



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia Purchase Order

Order Date: 03-03-2023

CORRECT ORDER NUMBER MUST APPEAR
ON ALL PACKAGES, INVOICES, AND
SHIPPING PAPERS. QUESTIONS
CONCERNING THIS ORDER SHOULD BE
DIRECTED TO THE DEPARTMENT
CONTACT.

Order Number:	CPO 0211 4001 GSD2300000014 1	Procurement Folder:	1149150
Document Name:	WV State Capitol North Stair Repair Project - Phase 2	Reason for Modification:	Award of CRFQ GSD2300000028
Document Description:	WV State Capitol North Stair Repair Project - Phase 2		
Procurement Type:	Central Purchase Order		
Buyer Name:	Melissa Pettrey		
Telephone:	(304) 558-0094		
Email:	melissa.k.pettrey@wv.gov		
Shipping Method:	Best Way	Effective Start Date:	
Free on Board:	FOB Dest, Freight Prepaid	Effective End Date:	

VENDOR	DEPARTMENT CONTACT																				
Vendor Customer Code: VS0000005904 Pullman Power LLC 10150 Old Columbia Rd Columbia MD 21046-1274 US Vendor Contact Phone: 410-850-7000 Extension: Discount Details: <table><thead><tr><th></th><th>Discount Allowed</th><th>Discount Percentage</th><th>Discount Days</th></tr></thead><tbody><tr><td>#1</td><td>No</td><td>0.0000</td><td>0</td></tr><tr><td>#2</td><td>Not Entered</td><td></td><td></td></tr><tr><td>#3</td><td>Not Entered</td><td></td><td></td></tr><tr><td>#4</td><td>Not Entered</td><td></td><td></td></tr></tbody></table>		Discount Allowed	Discount Percentage	Discount Days	#1	No	0.0000	0	#2	Not Entered			#3	Not Entered			#4	Not Entered			Requestor Name: Aaron M Armstrong Requestor Phone: 304-352-5492 Requestor Email: aaron.m.armstrong@wv.gov 23 FILE LOCATION
	Discount Allowed	Discount Percentage	Discount Days																		
#1	No	0.0000	0																		
#2	Not Entered																				
#3	Not Entered																				
#4	Not Entered																				

INVOICE TO	SHIP TO
DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION 103 MICHIGAN AVENUE CHARLESTON WV 25305 US	DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION BLDG 1 1900 KANAWHA BLVD E CHARLESTON WV 25305 US

3-6-23 BAR

Purchasing Division's File Copy

Total Order Amount: \$5,779,470.00

ENTERED

PURCHASING DIVISION AUTHORIZATION DATE: <i>[Signature]</i> 03/02/23 ELECTRONIC SIGNATURE ON FILE	ATTORNEY GENERAL APPROVAL AS TO FORM DATE: <i>[Signature]</i> ELECTRONIC SIGNATURE ON FILE	ENCUMBRANCE CERTIFICATION DATE: <i>[Signature]</i> 3-7-23 ELECTRONIC SIGNATURE ON FILE
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3/7/2023

Extended Description:

One-Time Purchase
Construction

The Vendor, Pullman Power LLC, of Columbia, MD, agrees to enter into this One-Time purchase with the WV Department of Administration, General Services Division ("Agency" and "Owner") for selective demolition (concrete slab removal), masonry repairs, installation of new waterproofing system, interior mechanical and finish renovations (House of Delegates Journal Room), and site restoration work per the specifications, project manual, drawings and terms and conditions, Addendum No. 1 dated 1/10/2023, Addendum No. 2 dated 1/23/2023, Addendum No. 3 dated 2/1/2023, and the Vendors submitted and accepted bid dated 2/8/2023 incorporated herein by reference and made a part hereof.

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
1	72151900	0.00000		0.000000	5779470.00
Service From	Service To	Manufacturer		Model No	
2023-03-01	2023-11-11				

Commodity Line Description: Base Bid & Alternate 1

Extended Description:

See attached Exhibit A Pricing Page

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
2	72151900	0.00000	SF	182.100000	0.00
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Unit Price - Overhead Concrete Patch Repairs

Extended Description:

GENERAL TERMS AND CONDITIONS:

1. CONTRACTUAL AGREEMENT: Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☐ **Term Contract**

Initial Contract Term: The Initial Contract Term will be for a period of _____. The Initial Contract Term becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and the Initial Contract Term ends on the effective end date also shown on the first page of this Contract.

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to _____ successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

☐ **Alternate Renewal Term** – This contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

☒ **Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within See General Construction Specifications, Item 10 days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within _____ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that:

☐ the contract will continue for _____ years;

☐ the contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's Office (Attorney General approval is as to form only).

☐ **One-Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☐ **Construction/Project Oversight:** This Contract becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and continues until the project for which the vendor is providing oversight is complete.

☐ **Other:** Contract Term specified in _____

4. AUTHORITY TO PROCEED: Vendor is authorized to begin performance of this contract on the date of encumbrance listed on the front page of the Award Document unless either the box for "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked in Section 3 above. If either "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked, Vendor must not begin work until it receives a separate notice to proceed from the State. The notice to proceed will then be incorporated into the Contract via change order to memorialize the official date that work commenced.

5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation/Award Document are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☐ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☐ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One-Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

☒ **Construction:** This Contract is for construction activity more fully defined in the specifications.

6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One-Time Purchase contract.

7. REQUIRED DOCUMENTS: All of the items checked in this section must be provided to the Purchasing Division by the Vendor as specified:

☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

☐☐☐☐

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:

☒ **Commercial General Liability Insurance** in at least an amount of: \$1,000,000.00 per occurrence.

☒ **Automobile Liability Insurance** in at least an amount of: \$1,000,000.00 per occurrence.

☐ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: _____ per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

☒ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: \$100,000.00 per occurrence.

☐ **Cyber Liability Insurance** in an amount of: _____ per occurrence.

☒ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

☐ **Pollution Insurance** in an amount of: _____ per occurrence.

☐ **Aircraft Liability** in an amount of: _____ per occurrence.

☐☐☐☐

9. WORKERS' COMPENSATION INSURANCE: Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. VENUE: All legal actions for damages brought by Vendor against the State shall be brought in the West Virginia Claims Commission. Other causes of action must be brought in the West Virginia court authorized by statute to exercise jurisdiction over it.

11. LIQUIDATED DAMAGES: This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

☐ _____ for _____.

☒ Liquidated Damages Contained in the Specifications.

☐ Liquidated Damages Are Not Included in this Contract.

12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

14. PAYMENT IN ARREARS: Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.

15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

20. TIME: Time is of the essence regarding all matters of time and performance in this Contract.

21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.

22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/default.html>.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

Revised 09/12/2022

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR NON-CONFLICT: Neither Vendor nor its representatives are permitted to have any interest, nor shall they acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

37. NO DEBT CERTIFICATION: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State. By submitting a bid, or entering into a contract with the State, Vendor is affirming that (1) for construction contracts, the Vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, neither the Vendor nor any related party owe a debt as defined above, and neither the Vendor nor any related party are in employer default as defined in the statute cited above unless the debt or employer default is permitted under the statute.

38. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

39. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

☒ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.division@wv.gov.

40. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process.
- c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
 1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
 2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a “substantial labor surplus area”, as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the Vendor must submit to the Agency a disclosure of interested parties prior to beginning work under this Contract. Additionally, the Vendor must submit a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-work interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

44. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

45. VOID CONTRACT CLAUSES: This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

46. ISRAEL BOYCOTT: Bidder understands and agrees that, pursuant to W. Va. Code § 5A-3-63, it is prohibited from engaging in a boycott of Israel during the term of this contract.

ADDITIONAL TERMS AND CONDITIONS (Construction Contracts Only)

1. CONTRACTOR'S LICENSE: Until June 15, 2021, West Virginia Code § 21-11-2, and after that date, § 30-42-2, requires that all persons desiring to perform contracting work in this state be licensed. The West Virginia Contractors Licensing Board is empowered to issue the contractor's license. Applications for a contractor's license may be made by contacting the West Virginia Contractor Licensing Board.

The apparent successful Vendor must furnish a copy of its contractor's license prior to the issuance of a contract award document.

2. BONDS: The following bonds must be submitted:

- a. BID BOND:** Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. **THE BID BOND MUST BE SUBMITTED WITH THE BID OR VENDOR'S BID WILL BE DISQUALIFIED.**
- b. PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of 100% of the contract. The performance bond must be received by the Purchasing Division prior to Contract award.
- c. LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.
- d. MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system if the work impacts an existing roof. The amount of the bond must be equal to the price associated with the percentage of the project impacting the roof. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of the bid bond must be of the same amount required of the Bid Bond and delivered with the bid.

3. DRUG-FREE WORKPLACE AFFIDAVIT: W. Va. Code § 21-1D-5 provides that any solicitation for a public improvement contract requires each Vendor that submits a bid for the work to submit an affidavit that the Vendor has a written plan for a drug-free workplace policy. If the affidavit is not submitted with the bid submission, the Purchasing Division shall promptly request by telephone and electronic mail that the low bidder and second low bidder provide the affidavit within one business day of the request. Failure to submit the affidavit within one business day of receiving the request shall result in disqualification of the bid. To comply with this law, Vendor should complete the enclosed drug-free workplace affidavit and submit the

same with its bid. Failure to submit the signed and notarized drugfree workplace affidavit or a similar affidavit that fully complies with the requirements of the applicable code, within one business day of being requested to do so shall result in disqualification of Vendor's bid. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

3.1. DRUG-FREE WORKPLACE POLICY: Pursuant to W. Va. Code § 21-1D-4, Vendor and its subcontractors must implement and maintain a written drug-free workplace policy that complies with said article. The awarding public authority shall cancel this contract if: (1) Vendor fails to implement and maintain a written drug-free workplace policy described in the preceding paragraph, (2) Vendor fails to provide information regarding implementation of its drug-free workplace policy at the request of the public authority; or (3) Vendor provides to the public authority false information regarding the contractor's drug-free workplace policy.

Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

4. DRUG FREE WORKPLACE REPORT: Pursuant to W. Va. Code § 21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. For contracts over \$25,000, the public authority shall be the West Virginia Purchasing Division. For contracts of \$25,000 or less, the public authority shall be the agency issuing the contract. The report shall include:

- (1) Information to show that the education and training service to the requirements of West Virginia Code § 21-1D-5 was provided;
- (2) The name of the laboratory certified by the United States Department of Health and Human Services or its successor that performs the drug tests;
- (3) The average number of employees in connection with the construction on the public improvement;
- (4) Drug test results for the following categories including the number of positive tests and the number of negative tests: (A) Pre-employment and new hires; (B) Reasonable suspicion; (C) Post-accident; and (D) Random.

Vendor should utilize the attached Certified Drug Free Workplace Report Coversheet when submitting the report required hereunder. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

5. AIA DOCUMENTS: All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the attached AIA documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein.

6. PROHIBITION AGAINST GENERAL CONDITIONS: Notwithstanding anything contained in the AIA Documents or the Supplementary Conditions, the State of West Virginia will not pay for general conditions, or winter conditions, or any other condition representing a delay in the contracts. The Vendor is expected to mitigate delay costs to the greatest extent possible and any costs associated with Delays must be specifically and concretely identified. The state will not consider an average daily rate multiplied by the number of days extended to be an acceptable charge.

7. GREEN BUILDINGS MINIMUM ENERGY STANDARDS: In accordance with § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July 1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

8. LOCAL LABOR MARKET HIRING REQUIREMENT: Pursuant to West Virginia Code §21-1C-1 et seq., Employers shall hire at least seventy-five percent of employees for public improvement construction projects from the local labor market, to be rounded off, with at least two employees from outside the local labor market permissible for each employer per project.

Any employer unable to employ the minimum number of employees from the local labor market shall inform the nearest office of Workforce West Virginia of the number of qualified employees needed and provide a job description of the positions to be filled.

If, within three business days following the placing of a job order, Workforce West Virginia is unable to refer any qualified job applicants to the employer or refers less qualified job applicants than the number requested, then Workforce West Virginia shall issue a waiver to the employer stating the unavailability of applicant and shall permit the employer to fill any positions covered by the waiver from outside the local labor market. The waiver shall be in writing and shall be issued within the prescribed three days. A waiver certificate shall be sent to both the employer for its permanent project records and to the public authority.

Any employer who violates this requirement is subject to a civil penalty of \$250 per each employee less than the required threshold of seventy-five percent per day of violation after receipt of a notice of violation.

Any employer that continues to violate any provision of this article more than fourteen calendar days after receipt of a notice of violation is subject to a civil penalty of \$500 per each employee less than the required threshold of seventy-five percent per day of violation.

The following terms used in this section have the meaning shown below.

(1) The term “construction project” means any construction, reconstruction, improvement, enlargement, painting, decorating or repair of any public improvement let to contract in an amount equal to or greater than \$500,000. The term “construction project” does not include temporary or emergency repairs;

(2) The term “employee” means any person hired or permitted to perform hourly work for wages by a person, firm or corporation in the construction industry; The term “employee” does not include: (i) Bona fide employees of a public authority or individuals engaged in making temporary or emergency repairs; (ii) Bona fide independent contractors; or (iii) Salaried supervisory personnel necessary to assure efficient execution of the employee's work;

(3) The term “employer” means any person, firm or corporation employing one or more employees on any public improvement and includes all contractors and subcontractors;

(4) The term “local labor market” means every county in West Virginia and any county outside of West Virginia if any portion of that county is within fifty miles of the border of West Virginia;

(5) The term “public improvement” includes the construction of all buildings, roads, highways, bridges, streets, alleys, sewers, ditches, sewage disposal plants, waterworks, airports and all other structures that may be let to contract by a public authority, excluding improvements funded, in whole or in part, by federal funds.

9. DAVIS-BACON AND RELATED ACT WAGE RATES:

☐ The work performed under this contract is federally funded in whole, or in part. Pursuant to _____, Vendors are required to pay applicable Davis-Bacon wage rates.

☒ The work performed under this contract is not subject to Davis-Bacon wage rates.

10. SUBCONTRACTOR LIST SUBMISSION: In accordance with W. Va. Code § 5-22-1, the apparent low bidder on a contract valued at more than \$250,000.00 for the construction, alteration, decoration, painting or improvement of a new or existing building or structure shall submit a list of all subcontractors who will perform more than \$25,000.00 of work on the project including labor and materials. (This section does not apply to any other construction projects, such as highway, mine reclamation, water or sewer projects.) The subcontractor list shall be provided to the Purchasing Division within one business day of the opening of bids for review.

If the apparent low bidder fails to submit the subcontractor list, the Purchasing Division shall promptly request by telephone and electronic mail that the low bidder and second low bidder provide the subcontractor list within one business day of the request. Failure to submit the subcontractor list within one business day of receiving the request shall result in disqualification of the bid.

If no subcontractors who will perform more than \$25,000.00 of work are to be used to complete the project, the apparent low bidder must make this clear on the subcontractor list, in the bid itself, or in response to the Purchasing Division's request for the subcontractor list.

a. Required Information. The subcontractor list must contain the following information:

- i. Bidder's name
- ii. Name of each subcontractor performing more than \$25,000 of work on the project.
- iii. The license number of each subcontractor, as required by W. Va. Code § 21-11-1 et. seq.
- iv. If applicable, a notation that no subcontractor will be used to perform more than \$25,000.00 of work. (This item iv. is not required if the vendor makes this clear in the bid itself or in documentation following the request for the subcontractor list.)

b. Subcontractor List Submission Form: The subcontractor list may be submitted in any form, including the attached form, as long as the required information noted above is included. If any information is missing from the bidder's subcontractor list submission, it may be obtained from other documents such as bids, emails, letters, etc. that accompany the subcontractor list submission.

c. Substitution of Subcontractor. Written approval must be obtained from the State Spending Unit before any subcontractor substitution is permitted. Substitutions are not permitted unless:

- i. The subcontractor listed in the original bid has filed for bankruptcy;
- ii. The subcontractor in the original bid has been debarred or suspended; or
- iii. The contractor certifies in writing that the subcontractor listed in the original bid fails, is unable, or refuses to perform his subcontract.

Subcontractor List Submission (Construction Contracts Only)

Bidder's Name: Pullman Power, LLC

☐ Check this box if no subcontractors will perform more than \$25,000.00 of work to complete the project.

Subcontractor Name	License Number if Required by W. Va. Code § 21-11-1 et. seq.
BrandSafway	
All Crane	
Wilson Restoration	
Easly & Rivers	
WQ Watters	
Smith Family of Workshops	
Dougherty	
Burdette Electric	
Raynes Company	
Matcon Diamond	

Attach additional pages if necessary

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Mark A. Bott, Branch Director

(Address) 140 S. Campus Drive, Imperial, PA 15126

(Phone Number) / (Fax Number) 412-505-0955 / 412-505-0958

(email address) mbott@pullman-services.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Pullman Power, LLC

(Company)



(Signature of Authorized Representative)

Mark A. Bott, Branch Director

(Printed Name and Title of Authorized Representative) (Date)

412-505-0955 / 412-505-0958

(Phone Number) (Fax Number)

mbott@pullman-services.com

(Email Address)

REQUEST FOR QUOTATION
WV State Capitol North Stair Repair Project, Phase 2

GENERAL CONSTRUCTION SPECIFICATIONS

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the WV Department of Administration, General Services Division (“Agency” and “Owner”) to establish a contract for selective demolition (concrete slab removal), masonry repairs, installation of new waterproofing system, interior mechanical and finish renovations (House of Delegates Journal Room), and site restoration work, all associated with the North Stairs of the Main WV Capitol Building.
2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions and in the Specifications Manual as defined below.
 - 2.1. **“Construction Services”** means masonry, waterproofing, and interior repairs of the Main Capitol Building North Stairs, as more fully described in these specifications and the Specifications/Project Manual.
 - 2.2. **“Pricing Page”** means the pages contained in wvOASIS, attached hereto as Exhibit A, upon which Vendor **shall** list its proposed price for the Construction Services. **Exhibit A is required to be submitted WITH THE BID; failure to do may result in disqualification of the bid.**
 - 2.3. **“Solicitation”** means the official notice of an opportunity to supply the State with Construction Services that is published by the Purchasing Division.
 - 2.4. **“Specifications/Project Manual”** means the American Institute of Architect forms, specifications, plans, drawings, and related documents developed by the architect, engineer, or Agency that provide detailed instructions on how the Construction Services are to be performed along with any American Institute of Architects documents (“AIA documents”) attached thereto.
3. **ORDER OF PRECEDENCE:** This General Construction Specifications document will have priority over, and supersede, anything contained in the Specifications/Project Manual.
4. **QUALIFICATIONS:** Vendor, or Vendor’s staff if requirements are inherently limited to individuals rather than corporate entities, shall have the following minimum qualifications:
 - 4.1. **Experience:** Vendor, or Vendor’s supervisory staff assigned to this project, must have successfully completed at least Three (3) projects that involved work similar to that described in the Specifications/Project Manual. Compliance with this experience requirement will be determined prior to contract award by the State through references provided by the Vendor upon request, through knowledge or

REQUEST FOR QUOTATION
WV State Capitol North Stair Repair Project, Phase 2

documentation of the Vendor's past projects, through confirmation of experience requirements from the architect assisting the State in this project, or some other method that the State determines to be acceptable. Vendor must provide any documentation requested by the State to assist in confirmation of compliance with this provision. References, documentation, or other information to confirm compliance with this experience requirement may be requested after bid opening and prior to contract award.

Qualifying projects must have been projects in which **historic** masonry work was successfully completed by the Vendor as a company.

5. **CONTRACT AWARD:** The Contract is intended to provide the Agency with a purchase price for the Construction Services. The Contract will be awarded to the lowest qualified responsible bidder meeting the required specifications. If the Pricing Pages contain alternates/add-ons, the Contract will be awarded based on the grand total of the base bid and any alternates/add-ons selected.
6. **SELECTION OF ALTERNATES:** Pursuant to W. Va. Code § 5-22-1(f), any solicitation of bids shall include no more than five alternates. Alternates, if accepted, shall be accepted in the order in which they are listed on the bid form. Any unaccepted alternate contained within a bid shall expire 90 days after the date of the opening of bids for review. Determination of the lowest qualified responsible bidder shall be based on the sum of the base bid and any alternates accepted. Alternate selection will be identified in the Purchase Order.
7. **PROGRESS PAYMENTS:** The Vendor will be paid in the form of periodic progress payments for work completed. Payment requests along with documentation supporting the request will be submitted to and reviewed by the Architect. If approved, the Architect will communicate approval to the Owner and Owner will process payment. The Owner reserves the right to withhold liquidated damages from progress payments. Progress payments will be made no more than monthly.

Approval and payment of progress payments will be based on Contractor's submission of a payment allocation schedule which allocates the entire contract sum to payment milestones. Architect and Owner will review the payment allocation and may mandate changes that they believe are necessary.
8. **RETAINAGE:** Agency is entitled to withhold Ten Percent (10%) from each progress payment made as retainage. Agency will partially release retainage upon certification of substantial completion by the Architect in accordance with this Contract but will continue to retain amounts sufficient to cover activities needed to reach final completion.
9. **PERFORMANCE:** Vendor shall perform the Construction Services in accordance with this document and the Specifications/Project Manual.

REQUEST FOR QUOTATION
WV State Capitol North Stair Repair Project, Phase 2

- 10. SUBSTANTIAL AND FINAL COMPLETION:** Vendor shall achieve **Substantial Completion by Two Hundred and Seventy (270) calendar days** and **Final Completion by Two Hundred and Eight-Five (285) calendar days after the Contract start date established by the issuance of the Notice to Proceed.** Failure to meet the deadlines established herein, unless extended by change order authorizing additional time free of liquidated damages, will result in liquidated damages being applied.
- 10.1 Alternate Bid Accepted:** If the Agency accepts and awards the Alternate Bid, Vendor shall achieve Substantial Completion by Two Hundred and Forty (240) calendar days and Final Completion by Two Hundred and Fifty-Five (255) calendar days after the Contract start date established by the issuance of the Notice to Proceed. Failure to meet the deadlines established herein, unless extended by change order authorizing additional time free of liquidated damages, will result in liquidated damages being applied
- 10.2 Notice to Proceed:** Agency will issue Notice to Proceed, establishing the Contract Start Date, immediately following award of the Contract, as quickly as one (1) business day after Contract Award Date.
- 11. LIQUIDATED DAMAGES:** Vendor shall pay Liquidated Damages in the amount of \$5,000.00 per calendar day for every calendar day beyond the date for Final Completion, as established by the issuance of the Notice to Proceed, for which Final Completion has not been achieved.
- 12. PROJECT PLANS:** Copies of the project plans can be obtained by contacting the entity identified below.

Hard Copies of the Project Manual and Drawings may be obtained from:

Charleston Blueprint
1203 Virginia Street East
Charleston, WV 25301
Phone: 304-343-1063
Email: print@charlestonblueprint.com

Copies of project plans can be examined at the following locations

Kanawha Valley Builders Association
1627 Bigley Avenue
Charleston, WV 25302
Phone: 304-342-7141
Fax: 304-343-8014
Email: kvba@kvba.com

REQUEST FOR QUOTATION
WV State Capitol North Stair Repair Project, Phase 2

Contractors Association of West Virginia

2114 Kanawha Boulevard East
Charleston, West Virginia 25311
Phone: 304-342-1166
Fax: 304-342-1074
Email: cawv@cawv.org

Construction Employers Association NCWV

2794 White Hall Blvd
White Hall, WV 26554
Phone: 304-367-1290
Fax: 304-367-0126
Email: ceaplanroom@ceawv.com

Parkersburg Marietta Contractors Association

2905 Emerson Avenue
Parkersburg, WV 26104
Phone: 304-485-6485
Fax: 304-428-7622
Email: pmcadesk@gmail.com

Reed Construction Data

30 Technology Parkway South
Suite 100
Norcross, GA 30092
Phone: 800-364-2059
Fax: 800-317-0870
Email: projectinquiries@isqft.com

Pennsylvania Builders Exchange

1813 N. Franklin Street
Pittsburgh, PA 15233
Phone: 412-922-4200
Fax: 412-928-9406
Email: karen@pbe.org

Dodge Data and Analytics

4300 Beltway Place, Suite 180
Arlington, TX 76018-5253
Phone: 800-393-6343
Email: support@construction.com

REQUEST FOR QUOTATION
WV State Capitol North Stair Repair Project, Phase 2

Ohio Valley Construction Employer's Council

21 Armory Drive
Wheeling, WV 26003
Phone: (304)242-0520
Fax: (304)242-7261
Email: ovcec@ovcec.com

- 13. SUBSTITUTIONS:** Any substitution requests must be submitted in accordance with the official question and answer period described in the INSTRUCTIONS TO VENDORS SUBMITTING BIDS, Paragraph 4. Vendor Question Deadline.
- 14. FACILITIES ACCESS:** Performance of Contract Services may require access cards and/or keys to gain entrance to Agency's facilities. In the event that access cards and/or keys are required:
 - 14.1.** Vendors must identify principal service personnel which will be issued access cards and/or keys to perform service.
 - 14.2.** Vendor will be responsible for controlling cards and keys and will pay a replacement fee if the cards or keys become lost or stolen.
 - 14.3.** Vendor shall notify the Agency immediately of any lost, stolen, or missing card or key.
 - 14.4.** Anyone performing under this Contract will be subject to Agency's security protocol and procedures.
 - 14.5.** Vendor shall inform all staff of Agency's security protocol and procedures.

REQUEST FOR QUOTATION
WV State Capitol North Stair Repair Project, Phase 2
CRFQ GSD2300000028

15. MISCELLANEOUS:

- 15.1. Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Mark A. Bott
Telephone Number: 412-505-0955
Fax Number: 412-505-0958
Email Address: mbott@pullman-services.com

- 15.2. Owner's Representative:** Owner's representative for notice purposes is

Name: Aaron Armstrong
Telephone Number: (304) 352-5535
Fax Number: (304) 558-1475
Email Address: Aaron.M.Armstrong@wv.gov

- 16. Initial Decision Maker:** WDP & Associates, the Architect, shall serve as the Initial Decision Maker in matters relating to this contract.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote
Construction

Proc Folder: 1149150

Doc Description: WV State Capitol North Stair Repair Project - Phase 2

Reason for Modification:

Addendum No. 3

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2023-02-01	2023-02-08 13:30	CRFQ 0211 GSD2300000028	4

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State :

Country :

Zip :

Principal Contact :

Vendor Contact Phone:

Extension:

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

Vendor
Signature X

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

SOLICITATION NUMBER: CRFQ GSD2300000028
Addendum Number: 3

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☐ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☒ Attachment of vendor questions and responses
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☒ Other

Description of Modification to Solicitation:

Addendum is issued to publish and distribute the following information to the Vendor community.

1. To publish responses to Vendor Technical Questions received prior to Friday, January 27, 2023, per Attachment A.
2. To inform Vendors that revised drawings (as a result of responses to Vendor Technical Questions) will be available for Vendors to view at plans houses.
3. To provide report from Construction Materials Consultants, Inc., of "Petrographic Examinations of Indiana Limestone," per Attachment A.

No other changes.



Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote
Construction

Proc Folder: 1149150

Doc Description: WV State Capitol North Stair Repair Project - Phase 2

Reason for Modification:

Addendum No. 2

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2023-01-20	2023-02-08 13:30	CRFQ 0211 GSD2300000028	3

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State :

Country :

Zip :

Principal Contact :

Vendor Contact Phone:

Extension:

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

Vendor
Signature X

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

SOLICITATION NUMBER: CRFQ GSD2300000028

Addendum Number: 2

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☒ Modify bid opening date and time
- ☒ Modify specifications of product or service being sought
- ☒ Attachment of vendor questions and responses
- ☐ Attachment of pre-bid sign-in sheet
- ☒ Correction of error
- ☒ Other

Description of Modification to Solicitation:

Addendum is issued to publish and distribute the following information to the Vendor community.

1. To extend bid opening to Wednesday, February 8, 2023 @ 1:30pm.
2. To modify and add specifications and drawings, per Attachment A.
3. To provide responses to Vendor Technical Questions, per Attachment A.
4. To revise the Pricing Page, per Attachment A.
5. To establish a non-mandatory site visit(s), per response to Question 17.
6. To establish a secondary Technical Question period with a deadline of Friday, January 27th.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

By this Addendum, the Agency is adding two additional Bid Alternates with the intent of expediting completion of the project, per revised Project Manual Sections 01 20 00 and 01 32 13, revised General Construction Specifications, and Revised Pricing Page, all attached hereto.

Exhibit A - Pricing Page

Project Manual Section 01 20 00		Base Bid Price	Unit of Measure	Quantity	Base Bid Amount
BASE BID ITEM					
All Work included in Base Bid, per Section 01 20 00, "Measurement and Payment," of the Project Manual					
2.4 A			Lump Sum	1	A
UNIT PRICE ITEMS					
Unit Price Items, per Section 01 20 00, "Measurement and Payment," of the Project Manual					
2.4 B		Unit Price	Unit of Measure	Quantity	Unit Price Amount
2.4 C			Linear Inches	330	B
2.4 D			Square Feet	48	C
2.4 E			Unit	7	D
2.4 F			Linear Inches	400	E
2.4 G			Cubic Inches	20,000	F
2.4 H			Linear Feet	2,800	G
2.4 I			Cubic Feet	12,000	H
2.4 J			Cubic Inches	120	I
2.4 K			Cubic Feet	25	J
2.4 L			Square Feet	20	K
2.4 M			Square Feet	205	L
2.4 N			Square Feet	10	M
2.4 O			Linear Inches	250	N
2.4 P			Square Feet	3,250	O
2.4 Q			Square Feet	20	P
2.4 R			Square Feet	150	Q
			Square Feet	200	R
*TOTAL BASE BID AMOUNT (A+B+C+D+E+F+G+H+I+J+K+L+N+O+P+Q+R) =					
BID ALTERNATE 1					
All Work included in the Bid Alternate, per Section 01 20 00, "Measurement and Payment," of the Project Manual					
2.5		Alternate Bid Price	Unit of Measure	Quantity	Alternate Bid Amount
			Lump Sum	1	S
BID ALTERNATE 1 UNIT PRICE ITEM					
Unit Price Items, per Section 01 20 00, "Measurement and Payment," of the Project Manual					
2.5 A 3		Unit Price	Unit of Measure	Quantity	Alternate Bid Unit Price Amount
			Square Feet	300	T
TOTAL BID ALTERNATE 1 AMOUNT (S+T) =					
BID ALTERNATE 2					
To have work Substantially Complete within Two Hundred and Ten (210) Calendar Days					
2.5 B		Alternate Bid Price	Unit of Measure	Quantity	Total Bid Alternate 2 Amount
			Lump Sum	1	V
BID ALTERNATE 3					
To have work Substantially Complete within One Hundred and Eighty (180) Calendar Days					
2.5 C		Alternate Bid Price	Unit of Measure	Quantity	Total Bid Alternate 3 Amount
			Lump Sum	1	W
* If entering bid in wv OASIS, enter the sum of Total Base Bid Amount on Commodity Line 1					



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote
Construction

Proc Folder: 1149150

Doc Description: WV State Capitol North Stair Repair Project - Phase 2

Reason for Modification:

Addendum No.1

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2023-01-10	2023-02-01 13:30	CRFQ 0211 GSD2300000028	2

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State :

Country :

Zip :

Principal Contact :

Vendor Contact Phone:

Extension:

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

**Vendor
Signature X**

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

SOLICITATION NUMBER: CRFQ GSD2300000028

Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☐ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☐ Attachment of vendor questions and responses
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☐ Other

Description of Modification to Solicitation:

Addendum is issued to publish and distribute the following information to the Vendor community.

1. To publish the pre-bid sign-in sheet, per Attachment A.

No other changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

Vendors Only

Solicitation Number: CRFQ GSD2300000028

Date of Pre-Bid Meeting: 1/10/2023

Location of Prebid Meeting: Bldg. 6 3rd Flr. Conf. Rm

Pre-Bid Sign-In Sheet

Please Note:

Vendors must sign-in on this sheet to verify attendance at the Pre-Bid meeting. Failure to legibly sign in may be grounds for declaring a vendor ineligible to bid. For further verification, please also provide a business card if possible.

Firm Represented:*	Rep Name (Printed):	Firm Address:	Telephone #:	Fax #:	Email:
METRO MASONRY	SHAWIE WATKINS	5033A St Rt 10 FARROWVILLE, WV 25804	304 360 5992		Shawie@metro masonrywv.com
Pullman	MARK BOTT	140 S. CAMPUS DRIVE IMPERIAL, PA 15126	412 505 0955	412 505 0958	mbott@pullman- services.com
S&P Construction	Scott Cunningham	281 Smiley Dr. St Albans, WV 25177	304-532 3659		estimates@ S&Pgc.com
Brand Safeway	Jason	528 28th Street Huntington WV 25701	740-322-0547		jason@brandtagmy.com
Brand Safeway	Tim Highley	528 28th Street Huntington WV 25701	606 330-8994		HighleyCbrandtagmy.com
Swope Construction	Amy Price	100 Price Industrial Lane Huntington, WV 25705	304- 525-9958		Bid@Swopeco.com

*One Vendor Per Representative - No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

Vendors Only

Pre-Bid Sign-In Sheet

Solicitation Number: CRFQ GSD2300000028

Date of Pre-Bid Meeting: 1/10/2023

Location of Prebid Meeting: Bldg. 6 3rd Flr. Conf. Rm

Please Note:

Vendors must sign-in on this sheet to verify attendance at the Pre-Bid meeting. Failure to legibly sign in may be grounds for declaring a vendor ineligible to bid. For further verification, please also provide a business card if possible.

Firm Represented:*	Rep Name (Printed):	Firm Address:	Telephone #:	Fax #:	Email:
Buckeye Construction + Restoration LTD	Lane Bunnell	405 Wedderburn Rd Wederford, OH 45786	740-749-5733		lbunne11@brenco.com
Wilson Restoration	Michael Lowe	4520 New Texas Rd. Pgh, PA 15239	412-606-8801	412-793-1401	mikelowe@wilsonrestoration.net
Persinger + Associates	Will Bowman	1509 Hanford St Charleston, WV 25311	304-344 5200		Will@persingerandassociates.com
Graciano Corp-	Dan McIntyre	209 Sigma Dr Pittsburgh, PA 15238	412-963-8400 c 724-612-4317	412-963-6284	dmcintyrejr@gmail.com
Easley & River	Tim Norris	1 South Washington St. Ravenswood WV	304-376-7463		tnorris@easleyandrivers.com
Easley & River	Dustin Briscoe	1 South Washington Ravenswood WV	304 435-1005		DBriscoe@easleyandrivers.com

*One Vendor Per Representative - No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ GSD2300000028

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- ☒ Addendum No. 1
- ☒ Addendum No. 2
- ☒ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5

- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Pullman Power, LLC
Company


Authorized Signature

02.08.23
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Exhibit A - Pricing Page

BASE BID ITEM	Project Manual Section 01 20 00 Article #	Base Bid Price	Unit of Measure	Quantity	Base Bid Amount
All Work included in Base Bid, per Section 01 20 00, "Measurement and Payment," of the Project Manual	2.4 A	\$5,182,920.00	Lump Sum	1	\$5,182,920.00
UNIT PRICE ITEMS					
Unit Price Items, per Section 01 20 00, "Measurement and Payment," of the Project Manual	Project Manual Section 01 20 00 Article #	Unit Price	Unit of Measure	Quantity	Unit Price Amount
Unit Price 1: Concrete Crack Repairs	2.4 B	\$6.45	Linear Inches	330	\$2,128.50
Unit Price 2: Concrete Patch Repairs	2.4 C	\$281.45	Square Feet	48	\$13,509.60
Unit Price 3: Limestone Stair Tread Replacement	2.4 D	\$1,533.05	Unit	7	\$10,731.35
Unit Price 4: Limestone Crack Repair	2.4 E	\$101.75	Linear Inches	400	\$40,700.00
Unit Price 5: Limestone Patching	2.4 F	\$11.15	Cubic Inches	20,000	\$223,000.00
Unit Price 6: Limestone Repointing	2.4 G	\$27.87	Linear Feet	2,800	\$78,036.00
Unit Price 7: Limestone Dutchman Repair	2.4 H	\$20.90	Cubic Inches	12,000	\$250,800.00
Unit Price 8: Granite Patching	2.4 I	\$58.55	Cubic Inches	120	\$7,026.00
Unit Price 9: Granite Dutchman Repair	2.4 J	\$209.05	Cubic Inches	25	\$5,226.25
Unit Price 10: Brick Masonry Replacement	2.4 K	\$891.95	Square Feet	20	\$17,839.00
Unit Price 11: Brick Masonry Repointing	2.4 L	\$101.75	Square Feet	205	\$20,858.75
Unit Price 12: Structural Steel Plate Repair	2.4 M	\$450.00	Square Feet	10	\$4,500.00
Unit Price 13: Structural Steel Weld Repair	2.4 N	\$22.85	Linear Inches	250	\$5,712.50
Unit Price 14: Structural Steel Zinc Rich Primer	2.4 O	\$34.85	Square Feet	3,250	\$113,262.50
Unit Price 15: Hazardous Materials (Asbestos)	2.4 P	\$72.50	Square Feet	20	\$1,450.00
Unit Price 16: Hazardous Materials (Lead Based Paint)	2.4 Q	\$16.75	Square Feet	150	\$2,512.50
Unit Price 17: Hazardous Materials (Mold)	2.4 R	\$53.00	Square Feet	200	\$10,600.00
*TOTAL BASE BID AMOUNT (A+B+C+D+E+F+G+H+I+J+K+L+N+O+P+Q+R) =					\$5,990,812.95
BID ALTERNATE 1	Project Manual Section 01 20 00 Article #	Alternate Bid Price	Unit of Measure	Quantity	Alternate Bid Amount
All Work included in the Bid Alternate, per Section 01 20 00, "Measurement and Payment," of the Project Manual	2.5	\$5,724,840.00	Lump Sum	1	\$5,724,840.00
BID ALTERNATE 1 UNIT PRICE ITEM					
Unit Price Items, per Section 01 20 00, "Measurement and Payment," of the Project Manual	Project Manual Section 01 20 00 Article #	Unit Price	Unit of Measure	Quantity	Alternate Bid Unit Price Amount
Unit Price 1: Overhead Concrete Patch Repairs	2.5 A 3	\$182.10	Square Feet	300	\$54,630.00
TOTAL BID ALTERNATE 1 AMOUNT (S+T) =					\$5,779,470.00
BID ALTERNATE 2	Project Manual Section 01 20 00 Article #	Alternate Bid Price	Unit of Measure	Quantity	Total Bid Alternate Amount
To have work Substantially Complete within Two Hundred and Ten (210) Calendar Days	2.5 B		Lump Sum	1	No Bid
BID ALTERNATE 3					
Project Manual Section 01 20 00 Article #	Alternate Bid Price	Unit of Measure	Quantity	Total Bid Alternate Amount	
To have work Substantially Complete within One Hundred and Eighty (180) Calendar Days	2.5 C		Lump Sum	1	No Bid
* If entering bid in vvwOASIS, enter the sum of Total Base Bid Amount on Commodity Line 1					

WEST VIRGINIA STATE CAPITOL BUILDING

NORTH STAIR REPAIR - PHASE II

CONSTRUCTION DOCUMENTS

CHARLESTON, WEST VIRGINIA

SUBMISSION DATE 12/22/2022

CODE ANALYSIS

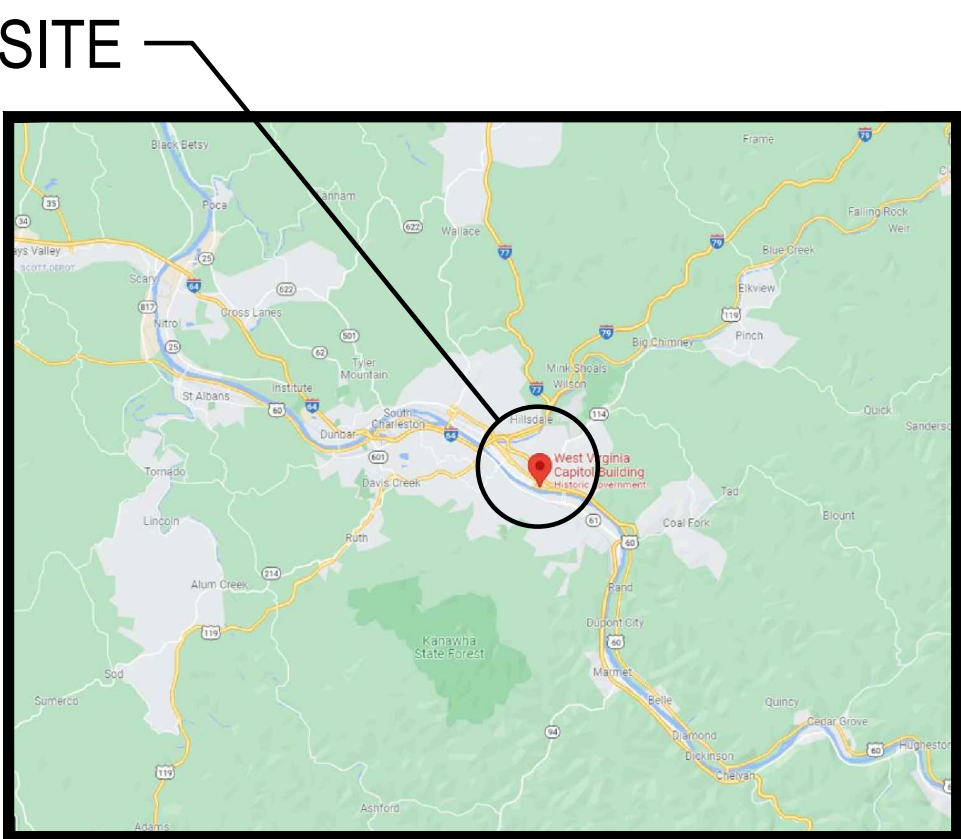
- APPLICABLE CODES:
 - 2018 WEST VIRGINIA STATE BUILDING CODE
 - 2018 INTERNATIONAL BUILDING CODE
 - 2018 INTERNATIONAL EXISTING BUILDING CODE
 - 2018 INTERNATIONAL PLUMBING CODE
 - 2018 INTERNATIONAL MECHANICAL CODE
 - 2017 ICC/ANSI A117.1 AMERICAN NATIONS STANDARD FOR ACCESSIBILITY & USABLE BUILDINGS & FACILITIES
 - 2018 NFPA LIFE SAFETY CODE
 - 2022 NATIONAL ELECTRICAL CODE, NFPA 70
- ORIGINAL CONSTRUCTION: 1932
- EXISTING USE GROUPS: A-2, A-3, B, S-1
- EXISTING CONSTRUCTION TYPE: 1A (NON-SPRINKLERED)

ABBREVIATIONS

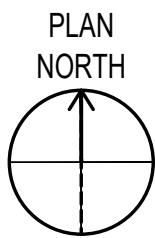
"	INCHES
'	FEET
°	DEGREES
±	APPROXIMATELY
Ø	DIAMETER
ACI	AMERICAL CONCRETE INSTITUTE
AHU	AIR HANDLER UNIT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	ASTM INTERNATIONAL
B.B.	BOTTOM BAR
BLDG	BUILDING
CL	CENTERLINE
CLR.	CLEAR COVER
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSP	CONCRETE SURFACE PROFILE NUMBER
DEG	DEGREE(S)
DEMO	DEMOLITION
DET.	DETAIL
EA.	EACH
ELEV.	ELEVATION
EQ.	EQUAL
EX.	EXISTING
F.F.	FINISH FLOOR
GA.	GAUGE
GSD	WV GENERAL SERVICES DIVISION
HDG	HOT-DIP GALVANIZED
IN.	INCH
INV.	INVERT
KIP	KILOPOUND (1000 POUNDS)
MAX	MAXIMUM
MIN	MINIMUM
NIS	NOT IN SCOPE
NTS	NOT TO SCALE
O.C.	ON CENTER
OPP.	OPPOSITE HAND
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RCP	REFLECTED CEILING PLAN
SIM.	SIMILAR
SSTL	STAINLESS STEEL
STD.	STANDARD
T.B.	TOP BAR
T.O.P.	TOP OF PAVEMENT
T.O.S.	TOP OF SLAB
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
WWF	WELDED WIRE FABRIC

SHEET #	SHEET TITLE
T0.01	TITLE SHEET
T1.01	GROUND FLOOR EXISTING EGRESS PLAN
T1.02	FIRST FLOOR EXISTING EGRESS PLAN
T2.01	FIRST FLOOR TEMPORARY EGRESS PLAN
G0.01	GENERAL NOTES
G0.02	REPAIR SCHEDULE
G1.01	SITE ACCESS PLAN
G1.02	SITE PLAN
G1.03	GROUND FLOOR PROTECTION PLAN
G1.04	FIRST FLOOR PROTECTION PLAN
G2.01	TEMPORARY PROTECTION ELEVATIONS
D1.01	GROUND FLOOR DEMOLITION PLAN
D1.02	STAIR FRAMING DEMOLITION PLAN
D1.02AL	BID ALTERNATE 1 STAIR FRAMING DEMOLITION PLAN
D1.03	NORTH STAIR DEMOLITION PLAN
D2.01	ENLARGED VIEWS AT SIDE STAIRS
D3.01	DEMOLITION SECTION
D3.01AL	ALTERNATE DEMOLITION SECTION
D5.01	DEMOLITION DETAILS
D5.02	DEMOLITION DETAILS
D5.03	DEMOLITION DETAILS
S1.01	PLATFORM REPAIR PLAN
S1.02	NORTH STAIRS FRAMING PLAN
S1.03W	NORTH STAIRS FRAMING PLAN
S1.04W	NORTH STAIRS FRAMING PLAN
S1.04AL	BID ALTERNATE 1 FRAMING PLAN
S2.01	PLATFORM INTERIOR ELEVATION
S2.02	PLATFORM FRAMING REPAIRS
S3.01	STRUCTURAL SECTIONS
S5.01	STRUCTURAL REPAIR DETAILS
S5.02	STRUCTURAL REPAIR DETAILS
S5.03	STRUCTURAL REPAIR DETAILS
S5.04	STRUCTURAL REPAIR DETAILS
S5.05	STRUCTURAL REPAIR DETAILS
S5.06	STRUCTURAL REPAIR DETAILS
A1.01	GROUND FLOOR PLANS
A1.11W	LOWER WEST STAIR PLAN
A1.11E	LOWER EAST STAIR PLAN
A1.12	UPPER STAIR AND PORTICO PLAN
A1.13	PLATFORM PAVER PLAN
A2.01	EAST CHEEKWALL ELEVATIONS
A2.02	WEST CHEEKWALL ELEVATIONS
A2.03	PLATFORM ELEVATIONS
A2.04	INTERIOR ELEVATIONS
A3.01	SECTIONS
A5.01	REPAIR DETAILS
A5.02	REPAIR DETAILS
A5.03	REPAIR DETAILS

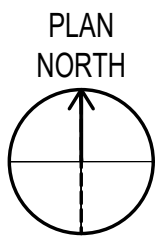
SHEET #	SHEET TITLE
A5.04	REPAIR DETAILS
A5.05	REPAIR DETAILS
A5.06	REPAIR DETAILS
A5.07	STONE REPAIR DETAILS
A5.10	INTERIOR FRAMING DETAILS
A5.11	INTERIOR FRAMING DETAILS
A5.12	INTERIOR FRAMING DETAILS
A5.20	COLUMN REPAIRS
A5.21	COLUMN REPAIRS
A5.22	COLUMN REPAIRS
R1.01	STONE LAYOUT OVERALL (FOR REFERENCE ONLY)
R1.01SW	STONE LAYOUT SOUTHWEST (FOR REFERENCE ONLY)
R1.01NW	STONE LAYOUT NORTHWEST (FOR REFERENCE ONLY)
R1.01SE	STONE LAYOUT SOUTHEAST (FOR REFERENCE ONLY)
R1.01NE	STONE LAYOUT NORTHEAST (FOR REFERENCE ONLY)
R1.02	EGRESS STAIR PLANS (FOR REFERENCE ONLY)
R5.01	CONSTRUCTION BARRIERS (FOR REFERENCE ONLY)
R5.02	SITE DETAILS (FOR REFERENCE ONLY)
R5.03	EGRESS STAIR SECTIONS (FOR REFERENCE ONLY)
R5.04	EGRESS STAIR & HANDRAIL (FOR REFERENCE ONLY)



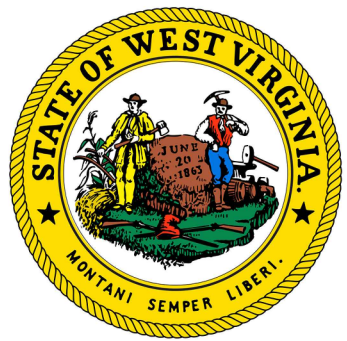
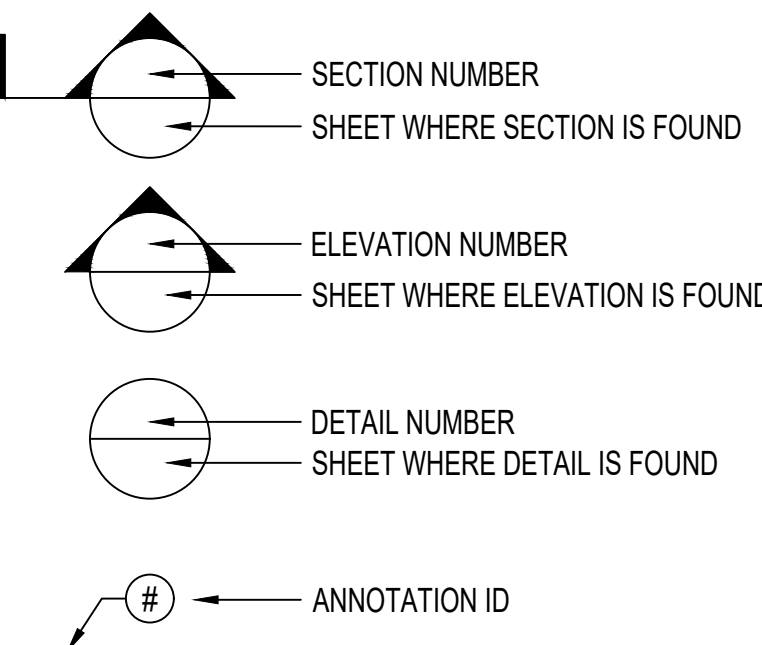
VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



SYMBOLS



WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS

SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME
TITLE SHEET

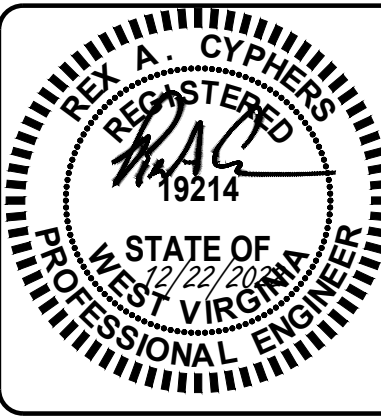
SHEET NUMBER
T0.01

KEY LEGEND

←-X-X-→ TRAVEL DISTANCE



WDP
& Associates
Consulting Engineers
33 Summers Hospital Road
Hinton, WV 25951
Office: 304.660.0400
www.wdpa.com



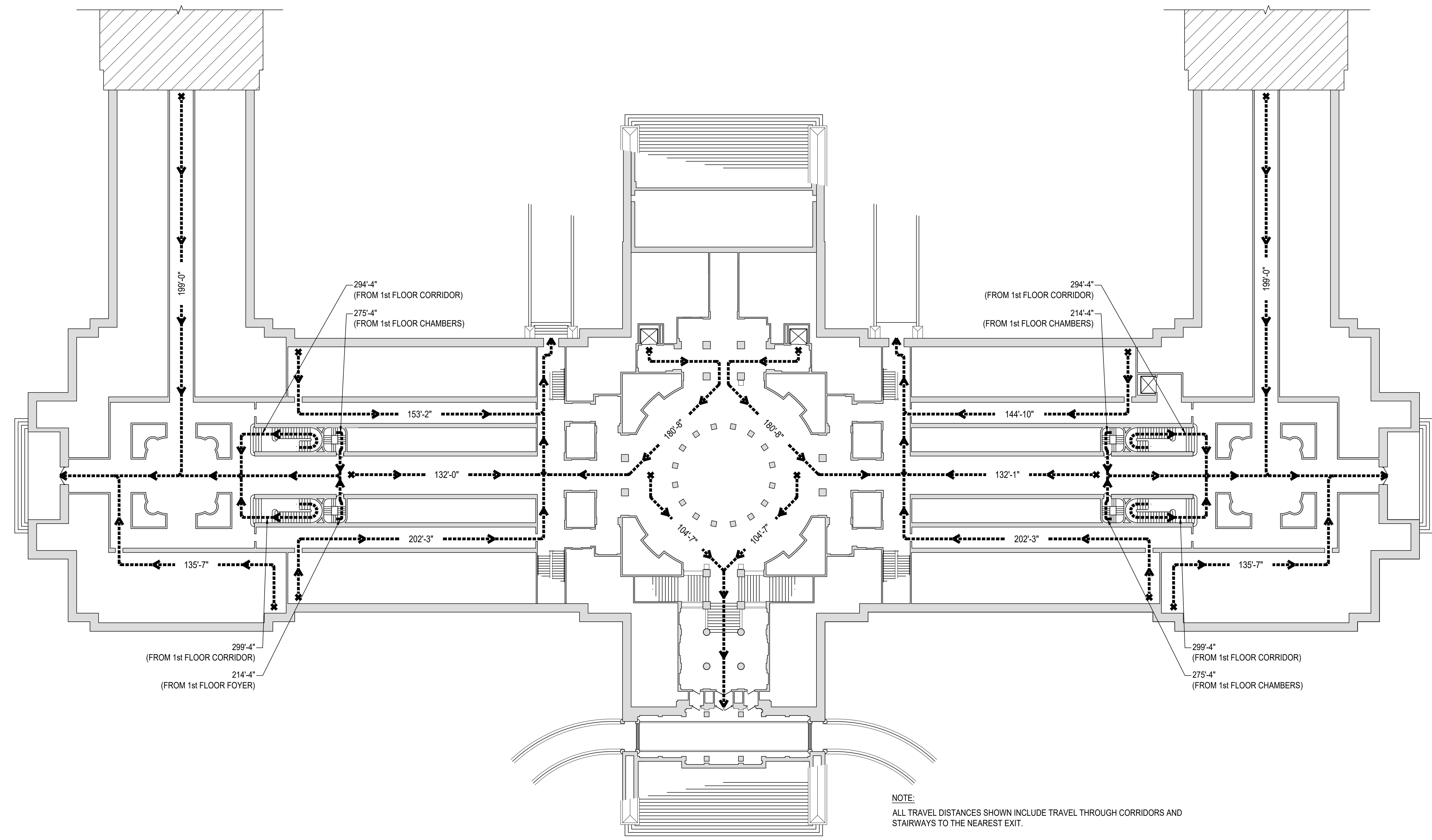
WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS	

SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME
**GRD FLOOR
EXISTING
EGRESS PLAN**

SHEET NUMBER
T1.01



1
T1.01

GROUND FLOOR EXISTING EGRESS PLAN
SCALE: 1" = 20'-0"

PLAN
NORTH

KEY LEGEND

← "X-X" → TRAVEL DISTANCE



WDP

& Associates

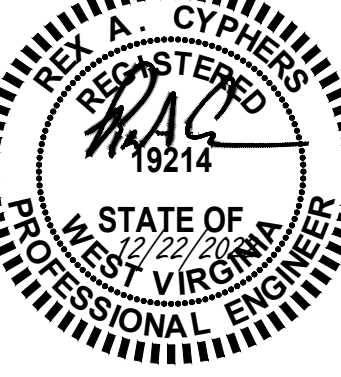
Consulting Engineers

33 Summers Hospital Road

Hinton, WV 25951

Office: 304.660.0400

www.wdpa.com



WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS

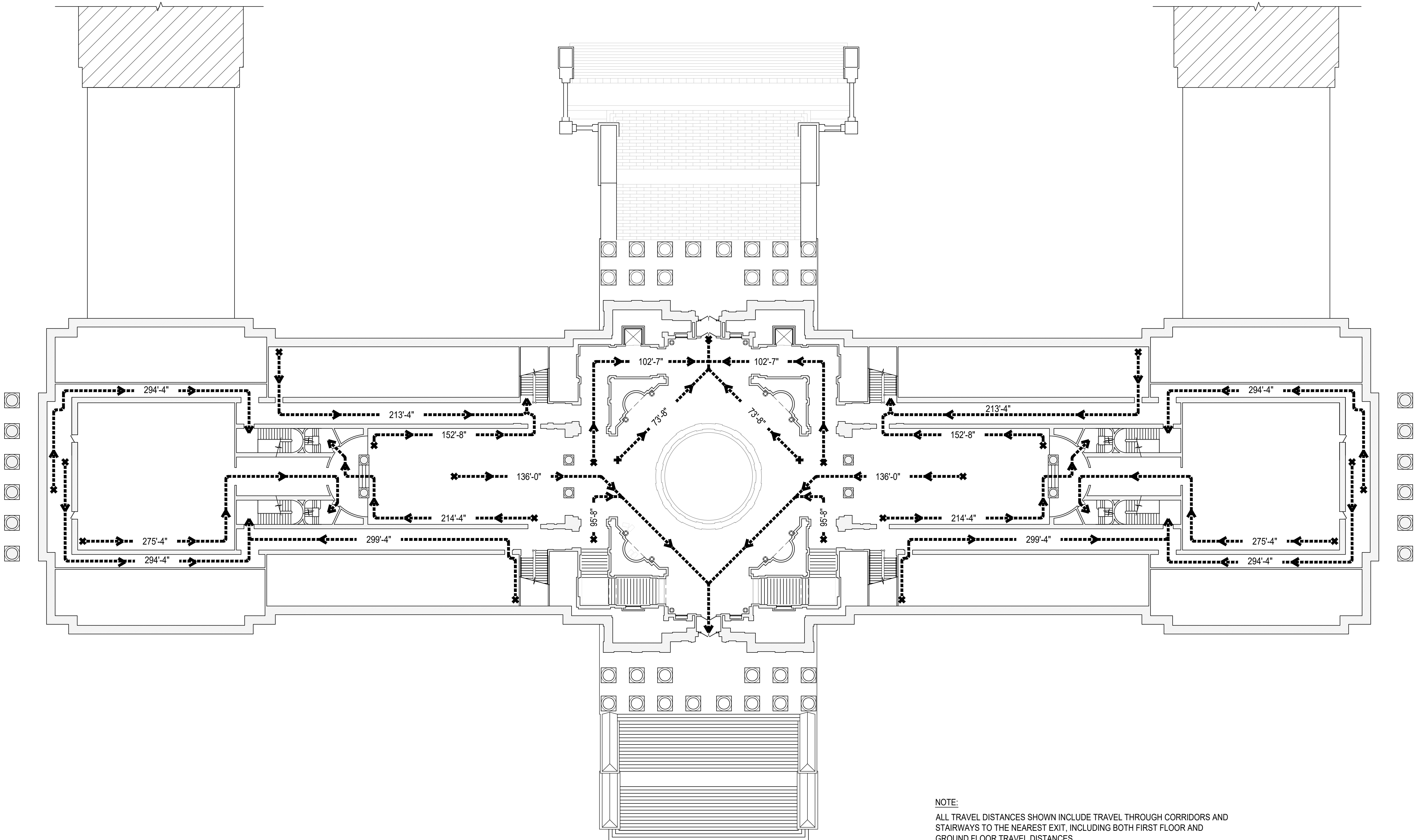
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME

FIRST FLOOR
EXISTING
EGRESS PLAN

SHEET NUMBER

T1.02



NOTE:
ALL TRAVEL DISTANCES SHOWN INCLUDE TRAVEL THROUGH CORRIDORS AND STAIRWAYS TO THE NEAREST EXIT, INCLUDING BOTH FIRST FLOOR AND GROUND FLOOR TRAVEL DISTANCES.

1

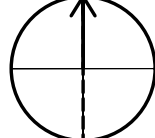
T1.02

FIRST FLOOR EXISTING EGRESS PLAN



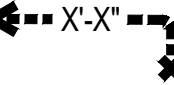
SCALE: 1" = 20'-0"

PLAN

NORTH



KEY LEGEND

	GROUP A-3 OCCUPANCY
	GROUP B OCCUPANCY
	TRAVEL DISTANCE

ANNOTATION LEGEND

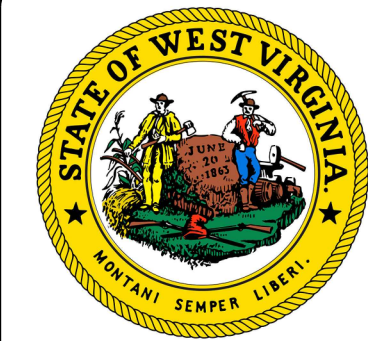
① NORTH ENTRANCE TO BE CLOSED FOR DURATION OF THE WORK.

② SOUTH ENTRANCE TO REMAIN OPEN FOR DURATION OF INTERIOR WORK.

SHEET NOTES

1. ALL TRAVEL DISTANCES SHOWN INCLUDE TRAVEL THROUGH CORRIDORS AND STAIRWAYS TO THE EXIT DOORWAY. TO INCLUDE BOTH FIRST FLOOR AND GROUND FLOOR TRAVEL DISTANCES.

2. OCCUPANCY IN ROTUNDA AND FOYERS SHALL BE LIMITED TO 225 OCCUPANTS DURING THE WORK.



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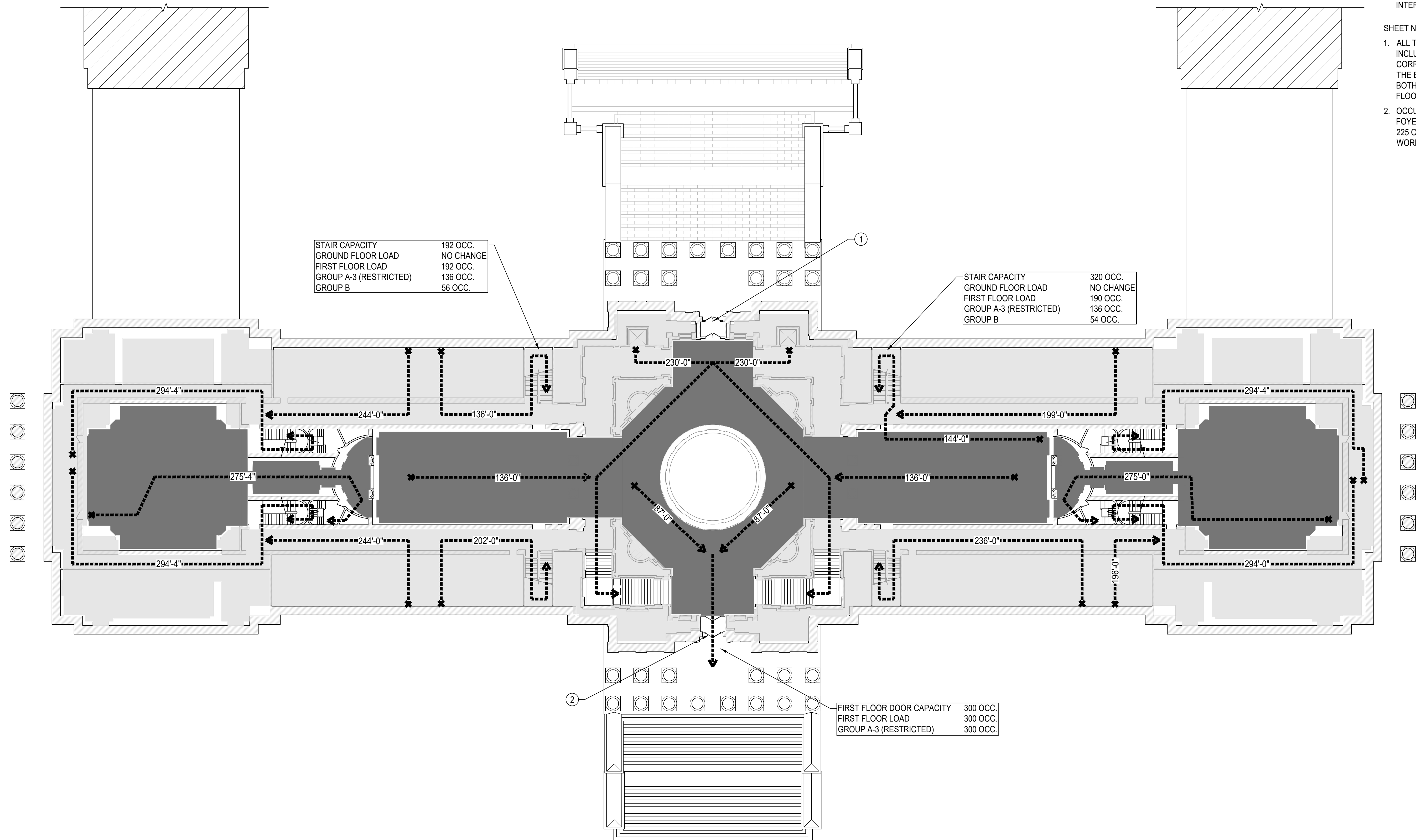
WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II
FIRST FLOOR EXISTING EGRESS PLAN

REVISIONS

SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME
FIRST FLOOR
TEMPORARY
EGRESS PLAN

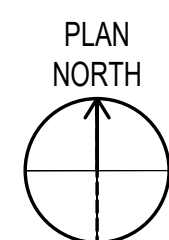
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T2.01



1
T2.01

FIRST FLOOR TEMPORARY EGRESS PLAN

SCALE: 1" = 20'-0"



BACKGROUND

1. THE WEST VIRGINIA STATE CAPITOL BUILDING WAS BUILT OVER AN EIGHT-YEAR PERIOD, COMPLETING CONSTRUCTION ON JUNE 20, 1932. THE BUILDING'S MAIN ENTRANCE AT THE NORTH PORTICO IS ACCESSED BY A MONUMENTAL STAIR CONSTRUCTED OF BRICK MASONRY, STRUCTURAL STEEL, AND REINFORCED CONCRETE AND CLADED WITH LIMESTONE STAIR TREADS AND PANELS. THE SPACE BENEATH THE UPPER STAIR FLIGHT CONTAINS OCCUPIED SPACE THAT HAS BEEN CONVERTED TO A READING ROOM FOR THE STATE LEGISLATURE.
2. IN MARCH OF 2021, A SECTION OF CONCRETE FROM THE BOTTOM SIDE OF THE CONCRETE SLAB SPALLED OFF AND FELL INTO THE ROOM. THE STATE ISSUED AN EMERGENCY PURCHASE ORDER TO INVESTIGATE THE AREA UNDER THE SLAB FOR OTHER AREAS OF POSSIBLE FAILURE. THE INVESTIGATION DETERMINED THAT THE SPALLING CONCRETE WAS CAUSED BY CORROSION OF REINFORCING BARS WITHIN THE CONCRETE RESULTING FROM WATER INFILTRATION INTO THE CONCRETE. DURING THE INVESTIGATION, ADDITIONAL AREAS OF CORRODED REINFORCEMENT AND DELAMINATED CONCRETE WERE FOUND, AS WELL AS EVIDENCE OF CORROSION AT THE CONCRETE-ENCASED STRUCTURAL STEEL BEAMS. ADDITIONAL AREAS OF WATER INFILTRATION THROUGH THE STAIR INTO THE BUILDING INTERIOR AND BENEATH THE PLATFORM WERE ALSO OBSERVED.
3. BASED ON THE RESULTS OF THE INVESTIGATION, THE GSD HAS SELECTED TO SELECTIVELY REMOVE THE CONCRETE STAIR SLAB TO PERMIT FURTHER INSPECTION AND REPAIRS OF THE EMBEDDED STRUCTURAL STEEL MEMBERS, INSTALL NEW REINFORCED CONCRETE SLABS, AND REMOVE AND REPLACE FAILING WATERPROOFING MATERIALS.
4. DUE TO THE NUMBER OF CONCEALED AND UNKNOWN CONDITIONS, THE REPAIR PROJECT WAS DIVIDED INTO TWO PHASES WITH EACH PHASE BEING AWARDED AS A SEPARATE CONTRACT.
 - a. THE FIRST PHASE OF THIS PROJECT WAS COMPLETED ON XX, AND INCLUDED THE ERECTION OF TEMPORARY PROTECTION; SELECTIVE DEMOLITION AT THE BUILDING INTERIOR; AND REMOVAL, CATALOGING AND STORAGE OF THE LIMESTONE STAIR TREADS, WALL PANELS AND COPING CAPS, AS SHOWN IN THE DRAWINGS.
 - b. THE WORK FOR THIS PROJECT WILL BE THE SECOND PHASE OF THE PROJECT AND WILL GENERALLY INCLUDE THE REMOVAL OF THE CONCRETE SLABS, REPAIRS TO THE STAIR STRUCTURE, INSTALLATION OF NEW WATERPROOFING ASSEMBLY, INSTALLATION OF A NEW MECHANICAL SYSTEM AND INTERIOR FINISHES WITHIN THE READING ROOM, STONE RESTORATION, REINSTALLATION OF EXISTING CLADDINGS, AND RESTORATION OF THE SITE ALONG WITH REPLACEMENT OF THE CONCRETE STAIR STRUCTURE AND PAVERS ALONG THE EAST AND WEST WALKWAYS.

SCOPE OF WORK

- THE SCOPE OF WORK FOR THIS PROJECT DEFINED BY THE CONTRACT DOCUMENTS GENERALLY COMPRISES THE FOLLOWING:
1. MAINTENANCE OF CONSTRUCTION BARRIERS AND SIGNAGE ALONG WITH INSTALLATION OF SHORING, TEMPORARY FACILITIES AND CONTROLS, TEMPORARY PROTECTION REQUIRED TO MAINTAIN OCCUPANT ACCESS AND EGRESS DURING THE WORK AS SHOWN IN THE DRAWINGS AND AS REQUIRED BY CODE.
 2. STORAGE OF MATERIALS AND EQUIPMENT IN DESIGNATED AREAS TO MAINTAIN ACCESS FOR BUILDING OCCUPANTS AND PREVENT IMPACT ON OCCUPANTS OR BUILDING ACTIVITIES.
 3. MEASURES TO ENSURE OCCUPANT AND WORKER SAFETY IS HELD PARAMOUNT THROUGH THE ENTIRE DURATION OF THE WORK.
 4. INSTALLATION OF TEMPORARY WEATHER AND SECURITY PROTECTION MEASURES.
 5. SELECTIVE DEMOLITION OF SUSPENDED REINFORCED CONCRETE STAIR SLABS.
 6. SELECTIVE DEMOLITION OF CONCRETE ENCASEMENTS FROM STRUCTURAL STEEL MEMBERS.
 7. REPAIR OF PAVERS, PANELS, CHEEK WALL STONES, OR COLUMN BASES USING THE REPAIR TECHNIQUES AND PATCH QUANTITIES AS DESIGNATED BY THE ENGINEER.
 8. PROVIDE DISCRETE CONCRETE REPAIRS TO THE BEAMS BENEATH THE PLATFORM AS DESIGNATED.
 9. DEMOLITION OF EXISTING CONCRETE SLAB AND COMPONENTS AS DESIGNATED BY THE DRAWINGS, INCLUDING THE CONCRETE STRINGERS SUPPORTING THE SIDE STAIRS.
 10. PLACEMENT OF CONCRETE FORMS AND REINFORCING STEEL IN ACCORDANCE WITH THE DESIGNS PROVIDED BY THE ENGINEER PRIOR TO THE INSTALLATION OF THE CONCRETE SLABS.
 11. INSTALLATION OF CONCRETE SLABS IN ACCORDANCE WITH DRAWINGS AND DESIGNS.
 12. INSTALLATION OF WATERPROOFING COMPONENTS TO CONCRETE SLABS, CHEEK WALLS, AND OTHER AREAS DESIGNATED IN THE DRAWINGS.
 13. REPLACEMENT OF PAVERS AND CHEEK WALL STONES TO THEIR ORIGINAL OR OTHERWISE DESIGNATED LOCATIONS WITHOUT CAUSING DAMAGE THEM IN THE PROCESS.

14. INSTALLATION OF NEW INTERIOR FINISHES, MECHANICAL, ELECTRICAL, AND LIGHTING WITHIN THE OCCUPIED SPACES BENEATH THE NORTH STAIR.
15. INSTALLATION OF AUXILIARY COMPONENTS SUCH AS RAILINGS, GRATES, OR OTHER SPECIFIED COMPONENTS.
16. DISPOSAL OF DISCARDED AND WASTE MATERIALS OFF SITE.
17. RETURN OF THE SITE TO THE CONDITION IT WAS FOUND BEFORE THE START OF PHASE 1.
18. PROVIDE ASSISTANCE AND ACCESS TO ENGINEER TO PERFORM ADDITIONAL INVESTIGATION WORK TO AS CONCEALED CONDITIONS ARE UNCOVERED.

GENERAL NOTES

1. THE SCOPE OF WORK AS DETAILED IN THESE DRAWINGS WAS BASED ON A LIMITED FIELD INVESTIGATION, THE ORIGINAL CONSTRUCTION DOCUMENTS BY CASS GILBERT AND OTHER INFORMATION PROVIDED BY THE (GSD). THE REPAIR DESIGN IS BASED ON THE ASSUMPTION THAT THE ORIGINAL STRUCTURAL DESIGN MET THE REQUIREMENTS OF THE BUILDING CODE AT THE TIME OF ORIGINAL CONSTRUCTION AND THE EXISTING FRAMING TO REMAIN WERE PROPERLY CONSTRUCTED.
2. ALL LOCATIONS, DIMENSIONS, AND ELEVATIONS ARE BASED ON THE ORIGINAL DESIGN DOCUMENTS AND LIMITED FIELD INVESTIGATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS, MATERIALS, DIMENSIONS, LOCATIONS, AND EXISTING ELEMENTS TO REMAIN IN THE FIELD BEFORE PROCEEDING WITH ANY WORK AND PRIOR TO SUBMITTING SHOP DRAWINGS. IF ANY CONDITIONS VARY FROM WHAT IS PRESENTED IN THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
3. THE DETAILS AND CONDITIONS OF SELECTED ELEMENTS AND CONNECTIONS ARE UNKNOWN. CONDITIONS OF STRUCTURAL ELEMENTS AND CONNECTIONS THAT APPEAR TO BE DAMAGED, MISSING, DETERIORATED, AND/OR COMPROMISED SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
4. SECTION CUT AND DETAIL CALLOUTS INDICATED IN THE DRAWINGS ARE TYPICAL FOR THE PROJECT. THEY ARE TO BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AND HAVE NOT BEEN SHOWN EVERYWHERE THEY APPLY.
5. SYMBOLS IN THE DRAWINGS ARE NOT TO SCALE. DO NOT SCALE QUANTITIES OR DIMENSIONS FROM THE DRAWINGS.
6. ALL WORK SHALL BE LAID OUT PRIOR TO INSTALLATION OF NEW WORK BASED ON MEASUREMENT OF EXISTING CONSTRUCTION AND EXISTING CONSTRUCTION TO REMAIN AS PART OF THE PROJECT. DO NOT START INSTALLATION OF WORK UNTIL LAYOUT IS COMPLETE AND POTENTIAL CONFLICTS HAVE BEEN IDENTIFIED AND ADDRESSED.
7. THE BUILDING WILL REMAIN OCCUPIED 365 DAYS OF THE YEAR AND WILL REMAIN OPERATIONAL DURING THE WORK. WORK SHALL BE CONDUCTED IN A MANNER THAT PROVIDES THE LEAST INTERFERENCE WITH OCCUPANT ACTIVITIES AND AS DIRECTED BY THE GSD. MEASURES SHALL BE TAKEN TO ENSURE OCCUPANT SAFETY IS HELD PARAMOUNT THROUGHOUT THE ENTIRE DURATION OF THE WORK.
8. ACCESSIBLE EGRESS TO AND FROM THE BUILDING MUST BE MAINTAINED AT ALL TIMES. PROVIDE ADEQUATE PROTECTION FOR THE EXISTING BUILDING AND THE OCCUPANTS AT ALL TIMES IN ACCORDANCE WITH ALL ADA AND OSHA REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. MEASURES WILL NEED TO BE TAKEN TO ENSURE OCCUPANTS SAFETY IS HELD PARAMOUNT THROUGH THE ENTIRE DURATION OF THE WORK.
9. MATERIALS AND EQUIPMENT SHALL BE STORED IN DESIGNATED STORAGE AREAS TO PREVENT IMPACT ON OCCUPANTS OR BUILDING ACTIVITIES AND SHALL NOT ENCUMBER THE PUBLIC, SURROUNDING RIGHT OF WAY, OR ADJOINING GROUNDS
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DUST AND ODOR CONTROL MEASURES RELATED TO THE WORK.
11. ALL WORK AREAS SHALL BE CLEANED DAILY.
12. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL CONSTRUCTION WITH GSD, SPECIFICALLY AS IT RELATES TO BUILDING OCCUPANTS AND OPERATIONS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BUILDING COMPONENTS ADJACENT TO THE AREAS OF WORK INDICATED TO REMAIN. EXERCISE EVERY PRECAUTION TO PROTECT AND MAINTAIN FREE FROM DAMAGE PORTIONS OF THE EXISTING BUILDING ADJACENT TO AND ADJOINING THE WORK.
14. THE WORK AREAS SHALL BE COMPLETELY PROTECTED FROM WIND, SNOW, AND RAIN THROUGHOUT THE ENTIRE DURATION OF THE WORK.
15. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER BEFORE MAKING CHANGES OR ADDITIONS TO CONSTRUCTION OR REMOVING MATERIALS THAT WERE INTENDED TO REMAIN.
16. NOTIFY ENGINEER OF VISIBLE CHANGES IN THE INTEGRITY OF MATERIALS OR COMPONENTS WHETHER DUE TO ENVIRONMENTAL CAUSES--INCLUDING BIOLOGICAL ATTACK, UV DEGRADATION, FREEZING OR THAWING--OR DUE TO STRUCTURAL DEFECTS, INCLUDING CRACKS, MOVEMENT, OR DISTORTION. DO NOT PROCEED WITH THE WORK IN QUESTION UNTIL DIRECTED BY THE ENGINEER.

17. TEMPORARY MATERIALS MAY BE NEW OR USED, BUT MUST BE ADEQUATE IN CAPACITY FOR REQUIRED USAGE, MUST NOT CREATE UNSAFE CONDITIONS, AND MUST NOT VIOLATE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS. WOOD PRODUCTS USED FOR TEMPORARY MATERIALS IN PROXIMITY TO STRUCTURE SHALL BE FIRE RETARDANT MATERIALS.
18. FLAMMABLE LIQUIDS OR MATERIALS SHALL BE STORED AND DISPENSED FROM UL-LISTED SAFETY CONTAINERS IN CONFORMANCE WITH NATIONAL BOARD OF FIRE UNDERWRITER'S RECOMMENDATIONS. STORAGE SHALL NOT BE WITHIN THE BUILDING.
19. CONTRACTOR SHALL PROVIDE NOTIFICATION TO THE GSD PRIOR TO PERFORMING TORCH CUTTING AND WELDING OPERATIONS. CHEMICAL EXTINGUISHERS SHALL BE AVAILABLE WHERE SUCH WORK IS IN PROGRESS.
20. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE FIRE PROTECTION IN THE FORM OF FIRE EXTINGUISHERS OR OTHER EFFECTIVE MEANS OF EXTINGUISHING FIRE, READY FOR INSTANT USE, DISTRIBUTED AROUND THE PROJECT, AND IN AND ABOUT TEMPORARY INFLAMMABLE STRUCTURES DURING CONSTRUCTION OF WORK. PROVIDE TYPES, SIZES, NUMBERS, AND LOCATIONS FOR FIRE EXTINGUISHERS AS WOULD BE REASONABLY EFFECTIVE IN EXTINGUISHING FIRES DURING EARLY STAGES BY PERSONNEL AT PROJECT SITE. PROVIDE TYPE-A EXTINGUISHERS AT LOCATIONS OF LOW POTENTIAL FOR EITHER ELECTRICAL OR GREASE-OIL FLAMMABLE LIQUID FIRES; PROVIDE TYPE-ABC DRY CHEMICAL EXTINGUISHERS AT OTHER LOCATIONS. COMPLY WITH RECOMMENDATIONS OF NFPA NO. 10. POST THE LOCAL FIRE DEPARTMENT CALL NUMBER ON EACH TELEPHONE INSTRUMENT AT PROJECT SITE.
21. EXISTING FIRE HOSE CONNECTIONS SHALL BE ACCESSIBLE AT ALL TIMES BY FIRE DEPARTMENT PERSONNEL. MATERIALS AND DEBRIS SHALL NOT BE STORED IN FRONT OF CONNECTIONS, THUS PREVENTING ACCESS. THE CONTRACTOR SHALL COORDINATE ACCESS PROCEDURES WITH THE STATE FIRE MARSHAL.
22. ALL EXISTING FIRE PROTECTIONS SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR'S MEANS AND METHODS SHALL NOT GENERATE DUST OR OTHER SUBSTANCE THAT MIGHT IMPACT THE EXISTING SYSTEMS IN THE BUILDING. IF TEMPORARY SHUTDOWN IS NECESSARY, SYSTEMS SHALL BE RETURNED TO OPERABLE CONDITION AS SOON AS POSSIBLE AND NO LATER THAN THE END OF EACH WORKING DAY PRIOR TO CONTRACTOR LEAVING THE JOB SITE. CONTRACTOR SHALL NOTIFY GSD AND STATE FIRE MARSHAL PRIOR TO ANY NECESSARY SHUTDOWNS. SHUTDOWN SHALL NOT AFFECT OTHER AREAS INVOLVED WITH THE CONSTRUCTION PROJECT.
23. WHERE WORK REQUIRES EXISTING FEATURES TO BE REMOVED, CLEANED, AND REUSED, PERFORM THESE OPERATIONS WITHOUT DAMAGE TO THE MATERIALS THEMSELVES, TO ADJACENT MATERIALS, OR TO THE SUBSTRATE. WHEN CLEANING, MATCH SAMPLES OF EXISTING MATERIALS THAT HAVE BEEN CLEANED AND IDENTIFIED FOR ACCEPTABLE CLEANING LEVELS. AVOID OVER-CLEANING TO PREVENT DAMAGE TO EXISTING MATERIALS DURING CLEANING.
24. THE DRAWINGS AND SPECIFICATIONS COMPLEMENT EACH OTHER AND SHOULD BE USED JOINTLY DURING PERFORMANCE OF THE WORK. NOTES ON THE DRAWINGS DO NOT SUPERCEDE SPECIFICATION REQUIREMENTS.
25. ANY DAMAGE TO THE EXISTING MATERIALS SHALL BE DOCUMENTED PRIOR TO CONSTRUCTION.
26. TEMPORARY CONSTRUCTION BARRIERS AND TEMPORARY FACILITIES MUST BE MAINTAINED EXECUTION OF THE WORK.
27. THE CONTRACTOR IS RESPONSIBLE FOR ENERGY CONSERVATION AND REASONABLE CONSTRUCTION USE OF ALL ELECTRICAL POWER. THE CONTRACTOR SHALL PAY FOR ADDITIONAL POWER CONSUMPTION ABOVE THE REASONABLE AMOUNT AS DETERMINED BY THE GSD, IF THE GSD DETERMINES THAT THE CONTRACTOR HAS USED AN UNREASONABLE OR EXCESSIVE AMOUNT OF ELECTRICITY. SHOULD THE CONTRACTOR'S USE OF ADDITIONAL ELECTRICITY REQUIRED FOR WORK EXCEED THE LIMITS OF AVAILABLE RESOURCES IN THE BUILDING, THE CONTRACTOR SHALL REDUCE ELECTRICITY CONSUMED AND/OR PAY FOR SUCH MODIFICATIONS AS REQUIRED TO ELIMINATE COMPROMISING THE GSD'S SYSTEM.
28. ALL TEMPORARY WIRING SHALL BE REMOVED BEFORE PROJECT COMPLETION.
29. THE INFORMATION FOR EACH ELECTRICAL CONNECTION SHOWN WAS PROVIDED BY GSD. CONTRACTOR SHOULD VERIFY ALL ELECTRICAL CONNECTIONS ONCE ON SITE.
30. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WORK RELATED TO ELECTRICAL REQUIREMENTS AND PROTECTING THE BUILDING WITHIN THE LIMITS OF AVAILABLE ELECTRICAL POWER, WITHOUT COMPROMISING THE GSD'S NEED FOR ELECTRICITY.
31. DUE TO THE AGE OF THE WIRING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ELECTRICAL SAFEGUARDS ARE MET DURING CONSTRUCTION.
32. CONTRACTOR SHALL PROVIDE A BRANCH DISTRIBUTION SYSTEM FROM TEMPORARY POWER SOURCE WITH DISTRIBUTION BOXES AND OUTLETS LOCATED SO THAT ADEQUATE POWER AND LIGHTING ARE AVAILABLE THROUGHOUT ACTIVE WORK AREAS.

SITE WORK AND TEMPORARY PROTECTION NOTES

1. MAINTAIN ALL CONSTRUCTION BARRIERS, SHORING, TEMPORARY FACILITIES AND CONTROLS, TEMPORARY ACCESS DRIVES, SCAFFOLDING, ENCLOSURES, TEMPORARY PROTECTION, OVERHEAD PROTECTION, AND SIGNAGE AS NECESSARY TO MAINTAIN OCCUPANT ACCESS AND EGRESS DURING THE WORK AS SHOWN IN THE DRAWINGS AND AS REQUIRED BY CODE. DEVIATIONS FROM THE SITE AND TEMPORARY PROTECTION PLANS MUST BE APPROVED BY THE ENGINEER AND GSD.
2. NO CONCRETE DEMOLITION SHALL BY REMOVED UNTIL TEMPORARY WEATHER PROTECTION HAS BEEN INSTALLED AND APPROVED BY THE GSD AND ENGINEER.
3. ACCESS SHALL BE MAINTAINED FOR OCCUPANTS THROUGHOUT THE DURATION OF THE WORK, AND MATERIALS AND EQUIPMENT SHALL BE STORED IN DESIGNATED AREAS TO PREVENT IMPACT ON OCCUPANTS OR BUILDING ACTIVITIES. MEASURES WILL NEED TO BE TAKEN TO ENSURE OCCUPANT AND WORKER SAFETY IS HELD PARAMOUNT THROUGH THE ENTIRE DURATION OF THE WORK.
4. ANY DAMAGE TO EXISTING FINISHES CAUSED BY THE INSTALLATION OF TEMPORARY BARRIERS SHALL BE REPAIRED TO MATCH THE ORIGINAL CONDITION.

DEMOLITION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND SHORING AND SHALL MAINTAIN THE INTEGRITY AND STABILITY OF THE EXISTING STRUCTURE UNTIL THE WORK IS COMPLETED. NO PORTIONS OF THE STRUCTURE SHALL BE PERMITTED TO MOVE, FALL, OR DROP.
2. NO STRUCTURAL MEMBER OR ELEMENT SHALL BE CUT OR ALTERED, EXCEPT AS INDICATED ON THE DRAWINGS, WITHOUT AUTHORIZATION OF THE ENGINEER.
3. ALL DISCARDED MATERIALS SHALL BE DISPOSED OF PROPERLY.
4. IF ANY UNFORESEEN OR OTHER CONDITIONS ARE REVEALED DURING DEMOLITION THAT AFFECT PERFORMANCE OF THE WORK SHOWN WITHIN THE DRAWINGS, NOTIFY THE ENGINEER IMMEDIATELY.

STRUCTURAL NOTES

1. DESIGN LOADS
 - a. LIVE LOAD: 150 PSF
 - b. SNOW LOAD CRITERIA
 - i. GROUND SNOW LOAD: 20 PSF
 - ii. FLAT-ROOF SNOW LOAD: 18.5 PSF
 - iii. SNOW EXPOSURE FACTOR: 1.0
 - iv. SNOW LOAD IMPORTANCE FACTOR: 1.1
 - v. THERMAL FACTOR: 1.2
 - vi. DRIFT SURCHARGE LOAD: 0.0 PSF
 - c. WIND LOAD CRITERIA
 - i. BASIC WIND SPEED: 107 MPH
 - ii. RISK CATEGORY: III
 - iii. WIND EXPOSURE: B
 - iv. INTERNAL PRESSURE COEFFICIENT: 0.18
 - v. SEISMIC LOAD CRITERIA
 - i. RISK CATEGORY: III
 - ii. SEISMIC IMPORTANCE FACTOR: 1.25
 - iii. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
 - (1) S_S: 0.155 G
 - (2) S_D: 0.064 G
 - iv. SITE CLASS: D-DEFAULT
 - v. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
 - (1) S_{DS}: 0.166 G
 - (2) S_{D1}: 0.106 G
 - vi. SEISMIC DESIGN CATEGORY: B
 - e. RAIN LOAD DATA
 - i. RAIN INTESITY: 3.0 IN/HR
 2. SPECIAL INSPECTIONS
 - a. SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC. REFER TO SPECIFICATIONS SECTION 01 40 00 FOR THE GENERAL INSPECTION REQUIREMENTS. THE FOLLOWING IS A LIST OF ITEMS THAT REQUIRE SPECIAL INSPECTION AND THE RESPECTIVE SECTION OF THE SPECIFICATIONS THAT CONTAINS THE SPECIFIC REQUIREMENTS FOR EACH ITEM:
 - i. SECTION 03 01 30 CONCRETE REPAIR
 - j. SECTION 03 01 30.1 FROM CONCRETE REPAIRS (BID ALTERNATE 1)
 - k. SECTION 03 10 00 CONCRETE FORMING AND ACCESSORIES
 - l. SECTION 03 20 00 CONCRETE REINFORCING
 - m. SECTION 03 30 00 CAST-IN-PLACE CONCRETE
 - n. SECTION 05 12 83 STRUCTURAL STEEL REPAIRS

CONCRETE NOTES

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING DOCUMENTS:
 - a. ACI 318-18, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
 - b. ACI 301-10, "SPECIFICATION FOR STRUCTURAL CONCRETE"
 - c. CRSI "MANUAL OF STANDARD PRACTICE, 29E"
2. THE INSIDE DIAMETER OF ALL BENDS AND HOOKS SHALL BE PER ACI 318:
 - a. LONGITUDINAL AND TRANSVERSE REINFORCEMENT: MINIMUM OF SIX BAR DIAMETERS
 - b. STIRRUPS, TIES, AND HOOPS: MINIMUM OF FOUR BAR DIAMETERS
3. DO NOT STRAIGHTEN OR REBEND BARS THAT HAVE BEEN BENT.
4. CONCRETE PHYSICAL PROPERTIES
 - a. COMPRESSIVE STRENGTH: 4000 PSI AT 28 DAYS
 - b. SLUMP: 5"±1"
5. CONCRETE MIX PROPERTIES:
 - a. NORMAL WEIGHT CONCRETE
 - b. PORTLAND CEMENT TYPE III
 - c. MAXIMUM COARSE AGGREGATE SIZE: 3/4"
 - d. MAXIMUM W/C RATIO: 0.45
 - e. AIR ENTRAINMENT: 6%
 - f. MAXIMUM WATER-SOLUBLE CHLORIDE ION CONTENT: 0.30% OF WEIGHT OF CEMENT
6. REINFORCING BARS: ASTM A615, GR. 60.
7. WELD WIRE FABRIC: WWF 4X4 D4/D4, ASTM A1022, TYPE 316 STAINLESS STEEL.
8. MINIMUM CONCRETE CLEAR COVER FOR REINFORCING BARS: AS SHOWN IN THE DRAWINGS.
9. MINIMUM LAP LENGTHS FOR LAPPED REINFORCEMENT SPLICES:
 - a. NO. 4 BARS: 19 INCHES
 - b. NO. 5 BARS: 20 INCHES
10. ADJACENT LAPS SHALL BE OFFSET AS INDICATED IN THE DRAWINGS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY FORMWORK AND SHORING DURING PLACEMENT AND DEMOLITION.
12. ADHESIVE ANCHORS
 - a. POST-INSTALLED REINFORCING BAR INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - b. THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR POST-INSTALLED REINFORCING BARS. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION PRIOR TO THE COMMENCEMENT OF INSTALLING THE BARS THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL POST-INSTALLED REINFORCING BARS HAVE BEEN TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
11. THE POSITION OF EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL BE LOCATED AND MARKED PRIOR TO DRILLING OR CORING.



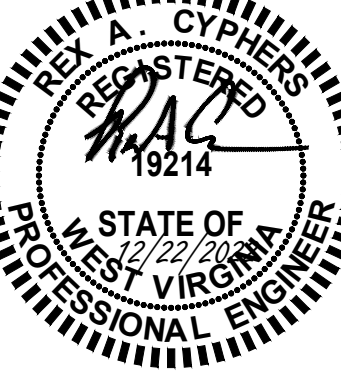
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WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS

SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME

GENERAL
NOTES

SHEET NUMBER

G0.01

REPAIR SCHEDULE

	Concrete Crack Repair	Concrete Patch Repair	Concrete Patch Repair (Bid Alt 1)	Limestone Stair Tread Replacement	Limestone Crack Repair	Limestone Patching	Limestone Repointing	Limestone Dutchman Repair	Granite Patching	Granite Dutchman	Brick Masonry Replacement	Brick Masonry Repointing	Structural Steel Zinc Rich Primer
UNIT PRICE ITEM PART:	B	C	1.A	D	E	F	G	H	I	J	K	L	O
UNITS:	INCH	SQ. FT.	SQ. FT.	UNIT	INCH	CU. IN.	LIN. FT.	CU. IN.	CU. IN.	CU. IN.	SQ. FT.	SQ. FT.	SQ. FT.
STRUCTURAL SHEETS													
S1.03W													2150
S1.04W													1070
S1.04AL			300										
S2.01												15	
S2.02	330	48											
ARCHITECTURAL SHEETS													
A1.01											20		30
A1.13							200						
A2.01						1750	1125					90	
A2.02					125	800	1125					90	
A2.03					50	450	350					10	
A5.20					35	2750							
A5.21					40	3000							
A5.22					15	200							
APPENDIX B													
STONE TO BE REPLACED				7									
"SIDE STAIR TREADS (ROWS 01 - 05)"									50	25			
"LOWER FLIGHT TREADS (ROWS 11 - 22)"									65				
"MIDDLE FLIGHT TREADS (ROWS 41 - 58)"					5	9500		11700					
INTERMEDIATE LANDING PAVERS (ROW 61)						350							
"UPPER FLIGHT TREADS (ROWS 71 - 88)"					120	200		150					
"PORTICO PAVERS (ROWS 91 - 95)"						350							
PLATFORM WALL PANELS									5				
CHEEKWALL COPINGS, CORNICES, AND WALL PANELS					10	650		150					
BASE BID TOTALS	330	48	300	7	400	20000	2800	12000	120	25	20	205	3250



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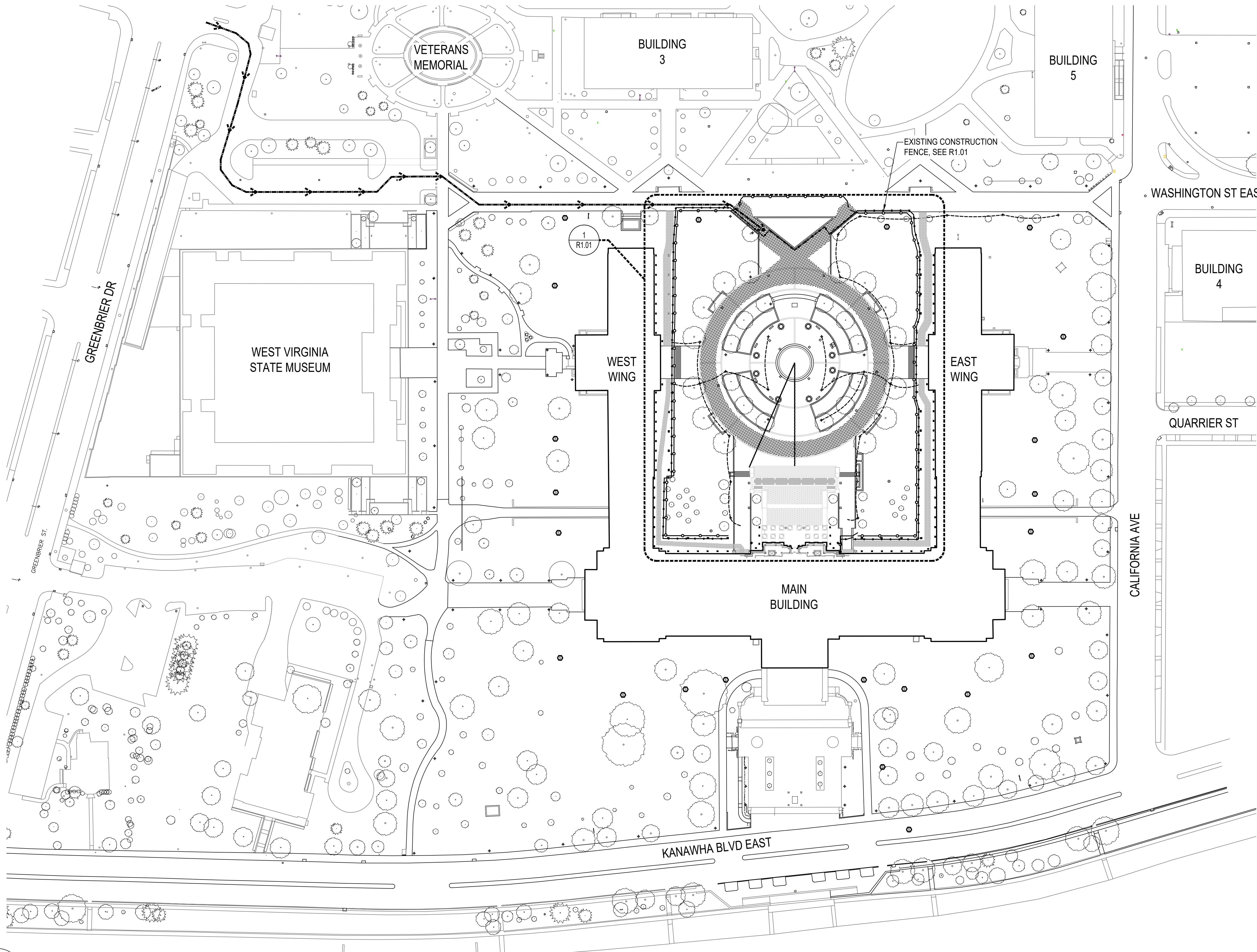
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SHEET NAME

REPAIR
SCHEDULE

SHEET NUMBER

G0.02



KEY LEGEND	
	CONSTRUCTION ACCESS ROUTE

SHEET NOTES

1. CONTRACTOR SHALL INCLUDE THE CONSTRUCTION ACCESS ROUTE, INCLUDING ADJACENT LANDSCAPING AND SITE ELEMENTS, IN THE PRE-CONSTRUCTION PHOTOGRAPHIC DOCUMENTATION. ANY EXISTING DAMAGES WHICH COULD BE CONSTRUED TO BE A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE SUFFICIENTLY DOCUMENTED PRIOR TO MOBILIZATION AND WILL BE CONSIDERED AS A RESULT OF THIS PROJECT WITHOUT DOCUMENTATION IN THE FORM OF PRECONSTRUCTION PHOTOGRAPHS TAKEN PRIOR TO MOBILIZATION.
2. ANY DAMAGE TO PAVEMENTS, LANDSCAPING, AND OTHER SITE ELEMENTS ALONG THE CONSTRUCTION ACCESS ROUTE SHALL BE RESTORED TO ORIGINAL CONDITION AT NO COST.



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WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS	

SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

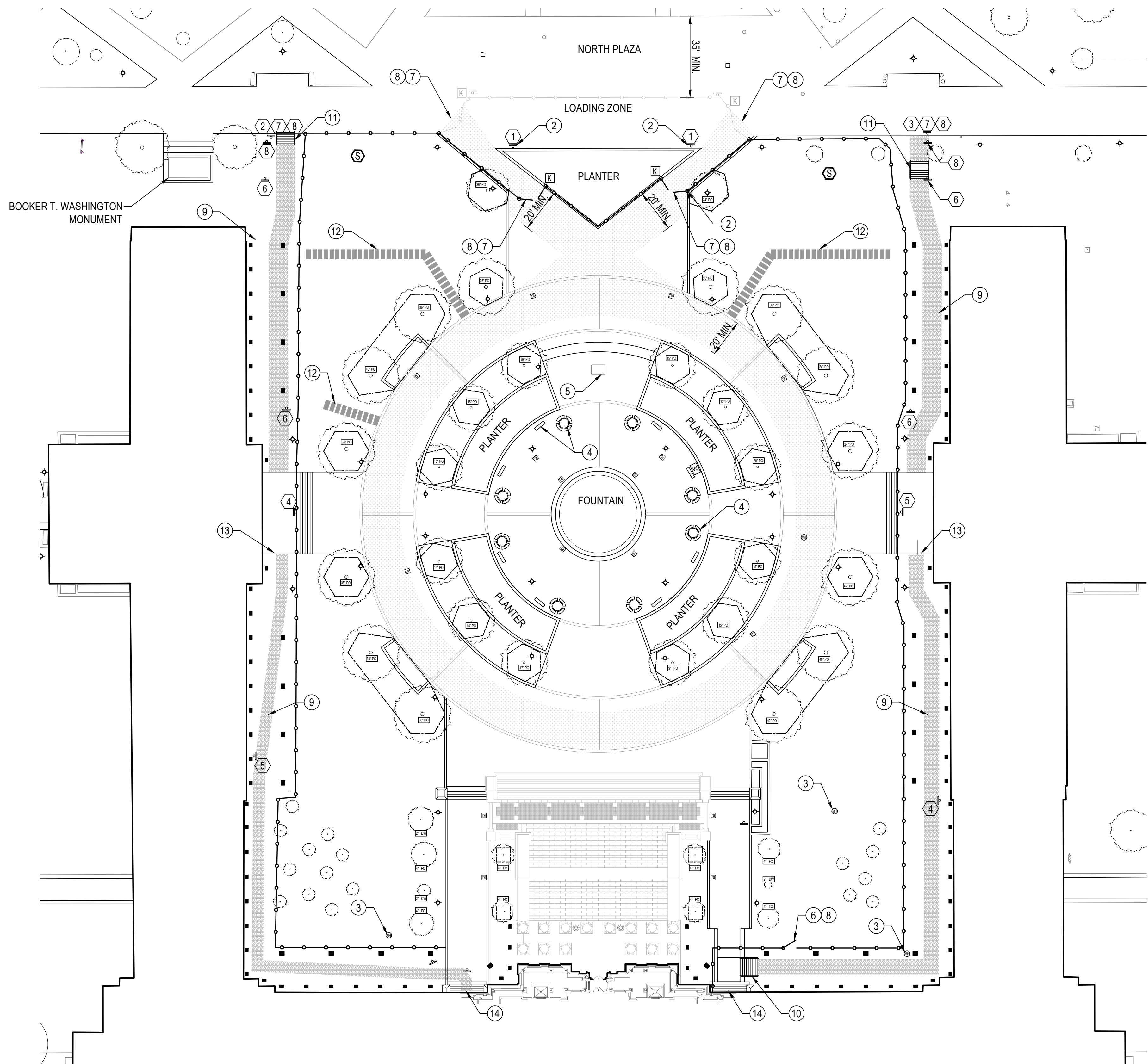
SHEET NAME
SITE ACCESS PLAN

SHEET NUMBER
G1.01

1
G1.01

SITE ACCESS PLAN
SCALE: 1/8"=1'-0"

PLAN
NORTH



ANNOTATION LEGEND

1. RELOCATE EXISTING CONSTRUCTION FENCING, GATES, AND KNOX BOXES TO SOUTH SIDE OF PLANTER.
2. RELOCATE EXISTING SIGN TO SOUTHERN EDGE OF PLAZA.
3. EXISTING MANHOLES SHALL REMAIN UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES.
4. AT END OF CONSTRUCTION, REINSTALL EXISTING TABLES AND BENCHES AT THEIR ORIGINAL LOCATIONS AS INDICATED BY GSD. ORIGINAL LOCATIONS SHOWN ARE APPROXIMATE.
5. MAINTAIN TEMPORARY PROTECTION AROUND LIBERTY BELL. MAINTAIN DOOR LOCKED AT ALL TIMES AND ALLOW ACCESS TO STATE CONSERVATIONIST.
6. ACCESS GATE.
7. RELOCATED SITE ACCESS GATE.
8. INSTALL LOCKS ON ALL GATES. ALL GATES SHALL BE SECURED WHEN CONTRACTOR IS NOT ON SIDE.
9. EXISTING TEMPORARY EGRESS ROUTE FROM CAPITOL BUILDING TO NORTH PLAZA.
10. EXISTING TEMPORARY EGRESS PLATFORM AND STAIR. SEE R1.02 FOR EXISTING CONSTRUCTION DETAILS.
11. EXISTING TEMPORARY EGRESS STAIR. SEE R1.02 FOR EXISTING CONSTRUCTION DETAILS.
12. PROVIDE GROUND PROTECTION AT TEMPORARY ACCESS DRIVES.
13. MAINTAIN EXISTING EGRESS GATE IN PROPER WORKING ORDER DURING CONSTRUCTION.
14. NORTH DOORS ARE DESIGNATED AS EMERGENCY EXITS ONLY DURING CONSTRUCTION.

KEY LEGEND

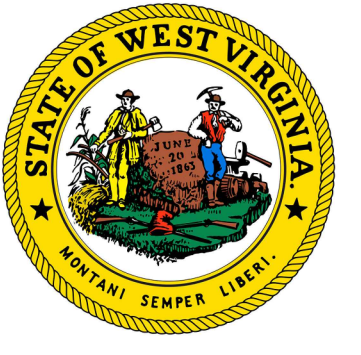
	OBSTRUCTION-FREE AREA
	EXISTING CONSTRUCTION FENCE
	TEMPORARY TREE PROTECTION
	EXISTING TREE, SEE TREE LEGEND
	MANHOLE
	SITE LIGHT
	DROP INLET
	INSTALL KNOX BOX WITH GATE KEY
	LIGHT POST
	BELOW GRADE LUMINAIRE VAULT
	TEMPORARY SIGN (SIGN FACES ID NUMBER)
	SIGN ID NUMBER, SEE SIGN SCHEDULE ON R5.03
	TEMPORARY EGRESS ROUTE
	SITE PROTECTION TO BE RELOCATED PRIOR TO CONSTRUCTION
	RELOCATED SITE PROTECTION
	TEMPORARY ACCESS DRIVE

TREE LEGEND

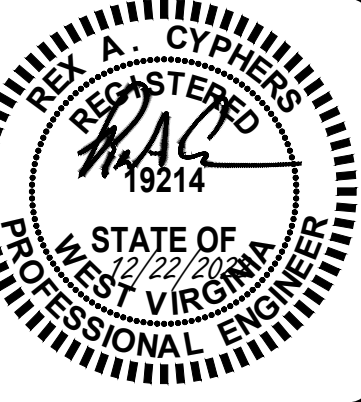
	TREE CALIPER PER 2014 SURVEY
	DOGWOOD (CORNUS FLORIDA)
	FLOWERING CRABAPPLE (MALUS)
	PIN OAK (QUERCUS PALUSTRIS)

SHEET NOTES

1. THE FIRE LANES SHALL BE MAINTAINED CLEAR AND UNOBSTRUCTED AT ALL TIMES FOR ACCESS BY EMERGENCY PERSONNEL.
2. ALL GATES SHALL BE KEPT TO THE SAME KEY. COPIES OF THE GATE KEY SHALL BE PROVIDED TO THE GSD, CAPITOL POLICE, AND IN KNOX BOXES FOR EMERGENCY SITE ACCESS.
3. CONSTRUCTION FENCES, BARRIERS, TREE PROTECTIONS, EGRESS PATHS, GATES, SIGNS, AND STAIRS SHOWN ARE BASED ON AS-BUILT DRAWINGS SUBMITTED BY THE PHASE-1 CONTRACTOR. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND CONDITIONS OF EXISTING SITE PROTECTION ELEMENTS.
4. MAINTAIN EGRESS PATHS CLEAR AND UNOBSTRUCTED BY TEMPORARY STRUCTURES, CONSTRUCTION MATERIALS, VEHICLES, AND OTHER OBSTRUCTIONS AT ALL TIMES.
5. AT END OF CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SITE PROTECTION ELEMENTS AND CLEANING THE SITE.
6. THE GSD WILL ENGAGE A THIRD-PARTY LANDSCAPING FIRM TO PERFORM LANDSCAPE RESTORATION AT LAYDOWN AREAS THAT ARE NO LONGER REQUIRED BY THE CONTRACTOR. AS CONSTRUCTION PROGRESSES, THE CONTRACTOR SHALL VACATE AND CLEAN AREAS THAT ARE NO LONGER REQUIRED FOR ON-GOING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL COORDINATE WITH THE GSD AND THE GSD'S THIRD-PARTY LANDSCAPING FIRM FOR ACCESS TO VACATED AREAS.



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NORTH STAIR REPAIR - PHASE II

REVISIONS

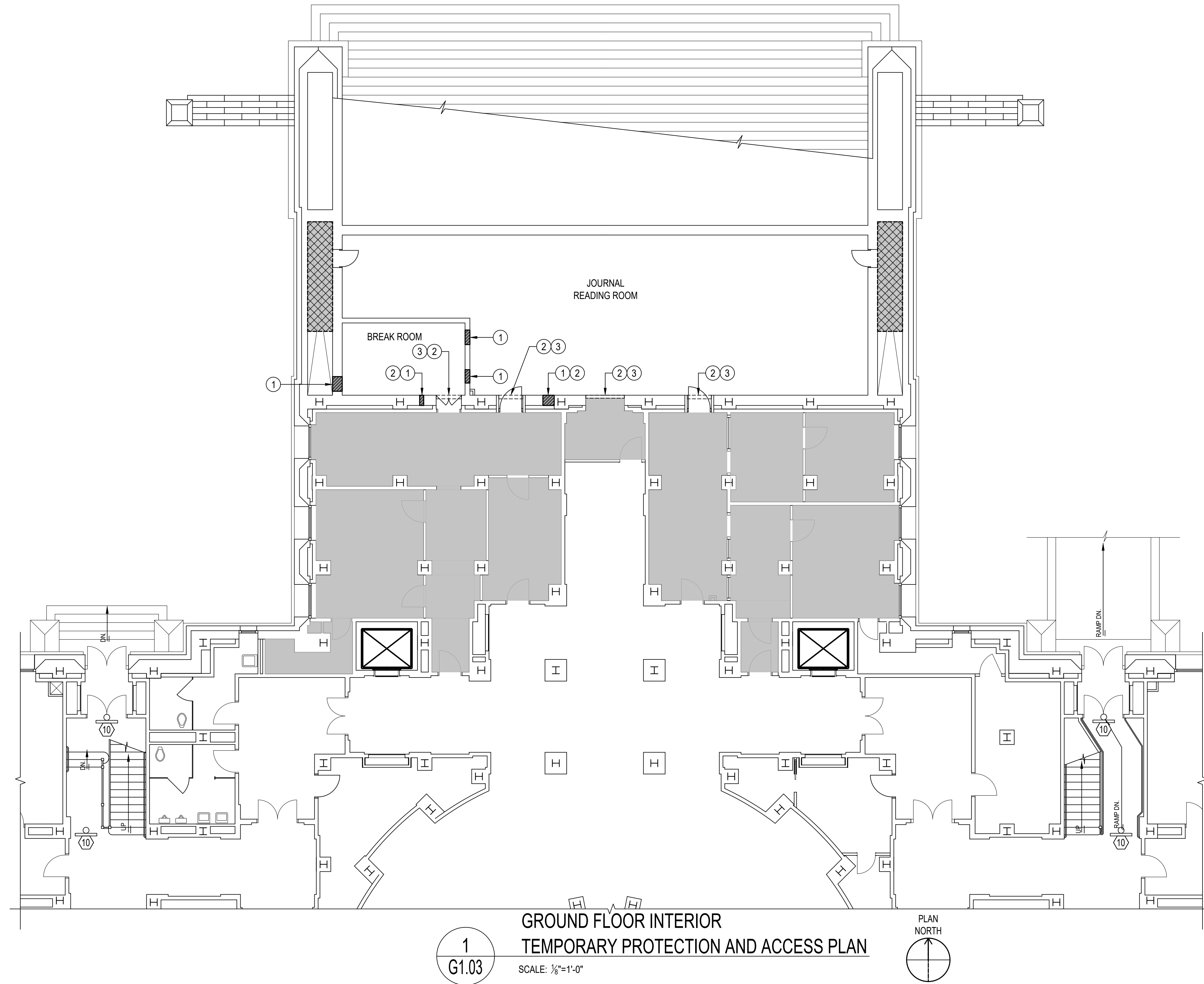
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME

GRD FLOOR
PROTECTION
PLAN

SHEET NUMBER

G1.02



KEY LEGEND	
	CREATE TEMPORARY AREAWAY TO PERMIT ACCESS AND CONVEYING OF PERSONAL AND MATERIALS BETWEEN THE INTERIOR SPACE AND BUILDING EXTERIOR.
	EXISTING WALL OPENINGS
	ADJACENT ROOMS TO REMAIN UNOCCUPIED DURING CONSTRUCTION.
	TEMPORARY SIGN (SIGN FACES ID NUMBER)
	SIGN ID NUMBER, SEE SIGN SCHEDULE ON R5.02

- ANNOTATION LEGEND
1. INSTALL TEMPORARY SHORING AT EXISTING OPENINGS WIDER THAN 16" IN BRICK WALLS.
 2. AT MASONRY PARTITION WALL AT SOUTH SIDE OF JOURNAL AND BREAK ROOMS INSTALL AND MAINTAIN DUST ENCLOSURES AT ALL OPENINGS AND PENETRATIONS THROUGH WALL UNTIL COMPLETION OF STRUCTURAL REPAIR WORK, TYP.
 3. INSTALL TEMPORARY SECURITY BARRIERS TO THE SATISFACTION OF CAPITOL POLICE, AT ALL DOOR OPENINGS UNTIL COMPLETION OF UPPER FLIGHT SLAB REPLACEMENT.



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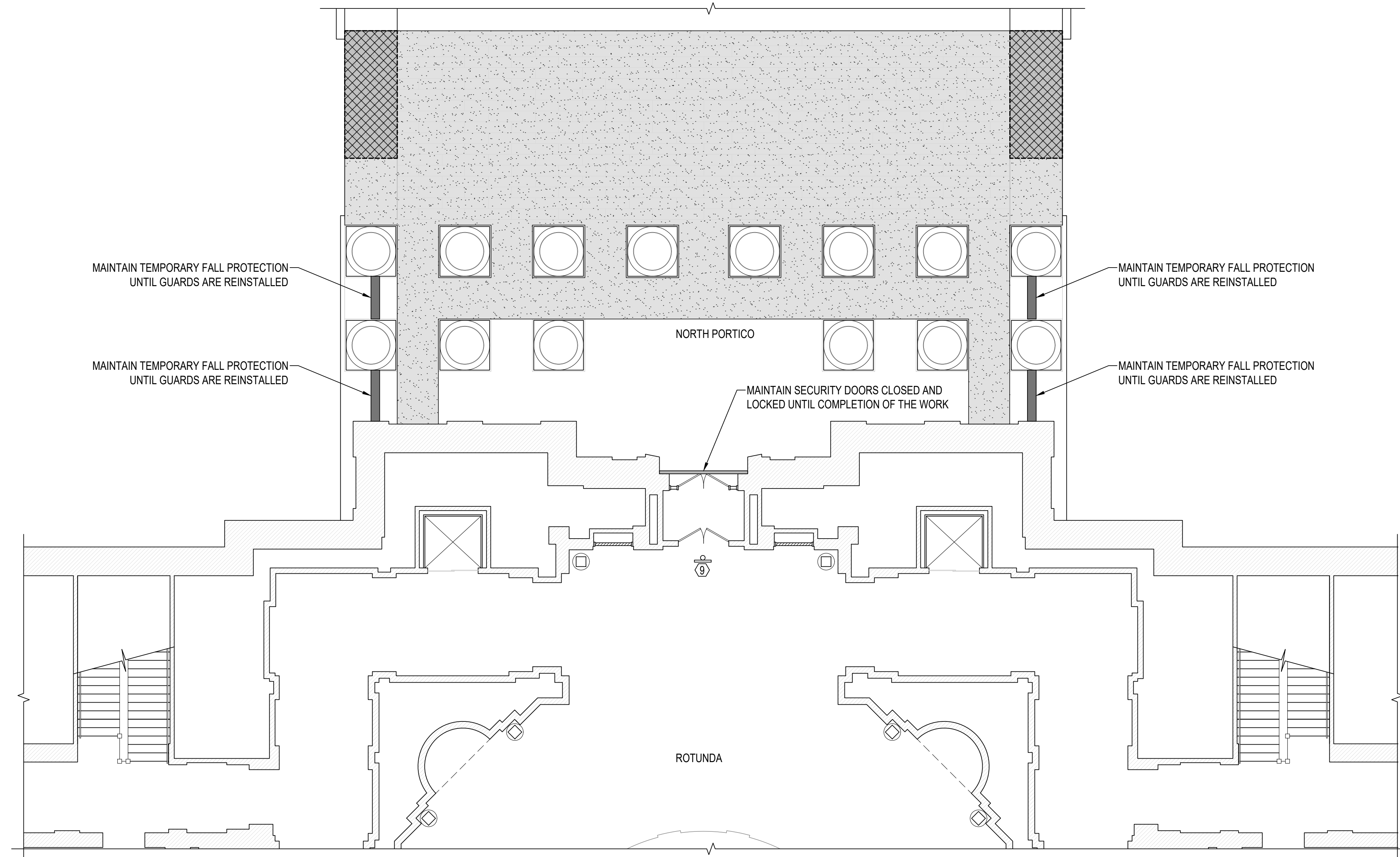
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CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

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CHECK	RAC

SHEET NAME
**GRD FLOOR
PROTECTION
PLAN**

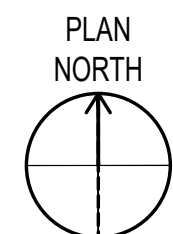
SHEET NUMBER
G1.03



1
G1.04

FIRST FLOOR INTERIOR
TEMPORARY PROTECTION PLAN

SCALE: 1/8"=1'-0"

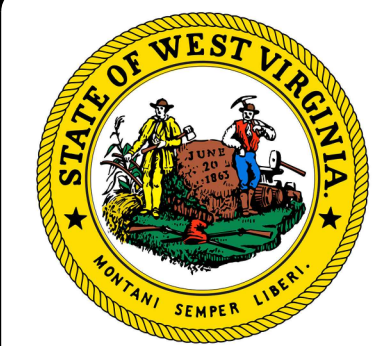


KEY LEGEND

	INSTALL TEMPORARY BULKHEAD OVER TEMPORARY AREAWAY TO PERMIT ACCESS AND CONVEYING OF PERSONNEL AND MATERIALS BETWEEN THE INTERIOR SPACE AND BUILDING EXTERIOR TO INCLUDE SECURITY DOORS AND LOCKS TO PREVENT ENTRY INTO THE BUILDING.
	MAINTAIN TEMPORARY WEATHER PROTECTION OVER UPPER FLIGHT, CHEEK WALLS, AND PORTICO UNTIL NEW WATERPROOFING SYSTEM HAS BEEN INSTALLED AT THESE AREAS.
	EXISTING TEMPORARY SIGN (SIGN FACES ID NUMBER)
	SIGN ID NUMBER, SEE SIGN SCHEDULE ON R5.02

NOTE:

REMOVE AND DISCARD TEMPORARY WEATHER PROTECTION AFTER COMPLETION OF WATERPROOFING INSTALLATION.



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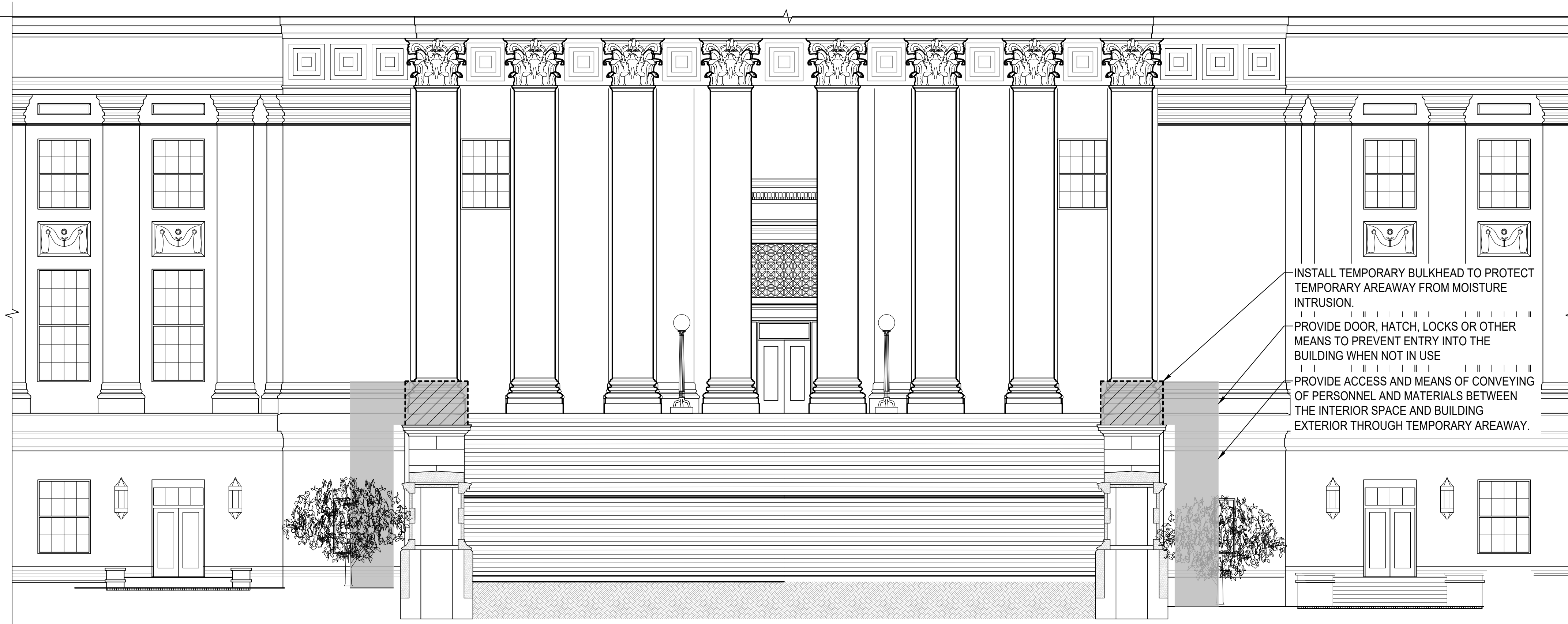
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NORTH STAIR REPAIR - PHASE II

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WDP JOB NUMBER	21060
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SHEET NAME
1ST FLOOR
PROTECTION
PLAN

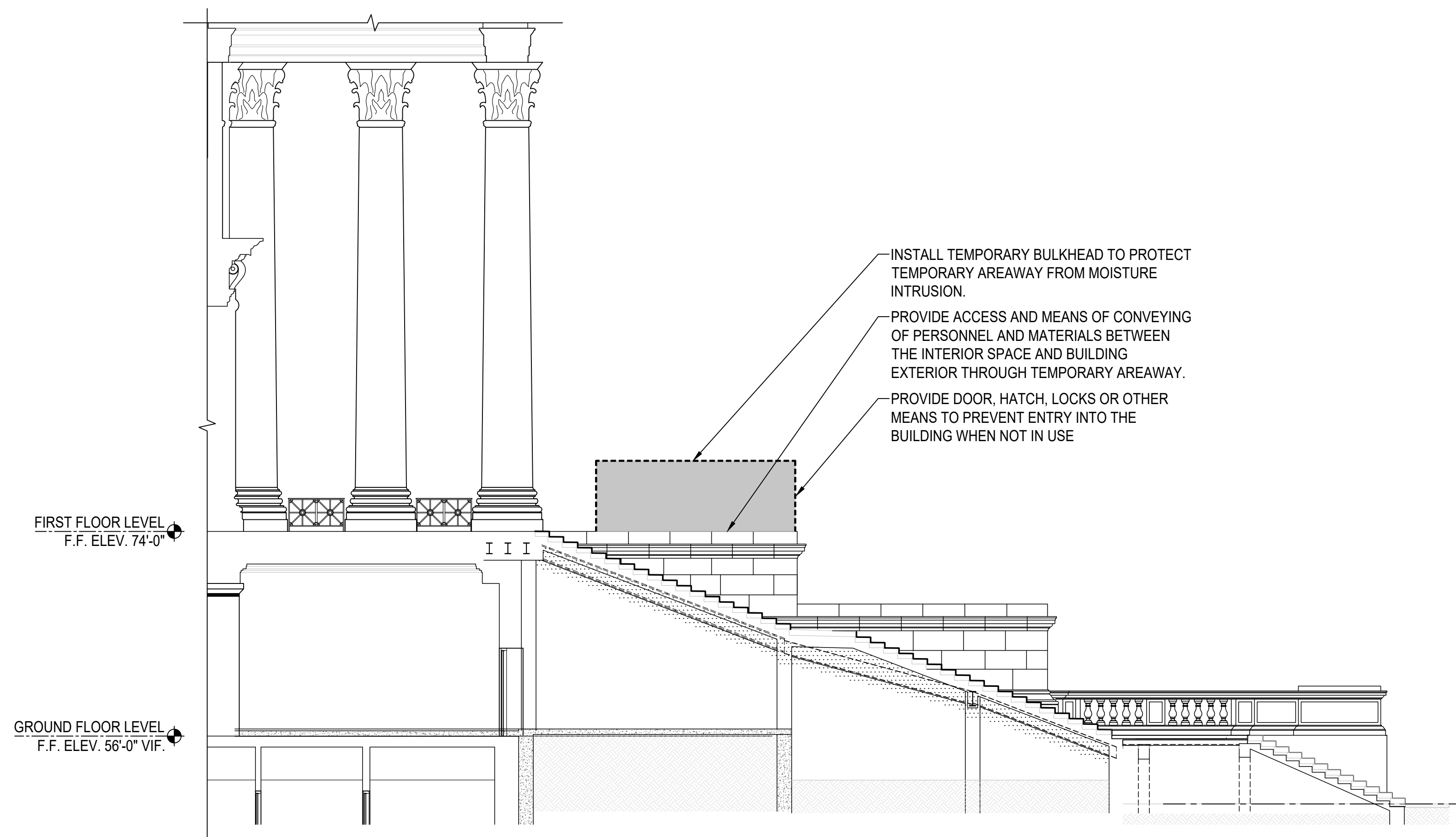
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G1.04



1
G2.01

STAIR ELEVATION TEMPORARY PROTECTION

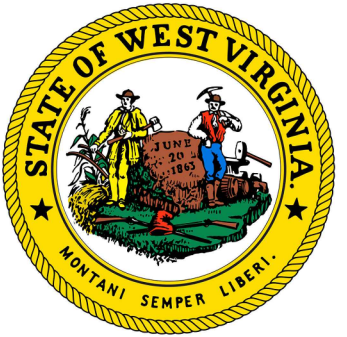
SCALE: 1/8"=1'-0"



2
G2.01

STAIR SECTION TEMPORARY PROTECTION

SCALE: 1/8"=1'-0"



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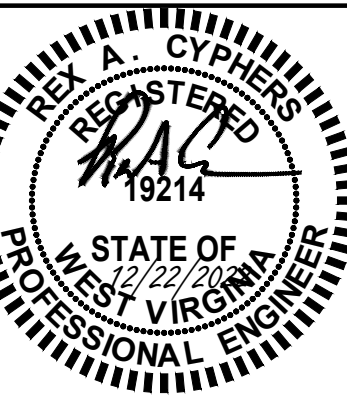
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SUBMISSION DATE 12/22/22

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DESIGN PBD

DRAFT DT

CHECK RAC

SHEET NAME

TEMPORARY
PROTECTION
ELEVATIONS

SHEET NUMBER

G2.01

KEY LEGEND	
	GYPSUM BOARD AND LIGHT GAGE FRAMING REMOVAL
	DUPLEX RECEPTACLE
	PANEL BOARD
	PLASTER REMOVAL
	FLUORESCENT LIGHT FIXTURE



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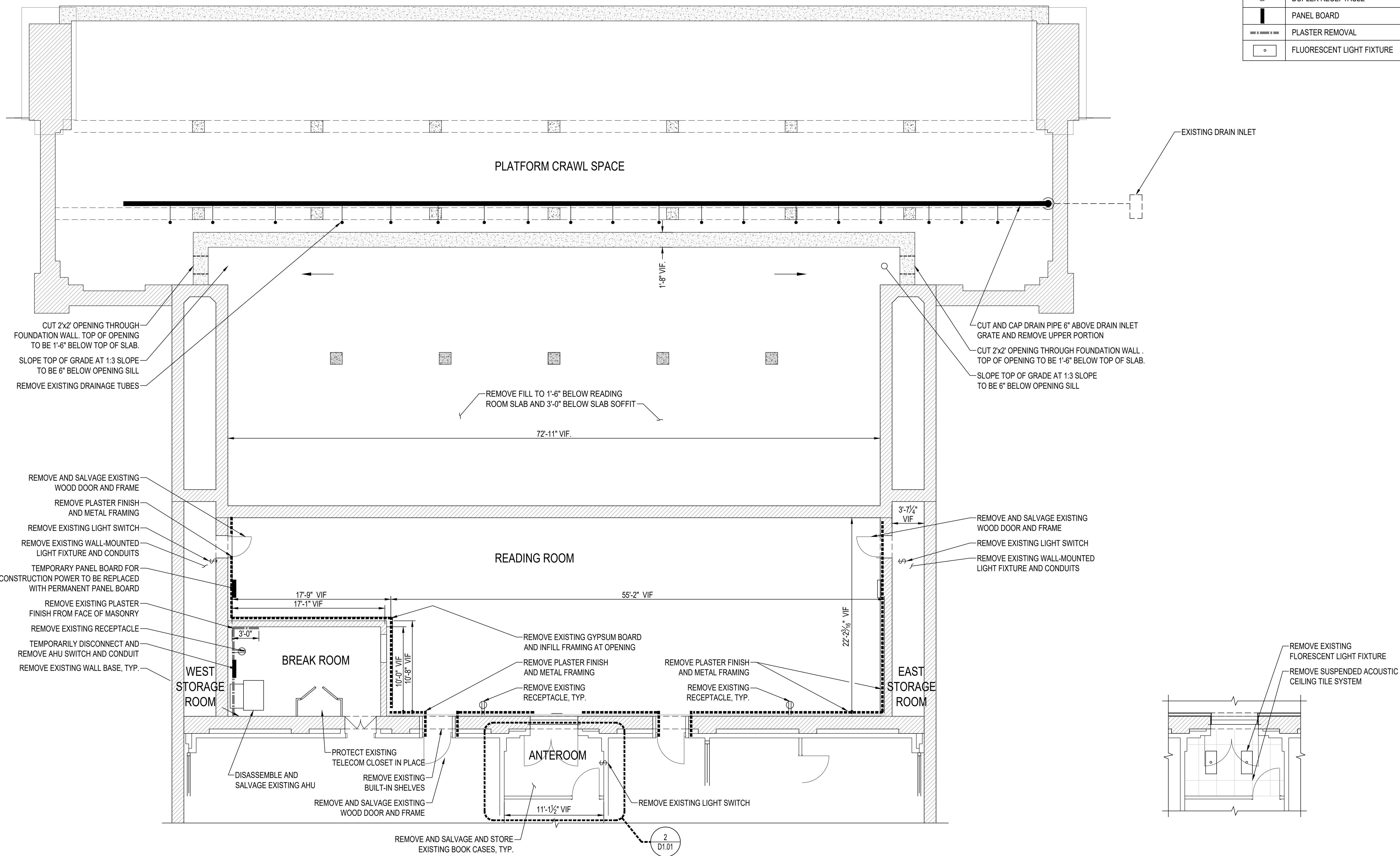
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 CHARLESTON, WV
 NORTH STAIR REPAIR - PHASE II

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SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME
GROUND FLOOR DEMO PLAN

SHEET NUMBER
D1.01



1

D1.01

GROUND FLOOR DEMOLITION PLAN

SCALE: 3/16"=1'-0"

PLAN NORTH






2

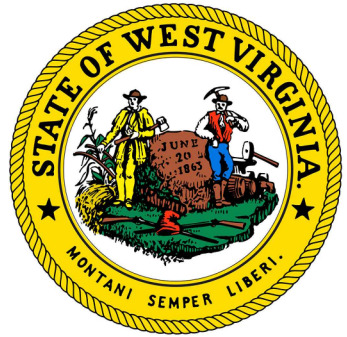
D1.01

ANTEROOM DEMOLITION RCP

SCALE: 3/16"=1'-0"

PLAN NORTH

KEY LEGEND	
	CONCRETE SLAB TO BE REMOVED
	EXISTING CONCRETE WALL TO REMAIN
	EXISTING MASONRY WALL TO REMAIN
	CATALOG, REMOVE, AND SALVAGE EXISTING LIMESTONE PAVERS
	REMOVE AND SALVAGE EXISTING CONCRETE PAVERS AND EXCAVATE TO DEPTH SHOWN IN DETAILS



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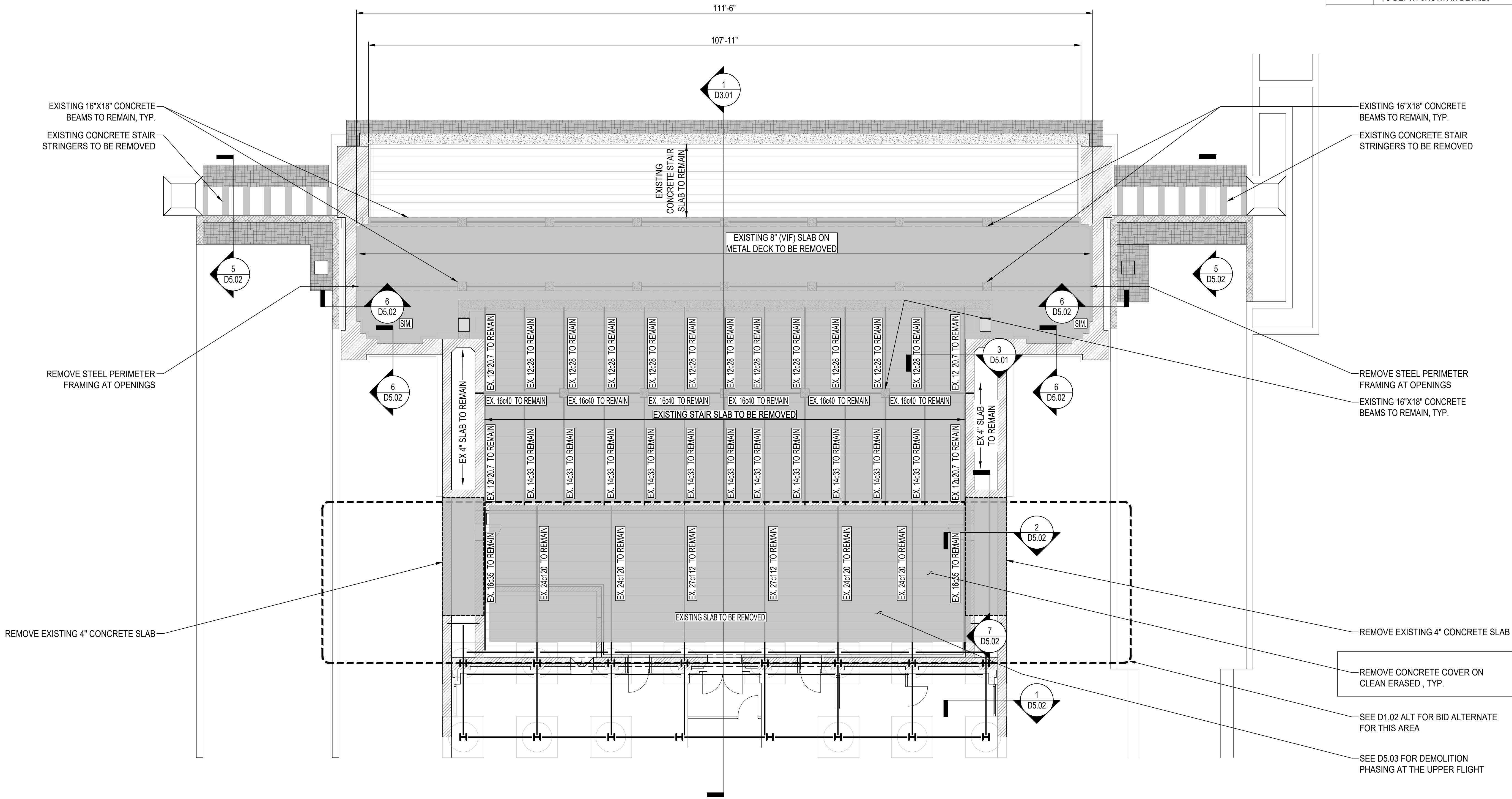


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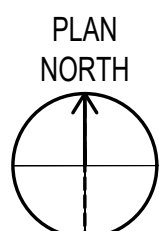
REVISIONS	
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
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DRAFT	DT
CHECK	RAC

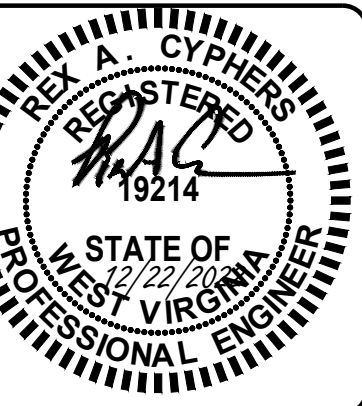
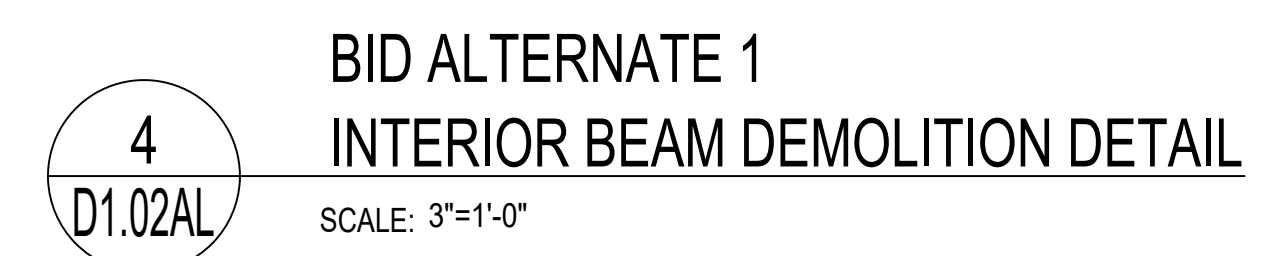
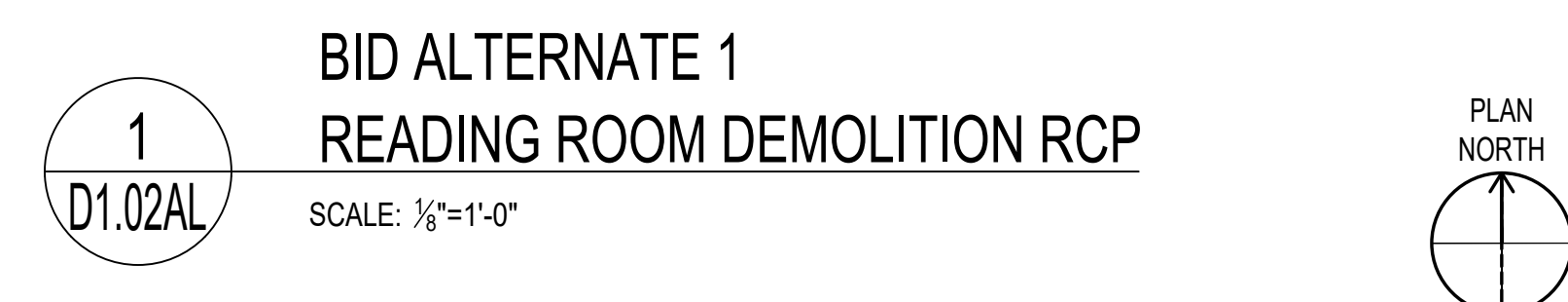
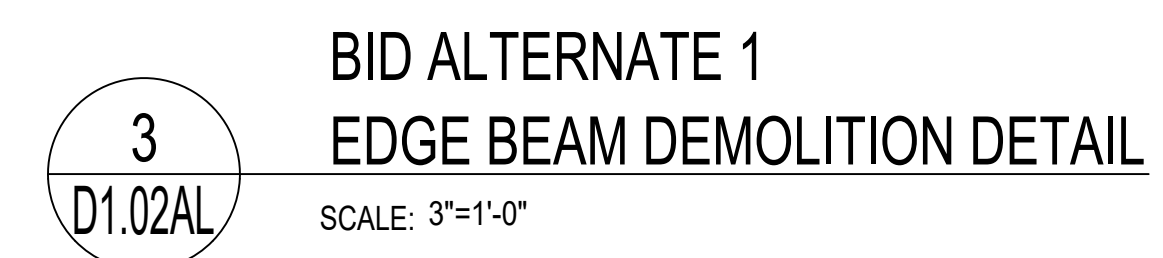
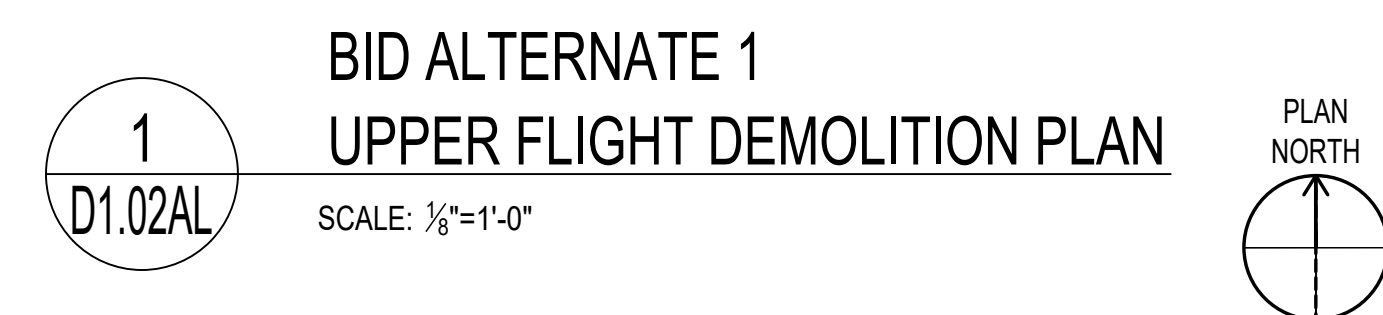
SHEET NAME
**STAIR
FRAMING
DEMO. PLAN**

SHEET NUMBER
D1.02



1
D1.02
NORTH STAIR FRAMING DEMOLITION PLAN
SCALE: 1/8"=1'-0"





WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS	
SUBMISSION DATE 12/22/22	
DP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

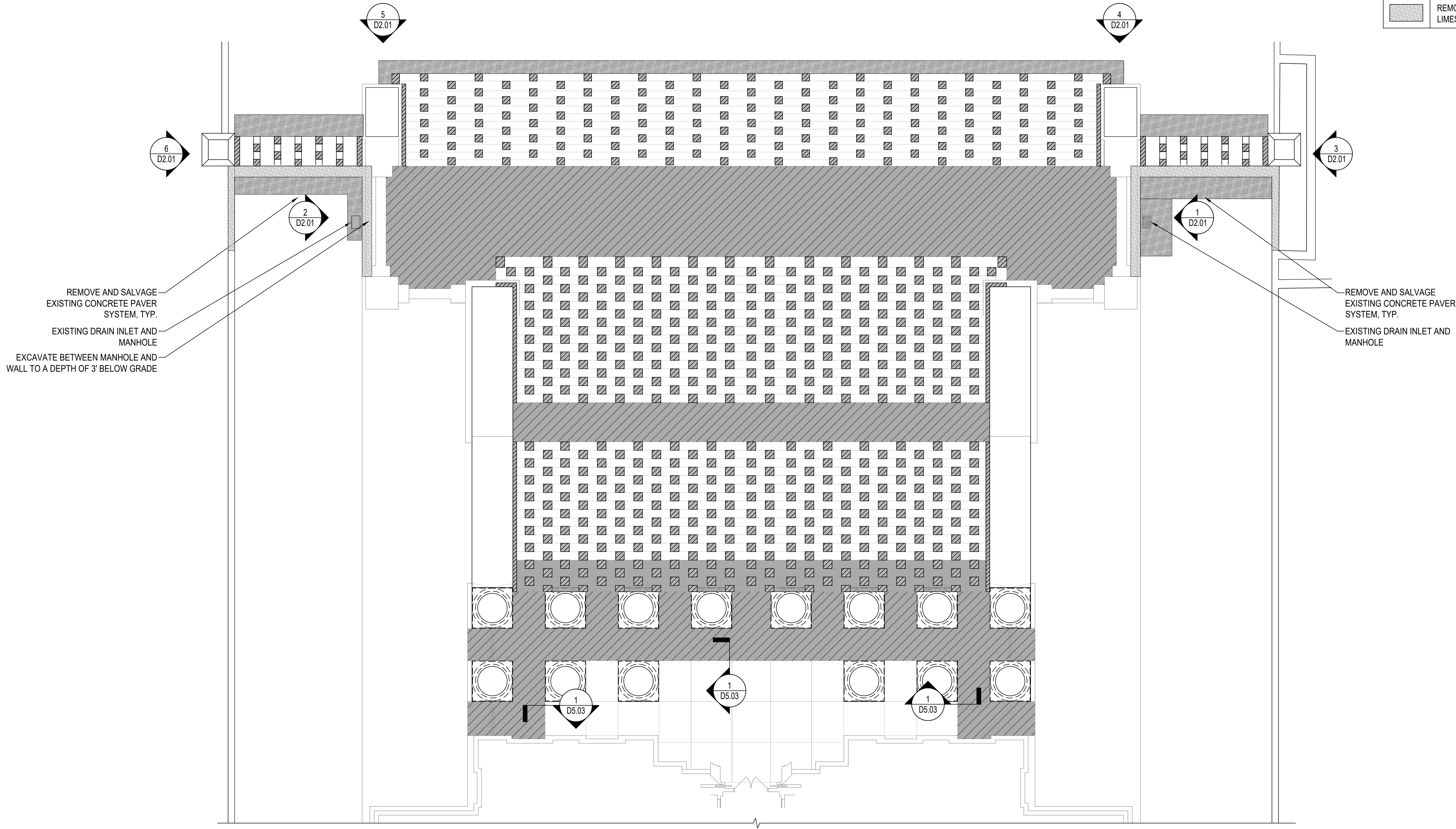
SHEET NAME

STAIR
FRAMING
DEMO. PLAN

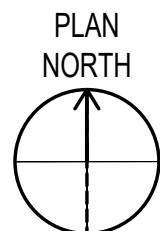
SHEET NUMBER

D1.02AL

KEY LEGEND	
	REMOVE AND SALVAGE EXISTING CONCRETE PAVER SYSTEM
	REMOVE EXISTING MEMBRANE WATERPROOFING
	REMOVE EXISTING MORTAR SETTING BED
	REMOVE AND DISCARD EXISTING BRICK PEDESTALS AND DEBRIS
	REMOVE AND SALVAGE EXISTING LIMESTONE PAVERS



1 NORTH STAIR DEMOLITION PLAN
D1.04 SCALE: 1/8"=1'-0"



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CHECK	RAC

SHEET NAME
NORTH STAIR
DEMOLITION
PLAN

SHEET NUMBER
D1.03

KEY LEGEND	
	UNIQUE STONE ID NUMBER
	EXISTING PANELS TO BE REMOVED AND SALVAGED
	EXISTING PANELS TO BE REMOVED AND REPLACED



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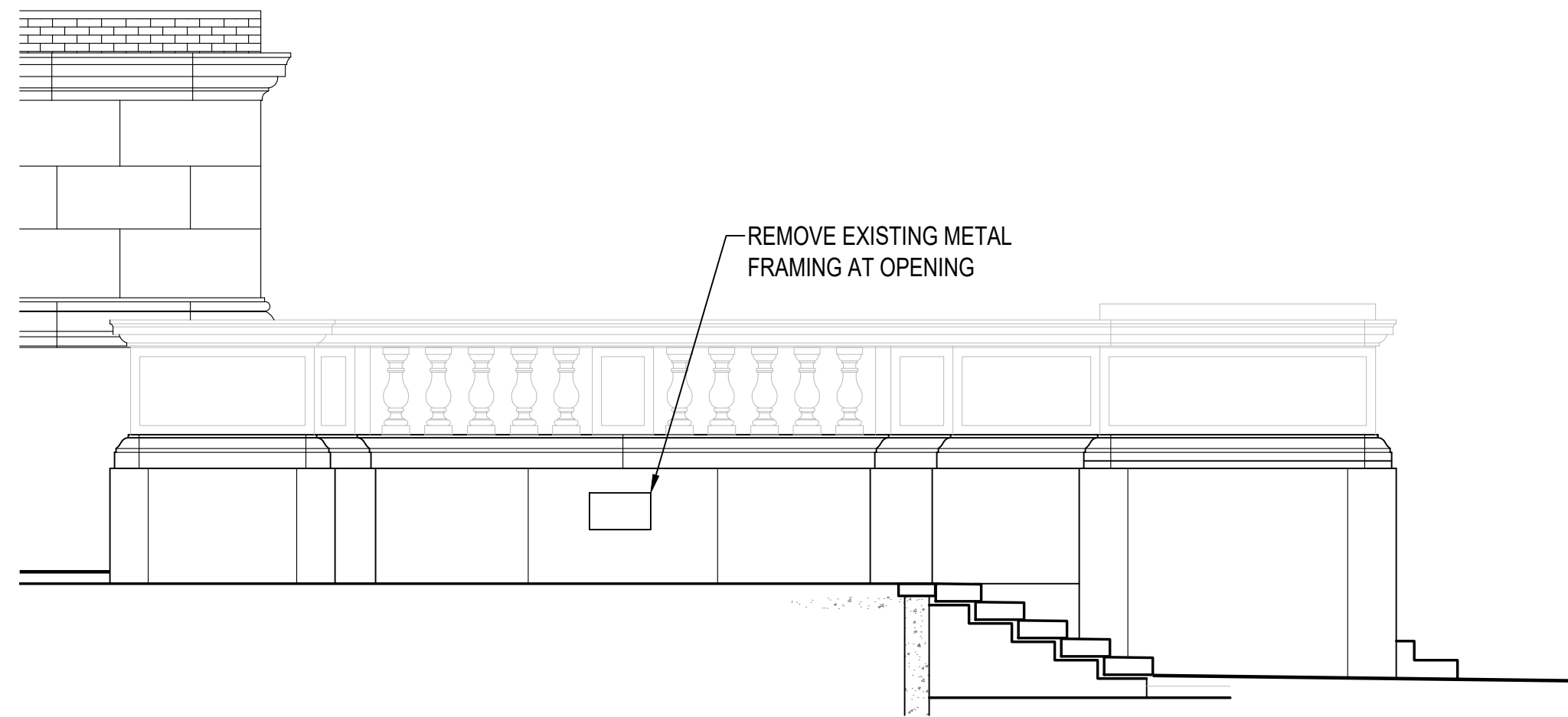
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CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

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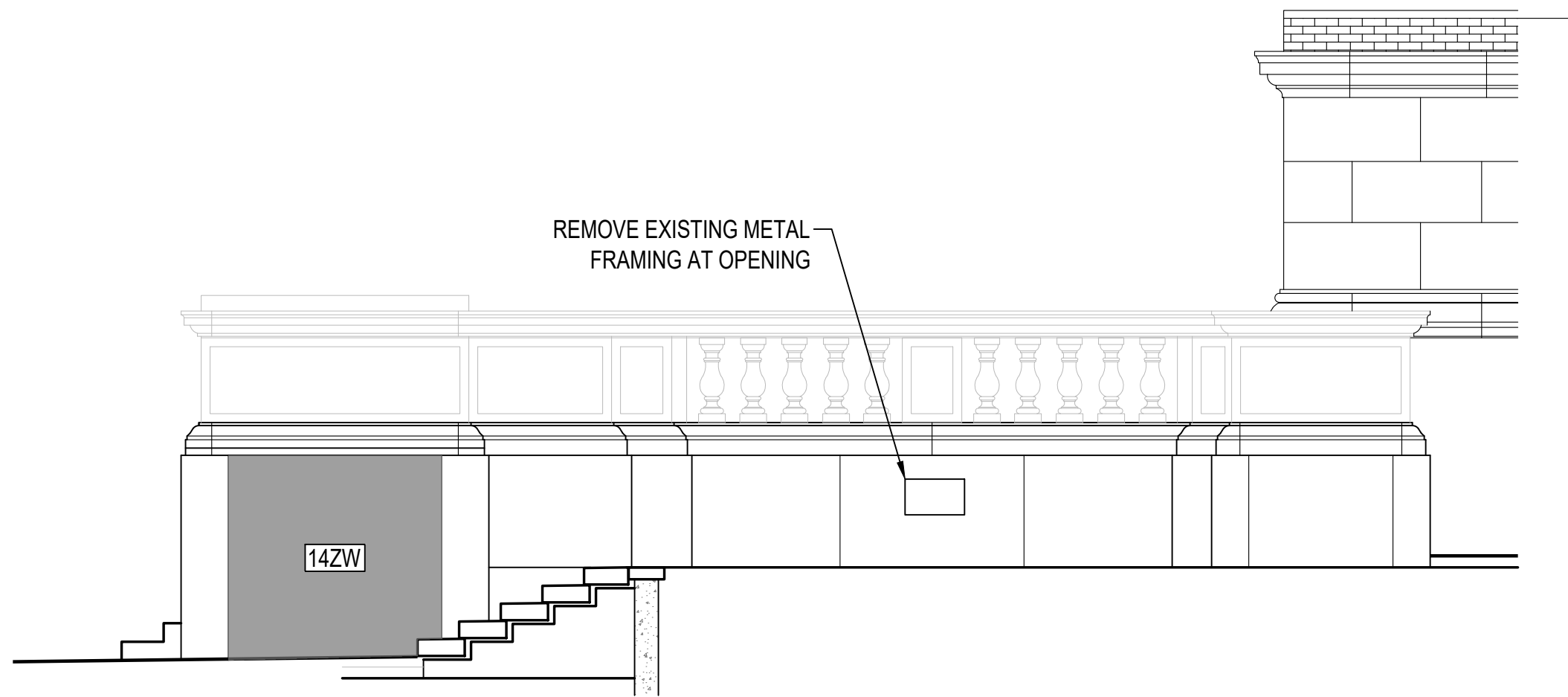
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DRAFT	DT
CHECK	RAC

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**ENLARGED
VIEWS AT
SIDE STAIRS**

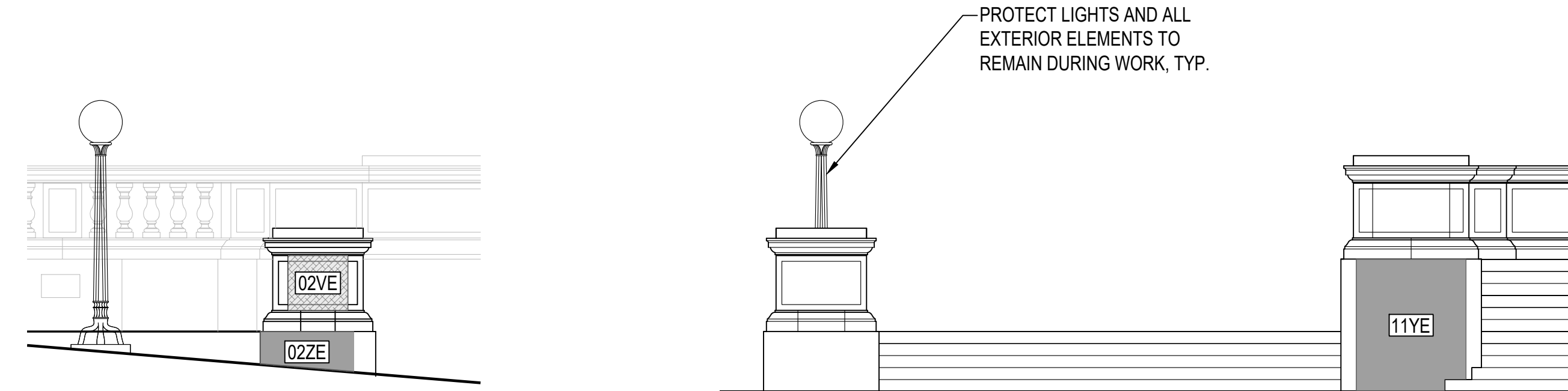
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D2.01



1
D2.01
PLATFORM PARTIAL EAST ELEVATION
SCALE: 1/4"=1'-0"

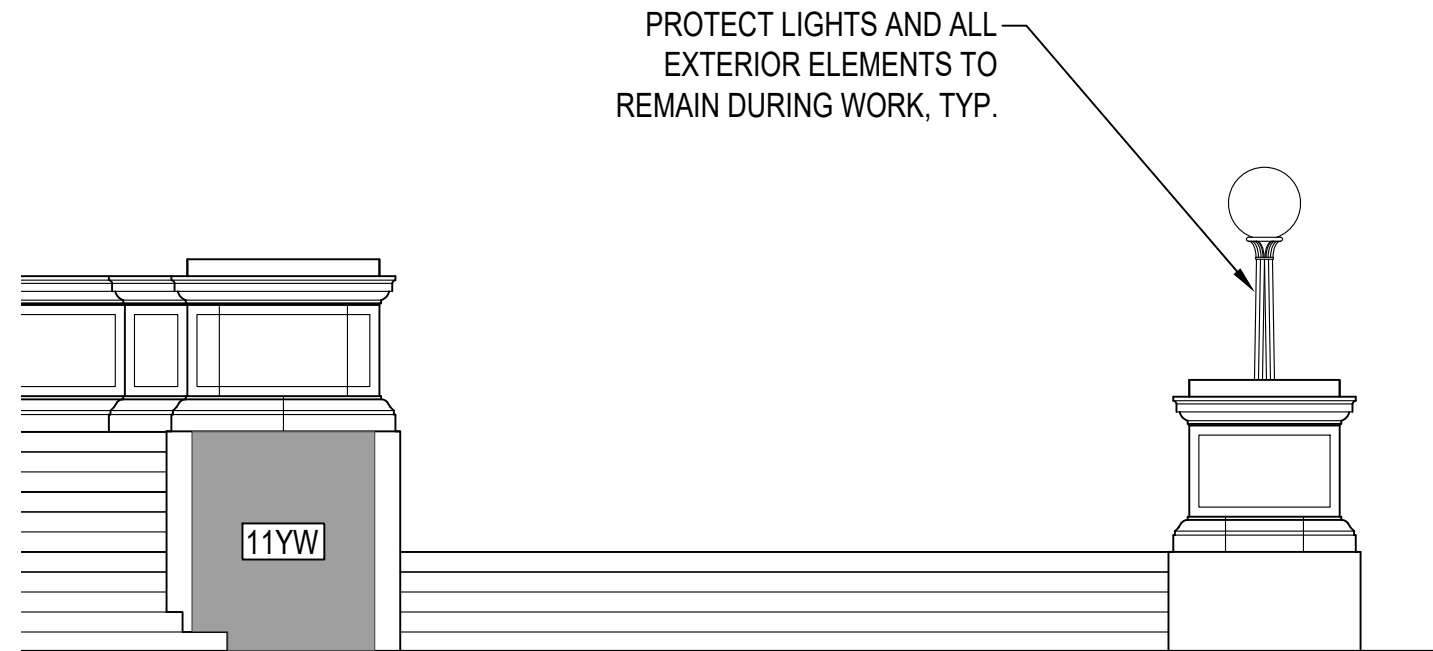


2
D2.01
PLATFORM PARTIAL WEST ELEVATION
SCALE: 1/4"=1'-0"

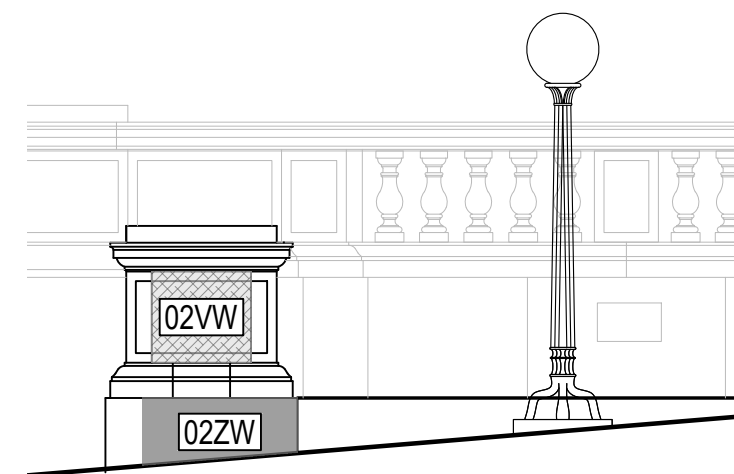


3
D2.01
EAST SIDE PIER
PARTIAL NORTH ELEVATION
SCALE: 1/4"=1'-0"

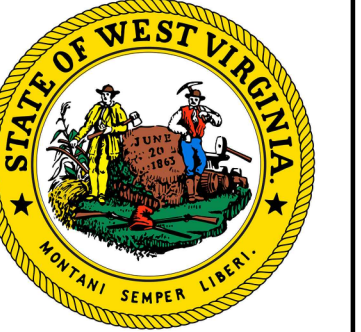
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EAST SIDE PIER
PARTIAL NORTH ELEVATION
SCALE: 1/4"=1'-0"



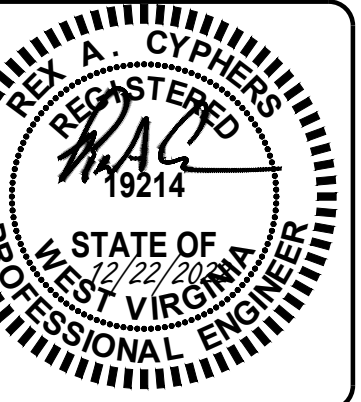
5
D2.01
WEST SIDE PIER
PARTIAL NORTH ELEVATION
SCALE: 1/4"=1'-0"



6
D2.01
WEST SIDE PIER
PARTIAL NORTH ELEVATION
SCALE: 1/4"=1'-0"



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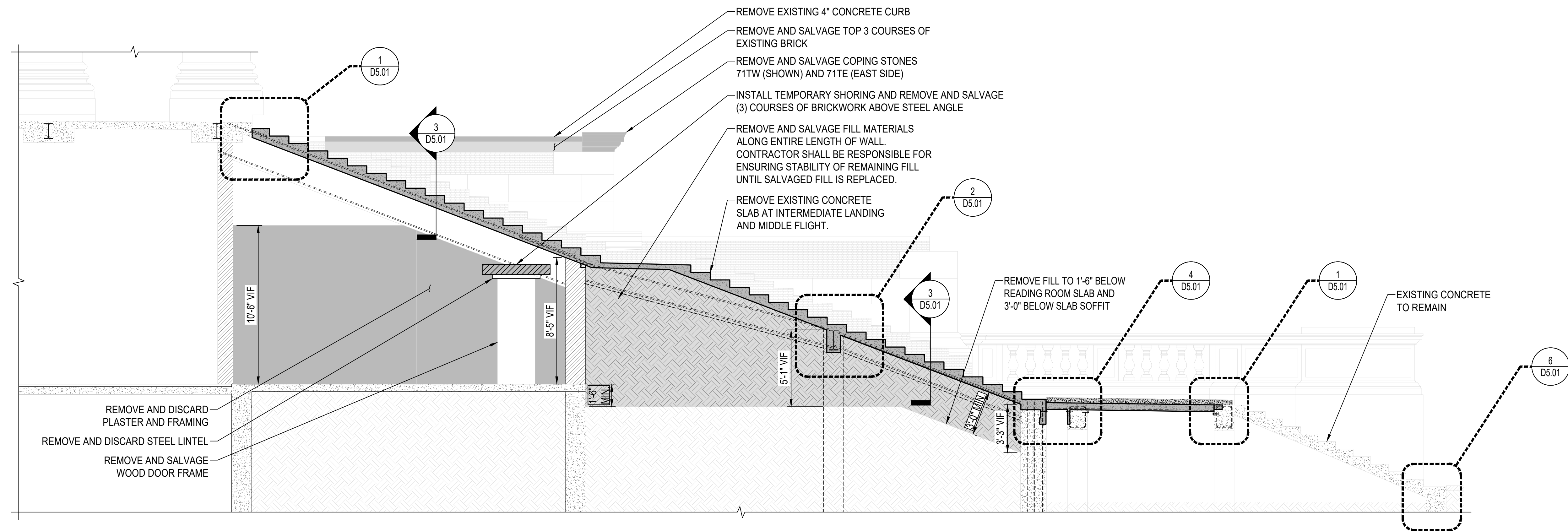
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SHEET NAME

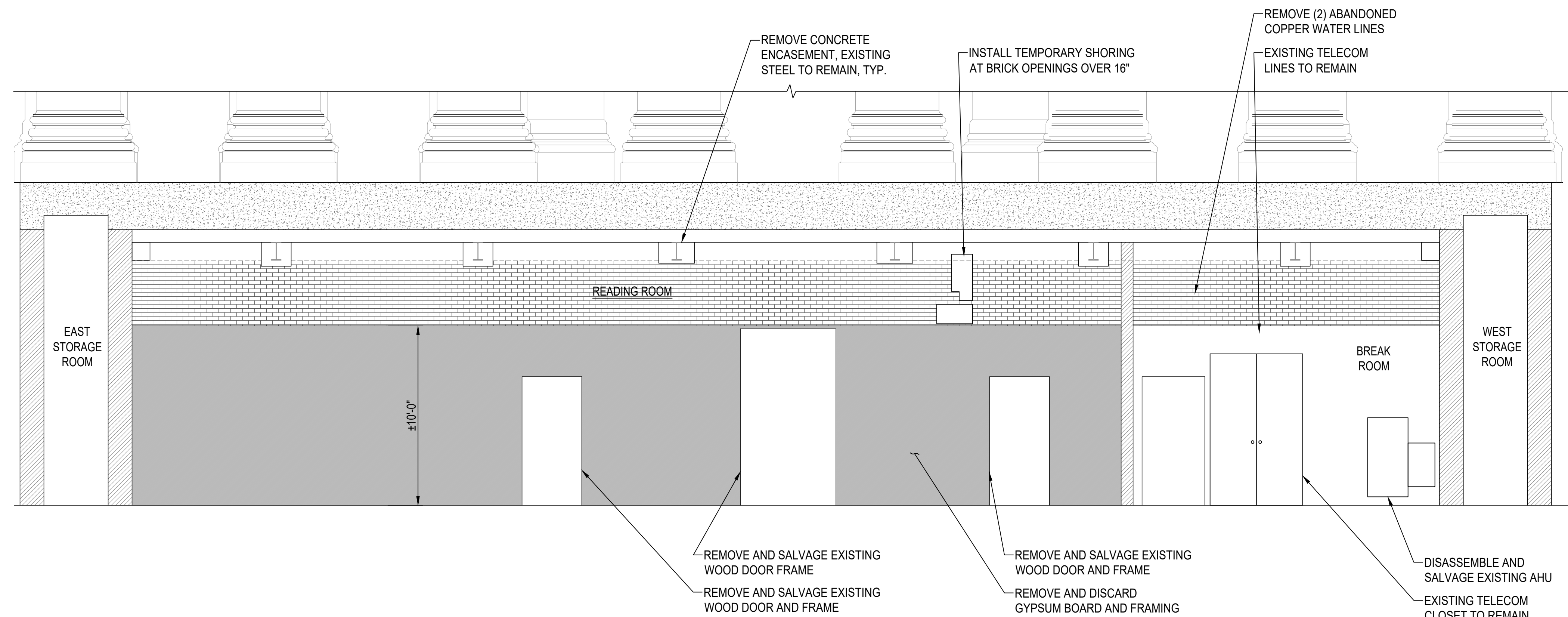
DEMOLITION
SECTION

SHEET NUMBER

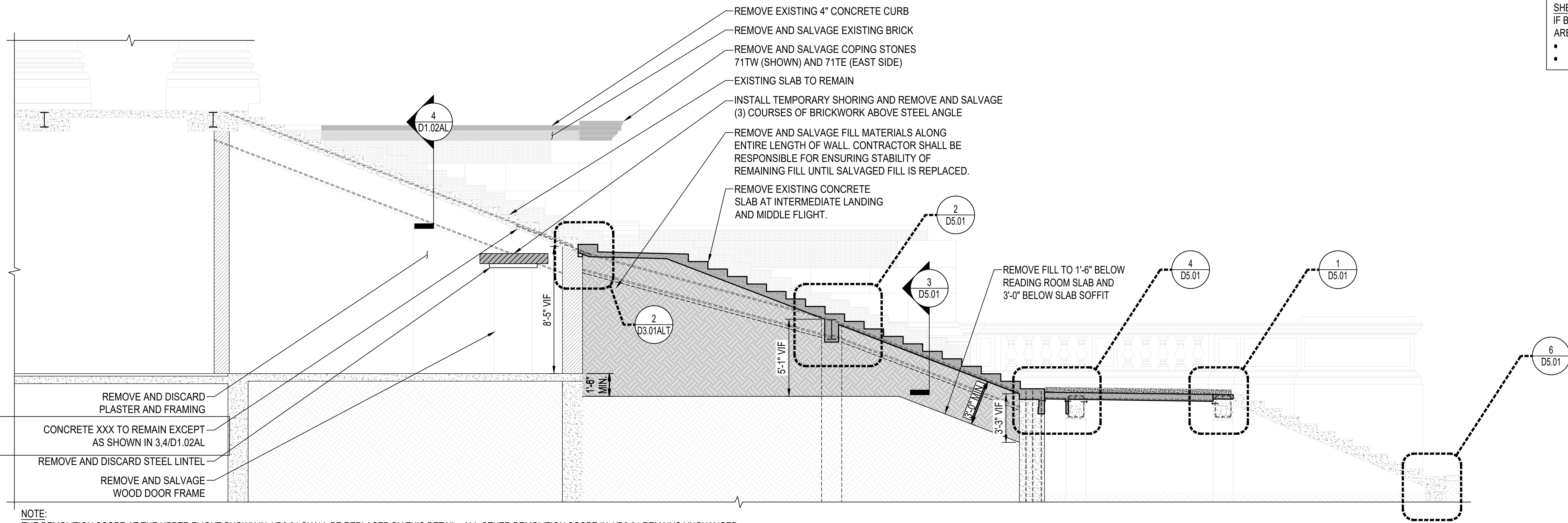
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D3.01
DEMOLITION SECTION
SCALE: 1/4"=1'-0"



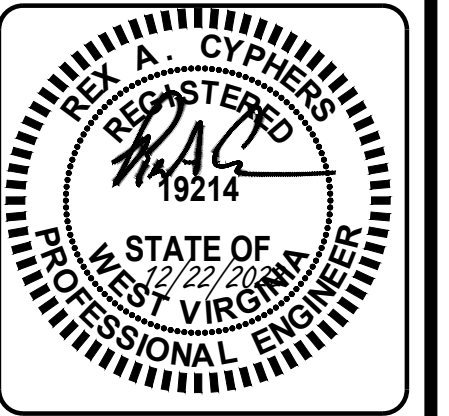
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D3.01
DEMOLITION SECTION
SCALE: 1/4"=1'-0"



SHEET NOTE:
IF BID ALTERNATE 1 IS ACCEPTED, THE FOLLOWING
ARE REMOVED FROM THE SCOPE OF WORK:
• DETAIL 1/D5.01
• SHEET D5.03



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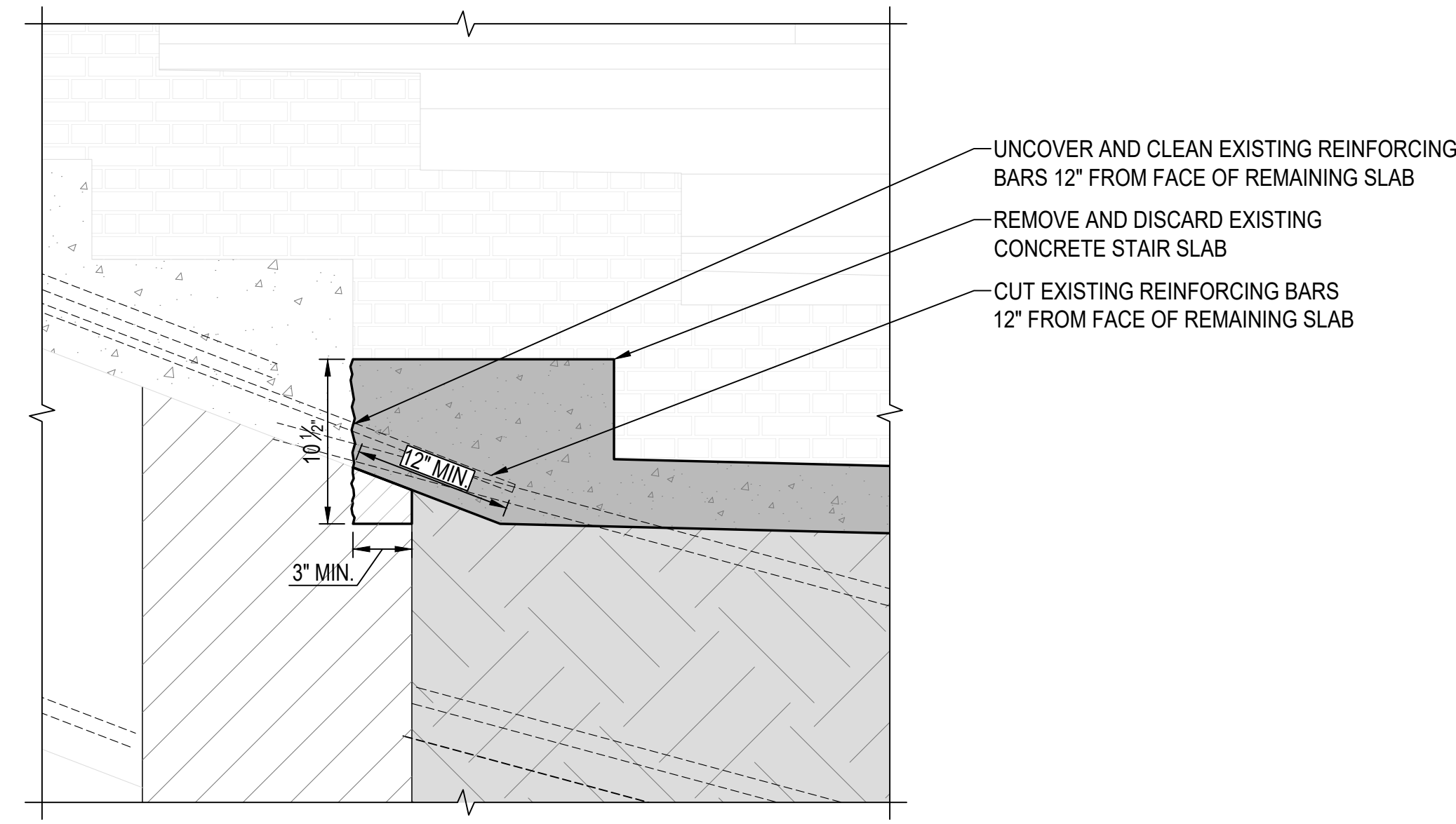
REVISIONS	

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CHECK	RAC

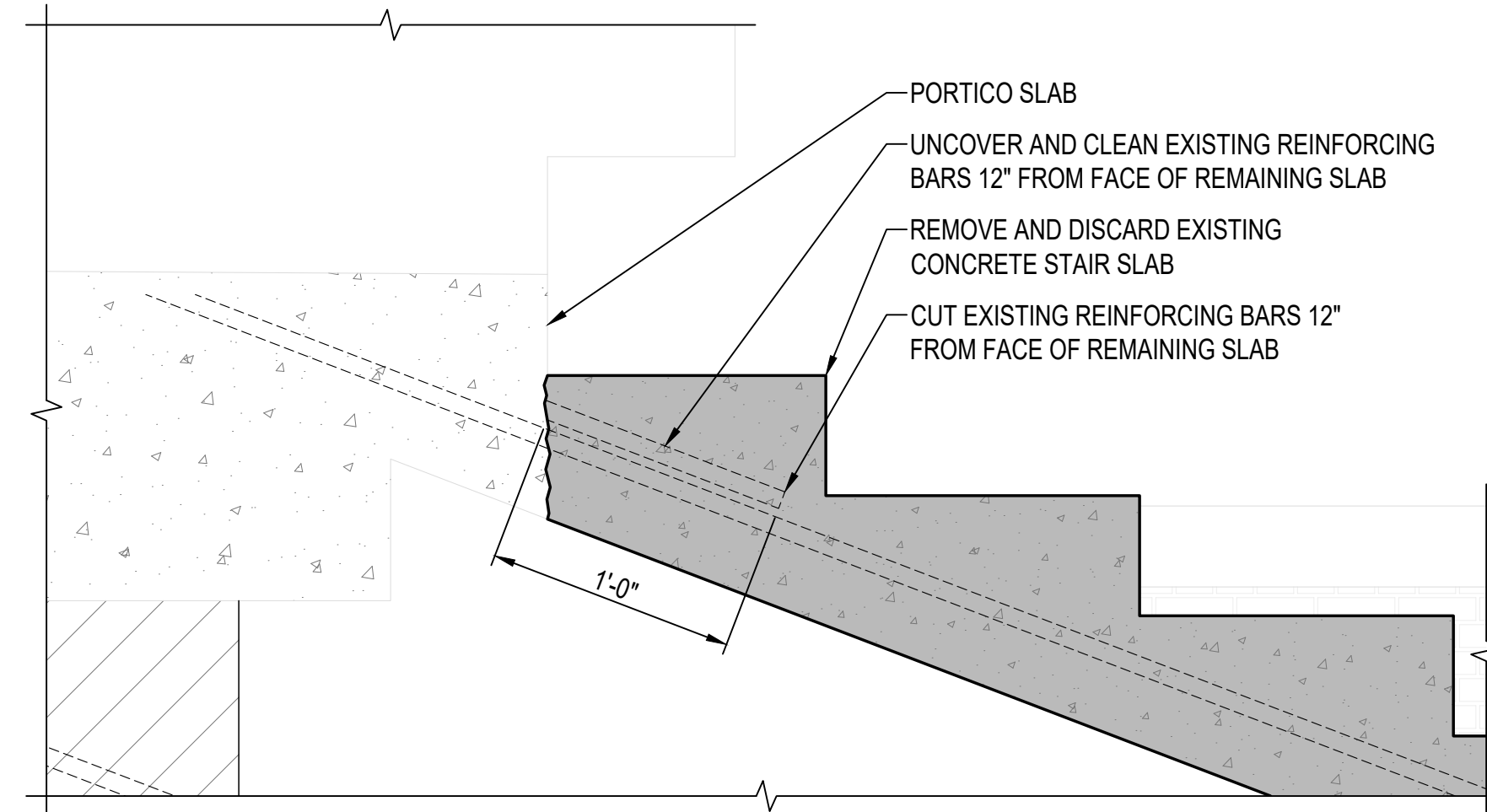
SHEET NAME
**DEMOLITION
SECTION**

SHEET NUMBER
D3.01AL

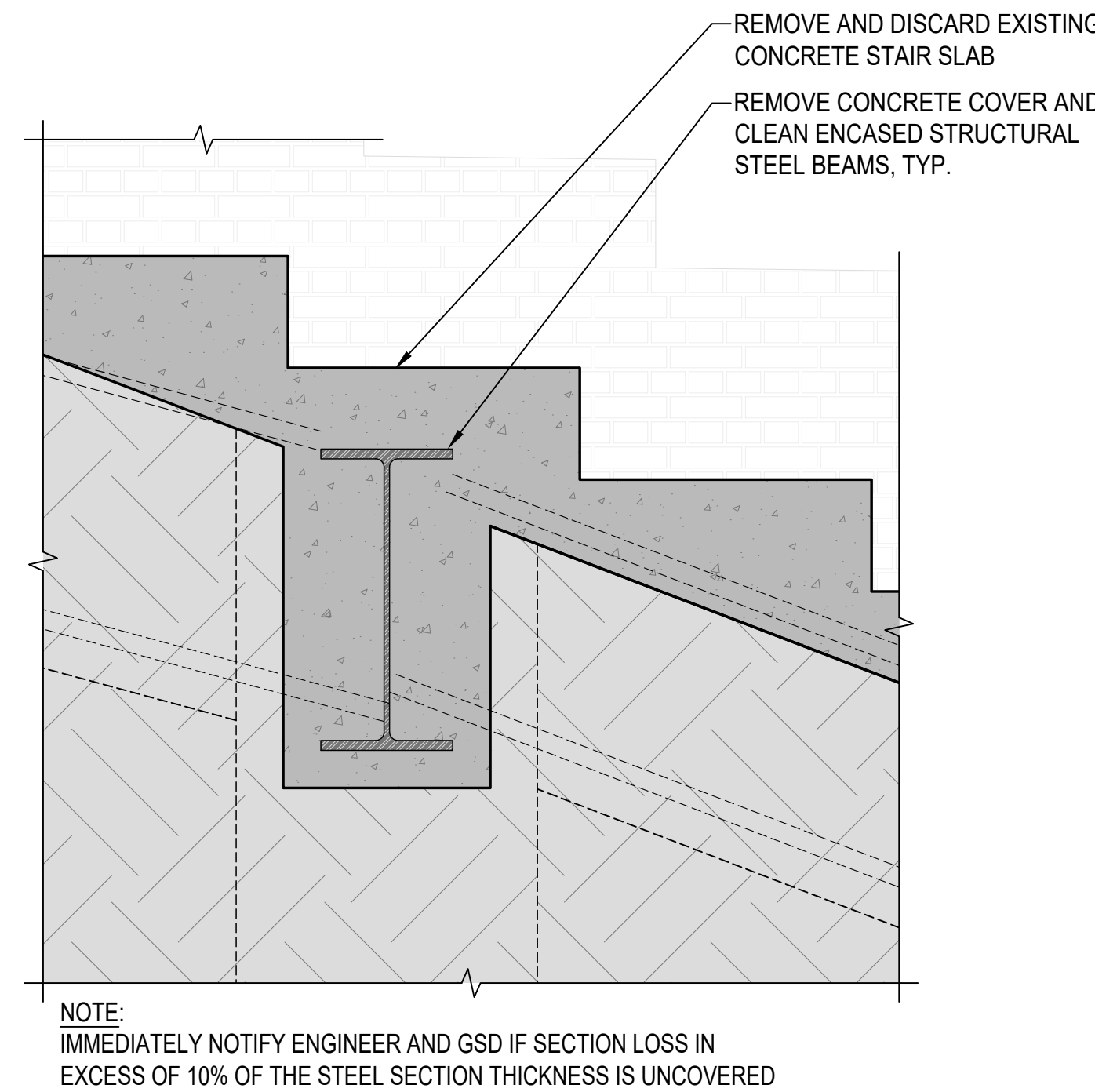
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D3.01AL
BID ALTERNATE 1
UPPER FLIGHT DEMOLITION SECTION
SCALE: 1/8"=1'-0"



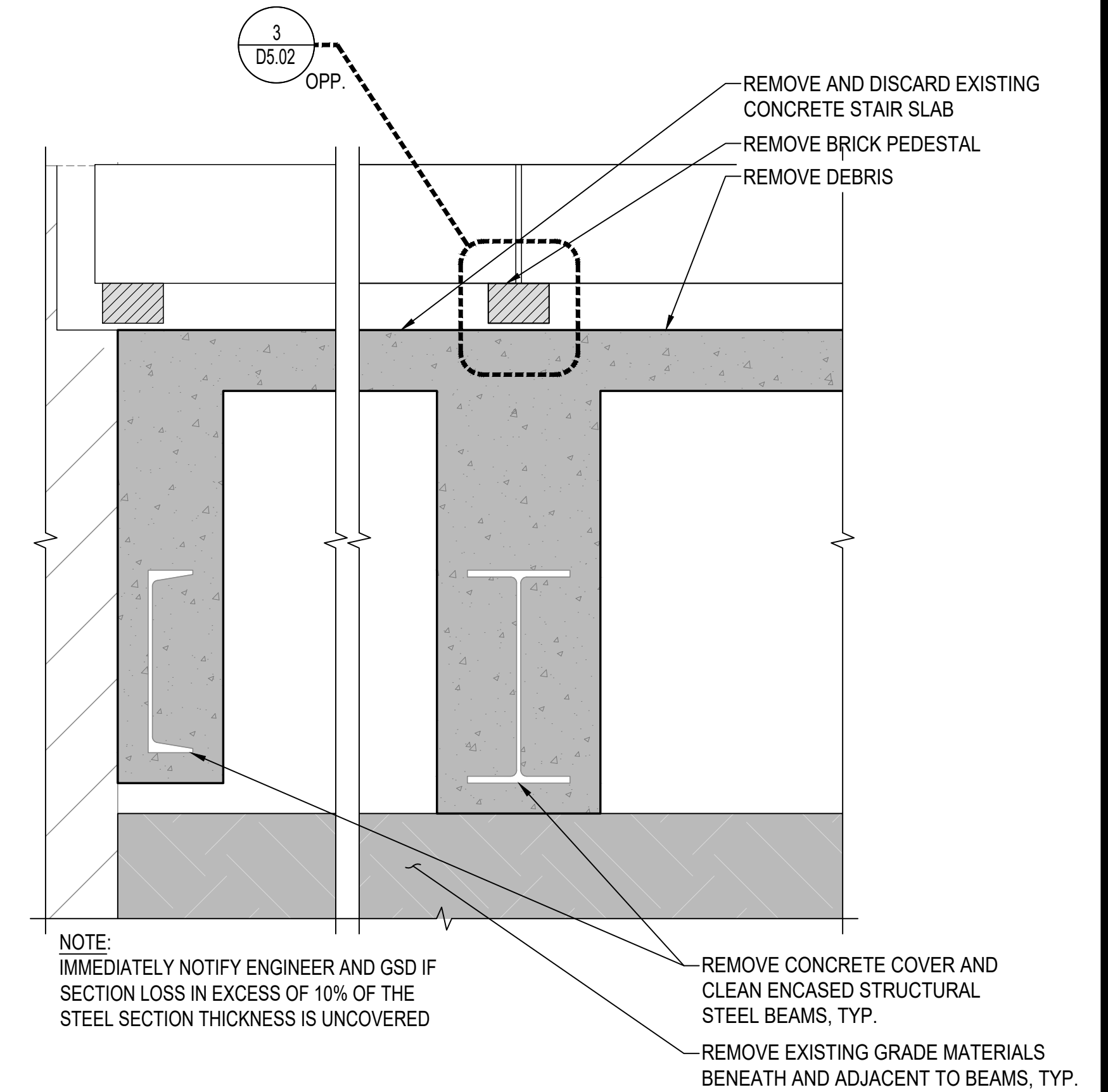
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D3.01AL
BID ALTERNATE 1
PLATFORM DEMOLITION SECTION
SCALE: 1/8"=1'-0"



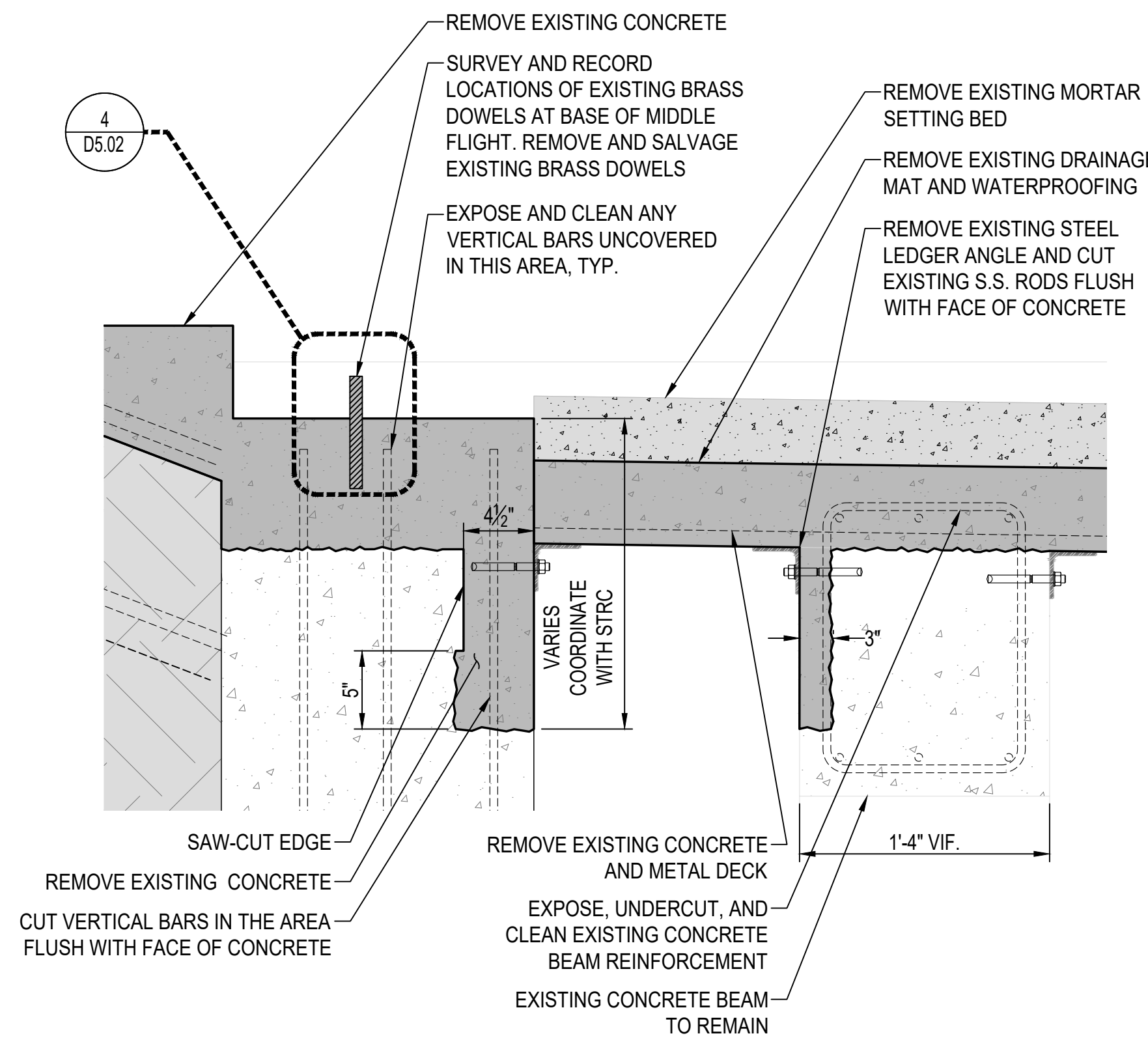
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D5.01
DEMOLITION SECTION AT TOP OF UPPER FLIGHT
SCALE: 1½"=1'-0"



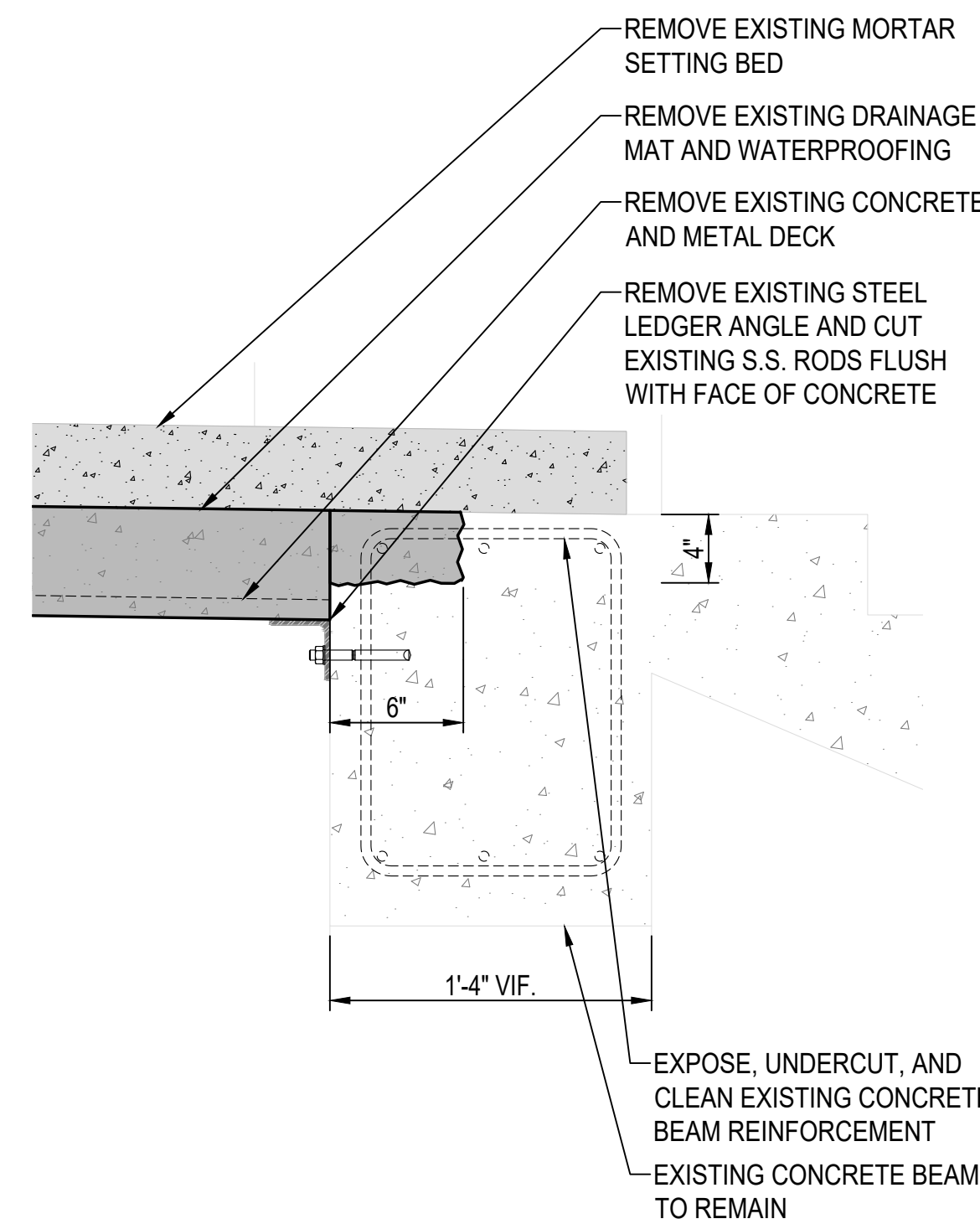
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D5.01
DEMOLITION SECTION AT INTERMEDIATE BEAMS
SCALE: 1½"=1'-0"



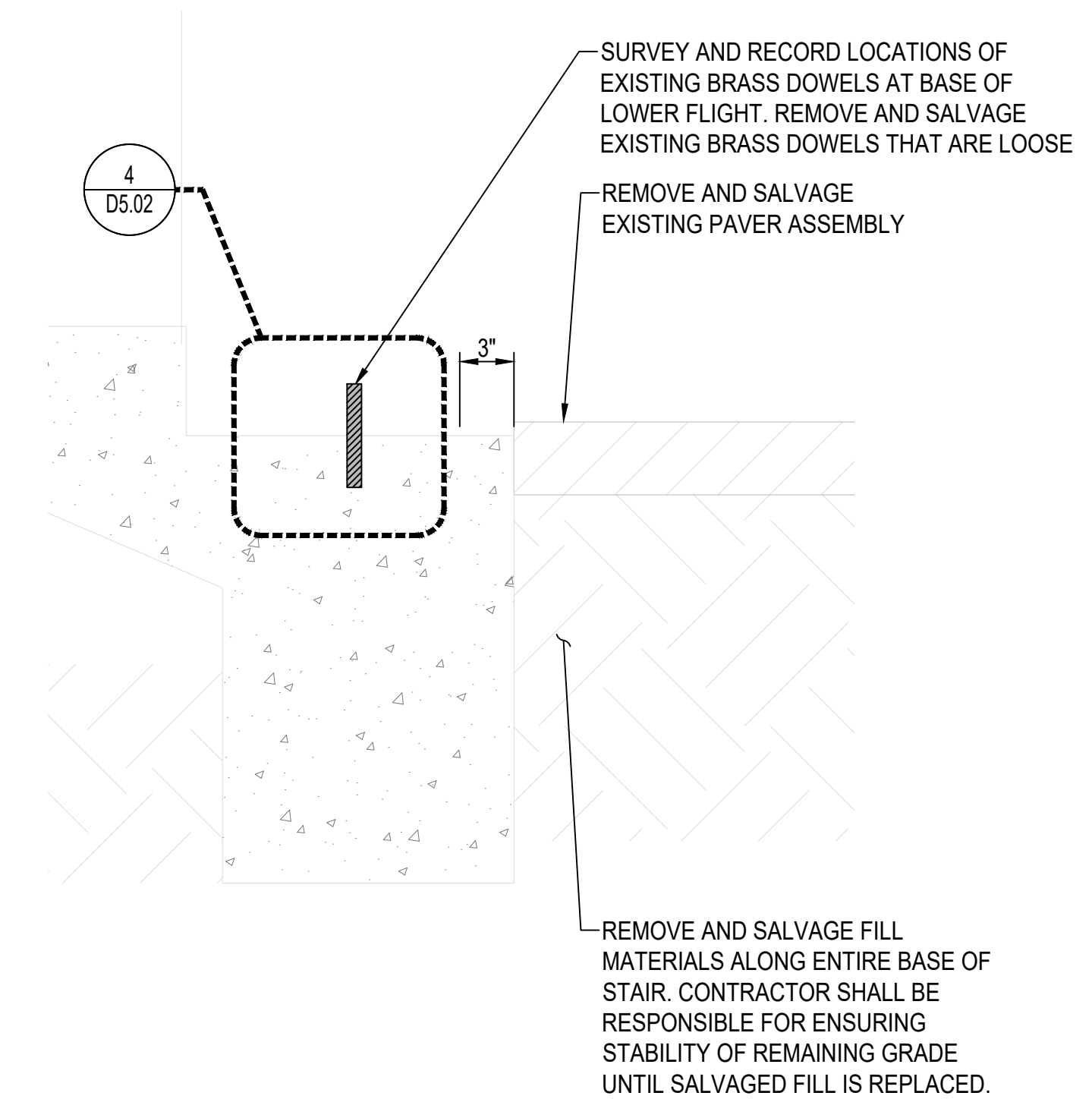
3
D5.01
TRANSVERSE DEMOLITION SECTION AT MIDDLE FLIGHT
SCALE: 1½"=1'-0"



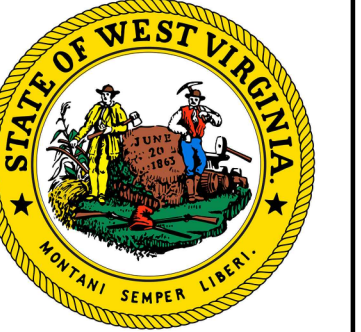
4
D5.01
DEMOLITION SECTION AT BASE OF MIDDLE FLIGHT
SCALE: 1½"=1'-0"



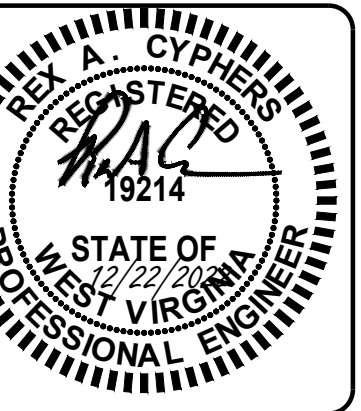
5
D5.01
DEMOLITION SECTION AT FRONT OF PLATFORM
SCALE: 1½"=1'-0"



6
D5.01
DEMOLITION SECITON AT BASE OF LOWER FLIGHT
SCALE: 1½"=1'-0"



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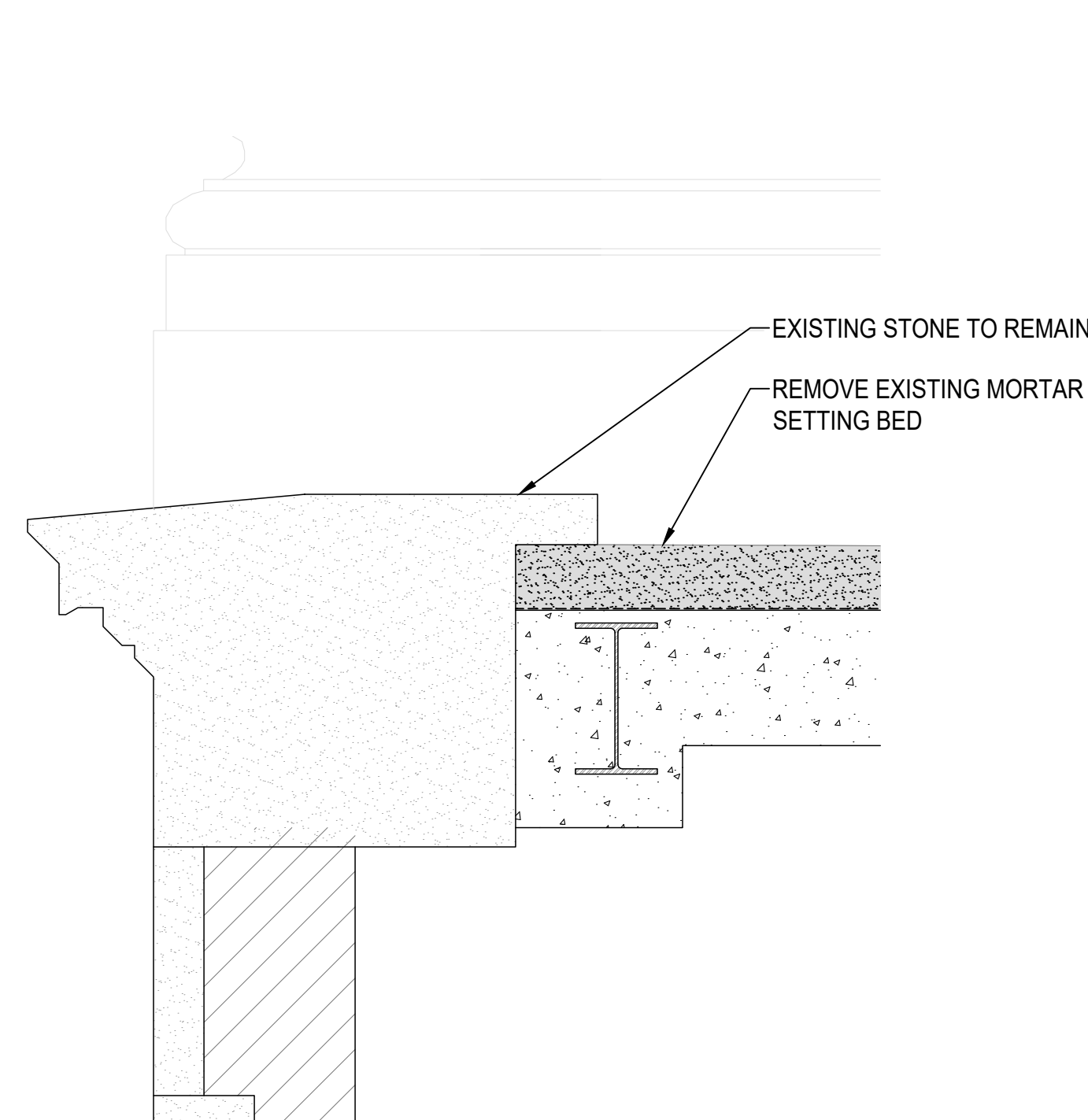
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME

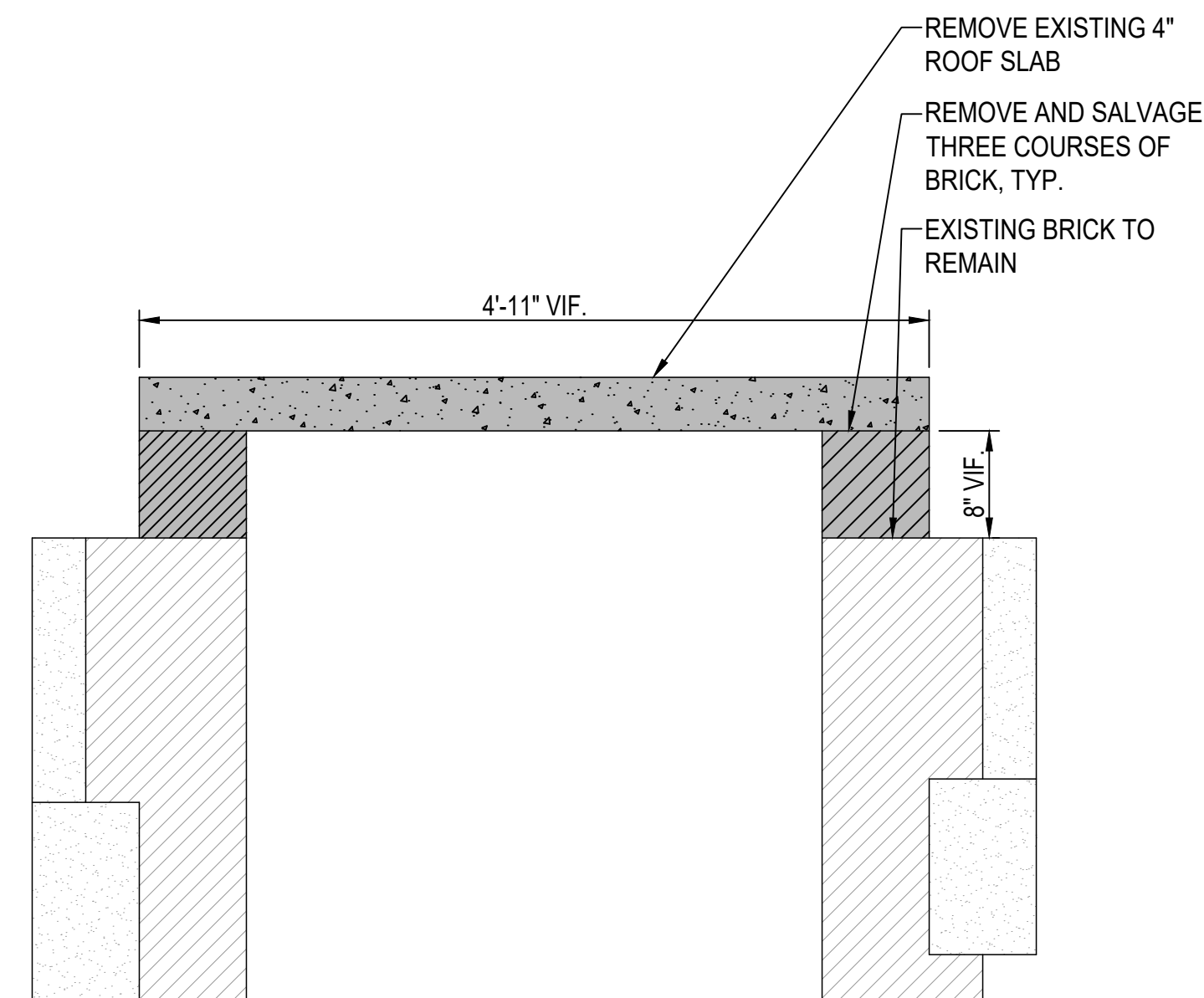
DEMOLITION
DETAILS

SHEET NUMBER

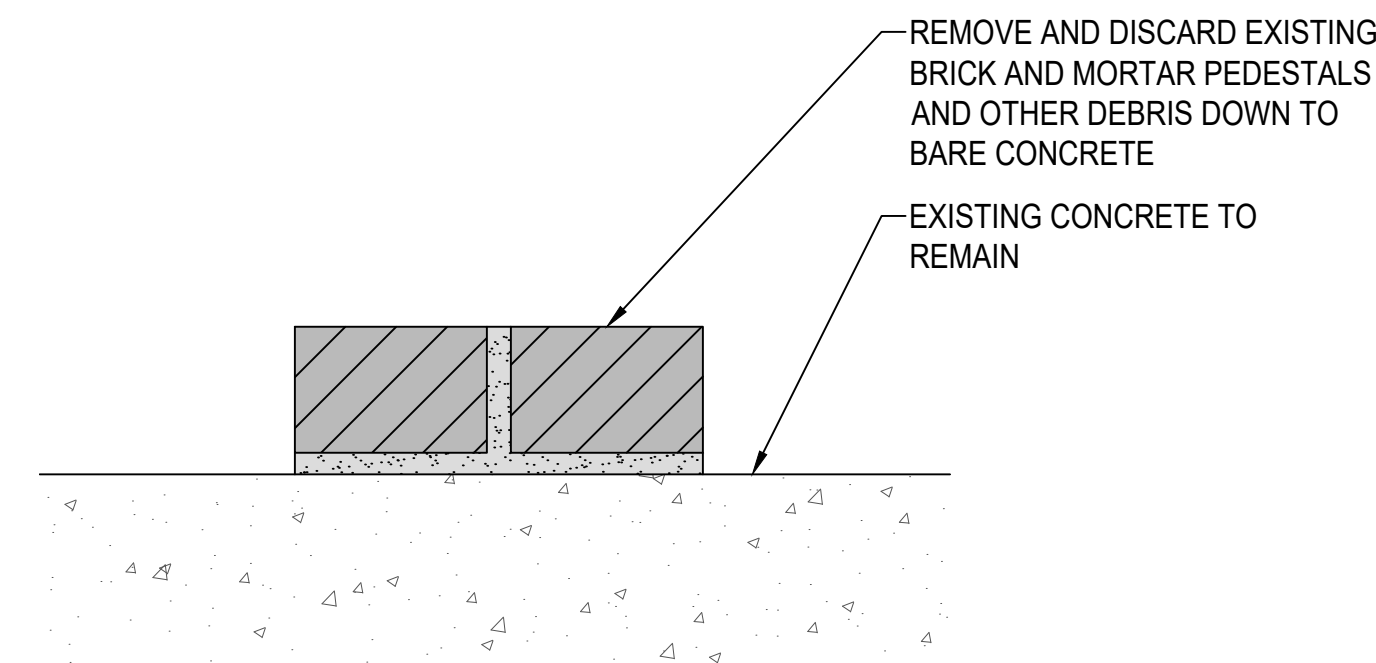
D5.01



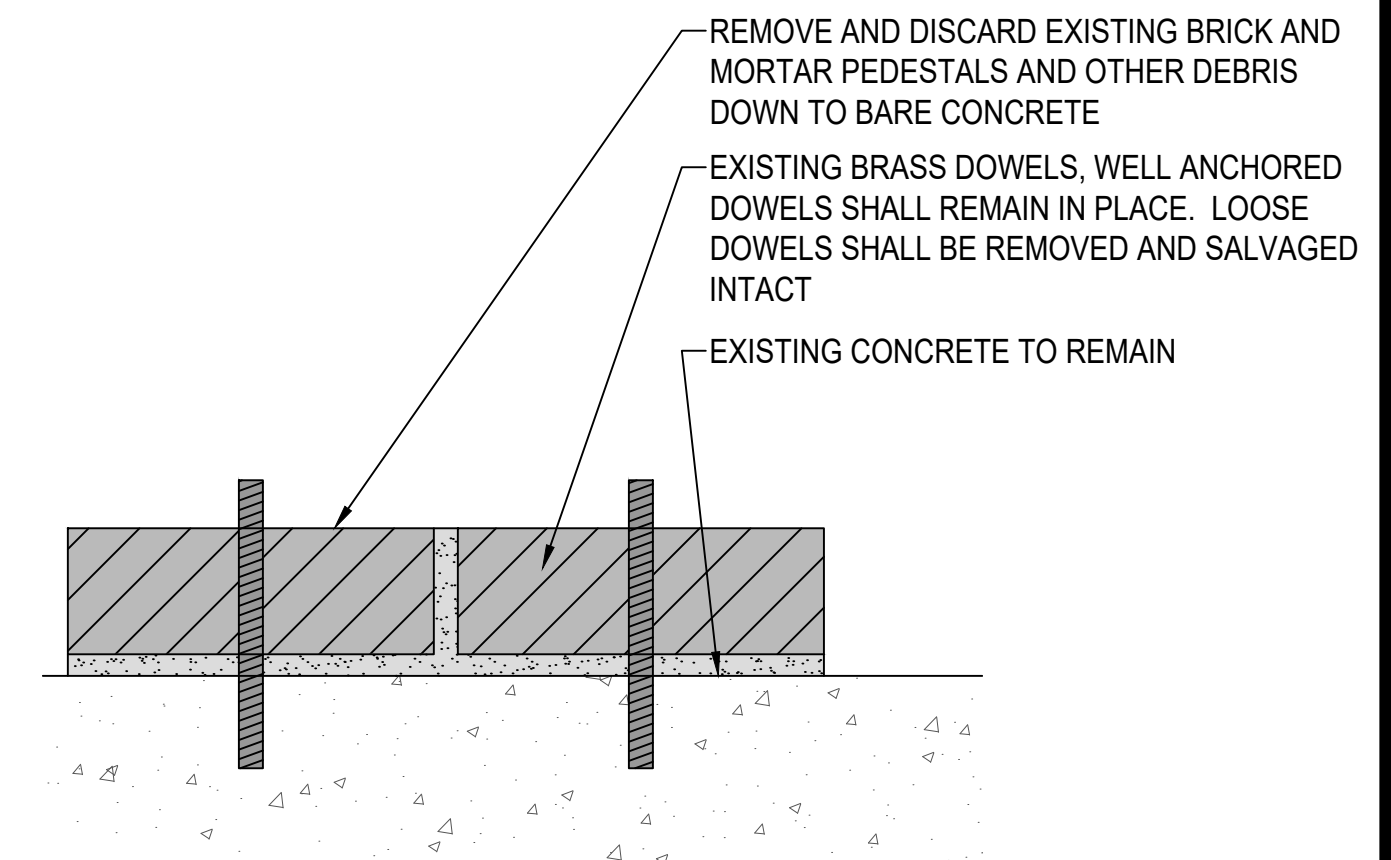
1 PORTICO EDGE DEMOLITION SECTION
D5.02 SCALE: 1½"=1'-0"



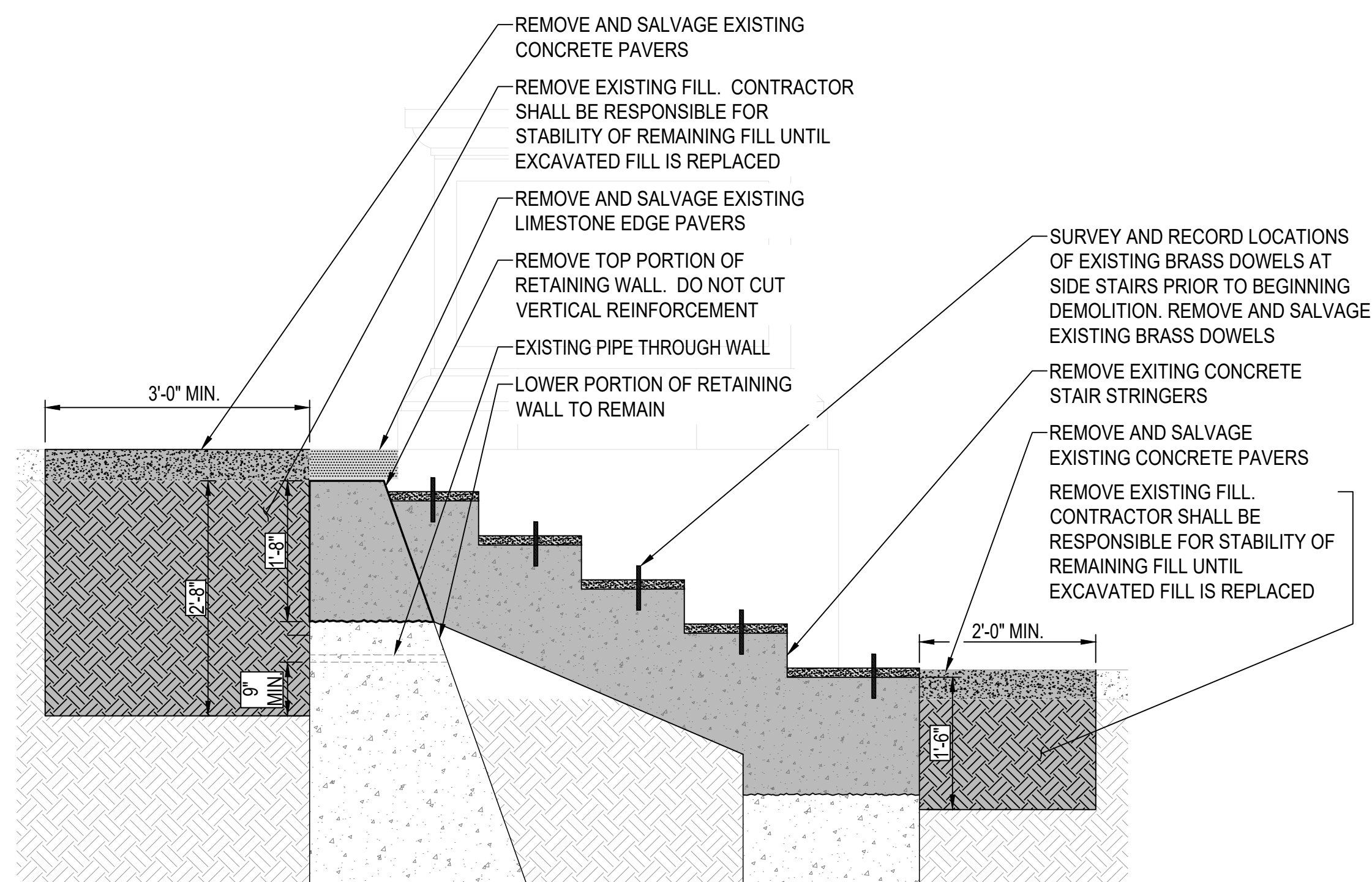
2 COPING SLAP DEMOLITION SECTION
D5.02 SCALE: 1½"=1'-0"



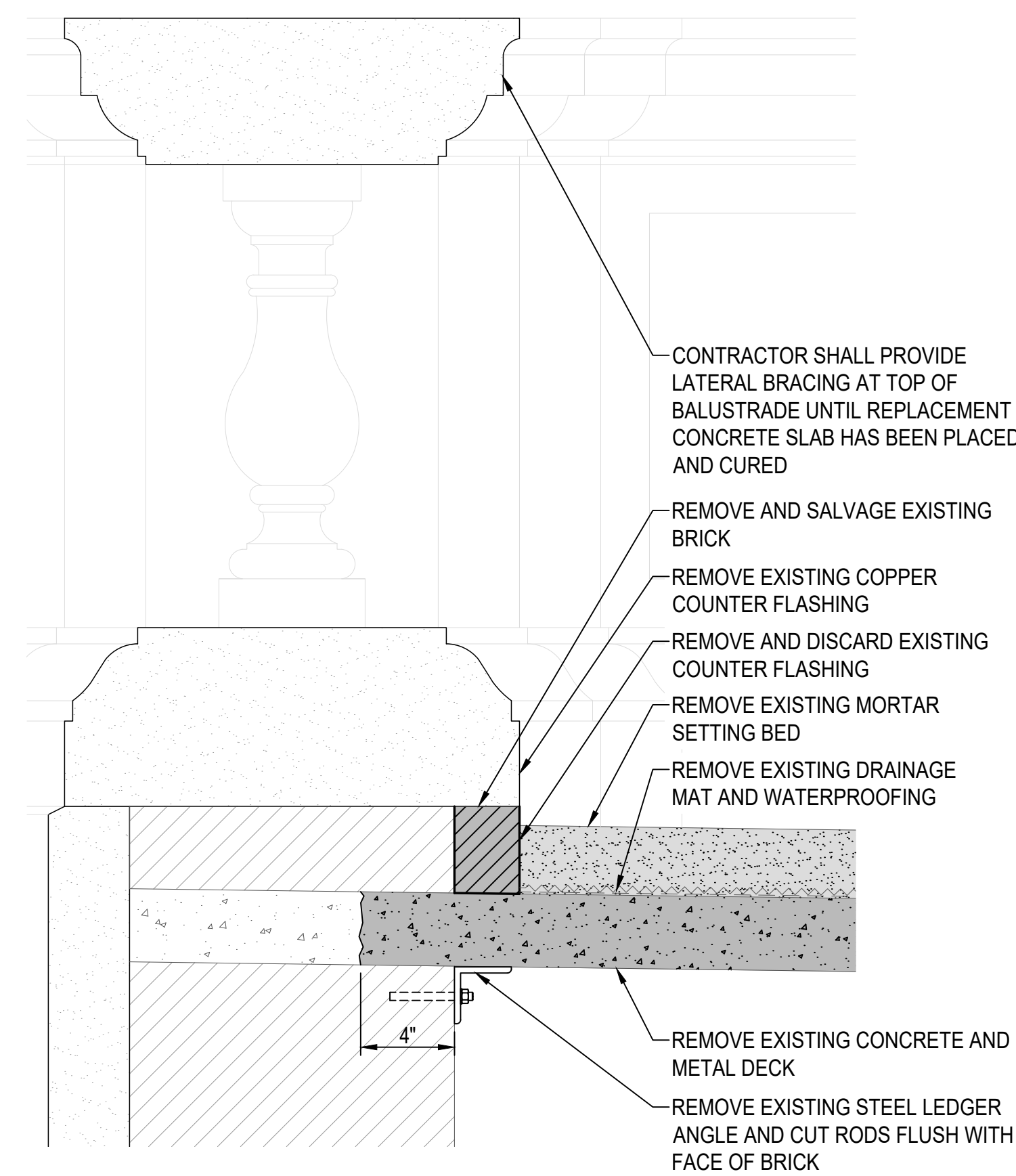
3 PEDESTAL DEMOLITION DETAIL
D5.02 SCALE: 1½"=1'-0"



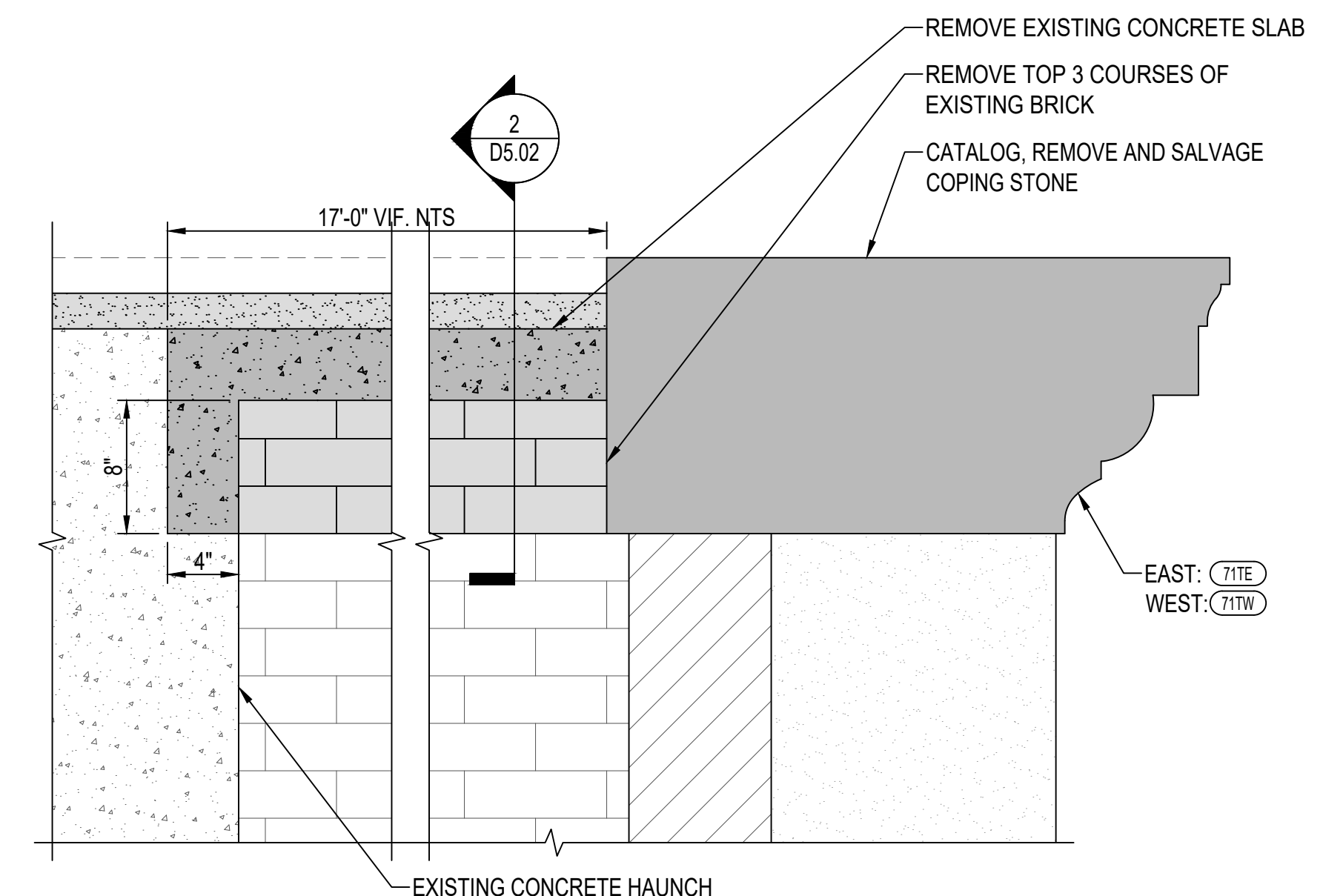
4 PEDESTAL DEMOLITION DETAIL
D5.02 SCALE: 1½"=1'-0"



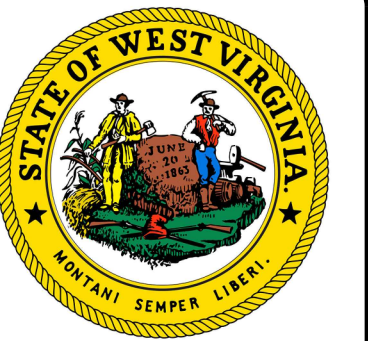
5 SIDE STAIR DEMOLITION DETAIL
D5.02 SCALE: ¾"=1'-0"



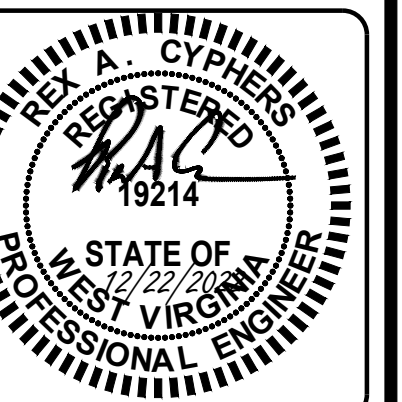
6 PLATFORM DEMOLITION DETAIL
D5.02 SCALE: 1½"=1'-0"



7 COPING SLAP DEMOLITION DETAIL
D5.02 SCALE: 1½"=1'-0"



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SHEET NAME

DEMOLITION
DETAILS

SHEET NUMBER

D5.02



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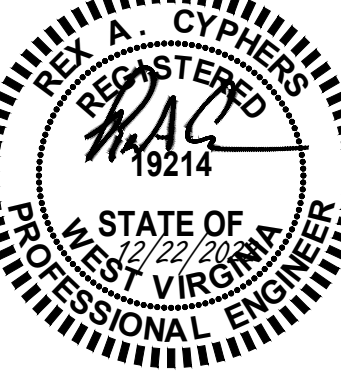
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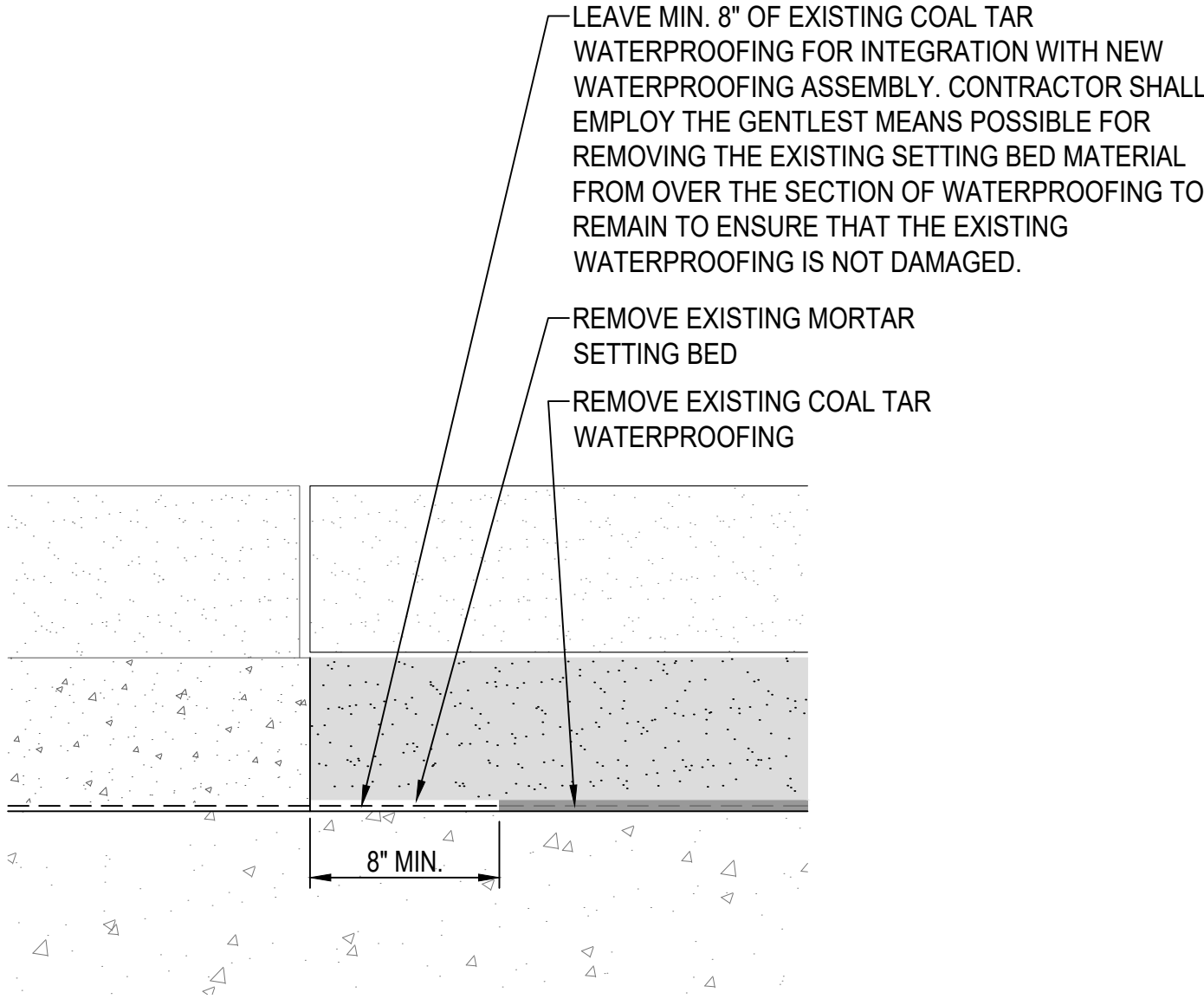


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SHEET NAME
DEMOLITION
DETAILS

SHEET NUMBER
D5.03



1
D5.03
DETAIL
SCALE: 3"=1'-0"

KEY LEGEND	
	ROOF DRAIN
	RAINWATER LEADER
	PIPE UP
	PIPE DOWN



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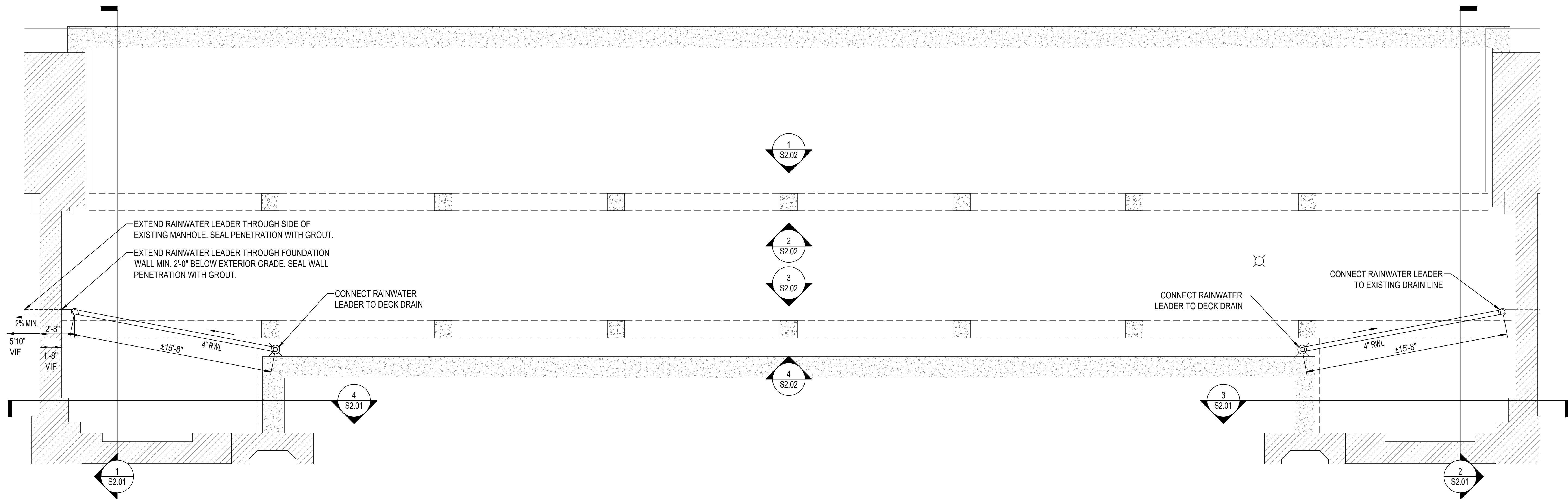
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME

PLATFORM
REPAIR PLAN

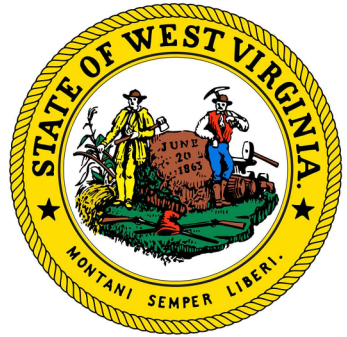
SHEET NUMBER

S1.01



KEY LEGEND

NEW CONCRETE



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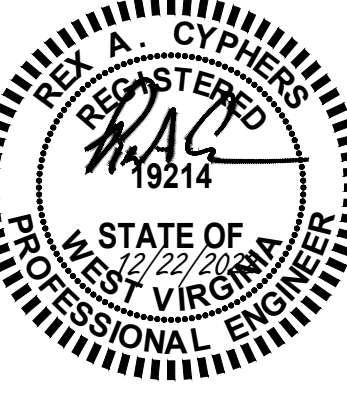
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DESIGN PBD

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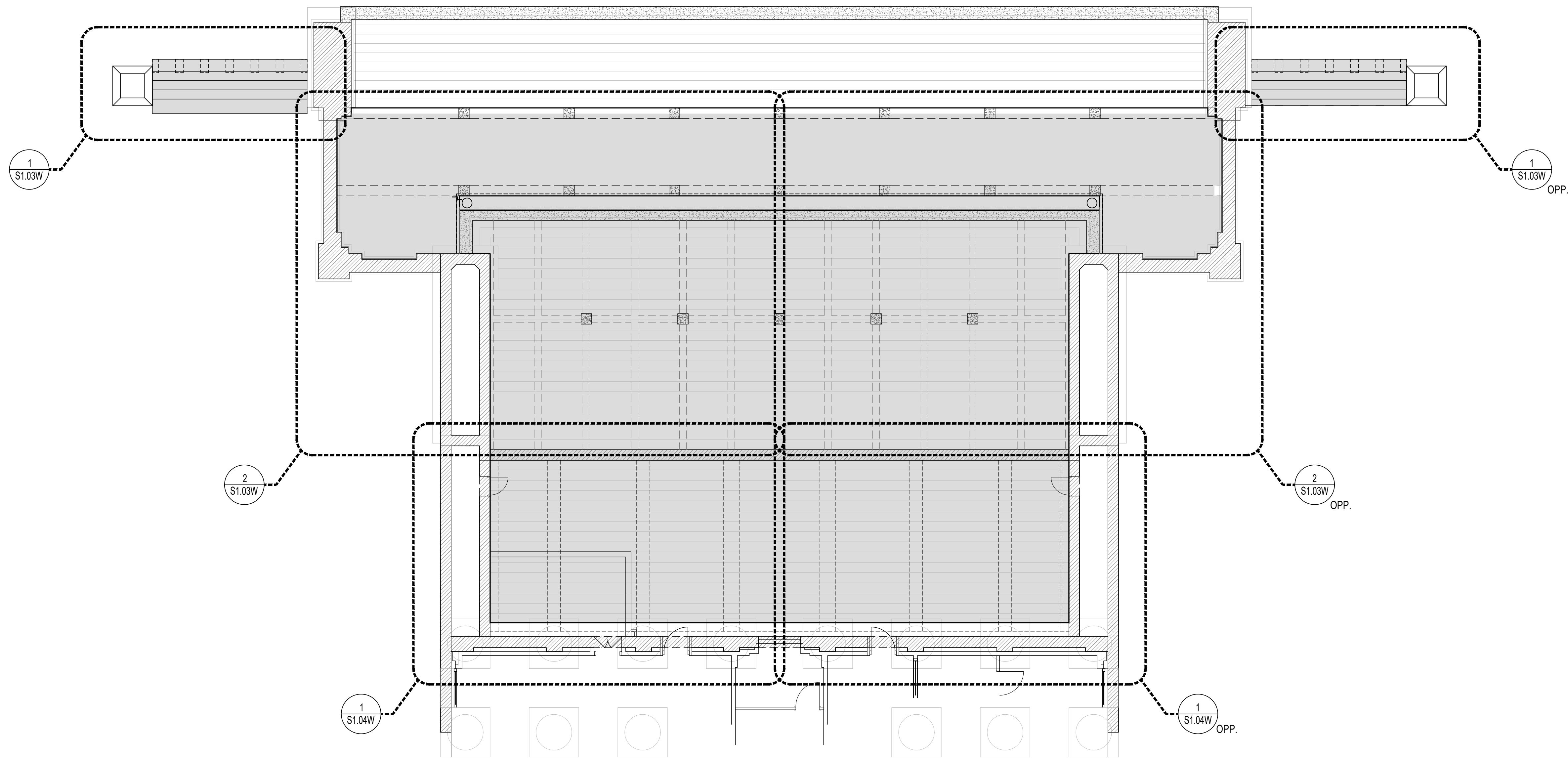
SHEET NAME

NORTH
STAIRS
FRAMING

PLAN

SHEET NUMBER

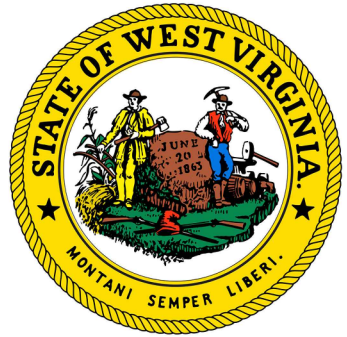
S1.02



1
S1.02

NORTH STAIR FRAMING PLAN

SCALE: 1/8"=1'-0"



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CHECK RAC

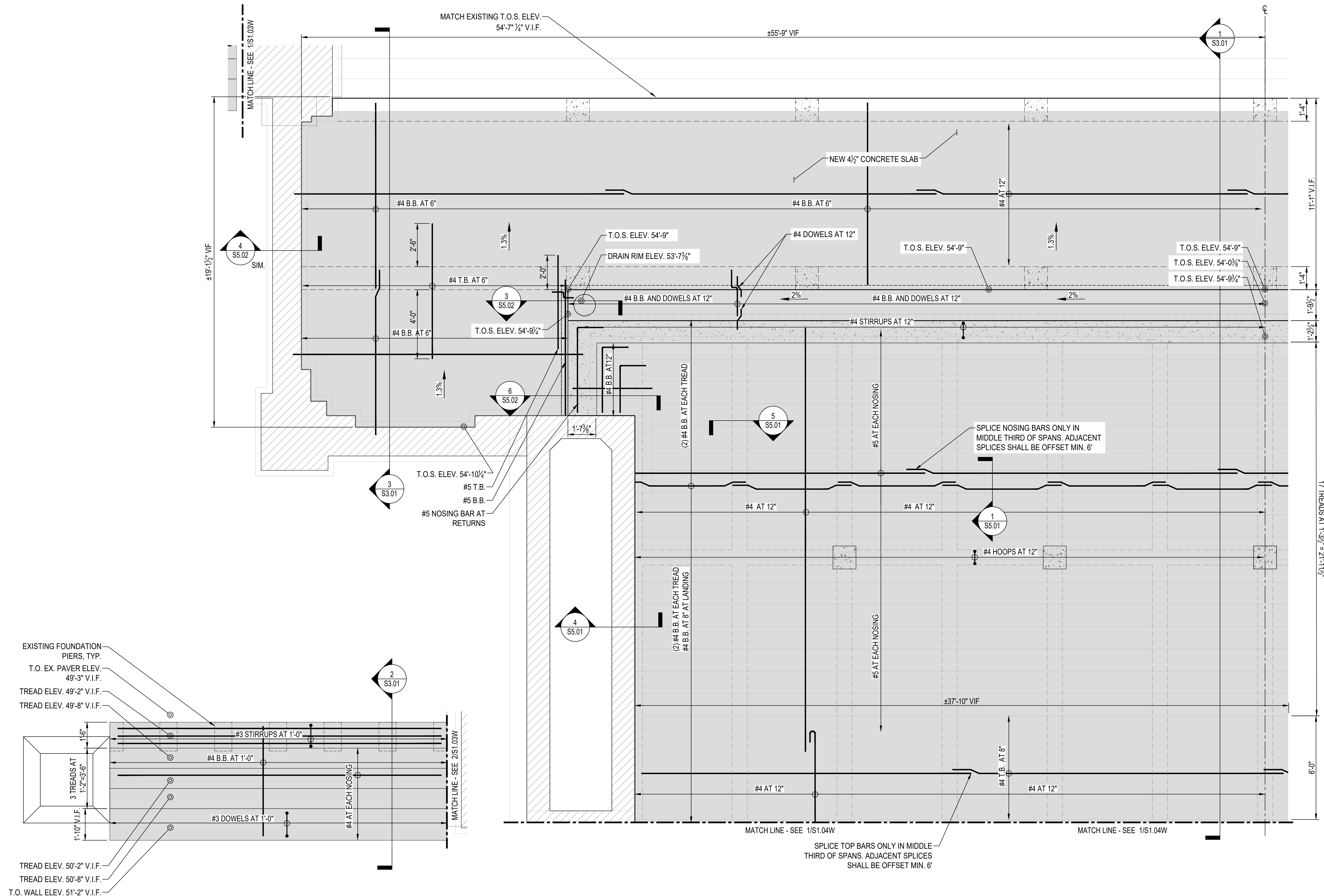
SHEET NAME

**NORTH
STAIRS
FRAMING**

PLAN

SHEET NUMBER

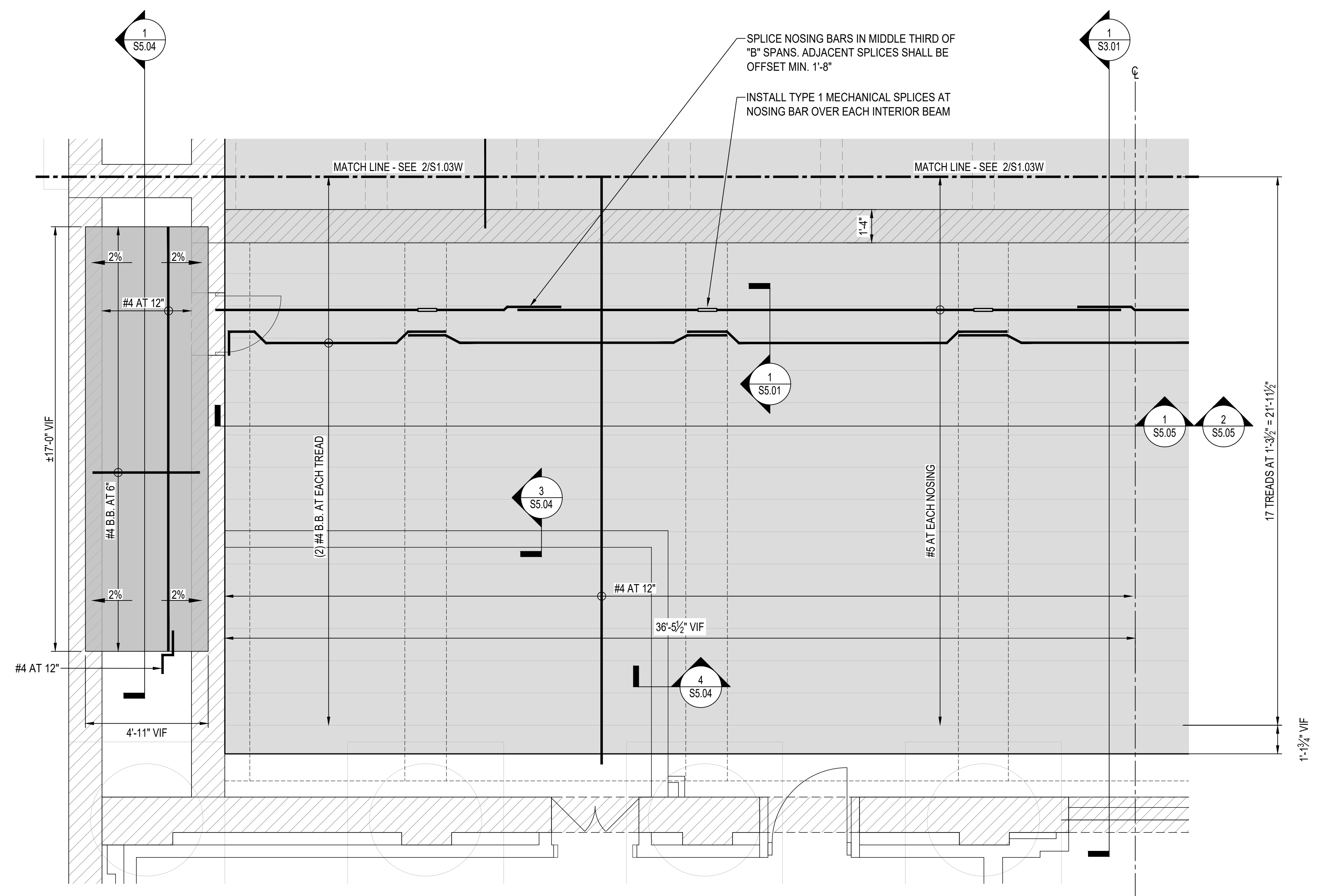
S1.03W



SHEET NOTE:
REINFORCEMENT LAYOUT IS SHOWN
DIAGRAMMATICALLY. CONTRACTOR
SHALL DEVELOP AND SUBMIT
REINFORCING SHOP DRAWINGS BASED
ON ACTUAL DIMENSIONS IN THE FIELD

1
WEST SIDE STAIR FRAMING PLAN
SCALE: 3/8"=1'-0"

2
**PLATFORM AND MIDDLE
FLIGHT WEST FRAMING PLAN**
SCALE: 3/8"=1'-0"

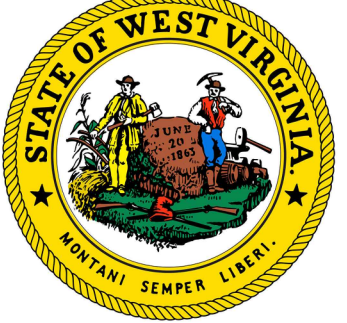


1
S1.04W

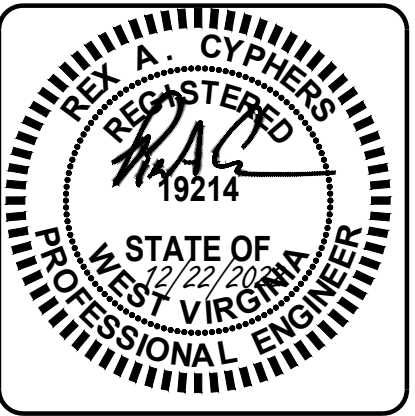
UPPER FLIGHT
WEST FRAMING PLAN

SCALE: 3/8"=1'-0"

SHEET NOTE:
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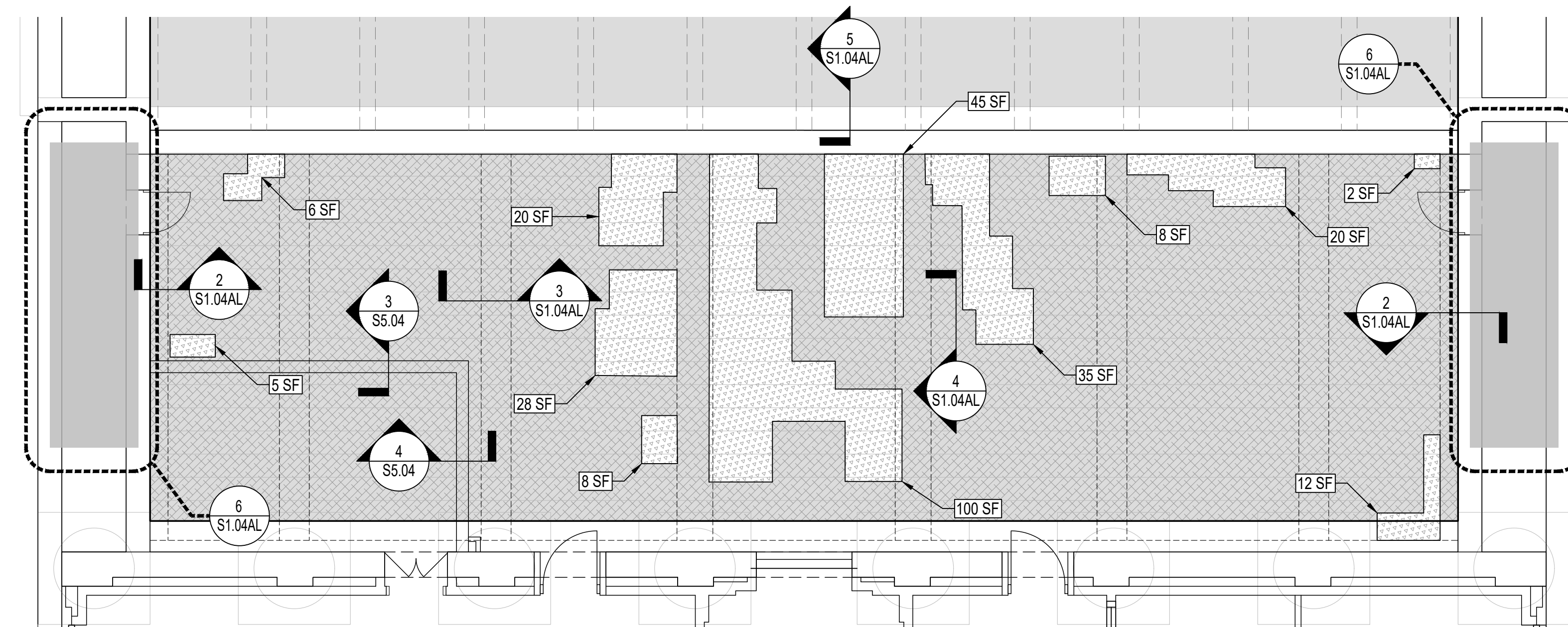
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME

NORTH STAIRS FRAMING PLAN

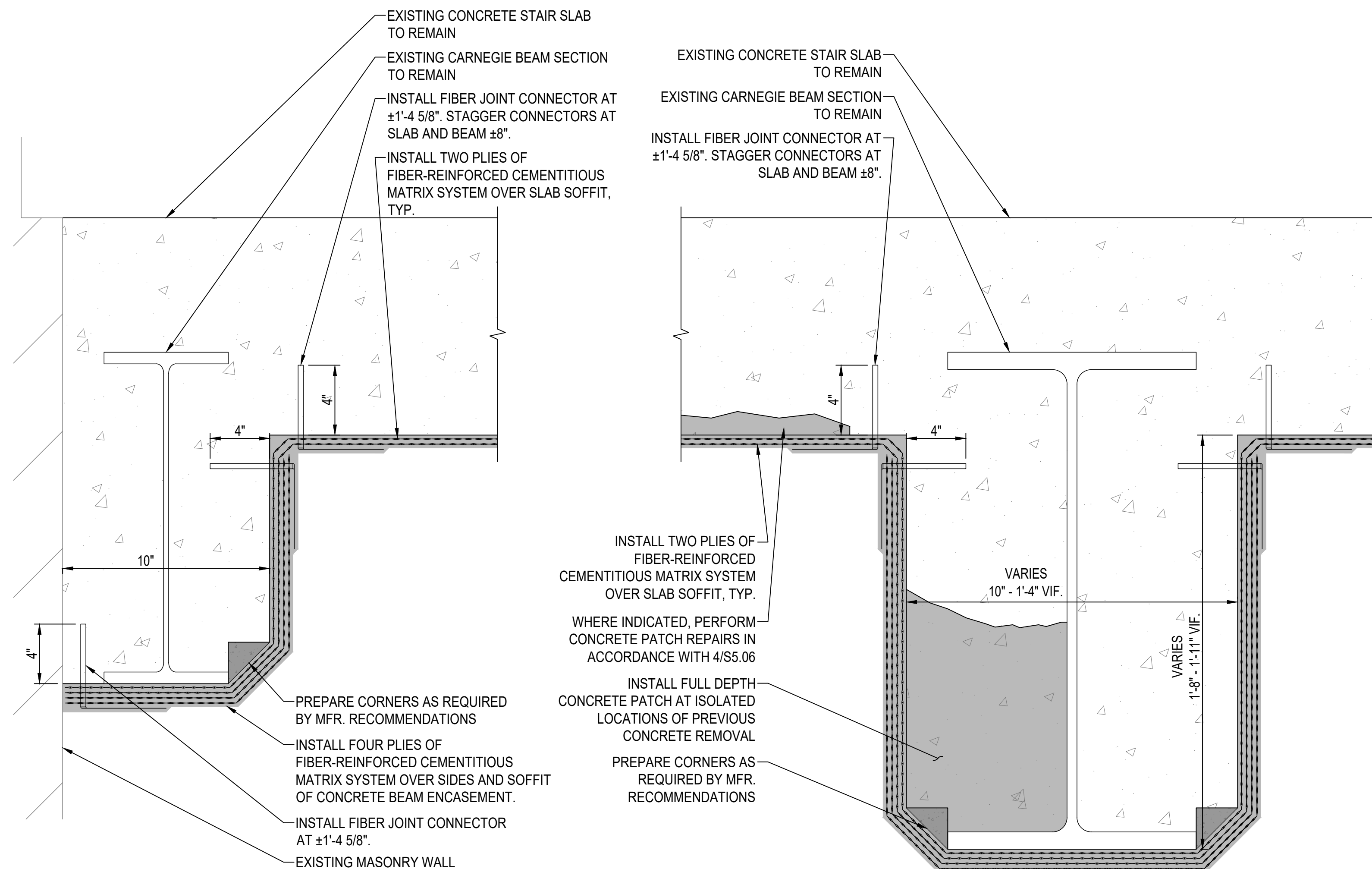
SHEET NUMBER

S1.04W



1 UPPER FLIGHT SLAB REPAIR
SCALE: 3/16"=1'-0"

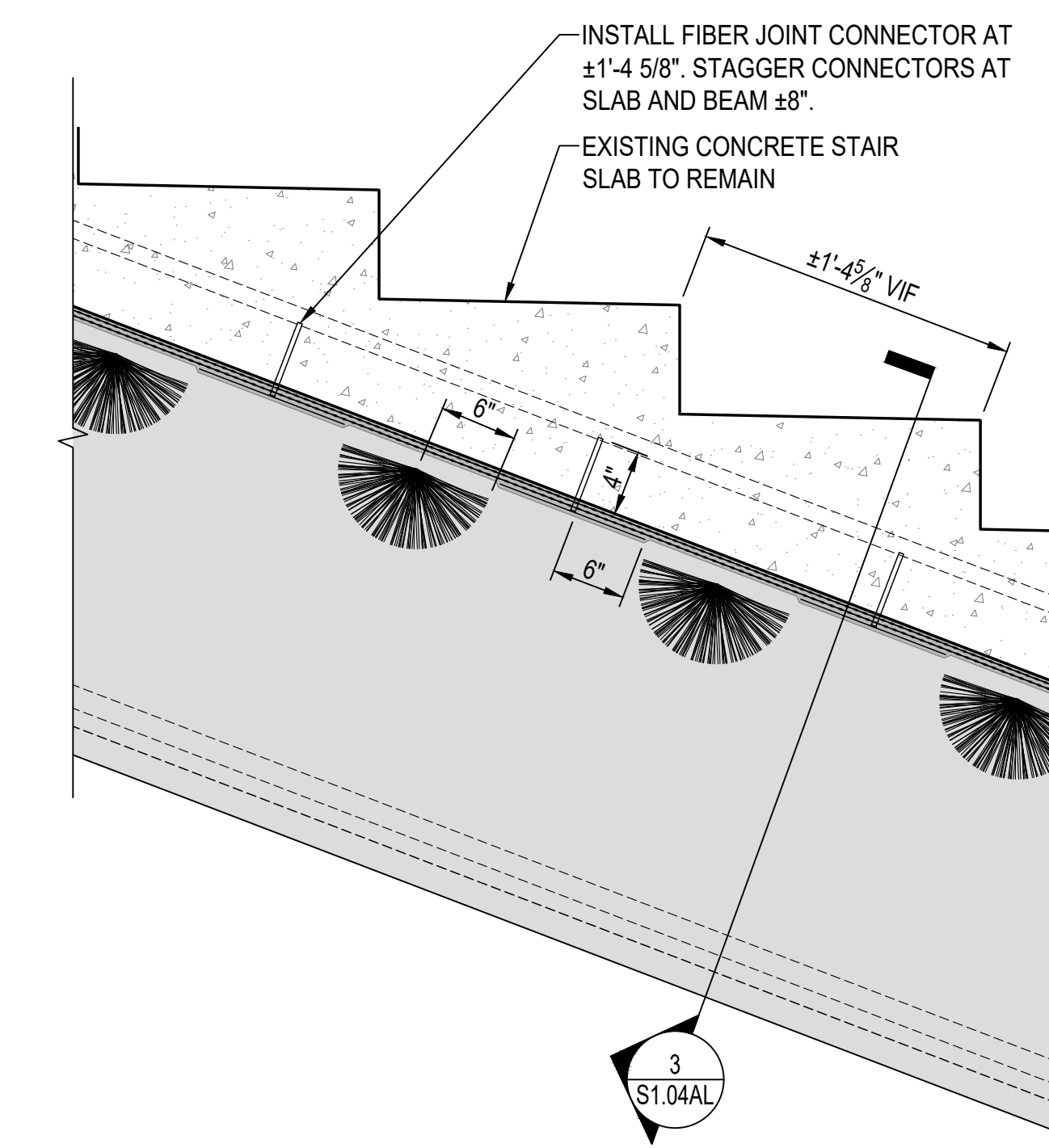
- LEGEND:
- CONCRETE PATCH REPAIRS, SEE 4/S5.06
 - CONCRETE REPLACEMENT
 - FRCM REPAIR



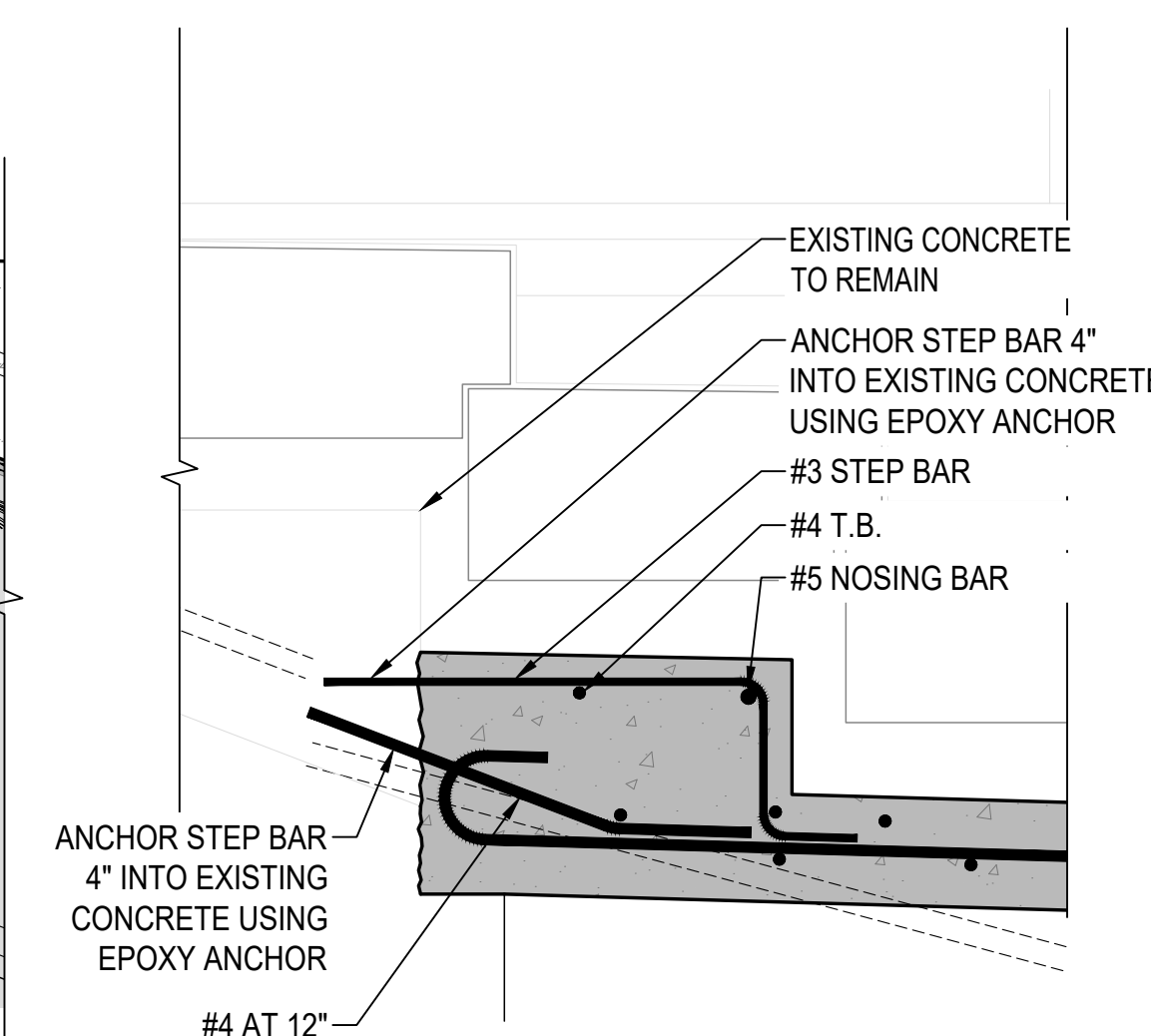
2 FRCM REPAIRS AT END BEAMS
SCALE: 3"=1'-0"

3 TYPICAL FRCM REPAIR DETAIL
SCALE: 3"=1'-0"

6 COPING SLAB REINFORCEMENT PLAN
SCALE: 1/2"=1'-0"



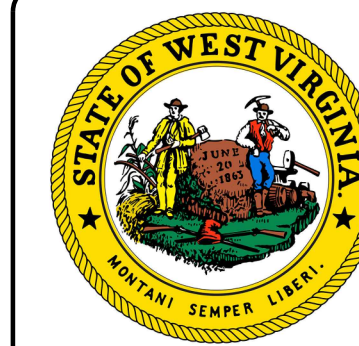
4 TYPICAL FRCM REPAIR SECTION
SCALE: 1/2"=1'-0"



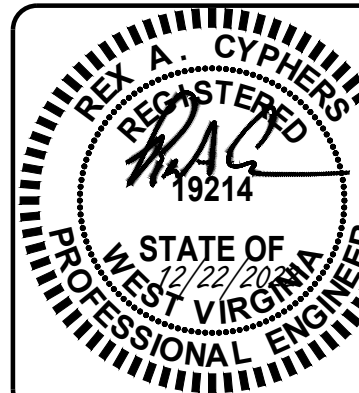
NOTE: MODIFY DETAIL 2/S5.01 AS SHOWN IN THIS DETAIL.

5 INTEGRATION DETAIL
BASE OF UPPER FLIGHT
SCALE: 1/2"=1'-0"

- SHEET NOTES:
- IF BID ALTERNATE A IS ACCEPTED, THEN THE FOLLOWING CHANGES ARE INCORPORATED INTO THE CONTRACT:
 - DEDUCT THE FOLLOWING STRUCTURAL SCOPE OF WORK:
 - SHEET S1.04E
 - SHEET S1.04W
 - DETAIL 3/S5.03
 - SHEET S5.05
 - ADD THE FOLLOWING SCOPE OF WORK:
 - SHEET S1.04AL
 - IN DETAILS 3/S5.04 AND 4/S5.04, ADD THE FOLLOWING NOTE: "RE-LAY SALVAGED BRICK AT TOP OF BRICK PARTITION WALLS AFTER INSTALLATION OF FRCM AT SLAB SOFFIT."
 - NOTIFY ENGINEER IMMEDIATELY IF TOTAL SECTION LOSS IN EXISTING REINFORCEMENT EXCEEDS 50% IN ANY 12" SECTIONS.



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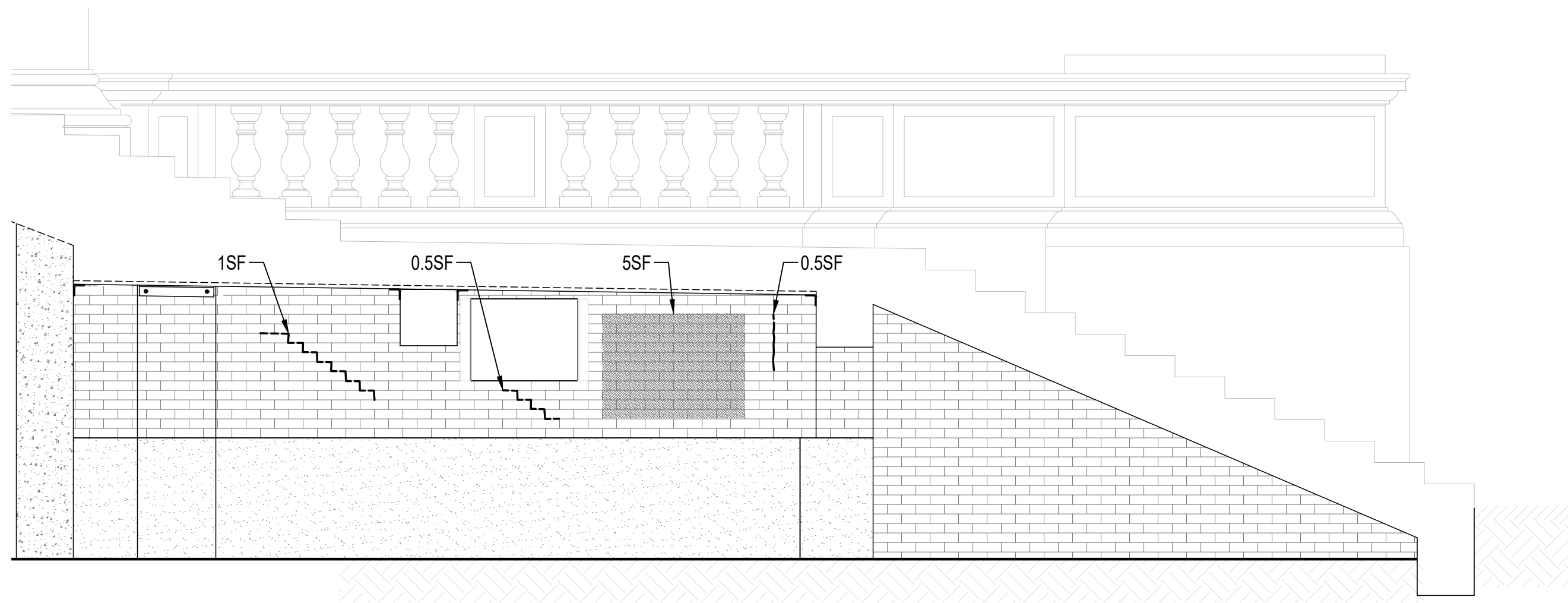
SHEET NAME

BID
ALTERNATE 1
FRAMING

PLAN

SHEET NUMBER

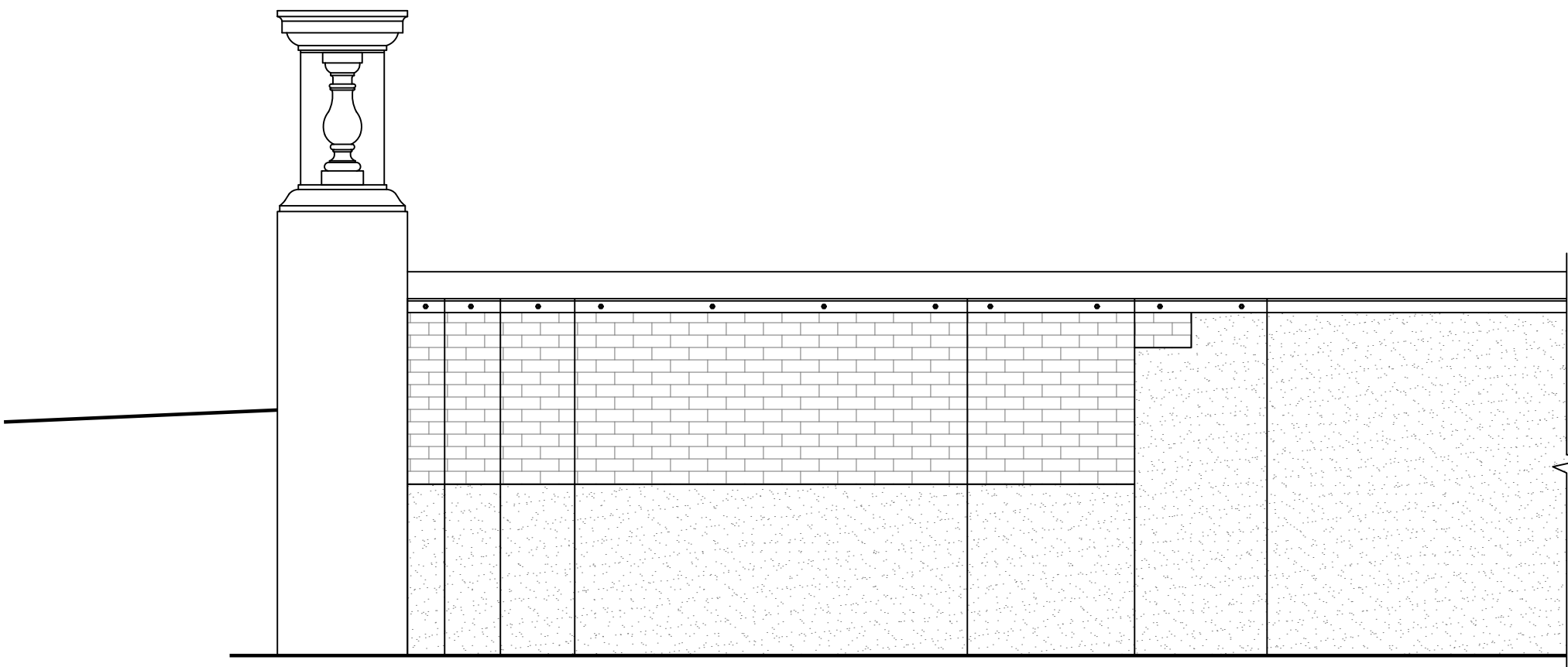
S1.04AL



1
S2.01

PLATFORM WEST INTERIOR ELEVATION

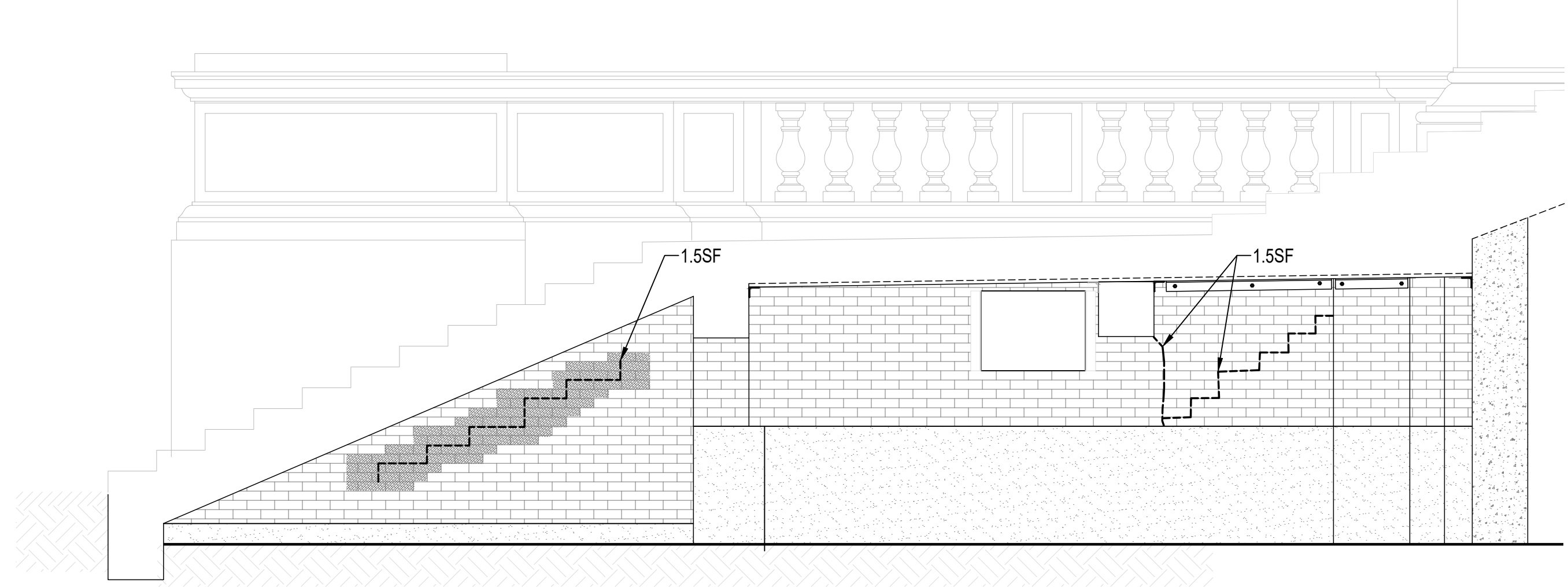
SCALE: 1/2"=1'-0"



3
S2.01

PLATFORM NORTH-EAST INTERIOR ELEVATION

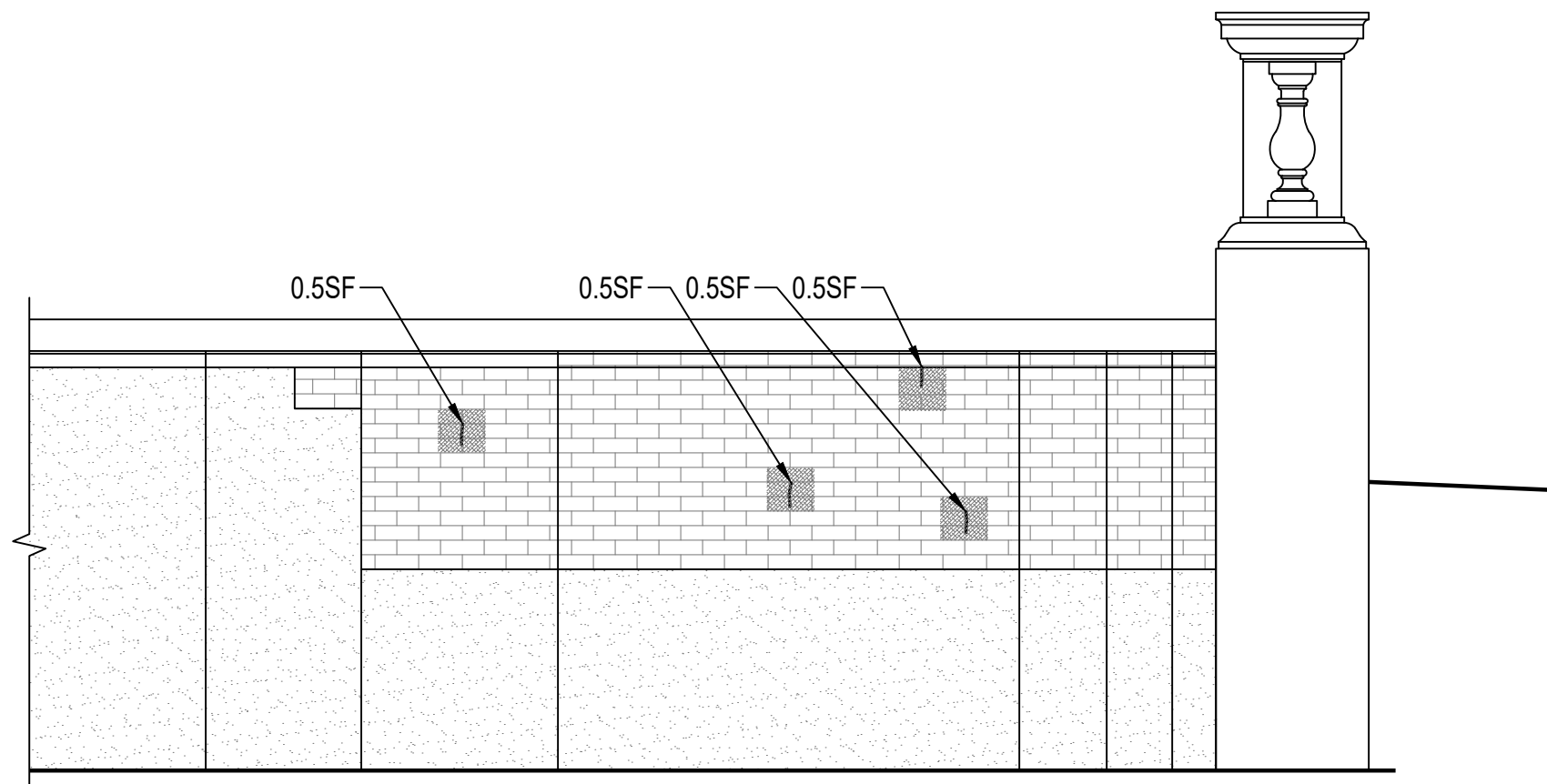
SCALE: 1/2"=1'-0"



2
S2.01

PLATFORM EAST INTERIOR ELEVATION

SCALE: 1/2"=1'-0"



4
S2.01

PLATFORM NORTH-WEST INTERIOR ELEVATION

SCALE: 1/2"=1'-0"

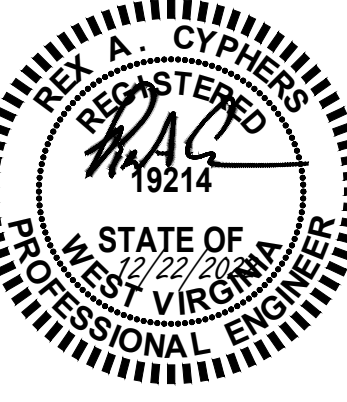
LEGEND:

BRICK REPOINTING, SEE 4/A5.04

BRICK REPOINTING, SEE 4/A5.04



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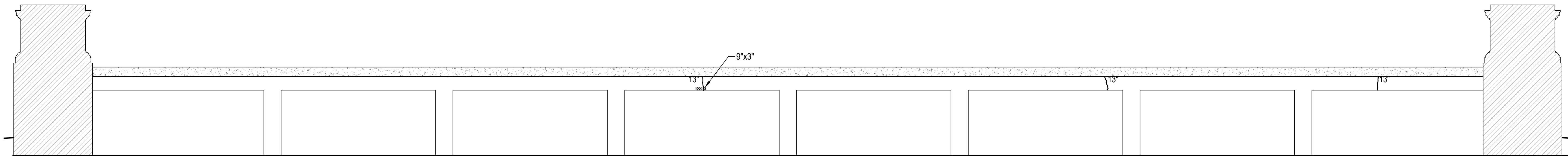
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME

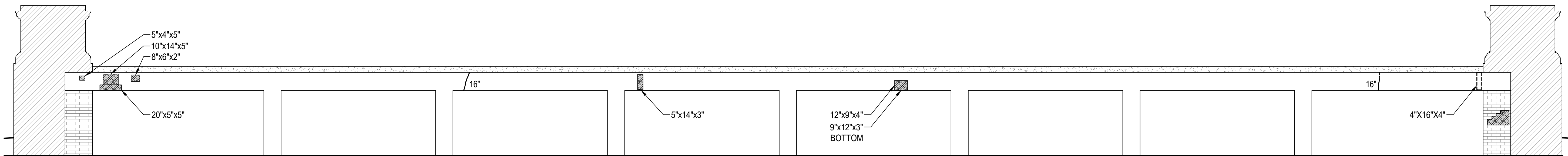
PATFORM
INTERIOR
ELEVATION

SHEET NUMBER

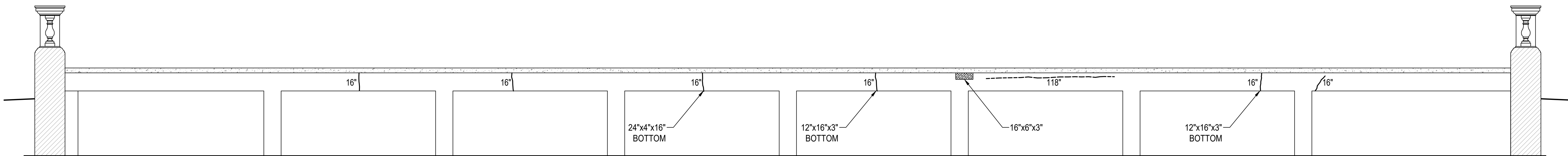
S2.01



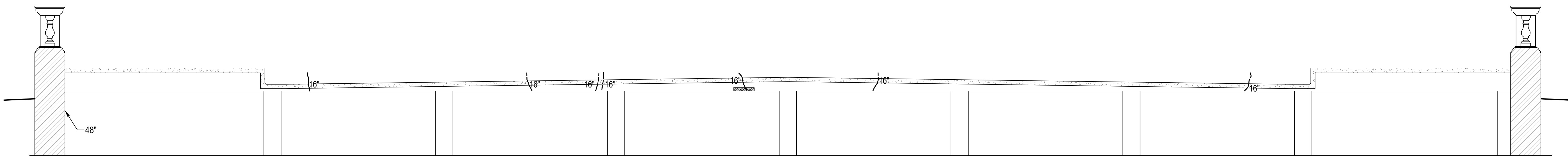
1 NORTH COLUMN LINE - NORTH ELEV.
S2.02 SCALE: 1/4"=1'-0"



2 NORTH COLUMN LINE - SOUTH ELEV.
S2.02 SCALE: 1/4"=1'-0"



3 SOUTH COLUMN LINE - NORTH ELEV.
S2.02 SCALE: 1/4"=1'-0"



4 SOUTH COLUMN LINE - SOUTH ELEV.
S2.02 SCALE: 1/4"=1'-0"

- LEGEND:
- BRICK POINT REPAIR
 - CONCRETE PATCH REPAIR, SEE 4/S5.06
 - CONCRETE CRACK REPAIR



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SHEET NAME
PLATFORM
FRAMING
REPAIRS

SHEET NUMBER
S2.02



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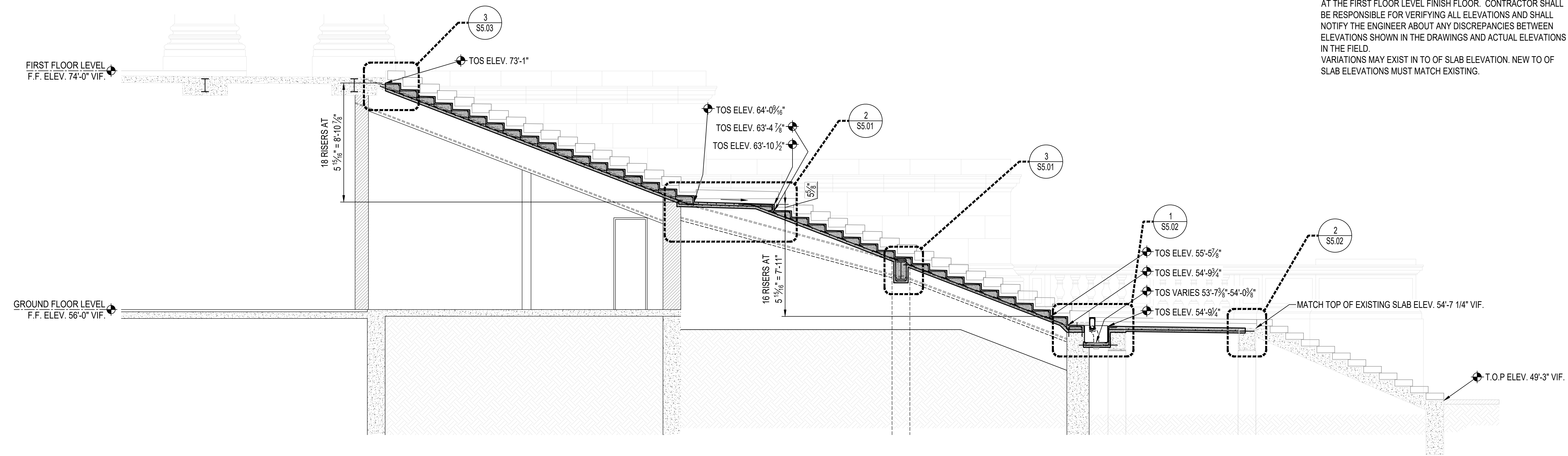
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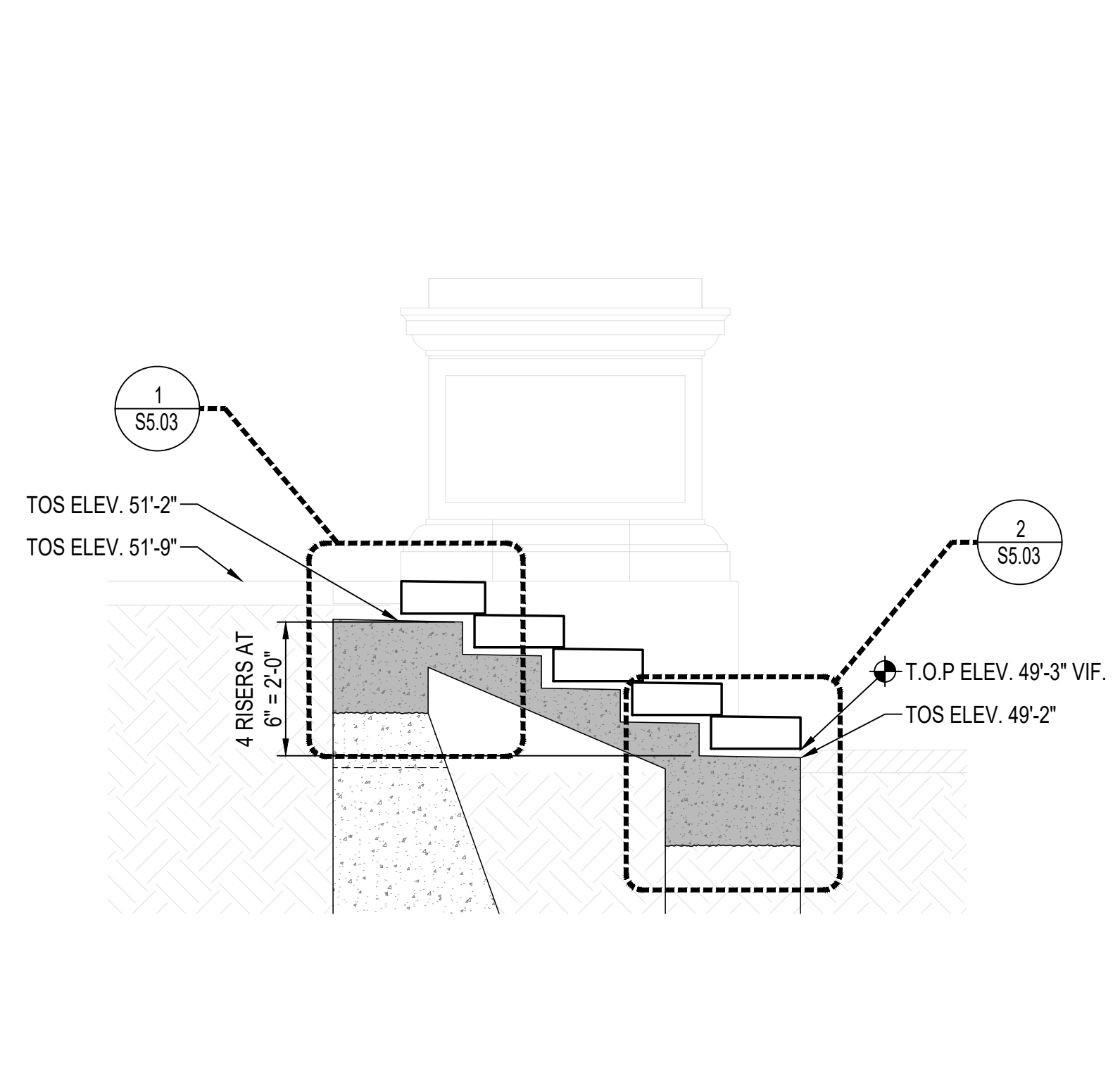
SHEET NAME
STRUCTURAL SECTIONS

SHEET NUMBER
S3.01

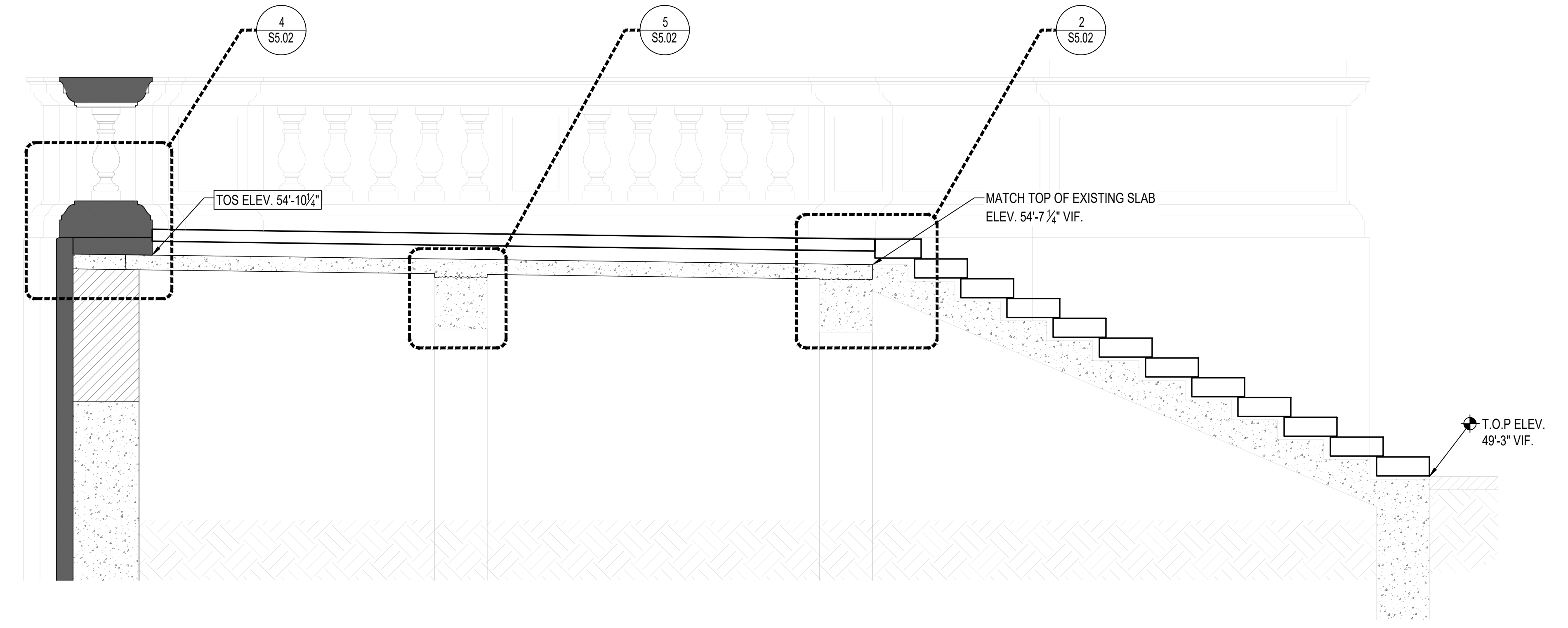
SHEET NOTE:
ELEVATIONS SHOWN ASSUME A BENCHMARK ELEVATION OF 74'-0"
AT THE FIRST FLOOR LEVEL FINISH FLOOR. CONTRACTOR SHALL
BE RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND SHALL
NOTIFY THE ENGINEER ABOUT ANY DISCREPANCIES BETWEEN
ELEVATIONS SHOWN IN THE DRAWINGS AND ACTUAL ELEVATIONS
IN THE FIELD.
VARIATIONS MAY EXIST IN TO OF SLAB ELEVATION. NEW TO OF
SLAB ELEVATIONS MUST MATCH EXISTING.



1
S3.01
STRUCTURAL SECTION
SCALE: 1/4"=1'-0"



2
S3.01
STRUCTURAL SECTION AT SIDE STAIR
SCALE: 1/2"=1'-0"



3
S3.01
STRUCTURAL SECTION AT PLATFORM WING
SCALE: 1/2"=1'-0"

SHEET NOTE:
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DRAFT DT

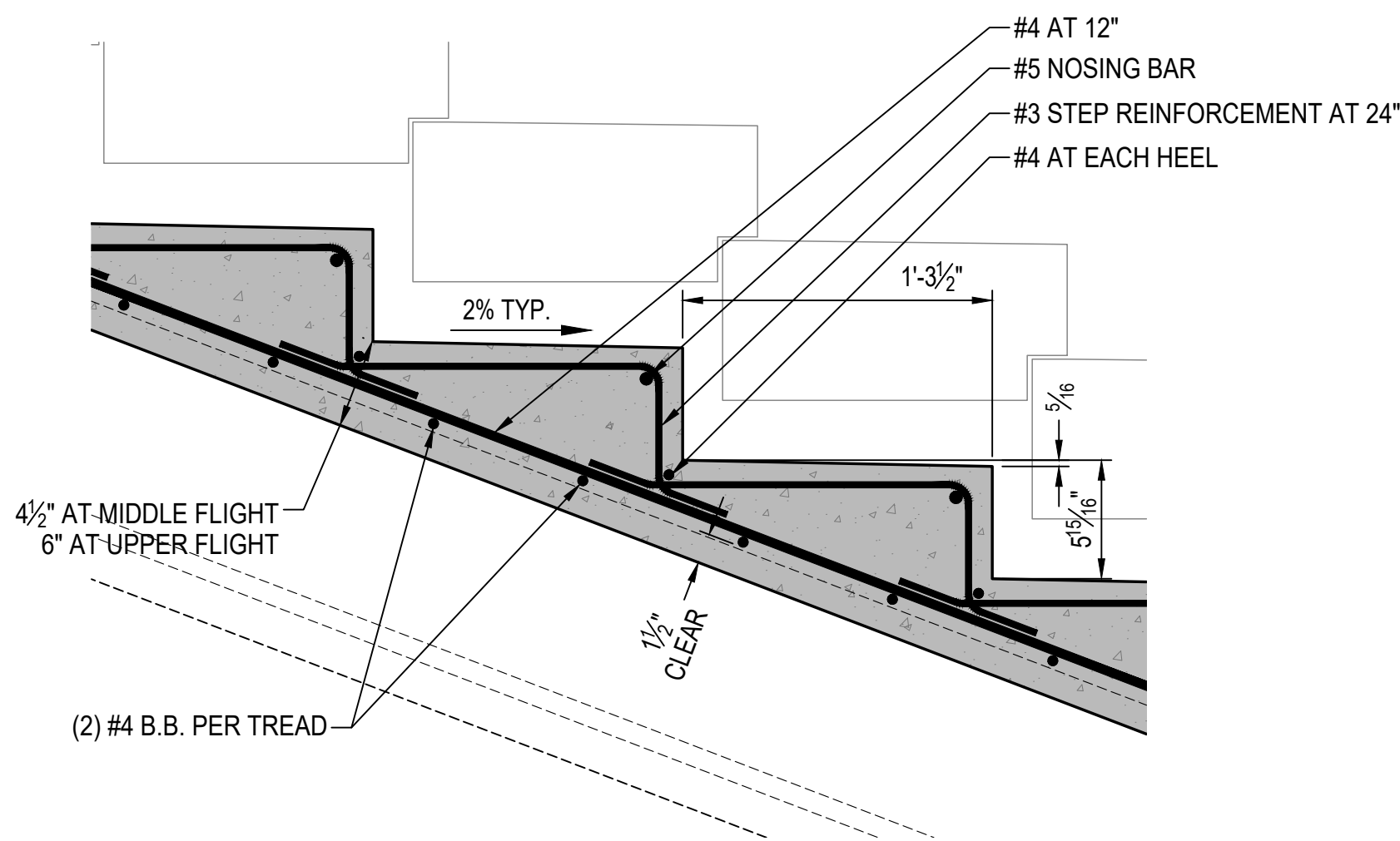
CHECK RAC

SHEET NAME

STRUCTURAL
REPAIR
DETAILS

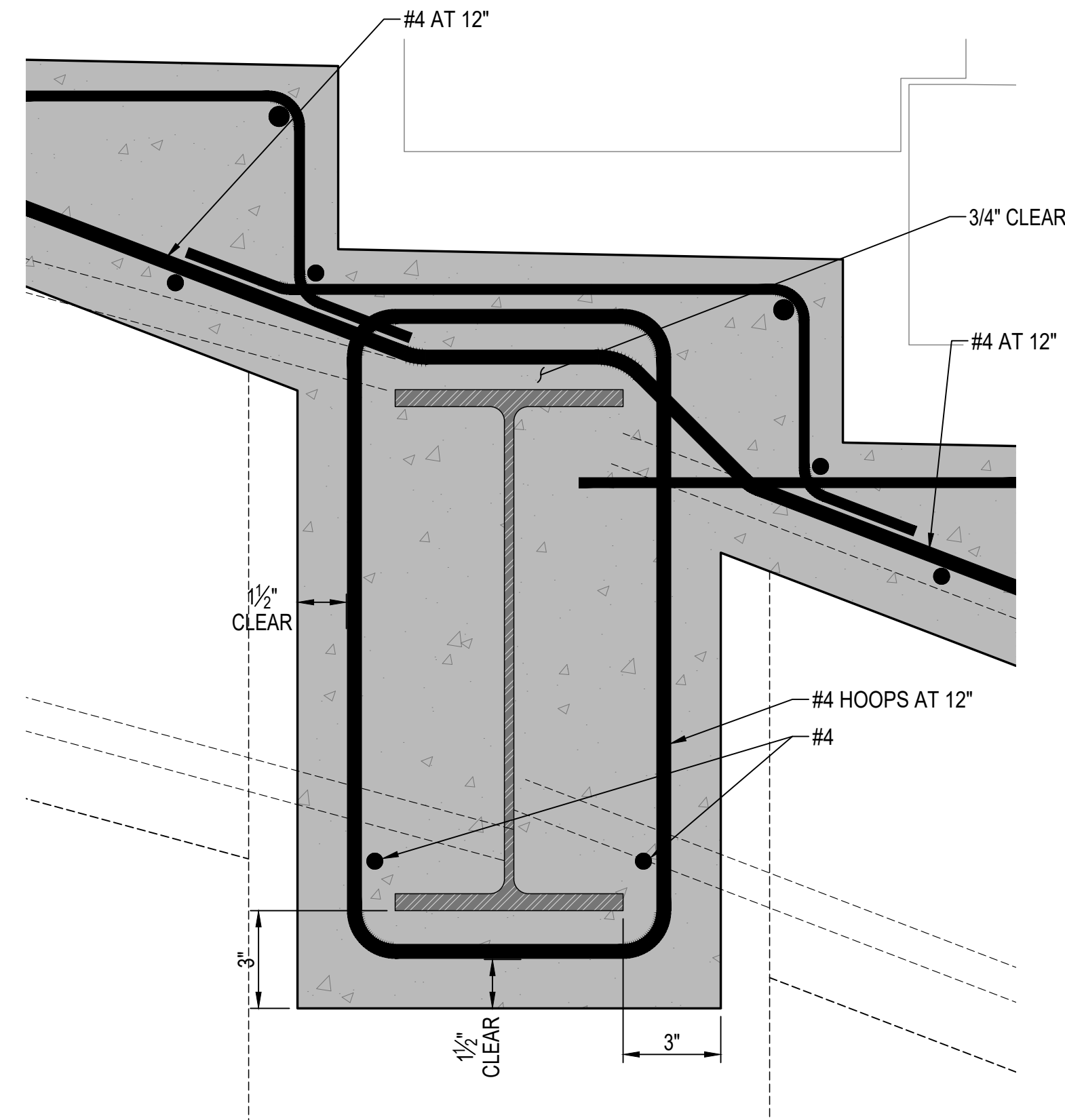
SHEET NUMBER

S5.01



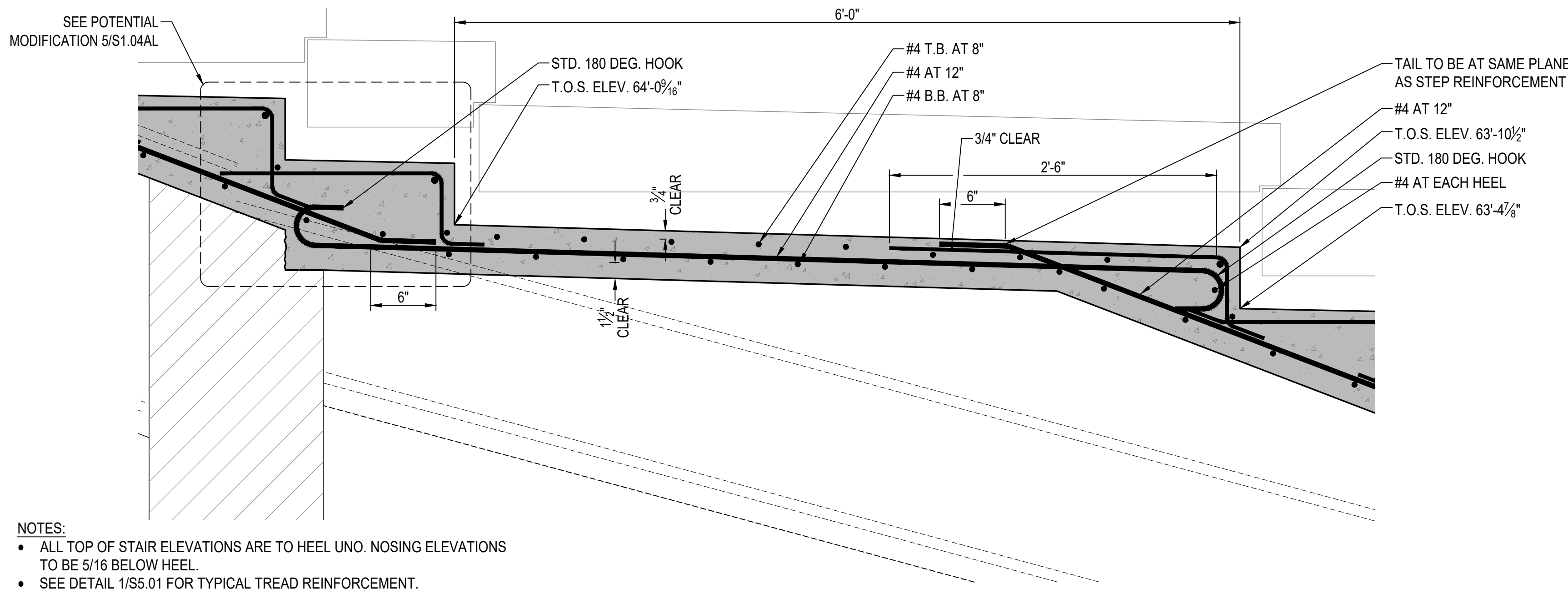
NOTE:
ALL TOP OF STAIR ELEVATIONS ARE TO HEEL UNO. NOSING ELEVATIONS TO
BE 5/16 BELOW HEEL.

1 TYPICAL STAIR REINFORCEMENT
S5.01 SCALE: 1 1/2"=1'-0"



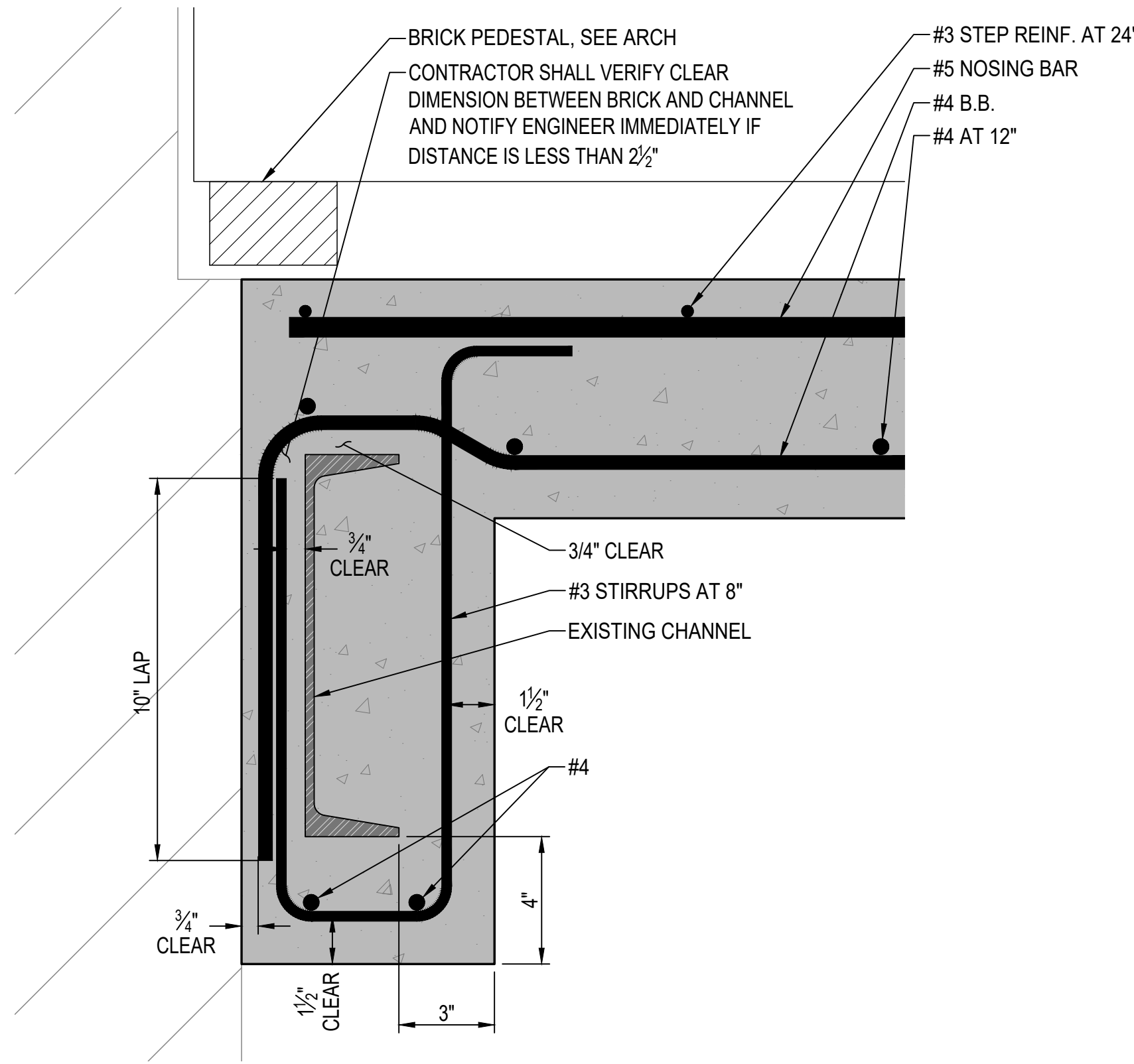
NOTE:
SEE DETAIL 1/S5.01 FOR TYPICAL TREAD REINFORCEMENT.

