



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

# Request for Quotation

RFQ NUMBER  
 GSD096430

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 KRISTA FERRELL  
 304-558-2596

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 JOBSITE  
 SEE SPECIFICATIONS

304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/21/2009				

BID OPENING DATE: 05/07/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 2		
				THIS ADDENDUM IS ISSUED TO:		
				1.) ADD THE FOLLOWING DOCUMENTS		
				GSD096430 ADDITIONS/CHANGES TO SPECIFICATIONS		
				GSD096430 SECTION 00300 BID FORM (REVISED)		
				GSD096430 SECTION 01100 SUMMARY OF WORK (REVISED)		
				GSD096430 SECTION 05500 METAL FABRICATION		
				GSD096430 SECTION 08110 STEEL DOORS		
				GSD096430 SUPPLEMENTAL DRAWING AD-X1		
				GSD096430 SUPPLEMENTAL DRAWING AD-X2		
				GSD096430 SUPPLEMENTAL DRAWING AD-X3		
				GSD096430 STAGING LOCATION DRAWING		
				2.) EXTEND THE BID OPENING DATE:		
				BID OPENING DATE IS EXTENDED TO: 05/07/2009		
				BID OPENING TIME REMAINS: 1:30 PM		
				***** END ADDENDUM NO. 2 *****		
0001		JB		910-66		
	1			REROOFING OF BLDGS #5, 6 & 7, STATE CAPITOL COMPLEX		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



ARCHITECTS & ENGINEERS

April 16, 2009

## ADDENDUM NO. 2

RE: Roof Replacement  
 State Office Building Nos. 5,6, &7  
 West Virginia Capitol Complex  
 Charleston, West Virginia  
 Architect's Project No. 0812

TO: Prospective Bidders

FROM: ZMM, Inc. Architects And Engineers

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

**ATTACH THIS ADDENDUM TO THE FRONT COVER OF THE PROJECT MANUAL AND  
 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM.**

See Addendum No. 1 for the captioned project with State RFQ No. GSD096430 as issued by the State Of West Virginia Department Of Administration Purchasing Division as attached.

### CHANGES TO SPECIFICATIONS:

1. REPLACE Bid Form dated 08/25/08 with Bid Form dated 04/16/09 as attached to this Addendum.
2. REPLACE Section 01100 – Summary Of Work dated 08/19/08 with Section 01100 dated 03/25/09 as attached to this Addendum.
3. Section 01500 – Temporary Facilities And Controls: REVISE Paragraph 3.3.B to read: "Roof Hazards: Erect temporary guard 42 inches high, complying with O.S.H.A., along all roof edges not having permanent guard or parapet wall, and along any other elevated walking surfaces having an adjacent drop in elevation of more than 18 inches." Retain subparagraphs 3.3.B.1 and 3.3.B.2.
4. ADD Section 05500 – Metal Fabricatons as attached to this Addendum.
5. ADD section 08110 – Steel Doors as attached to this Addendum.
6. Section 07552 – Make the following revisions:
  - A. REPLACE Paragraph 2.6.A.1 with the following:
    1. 'DensDeck Prime' Fiberglass-Mat Faced Gypsum Board as manufactured by Georgia Pacific.

ADDENDUM No. 2

Page 1 of 2

ZMM, Inc.  
 222 Lee Street West • Charleston, West Virginia 25302  
 304.342.0159 voice • 304.345.8144 fax  
 zmm.com



- a. Thickness: 5/8 inch
- b. Weight: 2.55 psf
- c. Surfacing: Fiberglass Mat with non-asphaltic coating
- d. Flexural Strength: 100 lbf (ASTM C4730 Parallel)
- e. Flute Span: 8 inches
- f. Permeance: Max 32 Perms (ASTM E96)
- g. R-Value: 0.67 Minimum.
- h. Water Absorption: <10% of weight (ASTM C1177)
- i. Compressive Strength: 500-900 psi (ASTM C473)
- j. Surface Water Absorption: Max 2 grams (ASTM C473)

