



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: 12-27-2022

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 GSD2100000024 4	Procurement Folder:	865195
Document Name:	N Portico Stairs-Failing Concrete Slab Assessment & Design	Reason for Modification:	Change Order 2
Document Description:	N Portico Stairs-Failing Concrete Slab Assessment & Design		To increase and extend the contract.
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:	2021-03-29
Free on Board:	FOB Dest, Freight Prepaid	Effective End Date:	2024-05-31

VENDOR				DEPARTMENT CONTACT	
Vendor Customer Code: VS0000000330				Requestor Name: Richard Scot Casdorph	
WDP & ASSOCIATES CONSULTING ENGINEERS INC				Requestor Phone: 304-957-7145	
10621 GATEWAY BLVD #200				Requestor Email: scot.r.casdorph@wv.gov	
MANASSAS		VA	20110-2055		
US					
Vendor Contact Phone: 703-257-9280		Extension:		118	
Discount Details:					
	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

Total Order Amount: \$751,362.00

Purchasing Division's File Copy

ENTERED

PURCHASING DIVISION AUTHORIZATION DATE: <i>Tara H</i> 1/19/2023 ELECTRONIC SIGNATURE ON FILE	ATTORNEY GENERAL APPROVAL AS TO FORM DATE: <i>John D. Green</i> ELECTRONIC SIGNATURE ON FILE	ENCUMBRANCE CERTIFICATION DATE: <i>1/24/2023</i> ELECTRONIC SIGNATURE ON FILE
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1/24/2023

Extended Description:

Change Order

Change Order No.2 is issued to increase and extend the original contract (762 days), per the attached documentation, according to all terms, conditions, prices, and specifications contained in the original contract including all authorized change orders.

Effective date of increase: December 27, 2022

Effective date of extension: June 30, 2023 to May 31, 2024

Original Contract Price: \$ 49,340.00  
Change Order #1 Increase: \$465,940.00  
Change Order # 2 Increase Requested: \$236,082.00  
New Contract Price: \$751,362.00

No other changes.

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
1	81101505	0.00000		0.000000	49340.00
Service From	Service To	Manufacturer		Model No	
2021-03-29	2024-03-31				

Commodity Line Description: N Portico Stairs-Failing Concrete Slab Assessment & Design

Extended Description:

Phase I: Investigation & Reporting

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
2	81101505	0.00000		0.000000	465940.00
Service From	Service To	Manufacturer		Model No	
2021-05-29	2024-03-31				

Commodity Line Description: Change Order 1: Additional Services

Extended Description:

Additional Services, per attached Change Order 1

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
3	81101505	0.00000		0.000000	236082.00
Service From	Service To	Manufacturer		Model No	
2022-12-27	2024-03-31				

Commodity Line Description: Change Order 2: Additional Services

Extended Description:

Additional Services, per attached Change Order 1



STATE OF WEST VIRGINIA  
**DEPARTMENT OF ADMINISTRATION**  
GENERAL SERVICES DIVISION  
State Capitol  
Charleston, West Virginia 25305

Mark D. Scott  
Cabinet Secretary

William D. Barry  
Director

**MEMORANDUM**

O.K.  
WJ  
01/19/23

**To:** Melissa Pettrey, Senior Buyer, WV Purchasing Division  
**From:** James Jones, Procurement Administrator, General Services Division *James R Jones*  
**Date:** December 27, 2022  
**Ref:** Change Order # 2 - CPO GSD2100000024 - North Portico Stairs Project

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Melissa:

Please accept this memorandum as explanation and justification for our request for Change Order # 2 to our contract with WDP & Associates (the "Engineer") for the investigation and design services for the North Portico Stairs Project. Per the documentation attached here and to the header of the wvOASIS procurement document, we are requesting an extension of three hundred and thirty-five (335) calendar days and an increase of \$236,082.00 to cover Additional Services for continuing design of the repairs due to additional issues discovered during continued investigative measures undertaken during the Phase 1 construction which allowed for additional investigation of the extent of the causes of the concrete failure that occurred on March 26, 2021.

Included in these Additional Services are:

1. Design Phase Services:
  - 1.1. Repairs to the interior finishes, mechanical, electrical, and lighting to the "House Journal Room" area located under the North Stairs.
  - 1.2. Temporary weather protection measures within the interior spaces beneath the North Stairs.
  - 1.3. Repairs to damage of the cheek stone walls and portico columns uncovered during Phase 1.
  - 1.4. Replacement of granite wall panels that had separated from backing.
  - 1.5. Replacement of concrete stair stringers, and repairs to concrete beams, as a result of uncovered deterioration.
  - 1.6. Contractor support, to assist WDP in performing exploratory openings in the concrete slab to examine structural steel members.



STATE OF WEST VIRGINIA  
**DEPARTMENT OF ADMINISTRATION**  
GENERAL SERVICES DIVISION  
State Capitol  
Charleston, West Virginia 25305

Mark D. Scott  
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Director

1.7. Material testing of the concrete to determine the best process for making on-going repairs.

2. Construction Administration services:

2.1. WDP to provide an additional 8 months of construction administration during Phase 2 of the project.

Original Contract Award Amount= \$ 49,340.00  
Change Order #1 Increase= \$465,940.00  
Change Order #2 Increase Request= \$236,082.00

New Contract Amount: \$751,362.00

Please make this increase effective December 27, 2022, and make the extension effective June 30, 2023 to March, 31, 2024.

Please feel free to contact me with any questions, or if you need any additional information and/or documentation to complete the processing of this change order.