3 STRUCTURAL BEAM SECTION
S5.01 SCALE: 3"=1'-0"

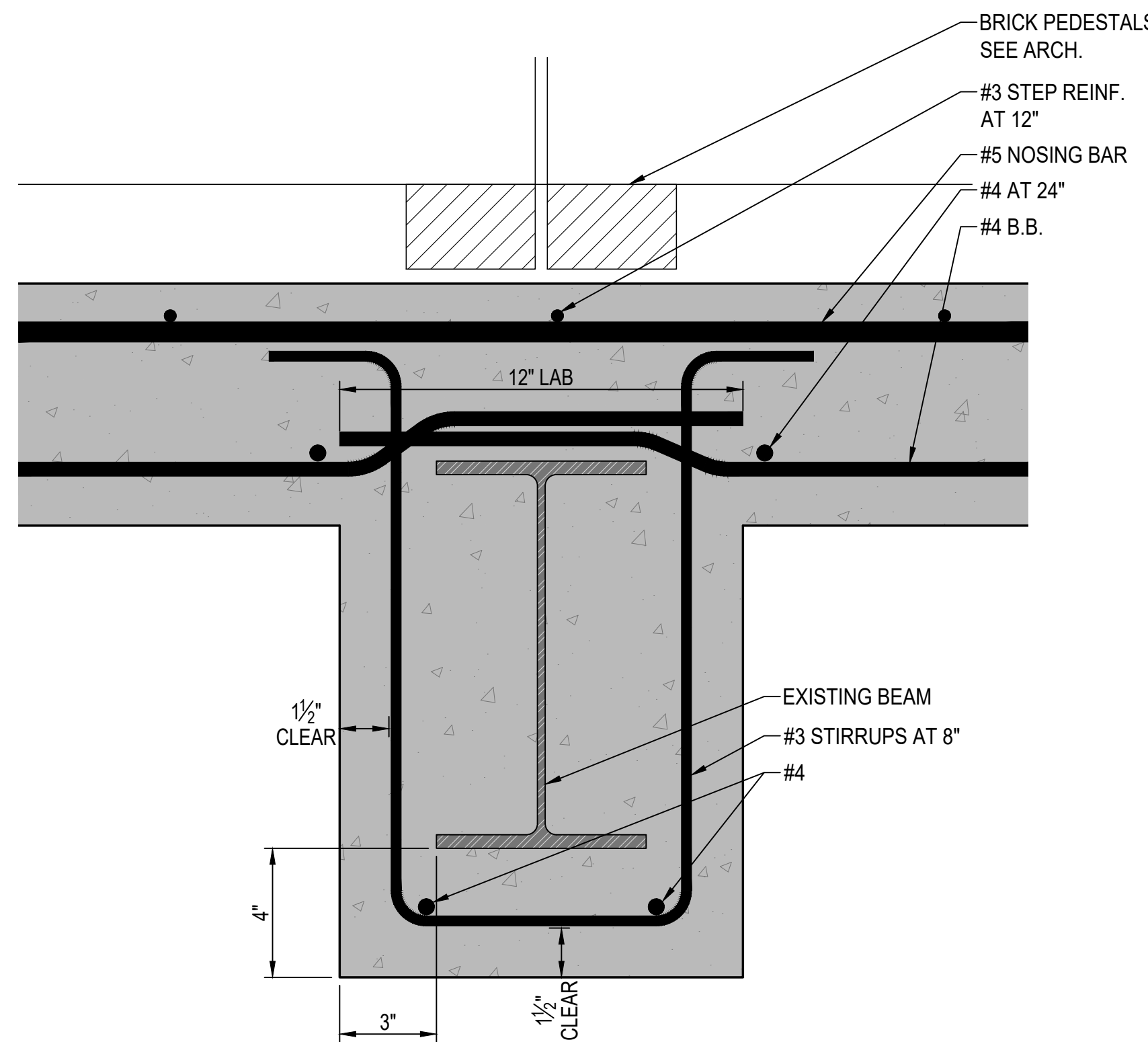


NOTES:
• ALL TOP OF STAIR ELEVATIONS ARE TO HEEL UNO. NOSING ELEVATIONS
TO BE 5/16 BELOW HEEL.
• SEE DETAIL 1/S5.01 FOR TYPICAL TREAD REINFORCEMENT.

2 MIDDLE LANDING REINFORCEMENT
S5.01 SCALE: 1 1/2"=1'-0"

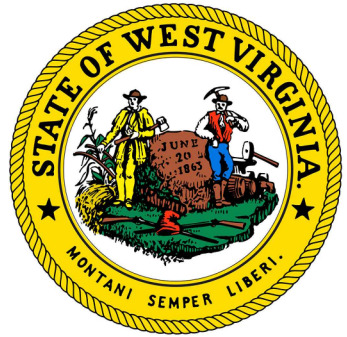


4 STRUCTURAL SLAB CONNECTION
S5.01 SCALE: 3"=1'-0"



5 STRUCTURAL BEAM DETAIL
S5.01 SCALE: 3"=1'-0"

SHEET NOTE:
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WDP JOB NUMBER 21060

DESIGN PBD

DRAFT DT

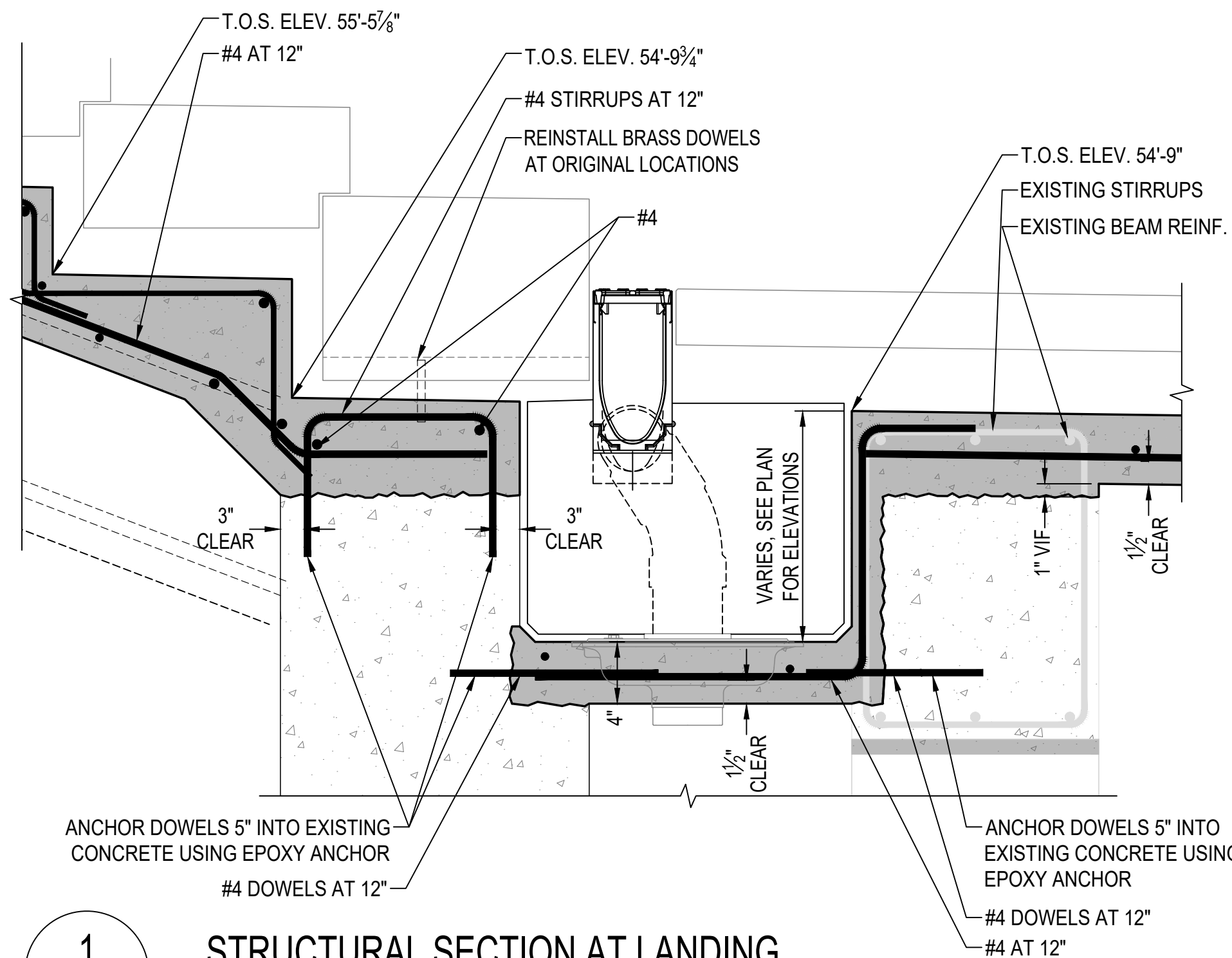
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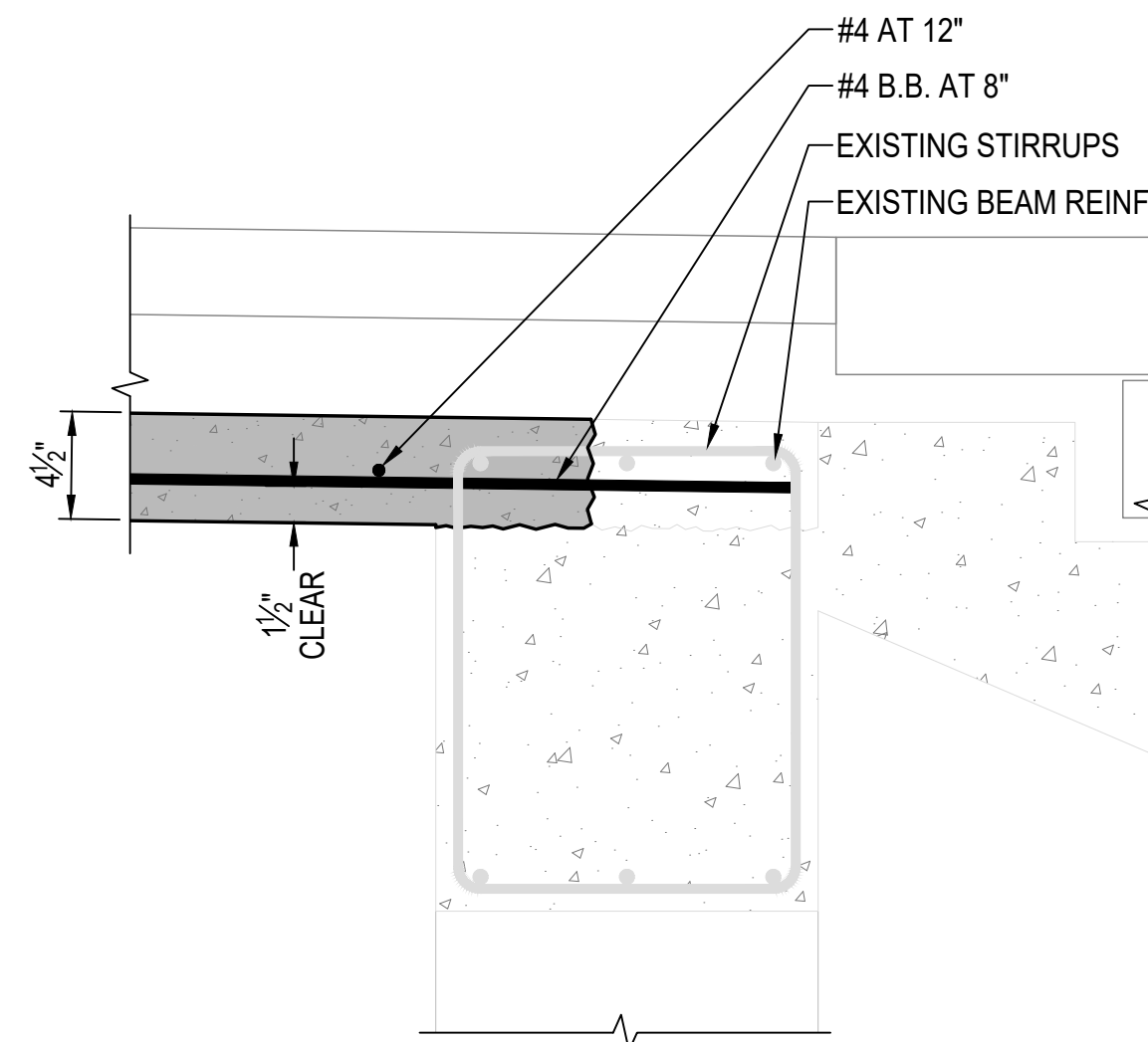
STRUCTURAL
REPAIR
DETAILS

SHEET NUMBER

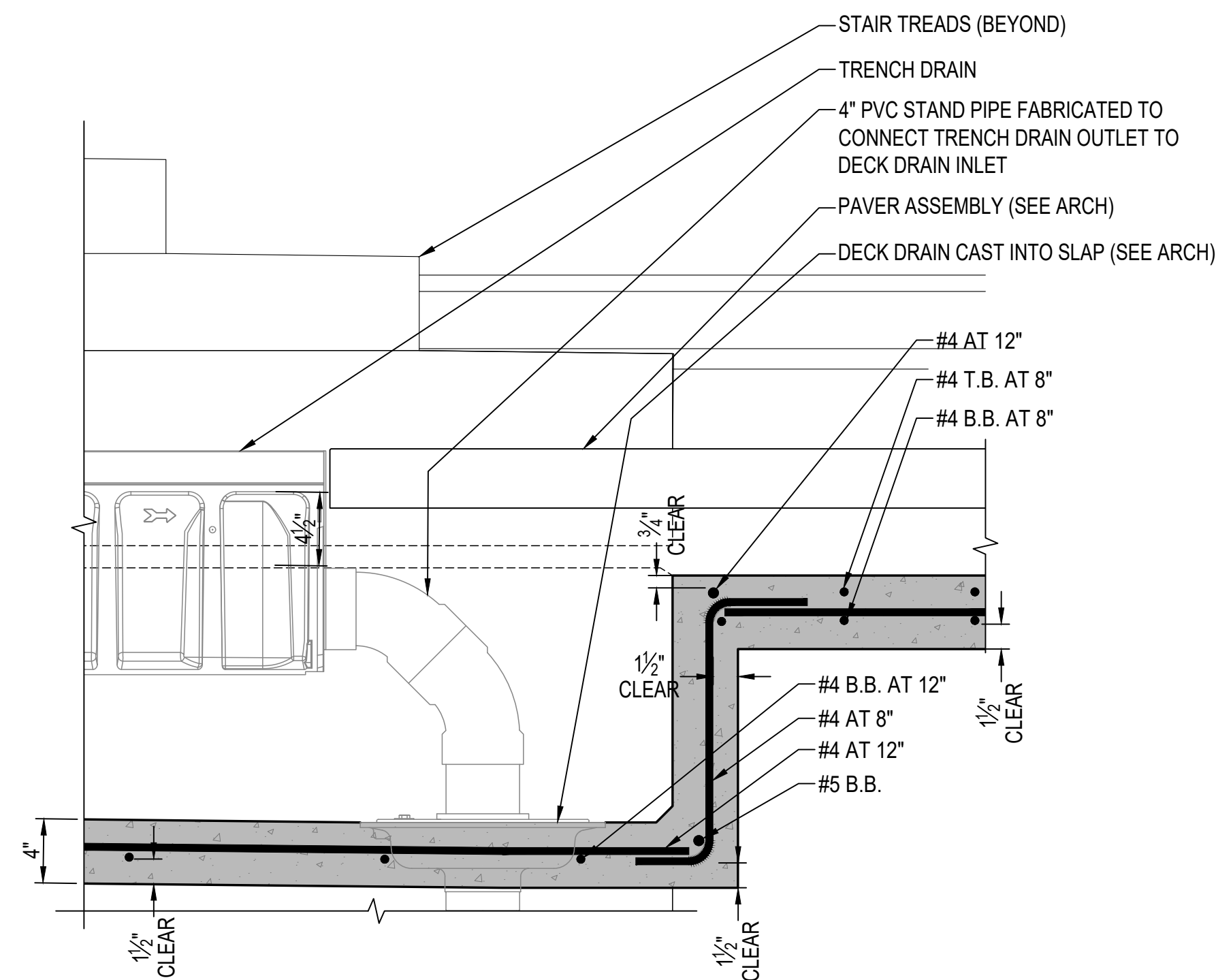
S5.02



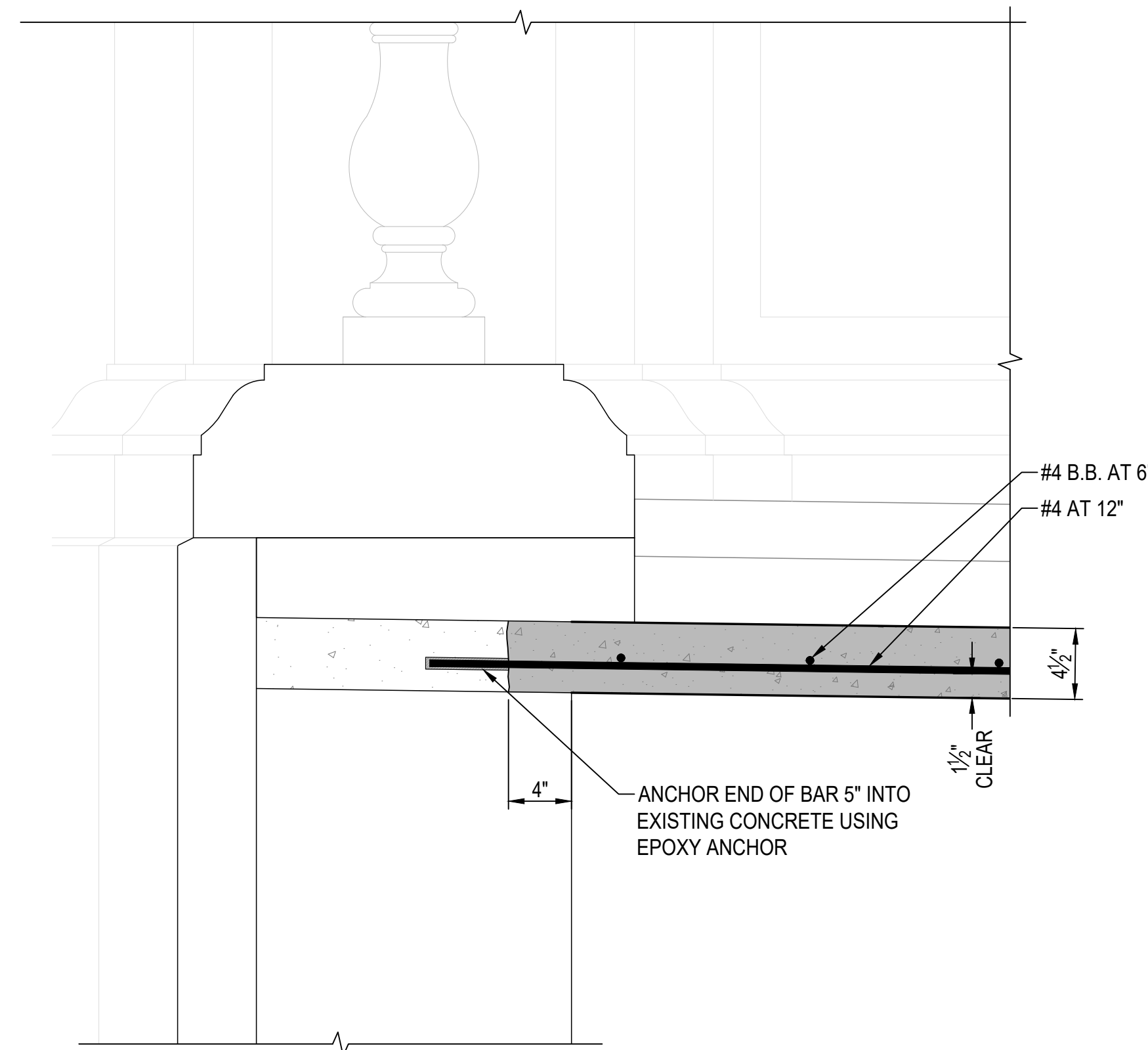
1
S5.02
STRUCTURAL SECTION AT LANDING
SCALE: 1 $\frac{1}{2}$ "=1'-0"



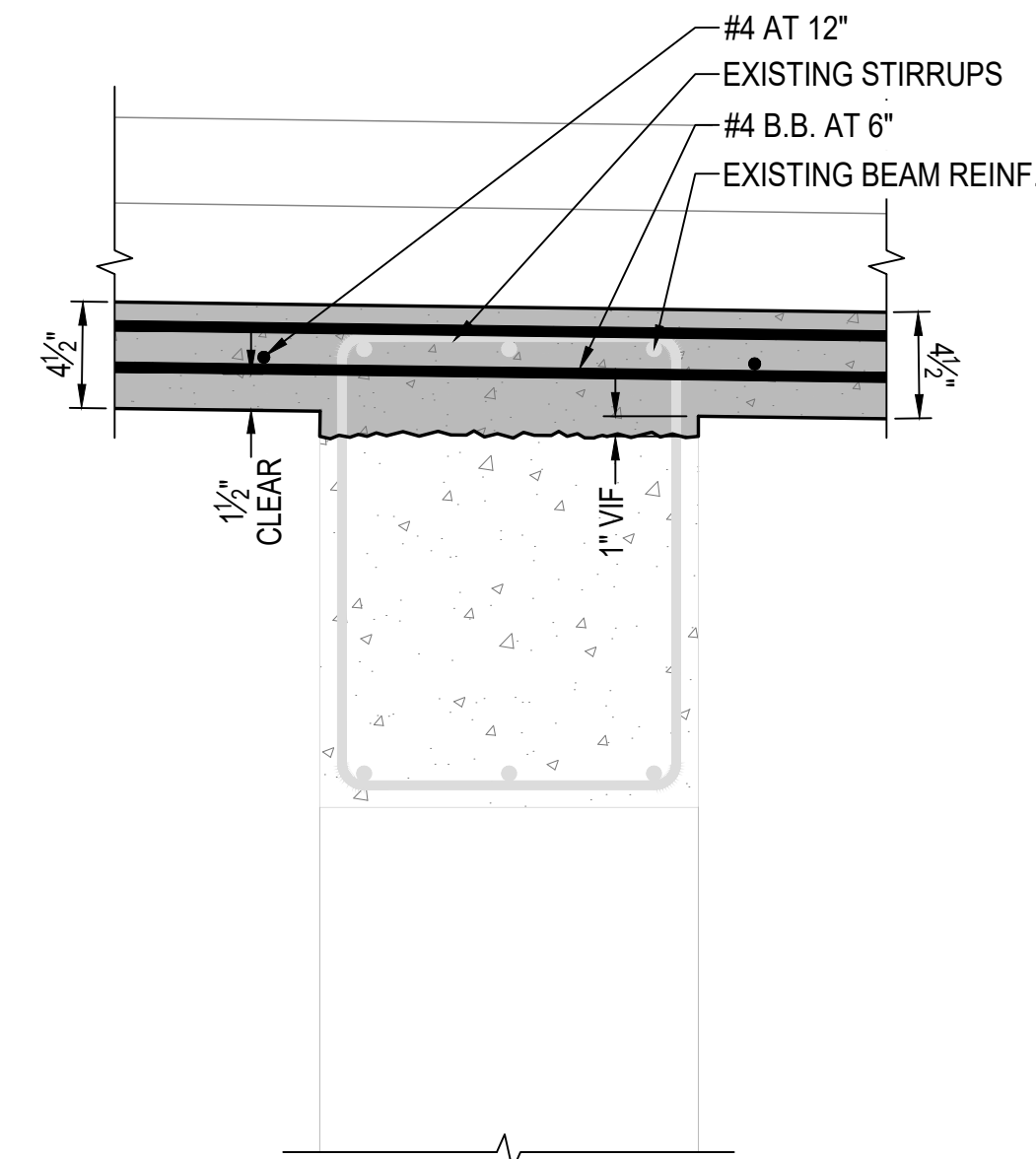
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S5.02
STRUCTURAL SLAB TERMINATION AT BEAM
SCALE: 1 $\frac{1}{2}$ "=1'-0"



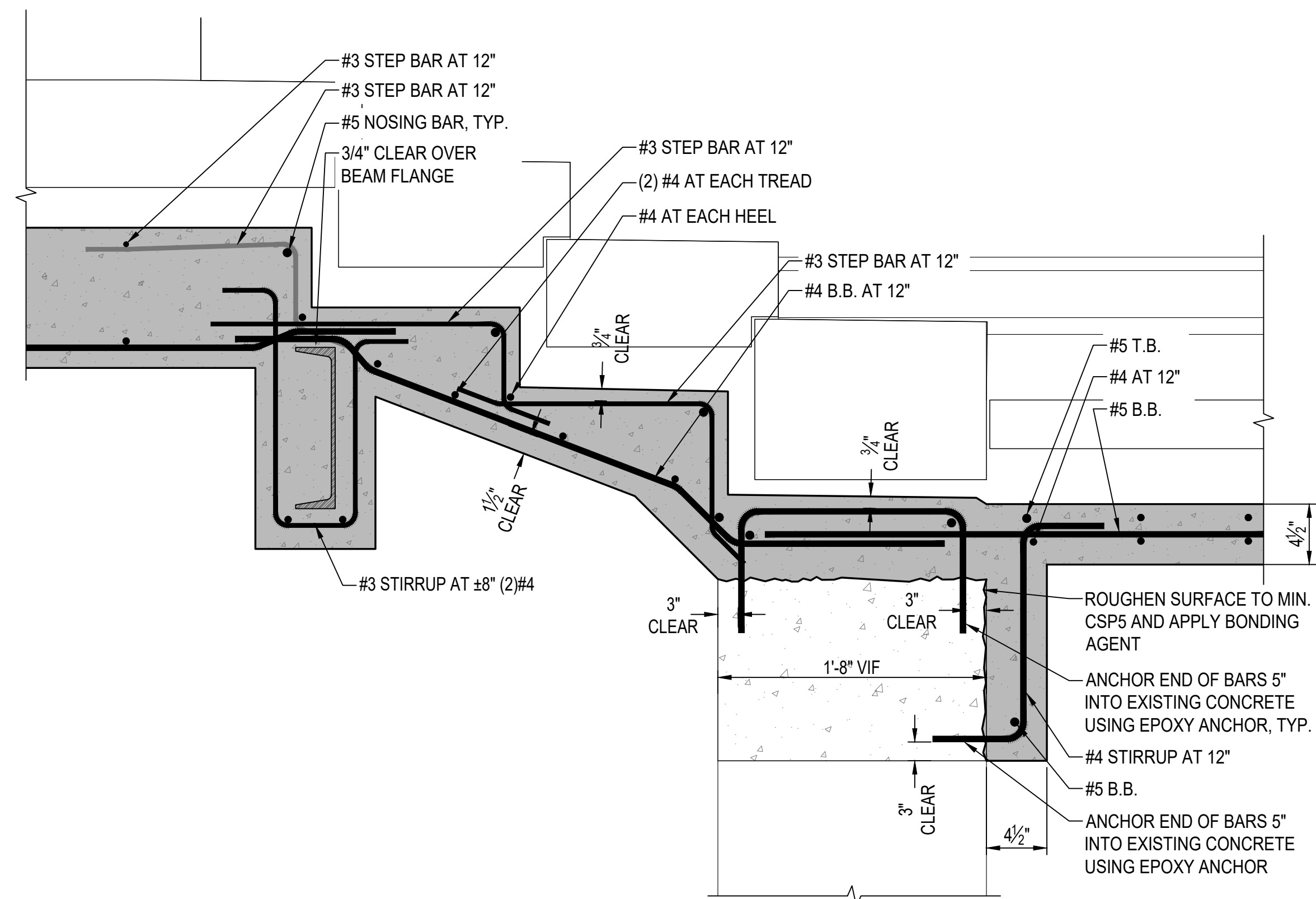
3
S5.02
STRUCTURAL DETAIL AT TRENCH DRAIN
SCALE: 1 $\frac{1}{2}$ "=1'-0"



4
S5.02
STRUCTURAL SLAB CONNECTION
SCALE: 1 $\frac{1}{2}$ "=1'-0"



5
S5.02
STRUCTURAL SLAB AT BEAM
SCALE: 1 $\frac{1}{2}$ "=1'-0"



6
S5.02
STAIR/PLATFORM INTEGRATION
SCALE: 1 $\frac{1}{2}$ "=1'-0"

SHEET NOTE:
REINFORCEMENT LAYOUT IS SHOWN
DIAGRAMMATICALLY. CONTRACTOR
SHALL DEVELOP AND SUBMIT
REINFORCING SHOP DRAWINGS BASE
ON ACTUAL DIMENSIONS IN THE FIELD



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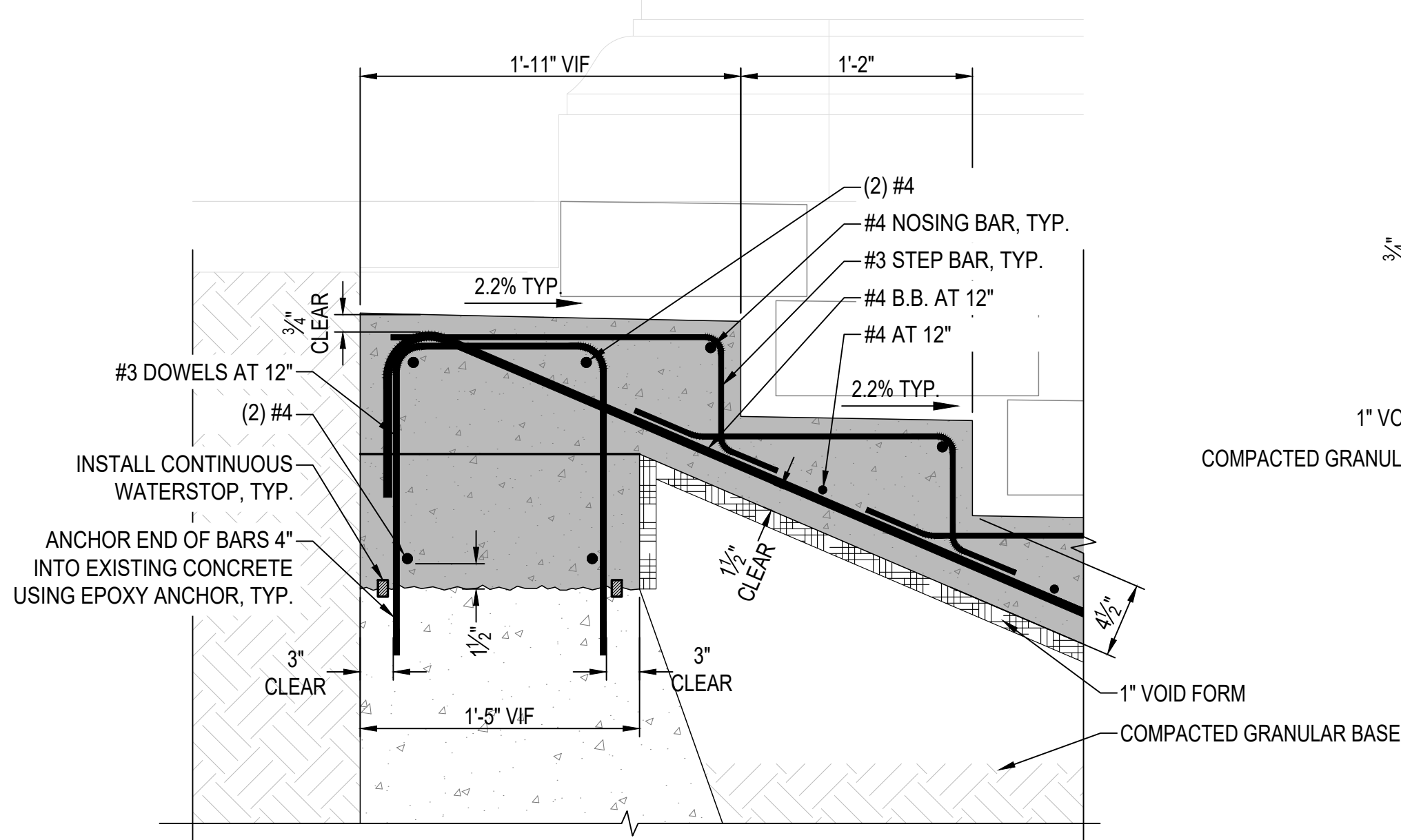
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CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS

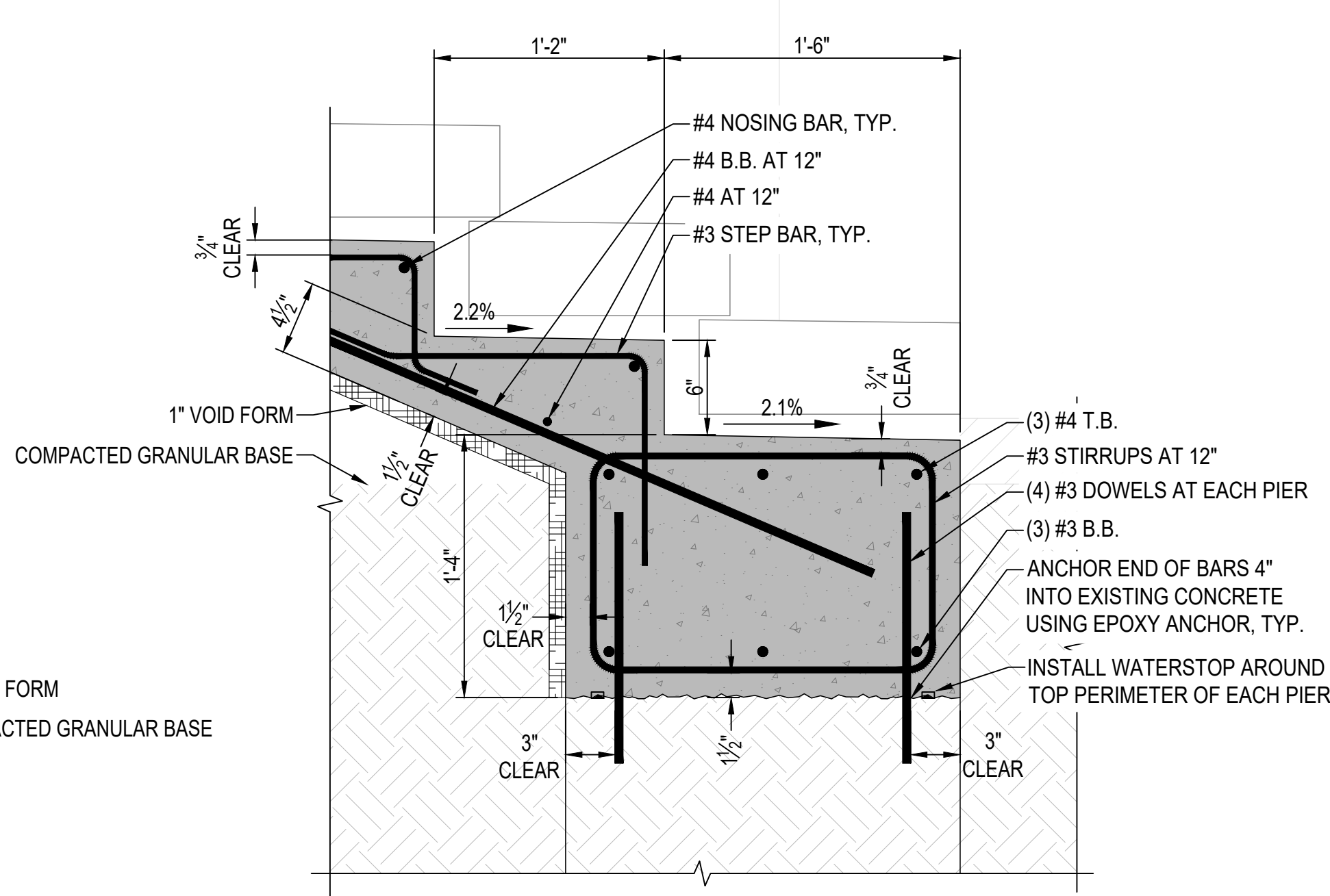
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SHEET NAME
**STRUCTURAL
REPAIR
DETAILS**

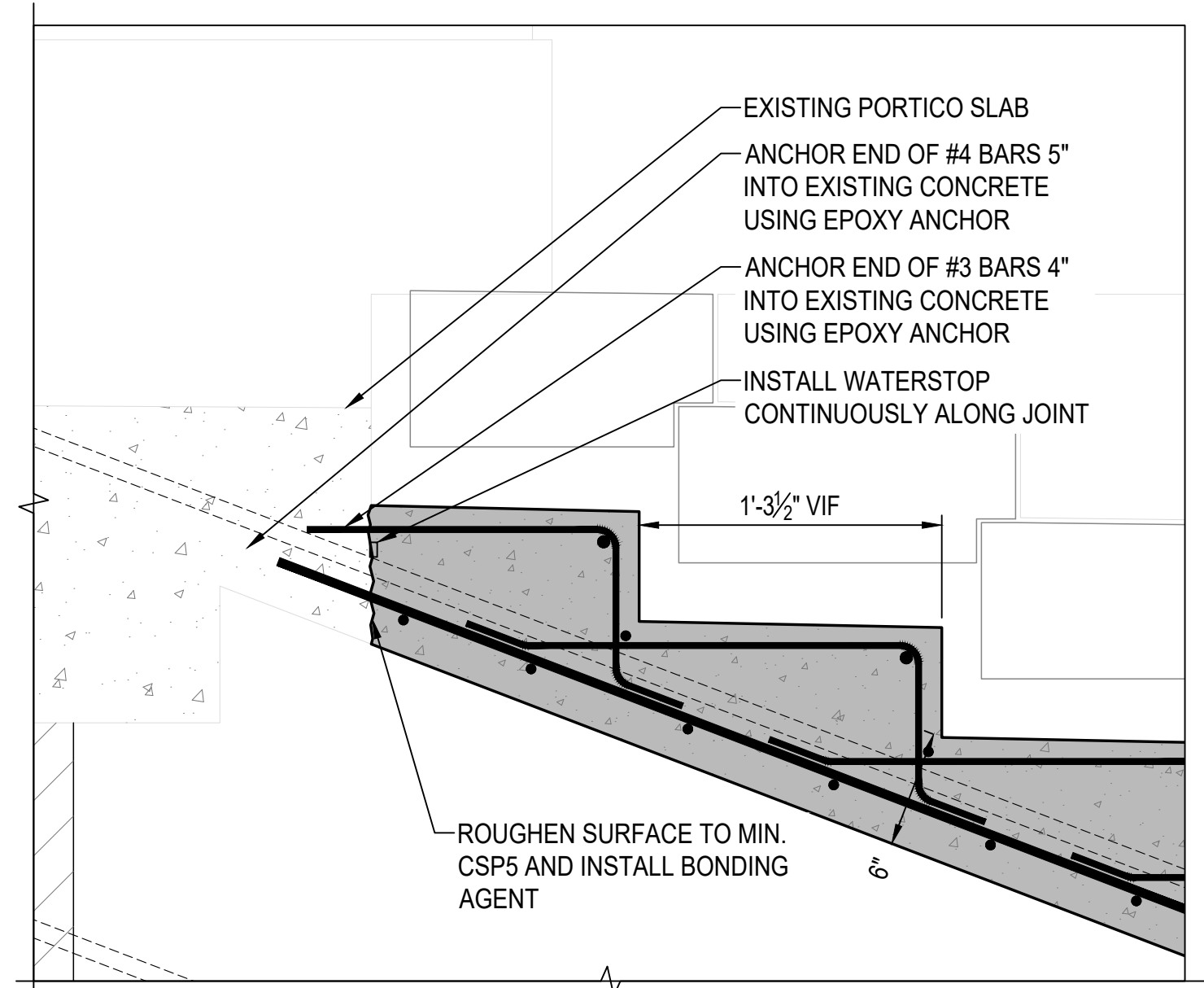
SHEET NUMBER
S5.03



1
S5.03
STRUCTURAL SECTION
SCALE: 1/2"=1'-0"

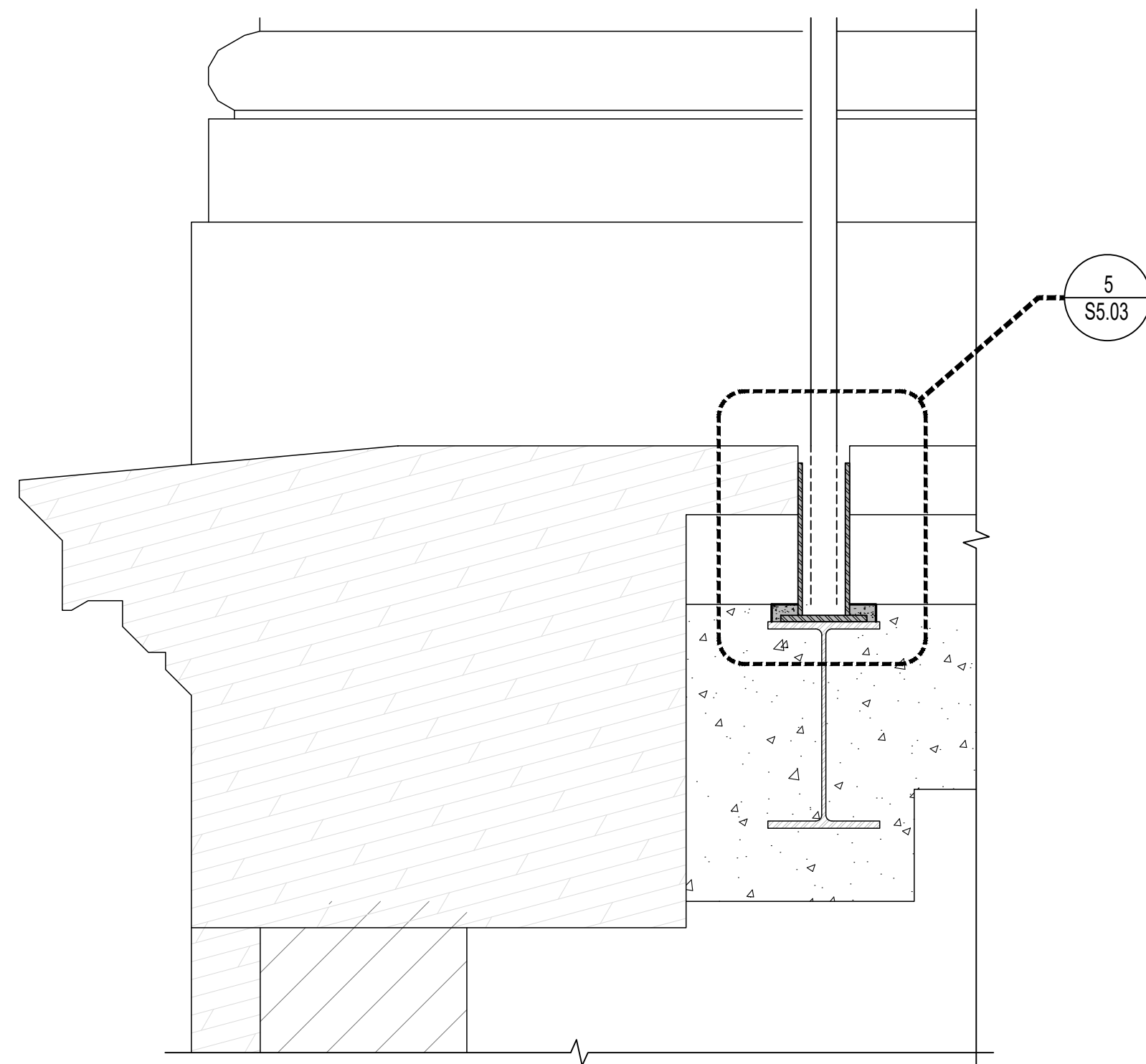


2
S5.03
STRUCTURAL SECTION
SCALE: 1/2"=1'-0"

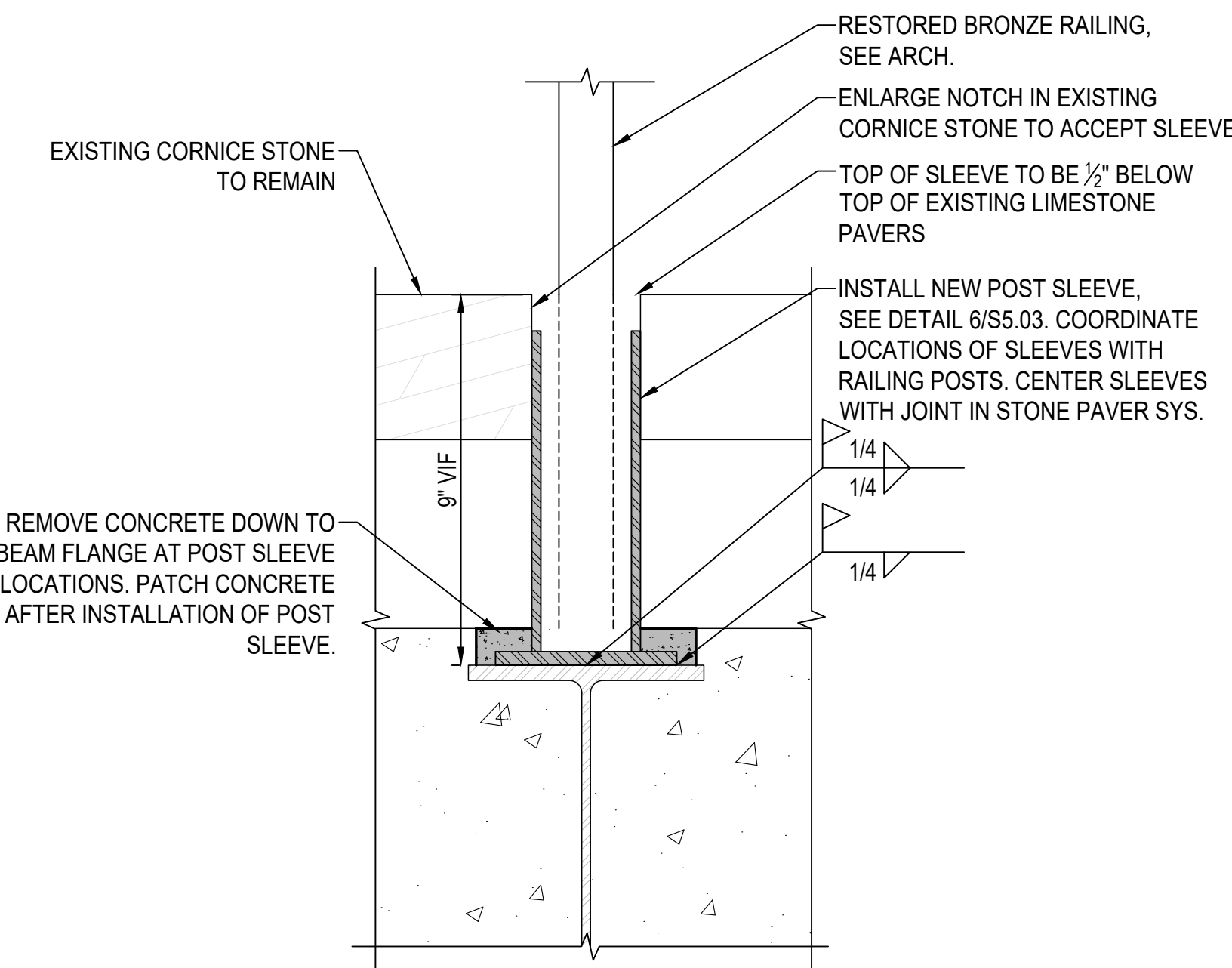


NOTE:
SEE DETAIL 1/S5.01 FOR TYPICAL TREAD REINFORCEMENT.

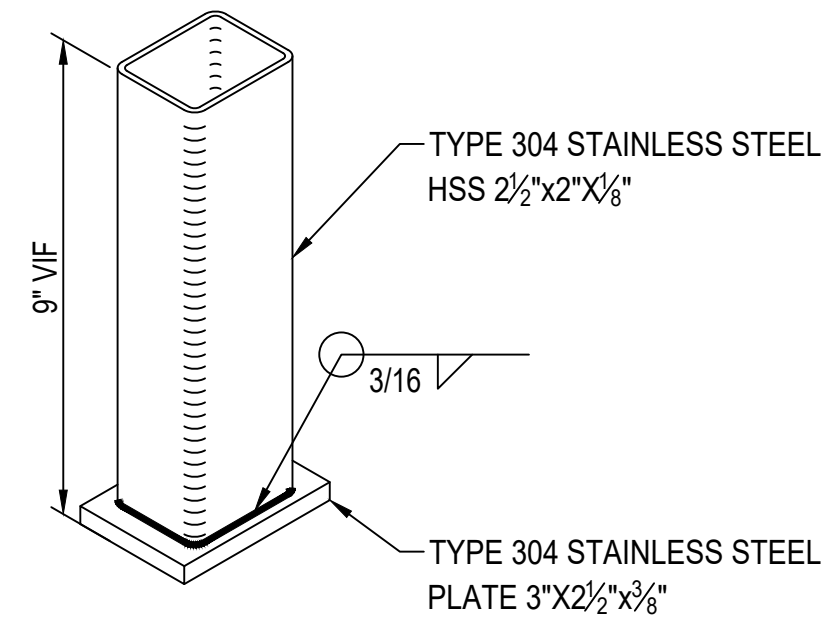
3
S5.03
STRUCTURAL SECTION
SCALE: 3/4"=1'-0"



4
S5.03
STRUCTURAL SECTION
SCALE: 1/2"=1'-0"



5
S5.03
STRUCTURAL RAIL CONNECTION DETAIL
SCALE: 3"=1'-0"



6
S5.03
POST SLEEVE DETAIL
SCALE: ISOMETRIC



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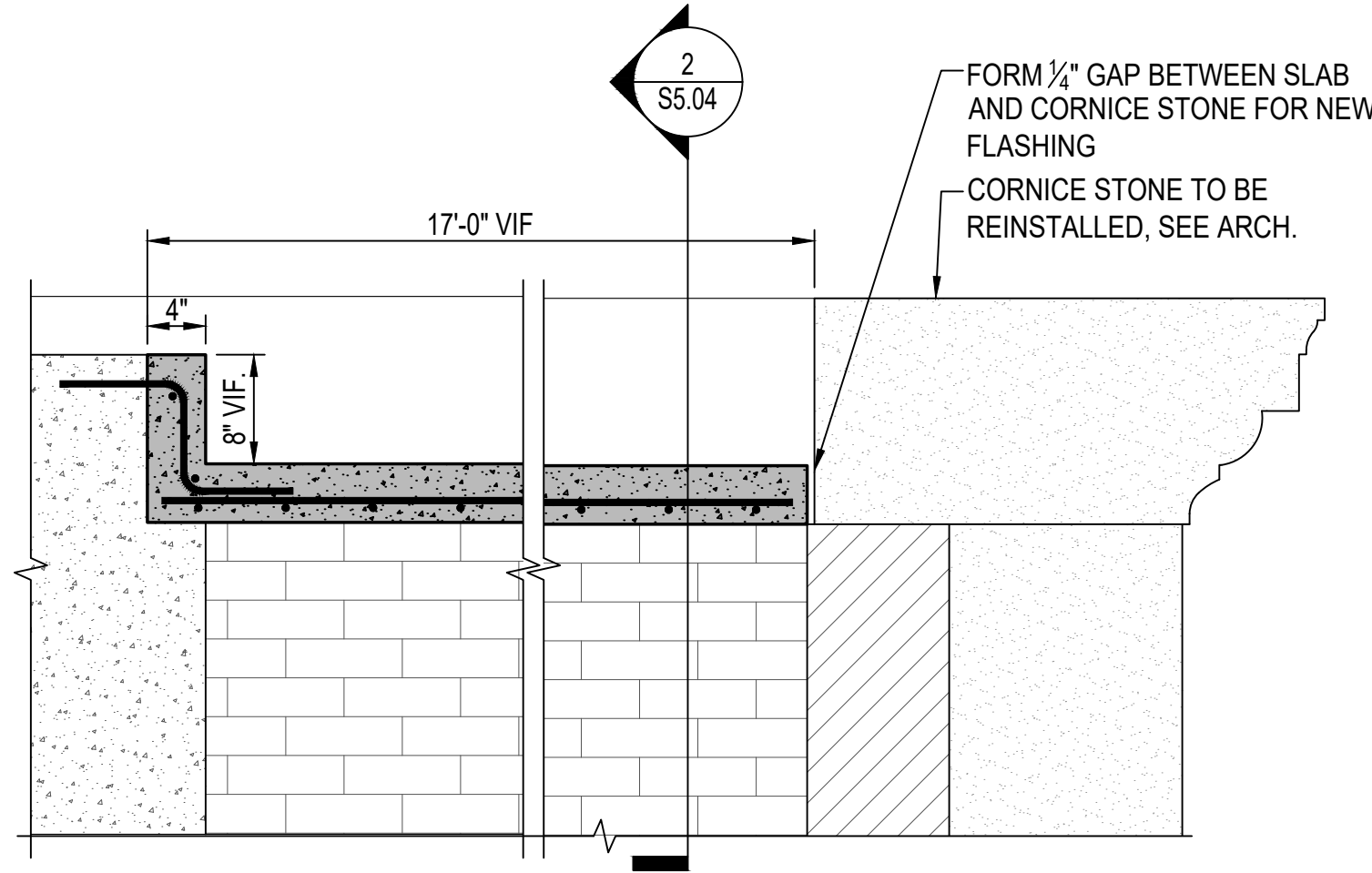
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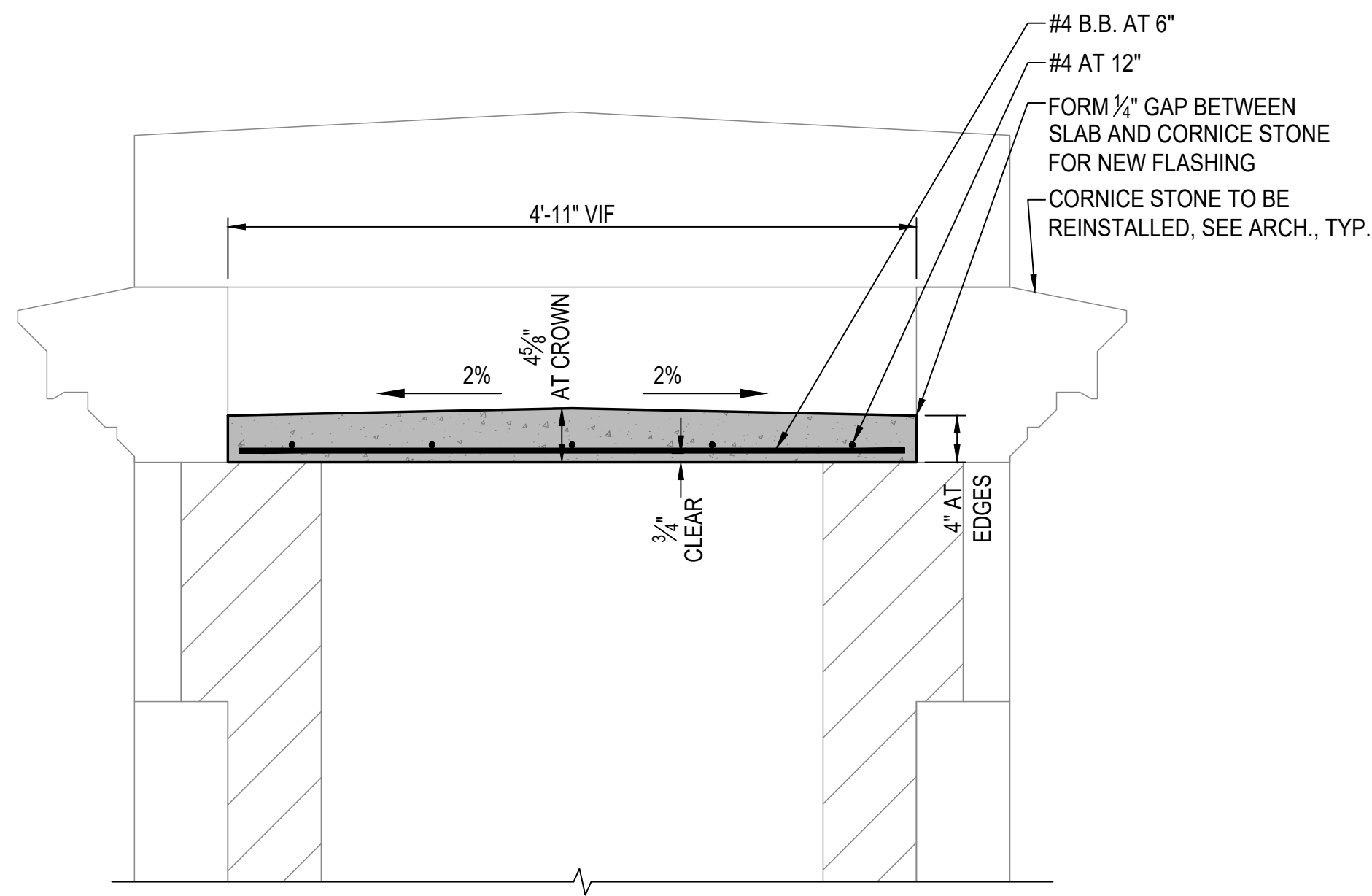
STRUCTURAL
REPAIR
DETAILS

SHEET NUMBER

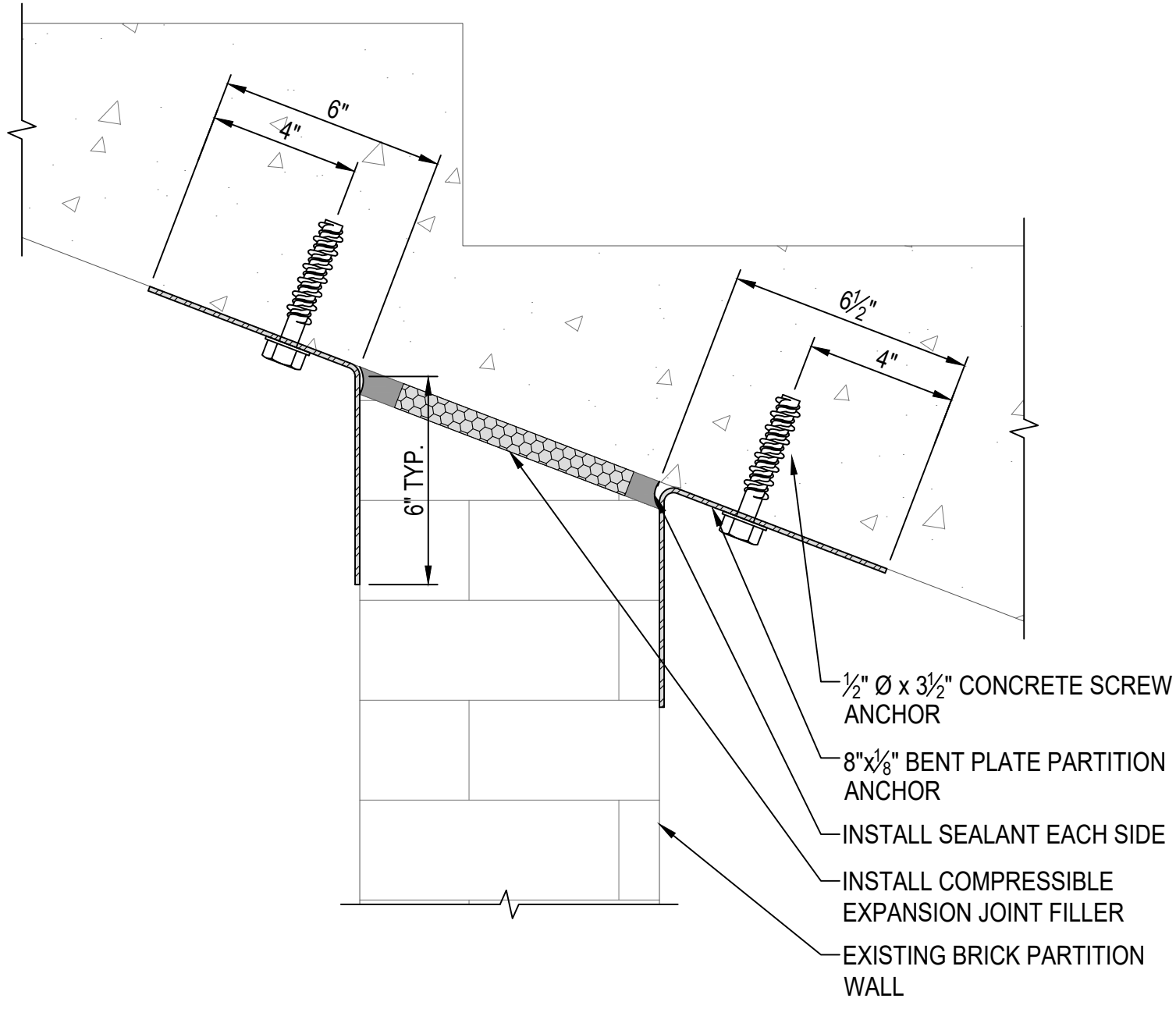
S5.04



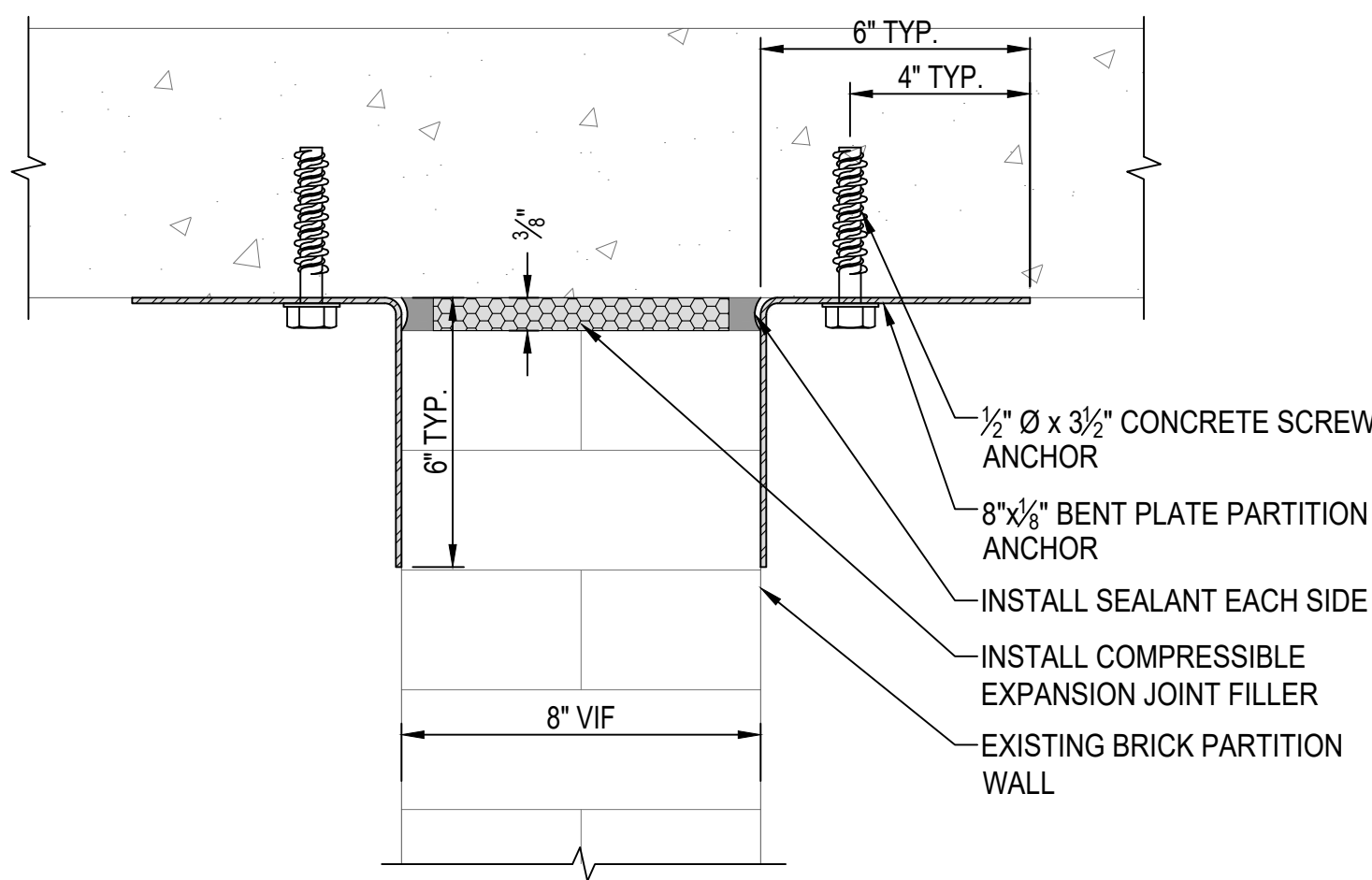
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S5.04
STRUCTURAL SECTION
SCALE: 1"=1'-0"



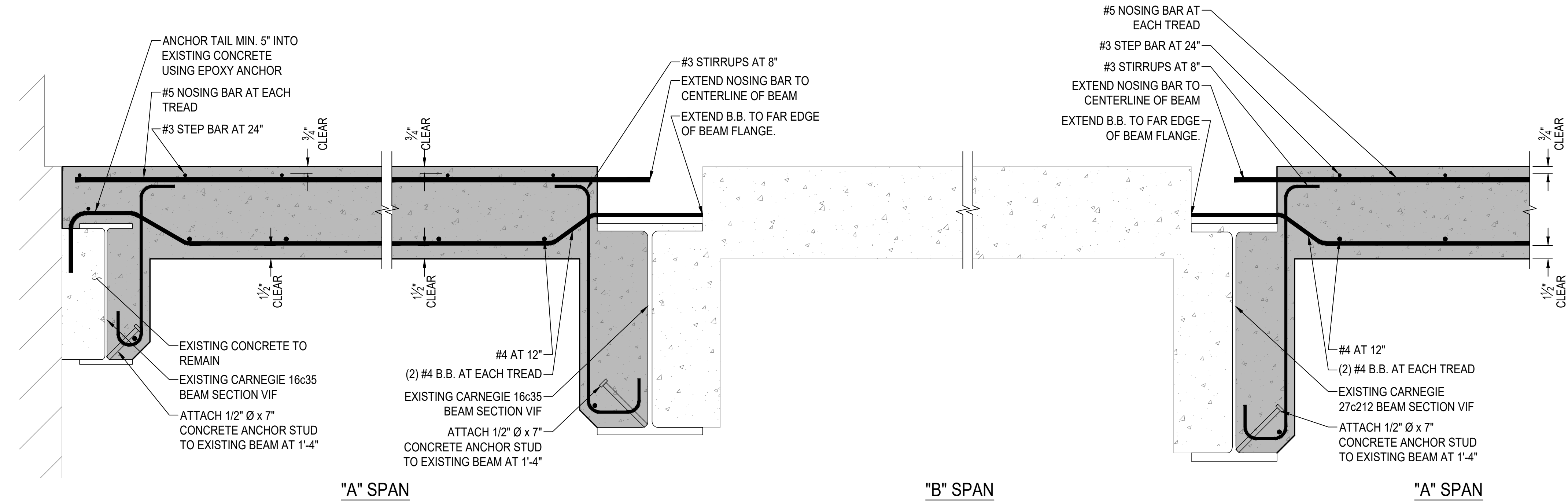
2
S5.04
STRUCTURAL SECTION
SCALE: 1"=1'-0"



3
S5.04
STRUCTURAL SECTION
SCALE: 3"=1'-0"



4
S5.04
STRUCTURAL SECTION
SCALE: 3"=1'-0"

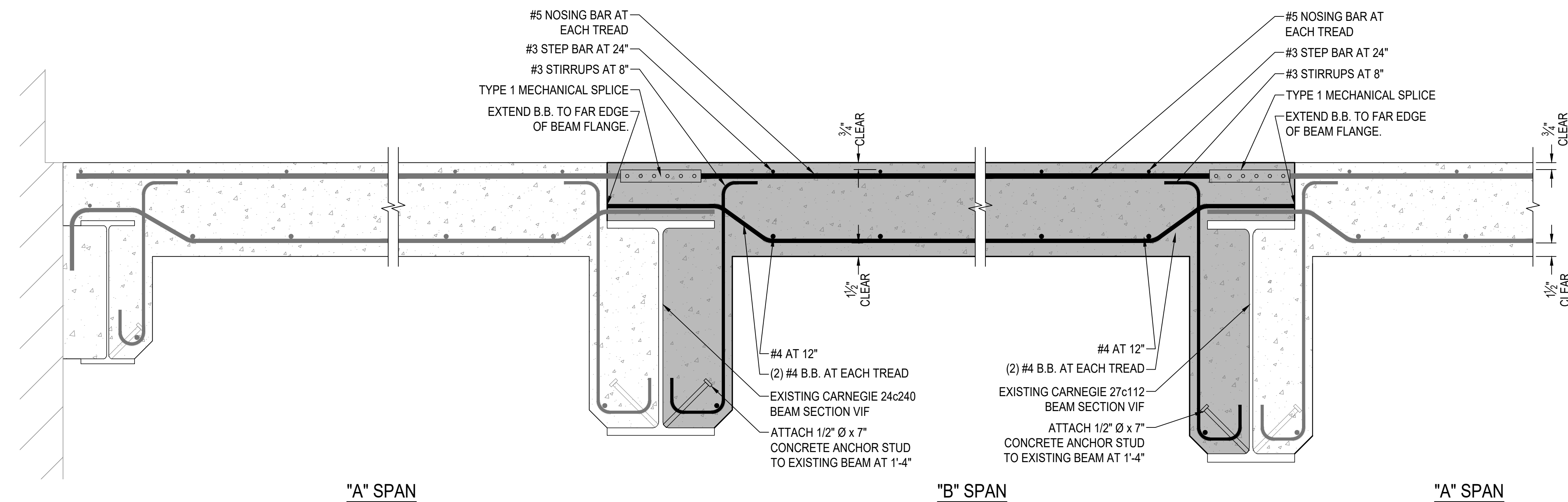


NOTE:
SEE DETAIL 1/S5.01 FOR TYPICAL STAIR TREAD REINFORCEMENT

UPPER FLIGHT PHASE A CONCRETE REPLACEMENT DETAIL

1
S5.05

SCALE: 1/2"=1'-0"



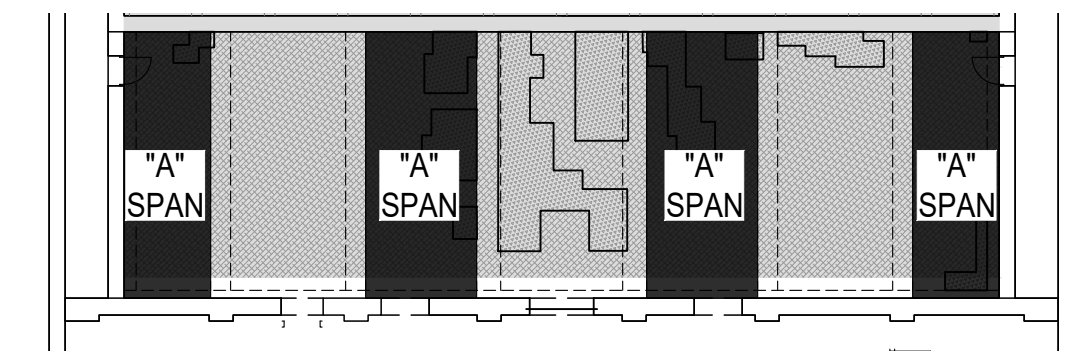
UPPER FLIGHT PHASE 2 CONCRETE REPLACEMENT DETAIL

2
S5.05

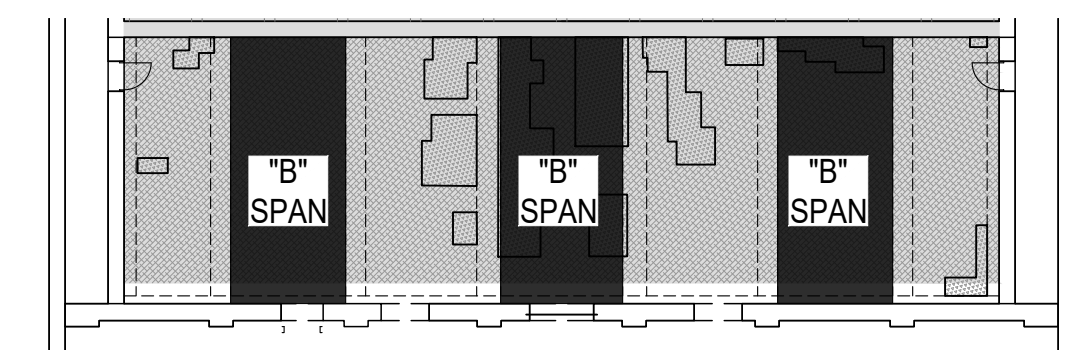
SCALE: 1/2"=1'-0"

SHEET NOTES:

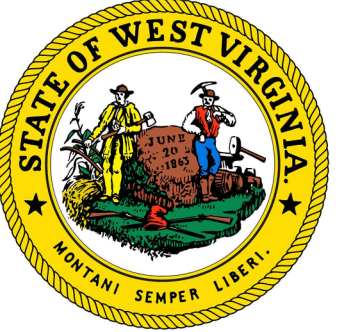
1. ALL SHORING SHALL REMAIN IN PLACE UNTIL COMPLETION OF ALL CONCRETE PLACEMENT AND PHASE B CONCRETE HAS BEEN ACHIEVED 70% OF ITS 28-DAY STRENGTH.
2. NOTIFY ENGINEER IMMEDIATELY IF SECTIONS LOSS IN EXCESS OF 10% IS OBSERVED IN ANY STRUCTURAL STEEL MEMBERS.



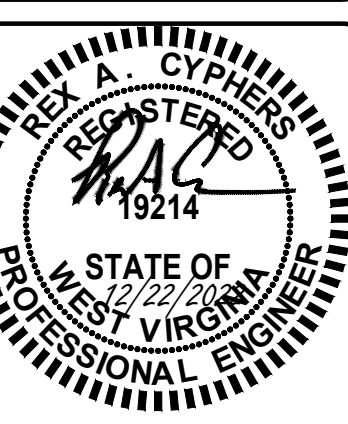
LOCATION KEY



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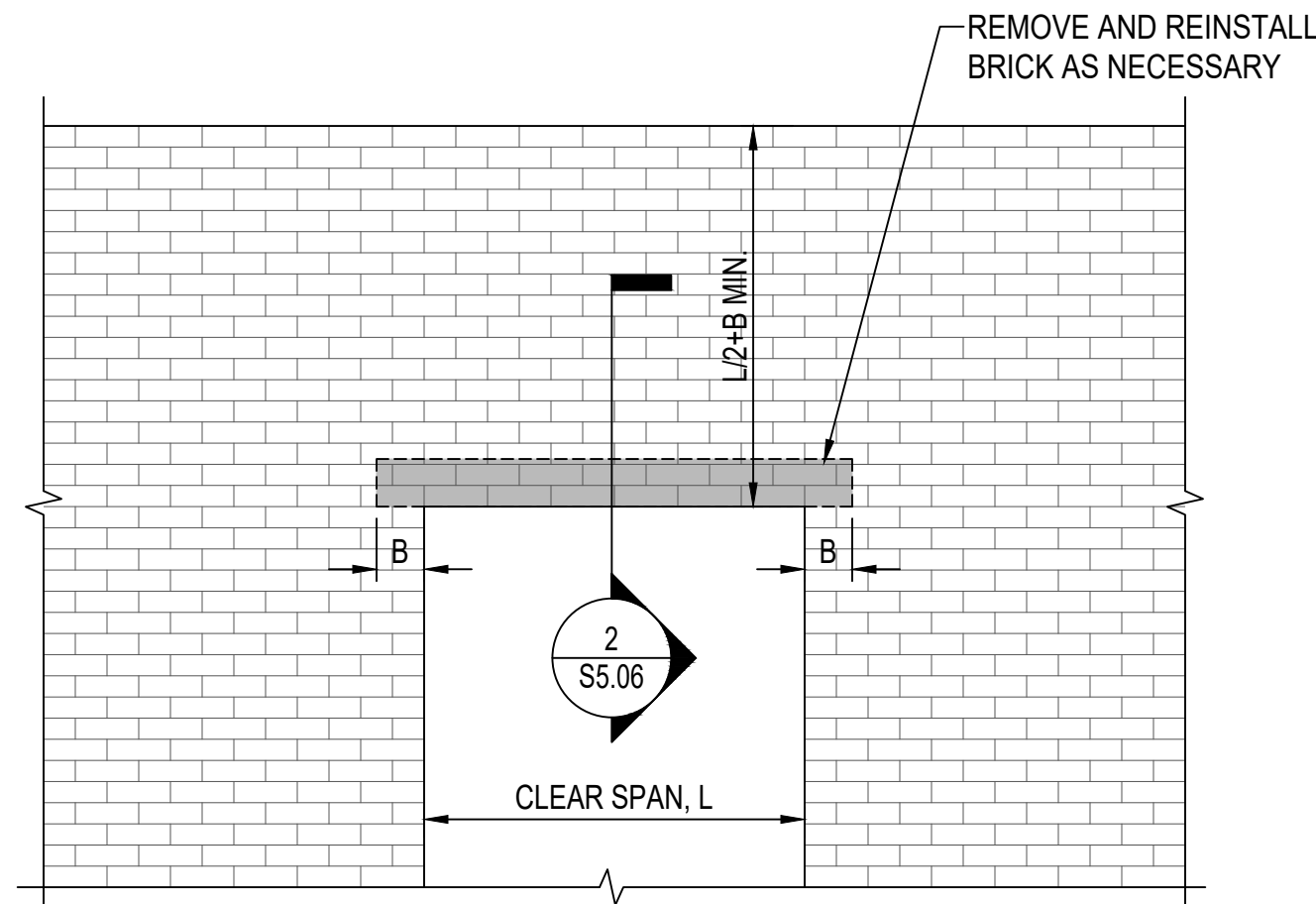
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SHEET NAME

STRUCTURAL
REPAIR
DETAILS

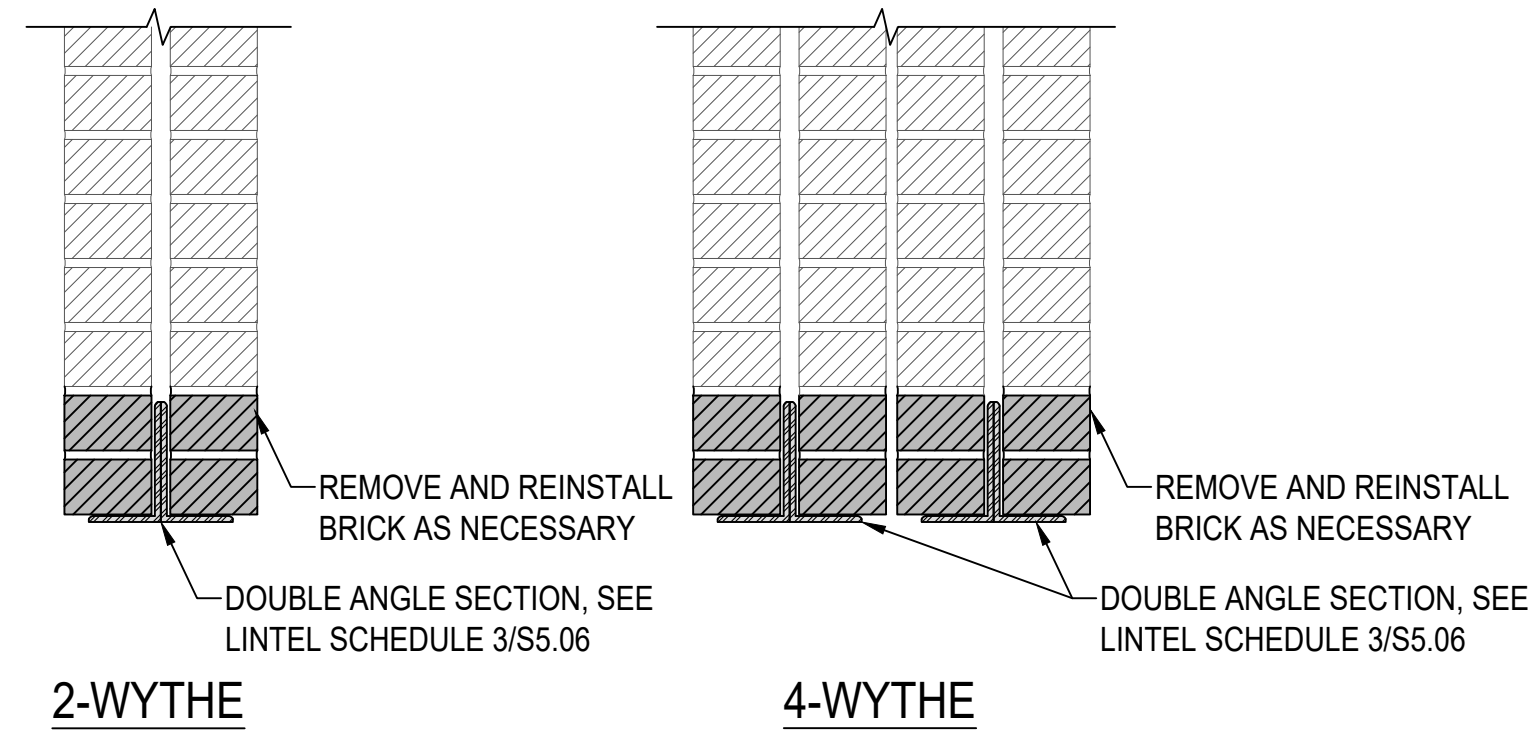
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S5.05

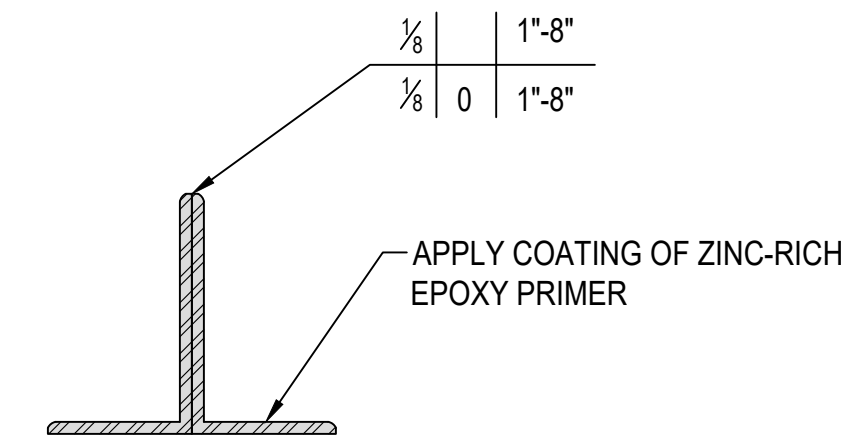


NOTE:
DETAIL IS FOR COMPLETED CONSTRUCTION. CONTRACTOR
SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING,
SEQUENCING, AND REMOVAL LIMITS DURING CONSTRUCTION

1
S5.06
LINTEL DETAIL
SCALE: 1/2"=1'-0"

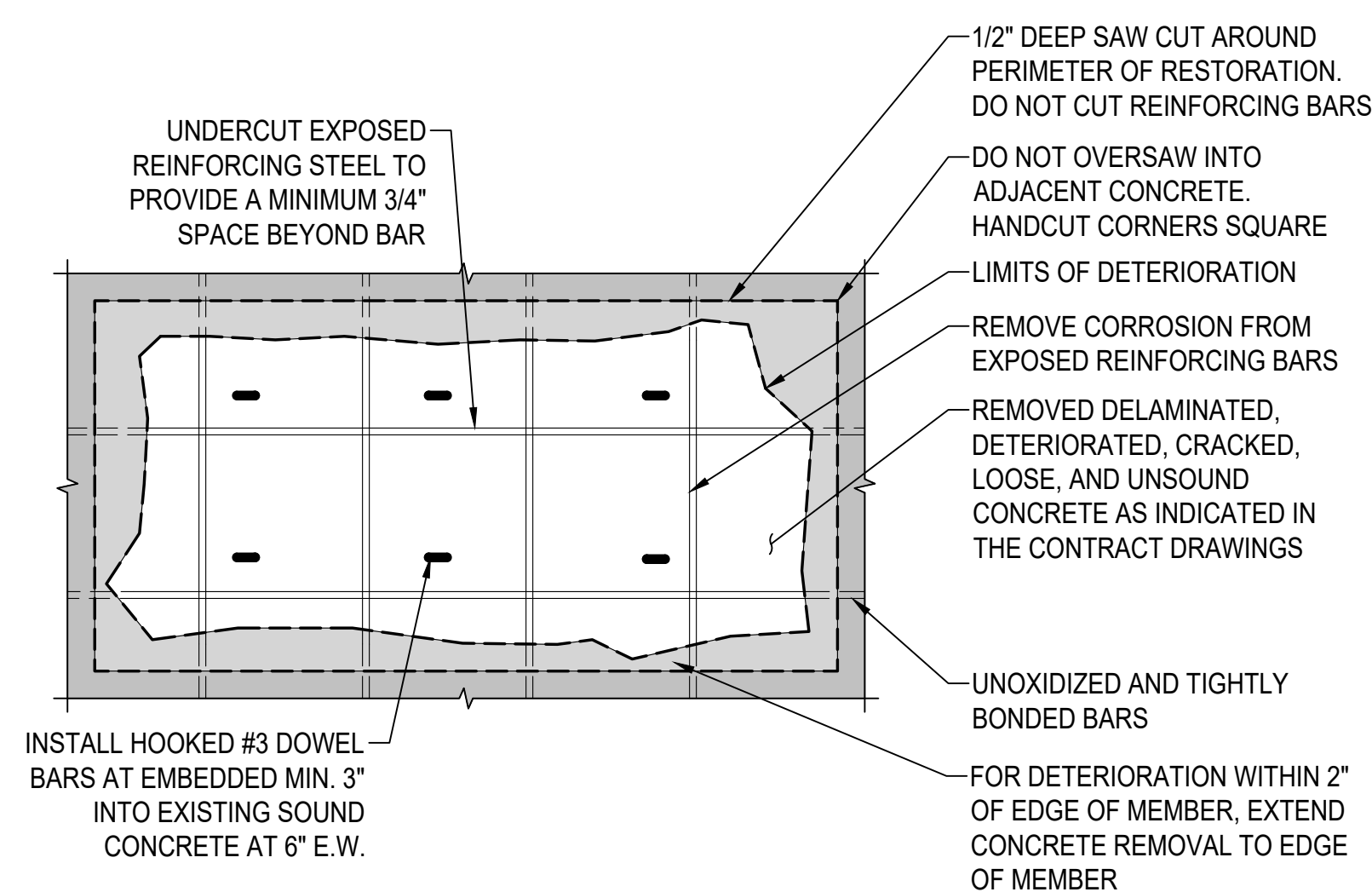


2
S5.06
LINTEL SECTION DETAILS
SCALE: 1 1/2"=1'-0"

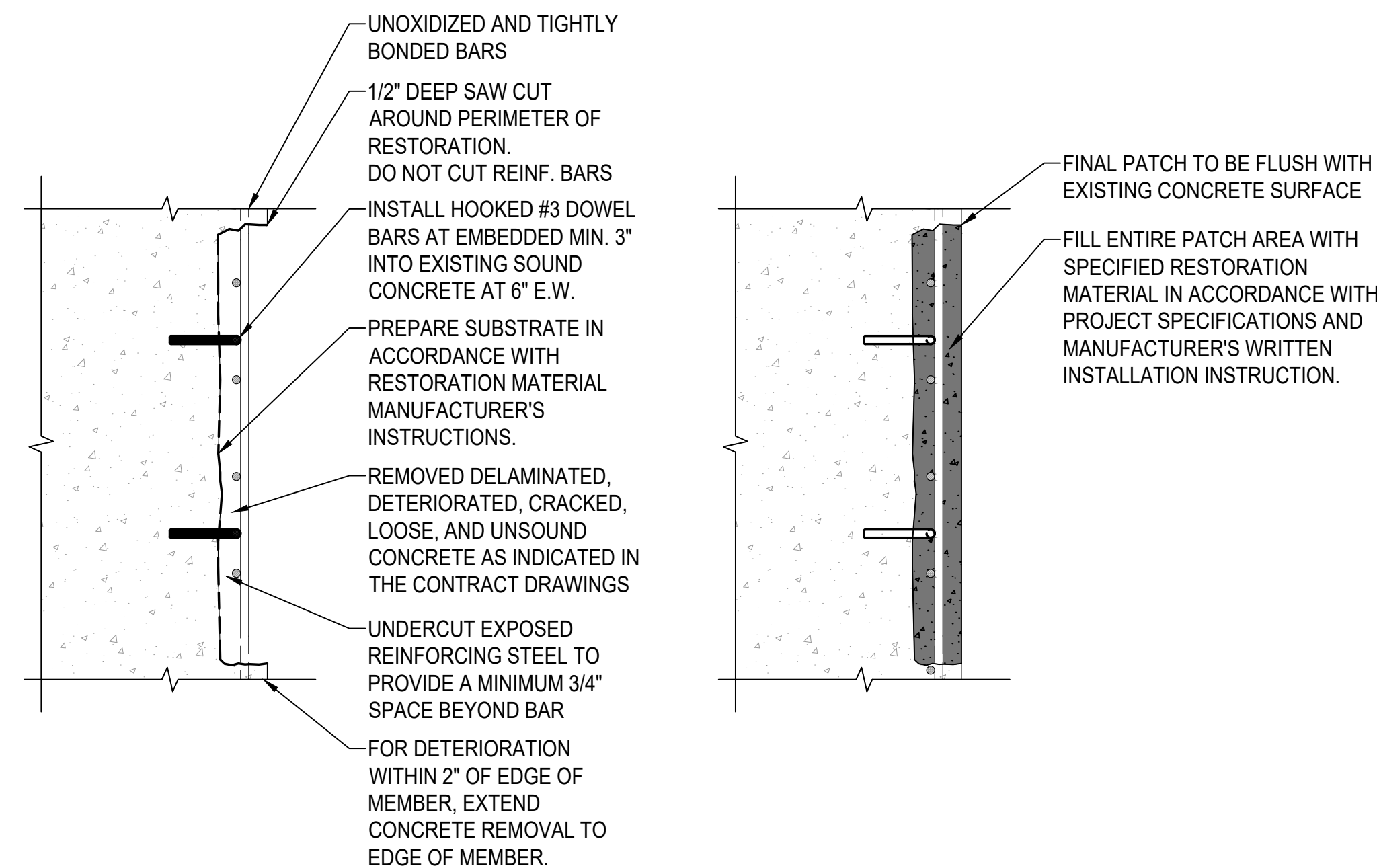


CLEAR SPAN L	BEARING B	DOUBLE ANGLE SECTION
4'-0" MAX.	4" MIN.	2L3x3x3/16
6'-0" MAX.	4" MIN.	2L4x3x1/4 LLBB
8'-0" MAX.	4" MIN.	2L5x3x1/4 LLBB

3
S5.06
LINTEL SCHEDULE
SCALE: NTS

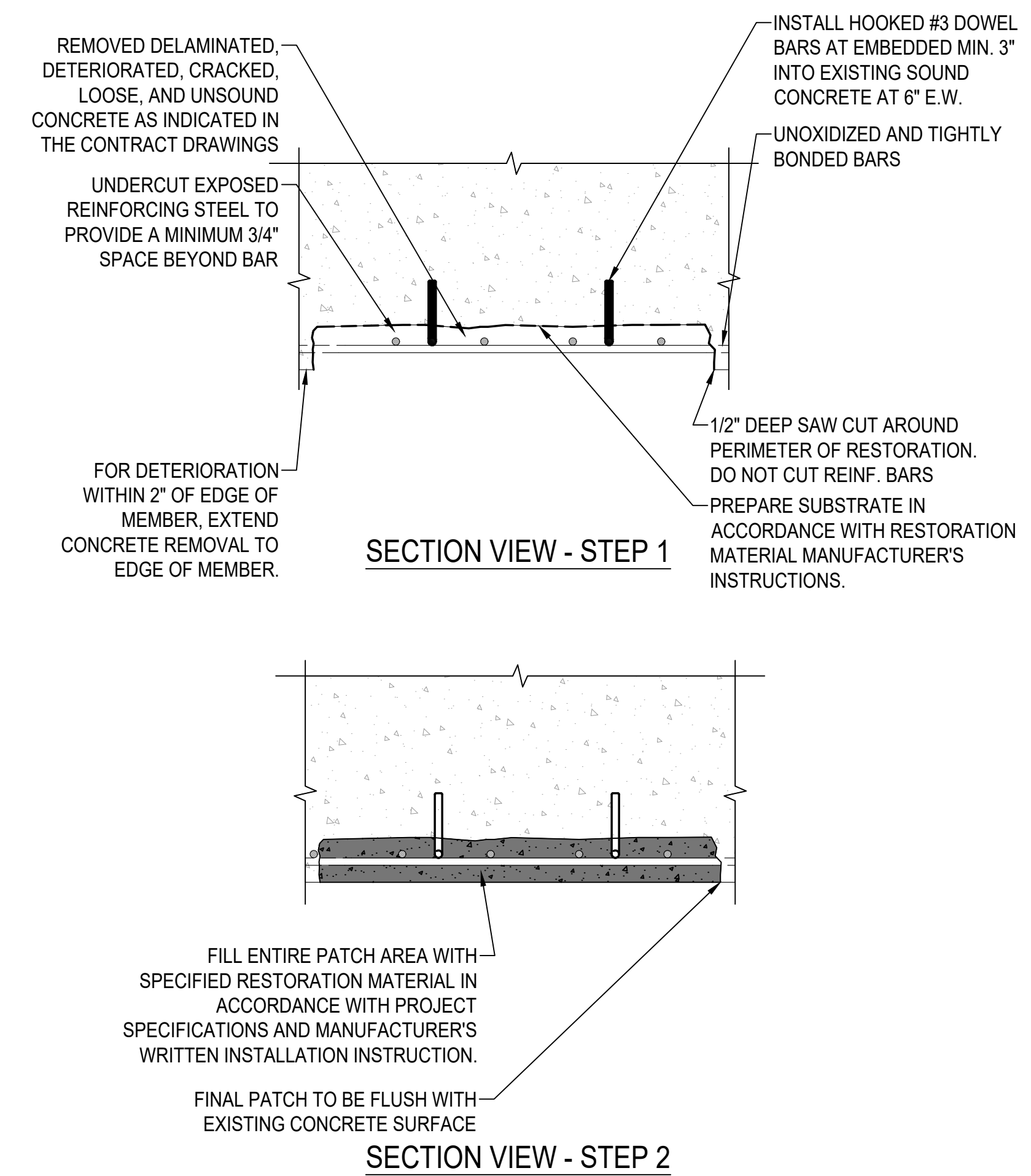


4
S5.06
CONCRETE PATCH REPAIR DETAIL
SCALE: VARIES



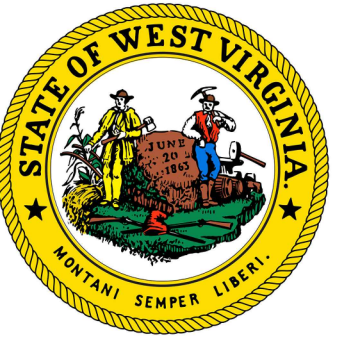
SECTION VIEW - STEP 1

SECTION VIEW - STEP 2

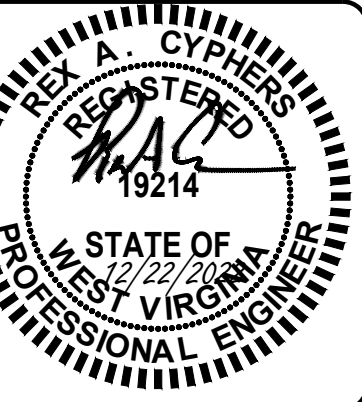


SECTION VIEW - STEP 1

SECTION VIEW - STEP 2



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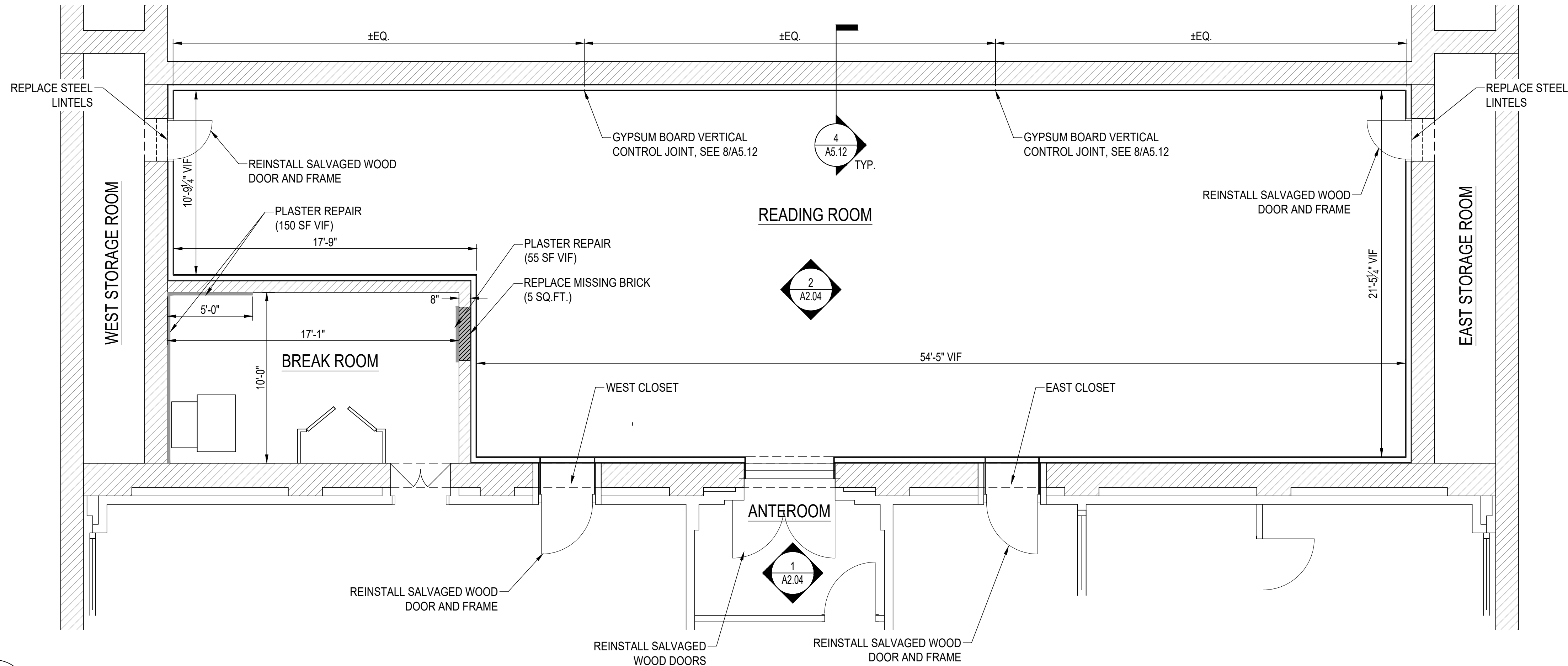
SUBMISSION DATE 12/22/22
WDP JOB NUMBER 21060
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CHECK RAC

SHEET NAME

STRUCTURAL
REPAIR
DETAILS

SHEET NUMBER

S5.06



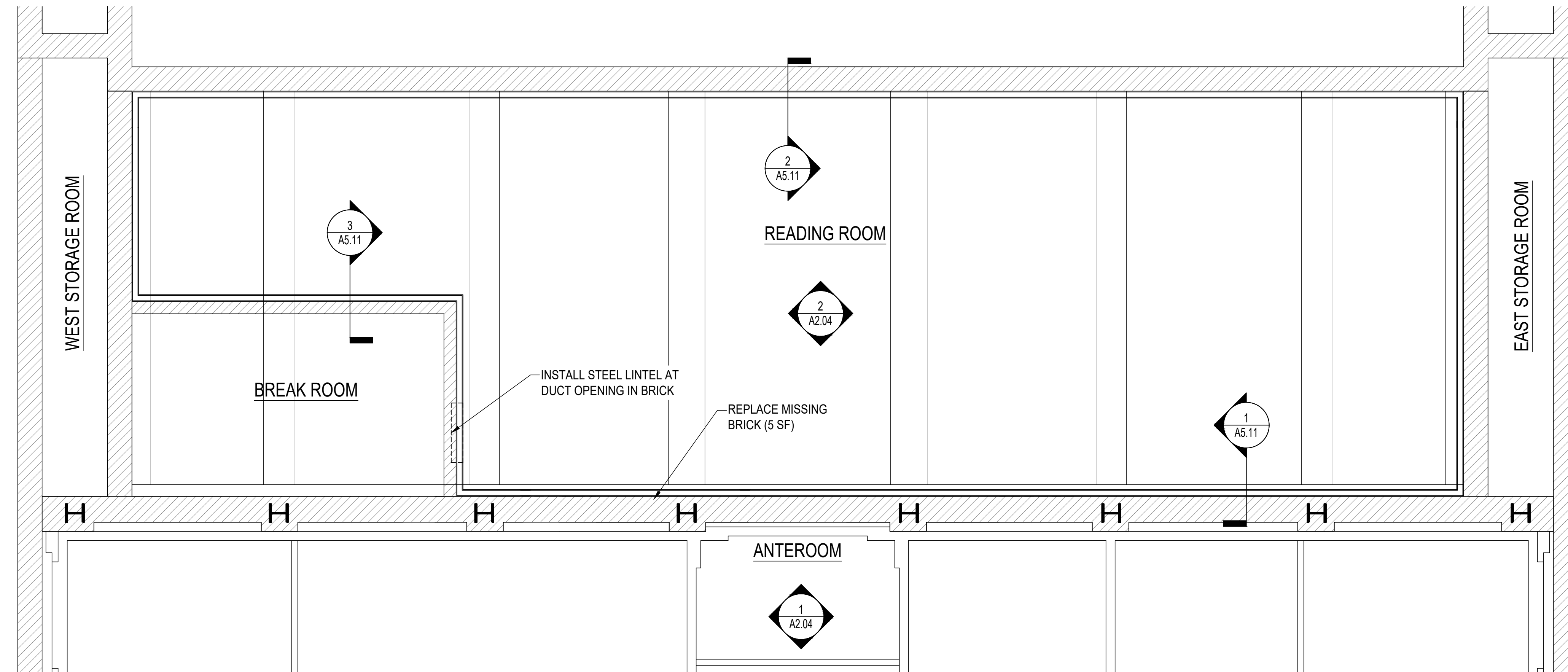
LEGEND	
	PLASTER REPAIR PER SHEET A5.05
	NEW WALL FRAMING

SHEET NOTES:

- SEE 3/A5.06 FOR INTERIOR FINISH SCHEDULE.
- SEE 1/S5.06 FOR STEEL LINTEL DETAIL.

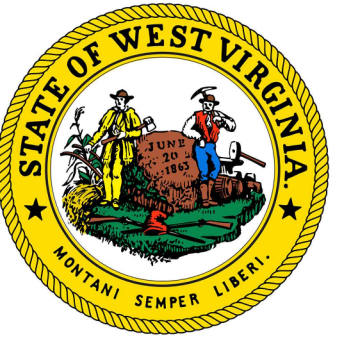
1 GROUND FLOOR PLAN

SCALE: 1/2"=1'-0"
NOTE:
SEE 1/A1.01 FOR FINISH SCHEDULE.

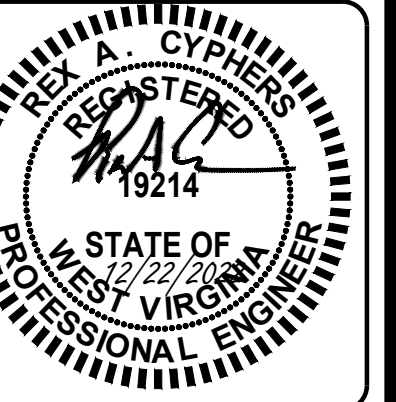


2 GROUND FLOOR REFLECTED CEILING PLAN

SCALE: 1/2"=1'-0"
NOTE:
SEE 1/A1.01 FOR FINISH SCHEDULE.



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SHEET NAME

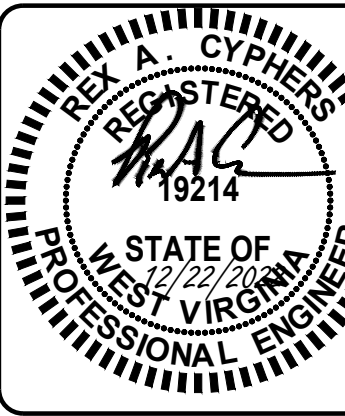
GROUND FLOOR PLANS

SHEET NUMBER

A1.01



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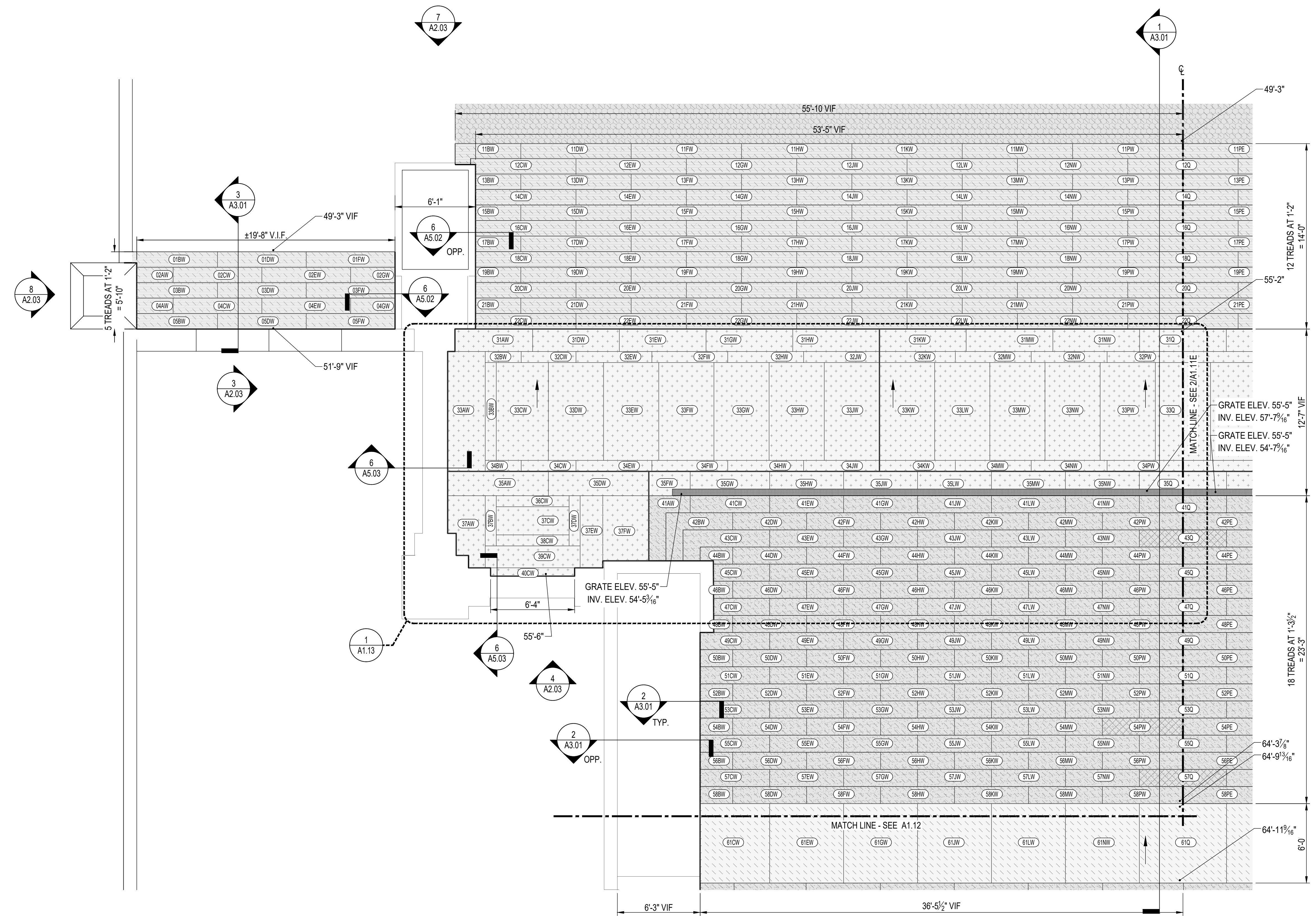
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WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME
LOWER WEST STAIR PLAN

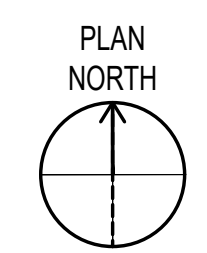
SHEET NUMBER
A1.11W

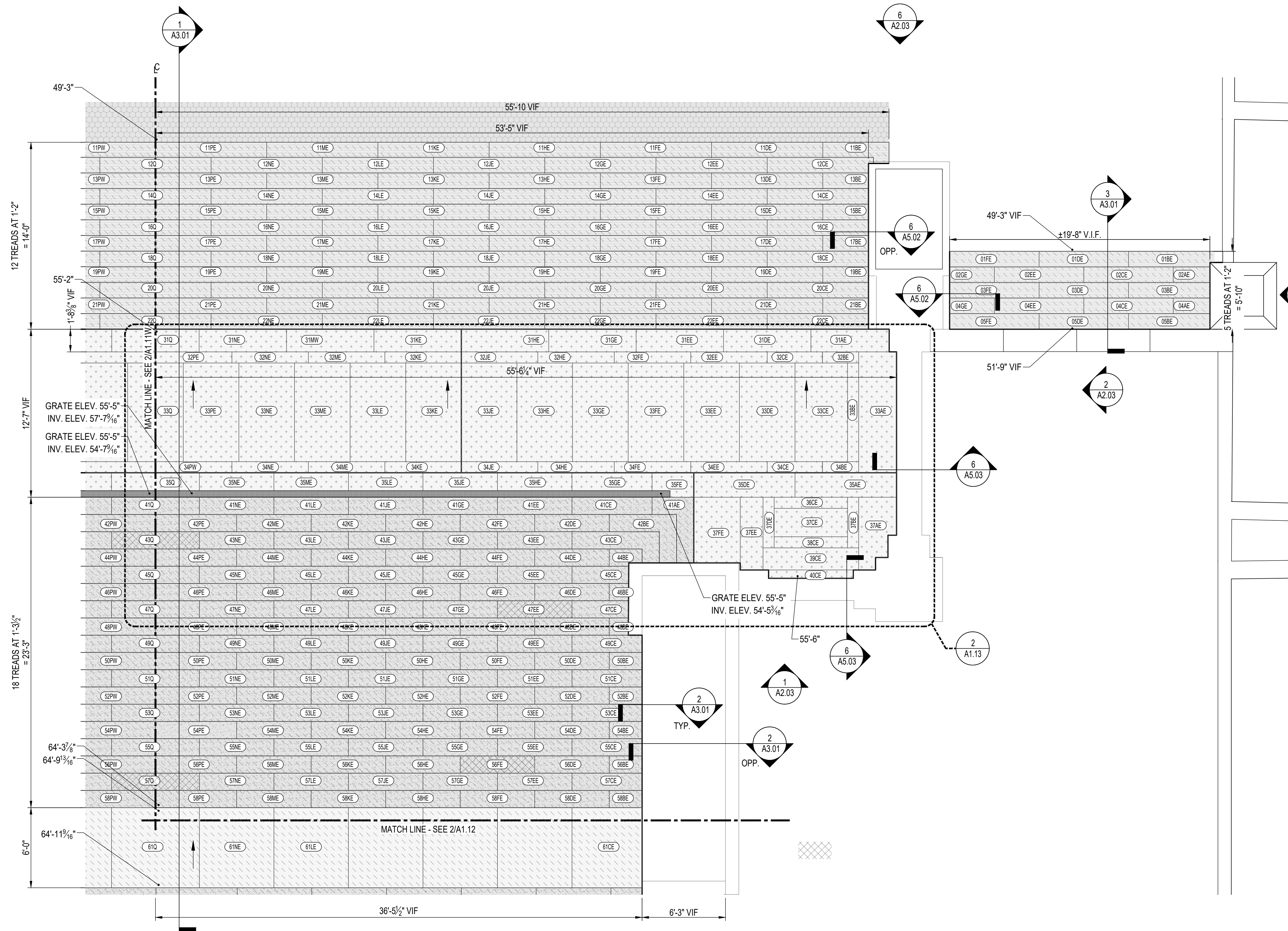
KEY LEGEND	
	REINSTALL SALVAGED UNITS
	REPLACE DAMAGED UNITS
	INSTALL NEW UNITS
	LIMESTONE PAVERS
	LIMESTONE STAIR TREADS
	GRANITE STAIR TREADS
	CONCRETE PAVERS
	TEXTURED SEALANT EXPANSION JOINT

- SHEET NOTES:
- ELEVATIONS SHOWN ASSUME A BENCHMARK ELEVATION OF 74'-0" AT THE FIRST FLOOR. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND SHALL NOTIFY ENGINEER ABOUT ANY DISCREPANCIES BETWEEN ELEVATIONS SHOWN IN THE DRAWINGS AND ACTUAL ELEVATIONS IN THE FIELD.
 - PAVER DIMENSIONS SHOWN ARE NOMINAL.
 - JOINTS IN NEW LIMESTONE SHALL BE $\frac{3}{8}$ ".
 - LAYOUT STONE IN ADVANCE TO ENSURE FIT AND REPLACEMENT TO ORIGINAL POSITION.



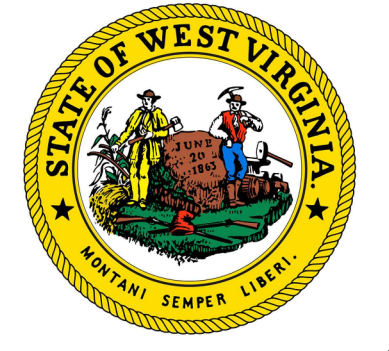
1
A1.11W
LOWER STAIR AND PLATFORM PLAN
SCALE: $\frac{1}{4}$ "=1'-0"



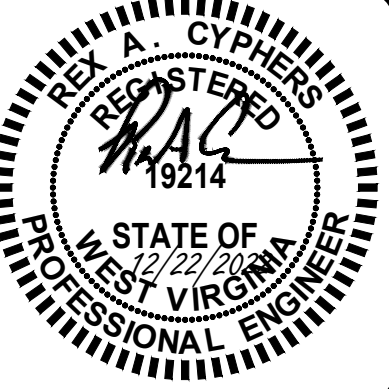


KEY LEGEND	
	REINSTALL SALVAGED UNITS
	REPLACE DAMAGED UNITS
	INSTALL NEW UNITS
	LIMESTONE PAVERS
	LIMESTONE STAIR TREADS
	GRANITE STAIR TREADS
	CONCRETE PAVERS
	TEXTURED SEALANT EXPANSION JOINT

- SHEET NOTES:
- ELEVATIONS SHOWN ASSUME A BENCHMARK ELEVATION OF 74'-0" AT THE FIRST FLOOR. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL ELEVATIONS AND SHALL NOTIFY ENGINEER ABOUT ANY DISCREPANCIES BETWEEN ELEVATIONS SHOWN IN THE DRAWINGS AND ACTUAL ELEVATIONS IN THE FIELD.
 - PAVER DIMENSIONS SHOWN ARE NOMINAL.
 - JOINTS IN NEW LIMESTONE SHALL BE 3/8".
 - LAYOUT STONE IN ADVANCE TO ENSURE FIT AND REPLACEMENT TO ORIGINAL POSITION.



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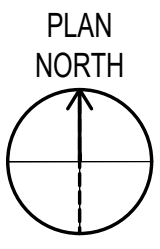
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DESIGN	PBD
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CHECK	RAC

SHEET NAME
LOWER WEST STAIR PLAN

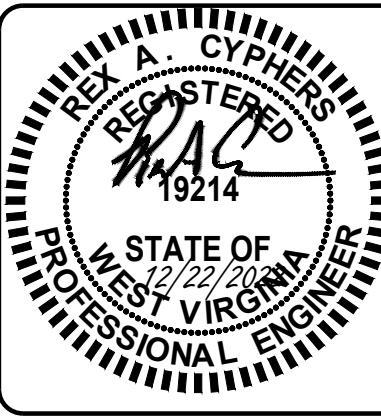
SHEET NUMBER
A1.11E

1
A1.11E
LOWER STAIR AND PLATFORM PLAN
SCALE: 1/4"=1'-0"





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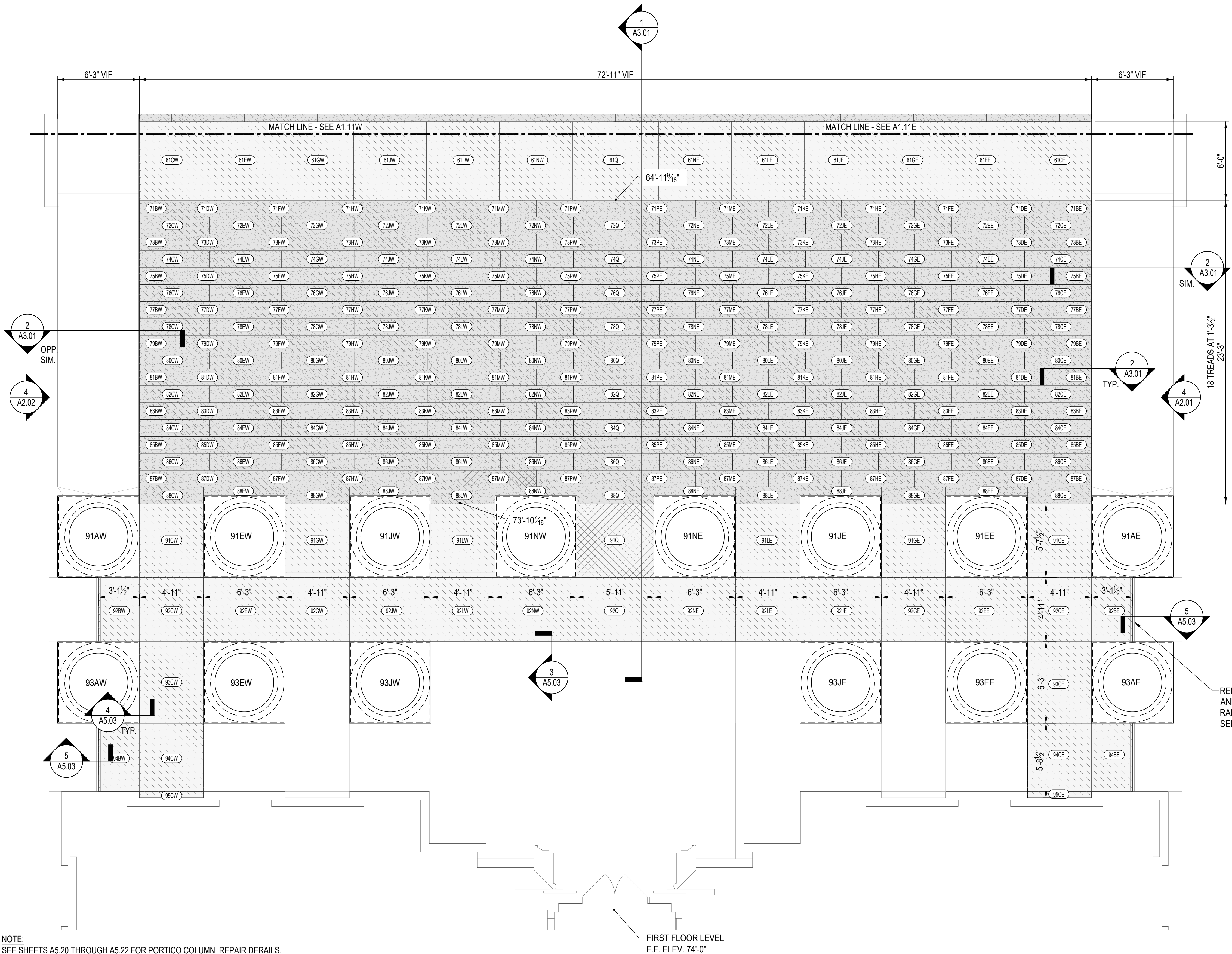
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SHEET NAME
**UPPER STAIR
& PORTICO
PLAN**

SHEET NUMBER
A1.12

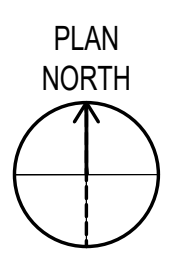
KEY LEGEND	
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	REPLACE DAMAGED UNITS
	INSTALL NEW UNITS
	LIMESTONE PAVERS
	LIMESTONE STAIR TREADS
	GRANITE STAIR TREADS
	CONCRETE PAVERS
	TEXTURED SEALANT EXPANSION JOINT

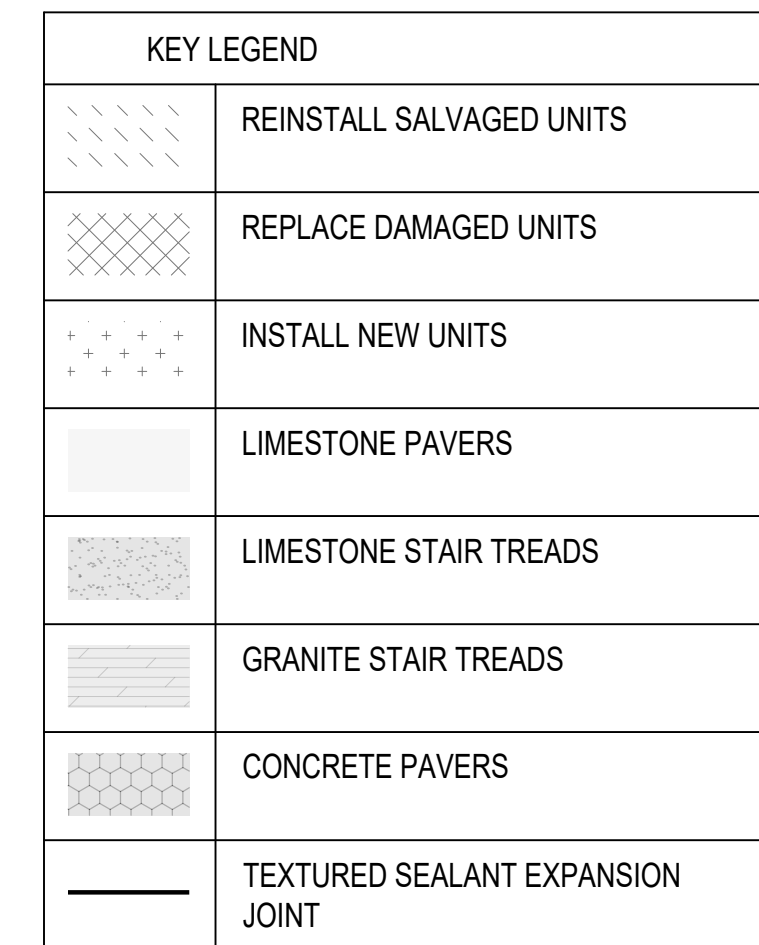
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 - PAVER DIMENSIONS SHOWN ARE NOMINAL.
 - JOINTS IN NEW LIMESTONE SHALL BE 3/8".
 - LAYOUT STONE IN ADVANCE TO ENSURE FIT AND REPLACEMENT TO ORIGINAL POSITION.



NOTE:
SEE SHEETS A5.20 THROUGH A5.22 FOR PORTICO COLUMN REPAIR DETAILS.

1
A1.12
UPPER STAIR AND PORTICO PLAN
SCALE: 1/4"=1'-0"





1
A1.13

WEST PLATFORM PAVER PLAN

SCALE: $\frac{3}{8}"=1'-0"$

PLAN
NORTH



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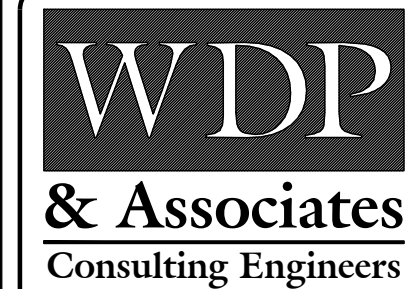
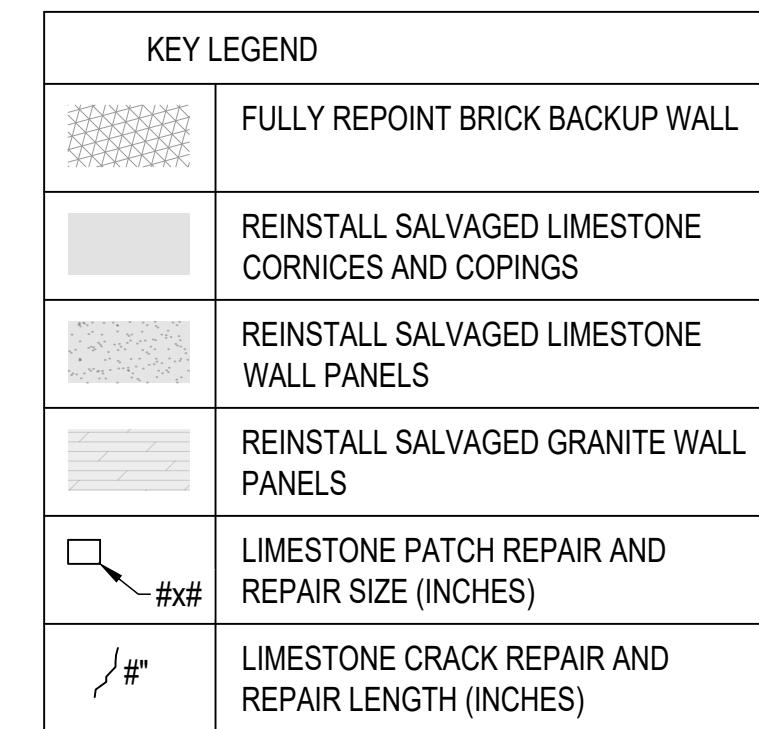
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SHEET NAME

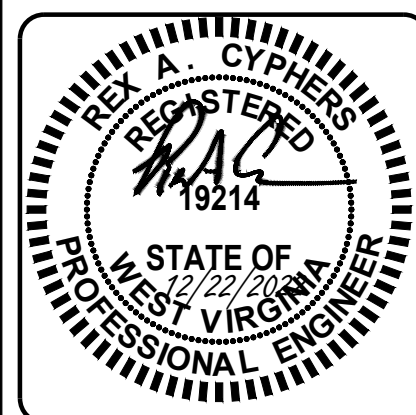
PLATFORM
PAVER PLAN

SHEET NUMBER

A1.13



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<u>DRAFT</u>	DT
<u>CHECK</u>	RAC

SHEET NAME

EAST CHEEKWALL ELEVATIONS

SHEET NUMBER

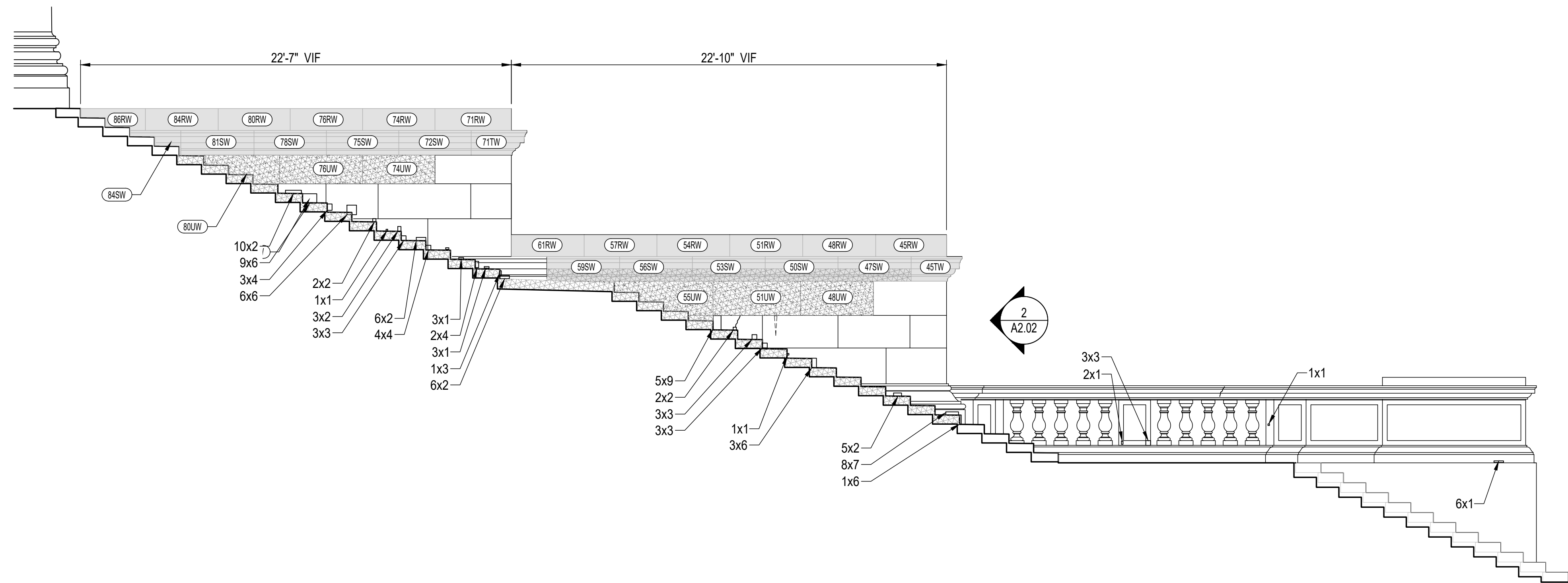
A2.01

2
A2.01

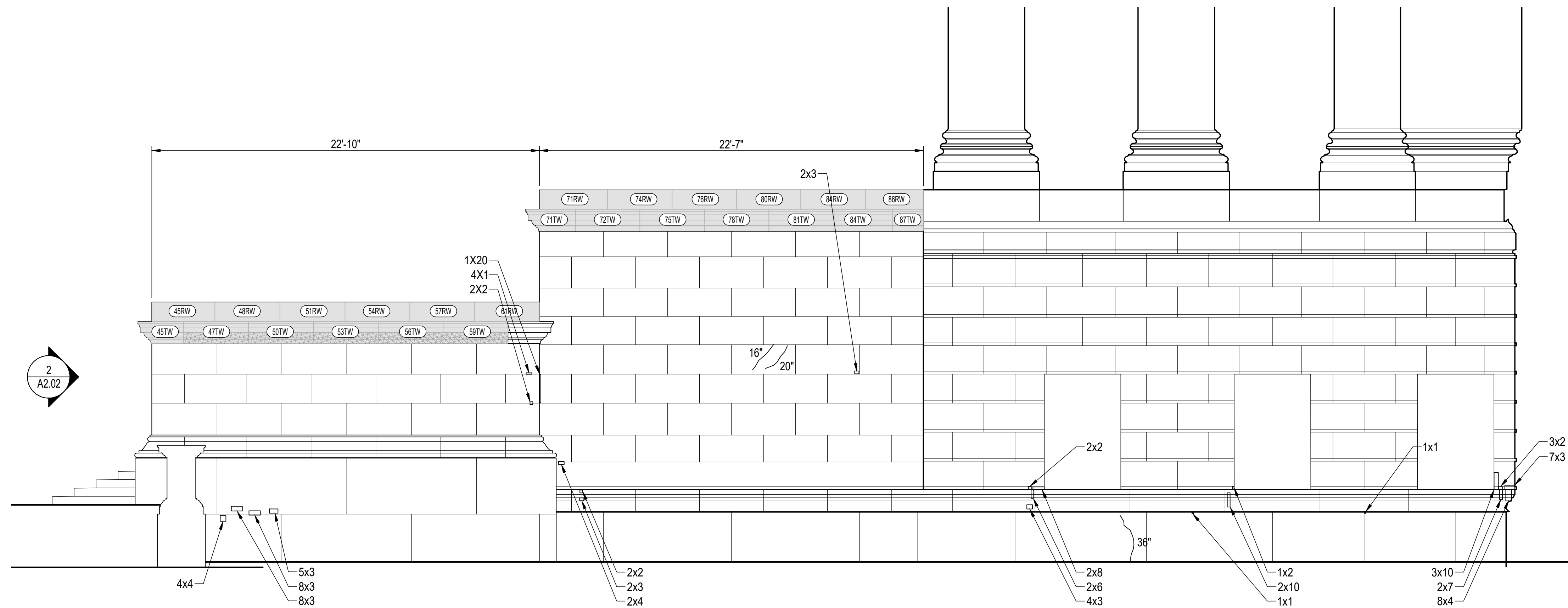
EAST CHEEK WALL
WEST ELEVATION

SCALE: $\frac{1}{4}"=1'-0"$

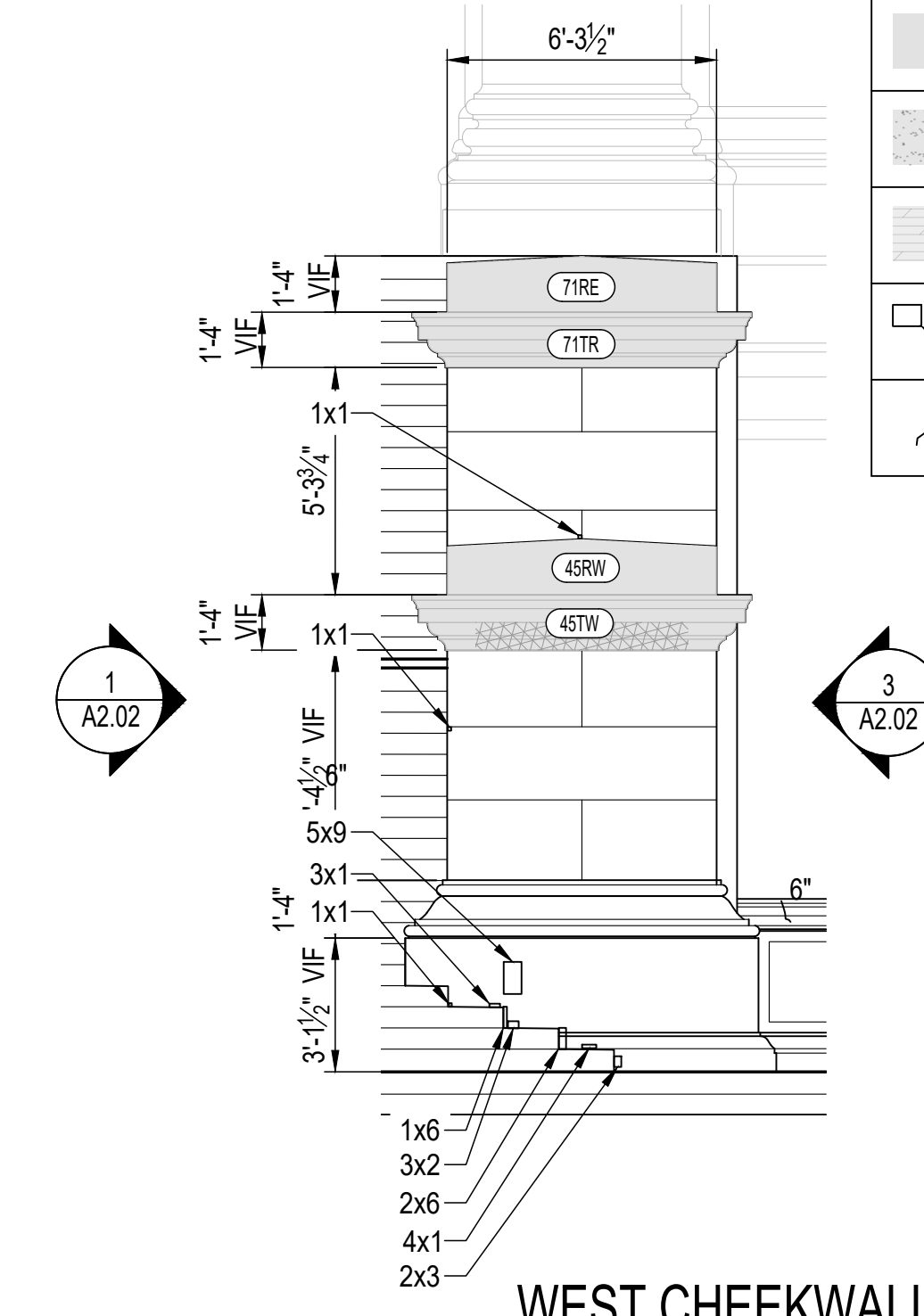




1
A2.02
WEST CHEEK WALL
EAST ELEVATION
SCALE: 1/4"=1'-0"



4
A2.02
WEST CHEEKWALL AND PORTICO WEST ELEVATION
SCALE: 1/4"=1'-0"



3
A2.02
WEST CHEEKWALL
NORTH ELEVATION

KEY LEGEND	
	FULLY REPOINT BRICK BACKUP WALL
	REINSTALL SALVAGED LIMESTONE CORNICES AND COPINGS
	REINSTALL SALVAGED LIMESTONE WALL PANELS
	REINSTALL SALVAGED GRANITE WALL PANELS
	LIMESTONE PATCH REPAIR AND REPAIR SIZE (INCHES)
	LIMESTONE CRACK REPAIR AND REPAIR LENGTH (INCHES)



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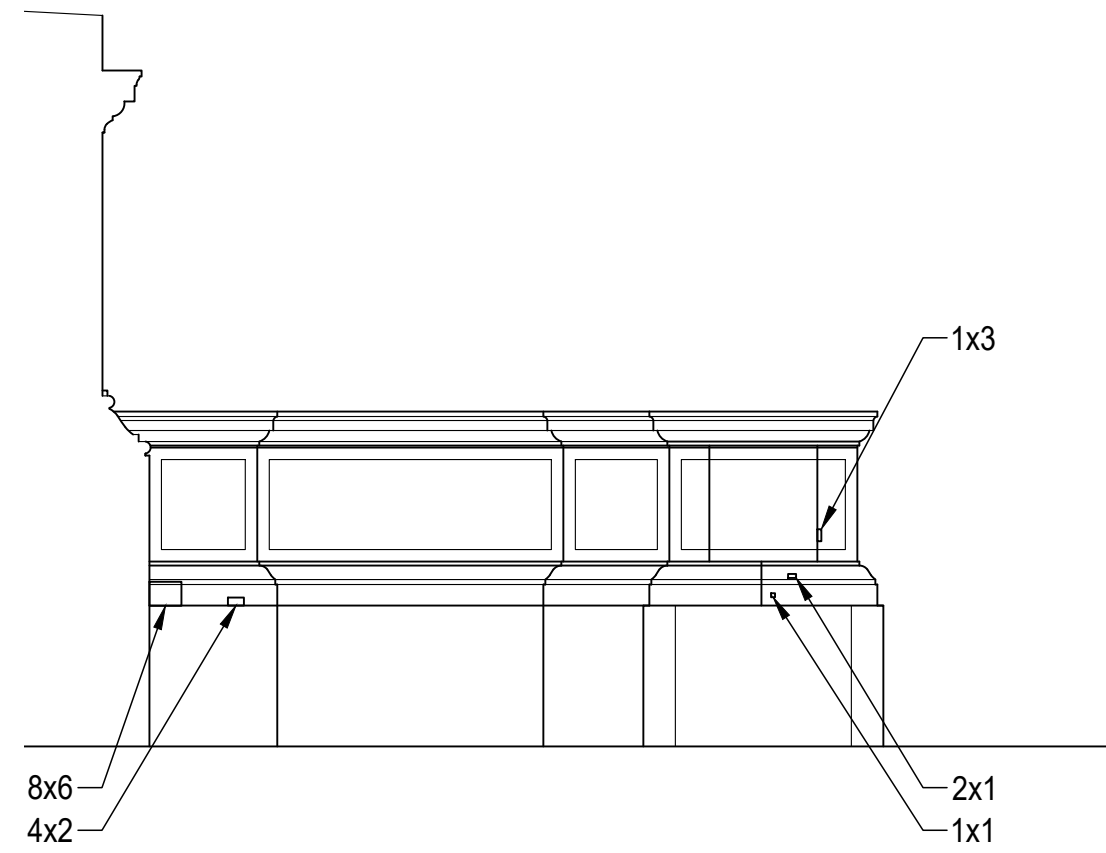
WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

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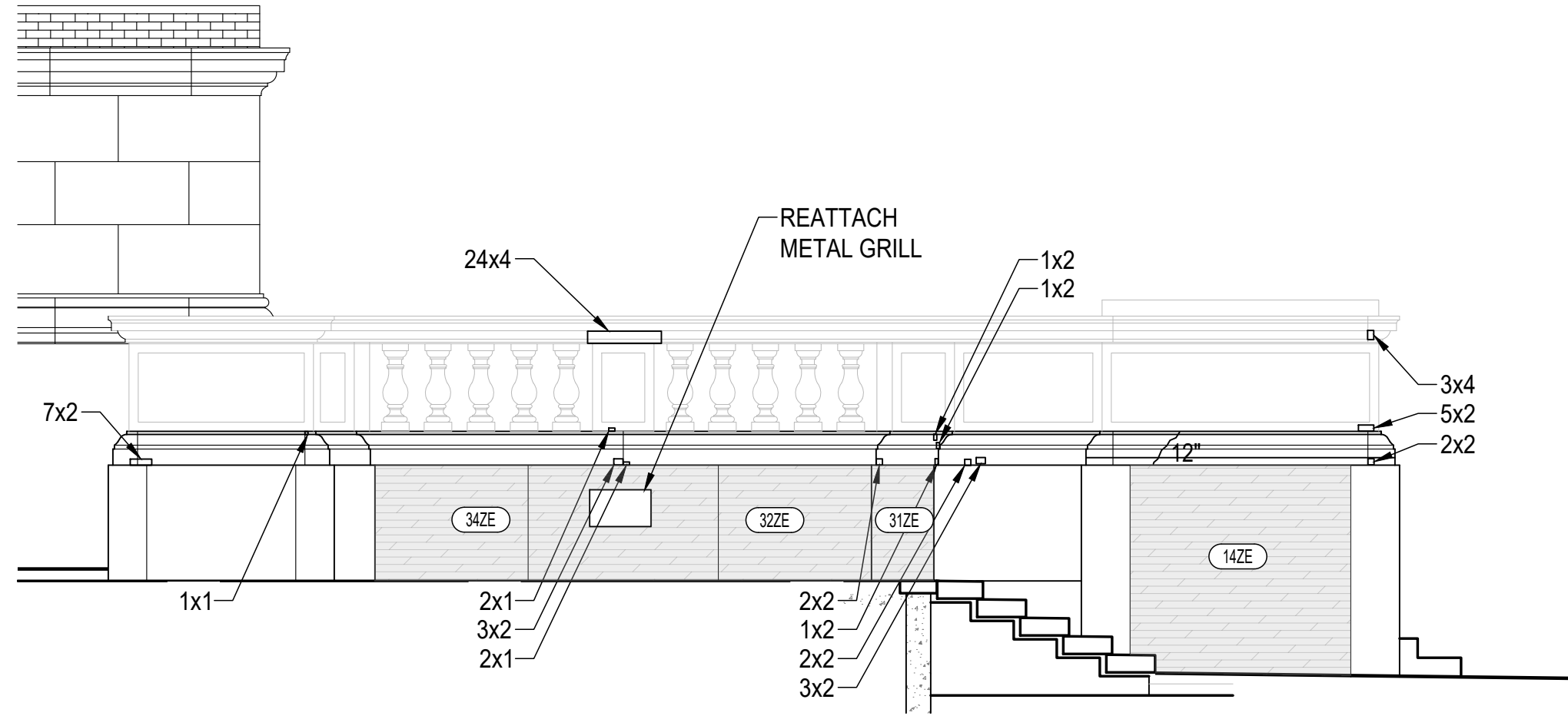
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME
WEST
CHEEKWALL
ELEVATIONS

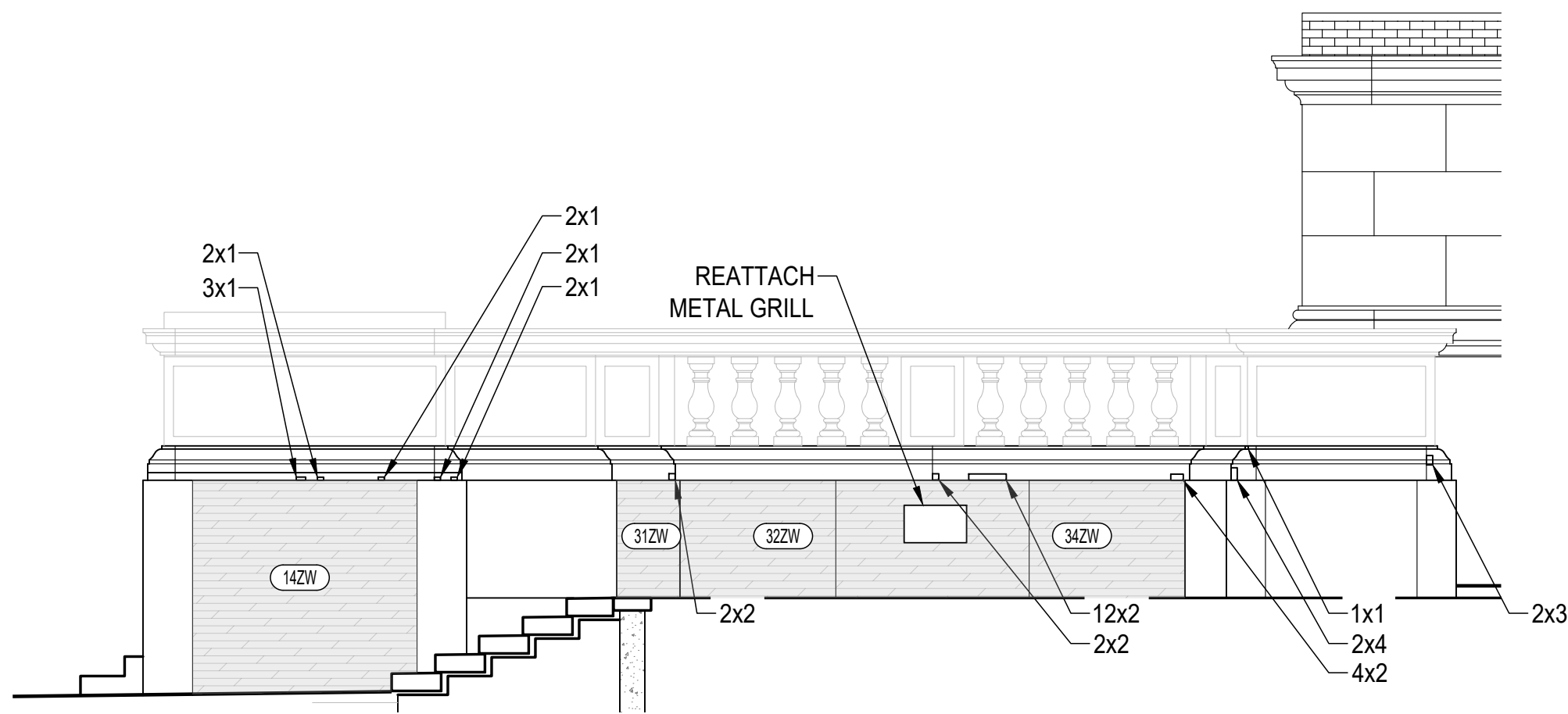
SHEET NUMBER
A2.02



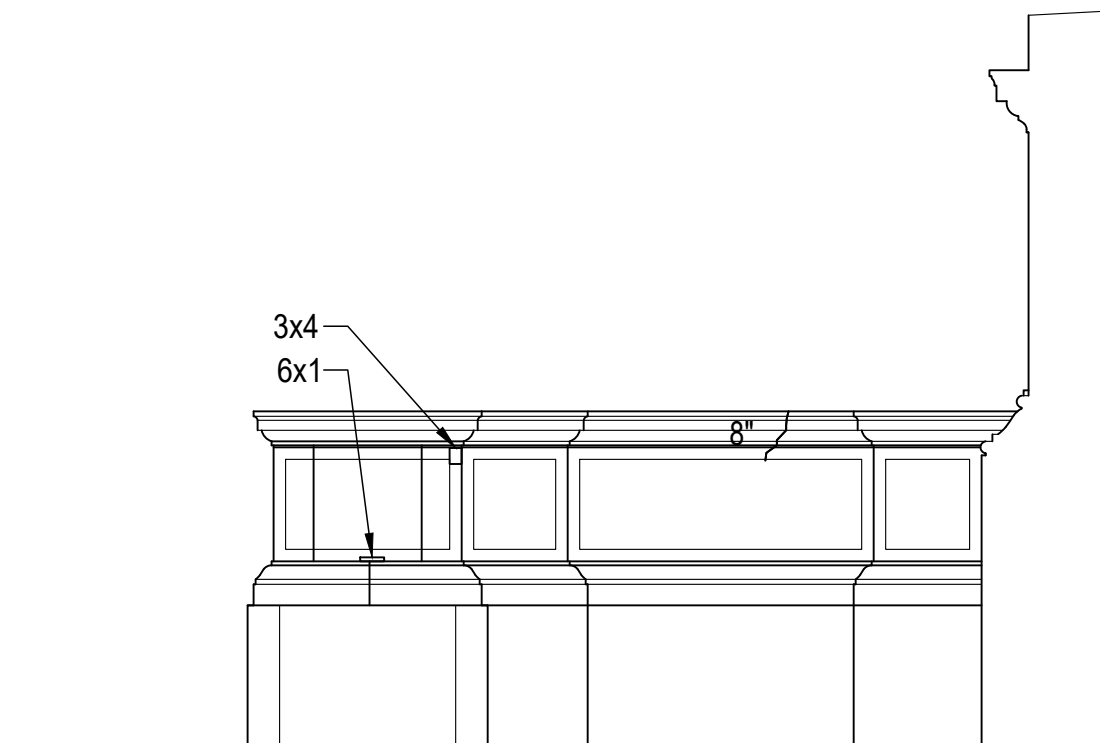
1
A2.03
PLATFORM SOUTH-EAST ELEVATION
SCALE: 1/4"=1'-0"



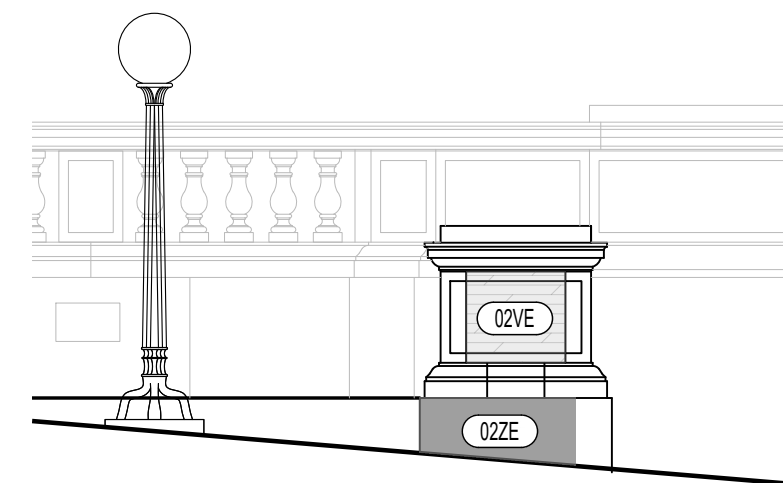
2
A2.03
PLATFORM EAST ELEVATION
SCALE: 1/4"=1'-0"



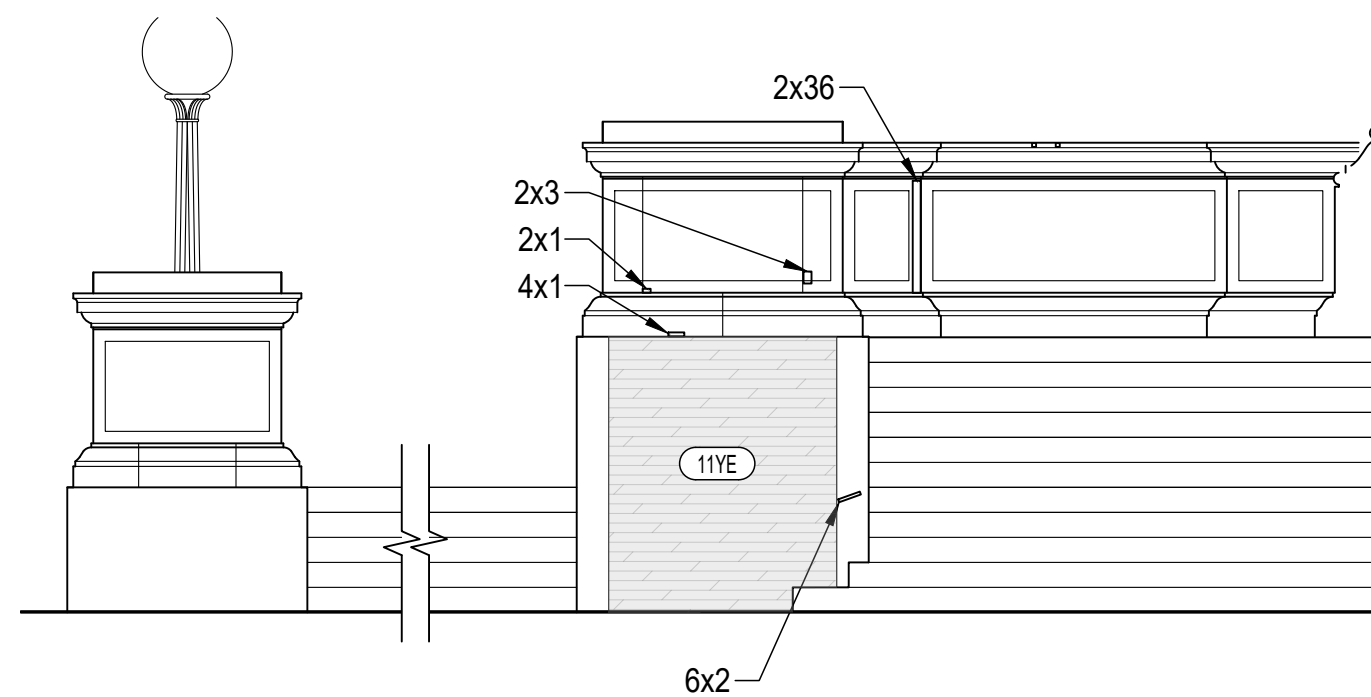
3
A2.03
PLATFORM WEST ELEVATION
SCALE: 1/4"=1'-0"



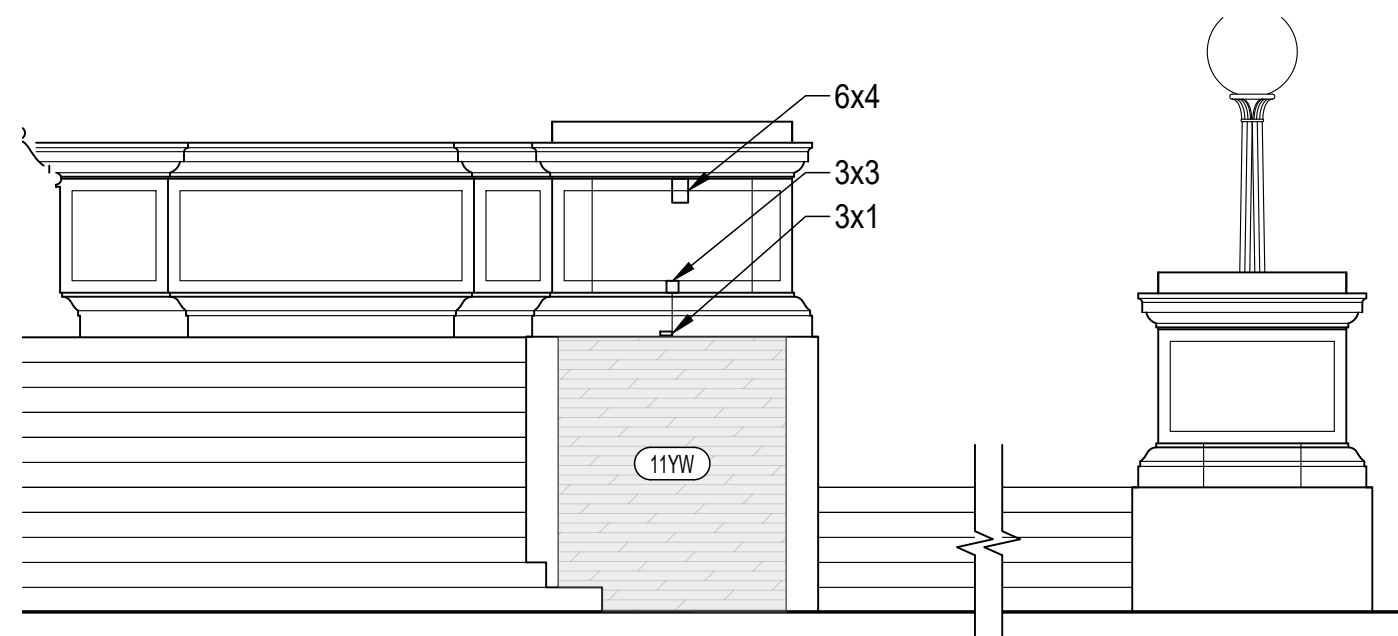
4
A2.03
PLATFORM SOUTH-WEST ELEVATION
SCALE: 1/4"=1'-0"



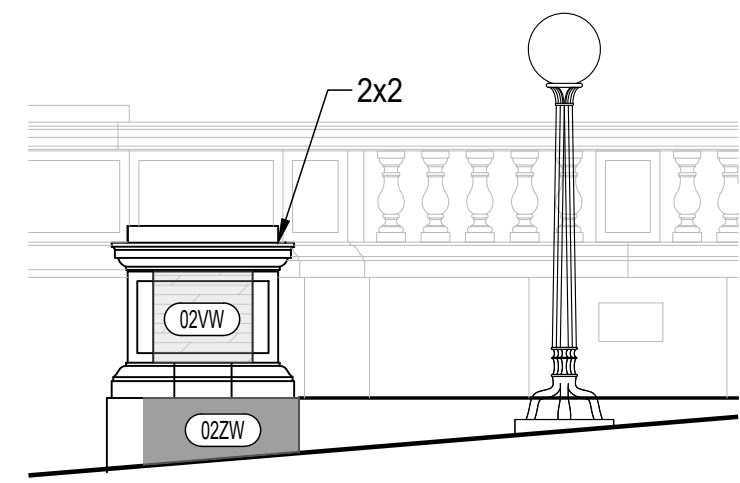
5
A2.03
EAST PILLAR
EAST ELEVATION
SCALE: 1/4"=1'-0"



6
A2.03
PLATFORM NORTH-EAST ELEVATION
SCALE: 1/4"=1'-0"



7
A2.03
PLATFORM NORTH-WEST ELEVATION
SCALE: 1/4"=1'-0"



8
A2.03
WEST PILLAR
WEST ELEVATION
SCALE: 1/4"=1'-0"

KEY LEGEND	
	FULLY REPOINT BRICK BACKUP WALL
	REINSTALL SALVAGED LIMESTONE CORNICES AND COPINGS
	REINSTALL SALVAGED LIMESTONE WALL PANELS
	REINSTALL SALVAGED GRANITE WALL PANELS
	LIMESTONE PATCH REPAIR AND REPAIR SIZE (INCHES)
	LIMESTONE CRACK REPAIR AND REPAIR LENGTH (INCHES)



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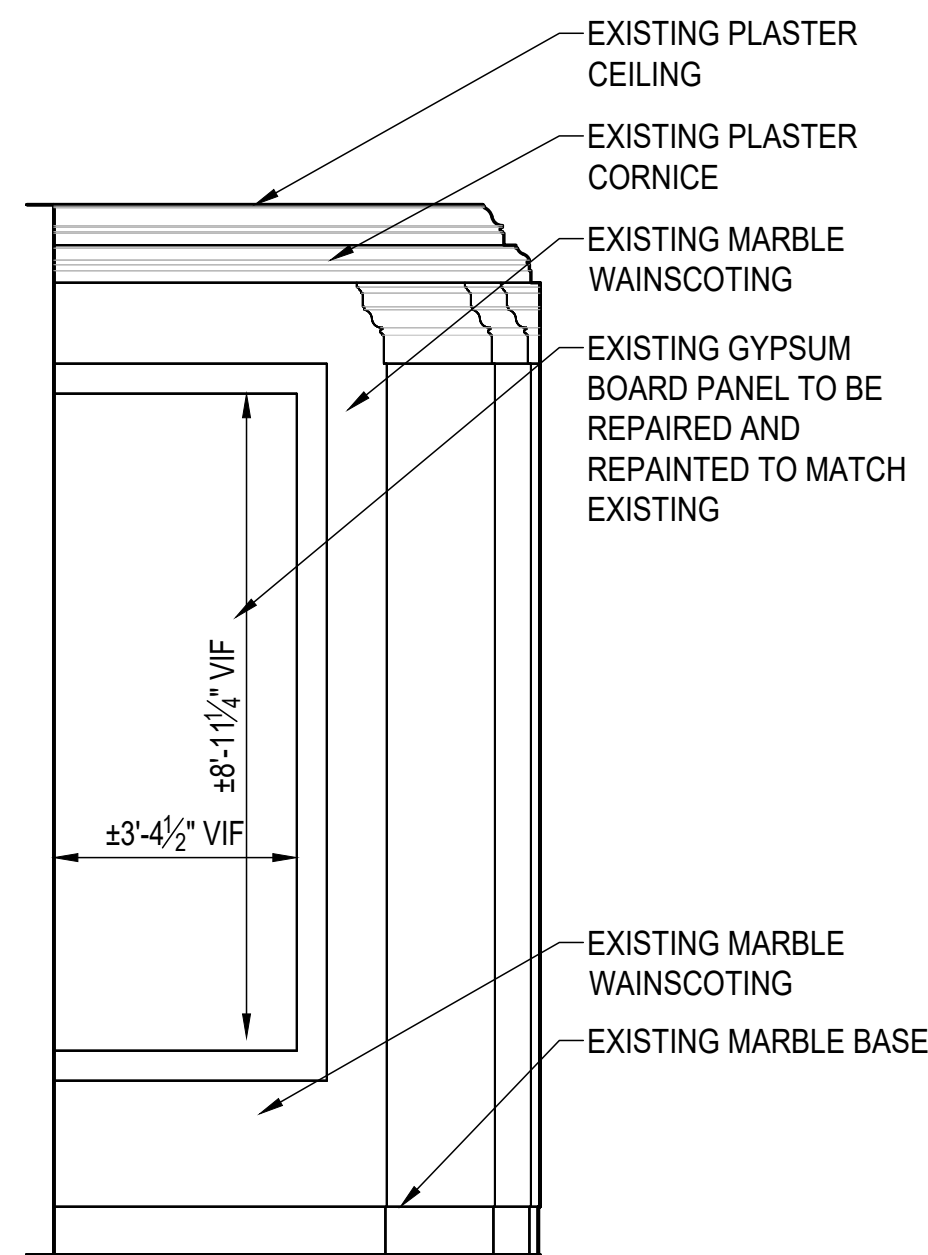
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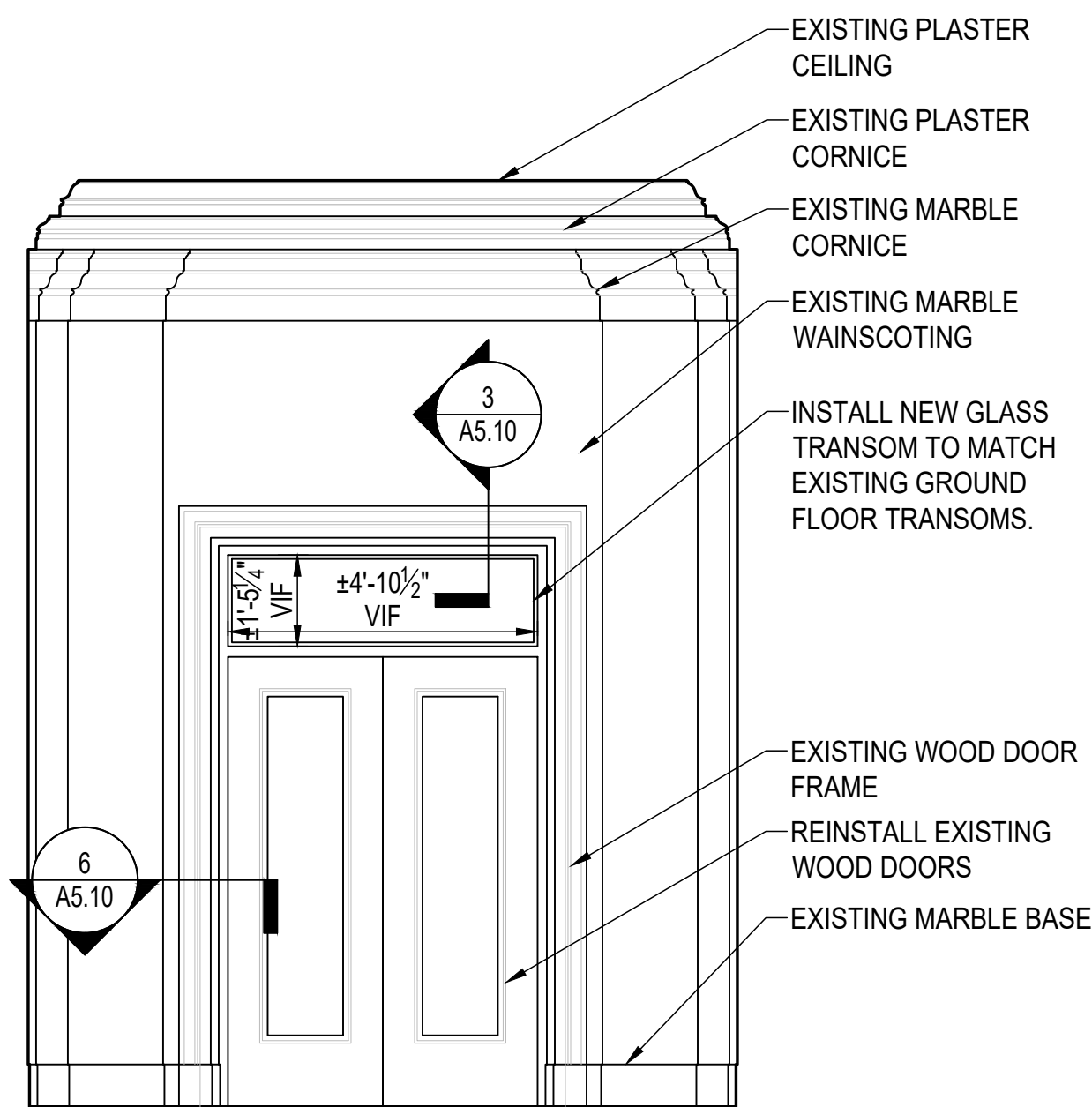
SUBMISSION DATE	12/22/22
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DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME
PLATFORM
ELEVATIONS

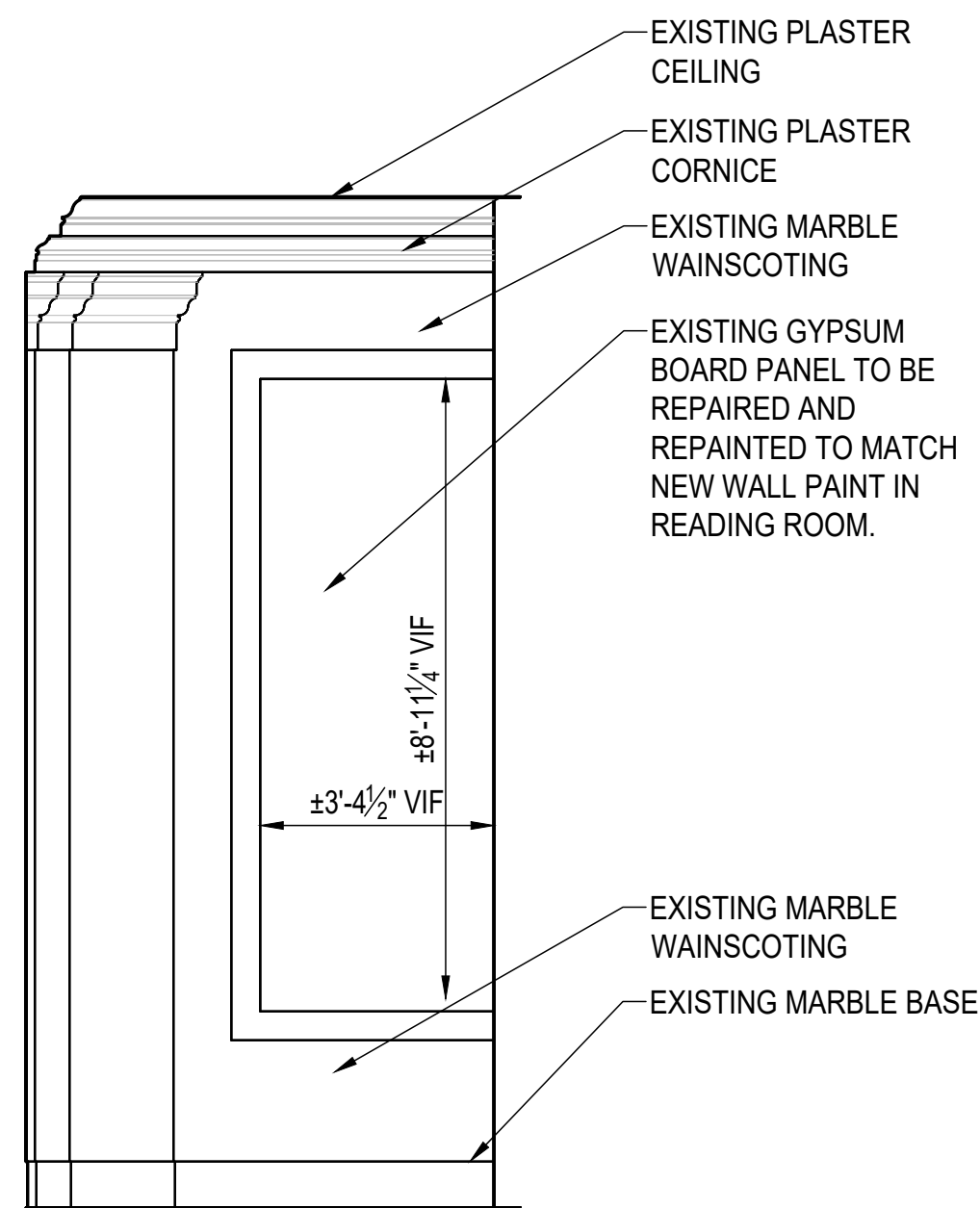
SHEET NUMBER
A2.03



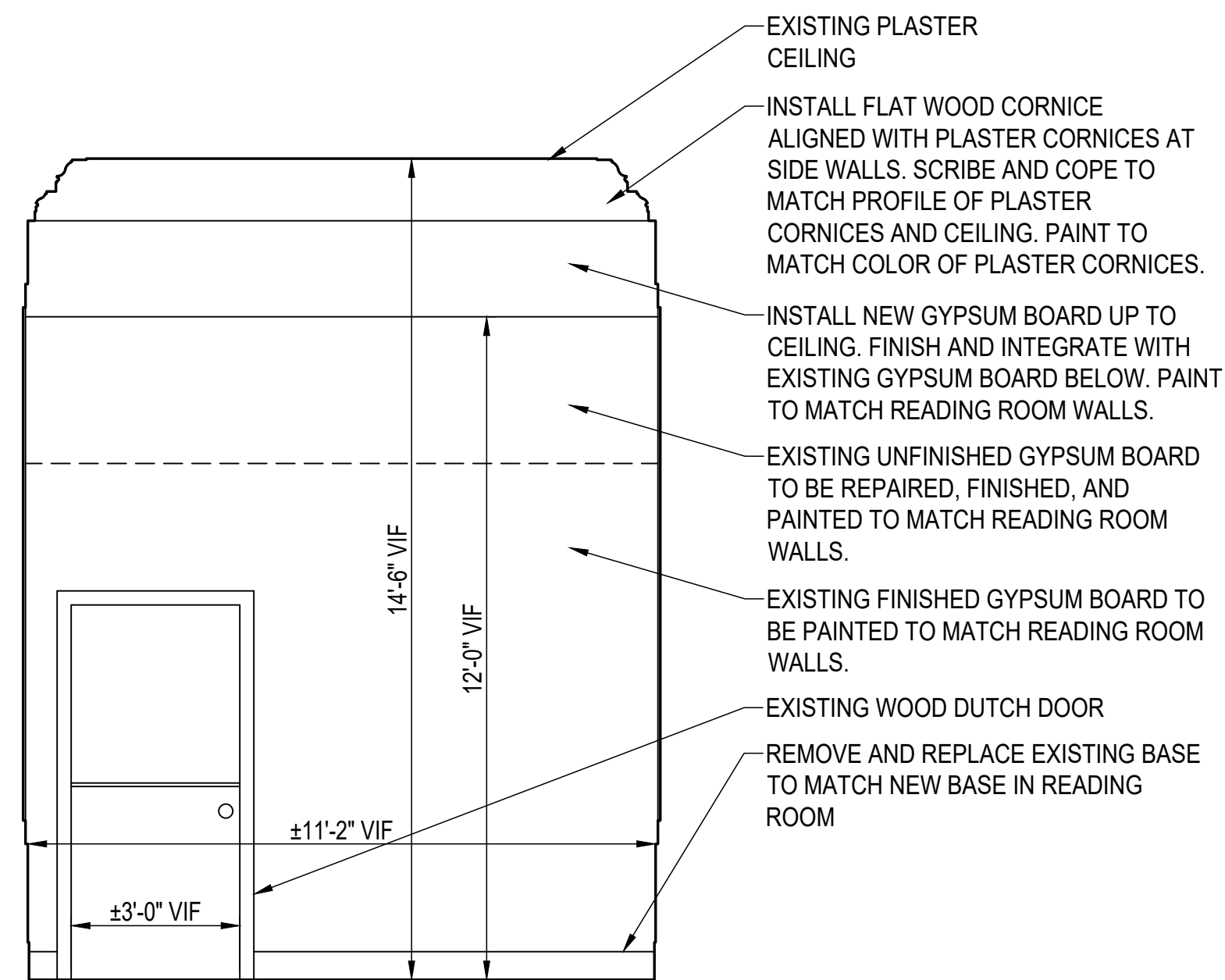
WEST



NORTH



EAST

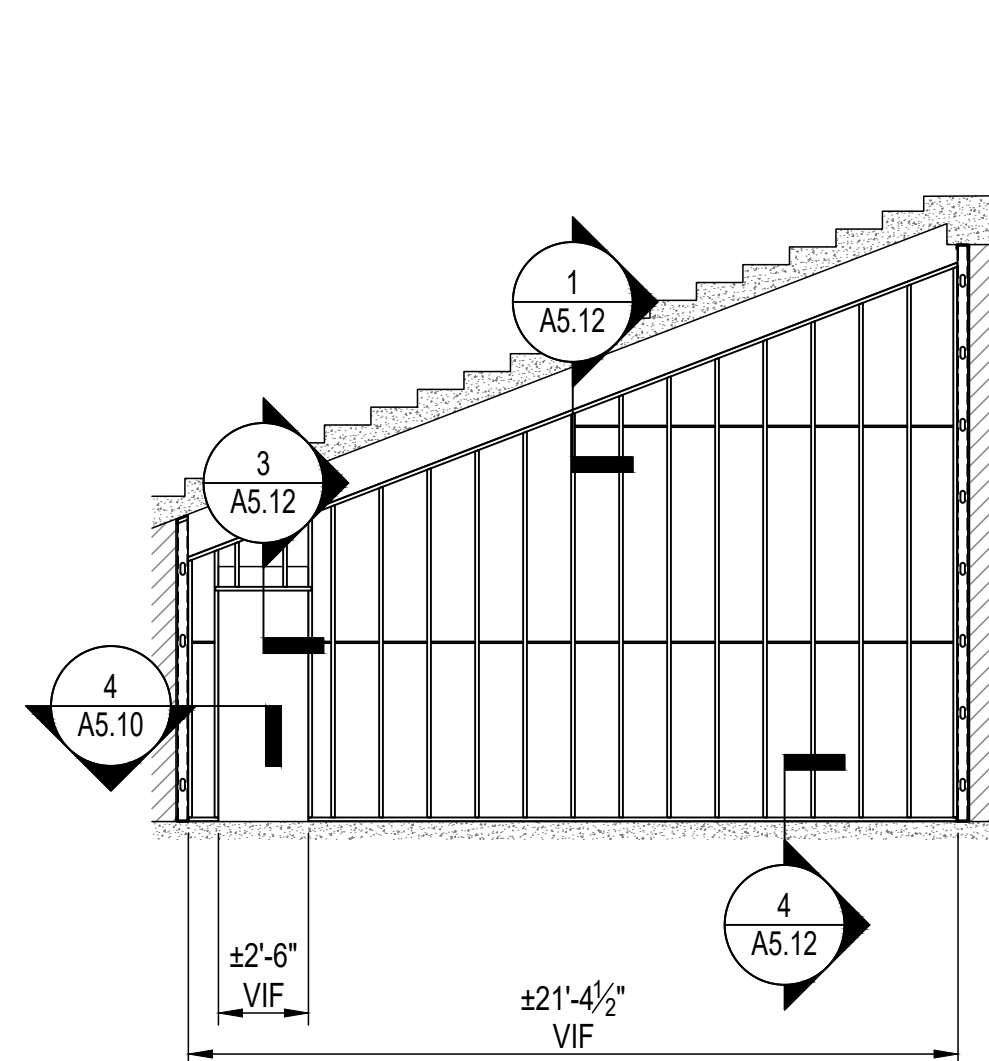


SOUTH

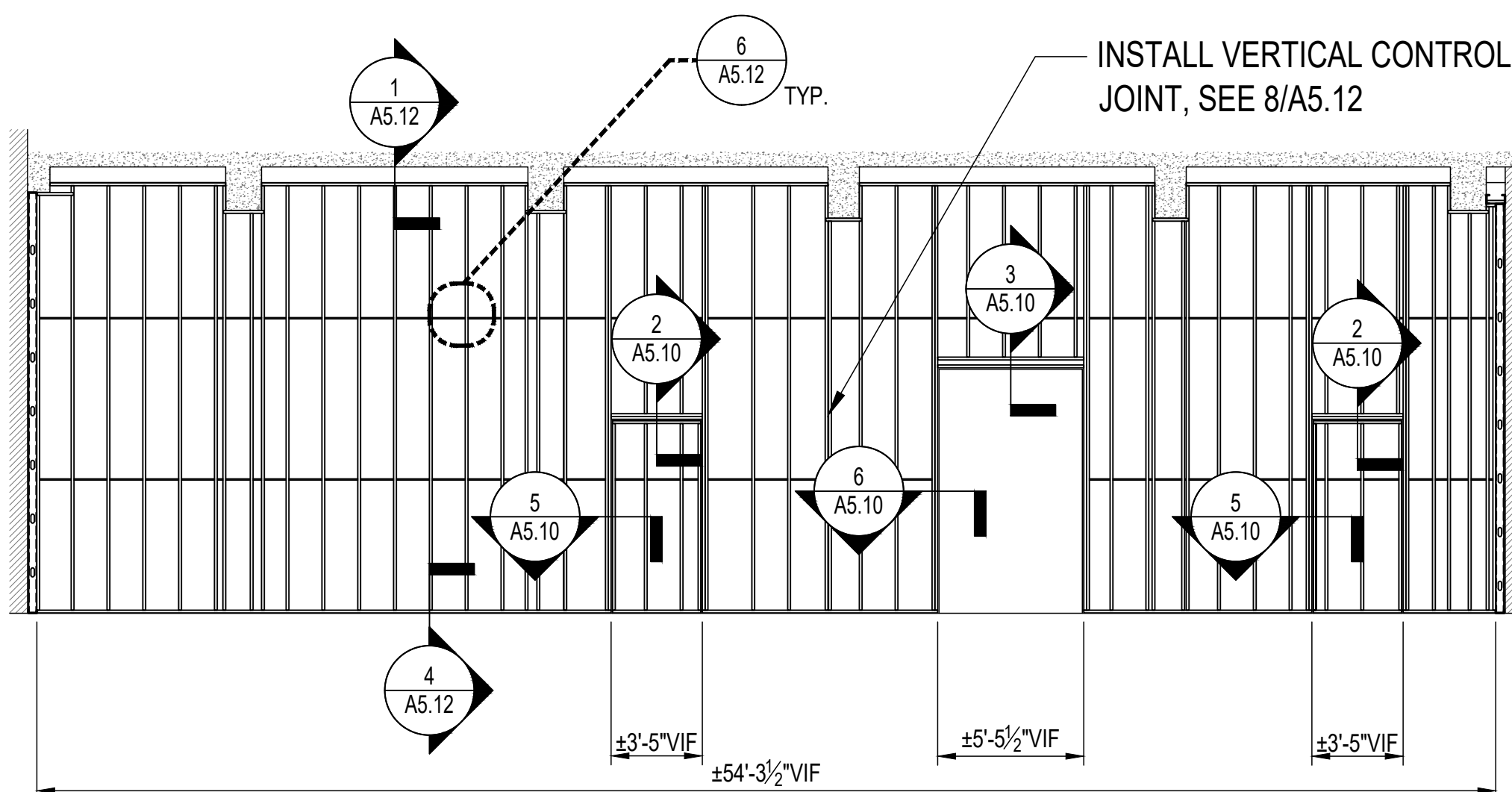
NOTE:

1. SEE SHEET A5.06 FOR INTERIOR FINISH SCHEDULE.

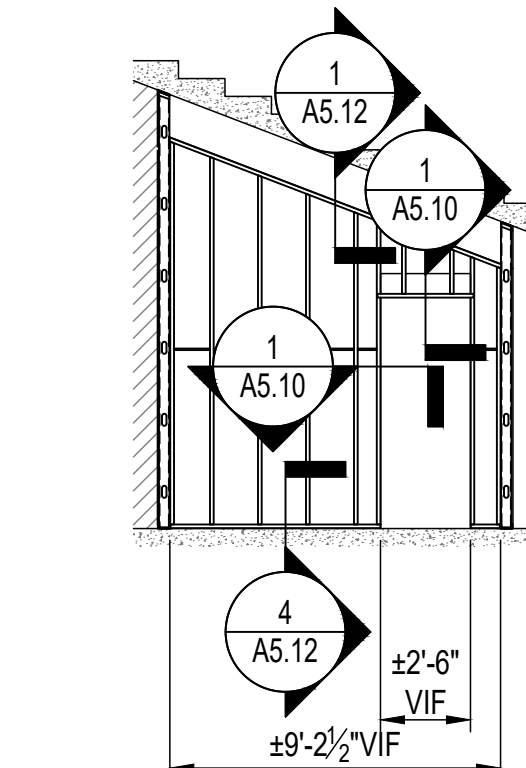
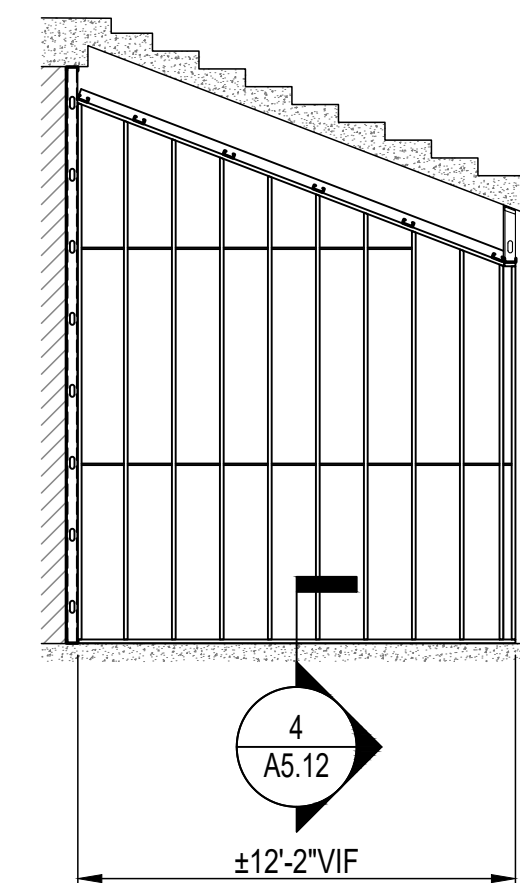
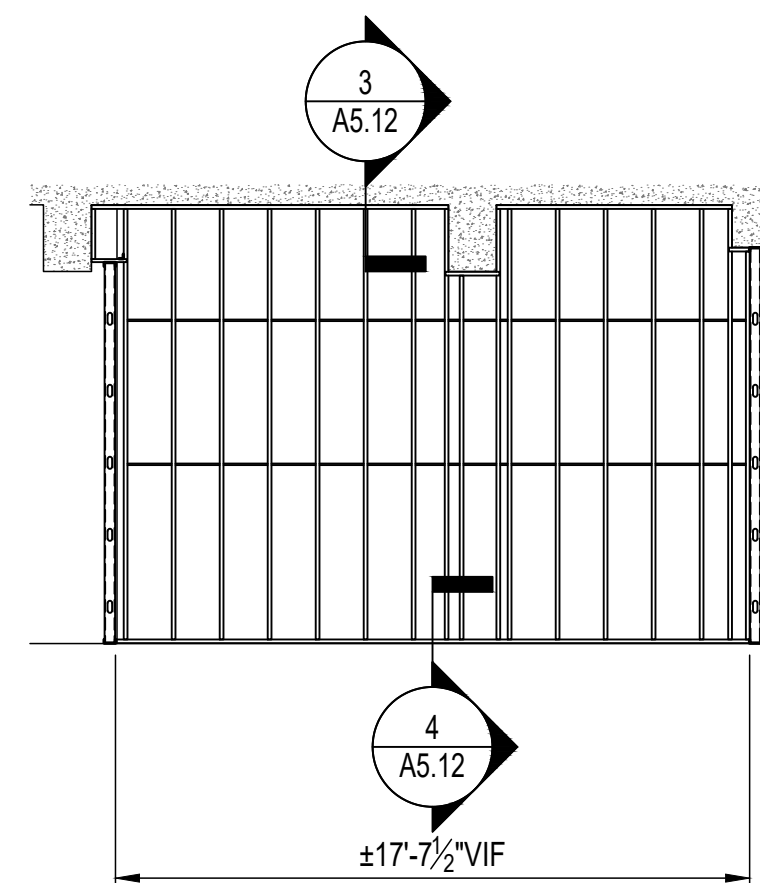
1
A2.04
ANTEROOM INTERIOR ELEVATIONS
SCALE: 3/8"=1'-0"



WEST



NORTH

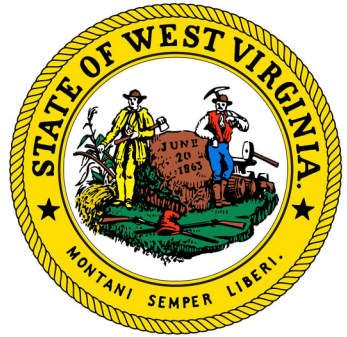


EAST

NOTES:

1. INTERIOR GYPSUM BOARD AND PAINT NOT SHOWN FOR CLARITY.
2. SEE SHEET A5.06 FOR INTERIOR FINISH SCHEDULE.

2
A2.04
READING ROOM
INTERIOR FRAMING ELEVATIONS
SCALE: 3/16"=1'-0"



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SHEET NAME

INTERIOR
ELEVATIONS

SHEET NUMBER

A2.04



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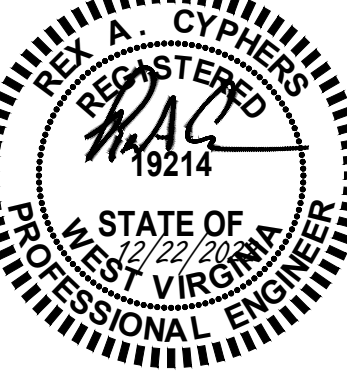
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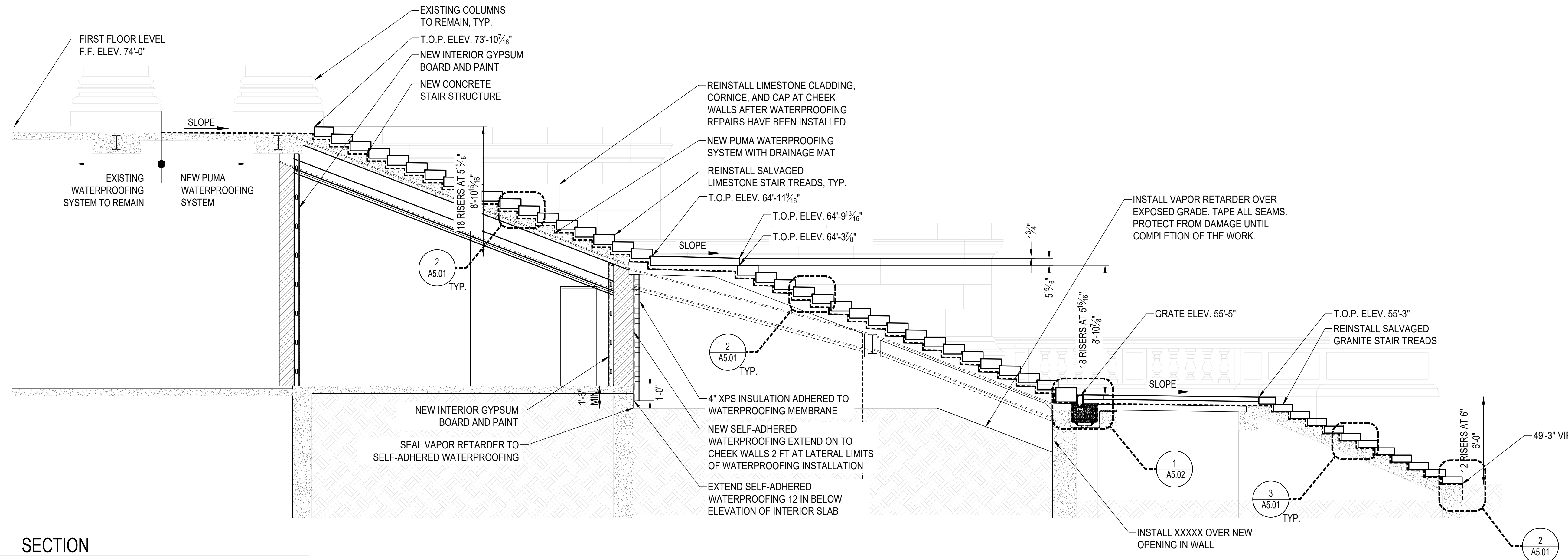
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SHEET NAME

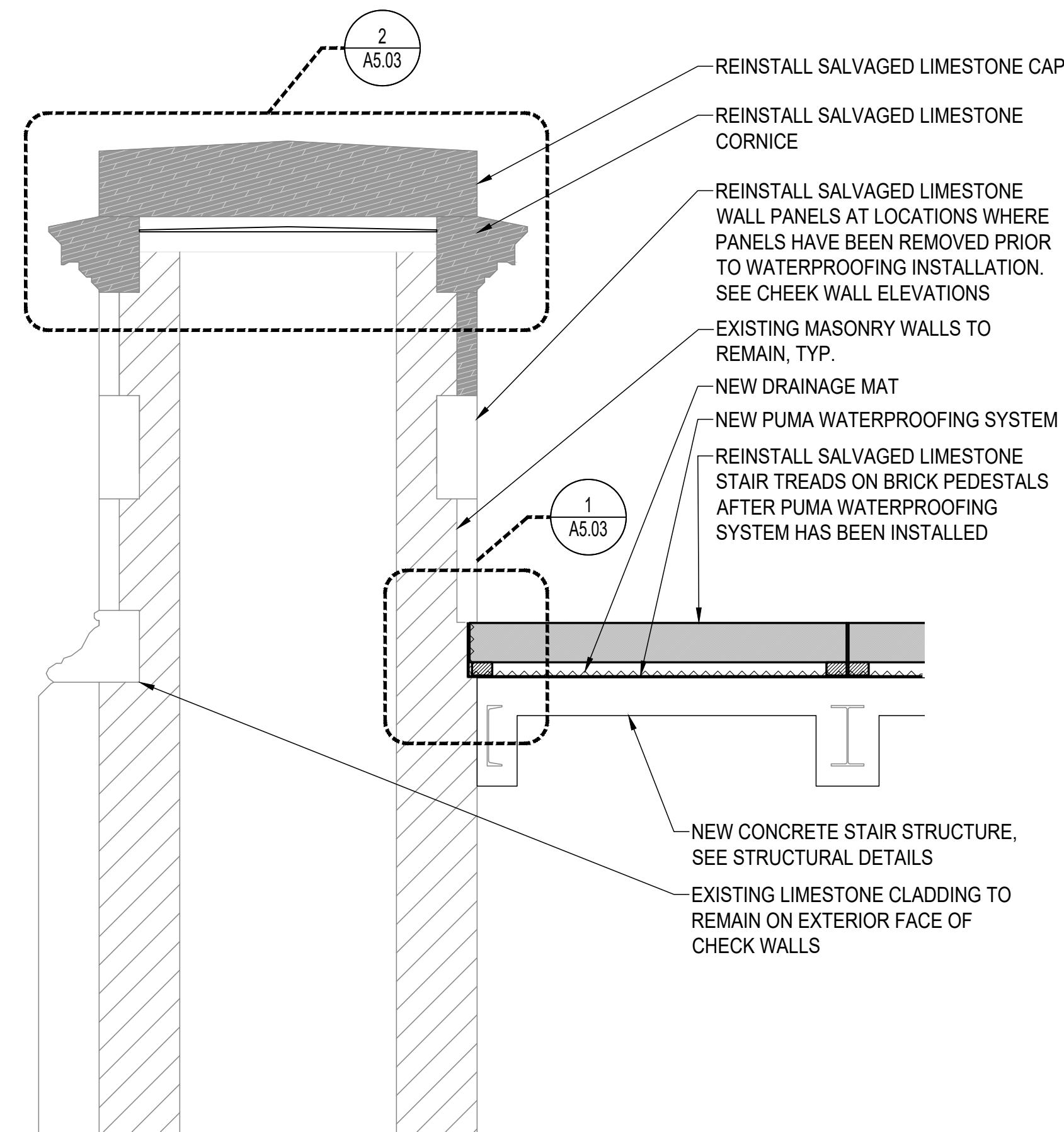
SECTIONS

SHEET NUMBER

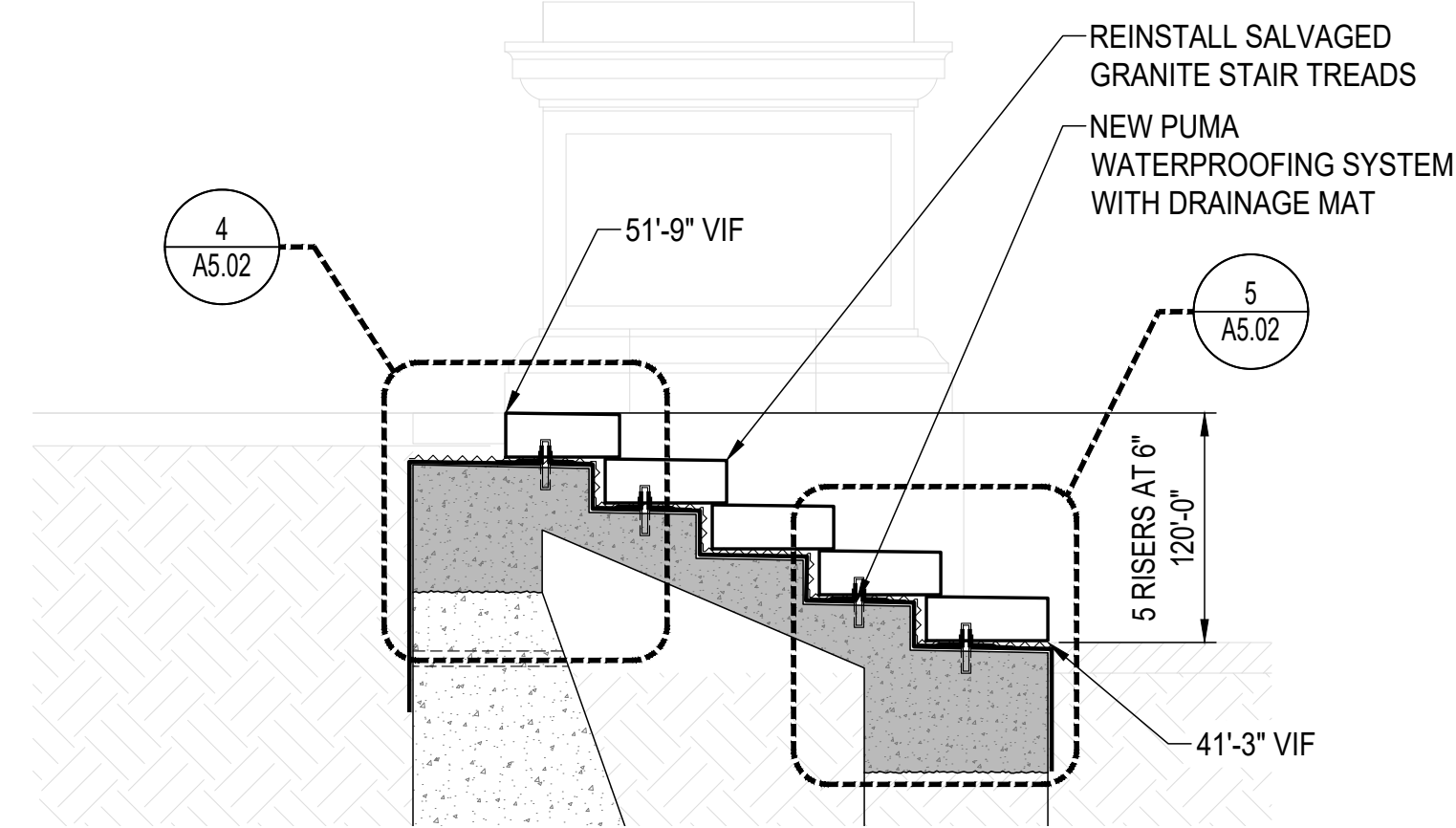
A3.01



1
A3.01 SECTION

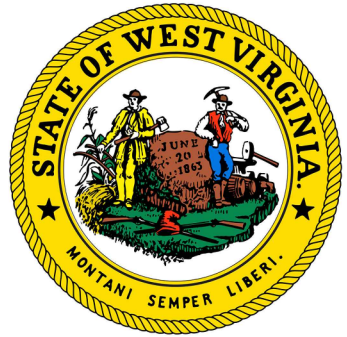


2
A3.01 SECTION
SCALE: 1/2"=1'-0"



3
A3.01 SECTION
SCALE: 1/2"=1'-0"

SHEET NOTE:
ELEVATIONS SHOWN ASSUME A BENCHMARK
ELEVATION OF 74'-0" AT THE FIRST FLOOR.
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING
ALL ELEVATIONS AND SHALL NOTIFY THE ENGINEER
ABOUT ANY DISCREPANCIES BETWEEN ELEVATIONS
SHOWN IN THE DRAWINGS AND ACTUAL ELEVATIONS IN
THE FIELD.



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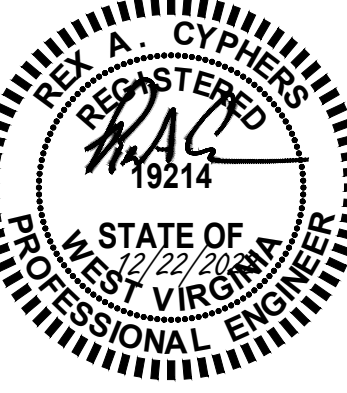
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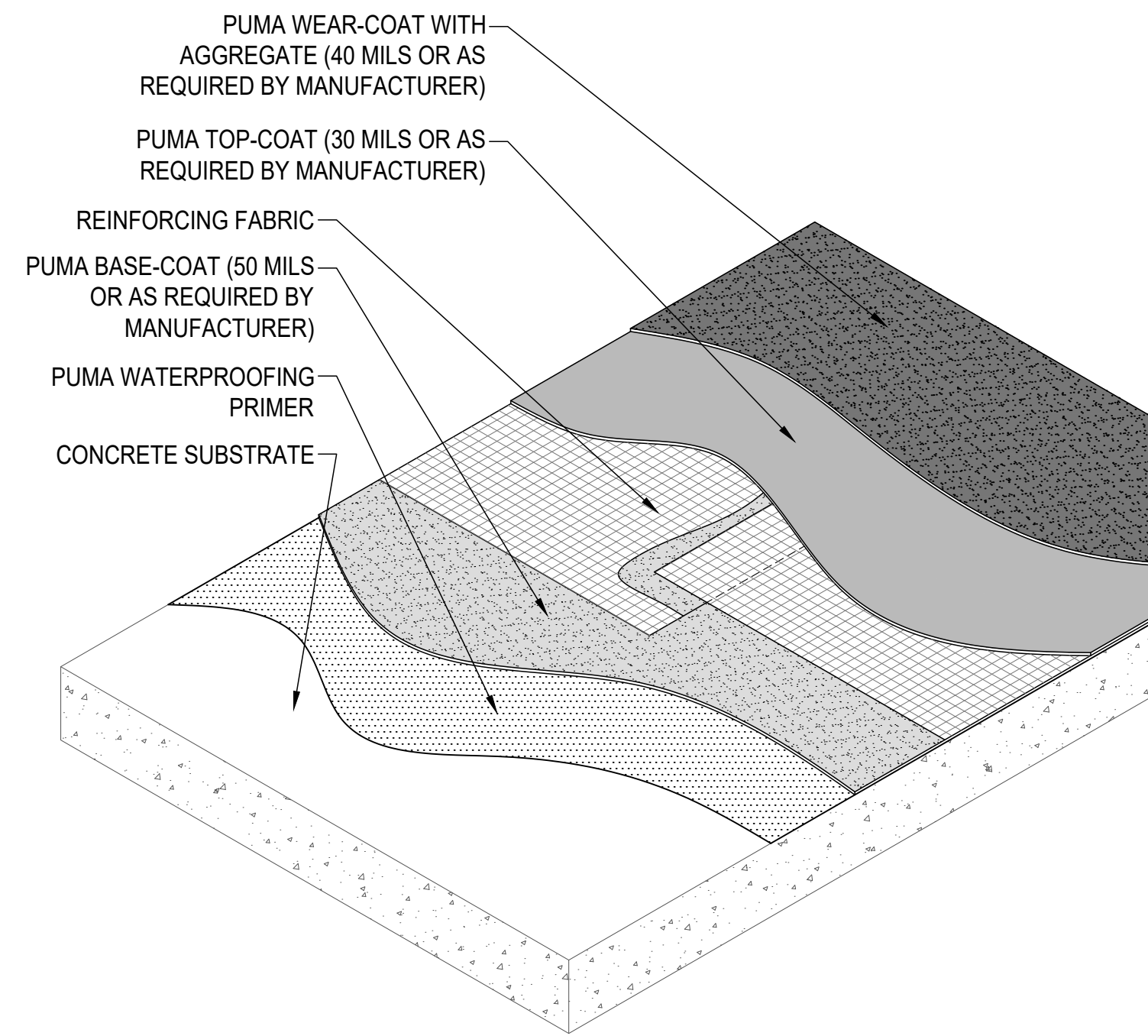
CHECK RAC

SHEET NAME

REPAIR
DETAILS

SHEET NUMBER

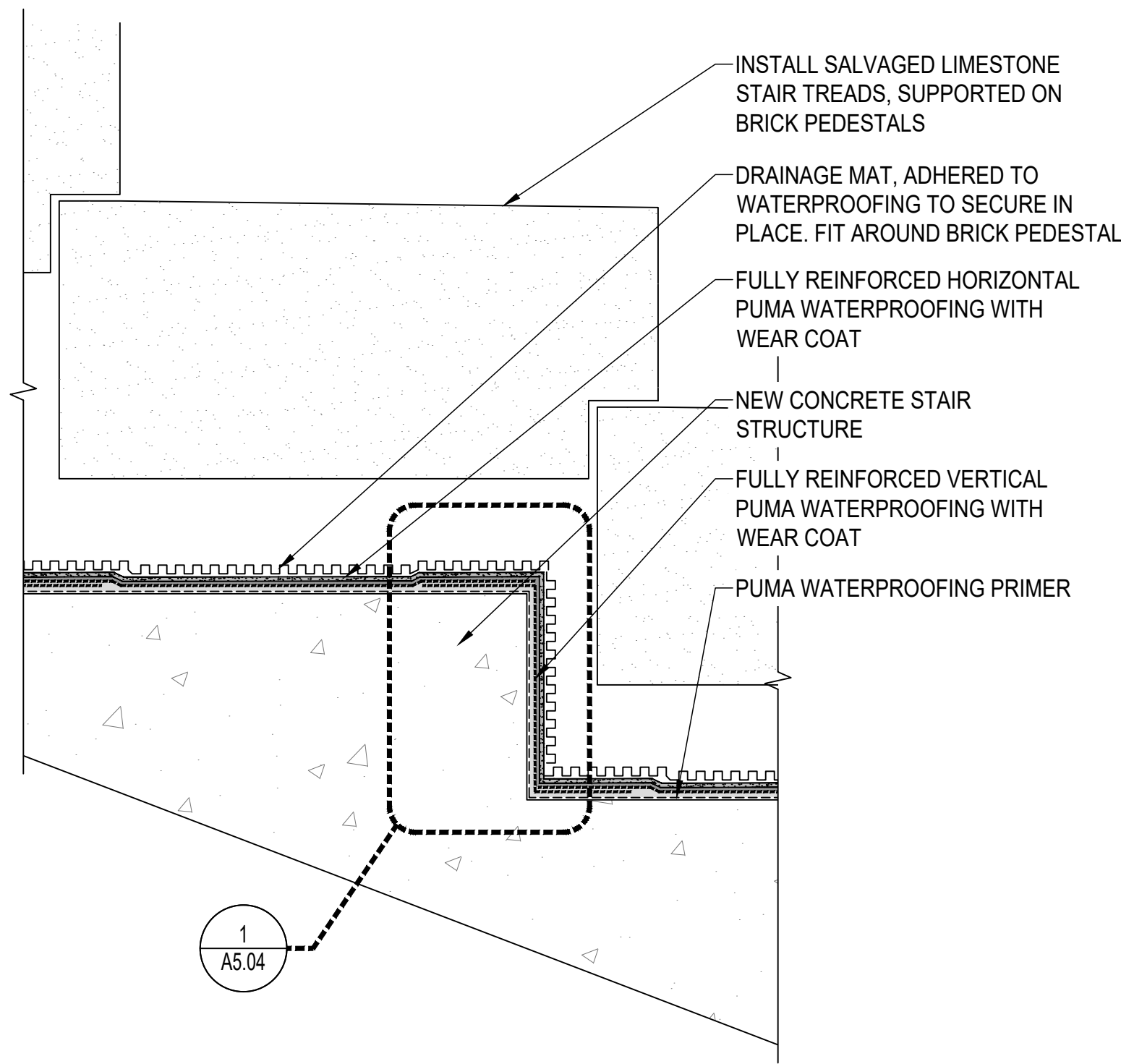
A5.01



1
A5.01

TYPICAL WATERPROOFING DETAIL

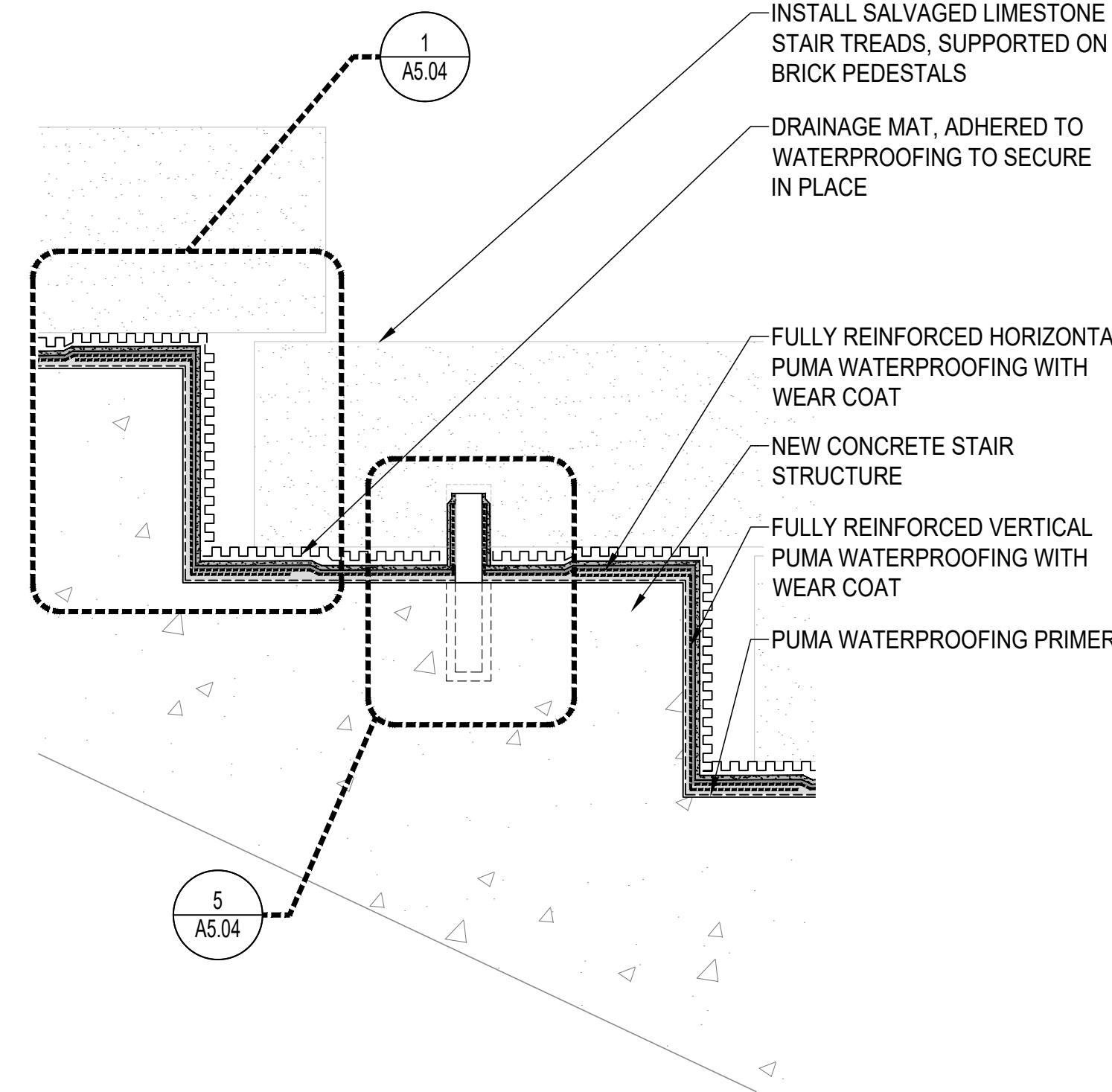
SCALE: 3"=1'-0"



2
A5.01

TYPICAL LIMESTONE STAIR DETAIL

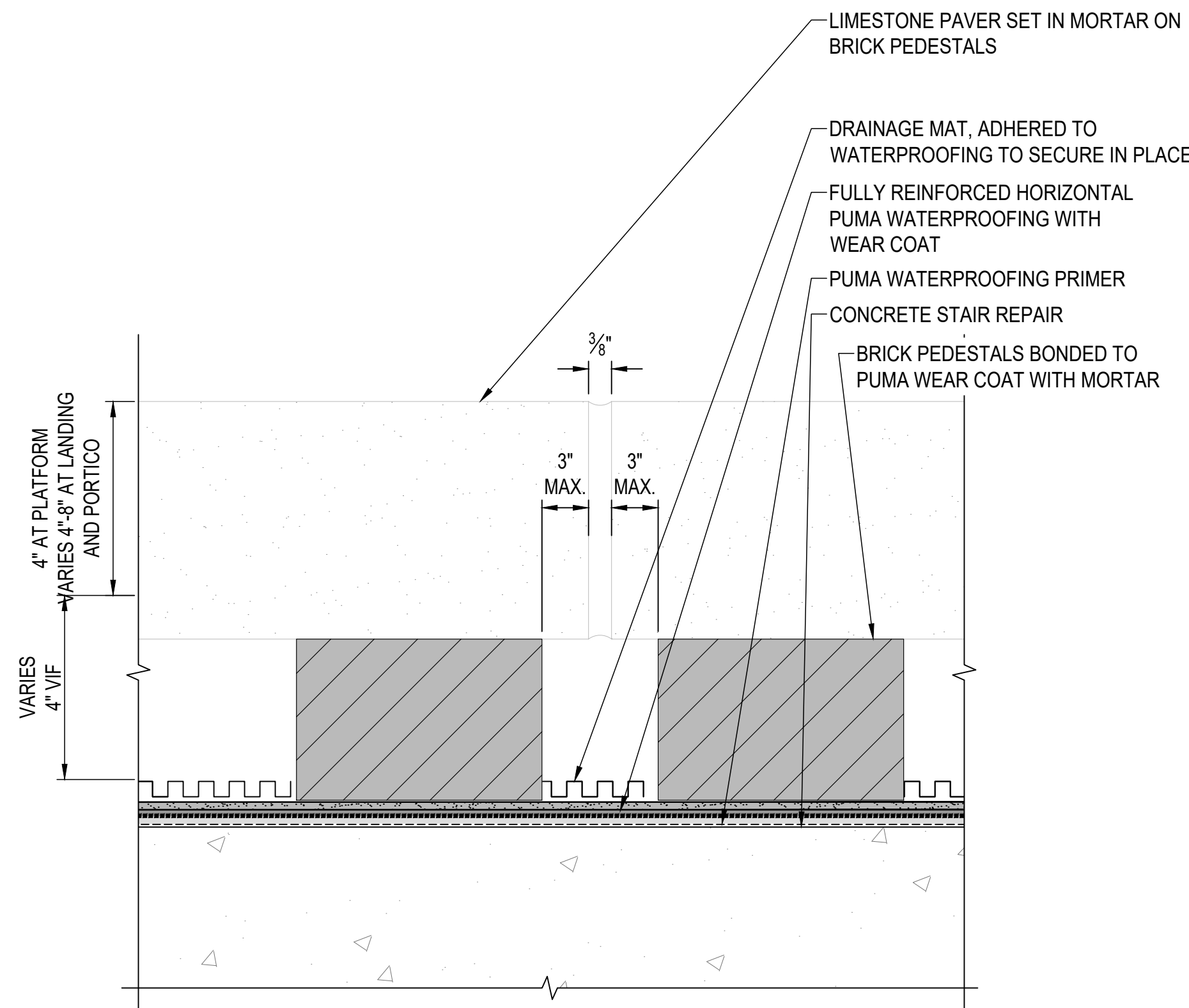
SCALE: 3"=1'-0"



3
A5.01

TYPICAL GRANITE STAIR DETAIL

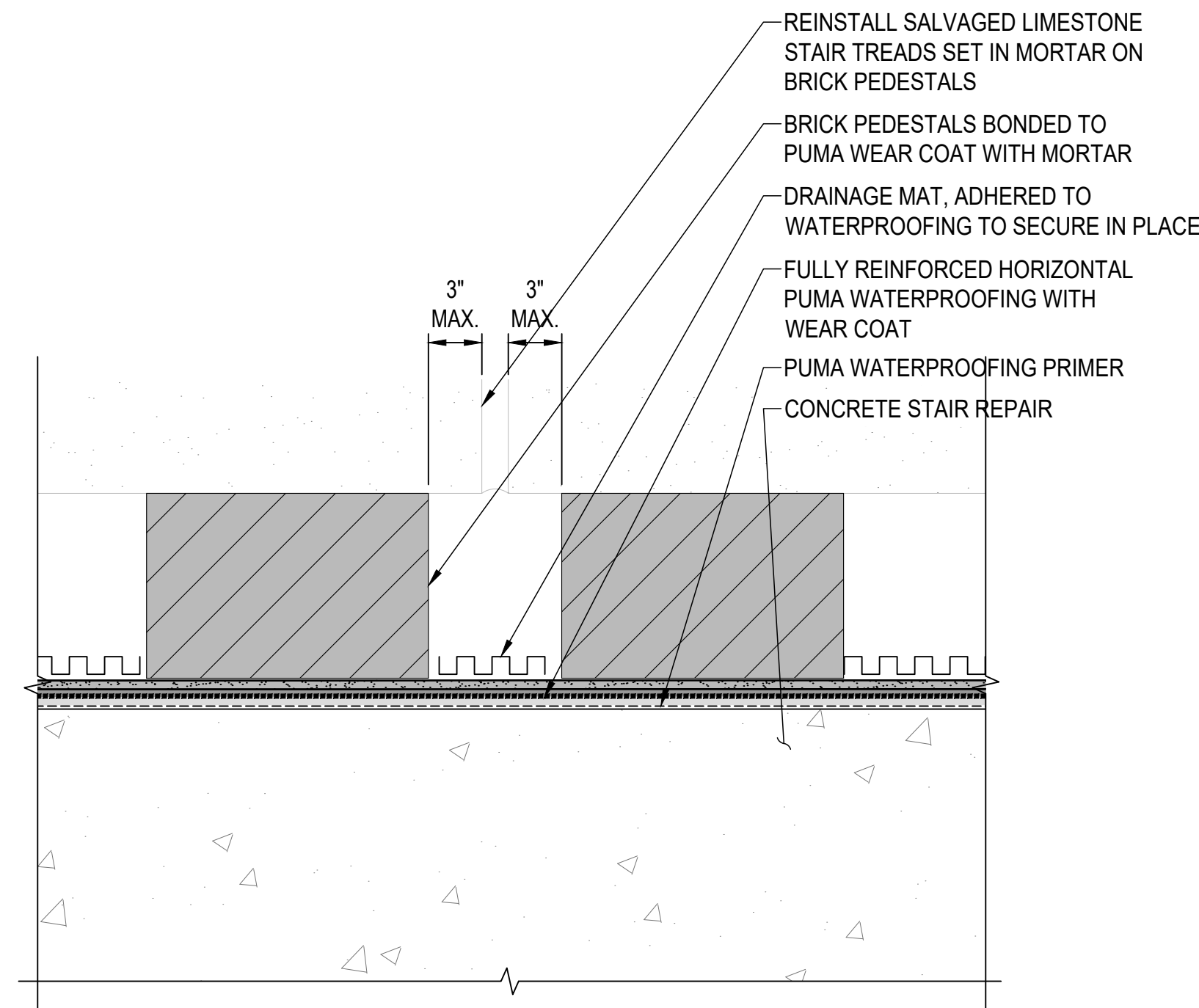
SCALE: 3"=1'-0"



4
A5.01

TYPICAL LIMESTONE PAVER DETAIL

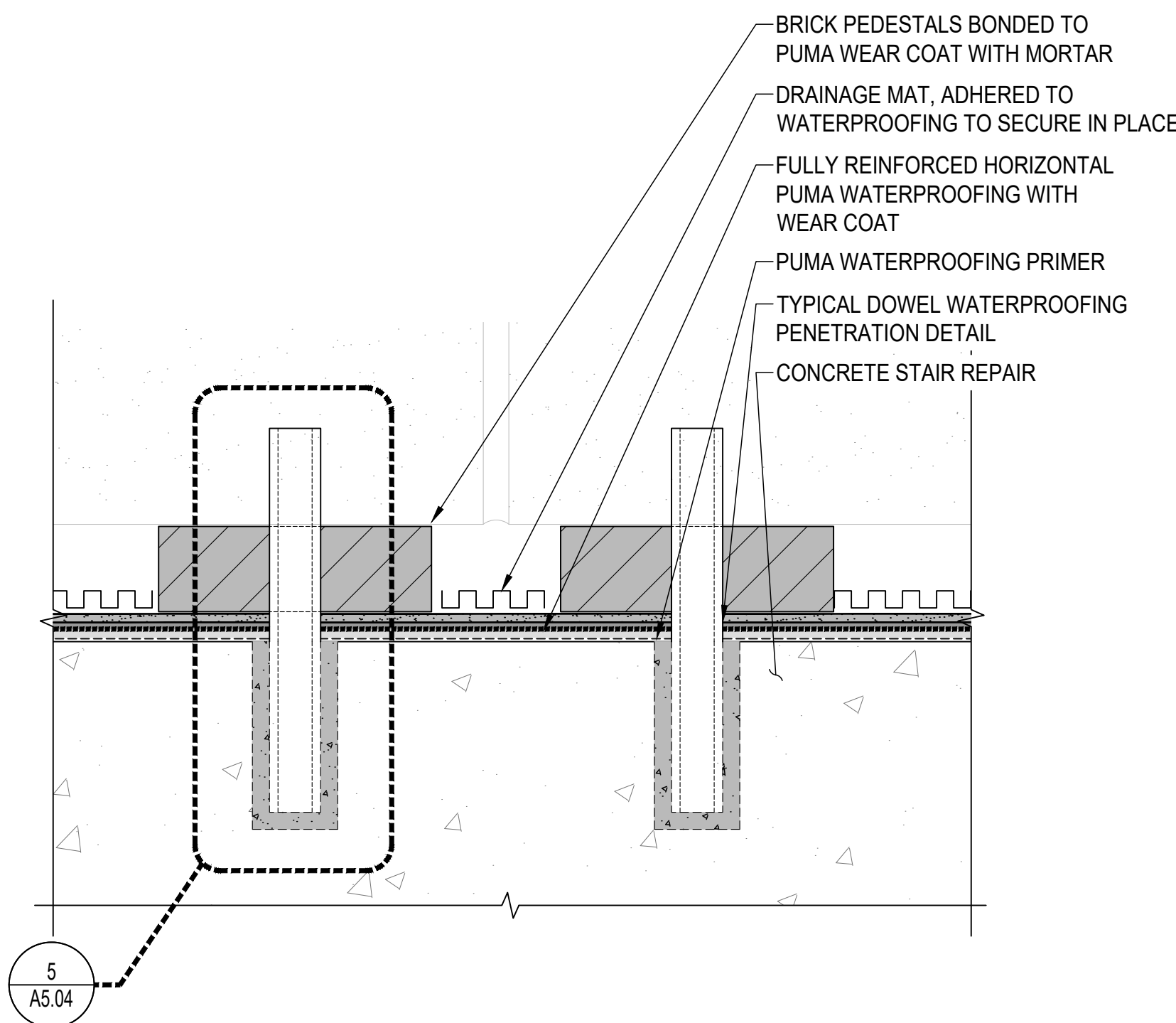
SCALE: 1/2"=1'-0"



5
A5.01

TYPICAL LIMESTONE
TREAD SUPPORT DETAIL

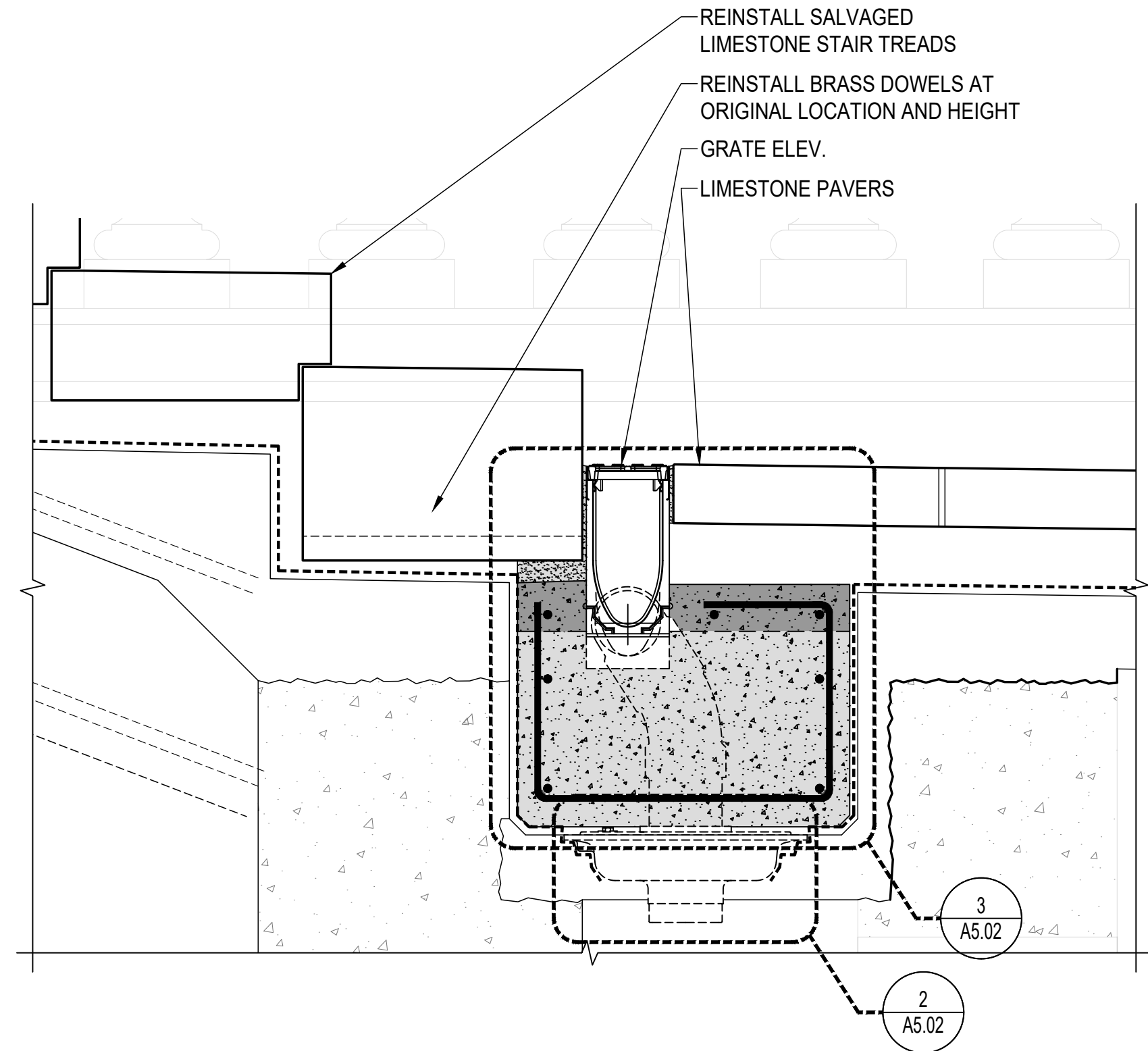
SCALE: 1/2"=1'-0"



6
A5.01

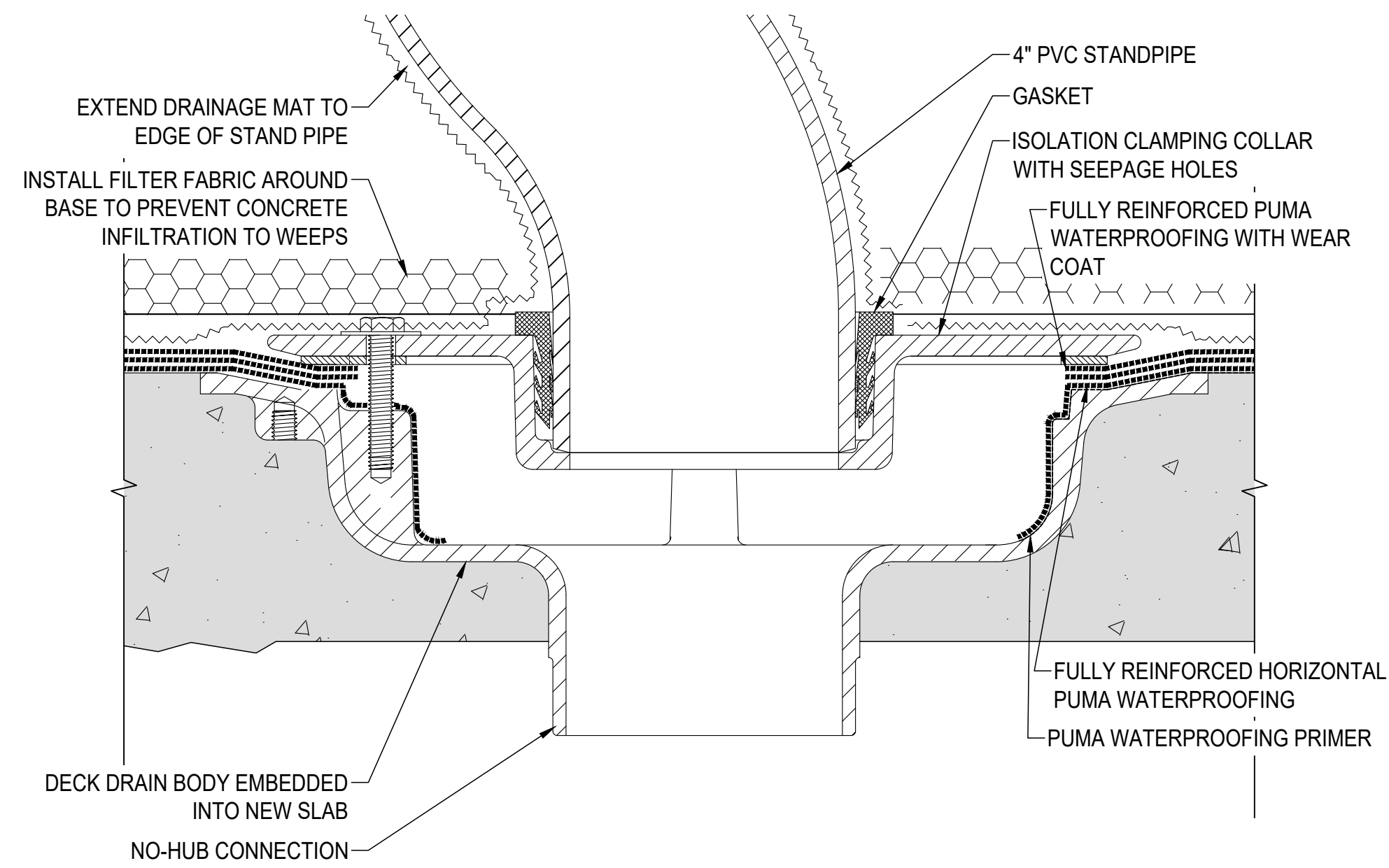
TYPICAL GRANITE
TREAD SUPPORT DETAIL

SCALE: 1/2"=1'-0"



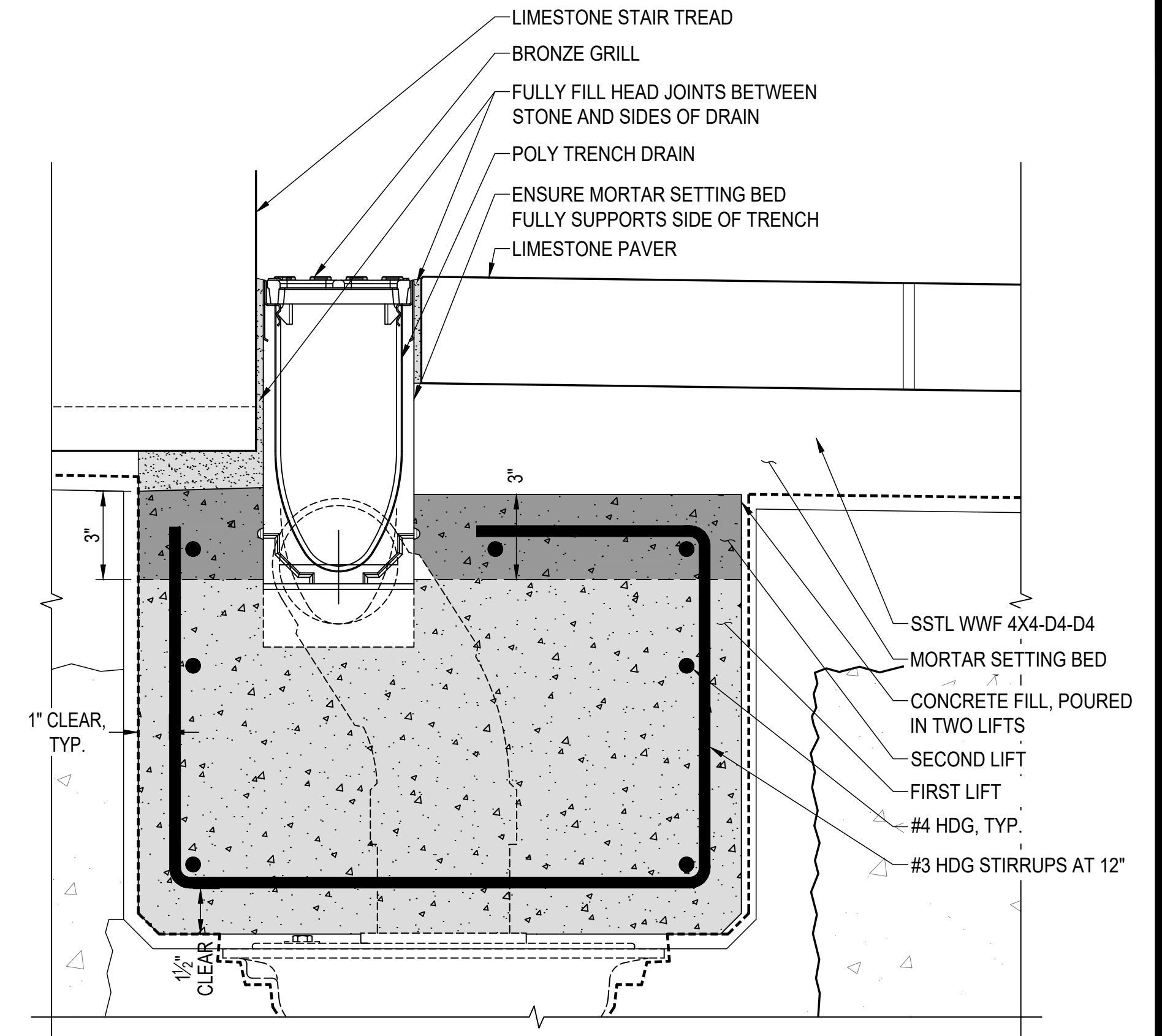
1
A5.02
PLATFORM SECTION
DETAIL AT BASE OF MIDDLE FLIGHT

SCALE: 1½"=1'-0"



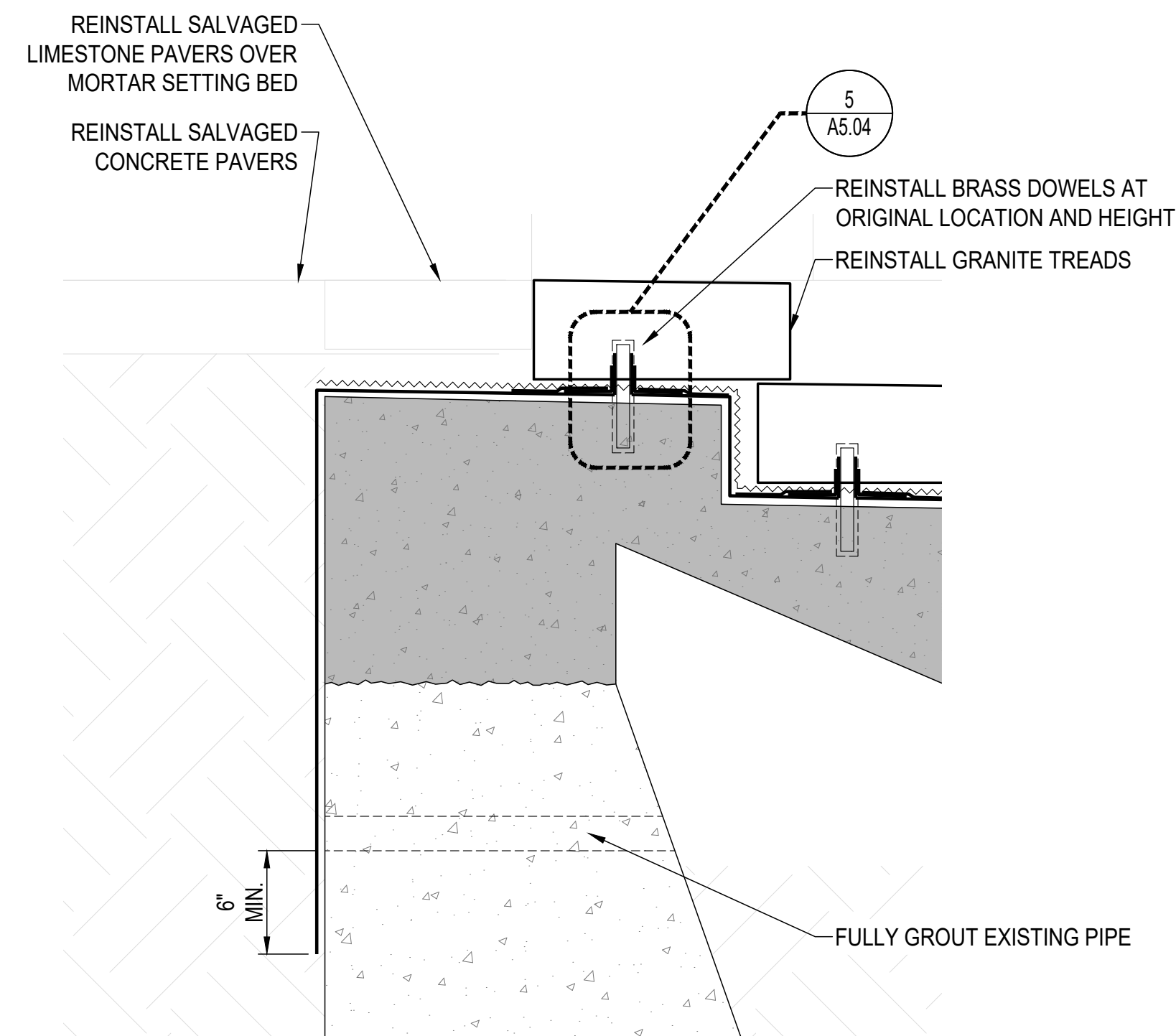
2
A5.02
DECK DRAIN INTEGRATION DETAIL

SCALE: 6"=1'-0"



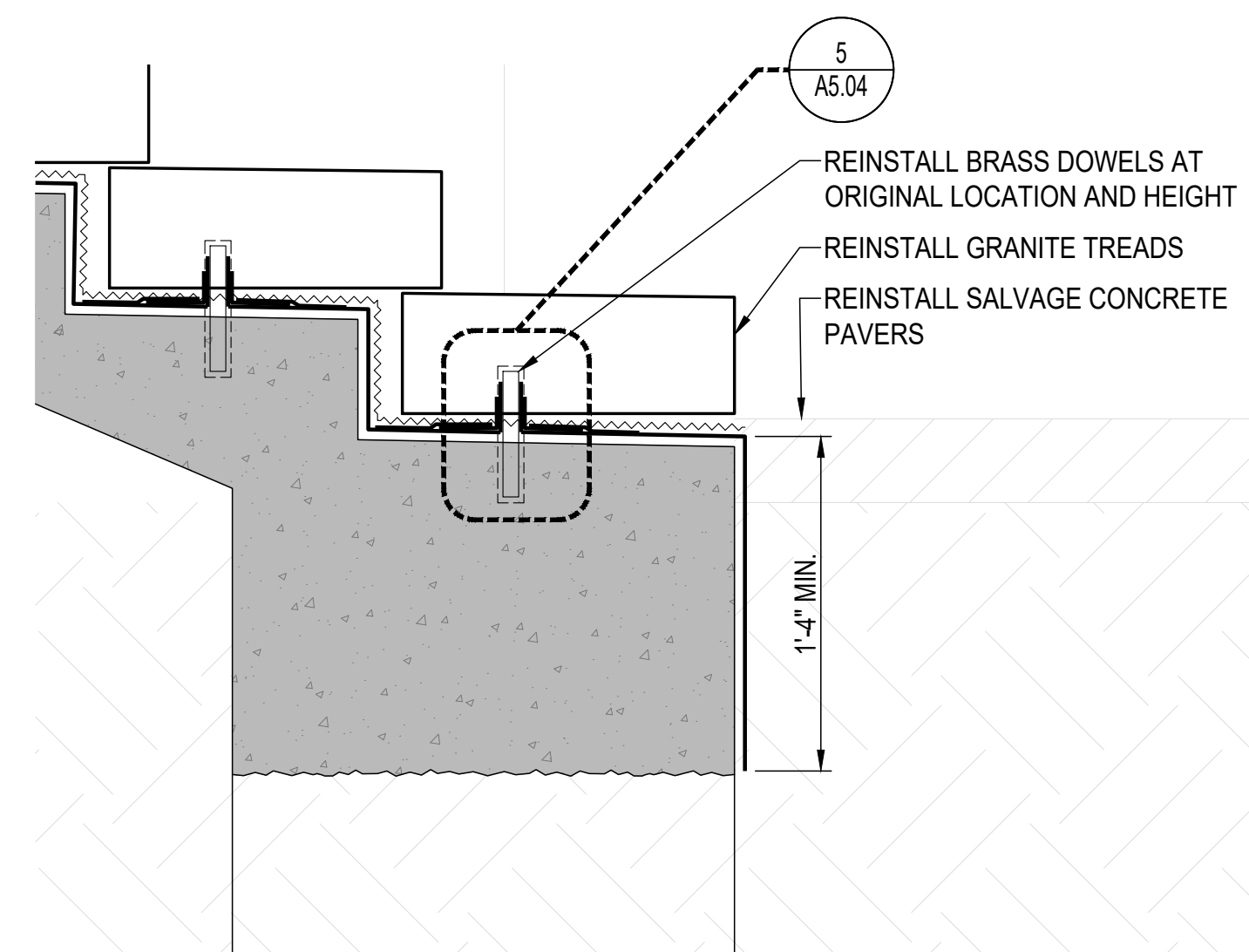
3
A5.02
TRENCH DRAIN DETAIL

SCALE: 3"=1'-0"



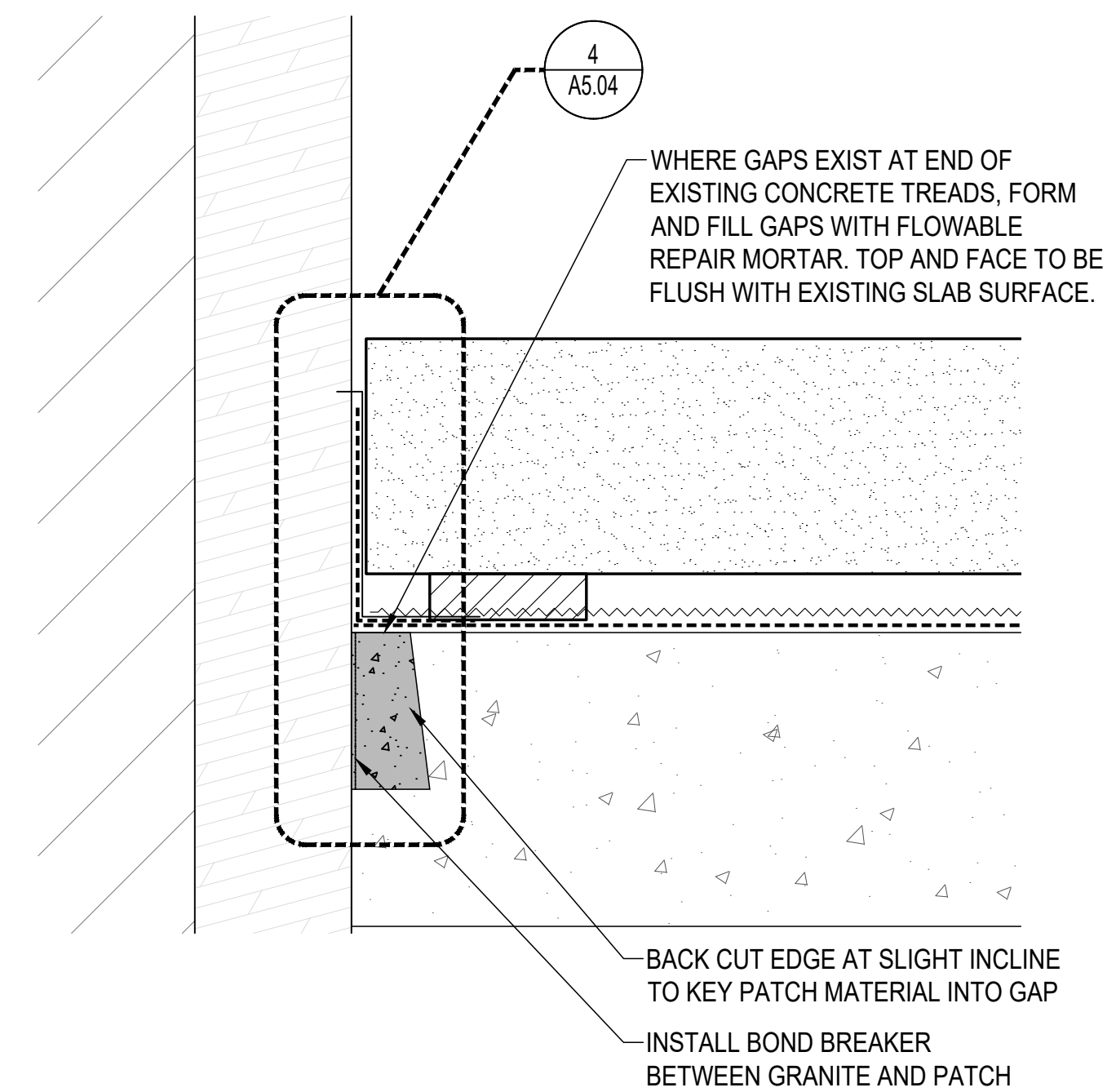
4
A5.02
SIDE STAIR UPPER SECTION DETAIL

SCALE: 1½"=1'-0"



5
A5.02
SIDE STAIR AND
LOWER STAIR SECTION DETAIL

SCALE: 1½"=1'-0"

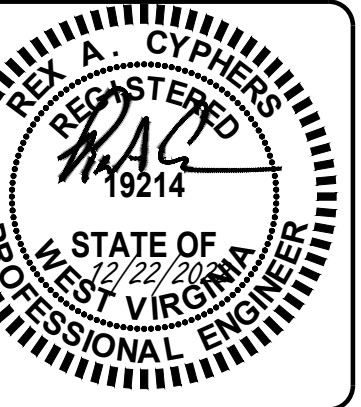


6
A5.02
GRANITE
STAIR EDGE SECTION DETAIL

SCALE: 3"=1'-0"



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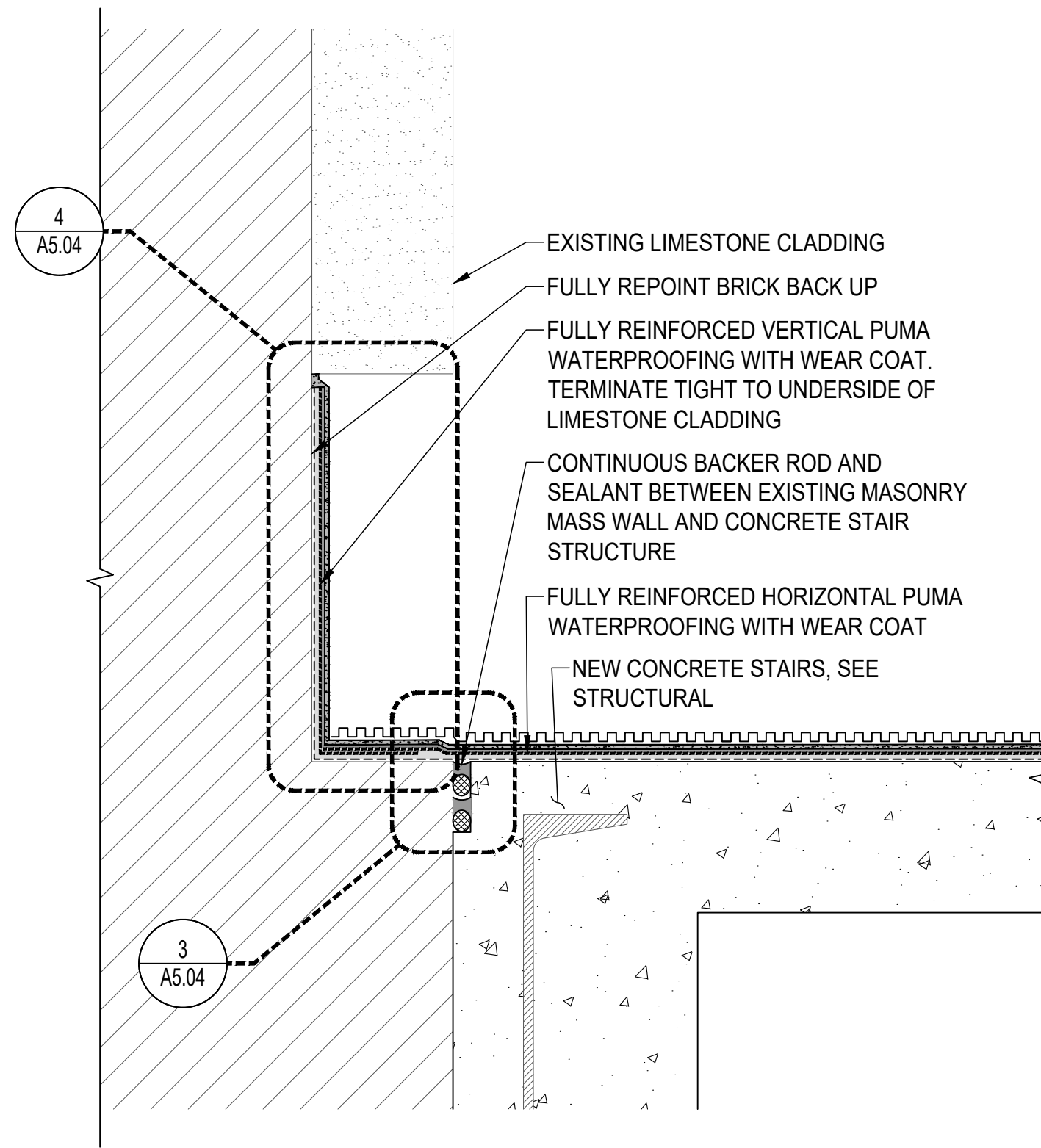
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SHEET NAME

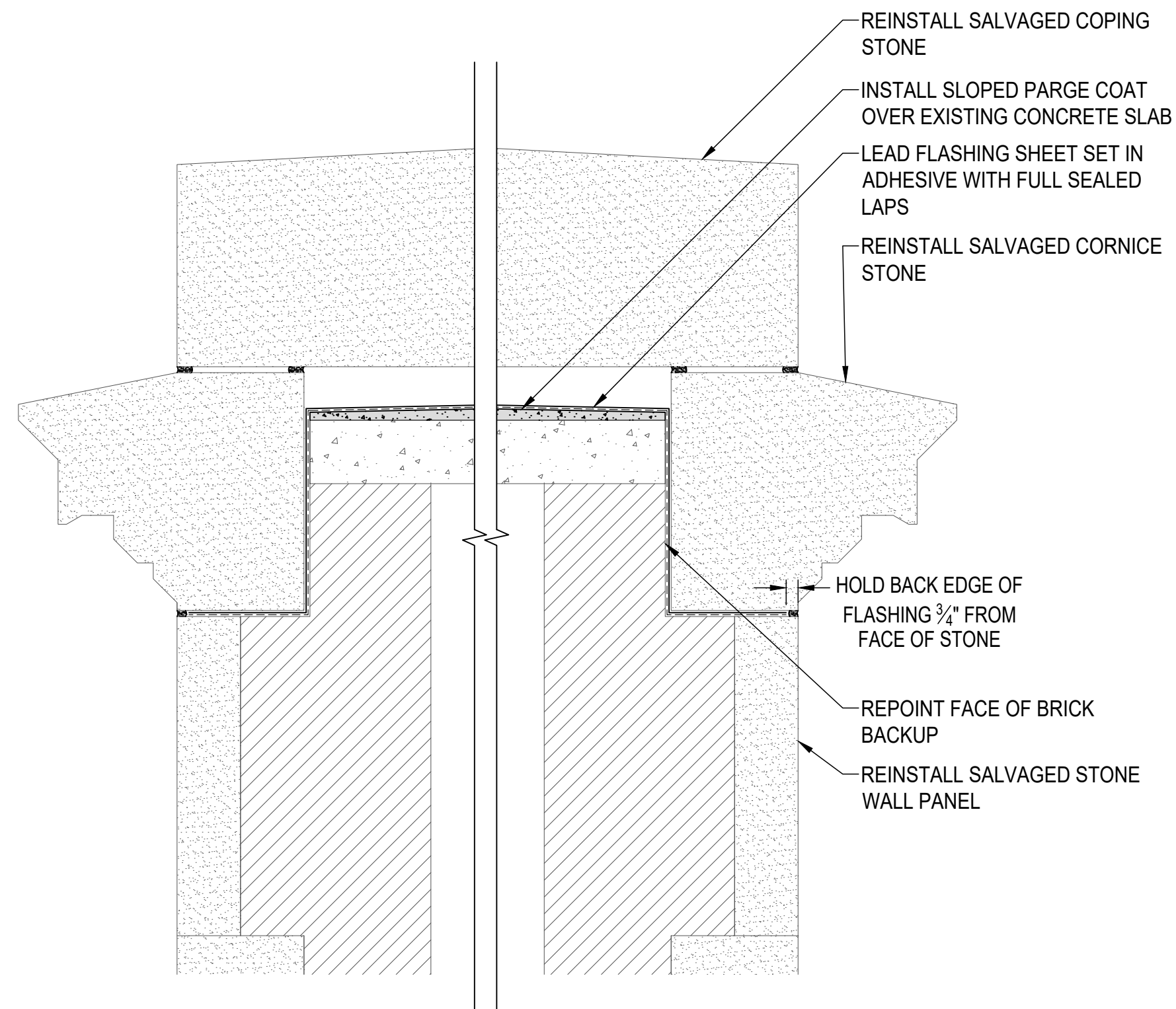
REPAIR
DETAILS

SHEET NUMBER

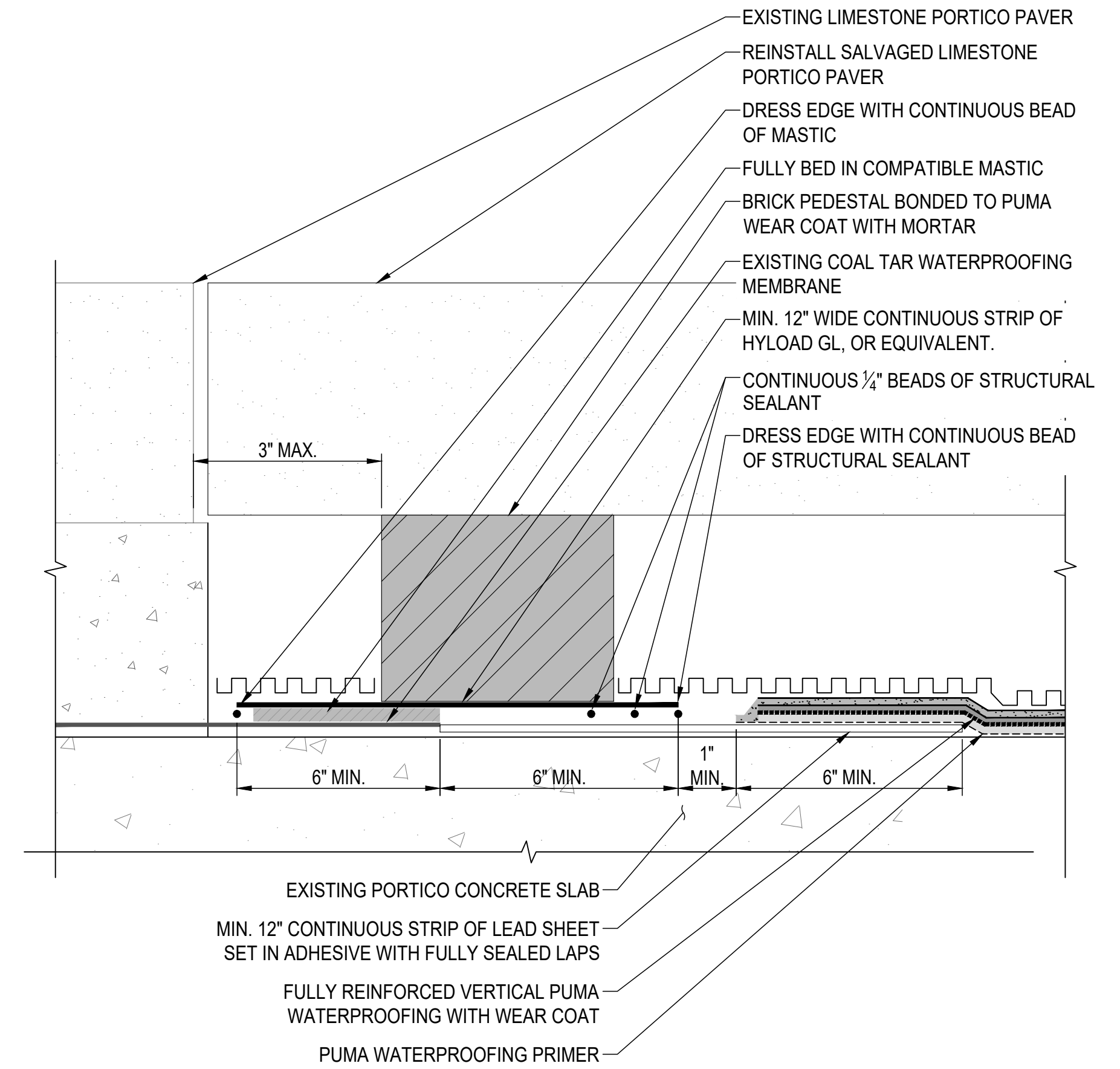
A5.02



1 STAIR-WALL TERMINATION DETAIL
SCALE: 3"=1'-0"

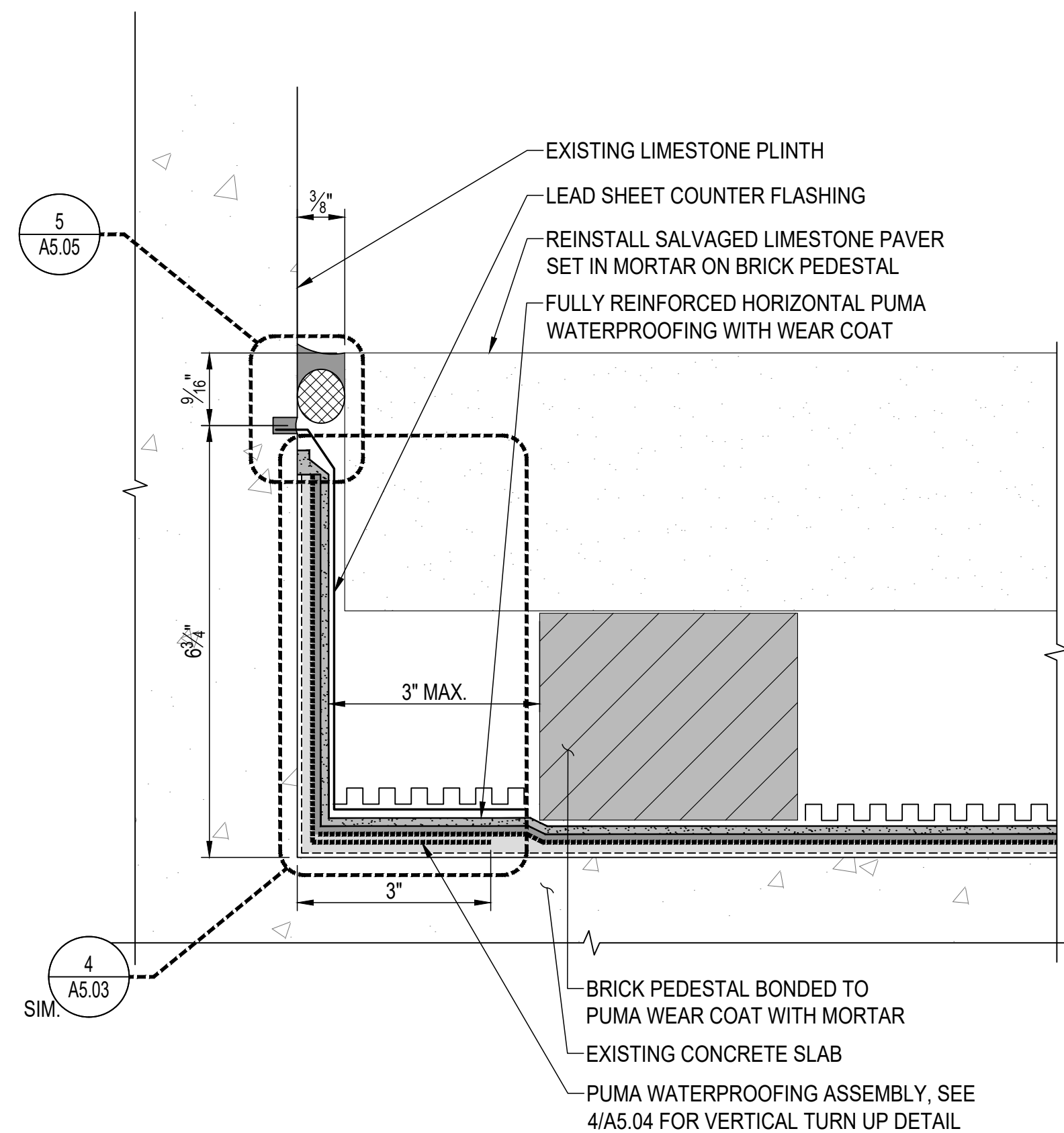


2 COPING DETAIL
SCALE: 1 1/2"=1'-0"

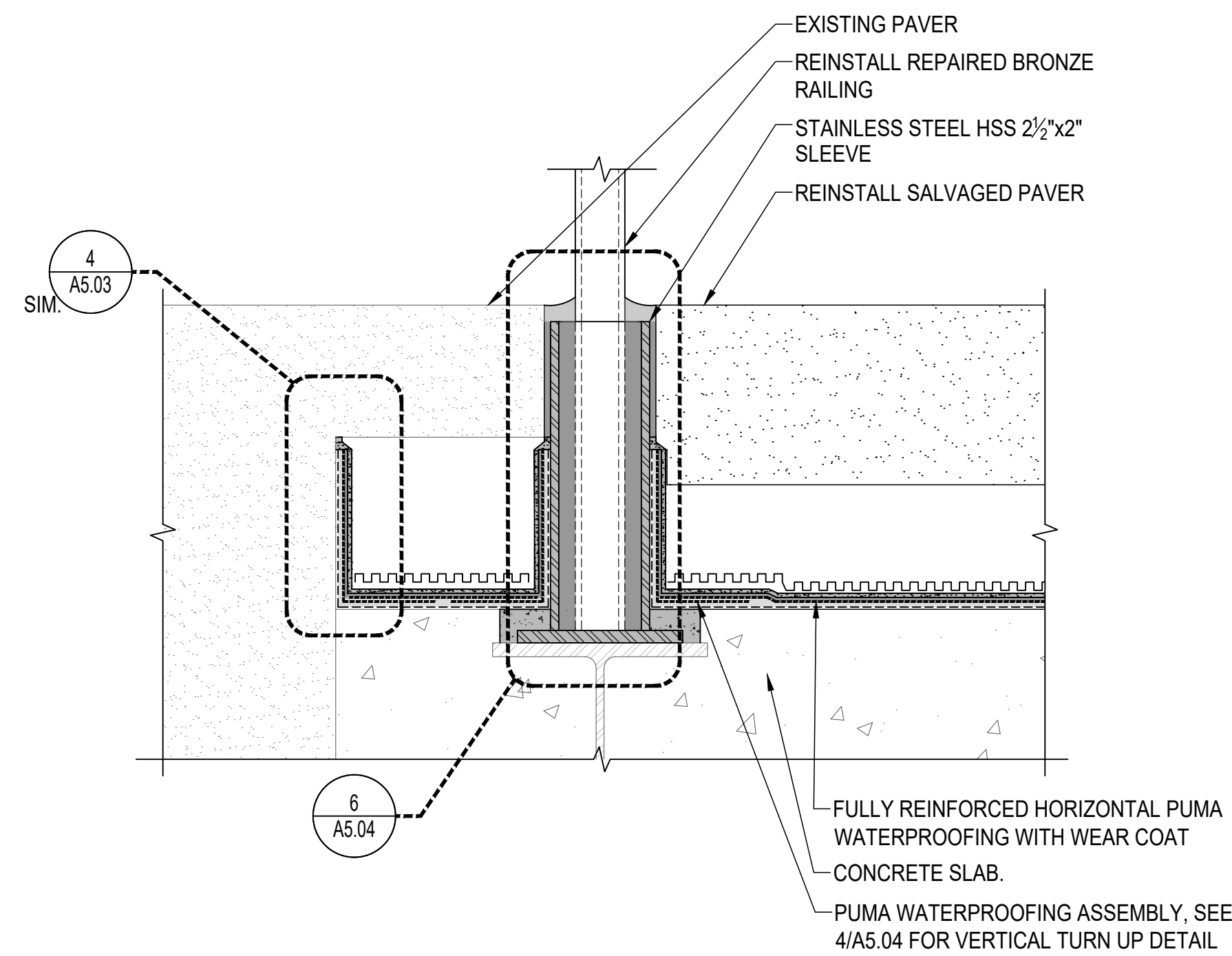


3 PORTICO
WATERPROOFING INTEGRATION DETAIL
SCALE: 6"=1'-0"

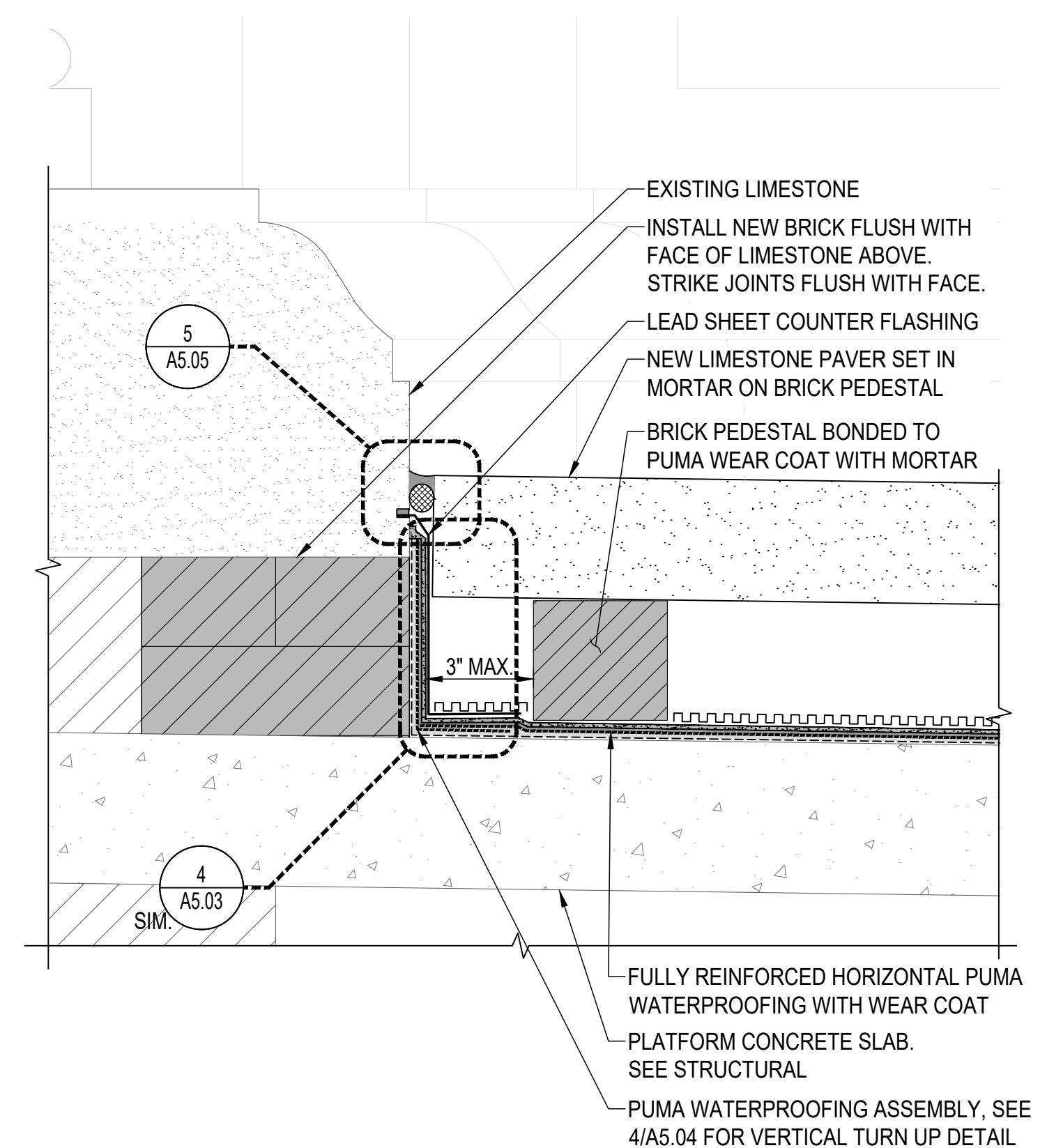
NOTE:
SEE 4/A5.01 FOR TYPICAL PAVER ASSEMBLY.



4 WATERPROOFING DETAIL AT LIMESTONE PLINTHS
SCALE: 3"=1'-0"



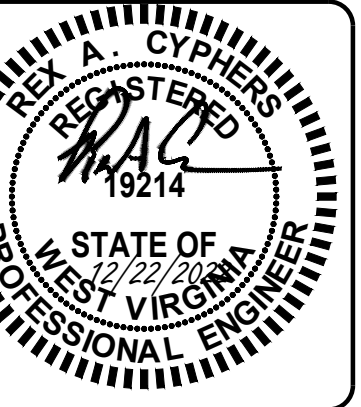
5 WATERPROOFING
DETAIL AT PORTICO CORNICE STONES
SCALE: 1 1/2"=1'-0"



6 WATERPROOFING DETAIL AT PLATFORM BALUSTRADE
SCALE: 3"=1'-0"



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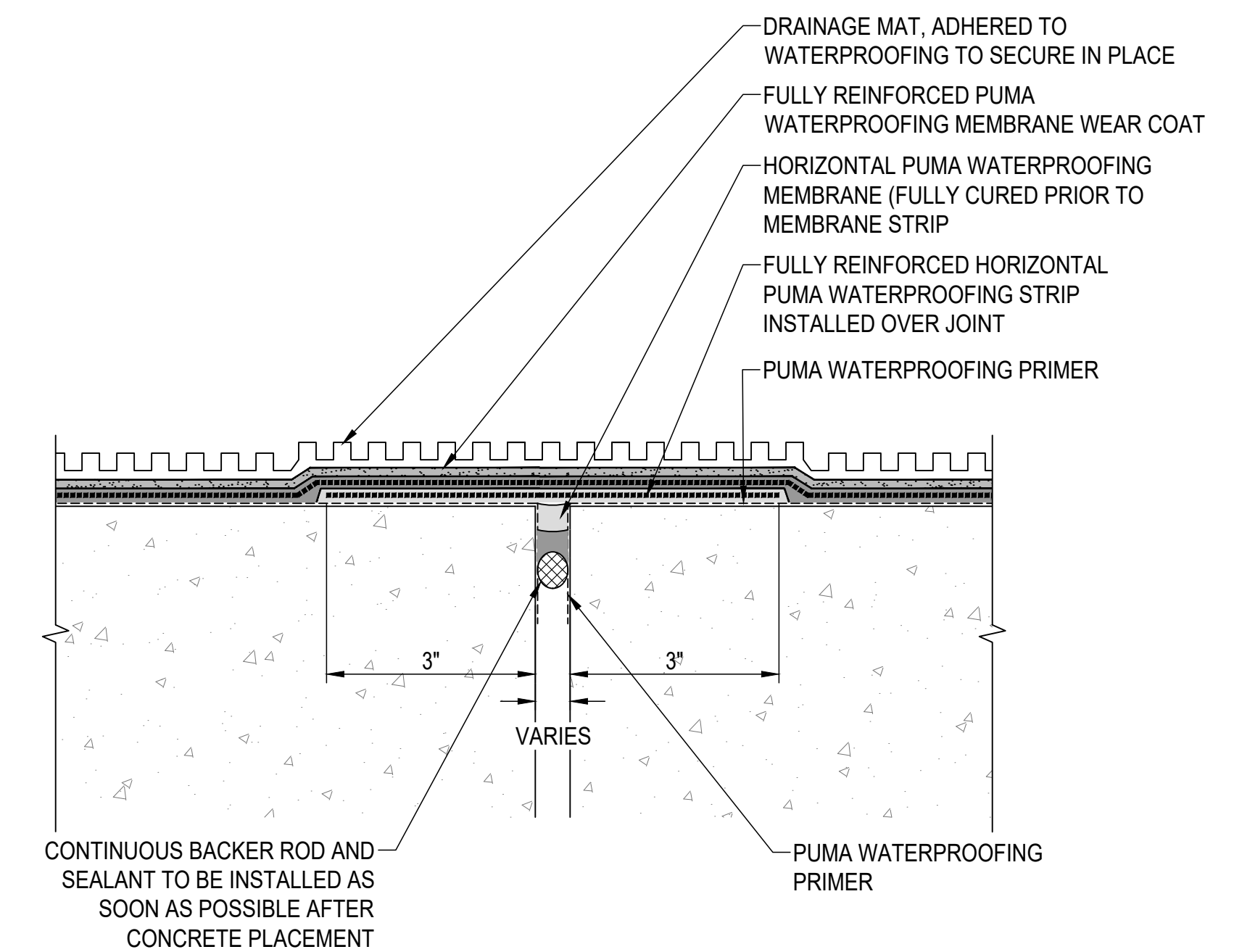
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DRAFT	DT
CHECK	RAC

SHEET NAME

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SHEET NUMBER

A5.03



2 A5.04 TYPICAL CRACK WATERPROOFING DETAIL

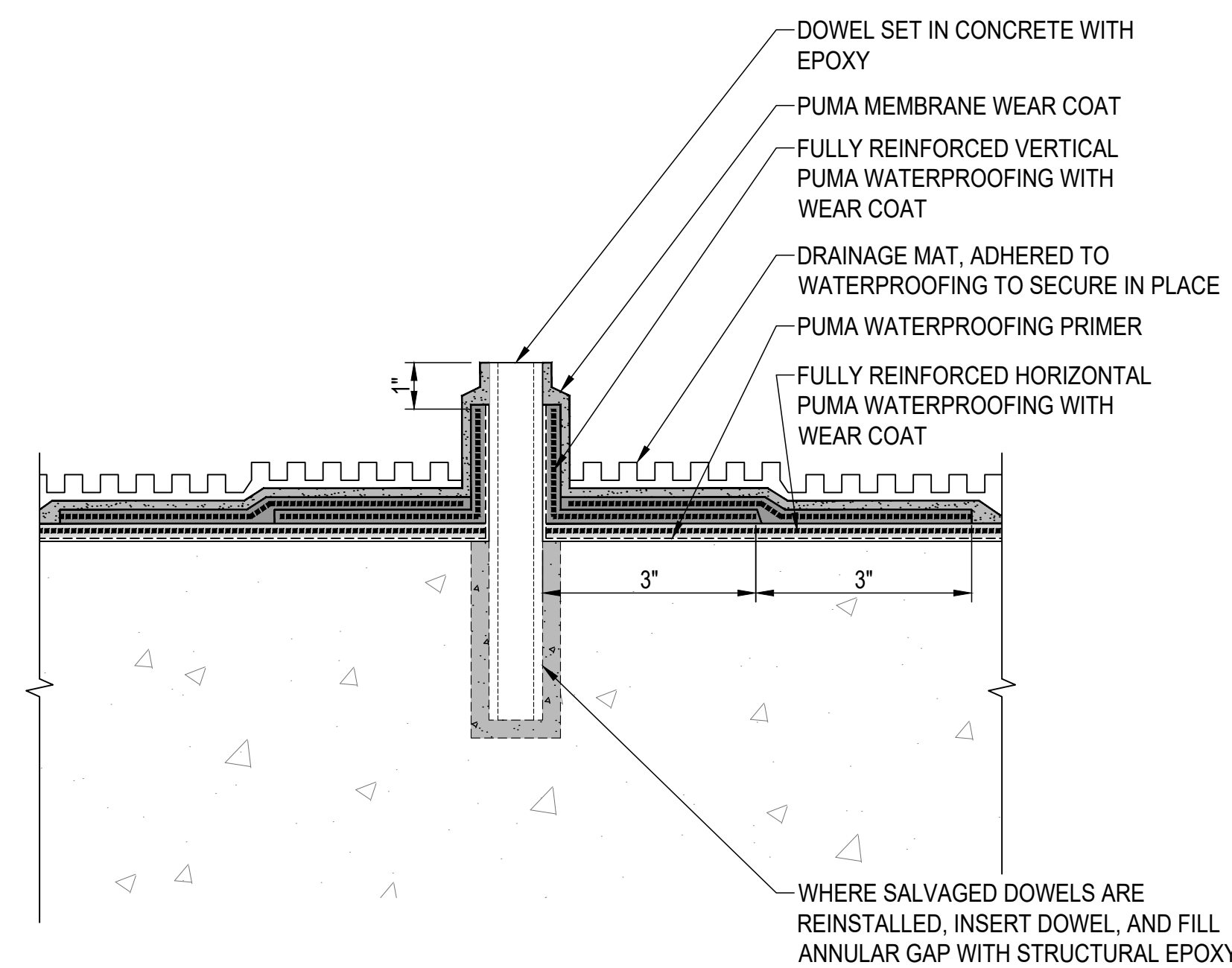
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19214
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PROFESSIONAL ENGINEER

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A5.04

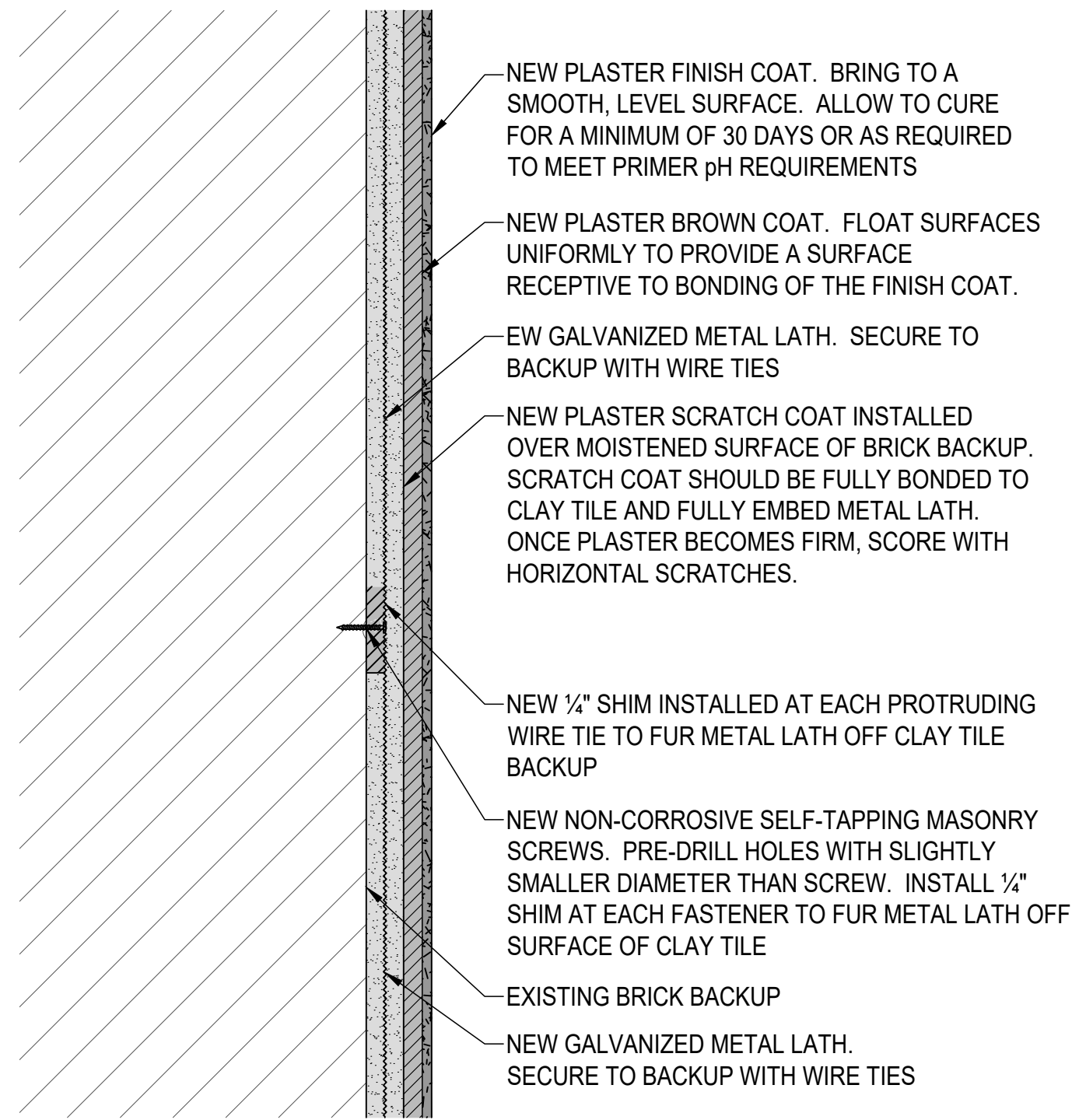


5
A5.04

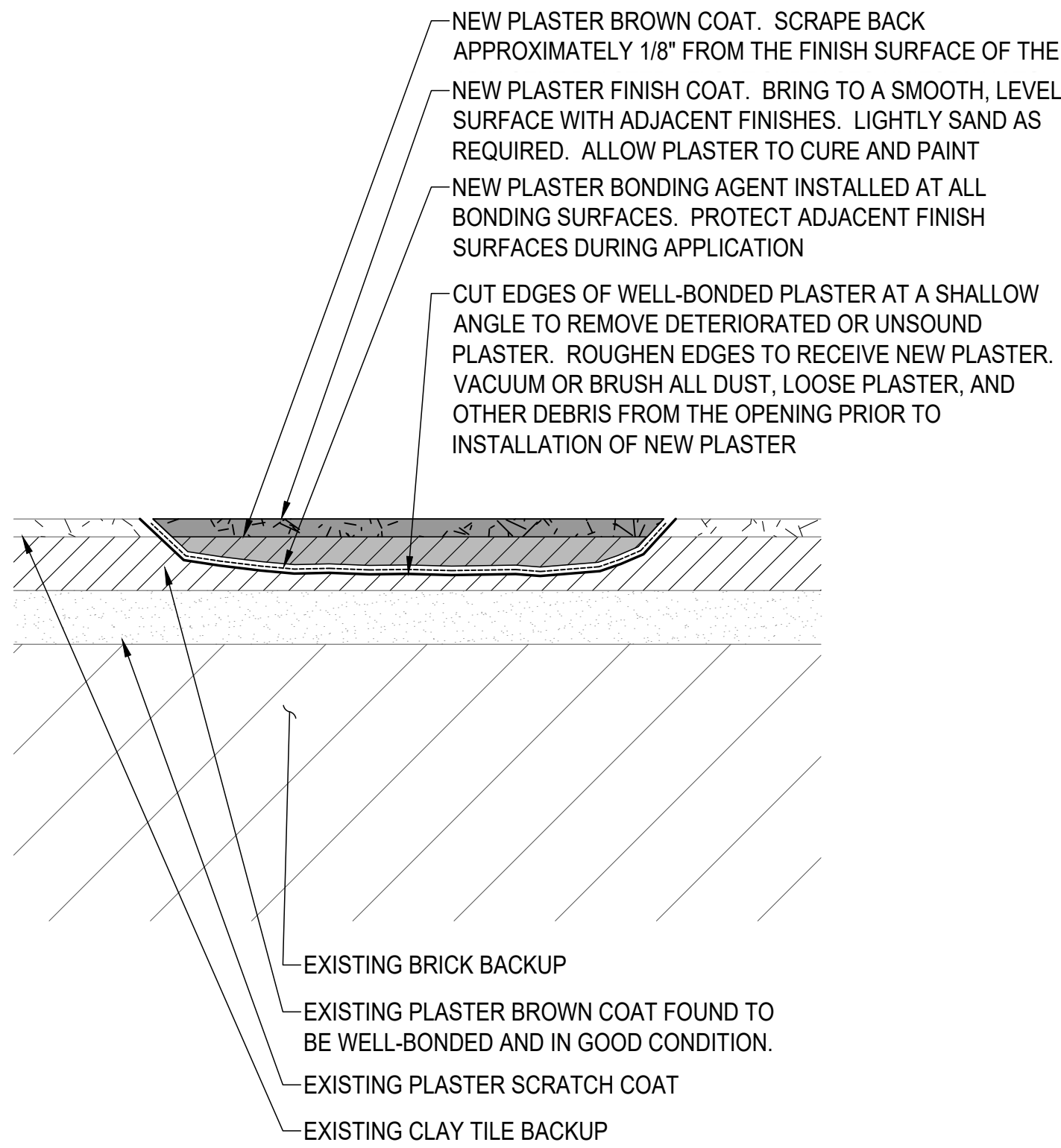
TYPICAL DOWEL
PENETRATION WATERPROOFING DETAIL

SCALE: 6"=1'-0"



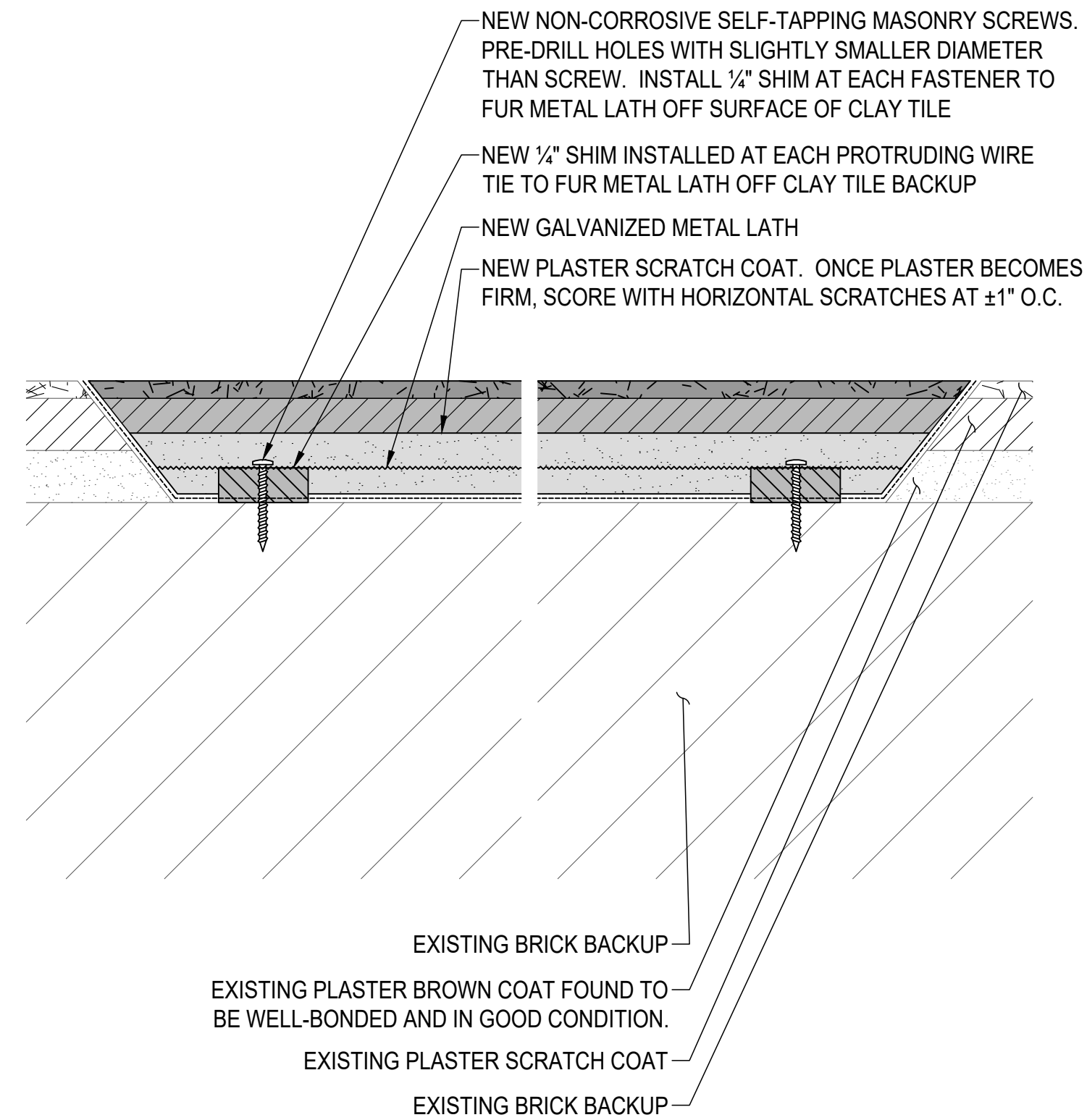


1
A5.05
TYPICAL FLAT PLASTER ASSEMBLY
SCALE: 6"=1'-0"



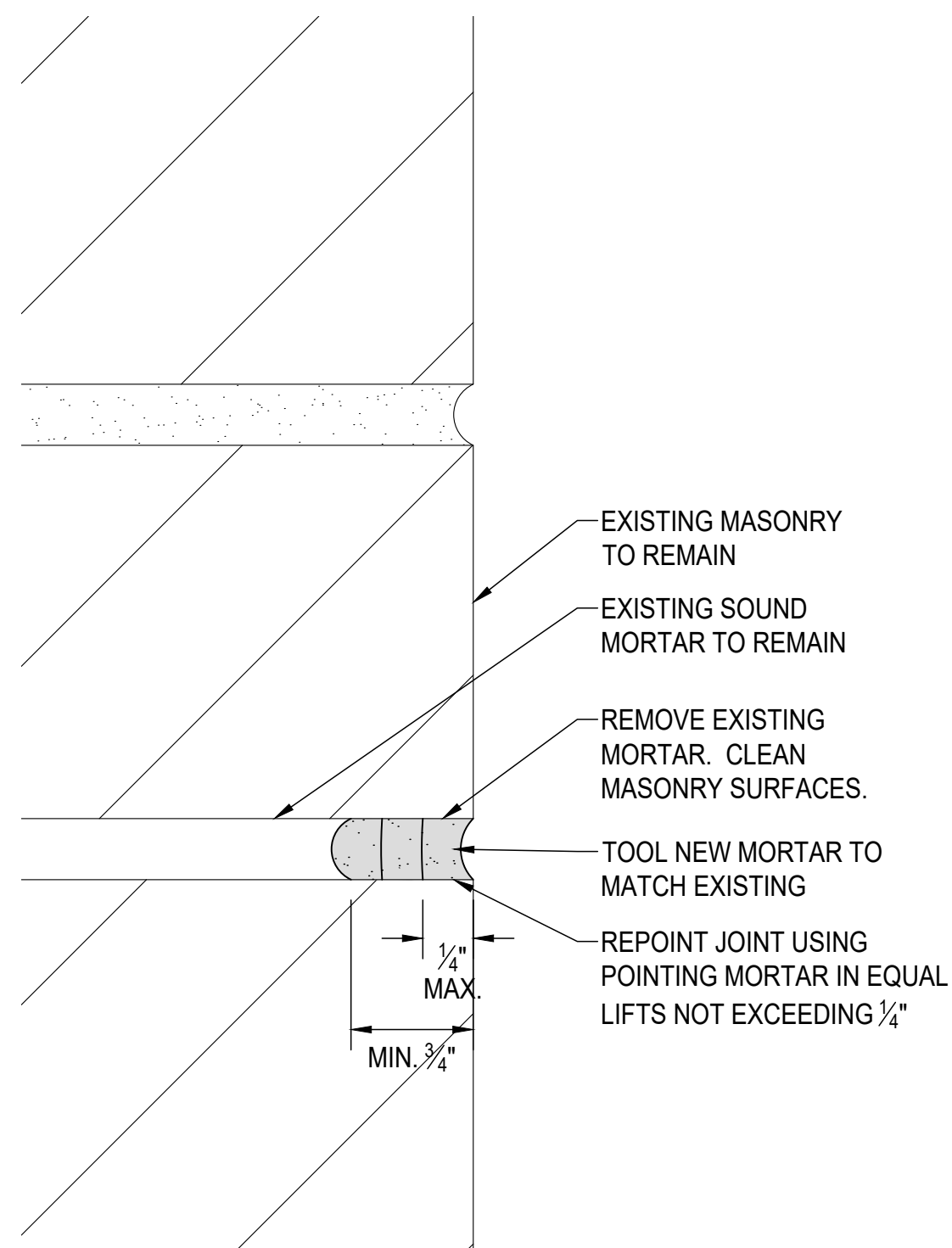
NOTE:
IF DETERIORATED OR UNSOUND PLASTER EXTENDS INTO SCRATCH COAT LAYER, EXTEND OPENING TO BRICK SUBSTRATE AND SEE DETAIL 3/A5.05.

2
A5.05
PATCHING PARTIAL DEPTH FLAT PLASTER
SCALE: 12"=1'-0"

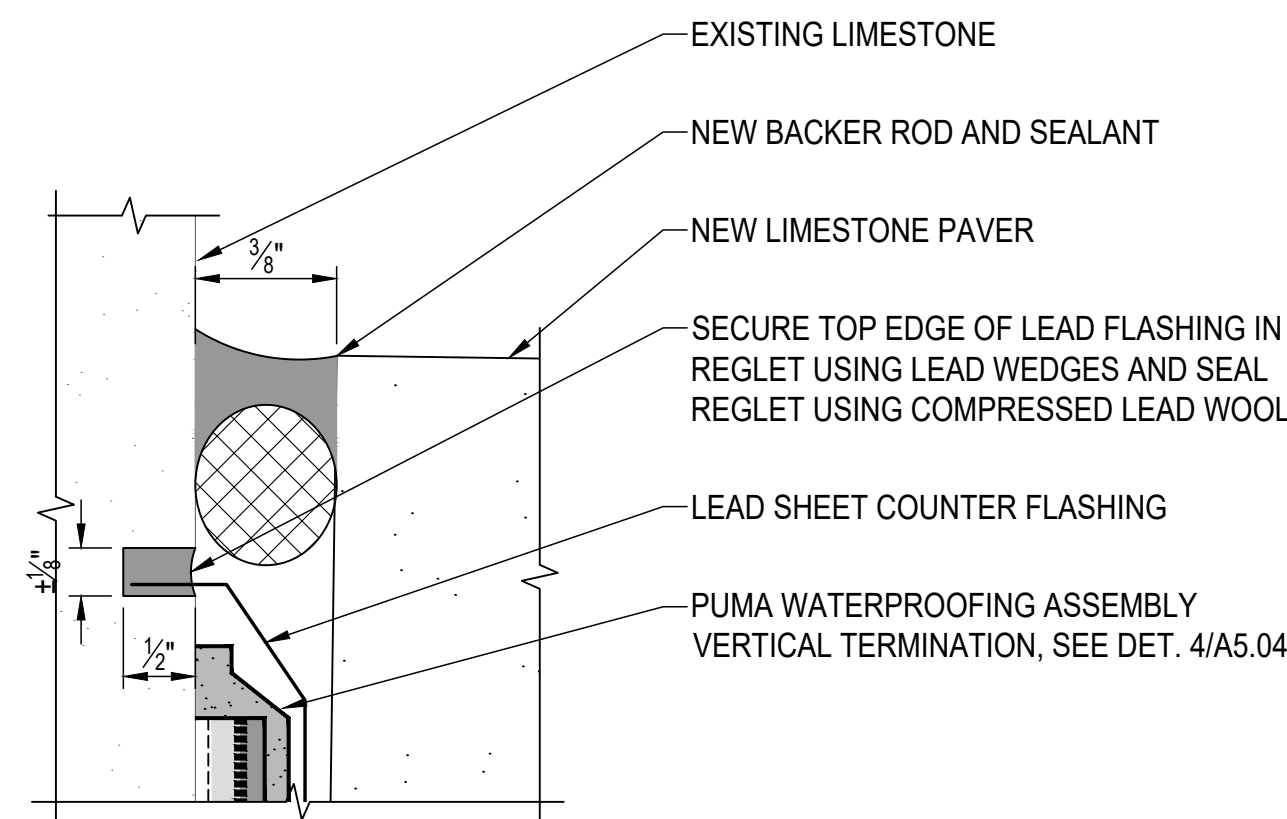


- NOTES.
1. WHERE PLASTER IS DAMAGED THROUGH THE SCRATCH COAT, REMOVE DETERIORATED PLASTER IN AREAS OF 12"x12" SUCH THAT METAL LATH EDGES CAN BE SECURED IN JOINT OF CLAY TILE.
 2. THICKNESS OF INDIVIDUAL LAYERS OF PLASTER FOR REPAIR MAY VARY FROM EXISTING, ADJACENT PLASTER. THIS IS ACCEPTABLE PROVIDED OVERALL FINISH THICKNESS IS THE SAME.
 3. COMPONENTS AND PROPORTIONS OF PLASTER REPAIR MATERIALS MAY VARY BASED ON PRECONSTRUCTION TESTING OF EXISTING PLASTER.