#### CHANGES TO DRAWINGS:

1. See revised drawing nos. AD-X1, AD-X2, and AD-X3 as attached to this Addendum.
2. Drawing AD-1 – Make the following revisions:
  - A. ADD note to two items tagged Keyed Note 12 at western edge of stairwell to read: "Communication equipment to remain active during construction. Contractor to protect equipment and communications cables during demolition and construction."
  - B. Add note to the six interior concrete columns tagged Keyed Note 5 (located between the stairwell and the elevator penthouse) to read: "These columns and concrete framework are to remain."
3. Drawing AD-2 – ADD note to each of the existing dish antennae at eastern end of the upper roof to read: "Contractor to remove and dispose of the dish antenna, its support frame, and masonry weights."
4. Drawing A1-1 - ADD to keyed note no. 21 as follows: "Contractor to provide support system for existing communication cable located on roof."
5. Drawing A1-4 – Elevation E - ADD note at elevator and stairway door to read: "Contractor to replace existing doors with new galvanized steel doors mounted in existing steel frame. Re-use existing door hardware. Existing steel door frame to be cleaned and rusted areas are to be repaired. Prime and paint all exposed metal on doors and frames. Scrape and paint existing steel lintels. This applies to Building Nos. 5 and 6.
6. Drawing A1-5 – ADD note at all door and louver openings to read: "Clean, rake, and repoint masonry above steel lintels. Scrape, clean, and repaint all exposed steel."

#### End Of Addendum

<i>Attachments:</i>	<i>Bid Form dated 04/16/09</i>	<i>3 pages</i>
	<i>Section 01100 dated 03/25/09</i>	<i>2 pages</i>
	<i>Section 05500</i>	<i>5 pages</i>
	<i>Section 08110</i>	<i>3 pages</i>
	<i>Drawing Nos. AD-X1, AD-X2, AD-X3</i>	

#### ADDENDUM No. 2

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ZMM, Inc.  
 222 Lee Street West • Charleston, West Virginia 25302  
 304.342.0159 voice • 304.345.8144 fax  
 zmm.com

# BID FORM

DATED: \_\_\_\_\_  
(Bidder to insert date bid submitted)

SUBMITTED BY: (Name and Address)

WEST VIRGINIA CONTRACTOR LICENSE NUMBER: WV \_\_\_\_\_

SUBMITTED TO: State of West Virginia  
Department Of Administration  
Purchasing Division

The undersigned, being familiar with local conditions affecting the cost of the work and the contract documents, including Instructions to Bidders, Bid Form, General Conditions, Drawings, and Specifications and any Addenda issued, hereby propose to perform everything required to be performed and to provide and furnish all the labor, materials, tools, expendable equipment and all services necessary to complete in a workmanlike manner all the work required for the:

**ROOF REPLACEMENT  
STATE OFFICE BUILDING NOS. 5, 6, AND 7  
WEST VIRGINIA STATE CAPITAL COMPLEX  
CHARLESTON, WEST VIRGINIA**

all in accordance with the drawings and specifications as prepared by ZMM, Inc., 222 Lee Street West, Charleston, West Virginia 25302, as follows:

**BASE BID – BUILDING FIVE:**

For the sum of: \_\_\_\_\_  
\_\_\_\_\_ (\$ \_\_\_\_\_).

**BASE BID – BUILDING SIX:**

For the sum of: \_\_\_\_\_  
\_\_\_\_\_ (\$ \_\_\_\_\_).

**BASE BID – BUILDING SEVEN:**

For the sum of: \_\_\_\_\_  
\_\_\_\_\_ (\$ \_\_\_\_\_).

**TOTAL BASE BID:**

For the sum of: \_\_\_\_\_  
\_\_\_\_\_ (\$ \_\_\_\_\_).

Contract will be awarded based on Total Base Bid. Bids for each building are requested for informational purposes only.

**UNIT PRICES:**

The contract sum shall be subject to the following Unit Prices for quantities which may be increased or decreased from the stated allowance. These Unit Prices include all materials, shipping, installation, tax, and contractor markup. Unit Prices may be stipulated in figures only.

**Unit Price No. 1 – Masonry Repair And Restoration**

Base Bid is to include an allowance of four thousand square feet (4,000 sq.ft.) of Masonry Repair and Restoration as shown on the Drawings and as specified.

