



26 July 2020

Fairgrounds Improvements (Coliseum Roofing Repairs)
Jackson, Mississippi
G.S. #343-115



ADDENDUM NO. 03

NOTICE TO ALL DOCUMENT HOLDERS:

The following additions, deletions, changes and clarifications to the drawings and specifications are to be included as part of the Contract Documents.

GENERAL NOTES

- ITEM NO. 01** **Project Bid Date:** The project bid opening will be revised to be on August 3, 2021 at 2:00 PM.
- ITEM NO. 02** **Project Days:** The contract duration will be 15 months (465 calendar days) from the notice to proceed. The contract duration has been set to allow for any material delays or shortages due to COVID-19.
- ITEM NO. 03** **GENERAL NOTE NO. 11:** Existing Lightning Protection system to be re-certified upon completion of the roofing work and/or ridge cap replacement.
- ITEM NO. 04** **ALTERNATE NO. 5:** Add Snow Guard at perimeter of Coliseum, See Specifications

SPECIFICATIONS

- ITEM NO. 05** **Section 00300 – PROPOSAL FORM**
DELETE specification section in its entirety and **REPLACE** with the enclosed section. REVISED to add calendar days and Alternate descriptions.
- ITEM NO. 06** **Section 07 7100 – ROOF SPECIALTIES**
DELETE specification section in its entirety and **REPLACE** with the enclosed section. REVISED to add information for snow guards.
- ITEM NO. 07** **Section 07 7227 – FALL PROTECTION DEVICES**
ADD specification section in its entirety with the enclosed section. ADD information for fall arrest system.
- ITEM NO. 08** **Section 07 9200 – JOINT SEALANTS**
DELETE specification section in its entirety and **REPLACE** with the enclosed section.

ITEM NO. 09 **Section 09 9113 – EXTERIOR PAINTING**
DELETE specification section in its entirety.

DRAWINGS

No ITEMS **None**

QUESTIONS and ANSWERS

1. Do you want butyl tape/ caulking at the patches or soldering the pop rivets? We recommend using caulk because of the movement in the copper. **Caulking or Butyl Tape is acceptable**
2. Do you want the flange for the repair caps caulked or soldered. We recommend Caulking because of the movement in the copper. **Caulking or Butyl Tape is acceptable**
3. Does anything get painted? There is a paint spec. **See Item No. 08**
4. For Alternate #4 we will need a fall arrest spec. **See Item No. 06**
5. Are we replacing all drain strainers on the copper roof or just the missing ones? **Replace ALL Strainers**
6. Is Fountain installing the new roof drains on the Modified Roofs and the strainers in their contract?
Lower roof drains are existing and not in contract, Drains at high roof are to be repaired per drawings.
7. Are you wanting us to have the Lightning Protection System Re-Certified once we remove and replace the ridge cap where the post are mounted? **See Item No. 02**

Encl: **Specifications (8.5x11):**
07.7100 Roof Specialties; 07.7227 Fall Protection Devices; 07.9200 Joint Sealants

Drawings (24x36):
none

cc: All Document Holders
File 0820.C2



PROPOSAL FORM
SECTION 00300

To: Bureau of Building, Grounds and Real Property Management
501 North West Street, Suite 1401B [Woolfolk Building]
Jackson, Mississippi 39201

Re: Project # 343-115
Project Title Fairgrounds Improvements - Coliseum Roofing Repairs
Location Jackson, Mississippi

I propose to complete all work in accordance with the Project Manual and Drawings within 465 consecutive calendar days for the sum of: (Professional must specify number of days)

BASE BID: (Write in the amount of the base bid in words and numbers. The written word shall govern.)

Words: _____ Dollars
Figures: (\$ _____)

ALTERNATES: (Write in the amount of all of the alternates in words and numbers. The written word shall govern.)

Alternate #1 Adds Deducts

Words: _____ Dollars
(\$ _____)

Description: Replace Roof at South Entry Lower Roof

Alternate #2 Adds Deducts

Words: _____ Dollars
(\$ _____)

Description: Replace Roof at Mechanical Tower Lower Roof

Alternate #3 Adds Deducts

Words: _____ Dollars
(\$ _____)

Description: Replace Roof at North Entry Lower Roof

Alternate #4 Adds Deducts

Words: _____ Dollars
(\$ _____)

Description: Install Fall Arrest System, See Specifications

Alternate #5 Adds Deducts

Words: _____ Dollars
(\$ _____)

Description: Add Snow Guard at perimeter of Coliseum, See Specifications

Division 0

ADDENDA ACKNOWLEDGMENT: (modified dates August 2016)

No. _____ No. _____ No. _____
No. _____ No. _____ No. _____

ACCEPTANCE:

I certify that I am authorized to enter into a binding contract, if this Proposal is accepted.