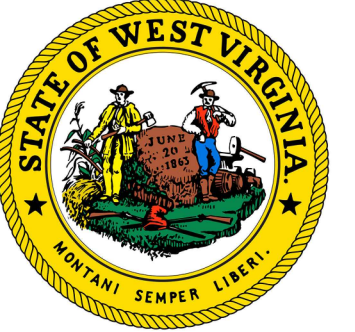
2
A5.05
PATCHING FULL DEPTH FLAT PLASTER
SCALE: 12"=1'-0"



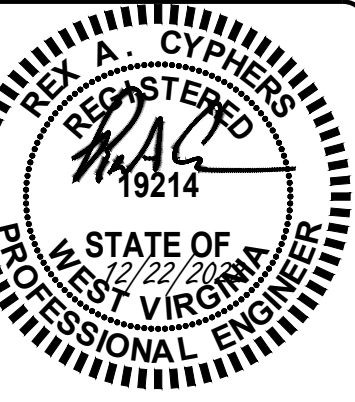
4
A5.05
MASONRY POINTING DETAIL
SCALE: 12"=1'-0"



5
A5.05
COUNTERFLASHING REGLET DETAIL
SCALE: NTS



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SHEET NUMBER

A5.05



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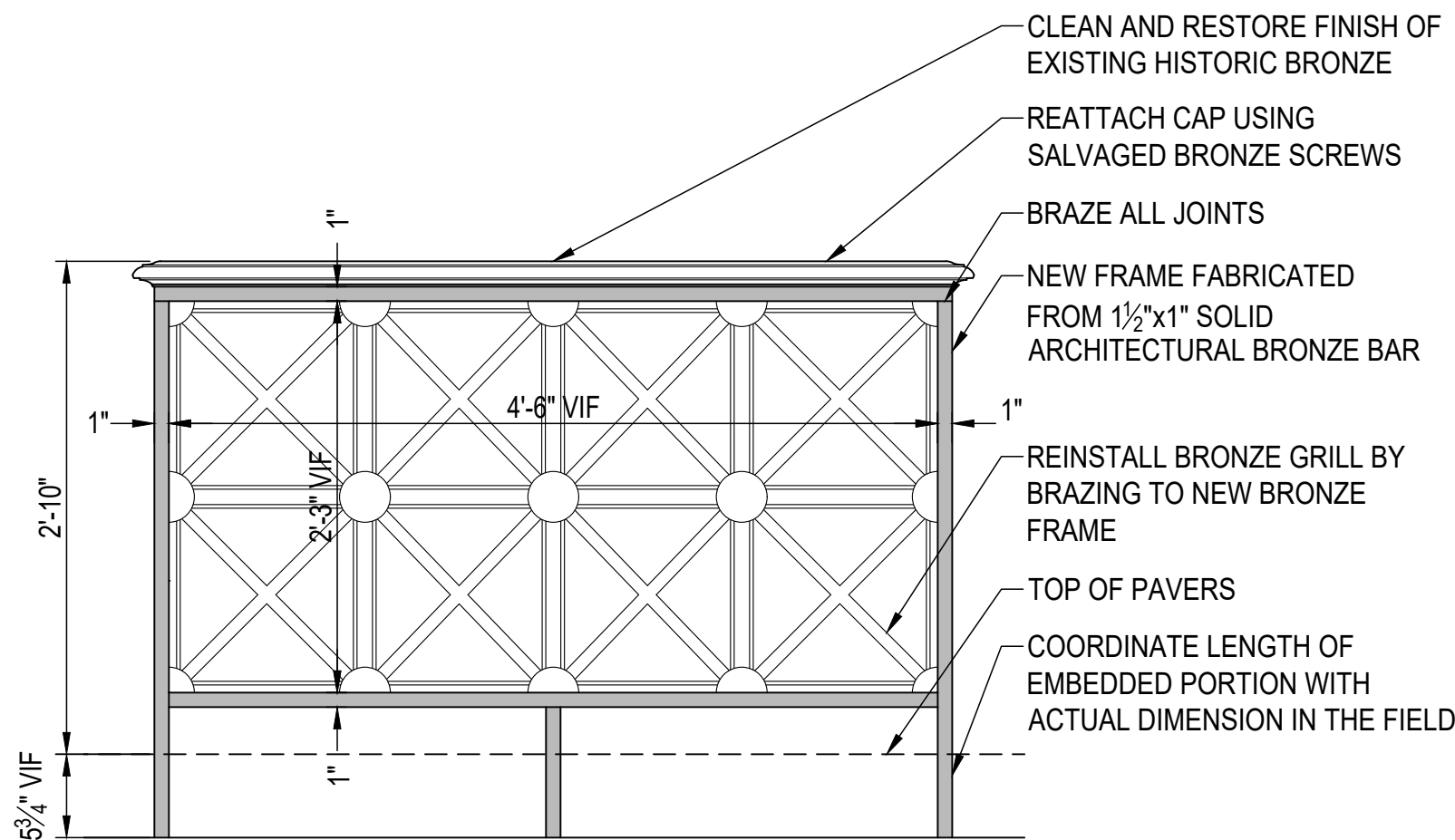
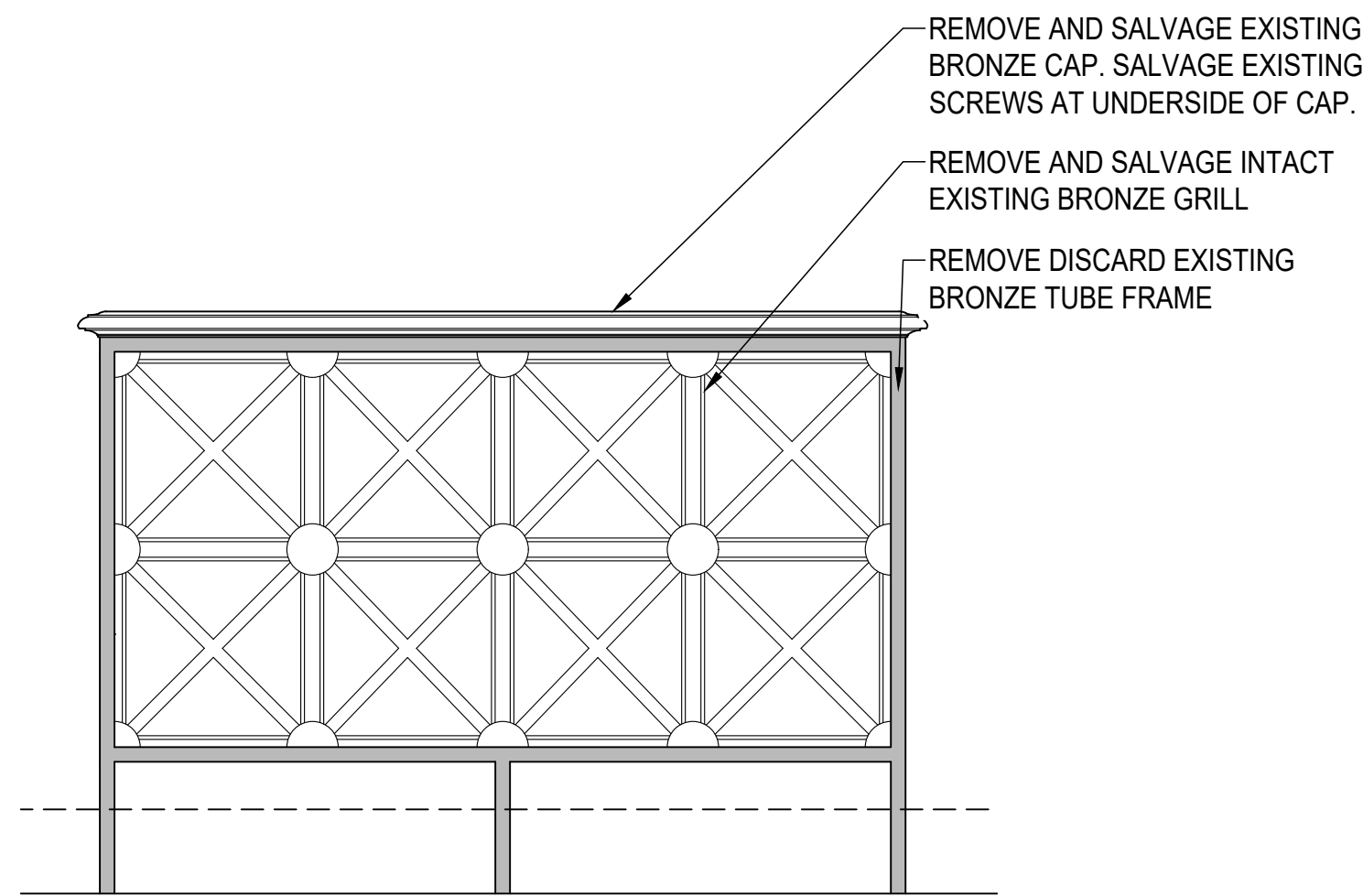
WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS

SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME
REPAIR
DETAILS

SHEET NUMBER
A5.06



1

A5.06

PORTICO RAILING DEMOLITION

SCALE: 1"=1'-0"

2

A5.06

PORTICO RAILING REPAIR

SCALE: 1"=1'-0"

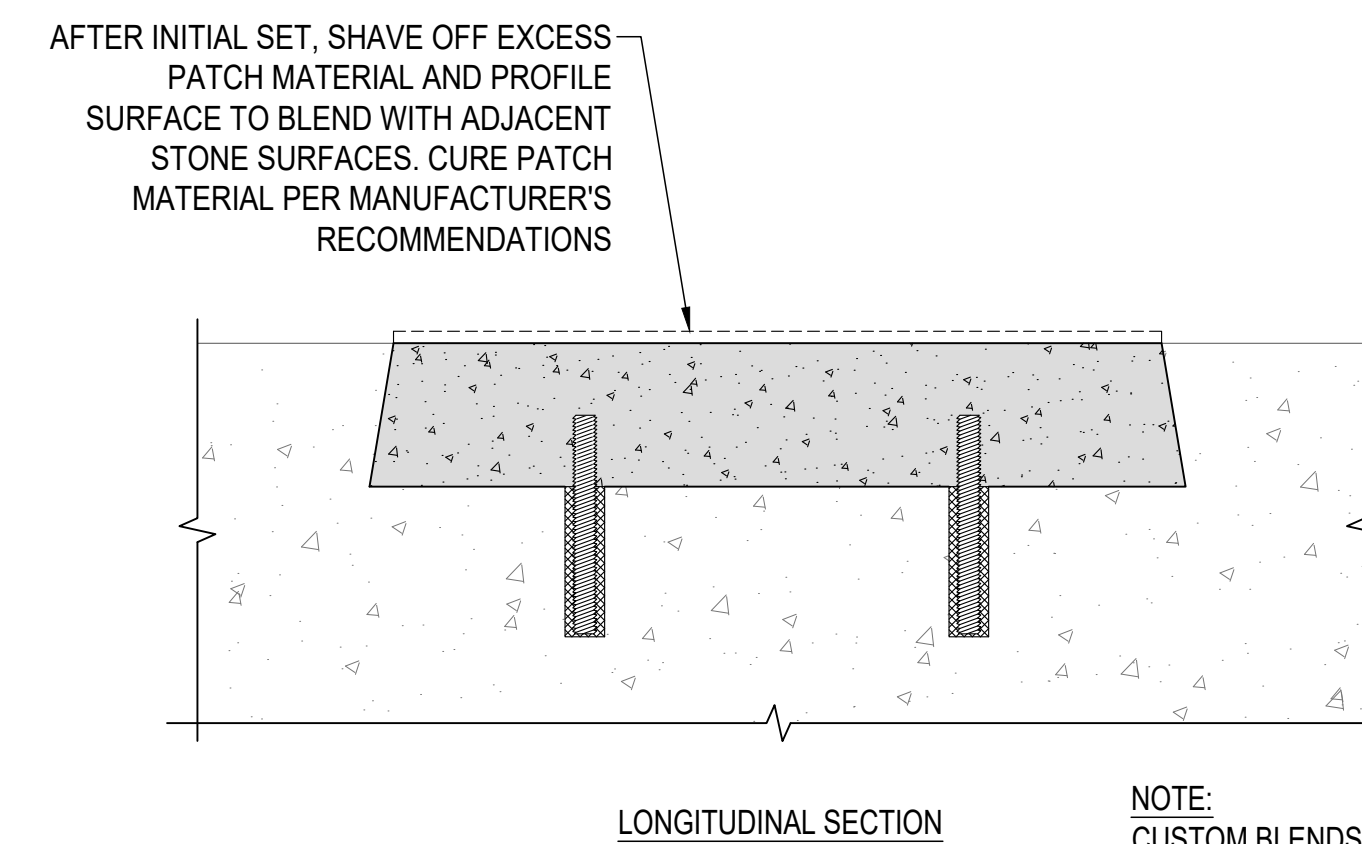
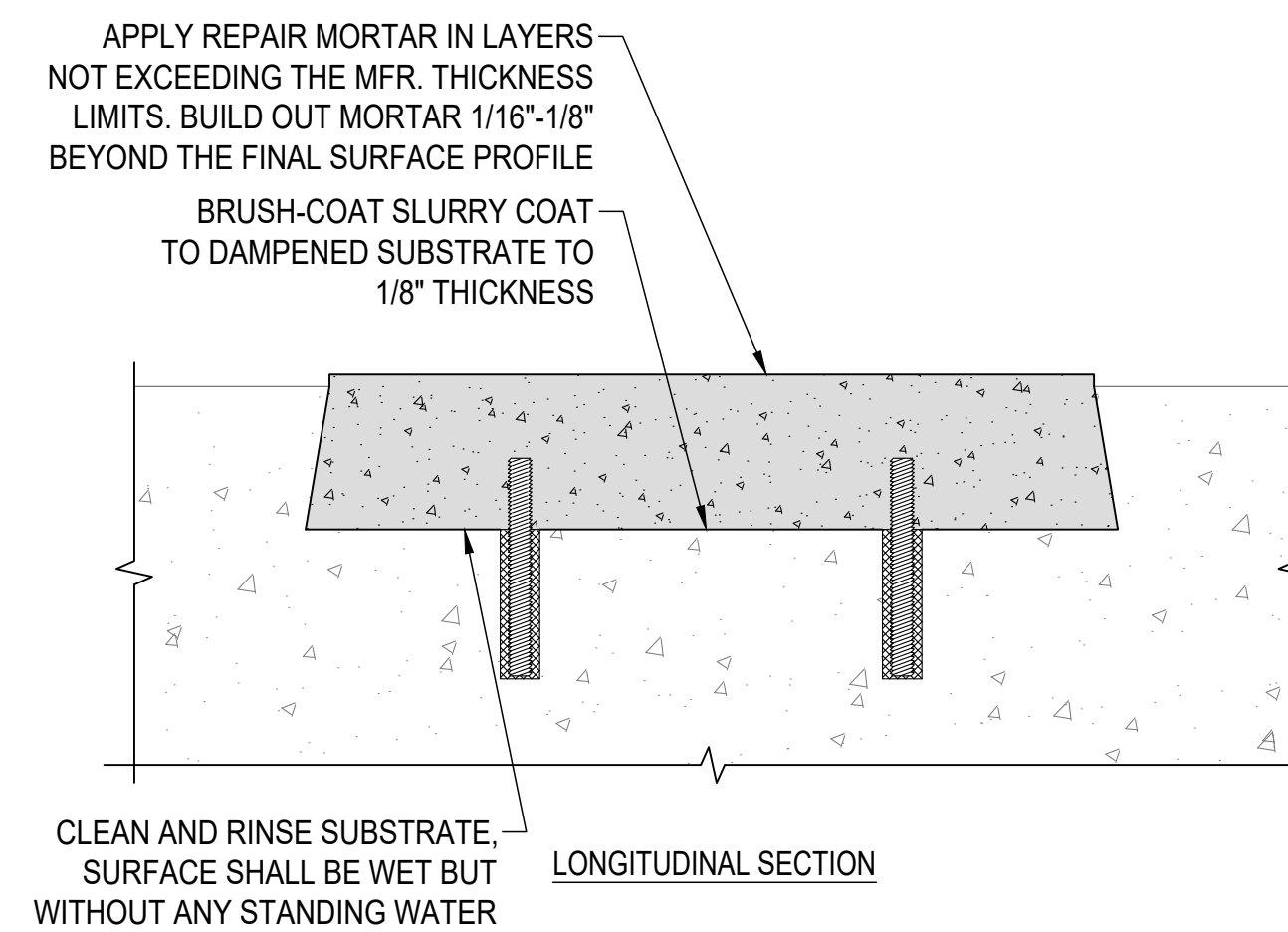
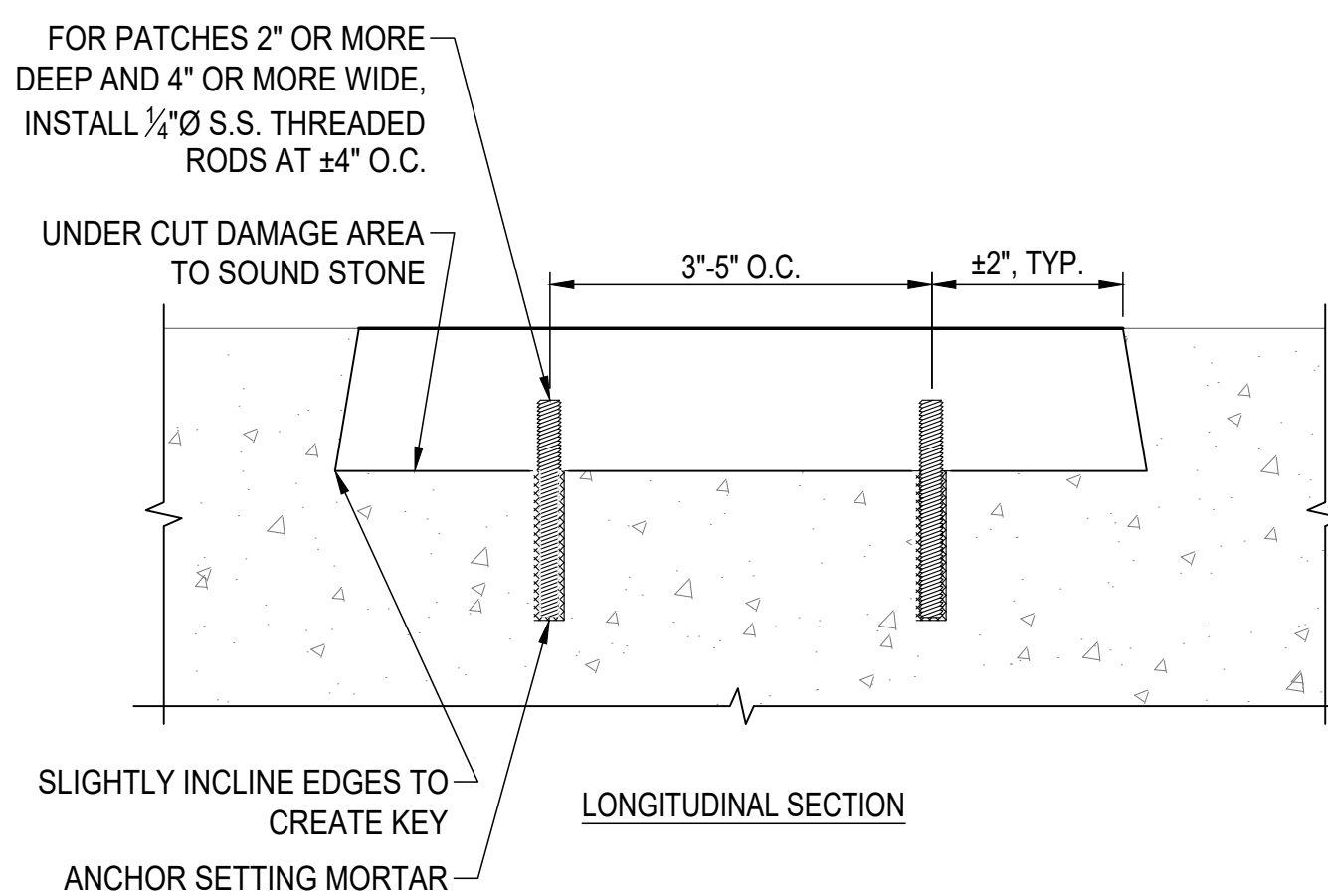
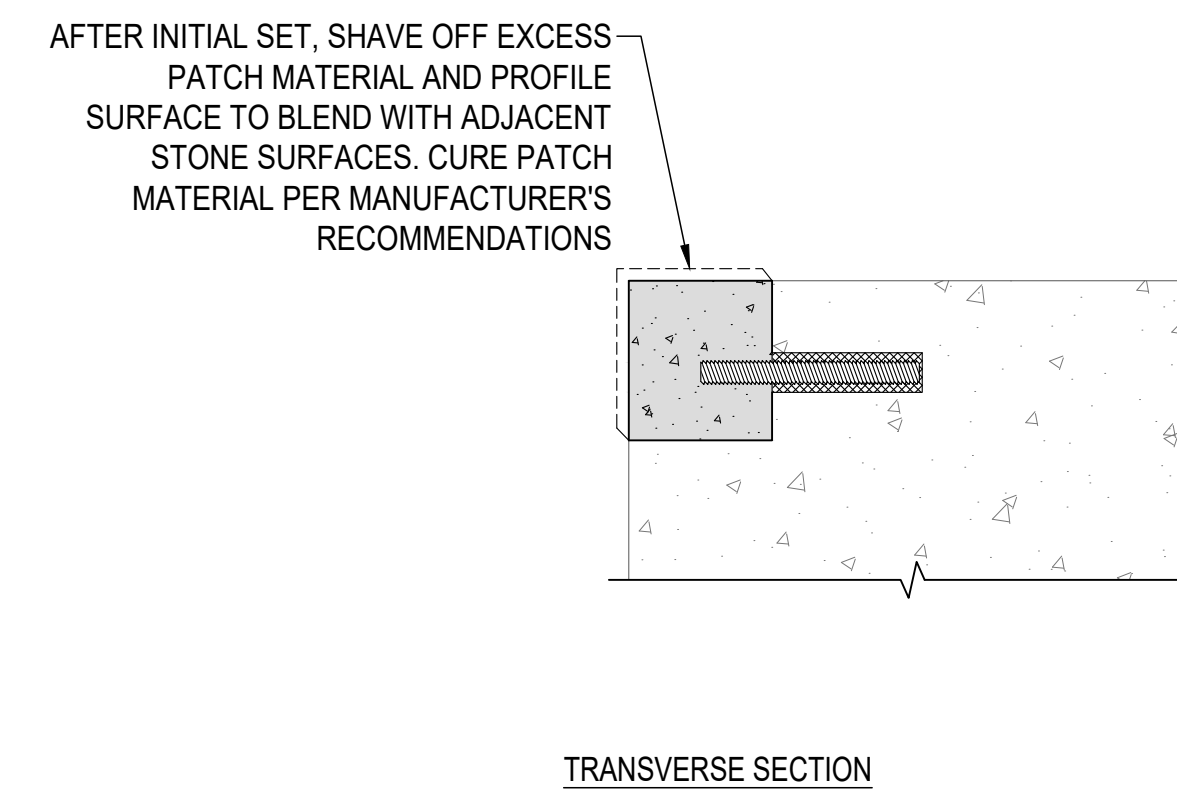
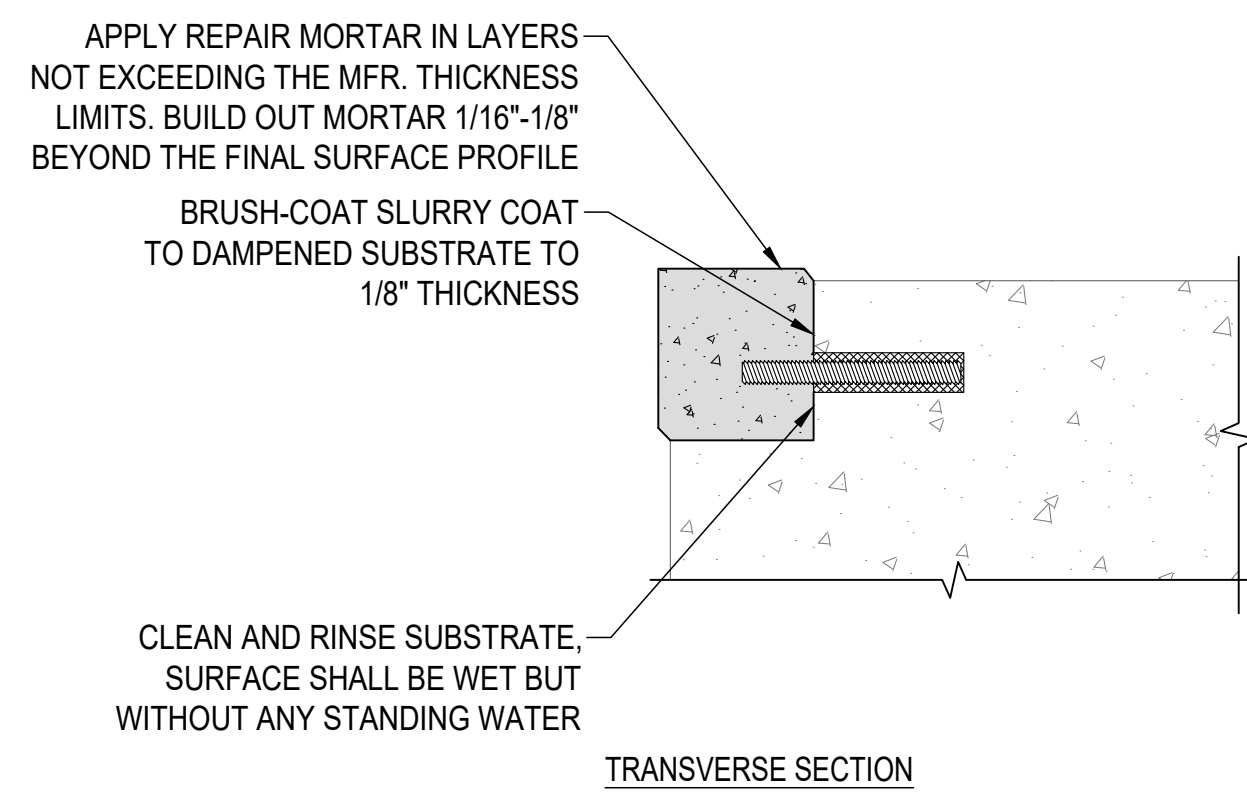
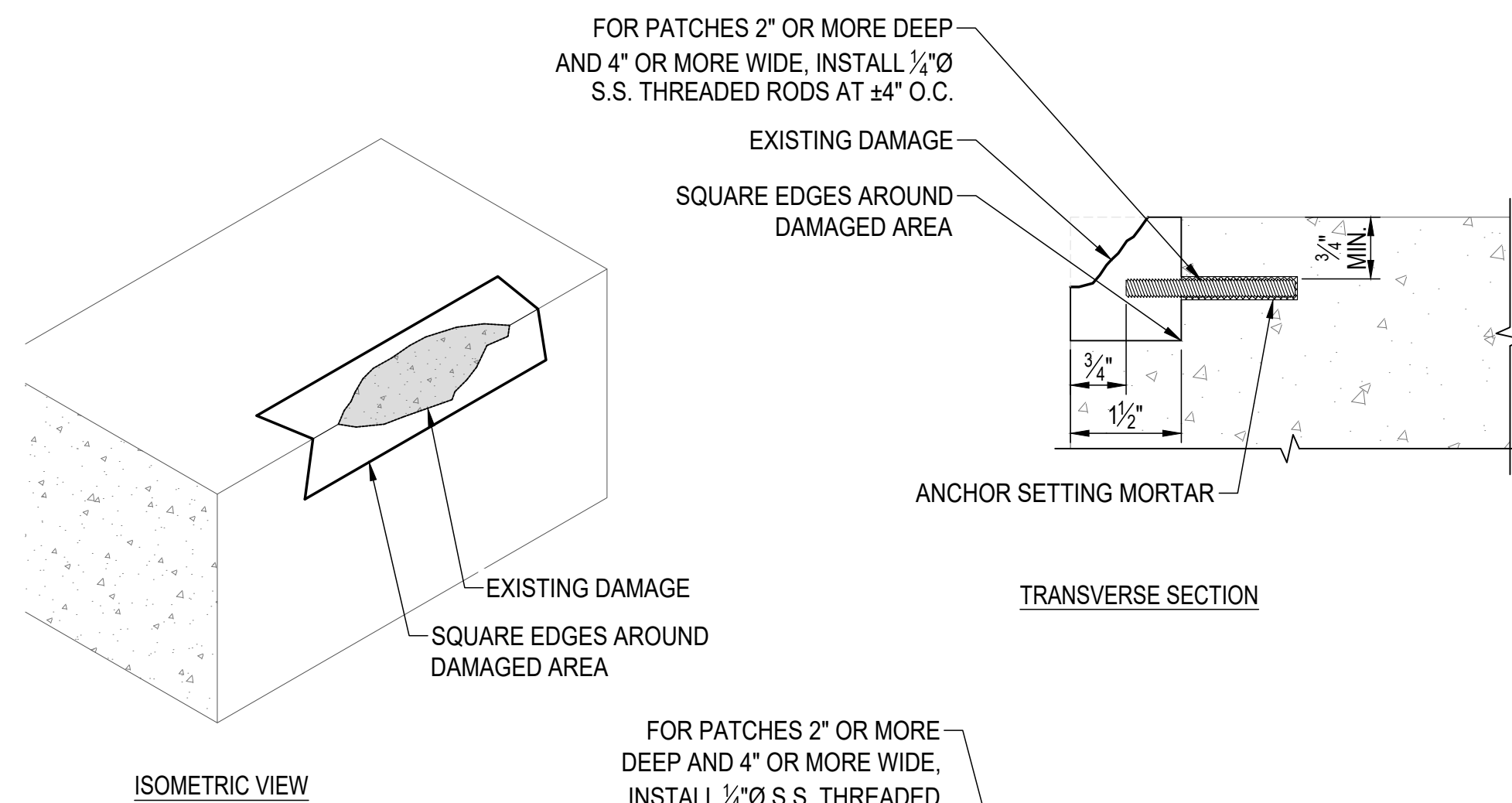
LOCATION	FLOOR	WALL BASE	WALL FINISH	WALL PAINT	CEILING	CEILING PAINT
READING ROOM	CARPET TILE	4" RESILENT BASE	1/2" GYPSUM BOARD	INTERIOR LATEX	CONCRETE	MINERAL PAINT
ANTE ROOM	EX. STONE TO REMAIN	EX. MARBLE BASE TO REMAIN	"EX. MARBLE WAINSCOTING AND PLASTER TO REMAIN"	NONE	EX. PLASTER	INTERIOR LATEX
		4" RESILENT BASE	GYPSUM BOARD (NEW TO MATCH EX.)	INTERIOR LATEX		
BREAK ROOM	EX. COMPOSITE TILE TO REMAIN	4" RESILENT BASE	PLASTER	INTERIOR LATEX	CONCRETE	MINERAL PAINT
			EX. BRICK TO REMAIN	NONE		
E & W STORAGE ROOMS	EX. CONCRETE TO REMAIN	NONE	EX. BRICK TO REMAIN	INTERIOR LATEX	CONCRETE	MINERAL PAINT

3

A5.06

INTERIOR FINISH SCHEDULE

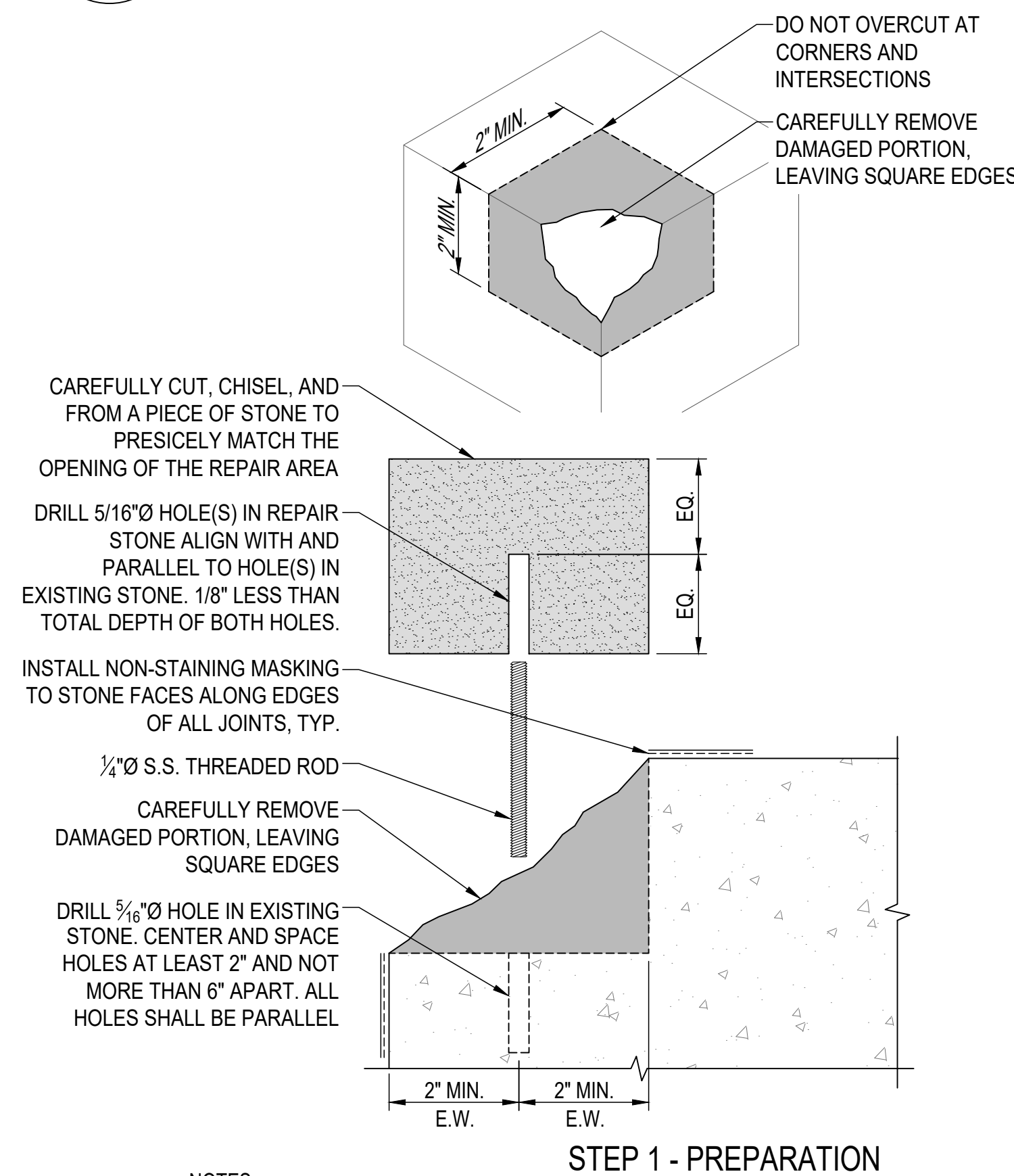
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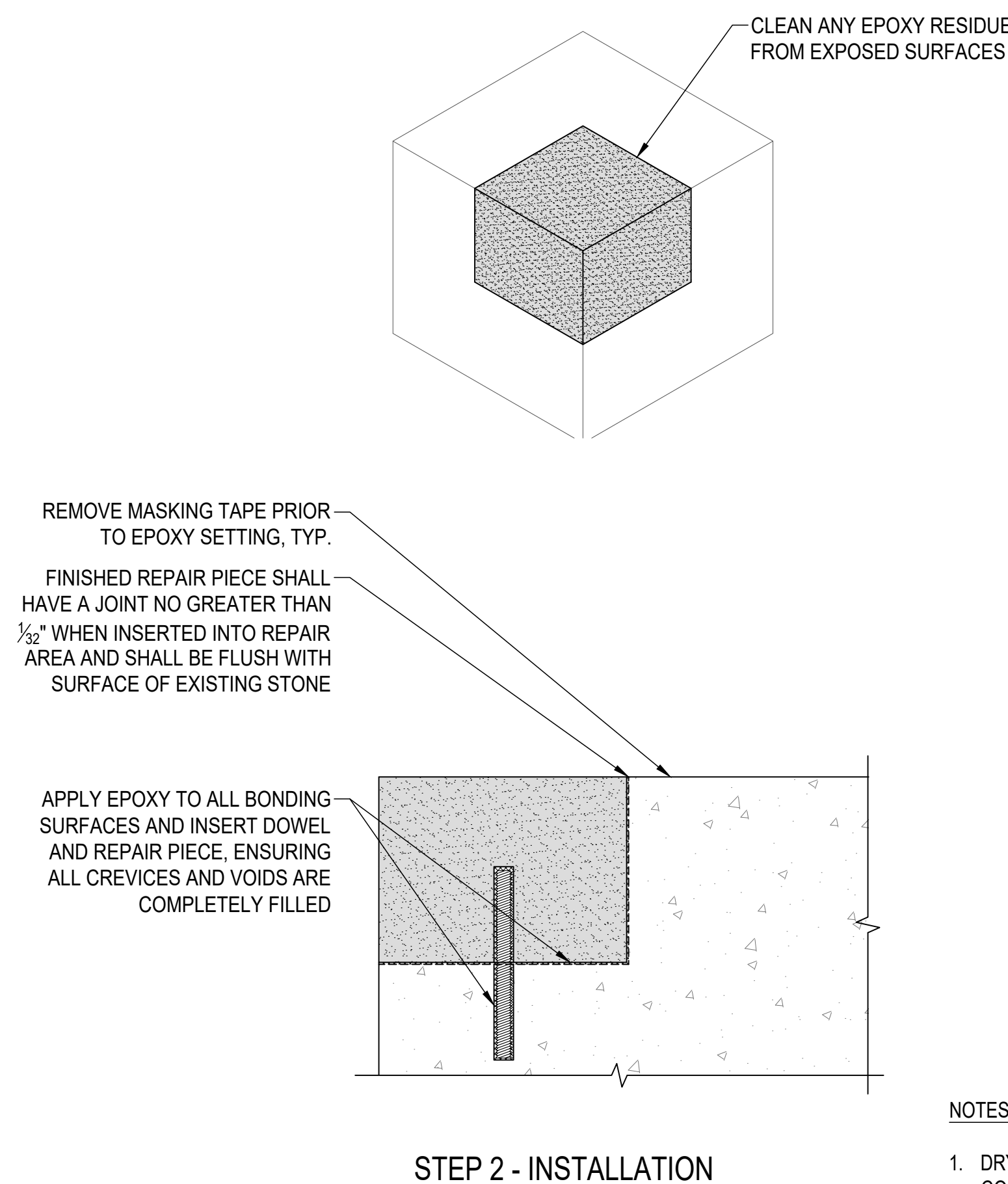
NOTE:
CUSTOM BLENDS AS MULTIPLE FINISH. TECHNICIANS MAY BE
REQUIRED TO ACHIEVE DESIRED AESTHETICS.

1 STONE PATCH REPAIR DETAIL

SCALE:



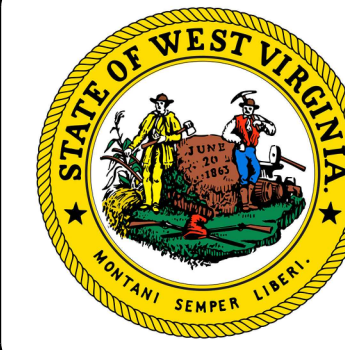
- NOTES:
1. CLEAN AND PREPARE ALL BONDING SURFACES AND HOLES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 2. DO NOT ALLOW EPOXY TO TOUCH EXISTING EXPOSED SURFACES.



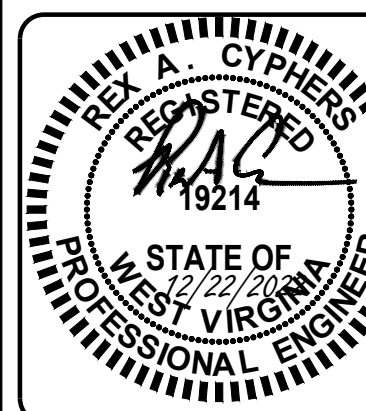
- NOTES:
1. DRY-FIT REPAIR PIECE AND ALL DOWELS TO VERIFY CORRECT FIT AND MATCH OF ALL COMPONENTS PRIOR TO APPLYING EPOXY.
 2. ENGINEER SHALL APPROVE DRY-FIT OF FIELD REPAIRS PRIOR TO APPLYING EPOXY.

2 STONE DUTCHMAN REPAIR DETAIL

SCALE: 6"=1'-0"



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REVISIONS

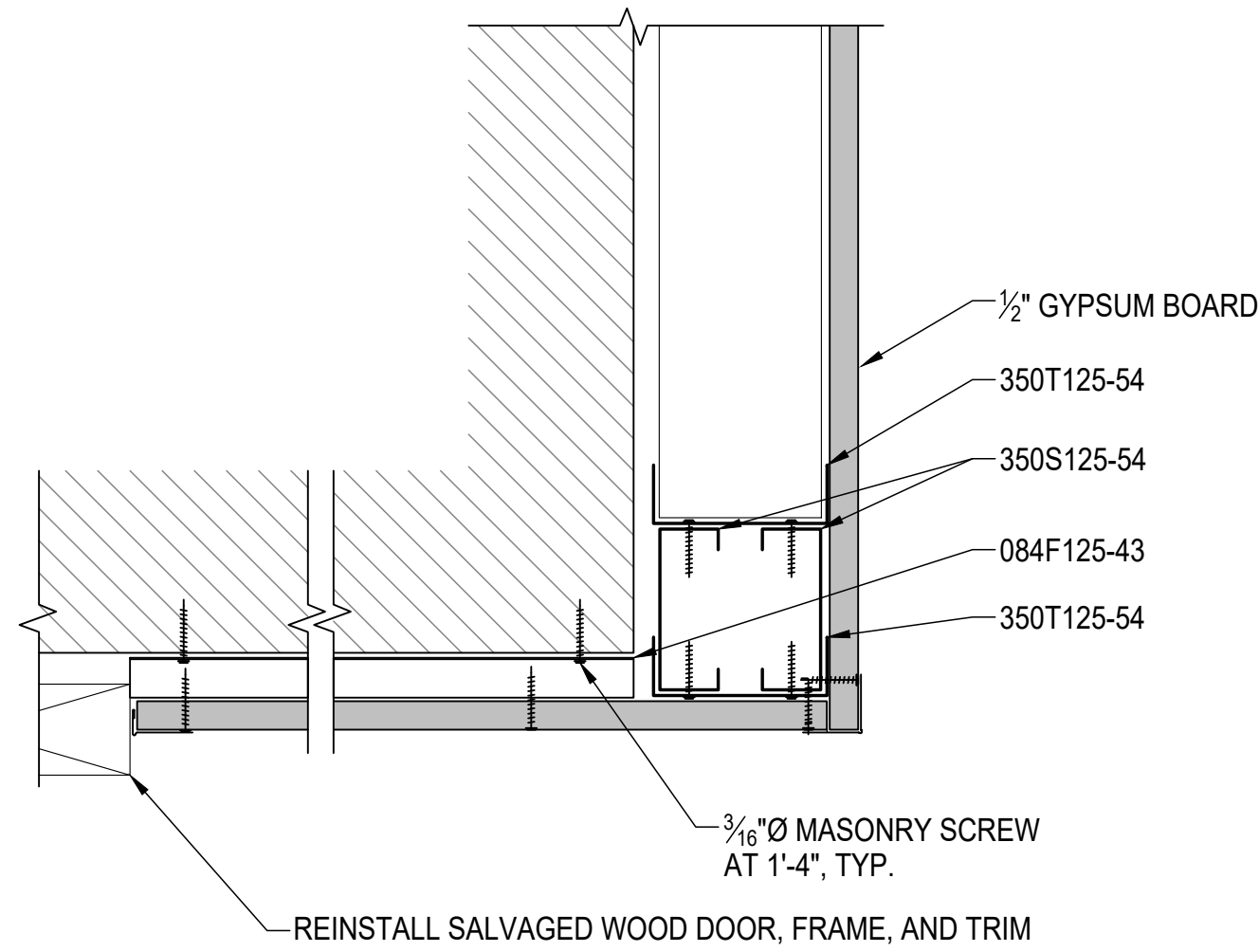
SUBMISSION DATE	12/22/22
WDP JOB NUMBER	21060
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DRAFT	DT
CHECK	RAC

SHEET NAME

STONE
REPAIR
DETAILS

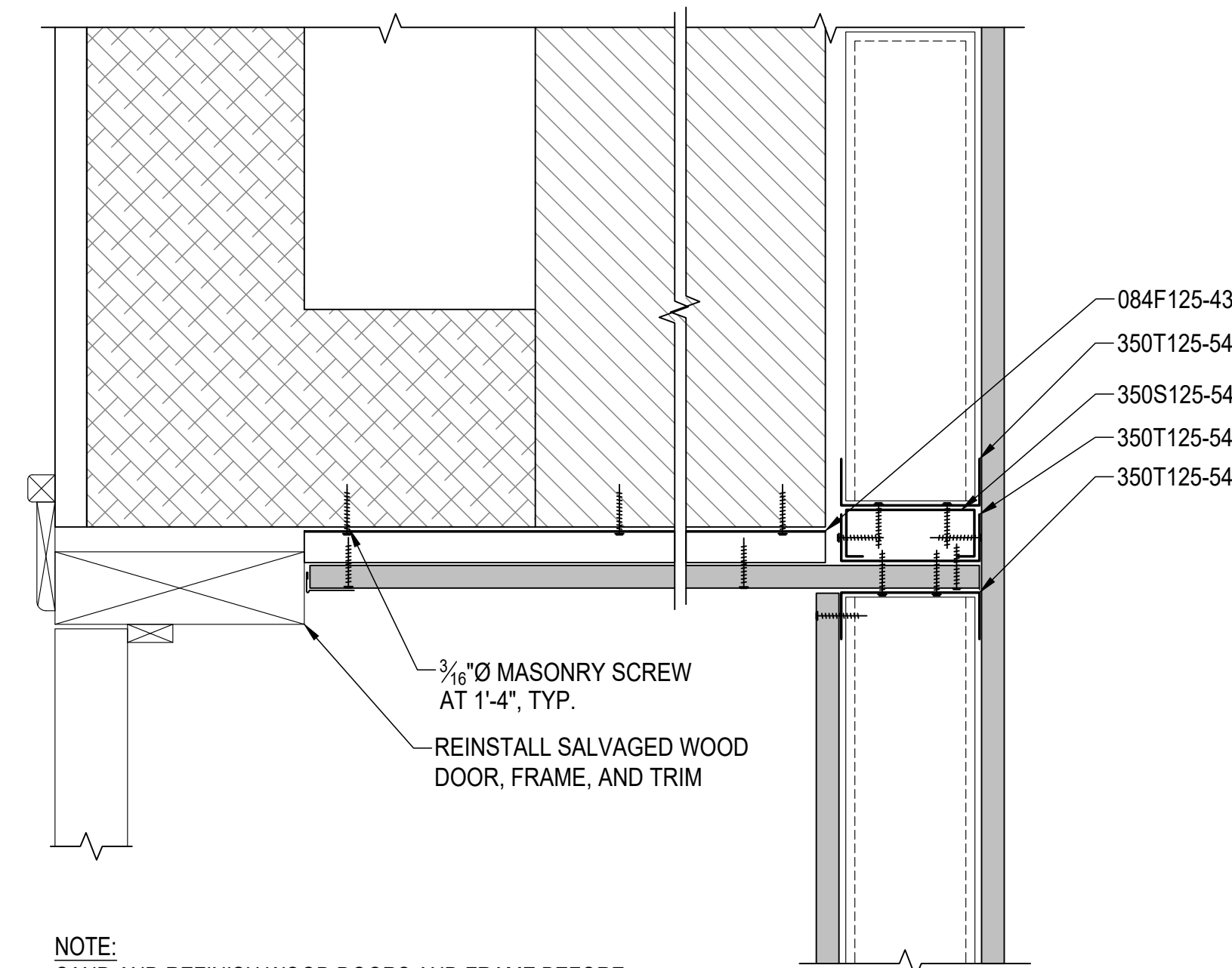
SHEET NUMBER

A5.07



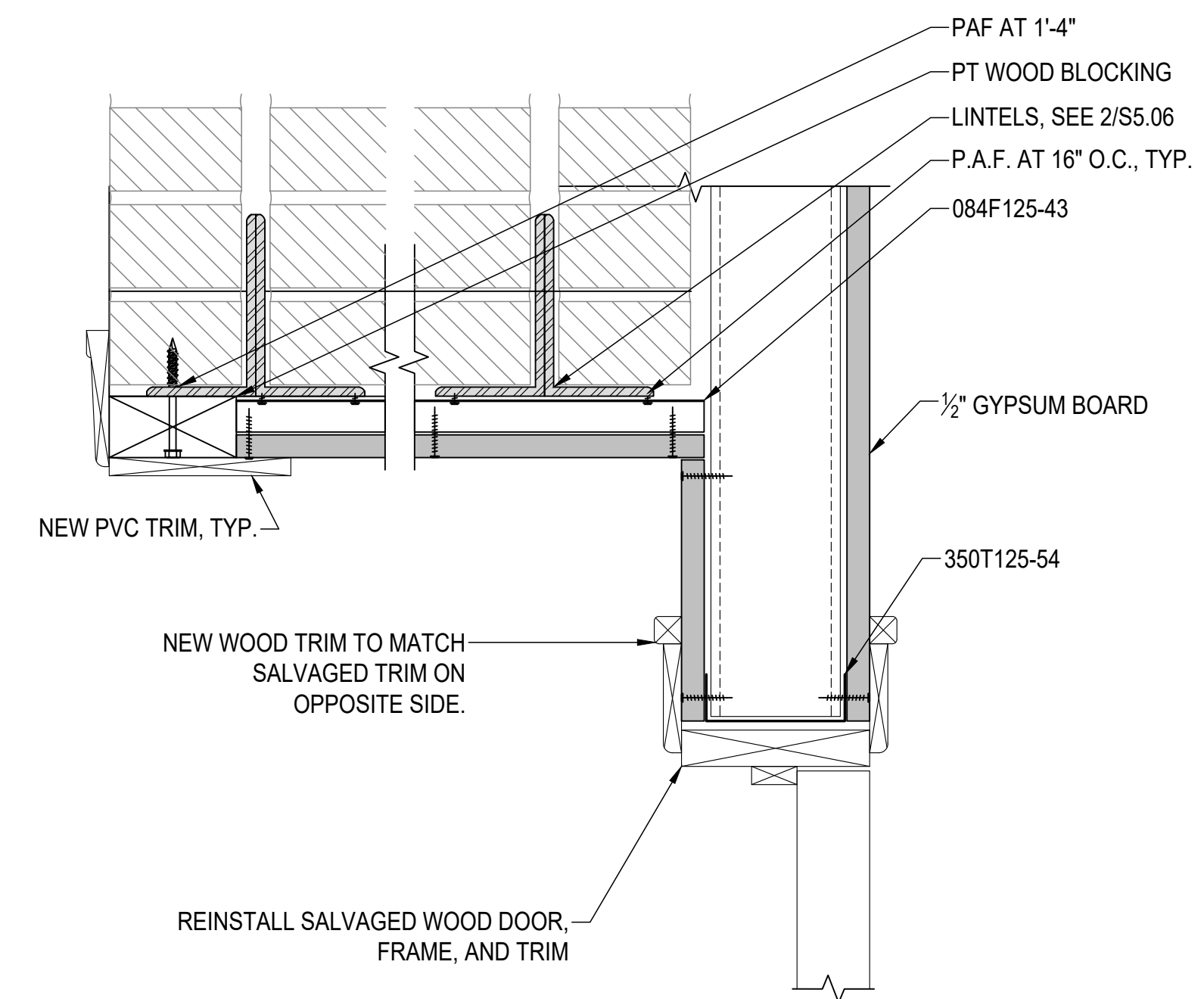
1
A5.10 HEAD DETAIL AT
STORAGE ROOM DOORWAYS

SCALE: 3"=1'-0"



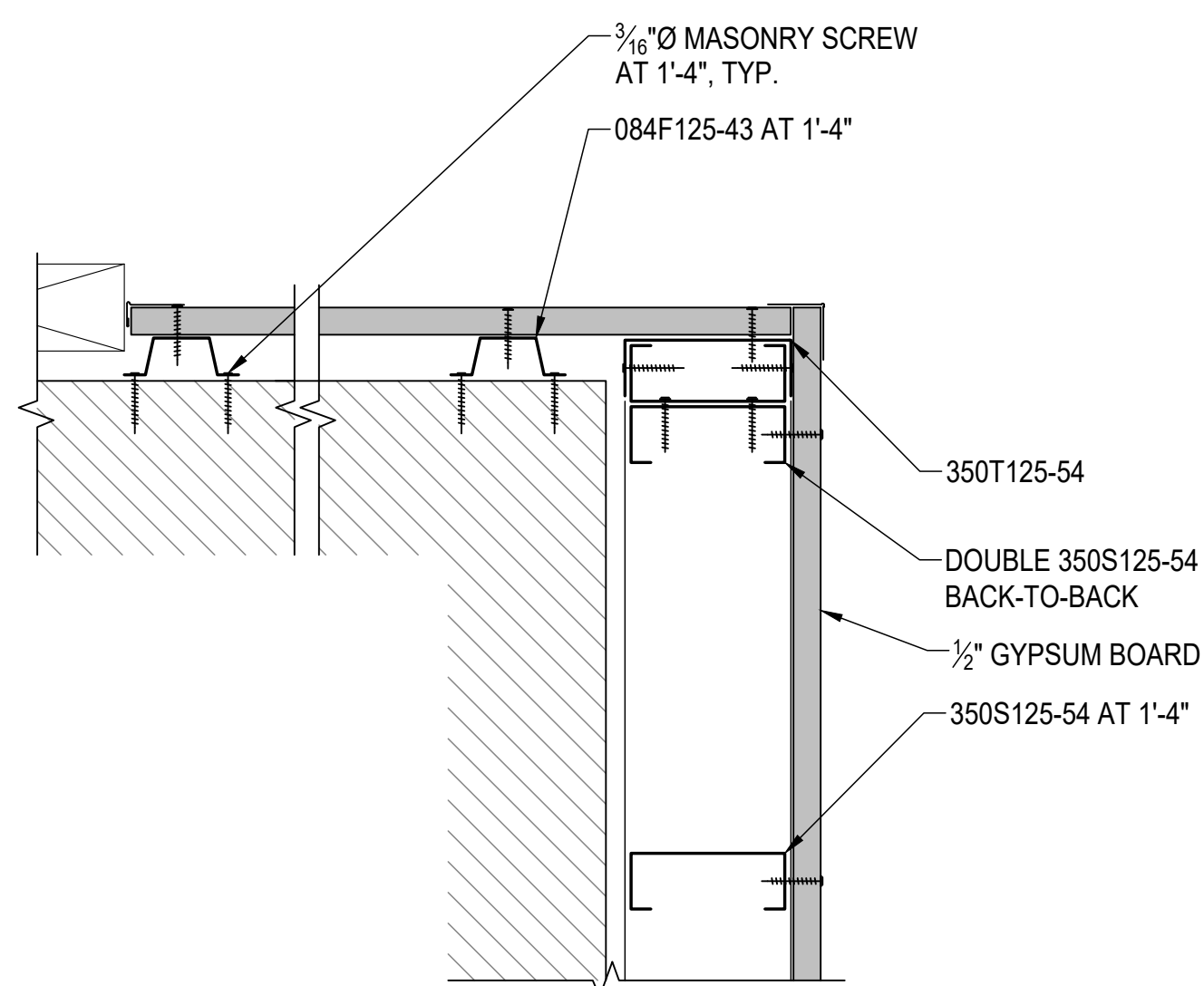
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A5.10 HEAD DETAIL AT CLOSETS

SCALE: 3"=1'-0"



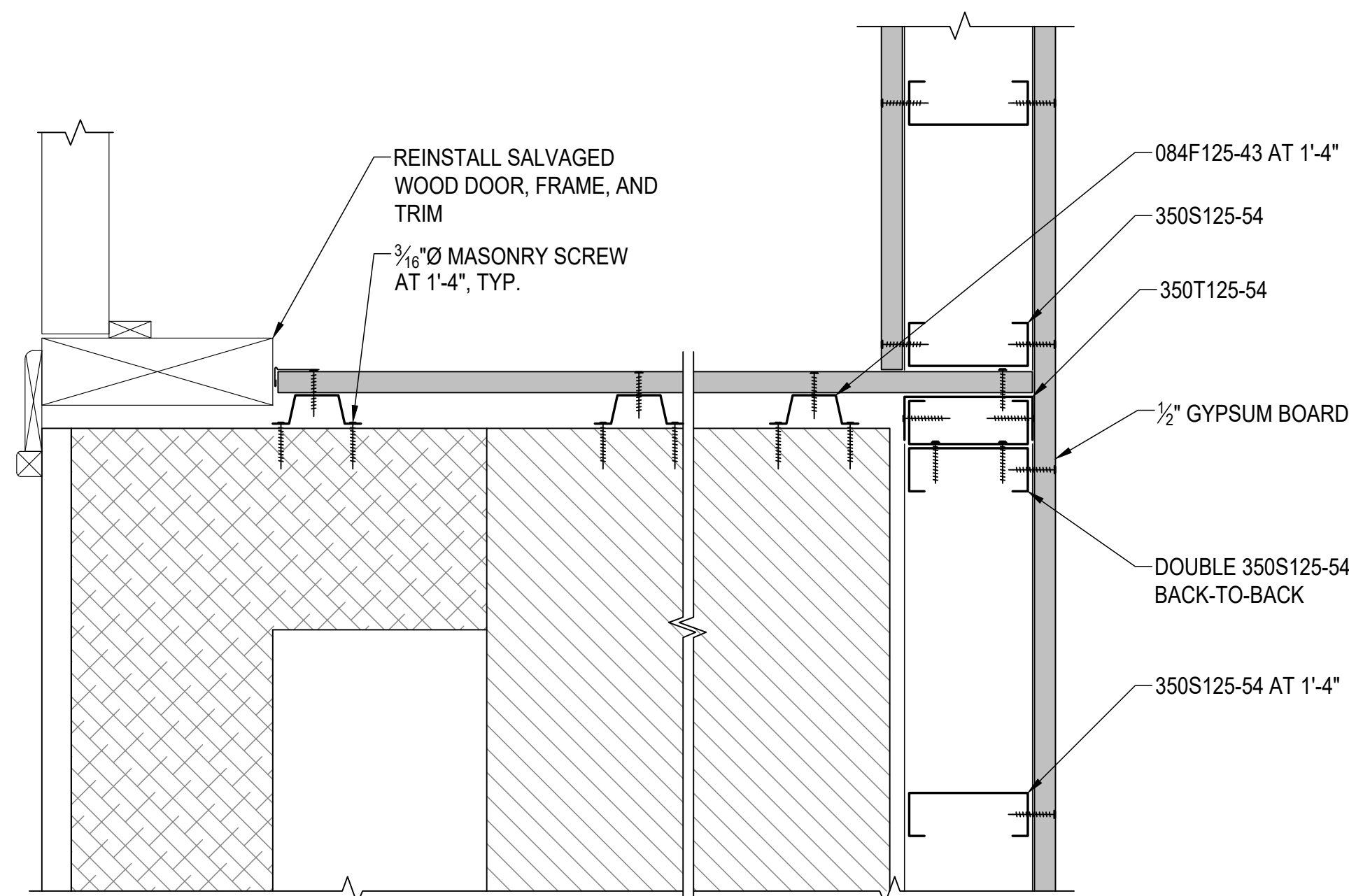
3
A5.10 HEAD DETAIL AT
READING ROOM DOORWAY

SCALE: 3"=1'-0"



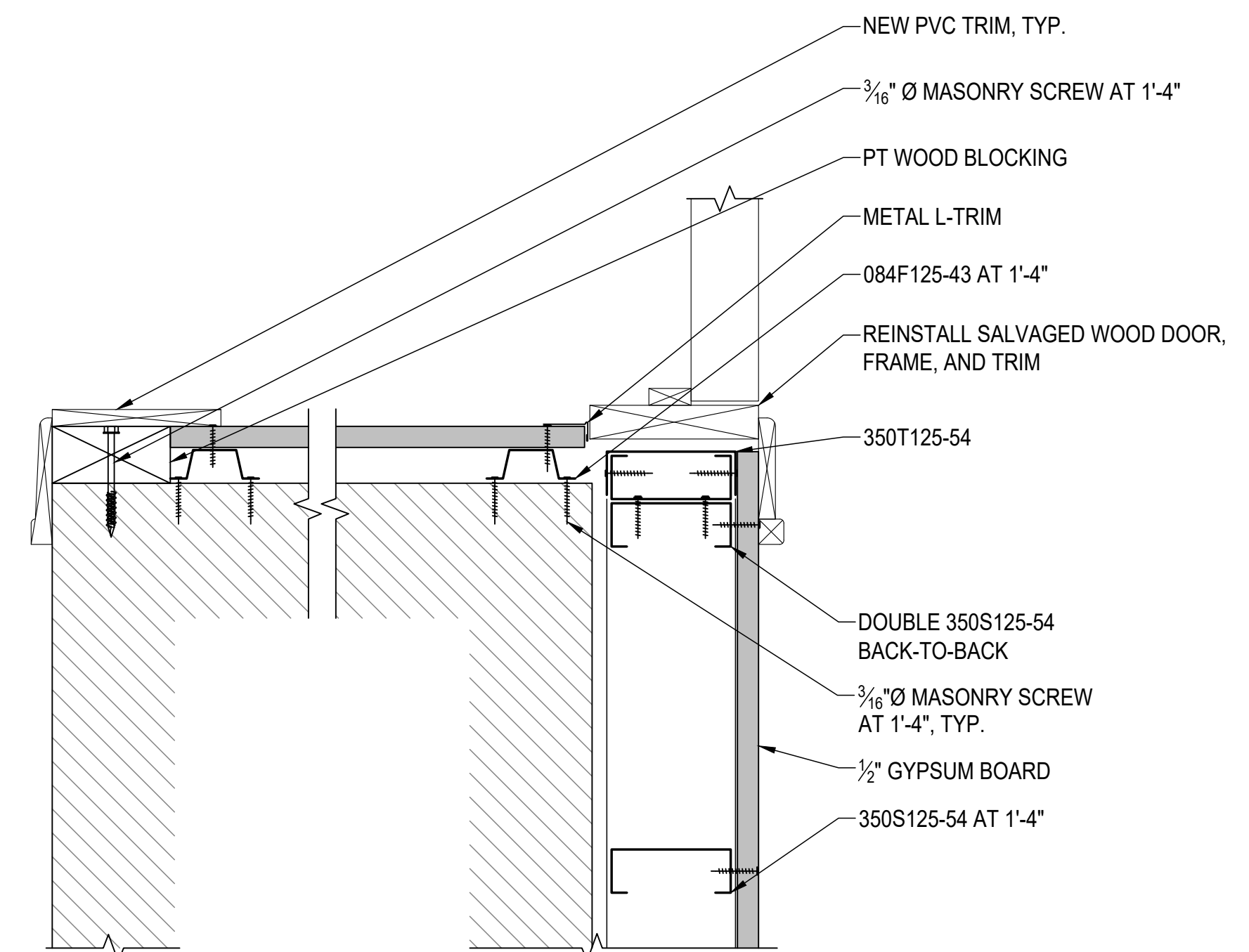
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A5.10 JAMB DETAIL AT
STORAGE ROOM DOORWAYS

SCALE: 3"=1'-0"



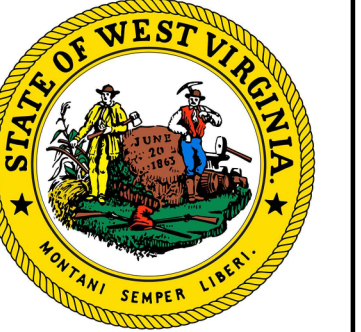
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A5.10 JAMB DETAIL AT CLOSETS

SCALE: 3"=1'-0"

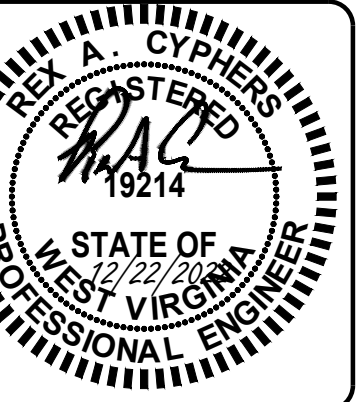


6
A5.10 JAMB DETAIL AT
READING ROOM DOORWAY

SCALE: 3"=1'-0"



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NORTH STAIR REPAIR - PHASE II

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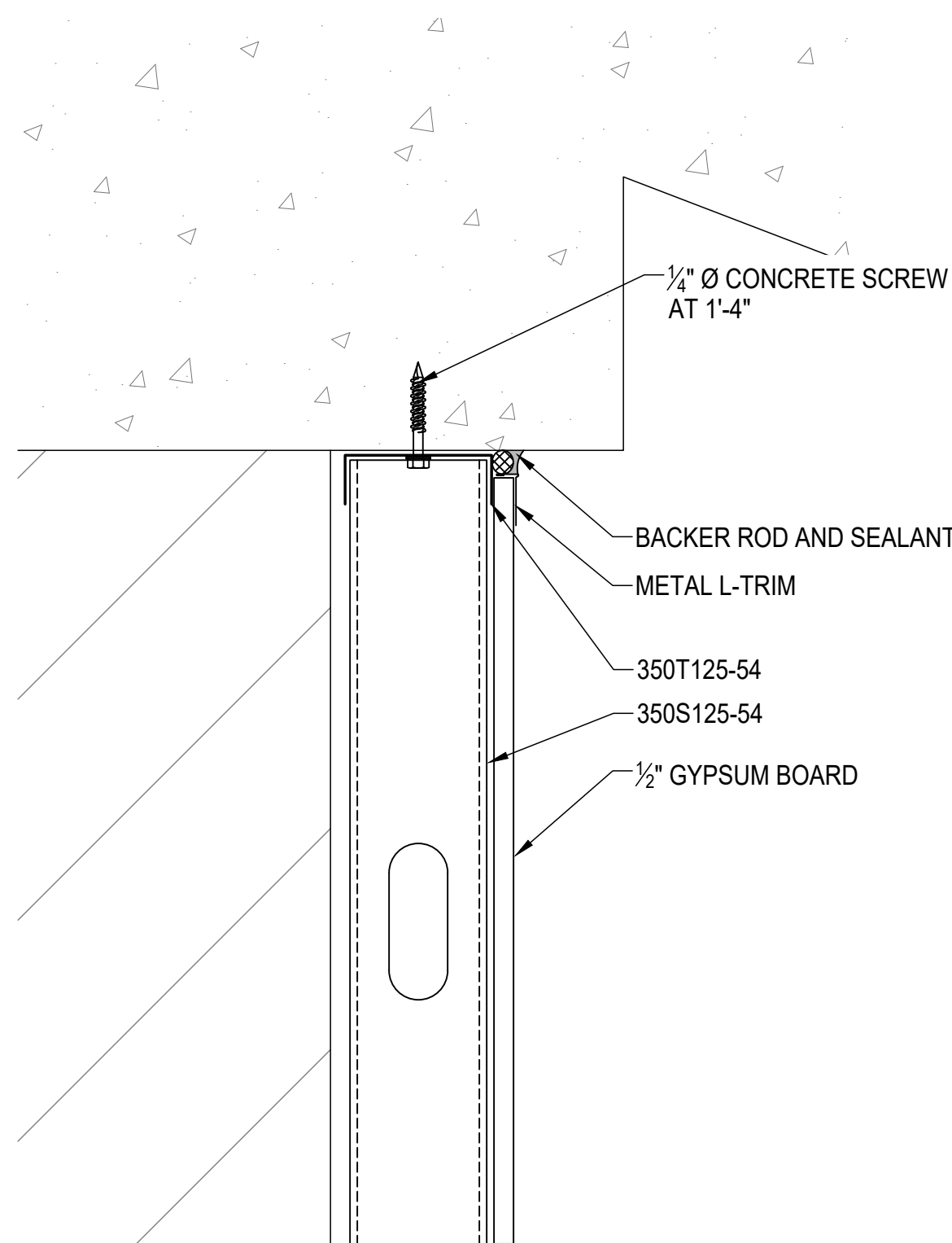
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WDP JOB NUMBER	21060
DESIGN	PBD
DRAFT	DT
CHECK	RAC

SHEET NAME

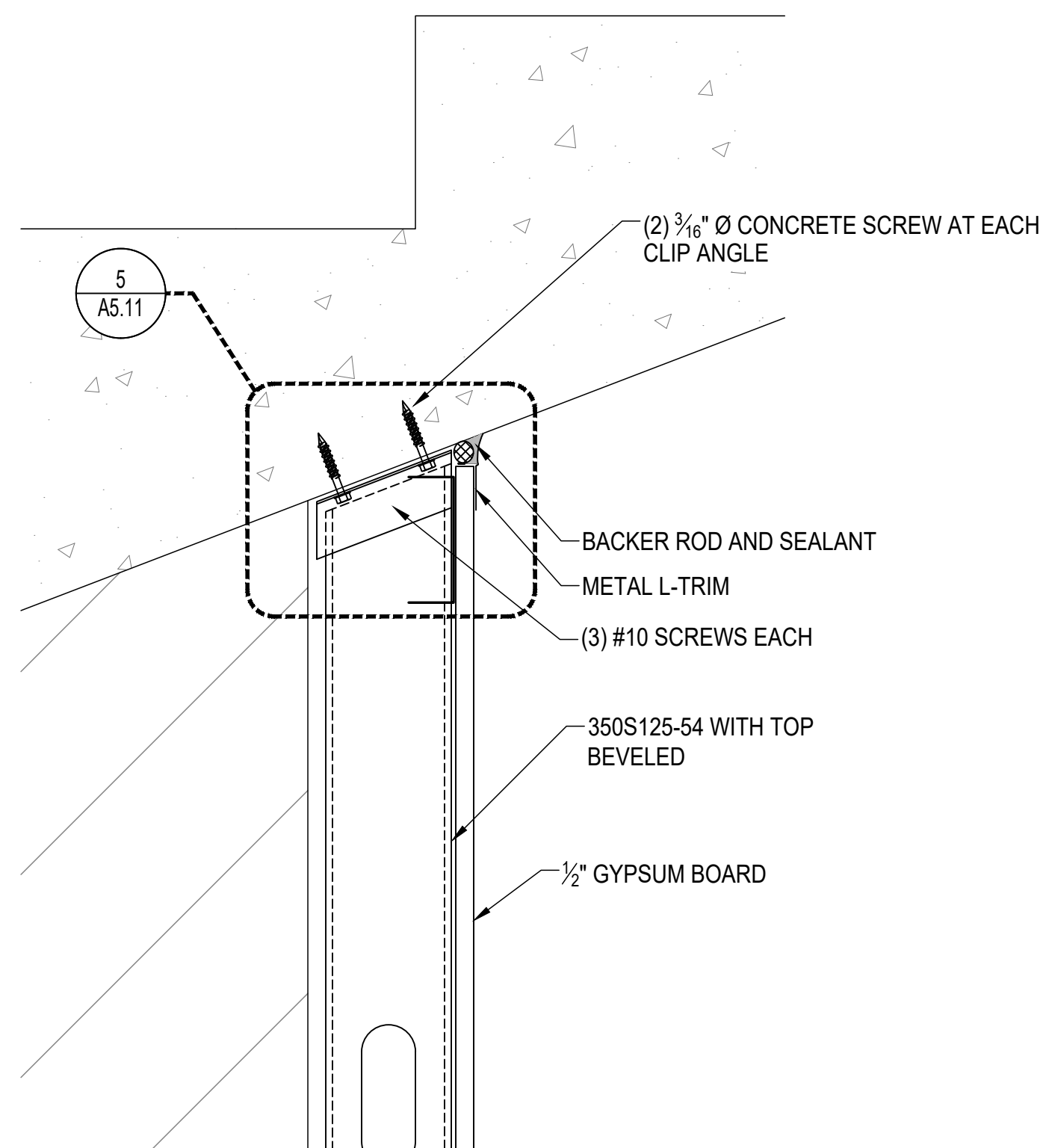
INTERIOR
FRAMING
DETAILS

SHEET NUMBER

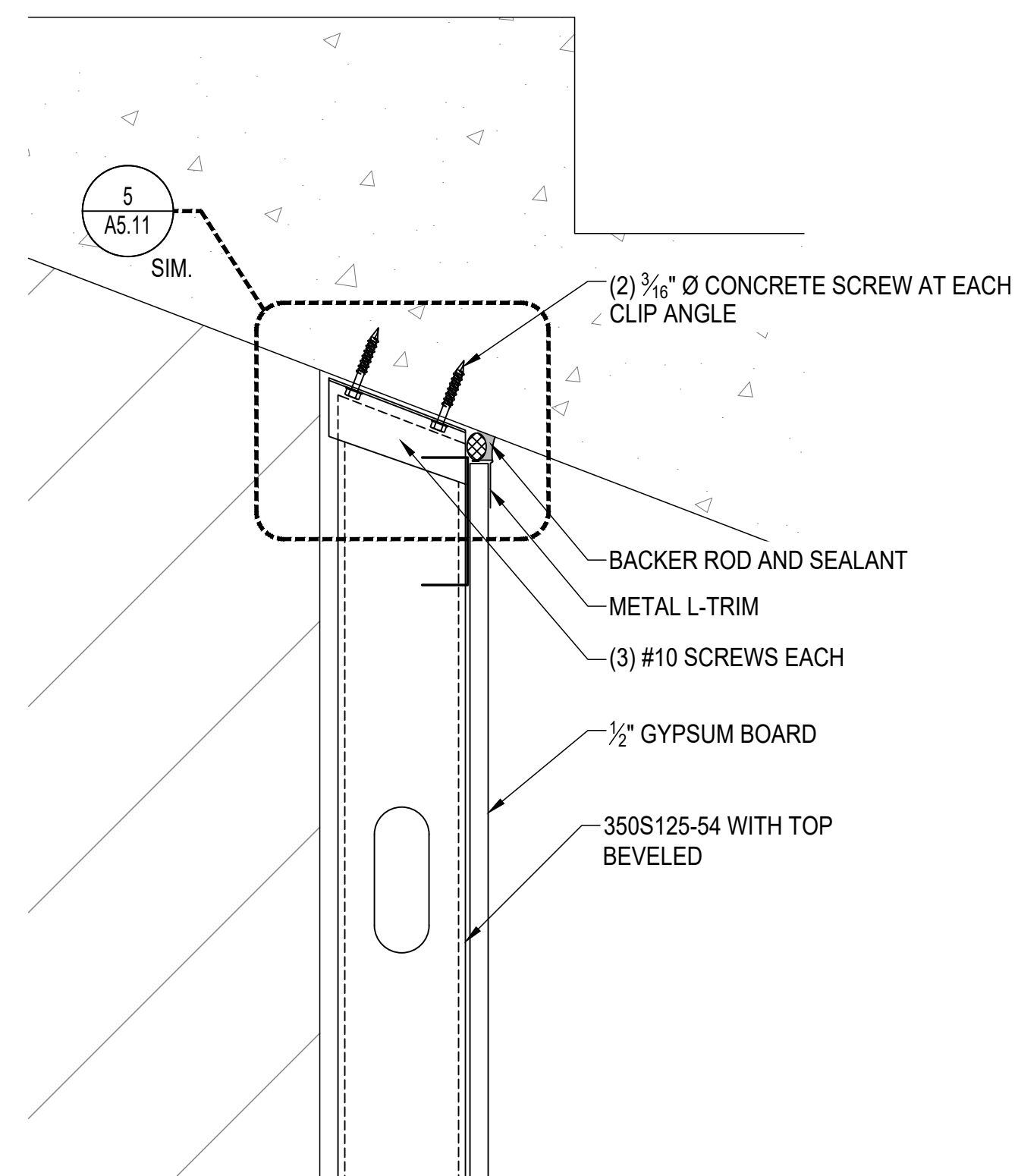
A5.10



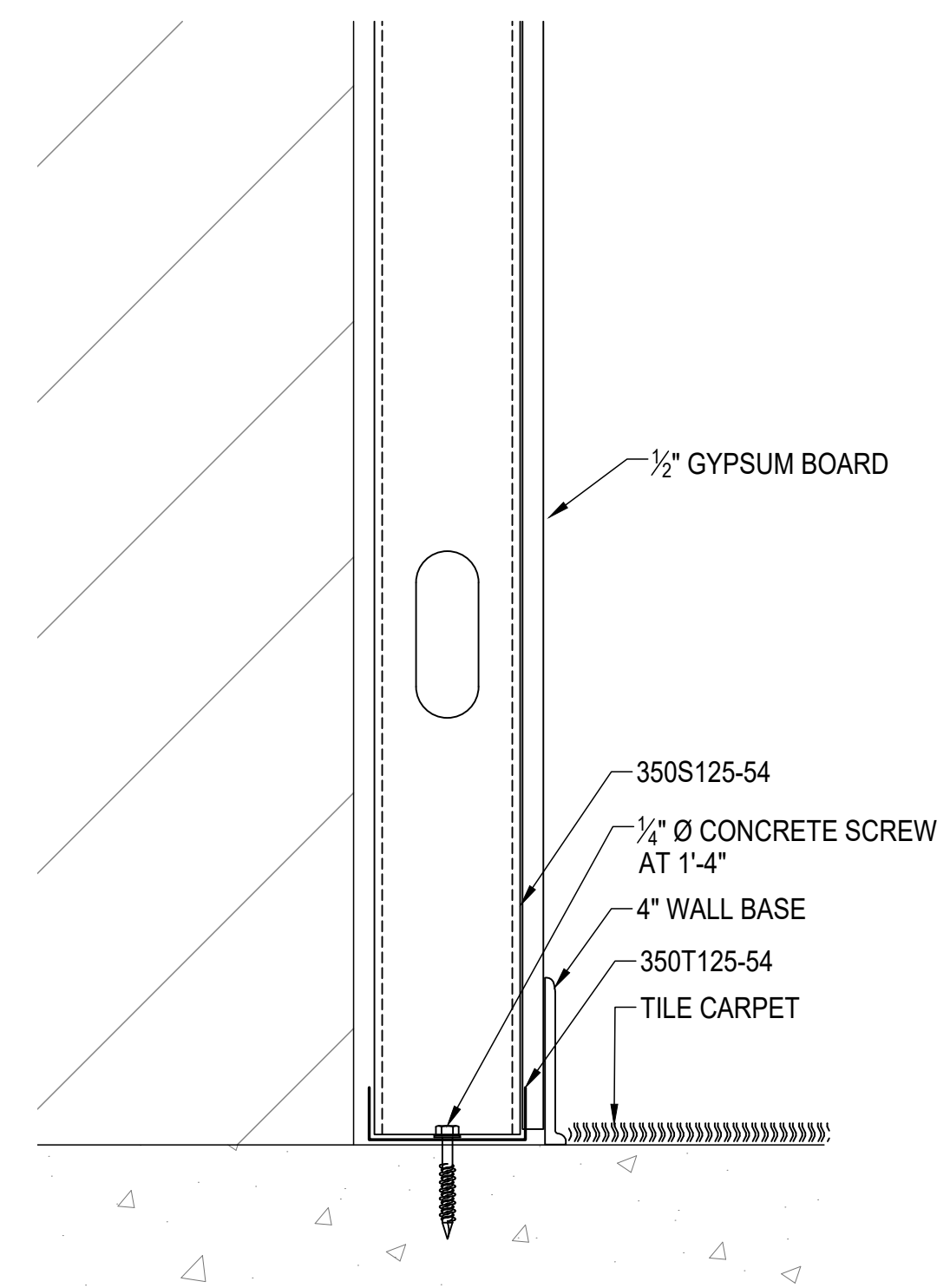
1
A5.12
FRAMING DETAIL
SCALE: 3"=1'-0"



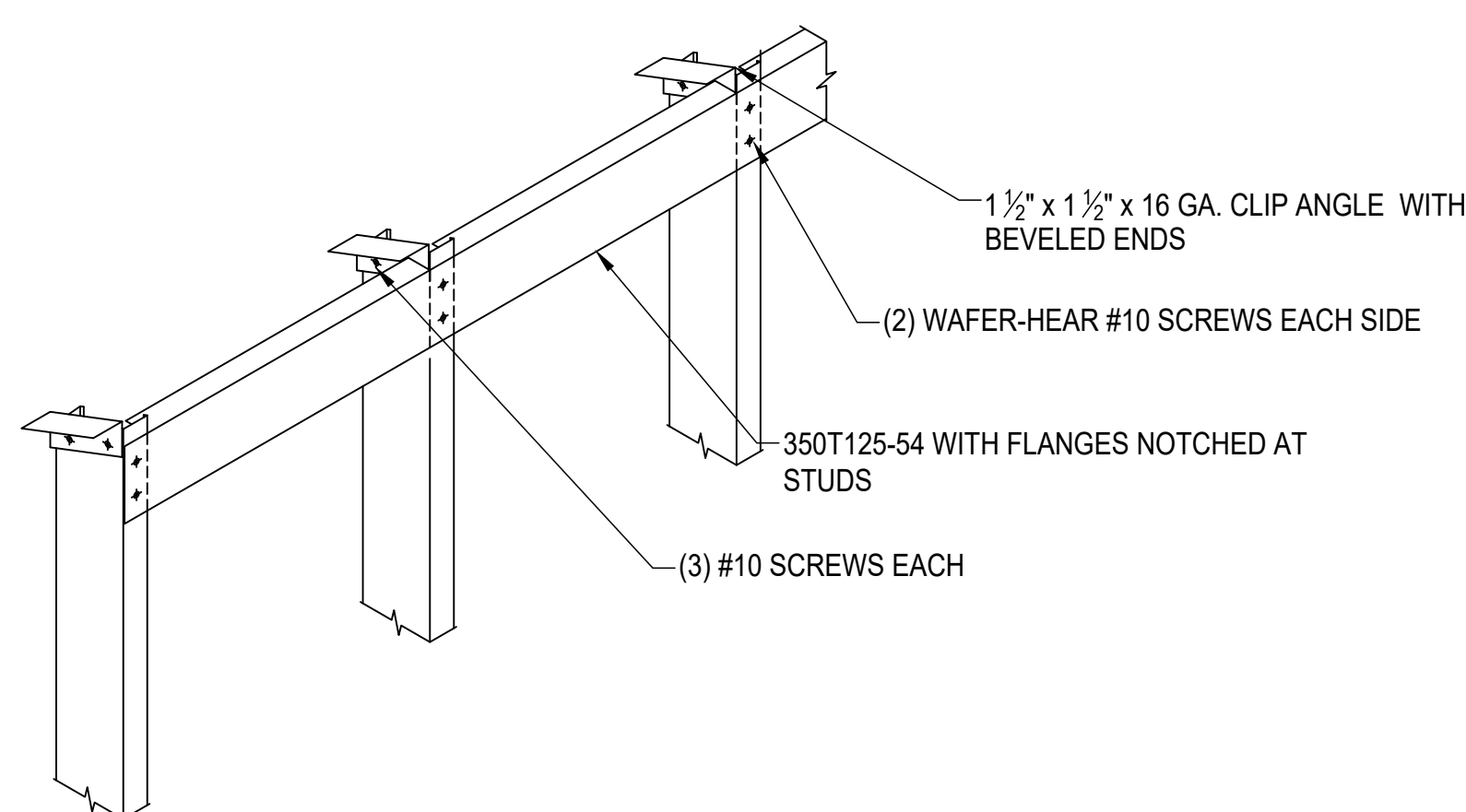
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A5.12
FRAMING DETAIL
SCALE: 3"=1'-0"



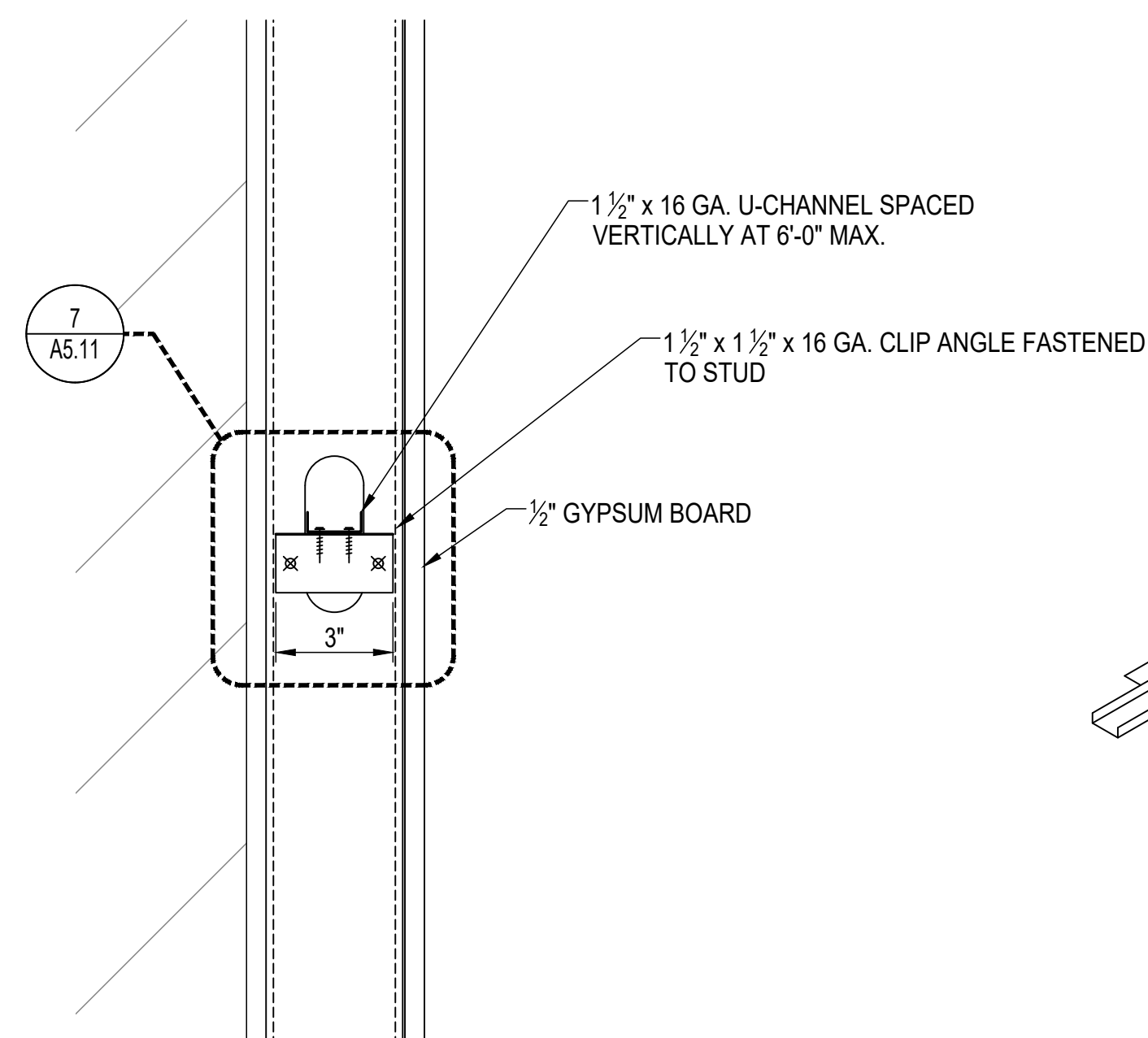
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A5.12
FRAMING DETAIL
SCALE: 3"=1'-0"



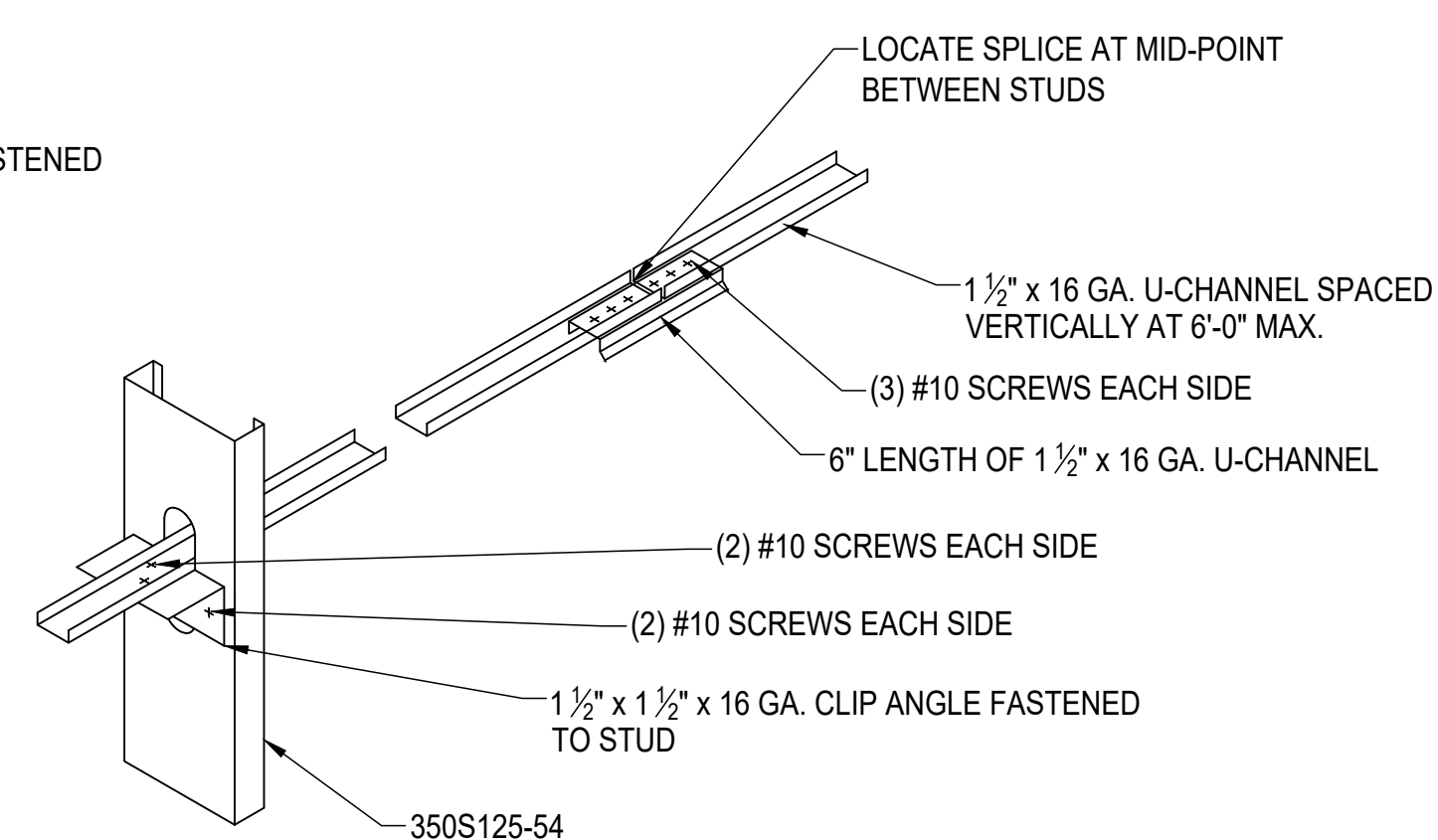
4
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FRAMING DETAIL
SCALE: 3"=1'-0"



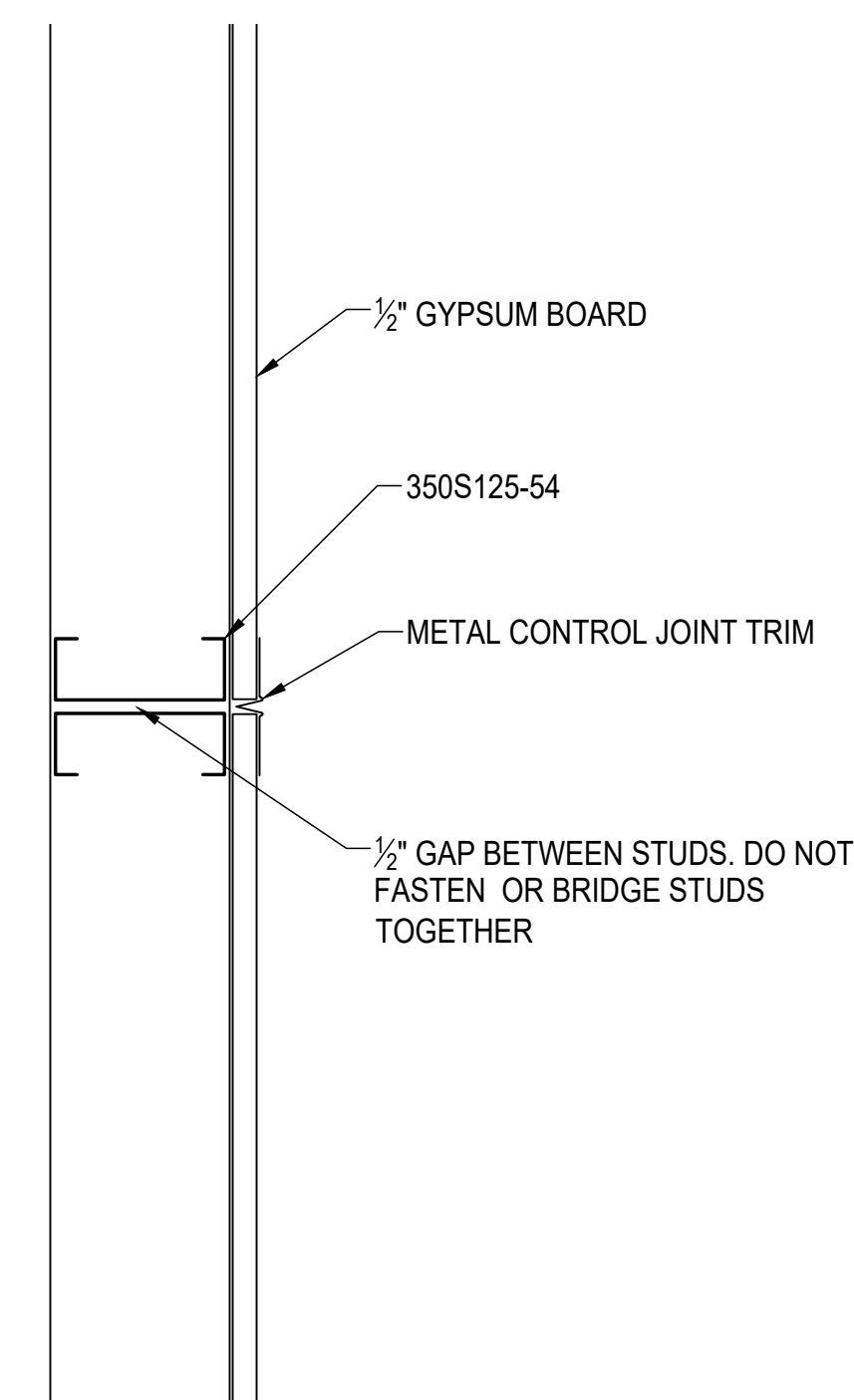
5
A5.12
**FRAMING ATTACHMENT
TO SLOPING SOFFIT DETAIL**
SCALE: ISOMETRIC



6
A5.12
BRIDGING DETAIL
SCALE: ISOMETRIC



7
A5.12
BRIDGING DETAIL
SCALE: ISOMETRIC



8
A5.12
**GYPSUM BOARD
CONTROL JOINT DETAIL**
SCALE: 3"=1'-0"



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REVISIONS

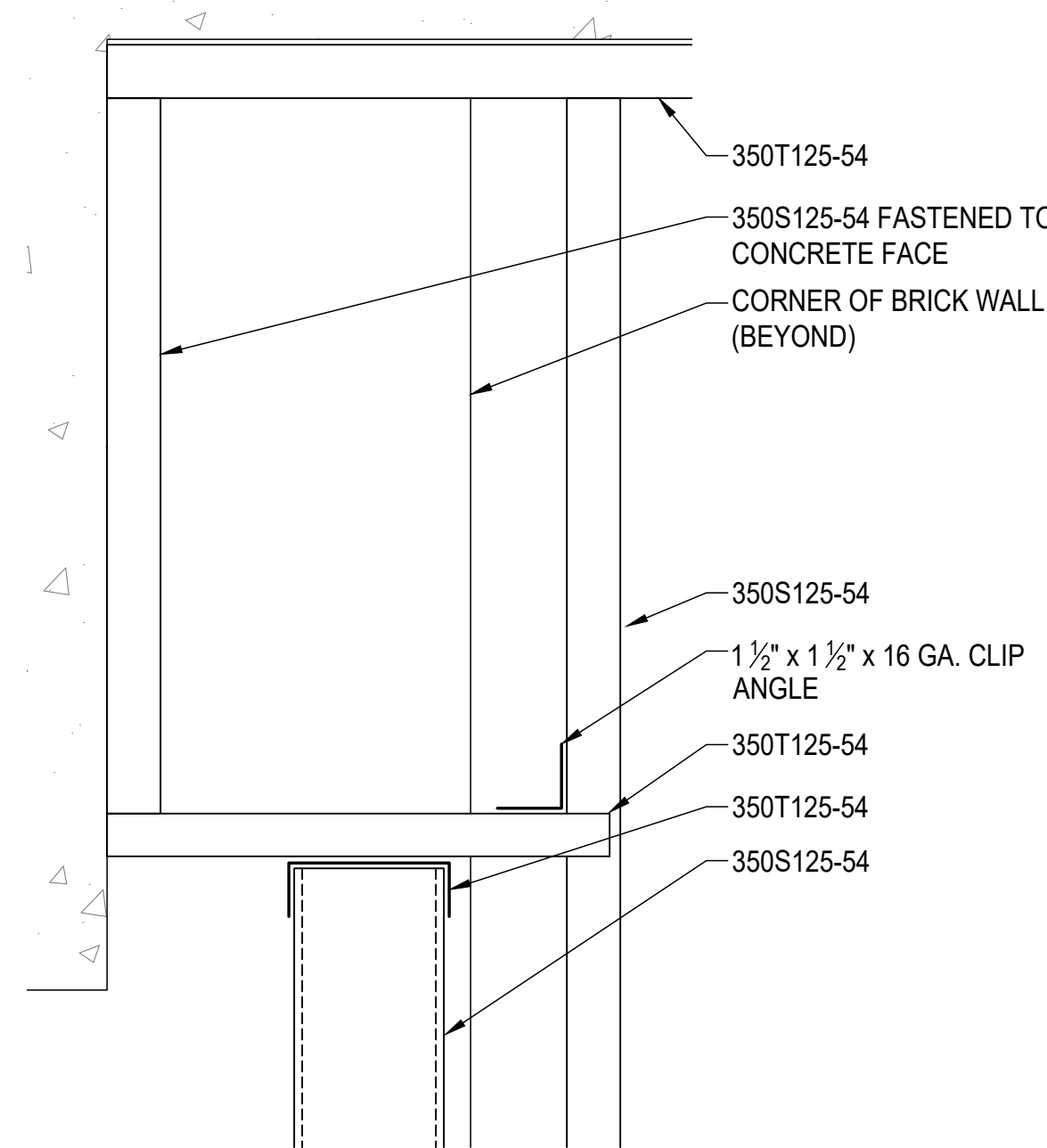
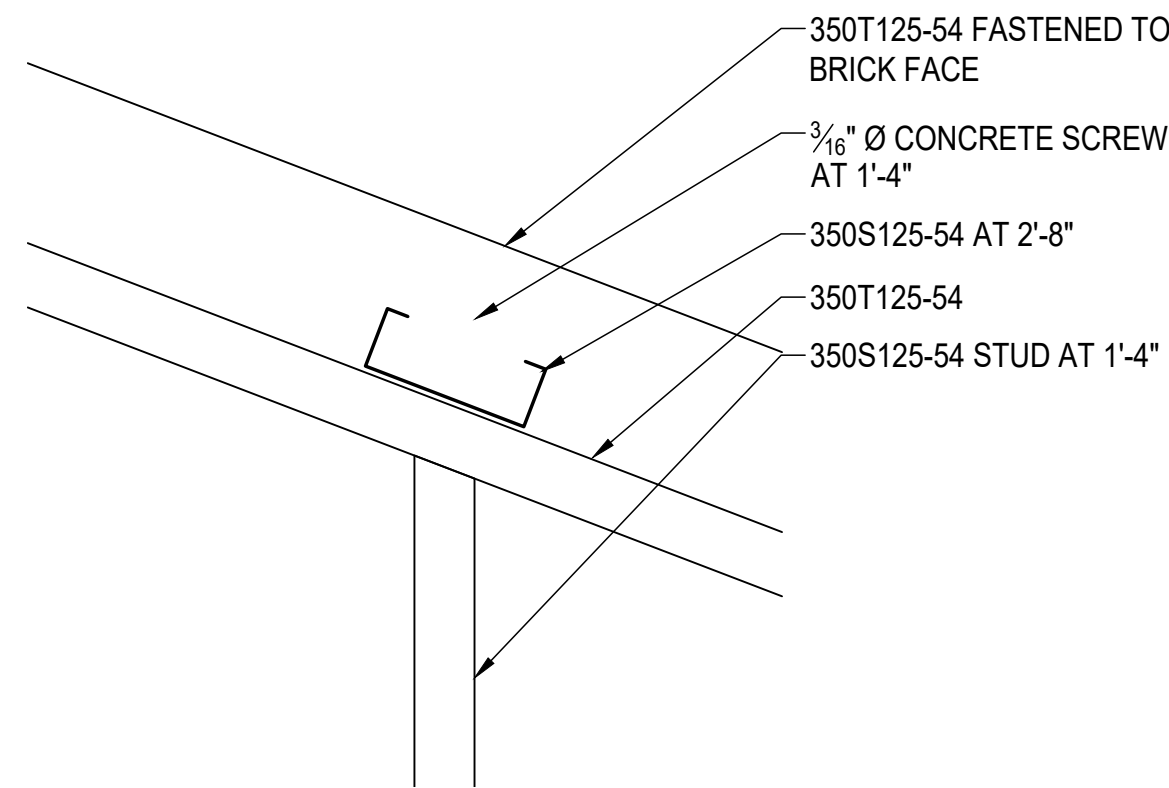
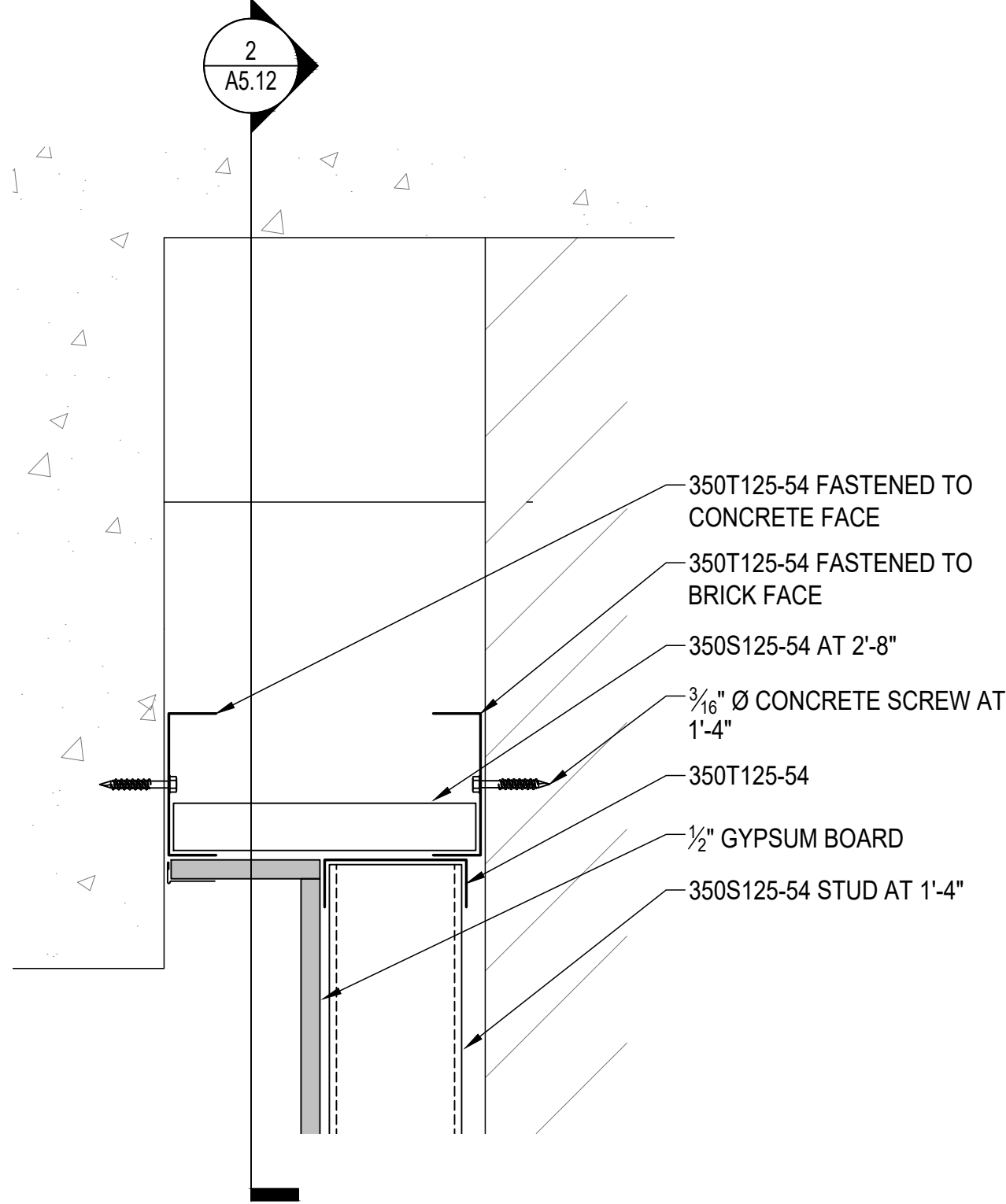
SUBMISSION DATE	12/22/22
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DRAFT	DT
CHECK	RAC

SHEET NAME

**INTERIOR
FRAMING
DETAILS**

SHEET NUMBER

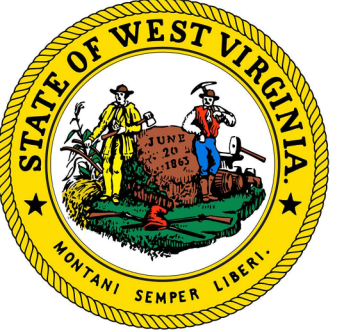
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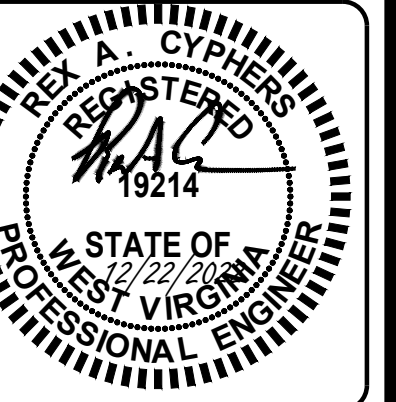
1
A5.12
FRAMING DETAIL
SCALE: 3"=1'-0"

2
A5.12
FRAMING DETAIL
SCALE: 3"=1'-0"

3
A5.12
FRAMING DETAIL
SCALE: 3"=1'-0"



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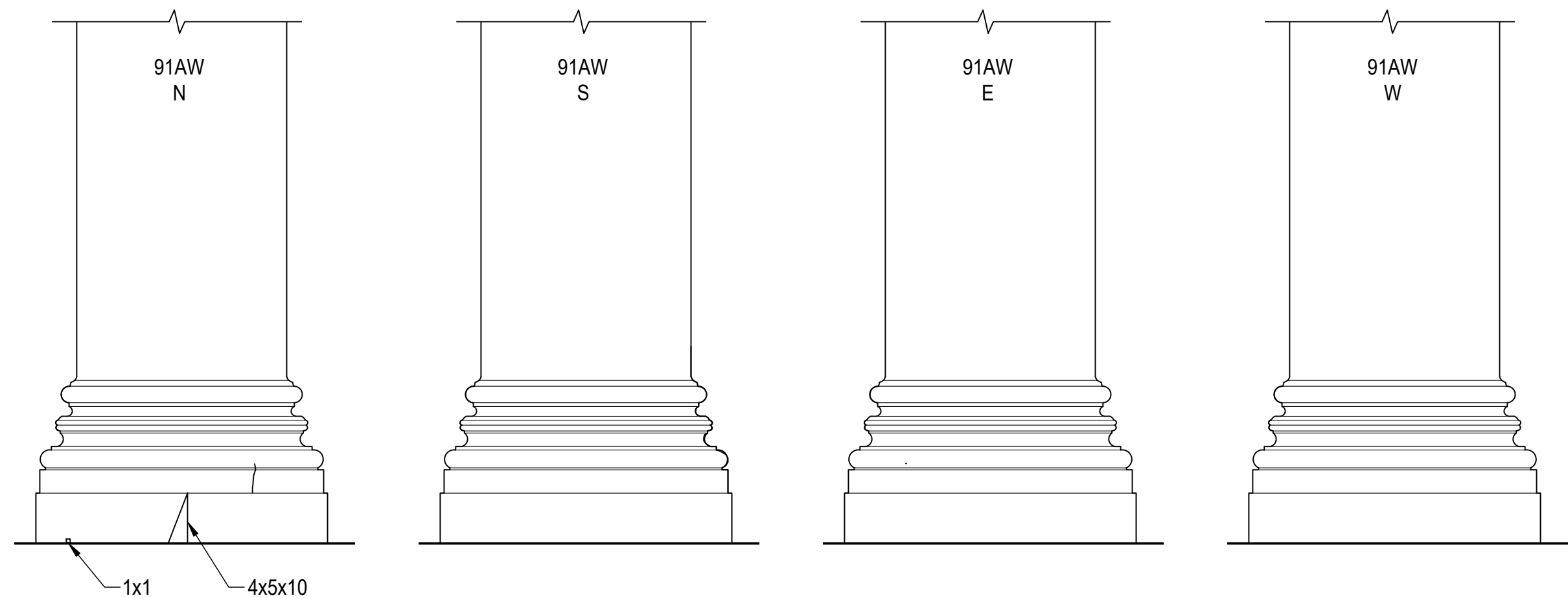
WEST VIRGINIA STATE CAPITOL BUILDING
 CHARLESTON, WV
 NORTH STAIR REPAIR - PHASE II

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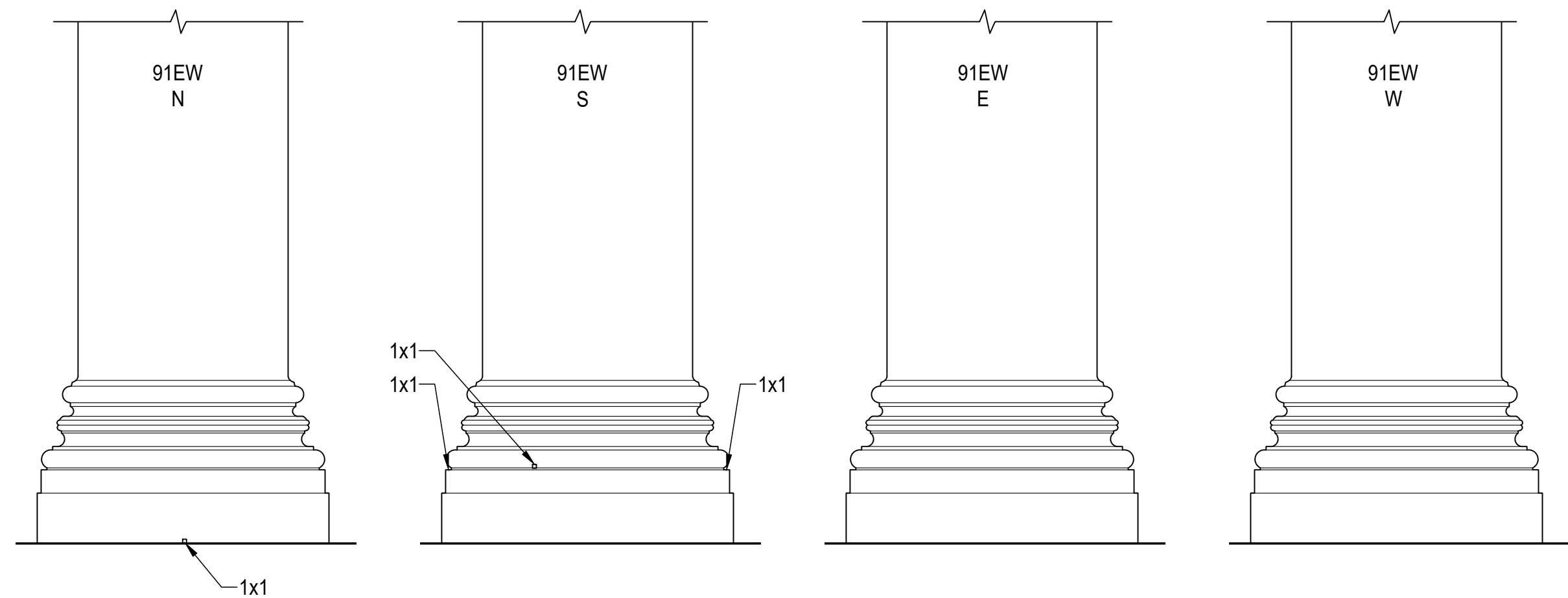
SUBMISSION DATE	12/22/22
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SHEET NAME
 INTERIOR
 FRAMING
 DETAILS

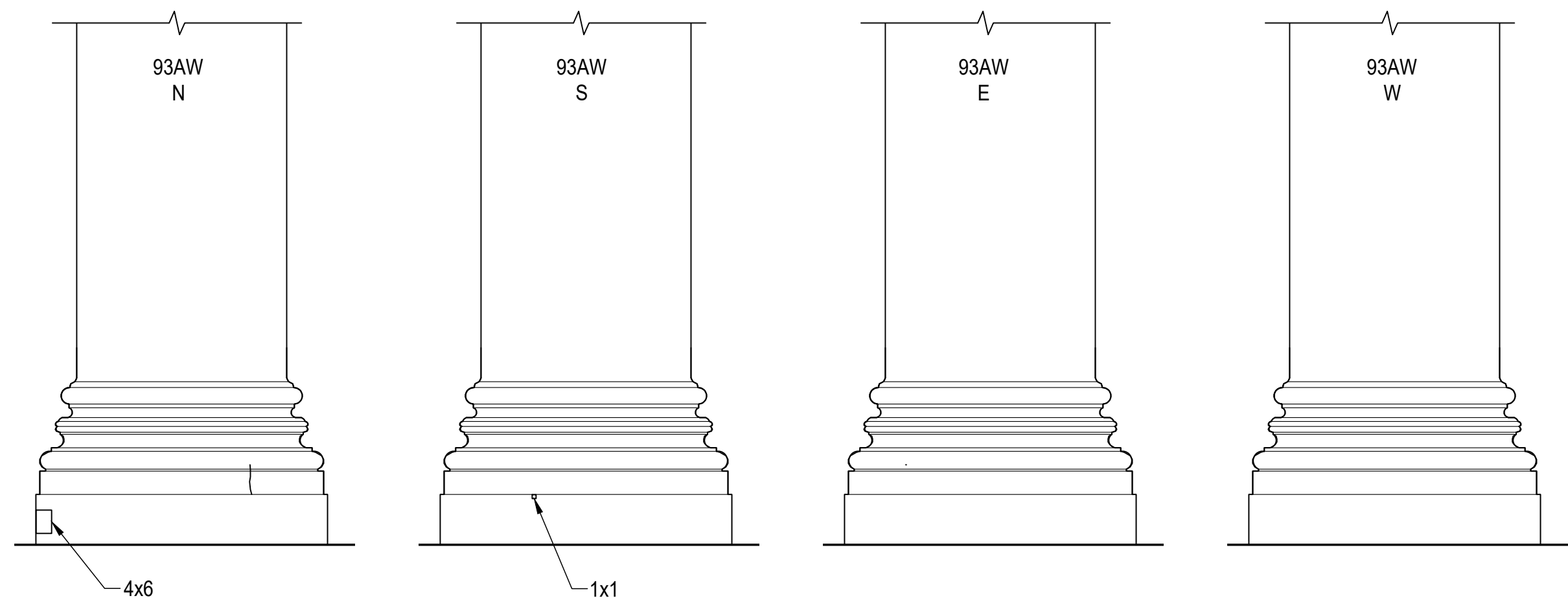
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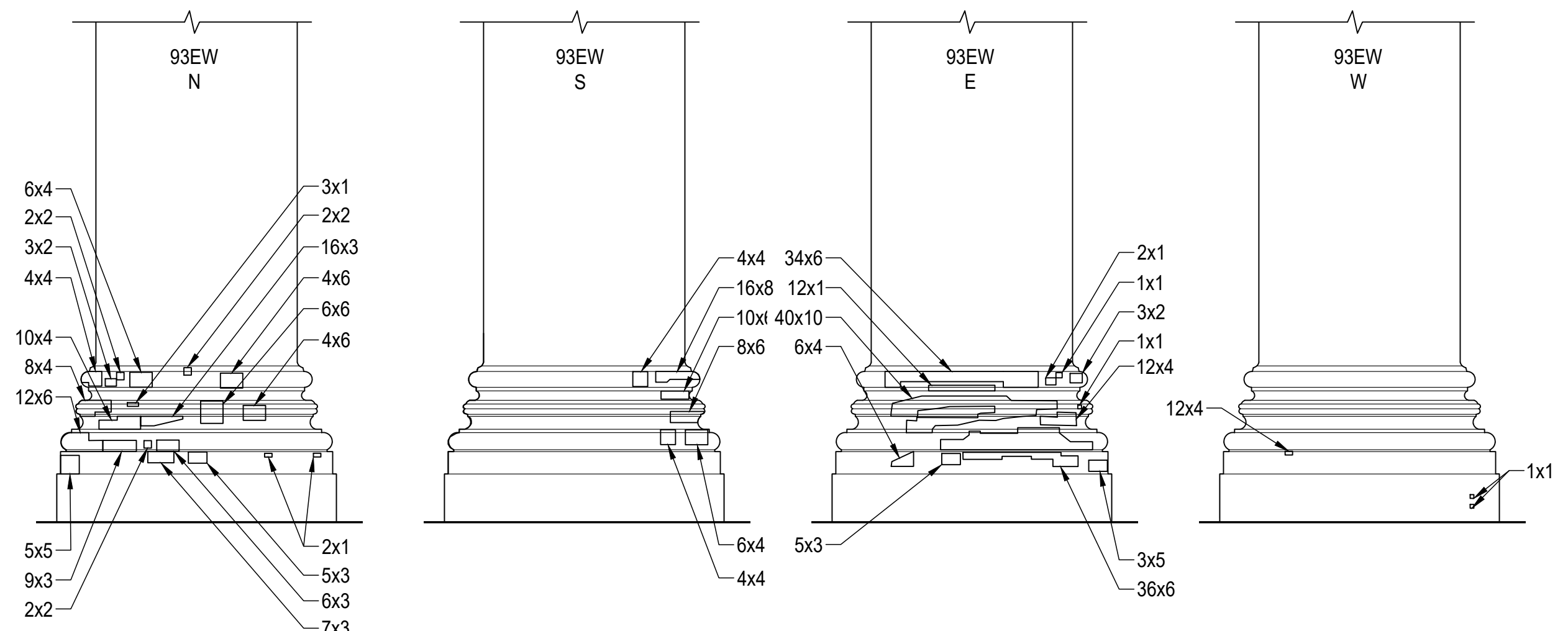
1 COLUMN REPAIR - 91AW
A5.20



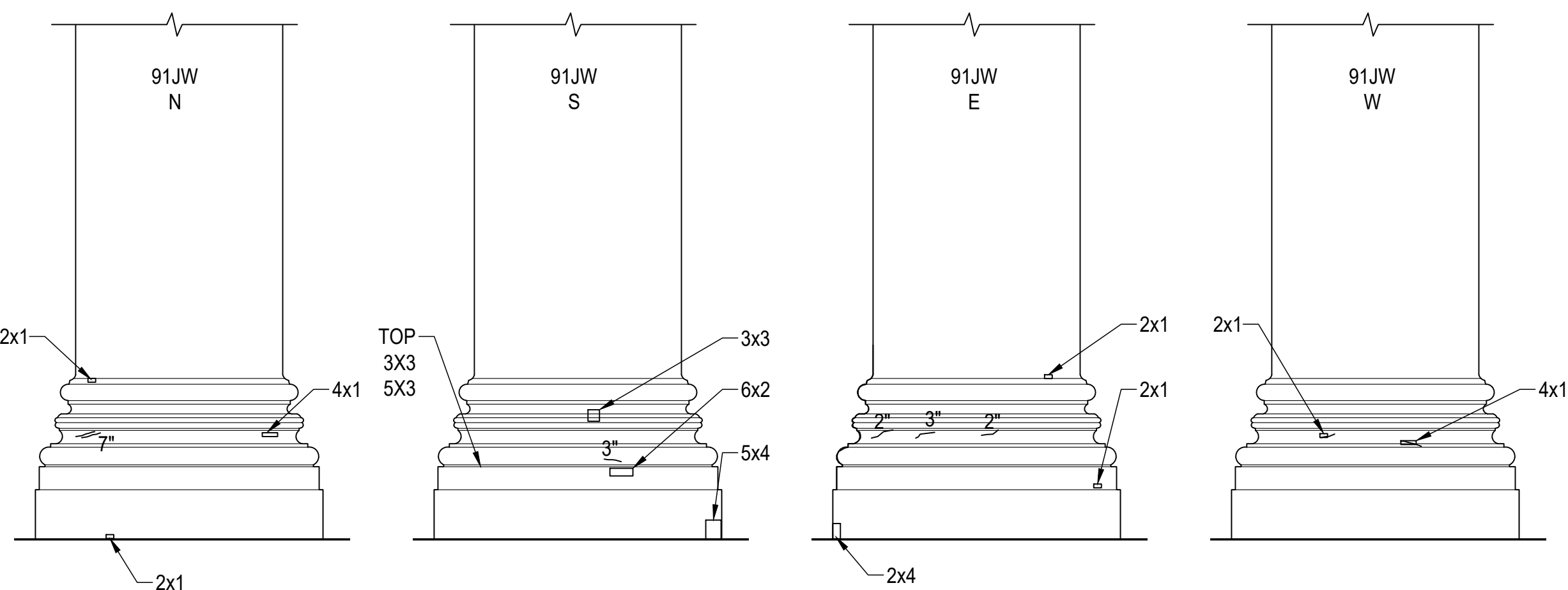
2 COLUMN REPAIR - 91EW
A5.20



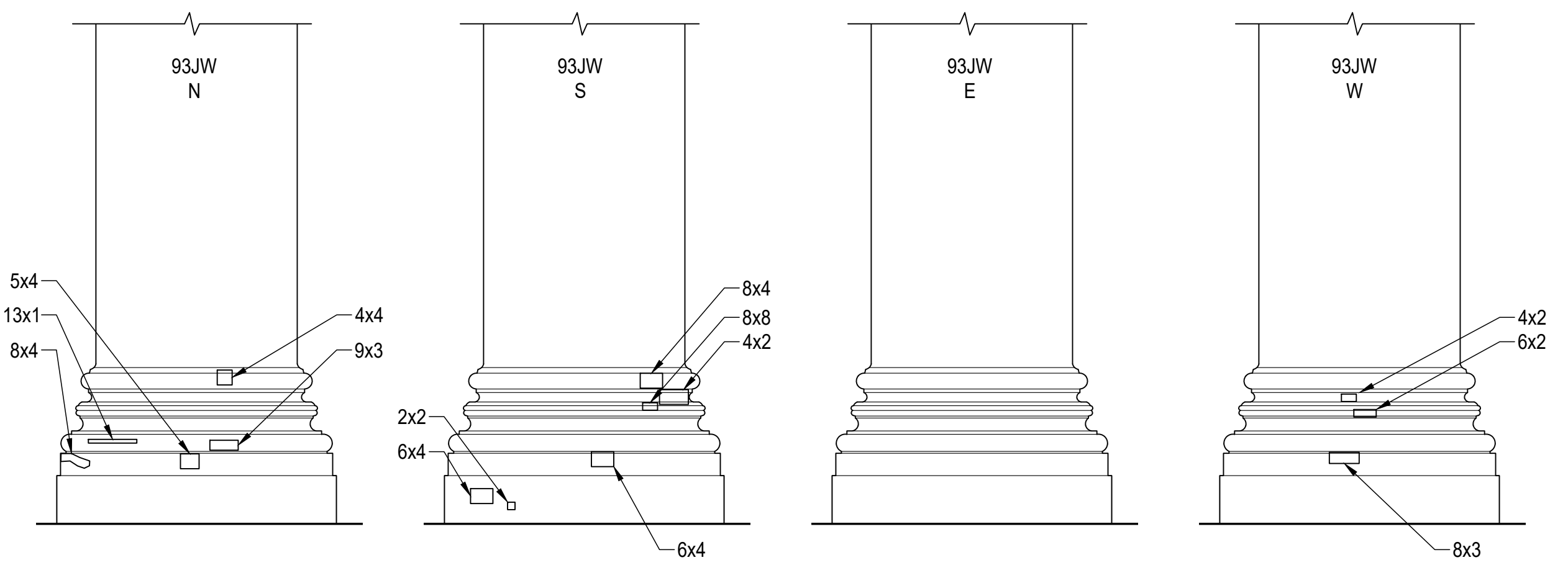
3 COLUMN REPAIR - 93AW
A5.20



4 COLUMN REPAIR - 93EW
A5.20



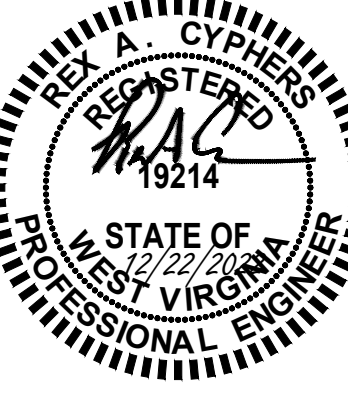
5 COLUMN REPAIR - 91JW
A5.20 SCALE: 3/8"=1'-0"



6 COLUMN REPAIR - 93JW
A5.20 SCALE: 3/8"=1'-0"



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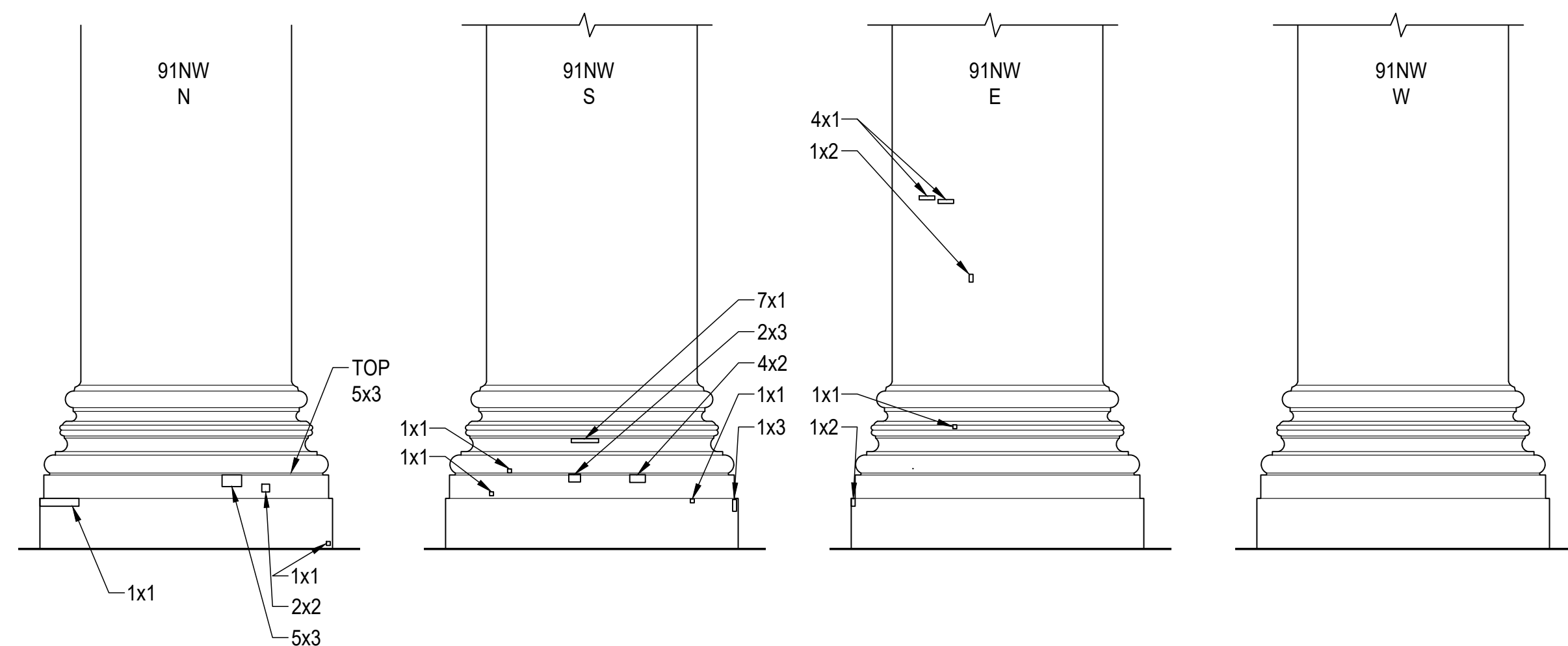
WEST VIRGINIA STATE CAPITOL BUILDING
CHARLESTON, WV
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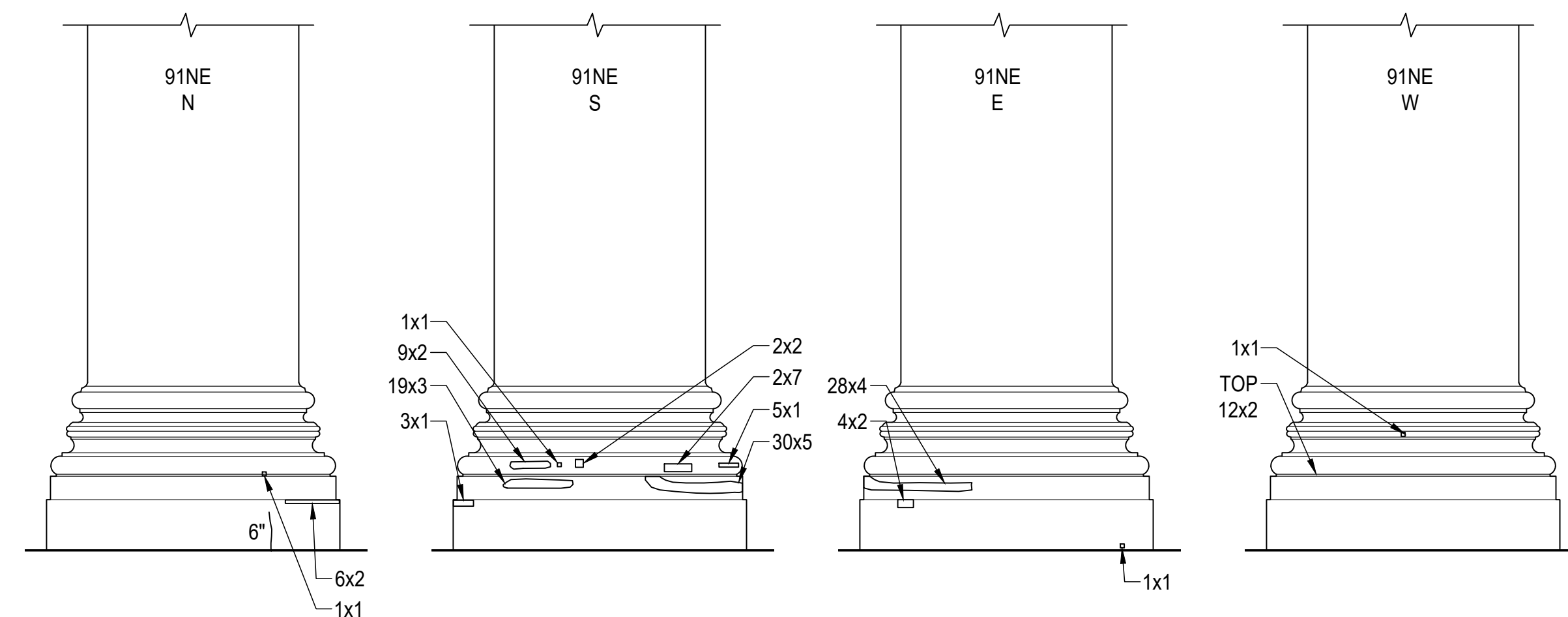
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CHECK	RAC

SHEET NAME
COLUMN REPAIRS

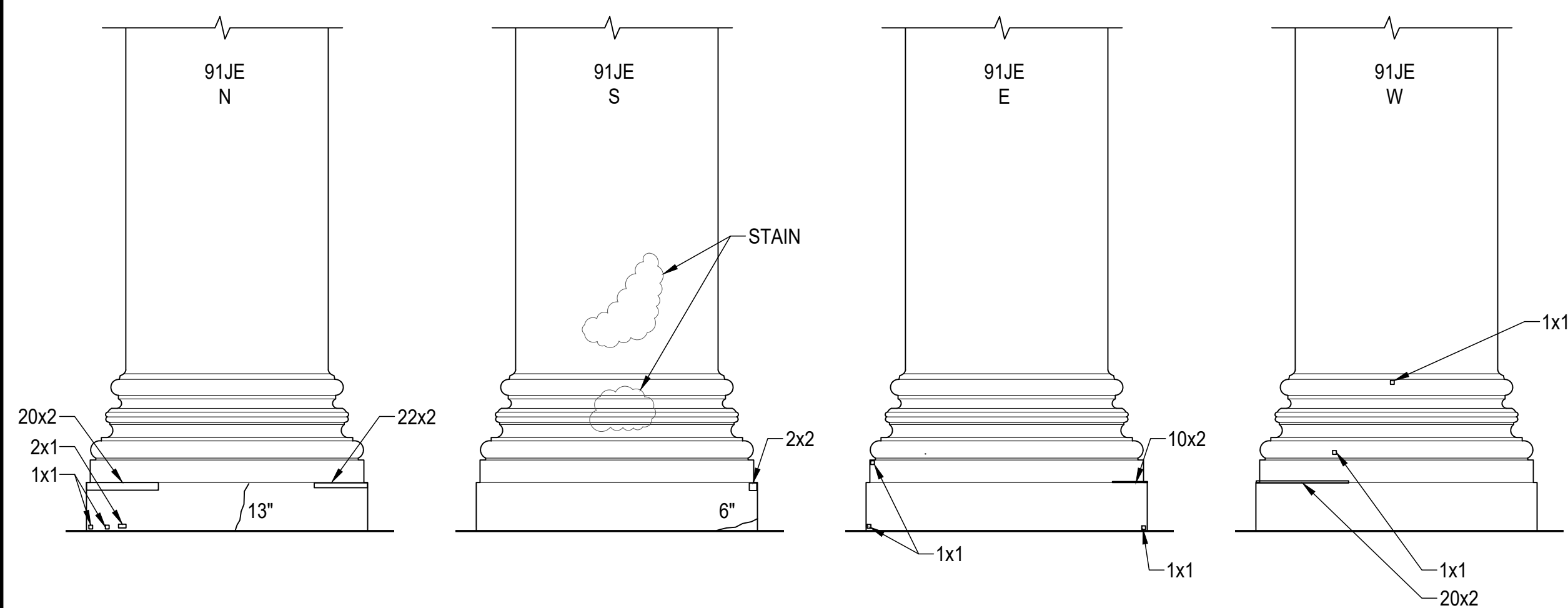
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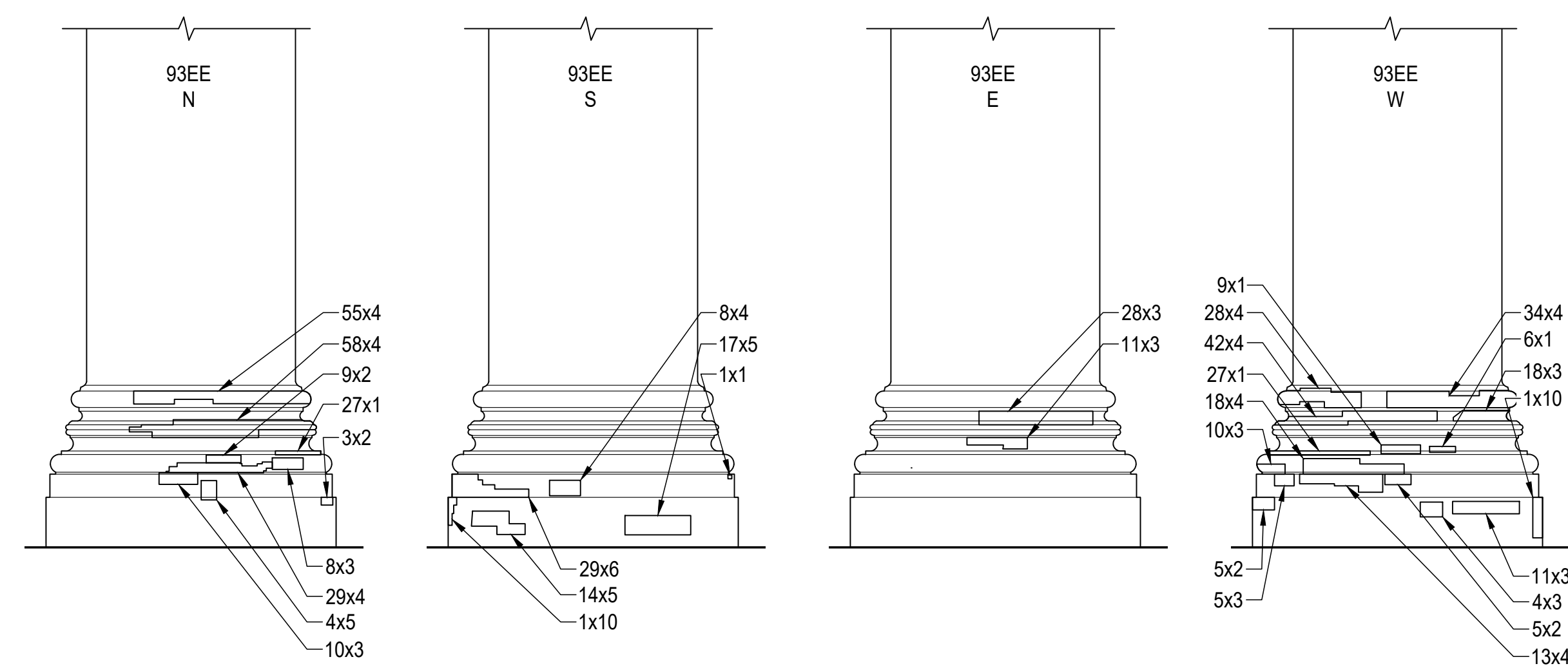
1
A5.21 COLUMN REPAIR - 91NW



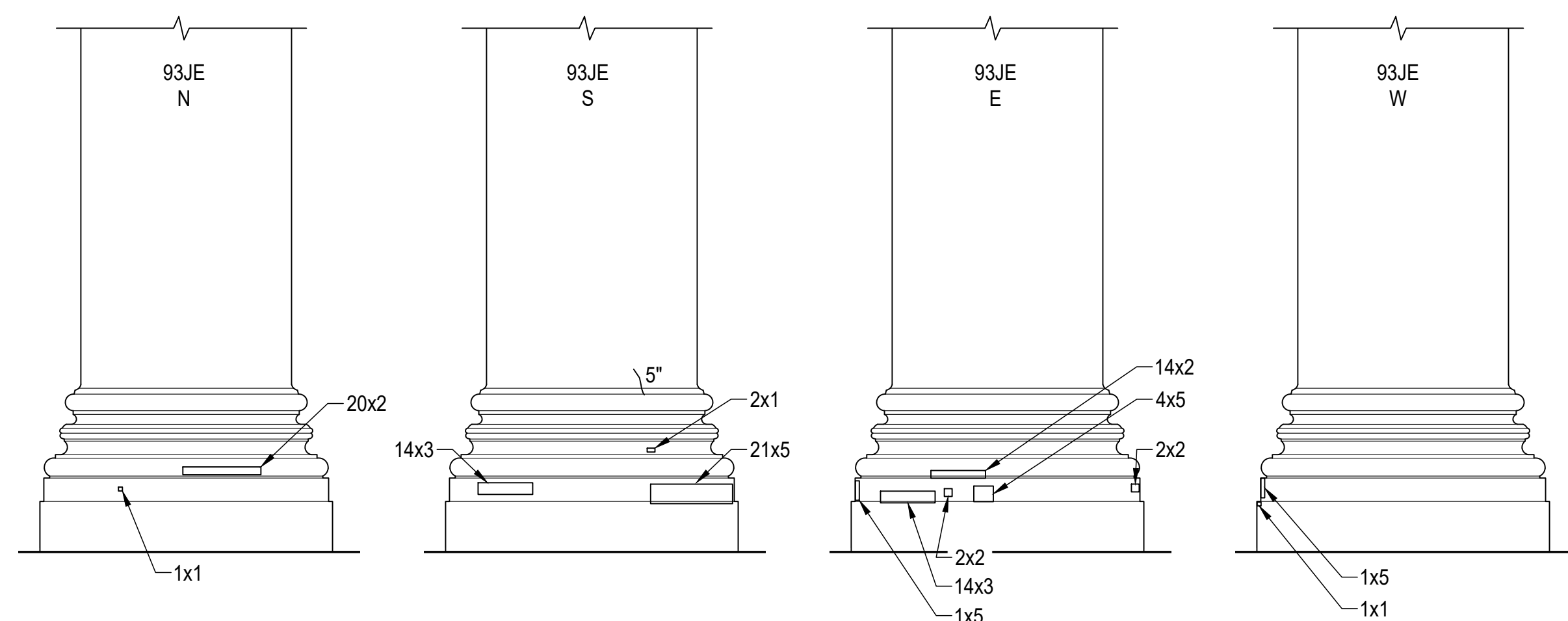
2
A5.21 COLUMN REPAIR - 91NE



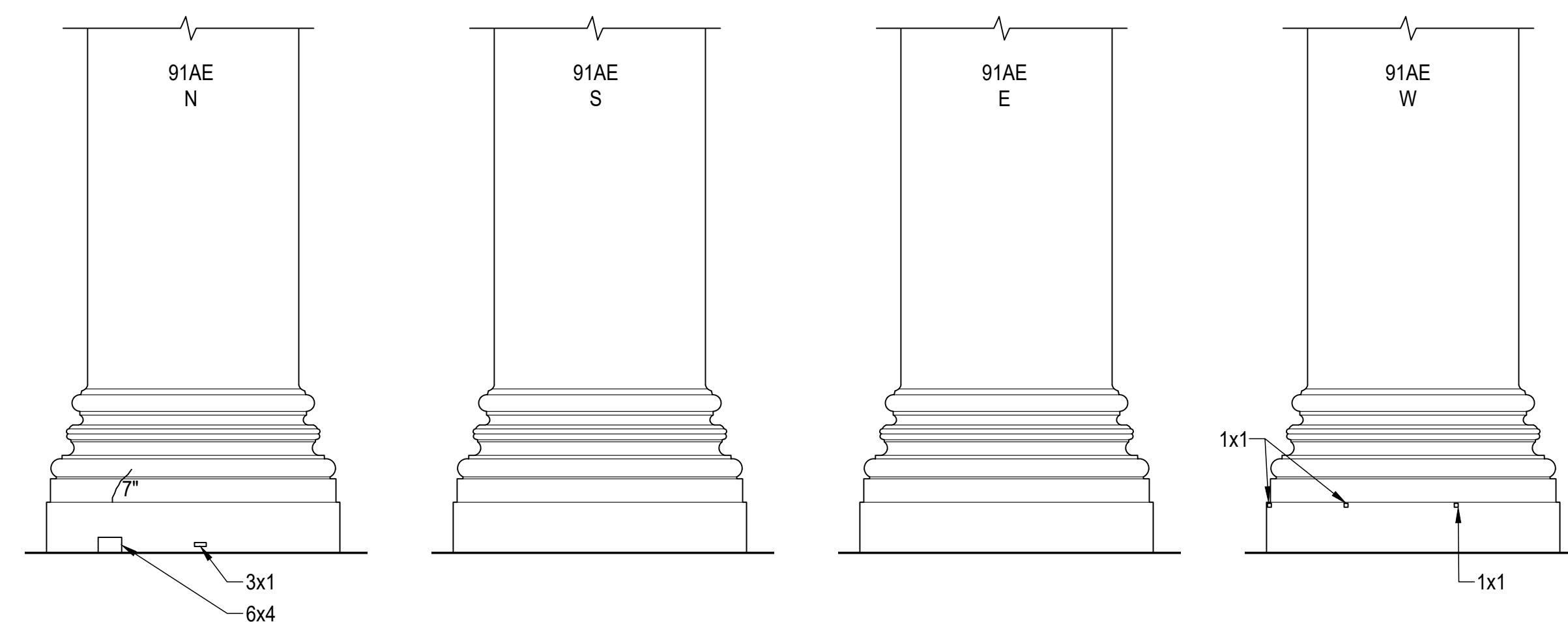
3
A5.21 COLUMN REPAIR - 93AW



4
A5.21 COLUMN REPAIR - 93EE



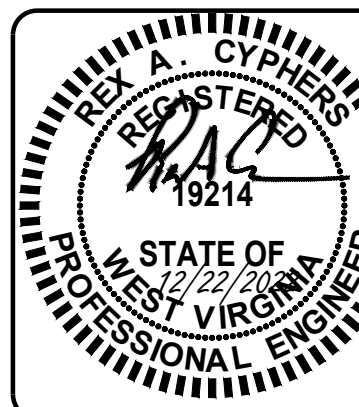
5
A5.21 COLUMN REPAIR - 93JE



4
A5.21 COLUMN REPAIR - 91AE



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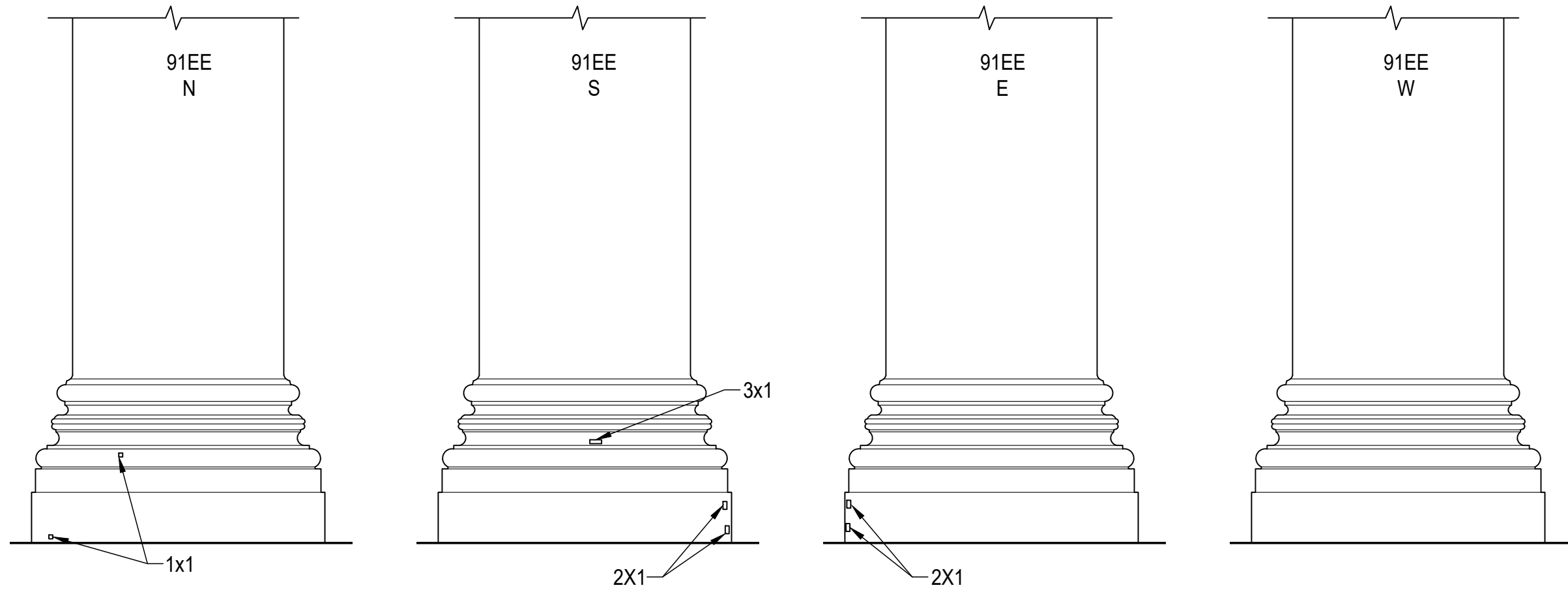
WEST VIRGINIA STATE CAPITOL BUILDING
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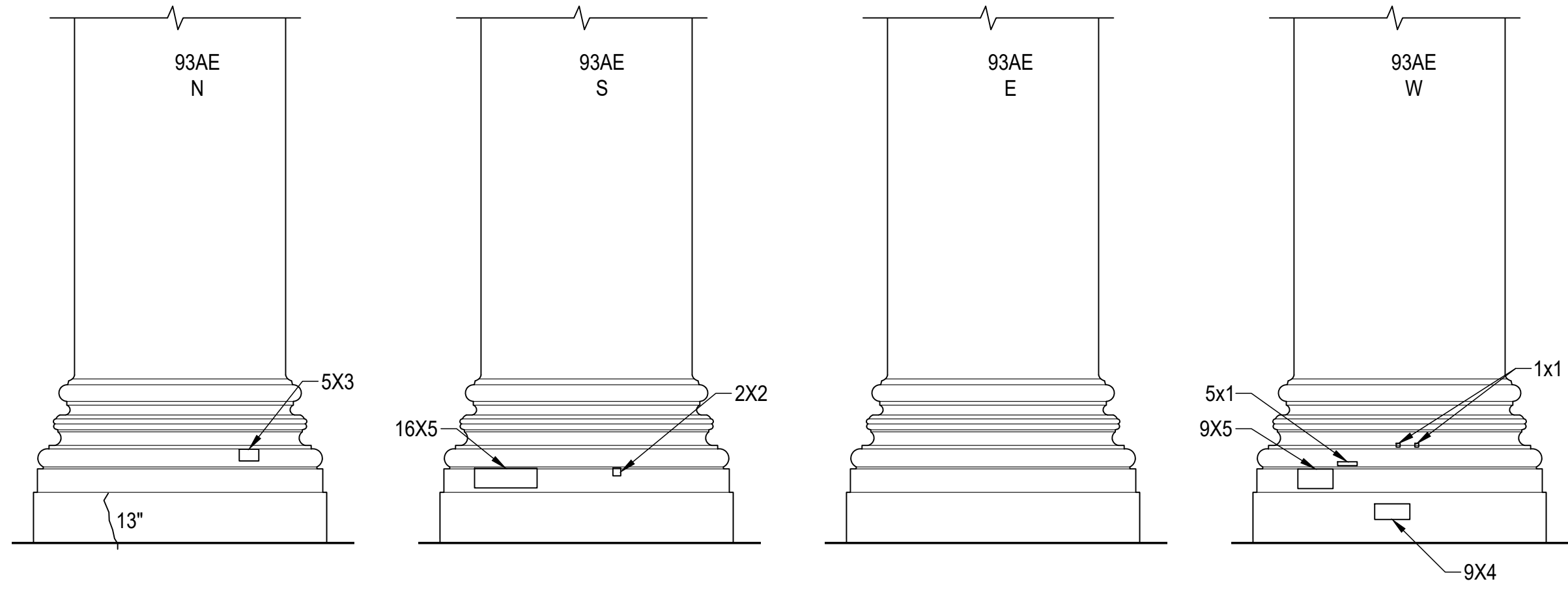
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COLUMN REPAIRS

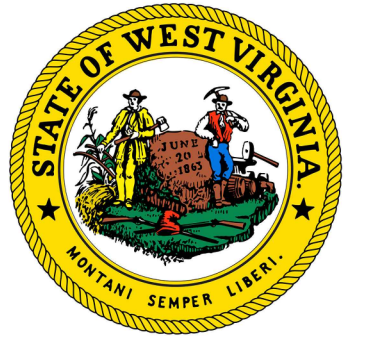
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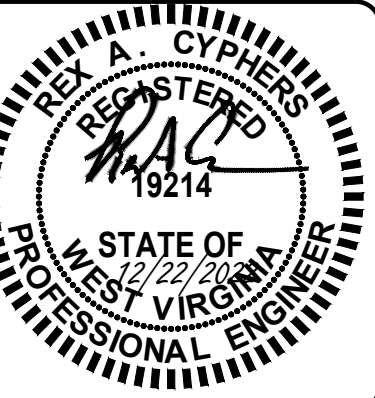
1
A5.22
COLUMN REPAIR - 91EE
SCALE: 3/8"=1'-0"



2
A5.22
COLUMN REPAIR - 93AE
SCALE: 3/8"=1'-0"



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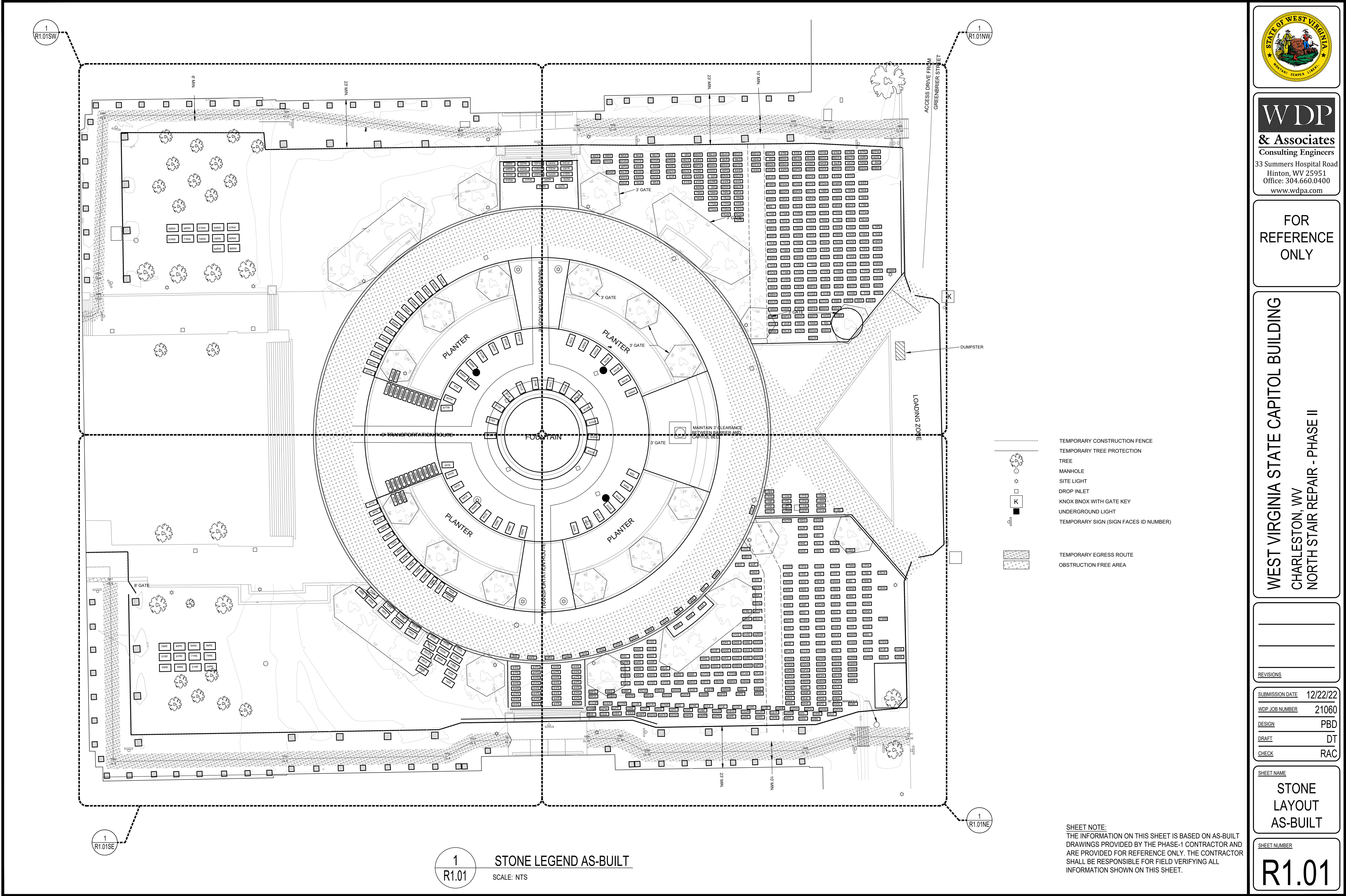
WEST VIRGINIA STATE CAPITOL BUILDING
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NORTH STAIR REPAIR - PHASE II

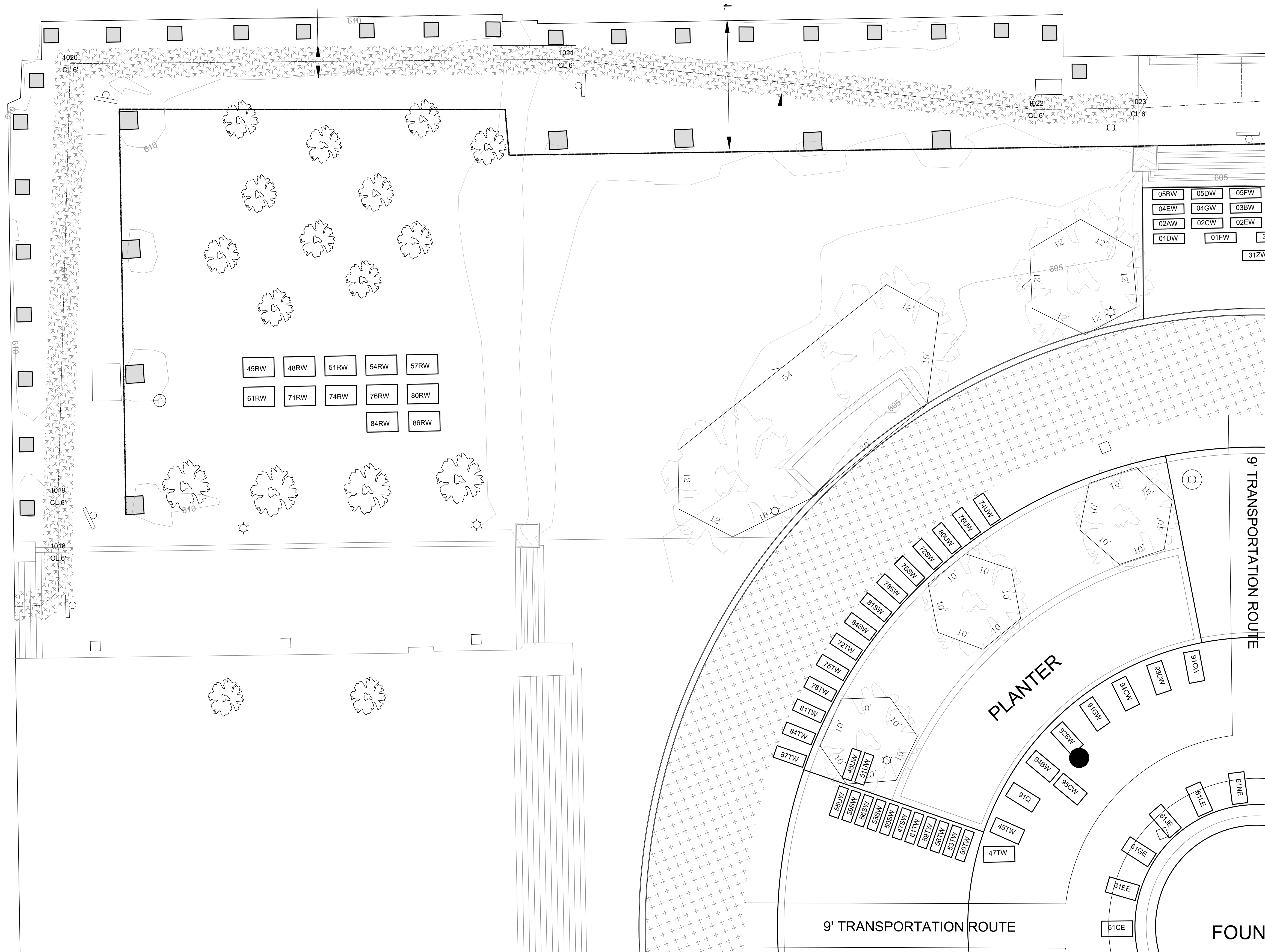
REVISIONS

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CHECK	RAC

SHEET NAME
COLUMN
REPAIRS

SHEET NUMBER
A5.22

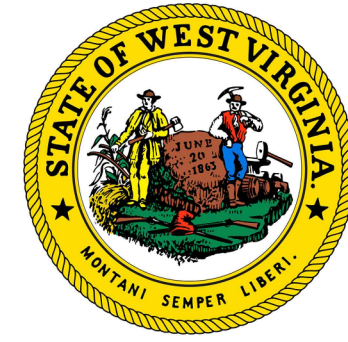




1
R1.01SW
STONE LEGEND AS-BUILT
SCALE: 1/32"=1'-0"

- TEMPORARY CONSTRUCTION FENCE
- TEMPORARY TREE PROTECTION
- TREE
- MANHOLE
- SITE LIGHT
- DROP INLET
- KNOX BOX WITH GATE KEY
- UNDERGROUND LIGHT
- TEMPORARY SIGN (SIGN FACES ID NUMBER)
- TEMPORARY EGRESS ROUTE
- OBSTRUCTION FREE AREA

SHEET NOTE:
THE INFORMATION ON THIS SHEET IS BASED ON AS-BUILT
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DRAFT	DT
CHECK	RAC

SHEET NAME
STONE
LAYOUT
AS-BUILT

SHEET NUMBER
R1.01SW



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REFERENCE
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CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

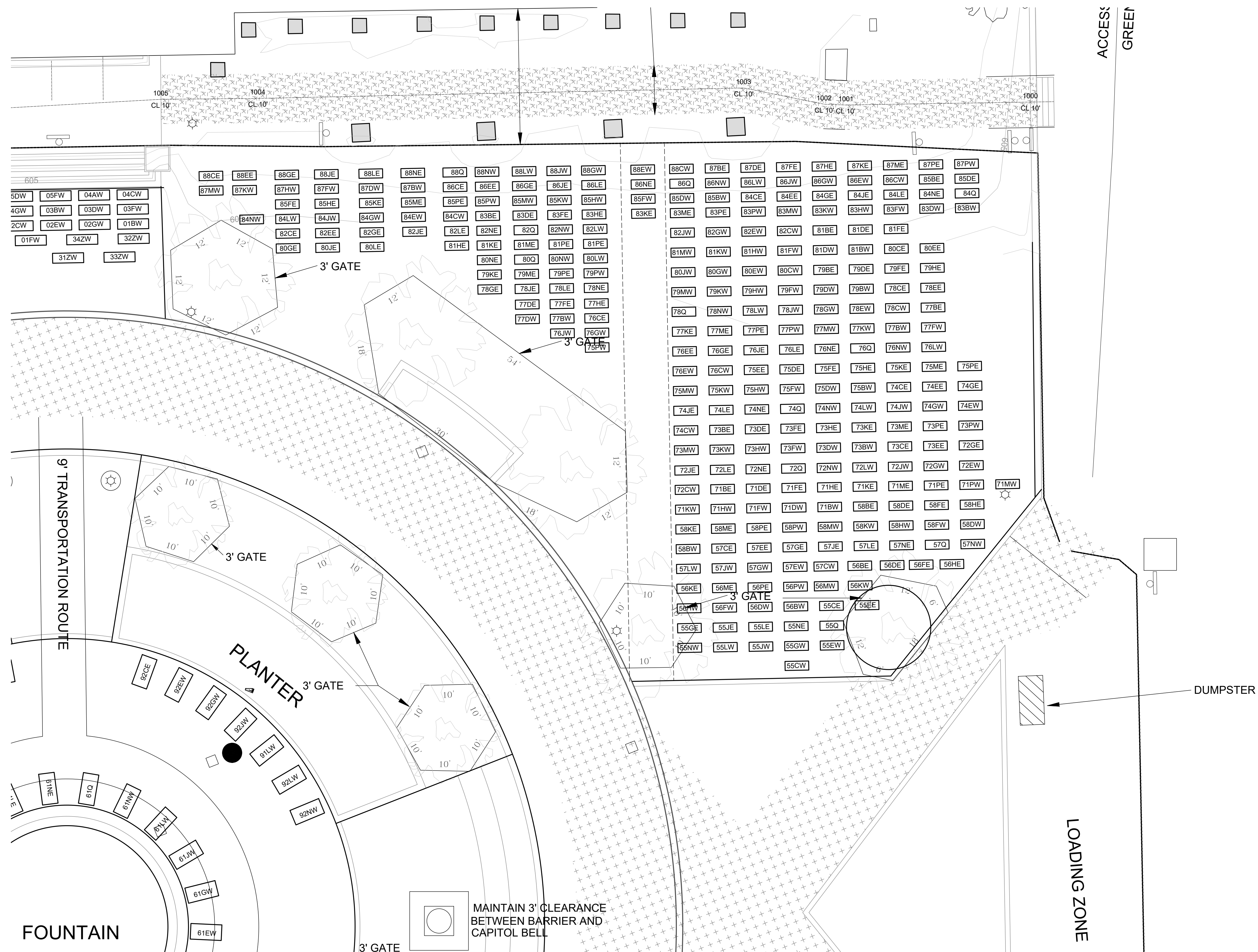
VISIONS

MISSION DATE 12/22/22
P JOB NUMBER 21060
SIGN PBD
RAFT DT
CHECK RAC

STONE
LAYOUT
AS-BUILT

SHEET NUMBER

R1.01NW]



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1 STONE LEGEND AS-BUILT
R1.01NW SCALE: 3/32"=1'-0"



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CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

REVISIONS

SUBMISSION DATE 12/22/22

WDP JOB NUMBER 21060

DESIGN PBD

DRAFT DT

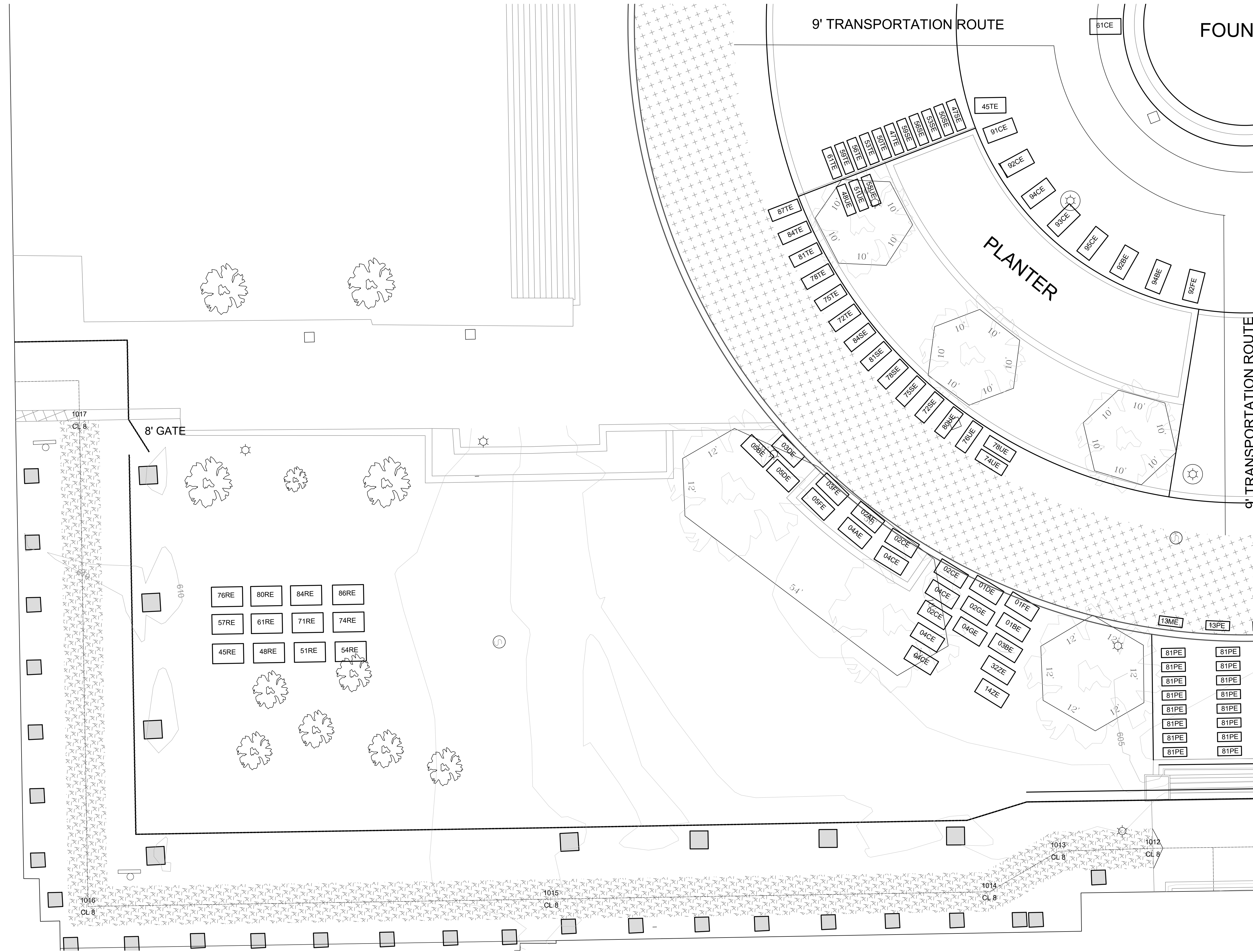
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SHEET NAME

STONE
LAYOUT
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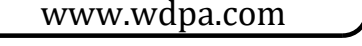
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STONE LEGEND AS-BUILT
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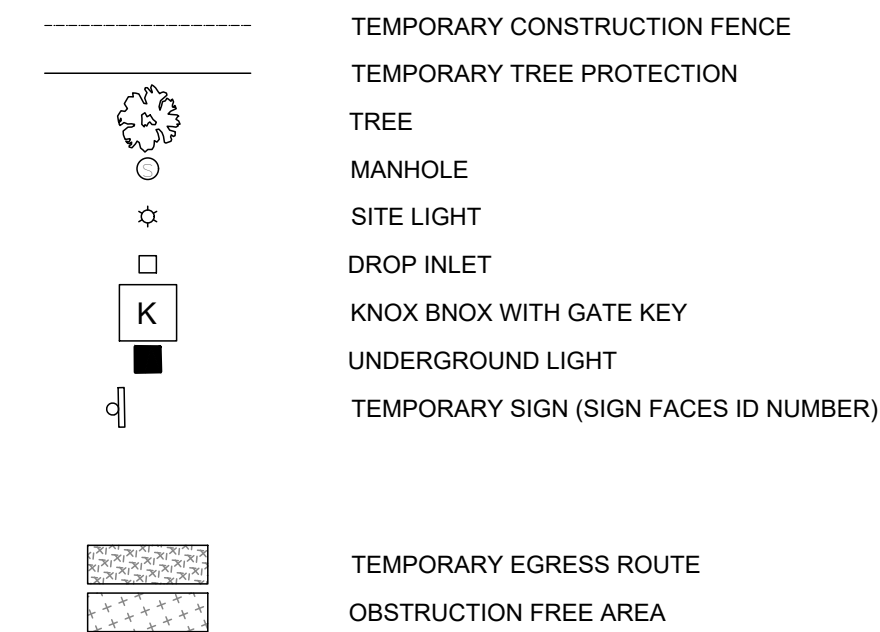
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CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

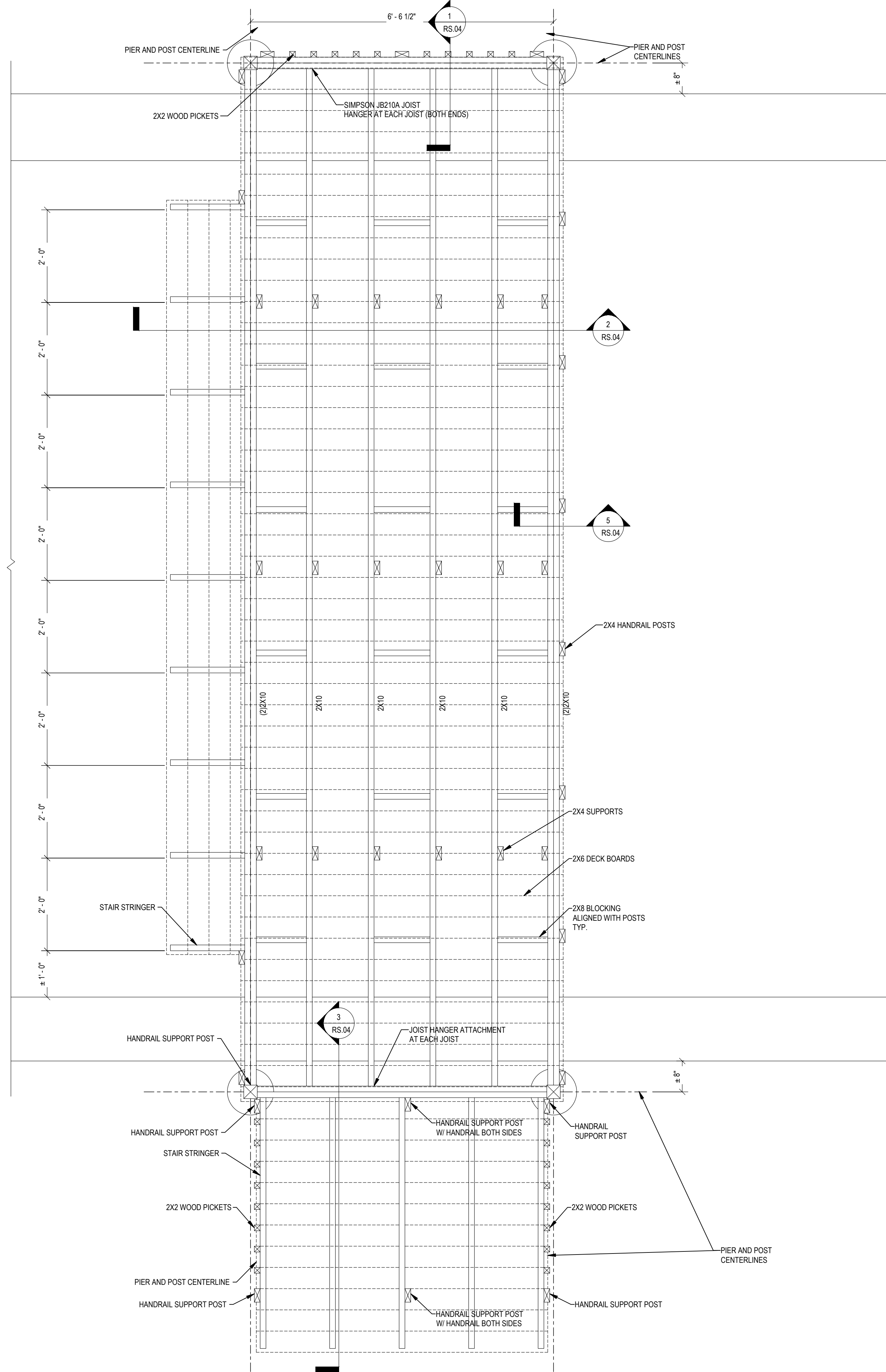
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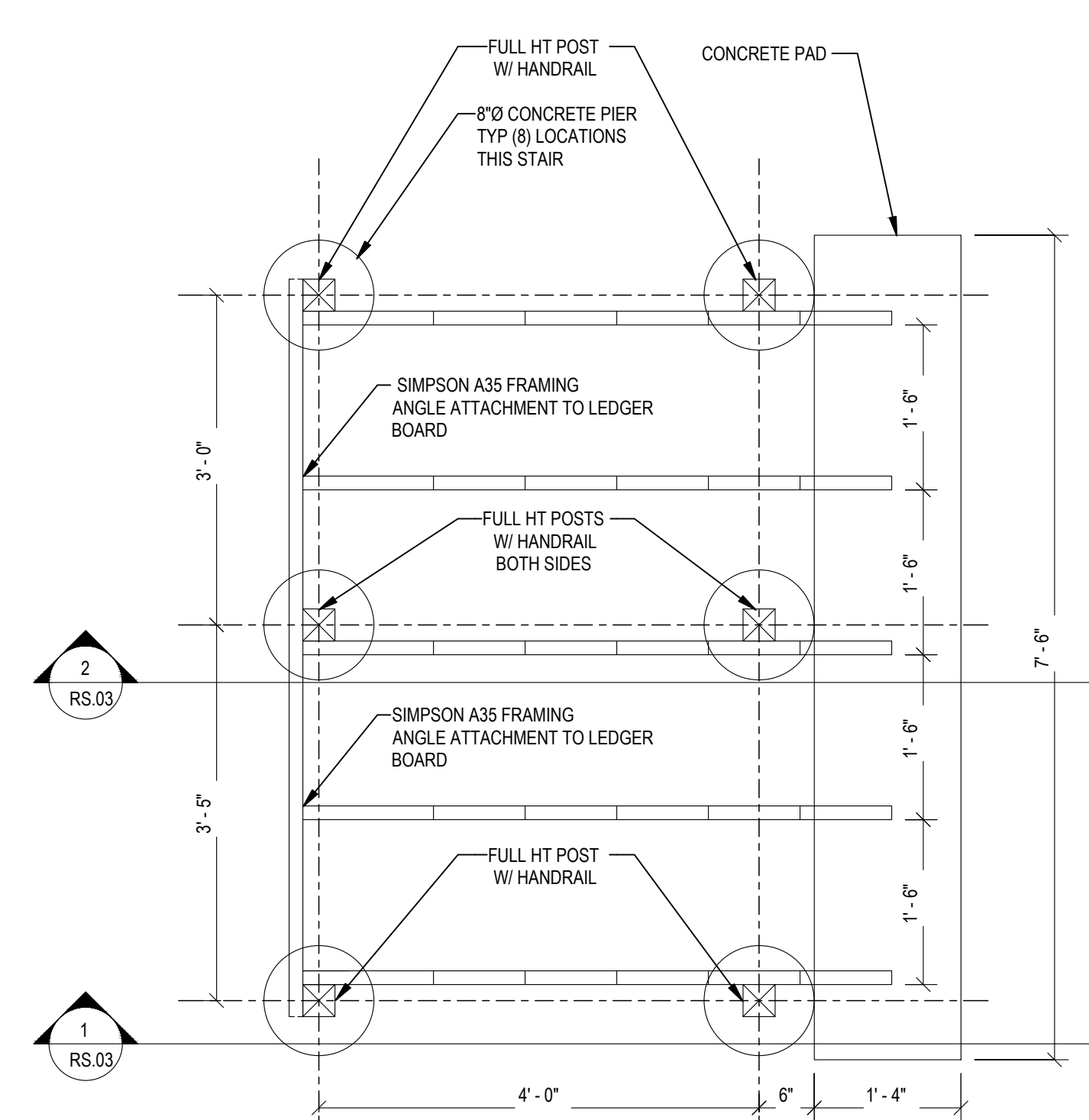


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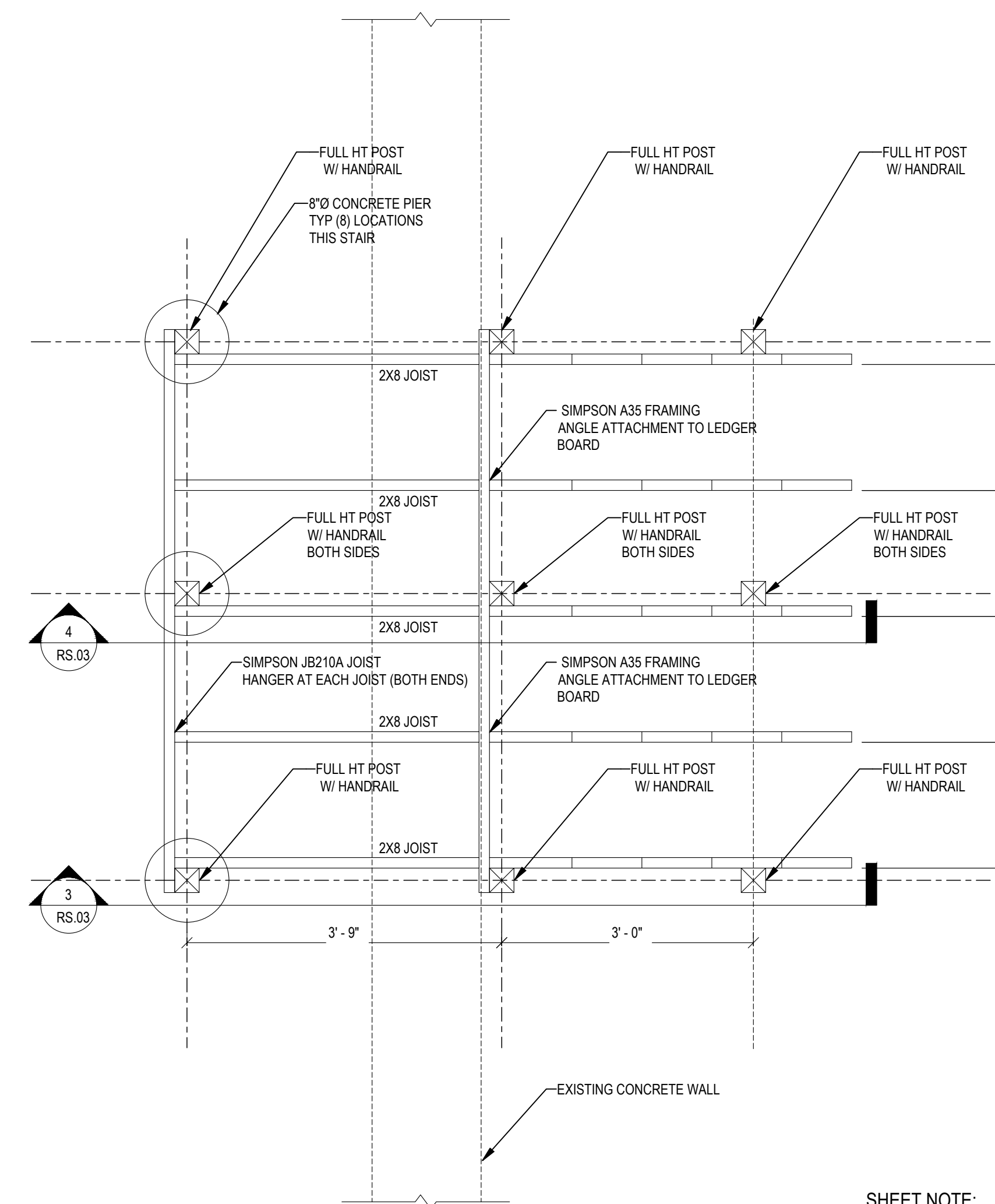
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R1.01NE SCALE: 3/32"=1'-0"



3 STAIR PLAN - EAST EGRESS RAMP SCALE: $\frac{3}{32}" = 1'-0"$
SEE SITE PLAN FOR EGRESS STAIR LOCATION



1 STAIR PLAN - EAST EGRESS PATH SCALE: $\frac{3}{4}" = 1'-0"$
SEE SITE PLAN FOR EGRESS STAIR LOCATION



2 STAIR PLAN - WEST EGRESS PATH SCALE: $\frac{3}{4}" = 1'-0"$
SEE SITE PLAN FOR EGRESS STAIR LOCATION

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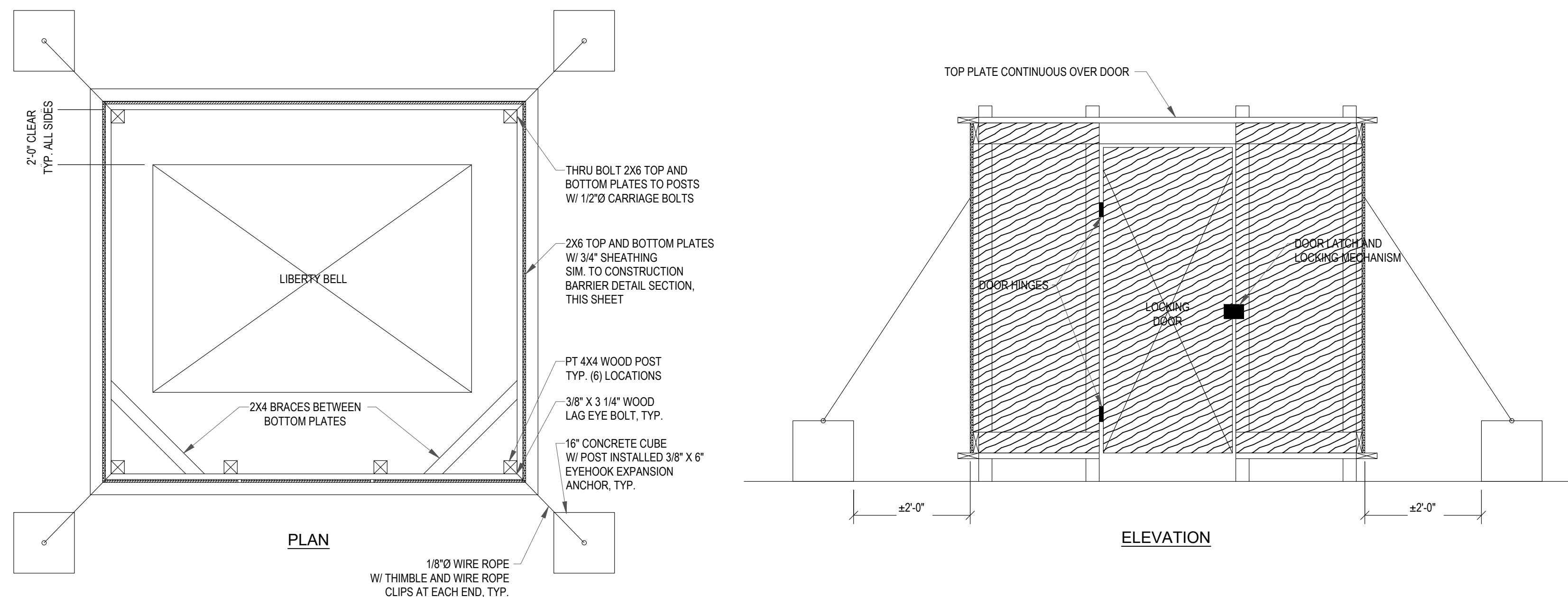
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CHARLESTON, WV
NORTH STAIR REPAIR - PHASE II

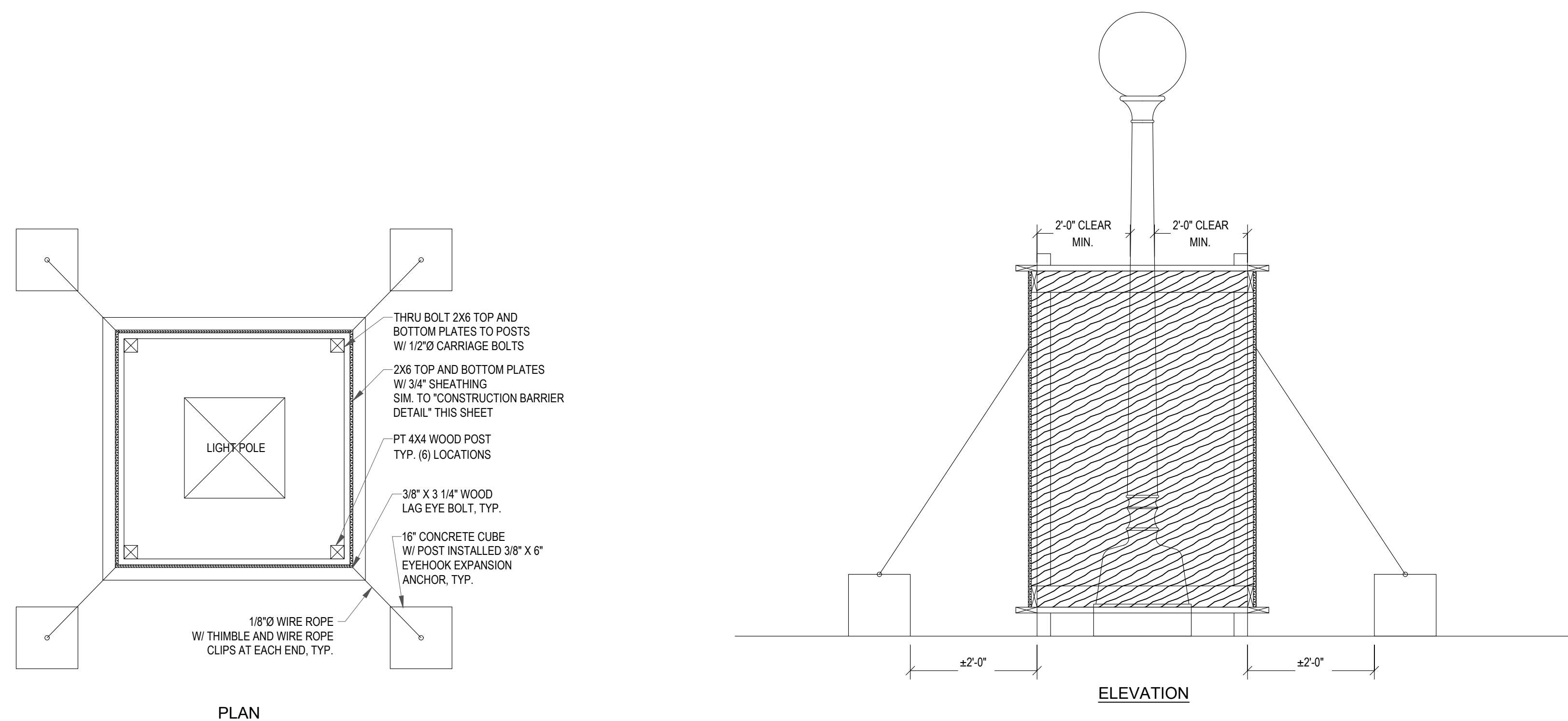
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STAIR PLANS**

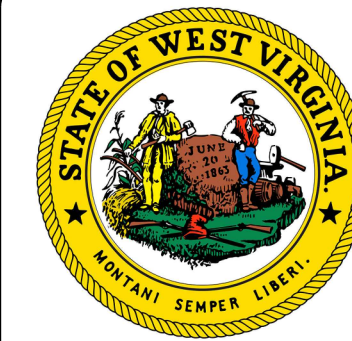
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CONSTRUCTION BARRIER AT LIBERTY BELL



CONSTRUCTION BARRIER AT LIGHT POLES
INSTALL AT LIGHT POLES AS INDICATED ON SITE PLAN



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REVISIONS

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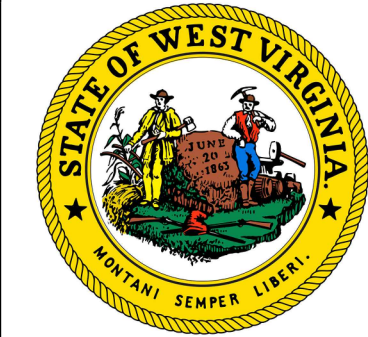
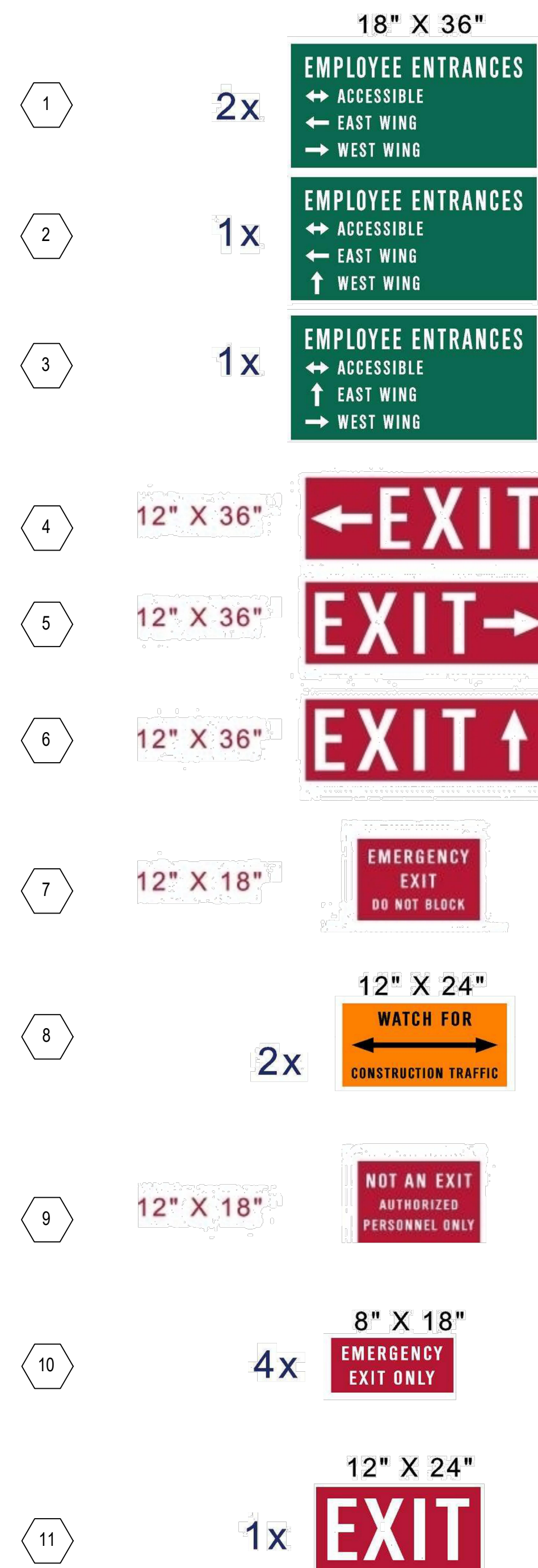
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CONSTRUCTION
BARRIERS

SHEET NUMBER

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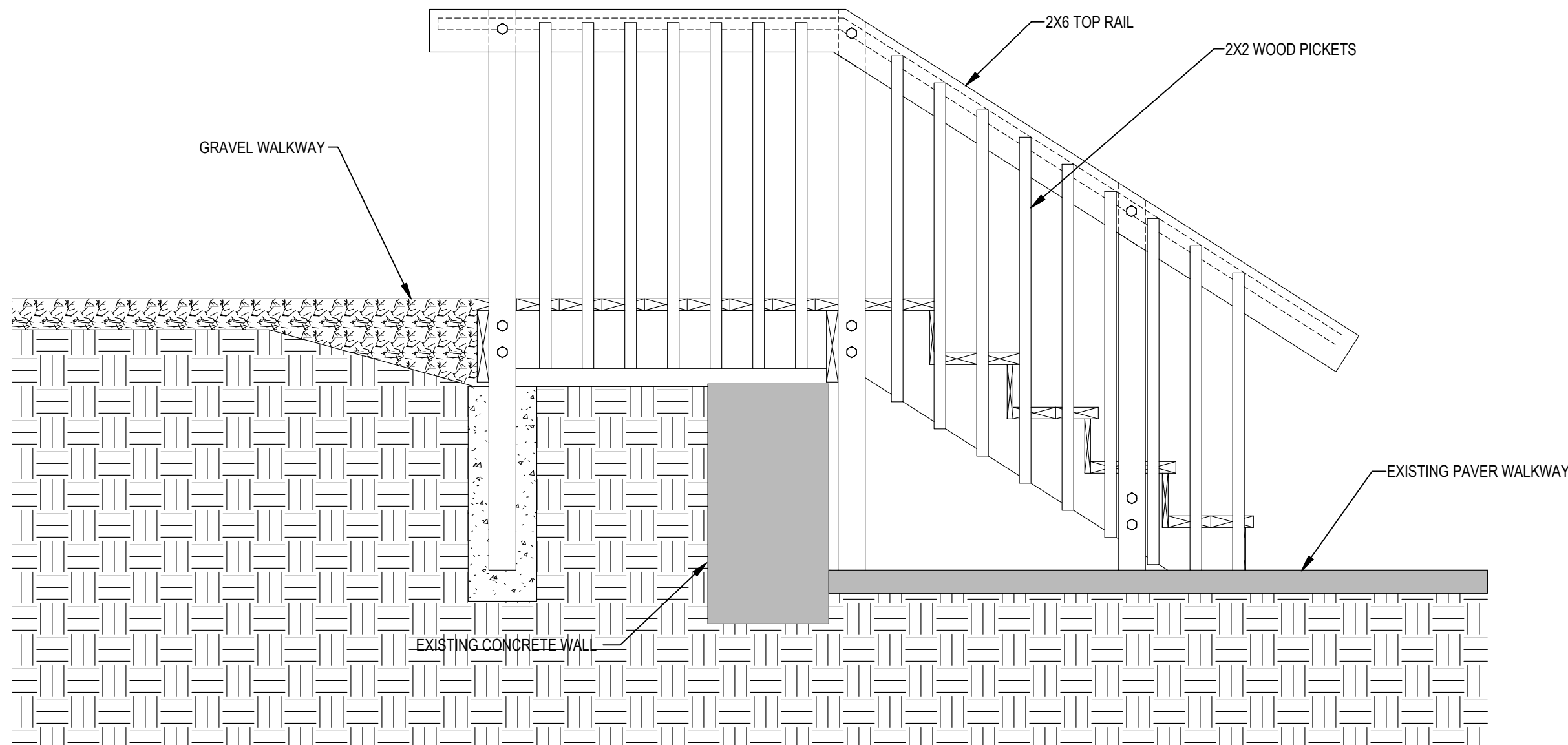
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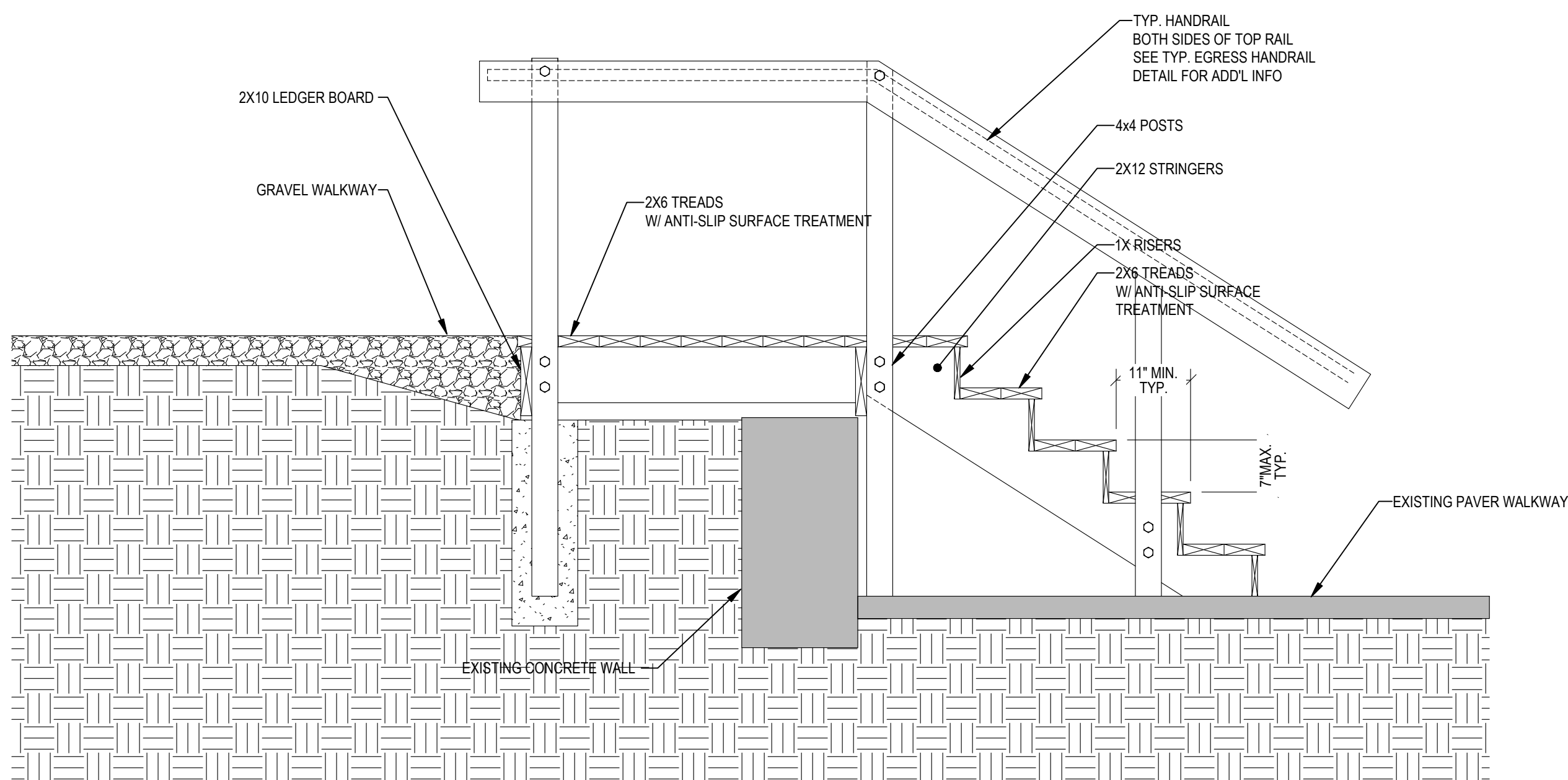
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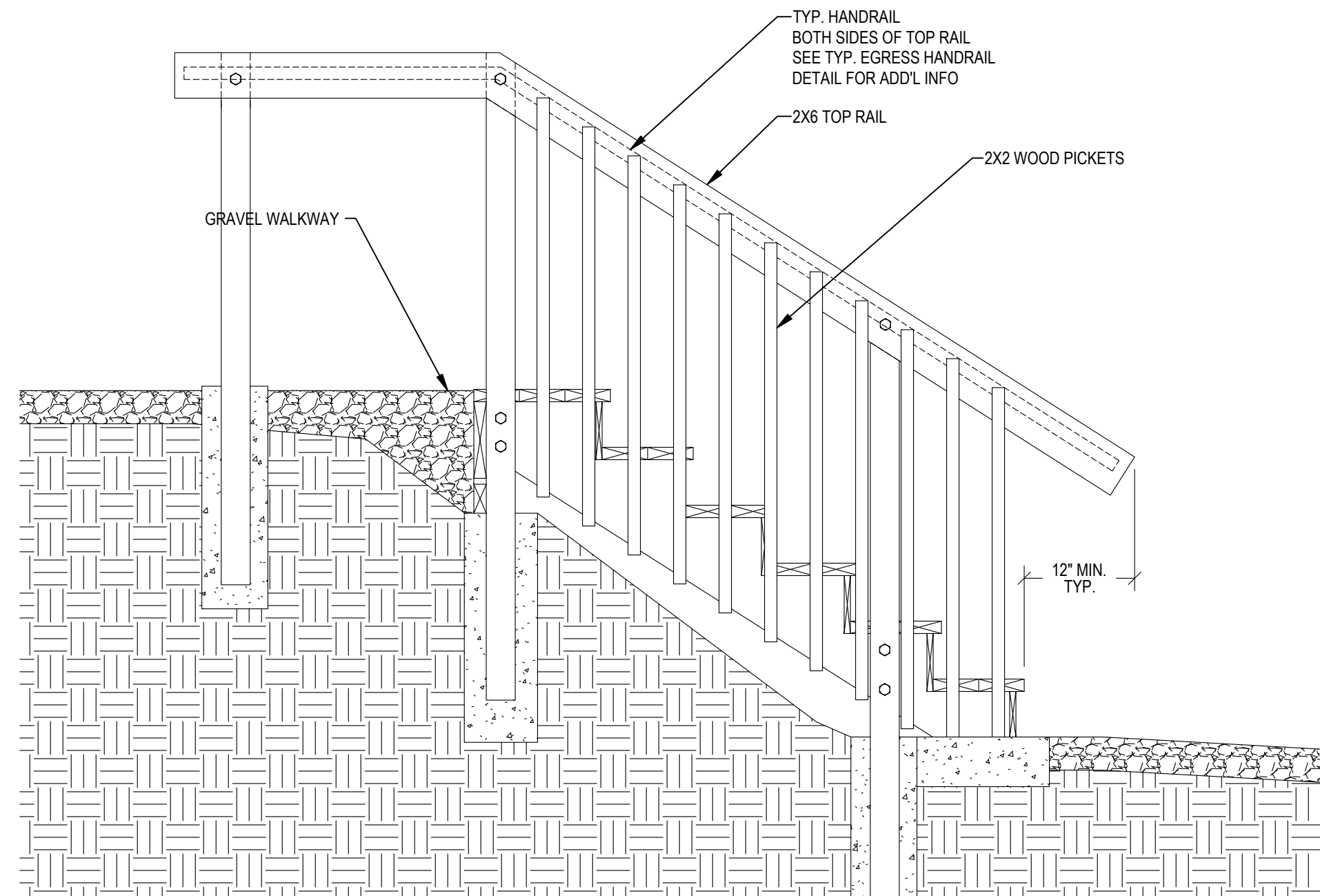
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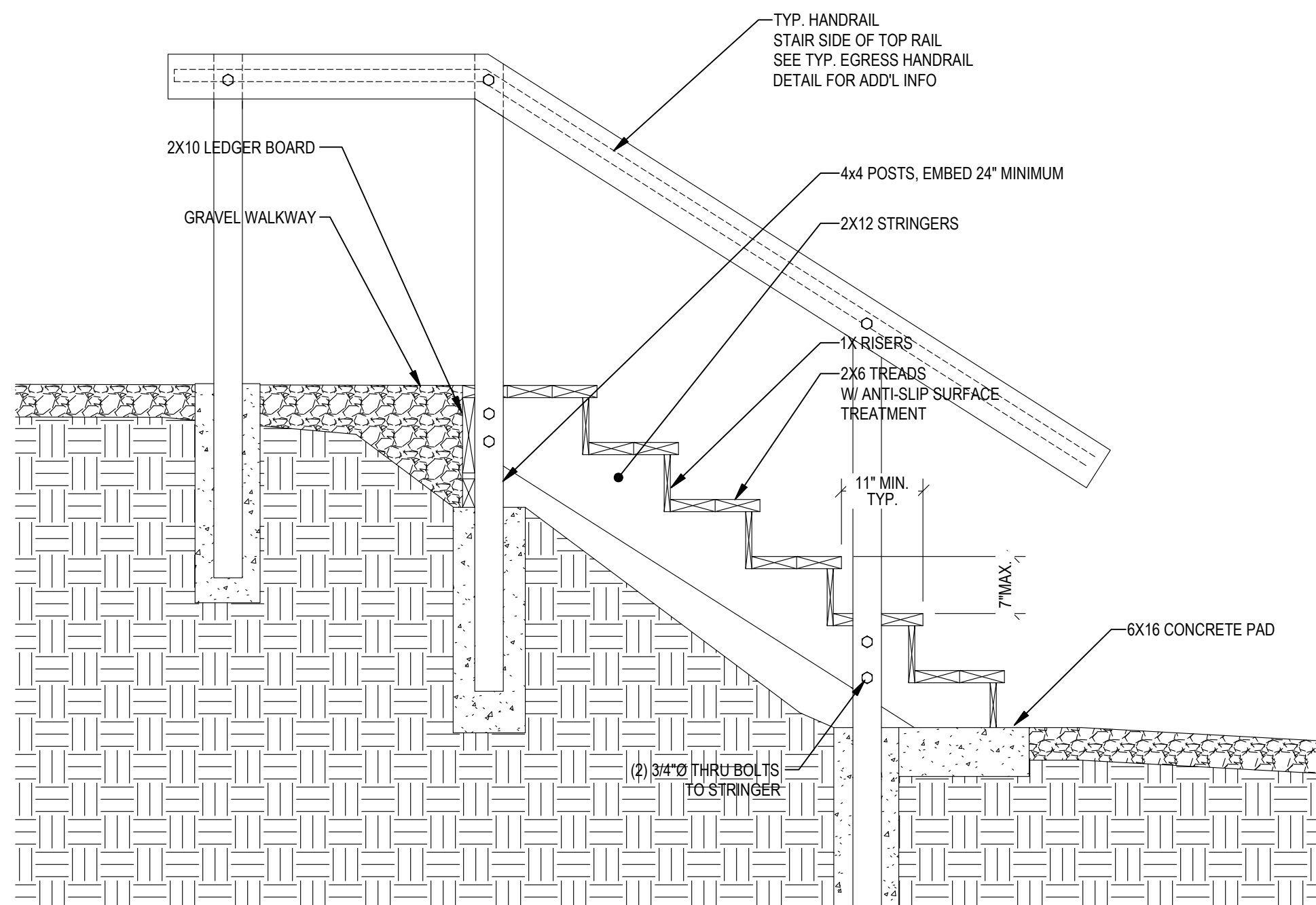
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3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

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REVISIONS

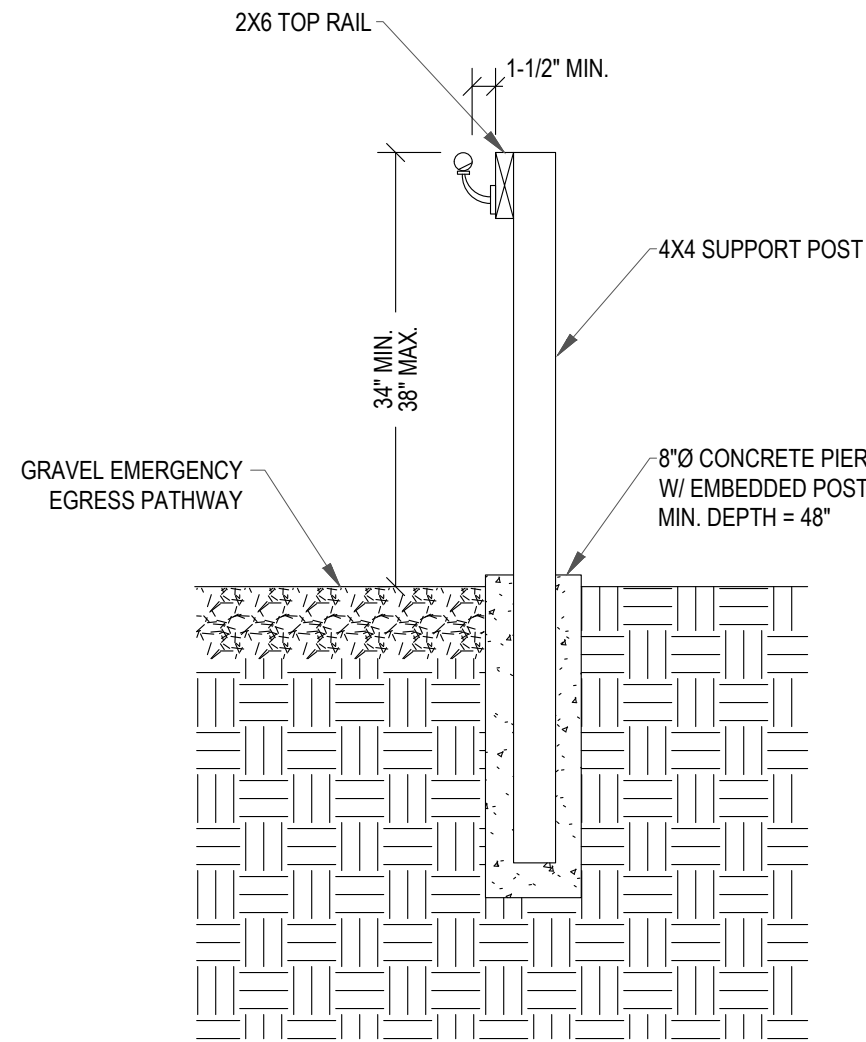
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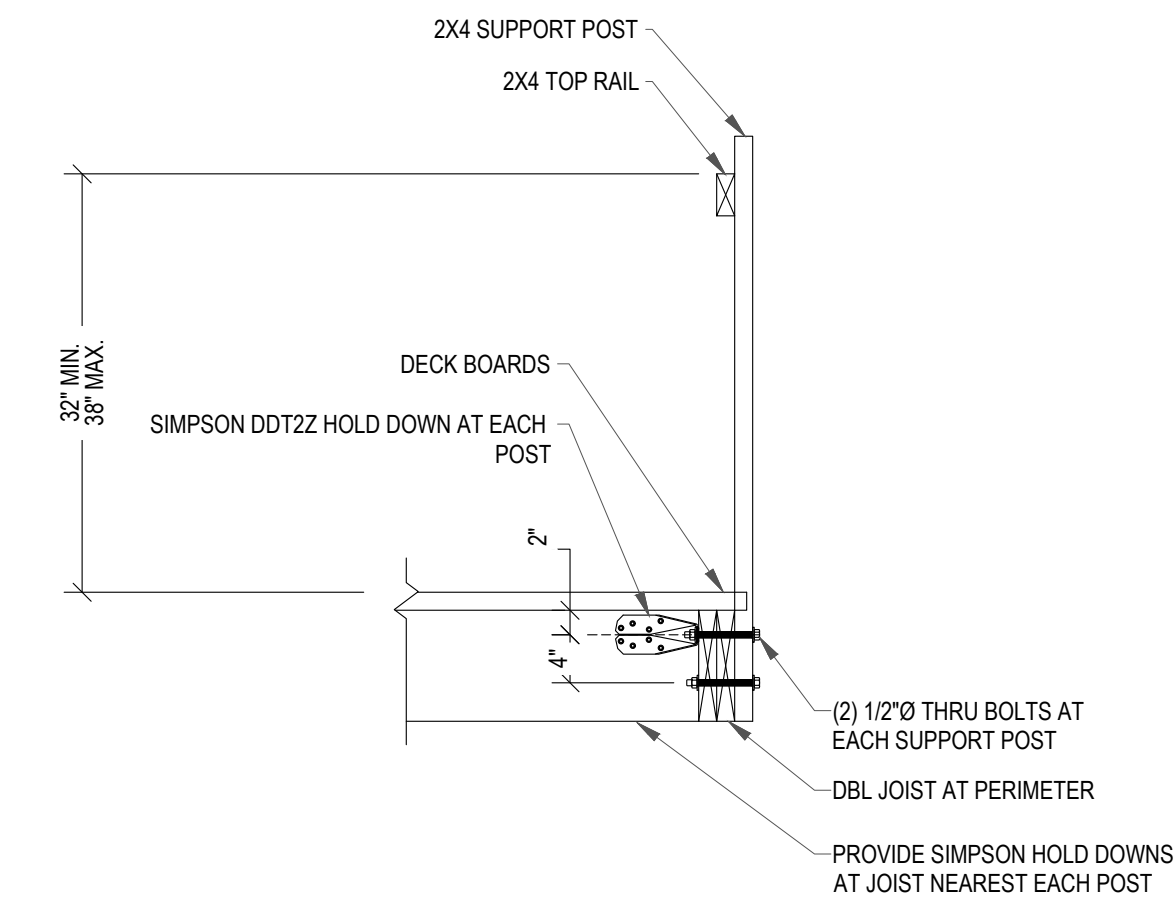
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STAIR
SECTIONS

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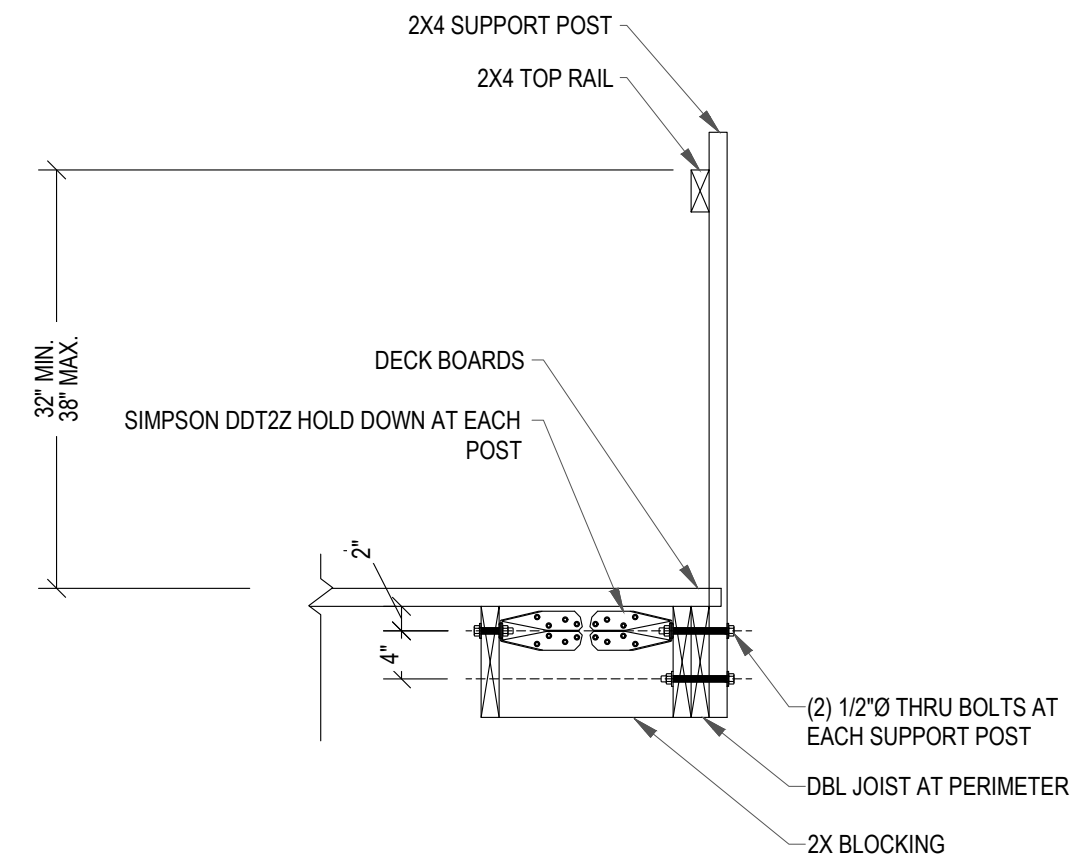
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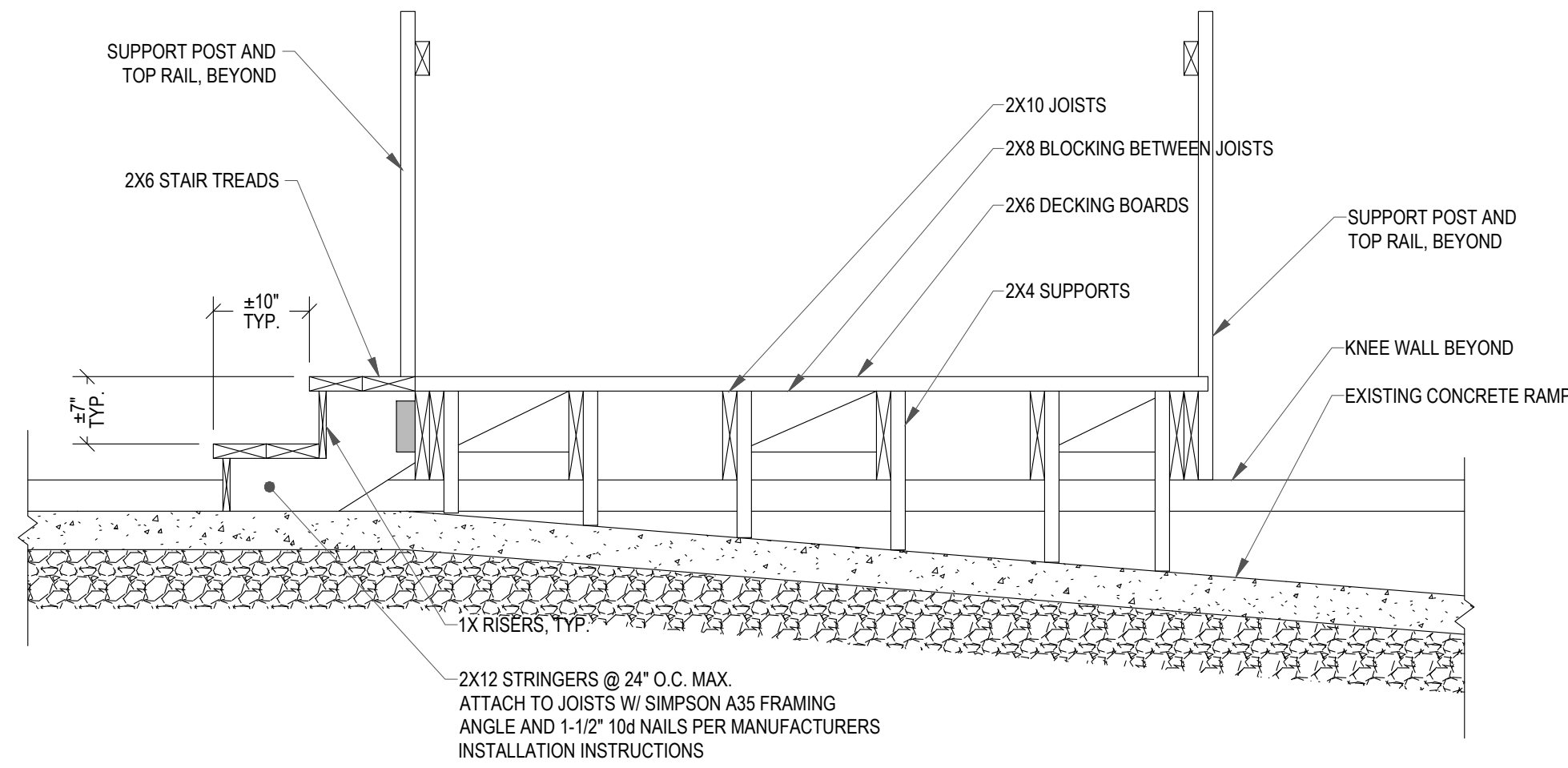
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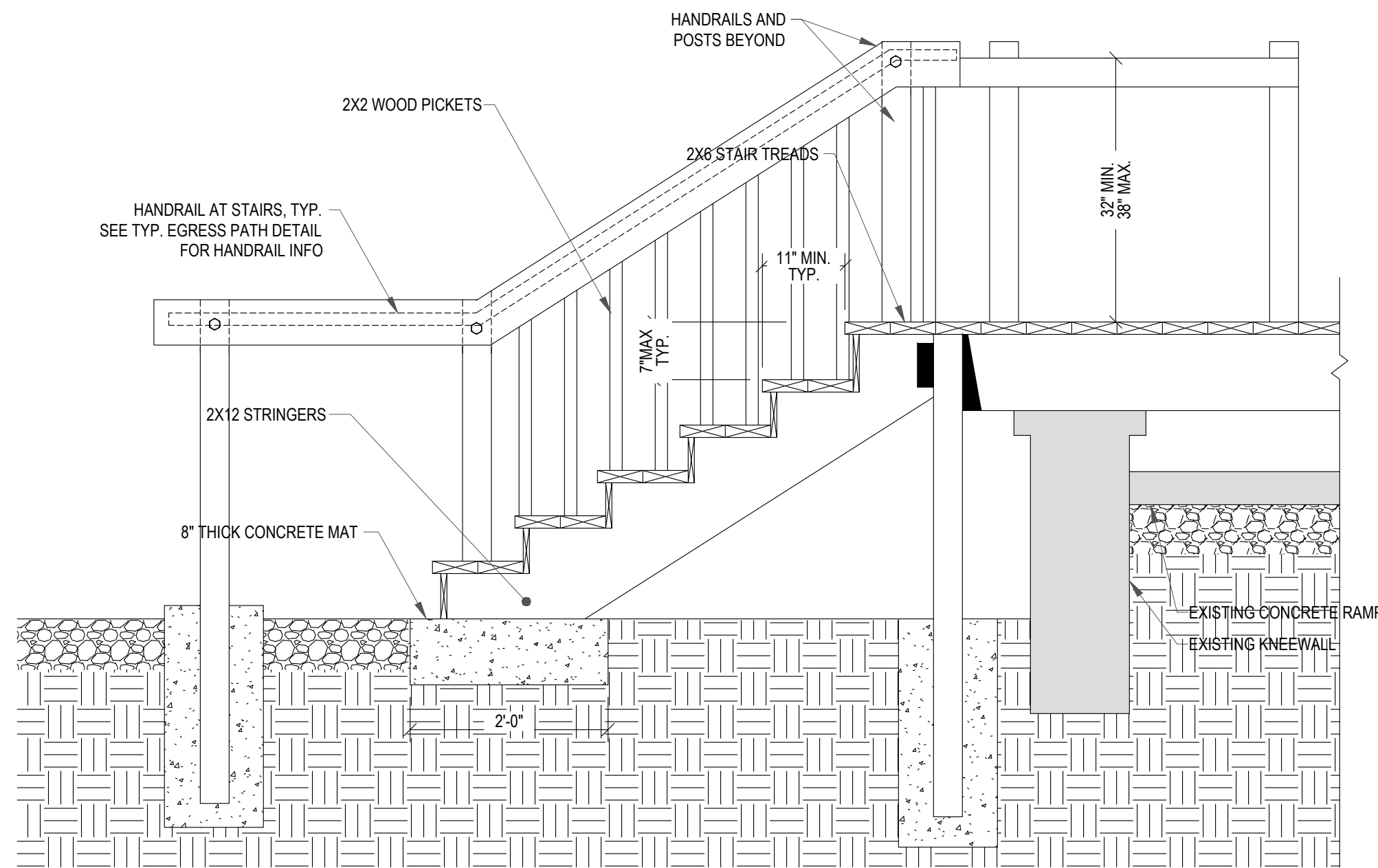
4 TYP. EGRESS PATH HANDRAIL
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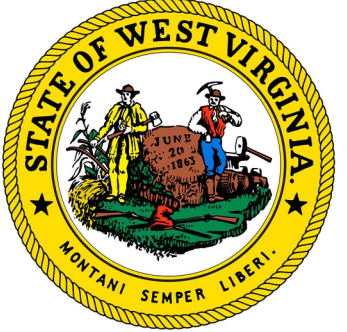


2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"

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SHEET NAME

EGRESS
STAIR &
HANDRAIL

SHEET NUMBER

R5.04

Project Manual

for

The West Virginia State Capitol North Stair Repair Project – Phase II

Procurement Folder: GSD1149150

Volume 1: Contract Documents and Specifications

Prepared for:

West Virginia Department of Administration

General Services Division

218 California Avenue

Charleston, WV 25305

Prepared by:



WDP & Associates Consulting Engineers, Inc.

33 Summers Hospital Road

Hinton, WV 25951

Construction Documents

December 22, 2022

DESIGNER OF RECORD PROFESSIONAL SEAL



Rex A. Cyphers, P.E.
WDP & Associates Consulting Engineers, Inc.
33 Summers Hospital Road
Hinton, WV 25951

Seal Engineer of Record

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END OF SOD

AIA® Document A201® – 2007

General Conditions of the Contract for Construction

for the following PROJECT:

(Name and location or address)

West Virginia State Capitol Building North Stair Repair Project-Phase II
1900 Kanawha Boulevard East, Building No. 1
Charleston, West Virginia 25305

THE OWNER:

(Name, legal status and address)

State of West Virginia
Department of Administration
General Services Division (GSD)
218 California Avenue
Charleston, West Virginia 25305

THE ARCHITECT:

(Name, legal status and address)

WDP & Associates Consulting Engineers, Inc.
33 Summers Hospital Road
Hinton, West Virginia 25951

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 BASIC DEFINITIONS

§ 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding requirements.

§ 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 THE WORK

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by separate contractors.

§ 1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

§ 1.1.6 THE SPECIFICATIONS

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 INITIAL DECISION MAKER

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2 and certify termination of the Agreement under Section 14.2.2.

§ 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 CAPITALIZATION

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 INTERPRETATION

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and will retain all common law, statutory and other reserved rights, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

§ 1.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

ARTICLE 2 OWNER

§ 2.1 GENERAL

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 2.2.1 Prior to commencement of the Work, the Contractor may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. Thereafter, the Contractor may only request such evidence if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) a change in the Work materially changes the Contract Sum; or (3) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due. The Owner shall furnish such evidence as a condition precedent to commencement or continuation of the Work or the

portion of the Work affected by a material change. After the Owner furnishes the evidence, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.2 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.2.3 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.2.4 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.2.5 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.3 OWNER'S RIGHT TO STOP THE WORK

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

ARTICLE 3 CONTRACTOR

§ 3.1 GENERAL

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.2.3, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall make Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely written notice to the Owner and Architect and shall not proceed with that portion of the Work without further written instructions from the Architect. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Owner shall be solely responsible for any loss or damage arising solely from those Owner-required means, methods, techniques, sequences or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 LABOR AND MATERIALS

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work authorized by the Architect in accordance with Sections 3.12.8 or 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.5 WARRANTY

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.6 TAXES

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 PERMITS, FEES, NOTICES AND COMPLIANCE WITH LAWS

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 **Concealed or Unknown Conditions.** If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 21 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor in writing, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may proceed as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall

continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 ALLOWANCES

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- .1 Allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- .2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- .3 Whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 SUPERINTENDENT

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the name and qualifications of a proposed superintendent. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to the proposed superintendent or (2) that the Architect requires additional time to review. Failure of the Architect to reply within the 14 day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor shall prepare a submittal schedule, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, and shall submit the schedule(s) for the Architect's approval. The Architect's approval shall not unreasonably be delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Contractor shall maintain at the site for the Owner one copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and one copy of approved Shop Drawings, Product Data, Samples and similar required

submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. Their purpose is to demonstrate the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such written notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. The Contractor shall not be required to provide professional services in violation of applicable law. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop

Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review, approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Contractor shall not be responsible for the adequacy of the performance and design criteria specified in the Contract Documents.

§ 3.13 USE OF SITE

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 CUTTING AND PATCHING

§ 3.14.1 The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

§ 3.15 CLEANING UP

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 ACCESS TO WORK

The Contractor shall provide the Owner and Architect access to the Work in preparation and progress wherever located.

§ 3.17 ROYALTIES, PATENTS AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Architect.

§ 3.18 INDEMNIFICATION

§ 3.18.1 To the fullest extent permitted by law the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a

party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 GENERAL

§ 4.1.1 The Owner shall retain an architect lawfully licensed to practice architecture or an entity lawfully practicing architecture in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 4.1.2 Duties, responsibilities and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Contractor and Architect. Consent shall not be unreasonably withheld.

§ 4.1.3 If the employment of the Architect is terminated, the Owner shall employ a successor architect as to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 4.2 ADMINISTRATION OF THE CONTRACT

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents, except as provided in Section 3.3.1.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 COMMUNICATIONS FACILITATING CONTRACT ADMINISTRATION

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner and Contractor shall endeavor to communicate with each other through the Architect about matters arising out of or relating to the Contract. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed.

However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The Architect's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the Architect, of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more project representatives to assist in carrying out the Architect's responsibilities at the site. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in an exhibit to be incorporated in the Contract Documents.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 DEFINITIONS

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

§ 5.2.1 Unless otherwise stated in the Contract Documents or the bidding requirements, the Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to any such proposed person or entity or (2) that the Architect requires additional time for review. Failure of the Owner or Architect to reply within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person or entity previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 SUBCONTRACTUAL RELATIONS

By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- .1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor in writing; and
- .2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon such assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such Claim as provided in Article 15.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces, the Owner shall be deemed to be subject to the same obligations and to have the same rights that apply to the Contractor under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6 and Articles 10, 11 and 12.

§ 6.2 MUTUAL RESPONSIBILITY

§ 6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report shall constitute an acknowledgment that the Owner's or separate contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a separate contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a separate contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or separate contractors as provided in Section 10.2.5.

§ 6.2.5 The Owner and each separate contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 GENERAL

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor and Architect; a Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor; an order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or order for a minor change in the Work.

§ 7.2 CHANGE ORDERS

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor and Architect stating their agreement upon all of the following:

- .1 The change in the Work;
- .2 The amount of the adjustment, if any, in the Contract Sum; and
- .3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 CONSTRUCTION CHANGE DIRECTIVES

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
- .2 Unit prices stated in the Contract Documents or subsequently agreed upon;
- .3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
- .4 As provided in Section 7.3.7.

§ 7.3.4 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 7.3.5 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.6 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.7 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the method and the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.7 shall be limited to the following:

- .1 Costs of labor, including social security, old age and unemployment insurance, fringe benefits required by agreement or custom, and workers' compensation insurance;
- .2 Costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed;
- .3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;
- .4 Costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to the Work; and
- .5 Additional costs of supervision and field office personnel directly attributable to the change.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 MINOR CHANGES IN THE WORK

The Architect has authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes will be effected by written order signed by the Architect and shall be binding on the Owner and Contractor.

ARTICLE 8 TIME

§ 8.1 DEFINITIONS

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 PROGRESS AND COMPLETION

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 DELAYS AND EXTENSIONS OF TIME

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or Architect, or of an employee of either, or of a separate contractor employed by the Owner; or by changes ordered in the Work; or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control; or by delay authorized by the Owner pending mediation and arbitration; or by other causes that the Architect determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 CONTRACT SUM

The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.2 SCHEDULE OF VALUES

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit to the Architect, before the first Application for Payment, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 9.3 APPLICATIONS FOR PAYMENT

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. Such application shall be notarized, if required, and supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require, such as copies of requisitions from Subcontractors and material suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon

compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage and transportation to the site for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

§ 9.4 CERTIFICATES FOR PAYMENT

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data comprising the Application for Payment, that, to the best of the Architect's knowledge, information and belief, the Work has progressed to the point indicated and that the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 DECISIONS TO WITHHOLD CERTIFICATION

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- .1 defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating probable filing of such claims unless security acceptable to the Owner is provided by the Contractor;
- .3 failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a separate contractor;
- .6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.3 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or material or equipment suppliers to whom the

Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Architect will reflect such payment on the next Certificate for Payment.

§ 9.6 PROGRESS PAYMENTS

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor no later than seven days after receipt of payment from the Owner the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

§ 9.6.5 Contractor payments to material and equipment suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors and suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, shall create any fiduciary liability or tort liability on the part of the Contractor for breach of trust or shall entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.7 FAILURE OF PAYMENT

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' written notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shut-down, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 SUBSTANTIAL COMPLETION

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 9.9 PARTIAL OCCUPANCY OR USE

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer as required under Section 11.3.1.5 and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 FINAL COMPLETION AND FINAL PAYMENT

§ 9.10.1 Upon receipt of the Contractor's written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract

Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- .1 liens, Claims, security interests or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents; or
- .3 terms of special warranties required by the Contract Documents.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 SAFETY OF PERSONS AND PROPERTY

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in

whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 HAZARDOUS MATERIALS

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Architect in writing.

§ 10.3.2 Upon receipt of the Contractor's written notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shut-down, delay and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall indemnify the Owner for the cost and expense the Owner incurs (1) for remediation of a material or substance the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall indemnify the Contractor for all cost and expense thereby incurred.

§ 10.4 EMERGENCIES

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 CONTRACTOR'S LIABILITY INSURANCE

§ 11.1.1 The Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor's operations and completed operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

- .1 Claims under workers' compensation, disability benefit and other similar employee benefit acts that are applicable to the Work to be performed;
- .2 Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;
- .3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;
- .4 Claims for damages insured by usual personal injury liability coverage;
- .5 Claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom;
- .6 Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;
- .7 Claims for bodily injury or property damage arising out of completed operations; and
- .8 Claims involving contractual liability insurance applicable to the Contractor's obligations under Section 3.18.

§ 11.1.2 The insurance required by Section 11.1.1 shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to the Contractor's completed operations coverage, until the expiration of the period for correction of Work or for such other period for maintenance of completed operations coverage as specified in the Contract Documents.

§ 11.1.3 Certificates of insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work and thereafter upon renewal or replacement of each required policy of insurance. These certificates and the insurance policies required by this Section 11.1 shall contain a provision that coverages afforded under the policies will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment as required by Section 9.10.2 and thereafter upon renewal or replacement of such coverage until the expiration of the time required by Section 11.1.2. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

§ 11.1.4 The Contractor shall cause the commercial liability coverage required by the Contract Documents to include (1) the Owner, the Architect and the Architect's consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional

insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations.

§ 11.2 OWNER'S LIABILITY INSURANCE

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

§ 11.3 PROPERTY INSURANCE

§ 11.3.1 Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property required by this Section 11.3 to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Project.

§ 11.3.1.1 Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

§ 11.3.1.2 If the Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in writing prior to commencement of the Work. The Contractor may then effect insurance that will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work, and by appropriate Change Order the cost thereof shall be charged to the Owner. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor in writing, then the Owner shall bear all reasonable costs properly attributable thereto.

§ 11.3.1.3 If the property insurance requires deductibles, the Owner shall pay costs not covered because of such deductibles.

§ 11.3.1.4 This property insurance shall cover portions of the Work stored off the site, and also portions of the Work in transit.

§ 11.3.1.5 Partial occupancy or use in accordance with Section 9.9 shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or otherwise. The Owner and the Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.

§ 11.3.2 BOILER AND MACHINERY INSURANCE

The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor, Subcontractors and Sub-subcontractors in the Work, and the Owner and Contractor shall be named insureds.

§ 11.3.3 LOSS OF USE INSURANCE

The Owner, at the Owner's option, may purchase and maintain such insurance as will insure the Owner against loss of use of the Owner's property due to fire or other hazards, however caused. The Owner waives all rights of action against the Contractor for loss of use of the Owner's property, including consequential losses due to fire or other hazards however caused.

§ 11.3.4 If the Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.

§ 11.3.5 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, the Owner shall waive all rights in accordance with the terms of Section 11.3.7 for damages caused by fire or other causes of loss covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.

§ 11.3.6 Before an exposure to loss may occur, the Owner shall file with the Contractor a copy of each policy that includes insurance coverages required by this Section 11.3. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to the Contractor.

§ 11.3.7 WAIVERS OF SUBROGATION

The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors described in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this Section 11.3 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

§ 11.3.8 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.3.10. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner.

§ 11.3.9 If required in writing by a party in interest, the Owner as fiduciary shall, upon occurrence of an insured loss, give bond for proper performance of the Owner's duties. The cost of required bonds shall be charged against proceeds received as fiduciary. The Owner shall deposit in a separate account proceeds so received, which the Owner shall distribute in accordance with such agreement as the parties in interest may reach, or as determined in accordance with the method of binding dispute resolution selected in the Agreement between the Owner and Contractor. If after such loss no other special agreement is made and unless the Owner terminates the Contract for convenience, replacement of damaged property shall be performed by the Contractor after notification of a Change in the Work in accordance with Article 7.

§ 11.3.10 The Owner as fiduciary shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power; if such objection is made, the dispute shall be resolved in the manner selected by the Owner and Contractor as the method of binding dispute resolution in the Agreement. If the Owner and Contractor have selected arbitration as the method of binding dispute resolution, the Owner as fiduciary shall make settlement with insurers or, in the case of a dispute over distribution of insurance proceeds, in accordance with the directions of the arbitrators.

§ 11.4 PERFORMANCE BOND AND PAYMENT BOND

§ 11.4.1 The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract.

§ 11.4.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 UNCOVERING OF WORK

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense unless the condition was caused by the Owner or a separate contractor in which event the Owner shall be responsible for payment of such costs.

§ 12.2 CORRECTION OF WORK

§ 12.2.1 BEFORE OR AFTER SUBSTANTIAL COMPLETION

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 AFTER SUBSTANTIAL COMPLETION

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.4.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be

sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located except that, if the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 SUCCESSORS AND ASSIGNS

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

§ 13.3 WRITTEN NOTICE

Written notice shall be deemed to have been duly served if delivered in person to the individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

§ 13.4 RIGHTS AND REMEDIES

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Architect or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

§ 13.5 TESTS AND INSPECTIONS

§ 13.5.1 Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating their cost to the Contractor.

§ 13.5.2 If the Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure including those of repeated procedures and compensation for the Architect's services and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.6 INTEREST

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

§ 13.7 TIME LIMITS ON CLAIMS

The Owner and Contractor shall commence all claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in the Agreement within the time period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with this Section 13.7.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 TERMINATION BY THE CONTRACTOR

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

- .1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- .2 An act of government, such as a declaration of national emergency that requires all Work to be stopped;
- .3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- .4 The Owner has failed to furnish to the Contractor promptly, upon the Contractor's request, reasonable evidence as required by Section 2.2.1.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, including reasonable overhead and profit, costs incurred by reason of such termination, and damages.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' written notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the above reasons exist, the Owner, upon certification by the Initial Decision Maker that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- .1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- .2 Accept assignment of subcontracts pursuant to Section 5.4; and
- .3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

- .1 that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- .1 cease operations as directed by the Owner in the notice;
- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 CLAIMS

§ 15.1.1 DEFINITION

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 15.1.2 NOTICE OF CLAIMS

Claims by either the Owner or Contractor must be initiated by written notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party must be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3 CONTINUING CONTRACT PERFORMANCE

Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents. The Architect will prepare Change Orders and issue Certificates for Payment in accordance with the decisions of the Initial Decision Maker.

§ 15.1.4 CLAIMS FOR ADDITIONAL COST

If the Contractor wishes to make a Claim for an increase in the Contract Sum, written notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.5 CLAIMS FOR ADDITIONAL TIME

§ 15.1.5.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.5.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction.

§ 15.1.6 CLAIMS FOR CONSEQUENTIAL DAMAGES

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

- .1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- .2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.6 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 INITIAL DECISION

§ 15.2.1 Claims, excluding those arising under Sections 10.3, 10.4, 11.3.9, and 11.3.10, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim arising prior to the date final payment is due, unless 30 days have passed after the Claim has been referred to the Initial Decision Maker with no decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of such request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of an initial decision, demand in writing that the other party file for mediation within 60 days of the initial decision. If such a demand is made and the party receiving the demand fails to file for mediation within the time required, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 MEDIATION

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.6 shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 ARBITRATION

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 CONSOLIDATION OR JOINDER

§ 15.4.4.1 Either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Either party, at its sole discretion, may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as the Owner and Contractor under this Agreement.

Additions and Deletions Report for

AIA® Document A201® – 2007

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 16:15:49 ET on 12/19/2022.

PAGE 1

West Virginia State Capitol Building North Stair Repair Project-Phase II
1900 Kanawha Boulevard East, Building No. 1
Charleston, West Virginia 25305

...

(Name, legal status and address)

State of West Virginia
Department of Administration
General Services Division (GSD)
218 California Avenue
Charleston, West Virginia 25305

...

(Name, legal status and address)

WDP & Associates Consulting Engineers, Inc.
33 Summers Hospital Road
Hinton, West Virginia 25951

Certification of Document's Authenticity

AIA® Document D401™ – 2003

I, _____, hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 16:15:49 ET on 12/19/2022 under Order No. 2114393114 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document A201™ – 2007, General Conditions of the Contract for Construction, as published by the AIA in its software, other than those additions and deletions shown in the associated Additions and Deletions Report.

(Signed)

(Title)

(Dated)

State of West Virginia

Supplementary Conditions to AIA Document A201-2017
General Conditions of the Contract for Construction

The following Supplementary Conditions modify the General Conditions of the Contract for Construction, AIA Document A201, 2017 Edition. Where a portion of the General Conditions is modified or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect.

Order of Precedence: The documents contained in the contract to which this document has been attached shall be interpreted in the following order of precedence:

First Priority – Documents developed by the State or agency and utilized to provide public notice of the solicitation, along with other general terms and conditions shall be first in priority.

Second Priority – This document "Supplementary Conditions to the AIA Document A201-2017 General Conditions of the Contract for Construction" shall be second in priority.

Third Priority – all other AIA documents including, but not limited to, the AIA Document A201-2017 General Conditions of the Contract for Construction and the A101-2017 Standard Form of Agreement Between Owner and Contractor (when utilized) shall be third or lower in priority.

ARTICLE 1
GENERAL PROVISIONS

Add the following Section to Article 1:

§1.05 PARTY RELATIONS

§1.05 The Owner and their consultants, the Architect and their Consultants, and the Contractor and their Subcontractors agree to proceed with the Work on the basis of mutual trust, good faith and fair dealing.

§1.1 BASIC DEFINITIONS

§1.1.1 THE CONTRACT DOCUMENTS

§1.1.1 Delete the last sentence of this Section and substitute the following:

The Contract Documents also include the Bidding Documents (Advertisement or Invitation to Bid, Request for Quotations/Bids, Instructions to Bidders, Form of Proposal, Bid Bond and Sample Forms), Performance Bond, Payment Bond, Maintenance Bond (if applicable), Certificates of Insurance, Special Provisions For Disadvantaged and Women Business Enterprise Utilization (if bound herein).

§1.1.2 THE CONTRACT

§1.1.2 Make the following changes to Section 1.1.2:

In the last sentence, insert "and the Contractor" after "The Architect" and delete "the Architect's" and insert "their respective".

§1.2 Correlation and intent of Contract Documents

§1.2.1.1 In the second sentence, remove "any law" and insert "West Virginia law or any applicable federal law". In the last sentence, remove "by law" and insert "West Virginia law or any applicable federal law".

§1.7 Digital Data Use and Transmission

§1.7 Delete the last sentence of this section in its entirety.

§1.8 Building Information Models Use and Reliance

§ 1.8 Remove this section in its entirety and replace it with the following:

"Any use of, or reliance on, all or a portion of a building information model must be approved in advance by Owner and will only be permitted if the Parties have agreed upon and executed written documents to memorialize protocols governing the use of, and reliance on, the information contained in the model."

ARTICLE 2
OWNER

§2.1 GENERAL

§ 2.1.1 Add the following after the last sentence:

Notwithstanding the foregoing, the parties understand that since Owner is a government entity, change orders will often require approval by entities in addition to owner. When owner is a state agency, those entities may include, but are not limited to, the West Virginia Attorney General's Office and the West Virginia Purchasing Division. Additionally, approval may be required by agencies providing project funding, including but not limited to, West Virginia School Building Authority and agencies of the United States federal government.

§2.1.2 Delete Section 2.1.2 in its entirety.

§2.1 Add the following Section to 2.1:

§2.1.3 The Owner and the agency funding the project reserve the right to maintain a full time or part time project representative (sometimes referred to as the "Clerk of the Works") at the project site who shall keep the Owner informed of the progress and quality of the Work and responsibilities. The Contractor shall cooperate and assist the Clerk of the Works in the performance of his/her duties. The Clerk of the Works will not interfere with or be responsible for the Contractor's supervision and direction of the Work, and the Contractor's means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work. The Clerk of the Works may facilitate communications between the Owner, Architect, and Contractor but has no authority to make decisions for the Owner, approve modifications to the Contract Documents, the Contract Time, or Contract Sum. Additionally, Contractor is not permitted to rely on or consider decisions made by the Clerk of the Works on behalf of Owner

§2.2 Evidence of the Owner's Financial Arrangements: Delete § 2.2 and all of its subsections in its entirety.

§2.3 Information and Services Required of Owner

§2.3.2 Make the following changes to Section 2.3.2:

In first sentence, delete the period and add ", when required pursuant to West Virginia Code §30-12-1 et seq." Add the following sentence at the end of Section 2.3.2: "If the Owner does not retain an architect lawfully licensed to practice architecture or an entity lawfully practicing architecture in the jurisdiction where the Project is located, the Owner will appoint an individual to assume the role and obligations of the Architect pursuant to this Agreement."

§2.3.3 Delete this section in its entirety.

§2.3.4 Delete the last sentence of Section 2.3.4 and substitute the following:

The Contractor shall confirm the locations of each utility. If the Owner has provided geotechnical and other tests to determine subsurface conditions, the Owner will provide such documents to the Contractor; the Contractor acknowledges that it will make no claims for any subsurface or any other conditions revealed by these tests.

ARTICLE 3
CONTRACTOR

§3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§3.2.2 Add the following sentence to the end of Section 3.2.2:

Claims by Contractor resulting from its failure to familiarize itself with the site shall be deemed waived. Additionally, by submitting a bid or otherwise entering into this contract, Contractor acknowledges that it has reviewed and understands the contract documents and the work required by those documents. Any claims arising from Contractor's failure to review and understand the contract documents shall be deemed waived.

§3.2.3 Delete Section 3.2.3 in its entirety and substitute the following:

§3.2.3 The Contractor acknowledges its continuing duty to review and evaluate the Construction Documents during performance of its services and shall immediately notify the Owner and the Architect about any problems, conflicts, defects, deficiencies, inconsistencies or omissions it discovers in or between the Construction Documents; and variances it discovers between the Construction Documents and applicable laws, statutes, building codes, rules and regulations.

§ 3.2.4 Add the following clauses to Section 3.2.4:

§3.2.4.1 If the Contractor performs any Work which it knows or should have known involves a recognized problem, conflict, defect, deficiency, inconsistency or omission in the Construction Documents; or a variance between the Construction Documents and requirements of applicable laws, statutes, building codes, rules and regulations, without notifying the Owner and the Architect prior to receiving written authorization from the Architect to proceed, the Contractor shall be responsible for the consequences of such performance.

§3.2.4.2 Before ordering any materials or doing any Work, the Contractor and Subcontractors shall verify all measurements at the site and shall be responsible for the correctness of same. Discrepancies shall be reported in writing to the Architect prior to proceeding with the Work. No extra charge or compensation will be

entertained due to differences between actual measurements and dimensions indicated on the drawings, if such differences do not result in a change in the scope of Work or if the Architect failed to receive written notice before the Work was performed.

§3.4 LABOR AND MATERIALS

§3.4.1 Vendor must review and comply with the following statutory requirements affecting public construction projects, as well as any other applicable laws that are not referenced herein:

- W. Va. Code § 5-19-1 *et seq.*, relating to domestic steel preference.
- W. Va. Code § 5A-3-56 relating to domestic steel preference, provided that the Owner is a state agency subject to Chapter 5A, Article 3 of the W. Va. Code.
- W. Va. Code § §21-1C-1 *et seq.*, relating to local hiring preference
- W. Va. Code §21-1D-1 *et seq.*, relating to drug free workplace requirements.

§3.4 Add the following Sections to 3.4:

§3.4.4 Where materials and equipment are to be provided by the Owner under the Contract Documents, the Contractor shall notify the Owner in writing as to when materials and equipment are required on the project site in sufficient time to avoid delay in the Work.

§3.4.5 The Contractor shall employ labor on the Project or in connection with the Work, capable of working harmoniously with all trade crafts and any other individuals associated with the Project. The Contractor shall also use its best efforts and implement policies and practices to minimize the likelihood of any strike, work stoppage or other labor disturbance. Except as specifically provided in this Agreement, Contractor shall not be entitled to any adjustment in the Contract sum or Contract time and shall be liable to the Owner for all damages suffered by the Owner occurring as a result of work stoppages, slowdowns, disputes, or strikes by the work force of or provided by Contractor or its Subcontractors.

§3.5 WARRANTY

§3.5 Add the following sentence at the end of Section 3.5:

The Contractor agrees to assign to the Owner at time of Final Completion of the Work, any and all manufacturer's warranties relating to materials and labor used in the Work and further agrees to perform the Work in such a manner so as to preserve any and all such warranties.

§3.8 ALLOWANCES

§3.8.3 Make the following change to Section 3.8.3:

§3.8.3 Delete "with reasonable promptness" and insert "in sufficient time to avoid delay in the Work."

Add the following Section to 3.8:

§3.8.4 The Contractor shall promptly submit to the Owner an itemized account of any expenditure by the Contractor of the Contract allowance in sufficient detail to allow the Owner to properly account for such expenditure.

§3.9 SUPERINTENDENT/PROJECT MANAGER

§3.9.1 Add the following sentence to the end of Section 3.9.1:

The Contractor may also employ a competent project manager.

§3.9.2 Make the following changes to Section 3.9.2:

In the first sentence, add "and project manager, if applicable" after "superintendent." In the second sentence, add "or project manager, if applicable," after "superintendent."

§3.9.3 Make the following changes to Section 3.9.3:

In the first sentence, add "or project manager, if applicable," after "superintendent." In the second sentence, add "or project manager, if applicable," after "superintendent."

§3.9 Add the following Section to 3.9:

§3.9.4 The Owner shall have the right, at any time, to direct a change in the Contractor's representatives if their performance is deemed unsatisfactory.

§3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§3.10.1 Make the following changes to Section 3.10.1:

In the first sentence, delete the word "promptly" and substitute "by the earliest reasonable date".

Add the following sentence to the end of Section 3.10.1: "The Contractor shall submit an updated construction schedule with each payment application, unless waived by the Owner."

Add the following Sections to 3.10:

§3.10.4 At any time after the first thirty (30) days of the Contract Time, if it is found that the project is two (2) weeks or more behind schedule, beyond approved time extensions, or if at any time during

the last thirty (30) days of the scheduled Contract Time the Contractor is one (1) week or more behind schedule, the Contractor shall immediately submit a plan to the Owner describing how the Work will be placed back on schedule within the remaining Contract Time.

§3.10.5 If the Owner and the Architect determine that the performance of the Work during any stage of the construction schedule last approved by the Owner has not progressed or reached the level of completion required by the Contract Documents, the Owner will have the right to order the Contractor to take corrective measures (hereinafter referred to collectively as Extraordinary Measures) necessary to expedite the progress of the Work, including, without limitation: (1) working additional shifts or overtime; (2) supplying additional manpower, equipment and facilities; and (3) other similar measures. Such Extraordinary Measures shall continue until the progress of the Work complies with the last approved construction schedule. The Owner's right to require Extraordinary Measures is solely for the purpose of ensuring the Contractor's compliance with the construction schedule after allowing for approved extensions of Contract Time as provided elsewhere in this Agreement. The Contractor is not entitled to an adjustment in the Contract Sum in connection with any Extraordinary Measures required by the Owner. The Owner may exercise its rights under this Section as frequently as the Owner deems necessary to ensure that the Contractor's performance of the Work will comply with the construction schedule.

§3.11 DOCUMENTS AND SAMPLES AT THE SITE

§3.11 Insert the following sentence at the end of Section 3.11:

The Contractor's compliance with this Section 3.11 shall be a condition precedent to any obligation of the Owner to make Final Payment pursuant to this Agreement.

§3.15 CLEANING UP

§3.15.2 Delete Section 3.15.2 in its entirety and substitute the following:

§3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and may withhold such reasonable costs as necessary for the fulfillment of the Contractor's obligation under this Section 3.15. If the reasonable costs of such cleaning exceed the Contract Sum then due the Contractor, the Contractor shall reimburse the Owner the difference within thirty (30) consecutive calendar days of the Owner's written request.

Any materials, tools, supplies, or other personal property left by the Contractor shall be deemed abandoned property and the Owner shall have no obligation to hold or store the property on behalf of Contractor and may dispose of the abandoned property as if it were property of the State of West Virginia. Provided however, that prior to treating property as abandoned and disposing of it, Owner must

first provide Contractor with 10 days notice of its intent to do so. If any materials, tools, supplies or other personal property belong to a subcontractor, then Contractor is obligated to communicate this notice to its subcontractor immediately.

§3.15 Add the following Section to 3.15:

§3.15.3 In order to achieve Substantial Completion, as defined by Section 9.8, for any portion of the Work, the Contractor must have the area where the Work is located fully cleaned and all materials and/or debris removed from site. The Certificate of Substantial Completion will not be issued until the Contractor has met this obligation.

ARTICLE 4 ARCHITECT

§4.1 GENERAL

§4.2 ADMINISTRATION OF THE CONTRACT

§4.2 Make the following changes to Section 4.2:

§4.2.1 In the first sentence of Section 4.2.1 after the word Architect add ", unless otherwise indicated by the Owner,".

§4.2.2 In the first sentence of Section 4.2.2 strike the word "generally."

§4.2.3 In the first sentence of Section 4.2.3 strike the word "reasonably."

§4.2.5 Add the following sentence at the end of Section 4.2.5:

The Architect upon receipt of an Application for Payment from the Contractor shall either review and certify such amounts due for payment or return such Application for Payment to the Contractor for correction(s) within five (5) consecutive business days of receipt.

§4.2.7 Delete the first sentence of Section 4.2.7 and substitute the following:

The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples for the purpose of checking for conformance with the Contract Documents.

Modify the second to last sentence by removing it in its entirety and replacing it with the following: The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures, unless the Architect has established the required construction means, methods, techniques, sequences, or procedures, or the Contract Documents require such approval.

§4.2.8 Make the following change to Section 4.2.8:

In the first sentence, after the word Architect add ", in consultation with the Owner,".

**ARTICLE 5
SUBCONTRACTORS**

§5.2 Award of Subcontracts and Other Contracts for Portions of Work

§5.2.1 Add the following sentence to Section 5.2.1.

This provision in no way limits the Contractor's legal obligations to report subcontractors and labor/material suppliers under W. Va. Code § 5-22-1(f) and obtain approval under W. Va. Code § 5-22-1(g) prior to any subcontractor substitution.

§5.4 Contingent Assignment of Subcontracts: This section is removed in its entirety and replaced with the following:

§5.4 Emergency Contracts with Subcontractors:

In the event that the general contractor fails to fulfill its contractual obligations and the performance bond has failed to provide an adequate remedy, Owner has the right to execute emergency contracts with subcontractors to ensure continuation of the work, provided that doing so is in compliance with the laws, rules, and procedures governing emergency contracting authority for Owner, and the emergency contract terms comply with all other applicable laws, rules, and procedures.

**ARTICLE 7
CHANGES IN THE WORK**

§7.1 General

§7.1.2. In Section 7.1.2. remove the word "alone" and insert "with approval by the Owner."

§7.2 CHANGE ORDERS

§7.2 Add the following Section to 7.2:

§7.2.2 A written Change Order as defined under 7.2.1 above constitutes a final settlement of all matters relating to the change in the Work which is the subject of the Change Order, including, but not limited to general conditions, all direct or indirect costs associated with such change and any and all adjustment to the Contract Sum and Contract Time. The parties also understand and agree that if Owner is a state agency, change orders may require approval by entities in addition to Owner. Those entities may include, but are not limited to, the West Virginia Purchasing Division, and the West Virginia Attorney General's Office. Owner

and Contractor must discuss the change order approval requirements prior to executing this agreement.

Add the following section to § 7.2

§7.2.3. Allowance for Overhead and Profit: Contractor's overhead and profit for a change order issued under this Article included in the total cost to the Owner shall not exceed based on the following schedule:

.1 For the Contractor, for any Work performed by the Contractor's own forces, fifteen percent (15%) of the cost.

.2 For the Contractor, for Work performed by the Contractor's Subcontractor, ten percent (10%) of the amount due the Subcontractor.

.3 For each Subcontractor or Sub-Subcontractor involved, for any Work performed by that Subcontractor's own forces, fifteen percent (15%) of the cost.

.4. For each Subcontractor, for Work performed by the Subcontractor's Sub-subcontractors, ten percent (10%) of the amount due the Sub-subcontractor.

.5 Cost to which overhead and profit is to be applied shall be determined in accordance with Section 7.3.7. Estimated labor hours shall include hours only for those workmen and working foremen directly involved in performing the Change Order work. Supervision above the level of working foremen (such as general foremen, superintendent, project manager, etc.) is considered to be included in the allowance for Overhead and Profit. Hand tools are defined as equipment with a value of \$1,000 or less. For Contractor owned equipment, the "bare" equipment rental rates allowed to be used for pricing Change Order proposals shall be not more than the monthly rate listed in the most current publication of The AED Green Book divided by 176 to arrive at a maximum hourly rate to be applied to the hours the equipment is used performing the Change Order work.

.6 In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, material, equipment and Subcontractors. Details to be submitted will include detailed line item estimates showing detailed materials quantity take-offs, material prices by item and related labor hour pricing information and extensions (by line item or by drawing as applicable.) Where major cost items are Subcontracts, they shall also be itemized as prescribed above. In no case will a change involving over \$10,000 be approved without such an itemization.

.7 Local Business and Occupation Taxes, if applicable, shall be calculated on the cost of the Work, overhead and profit.

.8 Overhead and profit shall not be calculated on changes in the Work involving unit prices. Unit prices are to have overhead and profit included in the price quoted.

.9 Under no circumstances is Contractor permitted to charge for the passage of time (often referred to as general conditions or winter conditions) without an identified, itemized, and concretely provable cost borne by Contractor. Contractor has a duty to mitigate costs during a delay period to the fullest extent possible and Contractor will not be paid for costs that could have been mitigated. Calculating a daily delay rate without properly identifying, itemizing, and proving actual, unmitigateable costs, is prohibited. Contractor understands and accepts that it has the responsibility to prove that costs could not be mitigated prior to submitting a request for payment.

§7.3 CONSTRUCTION CHANGE DIRECTIVES

§7.3.4 Make the following change in Section 7.3.4:

In the fourth line of the first sentence, delete the words "an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount" and substitute "an allowance for overhead and profit in accordance with clauses 7.3.11.1 through 7.3.11.9 below."

§7.3.7 Delete the word "recorded" and replace it with "processed".

§7.3.9 Delete Section 7.3.9 in its entirety and substitute the following:

§7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, amounts not in dispute for such changes in the Work shall be included in Applications for Payment provided these amounts have been added to the Contract by Change Order and a purchase order has been issued for the Change Order.

§7.3.10 Add the following sentence to the end of Section 7.3.10:

The Parties will utilize their best efforts to issue a change order within 60 days of agreement being reached, but failure to do so will not give rise to grounds for contract cancellation, penalties, or any other cause of action.

Add the following Section to 7.3:

§7.3.11 In Section 7.3.7, the allowance for overhead and profit for a change directive issued under this Article included in the total cost to the Owner shall not exceed the following schedule:

.1 For the Contractor, for any Work performed by the Contractor's own forces, fifteen percent (15%) of the cost.

.2 For the Contractor, for Work performed by the Contractor's Subcontractor, ten percent (10%) of the amount due the Subcontractor.

.3 For each Subcontractor or Sub-Subcontractor involved, for any Work performed by that Subcontractor's own forces, fifteen percent (15%) of the cost.

.4. For each Subcontractor, for Work performed by the Subcontractor's Sub-subcontractors, ten percent (10%) of the amount due the Sub-subcontractor.

.5 Cost to which overhead and profit is to be applied shall be determined in accordance with Section 7.3.7. Estimated labor hours shall include hours only for those workmen and working foremen directly involved in performing the Change Order work. Supervision above the level of working foremen (such as general foremen, superintendent, project manager, etc.) is considered to be included in the allowance for Overhead and Profit. Hand tools are defined as equipment with a value of \$1,000 or less. For Contractor owned equipment, the "bare" equipment rental rates allowed to be used for pricing Change Order proposals shall be not more than the monthly rate listed in the most current publication of The AED Green Book divided by 176 to arrive at a maximum hourly rate to be applied to the hours the equipment is used performing the Change Order work.

.6 In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, material, equipment and Subcontractors. Details to be submitted will include detailed line item estimates showing detailed materials quantity take-offs, material prices by item and related labor hour pricing information and extensions (by line item or by drawing as applicable.) Where major cost items are Subcontracts, they shall also be itemized as prescribed above. In no case will a change involving over \$10,000 be approved without such an itemization.

.7 Local Business and Occupation Taxes, if applicable, shall be calculated on the cost of the Work, overhead and profit.

.8 Overhead and profit shall not be calculated on changes in the Work involving unit prices. Unit prices are to have overhead and profit included in the price quoted.

.9 Under no circumstances is Contractor permitted to charge for the passage of time (often referred to as general conditions or winter conditions) without an identified, itemized, and concretely provable cost borne by Contractor. Contractor has a duty to mitigate costs during a delay period to the fullest extent possible and Contractor will not be paid for costs that could have been mitigated. Calculating a daily delay rate

without properly identifying, itemizing, and proving actual, unmitigateable costs, is prohibited. Contractor understands and accepts that it has the responsibility to prove that costs could not be mitigated prior to submitting a request for payment.

§7.4 Minor Changes in Work. Insert the following sentence at the end of section 7.4:

"Contractor may request that Architect provide written confirmation that Owner has agreed to the minor change, and if requested, Architect will provide it."

ARTICLE 8 **TIME**

§8.3 DELAYS AND EXTENSIONS OF TIME

§8.3.1 In the first sentence, delete "unusual delay in deliveries," and add "unmitigatable costs attributable to" before the words "adverse weather conditions."

ARTICLE 9 **PAYMENTS AND COMPLETION**

§9.1 Contract Sum

§9.1.2 Add the following sentence to the end of section 9.1.2:

"Any equitable adjustment of unit prices must be processed as a change order to the contract"

§9.2 SCHEDULE OF VALUES

§9.2 Make the following changes to Section 9.2:

In the first sentence add "and the Owner" after the first reference to the Architect. In the second sentence add "or the Owner" after Architect. Remove the last sentence in its entirety and replace it with the following:

"Any changes to the schedule of values shall be submitted to the Architect and the Owner and supported by such data to substantiate its accuracy as the Architect or owner may require. This schedule, unless objected to by the Architect or the Owner, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment."

§9.3 APPLICATIONS FOR PAYMENT

§9.3 Make the following changes to Section 9.3:

§9.3.1 In the first sentence add "and the Owner" after the first reference to the Architect and add "and other required documents" after the words "schedule of values."

§9.3.1.1 Delete clause 9.3.1.1 in its entirety and substitute the following:

§9.3.1.1 Such applications may include requests for payment on account of changes in the Work authorized by Construction Change Directives and Change Orders only after a purchase order has been issued for the Work affected.

§9.3.1 Add the following clauses to Section 9.3.1:

§9.3.1.3 Until the Work is fifty percent (50%) complete, the Owner will withhold as retainage 10% of the amount due the Contractor on account of progress payments. At the time the Work is fifty percent (50%) complete and thereafter, if the manner of completion of the Work and its progress are and remain satisfactory to the Owner and Architect, and in the absence of other good and sufficient reasons, the Architect will, on presentation by the Contractor of Consent of Surety, authorize any remaining partial payments to be paid in full.

§9.3.1.4 The full Contract retainage may be reinstated if the manner of completion of the Work and its progress do not remain satisfactory to the Owner and Architect, if the Surety withholds its consent, or for other good and sufficient reasons.

§9.4 CERTIFICATES FOR PAYMENT

§9.4.1 After the phrase "in the full amount of the Application for Payment," insert the phrase "less any retainage withheld pursuant to section 9.3.1.3,".

§9.6 PROGRESS PAYMENTS

§9.6.7 Delete Section 9.6.7 in its entirety.

§9.6.8 Delete Section 9.6.8 in its entirety.

§9.7 FAILURE OF PAYMENT

§9.7 Make the following changes in Section 9.7:

In line two, change "seven days" to "sixty days." In line four, delete "binding dispute resolution" and substitute "the West Virginia Claims Commission"

§9.8 SUBSTANTIAL COMPLETION

§9.8.3 Add the following clause to Section 9.8.3:

If Architect is required to perform more than one inspection under this subsection, Contractor shall be responsible for paying the Owner for the cost of the additional inspection, which will be paid by Owner to Architect, at the hourly rate established in the contract between Owner and Architect.

§9.8.5 Add the following clause to Section 9.8.5:

§9.8.5.1 The payment of retainage shall be sufficient to increase the total payments to ninety-five percent (95%) for the Work or designated portion thereof being accepted as Substantially Complete, less any amounts as the Architect shall determine for any Work that is not complete, not in accordance with the Contract Documents, or for unsettled claims.

§9.10 FINAL COMPLETION AND FINAL PAYMENT

§9.10.1 Add the following to the end of Section 9.10.1:

If Architect is required to perform more than one inspection under this subsection, Contractor shall be responsible for paying the Owner for the cost of the additional inspection, which will be paid by Owner to Architect, at the hourly rate established in the contract between Owner and Architect.

§9.10.2 Make the following changes in Section 9.10.2:

In the first sentence, delete "for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner)."

Add the following clause to Section 9.10.2:

§9.10.2.1 Before final payment is due the Contractor, all applicable State and local taxes must be paid. If requested by the Owner, the Contractor shall present evidence that payment or satisfaction of all such tax obligations has been made.

§9.10.3 Add the following clause to Section 9.10.3:

9.10.3.1 Unless and to the extent final completion is delayed through no fault of the Contractor as provided in Section 9.10.3, the Owner shall be under no obligation to increase payments above ninety-five percent (95%) until final completion of the Work is Certified by the Architect.

§9.10.4 Make the following changes in Section 9.10.4:

In the first sentence, delete the word "the" and replace it with "Unless and until the Contractor makes a subsequent Claim against the Owner, the".

Add the following as the last sentence. "Neither the Owner's offer of a final payment nor its acceptance by the Contractor shall legally prevent or limit the Owner's right to assert any and all counterclaims in litigation filed by the Contractor as allowed in section 15.1.8."

Add the following Sections to Article 9:

§9.11 LIQUIDATED DAMAGES

§9.11.1 The Owner will suffer financial loss if the Work is not Substantially Complete within the Contract Time as defined in Article 8, and if final completion is not achieved within the specified time frame following Substantial Completion. As liquidated damages, and not as a penalty, the Contractor and the Contractor's surety shall be liable for and shall pay the Owner the sum(s) stated in this Agreement and/or purchase order.

§9.11.2 Allowances may be made for delays due to shortages of materials and/or energy resources, subject to proof by documentation, and also for delays due to strikes or other delays beyond the control of the Contractor. All delays and any claim for extension of Contract Time must be properly documented in accordance with Section 15.1.5 by the Contractor and must be made within the time limits stated in Section 15.1.2.

ARTICLE 10

PROTECTION OF PERSONS AND PROPERTY

§10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY

§10.2.8 Make the following changes to Section 10.2.8:

In the first sentence, delete "within a reasonable time not exceeding 21 days" and substitute "immediately".

§10.3 HAZARDOUS MATERIALS

§10.3.3 Delete Section 10.3.3 in its entirety.

ARTICLE 11

INSURANCE AND BONDS

§11.1 CONTRACTOR'S LIABILITY INSURANCE

§11.1.2 Add the following to the end of §11.1.2.

At a minimum the Contract shall provide, at the Contractor's Expense:

§11.1.2.1. a Performance Bond and a Labor and Material Payment Bond for 100% of the Contract Sum and, if applicable, a two-year roofing Maintenance Bond for the full value of the roofing system.

§11.1.2.2 An attorney-in-fact who executes the bonds on behalf of the surety shall affix thereto a certified and current copy of power of attorney.

§11.1.2.3 The bonds shall be issued on State of West Virginia forms. The Contractor shall deliver the required bonds and all other contract documents to the Owner not later than 15 days following receipt of the Owner's notice of intent to award a Contract.

§11.2 Owner's Insurance Delete section 11.2 in its entirety.

§11.4 Loss of Use, Business Interruption, and Delay in Completion Insurance

§11.4 Section 11.4 is deleted in its entirety.

§11.5.1 Make the following changes in Section 11.5.1:

In the first sentence, substitute "Contractor" for "Owner" each time the latter word appears.

§11.5.2 Delete Section 11.5.2 in its entirety and substitute the following:

§11.5.2 Prior to settlement of insured loss, the Contractor shall notify the parties of the terms of the proposed settlement as well as the proposed allocation of the insurance proceeds. The parties shall have 14 days from the receipt of notice to object. If no objection is made, the Contractor shall proceed as proposed and allocate the settlement accordingly. If such objection is made, the dispute shall be resolved as provided in Section 15.4. The Contractor, in that case, shall make settlement with insurers in accordance with directions of the Court. If distribution of the insurance proceeds as directed by the Court is required, the Court will direct such distribution. Any work to repair the damage will be incorporated into the contract as a change order.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§13.4 TESTS AND INSPECTIONS

§13.4.1 Remove the phrase "so require" and insert in its place "prohibit delegation of the test to Contractor"

§13.6 INTEREST

§13.6 Delete Section 13.5 in its entirety and substitute the following:

Notwithstanding any other provision in the Contract Documents, West Virginia Code does not authorize the payment of interest on late payments. Accordingly, interest charges for late payment are prohibited.

Add the following Sections to Article 13:

§13.6 WORKERS COMPENSATION

The Contractor shall provide proof of compliance with West Virginia Worker's Compensation laws and regulations.

§13.7 CONTRACTOR'S LICENSE

§13.7.1 West Virginia Code §21-11-2 requires that all persons desiring to perform contractual work in West Virginia shall be duly licensed. The West Virginia Contractor's Licensing Board is empowered to issue a contractor's license.

§13.7.2 West Virginia Code §21-11-11 requires any prospective Bidder to include the Bidder's contractor's license number on its Bid. The successful Bidder will be required to furnish a copy of its contractor's license in a classification appropriate to the Work prior to issuance of a purchase order/contract.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§14.1 TERMINATION BY THE CONTRACTOR

§14.1.1 Make the following changes in Section 14.1.1:

At the end of clause 14.1.1.3 delete "; or" and insert a period.

Delete clause 14.1.1.4 in its entirety.

§14.1.3 Delete Section 14.1.3 in its entirety and substitute the following:

§14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exist, the Contractor may, upon seven days written notice to the Owner and Architect, terminate the Contract. In such event, the Contractor shall be paid for all Work performed in accordance with the Contract Documents, for reasonable and proven termination expenses and a reasonable allowance for overhead and profit. However, such payment, exclusive of termination expenses, shall not exceed the Contract Sum as reduced by other payments made to the Contractor and further reduced by the value of Work as yet not completed. The Contractor shall be entitled to reasonable overhead, but not profit, on Work not performed.

§14.2 TERMINATION BY THE OWNER FOR CAUSE

§14.2.4 Delete Section 14.2.4 in its entirety and substitute the following:

§14.2.4 If the unpaid balance of the Contract Sum exceeds the cost of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other

damages incurred by the Owner and not expressly waived, such excess shall not be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Owner shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§14.4.1 Delete Section 14.4.1 in its entirety and substitute the following:

§14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause upon thirty days written notice.

§14.4.3 Delete Section 14.4.3 in its entirety and substitute the following:

§14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment from the Owner on the same basis provided in Section 14.1.3 above.

Add the following Section to Article 14:

§14.5 FISCAL YEAR FUNDING

§14.5 Work performed under this Contract is to continue in the succeeding fiscal year contingent upon funds being appropriated by the Legislature for this Work. In the event funds are not appropriated for this Work, this Contract becomes of no effect and is null and void after June 30.

ARTICLE 15 CLAIMS AND DISPUTES

§15.1 Claims

§15.1.2 TIME LIMITS ON CLAIMS

§15.1.2 Delete Section 15.1.2 in its entirety and substitute the following:

Any applicable statute of limitations shall be in accordance with West Virginia Code.

§15.1.3 **NOTICE OF CLAIMS** Add the following to § 15.1.3:

§15.1.3.3 All claims, and notice of claims that require an increase in contract time, contract scope, or contract sum must be made in writing.

§ 15.1.8 is added to the Contract as follows:

§ 15.1.8 Counterclaims – In the event that Contractor makes a claim, Owner reserves the right to make a counterclaim and will not be barred from doing so even if final payment has been made.

§15.2 INITIAL DECISION

§15.2.1 In the third sentence of Section 15.2.1, insert "or litigation" following the word "mediation" and remove the phrase "binding dispute resolution" and replace it with "or litigation".

§15.2.5 Delete the last sentence in Section 15.2.5 and substitute the following:

Approval or rejection of a claim by the Initial Decision Maker shall be final and binding on the parties unless it is pursued further by either party in accordance with Section 15.2.6.

§15.2.6 Make the following change to clause 15.2.6.1:

In the last sentence, delete "or pursue binding dispute resolution proceedings."

§15.2.8 Delete Section 15.2.8 in its entirety.

§15.3 MEDIATION

§15.3.1 Delete "binding dispute resolution" and substitute "litigation in a court of competent jurisdiction."

§15.3.2 Delete Section 15.3.2 in its entirety and substitute the following:

§15.3.2 The parties shall endeavor to resolve their Claims by non-binding mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement.

§ 15.3.3 Remove section 15.3.3 in its entirety

§15.4 ARBITRATION

§15.4 Delete Section 15.4 in its entirety and substitute the following:

§15.4 SETTLEMENT OF CLAIMS

§15.4.1 The Constitution of West Virginia grants the State sovereign immunity from any and all Claims against the public treasury. This immunity applies and is extended to all agencies of the State, including the Owner. It shall be in full force and effect as it relates to this Contract. The West Virginia Legislature, recognizing that certain Claims against the State may constitute a moral obligation of the State and should be heard, has established the West Virginia Claims Commission for this purpose. The Parties understand that this sovereign immunity and the Constitution of the

State of West Virginia prohibit the State and Owner, from entering into binding arbitration. Notwithstanding any provision to the contrary in the Contract Documents, all references to arbitration, regardless of whether they are included in the AIA Document A201-2017 or another related document are hereby deleted and all Claims of the Contractor for monetary relief, and only of the Contractor, arising out of or related to this Contract shall be decided by the West Virginia Claims Commission. The following Sections have been rewritten to bring them into conformance with the foregoing.

§15.4.2 Claims by the Owner may be brought against the Contractor in the Circuit Court of Kanawha County, West Virginia, or in any other court that has jurisdiction, as the Owner may elect.

§15.4.3 Any Claim arising out of or related to the Contract, except Claims relating to aesthetic effect and except those waived as provided for in Sections 15.1.6, 9.10.4 and 9.10.5, shall, within 30 days after submission of the decision by the Initial Decision Maker, be settled for the Contractor by the West Virginia Claims Commission or, for the Owner, by the Circuit Court of Kanawha County or any other court of jurisdiction as the Owner may elect.

§15.4.4 Notice of such action shall be filed in writing with the other party to the Contract, and a copy of such notice shall be filed with the Initial Decision Maker and the Architect, if applicable.

§15.4.5 During court proceedings, the Owner and the Contractor shall comply with Section 15.1.3.

§15.4.6 Claims shall be made within the time limits specified in Section 15.2.6.1.

§15.4.7 The party filing a Claim must assert in the demand all Claims then known to that party on which action is permitted.

Add the following Article:

ARTICLE 16 EQUAL OPPORTUNITY

§16.1 COMPLIANCE WITH REGULATIONS UNDER TITLE VI OF THE FEDERAL CIVIL RIGHTS ACT OF 1964 AND EXECUTIVE ORDER 65-2 BY THE GOVERNOR OF WEST VIRGINIA DATED DECEMBER 15, 1965

§16.1.1 The Contractor agrees that it will comply with Title VI of the Federal Civil Rights Act of 1964 (P.L. 88352) and the regulations of the State of West Virginia, to the end that no person in the State, or in the United States, shall on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity for which the Contractor receives any recompense or other consideration of value, either directly or indirectly from the State; and HEREBY GIVES ASSURANCE THAT it will immediately take any measures necessary to effectuate this Agreement.

§16.1.2 If any real property or structure thereon is provided or improved, this assurance shall obligate the Contractor, or in the case of any transfer of such property, any transferee, for the period during which the real property or structure is used for a purpose for which any State payment is extended or for another purpose involving the provision of similar services or benefits. If any other goods or services are so provided, this assurance shall obligate the Contractor for the period during which it supplies such goods or services.

§16.1.3 The Contractor recognizes and agrees that such right to provide property, goods or services to the State will be extended in reliance on the representations and agreements made in assurance, and that the State shall have the right to seek judicial enforcement of this assurance. This is binding on the Contractor, its successors, transferee, and assignee, or any authorized person on behalf of the Contractor.

END OF SUPPLEMENTARY CONDITIONS TO AIA DOCUMENT A201-2017

Any provisions of the Contract Documents that conflict with these Supplementary Conditions shall be null and void unless they have been approved in writing by the applicable State purchasing officer and the Attorney General, and are clearly identified as such in the bid documents.

The Owner and Contractor hereby agree to the full performance of the covenants contained herein.

IN WITNESS WHEREOF, the Owner and Contractor have entered into this Agreement as of the effective date as stated in the A101-2017 (when utilized) or other Contract Documents.

Owner:

Contractor:

By:

By:

Title:

Title:

Date:

Date:

This Supplementary Conditions to AIA Document A201-2017, General Conditions of the Contract for Construction, has been approved as to form on this 20th day of February, 2019, by the West Virginia Attorney General's office as indicated in the signature line below. Any modification of this document is void unless expressly approved in writing by the West Virginia Attorney General's Office.

PATRICK MORRISEY, ATTORNEY GENERAL

BY:


DEPUTY ATTORNEY GENERAL

AIA[®] Document G701[™] – 2017

Change Order

PROJECT: *(name and address)*

CONTRACT INFORMATION:

Contract For:
Date:

CHANGE ORDER INFORMATION:

Change Order Number:
Date:

OWNER: *(name and address)*

ARCHITECT: *(name and address)*

CONTRACTOR: *(name and address)*

The Contract is changed as follows:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

The original (Contract Sum) (Guaranteed Maximum Price) was \$ _____

The net change by previously authorized Change Orders \$ _____

The (Contract Sum) (Guaranteed Maximum Price) prior to this Change Order was \$ _____

The (Contract Sum) (Guaranteed Maximum Price) will be (increased) (decreased) (unchanged) by this Change Order in the amount of \$ _____

The new (Contract Sum) (Guaranteed Maximum Price), including this Change Order, will be \$ _____

The Contract Time will be (increased) (decreased) (unchanged) by () days.

The new date of Substantial Completion will be

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

ARCHITECT *(Firm name)*

CONTRACTOR *(Firm name)*

OWNER *(Firm name)*

SIGNATURE

SIGNATURE

SIGNATURE

PRINTED NAME AND TITLE

PRINTED NAME AND TITLE

PRINTED NAME AND TITLE

DATE

DATE

DATE

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

Application and Certificate for Payment

TO OWNER:

PROJECT:

APPLICATION NO:

DISTRIBUTION TO:

PERIOD TO:

OWNER ☐

CONTRACTOR FOR:

ARCHITECT ☐

CONTRACT DATE:

CONTRACTOR ☐

PROJECT NOS:

FIELD ☐

OTHER ☐

FROM CONTRACTOR:

VIA ARCHITECT:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. AIA Document G703™, Continuation Sheet, is attached.

1. ORIGINAL CONTRACT SUM \$
2. NET CHANGE BY CHANGE ORDERS \$
3. CONTRACT SUM TO DATE (Line 1 ± 2) \$
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$
5. RETAINAGE:

a. _____ % of Completed Work
(Columns D + E on G703)

b. _____ % of Stored Material
(Column F on G703)

Total Retainage (Lines 5a + 5b, or Total in Column I of G703) \$

6. TOTAL EARNED LESS RETAINAGE \$
(Line 4 minus Line 5 Total)
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT \$
(Line 6 from prior Certificate)

8. CURRENT PAYMENT DUE \$
9. BALANCE TO FINISH, INCLUDING RETAINAGE
(Line 3 minus Line 6) \$

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$	\$
Total approved this month	\$	\$
TOTAL	\$	\$
NET CHANGES by Change Order	\$	

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Continuation Sheet

AIA Document G702™-1992, Application and Certificate for Payment, or G732™-2009, Application and Certificate for Payment, Construction Manager as Adviser Edition, containing Contractor's signed certification is attached.

In tabulations below, amounts are in US dollars.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO:

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

[illegible]

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AIA[®] Document G704[™] – 2017

Certificate of Substantial Completion

PROJECT: *(name and address)*

CONTRACT INFORMATION:

Contract For:
Date:

CERTIFICATE INFORMATION:

Certificate Number:
Date:

OWNER: *(name and address)*

ARCHITECT: *(name and address)*

CONTRACTOR: *(name and address)*

The Work identified below has been reviewed and found, to the Architect's best knowledge, information, and belief, to be substantially complete. Substantial Completion is the stage in the progress of the Work when the Work or designated portion is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use. The date of Substantial Completion of the Project or portion designated below is the date established by this Certificate.

(Identify the Work, or portion thereof, that is substantially complete.)

ARCHITECT *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE OF SUBSTANTIAL COMPLETION

WARRANTIES

The date of Substantial Completion of the Project or portion designated above is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below:

(Identify warranties that do not commence on the date of Substantial Completion, if any, and indicate their date of commencement.)

WORK TO BE COMPLETED OR CORRECTED

A list of items to be completed or corrected is attached hereto, or transmitted as agreed upon by the parties, and identified as follows:

(Identify the list of Work to be completed or corrected.)

The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. Unless otherwise agreed to in writing, the date of commencement of warranties for items on the attached list will be the date of issuance of the final Certificate of Payment or the date of final payment, whichever occurs first. The Contractor will complete or correct the Work on the list of items attached hereto within () days from the above date of Substantial Completion.

Cost estimate of Work to be completed or corrected: \$

The responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work, insurance, and other items identified below shall be as follows:

(Note: Owner's and Contractor's legal and insurance counsel should review insurance requirements and coverage.)

The Owner and Contractor hereby accept the responsibilities assigned to them in this Certificate of Substantial Completion:

CONTRACTOR *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE

OWNER *(Firm Name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE



AIA[®] Document G706[™] – 1994

Contractor's Affidavit of Payment of Debts and Claims

PROJECT: *(Name and address)*

ARCHITECT'S PROJECT NUMBER:

OWNER ☐

CONTRACT FOR:

ARCHITECT ☐

CONTRACTOR ☐

TO OWNER: *(Name and address)*

CONTRACT DATED:

SURETY ☐

OTHER ☐

STATE OF:

COUNTY OF:

The undersigned hereby certifies that, except as listed below, payment has been made in full and all obligations have otherwise been satisfied for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or Owner's property might in any way be held responsible or encumbered.

EXCEPTIONS:

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Consent of Surety to Final Payment. Whenever Surety is involved, Consent of Surety is required. AIA Document G707[™], Consent of Surety to Final Payment, may be used for this purpose.

Indicate attachment: ☐ Yes ☐ No

CONTRACTOR: *(Name and address)*

BY:

The following supporting documents should be attached hereto if required by the Owner:

(Signature of authorized representative)

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof
3. Contractor's Affidavit of Release of Liens (AIA Document G706A[™])

(Printed name and title)

Subscribed and sworn to before me on this date:

Notary Public:

My Commission Expires:

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AIA[®] Document G706A[™] – 1994

Contractor's Affidavit of Release of Liens

PROJECT: *(Name and address)*

ARCHITECT'S PROJECT NUMBER:

OWNER ☐

CONTRACT FOR:

ARCHITECT ☐

CONTRACTOR ☐

TO OWNER: *(Name and address)*

CONTRACT DATED:

SURETY ☐

OTHER ☐

STATE OF:

COUNTY OF:

The undersigned hereby certifies that to the best of the undersigned's knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services who have or may have liens or encumbrances or the right to assert liens or encumbrances against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS:

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.

CONTRACTOR: *(Name and address)*

BY:

(Signature of authorized representative)

(Printed name and title)

Subscribed and sworn to before me on this date:

Notary Public:

My Commission Expires:

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AIA[®] Document G707[™] – 1994

Consent of Surety to Final Payment

PROJECT: *(Name and address)*

ARCHITECT'S PROJECT NUMBER:

OWNER ☐

CONTRACT FOR:

ARCHITECT ☐

CONTRACTOR ☐

TO OWNER: *(Name and address)*

CONTRACT DATED:

SURETY ☐

OTHER ☐

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

on bond of
(Insert name and address of Contractor)

, SURETY,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of any of its obligations to
(Insert name and address of Owner)

, CONTRACTOR,

as set forth in said Surety's bond.

, OWNER,

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date:
(Insert in writing the month followed by the numeric date and year.)

(Surety)

(Signature of authorized representative)

Attest:
(Seal)

(Printed name and title)

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AIA[®] Document G707A[™] – 1994

Consent of Surety to Reduction in or Partial Release of Retainage

TO OWNER: *(Name and address)*

ARCHITECT'S PROJECT NUMBER:

OWNER ☐

CONTRACT FOR:

ARCHITECT ☐

CONTRACTOR ☐

PROJECT: *(Name and address)*

CONTRACT DATED:

SURETY ☐

OTHER ☐

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

on bond of
(Insert name and address of Contractor)

, SURETY,

hereby approves the reduction in or partial release of retainage to the Contractor as follows:

, CONTRACTOR,

The Surety agrees that such reduction in or partial release of retainage to the Contractor shall not relieve the Surety of
any of its obligations to
(Insert name and address of Owner)

as set forth in said Surety's bond.

, OWNER,

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date:
(Insert in writing the month followed by the numeric date and year.)

(Surety)

(Signature of authorized representative)

Attest:
(Seal)

(Printed name and title)

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AIA[®] Document G709[™] – 2018

Proposal Request

PROJECT: *(name and address):*

CONTRACT INFORMATION:

Contract For:

Date:

Architect's Project number:

Proposal Request Number:

Proposal Request Date:

OWNER: *(name and address):*

ARCHITECT: *(name and address):*

CONTRACTOR: *(name and address):*

The Owner requests an itemized proposal for changes to the Contract Sum and Contract Time for proposed modifications to the Contract Documents described herein. The Contractor shall submit this proposal within

_____ () days or notify the Architect in writing of the anticipated date of submission.

(Insert a detailed description of the proposed modifications to the Contract Documents and, if applicable, attach or reference specific exhibits.)

THIS IS NOT A CHANGE ORDER, A CONSTRUCTION CHANGE DIRECTIVE, OR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED IN THE PROPOSED MODIFICATIONS.

REQUESTED BY THE ARCHITECT:

PRINTED NAME AND TITLE



AIA[®] Document G710[™] – 2017

Architect's Supplemental Instructions

PROJECT: *(name and address)*

CONTRACT INFORMATION:

Contract For:

Date:

ASI INFORMATION:

ASI Number:

Date:

OWNER: *(name and address)*

ARCHITECT: *(name and address)*

CONTRACTOR: *(name and address)*

The Contractor shall carry out the Work in accordance with the following supplemental instructions without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.

(Insert a detailed description of the Architect's supplemental instructions and, if applicable, attach or reference specific exhibits.)

ISSUED BY THE ARCHITECT:

ARCHITECT *(Firm name)*

SIGNATURE

PRINTED NAME AND TITLE

DATE



AIA[®] Document G714[™] – 2017

Construction Change Directive

PROJECT: *(name and address)*

CONTRACT INFORMATION:

Contract For:
Date:

CCD INFORMATION:

Directive Number:
Date:

OWNER: *(name and address)*

ARCHITECT: *(name and address)*

CONTRACTOR: *(name and address)*

The Contractor is hereby directed to make the following change(s) in this Contract:
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits.)

PROPOSED ADJUSTMENTS

1. The proposed basis of adjustment to the Contract Sum or Guaranteed Maximum Price:

- ☐ Lump Sum (increase) (decrease) of \$
- ☐ Unit Price of \$ per
- ☐ Cost, as defined below, plus the following fee:
(Insert a definition of, or method for determining, cost)
- ☐ As follows:

2. The Contract Time is proposed to (be adjusted) (remain unchanged). The proposed adjustment, if any, is (an increase of days) (a decrease of days).

NOTE: The Owner, Architect and Contractor should execute a Change Order to supersede this Construction Change Directive to the extent they agree upon adjustments to the Contract Sum, Contract Time, or Guaranteed Maximum price for the change(s) described herein.

When signed by the Owner and Architect and received by the Contractor, this document becomes effective IMMEDIATELY as a Construction Change Directive (CCD), and the Contractor shall proceed with the change(s) described above.

Contractor signature indicates agreement with the proposed adjustments in Contract Sum and Contract Time set forth in this CCD.

ARCHITECT *(Firm name)*

OWNER *(Firm name)*

CONTRACTOR *(Firm name)*

SIGNATURE

SIGNATURE

SIGNATURE

PRINTED NAME AND TITLE

PRINTED NAME AND TITLE

PRINTED NAME AND TITLE

DATE

DATE

DATE



AIA[®] Document G716[™] – 2004

Request for Information (RFI)

TO:

FROM:

PROJECT:

ISSUE DATE:

RFI No.:

REQUESTED REPLY DATE:

PROJECT NUMBERS:

COPIES TO:

RFI DESCRIPTION: *(Fully describe the question or type of information requested.)*

REFERENCES/ATTACHMENTS: *(List specific documents researched when seeking the information requested.)*

SPECIFICATIONS

DRAWINGS

OTHER

SENDER'S RECOMMENDATION: *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

RECEIVER'S REPLY: *(Provide answer to RFI, including cost and/or schedule considerations.)*

By: _____ Date: _____ Copies to: _____

NOTE: This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.

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SECTION 01 00 00

GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes the following subjects:
 - 1. Owner's Representative
 - 2. Published Regulations
 - 3. Conflicts or Discrepancies
 - 4. Specification and Drawing Conventions

1.3. RELATED SECTIONS

- A. All Division 01 Specifications.

1.4. OWNER'S REPRESENTATIVE

- A. General: The "Owner" for the Project is the State of West Virginia, Department of Administration, General Services Division (GSD).
- B. The terms "GSD", "State", "State of West Virginia", and "Agency" used throughout the Contract Documents shall be synonymous with "Owner".
- C. The GSD may assign a Project Manager as the Owner's on-site representative for the construction phase to serve the following functions:
 - 1. Coordinate all construction phase consultants of the Owner;
 - 2. Coordinate other Consultant, Engineer, and Contractor communications;
 - 3. Expedite resolution of all conflicts;
 - 4. Perform additional quality assurance oversight (such as inspection, verification, acceptance, rejection); and
 - 5. Perform other administrative oversight.
- D. The GSD's Project Manager shall be provided copies of all written decisions and notices to the Contractor as well as information and notices from the Contractor. All activities not specifically

required to be performed by the Engineer may be performed by the GSD Project Manager.

- E. The GSD Project Manager, the Engineer, and any consultants may inspect the Contractor's Work at all necessary stages on behalf of the GSD. Inspections may be performed at layout, demolition and preparation, placement and curing, and final cleaning phases of the Work. These inspections do not replace or alter the requirements of the Contractor's quality control procedures as specified in Section 01 40 00 – "Quality Requirements."
- F. The GSD may also delegate from the Engineer to any selected consultants certain inspection, verification, acceptance, rejection, and administrative duties and authority. The GSD shall provide the Contractor and the Engineer information in writing defining the limits of the selected consultants' authority.

1.5. CONFLICTS OR DISCREPANCIES

- A. Order of Precedence: In the event of conflicts or discrepancies among the Contract Documents, interpretations will be based on the following priorities:
 - 1. The Centralized Request for Quotations
 - 2. Addenda, with those of later date having precedence over those of earlier date.
 - 3. State of West Virginia Supplemental General Conditions to Standard Form of Agreement Between Owner and Contractor.
 - 4. The General Conditions of the Contract for Construction.
 - 5. Division 01 of the Specifications.
 - 6. Technical Specifications (Divisions 02 through 31)
 - 7. Drawings.
- B. In the case of conflicts or discrepancies between Drawings and Specifications or within either Document not clarified by Addendum, the Engineer will determine which takes precedence.

1.6. SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intending meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
 - 2. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- B. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail on the Technical Specifications that are incorporated at the beginning of the Drawing package. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the Technical Specifications on the Drawings.

2. Abbreviations: Materials and products are identified by abbreviation scheduled on the Drawings.

PART 2 - PRODUCTS
NOT USED.

PART 3 - EXECUTION
NOT USED.

END OF SECTION 01 00 00

SECTION 01 11 00

SUMMARY OF WORK

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This Section includes the following:
 - 1. Project Information
 - 2. Work covered by Contract Documents
 - 3. Phased Construction
 - 4. Background Information
 - 5. Type of Contract
 - 6. Work Covered by the Contract Documents
 - 7. Work Not in Contract
 - 8. Contractor's Responsibilities
 - 9. Work Restrictions and Use of Site
 - 10. Work Sequence and Phasing
 - 11. Protection

1.3. RELATED SECTIONS

- A. Section 01 14 00 - "Work Restrictions & Use of Site"
- B. Section 01 32 13 - "Scheduling of Work"
- C. Section 01 40 00 - "Quality Requirements"
- D. Section 01 50 00 - "Temporary Facilities and Controls"
- E. Section 01 56 00 - "Temporary Barriers and Enclosures"

1.4. PROJECT INFORMATION

- A. Project Name: West Virginia State Capitol Building North Stair Repair Project – Phase II
- B. Project Location:

1. West Virginia State Capitol Building
1900 Kanawha Boulevard East, Building No. 1
Charleston, West Virginia 25305
- C. Procurement Folder Number: GSD1149150
- D. Owner: State of West Virginia, Department of Administration, General Services Division (GSD).
 - a. Owner's Representative: Aaron Armstrong, Construction Project Manager
 - b. Mailing Address: 218 California Avenue, Charleston, West Virginia 25305
- E. Engineer of Record: WDP & Associates Consulting Engineers, Inc. (WDP)
 - a. Engineer's Representative: Rex Cyphers, P.E., Principal
 - b. Mailing Address: 335 Greenbrier Drive, Suite 205, Charlottesville, Virginia 22901
- F. Project Web Site: A project Web site administered by Contractor shall be used for purposes of managing communication and documents during the construction stage.
 1. See Section 013100 "Project Management and Coordination" for requirements for establishing, administering, and using the Project Web site.

1.5. PROJECT BACKGROUND

- A. The West Virginia State Capitol Building was built over an eight-year period, completing construction on June 20, 1932. The building's main entrance at the north portico is accessed by a monumental stair constructed of brick masonry, structural steel, and reinforced concrete and clad with limestone stair treads and panels. The space beneath the upper stair flight contains occupied space that has been converted to a Reading Room for the state legislature.
- B. In March of 2021, a section of concrete from the bottom side of the concrete slab spalled off and fell into the room. The State issued an Emergency Purchase Order to investigate the area under the slab for other areas of possible failure. The investigation determined that the spalling concrete was caused by corrosion of reinforcing bars within the concrete resulting from water infiltration into the concrete. During the investigation, additional areas of corroded reinforcement and delaminated concrete were found, as well as evidence of corrosion at the concrete-encased structural steel beams. Additional areas of water infiltration through the stair into the building interior and beneath the platform were also observed.
- C. Based on the results of the investigation, the GSD has selected to remove the concrete stair slab to permit further inspection and repairs of the embedded structural steel members, install new reinforced concrete slabs, and remove and replace failing waterproofing materials. The repairs will require the selective removal, salvage, and reinstallation of the historic cladding elements from the stairs.
- D. Due to the number of concealed and unknown conditions, the repair project has been divided into two phases with each phase being awarded as a separate contract.

1. The first phase of this project was completed on January 4, 2023, and included the erection of temporary protection and enclosures; selective demolition at the building interior; and removal, cataloging and storage of the limestone stair treads, wall panels and coping caps, as shown in the Drawings.
2. The work for this project will be the second phase of the project and will generally include the removal of the concrete slabs, repairs to the stair structure, installation of new waterproofing assembly, installation of a new mechanical system and interior finishes within the Reading Room, stone restoration, reinstallation of existing claddings, and restoration of the site along with replacement of the concrete stair structure and pavers along the east and west walkways.

1.6. WORK COVERED BY CONTRACT DOCUMENTS

A. The Scope of Work for this project defined by the Contract Documents generally comprises the following:

1. Maintenance of construction barriers and signage along with installation of shoring, temporary facilities and controls, temporary protection required to maintain occupant access and egress during the work as shown in the Drawings and as required by Code.
2. Storage of materials and equipment in designated areas to maintain access for building occupants and prevent impact on occupants or building activities.
3. Measures to ensure occupant and worker safety is held paramount through the entire duration of the Work.
4. Installation of temporary weather and security protection measures.
5. Selective demolition of suspended reinforced concrete stair slabs.
6. Selective demolition of concrete encasements from structural steel members.
7. Repair of pavers, panels, cheek wall stones, or column bases using the repair techniques and patch quantities as designated by the Engineer.
8. Provide discrete concrete repairs to the beams beneath the platform as designated.
9. Demolition of existing concrete slab and components as designated by the drawings, including the concrete stringers supporting the side stairs.
10. Placement of concrete forms and reinforcing steel in accordance with the designs provided by the Engineer prior to the installation of the concrete slabs.
11. Installation of concrete slabs in accordance with drawings and designs.
12. Installation of waterproofing components to concrete slabs, cheek walls, and other areas designated in the drawings.
13. Replacement of pavers and cheek wall stones to their original or otherwise designated locations without causing damage them in the process.
14. Installation of new interior finishes, mechanical, electrical, and lighting within the occupied spaces beneath the North Stair.
15. Installation of auxiliary components such as railings, grates, or other specified components.
16. Disposal of discarded and waste materials off site.
17. Return of the site to the condition it was found before the start of Phase 1.
18. Provision of assistance and access to Engineer to perform additional investigation work to as concealed conditions are uncovered.

B. Type of Contract:

1. Project will be constructed under a lump sum general construction contract.

1.7. WORK NOT IN CONTRACT

- A. In preparing the Contract Documents, certain items, which are not included in the Contract, are shown in order to clarify the relative locations of elements within the Work as well as demonstrate other functions of elements within the Work. Generally, adjacent existing elements have been shown to assist or to explain the placing of connections or adjacent work. These items are generally noted to remain.
 - 1. Any item or Work shown on the Contract Documents shall be considered a part of the Contract unless it is clearly noted “not-in-contract (N.I.C.).”
 - 2. Where preparatory work requires mechanical, electrical, or plumbing connection lines or where permanent installation is required by any item of work, whether or not noted "N.I.C.", such preparatory work, connection lines or permanent installation is included in the Contract.
- B. Hazardous Material Abatement: Removal of hazardous materials as outlined in Section 01 35 43, “Environmental Procedures” are not included in the Contract. Should hazardous materials be uncovered during the execution of the work, adjustments to the Contract can be evaluated prior to commencement of the work.
 - 1. Although removal of hazardous materials is not anticipated, measures to protect existing hazardous materials within the work area are required as part of the Contract Documents.
 - 2. Caution should be used when working around materials known to contain hazardous materials. If disturbance of hazardous materials occurs at the fault of the Contractor, abatement will be the responsibility of the Contractor.

1.8. WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.
- B. Concurrent Work: The following are known separate contracts that will coincide with the Work outlined herein. If other contracts become known during the time of construction, the GSD will notify the Contractor as information becomes available.
 - 1. Campus Lighting Project: A campus lighting project began in the 2020 calendar year and is ongoing. Depending on the progress of the project, coordination may be required to permit access to portions of the Contractor Laydown Area.

1.9. CONTRACTOR'S RESPONSIBILITIES

- A. The Contractor shall furnish all labor and materials not otherwise specified and have entire charge of the construction operations, including all subdivisions thereof, and shall be solely responsible for the execution of the work in its entirety, whether sublet or executed by the Contractor's own organization.
- B. Except as specifically noted, Contractor shall provide and pay for the following:

1. Labor, materials, and equipment.
 2. Tools, construction equipment, and machinery.
 3. Other facilities and services necessary for proper execution and completion of work, including all access, pedestrian protection, and egress signage.
 4. All legally required sales, consumer, and any usage taxes.
 5. Any cost associated with giving all required notices.
- C. Contractor shall comply with codes, ordinances, rules, regulations, orders, and other legal requirements of public authorities which bear on the performance of work.
- D. Contractor shall promptly submit written notice to the Engineer of any observed variance of the Contract Documents from legal requirements. It is not the Contractor's responsibility to make certain that the Drawings comply with codes and regulations:
1. The Contract Documents will be modified to make the necessary changes.
 2. The Contractor shall assume responsibility for work known to be contrary to such requirements and performed without such notice.
- E. Contractor shall enforce strict discipline and good order among employees. Contractor shall not employ persons unskilled in their assigned tasks.
- F. Contractor shall pay for all laboratory and field testing except for those tests specifically indicated that will be at the GSD's expense.
- G. Contractor shall ensure a safe working environment is provided meeting all local, State, and Federal requirements and OSHA regulations.
- H. The Contractor and each Subcontractor shall be responsible for the proper coordination of work and understanding of the items of work which connect with or are dependent upon the work of other trades.

1.10. WORK RESTRICTIONS AND USE OF SITE

- A. Refer to Section 01 14 00, "Work Restrictions & Use of Site" for more specific requirements.
- B. The State Capitol Building, as well as adjacent buildings, grounds, and parking lots not included in the Work, will be occupied throughout the day and night hours during the entire period of construction. The nature of activities at the Capitol Building is such that there must be the least possible disturbance to occupants as well as occupants within adjacent buildings from the Contractor. The work is to be performed at such times, as directed, so as not to disturb the building occupants or their access to buildings that will remain open.
1. Unnecessary noises shall be avoided at all times and unavoidable noises shall be reduced to a minimum so as to constitute the least disruption to the operations conducted in the adjacent occupied areas.
- C. Driveways, walkways, and entrances: Keep driveways, loading areas, and entrances serving the premises clear and available to the building occupants and emergency vehicles at all times.

1. The existing parking spaces serving the premises shall be kept clear and available to the building occupants at all times except for the spaces designated for the Contractor's use. The Contractor shall at his own expense repair and restore to its condition as of the beginning of construction all existing driveways, pavements and sidewalks, landscaping, and lawn disturbed by the Contractor's operations. New materials shall match the existing and adjacent work.
- D. The Contractor and his Subcontractors shall not encroach upon areas outside those designated for the Contractor's use for the storage of materials, nor shall any of the Contractor's or Subcontractor's employees be permitted on such areas or adjacent properties.
- E. All construction personnel will be restricted at all times to the established work and staging areas, and storage and stockpiling of construction materials and equipment will also be restricted to those areas.
 1. Confine operations at the site to areas permitted by law, ordinance, permits, and Contract Documents.
- F. Contractor personnel are allowed to use on-site food service area in basement provided that they are clean in personal appearance and do not disturb other patrons.
- G. Contractor personnel are strictly prohibited from using on-site restrooms and facilities with the exception of the food service area mentioned previously.

1.11. HISTORIC TREATMENT PROCEDURES

- A. The Capitol Building is listed on the National Register of Historic Places; therefore, every effort should be made to preserve the historic nature of the building. The scope of work for this project will require all work to be in accordance with Secretary of the Interiors Standards for the Treatment of Historic Properties.
- B. Coordination will be required with the West Virginia State Historic Preservation Office (SHPO) to ensure all restoration and repair methods are in accordance with the "Secretary of the Interior's Standards for the Treatment of Historic Properties."
 1. Execution of historical treatment procedures cannot be executed without the approval of SHPO. Coordination will be required to submit sufficient documentation to SHPO for review for any historical treatment procedures identified as part of the scope of work. Contractor shall account for time required for coordination into their construction schedule.
 2. Coordination may be required with the West Virginia Division of Culture and History to provide documentation of existing conditions that are uncovered during the execution of the Work as well as provide records of the Work to serve as an archive to the building.
- C. Material Ownership
 1. Historic items, relics, and similar objects of interest or value may be encountered or uncovered during the Work. Regardless of whether they were previously documented, such items remain the property of the GSD.

2. Notify Engineer and GSD immediately upon uncovering a historic item. Do not remove, disrupt, or alter the condition and surroundings of the item unless directed to do so by the Engineer and GSD.
 - a. If directed to remove the item, carefully dismantle and salvage each item or object and protect it from damage, then promptly deliver it to GSD where directed.
 - b. Coordinate with the West Virginia Division of Culture and History and the State Historic Preservation Office for special procedures for dismantling and salvaging items uncovered during the execution of the Work.
3. Items removed during construction that are not intended to be reinstalled, but have historical significance to the Capitol Building, shall remain the property of the Capitol and the GSD.

1.12. PROTECTION

- A. Refer also to Section 01 50 00 “Temporary Facilities and Controls” and Section 01 56 00 “Temporary Barriers and Enclosures” for more specific requirements.
- B. Exercise every precaution to protect and maintain free from damage portions of the existing building and adjacent buildings to and adjoining the work. Damage to portions of the existing building and adjacent buildings not subject to work under the Contract shall be repaired to the full satisfaction of the GSD, at the Contractor's expense.
- C. Protect from injury all on-site trees, shrubbery, and other plantings. Replace injured trees and planting with like material at no additional cost to the GSD.
- D. Contractor shall provide and maintain adequate fire protection for the duration of construction. All flammable materials are to be stored in a safe manner away from any heat source and in accordance with all local, state, and federal regulations.
- E. Protection of Mechanical and Electrical Equipment:
 1. Unless noted to be removed, existing air conditioning, heating, ventilating, and electrical systems must be maintained in operation and serve the building and adjacent buildings.
 2. Provide filters, covers, or duct extensions as required to prevent the intake of dust, overspray, or fumes into the equipment or the building interior.
 3. Precautions must be taken so that any existing pipe, conduit, or ductwork is not severed or otherwise disrupted unless noted to be removed as a part of the Work.

1.13. WORK SEQUENCE

- A. Refer also to Section 01 32 13 “Scheduling of Work” for specific requirements regarding the phases of work.
- B. No work shall begin until the Contractor inspects all measures installed as a part of Phase I and verifies all temporary protection necessary for building occupants is in place and functional. Contractor shall make all necessary modifications to installed temporary protections prior to commencing work.

1. Safe pedestrian egress and access to and from the building and all adjacent buildings and parking lots must be maintained at all times.
- C. Work shall be coordinated to provide the least interruption in building operations. Accommodations shall be made to stop work when requested by the GSD for a major event. Work shall be scheduled and coordinated with the GSD, who will approve all phasing and scheduling of the work.

1.14. SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.

PART 2 - PRODUCTS
NOT USED.

PART 3 - EXECUTION
NOT USED.

END OF SECTION 01 11 00

SECTION 01 14 00

WORK RESTRICTIONS & USE OF SITE

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes the following:
 - 1. Concurrent Occupancy
 - 2. Use of Site and Premises
 - 3. Security Procedures
 - 4. Working Hours
 - 5. Existing Utility Interruptions
 - 6. Site Access
 - 7. Operations Outside of Construction Limits
 - 8. Site Protection
 - 9. Fire Protection
 - 10. Trash Disposal
 - 11. Noise & Vibration Restrictions
 - 12. Special Site Requirements
 - 13. Burning and Welding Operations
 - 14. Blasting

1.3. RELATED SECTIONS

- A. Section 01 32 13 – “Scheduling of Work”
- B. Section 01 50 00 – “Temporary Facilities and Controls”
- C. Section 01 56 00 – “Temporary Barriers and Enclosures”
- D. Section 01 74 00 – “Cleaning and Waste Management”

1.4. REFERENCED STANDARDS

- A. Federal Highway Administration (FHWA) Manual on Uniform Traffic Control Devices (MUTCD)

- B. Chapter 6; ANSI A10.34 (2001) "Protection of the Public On or Adjacent to Construction Sites – American National Standard for Construction and Demolition Operations;

1.5. CONCURRENT OCCUPANCY

- A. The State Capitol Building will remain occupied during the entire construction period. Contractor shall cooperate with GSD to minimize conflict and to perform work so as not to interfere with normal building operations to the greatest extent possible.
- B. Schedule work to accommodate building events and operations. Refer to Section 01 32 13 "Scheduling of Work" for additional information.
- C. Accessible ingress and egress for occupants, visitors, guests, staff, and support services must be continuously maintained, along with clear routes through the building in the event that emergency personnel must access the building.
 - 1. Keep all exits required by applicable code open during construction period.
 - 2. Provide adequate protection for building occupants in accordance with OSHA and all applicable local, state, and federal codes and regulations.
- D. Do not obstruct roadways, sidewalks, or other public ways without permit.
- E. Proper operation of smoke evacuation controls, fire alarm, and personal safety systems must be maintained for the duration of the construction operations as approved by the GSD and State Fire Marshal.
- F. GSD will provide maintenance, security, and custodial services for occupied areas beyond the active construction zone during construction. The Contractor shall not interfere with such activities.
- G. Contractor shall coordinate with the GSD access to and security of existing mechanical/electrical equipment spaces.

1.6. USE OF SITE AND PREMISES

- A. General: Contractor shall have limited use of premises for construction operations, including use of Project site, during construction period as indicated in the Construction Documents. Contractor shall not disturb portions of the project site beyond areas in which the Work is indicated.
- B. Use of Site: Limit use of premises to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
- C. The Capitol Building, including the construction limits, is a tobacco-free environment. Tobacco use is only allowed in designated areas and at the approval of the GSD.
- D. Parking: Limited parking is available at the Project site. The following locations have been designated for Contractor parking as part of the project. Parking permits will be required for the duration of the project for vehicles parked in these locations. Coordination with the GSD will be required to obtain parking permits. Maps indicating exact parking locations and additional instructions are to be provided by GSD.

1. Additional parking is available at Laidley Field on Elizabeth Street in areas designated as “Capitol Complex Visitor Parking.”

E. Deliveries: Schedule deliveries to minimize use of driveways and entrances.

1. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
2. Schedule deliveries to minimize use of driveways and entrances by construction operations.
3. Use Flag Person with proper personal protective equipment and traffic controls.
4. Minimize traffic closures.
5. Coordinate large deliveries with GSD and Division of Protective Services.
 - a. Call (304)-558-5715 for Deliveries after 7:00 PM and on Weekends and Holidays.
6. Contractor is responsible for receiving all deliveries; deliveries made to adjacent facilities or to the GSD will not be accepted.
7. Contractor use of public right-of-way shall conform to the requirements of local jurisdiction.

F. Storage:

1. Effectively store all materials and equipment during the entire period of construction. Contractor is solely responsible for the protection and storage of materials to prevent damage or theft.
2. Do not unreasonably encumber the site with materials or equipment.
3. Construction equipment, shoring, tools, materials, etc., shall be stored only in areas designated as Contractor Work Areas. Move any stored products which will interfere with the operations of the State Capitol Building.

1.7. SECURITY PROCEDURES

- A. All personnel that will be accessing the site during construction must obtain security clearance pursuant to West Virginia Code 15-2D-3(e), which requires that “any service providers whose employees are regularly employed on the grounds or in the building of the Capitol Complex or who have access to sensitive or critical information submit to a fingerprint-based background inquiry through the state repository.”

1. Applications are submitted through IdentoGo.
 - a. Visit www.identigo.com for more information.
 - b. Toll-Free Number: 1-855-766-7746
2. Criminal history investigations will be completed by the West Virginia State Police and the Federal Bureau of Investigation.
3. GSD to provide appropriate paperwork required to obtain security clearance.

- B. Key personnel from the Contractor will be required to obtain Access Cards that allow access to the building and to areas of the building not accessible to the public.

1. Key personnel to receive access cards must be approved by the GSD.

2. Security clearance must be complete in accordance with Article 1.7.A prior to obtaining an access card.
 3. Coordinate with the GSD to obtain access cards.
 - a. Key personnel must provide the following in order to obtain an access card:
 - 1) Name
 - 2) Date of Birth
 - 3) Driver's License Number
 - 4) Contact/cell phone number
 - b. Processing of information to receive access cards will take no less than one week.
 - c. Access cards, once approved, can be obtained from the Business Section of the General Services Division. Contact GSD for the current office location. A signature is required in order to obtain the access card.
 - C. The Contractor shall provide the GSD a complete list of workers that will be on the job site fifteen working days prior to the start of Work. Any changes in site personnel must be reported to the GSD in writing immediately. The list of workers shall include the name and badge number for each worker on site. Such information is required by the Division of Protective Services for safety reasons and in the event of an emergency.
 - D. Picture ID badges provided by the Division of Protective Services must be worn on outer garments above elbow level by all persons working on the premises at all times.
 1. Picture ID badges will be provided at no cost to the Contractor.
 2. Any Contractor personnel not complying with this requirement will be denied access to the Capitol Building or will be escorted off premises by the Capitol security personnel.
- 1.8. WORKING HOURS:
- A. On-Site Work Hours:
 1. For spaces where repairs will cause little to no disruption to building occupants based on area of work or occupancy within space, work may be performed during normal business working hours of 7:00 AM to 5:00 PM, Monday through Friday, unless otherwise indicated.
 2. For spaces where repairs will displace building occupants or cause significant disruption to building occupants, night work will likely be necessary and should be coordinated with the GSD.
 - a. Night Work: Night work is considered any work outside of normal working hours during the typical work week.
 3. Weekend Hours: Weekend work shall be coordinated with the GSD.
 - B. Deliveries: Limit deliveries to normal business hours of 7:00 AM to 7:00 PM, Monday through Friday, unless otherwise indicated.

1.9. EXISTING UTILITY INTERRUPTIONS

- A. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by building occupants or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. The Contractor shall include planned disruptions to the building utilities in the agendas for project meetings, but in no case shall the Contractor proceed with any work that could disrupt services to the building without fourteen calendar days' written notice to the GSD and a written agreement by the GSD to the proposed outage or disruption period.
 - 2. Do not proceed with utility interruptions without GSD's written permission.

1.10. SITE ACCESS

- A. All access to work areas shall be from the designated construction service areas. Construction signs, traffic control signs, and safety signs shall be prepared prior to repair work.
- B. Workers shall uphold construction safety regulations and guidelines at all times in accordance with federal, state, and local jurisdictions.
- C. At the completion of all work, Contractor shall verify all laydown areas and access routes are free of debris and damage and are returned to the GSD in their preconstruction condition.
 - 1. All lawn locations are to be restored in accordance lawn restoration requirements outlined on the Drawings.
- D. A designated Contractor Laydown Area has already been constructed and is provided for the Contractors use located in the courtyard between the East and West Wings, as indicated in the Drawings.
- E. Access Provisions: Designated Contractor routes through the building to the interior of any work area shall be coordinated with the GSD but are generally described as follows:
 - 1. Access to the building should be through the north entrance on the Ground Floor as indicated on the Drawings. Access cards must be used to access the building through this entrance.
 - a. Access to the building can also be through the public entrances where a security screening is required. Access cards are not required for access through these entrances, but these entrances are only available for limited times during the day.
 - 2. Access through the loading dock must be coordinated with the Division of Protection Services. Contractor to alert Division of Protective Services no less than forty-eight hours in advance when access through the loading dock is required.
 - 3. Access to individual rooms directly adjacent to the Journal Reading Room must be coordinated with the GSD and Division of Protective Services.

1.11. OPERATIONS OUTSIDE CONSTRUCTION LIMITS

- A. Construction fencing and lay down area limits are indicated on the Drawings.

1. The Contractor shall comply with designated travel paths, staging areas, dumpster locations, and other restricted items indicated on Drawings.
- B. Use of certain passageways and other areas, outside of defined limits of construction, will be granted on an as needed basis. Requests must be approved by the GSD in writing prior to access being granted.

1.12. SITE PROTECTION

- A. See Section 01 50 00 “Temporary Facilities and Controls” and Section 01 56 00 “Temporary Barriers and Enclosures” for additional information on site protection.
- B. Temporary construction barriers, covering structure, pedestrian protection, traffic control measure, and all necessary temporary facilities and protection barriers shall be constructed or installed in accordance with the 2015 International Building Code (IBC); Federal Highway Administration (FHWA) Manual on Uniform Traffic Control Devices (MUTCD 2009) Chapter 6; and ANSI A10.34 (2001, R2012) "Protection of the Public On or Adjacent to Construction Sites – American National Standard for Construction and Demolition Operations;" the most stringent requirement shall govern under circumstances of overlapping standard requirements.
- C. No work shall commence until all existing temporary controls related to the pedestrian protection, egress, worker access, and building protection are inspected and made functional and all new temporary controls related to the pedestrian protection, egress, worker access, and building protection required to execute the work are in place.
 1. Where necessary, inspections are to be performed by the GSD and State Fire Marshall prior to the start of work. Contractor shall be responsible for coordinating inspections with construction schedule and providing inspector access to each location.
- D. The Contractor shall protect lawn and landscaped areas, including prohibiting traffic through such areas except along the temporary access road and the designated laydown area.
- E. The Contractor shall install protection as specified, shown in the Drawings and required for areas adjacent to construction and at areas where other building components could be damaged by the work.
- F. The Contractor shall protect the interior of the building from damage during the entire Construction period. All damage to the interior of the building must be repaired to the satisfaction of the GSD and Engineer at no additional cost to the GSD.

1.13. FIRE PROTECTION

- A. Coordination with the State Fire Marshal’s office will be required for work relating to any of the following areas:
 1. Contractor to submit a Fire Alarm System Plan for review if work is done in this area.
 2. Contractor to submit Sprinkler Plans for review if work is done in this area.

3. Any construction revisions making changes to exiting, major mechanical and electrical plans prior to and during construction shall be submitted to the State Fire Marshal's Office for review.
- B. Provide continuous unobstructed access to all fire water supply valves and fire access boxes.
- C. Provide and maintain hand fire extinguishers suitable for fire hazards involved at convenient accessible locations during construction. The Contractor shall keep fire extinguishers as needed in work areas and around stored flammable materials. The type of extinguisher shall be appropriate for the service and in sufficient numbers for the workers to control fires accidentally caused by the Work.
- D. Avoid accumulations of combustible forms, form lumber, and debris within construction site.
- E. A fire extinguisher shall be located by all gasoline or diesel-powered equipment
- F. Handling of Flammable Liquids:
 1. Store flammable or volatile liquids approved containers in open air or in small, detached structures or trailers.
 2. Closely supervise storage of paint materials and other combustible finishing and cleaning products.
 3. Do not store oily rags in closets or other light spaces.
 4. Prohibit smoking in vicinity of hazardous operations.
- G. Smoke detectors and carbon monoxide detectors are to remain operable and unobstructed.

1.14. TRASH DISPOSAL

- A. See Section 01 74 00 "Cleaning and Waste Management" for additional requirements for cleaning and waste management, including trash disposal.
- B. Keep building and project site free from accumulations of trash.
- C. Remove cartons, crates, wrappings, lunch trash and other trash daily.
- D. Do not burn paper, trash, or other material on site.
- E. Do not dispose of volatile wastes such as mineral spirits, oil, or paint thinner in storm or sanitary sewers.

1.15. NOISE & VIBRATION RESTRICTIONS

- A. See Section 01 50 00 "Temporary Facilities and Controls" for additional information on noise and vibration restrictions.
- B. The GSD may request that a demonstration be conducted, using the actual project equipment, to determine whether site restrictions are required.
- C. Contractor personnel are not to engage in conversation with anyone outside of the Construction

Team regarding noise or vibration complaints. All complaints shall be directed to the GSD Project Manager.