Provide the following per-square foot price for additional masonry repairs and restoration beyond the 4,000 sq.ft. included in the Base Bid; this cost will be the basis for any subsequent requests for change orders to cover an increase in the quantity of masonry repairs and restoration.

ADD \$ \_\_\_\_\_/SF

Provide the following per-square foot price for deducting masonry repairs and restoration from the Base Bid quantity of 4,000 sq.ft.; this cost will be the basis for any subsequent requests for change orders to cover a decrease in the quantity of masonry repairs and restoration.

DEDUCT \$ \_\_\_\_\_/SF

**Unit Price No. 2 – Concrete Coping Repair And Restoration**

Base Bid is to include an allowance of two hundred fifty linear feet (250 ft.) of Concrete Coping Repair and Restoration.

Provide the following per-linear foot price for additional concrete coping repair and restoration in excess of the 250 linear ft. included in the Base Bid; this cost will be the basis for any subsequent requests for change orders to cover an increase in the amount of concrete coping repairs and restoration.

ADD \$ \_\_\_\_\_/LF

It is hereby certified that the undersigned is the only person(s) interested in this proposal as principal, and the proposal is made without collusion with any person, firm, or corporation. Bidder hereby agrees to execute the contract and furnish surety company bonds, in the forms incorporated in the contract documents, in the amount of one hundred (100%) percent of the contract price for performance, including maintenance, and for payment for labor and materials, respectively at the time required by the bidding documents, and to begin work within five (5) days following receipt of Notice to Proceed.

Bidder acknowledges receipt of the following addenda: (Please list by number and date)

\_\_\_\_\_  
\_\_\_\_\_

Bidder guarantees that, if awarded the contract, he will furnish and deliver all materials, tools, equipment, tests, transportation, secure all permits and licenses, and perform all labor, superintendence and all means of construction, pay all fees, except those specifically excluded in the Project Manual and do all incidental work to execute, construct, and finish the work in an expeditious, substantial, and workmanlike manner, in accordance with the contract documents to the complete satisfaction and acceptance of the Owner, for the prices stated.

It is understood that the Owner reserves the right to reject any/or all proposals, or part thereof or items therein, and to waive technicalities as required for the best interests of the Owner.

Liquidated damages will be assigned at the rate of \$500 per day for every calendar day, beyond the time period stated herein, that the work of this contract remains incomplete.

THE CONTRACT AMOUNT STATED ABOVE INCLUDES ALL APPLICABLE SALES TAXES, EXCISE AND OTHER TAXES FOR MATERIALS AND APPLIANCES SUBJECT TO AND UPON WHICH TAXES ARE LEVIED.

The undersigned agrees that the contract documents are incorporated herein by reference and shall be construed to be part thereof, with the same affect as if such were repeated at length herein, or where physically attached hereto. The undersigned further certifies that: (1) this proposal is genuine and is not sham, collusive, or fraudulent; (2) this proposal is not made in the interest or in behalf of any person other than the undersigned; (3) the undersigned has not sought in any manner, by collusion or otherwise, to secure any advantage over any other bidders.

Enclosed herewith is a bid security prepared in accordance with the Instructions to Bidders in the amount of five percent (5%) of the amount of the bid (being not less than 5% of the total of the base bid).

**SIGNATURE OF BIDDER:**

Firm: \_\_\_\_\_ By: \_\_\_\_\_

Address: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

**END OF BID FORM**

## SECTION 01100 - SUMMARY OF WORK

### PART 1 - GENERAL

#### 1.1 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Project consists of roof replacement of State Office Building Nos. 5, 6, and 7 located on the West Virginia Capital Complex, Charleston West Virginia as shown and specified.
- B. Contract Documents, dated March 16, 2009 were prepared for the Project by ZMM, Inc., Architects and Engineers, 222 Lee Street West, Charleston, West Virginia 25302.
- C. There will be a single prime contract for this project.