Thank you for your timely consideration of this request.

October 13, 2022



State of West Virginia  
General Services Division  
112 California Avenue  
Charleston, WV 25305

Attention:    Aaron Armstrong  
                    Project Manager

Reference:    West Virginia State Capitol: North Stair Repair  
                    Additional Design and Construction Phase Services  
                    WDP Project No. 21060

Charlottesville, VA

Manassas, VA

Blacksburg, VA

Myrtle Beach, SC

New York, NY

Dear Mr. Armstrong:

WDP & Associates Consulting Engineers, Inc., ("WDP") is pleased to submit this professional services agreement (the "Agreement") to the General Services Division (the "Client") for the Additional work (the "Work") described in detail in the Scope of Services section of this Agreement. The Scope of Services generally includes development of two full sets of Construction Documents and providing Construction Administration Services for the repairs at the north monumental stair of Building 1 and additional investigation into the existing conditions at the stair once the selected architectural and structural components have been demolished.

### **SCOPE OF SERVICES**

This Proposal for Professional Services is limited exclusively to the Work as described in this Scope of Services section, and anything not expressly described shall be considered expressly excluded from the Work. WDP proposes to perform the Work which is described as follows.

#### **Task 1. Phase-2 Additional Design Phase Services**

The GSD has requested the addition of the new items to the Scope of Work for the phase-2 project that were not included in our original design services in Change Order #1. WDP will provide Additional Design Phase Services for the following additional scope items to be incorporated into the phase-2 construction documents:

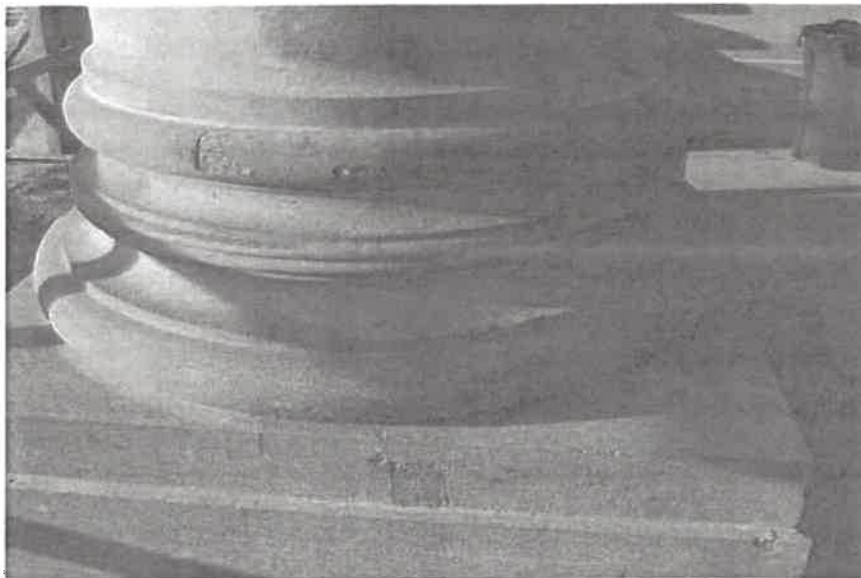
- New interior finishes, mechanical, electrical, and lighting will be installed within the occupied spaces beneath the North Stair.
- Temporary weather protection measures will be installed within the interior spaces beneath the North Stair in lieu of providing a temporary enclosure structure over the North Stair.
- Damage was observed at many of the cheek wall stones and portico column bases that were not indicated to be removed during the phase-1 project

West Virginia State Capitol North Stair Repair  
Additional Design and Construction Phase Services  
WDP Project No. 21060  
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(Photograph 1). Additional stone repairs will be performed at the remaining cheek wall stones and portico column bases to prevent further deterioration and damage to these elements.

- Some of the granite wall panels at the bases of the pillars adjacent to the side stairs have separated from their backing (Photograph 2). Additional granite wall panels at the portico also appear to have separated from the backing. These wall panels will be cataloged, removed, and reinstalled with new anchors.
- After removing the stair treads at the two side stairs, it was observed that the concrete stringers supporting the treads were severely deteriorated (Photograph 3). The existing concrete stringers will be removed and replaced.
- Some limited concrete deterioration and reinforcement corrosion were observed at the reinforced concrete beams beneath the platform (Photograph 4). Discrete concrete repairs will be performed at the concrete beams to address the deficiencies.



**Photograph 1. Example of damage and deteriorated patches at a portico column**



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**Photograph 2. Example of separated granite panel at side pillar**



**Photograph 3. Example of deteriorated concrete stringers beneath side stair**



**Photograph 4. Example of concrete and reinforcement deterioration and concrete beam beneath platform**

During the phase-1 construction project, the GSD decided to remove selective demolition of the concrete stair slab from the phase-1 project scope of work and to move it into the phase-2 project to facilitate earlier completion of the phase-1 project. WDP will provide Additional Design Phases Services to reincorporate and integrate this demolition scope into the phase-2 design package.

In conjunction with these Additional Design Phase Services, WDP will perform additional field investigation to observe and document dimensions, quantities, and conditions for the additional scope items at the interior spaces, pillars, cheek wall panels, and portico columns.

#### Contractor Support

WDP will engage a Contractor to perform exploratory openings at the existing concrete stair slab at discrete locations to permit WDP to evaluate the conditions of the existing structural steel members. Exploratory openings were not included the original scope of work for the project because the existing concrete slab was intended to be removed during the phase-1 construction project, permitting observation of all the structural steel members. Since concrete demolition was removed from the phase-1 construction project scope, discrete openings will be required to observe the condition of the existing structural steel members in order to develop the repair scope for the structural steel members.