- D. Work hours may be limited throughout the contract time as a result of noise conflicts with an event or activity within the building. Notice will be given prior to date of event for any schedule needs.
- E. Contractor shall develop and maintain a noise-abatement program and enforce strict discipline over all personnel to keep noise to a minimum, especially while designated sensitive spaces are occupied.
- F. Contractor shall execute Work by methods and use of equipment which will reduce excess noise and shall employ construction methods and equipment which produce the minimum amount of noise and handle vehicular traffic.

1.16. SPECIAL SITE REQUIREMENTS

- A. During the course of the project, visitors, interested staff, press members, passers-by, etc. may attempt to solicit information from Contractors and Subcontractors. The Contractor shall have procedures in place that deter all workers from giving any information to any groups or individuals outside of the project team. All inquiries shall be directed to the GSD Project Manager. The Contractor shall have a confidentiality policy in place that discourages all workers from taking any photo or video within the construction area for their own personal use. Additionally, the Contractor should have procedures in place that further discourages the posting of any media to any social media sites, blogs, instant messengers, or other forms of media.
 - 1. All media requests shall be directed to the GSD's Project Manager.
 - 2. There shall be no publication of project photos without the GSD's express written consent.
- B. Documentation of site conditions prior to work using video or photos is acceptable.
- C. Designate a safety officer who will coordinate and run routine safety meetings.
- D. All visitors within the Project site shall sign in at the field office trailer or other designated site.
- E. Use of alcohol, illegal substance, smoking, and possession of firearms are prohibited.

1.17. BURNING AND WELDING OPERATIONS

- A. The Contractor shall provide the GSD five working days' advance notice for all burning and welding operations. A fire watch shall be maintained during burning and welding operations per order of the state Fire Marshall Office.

1.18. BLASTING

- A. Blasting is strictly prohibited on Capitol Grounds.

PART 2 - PRODUCTS

NOT USED.

PART 3 - EXECUTION

NOT USED.

END OF SECTION 01 14 00

SECTION 01 20 00
MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between GSD and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes the following subjects:
 - 1. General Requirements
 - 2. Base Bid Work
 - 3. Unit Price Items
 - 4. Invoices

1.3. RELATED SECTIONS:

- A. Pricing Page
- B. Section 01 11 00 – “Summary of Work”
- C. Section 01 26 00 – “Contract Modification Procedures”
- D. Section 01 29 00 – “Payment Procedures”
- E. Section 01 35 43 – “Environmental Procedures”
- F. Section 03 01 30 – “Concrete Repair”
- G. Section 03 01 30.1 – “FRCM Concrete Repair (Bid Alternate 1)”
- H. Section 04 03 50 – “Historic Unit Masonry Restoration”
- I. Section 05 12 83 – “Structural Steel Repairs”

1.4. GENERAL REQUIREMENTS

- A. Perform work required by Base Bid and Unit Price Items in accordance with the Contract Documents.

1. Unit Price Items cover portions of Work added to or deducted from estimated quantities as listed on the Pricing Page by formal Change Order.
- B. Base Bid and Unit Price Items are for work in place, except where indicated otherwise.
- C. Base Bid for the work includes the following costs:
 1. Products.
 2. Delivery to site.
 3. Supervision, labor, and equipment.
 4. Removal and/or installation, including associated accessories and equipment.
 5. Insurance.
 6. Applicable taxes.
 7. Overhead and profit.
 8. Handling, including receiving, unloading, uncrating, storage, distribution, removal from job site and lawful disposal.
 9. Protection from damage and from elements.
 10. Submittal and processing of product data, shop drawings, samples, and other required submittals.
 11. Permits.
 12. Bonds.
 13. Other expenses required to complete installation.
- D. Unit Prices for the work include the following costs:
 1. Products.
 2. Delivery to site.
 3. Supervision, labor, and equipment.
 4. Removal and/or installation, including associated accessories and equipment.
 5. Applicable taxes.
 6. Overhead and profit.
 7. Handling, including receiving, unloading, uncrating, storage, distribution, removal from job site and lawful disposal.
 8. Other expenses required to complete installation.

PART 2 - PRODUCTS

2.1. GENERAL

- A. The sum of the Base Bid and all Unit Price Items will be used to determine the Total Base Bid amount.
- B. Bids will be evaluated and Contract awarded based on the Total Base Bid amount.

2.2. BASE BID ITEMS, GENERAL

- A. Base Bid shall include all items of the work as described in Section 01 11 00 "Summary of Work" and each specification section and as shown in the Drawings, other than those items specifically

identified as Unit Price Work Items. The Base Bid should include all items reasonably incidental to furnishing and completing such work, including but not limited to:

1. Mobilization, Staging, Equipment, Protection, Inspection, Permits, Bonds, Management, Administration, and Incidental Work: This item shall include payment for the items listed and any other item associated with the general requirements and conditions of the Project and incidental work which are not included in Unit Price Items. The purpose of this item is to permit the Contractor to be reimbursed for fixed costs associated with the items listed and to eliminate the Contractor's risks associated with dividing these costs between the Unit Price Items and Base Bid. Costs for the above referenced items shall not be included in Unit Prices but shall be completely included in the Base Bid.
- B. The Contractor shall notify the Engineer and GSD immediately in writing of any Base Bid work that deviates materially from the prescribed basis for bidding and for which an adjustment in Base Bid price is desired. The Contractor shall measure and quantify any such deviations, subject to the Engineer's verification, prior to performing any work which might make verification impossible. No adjustments in Base Bid prices will be considered unless supporting field measurements and a supporting summary of changes in cost are submitted to the Engineer and GSD and approved by the Engineer and GSD in writing prior to the Contractor performing the work in accordance with Section 01 26 00 "Contract Modification Procedures." All adjustments to the Base Bid must be approved by formal Change Order. Except for items or materials indicated to be reused, reinstalled, or otherwise indicated to remain the GSD's property, items shall be removed from the site by the Contractor.

2.3. UNIT PRICE ITEMS, GENERAL

- A. Work to be performed on a Unit Price basis shall be measured according to the methods described below, in Section 01 11 00 "Summary of Work," and each applicable specification section. Payment will be made for the work performed based on quantities within the estimated quantities listed on the Pricing Page as recorded by the Contractor and reviewed and approved by the Engineer. Payment for work on quantities above the estimated quantities listed on the Pricing Page may only be made after the additional quantities are added by formal Change Order. No work shall be executed for Unit Price Items until GSD and Engineer have reviewed and approved repair quantities and associated costs. Unless stated otherwise, records will consist of Drawings showing the areas repaired with dimensions and a cumulative record of quantities repaired.
- B. The Contractor shall notify the Engineer and GSD immediately in writing of any Unit Price Work Item that deviates materially from the estimated quantities listed on the Pricing Page and for which an adjustment in Unit Price is desired. The Contractor shall measure and quantify any such deviations, subject to the Engineer's verification, prior to performing any work which might make verification impossible. No adjustments in Unit Prices will be considered unless supporting field measurements and a supporting summary of changes in cost are submitted to the Engineer and GSD and approved by the Engineer and GSD in writing prior to the Contractor performing the work. Adjustments in Unit Prices must be approved by formal Change Order, and no payments can be made for adjusted Unit Prices until such Change Order is approved.
- C. Unit Prices shall apply to quantities added to or deducted from the estimated quantities provided on the Pricing Page.

2.4. TOTAL BASE BID ITEMS

A. Base Bid: The Base Bid price is to include Scope of Work items as described in Article 2.2.A, and also certain Scope of Work items that are associated with Unit Price Work Items, but which are shown in the Drawings and Specifications that have known quantities. The estimated quantities listed on the Pricing Page for Unit Price Items are exclusive of the known quantities to be included in the Base Bid. Actual quantities of Unit Price Items found to be below or greater than the estimated quantities listed on the Pricing Page (and awarded as part of the Total Base Bid) will be addressed as Unit Price Items per Article 2.3 of this Section. It is the responsibility of the Contractor to ensure all Scope of Work items required by the Contract Documents are included in the Base Bid. For reference, the Scope of Work items that are associated with Unit Price Items that are known and are to be included in the Base Bid are generally as follows:

1. Concrete Crack Repair: Repair of cracks in existing concrete to remain through crack injection.
2. Concrete Patch Repair: Repair of spalls in concrete to remain.
3. Limestone Stair Tread Replacement: All limestone units identified during Phase I and during construction to be replaced will be addressed as a Unit Price. Limestone units damaged by the Contractor shall be replaced at the Contractor's expense.
4. Limestone Patching: All patching of limestone units utilizing cementitious patching materials alone identified during Phase I and during construction will be addressed as a Unit Price.
5. Limestone Repointing: Removal of existing mortar and repointing of joints in all limestone to remain at the North Stair as shown and specified in the Drawings is to be included as a Unit Price to account for minor changes in quantities that may occur based on limestone units to remain or to be replaced. Limestone Repointing Unit Price to only be utilized for mortar joints where original stones remain on all sides of joint.
6. Limestone Dutchman Repair: All repair of limestone units where sections of new stone are permanently integrated into an existing stone identified during Phase I and during construction will be addressed as a Unit Price.
7. Brick Masonry Replacement: All replacement of clay masonry units identified during Phase I and during construction will be addressed as a Unit Price.
8. Brick Masonry Repointing: All repointing of clay masonry as shown and specified in the Drawings will be addressed as a Unit Price.
9. Structural Steel Plate Repair: All repair of existing structural steel members by integration of new flat plate and welds will be addressed as a Unit Price.
10. Structural Steel Weld Repair: All repair of existing structural steel welds by preparation of existing weld and installation of new weld will be addressed as a Unit Price.
11. Structural Steel Zinc Rich Primer: All repair of existing structural steel members as identified during construction by application of zinc rich primer will be addressed as a Unit Price.
12. Hazardous Materials (Asbestos): All abatement of asbestos piping insulation identified during construction will be addressed as a Unit Price.
13. Hazardous Materials (Lead Based Paint): All abatement of lead-based paint identified during construction will be addressed as a Unit Price.
14. Hazardous Materials (Mold): All abatement of mold identified during construction will be addressed as a Unit Price.

B. Unit Price 1 (Part B): Concrete Crack Repairs

1. Description: Installation of repair material at cracked concrete. Repairs will include preparation of the concrete and installation of the repair material. These repairs will be limited to the Contractor work area.
2. Reference Section: Section 03 01 30, "Concrete Repair"
3. Unit of Measurement: Linear inch of concrete crack repair.

C. Unit Price 2 (Part C): Concrete Patch Repairs

1. Description: Installation of patch material at damaged concrete areas. Repairs will include demolition and removal of unsound concrete, preparation of the concrete substrate for patching, installation of dowels, and installation of the patching material. These repairs will be limited to the Contractor work area.
2. Reference Section: Section 03 01 30, "Concrete Repair"
3. Unit of Measurement: Square foot of concrete patching.

D. Unit Price 3 (Part D): Limestone Stair Tread Replacement

1. Description: Replacement of existing limestone stair tread units that are damaged beyond repair. Any replacement of existing stair tread limestone shall be addressed as a Unit Price.
2. Reference Section: Section 04 03 50, "Historic Unit Masonry"
3. Unit of Measurement: Unit of limestone.

E. Unit Price 4 (Part E): Limestone Crack Repair

1. Description: Installation of patch material at damaged and eroded limestone units. Repairs will include preparation of the limestone unit for patching, installation of the patching material, and staining of the patching material, if required, to exactly match the existing limestone color. These repairs will be limited to the Contractor work area.
2. Reference Section: Section 04 03 50, "Historic Unit Masonry"
3. Unit of Measurement: Cubic inch of limestone patching.

F. Unit Price 5 (Part F): Limestone Patching

1. Description: Installation of patch material at damaged and eroded limestone units. Repairs will include preparation of the limestone unit for patching, installation of the patching material, and staining of the patching material, if required, to exactly match the existing limestone color. These repairs will be limited to the Contractor work area.
2. Reference Section: Section 04 03 50, "Historic Unit Masonry"
3. Unit of Measurement: Cubic inch of limestone patching.

G. Unit Price 6 (Part G): Limestone Repointing

1. Description: Removal of existing mortar and repointing of joints in the limestone as shown in the Drawings and as directed by the Engineer.
2. Reference Section: Section 04 03 50, "Historic Unit Masonry"
3. Unit of Measurement: Linear feet of pointing.

H. Unit Price 7 (Part H): Limestone Dutchman Repair

1. Description: Repair of existing limestone units where sections of new stone are carved, shaped and permanently integrated into the existing stone.

2. Reference Section: Section 04 03 50, “Historic Unit Masonry”
 3. Unit of Measurement: Cubic inch of repair.
- I. Unit Price 8 (Part I): Granite Patching
1. Description: Installation of patch material at damaged granite units. Repairs will include preparation of the granite unit for patching, installation of the patching material, and staining of the patching material, if required, to exactly match the existing granite color. These repairs will be limited to the Contractor work area.
 2. Reference Section: Section 04 03 50, “Historic Unit Masonry”
- J. Unit Price 7 (Part J): Granite Dutchman Repair
1. Description: Removal of isolated portions of damaged granite beyond repair limestone units where sections of new stone are carved, shaped and permanently integrated into the existing stone.
 2. Reference Section: Section 04 03 50, “Historic Unit Masonry”
 3. Unit of Measurement: Cubic inch of repair.
- K. Unit Price 9 (Part K): Brick Masonry Replacement
1. Description: Removal and replacement of isolated brick masonry units and adjacent mortar at the east and west check walls and where directed by the Engineer. Area of brick replaced to be excluded from Unit Price 10 - Brick Masonry Repointing quantity.
 2. Reference Section: Section 04 03 50, “Historic Unit Masonry”
 3. Unit of Measurement: Square feet of brick masonry.
- L. Unit Price 10 (Part L): Brick Masonry Repointing
1. Description: Repair of existing granite units where sections of new stone are carved, shaped and permanently integrated into the existing stone.
 2. Reference Section: Section 04 03 50, “Historic Unit Masonry”
 3. Unit of Measurement: Square feet of pointing.
- M. Unit Price 11 (Part M): Structural Steel Plate Repair
1. Description: Preparation of heavily corroded areas and where significant section loss is present on existing steel members to remain and supplementing existing member by fabricating and welding a new flat plate to the existing structural member.
 2. Reference Section: Section 05 12 83, “Structural Steel Repairs”
 3. Unit of Measurement: Square feet of repair.
- N. Unit Price 12 (Part N): Structural Steel Weld Repair
1. Description: Preparation and removal of failed or damaged existing welds and installation of a new weld.
 2. Reference Section: Section 05 12 83, “Structural Steel Repairs”
 3. Unit of Measurement: Linear inch of repair.
- O. Unit Price 13 (Part O): Structural Steel Zinc Rich Primer

1. Description: Preparation and installation of a zinc rich primer over existing structural steel members where directed by the Engineer.
2. Reference Section: Section 05 12 83, "Structural Steel Repairs"
3. Unit of Measurement: Square feet of coating.

P. Unit Price 14 (Part P): Hazardous Materials: Asbestos

1. Description: Abatement of asbestos materials uncovered during construction that are beyond the scope of work included in the Base Bid.
2. Reference Section: Section 01 35 43, "Environmental Procedures"
3. Unit of Measurement: Square feet to be removed.

Q. Unit Price 15 (Part Q): Hazardous Materials: Lead Based Paint

1. Description: There is the possibility of encountering the original lead-based paint during the restoration of the interior finishes and preparation of the existing structural steel members. Any lead-based paint must be properly abated in accordance with all local, state, and federal requirements.
2. Reference Section: Section 01 35 43, "Environmental Procedures"
3. Unit of Measurement: Square feet of materials to be removed.

R. Unit Price 16 (Part R): Hazardous Materials: Mold

1. Description: There is the possibility of encountering mold on existing building components during demolition. Any mold that is discovered should be properly removed in accordance with all local, state, and federal procedures.
2. Reference Section: Section 01 35 43, "Environmental Procedures"
3. Unit of Measurement: Square feet of materials to be removed.

2.5. BID ALTERNATE

A. Bid Alternate 1: A bid alternate shall be provided for an alternate scope of work for the repair of concrete slab above the Journal Reading Room as shown on the Drawings. The Bid Alternate shall be inclusive of deductive and additive work as required to fully execute the work. The Bid Alternate shall only include

1. Deductive Work: The following work is not required and shall be removed from consideration of the pricing:
 - a. Complete removal of the concrete slab above the Journal Reading Room.
 - b. Installation and maintenance of temporary weather and security protection measures while slab is removed exposing interior of Capitol.
 - c. Forming, replacement, finishing and curing of new structural concrete slab inclusive of all reinforcement and auxiliary materials.
2. Additive Work: The following work would be required in addition to the work outlined as a part of Article 2.04.A.
 - a. Removal of delaminated concrete at the underside of the concrete slab.
 - b. Installation of overhead concrete patch material.

- c. Installation of a fiber reinforced cementitious matrix (FRCM) system in accordance with Section 03 01 30.1, “FRCM Concrete Repair (Bid Alternate 1)” over the entire underside of the Journal Reading Room slab soffit.
 - d. Partial disassembly of the top 6 courses of brick from the Break Room wall to facility the installation of the FRCM.
 - e. Reassembly of the top 6 courses of brick at the Break Room wall.
- 3. Bid Alternate Unit Price 1.A (Part 1.A): Overhead Concrete Patch Repairs:
 - a. Description: Installation of patch material at damaged concrete slab soffit. Repairs will include demolition and removal of unsound concrete, preparation of the concrete substrate for patching, installation of dowels, and installation of the patching material. These repairs will be limited to the Contractor work area.
 - b. Reference Section: Section 03 01 30, “Concrete Repair”

2.6. INVOICES

- A. Submit invoices in accordance with Section 01 29 00 “Payment Procedures.”

PART 3 - EXECUTION
NOT USED.

END OF SECTION 01 20 00

SECTION 01 25 00

SUBSTITUTION PROCEDURES (POST-AWARD)

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This Section includes the following:
 - 1. Substitutions for Cause
 - 2. Substitutions for Convenience

1.3. RELATED SECTIONS

- A. Section 01 26 00 “Contract Modification Procedures”

1.4. DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by the Contractor after the Contract has been awarded.
 - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
 - 2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.5. SUBMITTALS

- A. Substitution Request: Submit detailed information for each request for consideration. The following information should be provided within the substitution request:
 - 1. Detail references from the Drawings, including referenced technical information from the Technical Specifications outlined on the Drawings.
 - 2. Existing product or fabrication or installation method to be replaced.

3. Statement indicating why specified product or fabrication or installation cannot be provided.
4. Coordination information, including a list of changes or revisions needed to other parts of the Work that will be necessary to accommodate proposed substitution, including construction performed by GSD and separate contractors.
5. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specifications. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
6. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
7. Samples, where applicable or requested.
8. Certificates and qualification data, where applicable or requested.
9. List of similar installations for completed projects with project names and addresses and names and addresses of Architects or Engineers and Owners.
10. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
11. Research reports evidencing compliance with applicable building codes.
12. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
13. Cost information, including a proposal of change, if any, in the Contract Sum.
14. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
15. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

B. Engineer's Action: If necessary, Engineer will request additional information or documentation for evaluation within five days of receipt of a request for substitution. Engineer will notify Contractor of acceptance or rejection of proposed substitution within fifteen days of receipt of request, or ten days of receipt of additional information or documentation, whichever is later.

1. Forms of Acceptance: Change Order, Construction Change Directive, or Engineer's Supplemental Instructions for minor changes in the Work.
 - a. See Section 01 26 00 "Contract Modification Procedures" for additional information on changes to the contract based on Engineer's acceptance.
2. Use product specified if Engineer does not issue a decision on use of a proposed substitution within time allocated.

1.6. QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.7. PROCEDURES

- A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS

2.1. SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than fifteen days prior to time required for preparation and review of related submittals.
 - 1. Conditions: Engineer will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Engineer will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. Substitution request is fully documented and properly submitted.
 - c. Requested substitution will not adversely affect Contractor's construction schedule.
 - d. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - e. Requested substitution is compatible with other portions of the Work.
 - f. Requested substitution has been coordinated with other portions of the Work.
 - g. Requested substitution provides specified warranty.
 - h. Requested substitution exceeds the performance requirements of the Contract Documents.
 - i. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience: Engineer will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Engineer will return requests without action, except to record noncompliance with these requirements:
 - 1. Requested substitution offers GSD a substantial advantage in performance, cost, time, energy conservation, or other considerations, after deducting additional responsibilities GSD must assume. GSD's additional responsibilities may include compensation to Engineer for redesign and evaluation services, increased cost of other construction by GSD, and similar considerations.
 - 2. Requested substitution does not require extensive revisions to the Contract Documents.
 - 3. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - 4. Substitution request is fully documented and properly submitted.
 - 5. Requested substitution will not adversely affect Contractor's construction schedule.
 - 6. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - 7. Requested substitution is compatible with other portions of the Work.
 - 8. Requested substitution has been coordinated with other portions of the Work.

9. Requested substitution provides specified warranty.
10. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 3 - EXECUTION
NOT USED

END OF SECTION 01 25 00

SECTION 01 26 00

CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This Section specifies administrative and procedural requirements for handling and processing contract modifications, including:
 - 1. Minor changes in the work
 - 2. Proposal requests
 - 3. Construction Change Directive
 - 4. Approvals
 - 5. Change Order Procedures

1.3. RELATED SECTIONS

- 1. Section 01 25 00 – “Substitution Procedures (Post-Award)”
- 2. Section 01 31 00 – “Project Management and Coordination”

1.4. MINOR CHANGES IN THE WORK

- A. Engineer shall have the authority to issue supplemental instructions authorizing Minor Changes in the Work, not involving adjustment to the Contract Sum or the Contract Time. Such Supplemental Instructions may be issued in the following form:
 - 1. Verbal Direction: Verbal direction during a Construction Administration Site Visit. Such direction will also be memorialized in an Engineer’s Construction Administration Site Visit Report.
 - 2. Site Visit Report: Written direction in an Engineer’s Construction Administration Site Visit Report.
 - 3. Job Bulletin: Job Bulletins indicated to be “Supplemental Instructions” which may be included as responses to RFIs. Refer to Section 01 31 00 “Project Management and Coordination” for provisions for Job Bulletins.

1.5. PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: A request to the Contractor for submission of an itemized quotation for changes in the Contract Sum or Contract Time. These proposals will provide a detailed description of proposed changes, including supplemental or revised Drawings and Specifications if necessary.
1. Proposal Requests issued by the Engineer are for information only. Do not consider them instructions either to stop work in progress or to execute the proposed change.
 2. Within time specified in proposal request after receipt of a proposal request, Contractor to submit a detailed Cost Proposal indicating all costs necessary to execute the change to the GSD and Engineer for review. Include supporting information including, but not limited to:
 - a. Include a list of quantities of products required and unit costs, with total amount of purchases to be made. If requested, furnish survey data to substantiate quantities.
 - 1) Credit for work deleted from Contract, similarly documented.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts. Specify whether equipment is rental or company owned.
 - c. Include costs of labor and supervision directly attributable to the change. Include all costs necessary to allow a full and final settlement of the change order without reservation of rights by either the Contractor or its subcontractors or suppliers.
 - d. Indicate any change to the project schedule duration. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 - e. Quotation Form: Use form acceptable to the Engineer and the GSD.
- B. Contractor-Initiated Proposals: The Contractor may propose changes by submitting a request for a change to the GSD and the Engineer. If latent or changed conditions require modifications to the Contract, Contractor may propose changes by submitting a request for change to the GSD and the Engineer. Include supporting information including, but not limited to:
1. Statement outlining the reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and Contract Time.
 2. List of quantities of products required and unit costs, with the total amount of purchase to be made. If requested, furnish survey data to substantiate quantities.
 - a. Credit for work deleted from Contract, similarly documented.
 3. Applicable taxes, delivery charges, equipment rental and amounts of trade discounts.
 4. Costs of labor and supervision directly attributable to the change. Include all costs necessary to allow a full and final settlement of the change order without reservation of rights by either the Contractor or its Subcontractors or suppliers.
 5. Indicate any change to the project schedule duration. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to,

changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

6. Comply with requirements in Section 01 25 00 "Substitution Procedures (Post-Award)" if the proposed change requires substitution of one product or system for product or system specified.

- C. RFI Response-Initiated Proposals: The Engineer's response to an RFI may result in a Job Bulletin or Construction Change Directive which requests a cost proposal. Contractor shall prepare and submit cost proposal as outlined above.

1.6. CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Engineer may issue a Construction Change Directive via a Job Bulletin, but only with the concurrent approval and signature of the GSD on an AIA G714 form. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.

- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.

- C. After completion of change, submit an itemized account and supporting data necessary to substantiate costs and time adjustments to the Contract.

1.7. APPROVALS

- A. Designated GSD personnel will be the only individuals to authorize and approve the change in Work and shall be the sole judge of the validity of the rationale for any requested extension of the Contract Time due to any change in work. No order for change, at any time or place, shall be in any manner or to any extent to relieve the Contractor of his obligations under the contract.

1.8. CHANGE ORDER PROCEDURES

- A. Contractor shall notify Engineer and GSD of intentions to submit for a Change Order prior to commencing such work. Change Orders issued at the end of the project and without proper prior notification will be immediately rejected.

- B. Upon GSD's approval of a Proposal Request, Engineer will prepare an AIA G701 "Change Order" form for signatures of GSD and Contractor, along with all required supporting documentation. GSD will submit completed AIA G701 to the West Virginia State Purchasing Division to request approval for the Change Order.

1. Multiple Proposal requests may be consolidated into a single AIA G701 form.

- C. Once the Change Order has been approved and processed by the Purchasing Division, the Change Order shall be added to the Application for Payment. No payments towards a Change Order can

be made until the Change Order has been approved and processed.

PART 2 - PRODUCTS
NOT USED.

PART 3 - EXECUTION
NOT USED.

END OF SECTION 01 26 00

SECTION 01 29 00

PAYMENT PROCEDURES

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This Section specifies administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. This Section includes the following:
 - 1. Schedule of Values
 - 2. Applications for Payment
 - a. Initial Application for Payment
 - b. Application for Payment at Substantial Completion
 - c. Application for Final Payment
 - 3. Changes and Additional Instructions

1.3. RELATED SECTIONS

- A. Section 01 26 00 – “Contract Modification Procedures”
- B. Section 01 32 00 – “Construction Progress Documentation”
- C. Section 01 77 00 – “Closeout Requirements”

1.4. SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the Schedule of Values with the preparation of the Contractor’s construction schedule.
 - 1. Coordinate line items in the Schedule of Values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets

- b. Submittal schedule
 - c. Items required to be indicated as separate activities in the Contractor's construction schedule.
 2. Submit the Schedule of Values to the Engineer at the earliest possible date, but no later than ten business days before the date scheduled for submittal of initial Application for Payment.
- B. Format and Content:
 1. Arrange Schedule of Values in a manner consistent with AIA Document G703.
 2. Identification: Include the following Project identification on the Schedule of Values:
 - a. Project name and location
 - b. Name of Engineer
 - c. Project Number (provided by GSD)
 - d. Contractor's name and address
 - e. Date of submittal
 3. Layout: Arrange Schedule of Values in a tabular form with separate columns to indicate the following for each item listed:
 - a. Related division of work in general accordance with the Construction Specifications Institute (CSI) format
 - b. Description of the Work
 - c. Name of subcontractor
 - d. Name of manufacturer or fabricator
 - e. Name of supplier
 - f. Change Order numbers that affect value
 - g. Dollar value of the following, as a percentage of the Contract Sum to the nearest percent, adjusted to total 100 percent:
 - 1) Labor
 - 2) Materials
 - 3) Equipment
- C. The breakdown of the Contract Sum shall be broken down in enough detail to facilitate continued evaluation of Applications for Payment and progress reports.
 1. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
 2. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. If required, include evidence of insurance.
 3. Provide separate line items in the Schedule of Values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
 4. Each item in the Schedule of Values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.

5. Temporary facilities and other major cost items that are not direct cost of actual work-in-place shall be shown as separate line items in the Schedule of Values.
 6. Provide a separate line item for each purchase contract. Show line-item value of purchase contract and balance to be paid by the Contractor.
- D. Updating Schedule of Values: Revise Contractor's Construction Schedule and Schedule of Values to list approved Change Orders, along with the next Application for Payment submission when Change Orders or Construction Change Directives result in a change in the Contract Sum.
1. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of Work.

1.5. APPLICATIONS FOR PAYMENT

- A. Application for Payment Form: Use AIA Document G702 and AIA Document G703 as forms for Application for Payment.
1. Each Application for Payment following the initial Application for Payment shall be consistent with previous Applications for Payment as certified by Engineer and paid for by the Owner. Provide an updated construction schedule with each application.
 2. Initial Application for Payment, Application for Payment at Substantial Completion, and Application for Final Payment involve additional requirements.
- B. Payment Schedule: The period covered by each Application for Payment shall be one calendar month ending on the last day of the month.
1. Submit a draft copy of Application for Payment five business days prior to due date for review by Engineer.
- C. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Engineer by a method ensuring receipt, unless electronic versions are acceptable to the GSD. One copy shall include waivers of lien and similar attachments, if required.
1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application, if applicable.
- D. Preparation of Application for Payment: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of the Contractor. Engineer will return incomplete applications without action.
1. Entries shall match data on the Schedule of Values and Contractor's construction schedule. Use updated schedules if revisions are made.
 2. Include amounts of work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
 - a. When Engineer requires substantiating information, submit data justifying dollar amounts in question. Provide one copy of data with cover letter for each copy of submittal. Show application number and date, and line item by number and description.

3. Include amounts of Change Orders issued before last day of construction period covered by application.
 4. Include updated Contractor's Construction Schedule in accordance with Section 01 32 00 "Construction Progress Documentation," indicating current status of each activity on schedule.
 - a. No invoices will be processed until the Contractor's Construction Schedule is submitted.
- E. Stored Materials: Include in the Application for Payment amounts applied for materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site.
1. Provide certificate of insurance, evidence of transfer of title to GSD, and consent of surety to payment, for stored materials.
 2. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
 3. Provide documentation for stored materials indicating the following:
 - a. Value of materials previously stored and remaining stored as of date of previous Applications for Payment.
 - b. Value of previously stored materials put in place after date of previous Application for Payment and on or before date of current Application for Payment.
 - c. Provide location and supporting documentation, including photographs for materials stored off-site.

1.6. INITIAL APPLICATION FOR PAYMENT

- A. Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
1. List of Subcontractors.
 2. Schedule of Values.
 3. Contractor's Construction Schedule (preliminary if not final).
 4. Submittals Schedule (preliminary if not final).
 5. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
 6. Preconstruction Conference
 7. List of Contractor's staff assignments.
 8. List of Contractor's principal consultants.
 9. Certificates of insurance and insurance policies.
 10. Performance and payment bonds.
 11. Data needed to acquire Owner's insurance.
 12. Copies of building permits, as applicable

1.7. APPLICATION FOR PAYMENT AT SUBSTANTIAL COMPLETION

- A. After Engineer issues the Certificate of Substantial Completion, submit an Application for

Payment showing 100 percent completion for portion of the Work claimed as substantially complete.

1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
2. This application shall reflect Certificates of Partial Substantial Completion issued previously for building occupant occupancy of designated portions of the Work.
3. Administrative actions and submittals that shall precede or coincide with this application include:
 - a. Occupancy permits or similar approvals.
 - b. Warranties (guarantees) and maintenance agreements.
 - c. Final cleaning.
 - d. Application for reduction of retainage, and consent of surety.
 - e. Advice on shifting insurance coverage.
 - f. Final progress photographs.
 - g. List of incomplete Work, recognized as exceptions to Engineer's Certificate of Substantial Completion.
 - h. Change-over information related to building occupant occupancy, use, operation and maintenance.

1.8. APPLICATION FOR FINAL PAYMENT

- A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.
- B. Application for Final Payment: Actions and submittals that must precede or coincide with submittal of the final Application for Payment include but are not limited to the following:
 1. All closeout procedures specified in Section 01 77 00 "Closeout Procedures."
 2. Completion of all punch-list work.
 3. Updated final statement, accounting for final changes to the Contract Sum.
 4. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
 5. AIA Document G706A, "Contractor's Affidavit of Release of Liens."
 6. AIA Document A707, "Consent of Surety to Final Payment."
 7. Evidence that claims have been settled.
 8. Final, liquidated damages settlement statement.
 9. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 10. Transmittal of required project construction records to the GSD, including any required As-built Drawings.
 11. Removal of surplus materials, rubbish, and similar elements.
 12. Removal of temporary facilities and services and restoration of existing impacted conditions.
 13. Certification that all sub-contractors and vendors have been paid in full.
 14. Release of Contract.

1.9. CHANGES AND ADDITIONAL INSTRUCTIONS

- A. Changes to the Contract Documents that result in additions or deductions in Contract Sum or Contract Time shall follow the procedures outlined in Section 01 26 00 “Contract Modification Procedures.”

PART 2 - PRODUCTS
NOT USED.

PART 3 - EXECUTION
NOT USED.

END OF SECTION 01 29 00

SECTION 01 31 00

PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes the following:
 - 1. Coordination
 - 2. Existing Conditions
 - 3. Meetings
 - a. Preconstruction Conference
 - b. Preinstallation Conferences
 - c. Progress Meetings
 - d. Monthly Pay Meeting
 - 4. Project Web Site
 - 5. Engineer's Construction Administration Site Visit Reports
 - 6. Daily Construction Reports
 - 7. Job Bulletins
 - 8. Request for Information (RFI)

1.3. RELATED SECTIONS

- A. Section 01 26 00 – “Contract Modification Procedures”
- B. Section 01 29 00 – “Payment Procedures”
- C. Section 01 32 00 – “Construction Progress Documentation”
- D. Section 01 32 13 – “Scheduling of Work”
- E. Section 01 33 00 – “Submittal Procedures”
- F. Section 01 40 00 – “Quality Requirements.”

1.4. DEFINITIONS

- A. Request for Information (RFI): Request from Contractor seeking information required by or clarifications of the Contract Documents.

1.5. SUBMITTALS

- A. Key Personnel Contact Information: Submit a list of Key Personnel from the Contractor and Subcontractor(s). Include name, title, responsibility, and contact information. It is generally expected that this list of Key Personnel will include additional personnel from those indicated in the bid list.

1.6. COORDINATION

- A. General: Contractor shall coordinate scheduling, submittals, and general construction operations included of the Specifications to ensure efficient and orderly sequence of installation of interdependent construction elements.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own completion.
 - 2. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own completion.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Administrative: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's construction schedule.
 - 2. Preparation of Schedule of Values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Progress meetings.
 - 6. Preconstruction conferences.
 - 7. Project closeout activities.
 - 8. Startup and adjustments of systems, as applicable.
- C. Conservation: Contractor shall coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials.
- D. Drawings: Prepare coordination drawings as required to coordinate integration of differing scopes of work, and where installation is not completely shown on Shop Drawings, where limited space necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.

1. Draw accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
 - b. Coordinate the addition of trade-specific information to the coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
 - c. Indicate the functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems, as applicable.
 - d. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
 - e. Indicate required installation sequences.
 - f. Indicate dimensions shown on the Drawings. Specifically note dimensions that appear to be in conflict. Minor dimension changes and difficult installations will not be considered changes to the Contract.

1.7. EXISTING CONDITIONS

- A. Conduct a thorough examination of the site, building, the Contract Documents, and furnished data of existing conditions before proceeding with the Work. The Contractor shall formulate from its examinations its own conclusions as to the extent of the existing conditions and the complexities that may be encountered in the execution of the Work.
- B. **Furnished Data:** Portions of the Contract Documents were prepared from data received from the GSD, from the West Virginia Division of Culture and History, and from the Engineer's own limited field investigation. The furnished data is available from the GSD and represents all existing conditions known to the GSD. Such data will be furnished only for the information and convenience of the Contractor, and the accuracy or completeness of this data is not guaranteed. Field verify all existing dimensions. Other conditions, of which no record exists, may be encountered during construction.

1.8. MEETINGS

- A. **General:** Contractor shall schedule and conduct all meetings and conferences at the Project site, unless otherwise indicated.
 1. **Attendees:** Contractor shall inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify the GSD and the Engineer of scheduled meeting dates and times.
 2. **Agenda:** Contractor shall prepare the meeting agenda, unless otherwise indicated. Distribute the agenda to all invited attendees.
 3. **Minutes:** Contractor shall record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

1.9. PRECONSTRUCTION CONFERENCE

- A. General: The Preconstruction Conference shall be held prior to the start of construction. This meeting is intended to incorporate the requirements outlined in the General Conditions as well as to coordinate specific installation requirements among trade disciplines.
 - 1. This meeting shall not substitute or reduce the requirements of any required pre-installation meetings or areas of work which will focus on the technical installation of the applicable materials, systems, or assemblies.
- B. The Engineer and GSD will schedule the meeting after Award of the Contract and prior to starting construction. The Contractor will be notified at least five business days in advance of the meeting date.
- C. Attendance Required: The GSD Project Manager, the Engineer, the Contractor Project Manager, the Contractor Superintendent, and the Project Manager of each Subcontractor.
 - 1. All parties in attendance shall carefully review the Contract Documents prior to the meeting and be prepared to discuss all items on the agenda.
- D. Prior to the meeting, the Contractor shall have completed the following and shall have provided these items to the Engineer and GSD at least three days ahead of the Preconstruction Trade Coordination Meeting.
 - 1. Develop Construction Schedule as required per Section 01 32 13 “Scheduling of Work.”
 - 2. Develop schedule of Testing & Inspections as required per Section 01 40 00 “Quality Requirements.”
 - 3. Develop Submittal Log as required per Section 01 33 00 “Submittal Procedures.”
 - a. Identify which Subcontractor is responsible for each submittal and Scope of Work.
- E. The Engineer shall record minutes and distribute copies to the participants within three days of the meeting.
- F. Agenda:
 - 1. Personnel
 - a. Designation of key personnel and their duties.
 - 2. Project Scheduling
 - a. Lines of Communication
 - b. Critical work scheduling including critical submittals
 - c. Major equipment and material deliveries
 - d. Capitol event schedule
 - e. Phasing of Work
 - f. Work Hours
 - g. Progress meeting schedule
 - h. Procedures for disruptions and shutdowns.

3. Construction Site Requirements:
 - a. Requirements and occupancy
 - b. Use of premises by Contractor
 - c. Site Plan and Contractor Laydown area
 - 1) Parking availability
 - 2) Security requirements
 - d. Temporary utilities provided by GSD
 - e. Concurrent projects being conducted in the building and on the Capitol grounds
4. Project Expectations and Communication:
 - a. Project Website
 - b. RFIs, Job Bulletins, Construction Change Directives
 - c. Submittals
 - d. Pay Applications and Change Orders
 - e. Preparation of record documents during construction
5. Quality Control:
 - a. Testing and inspections
 - b. Engineer's Construction Administration Site Visits and Reports and Observations Log
6. Review coordination with related work:
 - a. Installation procedures
 - b. Sequencing of Work
 - c. Compatibility of materials
7. Question regarding Contract Documents and Project Expectations

1.10. PROGRESS MEETINGS

- A. General: Conduct progress meetings at biweekly intervals.
- B. Contractor shall schedule progress meetings throughout progress of the Work at biweekly intervals. The monthly pay meeting, required by the General Conditions, may serve as a progress meeting. Contractor shall coordinate scheduled meeting dates with GSD and Engineer.
- C. Attendance Required: The GSD, the Engineer, and the Contractor Project Manager and Superintendent.
 1. Subcontractors and representatives from suppliers/manufacturers may attend as appropriate to agenda topics for each meeting.
- D. Agenda: Review and correct or approve minutes of the previous progress meeting. Include topics for discussion as appropriate to the status of the Project, including:

1. A brief summary of progress since the previous meeting.
2. Projected work until the next progress meeting.
3. Review of significant items that could affect progress.
4. Overall construction schedule.
5. Issues.
6. Status of Submittals.
7. Status of RFIs.
8. Status of Change Orders.
9. Status of Testing and Inspections.
10. Applications for Payment.
11. Site Visit Report Log.
12. Safety, Security, and Conduct.
13. Owner Coordination.

- E. Meeting minutes: Contractor shall record minutes and distribute copies to each party present and to parties requiring information.

1.11. MONTHLY PAY MEETING

- A. Refer to Section 01 29 00 “Payment Procedures” for detailed requirements regarding payment procedures.
- B. Contractor shall submit the monthly Application for Payment to both the Engineer and GSD at least one day before the scheduled pay meeting.
- C. Contractor shall schedule Pay Meeting no earlier than the 25th day of the month represented by the payment request but no later than the 5th day of the following month. Pay Meeting may correspond with Progress Meeting.
- D. During meeting, Contractor, Engineer, and GSD will review all items included on the payment request as compared to the installed work and materials stored on site.

1.12. PROJECT WEB SITE

- A. Contractor to provide a Project Web Site for the project team for the purposes of hosting and managing project communication and documentation until Final Completion. Project Web Site shall be capable of providing the following functions:
1. Project directory.
 2. Project correspondence.
 3. Meeting minutes.
 4. Contract modification forms and logs.
 5. Submittal forms and logs.
 6. RFI forms and logs.
 7. Task and issue management.
 8. Photographic documentation.
 9. Schedule and calendar management.
 10. Application for Payment forms.
 11. Drawing and specification document hosting, viewing, and updating.

12. Online document collaboration.
13. Reminder and tracking functions.
14. Archiving functions.

- B. Contactor, subcontractors, and other parties granted access to the Project Web Site shall execute a data licensing agreement in the form of Agreement acceptable to the GSD and the Engineer.

1.13. ENGINEER’S CONSTRUCTION ADMINISTRATION SITE VISIT REPORTS

- A. Engineer will conduct periodic site visits to observe the progression of the Work. After each visit, the Engineer will produce a Site Visit Report to document the general progress of work and note any deficiencies and/or deviations from the Contract Documents. Copies will be delivered electronically to the GSD and the Contractor. The Contractor will be responsible for responding to and addressing issues brought forth in these site visit reports.
 1. All efforts should be made to ensure that photographic documentation can be used to illustrate that the issues have been corrected.
- B. Site Visit Report Log: The Contractor shall maintain a Site Visit Report Log based on the observations reported in the Site Visit Reports. The Site Visit Report Log shall include the following:
 1. Site Visit Item Number and Description.
 2. Date First Observed.
 3. Party Responsible for Correction.
 4. Corrective Action and Date Closed.

1.14. DAILY CONSTRUCTION REPORTS

- A. Contractor shall maintain Daily Construction Reports, Material Locations Reports, Field Condition Reports, and Special Reports in accordance with Section 01 32 00 “Construction Progress Documentation.”

1.15. JOB BULLETINS

- A. The Engineer will generally issue supplemental instructions or field direction in the form of Job Bulletins.
- B. Job Bulletins shall only be issued by the Engineer but may be initiated by any of the following cases.
 1. Job Bulletins may be initiated at the Engineer’s discretion. If the Engineer feels additional direction or instructions are required or if the Engineer notes a discrepancy, conflict, or omission within the Contract Documents, the Engineer may initiate a Job Bulletin.
 2. Job Bulletins may be initiated by the GSD. Should the GSD wish to convey changes to the work or additional direction from the GSD through the Engineer, the Engineer will issue a Job Bulletin outlining such directions or changes.

3. Job Bulletins may be initiated by an RFI received from the Contractor. If required, the Engineer may respond to an RFI through issuing a Job Bulletin.
 - C. A Job Bulletin will contain a Transmittal which will indicate how the Engineer has deemed the particular Job Bulletin to be executed. The Transmittal will indicate one of the following options:
 1. “Supplemental Instructions” - This option indicates that the work shall be carried out as a minor change.
 2. “Proposal Request” - This option indicates that the work shall not be carried out, but rather the Contractor is to submit an itemized cost proposal indicating the required change in Contract Time of Contract Sum.
 3. “Construction Change Directive” - This option indicates that the work shall be carried out as a Construction Change Directive.
 - D. “Supplemental Instructions”: Job Bulletins indicated as such are intended to be supplemental instruction and constitute only a minor change that will not result in any changes in the Contract Sum or Contract Time.
 1. Proceeding with the work outlined within the Job Bulletin implies that the Contractor agrees with and acknowledges that work constitutes minor changes.
 2. If the Contractor disagrees with the determination that the Job Bulletin constitutes minor changes, he shall immediately notify Engineer and GSD.
 3. If the Contractor proceeds with work without providing notification that there will be changes in the Contract, the Contractor shall waive all rights to submitting for a Change in Contract Sum or Contract time.
 - E. “Proposal Request”: Job Bulletins indicated as such will include changes to the work that could potentially change the Contract Time or Contract Sum. The Contractor shall not proceed with work outlined within such Job Bulletins until after the receipt of a signed G714 or an approved change order. Changes in the Contract Sum will only be accepted if the Proposal Request is clearly a modification to the Original Construction Project Scope or Scope of Work described herein. Refer to Section 01 26 00 “Contract Modification Procedures” for administrative and procedural provisions regarding Cost Proposals.
 - F. “Construction Change Directive”: Job Bulletins indicated as such are intended to direct the Contractor to proceed with the work, recognizing that there will be changes in the Contract Time. Such Job Bulletins must be signed by both the Engineer and the GSD as the Engineer has no authority to direct changes in the contract. Job Bulletins that would potentially result in a change to the Contract Sum will be issued as Proposal Requests as discussed above where the change is clearly a modification to the Original Construction Project Scope or Scope of Work described herein.
- 1.16. REQUEST FOR INFORMATION (RFI)
- A. General: The Drawings are intended to convey the design intent, Scope of Work, and include provisions for most typical and anticipated assemblies and conditions. With the nature of repair projects, not all unique conditions can be known or detailed prior to execution of the Work.

1. The Contractor shall carefully study and compare Contract Documents before proceeding with fabrication and installation of Work and shall promptly advise the Engineer of any error, inconsistency, omission, or apparent discrepancy discovered.
 2. Immediately on discovery of conditions that differ from or conflict with the Contract Documents or when additional information or interpretation of the Contract Documents is required, the Contractor shall submit an RFI to the Engineer in the form specified.
 - a. All RFIs shall originate with Contractor. RFIs submitted by entities other than Contractor will be returned with no response.
 - b. Coordinate and submit RFI in a prompt manner so as not to avoid delays in Contractor's work or work of subcontractors.
- B. Form: Contractor shall use the RFI form and Log acceptable to the GSD and Engineer. The form is intended to be completed electronically and emailed to the Engineer and GSD or uploaded to the Project Web Site.
- C. Coordination:
1. Contractor shall allot time in the construction scheduling for liaison with Engineer for handling queries and clarifications. Contractor shall coordinate and submit RFIs in a prompt manner so as to avoid delays in Work.
 2. The GSD reserves the right to require the Contractor to reimburse the GSD for additional fees from the Engineer and Engineer's Consultants for performing review services for the Contractor if Engineer is able to respond to a RFI by making specific reference to a Drawing Sheet or Specification Section.
 3. The performance of any Work which is executed without prior direction from the Engineer, either provided within the Contract Documents or provided within subsequent written direction, shall be the sole responsibility of the Contractor.
 4. On receipt of Engineer's response, Contractor shall update the RFI log and immediately distribute the RFI response to affected parties.
- D. Engineer's Action: Engineer will review each RFI, determine action required, and formally respond. Engineer will attempt to respond to request by date indicated on the RFI. Allow ten working days for Engineer's response for each RFI. RFIs received after 1:00 p.m. will be considered as received the following working day.
1. Engineer will review RFIs to determine whether they are RFIs as defined herein. If the Engineer determines that the document is not an RFI, or the form is incomplete, it will be returned to the Contractor, un-reviewed as to content, for resubmittal in the proper manner.
 2. If the Contractor submits an RFI pertaining to an activity within a duration of ten working days or less until the date the information is necessary to perform the work, or at the point at which the information is necessary to avoid delay or extra costs, the Contractor shall not be entitled to any time extension or additional costs due to the time it takes the Engineer to respond to the request, provided that the Engineer responds within the ten business days or additional time the Engineer determines is required to review and formally respond to the RFI.
 - a. Response requiring complicated or extensive design, calculations, coordination, or scope changes could require additional time to develop a formal response. If the Engineer determines that a longer time is necessary to respond to the RFI, the Engineer will notify the Contractor within five business days of receipt of the RFI.

3. Engineer's action may include a request for additional information, in which case Engineer's time for response will start again after receipt of additional information.
 4. In the event the response by the Engineer is not made in the time set forth in this Specification, the Contractor shall immediately notify the Engineer in writing of any responses that are needed to avoid delay or extra costs in connection with the project. The Contractor shall not be entitled to any extension of time or additional costs unless such immediate written notification is made.
 5. The following RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Request for approval of Contractor's means and methods.
 - d. Requests for coordination information already indicated in the Contract Documents.
 - e. Requests for adjustments in the Contract Time or the Contract Sum.
 - f. Requests for interpretation of Engineer's actions on submittals.
 - g. Incomplete RFIs or RFIs with numerous errors.
 - h. Direction on means, methods, scheduling, sequences, or safety procedures.
 6. Engineer's response may result in a change to the Contract Time or the Contract Sum. Contractor may be eligible to submit a Change Proposal in accordance with Section 01 26 00 "Contract Modification Procedures" based on the Engineer's response to the RFI.
 - a. If the Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Engineer and the GSD in writing within five days of receipt of the RFI response and prior to commencing the Work.
 7. Contractor to notify the Engineer and GSD within three days of receipt of response if Contractor disagrees with response.
- E. RFI Content: Include a detailed, legible description of the item needing information or interpretation and the following:
1. Project name.
 2. Date.
 3. Name and address of Contractor.
 4. Name and address of Engineer.
 5. RFI number, assigned sequentially.
 6. Drawing number and detail references.
 7. Technical reference from the Technical Specifications included on the Drawings.
 8. Field-verified dimensions and conditions.
 9. Contractor's suggested resolution. If Contractor's resolution impacts the Contract Time or the Contract Sum, Contractor shall state the impact in the RFI.
 10. Contractor's signature.
 11. Attachments, as applicable. Include sketches, descriptions, measurements, photographs, product data, shop drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
- F. RFI Log Content: Contractor shall maintain in the field office a printed copy of the RFI Log indicating current status of each item. RFI Log shall also be available electronically on the Project Web Site. RFI Log shall indicate:

1. Project name.
2. Name and address of Contractor.
3. Name and address of Engineer.
4. RFI number, assigned sequentially including RFIs that were dropped and not submitted.
5. RFI description.
6. Date the RFI was submitted.
7. Date Engineer's response was received.
8. Note indicating if modifications or changes to the Contract Documents are required per RFI response indicating the applicable Job Bulletin.

PART 2 - PRODUCTS
NOT USED.

PART 3 - EXECUTION
NOT USED.

END OF SECTION 01 31 00

WDP AutoCAD File Release Form

WDP & Associates Consulting Engineers, Inc. (WDP) will provide the AutoCAD Drawing files for the Drawing Sheets listed below to the Contractor for their reference only. The elevations, plans, and sections shown in the drawing files are based on limited field investigations by WDP. As such, the Contractor is responsible for verifying all conditions, materials, dimensions, and locations in the field. Any changes made to these files are the responsibility of the Contractor. Access to these AutoCAD files does not supersede the Contractor's responsibility for developing Shop Drawings based on field verified conditions as outlined in the Contract Documents. In signing this form, the Contractor and Sub-Contractor acknowledge their understanding of these responsibilities. Upon receipt of signatures on this form, WDP will release the files to the Contractor.

Hinton, WV

Manassas, VA

Charlottesville, VA

Blacksburg, VA

Myrtle Beach, SC

New York, NY

Project Name: West Virginia North Stair Repair Project – Phase 2
 WDP Job No: 21060

Contractor: _____

Project Manager: _____

Signature: _____

Date: _____

Sub-Contractor: _____

Project Manager: _____

Signature: _____

Date: _____

AutoCAD files for the following Drawing Sheets will be provided:

SECTION 01 32 00

CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes the following:
 - 1. Submittals Schedule.
 - 2. Construction Photographs.
 - 3. Material Location Reports.
 - 4. Daily Construction Reports.
 - 5. Site Condition Reports.
 - 6. Special Reports.

1.3. RELATED SECTIONS

- A. Section 01 29 00 – “Payment Procedures”
- B. Section 01 31 00 – “Project Management and Coordination”
- C. Section 01 32 13 – “Scheduling of Work”
- D. Section 01 32 33 – “Photographic Documentation”
- E. Section 01 33 00 – “Submittal Procedures”

1.4. SUBMITTALS

- A. Submittal Schedule: Submit submittal schedule in accordance with Section 01 33 00 “Submittal Procedures.”
- B. Material Location Reports: Submit documentation of material location for materials stored off-site to be in a bonded storage warehouse and so noted with each application for payment, as applicable, in accordance with Section 01 29 00 “Payment Procedures.”
- C. Submission of the following information can be done utilizing the Project Web Site as outlined

in Section 01 31 00 “Project Management and Coordination.”

1. Preconstruction, Weekly, and Post-Construction Photographs: Submit progress photographs in accordance with Section 01 32 33 “Photographic Documentation.”
2. Daily Construction Reports: Submit copies of the week’s daily reports.
3. Site Condition Reports: Submit reports at time of discovery of differing conditions. Include RFI if conditions require additional instructions.
4. Construction Schedule Revisions: Submit updates to the construction schedule at regular intervals as construction progresses. Submit revisions with revision date indicated on the schedule.

D. Special Reports: Submit documentation at time of unusual event to the Engineer and the GSD.

PART 2 - PRODUCTS

2.1. SUBMITTALS SCHEDULE

- A. Prepare Submittal Schedule in accordance with Section 01 33 00 “Submittal Procedures”
- B. The Submittal Schedule shall be integrated into the construction schedule in accordance with Section 01 32 13 “Scheduling of Work.”
- C. Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, resubmittal, ordering, manufacturing, fabricating, and delivery when establishing dates.
- D. Coordinate Submittals Schedule with list of Subcontracts, the Schedule of Values, and Contractor’s Construction Schedule.

2.2. CONSTRUCTION PHOTOGRAPHS

- A. Construction photographs used to document construction progress shall be in accordance with Section 01 32 33 “Photographic Documentation.”

2.3. REPORTS

- A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project Site:
 1. List of Subcontractors on site.
 2. Approximate count of personnel on site.
 3. Equipment at site.
 4. Material deliveries.
 5. High and low temperatures and general weather conditions.
 6. Accidents.
 7. Meeting and significant decisions.
 8. Unusual events (refer to applicable special reports).
 9. Stoppages, delays, shortages, and losses.

10. Meter readings and similar recordings.
 11. Emergency procedures.
 12. Orders and requests of authorities having jurisdiction.
 13. Change Orders received and implemented.
 14. Construction Change Directives received and implemented.
 15. Incidents involving public or building occupants, specifically harassment.
 16. Services connected and disconnected.
 17. Equipment or system tests and startups.
 18. Partial Completion and occupancies.
 19. Substantial Completions authorized.
 20. Work performed, including deliveries and placement reports.
- B. Material Locations Reports: At monthly intervals, prepare a comprehensive list of materials delivered to and stored at project site. List shall be cumulative, showing materials previously reported plus items recently delivered. Include with list a statement of progress on and delivery dates for materials or items of equipment fabricated or stored away from project site. For materials stored away from the project site, include the following categories for stored materials:
1. Material stored prior to previous report and remaining in storage.
 2. Material stored prior to previous report and since removed from storage and installed.
 3. Material stored following previous report and remaining in storage.
- C. Site Condition Reports: Immediately on discovery of a difference between field conditions and the Contract Documents, prepare a detailed report. Submit such report with an RFI, if required. Include a detailed description of the differing conditions, together with recommendations for addressing such differences.
- D. Special Reports: Submit special reports directly to GSD within one day of occurrence. Distribute copies of report to parties affected by the occurrence.
1. Reporting Accidents: When an accident occurs at project site, whether or not related directly to the Work, prepare and submit a special report. List chain of events, persons injured, witnesses, first responders, hospital, or clinic where injured was treated. Notify GSD immediately when an accident resulting in an injury occurs.

PART 3 - EXECUTION

3.1. CONSTRUCTION PROGRESS

- A. Contractor to update the Project Web Site at reasonable intervals in accordance with Section 01 31 00 "Project Management & Coordination."
1. Submittals, photographs, and reports should be uploaded to the Project Web Site within twenty-four hours of being generated.
 2. Contractor's Construction Schedule should be uploaded to the Project Web Site whenever revisions are made.
- B. Contractor to maintain a submittal schedule through the Project Web Site that includes the status of all submittals, including:

1. Date Submitted to Engineer
 2. Due Date to return to Contractor
 3. Date Returned to Contractor from Engineer
 - a. Action required from Engineer's response, if applicable
- C. Contractor to maintain records of all reports generated during the period of construction through the Project Web Site.
- D. Contractor to update Contractor's Construction Schedule in accordance with Section 01 32 13 "Scheduling of Work."

END OF SECTION 01 32 00

SECTION 01 32 13

SCHEDULING OF WORK

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes provisions for developing, submitting, updating, and maintaining a construction schedule, including:
 - 1. Preliminary Construction Schedule
 - 2. Contractor's Construction Schedule
- B. This section includes general considerations for scheduling of work.

1.3. RELATED SECTIONS

- A. Section 01 14 00 – “Work Restrictions & Use of Site”
- B. Section 01 26 00 – “Contract Modification Procedures”
- C. Section 01 29 00 – “Payment Procedures”
- D. Section 01 32 00 – “Construction Progress Documentation”
- E. Section 01 33 00 – “Submittal Procedures
- F. Section 01 40 00 – “Quality Requirements”

1.4. DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
 - 1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
 - 2. Predecessor Activity: An activity that precedes another activity in the network.

3. Successor Activity: An activity that follows another activity in the network.
- B. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.
- C. Normal Weather Conditions: Normal weather does not mean statistically average weather but rather means a range of weather patterns which might be anticipated based on weather conditions and shall be determined from the public historical records available, including the U.S. Department of Commerce, Local Climatological Data Sheets, National Oceanic and Atmospheric Administration/ Environmental Data and Information Services, National Climatic Center, and National Weather Service. The data sheets to be used shall be those for the locality or localities closest to the Project Site.

1.5. SUBMITTALS

- A. Preliminary Construction Schedule: Contractor shall submit Preliminary Construction schedule to the GSD and the Engineer within 72 hours of issue of Notice to Proceed. Schedule shall be as detailed as possible. The Preliminary Construction Schedule shall include the following milestones:
 1. Notice to Proceed
 2. Site Mobilization
 3. Substantial Completion
 4. Final Completion
 5. Anticipated shutdown of existing building systems
- B. Contractor's Construction Schedule: Contractor shall submit detailed Construction Schedule no more than five business days after the Preconstruction Conference, but prior to the first progress meeting.

1.6. GENERAL REQUIREMENTS

- A. The Contractor's proposed Construction Schedule shall be subject to re-evaluation on a regular basis to verify work actually performed is on schedule for the substantial completion date.
 1. Time for the following tasks shall be accounted for in the durations of the Contractor's proposed Construction Schedule:
 - a. Time for submittal review and approval prior to such work being installed.
 - b. Time for Engineer observations.
 - c. Time for RFI and RFI Responses.
- B. The Contractor's detailed Construction Schedule shall indicate each step of demolition and construction, with trades involved, coordination required, and extent of completion to be accomplished.
- C. The Contractor's detailed Construction Schedule shall clearly indicate scope and time period, as required by the GSD for scheduling building activities. All schedule conflicts shall be resolved by the close of the Preconstruction Meeting with a final written schedule provided by the

Contractor within five days thereafter.

- D. The Contractor shall take into consideration normal weather conditions when developing the Construction Schedule. No additional compensation will be paid to the Contractor because of adverse weather conditions; however, an extension of time for abnormal weather will be considered by the GSD under the following conditions:
 - 1. The request for additional time shall be further substantiated by weather data collected during the period of delay at the Project Site. Said data must demonstrate that an actual departure from normal weather occurred at the Project Site during the dates in question.
 - 2. A request for extension of time based on abnormal weather must be made in writing within five calendar days of the completion of the calendar month during which abnormal weather is claimed at the Project Site. The request must be accompanied by evidence supporting the request including both historical data and the recordings at the Project Site during the time of delay.
- E. The Contractor shall account for local conditions, availability of materials, equipment, and labor, and any other factors which may affect the performance of the work when developing the Construction Schedule.
- F. The Contractor shall develop the Construction Schedule such that Final Completion of the Work will be achieved no later than fifteen days after achieving Substantial Completion.

1.7. COORDINATION

- A. When scheduling, the Contractor shall prepare a detailed Construction Schedule for coordinating the work with the building occupancy and activities, indicating dates for beginning and completing each operation and item of work as the Contractor proposes to pursue the work.
- B. The flow of work shall be planned and coordinated to begin and complete work at each work location in a continuous flow of work activity.
- C. Work shall be scheduled to take full advantage of time available and to follow each work effort with the next work operation as quickly as curing times, drying times, proper project management and coordination, and good workmanship will permit.
- D. Coordinate preparation and processing of schedules and reports with performance of construction activities and with scheduling and reporting of separate contractors.
- E. Coordinate Contractor's Construction Schedule with the Schedule of Values, list of Subcontracts, Submittals Schedule, progress reports, payment requests, and other required schedules and reports.
 - 1. Secure time commitments for performing critical elements of the Work from parties involved.
 - 2. Coordinate each construction activity in the network with other activities and schedule in proper sequence.
- F. Temporary Egress: Temporary closures of egress doors shall be coordinated with the State Fire Marshall and the GSD. All proper signage, at both the interior and exterior of the Capitol, shall be installed and inspected prior to the closure of any entrance directing pedestrians to the alternate

entrances.

1. Any changes to the means of ingress or egress shall be approved in writing by the GSD prior to implementation. Requests for changes to the ingress and egress shall be submitted to allow no less than seven calendar days for GSD review. Any changes to the accessible route shall be included with an updated project schedule. If required, interior signage shall be revised to accurately indicate egress and will need to be approved in writing by the GSD.
- G. Coordinate any temporary shutdown of mechanical, electrical, or plumbing systems required to execute the work. Requests for shutdown of such systems shall be submitted to allow no less than seven calendar days for GSD review. If requested by the GSD, provide temporary utility accommodations during a temporary shutdown.
- H. Coordinate existing utility interruptions with the GSD that are required to execute the work. Requests for interruptions to existing utilities shall be submitted in writing to allow no less than fourteen calendar days for GSD review.
 1. Do not proceed with utility interruptions without GSD's written permission.

1.8. PROJECT SPECIFIC SCHEDULING REQUIREMENTS

- A. Overtime, night-work, or weekend work either required by the original construction schedule or required by the Contractor's failure to maintain the project according to schedule shall not be grounds for any Contract Modifications including change in contract amount or contract time.
- B. A minimum of seven days will be required to obtain security clearances and undergo fingerprinting for all Contractor personnel in accordance with Section 01 14 00 – "Work Restrictions and Use of Site." An additional three days will be required to obtain access card once security clearance has been received by the Division of Protective Services.
- C. The work shall be conducted in a phased approach such that areas yet to be repaired do not impact repairs that have previously been executed.

1.9. QUALITY ASSURANCE

- A. Schedule Development: Project schedule to be developed by a project manager or experienced consultant familiar with all aspects of the project, to include, but not limited to: mobilization requirements, access requirements, project coordination, familiarity with installation requirements to develop accurate durations for activities, quality control oversight, testing and inspection requirements, and closeout requirements.

1.10. PROJECT MILESTONES

- A. Base Bid:
 1. Notice to Proceed: February 2023
 2. Mobilization to Site: March 2022
 3. Commence Concrete Demolition: April 2022
 4. Substantial Completion: 15 calendar days prior to Final Completion.

5. Final Completion: 285 calendar days from Notice to Proceed.
 - a. All work, including all punch list items, must be complete prior to this date.
- B. Bid Alternate 1: If Bid Alternate 1 is accepted, then the Project Milestone shall be adjusted as follows:
 1. Notice to Proceed: February 2023
 2. Mobilization to Site: March 2022
 3. Commence Concrete Demolition: April 2022
 4. Substantial Completion: 15 calendar days prior to Final Completion.
 5. Final Completion: 255 calendar days from Notice to Proceed.
 - a. All work, including all punch list items, must be complete prior to this date.

PART 2 - PRODUCTS

2.1. PRELIMINARY CONSTRUCTION SCHEDULE

- A. Preliminary Construction Schedule shall follow the requirements for the Contractor's Construction Schedule and represent the Contractor's intended final Construction Schedule. Only after comments from the GSD and the Engineer have been incorporated will this be considered the Contractor's Construction Schedule.

2.2. CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. General: Contractor's Construction Schedule shall be comprehensive in nature and clearly indicate Scope of Work and time period. Contractor shall prepare a detailed sequence of operations for coordinating and executing the work, indicating dates for beginning and completing each operation and item of work as the Contractor proposes to pursue the work.
 1. The flow of work shall be planned and coordinated to begin and complete work at each work location in a continuous flow of work activity.
 2. Work shall be scheduled to have the least impact to occupants as possible and in a manner that the work is continuous in each space once the occupant is relocated.
 3. Work shall be scheduled to take full advantage of time available and to follow each work effort with the next work operation as quickly as curing times, drying times, proper project management and coordination, and good workmanship will permit.
 4. The Contractor's Construction Schedule shall be subject to re-evaluation on a regular basis to verify work actually performed is on schedule for the completion date required by the GSD.
 5. The Contractor's Construction Schedule shall indicate each step of demolition and construction, with trades involved, coordination required and extent of completion to be accomplished.
 6. Overtime work shall not be included in the Contractor's Construction Schedule unless approved by the GSD in writing.

- a. Contractor's construction schedule should incorporate work hours beyond normal business hours to address spaces that would have a significant disruption to building occupants.
7. Contractor's failure to maintain the project according to schedule shall not be grounds for any Contract Modifications including change in contract amount or contract time.
- B. Time Frame: Extend schedule from date established for the Notice to Proceed to date of Final Completion.
 1. Contract completion date shall not be changed by submission of a schedule that shows an early or late completion date, unless specifically authorized by approved Change Order.
- C. Format: Gantt-Chart Schedule unless another format is approved by the GSD.
- D. Activities: Treat each phase as a separate numbered activity for each principal element of the Work. Indicate the estimated time duration, sequence requirements, and relationship of each activity in relation to other activities.
 1. Activity Duration: Define activities so no activity is longer than twenty days, unless specifically allowed by Engineer and GSD.
 2. Critical Activities: Identify which activities within the schedule are considered critical path activities.
 3. Include estimated time frames for the following activities:
 - a. Submittal Review Activities: Include review and resubmittal times indicated in Section 01 33 00 "Submittal Procedures" in schedule.
 - 1) Identify essential submittal packages and submittal approval deadlines
 - 2) Integrate submittal schedule into construction schedule in accordance with Section 01 32 00 "Construction Progress Documentation"
 - b. Procurement of Materials: Include procurement process activities for long lead items and major items, requiring a cycle of more than thirty days, as separate activities in the schedule.
 - 1) Purchase of materials.
 - 2) Delivery.
 - 3) Fabrication.
 - c. Mobilization and demobilization.
 - 1) Coordinate and allow for time for access provisions to be installed or erected.
 - d. Installation and execution of the Work.
 - 1) Identify dates where hidden conditions will be available for observations in order to verify existing conditions. Allow for time for the development of RFIs and RFI responses after each condition is exposed.
 - 2) Include specific days that Work will be conducted in different areas around the building.

- e. Quality Assurance Activities: Include time for Quality Assurance testing in accordance with Section 01 40 00 “Quality Requirements.”
 - 1) Coordinate review of quality control testing and inspections included in each individual technical specification reference as shown on the Drawings.
 - 2) Include time for Engineer observations.
 - f. Work requiring coordination with other entities:
 - 1) Utility interruptions.
 - 2) Work by Owner that may affect or be affected by Contractor's activities.
 - 3) Known Capitol events, including any “no work” days or workdays with reduced hours.
 - 4) Identify all planned changes to building egress and occupant access.
 - g. Milestones:
 - 1) Award of Contract
 - 2) Notice to Proceed
 - 3) Preconstruction Conference
 - 4) Mobilization
 - 5) Preinstallation Conferences
 - 6) Erection of Temporary Barriers & Pedestrian Protection
 - 7) Erection of Temporary Weather Enclosure
 - 8) Removal of Stonework
 - 9) Structural Concrete Demolition
 - 10) Substantial Completion: Indicate completing in advance of date established for Substantial Completion and allow time for Engineer’s administrative procedures necessary for certificate of Substantial Completion.
 - 11) Punch List: Include time for punchlist items to be completed prior to Final Completion.
 - 12) Final Completion
- E. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as outlined below and show how the sequence of Work is affected:
- 1. Work under more than one Contract: Include a separate activity for each contract.
 - 2. Work Restrictions: Show the effect of the following items on the schedule:
 - a. Coordination with existing construction.
 - b. Coordination with building occupant activities and limitations of continued occupancy.
 - c. Uninterruptible services.
 - d. Seasonal variations.
 - e. Environmental Control.
 - f. Provisions for future construction.
 - g. Limitations to times and period of permitted interior access.
 - h. Use of site restrictions outlined in Section 01 14 00 “Work Restrictions and Use of Site.”

3. Work Stages and Phasing: Indicate important stages of construction for each major phase of the Work. Identify where each construction activity within each space must be sequenced or integrated with other construction activities
- F. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis to demonstrate the effect of the proposed change on the overall project schedule complying with Section 01 26 00 “Contract Modification Procedures.”

PART 3 - EXECUTION

3.1. CONTRACTOR’S CONSTRUCTION SCHEDULE

- A. Contractor’s Construction Schedule Updating: At bi-weekly intervals, update schedule to reflect actual construction progress and activities. Issue schedule updates at least one day before regularly scheduled progress meeting.
 1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made.
- B. Distribution: Distribute copies of approved schedule to Engineer, GSD, testing and inspection agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
 1. Post copies in temporary field offices.
 2. Submit updated Construction Schedule with each Application for Payment in accordance with Section 01 29 00 “Payment Procedures.”
 3. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

END OF SECTION 01 32 13

SECTION 01 32 33

PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This Section includes administrative and procedural requirements for the following:
 - 1. Special Project Coordination for Historical Documentation.
 - 2. Preconstruction photographs.
 - 3. Weekly construction photographs.
 - 4. Post-construction photographs.

1.3. RELATED SECTIONS

- A. Section 01 31 00 – “Project Management and Coordination”

1.4. SPECIAL PROJECT COORDINATION

- A. Due to the historic nature of the building, additional coordination will be required for photographic documentation with the State Historic Preservation Office (SHPO) and the West Virginia Division of Culture and History.
 - 1. Contractor shall provide access for representatives from SHPO and the West Virginia Division of Culture and History to observe and document construction progress. Access shall also be provided to official State photographers if requested by the GSD.
 - 2. Coordination with SHPO and the West Virginia Division of Culture and History will typically be performed through the GSD.
- B. Should artifacts be uncovered during the demolition process that are identified to have historical significance to the building, Contractor shall document the time and location in which such items are found and take photographs of the artifact prior to removal.
 - 1. Contractor to notify the GSD immediately upon finding the artifact. Contractor shall not remove the item until specifically directed to do so by the GSD.
 - 2. GSD will coordinate with SHPO and the Division of Culture and History to determine if additional photographic documentation of the finding should be recorded.

1.5. SUBMITTALS

- A. General: Submit a complete set of digital image electronic files, photographs, and videos as a Project Record Document on an external hard. Identify electronic media with date photographs were taken. Submit images that have same aspect ratio as the sensor, un-cropped and uncompressed.
 - 1. Include photograph log indicating the locations and condition shown in each photograph.
 - 2. All submitted files shall be compatible with Google Workspace applications.
- B. Preconstruction Photographs:
 - 1. Coordinate preconstruction photographic documentation to ensure all existing conditions in and around the Capitol Building and the site are documented. Any existing damages which could be construed to be a result of Construction Activities shall be sufficiently documented prior to mobilization and will be considered as a result of this project without documentation in the form of preconstruction photographs taken prior to mobilization.
- C. Weekly Construction Photographs:
 - 1. Submit photographic documentation showing progression of construction and installation of Work. Photographs should be uploaded to the Project Web Site in accordance with Section 01 31 00 “Project Management and Coordination.” Upon completion of the Work, these photographs shall be compiled and submitted on external hard drive.

PART 2 - PRODUCTS

2.1. PHOTOGRAPHIC MEDIA

- A. Digital Images: Provide images in uncompressed JPG files, produced by a digital camera with minimum sensor size of 12 megapixels, and at an image resolution of not less than 4032 by 3024 pixels.
 - 1. Filename Format: Include date and time in filename for each image. The filename for each image shall be formatted as “YYYY-MM-DD_HH:MM_XXXX.jpg” where:
 - a. YYYY is the year in four-digit format.
 - b. MM is the month in two-digit format.
 - c. DD is the day of the month in two-digit format.
 - d. HH is the hour, in 24-hour format, including any leading zero.
 - e. MM is the minute in two-digit format.
 - f. XXXX is a unique number and/or text descriptor of any length assigned to the image.
- B. ARCHIVAL MEDIA
 - 1. External Hard Drive: Solid-state external hard drive with sufficient capacity to contain all files uncompressed.

PART 3 - EXECUTION

3.1. GENERAL

- A. Take photographs using the maximum range of depth of field and that are in focus, to clearly show the intended conditions. Photographs with blurry or out-of-focus areas will not be accepted.
 - 1. Maintain key plan with each set of construction photographs that identifies each photographic location.
- B. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
 - 1. Date and Time: Include date and time in filename for each image.

3.2. PRECONSTRUCTION PHOTOGRAPHS

- A. Before commencement of work and acceptance of the site and staging, the Contractor shall perform a preconstruction walkthrough and document existing damage to Capitol Building interiors and exteriors, grounds, and landscaping for the areas that could potentially be impacted by the Contractor. Documentation shall be in the form of digital photographs keyed to Floor Plans, Site Plans, or Elevations. Take digital photographs of existing Project site and existing surrounding properties, including existing items to remain during construction, from different vantage points, and additional areas as directed by the Engineer or GSD. Photographic Documentation shall include the following:
 - 1. Lay down area, staging areas, and locations of temporary access before construction.
 - 2. Documentation of the condition of the existing landscaping.
 - 3. As many photographs as necessary to show existing conditions adjacent to property before commencing the Work.
 - 4. Documentation of existing conditions within each individual room impacted for this project. Documentation should include placement of furniture within the space and indication of any damage to existing walls, ceiling, floors, or items within the space. Any item that becomes damaged during the execution of the work will be considered the responsibility of the Contractor to repair or replace unless photographic documentation of the damage prior to the start of the work can be provided.
 - 5. As many photographs as necessary of the existing buildings either on or adjoining the property to accurately record physical conditions at start of construction.
 - 6. Existing damaged conditions: Photograph all areas around the construction site where existing damages to the building or site are present. Failure to document existing damages will result in the Contractor being responsible for any and all damages to the site and building not photographically documented as an existing condition.
 - 7. The photographs shall be submitted to the GSD and the Engineer prior to the start of Work.

3.3. PROGRESS PHOTOGRAPHS

- A. Take not less than twenty-four digital progress photographs weekly. Select vantage points to show status of construction and progress since last photographs were taken.

1. Photographs shall clearly document installation of details and show the sequencing of the Work.
- B. Additional Photographs: Engineer or GSD may issue requests for additional photographs, in addition to weekly photographs specified.
1. Two (2) days' notice will be given, where feasible.
 2. In emergency situations, take additional photographs within twenty-four (24) hours of request.
 3. Circumstances that could require additional photographs include, but are not limited to, the following:
 - a. Discovery of any unforeseen conditions or unmarked utilities.
 - b. Special events planned at Project site.
 - c. Immediate follow-up when on-site events result in construction damage or losses.
 - d. Substantial Completion of a major phase or component of the work.
 - e. Close out of item reported within an Engineer's Construction Administration Site Visit Report.
 - f. Extra record photographs at time of final acceptance.
 - g. GSD's request for special publicity photographs.

END OF SECTION 01 32 33

SECTION 01 33 00

SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes the following:
 - 1. Submittal Administrative Requirements.
 - 2. Submittal Log.
 - 3. Submittals.
 - a. Product Data and Manufacturer's Requirements.
 - b. Shop Drawings.
 - c. Samples for Approval.
 - 4. Submittal Procedures.
 - 5. Contractor's Review.
 - 6. Engineer's Action.

1.3. RELATED SECTIONS

- A. Section 01 31 00 – “Project Management and Coordination”
- B. Section 01 32 13 – “Scheduling of Work”

1.4. DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Engineer's responsive action. Action submittals are those submittals indicated in the Specifications as Submittals.
- B. Informational Submittals: Written and graphic information and physical samples that do not require Engineer's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in in the Specifications as Informational Submittals.

1.5. SUBMITTALS

- A. Submittal Schedule: Prepare and submit a submittal schedule, arranged in chronological order by dates required by construction schedule and critical path in accordance with Section 01 32 13 “Scheduling of Work.” Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by the Engineer and additional time for handling and reviewing submittals required by those corrections.
1. Coordinate submittal schedule with list of subcontractors, schedule of values, and Contractor’s construction schedule.
 2. Format: Arrange the following information in tabular format:
 - a. Specification section number
 - b. Scheduled date for first submittal.
 - c. Scheduled date for Engineer’s final release or approval.
 - d. Description of Work covered.
 - e. Name of subcontractor.
 3. Submit submittal schedule on or before the Preconstruction Conference in accordance with Section 01 31 00 “Project Management and Coordination.”

1.6. SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Engineer’s Digital Data Files: Electronic digital data files of the Contract Drawings can be provided by the Engineer for Contractor's use in preparing submittals upon request.
1. Engineer will furnish Contractor one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings.
 2. Engineer makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
 3. Digital Drawing Software Program: The Contract Drawings are available in AutoCAD file format
 4. Contractor shall execute a data licensing agreement in the form of an Agreement form acceptable to Engineer and GSD.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Submit all submittal items required for each work type concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 3. Submit action submittals and informational submittals required by the same work type as separate packages under separate transmittals.
 4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 5. The Engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

- C. Processing Time: Allow time in the Construction Schedule for submittal review, including time for resubmittals. Time for review shall commence on Engineer's receipt of submittal. Submittals received after 1:00 PM will be considered as received the following business day. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
1. Initial Review: Allow ten business days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Engineer will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Resubmittal Review: Allow ten days for review of each resubmittal.
 4. Sequential Review: Where sequential review of submittals by Engineer's consultants, GSD, or other parties is indicated, allow five days for each party's initial review of each submittal.
 5. Additional Review Time: Complicated, complex, or very detailed submittals may require longer for review.
 - a. When Contractor has submitted multiple submittal packages within the same review period, review of all packages within the same period may not be possible. Contractor should identify those packages that are most critical, and Engineer will make every effort to review those packages first.
- D. Electronic Submission: Assemble submittal package into a single, indexed file incorporating submittal requirements referenced in the technical Specification section and transmittal form with links and bookmarks enabling navigation to each item.
1. Electronic submissions should be through the Project Web Site.
 2. Name file with a number or unique identifier, including revision identifier. File name can match that of the Submittal Number and Title.
 3. Transmittal Form: Include a transmittal form with each submittal including the following identification information:
 - a. Indicate name of firm or entity that prepared each submittal on label or title block.
 - b. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings.
 - c. Include the following information for processing and recording action taken:
 - 1) Project name.
 - 2) Date.
 - 3) Name of Engineer.
 - 4) Name of Contractor.
 - 5) Name of Subcontractor.
 - 6) Name of supplier.
 - 7) Name of manufacturer.
 - 8) Submittal number and title or other unique identifier, including revision identifier.
 - 9) Number and title of appropriate technical Specification section.
 - 10) Drawing number and detail references, as appropriate.
 - 11) Location(s) where product is to be installed, as appropriate.
 - 12) Transmittal Method (electronic, post mail, in-person)

13) Other necessary identification.

- E. Re-submittals: Make re-submittals in same form and number of copies as initial submittal. Make re-submittals under procedures specified for initial submittals.
 - 1. Note date and content of previous submittal.
 - 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 - 3. Clearly identify changes made since previous submittal.
 - 4. Resubmit submittals until they are marked with approval notation from Engineer's action stamp.
 - 5. Engineer will record time required to review re-submittals after original submittal and first re-submittal.
 - a. GSD retains the right to require the Contractor to reimburse GSD for additional charges from the Engineer or Engineer's Consultants for reviewing a submittal more than two times unless the processing results from approved Change Orders causing revisions to previously approved submittals.
- F. Distribution: Furnish copies of submittals approved by the Engineer to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
 - 1. Contractor shall provide each testing and inspection agency one set of approved submittals for their exclusive use in providing specified quality control testing and inspection services.
 - 2. The GSD shall receive copies of all approved submittals, including Shop Drawings and product data.
- G. Use for Construction: Retain complete copies of submittals on Project site. Use only final submittals that are marked with approval notation from Engineer.
- H. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by the Engineer on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
- I. Incomplete or Partial Submittals: Engineer will not review partial or incomplete submittals. Complete submittals for each item are required.
 - 1. Engineer will return a submittal without processing if it does not contain Contractor's stamp; it is not initialed or signed by authorized person; it is not dated; or it becomes evident that they have not been properly reviewed.
 - 2. Submittals will not be considered official until it is complete in every respect.
 - 3. Delays resulting from returned submittals due to being incomplete or partial are the responsibility of the Contractor.

PART 2 - PRODUCTS

2.1. SUBMITTAL LOG

- A. Contractor shall maintain a copy of the submittal log indicating current status of each item in the field office and an electronic copy on the Project Web Site in accordance with Section 01 31 00 "Project Management and Coordination."
- B. Submittal Log Format: Arrange the following information in a tabular format:
 - 1. Scheduled date for first submittal.
 - 2. Technical Specification section number and title.
 - 3. Submittal category: Action or Informational.
 - 4. Name of Subcontractor.
 - 5. Description of the Work covered.
 - 6. Scheduled date for Engineer's final release or approval.

2.2. SUBMITTALS

- A. General: Submittal shall include information as specified in each individual technical Specification section as needed to show the products and procedures used for the Project are in compliance with the Contract Documents.
 - 1. Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Engineer will discard submittals received from sources other than Contractor.
 - 2. Options: Identify options requiring selection by the Engineer.
 - 3. Deviations: Identify deviations from the Contract Documents on submittals.
 - 4. Transmittal shall include references to Drawing Details and locations where product is to be installed, as appropriate.
- B. Product Data and Manufacturer's Instructions Submissions: Collect information into a single submittal for each element of construction and type of product or equipment. Include all product information required to show compliance with performance requirements outlined in each individual Specification section.
 - 1. General: If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data. Mark each copy of each submittal to show which products and options are applicable.
 - 2. Product Data: Include the following product data information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.

- i. Material compatibility.
 - j. Warranty information.
 - 3. Manufacturer's Instruction: When required in individual technical Specification sections, submit manufacturer's printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, in quantities specified for product data.
 - a. Identify conflicts between manufacturer's instructions and Contract Documents.
 - b. All data, instructions, and technical bulletins shall be the most current version of the documents available from the manufacturer.
 - 4. Submit Product Data and Manufacturer's Instructions before or concurrent with submission of Samples for Approval.
- C. Shop Drawing Submissions: Where required by individual Specification section or necessary to coordinate the work of overlapping or adjacent trades, include coordinated Shop Drawings that clearly convey installation of products and methods for specified systems. Product Data Submissions should accompany all Shop Drawing Submissions to provide additional information on products included in Shop Drawings.
- 1. Provide project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents.
 - 2. Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurements.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of Professional Engineer if specified.
 - 3. Contractor shall submit complete sets of each Shop Drawing package in a single organized file.
 - 4. Contractor shall present all drawings in a clear and consistent manner. Each drawing shall contain the project name and number; identify each element of the drawings by reference to sheet number and detail or schedule of the Contract Documents.
 - 5. Contractor shall show details, materials, dimensions, thickness, methods of assembly, attachments, relation to adjoining Work, and other pertinent data and information.
 - 6. Shop Drawings shall be developed based on field verified dimensions. Contractor shall verify dimensions and field conditions and clearly indicate both.
 - 7. Contractor shall not use Contract Drawings for Shop Drawings and shall provide original Shop Drawings with changes from Contract Drawings clearly indicated.
 - 8. No item shall be marked as "By Others" or similarly. Each item shall be called out and coordinated between various trades or Subcontractor's Shop Drawings.
 - 9. Contractor shall allot time in construction scheduling for Engineer to review Shop Drawings.

- a. Where Shop Drawings include design calculations and/or unique and atypical conditions, review of Shop Drawings may require more than the specified ten business days for Engineer's review.
- D. Submission of Samples for Approval: Where required by individual technical Specification sections, Contractor to submit physical samples of products to illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate samples submittals for interfacing work.
 1. Approval of submittal will be required by both the Engineer and the GSD.
 2. Include identification on each sample, with full project information.
 3. Submit the number of samples specified in individual technical Specification sections.
 4. Transmit Samples that contain multiple, related components such as accessories, together in one submittal package.
 5. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Technical Specification section.
 6. Provide corresponding electronic submittal of Sample transmittal, including digital image file illustrating Sample characteristics, and identification information for record.
 7. Submit Product Data and Manufacturer's Instructions before or concurrent with submission of Samples for Approval.
 8. Schedule finish sample submittals for aesthetic approval at least fourteen days before purchase, fabrication, or assembly.
 9. Types of Samples:
 - a. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - b. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

PART 3 - EXECUTION

3.1. SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Technical Specification sections.
 1. Submittals: Shall be electronic files that are posted to the Project Web Site.

- B. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - 1. When required by individual Technical Specification section, submit manufacturer's certificate, in duplicate, indicating that the submitted product meets or exceeds specified requirements.
 - 2. Certificates shall contain the most recent test results on material or product.

3.2. CONTRACTORS REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Engineer.
 - 1. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, technical Specification section title and number, name of reviewer, date of Contractor's approval, and statement certifying the submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.3. ENGINEER'S ACTION

- A. Action Submittals: Engineer will review each submittal, make marks to indicate corrections or revisions required, and provide a formal response. Engineer will indicate one of the following actions:
 - 1. Approved: The Engineer takes no exceptions to the documentation submitted.
 - 2. Approved as Noted: The Contractor is advised that fabrication, manufacturing, purchasing, and/or construction may proceed based on this submittal provided that the work is in compliance with the Contract Documents.
 - 3. Revise and Resubmit: The Contractor is advised that fabrication, manufacturing, purchasing, and/or construction may not proceed based on this submittal. Provide revised submittal based on the comments herein, until such time that "Approved as Noted" or "Approved" is received from the Engineer.
 - 4. Rejected / Resubmit: The Contractor is advised that fabrication, manufacturing, purchasing, and/or construction may not proceed based on this submittal. Provide new submittal which is in compliance with the Contract Documents until such time that "Approved as Noted" or "Approved" is received from the Engineer.
 - 5. Not Reviewed / No Action Taken: Contractor is advised that this submittal has not been reviewed.
 - 6. Not Submitted: Contractor is advised that the Contract Documents require a submittal for this Work. Provide a submittal which is in compliance with the Contract Documents until such time that "Approved as Noted" or "Approved" is received from the Engineer.
 - 7. Color Selection Required: The Contractor is advised that color selections for the entire project, or portion thereof, will be provided after receipt of all color charts and required samples for the Project or for that component, if so noted.
- B. Informational Submittals: Engineer will review each submittal and will return acknowledging receipt.

- C. Partial submittal prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from the Engineer.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents will be returned by the Engineer without action.

END OF SECTION 01 33 00

SECTION 01 35 43

ENVIRONMENTAL PROCEDURES

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes the following:
 - 1. Environmental Protection.
 - 2. Hazardous Materials Abatement.

1.3. RELATED SECTIONS

- A. Section 01 50 00 – “Temporary Facilities and Controls”

1.4. DEFINITIONS

- A. ACM – Asbestos-containing material

1.5. GENERAL REQUIREMENTS

- A. The Contractor shall be responsible for enforcing the environmental protection, safety, and health provisions of these specifications. The Contractor shall comply with the requirements of the Occupational Safety and Health Administration, the West Virginia State Building Code, and other applicable local, state, and federal requirements.
- B. The Contractor is solely responsible for the effect of all environmental, safety, and health plans for this project.

1.6. SUBMITTALS

- A. Environmental Protection Plan: Contractor shall submit a written plan for the environmental protection procedures outlined herein. This plan can be incorporated into the required Safety Plan in Section 01 50 00 “Temporary Facilities and Controls,” as several of these topics overlap in scope. The written plan should include the following elements:

1. Waste disposal
2. Spill containment
3. Erosion and Sediment Control
4. Tree Protection
5. Temporary Controls
 - a. Dust Control
 - b. Noise Control
 - c. Security Control
 - d. Traffic Control
6. Fire Protection

- B. Hazardous Materials Abatement Plan: In the event that hazardous materials are uncovered during the course of construction, the Contractor shall immediately submit a written plan for abatement of such hazardous materials. This plan should include methods for identifying hazardous materials, methods for properly abating or removing, and methods for ensuring it is safe to resume working in and around hazardous materials. The plan should also include a hazards communication plan in accordance with local, state, and federal requirements. The plan should also take into consideration the potential for hazardous materials to have contaminated adjacent building materials that may require additional testing and subsequent abatement.

1.7. ENVIRONMENTAL PROTECTION

- A. Waste Disposal: The Contractor shall be responsible for the proper disposal of all solid, liquid, and gaseous contaminants in accordance with all federal, state, and local laws and regulations.
- B. Spill Containment: The Contractor shall be responsible for providing an acceptable means of spill containment for all fuel and hazardous liquids stored at the site. The method of spill containment shall be designed such that accidental discharge of the liquid shall be contained before entering any drains connected to sewers.
- C. Erosion and Sediment Control: The Contractor shall be responsible for protecting all storm water catch basins, storm water drain inlets, and other storm water management apparatuses from excessive increases in peak runoff or from runoff containing construction debris, dust, or dirt.
1. Contractor shall be fully responsible for inspecting, restoring, and cleaning such apparatuses should protection measures fail or be insufficient.
- D. Tree Protection: The Contractor shall be responsible for the protection of trees in and around the Contractor laydown areas, including tree root systems.
1. See Section 01 50 00 “Temporary Facilities and Controls” for requirements on tree protection.
- E. Temporary Controls: See Section 01 50 00 “Temporary Facilities and Controls” for requirements for the following temporary controls:
1. Dust Control
 2. Noise Control

3. Security Control
4. Traffic Control
5. Vibration Control

1.8. FIRE PROTECTION

- A. Refer to Section 01 50 00 “Temporary Facilities and Controls.”

1.9. HAZARDOUS MATERIALS

- A. Copies of material safety data sheets (MSDS) for all hazardous chemicals used in the Work shall be kept at the site and shall be available for the Engineer’s inspection.
 1. In the event it is not practical to maintain MSDS information at the site (for example, if all tools and equipment are removed from the site after each work shift), then the Contractor shall have the MSDS information readily available.
- B. The Contractor is responsible for training all employees in the safe use of hazardous chemicals.
- C. All hazardous materials created by the Work shall be disposed of by the Contractor off site in accordance with all applicable regulations.

1.10. ASBESTOS

- A. The Contractor shall not use asbestos-containing materials in the work, either as consumable materials or materials incorporated into the Work.
- B. There is a possibility that asbestos-containing materials are present within the existing concrete stair slab or in the waterproofing membrane. The concrete stair slab and waterproofing membrane shall be tested for presence of ACM.
 1. Immediately notify the GSD and the Engineer of the results of the ACM testing.
- C. Immediately notify the GSD and the Engineer if locations containing asbestos are identified.
- D. Should locations containing asbestos be identified, the Contractor shall follow requirements of the State of West Virginia Department of Health and Human Resources, Bureau for Public Health and Office of Environmental Health Services.
 - a. Comply with all required notifications and procedures for abatement, demolition, or renovation of projects containing asbestos.
- E. In the event that abatement of asbestos containing material is necessary, abatement work shall be performed in accordance with all local, state, and federal requirements, to include Occupational Safety and Health Administration (OSHA) requirements. Regulation of asbestos exposure and removal of materials containing asbestos is specifically outlined in OSHA Standard 29 CFR 1910.1001 and 1926.1101.

1. Execution of Work shall be considered “Class I Asbestos Work” in accordance with OSHA Standard 29 CFR 1926.1101 which involves the removal of thermal system insulation, surfacing asbestos containing material, and presumed asbestos containing materials.
2. A competent person who is specifically trained from a training course which meets the criteria of the Environmental Protection Agency’s (EPA) Model Accreditation Plan (40 CFR 763) must supervise the work relating to the asbestos.
3. General Requirements:
 - a. Execution of the work shall be within regulated areas:
 - 1) Critical barriers shall be placed over all the openings to the regulated areas. Additional methods shall be used to prevent the migration of airborne asbestos from regulated areas.
 - 2) All objects within regulated areas are to be covered with an impermeable drop cloth or plastic sheeting which is secured by duct tape or an equivalent.
 - 3) Ventilate the regulated area as required.
 - b. Verify all HVAC systems are isolated in the regulated area by sealing with a double layer of 6 mil plastic (or equivalent).
 - c. Impermeable drop cloths shall be placed on surfaces below removal activity.
4. Control Methods for removal: Contractor to execute a control method for removal of asbestos containing materials in accordance with local, state, and federal regulations.

1.11. LEAD ABATEMENT

- A. The Contractor shall not use any materials containing harmful levels of lead, either as consumable materials or materials incorporated into the Work.
- B. Lead-Based Paint: In the event the Contractor encounters paint that may contain lead, the Contractor shall perform testing to determine if the levels of lead exceed the limits that are harmful.
 1. If harmful levels of lead are found in the existing elements and is disturbed for the work, the lead shall be removed prior to any other work being performed in this area. The Contractor shall coordinate removal and disposal of lead materials with the GSD following the approved safety plan procedures. Do not proceed with any demolition until the GSD has given notice that proceeding with demolition work is permitted.
 2. The paint on the existing steel beams has not been tested and shall be assumed to contain lead until testing is conducted. Contractor shall test for the presence of lead on all painted existing original members.
- C. Contractor to follow requirements of the State of West Virginia Department of Health and Human Resources, Bureau for Public Health, and Office of Environmental Health Services.
 1. Comply with all required notifications and procedures for abatement, demolition, or renovation of projects containing lead.

1.12. MOLD REMEDIATION

- A. General: If mold is found in the existing elements and is disturbed for the work, the mold shall be removed prior to any other work being performed in this area. The Contractor shall coordinate removal and disposal of mold with the GSD following the approved safety plan procedures. Do not proceed with any demolition until the GSD has given notice that proceeding with demolition work is permitted.
- B. General Requirements:
 - 1. Follow OSHA and ANSI/IICRI S520 procedures for mold remediation.
 - 2. Small isolated areas (10 sq. ft. or less) and mid-sized isolated areas (10 to 30 sq. ft.):
 - a. Work area should be unoccupied.
 - b. Use dust suppression methods prior to remediation.
 - c. Clean and remove materials that are mold damaged and seal in plastic bags.
 - 3. Large isolated areas (30 to 100 sq. ft.):
 - a. Develop a remediation plan.
 - b. Consult with environmental health and safety professionals prior to remediation.
 - c. Work areas and areas adjacent should be unoccupied.
 - d. Contain dust and debris by covering surfaces in work area and adjacent areas.
 - e. Seal ventilation ducts.
 - f. Use dust suppression methods prior to remediation.
 - g. Clean and remove materials that are mold damaged and seal in plastic bags.
 - h. Work and surrounding areas should be HEPA vacuumed and cleaned.

PART 2 - PRODUCTS
NOT USED.

PART 3 - EXECUTION
NOT USED.

END OF SECTION 01 35 43

SECTION 01 40 00

QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017) to include State of West Virginia revisions, all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This Section includes administrative and procedural general requirements for quality requirements and quality control, to include the following:
 - 1. General Quality Control
 - 2. GSD Responsibilities
 - 3. Contractor Responsibilities
 - 4. Testing Agency Responsibilities
 - 5. Execution
 - a. Workmanship
 - b. Control of Installation
 - c. Tolerances
 - d. Testing and Inspections
 - e. Rejection of Work
 - f. Manufacturer's Field Services
 - g. Repair and Protection
- B. This Section does not itemize the various quality assurance and/or quality control testing, inspections, and related activities required by individual Specification Sections. Individual Specification Sections should be referenced for the individual quality assurance and quality control requirements.
- C. This Section does not cover administrative and procedural requirements of the Contractor related to the Engineer's Construction Administration Site Visits. Such requirement are covered in Section 01 31 00 "Project Management & Coordination."

1.3. RELATED SECTIONS

- A. Section 01 31 00 – "Project Management and Coordination"
- B. Section 01 32 13 – "Scheduling of Work"

- C. All Technical Specifications Sections.

1.4. REFERENCES

- A. ASTM E329-21 “Standard Specification for Agencies Engaged in Construction Inspections, Special Inspection, or Testing Materials Used in Construction”

1.5. DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Engineer.
- C. Preconstruction Testing: Tests and inspections that are performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.
- D. Product Testing: Tests and inspections that are performed by a Nationally Recognized Testing Laboratory (NRTL), a National Voluntary Laboratory Accreditation Program (NVLAP), or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with industry standards.
- E. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- F. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Using a term such as "carpentry" does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to tradespeople of the corresponding generic name.
- G. Experienced: When used with an entity, "experienced" means having successfully completed a minimum of three (3) previous projects, unless otherwise indicated, similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.
- H. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.
- I. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

1.6. GENERAL QUALITY CONTROL

- A. Quality control services include inspections, tests and procedures, and related actions including reports performed by independent agencies, governing authorities, and the Contractor during and after execution of the Work.
 - 1. Quality Control activities do not include Contract enforcement activities performed by the Engineer.
- B. Inspection and testing services are required to verify compliance with requirements specified or indicated. These services do not relieve the Contractor of responsibility for compliance with Contract Document requirements or of quality assurance measures required for successful execution of the work.
- C. Requirements of this Section relate to fabrication and installation procedures.
 - 1. Specific quality control requirements for individual construction activities are specified in the Sections that specify those activities. Those requirements, including inspections and tests, cover production of standard products as well as customized fabrication and installation procedures.
 - 2. Inspections, tests, and related actions specified are not intended to limit the Contractor's quality control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements of the Contractor by the Engineer, the GSD, or authorities having jurisdiction, shall not be limited by the provisions of this Section.

1.7. GSD RESPONSIBILITIES

- A. Where quality-control services are indicated as GSD's or Owner's responsibility, the GSD will engage a qualified testing agency to perform these services.
 - 1. GSD will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
 - 2. The Contractor shall coordinate with the GSD for scheduling and facilitating such testing and inspection services.
 - 3. Payment for these services will be made by the GSD.
 - 4. Costs for retesting and re-inspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted accordingly by a deductive Change Order.
- B. Special Tests and Inspections: GSD will engage a qualified testing agency or special inspector to conduct special tests and inspections specified in individual Specification Sections and as required by the 2015 International Building Code and authorities having jurisdiction as the responsibility of GSD, and as follows:
 - 1. Submitting a certified written report of each test, inspection, and similar quality-control service to Engineer and GSD with copy to Contractor and to authorities having jurisdiction.

2. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
3. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
4. Retesting and re-inspecting corrected work.

1.8. CONTRACTOR RESPONSIBILITIES

- A. General: Contractor shall provide general oversight of construction activities to ensure the quality of the work being executed is in accordance with the specification requirements, industry standards, and manufacturer requirements for a given task as well as in a manner that is safe. Strict quality guidelines shall be set at the beginning of each task, and the field project manager and superintendent for the Contractor shall ensure this level of quality is maintained for the duration of the task.
1. The requirements for testing and inspections included in the individual specification sections shall in no way replace the general quality oversight provided in the field by the Contractor.
- B. Testing and Inspections:
1. Where quality-control testing is indicated as Contractor's responsibility, the Contractor shall employ and pay an independent qualified testing agency to perform these quality-control services.
 - a. Contractor shall submit a certified written report, in duplicate, of each quality-control service to the GSD and the Engineer. Contractor shall submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
 - b. Contractor shall not employ same entity engaged by GSD, unless agreed to in writing by GSD.
 - 1) The GSD reserves the right to reject the testing agency engaged by the Contractor.
 2. Tests and inspections not explicitly assigned to GSD are the Contractor's responsibility. Unless otherwise indicated, the Contractor shall provide quality-control services specified and required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 3. Testing and inspecting requested by Contractor and not required by the Contract Documents are the Contractor's responsibility.
- C. Coordination: Regardless of the original assignment of responsibility for inspection, testing or similar services, the Contractor shall coordinate, with each agency engaged to perform inspections, tests and similar services, the sequence of activities to accommodate required services with a minimum delay. In addition, the Contractor shall coordinate with each agency's activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests. The Contractor is responsible for scheduling times for inspections, tests, taking samples and similar activities.

1. Contractor shall directly coordinate and schedule tests and inspections by agencies engaged directly by the Contractor.
 2. Contractor is additionally responsible for coordinating and scheduling through the GSD when tests and inspections are required by an agency engaged by the GSD.
 - a. Contractor shall not contact or directly schedule testing and inspection services conducted by an agency engaged by the GSD, unless authorized by the GSD to do such.
 - b. Notify GSD and the Engineer at least 48 hours in advance of time when Work that requires testing or inspecting will be performed.
- D. **Manufacturer's Field Services:** Where indicated, the Contractor shall engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Contractor shall report the results of such services in writing to both the GSD and the Engineer.
- E. **Failure and Re-testing:** Regardless of the original assignment of responsibility for inspection, testing, or similar services, the Contractor shall be responsible for employing and paying an independent agency for re-testing where results of required inspections, tests, or similar services prove unsatisfactory and do not indicate compliance with Contract Document requirements. Removal and replacement Work necessitated by such noncompliance shall be at the Contractor's expense. When inspections or tests cannot be performed after proper notification and at the fault of the Contractor, rescheduling costs will be the Contractor's responsibility.
- F. **Protection and Repair:** Regardless of the original assignment of responsibility for inspection, testing or similar services, repair and protection are the Contractor's responsibility. Upon completion of inspection, testing, sample-taking and similar services, repair damaged construction and restore substrates and finishes to eliminate deficiencies, including deficiencies in visual qualities of exposed finishes. Protect construction exposed by or for quality control service activities and protect repaired construction.
- G. **Associated Services:** Contractor shall cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested, regardless of whom the agency is employed by. Contractor shall notify agency sufficiently in advance of operations to permit assignment of personnel. Contractor shall provide the following:
1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 4. Facilities for storage and field curing of test samples.
 5. Delivery of samples to testing agencies.
 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 7. Security and protection for samples and for testing and inspecting equipment at Project site.

1.9. TESTING AGENCY RESPONSIBILITIES

- A. Testing Agency Qualifications: All testing service agencies, engaging in inspection and testing services, including independent testing laboratories, shall be prequalified as complying with “Recommended Requirements for Independent Laboratory Qualification” by the American Council of Independent Laboratories, and shall specialize in the types of inspections and tests to be performed. Each service agency engaged on the Project shall be authorized to operate in the State of West Virginia.
1. Additionally, each laboratory shall:
 - a. Comply with the requirements of ASTM E329.
 - b. Maintain full-time Professional Engineer licensed in the State of West Virginia on staff to review, supervise services and sign and stamp reports as necessary.
 - c. Calibrate testing equipment at reasonable intervals with devices of accuracy traceable to both the National Institute of Standards and Technology (NIST) or accepted values of natural physical constants.
- B. Testing Agency Responsibilities: Cooperate with GSD, Engineer, and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify GSD, Engineer, and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 6. Do not perform any duties of Contractor.

1.10. SUBMITTALS

- A. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents. Submit schedule within 30 days of date established for commencement of the Work.
1. Distribution: Distribute schedule to GSD, Engineer, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.
 2. Coordinate with Contractor's Construction Schedule per Section 01 32 13 “Scheduling of Work.”
 3. Prepare in tabular form and include the following:
 - a. Specification Section number and title.
 - b. Description of test and inspection.
 - c. Identification of applicable standards.
 - d. Identification of test and inspection methods.
 - e. Number of tests and inspections required.

- f. Time schedule or time span for tests and inspections.
 - g. Entity responsible for performing tests and inspections.
 - h. Requirements for obtaining samples.
 - i. Unique characteristics of each quality-control service.
- B. Reports: Prepare and submit certified written reports from the independent agency for each quality control testing or inspection activity required by individual Specification Sections. Reports should be submitted within one (1) week of the test date to the GSD and the Engineer. Reports shall include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.
 - 9. Test and inspection results and an interpretation of test results.
 - 10. Record of temperature, relative humidity, and weather conditions at time of sample taking and testing and inspecting.
 - 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 - 12. Name and signature of laboratory inspector.
 - 13. Recommendations on retesting and re-inspecting.
- C. Record of Tests and Inspections: Maintain a record of tests and inspections to be submitted at the completion of the project. Changes and modifications should be updated in the log as they occur. Access to the testing and inspections log should be available to GSD and Engineer for reference during normal working hours. Record to include the following:
 - 1. Date test or inspection was conducted.
 - 2. Identification of testing agency conducting test or inspection.
 - 3. Description of the Work tested or inspected.
 - 4. Results of test or inspection, and corrective work required, if any.
 - 5. Date test or inspection results were transmitted to Engineer and GSD.

PART 2 - PRODUCTS

NOT USED.

PART 3 - EXECUTION

3.1. WORKMANSHIP

- A. Contractor shall comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
- B. Contractor shall perform work by persons qualified to produce workmanship of specified

quality.

3.2. CONTROL OF INSTALLATION

- A. Contractor shall monitor and coordinate quality control over Suppliers, Subcontractors, Manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Contractor shall ensure that all Work complies with Manufacturers' instructions, including each step in sequence, unless other provisions have been approved in writing by the Engineer.
 - 1. Should Manufacturers' instructions conflict with Contract Documents, Contractor shall request clarification from Engineer before proceeding.
- C. Contractor shall ensure that all Work complies with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- D. Contractor shall verify that field measurements and conditions are as indicated on Shop Drawings or as instructed by the Manufacturer.

3.3. TOLERANCES

- A. Contractor shall monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Contractor shall ensure the Work complies with Manufacturers' tolerances. Should Manufacturers' tolerances conflict with Contract Documents, Contractor shall request clarification from Engineer before proceeding.
- C. Adjust products and materials to appropriate dimensions as dictated by existing conditions, manufacturer's requirements, specified tolerances, and as shown in the Drawings. Position and verify accurate sizing before securing products in place.

3.4. TESTING AND INSPECTIONS

- A. Testing Agency Duties:
 - 1. Provide qualified personnel at site. Cooperate with Engineer and Contractor in performance of services.
 - 2. Perform specified sampling and testing of products in accordance with specified standards.
 - 3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
 - 4. Promptly notify Engineer and Contractor of observed irregularities or non-conformance of Work or products.
 - 5. Perform additional tests and inspections required by Engineer, GSD or Contractor.
 - 6. Submit reports of all tests/inspections specified.
- B. Limits on Testing/Inspection Agency Authority:

1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency may not approve or accept any portion of the Work.
3. Agency may not assume any duties of Contractor.
4. Agency has no authority to stop the Work.

C. Contractor Responsibilities:

1. Deliver to agency at designated location and provide adequate samples of materials proposed to be used which require testing, along with proposed mix designs.
2. Cooperate with laboratory personnel and provide access to the Work and to manufacturers' facilities.
3. Provide incidental labor and facilities:
 - a. To provide safe access to Work to be tested/inspected.
 - b. To obtain and handle samples at the site or at source of products to be tested/inspected.
 - c. To facilitate tests/inspections.
 - d. To provide storage and curing of test samples.
4. Arrange with GSD's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
 - a. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Engineer. Payment for re-testing will be charged to the Contractor by utilizing a Deductive Change Order.

3.5. REJECTION OF WORK

- A. Refer to the General Conditions for additional requirements regarding the rejection of Work.
- B. The Engineer and the GSD may reject installed work if it does not comply with the Contract Documents.
- C. The Contractor shall replace Work or portions of the Work not conforming to specified requirements at no additional cost to the GSD.
 1. Any Work which may or may not comply with the Contract Requirements but must be removed in order to correct the deficient or rejected work must be removed and replaced at no additional cost to the GSD.
- D. If, in the opinion of Engineer, it is not practical to remove and replace the Work, Engineer will direct an appropriate remedy or adjust payment.

3.6. MANUFACTURERS' FIELD SERVICES

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, test, adjust, and to initiate instructions when

necessary.

- B. Report, in writing, observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.
- C. Manufacturer Field Service representative shall render directions or opinions regarding their products or materials only. However, by nature they will not be as familiar with the overall project scope, background, or requirements. Opinions rendered by Manufacturer Field Service representative shall not overrule the requirements contained in the Contract Documents. The Manufacturers' Field Service representative shall not have the authority to overturn the direction or opinion rendered by the Engineer or the GSD unless written approval is obtained from the Engineer and the GSD.
 - 1. Should manufacturer's field services representative provide directions or opinions conflicting with contract documents, Contractor shall request clarification from Engineer before proceeding.

3.7. REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
- B. Protect construction exposed by or for quality-control service activities.
 - 1. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

3.8. ENGINEER AND GSD INSPECTION

- A. If the Engineer or GSD determines that the Work does not meet construction standards or requirements of the Contract Documents, then that portion of the Work shall cease and be redone to meet the Engineer's and GSD's approval at no additional cost.

END OF SECTION 01 40 00

SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes:
 - 1. Use Charges
 - a. Water
 - b. Electric Power
 - 2. Site Control
 - a. Security Control
 - b. Traffic Control
 - c. Access Roads
 - d. Temporary Access Drives
 - 3. Temporary controls
 - a. Dust Control
 - b. Noise Control
 - c. Vibration Control
 - d. Fire Protection Control
 - 4. Temporary Materials and Equipment
 - 5. Temporary Construction Field Offices
 - 6. Temporary Storage and Fabrication Areas
 - 7. Temporary Sanitary Facilities
 - 8. Temporary Access Drive Materials
 - 9. Directional Signage
 - 10. Temporary Installation
 - 11. Protection of Work
 - 12. Tree protection
 - 13. Cleaning, Removal and Restoration

1.3. RELATED SECTIONS

- A. Section 01 14 00 – “Work Restrictions and Use of Site”
- B. Section 01 31 00 – “Project Management and Coordination”
- C. Section 01 56 00 – “Temporary Barriers and Enclosures”

1.4. DEFINITIONS

- A. Tree Protection Zone: Area surrounding individual trees or groups of trees to remain protected during construction and defined by the drip line of individual trees or the perimeter drip line of groups of trees, or lesser perimeters otherwise indicated.

1.5. REFERENCES

- A. ADA 2010: “ADA Standards for Accessible Design”
- B. ICC A117.1-18: “Accessible and Usable Buildings and Facilities”
- C. ASTM F567-14a: “Standard Practice for Installation of Chain Link Fence”

1.6. QUALITY ASSURANCE

- A. Regulations: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction, including, but not limited to:
 - 1. General and Supplemental General Conditions
 - 2. West Virginia State Building Code
 - 3. Health and safety regulations
 - 4. Capitol Police, Fire Department, and Rescue Squad rules
- B. Inspections: Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits.

1.7. SUBMITTALS

- A. Safety Plan: Contractor must develop safety plan for the duration of the construction.
 - 1. Safety Plan should highlight specific high-risk activities and detail the safety considerations, identify the potential hazard, and describe implementation measures to address hazards.
 - 2. Safety Plan should provide site specific information for responding to an emergency when working from heights with limited access.
 - a. Ensure that appropriate first responders have been notified of scope of project and verify the ability to access all work areas in the event a rescue is required.

3. Safety Plan should identify and provide contact information for designated safety personnel and alternates in case of primary personnel absence.
 4. Safety Plan should identify typical site safety requirements, to include appropriate Personal Protection Equipment (PPE) for all tasks to be completed as part of the Scope of Work.
 5. Safety Plan shall contain a narrative describing measures for fall protection where necessary and safety provisions for the Work.
 6. Safety Plan shall follow guidelines of “Jobsite Safety Handbook” for the Department of Administration and the General Services Division.
 7. Contractor is responsible for complying with all safety, health, and sanitation laws.
 8. Contractor shall submit a copy to the GSD Project Manager prior to starting work.
 9. Contractor shall notify GSD when outside safety agencies including Fire Marshall and OSHA are on site.
- B. Site Use Plan: Contractor shall submit a detailed site use plan. Plan shall clearly convey the intended modifications, if any, to the existing site protection measures and shall also include new measures required for the execution of the Work to include locations, extents, materials, and execution of the following items:
1. Temporary tree protection.
 2. Temporary access drives.
 3. Temporary barriers and construction fencing.
 4. Temporary protection for flooring and interior finishes.
 5. Temporary weather enclosure and access support structure.
 6. Pedestrian Protection/Access.
 7. Erosion and sediment protection.
 8. Contractor laydown area.
 9. Temporary Signage Locations.
 10. Site Access including identifying what equipment or methods will be used to access all areas of work.
 11. Plan shall identify routes for contractor access and material transport around the site and through the building, if necessary.
 12. Plan shall identify paths of ingress and egress and the accessible routes. Plan shall identify any impacts on the pedestrian access routes. The Contractor shall provide signage notifying pedestrians of any closures and for detour routes.
- C. Temporary Controls Plan: Contractor shall submit a narrative outlining means and methods for implementing temporary control measures, to include but not limited to, the following:
1. Dust and debris control measures.
 2. Noise control measures.
 3. Security control measures.
 4. Traffic control measures
 5. Vibration control measures.
 6. Methods for coordination of interruptions to utility services, if necessary. This shall include coordination of shutoff, capping, and continuation of utility services.

1.8. USE CHARGES

- A. General: Cost or use charges for temporary facilities are not chargeable to the GSD or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and

facilities without cost, including, but not limited to, the following:

1. GSD's construction forces.
 2. Engineer.
 3. Testing agencies.
 4. Personnel of authorities having jurisdiction.
- B. Sewer Service: Sewer service use charges for sewer usage by all entities paid by GSD.
- C. Water Service: Water service use charges for water used by all entities paid by GSD.
1. The GSD will provide the Contractor with existing source(s) of water for construction use. The Contractor is responsible for coordinating work related to temporary water requirements and protecting the building within the limits of available water resources, without compromising the GSD's need for water.
 2. The Contractor is responsible for water conservation and reasonable construction use when utilizing temporary or permanent water supply systems. Should the GSD determine an unreasonable or excessive use of water, the Contractor shall pay for water usage and related sewer costs above the reasonable amount as determined by the GSD. Should the Contractor's use of water required for Work exceed the limits of available water to the building, the Contractor shall reduce water consumed and/or pay for such modifications as required to eliminate compromising the GSD's system ability to meet water requirements for existing services.
 3. Contractor is responsible for connecting to the service point or system designated by the GSD and for furnishing, installing, and removing all temporary service required for water during construction, including protection of potable water system.
 4. Contractor shall provide extended branch piping with outlets located so water is available by hoses with threaded connections. Provide temporary pipe insulation to prevent freezing.
 5. Contractor shall remove all temporary piping before completion of the Project.
- D. Electric Power Service: Electric power from GSD's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. Contractor is fully responsible for the costs and safety requirements of such connections and extensions.
1. The existing electrical service will remain active for the duration of the project. The GSD will provide the Contractor with electricity for construction use.
 2. The Contractor is responsible for coordinating work related to electrical requirements and protecting the building within the limits of available electrical power, without compromising the GSD's need for electricity.
 3. The Contractor is responsible for energy conservation and reasonable construction use of electrical power. The Contractor shall pay for additional power consumption above the reasonable amount as determined by the GSD if the GSD determines that the Contractor has used an unreasonable or excessive amount of electricity. Should the Contractor's use of additional electricity required for Work exceed the limits of available resources in the building, the Contractor shall reduce electricity consumed and/or pay for such modifications as required to eliminate compromising the GSD's system.
 4. Contractor shall provide branch distribution system from temporary power source with distribution boxes and outlets located so that power and lighting are available throughout active work areas.
 5. Permanent receptacles may be utilized during construction.

6. Existing receptacles may be utilized as source of temporary electric service for the repair work if approved by the GSD.
 - a. Contractor to verify electrical connection intended for use is capable of servicing electrical loads required by construction equipment. If not, Contractor shall be responsible for temporary power measures required for execution of the work.
7. Contractor shall replace receptacle plates and wiring devices damaged during construction.
8. Contractor shall provide lighting to ensure safe construction operations and to allow proper finishing operations.
9. Permanent lighting system may be utilized during construction if approved by the GSD.
10. All temporary wiring shall be removed before completion of project.

1.9. SITE CONTROL

- A. Security Control: Contractor is responsible for conducting operations in a manner to avoid risk of loss, theft, or damage by vandalism.
 1. Contractor shall implement a check-in/check-out procedure to maintain a daily record of workers on site. All workers must receive approval through the background check process in accordance with Section 01 14 00 “Work Restrictions and Use of Site” prior to accessing the site.
 - a. The Contractor’s workmen are not permitted to enter secure areas of the Capitol Building without escorts or prior approval from the GSD.
 2. Provide security and facilities to protect Work and existing premises from unauthorized entry, vandalism, and theft.
 3. The Contractor shall lock all toolboxes and secure moveable equipment with chains or otherwise to prevent theft.
 4. All hazardous materials shall be kept in a secured area to prevent access by the public.
- B. Traffic Control: Load and unload trucks only in areas approved by the GSD.
 1. Trucks leaving the site with loose debris shall be loaded, covered, and protected in a manner that will prevent dust emissions or debris falling from the truck. Contractor must comply with local regulations for covering trucks for dust control.
 2. Soils tracked onto adjoining Access drives by truck will be cleaned at the end of each business day.
 3. Limit deliveries to the Project Site to hours provided in Section 01 14 00 “Work Restrictions & Use of Site.”
- C. Access Drives
 1. Vehicular access to the Project Site shall be limited to the roads and pedestrian walks indicated in the Drawings. Vehicular use of the pedestrian walks shall not occur during periods of high pedestrian usage, such as opening and closing of business and immediately preceding and following lunch hour.
 - a. Provide flaggers and spotters when vehicles use the pedestrian walks.

- b. Vehicular speed shall not exceed normal walking pace.
 - 2. Keep all public streets, drives, and walks adjacent to site and haul routes clean and free of dirt, debris, and litter caused by construction operations. Any dirt, debris, and litter caused by construction operations must be removed immediately.
- D. Temporary Access Drives
- 1. All vehicular and equipment traffic within the laydown area shall be limited to paved areas and temporary access drives.
 - 2. Contractor shall develop and submit for approval a plan for the layout of all temporary access drives within the laydown area. The layout shall be developed to provide vehicle and equipment access to all materials stored within the laydown area.
 - 3. The temporary access drives shall extend over all turf areas that may be subject to traffic from vehicles or equipment and shall include any necessary provisions for turns or changes in direction.
 - 4. Temporary access drives shall not cover or impede access to manholes and other utility access points within the laydown area.
 - 5. Temporary Access drives shall allow for curb protection, protecting existing tree roots, and silt fence to prevent spread of dirt and debris.
 - 6. Temporary access drives shall be installed within the laydown area in accordance with the submitted and approved laydown area plan.
 - 7. The entire temporary access drive system shall be fully installed and approved by the GSD and Engineer prior to beginning the work. Temporary access drive components shall not be moved from one location to another during the project.
- E. Temporary Parking
- 1. Temporary parking areas to accommodate construction personnel are limited. Arrangements will be made during pre-construction meeting for location and quantity. Parking is permitted only in the area designated by the GSD.
 - 2. Contractor and delivery trucks can only park within predetermined areas as agreed upon during the preconstruction meeting.
 - 3. Parking violators are subject to towing and fines at their own expense.

1.10. TEMPORARY CONTROLS

- A. Dust Control: The Contractor shall be responsible for controlling and containing dust and protecting the Capitol Building Complex, surrounding areas, grounds, and occupants from dust migration.
- 1. All chutes for refuse, trash storage or transportation containers, and the like shall be covered or contained to prevent the dissemination of dust.
 - 2. Contractor shall prevent all dust, sand, water, or other foreign elements generated by the work from entering occupied spaces or other areas outside the work areas by taking appropriate precautions. Such precautions shall include, but not be limited to, covering all vents, louvers, or openings, and sealing open joints or seams in adjacent walls or windows. If openings cannot be sealed for special reasons or dust cannot be contained or eliminated at the source, Contractor shall not proceed until receiving instructions from the Engineer.

3. Provide dust-proof enclosures for protection around the work areas. Use wet cutting methods or equipment with vacuum assisted dust filters where possible to reduce dust generated by the Work.
- B. Noise Control: Contractor is responsible for complying with all local noise control regulations and keeping the noise on the interior of the State Capitol Building to a minimum so as to limit disruptions. Contractor shall coordinate noise-generating activities with GSD to help avoid work stoppages due to excessive noise.
1. Execute Work as quietly as practicable to avoid unnecessary disturbances to occupants of adjacent premises.
 2. High-level noise operations must be performed in accordance with local regulations and must be approved by GSD prior to proceeding.
 3. Loud noise which causes disturbance to surrounding areas must be controlled and coordinated in advance with the GSD.
 4. Hearing protection must be provided for workers and all visitors to the Project Site in accordance with OSHA requirements.
- C. Vibration Control
1. Vibration must be limited during the execution of the work. Due to the historic nature of the building, excessive vibration could disturb existing building components and lead to failures.
 2. Vibrations which cause disturbance to surrounding areas must be controlled and coordinated in advance with the GSD.
- D. Fire Protection Control
1. Contractor shall maintain clear access to all sprinkler locations throughout the interior of the building. Installation of temporary controls, barriers, shoring, or scaffolding shall in no way impede the ability of the sprinkler system to effectively provide fire protection to the adjacent areas.
 2. Contractor shall provide and maintain access to fire hydrants and keep all hydrants free of obstructions.
 3. Contractor shall provide and maintain adequate fire protection in the form of fire extinguisher or other effective means of extinguishing fire, ready for instant use, distributed around the project and in and about temporary inflammable structures during construction of work.
 - a. A fire extinguisher shall be located in each storage and construction area.
 4. Existing Fire Hose Connections: The connection shall be accessible at all times by Fire Department personnel. Materials and debris shall not be stored in front of the connection, thus preventing access. The Contractor shall coordinate access procedures with the Fire Marshall.
 5. Gasoline and other flammable liquids shall be stored and dispensed from UL listed safety containers in conformance with National Board of Fire Underwriters' recommendations. Such materials should not be brought into the building unless written consent is provided by the GSD. Materials must be stored in the Contractor Laydown Area outside of the building.

6. Torch-cutting and welding operations performed by Contractor or Subcontractors shall have approval of GSD before such work is started, and chemical extinguisher shall be available at location where such work is in progress.
 - a. Hot work permit is required prior to execution of any torch-cutting or welding operations.
7. Open fires will not be permitted in or about the premises.
8. All flammable materials are to be stored in a safe manner away from any heat source and in accordance with all local, state, and federal regulations.

PART 2 - PRODUCTS

2.1. TEMPORARY MATERIALS AND EQUIPMENT

A. General:

1. Temporary materials may be new or used, but must be adequate in capacity for required usage, must not create unsafe conditions, and must not violate requirements of applicable codes and standards.
2. Wood products used for temporary materials in proximity to structure shall be fire retardant materials.
3. Due to the prominence of the building and project site, all temporary materials must be aesthetically pleasing and free from defects that would detract from the significance and aesthetics of the building.

B. Fire Extinguishers

1. Provide types, sizes, numbers, and locations as would be reasonably effective in extinguishing fires during early stages, by personnel at project site. Provide Type-A extinguisher at locations of low potential for either electrical or grease-oil flammable liquid fires; provide Type-ABC dry chemical extinguisher at other locations; comply with recommendations of NFPA No. 10. Post local fire department call number on each telephone instrument at project site.
 - a. Keep fire extinguisher in operating condition at all times.

2.2. TEMPORARY CONSTRUCTION FIELD OFFICES

- A. General: Existing facilities shall not be used for temporary field offices or for storage. The Contractor shall provide temporary field offices at time of project mobilization of sufficient size to accommodate needs of construction personnel, as required to support contractor needs to execute the work.
- B. GSD to provide meeting space to facilitate project meetings in accordance with Section 01 31 00, "Project Management and Coordination."

2.3. TEMPORARY SANITARY FACILITIES

- A. Contractor shall provide and maintain temporary sanitary facilities and enclosures within construction barrier. The toilets shall be serviced as needed but not less frequently than once every two weeks.

2.4. TEMPORARY DIRECTIONAL SIGNAGE

- A. Directional signage to be installed as required to alert pedestrians to alternate egress routes through the building due to construction operations.
 - 1. Directional signs shall comply with Section 703 of the Americans with Disabilities Act (ADA) “Standard for Accessible Design” and the following:
 - a. Characters shall be uppercase and sans serif font.
 - b. Characters and background shall have non-glare finish.
 - c. Signs shall be installed a minimum of 48" above the finished floor.
 - d. Signs shall not encroach into egress paths or fire lanes.

PART 3 - EXECUTION

3.1. TEMPORARY INSTALLATION

- A. Install, maintain, and operate temporary utilities and services to ensure continuous operation. Modify and extend systems as Work progresses.
- B. Access Provisions: Contractor shall provide ramps, stairs, ladders, and similar temporary access elements as reasonably required to perform the work and facilitate its inspection during installation. Comply with reasonable requests of governing authorities performing inspections.

3.2. PROTECTION, GENERAL

- A. Protect persons, motor vehicles, surrounding surfaces of building, grounds, landscaping, and surrounding buildings from harm resulting from execution of the work.
 - 1. Use only proven protection methods, appropriate to each area and surface being protected.
 - 2. Provide temporary barricades, barriers, and directional signage to exclude the public from areas where work is being performed.
 - 3. Erect temporary barriers to form and maintain fire-egress routes.
 - 4. Erect temporary protective covers over walkways and at points of pedestrian and vehicular entrance and exit that must remain in service during execution of the work, if applicable.
 - 5. Contain dust and debris generated by the execution of the work and prevent it from reaching the public or adjacent surfaces.
 - 6. Provide shoring, bracing, and supports as necessary. Do not overload structural elements.
 - 7. Protect floors and other surfaces along hauling routes from damage, wear, and staining.
 - 8. Provide supplemental sound-control treatment to isolate removal and dismantling work from other areas of the building.

B. Protection of Historic Materials:

1. Protect existing historic materials with temporary protections and construction. Do not remove existing materials unless specifically indicated for removal.
2. Do not attach temporary protection to historic surfaces.

C. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.

D. Utility and Communications Services:

1. Notify GSD, Engineer, authorities having jurisdiction, and entities owning or controlling wires, conduits, pipes, and other services affected by historic treatment work before commencing operations.
2. Disconnect and cap pipes and services as required by authorities having jurisdiction, as required for historic treatment work.
3. Maintain existing services unless otherwise indicated; keep in service and protect against damage during operations. Provide temporary services during interruptions to existing utilities.

3.3. PROTECTION OF ADJACENT WORK

- A. Protect adjacent Work in a manner to prevent damage from construction operations, to include but not limited to defacement, stains, scratches, and wear.
- B. Provide temporary and removable materials for protection of installed adjacent products and to control activity in the immediate Work area to minimize damage.

3.4. PROTECTION FROM FIRE

A. General: Follow fire-prevention plan and the following:

1. Comply with NFPA 241 requirements unless otherwise indicated.
2. Remove and keep area free of combustibles, including rubbish, paper, waste, and chemicals, unless necessary for the immediate work.
 - a. If combustible material cannot be removed, provide fire blankets to cover such materials.
3. Prohibit smoking by all persons within Project work and staging areas.

B. Heat-Generating Equipment and Combustible Materials: Comply with the following procedures while performing work with heat-generating equipment or combustible materials, including welding, torch-cutting, soldering, brazing, removing paint with heat, or other operations where open flames or implements using high heat or combustible solvents and chemicals are anticipated:

1. Use of open-flame equipment is not permitted without written approval from the GSD.
2. As far as practicable, restrict heat-generating equipment to shop areas or outside the building.

3. Do not perform work with heat-generating equipment in or near rooms or in areas where flammable liquids or explosive vapors are present or thought to be present. Use a combustible gas indicator test to ensure that the area is safe.
 4. Use fireproof baffles to prevent flames, sparks, hot gases, or other high-temperature material from reaching surrounding combustible material.
 5. Prevent the spread of sparks and particles of hot metal through open windows, doors, holes, and cracks in floors, walls, ceilings, roofs, and other openings.
 6. Fire Watch: Before working with heat-generating equipment or combustible materials, station personnel to serve as a fire watch at each location where such work is performed. Fire-watch personnel shall have the authority to enforce fire safety. Station fire watch according to NFPA 51B, NFPA 241, and as follows:
 - a. Train each fire watch in the proper operation of fire-control equipment and alarms.
 - b. Prohibit fire-watch personnel from other work that would be a distraction from fire-watch duties.
 - c. Cease work with heat-generating equipment whenever fire-watch personnel are not present.
 - d. Have fire-watch personnel perform final fire-safety inspection each day beginning no sooner than thirty minutes after conclusion of work at each area of Project site to detect hidden or smoldering fires and to ensure that proper fire prevention is maintained.
- C. Fire Extinguishers, Fire Blankets, and Rag Buckets: Contractor shall maintain fire extinguishers, fire blankets, and rag buckets for disposal of rags with combustible liquids. Maintain each as suitable for the type of fire risk in each work area. Ensure that nearby personnel and the fire-watch personnel are trained in fire-extinguisher and blanket use.
- D. Sprinklers: Where sprinkler protection exists and is functional, maintain it without interruption while operations are being performed. If operations are performed close to sprinklers, shield them temporarily with guards.
1. Remove temporary guards at the end of work shifts, whenever operations are paused, and when nearby work is completed.

3.5. PROTECTION DURING APPLICATION OF CHEMICALS

- A. General: If application of chemicals is required during the execution of the work, the following measures should be taken:
1. Protect motor vehicles, surrounding surfaces of building being restored, building site, plants, and surrounding buildings from harm or damage resulting from applications of chemicals and adhesives.
 2. Cover adjacent surfaces with protective materials that are proven to resist chemicals selected for Project unless chemicals being used will not damage adjacent surfaces as indicated in historic treatment program. Use covering materials and masking agents that are waterproof and UV resistant and that will not stain or leave residue on surfaces to which they are applied. Apply protective materials according to manufacturer's written instructions. Do not apply liquid masking agents or adhesives to painted or porous surfaces. When no longer needed, promptly remove protective materials.

3. Do not apply chemicals during winds of sufficient force to spread them to unprotected surfaces.
4. Neutralize alkaline and acid wastes and legally dispose of off Capitol property.
5. Collect and dispose of runoff from chemical operations by legal means and in a manner that prevents soil contamination, soil erosion, undermining of paving and foundations, damage to landscaping, or water penetration into building interior.

3.6. TREE PROTECTION

- A. Temporary Fencing for Tree Protection: Install temporary fencing around tree protection zones and located as indicated or outside tree drip lines to protect trees from construction damage. Maintain temporary fence and remove when construction is complete.
 1. Install chain-link fence according to ASTM F567 and manufacturer's written instructions.
- B. Protect tree root systems from damage caused by runoff or spillage of noxious materials while mixing, placing, and storing construction materials. Protect root systems from ponding, eroding, or excessive wetting caused by dewatering operations.
- C. Exercise care when installing tree protection fencing posts to avoid damage to shallow roots.
- D. Do not store construction materials, debris, or excavated material inside tree protection zones. Do not permit vehicles or foot traffic within tree protection zones; prevent soil compaction over root systems.
- E. Maintain tree protection zones free of weeds and trash.
- F. Tree Repair and Replacement
 1. Immediately and within 30 minutes of damage to a tree, notify by phone the GSD Project Manager. Follow-up within same business day by e-mail to same persons.
 2. Promptly repair trees damaged by construction operations within 24 hours. Treat damaged trunks, limbs, and roots according to GSD's written instructions.
 3. Remove and replace trees indicated to remain that die or are damaged during construction operations that GSD determines are incapable of restoring to normal growth pattern.

3.7. CLEANING, REMOVAL AND RESTORATION

- A. Remove all temporary above grade or buried utilities, equipment, facilities, controls, and materials prior to Substantial Completion inspection.
- B. Repair damage caused by installation or use of temporary work.
- C. Restore existing facilities and equipment used during construction to original condition. Restore permanent facilities and equipment used during construction to their specified condition.

END OF SECTION 01 50 00

Jobsite Safety Handbook

For Contractors

Department of Administration (DOA)

General Services Division (GSD)

218 California Avenue
Charleston, WV

**THIS HANDBOOK IS TO BE POSTED IN A VISIBLE AREA AT ALL CONSTRUCTION
PROJECTS AND/OR CONTRACTOR WORKSITES**

Contractor Contact: _____ Phone #: _____

EMERGENCY CONTACTS:

Project Manager:

Name: _____ Phone #: _____

Emergency Services #: _____

GSD Safety Section:

1900 Kanawha Boulevard East, Bldg 1 Room MB12 Charleston, WV 25305

Jonathan Trout: Work# 304 352-5522 Cell# 304-205-2721

Marsha Bowling Work# 304-352-5523 Cell# 304-951-1410

Revision 4/18/22

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Jobsite Safety Handbook

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JOBSITE SAFETY HANDBOOK

The following is a summary of applicable jobsite safety requirements. This handbook is intended to be used as a guide and in no way reflects all applicable safety requirements. All employees are responsible for ensuring a safe working environment. All hazards must be addressed regardless if they have been addressed in this handbook. All contractors working on GSD projects are required to follow OSHA regulations.

GSD safety and health procedures are available for review 24/7 in the Main Capitol Building basement, MB-12.

1. BUILDING ALARMS

In the event of a fire, sound the alarm and/or notify other building occupants immediately. Contractor personnel shall respond appropriately to all alarms by exiting the building immediately and remaining at least 50 feet from the building to allow for emergency response access.

2. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Workers must use personal protective equipment, such as:

- Hard hats when overhead, falling or flying hazards exist;
- Safety glasses or face shields for welding, cutting, nailing (including pneumatic), or when working with concrete and/or harmful chemicals;
- Proper shoes or boots to lessen slipping hazards and prevent toe crushing and nail punctures;
- Safety belts and/or harness systems for fall protection.

3. HOUSEKEEPING AND ACCESS AROUND SITE

- Keep all walkways and stairways clear of trash/debris and other materials such as tools and supplies to prevent tripping.
- Keep boxes, scrap lumber and other materials picked up and put in a dumpster or trash/debris area to prevent fire and tripping hazards.
- Provide enough light to allow workers to see and to prevent accidents.

4. STAIRS AND LADDERS

- All stairs are to be equipped with standard handrails.
- Keep ladders in good condition and free of defects – Do not use job made ladders.
- Inspect ladders before use for broken rungs or other defects so falls don't happen. Discard defective ladders.
- Secure ladders at the top and brace or tie off at the bottom to prevent them from slipping and causing falls.

5. SCAFFOLDS AND OTHER WORK PLATFORMS

Scaffolding is to be assembled and used according to OSHA regulations.

General scaffolding guidance:

- Provide ladders or stairs to access scaffold and work platforms safely.
- Keep scaffolds and work platforms free of debris. Keep tools and materials as neat as possible on scaffolds and platforms. This will help prevent materials from falling and workers from tripping.
- Erect scaffolds on firm and level foundations.
- Scaffold legs must be placed on firm footing and secured from movement or tipping, especially on dirt or similar surfaces (a good foundation is a must).
- Erecting and dismantling scaffolds must be under the supervision of a Competent Person.
- The competent person must inspect scaffolds before each use.
- Don't use blocks, bricks, or pieces of lumber to level or stabilize the footings. Manufactured base plates or "mud sills" made of hardwood or equivalent can be used.

Planking:

- Fully plank or use manufactured decking to provide a full work platform on scaffolds. The platform decking and/or scaffold planks must be scaffold grade and not have any visible defects.
- Extend planks or decking material at least 6' over the edge or cleat them to prevent movement. The work platform or planks must not extend more than 12" beyond the end supports to prevent tipping when stepping or working.
- Be sure that manufactured scaffolds are the proper size and that the end hooks are attached to the scaffold frame.

Guardrails:

- Guard scaffold platforms that are more than 10 feet above the ground or floor surface must have a standard guardrail. If guardrails are not practical, use other fall protection devices such as safety belts/harnesses and lanyards.
- Place the top rail approximately 42" above the work platform or planking, with a mid-rail about half that high at 21".
- Install toe boards when other workers are below the scaffold.

6. FALL PROTECTION

OSHA has specific and detailed requirements for fall protection – refer to 29 CFR 1926 Subpart M, 29 CFR 1910, 29 CFR Subpart I. A few of those requirements are listed below:

Guarding:

- Install guardrails around open floors and walls when the fall distance is 4' or more. The top rail must withstand a 200 lb load.

- Construct guardrails with a top rail approximately 42" high with a midrail about half that high at 21".
- Install toe boards when other workers are below the work area.
- Cover floor openings larger than 2x2 (inches) with material to safely support the working load.
- Use other fall protection systems like personal fall arrest systems (harness & lanyard), slide guards, roof anchors or alternative safe work practices when a guardrail system cannot be used. Only wear proper shoes or footwear to lessen slipping hazards.
- Train workers on safe work practices before performing work on foundation walls, roofs, trusses, or where performing exterior wall erections and floor installations.
- Flagging systems can be used, where appropriate. Flagging systems must comply with OSHA guidance.

7. EXCAVATION AND TRENCHING

Refer to OSHA regulations for excavation and trenching requirements, along with regulations for walking and working surfaces: 29 CFR 1926 Subpart P, 29 CFR 1910 Subpart D

Some of the Excavation and Trenching requirements are listed below:

- Find the location of all underground utilities by contacting West Virginia 811 before digging. Dial 811 or 800-245-4848.
- Keep workers away from digging equipment and never allow workers in an excavation when equipment is in use.
- Keep workers from getting between equipment in use and other obstacles and machinery that can cause crushing hazards.
- Keep equipment and the excavated dirt back 2 feet from the edge of the excavation.
- Have a competent person conduct daily inspections and correct any hazards before workers enter a trench or excavation.
- Provide workers a way to get into and out of a trench or excavation. Ladders and ramps can be used and must be within 25' of the worker.
- For excavations and utility trenches over 5 feet deep, use shoring (trench boxes), benching, or slope back the sides. Unless soil analysis has been completed, the earth's slope must be at least 1-1/2 horizontal to 1 vertical
- Keep water out of trenches with a pump or drainage system, and inspect the area for soil movement and potential cave-ins.
- Open ditches more than 24 hours or overnight must have fence protection.
- Keep drivers in the cab and workers away when dirt and other debris are being loaded into dump trucks. Workers must never be allowed under any load and must stay clear of the back of vehicles.

8. TOOLS AND EQUIPMENT

- Maintain all hand tools and equipment in safe condition and check regularly for defects. Broken or damaged tools and equipment must be removed from the jobsite.

- Use double insulated tools, or ensure the tools are grounded (check for ground plug).
- Equip all power saws (circular, skill, table, etc) with blade guards. Saws must be turned off when unattended. Unplug all power tools when not in use.
- Make sure cords are not damaged. The outer insulation must not be cut or damaged.
- Pneumatic and powder-actuated tools must only be used by trained and experienced personnel. Require proper eye protection for workers.
- Never leave cartridges for pneumatic or powder-actuated tools unattended. Keep equipment in a safe place, according to manufacturer's instructions.

9. VEHICLES AND MOBILE EQUIPMENT

- Inform workers verbally and provide training to stay clear of backing and turning vehicles and equipment with rotating cabs.
- Maintain back-up alarms for equipment with limited rear view or use someone to help guide them back.
- Verify experience or provide training to crane and heavy equipment operators.
- Maintain at least 10 foot clearance from overhead power lines when operating equipment.
- Block up the raised bed when inspecting or repairing dump trucks.
- Use a tag line to control materials moved by a crane.

10. ELECTRICAL

- Prohibit work on new and existing energized (hot) electrical circuits until all power is shut off and a positive "Lockout/Tagout System" is in place.
- Maintain all electrical tools and equipment in safe condition and check regularly for defects.
- Broken or damaged tools and equipment must be removed from the jobsite.
- Protect all temporary power (including extension cords) with Ground Fault Circuit Interrupters (GFCI's). Plug into a GFCI protected temporary power pole, a GFCI protected generator, or use a GFCI extension cord to protect against shocks.
- Locate and identify overhead electrical power lines. Make sure that ladders, scaffolds, equipment or materials never come within 10 feet of electrical power lines.
- Exterior electrical must be approved (UL, NEMA, etc) for exterior use (no internal junction boxes).

11. FIRE PREVENTION

- Provide fire extinguishers near all welding, soldering or other ignition sources.
- Avoid spraying of paint, solvents or other types of flammable materials in rooms with poor ventilation. Build up of fumes and vapors can cause explosions or fires.
- Store gasoline and other flammable materials in a safety can outdoors or in an approved storage facility. (Metal cans with self-sealing lids).

12. CHEMICAL HAZARDS

All hazardous chemicals present in the workplace must have an up-to-date Material Safety Data Sheet (MSDS). All contractors shall maintain MSDS for chemicals used or stored at GSD facilities. All warnings and directions for use must be followed.

13. CONFINED SPACES

By definition, a **confined space**:

- Is large enough for an employee to enter fully and perform assigned work;
- Is not designed for continuous occupancy by the employee; and
- Has a limited or restricted means of entry or exit.

These spaces may include underground vaults, tanks, storage bins, pits and diked areas, vessels, silos and other similar areas.

By definition, a **permit-required confined space** has one or more of these characteristics:

- Contains or has the potential to contain a hazardous atmosphere;
- Contains a material with the potential to engulf someone who enters the space;
- Has an internal configuration that might cause an entrant to be trapped or asphyxiated by inwardly converging walls or by a floor that slopes downward and tapers to a smaller cross section; and/or
- Contains any other recognized serious safety or health hazards.

Entry into confined spaces without an evaluation is forbidden. Entry into permit-required confined spaces requires compliance with all OSHA requirements. Entry into non-permit spaces will require an evaluation by GSD Safety to confirm that conditions remain non-permit required.

Contractors that perform confined space entry activities are required to comply with OSHA regulations. GSD will not provide confined space rescue equipment.

14. LOCK-OUT/TAG-OUT

Before working on, repairing, adjusting or replacing equipment and machinery, all appropriate safety procedures, including lockout/tagout, must be utilized to place the machinery or equipment in a neutral or zero mechanical state.

Outside contractors are expected to have knowledge of lock-out/tag-out requirements.

Contractor Acknowledgement:

I, the undersigned, have read, reviewed and acknowledge my understanding of the General Services Division safety requirements, as set forth in this handbook. I am also aware that all applicable rules and regulations are to be followed, regardless of whether they are specifically mentioned in this handbook.

Contractor Representative (Print Name): _____

Contractor Representative Signature: _____ Date: _____

This signed acknowledgement must be signed and returned to the GSD Safety Section prior to start of project work.

SECTION 01 56 00

TEMPORARY BARRIERS AND ENCLOSURES

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2007) to include State of West Virginia revisions, all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes:

1. Maintenance and assumption of temporary fencing installed as follows:
 - a. Construction fence at periphery of Contractor Laydown Areas.
 - b. Temporary tree protection.
2. New Temporary Barriers installed as followings:
 - a. Construction barriers for pedestrian and security protection at Ground-Floor Level.
 - b. Access support structure at grade level to prevent tampering, climbing, and unauthorized access.
3. Temporary Weather Protection over and the following areas:
 - a. First-floor level of the north portico.
 - b. Upper flight of North Stair.
 - c. East and west cheeks walls of north stair.
4. Temporary Access to the following exterior locations:
 - a. First-floor level at the north portico
 - b. East and west edges of the north portico
 - c. East, south, and west faces of east and west cheek walls
5. Temporary Access to the following interior locations:
 - a. Soffits and sides of concrete-encased structural steel beam within reading room, break room, and east and west closet spaces.
6. Temporary Mechanical and Electrical Systems.

1.3. REFERENCES

- A. ANSI A10.11 (2010), “Safety Requirements for Personnel and Debris Nets— American National Standard for Construction and Demolition Operations”
- B. NFPA 51B (2019): “Standard for Fire Prevention During Welding, Cutting, and Other Hot Work”
- C. NFPA 241 (2019): “Standard for Safeguarding Construction, Alteration, and Demolition Operations”
- D. UL 305 (2012): “UL Standard for Safety Panic Hardware”
- E. ANSI/BHMA A156.29-2017: “Exit Locks, Exit Alarms, Alarms for Exit Devices”

1.4. DEFINITIONS

- A. Stable surface: A surface that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition.
- B. Firm surface: A surface that resists deformation by either indentations or particles moving on its surface.
- C. Slip-resistant surface: A surface that provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.

1.5. ACTION SUBMITTALS

- A. Shop Drawings, General:
 - 1. All Shop Drawings must be submitted with corresponding calculations that are stamped by a Professional Engineer licensed in the State of West Virginia and that demonstrate compliance with Specifications and all local, State, and Federal codes and requirements.
- B. Temporary Construction Barrier Shop Drawings:
 - 1. General: Drawings shall convey how the barrier will be constructed and supported such that it can resist all anticipated loads and will remain erect throughout construction.
 - a. Interior barriers at Ground Floor
 - b. Temporary weather protection over openings when concrete of upper flight is removed.
 - c. Free-standing construction barriers
 - 2. Shop Drawings shall include, but are not limited to, the following:
 - a. Finishes for areas exposed to public view
 - b. Supports to withstand all applicable loads
 - c. Floor protection at interior construction barrier supports
 - d. Wall protection adjacent to interior construction barrier
 - e. Integration of barrier at base of support structure with temporary enclosure system

C. Access Support Structure Shop Drawings:

1. General: Access structure shall be engineered and constructed to support all anticipated vertical and lateral loads while complying with all project requirements indicated in the Drawings and this Section.
2. Drawings shall be sealed by a Professional Engineer licensed in the State of West Virginia.
3. Shop Drawings shall include, but are not limited to, the following:
 - a. Loads imposed at support locations, including lateral bracing or guying requirements, as applicable.
4. At a minimum, the Shop Drawings shall include.
 - a. Allowable soil bearing pressure for supports bearing directly on grade.
 - b. If necessary, installation requirements for engineered foundations.
 - c. Special inspection requirements in accordance with chapter 17 of the IBC.
 - d. Maximum working capacity
 - e. Anchoring requirements, if necessary

1.6. INFORMATIONAL SUBMITTALS

- A. Qualification Data: For geotechnical engineer, structural engineer, and land surveyor.
- B. Site Survey: Submit a digital drawing file in DWG file format identifying all site data surveyed by the professional surveyor.
- C. Geotechnical Investigation Reports: Submit a copy of the geotechnical investigation summary report in accordance with Section 1803.6 of the 2015 IBC.

PART 2 - PRODUCTS

2.1. PERFORMANCE REQUIREMENTS

- A. All temporary protection elements installed as a part of Phase I and described in this Section shall be designed, installed, and maintained to adequately support all required loads for the duration of construction.
- B. Loads on temporary protection elements shall be calculated in accordance with ASCE/SEI 37-14 and ASCE/SEI 7-10 using the following minimum design criteria:
 1. Risk category for environmental loads: II
 2. Design construction period: 1–2 years
 3. Roof live loads: To be verified by Contractor's Engineer
 4. Snow load parameters:
 - a. Ground snow load, P_g : 16 psf (reduced per §6.4.1 of ASCE/SEI 37-14)
 - b. Exposure factor, C_e : 1.2
 - c. Thermal factor, C_t : 1.2
 - d. Snow importance factor, I_s : 1.0

5. Wind load parameters:
 - a. Design wind velocity, V : 98 mph (reduced per §6.2.1 of ASCE/SEI 37-14)
 - b. Wind directionally factor, K_d : 0.85
 - c. Exposure category: B
 - d. Ground elevation factor, K_e : 1.0
 - e. Gust-effect factor, G : To be verified by Contractor's Engineer
 - f. Internal pressure coefficient, GC_{pi} : ± 0.55

6. Seismic load parameters:

- a. Seismic loads need not be considered per §6.5.1 of ASCE/SEI 37-14

- C. Elements that are damaged during construction shall be immediately repaired or replaced.
- D. All temporary protection elements shall be engineered to be self-supporting. No temporary protection elements shall be anchored to the existing structure or to any existing site element.
- E. No fasteners shall penetrate into any of the existing finishes.
 1. Any damage to existing finishes caused by the installation of temporary barriers shall be repaired to the match the original condition of the existing finishes at no expense to the GSD.
- F. All access doors and gates shall be secured with locks when not required for used. All locks on access doors and gates shall be keyed so as to be opened using the same key.
 1. Provide one copy of the key to the Capitol police and one copy of the key for use in case emergency access to the areas is required.

2.2. TEMPORARY MATERIALS

A. General

1. Temporary materials may be new or used, but must be adequate in capacity for required usage, must not create unsafe conditions, and must not violate requirements of applicable codes and standards.
2. Wood products used for temporary materials in proximity to structure shall be fire retardant materials.
3. Due to the prominence of the building and project site, all temporary materials must be aesthetically pleasing and free from defects that would detract from the significance and aesthetics of the building.
4. Provide access into Contractor Laydown Area and within any tree protection fencing in a manner that will allow access for the GSD and Division of Protective Services in the event of an emergency or for the maintenance of trees.
 - a. Where locked gates and doors are incorporated into the temporary fencing and barriers, all locks shall be keyed to the same key. Provide one key to the GSD and one key to the Division of Protective Services in the event that emergency access is required.

B. Chain-Link Fence: For exterior construction fence

1. All site perimeter and tree protection fence has been installed. Portions of the fence is the property of the GSD. After completion of the project, the GSD-owned fencing shall be dismantled and discard.
2. The remaining portions of fence are the property of other Vendors. Contractor shall assume all rental cost for the installed site protection measures from other Vendors beginning at Notice to Proceed. The Vendors for the fencing whose costs are to be assumed by the Contractor include:
 - a. All Site Services, Inc.
173 Bosley Branch Road
Mineral Wells, WV 26150
(304) 489-9138
(304) 481-3160
 - b. Superior Fence, Inc.
8233 Aarons Fork Road
Elkview, WV 25071
(304) 965-9191
3. If additional fence is needed. All materials shall comply with the following:
 - a. Galvanized steel chain-link fence fabric of 11-gauge wire. Minimum height of 8 feet unless otherwise approved by GSD.
 - b. Frame: 1-5/8" diameter, schedule-40 (standard) pipe frame, 8'-0" height, 12'-0" length maximum. Posts: 1-5/8" diameter, schedule-40 (standard) pipe frame, embedded 5" into concrete blocks.
 - c. Concrete Blocks: 4000 psi minimum, 1'-6" square, 5" thick.
 - d. Accessories: Hog ring ties, panel clamps, and other accessories for a complete fence system.
 - e. Construction Privacy Screen: Provide privacy screen constructed with high density polyethylene that is UV stable and can be secured to temporary construction fencing.
 - 1) Minimum opacity percentage: 90%
 - 2) Minimum weight: 5 oz. per square yard.

C. Fire-Rated Plywood

1. Provide fire-rated plywood at temporary construction barriers, and where required for construction operations.
2. Thickness: 1/2" minimum
3. Fire Rating: Class A

D. Interior Drywall

1. Provide interior drywall to finish all temporary construction barriers on the interior of the building.
2. Thickness: Minimum 1/2"
3. All surfaces to be painted with one of the following colors, at the discretion of the GSD:
 - a. Gray to match the grain of the marble of the interior finishes.

4. Accessories:

- a. Provide all fasteners, joint compound, and drywall accessories to provide a smooth finish surface of the drywall.
- b. Provide trim and baseboard accessory pieces as required to provide a clean, finished appearance of the temporary barriers.

E. Panic Hardware

1. Panic hardware shall be listed in accordance with UL 305

F. Door Alarm

1. Provide door alarms complying with ANSI/BHMA A156.29.
 - a. The alarm system shall have an audible alarm with an output of at least 100 dBA at 1 foot that is activated by unauthorized opening of the door.
 - b. Alarm shall sound continuously until disarmed.
 - c. Arming and disarming shall be via key.

2.3. TEMPORARY CONSTRUCTION FENCING

- A. Construction fencing is used to delineate limits of construction areas; restrict access to authorized personnel; and protect pedestrians, landscaping, and adjacent areas from construction operations has already been installed at limits shown in the Drawings. Contractor shall inspect all site fencing and make all modifications as necessary to meet all requirements of this Specification.
1. Access: Install locking gates as shown in the Drawings and to provide access into the Laydown area, access across pedestrian walkways, into tree protection areas, and other locations required to support the Contractor's activities.
 2. Gates installed across the fire lane shall provide a minimum unobstructed clear width of 20 feet when open.
 3. Egress gates shall be swinging type and shall open outward towards the public way. Egress gates shall be secured via panic hardware installed on the interior side in accordance with Section 1010.1.10.1 of the 2015 IBC; no other latch or lock device shall be provided on egress gates.
 4. Non-egress gates may be swinging type, sliding type, or a combination thereof, and shall be secured using locks that are all unlocked using the same key.

2.4. TEMPORARY CONSTRUCTION BARRIERS

- A. Provide barriers to prevent unauthorized entry into Capitol through construction area, entry into construction areas and to protect pedestrians, existing facilities, and adjacent properties from damage by construction operations.
- B. Temporary exterior construction barriers will be located as shown in the Drawings, where required by Code, and in the following areas.

1. Locations adjacent to elevated work exceeding 8 feet above grade where the horizontal distance between the pedestrian walkway and elevated work (including any hoisted materials) is less than one half of the height of the work. Barriers need only be installed on the side of the walkway facing the elevated work or hoisted material.
- C. Temporary interior barriers will be located as shown in the Drawings and in the following locations:
1. At the Ground Floor adjacent to all interior doors leading into and into adjacent spaces of the Journal Reading room while the upper flight and concrete check wall concrete slabs are removed.
- D. Barriers shall be designed to resist all loads in Chapter 16 of the 2015 International Building Code (IBC) or shall be constructed prescriptively as described in the 2015 IBC, Chapter 33, Section 3306.6, “Barrier design.”
1. For interior temporary construction barriers, the following shall also be met:
 - a. Plywood used in barrier construction shall be fire-treated.
 - b. Barrier exposed to public areas shall be finished with painted drywall.
 - c. Barrier heights vary, as shown on the Drawings, but shall not be less than the code-prescribed minimum.
- E. All interior surfaces exposed to the public shall be finished with painted drywall in accordance with Article 2.2.C of this Section.

2.5. ACCESS SUPPORT STRUCTURE

- A. General: Comply with requirements of the 2015 IBC and OSHA for construction of access support structure.
1. Access support structure shall be an engineered structure designed and sealed by a Professional Engineer licensed in the State of West Virginia.
 2. Access support structure shall be independently supported on grade. The structure shall not be supported by, connected to, or impart any load in any way to the existing building. No anchors or attachments shall be made into any portion of the building.
 3. Support structure shall be engineered to be self-supporting and capable of adequately resisting required all design loads.
 4. Foundations shall be designed and constructed based on the actual soil and geotechnical conditions at each location.
 5. Design of enclosure and access support structure must account for loads from hoisting, workers, tools and equipment, or any other construction activities that may impart load into the structure.
 6. Support structure shall be engineered to be self-supporting and capable of adequately resisting required all design loads.
 7. Support structure shall not be anchored to, be supported by, or bear onto any horizontal or vertical surface of the existing structure.
 8. Access support structure is intended to provide access for construction personnel to the first-floor portico level to limit construction traffic through the building after the stair and

check wall slabs have been removed. Means should also be provided to transport materials, equipment, and supplies between the ground level and portico level.

9. Structure shall be constructed so as not to interfere with egress routes from the building.
10. Protect existing finishes at locations where structure makes incidental contact with building surfaces. Any locations that are damaged shall be repaired at the Contractor's expense.

2.6. TEMPOARY WEATHER ENCLOSURE

1. Temporary protection and enclosure measures shall be designed and installed to completely prevent water infiltration into areas where work is being executed, which could cause leakage to the interior of the building or interfere with the successful execution of the work.
2. Temporary protection must be able to fully span across openings where slab is removed and designed to independently resist all induced loading and designed in accordance with Chapter 16 of the 2018 International Building Code (IBC).
3. Temporary protection must incorporate fall protection measures to prevent workers, authorized and unauthorized personnel from falling into openings when slabs are removed.
4. Temporary protection measures must prevent unauthorized entry into Capitol building.
5. Design of enclosure must account for loads from hoisting, workers, tools and equipment, or any other construction activities that may impart load into the structure.
6. Support structure shall be engineered to be self-supporting and capable of adequately resisting required all design loads.

PART 3 - EXECUTION

3.1. GENERAL

- A. Maintain temporary way-finding signage that clearly directs pedestrians through work areas prior to installing temporary fencing, construction barriers, covered walkway, or structures. Inspect signage on a daily basis to ensure adequate direction is provided for pedestrians. Remove and discard signage after project completion.
- B. All temporary facilities shall be maintained in a neat, orderly, and reasonably uniform condition and free from any graffiti.

END OF SECTION 01 56 00

SECTION 01 60 00

PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. This section includes the following subjects:
 - 1. Transportation and Handling
 - 2. Storage and Protection
 - 3. Existing Products

1.3. RELATED SECTIONS

- A. Section 01 11 00 – “Summary of Work”
- B. Section 01 31 00 – “Project Management and Coordination”
- C. Section 01 33 00 – “Submittal Procedures”
- D. Section 01 77 00 – “Closeout Requirements”

1.4. DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

1.5. TRANSPORTATION AND HANDLING

- A. Arrange deliveries of material in accordance with construction schedules.
 - 1. Coordinate delivery so as to avoid conflict with the Work and with conditions at the site.
 - 2. Coordinate delivery in order to minimize site storage time and potential damage to stored materials.

3. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
 4. Coordinate delivery to avoid disruptions and interruptions of building operations.
- B. Transport and handle products in accordance with manufacturer's instructions. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft.
- C. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- D. Provide equipment and personnel to handle the material by methods that will prevent soiling or damage to the products or the packaging.
- E. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

1.6. STORAGE AND PROTECTION

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
- B. Store materials in strict accordance with the manufacturer's instructions, with seals and labels intact and legible. Store products subject to damage by the elements in weather-tight enclosures. Maintain temperature and humidity within the range required by the manufacturer's instructions.
1. Store materials in a secure area such that they cannot be tampered with.
- C. Exterior storage:
1. Store products above the ground, on blocking or skids, so as to prevent soiling or staining. Cover products that are subject to deterioration with watertight sheet coverings; provide adequate ventilation to prevent condensation.
 2. Store loose granular materials in a well-drained area on a solid surface to prevent mixing with foreign matter.
 3. Prevent contact with material that may cause corrosion, discoloration, or staining.
 4. Store materials in a secure area such that they cannot be tampered with.
- D. Arrange storage in a manner to provide easy access for inspection. Make periodic inspections of stored materials to assure that they are maintained under specified conditions, free from damage deterioration.

1.7. EXISTING PRODUCTS

- A. Many existing products or materials are indicated to remain in place, and work covered by the Contract Documents will be installed over or connected to such remaining existing products or materials. Where existing products or materials are to remain, they shall be inspected and repaired as needed prior to installing new products or materials over or adjacent to the remaining existing

products or materials.

- B. Do not use materials and equipment removed from existing premises unless specifically required or permitted by the Contract Documents.
- C. Unforeseen historic items encountered remain the property of the GSD; notify GSD promptly upon discovery; protect, remove, handle, and store as directed by the GSD and in accordance with Section 01 11 00 “Summary of Work.”
- D. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the GSD, or otherwise indicated as to remain the property of the GSD, become the property of the Contractor and should be properly remove from site.

PART 2 - PRODUCTS
NOT USED.

PART 3 - EXECUTION
NOT USED.

END OF SECTION 01 60 00

SECTION 01 74 00

CLEANING AND WASTE MANAGEMENT

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. The work shall consist of providing the necessary labor, material, tools, equipment, and services for and reasonably incidental to cleaning work specified.

1.3. RELATED SECTIONS

- A. Section 01 77 00 – “Closeout Procedures”

1.4. GENERAL REQUIREMENTS

- A. Maintain the premises and all spaces free from accumulation of waste, debris, and rubbish caused by construction operations.
- B. When the work area is returned to the GSD for use, the work area as well as adjacent areas on each side, shall be free of construction debris.
- C. At completion of the Work, remove all waste materials, rubbish, tools, construction equipment, machinery, and surplus material; and clean all exposed surfaces.
- D. Maintain the project in accordance with the requirements of the Federal Occupational Safety and Health Act, and all rules and regulations pursuant to the Act.
- E. Hazard control:
 - 1. Store volatile or flammable waste, such as mineral spirits, oil, oily rags, paint rags, paint cans, paint thinner, and other potentially hazardous refuse, in covered metal containers outside of the building.
 - 2. Do not permit the accumulation of waste materials and debris on the premises. Work areas to be cleaned daily to the satisfaction of the GSD and Engineer.
- F. Conduct all cleaning and disposal operations in compliance with all local laws and ordinances and anti-pollution laws.

- G. Burning or burying of debris, rubbish, or other waste materials on the premises will not be permitted.
- H. Do not dispose of volatile wastes, such as mineral spirits, oil, or paint thinner, in storm or sanitary drains.

1.5. SUBMITTALS

- A. Submit the name and location of an approved disposal site for wastes to the authorized representative of the GSD.

PART 2 - PRODUCTS

2.1. MATERIALS

- A. On surfaces to be cleaned, use only the cleaning material or agent recommended by the manufacturer or fabricator of the surface to be cleaned and that won't damage any surface.
- B. Do not use cleaning agents on surfaces other than those recommended by cleaning agent manufacturer.

PART 3 - EXECUTION

3.1. PROGRESS CLEANING

- A. General: Maintain Project site and work areas free of waste materials and debris. Execute cleaning in such a manner to ensure that the building, premises, and public and adjacent properties are maintained free from accumulation of debris, waste materials, and rubbish. Handle waste materials, debris, and rubbish with as few handlings as possible. Do not drop or throw debris from heights. Clean work areas on a daily basis to the satisfaction of the GSD and Engineer.
- B. Provide suitable closed containers, as approved, on site and in sufficient quantity and capacity to provide safe storage of rubbish and debris until disposal.
 - 1. Remove waste materials, debris, and rubbish from the site and dispose of legally at an approved public or private dumping area.
 - 2. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - 3. Burying or burning waste materials on-site will not be permitted. Washing waste materials down sewers or into waterways will not be permitted.
- C. Schedule cleaning operations so that dust and other contaminants resulting from cleaning operations do not fall on wet, painted, or otherwise uncured surfaces.
- D. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
- E. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper

execution of the Work.

1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- F. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- G. Exposed Surfaces: Clean exposed surfaces. Protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- H. Cutting and Patching: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.
- I. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- J. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- K. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period. Where applicable, such exposures include, but are not limited to, the following:
1. Excessive static or dynamic loading.
 2. Excessive internal or external pressures.
 3. Excessively high or low temperatures and humidity.
 4. Thermal shock.
 5. Pollution and air contamination.
 6. Water or ice.
 7. Chemicals and solvents.
 8. Light.
 9. Radiation.
 10. Puncture.
 11. Abrasion.
 12. Heavy traffic.
 13. Soiling, staining, and corrosion.
 14. Bacteria.
 15. Rodent and insect infestation.
 16. Combustion.
 17. Electrical current.
 18. High-speed operation.
 19. Improper lubrication.
 20. Unusual wear or other misuse.
 21. Contact between incompatible materials.

22. Destructive testing.
23. Misalignment.
24. Excessive weathering.
25. Unprotected storage.
26. Improper shipping or handling.
27. Theft or vandalism.

3.2. FINAL CLEANING

- A. Coordinate final cleaning with other requirements for project completion in Section 01 77 00 "Closeout Procedures."
- B. General: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
- C. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project.
 1. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 2. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 3. Sweep concrete floors broom clean in unoccupied spaces.
 4. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 5. Remove tools, construction equipment, machinery, and surplus material from Project site.
 6. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 7. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 8. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.
 9. Remove labels that are not permanent.
 10. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 11. Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
 12. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 13. Replace parts subject to unusual operating conditions.
 14. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 15. Replace disposable air filters, and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
 16. Clean ducts, blowers, and coils if units were operated without filters during construction.

17. Leave Project clean and ready for occupancy.
- D. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on Capitol Complex property. Do not discharge volatile, harmful, or dangerous materials into drainage systems. Remove waste materials from Project site and dispose of lawfully.

END OF SECTION 01 74 00

SECTION 01 77 00

CLOSEOUT PROCEDURE

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final Completion procedures.
 - 3. Final cleaning.
 - 4. Repair of the Work.

1.3. RELATED SECTIONS

- A. Section 01 29 00 – “Payment Procedures”
- B. Section 01 74 00 – “Cleaning and Waste Management”
- C. Section 01 78 39 – “Project Record Documents”

1.4. SUBMITTALS

- A. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- B. Certified List of Incomplete Items: Final submittal at Final Completion.

1.5. SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion: Complete the following a minimum of ten days prior to requesting inspection for determining date of Substantial Completion. List items below that are

incomplete at time of request.

1. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.
 2. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 3. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Engineer. Label with manufacturer's name and model number where applicable.
 - a. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Engineer's signature for receipt of submittals.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of ten days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Complete final cleaning requirements.
 2. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
 3. Damage to the existing building will be the responsibility of the Contractor and must be addressed to the satisfaction of WDP and the GSD prior to Final Completion.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of ten days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Engineer will either proceed with inspection or notify Contractor of unfulfilled requirements. Engineer will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Engineer, that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 2. Results of completed inspection will form the basis of requirements for final completion.

1.6. FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
1. Submit Final Application for Payment according to Section 01 29 00 "Payment Procedures."
 2. Certified List of Incomplete Items: Submit certified copy of Engineer's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Engineer. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.

3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
 4. Submit Project Record Documents in accordance with Section 01 78 39 “Project Record Documents.”
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of ten days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Engineer will either proceed with inspection or notify Contractor of unfulfilled requirements. Engineer will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
- C. Complete final inspection report of temporary facilities to ensure that all temporary facilities to remain are free from deficiencies and are ready to be transitioned to the Phase 2 Contractor.
- D. Deliver keys to GSD for all locks on the project site.
- 1.7. LIST OF INCOMPLETE ITEMS (PUNCH LIST)
- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 3. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Engineer.
 - d. Name of Contractor.
 - e. Page number.
- B. Submit list of incomplete items in the following format:
1. PDF electronic file. Engineer will return annotated file.

PART 2 - PRODUCTS

2.1. MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1. FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Perform final cleaning in accordance with Section 01 74 00 “Cleaning and Waste Management.”

END OF SECTION 01 77 00

SECTION 01 78 39

PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings.
 - 2. Record Product Data.
 - 3. Record Maintenance Data.
 - 4. Miscellaneous Record Submittals.
- B. Related Requirements:
 - 1. Section 01 77 00 – “Closeout Procedures”

1.3. SUBMITTALS

- A. Record Drawings and all Shop Drawings: Comply with the following:
 - 1. All Record Documents must be submitted before authorization of final payment can be made.
 - 2. Number of Copies:
 - a. Submit one full-sized (24” × 36”) set of marked-up record prints.
 - b. Submit Digital Record of Drawings in PDF electronic format
 - c. Submit one original copy of all stone inspection reports
- B. Record Product Data: Submit annotated PDF electronic files and directories of each submittal.
- C. Record Maintenance Data: Submit requirements for maintenance for each temporary product submitted to remain with detailed instructions on cleaning and maintenance of such product.
- D. Record Stone Data: Submit updated stone catalog in accordance with , including photographs and updated stone survey sheets showing actual quantities of repairs performed.

PART 2 - PRODUCTS

2.1. RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued.
 - 1. Preparation: Mark record prints to show the actual conditions where hidden conditions varies from that shown originally.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Accurately record information in an acceptable drawing technique.
 - c. Record data as soon as possible after obtaining it.
 - d. Record and check the markup before enclosing concealed installations.
 - e. Cross-reference record prints to corresponding archive photographic documentation.
 - 2. Content: Types of items requiring marking include, but are not limited to, the following:
 - a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Locations of original elements and finishes left in place as a historical record.
 - d. Locations of concealed internal utilities.
 - e. Changes made by Change Order or Construction Change Directive.
 - f. Changes made following Engineer's written orders.
 - g. Clarifications to Contract Documents from RFIs.
 - h. Details not on the original Contract Drawings.
 - i. Field records for variable and concealed conditions.
 - j. Record information on the Work that is shown only schematically.
 - 3. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
 - 4. Mark record sets with erasable, red-colored pencil. Use other, easily-distinguishable colors to differentiate between changes for different categories of the Work at same location.
 - 5. Mark important additional information that was either shown schematically or omitted from original Drawings.
 - 6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Engineer. When authorized, prepare a full set of corrected digital data files of the Contract Drawings as follows:
 - 1. Format: Same digital data software program, version, and operating system as the original Contract Documents.
 - 2. Format: Annotated PDF electronic file with comment function enabled.
 - 3. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
 - 4. Refer instances of uncertainty to Engineer for resolution.

2.2. RECORD PRODUCT DATA

- A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
 - 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 - 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 - 3. Note related Change Orders and record Drawings where applicable.
- B. Format: Submit record Product Data as annotated PDF electronic file.
 - 1. Include record Product Data directory organized by Specification Section number and title, electronically linked to each item of record Product Data.

2.3. RECORD MAINTENANCE DATA

- A. General: Record maintenance data can be incorporated into package for record product data, provided information relating to maintenance of products and materials are clearly defined.
- B. Content: Organize data into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
- C. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual and drawing or schedule designation or identifier where applicable.
- D. Product Information: Include the following, as applicable:
 - 1. Product name and model number.
 - 2. Manufacturer's name.
 - 3. Color, pattern, and texture.
 - 4. Material and chemical composition.
 - 5. Reordering information for specially manufactured products.
- E. Maintenance Procedures: Include manufacturer's written recommendations and the following:
 - 1. Inspection procedures.
 - 2. Types of cleaning agents to be used and methods of cleaning.
 - 3. List of cleaning agents and methods of cleaning detrimental to product.
 - 4. Schedule for routine cleaning and maintenance.
 - 5. Repair instructions.
- F. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.

- G. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

- 1. Include procedures to follow and required notifications for warranty claims.

2.4. STONE CATALOG

- A. Submit the updated Stone Catalog in accordance with Section 04 03 50 “Historic Unit Masonry.”
- B. The Stone Catalog shall include the following components:
 - 1. Survey Sheets: Comprehensive collection of completed and signed survey sheets for all stone units, including updated actual repair quantities.
 - 2. Photographs: Comprehensive digital collection of all photographs for each stone unit, including preconstruction, post-repair/pre-installation, and post-installation. The filename for each photograph shall include the unique stone Identification Number.
 - 3. Database: Develop an electronic database recording and summarizing all the information contained on the individual survey sheets and listing the filenames for the photographs of each stone unit. All information shall be keyed to each stone’s unique Identification Number. The Contractor shall backcheck all information in the database against the completed and signed survey sheets prior to submitting to the GSD and Engineer.

2.5. MISCELLANEOUS RECORD SUBMITTALS

- A. Assemble miscellaneous records for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.
- B. Format: Submit miscellaneous record submittals as a PDF electronic file.
 - 1. Include miscellaneous record submittals directory organized by Specification Section number and title, electronically linked to each item of miscellaneous record submittals.

PART 3 - EXECUTION

3.1. RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Engineer's reference during normal working hours.

3.2. COORDINATION

- A. Coordinate submission of Record Documents with other requirements for project completion outlined in Section 01 77 00 “Closeout Procedures.”

END OF SECTION 01 78 39

SECTION 02 41 19

SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Demolition and removal of selected portions of building or structure.
 - 2. Demolition and removal of selected site elements.
 - 3. Salvage of existing items to be reused or recycled.

- B. This section includes general provisions for the selective demolition necessary to conduct the work.

- C. This section includes additional field investigation support to be provided to the Engineer to verify existing conditions.

- D. The scope of selective demolition shall generally consist of providing all necessary labor, materials, equipment, and supervision required to conduct the selective demolition required to perform comprehensive repairs to address the ongoing moisture intrusion-related damage at the North Stair. The work applicable under this section shall generally consist of, but not be limited to, the following at each relative location:

- 1. Landing at the Portico
 - a. Remove existing mortar setting bed. Carefully remove setting bed over portions of waterproofing indicated to remain using methods to ensure remaining waterproofing is not damaged. Non-traditional means by necessary to ensure existing coal tar waterproofing remains in place and intact.
 - b. Remove existing waterproofing. Leave 8" of existing waterproofing to integrate with the new waterproofing system.
 - 2. Upper/Middle Flights and Intermediate Landing
 - a. Remove existing waterproofing.
 - b. Remove and discard existing brick pedestals and other debris on slab surface.
 - c. Remove and discard reinforced concrete slab.
 - d. Remove and discard concrete encasement around structural steel beams.
 - e. Excavate and discard fill below to grade elevations indicated in the Drawings.
 - f. Cut openings in foundation wall as indicated in the Drawings
 - 3. Platform

- a. Remove and discard mortar setting bed and waterproofing assembly, including perimeter counterflashings.
 - b. Remove and discard concrete slab on metal deck
 - c. Remove and discard existing drainage pipe system
 - d. Remove and discard ledger angles and stainless-steel bolts.
 - e. Selectively demolish portions of concrete beams and wall.
4. Lower Flight
 - a. Remove and discard existing brick pedestals and other debris on slab surface.
 - b. Inspect existing tread dowels and selectively survey, remove, and salvage dowels that are loose.
5. Pavers on Grade
 - a. Remove, salvage, and store the concrete and stone pavers indicated in the Drawings such that they can be reinstalled.
 - b. Excavate beneath pavers to depths necessary to perform the Work.
6. East and West Side Stairs
 - a. Remove and salvage all tread dowels.
 - b. Remove concrete stair stringers.
 - c. Selectively remove portion of concrete retaining wall indicated in the Drawings.
7. Cheek Walls
 - a. Inspect, catalog, remove, and salvage the select limestone cornice stones indicated in the Drawings such that they can be salvaged and reinstalled.
 - b. Remove existing waterproofing
 - c. Selectively remove and salvage brick where indicated on the Drawings.
 - d. Selectively remove concrete slabs where indicated in the Drawings.
 - e. Remove and discard concrete encasement around structural steel beams.
8. Reading Room
 - a. Remove and discard existing plaster sheathing and light-gauge metal studs.
 - b. Remove and salvage existing wood doors and door frames
 - c. Remove and salvage existing electrical outlets, switches, conduits, fixtures, boxes, wiring.
 - d. Remove and discard existing internal gutter system and piping.
 - e. Remove and discard existing carpeting.
 - f. Install temporary shoring at brick openings.
9. Anteroom
 - a. Remove and discard existing plastic wall base.
 - b. Remove and discard existing suspended tile ceiling
 - c. Remove and discard existing electrical switches, conduits, light fixtures, and wiring.
10. Break Room
 - a. Disconnect, dismantle, and salvage existing air handler unit (AHU) in place.
 - b. Temporarily disconnect and remove AHU switch and conduit.
 - c. Remove abandoned conduits and water piping.
 - d. Protect existing Telecom closet in place.
 - e. Selectively remove plaster that is damaged.
- E. Related Requirements:
 1. Section 01 50 00 "Temporary Facilities and Controls"
 2. Section 01 56 00 "Temporary Barriers and Enclosures"
 3. Section 01 32 13 "Scheduling of Work"
 4. Section 01 32 33 "Photographic Documentation"
 5. Section 01 31 00 "Project Management and Coordination"

6. Section 01 74 00 "Cleaning and Waste Management"
7. Section 04 03 50 "Historic Unit Masonry"

1.3 REFERENCES

- A. ANSI/ASSP A10.6-2006 (R2016) "Safety and Health Program Requirements for Demolition Operations"
- B. NFPA 241 (2022) "Standard for Safeguarding Construction, Alteration, and Demolition Operations"
- C. BSI (2010) "Recommended Best Practices"
- D. ILIA "Indiana Limestone Handbook 22nd Ed."
- E. NSI "Dimension Stone Design Manual 2022"

1.4 DEFINITIONS

- A. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, and safely store for repair and reinstallation.
- B. Existing to Remain: Leave and protect construction indicated to remain against damage and soiling during selective demolition.
- C. Remove and Discard: Carefully detach items from existing construction and legally dispose of items off GSD's property except those indicated to be reinstalled or to be turned over to the GSD as historical record.
- D. Remove and Salvage (for Reinstallation): carefully detach items indicated from existing construction and catalog; clean, service, and otherwise prepare them for reuse; store and protect against damage. Reinstall items in the same locations or in locations indicated.
- E. Remove and Salvage for Historical Record: carefully detach items indicated from existing construction and catalog; clean items and protect from damage until they are delivered to the GSD.
- F. Temporarily Remove: Remove and salvage items incidental to performing other work; reinstall item when incidental work is completed.
- G. Catalog: As items are removed and salvaged, label each item such that the item can be reinstalled in its original location and orientation or to serve as a record for items that were removed and salvaged for historical records. Labels shall be in a location which will be permanently unexposed from view when the item is reinstalled.
- H. Inspect: Carefully examine existing conditions of any items noted to remain to ensure that they are in proper condition. Notify engineer of any observed deficient or detrimental condition as more specifically defined in each applicable section.

- I. Survey: Measure and record the location, elevation, and orientation of existing items to be salvaged and other indicated points with relation to established benchmarks to permit reinstallation of salvaged items at their original location, elevation, and orientation.
- J. Verify: Confirm, through visual observations, that the items and conditions itemized in each applicable section are present and in proper condition. Notify Engineer of any that are missing or deficient.

1.5 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to GSD that may be uncovered during demolition remain the property of GSD.
 - 1. Carefully salvage in a manner to prevent damage and promptly return to GSD.

1.6 PREINSTALLATION MEETINGS

- A. Pre-demolition Conference: Conduct conference at Project site.
 - 1. Submit Demolition Schedule for review at least 1 week prior to the meeting to permit Engineer and GSD adequate time to review during the meeting.
 - 2. Required Attendees:
 - a. Engineer
 - b. GSD
 - c. Contractor
 - d. All parties involved in demolition.
 - 3. Agenda items shall include:
 - a. Inspect and discuss condition of construction to be selectively demolished.
 - b. Review structural load limitations of existing structure.
 - c. Review and finalize selective demolition schedule.
 - d. Identify which trades will be responsible for each item on the demolition schedule.
 - e. Verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
 - f. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
 - g. Review areas where existing construction is to remain and requires protection.
 - h. Review list of submittals and plans required for approval before demolition work can begin.
 - i. Review temporary weather and security protection requirements.
 - j. Review shoring and sequencing requirements for upper flight.
 - k. List of existing warranties held on components to remain.

1.7 ACTION SUBMITTALS

- A. Selective demolition schedule: provide schedule of materials to be removed and salvaged for historical record; materials to be salvaged, stored, and reinstalled; materials to be removed and discarded; and materials to remain.
 - 1. Identify the extents of removal of materials which are to partially remain.
 - 2. Indicate any discrepancies between proposed demolition and items or extents noted on Drawings.
 - 3. Include detailed means and methods for executing each portion of the demolition necessary to complete work.
 - 4. Include access provisions required to execute selective demolition tasks. Coordinate access requirements with section 01 50 00 “Temporary Facilities and Controls” and section 01 56 00 “Temporary Barriers and Enclosures”
 - 5. Include detailed sequence of shoring, selective demolition, and removal work with starting and ending dates for each task in coordination with the Construction Schedule in Section 01 32 13 “Scheduling of Work.” Indicate dates and items that demolition noise may create or cause disruptions to adjacent occupied spaces. Coordinate such dates with the GSD.
- B. Weather protection plan: contractor shall submit proposed plan for weather protection of the North Stair during demolition and construction. Proposed temporary weather protection shall prevent water entry into the interior of the building during the construction period.
 - 1. Include specific information relating to the temporary enclosures at the North Stair in accordance with Section 01 56 00 “Temporary Barriers and Enclosures.”
 - 2. Include specific information for weather protection for the removal of the limestone treads, pavers, and panels of the North Stair.
- C. Site security protection plan to include provisions for security of laydown area and also to prevent unauthorized entry into the building while concrete slabs are removed.

1.8 INFORMATIONAL SUBMITTALS

- A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, and for dust control. Indicate proposed locations and construction of barriers.
- B. Schedule of Selective Demolition Activities: Indicate the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure GSD's on-site operations are uninterrupted.
 - 2. Interruption of utility services. Indicate how long utility services will be interrupted.
 - 3. Coordination for shutoff, capping, and continuation of utility services.
 - 4. Coordination of GSD's continuing occupancy of portions of existing building and of GSD's partial occupancy of completed Work.
- C. Pre-demolition Photographs or Video: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by salvage and demolition operations. Comply with Section 01 32 33 "Photographic Documentation." Submit before Work begins.

- D. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
- E. Warranties: Documentation indicating that existing warranties are still in effect after completion of selective demolition.

1.9 ADDITIONAL FIELD INVESTIGATION SUPPORT

- A. The field investigation performed by the Engineer focused on the source of water infiltration leading to damage of the North Stair and interior Reading Room. Other conditions have since been noted that require additional investigative support to verify the assumptions needed to develop the repair design. The following outlines specific requirements for additional field investigation support to be provided by the Contractor as part of the repair project.
 - 1. Encased Steel Beams: Removal of all concrete encasement around the steel beams and provide access to the Engineer to verify the section sizes and evaluate each steel beam for corrosion and section loss.
 - 2. Cheek wall slabs: Once the caps and panels are removed from cheek walls and waterproofing membrane has been removed from the top of the cheek wall slab, provide access to provide access above and beneath the cheek wall slab for the Engineer to evaluate the reinforced concrete for cracking, delamination, spalling, and other evidence of deterioration. The Engineer will identify locations to perform exploratory openings to observe the condition of the embedded reinforcement. At exploratory opening locations indicated by the Engineer, the Contractor will selectively remove the concrete to completely expose the reinforcement using means that will not damage the reinforcement. It is anticipated that each opening will be approximately 1 square foot in size and that three openings will be performed. In addition, the Engineer will indicate locations to extract concrete cores for compression strength testing and chloride testing. The Contractor will extract the cores at the locations indicated by the Engineer. It is anticipated that three 3-inch diameter cores will be required.

1.10 CLOSEOUT SUBMITTALS

- A. Inventory: Submit a list of items that have been removed and salvaged.

1.11 QUALITY ASSURANCE

- A. Firm Qualifications: Engage an experienced firm that has successfully completed selective demolition work similar to that indicated for this Project that entails selective demolition on an occupied historic building.
- B. Regulatory Requirements: Comply with containment, hauling, and disposal regulations of all local, state, and federal authorities.
- C. Preconstruction Conference: As part of the Preconstruction Conference required by Section 01 31 00 "Project Management and Coordination," the means and methods for performing the

demolition shall be discussed by all parties involved in the demolition. The following shall be discussed:

1. General condition of existing construction to be selectively demolished.
2. Selective Demolition Schedule of Items.
3. Availability of demolition personnel, including identification of which trades will be responsible for each item to be demolished.
4. Availability of materials, equipment, and facilities required for demolition and access to the items to be demolished.
5. Submittals and plans required for approval before work can begin.
6. List of existing warranties held on components to remain.

1.12 FIELD CONDITIONS

- A. GSD will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so GSD's operations will not be disrupted.
- B. Notify Engineer of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 1. If suspected hazardous materials are encountered, do not disturb; immediately notify Engineer and GSD. Hazardous materials will be removed by GSD under a separate contract.
- D. Storage or sale of removed items or materials on-site is not permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 1. Maintain fire-protection facilities in service during selective demolition operations.

1.13 BUILDING CONDITIONS

- A. The building will be occupied during the entire project and immediately adjacent to the work areas. Demolition shall be conducted so as to not reasonably disrupt use of the adjacent spaces. The Contractor shall coordinate any closure of the adjacent areas with the GSD's approval.
 1. Demolition of structural elements at the upper flight, middle landing, and middle flight shall not be commenced until after completion of the legislative session.
- B. The ground-floor level legislative offices beneath the portico will be vacated during demolition. Contractor access to these areas will be coordinated through the GSD.
 1. After completion of the structural demolition, occupancy of the ground-floor level legislative offices may be returned to the GSD if deemed safe for occupancy.
- C. The Contractor shall be responsible for protecting all components to remain, including, but not limited to, finishes, floors, and fixtures.
- D. Sale of removed items or materials on-site is not permitted.

- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
- F. Arrange selective demolition schedule so as not to interfere with GSD's operations.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- A. The Contractor shall select the means and methods of demolition and transport of demolition debris. All plans required to be submitted in this Section shall be approved by the Engineer and GSD prior to equipment mobilization. Debris shall not be transported through occupied portions of the building.
 - 1. Comply with hauling and disposal regulations of authorities having jurisdiction.
 - 2. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION OF CONDITIONS PRIOR TO DEMOLITION

- A. Prior to removing any materials, verify and document existing site conditions in accordance with Section 01 32 33 "Photographic Documentation." Document and photograph all existing landscaping, existing damages, and condition of existing construction.
- B. The existing condition of all items indicated to be salvaged, stored, reused or reinstalled, or salvaged as shall be thoroughly documented prior to removal. Any damage to existing items not noted prior to removal shall be repaired or replaced by the Contractor at no additional cost to the GSD.
- C. Discrepancies between the Drawings and existing conditions shall immediately be brought to the attention to the Engineer in writing for assessment.
- D. Notify Engineer in writing of any existing condition that would preclude or hinder the proper execution of the Work.

3.2 EXAMINATION

- A. Review Project Record Documents of existing construction or other existing condition and hazardous material information provided by GSD. GSD does not guarantee that existing conditions are same as those indicated in Project Record Documents.
- B. Verify that hazardous materials have been remediated before proceeding with building demolition operations.

- C. Survey of Existing Conditions: Record existing conditions by use of measured drawings and preconstruction photographs or video.
 - 1. Inventory and record the condition of items to be removed and salvaged.
 - 2. Before selective demolition or removal of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.

3.3 SITE PROTECTION

- A. Maintain pedestrian protection and signage in accordance with Section 01 50 00 "Temporary Facilities and Controls" and the approved Site Use Plan.
 - 1. Coordinate and allow time and access for inspection of West Virginia State Fire Marshal, GSD, and Engineer prior to continuing with the Work.
- B. All landscaping shall be protected from damage. Damaged landscaping shall be replaced by the Contractor at no additional cost to the GSD.
- C. All interior surfaces not being demolished or removed shall be protected from damage during Work. Damaged surfaces shall be replaced by the Contractor at no additional cost to the GSD.
- D. All exterior surfaces not being demolished or removed shall be protected from damage during Work. Damaged surfaces shall be repaired by the Contractor at no additional cost to the GSD.

3.4 PROTECTION

- A. Temporary Protection: Provide and maintain temporary barricades and other protection required in Section 01 50 00 "Temporary Facilities and Controls" to prevent injury to people and damage to adjacent buildings and facilities to remain.
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
 - 1. Shoring shall be designed by a Professional Engineer licensed in the State of West Virginia to full support the upper flight concrete slab to facilitate the phased demolition and placement of new reinforced concrete slabs as shown in the Drawings.
 - 2. Strengthen or add new supports when required during progress of selective demolition.
- C. Remove temporary barricades and protections where hazards no longer exist.

3.5 SELECTIVE DEMOLITION, GENERAL

- A. Removal of any materials shall not begin until proper site protection is in place.

- B. Demolish and remove existing construction only to the extent indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Proceed with selective demolition systematically. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 - 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
 - 3. Locate selective demolition equipment and remove debris and materials so as not to impart loads on supporting walls, floors, or framing.
 - 4. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 - 5. Do not use cutting torches unless otherwise approved by the Engineer and GSD in writing.
 - 6. Dispose of demolished items and materials promptly. Comply with requirements in Section 01 74 00 "Cleaning and Waste Management."
- C. Remove only materials which are scheduled for removal. Removal of materials beyond the scope of Work shall not result in additional costs to the GSD.
- D. Remove materials indicated to be removed and reinstalled in a manner that will not damage the existing materials remaining in place.
- E. Removed and Salvaged Items:
 - 1. Clean salvaged items.
 - 2. Transport items to Contractor's storage area on-site.
 - 3. Protect items from damage during transport and storage.
- F. Removed and Reinstalled Items:
 - 1. Clean and repair items to functional condition adequate for intended reuse.
 - 2. Pack or crate items after cleaning and repairing. Identify contents of containers.
 - 3. Protect items from damage during transport and storage.
 - 4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- G. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Engineer, items may be removed to a suitable, protected storage location during selective demolition, cleaned, and reinstalled in their original locations after selective demolition operations are complete.

3.6 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Concrete:

1. Demolish in sections.
 2. Phase repairs where indicated.
 3. Install temporary shoring prior to demolition to fully support all sections of concrete to be removed.
 4. At junctures with construction to remain, cut concrete using power-driven saw to a depth of at not greater than 3/4 inch, unless otherwise substantiated by exploratory openings. Dislodge concrete from reinforcement at perimeter of areas being demolished, cut reinforcement at locations indicated in the Drawings, and then remove remainder of concrete. Neatly trim openings to dimensions indicated.
 - a. Do not bend, cut, notch, or otherwise damage sections of reinforcement indicated to remain.
 - b. Remove concrete and mortar from and clean reinforcement indicated to remain.
 5. Remove concrete sections and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
- B. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.
- C. Plaster to be Removed: Remove existing plaster at areas to be replaced in locations indicated in the Drawings.

3.7 SELECTIVE DEMOLITION OF HISTORIC STONE UNITS

- A. Identification: Contractor shall use the unique Identification (ID) Number as shown in the Drawings assigned to each stone to be removed. The Identification Number shall be affixed to the back side of the stone unit in a manner that will not become loose, damaged, or debonded from the unit prior to installation.
- B. Cataloging: Contractor shall maintain the log of all stone units removed developed during Phase I of the project, including those removed during this phase of the project and the catalog sheets from the Phase-1 project, as accordance with Section 04 03 50 "Historic Unit Masonry."

3.8 STORAGE OF SALVAGED MATERIALS, GENERAL

- A. Properly and securely store all salvaged material on site within the Laydown area.
- B. Salvaged materials shall not be stored or permitted on the building structure. Promptly remove salvaged materials and transport them to their designated storage area in a manner to protect them from damage.
- C. Store salvaged materials separately from new materials to prevent intermixing.
- D. Salvaged materials shall be stored, lifted off the ground, and covered in order to protect them from moisture or damage.

3.9 HANDLING, TRANSPORTATION, AND STORAGE OF STONE UNITS

- A. General: Handle, transport, and store stone units in accordance with recommendations in the *BSI Recommended Best Practices*, *ILIA Indiana Limestone Handbook*, *NSI Dimension Stone Design Manual*, and this Section.
- B. Location: Individual stone units shall be stored within the laydown area at the predetermined locations indicated in the approved Site Shop Drawings.
 - 1. A minimum of 24 inches clear space shall be maintained around each unit to permit full access to the units for historic treatment and repairs during the Phase-2 work. The clear spaces of adjacent stones shall be permitted to overlap.
 - 2. Stone units shall be stored in a single layer and oriented such that their Identification Number can be clearly read from the Temporary Access Drive. Stone units shall not be stacked.
 - 3. Salvaged stone shall be stored separately and away from other construction materials, construction waste, and temporary facilities.
- C. Stone units are to be stored in manner that prevents staining from occurring on the unit surfaces.
 - 1. Stone units shall be stored a minimum of 5 inches above the ground on non-staining skids.
 - a. Acceptable wood species for skids include cypress, white pine, poplar, or yellow pine without any excessive amount of resin. Do not use chestnut, walnut, oak, fir, and other wood containing tannin.
 - b. Chemically treated wood shall not be used for skids.
 - 2. Stone shall be covered to prevent staining from plant litter, animal refuse, mud splatter, and other potential staining sources.

3.10 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove demolition waste materials from Project site [and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.] [and recycle or dispose of them according to 01 74 00 “Cleaning and Waste Management.”]
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
 - 4. Comply with requirements specified in 01 74 00 “Cleaning and Waste Management.”
- B. Burning: Do not burn demolished materials.

3.11 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 02 41 19

SECTION 03 01 30
CONCRETE REPAIR

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Concrete crack repairs
 - 2. Concrete patch repairs
- B. Related Sections:
 - 1. Section 03 01 30.1 “FRCM Concrete Repair (Bid Alternate 1)”

1.3 REFERENCES

- A. ACI 549.4R-20: “Guide to Design and Construction of Externally Bonded Fabric-Reinforced Cementitious Matrix and Steel-Reinforced Grout Systems for Repair and Strengthening of Concrete Structures”
- B. ASTM C109/C109M-21: “Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens)”
- C. ASTM C157/C157M-17: “Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete”
- D. ASTM C881/C881M-20a: “Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete”
- E. ASTM C882/C882M-20: “Standard Test Method for Bond Strength of Epoxy-Resin Systems Used With Concrete by Slant Shear”
- F. ASTM C928-20a: “Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs”
- G. ASTM C938-19: “Standard Practice for Proportioning Grout Mixtures for Preplaced-Aggregate Concrete”

- H. ASTM C1059/C1059M-21: “Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete”
- I. ICC AC434-20: “Acceptance Criteria for Masonry and Concrete Strengthening Using Fiber-Reinforced Cementitious Matrix (FRCM) Composite Systems”

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct preinstallation conference on concrete repair at Project site.
 - 1. Attendees shall include:
 - a. Representative for the GSD.
 - b. Engineer’s Project Manager.
 - c. Contractor’s Project Manager.
 - d. Contractor’s Superintendent.
 - e. Foreman for the concrete repair subcontractor.
 - 2. Conference Agenda: Review methods and procedures related to concrete repair including, but not limited to, the following:
 - a. Verify concrete-maintenance contractor's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Materials, material application, sequencing, tolerances, and required clearances.
 - c. Quality-control program.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include material descriptions, chemical composition, physical properties, test data, and mixing, preparation, and application instructions.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For concrete-repair contractor and manufacturers.
- B. Product Test Reports: For each manufactured bonding agent, cementitious patching mortar, and crack-injection adhesive, for tests performed by manufacturer and witnessed by a qualified testing agency.
- C. Field quality-control reports.
- D. Quality-Control Program: Submit before work begins.

1.7 QUALITY ASSURANCE

- A. **Manufacturer Qualifications:** Each manufactured bonding agent, cementitious patching mortar, and crack-injection adhesive manufacturer shall employ factory-authorized service representatives who are available for consultation and Project-site inspection and on-site assistance.
- B. **Concrete-Repair Contractor Qualifications:** Engage an experienced concrete-maintenance firm that employs installers and supervisors who are trained and approved by manufacturer to apply, cementitious patching mortar, and crack-injection adhesive to perform work of this Section. Firm shall have completed work similar in material, design, and extent to that indicated for this Project with a record of successful in-service performance. Experience in only installing or patching new concrete is insufficient experience for concrete-maintenance work.
 - 1. **Field Supervision:** Concrete-maintenance specialist firm shall maintain experienced full-time supervisors on Project site during times that concrete-maintenance work is in progress.
- C. **Quality-Control Program:** Prepare a written plan for concrete maintenance to systematically demonstrate the ability of personnel to properly perform maintenance work, including each phase or process, protection of surrounding materials during operations, and control of debris and runoff during the Work. Describe in detail materials, methods, equipment, and sequence of operations to be used for each phase of the Work.
- D. **In-Place Mockups:** The first execution of each repair type will constitute an in-place mockup. Perform mockups to demonstrate aesthetic effects and to set quality standards for materials and execution.
 - 1. **Concrete Removal and Patching:** Remove and repair an approximately 100 sq. in. area of deteriorated concrete slab soffit and deteriorated vertical surface.
 - 2. **Epoxy Crack Injection:** Perform epoxy crack injection in two separate areas
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Engineer specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's written instructions for minimum and maximum temperature requirements and other conditions for storage.
- B. Store cementitious materials off the ground, under cover, and in a dry location.
- C. Store aggregates covered and in a dry location; maintain grading and other required characteristics and prevent contamination.

1.9 FIELD CONDITIONS

- A. Environmental Limitations for Epoxies: Do not apply when air and substrate temperatures are outside limits permitted by manufacturer. During hot weather, cool epoxy components before mixing, store mixed products in shade, and cool unused mixed products to retard setting. Do not apply to wet substrates unless approved by manufacturer.
- B. Cold-Weather Requirements for Cementitious Materials: Do not apply unless concrete-surface and air temperatures are above 40 deg F and will remain so for at least 48 hours after completion of Work.
- C. Cold-Weather Requirements for Cementitious Materials: Comply with the following procedures:
 - 1. When air temperature is below 40 deg F, heat patching-material ingredients and existing concrete to produce temperatures between 40 and 90 deg F.
 - 2. When mean daily air temperature is between 25 and 40 deg F, cover completed Work with weather-resistant insulating blankets for 48 hours after repair or provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for 48 hours after repair.
 - 3. When mean daily air temperature is below 25 deg F, provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for 48 hours after repair.
- D. Hot-Weather Requirements for Cementitious Materials: Protect repair work when temperature and humidity conditions produce excessive evaporation of water from patching materials. Provide artificial shade and wind breaks, and use cooled materials as required. Do not apply to substrates with temperatures of 90 deg F and above.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: For repair products, obtain each color, grade, finish, type, and variety of product from single source and from single manufacturer with resources to provide products of consistent quality in appearance and physical properties.

2.2 BONDING AGENTS

- A. Latex Bonding Agent, Non-Redispersible: ASTM C1059/C1059M, Type II.

2.3 PATCHING MORTAR

- A. Patching Mortar Requirements:
 - 1. Only use patching mortars that are recommended by manufacturer for each applicable horizontal, vertical, or overhead use orientation.

- B. Polymer-Modified, Cementitious Patching Mortar: Packaged, dry mix for repair of concrete and that contains a latex additive as either a dry powder or a separate liquid that is added during mixing.
 - 1. Compressive Strength: 5000 psi minimum at 28 days when tested according to ASTM C109.
 - 2. Bond Strength: 2,000 psi minimum at 28 days when tested according to ASTM C882.
 - 3. Shrinkage: 0.05% maximum at 28 days of air storage when tested according to ASTM C157.

2.4 EPOXY CRACK-INJECTION MATERIALS

- A. Epoxy Crack-Injection Adhesive: ASTM C881/C881M, bonding system Type IV, free of VOCs.
 - 1. Capping Adhesive: Product manufactured for use with crack-injection adhesive by same manufacturer.
- B. Chemical Grout: Hydrophobic, nonflammable, low viscosity resin shall meet the following characteristics and properties:
 - 1. Properties of the mixed polyurethane chemical grout.
 - a. Mixed Viscosity 450 - 850 cps ASTM D- 2196 A
 - b. Flash point 270F
 - c. Density 8.7 – 9.2 lbs./gal. ASTM D 3754- 95
 - d. Corrosiveness non-corrosive
 - 2. Properties of the cured polyurethane chemical grout.
 - a. Tensile Strength 150 psi ASTM D-190-63
 - b. Elongation 250%
 - c. Absorption 10% After 6 months immersion
 - d. Shrinkage Less than 4% ASTM D-1042
 - e. Density 8.70 – 9.17 lbs./gal ASTM D3574
- C. Injection packers as required for the application of the polyurethane chemical grout.
- D. Open cell backer rod of appropriate size for the encountered joints.
- E. Accelerator: Accelerator for hydrophobic chemical grout. Use as directed by Manufacturer's recommendations.
- F. Surface Seal: Material with adequate strength and adhesion to hold injection fittings firmly in place and to prevent leakage of chemical grout during injection and removable without damaging or defacing structure being repaired.

2.5 MISCELLANEOUS MATERIALS

- A. Water: Potable.

2.6 MIXES

- A. General: Mix products, in clean containers, according to manufacturer's written instructions.
 - 1. Do not add water, thinners, or additives unless recommended by manufacturer.
 - 2. When practical, use manufacturer's premeasured packages to ensure that materials are mixed in proper proportions. When premeasured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovel or trowel as unit of measure.
 - 3. Do not mix more materials than can be used within time limits recommended by manufacturer. Discard materials that have begun to set.

PART 3 - EXECUTION

3.1 CONCRETE REPAIRS

- A. Have concrete-maintenance work performed only by qualified concrete-maintenance specialist.
- B. Comply with manufacturers' written instructions for surface preparation and product application.

3.2 EXAMINATION

- A. Notify Engineer seven days in advance of dates when areas of deteriorated or delaminated concrete and deteriorated reinforcing bars will be located.
- B. Locate areas of deteriorated or delaminated concrete using hammer or chain-drag sounding and mark boundaries. Mark areas for removal by simplifying and squaring off boundaries. At columns and walls make boundaries level and plumb unless otherwise indicated.
- C. Pachometer Testing: Locate at least three reinforcing bars using a pachometer, and drill test holes to determine depth of cover. Calibrate pachometer using depth of cover measurements, and verify depth of cover in removal areas using pachometer.
- D. Perform surveys as the Work progresses to detect hazards resulting from concrete-maintenance work.

3.3 PREPARATION

- A. Ensure that supervisory personnel are on-site and on duty when concrete maintenance work begins and during its progress.
- B. Protect persons, motor vehicles, surrounding surfaces of building being repaired, building site, plants, and surrounding buildings from harm resulting from concrete maintenance work.
 - 1. All concrete removal for patch repairs will be undertaken on the interior of the Capitol and as such additional measures will be necessary to limit noise, vibration and to collect debris and water to prevent impact to existing building and operations.

2. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.
 3. Use only proven protection methods appropriate to each area and surface being protected.
 4. Contain dust and debris generated by concrete maintenance work and prevent it from reaching the public or adjacent surfaces.
 5. Use water-mist sprinkling and other wet methods to control dust only with adequate, approved procedures and equipment that ensure that such water will not create a hazard or adversely affect other building areas or materials.
 6. Protect floors and other surfaces along haul routes from damage, wear, and staining.
 7. Provide supplemental sound-control treatment to isolate removal and dismantling work from other areas of the building.
 8. Protect adjacent surfaces and equipment by covering them with heavy polyethylene film and waterproof masking tape. If practical, remove items, store, and reinstall after potentially damaging operations are complete.
 9. Neutralize and collect alkaline and acid wastes for disposal off GSD's property.
 10. Dispose of debris and runoff from operations by legal means and in a manner that prevents soil erosion, undermining of paving and foundations, damage to landscaping, and water penetration into building interiors.
 11. Prevent solids such as aggregate or mortar residue from entering the drainage system. Clean out drains and drain lines that become sluggish or blocked by sand or other materials resulting from concrete maintenance work.
 12. Protect drains from pollutants. Block drains or filter out sediments, allowing only clean water to pass.
- C. Preparation for Concrete Removal: Examine construction to be repaired to determine best methods to safely and effectively perform concrete maintenance work. Examine adjacent work to determine what protective measures will be necessary. Make explorations, probes, and inquiries as necessary to determine condition of construction to be removed in the course of repair.
1. Verify that affected utilities have been disconnected and capped.
 2. Inventory and record the condition of items to be removed for reinstallation or salvage.
 3. Provide and maintain shoring, bracing, and temporary structural supports as required to preserve stability and prevent unexpected or uncontrolled movement, settlement, or collapse of construction being demolished and construction and finishes to remain. Strengthen or add new supports when required during progress of removal work.
- D. Reinforcing-Bar Preparation: Remove loose and flaking rust from exposed reinforcing bars by wire brushing until only tightly adhered light rust remains.
1. Where section loss of reinforcing bar is more than 25 percent, or 20 percent in two or more adjacent bars, notify Engineer immediately.
 2. Remove additional concrete as necessary to provide at least 3/4-inch clearance at existing and replacement bars.
 3. Where indicated by the Engineer, splice replacement bars to existing bars according to ACI 318 by lapping, welding, or using mechanical couplings.
 4. Use sand blasting.
- E. Surface Preparation for Patch Repairs and FRCM Application: Prepare concrete surfaces in accordance with ACI 549.4R Section 7.4 guidelines.

1. Remove delaminated material and deteriorated concrete surface material.
2. Roughen surface of concrete to produce a surface profile matching CSP 3–5 according to ICRI 310.2 using sand blasting. Additional temporary protection measures will be necessary to facilitate and capture sand blasting on interior of building.
3. Sweep and vacuum roughened surface to remove debris.

3.4 REMOVAL OF CONCRETE

- A. Do not overload structural elements with debris.
- B. Saw-cut perimeter of areas indicated for removal to a depth of at least 1/2 inch but no deeper than cover on reinforcement. Slightly incline cuts from concrete surfaces to key edges of patch material into substrate.
- C. Remove deteriorated and delaminated concrete by breaking up and dislodging from reinforcement.
- D. Remove additional concrete if necessary to provide a depth of removal of at least 1/2 inch over entire removal area.
- E. Where half or more of the perimeter of reinforcing bar is exposed, bond between reinforcing bar and surrounding concrete is broken, or reinforcing bar is corroded, remove concrete from entire perimeter of bar and to provide at least 3/4-inch clearance around bar.
- F. Test areas where concrete has been removed by tapping with hammer, and remove additional concrete until unsound and delaminated concrete is completely removed.
- G. Provide surfaces with a fractured profile of at least 1/8 inch that are approximately perpendicular or parallel to original concrete surfaces. At columns and walls, make top and bottom surfaces level unless otherwise directed.
- H. Thoroughly clean removal areas of loose concrete, dust, and debris.

3.5 APPLICATION OF BONDING AGENT

- A. Latex Bonding Agent, Type II: Mix with portland cement and scrub into concrete surface according to manufacturer's written instructions. Place patching mortar or concrete while bonding agent is still wet. If bonding agent dries, recoat before placing patching mortar or concrete.

3.6 INSTALLATION OF PATCHING MORTAR

- A. Place patching mortar as specified in this article unless otherwise recommended in writing by manufacturer.
 1. Provide forms where necessary to confine patch to required shape.
 2. Wet substrate and forms thoroughly and then remove standing water.
- B. Pretreatment: Apply specified bonding agent.

- C. General Placement: Place patching mortar by troweling toward edges of patch to force intimate contact with edge surfaces. For large patches, fill edges first and then work toward center, always troweling toward edges of patch. At fully exposed reinforcing bars, force patching mortar to fill space behind bars by compacting with trowel from sides of bars.
- D. Place material in lifts of not more than that recommended in writing by manufacturer.
- E. Consolidation: After each lift is placed, consolidate material and screed surface.
- F. Multiple Lifts: Where multiple lifts are used, score surface of lifts to provide a rough surface for placing subsequent lifts. Allow each lift to reach final set before placing subsequent lifts.
- G. Finishing: Allow surfaces of lifts that are to remain exposed to become firm and then finish to a surface matching adjacent concrete.
- H. Curing: Wet-cure cementitious patching materials, including polymer-modified cementitious patching materials, for not less than seven days by water-fog spray or water-saturated absorptive cover.

3.7 CRACK INJECTION REPAIRS

- A. Set up and check injection equipment and material in accordance with the manufacturer's instructions and as specified.
- B. Flush the drilled holes with water to remove debris and drill dust from the holes, cracks, and joints. This will also insure that the crack and the joint are wet enough to react with the chemical grout when it is introduced.
- C. Injection pressure will vary from 200 psi to 2500 psi depending on the width of the crack and joint, thickness of the concrete and condition of the concrete.
- D. Inject the prepared cracks and joints with a minimum of 250 psi in order to achieve maximum filling and penetration without the inclusion of air pockets or voids in the polyurethane chemical grout. Begin the pressure injection at the lowest packer and continue until there is the appearance of the chemical grout at an adjacent packer, thus indicating travel. When travel is indicated, a decision to discontinue or continue the pressure injection from that packer should be made by the Contractor, based on his experience, with the approval of the Engineer. Continue the procedure until all pressure-injectable cracks and joints have been filled. For horizontal cracks and joints, proceed from one end of the crack or joint to the other end in the same manner. Seal the last port and allow the chemical grout to cure.
- E. If penetration of any cracks and joints is impossible, consult the Engineer before discontinuing the injection procedure. If modification of the proposed procedure is required to fill the cracks and joints, submit said modification in writing to the engineer for acceptance prior to proceeding.
- F. Adhere to all limitations and cautions for the chemical grout as stated in the manufacturers recommendations.

- G. Monitor the resin to water ratio recommended by the manufacturer is maintained within tolerance. Periodically samples shall be extracted to monitor the injection and act as a control sample.
- H. Upon completion of the initial pass, sufficient reaction and curing time for the injected resin is allowed by monitoring the control sample. If leaks are identified within the previous pass, re-inject the leaking crack and joint. The Contractor shall not be compensated for re-injecting leaking cracks and joints. Report abnormal conditions (if any) immediately to the GSD.
- I. Remove surface seal and entry port fittings when chemical grout has been successful with stopping the active leaks.
- J. Fill the face of the crack and joint out flush with the concrete surface plane with patching materials. Eliminate indentations and evidence of port fittings. Finish patches to match texture of adjoining concrete surface as closely as practicable.

3.8 FIELD QUALITY CONTROL

- A. Testing Agency: GSD will engage a qualified testing agency to perform tests and inspections.
- B. Perform the following tests and inspections:
 - 1. Packaged, Cementitious Patching Mortar: Five (5) randomly selected sets of samples for each type of mortar required, tested according to ASTM C928.
 - 2. Epoxy Crack Injection: Core-drilled samples to verify proper installation.
 - a. Testing Frequency: Three samples from mockup and one sample for each 100 feet of crack injected.
 - b. Where samples are taken, refill holes with epoxy mortar.
- C. Product will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.
- E. Manufacturers Field Service: Engage manufacturers' factory-authorized service representatives for consultation and Project-site inspection and to provide on-site assistance when requested by Engineer.
 - 1. Have manufacturers' factory-authorized service representatives perform the following number of Project-site inspections to observe progress and quality of the Work, distributed over the period of product installation, regardless of on-site assistance requested by Engineer:
 - a. Bonding-Agent and Packaged Patching-Mortar Installation: Three inspections.
 - b. Crack-Injection-Adhesive Preparation and Installation: Four inspections.

END OF SECTION 03 01 30

SECTION 03 01 30.1

FRCM CONCRETE REPAIRS (BID ALTERNATE 1)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Surface-applied FRCM repairs (Bid Alternate 1)
- B. Related Sections:
 - 1. Section 03 01 30 “Concrete Repair”

1.3 REFERENCES

- A. ACI 549.4R-20: “Guide to Design and Construction of Externally Bonded Fabric-Reinforced Cementitious Matrix and Steel-Reinforced Grout Systems for Repair and Strengthening of Concrete Structures”
- B. ASTM C109/C109M-21: “Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens)”
- C. ASTM C881/C881M-20a: “Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete”
- D. ASTM C928-20a: “Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs”
- E. ASTM C938-19: “Standard Practice for Proportioning Grout Mixtures for Preplaced-Aggregate Concrete”
- F. ASTM C1059/C1059M-21: “Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete”
- G. ASTM C1583/C1583M-20: “Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)”

- H. ICC AC434-20: “Acceptance Criteria for Masonry and Concrete Strengthening Using Fiber-Reinforced Cementitious Matrix (FRCM) Composite Systems”

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct preinstallation conference on concrete repair at Project site.
 - 1. Attendees shall include:
 - a. Representative for the GSD.
 - b. Engineer’s Project Manager.
 - c. Contractor’s Project Manager.
 - d. Contractor’s Superintendent.
 - e. Foreman for the concrete repair subcontractor.
 - 2. Conference Agenda: Review methods and procedures related to concrete repair including, but not limited to, the following:
 - a. Verify concrete-maintenance contractor's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Materials, material application, sequencing, tolerances, and required clearances.
 - c. Quality-control program.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include material descriptions, chemical composition, physical properties, test data, and mixing, preparation, and application instructions.
- B. Samples:
 - 1. Two 12 inch by 12 inch samples of FRCM fabric.
 - 2. Two 8-inch-long samples of fiber joint connectors.

1.6 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: For FRCM system, for tests performed by manufacturer and witnessed by a qualified testing agency.
- B. ICC Evaluation Services Reports for FRCM system in accordance with ICC AC434.
- C. Field quality-control reports.
- D. Quality-Control Program: Submit before work begins.

1.7 QUALITY ASSURANCE

- A. **Manufacturer Qualifications:** Each FRCM system manufacturer shall employ factory-authorized service representatives who are available for consultation and Project-site inspection and on-site assistance.
- B. **Concrete-Repair Contractor Qualifications:** Engage an experienced concrete-maintenance firm that employs installers and supervisors who are trained and approved by manufacturer to apply FRCM system to perform work of this Section. Firm shall have completed work similar in material, design, and extent to that indicated for this Project with a record of successful in-service performance. Experience in only installing or patching new concrete is insufficient experience for concrete-maintenance work.
 - 1. **Field Supervision:** Concrete-maintenance specialist firm shall maintain experienced full-time supervisors on Project site during times that concrete-maintenance work is in progress.
- C. **Quality-Control Program:** Prepare a written plan for concrete maintenance to systematically demonstrate the ability of personnel to properly perform maintenance work, including each phase or process, protection of surrounding materials during operations, and control of debris and runoff during the Work. Describe in detail materials, methods, equipment, and sequence of operations to be used for each phase of the Work.
- D. **In-Place Mockups:** The first execution of each repair type will constitute an in-place mockup. Perform mockups to demonstrate aesthetic effects and to set quality standards for materials and execution.
 - 1. **FRCM:** Apply composite structural reinforcement to a 3 ft-wide section one span in length. Mockup shall demonstrate both mesh installation and fiber joint connector installation.
 - 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Engineer specifically approves such deviations in writing.
 - 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's written instructions for minimum and maximum temperature requirements and other conditions for storage.
- B. Store cementitious materials off the ground, under cover, and in a dry location.
- C. Store aggregates covered and in a dry location; maintain grading and other required characteristics and prevent contamination.

1.9 FIELD CONDITIONS

- A. Cold-Weather Requirements for Cementitious Materials: Do not apply unless concrete-surface and air temperatures are above 40 deg F and will remain so for at least 48 hours after completion of Work.
- B. Cold-Weather Requirements for Cementitious Materials: Comply with the following procedures:
 - 1. When air temperature is below 40 deg F, heat patching-material ingredients and existing concrete to produce temperatures between 40 and 90 deg F.
 - 2. When mean daily air temperature is between 25 and 40 deg F, cover completed Work with weather-resistant insulating blankets for 48 hours after repair or provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for 48 hours after repair.
 - 3. When mean daily air temperature is below 25 deg F, provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for 48 hours after repair.
- C. Hot-Weather Requirements for Cementitious Materials: Protect repair work when temperature and humidity conditions produce excessive evaporation of water from patching materials. Provide artificial shade and wind breaks, and use cooled materials as required. Do not apply to substrates with temperatures of 90 deg F and above.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: For repair products, obtain each color, grade, finish, type, and variety of product from single source and from single manufacturer with resources to provide products of consistent quality in appearance and physical properties.

2.2 FIBER REINFORCED CEMENTITIOUS MATRIX

- A. System Description: Manufacturer's system consisting of externally bonded fabric-reinforced cementitious matrix (FRCM) composite systems applied to concrete and masonry substrates. The systems consist of either carbon or polyparaphenylene benzobisoxazole (PBO) fabrics, with cementitious matrices (epoxy-free) which, in combination, create the FRCM composite system.
- B. PBO Fabric: A PBO fiber fabric with an unbalanced network made of fibers.
 - 1. Geometry: 0.394 and 0.747 inch-spaced fiber rovings, where the primary direction has the spaced fiber rovings at 0.394 inch. The free space between rovings is roughly 0.197 and 0.591 inch in the primary and secondary directions, respectively, and the nominal thickness in the two fiber directions is 0.02 inch in the primary direction and 0.0004 inch in the secondary direction.
 - 2. Physical Properties:
 - a. Minimum Effective Tensile Strength: 220 ksi

- b. Ultimate tensile strain: Limited at 1.20 percent per ACI 549.4R.
 - c. Minimum Cracked Modulus of Elasticity For Design Purposes: 18,500 ksi
 - d. Minimum Fabric Area by Unit Width: 0.0020 in.2/in.
- 3. Basis of Design: PBO-MESH GOLD 70/18 by Ruregold.
- C. Inorganic Cementitious Matrix for Fabric: An inorganic cementitious matrix for concrete flexural and shearing stress reinforcement certified for use with PBO fabrics.
 - 1. Compressive strength: 5,500 psi minimum at 28 days
 - 2. Flexural Strength: 550 psi minimum at 28 days
 - 3. Elastic Modulus: 2,150 ksi minimum at 28 days
 - 4. Bond Strength to Concrete Surface: 200psi minimum
 - 5. Basis of Design: PBO-MX GOLD Concrete by Ruregold.
- D. Fiber Connector: FRCM system manufacturer's recommended fiber connector, consisting of a bundle of continuous parallel PBO fibers or strands gathered within a tubular elastic net made of polyester, polyamide and latex fibers. The net can be extended both longitudinally and transversely and can be removed. The bundle of fibers becomes rigid when it is impregnated with an appropriate inorganic cementitious matrix, and is inserted into a specially made hole in the masonry and/or reinforced concrete structural element.
 - 1. Basis of Design: 6mm PBO-JOINT by Ruregold.
- E. Inorganic Cementitious Matrix for Fiber Connector: Joint connector manufacturer's recommended cementitious matrix for embedment and installation of fiber connectors.
 - 1. Compressive strength: 5,500 psi minimum at 28 days
 - 2. Flexural Strength: 400 psi minimum at 28 days
 - 3. Elastic Modulus: 2,600 ksi minimum at 28 days
 - 4. Minimum Bond Strength to Substrate: 200psi
 - 5. Basis of Design: MX-JOINT by Ruregold.

2.3 MISCELLANEOUS MATERIALS

- A. Water: Potable.

2.4 MIXES

- A. General: Mix products, in clean containers, according to manufacturer's written instructions.
 - 1. Do not add water, thinners, or additives unless recommended by manufacturer.
 - 2. When practical, use manufacturer's premeasured packages to ensure that materials are mixed in proper proportions. When premeasured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovel or trowel as unit of measure.
 - 3. Do not mix more materials than can be used within time limits recommended by manufacturer. Discard materials that have begun to set.

PART 3 - EXECUTION

3.1 CONCRETE REPAIRS

- A. Have concrete-maintenance work performed only by qualified concrete-maintenance specialist.
- B. Comply with manufacturers' written instructions for surface preparation and product application.

3.2 EXAMINATION

- A. Notify Engineer seven days in advance of dates when areas of deteriorated or delaminated concrete and deteriorated reinforcing bars will be located.
- B. Locate areas of deteriorated or delaminated concrete using hammer or chain-drag sounding and mark boundaries. Mark areas for removal by simplifying and squaring off boundaries. At columns and walls make boundaries level and plumb unless otherwise indicated.
- C. Pachometer Testing: Locate at least three reinforcing bars using a pachometer, and drill test holes to determine depth of cover. Calibrate pachometer using depth of cover measurements, and verify depth of cover in removal areas using pachometer.
- D. Perform surveys as the Work progresses to detect hazards resulting from concrete-maintenance work.

3.3 PREPARATION

- A. Ensure that supervisory personnel are on-site and on duty when concrete maintenance work begins and during its progress.
- B. Protect persons, motor vehicles, surrounding surfaces of building being repaired, building site, plants, and surrounding buildings from harm resulting from concrete maintenance work.
 - 1. All concrete removal for patch repairs will be undertaken on the interior of the Capitol and as such additional measures will be necessary to limit noise, vibration and to collect debris and water to prevent impact to existing building and operations.
 - 2. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.
 - 3. Use only proven protection methods appropriate to each area and surface being protected.
 - 4. Contain dust and debris generated by concrete maintenance work and prevent it from reaching the public or adjacent surfaces.
 - 5. Use water-mist sprinkling and other wet methods to control dust only with adequate, approved procedures and equipment that ensure that such water will not create a hazard or adversely affect other building areas or materials.
 - 6. Protect floors and other surfaces along haul routes from damage, wear, and staining.
 - 7. Provide supplemental sound-control treatment to isolate removal and dismantling work from other areas of the building.

8. Protect adjacent surfaces and equipment by covering them with heavy polyethylene film and waterproof masking tape. If practical, remove items, store, and reinstall after potentially damaging operations are complete.
 9. Neutralize and collect alkaline and acid wastes for disposal off GSD's property.
 10. Dispose of debris and runoff from operations by legal means and in a manner that prevents soil erosion, undermining of paving and foundations, damage to landscaping, and water penetration into building interiors.
 11. Prevent solids such as aggregate or mortar residue from entering the drainage system. Clean out drains and drain lines that become sluggish or blocked by sand or other materials resulting from concrete maintenance work.
 12. Protect drains from pollutants. Block drains or filter out sediments, allowing only clean water to pass.
- C. Surface Preparation for FRCM Application: Prepare concrete surfaces in accordance with ACI 549.4R Section 7.4 guidelines.
1. Remove delaminated material and deteriorated concrete surface material and perform patch repairs in accordance with Section 03 01 30 "Concrete Repair."
 2. Roughen surface of concrete to produce a surface profile matching CSP 3–5 according to ICRI 310.2 using sand blasting. Additional temporary protection measures will be necessary to facilitate and capture sand blasting on interior of building.
 3. Sweep and vacuum roughened surface to remove debris.

3.4 INSTALLATION OF FRCM SYSTEM

- A. FRCM installation shall be performed in accordance with Manufacturer's written instructions, ACI 549.4R, and the Evaluation Services Report.
- B. Commence installation after concrete substrate preparation has been observed and approved by the Engineer.
- C. Fabric Installation:
1. Pre-cut the fabric to the appropriate dimensions of the work area.
 2. Mix sufficient quantity of cementitious matrix for the active installation area in accordance manufacturer's written instructions.
 3. Wet the concrete surface with water. Surface shall be in saturated-surface-dry condition.
 4. For first layer, apply a layer of the cementitious matrix directly to the surface of the structural member being strengthened uniformly with a thickness of 0.12 to 0.16 inch.
 5. While the cementitious matrix is still wet, lay the pre-cut fabric with the appropriate fiber orientation over the first cementitious matrix layer and gently press the fabric into the cementitious matrix with the flat surface of a trowel or similar tool to embed the fabric in the matrix.
 6. Apply a second layer of cementitious matrix uniformly over the mesh using a trowel to a thickness of 0.12 to 0.16 inch.
 7. Apply each successive layer of fabric and cementitious matrix uniformly with a thickness of 0.12 to 0.16 inch before the complete cure of the previous layer of cementitious matrix.
 8. At junction point and edges, overlap the mesh a minimum of 4 inches onto the previous section while the mortar is still wet.

D. Fiber Connector Installation:

1. Perform fiber connector installation only after the cementitious matrix has completely hardened.
2. Drill holes in concrete support as indicated in the Drawings.
3. Eliminate dust and incoherent parts from inside the hole using compressed air.
4. Cut fiber connector sections to length.
5. Mix cementitious matrix in accordance with manufacturer's written instructions.
6. Extract the portion of fiber connector that is to be embedded from elastic tubular net and impregnate the fibers with a fluid mix of cementitious matrix. Remove excess matrix mortar, and reshape impregnated portion back into cylindrical shape, and reposition tubular net over impregnated portion.
7. Fill the hole with cementitious matrix, beginning at the bottom of the hole and filling to the surface, being sure not to leave any voids.
8. After impregnated portion has hardened sufficiently to maneuver inside of hole by before set, insert the impregnated portion of the fiber connector into the hole at least 60% of the hole depth.
9. Remove the elastic tubular net from the section of joint connector protruding from the hole.
10. Apply a first layer of matrix approximately 0.12 to 0.16 inches in thickness around the hole into which the impregnated portion of the fiber connector was inserted.
11. Fan out the bundle of fibers of the part of the joint connector that is protruding from the hole and then, using a smooth metal spatula and applying light pressure, push the fibers into the first layer of matrix, being sure that all fibers are embedded into the matrix.
12. While the first layer of matrix is still wet, apply a second layer of matrix approximately 0.12 to 0.16 inches in thickness onto the fanned-out fibers to completely encapsulate the previously fanned-out portion of the connector.

3.5 FIELD QUALITY CONTROL

- A. Testing Agency: GSD will engage a qualified testing agency to perform tests and inspections.
- B. Perform the following tests and inspections:
1. Packaged, Cementitious Matrix: Five (5) randomly selected sets of samples for each type of mortar required, tested according to ASTM C928.
 2. Pull-off Bond Testing: Five (5) randomly selected sets of three (3) samples each, tested in accordance with ASTM C1583.
- C. Product will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.
- E. Manufacturers Field Service: Engage manufacturers' factory-authorized service representatives for consultation and Project-site inspection and to provide on-site assistance when requested by Engineer.
1. Have manufacturers' factory-authorized service representatives perform the following number of Project-site inspections to observe progress and quality of the Work,

distributed over the period of product installation, regardless of on-site assistance requested by Engineer:

- a. FRCM Application: Three inspections.

END OF SECTION 03 01 30.1

SECTION 03 10 00

CONCRETE FORMING AND ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Form-facing material for cast-in-place concrete.
2. Form liners.
3. Shoring, bracing, and anchoring.

B. Related Requirements:

1. Section 03 20 00 – “Concrete Reinforcing”
2. Section 03 30 00 – “Cast-In-Place Concrete”

1.2 REFERENCES

- A. ACI 301-20 "Specifications for Concrete Construction"
- B. ASTM C1107-20 "Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)"
- C. ASTM E329-21 "Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection"
- D. ACI 117-10 "Specification for Tolerances for Concrete Construction and Materials and Commentary"
- E. ACI 318-14 "Building Code Requirements for Structural Concrete"

1.3 DEFINITIONS

- A. Form-Facing Material: Temporary structure or mold for the support of concrete while the concrete is setting and gaining sufficient strength to be self-supporting.
- B. Formwork: The total system of support of freshly placed concrete, including the mold or sheathing that contacts the concrete, as well as supporting members, hardware, and necessary bracing.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1. Review the following:
 - a. Special inspection and testing and inspecting agency procedures for field quality control.
 - b. Construction, movement, contraction, and isolation joints
 - c. Forms and form-removal limitations.
 - d. Shoring and reshoring procedures.
 - e. Anchor rod and anchorage device installation tolerances.

1.5 ACTION SUBMITTALS

- A. Product Data: For each of the following:
 1. Exposed surface form-facing material.
 2. Concealed surface form-facing material.
 3. Void forms.
 4. Form ties.
 5. Waterstops.
 6. Form-release agent.
- B. Shop Drawings: Prepared by, and signed and sealed by, a licensed engineer in the State of West Virginia. responsible for their preparation, detailing fabrication, assembly, and support of forms.
 1. For exposed vertical concrete walls, indicate dimensions and form tie locations.
 2. Indicate location of waterstops.
 3. Indicate proposed schedule and sequence of stripping of forms, shoring removal, and reshoring installation and removal.
- C. Samples:
 1. For waterstops.

1.6 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.
- B. Minutes of preinstallation conference.

1.7 QUALITY ASSURANCE

- A. Testing and Inspection Agency Qualifications: An independent agency, acceptable to the GSD and Engineer, qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.
- B. Mockups: Formed surfaces to demonstrate typical joints, surface finish, texture, tolerances, and standard of workmanship.
 1. Build panel approximately 100 sq. ft. in the location indicated or, if not indicated, as directed by Engineer.

2. Subject to compliance with requirements, approved mockups may become part of the completed Work.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Form Liners: Store form liners under cover to protect from sunlight.
- B. Waterstops: Store waterstops under cover to protect from moisture, sunlight, dirt, oil, and other contaminants.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Concrete Formwork: Design, engineer, erect, shore, brace, and maintain formwork, shores, and reshores in accordance with ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads, so that resulting concrete conforms to the required shapes, lines, and dimensions.
 1. Design wood panel forms in accordance with APA's "Concrete Forming Design/Construction Guide."
 2. Design formwork to limit deflection of form-facing material to 1/240 of center-to-center spacing of supports.

2.2 FORM-FACING MATERIALS

- A. As-Cast Surface Form-Facing Material:
 1. Provide continuous, true, and smooth concrete surfaces.
 2. Furnish in largest practicable sizes to minimize number of joints.
 3. Acceptable Materials: As required to comply with Surface Finish designations specified in Section 03 30 00 "Cast-In-Place Concrete," and as follows:
 - a. Plywood, metal, or other approved panel materials.
 - b. Exterior-grade plywood panels, suitable for concrete forms, complying with DOC PS 1, and as follows:
 - 1) APA HDO (high-density overlay).
- B. Concealed Surface Form-Facing Material: Lumber, plywood, metal, plastic, or another approved material.
 1. Provide lumber dressed on at least two edges and one side for tight fit.
- C. Void Forms: Biodegradable paper surface, treated for moisture resistance, structurally sufficient to support weight of plastic concrete and other superimposed loads.
 1. Provide void forms over grade at underside of side stairs.

2.3 WATERSTOPS

- A. Self-Expanding Rubber Strip Waterstops: Manufactured rectangular or trapezoidal strip, bentonite-free hydrophilic polymer-modified chloroprene rubber, for adhesive bonding to concrete, 3/8 by 3/4 inch.

2.4 RELATED MATERIALS

- A. Chamfer Strips: Wood, metal, PVC, or rubber strips, 3/4 by 3/4 inch, minimum, but not smaller than indicated in the Drawings.
- B. Form-Release Agent: Commercially formulated form-release agent that does not bond with, stain, or adversely affect concrete surfaces and does not impair subsequent treatments of concrete surfaces.
 - 1. Formulate form-release agent with rust inhibitor for steel form-facing materials.
 - 2. Form release agent for form liners shall be acceptable to form liner manufacturer.

PART 3 - EXECUTION

3.1 INSTALLATION OF FORMWORK

- A. Comply with ACI 301.
- B. Construct formwork, so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117 and to comply with the Surface Finish designations specified in Section 03 30 00 "Cast-In-Place Concrete" for as-cast finishes.
- C. Limit concrete surface irregularities as follows:
 - 1. Surface Finish-3.0: ACI 117 Class A, 1/8 inch.
- D. Construct forms tight enough to prevent loss of concrete mortar.
 - 1. Minimize joints.
 - 2. Exposed Concrete: Symmetrically align joints in forms.
- E. Construct removable forms for easy removal without hammering or prying against concrete surfaces.
 - 1. Provide crush or wrecking plates where stripping may damage cast-concrete surfaces.
 - 2. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.
- F. Do not use rust-stained, steel, form-facing material.
- G. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces.

1. Provide and secure units to support screed strips
 2. Use strike-off templates or compacting-type screeds.
- H. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible.
1. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar.
 2. Locate temporary openings in forms at inconspicuous locations.
- I. Chamfer exterior corners and edges of permanently exposed concrete.
- J. At construction joints, overlap forms onto previously placed concrete not less than 12 inches.
- K. Construction Joints:
1. Construct joints true to line with faces perpendicular to surface plane of concrete.
 2. Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Engineer.
 3. Place joints perpendicular to main reinforcement.
 4. Locate joints for upper flight as indicated in the Drawings.
- L. Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection.
1. Locate ports and openings in bottom of vertical forms, in inconspicuous location, to allow flushing water to drain.
 2. Close temporary ports and openings with tight-fitting panels, flush with inside face of form, and neatly fitted, so joints will not be apparent in exposed concrete surfaces.
- M. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.
- N. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.
- O. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

3.2 INSTALLATION OF WATERSTOPS

- A. Self-Expanding Strip Waterstops: Install in construction joints and at other locations indicated on Drawings, according to manufacturer's written instructions, by adhesive bonding, mechanically fastening, and firmly pressing into place.
1. Install in longest lengths practicable.
 2. Locate waterstops in center of joint unless otherwise indicated on Drawings.
 3. Protect exposed waterstops during progress of the Work.

3.3 REMOVING AND REUSING FORMS

- A. Leave formwork in place until concrete has achieved at least 70 percent of its 28-day design compressive strength.
 - 1. Remove forms only if shores have been arranged to permit removal of forms without loosening or disturbing shores.
- B. Clean and repair surfaces of forms to be reused in the Work.
 - 1. Split, frayed, delaminated, or otherwise damaged form-facing material are unacceptable for exposed surfaces.
 - 2. Apply new form-release agent.
- C. After completion of concrete work at each suspended slab section, completely remove formwork and shoring from spaces below slab.
 - 1. Formwork for platform, middle flight, and intermediate landing slabs shall be removed through existing openings at sides of platform.
 - 2. Formwork for upper flight slab shall be removed through access areaways at east and west storage rooms. Formwork in Break Room shall be transported through the existing openings in brick partition wall into the Reading Room.
 - 3. It is anticipated that formwork for east and west storage room ceiling slabs will be removed through the Capitol Building. Contractor shall coordinate transport of shoring with GSD to minimize impact and disruption to building occupants.

3.4 SHORING AND RESHORING INSTALLATION

- A. Comply with ACI 318 and ACI 301 for design, installation, and removal of shoring and reshoring.
 - 1. Do not remove shoring or reshoring until measurement of slab tolerances is complete.
- B. Plan sequence of removal of shores and reshore to avoid damage to concrete. Locate and provide adequate reshoring to support construction without excessive stress or deflection.

3.5 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.
- B. Inspections:
 - 1. Inspect formwork for shape, location, and dimensions of the concrete member being formed.
 - 2. Inspect headed studs for proper installation.

END OF SECTION 03 10 00

SECTION 03 20 00

CONCRETE REINFORCING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Steel reinforcement bars.
 - 2. Welded-wire reinforcement.
- B. Related Requirements:
 - 1. Section 03 10 00 – “Concrete Forming and Accessories”
 - 2. Section 03 30 00 – “Cast-In-Place Concrete”

1.3 REFERENCES

- A. ACI Detailing Manual SP-066
- B. ASTM A615/A615M - 15ae1 "Specification for Deformed and Plain Carbon-steel Bars for Concrete Reinforcement"
- C. ASTM A767/A797M-19 "Standard Specification for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement"
- D. ASTM A1022/A1022M-22a "Standard Specification for Deformed and Plain Stainless Steel Wire and Welded Wire for Concrete Reinforcement"
- E. CRSI Manual of Standard Practice, 29th Edition
- F. ACI 318-14 "Building Code Requirements for Structural Concrete"
- G. ASTM A1064/A1064M-22 "Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete"
- H. ASTM A780/a780m-20 "Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings"

- I. ACI 117-10 "Specification for Tolerances for Concrete Construction and Materials and Commentary"

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

- 1. Review the following:
 - a. Special inspection and testing and inspecting agency procedures for field quality control.
 - b. Construction contraction and isolation joints.
 - c. Steel-reinforcement installation.

1.5 ACTION SUBMITTALS

- A. Product Data: For the following:

- 1. Each type of steel reinforcement.
- 2. Epoxy anchors.
Zinc repair material.
- 3. Bar supports.
- 4. Mechanical splice couplers.
- 5. Structural thermal break insulated connection system.

- B. Shop Drawings: Comply with ACI SP-066:

- 1. Include placing drawings that detail fabrication, bending, and placement.
- 2. Include bar sizes, lengths, materials, grades, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, location of splices, lengths of lap splices, details of mechanical splice couplers, details of welding splices, tie spacing, hoop spacing, and supports for concrete reinforcement.

- C. Construction Joint Layout: Indicate proposed construction joints required to build the structure.

- 1. Location of construction joints is subject to approval of Engineer.

1.6 INFORMATIONAL SUBMITTALS

- A. Minutes of preinstallation conference.
- B. ICC Evaluations Services report for epoxy anchors.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs Project personnel qualified as an ACI-certified Flatwork Technician and Finisher and a supervisor who is a certified ACI Flatwork Concrete Finisher/Technician or an ACI Concrete Flatwork Technician.

1. Post-Installed Concrete Anchors Installers: ACI-certified Adhesive Anchor Installer.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Steel Reinforcement: Deliver, store, and handle steel reinforcement to prevent bending and damage and to avoid damaging coatings on steel reinforcement.
 1. Store reinforcement to avoid contact with earth.
 2. Do not allow stainless steel reinforcement to come into contact with uncoated reinforcement.

PART 2 - PRODUCTS

2.1 STEEL REINFORCEMENT

- A. Reinforcing Bars: ASTM A615/A615M, Grade 60, deformed.
- B. Galvanized Reinforcing Bars:
 1. Steel Bars: ASTM A615/A615M, Grade 60, deformed bars.
 2. Zinc Coating: ASTM A767/A767M, Class I zinc coated after fabrication and bending.
- C. Headed-Stud Connectors: ASTM A108, AISI C-1015 through C-1020, headed-stud type, cold-finished carbon steel; AWS D1.1/D1.1M, Type B.

2.2 REINFORCEMENT ACCESSORIES

- A. Joint Dowel Bars: ASTM A615/A615M, Grade 60, plain-steel bars, cut true to length with ends square and free of burrs.
- B. Epoxy Anchors: High-strength epoxy adhesive suitable for anchoring reinforcing bars into existing concrete.
 1. Product shall have a current ICC Evaluations Services Report certifying compliance with IBC 2018 requirements.
 2. Epoxy anchor shall satisfy the following performance requirements:
 - a. Characteristic Bond Strength in Cracked Concrete, Temperature Range A:
 - 1) For No. 3 Bar: 1300 psi, minimum.
 - 2) For No. 4 Bar: 1300 psi, minimum.
 - 3) For No. 5 Bar: 1350 psi, minimum.
- C. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded-wire reinforcement in place.

1. Manufacture bar supports from steel wire, plastic, or precast concrete in accordance with CRSI's "Manual of Standard Practice," of greater compressive strength than concrete and as follows:
 - a. For concrete surfaces exposed to view, where legs of wire bar supports contact forms, use CRSI Class 1 plastic-protected steel wire, all-plastic bar supports, or CRSI Class 2 stainless steel bar supports.
 - b. For zinc-coated reinforcement, use galvanized wire or dielectric-polymer-coated wire bar supports.
- D. Mechanical Splice Couplers: ACI 318 Type 1, same material of reinforcing bar being spliced; tension-compression type.
- E. Steel Tie Wire: ASTM A1064/A1064M, annealed steel, not less than 0.0508 inch in diameter.
 1. Finish: Galvanized.
- F. Zinc Repair Material: An organic binder, pre-mixed, zinc-rich repair paints formulated specifically for use on steel surfaces, suitable for repairing damaged galvanized coatings, providing a dried film containing not less than 65% zinc dust by weight, and compliant with ASTM A780/A780M.

2.3 FABRICATING REINFORCEMENT

- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean existing and new reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that reduce bond to concrete.

3.2 INSTALLATION OF STEEL REINFORCEMENT

- A. Comply with CRSI's "Manual of Standard Practice" for placing and supporting reinforcement.
- B. Stud Connectors: Prepare steel surfaces as recommended by manufacturer of stud connectors. Weld using end welding of headed-stud connectors in accordance with AWS D1.1/D1.1M and manufacturer's written instructions.
- C. Accurately position, support, and secure reinforcement against displacement.
 1. Locate and support reinforcement with bar supports to maintain minimum concrete cover.
 2. Do not tack weld crossing reinforcing bars.
- D. Preserve clearance between bars of not less than 1 inch, not less than one bar diameter, or not less than 1-1/3 times size of large aggregate, whichever is greater.

- E. Provide concrete coverage in accordance with ACI 318.
- F. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.
- G. Splices: Lap splices as indicated on Drawings.
 - 1. Bars indicated to be continuous, and all vertical bars to be lapped not less than 36 bar diameters at splices, or 24 inches, whichever is greater.
 - 2. Stagger splices in accordance with ACI 318.
 - 3. Mechanical Splice Couplers: Install in accordance with manufacturer's instructions.
- H. Epoxy Anchors: Install epoxy anchors as indicated in Drawings and in accordance with ICC Evaluations Services Report.
- I. Zinc-Coated Reinforcement: Repair cut and damaged zinc coatings with zinc repair material in accordance with ASTM A780/A780M.

3.3 JOINTS

- A. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Engineer.
 - 1. Place joints perpendicular to main reinforcement.
 - 2. Continue reinforcement across construction joints unless otherwise indicated.
 - 3. Do not continue reinforcement through sides of strip placements of slabs.
- B. Doweled Joints: Install dowel bars and support assemblies at joints where indicated.

3.4 INSTALLATION TOLERANCES

- A. Comply with ACI 117.

3.5 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.
- B. Inspections:
 - 1. Steel-reinforcement placement.
 - 2. Steel-reinforcement mechanical splice couplers.

END OF SECTION 03 20 00

SECTION 03 30 00

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Cast-in-place concrete, including concrete materials, mixture design, placement procedures, and finishes.

- B. Related Requirements:

- 1. Section 03 10 00 "Concrete Forming and Accessories" for form-facing materials, form liners, insulating concrete forms, and waterstops.
 - 2. Section 03 20 00 "Concrete Reinforcing" for steel reinforcing bars and welded-wire reinforcement.

1.3 REFERENCES

- A. American Association of State Highway and Transportation Officials

- 1. AASHTO M 182-05 "Standard Specification for Burlap Cloth Made from Jute or Kenaf Cotton Mats"

- B. American Concrete Institute (ACI):

- 1. ACI 117-10 "Specification for Tolerances for Concrete Construction and Materials and Commentary"
 - 2. ACI 301-20 "Specifications for Concrete Construction"
 - 3. ACI 302.1R-15 "Guide to Concrete Floor and Slab Construction"
 - 4. ACI 305.1-14 "Specification for Hot Weather Concreting"
 - 5. ACI 306.1-90 "Standard Specification for Cold Weather Concreting"
 - 6. ACI 308.1-11 "Specification for Curing Concrete"
 - 7. ACI 318-14 "Building Code Requirements for Structural Concrete"

- C. ASTM International (ASTM):

1. ASTM C31/C31M-15 "Practice for Making and Curing Concrete Test Specimens in the Field"
2. ASTM C33/C33M-13 "Specification for Concrete Aggregates"
3. ASTM C39/C39M-21 "Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens"
4. ASTM C42/C42M-20 "Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete"
5. ASTM C94/C94M-15a "Specification for Ready-mixed Concrete"
6. ASTM C109/C109M-21 "Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens)"
7. ASTM C143/C143M-20 "Standard Test Method for Slump of Hydraulic-Cement Concrete"
8. ASTM C150/C150M-15 "Specification for Portland Cement"
9. ASTM C171-20 "Standard Specification for Sheet Materials for Curing Concrete"
10. ASTM C172/C172M-14a "Practice for Sampling Freshly Mixed Concrete"
11. ASTM C219-20a "Standard Terminology Relating to Hydraulic and Other Inorganic Cements"
12. ASTM C231/C231M-22 "Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method"
13. ASTM C260/260M-10a(2016) "Standard Specification for Air-Entraining Admixtures for Concrete"
14. ASTM C494/C494M-19e1 "Standard Specification for Chemical Admixtures for Concrete"
15. ASTM C618-22 "Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete"
16. ASTM C989/C989M-22 "Standard Specification for Slag Cement for use in Concrete and Mortars"
17. ASTM C1017/C1017M-13e1 "Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete"
18. ASTM C1059/C1059M-21 "Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete"
19. ASTM C1064/1064M-17 "Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete"
20. ASTM C1240-20 "Standard Specification for Silica Fume Used in Cementitious Mixtures"
21. ASTM C1293-20a "Standard Test Method for Determination of Length Change of Concrete Due to Alkali-Silica Reaction"
22. ASTM C1567-22 "Standard Test Method for Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)"
23. ASTM C1602/C1602M-22 "Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete"
24. ASTM C1778-22 "Standard Guide for Reducing the Risk of Deleterious Alkali-Aggregate Reaction in Concrete"
25. ASTM E1643-18a "Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs"
26. ASTM E1745-17 "Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs"

D. International Code Council (ICC):

1. ICC AC 198 "Chemical Admixtures Used in Concrete"
2. ICC AC 380-14 "Acceptance Criteria for Termite Physical Barrier Systems"

E. International Concrete Repair Institute (ICRI)

1. ICRI Concrete Surface Preparations

1.4 DEFINITIONS

- A. Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash, slag cement, other pozzolans, and silica fume; materials subject to compliance with requirements.
- B. Water/Cement Ratio (w/cm): The ratio by weight of water to cementitious materials.

1.5 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
1. Require representatives of each entity directly concerned with cast-in-place concrete to attend, including the following:
 - a. Contractor's superintendent.
 - b. Independent testing agency responsible for concrete design mixtures.
 - c. Concrete Subcontractor.
 2. Review the following:
 - a. Special inspection and testing and inspecting agency procedures for field quality control.
 - b. Construction joints, control joints, isolation joints, and joint-filler strips.
 - c. Vapor-retarder installation.
 - d. Stair tread dowel installation tolerances.
 - e. Cold and hot weather concreting procedures.
 - f. Concrete finishes and finishing.
 - g. Curing procedures.
 - h. Forms and form-removal limitations.
 - i. Shoring and reshoring procedures.
 - j. Methods for achieving specified slab profile.
 - k. Concrete repair procedures.
 - l. Concrete protection.
 - m. Initial curing and field curing of field test cylinders (ASTM C31/C31M.)
 - n. Protection of field cured field test cylinders.

1.6 ACTION SUBMITTALS

- A. Product Data: For each of the following.
1. Portland cement.

2. Fly ash.
3. Slag cement.
4. Silica fume.
5. Aggregates.
6. Admixtures:
 - a. Include limitations of use, including restrictions on cementitious materials, supplementary cementitious materials, air entrainment, aggregates, temperature at time of concrete placement, relative humidity at time of concrete placement, curing conditions, and use of other admixtures.
7. Bonding agents.
8. Curing materials.
9. Repair materials for newly cast concrete.

B. Design Mixtures: For each concrete mixture, include the following:

1. Mixture identification.
2. Minimum 28-day compressive strength.
3. Durability exposure class.
4. Maximum w/cm.
5. Calculated equilibrium unit weight, for lightweight concrete.
6. Slump limit.
7. Air content.
8. Nominal maximum aggregate size.
9. Indicate amounts of mixing water to be withheld for later addition at Project site if permitted.
10. Intended placement method.
11. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

1.7 INFORMATIONAL SUBMITTALS

A. Qualification Data: For the following:

1. Ready-mixed concrete manufacturer.

B. Material Certificates: For each of the following, signed by manufacturers:

1. Cementitious materials.
2. Admixtures.
3. Curing compounds.
4. Bonding agents.

C. Material Test Reports: For the following, from a qualified testing agency:

1. Portland cement.
2. Fly ash.
3. Slag cement.
4. Blended hydraulic cement.

5. Silica fume.
6. Performance-based hydraulic cement.
7. Aggregates.
8. Admixtures:
 - a. Permeability-Reducing Admixture: Include independent test reports, indicating compliance with specified requirements, including dosage rate used in test.

D. Research Reports:

1. For concrete admixtures in accordance with ICC's Acceptance Criteria AC198.
2. For sheet vapor retarder/termite barrier, showing compliance with ICC AC380.

E. Preconstruction Test Reports: For each mix design.

F. Field quality-control reports.

G. Minutes of preinstallation conference.

1.8 QUALITY ASSURANCE

A. Ready-Mixed Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94/C94M requirements for production facilities and equipment.

1. Manufacturer certified in accordance with NRMCA's "Certification of Ready Mixed Concrete Production Facilities."

1.9 PRECONSTRUCTION TESTING

A. Preconstruction Testing Service: Engage a qualified testing agency to perform preconstruction testing on each concrete mixture.

1. Include the following information in each test report:
 - a. Admixture dosage rates.
 - b. Slump.
 - c. Air content.
 - d. Seven-day compressive strength.
 - e. 28-day compressive strength.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Comply with ASTM C94/C94M and ACI 301.

1.11 FIELD CONDITIONS

A. Cold-Weather Placement: Comply with ACI 301 and ACI 306.1 and as follows.

1. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
2. When average high and low temperature is expected to fall below 40 deg F for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
3. Do not use frozen materials or materials containing ice or snow.
4. Do not place concrete in contact with surfaces less than 35 deg F, other than reinforcing steel.
5. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.

B. Hot-Weather Placement: Comply with ACI 301 and ACI 305.1, and as follows:

1. Maintain concrete temperature at time of discharge to not exceed 95 deg F.
2. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

1.12 WARRANTY

- A. Installer's Warranty: Installer agrees to warrant concrete installation against cracking in excess of 1/16 inch, discoloration, scaling and spalling, and pop-outs resulting from materials or workmanship for a period of three (3) years from substantial completion.

PART 2 - PRODUCTS

2.1 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301.

2.2 CONCRETE MATERIALS

A. Source Limitations:

1. Obtain all concrete mixtures from a single ready-mixed concrete manufacturer for entire Project.
2. Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant.
3. Obtain aggregate from single source.
4. Obtain each type of admixture from single source from single manufacturer.

B. Cementitious Materials:

1. Portland Cement: ASTM C150/C150M, Type I/II, gray.
2. Fly Ash: ASTM C618, Class C or F.
3. Slag Cement: ASTM C989/C989M, Grade 100 or 120.
4. Silica Fume: ASTM C1240 amorphous silica.

- C. Normal-Weight Aggregates: ASTM C33/C33M, Class 3M coarse aggregate or better, graded. Provide aggregates from a single source.
 - 1. Alkali-Silica Reaction: Comply with one of the following:
 - a. Expansion Result of Aggregate: Not more than 0.04 percent at one-year when tested in accordance with ASTM C1293.
 - b. Expansion Results of Aggregate and Cementitious Materials in Combination: Not more than 0.10 percent at an age of 16 days when tested in accordance with ASTM C1567.
 - c. Alkali Content in Concrete: Not more than 4 lb./cu. yd. for moderately reactive aggregate or 3 lb./cu. yd. for highly reactive aggregate, when tested in accordance with ASTM C1293 and categorized in accordance with ASTM C1778, based on alkali content being calculated in accordance with ACI 301.
 - 2. Maximum Coarse-Aggregate Size: as indicated in Article 2.8 “Concrete Mixtures”, below.
 - 3. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- D. Air-Entraining Admixture: ASTM C260/C260M.
- E. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures that do not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride. Depending on project conditions and at the ready-mix supplier’s option, one or more of the following admixtures may be included in the concrete mix design to satisfy project performance requirements.
 - 1. Water-Reducing Admixture: ASTM C494/C494M, Type A.
 - 2. Retarding Admixture: ASTM C494/C494M, Type B.
 - 3. Water-Reducing and -Retarding Admixture: ASTM C494/C494M, Type D.
 - 4. High-Range, Water-Reducing Admixture: ASTM C494/C494M, Type F.
 - 5. High-Range, Water-Reducing and -Retarding Admixture: ASTM C494/C494M, Type G.
 - 6. Plasticizing and Retarding Admixture: ASTM C1017/C1017M, Type II.
 - 7. Set-Accelerating Corrosion-Inhibiting Admixture: Commercially formulated, anodic inhibitor or mixed cathodic and anodic inhibitor; capable of forming a protective barrier and minimizing chloride reactions with steel reinforcement in concrete and complying with ASTM C494/C494M, Type C.
 - 8. Non-Set-Accelerating Corrosion-Inhibiting Admixture: Commercially formulated, non-set-accelerating, anodic inhibitor or mixed cathodic and anodic inhibitor; capable of forming a protective barrier and minimizing chloride reactions with steel reinforcement in concrete.
- F. Water and Water Used to Make Ice: ASTM C94/C94M, potable.

2.3 CURING MATERIALS

- A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

- B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.
- C. Moisture-Retaining Cover: ASTM C171, polyethylene film burlap-polyethylene sheet.
 - 1. Color:
 - a. Ambient Temperature Below 50 deg F: Black.
 - b. Ambient Temperature between 50 deg F and 85 deg F: Any color.
 - c. Ambient Temperature Above 85 deg F: White.
- D. Water: Potable or complying with ASTM C1602/C1602M.

2.4 RELATED MATERIALS

- A. Bonding Agent: ASTM C1059/C1059M, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

2.5 REPAIR MATERIALS

- A. Repair Mortar for Newly Cast Concrete: Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses from 1/8 inch and that can be feathered at edges to match adjacent surface elevations.
 - 1. Cement Binder: ASTM C150/C150M portland cement or hydraulic or blended hydraulic cement, as defined in ASTM C219.
 - 2. Primer: Product of underlayment manufacturer recommended for substrate, conditions, and application.
 - 3. Aggregate: Well-graded, washed sand, as recommended by underlayment manufacturer.
 - 4. Compressive Strength: Not less than 5000 psi at 28 days when tested in accordance with ASTM C109/C109M.

2.6 CONCRETE MIXTURES, GENERAL

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, in accordance with ACI 301.
 - 1. Use a qualified testing agency for preparing and reporting proposed mixture designs, based on laboratory trial mixtures.
- B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
 - 1. Fly Ash or Other Pozzolans: 25 percent by mass.
 - 2. Slag Cement: 50 percent by mass.
 - 3. Silica Fume: 10 percent by mass.
 - 4. Total of Fly Ash or Other Pozzolans, Slag Cement, and Silica Fume: 50 percent by mass, with fly ash or pozzolans not exceeding 25 percent by mass and silica fume not exceeding 10 percent by mass.

5. Total of Fly Ash or Other Pozzolans and Silica Fume: 35 percent by mass with fly ash or pozzolans not exceeding 25 percent by mass and silica fume not exceeding 10 percent by mass.

C. Admixtures: Use admixtures in accordance with manufacturer's written instructions.

1. Use water-reducing high-range water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
2. Use water-reducing and -retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
3. Use water-reducing admixture in pumped concrete, and concrete with a w/cm below 0.50.

2.7 CONCRETE MIXTURES

A. Class A: Normal-weight concrete used for side stair slabs.

1. Exposure Class: ACI 318 F1, S0, W0, C1.
2. Minimum Compressive Strength: 4000 psi at 28 days.
3. Maximum w/cm: 0.50.
4. Maximum Coarse-Aggregate Size: $\frac{3}{4}$ inch nominal.
5. Slump Limit: 4 inches, plus or minus 1 inch.
6. Air Content:
 - a. 5.0 percent, plus or minus 1.5 percent at point of delivery for concrete containing $\frac{3}{4}$ -inch nominal maximum aggregate size.
7. Limit water-soluble, chloride-ion content in hardened concrete to 0.30 percent by weight of cement.

B. Class B: Normal-weight concrete used for suspended slabs at Platform, Middle Flight, Intermediate Landing, and Upper Flight.

1. Exposure Class: ACI 318 F0 S0 W0 C0.
2. Minimum Compressive Strength: 4000 psi at 28 days.
3. Maximum w/cm: 0.50.
4. Maximum Coarse-Aggregate Size: $\frac{3}{4}$ inch nominal.
5. Minimum Cementitious Materials Content: 470 lb/cu. yd..
6. Slump Limit: 4 inches, plus or minus 1 inch.
7. Air Content: 5.0 percent, plus or minus 1.5 percent at point of delivery for concrete containing $\frac{3}{4}$ -inch nominal maximum aggregate size.
8. Limit water-soluble, chloride-ion content in hardened concrete to 0.30 percent by weight of cement.

C. Class C: Normal-weight concrete used for setting trench drains.

1. Exposure Class: ACI 318 F3 S0 W1 C2.
2. Minimum Compressive Strength: 5000 psi at 28 days.
1. Maximum w/cm: 0.50.
2. Maximum Coarse-Aggregate Size: $1\frac{1}{2}$ inch nominal.

3. Slump Limit: 5 inches, plus or minus 1 inch.
4. Air Content: 5.5 percent, plus or minus 1.5 percent at point of delivery for concrete containing 1-1/2-inch nominal maximum aggregate size.
5. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.

2.8 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete in accordance with ASTM C94/C94M, and furnish batch ticket information.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions:
 1. Before placing concrete, verify that installation of concrete forms, accessories, and reinforcement, and embedded items is complete and that required inspections have been performed.
 2. Do not proceed until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Provide reasonable auxiliary services to accommodate field testing and inspections, acceptable to testing agency, including the following:
 1. Daily access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Secure space for storage, initial curing, and field curing of test samples, including source of water and continuous electrical power at Project site during site curing period for test samples.
 4. Security and protection for test samples and for testing and inspection equipment at Project site.

3.3 JOINTS

- A. Construct joints true to line, with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Coordinate with concrete placement sequence indicated in the Drawings.
 1. Install so strength and appearance of concrete are not impaired, at locations indicated on Drawings or as approved by Engineer.
 2. Place joints as indicated in the Drawings.
 - a. Continue reinforcement across construction joints unless otherwise indicated.

- b. Do not continue reinforcement through sides of strip placements of floors and slabs.
3. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.

3.4 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded drains, are complete and that required inspections are completed.
- B. Notify Engineer and testing and inspection agencies 24 hours prior to commencement of concrete placement.
- C. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301, but not to exceed the amount indicated on the concrete delivery ticket.
 1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- D. At each pour, deposit concrete continuously in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness.
 1. Deposit concrete to avoid segregation.
 2. Deposit concrete in horizontal layers of depth not to exceed formwork design pressures and in a manner to avoid inclined construction joints.
 3. Consolidate placed concrete with mechanical vibrating equipment in accordance with ACI 301.
 - a. Do not use vibrators to transport concrete inside forms.
 - b. Insert and withdraw vibrators vertically at uniformly spaced locations.
 - c. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity.
 - d. At each insertion, limit duration of vibration to time necessary to consolidate concrete, and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
- E. Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until placement of a section is complete.
 1. Consolidate concrete during placement operations, so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 2. Maintain reinforcement in position on chairs during concrete placement.
 3. Screed slab surfaces with a straightedge and strike off to correct elevations.
 4. Level concrete, cut high areas, and fill low areas.
 5. Slope surfaces uniformly to drains where indicated.
 6. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface.
 7. Do not further disturb slab surfaces before starting finishing operations.

3.5 FINISHING FORMED SURFACES

A. As-Cast Surface Finishes:

1. ACI 301 Surface Finish SF-1.0: As-cast concrete texture imparted by form-facing material.
 - a. Patch voids larger than 1-1/2 inches wide or 1/2 inch deep.
 - b. Remove projections larger than 1 inch.
 - c. Tie holes do not require patching.
 - d. Surface Tolerance: ACI 117 Class D.
 - e. Apply to concrete surfaces not exposed to public view.
2. ACI 301 Surface Finish SF-3.0:
 - a. Patch voids larger than 1/4 inch wide or 1/4 inch deep.
 - b. Remove projections larger than 1/8 inch.
 - c. Patch tie holes.
 - d. Surface Tolerance: ACI 117 Class A.
 - e. Locations: Apply to concrete surfaces exposed to public view, including exposed surface above Reading Room and Break Room.

3.6 FINISHING SLABS

- #### A. Comply with ACI 302.1R recommendations for screeding, restraighening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- #### B. Float Finish:
1. When bleedwater sheen has disappeared and concrete surface has stiffened sufficiently to permit operation of specific float apparatus, consolidate concrete surface with power-driven floats or by hand floating if area is small or inaccessible to power-driven floats.
 2. Repeat float passes and restraighening until surface is left with a uniform, smooth, granular texture satisfying ICRI CSP 3–5 and complies with ACI 117 tolerances for conventional concrete.
 3. Apply float finish to surfaces to be covered with fluid-applied waterproofing or metal sheet flashing.

3.7 INSTALLATION OF MISCELLANEOUS CONCRETE ITEMS

A. Filling In:

1. Fill in holes and openings left in concrete structures after Work of other trades is in place unless otherwise indicated.
2. Mix, place, and cure concrete, as specified, to blend with in-place construction.
3. Provide other miscellaneous concrete filling indicated or required to complete the Work.

3.8 CONCRETE CURING

- A. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
 - 1. Comply with ACI 301 and ACI 306.1 for cold weather protection during curing.
 - 2. Comply with ACI 301 and ACI 305.1 for hot-weather protection during curing.
 - 3. Maintain moisture loss no more than 0.2 lb/sq. ft. x h, calculated in accordance with ACI 305.1, before and during finishing operations.
- B. Curing Formed Surfaces: Comply with ACI 308.1 as follows:
 - 1. Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces.
 - 2. Cure concrete containing color pigments in accordance with color pigment manufacturer's instructions.
 - 3. If forms remain during curing period, moist cure after loosening forms.
 - 4. If removing forms before end of curing period, continue curing for remainder of curing period, as follows:
 - a. Continuous Fogging: Maintain standing water on concrete surface until final setting of concrete.
 - b. Continuous Sprinkling: Maintain concrete surface continuously wet.
 - c. Absorptive Cover: Pre-dampen absorptive material before application; apply additional water to absorptive material to maintain concrete surface continuously wet.
 - d. Water-Retention Sheeting Materials: Cover exposed concrete surfaces with sheeting material, taping, or lapping seams.
 - e. Membrane-Forming Curing Compound: Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's written instructions.
 - 1) Recoat areas subject to heavy rainfall within three hours after initial application.
 - 2) Maintain continuity of coating and repair damage during curing period.
- C. Curing Unformed Surfaces: Comply with ACI 308.1 as follows:
 - 1. Begin curing immediately after finishing concrete.

3.9 TOLERANCES

- A. Conform to ACI 117.

3.10 CONCRETE SURFACE REPAIRS

- A. Defective Concrete: Areas of concrete not satisfying the requirements of ACI 301 or this Section shall be brought to the immediate attention of the Engineer.
 - 1. Repair and patch defective areas when approved by Engineer.
 - 2. Remove and replace concrete that cannot be repaired and patched to Engineer's approval.

- B. Patching Mortar: Mix dry-pack patching mortar, consisting of 1 part portland cement to 2½ parts fine aggregate passing a No. 16 sieve, using only enough water for handling and placing.
- C. Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.
 - 1. Immediately after form removal, cut out honeycombs, rock pockets, and voids more than 1/4 inch in any dimension to solid concrete.
 - a. Limit cut depth to 3/4 inch.
 - b. Make edges of cuts perpendicular to concrete surface.
 - c. Clean, dampen with water, and brush-coat holes and voids with bonding agent.
 - d. Fill and compact with patching mortar before bonding agent has dried.
 - e. Fill form-tie voids with patching mortar or cone plugs secured in place with bonding agent.
 - 2. Repair defects on surfaces exposed to view by blending white portland cement and standard portland cement, so that, when dry, patching mortar matches surrounding color.
 - a. Patch a test area at inconspicuous locations to verify mixture and color match before proceeding with patching.
 - b. Compact mortar in place and strike off slightly higher than surrounding surface.
 - 3. Repair defects on concealed formed surfaces that will affect concrete's durability and structural performance as determined by Engineer.
- D. Repairing Unformed Surfaces:
 - 1. Test unformed surfaces, such as floors and slabs, for finish, and verify surface tolerances specified for each surface.
 - a. Correct low and high areas.
 - b. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.
 - 2. Repair finished surfaces containing surface defects, including spalls, pop-outs, honeycombs, rock pockets, crazing, and cracks in excess of 0.01 inch wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width, and other objectionable conditions.
 - 3. After concrete has cured at least 14 days, correct high areas by grinding.
 - 4. Correct localized low areas during, or immediately after, completing surface-finishing operations by cutting out low areas and replacing with patching mortar.
 - a. Finish repaired areas to blend into adjacent concrete.
 - 5. Correct other low areas scheduled to receive waterproofing with a repair underlayment if acceptable to waterproofing manufacture. If not acceptable, replace concrete as necessary.

- a. Prepare, mix, and apply repair underlayment and primer in accordance with manufacturer's written instructions to produce a smooth, uniform, plane, and level surface.
 - b. Feather edges to match adjacent floor elevations.
6. Repair defective areas, except random cracks and single holes 1 inch or less in diameter, by cutting out and replacing with fresh concrete.
 - a. Remove defective areas with clean, square cuts, and expose steel reinforcement with at least a 3/4-inch clearance all around.
 - b. Dampen concrete surfaces in contact with patching concrete and apply bonding agent.
 - c. Mix patching concrete of same materials and mixture as original concrete, except without coarse aggregate.
 - d. Place, compact, and finish to blend with adjacent finished concrete.
 - e. Cure in same manner as adjacent concrete.
7. Repair random cracks and single holes 1 inch or less in diameter with patching mortar.
 - a. Groove top of cracks and cut out holes to sound concrete, and clean off dust, dirt, and loose particles.
 - b. Dampen cleaned concrete surfaces and apply bonding agent.
 - c. Place patching mortar before bonding agent has dried.
 - d. Compact patching mortar and finish to match adjacent concrete.
 - e. Keep patched area continuously moist for at least 72 hours.
- E. Perform structural repairs of concrete, subject to Engineer's approval, in accordance with Section 03 01 30 "Concrete Repairs" at no additional cost to the GSD.
- F. Repair materials and installation not specified above may be used, subject to Engineer's approval.

3.11 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a special inspector to perform field tests and inspections and prepare testing and inspection reports.
- B. Testing Agency: Owner will engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.
 1. Testing agency to be responsible for providing curing container for composite samples on Site and verifying that field-cured composite samples are cured in accordance with ASTM C31/C31M.
 2. Testing agency to immediately report to Engineer, Contractor, and concrete manufacturer any failure of Work to comply with Contract Documents.
 3. Testing agency to report results of tests and inspections, in writing, to Owner, Engineer, Contractor, and concrete manufacturer within 48 hours of inspections and tests.

- a. Test reports to include reporting requirements of ASTM C31/C31M, ASTM C39/C39M, and ACI 301, including the following as applicable to each test and inspection:
 - 1) Project name.
 - 2) Name of testing agency.
 - 3) Names and certification numbers of field and laboratory technicians performing inspections and testing.
 - 4) Name of concrete manufacturer.
 - 5) Date and time of inspection, sampling, and field testing.
 - 6) Date and time of concrete placement.
 - 7) Location in Work of concrete represented by samples.
 - 8) Date and time sample was obtained.
 - 9) Truck and batch ticket numbers.
 - 10) Design compressive strength at 28 days.
 - 11) Concrete mixture designation, proportions, and materials.
 - 12) Field test results.
 - 13) Information on storage and curing of samples before testing, including curing method and maximum and minimum temperatures during initial curing period.
 - 14) Type of fracture and compressive break strengths at seven days and 28 days.
- C. Batch Tickets: For each load delivered, submit three copies of batch delivery ticket to testing agency, indicating quantity, mix identification, admixtures, design strength, aggregate size, design air content, design slump at time of batching, and amount of water that can be added at Project site.
- D. Inspections:
 1. Verification of use of required design mixture.
 2. Concrete placement, including conveying and depositing.
 3. Curing procedures and maintenance of curing temperature.
 4. Verification of concrete strength before removal of shores and forms from beams and slabs.
 5. Batch Plant Inspections: On a random basis, as determined by Engineer.
- E. Concrete Tests: Testing of composite samples of fresh concrete obtained in accordance with ASTM C 172/C 172M to be performed in accordance with the following requirements:
 1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. or fraction thereof.
 - a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing to be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
 2. Slump: ASTM C143/C143M:
 - a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.

- b. Perform additional tests when concrete consistency appears to change.
- 3. Air Content: ASTM C231/C231M pressure method, for normal-weight concrete;
 - a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
- 4. Concrete Temperature: ASTM C1064/C1064M:
 - a. One test hourly when air temperature is 40 deg F and below or 80 deg F and above, and one test for each composite sample.
- 5. Compression Test Specimens: ASTM C31/C31M:
 - a. Cast and laboratory cure two sets of three 6-inch by 12-inch or 4-inch by 8-inch cylinder specimens for each composite sample.
 - b. Cast, initial cure, and field cure two sets of three standard cylinder specimens for each composite sample.
- 6. Compressive-Strength Tests: ASTM C39/C39M.
 - a. Test one set of three laboratory-cured specimens at seven days and one set of three specimens at 28 days.
 - b. Test one set of three field-cured specimens at seven days and one set of three specimens at 28 days.
 - c. A compressive-strength test to be the average compressive strength from a set of three specimens obtained from same composite sample and tested at age indicated.
- 7. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor to evaluate operations and provide corrective procedures for protecting and curing in-place concrete.
- 8. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength, and no compressive-strength test value falls below specified compressive strength by more than 500 psi if specified compressive strength is 5000 psi, or no compressive strength test value is less than 10 percent of specified compressive strength if specified compressive strength is greater than 5000 psi.
- 9. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Engineer but will not be used as sole basis for approval or rejection of concrete.
- 10. Additional Tests:
 - a. Testing and inspecting agency to make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Engineer.
 - b. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42/C42M or by other methods as directed by Engineer.
 - 1) Acceptance criteria for concrete strength to be in accordance with ACI 301, Section 1.6.6.3.

11. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
12. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.

3.12 PROTECTION

A. Protect concrete surfaces as follows:

1. Protect from petroleum stains.
2. Diaper hydraulic equipment used over concrete surfaces.
3. Prohibit use of pipe-cutting machinery over concrete surfaces.
4. Prohibit placement of steel items on concrete surfaces.
5. Prohibit use of acids or acidic detergents over concrete surfaces.

END OF SECTION 03 30 00

SECTION 04 03 50

HISTORIC UNIT MASONRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. This section includes notes for treatment at historic masonry walls, pavements, and stairs. The work will follow a preservation approach, as described in the Secretary of the Interior's Historic Treatment Standards. This section generally comprises the following work to be performed in accordance with project treatment guidelines:
 - 1. Replacement of damaged or missing brick at interior brick partition walls in the Reading room and adjacent spaces.
 - 2. Replacement of corroded steel lintels in brick masonry and addition of new steel lintels at duct penetrations through interior brick walls in the Reading room and adjacent spaces.
 - 3. Repointing of exposed brick backup walls behind removed limestone cladding at the cheekwalls and platform and on the interior face of the brick walls beneath the platform.
 - 4. Development, evaluation, and selection of mortar mixes.
 - 5. Mockups.
 - 6. Fabrication of new limestone units for replacement of damaged limestone units
 - 7. Fabrication of new limestone pavers for installation at the platform.
 - 8. Repairs on existing stone stair treads, cladding, and columns. Repairs will be performed on both salvaged stone units and remaining units in place. Repairs will include:
 - a. Crack repairs
 - b. Patch repairs
 - c. Dutchman repairs
 - d. Tar and gum removal
 - e. Mortar and sealant removal
 - f. Cleaning
 - 9. Repointing of all joints between the remaining stone units at the north stair, including platform, side pillars, cheekwalls, and side elevations of the portico from grade to the First Floor Level.
 - 10. Reinstallation of salvaged and replacement stone units, including stair treads, pavers, wall panels, cornices, and copings.
 - 11. Installation of new limestone pavers at the platform.

B. Related Requirements:

1. Section 05 12 83 "Structural Steel Repairs" for lintels
2. Section 07 14 16 "PUMA Waterproofing" installed beneath stairs and platform
3. Section 07 62 00 "Lead Flashing" for lead flashing installed in or under stonework.
4. Section 07 92 00 "Joint Sealants" for expansion joints
5. Appendix A – Stone Testing Report
6. Appendix B – Stone Survey Sheets

1.3 REFERENCES

- A. ASTM C5-10 "Specification for Quicklime for Structural Purposes"
- B. ASTM C62-17: "Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)"
- C. ASTM C67/C67M-21: "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"
- D. ASTM C97-18: "Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"
- E. ASTM C99/C99M-18: "Standard Test Method for Modulus of Rupture of Dimension Stone"
- F. ASTM C114-18 "Standard Test Methods for Chemical Analysis of Hydraulic Cement"
- G. ASTM C119-16: "Standard Terminology Relating to Dimension Stone"
- H. ASTM C144-18 "Standard Specification for Aggregate for Masonry Repair"
- I. ASTM C150/C150M-15 "Specification for Portland Cement"
- J. ASTM C170-17: "Test Method for Compressive Strength of Dimension Stone"
- K. ASTM C216-22: "Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)"
- L. ASTM C207-18: "Standard Specification for Hydrated Lime for Masonry Purposes"
- M. ASTM C270-14a "Specification for Mortar for Unit Masonry"
- N. ASTM C568/C568-2015: "Standard Specification for Limestone Dimension Stone"
- O. ASTM C615/C615M-18e1: "Standard Specification for Granite Dimension Stone"
- P. ASTM C880/C880M-18e1: "Standard Test Method for Flexural Strength of Dimension Stone"
- Q. ASTM C979/C979M-16 "Standard Specification for Pigments for Integrally Colored Concrete"
- R. ASTM C1324-15: "Standard Test Method for Examination and Analysis of Hardened Masonry Mortar"

- S. ASTM C1489-15(2022) "Standard Specification for Lime Putty for Structural Purposes"
- T. ASTM C1713-17: "Standard Specification for Mortars for The Repair of Historic Masonry"
- U. ASTM C1721-22: "Standard Guide for Petrographic Examination of Dimension Stone"
- V. ASTM C1722-18: "Standard Guide for Repair and Restoration of Dimension Stone"
- W. ASTM E2260-21: "Standard Guide for Repointing (Tuckpointing) Historic Masonry"
- X. Indiana Limestone Institute (ILI) of America, "Indiana Limestone Handbook, 22nd Edition"
- Y. U.S. Department Of The Interior, "Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines For Preserving, Rehabilitation, Restoring, & Reconstruction Historic Buildings"

1.4 DEFINITIONS

- A. Dutchman repair: New or salvaged stone fitted into an existing stone to repair damage or spalls.
- B. Rift: The most pronounced direction of splitting or cleavage of a stone.
- C. Setting Mortar: Mortar used to set and anchor masonry in a structure, distinct from pointing mortar installed after masonry is set in place.
- D. Stone Terminology: ASTM C119.
- E. Low-Pressure Spray:
 - 1. Pressure: 100 to 400 psi.
 - 2. Flow Rate: 4 to 6 gpm.
- F. Very Low-Pressure Spray: Less than 100 psi.

1.5 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct preinstallation conference on historic unit masonry at Project site.
 - 1. Attendees shall include:
 - a. Representative for the GSD.
 - b. Engineer's Project Manager.
 - c. Contractor's Project Manager.
 - d. Contractor's Superintendent.
 - e. Foreman for the masonry subcontractor.
 - f. Representative from the stone fabrication shop.
 - g. Chemical-cleaner manufacturer's factory-authorized service representatives.

2. Conference Agenda: Review methods and procedures related to repairing historic stone masonry, including, but not limited to, the following:
 - a. Verify historic treatment contractor's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Materials, material application, sequencing, tolerances, and required clearances.
 - c. Stone documentation and catalog.
 - d. Historic masonry treatment program.
 - e. Quality-control program.

1.6 SEQUENCING AND SCHEDULING

- A. Procurement: Procure each material in a timely manner after all its prerequisite approvals are given to reduce risk of potential delays to project schedule. Obtain each material in single batches sufficient quantity to complete Project in order to reduce potential of variation between batches and minimize transportation costs. Take delivery of materials and safely store at Project site in accordance with all Manufacturer and Project requirements.
 1. Order sand and cementitious materials for pointing mortar immediately after approval of mockups.

1.7 ACTION SUBMITTALS

- A. Historic Masonry Treatment Program: In accordance with Quality Assurance article of this Section.
- B. Product Data: For each type of product.
 1. Include test data substantiating that products comply with requirements.
- C. Product Data: For each type of product indicated, submit the most current manufacturer's product data:
 1. Include test data substantiating that products comply with requirements. Data for masonry materials shall be no older than one (1) year. Include product data for the following products:
 - a. Mortar components
 - b. Mortar mix design
 - c. Repair matching mortar
 2. Include preconstruction test reports for stone and mortar materials.
- D. Samples for Initial Selection: Contractor shall submit the following to be approved and selected by the Engineer and GSD.
 1. Limestone for Platform Pavers and Replacement Units: Provide samples of limestone in sizes large enough to demonstrate new limestone units would match existing in texture, color, and variegation, but not smaller than 12 inches by 12 inches. Provide adequate quantity of samples to show full range of texture, color, and variegation, but not fewer

- than three (3) samples. Source individual stones directly from the quarry to ensure match of replacement stones.
2. Granite for Dutchman Repairs: Provide samples of granite in sizes large enough to demonstrate new granite for dutchman repairs would match existing in texture, color, and variegation, but not smaller than 3 inches by 3 inches. Provide adequate quantity of samples to show full range of texture, color, and variegation, but not fewer than three (3) samples. Source individual stones directly from the quarry to ensure match of stones.
 3. Limestone Patching Compound: Submit sets of patching compound samples in the form of plugs (patches in drilled holes) in sample units of stone representative of the range of stone colors.
 - a. Have each set contain a close color range of at least three (3) samples of different mixes of patching compound that matches the variations in existing stone when cured and dry.
 4. Granite Patching Compound: Submit sets of patching compound samples in the form of plugs (patches in drilled holes) in sample units of stone representative of the range of stone colors.
 - a. Have each set contain a close color range of at least three (3) samples of different mixes of patching compound that matches the variations in existing stone when cured and dry.
 5. Colored Mortar: Submit sets of mortar that will be left exposed in the form of sample mortar strips, 6 inches long by 1/2 inch wide, set in aluminum or plastic channels.
 - a. Have each set contain a close color range of at least three (3) samples of different mixes of colored sands and cements that produce a mortar matching existing, cleaned mortar when cured and dry.
 - b. Submit with precise measurements on ingredients, proportions, gradations, and sources of colored sands from which each sample was made.
 6. Mortar Sand: Each type of sand used for mortar; minimum 8 oz. of each in plastic screw-top jars.
 - 1) For blended sands, provide samples of each component and of blend. Identify blend ratio.
 - 2) Identify sources, both supplier and quarry, of each type of sand.

E. Shop Drawings:

1. Include plans, elevations, sections, and locations of stone repair work on the structure.
 - a. Indicate setting number of each stone unit and its location on the structure in annotated plans and elevations.
 - b. For new stones, indicate complete dimensions for new stone units and their jointing, showing relation of existing to new units.
2. For stone reinstatement, show provisions for expansion joints or other sealant joints.
3. Show locations of dowels based on field survey.

1.8 INFORMATIONAL SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Include recommendations for product application and use.
3. Include test data substantiating that products and materials comply with requirements. Data for masonry material shall be no older than twelve (12) months.

B. Material Certificates: For each type of the following:

1. Masonry units.
 - a. Include data on material properties and material test reports substantiating compliance with requirements.
 - b. For brick, include size-variation data verifying that actual range of sizes falls within specified tolerances.
2. Cementitious materials. Include name of manufacturer, brand name, and type.
3. Mortar admixtures.
4. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
5. Reinforcement and metal accessories.

C. Setting Bed Mix Designs: For each type of mortar. Include description of type and proportions of ingredients.

1. Include test reports for setting bed mortar mixes required to comply with property specification. Test in accordance with ASTM C109/C109M for compressive strength, ASTM C1506 for water retention, and ASTM C91/C91M for air content.

D. Qualification Data: For Historic Masonry Contractor and for all team members, including description of preconstruction training and manufacturer certifications completed prior to start of work.

E. Preconstruction Test Reports: For existing mortar and replacement stone.

F. Quality Control Program: In accordance with Quality Assurance article of this Section.

G. Cold-Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.9 QUALITY ASSURANCE

A. Testing Agency Qualifications: Qualified in accordance with ASTM C1093 for testing indicated.

B. Historic Masonry Contractor Qualifications: A qualified historic stone repair contractor experienced in installing stone cladding and paver assemblies similar in material, design, and extent to that indicated for this Project, and whose work has a record of successful in-service performance.

1. Experience installing standard unit masonry or new stone masonry is insufficient experience for stone historic treatment work.
 2. Work must be performed by a firm having not less than 5 years' successful experience in comparable historic masonry restoration projects and employing personnel skilled in the restoration processes and operations indicated. Site project manager, superintendent, and foreman must have personal experience with historic masonry restoration projects in the last 5 years.
 3. The Foreman must be on site at all times while the work is being executed to oversee workers and ensure all masonry restoration is conducted in accordance with the Contract Documents, the approved Historic Masonry Treatment Program, and accepted historical preservation techniques.
- C. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate stone assemblies similar to that required for this Project and whose products have a record of successful in-service performance.
- D. Chemical-Cleaner Manufacturer Qualifications: A firm regularly engaged in producing masonry cleaners that have been used for similar applications with successful results, and with factory-authorized service representatives who are available for consultation and Project-site inspection, preconstruction product testing, and on-site assistance.
- E. Stone Historic Treatment Program: Prepare a written, detailed description of materials, methods, equipment, and sequence of operations to be used for each phase of the historic treatment work, including protection of surrounding materials and Project site.
1. Include methods for keeping exposed mortar damp during curing period.
 2. Include a written cleaning program that describes cleaning process in detail, including materials, methods, sequence, and equipment to be used; protection of surrounding materials; and control of runoff during operations.
 3. If materials and methods other than those indicated are proposed for any phase of historic treatment work, add to the quality-control program a written description of such materials and methods, including evidence of successful use on comparable projects, and demonstrations to show their effectiveness for this Project.
- F. Quality-Control Program: Prepare a written quality-control program for this Project to systematically demonstrate the ability of personnel to properly follow methods and use materials and tools without damaging masonry. Include provisions for supervising worker performance and preventing damage.
- 1.10 PRECONSTRUCTION TESTING
- A. General: Engage a qualified testing agency to perform preconstruction testing on materials as indicated in this Section:
- B. Joint Mortar Testing: Carefully collect samples of the existing mortar for testing in accordance with ASTM C1324 and ASTM C1713 at locations indicated and submit for testing to determine the components of the existing joint mortar.

1. Locations: Samples shall be taken in accordance with ASTM C1324 for each different type of mortar observed, but not fewer than 6 samples. At a minimum, samples should be taken from the following locations.
 - a. Portico pavers remaining in place.
 - b. Cheekwall wall panels remaining in place.
 - c. Portico side elevations at rusticated stone.
 - d. Platform walls at limestone.
 - e. Platform walls at granite.
 - f. Interior brick walls at Reading room.
 2. Take samples from sound areas. Do not take samples from deteriorated mortar.
 3. Samples shall be collected from both original and repointed masonry areas (if observed).
 4. Samples shall be collected at multiple depths to distinguish original mortars from subsequent repointing mortars.
 5. Submit samples to a qualified petrographer for analysis in accordance with the full procedure of ASTM C1324.
 - a. Include both petrographic evaluation and acid digestion.
 - b. Use X-ray diffraction, infrared spectroscopy, and differential thermal analysis to supplement microscopical methods.
 6. The dried digested sand samples shall be returned to the Contractor in labeled, clear plastic screw-top jars for use in identifying matching sand sources.
 7. Develop and evaluate mortar trial mixes based on the results of the petrographic analysis and in accordance with ASTM C1713.
- C. Replacement Limestone: The quarry for the original limestone, P. M. & B. Quarry, is no longer in operation and a new limestone source will need to be identified that matches the existing limestone for fabricating replacement stone to replace those that were irreparably damaged and for new limestone pavers at the platform. Testing of the existing limestone has been previously performed and the results of the testing have been included in Appendix A of the Project Manual. The Contractor shall identify potential sources for the new limestone and submit samples from the best likely matches for testing in accordance with the following to verify whether the new limestone matches the properties and characteristics of the existing limestones as specified in Part 2 of this Section and evaluate the potential for constituents that may have a negative impact on the long-term durability of the stone.
1. ASTM C170/C170M for compressive strength, wet and dry, perpendicular and parallel to rift;
 2. ASTM C99/C99M for modulus of rupture, wet and dry, perpendicular and parallel to rift;
 3. ASTM C97/C97M for absorption and bulk specific gravity.
 4. ASTM C1721:
 - a. Compare characteristics of the new limestone specimens with specimens of the original limestone. New limestone properties to closely match properties of original stone.
 - b. Establish whether the specimen contains chemically unstable minerals or volumetrically unstable materials
 - c. Identify weathered or otherwise altered constituents or minerals and describe potential aesthetic changes that may occur as a result of weathering.

- d. Identify constituents or minerals and the extent to which they may lead to staining and color change of the surface of the stone resulting from exposure to the weather.
 - e. Identify and estimate proportions of constituents that may be susceptible to deterioration from attack by deicing agents.
 - D. Granite: Dutchman repairs will be required on some of the granite units. The Contractor shall identify no less than three (3) potential granite sources for use in fabricating the repair pieces for the dutchman repairs that aesthetically match the existing granite. The Contractor shall extract a sample of the existing granite at a location indicated by the Engineer. The Contractor shall submit the sample of existing granite together with samples from the three (3) selected new granites for testing in accordance with ASTM C1721:
 - 1. Compare characteristics of the new limestone specimens with specimens of the original limestone.
 - 2. Establish whether the specimen contains chemically unstable minerals or volumetrically unstable materials
 - 3. Identify weathered or otherwise altered constituents or minerals and describe potential aesthetic changes that may occur as a result of weathering.
 - 4. Identify constituents or minerals and the extent to which they may lead to staining and color change of the surface of the stone resulting from exposure to the weather.
 - 5. Identify and estimate proportions of constituents that may be susceptible to deterioration from attack by deicing agents.
 - E. Preconstruction Sealant Compatibility and Adhesion Testing: Submit to joint-sealant manufacturers, for compatibility and adhesion testing according to sealant manufacturer's standard testing methods and Section 07 92 00 "Joint Sealants," Samples of materials that will contact or affect joint sealants.
 - F. Preconstruction Field Testing of Sealants: Before installing joint sealants, field test their adhesion to joint substrates according to Section 07 92 00 "Joint Sealants."
- 1.11 MOCKUPS, GENERAL
- A. In-Place Mockups: In-place mockups shall be performed to demonstrate aesthetic effects and to set quality standards for materials and execution and for preservation, fabrication, and installation.
 - B. Obtain Engineer and GSD's acceptance of execution methods, visual qualities, and performance before proceeding with the restoration work. Retain mockup in undisturbed condition, with approved areas suitably and clearly marked, during construction as a standard for judging completed work.
 - C. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Engineer specifically approves such deviations in writing.
 - D. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.12 SCHEDULE OF MOCKUPS

- A. Repointing Mockups: Perform in-place mockups of repointing on existing surfaces to demonstrate aesthetic effects and to set quality standards for materials and execution.
1. Mortar Extraction: With Engineer present, remove the existing mortar in two separate areas to depths of $\frac{1}{4}$ inch and $\frac{3}{4}$ inch in preparation for repointing, demonstrating that the selected methods will not damage the masonry units. Each area shall comprise three courses and two head joints in each course.
 2. Repointing: After acceptance by the Engineer and GSD of the joint preparation methods, repoint the area with mortar removal to a depth of $\frac{3}{4}$ inch using the approved repointing mortar with Engineer present. Demonstrate the methods for joint cleaning, pre-wetting, mortar preparation, joint filling, joint finishing, and curing.
- B. Stone Repair Mockups: Perform in-place mockups of stone repairs with Engineer and GSD present to observe preparation, materials, and execution of repair procedures. Perform in-place repair mockups for each type of stone indicated and each condition to have repair work performed. Demonstrate quality of materials, workmanship, aesthetics, and blending with existing material.
1. Each type of repair mockup shall be performed at each of the following conditions:
 - a. Salvaged limestone in laydown area
 - b. Salvaged limestone in fabrication shop
 - c. Salvaged granite in laydown area
 - d. Existing limestone remaining in place
 2. Include the following as a minimum:
 - a. Crack Injection Repair: Demonstrate crack injection repair in two separate units
 - b. Patch Repairs: Three small patches 1 inch by 2 inches in size for each type of stone indicated to be patched, so as to leave no evidence of repair.
 - c. Dutchman Repairs: Perform large dutchman repair (minimum 100 cubic inch in size) demonstrating epoxy joint width within tolerances, match of epoxy to existing stone color, and finish of dutchman to match existing stone finish.
 3. Final review and approval of patching material aesthetics will performed at least three weeks after completion of stone patching mockup to allow for color changes in patch material during curing period. Contractor shall include adequate time in project schedule for mockup curing period.
- C. Installation Mockups: First installation or reinstallation of each masonry type, shape, and location shall serve as an in-place mockup to demonstrate aesthetic effects and to set quality standards for materials and execution and for preservation, fabrication, and installation.
1. As part of each installation mockup, demonstrate each of the following, as applicable, with Engineer and GSD present to observe the means and methods employed:
 - a. Evaluation of preinstallation conditions
 - b. Brick joint conditions and preparation
 - c. Limestone joint conditions and preparation

- d. Dowel replacement
 - e. Reinforcement installation
 - f. Setting bed application
 - g. Pedestal installation
 - h. Stone unit installation
 - i. Joint mortar installation, finishing, and curing
 - j. Sealant joint installation
2. At a minimum, first in-place mockups will be performed at the following conditions. Based on conditions observed in the field, additional in-place mockups may be required.
- a. Brick backup wall repointing
 - b. Stone joint pointing
 - c. Brick replacement
 - d. Lintel replacement
 - e. Wall panels
 - f. Cornice stones
 - g. Coping stones
 - h. First tread row at side stair
 - i. First tread row at lower flight
 - j. Platform pavers integration with lower flight
 - k. Platform pavers integration with side walls/balustrade
 - l. Platform pavers integration with trench drain
 - m. First doweled tread row at middle flight and integration with trench drain
 - n. Second typical tread row at middle flight
 - o. Tread integration with check wall panels
 - p. Intermediate landing pavers
 - q. Top row at upper flight beneath column plinths
 - r. Portico edge pavers
 - s. Portico paver integration with railing posts and sleeves
 - t. Portico field pavers
 - u. Expansion joints
- D. Stone Cleaning Mockups: Prepare mockups of cleaning on existing surfaces to demonstrate aesthetic effects and to set quality standards for materials and execution.
1. Cleaning: Clean an area approximately 25 sq. ft. for each type of masonry and surface condition.
- a. Test cleaners and methods on samples of adjacent materials for possible adverse reactions. Do not test cleaners and methods known to have deleterious effect.
 - b. Allow a waiting period of not less than seven days after completion of sample cleaning to permit a study of sample panels for negative reactions.

1.13 DELIVERY, STORAGE, AND HANDLING

- A. Deliver packaged materials to Project site in manufacturer's original and unopened containers, labeled with manufacturer's name and type of products.

- B. Deliver stone to Project site strapped together in suitable packs or pallets or in heavy-duty crates and protected against impact and chipping.
- C. Deliver each piece of stone with code mark or setting number engraved on unexposed face, corresponding to Drawings.
- D. Handle stone to prevent overstressing, chipping, defacement, and other damage.
- E. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.
- F. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.
- G. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- H. Store hydrated lime in manufacturer's original and unopened containers. Discard lime if containers have been damaged or have been opened for more than two days.
- I. Store lime putty covered with water in sealed containers.
- J. Store sand where grading and other required characteristics can be maintained and contamination avoided.
- K. Store liquids in tightly closed containers protected from freezing.
- L. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.14 FIELD CONDITIONS

- A. Protect stone during installation by doing the following:
 - 1. Cover tops of stone cladding installation with non-staining, waterproof sheeting at end of each day's work. Cover partially completed structures when work is not in progress. Extend cover a minimum of 24 inches down both sides and hold securely in place.
 - 2. Prevent staining of stone from mortar, grout, sealants, and other sources. Immediately remove such materials without damaging stone.
 - 3. Protect base of walls from rain-splashed mud and mortar splatter by coverings spread on ground and over wall surface.
 - 4. Protect sills, ledges, and projections from mortar and sealant droppings.
- B. Environmental Limitations for Sealants: Do not install sealants when ambient and substrate temperatures are outside limits permitted by sealant manufacturer or below 40 deg F or when joint substrates are wet.

- C. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
 - 1. Vertical surfaces: Extend cover a minimum of 24 inches down both sides of walls, and hold cover securely in place.
 - 2. Horizontal surfaces: Completely cover new masonry and keep protected from rain and all forms of moisture. Cover shall be securely held in place.
- D. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed. Immediately remove grout, mortar, and soil that come in contact with masonry.
 - 1. Protect walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
 - 2. Protect sills, ledges, and projections from mortar droppings.
 - 3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
 - 4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.
- E. Temperature Limits: Repair stonework and repoint mortar joints only when air temperature is between 40 and 90 deg F and is predicted to remain so for at least seven days after completion of the Work unless otherwise indicated.
- F. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit repointing work to be performed according to product manufacturers' written instructions and specified requirements.
- G. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602.
 - 1. Comply with the following procedures for mortar-joint pointing unless otherwise indicated:
 - a. When air temperature is below 40 deg F, heat mortar ingredients and existing stone to produce temperatures between 40 and 120 deg F.
 - b. When mean daily air temperature is below 40 deg F, provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for seven days after pointing.
 - c. No admixtures or calcium chloride shall be added to the mortar to lower the freezing point of the mortar.
 - 2. Comply with the following procedures for stone repair unless otherwise indicated:
 - a. When mean daily air temperature is below 40 deg F, provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for seven days after repair.

3. Use liquid cleaning methods only when air temperature is 40 deg F and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.
- H. Hot-Weather Requirements: Protect stonework repairs and mortar-joint pointing when temperature and humidity conditions produce excessive evaporation of water from mortar materials. Provide artificial shade and wind breaks, and use cooled materials as required to minimize evaporation. Do not apply mortar to substrates with temperatures of 90 deg F and above unless otherwise indicated. Comply with hot-weather construction requirements contained in TMS 602.
- I. For manufactured repair materials, perform work within the environmental limits set by each manufacturer.
- J. Protect adjacent assemblies from restoration materials. Protect ledges and projections from mortar droppings.

1.15 CATALOGING OF STONE UNITS

- A. Cataloging: Contractor shall maintain the log of all removed stone units developed during Phase I of the project, including stone removed during this phase of the project and the catalog sheets and photographs from the Phase-1 project. The completed catalog shall be submitted and approved by the Engineer and GSD prior to substantial completion. The Stone Catalog shall include the following components:
 1. Survey Sheets: Comprehensive collection of completed and signed survey sheets for all stone units, including updated quantities to reflect actual repairs performed.
 2. Photographs: Comprehensive digital collection of all photographs for each stone unit, including photographs from the Phase-1 project. Photographs shall be included for pre-removal, post-removal/post-placement in storage, post-repair/pre-installation, and post-installation. The filename for each photograph shall include the unique stone Identification Number.
 3. Database: Develop an electronic database recording and summarizing all the information contained on the individual survey sheets and listing the filenames for the photographs of each stone unit. All information shall be keyed to each stone's unique Identification Number. The Contractor shall backcheck all information in the database against the completed and signed survey sheets prior to submitting to the GSD and Engineer.
 4. The stone documentation shall include the following information for each stone unit:
 - a. Identification Number
 - b. Location of stone unit original installation, coordinated with Drawings
 - c. Dimensions of stone unit.
 - d. For stone indicated to be removed:
 - 1) Description of any pre-existing damage to stone unit prior to removal, including erosion, chips, spalls, staining, or discoloration.
 - 2) Photographs of all exposed surfaces of stone unit prior to removal. Include detailed photographs of damaged areas of unit.
 - 3) Photographs of all surfaces of stone unit immediately after removal and prior to transportation to storage area.

- e. Indicate the following for each stone unit.
 - 1) Whether stone unit was replaced.
 - 2) Provide photographs and diagrams of repair areas and actual quantities of repairs performed.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Stone: Obtain each variety of stone from single quarry with resources to provide materials of consistent quality in appearance and physical properties.
 - 1. For stone types that include same list of varieties and sources, provide same variety from same source for each.
 - 2. Make quarried blocks available for examination by Engineer.
- B. Mortar Materials: Obtain mortar ingredients of uniform quality for each cementitious component from single manufacturer and each aggregate from single source or producer.
- C. Repair Material: Obtain each type of repair material for repairing historic masonry (patching mortar, crack injection grout, etc.) from single source with resources to provide materials of consistent quality in appearance and physical properties.

2.2 GRANITE

- A. Granite for Granite Dutchman Repairs: Natural granite stone of variety, color, texture, grain, veining, and finish as existing granite.
 - 1. Samples shall comply with minimum requirements of ASTM C615.
 - a. Absorption: Not greater than 0.4% according to ASTM C97.
 - b. Density: Minimum value of 160 pcf according to ASTM C97.
 - c. Stone Abrasion Resistance: Minimum hardness value of 25, based on testing according to ASTM C1353.
 - d. Compressive Strength: 19,000 psi minimum according to ASTM C170.
 - e. Modulus of Rupture: 1,500 psi minimum according to ASTM C99.
 - f. Flexural Strength: 1,200 psi minimum according to ASTM C880.

2.3 LIMESTONE

- A. Salvaged Limestone: Limestone units previous broken during removal and indicated to be replaced shall be retained and used for fabricating dutchman pieces.
- B. Paving slabs and replacement stair treads made from limestone complying with ASTM C568/C568M.
 - 1. Classification: II Medium-Density.

2. Absorption: Not greater than 3% according to ASTM C97.
 3. Density: Minimum value of 148 pcf according to ASTM C97.
 4. Stone Abrasion Resistance: Minimum hardness value of 10, based on testing according to ASTM C1353.
 5. Compressive Strength: 4500 psi minimum (wet and dry, parallel and perpendicular loading) according to ASTM C170.
 6. Modulus of Rupture: 1,300 psi minimum (wet and dry, parallel and perpendicular loading) according to ASTM C99.
 7. Flexural Strength: 1,100 psi minimum (wet and dry, parallel and perpendicular loading) according to ASTM C880.
- C. Indiana Limestone Grade and Color: Match grade and color and texture of existing stone.
1. Design Basis: Select, buff, according to grade and color classification established by ILIA.
- D. Cut stone from one block or contiguous, matched blocks in which natural markings occur.
- E. Finish: Match sand rubbed finish of existing stone.
- F. Match existing stone for color, finish, texture and other stone characteristics relating to aesthetic effects.
- G. Dimensions: Match existing stone dimensions for each shape and type, as indicated in the Drawings.
- H. Quarrying New Stone: Have quarry clearly label the direction of rift or bedding planes when rough stone is quarried, to facilitate cutting stones so that natural bedding planes are as required.

2.4 MANUFACTURED REPAIR MATERIALS

- A. Stone-Patching Compound: Factory-mixed cementitious product that is custom manufactured for patching stone.
1. Products: subject to compliance with requirements, provide a stone patching mortar from one of the following manufacturers:
 - a. Cathedral Stone Products, Inc.
 - b. Conproco Corporation.
 - c. Edison Coatings, Inc.
 - d. US Heritage Group
 2. Material Properties:
 - a. Minimum Compressive Strength: 3,000 psi according to ASTM C109
 - b. Minimum Bond Strength: 1,500 psi according to ASTM C882
 - c. Minimum Flexural Strength: 1,500 psi according to ASTM C348
 - d. Modulus of Elasticity Range: 1,800 – 2,000 ksi
 - e. Maximum Absorption: 16% according to ASTM C1403

3. Use formulation that is vapor and water permeable (equal to or more than the stone), exhibits low shrinkage, has lower modulus of elasticity than the stone units being repaired, and develops high bond strength to all stone types.
 4. Use formulation having working qualities and retardation control to permit forming and sculpturing where necessary.
 5. Formulate patching compound in colors, textures, and grain to match stone being patched. Provide sufficient number of colors, texture and variation to enable matching each piece of stone. It may be necessary to incorporate several different patch colors and mixes into a single patch area in order to fully replicate the natural variances in the appearance of the stone.
- B. Cementitious Crack Filler: Ultrafine super-plasticized grout that can be injected into cracks, is suitable for application to wet or dry cracks in limestone, slightly expands during the curing process, and develops high bond strength to all stone types. Made only from natural moderately hydraulic lime pre-blended with engineered aggregate blends and mineral pigments (where necessary) formulated to match existing stone color.
1. Do not use grouts containing portland cement, polymers, or admixes of any kind.
 2. Lime should contain a range of 12% to 18% active hydraulic components.

2.5 STONE ACCESSORY MATERIALS

- A. Stone Anchor Pins: Type and size indicated in the Drawings for anchoring stone patch and dutchman repairs. Fabricate from Type 304 stainless steel.
- B. Masking Tape: Non-staining, non-absorbent material; compatible with mortar, joint primers, sealants, and surfaces adjacent to joints; and that easily comes off entirely, including adhesive.
- C. Stone Setting Epoxy for Dutchman Repairs: Exterior grade structural epoxy suitable for bonding, laminating, and re-attaching two pieces of stone. Pre-colored to match color of stone being repaired.

2.6 STONE ACCESSORIES

- A. Setting Buttons and Shims: Resilient plastic, non-staining to stone, sized to suit joint thicknesses and bed depths of stone units, less the required depth of pointing materials unless removed before pointing.
- B. Setting Shims: Strips of resilient plastic, nonstaining to stone, of thickness needed to prevent point loading of stone on anchors and of depths to suit anchors without intruding into required depths of pointing materials.
- C. Setting Buttons: Resilient plastic buttons, nonstaining to stone, sized to suit joint thicknesses and bed depths of stone units without intruding into required depths of pointing materials.
- D. Sealants for Joints in Stone: Section 07 92 00 "Joint Sealants" and do not stain stone:
- E. Compressible Filler: Pre-molded filler strips complying with ASTM D1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene.

2.7 BRICK

A. Brick for Tread Pedestals: ASTM C62, Grade SW.

1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 4000 psi .
2. Size (Actual Dimensions): Manufacturer's standard modular brick.
3. Application: Use for support of stone stair treads above concrete stair slabs. Face brick complying with requirements for grade, compressive strength, and size indicated for building brick may be substituted for building brick.

B. Replacement brick for brick backup walls: ASTM C216, Grade SW.

1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 3000 psi.
2. Size (Actual Dimensions): Match existing brick dimensions, color and texture.

C. Replacement brick for interior partition walls: ASTM C216, Grade MW.

1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 1500 psi.
2. Size (Actual Dimensions): Match existing brick dimensions, color and texture.

2.8 MORTAR MATERIALS

A. The intent is for the mortar used for repair work to be fabricated to replicate the original mortar based on mortar analysis. Based on the results of the mortar analysis and approved mortar mixes, the materials incorporated into the mortar shall comply with the following requirements. It is not anticipated that that all of the following materials will be incorporated into the final mix design.

1. Portland Cement: ASTM C150/C150M, Type I.

- a. White portland cement shall be used for mortar in contact with limestone.
- b. White, gray, blended white/gray portland cement may be used for mortar solely in contract with brick or granite.
- c. Provide cement containing not more than 0.60 percent total alkali when tested according to ASTM C114.
- d. Provide cement containing not more than 0.03 percent water-soluble alkali when when determined in accordance with procedure #15, calculation #16 of ASTM C91.

2. Hydrated Lime: ASTM C207, Type S.

3. Factory-Prepared Lime Putty: ASTM C1489.

4. Quicklime: ASTM C5, pulverized lime.

5. Mortar Sand: ASTM C144 unless otherwise indicated.

- a. Match size, texture, and gradation of existing mortar sand as closely as possible. Blend several sands if necessary to achieve suitable match.

- b. Colored Mortar: Natural sand or ground marble, granite, or other sound stone of color necessary to produce required mortar color.
 - c. For exposed mortar, provide sand with rounded edges.
- 6. Mortar Pigments: If it is not feasible to match the color of the original mortar using the blended sand and cementitious materials, provide only natural and synthetic iron oxides compounded for mortar mixes and conforming to ASTM C979. Use only pigments with a record of satisfactory performance in historic masonry mortars
- 7. Water: ASTM C270, potable.
- B. Stainless Steel Welded Wire Mesh Mats: ASTM A1022/A1022M, Type 316, deformed.
- C. WWF Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening welded-wire reinforcement in place.
 - 1. Manufacture bar supports from steel wire in accordance with CRSI's "Manual of Standard Practice," of greater compressive strength than concrete and as follows:
 - a. For stainless steel reinforcement, use CRSI Class 2 stainless steel bar supports.
- D. Stainless Steel Tie Wire: ASTM A1022/A1022M, not less than 0.0508 inch diameter. Use for stainless steel reinforcement.

2.9 MORTAR ACCESSORY MATERIALS

- A. Masking Tape: Non-staining, non-absorbent material; compatible with mortar, joint primers, sealants, and surfaces adjacent to joints; and that easily comes off entirely, including adhesive.
- B. Other Products: Select materials and methods of use based on the following, subject to approval of a mockup:
 - 1. Previous effectiveness in performing work involved.
 - 2. Minimal possibility of damaging exposed surfaces.
 - 3. Consistency of each application.
 - 4. Uniformity of the resulting overall appearance.
 - 5. Do not use products or tools that could do the following:
 - a. Remove, alter, or harm the present condition or future preservation of existing surfaces, including surrounding surfaces not in contract.
 - b. Leave residue on surfaces.

2.10 LINTELS

- A. Lintels are specified in Section 05 12 83 "Structural Steel Repairs."

2.11 MORTAR MIXES

- A. General: Mortar mixes shall be coordinated with preconstruction testing to verify properties of existing mortar. Due to the historical nature of the building, the intent shall be to match the

aesthetics of the existing mortar properties to the greatest extent possible without compromising the performance and longevity of the masonry assembly.

- B. Proportioning: Establish mortar proportions through preconstruction testing to match existing materials.
- C. Measurement and Mixing: Measure cementitious materials and sand in a dry condition by volume or equivalent weight. Do not measure by shovel; use known measure. Mix materials in a clean, mechanical batch mixer.
 - 1. Mixing Pointing Mortar: Thoroughly mix cementitious materials and sand together before adding any water. Then mix again, adding only enough water to produce a damp, unworkable mix that will retain its form when pressed into a ball. Maintain mortar in this dampened condition for 15 to 30 minutes. Add remaining water in small portions until mortar reaches desired consistency. Use mortar within one hour of final mixing; do not retemper or use partially hardened material.
- D. Reference Mortar Mix: Following is the mortar mix contained in the original building specification for the “cut stone work.” It is included here solely as a reference in developing the mortar mix for the project. Based on the differences between historic and modern material, it is anticipated that the mix proportions for the project will differ from the historic mix. The following information is provided verbatim:
 - 1. 1 part non-staining cement
 - 2. 2 ½ parts clean, sharp, white sand
 - 3. 10% putty
- E. Colored Mortar: Produce mortar of color required by using specified ingredients. Do not alter specified proportions without Engineer's approval.
 - 1. Aggregates: Mortar color shall primarily be established through careful selection of matching aggregates.
 - 2. Mortar Pigments: Mortar pigments should be avoided unless a match cannot be reasonably made through selection of matching aggregates and their use is expressly approved in writing by the Engineer. Where mortar pigments are approved for use by Engineer, do not add pigment exceeding 10 percent by weight of the cementitious or binder materials, except for carbon black, which is limited to 2 percent, unless otherwise demonstrated by a satisfactory history of performance.
- F. Use portland cement-lime mortar unless otherwise indicated.
- G. Admixture Limitation: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise approved in writing by the Engineer.
 - 1. Do not use calcium chloride in mortar.
- H. Sufficient water (or latex additive where approved) shall be added to mortar mixes to ensure complete hydration of all hydraulic cementitious materials. The use of dry-pack mortars is not acceptable.

- I. Pointing Mortar: Pointing mortar and its constituents shall meet the requirements of ASTM C1713. For bid purposes, the mortar shall be assumed to be proportioned in accordance with ASTM C270, Type N, with the following proportions. The actual proportions shall be developed based on the results of the preconstruction testing.
 - 1. Portland cement: 1 part
 - 2. Hydrated lime: 1 part
 - 3. Aggregate: 6 parts
- J. Brick Unit Masonry: Mortar for brick unit masonry constituents shall meet the requirements of ASTM C1713.
 - 1. For exterior, above-grade, load-bearing, nonload-bearing walls, and parapet walls; for interior load-bearing walls; for interior nonload-bearing partitions; and for other applications where another type is not indicated, mortar shall be proportioned in accordance with ASTM C270, Type N, with the following proportions:
 - a. Portland cement: 1 part
 - b. Hydrated lime: 1 part
 - c. Aggregate: 6 parts
 - 2. For interior nonload-bearing partitions, mortar in accordance with ASTM C270, Type N, with the following proportions may be used in lieu of Type N:
 - a. Portland cement: 1 part
 - b. Hydrated lime: 2 part
 - c. Aggregate: 9 parts
- K. Setting Mortar: Mortar for use in setting stone wall panels, cornices, copings, stair treads, and pedestal-supported pavers. Setting mortar and its constituents shall meet the requirements of ASTM C1713.
 - 1. For Setting Granite: For bid purposes, the mortar shall be assumed to be proportioned in accordance with ASTM C270, Type S, with the following proportions. The actual proportions shall be developed based on the results of the preconstruction testing.
 - a. Portland cement: 1 part
 - b. Hydrated lime: $\frac{1}{2}$ part
 - c. Aggregate: $4\frac{1}{2}$ parts
 - 2. For Setting Limestone: For bid purposes, the mortar shall be assumed to be proportioned in accordance with ASTM C270, Type N, with the following proportions. The actual proportions shall be developed based on the results of the preconstruction testing.
 - a. Portland cement: 1 part
 - b. Hydrated lime: 1 part
 - c. Aggregate: 6 parts
- L. Setting Mortar Bond Coat: For application over faces of brick backups and backsides of vertical wall panels. Mix neat cement and water to a creamy consistency.