#### 1.2 CONTRACTOR USE OF PREMISES

- A. Buildings undergoing roof replacement will be occupied for the duration of construction. Contractor is to coordinate construction activities so as not to interfere with Owner's use of said buildings.
  - 1. Minimize noise and spread of dust and other debris during construction.
  - 2. Protect adjacent building construction and property during construction and effect any repairs to same made necessary due to construction operations.
- B. Use of the Site: Limit use of the premises to work in areas indicated. Do not disturb portions of the site beyond the areas in which the Work is required.
  - 1. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Coordinate with the Owner to determine areas of materials storage and equipment on-site.
- C. Entire building complex will be occupied by Owner's staff for the duration of construction. Conduct construction operations so as to avoid interference with Owner's use of buildings.

#### 1.3 WORK SEQUENCE

- A. Sequence of roof replacement is to begin with Building No. 5 followed by Contractor's choice of either Building no. 6 or no. 7 followed by the other. Roof replacement for Building no. 5 is to be progressed to a waterproof condition before proceeding with either Building no. 6 or no.7.

#### 1.4 WORK BY SEPARATE CONTRACT

- A. Separate contract work may progress simultaneously with the work of this contract.



1. Reference Article 6 of AIA Document A201: The General Conditions Of The Contract For Construction.
2. Coordinate any use of existing buildings, including elevators, with the Owner.

**1.5 CODE COMPLIANCE**

- A. Contractor is to comply with all applicable regulations of governmental authorities having jurisdiction over the project.
- B. The West Virginia State Building Code and West Virginia State Fire Code are made part of the contract documents in their entirety by cross reference, and compliance with these codes is mandatory.

**PART 2 - PRODUCTS (Not Applicable)**

**PART 3 - EXECUTION (Not Applicable)**

**END OF SECTION**

## SECTION 05500 - METAL FABRICATIONS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Loose steel lintels.
  - 2. Steel Beams.
  - 3. Miscellaneous Steel framing and supports for electrical and communication equipment.

#### 1.2 SUBMITTALS

- A. Shop Drawings: Detail fabrication and erection of each metal fabrication indicated. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.
- B. Mill Certificates: Signed by manufacturers of stainless-steel sheet certifying that products furnished comply with requirements.
- C. Welding Certificates: Copies of certificates for welding procedures and personnel.

#### 1.3 QUALITY ASSURANCE

- A. Fabricator Qualifications: A firm experienced in producing metal fabrications similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- B. Welding: Qualify procedures and personnel according to the following:
  - 1. AWS D1.1, "Structural Welding Code--Steel."
  - 2. AWS D1.3, "Structural Welding Code--Sheet Steel."
  - 3. Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.

#### 1.4 COORDINATION

- A. Coordinate installation of anchorages for metal fabrications. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

## **PART 2 - PRODUCTS**

### **2.1 FERROUS METALS**

- A. Steel Angles: ASTM A 36.
- B. W Shapes: ASTM A992.
- C. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- D. Steel Pipe: ASTM A 53, standard weight (Schedule 40), unless another weight is indicated or required by structural loads.
- E. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

### **2.2 FASTENERS**

- A. General: Provide Type 304 or 316 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633, Class Fe/Zn 5, where built into exterior walls. Select fasteners for type, grade, and class required.
- B. Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.
- C. Anchor Bolts: ASTM F 1554, Grade 36.

### **2.3 GROUT**

- A. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for exterior applications.

### **2.4 CONCRETE FILL**

- A. Concrete Materials and Properties: Comply with requirements in Division 3 Section "Cast-in-Place Concrete" for normal-weight, air-entrained, ready-mix concrete with a minimum 28-day compressive strength of 3000 psi, unless otherwise indicated.

### **2.5 FABRICATION, GENERAL**

- A. Shear and punch metals cleanly and accurately. Remove burrs.
- B. Ease exposed edges to a radius of approximately 1/32 inch, unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

- 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.
  4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- D. Remove sharp or rough areas on exposed traffic surfaces.

## 2.6 MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
  1. Fabricate units from slotted channel framing where indicated.
  2. Furnish inserts for units installed after concrete is placed.
- C. Galvanize miscellaneous framing and supports where indicated.
- D. Prime miscellaneous framing and supports with zinc-rich primer where indicated.

## 2.7 LOOSE STEEL LINTELS

- A. Fabricate loose structural-steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated.
- B. Weld adjoining members together to form a single unit where indicated.
- C. Size loose lintels to provide bearing length at each side of openings equal to one-twelfth of clear span, but not less than 8 inches, unless otherwise indicated.
- D. Galvanize all replacement loose steel lintels in located in exterior walls.