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For purposes of this proposal, WDP has included an Allowance for the Contractor support. The Contractor Allowance is not a lump sum fee or a guaranteed maximum fee. WDP will invoice for actual Contractor cost, plus WDP markup, in accordance with § 11.8 of the Contract. Contractor costs in excess of the Contractor Allowance are excluded and will be submitted for compensation as Additional Services in accordance with §11.8 of the Contract. At the conclusion of the phase-2 design phase services, WDP will request a change order to reconcile the contractor expenses with the Allowance.

#### Material Testing

The phase-1 construction documents included sampling of areas to the existing concrete. Testing of the concrete samples was not included in WDP's original proposal for Construction Phase Services. WDP will submit the concrete samples for the following tests:

- Compressive strength (ASTM C39)
- Concrete chloride content (ASTM C1218)

Based on the results for the concrete testing, WDP will develop and submit a memorandum summarizing the test results and WDP's recommendations for repairs to be included in the phase-2 scope of work.

The GSD has requested that the stone testing be performed prior to the construction phase to reduce lead times for the replacement stone pieces. As requested by the GSD, WDP will take samples of the existing limestone and submit the samples for physical and petrographic evaluation to determine the physical and mineralogical properties to be included in the phase-2 bid documents. The stone properties will be used in evaluating and selecting the matching stone to be used in fabricating replacement stones for the phase-2 project. The samples will be taken from damaged original stone pieces that will require replacement during the phase-2 project. It is anticipated that specimens will be obtained and submitted for the following tests:

- Compression testing (ASTM C170)
- Absorption and density testing (ASTM C97)
- Modulus of rupture testing (ASTM C99)
- Flexural strength testing (ASTM C880)
- Abrasion resistance testing (ASTM C1353)
- Petrographic examinations (ASTM C1721)



WDP will engage a contractor to take samples and fabricate the specimens for testing. WDP will incorporate the results of the testing into the phase-2 construction documents.

For purposes of this proposal, WDP has included an Allowance for Testing, including fabrication, shipping, and laboratory services. The Testing Allowance is not a lump sum fee or a guaranteed maximum fee. WDP will invoice for actual Testing costs, plus WDP markup, in accordance with § 11.8 of the Contract. Testing costs in excess of the Contractor Allowance are excluded and will be submitted for compensation as Additional Services in accordance with §11.8 of the Contract. At the conclusion of the phase-2 design phase services, WDP will request a change order to reconcile the testing expenses with the Allowance.

#### Interior Fit-out

Based on correspondence with the GSD, it is our understanding that the new interior finishes in the occupied spaces beneath the North Stair will include finished gypsum board on new metal framing, commercial carpet tile floor, rubber wall base, and painted underside of the concrete slab. No other ceiling systems are anticipated within these spaces.

WDP will engage a professional Engineering firm, licensed in the State of West Virginia, to perform the design phase services for the new Mechanical, Electrical, and Lighting system within the occupied space beneath the North Stair. Based on correspondence with the GSD, it is our understanding that the phase-2 scope at the interior areas will include the following:

- The existing air handler unit will be reused to condition the occupied spaces beneath the North Stair.
- New ductwork will be installed and connected to the existing air handler unit and ductwork for make-up air will be connected to the louver on the west exterior wall.
- The overhead ductwork and conduits will be exposed to view and painted to match the ceiling.
- A new electrical panelboard will be installed on the west wall and connected into the existing feeder conduit coming into the space.
- Electrical outlets will be provided at regular spacings in the perimeter walls of the reading room.
- Electrical junction boxes will be provided at select locations on the ceiling for tie-ins of possible future ceiling power poles, but installation of ceiling power poles and associated cabling is excluded from the project scope.

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Additional Design and Construction Phase Services  
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- New ceiling-suspended lighting will be provided in ante room, reading room, break room, and storage rooms.
- New data conduit drops will be provided from the ceiling down into the walls at regular spacings along the reading room perimeter wall, but it is our understanding that the Capitol IT Department will install the new data equipment, cabling, and jacks.

#### Construction Cost Estimate

As requested by the GSD, WDP will engage a professional cost estimator to prepare an estimate of construction costs for the phase-2 project scope based on the 95% review submission. It is anticipated the construction cost estimate will be submitted approximately two weeks after submission of the 95% construction documents for GSD review.

#### Fire Marshal Review

For purposes of this proposal it is assumed that the GSD will pay the Fire Marshal review directly and WDP will only be responsible for submitting the document to the Fire Marshal for review.

#### **Task 2. Phase-2 Additional Construction Administration Services**

It is anticipated that WDP will need to provide Additional Phase-2 Construction Administration Services beyond the eight-month period originally assumed for the Construction Phase of the Phase-2 project. These services generally include conducting preconstruction meetings and pre-installation conferences, attendance at progress meetings, reviewing submittals and shop drawings, responding to RFIs, performing construction observations, reviewing pay applications and change orders, and performing project closeout responsibilities. Based on the complexity of the project and the nature of the work, it has been our experience that we will need to be more intimately involved in the construction phase than is typically undertaken by the Designer of Record for new construction projects. WDP will be closely involved in the demolition to evaluate unforeseen conditions and provide additional guidance as needed to ensure successful execution of the project.