2.12 LIMESTONE FABRICATION

- A. General: Fabricate limestone stone units in sizes and shapes required to comply with requirements indicated.
 - 1. For limestone, comply with recommendations in ILI's "Indiana Limestone Handbook."
- B. Shop Drawings: The dimensions, cross section, profile, finish, and ID number for each stone shall be indicated on the Shop Drawings and submitted to the Engineer and GSD for approved. Fabricate work shall not begin until Shop Drawings have been approved. Fabrication work shall be performed in accordance with the approved Shop Drawings.
- C. Replacement Units: Fabricate new limestone units to match the appearance of the existing limestone.
 - 1. The following units are indicated to be replaced.
 - a. Middle flight tread 43Q
 - b. Middle flight tread 47EE
 - c. Middle flight tread 54PW
 - d. Middle flight tread 56FE
 - e. Middle flight tread 57Q
 - f. Upper flight tread 87MW
 - g. Portico paver 91Q
 - 2. The dimensions, cross section, profile, and finish of each replacement unit shall match the original unless noted otherwise.
 - a. Tread 54PW was not original construction and did not match the cross section and profile of the original treads. The intent is for replacement stone 54PW to match the cross section and profile of the adjacent, original treads.
 - 3. Each replacement unit shall be engraved on its back, unexposed side with "MADE 2023" in 3-inch-high characters. If desired, the fabrication company name may also be engraved on the back in characters not to exceed 1 inch in height.
- D. Platform Pavers: Fabricate platform pavers
 - 1. Thickness: 4 inches, plus or minus 1/8 inch.
- E. Dress joints (bed and vertical) straight and at right angle to face unless otherwise indicated. Shape beds to fit supports.
- F. Finish exposed faces and edges of stone to comply with requirements indicated for finish and to match existing stone and approved samples.
- G. Cut stone to produce uniform joints 3/8 inch wide and in locations indicated.
- H. Clean backs of stone to remove rust stains, iron particles, and stone dust.
- I. Inspect finished stone units at fabrication plant for compliance with requirements for appearance, material, and fabrication. Replace defective units.

1. Grade and mark stone for overall uniform appearance when assembled in place. Natural variations in appearance are acceptable if installed stone units match range of colors and other appearance characteristics represented in approved samples and mockups.

2.13 CLEANING MATERIALS

- A. Water: Potable.
- B. Hot Water: Water heated to a temperature of 140 to 160 deg F.
- C. Detergent Solution, Job Mixed: Solution prepared by mixing 2 cups of tetrasodium pyrophosphate (TSPP), 1/2 cup of laundry detergent, and 20 quarts of hot water for every 5 gal. of solution required.
- D. Mold, Mildew, and Algae Remover, Job Mixed: Solution prepared by mixing 2 cups of tetrasodium pyrophosphate (TSPP), 5 quarts of 5 percent sodium hypochlorite (bleach), and 15 quarts of hot water for every 5 gal. of solution required.
- E. Nonacidic Gel Cleaner: Manufacturer's standard gel formulation, with pH between 6 and 9, that contains detergents with chelating agents and is specifically formulated for cleaning masonry surfaces.
- F. Nonacidic Liquid Cleaner: Manufacturer's standard mildly alkaline liquid cleaner formulated for removing mold, mildew, and other organic soiling from ordinary building materials, including polished stone, brick, aluminum, plastics, and wood.
- G. Two-Part Chemical Cleaner: Manufacturer's standard system consisting of potassium- or sodium-hydroxide-based, alkaline prewash cleaner and acidic after-wash cleaner that does not contain hydrofluoric acid.
- H. Stripper for Sealant: Compound for removing sealant and sealant residues from natural stone surfaces. Stripper shall immediately emulsify in water. Stripper shall be suitable for use on limestone and granite.
- I. Stripper for Coatings: Thixotropic stripping compound designed for removing gum and tar from masonry surfaces. Stripper shall immediately emulsify in water. Stripper shall be suitable for use on limestone and granite.

2.14 CLEANING ACCESSORY MATERIALS

- A. Liquid Strippable Masking Agent: Manufacturer's standard liquid, film-forming, strippable masking material for protecting glass, metal, glazed masonry, and polished stone surfaces from damaging effects of acidic and alkaline masonry cleaners.
- B. Other Products: Select materials and methods of use based on the following, subject to approval of a mockup:
 1. Previous effectiveness in performing the work involved.
 2. Minimal possibility of damaging exposed surfaces.
 3. Consistency of each application.

4. Uniformity of the resulting overall appearance.
5. Do not use products or tools that could do the following:
 - a. Remove, alter, or harm the present condition or future preservation of existing surfaces, including surrounding surfaces not in contract.
 - b. Leave residue on surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
 1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
 2. Verify that reinforcing dowels are properly placed.
 3. Verify that substrates are free of substances that impair mortar bond. Make all necessary modification prior to proceeding with installation.
- B. Before installation, examine rough-in and built-in construction for piping systems to verify actual locations of piping connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.
- D. Examine surfaces indicated to receive unit paving, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.
- E. Examine waterproofing installation, with waterproofing Installer present, for protection from stone installation operations, including areas where waterproofing system is turned up or flashed against vertical surfaces.
- F. Proceed with installation only after unsatisfactory conditions have been corrected and waterproofing protection is in place.
- G. Engineer and GSD will meet with contractor on-site to review damage types, quantities, and each type of repair prior to approving repairs based on the stone survey sheets and quantities and locations shown on the Drawings.
- H. Examine substrates, areas, and conditions, with Engineer and installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the work.
- I. Prepare written report, endorsed by installer, listing conditions detrimental to performance of the work.
- J. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PROTECTION

- A. Prevent mortar from staining face of surrounding stone and other surfaces.
 - 1. Cover ledges and other projecting items to protect them from mortar droppings.
 - 2. Keep wall area wet below rebuilding and pointing work to discourage mortar from adhering.
 - 3. Immediately remove mortar splatters in contact with exposed stone and other surfaces.

3.3 BRICK MASONRY REPAIRS

- A. Brick masonry repairs will be performed at the following locations:
 - 1. Brick Backups: At brick masonry backups behind salvaged stone wall units, repoint mortar joints full and flush with brick face, in accordance with this Section. Remove and replace brick that are damaged or deteriorated.
 - 2. Brick Openings: At existing openings in interior brick indicated, infill openings with new brick to match the adjacent, original brick.
- B. Reinstall salvaged brick where possible. Replace removed damaged brick with salvaged backup brick in good condition, where possible, or with new building brick matching existing backup brick. Do not use broken units unless they can be cut to usable size. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow brick units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.
- C. Remove mortar and masonry units that are broken or deteriorated and replace with whole, new brick or whole salvaged backup masonry units. Carefully remove entire units from joint to joint, without damaging surrounding masonry, in a manner that permits replacement with full-size units.
- D. Where brick is removed, temporarily support and protect remaining masonry that surrounds removal area.
- E. Remove mortar and masonry units along perimeter of repair area that are broken or deteriorated and rebuild with whole. Carefully remove entire units from joint to joint, without damaging surrounding masonry, in a manner that permits replacement with full-size units.
- F. Install replacement brick at locations indicated matching bonding and coursing pattern of existing brick. Tooth replacement brick into existing brick at perimeter of each repair area. If cutting is required, use a motor-driven saw designed to cut masonry with clean, sharp, unchipped edges.
- G. Lay replacement brick with mortar and with completely filled bed, head, and collar joints. Butter ends with sufficient mortar to fill head joints and shove into place. Wet both replacement and surrounding bricks that have ASTM C67 initial rates of absorption (suction) of more than 30 g/30 sq. in. per min. Use wetting methods that ensure that units are nearly saturated but surface is dry when laid.

- H. Notify Engineer of unforeseen detrimental conditions, including voids, cracks, bulges, loose masonry units beyond the removal area, rotted wood, rusted metal, and other deteriorated items.
- I. Clean masonry surrounding removal areas by removing mortar, dust, and loose particles in preparation for brick replacement.
- J. Curing: Cure mortar by maintaining in thoroughly damp condition for at least 72 consecutive hours, including weekends and holidays.
 - 1. Hairline cracking within the mortar or mortar separation at edge of a joint is unacceptable. Completely remove such mortar and repoint.

3.4 LINTELS

- A. Remove and replace steel lintels where indicated.
- B. Support and protect remaining masonry that surrounds removal area during lintel replacement.
- C. Lintels shall be fully bedded in mortar where they bear onto brick.

3.5 STONE REPAIR, GENERAL

- A. Have repair work performed only by a qualified historic masonry contractor using trained tradespersons experienced in the types of repairs and materials in this Project.
- B. Repair Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 5 feet away by Engineer.

3.6 CRACK INJECTION REPAIRS

- A. General: Comply with cementitious crack-filler manufacturer's written instructions.
- B. Drill 1/4-inch-diameter injection holes as follows:
 - 1. Transverse Cracks Less Than 3/8 inch Wide: Drill holes through center of crack at 12 to 18 inches o.c.
 - 2. Transverse Cracks More Than 3/8 inch Wide: Drill holes through center of crack at 18 to 36 inches o.c.
 - 3. Delaminations: Drill holes at approximately 18 inches o.c., both vertically and horizontally.
 - 4. Drill holes 2 inches deep.
- C. Clean out drill holes and cracks with compressed air and water. Remove dirt and organic matter, loose material, sealants, and failed crack repair materials.
- D. Place plastic injection ports in drilled holes, and seal face of cracks between injection ports with clay or other non-staining, removable plugging material. Leave openings at upper ends of cracks for air release.

- E. Inject cementitious crack filler through ports sequentially, beginning at one end of area and working to opposite end; where possible, begin at lower end of injection area and work upward. Inject filler until it extrudes from adjacent ports. After port has been injected, plug with clay or other suitable material, and begin injecting filler at adjacent port, repeating process until all ports have been injected.
- F. Clean cementitious crack filler from face of stone before it sets, by scrubbing with water.
- G. After cementitious crack filler has set, remove injection ports, plugging material, and excess filler. Patch injection holes and surface of cracks as specified in "Stone Patching" Article.

3.7 STONE PATCH REPAIRS

- A. General: Where required and as directed by the Engineer and GSD, remove and patch only the portion of the limestone unit that is defective, as specified herein. Where repairs are required that are less than 6 inches by 6 inches with a depth less than 2 inches, patch shall be executed using limestone patching material.
- B. Patch the following stone units unless another type of repair or replacement is indicated:
 - 1. Units with holes.
 - 2. Units with chipped edges or corners
 - 3. Units with small areas of deep deterioration.
- C. For stone units where existing patches are in unsatisfactory condition:
 - 1. Remove and replace existing patches
 - 2. Remove deteriorated material, and remove adjacent material that has begun to deteriorate. Carefully remove additional material so patch does not have feathered edges but has square or slightly undercut edges on area to be patched and is at least 1/4 inch thick, but not less than as recommended in writing by patching compound manufacturer.
- D. Carefully remove defective portion of stone unit by making vertical and horizontal saw cuts at face of backing stone and removing defective material to a depth of at least 1/4 inch and not less than as required to reach sound stone, or as recommended in writing by patching compound manufacturer.
 - 1. Make edges of backing stone at cuts smooth and square to each other and to finished surface; essentially rectangular. Incline edges slightly to key patch material into repair area.
 - 2. Make back of removal area flat and parallel to stone face.
 - 3. Do not overcut at corners and intersections. Hand trim to produce clean, sharp corners with no rounding and with no damage to existing work to remain.
 - 4. If existing stone becomes further damaged, remove damaged area and enlarge partial replacement as required. If damaged area exceeds the limits for a small repair, execute repairs for large repair areas.
- E. Mask adjacent mortar joint or rake out for repointing if patch extends to edge of stone unit.

- F. Mix patching compound in individual batches to match each stone unit being patched. Combine one or more colors of patching compound, as needed, to produce exact match.
- G. Brush-coat stone surfaces with slurry coat of patching compound according to manufacturer's written instructions.
- H. Place patching compound in layers as recommended in writing by patching compound manufacturer, but not less than 1/4 inch or more than 2 inches thick. Roughen surface of each layer to provide a key for next layer.
 - 1. Simple Details: Trowel, scrape, or carve surface of patch to match texture and surrounding surface plane or contour of the stone. Shape and finish surface before or after curing, as determined by testing, to best match existing stone.
- I. Keep each layer damp for 72 hours or until patching compound has set.
- J. Remove and replace patches with hairline cracks or that show separation from stone at edges, and those that do not match adjoining stone in color or texture.
- K. All stone patches shall match the adjacent stone in color, profile and texture.

3.8 PARTIAL STONE REPLACEMENT (DUTCHMAN REPAIRS)

- A. Where indicated and where stone repairs are required that do not satisfy the conditions for a small patch repair, patch shall be executed using Dutchman repair techniques.
- B. Stone units which broke during removal will be used as material for fabricating dutchman pieces.
- C. Remove defective portion of existing stone unit (backing stone). Carefully remove defective portion of stone by making vertical and horizontal saw cuts at face of backing stone and removing defective material to depth required for fitting partial replacement (dutchman).
 - 1. Make edges of backing stone at cuts smooth and square to each other and to finished surface; essentially rectangular. Make back of removal area flat and parallel to stone face.
 - 2. Do not overcut at corners and intersections. Hand trim to produce clean sharp corners with no rounding and no damage to existing work to remain.
 - 3. If backing stone becomes further damaged, remove damaged area and enlarge partial replacement as required.
- D. Remove mortar from joints that abut area of stone removal to same depth as stone was removed. Remove loose mortar particles and other debris from surfaces to be bonded and surfaces of adjacent stone units that will receive mortar by cleaning with stiff-fiber brush.
- E. Cut and trim partial replacement to accurately fit area where material was removed from backing stone. Fabricate to size required to produce joints between partial replacement and backing stone of no more than 1/32 inch width, and to produce joints between partial replacement and other stones that match existing joints between stones. Cut partial replacement so that, when it is set in final position, natural bedding planes match the orientation of bedding planes of the backing stone unless otherwise indicated.

- F. Concealed Pinning: Before applying adhesive, prepare for concealed mechanical anchorage consisting of 1/4-inch-diameter, threaded stainless-steel pins set into 1/4-inch-diameter holes drilled into backing stone and into, but not through, the partial replacement.
 - 1. Center and space pins as indicated in the Drawings.
- G. Apply stone-to-stone adhesive according to adhesive manufacturer's written instructions. Coat bonding surfaces of backing stone and partial replacement, completely filling all crevices and voids.
- H. Apply partial replacement while adhesive is still tacky, and hold securely in place until adhesive has cured. Use shims, clamps, wedges, or other devices as necessary to align face of partial replacement with face of backing stone.
- I. Clean adhesive residue from exposed surfaces and patch chipped areas as specified in "Stone Patching" Article.

3.9 CLEANING MASONRY, GENERAL

- A. Have cleaning work performed only by qualified historic treatment contractor.
- B. Cleaning Appearance Standard: Cleaned surfaces are to have a uniform appearance as viewed from 20 feet away by Engineer.
- C. Proceed with cleaning in an orderly manner; work from bottom to top of each scaffold width and from one end of each elevation to the other. Maintain previously cleaned surfaces below work area wet and ensure that dirty residues and rinse water do not wash over dry, cleaned surfaces.
- D. Use only those cleaning methods indicated for each masonry material and location.
 - 1. Brushes: Do not use wire brushes or brushes that are not resistant to chemical cleaner being used.
 - 2. Spray Equipment: Use spray equipment that provides controlled application at volume and pressure indicated, measured at nozzle. Adjust pressure and volume to ensure that cleaning methods do not damage masonry.
 - a. Equip units with pressure gauges.
 - b. For chemical-cleaner spray application, use low-pressure tank or chemical pump suitable for chemical cleaner indicated, equipped with nozzle having a cone-shaped spray.
 - c. For water-spray application, use fan-shaped spray that disperses water at an angle of 25 to 50 degrees.
 - d. For heated water-spray application, use equipment capable of maintaining temperature between 140 and 160 deg F at flow rates indicated.
 - e. For steam application, use steam generator capable of delivering live steam at nozzle.

- E. Perform each cleaning method in a manner that results in uniform coverage of all surfaces, including corners, moldings, and interstices, and that produces an even effect without streaking or damaging masonry surfaces.
 - 1. Keep wall wet below area being cleaned to prevent streaking from runoff.
- F. Perform additional general cleaning, paint and stain removal, and spot cleaning of small areas that are noticeably different when viewed according to "Cleaning Appearance Standard" Paragraph, so that cleaned surfaces blend smoothly into surrounding areas.
- G. Water-Spray Application Methods:
 - 1. Water-Soak Application: Soak masonry surfaces by applying water continuously and uniformly to limited area for time indicated. Apply water at low pressures and low volumes in multiple fine sprays using perforated hoses or multiple spray nozzles. Erect a protective enclosure constructed of polyethylene sheeting to cover area being sprayed.
 - 2. Water-Spray Applications: Unless otherwise indicated, hold spray nozzle at least 6 inches from masonry surface, and apply water in horizontal back-and-forth sweeping motion, overlapping previous strokes to produce uniform coverage.
- H. Steam Cleaning: Apply steam to masonry surfaces at very low pressures indicated for each type of masonry. Hold nozzle at least 6 inches from masonry surface, and apply steam in horizontal back-and-forth sweeping motion, overlapping previous strokes to produce uniform coverage.
- I. Chemical-Cleaner Application Methods: Apply chemical cleaners to masonry surfaces according to chemical-cleaner manufacturer's written instructions; use brush or spray application.
 - 1. Do not use spray application within 20 feet of areas not indicated to be cleaned.
 - 2. Do not use spray application in wind speeds exceeding 5 mph to ensure that overspray is not carried onto surfaces not intended to be cleaned.
 - 3. Do not spray apply at pressures exceeding 50 psi.
 - 4. Do not allow chemicals to remain on surface for periods longer than those indicated or recommended in writing by manufacturer.
- J. Rinse off chemical residue and soil by working upward from bottom to top of each treated area at each stage or scaffold setting. Periodically during each rinse, test pH of rinse water running off of cleaned area to determine that chemical cleaner is completely removed.
 - 1. Apply neutralizing agent and repeat rinse if necessary to produce tested pH of between 6.7 and 7.5.
- K. After cleaning is complete, remove protection no longer required. Remove tape and adhesive marks.

3.10 CLEANING STONework

- A. Stone surfaces are to be cleaned using the gentlest means possible that will adequately remove existing staining. Sample areas should be tested to determine appropriate method of cleaning.

Sample areas should be such that cleaning techniques are demonstrated from the least abrasive to the most abrasive to determine the gentlest method possible to use at other locations.

- B. The following methods are considered acceptable and listed in ascending order based on severity or cleaning method:
 - 1. Hand cleaning with stiff fiber brush, water, and masonry cleaning detergent.
 - 2. Low pressure washing with potable water.
 - 3. Low pressure and masonry cleaning solution.
- C. Perform cleaning in a manner that results in uniform coverage of all surfaces, including corners, moldings, and interstices, and that produces an even effect without streaking or damaging masonry surfaces.
- D. Brushes: Do not use wire brushes or brushes that are not resistant to chemical cleaner being used.
- E. Spray Equipment: Use spray equipment that provides controlled application at volume and pressure indicated, measured at nozzle. Adjust pressure and volume to ensure that cleaning methods do not damage masonry.
 - 1. Equip units with pressure gauges.
 - 2. For chemical-cleaner spray application, use low-pressure tank or chemical pump suitable for chemical cleaner indicated, equipped with nozzle having a cone-shaped spray.
 - 3. For water-spray application, use fan-shaped spray that disperses water at an angle of 25 to 50 degrees.
 - 4. For heated water-spray application, use equipment capable of maintaining temperature between 140 and 160°F at flow rates indicated.
 - 5. For steam application, use steam generator capable of delivering live steam at nozzle.
- F. Chemical Cleaning:
 - 1. Apply cleaner to dry surface by deep nap roller and/or brush.
 - 2. Let cleaner remain on surface for period of approximately 5 minutes or as recommended in writing by chemical-cleaner manufacturer and established by mockup.
 - 3. Rinse with a pressure washer delivering water at a low pressure spray at a rate of 5 gallons per minute.
 - 4. Repeat application as necessary to achieve degree of cleaning as established by mockup.
 - 5. Apply chemical cleaners to masonry surfaces according to chemical-cleaner manufacturer's written instructions; use brush application. Do not allow chemicals to remain on surface for periods longer than those indicated or recommended in writing by manufacturer.
 - 6. Perform additional general cleaning, paint and stain removal, and spot cleaning of small areas that are noticeably different so that cleaned surfaces blend smoothly into surrounding areas.

3.11 TAR AND GUM REMOVAL

- A. Remove existing tar and gum from salvaged stone units using the gentlest means possible that will adequately remove the existing tar and gum and related stains, in accordance with approved Historic Stone Treatment Plan and approved Mockup.
- B. Apply approved tar and gum stripper in accordance with Manufacturer's written instructions and approved Mockup.
 - 1. Apply paint remover only to tar and gum by brush without prewetting and allow to remain on surface for 10 to 30 minutes, in accordance with the Manufacturer's instructions.
 - 2. Rinse stripper from surface using water.
 - 3. Repeat application if required.

3.12 SEALANT REMOVAL

- A. Remove existing mortar from salvaged stone units using the gentlest means possible that will adequately remove the existing sealant and sealant residue, in accordance with approved Historic Stone Treatment Plan and approved Mockup.
- B. Remove existing sealants by cutting the sealant flush with the face of the stone, leaving as little sealant as possible on the stone face without marring or damaging the stone face.
- C. Apply sealant stripper in accordance with Manufacturer's written instructions and approved Mockup. Rinse stripper from surface using water.

3.13 MORTAR REMOVAL FROM EXISTING STONES

- A. Carefully remove existing mortar and accumulations of rigid materials from salvaged stone units with sharp chisel, in accordance with approved Historic Stone Treatment Plan and approved Mockup.
- B. Do not scratch or chip masonry surface.
- C. When using chisels, chisel towards the center of the face, not the edge, to avoid spalling the edges of the existing stone.
- D. Do not use acids or other methods that may damage the stone.

3.14 STONE REINSTALLATION AND REPLACEMENT, GENERAL

- A. Reinstall salvaged stone units in original locations, as shown in the Drawings.
- B. Fabricate and install new platform pavers using joint pattern indicated in the Drawings.
- C. Where indicated, replace damaged stone with new stone matching existing stone.

1. Rift: Do not allow face bedding of stone. Before setting, inspect to verify that each new stone has been cut so that, when it is set in final position, the rift or natural bedding planes are predominantly horizontal. New stones with vertical bedding planes will be rejected.
- D. Before setting stone, clean surfaces that are dirty or stained by removing soil, stains, and foreign materials. Clean stone by thoroughly scrubbing with fiber brushes and then drenching with clear water. Use only mild cleaning compounds that contain no caustic or harsh materials or abrasives.
 1. Allow cleaned granite surfaces to dry before setting.
- E. Execute stone installation by skilled mechanics.
- F. Set stone to comply with requirements indicated. Set stone accurately in original locations and as shown in the Drawings with uniform joints of widths indicated, and with edges and faces aligned according to established relationships and indicated tolerances.

3.15 REINSTALLATION OF WALL STONE

- A. Inspect masonry and backup to verify substrate is sound and in good condition. Notify Engineer of conditions detrimental to stone installation.
- B. Set wall stone in full bed of mortar with completely filled bed, head, and collar joints in original location and as shown in the Drawings.
- C. Reinstall units in their original positions as shown in the Drawings
- D. Plane of stone shall not be altered, and installation shall take into account new materials being placed underneath, behind and adjacent to stones.
- E. Maintain joint width to match adjacent jointing.
- F. Wet limestone joint surfaces thoroughly before applying mortar.
- G. Use setting buttons of adequate size, in sufficient quantity, and of thickness required to maintain uniform joint width and to prevent mortar from extruding. Hold buttons back from face of stone a distance at least equal to width of joint, but not less than depth of pointing materials.
- H. Do not set heavy units or projecting courses until mortar in courses below has hardened enough to resist being squeezed out of joint.
- I. Reinstall existing anchors were present.
- J. Support and brace projecting cornice stones until coping stones above are in place and mortar has set.
- K. Provide nominal joint width to match existing joints, with variations not exceeding allowable tolerances.

- L. Joints: Point joints full-depth as soon as possible after initial set of setting bed with pointing mortar in accordance with this Section.
 - 1. Force mortar into joints, taking care not to smear mortar onto adjoining surfaces.
 - 2. Do not allow mortar to enter trench drains. Trap, collect, and remove mortar material.
 - 3. Tool exposed joints flush with stone surface when thumbprint hard.
 - 4. If tooling squeezes mortar from joints, remove excess grout and smears by dry brushing or rubbing with dry burlap and tool joints again to produce a uniform appearance.

3.16 STONE TREAD AND PAVING INSTALLATION, GENERAL

- A. Examination: At each area, inspect waterproofing assembly for damage or deficiencies prior to beginning stone installation.
 - 1. Immediately notify Engineer and GSD if damage or deficiencies are observed.
 - 2. Do not proceed with stone installation until waterproofing deficiencies have been corrected to the satisfaction of the Engineer and GSD.
- B. Installation over Waterproofing: Exercise care in placing stone and setting materials over waterproofing so protection materials are not displaced and waterproofing is not punctured or otherwise damaged. Carefully replace protection materials that become displaced and arrange for repair of damaged waterproofing before covering with paving.
 - 1. Provide joint filler and sealant at waterproofing that is turned up on vertical surfaces.
- C. Where stone pavers set in mortar bed are constructed adjacent to concrete pavers set in aggregate setting bed, install mortar-set pavers first and allow mortar to cure before placing aggregate setting bed and remainder of pavers. Cut off mortar bed at a steep angle so it will not interfere with aggregate setting bed.
- D. Wet joint surfaces thoroughly before applying mortar.
- E. Keep cavities open where unfilled space is indicated between back and underside of stone treads and deck; do not fill cavities with mortar or grout.

3.17 STONE TREAD AND PAVER INSTALLATION

- A. Inspect dowel placement and condition prior to setting pavers.
- B. Dry-set doweled pavers to verify locations of dowels and joint thickness prior to applying setting bed mortar.
- C. Verify size of brick pedestals for each tread based on actual measurements.
- D. Cut brick as necessary to obtain correct pedestal height.
 - 1. Pedestal brick shall be sized so that no mortar joints are greater than 3/8 inch after tread has been installed at its correct elevation.
- E. Bed pedestal brick in full bed of setting mortar.

1. Brick pedestals supporting stone units shall be located as follows:
 - a. Within 3 inches of the corners of each unit. Each pedestal shall be located completely within the footprint of the stone unit it is supporting. No pedestal shall support more than one stone unit.
 - b. For treads and pavers 5 inches to 8 inches in thickness, pedestals shall be spaced not greater than 5 feet apart each way.
 - c. For pavers less than 5 inches in thickness, pedestals shall be spaced not greater than 4 feet apart each way.
 2. Pedestal brick shall be bonded directly to the waterproofing wear surface and shall not bear on the drainage mat.
 3. Where extra pedestal height is required, lay pedestal using multiple courses of brick with each course fully bedded onto course below and strike joints flush with brick surface.
 4. At dowel locations, construct pedestal around dowel with gap between pedestal and dowel filled with mortar.
 5. Permit pedestal mortar to set prior to applying top layer of mortar for tread.
- F. Install tread onto full bed of setting mortar on brick pedestal.
1. Wet limestone joint surfaces thoroughly before applying mortar.
 2. At dowel locations, fill hole in underside of tread with mortar prior to setting tread.
 3. Use setting buttons of adequate size, in sufficient quantity, and of thickness required to maintain uniform joint width and to prevent mortar from extruding. Hold buttons back from face of stone a distance at least equal to width of joint, but not less than depth of pointing materials.
- G. Provide 3/8-inch nominal joint width unless noted otherwise, with variations not exceeding allowable tolerances.
- H. Joints: Point joints full-depth as soon as possible after initial set of setting bed in accordance with this Section.
1. Force mortar into joints, taking care not to smear grout on adjoining surfaces.
 2. Clean pavers as pointing progresses by dry brushing or rubbing with dry burlap to remove smears before tooling joints.
 3. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
 4. If tooling squeezes grout from joints, remove excess grout and smears by dry brushing or rubbing with dry burlap and tool joints again to produce a uniform appearance.

3.18 LIMESTONE PAVER INSTALLATION

- A. The limestone pavers adjacent to the trench drain shall be set using a mortar bed that is still plastic when the pavers are placed.
- B. Install welded-wire reinforcement in longest practicable lengths.
 1. Accurately position, support, and secure reinforcement against displacement.

2. Support welded-wire reinforcement on bolsters in accordance with CRSI "Manual of Standard Practice" so mesh becomes embedded in the middle of mortar bed.
 3. Hold edges back from vertical surfaces approximately 1 inch.
 4. Lap edges and ends of adjoining sheets at least one full mesh spacing plus 8 inches for deformed wire.
 5. Offset laps of adjoining sheet widths to prevent continuous laps in either direction.
 6. Lace overlaps with wire.
- C. Placement mortar bed against sides of trench drain, leaving no voids between trench drain and mortar setting bed.
- D. Place mortar bed with reinforcing wire fully embedded in middle of mortar bed. Spread and screed mortar bed to uniform thickness at subgrade elevations required for accurate setting of pavers to finished grades indicated.
- E. Mix and place only that amount of mortar bed that can be covered with pavers before initial set. Before placing pavers, cut back, bevel edge, and remove and discard setting-bed material that has reached initial set.
- F. Place pavers before initial set of cement occurs. Immediately before placing pavers on mortar bed, apply uniform 1/16-inch-thick bond coat to mortar bed or to back of each paver with a flat trowel.
- G. Tamp or beat pavers with a wooden block or rubber mallet to obtain full contact with setting bed and to bring finished surfaces within indicated tolerances. Set each paver in a single operation before initial set of mortar; do not return to areas already set or disturb pavers for purposes of realigning finished surfaces or adjusting joints.
- H. Provide 3/8-inch nominal joint width unless noted otherwise, with variations not exceeding allowable tolerances.
- I. Joints: Point joints full-depth as soon as possible after initial set of setting bed with pointing mortar in accordance with this Section.
1. Force mortar into joints, taking care not to smear mortar onto adjoining surfaces.
 2. Do not allow mortar to enter trench drains. Trap, collect, and remove mortar material.
 3. Tool exposed joints flush with stone surface when thumbprint hard.
 4. If tooling squeezes mortar from joints, remove excess grout and smears by dry brushing or rubbing with dry burlap and tool joints again to produce a uniform appearance.
- J. Expansion and Control Joints: Provide for sanded-sealant-filled joints at locations and of widths indicated. Provide compressible foam filler as backing for sealant-filled joints. Install joint filler before setting pavers. Sealant materials and installation are specified in Section 07 92 00 "Joint Sealants."
1. Keep expansion joints free of mortar and other rigid materials.

3.19 INSTALLATION TOLERANCES

- A. Variation from Plumb: For vertical lines and surfaces of walls, do not exceed 1/8 inch in 5 feet.

- B. Variation in Joint Width: Do not vary from average joint width more than plus or minus 1/16 inch. For joints within 60 inches of each other, do not vary more than 1/16 inch from one to the other.
- C. Finished Surface of Paving: Variation in Plane between Adjacent Stone Units (Lipping): Do not exceed 1/16-inch unit-to-unit offset from flush (lippage) between planes of adjacent units or 1/8 inch in 10 feet from level, or indicated slope.
- D. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch except due to warpage of masonry units within tolerances specified for warpage of units.
- E. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/16 inch.
- F. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/16 inch.

3.20 REPOINTING, GENERAL

- A. Have repointing work performed only by qualified historic treatment contractor.
- B. Perform repointing in accordance with ASTM E2260 and this Section.
- C. Appearance Standard: Repointed surfaces are to have a uniform appearance as viewed from 20 feet away by Engineer.

3.21 REPOINTING

- A. Repointing Sequence: Perform stone historic treatment work in the following sequence, which includes work specified in this Section:
 - 1. Remove any joint sealants and sealant residue present.
 - 2. Rake out mortar from joints adjacent to stone repairs along joints.
 - 3. Repair stonework, including reinstallation of salvaged stone.
 - 4. Rake out mortar from joints to be repointed.
 - 5. Point mortar joints.
 - 6. After repairs and repointing have been completed and cured, perform a final cleaning to remove residues from this work.
- B. Develop a matching pointing mortar in accordance with ASTM C1713 and this Section based on preconstruction testing in accordance with ASTM C1324.
- C. Rake out and repoint joints in areas indicated.
- D. Rake out joints as follows, according to procedures demonstrated in approved mockup:
 - 1. Performance Requirements: Raking out of joints shall be performed in a craftsman-like manner in compliance with the following requirements:

- a. Do not spall edges of masonry units or widen joints.
 - b. Do not overcut head joints into adjacent units.
 - c. Remove mortar from sides of joint without damaging sides of masonry units.
 - d. Do not round corners of masonry units.
2. Power-operated tools may not be used without Engineer's written approval based on approved quality-control program and successful demonstration of procedures in accordance with Project requirements on the repointing mockup.
 - a. Permit only experienced craftworkers to use power-operated tools.
 - b. Maintain control of tools at all times.
 - c. Cut out center of mortar bed joints using angle grinders with diamond-impregnated metal blades.
 - d. Remove remaining mortar in bed joints and mortar in head joints by hand with chisel and resilient mallet. Strictly adhere to approved quality-control program.
 - e. Do not mar, chip, spall, over cut or otherwise damage the existing masonry in any way.
3. Remove mortar from joints to depth of 2 times the joint width but not less than that required to expose sound, unweathered mortar. Do not remove unsound mortar more than 2 inches deep; consult Engineer for direction.
4. Remove mortar from stone surfaces within raked-out joints to provide reveals with square backs and to expose stone for contact with pointing mortar. Brush, vacuum, or flush joints to remove dirt and loose debris.
5. Replace or patch damaged stone units as directed by Engineer.
 - a. Cut out mortar by hand with chisel and resilient mallet. Do not use power-operated grinders without.
- E. Notify Engineer of unforeseen detrimental conditions, including voids in mortar joints, cracks, loose stone, rotted wood, rusted metal, and other deteriorated items.
- F. Pointing with Mortar:
 1. Rinse joint surfaces with water to remove dust and mortar particles. Time rinsing application so, at time of pointing, joint surfaces are damp but free of standing water. If rinse water dries, dampen joint surfaces before pointing.
 2. Apply pointing mortar first to areas where existing mortar was removed to depths greater than surrounding areas. Apply in layers not greater than 1/4 inch until a uniform depth is formed. Fully compact each layer thoroughly, and allow it to become thumbprint hard before applying next layer.
 3. After deep areas have been filled to same depth as remaining joints, point joints by placing mortar in layers not greater than 1/4 inch. Fully compact each layer, and allow it to become thumbprint hard before applying next layer. Where existing stone has worn or rounded edges, slightly recess finished mortar surface below face of stone to avoid widened joint faces. Take care not to spread mortar beyond joint edges onto exposed stone surfaces or to feather-edge the mortar.
 4. When mortar is thumbprint hard, tool joints to match original appearance of joints as demonstrated in approved mockup. Remove excess mortar from edge of joint by brushing.

5. Cure mortar by maintaining in thoroughly damp condition for at least 7 consecutive days, including weekends and holidays.
 - a. Acceptable curing methods include covering with wet burlap and plastic sheeting, periodic hand misting, and periodic mist spraying using system of pipes, mist heads, and timers.
 - b. Adjust curing methods to ensure that pointing mortar is damp throughout its depth without eroding surface mortar.
6. Hairline cracking within the mortar or mortar separation at edge of a joint is unacceptable. Remove defective mortar and repoint.

3.22 REPAIRING, POINTING, AND CLEANING

- A. Replace damaged or defective work in a manner that results in stone matching approved samples and mockups, complying with other requirements, and showing no evidence of replacement.
- B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.
- C. In-Progress Cleaning: As work progresses, clean stone with fiber brushes, mild soap detergent, and clean water. Mechanical cleaning, sand blasting, use of wire brushes, or acids shall not be permitted without prior approval.
- D. Remove mortar fins and smears before tooling joints. Remove excess sealant and smears as sealant is installed.
- E. After mortar has fully hardened, but no fewer than six days after completion of pointing, thoroughly clean exposed stone surfaces of excess mortar and foreign matter; use wood scrapers, stiff-nylon or -fiber brushes, and clean water applied by low-pressure spray.
 1. Do not use metal scrapers or brushes.
- F. Clean adjacent non-masonry surfaces of spillage and debris. Use detergent and soft brushes or cloths.
- G. Remove masking materials, leaving no residues that could trap dirt.
- H. Sweep and rake adjacent pavement and grounds to remove mortar and debris. Where necessary, pressure-wash pavement surfaces to remove mortar, dust, dirt, and stains.

3.23 FIELD QUALITY CONTROL

- A. Testing Agency: GSD may engage qualified testing agencies to perform tests and inspections. Allow inspectors access as needed, to perform inspections.

- B. Engineer's Project Representatives: Engineer will assign Project representatives to help carry out Engineer's responsibilities at the site, including observing progress and quality of portion of the Work completed. Allow Engineer's Project representatives use of lift devices and scaffolding, as needed, to observe progress and quality of portion of the Work completed.
- C. Manufacturer's Field Service: Engage chemical-cleaner manufacturer's factory-authorized service representatives for consultation and Project-site inspection, to perform preconstruction product testing, and provide on-site assistance when requested by Engineer. Have chemical-cleaner manufacturer's factory-authorized service representatives visit Project site not less than twice to observe progress and quality of the Work.
- D. Notify Engineer's and GSD's Project representatives in advance of times when lift devices and scaffolding will be relocated. Do not relocate lift devices and scaffolding until Engineer's and GSD's Project representatives have had reasonable opportunity to make inspections and observations of work areas at lift device or scaffold location.

3.24 MASONRY WASTE DISPOSAL

- A. Salvageable Materials:
 - 1. Stone: Excess stone materials are GSD's property. At end of historic masonry work, deliver to location indicated by the GSD.
 - 2. Brick, Mortar, and Accessories: Unless otherwise indicated, excess masonry materials other than stone are Contractor's property. At completion of historic masonry work, remove from Project site.
- B. Masonry Waste: Remove masonry waste and legally dispose of off Owner's property.
- C. Salvageable Materials: Excess stone materials shall be the property of the GSD. Deliver excess stone materials to location indicated by GSD.
- D. Stone Waste: Remove stone waste and legally dispose of off GSD's property.

END OF SECTION 04 03 50

SECTION 05 03 72

HISTORIC DECORATIVE METAL RAILING REPAIR

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Historic treatment of decorative metal in the form of repair as follows:
 - a. Replacement of broken framing
 - b. Restoration of decorative metal to original condition
 - c. Shop repairs and reinstallation of decorative metal railings.
 - d. Fabrication and installation of post sleeves.

- B. Related Requirements:

- 1. Section 07 92 00 "Joint Sealants"

1.3 REFERENCES

- A. ASTM B455/B455M-20 "Standard Specification for Copper-Zinc-Lead Alloy (Leaded-Brass) Extruded Shapes
- B. AWS D1.1-20 "Structural Welding - Steel"
- C. AWS D1.6/D1.6M-2017 "Structural Welding Code - Stainless Steel"
- D. ASTM A240/A240M-15a "Standard Specification for Chromium and Chromium-nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications"
- E. A666-15 "Standard Specification for Annealed or Cold-Welded Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar"
- F. A554-21 "Standard Specification for Welded Stainless Steel Mechanical Tubing"
- G. NAAMM'S "Metal Finishes Manual for Architectural and Metal Products (AMP 500-06)"

1.4 DEFINITIONS

- A. Low-Pressure Spray: 100 to 400 psi; 4 to 6 gpm.

1.5 SEQUENCING AND SCHEDULING

- A. Perform decorative metal repair in the following sequence, which includes work specified in this and other Sections:
 - 1. Disassemble guards and discard existing brass tubes.
 - 2. Examine condition of decorative bronze grills and railing caps. Notify Engineer if grills or caps are damaged.
 - 3. Clean decorative metal surfaces.
 - 4. Replace bronze framing members and reassemble railings.
 - 5. Fabricate and install new post sleeves.
 - 6. Reinstall repaired railings.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include recommendations for product application and use.
 - 2. Include test data substantiating that products comply with requirements.
- B. Shop Drawings:
 - 1. Include plans, elevations, and sections showing locations and extent of repair and replacement work, with enlarged details of replacement parts indicating materials, profiles, methods of attachment, accessory items, and finishes.
 - 2. Include field-verified dimensions and the following:
 - a. Full-size patterns with complete dimensions for new decorative metal components and their jointing, showing relation of existing to new components.
 - b. Identification of each new metal item and component and its location on the structure in annotated plans and elevations.
 - c. Provisions for sealant between decorative metal components and for sealant-type joints if required.
- C. Samples for Selection:
 - a. Bronze Stain Application: Apply bronze stain in different concentration ratios and numbers of coats to 1 inch by 1½ inch by 6-inch-long sections of bronze bars for comparison with existing bronze finishes on site and selection of the staining methods by the Engineer and GSD. Clearly label the ratios and coats for each section. Samples of each of the following applications shall be submitted for review and selection.
 - 1) Application 1: Unstained
 - 2) Application 2: 1 coat at a 1:1 ratio (concentrate to distilled water)

- 3) Application 3: 1 coat at a 3:1 ratio
- 4) Application 4: 3 coats at a 3:1 ratio

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For historic treatment contractor.
- B. Decorative Metal Historic Treatment Program: For repairing historic decorative metalwork.

1.8 QUALITY ASSURANCE

- A. Historic Treatment Contractor Qualifications: A qualified historic decorative metal repair contractor. Experienced in brazing of copper and copper alloys. Installing and finishing new decorative metal work is insufficient experience for decorative metal historic treatment work.
- B. Decorative Metal Historic Treatment Program: Prepare a written, detailed description of materials, methods, equipment, and sequence of operations to be used for historic decorative metal repair work, including each process or phase of repairing decorative metal, related work, and the protection of surrounding materials and Project site.
 - 1. If materials and methods other than those indicated are proposed for any phase of historic treatment work, add a written description of such materials and methods, including evidence of successful use on comparable projects, and demonstrations to show their effectiveness for this Project.
- C. Welding Qualifications: Qualify procedures and personnel in accordance with the following welding codes:
 - 1. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."
- D. Mockups: Prepare mockups of historic treatment repair processes to demonstrate aesthetic effects and to set quality standards for materials and execution and for fabrication and installation.
 - 1. Railing repair mockup: Perform complete repairs on one existing railing.
 - a. Approved railing mockup shall remain at fabrication shop for reference while performing repairs on other three railings.
 - b. Engineer and GSD will review railing mockup at shop if shop is located within 20 miles of Project site. Otherwise, transport railing mockup to Project Site for review by Engineer and GSD and back to shop after completion of review.
 - 2. Railing installation mockup: First installation shall serve as in-place mockup for railing reinstallation.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Engineer specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

PART 2 - PRODUCTS

2.1 METAL MATERIALS

- A. Provide metal materials made of the alloys, forms, and types that match existing metals and have the ability to receive finishes matching existing finishes unless otherwise indicated. Exposed-to-view surfaces exhibiting imperfections inconsistent with existing materials are unacceptable.
- B. Source Limitation for Replacement Cast Materials: Obtain castings for historic treatment of decorative metal from single source from single manufacturer with resources to provide materials of consistent quality in appearance and physical properties.
- C. Copper Alloys, Bronze:
 - 1. Extruded Shapes: ASTM B455, Alloy UNS No. C38500 (extruded architectural bronze, 57 percent copper, 40 percent zinc, and 3 percent lead).
- D. Stainless Steel Sheet, Strip, and Plate: ASTM A240/A240M or ASTM A666, Type 304.
- E. Stainless Steel Tubes: ASTM A554/A554M, Type 304.

2.2 BRONZE STAIN

- A. Antiquing Solution. Spray or brush antiquing solution formulated to age or darken the appearance of copy alloys.
 - 1. Basis of Design: Antique Brown M-38 Gel, by Birchwood Technologies.

2.3 PREPARATORY CLEANING MATERIALS

- A. Water: Potable.
- B. Hot Water: Water heated to a temperature of 140 to 160 deg F.
- C. Detergent Solution, Job Mixed: Solution prepared by mixing 2 cups of tetrasodium pyrophosphate (TSPP), 1/2 cup of laundry detergent, and 20 quarts of hot water for every 5 gal. of solution required.
- D. Abrasive Materials:
 - 1. Abrasive Pads: Non-scratch, of the following type(s):
 - a. Abrasive Pad with Sponge: Combination plastic abrasive pad, consisting of a sponge enclosed with a woven urethane, polypropylene, or other plastic mesh or fabric, without other abrasive components that can scratch metal.
 - b. Abrasive Pad of Plant Fibers: Agave, loofa, or another tough plant fiber, without other abrasive components that can scratch metal.

2. Medium Abrasives for Copper Alloys: Extra fine bronze wool or plastic abrasive pads.

- E. Wash Cloths: Lint-free, absorbent, durable cloth without abrasives that can scratch metal.

2.4 FASTENERS

- A. Fasteners: Fasteners of the same basic metal as fastened metal unless otherwise indicated. Use metals that are noncorrosive and compatible with each metal joined.
 1. Match existing fasteners in material and in type of fastener unless otherwise indicated.
 2. Use concealed fasteners for interconnecting decorative metal components and for attaching them to other work unless exposed fasteners are unavoidable.
 3. For exposed fasteners, use Phillips-type machine screws of head profile flush with metal surface unless otherwise indicated or another head is required to match the existing fastening method as determined by Engineer.
 4. Finish heads of exposed fasteners to match finish of metal fastened unless otherwise indicated.

2.5 ACCESSORIES

- A. Brazing Rods for Copper Alloys: Type and alloy as recommended in writing by brazing-rod manufacturer and as required for color match, strength, and compatibility in fabricated items.
- B. Welding Electrodes: Type recommended by AWS D1.6 for materials to be joined, with minimum strength of 58 ksi.
- C. Anchoring Cement: Factory-packaged, non-shrink, non-staining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
- D. Sealant Materials: See Section 07 92 00 “Joint Sealants.”

2.6 BRONZE FABRICATION

- A. Custom fabricate repairs of decorative metal items and components in sizes and profiles to match existing decorative metal unless otherwise indicated, with accurate curves, lines, and angles. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
- B. Provide uniform, neat seams with minimum exposure of brazing.
- C. Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing work. Drill and tap for fasteners. Use concealed fasteners where possible; use exposed fasteners to match existing work.
- D. Comply with AWS for recommended practices in brazing. Provide brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed joints of flux, and dress exposed and contact surfaces.

1. Use materials and methods that match color of base metal, minimize distortion, and develop maximum strength and corrosion resistance.
 2. Remove flux immediately.
 3. At exposed connections, match contours of adjoining surfaces, and finish exposed surfaces smooth and blended so no roughness shows after finishing.
- E. Date Identification: Emboss on a concealed, interior surface of the metal body of each new component, in easily read characters, "MADE 2023." Manufacturer's name may also be embossed. For malleable metals, stamp identification with an imprinting tool.

2.7 STAINLESS STEEL FABRICATIONS

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible.
- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- C. Weld corners and seams continuously to comply with the following:
1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 2. Obtain fusion without undercut or overlap.
 3. Remove welding flux immediately.

2.8 FINISHES, GENERAL

- A. Appearance of Finished Work: Intent of work is to restore finish of rails to original condition. Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.9 COPPER-ALLOY FINISHES

- A. Finish designations for copper alloys comply with the system defined in NAAMM's "Metal Finishes Manual for Architectural and Metal Products (AMP 500-06)."
- B. Finish: Select finish from following three options that best matches existing finish.
1. Buffed Finish: M21 (Mechanical Finish: buffed, smooth specular).
 2. Buffed Finish: M22 (buffed, specular mechanical finish).
 3. Satin Hand-Rubbed Finish: M32-M34 (Mechanical Finish: directionally textured, medium satin and hand-rubbed).

PART 3 - EXECUTION

3.1 PROTECTION

- A. Comply with each manufacturer's written instructions for protecting building and other surfaces against damage from exposure to its products. Prevent chemical solutions from coming into contact with people, motor vehicles, landscaping, buildings, and other surfaces that could be harmed by such contact.
 - 1. Cover adjacent surfaces with materials that are proved to resist chemical solutions being used unless products being used will not damage adjacent surfaces. Use protective materials that are waterproof and UV resistant. Apply masking agents to comply with manufacturer's written instructions. Do not apply liquid masking agent to painted or porous surfaces. When no longer needed, promptly remove masking to prevent adhesive staining.
 - 2. Do not apply chemical solutions during winds of enough force to spread them to unprotected surfaces.
 - 3. Neutralize alkaline and acid wastes before disposal.
 - 4. Dispose of runoff from operations by legal means and in a manner that prevents soil erosion, undermining of paving and foundations, damage to landscaping, and water penetration into building interiors.

3.2 HISTORIC DECORATIVE METAL REPAIR, GENERAL

- A. Repair Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 5 feet away by Engineer.
- B. Execution of the Work: In repairing historic items, disturb remaining existing work as minimally as possible and as follows:
 - 1. Restore finish to original condition.
 - 2. Stabilize decorative metal to reestablish structural integrity and weather resistance while maintaining the existing form of each item.
 - 3. Remove deteriorated coatings and corrosion.
 - 4. Repair items in the shop.
 - 5. Replace or reproduce historic items where indicated or scheduled.
 - 6. Make historic treatment of materials reversible whenever possible.
- C. Repairing Decorative Metal Items: Match existing materials and features, retaining as much original material as possible to complete the repair.
 - 1. Where indicated, repair decorative metal by limited replacement to the extent indicated, matching existing material.

3.3 PREPARATORY CLEANING

- A. Perform preparatory cleaning before performing repair work. Use only those methods indicated for each type of decorative metal and its location.

1. Brushes: If using wire brushes, use brushes of same base metal composition as metal being treated. Use brushes that are resistant to chemicals being used.
2. Spray Equipment: Use spray equipment that provides controlled application at volume and pressure indicated, measured at nozzle. Adjust pressure and volume to ensure that spray methods do not damage surfaces.
 - a. Equip units with pressure gages.
 - b. For water-spray application, use fan-shaped spray that disperses water at an angle of 25 to 50 degrees.
 - c. For high-pressure water-spray application, use fan-shaped spray that disperses water at an angle of at least 40 degrees.
 - d. For heated water-spray application, use equipment capable of maintaining temperature between 140 and 160 deg F at flow rates indicated.
3. Uniformity: Perform each cleaning method in a manner that results in uniform coverage of all surfaces, including corners, contours, and interstices, and that produces an even effect without streaks or damaging surfaces.
4. Protection: After cleaning is complete, remove protection no longer required. Remove tape and adhesive marks.

B. Detergent Cleaning:

1. Wet surface with hot water applied with sponges, wash cloths, or low-pressure spray.
2. Scrub surface with detergent solution and natural-fiber or plastic bristle brush until soil is thoroughly dislodged and can be removed by rinsing. Use small brushes to remove soil from joints and crevices. Dip brush in solution often to ensure that adequate fresh detergent is used and that surface remains wet. Leave uniform patina intact.
3. Rinse with hot water applied with low-pressure spray to remove detergent solution and soil.

3.4 BRONZE STAINING

1. Prepare bronze surface in accordance with stain manufacturer's instructions.
2. Apply bronze stain in accordance with stain manufacturer's instructions using approved application.
 - a. Apply gel to surface uniformly.
 - b. Lightly brushing surface with applicator during reaction time for time period necessary to achieve desired color and appearance.
 - c. Applicator shall keep track of time gel has been on surface at each section of the workpiece to maintain color uniformity throughout the piece.
 - d. Rinse gel completely from surface.
 - e. Repeat application if multiple-coat application was selected.

3.5 DISMANTLING, REPAIR, AND INSTALLATION

A. Installation, General:

1. Locate and place decorative metal items level and plumb and in alignment with adjacent construction.
 2. Use concealed anchorages where possible, unless otherwise indicated.
 3. Form tight joints with exposed connections accurately fitted together.
 4. Touch Up: At completion of installation, touch up and restore damaged or defaced finish surfaces and fastener heads.
- B. Installing Post Sleeves: Locate sleeves based on actual railing dimensions. Modify notches in existing stones to accept sleeves. Field-fit railings and obtain approval from Engineer and GSD prior to welding sleeves to structure. Weld sleeves to existing structure in accordance with AWS D1.6 requirements.
- C. Reinstalling Railing Posts: After posts have been inserted into sleeves, fill annular space between post and sleeve with non-shrink, non-metallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions. Leave anchorage joint exposed, wipe off surplus anchoring material flush with top of sleeve.
- D. Sealant: Clean and prepare joint surfaces and apply and cure sealant according to Section 07 92 00 "Joint Sealants."
1. Keep joints to receive sealant dry and free of debris.
 2. Prime joint surfaces unless sealant manufacturer recommends against priming. Do not allow primer to spill or migrate onto adjoining surfaces.
 3. Fill sealant-type joints with specified joint sealant as recommended in writing by sealant manufacturer and the following:
 - a. Install sealant using only proved installation methods that ensure sealant is deposited in a uniform, continuous ribbon, without gaps or air pockets, and with complete wetting of the joint bond surfaces equally on both sides. Fill joint flush with surrounding stone.
 - b. Do not allow sealant to overflow or spill onto adjoining surfaces or to migrate into the voids of adjoining surfaces, particularly rough or sculptural textures. Promptly remove excess and spillage of sealant as the work progresses. Clean adjoining surfaces by means necessary to eliminate evidence of spillage, without damage to adjoining surfaces or finishes, as demonstrated in an approved mockup.

3.6 FIELD QUALITY CONTROL

- A. Testing Agency: GSD may engage a qualified testing agency to perform tests and inspections.

END OF SECTION 05 03 72

SECTION 05 12 83

STRUCTURAL STEEL REPAIRS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Structural-steel materials for weld-plate repairs of existing structural steel members.
 - 2. Steel lintels for use in brick masonry walls.
- B. Related Requirements:
 - 1. Section 04 03 50 "Historic Unit Masonry"
 - 2. Section 09 96 00 "High-Performance Coatings" for coating requirements.

1.3 REFERENCES

- A. ANSI/AISC 303-16 "Code of Standard Practice for Steel Bridges and Buildings"
- B. ANSI/AISC 360-16 "Specification for Structural Steel Buildings"
- C. ASTM A6/6A6M-14 "Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes and Sheet Piling"
- D. ASTM A36/A36M-19 "Standard Specification for Carbon Structural Steel"
- E. ASTM A572/A572M-15 "Specification for High-strength Low-alloy Columbium-Vanadium Structural Steel"
- F. ASTM E94/E94M-17 "Standard Guide for Radiographic Examination Using Industrial Radiographic Film"
- G. ASTM E164-19 "Standard Practice for Contact Ultrasonic Testing of Weldments"
- H. ASTM E165/E165M-18 "Standard Practice for Liquid Penetrant Testing for General Industry"
- I. ASTM E709-21 "Standard Guide for Magnetic Particle Testing"

- J. AWS D1.1-20 "Structural Welding - Steel"

1.4 DEFINITIONS

- A. Structural Steel: Elements of the structural frame indicated on Drawings and as described in ANSI/AISC 303.

1.5 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.6 ACTION SUBMITTALS

- A. Product Data:
 - 1. Structural-steel materials.
 - 2. Welding electrodes.
- B. Welding Procedure Specifications (WPSs) and Procedure Qualification Records (PQRs): Provide in accordance with AWS D1.1/D1.1M for each welded joint whether prequalified or qualified by testing, including the following:
 - 1. Electrode manufacturer and trade name, for demand-critical welds.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Welding certificates.
- C. Mill test reports for structural-steel materials, including chemical and physical properties.
- D. Survey of existing conditions.
- E. Source quality-control reports.
- F. Field quality-control reports.

1.8 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel in accordance with AWS D1.1/D1.1M.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.
 - 1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Comply with applicable provisions of the following specifications and documents:
 - 1. ANSI/AISC 303.
 - 2. ANSI/AISC 360.

2.2 STRUCTURAL-STEEL MATERIALS

- A. Plate and Bar: ASTM A572/A572M, Grade 50.
- B. Lintel Angles: ASTM A36.
- C. Welding Electrodes: Comply with AWS requirements.

2.3 PRIMER

- A. Steel Primer:
 - 1. Comply with Section 09 96 00 "High-Performance Coatings."

2.4 FABRICATION

- A. Structural Steel: Fabricate repair plates in shop to greatest extent possible. Fabricate in accordance with ANSI/AISC 303 and to ANSI/AISC 360.
 - 1. Mark and match-mark materials for field assembly.
- B. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.
 - 1. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1/D1.1M.

PART 3 - EXECUTION

3.1 STEEL REPAIR

- A. Existing structural steel framing and components uncovered during the Work shall be cleaned to remove existing primer, rust, and dirt to bare metal prior to priming.
- B. Survey the surface of the structural steel framing for any obvious signs of corrosion.
 - 1. If any significant loss of cross-sectional area of a structural steel member is observed, notify Engineer immediately.
 - 2. If the estimated loss in a horizontal or vertical steel member exceeds 25%, Contractor shall immediately place temporary shoring.
 - 3. Provide access to the Engineer to observe and document the extent of corrosion at each location.
- C. All areas deemed to have section loss less than 10% shall be primed using approved primer, following manufacturer's application recommendations and coverage rates. Apply primer to achieve a minimum dry film thickness of 2.5 mils.
- D. Repairs Using Supplemental Plate: Perform supplemental plate repairs on all areas reported as having 10% loss or greater upon receiving direction from the Engineer.
 - 1. Perform surface cleaning as described in article 3.02.A. of this Section
 - 2. Fabricate steel plate to dimensions shown on the Drawings and as follows:
 - a. Plate shall extend a minimum of 1" beyond the limits of the corroded area.
 - b. Provide additional supplement steel where edge distances or other constraints prevent the plate from extending 1" beyond corroded area to ensure structural steel element to remain is continuous and sound.
 - c. Position plate over area to be repaired and weld. Welds will typically be equal leg fillet welds.
 - d. Prime repaired areas using approved primer, following manufacturer's application recommendations and coverage rates. Apply primer to achieve a minimum dry film thickness of 2.5 mils
- E. All steel repair areas will be encapsulated in concrete as showing in the Drawings and in accordance with Section 03 30 00 "Cast-In-Place Concrete."

3.2 COATING

- A. Priming: Clean and prime all exposed structural steel, steel repairs, and new lintels in accordance with Section 09 96 00 "High-Performance Coatings."

3.3 FIELD CONNECTIONS

- A. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

3.4 FIELD QUALITY CONTROL

- A. Special Inspections: GSD will engage a special inspector to perform the following special inspections:
 - 1. Verify structural-steel materials.
 - 2. Verify weld materials and inspect welds.
- B. Testing Agency: GSD may engage a qualified testing agency to perform tests and inspections.
 - 1. Welded Connections: Visually inspect field welds in accordance with AWS D1.1/D1.1M.
 - a. In addition to visual inspection, test and inspect field welds in accordance with AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
 - 1) Liquid Penetrant Inspection: ASTM E165/E165M.
 - 2) Magnetic Particle Inspection: ASTM E709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.
 - 3) Ultrasonic Inspection: ASTM E164.
 - 4) Radiographic Inspection: ASTM E94/E94M.

END OF SECTION 05 12 83

SECTION 07 13 26

SELF-ADHERING SHEET WATERPROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Sheet waterproofing installed at north wall of Journal Reading room.
- B. Related Requirements:
 - 1. Section 07 21 00 – “Thermal Insulation”

1.3 REFERENCES

- A. ICC AC308-14 "Acceptance Criteria for Termite Physical Barrier Systems"
- B. ASTM D412-16(2021) "Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension"
- C. ASTM D1970/D1970M-15a "Specification for Self-adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roof Underlayment for Ice Dam Protection"
- D. ASTM C836/C836M-15 "Specification for High-solids Content, Cold Liquid-applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course"
- E. ASTM E154/E154M-08a(2019) "Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover"
- F. ASTM D570-22 "Standard Test Method For Water Absorption of Plastics"
- G. ASTM E96/E96M-22a "Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials"
- H. ASTM D5385/D5385M-20 "Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes"

- I. ASTM C578-15 "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation"
- J. ASTM D4263-83(2018) "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method"
- K. ASTM D4258-05(2017) "Standard Practice for Surface Cleaning Concrete for Coating"

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review waterproofing requirements including surface preparation, substrate condition and pretreatment, minimum curing period, forecasted weather conditions, special details and sheet flashings, installation procedures, testing and inspection procedures, and protection and repairs.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, and tested physical and performance properties of waterproofing.
 - 2. Include manufacturer's written instructions for evaluating, preparing, and treating substrate.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Research Reports: For modified bituminous sheet waterproofing/termite barrier, showing compliance with ICC AC308.
- C. Field quality-control reports.
- D. Sample Warranties: For special warranties.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by waterproofing manufacturer.
- B. In-Place Mockups: Initial installation of waterproofing membrane shall constitute an in-place mockup to verify selections made under sample submittals and to set quality standards for installation.
 - 1. Build for each typical waterproofing installation to demonstrate surface preparation, crack and joint treatments, inside and outside corner treatments, and protection.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Apply waterproofing within the range of ambient and substrate temperatures recommended in writing by waterproofing manufacturer. Do not apply waterproofing to a damp or wet substrate.
 1. Do not apply waterproofing in snow, rain, fog, or mist.
- B. Maintain adequate ventilation during preparation and application of waterproofing materials.

1.9 WARRANTY

- A. Manufacturer's Warranty:
 1. Waterproofing Warranty: Manufacturer agrees to furnish replacement waterproofing material for waterproofing that does not comply with requirements or that fails to remain watertight within specified warranty period.
 - a. Warranty Period: Five years from date of Substantial Completion.
- B. Installer's Special Warranty: Specified form, signed by Installer, covering Work of this Section, for warranty period of two years.
 1. Warranty includes removing and reinstalling protection board, drainage panels, and insulation.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Source Limitations for Waterproofing System: Obtain waterproofing materials from single source from single manufacturer.

2.2 SHEET WATERPROOFING

- A. Modified Bituminous Sheet Waterproofing: Minimum 60-mil nominal thickness, self-adhering sheet consisting of 56 mils of rubberized asphalt laminated on one side to a 4-mil-thick, polyethylene-film reinforcement, and with release liner on adhesive side.
 1. Physical Properties:

- a. Tensile Strength, Membrane: 250 psi minimum; ASTM D412, Die C, modified.
 - b. Ultimate Elongation: 300 percent minimum; ASTM D412, Die C, modified.
 - c. Low-Temperature Flexibility: Pass at minus 20 deg F; ASTM D1970/D1970M.
 - d. Crack Cycling: Unaffected after 100 cycles of 1/8-inch movement; ASTM C836/C836M.
 - e. Puncture Resistance: 40 lbf minimum; ASTM E154/E154M.
 - f. Water Absorption: 0.2 percent weight-gain maximum after 48-hour immersion at 70 deg F; ASTM D570.
 - g. Water Vapor Permeance: 0.05 perm maximum; ASTM E96/E96M, Water Method.
 - h. Hydrostatic-Head Resistance: 200 feet minimum; ASTM D5385.
2. Sheet Strips: Self-adhering, rubberized-asphalt strips of same material and thickness as sheet waterproofing.

2.3 ACCESSORIES

- A. Furnish accessory materials recommended by waterproofing manufacturer for intended use and compatible with sheet waterproofing.
 1. Furnish liquid-type accessory materials that comply with VOC limits of authorities having jurisdiction.
- B. Primer: Liquid primer recommended for substrate by sheet waterproofing material manufacturer.
- C. Surface Conditioner: Liquid, waterborne surface conditioner recommended for substrate by sheet waterproofing material manufacturer.
- D. Liquid Membrane: Elastomeric, two-component liquid, cold fluid applied, of trowel grade or low viscosity.
- E. Substrate Patching Membrane: Low-viscosity, two-component, modified asphalt coating.
- F. Flat Metal Termination Bars: Stainless steel bars, approximately 1 by 1/8 inch, predrilled at 9-inch centers.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of waterproofing.
 1. Verify that concrete has cured and aged for minimum time period recommended in writing by waterproofing manufacturer.
 2. Verify that substrate is visibly dry and within the moisture limits recommended in writing by manufacturer. Test for capillary moisture by plastic sheet method in accordance with ASTM D4263.

3. Verify that existing masonry wall surface has been cleaned and all voids filled in manner acceptable for installation of waterproofing.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean, prepare, and treat substrates according to manufacturer's written instructions. Provide clean, dust-free, and dry substrates for waterproofing application.
- B. Mask off adjoining surfaces not receiving waterproofing to prevent spillage and overspray affecting other construction.
- C. Remove grease, oil, bitumen, form-release agents, paints, curing compounds, and other penetrating contaminants or film-forming coatings from concrete.
- D. Remove fins, ridges, mortar, and other projections.
- E. Clean dirt and debris from face of wall and fill all voids.
- F. Fill form tie holes, honeycomb, aggregate pockets, holes, and other voids.
- G. Prepare, fill, prime, and treat joints and cracks in substrates. Remove dust and dirt from joints and cracks in accordance with ASTM D4258.
 1. Install sheet strips of width according to manufacturer's written instructions and center over treated construction and contraction joints and cracks exceeding a width of 1/16 inch.
- H. Corners: Prepare, prime, and treat inside and outside corners in accordance with manufacturer's instructions.
 1. Install additional membrane strips at footing, base of wall, corners and all other locations required by Manufacture.
- I. Prepare, treat, and seal vertical and horizontal surfaces at terminations and penetrations through waterproofing and at drains and protrusions.

3.3 INSTALLATION OF SHEET WATERPROOFING

- A. Install modified bituminous sheets according to waterproofing manufacturer's written instructions.
- B. Apply primer to substrates at required rate and allow it to dry. Limit priming to areas that will be covered by sheet waterproofing in same day. Reprime areas exposed for more than 24 hours.
- C. Apply and firmly adhere sheets over area to receive waterproofing. Accurately align sheets and maintain uniform 2-1/2-inch-minimum lap widths and end laps. Overlap and seal seams, and stagger end laps to ensure watertight installation.

1. When ambient and substrate temperatures range between 25 and 40 deg F, install self-adhering, modified bituminous sheets produced for low-temperature application. Do not use low-temperature sheets if ambient or substrate temperature is higher than 60 deg F.
- D. Apply continuous sheets over already-installed sheet strips, bridging substrate cracks, construction, and contraction joints.
- E. Seal edges of sheet waterproofing terminations with termination bar and sealant.
- F. Roll waterproofing membrane to firmly adhere to substrate. Roll seams and terminations.
- G. Repair tears, voids, and lapped seams in waterproofing not complying with requirements. Slit and flatten fishmouths and blisters. Patch with sheet waterproofing extending 6 inches beyond repaired areas in all directions.
- H. Immediately install protection course with butted joints over waterproofing membrane.
 1. Board insulation may be used in place of a separate protection course to vertical applications when approved by waterproofing manufacturer and installed immediately.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: GSD may engage a qualified testing agency to perform tests, and to furnish reports to Engineer.
- B. Manufacturer's Field Service: Engage a site representative qualified by waterproofing membrane manufacturer to inspect substrate conditions, surface preparation, membrane application, flashings, protection, and drainage components; and to furnish a report to Engineer.
- C. Waterproofing will be considered defective if it does not pass inspections.

3.5 PROTECTION, REPAIR, AND CLEANING

- A. Protect waterproofing from damage and wear during remainder of construction period.
- B. Correct deficiencies in or remove waterproofing that does not comply with requirements; repair substrates, reapply waterproofing, and repair sheet flashings.
- C. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended in writing by manufacturer of affected construction.

END OF SECTION 07 13 26

SECTION 07 14 16

POLYURETHANE-MODIFIED METHYL METHACRYLATE (PUMA) WATERPROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. This Section contains provisions for the installation of a fully reinforced polyurethane-modified methyl methacrylate (PUMA) waterproofing system for the following applications:
 - 1. Continuous monolithic waterproofing system of the concrete stair structure, to include drainage mat and membrane protection requirements.
 - 2. Integration of stair waterproofing at perimeter cheek walls.
 - 3. Integration of stair waterproofing with existing membrane to remain at the plaza deck.
 - 4. Waterproofing, flashing and drainage provisions for cheek walls.
- B. Related Sections
 - 1. Section 04 03 50 – “Historic Unit Masonry”
 - 2. Section 07 62 00 – “Lead Flashing”
 - 3. Section 07 92 20 – “Joint Sealants”

1.3 REFERENCES

- A. ASTM A240/A240M-15a "Standard Specification for Chromium and Chromium-nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications"
- B. ASTM D638-22 "Standard Test Method for Tensile Properties of Plastics"
- C. ASTM D1644-01(2017) "Standard Test Methods for Nonvolatile Content of Varnishes"
- D. ASTM C1250-05 "Standard Test Method for Nonvolatile Content of Cold Liquid-Applied Elastomeric Waterproofing Membranes"
- E. ASTM C1583/C1583M-20 "Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)"
- F. ASTM C920-14a "Standard Specification for Elastomeric Joint Sealants"

- G. ICRI Concrete Surface Preparations
- H. SSPC SP3 (2018) "Surface Preparation Standard No. 3"

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's published literature, test data, and installation instructions for the PUMA membrane and accessories including other data as may be required to certify compliance with specified performance requirements.
 - 1. Submit copies of test results showing performance characteristics equaling or exceeding those specified.
- B. Shop Drawings: Submit shop drawings illustrating intended installation of PUMA membrane system, to include requirements and locations for primers and drainage mat, for project specific conditions. Shop drawings should include but are not limited to the following:
 - 1. Plan views showing the extent of PUMA waterproofing and locations of details
 - 2. Details for inside and outside corners.
 - 3. Typical stair details.
 - 4. Termination details at cheek walls.
 - 5. Integration with existing waterproofing systems to remain.
- C. Certificates
 - 1. Product certification that the system components are supplied and warranted by single source PUMA waterproofing system Manufacturer
 - 2. Statement on manufacturer's letterhead, indicating manufacturer approves installer for installation of PUMA waterproofing system.
- D. Sample Warranty: Provide a copy of the manufacturer's sample warranty with warranty checklist.

1.5 QUALITY ASSURANCE

- A. Single-Source Requirements: Obtain PUMA waterproofing system materials, reinforcing sheets, primers, drainage materials and all associated accessories for the manufacturer's complete and proper installation of the PUMA waterproofing system from a single manufacturer.
- B. Installer Requirements:
 - 1. Only authorized installers approved by the PUMA system manufacturer shall install the PUMA waterproofing system.
 - 2. Maintain onsite a minimum of one copy of the manufacturer's standard installation instructions to include product data, technical bulletins and published recommendations relevant to the project specific work.
- C. Installation shall be in accordance with manufacturer's installation guidelines and recommendations.

1.6 PREINSTALLATION MEETINGS:

- A. Conduct a preinstallation conference on site.
 - 1. Review PUMA waterproofing substrates, existing conditions, approved submittals, and discuss intended installation.
 - 2. Attendees shall include:
 - a. Representative for the GSD.
 - b. Contractor's Project Manager.
 - c. Contractor's Superintendent.
 - d. Engineer's Project Manager.
 - e. Foreman for the installation subcontractor.
 - f. Representative for the PUMA waterproofing manufacturer.

1.7 MOCKUPS

- A. In-Place Mockups: Construct in-place mockup of fully reinforced PUMA waterproofing system and allow Engineer and GSD to review prior to commencing full installation of PUMA waterproofing system. Mockups shall be constructed and tested to demonstrate compliance with Contract Documents and set the quality standards for remaining installation.
 - 1. Mockup location shall be selected by the Engineer,
 - 2. Prepare substrates and verify substrate moisture content is within the manufacturer's acceptable limits. Install 25 square feet of fully reinforced PUMA waterproofing to include a typical stair condition and termination at the cheek wall.
 - 3. Notify Engineer and GSD a minimum of fourteen (14) days in advance of mock-up installation and allow for observation of mockup on site.
 - 4. Once reviewed by the Engineer, accepted mockup can become part of the permanent work.
 - 5. Remove and replace materials found unacceptable at no additional cost to GSD.
 - 6. Approval of mockups does not constitute approval of deviations from the Contract Documents.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's unopened container with identification labels intact.
- B. Storage: Store materials off the ground in a cool, dark, dry, ventilated space. Do not double stack materials. Comply with the manufacturer's instructions for storage of each product. Rolled materials shall be stored on ends.
 - 1. Keep solvents away from open flame or excessive heat.
 - 2. Store PUMA materials in closed containers.

1.9 SITE CONDITIONS

- A. Environmental requirements:

1. Do not perform Work during rain or inclement weather.
2. Do not perform Work on frost covered substrates or surfaces that are not in accordance with PUMA waterproofing system manufacturer's written requirements.

B. Protection:

1. Contractor shall protect all exposed surfaces to remain from damage or coating during installation of PUMA waterproofing system.
2. Secure protective coverings against wind.
3. Provide odor control including, air fans, exhausts, and portable enclosure for mixing station.

1.10 WARRANTY

A. Installer Warranty:

1. Installer will warrant the system and installation. Provide material and labor costs for repair for a period of two years from the date of installation completion as a result of improper workmanship.

B. Material warranty:

1. Manufacturer will warrant the material against product defect for a period of ten (10) years from date of purchase.

PART 2 - PRODUCTS

2.1 FULLY REINFORCED PUMA WATERPROOFING MEMBRANE

A. General: Obtain waterproofing and auxiliary materials as a single-source from the PUMA System Manufacturer to ensure compatibility and compliance with the following requirements. Reinforced PUMA field membrane; having the following requirements:

1. Polyurethane modified methyl methacrylate (PUMA) technology.
2. Elongation (ASTM D638): minimum 280%.
3. Minimum application temperature: 20 °F.
4. Solids content by volume (ASTM D1644): 100%.
5. Volatile organic content (VOC) (ASTM C1250): 0 g/l.
6. Adhesion (ASTM C1583): >425 psi, substrate failure.
7. Tensile strength (ASTM D638): 1680 psi.

B. Fully Reinforced PUMA Waterproofing for Horizontal Applications

1. Catalyst: Dibenzoyl peroxide catalyst powder (BPO) used to initiate curing of polyurethane methyl methacrylate (PUMA) liquid resins.
2. Primer: Provide the PUMA waterproofing system manufacturer's recommended standard primer for use based on project specific conditions.
3. PUMA Membrane: Manufacturer's Polyurethane modified methacrylate (PUMA) fluid membrane recommended for horizontal applications.

4. Reinforcing Fabric: 100% polyester, non-woven, needle punch constructed fleece combining high tensile and tear strength with puncture resistance.

C. Fully Reinforced PUMA Waterproofing for Vertical Applications

1. Thixotropic polyurethane modified methacrylate (PUMA) specifically designed for use as a reinforced flashing and vertical applications.
2. Primer: Provide the PUMA waterproofing system manufacturer's recommended standard primer for use based on project specific conditions.
3. Reinforcing Fabric: 100% polyester, non-woven, needle punch constructed fleece combining high tensile and tear strength with puncture resistance.

D. Wear coat:

1. Liquid applied PUMA coating: Elastomeric polyurethane modified methacrylate (PUMA) specifically designed as an aggregate holding wear coat for areas anticipating pedestrian traffic or where overburden is directly bonded to the PUMA system.
2. Aggregate: Dry, contamination free, silica sand as recommended by the PUMA waterproofing system manufacturer.

2.2 PUMA SUBSTRATE REPAIR MATERIAL

- A. Thixotropic polyurethane modified methacrylate (PUMA) specifically designed for repairing substrate deficiencies such as concrete voids/bug holes, or as recommended by the manufacturer.

2.3 ACCESSORIES

- A. Drainage Mat: Prefabricated drainage composite consisting of polystyrene or PVC dimple core combined with filter fabric.
- B. Compressive strength: minimum 11,000 lbs/ square foot.
- C. Sealant: Provide ASTM C920 Type S, Grade NS, Class 50, silicone sealant for sealing joints between concrete and cheek walls as indicated with the Drawings.
- D. Coal Tar Integration Materials: Where new PUMA waterproofing system must integrate with existing coal tar waterproofing provide materials necessary for integration of PUMA waterproofing with coal tar as outlined by the PUMA waterproofing manufacturer, including but not limited to the following:
 1. Lead Sheet: ASTM B749, Type L51121.
 - a. Thickness: 4 lb./sq. ft. (0.063 inch)
 2. Silicone bed and lap sealant for stainless steel flashing plates. Recommended by the manufacturer for use in lap and bed seal applications.
 3. Coal Tar Compatible Membrane: Precured sheet membrane compatible with existing coal tar with manufacturer's recommended adhesive for bonding membrane to existing coal tar.
 4. Coal Tar Compatible Mastic: Waterproofing mastic compatible with coal tar that can be utilized to create watertight seal between coal tar and sheet metal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Inspect substrates to verify conditions are in accordance with the PUMA waterproofing system manufacturer's written installation instructions and technical literature.
- B. Perform field testing in accordance with the PUMA waterproofing system manufacturer's written instructions to verify substrate moisture content is within acceptable limits prior to installation of PUMA waterproofing system. Allow substrates to dry and protect from wetting until as necessary to maintain acceptable moisture levels during installation of PUMA waterproofing system. Conduct additional tests as necessary if substrates become exposed to moisture.
- C. Verify existing substrates surfaces are free of voids, cracks or loose materials. Repair substrates as necessary to create suitable conditions for PUMA waterproofing system installation per the manufacturer's written instructions.
- D. Concrete surface profiles: Surface profiles must meet ICRI CSP 3-5 or as required by the PUMA waterproofing system manufacturer.
- E. Adhesion/pull test: Complete a PUMA primer adhesion test, in accordance with ASTM C1583 prior to installation of PUMA system in accordance with the PUMA waterproofing system manufacturer's requirements.
 - 1. Minimum number of tests: 2; (1) test per 5,000 sq.ft.
 - 2. Minimum primer adhesion to concrete: 200 psi. or greater than concrete cohesive strength.

3.2 PREPARATION

- A. Surfaces must be sound, dry, clean, and free of laitance, oil, grease, dirt, excess mortar, frost, loose and flaking particles, curing compounds or other contaminants.
- B. Prepare concrete surface profiles to meet ICRI CSP 3-5 in accordance with manufacturer's requirements.
- C. Mechanically abrade metal surfaces to meet SSPC-SP3.
 - 1. Clean and prime abraded surfaces immediately after abrasion to avoid flash rusting.
- D. Verify that new concrete and existing substrates have been prepared in accordance with the PUMA waterproofing system manufacturer's written requirements.

3.3 INSTALLATION

- A. Do not proceed with PUMA waterproofing system installation unless substrate, weather, and all manufacturer's written requirements have been met.

- B. Install manufacturer's recommended primer for each substrate prior to PUMA waterproofing system installation. Install primer in accordance with manufacturer's written instructions, to include minimum set time, and re-application requirements.
- C. Install flashing and fully reinforced vertical PUMA waterproofing system as indicated in the Drawings and at all terminations, vertical substrates, penetrations, substrate cracks, inside and outside corners, and where required by the manufacturer.
 - 1. Install reinforced vertical PUMA and PUMA flashing per PUMA System Manufacturer's minimum required thickness.
 - a. Total dry film thickness = eighty (80) mils minimum
 - b. Average application rate for two layers of PUMA = twenty (20) sq.ft./gal.
 - 2. Extend waterproofing vertically to the underside of existing limestone at cheek walls to fully coat substrates and porous materials below the anticipated elevation of the stair treads and pavers.
 - 3. Install first layer of vertical PUMA membrane at a minimum fifty (50) mils thick [thirty (30) sq.ft./gal.]; extending one (1) inch beyond anticipated area of fleece reinforcement.
 - a. Do not install PUMA membrane beyond cured primer.
 - 4. Apply fleece reinforcement onto first layer of PUMA membrane.
 - a. Back coat fleece at vertical applications prior to installation.
 - b. Install and fully saturate fleece prior to subsequent PUMA membrane installation.
 - c. Roll or brush fleece for proper adhesion and removal of voids, folds, and wrinkles.
 - d. Lap adjoining fleece edges a minimum of three (3) inches. Dry overlap is not acceptable.
 - 5. Apply second layer of PUMA membrane at a minimum thirty (30) mils thick [fifty (50) sq.ft./gal.]; extending one (1) inch beyond fleece reinforcement.
 - a. Do not install PUMA membrane beyond cured primer.
 - b. Fill gaps at edge of fleece, ensure fleece is fully coated and has a smooth and continuous watertight finish.
 - c. Feather edges of PUMA to eliminate hard line and create a continuous/smooth field membrane.
 - 6. Allow PUMA to cure in accordance with PUMA waterproofing system manufacturer's product literature.
- D. Application of fully reinforced horizontal PUMA waterproofing system in accordance with the manufacturer's instructions.
 - 1. Install reinforced vertical PUMA and PUMA flashing per PUMA System Manufacturer's minimum required thickness.
 - 2. Total dry film thickness = eighty (80) mils minimum
 - 3. Average application rate for two layers of PUMA = twenty (20) sq.ft./gal.
 - 4. Install first layer of vertical PUMA membrane at a minimum fifty (50) mils thick [thirty (30) sq.ft./gal.]; extending one (1) inch beyond anticipated area of fleece reinforcement.

- a. Do not install PUMA membrane beyond cured primer.
 5. Apply fleece reinforcement onto first layer of PUMA membrane.
 - a. Install and fully saturate fleece prior to subsequent PUMA membrane installation.
 - b. Roll or brush fleece for proper adhesion and removal of voids, folds, and wrinkles.
 - c. Lap adjoining fleece edges a minimum of three (3) inches. Dry overlap is not acceptable.
 6. Apply second layer of PUMA membrane at a minimum thirty (30) mils thick [fifty (50) sq.ft./gal.]; extending one (1) inch beyond fleece reinforcement.
 - a. Do not install PUMA membrane beyond cured primer.
 - b. Fill gaps at edge of fleece, ensure fleece is fully coated and has a smooth and continuous watertight finish.
 - c. Feather edges of PUMA to eliminate hard line and create a continuous/smooth field membrane.
 7. Allow PUMA to cure in accordance with PUMA waterproofing system manufacturer's product literature.
- E. Install wear coat in accordance with the manufacturer's instructions.
1. Total dry film thickness = forty (40) mils minimum (not including aggregate)
 2. Application rate = forty (40) sq.ft./gal
 3. Fully broadcast aggregate, to rejection, onto wet wear/traffic coat.
 - a. Average application rate = approximately 1.5 lbs per square foot
 - b. Aggregate not required on vertical surfaces.
 4. Allow wear coat to cure in accordance with PUMA System Manufacturer's product specific TDS prior to subsequent installations.
 5. Remove excess aggregate; choose from the following:
 - a. Heavy duty brooms.
 - b. Mechanical blowing equipment.
 - c. Industrial vacuum.
- F. Integration with existing waterproofing: Existing waterproofing at the north stair and portico is understood to be coal tar based waterproofing. Where existing waterproofing is to remain, integrate new PUMA waterproofing system with the existing coal tar waterproofing in accordance with the PUMA waterproofing manufacturer's requirements to create a continuous watertight transition.
1. Where necessary provide lead sheet flashing for separation of PUMA waterproofing system from coal tar.
 2. Fully bed portion of lead sheet on concrete in silicone sealant recommended for use in metal lap and bed seal applications. Mechanically fasten stainless steel plate to substrate with concrete fasteners spaced 24 inches O.C. Install fasteners to achieve a minimum 1 inch embedment. Lap adjacent sections of lead sheet plate a minimum of 3 inches and fully bed in lap sealant.

3. Full bed portion of lead sheet on coal tar in mastic.
 4. Extend new PUMA waterproofing system onto lead flashing. Prime and treat lead in accordance with the PUMA waterproofing system manufacturer's instructions to facilitate bond.
 5. It may be acceptable to create integration with the existing coal tar if a self-adhered membrane compatible with both coal tar and the PUMA waterproofing system is available.
 - a. Apply waterproofing system approved for application and adhesion to existing coal tar to the surface of the existing coal tar. Lap coal tar compatible membrane onto stainless steel plate. Prime and treat stainless steel in accordance with the coal tar compatible membrane manufacturer's instructions to facilitate bond.
- G. Waterproofing Testing: Prior to installation of drainage mat, conduct testing to verify integrity and watertightness of installed PUMA waterproofing system.
1. Flood Test:
 - a. Conduct flood test upon PUMA system completion.
 - b. Provide temporary stops and plugs for the roof drain(s) or scupper(s) within test area.
 - c. Flood test with a minimum of two (2) inches of water for no less than twenty-four (24) hours.
 - d. In the event of a breach in the membrane, repair, and retest the system for no less than twenty-four (24) hours.
 - e. Remove temporary stops and plugs.
 - f. Report results of testing to the Engineer and PUMA System Manufacturer. Submit results with the warranty application.
 - g. Do not proceed with Work without successful completion of testing
- H. Installation of drainage mat:
1. Install drainage composite in a shingle pattern starting at the low point(s)/drain location(s) in full continuous sheets to promote drainage.
 2. Abut adjacent drainage composite panels, overlapping the fabric approximately one (1) inch and closely adjoining nest cups.
 3. Adhere drainage mat to installed PUMA waterproofing system with manufacturer's recommended sealant or adhesive. Install adhesive at discrete locations, do not install in continuous ribbons perpendicular to water drainage path.
 4. Cut drainage composite to fit around penetrations and drain(s).
 5. Seal filter fabric of drainage composite to drain locations encapsulated in concrete to ensure drainage layer is not filled with concrete or cementitious materials that would obstruct drainage.

3.4 FIELD QUALITY CONTROL

- A. Do not allow traffic on PUMA waterproofing system until PUMA waterproofing system is fully cured.
- B. Do not penetrate PUMA waterproofing system. Ensure all components are in place, including, but not limited to, copings, railings, flashings, electrical conduit, pipes, pedestals, or curbs prior to PUMA waterproofing system installation.

- C. Do not allow the PUMA system to directly contact any of the following:
 - 1. Petroleum
 - 2. Grease
 - 3. Acid solvents
 - 4. Direct steam
- D. Contact PUMA waterproofing system manufacturer to observe installed PUMA waterproofing system at 15% completion of install, 50% completion of install, and 100% completion of install.

3.5 PROTECTION

- A. Protect all completed work from damage prior to installing limestone stair treads.

END OF SECTION 07 14 16

SECTION 07 21 00

THERMAL INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Extruded polystyrene foam-plastic board insulation.
- B. Related Requirements:
 - 1. Section 07 13 26 "Self-Adhering Sheet Waterproofing"

1.3 REFERENCES

- A. ASTM E84-16 "Standard Test Methods for Surface Burning Characteristics of Building Materials"

1.4 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Extruded polystyrene foam-plastic board insulation.

1.5 INFORMATIONAL SUBMITTALS

- A. Installer's Certification: Listing type, manufacturer, and R-value of insulation installed in each element of the building thermal envelope.
- B. Product Test Reports: For each product, for tests performed by a qualified testing agency.
- C. Research Reports: For foam-plastic insulation, from ICC-ES.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.
- B. Protect foam-plastic board insulation as follows:
 - 1. Do not expose to sunlight except to necessary extent for period of installation and concealment.
 - 2. Protect against ignition at all times. Do not deliver foam-plastic board materials to Project site until just before installation time.
 - 3. Quickly complete installation and concealment of foam-plastic board insulation in each area of construction.

PART 2 - PRODUCTS

2.1 EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION

- A. Extruded Polystyrene Board Insulation, Type X: ASTM C578, Type X, 15-psi minimum compressive strength; unfaced.
 - 1. Performance Characteristics
 - a. Thermal Resistance per inch: Minimum R-Value of 5.0 deg F-ft²/h/Btu in accordance with ASTM C518
 - b. Flame Spread Index: Maximum 25 in accordance with ASTM E84
 - c. Smoke Developed Index: Maximum 20 in accordance with ASTM E84
 - d. Noncombustibility: Passes ASTM E136
 - e. Water Absorption: Maximum 0.03% by volume in accordance with ASTM C272

2.2 ACCESSORIES

- A. Adhesive for Bonding Insulation: Product compatible with insulation and sheet-applied waterproofing materials, and with demonstrated capability to bond insulation securely to substrates without damaging insulation and substrates.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean substrates of substances that are harmful to insulation, including removing projections capable of puncturing insulation or vapor retarders, or that interfere with insulation attachment.

3.2 INSTALLATION, GENERAL

- A. Comply with insulation manufacturer's written instructions applicable to products and applications.

- B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.
- C. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
- D. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.

3.3 INSTALLATION OF FOUNDATION WALL INSULATION

- A. Butt panels together for tight fit.
- B. Adhesive Installation: Install with adhesive over waterproofing membrane according to manufacturer's written instructions.

3.4 PROTECTION

- A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes.
- B. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION 07 21 00

SECTION 07 62 00

LEAD FLASHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Lead sheet flashings installed beneath cheek wall coping and cornice stones.
 - 2. Lead sheet flashing installed as a separator to integrate PUMA waterproofing system with existing coal tar waterproofing.

1.3 Related Requirements:

- 1. Section 04 03 50 – “Historic Unit Masonry”
- 2. Section 07 14 16 – “PUMA Waterproofing”
- 3. Section 07 92 20 – “Joint Sealants”

1.4 REFERENCES

- A. SMACNA "Architectural Sheet Metal Manual 7th Edition"
- B. ASTM B749-20 "Standard Specification for Lead and Lead Alloy Strip, Sheet, and Plate Products"

1.5 COORDINATION

- A. Coordinate lead flashing layout and seams with joints and seams in adjacent materials.
- B. Coordinate sheet metal flashing installation with adjoining coping and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.6 PREINSTALLATION MEETINGS:

- A. Preinstallation Conference: Conduct preinstallation conference on concrete repair at Project site.

1. Attendees shall include:
 - a. Representative for the GSD.
 - b. Engineer's Project Manager.
 - c. Contractor's Project Manager.
 - d. Contractor's Superintendent.
 - e. Foreman for the lead flashing installer.
2. Conference Agenda: Review methods and procedures related to lead flashing installation including, but not limited to, the following:
 - a. Verify concrete-maintenance contractor's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Preconstruction testing.
 - c. Materials, material application, sequencing, tolerances, and required clearances.
 - d. Quality-control program.

1.7 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated, submit the most current manufacturer's product data, including recommendations for application, intended use, and all installation.
- B. Shop Drawings: Show installation layouts of sheet metal flashing including plans, elevations, and sections. All details shall be shown at a scale that clearly conveys the flashing shapes, profiles, and installation of the sheet metal components. Distinguish between shop and field assembled work. Clearly indicate the following:
 1. Identification of material, thickness, weight, and finish.
 2. Details for forming flashing including profiles, shapes, seams, and dimensions.
 3. Details for joining, supporting, and securing flashing, including layout of any fasteners, clips, or other attachments. Include pattern of seams.
 4. Details for all termination and transition points, including integration with the existing coal tar waterproofing.

1.8 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For installer.
- B. Sample Warranty.

1.9 QUALITY ASSURANCE

- A. Installer Qualifications: Employs skilled workers with experience fabricating and installing lead flashing similar to that required for this Project and whose products have a record of successful in-service performance.
- B. Mockups: First installation of lead flashings shall constitute an in-place mockup to demonstration execution methods and set quality standards for fabrication and installation.

1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Owner specifically approves such deviations in writing.

C. Preconstruction Testing: Perform lap test

1.10 DELIVERY, STORAGE, AND HANDLING

- A. Do not store sheet metal flashing materials in contact with other materials that might cause staining, denting, or other surface damage.
 1. Store sheet metal flashing materials away from uncured concrete and masonry.
 2. Protect stored sheet metal flashing from contact with water.
- B. Protect strippable protective covering on sheet metal flashing from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing installation.

1.11 WARRANTY

- A. All lead sheet metal assemblies shall be warrantied for materials and workmanship for a period of ten (10) years from the date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Lead flashing assemblies are to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing are not to rattle, leak, or loosen and are to remain watertight.
- B. Sheet Metal Standard for Flashing and Trim: Comply with SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

2.2 SHEET METALS

- A. Lead Sheet: ASTM B749, Type L51121.
 1. Thickness: 4 lb./sq. ft. (0.063 inch)

2.3 MISCELLANEOUS MATERIALS

- A. Bedding Adhesive: Silicone lap sealant specified in Section 07 92 20 “Joint Sealants.”
- B. Lead Wedges: Minimum 98% lead content.
- C. Lead Wool: Minimum 98% lead content.
- D. Sealants
 - 1. For through wall flashing applications, the following lap sealants will be required:
 - a. For flashing laps on horizontal surfaces that will be permanently compressed below limestone units, use silicone sealant in accordance with Section 07 92 20 “Joint Sealants.”
 - b. For flashing laps on horizontal surfaces that will not be permanently compressed, use silicone sealant in accordance with Section 07 92 20 “Joint Sealants.”
 - c. For flashing laps on vertical surfaces, use silicone sealant in accordance with Section 07 92 20 “Joint Sealants.”
- E. Patination Oil: Mixture of white spirit, soya alkyd resin, silica, and metallic soaps formulated to prevent white carbonate formation on newly installed lead surfaces, reducing the risk of staining on adjacent materials, and to aid in the formation of a more uniform patina on the lead surface.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with installer present, for compliance with requirements for installation tolerances, substrate, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Install lead flashing to comply with details indicated and recommendations of cited sheet metal standard that apply to installation characteristics required unless otherwise indicated on Drawings.
 - 1. Install sealants, and other miscellaneous items as required to complete sheet metal flashing system.
 - 2. Install sheet metal flashing true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of solder or sealant.
 - 3. Anchor sheet metal flashing and other components of the Work securely in place, with provisions for thermal and structural movement.
 - 4. Install sheet metal flashing to fit substrates and to result in watertight performance.
 - 5. Install exposed sheet metal flashing with limited oil-canning, and free of buckling and tool marks.

- 6. Do not field cut sheet metal flashing by torch.
- B. Seal joints as required for watertight construction.
 - 1. Prepare joints and apply sealants to comply with requirements in Section 07 92 00 "Joint Sealants."
- C. Protect against dissimilar metal contact and galvanic corrosion.

3.3 INSTALLATION LEAD FLASHINGS

- A. Install sheet metal wall flashing and counterflashings as shown in the Drawings to intercept and exclude penetrating moisture in accordance with cited sheet metal standard unless otherwise indicated.
 - 1. Coordinate installation of counterflashing with installation of waterproofing assembly and stone pavers and treads.
 - 2. Coordinate installation of coping flashing with replacement of concrete coping slabs and reinstallation of cornice and coping stones.
- B. Form sheet metal flashing in place using bossing stick to fit substrates without excessive oil-canning, buckling, and tool marks; true to line, levels, and slopes.
- C. Do not tear or puncture lead sheet. Torn or punctured lead sheet shall be replaced.
- D. Secure flashing into mortar joints or field-sawn reglets using lead wedges.
 - 1. Removal of mortar joints, where indicated, shall be performed using hand tools in accordance with the masonry notes and the approved mockups.
 - 2. Reglets shall be located as shown in the Drawings, but not less than 3/4 inch from edge of stone nor within 1/2 inch of paver surface.
- E. Fill joints using lead caulking.
 - 1. Place lead wool into the joint and tamp into joint until completely compressed and expanded against the top and bottom of the joint. Repeat in multiple lifts until the surface of the compacted lead is flush with the brick surface.
- F. Seams shall be lapped and fully bedded in silicone sealant.
 - 1. Where possible, orient laps parallel to slope.
 - 2. Where seams must run across slope, laps shall be shingled.

3.4 FIELD QUALITY CONTROL

- A. Contractor shall conduct periodic hydrostatic end lap testing on at least 25% of all lead flashing end laps at horizontal surfaces flashing assemblies and coal tar roofing integrations. End lap testing shall be performed as follows:

1. After installation of sheet metal flashing and prior to reinstallation stone, the Contractor shall use butyl putty tape or other non-staining, non-permanent material to form a dam around the full depth of the end lap.
2. Water shall be ponded within the dam to a height of 1/2".
3. If the water height cannot be maintained for at least 30 minutes, the lap shall be considered inadequately sealed; and the lap shall be resealed and retested.
4. Contractor shall maintain a log of hydrostatic end lap test results including time stamped photographs taken at the start and end of each lap test. Photographs shall feature a tape measure to document start and finish water heights.

3.5 CLEANING

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean off excess sealants.

3.6 PROTECTION

- A. Remove temporary protective coverings and strippable films as sheet metal flashing are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. On completion of sheet metal flashing installation, remove unused materials and clean finished surfaces as recommended in writing by sheet metal flashing manufacturer.
- C. Maintain sheet metal flashing in clean condition during construction.
- D. Replace sheet metal flashing that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures, as determined by Architect.

3.7 FINISHING

- A. Apply patination oil to all lead surfaces in accordance with the manufacturer's written instructions prior to reinstallation of cornice and coping stones. Protect adjacent stone and other materials from oil contact.
- B. Remove and properly dispose of all foreign material and debris from work areas.
- C. Remove and replace all dented and damaged materials.

3.8 WASTE DISPOSAL

- A. Unless otherwise indicated, excess materials are Contractor's property.
- B. Remove waste and legally dispose of off Owner's property.

- C. All lead waste shall be collected and properly recycled or disposed of in accordance with all applicable Federal, state, local, and University regulations.

END OF SECTION 07 62 00

SECTION 07 92 00

JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

1. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Silicone joint sealants.
2. Non-staining silicone joint sealants.
3. Textured joint sealants.
4. Butyl joint sealants.
5. Latex joint sealants.

B. Related Requirements:

1. Section 04 03 50 – “Historic Unit Masonry”
2. Section 05 03 72 – “Historic Decorative Metal Railing Repair”
3. Section 07 62 00 – “Lead Flashing”
4. Section 09 29 00 – “Gypsum Board”
5. Section 09 91 23 – “Interior Painting”

1.3 REFERENCES

- A. ASTM C639-15(2020) "Standard Test Method for Rheological (Flow) Properties of Elastomeric Sealants"
- B. ASTM C679-15(2022) "Standard Test Method for Tack-Free Time of Elastomeric Sealants"
- C. ASTM C719-22 "Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)"
- D. ASTM C794-18(2022) "Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants"
- E. ASTM C920-14a "Standard Specification for Elastomeric Joint Sealants"
- F. ASTM C1021-08(2019) "Standard Practice for Laboratories Engaged in Testing of Building Sealants"

- G. ASTM C1087-16 "Standard Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems"
- H. ASTM C1135-19 "Standard Test Method for Determining Tensile Adhesion Properties of Structural Sealants"
- I. ASTM C1193-16 "Standard Guide for Use of Joint Sealants"
- J. ASTM C1248-22 "Standard Test Method for Staining of Porous Substrate by Joint Sealants"
- K. ASTM C1311-22 "Standard Specification for Solvent Release Sealants"
- L. ASTM C1330-18 "Standard Specification for Cylindrical Sealant Backing for Use with Cold Liquid-Applied Sealants"
- M. ASTM C1521-19(2020) "Standard Practice for Evaluating Adhesion of Installed Weatherproofing Sealant Joints"
- N. ASTM D624-00(2020) "Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers"
- O. ASTM D1056-20 "Standard Specification for Flexible Cellular Materials—Sponge or Expanded Rubber"
- P. ASTM D2022-00(2019) "Standard Test Method for Slump of Sealants"
- Q. ASTM D2240-15(2021) "Standard Test Method for Rubber Property-Durometer Hardness"

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

- A. Product Data:
 - 1. Joint sealants.
 - 2. Joint-sealant backing materials.
- B. Samples for Initial Selection: Manufacturer's standard color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.
 - 1. Textured Sealant: Submit sets of textured that will be left exposed in the form of sample strips, 6 inches long by 1/2 inch wide, set in aluminum or plastic channels.
 - a. Have each set contain a close color range of at least three (3) samples of different mixes of colored sands and cements that produce a mortar matching existing, cleaned mortar when cured and dry.
 - b. Submit with precise measurements on ingredients, proportions, gradations, and sources of colored sands from which each sample was made.

- C. Samples for Verification: For each type and color of joint sealant required, provide Samples with joint sealants in 1/2-inch-wide joints formed between two 6-inch-long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.
- D. Joint-Sealant Schedule: Include the following information:
 - 1. Joint-sealant application, joint location, and designation.
 - 2. Joint-sealant manufacturer and product name.
 - 3. Joint-sealant formulation.
 - 4. Joint-sealant color.

1.6 INFORMATIONAL SUBMITTALS

- A. Preconstruction Laboratory Test Schedule: Include the following information for each joint sealant and substrate material to be tested:
 - 1. Joint-sealant location and designation.
 - 2. Manufacturer and product name.
 - 3. Type of substrate material.
 - 4. Proposed test.
 - 5. Number of samples required.
- B. Preconstruction Laboratory Test Reports: For each joint sealant and substrate material to be tested from sealant manufacturer, indicating the following:
 - 1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants.
 - 2. Interpretation of test results and written recommendations for primers and substrate preparation are needed for adhesion.
- C. Preconstruction Field-Adhesion-Test Reports: Indicate which sealants and joint preparation methods resulted in optimum adhesion to joint substrates based on testing specified in "Preconstruction Testing" Article.
- D. Field Quality-Control Reports: For field-adhesion-test reports, for each sealant application tested.
- E. Sample warranties.

1.7 CLOSEOUT SUBMITTALS

- A. Manufacturers' special warranties.
- B. Installer's special warranties.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: Authorized representative who is trained and approved by manufacturer.

- B. Testing Agency Qualifications: Qualified in accordance with ASTM C1021 to conduct the testing indicated.

1.9 MOCKUPS

- A. Install sealant in mockups of assemblies specified in other Sections that are indicated to receive joint sealants specified in this Section. Use materials and installation methods specified in this Section.

1.10 PRECONSTRUCTION TESTING

- A. Preconstruction Laboratory Testing: Submit to joint-sealant manufacturers, for testing indicated below, samples of materials that will contact or affect joint sealants.
 - 1. Adhesion Testing: Use ASTM C794 to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.
 - 2. Compatibility Testing: Use ASTM C1087 to determine sealant compatibility when in contact with glazing and gasket materials.
 - 3. Stain Testing: Use ASTM C1248 to determine stain potential of sealant when in contact with stone substrates.
 - 4. Submit manufacturer's recommended number of pieces of each type of material, including joint substrates, joint-sealant backings, and miscellaneous materials.
 - 5. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.
 - 6. For materials failing tests, obtain joint-sealant manufacturer's written instructions for corrective measures, including use of specially formulated primers.
 - 7. Testing will not be required if joint-sealant manufacturers submit data that are based on previous testing, not older than 24 months, of sealant products for adhesion to, staining of, and compatibility with joint substrates and other materials matching those submitted.
- B. Preconstruction Field-Adhesion Testing: Before installing sealants, field test their adhesion to Project joint substrates as follows:
 - 1. Locate test joints where indicated on Project or, if not indicated, as directed by Engineer.
 - 2. Conduct field tests for each kind of sealant and joint substrate.
 - 3. Notify Engineer seven days in advance of dates and times when test joints will be erected.
 - 4. Arrange for tests to take place with joint-sealant manufacturer's technical representative present.
 - 5. Test Method: Test joint sealants in accordance with Method A, Tail Procedure, in ASTM C1521.
 - a. For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
 - 6. Report whether sealant failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. For sealants that fail adhesively, retest until satisfactory adhesion is obtained.

7. Evaluation of Preconstruction Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing, in absence of other indications of noncompliance with requirements, will be considered satisfactory. Do not use sealants that fail to adhere to joint substrates during testing.

1.11 FIELD CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
 1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer.
 2. When joint substrates are wet.
 3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
 4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.12 WARRANTY

- A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
 1. Warranty Period: Two years from date of Substantial Completion.
- B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
 1. Warranty Period: Five years from date of Substantial Completion.
- C. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:
 1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
 2. Disintegration of joint substrates from causes exceeding design specifications.
 3. Mechanical damage caused by individuals, tools, or other outside agents.
 4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain joint sealants from single manufacturer for each sealant type.

2.2 JOINT SEALANTS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
- B. Colors of Exposed Joint Sealants:
 - 1. At building exterior: Match color of restoration mortar.
 - 2. At building interior: Compatible as a base for selected interior paint color.

2.3 SILICONE LAP SEALANTS

- A. Silicone Lap Sealant: Single-component, neutral curing silicone sealant.
 - 1. Performance Characteristics:
 - a. Joint Movement Capabilities (Extension/Compression): Minimum of +/- 50% in accordance with ASTM C719.
 - b. Durometer Hardness, Shore A: Minimum of 24 in accordance with ASTM D2240.
 - c. Tear Strength: Minimum of 49 lb/inch. in accordance with ASTM D624.
 - d. Tensile Strength: Minimum 65 psi in accordance with ASTM C1135.
 - e. Tack Free Time: maximum 65 minutes in accordance with ASTM C679.
 - f. Flow, Sag, Slump: Maximum of 0.1" in accordance with ASTM C639.
 - 2. Basis of Design: Dow Corning 995 Structural Sealant

2.4 NON-STAINING SILICONE JOINT SEALANTS

- A. Stone Expansion Joint Sealant (Silicone, Non-staining, S, NS, 50, NT, M, O): Non-staining, single-component, non-sag, plus 50 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 50, Uses NT, M, and O.
 - 1. No staining of substrates when tested in accordance with ASTM C1248.

- 2.5 Ground-Mortar Aggregate for Sanded, Textured Sealant: Custom crushed and ground pointing mortar sand. Grind to a particle size that matches the adjacent mortar aggregate and color. Remove all fines passing the No. 100 sieve.

2.6 LATEX JOINT SEALANTS

- A. Acrylic Latex Siliconized elastomeric acrylic latex, ASTM C834, Type OP, Grade NF.
 - 1. Location: For application between top edge of gypsum board and underside of concrete ceiling:
 - 2. Color: Tintable. Color to be selected by Engineer and GSD from Manufacturer's standard colors to match adjacent finish.

3. Weight of Solids: 80%, minimum.
4. Sag: 0.15 inch maximum in accordance with ASTM C2202.
5. VOC content: Less than 0.5% by weight.

2.7 BUTYL JOINT SEALANTS

A. Butyl-Rubber-Based Joint Sealants:

- B. Butyl Lap Sealant: Single-component, permanently flexible butyl sealant compliant with ASTM C1311 and suitable for horizontal application in sheet metal flashing lap joints. Butyl sealant to be used for sealing adjacent horizontal sections of sheet metal flashing together and bedding sheet metal flashing against substrate.

1. Application: For sealing of seams in lead sheet flashing at horizontal laps compressed beneath cornice stones.
2. Sealant shall be specifically designed for sealing sheet metal flashing laps and must be able to be permanently compressed between two layers of sheet metal or sheet metal and adjacent substrate without corroding the sheet metal and while remaining permanently watertight.
3. Sealant shall have good adhesion to and be compatible with sheet metal flashing and various substrates, including, but not limited to, self-adhered sheet flashing.
4. Sealant shall be compatible with submitted silicone lap sealant.
5. Subject to project requirements, available products may include:
 - a. Pecora BA-98, Pecora Corporation
 - b. Lap Rite, Masonpro, Inc.
 - c. Butyl-Flex Gutter and Flashing Sealant, DAP, Inc.
 - d. Or approved equal.

2.8 JOINT-SEALANT BACKING

- A. Sealant Backing Material, General: Non-staining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C1330, Type B non-absorbent, bi-cellular material with surface skin, or Type O open-cell polyurethane, as recommended by sealant manufacturer for application, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- C. Compressible Foam Filler: Preformed strips of EPDM or neoprene rubber complying with ASTM D1056, Grade 2A1.
- D. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.9 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Non-staining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
 - 2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
 - a. Concrete.
 - b. Masonry.
 - 3. Remove laitance and form-release agents from concrete.
 - 4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
 - a. Metal.

- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Install sealant backings of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 - 1. Do not leave gaps between ends of sealant backings.
 - 2. Do not stretch, twist, puncture, or tear sealant backings.
 - 3. Remove absorbent sealant backings that have become wet before sealant application, and replace them with dry materials.
- D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
 - 1. Place sealants so they directly contact and fully wet joint substrates.
 - 2. Completely fill recesses in each joint configuration.
 - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- F. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
 - 1. Remove excess sealant from surfaces adjacent to joints.
 - 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
 - 3. Provide concave joint profile in accordance with Figure 8A in ASTM C1193 unless otherwise indicated.

- G. Sanded Joints: Immediately after first tooling, apply ground-mortar aggregate to sealant, gently pushing aggregate into the surface of sealant. Lightly retool sealant to form smooth, uniform beads, slightly concave. Remove excess sealant and aggregate from surfaces adjacent to joint.

- 1. Location: Expansion joints at stone.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: GSD may engage a qualified testing agency to perform tests and inspections.

- B. Tests and Inspections:

- 1. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:

- a. Extent of Testing: Test completed and cured sealant joints as follows:

- 1) Perform one test for each 100 ft. of joint length, but not fewer than 10 tests, for each kind of sealant and joint substrate.

- b. Test Method: Test joint sealants in accordance with Method A, Tail Procedure, in ASTM C1521.

- 1) For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.

- c. Inspect tested joints and report on the following:

- 1) Whether sealants filled joint cavities and are free of voids.
 - 2) Whether sealant dimensions and configurations comply with specified requirements.
 - 3) Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion complies with sealant manufacturer's field-adhesion hand-pull test criteria.

- d. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant material, sealant configuration, and sealant dimensions.

- e. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.

- 2. Evaluation of Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

- C. Prepare test and inspection reports.

3.5 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.6 PROTECTION

- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

END OF SECTION 07 92 00

SECTION 09 03 20

HISTORIC TREATMENT OF PLASTER

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Repair and replacement of historic interior lime plaster.
- B. Related Requirements:
 - 1. Section 09 91 23 "Interior Painting."

1.3 REFERENCES

- 1. ASTM A641/A641M-19 "Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire"
- 2. ASTM C25-19 "Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime"
- 3. ASTM C28/C28M-10(2020) "Standard Specification for Gypsum Plasters"
- 4. ASTM C61/C61M-00 (2015) "Specification for Gypsum Keene's Cement"
- 5. ASTM C150/C150M-15 "Specification for Portland Cement"
- 6. ASTM C206-14 "Specification for Finishing Hydrated Lime"
- 7. ASTM C207-18 "Standard Specification for Hydrated Lime for Masonry Purposes"
- 8. ASTM C897-15 "Specification for Aggregate for Job-Mixed Portland Cement-based Plaster"
- 9. ASTM C926-15b "Specification for Application of Portland Cement-based Plaster"
- 10. ASTM C1059/C1059M-21 "Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete"
- 11. ASTM C1063-15a "Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-based Plaster"
- 12. ASTM C1489-15 (2022) "Standard Specification for Lime Putty for Structural Purposes"
- 13. National Parks Services, Preservation Brief 21 "Repairing Historic Flat Plaster Walls and Ceilings"
- 14. National Parks Preservation Brief 23, "Preserving Historic Ornamental Plaster."

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct preinstallation conference on historic treatment of plaster at Project site.
 - 1. Attendees shall include:
 - a. Representative for the GSD.
 - b. Engineer's Project Manager.
 - c. Contractor's Project Manager.
 - d. Contractor's Superintendent.
 - e. Foreman for the plaster subcontractor.
 - 2. Conference Agenda: Review methods and procedures related to historic treatment of plaster, including, but not limited to, the following:
 - a. Verify historic treatment contractor's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Materials, material application, sequencing, tolerances, and required clearances.
 - c. Stone documentation and catalog.
 - d. Plasterwork historic treatment program.
 - e. Quality-control program.

1.5 SEQUENCING AND SCHEDULING

- A. Perform historic treatment of plaster in the following sequence, which includes work specified in this and other Sections:
 - 1. Dismantle existing surface-mounted objects and hardware that overlie plaster surfaces except items indicated to remain in place. Tag items with location identification and protect.
 - 2. Verify that temporary protections have been installed.
 - 3. Examine condition of plaster surfaces.
 - 4. Test paint to evaluate the presence of lead prior to removal.
 - 5. Clean plaster surface and remove paint and other finishes to the extent required.
 - 6. Repair and replace existing plaster and supports to the degree required for a uniform, tightly adhered surface on which to paint or apply other finishes.
 - 7. Cure repaired surfaces and allow them to dry for proper finishing.
 - 8. Paint and apply other finishes.
 - 9. Reinstall dismantled surface-mounted objects and hardware unless otherwise indicated.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include recommendations for product application and use.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified historic treatment contractor

1.8 QUALITY ASSURANCE

- A. Historic Treatment Contractor Qualifications: A qualified historic plastering specialist with expertise in matching and performing the types of historic plasterwork repairs required. Experience only in installing and repairing new plasterwork, veneer plaster, or gypsum board is insufficient experience for historic treatment work.
- B. Plasterwork Historic Treatment Program: Prepare a written, detailed description of materials, methods, equipment, and sequence of operations to be used for historic treatment work and protection of surrounding materials and Project site.
 - 1. Include methods and procedures to protect plastered surfaces from damage caused by construction operations, including, but not limited to, exposure to moisture, vibration, mechanical damage, and soiling.
 - 2. If materials and methods other than those indicated are proposed for any phase of historic treatment work, add a written description of such materials and methods, including evidence of successful use on comparable projects, and demonstrations to show their effectiveness for this Project.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver packaged materials to Project site in factory-sealed, unopened, and unbroken manufacturer's original containers, labeled with manufacturer's name and type of products. Bulk materials shall be delivered in clean transport vessels free of contaminants.
- B. All plastering materials should be stored in a dry location with ambient temperatures continuously maintained at not less than 45°F, preferably inside a building, and under cover. Stack plaster bags on elevated platforms, such as planks, and away from damp floors and walls. All materials should remain in their packaging until used.
 - 1. Where necessary to store materials outside, they should be stacked off the ground, properly supported on a level platform and fully protected from the weather and moisture absorption.
- C. Store materials not in use in tightly covered containers.
- D. Store hydrated lime and factory-prepared lime putty in manufacturer's original and unopened containers. Discard lime if containers have been damaged or have been opened for more than two days.
- E. Store sand where grading and other required characteristics can be maintained and contamination avoided.

1.10 FIELD CONDITIONS

- A. Comply with plaster-material manufacturers' written instructions.
- B. Temperatures: Temperatures at interior work areas shall be not less than 55°F or greater than 70°F for at least seven days before application of plaster, continuously during application, and for seven days after plaster has set or until plaster has dried. As plaster is installed at interior spaces, temperature variation should be limited.
- C. Ventilation: Ventilate as required to remove water in excess of that required for the hydration of the plaster. Begin ventilation immediately after plaster is applied and continue until it sets.
- D. Avoid conditions that result in plaster drying out too quickly.
 - 1. Distribute heat evenly; prevent concentrated or uneven heat on plaster.
 - 2. Maintain relative humidity levels for prevailing ambient temperature that produce normal drying conditions.
 - 3. Ventilate work areas in a manner that prevents drafts of air from contacting surfaces during plaster application and until plaster is dry.
- E. Protection: Protect adjacent work from soiling, splattering, moisture and other harmful effects which might result from plastering.

PART 2 - PRODUCTS

2.1 LIME-PLASTER MATERIALS

- A. Finishing Lime: ASTM C206 and C207, Type S
 - 1. Hydrated lime shall contain no more than 8% unhydrated oxides when tested in accordance with ASTM C25
- B. Gypsum Plaster: ASTM C28.
- C. Gypsum Keene's Cement: ASTM C61/C61M.
- D. Sand Aggregates: ASTM C897
 - 1. For Finish Coat: No. 1 white silica sand

2.2 PLASTER MIXES

- A. Flat Plaster: The mix design for the flat plaster is based on the intent of the original plaster design while meeting current design standards for bonding to both the clay tile and metal lath substrates.
- B. Flat plaster assembly to be constructed as a 3-coat system with an overall thickness of 7/8" and adjusted as necessary to match plane of adjacent plaster to form smooth seamless finish.

C. Scratch Coat:

1. Thickness: 1/2"
2. Mill-mixed plaster in accordance with ASTM C28.
 - a. 100 lbs. gypsum plaster
 - b. 3 cubic feet Sand
 - c. Fiber: natural coconut fibers (Match Existing)
 - 1) Free of grease, waxes, and oils
 - 2) Beaten well to separate fibers before blending into unfibered plaster material.
 - 3) Proportion of Fiber to Unfibered Plaster Material: Based on manufacturer recommendations, not to exceed 2 lb of fiber per cubic foot of cementitious material. Adjusted as required to produce a well-fibered, cohesive, spreadable, stiff mix with fibers uniformly distributed.

D. Brown Coat:

1. Thickness: 1/4" – 5/16"
2. Mill-mixed plaster in accordance with ASTM C28.
 - a. 100 lbs. gypsum plaster
 - b. 3 cubic feet Sand
 - c. Fiber: natural goat hair or coconut fibers (Match Existing)
 - 1) Free of grease, waxes, and oils
 - 2) Beaten well to separate fibers before blending into unfibered plaster material.
 - 3) Proportion of Fiber to Unfibered Plaster Material: Based on manufacturer recommendations, not to exceed 2 lb of fiber per cubic foot of cementitious material. Adjusted as required to produce a well-fibered, cohesive, spreadable, stiff mix with fibers uniformly distributed.

E. Finish Coat:

1. Thickness: 1/16" nominal
2. Type FL in accordance with ASTM C926
 - a. 1 part Keenes cement
 - b. 2 parts Finishing lime
 - c. 8 parts sand aggregate

2.3 METAL LATH

A. Galvanized Steel Lath: To match originally specified metal lath

1. #18 Gauge Wire Cloth
2. 2-1/2 Meshes per Inch
3. ASTM A641, Class I, zinc coated, soft temper steel

B. Accessories

1. Wire Ties: For attaching lath to anchorage
 - a. In accordance with ASTM A641, Class 1 zinc coating, soft temper
 - b. Diameter: Not less than 0.0475" diameter
2. Fasteners: For attaching metal lath to existing clay tile substrate
 - a. Non-corrosive self-tapping screw in accordance with ASTM C 1063.
 - b. Fastener length shall not be less than 1-1/2".
 - c. Fastener head shall not be less than 3/4" wide.
 - d. Zinc Coated (Galvanized)

2.4 MISCELLANEOUS MATERIALS

A. Shims: 1/4" thick plastic or nylon spacer.

1. Inside Diameter: Not to exceed 0.257"
2. Outside Diameter: Not to exceed 1/2"

B. Bonding Agent: In accordance with ASTM C1059 Type II designed to improve adhesion between new plaster and existing plaster surfaces.

1. Verify bonding agent is suitable for existing substrates based on preconstruction testing. Alternate bonding agents may be required based on composition of existing plaster mixture.
2. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. LiquidWeld, Sika
 - b. Concrete Bonding Adhesive, Quikrete
 - c. Everbond, L&M Laticrete
 - d. Or approved equal.

PART 3 - EXECUTION

3.1 HISTORIC TREATMENT OF PLASTER, GENERAL

- A. Historic Treatment Appearance Standard: Completed work is to have a uniform appearance as viewed by Engineer from building interior at 10 feet away from surface.
- B. In treating historic plaster, disturb plaster that is to remain in place as minimally as possible.
- C. Leave repaired plasterwork in proper condition for painting.
- D. Install temporary protective measures to protect adjacent historic surfaces.

- E. Illumination: Perform plastering work with adequate, uniform illumination that does not distort the flatness or curvature of surfaces.
- F. Execute work in general accordance with historic preservation practices, to include the U.S. Department of the Interior, National Parks Services, Preservation Brief 21 “Repairing Historic Flat Plaster Walls and Ceilings” and Preservation Brief 23, “Preserving Historic Ornamental Plaster.”

3.2 EXAMINATION

- A. General: Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrate and environmental conditions, installation tolerances, and other conditions affecting performance of the Work.
- B. Plaster to Remain in Place: Examine existing plaster surfaces, with Installer present, to verify conditions of existing plaster assembly are well-bonded, free of defects, and generally in good condition.
 - 1. Notify Engineer of undocumented detrimental conditions including cracks, bulges, loose backup, and other deteriorated items.
 - 2. For locations found to be unbonded or in poor condition, determine extent of and carefully dismantle unsound or deteriorated plaster. Carefully remove areas along straight edges, without damaging surrounding plasterwork.
 - 3. Examine existing substrate to verify existing condition is suitable for installation of plaster patching detail.
 - a. For locations with existing brick backup, verify that mortar joints are struck flush and in sound condition. Notify Engineer immediately if brick substrates without flush or sound joints are observed.
 - b. If existing substrates cannot be prepared to an acceptable condition for plastering work, notify Engineer in writing.
- C. Begin historic plastering work only after unsatisfactory conditions have been corrected.

3.3 PREPARATION FOR PLASTERING

- A. Substrates: Prepare according to plaster manufacturer's written instructions and as follows:
 - 1. Clean surfaces to remove dust, loose particles, grease, wax, oil, incompatible curing compounds, waterborne staining, debris, form-release agents, and other foreign matter and deposits that could impair bond with plaster.
 - 2. For plaster installed over existing brick in a patch repair, provide bonding adhesive at existing clay tile and remaining plaster abutting the replacement plaster before installing new plasterwork.
- B. Mixing: All plaster mixes shall be mixed mechanically in a mixer for a duration of 3 to 5 minutes.
 - 1. Hand mixing is not permitted.

2. Volume of water included in the mix may vary depending on environmental conditions and layer of plaster being installed. Appropriate volume of water shall be determined through the mockup process to avoid excessive shrinkage, dropouts, or plaster layers falling or sliding off the wall.
- C. Maintain supporting members in an undamaged condition so far as practicable.
- D. Tolerances: Completed plaster installation shall not deviate from a true plane by more than 1/8" as measured by a 5' straightedge placed at any location on a surface, to include where plaster is applied over new clay tile or existing substrate.
 1. Remove ridges and protrusions greater than 1/8", and fill depressions greater than 1/4" with high gauge lime putty. Allow to set and dry.

3.4 FLAT PLASTER, REPAIR

- A. General: Determine the extent of and remove unsound and deteriorated plaster at areas determined to be in need of repair.
 1. Notify Engineer and GSD of locations indicated for repairs. Do not remove any plaster to execute repairs until approved by the Engineer and GSD as these will be considered unit price items.
 2. Maintain adjacent plasterwork in an undamaged condition so far as practicable.
 3. Notify Engineer of undocumented detrimental conditions including cracks, bulges, loose backup, and other deteriorated items.
- B. Removal of Deteriorated Plaster: Remove unsound and deteriorated plaster until sound, well-bonded plaster is observed.
 1. At extents of removal area, cut edges at a shallow angle toward the area requiring repair.
 2. Roughen bonding surfaces of existing plaster that are to receive new plaster by light sanding. Clean the surface with a nonmetallic bristle brush after sanding to remove loose plaster.
- C. Preparation: Vacuum or brush all dust, loose plaster, and other debris from the hole. Clean substrate surfaces to remove grease, waxes, oils, waterborne staining, debris, and other foreign matter and deposits that could impair bond with repair material.
 1. Install bonding adhesive to all surfaces that are to receive new plaster. Allow bonding adhesive to cure sufficiently in accordance with the manufacturer's requirements.
 - a. If plaster is not installed within allotted time after installation of bonding adhesive, repeat cleaning procedures and reinstall bonding adhesive as required.
- D. Repairs to Finish Coat Only
 1. When extent of damaged plaster impacts only the finish coat, prepare surfaces to receive new plaster finish and install high gauge lime putty over areas requiring repair.
 2. Apply sufficient material and pressure of patching material to ensure tight contact to existing plaster and bring flush with adjacent plaster finishes.

3. Feather plaster out onto adjacent plaster to create a smooth, flush surface.
4. Lightly sand the surface then clean off the area with a damp sponge.
5. After the surface has dried, brush off any plaster residue or dust.
6. Repair Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 10' away.
7. Allow plaster to cure to moisture contents and pH levels acceptable to paint manufacturer. Finish plaster with paint to match existing in accordance with Section 09 91 23 "Interior Painting."

E. Repairs to Brown and Finish Coats

1. When extent of damaged plaster impacts the brown coat and finish coat, prepare surfaces to receive new plaster finish as discussed above.
2. Install brown coat plaster mix over area to be repaired. Apply with sufficient pressure and material to ensure tight contact to existing plaster surfaces. Scrape back approximately 1/8" from finish surface of adjacent plaster to permit installation of finish coat.
 - a. Float the surface uniformly to provide a surface receptive to bonding of the finish coat.
3. Install finish coat plaster mix over brown coat and bring flush with adjacent plaster surfaces. Feather plaster out onto adjacent plaster to create a smooth, flush surface.
4. Lightly sand the surface then clean off the area with a damp sponge.
5. After the surface has dried, brush off any plaster residue or dust.
6. After one (1) week of drying, check edges of the patch for signs of shrinkage. Repair any small cracks with high gauge lime putty. If large cracks result, completely dismantle work and reinstall.
7. Repair Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 10' away.
8. Allow plaster to cure to moisture contents and pH levels acceptable to paint manufacturer. Finish plaster with paint to match existing in accordance with Section 09 91 23 "Interior Painting."

F. Repairs to Scratch, Brown, and Finish Coats

1. When extent of damaged plaster extends through scratch coat, the full depth of the plaster assembly should be removed to expose existing substrate.
2. Verify existing substrate is suitable to receive new plaster assembly.
 - a. Mortar joints shall be flush, large protrusions shall be removed, and voids or holes shall be filled.
 - b. Notify Engineer immediately if significant cracking is observed in the substrate or the substrate is out-of-plane.
3. Install metal lath throughout repair area. Cut lath to size to fit within repair area.
 - a. Install lath along edges into mortar joints of clay tile substrate.
 - b. Use non-corrosive masonry screws to install lath. Pre-drill holes at a slightly smaller diameter than fastener.

- 1) Install a shim around masonry screw prior to installation to ensure metal lath is furred 1/4" off the surface of the clay tile.
 - 2) Metal lath should be captured between the shim and the head of the fastener.
 - 3) Install fasteners at 6" o.c. in bed and head joints of brick.
4. Install new 3-coat plaster assembly in accordance with procedures for new flat plaster with the following modifications:
 - a. It is permitted that the thickness of the individual layers of the new plaster assembly do not precisely match the existing plaster assembly provided the overall depth of the plaster assembly matches that of the existing plaster.
 - 1) Notify Engineer if thickness of existing plaster assembly is significantly less than new plaster assembly. Thickness of individual layers may be modified to suit existing plaster with the approval of the Engineer.
 - b. Install bonding agent to all surfaces prior to installation of plaster assembly.
 - c. Feather finish coat out onto adjacent plaster to create a smooth, flush surface.
 - d. Lightly sand the surface then clean off the area with a damp sponge.
 - e. After the surface has dried, brush off any plaster residue or dust.
5. After one (1) week of drying, check edges of the patch for signs of shrinkage. Repair any small cracks with high gauge lime putty. If large cracks result, completely dismantle work and reinstall.
6. Repair Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 10' away.
7. Allow plaster to cure to moisture contents and pH levels acceptable to paint manufacturer. Finish plaster with paint to match existing in accordance with Section 09 91 23 "Interior Painting."

G. Repairs to Hairline Cracks

1. The repair procedures for hairline cracks will vary depending on the width of the crack observed. For cracks larger than 1/8", notify the Engineer immediately for direction on dismantling the plaster on each side of the crack.
2. For hairline cracks less than 1/16" wide, install high gauge lime putty over crack and feather out onto adjacent plaster surfaces to create a smooth, flush surface.
 - a. Lightly sand the surface then clean off the area with a damp sponge.
 - b. After the surface has dried, brush off any plaster residue or dust.
 - c. Repair Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 10' away.
 - d. Allow plaster to cure to moisture contents and pH levels acceptable to paint manufacturer. Finish plaster with paint to match existing in accordance with Section 09 91 23 "Interior Painting."
3. For hairline cracks between 1/16" and 1/8", slightly widen the crack with a sharp, pointed tool.

- a. Brush or vacuum the surface to remove dust and debris. Roughen bonding surfaces of remaining plaster and apply bonding adhesive to surfaces to receive new plaster.
- b. Install high gauge lime putty to completely fill joint.
- c. Feather patching material out onto adjacent plaster to create a smooth, flush surface.
- d. Lightly sand the surfaces and clean off the area with a damp sponge.
- e. After the surface has dried, brush off any plaster residue or dust.
- f. Repair Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 10' away.
- g. Allow plaster to cure to moisture contents and pH levels acceptable to paint manufacturer. Finish plaster with paint to match existing in accordance with Section 09 91 23 "Interior Painting."

3.5 INSTALLATION TOLERANCES

- A. Completed plaster repair installation shall not provide a discernible difference in appearance between repair and adjacent plaster surfaces.

3.6 CLEANING AND PROTECTION

- A. Protect work of other trades against damage. Promptly remove plaster from surfaces not indicated to be repaired or plastered. Do not scratch or damage finished surfaces.
- B. Repair floors, walls, and other surfaces stained, marred, or otherwise damaged during plastering.
- C. Correct damage to other historic surfaces and to new work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Engineer, and leave in an undamaged condition.
- D. Remove temporary protection and enclosure of other work.

END OF SECTION 09 03 20

SECTION 09 22 16

NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Non-load-bearing steel framing systems for interior partitions.
 - 2. Suspension systems for interior ceilings and soffits.
 - 3. Grid suspension systems for gypsum board ceilings.
- B. Related Requirements:
 - 1. Section 09 29 00 – “Gypsum Board.”

1.3 REFERENCES

- A. AISI S202-15 "Code of Standard Practice for Cold-formed Steel Framing"
- B. AISI S220-15 "North American Standard for Cold-formed Steel Framing"
- C. ASTM A653/A653M-15 "Specification for Steel Sheet, Zinc-coated Galvanized or Zinc-Iron Alloy-coated Galvannealed by the Hot-dip Process"
- D. ASTM C645-18 "Standard Specification for Nonstructural Steel Framing Members"
- E. ASTM C754-15 "Specification for Installation of Steel Framing Members to Receive Screw-attached Gypsum Panel Products"
- F. ASTM C840-13 "Specification for Application and Finishing of Gypsum Board"

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:

1.5 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of code-compliance certification for studs and tracks.
- B. Evaluation Reports: For post-installed anchors, from ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.

1.6 QUALITY ASSURANCE

- A. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Certified Steel Stud Association, the Steel Framing Industry Association, the Steel Stud Manufacturers Association, or the Supreme Steel Framing System Association.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Notify manufacturer of damaged materials received prior to installation.
- B. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Protect cold-formed metal framing from corrosion, deformation, and other damage during delivery, storage, and handling as required by AISI S202, "Code of Standard Practice for Cold-Formed Steel Structural Framing."

PART 2 - PRODUCTS

2.1 FRAMING SYSTEMS

- A. Framing Members, General: Comply with AISI S220 for conditions indicated.
 - 1. Steel Sheet Components: Comply with AISI S220 requirements for metal unless otherwise indicated
 - 2. Protective Coating: Comply with AISI S220; ASTM A653/A653M, G40; or coating with equivalent corrosion resistance. Galvannealed products are unacceptable.
 - a. Coating demonstrates equivalent corrosion resistance with an evaluation report acceptable to authorities having jurisdiction.
- B. Studs and Track: AISI S220.
 - 1. Minimum Base-Steel Thickness: As indicated on Drawings.
 - 2. Depth: As indicated on Drawings.
- C. Angles: AISI S220.
 - 1. Minimum Base-Steel Thickness: As indicated on Drawings.
 - 2. Leg Dimensions: As indicated on Drawings.

- D. Cold-Rolled Channel Bridging: Steel, 0.0538-inch minimum base-steel thickness, with minimum 1/2-inch-wide flanges.
 - 1. Depth: 1-1/2 inches.
- E. Hat-Shaped, Rigid Furring Channels: ASTM C645.
 - 1. Minimum Base-Steel Thickness: 0.0329 inch.
 - 2. Depth: As indicated on Drawings.

2.2 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards.
 - 1. Fasteners for Steel Framing: #10-16 × 1" self-drilling screw with #3 drill point and pancake head.
 - 2. Post-installed Anchors: 3/16- or 1/4-inch diameter concrete screws, as indicated in the Drawings, with blue coating and hex head.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present , for compliance with requirements and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

3.3 INSTALLATION, GENERAL

- A. Installation Standard: ASTM C754.
 - 1. Gypsum Board Assemblies: Also comply with requirements in ASTM C840 that apply to framing installation.
- B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.
- C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- D. Install bracing at terminations in assemblies.

3.4 INSTALLING FRAMED ASSEMBLIES

- A. Install framing system components according to spacings indicated on the Drawings, but not greater than spacings required by referenced installation standards for assembly types.
 - 1. Single-Layer Application: 16 inches o.c. unless otherwise indicated.
- B. Install studs so flanges within framing system point in same direction.
- C. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
 - 1. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install track section (for cripple studs) at head and secure to jamb studs.
 - a. Install two studs at each jamb unless otherwise indicated.
 - 2. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings as shown in the Drawings.
- D. Direct Furring:
 - 1. Attach to concrete or masonry with screws designed for masonry attachment spaced 16 inches o.c. unless noted otherwise on the Drawings.
- E. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

END OF SECTION 09 22 16

SECTION 09 29 00

GYPSUM BOARD

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Interior gypsum board.

- B. Related Requirements:

- 1. Section 09 22 16 "Non-Structural Metal Framing"
 - 2. Section 09 65 13 "Resilient Base and Accessories"
 - 3. Section 09 91 23 "Interior Painting"

1.3 REFERENCES

- A. ASTM C840-13 "Specification for Application and Finishing of Gypsum Board"
- B. ASTM C1396/C1396M-14a "Specification for Gypsum Board"
- C. ASTM C1047-14a "Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base"
- D. ASTM C475/C475M-15 "Specification for Joint Compound and Joint Tape for Finishing Gypsum Board"
- E. ASTM C1002-14 "Specification for Steel Self-piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs"
- F. ASTM C954-15 "Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 inch (0.84 mm) to 0.112 inch (2.84 mm) in Thickness"

1.4 ACTION SUBMITTALS

A. Product Data: For the following:

1. Gypsum wallboard.
2. Metal trim.

B. Samples: For the following products:

1. Metal Trim Accessories: Full-size Sample in 12-inch-long length for each trim accessory indicated.

1.5 MOCKUPS

A. Build mockups of at least 100 sq. ft. in surface area to demonstrate aesthetic effects and to set quality standards for materials and execution.

1. Apply paint on exposed surfaces for review of mockups.
2. Simulate finished lighting conditions for review of mockups.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE AND HANDLING

A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.7 FIELD CONDITIONS

A. Environmental Limitations: Comply with ASTM C840 requirements or gypsum board manufacturer's written instructions, whichever are more stringent.

B. Do not install paper-faced gypsum panels until installation of all exterior waterproofing is complete..

C. Do not install panels that are wet, moisture damaged, and mold damaged.

1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or blotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain each type of gypsum panel and joint finishing material from single source with resources to provide products of consistent quality in appearance and physical properties.

2.2 PERFORMANCE REQUIREMENTS

2.3 GYPSUM BOARD, GENERAL

- A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.4 INTERIOR GYPSUM BOARD

- A. Gypsum Wallboard: ASTM C1396/C1396M.

- 1. Thickness: 1/2 inch.
- 2. Long Edges: Tapered.

2.5 TRIM ACCESSORIES

- A. Interior Trim: ASTM C1047.

- 1. Material: Galvanized steel sheet or rolled zinc.
- 2. Shapes:
 - a. Cornerbead.
 - b. L-Bead: L-shaped; exposed long flange receives joint compound.
 - c. Expansion (control) joint.

2.6 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C475/C475M.

- B. Joint Tape:

- 1. Interior Gypsum Board: Paper.

- C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.

- 1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
- 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.

- a. Use setting-type compound for installing paper-faced metal trim accessories.
- 3. Fill Coat: For second coat, use setting-type, sandable topping compound.
- 4. Finish Coat: For third coat, use setting-type, sandable topping compound.
- 5. Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound.

2.7 AUXILIARY MATERIALS

- A. Steel Drill Screws: ASTM C1002 unless otherwise indicated.
 - 1. Use screws complying with ASTM C954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
- B. Masonry Screws: Provide one of the following:
 - 1. Hilti Kwik-Con;
 - 2. Simpson Strong-Tie Titen Turbo;
 - 3. Tapcon Screw Anchors;
 - 4. Or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates including welded hollow-metal frames and support framing, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION AND FINISHING OF PANELS, GENERAL

- A. Comply with ASTM C840. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- B. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- C. Form control and expansion joints with space between edges of adjoining gypsum panels.
- D. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.

1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
 2. Fit gypsum panels around ducts, pipes, and conduits.
 3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch-wide joints to install sealant.
- E. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch-wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- F. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

3.3 INSTALLATION OF INTERIOR GYPSUM BOARD

- A. Install interior gypsum board in the following locations:
1. Wallboard Type: As indicated on Drawings.
- B. Single-Layer Application:
1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing unless otherwise indicated.
 2. On partitions/walls, apply gypsum panels horizontally (perpendicular to framing) unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of panels.

3.4 INSTALLATION OF TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints at locations indicated on Drawings.
- C. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners.
 2. L-Bead: Use where indicated on Drawings.

3.5 FINISHING OF GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C840:
 - 1. Level 5.
 - a. Primer and its application to surfaces are specified in Section 09 91 23 "Interior Painting."

3.6 PROTECTION

- A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.
- B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- C. Remove and replace panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture-damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 09 29 00

SECTION 09 65 13

RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Thermoplastic-rubber base.
 - 2. Rubber molding accessories.
- B. Related Sections
 - 1. Section 09 29 00 "Gypsum Board"
 - 2. Section 09 68 13 "Tile Carpeting"

1.3 REFERENCES

- A. ASTM F1861-21 "Standard Specification for Resilient Wall Base"

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples for Initial Selection: For each type of product indicated.
- C. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than 12 inches long.
- D. Product Schedule: For resilient base and accessory products.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.6 QUALITY ASSURANCE

- A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
 1. Coordinate mockups in this Section with mockups specified in other Sections.
 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.8 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive resilient products during the following periods:
 1. 48 hours before installation.
 2. During installation.
 3. 48 hours after installation.
- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.
- C. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 THERMOPLASTIC-RUBBER BASE

- A. Product Standard: ASTM F1861, Type TP (rubber, thermoplastic).
 1. Group: I (solid, homogeneous).
 2. Style: Cove
- B. Thickness: 0.125 inch.

- C. Height: 4 inches.
- D. Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.
- E. Outside Corners: Job formed.
- F. Inside Corners: Job formed.
- G. Colors: To be selected by GSD and Engineer from Manufacturer's standard colors.

2.2 RUBBER MOLDING ACCESSORY

- A. Description: Rubber transition strips.
- B. Profile and Dimensions: As indicated.
- C. Locations: Provide rubber molding accessories in areas indicated.
- D. Colors and Patterns: To be selected by GSD and Engineer from Manufacturer's standard colors.

2.3 INSTALLATION MATERIALS

- A. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
 - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- B. Do not install resilient products until materials are the same temperature as space where they are to be installed.

1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.
- C. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient base.
- B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
- C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
- D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- E. Do not stretch resilient base during installation.
- F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
- G. Job-Formed Corners:
 1. Outside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
 - a. Form without producing discoloration (whitening) at bends.
 2. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
 - a. Cope corners to minimize open joints.

3.4 RESILIENT ACCESSORY INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient accessories.
- B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install transition strips at edges of carpeting that would otherwise be exposed.

3.5 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.
- B. Perform the following operations immediately after completing resilient-product installation:

1. Remove adhesive and other blemishes from surfaces.
- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

END OF SECTION 09 65 13

SECTION 09 68 13

TILE CARPETING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Modular carpet tile.
- B. Related Requirements:
 - 1. Section 09 65 13 “Resilient Base and Accessories” for resilient wall base and accessories installed with carpet tile.

1.3 REFERENCES

- A. CRI 104-15 "Standard for Installation of Commercial Carpet"
- B. NSF/ANSI 140-19 "Sustainability Assessment for Carpet"
- C. California Department of Public Health’s “Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers.”
- D. ASTM F1869-22 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Subfloor Using Anhydrous Calcium Chloride"
- E. ASTM F1270-97(2019) "Standard Practice for Preparing and Locating Emergency Muster Lists"

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review methods and procedures related to carpet tile installation including, but not limited to, the following:

- a. Review delivery, storage, and handling procedures.
- b. Review ambient conditions and ventilation procedures.
- c. Review subfloor preparation procedures.
- d. Review concrete examination and testing procedures.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
 2. Include manufacturer's written installation recommendations for each type of substrate.
- B. Samples for Initial Selection: Provide samples of three different colors for final color selection.
 1. Three colors to be selected by GSD and Engineer from Manufacturer's list of standard options.
 2. Include Samples of exposed edge, transition, and other accessory stripping involving color selection.
- C. Samples for Verification: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
 1. Carpet Tile: Full-size Sample.
 2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch-long Samples.
- D. Product Schedule: For carpet tile. Use same designations indicated on Drawings.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Test Reports: For carpet tile, for tests performed by a qualified testing agency.
- C. Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For carpet tiles to include in maintenance manuals. Include the following:
 1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
 2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.

1.8 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Carpet Tile: Full-size units equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd.

1.9 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association at the Commercial II certification level.
- B. Mockups: Build in-place mockup to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
 - 1. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.10 DELIVERY, STORAGE, AND HANDLING

- A. Comply with the Carpet and Rug Institute's CRI 104.

1.11 FIELD CONDITIONS

- A. Comply with the Carpet and Rug Institute's CRI 104 for temperature, humidity, and ventilation limitations.
- B. Environmental Limitations: Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.
- C. Do not install carpet tiles over concrete slabs have dried from previous leakage and all exterior waterproofing is in place and slabs are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.
- D. Where demountable partitions or other items are indicated for installation on top of carpet tiles, install carpet tiles before installing these items.

1.12 WARRANTY

- A. Special Warranty for Carpet Tiles: Manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.
 - 1. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
 - 2. Failures include, but are not limited to, the following:

- a. More than 10 percent edge raveling, snags, and runs.
 - b. Dimensional instability.
 - c. Excess static discharge.
 - d. Loss of tuft-bind strength.
 - e. Loss of face fiber.
 - f. Delamination.
3. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CARPET TILE

- A. Color: To be selected by GSD and Engineer from Manufacturer's list of standard options.
- B. Pattern: Basis of design shall be Advance 5T202, by Shaw Contract.
- C. Fiber Content: 100 percent nylon 6.
- D. Pile Characteristic: Multi-level pile.
- E. Average Density: 8400 oz./cu. yd., minimum.
- F. Finished Pile Thickness: 0.085 inch
- G. Stitches: 9.0 stitches per inch.
- H. Gage: 1/12.
- I. Surface Pile Weight: 20 oz./sq. ft..
- J. Primary Backing/Backcoating: Manufacturer's standard composite materials.
- K. Secondary Backing: Manufacturer's standard material.
- L. Size: 12 x 48 inches.
- M. Applied Treatments:
 1. Soil-Resistance Treatment: Manufacturer's standard treatment.
- N. Sustainable Design Requirements:
 1. Sustainable Product Certification: Gold level certification according to ANSI/NSF 140.
 2. Verify flooring products comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.2 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, non-staining, pressure-sensitive type to suit products and subfloor conditions indicated, that comply with flammability requirements for installed carpet tile, and are recommended by carpet tile manufacturer for releasable installation.
 - 1. Verify adhesives have a VOC content of 50 g/L or less.
 - 2. Verify adhesive complies with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance.
- B. Examine carpet tile for type, color, pattern, and potential defects.
- C. Concrete Slabs: Verify that finishes comply with Manufacturer's requirements.
 - 1. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft., and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
 - a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
 - b. Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
 - c. Perform additional moisture tests recommended in writing by adhesive and carpet tile manufacturers. Proceed with installation only after substrates pass testing.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. General: Comply with the Carpet and Rug Institute's CRI 104 and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.

- B. Remove all previous carpet glue and other residue that may impact adhesion of new installation.
- C. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch unless more stringent requirements are required by manufacturer's written instructions.
- D. Concrete Substrates: Remove coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturers.
- E. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.3 INSTALLATION

- A. General: Comply with the Carpet and Rug Institute's CRI 104, Section 10, "Carpet Tile," and with carpet tile manufacturer's written installation instructions.
- B. Installation Method: As recommended in writing by carpet tile manufacturer.
- C. Maintain dye-lot integrity. Do not mix dye lots in same area.
- D. Maintain pile-direction patterns recommended in writing by carpet tile manufacturer.
 - 1. Stagger.
- E. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.
- F. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet tile as marked on subfloor. Use nonpermanent, non-staining marking device.
- H. Install pattern parallel to walls and borders.

3.4 CLEANING AND PROTECTION

- A. Perform the following operations immediately after installing carpet tile:
 - 1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.
 - 2. Remove yarns that protrude from carpet tile surface.
 - 3. Vacuum carpet tile using commercial machine with face-beater element.
- B. Protect installed carpet tile to comply with the Carpet and Rug Institute's CRI 104, Section 13.7.

- C. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION 09 68 13

SECTION 09 91 23

INTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Application mineral silicate paint/coating.

- B. Related Requirements:

- 1. Section 03 30 00 – “Cast-In-Place Concrete”
 - 2. Section 09 29 00 – “Gypsum Board”

- C. REFERENCES:

- 1. ASTM E96/E96M-15, “Standard Test Methods for Water Vapor Transmission of Materials.”
 - 2. ASTM E 514/E514M-20, “Standard Test Method for Water Penetration and Leakage Through Masonry.”
 - 3. ASTM G 154-12a, “Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.”
 - 4. ASTM D 6886-12, “Standard Test Method for Determination of the Individual Volatile Organic Compounds (VOCs) in Air-Dry Coatings by Gas Chromatography.”

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.

- 1. Include preparation requirements and application instructions.
 - 2. Indicate VOC content.

- B. Samples: For each type of topcoat product.

- C. Samples for Initial Selection: For each type of topcoat product.

1. Submit paint manufacturer's color deck containing all standard colors.
 - a. GSD and Engineer will color selections from Manufacturer's standard colors.
- D. Samples for Verification: For each type of paint system and each color and gloss of topcoat selected by GSD and Engineer.
 1. Submit Samples on rigid backing, 8 inches square.
 2. Apply coats on Samples in steps to show each coat required for system.
 3. Label each coat of each Sample.
 4. Label each Sample for location and application area.
- E. Product Schedule: Use same designations indicated on Drawings and in the Interior Painting Schedule to cross-reference paint systems specified in this Section. Include color designations.

1.4 ACTION SUBMITTALS

- A. Product Data: Submit product data showing material proposed. Submit sufficient information to determine compliance with the Drawings and Specifications. Provide published documentation describing materials, characteristics and limitations.
- B. Samples: Submit samples for verification purposes, fabrication techniques and workmanship.
- C. Manufacturer's Instructions: Submit manufacturer's instructions including technical data sheets, material safety data sheets, mixing instructions, application requirements, special procedures, and conditions requiring special attention.

1.5 QUALITY ASSURANCE

- A. Qualifications:
 1. Manufacturer Qualifications: Provide evidence that Manufacturer is a firm engaged in the manufacture of mineral silicate paint/coatings of types required, and whose products have been in use for a minimum of fifteen years.
 2. Applicator Qualifications:
 - a. Provide evidence Applicator is a firm having successful application of products within this specification with at least one project in the last 24 months similar in type and scope to that required for this project, and having passed a product certification training course provided by the manufacturer prior to the execution of this unit of work.
- B. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 1. Prior to application of the work, fabricate and erect mockups for each type of finish and application to verify selections made under sample submittals and to demonstrate aesthetic effects as well as qualities of materials and execution.

2. Build of mockups to comply with the following requirements using materials indicated for final unit of work.
3. Locate mockups where directed by GSD and Engineer.
4. Demonstrate the proposed range of aesthetic effects and workmanship to be expected in the completed work.
5. Obtain the Engineer's acceptance of mockups before start of final unit of work.
6. Retain and maintain mockups during construction in disturbed condition as a standard for judging completed units of work.
7. Maintain a record of approved mock up's product mixing and application steps to incorporate into final unit of work to ensure color consistency and textural aesthetics.
8. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by GSD and Engineer at no addition cost to the GSD.
9. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
10. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

C. Tracking Job Progress with Daily Logs

1. Maintain a daily record of the weather conditions, of material ordered and delivered, material used, inspections, areas of work that were completed, and questions raised and answers received.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the Project site in supplier's or manufacturer's original wrappings and containers, labeled with manufacturer's name, material and product brand name, and lot number, if any.
- B. Store materials in their original undamaged packages and containers inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity. Check Manufacturers Product data for additional storage information.

1.7 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

1.8 WARRANTY

- A. Provide manufacturer's written product warranty.
 1. Warranty period from date of Substantial Completion is 15 years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain each paint product from single source from single manufacturer.
- B. Basis of Design:
 - 1. Items specified are to establish a standard of quality for design, function, materials, compatibility, performance, warranty, and appearance.
 - 2. Equivalent products by listed manufacturers are acceptable.
 - 3. The Engineer is the sole judge of the basis of what is equivalent.

2.2 PAINT PRODUCTS, GENERAL

- A. Material Compatibility:
 - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

2.3 MINERAL SILICATE PAINTS

- A. System Description: An incombustible two-coat system comprising of a “Fine” smooth base coat and a “Fine” smooth top coat.
 - 1. Mineral Silicate paint/coating penetrates the surface and chemically reacts to combine with the substrate through chemical bonds forming a hard amorphous microporous layer with extremely high vapor permeability.
 - 2. Unaffected by acids, UV exposure, or air-borne pollutants.
 - 3. Unique alkaline mineral layer structure protects against liquid water penetration into the coated substrate and maintains moisture balance through vapor diffusion to keep wall assemblies breathable and dry, thus resisting mold and biological growth.
 - 4. Will not reduce substrate vapor permeability.
- B. Performance Requirements:
 - 1. ASTM E 96 Vapor Permeability: 60 perms, minimum.
 - 2. ASTM G 154 Accelerated Weathering: no fading, cracking, peeling.
 - 3. ASTM E 514 62-MPH Wind-Driven Rain Test: no water penetration.
 - 4. ASTM D 6886-12 Standard Test Method for Individual Volatile Organic Compounds (VOCs): Less than 10 grams per liter.
- C. Base Coat and Topcoat: Provide mineral silicate based opaque paint/coating:
 - 1. Basis of Design: “BEECK Renosil Fine” by BEECK Mineral Paints.

2.4 PRIMER

- A. Alkali-Resistant, Water-Based Primer (MPI #3): Water-based primer formulated for use on alkaline surfaces, such as plaster, vertical concrete, and masonry.
 - 1. Product used must comply with the following requirement:
 - a. Use finish coating manufacturer's recommended primer for application over painted and unpainted masonry surfaced with a maximum VOC content of 50 g/L.

2.5 WATER-BASED FINISH COAT

- A. Interior, Latex, High-Performance Architectural Coating, Eggshell (MPI Gloss Level 2) (MPI #138): High-performance architectural latex coating providing a significantly higher level of performance than conventional latex paints in the areas of scrub resistance, burnish resistance, and ease of stain removal.
 - 1. Product used must comply with the following requirement:
 - a. Volume of Solids: product must have a minimum volume of solids of 40%
 - 2. Subject to compliance with Project requirements, the following products may be used:
 - a. Aura Waterborne Interior Paint, by Benjamin Moore;
 - b. Suprema Interior Velvet Paint, by Dunn-Edwards;
 - c. Prominence Interior Paint, PPG;
 - d. Or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Confirm by examination the areas and conditions under which the work is to be applied for compliance with manufacturer's instructions. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. Verify substrate is secure, sound, dry, and absorbent, and free of dirt, grease, salts, oil-based paints, release agents, curing agents, and other bond breakers.
- C. Verify substrate has no pretreatments or priming materials applied unless such conditions are approved by manufacturer.
- D. Verify surfaces or materials to be coated are fully cured to manufacturer recommendations.
- E. Verify surfaces or materials to be coated are not sanding, calking or high absorbent.
- F. Confirm coating surfaces are less than 40 percent relative humidity as measured by a masonry moisture meter prior to application of mineral silicate paints/coatings.

- G. Beginning of the work shall indicate acceptance of the areas and conditions as satisfactory by the Applicator.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations applicable to substrates and paint systems indicated.
- B. Protection:
 - 1. Lay ground cloths and take measures as necessary to protect surfaces subject to contact by products specified by this Section.
 - 2. Mineral Silicate Paints may etch or bond to glass, metal, and concrete.
- C. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- D. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions.
- B. Use applicators and techniques suited for paint and substrate indicated.
- C. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
- D. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
- E. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- F. Maintain temperature during and after application. Substrate and ambient air temperature must be between 41 °F (5 °C) and 86 °F (30 °C).

- G. Apply in full coverage evenly distributed coats to a smooth mineral matte finish without lap lines, voids, “holidays”, or drips. Compare manufacturer-verified mockup consumption data with application consumption data to ensure enough product is applied.
- H. Maintain a wet edge and even coat to prevent sight lines and textural differences.
- I. Apply enough product to prevent shading and textural differences in the base coat that contribute to striping. Apply product without stops on continuous surfaces from corner to corner.
- J. When rolling product, roll off finishing in same direction across the entire façade to prevent shading differences that can affect appearance and color.
- K. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- L. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- M. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry-Film Thickness Testing: GSD may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry-film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry-film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry-film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
 - 1. Clean tools, spills, and accidental dips immediately with plenty of water.
 - 2. Do not clean equipment with free-draining water and prevent solvents, thinners, cleaners, and other contaminants from entering into waterways, sanitary and storm drain systems, and ground.
 - 3. Dispose of contaminants in accordance with requirements of authorities having jurisdiction.
 - 4. Allow empty paint cans to dry before disposal.

- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces. Leave applications clean and premises free from residue and debris from work of this Section.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE

- A. Exposed Uncoated Concrete Slab Soffits:
 - 1. Locations: Reading room, break room, east and west storage rooms.
 - 2. Paint: 2-coat potassium silicate mineral paint system
 - a. Base Coat: Same as topcoat
 - b. Topcoat: Potassium silicate mineral paint
- B. Gypsum Board:
 - 1. Locations: Reading room and anteroom
 - 2. Paint: High-Performance Architectural Latex System (MPI #138)
 - a. Prime Coat: Interior latex primer sealer as recommended by topcoat manufacturer.
 - b. Intermediate Coat: Matching topcoat.
 - c. Topcoat: Interior, latex, high-performance architectural coating, eggshell
- C. Previous-Coated Brick:
 - 1. Locations: East and west storage rooms.
 - 2. Paint: High-Performance Architectural Latex System
 - a. Prime Coat: Alkali-resistant, water-based primer (MPI #3)
 - b. Intermediate Coat: Matching topcoat.
 - c. Topcoat: Interior, latex, high-performance architectural coating, eggshell
- D. New and Existing Plaster:
 - 1. Location: Break room
 - 2. Paint: High-Performance Architectural Latex System
 - a. Prime Coat: Interior latex primer sealer as recommended by topcoat manufacturer.
 - b. Intermediate Coat: Matching topcoat.
 - c. Topcoat: Interior, latex, high-performance architectural coating, eggshell.

END OF SECTION 09 91 23

SECTION 09 96 00

HIGH-PERFORMANCE COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of high-performance coating systems on the following substrates:
 - 1. Interior Substrates:
 - a. Steel.
 - b. Galvanized metal.
- B. Related Requirements:
 - 1. Section 05 12 83 "Structural Steel Repairs"
 - 2. Section 09 91 23 "Interior Painting" for general field painting.

1.3 REFERENCES

- A. D523-14(2018) "Standard Test Method for Specular Gloss"
- B. NACE No. 2/SSPC-SP 10(2006) "Near-White Metal Blast Cleaning"
- C. MPI (2019) "Architectural Painting Specification Manual"

1.4 DEFINITIONS

- A. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.
- B. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.
- C. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - 1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
 - 2. Indicate VOC content.
- B. Samples for Initial Selection: For each type of topcoat product indicated.
- C. Samples for Verification: For each type of coating system and each color and gloss of topcoat indicated.
 - 1. Submit Samples on rigid backing, 8 inches square.
 - 2. Apply coats on Samples in steps to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.
- D. Product List: Cross-reference to coating system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Coatings: 5 percent, but not less than 1 gal. of each material and color applied.

1.7 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Engineer will select one surface to represent surfaces and conditions for application of each coating system.
 - 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Engineer at no added cost to the GSD.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Engineer specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.9 FIELD CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 HIGH-PERFORMANCE COATINGS, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
 - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
 - 3. Products shall be of same manufacturer for each coat in a coating system.
- C. Colors: Match ceiling color in reading room, break room, and ante room, respectively.

2.2 EPOXY PRIMERS

- A. Primer, zinc-rich, epoxy, MPI #20
 - 1. Products used must comply with the following requirements:
 - a. Volume of Zinc in dried film: minimum 80% by weight
 - b. Volume of solids: minimum 65% .
 - 2. Subject to compliance with Project requirements, the following products may be used:
 - a. Zinc Clad IV, by Sherwin-Williams
 - b. Aquapon Zinc Rich Epoxy, by PPG Architectural
 - c. Carbozinc 859, by Carboline

B. Primer, epoxy, anti-corrosive, for metal, MPI #101

1. Product used must comply with the following requirement:
 - a. Volume of solids: minimum 68% .
2. Subject to compliance with Project requirements, the following products may be used:
 - a. Dura-Plate 235 Multi-Purpose Epoxy, by Sherwin-Williams
 - b. Surface Tolerant Epoxy Mastic Coating, by Benjamin Moore
 - c. Amerlock 600, by PPG Architectural

2.3 EPOXY FINISH COATS

A. Epoxy, high build, low gloss, MPI #108.

1. Product used must comply with the following requirement:
 - a. Volume of solids: minimum 72%
 - b. Color: match paint color in Reading Room and Break Room.
2. Subject to compliance with Project requirements, the following products may be used:
 - a. Marcopoxy 646 Fast Cure Epoxy, by Sherwin-Williams
 - b. Clovamastic Hi-Build Low Temperature Cure Epoxy, by Cloverdale Paint
 - c. Carboguard 60, by Carboline

2.4 SOURCE QUALITY CONTROL

A. Testing of Coating Materials: GSD reserves the right to invoke the following procedure:

1. GSD will engage the services of a qualified testing agency to sample coating materials. Contractor will be notified in advance and may be present when samples are taken. If coating materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. GSD may direct Contractor to stop applying coatings if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying coating materials from Project site, pay for testing, and recoat surfaces coated with rejected materials. Contractor will be required to remove rejected materials from previously coated surfaces if, on recoating with complying materials, the two coatings are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and coating systems indicated.
- B. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
- C. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
 - 1. SSPC-SP 10/NACE No. 2.
- D. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied coatings.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 - 1. Use applicators and techniques suited for coating and substrate indicated.
 - 2. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Apply coatings to metal components to be painted in the shop where possible to limit amount of painting required in building interior to touchup work. Apply paint in interior space only with adequate ventilation. A ventilation system shall be setup to generate and maintain a negative pressure of 0.5 psi minimum within the interior workspace relative to the rest of capitol building interior, as measured by manometer, to prevent infiltration of odors into the occupied space. Ventilation system shall run continuously during painting operations and curing.

- C. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- D. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- E. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: GSD may engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.
 - 1. Contractor shall touch up and restore coated surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Engineer, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

3.6 INTERIOR HIGH-PERFORMANCE COATING SCHEDULE

- A. Steel Substrates (Concealed): Including uncovered structural steel and new steel lintels.
 - 1. Epoxy Zinc-Rich Primer System:
 - a. Prime Coat: Primer, zinc-rich, epoxy, MPI #20.
- B. Galvanized-Metal Substrates: Including exposed conduits and ductwork.
 - 1. Epoxy over Epoxy Primer System:

- a. Prime Coat: Primer, epoxy, anti-corrosive, for metal, MPI #101.
- b. Intermediate Coat: Epoxy, matching topcoat.
- c. Topcoat: Epoxy, high build, low gloss, MPI #108.

END OF SECTION 09 96 00

SECTION 22 14 13

FACILITY STORM DRAINAGE PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. PVC pipe and fittings.
 - 2. Specialty pipe and fittings.
 - 3. Encasement for underground metal piping.
- B. Related Requirements:
 - 1. Section 22 14 23 – “Storm Drainage Piping Specialties”
 - 2. Section 31 20 00 – “Excavation”

1.3 REFERENCES

- A. NSF/ANSI Standard 14 (2021) "Plastics Piping Systems Components and Related Materials"
- B. ASTM D2665-20 "Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings"
- C. ASTM D3311-22 "Standard Specification for Drain, Waste, and Vent (DWV) Plastic Fittings Patterns"
- D. ASTM F656-21 "Standard Specification for Primers for Use in Solvent Cement Joints of Poly(Vinyl Chloride) (PVC) Plastic Pipe and Fittings"
- E. ASTM D2564-20 "Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems"
- F. ASTM C1173-22 "Standard Specification for Flexible Transition Couplings for Underground Piping Systems"
- G. ASTM C564-20a "Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings"

- H. ASTM F477-14(2021) "Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe"
- I. ASTM D5926-15(2020) "Standard Specification for Poly (Vinyl Chloride) (PVC) Gaskets for Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems"
- J. ASTM C1107/C1107M-20 "Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)"
- K. ASTM D2321-20 "Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications"
- L. CISPI 310-20 "Specification for Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications"
- M. CISPI (2006) "Cast Iron Soil Pipe and Fittings Handbook"
- N. ASTM F402-18 "Standard Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings"
- O. ASTM D2855-20 "Standard Practice for the Two-Step (Primer and Solvent Cement) Method of Joining Poly(Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets"

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Detail storm drainage piping. Show support locations, type of support, weight on each support, required clearances, and other details, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

- 1. Structural members to which drainage piping will be attached or suspended from.

- B. Field quality-control reports.

1.6 QUALITY ASSURANCE

- A. Piping materials shall bear label, stamp, or other markings of specified testing agency.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Components and installation shall be capable of withstanding the following minimum working pressure unless otherwise indicated:
 - 1. Storm Drainage Piping: 10-foot head of water.

2.2 PVC PIPE AND FITTINGS

- A. NSF Marking: Comply with NSF 14, "Plastics Piping Systems Components and Related Materials," for plastic piping components. Include marking with "NSF-drain" for plastic storm drain and "NSF-sewer" for plastic storm sewer piping.
- B. Solid-Wall PVC Pipe: ASTM D 2665; Drain, Waste, and Vent.
- C. PVC Socket Fittings: ASTM D 2665, made to ASTM D 3311, Drain, Waste, and Vent patterns and to fit Schedule 40 pipe.
- D. Adhesive Primer: ASTM F 656.
- E. Solvent Cement: ASTM D 2564.

2.3 SPECIALTY PIPE FITTINGS

- A. Transition Couplings:
 - 1. General Requirements: Fitting or device for joining piping with small differences in ODs, of different materials, or where otherwise indicated in the Drawings. Include end connections same size as and compatible with pipes to be joined.
 - 2. Fitting-Type Transition Couplings: Manufactured piping coupling or specified-piping-system fitting.
 - 3. Unshielded, Non-pressure Transition Couplings:
 - a. Standard: ASTM C 1173.
 - b. Description: Elastomeric sleeve, reducing or transition pattern. Include shear ring and corrosion-resistant-metal tension band and tightening mechanism on each end.
 - c. Sleeve Materials:
 - 1) For Cast-Iron Soil Pipes: ASTM C 564, rubber.
 - 2) For Plastic Pipes: ASTM F 477, elastomeric seal or ASTM D 5926, PVC.
 - 3) For Dissimilar Pipes: ASTM D 5926, PVC or other material compatible with pipe materials being joined.

2.4 SLEEVE-SEAL SYSTEMS

- A. Description: Modular sealing-element unit, designed for field assembly, for filling annular space between piping and sleeve.
 - 1. Designed to form a hydrostatic seal of 20 psig minimum.
 - 2. Sealing Elements: EPDM-rubber interlocking links shaped to fit surface of pipe. Include type and number required for pipe material and size of pipe.
 - 3. Pressure Plates: Stainless steel.
 - 4. Connecting Bolts and Nuts: Stainless steel of length required to secure pressure plates to sealing elements.

2.5 GROUT

- A. Description: Nonshrink, for interior and exterior sealing openings in non-fire-rated walls or floors.
- B. Standard: ASTM C1107/C1107M, Grade B, post-hardening and volume-adjusting, dry, hydraulic-cement grout.
- C. Design Mix: 5000 psi, 28-day compressive strength.
- D. Packaging: Premixed and factory packaged.

PART 3 - EXECUTION

3.1 EARTH MOVING

- A. Comply with requirements for excavating, trenching, and backfilling specified in Section 31 20 00 "Excavation."

3.2 PIPING INSTALLATION

- A. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems.
 - 1. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations.
 - 2. Install piping as indicated unless deviations from layout are approved on coordination drawings.
- B. Install piping at indicated slopes.
- C. Install piping free of sags and bends.
- D. Install fittings for changes in direction and branch connections.
- E. Make changes in direction for piping using appropriate branches, bends, and long-sweep bends.

1. Do not change direction of flow more than 90 degrees.
 2. Use proper size of standard increasers and reducers if pipes of different sizes are connected.
 - a. Reducing size of drainage piping in direction of flow is prohibited.
- F. Lay buried building piping beginning at low point of each system.
1. Install true to grades and alignment indicated, with unbroken continuity of invert. Place hub ends of piping upstream.
 2. Install required gaskets according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements.
 3. Maintain swab in piping and pull past each joint as completed.
- G. Install piping at the following minimum slopes unless otherwise indicated:
1. Building Storm Drain: 2 percent downward in direction of flow for piping NPS 4 and larger.
 2. Horizontal Storm Drainage Piping: 2 percent downward in direction of flow.
- H. Install steel piping according to applicable plumbing code.
- I. Install aboveground PVC piping according to ASTM D 2665.
- J. Install underground PVC piping according to ASTM D 2321.
- K. Plumbing Specialties:
1. Install drains in storm drainage gravity-flow piping.
 - a. Comply with requirements for drains specified in Section 22 14 23 "Storm Drainage Piping Specialties."

3.3 INSTALLATION OF SLEEVE-SEAL SYSTEMS

- A. For sleeves that will have sleeve-seal system installed, select sleeves of size large enough to provide 1-inch annular clear space between piping and concrete slabs and walls.
- B. Install sleeve-seal systems in sleeves in exterior concrete walls and slabs-on-grade at service piping entries into building, and passing through exterior walls. Grout annular space between sleeve and concrete.
- C. Select type, size, and number of sealing elements required for piping material and size and for sleeve ID or hole size. Position piping in center of sleeve. Center piping in penetration, assemble sleeve-seal system components, and install in annular space between piping and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make a watertight seal.

3.4 JOINT CONSTRUCTION

- A. Hubless, Cast-Iron Soil Piping Coupled Joints:
 - 1. Join according to CISPI 310 and CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for hubless-piping coupling joints.
- B. Plastic, Nonpressure-Piping, Solvent-Cemented Joints: Clean and dry joining surfaces. Join pipe and fittings according to the following:
 - 1. Comply with ASTM F 402 for safe-handling practice of cleaners, primers, and solvent cements.
 - 2. PVC Piping: Join according to ASTM D 2855 and ASTM D 2665 appendices.
- C. Joint Restraints and Sway Bracing:
 - 1. Provide joint restraints and sway bracing for storm drainage piping joints to comply with the following conditions:
 - a. Provide rigid sway bracing for pipe and fittings 4 inches and larger, upstream and downstream of all changes in direction 45 degrees and greater.

3.5 SPECIALTY PIPE FITTING INSTALLATION

- A. Transition Couplings:
 - 1. Install transition couplings at joints indicated in the drawings.
 - 2. In Drainage Piping: Unshielded, non-pressure transition couplings.

3.6 INSTALLATION OF HANGERS AND SUPPORTS

- A. Install hangers for PVC piping, with maximum horizontal spacing and minimum rod diameters, to comply with manufacturer's written instructions, locally enforced codes, and authorities having jurisdiction requirements, whichever are most stringent.
- B. Support horizontal piping and tubing within 12 inches of each fitting and coupling.
- C. Support vertical PVC piping with manufacturer's written instructions, locally enforced codes, and authorities having jurisdiction requirements, whichever are most stringent.

3.7 CONNECTIONS

- A. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Connect interior storm drainage piping to exterior storm drainage piping. Use transition fitting to join dissimilar piping materials.
- C. Connect storm drainage piping to roof drains and storm drainage specialties.

- D. Where installing piping adjacent to equipment, allow space for service and maintenance.

3.8 IDENTIFICATION

- A. Identify exposed storm drainage piping.

3.9 FIELD QUALITY CONTROL

- A. During installation, notify authorities having jurisdiction at least 24 hours before inspection must be made. Perform tests specified below in presence of authorities having jurisdiction.
 - 1. Roughing-in Inspection: Arrange for inspection of piping before concealing or closing-in after roughing-in.
 - 2. Final Inspection: Arrange for final inspection by authorities having jurisdiction to observe tests specified below and to ensure compliance with requirements.
- B. Test storm drainage piping according to procedures of authorities having jurisdiction or, in absence of published procedures, as follows:
 - 1. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired.
 - a. If testing is performed in segments, submit separate report for each test, complete with diagram of portion of piping tested.
 - 2. Leave uncovered and unconcealed new, altered, extended, or replaced storm drainage piping until it has been tested and approved.
 - a. Expose work that was covered or concealed before it was tested.
 - 3. Test Procedure:
 - a. Close openings in piping system and fill with water to point of overflow, but not less than 10-foot head of water. From 15 minutes before inspection starts until completion of inspection, water level must not drop. Inspect joints for leaks.
 - 4. Repair leaks and defects with new materials and retest piping, or portion thereof, until satisfactory results are obtained.
 - 5. Prepare reports for tests and required corrective action.
- C. Piping will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.10 CLEANING AND PROTECTION

- A. Clean interior of piping. Remove dirt and debris as work progresses.

- B. Protect drains during remainder of construction period to avoid clogging with dirt and debris and to prevent damage from traffic and construction work.
- C. Place plugs in ends of uncompleted piping at end of day and when work stops.

END OF SECTION 22 14 13

SECTION 22 14 23

STORM DRAINAGE PIPING SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Deck roof drains.
 - 2. Trench drains.

- B. Related Requirements:

- 1. Section 03 30 00 – “Cast-In-Place Concrete”
 - 2. Section 05 03 72 – “Historic Decorative Metal Railing Repair”
 - 3. Section 22 14 13 – “Facility Storm Drainage Piping”

1.3 REFERENCES

- A. AASHTO M306-10 "Standard Specification for Drainage, Sewer, Utility, and Related Castings"
- B. ASME A112.6.4 (2022) "Roof, Deck, and Balcony Drains"
- C. ASME A112.6.3 (2019) "Floor and Trench Drains"
- D. ASTM B117-19 "Standard Practice for Operating Salt Spray (Fog) Apparatus"
- E. ASTM A240/A240M-15a "Standard Specification for Chromium and Chromium-nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications"
- F. ASTM B584-22 "Standard Specification for Copper Alloy Sand Coatings for General Applications"
- G. ASTM E303-22 "Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester"

1.4 ACTION SUBMITTALS

A. Product Data:

1. Deck roof drains.
2. Trench drains.
3. Cast metal trench drain grates.

B. Shop Drawings: Indicate layout, details of drains and drain components, drain attachments, type and size of grates, supports, anchorages, perimeter construction details, and tolerances.

C. Samples for Selection:

1. Trench Drain Grate: Submit two cast metal samples, 5 inches by 10 inches in size, for each bronze type (four samples total); illustrating pattern, finish, color, and texture.
 - a. Apply bronze stain in different concentration ratios and numbers of coats to 5-inch by 5-inch sections of the grates for comparison with existing bronze finishes on site and selection of the staining methods by the Engineer and GSD. Clearly label the ratios and coats for each section. Each of the following applications shall be applied to two areas, one for each bronze types (alloy).
 - 1) Application 1: Unstained
 - 2) Application 2: 1 coat at a 1:1 ratio (concentrate to distilled water)
 - 3) Application 3: 1 coat at a 3:1 ratio
 - 4) Application 4: 3 coats at a 3:1 ratio

1.5 COORDINATION

A. Coordinate Work of this Section with:

1. Section 04 03 50 – “Historic Unit Masonry”
2. Section 22 14 13 – “Facility Storm Drainage Piping”
3. Section 03 30 00 – “Cast-In-Place Concrete”

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Installer experienced in performing Work of this section who has specialized in installation of work similar to that required for this project.
- B. Provide drainage piping specialties are to bear label, stamp, or other markings of specified testing agency.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Ordering: Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.

- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.

1.8 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
- B. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.9 WARRANTY

- A. Manufacturer's Warranty:
 - 1. Warranty Period: 12 months commencing on Date of Substantial Completion or 24 months from date of purchase, whichever is sooner.

PART 2 - PRODUCTS

2.1 DECK ROOF DRAINS

- A. Isolation Deck Drain: Provide cast-in deck drain body, gasket, clamping collar with seepage holes and gasketed standpipe connection, and isolation gasket.
 - 1. Basis of Design:
 - a. Zurn P100 NH body
 - b. Zurn P624-CC-LH isolation clamping collar.
 - 2. Standard: ASME A112.6.4.
 - 3. Body Material: Cast iron.
 - 4. Overall Bode Dimension: Nominal 15-inch diameter
 - 5. Flange: Not required.
 - 6. Outlet: Bottom.
 - 7. Outlet Type: No-hub.
 - 8. Outlet Size: 4 inches nominal.
 - 9. Gaskets: Manufacturer's standard unless otherwise indicated.
 - 10. Hardware: Manufacturer's standard unless otherwise indicated.
- B. Standpipe: Fabricate standpipe to connect trench drain outlet to deck drain clamping collar.
 - 1. Material: PVC Pipe in accordance with Section 22 14 13 – "Facility Storm Drainage Piping."

2.2 TRENCH DRAINS

- A. Trench Drains: Sloped-invert, modular system of precast polymer concrete channel sections with stainless steel edge protection rails; fabricated with rounded bottoms, built-in invert slope of 0.5 percent, and with outlets in number, sizes, and locations indicated in the Drawings.
1. Basis of Design: ACO KlassikDrain KS100 trench drain system
 2. Standard: ASME A112.6.3.
 3. Top-Loading Classification: Light Duty, according to AASHTO M306, or greater.
 4. Polymer Concrete Material Properties:
 - a. Made from polyester resin reinforced with mineral aggregates and fillers.
 - b. Minimum compressive strength: 14,000 psi
 - c. Minimum flexural strength: 4,000 psi
 - d. Minimum tensile strength: 1,500 psi
 - e. Maximum water absorption: 0.07%
 - f. ASTM B117 salt spray test compliant: yes.
 5. Stainless Steel: Type 304, ASTM A240/A240M.
 6. Nominal Trough Width: 4 inches.
 7. Nominal Grate Width: 5 inches.
 8. Invert Depths: As indicated in the Drawings.
 9. Outlet: Bottom.
 10. Outlet Type: Inside caulk.
 11. Fabricate sections so grates fit into channel recesses without rocking or rattling.
- B. Decorative Cast Metal Trench Drain Grates:
1. Width: 5 inch nominal, compatible with selected trench drain sections.
 2. Grate Material: Cast bronze, ASTM B584; or silicone bronze alloy C87500; to be selected by Engineer and GSD match other existing historic bronze finishes.
 3. Top-Loading Classification: Light Duty, according to AASHTO M306, or greater.
 4. Basis of Design Pattern: Interlaken Heel-Proof by Iron Age Designs.
 5. Finish: Raw
 6. Minimum Free Drain Area: 15%
 7. Minimum Flow Rate: 1.75 GPM per lineal foot.
 8. Maximum Opening Size: 1/4 inch.
 9. Minimum Slip Resistance (Pendulum Test Value) of 5.5 or better, per ASTM E303.
 10. Grates shall be stained in accordance with Section 05 03 72 "Historic Decorative Metal Railing Repair" using the approved stain application.
- C. Supports, Anchors, and Setting Devices: Manufacturer's standard unless otherwise indicated.
- D. Channel-Section Joining and Fastening Materials: As recommended by system manufacturer.

PART 3 - EXECUTION

3.1 DECK DRAINS INSTALLATION

- A. Install deck drains in accordance with manufacturer's written installation instructions at low points of platform gutter.
 - 1. Install flashing collar of roof drain to maintain integrity of waterproof membranes where penetrated.
- B. Install filter fabric over weep holes to prevent concrete ingress and clogging of the weep holes.

3.2 TRENCH DRAIN INSTALLATION

- A. Preparation:
 - 1. Verify reinforcement for concrete fill is placed and supported properly and will not interfere with trench drain installation.
- B. Assemble channel drainage system components in accordance with manufacturer's written instructions.
- C. Install trench drain channels at locations shown in the Drawings.
 - 1. Temporarily support and secure channels in place using support boards, spacers, threaded rods, and cross bars.
 - 2. Position channels into platform gutter and adjust vertical and lateral alignments to ensure channels are straight, level, and at the proper elevation.
 - 3. Begin channel installation at the stair centerline and progress outward toward the ends.
 - 4. Nail or otherwise anchor support boards to ensure channels are held securely during concrete pour.
- D. Prior to installing end channels, attach outlet pipe coupler to bottom of ending channel sections.
- E. Field fabricate standpipe with height and lateral offset required to connect trench drain outlet with the deck drain.
- F. Install isolation gaskets and standpipes into clamp collars of deck drains. Position end channels and attach outlet to standpipe. Verify fit of standpipe in end channels and decks drain prior to securing end channels in place.
- G. Install end caps into end of end channels.
- H. Fabricate temporary covers from 3/4" plywood to fit snugly into trench drain openings and install into the grate rebates of the channels to prevent channel walls and joints from distorting from the weight of the concrete. Leave temporary covers in place until time to install grates.
- I. Place concrete around the base of the channels in two lifts.

1. The first concrete lift should extend to approximately 3 inches below the final concrete top elevation shown in the drawings.
 2. The height of the concrete should be kept the same on both sides of the channels to prevent lateral displacement of the channels.
 3. The concrete should be consolidated around the channels using a wand-type concrete vibrator.
 4. After the first lift had set, place the second lift of concrete to bring the top of the concrete to the final height shown in the drawings.
- J. Install the adjacent masonry pavers and stair treads as indicated in Section 04 03 50 "Historic Unit Masonry."
1. The continuous head joints between the trench drain and the adjacent stone pavers and treads shall be filled and pointed full depth and profiled to slope towards the trench drain.

3.3 TRENCH DRAIN GRATE INSTALLATION

- A. Do not install grates until stone installation and repairs have been completed, and authorization has been given by Engineer and GSD.
- B. Remove and discard temporary covers from trench drains, remove soil and other material from trench drains and drain assemblies.
- C. Place gratings securely in prepared openings, with no warping or slippage.
- D. Secure gratings in accordance with trench drain manufacturer's written instructions to prevent movement and allow for maintenance removal.

3.4 CONNECTIONS

- A. Comply with requirements for piping specified in Section 22 14 13 "Facility Storm Drainage Piping." Drawings indicate general arrangement of piping, fittings, and specialties.

3.5 TOLERANCES

- A. Trench Drains.
 1. Maximum Lateral Variation from Strain Line: $\frac{1}{8}$ inch in 10 feet.
 2. Maximum Vertical Variation at Invert from Adjacent Sections: 1/16 inch
- B. Gratings.
 1. Maximum Space Between Adjacent Sections: 1/4-inch.
 2. Maximum Variation from Top Surface Plane of Adjacent Sections: 1/16-inch.

3.6 CLEANING

- A. Clean piping specialties during installation and remove dirt and debris as work progresses.

3.7 PROTECTION

- A. Protect piping specialties during remainder of construction period to avoid clogging with dirt or debris and to prevent damage from traffic and construction work.
- B. Protect completed gratings until time of Substantial Completion.

END OF SECTION 22 14 23

SECTION 31 20 00

EXCAVATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- 1.2 Drawings, General Provisions of the Contract, including General Conditions of the Contract for Construction (AIA 201), State of West Virginia Supplementary Conditions to the Standard Form of Agreement Between Owner and Contractor (AIA A201-2017), all other contract conditions, and Division 01 Specification Sections apply to this Section.

1.3 SUMMARY

A. Section Includes:

1. Excavating under the existing stair structure in-between existing structural members to remain.

B. Related Requirements:

1. Section 03 10 00 – “Concrete Forming and Accessories”

1.4 PREINSTALLATION MEETING

A. Preinstallation Conference: Conduct preinstallation conference on excavation at Project site.

1. Attendees shall include:

- a. Representative for the GSD.
- b. Engineer’s Project Manager.
- c. Contractor’s Project Manager.
- d. Contractor’s Superintendent.
- e. Foreman for the excavation subcontractor.

2. Conference Agenda: Review methods and procedures related to excavation, including, but not limited to, the following:

- a. Personnel and equipment needed to make progress and avoid delays.
- b. Coordination of Work with utility locator service.
- c. Coordination of Work and equipment movement with the locations of tree- and plant-protection zones.
- d. Means and methods to undertake excavation so as to not damage existing structural members to remain.
- e. Means and contractor’s methods to protect site from soiling and damage.

- f. Means and contractor's methods for dewatering beneath the stairs.
- g. Field quality control.

1.5 ACTION SUBMITTALS

A. Excavation and haul plan that outlines the means and methods to include:

- 1. Proposed equipment to be used to excavate between the structural members of the stair to depths indicated.
- 2. Detail sheet and description of temporary erosion- and sedimentation-control measures.
- 3. Detail sheet and description of protection plan for stair structural members.
- 4. Detail sheet and description of protection plan for underground utilities.
- 5. Equipment schedule for soil removal and truck hauling.
- 6. Proposed dewatering equipment and techniques for excavation area under stairs and any adjacent areas from soil excavation to truck pick-up and removal location.
- 7. Excavation protective system plan, developed by the contractor's designated competent person.
- 8. Detailed description of water management plan for on-site subsurface, surface, and storm water encountered during and upon completion of soil excavation.
- 9. Proposed hardscape protection measures to prevent damage during excavation operations.

B. Daily reports to include:

- 1. Photos of excavation and dewatering equipment and use.
- 2. Changes to excavation and hauling schedule due to unforeseen circumstances.
- 3. Any damages to existing stair structural supports incurred during site work and excavation.
- 4. Any damages to structures adjacent to project site incurred during site work and excavation, to include structural and water damage.

1.6 INFORMATIONAL SUBMITTALS

A. Material Certificates: For each of the following, signed by manufacturers:

- 1. Vapor retarders.

B. Samples: For vapor retarder.

C. Pre-excavation Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by earth-moving operations. Submit before excavation begins.

1.7 SITE PROTECTION

A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust into the Capitol or adjacent grounds and walkways.

- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- E. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas. All vehicles, equipment and conveyance systems shall be limited to hardscaped areas to prevent damage to adjacent grounds.
- F. Utility Locator Service: Notify "WV Miss Utility" for area where Project is located before beginning earth-moving operations.
- G. Private Utility Locator Service: Engage a private utility locator service to identify and mark utilities within and adjacent to the excavation areas.

PART 2 - PRODUCTS

2.1 VAPOR RETARDERS

- A. Sheet Vapor Retarder, Class A: ASTM E1745, Class A; not less than 10 mils thick. Include manufacturer's recommended adhesive or pressure-sensitive tape.

PART 3 - EXECUTION

3.1 PREPARATION AND EXCAVATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, damage, lateral movement, undermining, washout, and other hazards created by excavation operations.
 - 1. Protect stair structural members from damage. All existing structural members will remain in place for entire duration of excavation. Structural framing plan is provided in the Drawings to convey space limitations and limits of excavation.
 - 2. All trucks, equipment and conveyance equipment shall be limited to hardscaped areas of the North Plaza.
- B. Protect and maintain erosion and sedimentation controls during earth-moving operations.
- C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.
- D. OSHA standards require excavations 5 feet deep or greater in soil (not stable rock) to have a protective system in place prior to and during excavation activities. The contractor shall have a

designated competent person develop an excavation protective system plan and submit the plan as a submittal prior to excavation activities.

3.2 DEWATERING

- A. Based on the condition of the soil and grounds adjacent to the stairs, it is anticipated that excessive site water may be present and dewatering may be required in order to excavate to the required depths.
- B. Provide dewatering system of sufficient scope, size, and capacity to control hydrostatic pressures and to lower, control, remove, and dispose of ground water and permit excavation and construction to proceed on dry, stable subgrades.
- C. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site, North Plaza and surrounding grounds.
- D. Protect subgrades and existing footings and foundations from softening, undermining, washout, and damage by rain or water accumulation.
 - 1. Existing soil beneath stairs has been protected from surface water and no foundation drains or means to evacuate surface and subsurface water are not present. Temporary protection measures shall be installed to limit impacts of weather on stability of soil and conditions beneath the stairs during excavation operations.
 - 2. Reroute surface water runoff away from excavated areas to areas designated by the contractor's water management plan. Do not allow water to accumulate in excavations, around project site, or around protection zones.
 - 3. Install temporary piping and catch basins as required to capture water and properly dispose off of Capitol grounds.
- E. Dispose of water removed by dewatering in a manner that avoids endangering public health, property, and portions of work under construction or completed. Dispose of water and sediment in a manner that avoids inconvenience to others.

3.3 EXCAVATION, GENERAL

- A. Do not use explosives or non-explosive expansion grout.
- B. Do not use equipment that would induce vibration or stress into existing structure.
- C. Existing structures to stay in place during excavation (i.e. existing utilities and the stair support structures) shall be identified on site by the contractor prior to earthwork and documented/photographed upon excavation. Any damages incurred during excavation shall be reported to the site supervisor immediately, reported in the daily excavation report, and submitted as a submittal within 24 hours of the incident. All repair of damage to existing utilities due to the contractor's intervention and the resulting losses shall be at the contractor's expense.
- D. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil

materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

- E. Excavated soils shall not be stored on site. Excavation trucks shall carry all soils excavated on site to an off-site dump. During transport from excavation site to off-site dump, soils should be covered to prevent water penetration and/or windblown dust.
- F. The contractor shall ensure the stability and safety of excavations and shall take all measures necessary to ensure that no collapse or subsidence occurs. The excavation protective system plan shall be followed throughout the duration of excavation and excavation activities.

3.4 COMPACTION OF SOIL

- A. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D698:
 - 1. Under steps, scarify and recompact top 12 inches of existing subgrade and each layer of backfill or fill soil material at 95 percent.
 - 2. Under walkways, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at 92 percent.

3.5 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 - 1. Provide a smooth transition between adjacent existing grades and new grades.
 - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Grading inside Stair Structure: Finish subgrade to a tolerance of 1/2 inch when tested with a 10-foot straightedge.

3.6 INSTALLATION OF VAPOR RETARDER

- A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder in accordance with ASTM E1643 and manufacturer's written instructions.
 - 1. Place vapor retarder over excavated fill beneath stair.
 - 2. Lap joints 6 inches and seal with manufacturer's recommended tape.
 - 3. Turn vapor barrier up wall a minimum of 8 inches and seal to waterproofing membrane using adhesive compatible with both vapor retarder and waterproofing membrane.
 - 4. Terminate and seal entire perimeter to foundation walls.
 - 5. Seal penetrations in accordance with vapor retarder manufacturer's instructions.
 - 6. Protect vapor retarder during placement of reinforcement and concrete.
 - a. Repair damaged areas by patching with vapor retarder material, overlapping damages area by 6 inches on all sides, and sealing to vapor retarder.

3.7 ARCHEOLOGICAL ARTIFACTS

- A. Historic artifacts are likely to exist in the fill material used beneath the stairs. Care should be taken during excavation procedures so as to not damage any artifacts that may exist.
- B. Coordination will be required with the West Virginia Division of Culture and History (WVDCH) to provide documentation of existing conditions that are uncovered during the execution of the Work as well as provide records of the Work to serve as an archive to the building.
- C. Historic items, relics, and similar objects of interest or value to the WVDCH may be encountered or uncovered during the Work. Regardless of whether they were previously documented, such items remain the property of the GSD.
- D. Notify Engineer and GSD immediately upon uncovering a potentially historic item. Do not remove, disrupt, or alter the condition and surroundings of the item unless directed to do so by the Engineer and GSD.
 - 1. If directed to remove the item, carefully uncover and salvage each item or object and protect it from damage, then promptly deliver it to GSD where directed.
 - 2. Coordinate with the West Virginia Division of Culture and History and the State Historic Preservation Office for special procedures for dismantling and salvaging items uncovered during the execution of the Work.
- E. Items removed during construction that are not intended to be reinstalled, but have historical significance to the Capitol Building, shall remain the property of the Capitol and the GSD.

3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off GSD's property.

END OF SECTION 31 20 00

Project Manual

for

The West Virginia State Capitol North Stair Repair Project – Phase II

Procurement Folder: GSD1149150

Volume 2: Appendices

Prepared for:

West Virginia Department of Administration

General Services Division

218 California Avenue

Charleston, WV 25305

Prepared by:



WDP & Associates Consulting Engineers, Inc.

33 Summers Hospital Road

Hinton, WV 25951

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December 22, 2022

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Appendix A: Limestone Test Data

Appendix A includes results for laboratory tests conducted on limestone tread samples in accordance with ASTM C1721 “Standard Guide for Petrographic Examination of Dimension Stone”. The purpose for this testing was to describe and classify the characteristics of the existing limestone for the purpose of identifying and evaluating potential sources for fabricating replacement limestone units and new limestone pavers for the platform.



STONE LABORATORY TEST REPORT

Report No.: 22-0077.01-R0

Test Date(s): 10/25/22 – 11/04/22

Report Date: 11/20/22

Retention Date: 11/04/26

Prepared for: Patrick Dillon
WDP & Associates
335 Greenbrier Drive, Suite 205
Charlottesville, VA 22901

Product: Natural Limestone Product (Indiana) – West Virginia State Capital North Stair

Scope: The Natural Institute (NSI) was contracted by WDP & Associates to perform physical properties evaluations for one natural limestone product (Indiana), having been sampled from the West Virginia State Capital (North Stair Treads and Pavers). The scope of testing included Absorption, Density, Compressive Strength, Modulus of Rupture, Flexural Strength, and Abrasion Resistance. All testing was performed at the NSI laboratory located in Oberlin, Ohio.

Methods: The products were evaluated in accordance with the following test method(s):

ASTM C568/C568-2015, *Standard Specification for Limestone Dimension Stone*

ASTM C97/C97M-2018, *Standard Test Method for Absorption and Bulk Specific Gravity of Dimension Stone*

ASTM C170/C170M-2017, *Standard Test Method for Compressive Strength of Dimension Stone*

ASTM C99/C99M-18, *Standard Test Method for Modulus of Rupture of Dimension Stone*

ASTM C880/C880M-2018, *Standard Test Method for Flexural Strength of Dimension Stone*

ASTM C1353/C1353M-20, *Standard Test Method for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic Using a Rotary Platform Abraser*

Test Materials: Test materials were provided by WDP & Associates and were received in good condition for testing. Two specimens were provided from each of three sampling areas (designated: 43Q, 56FE, 91Q) for each test method and evaluation condition. Specimens were tested as received other than preconditioning as required by the applicable test method(s) prior to testing. Representative test materials shall be retained by the NSI for a period of four years.

Test Witness Record

Name	Company
R. Lawson	NSI
Mike Loflin	NSI
Scott D. Scallorn	NSI

Test Procedure(s): Unless otherwise stated, all specimen conditioning and testing was conducted in standard laboratory conditions. Test photos are located on pages 13-16 of this report. Equipment calibration certificates are available upon request.

ASTM C97 - Absorption and Density Evaluation

The absorption and density evaluations were conducted in accordance with the procedures detailed in ASTM C97. The specimens were oven-dried at 60°C to a stable mass condition (minimum 48 hours), reacclimated to ambient lab temperature and weighed on an Ohaus digital balance (SN: B614316489) for determination of dry condition mass. They were then immersed in filtered water for 48 hours prior to individual removal, surface drying with a damp cloth and determination of wet condition mass. The specimens were then suspended in the water within a wire cage and weighed for determination of immersed condition mass. Absorption (%) and bulk specific gravity were calculated for each specimen as per the equations in ASTM C97, Section 9. Test results were averaged for each series and evaluated against the performance criteria presented in ASTM C568, Table 1.

ASTM C1353 – Abrasion Resistance Evaluation

The abrasion resistance evaluation was conducted in accordance with the procedures detailed in ASTM C1353. The specimens were oven-dried at 60°C for a minimum of 48 hours and cooled prior to determination of pre-abrasion mass on an Ohaus digital balance (SN: B614316489). The specimens were then evaluated on a Taber Industries rotary platform abraser (SN: 20161679) employing H-22 Calibrade abrasive wheels with 1,000 grams of downward force applied to each for a total of 1000 wear cycles. Upon completion of cycling, post-exposure mass was determined for each specimen. Employing the bulk specific gravity results obtained from ASTM C97 evaluation, Index of Abrasion was calculated for each specimen as per the equation in ASTM C1353, Section 9.1. Test results were averaged for the series and evaluated against the performance criteria presented in ASTM C568, Table 1.

ASTM C170 – Compressive Strength Evaluation

The compressive strength evaluation was conducted on a Test Mark compression tester (SN: 160618) in accordance with the procedures detailed in ASTM C170. Dry condition specimens were oven-dried at 60°C for a minimum of 48 hours and cooled to ambient prior to testing. Wet condition specimens were immersed in water for 48 hours prior to individual removal and testing. Compressive strength was calculated for each specimen as per the equation in ASTM C170, Section 10.1. Test results were averaged for each series and evaluated against the performance criteria presented in ASTM C568, Table 1.

ASTM C99 – Modulus of Rupture Evaluation

The Modulus of Rupture (MoR) evaluation was conducted on a ATS Universal Test Machine (SN: 16-14900-1) employing a 12.5-kip load cell (SN: 561414A) in accordance with the procedures detailed in ASTM C99. Specimens were tested in both oven-dry and wet conditions. Dry condition specimens were oven-dried at 60°C for a minimum of 48 hours and cooled to ambient prior to testing. Wet condition specimens were immersed in water for 48 hours prior to individual removal and testing. Specimens were supported at a test span of 7.0 in. and loaded at midspan until failure. Flexural strength was calculated for each specimen as per the equation in ASTM C99, Section 11.1. Test results were averaged for each series and evaluated against the performance criteria presented in ASTM C568, Table 1.

ASTM C880 – Flexural Strength Evaluation

The Flexural strength evaluation was conducted on a ATS Universal Test Machine (SN: 16-14900-1) employing a 1-kip load cell (SN: 1203802A) in accordance with the procedures detailed in ASTM C880 for both parallel and perpendicular rift loading conditions. Dry condition test specimens were oven-dried at 60°C for a minimum of 48 hours and cooled prior to testing. Wet condition specimens were immersed for a period of 48 hours prior to removal, surface drying and testing. Specimens were supported at a test span of 12.5 in. and loaded at quarter point (6.25 in. Loading span) until failure. Flexural strength was calculated for each specimen as per the equation in ASTM C880, Section 10.1, and averaged for each test series.

No performance criteria were specified for this test component, so results are reported as a design property only.

Specimen Details

Test Method	Quantity	Nominal Dimensions	Description
ASTM C97	6 Total (43Q: 2, 56FE: 2, 91Q: 2)	2.25 in. cubes	Light tan/grey tone fine grain natural limestone
ASTM C170	24 Total (43Q: 8, 56FE: 8, 91Q: 8)		
ASTM C99	24 Total (43Q: 8, 56FE: 8, 91Q: 8)	4.0 in. x 8.0 in. x 2.25 in.	
ASTM C880	424 Total (43Q: 8, 56FE: 8, 91Q: 8)	4.0 in. x 15.0 in. x 1.25 in. thickness	
ASTMC1353	3 Total (43Q: 1, 56FE: 1, 91Q: 1)	4.0 in. square x 0.375 in.	

Test Results**ASTM C97 – Absorption & Density**

Specimen No.	Measured Mass (g)			Absorption (%)	Bulk Specific Gravity	Density (lbs/ft ³)
	Oven-Dry	48-Hour Wetted	Immersed Suspended			
43Q - 1	455.06	469.63	278.39	3.20	2.38	148.6
43Q - 2	428.49	440.60	262.30	2.83	2.40	150.0
56FE - 1	451.18	465.42	273.24	3.16	2.35	146.6
56FE - 2	450.53	463.97	272.94	2.98	2.36	147.2
91Q - 1	428.60	440.98	257.69	2.89	2.34	146.0
91Q - 2	426.88	439.28	256.63	2.90	2.34	145.9
Series Average				2.99	2.36	147.4
Standard Deviation				0.15	0.03	1.62
Coefficient of Variation (%)				5.10	1.11	1.10

ASTM C1353 – Abrasion Resistance Evaluation

Specimen No.	Bulk Specific Gravity	Mass (g)			Wear Cycles Completed	Index of Abrasion
		Initial	End	Loss		
43Q-1	2.39	248.36	239.56	8.80	1,000	10.0
56FE-1	2.35	310.14	300.59	9.55		9.1
91Q-1	2.34	182.22	169.80	12.42		6.9
Series Average						8.7
Standard Deviation						1.6
Coefficient of Variation						18.0

ASTM C170 – Compressive Strength – Wet Condition, Perpendicular Loading

Specimen No.	Test Condition	Specimen Dimensions (in)		Loading Area (in²)	Failure Load (lb _f)	Compressive Strength (psi)
		Length	Width			
43Q-PP-W-1	Perpendicular to stone rift orientation	2.30	2.27	5.22	29,500	5,650
43Q-PP-W-1		2.28	2.23	5.08	31,500	6,200
56FE-PP-W-1		2.30	2.27	5.22	20,300	3,890
56FE-PP-W-2	Wet Condition	2.27	2.26	5.13	20,200	3,940
91Q-PP-W-1		2.27	2.22	5.04	20,000	3,970
91Q-PP-W-2		2.25	2.26	5.09	28,900	5,680
Series Average						4,890
Standard Deviation						1,065
Coefficient of Variation (%)						21.8

ASTM C170 – Compressive Strength – Wet Condition, Parallel Loading

Specimen No.	Test Condition	Specimen Dimensions (in)		Loading Area (in²)	Failure Load (lb _f)	Compressive Strength (psi)
		Length	Width			
43Q-PP-D-1	Perpendicular to stone rift orientation Dry Condition	2.30	2.27	5.22	37,600	7,200
43Q-PP-D-1		2.28	2.26	5.15	27,200	5,280
56FE-PP-D-1		2.29	2.27	5.20	28,000	5,380
56FE-PP-D-2		2.24	2.30	5.15	31,200	6,060
91Q-PP-D-1		2.23	2.24	5.00	24,100	4,820
91Q-PP-D-2		2.26	2.23	5.04	26,500	5,260
Series Average						5,670
Standard Deviation						851
Coefficient of Variation (%)						15.0

ASTM C170 – Compressive Strength – Wet Condition, Perpendicular Loading

Specimen No.	Test Condition	Specimen Dimensions (in)		Loading Area (in²)	Failure Load (lbf)	Compressive Strength (psi)
		Length	Width			
43Q-LL-W-1	Parallel to stone rift orientation	2.31	2.27	5.24	25,100	4,790
43Q-LL-W-1		2.20	2.24	4.93	22,600	4,580
56FE-LL-W-1		3.21	2.31	7.42	17,300	2,330
56FE-LL-W-2	Wet Condition	2.32	2.38	5.52	34,800	6,300
91Q-LL-W-1		2.34	2.39	5.59	23,300	4,170
91Q-LL-W-2		2.24	2.27	5.08	23,800	4,690
Series Average						4,480
Standard Deviation						1,279
Coefficient of Variation (%)						28.6

ASTM C170 – Compressive Strength – Dry Condition, Parallel Loading

Specimen No.	Test Condition	Specimen Dimensions (in)		Loading Area (in²)	Failure Load (lb _f)	Compressive Strength (psi)
		Length	Width			
43Q-LL-D-1	Parallel to stone rift orientation Dry Condition	2.27	2.33	5.29	31,600	5,970
43Q-LL-D-1		2.17	2.21	4.80	26,700	5,560
56FE-LL-D-1		2.29	2.33	5.34	38,400	7,190
56FE-LL-D-2		2.30	2.29	5.27	26,000	4,930
91Q-LL-D-1		2.32	2.27	5.27	17,800	3,380
91Q-LL-D-2		2.26	2.23	5.04	17,000	3,370
Series Average						5,070
Standard Deviation						1,504
Coefficient of Variation (%)						29.7

ASTM C99 – Modulus of Rupture – Wet Condition, Perpendicular Loading

Specimen Details		Support Span (in)	Specimen Dimensions (in)		Failure Load (lb _f)	Modulus of Rupture (psi)
No.	Test Condition		Width	Depth		
43Q-PP-W-1	Perpendicular to stone rift orientation	7.0	4.09	2.33	3,550	1,680
43Q-PP-W-1			4.01	2.40	2,959	1,350
56FE-PP-W-1			4.03	2.32	2,863	1,390
56FE-PP-W-2	Wet Condition		4.02	2.27	2,728	1,380
91Q-PP-W-1			3.91	2.17	2,848	1,620
91Q-PP-W-2			3.95	2.25	2,456	1,290
Series Average						1,450
Standard Deviation						159
Coefficient of Variation (%)						10.9

ASTM C99 – Modulus of Rupture – Dry Condition, Perpendicular Loading

Specimen No.	Test Conditions	Support Span (in)	Specimen Dimensions (in)		Failure Load (lb _f)	Flexural Strength (psi)
			Width	Depth		
43Q-PP-D-1	Perpendicular to stone rift orientation Dry Condition	7.0	4.13	2.30	2,824	1,360
43Q-PP-D-1			4.00	2.44	3,257	1,440
56FE-PP-D-1			4.02	2.23	2,878	1,510
56FE-PP-D-2			4.01	2.28	2,891	1,460
91Q-PP-D-1			3.96	2.28	2,493	1,270
91Q-PP-D-2			3.94	2.19	2,373	1,320
Series Average						1,390
Standard Deviation						92
Coefficient of Variation (%)						6.6

ASTM C99 – Modulus of Rupture – Wet Condition, Perpendicular Loading

Specimen Details		Support Span (in)	Specimen Dimensions (in)		Failure Load (lb _f)	Modulus of Rupture (psi)
No.	Test Condition		Width	Depth		
43Q-LL-W-1	Parallel to stone rift orientation Wet Condition	7.0	3.94	2.34	3,109	1,510
43Q-LL-W-1			4.02	2.25	2,418	1,250
56FE-LL-W-1			4.09	2.29	3,351	1,640
56FE-LL-W-2			4.09	2.27	2,407	1,200
91Q-LL-W-1			3.89	2.25	2,236	1,190
91Q-LL-W-2			3.86	2.16	2,542	1,480
Series Average						1,380
Standard Deviation						190
Coefficient of Variation (%)						13.8

ASTM C99 – Modulus of Rupture – Dry Condition, Perpendicular Loading

Specimen No.	Test Conditions	Support Span (in)	Specimen Dimensions (in)		Failure Load (lb _f)	Flexural Strength (psi)
			Width	Depth		
43Q-LL-D-1	Parallel to stone rift orientation Dry Condition	7.0	4.19	2.39	3,219	1,410
43Q-LL-D-1			4.04	2.31	3,025	1,470
56FE-LL-D-1			4.03	2.24	3,694	1,920
56FE-LL-D-2			3.95	2.20	3,239	1,780
91Q-LL-D-1			4.10	2.46	2,269	960
91Q-LL-D-2			3.93	2.25	2,348	1,240
Series Average						1,460
Standard Deviation						351
Coefficient of Variation (%)						24.0

ASTM C880 – Flexural Strength – Wet Condition, Perpendicular Loading

Specimen Details		Support Span (in)	Specimen Dimensions (in)		Failure Load (lbf)	Flexural Strength (psi)
No.	Test Condition		Width	Depth		
43Q-PP-W-1	Perpendicular to stone rift orientation Wet Condition	12.5	3.93	1.23	880	1,390
43Q-PP-W-1			4.01	1.34	960	1,250
56FE-PP-W-1			4.03	1.35	960	1,230
56FE-PP-W-2			4.13	1.20	1,030	1,620
91Q-PP-W-1			3.97	1.20	550	900
91Q-PP-W-2			3.98	1.35	880	1,140
Series Average						1,260
Standard Deviation						241
Coefficient of Variation (%)						19.2

ASTM C880 – Flexural Strength – Dry Condition, Perpendicular Loading

Specimen No.	Test Conditions	Support Span (in)	Specimen Dimensions (in)		Failure Load (lb _f)	Flexural Strength (psi)
			Width	Depth		
43Q-PP-D-1	Perpendicular to stone rift orientation Dry Condition	12.5	4.15	1.41	1,290	1,470
43Q-PP-D-1			3.88	1.29	1,050	1,520
56FE-PP-D-1			4.26	1.36	1,260	1,500
56FE-PP-D-2			4.04	1.23	1,080	1,660
91Q-PP-D-1			4.10	1.36	780	960
91Q-PP-D-2			4.00	1.16	750	1,310
Series Average						1,400
Standard Deviation						244
Coefficient of Variation (%)						17.4

ASTM C880 – Flexural Strength – Wet Condition, Perpendicular Loading

Specimen Details		Support Span (in)	Specimen Dimensions (in)		Failure Load (lbf)	Flexural Strength (psi)
No.	Test Condition		Width	Depth		
43Q-LL-W-1	Parallel to stone rift orientation Wet Condition	12.5	3.99	1.28	870	1,250
43Q-LL-W-1			3.99	1.29	700	990
56FE-LL-W-1			4.04	1.34	1,090	1,410
56FE-LL-W-2			4.03	1.23	880	1,350
91Q-LL-W-1			4.10	1.29	770	1,060
91Q-LL-W-2			3.89	1.24	640	1,000
Series Average						1,180
Standard Deviation						184
Coefficient of Variation (%)						15.6

ASTM C880 – Flexural Strength – Dry Condition, Perpendicular Loading

Specimen No.	Test Conditions	Support Span (in)	Specimen Dimensions (in)		Failure Load (lb _f)	Flexural Strength (psi)
			Width	Depth		
43Q-LL-D-1	Parallel to stone rift orientation Dry Condition	12.5	4.07	1.44	1,230	1,370
43Q-LL-D-1			4.06	1.31	1,170	1,570
56FE-LL-D-1			4.16	1.83	1,190	800
56FE-LL-D-2			4.02	1.28	1,040	1,480
91Q-LL-D-1			3.94	1.28	890	1,290
91Q-LL-D-2			4.07	1.27	850	1,210
Series Average						1,290
Standard Deviation						271
Coefficient of Variation (%)						21.1

Conclusion: The West Virginia State Capital North Stair (Steps and Pavers) sampled limestone material test results were evaluated against the performance criteria presented in ASTM C568, Table 1.

Sampled Limestone Performance Evaluation

- The Indiana Limestone samples satisfied the ASTM C568 performance requirements for a Class III (High-Density) Limestone product for Absorption and Modulus of Rupture.
- The Indiana Limestone samples satisfied the ASTM C568 performance requirements for a Class II (Medium-Density) Limestone product for Density and Compressive Strength.
- The Indiana Limestone samples (56FE and 91Q) failed to satisfy the ASTM C568 performance criteria for Abrasion Resistance. The Indiana Limestone sample (43Q) satisfied the ASTM C568 performance criteria for Abrasion Resistance.
- ASTM C568 presents no performance criteria for flexural strength so results are reported as obtained.

Mean test results for the sampled Indiana limestone product, as evaluated against ASTM C568 performance criteria, are presented in the following table:

ASTM C568 Performance Evaluation Summary (Top Ledge)				
Physical Requirement	Test Series Detail		Result	
			Mean Value	Evaluation
<u>C97 Absorption (%)</u>: Class I (Low-Density): ≤12.0 Class II (Medium-Density): ≤7.5 Class III (High-Density): ≤3.0			2.99%	Class III (High Density) - Meets as Stated
<u>C97 Density (lbs/ft³)</u>: Class I (Low-Density): ≥110 Class II (Medium-Density): ≥135 Class III (High-Density): ≥160			147.4 lbs/ft³	Class II (Medium-Density) - Meets as Stated
<u>C99 Modulus of Rupture (psi)</u>: Class I (Low-Density): ≥400 Class II (Medium-Density): ≥500 Class III (High-Density): ≥1,000	Perpendicular	Wet	1,450	Class III (High Density) - Meets as Stated
		Dry	1,390	
	Parallel	Wet	1,380	
		Dry	1,460	
<u>C170 Compressive Strength (psi)</u>: Class I (Low-Density): ≥1,800 Class II (Medium-Density): ≥4,000 Class III (High-Density): ≥8,000	Perpendicular	Wet	4,890	Class II (Medium-Density) - Meets as Stated
		Dry	5,670	
	Parallel	Wet	4,480	
		Dry	5,070	
<u>ASTM C880 Flexural Strength (psi)</u>: Design Property (*To be Reported)	Perpendicular	Wet	1,260	Reported
		Dry	1,400	
	Parallel	Wet	1,180	
		Dry	1,290	
<u>ASTM C1353 Wear Index (H_A)</u>: ≥0.10			8.7	Fails to Meet as Stated (2 of 3)

It has been our pleasure to provide this product testing service for your project. Please do not hesitate to contact us if you have any questions or require additional information. Contact information is listed below.

Respectfully submitted,



Scott D. Scallorn, Testing Lab Manager

THE NATURAL STONE INSTITUTE

Office: (440) 250-9222

Mobile: (717) 515-1207

Email: scott@naturalstoneinstitute.org

Revision Log

No.	Date	Page(s)	Description
0	11/20/22	N/A	Initial report release

Document Control Number : NSI 00001 (07/07/22)

Photographs

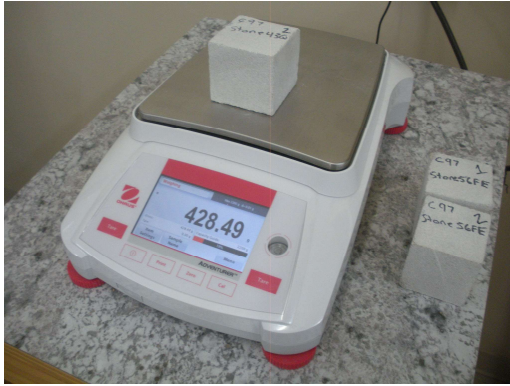


Photo No. 1

ASTM C97 – Test Apparatus (Dry Mass Determination Stage Depicted)

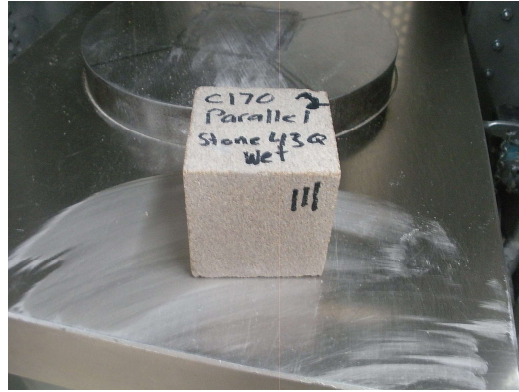


Photo No. 2

ASTM C170 – Representative Pretest Condition Specimen (Parallel to Rift Loading Specimen Depicted)



Photo No. 3

ASTM C170 – Representative Perpendicular to Rift Loading Specimen Failure Mode



Photo No. 4

ASTM C170 – Representative Parallel to Rift Loading Specimen Failure Mode

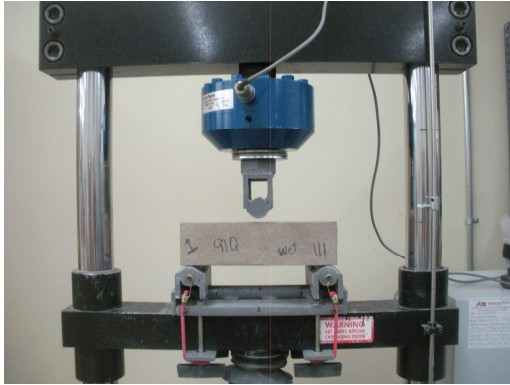


Photo No. 5
ASTM C99 – Test Setup



Photo No. 6
ASTM C99 – Specimen Loading Detail



Photo No. 7
ASTM C99 – Representative Perpendicular
to Rift Loading Specimen Failure Mode



Photo No. 8
ASTM C99 – Representative Parallel to Rift
Loading Specimen Failure Mode

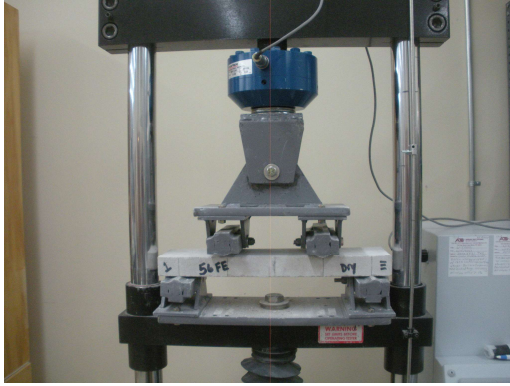


Photo No. 9
ASTM C880 – Test Setup



Photo No. 10
ASTM C880 – Specimen Loading Detail



Photo No. 11
ASTM C880 – Representative
Perpendicular to Rift Loading Specimen
Failure Mode



Photo No. 12
ASTM C880 – Representative Parallel to
Rift Loading Specimen Failure Mode



Photo No. 13
ASTM C1353 – Test Apparatus (Depicted
with Pre-Abrasion Test Specimen)

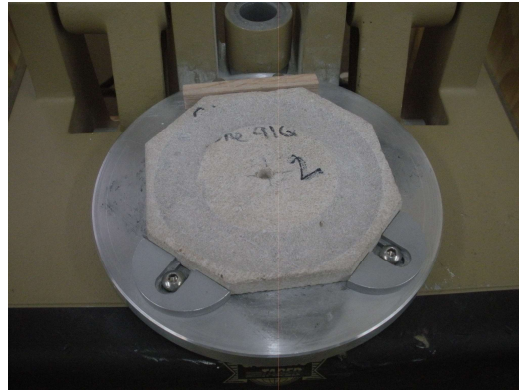


Photo No. 14
ASTM C1353 – Representative Post-
Abrasion Specimen Condition

Appendix B: Stone Survey Sheets

The stone survey sheets included within Appendix B were created during the Phase-1 project to document the damage present on each stone and to develop repair quantities for the current project. The Contractor shall update the stone survey sheets continually throughout the project to reflect actual repair quantities and shall submit the finalized updated survey sheets with the complete stone catalog as part of the project closeout procedure.

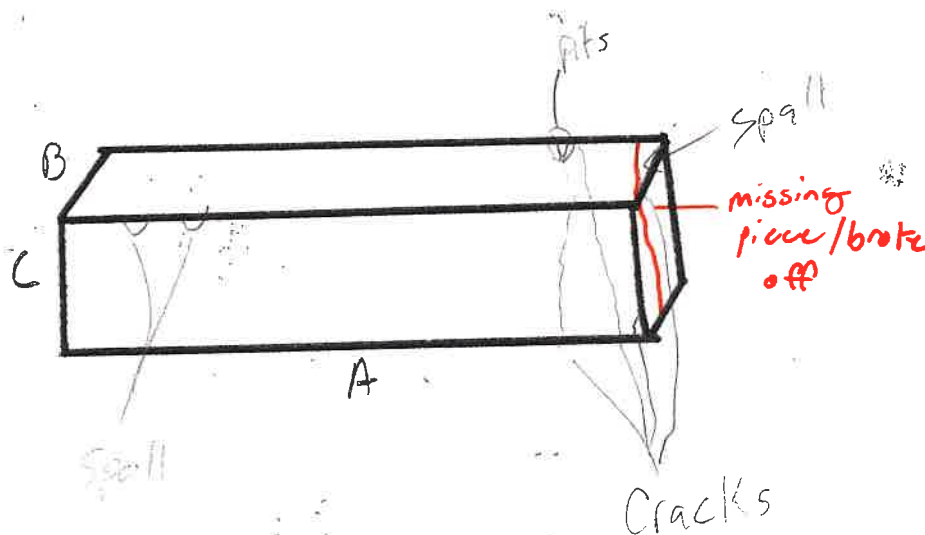
Stone to be Replaced

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D15/13

SKETCH



Stone ID No.

43 Q

Location	Length (in)	
Overall Dimensions		
A	78 7/8	
B	17 3/8	
C	5 3/8	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 spalls left side of nosing
Pits back joint of tread right side

3 Cracks right side

spall right joint of tread
small crack bottom corner of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair Replace

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

CVilla
(Print)

(Signed)

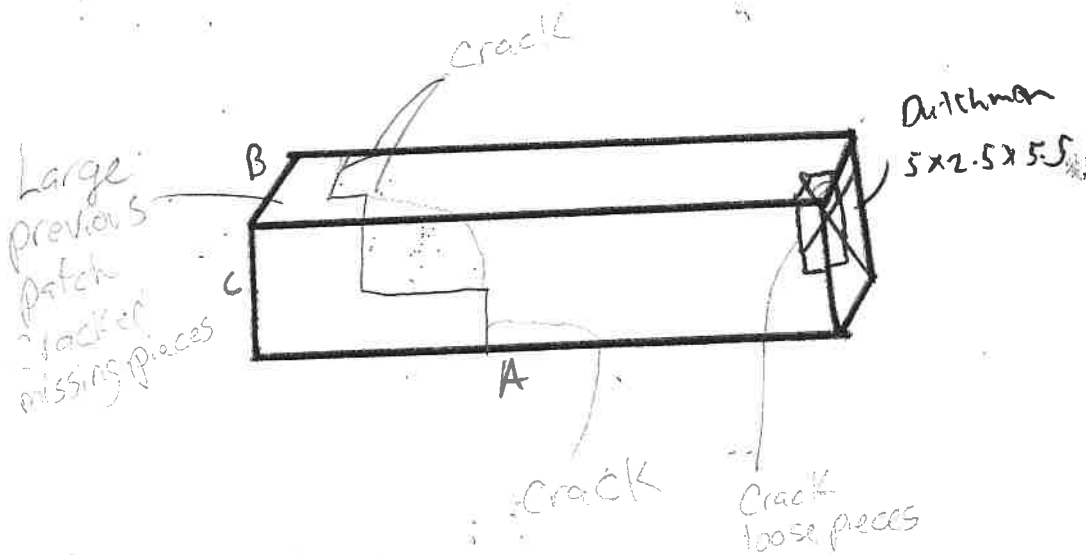
Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing _____

SKETCH



Stone ID No.

47 EE

Location	Length (in)
Overall Dimensions	
A	67 1/2
B	17 1/4
C	5 3/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large previous patch; Cracked up with missing pieces
 - Crack from front corner of patch across top and down to top corner of patch on riser
 - Crack from right side of patch to bed joint on left of riser
 - Front Right corner of bed cracked down face of riser; loose pieces

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Replace

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman

(Print)

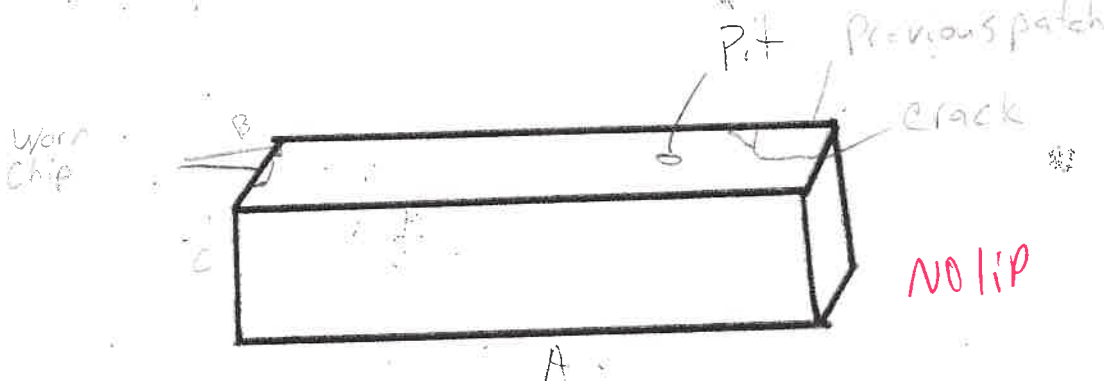
(Signed)

Date: 9/18/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/A/B

SKETCH



Stone ID No.
54PW

Location	Length (in)	
Overall Dimensions		
A	73	
B	17 3/8	
C	5 3/8	5 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall Weathering: Pitting on tread
Large pit on right of tread
Previous patch back right of tread is cracked out with small additional crack
Worn chips on left joint of tread.

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Replace → not original
likely cost equiv. as tests trying to do a repair.

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

P. Dillen
(Print)

(Signed)

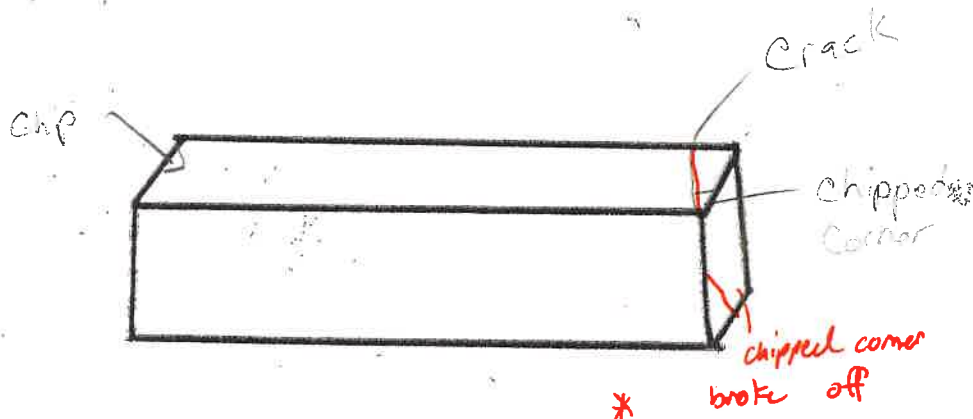
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C/V/8

SKETCH



Stone ID No.

50FE

Location	Length (in)	
Overall Dimensions		
A	66 1/2	
B	17 3/8	
C	5 1/2	7 1/4
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip left joint of tread

Large crack right side of tread from right front corner to back of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Replacement

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

P Diller

(Print)

(Signed)

Date: 9/9/22

Stone Survey Sheet

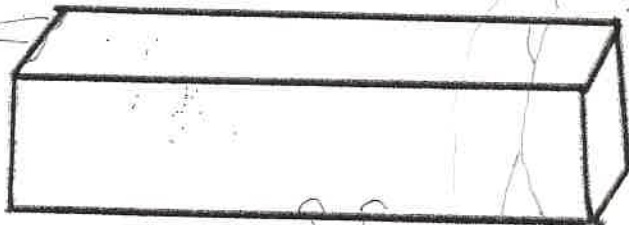
Location Drawing D4.01
Storage Drawing C/U/8

SKETCH

Stone ID No

57Q

Worn
Spalls



Worn
Spalls

Stone broke upon lifting of crack

Location	Length (in)	
Overall Dimensions		
A	78	3/4
B	17	3/4
C	5 1/2	75/8
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spalls left joint of tread
Worn Spalls right of center on bed joint of riser
2 Large Cracks right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Replacement

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

P Dillen

(Print)

(Signed)

Date: 9/8/22

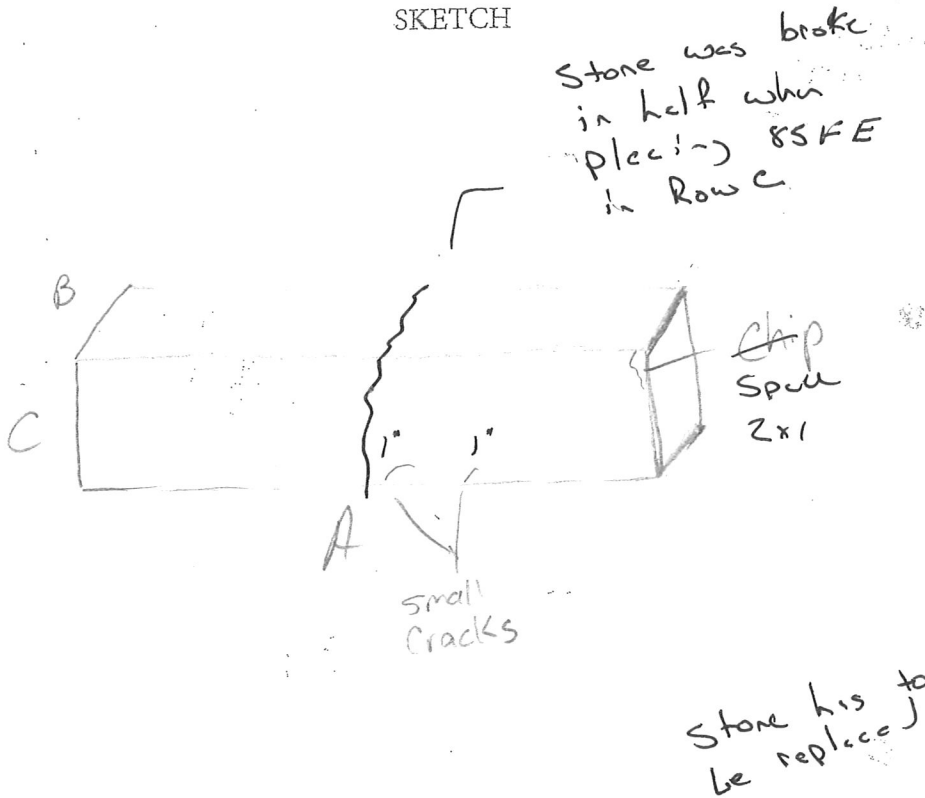
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C Row B Stone 1

Stone ID No.

87MW

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 $\frac{3}{8}$	
C	5 $\frac{1}{2}$	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 small cracks right of center bed joint of riser
Chip on top right corner of riser

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: crack 2"
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

R. Ryplur
(Print)

(Signed)

Date: 8-10-21

Stone Survey Sheet

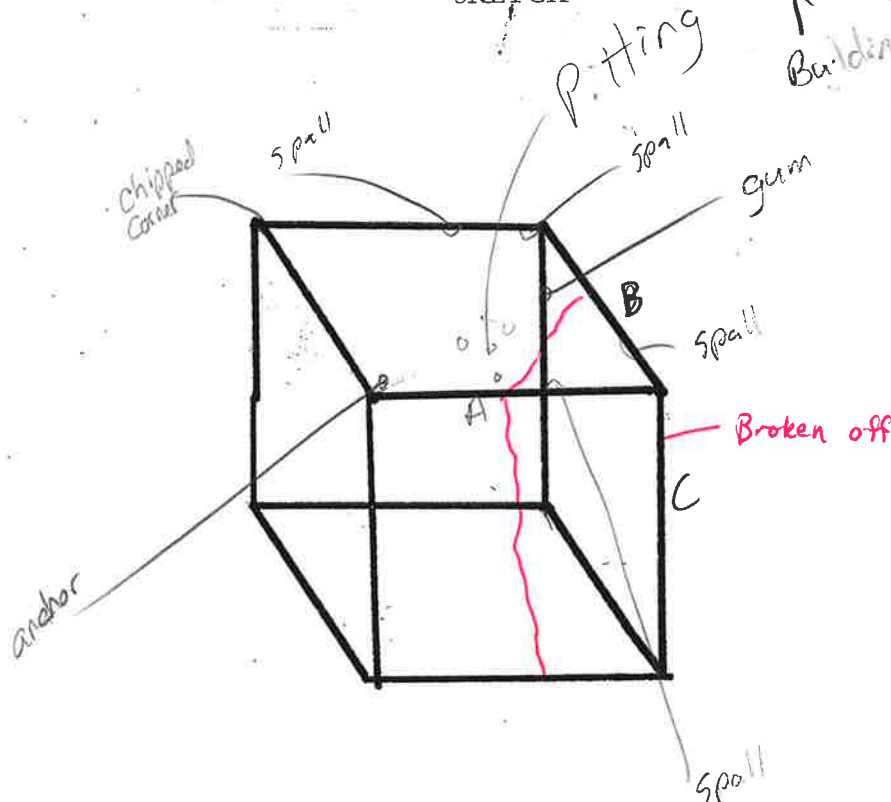
Location Drawing D4.02
Storage Drawing _____

Stone ID No.

91Q

SKETCH

↑ Building



Location	Length (in)	
Overall Dimensions:		
A	67	
B	70 1/2	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

chipped corner northeast
2 spalls north joint west side
anchor south east corner
Spall south joint west of center
Spall west joint
gum spot on tread

Heaving pitting along south of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Replace
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 9 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P. Dillon
(Print)

(Signed)

Date: 9/21/22

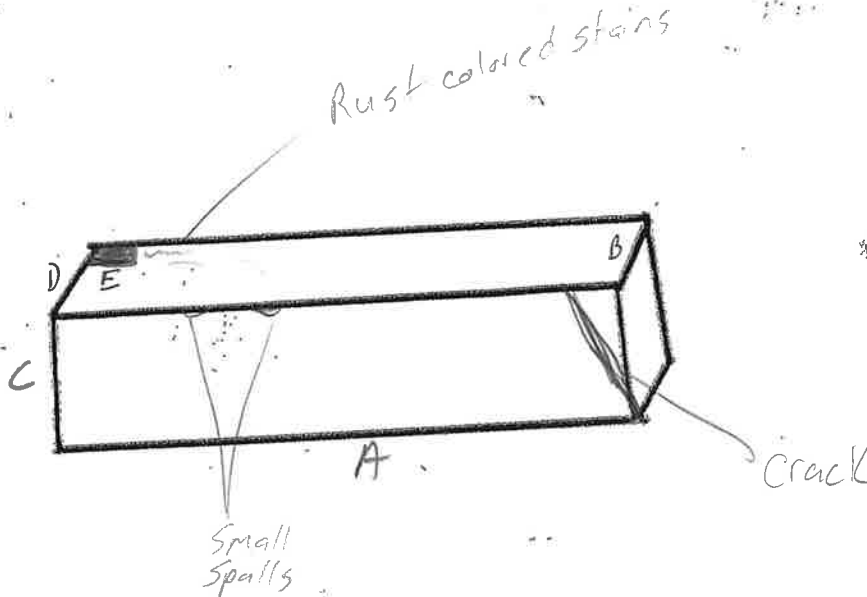
Granite Side Stair Treads

Rows 01 – 05

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
01BE

Location	Length (in)
Overall Dimensions	
A	8 3/4
B	16
C	5 1/4
Joint	
D	1 1/8
E	5 7/8
F	
G	
H	
I	
J	
K	
L	
M	
Minor Joint	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust Colored Stain on tread
Small spalls left side of nosing
Crack on riser from nosing to bottom right corner

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WEP/GSD Representative:

Chris Lehman
(Print)

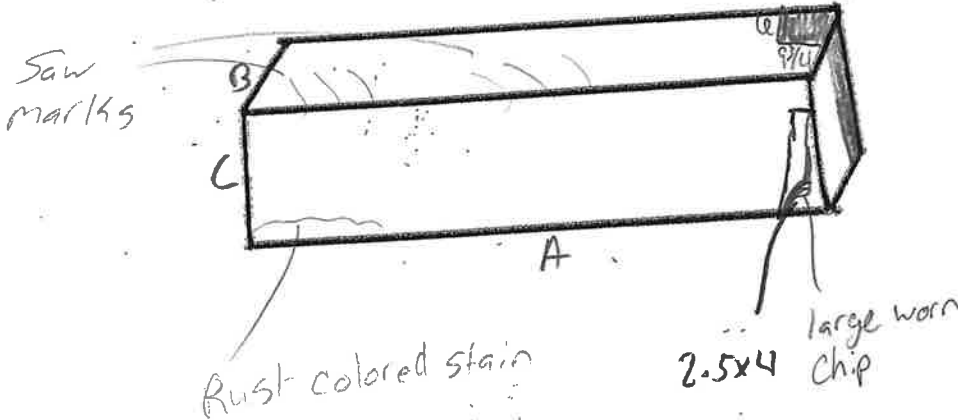
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.

01BW

Location	Length (in)
A	83 1/4
B	16
C	5 1/4
D	9 1/4
E	6
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw mark across tread

Rust colored stain on bottom left of riser face

large worn chip bottom right corner of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 10 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WEP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

Stone Survey Sheet

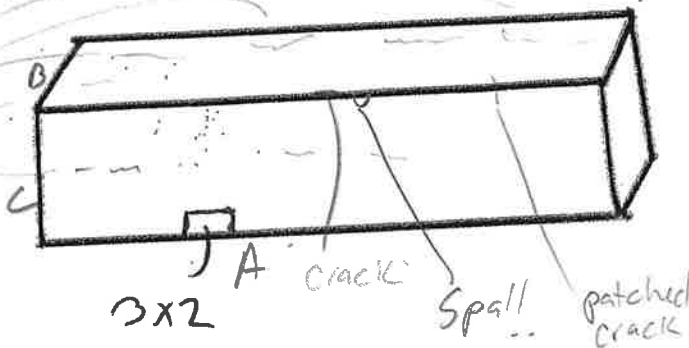
Location Drawing D405
Storage Drawing _____

SKETCH

Stone ID No.

01DE

Rust
Colored
Stain



Location	Length (in)
A	75 3/4
B	11
C	55 1/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored stain on tread + riser face
Crack on nosing left of center
Spall on nosing center
Patched crack on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 1.6 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WEP/GSD Representative:

Chris Lehman
(Print)

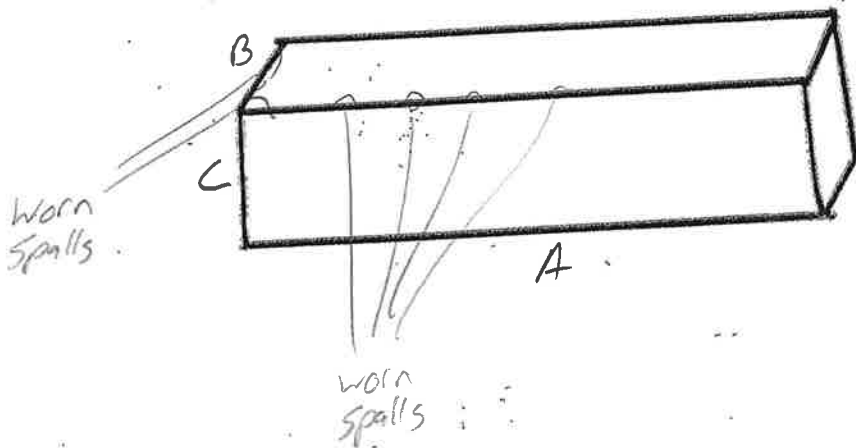
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
01DW

Location	Length (in)
A	75 3/4
B	16
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):
Worn spalls along left joint of tread
large worn chip/spall on front left corner of tread
Worn spalls along nosing

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Chris Lehman
(Print)

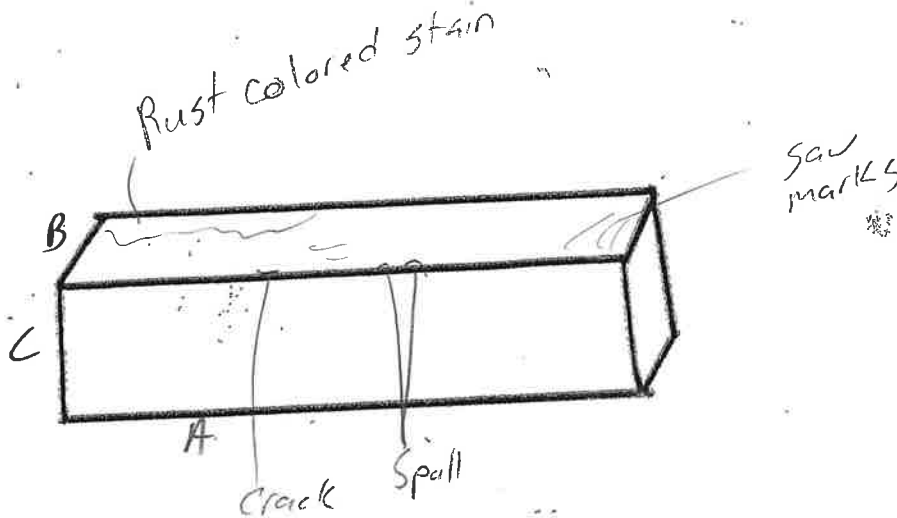
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.

OIFE

Location	Length (in)
A	78 1/2
B	16
C	5 5/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Rust colored stain on tread
Saw marks on right side of tread
Crack on nosing left of center
2 spalls on nosing right of center
Rough wear on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

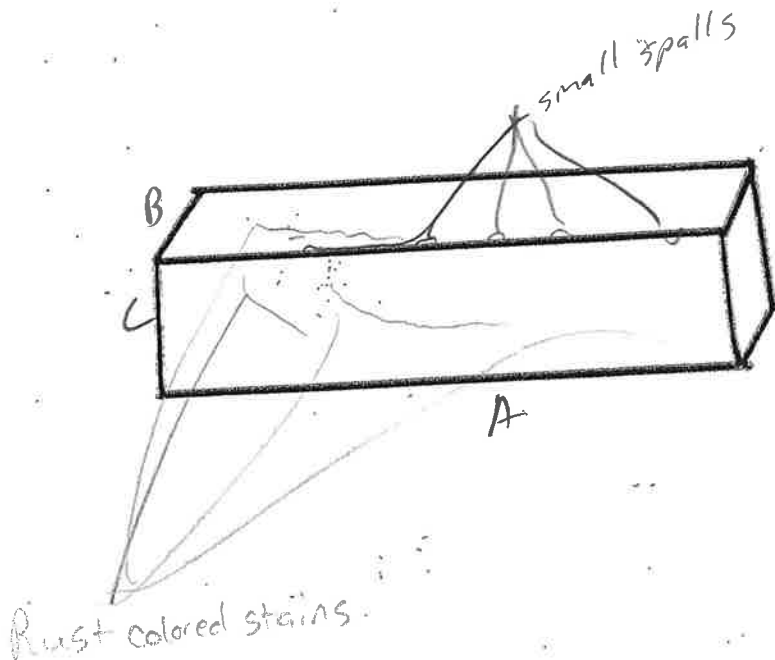
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.

01FW

Location	Length (in)
Overall Dimensions	
A	78 1/4
B	16
C	5 5/8
Face Dimensions	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Measurements	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Rust colored stains on tread + riser
- Small worn spalls along nosing
- Rough wear on nosing + along tread + riser left of center + right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Chris Johnson
(Print)

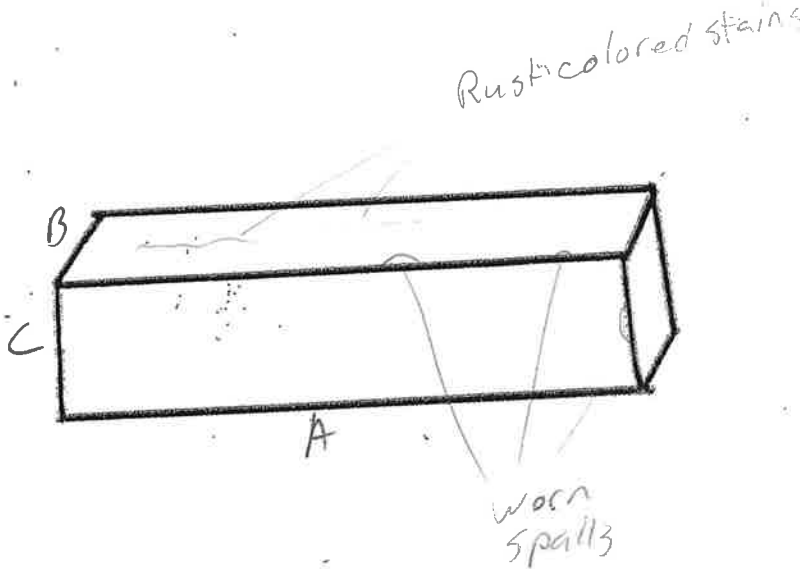
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
02AE

Location	Length (in)
Overall Dimensions	
A	40 5/8
B	16
C	5 1/2
Face	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Weathered	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Rust colored stains on trend
2 worn spalls on rising right side
Slight spall right hand joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WBP/GSD Representative:

Chris Lehman
(Print)

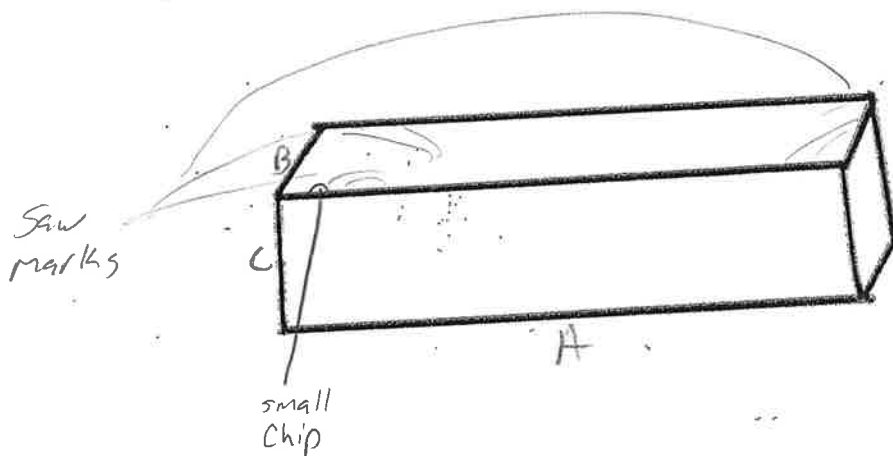
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.65
Storage Drawing _____

SKETCH



Stone ID No.
02AW

Location	Length (in)
A	40 1/2
B	16 1/4
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks on tread left + right sides
Small chip on nosing left side near corner

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

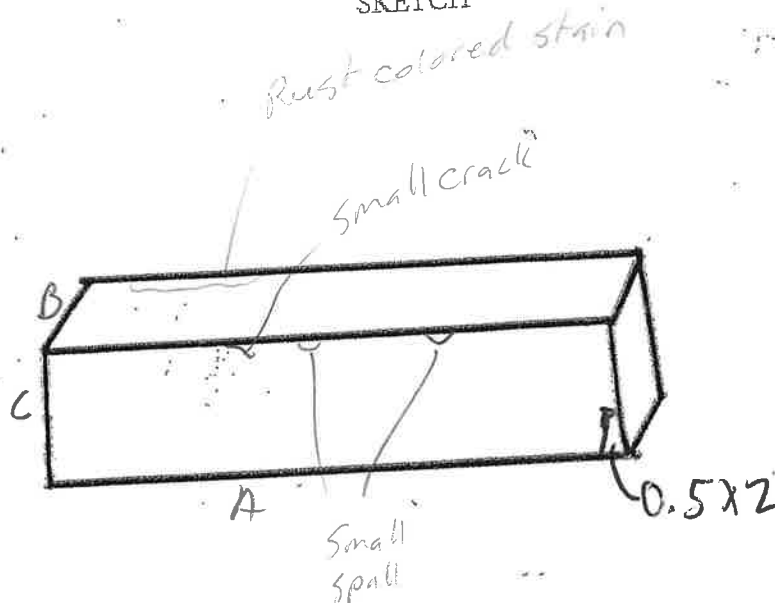
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

Stone ID No.
02CE

SKETCH



Location	Length (in)
A	75 3/8
B	16
C	5 7/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Orientation	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored stain on tread
Small crack on nosing left side
2 small worn spalls on nosing, left of center + right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? ☒ Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 1 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? ☒ Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WEP/GSD Representative:

Chris Gelman
(Print)

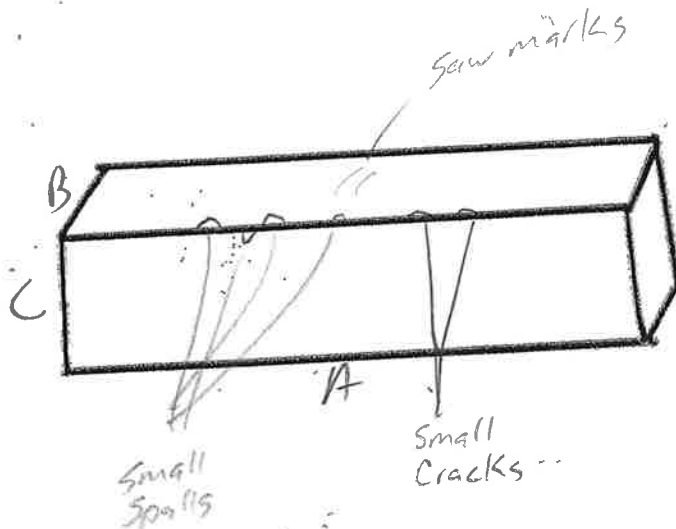
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
02CW

Location	Length (in)
Overall Dimensions	
A	75 3/4
B	16
C	5 1/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rough wearing tread + riser
Saw mark center of tread
Small spalls along nosing
2 small cracks on nosing right of center + right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WEP/GSD Representative:

Chris Lehman
(Print)

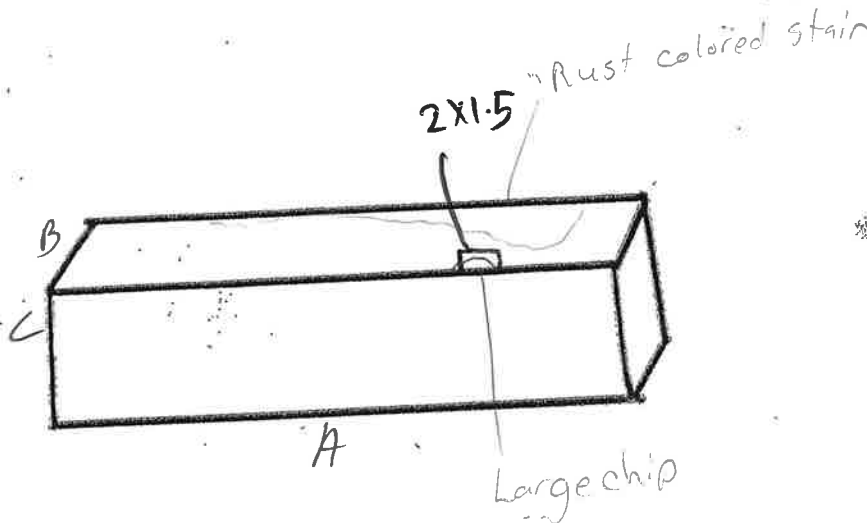
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
02EE

Location	Length (in)
A	75 1/8
B	16
C	5 1/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joint	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored stains on tread
large chip on tread/nosing right side

Stone cleaning recommended: Minor Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

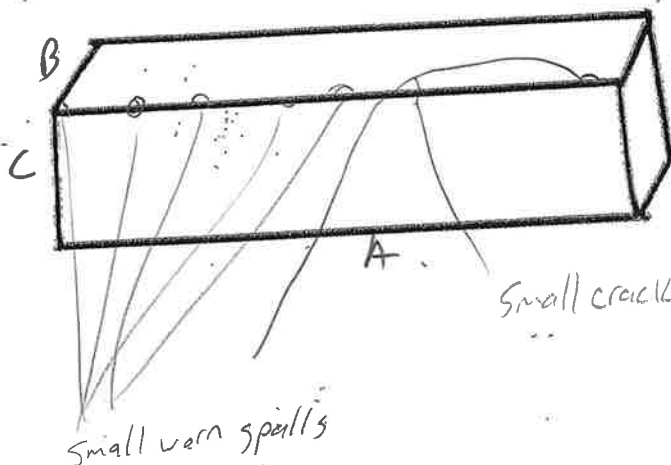
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
02EW

Location	Length (in)
A	75 3/4
B	16
C	5 1/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joint	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Small worn spalls along nosing
Rough wear through center of stone-tread + riser
Small crack on nosing right of center

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WEP/GSD Representative:

Chris Lehman
(Print)

(Signed)

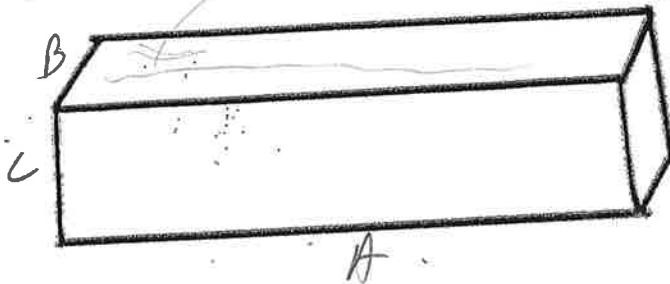
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH

Rust colored stains.



Stone ID No.
026E

Location	Length (in)
Mortar Joints	
A	40 1/8
B	16
C	5 1/2
Stone	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Rust colored stains on tread

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WEP/GSD Representative:

Chris Lehman
(Print)

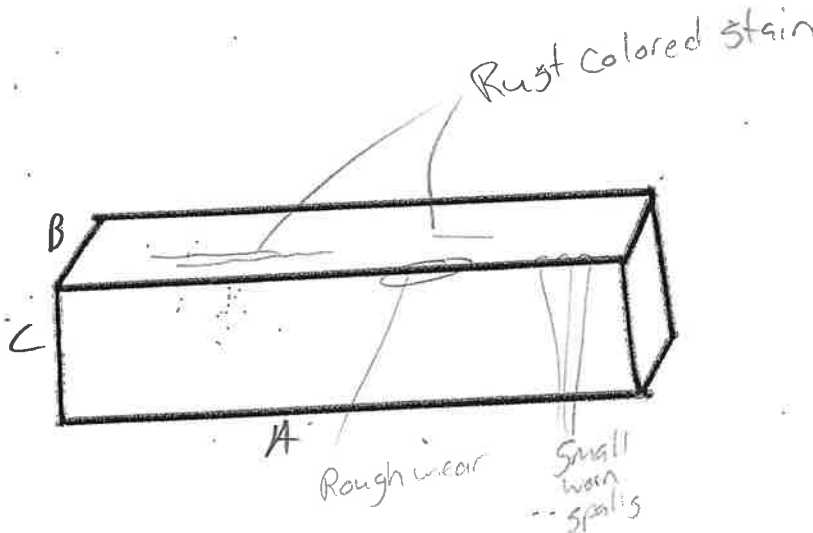
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
02GW

Location	Length (in)
A	40 5/8
B	16
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored stains on tread
Rough wearing along nosing
Small worn spalls right side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Chris Lehman
(Print)

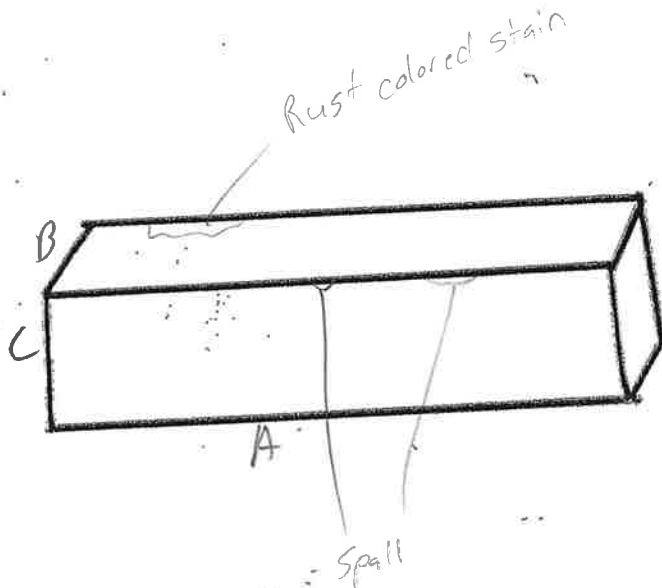
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
03BE

Location	Length (in)
A	78 5/8
B	16
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored stains on tread back side
2 spalls on nosing; left of center & right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: _____

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDF/GSD Representative: _____

Chris Chmura
(Print)

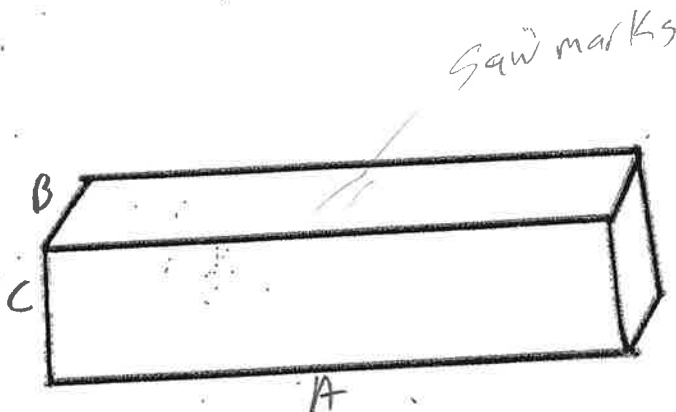
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
03BW

Location	Length (in)
Overall Dimensions	
A	78 1/4
B	16
C	5 3/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks on center of tread

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

(Print) Scott Johnson

(Signed) [Signature]

Date: 9-12-22

WDP/GSD Representative:

(Print) Chris Lehman

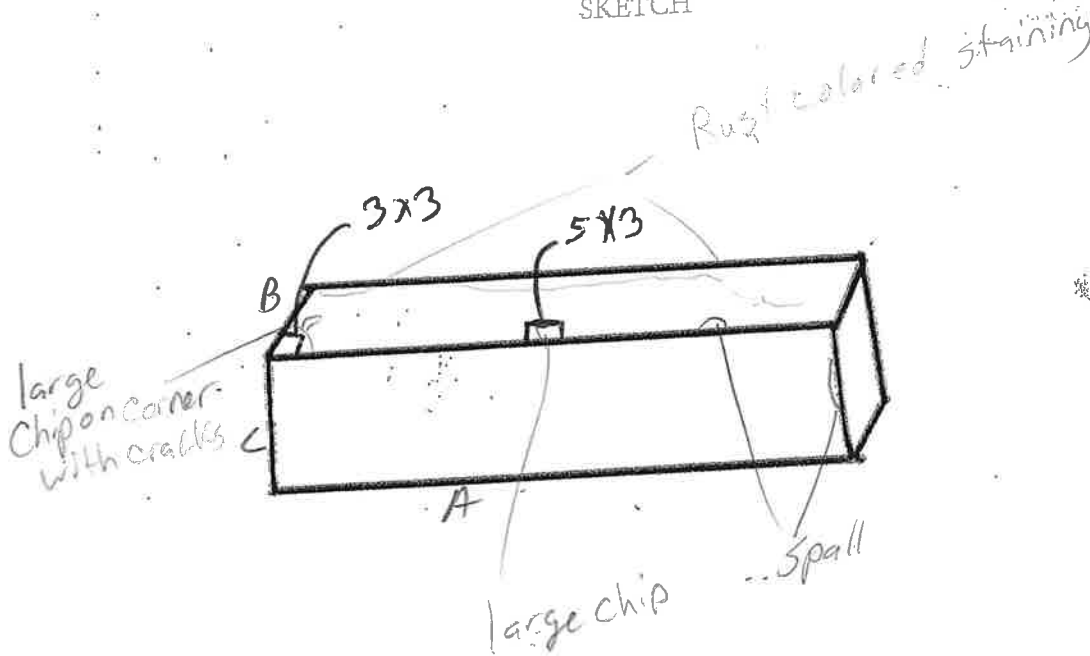
(Signed) [Signature]

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.

03DE

Location	Length (in)
A	75 1/8
B	14
C	5 1/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored staining along back of tread
large chip on front left corner of tread with cracks
large chip on tread at nosing left side
spall on nosing right side
spall on right hand joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 24 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WEP/GSD Representative:

Chris Uphman
(Print)

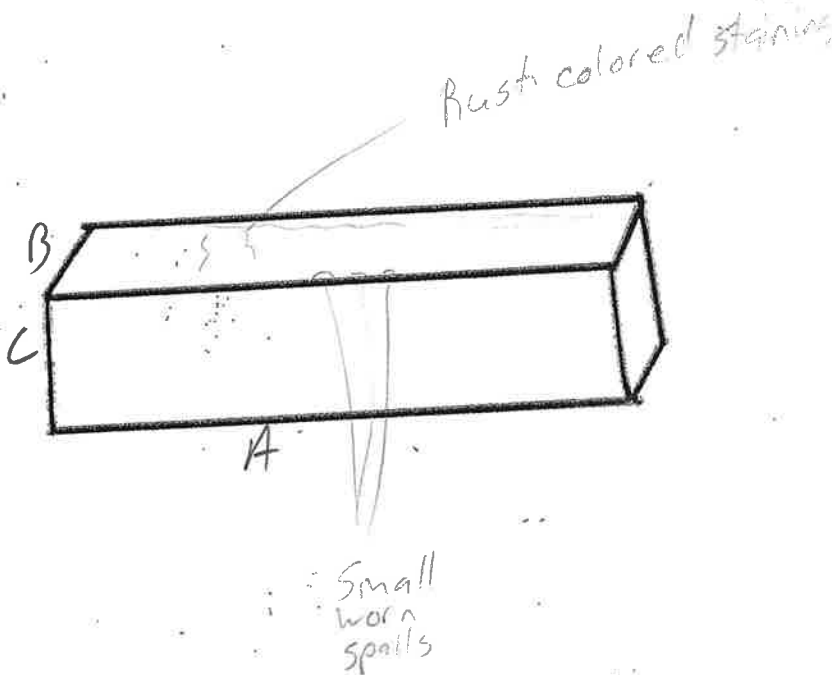
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.

03DW

Location	Length (in)
Overall Dimensions	
A	75 5/8
B	16
C	5 3/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):
Slight rust colored staining on tread
Small worn spalls/rough wearing along nosing

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WEP/GSD Representative:

Chris (Phon)
(Print)

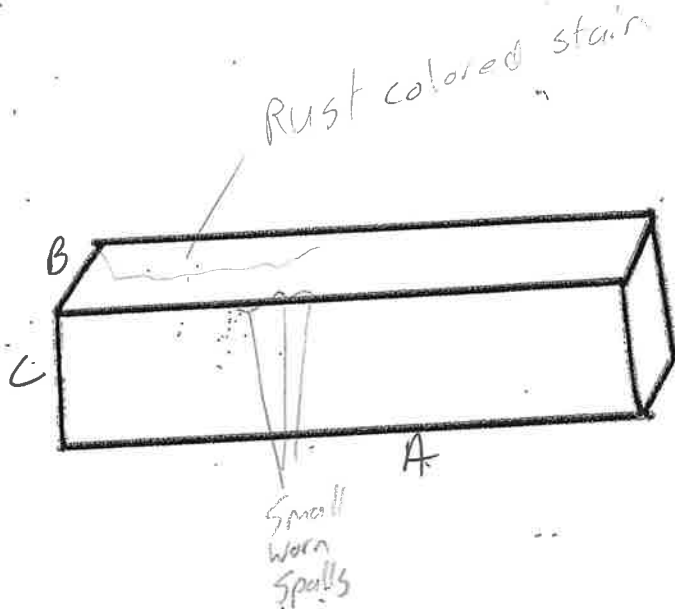
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
03FE

Location	Length (in)
A	78 1/8
B	16
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored staining on tread left side
3 Small worn spalls on nosing left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WBP/GSD Representative:

Chris Lannon
(Print)

(Signed)

Date: 9/20/22

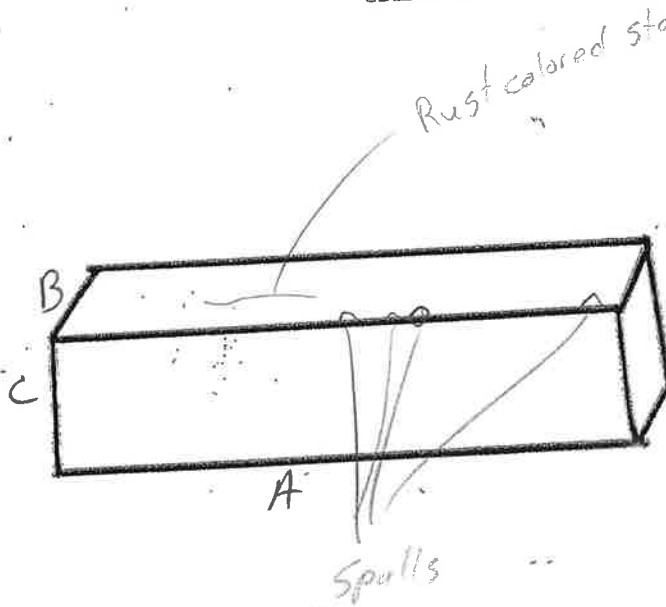
Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

Stone ID No.

03FW

SKETCH



Location	Length (in)
A	78 1/2
B	16
C	5 3/4
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored staining on tread
Small spalls along nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WEP/GSD Representative:

Chris Lehman
(Print)

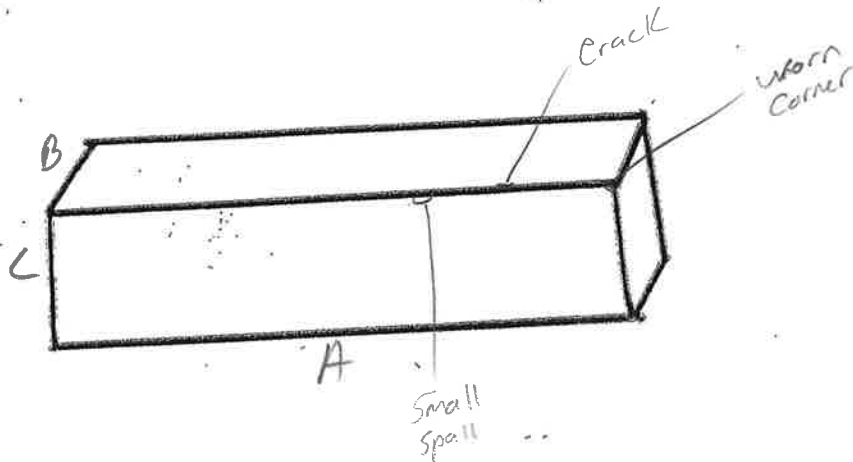
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
04AE

Location	Length (in)
Ground Dimensions	
A	40 5/8
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall on nosing right of center
Small crack on nosing right side
Worn corner top right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

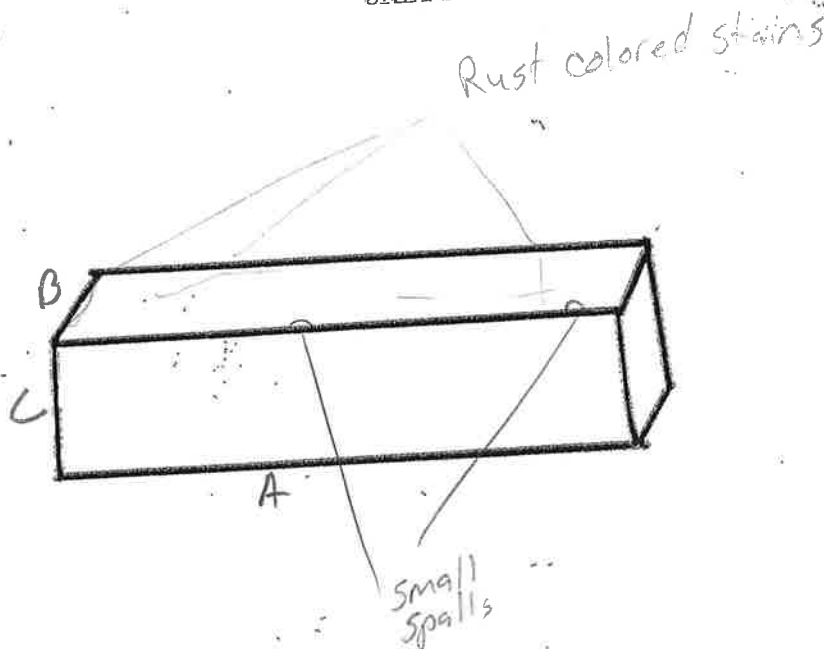
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
04AW

Location	Length (in)
Overall Dimensions	
A	40 5/8
B	16
C	5 1/2
Linear Points	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Linear Points	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Slight rust colored stains on tread
2 small spalls on nosing; left of center & right side

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WBP/GSD Representative:

Chris L. Johnson
(Print)

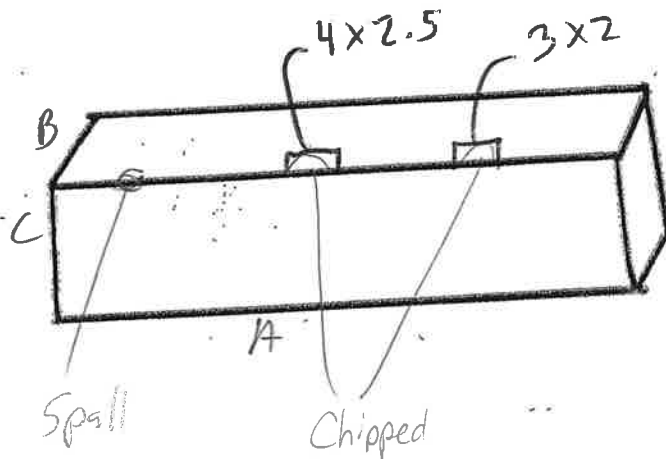
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
04CE

Location	Length (in)
Overall Dimensions	
A	75 1/4
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall on nosing left side
2 large chips on nosing/tread; left of center + right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____
Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 16 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Uhlman
(Print)

(Signed)

Date: 9/20/22

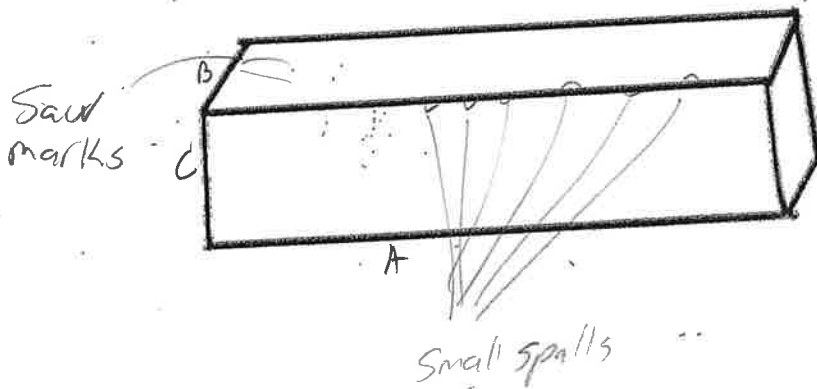
Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH

Stone ID No.
04CW

Location	Length (in)
Overall Dimensions	
A	75 1/2
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Material	
Side	
Top	
Bottom	



Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls + rough wear along nosing
Saw marks on tread left side
Slight rust colored stains on tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WEP/GSD Representative:

Chris Johnson
(Print)

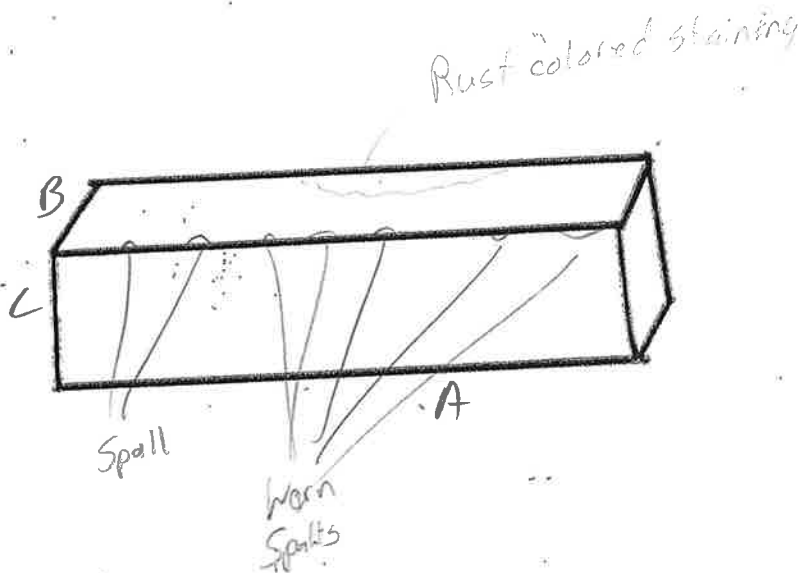
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.65
Storage Drawing _____

SKETCH



Stone ID No.
04EE

Location	Length (in)
A	75 3/8
B	15 1/2
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Minor Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spalls all along the nosing
Rust colored staining on tread along back joint

Stone cleaning recommended: Minor Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WEP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH

Stone ID No.
04EW

Rust colored stains



Location	Length (in)
A	75 3/4
B	16
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Rust colored stains on tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Chris Langan
(Print)

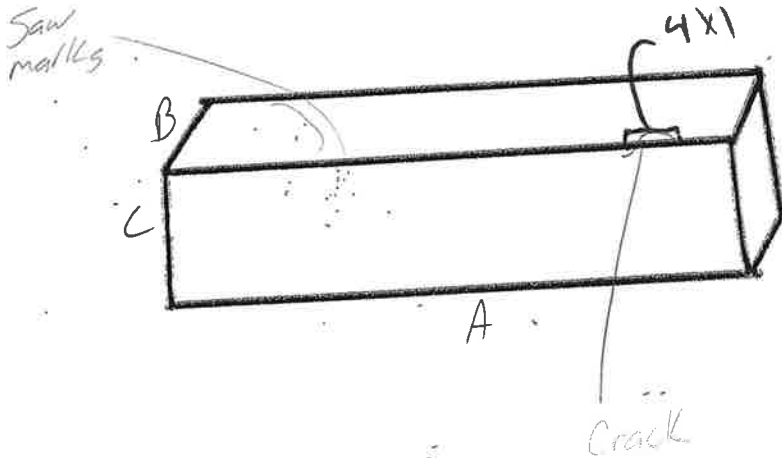
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Date: 9/12/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
04GE

Location	Length (in)
Overall Dimensions	
A	40 1/2
B	16
C	5 1/2
Joint Lines	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks on tread left side
Crack on nosing & tread right side

Stone cleaning recommended: Minor Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 4 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WEP/GSD Representative:

Chris Lehman
(Print)

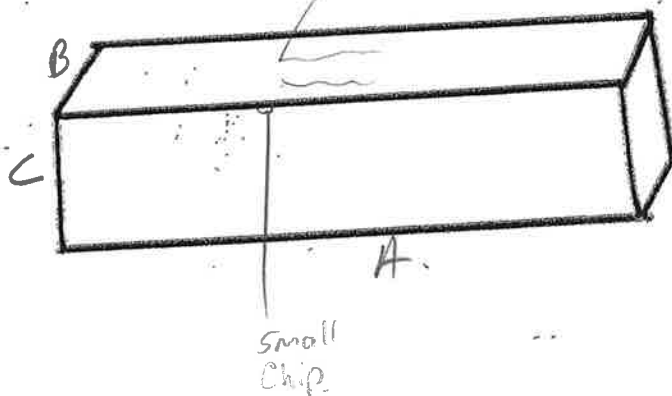
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.

04GW

Location	Length (in)
A	40 5/8
B	16 1/4
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored stains on tread
Small chip on nosing left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WBP/GSD Representative:

Chris Lehman
(Print)

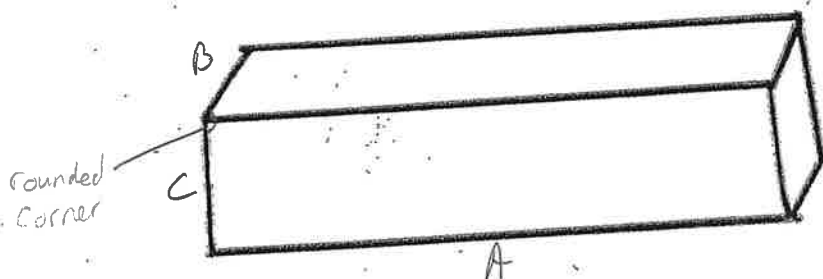
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
05BE

Location	Length (in)
Overall Dimensions	
A	78 5/8
B	14
C	5 1/2
Joint Dimensions	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Surface Areas	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

top left corner of riser rounded

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

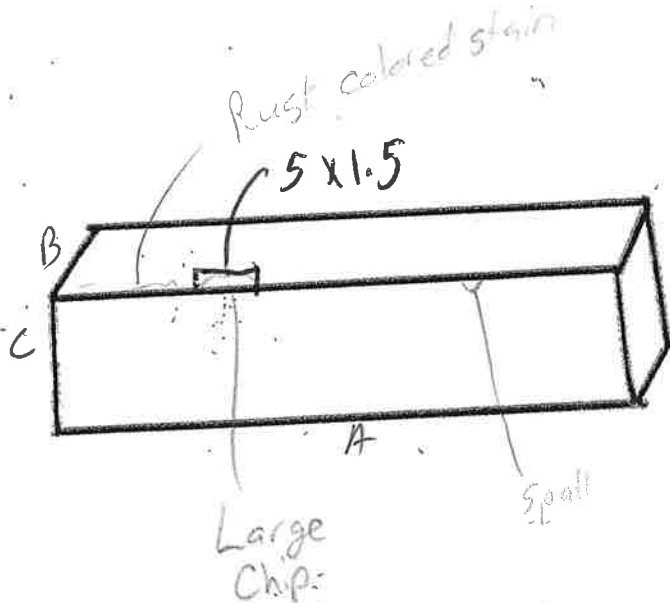
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.

05BW

Location	Length (in)
Detail Dimensions	
A	78 1/2
B	14
C	5 1/2
Other Dimensions	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Weathering	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Slight rust colored staining on tread near front
Spall on nosing right side
Large chip on nosing/tread left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 7.5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-12-22

WEP/GSD Representative:

Chris Lehman

(Print)

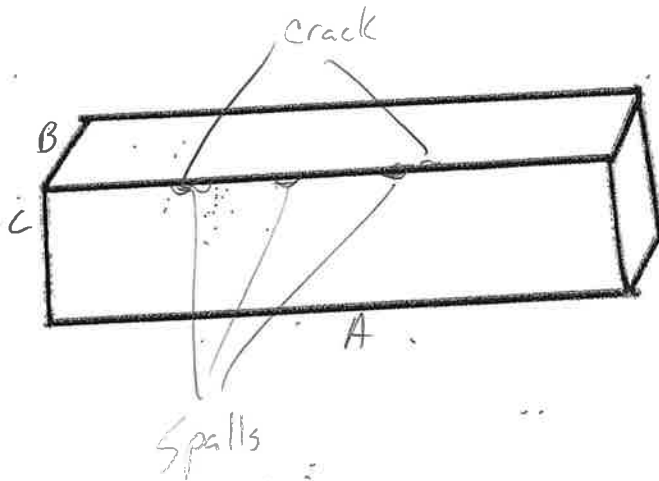
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
05DE

Location	Length (in)
A	75 1/8
B	14
C	5 1/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls along nosing
Small crack left side on nosing
Small cracks right side on nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Gorman
(Print)

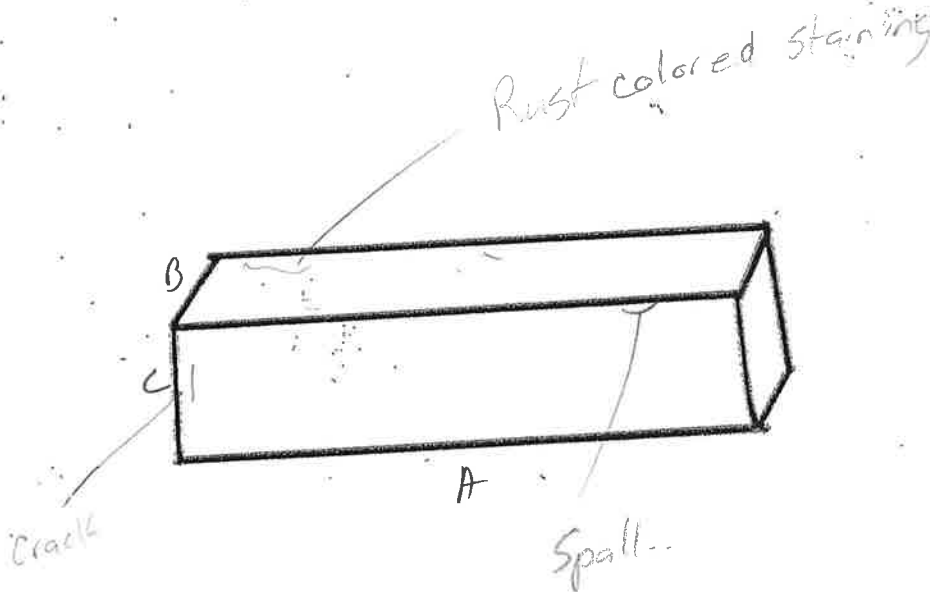
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
05DW

Location	Length (in)
A	75 3/4
B	14
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joint	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored stains on tread
Crack on left side of riser next to head joint
Spall on right side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WBP/GSD Representative:

Chris Chapman
(Print)

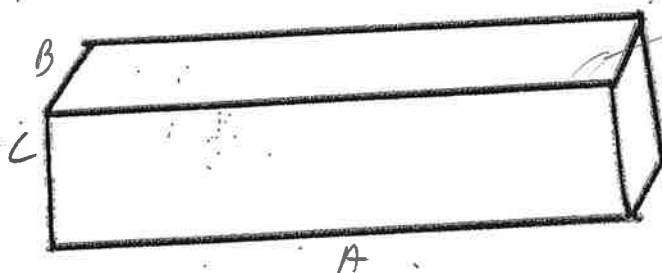
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
05FE

Location	Length (in)
Overall Dimensions	
A	78 1/4
B	14
C	5 3/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks on tread right side

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WEP/GSD Representative:

Chris Lehman
(Print)

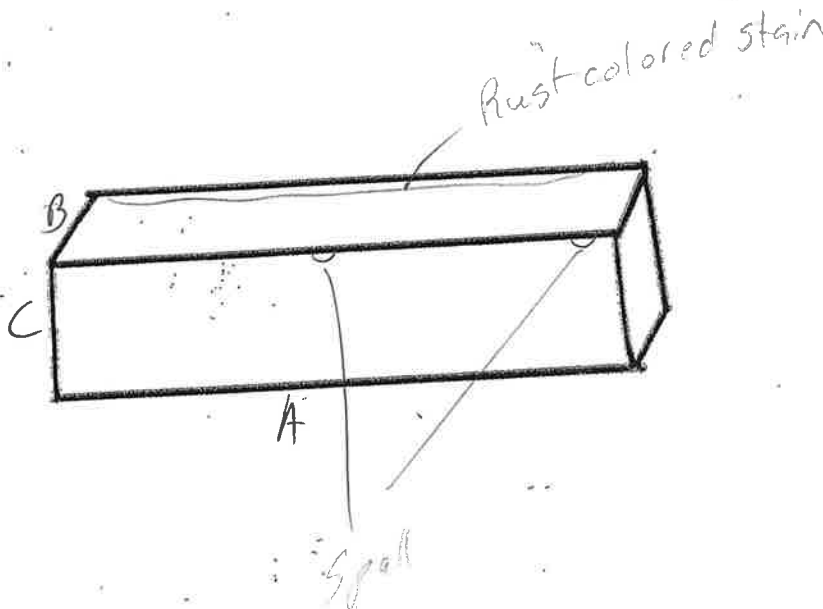
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
05FW

Location	Length (in)
Overall Dimensions	
A	78 1/2
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rust colored stain near back joint of tread
2 spalls on nosing; left side + near right corner

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____
Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]
To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-13

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

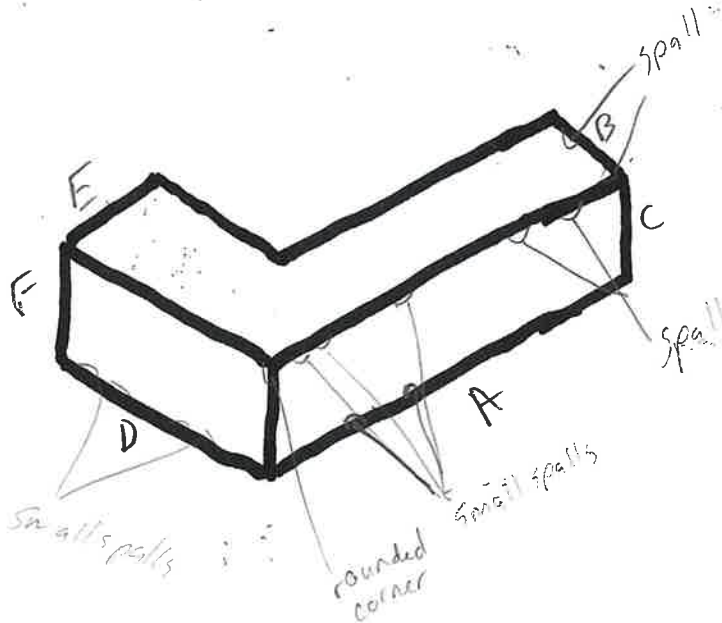
Granite Lower Flight Treads

Rows 11-22

Stone Survey Sheet

Location Drawing 10401
Storage Drawing 010011

SKETCH



Stone ID No.

11BE

Location	Length (in)	
Overall Dimensions		
A	6 1/2	
B	18 3/4	
C	5 1/4	
	Left	Right
D	18 1/2	
E	14	
F	5 3/4	
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls on east facing bed joint of riser
2 spalls left side of bed joint of riser
rounded corner top left of riser
2 spalls right joint of tread; 1 at bottom right corner
5 spalls along nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Cliff
(Print)

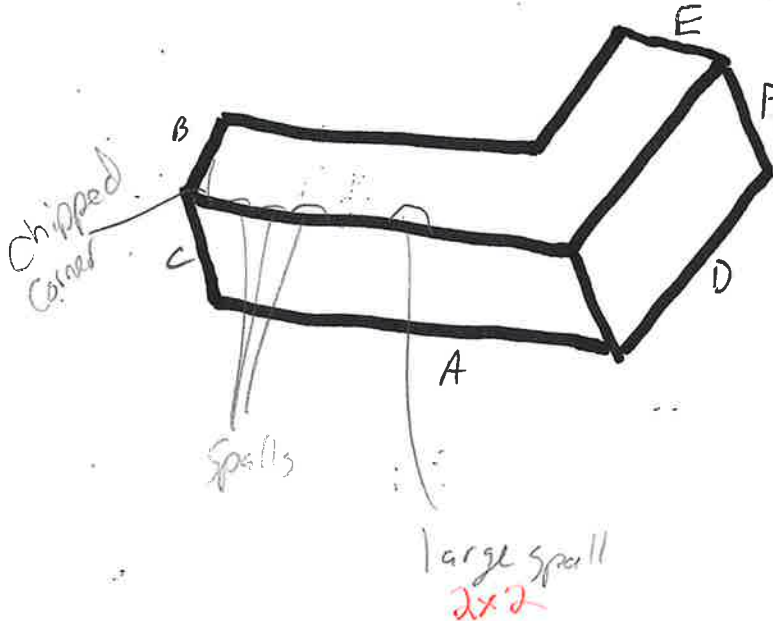
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/HH/1

SKETCH



Stone ID No.

11 BW

Location	Length (in)	
Overall Dimensions		
A	6 1/2	
B	16	
C	5 1/4	
	Left	Right
D	18 3/4	
E	14	
F	5 3/4	
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on tread near back joint + right side
Chipped corner left front of tread
Spalling along left side of nosing
Large spall on left of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris
(Print)

(Signed)

Date: 9-20-22

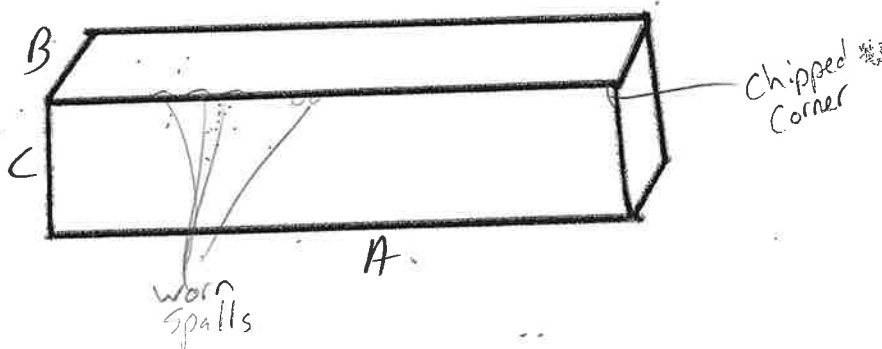
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/EE/19

Stone ID No.

11DE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 5/8	
Joint		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spalls/wearing left side of nosing
Chipped corner top right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

(Print)

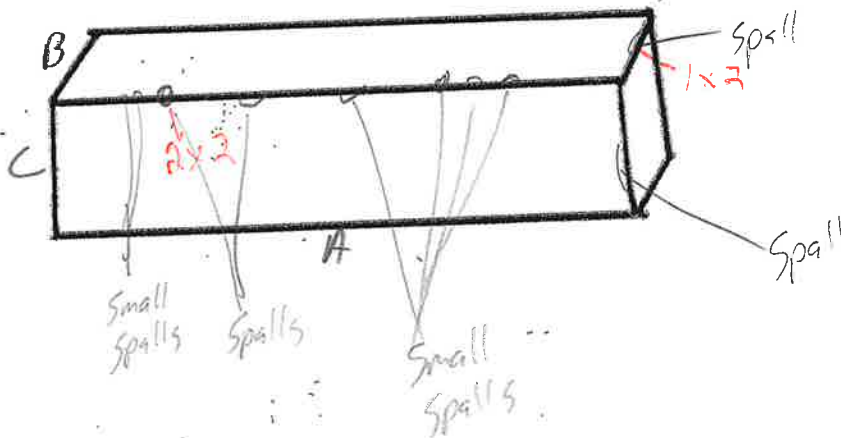
(Signed)

Date: 9-22-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1.66/1

SKETCH



Stone ID No.

11DW

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	16
C	5 1/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy saw marks across tread
2 small spalls on nosing left side
2 large spalls on nosing left side + center
Several small spalls along nosing right side
Spall on right joint of tread
Spall on right head joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 6 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

W. Miller
(Print)

(Signed)

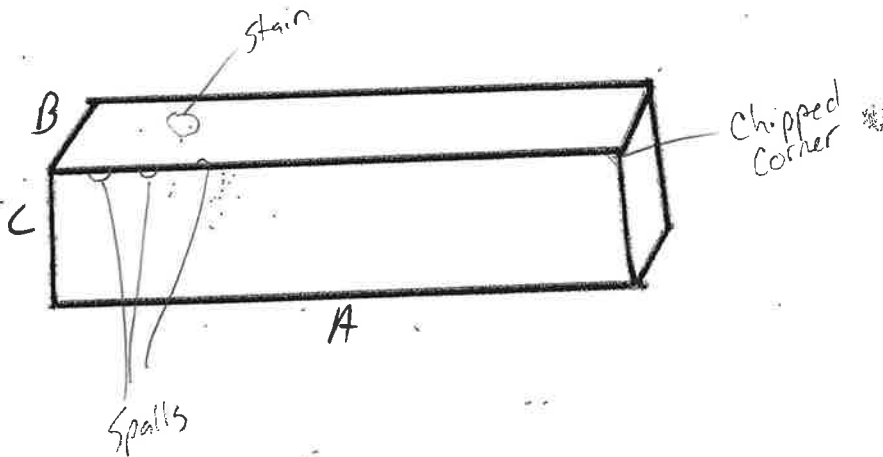
Date: 9-22-22

Stone Survey Sheet

Location Drawing 04.01

Storage Drawing 01E-13

SKETCH



Stone ID No.

11FE

Location	Length (in)	
Overall Dimensions		
A	17 5/8	
B	14	
C	5 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

3 Spalls on left side of nosing
Stain on left side of tread
Chipped corner top right of riser

Stone cleaning recommended: Minor Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Willie
(Print)

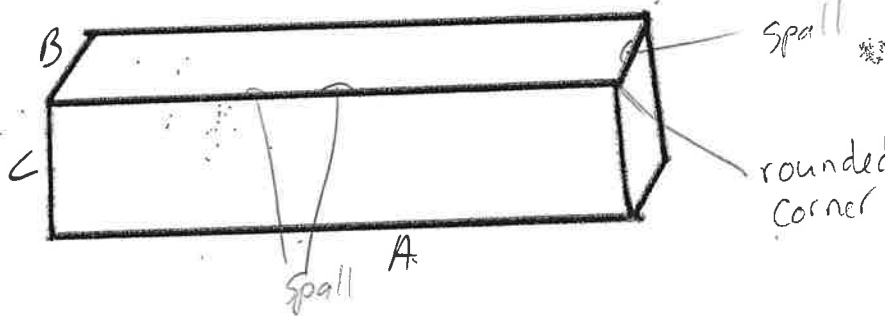
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1.6612

SKETCH



Stone ID No.
11FW

Location.	Length (in)	
Overall Dimensions		
A	97 ³ / ₄	
B	16	
C	5 ³ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
2 spalls on nosing, center + left side
Spall on right joint of tread
rounded corner top right of riser

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

Willa
(Print)

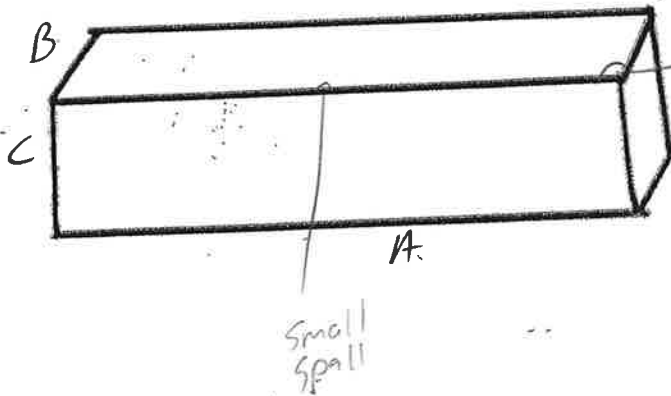
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 21.EE/2

SKETCH



Stone ID No.

11HE

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	1 6/8
C	5 3/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Small spall on nosing near center
Chipped corner front right of tread

- Stone cleaning recommended: Mino / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Alia
(Print)

(Signed)

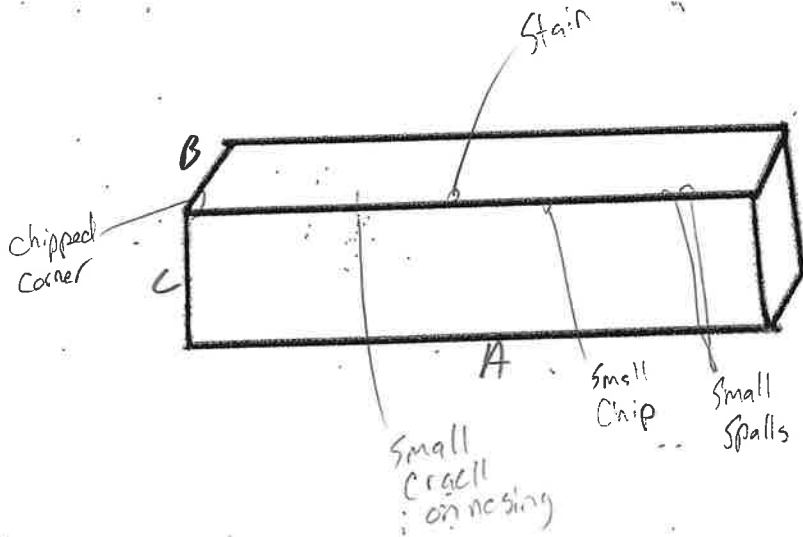
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4-01
Storage Drawing D16613

Stone ID No.
11HW

SKETCH



Location.	Length (in)	
Overall Dimensions		
A	9 7/8	
B	16	
C	5 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks across tread; heavy on left side + right front corner
Chipped corner topleft of 1:50
Small crack on nosing/tread left side
Stain on tread left of center near front
Small chip on nosing right of center
2 small spalls on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

CViller
(Print)

(Signed)

Date: 9-20-22

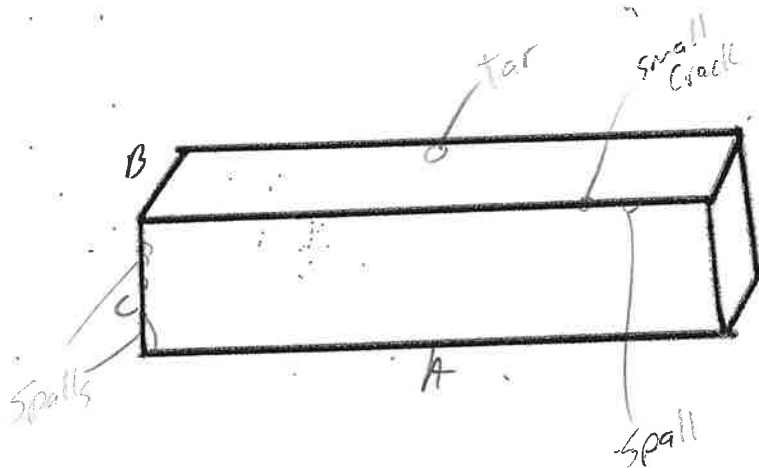
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/EE/11

Stone ID No.

11KE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	97 5/8	
B	16	
C	5 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spalling along left head joint of riser
small crack on nosing right side
small spall on nosing right side
tar spot on tread back center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

(Print)

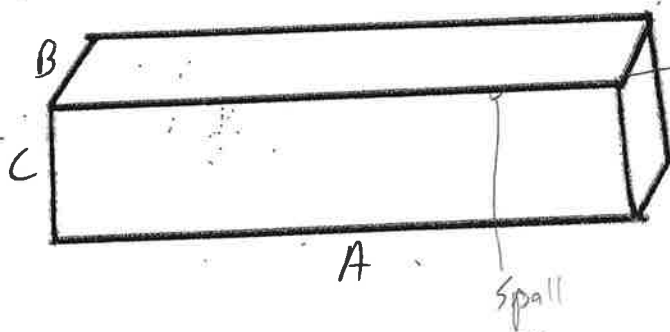
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D16614

SKETCH



Stone ID No.
11KW

Location	Length (in)	
Overall Dimensions		
A	97 1/4	
B	16 1/8	
C	5 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy saw marks left side of tread
Small spall on nosing right side
Slight cracking at corner top right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

(Print)

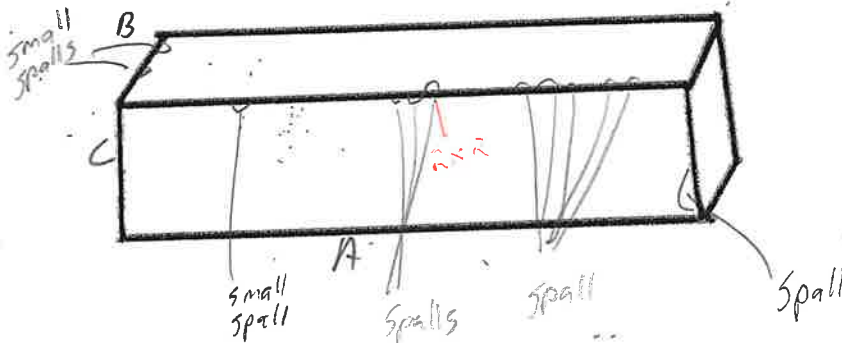
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Date: 9-20-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing D/FF14

SKETCH



Stone ID No.

11ME

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 3/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- 2 small spalls left joint of tread
- small spall on nosing left side
- 3 spalls on nosing left of center
- 5 spalls on nosing right side
- saw marks across tread
- spall on right head joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 4 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

(Print)

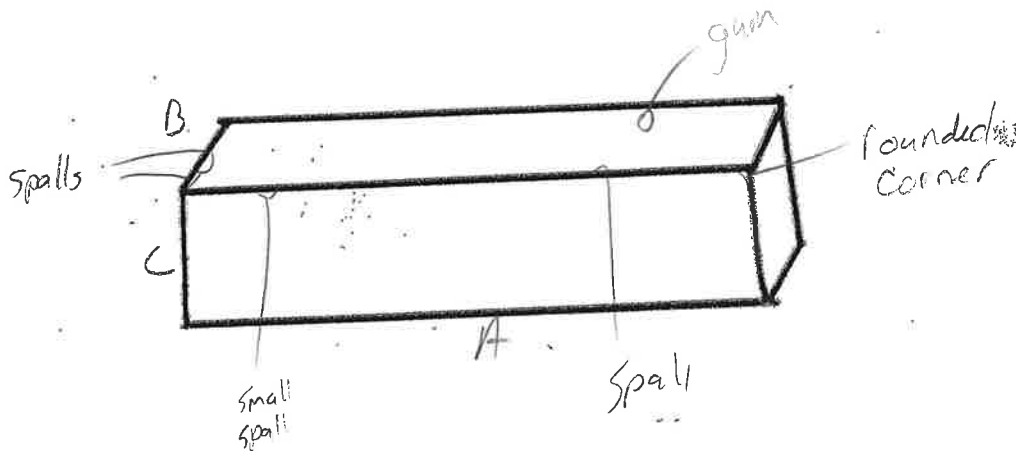
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/I.F/I

SKETCH



Stone ID No.
11MW

Location	Length (in)
A	97 3/8
B	14
C	5 1/4
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joint	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
2 spalls on left joint of tread
Small spall on nosing left side
Spall on nosing right side
Gum spot on tread right side near back joint
Rounded corner top right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

(Print)

Miller

(Signed)

Utt. M

Date: 9-20-22

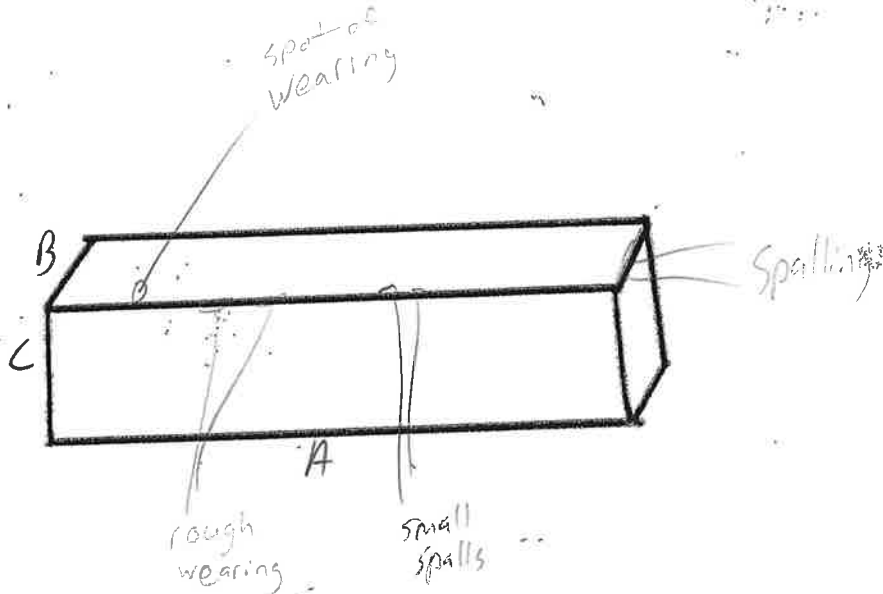
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DIFFIE

Stone ID No.

11PE

SKETCH



Location	Length (in)
Overall Dimensions	
A	9 7/4
B	16
C	5 1/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spot of wearing on tread left front at nosing
rough wearing along nosing left side
2 small spalls on nosing right side
Spalling along right joint of tread and at right front corner

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

Chilla
(Print)

(Signed)

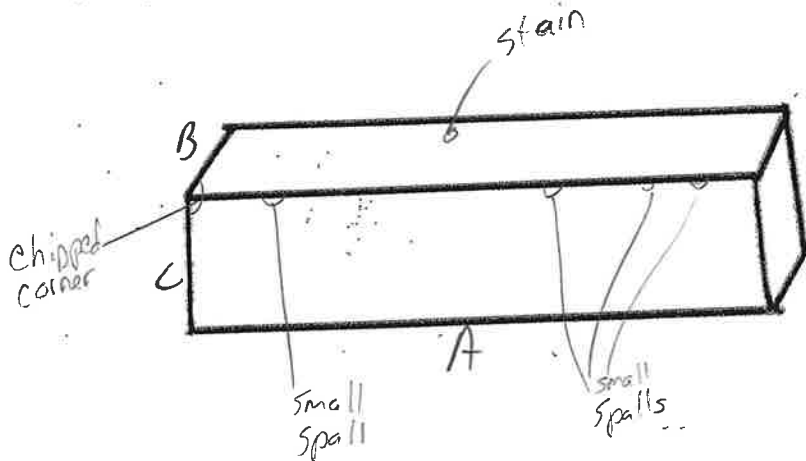
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/FF-12

Stone ID No.
11PW

SKETCH



Location.	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16 1/8	
C	5 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner top left of riser
Small spall on nosing left side
3 small spalls on nosing right side
Stain on tread near back joint left of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

(Print)

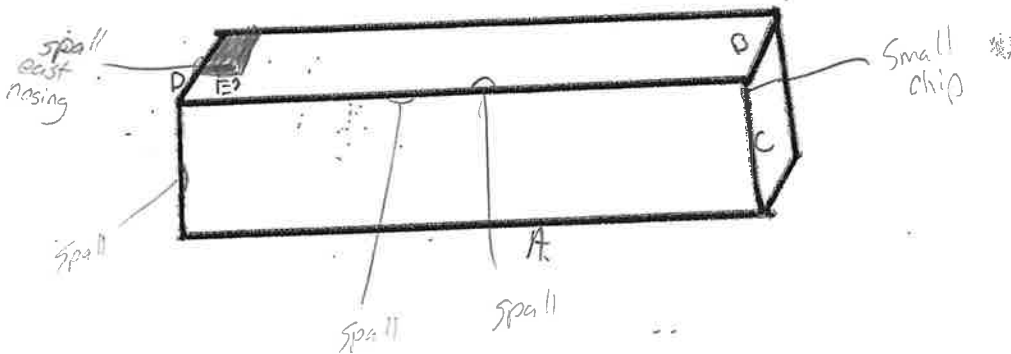
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 0008 II

SKETCH



Stone ID No.
12CE

Location.	Length (in)	
Overall Dimensions		
A	9 7/8	
B	1 1/2	
C	5 1/2	
	Left	Right
D	4 7/8	
E	5 1/4	
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall east facing nosing
Spall left corner of riser
2 Spalls on nosing; left side & center
Small chip top right corner of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lihman
(Print)

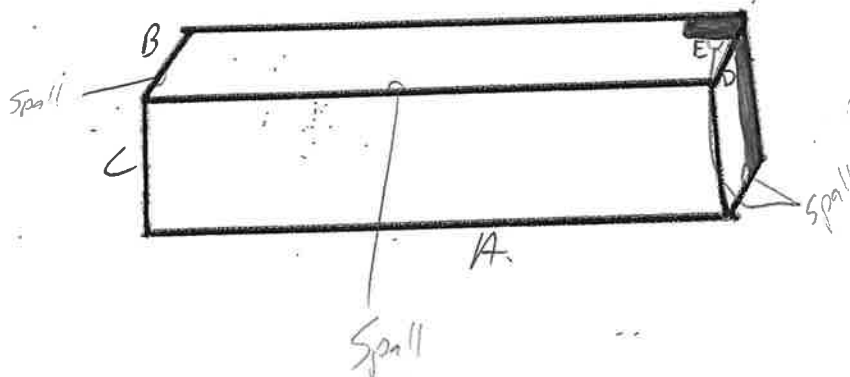
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 0002

SKETCH



Stone ID No.
12CW

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	16
C	5 1/2
Mortar Joints	
D	4 3/4
E	5 7/8
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks across tread. Heavy at right front corner
Spall left joint of tread
Spall on nosing left of center
Spall bottom right corner of west face
Spall back right corner of tread

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

Chris Lehman
(Print)

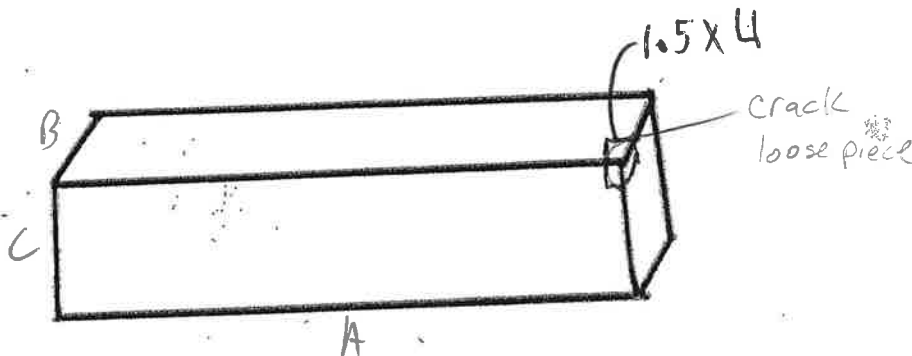
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing 14.01
Storage Drawing 0113

SKETCH



Stone ID No.
12EE

Location	Length (in)	
	Overall Dimensions	
A	97 3/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
	Mortar Joints	
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks along front of tread
Crack with loose piece front right corner of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 6 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lehman
(Print)

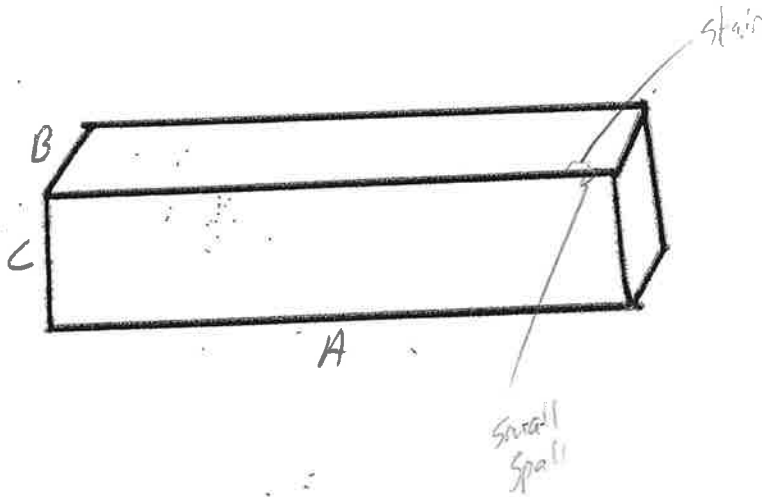
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 0003

SKETCH



Stone ID No.
12EW

Location.	Length (in.)	
Overall Dimensions		
A	97 1/4	
B	16	
C	55 1/8	
Mortar Joints		
D	Left	Right
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy wearing on tread
Stain on tread at nosing front right of tread near corner
Spall on nosing right side near corner

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lhman
(Print)

(Signed)

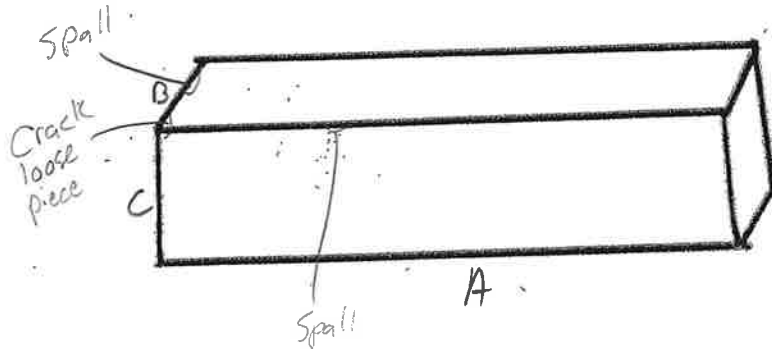
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D112

SKETCH

Stone ID No.
12GE



Location	Length (in)	
Overall Dimensions		
A	17 3/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall left joint of tread
Crack with loose piece front left corner of tread
Spall on nosing left side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris Lehman
(Print)

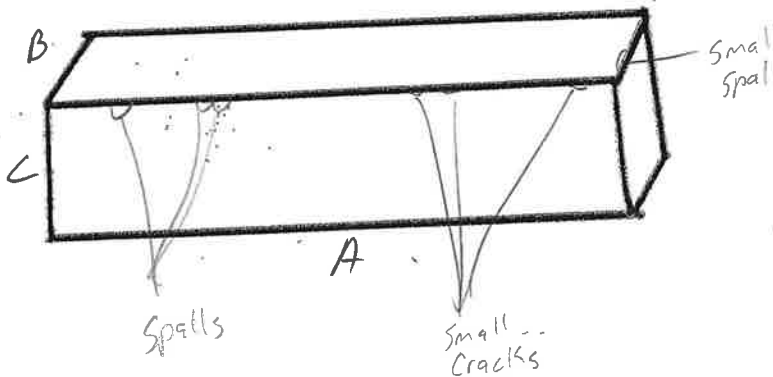
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DD04

SKETCH



Stone ID No.
12GW

Location.	Length (in)	
Overall Dimensions		
A	97 7/8	
B	14	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Major Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy wearing on tread
3 spalls on nosing left side
3 small cracks on nosing right side
small spall on right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris Lehman
(Print)

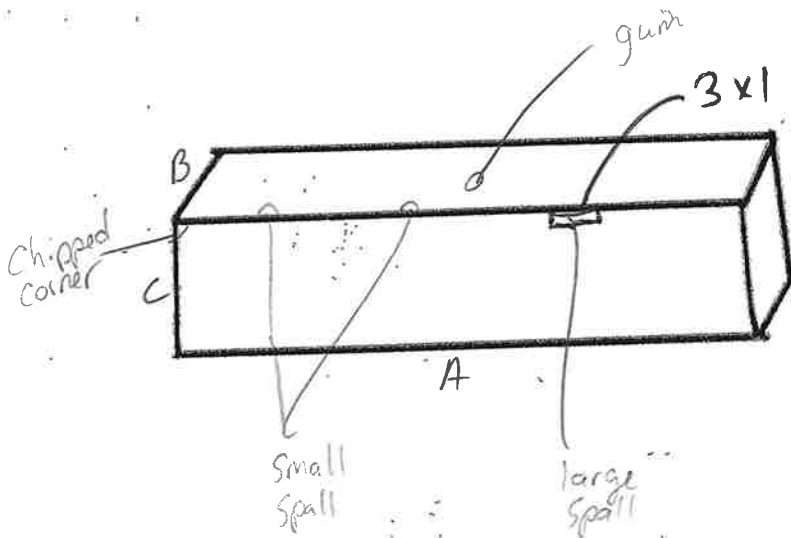
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DDX 10

SKETCH



Stone ID No.