Signature _____ Date _____
Name and Title _____
Name of Business _____

Complete spelling of bidder's name and address - **exact as recorded at the Secretary of State**

[<http://www.sos.state.ms.us/busserv/corp/soskb/csearch.asp>] which should be the same as you applied for at the Mississippi State Board of

Contractors [<http://www.msdoc.us/Search2.CFM>] (see 2.07, 3.01, 5.01) **PLEASE LOOK IT UP at SoS. SoS rules when the 2 are different.**

Address _____ (mailing)
Address _____ (physical)
City/State/Zip Code _____ County _____
Phone _____ Fax _____ Email _____

- **BIDDER'S CERTIFICATE OF RESPONSIBILITY NUMBER(S):** _____
- **MINORITY BUSINESS ENTERPRISE?** Yes _____ No _____ (to assist with Code 57-1-57)

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- Attach copy of Non-Resident Bidder's Preference Law (5.04 of Bidder's Checklist)

■ **Mechanical / Plumbing / Electrical Contractors:** (modified Dec 2013 SoS per 10/17/12 Addendum 1 & Feb 2014; 021219 over \$50,000.00; modified 04/06/2020)

Regarding said Divisions of the Specifications of the BoB Standard Form of Agreement Between The Owner and The Contractor:

List any Mechanical/Plumbing and/or Electrical Sub-Contractors that will perform work of this contract, regardless of cost even for under \$50,000.00. COR must be included where sub-contract exceeds \$50,000.00. If no sub-contractor is listed, and such work is within scope of contract and over \$50,000.00, bidder's own COR classification(s) must be sufficient to self-perform any such work. If no sub-contractor is listed, then use of sub-contractor to perform such scope will not be permitted. This is in accordance with 5.05 and 5.06 of the Bidder's Checklist.

Mechanical Contractor: _____ Certificate of Responsibility No. _____
Plumbing Contractor: _____ Certificate of Responsibility No. _____
Electrical Contractor: _____ Certificate of Responsibility No. _____

Division 0

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Manufactured roof specialties, including copings.
- B. Snow Guards

1.2 RELATED REQUIREMENTS

- A. Section 07.7200 - Roof Accessories: Manufactured curbs and roof hatches

1.3 REFERENCE STANDARDS

- A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels; 2013.
- B. ANSI/SPRI/FM 4435/ES-1 - Test Standard for Edge Systems Used with Low Slope Roofing Systems; 2017.
- C. NRCA (RM) - The NRCA Roofing Manual; 2017.

1.4 SUBMITTALS

- A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on shape of components, materials and finishes, anchor types and locations.
- C. Shop Drawings: Indicate configuration and dimension of components, adjacent construction, required clearances and tolerances, and other affected work. Details must be project specific. Manufacturer's or NRCA standard details will not be acceptable.
- D. Manufacturer's Installation Instructions: Indicate special procedures, fasteners, supporting members, and perimeter conditions requiring special attention.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Roof Edge Flashings and Copings:
 - 1. or approved equal. .
 - 2. Substitutions: See Section 01.6000 - Product Requirements.
- B. Snow Guards:
 - 1. RT Snow Guard System by Berger Building Products or an approved equal.
 - a. Cast bronze with stainless steel set screws
 - 2. Substitutions: See Section 01.6000 - Product Requirements.

2.2 COMPONENTS

- A. Copings: Factory fabricated to sizes required; mitered, welded corners; concealed fasteners.
 - 1. Configuration: Concealed hold down cleats at both legs; internal splice piece at joints of same material, thickness and finish as cap; concealed stainless steel fasteners. Metal coping cap with galvanized steel anchor cleats with 26 gauge stainless steel spring and gutter support chairs for capping any parapet wall. The system shall be watertight, maintenance free, and not require exposed fasteners or sealant. Joints shall be butt type with concealed splice plates.
 - a. Coping sections shall expand and contract freely while mechanically locked in place on anchor cleats.
 - b. Coping sections shall lock to anchor cleats by mechanical pressure from support chairs.
 - c. All coping cover joints shall be underlaid with gutter/support chairs capable of draining water.

2. Pull-Off Resistance: Tested in accordance with ANSI/SPRI/FM 4435/ES-1 using test method RE-3 to positive and negative design wind pressure as defined by applicable local building code.
3. Material: Formed steel sheet, galvanized, 24 gage, 0.024 inch (0.6 mm) thick, minimum.
4. Coping vertical 4.5" face and 4" back leg
5. Finish: 70 percent polyvinylidene fluoride.
6. Color: To be selected by Architect from manufacturer's standard range.
7. Gutter/support chair: Metal Gutter Chair in color and finish to match coping cap.
8. Fasteners: Shall be stainless steel screw type with a minimum pull-out resistance of 240 # (109 kg) as supplied by the manufacturer per substrate application. No exposed fasteners shall be permitted.
9. Manufacturers:
 - a. or approved equal.
 - b. Substitutions: See Section 01.6000 - Product Requirements.