It is anticipated that WDP will provide Additional Phase-2 Construction Administration Services for an additional four-month period, extending our period of phase-2 construction administration services from eight months to twelve months.

Based on the projected completion date for the phase-1 project and the anticipated timing for design and bidding of the phase-2 project, it is anticipated that phase-2 construction will extend into the latter half of 2023. **WDP requests to extend our Fixed Period Contract 336 calendar days, from June 30, 2023, to May 31, 2024,**

West Virginia State Capitol North Stair Repair  
Additional Design and Construction Phase Services  
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to cover all services through the financial completion of the construction contractor for which these services are being undertaken.

### Task 3. Reimbursable Expense Allowance

Travel expenses during our design, bid, and construction phase services excluded from Change Order #1 dated September 29, 2021. WDP is including an Allowance for travel expenses incurred by WDP in conjunction with performance of our design, bid, and construction phase services. The Allowance is not a lump sum fee or a guaranteed maximum fee. WDP will invoice for Actual Cost of travel expenses in accordance with § 11.8 of the Contract and the West Virginia State Travel Rules. Project-related travel in excess of the Allowance is excluded and will be submitted for compensation as Additional Services in accordance with §11.8 of the Contract. At the conclusion of the need for any further travel, WDP will request a change order to reconcile the actual amount of recorded travel expenses with the Allowance.

### FEES AND PAYMENTS

The following fees are for the performance of the Work as listed in the Scope of Services above. Invoicing will be monthly, based upon percentage of progress completion of each Task. The fees listed in this Fees and Payments section do not cover any Additional Services or any other services which are stated as excluded from the contract or are not specifically described as part of the Work listed in the Scope of Services above. Services will be provided on a lump sum basis except for Allowance items. Allowance items will be invoiced at cost, plus markup where permitted in §11.4 or §11.8 of the Contract.

#### Task 1. Phase-2 Additional Design Phase Services

Principal	24 hrs	@	\$	258.00	/hr	=	\$	6,192.00
Senior Engineer I / Architect I	60 hrs	@	\$	170.00	/hr	=	\$	10,200.00
Staff Engineer II / Architect II	80 hrs	@	\$	130.00	/hr	=	\$	10,400.00
Senior CAD Operator	40 hrs	@	\$	100.00	/hr	=	\$	4,000.00
Project Assistant	8 hrs	@	\$	67.00	/hr	=	\$	536.00
ZMM (Subconsultant)*							\$	32,200.00
RIB USCost (Subconsultant)*						=	\$	16,131.00
Subcontractor Allowance						=	\$	10,982.50
Testing Allowance						=	\$	26,944.50
<b>Lump Sum Subtotal</b>							<b>\$</b>	<b>79,659.00</b>
<b>Allowance Subtotal</b>							<b>\$</b>	<b>37,927.00</b>
<b>Task 1 Subtotal</b>							<b>\$</b>	<b>117,586.00</b>

\* See attached subconsultant proposals. Lump sum fee for subconsultants includes 15% markup per §11.4 of the Contract.

West Virginia State Capitol North Stair Repair  
Additional Design and Construction Phase Services  
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**Task 2. Phase-2 Additional Construction Administration Services**

Principal	32 hrs	@	\$ 258.00 /hr	=	\$ 8,256.00
Senior Engineer I / Architect I	160 hrs	@	\$ 170.00 /hr	=	\$ 27,200.00
Staff Engineer II / Architect II	288 hrs	@	\$ 130.00 /hr	=	\$ 37,440.00
Senior CAD Operator	96 hrs	@	\$ 100.00 /hr	=	\$ 9,600.00
<b>Task 2 Subtotal</b>					<b>\$ 82,496.00</b>

**Task 3. Reimbursable Expense Allowance**

Reimbursable Expense Allowance	=	\$	36,000.00
<b>Task 3 Subtotal</b>		\$	<b>36,000.00</b>

**Lump Sum Total**      \$ 162,155.00

**Allowance Total**      \$ 73,927.00

**Total Fee**      \$ 236,082.00

**ADDITIONAL SERVICES**

Experience indicates that certain additional items of work may be required or necessary which WDP cannot presently determine or estimate. For this reason, the fee for these items is not included in the provisions of "Fees and Payments" for the performance of the Work. Furthermore, the performance of these items is not included in the Work unless the item is expressly described as part of the Work in the preceding Scope of Services section. These additional items of work ("Additional Services") are caused by many factors, usually at the discretion of the Client. They may also be caused by the reviewing agency of Client, variance/deviation from present policies and standards, or reviewing governmental agencies. "Additional Services" may sometimes be referred to as extras, change orders, or add-ons, but for purposes of this Agreement all such descriptions are intended to be encompassed within the term Additional Services.

We thank you for the opportunity to provide our services and look forward to working with you on this project.

Respectfully submitted,

**WDP & Associates Consulting Engineers, Inc.**

Patrick B. Dillon, Ph.D., P.E.  
Senior Engineer

Rex A. Cyphers, P.E.  
Principal





October 29, 2022

WDP Associates  
335 Greenbrier Dr. Suite 205  
Charlottesville VA, 22901

Subject: West Virginia State Capitol North Stair – Phase 2  
1900 Kanawha Blvd E, Charleston, WV 25305  
95% Construction Cost Estimate Submission

Ms. Dillon,

RIB U.S.COST (RIBUSC) is pleased to submit this proposal for cost estimating services. Our team will provide one estimate submission at the 95% Construction Documents phase for this project.