## 2.8 STEEL AND IRON FINISHES

- A. Galvanizing: Hot-dip galvanize all ferrous metal fabrications to comply with ASTM A 153/A 153M.
- B. Coatings:
  1. Prime Coat: Sherwin-Williams; Galvite HS Paint B50WZ0030: Applied at a dry film thickness of not less than 2.0 mils.
  2. Finish Coat: Two Coats of Sherwin-Williams; Industrial High Gloss Enamel B-54 Series: Applied at a dry film thickness of not less than 2.0 mils.
  3. Equivalent prime and finish coatings of other manufacturers as approved by Architect.

4. Finish coat color as selected by Architect.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION, GENERAL**

- A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; measured from established lines and levels.
- B. Field Welding: Comply with the following requirements:
  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.
  4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- C. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

#### **3.2 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS**

- A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.
- B. Install steel columns on concrete footings with grouted base plates. Position and grout column base plates as specified in 3.3 below.
  1. Grout base plates of columns supporting steel girders after girders are installed and leveled.

#### **3.3 SETTING BEARING AND LEVELING PLATES**

- A. Clean concrete bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of plates.
- B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with grout.
  1. Use nonshrink grout, either metallic or nonmetallic, in concealed locations where not exposed to moisture; use nonshrink, nonmetallic grout in exposed locations, unless otherwise indicated.
  2. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

### 3.4 ADJUSTING AND CLEANING

- A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop prime coating to comply with SSPC-PA 1 for touching up shop-painted surfaces.
  - 1. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.
- B. Touchup Painting: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in 2.8 above.
- C. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

**END OF SECTION**

## SECTION 08110 - STEEL DOORS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes steel doors.
- B. Door Louver.
- C. Existing steel door frame and finish hardware are to be re-used.

#### 1.3 SUBMITTALS

- A. Product Data: For door indicated, include door designation, type, level and model, material description, core description, construction details, label compliance, sound and fire-resistance ratings, and finishes.
- B. Door Schedule: Use same reference designations indicated on Drawings in preparing schedule for doors.

#### 1.4 QUALITY ASSURANCE

- A. Steel Door Standard: Comply with ANSI A 250.8, unless more stringent requirements are indicated.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver doors cardboard-wrapped or crated to provide protection during transit and job storage. Provide additional protection to prevent damage to finish of factory-finished doors.
- B. Inspect doors on delivery for damage, and notify shipper and supplier if damage is found. Minor damages may be repaired provided refinished items match new work and are acceptable to Architect. Remove and replace damaged items that cannot be repaired as directed.
- C. Store doors at building site under cover. Place units on minimum 4-inch- high wood blocking. Avoid using nonvented plastic or canvas shelters that could create a humidity chamber. If door packaging becomes wet, remove cartons immediately. Provide minimum 1/4-inch spaces between stacked doors to permit air circulation.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Subject to compliance with requirements, provide products by one of the following:
  - 1. Steel Doors:
    - a. Amweld Building Products, Inc.
    - b. Ceco Door Products; a United Dominion Company.
    - c. Mesker Door Incorporated.
    - d. Republic Builders Products.
    - e. Steelcraft; a division of Ingersoll-Rand.

### **2.2 MATERIALS**

- A. All door materials including louver, are to be Metallic-Coated Steel Sheets as follows:
  - 1. ASTM A 653/A 653M, Commercial Steel (CS), Type B, with an A40 zinc-iron-alloy (galvannealed) coating; stretcher-leveled standard of flatness.

### **2.3 DOORS**

- A. General: Provide doors of sizes, thicknesses, and designs indicated.
- B. Exterior Doors: Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:
  - 1. Level 3 and Physical Performance Level A (Extra Heavy Duty), Model 1 (Full Flush).
  - 2. Steel Sheet Face Thickness: 0.0598-inch (16 ga.).