2.3 ACCESSORIES

- A. Corners, end caps, pier caps, etc. shall be fabricated by the coping manufacturer.
- B. Welded assembly shall be used to maintain watertight integrity
- C. Snow guard spacing to be installed at each perimeter seam or as recommended by manufacturer.

2.4 FINISHES

- A. PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic Finish, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system; color as selected from manufacturer's standard colors.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that deck, curbs, roof membrane, base flashing, and other items affecting work of this Section are in place and positioned correctly.
- B. Installing contractor shall check as-built conditions and verify the manufacturer's coping details for accuracy to fit the wall assembly prior to fabrication. The installer shall comply with the coping manufacturer's installation guide when setting copings.

3.2 INSTALLATION

- A. Install components in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.

END OF SECTION

Fall Arrest System

PART 1 GENERAL

1. SUMMARY
 - A. Section Includes: Roof tie-down system of fall restraint and fall arrest for worker safety.
 - B. Related Sections:
 1. Section 05100 – Structural Metal Framing
 2. Section 05400 – Cold Formed Metal Framing
 3. Section 05310 – Metal Decking
 4. Section 07700 – Roof Specialties and Accessories
2. REFERENCES
 - A. American Society for Testing and Materials (ASTM)
 - B. American National Standard Institute (ANSI)
 1. ANSI Z359.1-2007 – Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components
 2. ANSI Z359.6-2009 – Specifications and Design Requirements for Active Fall Protection Systems
 - C. Occupational Health And Safety Administration (OSHA)
 1. OSHA 1926.502 – Fall Prevention Systems Criteria and Practices
3. SYSTEM DESCRIPTION
 - A. General: Provide structural fall restraint and fall arrest system capable of withstanding loads and stresses within limits and under conditions specified in OSHA and other applicable safety codes. Provide fall protection system permanently attached to roof structure. Provide cable lifeline system to allow continuous travel past intermediate anchor points.
 - B. Design Requirements: Anchors and accessories comprising system of following types:
 1. Guardian CB Hybrid Anchors, spaced as indicated by manufacturer, for safety snap connection by individual workers capable of withstanding a 5,000 pound load or safety factor of 2 meeting the requirements of OSHA 1926.502(d)(8).
 2. Continuous stainless steel cable lifeline restrained by swaged terminations at anchor points, suitable for multiple safety snap connections along cable between anchors.
 3. Tensioning system.
 4. In-line shock absorbers.
 5. Pass-thru technology allowing cable shuttle to run freely past intermediate anchors without the need to disconnect from the fall protection system.
 - C. Performance Requirements: System and components tested for the resistance of the following loads:
 1. Fall Arrest: 2 Users
 2. Provide engineered system capable of withstanding a safety factor of 2 meeting the requirements of OSHA 1926.502(d)(8).
 3. Design system to limit loads on horizontal lifeline anchors to 2,500 pounds.
4. SUBMITTALS
 - A. Product Data: For each type of device specified, including manufacturer's standard fabrication details and installation instructions.
 - B. Shop Drawings: Show layout, profiles, and anchorage details. Shop drawings & calculations to be stamped by a Professional Engineer registered in the State in which the project is located.
 - C. Maintenance Data: Written instructions for maintenance of fall prevention safety devices to be included in the operation and maintenance manual.
 - D. Signage: Provide laminated sign showing system layout and usage notes, to be installed at roof access locations.

5. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Firm having at least 10 years continuous experience in manufacturing fall safety equipment similar to systems specified and exhibiting records of successful in-service acceptability and performance. Firm must employ personnel dedicated to provide regularly scheduled Authorized and Competent Person Training courses as mandated by OSHA 1926 and 1910 for owner's authorized safety personnel.
- B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in the jurisdiction where the Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of roof anchors that are similar to those indicated for this Project in material, design and extent.
- C. OSHA Standards: Comply with Occupational Safety and Health Administration Standards for the Construction Industry 29 CFR § 1926.500 Subpart M (Fall Protection), and with applicable State Administrative Code safety standards for Fall Restraint and Fall Arrest.
- D. Source Limitations: Obtain all roof anchors through one source from a single manufacturer.
- E. Testing: Perform quality control tests for each system per manufacturer's requirements.

6. COORDINATION

- A. Contractor to coordinate installation system to the existing deck to meet requirements of roof anchor manufacturer.
 - 1. Existing structural deck and roof shall be approved by a Qualified Person.
- B. Contractor to coordinate installation of structural deck reinforcements and anchorages to receive fall protection anchors.