The estimate will be executed using the SUCCESS Cost Estimate Cost Management Software. Any client requested special cost breakouts must be identified prior to the start of the estimating effort. All construction phasing and Division 1 work items that have a cost impact on this project must be clearly identified by the A/E prior to starting work so that their cost can be captured in the estimate. If Hazmat cost is to be added to the estimate, quantities and disposal methodology is to be provided by others

The estimating team will need a minimum of two (2) weeks to produce each submission and one (1) week advance notice of any upcoming estimating task.

**Exclusions:**

- Any Estimate Submission not listed Above
- Working from In-Progress Documents
- Estimate Report Reproduction
- Attendance at Charrette, Design Meetings, Review Conferences or Presentations
- Multiple Estimates to get Project within Budget
- Estimate Format Changes or Conversions into Excel or Other Estimating Systems
- Developing Costs for Moving Equipment/ Furnishings, Storage or Swing Space
- Cost for, Data/ IT or AV
- Developing Owners Soft Costs
- Furnish and/or Install Proprietary Equipment or Furnishings
- Hazmat Quantities and Disposal Method
- Estimates for Interior Fit-out, or Leasing Costs
- Submission of Quantity Take Off / Calculation
- Core and Shell, Tenant Fit Out Cost Breakouts
- Cost for A/E Design Fees
- Design to Cost Requirements Report
- Formal Market Study, Risk Analysis & Sensitivity Analysis
- Scheduling, Constructability and Phasing Analysis



- Estimate Reconciliations, Value engineering, Life Cycle Cost Analysis, Bid Support Services, Negotiations with Bidders
- Post Award Services, RFI, Change Orders

RIBUSC is requesting lump sums fee to perform the services describe above in the amount of **\$14,027**. Please refer to the attached matrix for a breakdown of our fee. This fee is based on one submission, should a submission be added this fee becomes void and must be repriced.

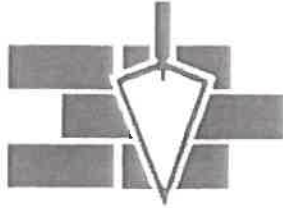
We appreciate being considered for this assignment and look forward to working with your design team on this project. If additional information is needed, or if there are any questions, please feel free to contact me at (703) 415-0835 ext. 7106, [steve.curran@rib-uscost.com](mailto:steve.curran@rib-uscost.com) or Russell McElreath (770) 481-1653, [russell.mcelreath@rib-uscost.com](mailto:russell.mcelreath@rib-uscost.com).

Sincerely,

**RIB U.S.COST**

A handwritten signature in black ink, appearing to read 'Steve Curran', followed by a long horizontal line extending to the right.

Steve Curran  
Vice President



## **WILSON RESTORATION, INC.**

P.O. Box 14250

Pittsburgh, PA 15239

Phone: (412) 793-4400 Fax: (412) 793-1301

September 14, 2022

Patrick B. Dillon, PhD  
Senior Engineer  
WDP Consulting Engineers  
33 Summers Hospital Road  
Hinton, WV 25951

RE: WV State Capitol – North Stair Repair  
Extra Work

Dear Sir:

Wilson Restoration proposes the following additional work for the above referenced location:

**EXTENT OF WORK:**

1. Provide 69 pieces of various sized stone for testing to be performed prior to Phase Two. Pieces will be cut from existing limestone that would be otherwise not used or used for dutchman repairs. Engineers to determine which stones will be used. Samples will be ground smooth to sizes specified.

**COST OF WORK:        \$ 6,900.00**

NOTE: Support needed from GC/Owner, if necessary: electrical power source, water, permits, protection of our workers from power lines, dumpsters, and equipment staging area. Payment terms are 15 days from invoice date. Past due invoices will be charged at 1.5% monthly interest rate.

Proposed by: Michael J. Lowe, Vice President

BJB:mrp



September 12, 2022

Patrick Dillon, Ph.D, P.E.,  
Senior Engineer  
WDP & Associates 335 Greenbrier Drive, Suite 205  
Charlottesville, VA 22901  
[pdillon@wdpa.com](mailto:pdillon@wdpa.com)

RE: North Capitol Steps Project, Mechanical/Electrical Design Services

Mr. Dillon:

ZMM Inc. proposes to provide Mechanical and Electrical design services for the interior renovation of the area under the North Capitol steps.

The services will include site investigation, construction documents (demolition drawings, extension and control of existing chilled water air handling unit with electric reheat, new electrical panel with distributed electrical outlets, empty conduit system for data and communication and specifications), answering questions during bidding and construction administration services (shop drawing review and periodic site visits).

We anticipate WDP will furnish digital architectural base plans.

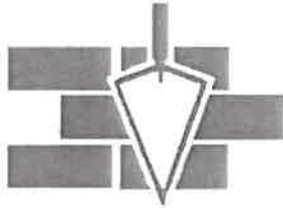
ZMM Inc.'s fee for engineering design services is \$28,000.00. We anticipate no reimbursable expenses.

If acceptable, ZMM will execute a mutually agreeable contract.

Sincerely,  
ZMM Architects and Engineers



Robert Doeffinger, PE  
Engineering Principal



## **WILSON RESTORATION, INC.**

P.O. Box 14250

Pittsburgh, PA 15239

Phone: (412) 793-4400 Fax: (412) 793-1301

September 9, 2022

Patrick B. Dillon, PhD  
Senior Engineer  
WDP Consulting Engineers  
33 Summers Hospital Road  
Hinton, WV 25951

RE: North Stair Exploratory Concrete Demo

Dear Sir:

Wilson Restoration proposes the following extent of work for the above referenced location:

**EXTENT OF WORK:**

1. Provide scaffolding access to remove sections of concrete at engineer's directive. Quote includes a minimum of four (4) areas but can be increased if our timeframe is not extended.
2. Provide shoring posts and cribbing at beams where concrete is being removed.
3. Cut out concrete where directed without damaging or removing any of the steel or potential section loss.