### **2.4 FABRICATION**

- A. General: Fabricate steel door and frame units to comply with ANSI A250.8 and to be rigid, neat in appearance, and free from defects including warp and buckle. Where practical, fit and assemble units in manufacturer's plant. Clearly identify work that cannot be permanently factory assembled before shipment, to assure proper assembly at Project site.
- B. Exterior Door Construction: For exterior locations and elsewhere as indicated, fabricate doors, panels, and frames from metallic-coated steel sheet. Close top and bottom edges of doors flush as an integral part of door construction or by addition of 0.053-inch- thick, metallic-coated steel channels with channel webs placed even with top and bottom edges.
- C. Core Construction: Manufacturer's standard core construction that produces a door complying with SDI standards.
- D. Clearances for Non-Fire-Rated Doors: Not more than 1/8 inch at jambs and heads, except not more than 1/4 inch between pairs of doors. Not more than 3/4 inch at bottom.
- E. Tolerances: Comply with SDI 117, "Manufacturing Tolerances for Standard Steel Doors."
- F. Fabricate concealed stiffeners, reinforcement, edge channels, louvers, and moldings from either cold- or hot-rolled steel sheet.



- G. Exposed Fasteners: Unless otherwise indicated, provide countersunk flat or oval heads for exposed screws and bolts.
- H. Hardware Preparation: Prepare doors to receive mortised and concealed hardware according to final door hardware schedule and templates provided by hardware supplier. Comply with applicable requirements in ANSI A250.6 and ANSI A115 Series specifications for door and frame preparation for hardware.
- I. Reinforce doors to receive surface-applied hardware. Drilling and tapping for surface-applied hardware may be done at Project site.
- J. Locate hardware as indicated on Shop Drawings or, if not indicated, according to ANSI A250.8.

## **2.5 LOUVERS**

- A. Provide door manufacturer's standard exterior louvers where indicated, that comply with SDI 111C, with blades or baffles formed of 0.020-inch - thick, cold-rolled metallic coated steel sheet set into 0.032-inch - thick steel frame.
  - 1. Sightproof Louver: Stationary louvers constructed with inverted V-shaped or Y-shaped blades.

## **2.6 FINISHES**

- A. Coatings:
  - 1. Prime Coat: Sherwin-Williams; Galvite HS Paint B50WZ3: Applied at a dry film thickness of not less than 2.0 mils.
  - 2. Finish Coat: Two Coats of Sherwin-Williams; Industrial Enamel B-54 Series: Applied at a dry film thickness of not less than 2.0 mils.
  - 3. Equivalent prime and finish coatings of other manufacturers as approved by Architect.
  - 4. Finish coat color as selected by Architect.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