12JE

Location	Length (in)
Mortar Joints	
A	9 7/8
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner top left of riser
2 small spalls on nosing left side
large spall on nosing right side
gum spot on tread near center

Scuff marks on tread right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? ☒ Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / ☒ No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris Lehman
(Print)

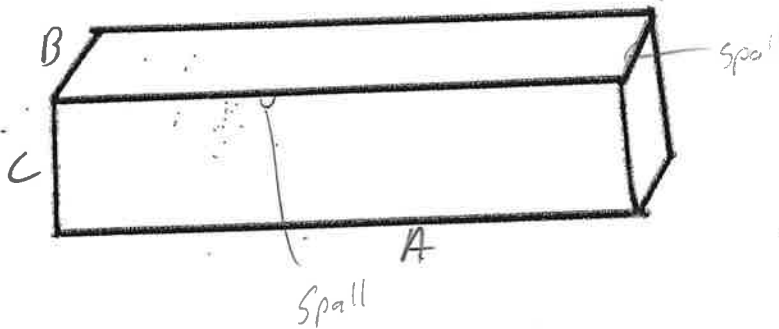
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Date: 9/20/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing 0005

SKETCH



Stone ID No.
12JW

Location	Length (in)	
Overall Dimensions		
A	9 7/8	
B	1 1/4	
C	5 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy wearing across tread
Saw marks on left front corner of tread & front right corner
Small spall on nosing left side
Small spall on right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSE Representative:

Chris Lehman
(Print)

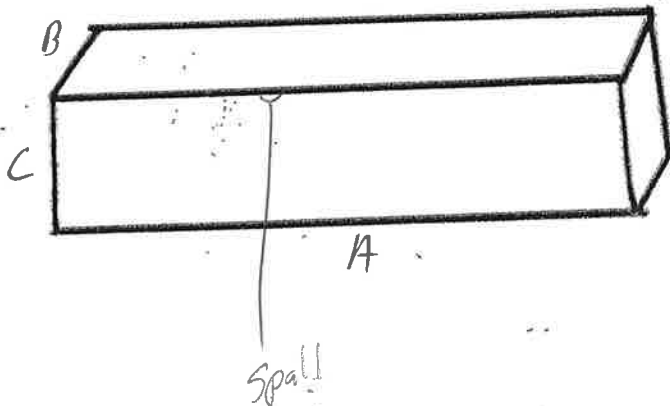
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DIT1

SKETCH



Stone ID No.
12LE

Location	Length (in)
Overall Dimensions:	
A	9 7/4
B	16
C	5 1/2
Mortar Joints:	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints:	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Small spall on nosing left side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lehman
(Print)

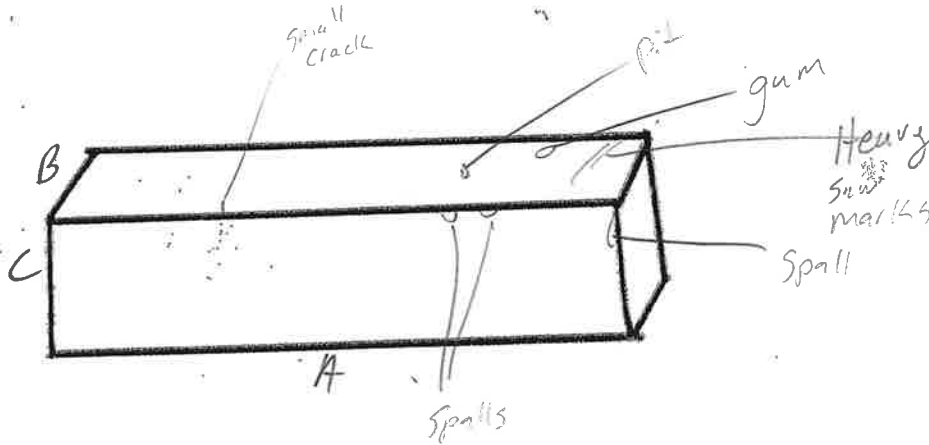
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 000X6

SKETCH



Stone ID No.
12LW

Location	Length (in)
Overall Dimensions	
A	97 5/8
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks across tread; Heavy at back right
Small crack on nosing left side
2 spalls on nosing right side
Small pit on tread right side
gum spot on tread back right
Spall on right head joint on riser near top

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris Lehman
(Print)

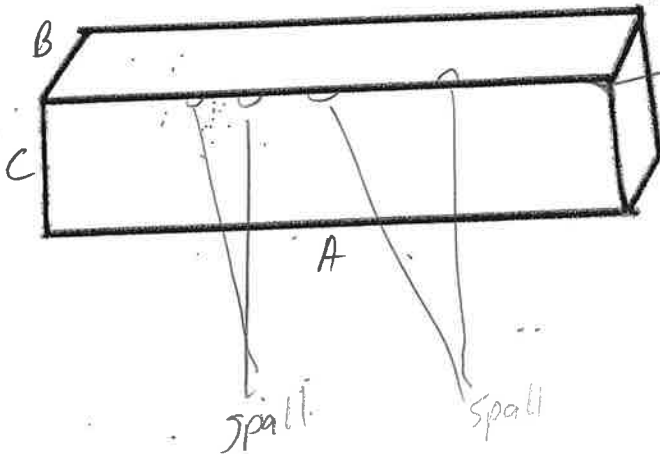
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Date: 9/24/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 000X9

SKETCH



Stone ID No.
12NE

Location	Length (in)
Overall Dimensions	
A	9 7/4
B	14
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Measurements	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 Spalls on nosing left side
Spall on nosing center
Spall on nosing right side
Rounded worn corner top right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lehman
(Print)

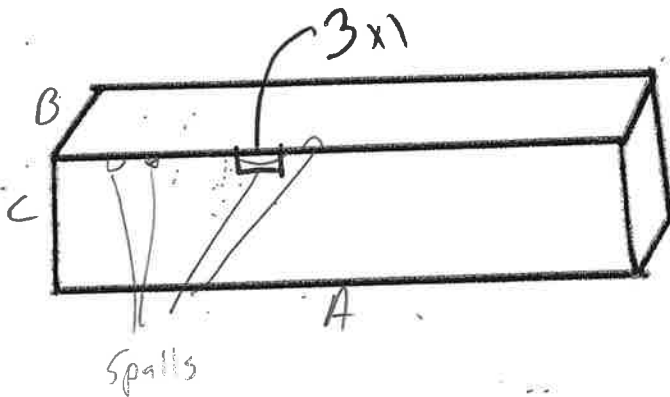
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 000 X 7

SKETCH



Stone ID No.
12NW

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	1 1/4
C	5 3/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

4 spalls on nosing left side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

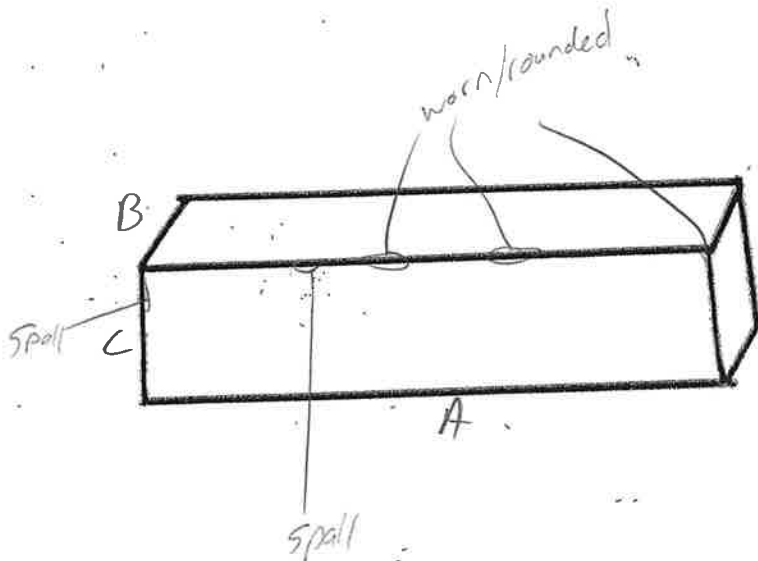
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 000X8

Stone ID No.

12Q

SKETCH



Location.	Length (in)	
Overall Dimensions		
A	97 1/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on bread left side
Spall left head joint of riser
Spall on nosing left side
Spots of wearing rounded nosing left + right of center
Worn round corner top right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lehman
(Print)

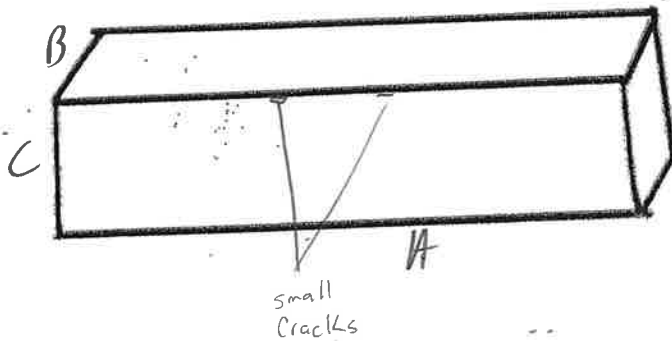
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Date: 9/29/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DPP4

SKETCH



Stone ID No.
13BE

Location	Length (in)	
Overall Dimensions		
A	50 1/4	
B	16	
C	5 1/8	
Mortar Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
2 very small cracks on nosing

• Stone cleaning recommended: Minor Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lehman
(Print)

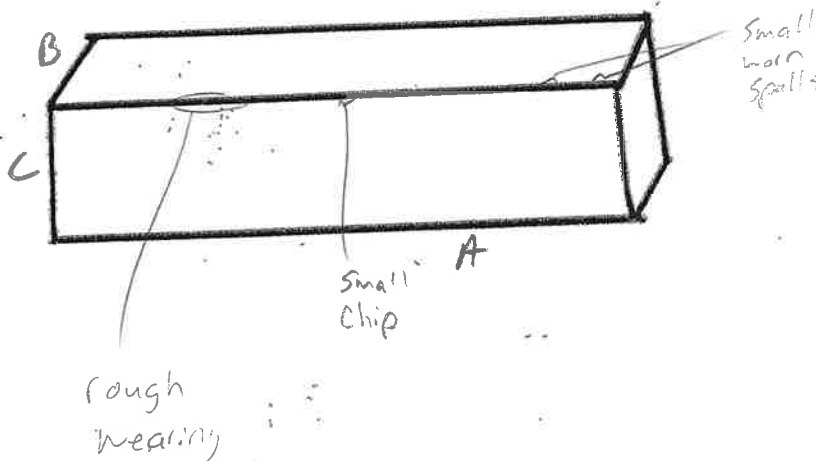
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D00X12

SKETCH



Stone ID No.

13BW

Location	Length (in)
Overall Dimensions	
A	50 1/8
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
2 small spalls on nosing right side
small chip on nosing center
Spot of rough wearing on nosing left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

Chris Lehman
(Print)

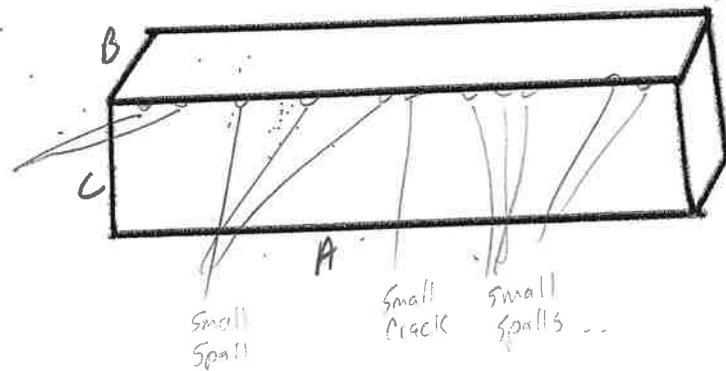
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DQA1

SKETCH



Stone ID No.
13DE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	15 7/8
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks across front
2 small cracks left side of nosing near corner
3 small spalls left side of nosing
small crack on nosing near center
5 small spalls right side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris Gorman
(Print)

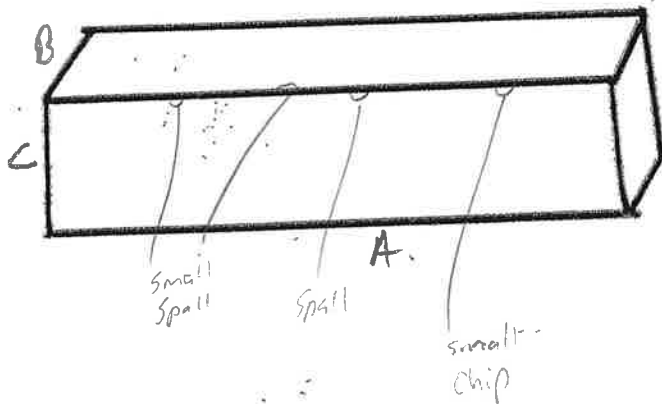
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 000813

SKETCH



Stone ID No.
13DW

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread left front corner
2 small spalls on nosing left side
Spall on nosing center
Small chip on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

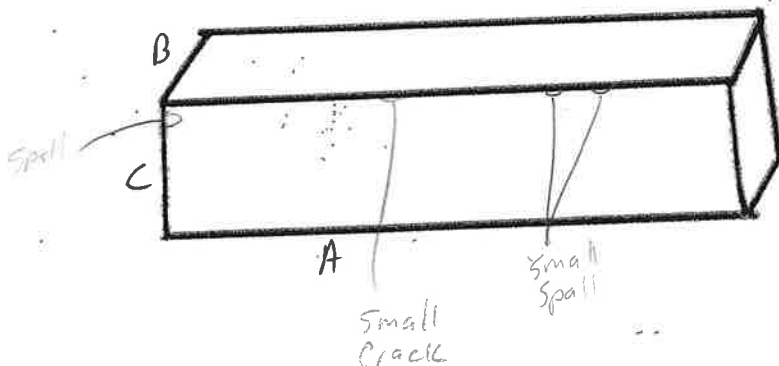
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D6.02

SKETCH

Stone ID No.
13FE

Location.	Length (in)	
Overall Dimensions		
A	97 1/4	
B	16 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Weathered Surfaces		
Side		
Top		
Bottom		



Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Agg. wearing along nosing
Small spall top left of riser
Small crack on nosing left of center
2 small spalls on nosing right side
Saw marks on face of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris Lehman
(Print)

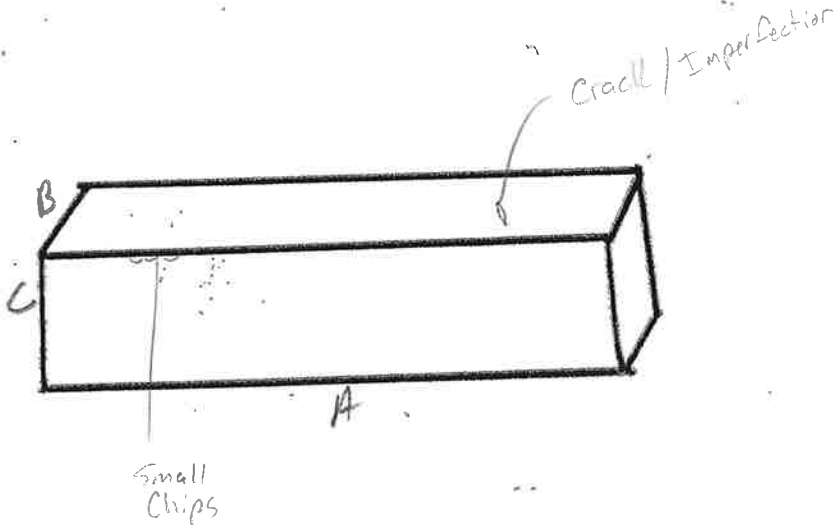
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 000814

SKETCH



Stone ID No.
13FW

Location	Length (in)
Overall Dimensions	
A	17 7/8
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Markings	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread left side
small chips on nosing left side
Crack / Imper Section right side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris L. Mann
(Print)

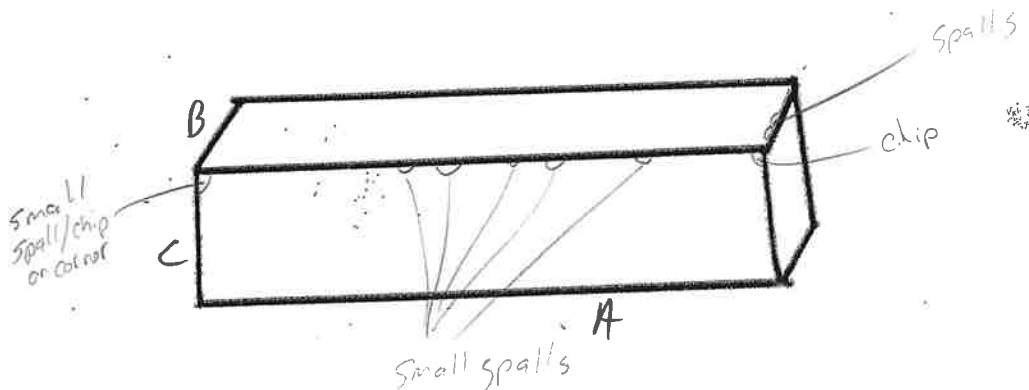
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 0003

SKETCH



Stone ID No.

13HE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16 1/8
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks across tread + riser face

Rough wearing on nosing

Several small spalls on nosing left of center to right side

Chips on corners top right + left of riser

2 spalls right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lehman
(Print)

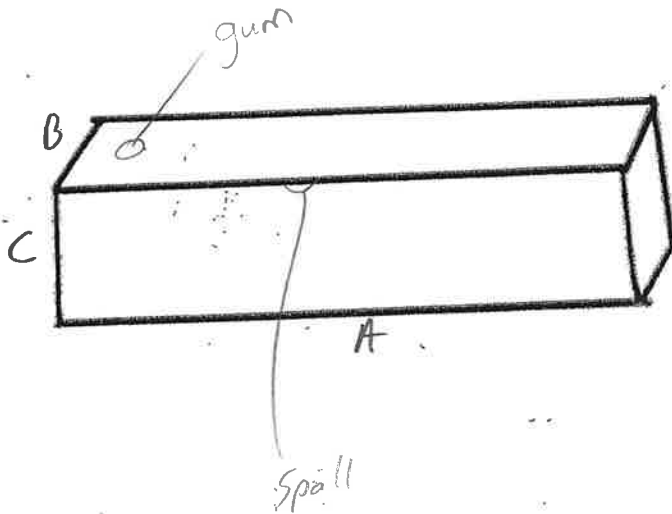
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Date: 9/24/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DDP 15

SKETCH



Stone ID No.
13HW

Location	Length (in)
Overall Dimensions:	
A	97 3/4
B	16
C	5 1/2
Mortar Joints:	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints:	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Gum spot on tread left side
Spall on nosing left of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

CHRIS LPHMAN
(Print)

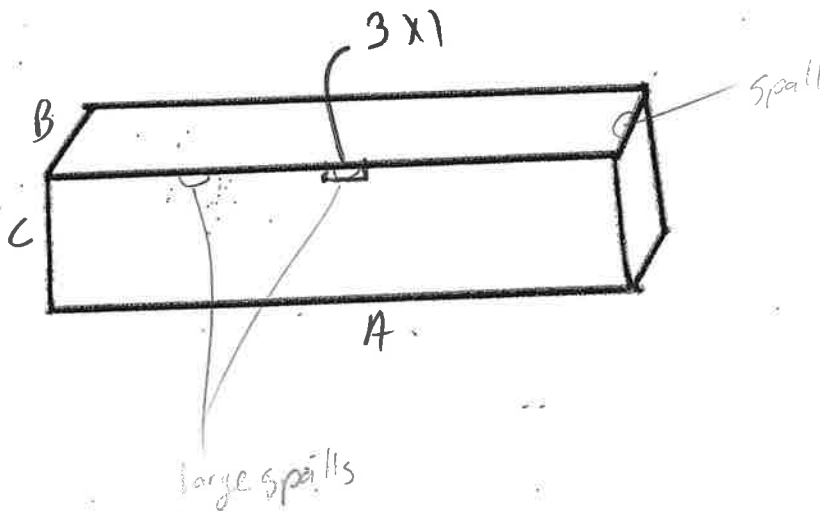
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PQRL

SKETCH



Stone ID No.
13KE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Spall on right joint to tread
2 large spalls on nosing; center + left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair
Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]
To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: _____

(Print)

(Signed)

Date: _____

WDP/GSD Representative: Chris Uhman

(Print)

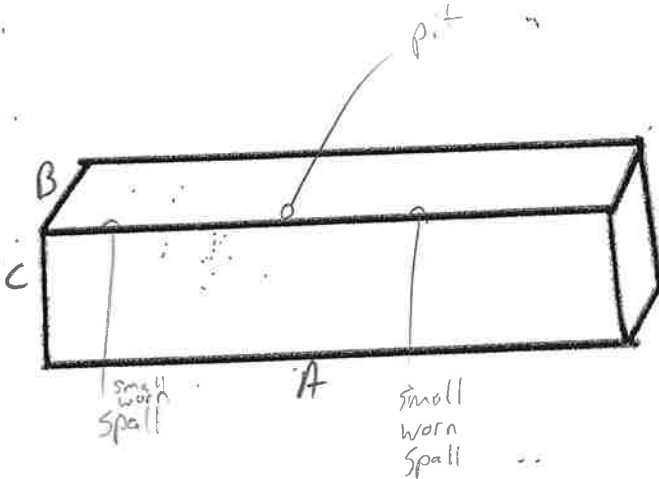
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 000116

SKETCH



Stone ID No.
13KW

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	16 1/8
C	5 3/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Small worn spalls on nosing right side & left side
Pit on tread near center
Saw marks on tread left side

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Patching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris Lehman
(Print)

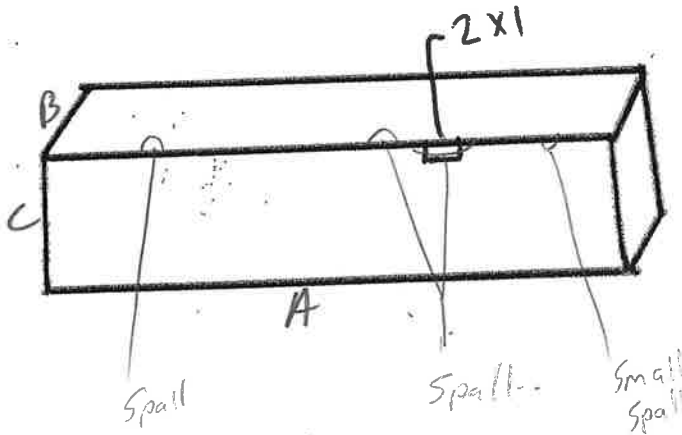
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Date: 9/20/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing 0001520

SKETCH



Stone ID No.
13ME

Location	Length (in)
Overall Dimensions	
A	17 3/4
B	15 7/8
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rough wear along nosing
spall on nosing left side
2 spalls on nosing right of center
1 small spall on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

(Print)

(Signed)

Date:

WBP/GSD Representative:

(Print)

(Signed)

Date:

Chris Lehman

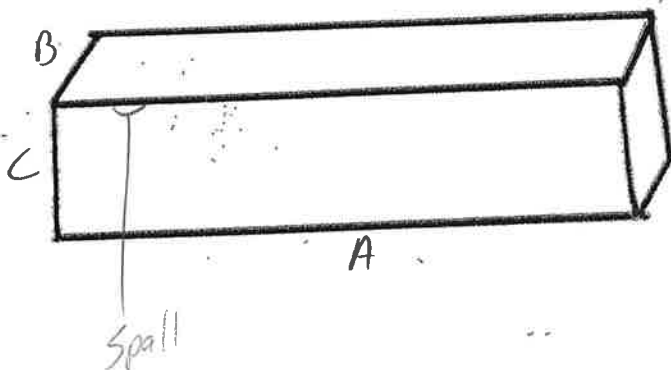
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9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 00017

SKETCH



Stone ID No.
13MW

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Rough wearing along nosing
Spall left side of nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date:

WBP/GSD Representative:

Chris Lehman
(Print)

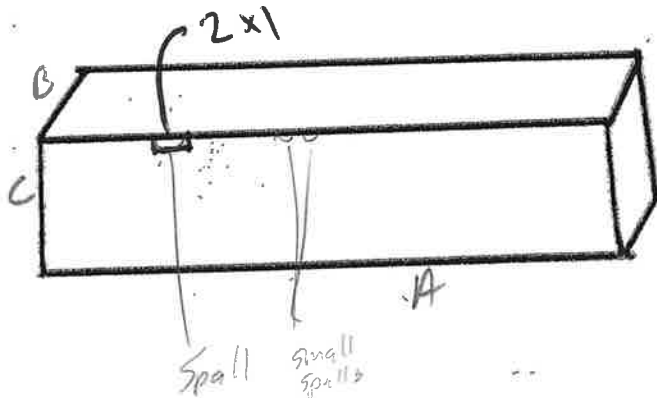
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 000119

SKETCH



Stone ID No.
13PE

Location	Length (in)
A	97 1/4
B	15 7/8
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joint	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall left side of nosing
2 small spalls on nosing left of center

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chris Lehman
(Print)

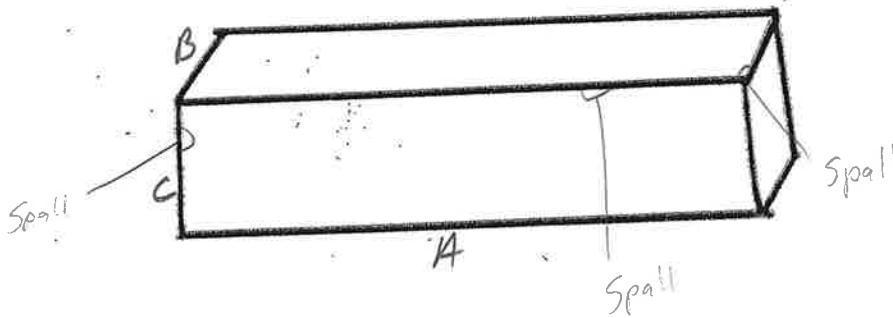
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DD018 18

SKETCH



Stone ID No.
13PW

Location.	Length (in)	
Overall Dimensions		
A	97 7/8	
B	16 1/8	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks left side of tread + riser face
Spall left hand joint of riser
Rough wearing along nosing
Spall right side of nosing + top right corner of riser

Stone cleaning recommended: Minor Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Chris Lehman
(Print)

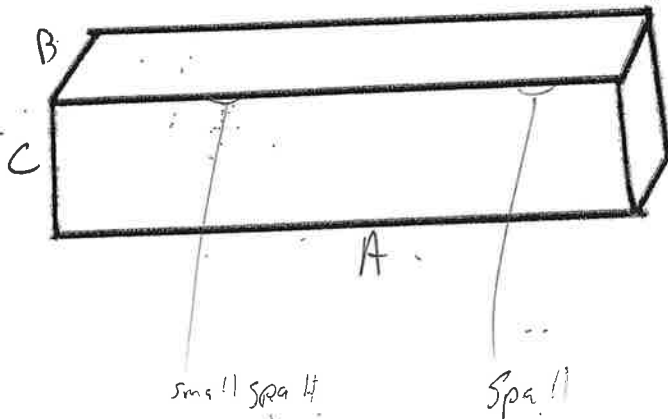
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/MM/13

SKETCH



Stone ID No.
14CE

Location	Length (in)
Overall Dimensions	
A	99 7/8
B	16
C	5 3/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on tread
Small spall left side of nosing
Spall right side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

Miller
(Print)

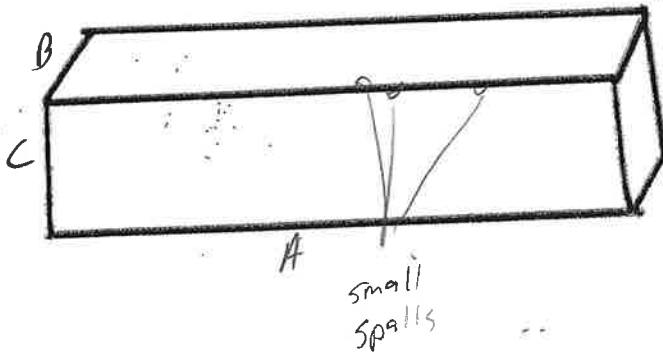
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 12/PP/13

SKETCH



Stone ID No.
14CW

Location.	Length (in)	
Overall Dimensions		
A	9 1/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Surface Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Heavy saw marks on front
Rough wearing along nosing
3 small spalls on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

(Print)

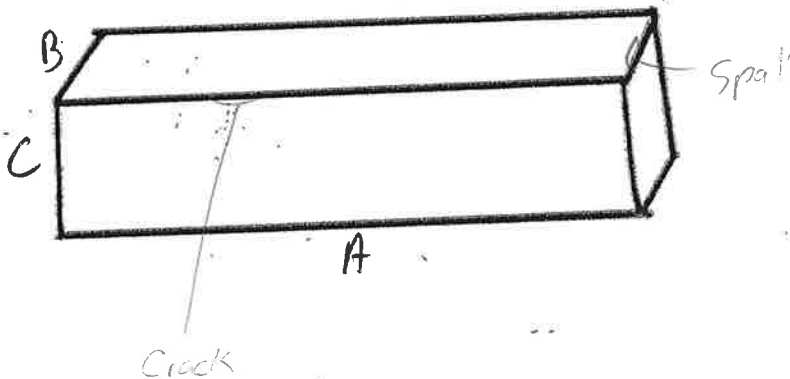
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/M/1/4

SKETCH



Stone ID No.
14EE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	14
C	5 1/2
Joint Lines	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Crack on nosing left side
Spall right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____
Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]
To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-2-22

WBP/GSD Representative:

(Print)

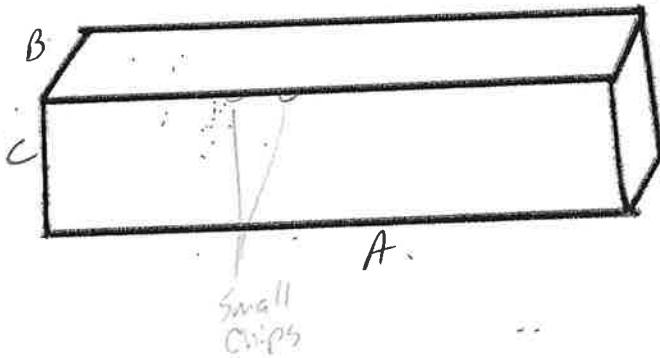
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Date: 9-2-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D14P16

SKETCH



Stone ID No.
14EW

Location.	Length (in)	
Overall Dimensions		
A	17 1/2	
B	16	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Finish Details		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
2 small chips on nosing left side

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 6 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Cliff
(Print)

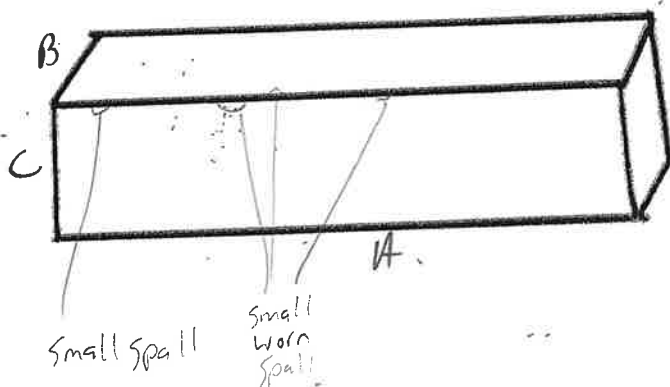
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Date: 9-20-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing DINN

SKETCH



Stone ID No.

14GE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall left side of nosing near corner
3 Small worn spalls on nosing; 2 left of center, 1 right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WEP/GSD Representative:

(Print)

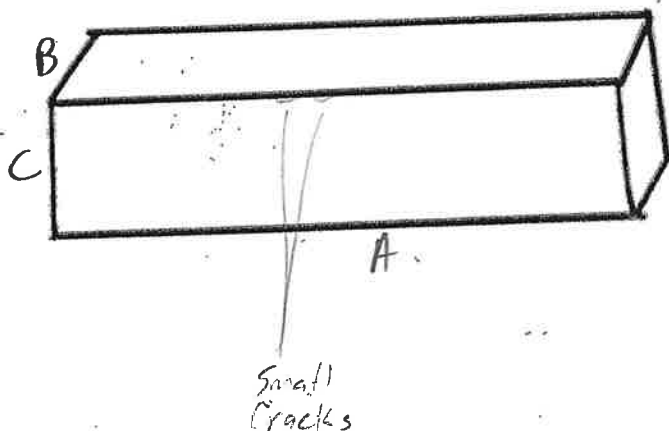
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1PP/1

SKETCH



Stone ID No.

14GW

Location	Length (in)	
Overall Dimensions		
A	97 7/8	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
2 small cracks on nosing left of center

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 3 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chilla
(Print)

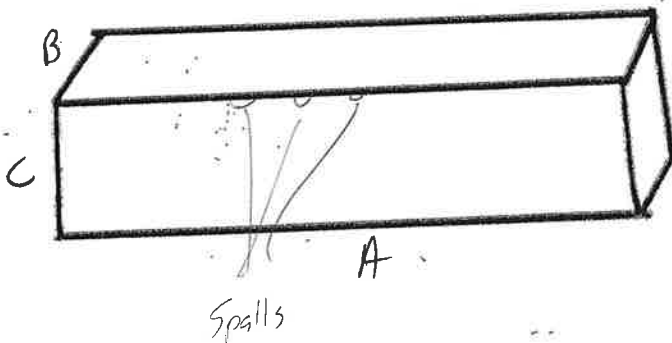
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/MN/12

SKETCH



Stone ID No.
14JE

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Small spalls along casing

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 3 [in^3]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

D.M.N.
(Print)

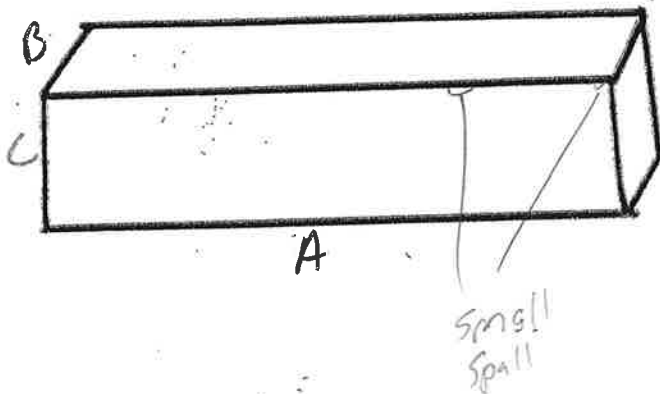
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Date: 9-22-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D10014

SKETCH



Stone ID No.
143W

Location.	Length (in)	
Overall Dimensions		
A	97 1/8	
B	16 1/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
2 small spalls on nosing right side + near right corner

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

(Print)

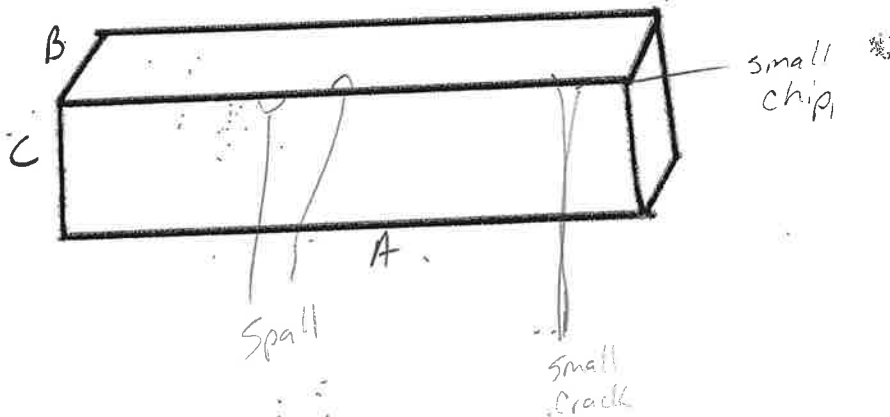
(Signed)

Date: 9-22-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing D.I.N.N./3

SKETCH



Stone ID No.
14LE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16 1/8
C	5 1/2
Minor Damage	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Major Damage	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 spalls on nosing; center + left of center
2 small cracks at nosing on right side
small chip on corner
Saw marks across tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

(Print)

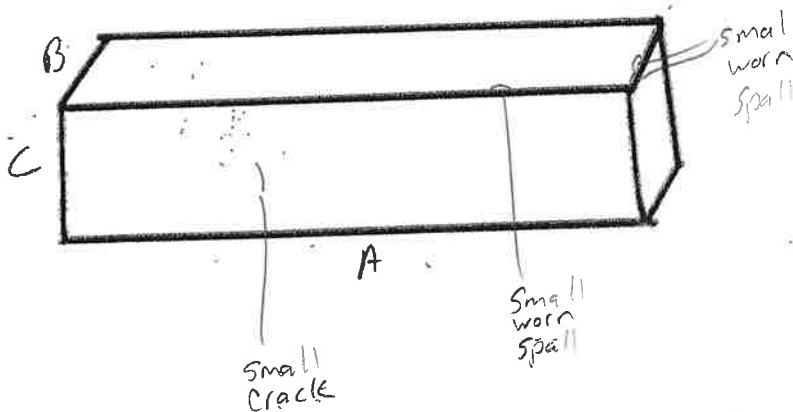
(Signed)

Date: 9-26-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D10013

SKETCH



Stone ID No.
14LW

Location.	Length (in)	
Overall Dimensions		
A	97 7/8	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small crack face of riser left side
Small worn spall nosing right side
2 Small worn spalls right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch) No
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

(Print)

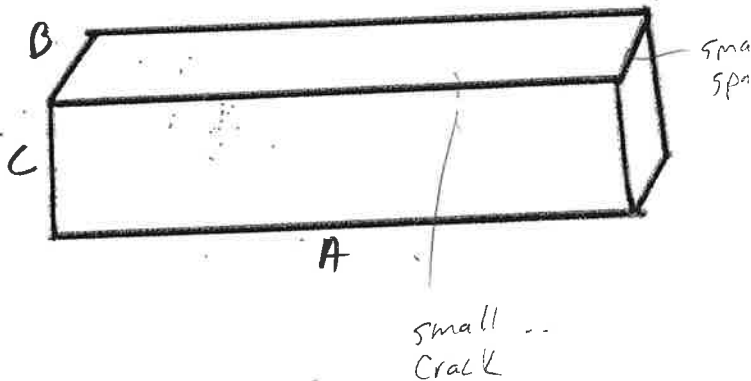
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Date: 9-22-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1NN/4

SKETCH



Stone ID No.
14NE

Location	Length (in)
A	97 1/4
B	16
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

saw marks across tread
small crack on nosing right side
small spall right joint on tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

(Print)

(Signed)

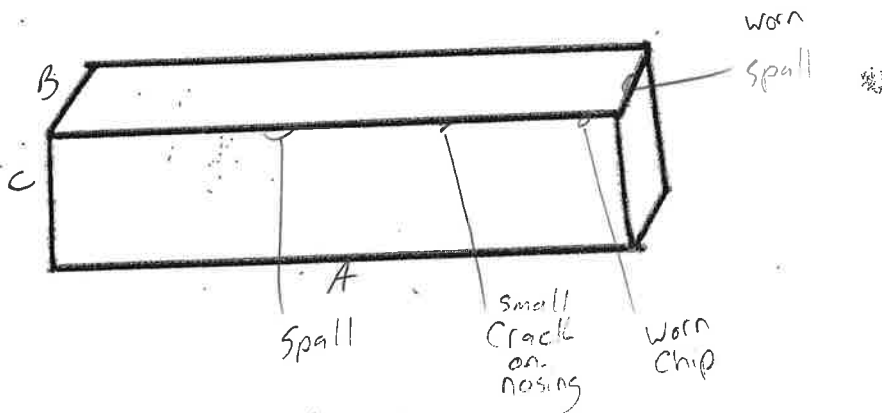
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D10012

Stone ID No.
14NW

SKETCH



Location	Length (in)
Overall Dimensions	
A	9 7/8
B	16 1/8
C	5 3/8
Weathering	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Weathering	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Spall on nosing left of center
Small crack on nosing right side
Small worn chip on nosing right side near corner
Worn spall on right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chilla
(Print)

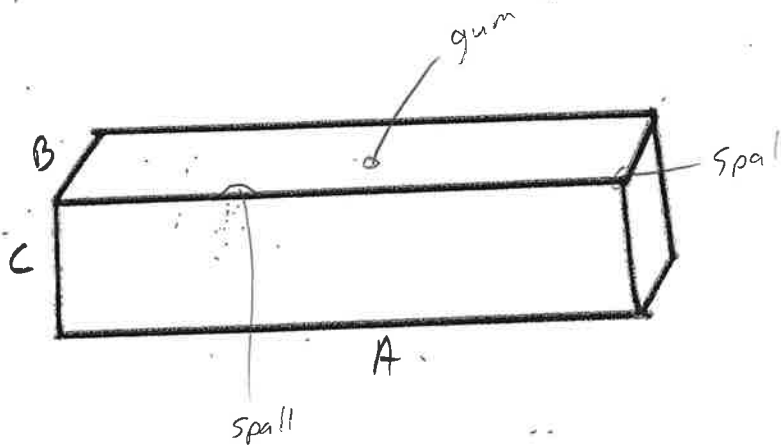
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 010011

SKETCH



Stone ID No.

14Q

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Joint Lines	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Joint Lines	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on nosing left side
gum spot on tread near center
Spall on corner front right of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0.7 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WBP/GSD Representative:

(Print)

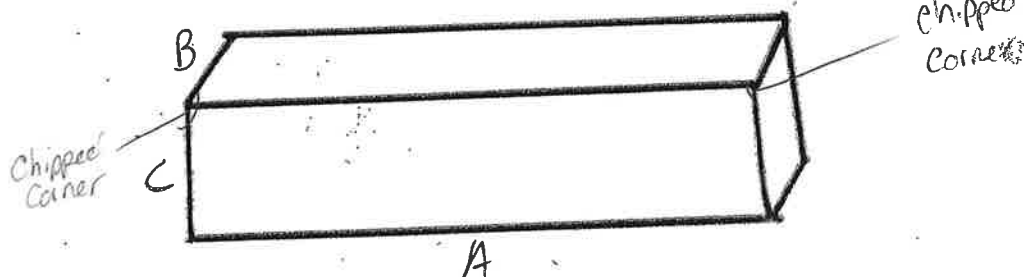
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 0/55/11

SKETCH



Stone ID No.

15BE

Location	Length (in)	
Overall Dimensions		
A	50 1/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corners top right + left of riser

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

(Print)

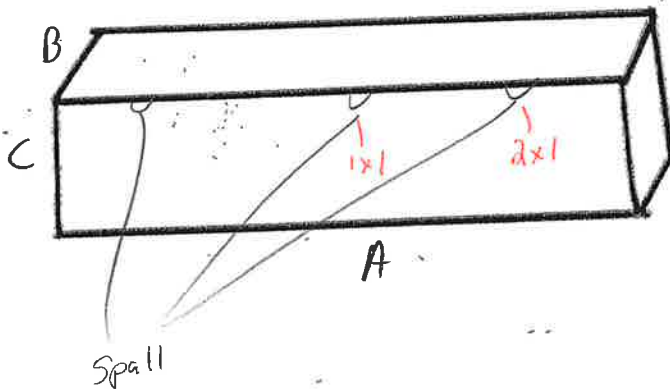
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Date: 9-25-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 01MM/2

SKETCH



Stone ID No.

15BW

Location	Length (in)
Overall Dimensions	
A	50 1/4
B	14
C	5 1/2 50K
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
3 Spalls along nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 3 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

(Print)

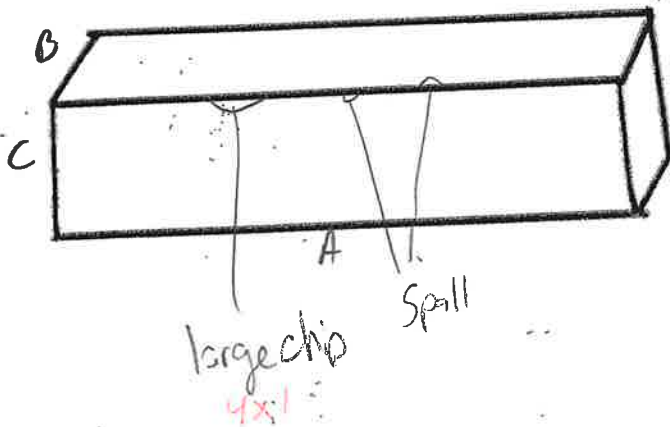
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D122 12

SKETCH



Stone ID No.
15DE

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	14	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Sawmarks across tread
Large chip on nosing/ciser face left side
Spall on nosing center

Stone cleaning recommended: Minor Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 4 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

(Print)

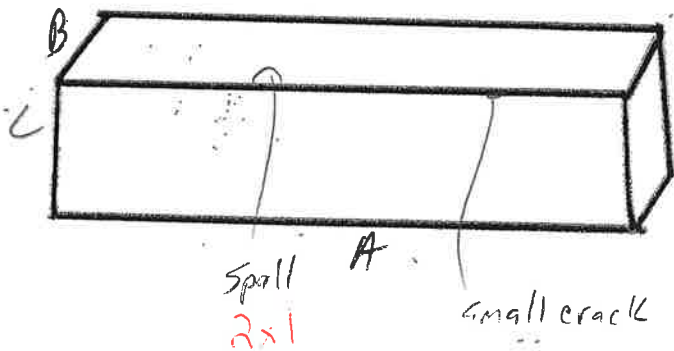
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing D/M/M/1

SKETCH



Stone ID No.

15DW

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	1 1/2
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on right side of tread
Spall on nosing left side
Small crack on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-6-22

WEP/GSD Representative:

(Print)

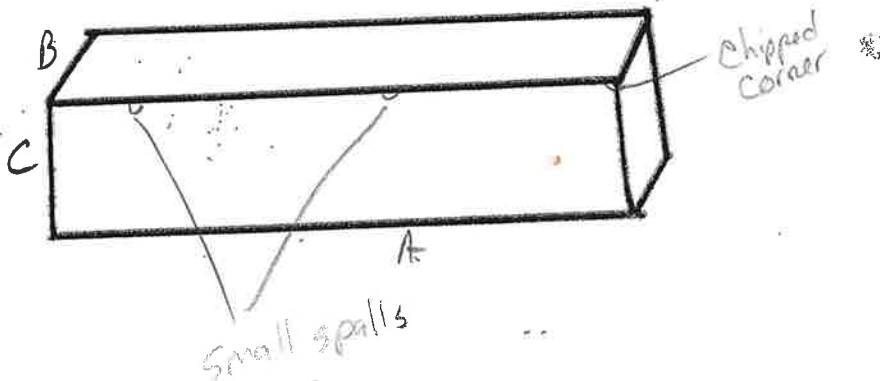
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing R.15573

SKETCH



Stone ID No.
15FE

Location	Length (in)
Overall Dimensions	
A	97 ³ / ₄
B	16
C	5 ³ / ₈
Mortar Joints	
	Left Right
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Chipped corner top right OR riser
2 small spalls on nosing; left side + right of center

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 8 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Civil
(Print)

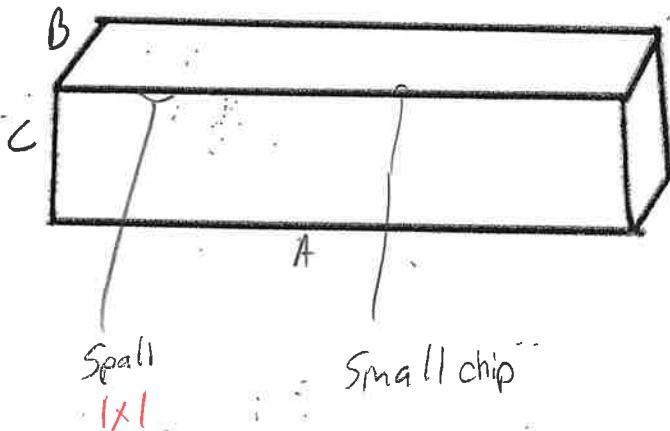
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L14

SKETCH



Stone ID No.
15FW

Location.	Length (in)	
Overall Dimensions		
A	17 3/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on nosing left side
Small chip on nosing right of center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0.1 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

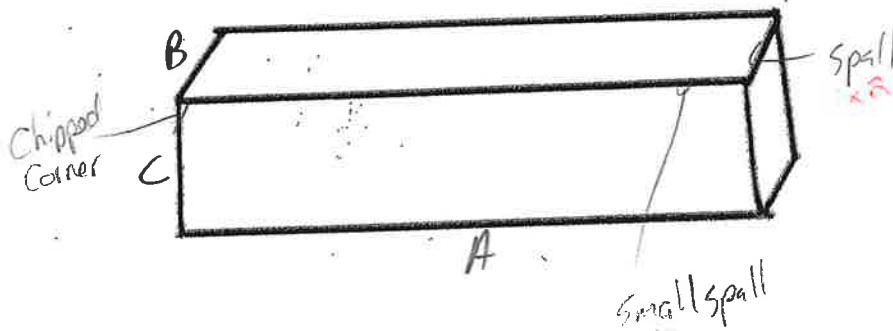
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 9-6-22

WDP/GSD Representative: Willan (Print) [Signature] (Signed) Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/55/4

SKETCH



Stone ID No.
15HE

Location	Length (in)
A	97 3/4
B	16
C	5 1/2
Minor Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Major Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks across tread
Chipped corner top left of riser
Small spall on nosing right side
Spall on right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Orilla
(Print)

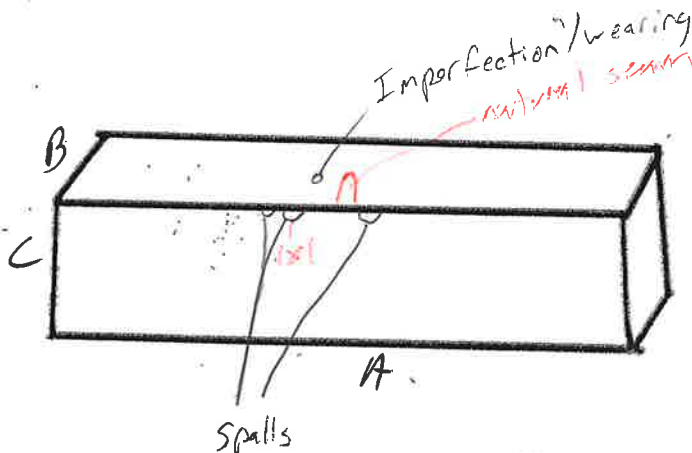
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Date: 9-10-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L/L/3

SKETCH



Stone ID No.
15HW

Location	Length (in)	
Overall Dimensions		
A	9 7/8	
B	16 1/8	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on right side of tread
2 spalls on nosing left of center
Spall on nosing right of center
Imperfection on tread starting to wear

• Stone cleaning recommended: ~~Minor~~ Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 1 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-6-22

WBP/GSD Representative:

Crilla
(Print)

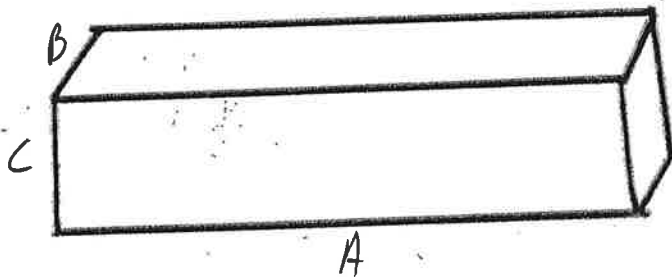
[Signature]
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/KK/1

SKETCH



Stone ID No.
15KE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2 5 3/4
Markings	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Markings	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks across tread
rough wear along nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

(Print)

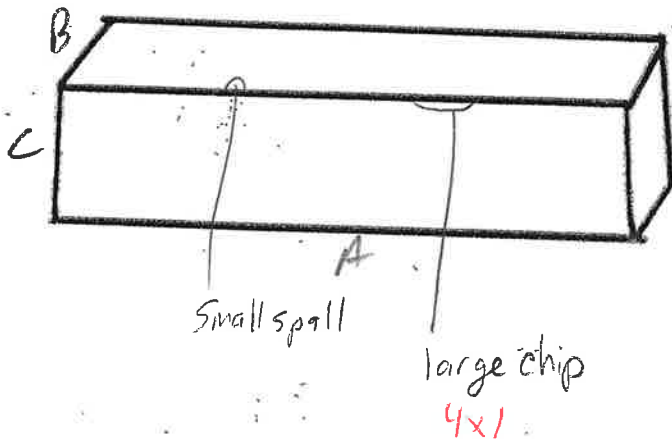
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/LL12

SKETCH



Stone ID No.
15KW

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/8 5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks right side of tread
Small spall on nosing left side
large chip on nosing right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 4 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-6-22

WBP/GSD Representative:

[Signature]
(Print)

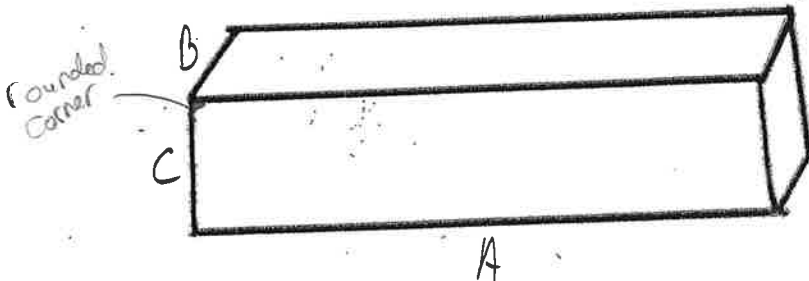
[Signature]
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DIKK/R

SKETCH



Stone ID No.

15ME

Location	Length (in)
Overall Dimensions	
A	77 1/2
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks across tread
Rounded corner top left of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

(Print)

Will

(Signed)

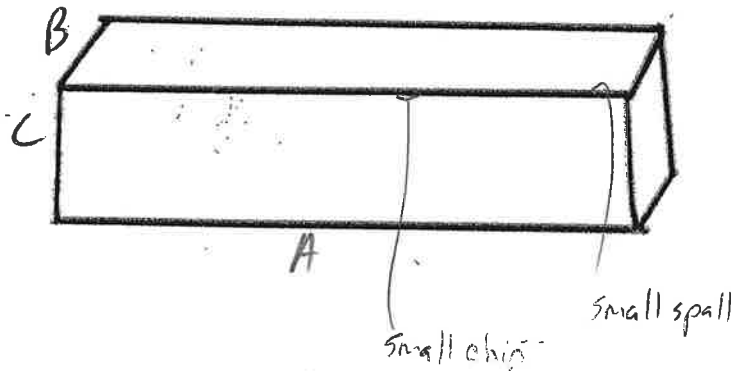
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1/L1/1

Stone ID No.
15MW

SKETCH



Location	Length (in)
Overall Dimensions	
A	9 7/8
B	15 7/8
C	5 1/8
Minor Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks right side of tread
Small chip on nosing right side
Small spall on nosing right side

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

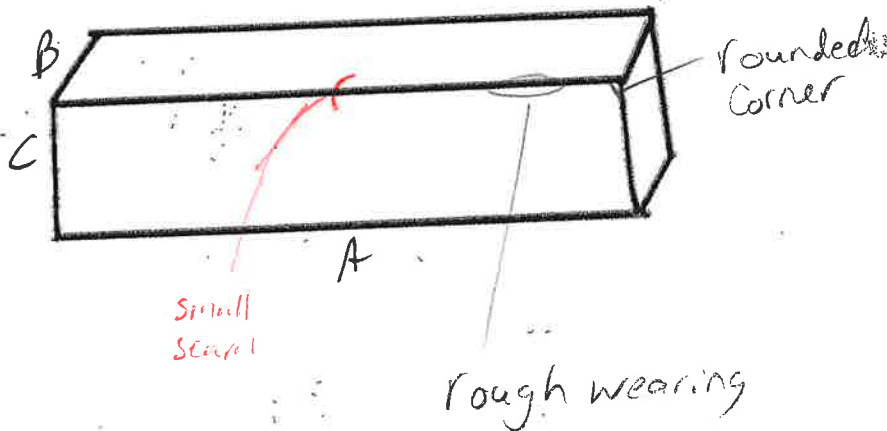
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 9-6-22

WEP/GSD Representative: CVL (Print) CVL (Signed) Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/KK/3

SKETCH



Stone ID No.
15PE

Location	Length (in)
Detail Dimensions	
A	9 7 3/4
B	16
C	5 5/8
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Measurements	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

rounded corner topright of riser
rough wearing right side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

(Print)

(Signed)

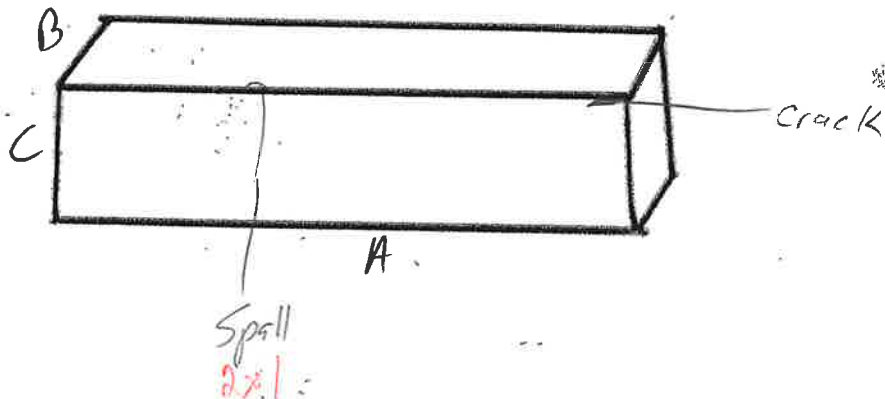
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D/KK/4

SKETCH



Stone ID No.

15PW

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	16 1/8
C	5 5/8
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks across tread
Spall on nosing/tread left of center
Crack on nosing at top right of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-6-22

WEP/GSD Representative:

(Print)

(Signed)

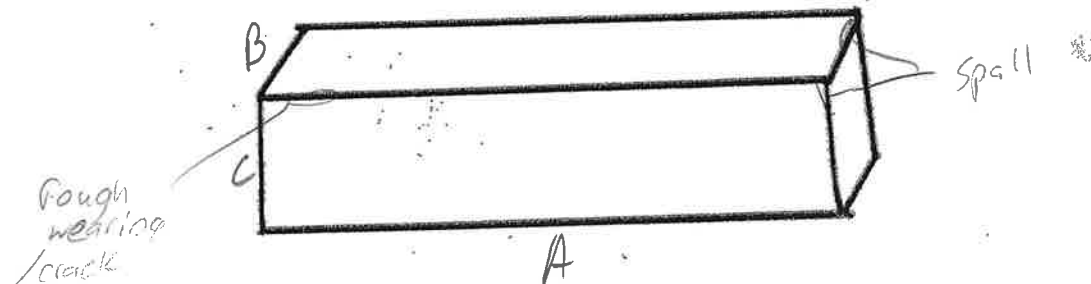
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PY2

SKETCH

Stone ID No.
16CE



Location.	Length (in)	
Overall Dimensions		
A	9 1/4	
B	1 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Rough wearing on nosing left side
Spall top right corner of riser
Spall right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Lehman
(Print)

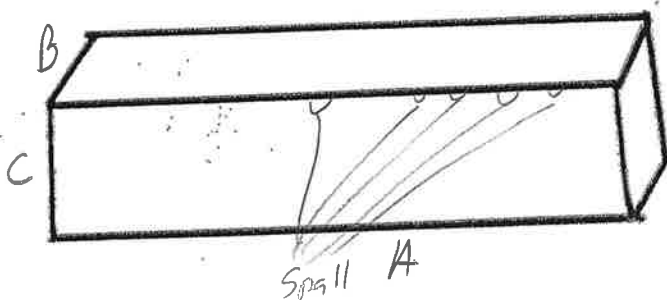
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DCC3

SKETCH



Stone ID No.
16CW

Location	Length (in)
Overall Dimensions	
A	9 1/8
B	15 7/8
C	5 3/4
Face	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Markings	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on tread
Spall on nosing left of center to right side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Chris Lehman
(Print)

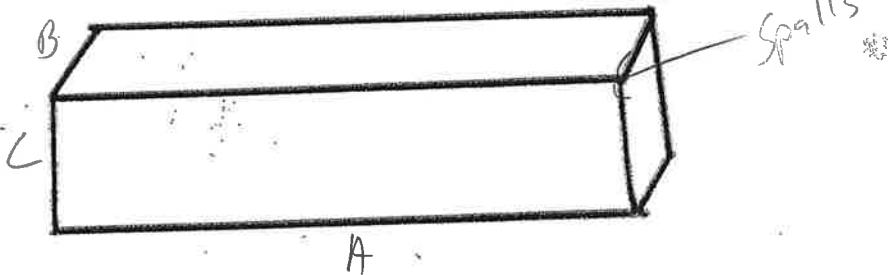
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DY3

SKETCH



Stone ID No.

14EE

Location	Length (in)	
Overall Dimensions		
A	97 1/4	
B	16	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks across tread
Spalling on top right corner of riser / front right corner of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Lehman
(Print)

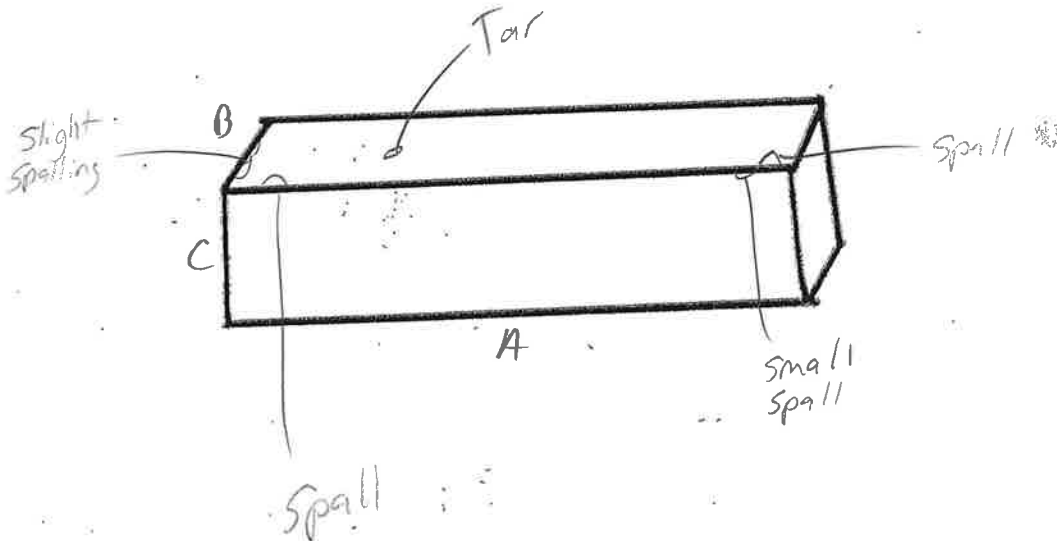
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DCC2

SKETCH



Stone ID No.

16EW

Location	Length (in)	
Overall Dimensions		
A	97 5/8	
B	16 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on tread
Spall on nosing left side / front left of tread
Tar spot on tread left side
2 Small Spalls on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Lehman
(Print)

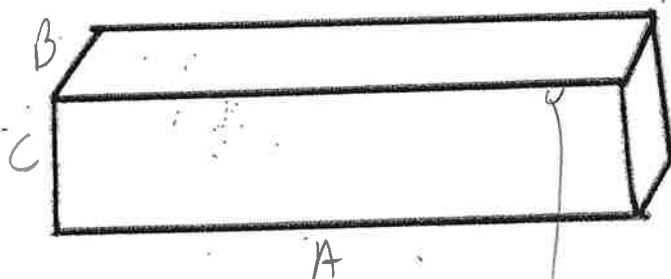
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DY4

SKETCH



wearing pit

Stone ID No.

16GE

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	11	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Worn spot/pit right side of nosing/riser face

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Pham
(Print)

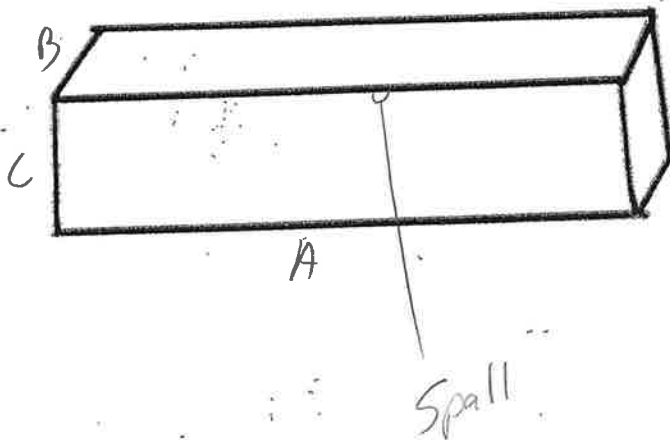
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DCC1

SKETCH



Stone ID No.

16GW

Location	Length (in)	
Overall Dimensions		
A	17 3/4	
B	15 3/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread right side / Heavy at right front of tread.
Spall on nosing right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Lehman
(Print)

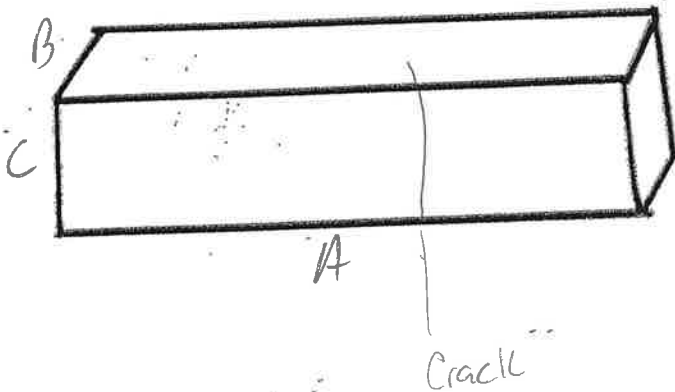
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D21

SKETCH



Stone ID No.

16JE

Location.	Length (in)	
Overall Dimensions		
A	27 3/4	
B	14	
C	5 1/2	
Mortar Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Crack/patch left of center on tread running down inner face

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

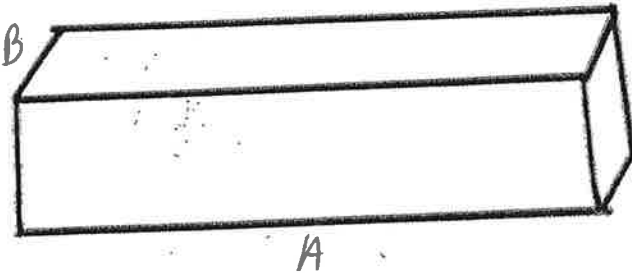
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 0882

SKETCH

Stone ID No.

143W



Location.	Length (in)	
Overall Dimensions		
A	97 3/4	
B	15 3/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks on tread

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Chris Lehman
(Print)

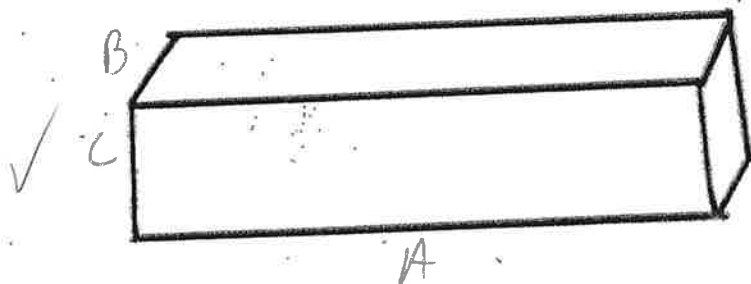
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 022

SKETCH



Stone ID No.

166E

Location.	Length (in)	
Overall Dimensions		
A	9 7/4	
B	15 3/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Chris Lehman
(Print)

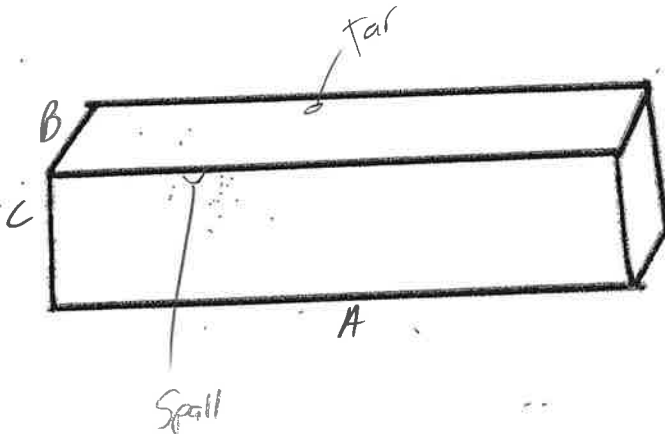
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 08B1

SKETCH



Stone ID No.

16LW

Location	Length (in)	
Overall Dimensions		
A	97 1/8	
B	15 3/4	
C	5 1/2	
Left		Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on nosing left side
Tar spot on tread at back joint near center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Chris Lehman
(Print)

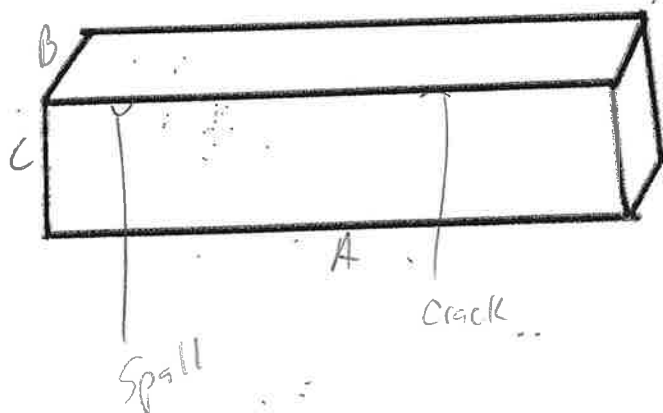
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 023

SKETCH



Stone ID No.

16NE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on nosing left side
Crack on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Lehman
(Print)

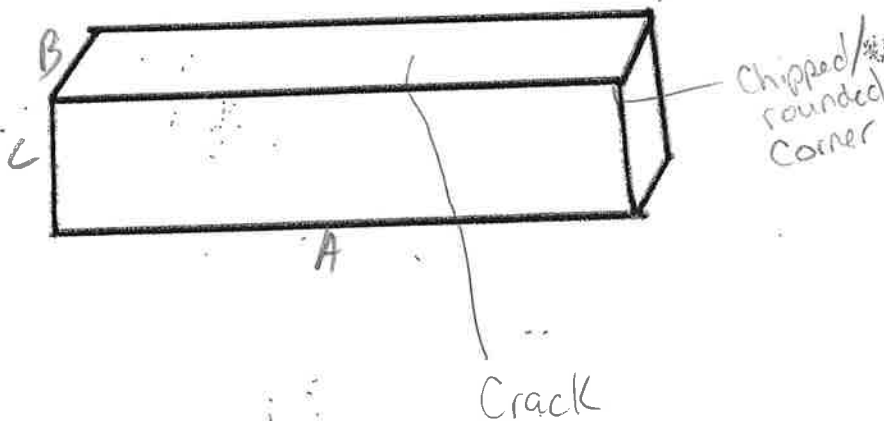
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DAA2

SKETCH



Stone ID No.
16NW

Location	Length (in)
Default Dimensions	
A	9 7/4
B	15 1/8
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Crack on tread right of center running down riser face
Chipped/rounded corner top right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Lehman
(Print)

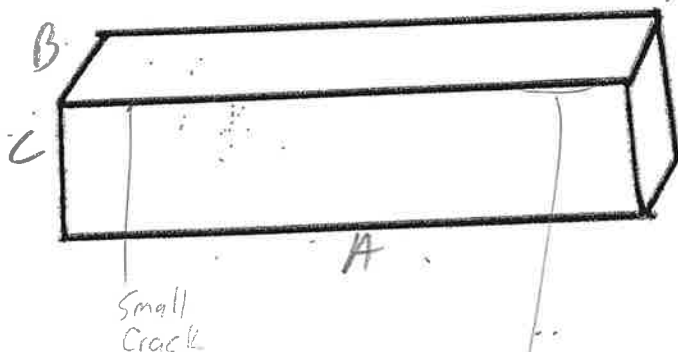
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing OAA1

SKETCH



Stone ID No.

16Q

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Material Details	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Orientation	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small crack on nosing left side
Rough wearing on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Lehman
(Print)

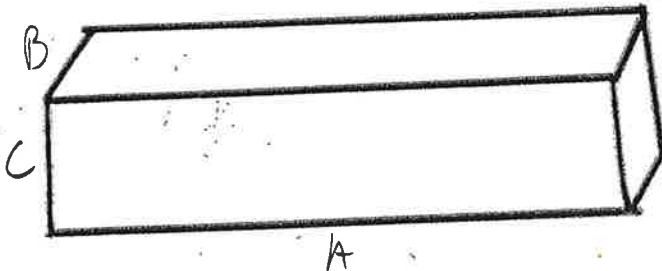
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/LW/12

SKETCH



Stone ID No.

17BE

Location	Length (in)	
Overall Dimensions		
A	50 1/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WEP/GSD Representative:

(Print)

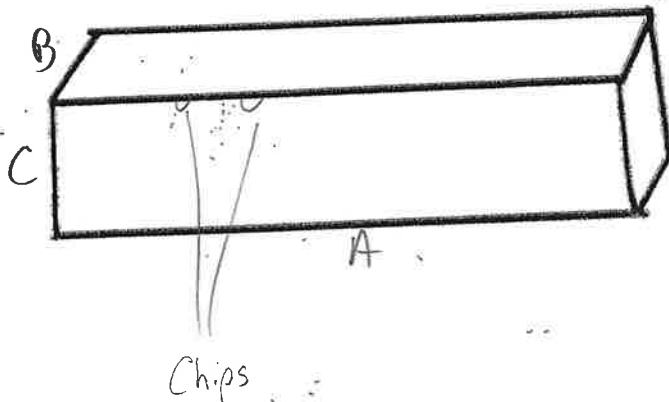
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/Y/1

SKETCH



Stone ID No.
17BW

Location	Length (in)	
Overall Dimensions		
A	50 1/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
2 chips on left side of nosing

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Crill
(Print)

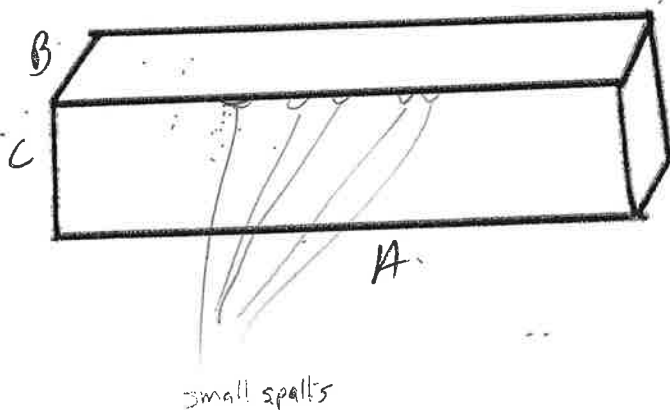
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/W13

SKETCH



small spalls

Stone ID No.
17DE

Location	Length (in)
A	97 3/4
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Small spalls along nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Criller
(Print)

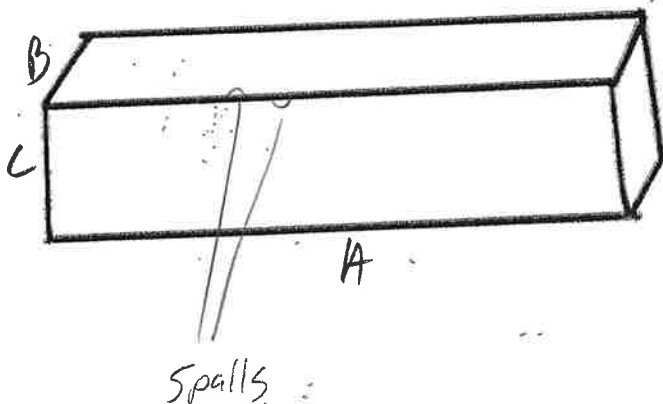
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/X/6

SKETCH



Stone ID No.
17DW

Location	Length (in)
Overall Dimensions	
A	17 1/4
B	1 1/4
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on tread
2 spalls left of center on nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Criller
(Print)

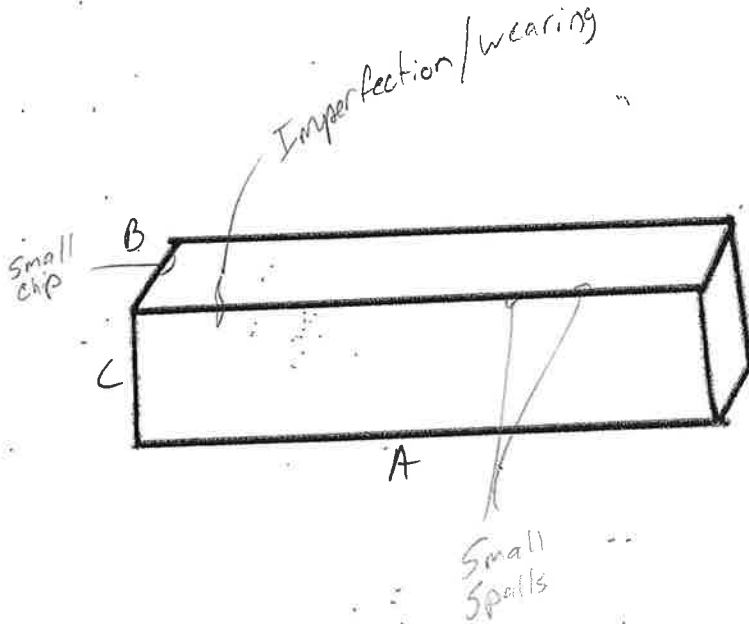
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1W14

SKETCH



Stone ID No.
17FE

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on tread
Small chip left joint of tread
Imperfection wearing left front of tread / top left of riser
Small spalls on rising right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chiller
(Print)

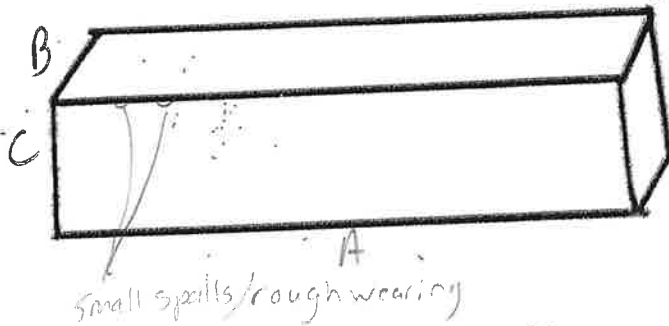
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1X15

SKETCH



Stone ID No.
17FW

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Small spalls or rough wear far left of nosing

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Willie
(Print)

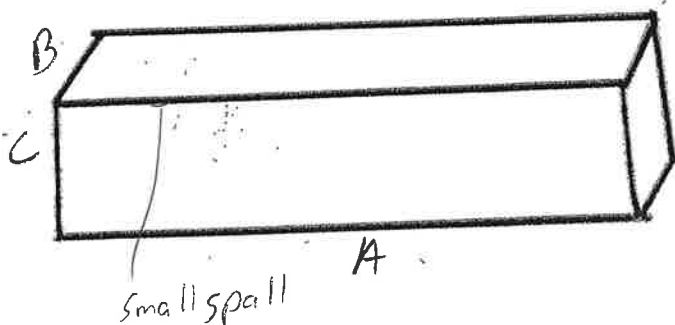
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D16/15

SKETCH



Stone ID No.
17HE

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	1 1/2
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
small spall on nosing left side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

(Print)

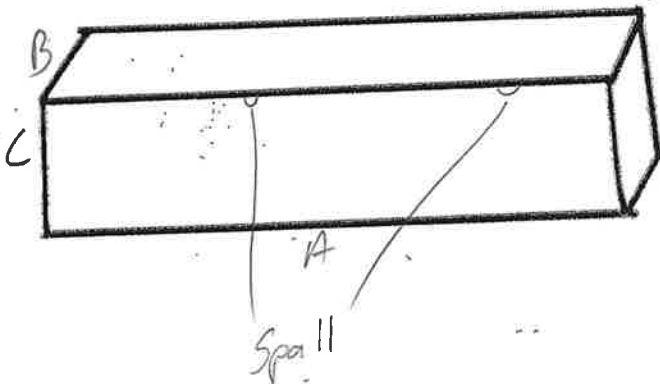
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D12/4

SKETCH



Stone ID No.
17HW

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	11 1/2	
C	5 1/2 5 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on tread
Spall on nosing left side
Spall on right of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 3 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Criller
(Print)

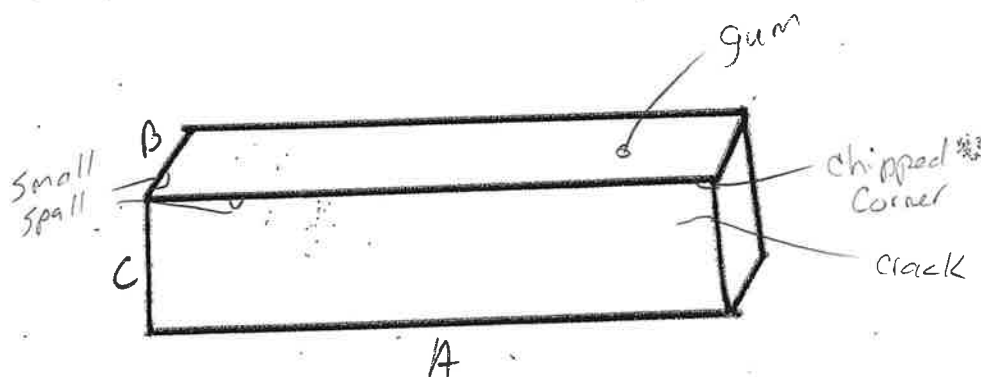
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Date: 9-30-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1W16

SKETCH



Stone ID No.
17KE

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	1 1/2
C	5 1/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks across tread
Small spall front of left joint of tread
Small spall left side of nosing
Chipped corner top right of riser
Gum spot right side of tread
Crack on right head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WEP/GSD Representative:

(Print)

(Signed)

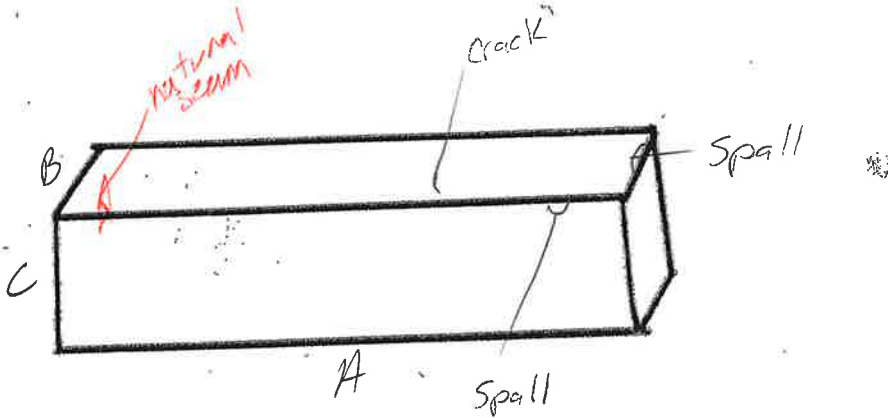
Date: 9-20-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing D/A/3

Stone ID No.
17KW

SKETCH



Location	Length (in)
Overall Dimensions	
A	17 3/4
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on right of nosing
Small crack on right side of tread
Spall right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

(Print)

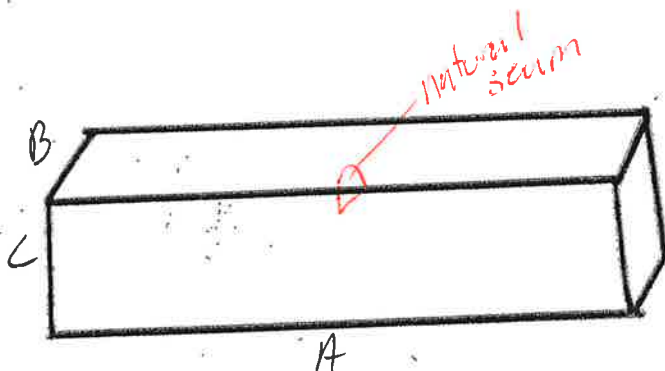
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1W17

SKETCH



Stone ID No.
17ME

Location	Length (in)	
Overall Dimensions		
A	9 7/8	
B	16	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 3 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Willen
(Print)

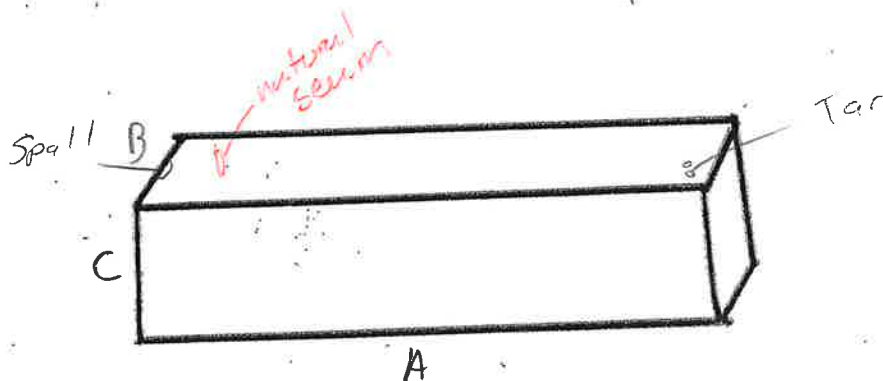
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/X/2

SKETCH



Stone ID No.
17MW

Location.	Length (in)	
Overall Dimensions		
A	97 3/4	
B	14	
C	5 1/2	
	Len	Width
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on left joint of tread
Tar spots front right of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

C. Miller
(Print)

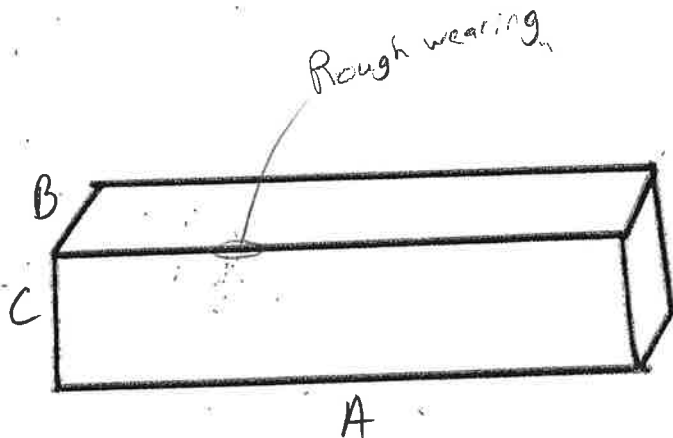
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/W/S

SKETCH



Stone ID No.

17PE

Location	Length (in)
Overall Dimensions	
A	77 1/4
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Measurements	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rough wearing along nosing left side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Will
(Print)

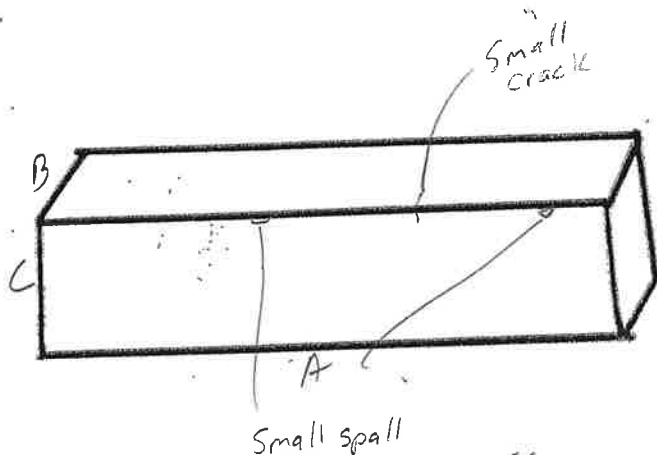
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/X/1

SKETCH



Stone ID No.
17PW

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall on nosing left side
Small spall/pit on nosing right side
Small crack front right of tread running down onto riser top right

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

C. Miller
(Print)

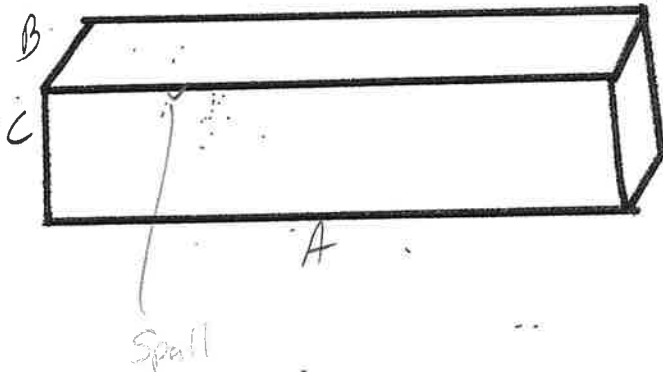
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D10/5

SKETCH



Stone ID No.
18CE

Location	Length (in)	
Overall Dimensions		
A	9 1/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on nosing left side
Saw marks on tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

(Print)

(Signed)

Date: 9-06-22

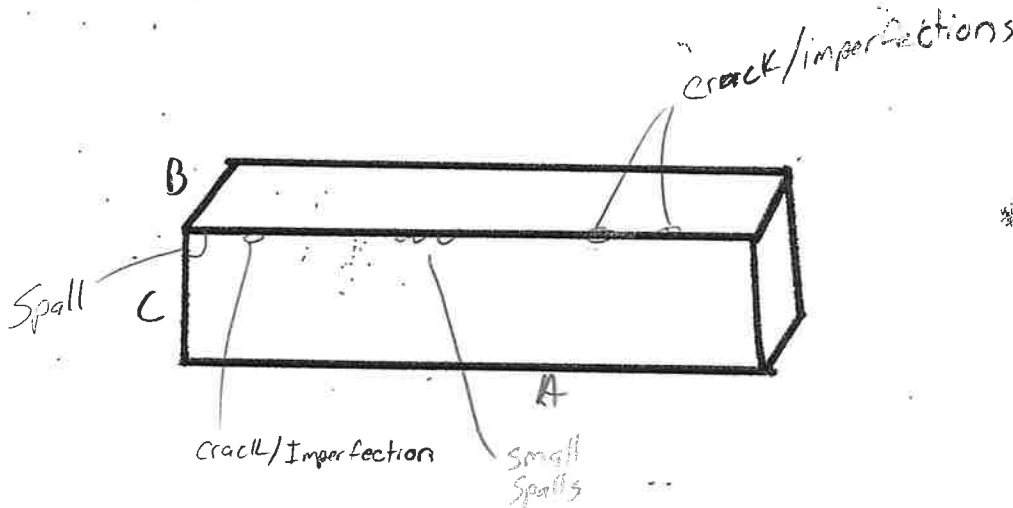
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1/D11

SKETCH

Stone ID No.

18CW



Location	Length (in)
Overall Dimensions	
A	9 1/2
B	1 1/4
C	5 1/8
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Material	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on top left corner of riser
Crack/Imperfection left side of nosing
3 small spalls left of center on nosing
2 cracks/imperfections right side of nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 9 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chiller
(Print)

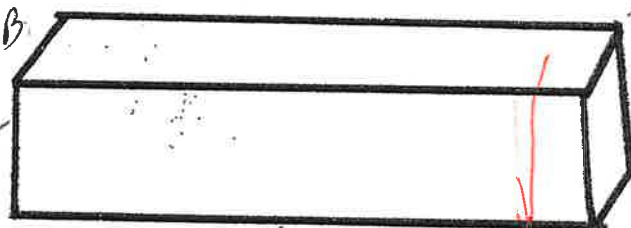
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1016

SKETCH



Stone ID No.

18EE

Location	Length (in)	
Overall Dimensions		
A	97 5/8	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Sawmarks on tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Quillen

(Print)

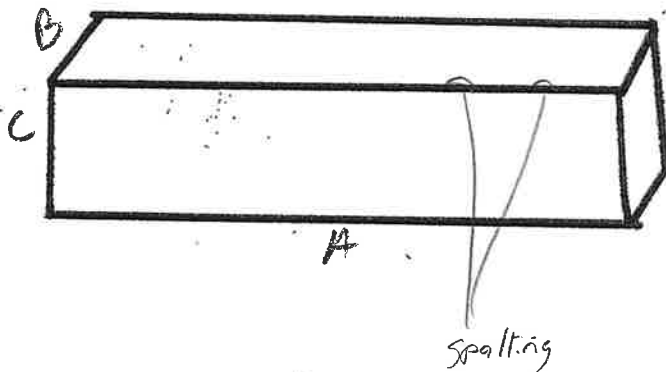
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1.17

SKETCH



Stone ID No.
18EW

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	14
C	5 1/8
Material Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Material Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spalling on right side of nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative: Chris

(Print)

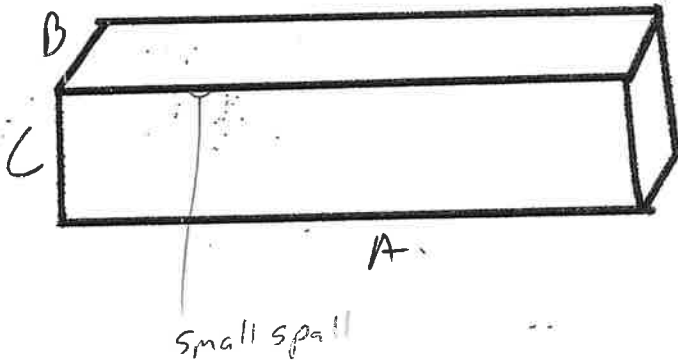
(Signed)

Date: 9-6-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 010/7

SKETCH



Stone ID No.
18GE

Location	Length (in)
Overall Dimensions	
A	17 5/8
B	16
C	5 3/8
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Material	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks on tread
Small spall on nosing left side

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 3 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

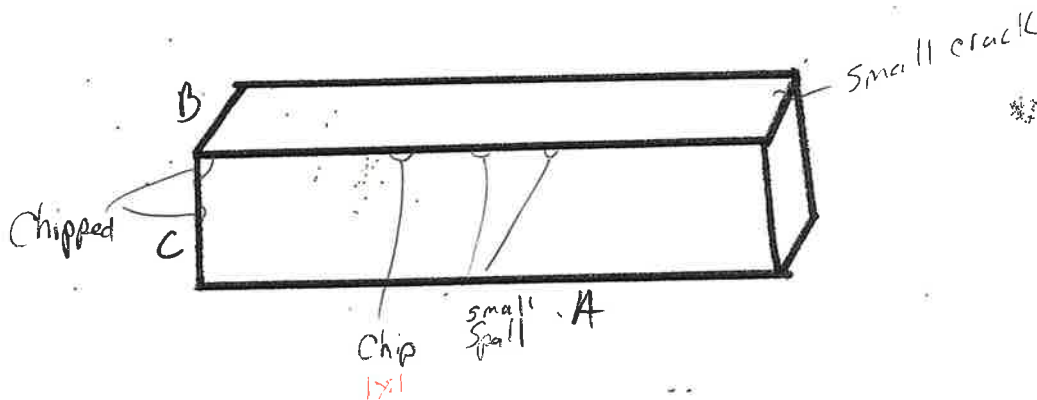
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- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 9-6-22
WDP/GSD Representative: [Signature] (Print) [Signature] (Signed) Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1V16

SKETCH



Stone ID No.

18GW

Location	Length (in)
Overall Dimensions:	
A	9 7/8
B	16
C	5 3/8
Mortar Joints:	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints:	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chips on left & head joint of riser + top left corner of riser
Chip on nosing left side
25 small spalls on nosing left of center + right of center
Small crack on back of right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair: _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Willie
(Print)

(Signed)

Date: 9-20-20

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D10/8

SKETCH

Stone ID No.

18 JE

Location	Length (in)
Overall Dimensions	
A	97 1/4
B	16
C	5 3/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	



Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 small spalls left head joint of riser
small spalls along nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Chiller
(Print)

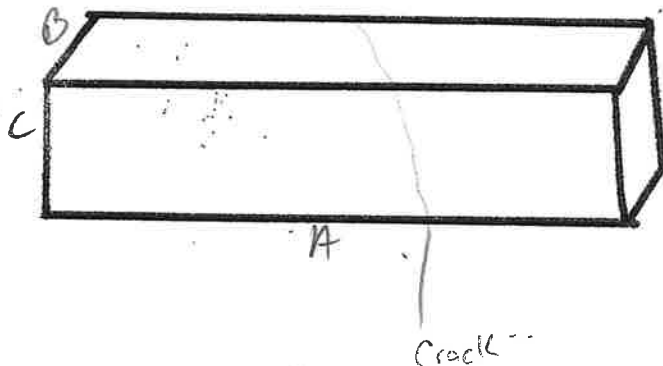
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 01/1/5

SKETCH



Stone ID No.

18 JW

Location	Length (in)	
Overall Dimensions		
A	97 1/2	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks back center of tread & right side
Crack from back joint of tread wrapped around to heel joint of right

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

(Print)

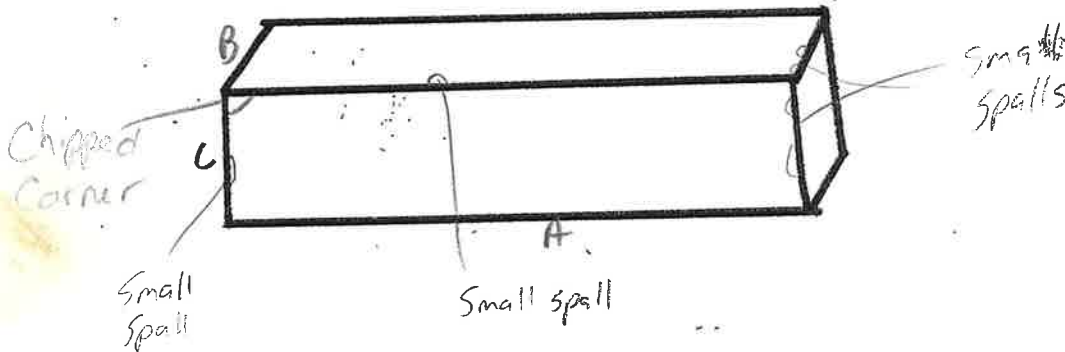
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Date: 9-22-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing 01/01/9

SKETCH



Stone ID No.

18LE

Location	Length (in)
Overall Dimensions	
A	98
B	16
C	57/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Chipped corner top left of riser
Small spall left head joint of riser
Small spall left side of nosing
Small spalls/stone imperfections right head joint of riser + right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Cull
(Print)

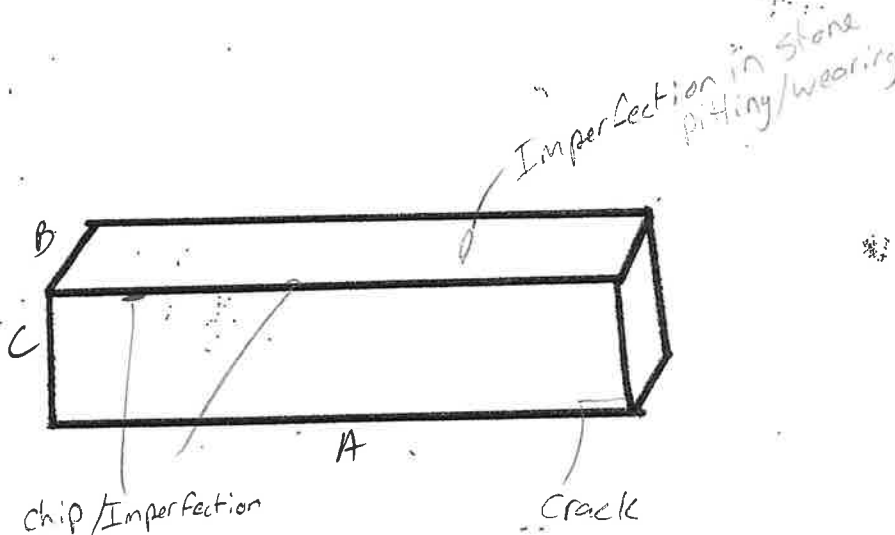
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Date: 9-22-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing 01/1/1

SKETCH



Stone ID No.

18LW

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Material	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 imperfections/chips on left side of nosing
Imperfection in stone on right of tread is starting to wear/pit
Small crack bottom right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Cliff
(Print)

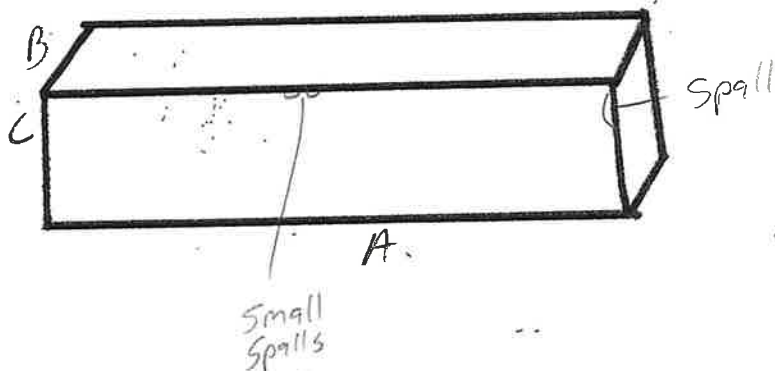
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D7/VII

SKETCH



Stone ID No.
18NE

Location.	Length (in)	
Overall Dimensions		
A	97 1/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Small spalls on nosing left of center
Spall on right head joint near top

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Crilla
(Print)

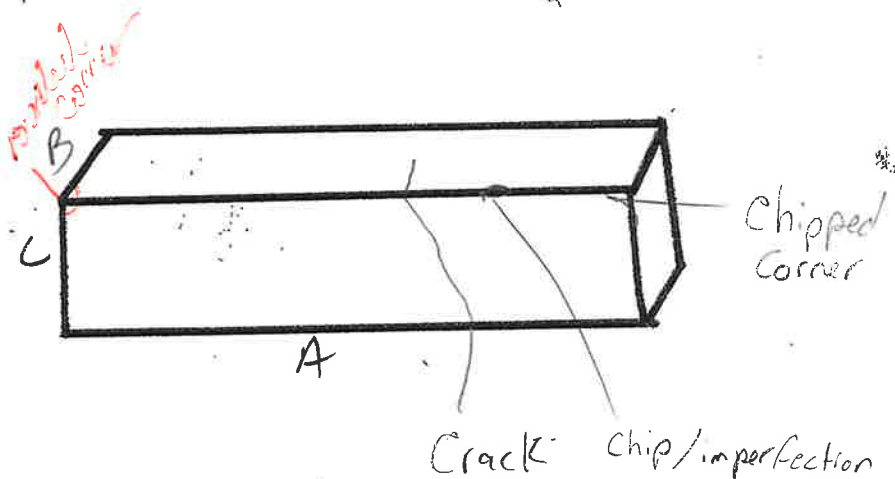
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing CPV13

SKETCH



Stone ID No.
18NW

Location.	Length (in)	
Overall Dimensions		
A	97 1/4	
B	16	
C	5 3/8	
Material		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Material		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack right of center on tread running to front + down
face of riser

Chip/Imperfection on nosing right side

Chipped corner top right of riser; rounded

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 3 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Clilla
(Print)

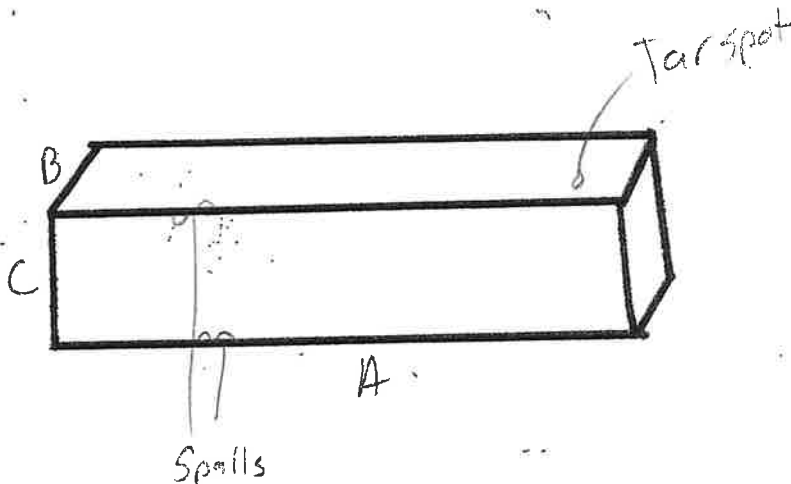
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D14/12

SKETCH



Stone ID No.

18Q

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 spalls on left side of nosing
2 small spalls on left side of bed joint
Tar spots on right side of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Q. 116
(Print)

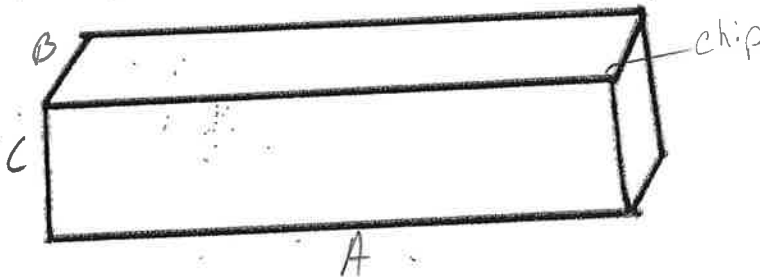
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Date: 9-20-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing DSS

SKETCH



Stone ID No.
19BE

Location	Length (in)	
Overall Dimensions		
A	50 1/4	
B	14	
C	5 1/8	
Detail Dimensions		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Damage		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Chipping on corner right front of tread

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist
☒ Photographed prior to removal
☒ Add building reference points for existing location
☐ Existing conditions prevent removal per rigging plan
☒ Photographed after removal
☒ Documentation of areas to be patched
☒ Labeled with Stone ID
☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

Chris Lehman
(Print)

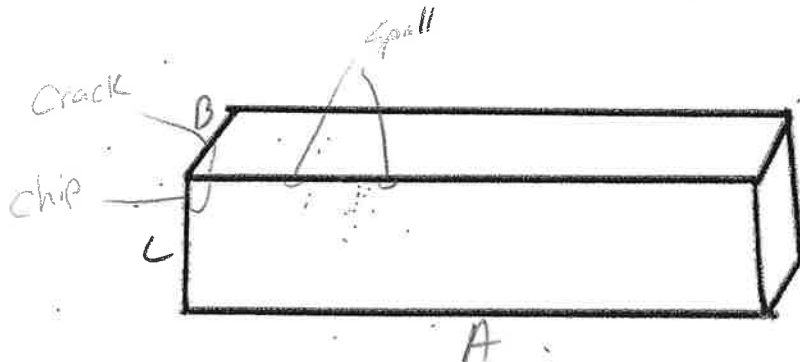
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D44

SKETCH



Stone ID No.
19BW

Location	Length (in)	
Overall Dimensions		
A	50 1/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Damage		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Chip on top left corner of riser with crack extending off onto tread
- 2 spalls on nosing left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-6-22

WBP/GSD Representative:

Chris Lehman

(Print)

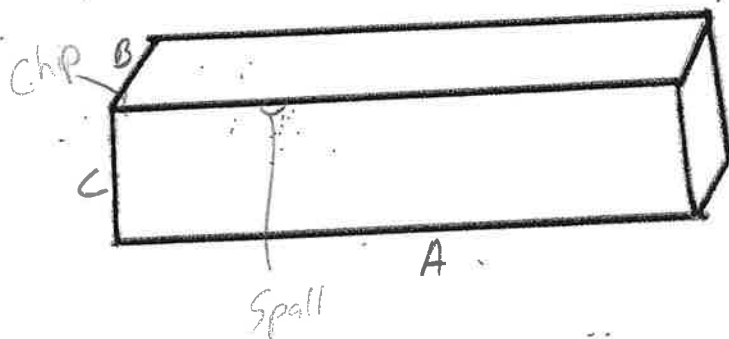
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DS6

SKETCH



Stone ID No.
19DE

Location	Length (in)	
Overall Dimensions		
A	9 7/8	
B	16	
C	5 1/8	
Face Dimensions		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Weathering		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Chipped corner left front of tread
Spall on nosing left side

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist
☒ Photographed prior to removal
☒ Add building reference points for existing location
☐ Existing conditions prevent removal per rigging plan
☒ Photographed after removal
☒ Documentation of areas to be patched
☒ Labeled with Stone ID
☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDF/GSD Representative:

Chris Lehman
(Print)

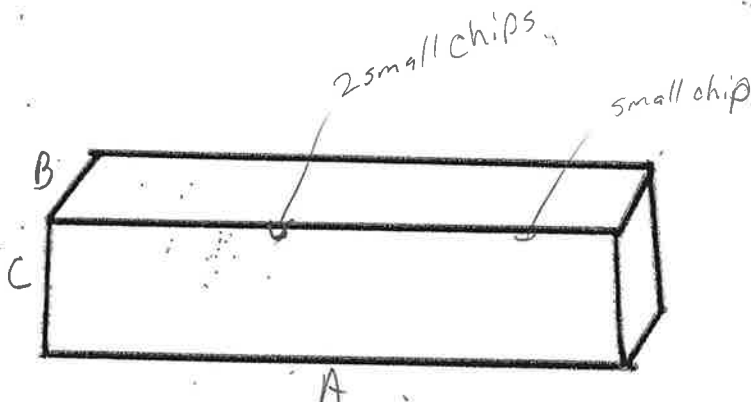
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D4.3

SKETCH



Stone ID No.

19DW

Location	Length (in)
Overall Dimensions	
A	77 5/8
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks along tread

3 small chips on nosing; 2 left of center, 1 right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9/6/22

WEP/GSD Representative:

Chris Lehman
(Print)

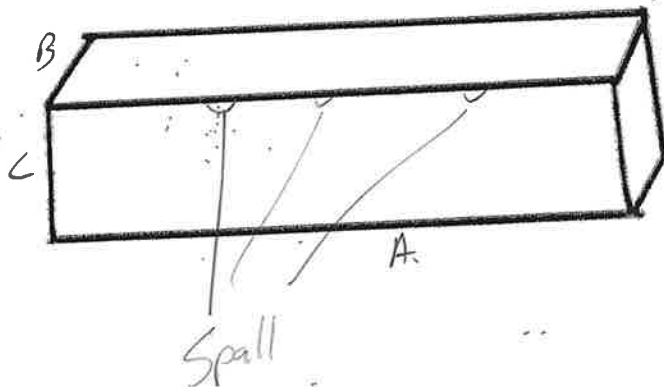
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DS7

SKETCH



Stone ID No.
19FE

Location.	Length (in)	
Overall Dimensions		
A	97 7/8	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
3 spalls along nosing; left, left of center, right
Scar marks on tread

• Stone cleaning recommended: Minor Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chris Lehman
(Print)

(Signed)

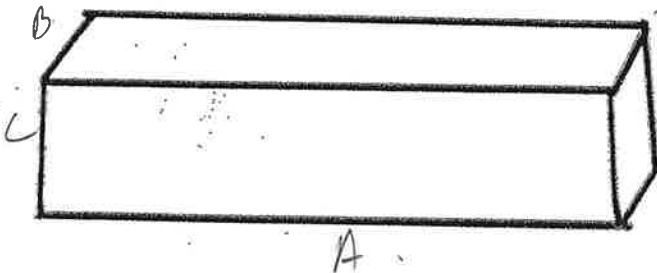
Date: 9/1/2022

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D4.2

SKETCH



Stone ID No.
19FW

Location	Length (in)	
Overall Dimensions		
A	9 7 5/8	
B	16	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks right side of tread

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WEP/GSD Representative:

Chris Lehman
(Print)

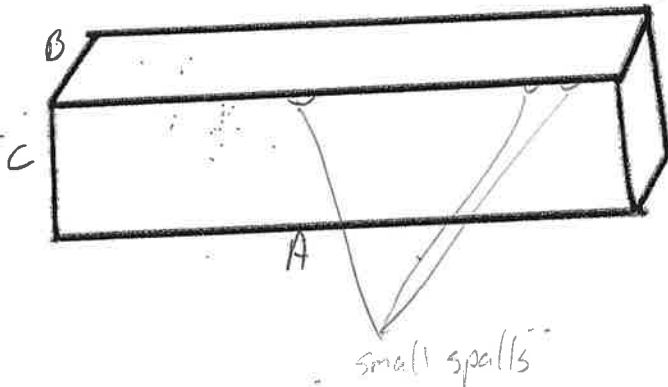
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing _____
Storage Drawing DT1

SKETCH



Stone ID No.
19HE

Location	Length (in)
Detail Dimensions	
A	97 3/4
B	14
C	53 1/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

small spalls along nosing
saw marks on tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chris Lehman
(Print)

(Signed)

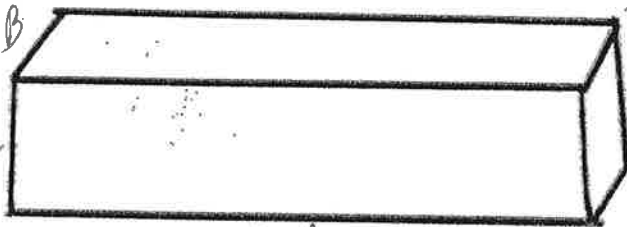
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D4.1

SKETCH

Stone ID No.
19HW



Location	Length (in)
Overall Dimensions	
A	17 3/4
B	16 1/8
C	5 3/8
Local	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Clemon
(Print)

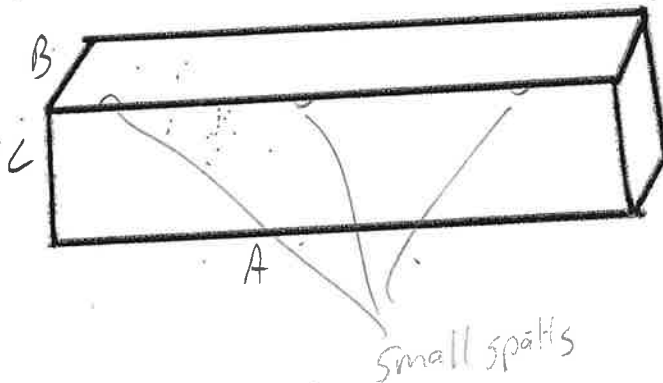
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DT2

SKETCH



Stone ID No.
19KE

Location	Length (in)
Overall Dimensions	
A	97 5/8
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Small spalls on nosing

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chwickman
(Print)

(Signed)

Date: 9/20/22

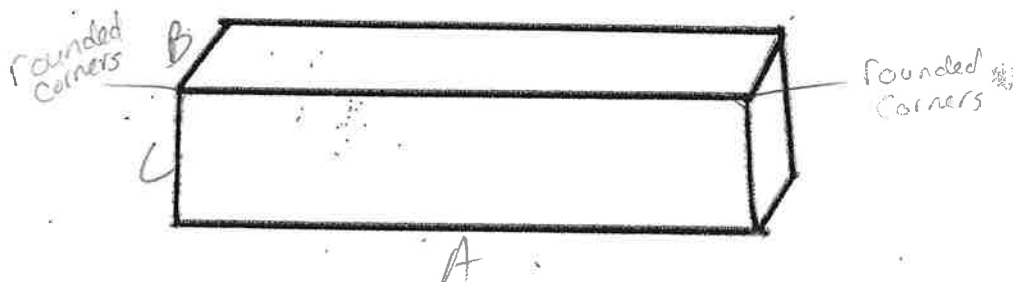
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DT-7

Stone ID No.

19KW

SKETCH



Location.	Length (in)	
Overall Dimensions		
A	17 5/8	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Rounded corners top right + left of riser; worn rounding

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Graham
(Print)

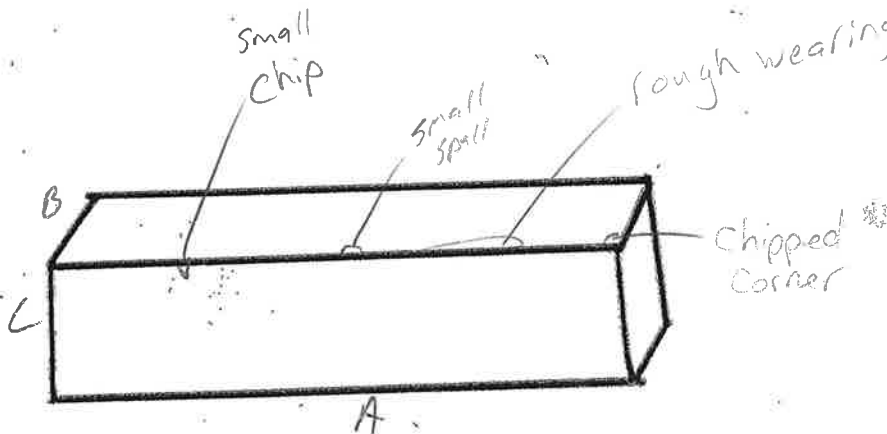
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DT3

SKETCH



Stone ID No.
19ME

Location	Length (in)
Overall Dimensions	
A	9 7/8
B	1 1/2
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Moisture	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chip on nosing left side
Small spall on nosing left of center
Rough wearing on right side of nosing
Saw marks along tread
Chipped corner right front to A lead

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chris Lehman
(Print)

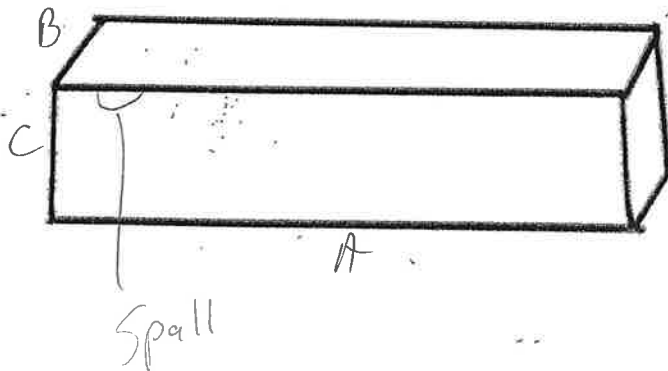
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(Signed)

Date: 9/24/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DTS

SKETCH



Stone ID No.
19MW

Location	Length (in)
Overall Dimensions	
A	57 1/4
B	16 1/8
C	5 1/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Spall left side of nosing/top left of riser face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 9-6-22

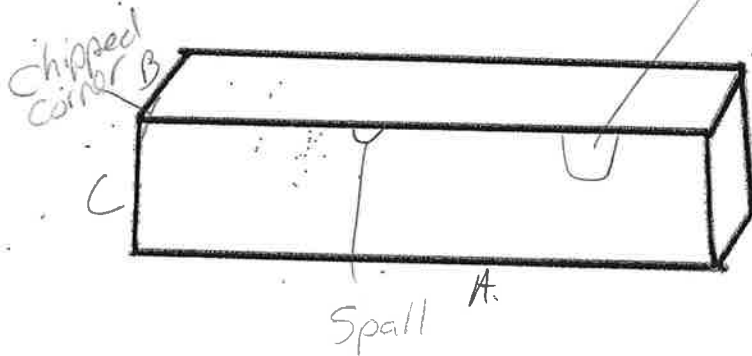
WDP/GSD Representative: Chris Lehman (Print) [Signature] (Signed) Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DT4

SKETCH

Stone ID No.
19PE



Location	Length (in)
Depth Dimensions	
A	9 7/8
B	1 1/4
C	5 1/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner left front of tread
Spall on nosing left side
Patch of Rough wearing on right side of riser face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-6-22

WEP/GSD Representative:

Chris Lehman
(Print)

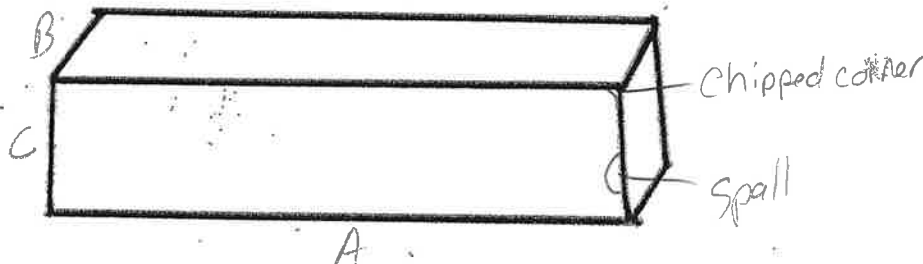
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DT5

SKETCH



Stone ID No.

19PW

Location	Length (in)
Detail Dimensions	
A	9 7/8
B	16
C	5 1/2
Mortar Joints	
	Left Right
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rough worn nosing
Spall right head joint of riser
Chipped/rounded corner top right of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-6-22

WDP/GSD Representative:

Chris Lhaman
(Print)

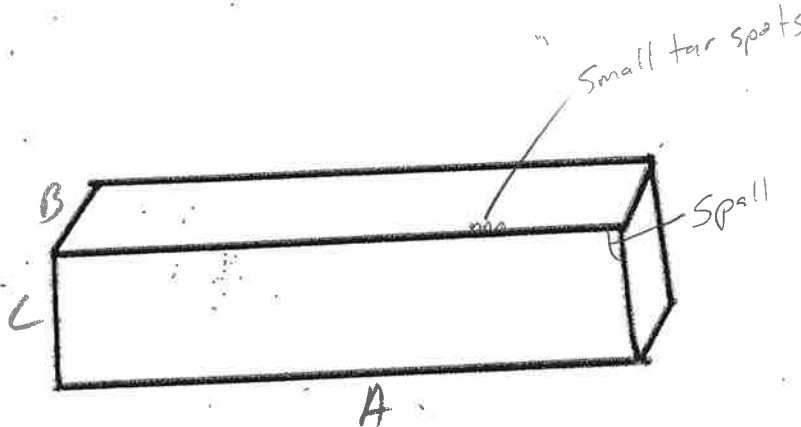
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(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 007

SKETCH



Stone ID No.
20CE

Location	Length (in)
Overall Dimensions	
A	99 1/8
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Weathering	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks along tread
3 small tar spots right side of nosing
Spall on top right corner of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chris Phman
(Print)

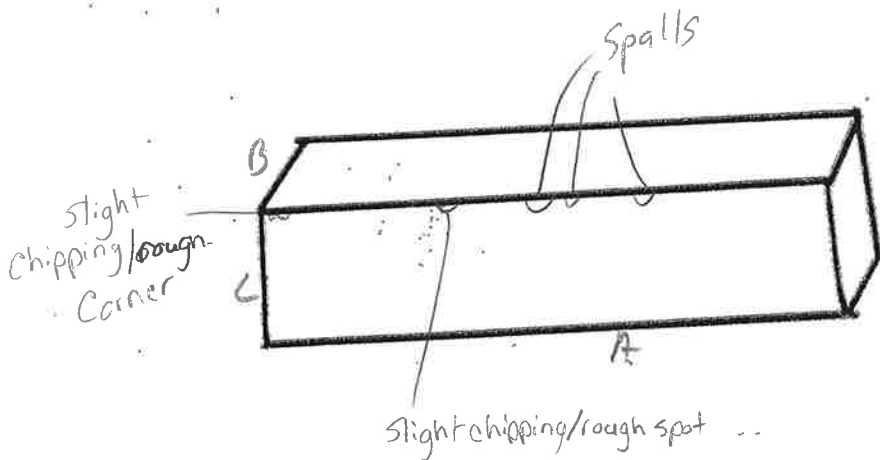
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Date: 9/20/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing DS4

SKETCH



Stone ID No.
20CW

Location	Length (in)
Overall Dimensions	
A	9 1/8
B	1 1/4
C	5 1/2
Minor Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Minor Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Saw marks on head
Slight chipping/rough corner
3 Spalls on nosing; left of center, right of center, right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDF/GSD Representative:

Chris Lphman
(Print)

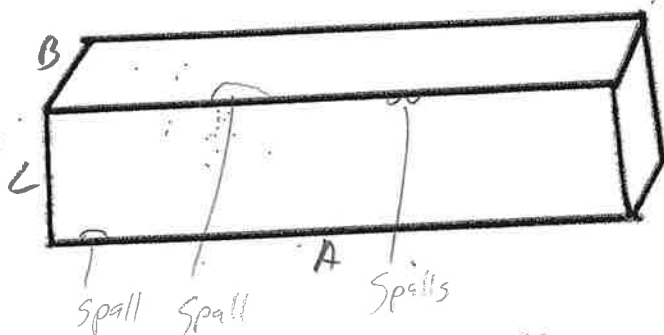
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 008

SKETCH



Stone ID No.
20EE

Location	Length (in)
Overall Dimensions	
A	17 5/8
B	1 1/4
C	5 1/8
Minor Damage	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Minor Damage	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on bed joint left side near corner
Spall on nosing/tread left side
2 small spalls on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

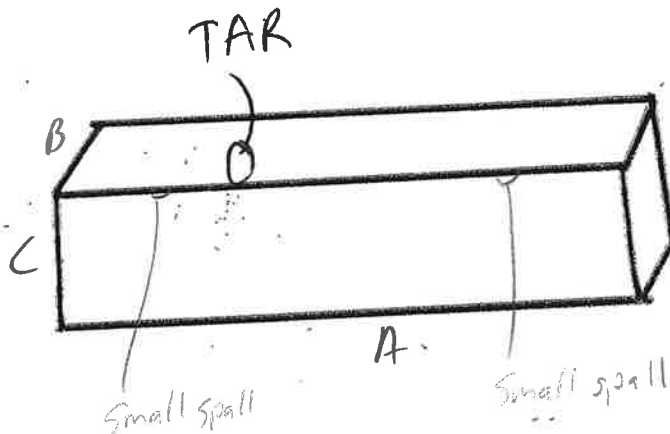
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Date: 9/20/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing 053

SKETCH



Stone ID No.
20EW

Location	Length (in)
A	97 5/8
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall on nosing left side
Saw marks on tread
Small spall right side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chris Lehman
(Print)

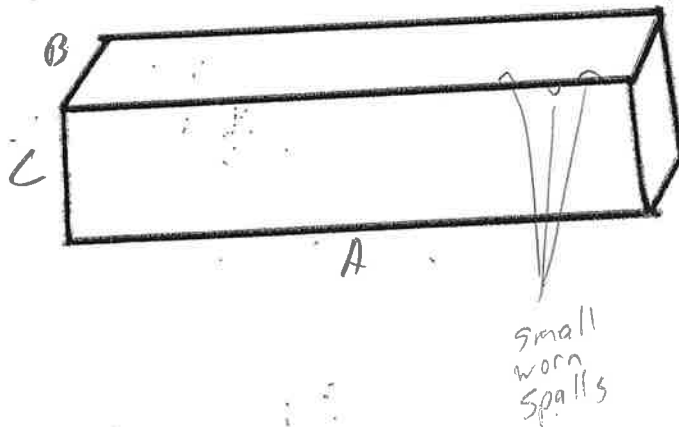
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PR1

SKETCH



Stone ID No.
20GE

Location	Length (in)
Overall Dimensions	
A	98
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Weathering	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):
3 Small worn spalls on rising right side

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist
☒ Photographed prior to removal
☒ Add building reference points for existing location
☐ Existing conditions prevent removal per rigging plan
☒ Photographed after removal
☒ Documentation of areas to be patched
☐ Labeled with Stone ID
☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chris Phman
(Print)

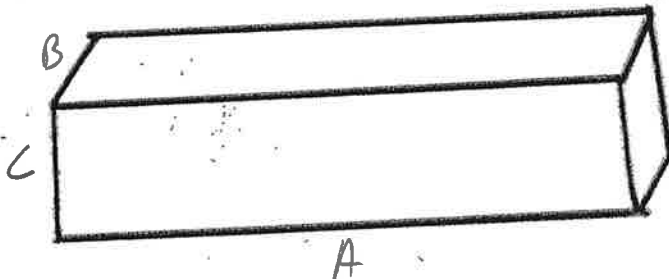
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DS2

SKETCH



Stone ID No.
20GW

Location	Length (in)	
Overall Dimensions		
A	9 8 5/8	
B	1 6	
C	5 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Measurements		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

CHRIS LPHAM
(Print)

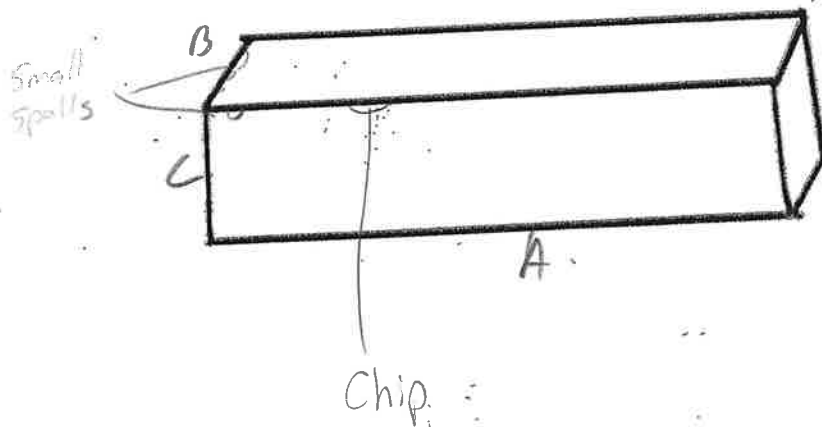
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing OR2

SKETCH



Stone ID No.
20JE

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/8	
Material		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Measurements		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spalls on left joint of head
Small spall on nosing left side near corner
Chip on nosing/face riser left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

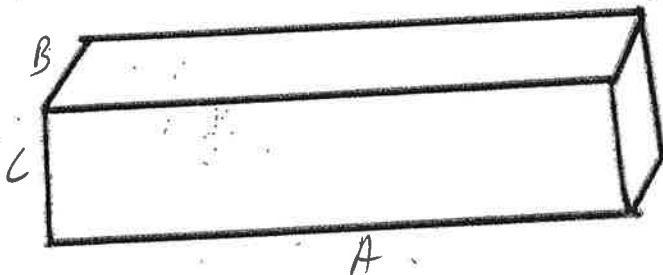
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PS1

SKETCH



Stone ID No.
20JW

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	53 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks on tread at nosing

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

Chris L Phum
(Print)

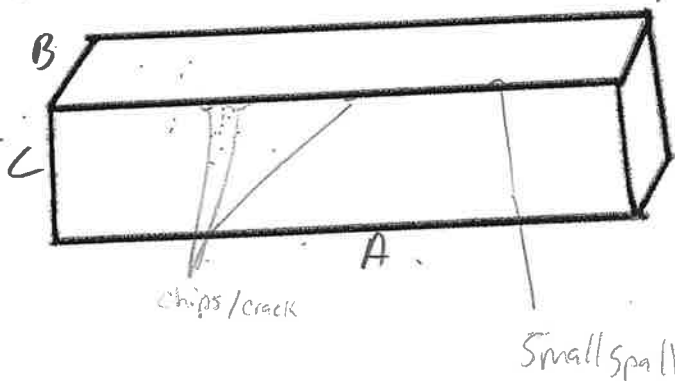
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DR3

SKETCH



Stone ID No.
201E

Location	Length (in)	
Overall Dimensions		
A	98 1/8	
B	16	
C	5 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Small Chips + a crack on left side of nosing
Small spall right side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

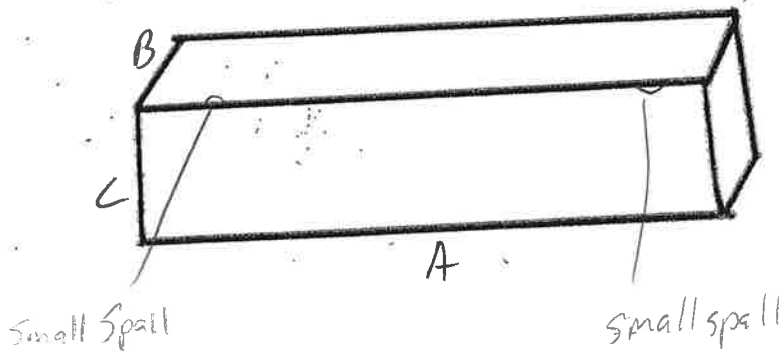
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DR7

SKETCH



Stone ID No.
20LW

Location.	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Damage		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on head at nosing
2 small spalls on nosing; left side & right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

Chris Lehman
(Print)

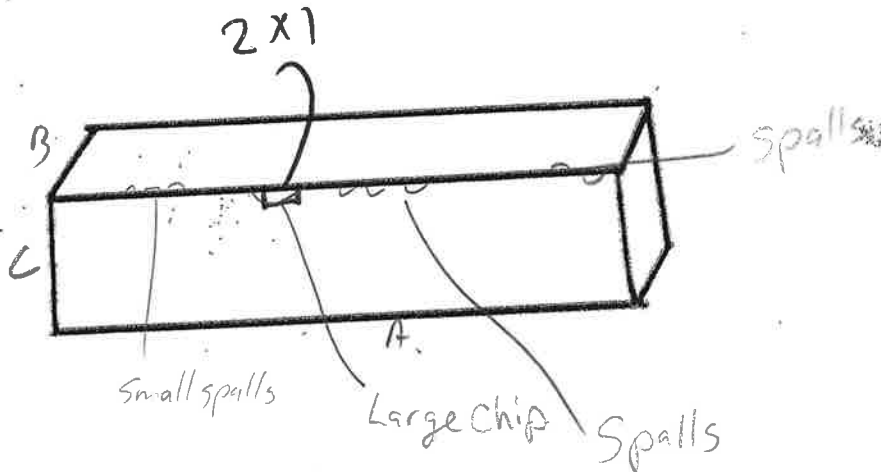
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DR4

SKETCH



Stone ID No.
20NE

Location	Length (in)
A	17 3/4
B	16
C	5 7/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

3 small spalls left side of nosing
Large chip nosing/riser face left of center
3 spalls on nosing near center
2 spalls on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

Chris Lehman
(Print)

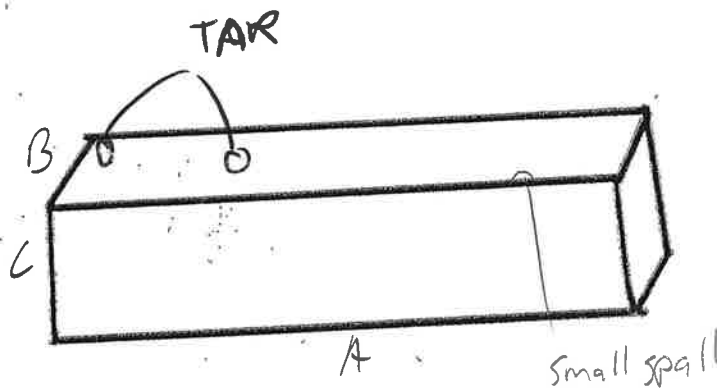
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DRS

SKETCH



Stone ID No.
20NW

Location	Length (in)
A	97 5/8
B	16
C	5 3/8
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Small spall on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Patching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

Chris Lehman
(Print)

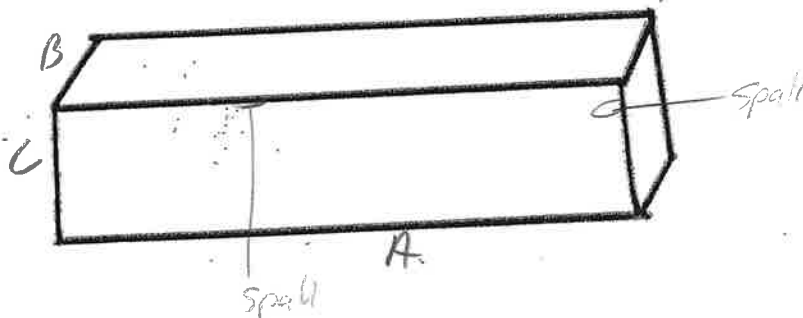
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DR5

SKETCH



Stone ID No.

20Q

Location.	Length (in)	
Overall Dimensions		
A	97 5/8	
B	16	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on nosing left side
Spall on right head joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chris Phman
(Print)

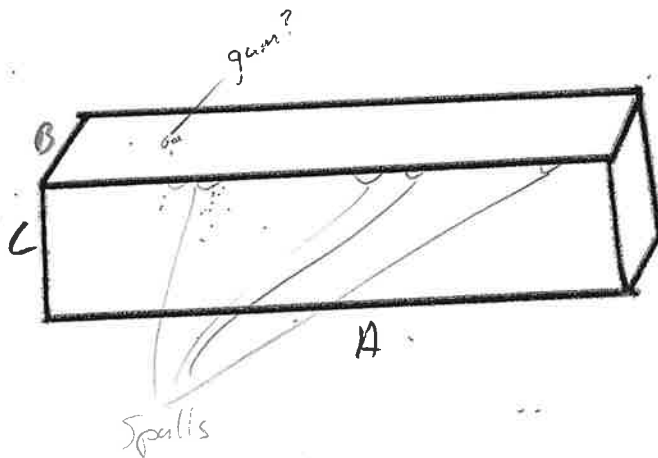
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D-0-8 (N. of trees)

SKETCH



Stone ID No.
21BE

Location	Length (in)
Overall Dimensions	
A	50 1/4
B	1 1/4
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Orientation	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):
Spalls along nosing

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

P Dillon
(Print)

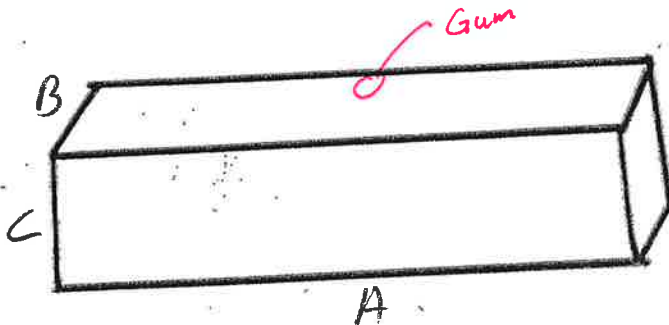
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.Q.6

SKETCH



Stone ID No.
21BW

Location	Length (in)
A	50 1/4
B	16
C	5 1/2
Dimensions	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Measurements	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Stone cleaning recommended: Minor Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

P. Dillon
(Print)

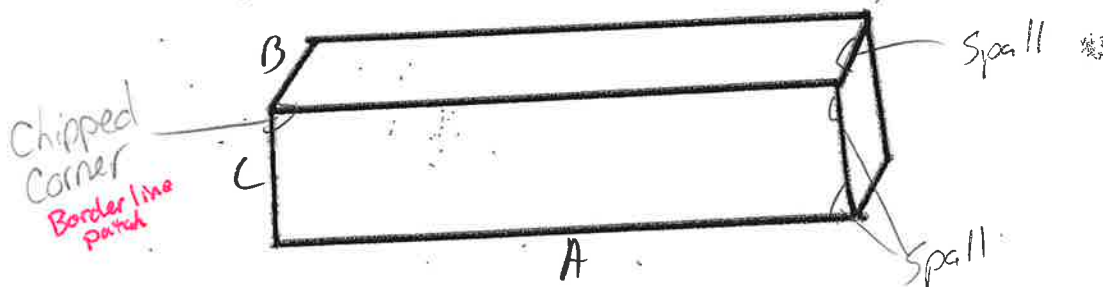
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.P. 1 (N. end)

SKETCH



Stone ID No.
21DE

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Weathering		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner top left of riser
Spall bottom right corner of riser + right hand joint of tread
Spall right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

P Dillon
(Print)

(Signed)

Date: 9/20/22

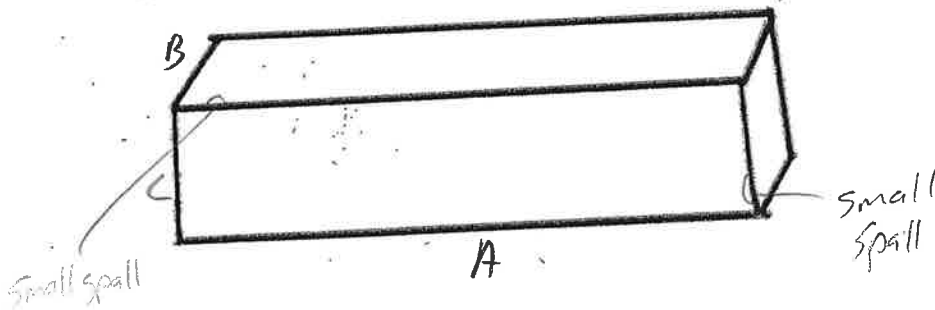
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.Q.5

SKETCH

Stone ID No.
21DW

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Material	
Side	
Top	
Bottom	



Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall on nosing left side
Small spall on right head joint of riser near bottom

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

P. Dillon
(Print)

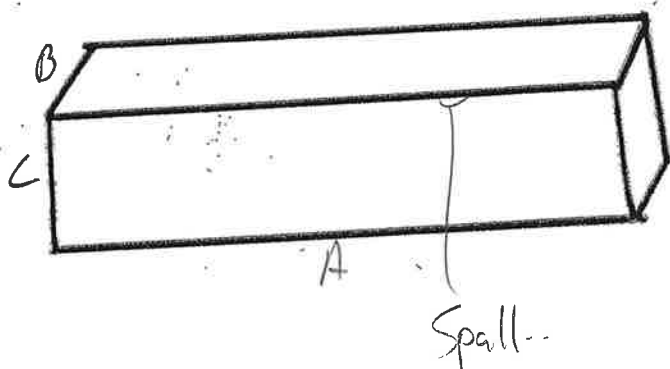
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.P.2

SKETCH



Stone ID No.
21FE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on nosing right side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch) No

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

P. Dillon
(Print)

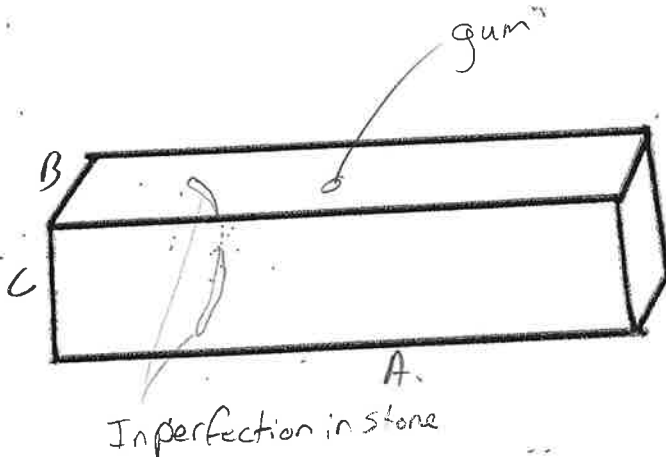
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.Q. 4

SKETCH



Stone ID No.
21FW

Location	Length (in)	
Overall Dimensions		
A	97 7/8	
B	14	
C	5 1/2	
	Est	Repl
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks left side of tread
Imperfection in stone; pitting on riser
gum on tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

P Dillon
(Print)

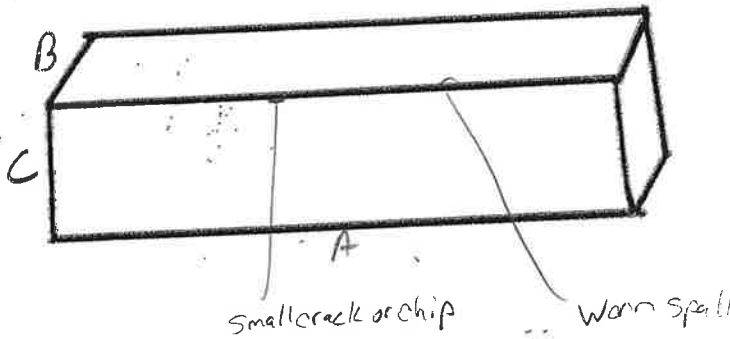
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.P.3

SKETCH



Stone ID No.
21HE

Location	Length (in)
Overall Dimensions	
A	97 1/4
B	16
C	5 1/2
Minor Damage	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Major Damage	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small crack or chip on nosing
Worn Spall on nosing right side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

P Dillan
(Print)

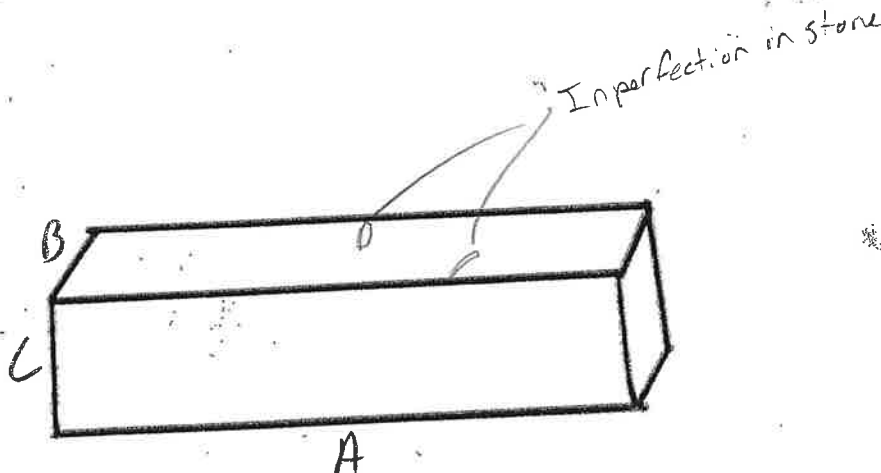
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D-Q-3

SKETCH



Stone ID No.
21HW

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	16
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Weathering	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Imperfection in stone

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

P Dillon
(Print)

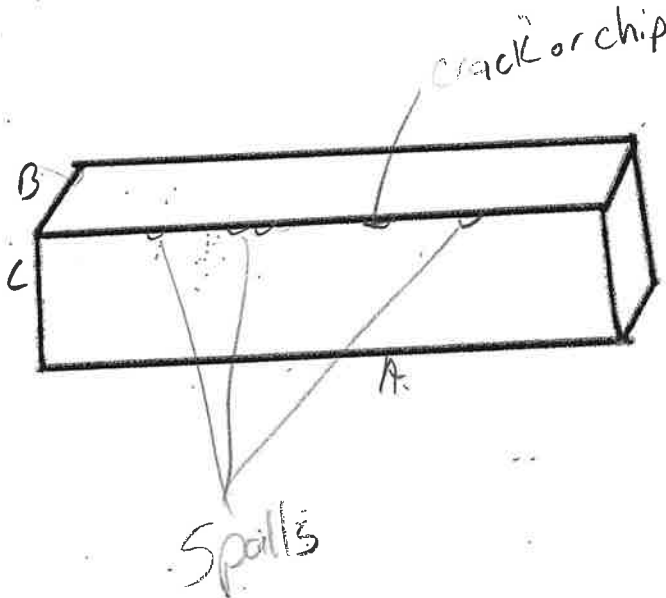
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.P.4

SKETCH



Stone ID No.
21KE

Location	Length (in)
A	97 1/2
B	16
C	5 1/2
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls along nosing
Crack or chip on nosing right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P Dillon
(Print)

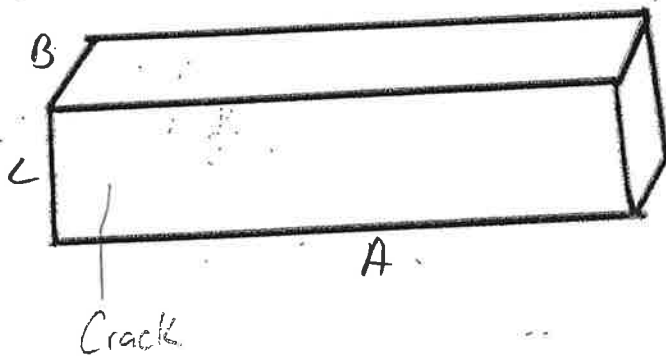
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D-2.2

SKETCH



Stone ID No.
21KW

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/2	
Mortar Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Crack on left side of bed joint of riser near corner

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/31/22

WDP/GSD Representative:

P. Dillon
(Print)

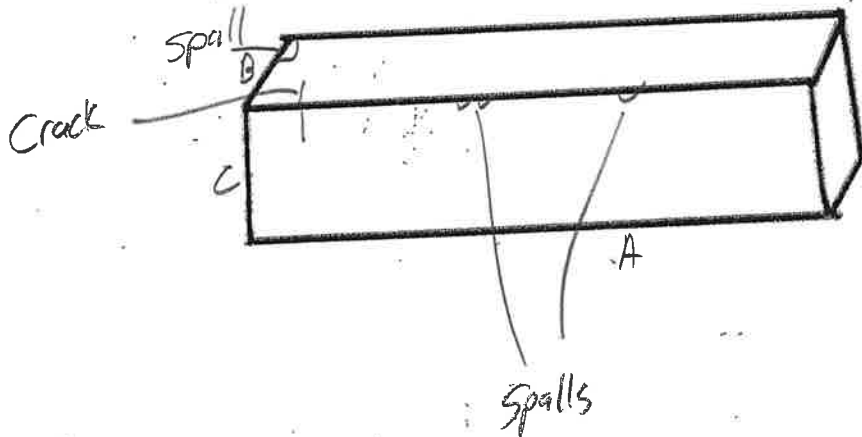
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.P.5

SKETCH



Stone ID No.
21ME

Location	Length (in)
Overall Dimensions	
A	97 1/8
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall left joint of tread near back

Spalls along nosing

Crack on left front of tread wrapping to top left of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 2-31-22

WDP/GSD Representative:

P Dillon
(Print)

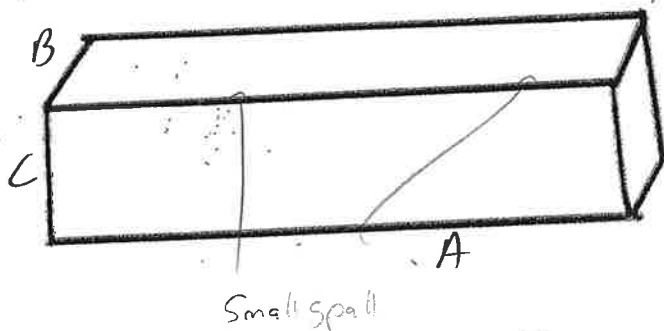
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D-Q-1 (N. end)

SKETCH



Stone ID No.
21MW

Location	Length (in)
Overall Dimensions	
A	97 5/8
B	16
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 small spalls on nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P Dillar
(Print)

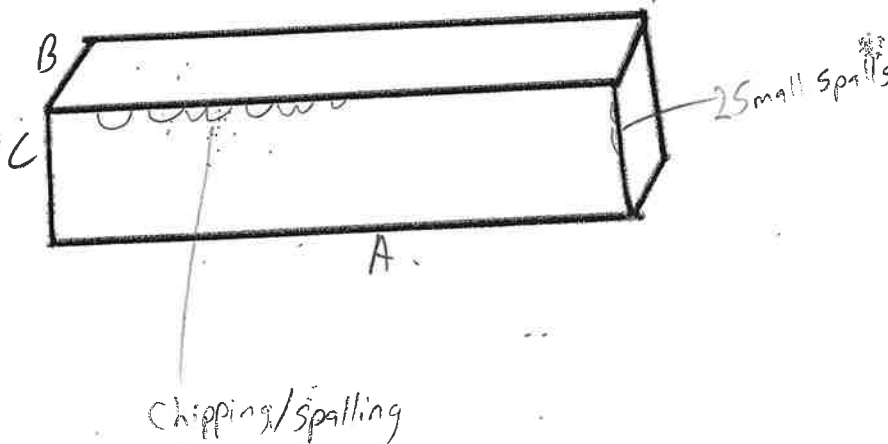
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.P.6 (N. of aisle)

SKETCH



Stone ID No.
21PE

Location	Length (in)	
Overall Dimensions		
A	97 3/4	
B	16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy Chipping or spalling along left side of rising
2 small spalls on right hand joint of riser

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

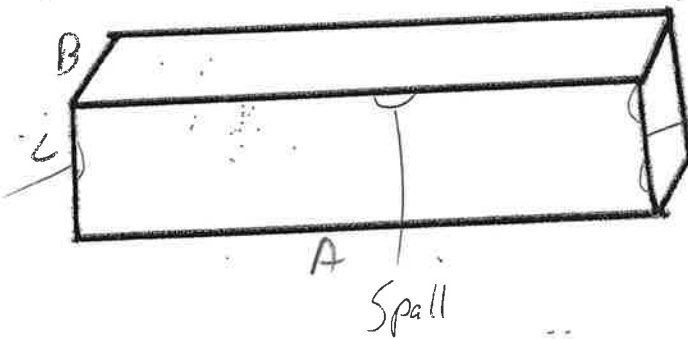
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.P.7 (S. of aisle, N. of trees)

SKETCH

Stone ID No.
21PW



Location.	Length (in)	
Overall Dimensions		
A	9 7/8	
B	16	
C	5 1/2	
Mortar Joints		
D	Left	Right
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall left head joint of riser
2 Small spalls right head joint of riser
Spall on nosing right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P Diller
(Print)

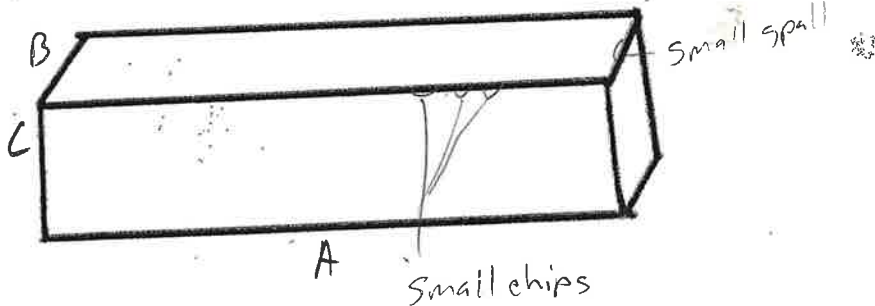
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/N/4

SKETCH



Stone ID No.

22CE

Location	Length (in)	
Overall Dimensions		
A	99 1/4	
B	14 1/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chips on nosing right side
Saw marks across tread
Small spall right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P Dillon
(Print)

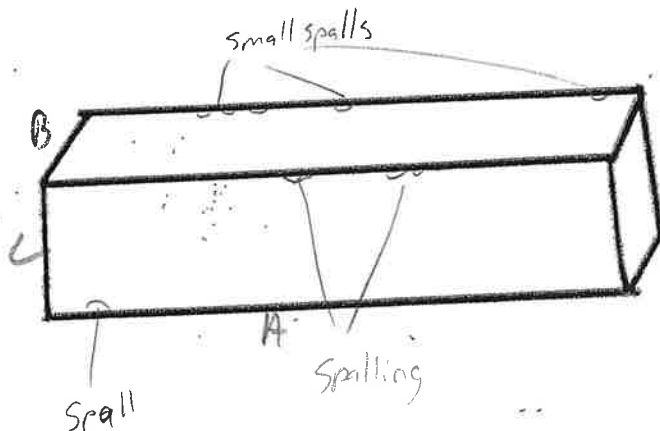
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.O.7 (S. of aisle)

SKETCH



Stone ID No.
22CW

Location	Length (in)
A	99 3/8
B	14
C	5 1/2
Detail Dimensions	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Major Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks left side of tread
Small spalls along back joint of tread
Spalling on nosing left and right of center
Small spall on bed joint of riser left side near corner

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P Dillon
(Print)

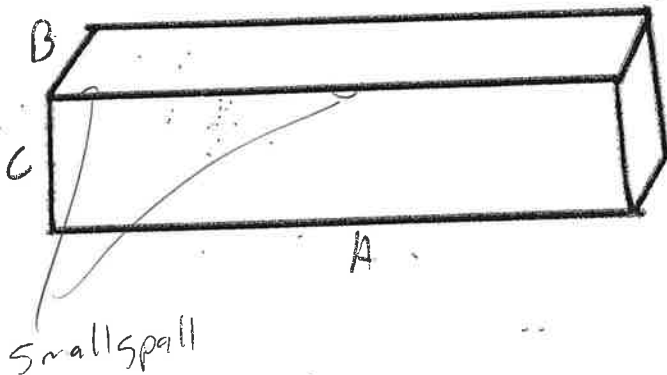
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Date: 9/20/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing D-N-5

SKETCH



Stone ID No.
22EE

Location	Length (in)
Overall Dimensions	
A	97 1/2
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 small spalls on nosing left side
Saw marks across tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P. Dillon
(Print)

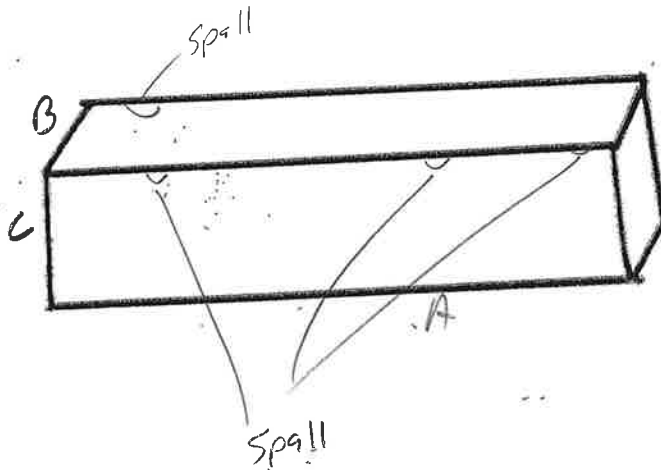
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Date: 9/1/22

Stone Survey Sheet

Location Drawing 14.01
Storage Drawing D.O.G (N. of aisle)

SKETCH



Stone ID No.
22EW

Location	Length (in)
Ground Dimensions	
A	17 3/4
B	14
C	5 1/2
Material	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Material Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy saw marks on tread
Spall on nosing left side
2 spalls on nosing right side
Spall on back joint of tread left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P Dillan
(Print)

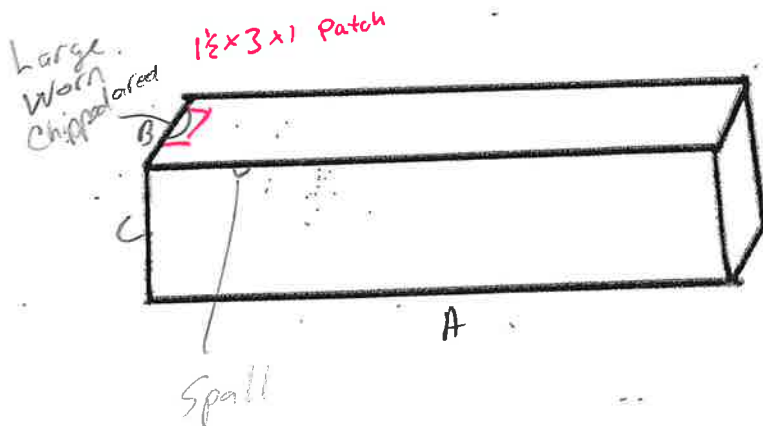
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D-N-6

SKETCH



Stone ID No.
22GE

Location	Length (in)	
Overall Dimensions		
A	97 1/4	
B	14	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Saw marks on tread
Spall on nosing left side
Large chip worn on left joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

P Dillon
(Print)

(Signed)

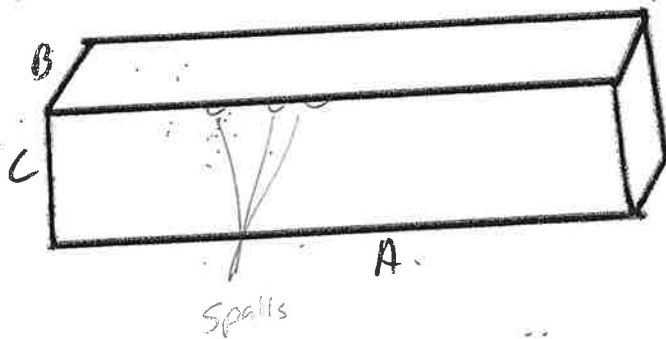
Date: 9/1/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D.O.5

SKETCH



Stone ID No.
22GW

Location	Length (in)
Overall Dimensions	
A	27 3/4
B	15 5/8
C	5 1/2
Face	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Weathering	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy saw marks
Small spalls along left side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

P. Dillon
(Print)

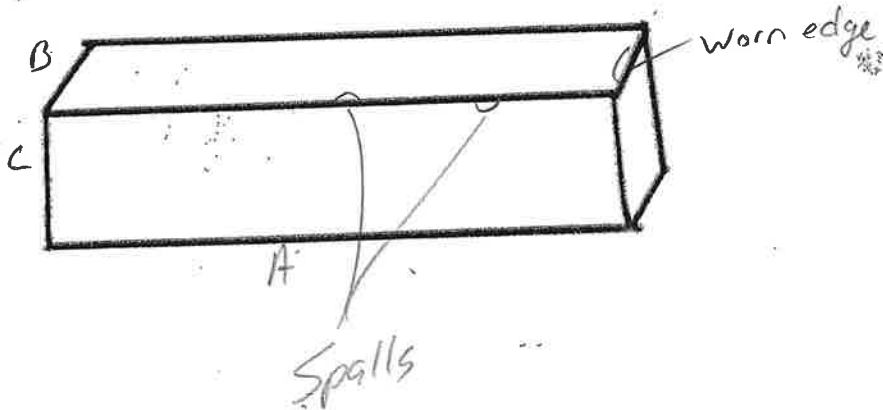
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D-N-7 (No. of aisles)

SKETCH



Stone ID No.
22JE

Location	Length (in)
Overall Dimensions	
A	97 3/4
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Saw marks on tread
2 spalls on nosing
Worn edge of stone along right joint of tread

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 3 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist
☒ Photographed prior to removal
☒ Add building reference points for existing location
☐ Existing conditions prevent removal per rigging plan
☒ Photographed after removal
☒ Documentation of areas to be patched
☒ Labeled with Stone ID
☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

P Dillan
(Print)

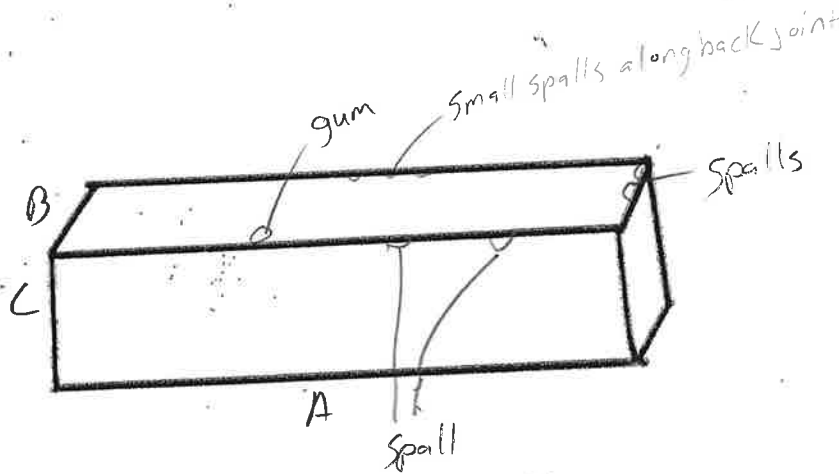
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D.O.4

SKETCH



Stone ID No.
22JW

Location	Length (in)
Overall Dimensions	
A	17 7/8
B	14
C	5 1/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Heavy saw marks across tread
gum spot on left front of tread
2 spalls on nosing right side
2 spalls on right joint of tread near back
small spalls across back joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P Dillon
(Print)

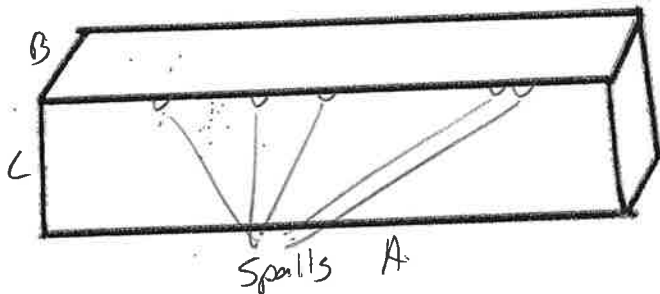
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/N/8 (So of aisle)

SKETCH



Stone ID No.

22LE

Location	Length (in)
Overall Dimensions	
A	97 1/4
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Sawmark on tread
Spalls across nosing

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

P Dillon
(Print)

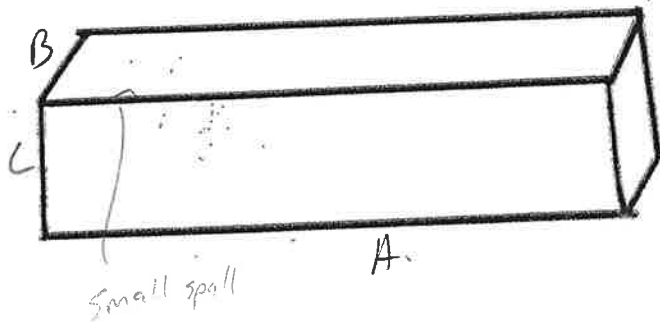
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D-0-3

SKETCH



Stone ID No.
22LW

Location	Length (in)
Overall Dimensions	
A	97 1/4
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Small spall on left side of nosing
Saw marks across tread

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

P. Dillon
(Print)

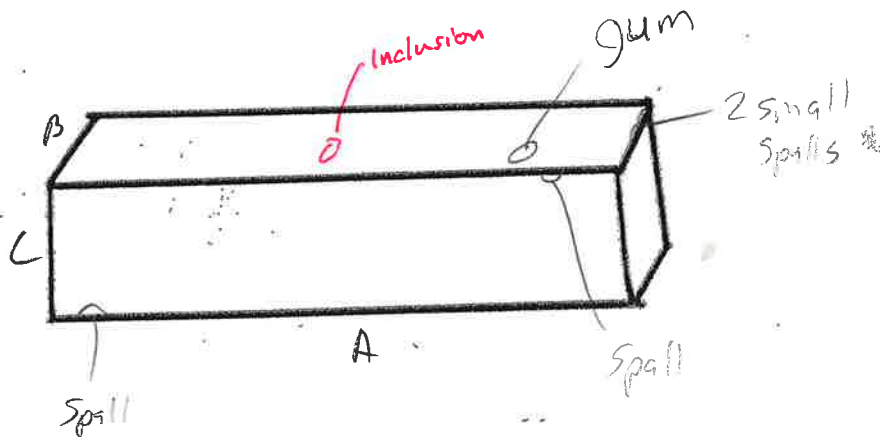
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/N/9 (N. of trees)

SKETCH



Stone ID No.
22NE

Location	Length (in)
Overall Dimensions	
A	97 5/8
B	14
C	5 1/2
Joint Lines	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Joint Lines	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall on bed joint of riser left side
Spall on nosing right side
2 small spalls right joint of tread near back
Gum spot right side of tread
Saw marks on tread

Stone cleaning recommended: Minor / Moderate to heavy
Type of repair _____
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 8 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

P Dillan
(Print)

(Signed)

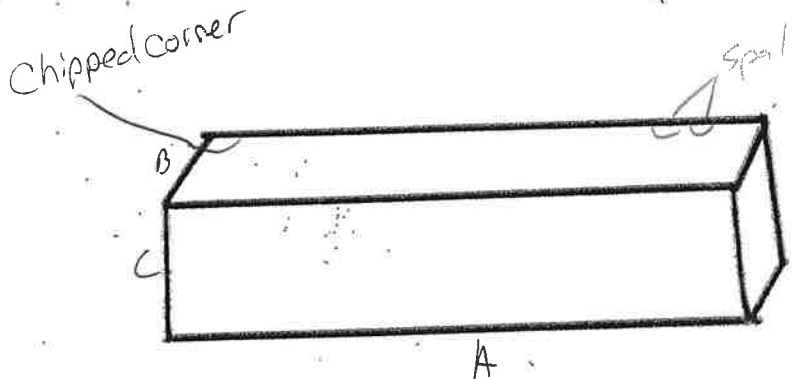
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D-0-2

Stone ID No.
22NW

SKETCH



Location	Length (in)
Overall Dimensions	
A	97 7/8
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner back left of tread
2 spalls back joint of tread on right side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

P Dillon
(Print)

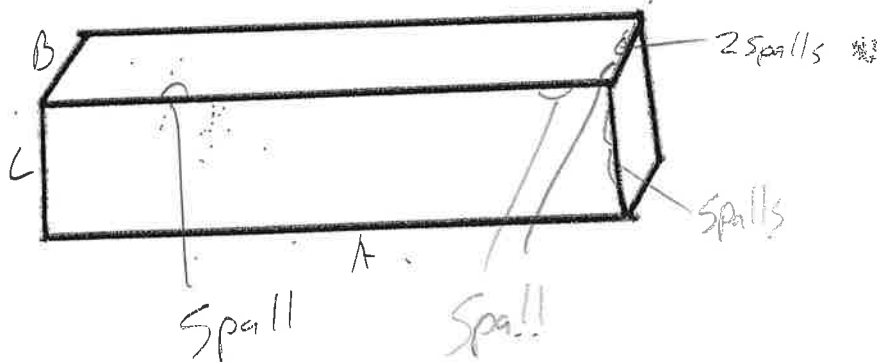
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/O/1 (N. end)

SKETCH



Stone ID No.

22Q

Location	Length (in)
Overall Dimensions	
A	9 1/4
B	14
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 spalls on nosing; one left side + one right side
3 spalls on right joint of tread; one on front corner
Spalling up right head joint of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

P. Dillon
(Print)

(Signed)

Date: 9/20/22

Limestone Middle Flight Treads

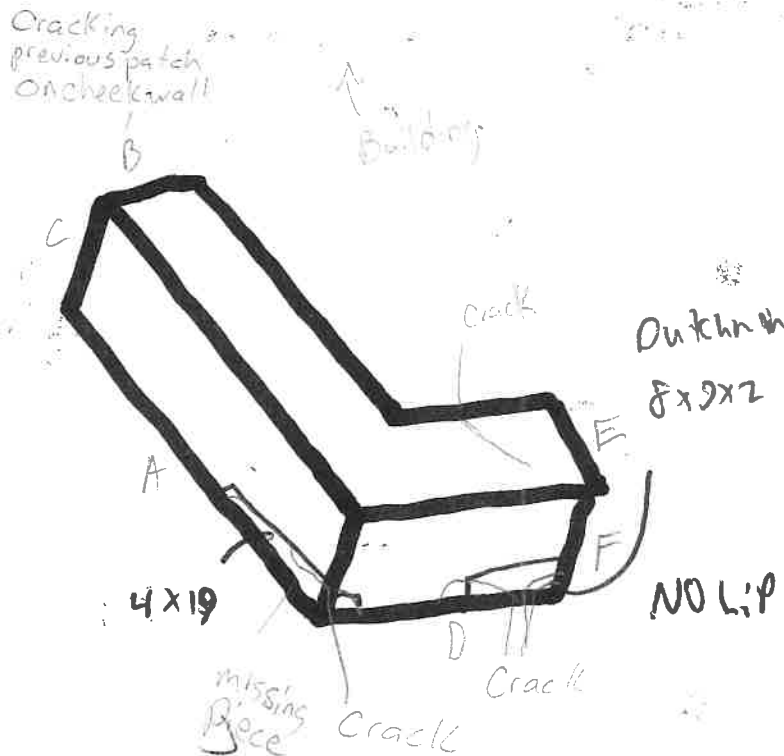
Rows 41-58

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PL 10

Stone ID No.
41AE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	59 1/4	
B	18 3/8	
C	5 3/8	
	Left	Right
D	46 1/4	
E	18 1/2	
F	5 1/4	
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack along bed joint east riser ^{face} wrapping around front corner
Cracking along bed joint + base on front corner east riser ^{face}
Cracking on top surface

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 220 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-30-22

WDP/GSD Representative:

Chris Lehman
(Print)

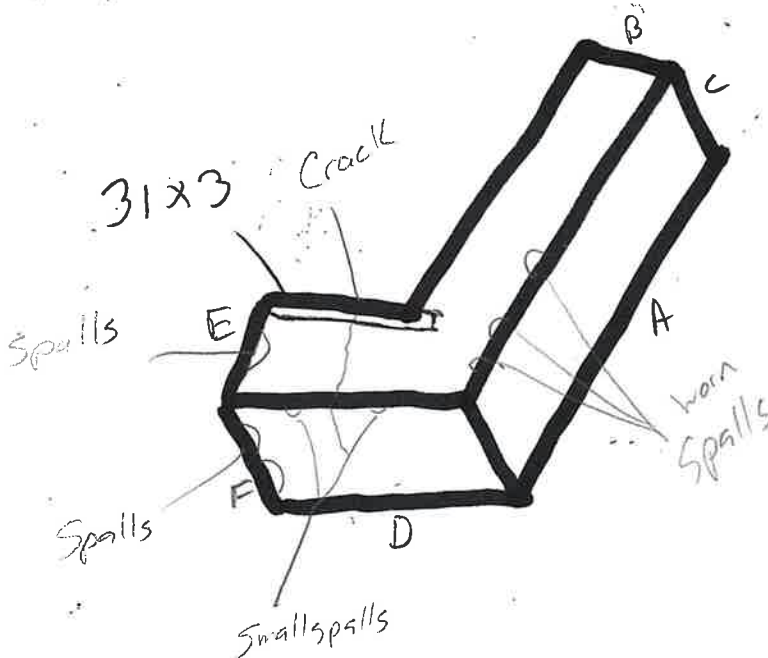
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(Signed)

Date: 9/12/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

41AW

Location.	Length (in)	
Overall Dimensions		
A	5 1/4	
B	15	
C	6 1/4	
	Left	Right
D	3 1/4	
E	15	
F	6 1/4	
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on left joint of tread
2 spalls on left head joint of riser
small spalls on nosing of both faces; 1 larger spall on west nosing
Cracking on left side of tread continuing down riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 9.3 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

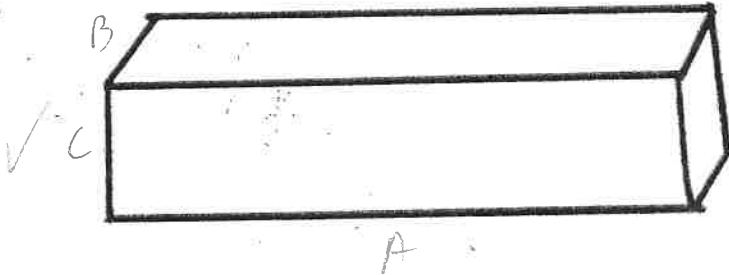
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Date: 9/18/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DL 11

SKETCH



Stone ID No.
4ICE

Location	Length (in)	
Overall Dimensions		
A	66 1/4	
B	17 1/2	
C	11 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-30-22

WDP/GSD Representative:

Chris Lephart
(Print)

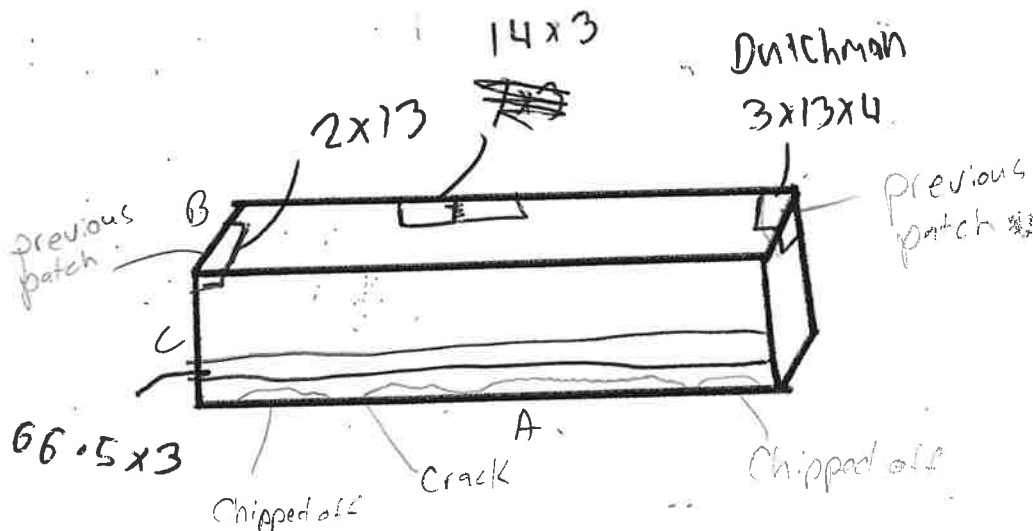
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing _____
Storage Drawing _____

SKETCH



Stone ID No.
41CW

Location	Length (in)
Overall Dimensions	
A	66 3/8
B	14 5/8
C	6 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous patch left joint of head to top right corner of riser
Chipped off areas at bed joint of riser left + right side
Crack across bed joint of riser
Previous patch right joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 423.5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

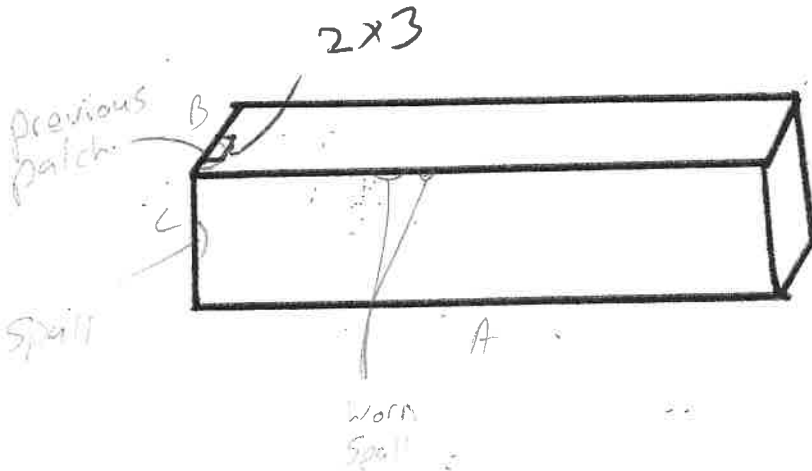
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Date: 9/12/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PL 12

SKETCH



Stone ID No.

41EE

Location.	Length (in)	
Overall Dimensions:		
A	67 1/4	
B	17 1/2	
C	11 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patch left joint of tread near front
Spall left head joint of riser
2 worn spalls along nosing left side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-30-22

WDP/GSD Representative:

Chris Lehman
(Print)

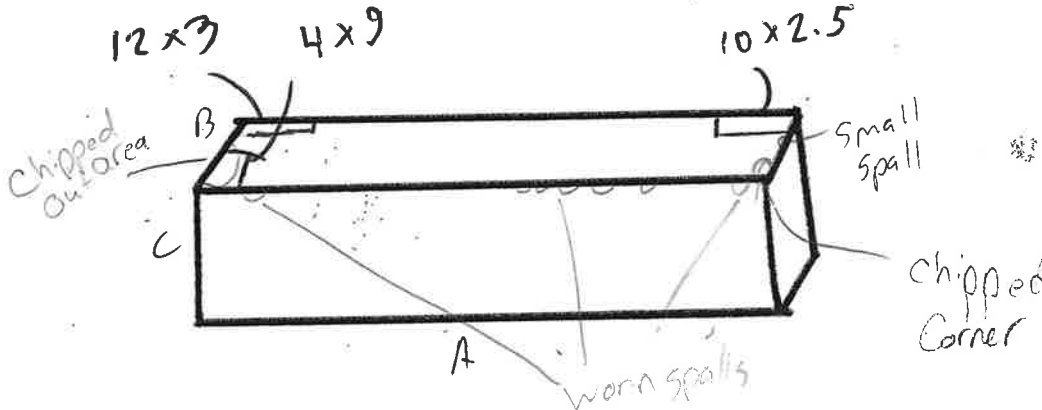
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DN1

SKETCH



Stone ID No.
41EW

Location.	Length (in)	
Overall Dimensions		
A	6.5 3/4	
B	15 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large chipped out area on front left corner of tread
Worn spalls across nosing especially on right side
Small spall on right joint of tread
Chipped off corner on front right of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 97 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Upman
(Print)

(Signed)

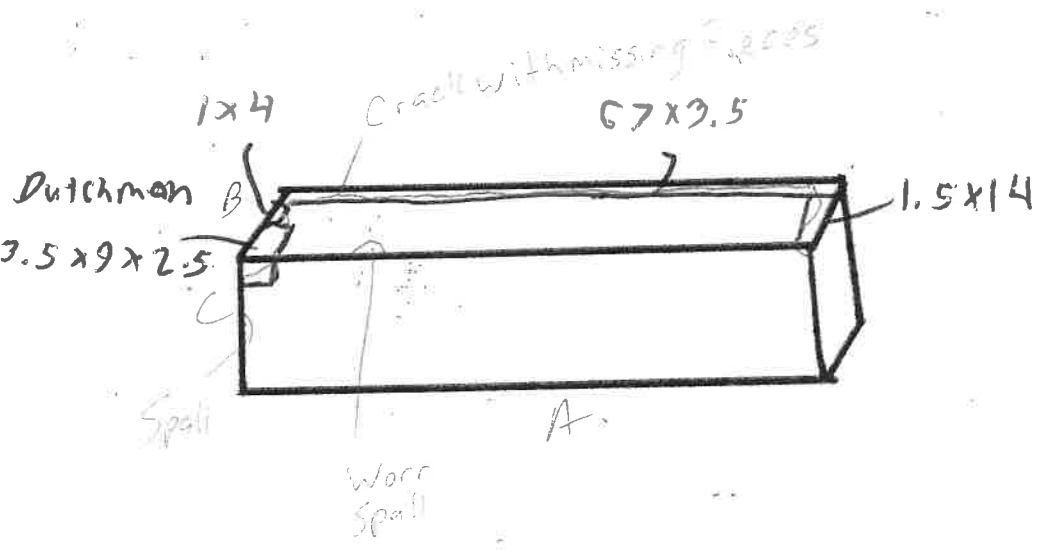
Date: 9/12/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DM1

SKETCH

Stone ID No.
41GE



Location	Length (in)	
Overall Dimensions:		
A	16 5/8	
B	17 5/8	
C	12	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Spall left head joint of riser
- Worn spall on nosing left side
- Cracking from top left corner of riser wrapping to head along left joint, back joint, right joint + top right corner of riser
- Missing pieces

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 338.25 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-30-22

WEP/GSD Representative:

Chris Lehman
(Print)

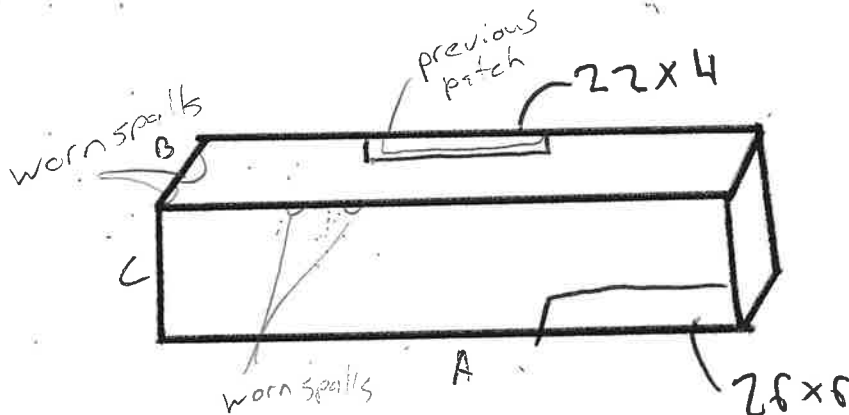
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DM9

SKETCH



Stone ID No.

41GW

Location	Length (in)	
Overall Dimensions		
A	67	
B	15 1/2	
C	15 1/2	
Mortar Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spalls on left joint of tread
2 worn spalls on rising left side
Previous patch on tread near center of back joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 244 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris LPhan
(Print)

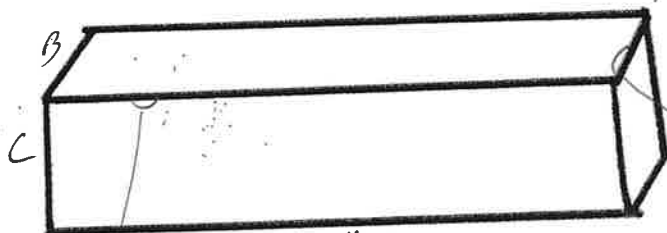
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Date: 9/12/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D4.02

SKETCH



Worn Spall

Worn Spall

Stone ID No.

41JE

Location	Length (in)	
Overall Dimensions		
A	61 3/4	
B	14 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spall on nosing left side
Worn spall right joint of reach

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/19/22

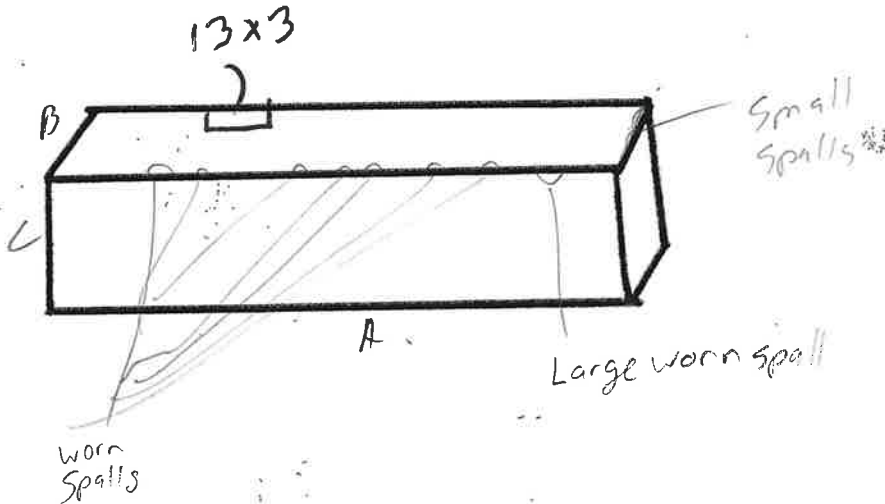
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DM8

Stone ID No.

41JW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 3/8	
B	15	
C	15	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

7 worn spalls across nosing
large worn spall right side of nosing
small spalls on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3.9 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WBP/GSD Representative:

Chris Lehman
(Print)

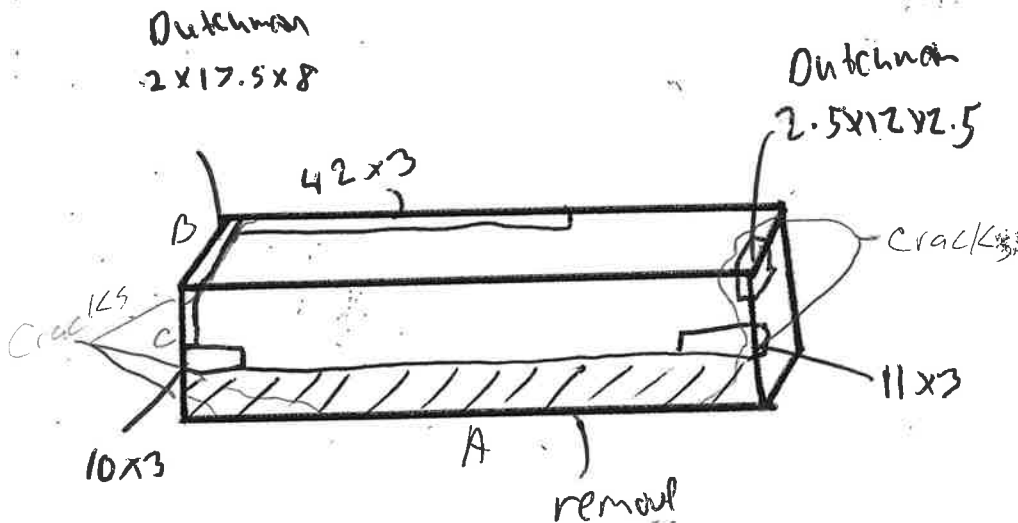
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DM3

SKETCH



Stone ID No.

41LE

Location	Length (in)	
Overall Dimensions		
A	65/8	
B	14/8	
C	5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- 2 Cracks bottom left corner of riser
- Crack starting top left corner of riser wrapping to tread down left joint to back corner
- Cracking starting bottom corner of riser running

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 544 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WEP/GSD Representative:

Chris Lehman
(Print)

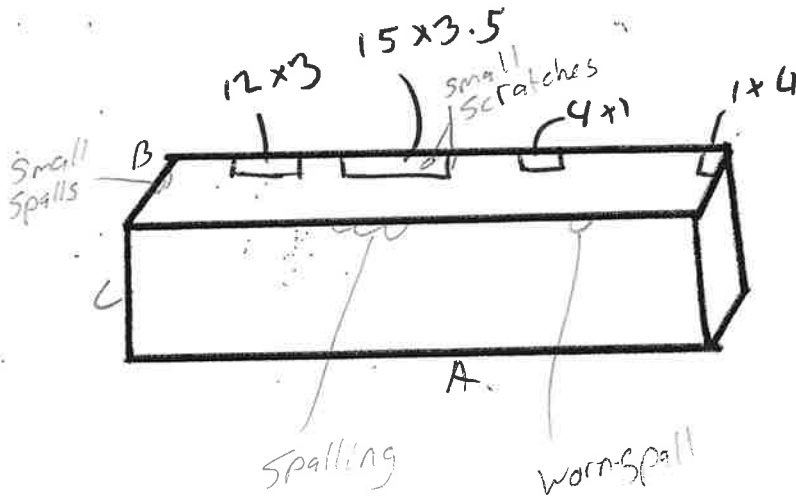
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PM7

SKETCH



Stone ID No.

41LW

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	14 7/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spalls left joint of tread
spalling on nosing near center
worn spall on nosing right side
2 small scratches on tread near back joint at center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 26.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lephman
(Print)

(Signed)

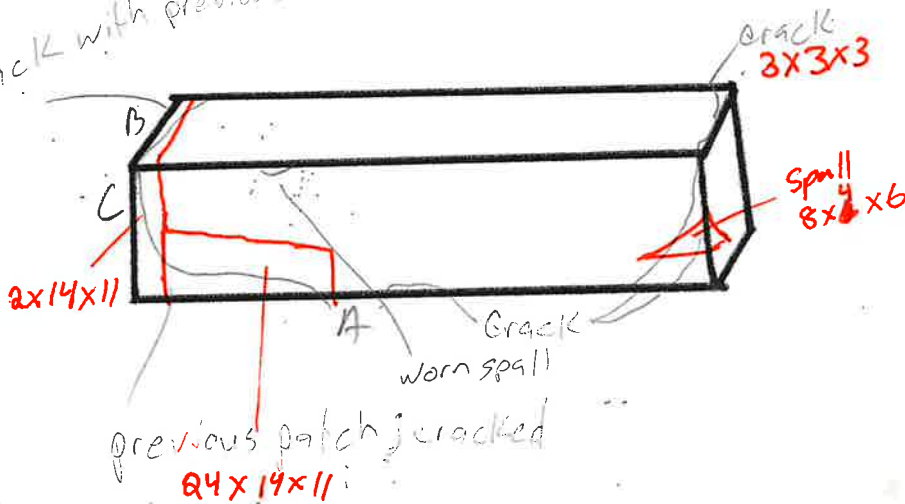
Date: 9/12/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/M/4

SKETCH

Crack with previous patch



Stone ID No.

41NE

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
E	14 3/4	
C	5 1/2	9 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

- crack back right corner of tread

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Crack with previous patch back left corner of tread
- previous patch with cracked edges down left lead joint of riser across bed joint of riser
- worn spall on nosing left side
- Crack near center of bed joint of riser
- Cracking on bottom right corner of riser up head joint + on corner of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 4196 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chiller
(Print)

(Signed)

Date: 9-14-22

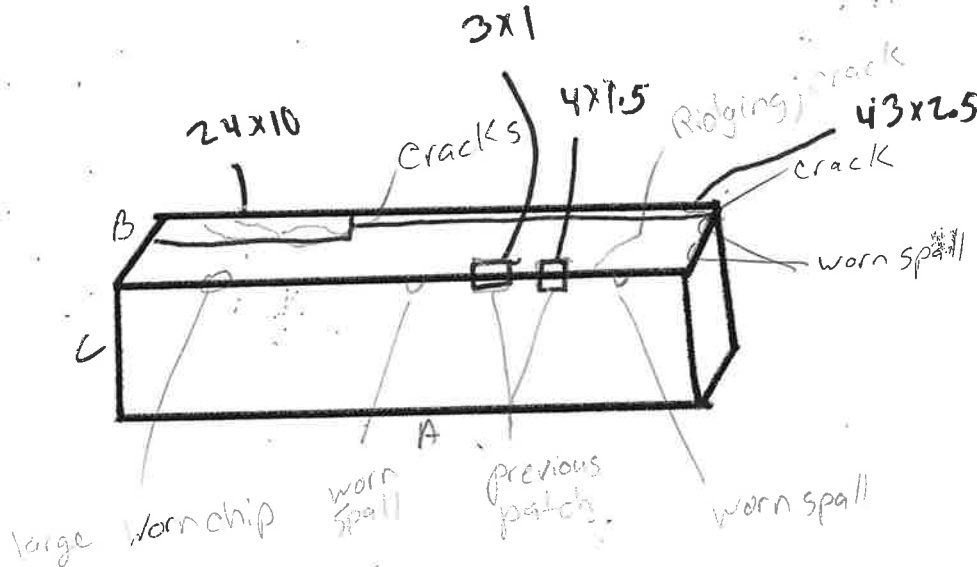
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DME

Stone ID No.

41NW

SKETCH



Location	Length (in)
Overall Dimensions	
A	66 1/2
B	14 1/2
C	5 1/2
Mortar Joints	
	Left Right
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

- Ridging/crack right side of tread
- Crack back right corner of tread

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Weathering left side of tread
- large worn chip on nosing left side
- large cracks back left of tread
- worn spalls on nosing center + right side
- 2 previous patches on nosing worn
- 2 worn spalls right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 356.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris LPhnan
(Print)

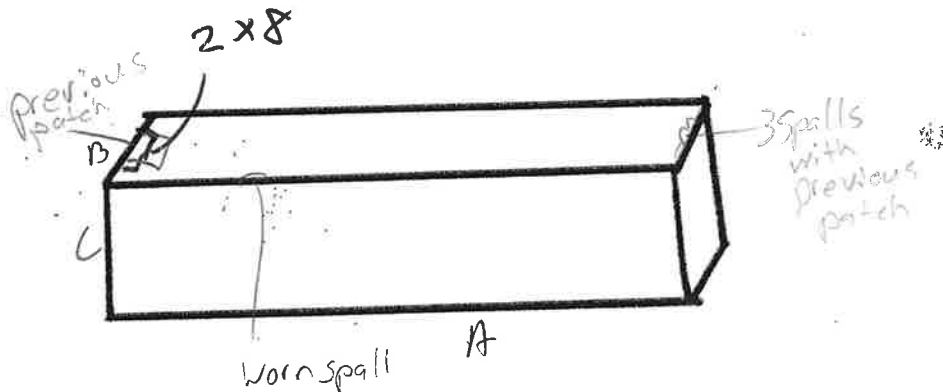
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DM5

SKETCH



Stone ID No.

41Q

Location	Length (in)	
Overall Dimensions		
A	79	
B	14 1/2	
C	22	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patch left joint of tread
Worn spall left side of nosing
3 worn spalls right joint of tread with previous patch

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 16 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris LPham
(Print)

(Signed)

Date: 9/10/22

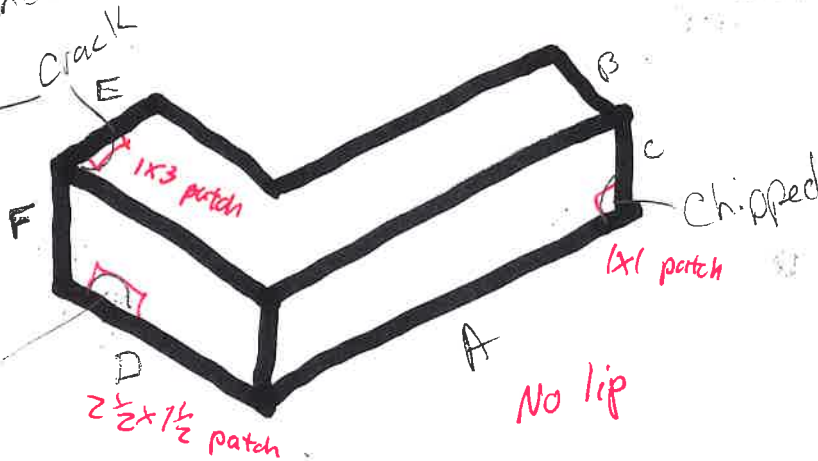
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing P/K/7

Stone ID No.

42 BE

Previous patch on cheekwall at joint SKETCH



Location	Length (in)	
Overall Dimensions:		
A	64	
B	17 $\frac{7}{8}$	
C	5 $\frac{3}{8}$	
	43 1/16	17 3/4
D	43 $\frac{1}{16}$	
E	17 $\frac{3}{4}$	
F	5 $\frac{1}{4}$	
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall east face of riser at bed joint
Crack on left side of tread at back joint (cheekwall)
Previous patching on cheekwall above back joint
Chipped corner bottom right corner of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-29-22

WDP/GSD Representative:

P Dillon
(Print)

[Signature]
(Signed)

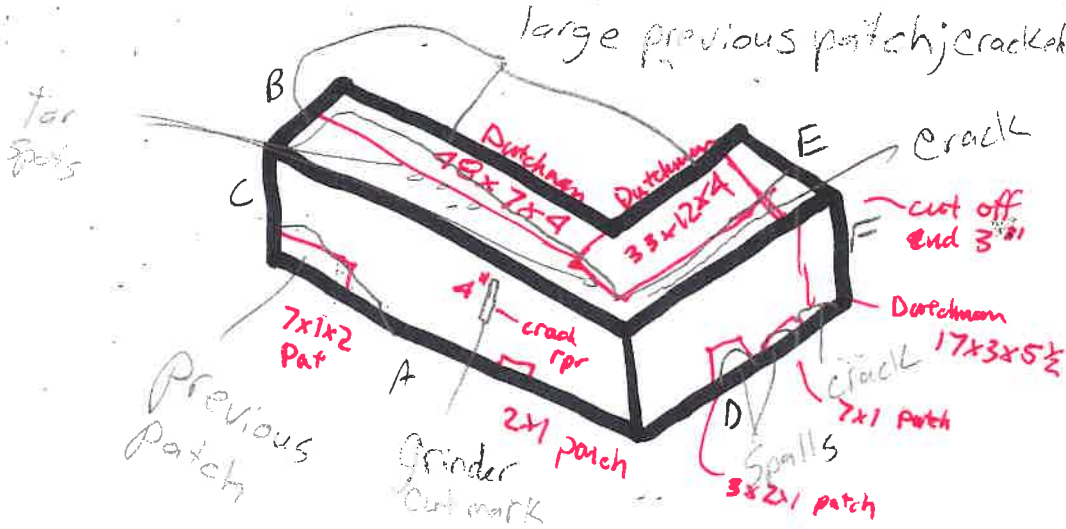
Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L/9 (So. of aisle)

Stone ID No.
42 BW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	63 $\frac{3}{4}$	
B	17 $\frac{3}{8}$	
C	5 $\frac{3}{8}$	8
	Left	Right
D	42 $\frac{1}{2}$	
E	17 $\frac{1}{2}$	
F	5 $\frac{1}{2}$	7 $\frac{3}{4}$
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Tar spots on tread
- Previous patch bottom left corner of riser
- Large previous patch up left joint to riser continuing along back joint around corner to cheek wall
- grinder cut mark on face of riser
- 2 spalls and a crack along bed joint of west face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair Dutchman 3210 in³ crack 4 in³

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 29 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-30-22

WDP/GSD Representative:

P Dillon
(Print)

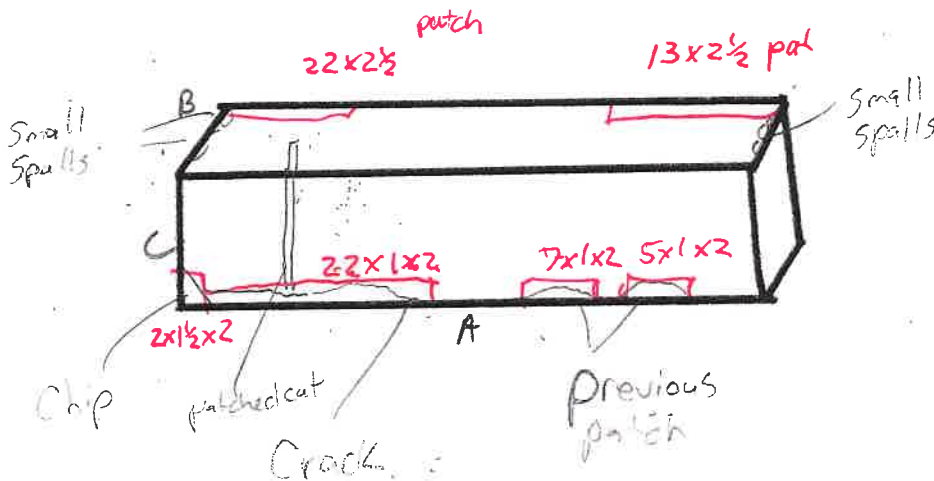
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/K/8

SKETCH



Stone ID No.
42DE

Location	Length (in)	
Overall Dimensions		
A	66 ⁵ / ₁₆	
B	17 ¹ / ₂	
C	5	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls left joint of tread
Small spalls right joint of tread
Chipped corner bottom left of riser
Cracks along bed joint of riser left side
2 previous patches along right side of bed joint
Patched cut mark left side of riser + tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 162 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? No / Yes

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

P Dillon
(Print)

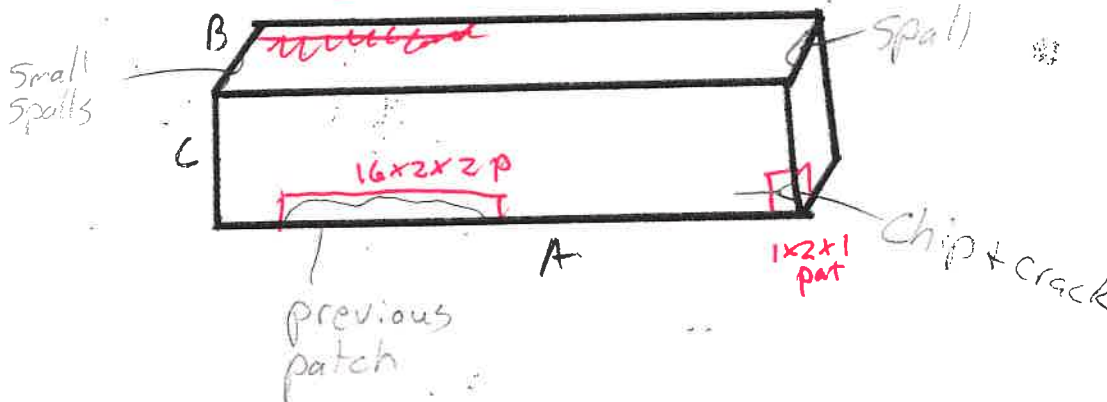
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing P/L/8 (No. of aisle)

SKETCH



Stone ID No.
42DW

Location	Length (in)	
Overall Dimensions		
A	65 5/16	
B	17 5/16	
C	5 1/2	8 1/16
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 small spalls left joint of tread
Previous patch left side of riser at bed joint
Chip with crack bottom right corner of riser
Spall right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WEP/GSD Representative:

P Dillon
(Print)

(Signed)

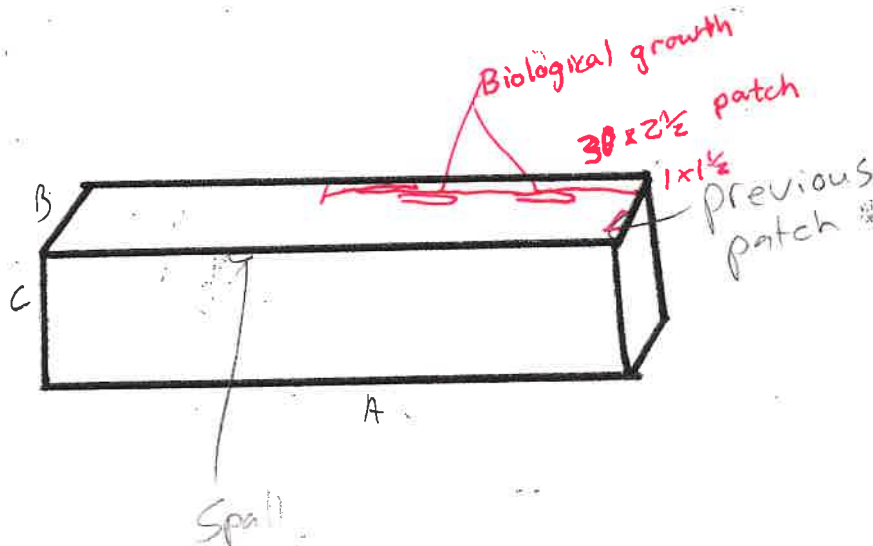
Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D/K/9 (No. of Trees)

SKETCH



Stone ID No.

42FE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₁₆	
C	5 ⁷ / ₈	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

previous patch right joint of tread near front corner
Small spall on nosing left side

• Stone cleaning recommended: Minor Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 75 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9/20/22

WDP/GSD Representative:

P Dillon
(Print)

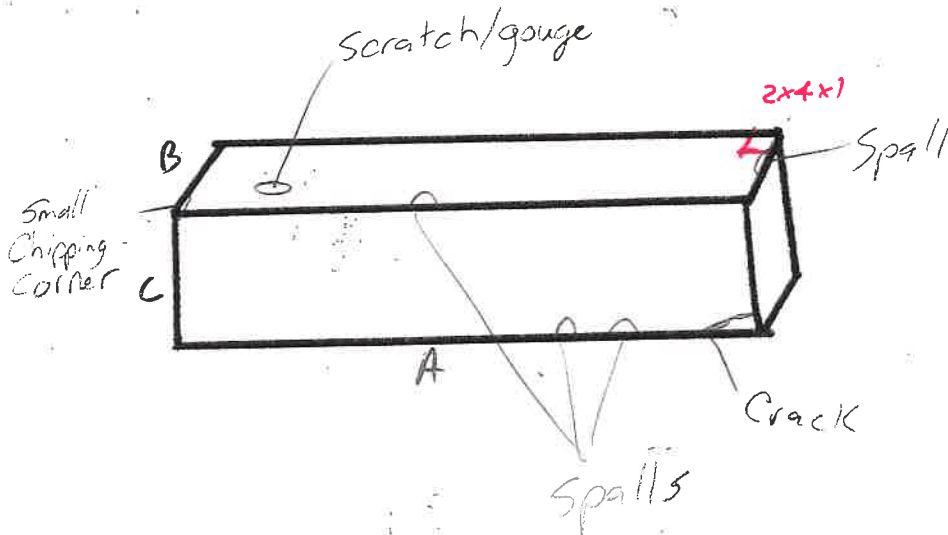
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L/7

SKETCH



Stone ID No.

42FW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 3/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Major Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small chip off top left corner of riser
Scratch/gouge on left front of tread
Spall on nosing left of center
2 spalls on bed joint of riser right side
Crack bottom right corner of riser
Spall right joint of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

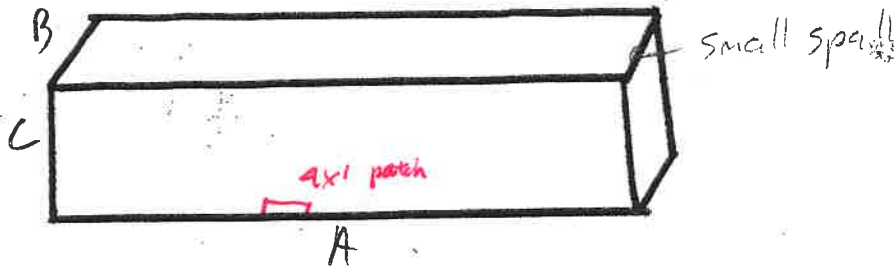
Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D/K/10 (So. of. Trees)

SKETCH



Stone ID No.

42HE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₈	
B	17 ¹ / ₄	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

small spall on right joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 4 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

P. Dillon
(Print)

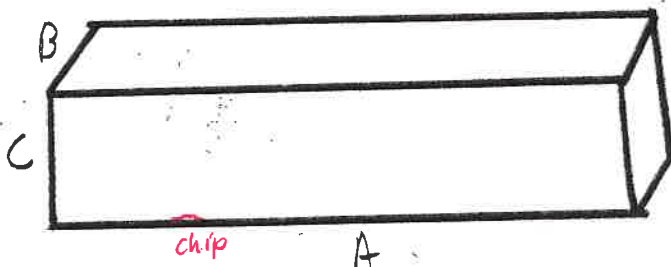
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L/6

SKETCH



Stone ID No.
42HW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

P. Dillon
(Print)

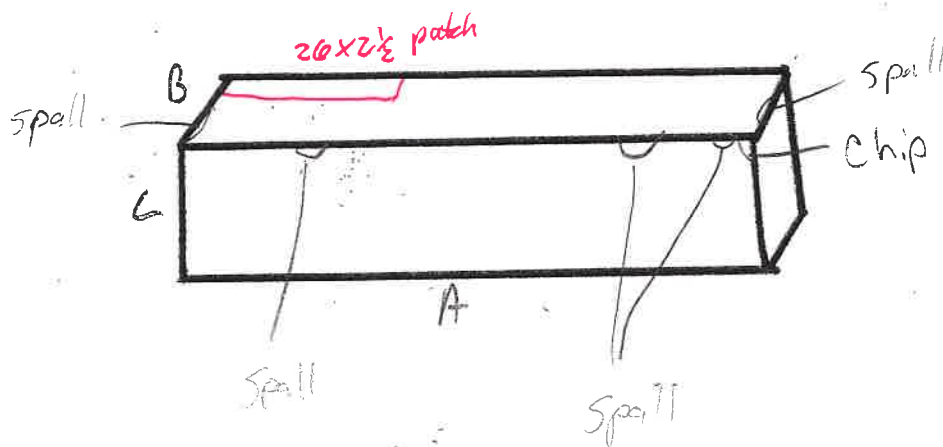
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/K/11 (50 end)

SKETCH



Stone ID No.

42KE

Location	Length (in)	
Overall Dimensions		
A	66 $\frac{3}{8}$	
B	17 $\frac{1}{4}$	
C	5 $\frac{1}{2}$	7 $\frac{3}{8}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on left joint of tread
3 spalls on nosing
Chipped corner top right of riser
Spall on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

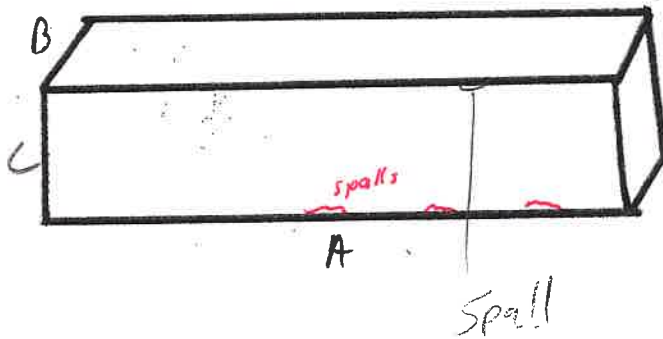
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-29-22

WDP/GSD Representative: P Dillon (Print) [Signature] (Signed) Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L/5

SKETCH



Stone ID No.

42KW

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/8	
C	5 1/2	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on nosing right side

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

P Dillon
(Print)

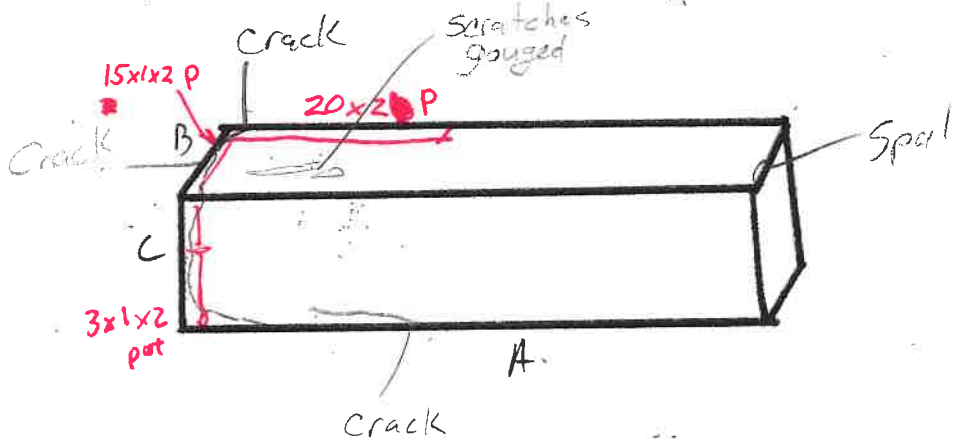
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L/1 (No end)

SKETCH



Stone ID No.

42ME

Location	Length (in)	
Overall Dimensions:		
A	66 1/2	
B	17 1/8	
C	5 1/2	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Cracking back left corner of tread, left joint of tread + left joint of riser
- scratches/gouges left side of tread
- Crack along bed joint left side of riser
- Spall on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 76 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

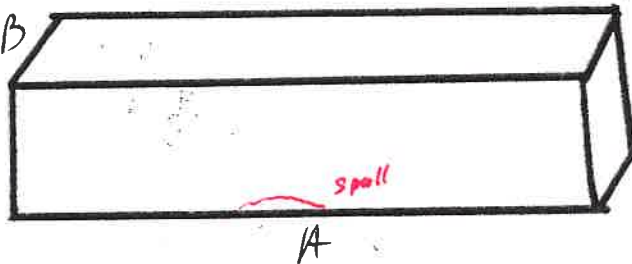
Date: 9/19/22

Stone Survey Sheet

Location Drawing 04,01
Storage Drawing D/L/A

SKETCH

Stone ID No.
42MW



Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/4	
C	5 1/2 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

P. Dillon
(Print)

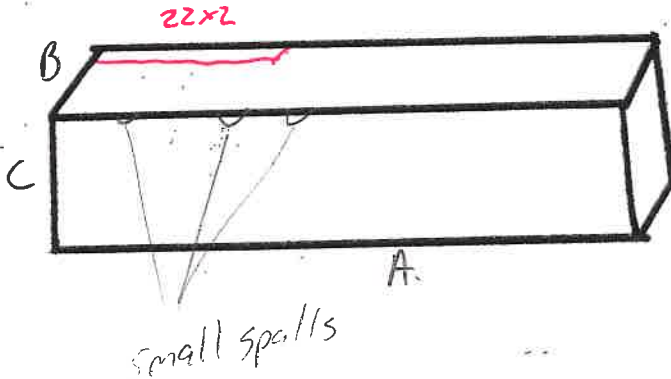
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L/2

SKETCH



Stone ID No.
42PE

Location	Length (in)	
Overall Dimensions		
A	72 7/8	
B	17 3/8	
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

3 small spalls on nosing left side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4.4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson

(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative: P. Dillon

(Print)

(Signed)

Date: 9/19/22

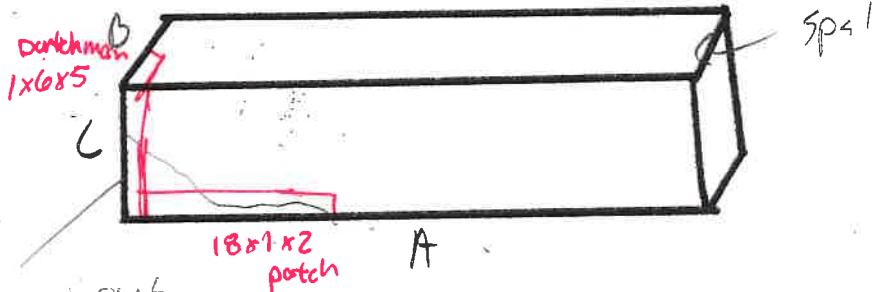
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/L/3

SKETCH

Stone ID No.

42PW



Location.	Length (in)	
Overall Dimensions		
A	72 13/16	
B	17 5/16	
C	5 1/2	8 1/6
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous Patch bottom left of riser
Spall on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Dutchman: 30 in³
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 36 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

P Dillen
(Print)

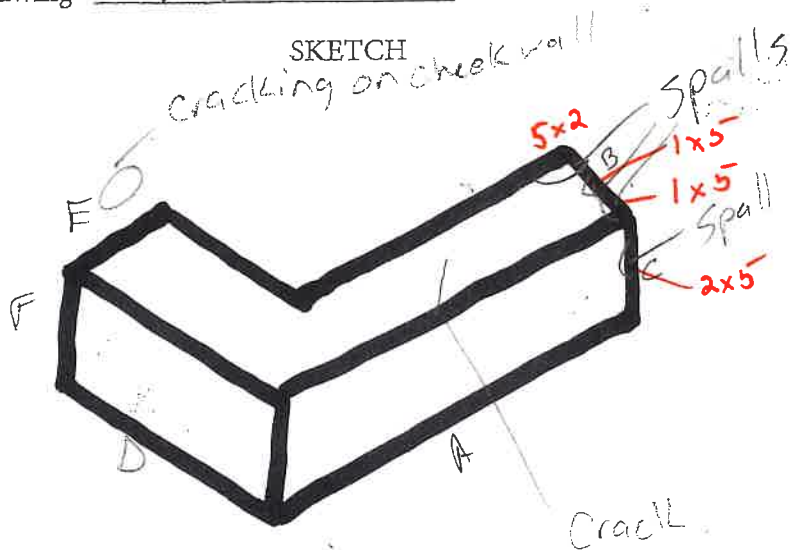
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/S/7

Stone ID No.
43CE



Location	Length (in)	
Overall Dimensions		
A	81 ⁷ / ₈	
B	17 ¹ / ₄	
C	5 ³ / ₈ 7 ¹ / ₈	
	Left	Right
D	30 ¹ / ₂	
E	17 ³ / ₈	
F	8 ¹ / ₈	
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack on right side of tread
Spalls on right joint of tread
Spall back right corner of tread
Spall on right head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 30 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Miller
(Print)

(Signed)

Date: 9-19-22

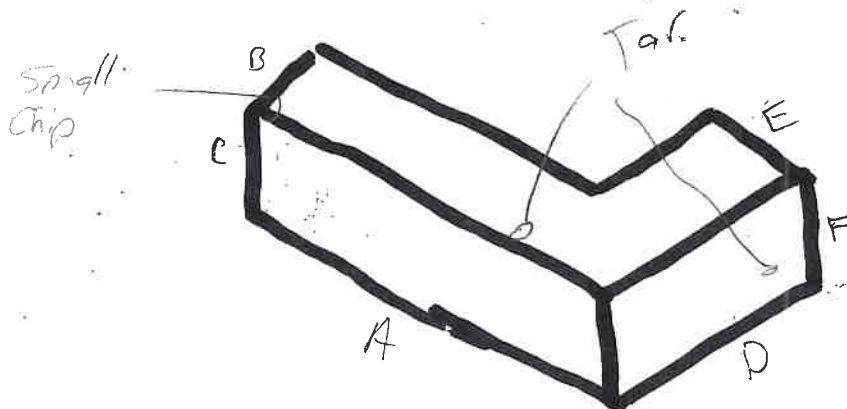
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1K16

Stone ID No.

43CW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	81 $\frac{7}{8}$	
B	17 $\frac{1}{2}$	
C	5 $\frac{1}{2}$	36 $\frac{5}{8}$
D	28 $\frac{7}{8}$	
E	17 $\frac{1}{2}$	
F	5 $\frac{1}{2}$	8
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chip Top left corner of riser
Tar spot on tread + small spot on west face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

A. Ila

(Print)

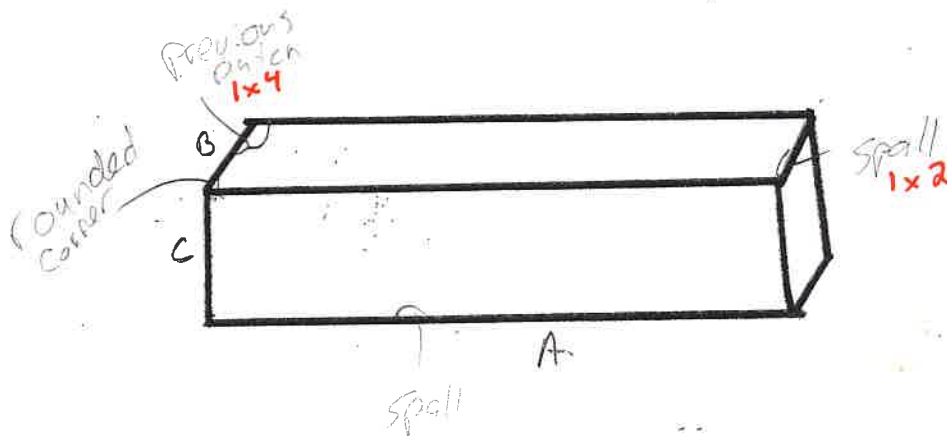
(Signed)

Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D15/8

SKETCH



Stone ID No.

43 EE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall bed joint of riser left of center
Previous patch back left corner of tread
Rounded corner top left of riser
Spall right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chilla
(Print)

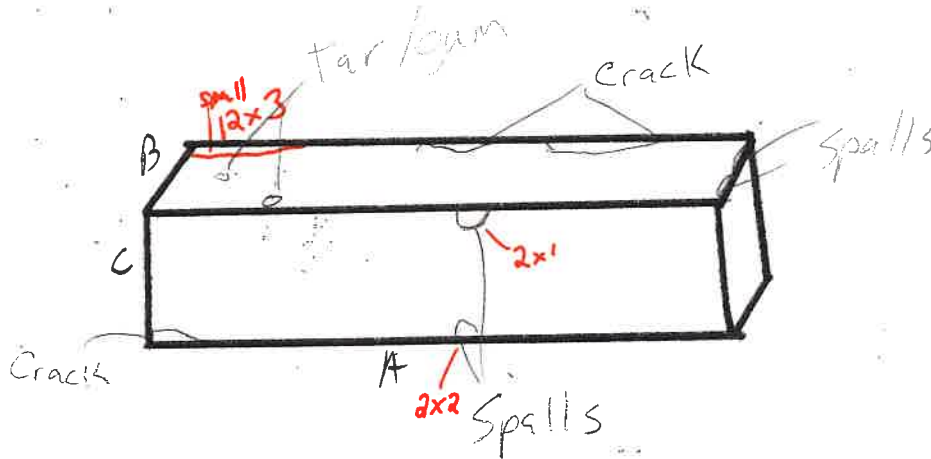
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Date: 9-18-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/K15

SKETCH



Stone ID No.

43EW

Location	Length (in)	
Overall Dimensions		
A	65 1/2	
B	17 1/4	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 tar spots left side of tread
Crack bottom left side of riser
Cracks along back joint of tread
2 spalls right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 42 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

Avilla
(Print)

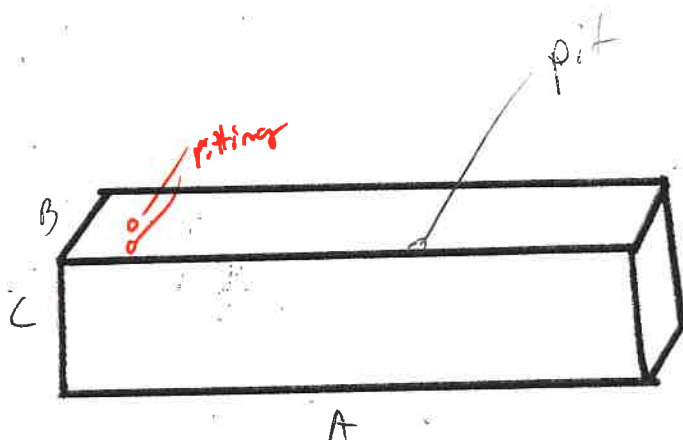
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing P/J/1

SKETCH



Stone ID No.

43 GE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Pit on tread right of center at nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Cviller
(Print)

(Signed)

Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/K/4

SKETCH



Stone ID No.

43 GW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WEP/GSD Representative:

(Print)

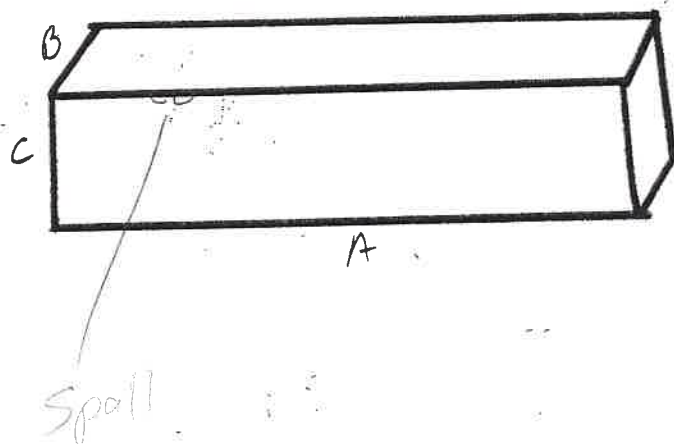
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1510

SKETCH



Stone ID No.

43JE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 5/16	
C	5 1/2	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 small spalls on nosing left side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Willie
(Print)

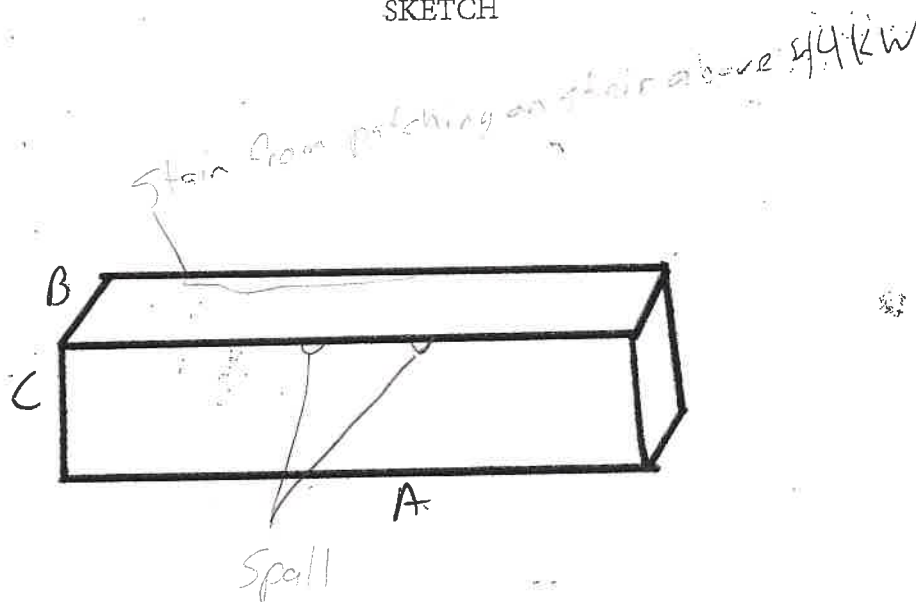
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 01K13

SKETCH



Stone ID No.

43 JW

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
E	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 spalls on nosing
Stain from patch on stair above (44KW) on back joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chilla
(Print)

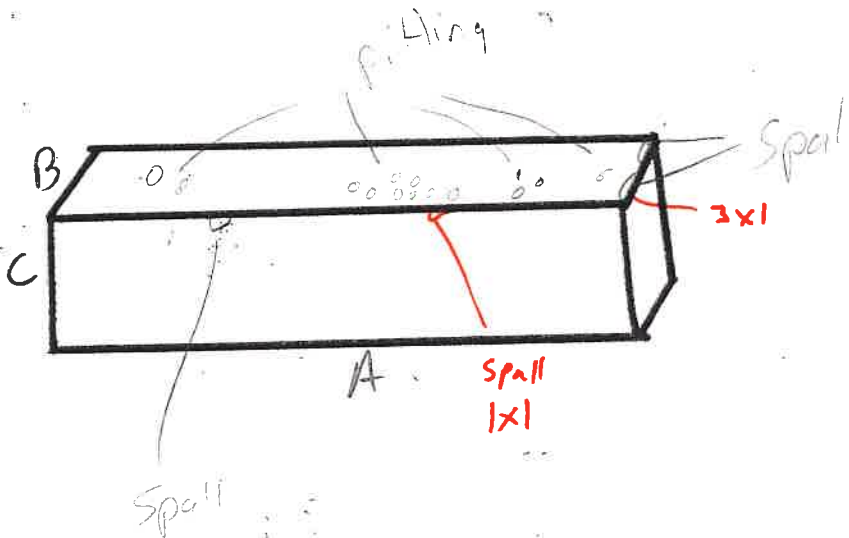
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D15/11

SKETCH



Stone ID No.

43LE

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/4	
C	5 1/2	7 3/4 P
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on nosing left side
Spall on right joint on tread
Pitting all along tread
Spall back right of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

CVilla
(Print)

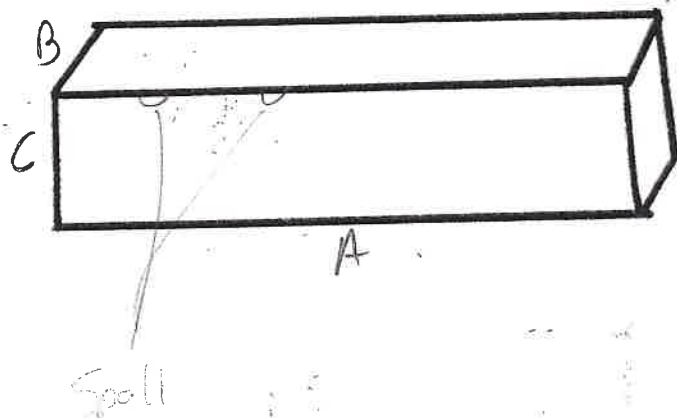
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/K/2

SKETCH



Stone ID No.

43 LW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ⁷ / ₈	
C	5 ¹ / ₄	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Weathering; ripples on tread
2 spalls on nosing left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chilla
(Print)

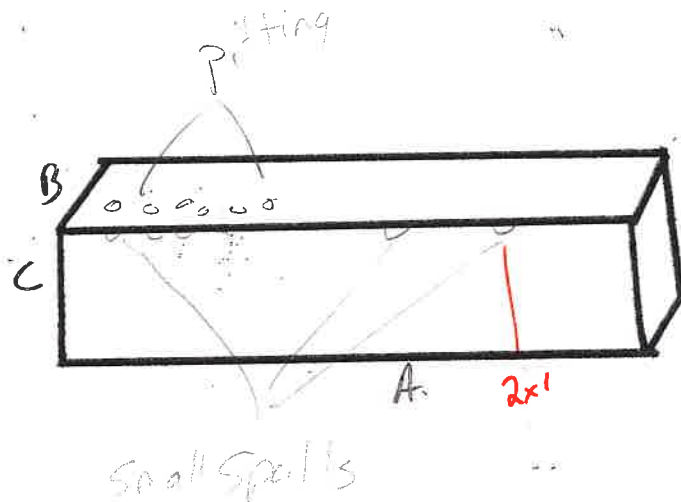
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Date: 9-14-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D15/12

SKETCH



Stone ID No.

43NE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₄	
C	5 ³ / ₈	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Pitting on left side of tread
Several small spalls on nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

(Print)

Cviller

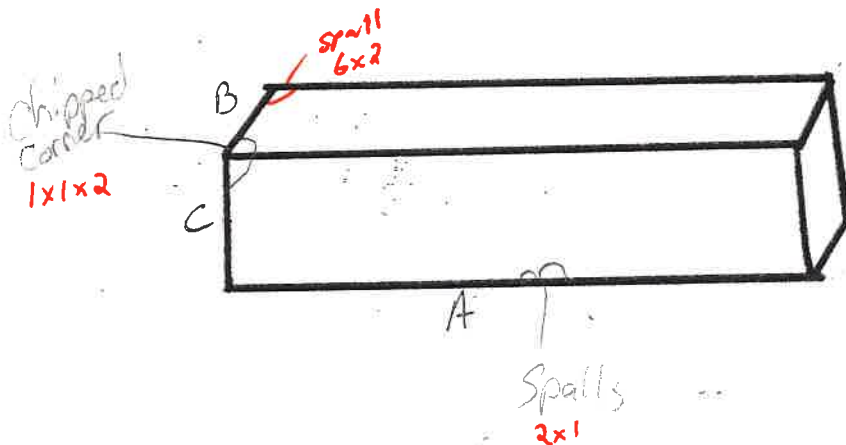
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/K/1

SKETCH



Stone ID No.

43 NW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner top left of riser
2 spalls center of bed joint on riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 16 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

Cuilla
(Print)

(Signed)

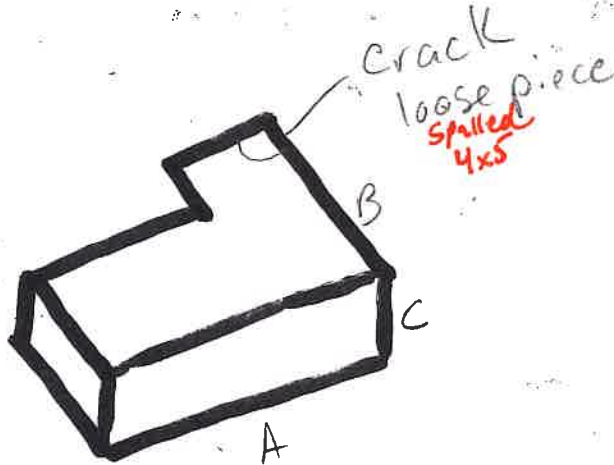
Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/E/7

Stone ID No.
44CE

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	32 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Crack with loose piece back right corner of head

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 20 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chiller
(Print)

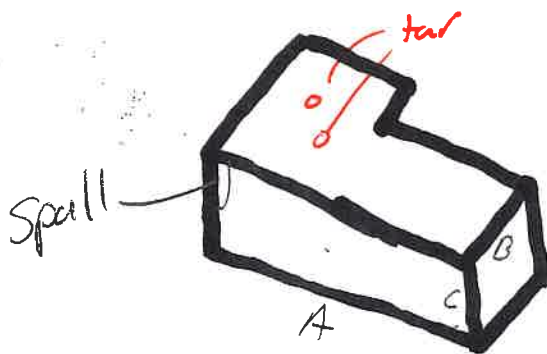
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 01516

SKETCH



Stone ID No.

44BW

Location	Length (in)	
Overall Dimensions		
A	32 5/8	
B	17 3/8	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall left head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-29-22

WDP/GSD Representative:

Avilla
(Print)

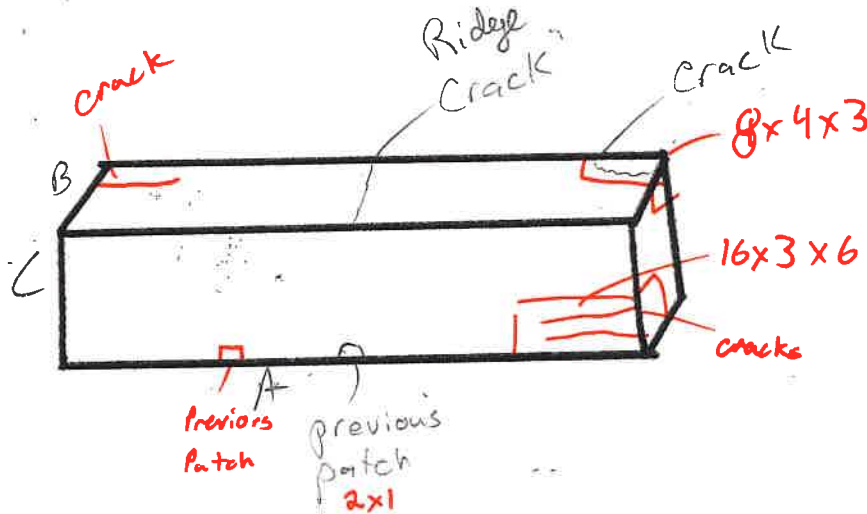
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(Signed)

Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/I/8

SKETCH



Stone ID No.

44 DE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂ 7 ⁷ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Ridge/crack center of tread
- Crack along back joint of tread right side near corner
- Previous patch center of bed joint of riser
- cracks along front right of nose

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 386 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Criller
(Print)

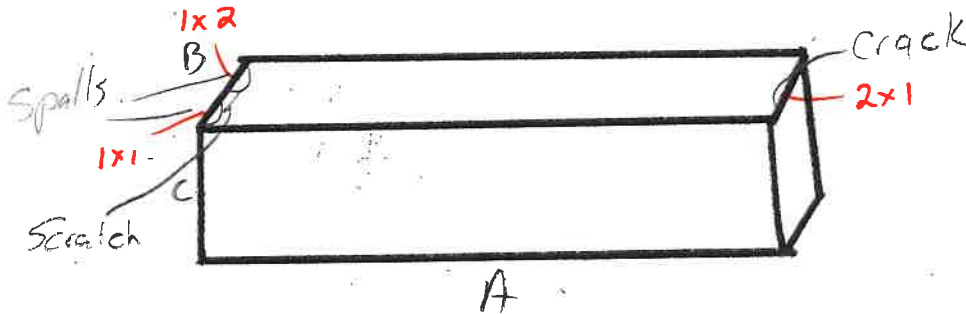
(Signed)

Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1515

SKETCH



Stone ID No.

44 DW

Location	Length (in)	
Overall Dimensions		
A	65 1/8	
B	17 3/8	
C	5 7/8	7 3/4 7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 spalls on left joint of tread with scratch running between
Crack on right joint of tread with loose piece

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 5 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Cviller
(Print)

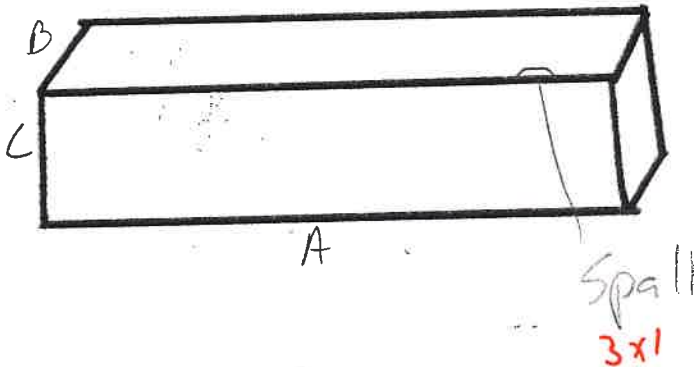
(Signed)

Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/I/9

SKETCH



Stone ID No.

44FE

Location	Length (in)	
Overall Dimensions		
A	6 1/2	
B	17	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on right side of nosing/tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

Miller
(Print)

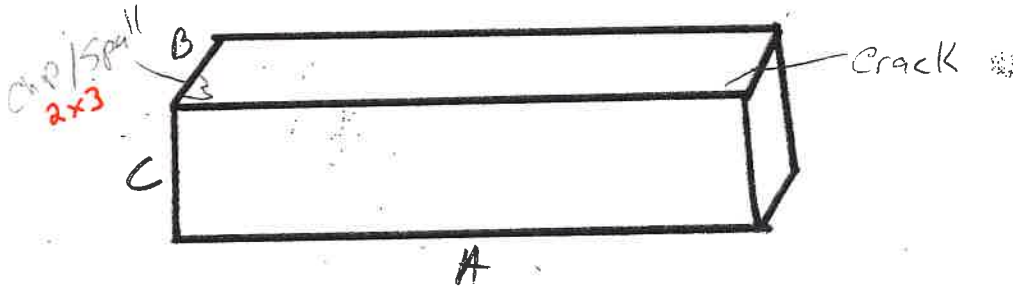
(Signed)

Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1514

SKETCH



Stone ID No.

44 FW

Location.	Length (in)	
Overall Dimensions		
A	67	
B	17 1/4	
C	5 3/8	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip or spall left front corner 2x3 read at joint
Small crack on right joint 2x1 read near front

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-29-22

WDP/GSD Representative:

Willie
(Print)

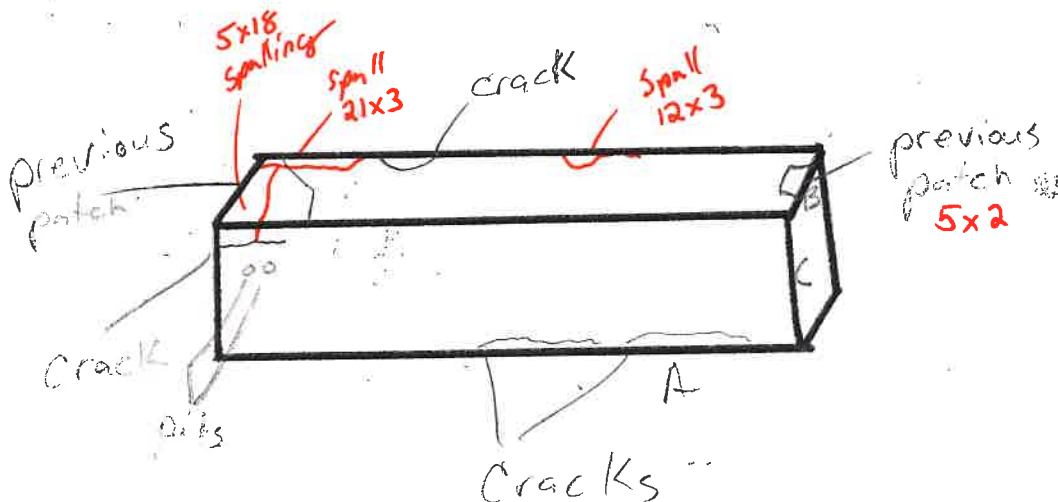
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(Signed)

Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/E/10

SKETCH



Stone ID No.

44 HE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₄	
C	5 ¹ / ₄	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large previous patch left side of tread at joint
Crack along back joint of tread left side
Previous patch right joint of tread; crack + deteriorating
Cracks along bed joint of riser riser
Crack top left face of riser at corner
2 pits top left face of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 199 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Critter
(Print)

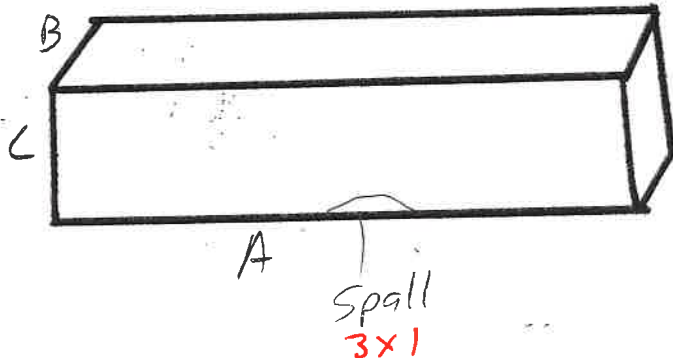
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Date: 9-14-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D15/3

SKETCH



Stone ID No.

44 HW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	8 ⁷ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on bed joint of riser near center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Avilla
(Print)

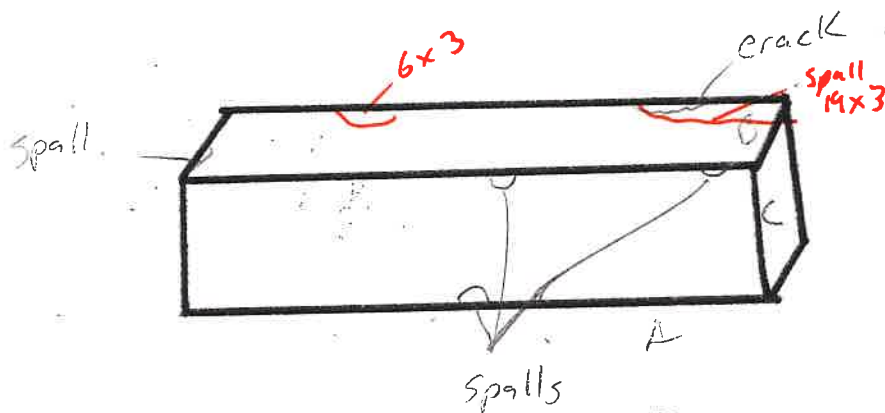
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/E/11

SKETCH



Stone ID No.

44 KE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/4	
C	5 1/2	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall left joint of tread
Spall right of center of bed joint of riser
2 spalls on nosing right side
Crack along back joint of tread right side

- Stone cleaning recommended Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 7.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

(Print)

CM/11

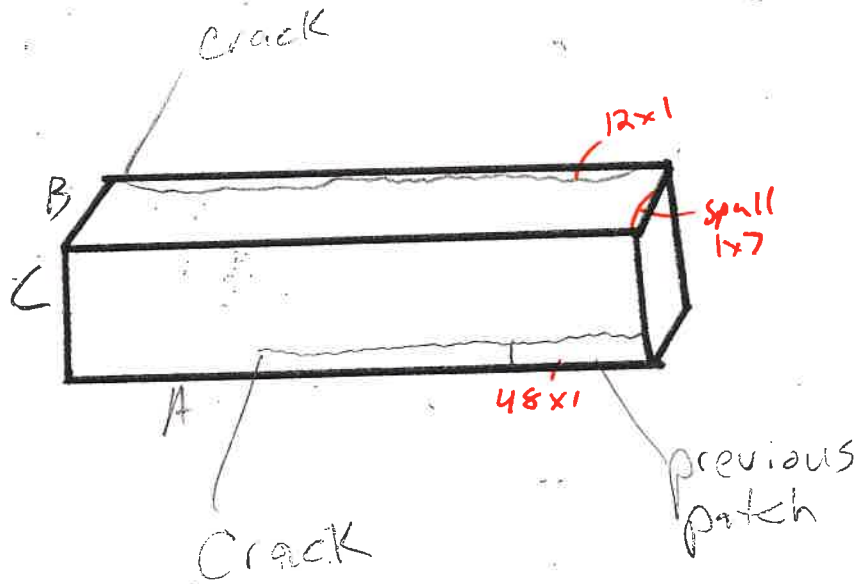
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1512

SKETCH



Stone ID No.

44 KW

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/2	
C	5 3/8	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack along back joint entire length
Crack along bed joint of riser; starting left side running to right head joint
Previous patch bottom of right side of riser.

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6.7 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WEP/GSD Representative:

ev.lla
(Print)

(Signed)

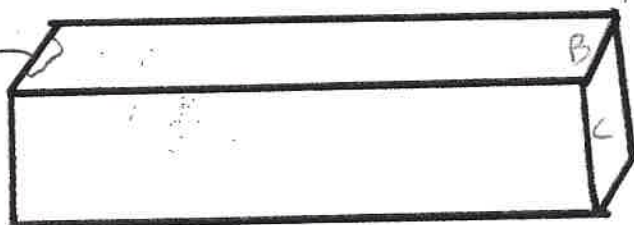
Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/I/12

SKETCH

Crack
loose
piece
1x4



A

Stone ID No.

44 ME

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ³ / ₈	7 ¹ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack left joint of tread w. loose piece

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

(Print)

William

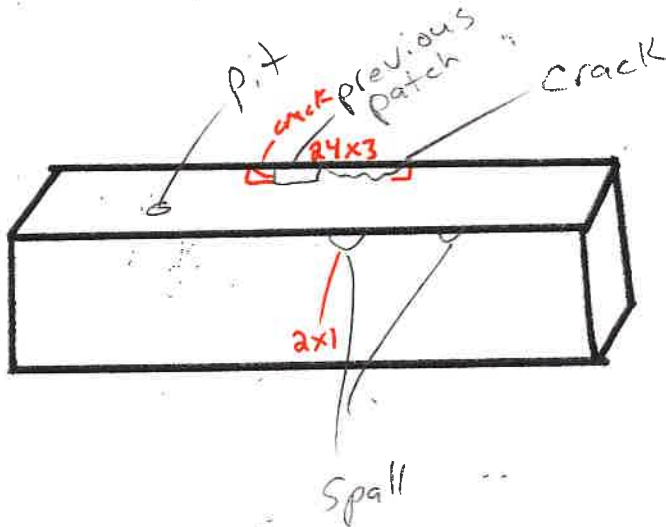
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D401
Storage Drawing D.1511

SKETCH



Stone ID No.

44 MW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ³ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Pit left side of tread
Previous patch back joint of tread near center
Crack back joint of tread right of center
2 spalls on nosing right side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 74 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

Crill
(Print)

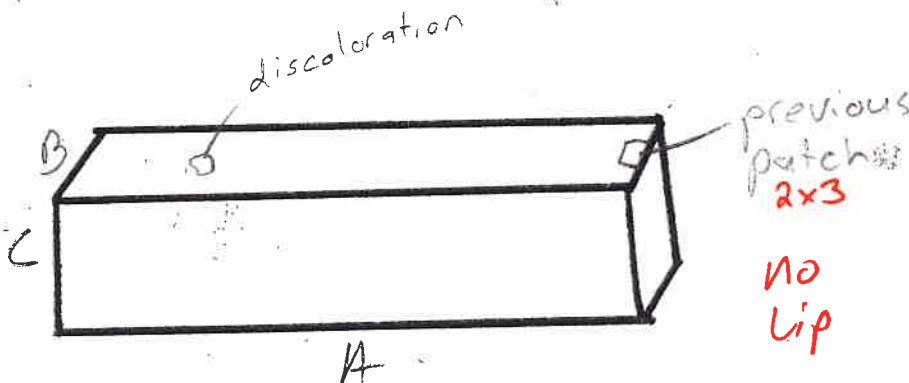
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 01E/12

SKETCH



Stone ID No.

44 PE

Location	Length (in)	
Overall Dimensions		
A	73 ³ / ₈	
B	17 ¹ / ₂	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Overall Weathering; Pitting
previous patch right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

3/1/21
(Signed)

Date: 8-29-22

WDP/GSD Representative:

CVilla
(Print)

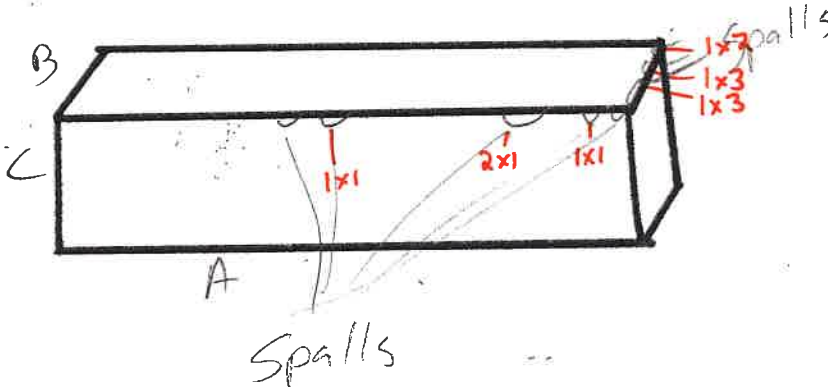
CVT 2/1
(Signed)

Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/I/14

SKETCH



Stone ID No.

44 PW

Location	Length (in)	
Overall Dimensions:		
A	72 $\frac{3}{4}$	
B	17 $\frac{1}{8}$	
C	5 $\frac{1}{2}$	8 $\frac{7}{16}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

5 Spalls all along nosing
3 Spalls on right joint of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 12 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

OWilla
(Print)

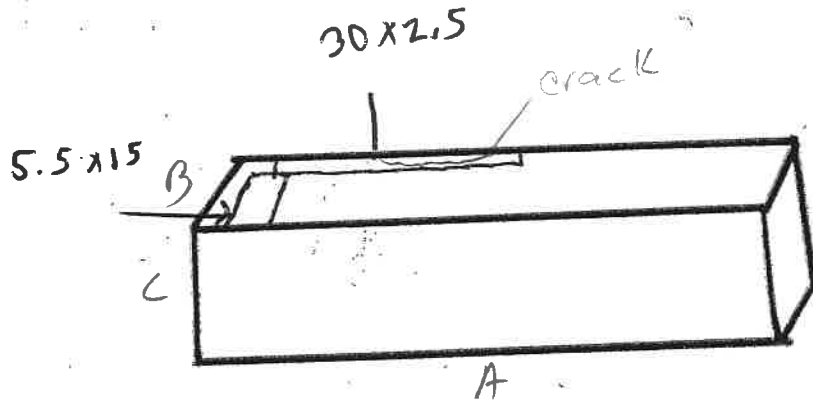
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Date: 9-19-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D49

SKETCH



Stone ID No.

45 CE

Location	Length (in)	
Overall Dimensions		
A	57	
B	17 1/4	
C	5 1/2	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack along back joint of tread left side

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair: 0
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1.575 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lihman
(Print)

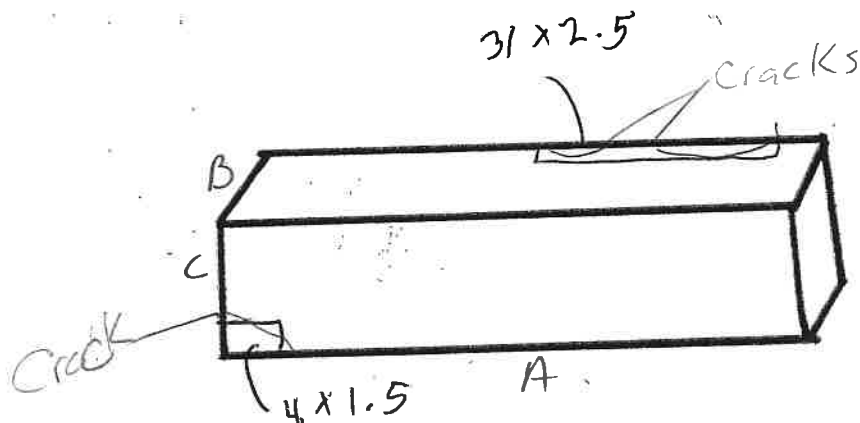
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D16

SKETCH



Stone ID No.

45CW

Location	Length (in)	
Overall Dimensions		
A	57	
B	17 $\frac{3}{8}$	
C	5 $\frac{3}{8}$	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack bottom left corner of riser
2 cracks along back joint of tread right side

- Stone cleaning recommended: ~~Minor~~ / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 83.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

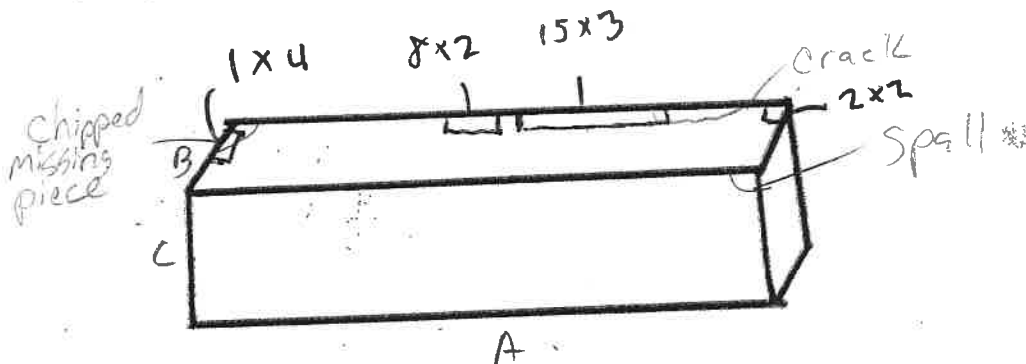
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PH 10

SKETCH



Stone ID No.

45 EE

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/4	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chipped back left corner of tread with missing piece
Crack along back joint of tread right side
Spall top right corner of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair A

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 6.9 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WEP/GSD Representative:

Chris Lehman
(Print)

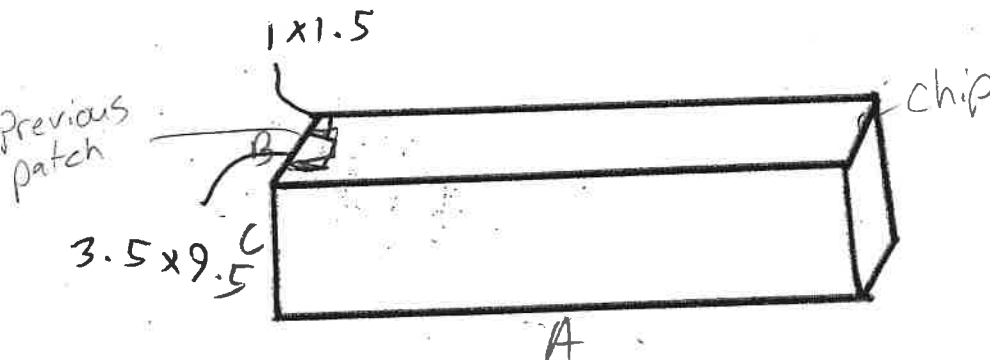
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D15

SKETCH



Stone ID No.

45 EW

Location	Length (in)	
Overall Dimensions		
A	65 1/2	
B	17 3/4	
C	5 1/2 7 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Major Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous Patch left joint of tread
small chip right joint of tread near back

- Stone cleaning recommended Minor / Moderate to heavy
- Type of repair
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 34.75 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

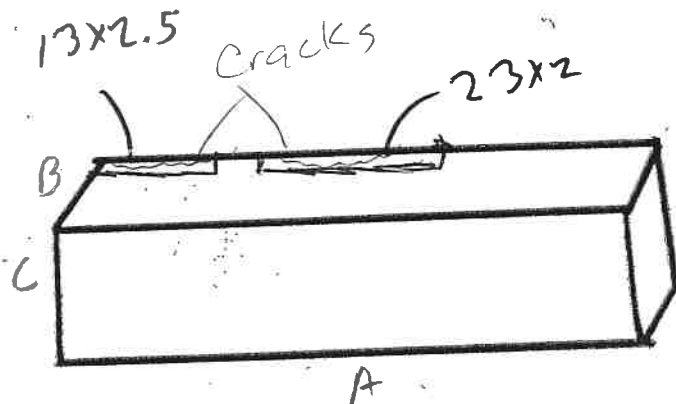
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 0411

SKETCH



Stone ID No.

45GE

Location.	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/4	
C	5 3/8	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 cracks along back joint of head left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 78.5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

Chris Lphman
(Print)

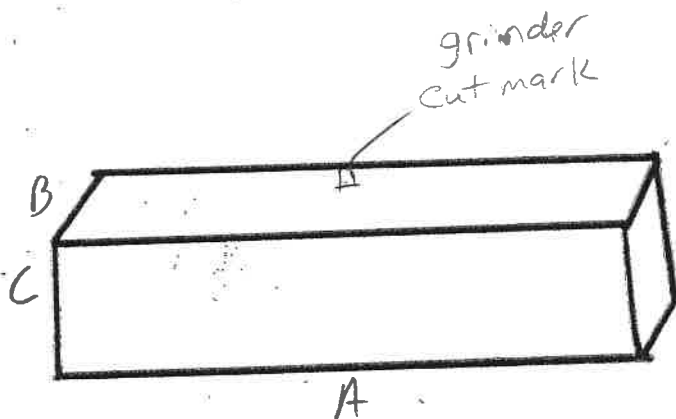
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D14

SKETCH



Stone ID No.

45GW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ³ / ₈	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Cut mark from grinder back center of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WEP/GSD Representative:

Chris Lehman
(Print)

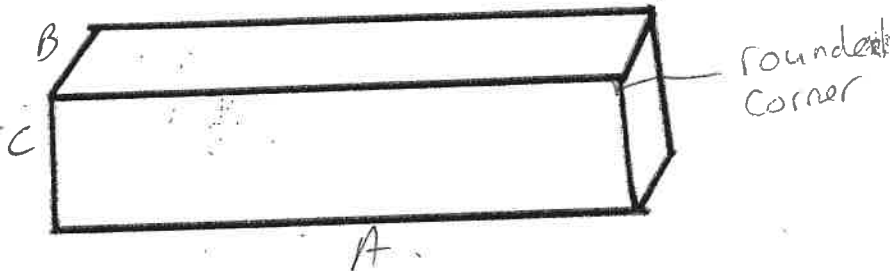
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DH12

SKETCH



Stone ID No.

45JE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₄	
C	5 ³ / ₈	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rounded corner top right of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 013

SKETCH



Stone ID No.

45 JW

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	16 1/2	
C	5 1/2	7 3/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDF/GSD Representative:

Chris Lehman
(Print)

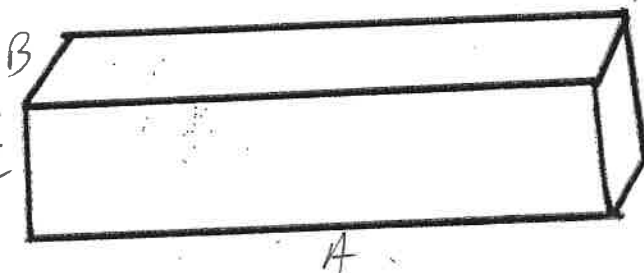
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing OH13

SKETCH



Stone ID No.

45LE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lphman
(Print)

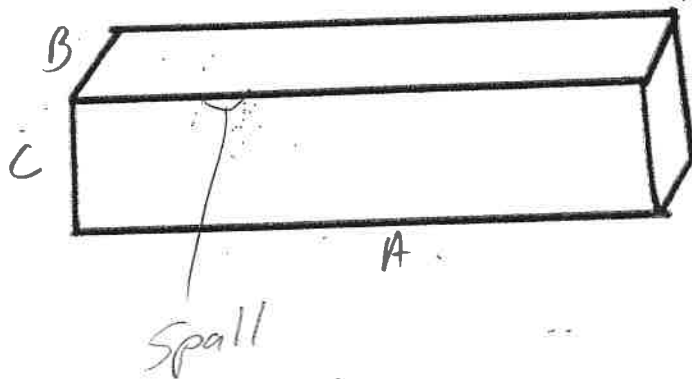
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D12

SKETCH



Stone ID No.

45ZW

Location	Length (in)	
Overall Dimensions		
A	6.7	
B	17 3/8	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall left side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

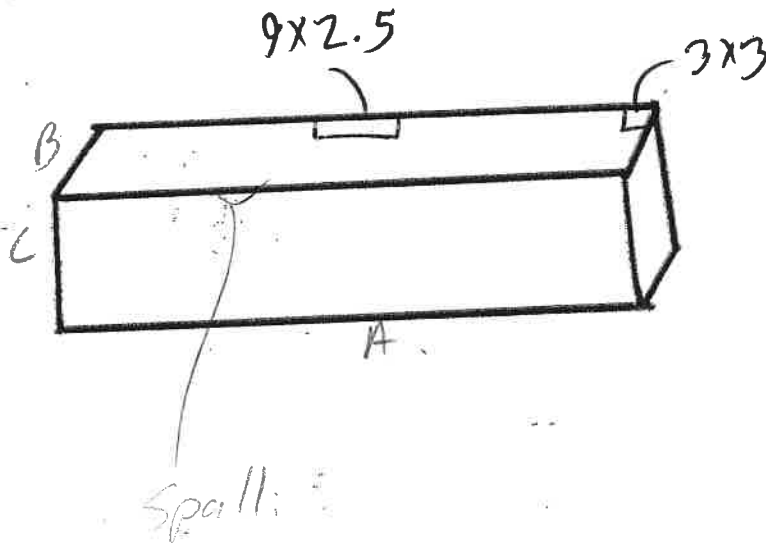
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DA14

SKETCH



Stone ID No.

45NE

Location	Length (in)	
Overall Dimensions		
A	67 1/16	
B	17 1/2	
C	5 1/4	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on nosing left side

*Stone cleaning recommended: Minor / Moderate to heavy

*Type of repair

*Patching required? Yes / No (if yes, shade the area on the sketch)

*Volume of Patching: 21.5 [in³]

To be documented on ground after handling and storage

*Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

Chris Ullman
(Print)

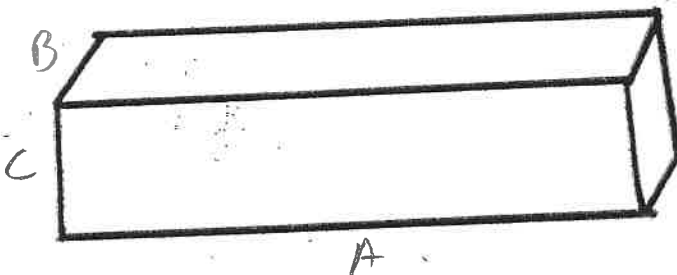
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PI 1

SKETCH



NO Lip

Stone ID No.

45 NW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall Weathering; Pitting

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDF/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/19/22

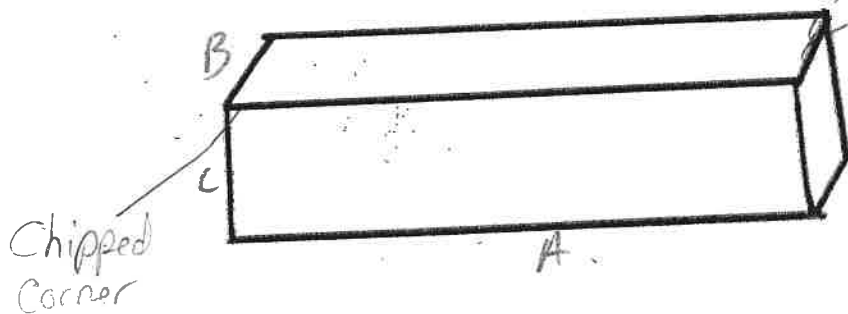
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PH15

SKETCH

Stone ID No.

45Q



Location	Length (in)	
Overall Dimensions		
A	78 ³ / ₈	
B	17 ¹ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Overall Weathering; Pitting
Chipped corner top left of riser
2 small spalls right joint of tread near back

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WEP/GSD Representative:

Chris Lehman
(Print)

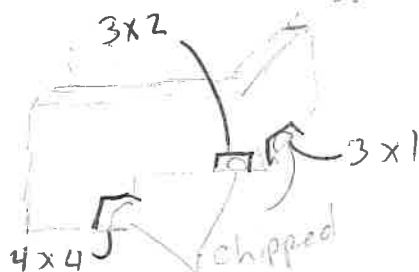
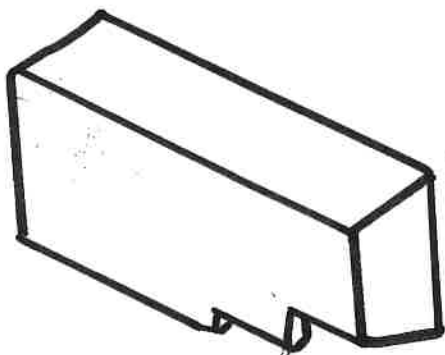
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.03
Storage Drawing _____

SKETCH



Stone ID No.

45YE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chips on bottom edge of south face & west face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 21 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative: Chris Lehman
(Print)

(Signed)

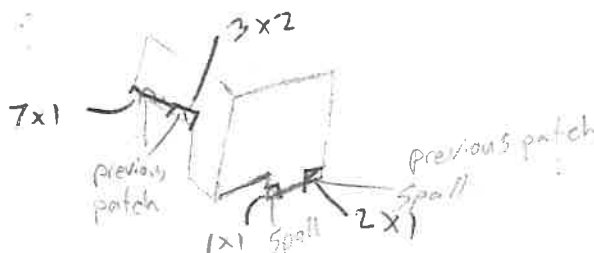
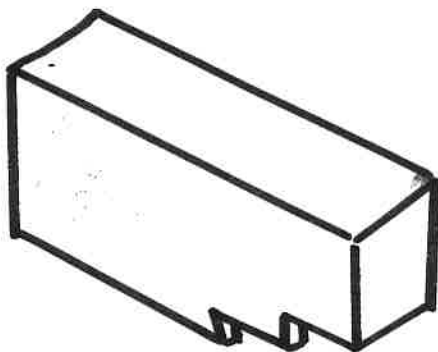
Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

45YW

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous patching along bottom joint at stair meeting east face
 Spall on corner at joint at stair meeting on south face
 previous patch spalled bottom right corner of south face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 16 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
 (Print)

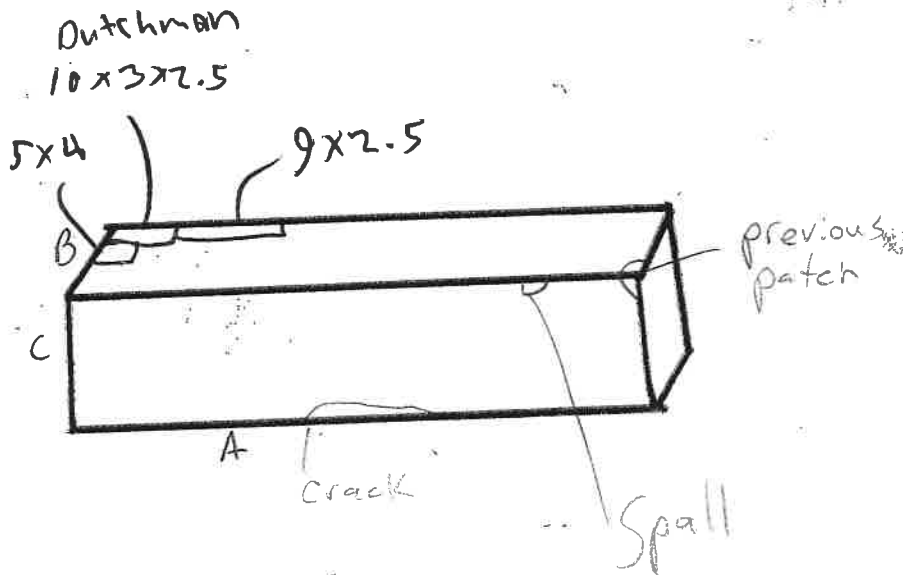
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Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DG10

SKETCH



Stone ID No.

46 BE

Location	Length (in)	
Overall Dimensions		
A	23 1/8	
B	17 3/8	
C	5 1/8 7 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack near center of bed joint of riser
Spall on nosing right side
Previous Patch right front corner of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 117.5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

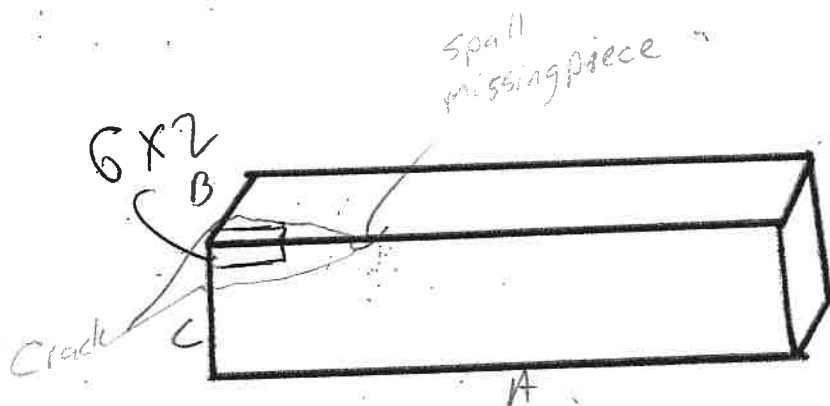
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DA8

SKETCH



Stone ID No.

46 BW

Location.	Length (in)	
Overall Dimensions		
A	23 3/4	
B	17 3/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack on top left corner of riser & front left corner of tread
missing piece

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 12 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

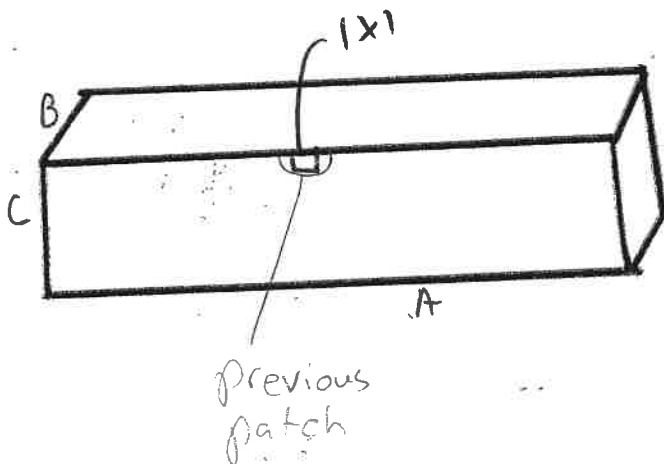
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DG11

SKETCH



Stone ID No.

46 DE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₄	
C	5 ¹ / ₂ 7 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous patch left side of rising

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 1 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

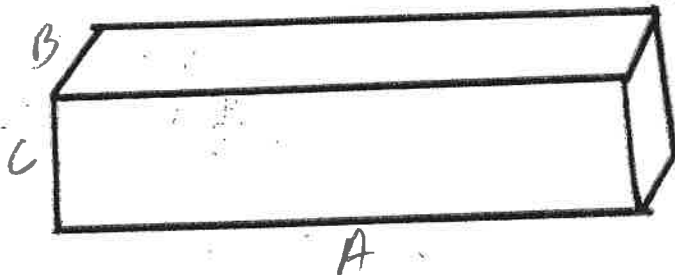
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 047

SKETCH



Stone ID No.

46 DW

Location	Length (in)	
Overall Dimensions		
A	65 1/4	
B	17 3/8	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

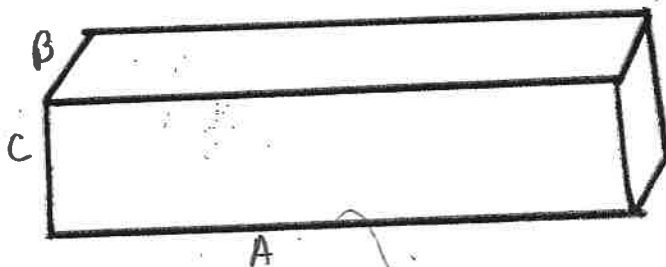
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 0612

SKETCH



Stone ID No.

46 FE

Location.	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₄	
C	5 ³ / ₈ 7 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spall center of bed joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

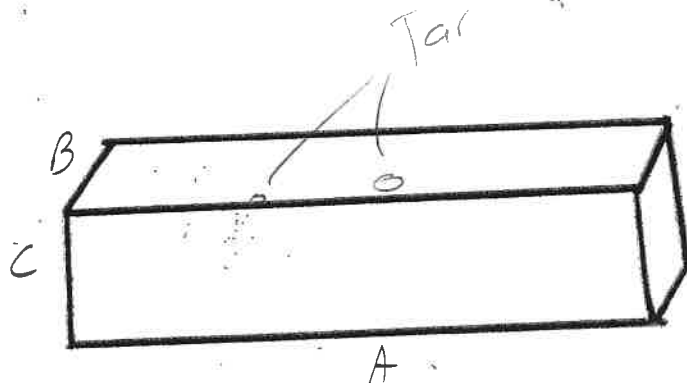
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing DHC

SKETCH



Stone ID No.

46 FW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Tar spots on tread near center

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBF/GSD Representative:

Chris Lehman
(Print)

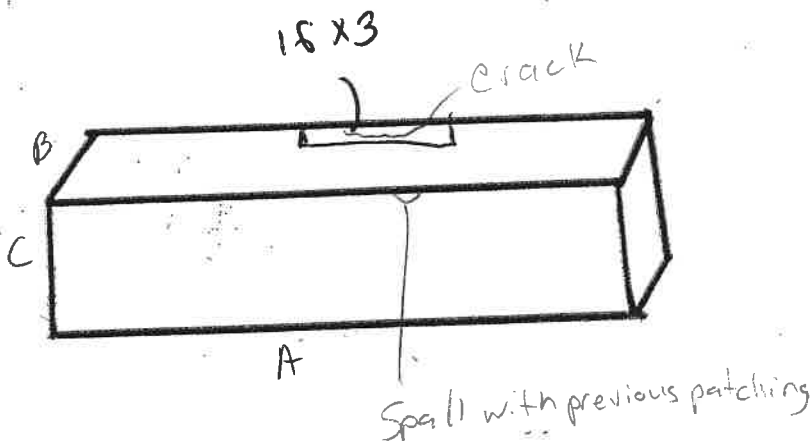
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DG13

SKETCH



Stone ID No.

46 HE

Location.	Length (in)	
Overall Dimensions:		
A	66 7/8	
B	17 3/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack along back joint of tread
Spall with previous patching right of center of nosing.

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 4.8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WEP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DA5

SKETCH



Stone ID No.

46 HW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lihman
(Print)

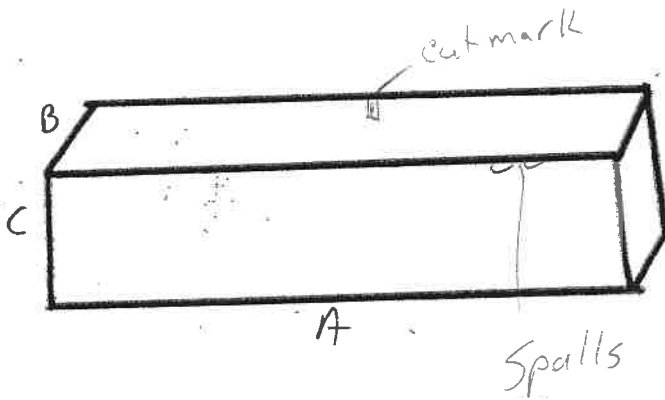
(Signed)

Date: 9/10/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PG14

SKETCH



Stone ID No.

46 KE

Location.	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 7/16	
C	5 1/2	8 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small grinder cut mark on tread back center
2 small spalls right side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-27-22

WEP/GSD Representative:

Chris Lehman
(Print)

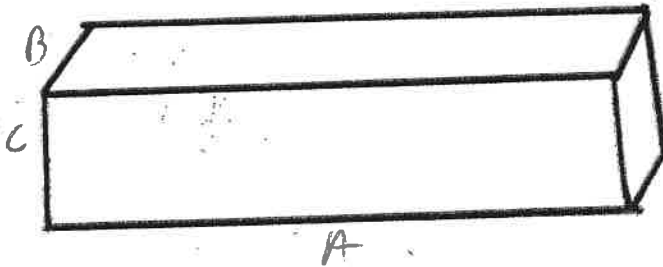
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Date: 9/10/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DH4

SKETCH



Stone ID No.

46KW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDF/GSD Representative:

Chris Lehman
(Print)

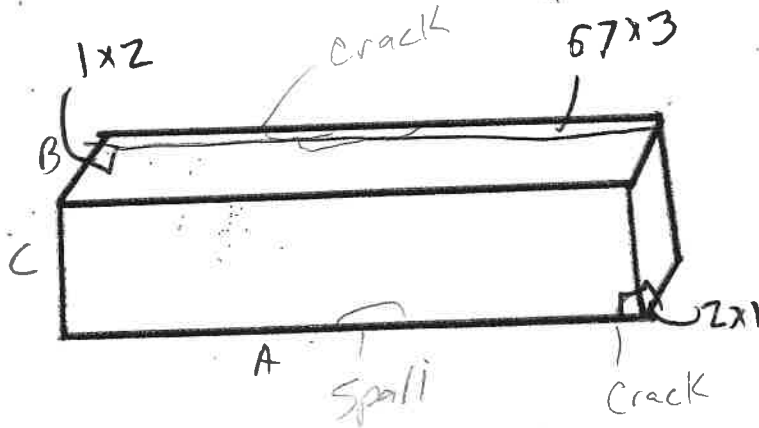
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DG15

SKETCH



Stone ID No.

46 ME

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ¹ / ₂
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on center of bed joint of riser
Crack on bottom right corner of riser
Cracking along back joint of tread left of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 205 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDF/GSD Representative:

Chris Lphman
(Print)

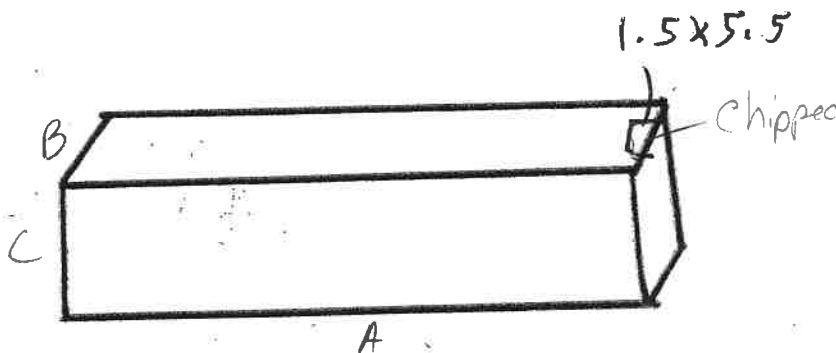
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D43

SKETCH



Stone ID No.

46 MW

Location.	Length (in)	
Overall Dimensions		
A	67 1/8	
B	17 3/8	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped area on right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8.25 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WBP/GSD Representative:

Chris Uhman
(Print)

(Signed)

Date: 9/19/22

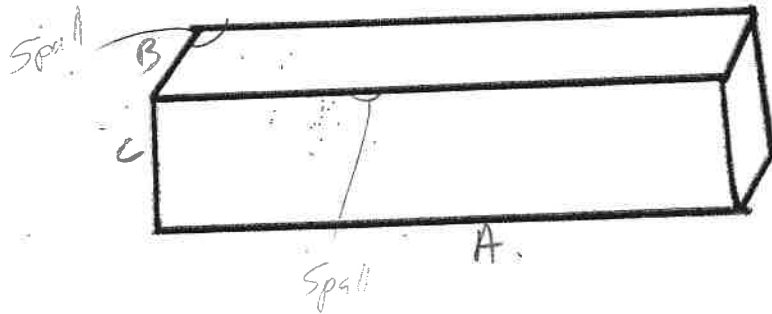
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DA1

SKETCH

Stone ID No.

46 PE



Location.	Length (in)	
Overall Dimensions		
A	73	
B	17 3/8	
C	5 1/2 7 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on back left corner of tread
Small spall on nosing left of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

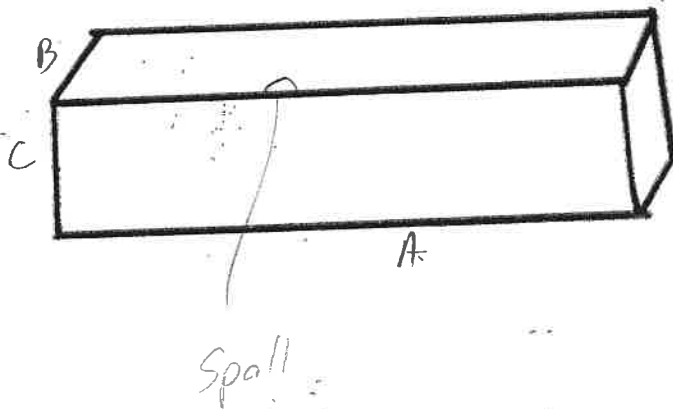
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Date: 9/10/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 042

SKETCH



Stone ID No.

46PW

Location	Length (in)	
Overall Dimensions		
A	73	
B	17 3/8	
C	5 3/8 7 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on nosing/tread left side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

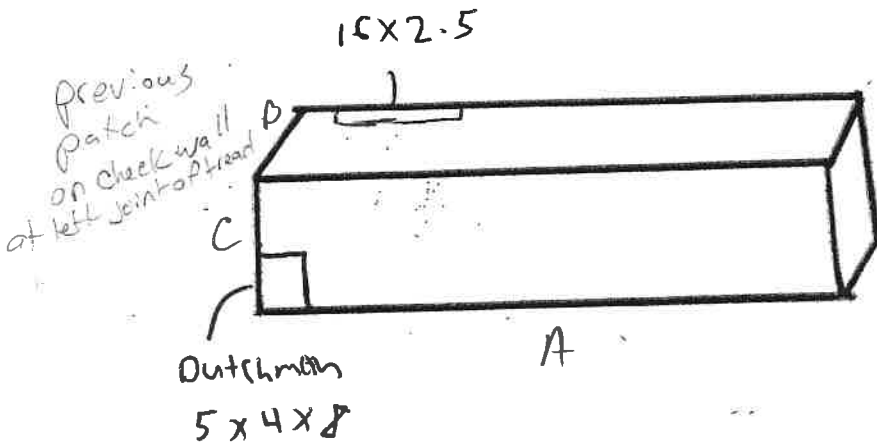
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DF12

SKETCH



Stone ID No.

47CE

Location.	Length (in)	
Overall Dimensions		
A	62	
B	17 3/4	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 200 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

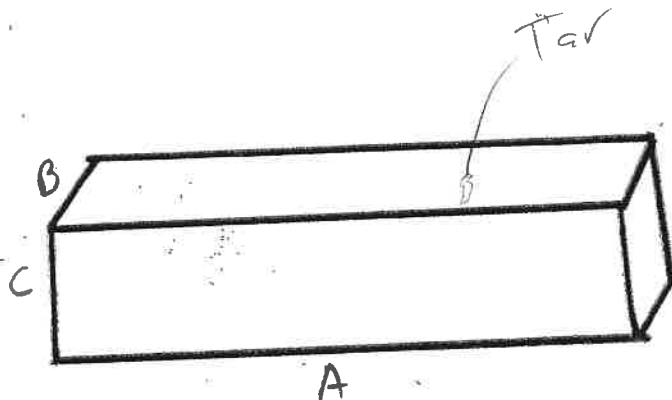
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Date: 9/10/22

Stone Survey Sheet

Location Drawing D401
Storage Drawing DG 9

SKETCH



Stone ID No.

47 CW

Location	Length (in)	
Overall Dimensions		
A	61 5/16	
B	17 1/2	
C	5 1/2 7 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Tar spot right side of tread

Chip and Crack on cheek wall at joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Chapman

(Print)

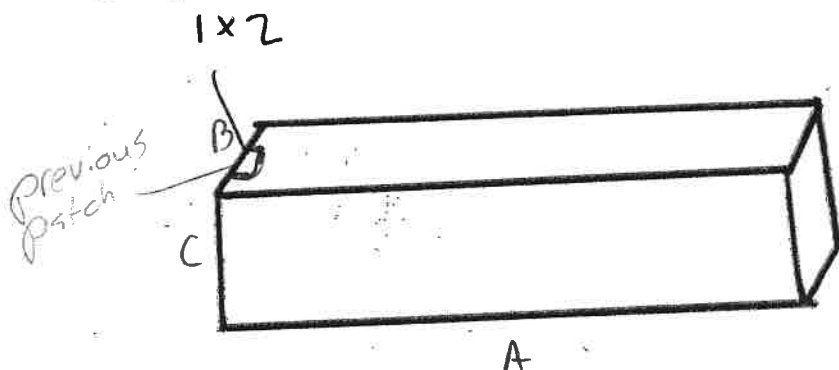
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DG8

SKETCH



Stone ID No.

47EW

Location.	Length (in)	
Overall Dimensions		
A	65 1/4	
B	17 1/2	
C	5 3/8	7 3/8
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous Patch right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

Chris Lihman
(Print)

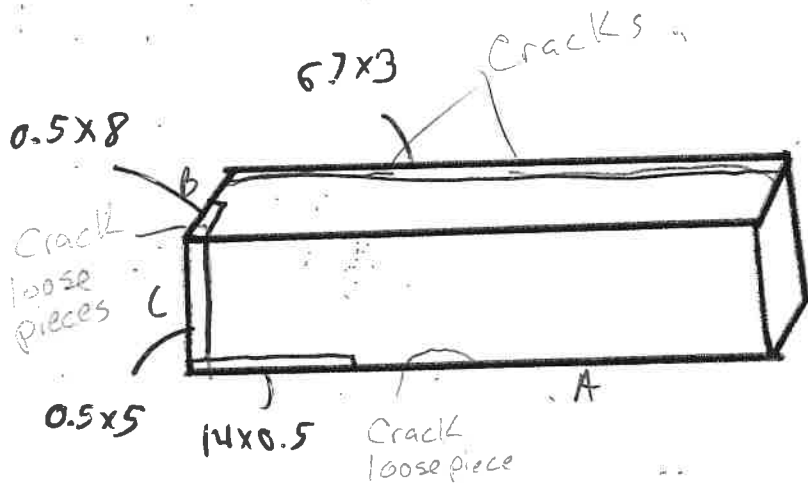
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DF14

SKETCH



Stone ID No.

47 GE

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 5/16	
C	5 7/16	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Cracking along back joint of tread + both corners
Crack on center of bed joint with loose piece
Crack left head joint of riser with loose pieces

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 214.5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor) Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

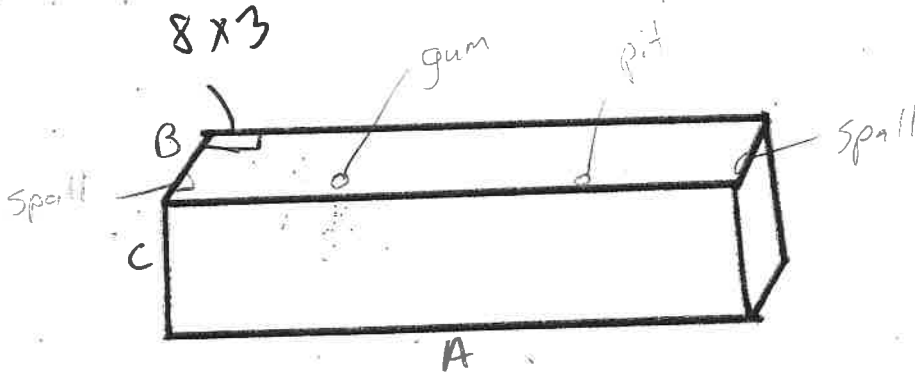
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D67

SKETCH



Stone ID No.

47 GW

Location	Length (in)	
Overall Dimensions		
A	67 1/16	
B	17 1/4	
C	5 3/8 7 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Pitting on face of riser; Pit on right of tread
gum spot on left front of tread
Spall on left joint of tread near front
Spall on right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2.4 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WBP/GSD Representative:

Chris Lehman
(Print)

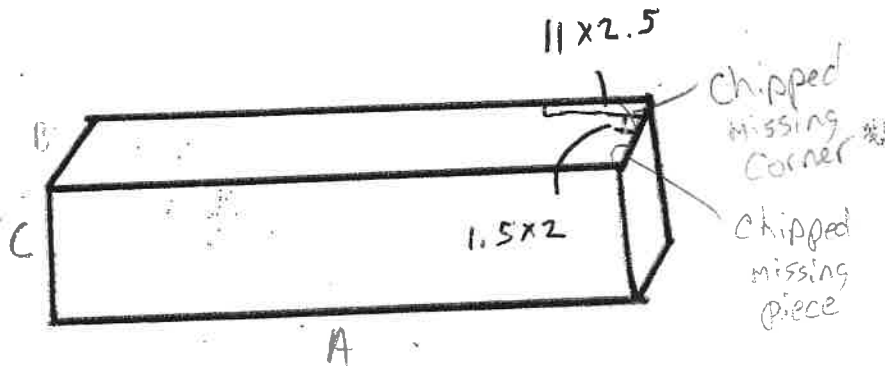
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DF15

SKETCH



Stone ID No.

47JE

Location	Length (in)	
Overall Dimensions		
A	66 $\frac{1}{2}$	
B	17 $\frac{1}{4}$	
C	5 $\frac{5}{16}$	7 $\frac{1}{2}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner back right of tread; missing piece
Chipped at right joint of tread near front corner; missing piece

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair:

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 30.5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris LPhman

(Print)

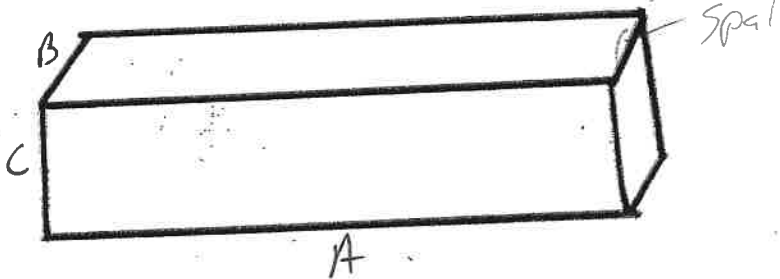
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DG6

SKETCH



Stone ID No.

47 JW

Location.	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₄	
C	55 ⁵ / ₈ 75 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Material Details		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Pitting on face of riser
Spall right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

Chris Lehman
(Print)

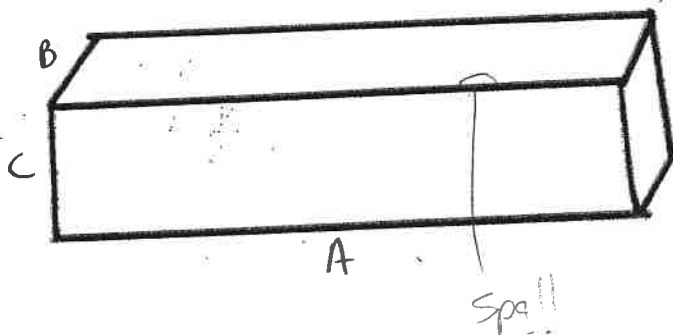
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Date: 9/9/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing OGI

SKETCH



Stone ID No.

47 LE

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/4	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints:		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on nosing right side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

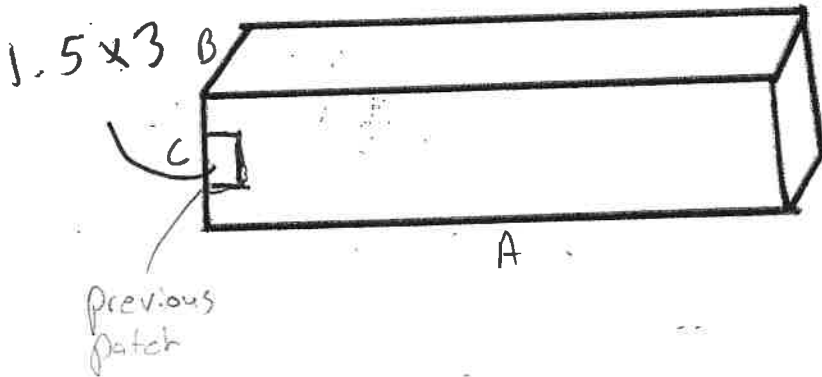
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 065

SKETCH



Stone ID No.

47 LW

Location.	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	16 ³ / ₈	
C	5 ¹ / ₂ 7 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous Patch left hand joint o-riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 4.5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/19/22

Stone Survey Sheet

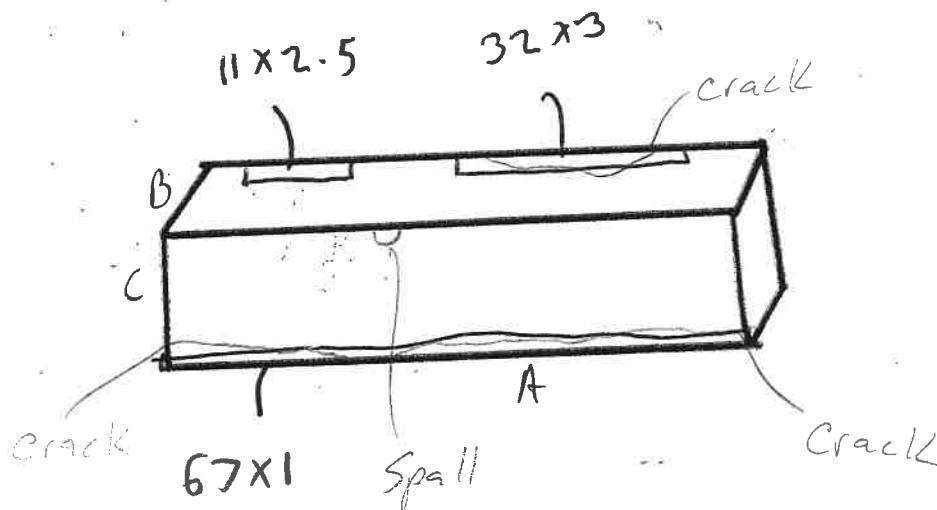
Location Drawing D4.01
Storage Drawing DG2

SKETCH

Stone ID No.

47 NE

Location	Length (in)
Overall Dimensions	
A	66 ⁷ / ₈
B	17 ³ / ₈
C	5 ¹ / ₄ 7 ⁵ / ₈
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Minor Joints	
Side	
Top	
Bottom	



Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack along back joint of tread right side
Cracking all along the bed joint of riser
Spall on nosing left of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 190.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

Chris Lehman
(Print)

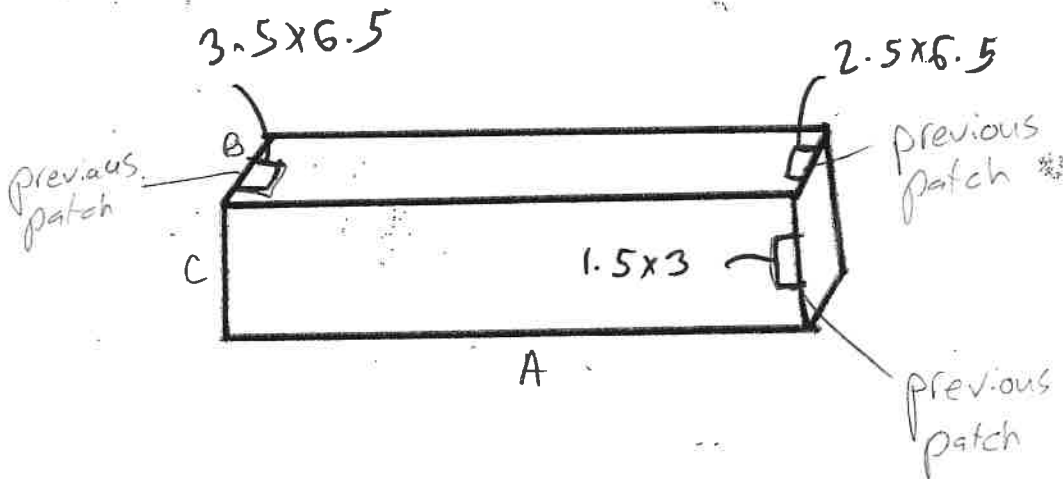
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DG4

SKETCH



Stone ID No.

47 NW

Location	Length (in)
Overall Dimensions	
A	66 ³ / ₄
B	17 ³ / ₈
C	5 ¹ / ₂ 7 ⁵ / ₈
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous patch left joint of tread
Previous patch right joint of tread
Previous patch right head joint of riser

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Pitching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 42.5 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

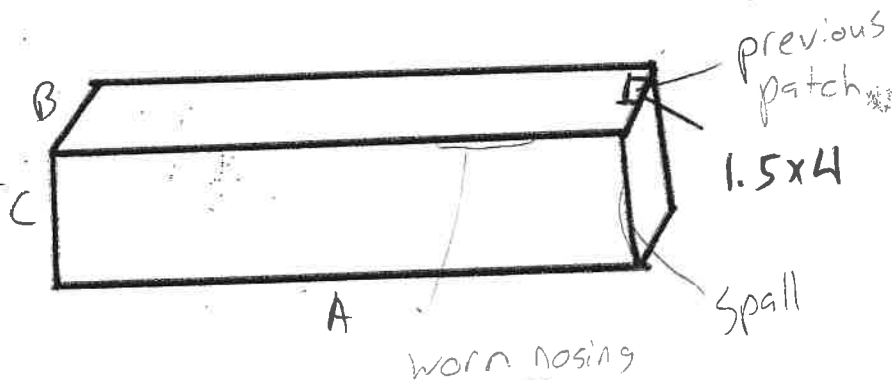
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DG3

SKETCH



Stone ID No.

47 Q

Location	Length (in)	
Overall Dimensions		
A	78 7/8	
B	17 7/16	
C	5 5/16	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Wearing on nosing right side
Spall on right head joint of riser
Previous patch on right joint of tread near back

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

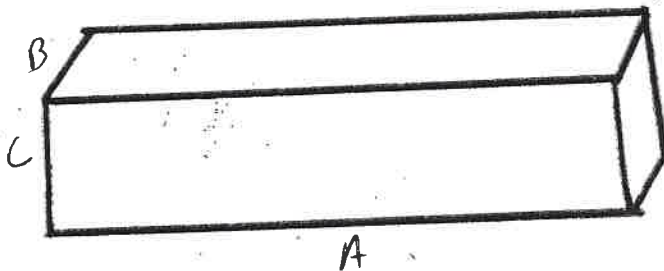
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/E/13

SKETCH



Stone ID No.

48 BE

Location	Length (in)	
Overall Dimensions		
A	30	
B	17 3/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

P Dillon
(Print)

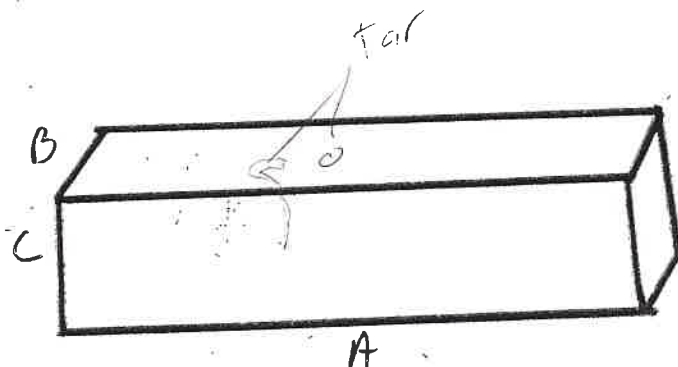
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/F/11

SKETCH



Stone ID No.

48 BW

Location	Length (in)	
Overall Dimensions		
A	29	
B	17 3/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Tar spots on tread & riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

D Dillon
(Print)

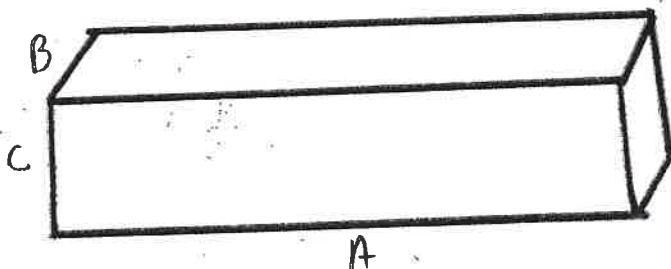
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/E/14

SKETCH



Stone ID No.

48DE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

P Dillon
(Print)

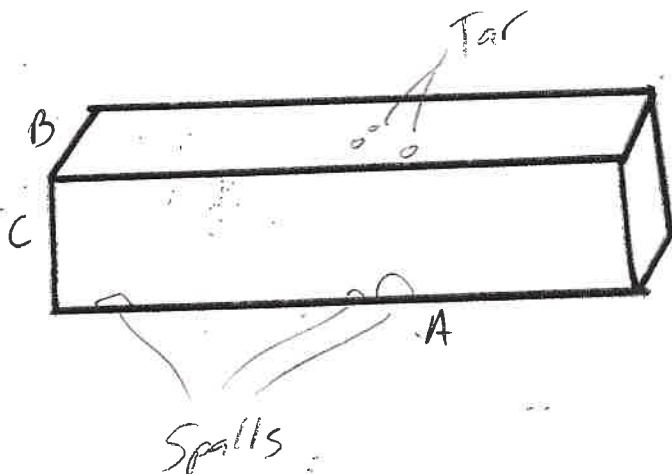
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/F/10

SKETCH



Stone ID No.

48 DW

Location	Length (in)	
Overall Dimensions		
A	65 5/8	
B	17 2/3	
C	5 1/2	784
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

3 spalls on bed joint of riser
Tar spots on tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

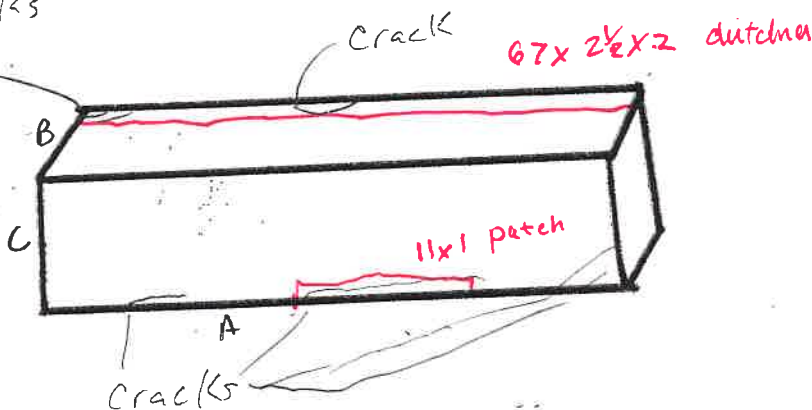
Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/E/15 (So end)

SKETCH

2 small cracks



Stone ID No.

48 FE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₄	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 small cracks back left corner of tread
2 cracks along bed joint; left side & center running right
2 cracks at bottom right corner of riser
Crack at center of back joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Dutchman 335 in³

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 11 in³

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

P. Dillon
(Print)

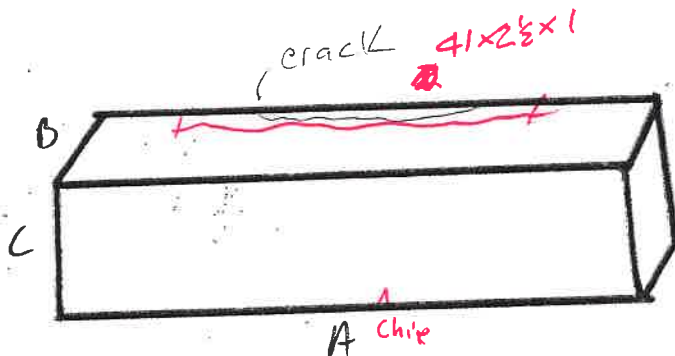
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/F/9

SKETCH



Stone ID No.

48 FW

Location	Length (in)	
Overall Dimensions		
A	66 $\frac{3}{4}$	
B	17 $\frac{1}{4}$	
C	5 $\frac{3}{8}$	7 $\frac{3}{4}$
Major Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Cracking along back joint of head
Rounded corner topright of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 103 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

P Dillen
(Print)

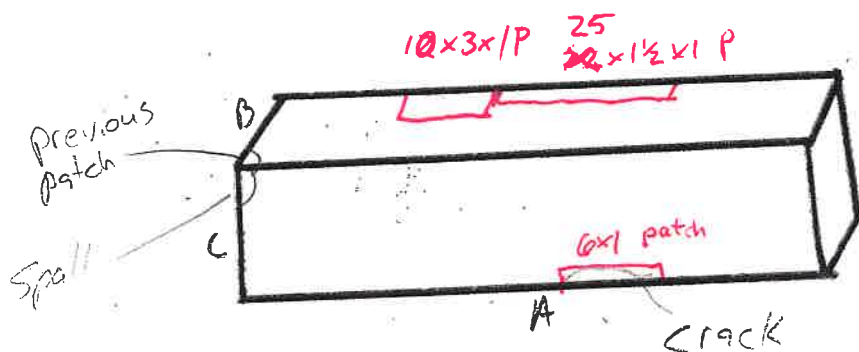
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/F/1 (No. end)

SKETCH



Stone ID No.

48 HE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous Patch top right corner of riser
Spall below patch on top right corner of riser
Crack along bed joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 68 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

P. Dillon
(Print)

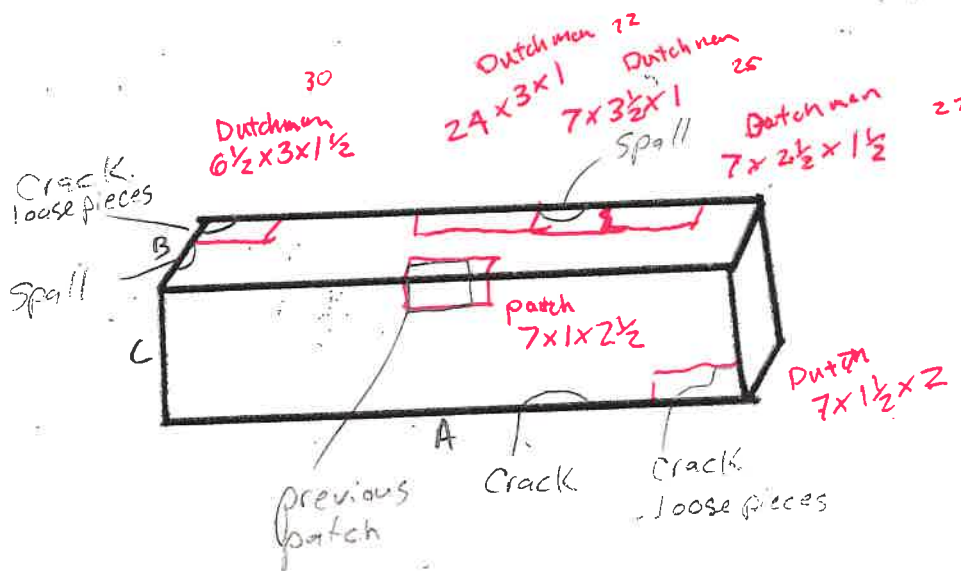
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/E/B

SKETCH



Stone ID No.

48 HW

Location	Length (in)
Overall Dimensions	
A	66 7/8
B	17 3/8
C	5 1/2 7 3/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack back left corner of tread has loose pieces
Spall left joint of tread
Previous Patch top center of riser continuing onto tread
Spall back joint of tread right side
Cracks with loose pieces at bed joint right side & bottom right corner of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Dutchman 175 in³

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 18 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

P. Dillon
(Print)

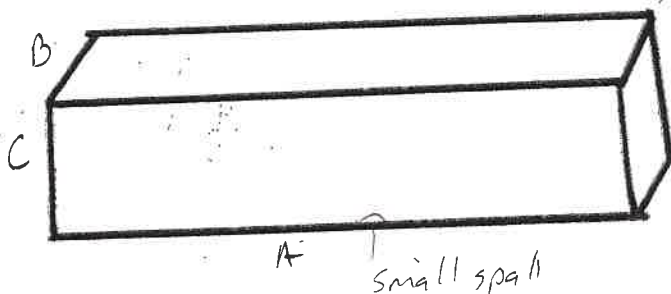
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/E/2

SKETCH



Stone ID No.