NOTE: Pricing includes four-10 hour days for two (2) men. We believe work can be completed in two-10 hour days but will include four for the NTE number. Final billing to be reflective of time actually spent on project.

**COST OF WORK: \$ 9,550.00**

**\*Credit of \$ 4,375.00 if only two-10 hour days.**

NOTE: Support needed from GC/Owner, if necessary: electrical power source, water, permits, protection of our workers from power lines, dumpsters, and equipment staging area. Payment terms are 15 days from invoice date. Past due invoices will be charged at 1.5% monthly interest rate.

  
Proposed by: Michael J. Lowe, Vice President

BJB:mrp

**Testing allowance**

Concrete cylinder	\$ 150.00	9 =	\$ 1,350.00
Chloride	\$ 250.00	9 =	\$ 2,250.00
Petrographic examination	\$ 1,500.00	6 =	\$ 9,000.00
NSI Testing Bundle #2	\$ 2,880.00	1 =	\$ 2,880.00
Fabrication			\$ 6,900.00
Shipping			\$ 1,050.00
			<hr/>
	<b><i>Testing Allowance Subtotal</i></b>		<b>\$ 23,430.00</b>
	<b><i>WDP Markup (15%)</i></b>		<b>\$ 3,570.00</b>
	<b>Total Estimated Testing Allowance</b>		<b>\$ 27,000.00</b>



# Construction Materials Consultants, Inc.

**222 Harvey Avenue**  
**Greensburg, PA 15601 USA**  
**Phone: 724-834-3551**  
**Fax: 724-834-3556**

## Laboratory Testing, Investigation, and Other Services of CMC: Fee Schedule

Tests	ASTM	Standard Unit Price	Rush Unit Price
<b>Hardened Concrete</b>			
Concrete - Air-void Analyses	C 457	\$500.00	\$1,000.00
Concrete - Alkali-Carbonate Reactivity - Petrography, Chemical, & XRD	C 856	\$1,500.00	\$3,000.00
Concrete - Alkali-Silica Reactivity - Detailed Petrography	C 856	\$1,250.00	\$2,500.00
Concrete - Alkali-Silica Reactivity - Mortar-Bar Method (Without Pozzolan)	C 1260	\$1,000.00	NA
Concrete - Alkali-Silica Reactivity - Mortar-Bar Method (with Pozzolan)	C 1567	\$1,000.00	NA
Concrete - Cement Content	C 1084	\$1,000.00	\$2,000.00
Concrete - Chloride Analyses - Acid-Soluble - Powder Sample	C 1152	\$150.00	\$300.00
Concrete - Chloride Analyses - Acid-Soluble - Per Section from a Core	C 1152	\$200.00	\$400.00
Concrete - Chloride Analyses - Water-Soluble - Powder Sample	C 1218	\$175.00	\$350.00
Concrete - Chloride Analyses - Water-Soluble - Per Section from a Hardened Sample	C 1218	\$250.00	\$500.00
Concrete - Density, Absorption, Voids	C 642	\$250.00	\$500.00
Concrete - Length Change	C 157	\$1,000.00	\$2,000.00
Concrete - Petrographic Examinations	C 856	\$1,250.00	\$2,500.00
Concrete - Petrographic Examinations - Composite Sample	C 856	\$1,750.00	\$3,500.00
Concrete - Petrographic Examinations + SEM	C 856 + C 1723	\$1,750.00	\$3,500.00
Concrete - Petrographic Examinations + SEM + XRD + XRF	C 856 + C 1723	\$2,000.00	\$4,000.00
Concrete - Chloride Permeability	C 1202	\$450.00	\$900.00
Concrete - Sulfate Analyses (XRF)	C 114	\$200.00	\$400.00
Concrete - Compressive Strength	C 39/42	\$150.00	\$300.00
Comprehensive Pyrrhotite Studies: Petrographic Examinations, Chemical Analyses, etc.	C 856	\$2,500.00	\$5,000.00
Ion Chromatography ASTM D 4327	D 4327	\$250.00	\$500.00
<b>Masonry Units &amp; Masonry Mortars</b>			
Masonry - Mortar Analyses	C 1324	\$2,000.00	\$4,000.00
Masonry - Brick, Stone, CMU Petrographic Examinations + XRD	C 856	\$1,000.00	\$3,000.00
Masonry - Brick Masonry Units - Absorption & Saturation Coefficient (Set of 5 Half Bricks)	C 67	\$750.00	\$1,500.00
Masonry - Brick Masonry Units - Compressive Strength (Set of 5 dry Half Bricks)	C 67	\$750.00	\$1,500.00