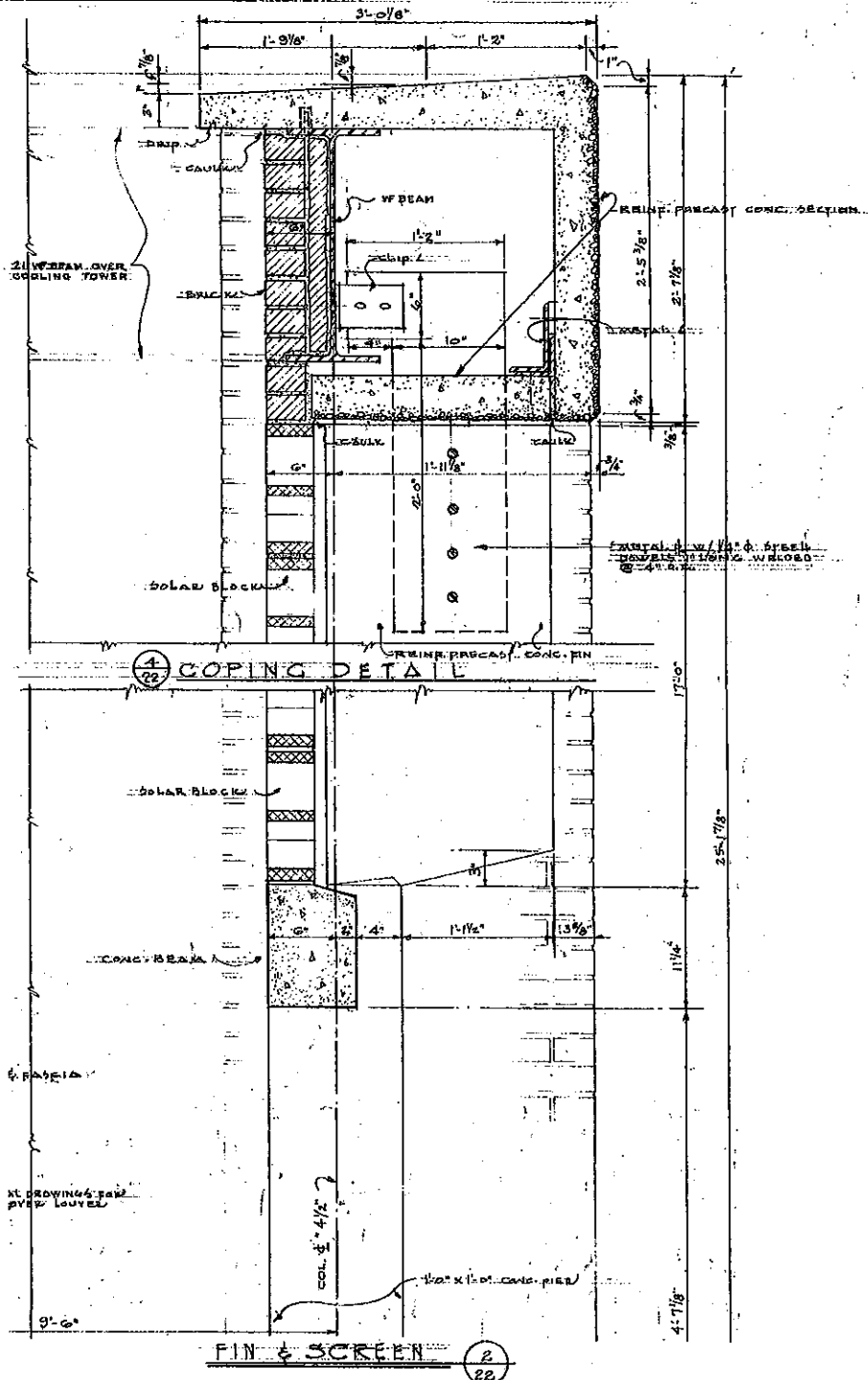
- A. General: Install steel doors and accessories according to Shop Drawings, manufacturer's data, and as specified.
- B. Door Installation: Comply with ANSI A250.8. Fit hollow-metal doors accurately in frames, within clearances specified in ANSI A250.8. Shim as necessary to comply with SDI 122 and ANSI/DHI A115.1G.

### **3.2 ADJUSTING AND CLEANING**

- A. Prime-Coat Touchup: Immediately after installation, sand smooth any rusted or damaged areas of prime coat and apply touch up of compatible air-drying primer.

**END OF SECTION**





# ENLARGED SECTION DETAILS OF SCREEN TO BE DEMOLISHED

SCALE : 3/4" = 1'-0"



Z M M , INC.  
ARCHITECTS • ENGINEERS  
222 LEE STREET W  
CHARLESTON, WV 25302  
PHONE (304) 342-0159  
FAX (304) 345-8144

## SUPPLEMENTAL DRAWING

- NEW DRAWING or DETAIL \_\_\_\_\_ on sheet \_\_\_\_\_
- REVISION OF DRAWING or DETAIL \_\_\_\_\_ on sheet \_\_\_\_\_
- CLARIFICATION OF DRAWING or DETAIL \_\_\_\_\_ on sheet \_\_\_\_\_