48KE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/4	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

small spall near center of bed joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

P. Dillon
(Print)

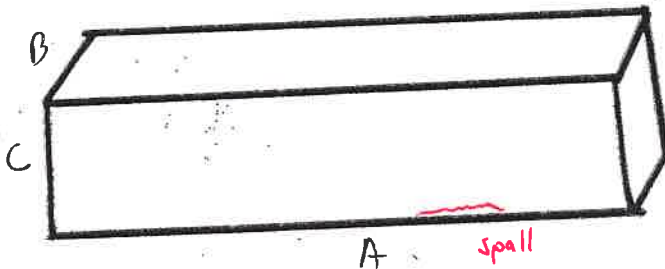
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/F/7

SKETCH



Stone ID No.

48 KW

Location	Length (in)	
Overall Dimensions		
A	66 3/8	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

P. Dillm
(Print)

(Signed)

Date: 9/19/22

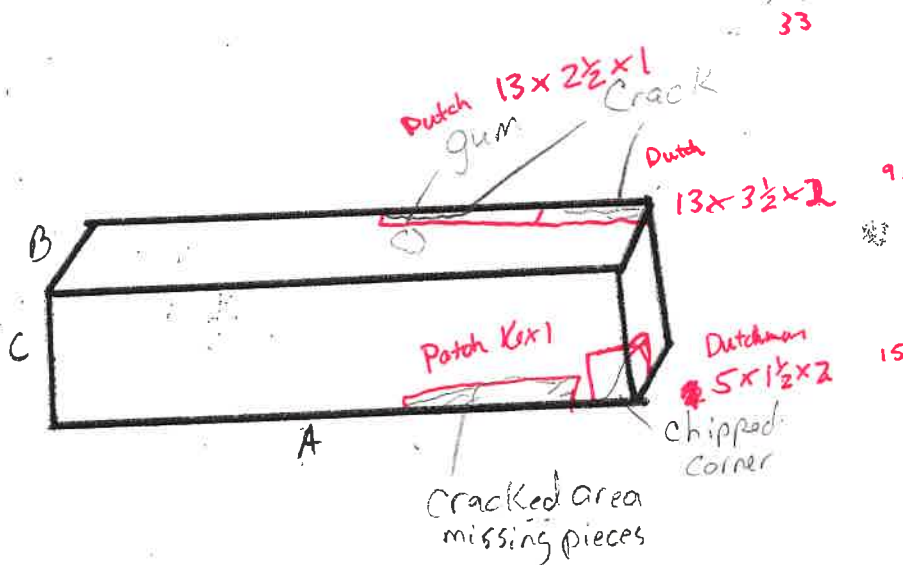
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/F/3

Stone ID No.

48 ME

SKETCH



Location	Length (in)
Overall Dimensions	
A	66 3/4
B	17 3/4
C	5 3/8 7 3/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

gum spot right of center on tread
Cracked area on right side of bed joint of riser
Chipped/Cracked corner bottom right of riser missing piece
Cracks along back joint on right and back right corner

Stone cleaning recommended: Minor Moderate to heavy

Type of repair 139.8 Dutchman

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 16 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

P Dillon
(Print)

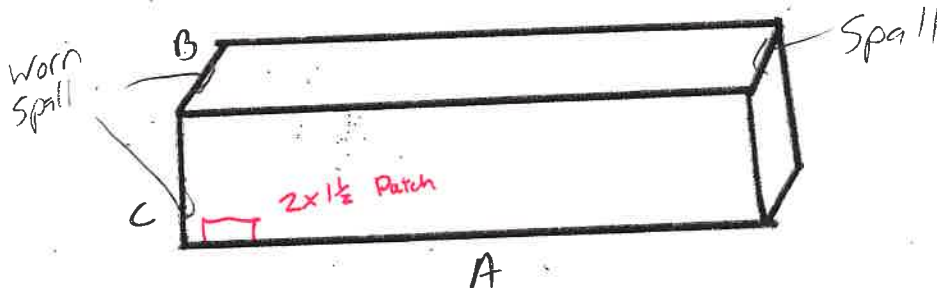
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/F/G

SKETCH



Stone ID No.

48 MW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ⁵ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall left joint of tread
Worn Spall left head joint on riser
Spall right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

P. Dillon
(Print)

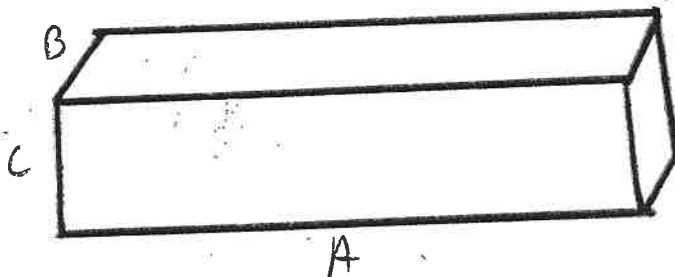
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/F/4 (No. of aisle)

SKETCH



No lip

Stone ID No.

48 PE

Location.	Length (in)	
Overall Dimensions		
A	73 1/8	
B	17 3/8	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall Weathering; Pitting

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

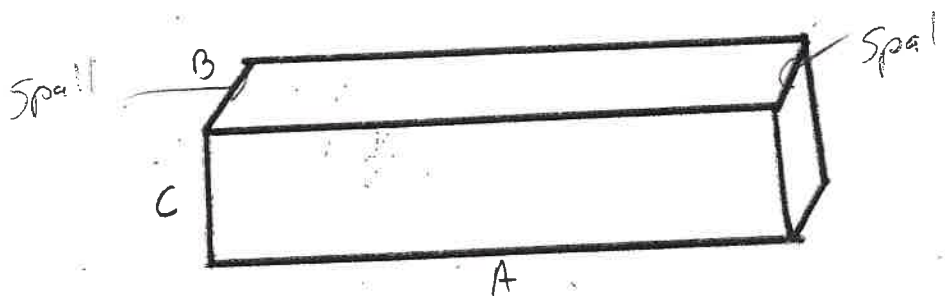
Date: 9/19/22

Stone Survey Sheet

Location Drawing 04.01

Storage Drawing D/E/S (So. of aisle)

SKETCH



Stone ID No.

48PW

Location	Length (in)	
Overall Dimensions		
A	73	
B	17	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall left joint of tread
Spall right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WEP/GSD Representative:

P Dillon
(Print)

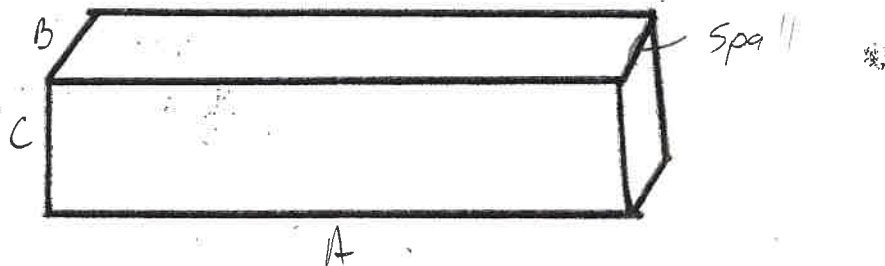
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PD15

SKETCH



Stone ID No.

49 CE

Location.	Length (in)	
Overall Dimensions		
A	63 3/4	
B	17 7/16	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

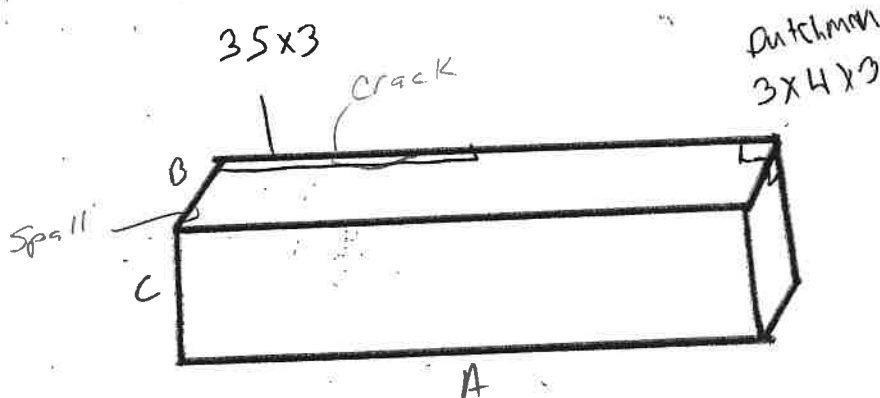
(Signed)

Date: 9/12/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DE12

SKETCH



Stone ID No.

49 CW

Location	Length (in)	
Overall Dimensions		
A	64	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall left joint of tread near front corner
Crack along back joint left side

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 141 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/12/22

Location Drawing D4.01
Storage Drawing DEI

A hand-drawn diagram of a rectangular concrete beam. The top surface is labeled with dimensions and damage: 7×4.5 Crack, 11×3.5 , and 14×4 cracks. The left side is labeled with 1.5×4 and 'Spall'. The front face is labeled 14×1.5 . The bottom edge is labeled 'Crack' and 'A'. The top-left corner is labeled 'B' and 'C'.

49 EE

Location.	Length (in.)	
Overall Dimensions		
A	66 $\frac{7}{8}$	
B	17 $\frac{3}{8}$	
C	5 $\frac{1}{2}$	7 $\frac{5}{8}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Member Joints		
Side		
Top		
Bottom		

Spall Left joint of tread
Crack on bed joint of riser running across face toward center
Crack back left corner of tread
Crack on back joint on right side
Crack on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 153 [in³]

To be documented on ground after handling and storage

- Stone to be replaced (by Contractor)? Yes / No

☒ Photographed prior to removal
☒ Add building reference points for existing location
☐ Existing conditions prevent removal per rigging plan
☒ Photographed after removal
☒ Documentation of areas to be patched
☒ Labeled with Stone ID
☒ Labeled stone with location of mortar joint lines above

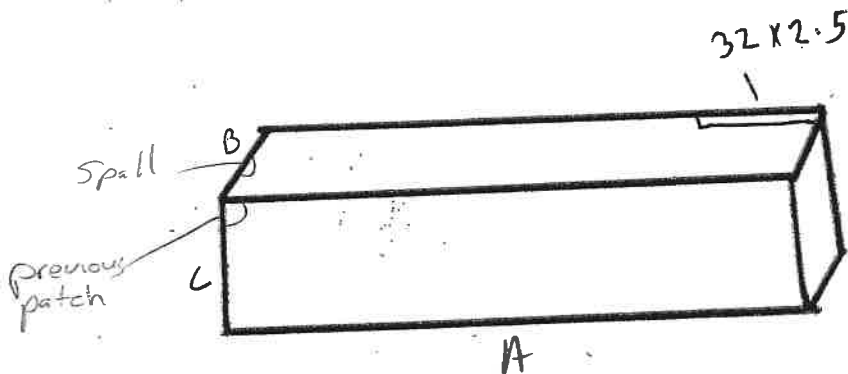
Date: 8-28-22

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PE11

SKETCH



Stone ID No.

49EW

Location.	Length (in)	
Overall Dimensions:		
A	65 ³ / ₄	
B	17 ⁵ / ₈	
C	5 ³ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall left joint of tread
Previous patch top left corner of riser

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 80 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WBP/GSD Representative:

Chris Lehman
(Print)

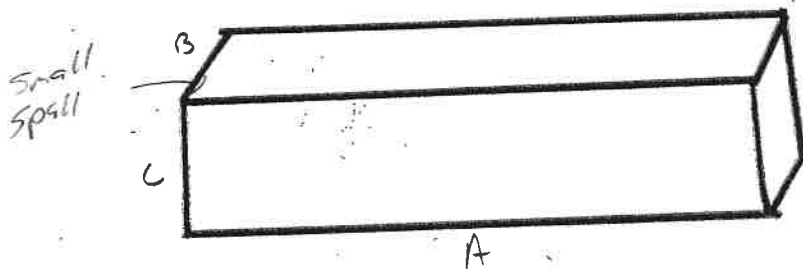
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DE2

SKETCH



Stone ID No.

49GE

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/4	
C	57 1/16	77 1/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall left joint of tread near front

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

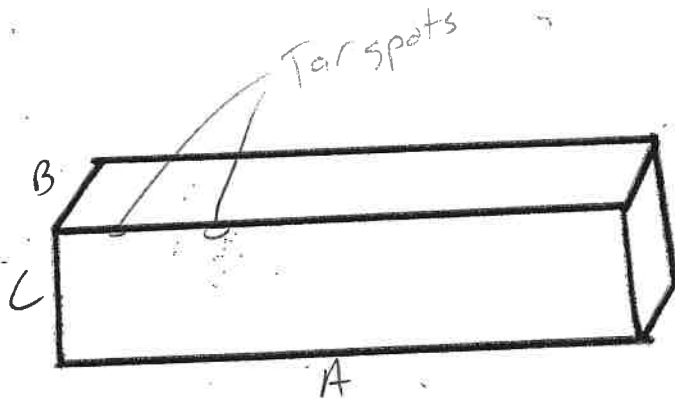
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DEL

SKETCH



NO Lip

Stone ID No.

49GW

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	16 1/2	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 small tar spots on left side of nosing

Stone cleaning recommended: ☒ Minor ☐ Moderate to heavy

Type of repair

Patching required? Yes / ☒ No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / ☒ No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lphman
(Print)

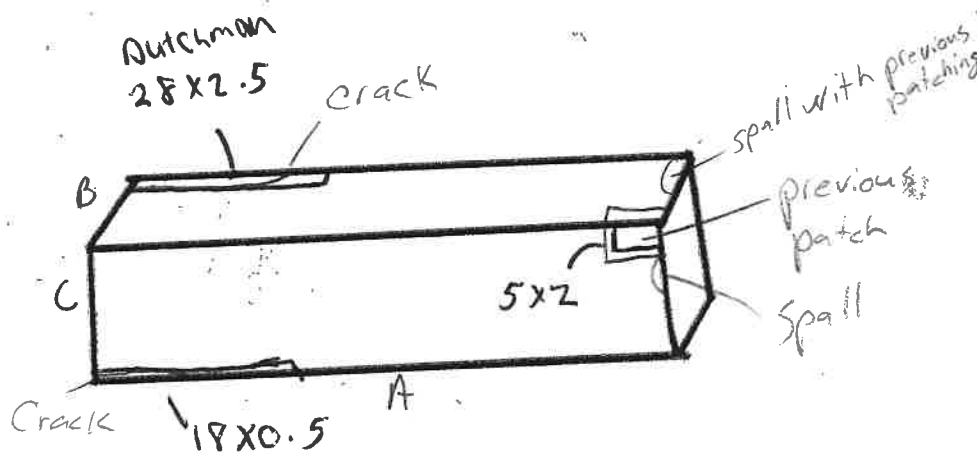
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DE3

SKETCH



Stone ID No.

49JE

Location	Length (in)	
Overall Dimensions		
A	66 $\frac{3}{4}$	
B	17 $\frac{3}{8}$	
C	5 $\frac{1}{16}$	7 $\frac{3}{8}$
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack at bed joint left side of riser
Crack at back joint of tread left side
Spall back of right joint of tread; previous patching
Previous patch top right corner of riser
Spall on right head joint of riser

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8.9 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

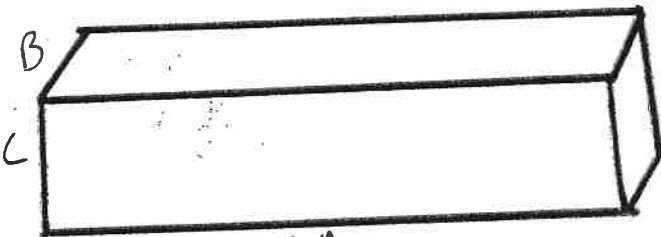
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DF9

SKETCH



A

NO Lip

Stone ID No.

49 JW

Location	Length (in)	
Overall Dimensions		
A	66	3/4
B	16	1/2
C	5	1/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

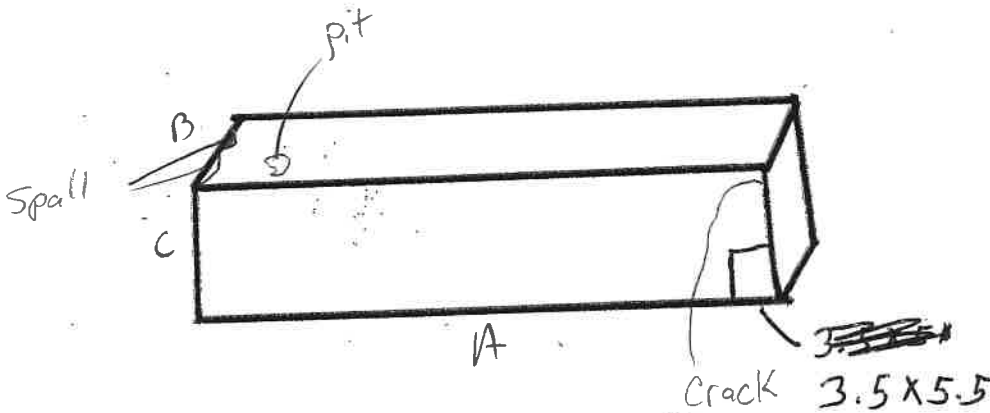
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DE4

SKETCH



Stone ID No.

49LE

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/2	
C	5 1/8 7 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar joints:		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall weathering on tread with some pitting
2 spalls left joint of tread
Large crack right side of riser; loose piece

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 12.25 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DEF

SKETCH



NO Lip

Stone ID No.

49 LW

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	16 1/2	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Slight pitting on right front of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

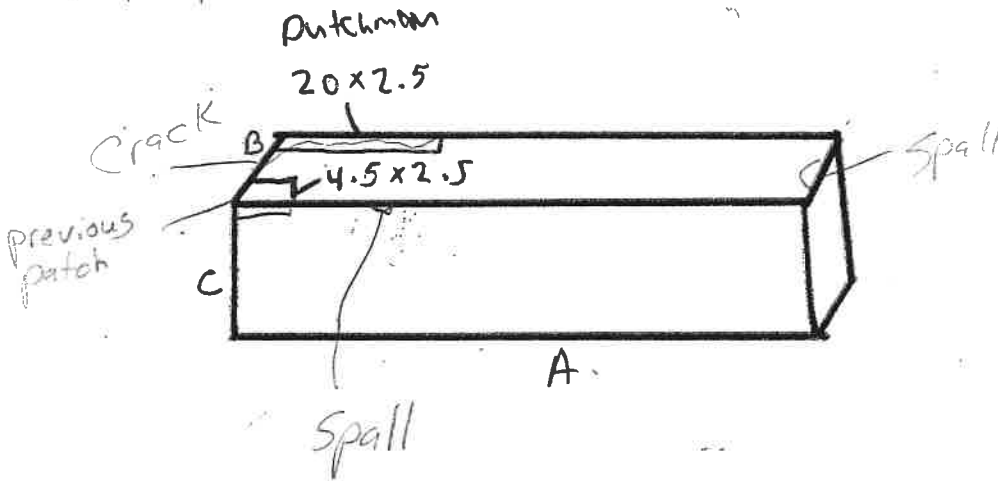
Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing PE5

SKETCH



Stone ID No.

49NE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₄	
C	5 ¹ / ₂ 7 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack along back joint of tread left side
 Previous Patch Left front corner of tread/top left of riser
 Spall on nosing left side
 Spall on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 61.25 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lphman
 (Print)

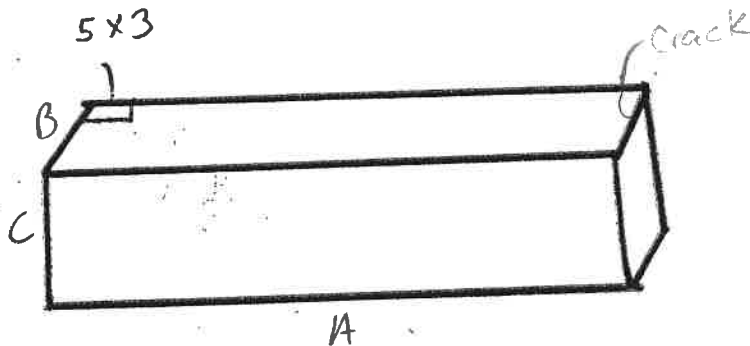
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Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DE7

SKETCH



Stone ID No.

49 NW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/2	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall weathering on tread
Crack back right corner of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 1.5 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lihman
(Print)

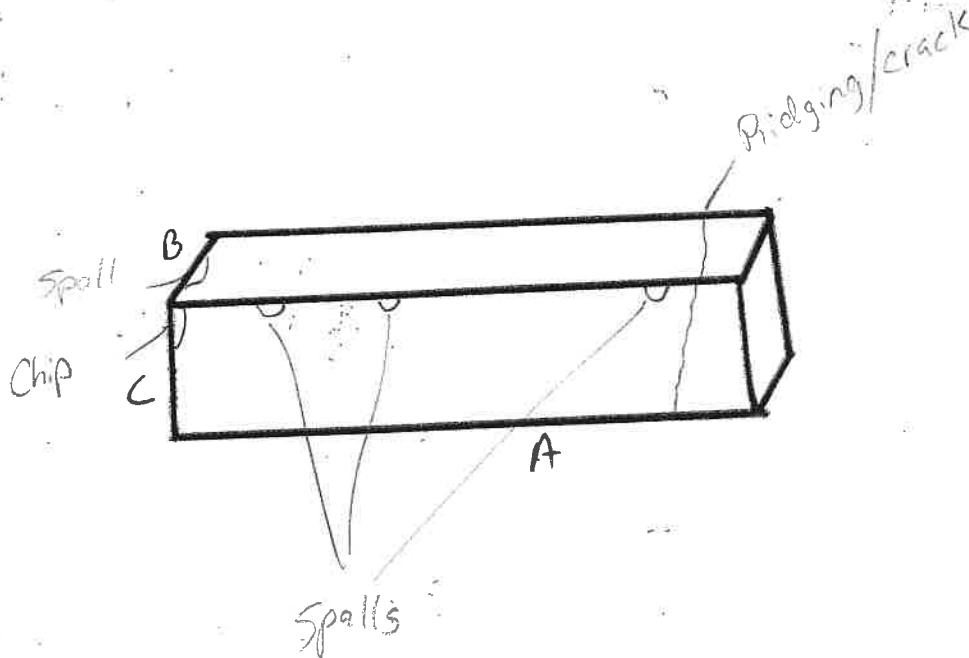
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing PEC

SKETCH



Stone ID No.

49 Q

Location	Length (in)	
Overall Dimensions		
A	78 7/8	
B	17 3/8	
C	5 3/8	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip on top left corner of riser
Spall left joint of tread
3 spalls along nosing

Ridging/crack right side of tread continuing down riser

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

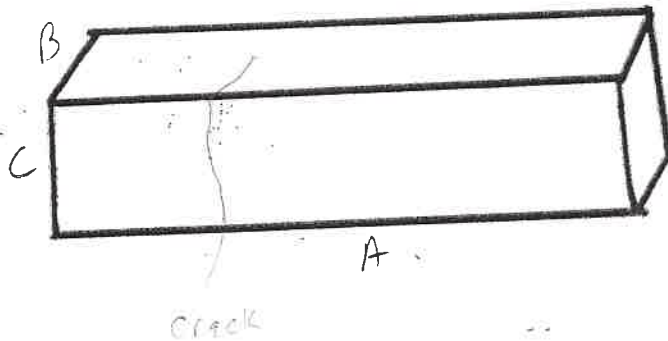
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/P/1

SKETCH



Stone ID No.

SO BE

Location	Length (in)	
Overall Dimensions		
A	30 3/8	
B	17 1/4	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack from near center of head running to front and down face of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

P Dillan
(Print)

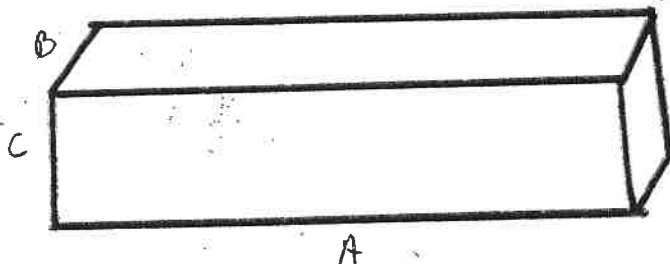
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/14

SKETCH



Stone ID No.

50 BW

Location	Length (in)	
Overall Dimensions		
A	30 1/2	
B	17 3/8	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / **No** (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / **No**

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

CWilla
(Print)

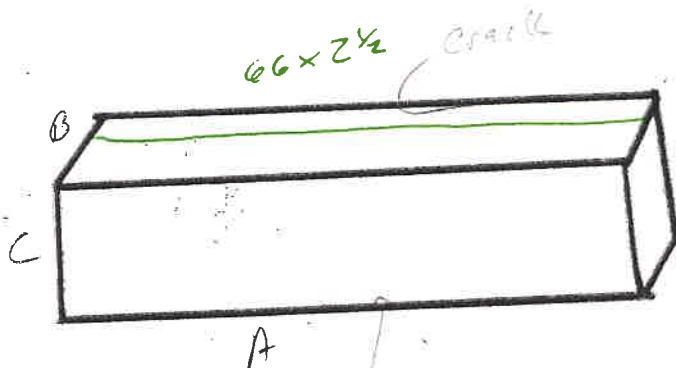
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/2

SKETCH



Stone ID No.

50 DE

Location	Length (in)	
Overall Dimensions		
A	66 1/2	
B	17 3/8	
C	5 3/8	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on bed joint of riser near center
Crack along back joint of tread right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair: _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 165 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

P. Dillon
(Print)

(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/13

SKETCH



Stone ID No.

50 DW

Location	Length (in)	
Overall Dimensions		
A	66 ⁹ / ₁₆	
B	17 ³ / ₈	
C	5 ¹ / ₂ 7 ⁷ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small gum/tar spots right side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

DVila
(Print)

(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D/D/3

SKETCH

Stone ID No.

50 FE



Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₄	
C	5 ³ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 spalls left join to tread
Spall on nosing left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 50 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

P Dillon

(Print)

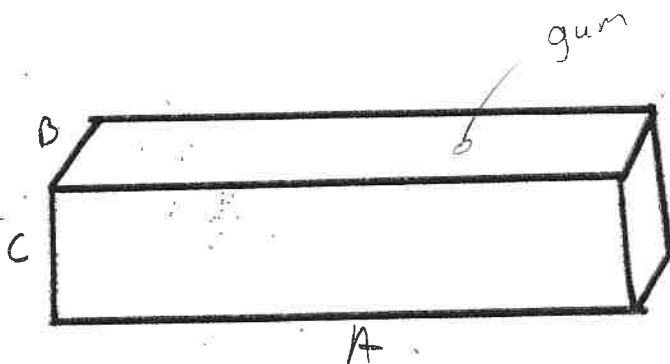
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Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/12

SKETCH



Stone ID No.

50 FW

Location.	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ⁵ / ₁₆	
C	5 ³ / ₈	75 ¹ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small gum spot on tread right of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDF/GSD Representative:

(Print)

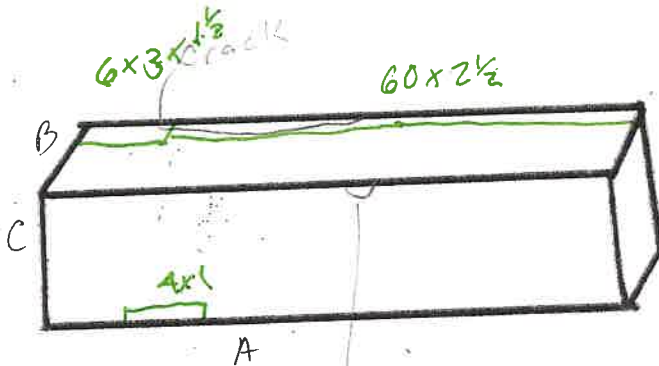
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4, 01
Storage Drawing D/D/4

SKETCH



Stone ID No.

50 HE

Location	Length (in)	
Overall Dimensions		
A	66 ⁹ / ₁₆	
B	17 ³ / ₈	
C	5 ³ / ₈	73 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on casing near center
Crack running along back joint on broad left to center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 1.8 ft [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

P Dillon
(Print)

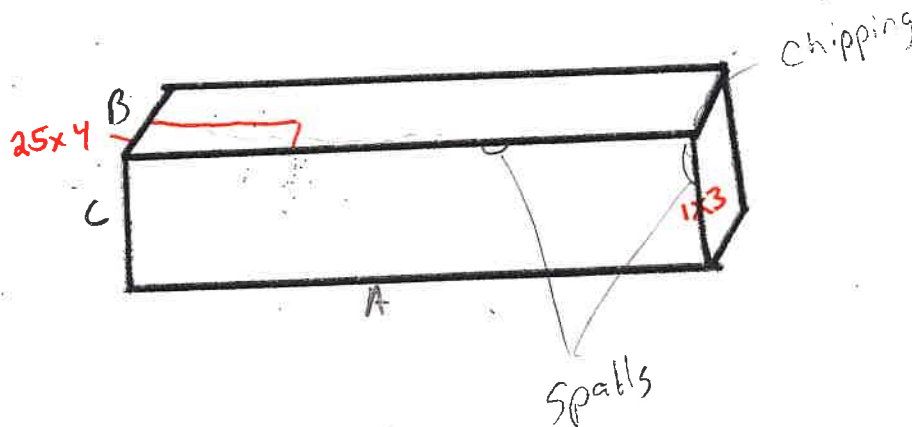
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Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/11

SKETCH



Stone ID No.

50 HW

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/2	
C	5 1/4 7 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Heavy wearing front left corner of tread and along front of tread
- small spalls right side of nosing
- Spall top of right head joint of riser
- Chipping along right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0.3 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

CN16
(Print)

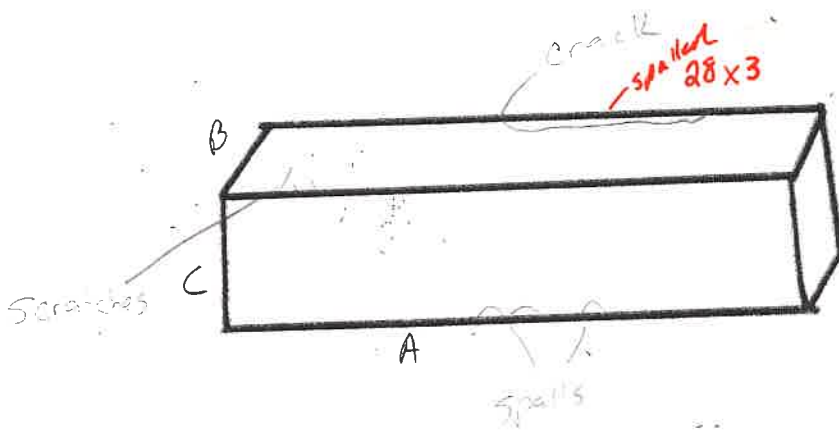
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Date: 9-4-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/P/S

SKETCH



Stone ID No.

50 KE

Location	Length (in)	
Overall Dimensions:		
A	66 13/16	
B	17 5/16	
C	5 1/4 774	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints:		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Scratches on left side of tread near nosing
3 Spalls on bed joint of riser
Crack running along back joint of tread from center to right side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6.4 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

(Print)

Ovilk

(Signed)

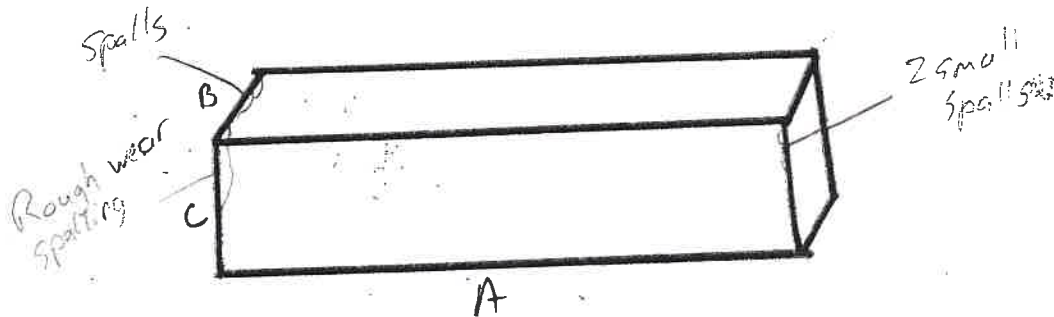
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/10

SKETCH



Stone ID No.

50 KW

Location	Length (in)	
Overall Dimensions		
A	67	
B	16 ⁷ / ₈	
C	5 ³ / ₈ 7 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Rough wearing and spalling top left corner of riser.
2 spalls left joint of tread
2 small spalls right head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

C. Miller
(Print)

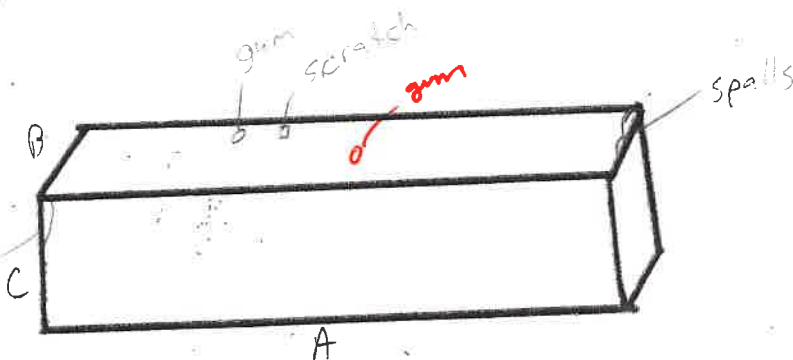
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Date: 9-1-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/6

SKETCH



Stone ID No.

50 ME

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall top left corner of riser
gum spot back left of tread near joint
Scratch mark back of tread near center
Spalls on right joint of tread

• Stone cleaning recommended Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Ovillu
(Print)

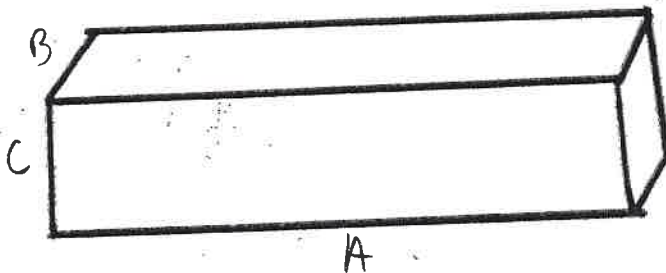
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/9

SKETCH



Stone ID No.

50 MW

Location	Length (in)	
Overall Dimensions		
A	66 $\frac{3}{4}$	
B	17 $\frac{3}{8}$	
C	5 $\frac{1}{2}$ 7 $\frac{3}{8}$	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Major Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Avila
(Print)

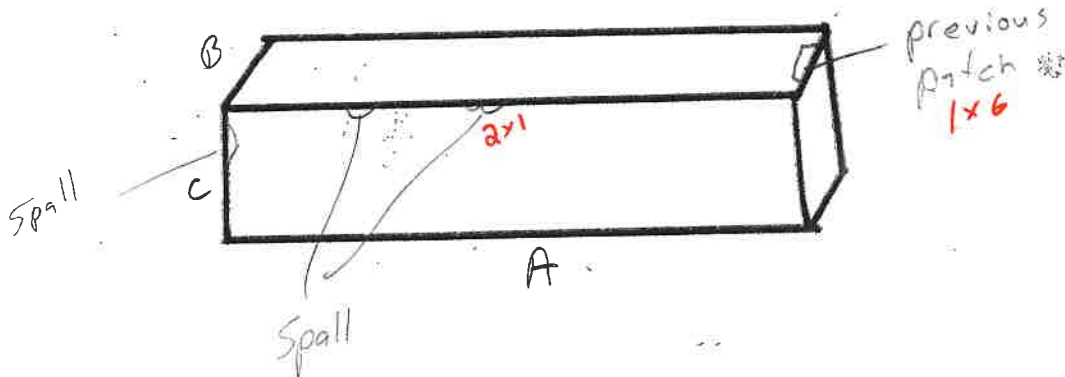
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/7

SKETCH



Stone ID No.

SOPE

Location.	Length (in)	
Overall Dimensions		
A	73	
B	17 3/4	
C	5 1/2	75 1/4
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall top left corner of riser
3 spalls on nosing; 2 center left side
Previous patch on right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

Avila
(Print)

(Signed)

Date: 9-9-22

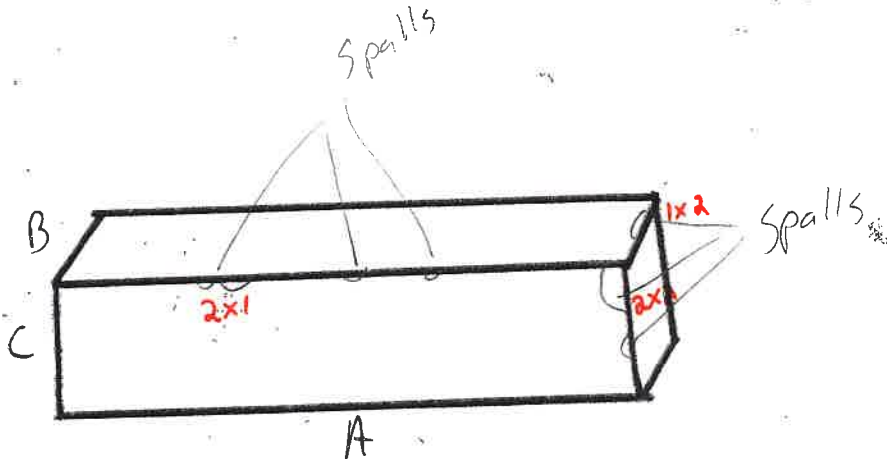
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/D/8

Stone ID No.

50 PW

SKETCH



Location	Length (in)
Overall Dimensions:	
A	73 1/4
B	17 1/4
C	5 3/4 7 5/8
Mortar Joints	
	Left Right
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls along nosing
Spall right joint of tread
2 spalls right head joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 6 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-28-22

WDP/GSD Representative:

CVilla
(Print)

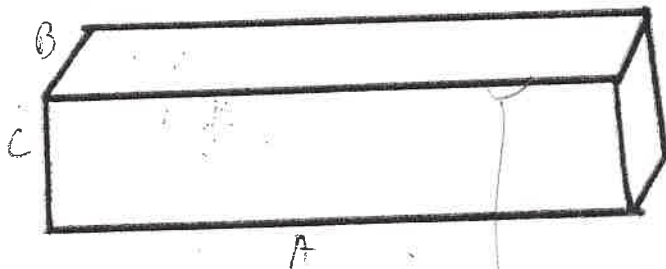
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DIC16

SKETCH



Stone ID No.

51 CE

Location	Length (in)	
Overall Dimensions		
A	64	
B	17 1/2	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall right side of facing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

(Print)

Avilla

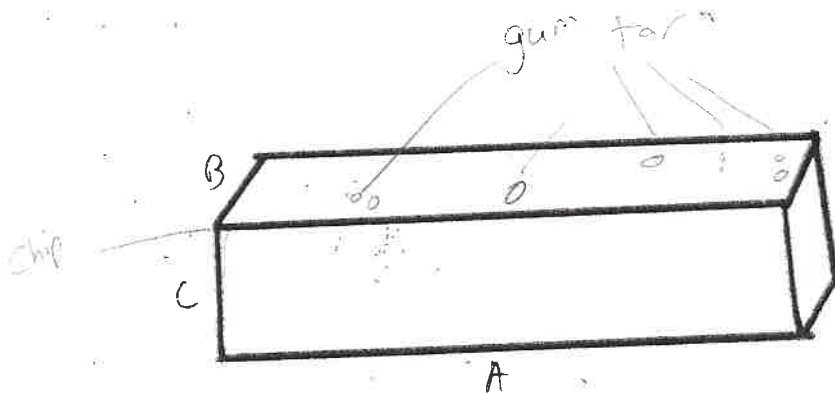
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Date: 9-1-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C/18

SKETCH



Stone ID No.

51 CW

Location	Length (in)	
Overall Dimensions		
A	64 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip top right corner of riser
Gum spot left of tread
tar spots along right side of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

P Dillon
(Print)

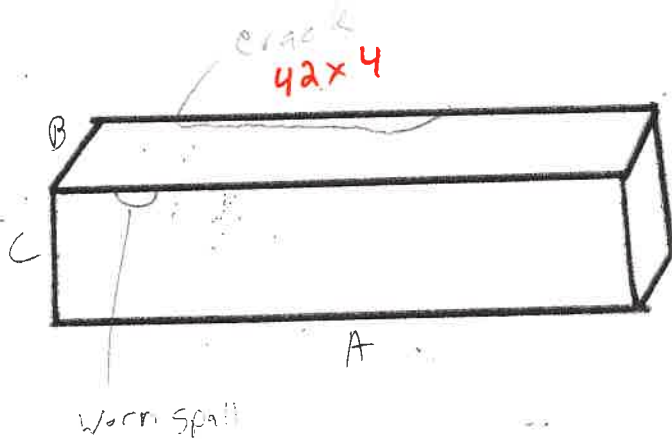
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C/7

SKETCH



Stone ID No.

51 EE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₄	
C	5 ¹ / ₂	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spall left side of nosing
Crack in back of block running along joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 168 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

(Print)

Chika

(Signed)

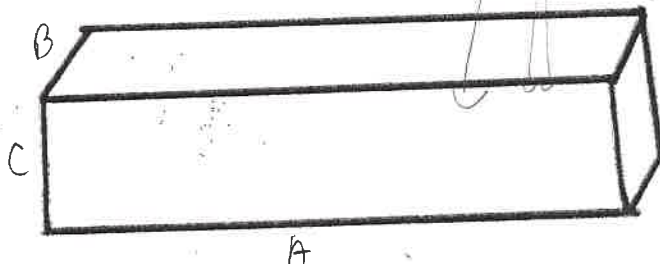
Chika

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C/157

SKETCH



Stone ID No.

SIEW

Location	Length (in)	
Overall Dimensions:		
A	65 1/2	
B	17 3/4	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on right side of nosing
2 small spalls right side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

P Dillon
(Print)

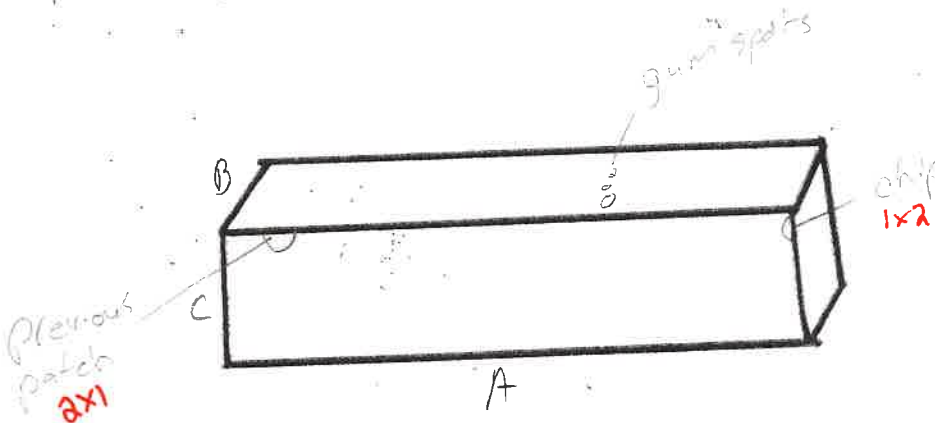
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 01418

SKETCH



Stone ID No.

51 GE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ³ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous patch left side of rising
chip top of right head joint of riser near corner
gum spots right side of head

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 4 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Crilla
(Print)

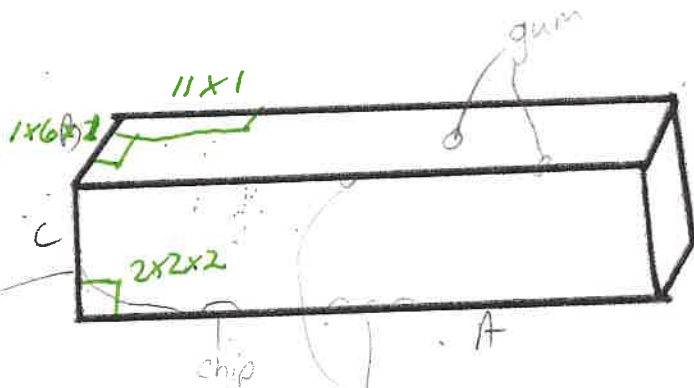
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C/16

SKETCH



Stone ID No.

51 GW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ⁷ / ₁₆	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Bottom left corner of riser has previous patching discolored
Chip on bed joint of riser left side
3 spalls near center of bed joint of riser
Spall on nosing left of center
Gum spots on right of tread and nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 25 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

P Dillon
(Print)

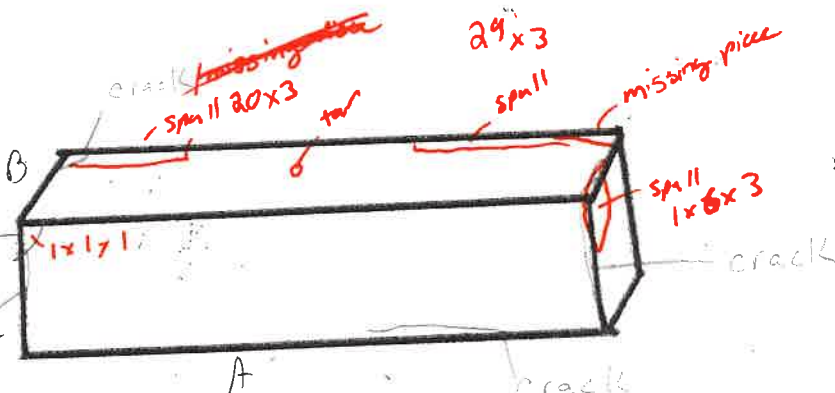
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C19

SKETCH



Stone ID No.

51JE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/4	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chipped corner with crack under missing piece
Small crack back left corner of tread
Crack along right side of bed joint of riser
Crack up right corner of riser extending to tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 146 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

(Print)

Avilla

(Signed)

Date: 9-9-22

Stone Survey Sheet

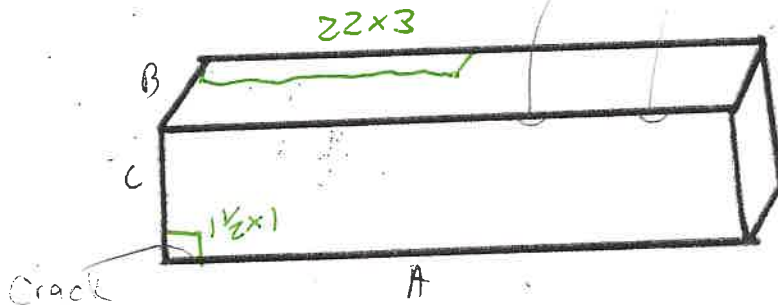
Location Drawing D4.01
Storage Drawing D/C/15

SKETCH

Stone ID No.

SI JW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₄	
C	5 ¹ / ₂	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		



Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack on bottom left corner of riser
Spall with previous patch on nosing right of center
Spall on right side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 68 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

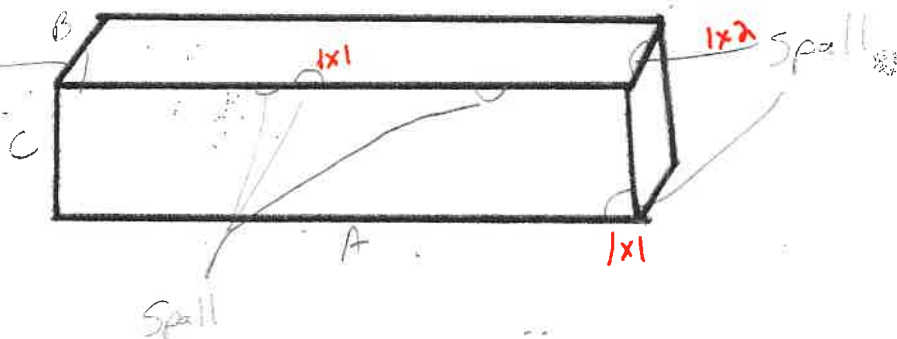
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 06/10

SKETCH

Spall with previous patch 2x3



Stone ID No.

51 LE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on front-left corner of tread with previous patching
3 spalls along nosing
Spall bottom right corner of riser
Spall right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Will

(Print)

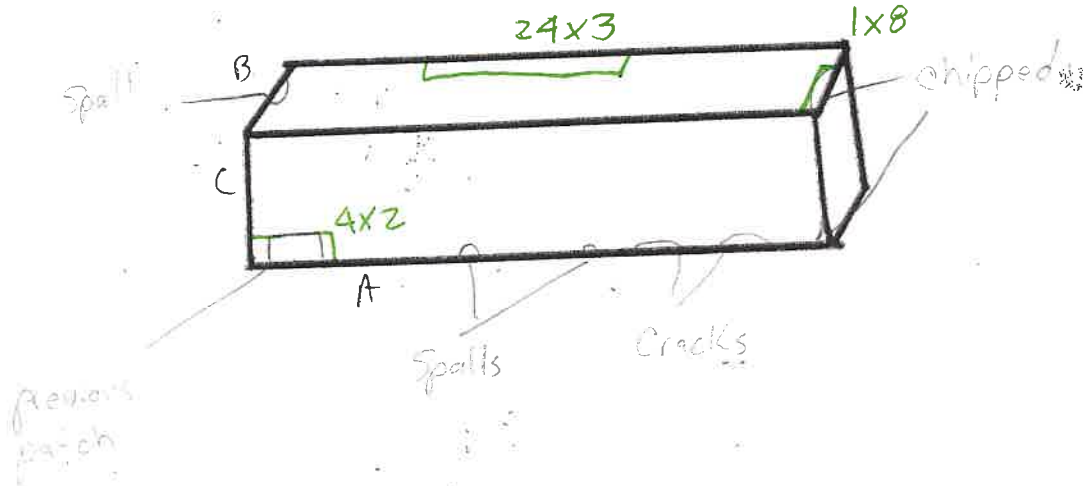
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C/14

SKETCH



Stone ID No.

51 LW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 3/4	
C	5	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall left joint of tread
Previous patch bottom left of riser
2 spalls along bed joint of riser near center
2 cracks along bed joint of riser right side
Chipped corner bottom right of riser
Large chip missing off right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 88 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

P Dillon
(Print)

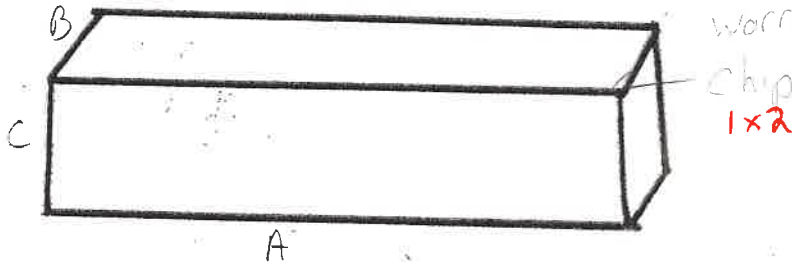
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Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C/11

SKETCH



Stone ID No
51 NE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ³ / ₈	75 ¹ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

worn chipped corner front right of head

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines: above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes No

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-25-23

WDP/GSD Representative: CVilla

(Print)

(Signed)

Date: 9-9-23

Stone Survey Sheet

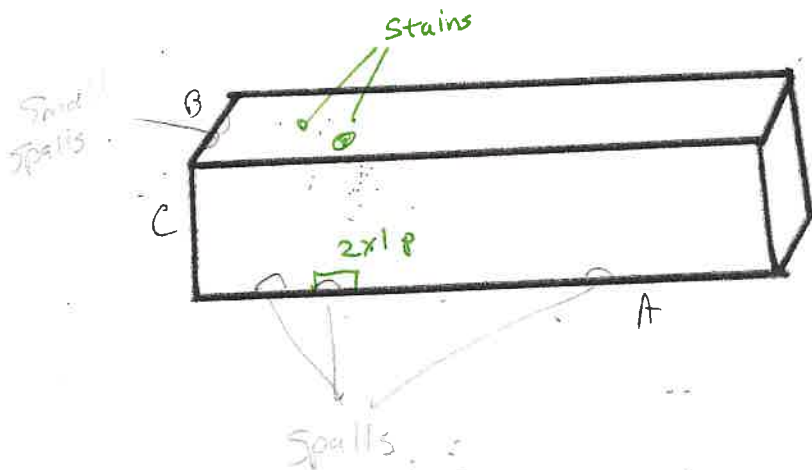
Location Drawing D4.01

Storage Drawing D/C/13

SKETCH

Stone ID No.

51 NW



Location	Length (in)	
Overall Dimensions:		
A	66 $\frac{3}{4}$	
B	17 $\frac{1}{2}$	
C	5 $\frac{1}{4}$	7 $\frac{1}{2}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints:		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Wearing along nosing
Small spalls left joint at tread
3 spalls along bed joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

P Dillon
(Print)

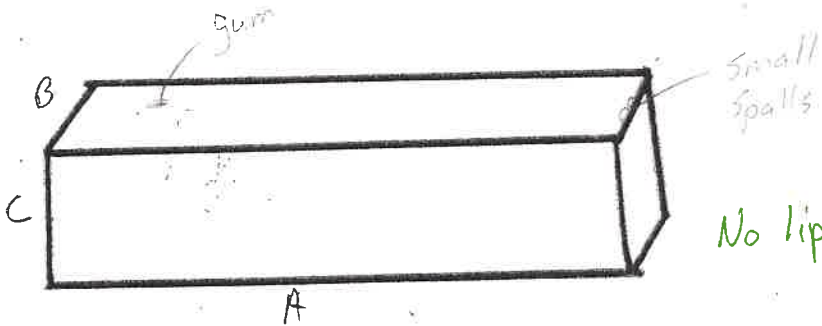
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C/12

SKETCH



Stone ID No.

51 Q

Location	Length (in)	
Overall Dimensions		
A	78 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall wearing, pitting
gum spot left side of tread
small spalls right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

P Dillon
(Print)

(Signed)

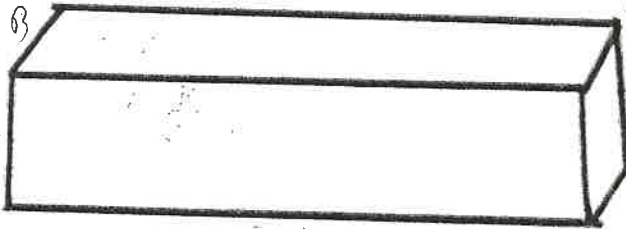
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D18/10

SKETCH



Stone ID No

52BE

Location	Length (in)	
Overall Dimensions		
A	30 ³ / ₈	
B	16 ¹ / ₂	
C	5 ¹ / ₂	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative: Avilla

(Print)

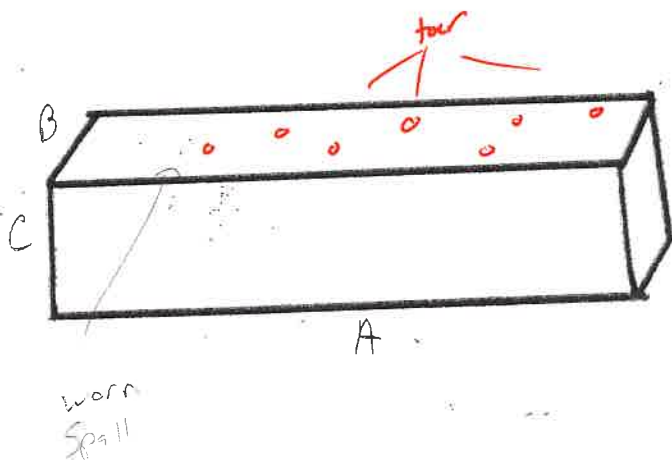
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DIC15

SKETCH



Stone ID No.

S2 BW

Location	Length (in)	
Overall Dimensions		
A	30 1/2	
B	17 3/8	
C	5 1/2	7 6/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

worn spall left side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Willa
(Print)

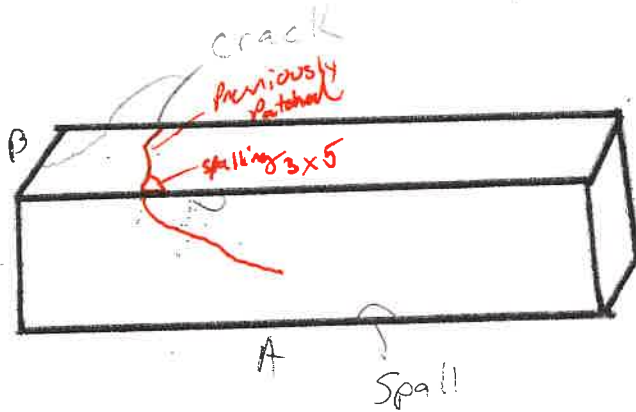
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1B111

SKETCH



Stone ID No.
52DE

Location	Length (in)	
Overall Dimensions:		
A	66 5/8	
B	17 7/16	
C	5 1/2	75 1/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on riser bed joint right of center
Spall on nosing left of center
2 cracks on left side of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 15 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Chilla
(Print)

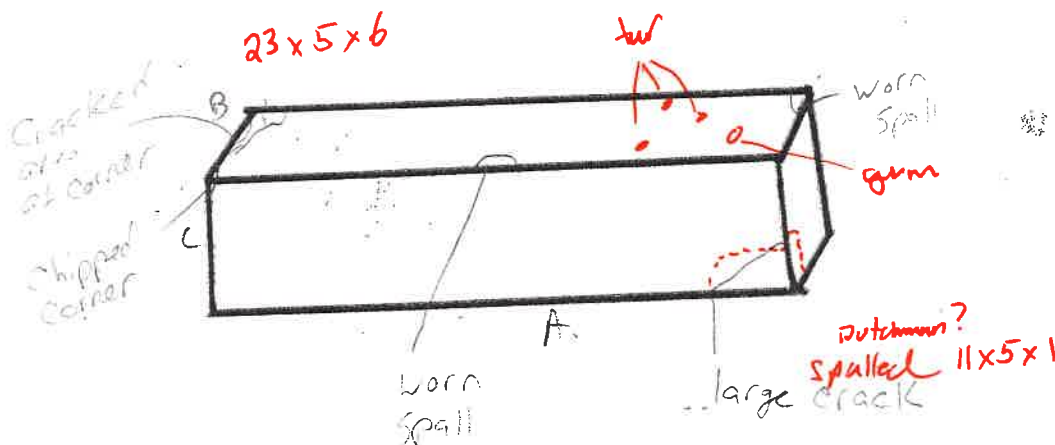
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1C14

SKETCH



Stone ID No.

52 DW

Location	Length (in)	
Overall Dimensions		
A	66 5/16	
B	17 1/4	
C	5 1/2	7 3/4
Mortar Joints		
D	Left	Right
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn Spall center of nosing
Large Crack bottom right of riser
Small worn spall back right corner of tread
Cracked area back left corner of tread
Chipped corner top left of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Dutchman
Pitching required? Yes / No (if yes, shade the area on the sketch)
Volume of Patching: 745 [in³]
To be documented on ground after handling and storage
Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

CVilla
(Print)

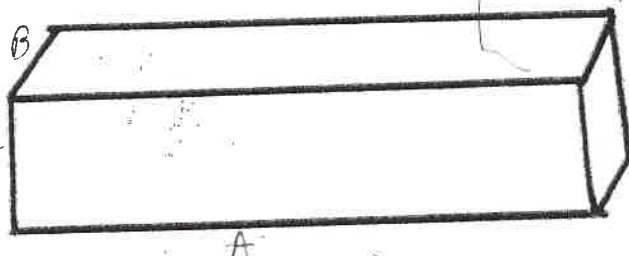
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Date: 8-25-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1B/12

SKETCH



Stone ID No.
52FE

Location	Length (in)	
Overall Dimensions:		
A	66 ³ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂ 75 ¹ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Scratch/pitting right side of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Mike
(Print)

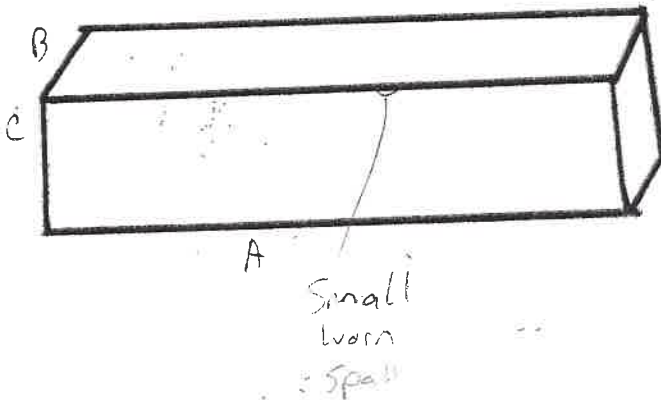
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing DIC13

SKETCH



Stone ID No.

52FW

Location	Length (in)	
Overall Dimensions		
A	66 $\frac{3}{4}$	
B	17 $\frac{3}{8}$	
C	5 $\frac{1}{2}$ 73 $\frac{1}{4}$	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small worn spall on nosing right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 6 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Avila
(Print)

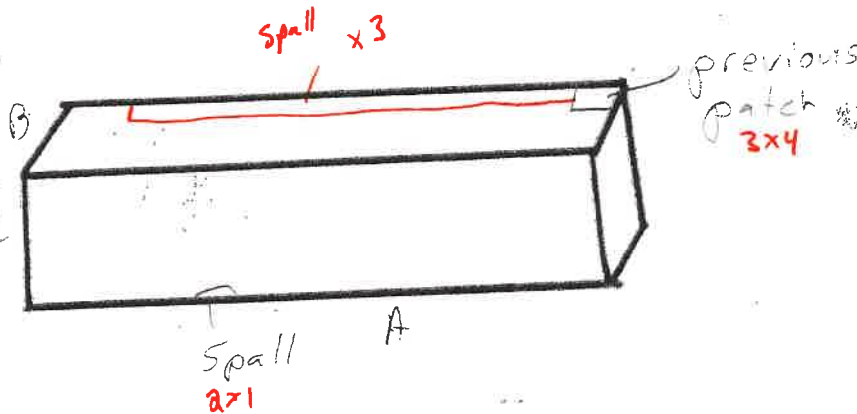
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1B113

SKETCH



Stone ID No.
52HE

Location	Length (in)	
Overall Dimensions:		
A	66 1/16	
B	17 3/8	
C	5 1/4 7 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints:		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on left side of riser bed joint
Previous patch back right corner of head

Stone cleaning recommended: Minor Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 323 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

(Print)

Willen

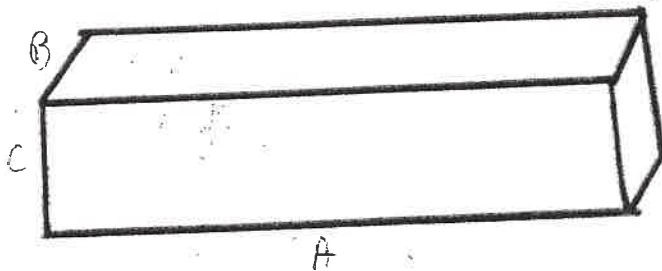
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1C12

SKETCH



Stone ID No.

52HW

Location.	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints:		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

CVilla
(Print)

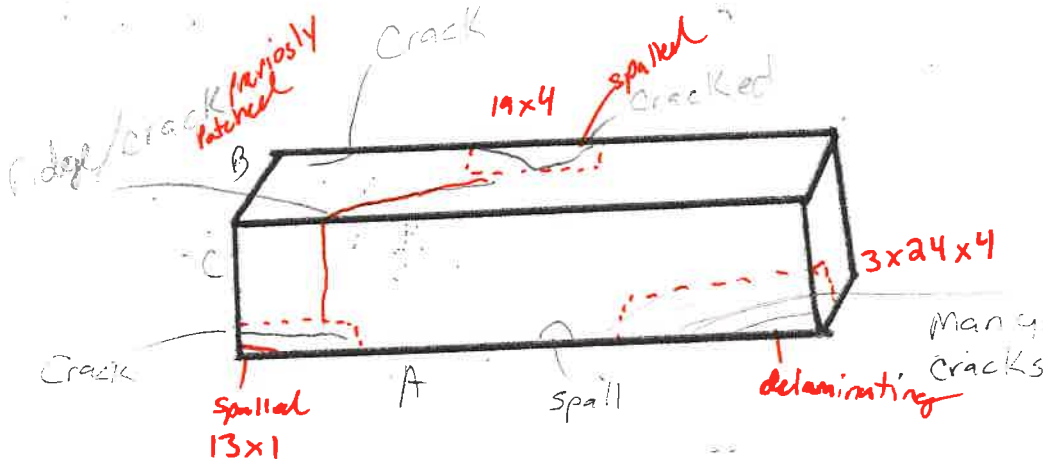
(Signed)

Date: 09-09-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D1B/14

SKETCH



Stone ID No.
52KE

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/4	
C	5 1/2 7 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Bottom right corner of riser has many cracks
Spall on bed joint of riser right of center
Cracked area on center of back joint of tread
Crack bottom left corner of riser
Crack back left of tread at back joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 377 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDF/GSD Representative:

Anilla
(Print)

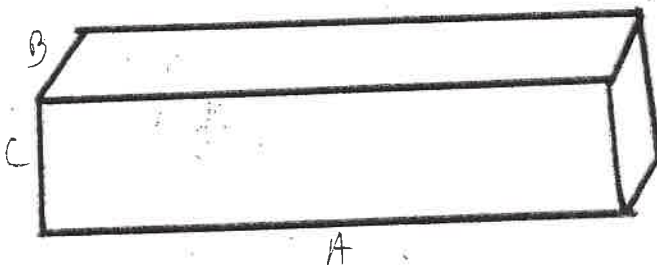
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/C11

SKETCH



no lip

Stone ID No.

52 KW

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	16 1/2	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Wearing on front of tread and nosing

• Stone cleaning recommended: Minor Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

avilla
(Print)

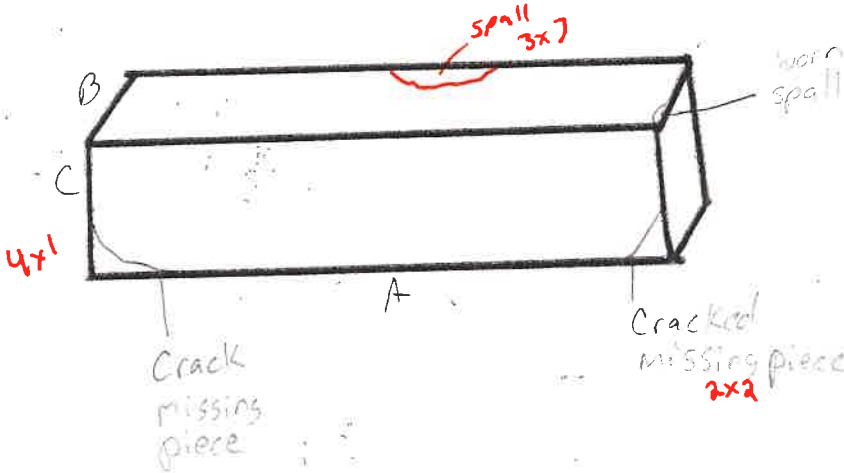
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/B/15

SKETCH



Stone ID No.
52ME

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 3/8	
C	5 1/2	73 1/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn Spall right joint of tread
Crack with missing piece bottom right corner of riser
Crack with missing piece bottom left corner of riser
spall back of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required: Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 29 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-21

WDF/GSD Representative:

(Print)

Crilla

(Signed)

Date: 4-9-22

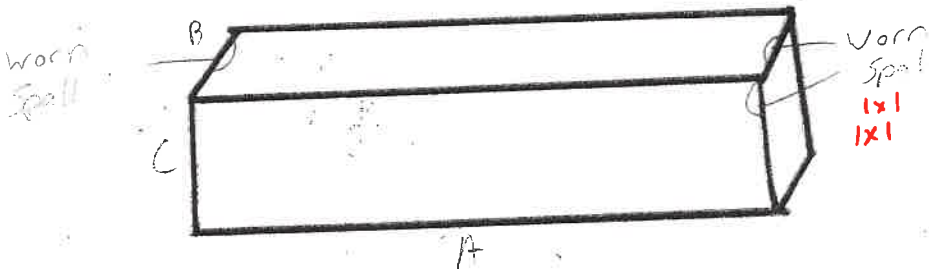
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/B/18

Stone ID No.

52 MW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 worn spalls right joint of tread
worn spall left joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

(Print)

CVilla

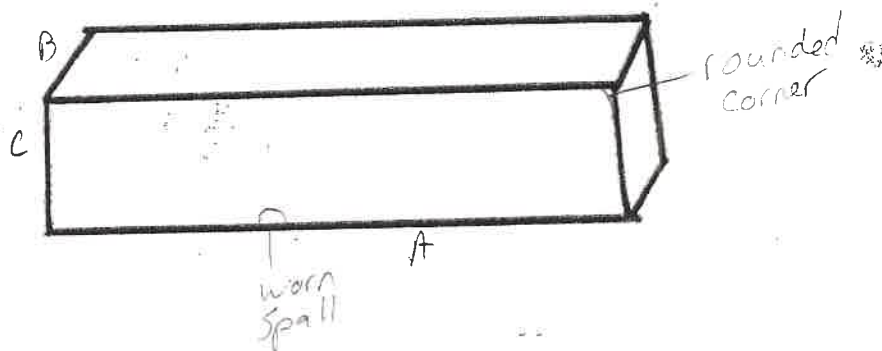
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 01B/16

SKETCH



Stone ID No.

52PE

Location	Length (in)	
Overall Dimensions		
A	73	
B	17 3/8	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rounded corner top right of riser
Worn spall on bed joint left of center of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

(Print)

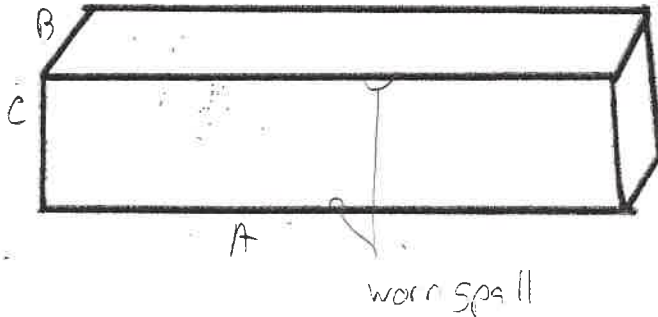
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D18/17

SKETCH



Stone ID No.

52 PW

Location	Length (in)	
Overall Dimensions:		
A	72 ¹ / ₈	
B	17 ¹ / ₂	
C	5 ³ / ₈ 7 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall near center of bed joint of 1-4/1
worn spall on rising right of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-25-22

WDP/GSD Representative:

Chiller
(Print)

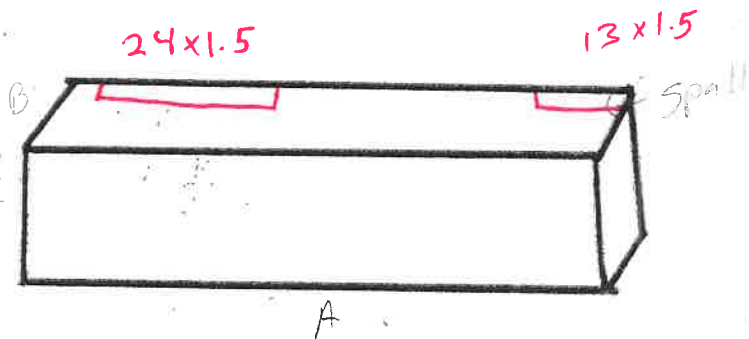
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(Signed)

Date: 9-4-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.
5305

Location	Length (in)	
Overall Dimensions		
A	64	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall back right corner of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 55.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WBP/GSD Representative: Christopher Lehman
(Print)

(Signed)

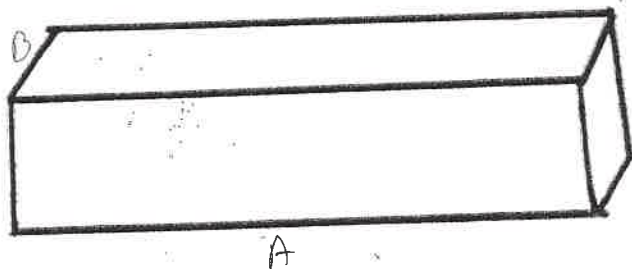
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing _____

SKETCH



Spall +
Cracking
on
cheek
wall

Stone ID No.

53CW

Location	Length (in)	
Overall Dimensions		
A	63 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₄	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall and Cracking on Cheek Wall

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

(Print)

Christopher L. Phin

(Signed)

Date:

9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.
53EE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small worn spall on nosing right of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

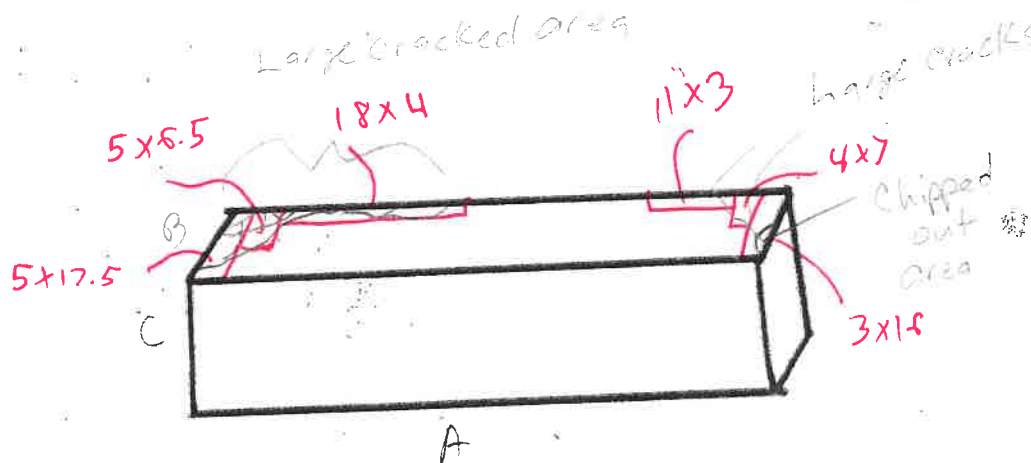
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

Stone ID No.
53EW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	65 1/4	
B	17 3/8	
C	5 1/4	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped out on right front of tread
Large crack from back joint of tread to chipped area on right
Large cracked area back left of tread up to front along left joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WBP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

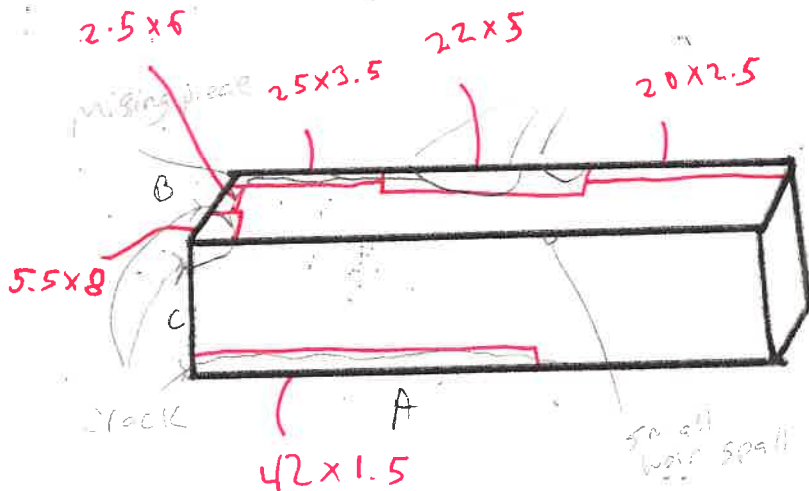
Date:

9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.
53GE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₄	
C	5	6 ¹ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack along left side of bed joint of riser
Cracking along left joint of tread; missing piece in the back
Cracking along back joint of tread; missing pieces
Small hair spall on nosing right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 359.5 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Lehman
(Print)

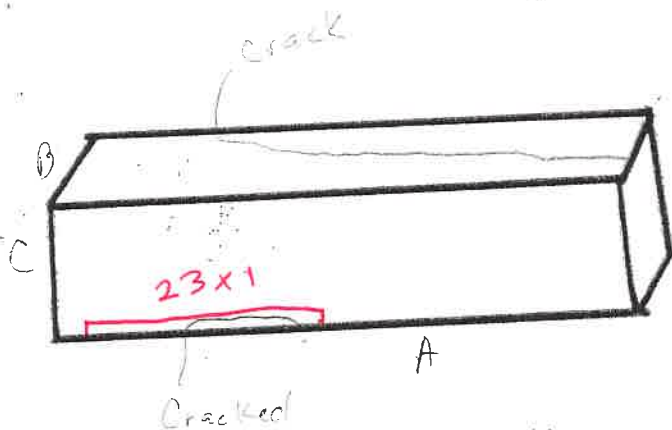
[Signature]
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.
53GW

Location	Length (in)	
Overall Dimensions		
A	66 ¹ / ₁₆	
B	17 ³ / ₁₆	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Long crack from left side of back joint to right side of tread
- Crack along bed joint left side of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2.3 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WBP/GSD Representative:

Christopher Lehman
(Print)

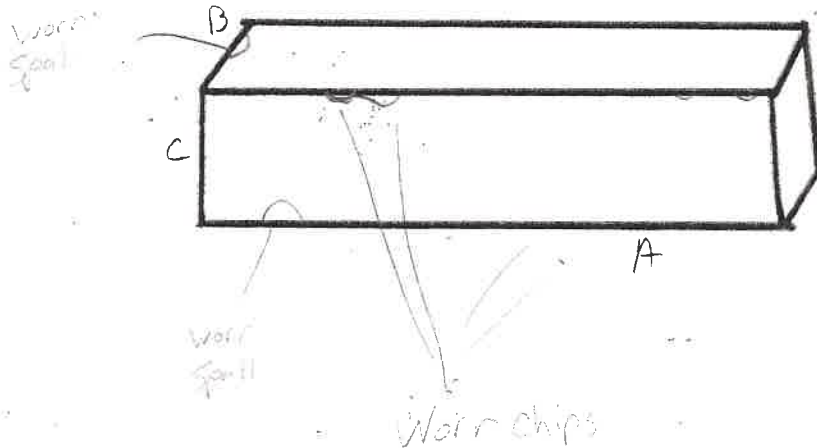
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

53JE

Location	Length (in)
Overall Dimensions:	
A	66 3/4
B	17 1/2
C	5 3/8 7 1/2
Mortar Joints:	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints:	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall left joint of tread
Worn Spall left side of bed joint of riser
Worn chips across nosing; Large one on left side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Whelan
(Print)

(Signed)

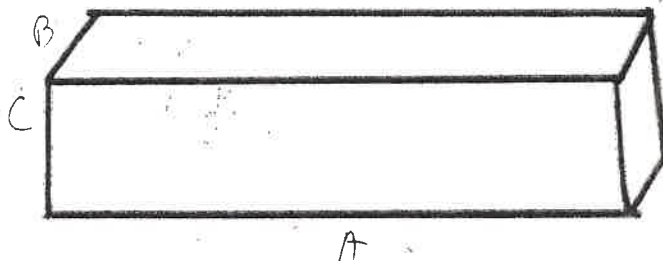
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing _____

SKETCH



Stone ID No.

53JW

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Lehman
(Print)

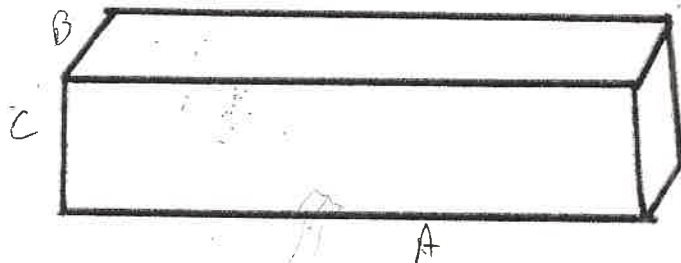
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.
53LE

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/2	
C	5 1/2 7 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

worn chipping on bed joint of riser near center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative: Christopher Lehman

(Print)

(Signed)

Date: 9/9/22

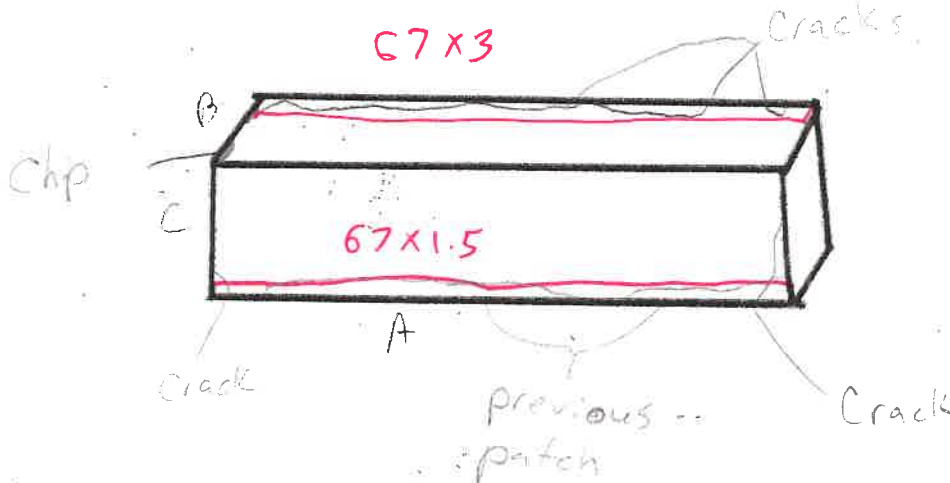
Stone Survey Sheet

Location Drawing D4.01

Storage Drawing _____

SKETCH

Stone ID No
53LW



Location	Length (in)
Overall Dimensions:	
A	66 3/4
B	17 1/4
C	5 3/8 7 3/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chip left from corner of tread
Cracking along the length of back joint of riser
Crack bottom left corner of riser
Previous patching along the length of bed joint of riser
Crack right hand joint of tread / previous patching

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 301.5 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-25-22

WBP/GSD Representative:

Christopher Lehman

(Print)

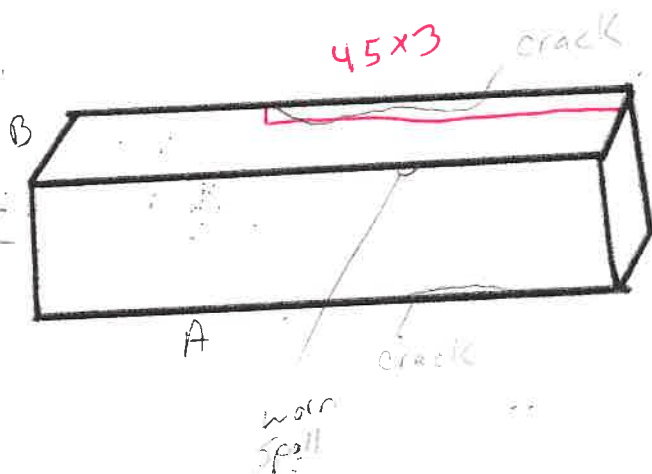
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing _____

SKETCH



Stone ID No.

53NE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₂	
C	5 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack along back joint of tread
Crack along bed joint of riser right side
Small worn spill on nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

Date: 9/9/22

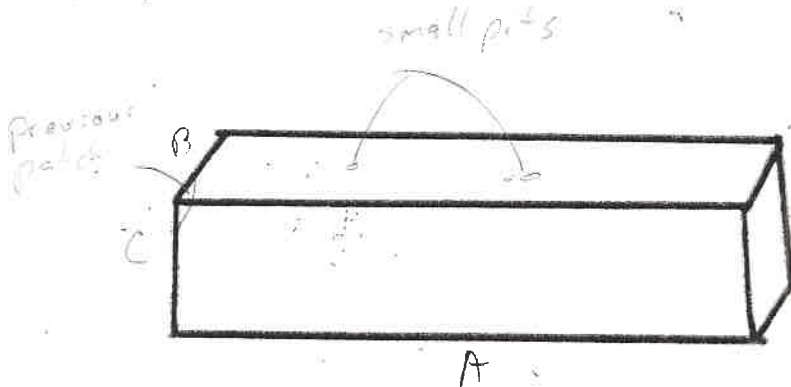
Stone Survey Sheet

Location Drawing 04.01
Storage Drawing _____

SKETCH

Stone ID No.
53NW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17	
C	5 1/2	7 1/2
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		



Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small pits starting on tread
Previous patch top left corner of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Lehman
(Print)

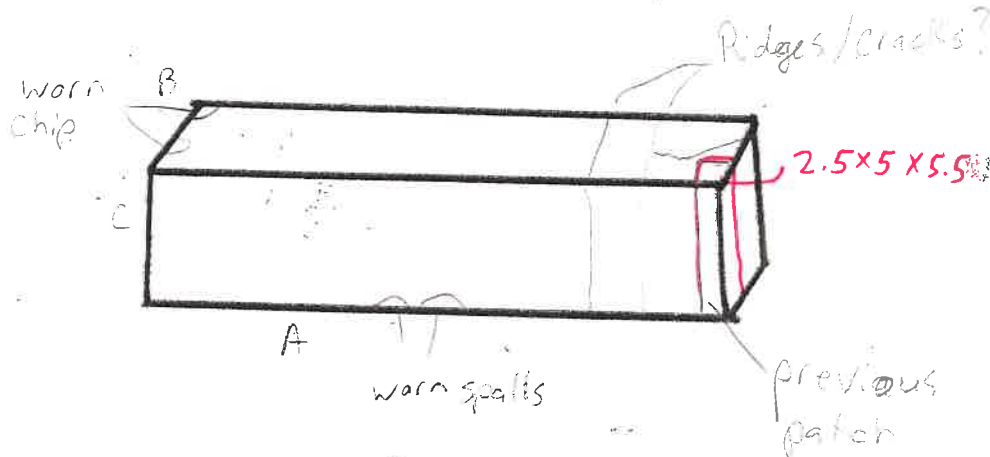
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing _____

SKETCH



Stone ID No
53Q

Location	Length (in)	
Overall Dimensions		
A	79	
B	17 3/8	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

worn chips on back left corner and left joint of tread

2 worn spalls near center of bed joint of riser

Ridges/cracks on right side tread + riser

Previous patch on right head joint of riser and right front corner of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 68.75 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Lehman

(Print)

(Signed)

Date: 8/9/22

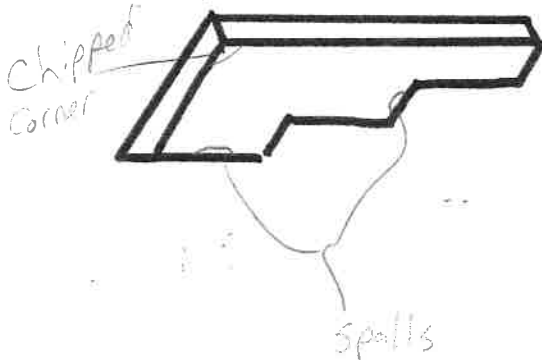
Plywood

Stone Survey Sheet

Location Drawing D4.03

Storage Drawing _____

SKETCH



Stone ID No.

53VE

Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls along bottom edge of stairs
Top left corner chipped/spalled

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)
Date: 9-22-22

WDP/GSD Representative:

(Print)

(Signed)

Date:

Stone Survey Sheet

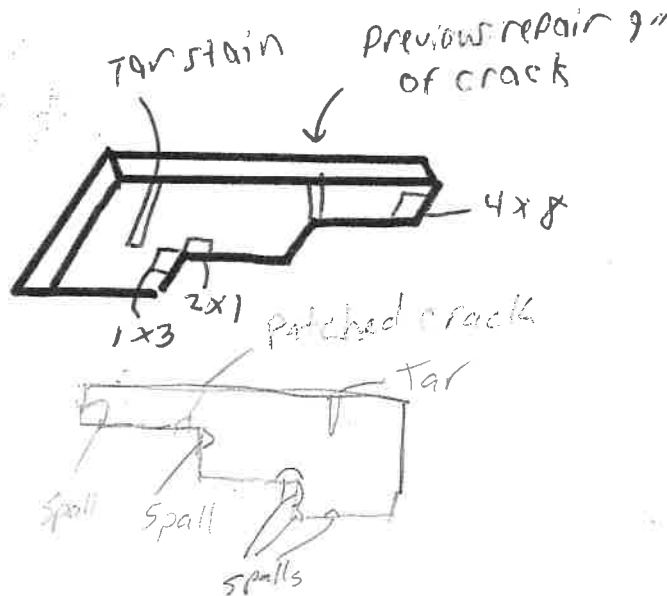
Location Drawing D4.04

Storage Drawing _____

SKETCH

Stone ID No.

53VW



Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Spall bottom left corner at joint with stair 54BW
- Spall on head joint with stair 54BW
- Patched crack across face from corner with 54BW to top of stone
- Tar down face right side
- Spalling around joint with stair 53CW both on head + head joints
- Spall on bed joint with stair 52BW

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 3.7 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-8-22

WDP/GSD Representative:

Chris Lehman
(Print)

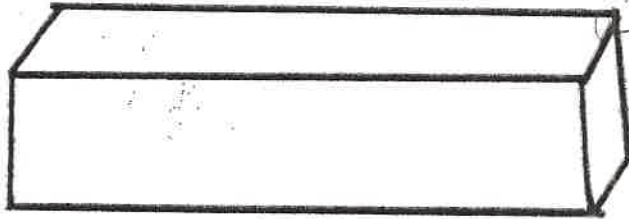
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/A/1 (No. end)

SKETCH



Stone ID No
54BE

Location	Length (in)	
Overall Dimensions		
A	30 5/16	
B	17 3/8	
C	5 3/8 7 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall back right corner of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative: Christopher Lehman

(Print)

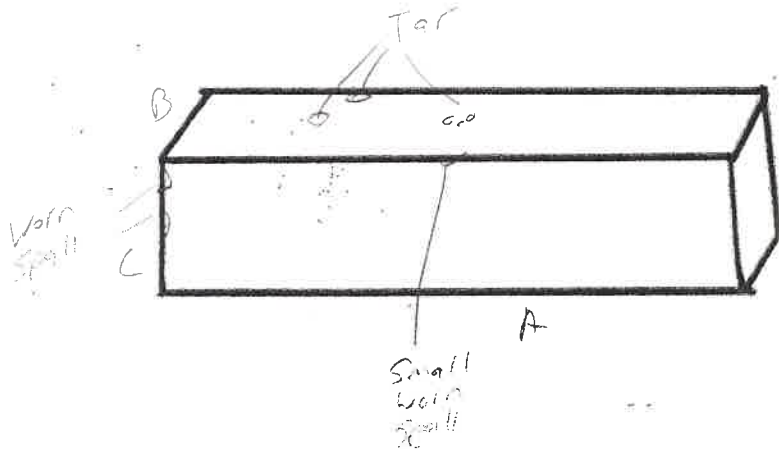
(Signed)

Date: 9/1/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

54BW

Location	Length (in)	
Overall Dimensions		
A	29 7/8	
B	17 1/2	
C	5 3/4	7 3/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 worn spills left + joint at corner
Small worn spill on nosing
Tar spots on tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDF/GSD Representative:

Christopher Lehman
(Print)

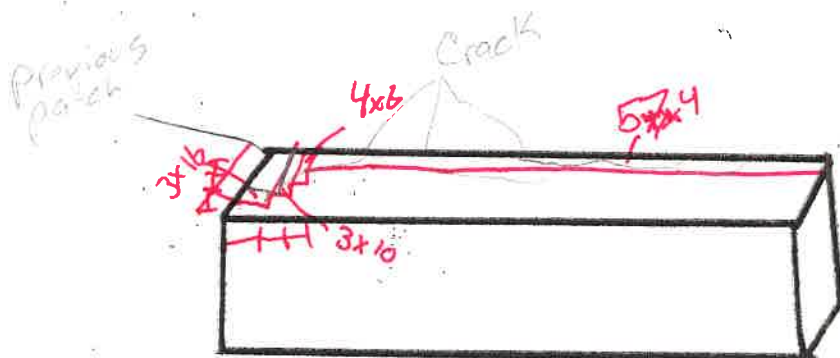
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/A/2

SKETCH



Stone ID No.
54DE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17	
C	5 ³ / ₈ 7 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous Patch back left corner of tread
Cracking along back joint tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 330 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

(Print)

(Signed)

Date: _____

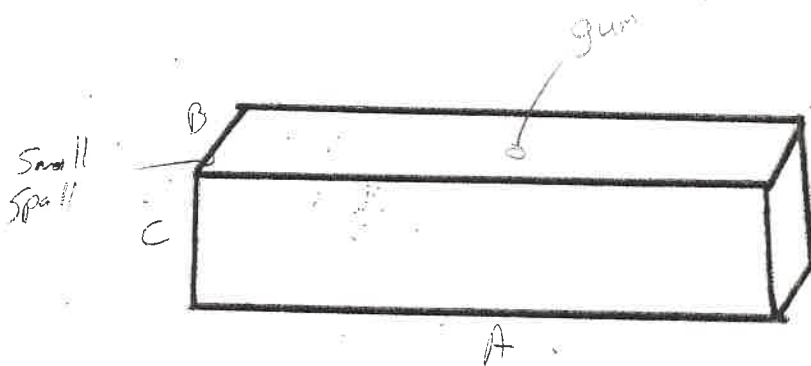
Stone Survey Sheet

Location Drawing D4.01

Storage Drawing _____

SKETCH

Stone ID No
54DW



Location	Length (in)
Overall Dimensions	
A	66 1/2
B	17 3/8
C	5 1/2 7 5/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall left joint of head near front corner
Small spot of gum on tread right side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-25-22

WDF/GSD Representative:

Christopher Lehman

(Print)

(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing 04.01

Storage Drawing DA/3

SKETCH



Stone ID No
54FE

Location	Length (in)	
Overall Dimensions		
A	66 1/4	
B	17 1/2	
C	5 1/4 7 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WBP/GSD Representative: Criller

(Print)

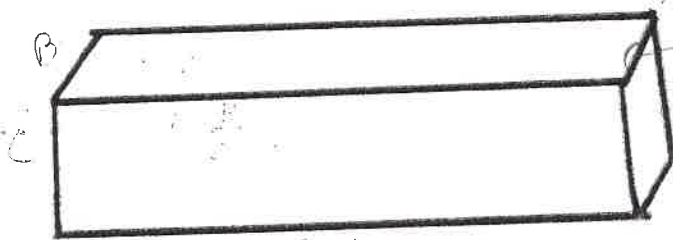
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.
54FW

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	17 ³ / ₄	
C	5 ¹ / ₂	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints:		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall Right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Lehman
(Print)

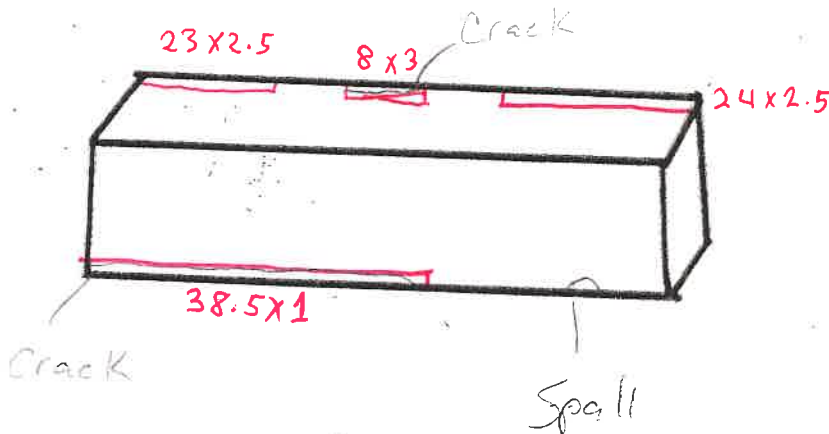
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing D/A/4

SKETCH



Stone ID No
54HE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₄	7 ¹ / ₂
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack running along right side of bed joint of riser
Crack along back joint of tread near center
Spall on right side of riser bed joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1.80 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative: CHRISTOPHER LEHMAN
(Print)

(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing _____

SKETCH



Stone ID No.
54HW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/8	
C	5 3/8 7 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall right joint of tread
Scratch left side of tread near joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WEP/GSD Representative:

Christopher Lehman
(Print)

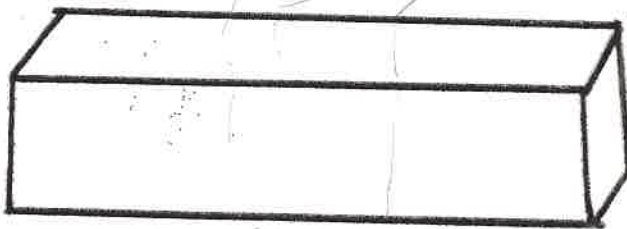
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.91
Storage Drawing D/A/5

SKETCH



Stone ID No.
54KE

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/4	
C	5 1/4 7 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Rigging; possible cracks on tread continuing down riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-24-22

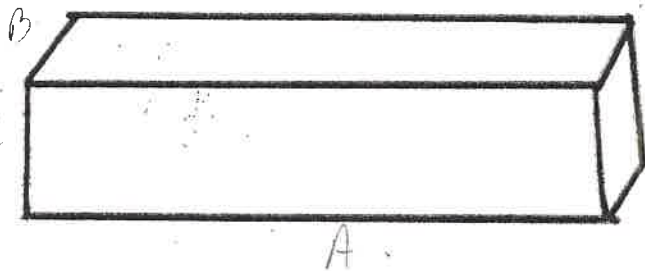
WBP/GSD Representative: _____ (Print) _____ (Signed) Date: _____

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing _____

SKETCH



Stone ID No.

54KW

Location	Length (in)	
Overall Dimensions		
A	67	
B	16 1/2	
C	5 1/4	5 1/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Wearing on center of nosing
Pitting front center of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

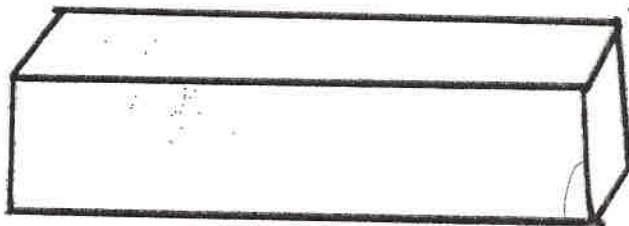
Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing D/A/6

SKETCH



no lip

previous patch
cracking out
1x3

Stone ID No

54ME

Location	Length (in)	
Overall Dimensions		
A	66 1/8	
B	17 3/8	
C	5 1/4	
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall Weathering; Pitting on tread and riser
Previous patch deteriorating/cracking out

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

Willis

(Print)

(Signed)

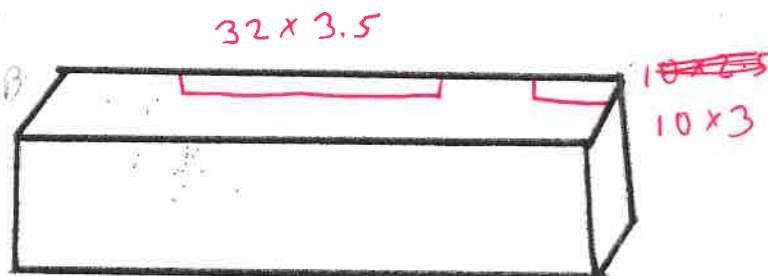
Date: 9-9-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing _____

Stone ID No
54MW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 3/8	
C	5 1/3	7 5/8
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 142 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-25-22

WEP/GSD Representative: Christopher Lehman
(Print)

[Signature]
(Signed)

Date: 9/9/22

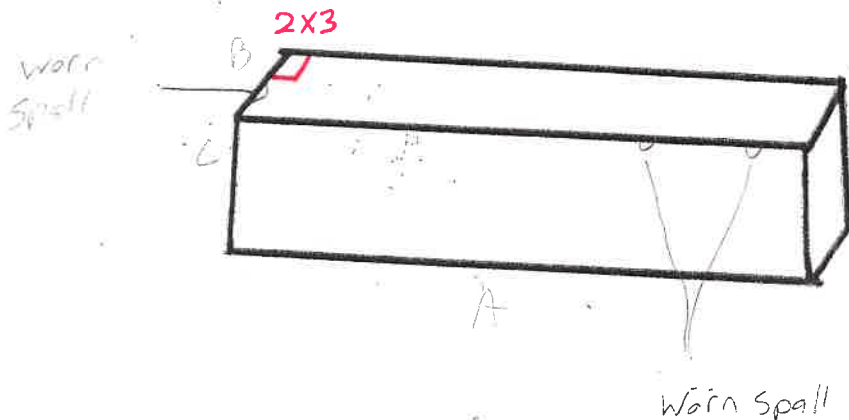
Stone Survey Sheet

Location Drawing D4.01

Storage Drawing _____

SKETCH

Stone ID N
54 PE



Location	Length (in)	
Overall Dimensions		
A	72 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spall on left joint of tread
2 worn spalls on right side of nosing

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 6 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

christopher Lehman
(Print)

(Signed)

Date: 9/9/22

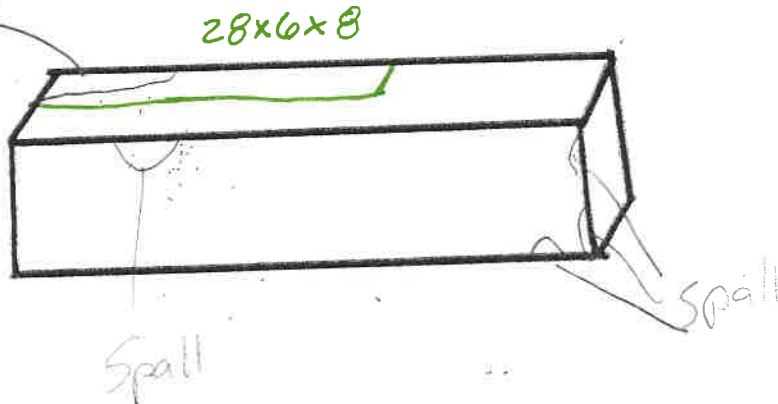
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/X/5

SKETCH

Stone ID No.
55CE

Broken/Missing



Location	Length (in)	
Overall Dimensions		
A	64 ³ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 Spalls on right head joint of riser
Spall on bed joint of riser right side
Spall on nosing left side

Broken/Missing Large piece of back left corner of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Dutchman 1344

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WBP/GSD Representative:

P Dillon
(Print)

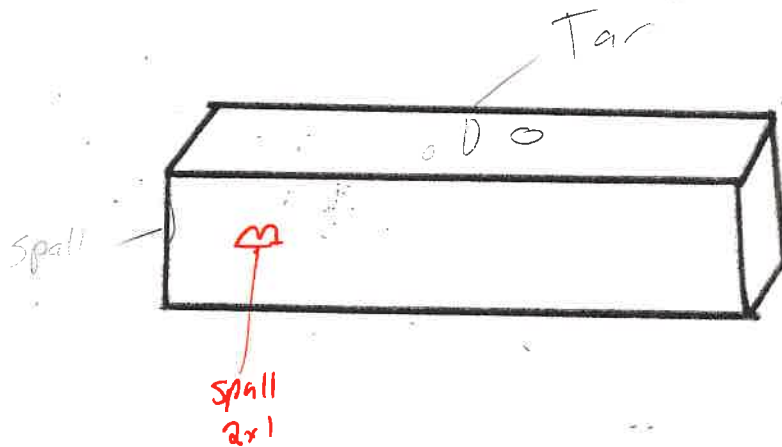
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Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/17/16

SKETCH



Stone ID No.
55CW

Location	Length (in)	
Overall Dimensions		
A	63 1/4	
B	17 3/8	
C	5 1/4	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Tar spots on tread
Spall left head joint of riser
spall base of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative: CVilla

(Print)

(Signed)

Date: 9-7-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C1X/G

SKETCH



Stone ID No.
55EE

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/2	
C	5 1/2	7 3/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall right joint of tread
Spall bed joint of riser right side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-24-22

WDP/GSD Representative:

Christopher Lehman
(Print)

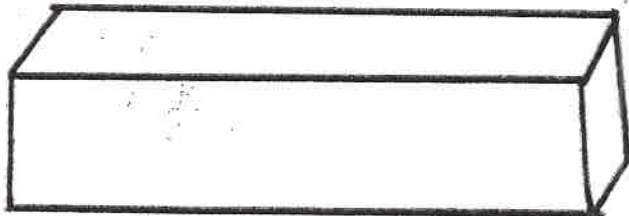
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(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing 104.01
Storage Drawing C/2/5

SKETCH



Stone ID No.
55EW

Location	Length (in)	
Overall Dimensions:		
A	65 1/2	
B	17 3/8	
C	5 7/8	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-24-22

WDP/GSD Representative:

Christopher Lehman
(Print)

[Signature]
(Signed)

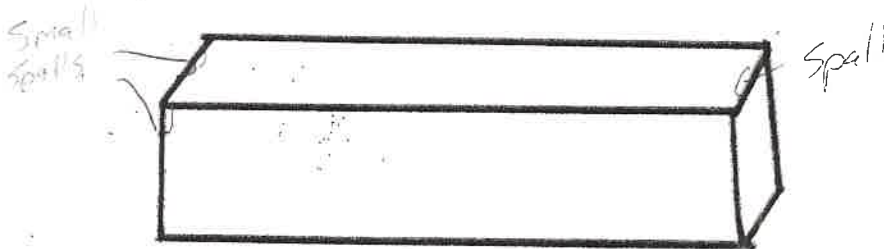
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C/100 Y/1

SKETCH



Stone ID No
55GE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
Mortar Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall right joint of tread
Small spalls back of left joint of tread
Small spall left head joint of riser

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair: _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-24-22

WDP/GSD Representative:

Christopher Lehman
(Print)

[Signature]
(Signed)

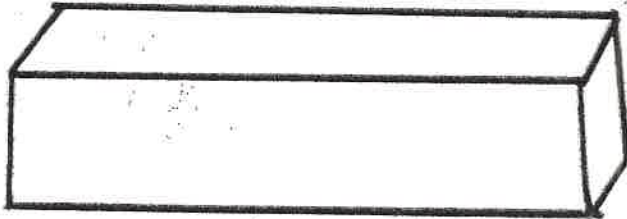
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C/E/A

SKETCH



Stone ID No.

55GW

Location	Length (in)	
Overall Dimensions		
A	66 ² / ₃	
B	17 ¹ / ₄	
C	5 ³ / ₈	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

Christopher Lehman

(Print)

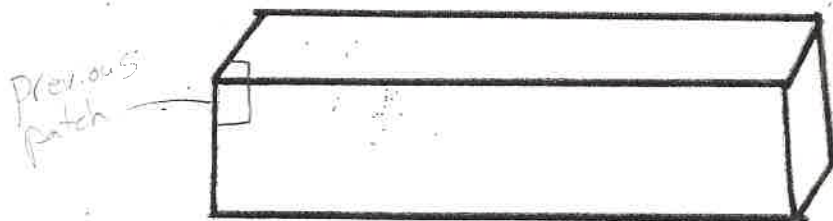
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/V/2

SKETCH



Stone ID No.
55WE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/4	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous Patch top left corner of stone

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0.0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-24-22

WDP/GSD Representative: C. Miller

[Signature]
(Print)

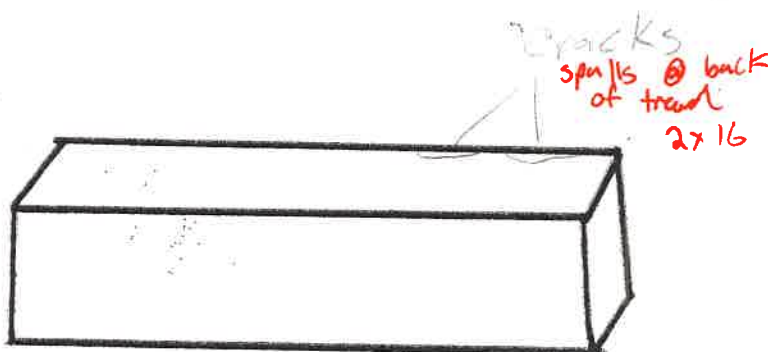
[Signature]
(Signed)

Date: 9.9.22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C12/3

SKETCH



Stone ID No.

55JW

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Cracks on back joint of tread right side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 32 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson

(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative: Crilla

(Print)

(Signed)

Date: 9-1-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing 6/8/3

SKETCH

Stone ID No.
55LE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/2	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		



Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall left joint of tread
Spall right joint of tread near corner
Spall top right corner of riser

Stone cleaning recommended: Minor Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 in³

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

Date: 9/9/22

Stone Survey Sheet

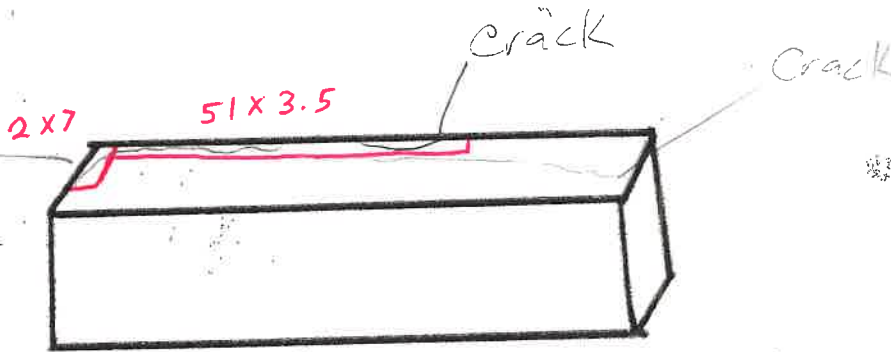
Location Drawing D4.01

Storage Drawing C1Z/2

SKETCH

Stone ID No.

55LW



Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ³ / ₈	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top	↑	
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 Cracks along back joint starting right of center running along joint to back left corner of tread
Crack from back joint left of center running to right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 122.5 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WBP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C14/4

SKETCH



Spall

Stone ID No.
55 NE

Location	Length (in)	
Overall Dimensions		
A	66 ¹³ / ₁₆	
B	17 ¹ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on bottom right corner of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

Christopher Lehman
(Print)

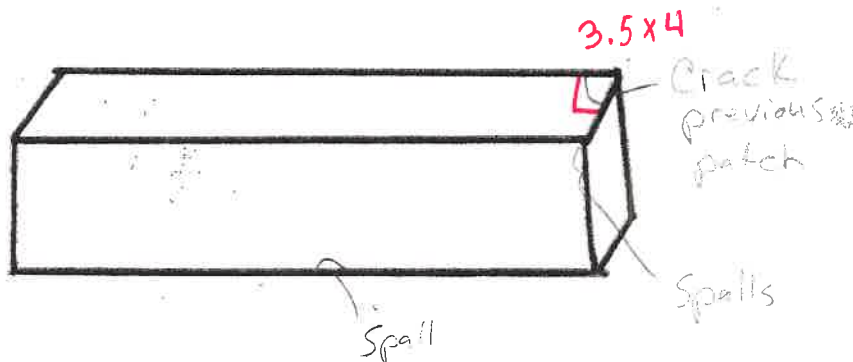
(Signed)

Date: 9/18/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/Z/1

SKETCH



Stone ID No.
55NW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ⁵ / ₈	
C	5 ³ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous patch is cracked back right corner of tread
Spalls on right head joint of riser
Spall near center of bed joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 14 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

CHRISTOPHER LEHMAN
(Print)

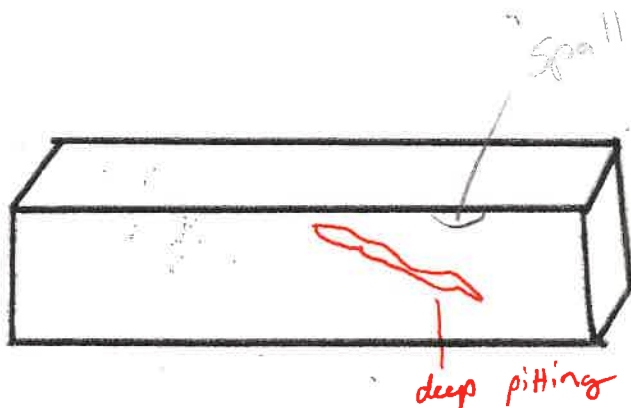
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/Y/5

SKETCH



Stone ID No.
55Q

Location	Length (in)	
Overall Dimensions		
A	78 3/8	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall weathering; Pitting tread and riser
Spall on right side of nosing
Nose has been rounded off by weathering

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

P Dillon
(Print)

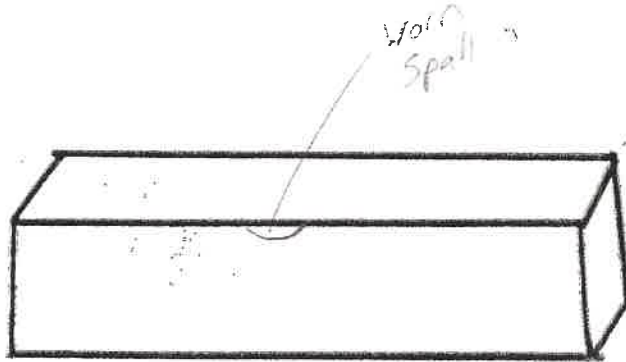
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Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/V/6

SKETCH



Stone ID No
50BE

Location	Length (in)	
Overall Dimensions		
A	30 1/2	
B	17 1/2	
C	5 5/8	7 3/8
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spall center of nosing / face of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative: Christopher Lthman
(Print)

(Signed)

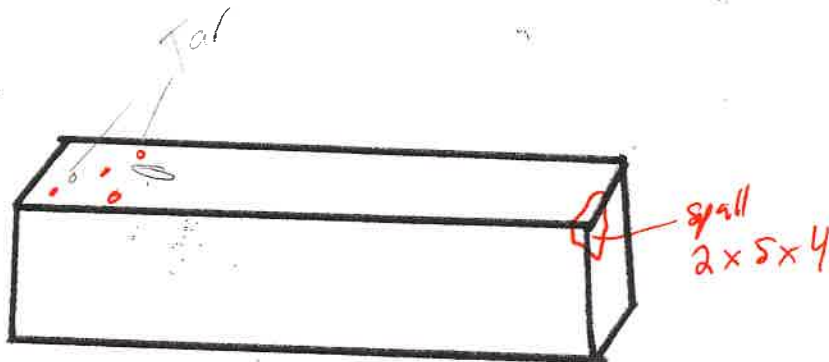
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C/X/4

SKETCH



Stone ID No.
56BW

Location	Length (in)	
Overall Dimensions:		
A	29 9/16	
B	17 3/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

11 spots of tar on left side of trench
Spall on right hand joint side behind trench

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 40 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

Criller
(Print)

(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C1V17

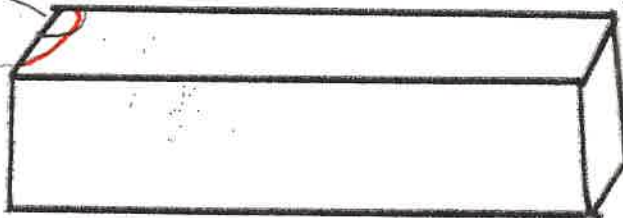
SKETCH

Stone ID No.

56DE

Large chip
3x19x3

Crack



Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/8	
C	5 1/2	7 3/4
Mortar Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large chip back left corner of tread, continuous to left joint
Crack running from large chip to left joint head joint

• Stone cleaning recommended: Minor Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 117 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

SR
(Signed)

Date: 8-24-22

WEP/GSD Representative:

Avila
(Print)

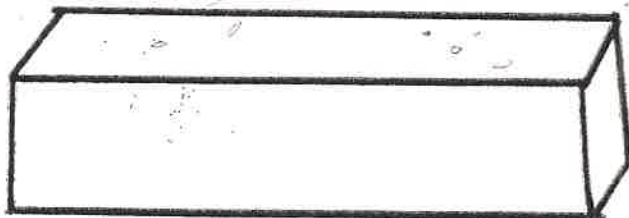
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(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/X/3

SKETCH



Stone ID No.
56DW

Location	Length (in.)	
Overall Dimensions		
A	66	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small tar spots across + end

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-24-22

WDP/GSD Representative:

Christopher Lehman
(Print)

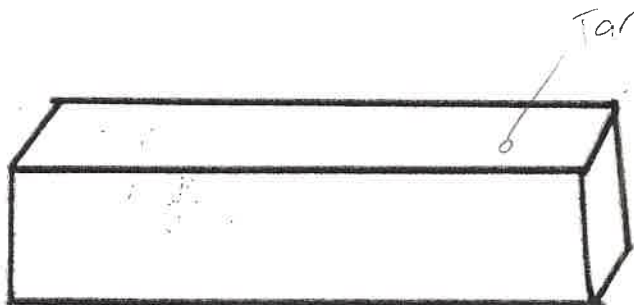
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(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/X/2

SKETCH



Stone ID No.
56FW

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 7/8	
C	5 5/8	7 5/8
Mortar Joints		
D	Left	Right
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Tar spot front right of tread

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

(Print)

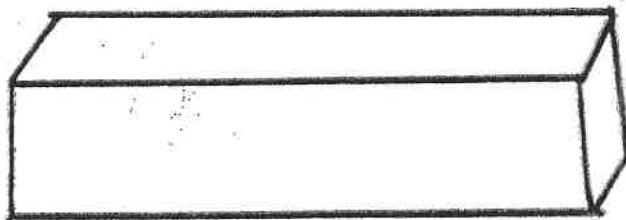
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/V/9

SKETCH



Stone ID No.

56HE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	16 ⁷ / ₈	
C	5 ³ / ₈	7 ⁵ / ₈
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair
- Patching required? Yes / **No** (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / **No**

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WBP/GSD Representative:

Christopher Lehman
(Print)

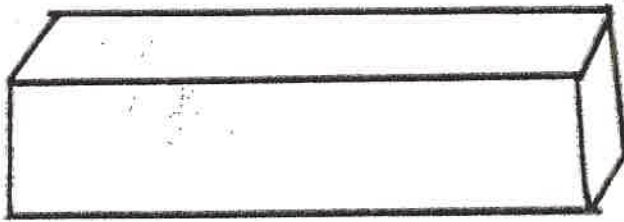
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/X/1

SKETCH



Stone ID No.
56HW

Location	Length (in)	
Overall Dimensions		
A	66	3/4
B	17	5/16
C	5	7/16 7 1/2
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-24-22

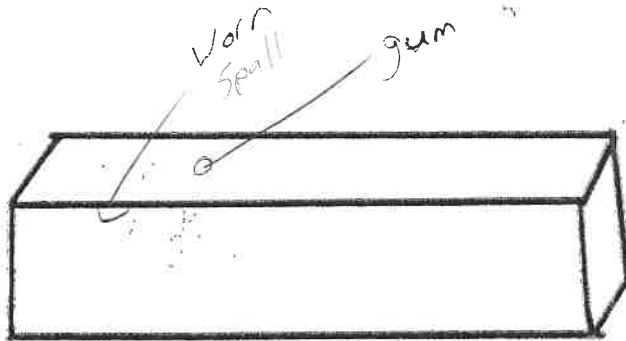
WEP/GSD Representative: Orilla (Print) [Signature] (Signed) Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/W/I

Stone ID No.
50KE

SKETCH



Location	Length (in)
Overall Dimensions	
A	66 3/4
B	17 3/8
C	5 5/8 7 3/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spall left side of nosing
gum spot left side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative: Miller

(Print)

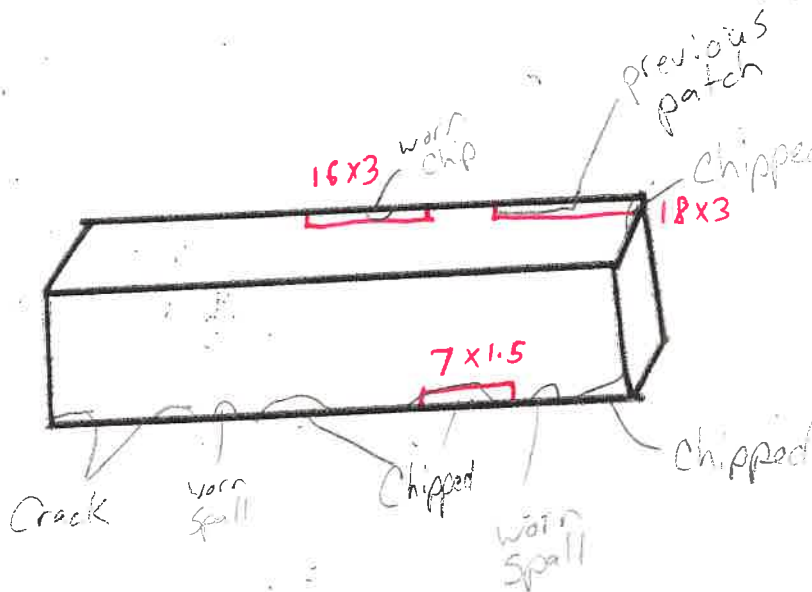
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/W/6

SKETCH



Stone ID No.
56KW

Location	Length (in)
Overall Dimensions	
A	66 3/4
B	17 5/8
C	5 1/2 7 5/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 cracks left side of riser near bed joint
Worn spall left side of riser bed joint
2 Large chips right side of riser bed joint
Worn spall right side of riser bed joint
Chipped corner bottom right of riser
Worn chip back center of tread

Previous patch back right of tread
Chipped corner back right of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 112.5 [in³]

To be documented on ground after handling and storage _____

Stone to be replaced (by Contractor)? Yes / No

Checklist

☒ Photographed prior to removal

☒ Add building reference points for existing location

☐ Existing conditions prevent removal per rigging plan

☒ Photographed after removal

☒ Documentation of areas to be patched

☒ Labeled with Stone ID

☒ Labeled stone with location of mortar joint lines above

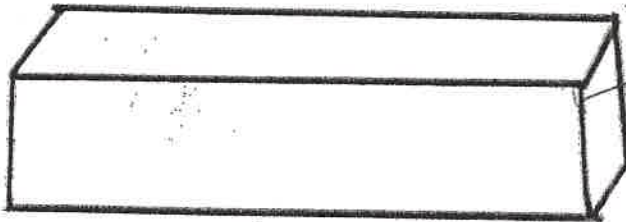
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-24-22

WBT/GSD Representative: Christopher Lehman (Print) [Signature] (Signed) Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/W/2

SKETCH



Small
chip

Stone ID No
56ME

Location	Length (in)
Overall Dimensions	
A	67 1/2
B	17 1/2
C	5 5/8 7 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chip top right corner of side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WBP/GSD Representative: C. Miller

(Print)

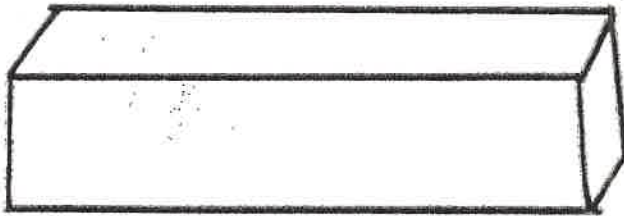
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/W/5

SKETCH



no lip

Stone ID No.

56 MW

Location	Length (in)	
Overall Dimensions		
A	26 3/4	
B	16 3/8	
C	5 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: _____ [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WBP/GSD Representative: Chilla

(Print)

(Signed)

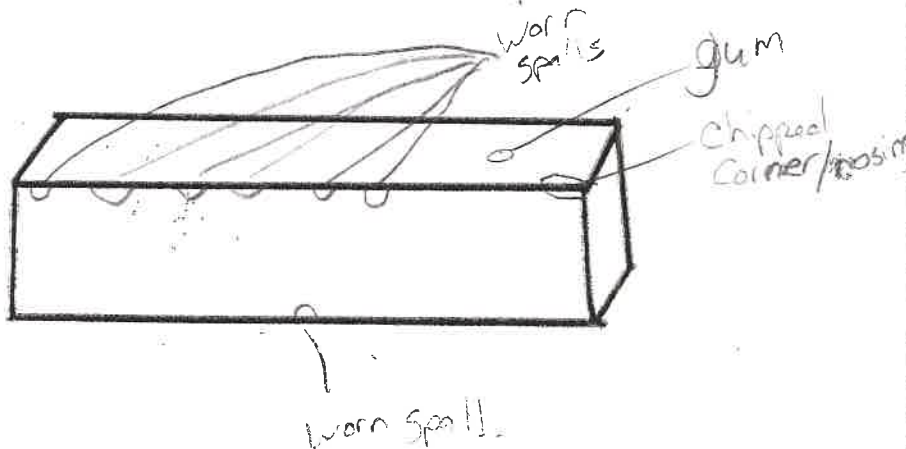
Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C/W/3

SKETCH



Stone ID No.

50PE

Location	Length (in)	
Overall Dimensions		
A	73	
B	17 1/4	
C	5 1/2	7 1/2
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn Spall center of bed joint of riser
Chipped corner/nosing top right of riser
gum spot right side of tread
6 worn spalls on nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

Christopher Lehman

(Print)

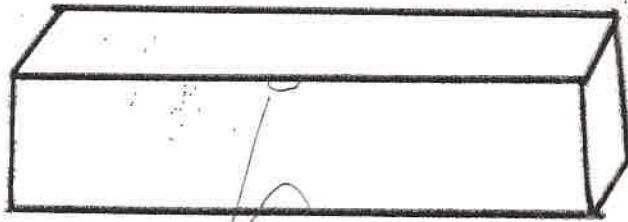
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/W/4

SKETCH



Worn
Spall

Stone ID No.
56PW

Location	Length (in)	
Overall Dimensions		
A	73 5/16	
B	17 1/4	
C	5 1/2 75 1/8	
Mortar Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Miscellaneous		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall center of nosing
Worn Spall center of bed joint of nosing

- Stone cleaning recommended: ~~Minor~~ / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

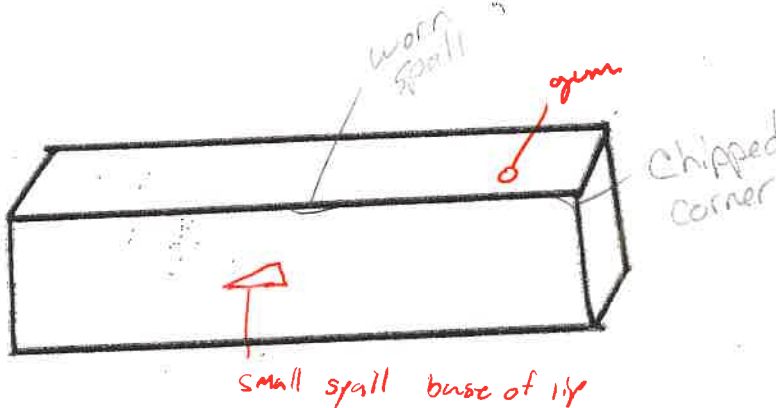
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-24-22

WDP/GSD Representative: CWilla (Print) [Signature] (Signed) Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/U/2

SKETCH



Stone ID No.
57CE

Location.	Length (in)	
Overall Dimensions		
A	63	5/8
B	17	3/8
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Minor Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spall on nosing
Chipped corner top right of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

(Print)

Chiller

(Signed)

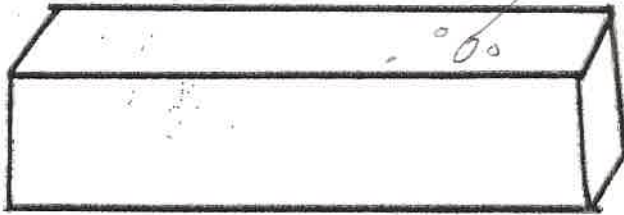
CUTM

Date: 9-9-20

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing CN/5

SKETCH



Stone ID No.
57CW

Location	Length (in)	
Overall Dimensions:		
A	63	
B	17 1/2	
C	5 1/2	76 1/8
Mortar Joints:		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints:		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Tar spots right side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WBP/GSD Representative: C. Miller

(Print)

(Signed)

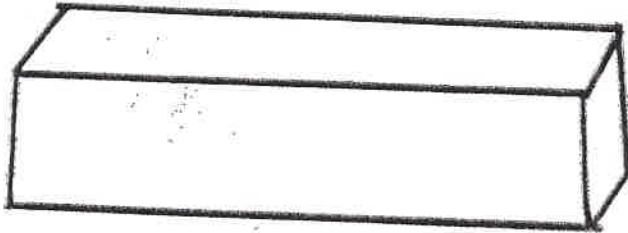
Date: 9-9-20

Stone Survey Sheet

Location Drawing 14.01

Storage Drawing C/U/3

SKETCH



Stone ID No
57EE

Location	Length (in)
Overall Dimensions	
A	66 3
B	17 3
C	5 7/16 7 5/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

Christopher Lehman

(Print)

(Signed)

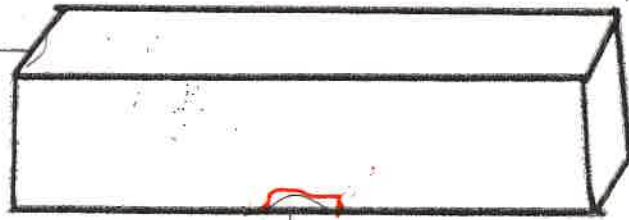
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C1V14

SKETCH

Worn
Spall



Previous
Patch
3x1

Stone ID No
57EW

Location	Length (in)	
Overall Dimensions		
A	66 1/4	
B	19 3/8	
C	5 3/8	7 5/8
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous patch left of center bed joint of riser
Worn spall left joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative: Chilla

(Print)

(Signed)

Date: 9-9-22

Stone Survey Sheet

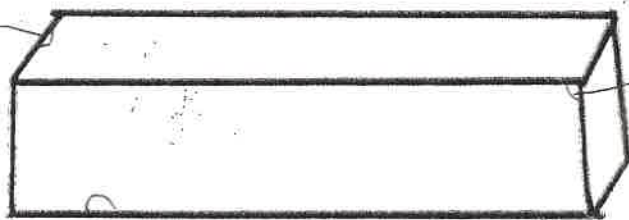
Location Drawing D4.01
Storage Drawing C/W/4

SKETCH

Stone ID No.
57GE

Location	Length (in)	
Overall Dimensions		
A	66 1/2	
B	17 1/2	
C	5 1/2 75/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

worn
spall



worn
chip

worn
spall

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

worn chipped corner top right of riser
worn spall left side of bed joint of riser
worn spall left joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / **No** (if yes, shade the area on the sketch)
- Volume of Patching: **8** [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / **No**

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

(Print)

Onila

(Signed)

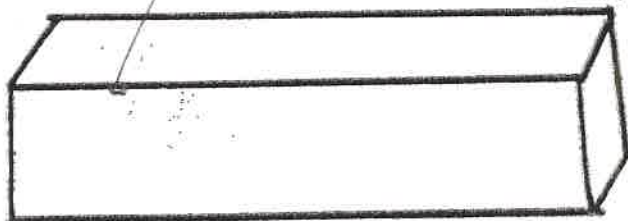
Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C/10V/3

SKETCH



Small worn chip

Stone ID No.

57GW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 3/4	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small worn chip left side of casing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

Date: 9/9/22

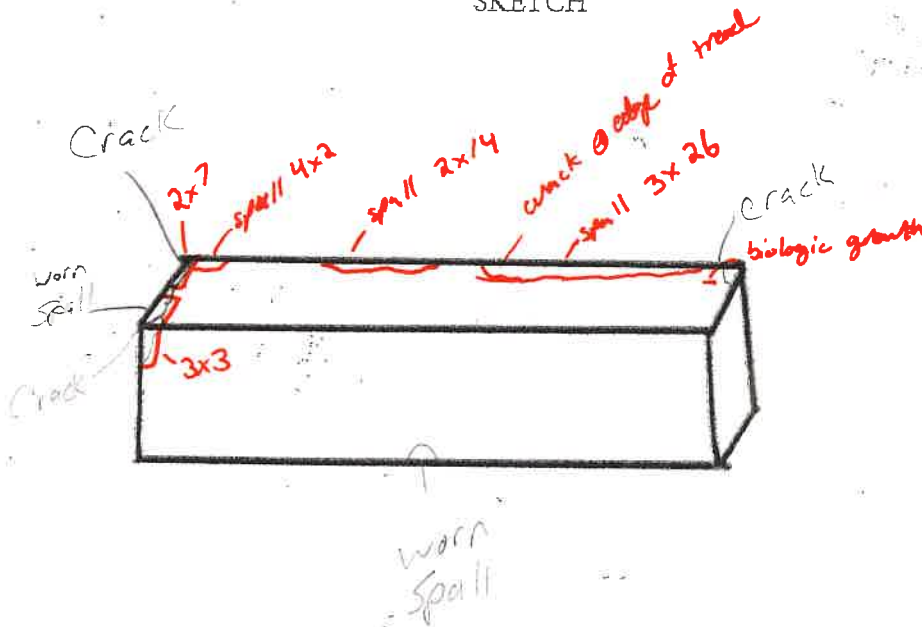
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/U/5

Stone ID No.

57JE

SKETCH



Location	Length (in)
Overall Dimensions	
A	66 7/8
B	17 1/4
C	5 1/2 7 1/8
Minor Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Minor Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack back right corner of tread
Worn spall center of bed joint of riser
Worn spall front of left joint of tread with cracks
Crack top left of riser
Crack back left of tread along joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: Patch
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 136 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-24-22

WEP/GSD Representative:

C. Viller
(Print)

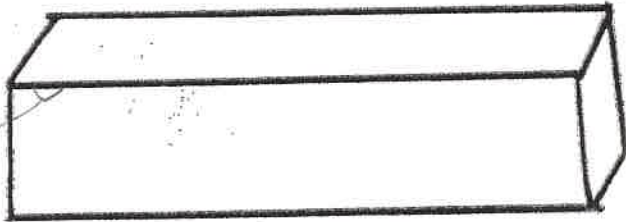
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(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/V/2

SKETCH



Stone ID No.
57JW

Location.	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/4	
C	5 5/8	75/8
Joint Dimensions		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chip left side of nosing near corner

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

CVilla
(Print)

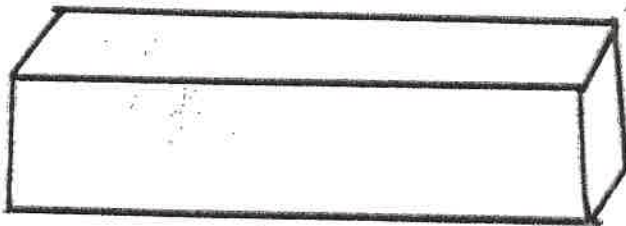
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/U/G

SKETCH



Stone ID No
57LE

Location	Length (in)	
Overall Dimensions		
A	67	
B	16 ⁷ / ₁₆	
C	5 ³ / ₈	5 ⁵ / ₈
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative: Christopher Lehman

(Print)

(Signed)

Date: 9/9/22

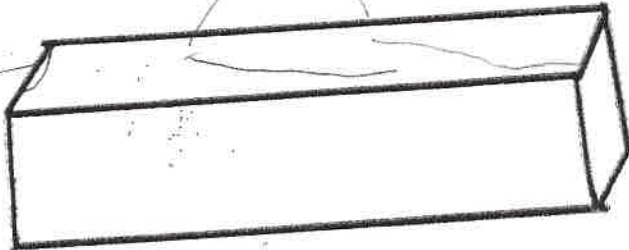
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing CIV11

SKETCH

Stone ID No.
57LW

Worn
Spall
1x3



Location	Length (in)	
Overall Dimensions		
A	66 1/2	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Major Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spall left joint of tread
2 cracks on tread from center running to right joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 3 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

Civila
(Print)

(Signed)

Date: 9-9-22

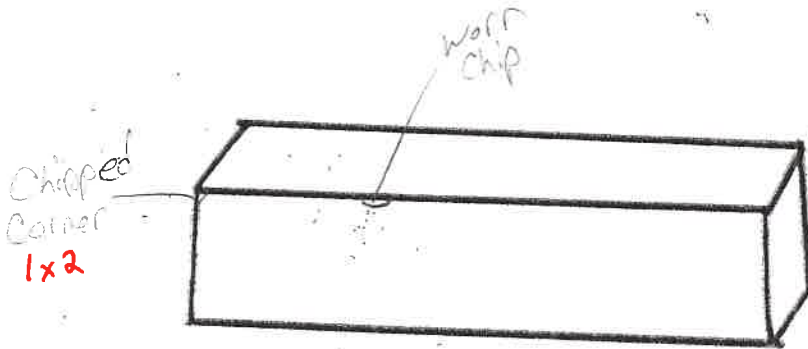
Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C1W17

SKETCH

Stone ID No
57NE



Location	Length (in)
Overall Dimensions	
A	67
B	17 1/2
C	5 1/2 7 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner top left of riser

Worn chip left center on nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

(Print)

(Signed)

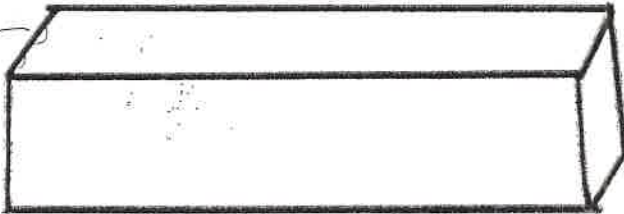
Date: 9-9-22

Stone Survey Sheet

Location Drawing D4, 01
Storage Drawing C/U/9

SKETCH

Worn
chips



NO LIP

Stone ID No.
57NW

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 3/8	
C	5 3/8	5 3/8
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall weathering; pitting
Worn chips left joint of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

Christopher Lehman
(Print)

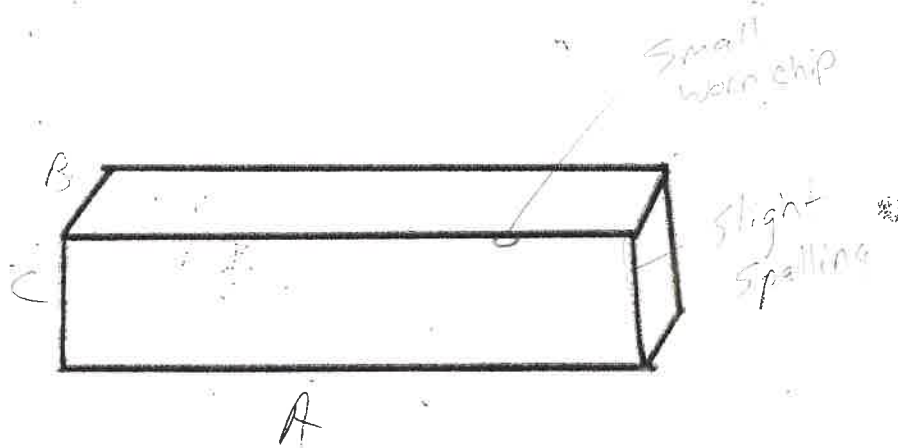
(Signed)

Date: 9/19/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/516

SKETCH



Stone ID No.

58BE

Location	Length (in)	
Overall Dimensions		
A	30 1/2	
B	17 7/8	
C	5 1/2	7 1/4
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small wear chip on nosing, right side
Slight spalling on right head joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Pitching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-23-22

WDP/GSD Representative:

Cullen
(Print)

[Signature]
(Signed)

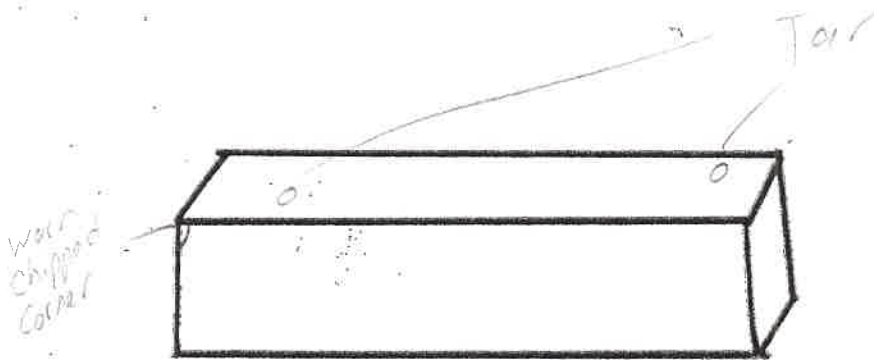
Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C14/1

Stone ID No.
58BW

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	30 1/2	
B	17 3/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chipped corner top left of riser
2 tar spots on tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

(Signed) [Signature] Date: 8-24-22

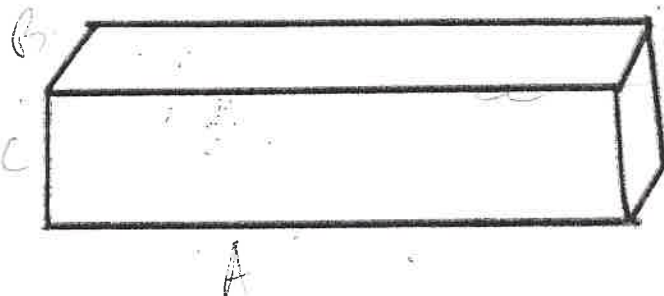
WDP/GSD Representative: Willie
(Print)

(Signed) [Signature] Date: 9-9-22

Stone Survey Sheet

Location Drawing 04.01
Storage Drawing C/S/7

SKETCH



Stone ID No.
58DE

Location	Length (in)
Overall Dimensions	
A	66 3/4
B	17 1/2
C	5 1/2 7 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 small spalls right side of nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

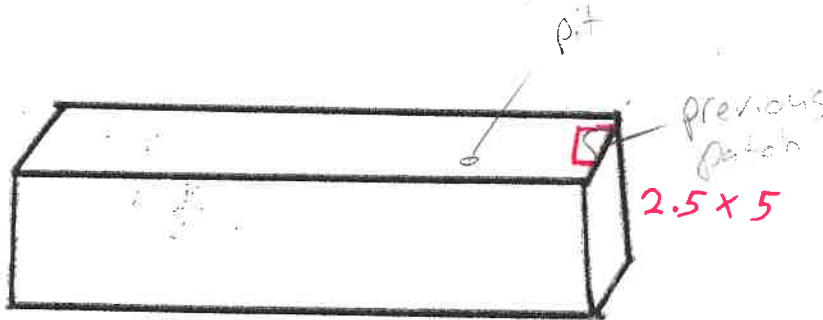
Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C/T/9 (N. end)

SKETCH



Stone ID No
58DW

Location	Length (in)	
Overall Dimensions		
A	65 3/4	
B	17 3/4	
C	5 3/4	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large previous patch right joint of tread
pit on right side of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 12.5 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

CHRISTOPHER LEHMAN
(Print)

(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01

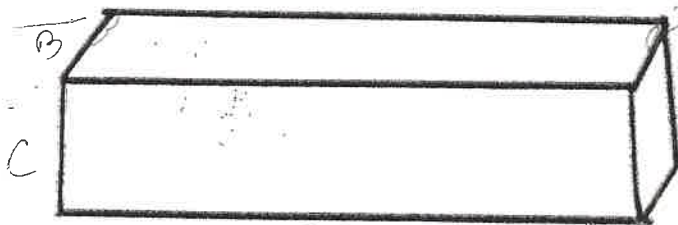
Storage Drawing C15.18

SKETCH

Stone ID No

58FE

worn
spalls



A

Location.	Length (in)	
Overall Dimensions		
A	66	7/8
B	17	1/4
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 worn spalls back of left joint of tread
worn spall back of right joint of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-23-22

WEP/GSD Representative:

CVilla

(Print)

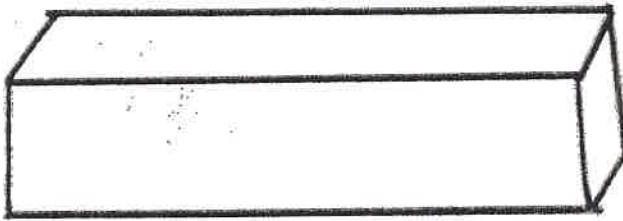
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/T/8

SKETCH



Stone ID No.
58FW

Location	Length (in)
Overall Dimensions	
A	6 3/4
B	17 3/4
C	5 1/2 7 3/4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed) [Signature] Date: 8-24-22

WDP/GSD Representative: Crill
(Print)

(Signed) [Signature] Date: 9-9-22

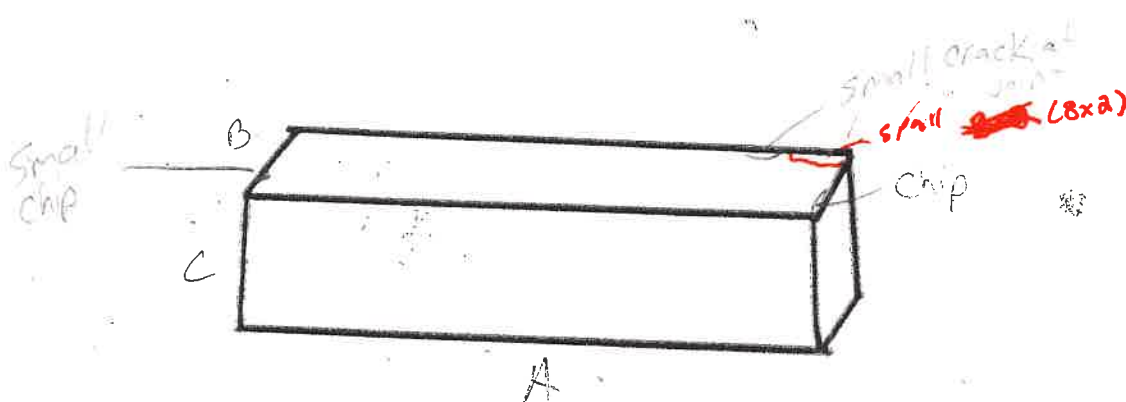
Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C15/9

SKETCH

Stone ID No
58HE



Location	Length (in)
Overall Dimensions	
A	66 3/4
B	17 1/4
C	5 1/2 7 1/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chip left joint of tread
Small crack on back joint of tread right side
Chip on right joint of tread near front corner
spall behind back right tread corner

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 16 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-23-22

WEP/GSD Representative:

Crilla

(Print)

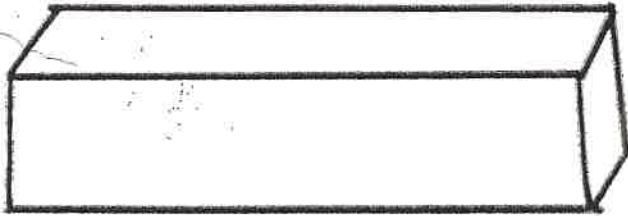
(Signed)

Date: 9-2-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing CIT/7

SKETCH



Stone ID No.
58HW

Location	Length (in)	
Overall Dimensions		
A	66	13
B	17 1/4	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Weathering; Pitting beginning on face
Crack starting front left joint of road to rising

• Stone cleaning recommended: Minor Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

(Print)

CVilla

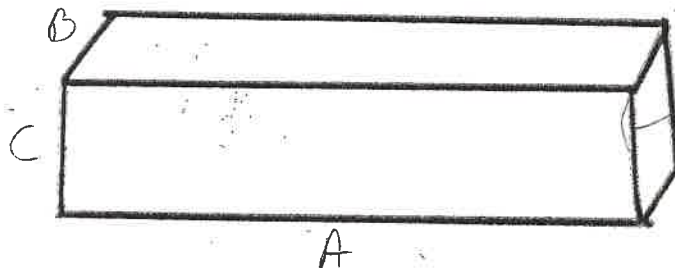
(Signed)

Date: 9-9-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/T/1 4

SKETCH



Stone ID No.
58KE

Location	Length (in)
Overall Dimensions	
A	66 13/16
B	17 7/16
C	5 1/2 75/8
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall right head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

(Print)

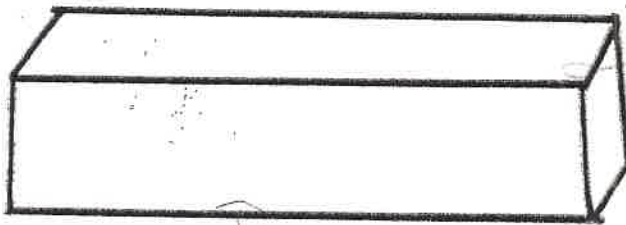
(Signed)

Date: 9-8-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing CIT/6

SKETCH



Stone ID No.
58KW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/8	
C	5 1/2	75 1/2
Material Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Material Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on bed joint of corner near center
Worn spall right joint of head near front corner

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-24-22

WEP/GSD Representative:

Orilla
(Print)

[Signature]
(Signed)

Date: 4-9-22

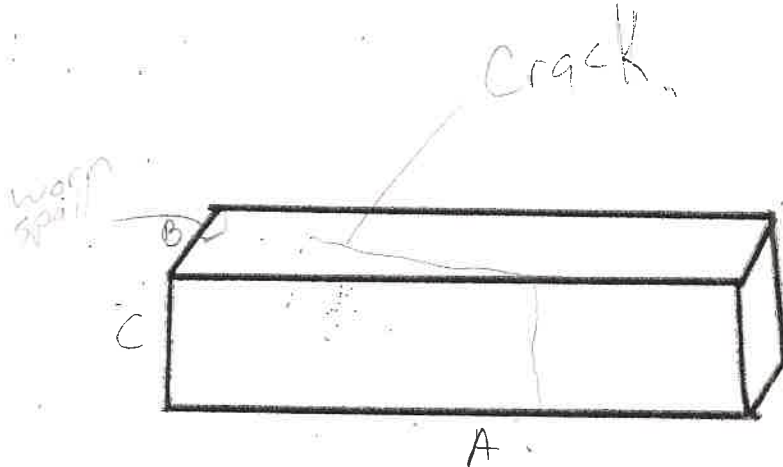
Stone Survey Sheet

Location Drawing D4.01
Storage Drawing C/T/2

Stone ID No.

58ME

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 3/16	
B	17 1/2	
C	55 5/8 7 3/4	
Mortar Joints		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall back left corner of tread
Crack on tread running from left side to nosing on right
Continuing down riser face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-23-22

WBP/GSD Representative:

Christopher Lehman

(Print)

(Signed)

Date: 9/8/22

Stone Survey Sheet

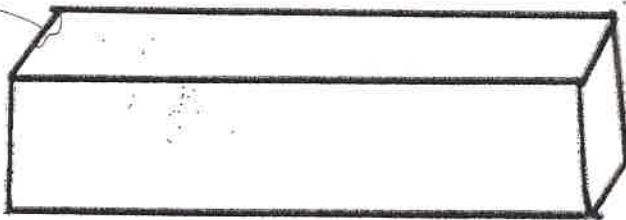
Location Drawing 14.01

Storage Drawing C/T/5

SKETCH

Stone ID No.
58MW

Small
Worn
Spalls



Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₄	
C	5 ¹ / ₂	7 ¹ / ₂
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Major Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small worn spalls left joint exposed

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scot Johnson
(Print)

(Signed)

Date: 8-24-22

WEP/GSD Representative:

Christopher Lehman
(Print)

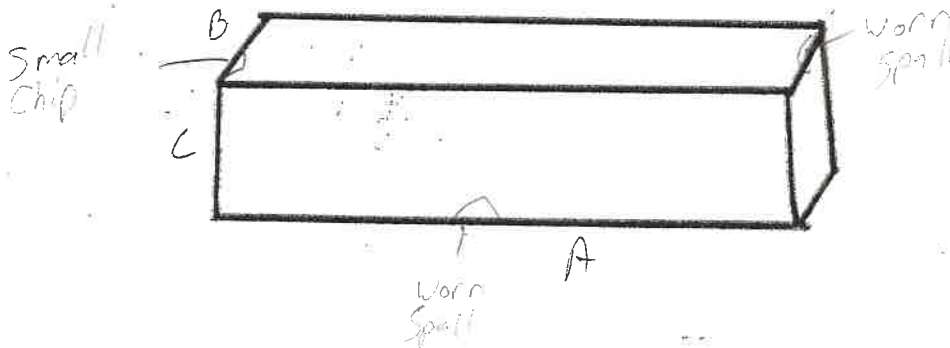
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Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing CIT/3

SKETCH



Stone ID No.
58PE

Location	Length (in)	
Overall Dimensions		
A	72 3/4	
B	17 1/4	
C	5 1/2	7 1/2
Joint Lines		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chip left joint of tread
Worn spall on bed joint of riser left of center
Worn spall right joint of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Crilla

(Print)

(Signed)

Date: 9-9-22

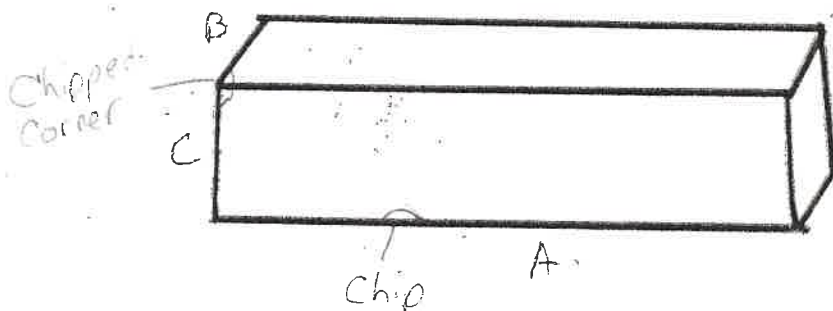
Stone Survey Sheet

Location Drawing D4.01

Storage Drawing C/T/4

SKETCH

Stone ID No.
58PW



Location	Length (in)
Overall Dimensions	
A	72 3/4
B	17 1/2
C	5 1/2
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall weathering

• Stone cleaning recommended Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-23-22

WBP/GSD Representative:

CVilla

(Print)

(Signed)

Date: 9-7-22

Limestone Intermediate Landing Pavers

Row 61

Stone Survey Sheet

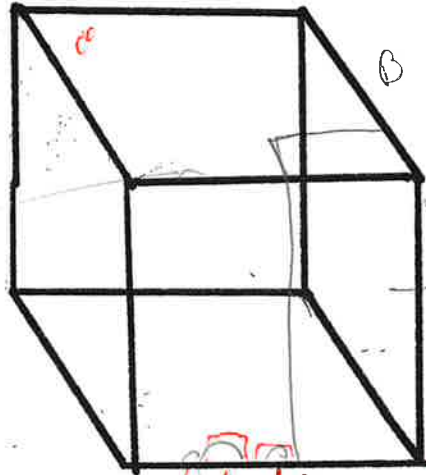
Location Drawing D4.01
Storage Drawing _____

SKETCH

Stone ID No.

WICE

Location	Length (in)	
Overall Dimensions:		
A	65	
B	73 3/4	
C	53 1/4 43 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		



Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spalls left side of nosing
3 Worn spalls on bed joint of riser
Large Previous patch on right corners of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 18 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Clilla
(Print)

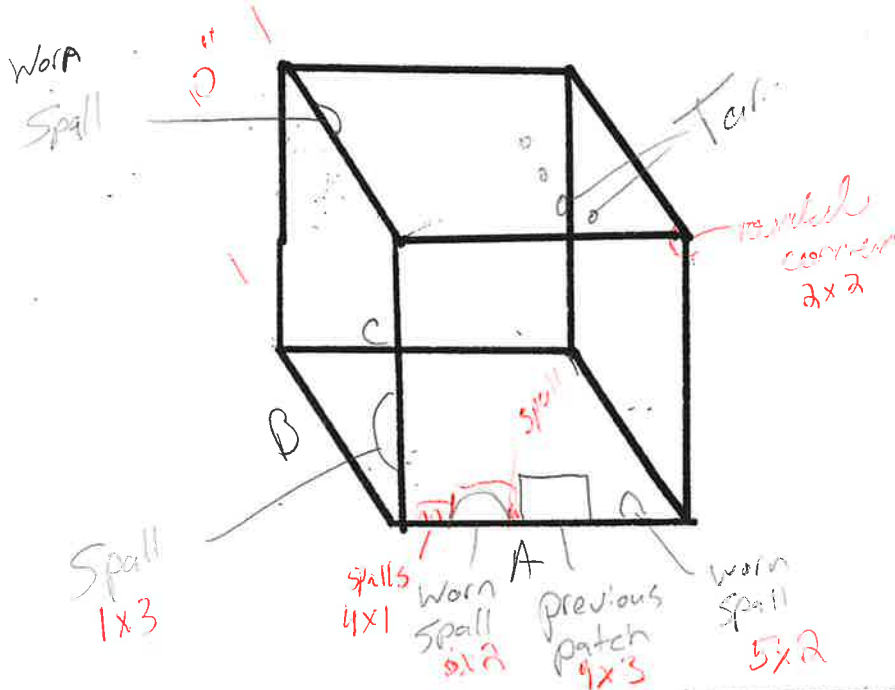
(Signed)

Date: 9-20-22

Stone Survey Sheet


Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WICW

Location	Length (in)	
Overall Dimensions		
A	63 5/8	
B	74	
C	5 1/2 	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on left head joint of riser
Worn spall left side of bed joint on riser
Worn spall right side of bed joint on riser
Previous patch face of riser left of center
Worn spall left joint of tread near back

Tar spots along right side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 60 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Cliff
(Print)

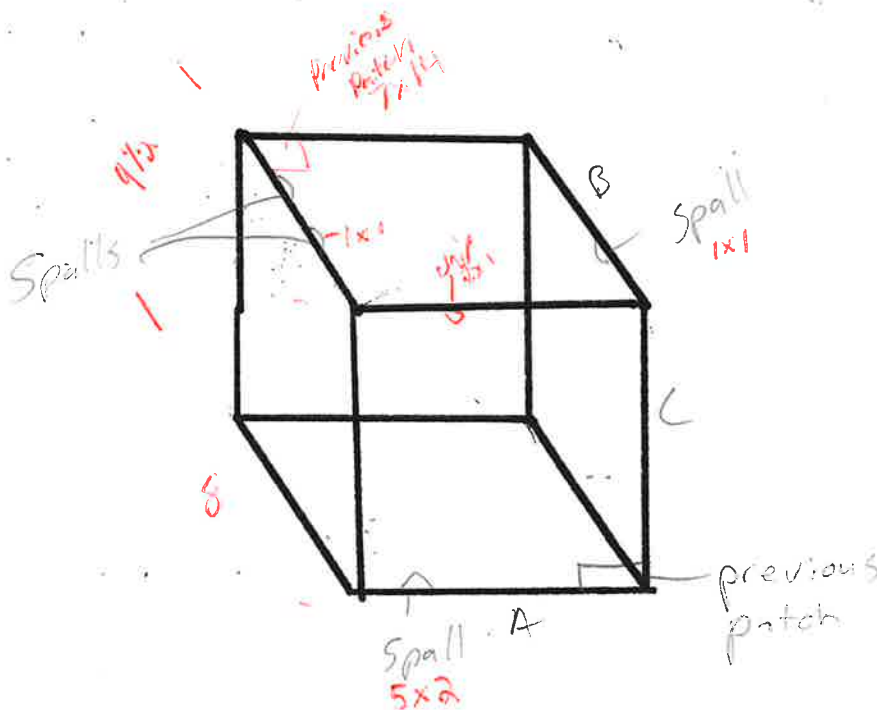
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WIEE

Location	Length (in)	
Overall Dimensions:		
A	66 1/4	
B	73 7/8	
C	55 5/8 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 spalls left joint of tread
Spall right joint of tread
Spall on bed joint of riser
Previous patch bottom right corner of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 112 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

(Print)

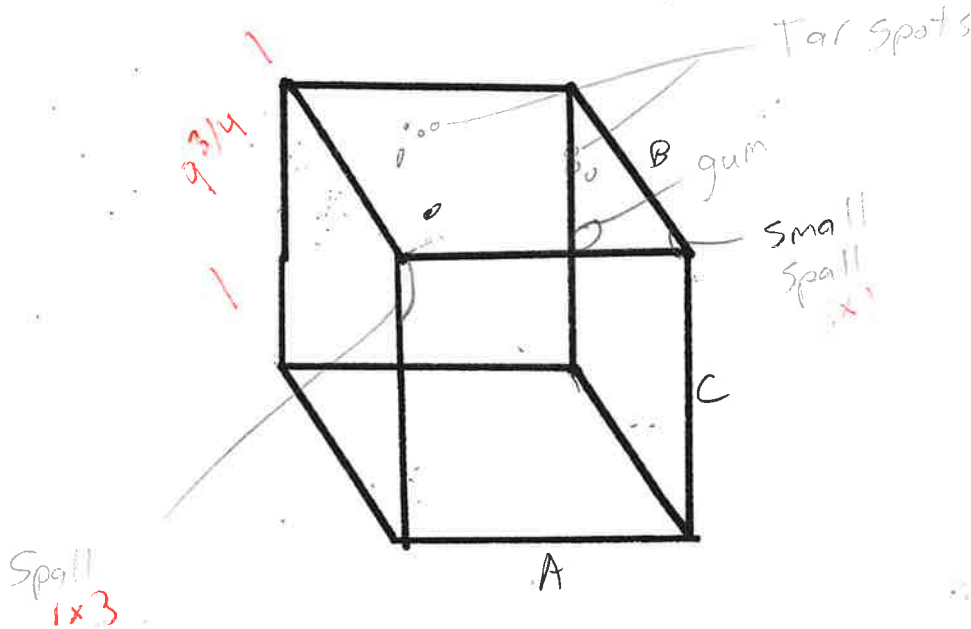
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.
WIEW

Location	Length (in)	
Overall Dimensions		
A	73 7/8	
B	65 3/8	
C	55 1/8	73 1/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall top left corner of riser (Previously Patched)
gum spot right front of tread
Small tar spots across tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 4 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Willie
(Print)

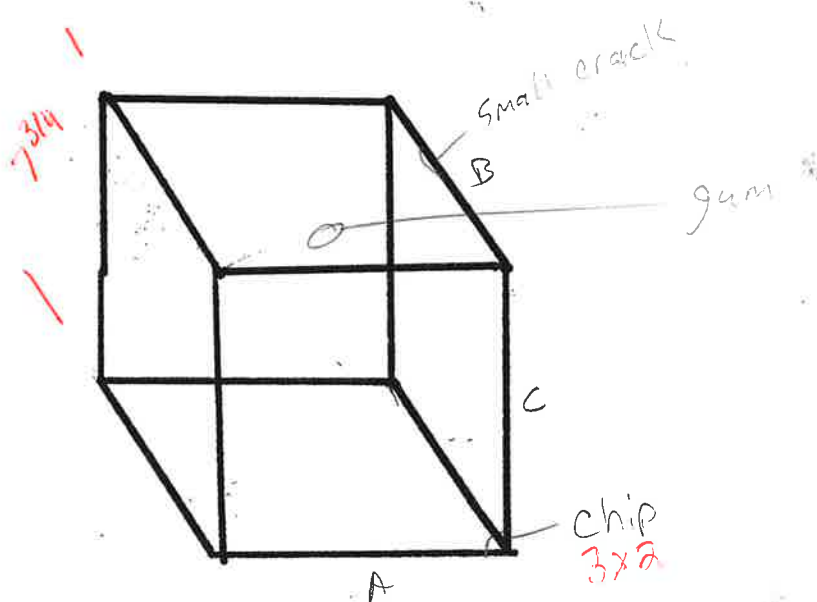
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WIGE

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	73 ⁷ / ₈	
C	55 ⁸ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small crack right joint of tread
gum spot near center of tread
Chip on bottom right corner of riser
* New spall face of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Chilla
(Print)

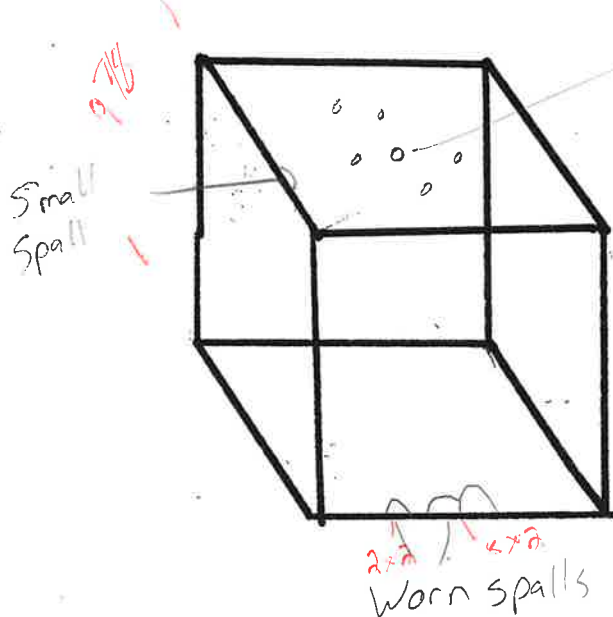
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WIGW

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	74 1/16	
C	55/8 5	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

3 Worn spalls on left side of riser bed joint
Small spall left joint of tread
Small tar spots across tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 22 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

(Print)

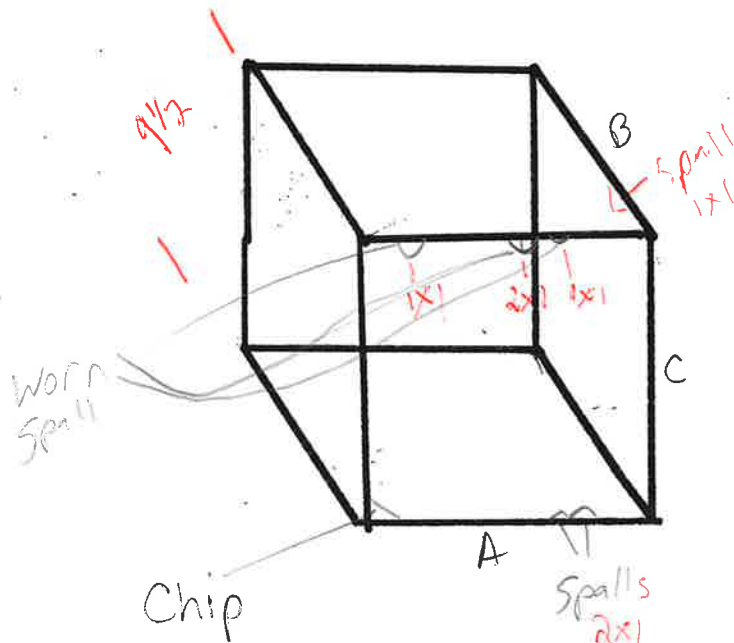
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WJE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	74	
C	5 ⁵ / ₈ *	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

3 worn spalls along nosing
Chip bottom left corner of riser
2 spalls right side of riser bed joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 7 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Chiller
(Print)

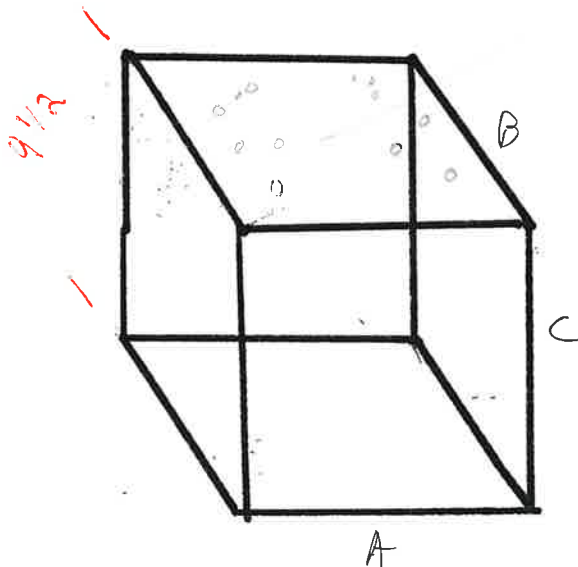
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.C1
Storage Drawing _____

SKETCH



Stone ID No.

615W

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	73 1/4	
C	55 1/8 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small tar spots across tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-23-22

WDP/GSD Representative:

Chill
(Print)

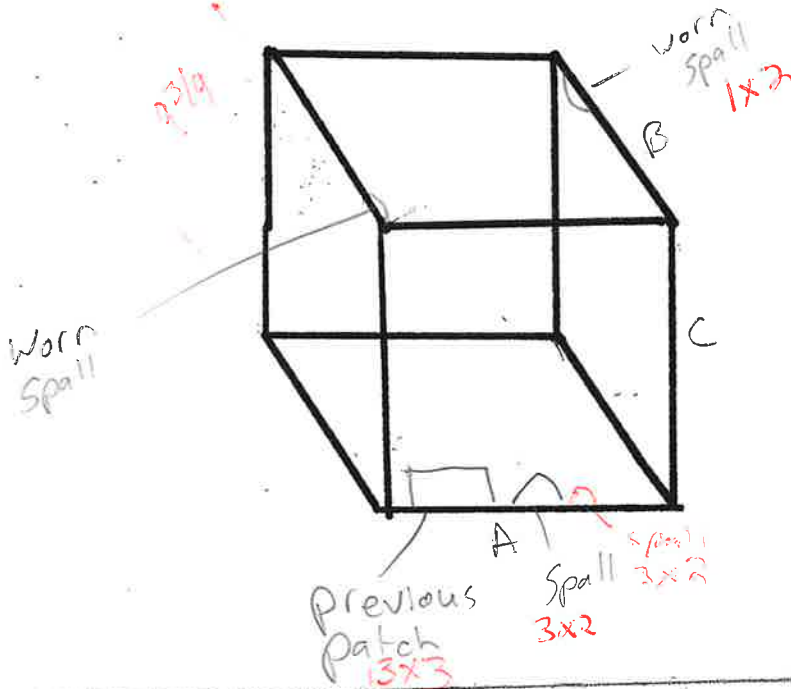
[Signature]
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WILE

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	74	
C	5 ³ / ₄ 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn Spall front of left joint of tread
Worn Spall back of right joint of tread
Spall near center of bed joint of riser
Previous patch left side of riser bed joint/side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? **Yes** / No (if yes, shade the area on the sketch)
- Volume of Patching: **53** [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? **Yes** / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Willie
(Print)

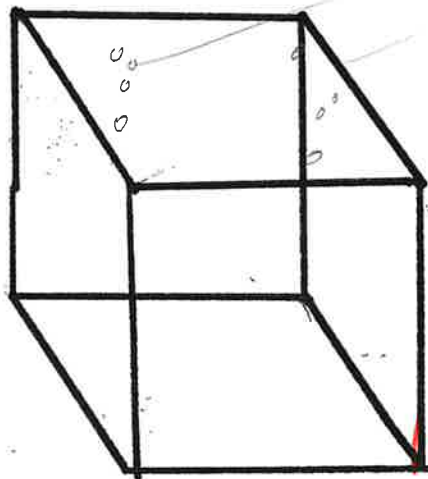
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WILW

Location	Length (in)	
Overall Dimensions		
A	66	3/16
B	73	5/16
C	5 5/8	5
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small tar spots across tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Willa
(Print)

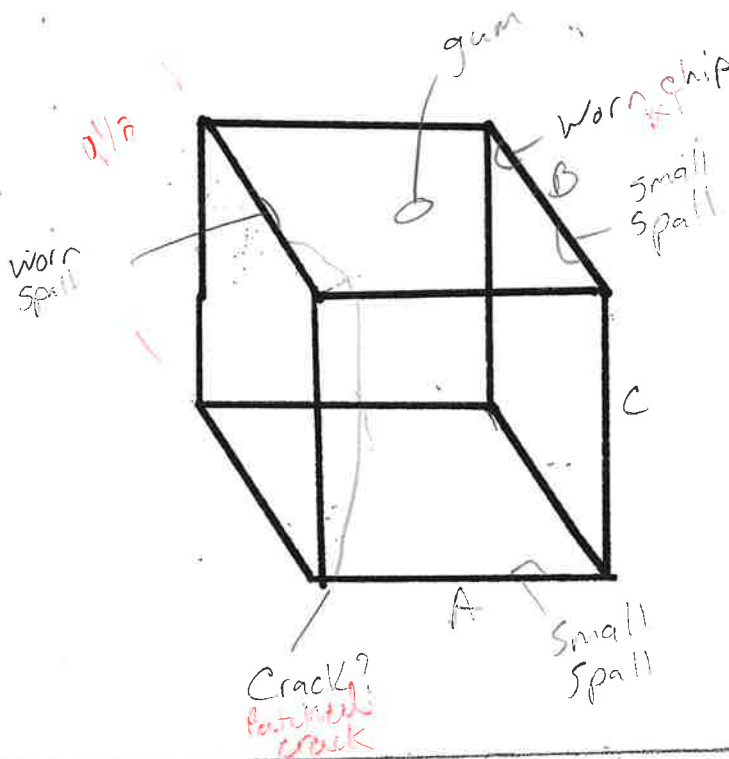
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Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WINE

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	73 ⁷ / ₈	
C	5 ³ / ₄ 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spall left joint of tread
gum spot rear center of tread
Worn chip back of right joint of tread
Small spall front of right joint of tread
Small spall right side of bed joint of riser
Crack or ridge left front corner of tread down across riser face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? **Yes** / No (if yes, shade the area on the sketch)

• Volume of Patching: 1 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? **Yes** / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Willu
(Print)

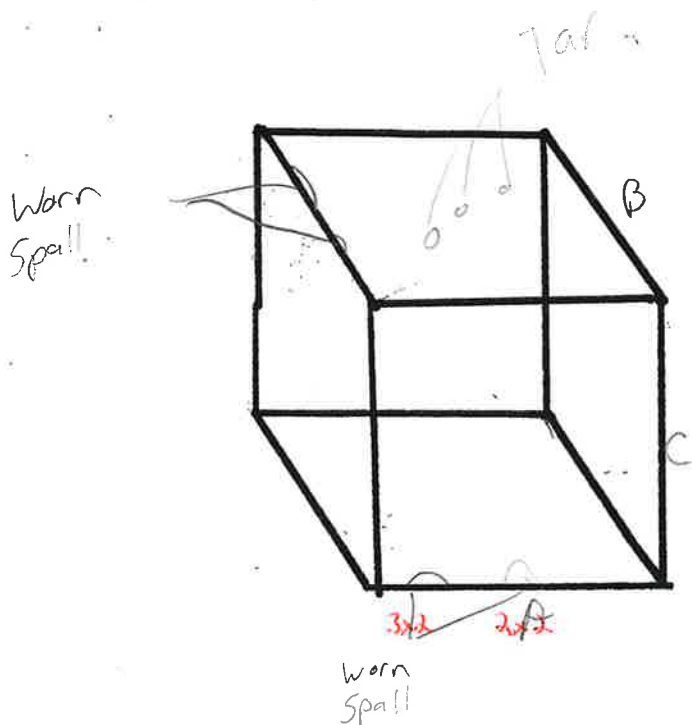
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

WINW

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	73 ⁵ / ₁₆	
C	5 ⁵ / ₈ 73 ¹ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 Worn Spalls on bed joint of riser
2 Worn Spalls left joint of tread
Tar Spots across tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Chika
(Print)

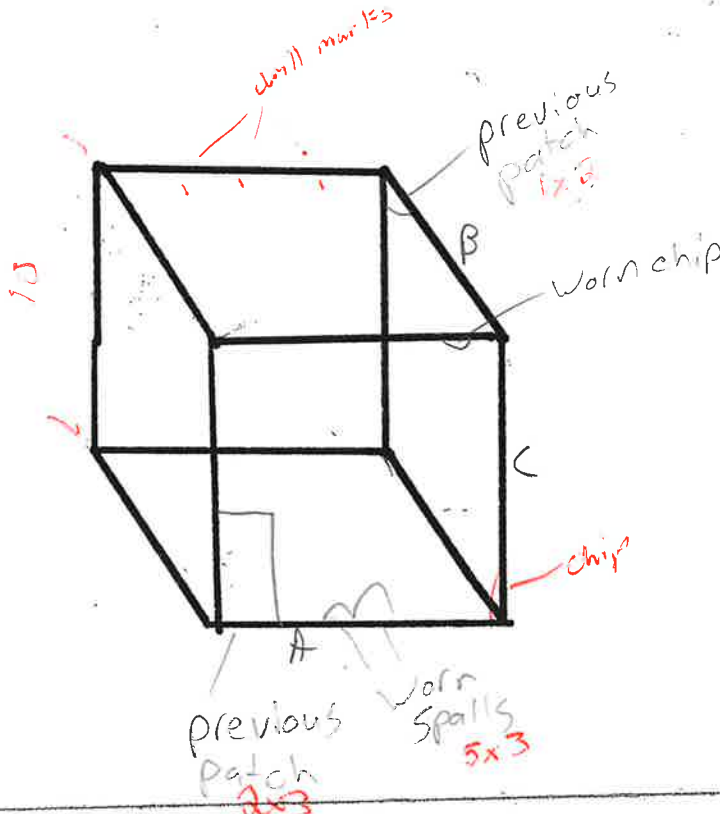
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.01
Storage Drawing _____

SKETCH



Stone ID No.

61Q

Location	Length (in)	
Overall Dimensions		
A	78 ⁷ / ₈	
B	73 ⁷ / ₈	
C	5 ¹ / ₂ 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patch back right corner of tread
Worn chip on right side of nosing
2 Worn spalls near center of bed joint of riser
Previous patch bottom left corner of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 23 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

Cliff
(Print)

(Signed)

Date: 9-20-22

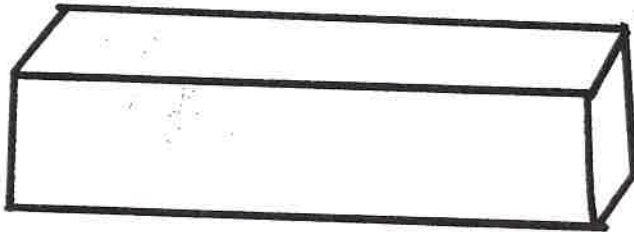
Limestone Upper Flight Treads

Rows 71 – 88

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/R/2

SKETCH



Stone ID No.

71BE

Location	Length (in)	
Overall Dimensions:		
A	29 ⁹ / ₁₆	
B	16 ¹ / ₈	
C	5 ⁹ / ₁₆ 7 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson [Signature] Date: 8-22-22
(Print) (Signed)

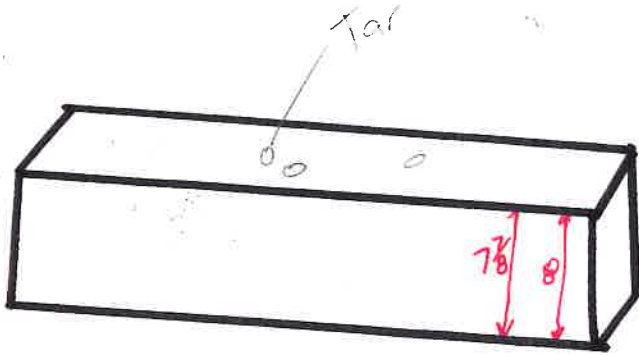
WDP/GSD Representative: Christopher Lehman [Signature] Date: 9/18/22
(Print) (Signed)

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/S/5

SKETCH



Stone ID No.
71BW

Location	Length (in)	
Overall Dimensions:		
A	30 1/2	
B	17	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Tar spots on tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P. Dillen
(Print)

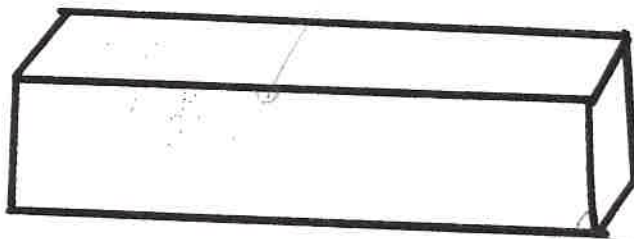
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/R/3

SKETCH



Stone ID No.

71DE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn chip on rising left corner
Chip bottom right corner of side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative: P Dillan
(Print)

(Signed)

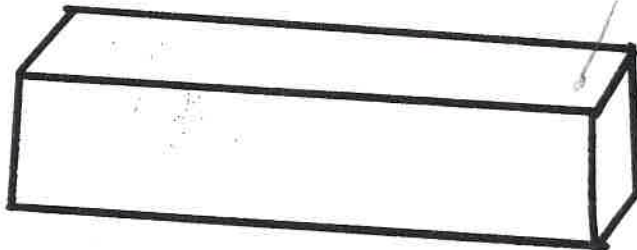
Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/S/A

SKETCH



Stone ID No.

71DW

Location	Length (in)	
Overall Dimensions:		
A	66	
B	17 ³ / ₈	
C	55 ⁵ / ₈ 7 ³ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small tar spot right side of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

CHRISTOPHER C. HUNTER
(Print)

(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing CIRV4

SKETCH



Stone ID No.
71FE

Location	Length (in)	
Overall Dimensions:		
A	66 5/16	
B	17 7/16	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large worn chip left side of nosing/riser face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

Chilla
(Print)

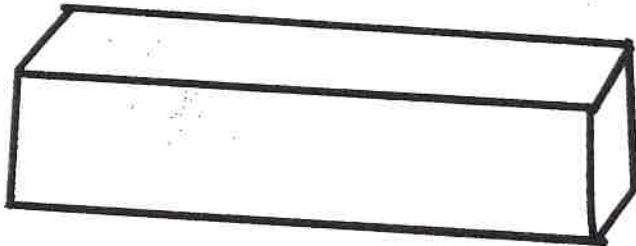
(Signed)

Date: 9-8-22

Stone Survey Sheet

Location Drawing D4102
Storage Drawing C/S/3

SKETCH



Stone ID No.

71FW

Location	Length (in)	
Overall Dimensions:		
A	6.7	
B	17 1/4	
C	5 1/2	7 3/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

(Print)

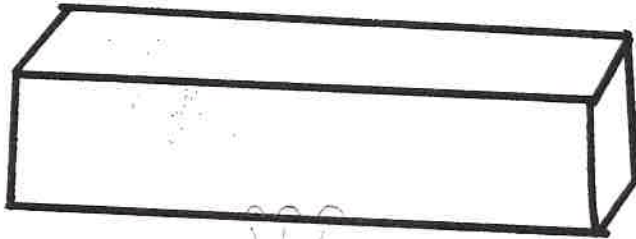
(Signed)

Date: 9-8-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/R/5

SKETCH



worn spalls

Stone ID No.
71HE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/2	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

3 worn spalls near center of bed joint of pier

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

(Print)

Christopher Lehman

(Signed)

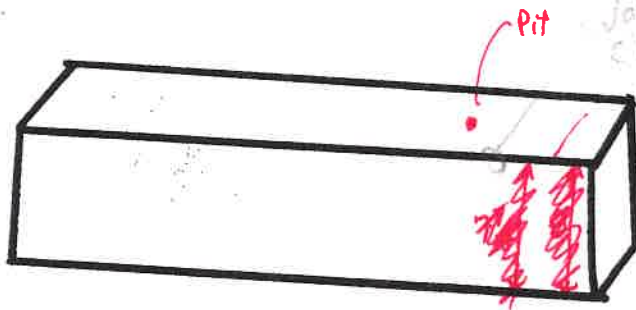
Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/S/2

SKETCH



Stone ID No.

71HW

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 7/16	
C	55 5/8	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chip right side of nosing

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillon
(Print)

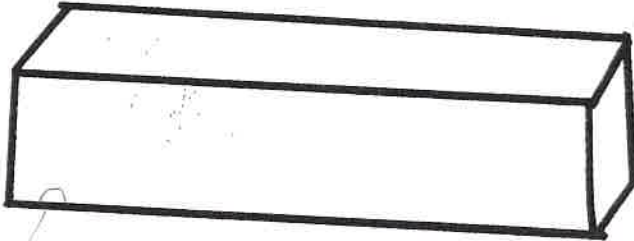
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/R/G

SKETCH



Small
worn
spot

Stone ID No.
7IKE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 ³ / ₈	
C	5 ⁷ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small worn spot left side of riser bed joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Diller
(Print)

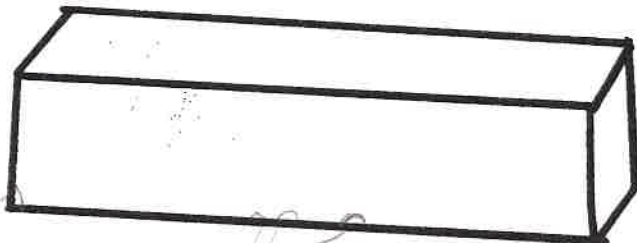
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/S/1 (No of aisle)

SKETCH



Stone ID No.

71KW

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/2	
C	5 1/2 7 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn Spall Bottom Left corner of riser
3 worn spalls near center of Bed joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 2-22-22

WDP/GSD Representative:

CHRISTOPHER Johnson
(Print)

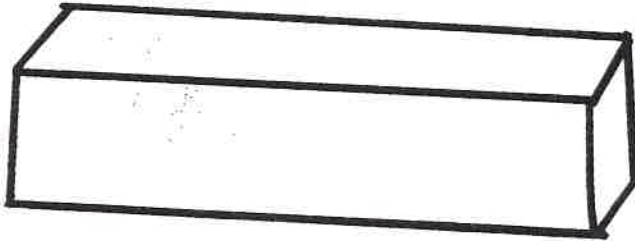
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/R7

SKETCH



Stone ID No.
7IME

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/2	
C	5 3/8	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Checklist**
- ☒ Photographed prior to removal
 - ☒ Add building reference points for existing location
 - ☐ Existing conditions prevent removal per rigging plan
 - ☒ Photographed after removal
 - ☒ Documentation of areas to be patched
 - ☒ Labeled with Stone ID
 - ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes No

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-22-22

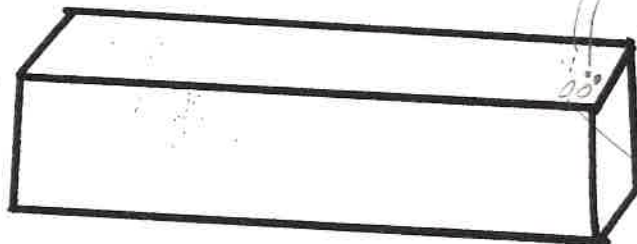
WDP/GSD Representative: [Signature] (Print) [Signature] (Signed) Date: 9-8-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/B/10 (No end, flipped 90°)

SKETCH



Stone ID No.

71MW

Location	Length (in)	
Overall Dimensions:		
A	67 1/8	
B	16 5/8	
C	5 1/2	7 1/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spot of gum right front corner of tread
Pitting right front of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

CVillon
(Print)

(Signed)

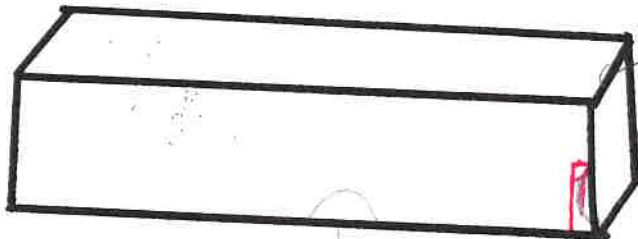
Date: 9-8-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/R/8

SKETCH



Small
Spall

1"x3"

Large
Worn
Spall

Worn
Spall

Stone ID No.
71PE

Location	Length (in)	
Overall Dimensions:		
A	72 3/4	
B	17 1/2	
C	5 3/8 7 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large worn spall right - of corner of riser
Worn spall right head joint of riser
Small spall right joint of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

Christopher Lihman
(Print)

(Signed)

Date: 9/8/22

Stone Survey Sheet

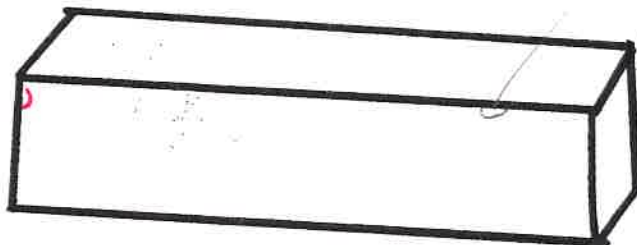
Location Drawing 04.02
Storage Drawing C/B/9

SKETCH

Stone ID No.

71PW

chip



No Lip

Location	Length (in)	
Overall Dimensions:		
A	72 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Overall Weathering
Worn chip right side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Jensen
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

(Print)

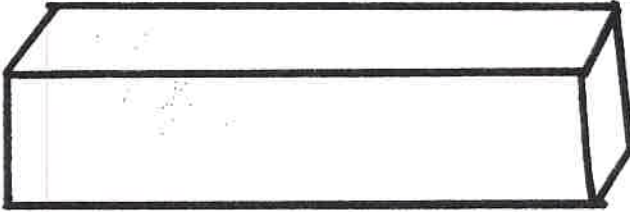
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/P/7

SKETCH



Stone ID No.

72CE

Location	Length (in)	
Overall Dimensions:		
A	60	
B	17 1/4	
C	5 3/8	7 3/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDF/GSD Representative:

Christopher Lehman
(Print)

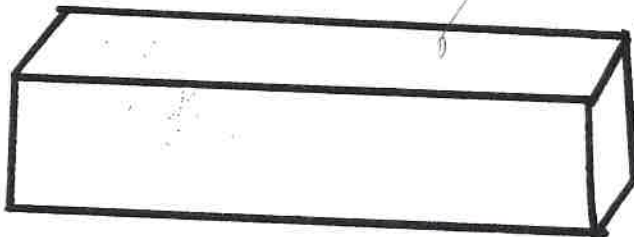
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/R/1 (No. of aisle)

SKETCH



Stone ID No.
72CW

Location	Length (in)	
Overall Dimensions:		
A	58	
B	17 7/16	
C	5 5/16	7 1/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Tar spot on tread back right of center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

CVilla
(Print)

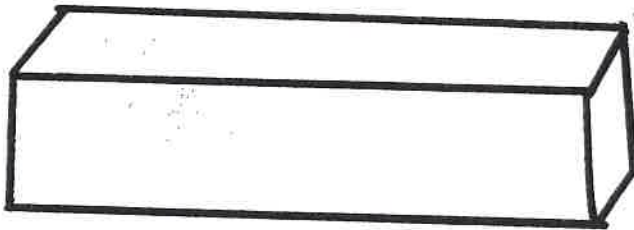
(Signed)

Date: 9-8-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing CP/6

SKETCH



Stone ID No.

72EE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 3/8	
C	5 1/2 7 11/16	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative: CV/111

(Print)

(Signed)

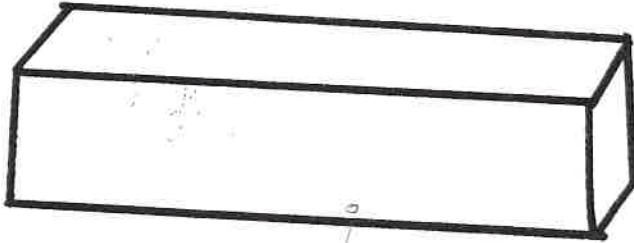
Date: 9-8-22

Stone Survey Sheet

Location Drawing 14.02

Storage Drawing C/A/9 (No. end)

SKETCH



Stone ID No.

72EW

Location	Length (in)	
Overall Dimensions:		
A	65 1/2	
B	17 3/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small pit bottom right of center of face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 5-22-22

WDP/GSD Representative:

P Diller

(Print)

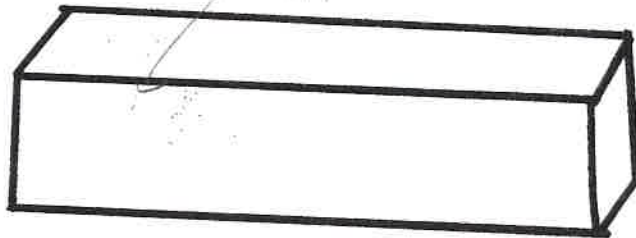
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/P/9 (No end)

SKETCH



Stone ID No.
72GE

Location	Length (in)	
Overall Dimensions:		
A	66 ³ / ₄	
B	17 ⁵ / ₈	
C	5 ¹ / ₂	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small hole chip on ragged left side

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDF/GSD Representative: Christopher Lehman
(Print)

(Signed)

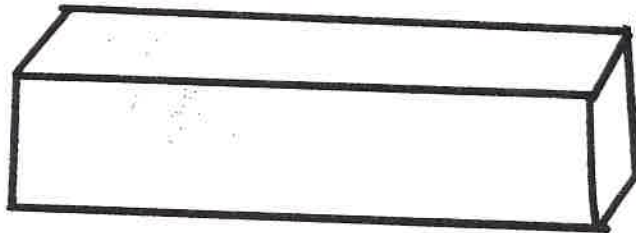
Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/A/B

SKETCH



Stone ID No.

72GW

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/2	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Mild / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

Christopher Lehman
(Print)

(Signed)

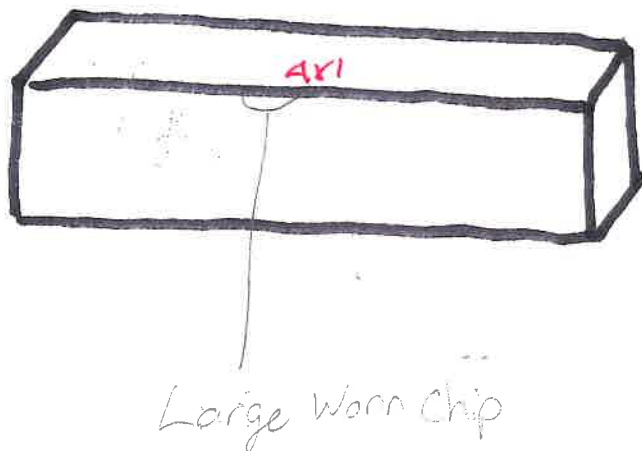
Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/Q/11 (No side of aisle)

SKETCH



Stone ID No.

72 JE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/8	
C	5 9/16	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large worn chip face of riser/nosing left of center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

*Stone cleaning recommended: Minor / Moderate to heavy

*Type of repair

*Pitching required? Yes / No (if yes, shade the area on the sketch)

*Volume of Patching: 9 [in^3]

To be documented on ground after handling and storage

*Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillon
(Print)

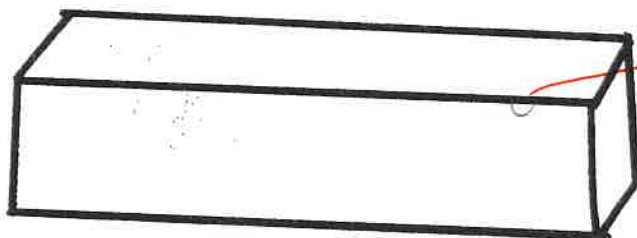
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Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/Q/7

SKETCH



Small worn chip

Stone ID No.

72JW

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/4	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn chip right side of rising

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

Chiller
(Print)

(Signed)

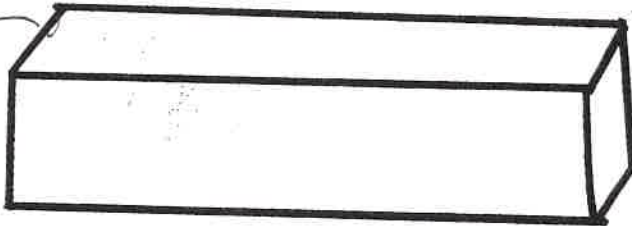
Date: 9-8-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/Q/2

SKETCH

Small
Spall



Stone ID No.
72LE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall left joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

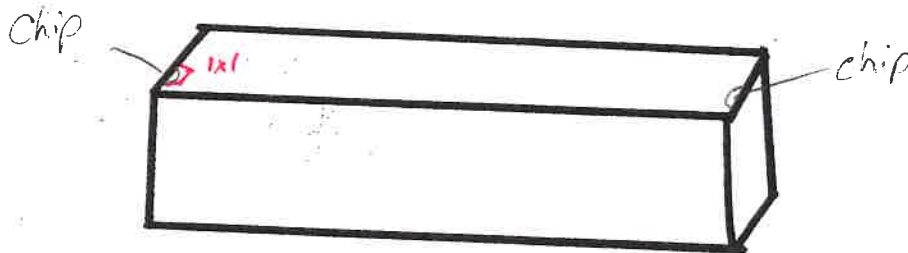
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-22-22

WDP/GSD Representative: Christopher Libman (Print) [Signature] (Signed) Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/Q/16

SKETCH



Stone ID No.
72LW

Location	Length (in)	
Overall Dimensions		
A	67 1/4	
B	17 1/4	
C	53 1/8	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chip left joint of tread near front
chip right joint of tread near front

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-22-22

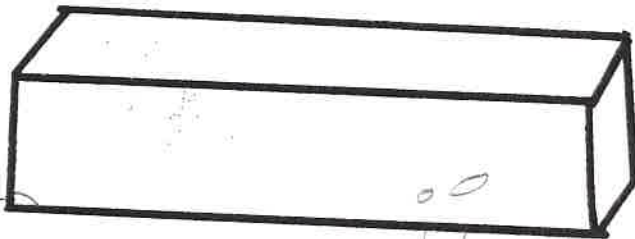
WDP/GSD Representative: P Dillon (Print) [Signature] (Signed) Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.02

Storage Drawing C/Q/13

SKETCH



Small
chip

Pits

Stone ID No.

72NE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/4	
C	5 1/2 7 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small chip on bottom left corner of riser
Weathering/beginning to pit on face of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

PDillon
(Print)

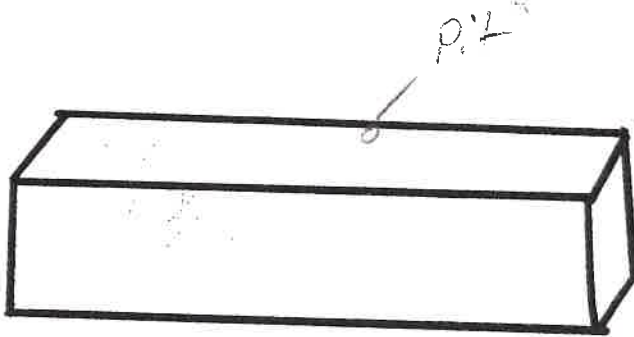
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C12/15

SKETCH



Stone ID No.
72NW

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	17 ¹ / ₂	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Pit on tread back side near center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-22-22

WBP/GSD Representative:

Christopher Lehman
(Print)

[Signature]
(Signed)

Date: 9/19/22

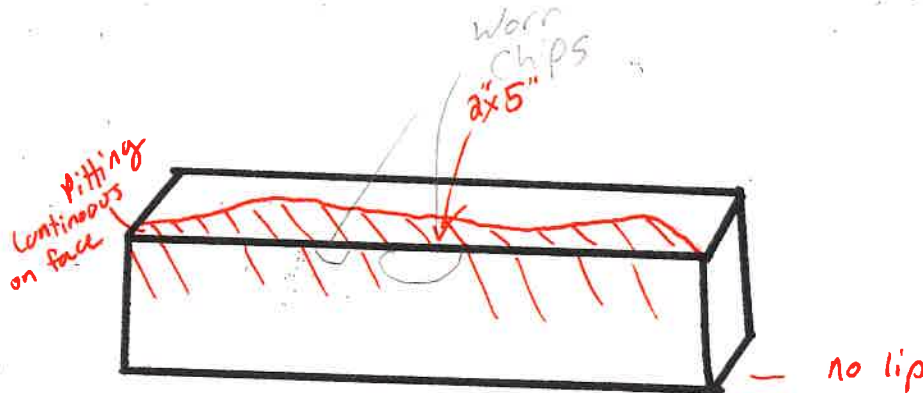
Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/Q/4

SKETCH

Stone ID No.

72Q



Location	Length (in)	
Overall Dimensions		
A	78 $\frac{3}{4}$	
B	17 $\frac{3}{8}$	
C	5 $\frac{3}{8}$	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Weather on tread / beginning to pit
large worn chips left side of riser face at rising

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

[Signature] Date: 8-22-22
(Signed)

WDP/GSD Representative:

Avilla
(Print)

[Signature] Date: 9-8-22
(Signed)

Stone Survey Sheet

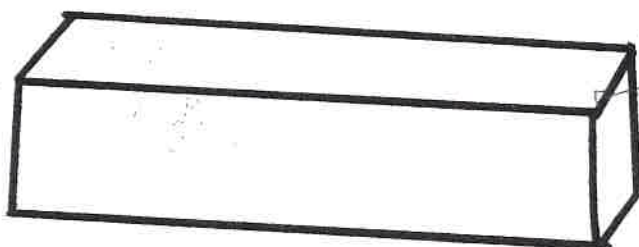
Location Drawing D4.02

Storage Drawing G/O/2

SKETCH

Stone ID No.

73BE



Location	Length (in)	
Overall Dimensions:		
A	33 1/8	
B	17 1/4	
C	5 1/2	8 1/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip right joint of tread near floor

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-22-22

WDP/GSD Representative:

PDillon
(Print)

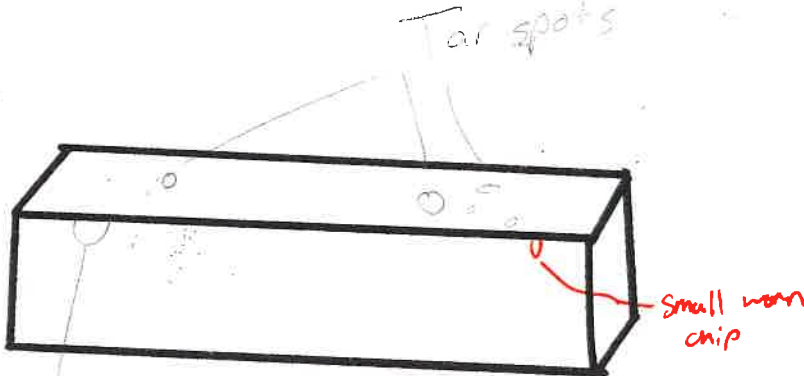
[Signature]
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing 0402
Storage Drawing C/P/O

SKETCH



Stone ID No.
73BW

Location	Length (in)	
Overall Dimensions:		
A	33	
B	7 3/8	
C	5 1/2 7 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

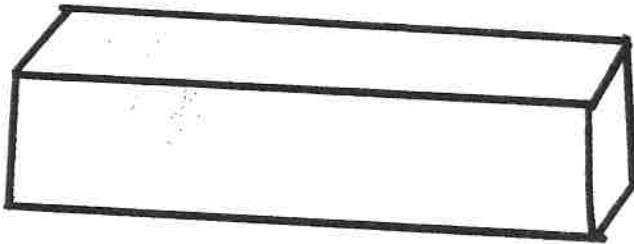
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-22-22

WDP/GSD Representative: CM/lln (Print) [Signature] (Signed) Date: 9-8-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/10/3

SKETCH



Stone ID No.
73DE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ¹ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative: P Dillon
(Print)

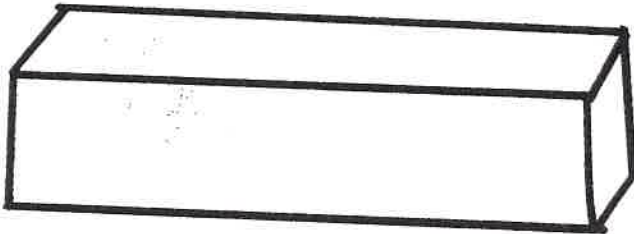
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/P/5

SKETCH



Stone ID No.
73DW

Location	Length (in)	
Overall Dimensions:		
A	65 7/8	
B	17 3/8	
C	5 1/2 7 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

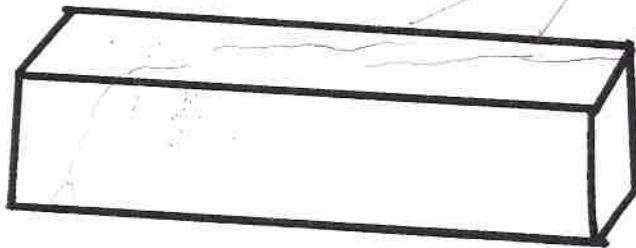
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-22-22

WDP/GSD Representative: Christopher Lehman (Print) [Signature] (Signed) Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/O/4

SKETCH



Stone ID No.
73FE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Cracks running length ways across tread
Crack continuing down left side of riser face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Crack pr 74"
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillen
(Print)

(Signed)

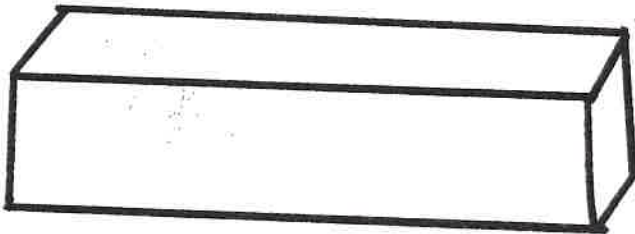
Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/P/4

SKETCH



Stone ID No.

73FW

Location	Length (in)	
Overall Dimensions:		
A	67 1/16	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Pitching required? Yes No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-22-22

WDP/GSD Representative:

Orilla
(Print)

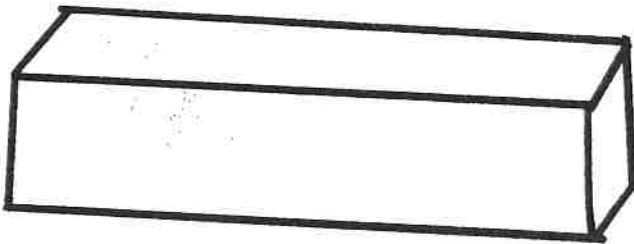
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(Signed)

Date: 9-8-22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/0/5

SKETCH



Stone ID No.
73HE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/2	
C	5 1/2	73/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

PDillon
(Print)

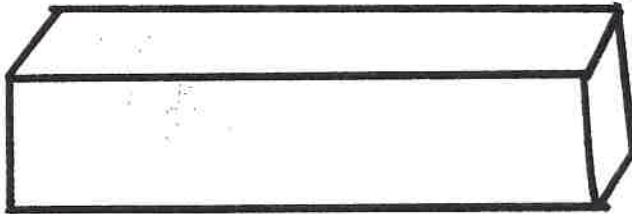
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Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/P/3

SKETCH



Stone ID No.
73HW

Location	Length (in)	
Overall Dimensions:		
A	67 1/8	
B	17 3/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-22-22

WDP/GSD Representative:

Christopher Lehman
(Print)

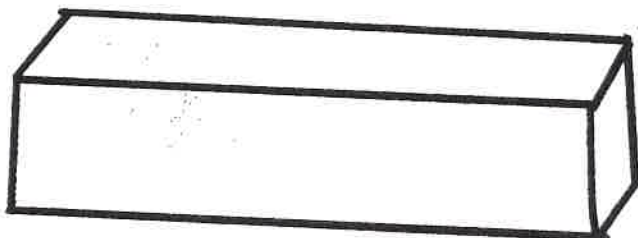
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(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C10/6

SKETCH



Stone ID No.

73KE

Location	Length (in)	
Overall Dimensions:		
A	67 ¹ / ₈	
B	17 ¹ / ₄	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillen
(Print)

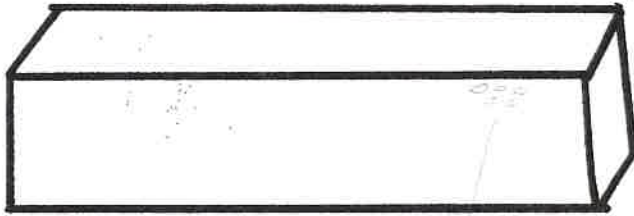
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Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/P/2

SKETCH



Pitting

Stone ID No.

73KW

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/4	
C	5 1/2	8 1/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Right front face of riser near rising beginning to pit

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

Cullen
(Print)

(Signed)

Date: 9-8-22

Stone Survey Sheet

Location Drawing 0402
Storage Drawing C10/7

SKETCH



Small worn chip

Stone ID No.

73ME

Location	Length (in)	
Overall Dimensions:		
A	67	
B	7 3/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small worn chip on rising near center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 2-22-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing U.02

Storage Drawing C/P/1 (N side of aisle)

SKETCH



Stone ID No.
73MW

Location	Length (in):	
Overall Dimensions:		
A	67 1/8	
B	17 7/8	
C	5 1/2	734
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall weathering / Pitting
Heavy Pitting on face of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair Crack rpr 52"

• Pitching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Diller
(Print)

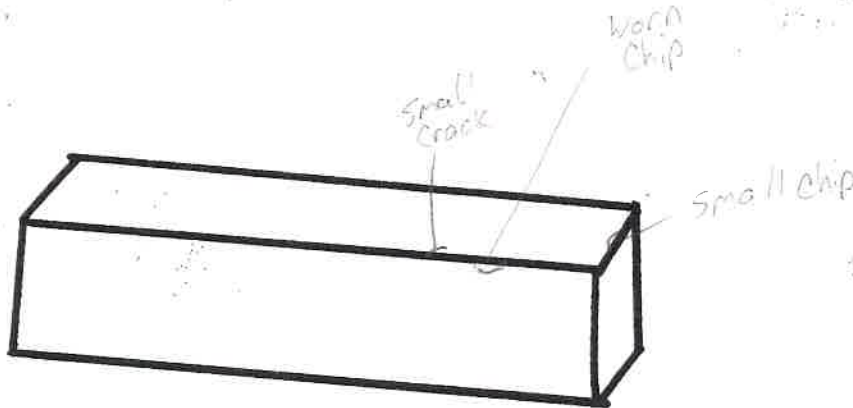
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Date: 9/8/22

Stone Survey Sheet

Location Drawing D4 02
Storage Drawing C/018

SKETCH



Stone ID No
73PE

Location	Length (in)	
Overall Dimensions:		
A	72 1/2	
B	17 1/4	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small crack on rising right side
Small chip right joint of tread
Worn chip on right side of riser / nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P. D. N. N.
(Print)

(Signed)

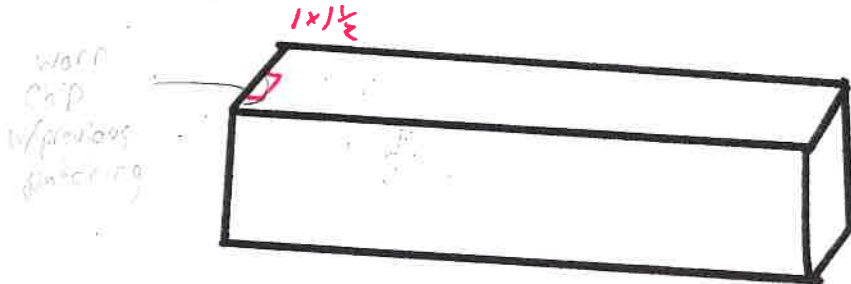
Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C10/9 (N. end)

SKETCH

Stone ID No.
73 PW



Location	Length (in)	
Overall Dimensions:		
A	7 3/8	
B	17 3/8	
C	5 3/8	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn chip with previous patching left joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillon
(Print)

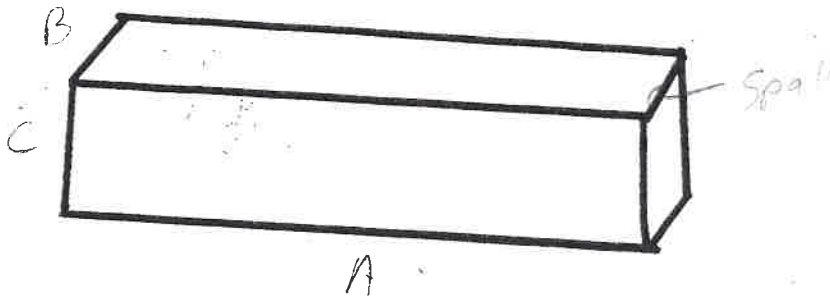
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No
74CE

Location	Length (in)	
Overall Dimensions:		
A	66 ⁵ / ₈	
B	17 ¹ / ₂	
C	5 ⁵ / ₈	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Spall right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

- Checklist
- ☒ Photographed prior to removal
 - ☒ Add building reference points for existing location
 - ☐ Existing conditions prevent removal per rigging plan
 - ☐ Photographed after removal
 - ☒ Documentation of areas to be patched
 - ☒ Labeled with Stone ID
 - ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative: Willie
(Print)

(Signed)

Date: 9-9-22

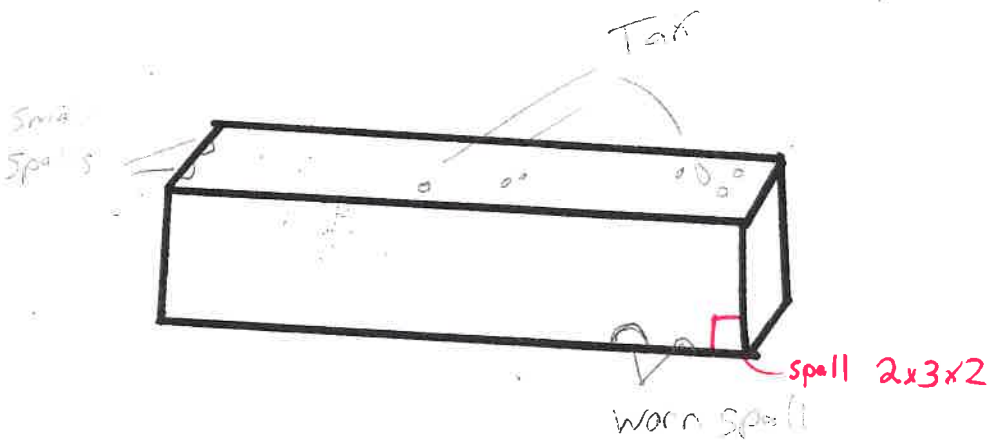
Stone Survey Sheet

Location Drawing 74.02

Storage Drawing C10/01 (N. side of aisle)

SKETCH

Stone ID No.
74CW



Location	Length (in)	
Overall Dimensions:		
A	64 3/4	
B	17 3/8	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 small spalls left joint of tread
2 worn spalls right side bed joint of riser
Tar spots on Tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 12 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillon
(Print)

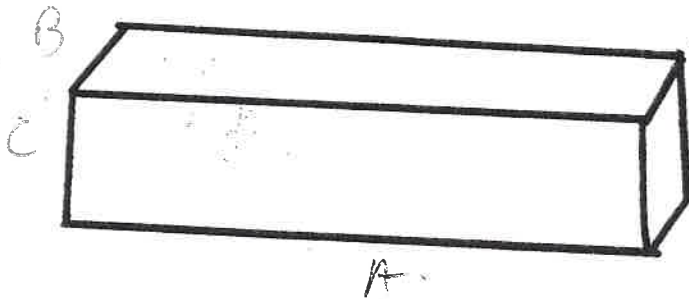
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/M18

SKETCH



Stone ID No
74EE

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 5/16	
C	5 3/4 7 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 9 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-18-22

WDP/GSD Representative: Crilla (Print) [Signature] (Signed) Date: 9-9-22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/N/9 (No end)

SKETCH



Stone ID No.

74EW

Location	Length (in)	
Overall Dimensions:		
A	66 1/8	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillon
(Print)

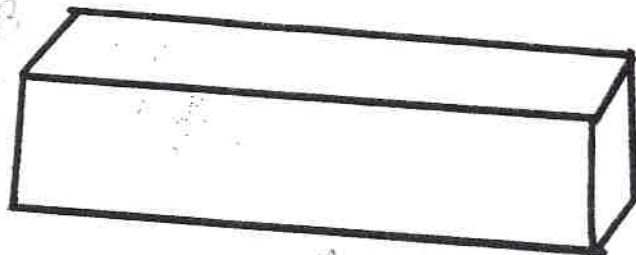
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(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/M/10

SKETCH



Stone ID No.
74GE

Location	Length (in)	
Overall Dimensions:		
A	67 1/8	
B	17 3/8	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair _____
- *Pitching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

Christopher Lehman
(Print)

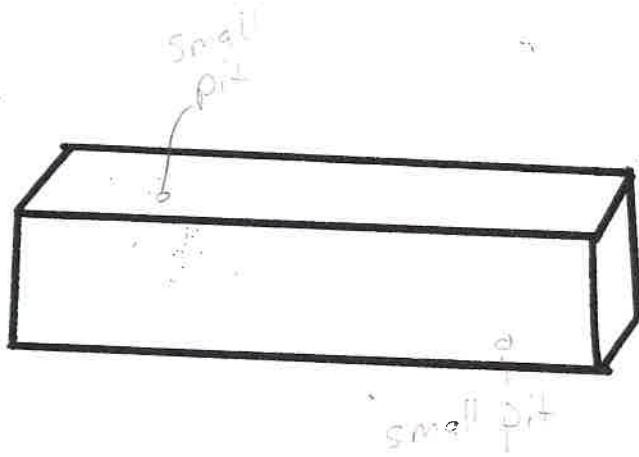
(Signed)

Date: 9/9/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/N/8

SKETCH



Stone ID No.
74GW

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	17 ³ / ₄	
C	5 ⁵ / ₈	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small pit left side of tread
small pit bottom right of riser

- Checklist**
- ☒ Photographed prior to removal
 - ☐ Add building reference points for existing location
 - ☐ Existing conditions prevent removal per rigging plan
 - ☐ Photographed after removal
 - ☒ Documentation of areas to be patched
 - ☐ Labeled with Stone ID
 - ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-22-22

WDP/GSD Representative: P Dillon (Print) [Signature] (Signed) Date: 8/8/22

Stone Survey Sheet

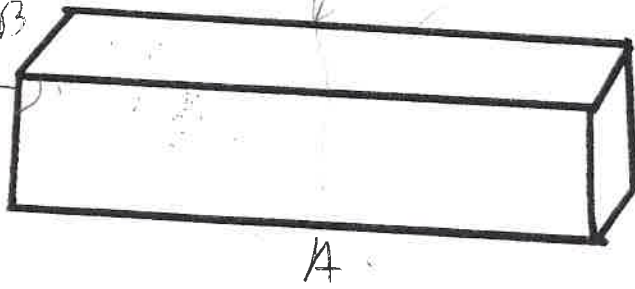
Location Drawing D4.02

Storage Drawing _____

SKETCH

Stone ID No

74JE



Location	Length (in)	
Overall Dimensions		
A	67	
B	17 3/4	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spall top left corner of riser
Ridged or Crack in center of stone tread and riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

(Print)

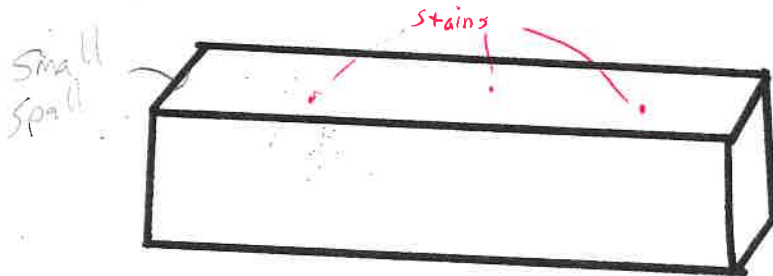
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Date: 9-9-22

Stone Survey Sheet

Location Drawing D402
Storage Drawing C/N/7

SKETCH



Stone ID No.
74JW

Location	Length (in)	
Overall Dimensions		
A	67 1/8	
B	17 1/4	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

small spall left joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

SW
(Signed)

Date: 8-22-22

WDP/GSD Representative: P Dillon
(Print)

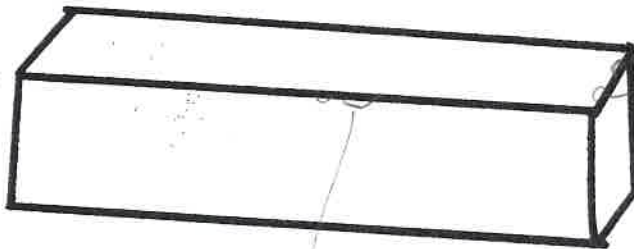
P Dillon
(Signed)

Date: 8/18/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/N/2

SKETCH



Stone ID No.
74LE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	16 $\frac{3}{8}$	
C	5 $\frac{1}{2}$	7 $\frac{1}{2}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 Worn chips on nosing
Worn chip on right joint of tread
small previous patch back of right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative: P Dillon
(Print)

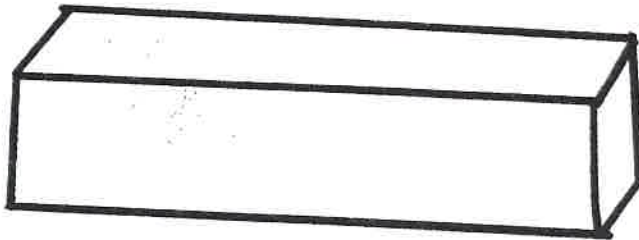
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/N/G

SKETCH



Stone ID No.

74LW

Location	Length (in)	
Overall Dimensions:		
A	67 1/4	
B	17 1/2	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative: P. Dillon
(Print)

(Signed)

Date: 9/8/22

Stone Survey Sheet

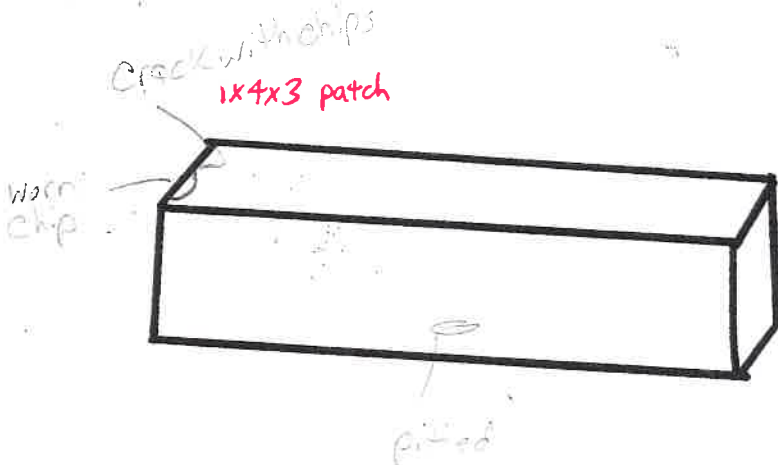
Location Drawing D4.02

Storage Drawing C/N/3

SKETCH

Stone ID No.
74NE

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 3/4	
C	5 1/2	75/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		



Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large worn chip left joint - of head front
Crack with chips back of left joint of head
Pit on face of Giger near center

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 12 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillon
(Print)

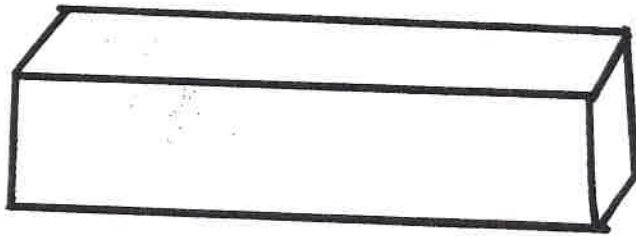
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Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/N/5

SKETCH



Stone ID No.
74NW

Location	Length (in)	
Overall Dimensions:		
A	67 1/2	
B	17 1/4	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson [Signature] Date: 8-22-22
(Print) (Signed)

WDP/GSD Representative: P Dillon [Signature] Date: 9/8/22
(Print) (Signed)

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/N/4

SKETCH



Stone ID No.
74Q

Location	Length (in)	
Overall Dimensions		
A	79 ¹ / ₈	
B	17 ¹ / ₄	
C	5 ¹ / ₂	73 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn chip on nosing left of center
Chip on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-22-22

WDP/GSD Representative:

P Dillon
(Print)

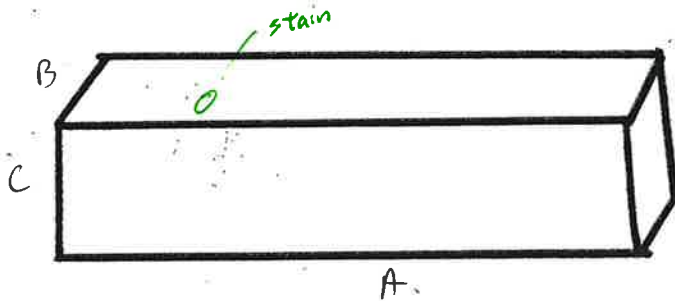
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/L/5

SKETCH



Stone ID No.
75BE

Location	Length (in)	
Overall Dimensions		
A	32 15/16	
B	17 1/8	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

P Dillon
(Print)

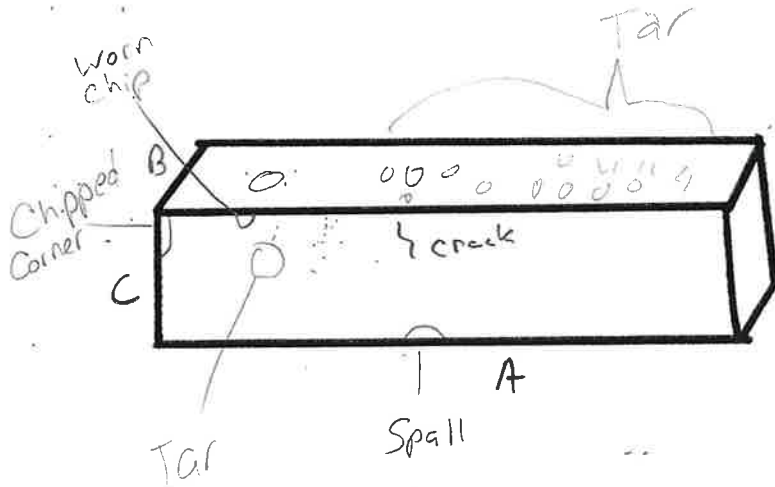
(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing CRM/7

SKETCH



Stone ID No.
75BW

Location	Length (in)	
Overall Dimensions		
A	32 1/4	
B	17 1/2	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chipped corner top left of riser
Spall on bed joint of riser near center
Large spots of tar across tread
Spot of tar left side of face of riser
Worn chip on left side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Clen
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-18-22

WDP/GSD Representative:

Rex Coker
(Print)

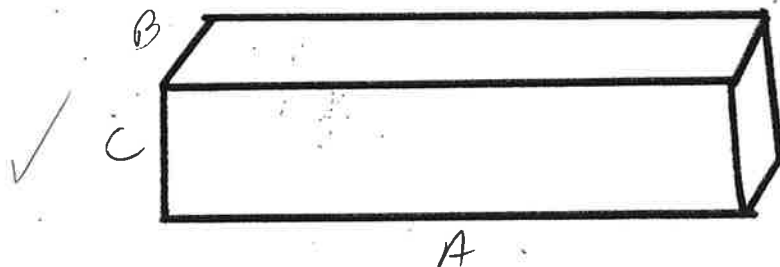
[Signature]
(Signed)

Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/L/G

SKETCH



Stone ID No.
75 DE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₄	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative: P Dillen
(Print)

(Print)

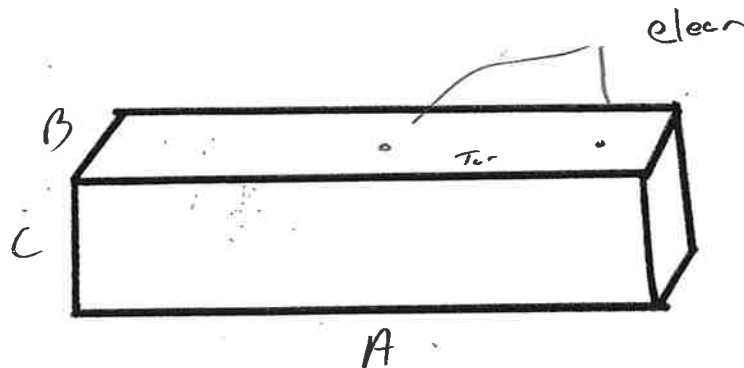
(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/M/G

SKETCH



Stone ID No.
75DW

Location	Length (in)	
Overall Dimensions		
A	66	
B	17 3/8	
C	55 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small tar spots on top of stone

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Clean
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

Rex Cyphers
(Print)

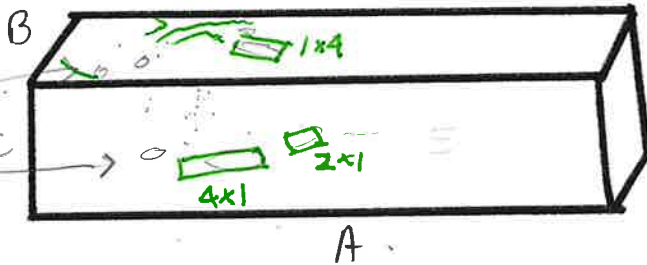
(Signed)

Date: 8-20-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/L/7

SKETCH



Stone ID No.
75FE

Location	Length (in)	
Overall Dimensions		
A	66 5/16	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Pitting along the left side of tread
Pitting across entire face of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

P Dillan
(Print)

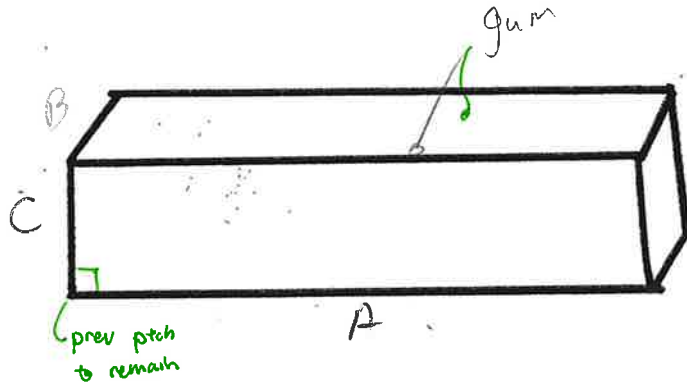
(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/M/S

SKETCH



Stone ID No.
75FW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

tar/Gum spot on nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-18-22

WDP/GSD Representative:

P Dillon
(Print)

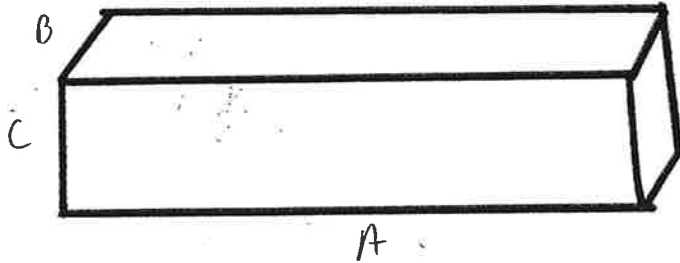
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(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/L/8

SKETCH



Stone ID No.
75HE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative: P Dillon
(Print)

(Print)

(Signed)

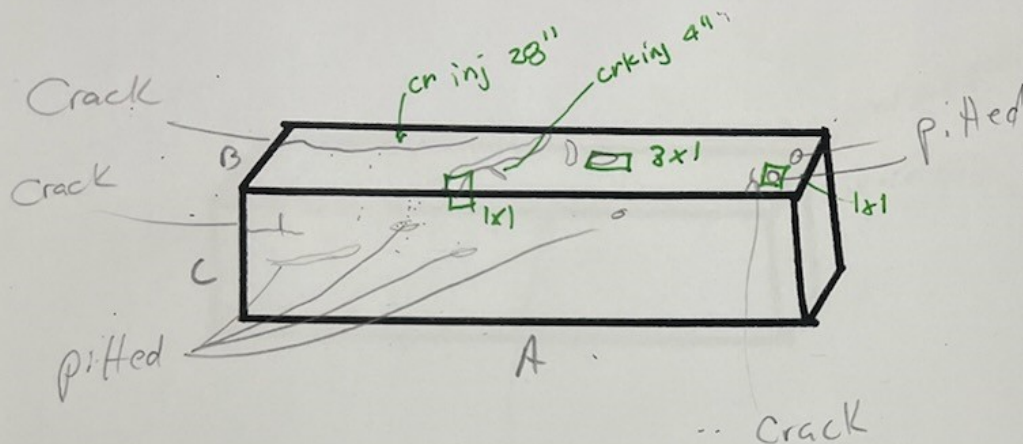
Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/M/4

SKETCH



Stone ID No.

75HW

Location	Length (in)	
Overall Dimensions:		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Pitting starting across face of riser
Crack in top left face of riser
Pitting on Tread
Crack on tread left side
Small crack front right tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair crk ing. 32"
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-18-22

WBP/GSD Representative:

P Diller
(Print)

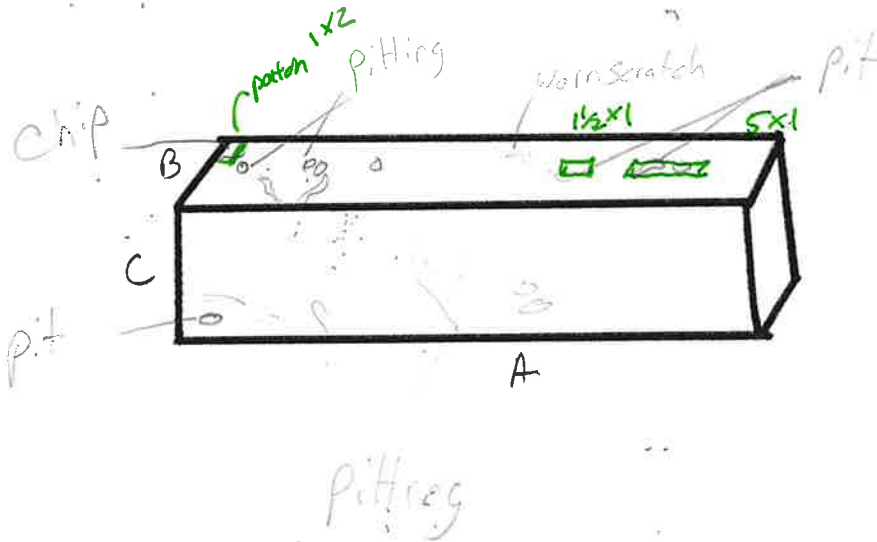
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(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/L/9

SKETCH



Stone ID No.
75KE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 3/4	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip on back left corner of tread
Pitting across entire face of riser and tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 9 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

P Dillon
(Print)

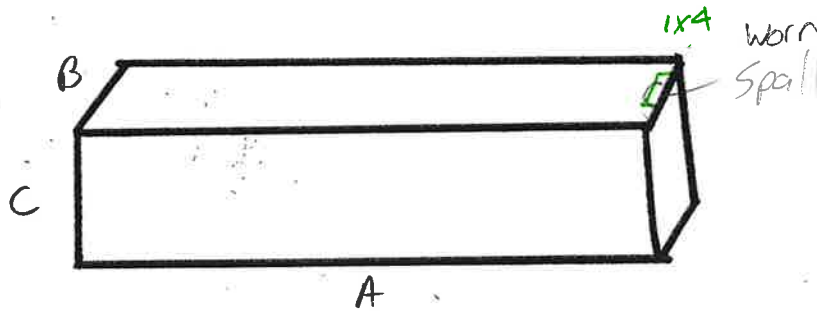
(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/M/3

SKETCH



Stone ID No.
75KW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large worn spall on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch) Yes
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

P Dillon
(Print)

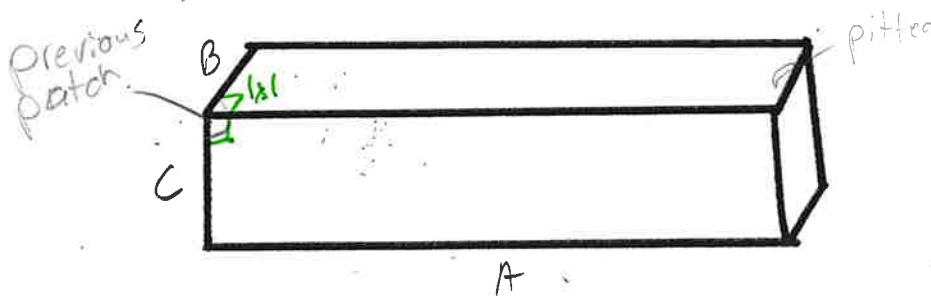
(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/L/10

SKETCH



Stone ID No.
75ME

Location	Length (in)	
Overall Dimensions		
A	6 1/2	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous Patch top left corner of riser
Pitted area right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

P Dillen
(Print)

(Signed)

Date: 8/23/22

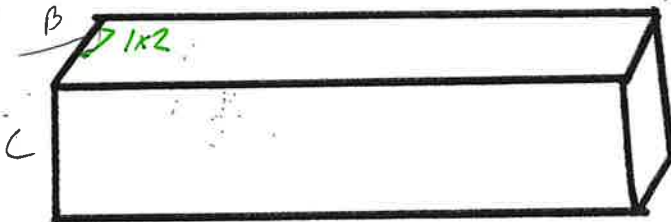
Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/M/2 (No of aisle)

SKETCH

Worn area
pitted



A

Stone ID No.
75MW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn/pitted spot left joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

✓ P Dillon
(Print)

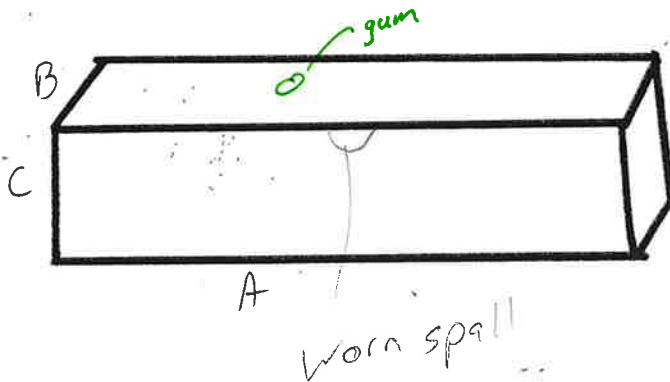
(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/L/11 (No end)

SKETCH



Stone ID No.
75 PE

Location	Length (in)	
Overall Dimensions		
A	73	
B	17 1/2	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spall on nosing near center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

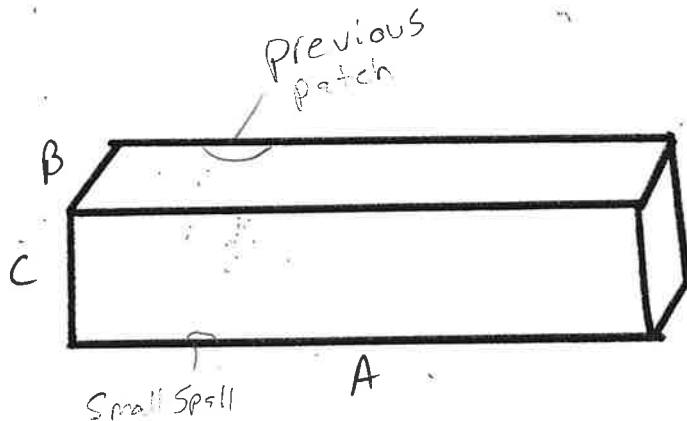
Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/M/I (so of aisle)

SKETCH



Stone ID No.

75PW

Location	Length (in)	
Overall Dimensions		
A	72 ³ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patch back joint of tread left side
Spall left side bed joint of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

✓ P Dillen
(Print)

(Signed)

Date: 8/24/22

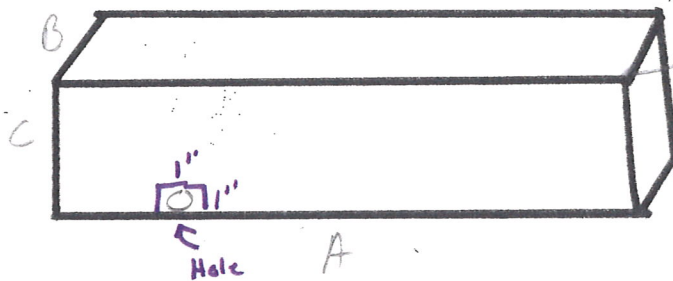
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row K - 3 South
Aisle

Stone ID No.

74CE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 1/4	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small gap front right corner of head

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

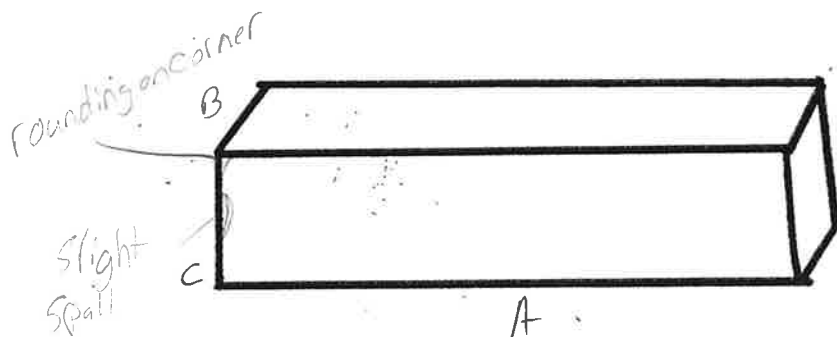
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Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Rows 6-4

SKETCH



Stone ID No.

76CW

Location	Length (in)	
Overall Dimensions		
A	65 1/8	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Rounding/wearing top left corner of riser
Slight spalling/rounding left head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair None
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

Rex Cyphus
(Print)

(Signed)

Date: 8-24-22

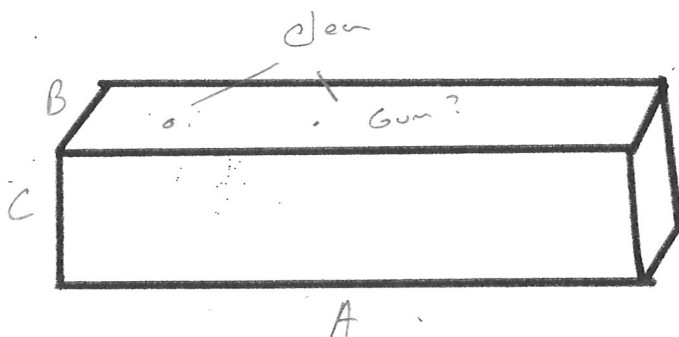
Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C. Row K - 4

North
N. 3/4

SKETCH



Stone ID No.

TWEE

Location	Length (in)	
Overall Dimensions		
A	66 ⁵ / ₁₆	
B	17 ¹ / ₄	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair Clean
- *Patching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

Date: 8-24-22

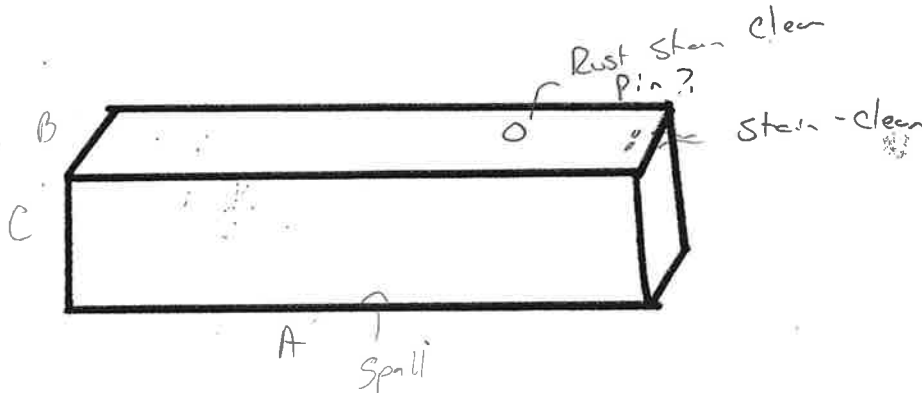
Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C - Row L - 3

North Side
A. sk

SKETCH



Stone ID No.

76EW

Location	Length (in)	
Overall Dimensions		
A	65 7/8	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on bed joint of riser near center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Clean
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

Rex Cyphers

(Print)

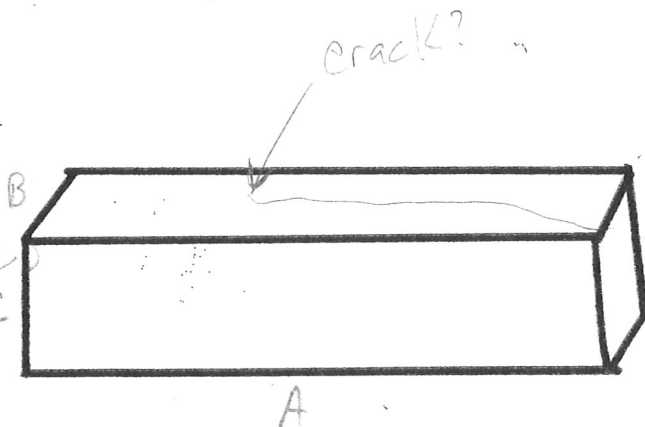
(Signed)

Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C Row 5

SKETCH



Stone ID No.
76GE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack on tread?

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair None
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rev Cyphus
(Print)

(Signed)

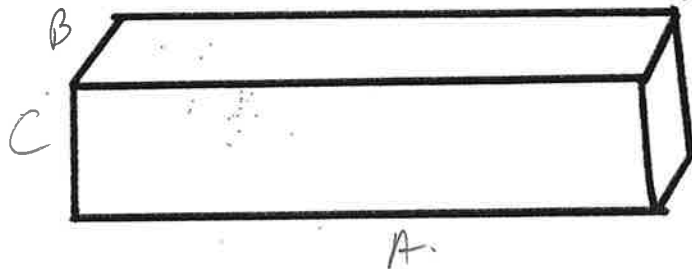
Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C. Row L - 2

South Side
A side

SKETCH



Stone ID No.

76GW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₄	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

Rev Cyphus
(Print)

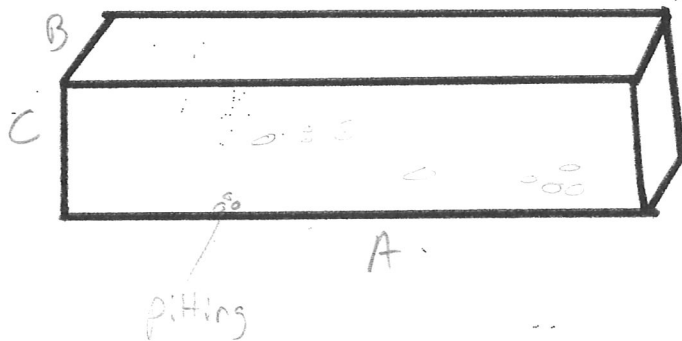
(Signed)

Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row K - 6

SKETCH



Stone ID No.

76JE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₈	
C	5 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

pitting on face of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair None
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

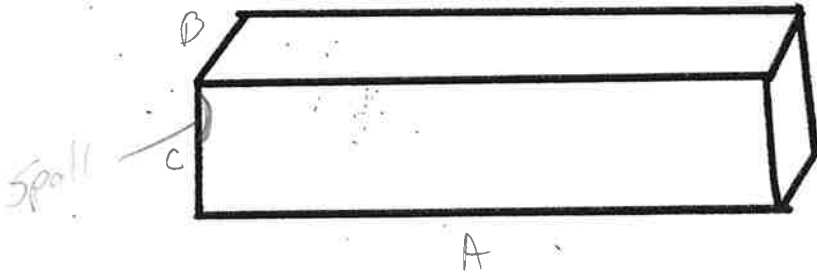
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(Signed)

Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row L - 1

SKETCH



Stone ID No.
76JW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on left head joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

Rex Gohrs
(Print)

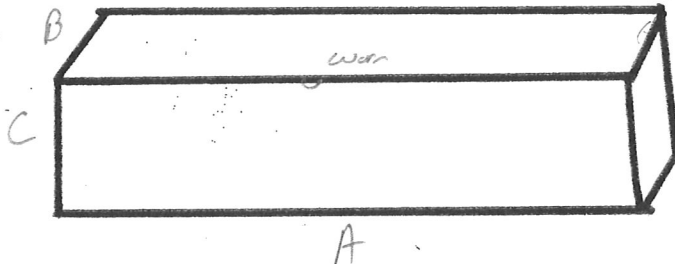
(Signed)

Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Rows K - 7

SKETCH



Stone ID No.

76LE

Location.	Length (in).	
Overall Dimensions		
A	66 1/16	
B	17 3/8	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair None
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Copiers
(Print)

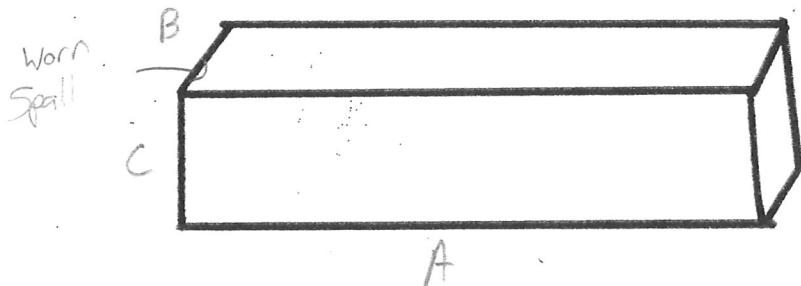
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Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row K - 11

SKETCH



Stone ID No.

764W

Location	Length (in)	
Overall Dimensions		
A	67	
B	17	
C	5 3/16	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn Spall on left joint of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rev Cyphus
(Print)

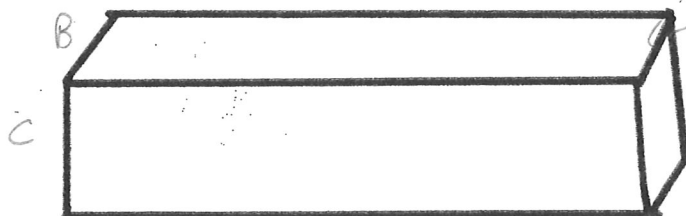
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(Signed)

Date: 8-21-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row K - 8

SKETCH



Stone ID No.

76NE

Location	Length (in)	
Overall Dimensions:		
A	66 3/16	
B	17 1/8	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall right joint of riser near back

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

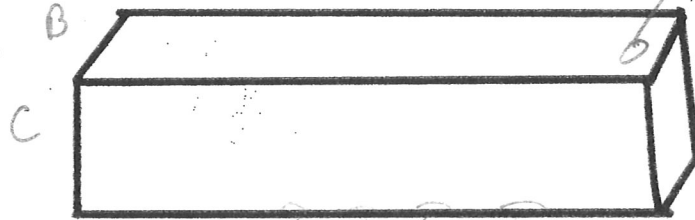
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Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Dec. C - Row K - 10

SKETCH



Stone ID No.

76NW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Gum spot right side of tread
Spalling along bed joint of riser

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

•Stone cleaning recommended: Minor / Moderate to heavy

•Type of repair Clean

•Patching required? Yes / No (if yes, shade the area on the sketch)

•Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

•Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

Date: 8-24-22

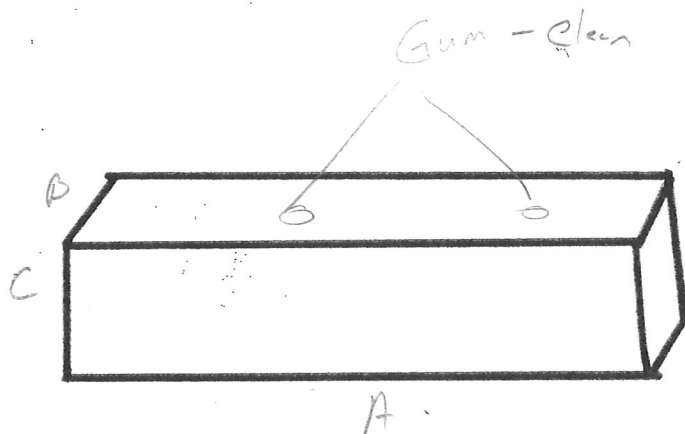
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row K - 9

Stone ID No.

76Q

SKETCH



Location	Length (in)	
Overall Dimensions		
A	78 15/16	
B	17 1/2	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall Weathering; Ridging on tread
2 Gum Spots on tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair Clean
- *Patching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphus
(Print)

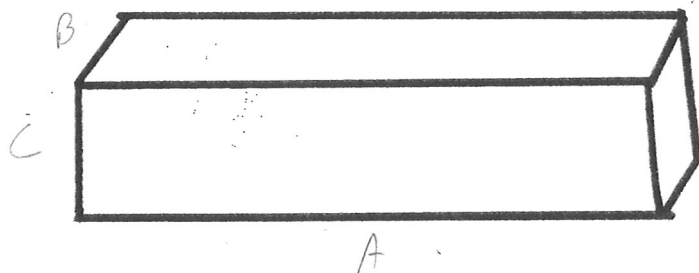
(Signed)

Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/I/12

SKETCH



Stone ID No.

77BE

Location	Length (in)	
Overall Dimensions		
A	32 3/4	
B	17 1/4	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

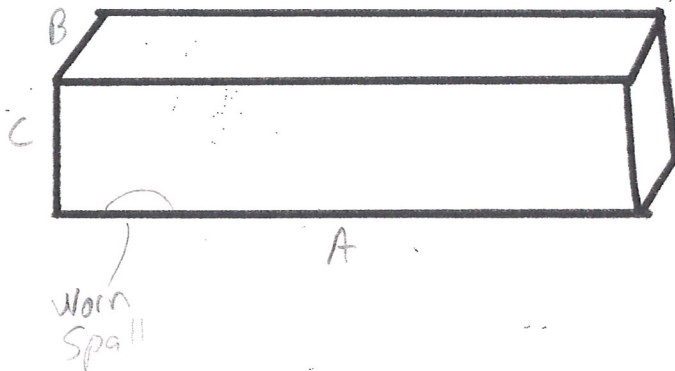
(Signed)

Date: _____

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/K/2

SKETCH



Stone ID No.
77BW

Location	Length (in)	
Overall Dimensions		
A	31 ³ / ₄	
B	17 ¹ / ₄	
C	5 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Worn Spall on Bed joint of riser left side
- Previous patching on cheek wall near corner of stone 77BW

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓ P Dillan
(Print)

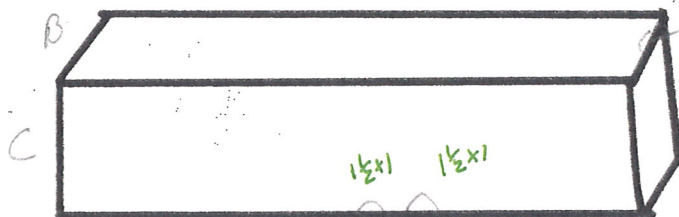
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(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/J/1

SKETCH



Stone ID No.

77DE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	16 ¹ / ₂	
C	5 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 spalls right of center on bed joint of riser
Small spall right joint of tread near back

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative: ✓

(Print)

(Signed)

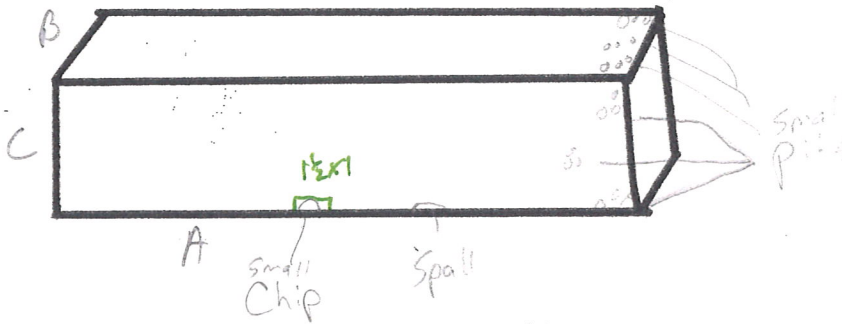
Date: _____

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/K/1

Stone ID No.
77DW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	65 1/2	
B	17 1/2	
C	5 7/16	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small chip on riser bed joint - left of center
Small spall on riser bed joint - right of center
Pitting along right edge of stone on riser + tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-17-22

WDP/GSD Representative:

P Dillen
(Print)

[Signature]
(Signed)

Date: 8/24/22

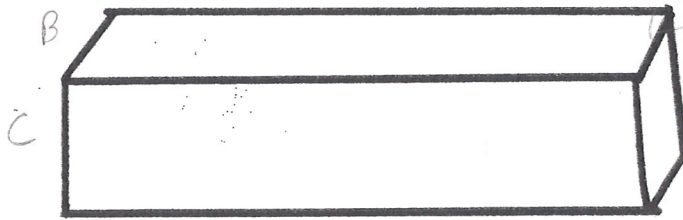
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/S/2

Stone ID No.

77FE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Spall back right corner of head

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

(Print)

(Signed)

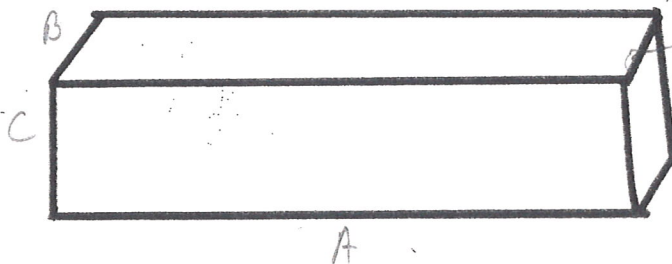
Date:

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/S/11 (No. end)

SKETCH



Stone ID No.

77FW

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/2	
C	5 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn spall right joint of head

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair _____
- *Patching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

P Dillen
(Print)

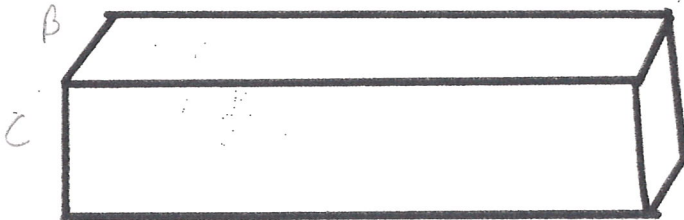
(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/J/3 (1 So of aisle)

SKETCH



Stone ID No.

77HE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

(Print)

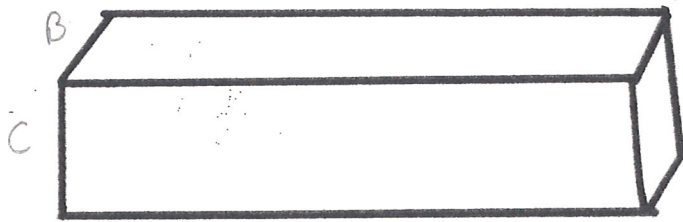
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/J/10

SKETCH



Stone ID No.

77HW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/2	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair _____
- *Pitching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative: P Dillon
(Print)

(Signed)

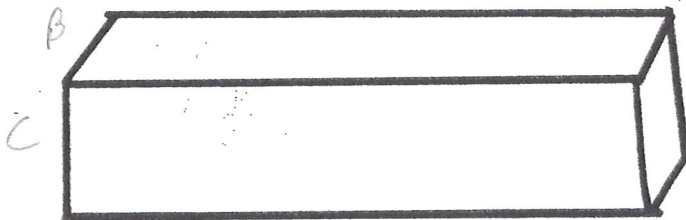
Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/J/4 (No of aisle)

SKETCH



Stone ID No.

77KE

Location	Length (in)	
Overall Dimensions		
A	67 1/16	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

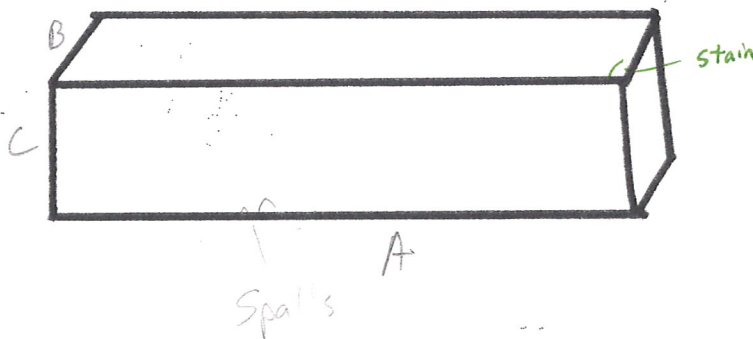
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/S/9

SKETCH



Stone ID No.

77KW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/4	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on bed joint of riser left side

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

P Dillen
(Print)

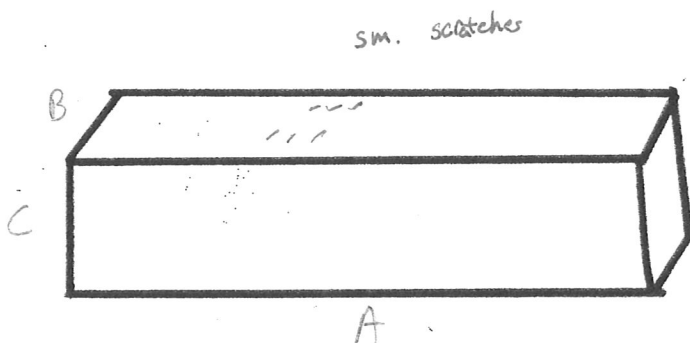
(Signed)

Date: 8/24/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/S/5

SKETCH



Stone ID No.

77ME

Location	Length (in)	
Overall Dimensions:		
A	67 1/6	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair _____
- *Patching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

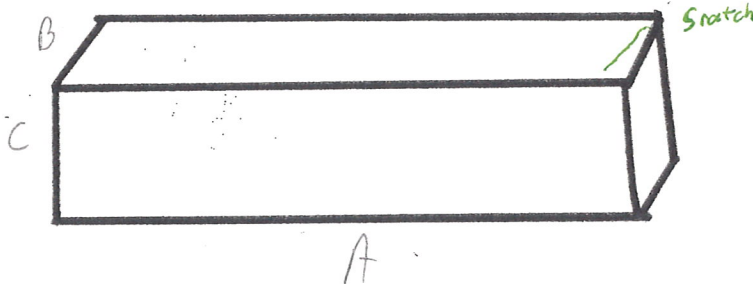
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/J/B

SKETCH



Stone ID No.
77MW

Location	Length (in)	
Overall Dimensions		
A	66 1/8	
B	17 3/8	
C	5 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative: ✓ P Dillen
(Print)

(Print)

(Signed)

Date: 8/24/22

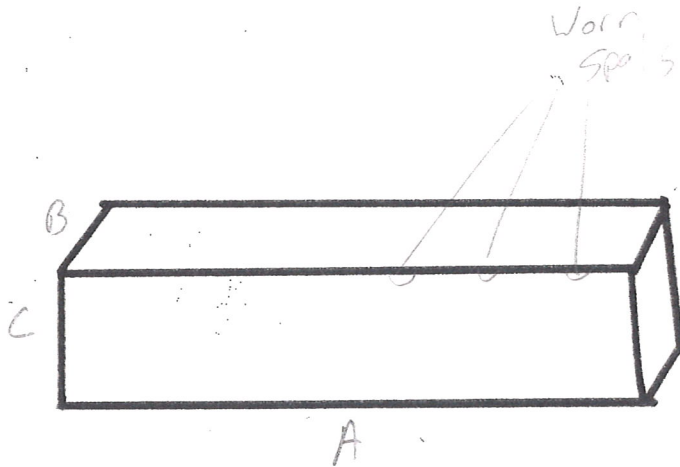
Stone Survey Sheet

Location Drawing 104.02
Storage Drawing C/S/6

Stone ID No.

77PE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	73	
B	17 ³ / ₈	
C	5 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

3 Worn spalls on right side of no sing

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

(Signed)

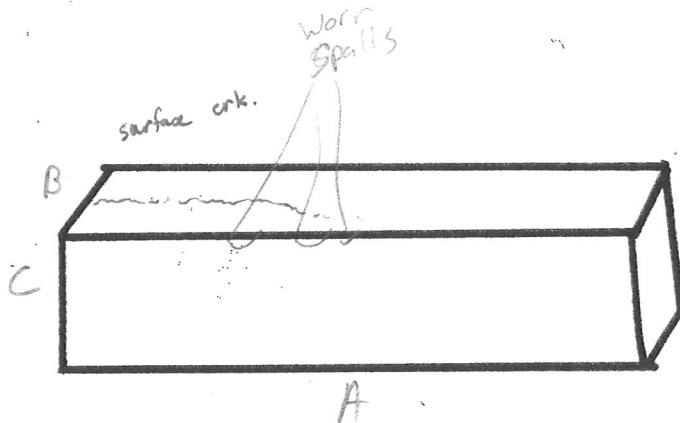
Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/J/7

Stone ID No.
77PW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	72 1/16	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

3 worn spalls on left side of nosing

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

(Signed)

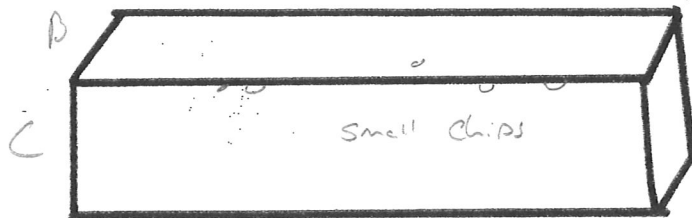
Date: _____

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row 14 - 11

Stone ID No.
78CE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 1/2	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair _____
- *Patching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

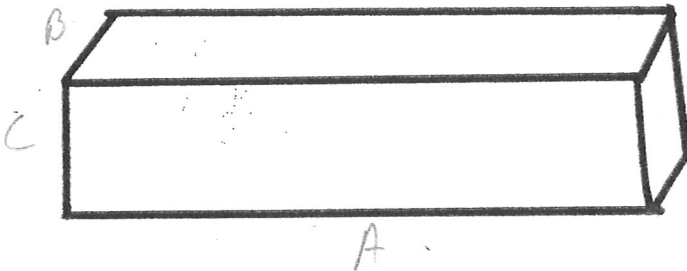
Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 11

Stone ID No.
78CW

SKETCH



Cracking
on
Check Wall

Location.	Length (in)	
Overall Dimensions		
A	65 7/8	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Cracking on Check Wall around both right joints

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

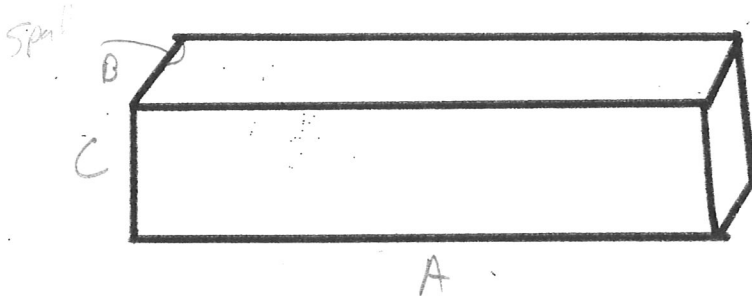
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Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row H - 12

SKETCH



Stone ID No.
78EE

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 3/8	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on back of left joint at trend

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rev Cyphers
(Print)

(Signed)

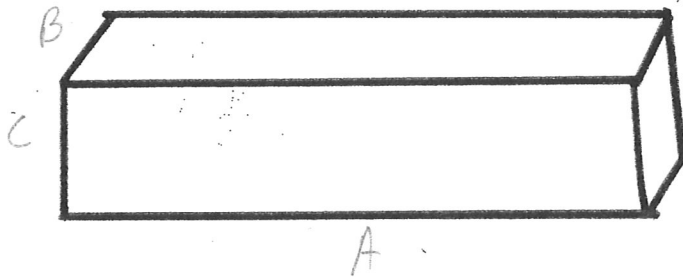
Date: 8-21-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 10

Stone ID No.
78EW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₈	
B	16 ³ / ₈	
C	5 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair _____
- *Patching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

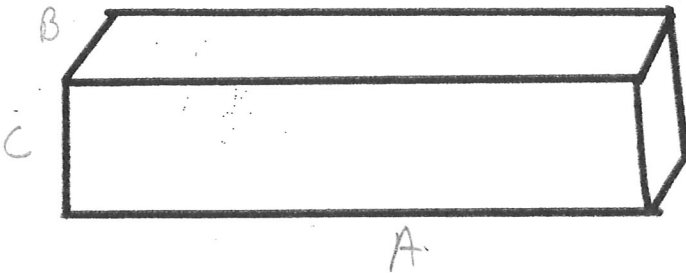
Date: 8-21-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 1

Stone ID No.
78GE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphus
(Print)

(Signed)

Date: 8-24-22

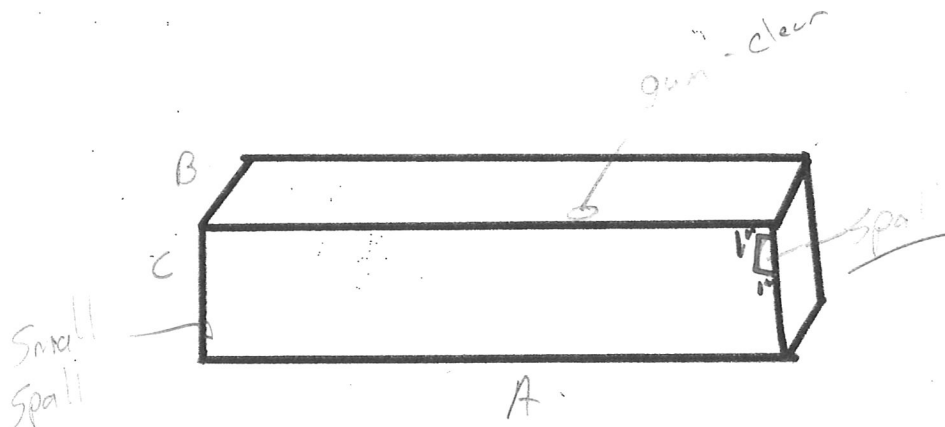
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row Z - 9

Stone ID No.

78GW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall left head joint of riser near bottom
Small spot of gum on tread front right of center
Worn spall on right head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphus
(Print)

(Signed)

Date: 8-24-22

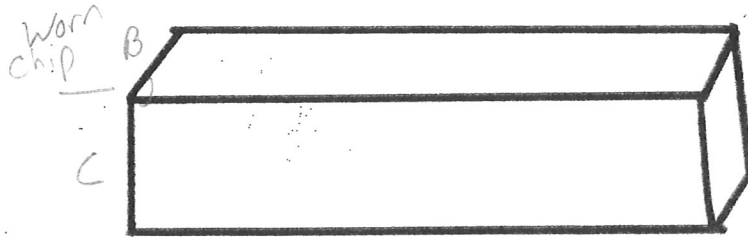
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 2

Stone ID No.

78JE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chip on left front corner of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Gephers
(Print)

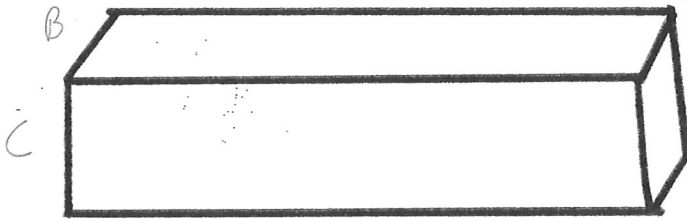
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Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 8

SKETCH



Stone ID No.

78JW

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17½	
C	5½	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cypus
(Print)

(Signed)

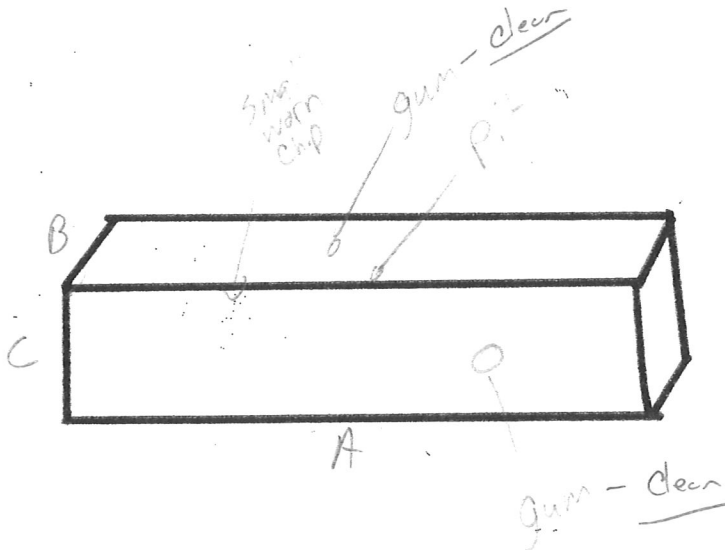
Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 3

Stone ID No.
78LE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

gum spot on right side of riser face and left of center on tread
Small pit front center of tread
Small worn chip on nosing left side

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Clear

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

Date: 8-24-22

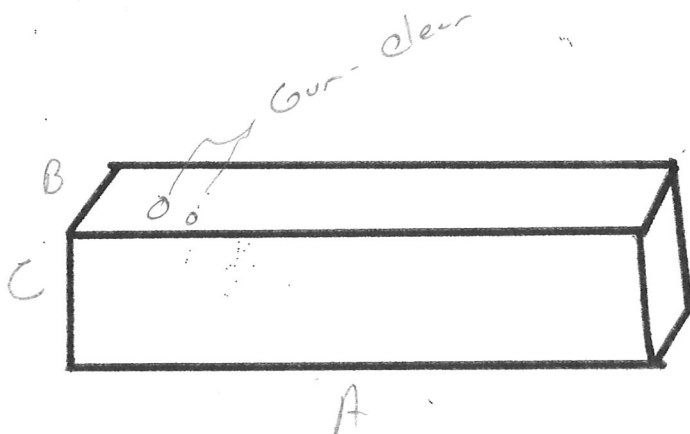
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 7

Stone ID No.

78LW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	67 1/8	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair _____
- *Patching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

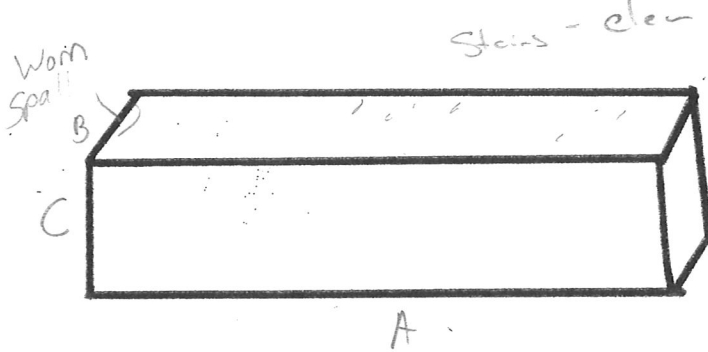
(Signed)

Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 4

SKETCH



Stone ID No.
78NE

Location	Length (in)	
Overall Dimensions:		
A	67 1/8	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn Spall on left joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair clean
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson

(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative: Rex Cyphers

(Print)

(Signed)

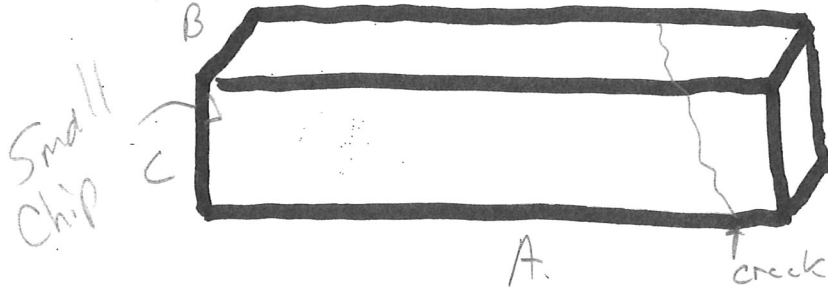
Date: 8-21-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C - Row 2 - 6

SKETCH



Stone ID No.
78 NW

Location.	Length (in).	
Overall Dimensions:		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chip left head joint of riser near top

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

Date: 8-24-22

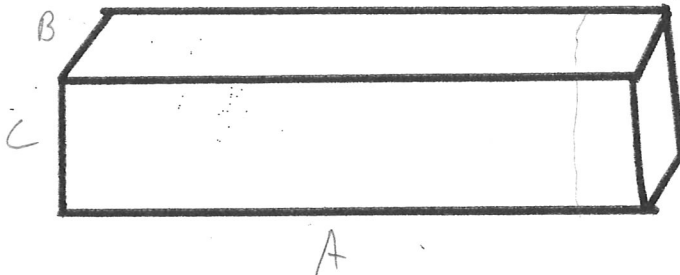
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row I - 5

Stone ID No.

78Q

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	79	
B	17	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large Crack on Right side of stone
(appears to run clear through)
Crack was previously patched

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- *Stone cleaning recommended: Minor / Moderate to heavy
- *Type of repair _____
- *Patching required? Yes / No (if yes, shade the area on the sketch)
- *Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- *Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Rex Cyphus
(Print)

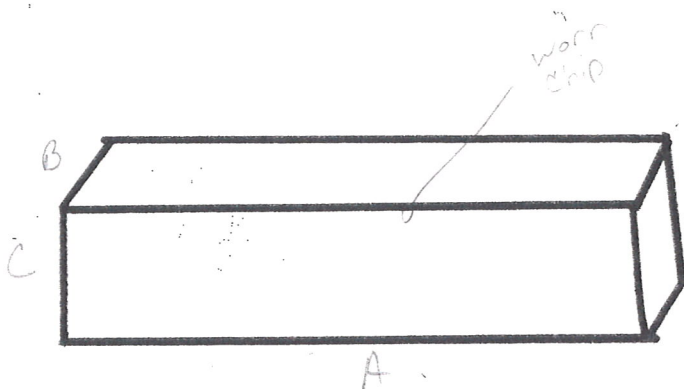
(Signed)

Date: 8-24-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/9

SKETCH



Stone ID No.
79BE

Location	Length (in)	
Overall Dimensions:		
A	32 7/8	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

worn chip on nosing right of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

✓
(Print)

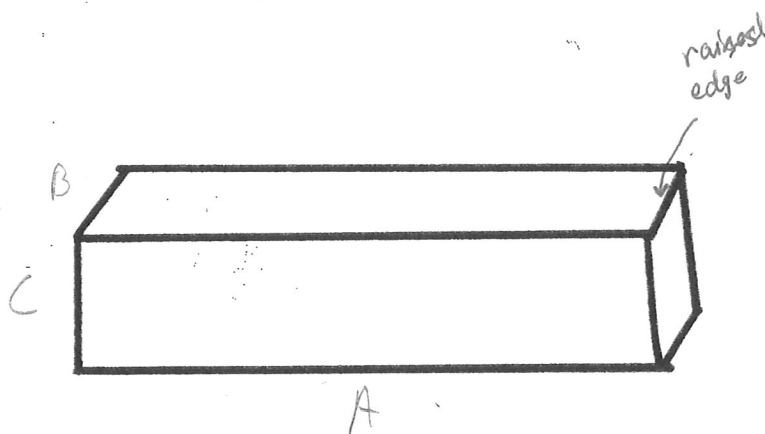
(Signed)

Date: _____

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/11

SKETCH



Stone ID No.

79BW

Location	Length (in)	
Overall Dimensions		
A	32 1/4	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Cracking on cheek wall above right joint of tread

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

(Print)

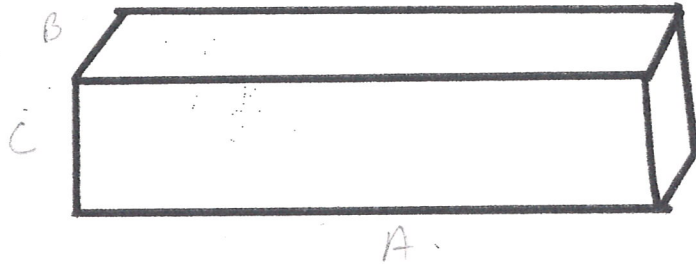
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/10

SKETCH



Stone ID No.
79DE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/2	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson

(Print)

(Signed)

Date: _____

WDP/GSD Representative: _____

(Print)

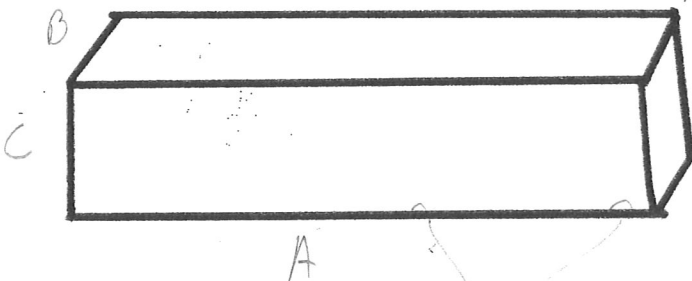
(Signed)

Date: _____

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/10

SKETCH



Stone ID No.

79DW

Location	Length (in)	
Overall Dimensions:		
A	65 3/4	
B	17 3/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 small spalls on right side of bed joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

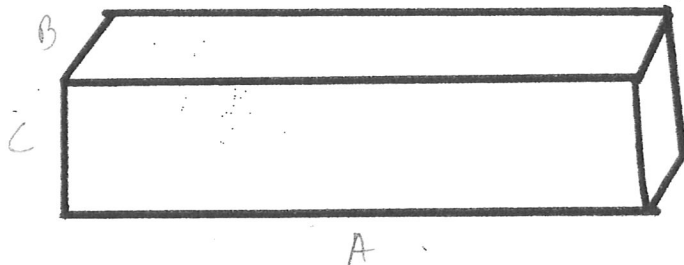
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/11

SKETCH



Stone ID No.
79FE

Location	Length (in)	
Overall Dimensions		
A	67	
B	16 ³ / ₄	
C	5 ⁵ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

✓
(Print)

(Signed)

Date: _____

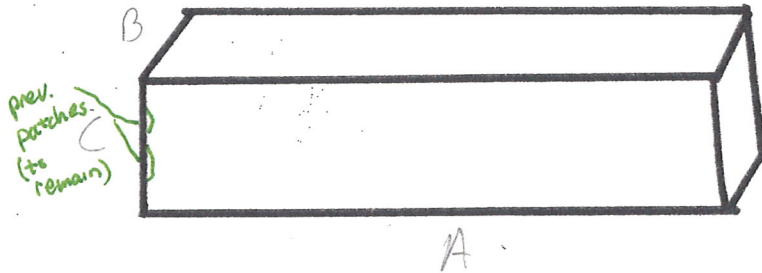
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/9

SKETCH

Stone ID No.
79FW

Location	Length (in)	
Overall Dimensions:		
A	66 23/32	
B	17 1/4	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		



Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

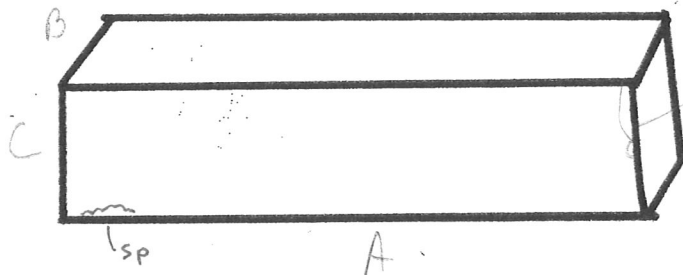
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/12 (No. end)

SKETCH



Stone ID No.
79HE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 3/4	
C	5 1/2	73/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chipping on top right corner head joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

(Print)

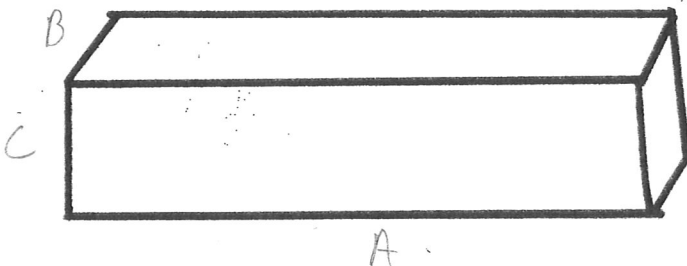
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/7

SKETCH



Stone ID No.

79HW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ³ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

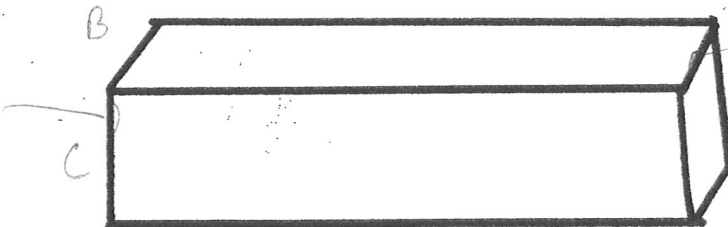
(Signed)

Date: _____

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/1

SKETCH



Stone ID No.

79KE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 3/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall top of left head joint of riser
Small spall right joint of area

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

✓
(Print)

(Signed)

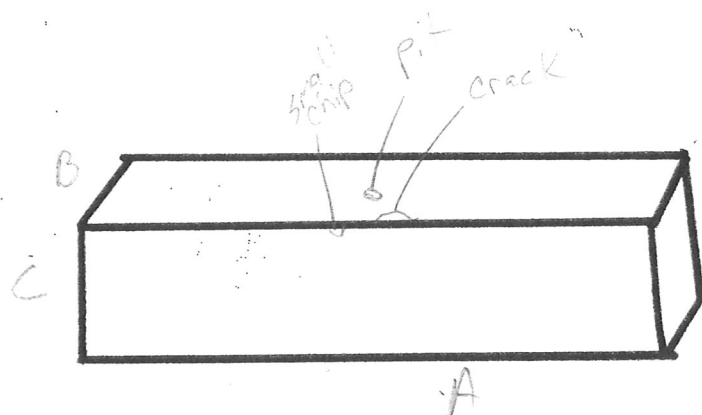
Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/G

Stone ID No.
79KW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small worn chip center of nosing
Pit on front of tread right of center
Small crack on nosing right of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

✓
(Print)

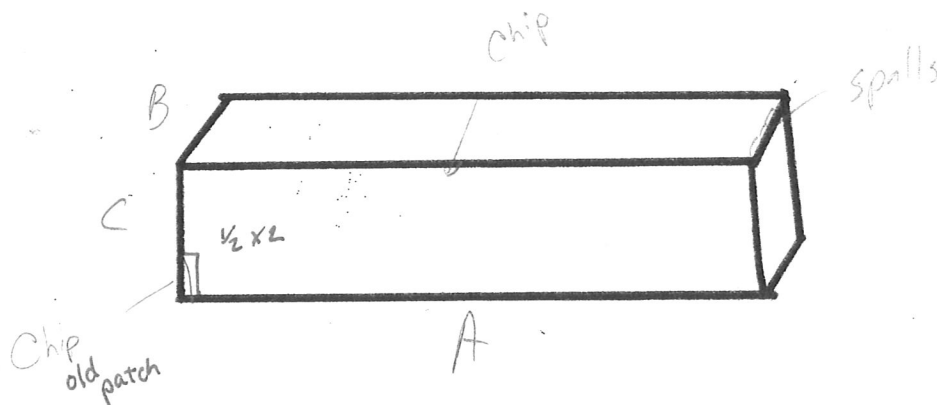
(Signed)

Date: _____

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/2

SKETCH



Stone ID No.

79ME

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/2	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chip bottom left corner of riser
Chip center of nosing
Spalls along right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

(Print)

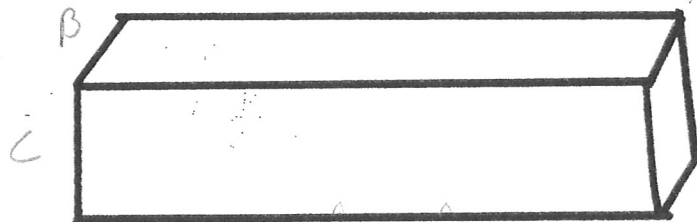
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/5 (No. of aisle)

SKETCH



Stone ID No.

79MW

Location.	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	73 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 small chips near center of bed joint of riser

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-16-22

WDP/GSD Representative:

(Print)

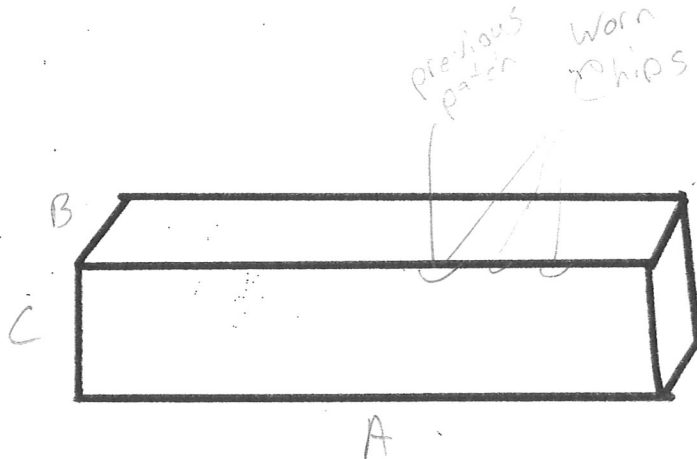
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/3

SKETCH



Stone ID No.

79PE

Location	Length (in)	
Overall Dimensions		
A	73 1/8	
B	17 1/8	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chips on nosing
Previous patch on nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

(Print)

(Signed)

Date:

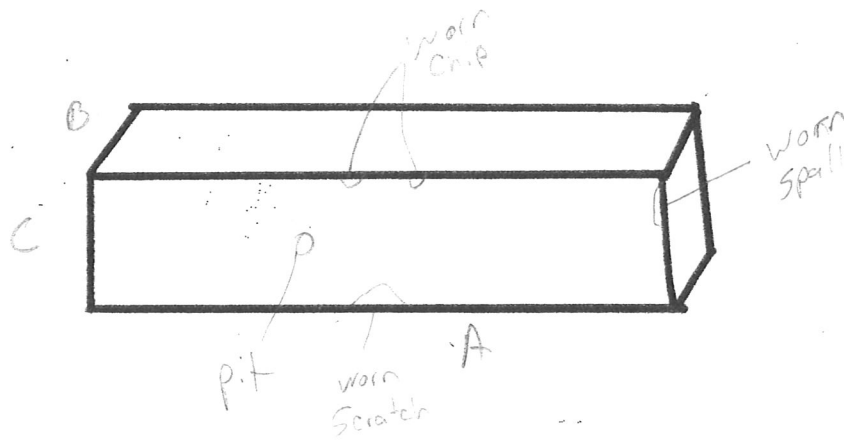
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/H/4 (S of aisle)

Stone ID No.

79PW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	73 1/2	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Pit on left side of face of riser
Worn scratch near center of bed joint of riser
2 Worn chips near center of nosing
Worn spall right head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-17-22

WDP/GSD Representative:

[Signature]
(Print)

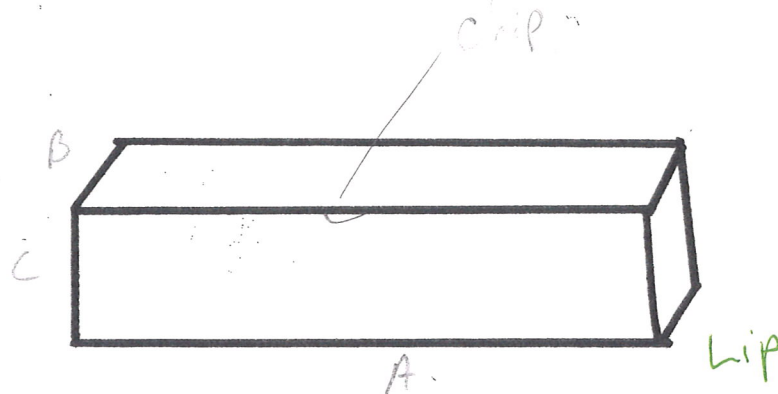
(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/F/15

SKETCH



Stone ID No.
80CE

Location	Length (in)	
Overall Dimensions:		
A	66 5/8	
B	17 1/2	
C	57 1/6	73 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chip on nosing left of center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-15-22

WDP/GSD Representative:

P Dillon
(Print)

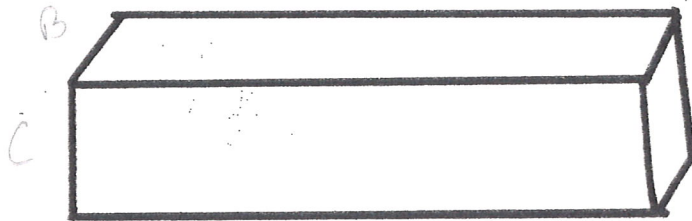
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(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/8

SKETCH



cracking
on
Cheek Wall

Stone ID No.
80CW

Location.	Length (in)	
Overall Dimensions		
A	65	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Cracking on Cheek Wall above right joint of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

✓ P. Dillon
(Print)

(Signed)

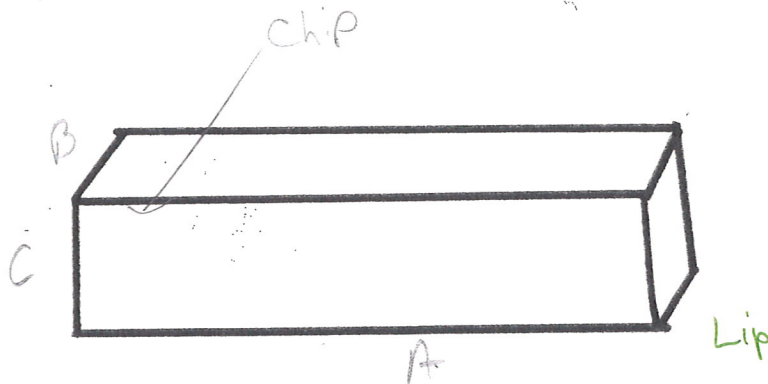
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/F/16 (No. end.)

Stone ID No.
80EE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	67	
B	17 1/2	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip on left side of nosing / top left of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

✓ P Dillon
(Print)

(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/7

Stone ID No.
80EW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	65 3/4	
B	17 1/2	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

P Dillen
(Print)

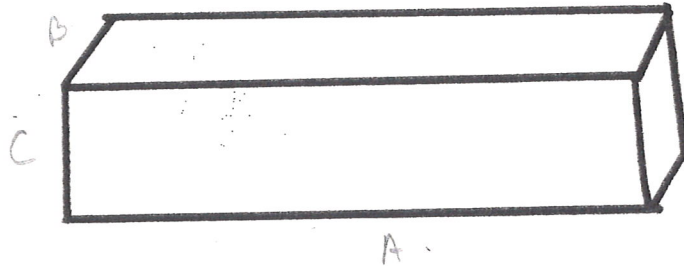
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/F/I

SKETCH



Stone ID No.
80GE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/5/22

WDP/GSD Representative:

J P Dillon
(Print)

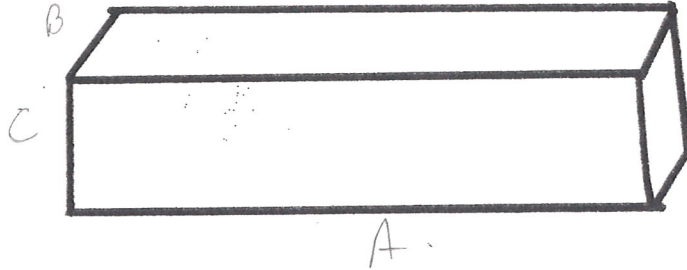
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/6

SKETCH



Stone ID No.
80GW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 $\frac{3}{8}$	
C	5 $\frac{1}{2}$	7 $\frac{3}{4}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

P. Dillon
(Print)

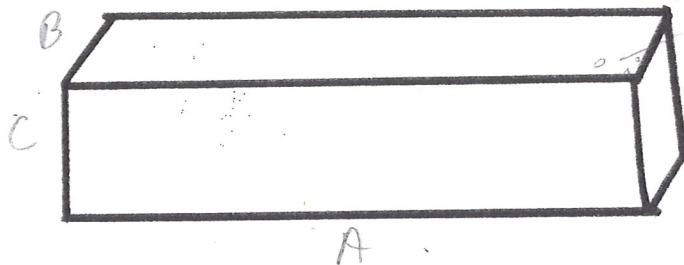
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/F/2

SKETCH



Stone ID No.
80JE

Location	Length (in)	
Overall Dimensions:		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ¹ / ₂	7 ¹ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small pits forming on right front corner of head

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-15-22

WDP/GSD Representative:

P Dillon
(Print)

[Signature]
(Signed)

Date: 8/23/22

Stone Survey Sheet

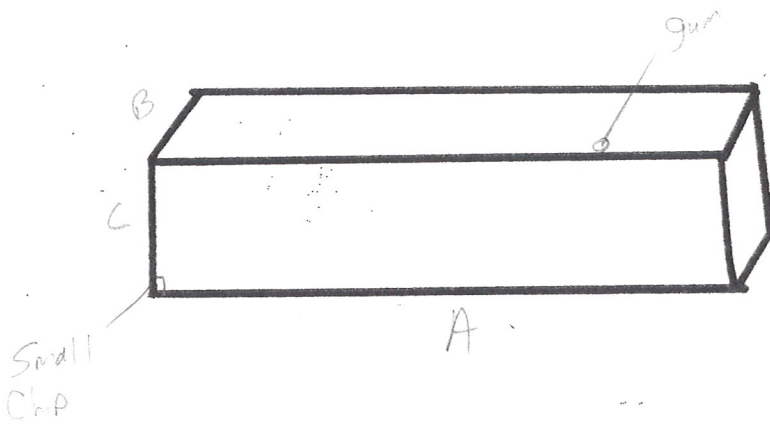
Location Drawing D4.02
Storage Drawing C/G/5 (No of aisle)

SKETCH

Stone ID No.

80JW

Location.	Length (in)	
Overall Dimensions:		
A	67	
B	16 5/8	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		



Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chip on bottom left corner of riser
Small spot of gum on back right side of riser

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-15-22

WDP/GSD Representative:

P. Dillon
(Print)

[Signature]
(Signed)

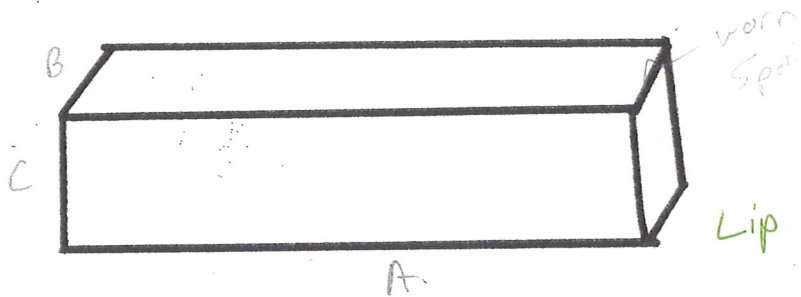
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/F/3

Stone ID No.
80LE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 ¹³ / ₁₆	
B	17 ⁷ / ₁₆	
C	5 ³ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn Spall on right joint of head

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDF/GSD Representative:

P. Dillon
(Print)

(Signed)

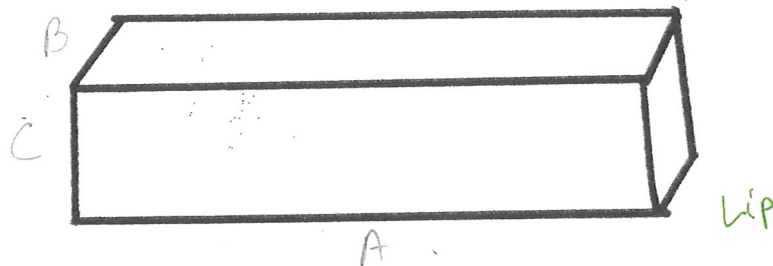
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing G/G/4 (so of aisle)

SKETCH



Stone ID No.

80LW

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 1/4	
C	5 1/2	7 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

P. Dillon
(Print)

(Signed)

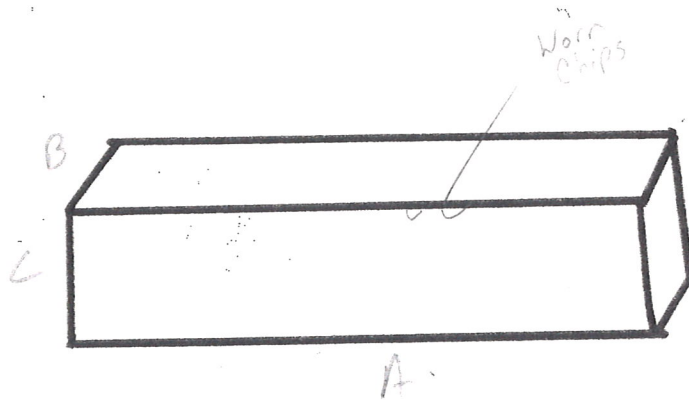
Date: 8/28/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/G/11 (first after oak)

SKETCH



Stone ID No.
80NE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/2	
C	5 1/2	73 1/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chips right of center on rising

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

✓ P Dillon
(Print)

(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/3

SKETCH



Stone ID No.
80NW

Location	Length (in)	
Overall Dimensions:		
A	66 ¹³ / ₁₆	
B	17 ¹ / ₄	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Several small spalls on right joint of tread near back

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

P Dillon
(Print)

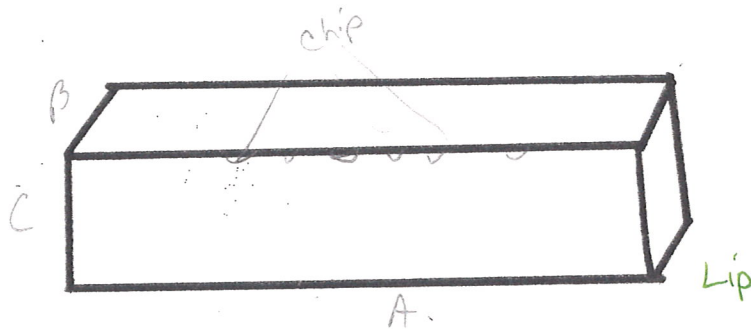
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/G/2

SKETCH



Stone ID No.
80Q

Location	Length (in)	
Overall Dimensions		
A	78 ³ / ₄	
B	17 ¹ / ₄	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small worn chips along nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

P Dillon
(Print)

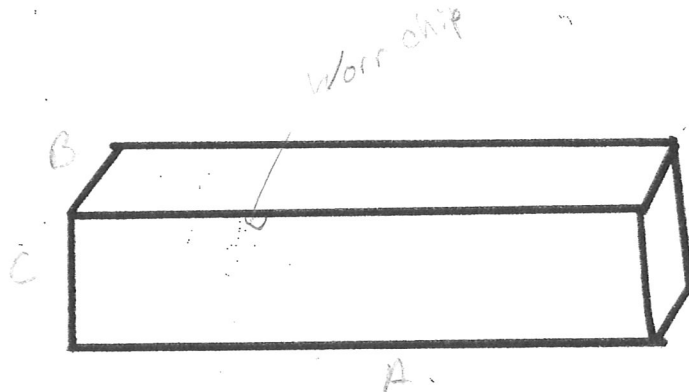
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/14

SKETCH



Stone ID No.
81BE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn chip on left side of nosing

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

Rex Cyphus
(Print)

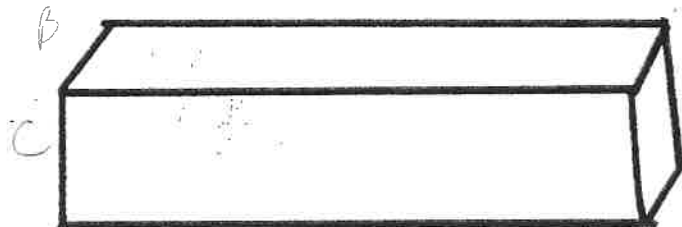
(Signed)

Date: 8-23-21

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Cracking
on cheek
wall

Stone ID No.

81BW

Location	Length (in)	
Overall Dimensions		
A	31 13/16	
B	17 1/2	
C	5 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Rogers
(Print)

(Signed)

Date: 8-23-22

Stone Survey Sheet

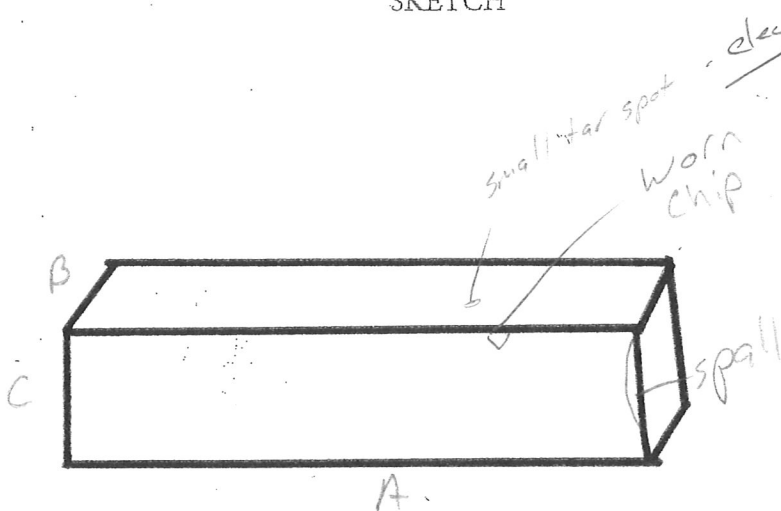
Location Drawing D4.02

Storage Drawing Area C - Row E - 15

Stone ID No.

81DE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₂	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on right head joint of riser
Worn chip on right side of nosing
small tar spot on tread right of center

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair Clean

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

Rex Cophus
(Print)

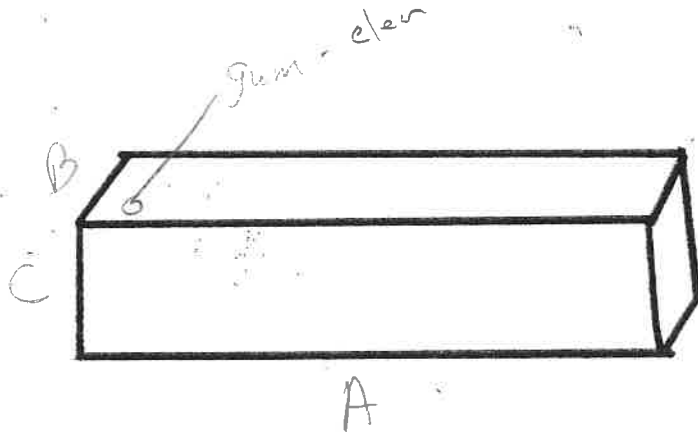
(Signed)

Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row F - 13

SKETCH



Stone ID No.
81DW

Location	Length (in)	
Overall Dimensions:		
A	65 1/2	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

gum on tread

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: Clear
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

~~Scott Johnson~~ Scott Johnson
(Print) (Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Gohrs
(Print) (Signed)

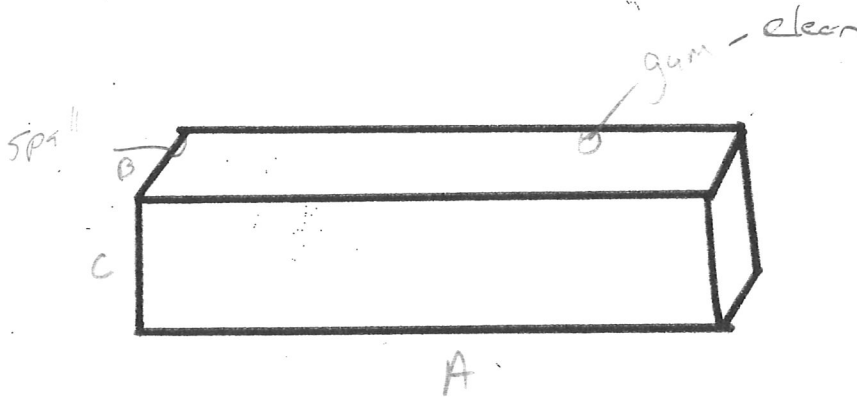
Date: 8.23.22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row E - 16

Stone ID No.
81FE

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	57 1/2	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on left joint of tread
gun spot on back right of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair clean
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

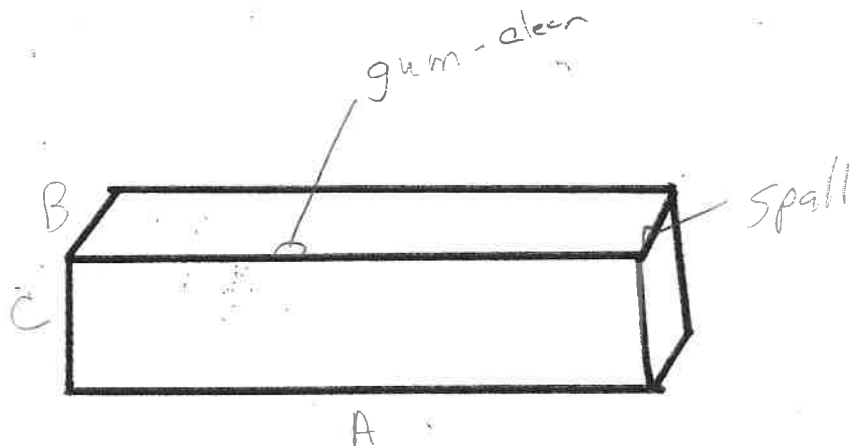
Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row F - 12

Stone ID No.
81FW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	16 3/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

gum spot on front left of tread
spall on right joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Clear
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphers
(Print)

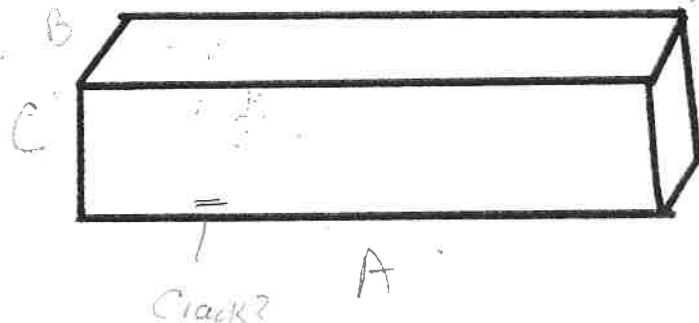
(Signed)

Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C-Raw F-4

SKETCH



Stone ID No.