Tests	ASTM	Standard Unit Price	Rush Unit Price
Masonry - Brick Masonry Units - Efflorescence Test (set of 10 Full Bricks)	C 67	\$500.00	\$1,000.00
Masonry - Brick Masonry Units - Initial Rate of Absorption (set of 5 Whole bricks)	C 67	\$500.00	\$1,000.00
Masonry - Efflorescence - XRD	C 856	\$300.00	\$600.00
<b>Aggregates for Concrete</b>			
Stone & Gravel - Alkali-Carbonate Reactivity - Rock Cylinder Method	C 586	\$750.00	\$1,500.00
Stone & Gravel - Alkali-Carbonate Reactivity - Petrography	C 295	\$1,500.00	\$3,000.00
Stone & Gravel - Petrographic Examinations - Crushed Stone	C 295	\$1,500.00	\$3,000.00
Stone & Gravel - Petrographic Examinations - Gravel	C 295	\$2,000.00	\$4,000.00
Stone & Gravel - Petrographic Examinations - Slag	C 295	\$2,500.00	\$5,000.00
Stone & Gravel - Petrographic Examinations - Sand	C 295	\$1,500.00	\$3,000.00
<b>Prestressed Concrete Cylinder Pipes (PCCP), Sewer Pipe, Clay Pipe</b>			
PCCP - Absorption, Specific Gravity, Volume of Permeable Voids	C 642	\$250.00	\$500.00
PCCP - Chloride Analysis - Acid-Soluble - Per Section/Depth	C 1152	\$200.00	\$400.00
PCCP - Petrographic Examinations	C 856	\$1,250.00	\$2,500.00
<b>Portland Cement Plaster</b>			
Stucco - Petrographic Examinations 2-coat system	C 856	\$1,250.00	\$2,500.00
Stucco - Petrographic Examinations 3-coat system	C 856	\$1,500.00	\$3,000.00
<b>Dimension Stones</b>			
Dimension Stone - Absorption (set of 3 stones)	C 97	\$330.00	\$660.00
Dimension Stone - Petrographic Examinations - Optical + XRD	C 1721	\$1,000.00	\$2,000.00
Dimension Stone - Petrographic Examinations - Optical + XRD + SEM	C 1721	\$1,500.00	\$3,000.00
Dimension Stone - Strength, Flexural (set of 20 sampels, pre-cut to ASTM C 880 spec)	C 880	\$3,000.00	\$6,000.00
<b>Terra Cotta &amp; Architectural Cast Stones</b>			
Terra Cotta & Architectural Cast Stones - Petrographic Examinations	C 856	\$1,000.00	\$2,000.00
Terra Cotta & Architectural Cast Stones - Petrographic Examinations + XRD	C 856	\$1,250.00	\$2,500.00
Terra Cotta & Architectural Cast Stones - Petrographic Examinations + XRD + SEM-EDS	C 856	\$1,500.00	\$3,000.00
<b>Ceramic Tile &amp; Other Floor Covering Failures</b>			
Ceramic Tile & Floor Covering Failures - Investigation of De-bonding, Blistering, Discoloration, Cracking, etc. of Floor Covering - Petrography	C 856	\$1,250.00	\$2,500.00
Ceramic Tile & Floor Covering Failures - Investigation of De-bonding, Blistering, Discoloration, Cracking, etc. of Floor Covering - Petrography + SEM-EDS	C 856	\$1,500.00	\$3,000.00
<b>Pozzolanic and Cementitious Materials</b>			
Pozzolanic and Cementitious Materials - Chemical Analyses of Hydraulic Cement - Oxides of Si, Al, Ca, Mg, Na, K, Fe, Ti, P, and S by ED-XRF	C 114	\$500.00	\$1,000.00
Pozzolanic and Cementitious Materials - X-ray Diffraction (Qualitative)	C 1365	\$500.00	\$1,000.00
Pozzolanic and Cementitious Materials - X-ray Diffraction (Quantitative)	C 1365	\$750.00	\$1,500.00

Tests	ASTM	Standard Unit Price	Rush Unit Price
<b>Gypsum &amp; Lime Products</b>			
Gypsum & Lime Products - Chemical Analyses - Oxides of Si, Al, Ca, Mg, Na, K, Fe, Ti, P, and S by ED=XRF	C 114	\$500.00	\$1,000.00
Gypsum & Lime Products - Petrographic Examinations + XRD	C 856	\$1,250.00	\$2,500.00
Gypsum & Lime Products - Petrographic Examinations + XRD + SEM-EDS	C 856	\$1,500.00	\$3,000.00
<b>Fill Materials</b>			
Fill Materials - Petrographic Examinations + XRD + XRF	-	\$1,500.00	\$3,000.00
<b>Rocks, Sediments, Soils, Meteorites, etc.</b>			
Rocks, Sediments, Soils, Meteorites, etc. - Chemical Analyses - Oxides of Si, Al, Ca, Mg, Na, K, Fe, Ti, P, and S by ED-XRF	-	\$500.00	\$1,000.00
Rocks, Sediments, Soils, Meteorites, etc. - Petrographic Examinations (Optical Microscopy) - Rocks, Sediments	-	\$750.00	\$1,500.00
Rocks, Sediments, Soils, Meteorites, etc. - Petrographic Examinations (Optical Microscopy) - Soils	-	\$1,250.00	\$1,500.00
Rocks, Sediments, Soils, Meteorites, etc. - XRD (Semi-Quantitative)	-	\$400.00	\$800.00
Rocks, Sediments, Soils, Meteorites, etc. - SEM-EDS	-	\$500.00	\$1,000.00
<b>Report of Laboratory Examination &amp; Report Consultation</b>			
Report of Laboratory Examinatons by Electronic Mail as an Adobe PDF file	-	\$0.00	\$0.00
Report of Laboratory Examinations by Electronic Mail in PDF + one (1) Hard Copy with Color Photographs and Micrographs	-	\$250.00	\$250.00
Report of Laboratory Examinations - Modifications	-	\$250.00	\$250.00
Consultation After Report Submission (per hour)	-	\$200.00	\$200.00
Supplemental Report	-	\$500.00	\$1,000.00
<b>Litigation</b>			
Litigation - Principal - Deposition & Trial (per hour)	-	\$500.00	\$500.00
Litigation - Principal - Out-of-Office Travel Time for In-PA Litigation (per hour)	-	\$250.00	\$250.00
Litigation - Principal - Air Travel for Out-of-State Litigation (minium, per day)	-	\$750.00	\$750.00
Litigation - Document Review for Expert Testimony (per hour)	-	\$200.00	\$200.00
Litigation - Document Review and Responses for a Project other than a Laboratory Report (per hour)	-	\$250.00	\$250.00
Litigation - Secretarial (per hour)	-	\$150.00	\$150.00
Litigation - Auto Mileage (per mile)	-	\$1.00	\$1.00
<b>Postage</b>			
Postage - Sample Return	-	\$40.00	\$40.00