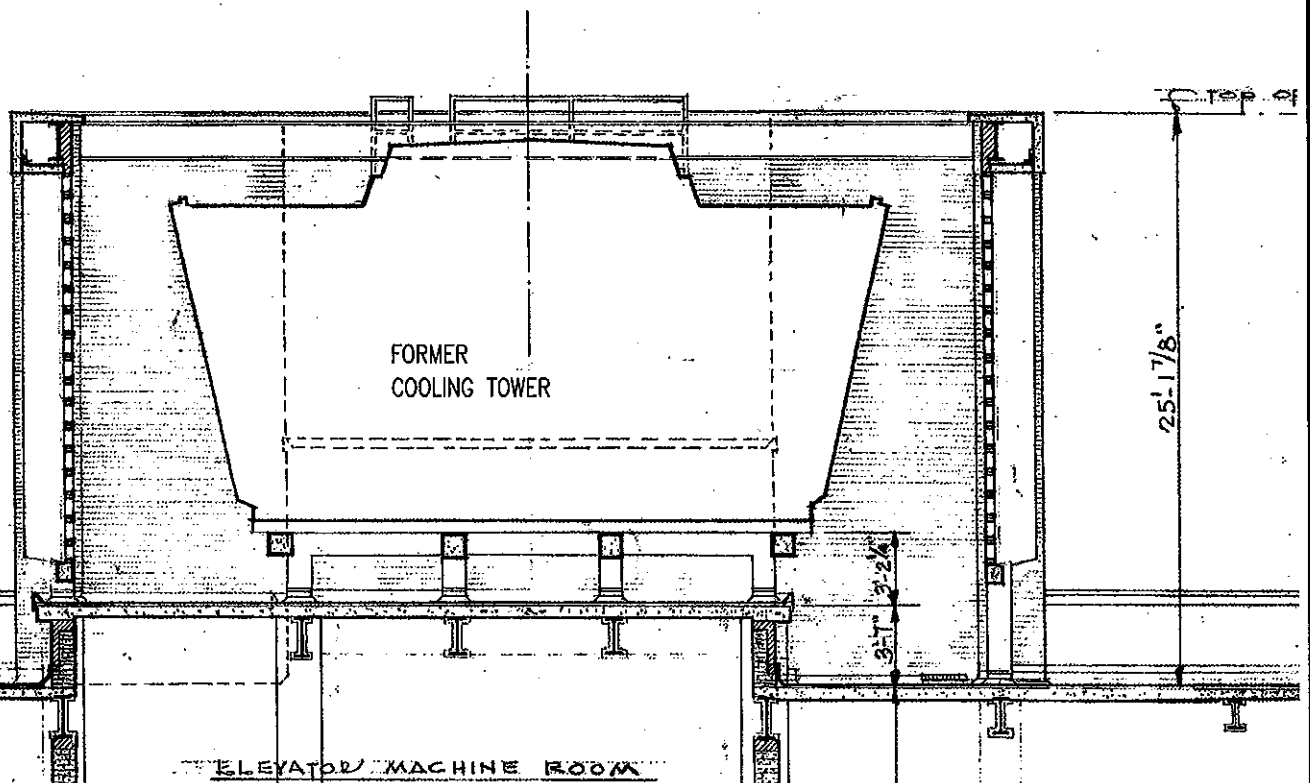
ATTACHMENT TO:  
 ADDENDUM NO. \_\_\_\_\_  
 CHANGE ORD. NO. \_\_\_\_\_  
 C.C.D. NO. \_\_\_\_\_

BY: **PAS**

COMM. NO.  
**0812**


**STATE OFFICE BUILDING**  
CHARLESTON, WEST VIRGINIA

DWG. NO.  
**AD-X2**



# BUILDING SECTION SHOWING SCREEN

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

 <p>Z M M , INC. ARCHITECTS • ENGINEERS 222 LEE STREET W CHARLESTON, WV 26302 PHONE (304) 342-0159 FAX (304) 345-8144</p>	<p style="text-align: center;">SUPPLEMENTAL DRAWING</p> <p><input type="checkbox"/> NEW DRAWING or DETAIL _____ on sheet _____</p> <p><input type="checkbox"/> REVISION OF DRAWING or DETAIL _____ on sheet _____</p> <p><input type="checkbox"/> CLARIFICATION OF DRAWING or DETAIL _____ on sheet _____</p>	<p>ATTACHMENT TO:</p> <p><input type="checkbox"/> ADDENDUM NO. _____</p> <p><input type="checkbox"/> CHANGE ORD. NO. _____</p> <p><input type="checkbox"/> C.C.D. NO. _____</p> <p>BY: <b>PAS</b></p>
<p>COMM. NO. <b>0812</b></p>	<p style="text-align: center;"><b>STATE OFFICE BUILDING</b> CHARLESTON, WEST VIRGINIA</p>	<p>DWG. NO. <b>AD-X3</b></p>

# BUILDING 5 STAGING LOCATION