81HE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphers
(Print)

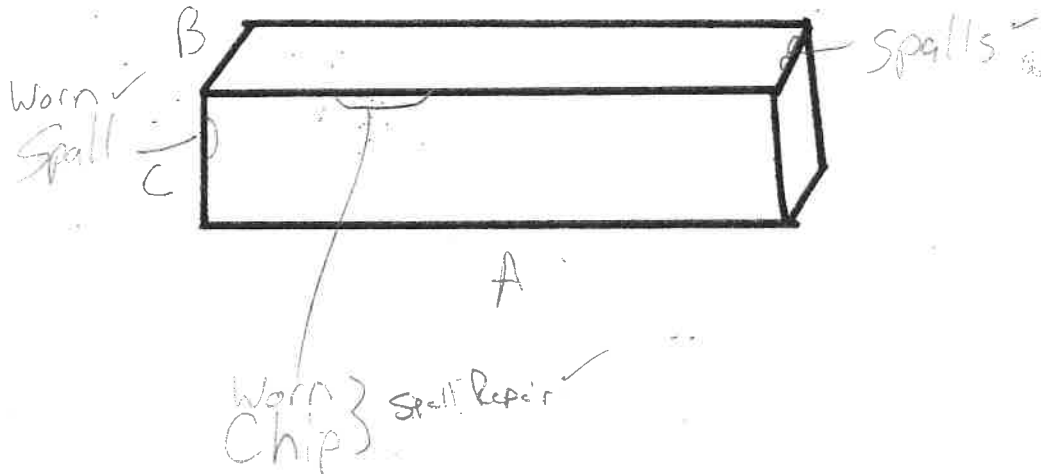
(Signed)

Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row F - 11

SKETCH



Stone ID No.
81HW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spall left head joint of riser
Worn chip left side of nosing
Spalls right joint on tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative: Rex Cyphers
(Print)

(Print)

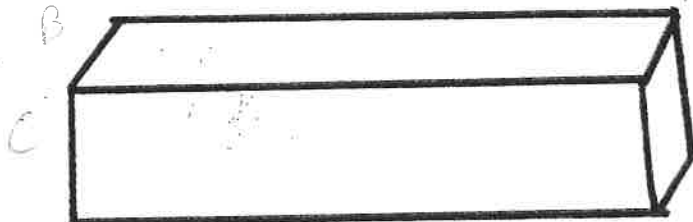
(Signed)

Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row - 5

SKETCH



Stone ID No.
81KE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₁₆	
B	17 ¹ / ₄	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphers
(Print)

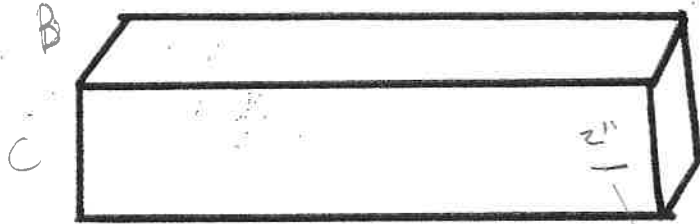
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Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row F - 10

SKETCH



Scratch
Pitting
↑
Crack Injection

Stone ID No.

81KW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ⁷ / ₁₆	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Scratch or pitting

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Crack Injection - 2 in
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphers
(Print)

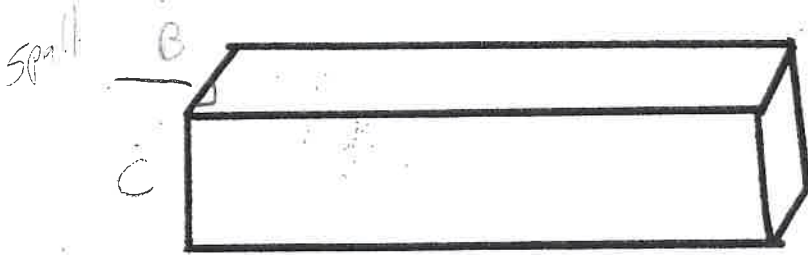
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Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C Row F - 6

SKETCH



Stone ID No.
81ME

Location	Length (in)	
Overall Dimensions:		
A	66 1/2	
B	17 5/16	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on left joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-11-22

WBP/GSD Representative:

Rex C. Pheasant
(Print)

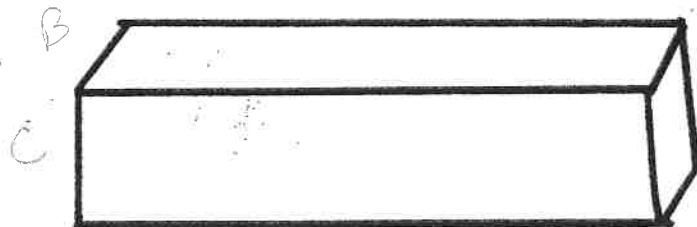
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(Signed)

Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row F - 9

SKETCH



Stone ID No.
81MW

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphus
(Print)

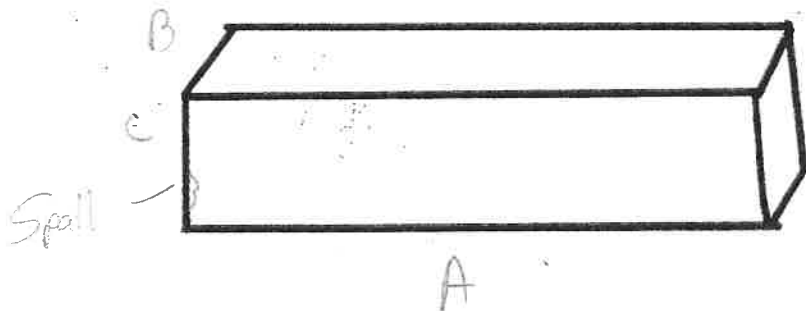
(Signed)

Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row 12 - 7

SKETCH



Stone ID No.
81PE

Location	Length (in)	
Overall Dimensions		
A	73	
B	17 ³ / ₈	
C	5 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Heavy Overall Weathering
Spalls left head joint & riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphus
(Print)

(Signed)

Date: 8-23-22

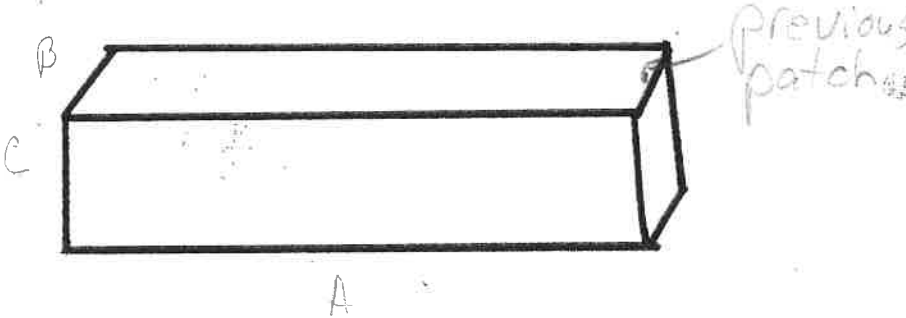
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row F - 8

Stone ID No.

81PW

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	72 ⁷ / ₈	
B	17 ¹ / ₂	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Previous patch right side joint of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphers
(Print)

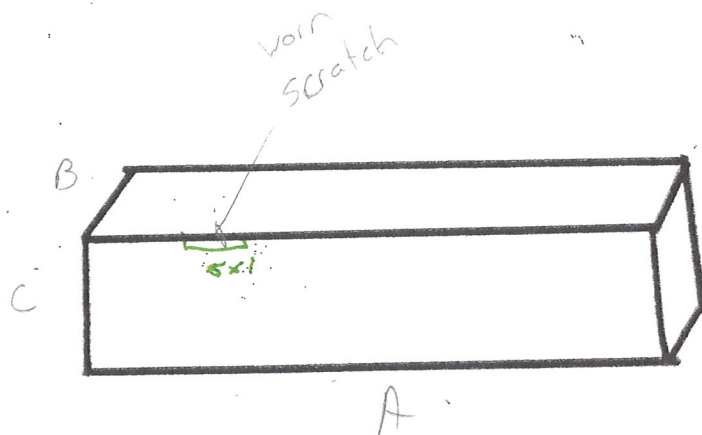
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Date: 8-23-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/1

SKETCH



Stone ID No.
82CE

Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn scratch left side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WEP/GSD Representative:

P Dillon
(Print)

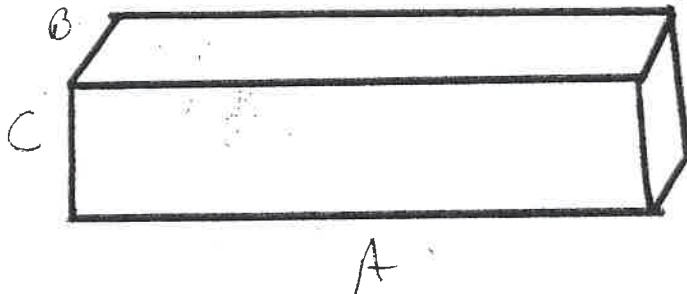
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
82CW

Location	Length (in)	
Overall Dimensions		
A	65 1/2	
B	17 1/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

[Signature]
(Signed)

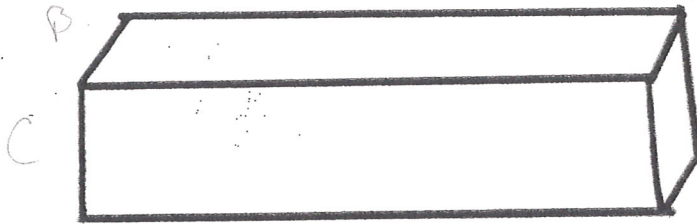
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/2

Stone ID No.
82EE

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	66 ³ / ₄	
B	17 ⁵ / ₈	
C	5 ⁵ / ₈	7
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-15-22

WDP/GSD Representative:

P Dillon
(Print)

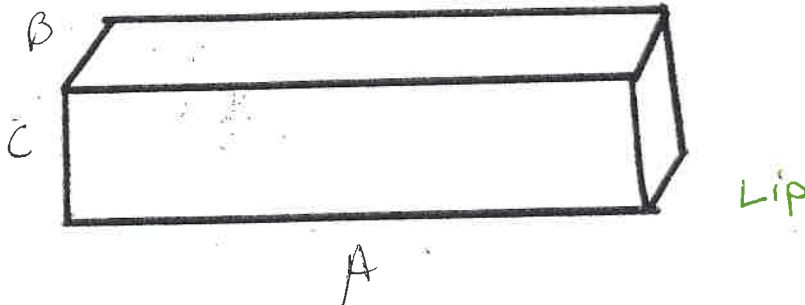
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(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/12

SKETCH



Stone ID No.
82EW

Location	Length (in)	
Overall Dimensions		
A	65 1/2	
B	17 1/2	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P. O'Brien
(Print)

(Signed)

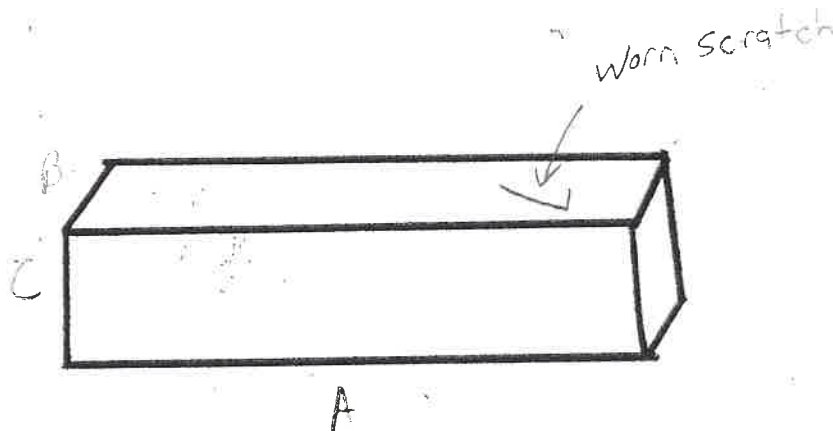
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/E/3

SKETCH



Stone ID No.

82GE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₈	
C	5 ¹ / ₂	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Scratch on right side of tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

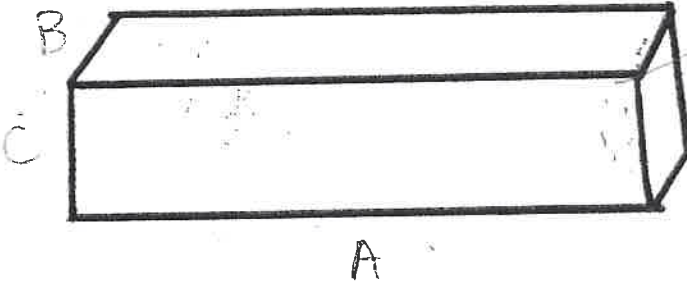
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/11

SKETCH



Stone ID No.
82GW

Location	Length (in)	
Overall Dimensions:		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ⁵ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

light pitting right side of tread and riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P. Dillen
(Print)

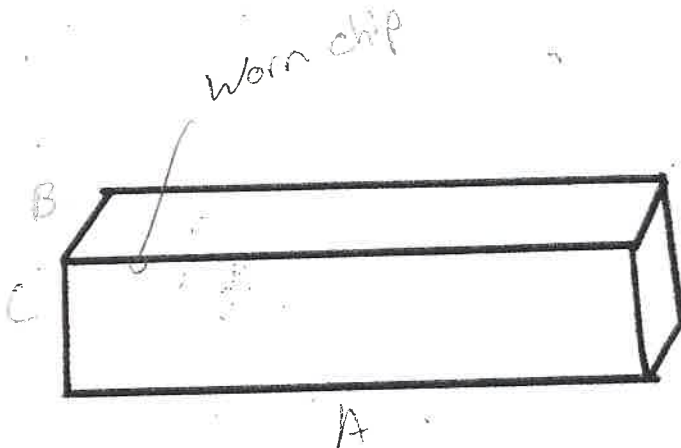
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/4

SKETCH



Stone ID No.
82JE

Location	Length (in)	
Overall Dimensions		
A	67 1/16	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chip on left side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

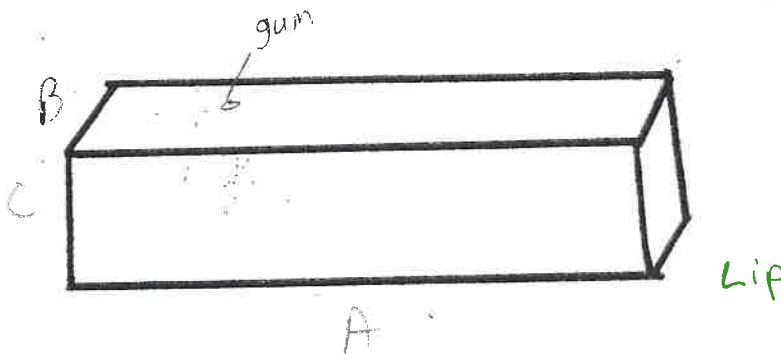
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/E/10 (No. of Asks)

SKETCH



Stone ID No.

82JW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ¹ / ₂	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small gum spot left side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WBP/GSD Representative:

P. Dillen
(Print)

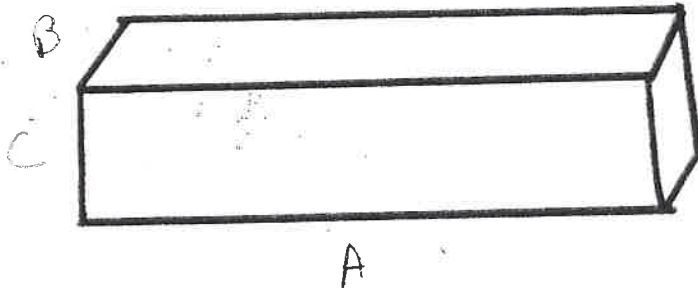
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/5

SKETCH



Stone ID No.
82LE

Location	Length (in)	
Overall Dimensions		
A	67 1/4	
B	17 1/2	
C	5 1/2	7 1/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

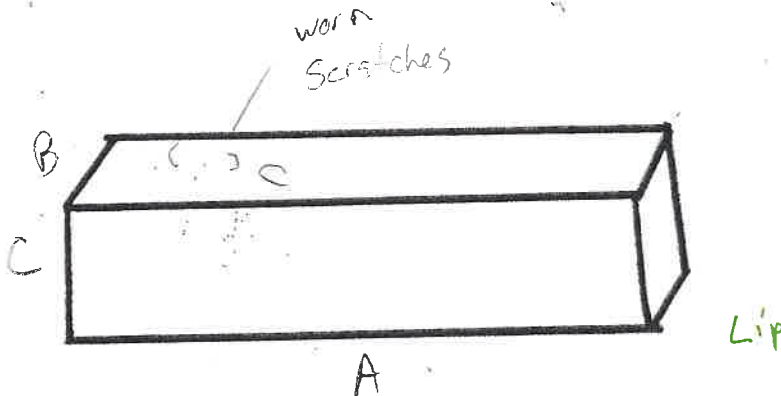
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/ 9 (So of Aisle)

SKETCH



Stone ID No.
82LW

Location	Length (in)	
Overall Dimensions:		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ³ / ₈	7 ¹ / ₂
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn scratches left side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

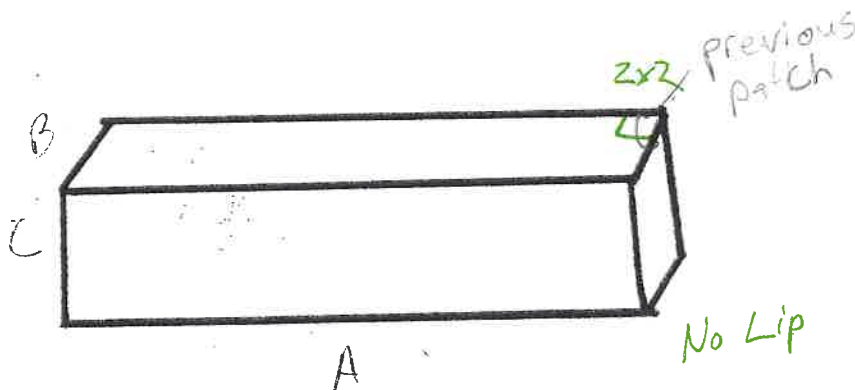
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/6

SKETCH



Stone ID No.
82NE

Location	Length (in)	
Overall Dimensions		
A	67 1/8	
B	17 3/8	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall weathered; pitting
Previous Patch Back right of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: A [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

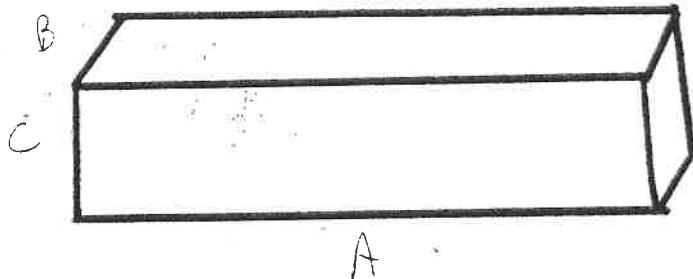
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/8

SKETCH



Stone ID No.
82NW

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/2	
C	5 1/2	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

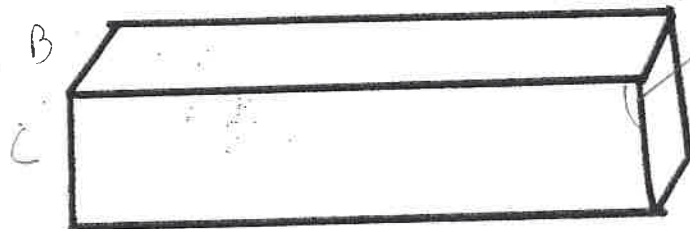
- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-11-22
WDP/GSD Representative: P Dillen (Print) [Signature] (Signed) Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/E/7

SKETCH



Stone ID No.

82Q

Location	Length (in)	
Overall Dimensions		
A	78 ⁷ / ₈	
B	17 ¹ / ₄	
C	5 ⁵ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall Weathering; Pitting on riser face
Worn Spall right side head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

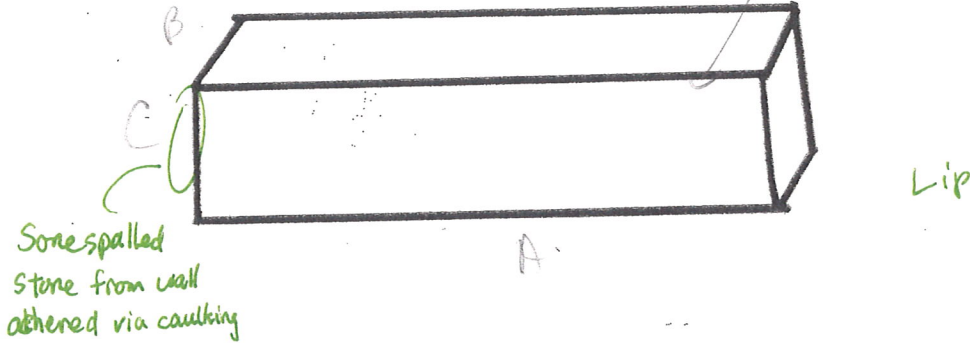
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/7

SKETCH



Stone ID No.
83BE

Location	Length (in)	
Overall Dimensions		
A	33	
B	17 1/2	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chip on right side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

P Dillon
(Print)

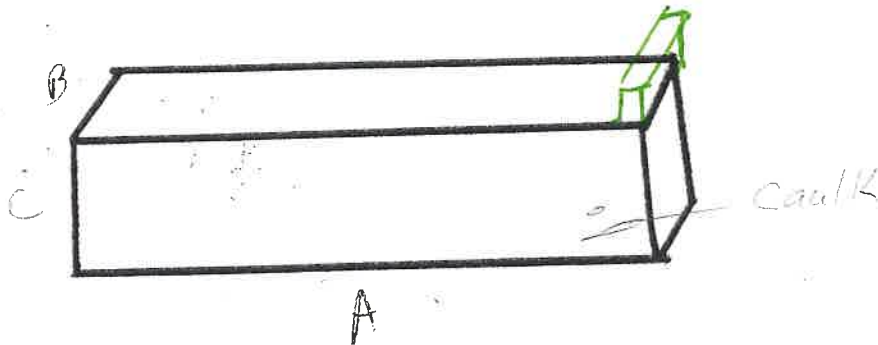
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/20

SKETCH



Stone ID No.
83BW

Location	Length (in)	
Overall Dimensions		
A	32 ⁵ / ₈	
B	17 ⁷ / ₁₆	
C	5 ¹ / ₂	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spots of caulking lower right face of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

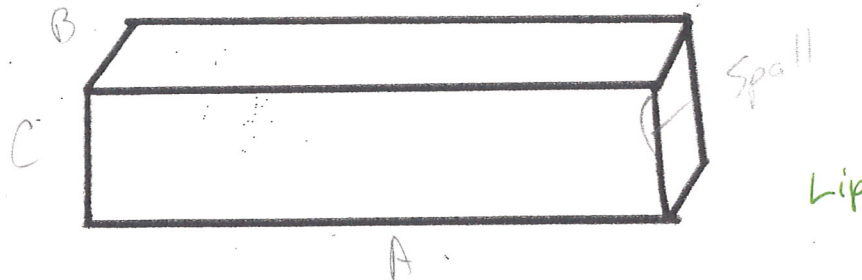
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/8

Stone ID No.
83DE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/2	
C	5 1/2	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on right head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WDP/GSD Representative:

P Dillen
(Print)

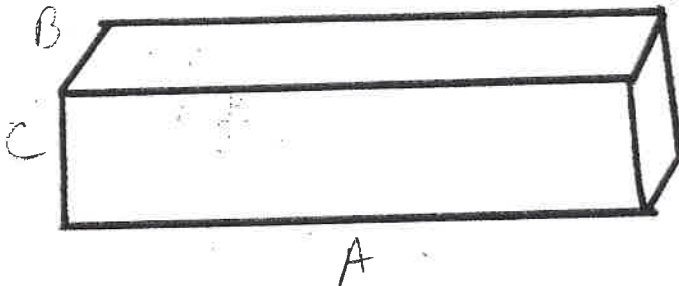
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/19

SKETCH



Stone ID No.
83DW

Location	Length (in)	
Overall Dimensions		
A	64 ³ / ₈	
B	17 ³ / ₈	
C	5 ³ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

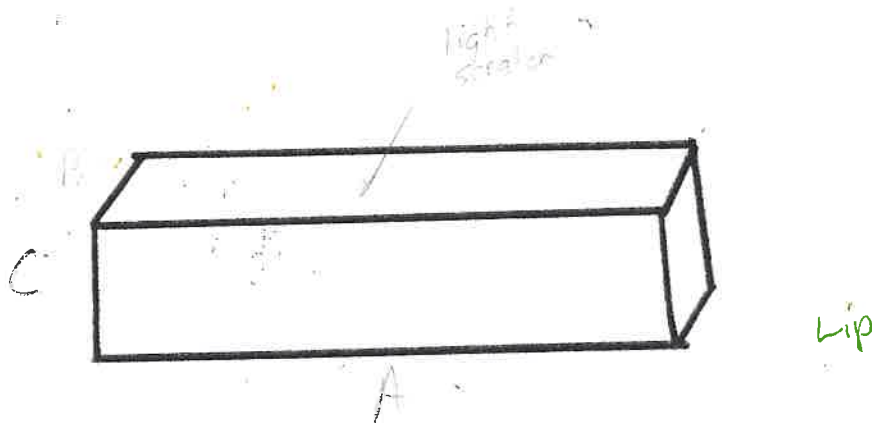
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/9

SKETCH



Stone ID No.
83FE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

light worn scratch mark near center of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillen
(Print)

(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/D/18

SKETCH



Stone ID No.
83FW

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ⁵ / ₈	7 ¹ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall right head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Diller
(Print)

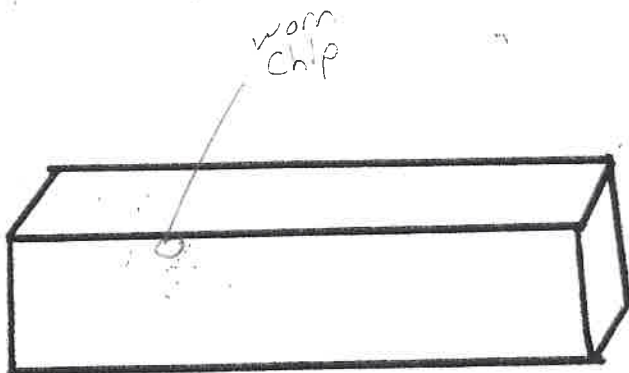
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/10

SKETCH



Stone ID No.
83HE

Location	Length (in)	
Overall Dimensions:		
A	66 7/8	
B	17 3/8	
C	5 5/8	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chip on left side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Dillon
(Print)

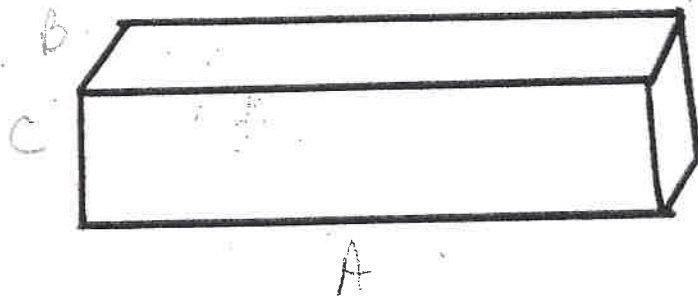
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/17

SKETCH



Stone ID No.
83HW

Location.	Length (in)	
Overall Dimensions		
A	67	
B	17 $\frac{7}{16}$	
C	5 $\frac{5}{8}$	7 $\frac{7}{8}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Diller
(Print)

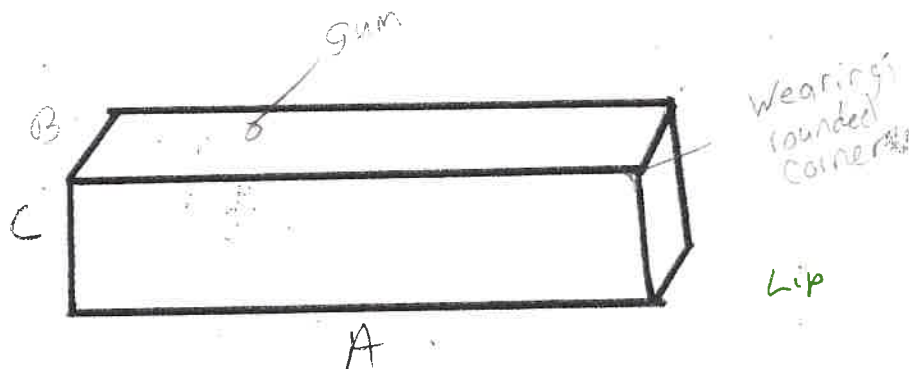
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/O/11

SKETCH



Stone ID No.
83KE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Gum on left side of tread
Worn and Rounded corner top right of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

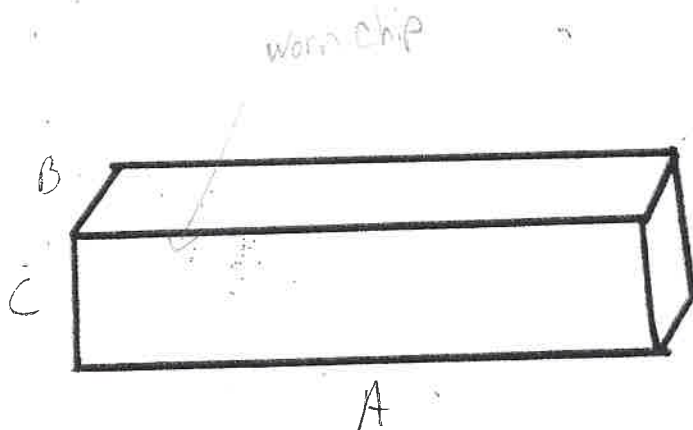
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/16

SKETCH



Stone ID No.
83KW

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17 ³ / ₈	
C	5 ⁵ / ₈	7 ¹ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chip on left side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P. Diller
(Print)

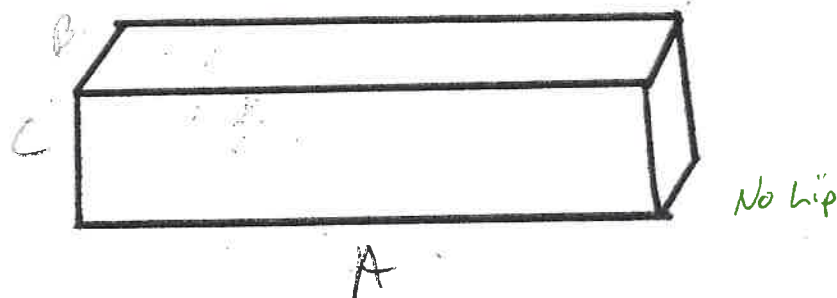
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/12

SKETCH



Stone ID No.

83ME

Location	Length (in)	
Overall Dimensions		
A	66 1/8	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Wearing on face of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WBP/GSD Representative:

P. Dillon
(Print)

(Signed)

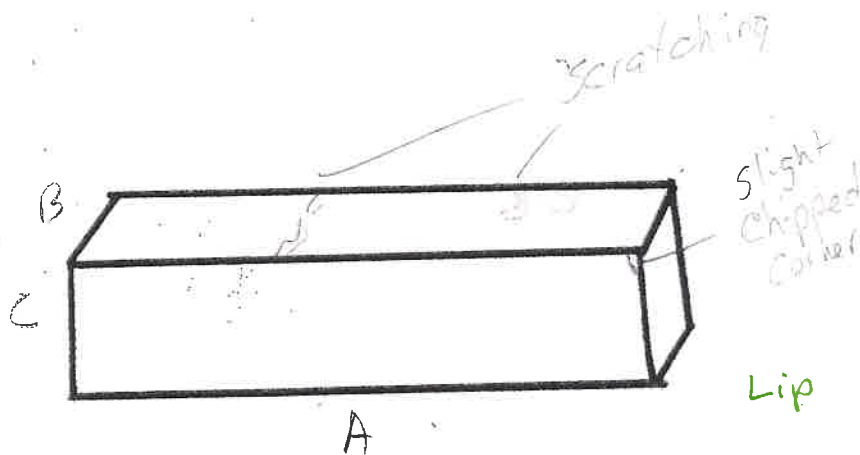
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/D/15

SKETCH



Stone ID No.

83MW

Location	Length (in)	
Overall Dimensions:		
A	66 $\frac{1}{8}$	
B	17 $\frac{3}{8}$	
C	5 $\frac{5}{8}$	7 $\frac{5}{8}$
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn Scratches in tread
Slight chip top right corner of riser

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

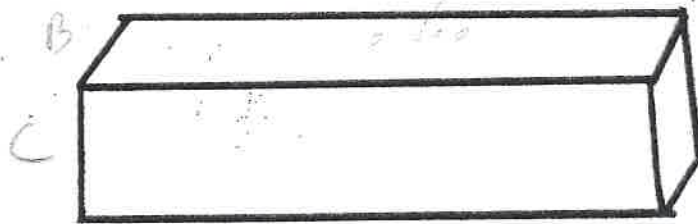
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/13

SKETCH



No Lip

Stone ID No.

83PE

Location	Length (in)	
Overall Dimensions:		
A	72 ³ / ₄	
B	17 ¹ / ₂	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Weathered Face and pitting on face of riser
Slight pitting on tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

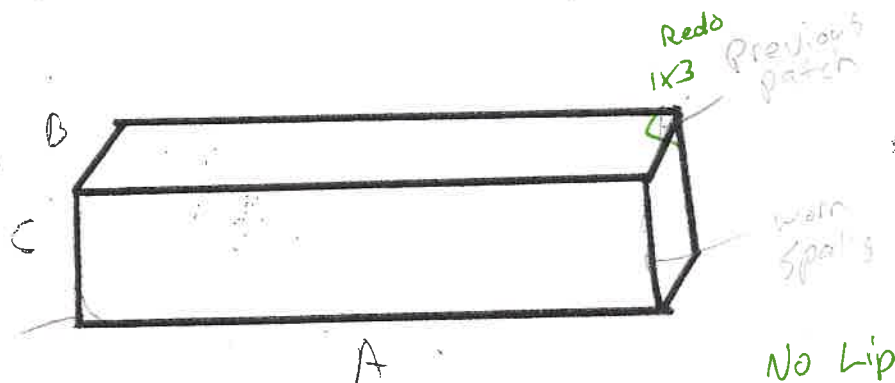
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/14

SKETCH



Stone ID No.

83PW

Location	Length (in)	
Overall Dimensions		
A	72 13/16	
B	17 2/8	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Heavy Weathering; Pitting
Worn spalls right side head joint of riser
Previous Patch back right of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillen
(Print)

(Signed)

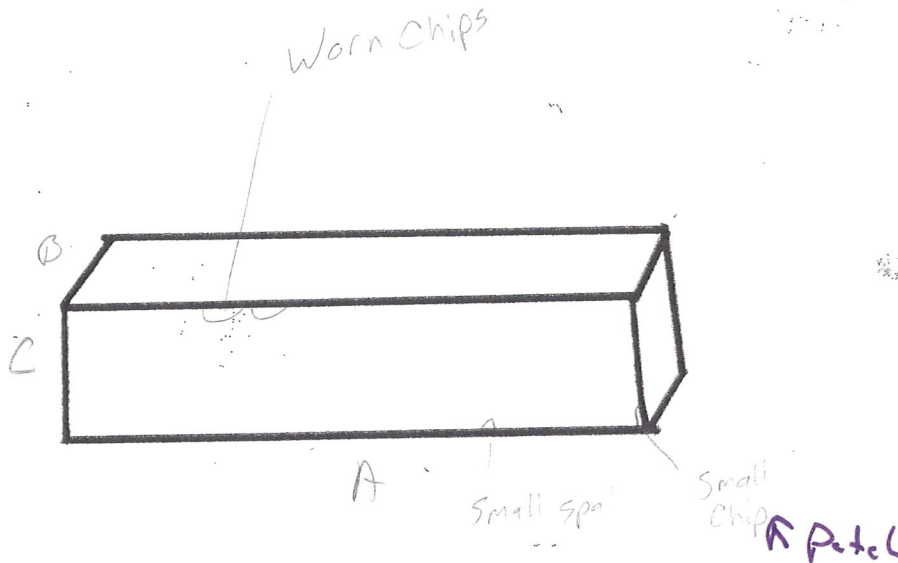
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Room C - 13

Stone ID No.
84CE

SKETCH



Location	Length (in)	
Overall Dimensions		
A	66 1/2	
B	17 1/2	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 worn chips left side of nosing
Small spall on right side of bed joint of riser
Small chip bottom right corner of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-15-22

WEP/GSD Representative:

Rex Cyphers
(Print)

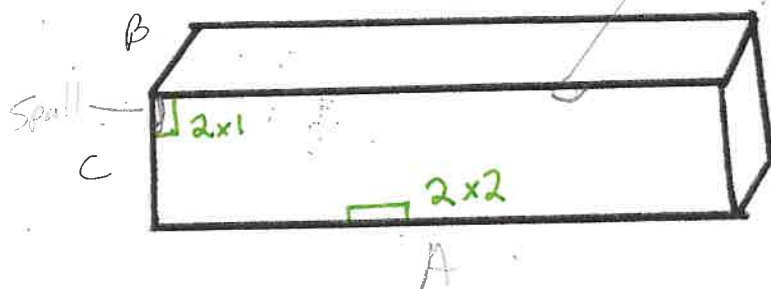
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Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/6

SKETCH



Stone ID No.

84CW

Location	Length (in)	
Overall Dimensions:		
A	63 1/4	
B	17 1/4	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn chip on nosing
Spall left head joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

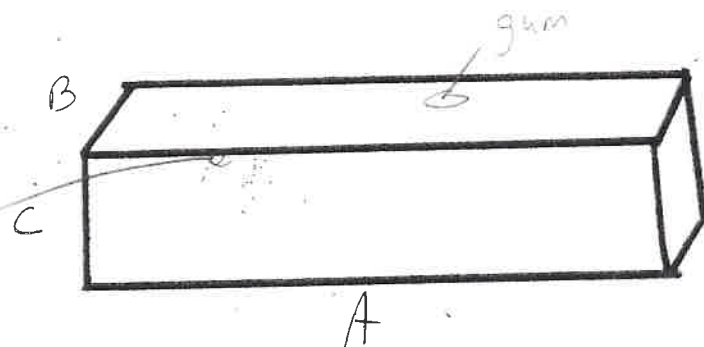
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing ARC B C 4 14

SKETCH



Stone ID No.

84EE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ⁵ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spot of gum on tread back right of corner
Small worn chip on nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P. Dillon
(Print)

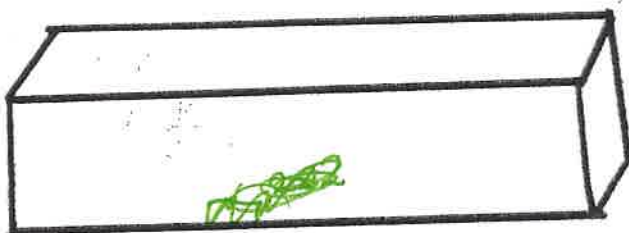
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/D/5

SKETCH



Stone ID No.

84EW

Location	Length (in)	
Overall Dimensions		
A	66	
B	17 1/4	
C	5 1/2	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P. Dillen
(Print)

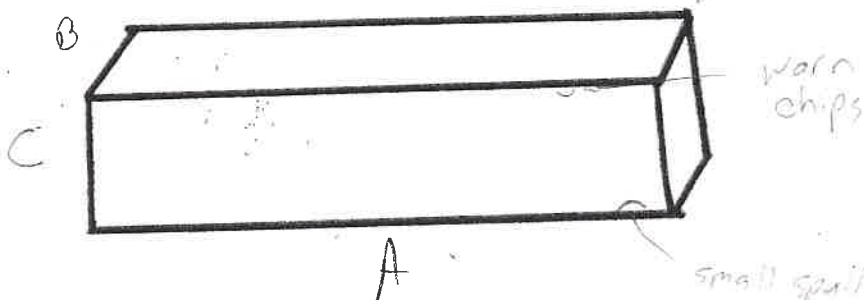
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/C/15

SKETCH



Stone ID No.
84GE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chips along mosing on right side
Small spall on right side bed joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

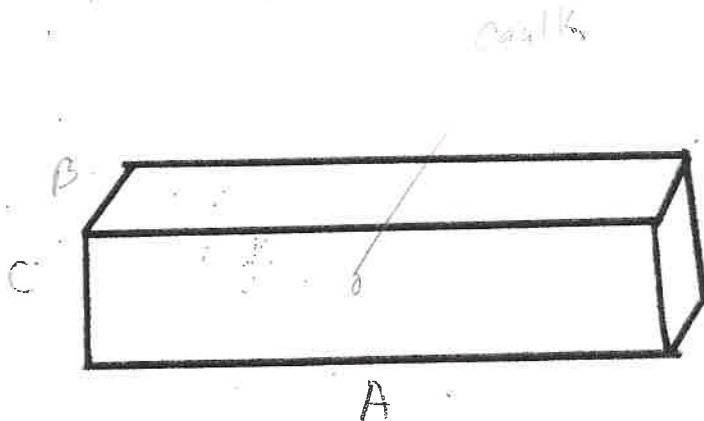
Date: 8/23/22

Stone Survey Sheet

Location Drawing _____

Storage Drawing Area C - Row D - 4

SKETCH



Stone ID No.

84GW

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	16 3/16	
C	5 1/2	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spot of caulking on face of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☒ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

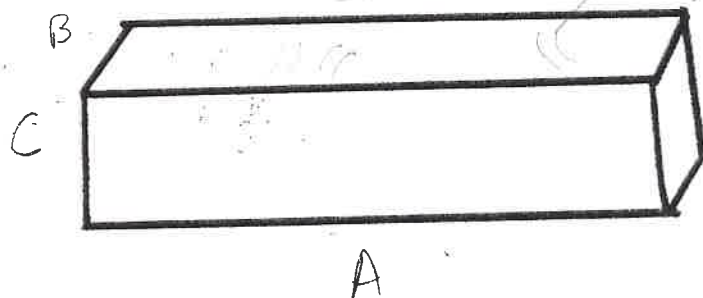
Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing C/C/16

SKETCH



Slight Scratching on tread

Stone ID No.

84JE

Location	Length (in)	
Overall Dimensions:		
A	65 1/16	
B	17 3/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Slight scratching on tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

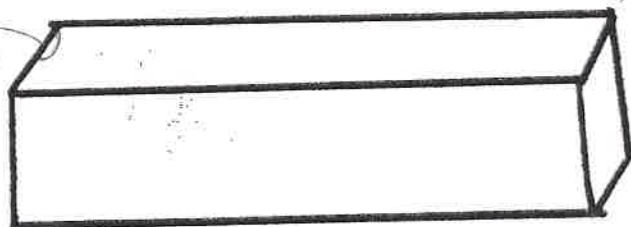
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C - Row D-3

SKETCH



Stone ID No.

84JW

Location	Length (in)	
Overall Dimensions:		
A	66 7/8	
B	17 1/2	
C	5 1/2 7 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall left side of tread on joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / ☒ (if yes, shade the area on the sketch)

• Volume of Patching: _____ [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Gyles
(Print)

(Signed)

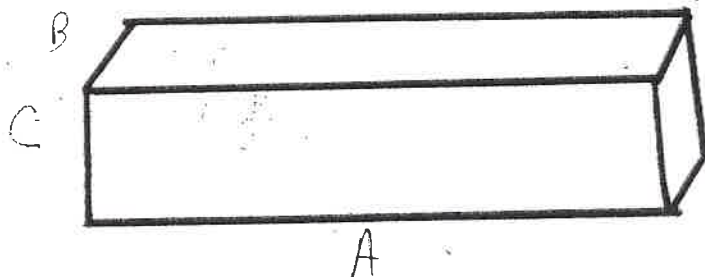
Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C. Row C. 17

SKETCH



Stone ID No.

84LE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

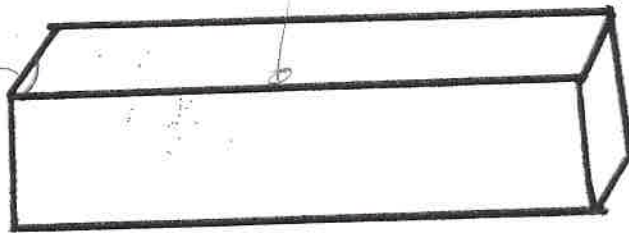
Date: 8-15-22

Stone Survey Sheet

Location Drawing
Storage Drawing

D4.02
Area C - Row D - 2

SKETCH



Stone ID No.

844W

Location	Length (in).	
Overall Dimensions		
A	66 3/4	
B	17 1/2	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on front-left corner tread
Pit on tread near center front

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / ☒ No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

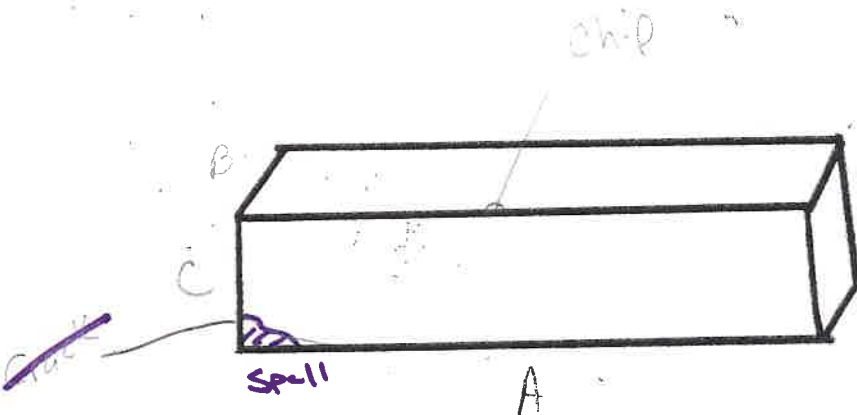
Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C - Row C - 18

SKETCH



Stone ID No.

84NE

Location	Length (in)	
Overall Dimensions:		
A	66 3/4	
B	17 1/2	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chip on rising left of center
Crack at bottom left corner of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes No (if yes, shade the area on the sketch)

Volume of Patching: 14 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cybers
(Print)

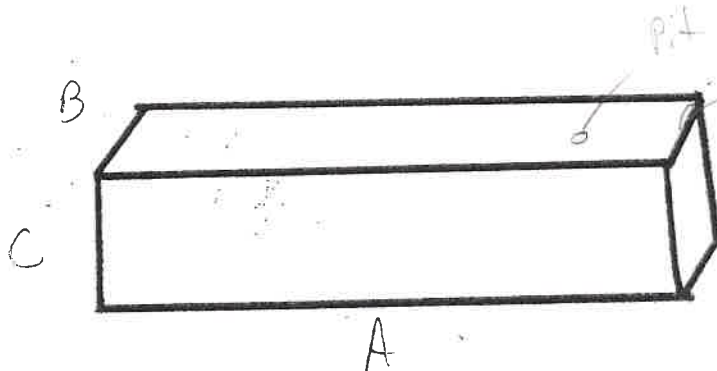
(Signed)

Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row D-1

SKETCH



Stone ID No.
84NW

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/2	
C	5 1/2	6 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall right side joint of tread
Pit on tread right side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson

(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative: Rex Cyphers

(Print)

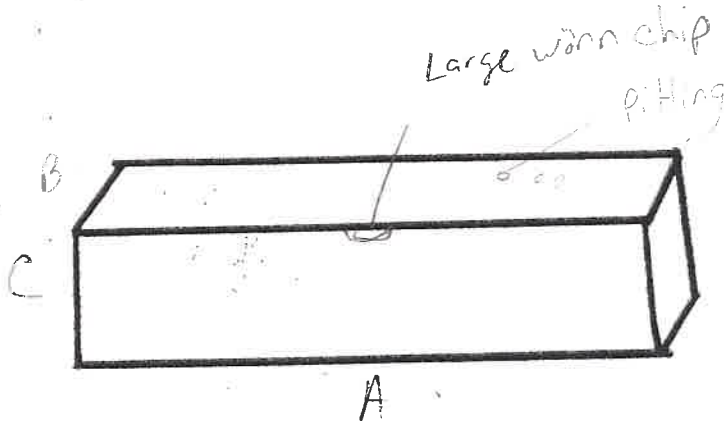
(Signed)

Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row C - 19

SKETCH



Stone ID No.
84Q

Location	Length (in)	
Overall Dimensions		
A	78 13/16	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Very weathered

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Rex Cyders
(Print)

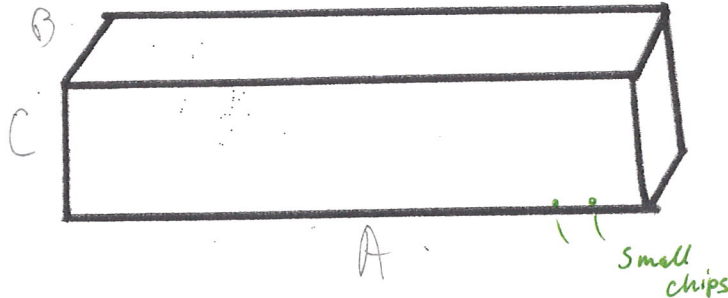
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Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing 20

SKETCH



Stone ID No.
85BE

Location	Length (in)	
Overall Dimensions		
A	32 1/8	
B	17 7/16	
C	5 9/16	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WEP/GSD Representative:

P Dillon
(Print)

(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Arm C-Row C-12

Stone ID No.

85BW

SKETCH



A. Chip Gum - Clean

Location	Length (in)	
Overall Dimensions		
A	25 1/4	
B	17 1/4	
C	5 1/2	2 3/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip on top left corner of riser
Chip lower right face of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair Clean

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

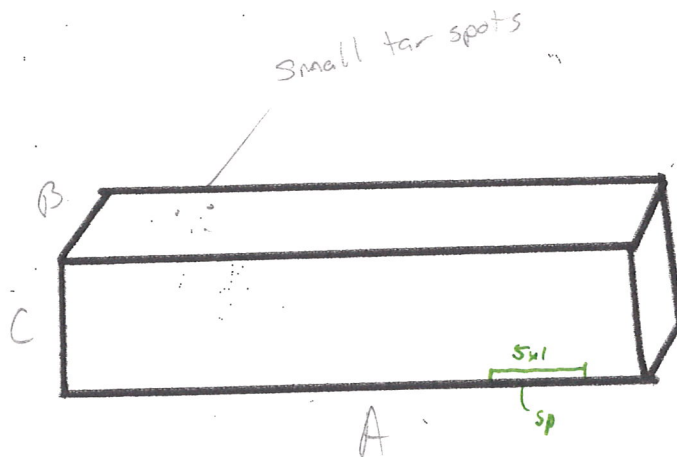
Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing 21

SKETCH



Stone ID No.
85DE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ⁵ / ₁₆	
C	5 ⁵ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small tar spots left side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

P. Dillon
(Print)

(Signed)

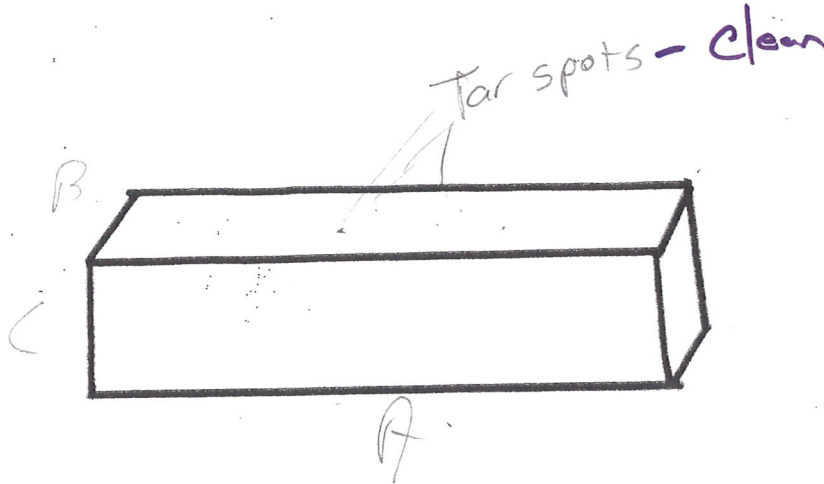
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C - Renc - 11

SKETCH



Stone ID No.

85DW

Location.	Length (in)	
Overall Dimensions:		
A	64 3/4	
B	17 1/8	
C	5 5/8	7 3/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small Tar spots across tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Clean
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date 8-10-22

WEP/GSD Representative:

Rex Cuppers
(Print)

(Signed)

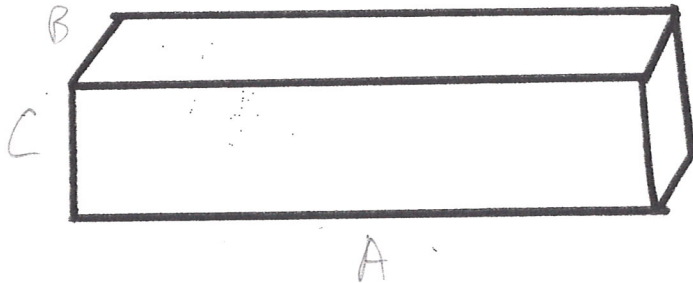
Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C - Row C - 1

SKETCH



Stone ID No.

85FE

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ⁵ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

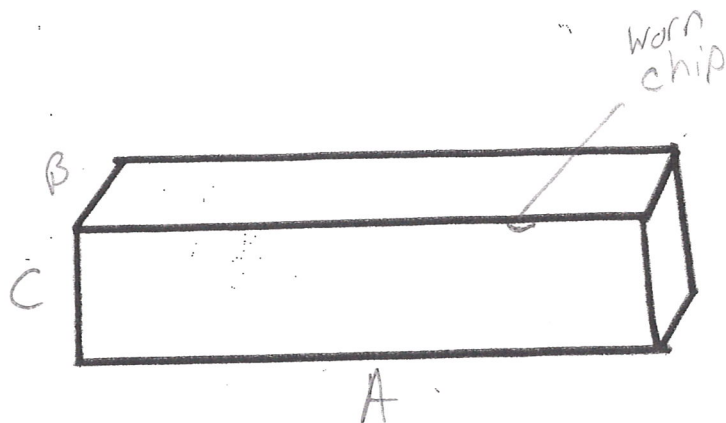
Date: 8-15-22

Stone Survey Sheet

Location Drawing 04.02

Storage Drawing Area C - Row C - 10

SKETCH



Stone ID No.

85FW

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 3/8	
C	5 1/2	7 13/16
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small worn chip on right side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphus

(Print)

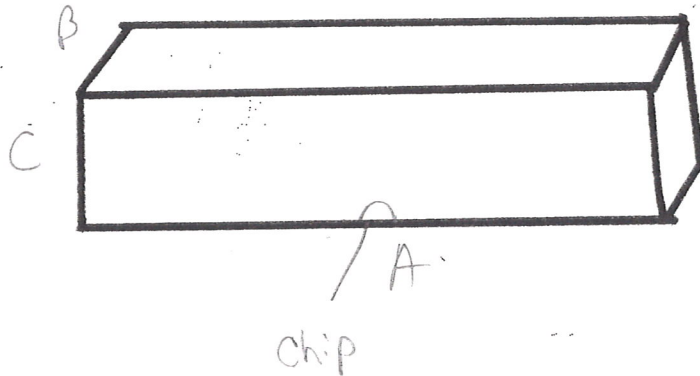
(Signed)

Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row C - 2

SKETCH



Stone ID No.
85HE

Location	Length (in)	
Overall Dimensions		
A	66 ¹³ / ₁₆	
B	17 ¹ / ₂	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip near center of bed joint on riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

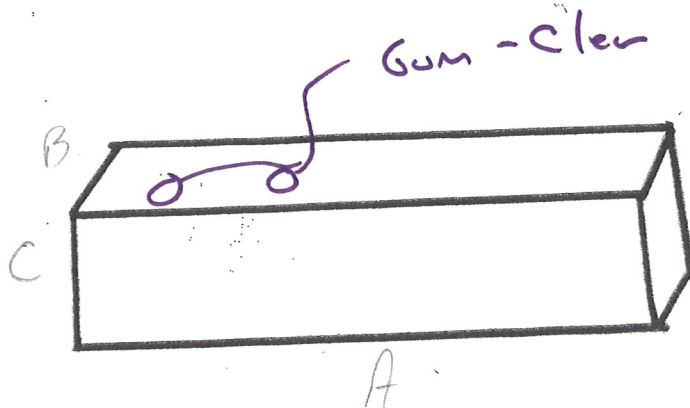
(Signed)

Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row C - 9

SKETCH



Stone ID No.
85HW

Location	Length (in):	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Clear
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

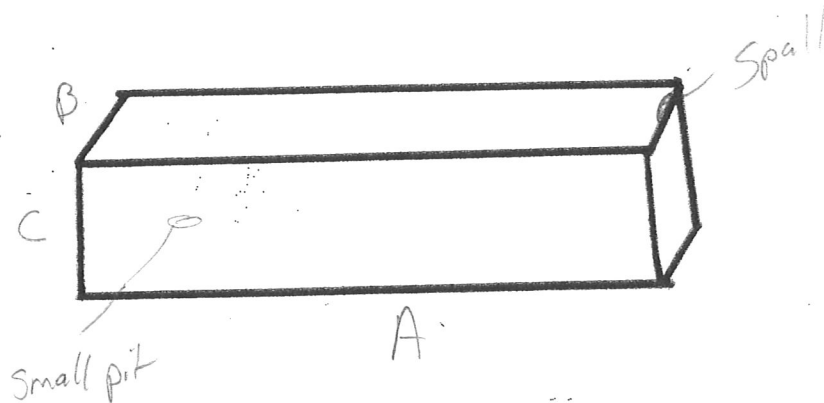
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(Signed)

Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row C - 3

SKETCH



Stone ID No.
85KE

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₂	
C	59 ¹ / ₄	7
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small pit left side face of riser
Spall right side joint of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

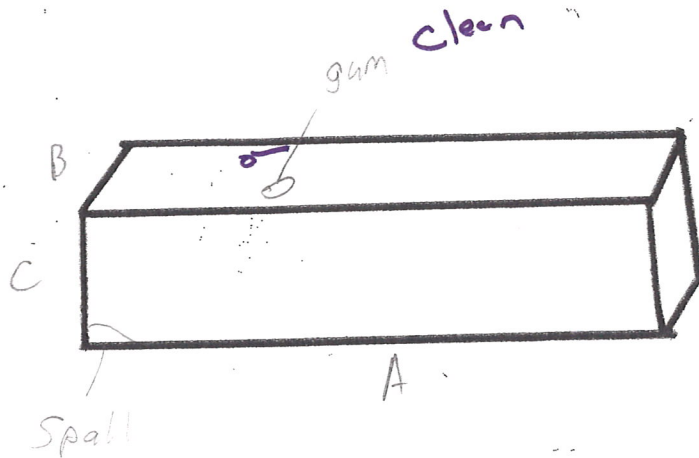
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-10-22

WDP/GSD Representative: R (Print) _____ (Signed) Date: 8/25/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Am-C-RWC-8

SKETCH



Stone ID No.
85 KW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ¹ / ₄	
C	5 ¹ / ₂	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall lower left corner of riser
gum on left side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Clean
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

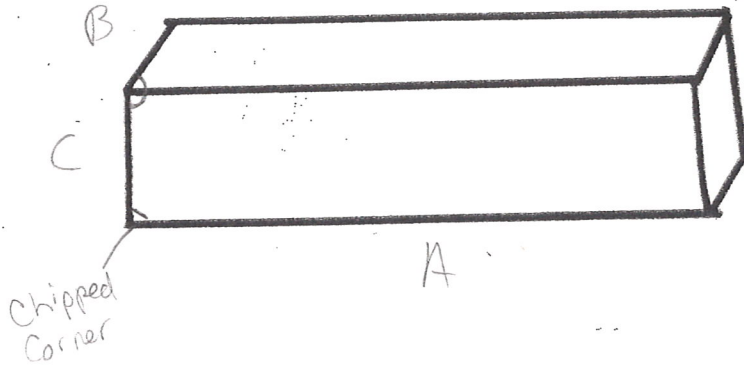
(Signed)

Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row C - 4

SKETCH



Stone ID No.
85ME

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 1/4	
C	5 1/2	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner lower left of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? ☒ Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

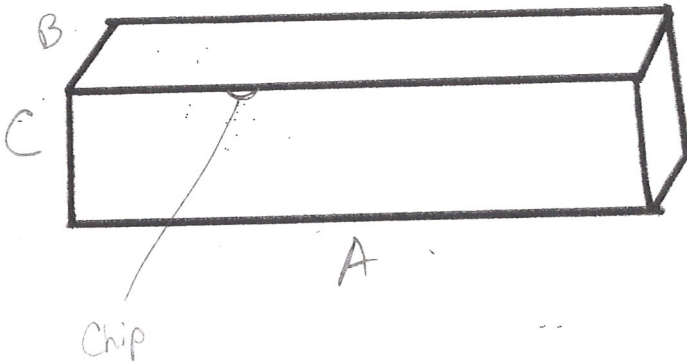
Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C - Row C - 7

SKETCH



Stone ID No.
85MW

Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ¹ / ₈	
C	5 ⁵ / ₈	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chip left side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

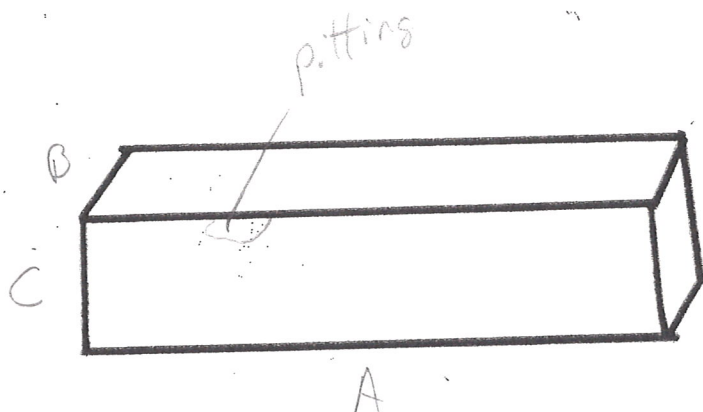
(Signed)

Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C - Row C - 5

SKETCH



Stone ID No.
85PE

Location	Length (in)	
Overall Dimensions		
A	72 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Weathered overall
Pitting on face of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

(Signed)

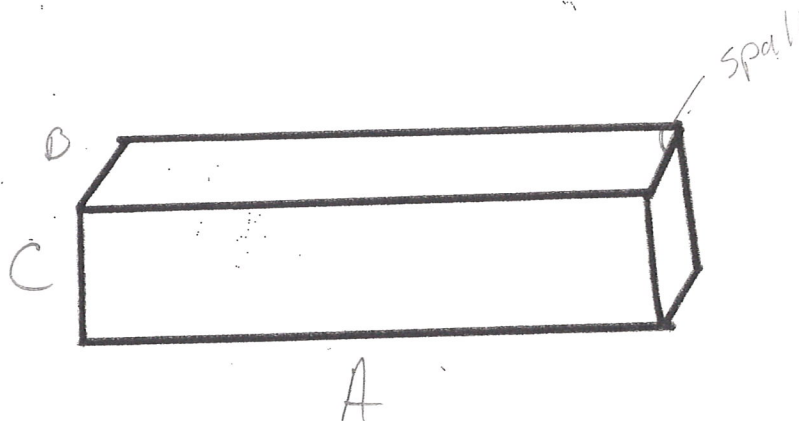
Date: 8-15-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Alloc C Row C. 6

SKETCH



Stone ID No.

85PW

Location	Length (in)	
Overall Dimensions		
A	72 13/16	
B	17	
C	5 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Overall very weathered/worn
Spall back right corner of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Pitching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

Rex Cyphers
(Print)

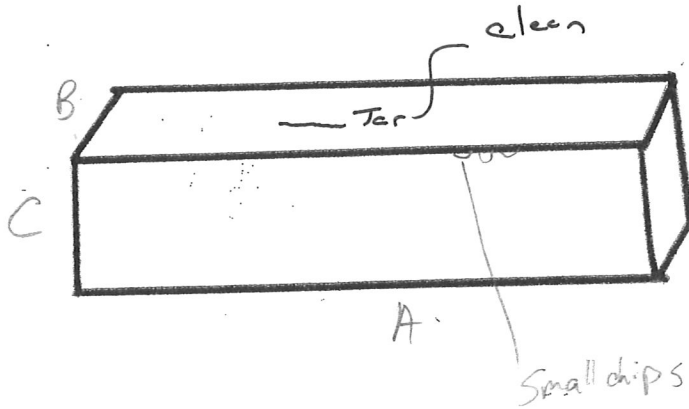
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Date: 8-5-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C1B17

SKETCH



Stone ID No.

86CE

Location	Length (in)	
Overall Dimensions		
A	66 1/2	
B	17 1/8	
C	5 1/2	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chips on right side of nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

R Pyphers
(Print)

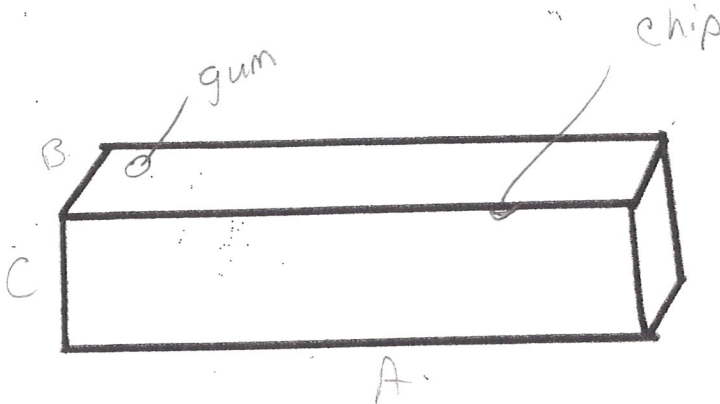
(Signed)

Date: 8-10-22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing _____ 19

SKETCH



Stone ID No.
86CW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂ 7	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

gum on back Left of tread
Chip on nosing right side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

P. Dillon
(Print)

(Signed)

Date: 8/23/22

Stone Survey Sheet

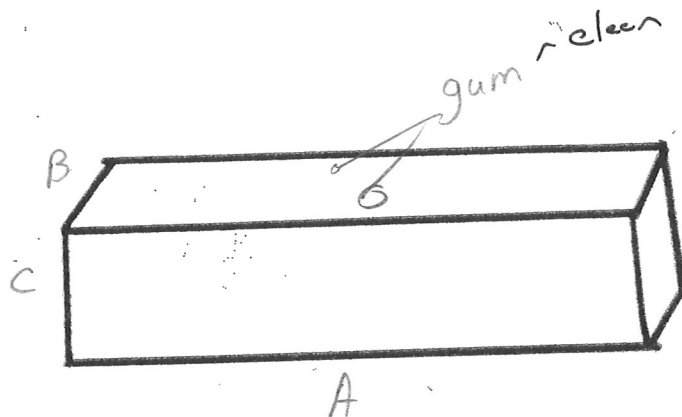
Location Drawing

04.02

Storage Drawing

Area C - Row B - 8

SKETCH



Stone ID No.

8WEE

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/8	
C	5 3/8	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Gum on Tread slightly right of center

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair: _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

R Pyphers
(Print)

(Signed)

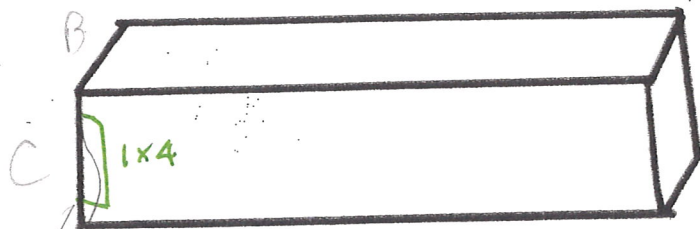
Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____ 14

SKETCH



Large chip

Stone ID No.

86EW

Location	Length (in)	
Overall Dimensions		
A	65 ⁷ / ₈	
B	16 ³ / ₄	
C	5 ⁵ / ₈	7 ³ / ₄
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large chip left head joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 4 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-10-22

WDP/GSD Representative:

P Dillon
(Print)

[Signature]
(Signed)

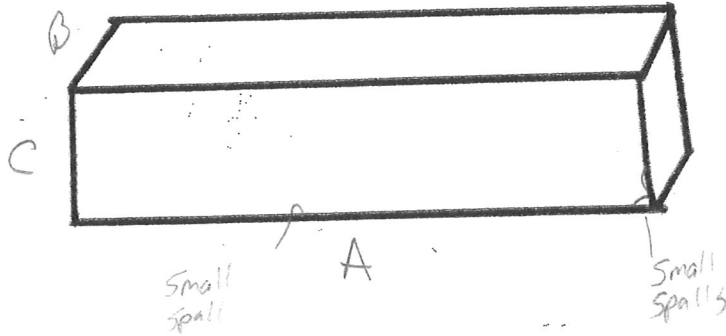
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
 Storage Drawing Row B
Area C 9
 SKETCH

Stone ID No.

860GE



Location	Length (in)	
Overall Dimensions		
A	66 ⁷ / ₈	
B	17 ³ / ₈	15
C	5 ¹ / ₂	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall left of center on bed joint of riser
 2 small spalls lower right corner of riser

• Stone cleaning recommended: Minor / Moderate to heavy
 • Type of repair _____
 • Patching required? Yes / No (If yes, shade the area on the sketch)
 • Volume of Patching: _____ [in^3]
 To be documented on ground after handling and storage
 • Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

R Cyphers
 (Print)

(Signed)

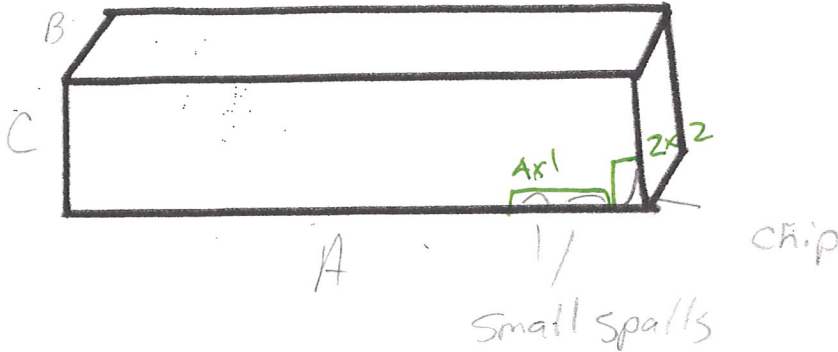
Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing 17

SKETCH



Stone ID No.

80GW

Location	Length (in)	
Overall Dimensions		
A	66 1/2	
B	17 1/4	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner on lower right of riser
Small spalls on right side of riser bed joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-10-22

WEP/GSD Representative:

P Dillan
(Print)

[Signature]
(Signed)

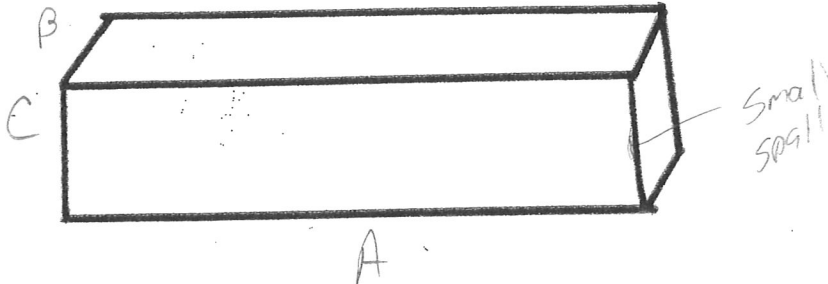
Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C - Rows B-10

SKETCH



Stone ID No.

86JE

Location	Length (in)	
Overall Dimensions:		
A	46 ⁷ / ₈	
B	17 ³ / ₈	15
C	5 ⁵ / ₈	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small Spall on right head joint of riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

R Cyphers
(Print)

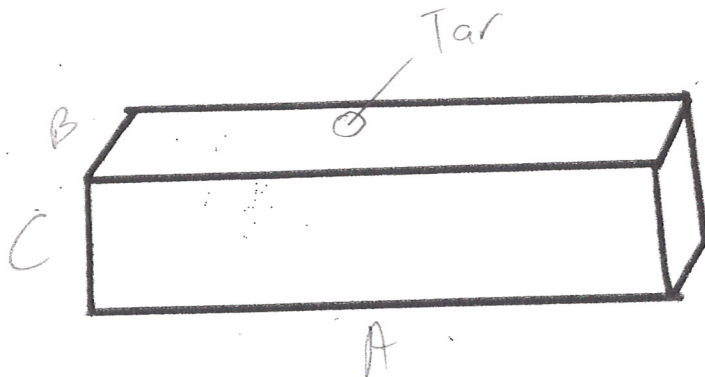
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Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.

86JW

Location	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17 3/8	
C	5 7/16	8 1/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Tar spot on Tread Back left of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

P Dillon
(Print)

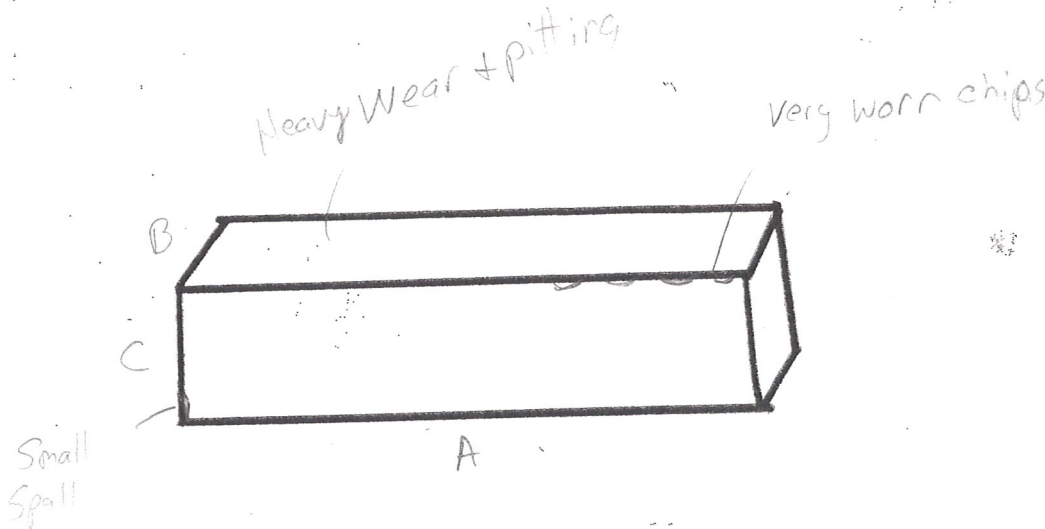
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Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/B/11

SKETCH



Stone ID No.
86LE

Location	Length (in)	
Overall Dimensions:		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Heavy wear + pitting overall
Small spall lower right corner of riser
Worn chipping along nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

P Dillon
(Print)

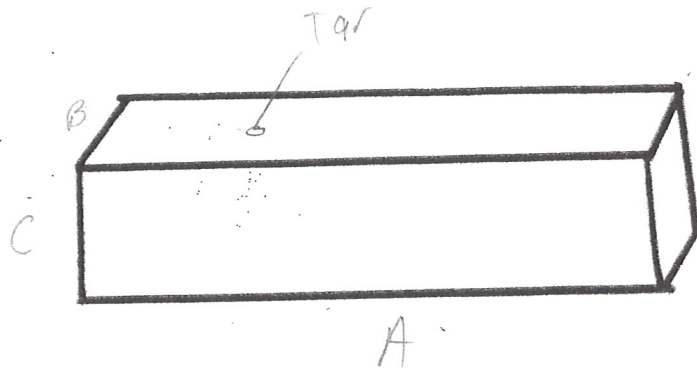
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____ 15

SKETCH



Stone ID No.
86LW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	7 ³ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Tar spot on left side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

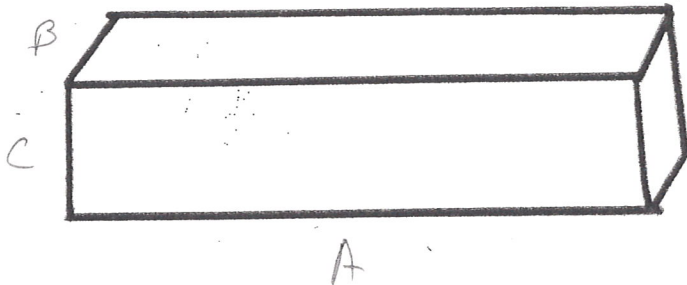
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 8-10-22

WDP/GSD Representative: P Dillon (Print) [Signature] (Signed) Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/B/12

SKETCH



Stone ID No.
86NE

Location	Length (in)	
Overall Dimensions		
A	67	
B	17 ³ / ₈	
C	5 ¹ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Heavy wearing and pitting overall very weathered

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area B Row B

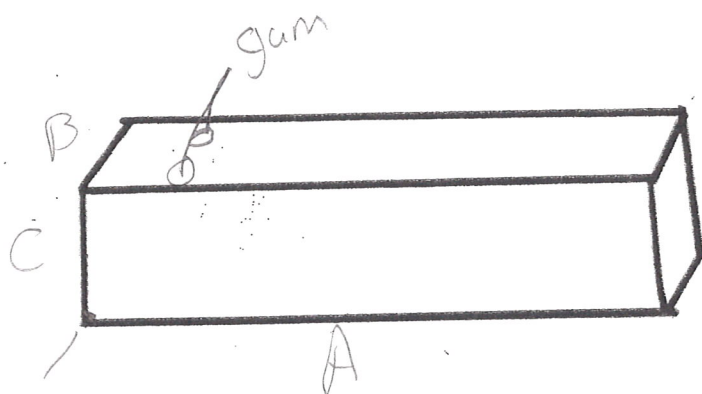
14

C

SKETCH

Stone ID No.

80NW



Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	16 7/8	
C	5 1/2	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

P Dillen
(Print)

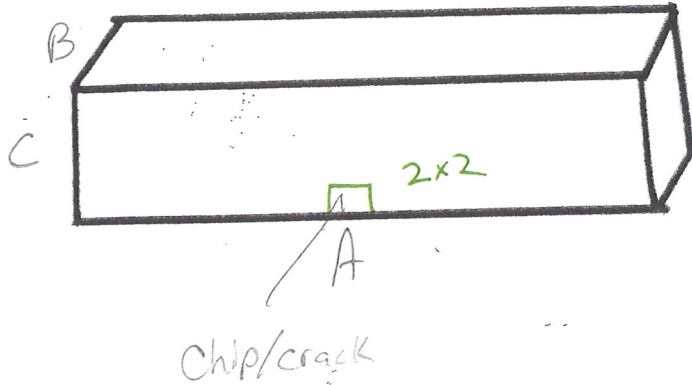
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing 13

SKETCH



Stone ID No.

86Q

Location	Length (in)	
Overall Dimensions		
A	78 ⁷ / ₈	
B	17 ¹ / ₄	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Slight weathering overall

Chip/crack near center of bed joint on riser

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 4 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

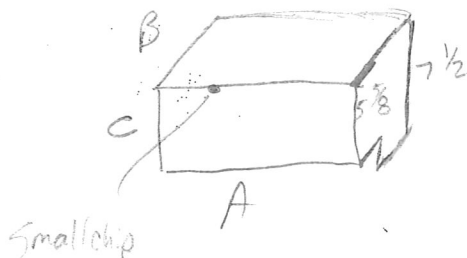
Date: 8/23/22

Stone Survey Sheet

Location Drawing 04.02

Storage Drawing Area Row A Stone 14

SKETCH



Stone ID No.

87BE

Location	Length (in)	
Overall Dimensions:		
A	32 ¹ / ₄	
B	16 ³ / ₄	
C	5 ⁵ / ₈ , 7 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Small chip on nosing left of center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

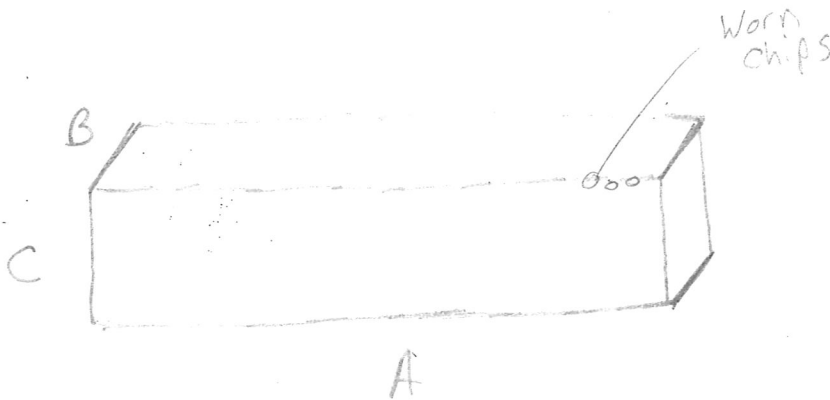
(Signed)

Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/B/C

SKETCH



Stone ID No.

87BW

Location	Length (in)	
Overall Dimensions:		
A	32	
B	17 ¹ / ₄	
C	5 ⁵ / ₈	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

3 Worn chips right side of nosing near corner

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-9-22

WDP/GSD Representative:

R. Ryphers
(Print)

[Signature]
(Signed)

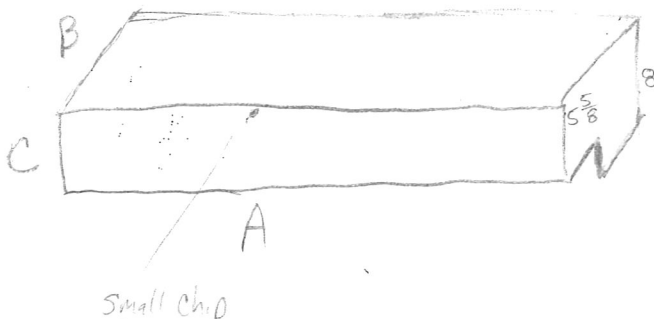
Date: 8-10-23

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C Row A Stone 15

SKETCH



Stone ID No.

87 DE

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	16 ³ / ₄	
C	5 ⁷ / ₈ , 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Small chip on nosing Left of center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair

• Patching required? Yes / ☒ No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes ☒ No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

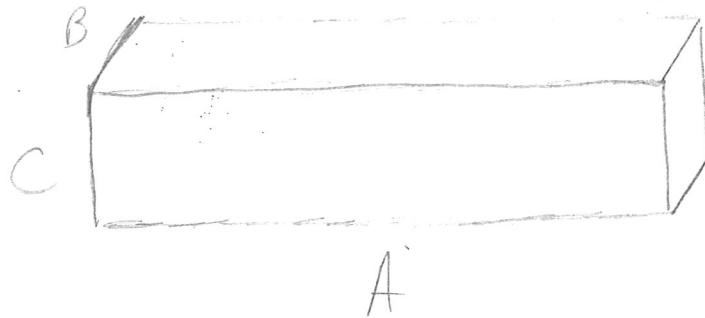
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Date: 8/10/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing C/B/5

SKETCH



Stone ID No.

87 DW

Location	Length (in)	
Overall Dimensions		
A	65 1/8	
B	17 3/8	
C	5 1/2	7 5/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

R cyphers
(Print)

(Signed)

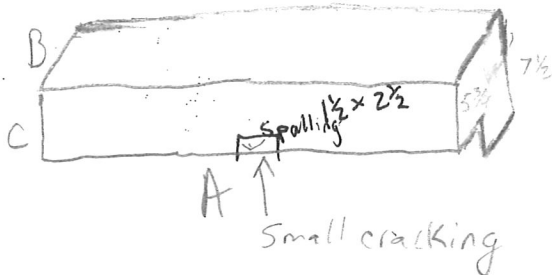
Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing Area C Row A Stone 16

SKETCH



Stone ID No.

87FE

Location	Length (in)	
Overall Dimensions		
A	67	
B	16 ³ / ₄	
C	5 ³ / ₄	7 ¹ / ₂
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Small cracking near center of bed joint

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

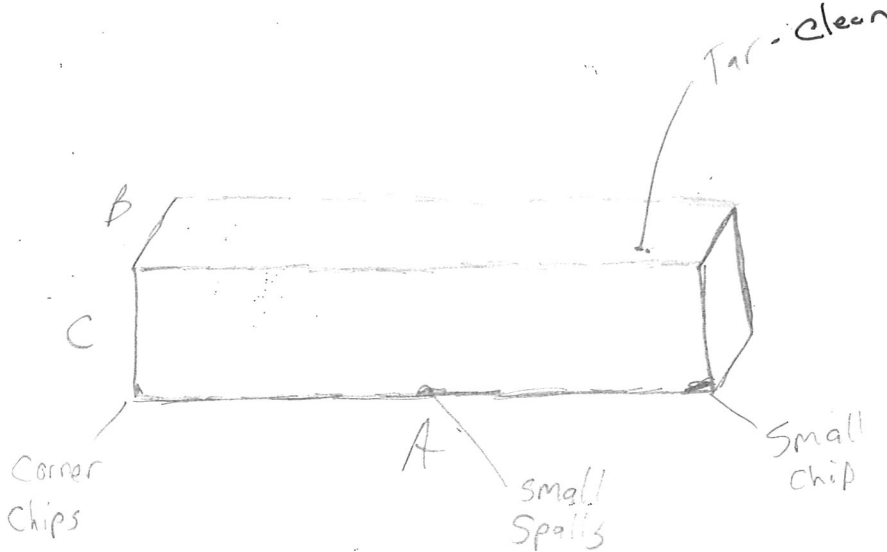
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Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/B/4

SKETCH



Stone ID No.

87FW

Location	Length (in)	
Overall Dimensions:		
A	66 ⁷ / ₈	
B	17 ¹ / ₂	
C	5 ¹ / ₂	7 ⁷ / ₈
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small chip on lower left corner of riser
Small spalls near center of bed joint on riser
Small tar spot on right side of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

Reyphers
(Print)

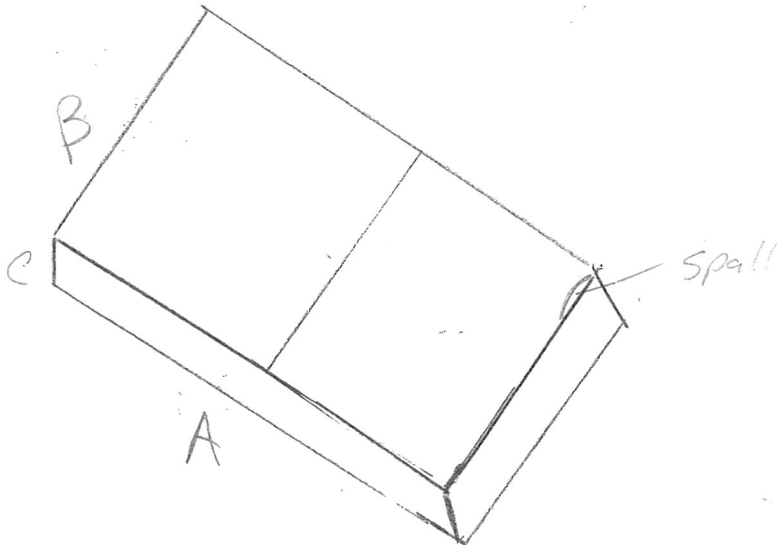
(Signed)

Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/A/17

SKETCH



Stone ID No.

87 HE

Location	Length (in)	
Overall Dimensions:		
A	67	
B	17	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall top Left side of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

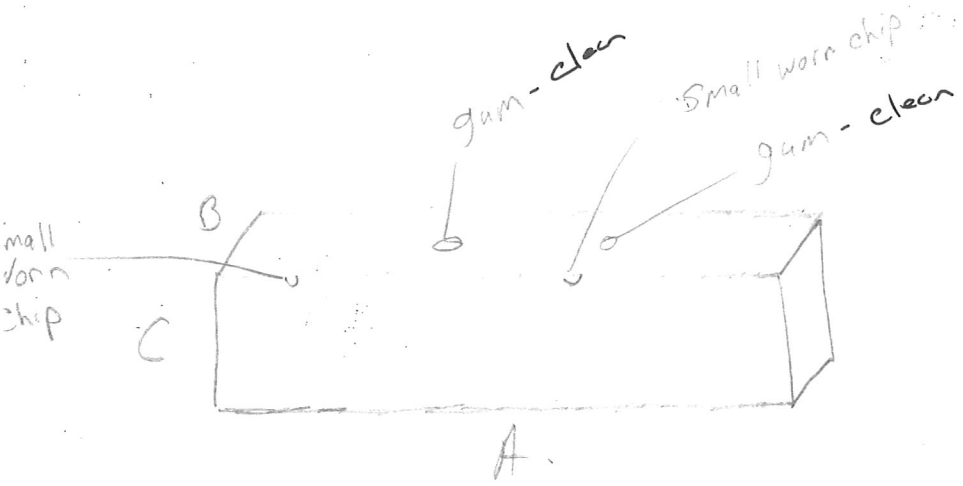
[Signature]
(Signed)

Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/B/3

SKETCH



Stone ID No.

87 HW

Location.	Length (in)	
Overall Dimensions		
A	66 7/8	
B	17	
C	5 1/2	7 3/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 small worn chips on nosing; left side + right of center
2 spots of gum on tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

Reyphers
(Print)

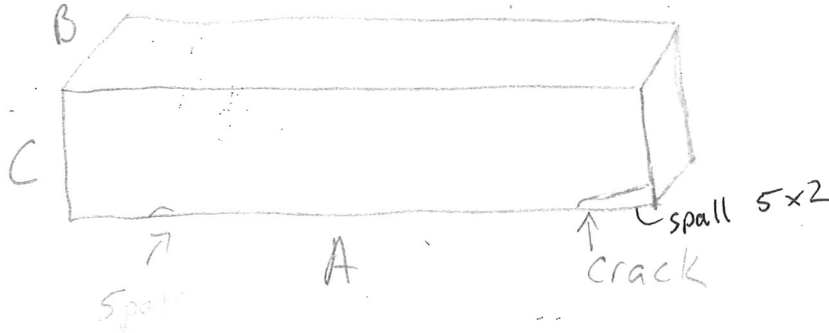
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Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/A/18

SKETCH



Stone ID No.

87 KE

Location	Length (in)	
Overall Dimensions:		
A	66 7/8	
B	17 1/4	
C	5 2/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small spall on bed joint on left side of riser
Crack on right side corner of riser

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P. Dillon
(Print)

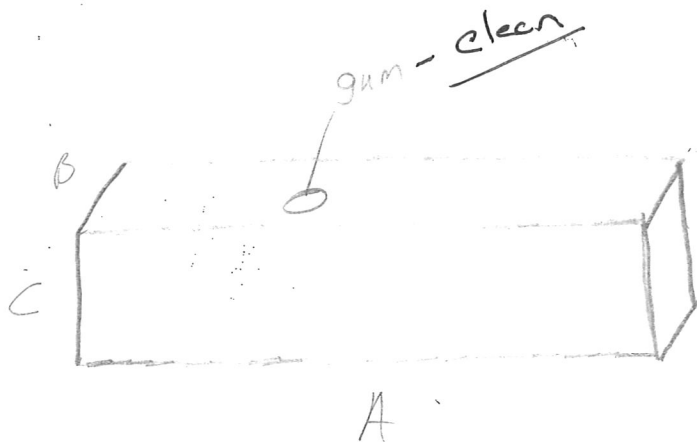
(Signed)

Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/B/2

SKETCH



Stone ID No.

87KW

Location	Length (in)	
Overall Dimensions		
A	66 ³ / ₄	
B	17 ³ / ₈	
C	5 ¹ / ₂	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

gum on tread left of center

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

R Cyphers
(Print)

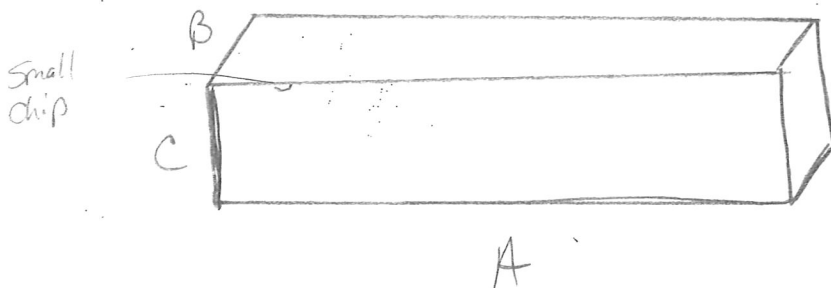
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Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C/A/19

SKETCH



Stone ID No.

87ME

Location	Length (in)	
Overall Dimensions		
A	66 3/4	
B	17 1/4	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chip on left side of nosing

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

R Cyphers
(Print)

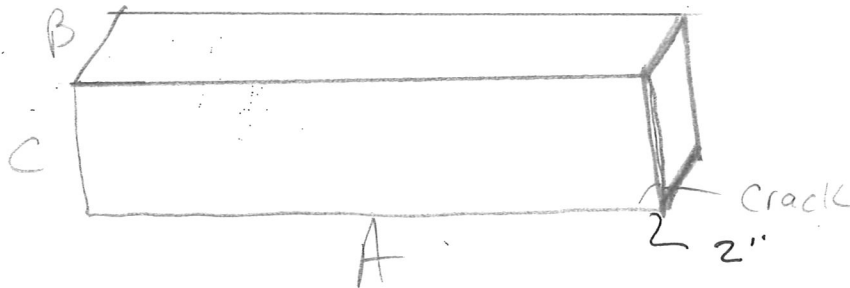
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Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing C / A / 20

SKETCH



Stone ID No.

87PE

Location	Length (in)	
Overall Dimensions:		
A	72 3/8	
B	17 3/8	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack right corner of riser bed joint

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair crack 2" x 2" crack
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

R Cyphers
(Print)

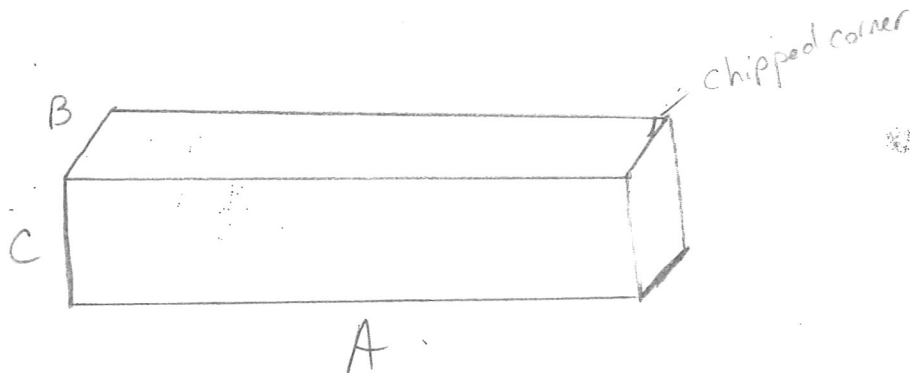
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Date: 8.10.22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing CIA 121

SKETCH



Stone ID No.

87PW

Location	Length (in)	
Overall Dimensions:		
A	72 ⁷ / ₈	
B	17 ³ / ₈	
C	5 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chipped back right corner of Tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building-reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

LCyphus
(Print)

(Signed)

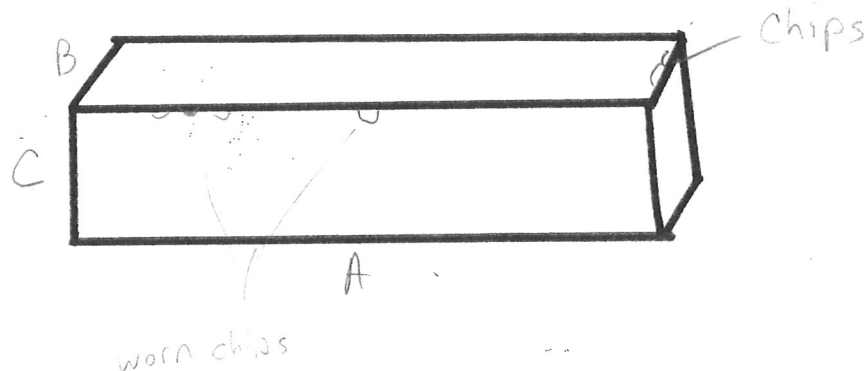
Date: 8-10-22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

88CE

Location	Length (in)	
Overall Dimensions:		
A	59 3/4	
B	15 1/2	
C	5 5/8 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Worn chips along nosing
Chips on right side joint of tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-8-22

WDP/GSD Representative:

[Signature]
(Print)

P Dillon
(Signed)

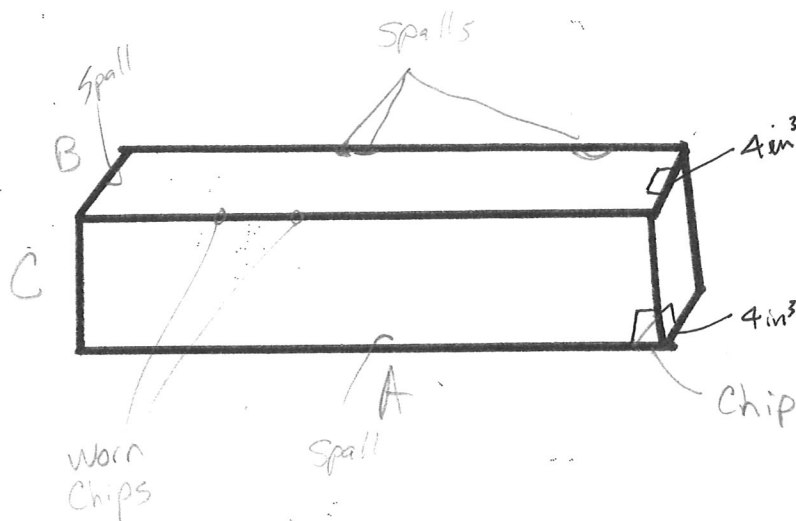
Date: 8/9/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

88CW

Location	Length (in)	
Overall Dimensions:		
A	59 3/4	58 1/2
B	15 1/2	
C	5 1/2	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall of left joint of tread
 Small spalls on back of tread
 2 worn chips on nosing; left side
 Small spalls near center of bed joint on riser

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

P. Dillon
 (Print)

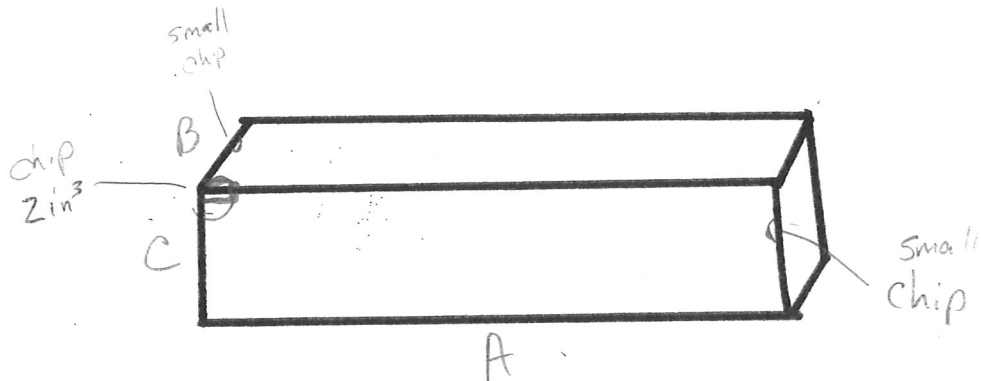
(Signed)

Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.

88EE

Location	Length (in)	
Overall Dimensions:		
A	75	
B	11	
C	5 3/4 7 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small chip left side joint of tread
chip left side of nosing
Small chip right side joint of riser

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

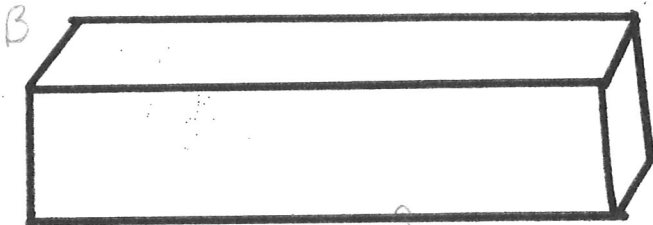
Date: 8/9/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



A Small worn spill

Stone ID No.

88EW

Location.	Length (in)	
Overall Dimensions:		
A	75 1/8	
B	11	
C	5 5/8	7 7/8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small worn spill riser bed joint right of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

P. Dillon
(Print)

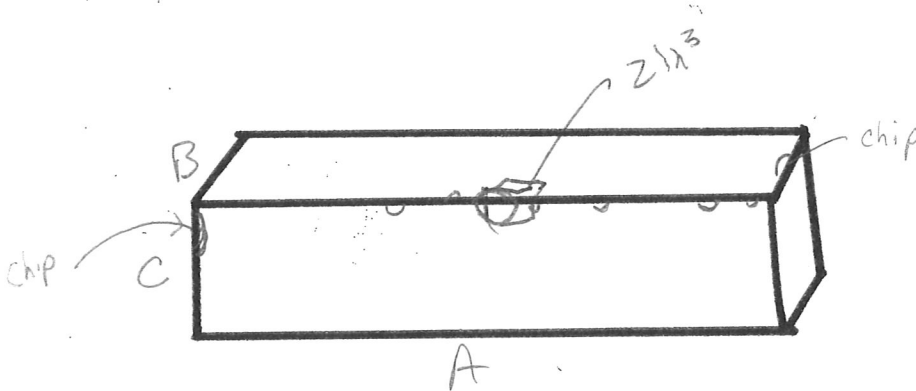
(Signed)

Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.

88GE

Location	Length (in)	
Overall Dimensions		
A	58 1/2	
B	15 3/8	
C	5 3/4, 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

One large chip right side of nosing
6 small chips along nosing
small chip on left edge of riser
small chip right edge of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair patch
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

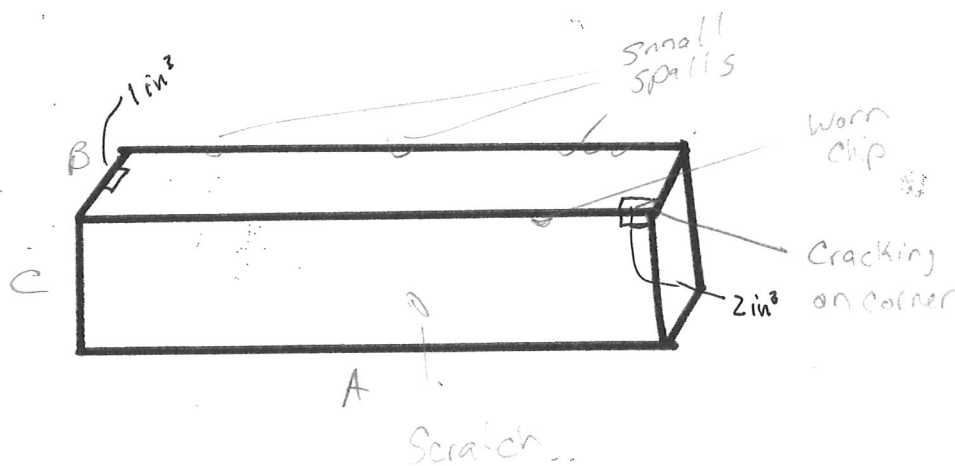
(Signed)

Date: 8/9/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
88GW

Location	Length (in)	
Overall Dimensions:		
A	58 7/8	
B	15 1/2	
C	5 3/4	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Several small spalls along back side of tread
Worn chip on nosing right side
Cracking on top right corner of riser
Small scratch on face of riser

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? ☒ Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes ☒ No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

P. Dillon
(Print)

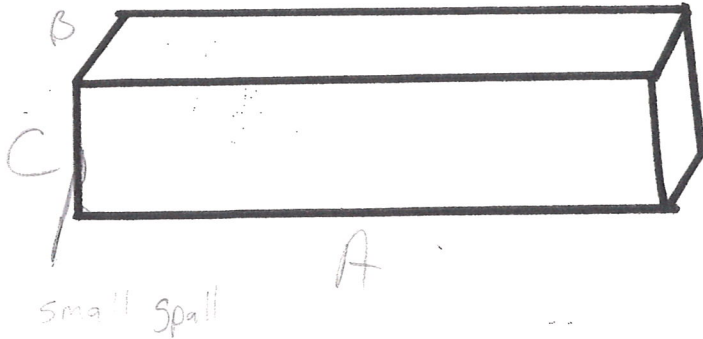
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Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing Area C, Row A, Stone 4

SKETCH



Stone ID No.

88JE

Location	Length (in)	
Overall Dimensions:		
A	75 1/4	
B	10 7/8	
C	5 5/8	7 3/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

small spall left head joint of riser

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

P Dillon
(Signed)

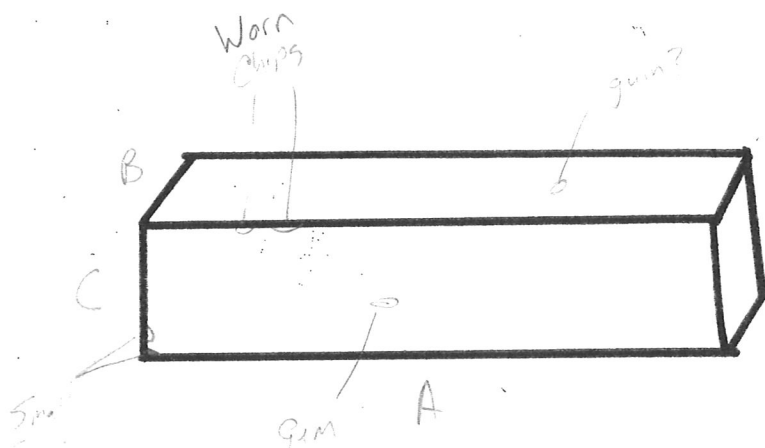
Date: 8/9/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

88JW

Location	Length (in)	
Overall Dimensions:		
A	75 1/8	
B	11 1/8	
C	55 3/8	8
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls on lower left head joint and corner of riser
small spot of gun on face of riser and right side of tread
Worn chips on left side of nosing

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-9-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

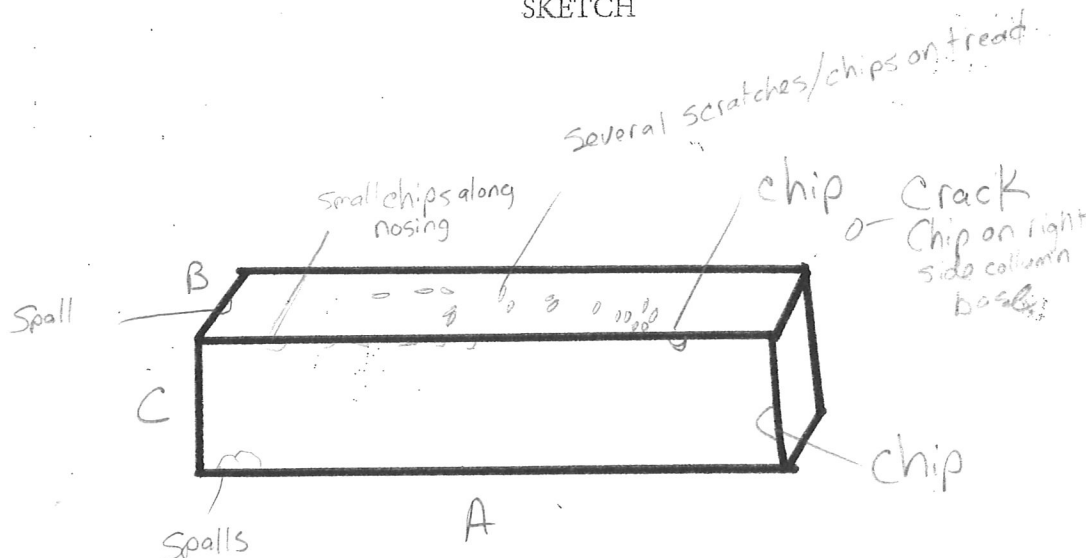
Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

Stone ID No.
88LE

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	58 3/4	
B	15 1/2	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on left joint of tread
2 spalls on left side bed joint of riser
Small chips along left side of nosing
Scratching/chips across tread
Small chip right side of nosing
Chip on right side riser head joint
Crack/Chip on right side on column base

Stone cleaning recommended: Minor Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: _____

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative: _____

B Dillon
(Print)

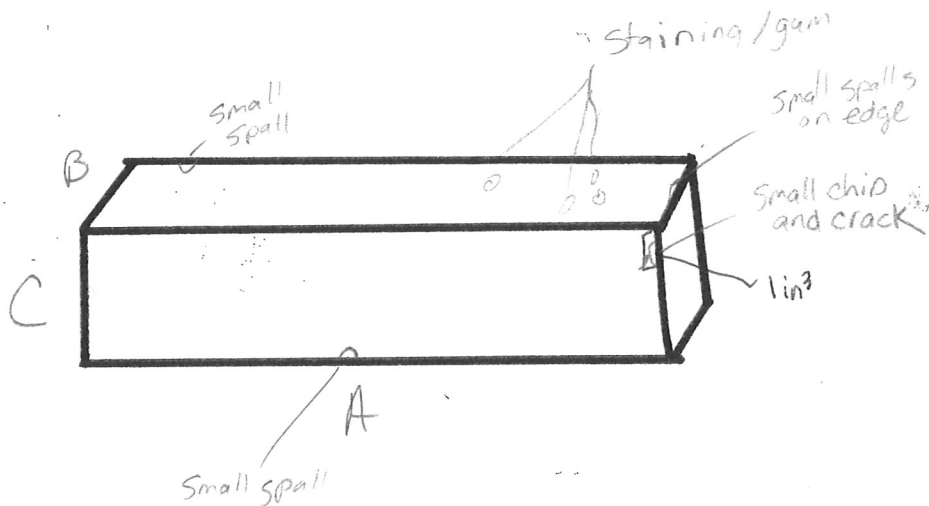
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Date: 8/9/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing _____

SKETCH



Stone ID No.
88LW

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall center of bed joint of riser
Small chip and crack right head joint of riser
Small spall left side of back joint of tread
Small spalls right side joint of tread
Stains/gum on right side of tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P. Dillon
(Print)

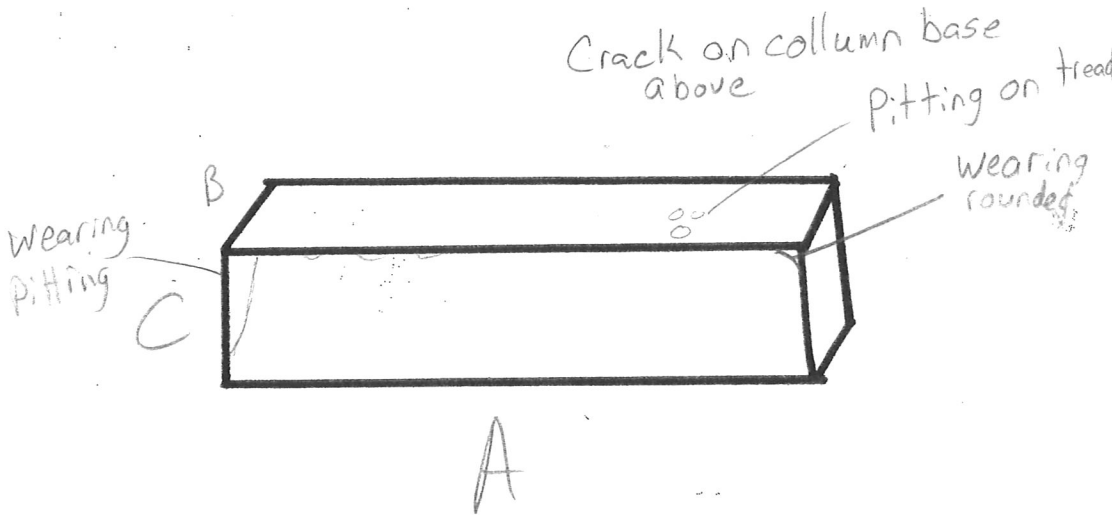
(Signed)

Date: 8/9/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
88NE

Location	Length (in)	
Overall Dimensions:		
A	75	
B	9 1/2	
C	5 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Wearing; pitting (possible previous chip) on top left corner of riser
Wearing; rounded top right corner of riser
Pitting right side of tread
* Crack on base of column above 88NE; see additional photo

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P. Dillon
(Print)

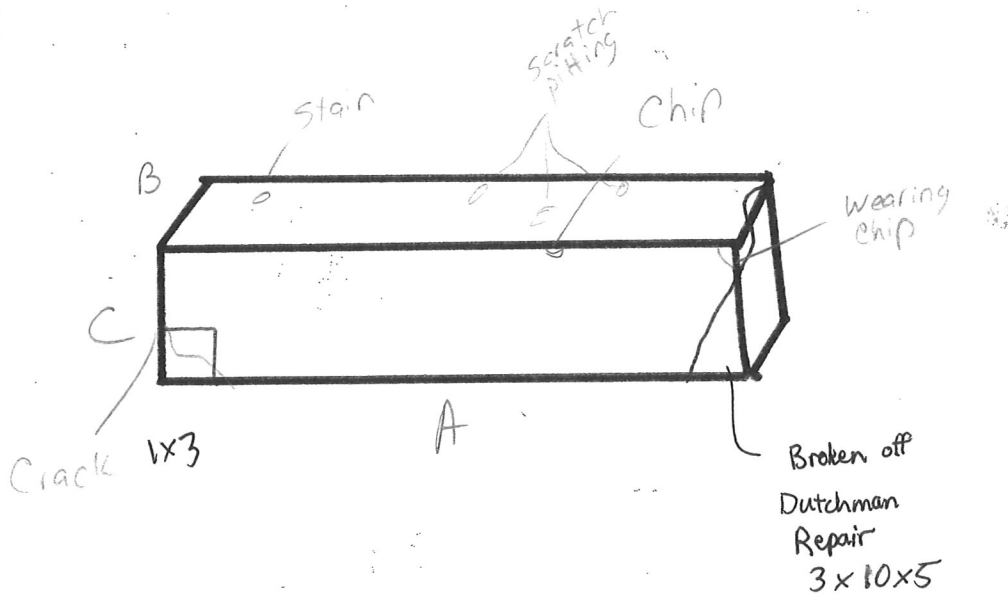
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Date: 8/9/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
88NW

Location	Length (in)	
Overall Dimensions:		
A	75 1/8	
B	9 5/8	
C	5 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack on bottom left corner of riser
Small chip on nosing right of center
Chip/Wearing top corner right side of riser
Spots of scratches/pitting center/right of center on tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 3 [in³] Dutchman: 150 in³

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: _____

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative: _____

P Dillon
(Print)

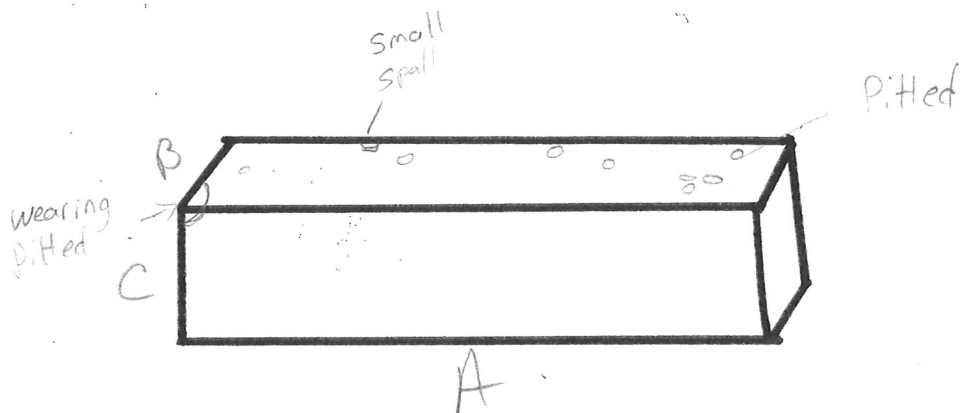
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Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.

88Q

Location	Length (in)	
Overall Dimensions:		
A	70 1/2	
B	15 3/8	
C	5 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Wearing, Pitted bottom Left corner tread
Small spall back joint of tread
Heavy wearing and pitting all along tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

Date: 8/9/22

Limestone Portico Pavers

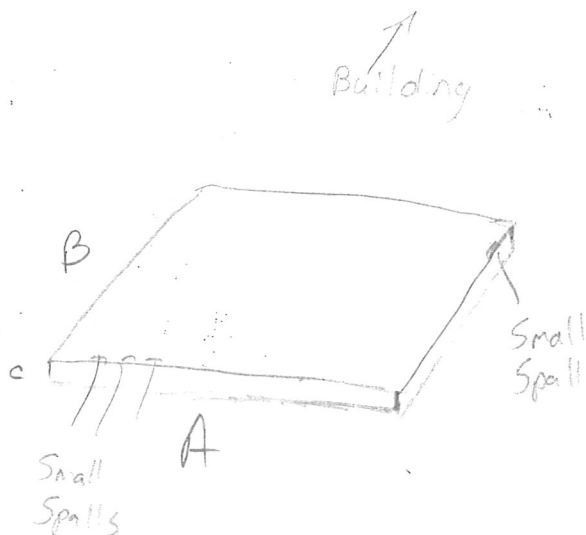
Rows 91-95

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

91CE

Location	Length (in)	
Overall Dimensions:		
A	58 1/8	
B	67	
C	4 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls left side stair joint
Small spall right side column joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-10-22

WDP/GSD Representative:

(Print)

(Signed)

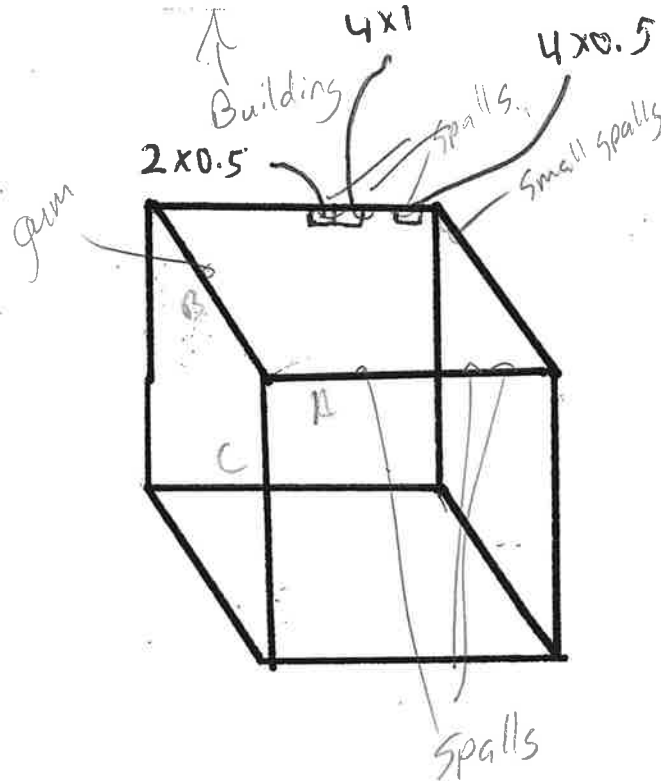
Date: _____

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

Stone ID No.
91CW

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	58 1/4	
B	67 1/4	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls along south joint
Spalls on west joint near north corner
Spalls on north joint near west corner
gum spot on east joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0.7 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

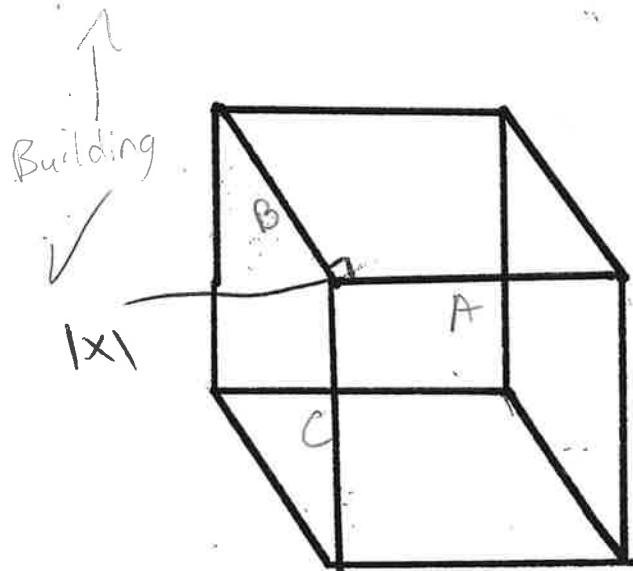
Date: 9/10/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

91GE

Location	Length (in)	
Overall Dimensions:		
A	58 3/4	
B	58 1/2	
C	3 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-25-22

WDP/GSD Representative:

Chris Johnson
(Print)

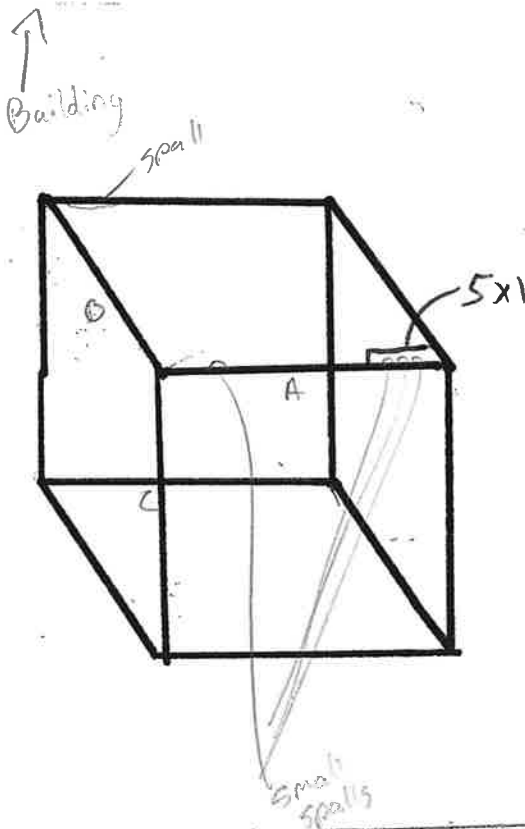
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(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing 04.02
Storage Drawing _____

SKETCH



Stone ID No.

91GW

Location	Length (in)	
Overall Dimensions:		
A	58 5/8	
B	67 1/8	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on north joint near east corner
Several spalls on south joint near west corner
Spall on south joint east side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0.5 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

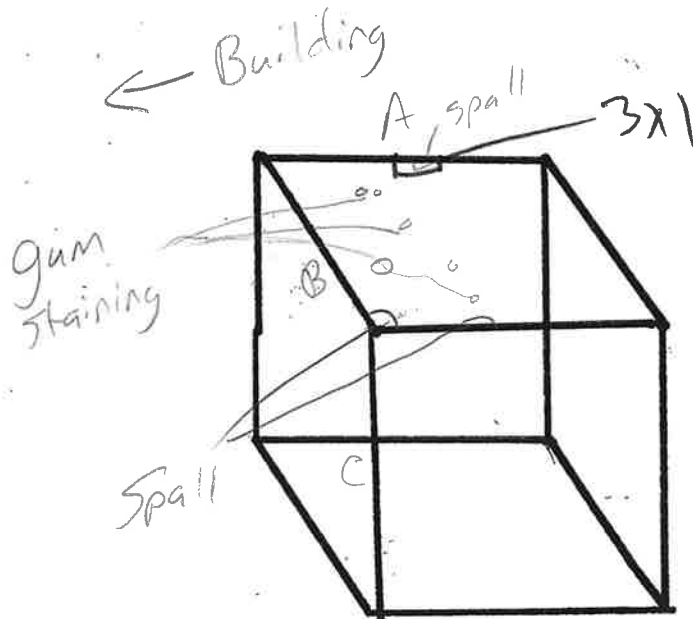
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.

91LE

Location	Length (in)	
Overall Dimensions:		
A	67 3/4	
B	58 1/2	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on Back left corner
Spall on left joint
Spall on right joint
Gum and staining across tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 3 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-25-22

WDP/GSD Representative:

Chris Uhman
(Print)

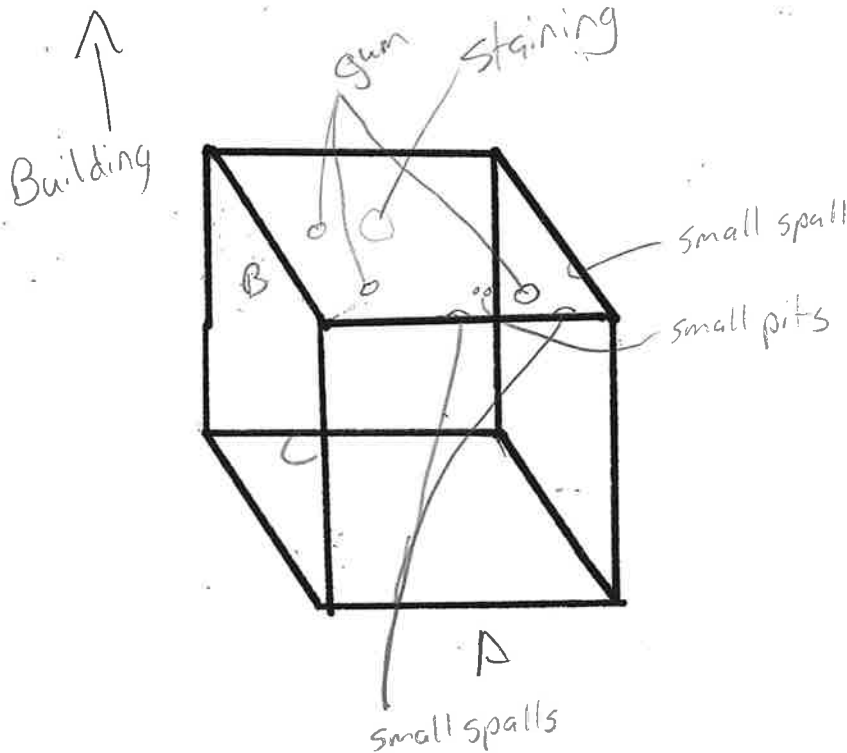
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Date: 8/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
91LW

Location	Length (in)	
Overall Dimensions:		
A	58 1/2	
B	67 3/8	
C	4 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

3 gum spots + several staining spots across tread
2 small pits south west of center
2 small spalls south joint
small spall west joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lehman
(Print)

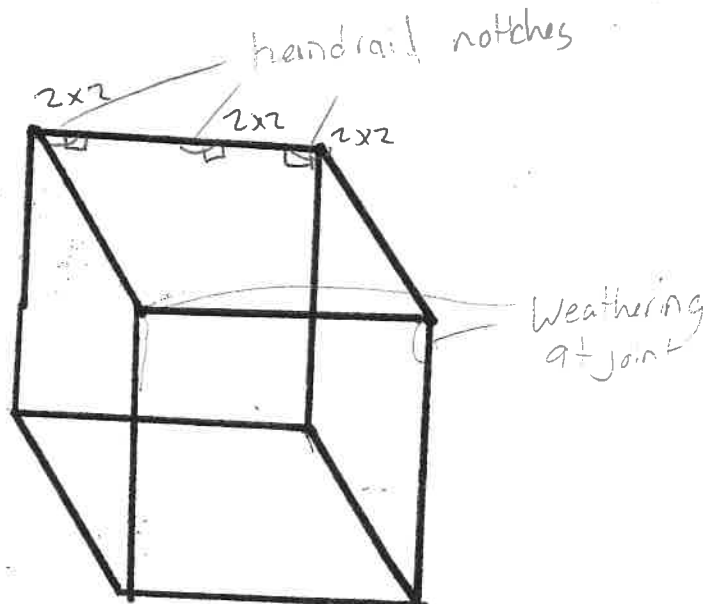
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
92AE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Weathering at joint on top of face on both sides
3 handrail notches on west joint of top

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

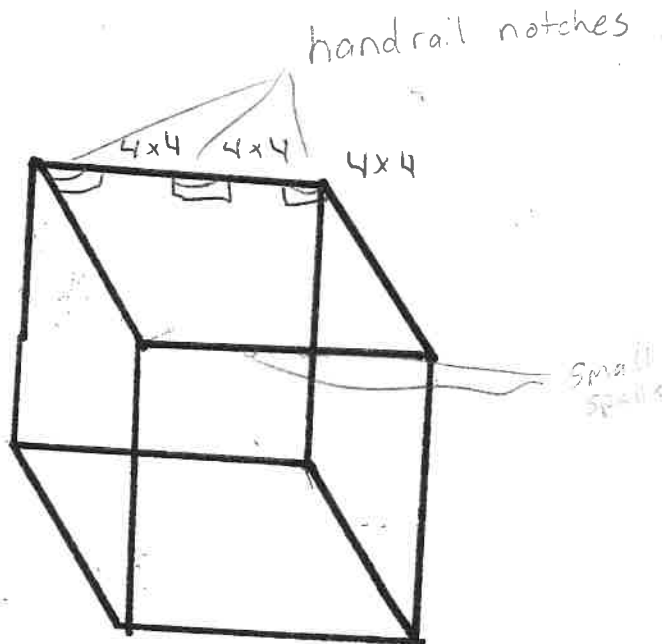
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
92AW

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

3 handrail notches on east joint of top
2 small spalls on nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4.8 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/23/22

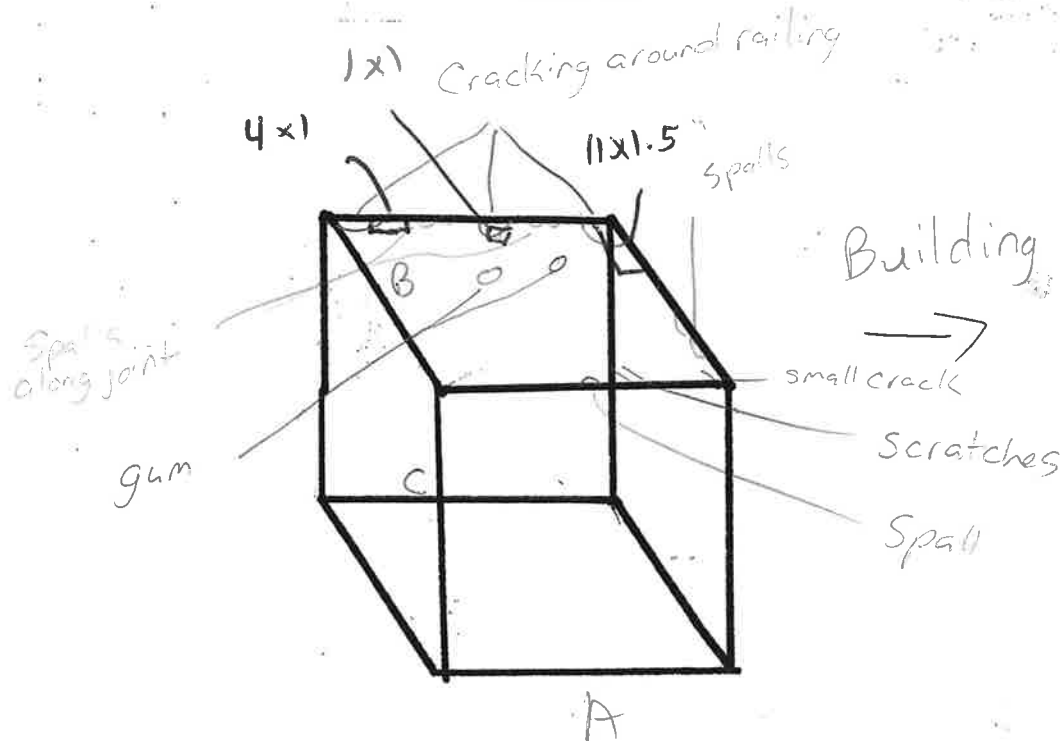
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

Stone ID No.

92BE

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	58 1/2	
B	37 1/4	
C	3 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 gum spots on tread
Cracking around railing posts
Spalls all along east joint
2 spalls on North joint

1 spall and 2 small scratches on west joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 21.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-18-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

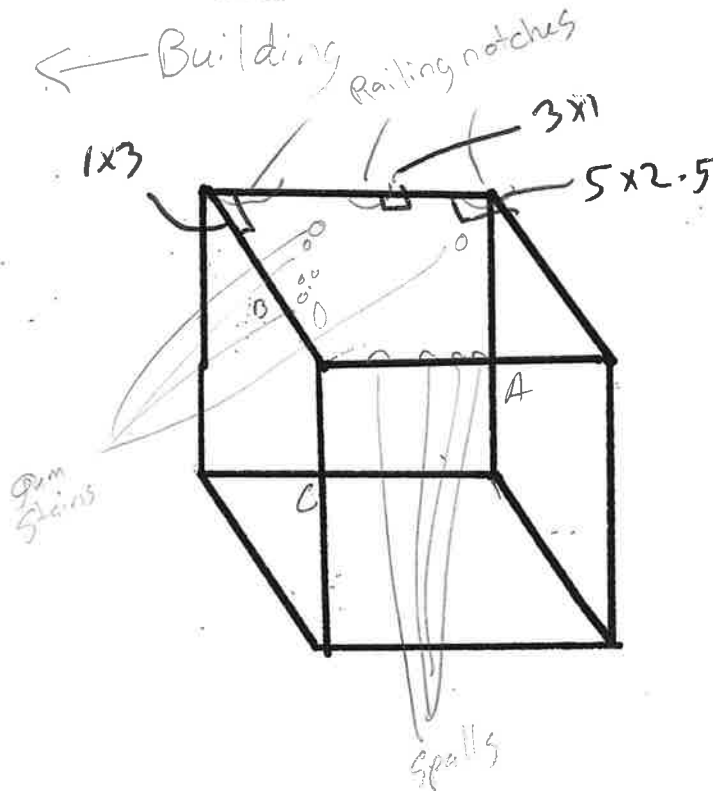
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

92BW

Location	Length (in)	
Overall Dimensions:		
A	58 5/8	
B	37 3/8	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Notches for railing along west edge
gum/stains across tread
Several spalls along east joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 18.5 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris LPhon
(Print)

(Signed)

Date: 9/29/22

Stone Survey Sheet

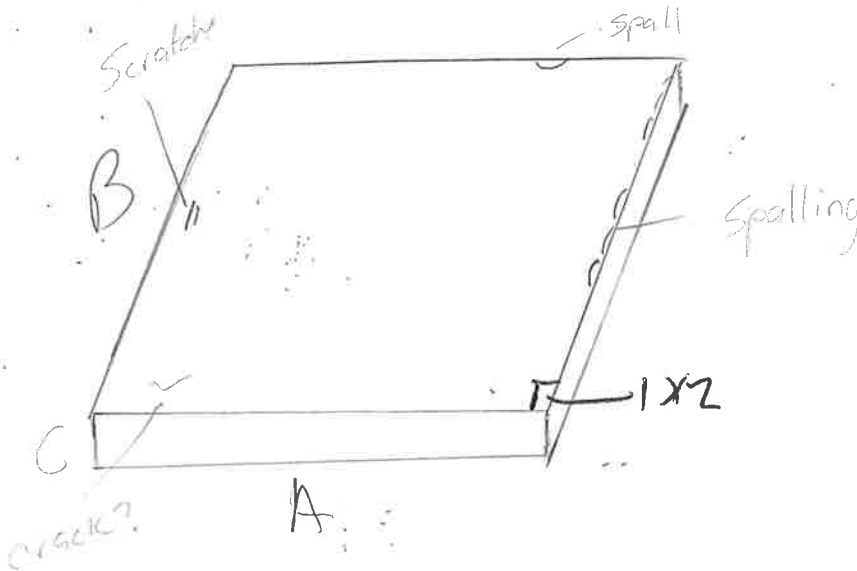
Location Drawing D4.02

Storage Drawing _____

Stone ID No.

92CE

SKETCH
Building ↑



Location.	Length (in)	
Overall Dimensions		
A	58 7/16	
B	58 5/8	
C	3 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Scratches on left side
Spall on back joint
Small spalls along right joint

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 2 [in^3]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes No

Checklist

- ☐ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-11-22

WDP/GSD Representative:

Chris Chman
(Print)

(Signed)

Date: 9/20/22

Stone Survey Sheet

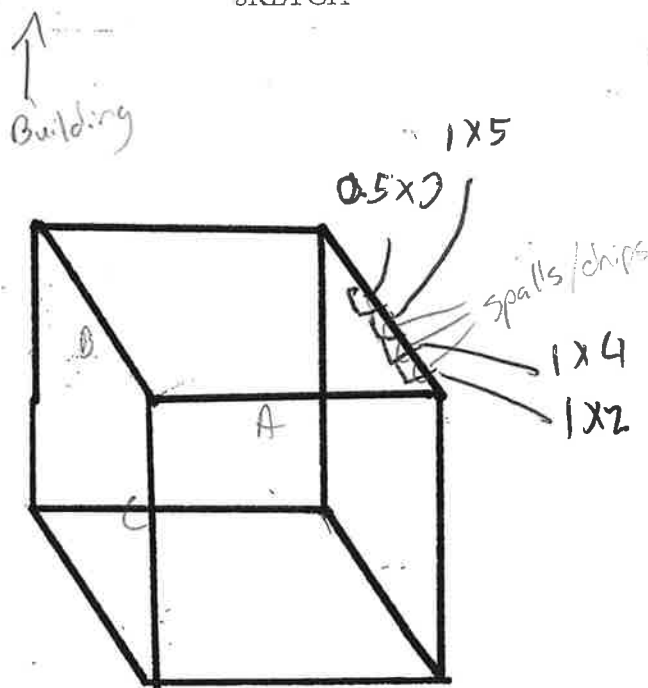
Location Drawing D4.02

Storage Drawing _____

Stone ID No.

92CW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	58 1/2	
B	58 1/2	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalling/chipping along west joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 12.5 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lthman
(Print)

[Signature]
(Signed)

Date: 9/20/22

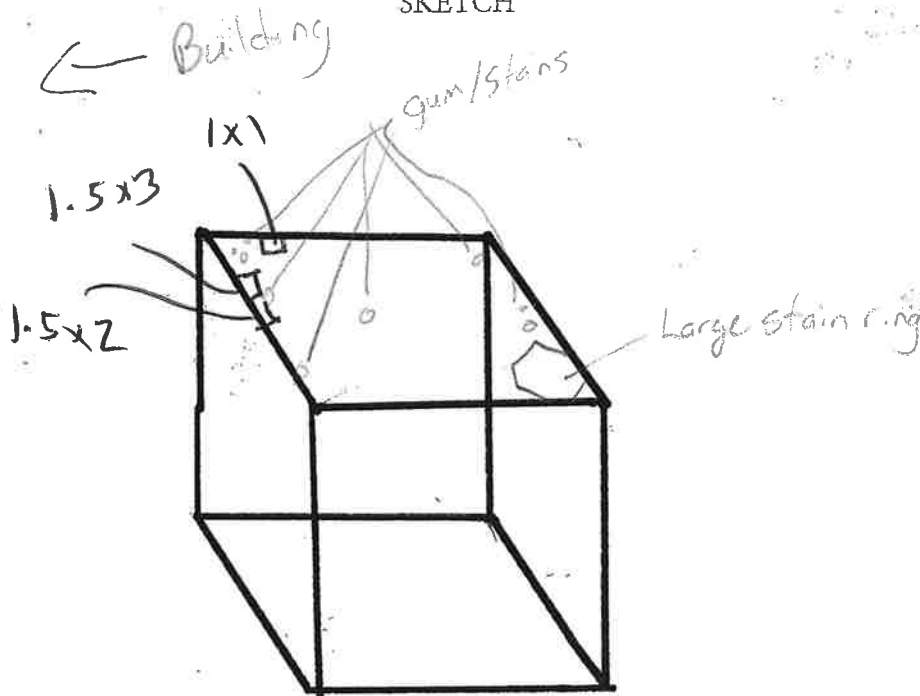
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

Stone ID No.

92EE

SKETCH



Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large stain ring southeast corner
gum + stain spots across tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8.5 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8-23-22

WDP/GSD Representative:

Chris LPhnan
(Print)

Chris LPhnan
(Signed)

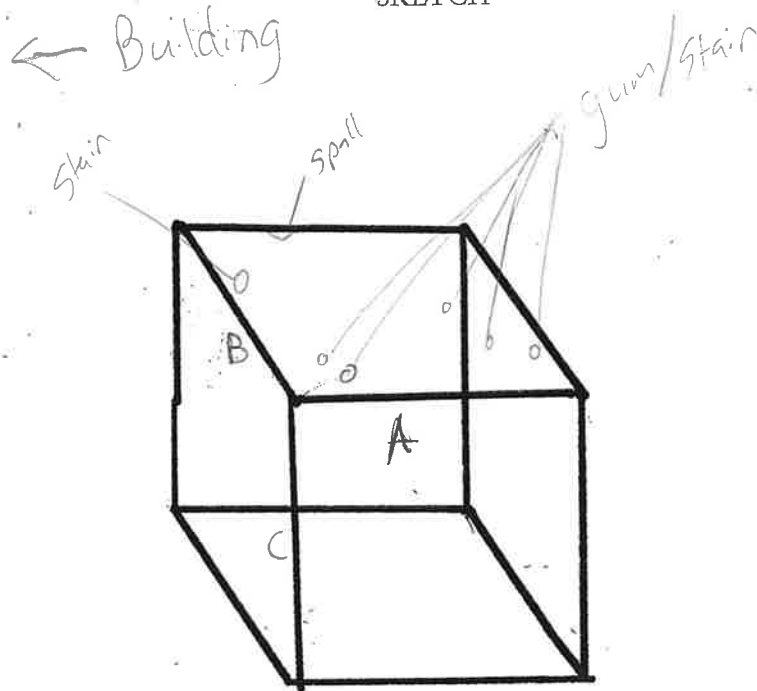
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

Stone ID No.
92EW

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	58 ³ / ₈	
B	75	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on West Joint
gum/stain spots across tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-30-22

WDP/GSD Representative:

Chris L. Johnson
(Print)

CLH
(Signed)

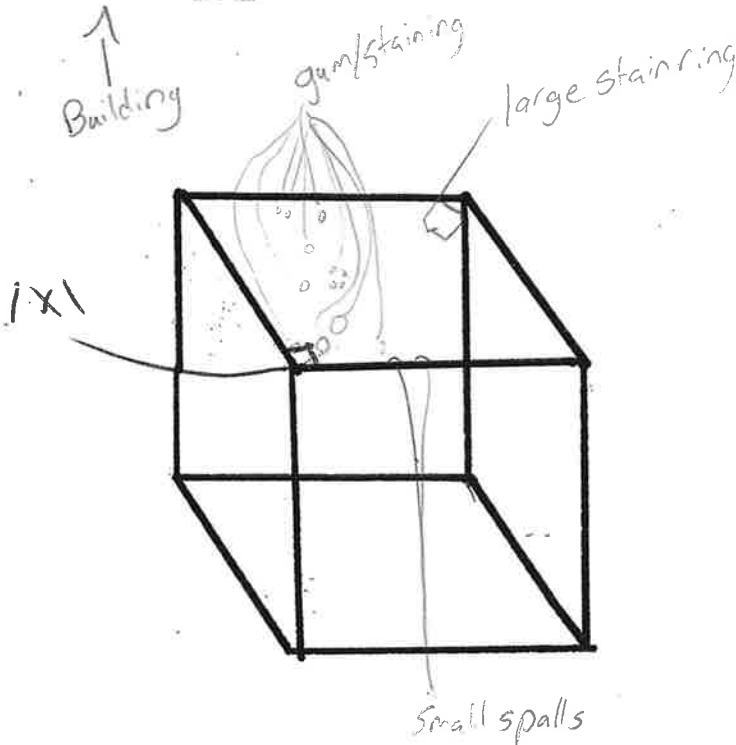
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

Stone ID No.
92GE

SKETCH



Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large stain ring northwest corner
small spalls south joint
gum/staining across tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 1 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-23-22

WDP/GSD Representative:

Chris Lehman
(Print)

[Signature]
(Signed)

Date: 9/20/22

Stone Survey Sheet

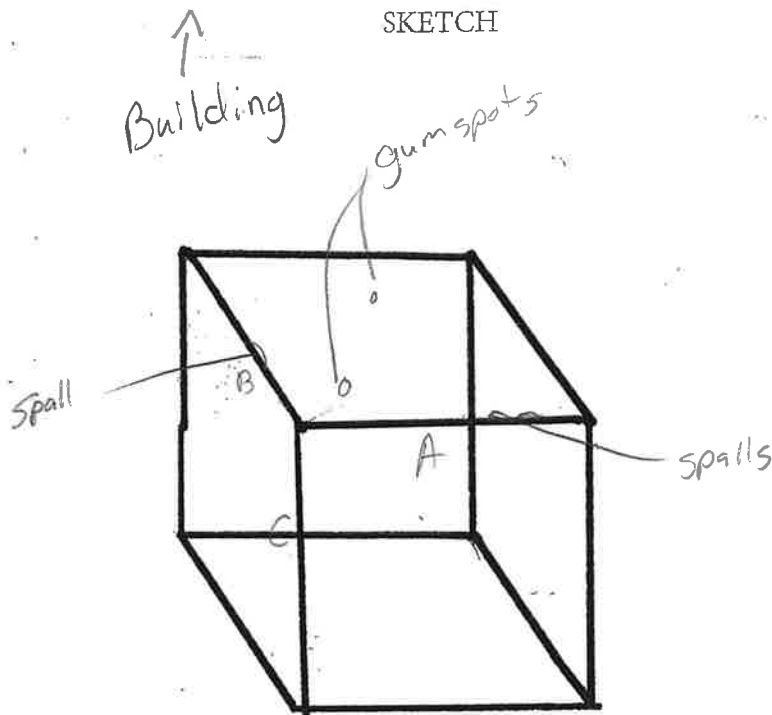
Location Drawing D4.02

Storage Drawing _____

Stone ID No.

92GW

SKETCH



Location	Length (in)	
Overall Dimensions:		
A	58 5/8	
B	58 3/4	
C	37 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall east joint
2 spalls south joint on west side
small gum/stain spots on tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lhman
(Print)

(Signed)

Date: 9/20/22

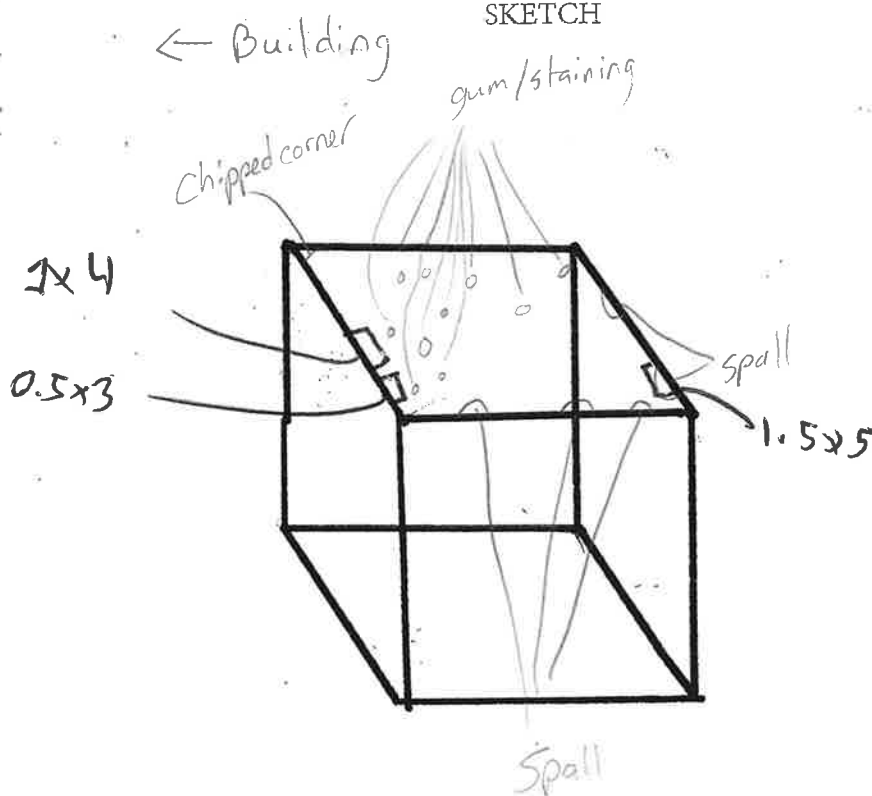
Stone Survey Sheet

Location Drawing 04.02
Storage Drawing _____

Stone ID No.

Q2JE

SKETCH



Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chipped corner north west
3 Spalls along east joint
2 spalls south joint
gum/stains across tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 13 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-24-22

WDP/GSD Representative:

Chris Upman
(Print)

(Signed)

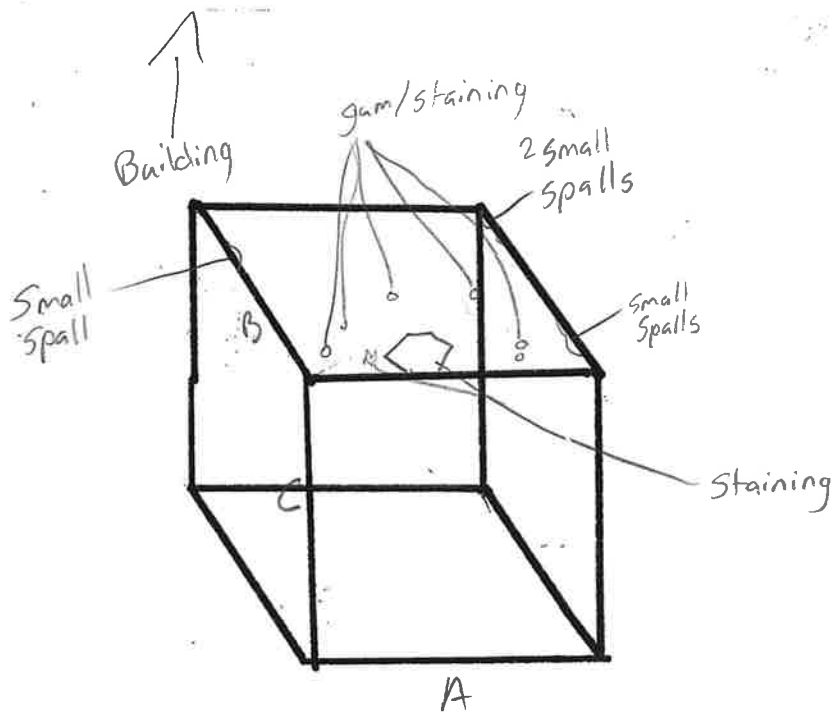
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

92JW

Location	Length (in)	
Overall Dimensions:		
A	75	
B	58 ³ / ₄	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall east joint
 4 small spalls west joint
 gum/stain spots across tread
 large stain ring south side at center of joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Lohman
 (Print)

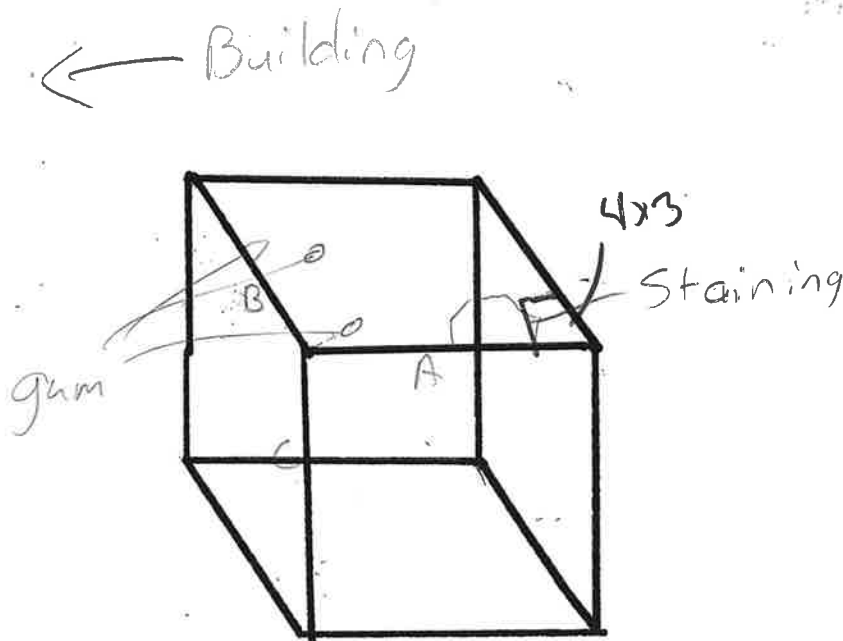
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.

92LE

Location	Length (in)	
Overall Dimensions:		
A	58 1/2	
E	58 1/2	
C	3 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

gum and staining across head
Ring of stain left joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 12 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-25-22

WDP/GSD Representative:

Chris LPhman
(Print)

[Signature]
(Signed)

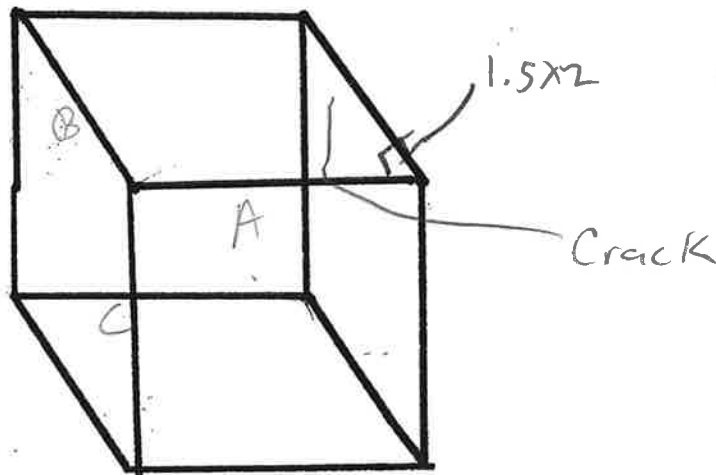
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH

↑
Building



Stone ID No.

92LW

Location	Length (in)	
Overall Dimensions:		
A	58 3/4	
B	58 1/4	
C	3 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Crack from south joint running north

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Chris Johnson
(Print)

(Signed)

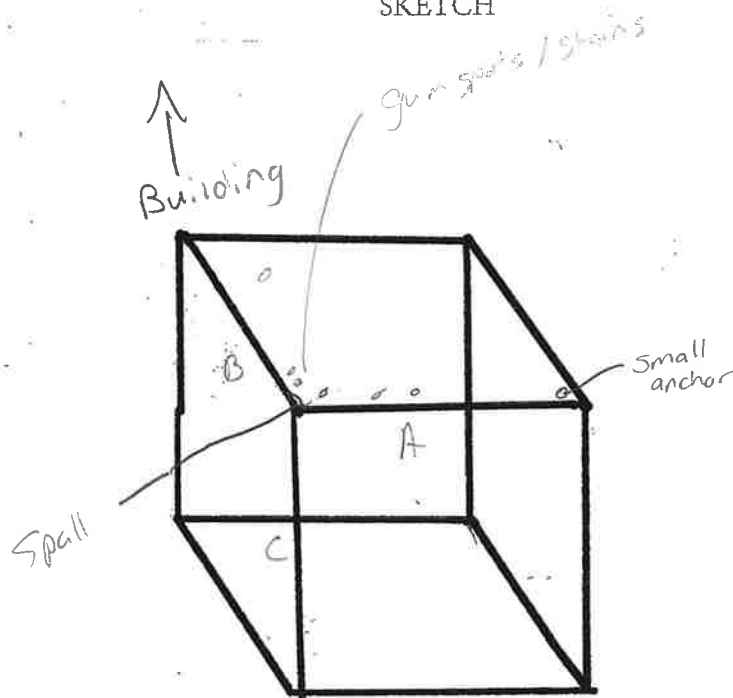
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

92NE

Location	Length (in)	
Overall Dimensions:		
A	75	
B	58 3/4	
C	4 1/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

gum spots + staining
Small anchor in corner front right
Small spall on left joint near corner

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8-28-22

WDP/GSD Representative:

Chris Lehman
(Print)

Chris
(Signed)

Date: 9/20/22

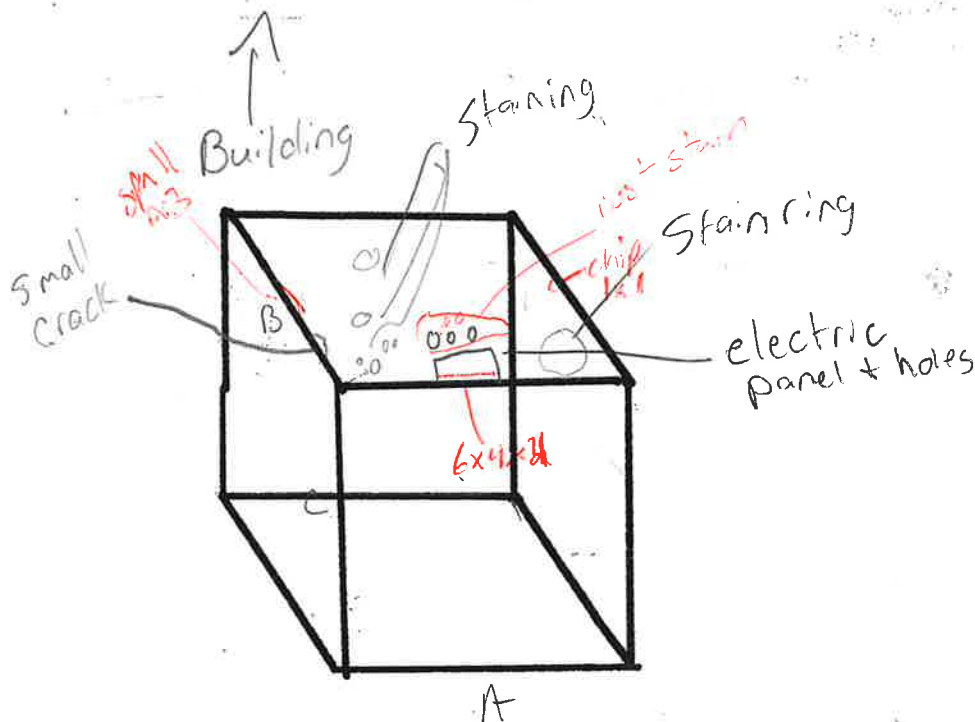
Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH

Stone ID No.

92NW



Location	Length (in)	
Overall Dimensions		
A	75	
B	58 5/8	
C	3 7/8	4 1/4
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small crack east joint
Staining across tread
Stain ring south west corner
Electric panels + holes for it south joint against column

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 100 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-29-22

WDP/GSD Representative:

Willie
(Print)

(Signed)

Date: 9-20-22

Location Drawing D4.02
Storage Drawing _____

92Q

Location	Length (in)	
Overall Dimensions:		
A	76 1/2	
B	58 3/4	
C	3 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

large ring of staining front left
3 small spills left joint
staining near center
spill front joint right of center
small anchor front right corner

- Stone cleaning recommended: Minor / Moderate to heavy
 - Type of repair _____
 - Patching required? Yes / No (if yes, shade the area on the sketch)
 - Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

☒ Photographed prior to removal
☒ Add building reference points for existing location
☐ Existing conditions prevent removal per rigging plan
☒ Photographed after removal
☒ Documentation of areas to be patched
☒ Labeled with Stone ID
☒ Labeled stone with location of mortar joint lines above

Scott Johnson
(Print)

(Signed):

Date: 8-28-22

Chris Gorman
(Print)

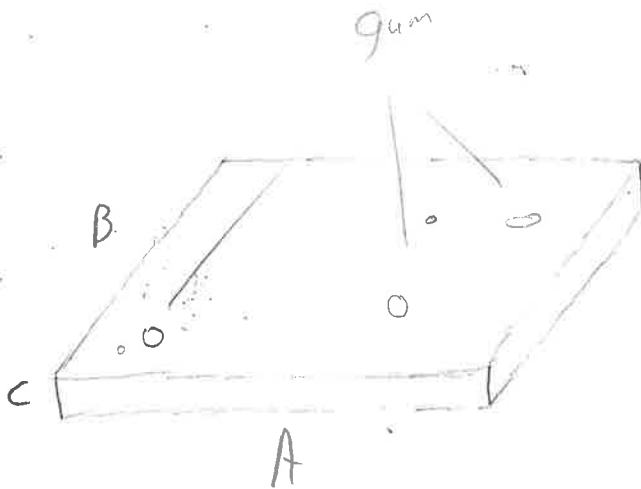
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
93CE

Location	Length (in)	
Overall Dimensions:		
A	58 1/2	
B	75	
C	3 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
gum spots along tread

• Stone cleaning recommended: Minor / Moderate to heavy
• Type of repair _____
• Patching required? Yes / No (if yes, shade the area on the sketch)
• Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Chris Lehman
(Print)

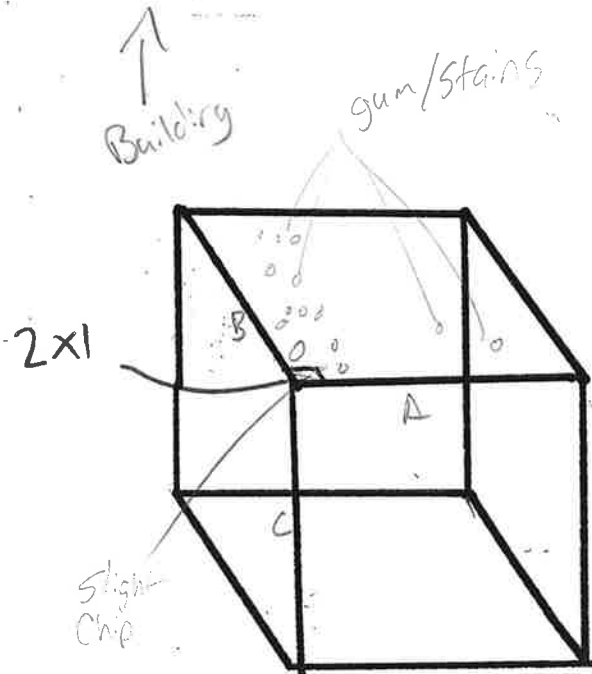
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
93CW

Location	Length (in)	
Overall Dimensions:		
A	58 3/4	
B	75 1/4	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

gum + staining across tread
Southeast corner slightly chipped

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / ☒ No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

Stone Survey Sheet

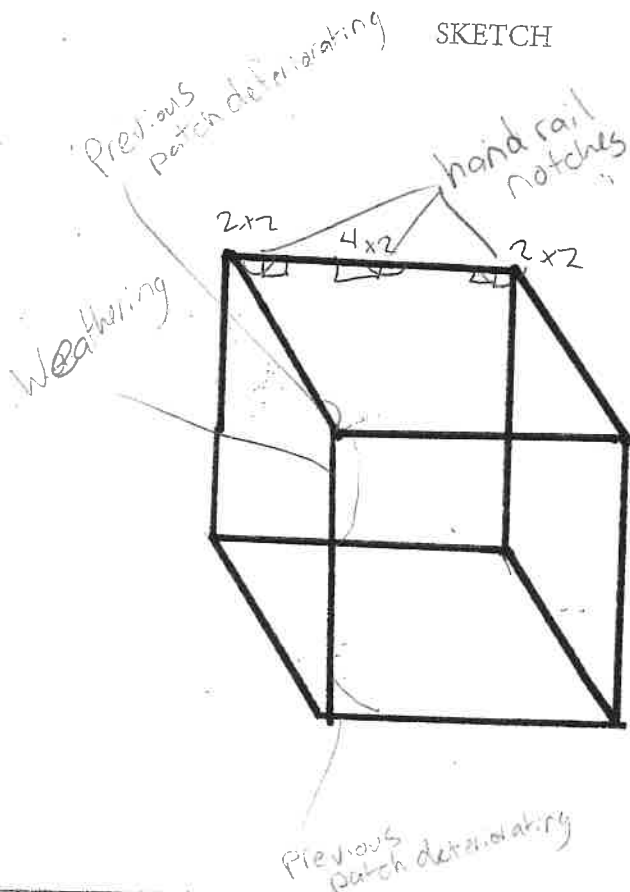
Location Drawing D4.03

Storage Drawing _____

Stone ID No.

94AE

SKETCH



Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

3 handrail notches on west joint of top
 Previous patch on top at north joint; deteriorating
 Weathering at joint top left of east face
 Previous patch bottom left corner of east face; deteriorating

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 16 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman

(Print)

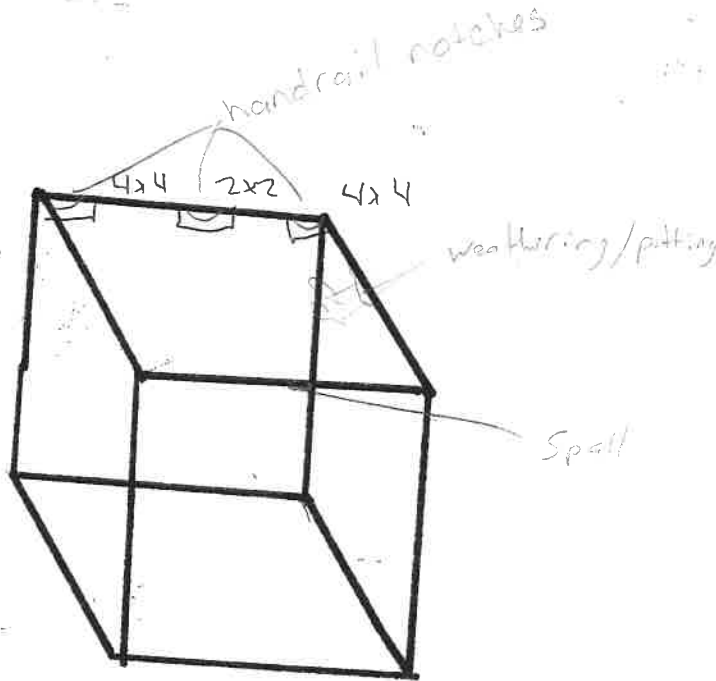
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
94AW

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall on rising
Weathering on top of stone right side and at right joint jointing
3 handrail notches at west joint of top

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 36 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Cunniff
(Print)

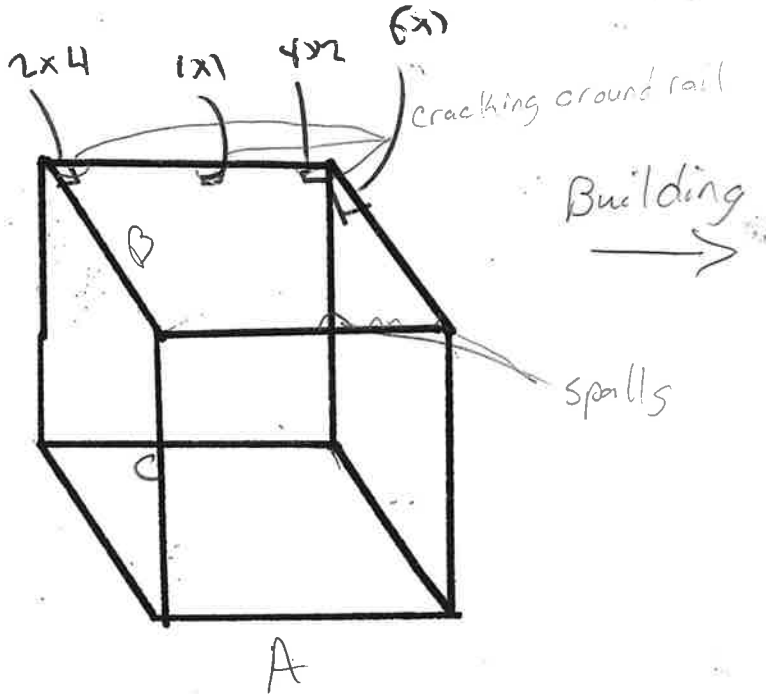
Chris Cunniff
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.02
Storage Drawing _____

SKETCH



Stone ID No.
94BE

Location	Length (in)	
Overall Dimensions		
A	58 ³ / ₈	
B	37 ¹ / ₄	
C	3 ³ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls on west joint building side
Cracking around railing posts

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2.3 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-18-22

WDP/GSD Representative:

Chris Lannan
(Print)

[Signature]
(Signed)

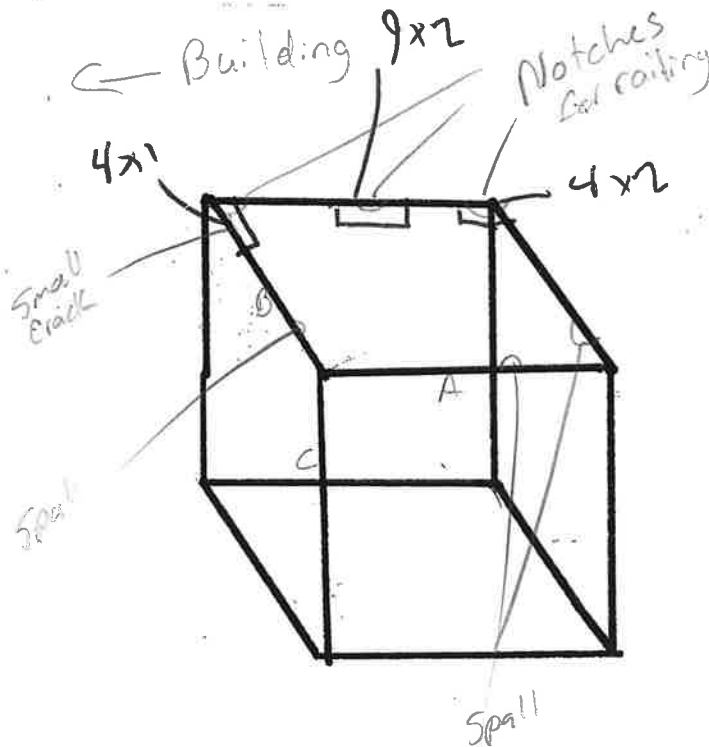
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

94BW

Location	Length (in)	
Overall Dimensions:		
A	58 1/2	
B	37 1/2	
C	3 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Notches for railing along west edge
 Small crack off the north west railing notch
 Spall on north joint
 Spall on east joint
 Spall on south joint
 Staining across tread

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 30 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

SV. N
 (Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
 (Print)

Ch. L
 (Signed)

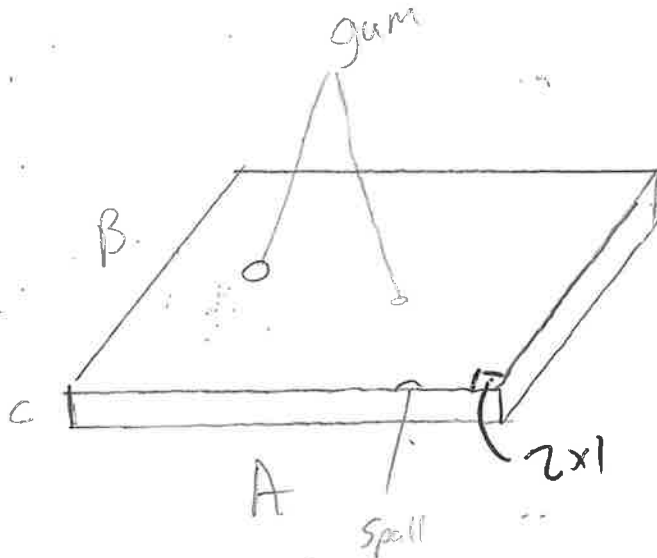
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

94CE

Location.	Length (in)	
Overall Dimensions:		
A	58 ³ / ₄	
B	58 ¹ / ₄	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spall on stair side joint right side
2 gum spots on tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

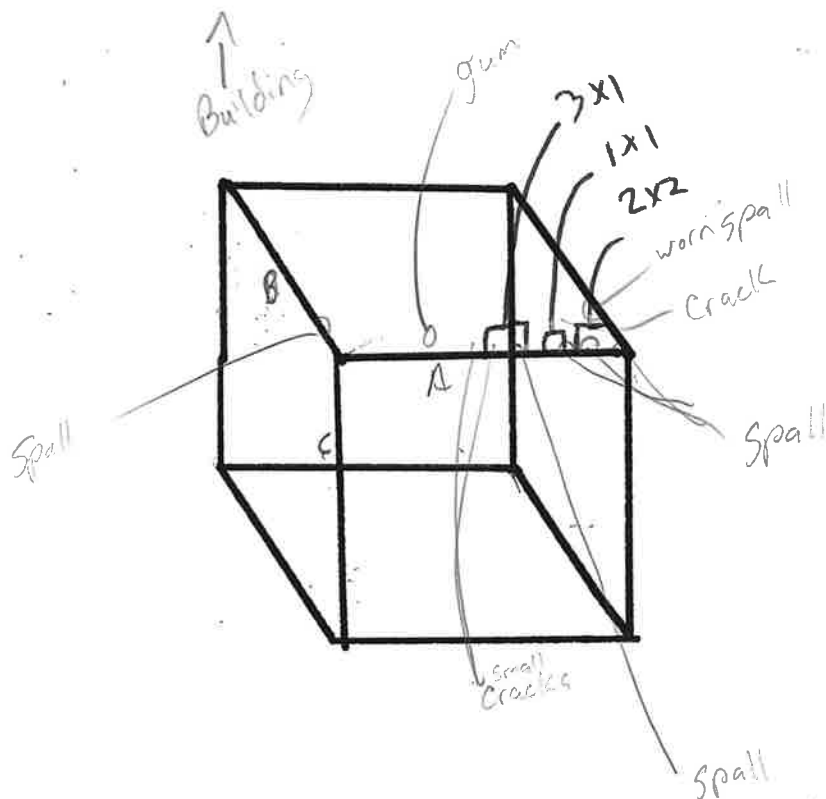
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

94CW

Location	Length (in)	
Overall Dimensions:		
A	58 5/8	
B	58 3/4	
C	3 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on west joint
 Spall on east joint
 Crack of east joint
 Several spalls on south joint toward west side
 2 small cracks on south joint near center

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in^3]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

[Signature]
 (Signed)

Date: 8-31-22

WDP/GSD Representative:

Chris Lehman
 (Print)

[Signature]
 (Signed)

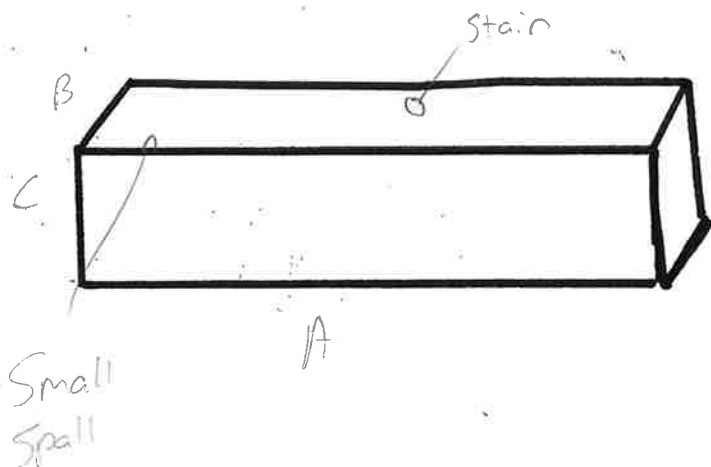
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

95CE

Location	Length (in)	
Overall Dimensions:		
A	59	
B	13 1/2	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall south joint
Stained spot on tread

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-17-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

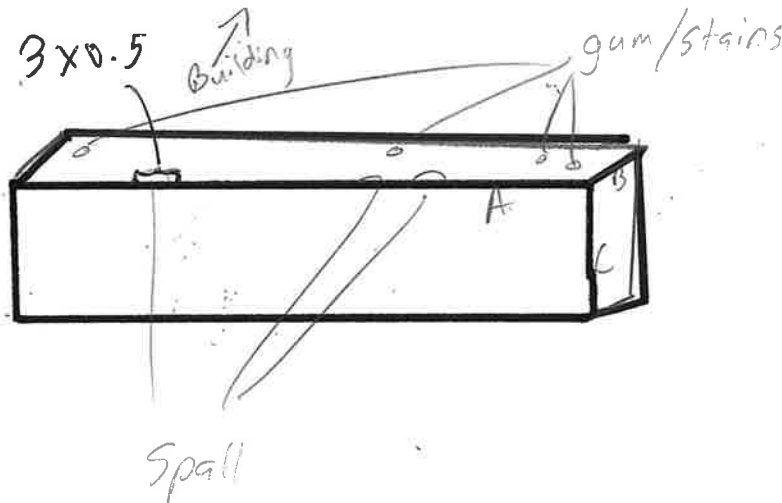
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.02

Storage Drawing _____

SKETCH



Stone ID No.

95CW

Location.	Length (in)	
Overall Dimensions:		
A	58 ⁷ / ₈	
B	17 ¹ / ₂	
C	3 ⁷ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

gum/stains across tread
3 spalls along south joint

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-31-22

WDF/GSD Representative:

Chris Lehman
(Print)

(Signed)

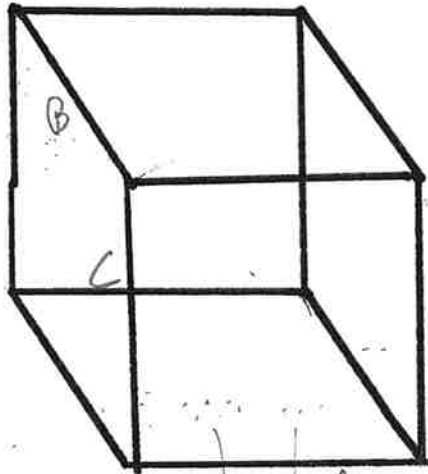
Date: 9/20/22

Granite Platform Wall Panels

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Rust colored stains

Stone ID No.

14ZE

Location	Length (in)	
Overall Dimensions		
A	77½	
B	57½	
C	4½	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Rust or rust colored staining along bottom

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

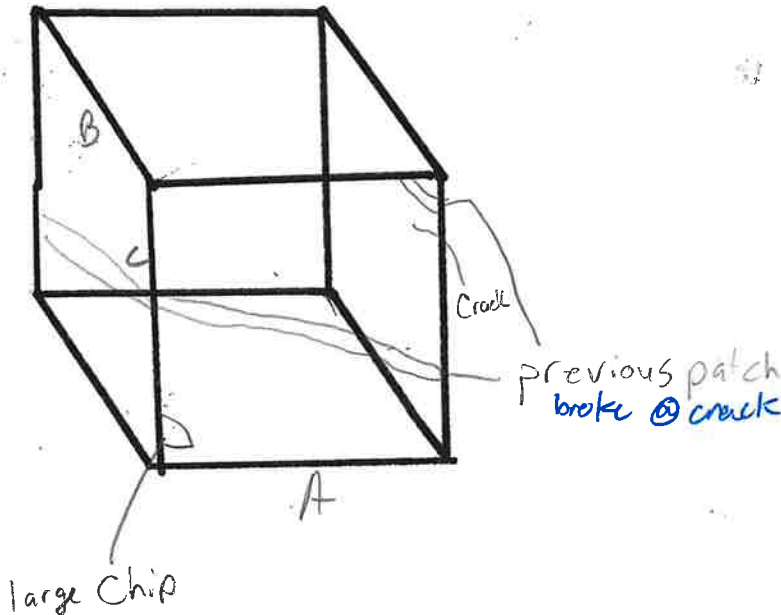
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.

31ZE

Location	Length (in)	
Overall Dimensions		
A	23 7/8 (top), 23 (bot)	
B	11 7/16	
C	44 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Large chip on northeast corner
Large previous patch running horizontal through the entire stone
Previous patch top right corner of east face

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Replacement
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: ✓ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-19-22

WDP/GSD Representative:

Cliff
(Print)

(Signed)

Date: 9-21-20

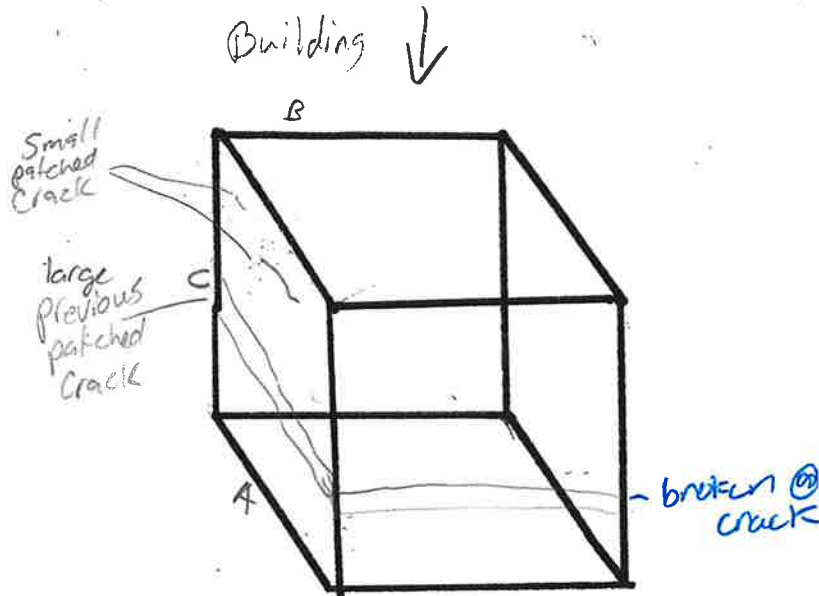
Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH

Stone ID No.

312W



Location	Length (in)	
Overall Dimensions:		
A	11 5/8	
B	23 1/8	
C	26 1/8 + 21 1/4 = 47 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small patched cracks near top of west face

large patched crack running horizontal across west face and north face

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Replace
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: — [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-19-22

WDP/GSD Representative:

Chilla
(Print)

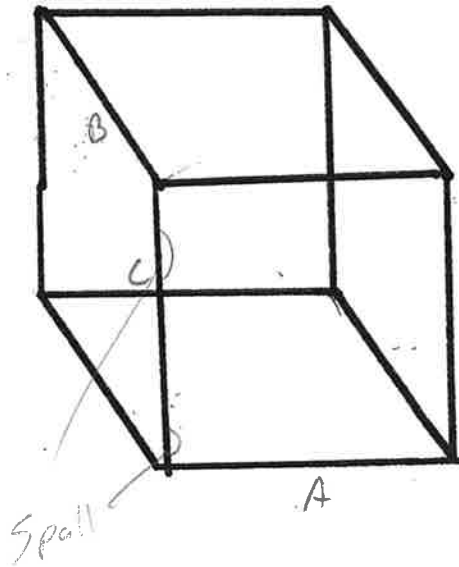
(Signed)

Date: 9-21-20

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Stone ID No.
32ZE

Location	Length (in)	
Overall Dimensions:		
A	54	
B	48	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on left head joint near top + bottom

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / **No** (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / **No**

Checklist

- ☐ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

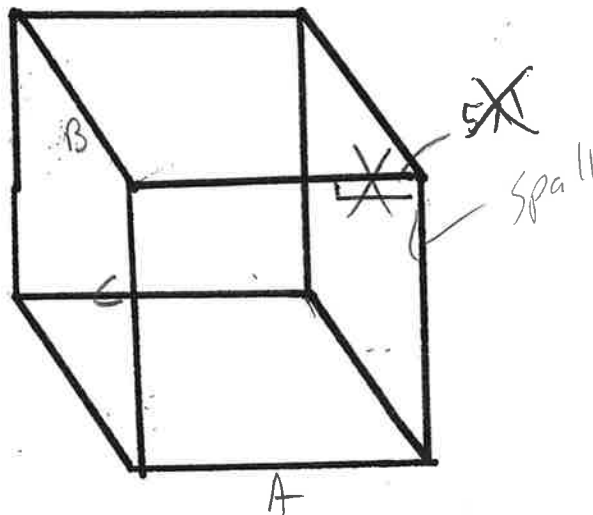
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.03 fig 3
Storage Drawing _____

SKETCH



Stone ID No.
32ZW

Location	Length (in)	
Overall Dimensions		
A	53 5/8	
B	47 7/8	
C	4 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Spall on right head joint near top

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 80 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

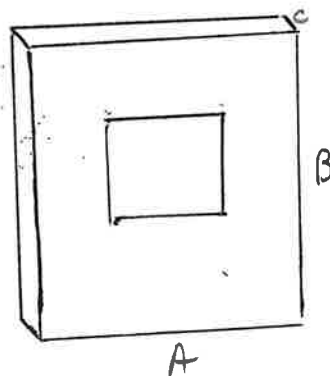
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4-05
Storage Drawing _____

Stone ID No
33ZE

SKETCH



Location	Length (in)
Overall Dimensions	
A	53 3/4
B	48
C	4
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

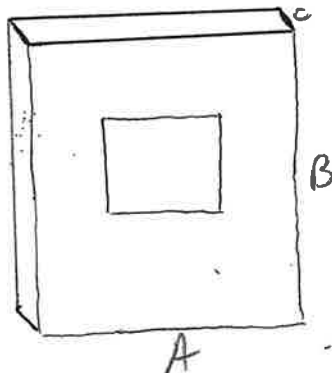
Stone Survey Sheet

Location Drawing D4.05

Storage Drawing _____

Stone ID No
33ZW

SKETCH



Location	Length (in)	
Overall Dimensions		
A	57 1/8	
B	47 1/8	
C	4 1/4	
Mortar Joints		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

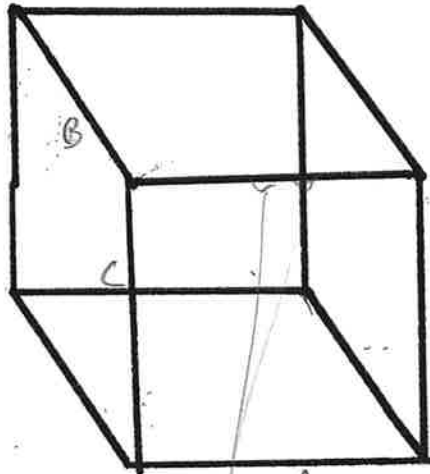
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.05
Storage Drawing _____

SKETCH



Small
spalls

Stone ID No.

34ZE

Location	Length (in)	
Overall Dimensions:		
A	53 ³ / ₈	
B	48	
C	3 ¹ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls on top edge of face right side

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Johnson
(Print)

[Signature]
(Signed)

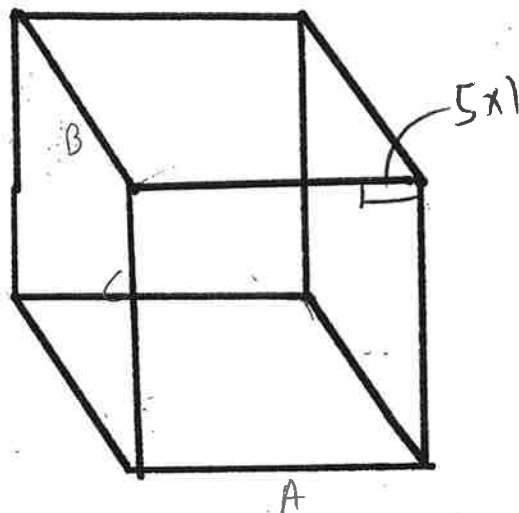
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.03 fig 3

Storage Drawing _____

SKETCH



Stone ID No.

34ZW

Location	Length (in)	
Overall Dimensions:		
A	53 ⁵ / ₈	
B	48	
C	3 ¹ / ₂	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 5 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris L. Phelan
(Print)

(Signed)

Date: 9/20/22

Limestone Cheekwall Copings, Cornices, and Wall Panels

Stone Survey Sheet

Location Drawing D4.03
Storage Drawing _____

SKETCH



Spalls

Stone ID No.

42UE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls top right corner + top edge

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

(Print)

(Signed)

Date:

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

42UW

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / ☒ No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / ☒ No

Contractor Representative: Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative: Chris Lehman
(Print)

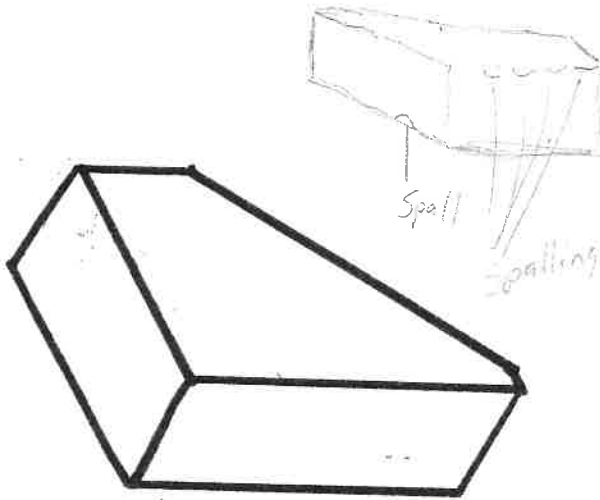
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.03
Storage Drawing _____

SKETCH



Stone ID No.
44UE

Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on east facing bed joint
Spalls along top edge of south face on right side

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

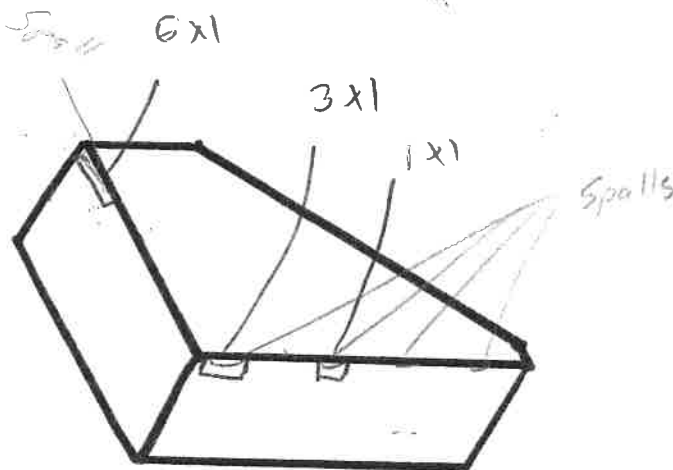
Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 9-22-22

WDP/GSD Representative: _____ (Print) _____ (Signed) Date: _____

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

~~4404~~ 44 UW

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spalling top left corner of South face
Spalling along top joint of West face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Uhlman
(Print)

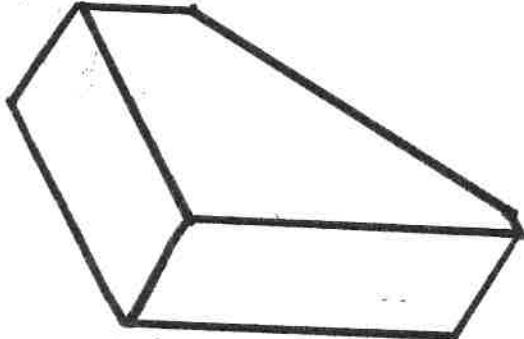
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing 104.03
Storage Drawing _____

SKETCH



Stone ID No.
44WE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 9-22-22

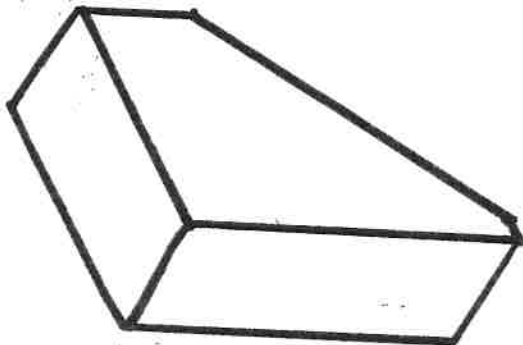
WDP/GSD Representative: Chris Lehman (Print) [Signature] (Signed) Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

44WW

Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

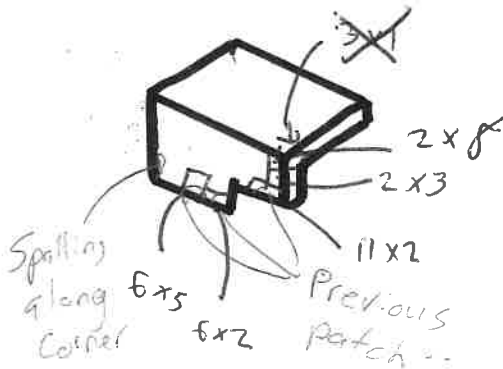
Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.03

Storage Drawing _____

SKETCH



Stone ID No.

44YE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalling along bottom of corner facing sand bag
Previous patches bottom edge of west side

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? ☒ Yes / ☐ No (if yes, shade the area on the sketch)

• Volume of Patching: 89 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / ☒ No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/23/22

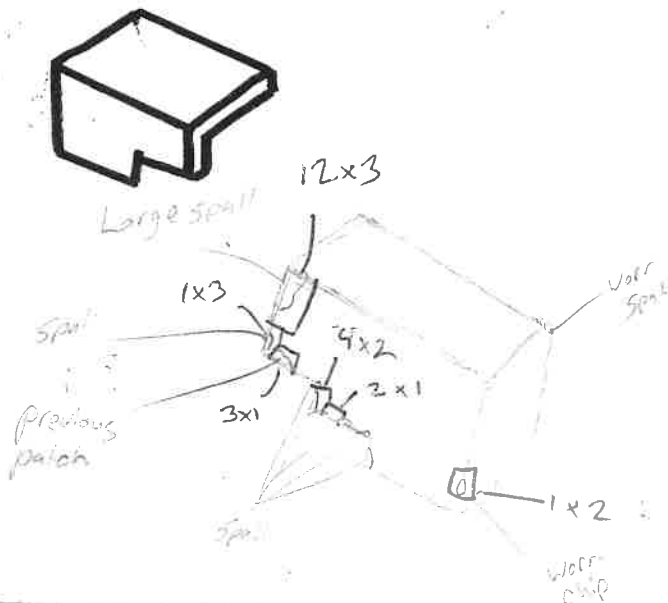
Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH

Stone ID No.
44 YW



Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large worn spall top left corner of south face
 Spall on left joint of south face
 previous patch on bottom joint far left side of south face
 Spalling all along the joint at meeting with stair 41
 Worn chip on south west corner of stone
 worn spall on top left corner of west face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? ☒ Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 54 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / ☒ No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/23/22

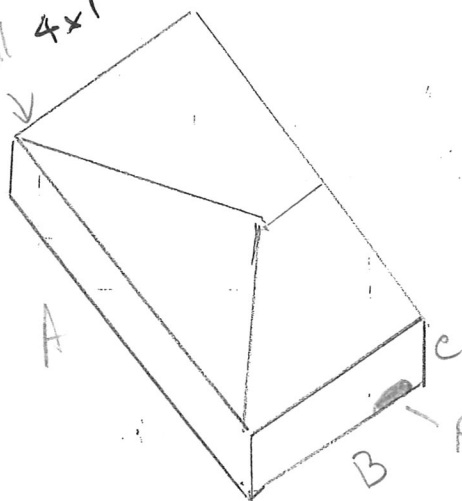
STONE SURVEY SHEET

Stone ID No.

45 RE

Location Drawing D4.03Storage Drawing Area B, Row C, Stone 1B side inside stairs

Spall 4x1



One 4x2"
Previous Patching
(Replacement
patch needed)

Location	Length (in)	
Overall Dimensions		
A	71 7/8	
B	44 1/8	
C	13 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patching discolored and deteriorating
Discolorations on top around pipe cap
Spall along outside bed joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Replace patch
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 124 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

Dillon
(Print)

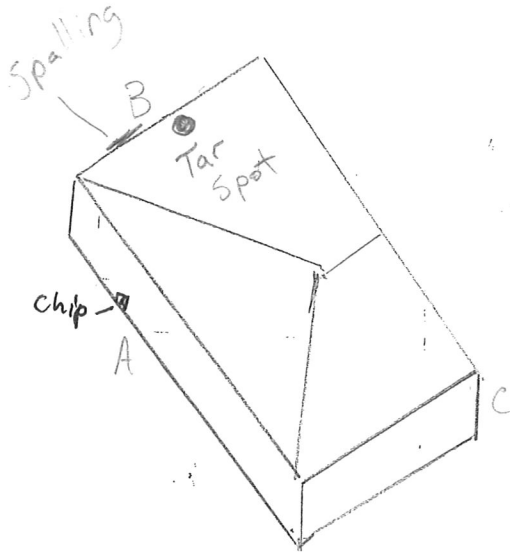
(Signed)

Date: 8/4/22

STONE SURVEY SHEET

Stone ID No.

45 RW

Location Drawing D4.04 Top Copying Lower SideStorage Drawing Area A, Row A, Stone 1Side B inside stairs

Location	Length (in)	
Overall Dimensions		
A	71 7/8"	
B	44"	
C	13 1/2"	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall at bed joints B

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes ☒ No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes ☒ No

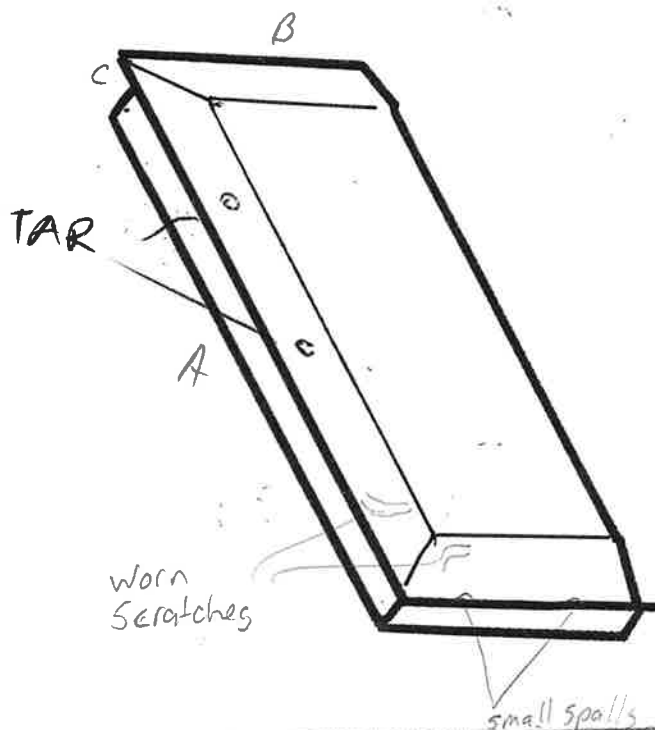
Contractor Representative: Scott Johnson (Print) Scott Johnson (Signed) Date: 8/2/22

WDP/GSD Representative: P Diller (Print) P Diller (Signed) Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.03 Fig 1
Storage Drawing _____

SKETCH



Stone ID No.

45 ~~TE~~

Location	Length (in)	
Overall Dimensions:		
A	13	
B	31 5/8	
C	15	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 small spalls top edge of A west face
2 spots worn scratches south west corner of top of stone

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

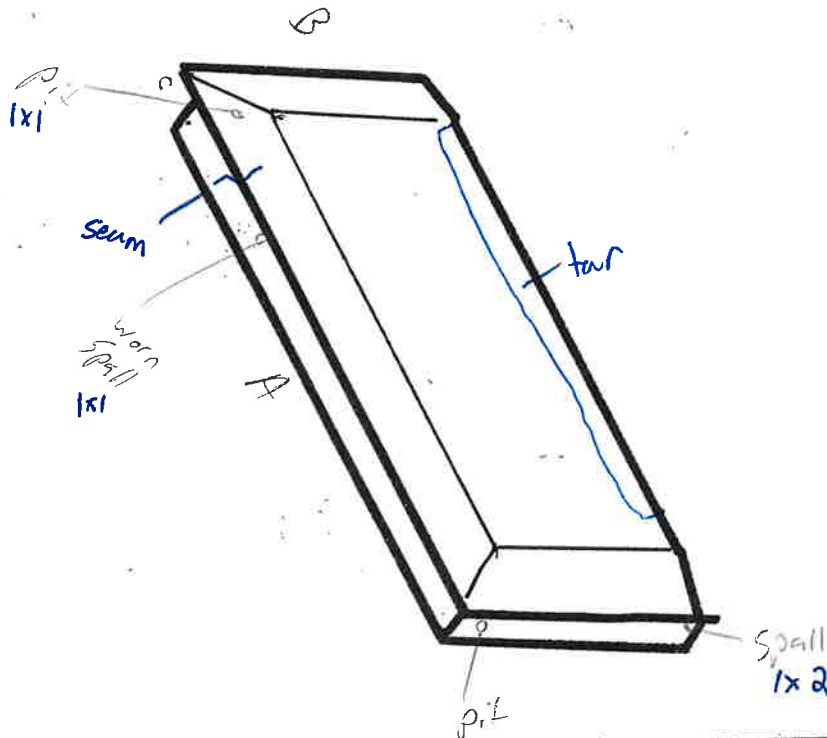
[Signature]
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

45TW

Location	Length (in)	
Overall Dimensions:		
A	92 ⁵ / ₈	
B	31 ³ / ₄	
C	14 ³ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Pit on top left front corner
Worn spot/spall face front side on left
Pit on right side face near front corner
Spall on right side top corner

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Crilla
(Print)

(Signed)

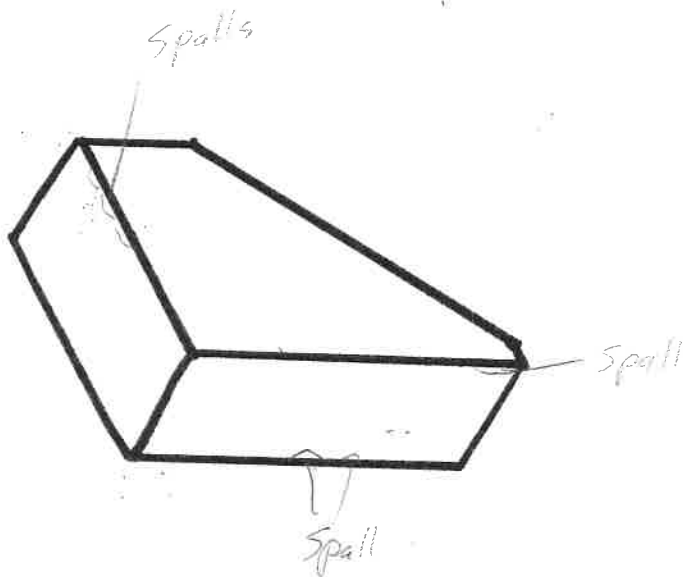
Date: 9-20-22

PIYWOOD

Stone Survey Sheet

Location Drawing D4.03
Storage Drawing _____

SKETCH



Stone ID No.

45UE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalling along top left of south face
Spalling along top right of west face
2 spalls on bed joint of west face

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson (Print) [Signature] (Signed) Date: 9-22-22

WDP/GSD Representative: _____ (Print) _____ (Signed) Date: _____

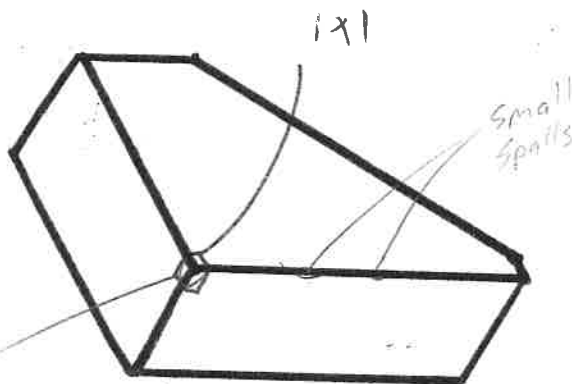
Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH

Stone ID No.

45UW



Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls on top joint of South Face
Spalled/chipped corner top left of South Face

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? ☒ Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 1 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / ☒ No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lippman
(Print)

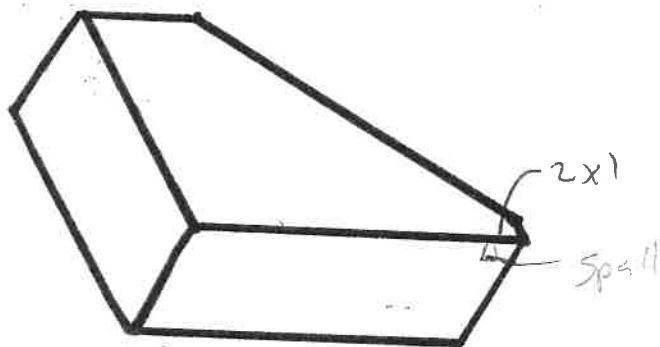
(Signed)

Date: 9/27/22

Stone Survey Sheet

Location Drawing 04.03
Storage Drawing _____

SKETCH



Stone ID No.

45WE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall top right corner of west face

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 2 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

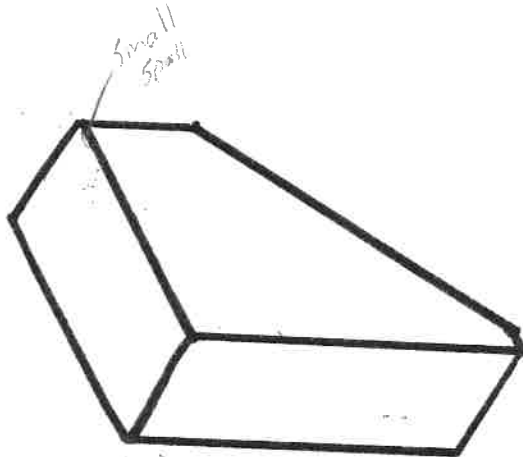
Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

45WW

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall top left of top joint on east face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Umman
(Print)

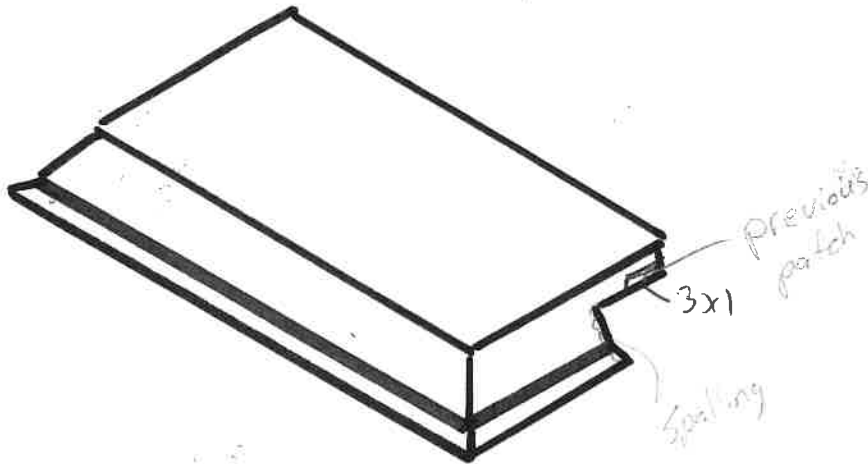
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing B4.03
Storage Drawing _____

SKETCH



Stone ID No.

45XE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

West face at bottom of north edge previous patch + spalling at meeting point with stairs

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 3 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

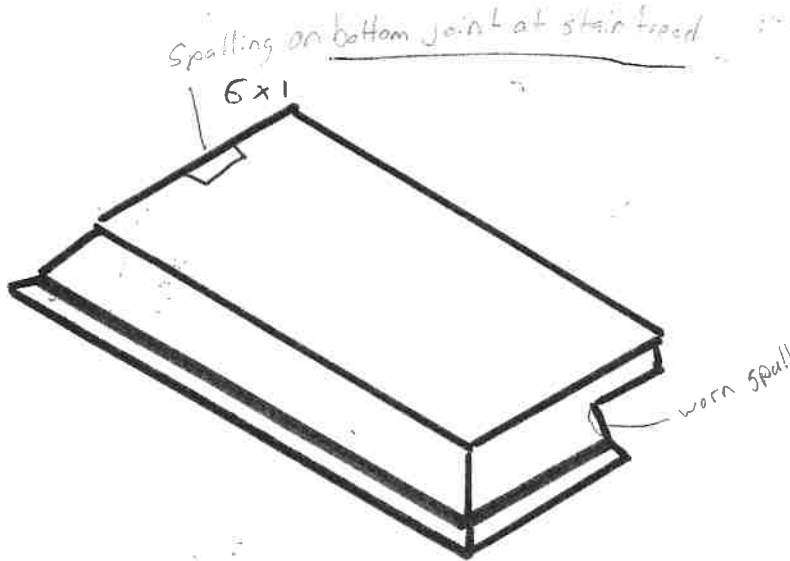
Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

45XW

Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spall on rounding of West face
Spalling on bottom joint of east face at northern stair tread joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 6 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Uhman
(Print)

(Signed)

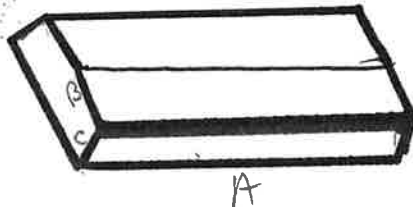
Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.03 fig 2

Storage Drawing _____

SKETCH



Stone ID No.

47SE

Location	Length (in)	
Overall Dimensions:		
A	45	
B	17 1/8	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

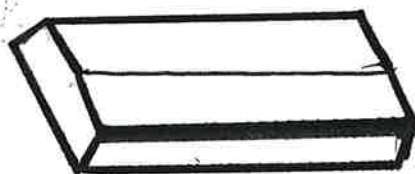
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

~~SW~~
47 SW

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-7-22

WDP/GSD Representative:

C. Villa
(Print)

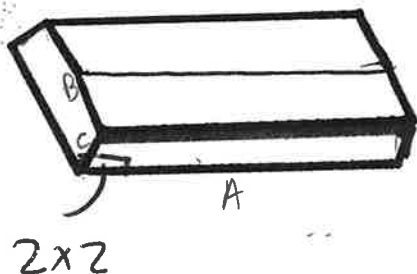
[Signature]
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 fig 3
Storage Drawing _____

SKETCH



Stone ID No.

47TE

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17 1/8	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

[Signature]
(Signed)

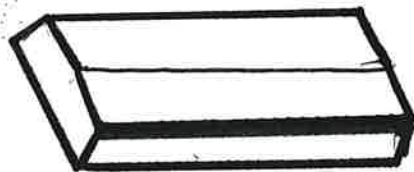
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

47TW

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chilla
(Print)

(Signed)

Date: 9-20-22

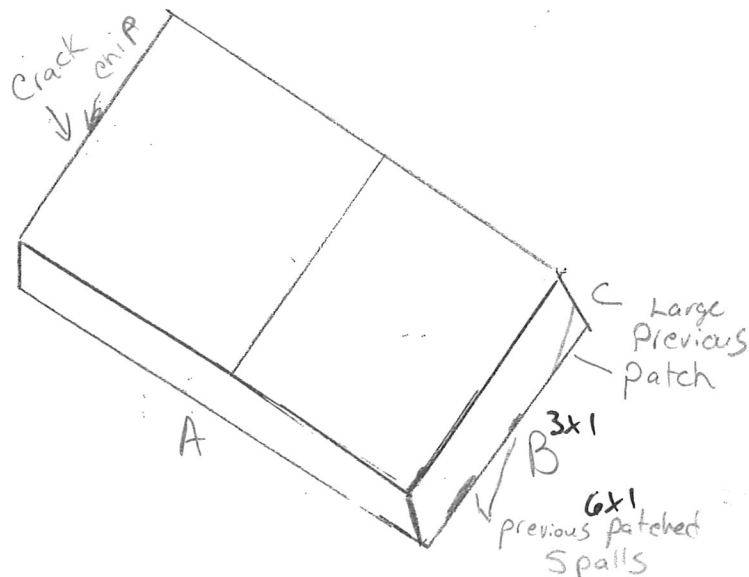
Stone Survey Sheet

Location Drawing D4.03

Storage Drawing Area B, Row C, Stone 2

B side inside stairs

SKETCH



Stone ID No.

48 RE

Location	Length (in)	
Overall Dimensions:		
A	71 ⁷ / ₈	
B	45 ³ / ₈	
C	13 ¹ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack and Spalls along outside bed joint
Discolorations along top edge B side
Large Previous Patch corner Bed joint on B side
Chip on outside top

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 9 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

P. Dillon
(Print)

(Signed)

Date: 8/4/22

Stone Survey Sheet

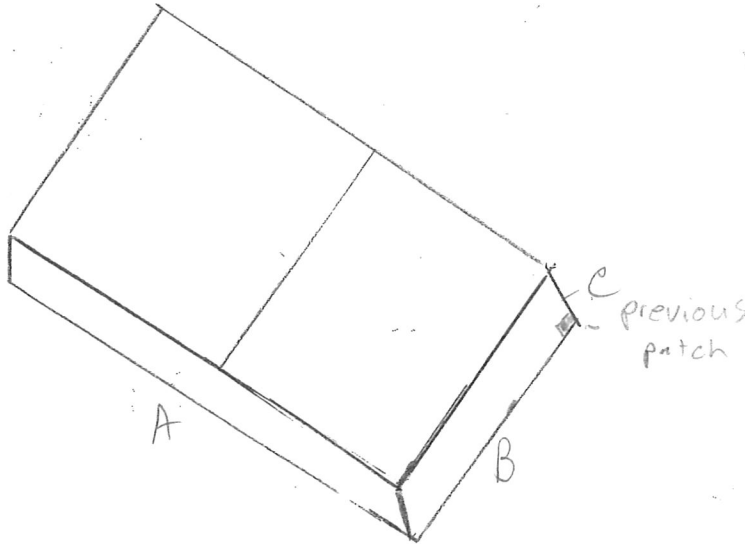
Location Drawing D4.04
Storage Drawing Area A, Row A, Stone 2

Stone ID No.

48RW

Side B inside stairs

SKETCH



Location	Length (in)	
Overall Dimensions		
A	71 ⁷ / ₈	
B	45 ¹ / ₂	
C	13 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Small chipping bed joint, previous patching bottom corner B side

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8/3/22

WDP/GSD Representative:

C. Villa
(Print)

C. Villa
(Signed)

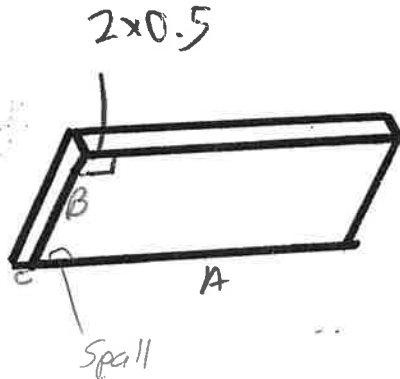
Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.03 fig 3

Storage Drawing _____

SKETCH



Stone ID No.

484E

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	21 5/8	
C	4 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall bottom left corner

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lephman
(Print)

(Signed)

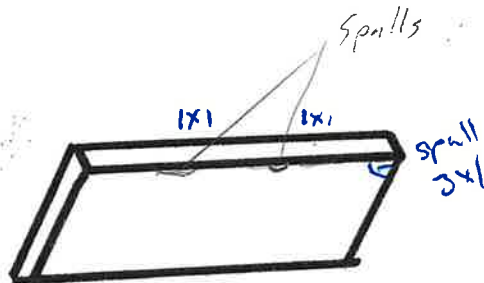
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

48UW

Location	Length (in)	
Overall Dimensions:		
A	45 1/8	
B	22 3/8	
C	37 1/8	4 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls along top edge

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 5 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-8-22

WDP/GSD Representative:

Avilla
(Print)

(Signed)

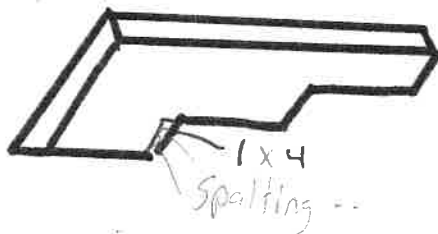
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03

Storage Drawing _____

SKETCH



Stone ID No.

48 WE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalling along bottom edge

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 4 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

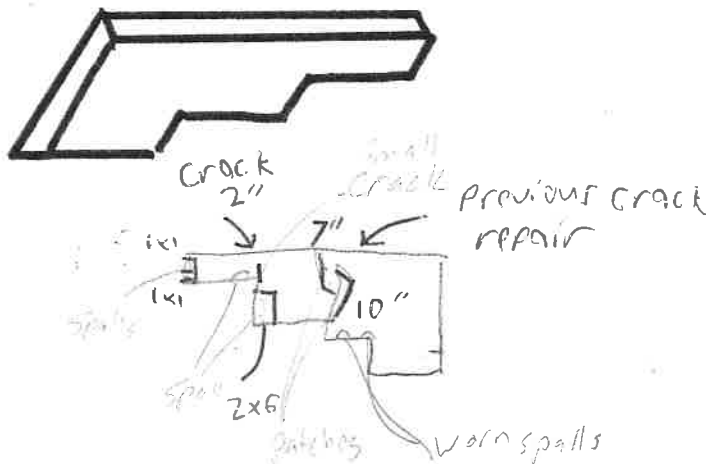
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

48 ~~WN~~ WN

Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Spall on head joint with riser of stair 52 BW + on heel joint w/51CW
- Small crack from corner w. th 51CW running up the face
- Spalls on head joint with 51CW
- 2 Patched cracks: Top joint running down on left side + from corner w. th 50 BW running up
- Spalls along bed joint with 49CW

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? ☒ Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 14 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / ☒ No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 7-8-22

WDP/GSD Representative:

Chris Uelman
(Print)

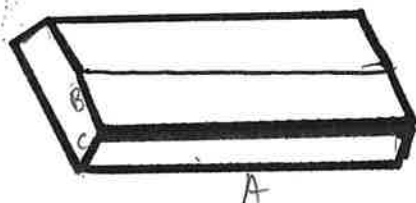
[Signature]
(Signed)

Date: 8/23/22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.
50SE

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17 1/8	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lhman

(Print)

(Signed)

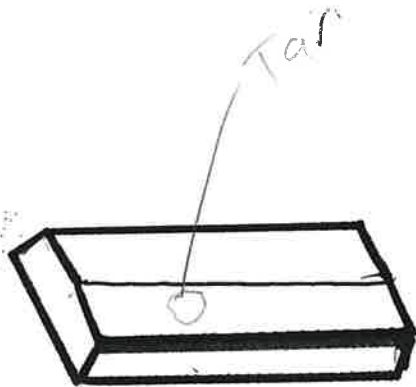
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

50SW

Location	Length (in)	
Overall Dimensions		
A	45 1/2	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Tar spot

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Ailla
(Print)

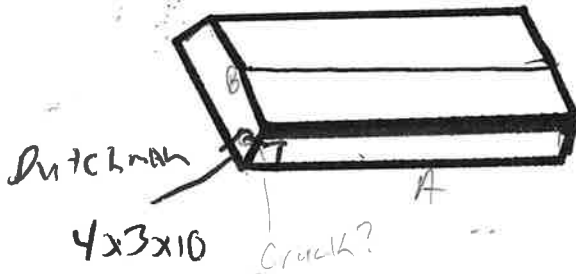
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 fig 3
Storage Drawing _____

SKETCH



Stone ID No.
50TE

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 120 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

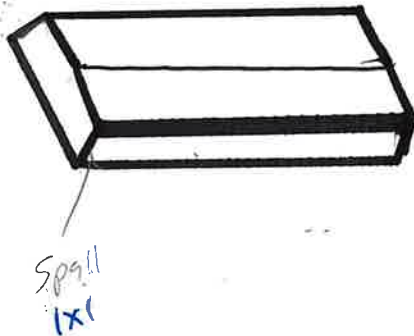
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
50TW

Location	Length (in)	
Overall Dimensions:		
A	45 ⁵ / ₈	
B	17 ¹ / ₄	
C	14 ³ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall bottom left corner / rounded
upper portion weathered

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Crilla
(Print)

(Signed)

Date: 9-20-22

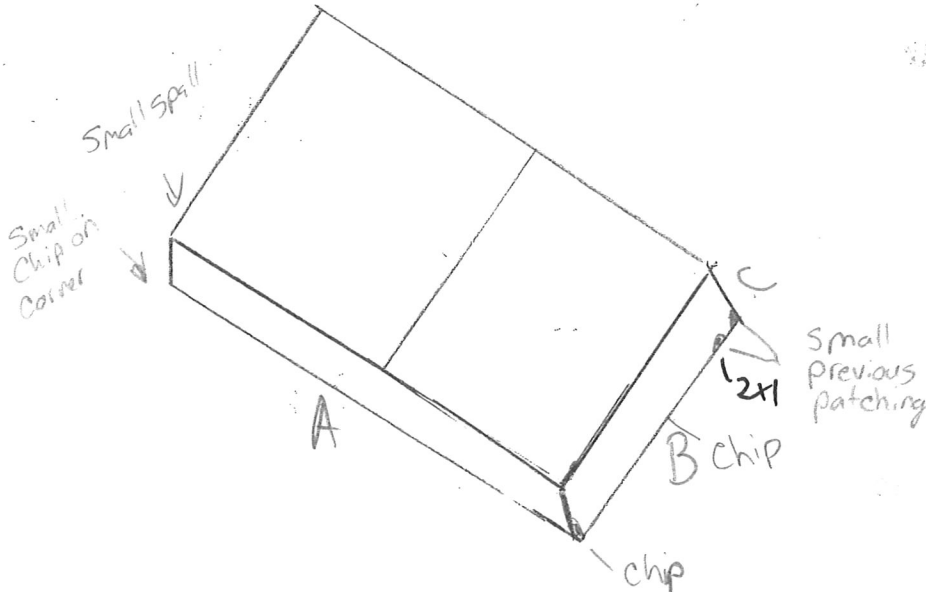
Stone Survey Sheet

Location Drawing D4.03
Storage Drawing Area B, Row C, Stone 3

Bside inside stairs SKETCH

Stone ID No.

51 RE



Location	Length (in)	
Overall Dimensions		
A	71 ⁷ / ₈	
B	45 ³ / ₈	
C	13 ¹ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall on outside bed joint
Small chip on outside corner
Chip on Bside corner
Small previous patching along bed joint + corner Bside
Chip near Bside center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

Date: 8/4/22

Stone Survey Sheet

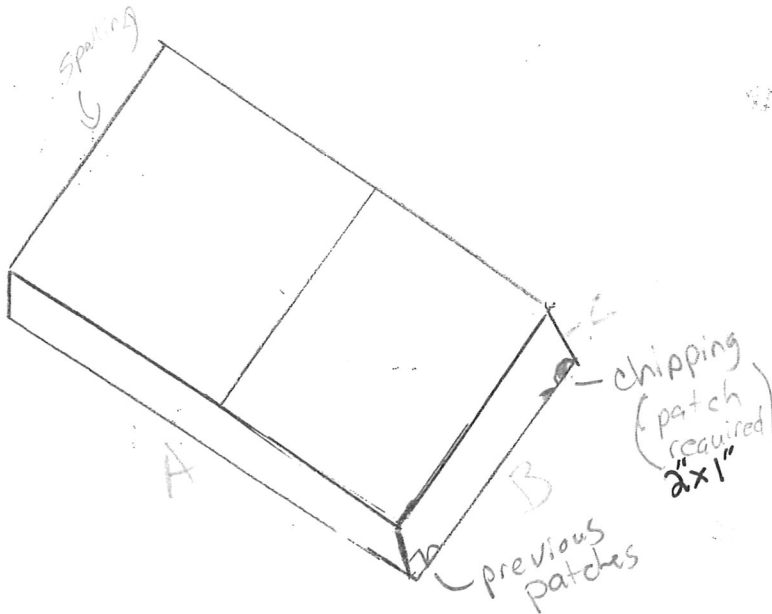
Location Drawing D4.04

Storage Drawing Area A, Row A, Stone 3

Stone ID No.

51RW

Side B inside stairs SKETCH



Location	Length (in)	
Overall Dimensions		
A	71 3/4	
B	45 1/2	
C	13 7/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Moderate chipping, Previous Patching discolored
Spawls on outside bed joint

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair Patch
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8/3/22

WDP/GSD Representative:

C. Villa
(Print)

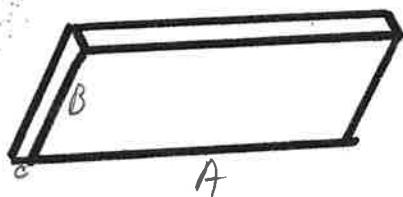
C. Villa
(Signed)

Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.03 Fig 3
Storage Drawing _____

SKETCH



Stone ID No.
51UE

Location	Length (in)	
Overall Dimensions:		
A	54 5/8	
B	21 1/4	
C	37 8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

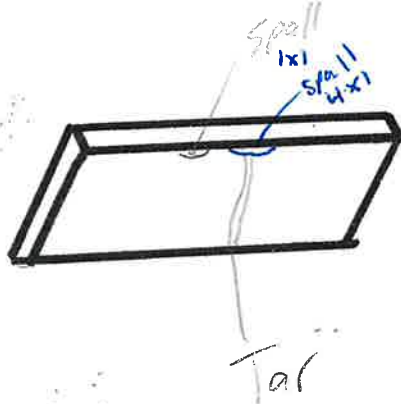
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

51UW

Location	Length (in)	
Overall Dimensions		
A	54 7/8	
B	2 1/4	
C	4 1/2	5 1/2
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on top edge left of center
Tar running down face right of center

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-8-22

WDP/GSD Representative:

Crilla
(Print)

(Signed)

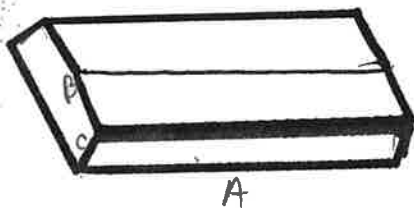
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 fig 2

Storage Drawing _____

SKETCH



Stone ID No.
53SE

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

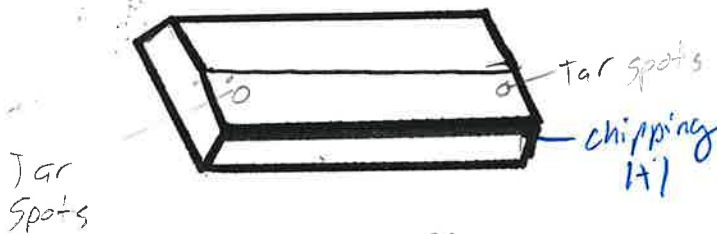
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

53SW

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Tar spots on top

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: .1 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Avila
(Print)

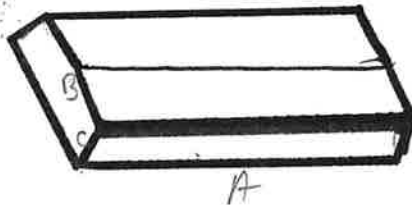
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Ag 3
Storage Drawing _____

SKETCH



Stone ID No.
53TE

Location	Length (in)	
Overall Dimensions		
A	45 1/2	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

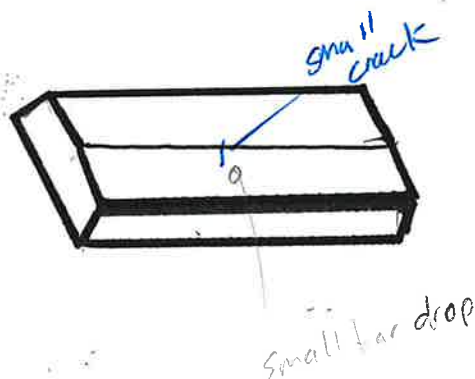
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

53TW

Location	Length (in)	
Overall Dimensions:		
A	45 5/8	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small tar drop on top

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Avika
(Print)

(Signed)

Date: 9-20-22

Stone Survey Sheet

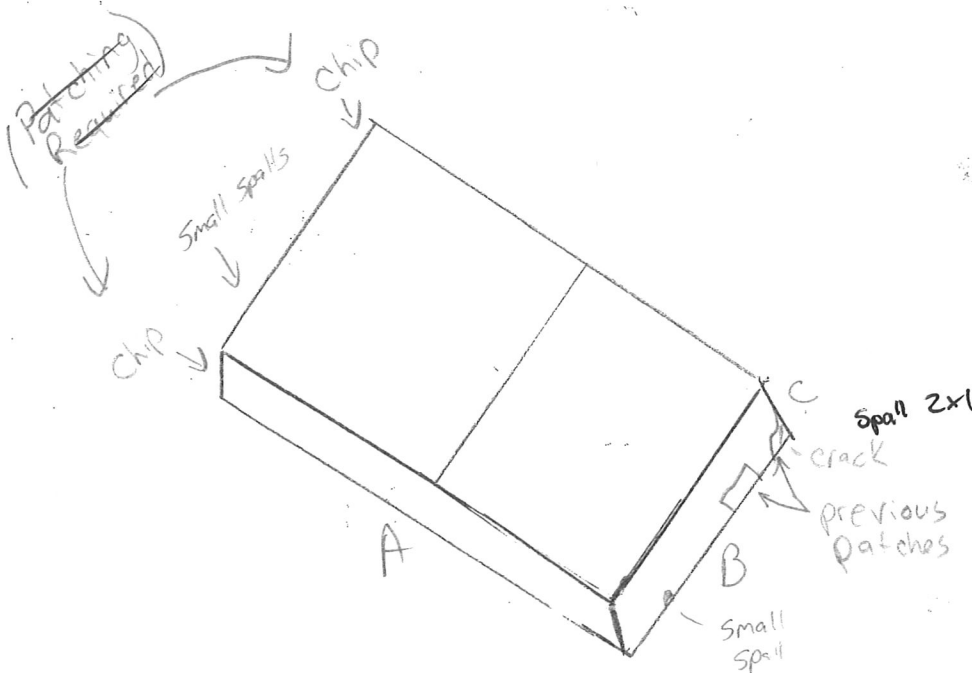
Location Drawing D4.03

Storage Drawing Area B, Row C, Stone 4

Bside inside stairs SKETCH

Stone ID No.

54RE



Location	Length (in)	
Overall Dimensions:		
A	71 ⁷ / ₈	
B	45 ⁵ / ₈	
C	13 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spalls along outside bed joint
 Small spall on Bside bed joint
 Small crack Bside corner
 Previous patches Bside bottom right
 Chip on both outside bottom corners

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Both outside corners
- Patching required? Yes No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

[Signature]
 (Signed)

Date: 8/4/22

WDP/GSD Representative:

P Dillon
 (Print)

[Signature]
 (Signed)

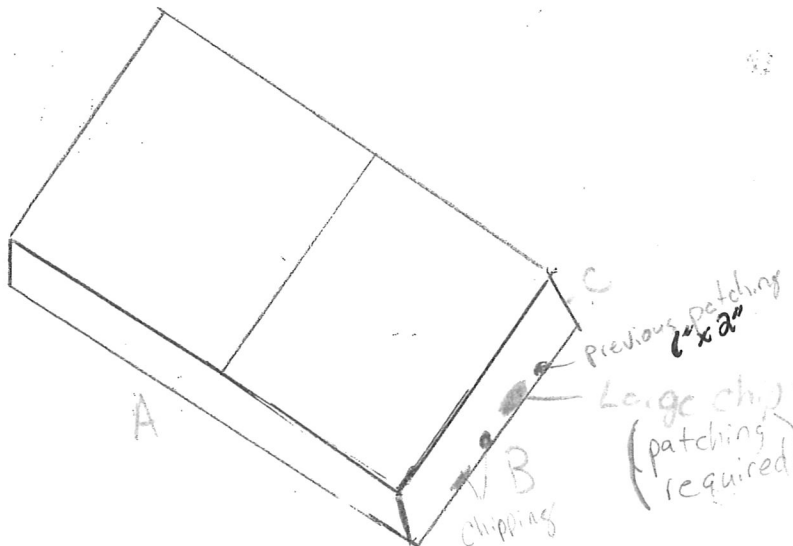
Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing Area A, Row A, Stone 4

Side B. inside stairs

SKETCH



Stone ID No.

54RW

Location	Length (in)	
Overall Dimensions:		
A	71 7/8	
B	45 9/16	
C	13 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large chipped area on bed joint B side
Previous patching
chipping along bed joint

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Patching
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 103 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8/3/22

WDP/GSD Representative:

C. Villar
(Print)

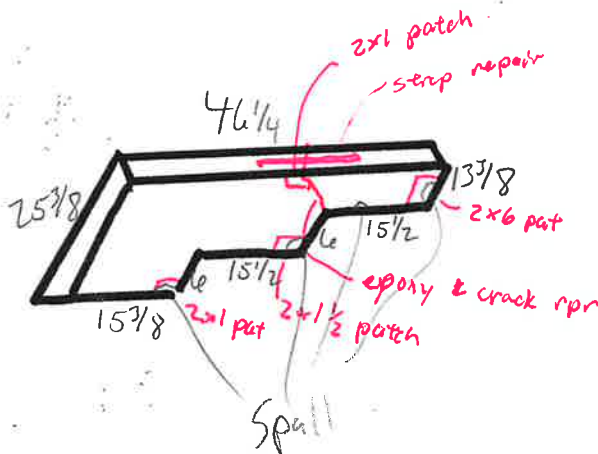
C. Villar
(Signed)

Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.03 fig 3
Storage Drawing _____

SKETCH



Stone ID No.

55UE

Location	Length (in)	
Overall Dimensions		
A	46 1/4	
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spalls along bottom and right edge at stairs

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Serp, epoxy, crack repair 10"
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 19 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

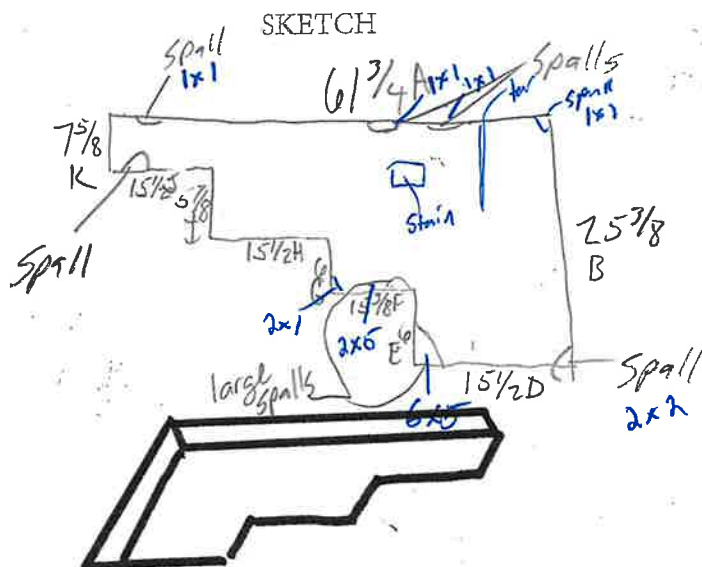
P Diller
(Print)

(Signed)

Date: 9/21/22

Location Drawing 04.04
Storage Drawing _____

55 UW



Location	Length (in)	
Overall Dimensions:		
A	6 1/4	
B	25 3/8	
C	4	
	Left	Right
D	15 1/2	
E	6	
F	15 3/8	
G	6	
H	15 1/2	
I	5 7/8	
J	15 1/2	
K	7 5/8	
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

- Spalls along top edge
- Spall on bed joint with stair 58BW
- Spall on bed joint with 56BW + on head joint with 56BW
- Spall on bottom right corner

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 50 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Scott Johnson
(Print)

(Signed)

Date: 9-8-22

CV:11a
(Print)

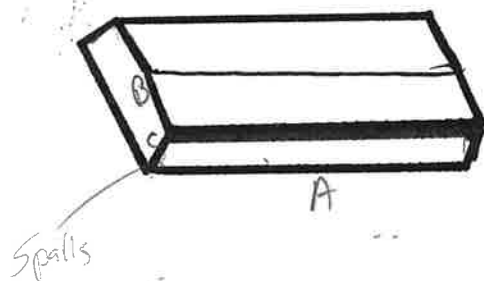
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 fig 2
Storage Drawing _____

SKETCH



Stone ID No.
56SE

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 spalls on head joint + left side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lphman
(Print)

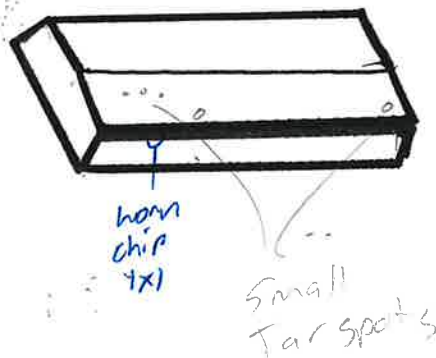
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
56SW

Location	Length (in)	
Overall Dimensions		
A	45 1/2	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small tar spots on top

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Chilla
(Print)

(Signed)

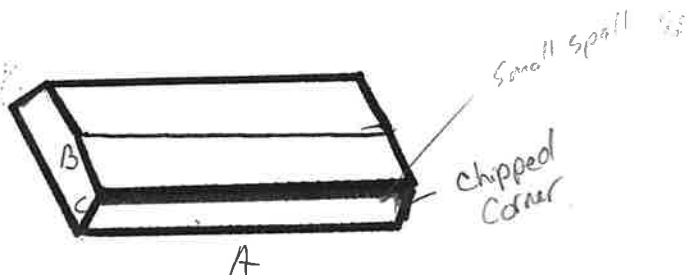
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Fig 3

Storage Drawing _____

SKETCH



Stone ID No.

56TE

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chipped corner top right of face
Small spall top edge on right side near corner

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

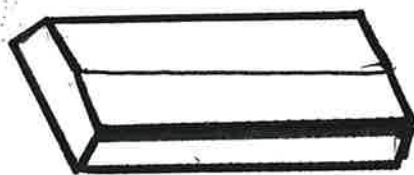
[Signature]
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

56TW

Location.	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

aviln
(Print)

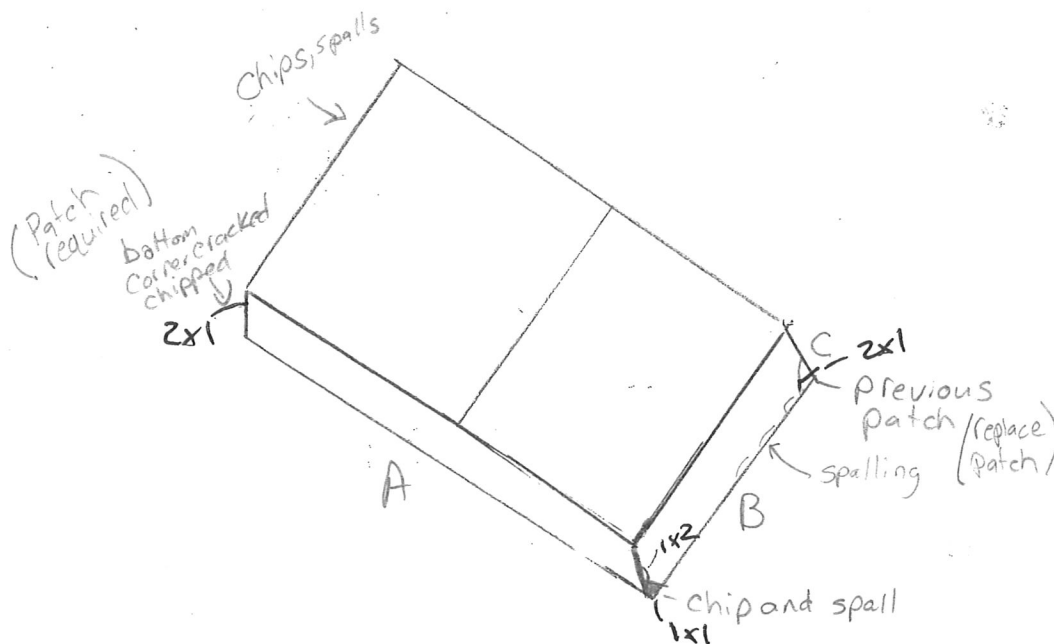
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03
Storage Drawing Area B, Row B, Stone 1

B side inside stairs SKETCH



Stone ID No.

57RE

Location	Length (in)	
Overall Dimensions:		
A	71 ¹³ / ₁₆	
B	45 ¹ / ₂	
C	13 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous patch on B side bottom right corner
Chip and spall on B side bottom left corner
Cracking and chipping outside bottom corner
spalls + chips left side of outside bed joint
Spalling along bed joint B side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair: replacement patch
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1/5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

P Dillon

(Print)

(Signed)

Date: 8/4/22

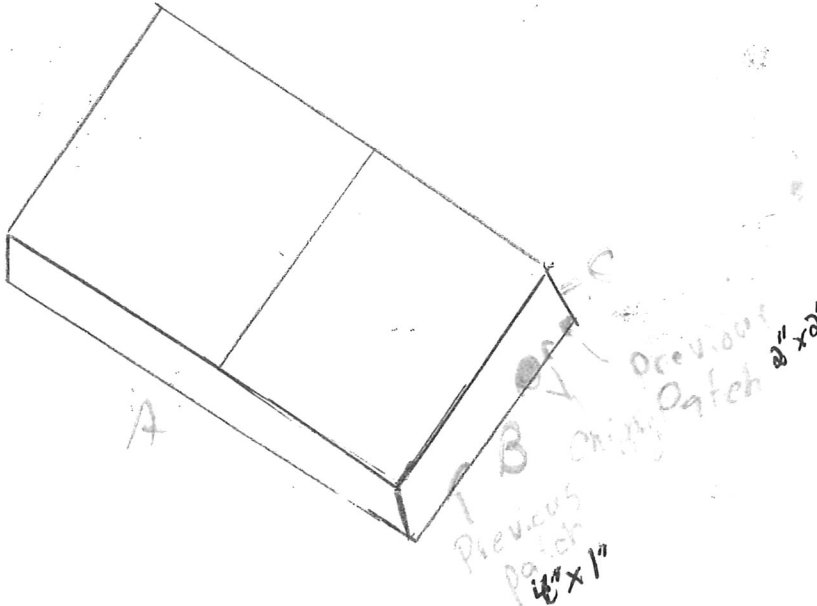
Stone Survey Sheet

Location Drawing D4.00
Storage Drawing Acas A. Row A, Stone 5

Stone ID No.

57 RW

Side B inside stairwell SKETCH



Location	Length (in)	
Overall Dimensions:		
A	71 13/16"	
B	45 7/16"	
C	13 1/8"	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patches, chipping bottom edge B side

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Edge Spall
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8/3/22

WDP/GSD Representative:

C. Villar
(Print)

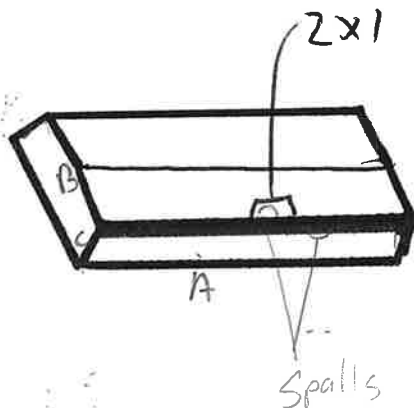
C. Villar
(Signed)

Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.
59SE

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17 1/8	
C	14 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

2 spalls on top edge of face on right side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Johnson
(Print)

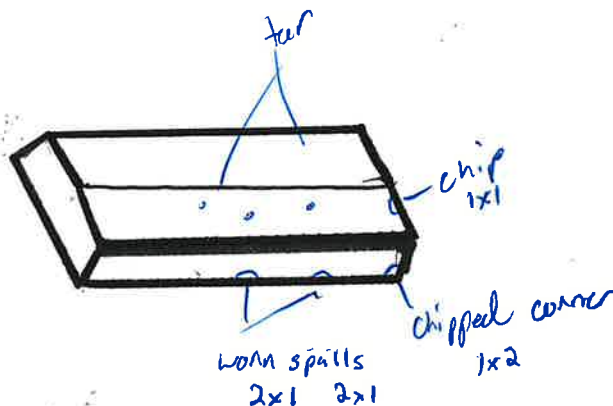
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
59SW

Location	Length (in)	
Overall Dimensions		
A	45 1/2	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 7 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Avilla
(Print)

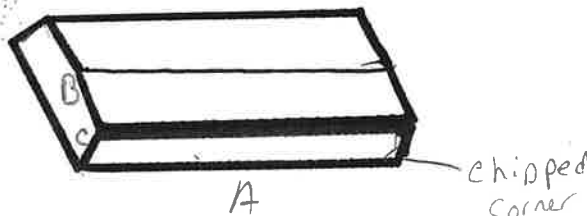
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Fig 3
Storage Drawing _____

SKETCH



Stone ID No.
59TE

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Chipped corner bottom right of face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-17-22

WDP/GSD Representative:

Chris Lehman
(Print)

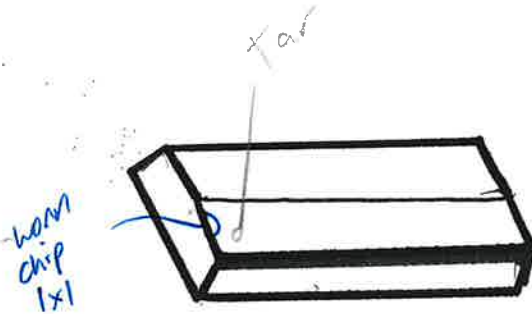
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
59TW

Location	Length (in)	
Overall Dimensions:		
A	45 1/2	
B	17 1/4	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

tar drop on top left side

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

Cvillar
(Print)

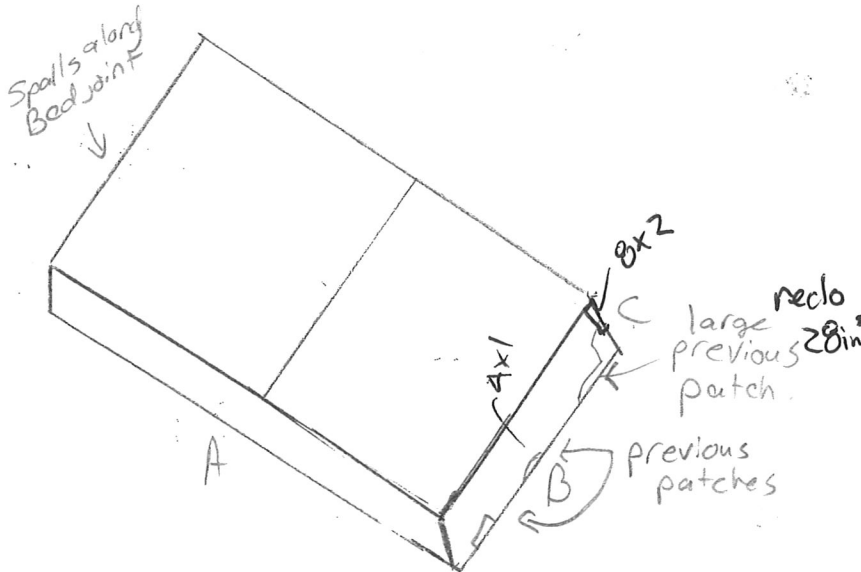
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03
Storage Drawing Area B, Row B, Stone 2

B side inside stairs SKETCH



Stone ID No.

61 RE

Location	Length (in)	
Overall Dimensions		
A	71 ⁷ / ₈	
B	45 ¹ / ₄	
C	13 ¹ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large previous patch along B side bed joint
Previous patches Left side of B side bed joint
Spalling along outside bed joint

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4.8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

P Dillon
(Print)

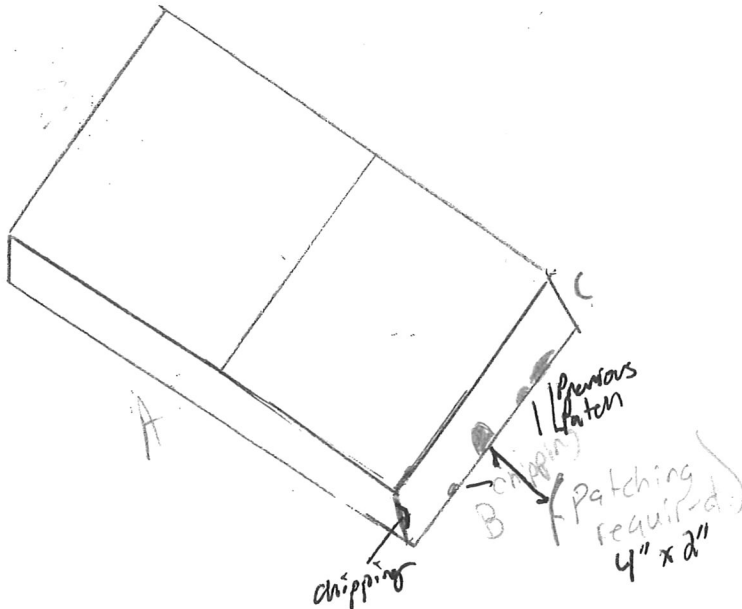
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Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing Area A Row B Stone 1

SKETCH



Stone ID No.

61 RW

Location	Length (in)	
Overall Dimensions:		
A	72"	
B	45 ³ / ₄	
C	13 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chips and spalls at Bottom + Leftside
Spawls on outside head joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Edge Spall
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☒ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-2-22

WDP/GSD Representative:

C. Villar
(Print)

[Signature]
(Signed)

Date: 8/4/22

PI YWOOD

Stone Survey Sheet

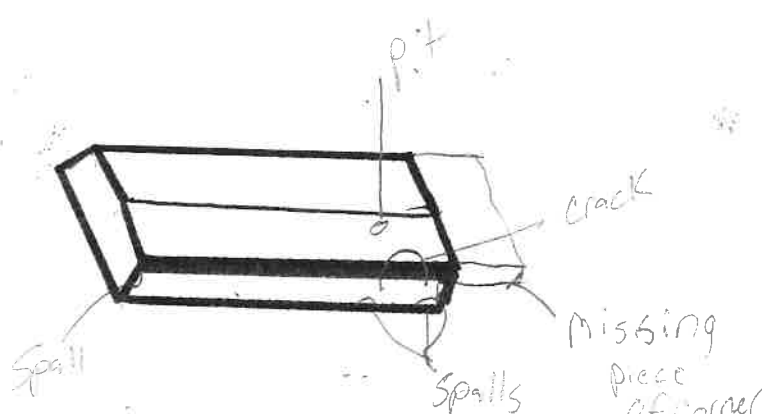
Location Drawing D4.03

Storage Drawing _____

SKETCH

Stone ID No.

WISE



Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Pit on top of stone right of center
 Crack on right side of top + top edge
 Spalls along bottom right corner of face
 Chipped off/missing piece on far right corner
 Spall on left head joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

(Print)

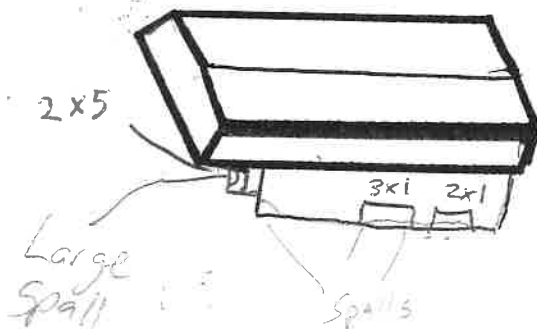
(Signed)

Date: _____

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

WISW

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large spall at left joint of face at stair riser meeting
spalling along bottom joint at meeting with stair tread

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 15 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-22-22

WDP/GSD Representative:

P Diller
(Print)

[Signature]
(Signed)

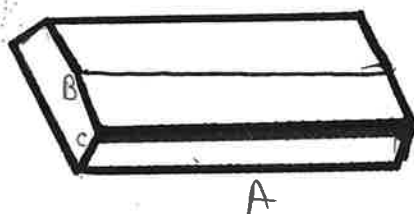
Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.03 Fig 3

Storage Drawing _____

SKETCH



Stone ID No.

WITE

Location	Length (in)	
Overall Dimensions		
A	3 1/4	
B	1 7/8	
C	1 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Uhman
(Print)

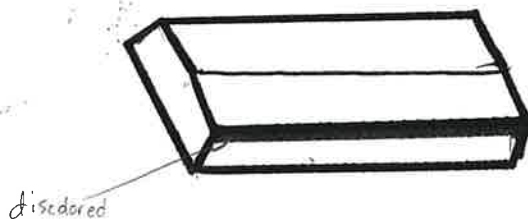
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

WITW

Location	Length (in)	
Overall Dimensions:		
A	31 3/4	
B	17 1/4	10 3/8
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

discoloration/Patch? top left corner of face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-7-22

WDP/GSD Representative:

CVilla
(Print)

(Signed)

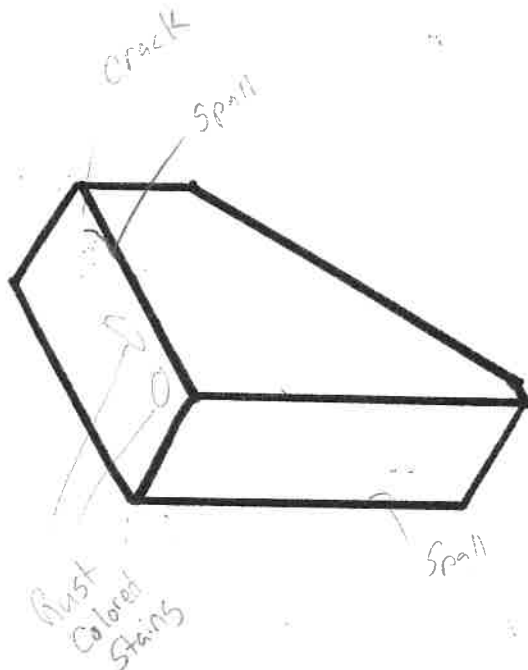
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03

Storage Drawing _____

SKETCH



Stone ID No.

70UE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack on top joint of east face
 Spall on top joint of east face
 Rust colored stains on east face
 Spall on bottom joint of south face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

(Print)

(Signed)

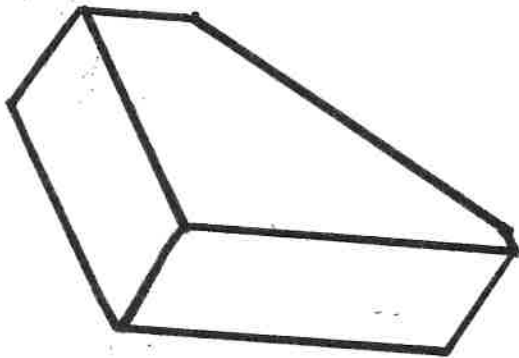
Date: _____

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

70 ~~W44~~ **U**

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 0 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Johnson
(Print)

(Signed)

Date: 9/23/22

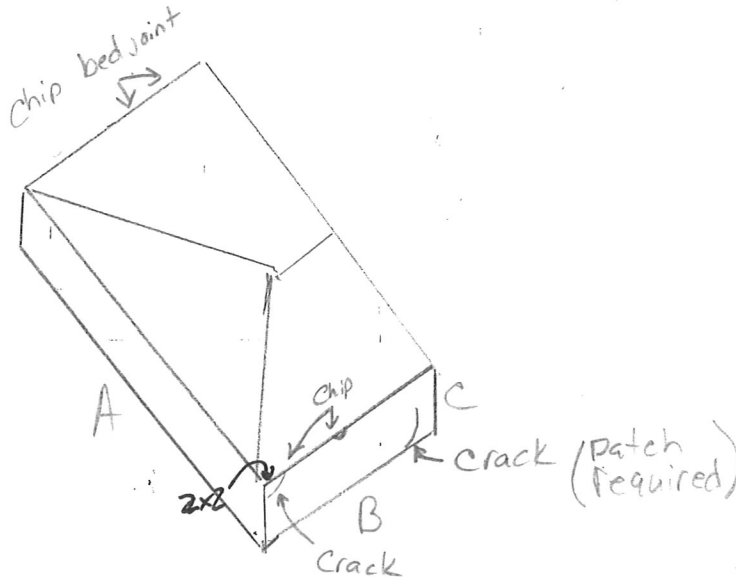
STONE SURVEY SHEET

Stone ID No.

71 RE

Location Drawing D4.03Storage Drawing Area B, Row B, Stone 3

B side inside stairs



Location	Length (in)	
Overall Dimensions		
A	71 13/16	
B	47 9/16	
C	13 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Large crack B side bottom right corner
 Chips B side top edge
 Crack B side top left corner
 Discoloration around pipe cap on top face
 Chips outside bed joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Corner Repair
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4.4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

P Dillon
 (Print)

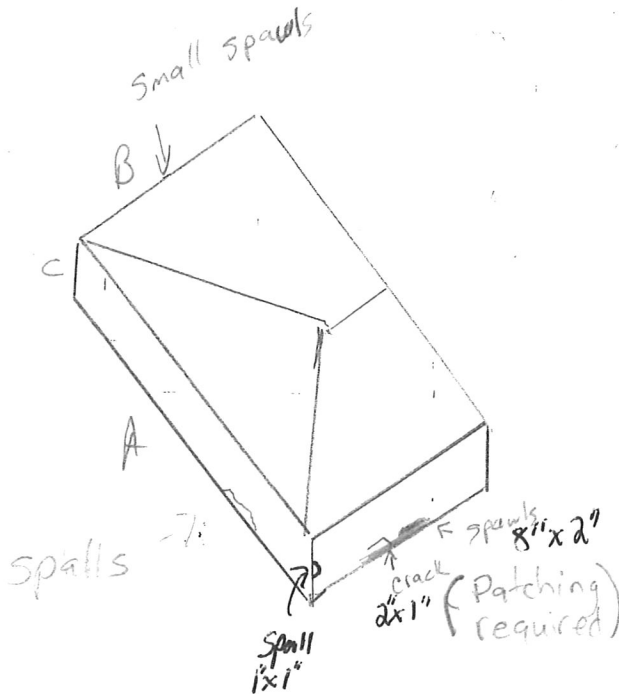
(Signed)

Date: 8/4/22

STONE SURVEY SHEET

Stone ID No.

71 RW

Location Drawing D4.04Storage Drawing Area A, Row B, Stone 2

Location	Length (in)	
Overall Dimensions		
A	71 7/8	
B	47 1/2	
C	13 3/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spawls along bed joint B side
 Spalls along bed joint A side
 Spawling and cracks along bed joint outside

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Patching
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 19" [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☒ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative: Scott Johnson
(Print)Scott Johnson
(Signed)Date: 8/3/22

WDP/GSD Representative:

C. Wills
(Print)C. Wills
(Signed)Date: 8/4/22

P11VW002

Stone Survey Sheet

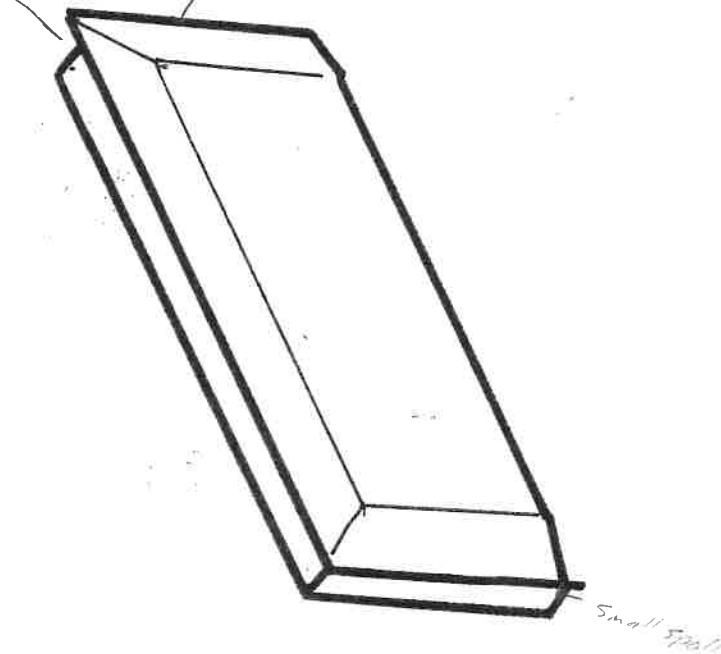
Location Drawing D4.03 Dig 1
Storage Drawing _____

Stone ID No.

717E

Rust colored stain on rounding
small spall on top edge

SKETCH



Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Rust colored stain on rounding of east face
small spall top edge of east face
small chip on corner at joint of west face

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

[Signature] Date: 9-22-22
(Signed)

WDP/GSD Representative: _____
(Print)

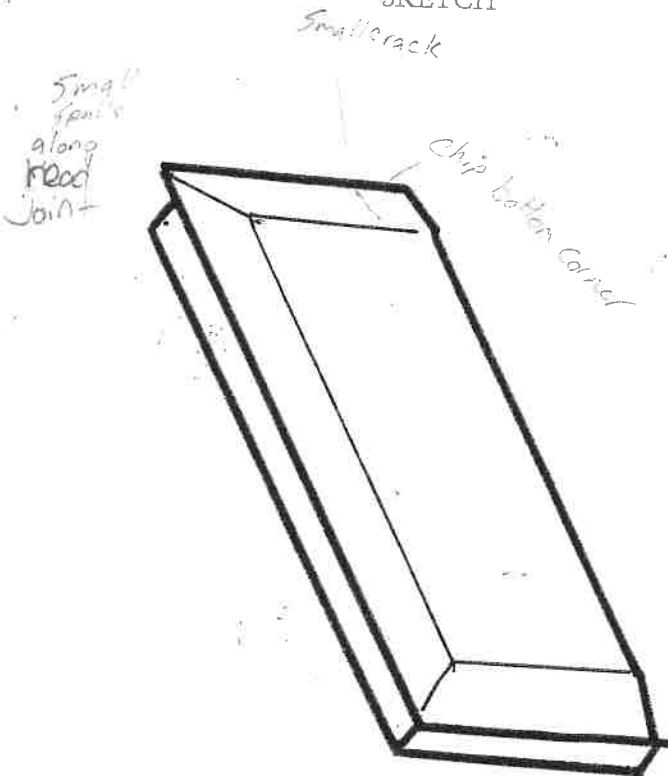
(Signed) Date: _____

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

Stone ID No.
71TW

SKETCH



Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls along east facing head joint
Small crack on top east side
Chip on bottom left corner of east face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris (Phman)
(Print)

(Signed)

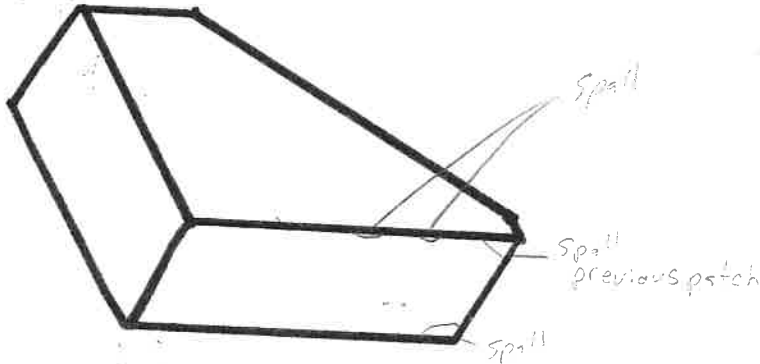
Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.03

Storage Drawing _____

SKETCH



P1 Ywood

Stone ID No.

71UE

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 spalls on west face on right side of top joint
 Spall on bottom right corner of west face
 previous patch with spall top right corner of west face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
 (Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

(Print)

(Signed)

Date: _____

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

Dutchman

SKETCH

2x1

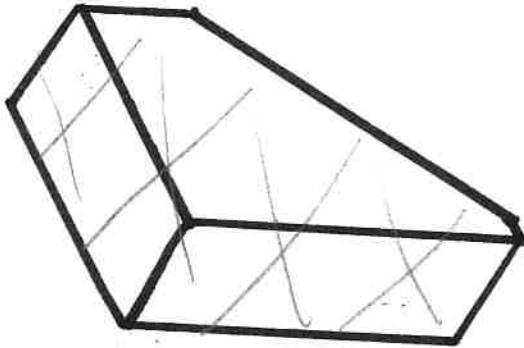
1x1

9x5x3

Cracks

1x1

Spall



Stone ID No.

711W

Location	Length (in)	
Overall Dimensions:		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall bottom right corner of South Face
Cracks top left of east face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 139 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

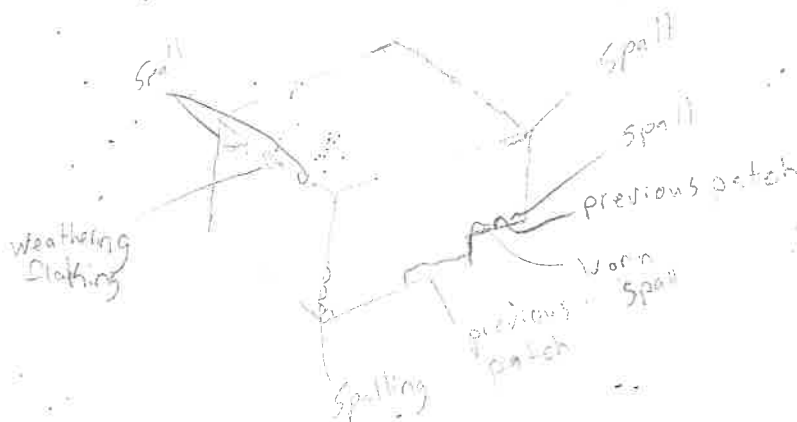
Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.03

Storage Drawing _____

SKETCH



PLYWOOD

Stone ID

71WE

Location	Length (in)
Overall Dimensions	
A	
B	
C	
Mortar Joints	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 Spalls on top joint on south face; top left corner + left of center
 weathering/flaking on south face left side of top joint
 spalling on bottom of south west corner
 previous patch at joint with 6/SE
 previous patch + spalling along joint with stair tread
 Spall top joint right side of west face

Stone cleaning recommended: Minor / Moderate to heavy

Type of repair _____

Patching required? Yes / No (if yes, shade the area on the sketch)

Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

(Print)

(Signed)

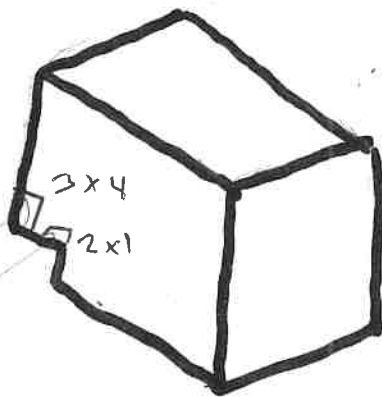
Date: _____

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID

71Ww

Location	Length (ft)
Overall Dimensions	
A	
B	
C	
Joint	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 spalls on east face bottom left around stain

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 14 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 7-22-22

WDP/GSD Representative:

Chirleahman

(Print)

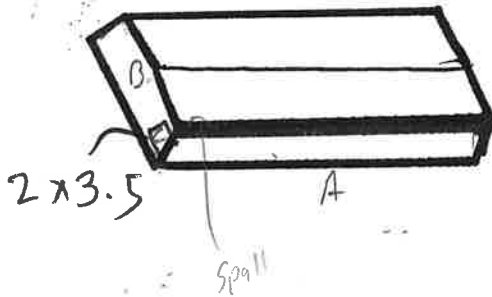
(Signed)

Date: 7/23/22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.
72SE

Location.	Length (in)	
Overall Dimensions:		
A	45 1/8	
B	17 1/8	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0.7 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehmann
(Print)

[Signature]
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing 04.04
Storage Drawing _____

SKETCH



Chip
1x1

Spalling
on
rounding
2x4

Stone ID No.
72SW

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chip near center of nose
Spalls on rounding of face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 9 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

C. Vella
(Print)

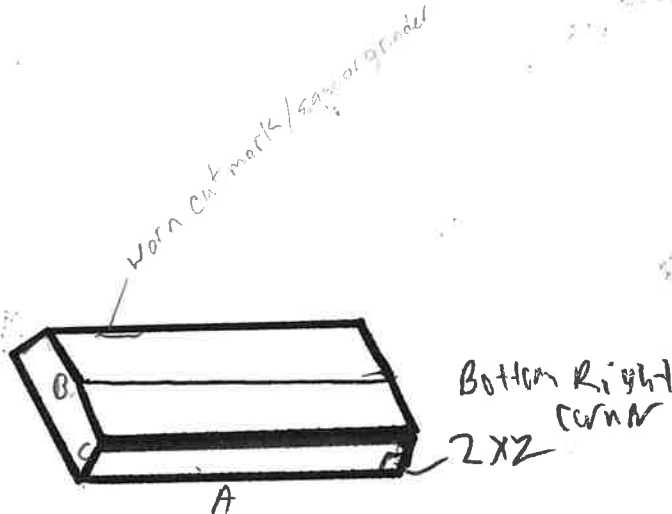
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Fig 3
Storage Drawing _____

SKETCH



Stone ID No.
72TE

Location	Length (in)	
Overall Dimensions:		
A	45	
B	17 1/8	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
worn cut marks / grinder marks on back joint on top of stone

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

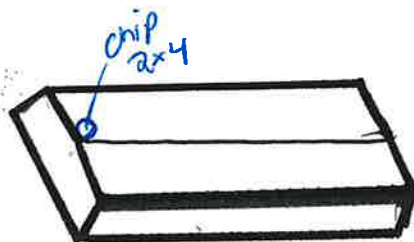
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

72TW

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Chilla
(Print)

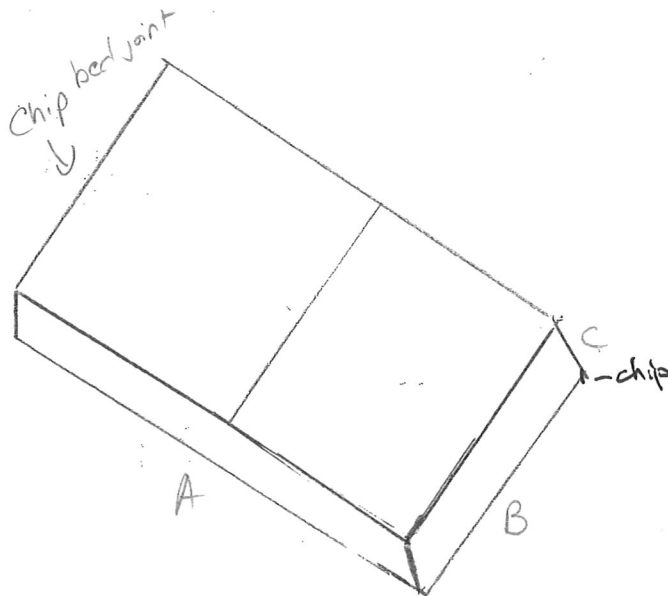
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03
Storage Drawing Area B, Row B, Stone 4

B side inside stairs SKETCH



Stone ID No.

74RE

Location	Length (in)	
Overall Dimensions		
A	71 ³ / ₄	
B	45 ¹ / ₁₆	
C	13	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Chip at outside bed joint

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing Area A, Row B, Stone 3

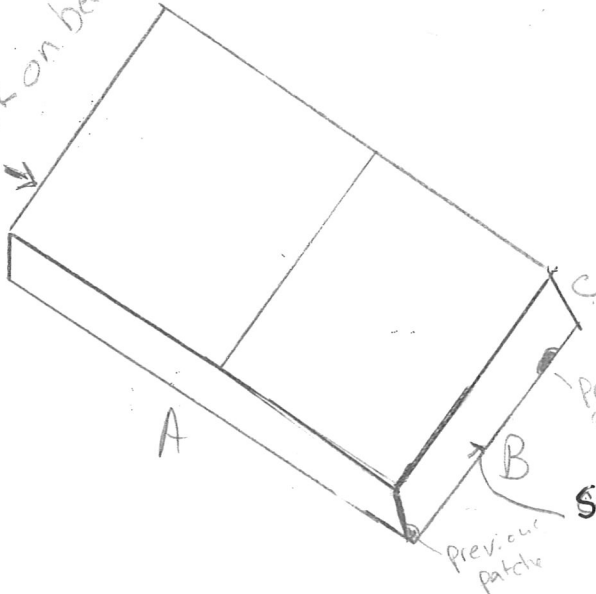
Stone ID No.

74 RW

SKETCH

B side inside stairs

Crack on bed joint



Location	Length (in)	
Overall Dimensions:		
A	71 ⁷ / ₈	
B	45 ¹ / ₂	
C	13 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patching discolored + deteriorating
Diagonal crack on outside bed joint
Large Crack on B side bed joint

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone-ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Patching
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 4 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative: Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8/3/22

WDP/GSD Representative:

C Villan
(Print)

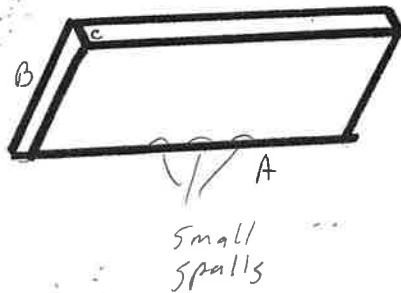
C Villan
(Signed)

Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.
744E

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17 3/4	
C	4 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

3 small spalls along bottom joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

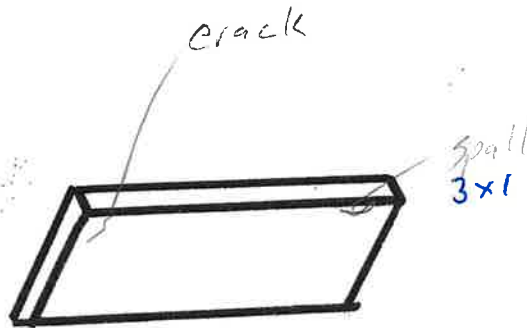
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
74UW

Location	Length (in)	
Overall Dimensions		
A	45 1/4	
B	17 3/4	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Crack top left corner
Spall top joint on right

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Willie
(Print)

(Signed)

Date: 9-20-22

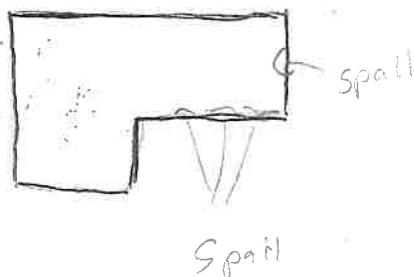
Plywood

Stone Survey Sheet

Location Drawing D4.03
Storage Drawing _____

Stone ID No
74 WE

SKETCH



Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalls along joint with stair tread
Spall on right joint

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: _____ [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

(Print)

(Signed)

Date: _____

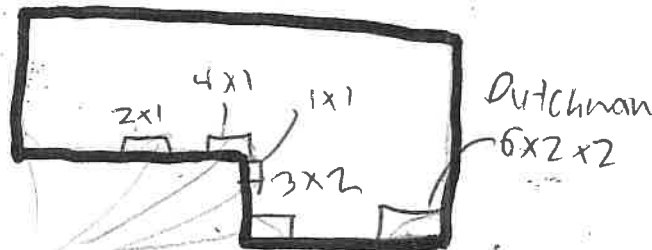
Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH

Stone ID **74WW**



Location	Length (in)
Overall Dimensions	
A	
B	
C	
Joint	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
Mortar Joints	
Side	
Top	
Bottom	

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Spalling around stair step

Broken / missing piece bottom right corner

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☐ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 37 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-22-22

WDP/GSD Representative:

Chris Johnson

(Print)

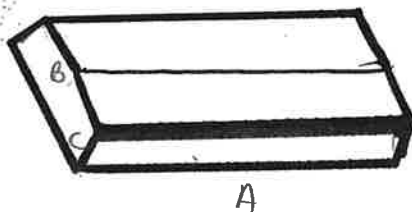
(Signed)

Date: 9/23/22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.
75SE

Location	Length (in)	
Overall Dimensions		
A	45 1/4	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Checklist**
- ☒ Photographed prior to removal
 - ☒ Add building reference points for existing location
 - ☐ Existing conditions prevent removal per rigging plan
 - ☒ Photographed after removal
 - ☒ Documentation of areas to be patched
 - ☒ Labeled with Stone ID
 - ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Tar on corner

previous
patch
5x1

Stone ID No.

75SW

Location	Length (in)	
Overall Dimensions:		
A	45 1/8	
B	17	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Tar on top right corner of face

Previous patch bottom right corner of face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 5 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-12-22

WDP/GSD Representative:

Avilla
(Print)

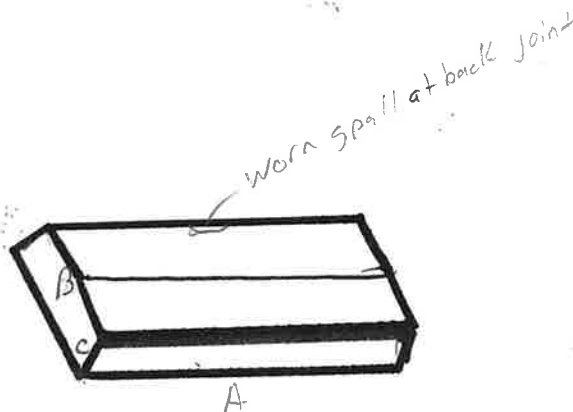
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(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Fig 3
Storage Drawing _____

SKETCH



Stone ID No.
75TE

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):
Worn spall at back joint on top of stone

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lphman
(Print)

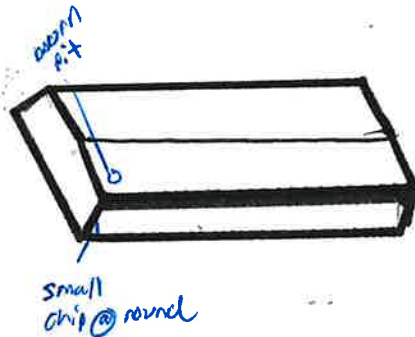
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
75TW

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in³]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Culla
(Print)

(Signed)

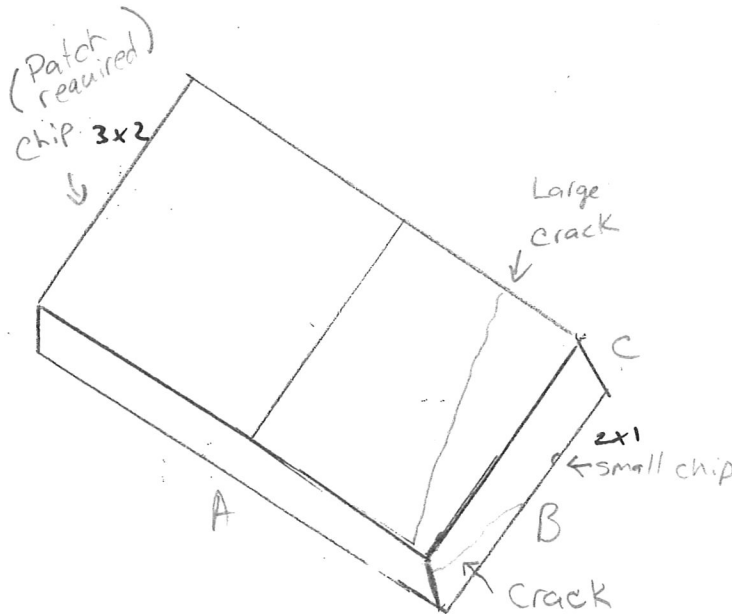
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03
 Storage Drawing Area B, Row A, Stone 1
B side inside stairs SKETCH

Stone ID No.

76 RE



Location	Length (in)	
Overall Dimensions:		
A	71 ³ / ₄	
B	45 ³ / ₁₆	
C	13 ³ / ₁₆	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Large chip on outside near center of bed joint
- Small chip B side bed joint
- Large crack B side starting on left head joint running diagonally to near center of bed joint
- Large crack on top face of stone running entire length

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Patch & crack repair **No crack repair to be performed**
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 8 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8/4/22

WDP/GSD Representative:

P Dillen
(Print)

[Signature]
(Signed)

Date: 8/4/22

Stone Survey Sheet

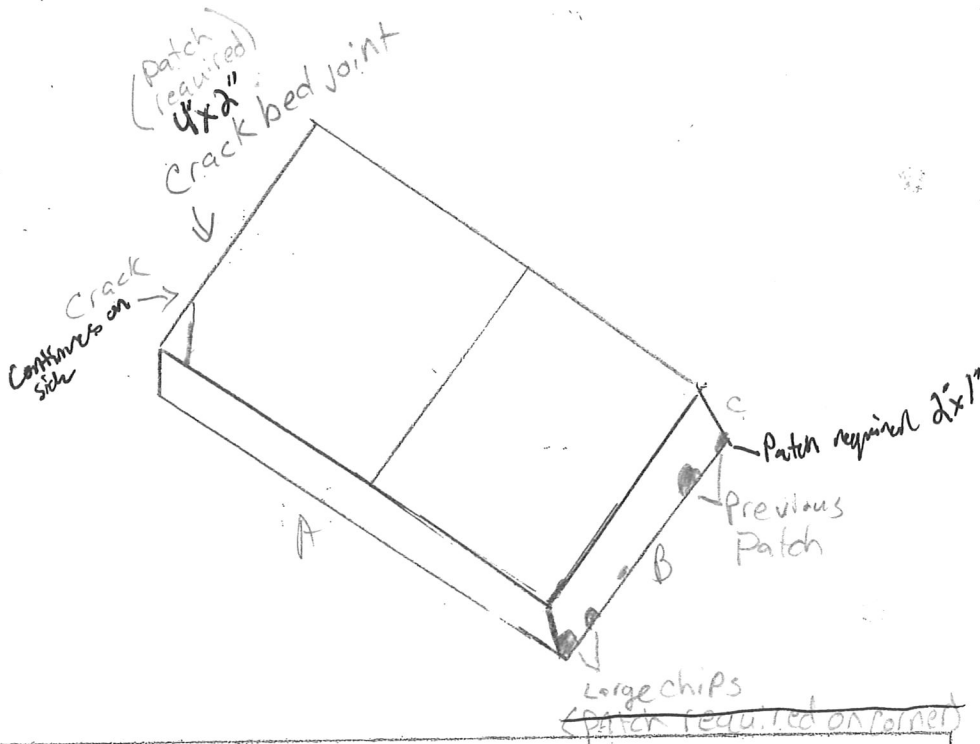
Location Drawing D4.04
Storage Drawing Area A, Row B, Stone 4

Stone ID No.

76 RW

SKETCH

Bside inside stairs



Location	Length (in)	
Overall Dimensions:		
A	71 ⁷ / ₈	
B	45 ¹ / ₄	
C	13 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Crack on top near outside corner
Large chips on Bside left corner
2 previous patches Bside right corner
Crack near center of outside bed joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Patching
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8/3/22

WDP/GSD Representative:

C. Miller
(Print)

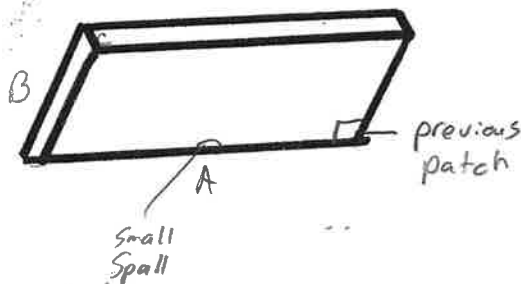
C. Miller
(Signed)

Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.
764E

Location	Length (in)	
Overall Dimensions:		
A	52	
B	17 ³ / ₄	
C	4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small spall near center of bottom joint
Previous patch bottom right corner

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

766W

Location	Length (in)	
Overall Dimensions:		
A	51 7/8	
B	15 3/4	
C	3 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Willu
(Print)

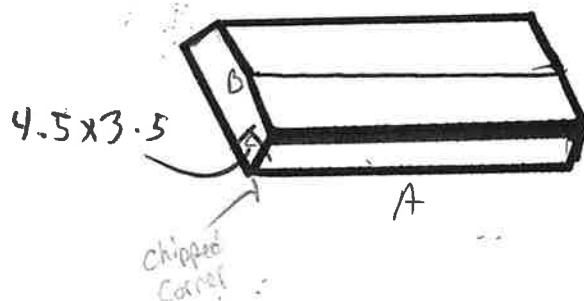
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.

78SE

Location	Length (in)	
Overall Dimensions		
A	45 1/8	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 15.75 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

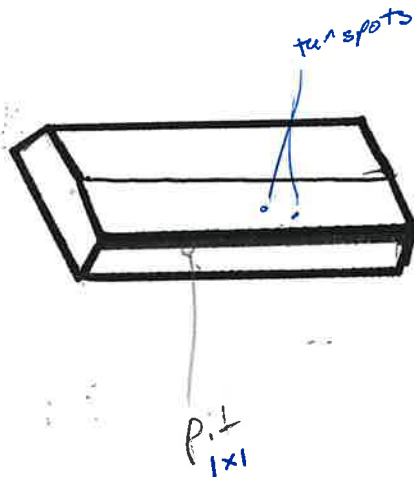
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Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

78SW

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17	
C	15	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

p.L on face
Wearing on face

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 1 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-12-22

WDP/GSD Representative:

Chilla
(Print)

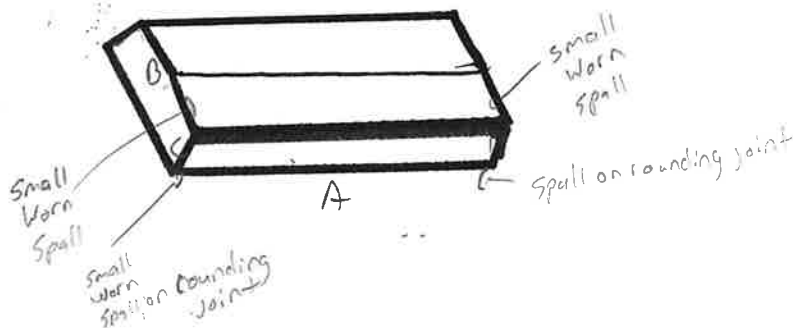
[Signature]
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Fig 3
Storage Drawing _____

SKETCH



Stone ID No.

T8TE

Location	Length (in)	
Overall Dimensions:		
A	45 7/8	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small worn spalls on top of stone left joint + right joint
Small worn spalls on face on left + right head joints
at rounding

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lhman
(Print)

(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Stone ID No.

78TW

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17	
C	14 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in^3]
- To be documented on ground after handling and storage*
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Avilla
(Print)

(Signed)

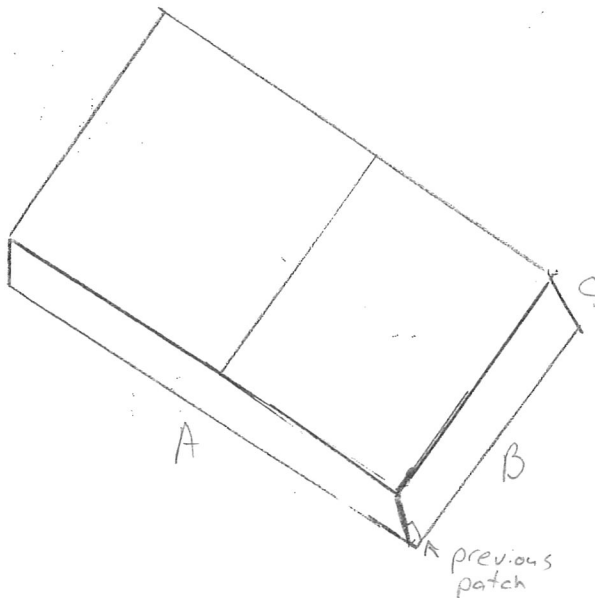
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03

Storage Drawing Area B, Row A, Stone 2

B side inside stairs SKETCH



Stone ID No.

80 RE

Location	Length (in)	
Overall Dimensions		
A	71 ⁷ / ₈	
B	45 ¹ / ₁₆	
C	13 ¹ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small previous patch B side Bottom Left corner

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 0 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

P Dillon
(Print)

(Signed)

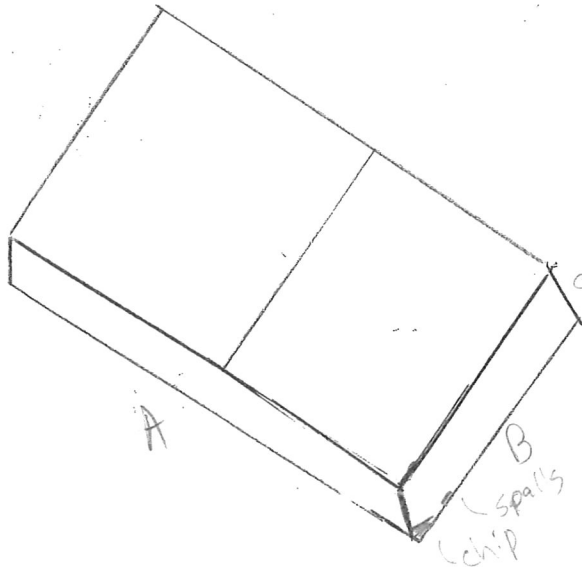
Date: 8/4/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing Area A, Row B, Stone 5

SKETCH

B side inside stairs



Stone ID No.

80 RW

Location	Length (in)	
Overall Dimensions:		
A	71 ³ / ₈	
B	45 ¹ / ₄	
C	13 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Corner Chipped B side
Spawling along B side bed joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Patching
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: _____ [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8/3/22

WDP/GSD Representative:

C. Miller
(Print)

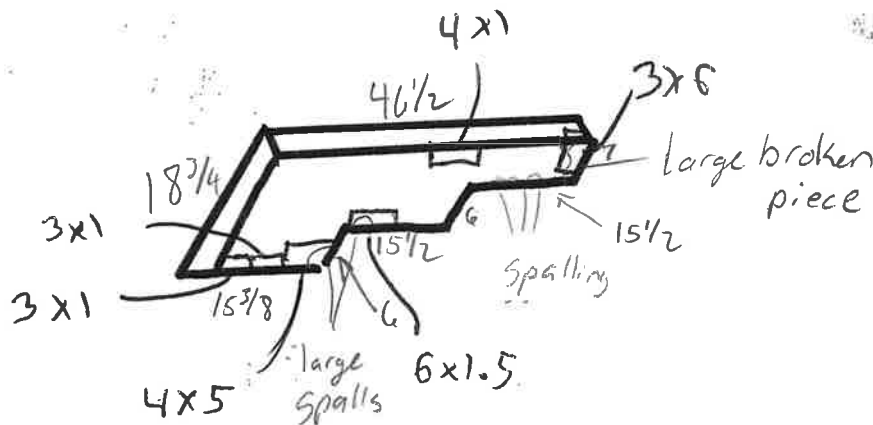
C. Miller
(Signed)

Date: 8/14/22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.

804E

Location	Length (in)	
Overall Dimensions		
A		
B		
C		
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

large spalls at corner joint with bottom stair + 2nd stair
Spalling along joint with top step
large broken piece right edge

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 57 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

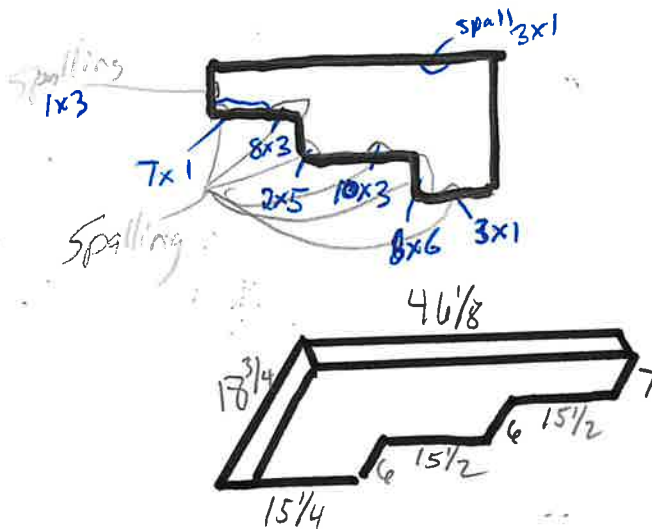
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing 04.04
Storage Drawing _____

SKETCH



Stone ID No.

804W

Location	Length (in)	
Overall Dimensions:		
A		
B		
C	4 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spalling along left head joint
Spalling all along bed joint at all stair corners

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 128 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☐ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-17-22

WDP/GSD Representative:

Avilla
(Print)

(Signed)

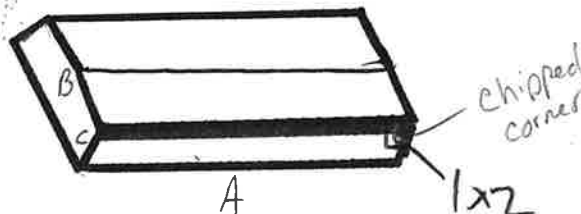
Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Fig 2

Storage Drawing _____

SKETCH



Stone ID No.
8ISE

Location	Length (in)	
Overall Dimensions:		
A	45 7/8	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

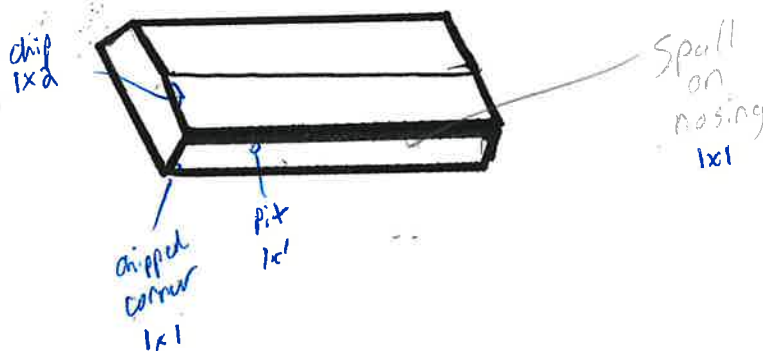
Date: 9/20/22

Stone Survey Sheet

Location Drawing 14.04

Storage Drawing _____

SKETCH



Stone ID No.

81SW

Location	Length (in)	
Overall Dimensions:		
A	45 7/8	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on nosing
Wear on face

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 5 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Cviller
(Print)

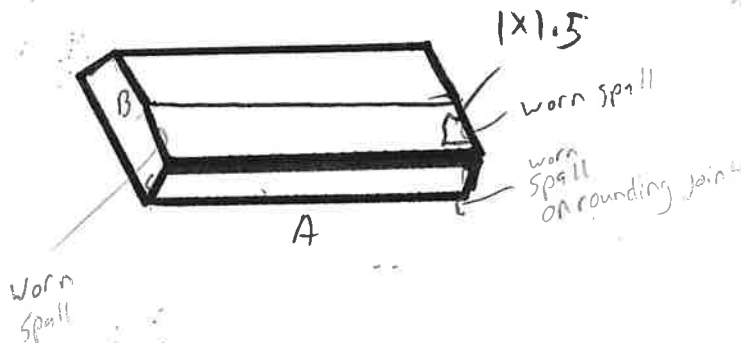
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 Fig 3
Storage Drawing _____

SKETCH



Stone ID No.
8ITE

Location	Length (in)	
Overall Dimensions:		
A	45	
B	17	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spall on top left joint + right joint
Worn spall on right joint of face on rounding

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1.5 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

(Signed)

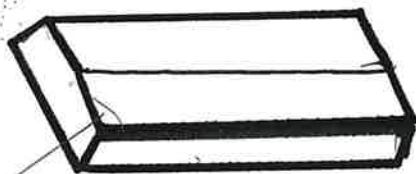
Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04

Storage Drawing _____

SKETCH



Chipped
corner
3x2

Stone ID No.

81TW

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17	
C	14 3/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

Chipped corner top left of face / bottom right of top
Pitting across top of stone

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 6 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

Crilk
(Print)

(Signed)

Date: 9-20-22

Stone Survey Sheet

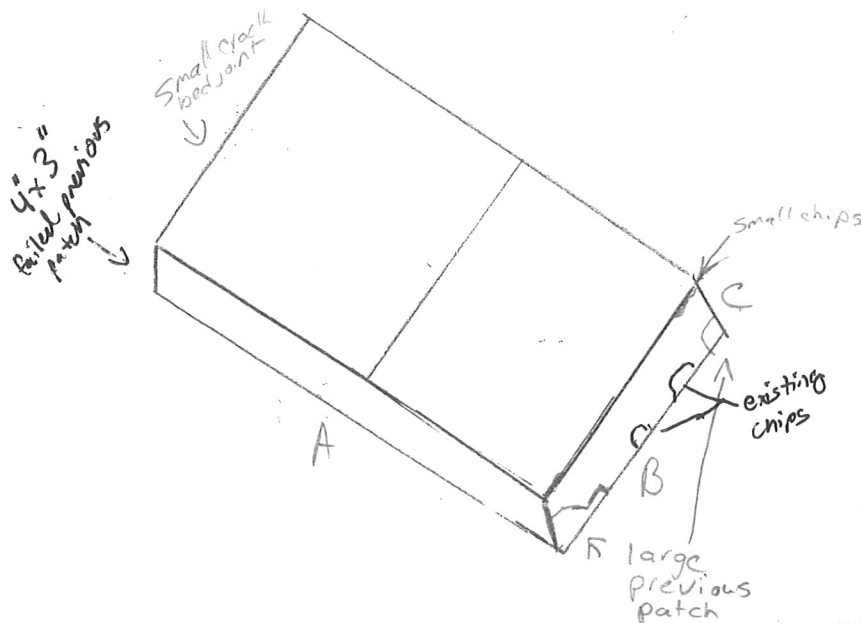
Location Drawing 04.03
Storage Drawing Area B, Row A, Stone 3

B side inside stairs

SKETCH

Stone ID No.

84 RE



Location	Length (in)	
Overall Dimensions		
A	71 7/8	
B	45 1/8	
C	13 1/16	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

- Small cracks near center of outside bed joint
- Two large previous patches on B side
- Small chips top right edge B side

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 12 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☐ Photographed after removal
- ☒ Documentation of areas to be patched
- ☐ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8/4/22

WDP/GSD Representative:

C. villa
(Print)

(Signed)

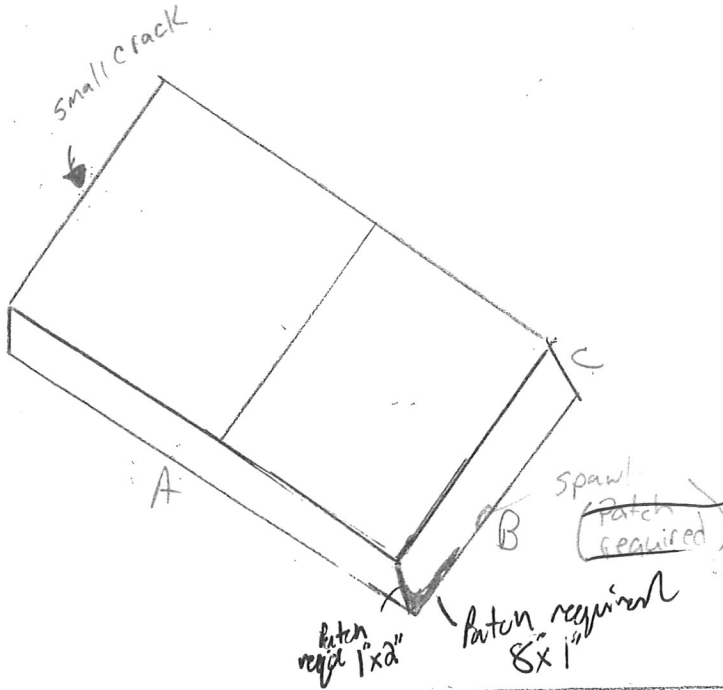
Date: 8/4/2022

Stone Survey Sheet

Location Drawing D4.041
Storage Drawing Area A, Row C, Stone 4

SKETCH

B side inside stairs



Stone ID No.

84RW

Location	Length (in)	
Overall Dimensions		
A	71 ⁷ / ₈	
B	45	
C	13 ³ / ₈	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patching along B side bed joint - discolored
Spawling on B side bed joint
Small crack outside bed joint

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair Patching
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 10 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

Scott Johnson
(Signed)

Date: 8/3/22

WDP/GSD Representative:

C. Willin
(Print)

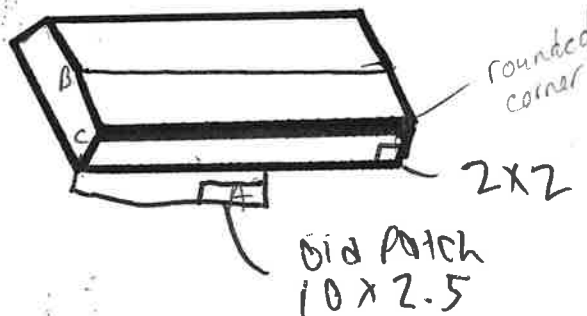
C. Willin
(Signed)

Date: 8/14/22

Stone Survey Sheet

Location Drawing D4.03 Fig 2
Storage Drawing _____

SKETCH



Stone ID No.

84SE

Location.	Length (in)	
Overall Dimensions:		
A	31	
B	17 1/8	
C	8 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls, Discoloration):

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2.9 [in³]
To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson

(Print)

(Signed)

Date: 9-14-22

WDP/GSD Representative:

Chris Lehman

(Print)

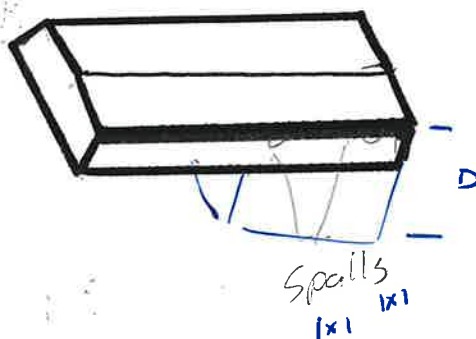
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing 114.04
Storage Drawing _____

SKETCH



Stone ID No.

84SW

Location	Length (in)	
Overall Dimensions:		
A	31 3/4	
B	16 1/2	
C	3 7/8	
	Left	Right
D	10"	
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Wear on face
2 worn spalls on nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 2 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-12-22

WDP/GSD Representative:

CVilla
(Print)

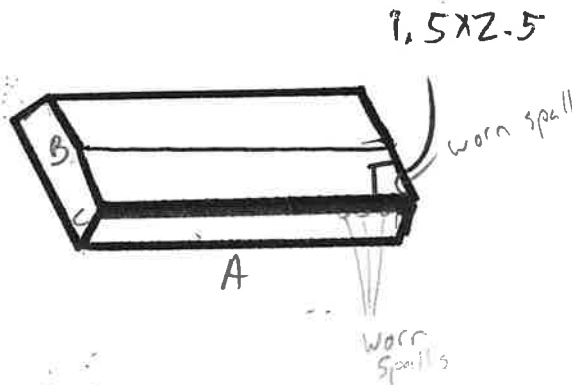
(Signed)

Date: 9-20-22

Stone Survey Sheet

Location Drawing D4.03 fig 3
Storage Drawing _____

SKETCH



Stone ID No.
84TE

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17 1/8	
C	14 1/2	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Worn spall on top on right joint
3 worn spalls on top edge of face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 3.75 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☐ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lhman
(Print)

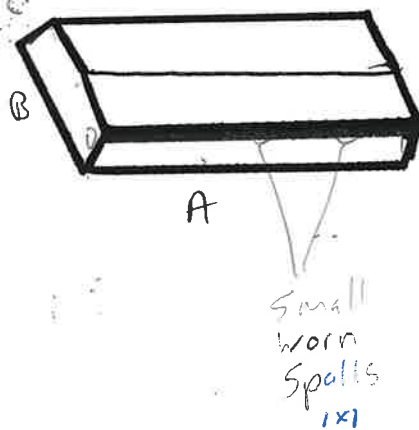
[Signature]
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.

84TW

Location	Length (in)	
Overall Dimensions:		
A	45 1/4	
B	17	
C	14 1/2	
	Left	Right
D	7 5/8	
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

2 Small worn spalls on nosing

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 1 [in^3]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-8-22

WDP/GSD Representative:

C. Villa
(Print)

(Signed)

Date: 9-20-22

Stone Survey Sheet

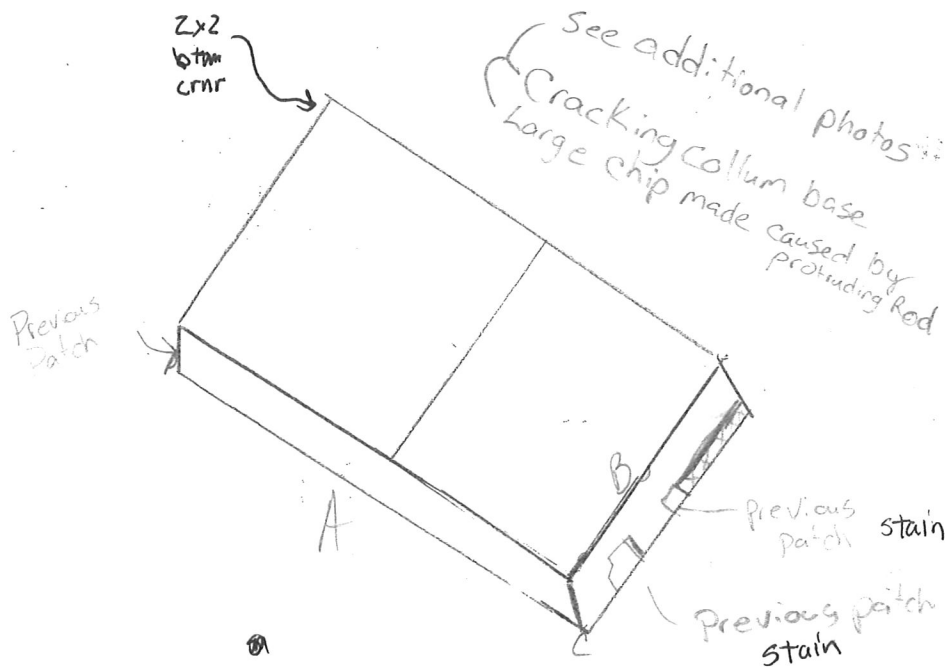
Location Drawing D4.03
Storage Drawing Area B, Row A, Stone 4

B side inside stairs

SKETCH

Stone ID No.

86 RE



Location	Length (in)	
Overall Dimensions:		
A	71 ⁷ / ₈	
B	47 ⁷ / ₈	
C	13 ¹ / ₄	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Previous Patch outside
2 large Previous Patches B side
= large crack in column base above
= Protruding Rod cause large chip in column base during removal

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☐ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair _____

• Patching required? ☒ Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 4 [in³]

staining: 40 in²

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / ☒ No

Contractor Representative:

Scott Johnson
(Print)

[Signature]
(Signed)

Date: 8-8-22

WDP/GSD Representative:

P Dillon
(Print)

[Signature]
(Signed)

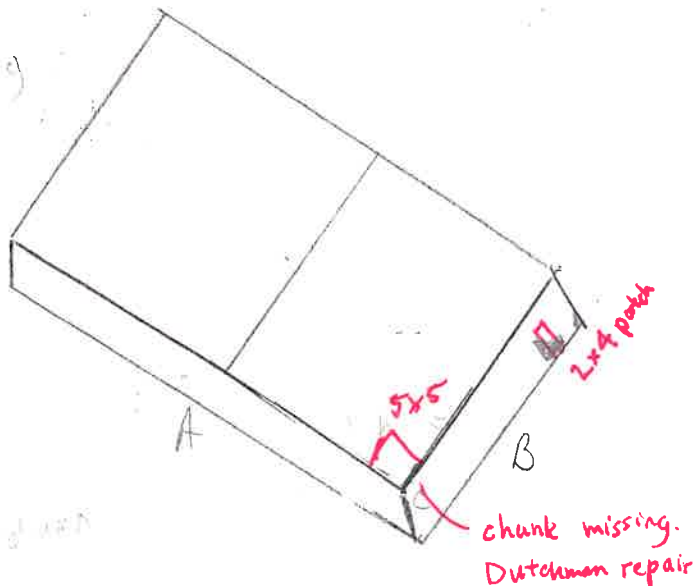
Date: 8/10/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing Area A, Row C, Stone 5

SKETCH

B side inside stairs



Stone ID No.

86 RW

Location	Length (in)	
Overall Dimensions:		
A	72	
B	52	
C	13 1/4	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Small cuts on top side of the stone

Chipping on B side bed joint

Previous patch corner B side bed joint

Large cracks on base of following crack to mortar joint

Piece is loose

• Stone cleaning recommended: Minor / Moderate to heavy

• Type of repair 5x5 dutchman = 30 in³

• Patching required? Yes / No (if yes, shade the area on the sketch)

• Volume of Patching: 8 [in³]

To be documented on ground after handling and storage

• Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 8-23-22

WDP/GSD Representative:

P Dillon
(Print)

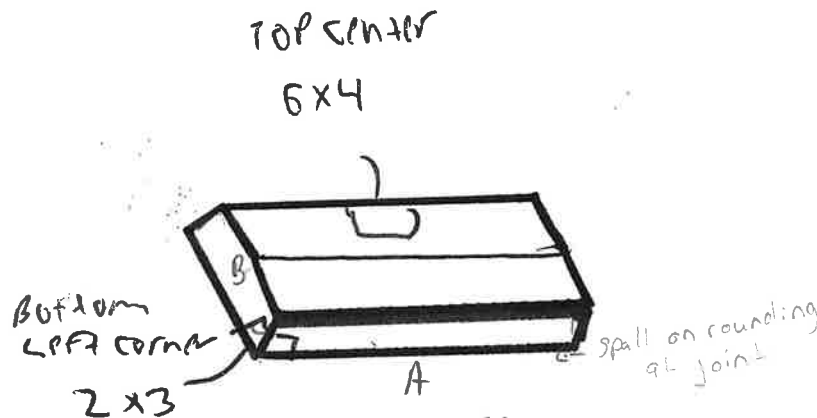
(Signed)

Date: 9/8/22

Stone Survey Sheet

Location Drawing D4.03 Fig 3
Storage Drawing _____

SKETCH



Stone ID No.
87TE

Location	Length (in)	
Overall Dimensions:		
A	16 1/4	
B	17 1/8	
C	14 5/8	
	Left	Right
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Spall on right head joint at rounding

- Stone cleaning recommended: Minor Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching: 30 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-13-22

WDP/GSD Representative:

Chris Lehman
(Print)

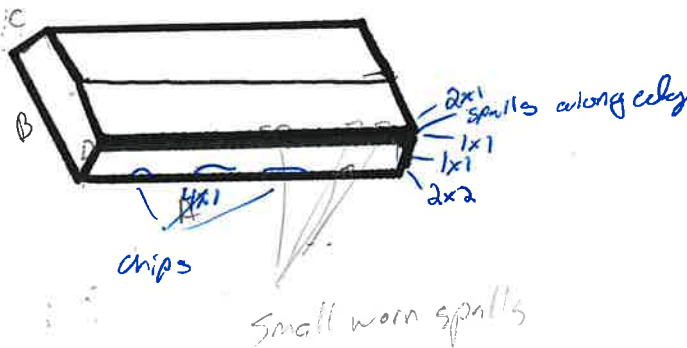
(Signed)

Date: 9/20/22

Stone Survey Sheet

Location Drawing D4.04
Storage Drawing _____

SKETCH



Stone ID No.
87TW

Location	Length (in)	
Overall Dimensions		
A	17	
B	17	
C	14 5/8	
	Left	Right
D	7 3/4	
E		
F		
G		
H		
I		
J		
K		
L		
M		
Mortar Joints		
Side		
Top		
Bottom		

Description and Location of Damage (i.e. Chips, Cracks, Spalls Discoloration):

Several small worn spalls on rising
small worn spall bottom of face

- Stone cleaning recommended: Minor / Moderate to heavy
- Type of repair _____
- Patching required? Yes / No (if yes, shade the area on the sketch)
- Volume of Patching. 12 [in³]
- To be documented on ground after handling and storage
- Stone to be replaced (by Contractor)? Yes / No

Checklist

- ☒ Photographed prior to removal
- ☒ Add building reference points for existing location
- ☐ Existing conditions prevent removal per rigging plan
- ☒ Photographed after removal
- ☒ Documentation of areas to be patched
- ☒ Labeled with Stone ID
- ☒ Labeled stone with location of mortar joint lines above

Contractor Representative:

Scott Johnson
(Print)

(Signed)

Date: 9-8-22

WDP/GSD Representative:

Miller
(Print)

(Signed)

Date: 9-20-22