Prices subject to change without notice. Standard turnaround for most tests is 3 to 4 weeks, Rush turnaround is 5-days. Standard Turnaround for ASTM C 295 is 4 to 6 weeks.

### Information Needed to Initiate a CMC Project

1. Contact person(s) knowledgeable on the project - Name, Phone, Fax, Email address, Mailing address, and, Company information for direct and other clients.
2. Bill-to information for invoice and payment.
3. Ship-to information for sending the Final Report (if hard copy is requested) samples after testing.
4. Full Name and Address of the Project (e.g., Street, City, State).
5. Your Project Number (if available).
6. Testing Requested (e.g., Petrography, Air Content, Chloride Content/Permeability, etc.).
7. Reason(s) for the Requested Testing (e.g., If there is a problem; Nature and extent of the problem, etc.).
8. Detailed background information, e.g., (i) Nature of the Problem, if any, (ii) When the problem was first noticed, etc., (iii) Time of installation (e.g., month, year, season, age), (iv) Location/environment (e.g. indoor vs. outdoor, wall vs. floor, if it is exposed to a freezing and thawing environment or a chemically aggressive environment), (v) Mix design, MSDS data sheets, Specification, etc., (vi) Previous testing results, if any (e.g., strength results, air, slump, temperature, weather condition during placement, etc.), (vi) Any other relevant information not mentioned here.
9. Field photographs showing - (i) condition of the structure in question, the nature of the problem, if any, and, (ii) sample locations with the extracted samples (either on a CD, or a flash drive, or by email).
10. What would you like to do with the samples(s) after testing is completed (i.e. Toss or Return).
11. Label your sample(s) properly (e.g., Sample ID, which side is top/exposed, good vs. bad samples, etc.).
12. Turn around (3 to 4 weeks Standard, or, 5-day Expedite Report).
13. All New Clients are Requested to Pay in Full Prior to the Release of the Report. All Existing Clients have a 30-day Pay Period.
14. Testing will not begin until receipt of the signed and approved Cost Proposal (which will be provided via email when our Lab receives the sample(s)).



Date: September 15, 2022  
Quotation # 22-0077  
Customer ID: TBD  
Quotation valid until: December 14, 2022  
Prepared by: S. Scallorn

Quote Prepared For	Patrick Dillon	Project	TBD
Company	WDP & Associates	Product Designation	One Limestone Product
St. Address	335 Grennbrier Drive, Suite 205	Evaluation Scope	PACKAGE #2 - ASTM C568 (ASTM: C97, C170, C99, C880, C1353)
City, State, Zip	Charlottesville, VA 22901		

TEST DETAILS	SPECIMEN DIMENSIONS	SETUP CHARGE	COST PER SPECIMEN	MINIMUM SPECIMEN QUANTITY <sup>1,2</sup>	EXTENDED COST
ASTM C97 - Absorption & Density	2.25" Cubes (57mm)	\$150.00	\$50.00	5	\$400.00
ASTM C99 - Modulus of Rupture	To be tested both parallel and perpendicular to rift and in both wet and dry conditions	\$100.00	\$35.00	20 (*10 specimens per rift orientation - Parallel and Perpendicular)	\$800.00
ASTM C170 - Compressive Strength	To be tested both parallel and perpendicular to rift and in both wet and dry conditions	\$100.00	\$30.00	20 (*Specimens shall have parallel facings without rough edges)	\$700.00
ASTM C880 - Flexural Strength	To be tested both parallel and perpendicular to rift and in both wet and dry conditions	\$100.00	\$35.00	20 (*10 specimens per rift orientation - Parallel and Perpendicular)	\$800.00
ASTM C1353 - Abrasion Resistance	To be prepared with rift relative to test facing as appropriate for intended use	\$200.00	\$100.00	4 (*3 test, 1 spare)	\$500.00
ASTM C568 - Limestone Properties Evaluation	Included in test fees for all above properties				N/C
Test Report	Comprehensive eReport included in test fees				N/C

<sup>1</sup> Specimen quantities reflect the minimum required for testing. Submittal of additional specimens (up to 20% per test component) is recommended against the possibility of damage during shipment

<sup>2</sup> Stone rift orientation is to be clearly marked on all test specimens

Subtotal <sup>3</sup>	\$3,200.00
Bundle Discount (10%)	\$320.00
Total:	\$2,880.00

Thank you for your business!

PLEASE NOTE:

- 1) All prices are in U.S. Dollars
- 2) Payment Terms: Net 30
- 3) Prices include disposal of spent test specimens

Sincerely,

Scott D. Scallorn