7. WARRANTY

- A. Provide manufacturer's standard warranty to guarantee products will be free from defects for a period of 12 months. Warranty period shall become effective on date of substantial completion.

PART 2 – PRODUCTS

1. MANUFACTURER

- A. Provide fall protection system manufactured by Guardian Fall Protection Inc., 6305 South 231st Street Kent, WA, phone 800-466-6385, fax 800-670-7892, or equal.

2. MATERIALS

- A. Anchor post: 2-1/2" schedule 80 pipe, galvanized steel (size as necessary for height).
- B. Anchor base plate: galvanized steel.
- C. Anchor cap plate: type 304 stainless steel.
- D. Lifeline components: Aluminum and type 304 stainless steel.
 - 1. Tensioner Set: Tensioning unit with turnbuckle and tension indicator.
 - 2. Intermediate supports: Intermediate straight and elbow units to attach to roof anchors, allowing cable to slide freely.
 - 3. Terminations: Swaged terminations to attach cable to end anchors. Cable clamps are not acceptable.
 - 4. In-line Shock Absorbers: As determined by manufacturer to reduce loads exerted on anchor points.
- E. Lifeline Cable: 8mm 7x7 type 316 stainless steel wire rope as tested by fall protection device manufacturer to permit worker continuous mobility and safety.
- F. Cable Shuttles: Detachable cable shuttle providing secure attachment to cable at any location. Type 304 stainless steel.

- G. Fasteners: Unless otherwise indicated, provide stainless steel fasteners or zinc-plated fasteners with coating complying with ASTM B 633 F 1941, Class Fe/ZN 5, or equivalent. Select fasteners for type, grade, and class required.
- 3. FABRICATION
 - A. Fabricate work true to dimension, square, plumb, level, and free from distortions or defects detrimental to appearance and performance.
 - B. Prepare, treat and coat galvanized metal to comply with manufacturer's written instructions. Prepare galvanized metal by removing grease, dirt, oil, flux, and other foreign matter.

PART 3 – EXECUTION

- 1. EXAMINATION
 - A. Examine framing and substrate and verify conditions comply with structural requirements for proper system performance.
 - B. Proceed with installation of roof anchors only after verifying conditions are satisfactory.
- 2. INSTALLATION
 - A. General: Installation of anchor points to be performed by contractor according to manufacturer's instructions and recommendations.
 - B. Provide on-site inspection and supervision of installation of lifeline components by factory-trained representative.
- 3. TRAINING
 - A. Instruct Owner's designated safety engineer in proper use of fall protection safety devices.
 - B. Adjust system devices as required by manufacturer. Replace damaged or malfunctioning items.

A. END OF SECTION

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Nonsag gunnable joint sealants.
2. RELATED REQUIREMENTS
 - A. Section 07.1300 - Sheet Waterproofing: Sealing cracks and joints in waterproofing substrate surfaces using materials specified in this section.
 - B. Section 07.2500 - Weather Barriers: Sealants required in conjunction with water-resistive barriers.
3. REFERENCE STANDARDS
 - A. ASTM C1193 - Standard Guide for Use of Joint Sealants 2016.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements for submittal procedures.
 - B. Product Data for Sealants: Submit manufacturer's technical data sheets for each product to be used, that includes the following.
 1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
 2. List of backing materials approved for use with the specific product.
 3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
 4. Substrates the product should not be used on.

PART 2 PRODUCTS

1. MANUFACTURERS
 - A. Non-Sag Sealants: Permits application in joints on vertical surfaces without sagging or slumping.
 1. Dow; [____]: www.dow.com/#sle.
 2. Sika Corporation; [____]: www.usa.sika.com/#sle.
 3. Tremco Commercial Sealants & Waterproofing; [____]: www.tremcosealants.com/#sle.
 4. W.R. Meadows, Inc; [____]: www.wrmeadows.com/#sle.
 5. Substitutions: See Section 01.6000 - Product Requirements.
2. JOINT SEALANT APPLICATIONS
 - A. Scope:
 1. Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items.
 - a. Wall expansion and control joints.
 - b. Joints between different exposed materials.
 - c. Other joints indicated below.
 2. Do not seal the following types of joints.
 - a. Joints indicated to be treated with manufactured expansion joint cover or some other type of sealing device.
 - b. Joints where sealant is specified to be provided by manufacturer of product to be sealed.
 - c. Joints where installation of sealant is specified in another section.
 - B. Type [____] - Exterior Joints: Use non-sag non-staining silicone sealant, unless otherwise indicated.
 1. Type [____] - Lap Joints in Sheet Metal Fabrications: Butyl rubber, non-curing.

PART 3 EXECUTION

1. EXAMINATION
 - A. Verify that joints are ready to receive work.

B. Verify that backing materials are compatible with sealants.

2. PREPARATION

A. Remove loose materials and foreign matter that could impair adhesion of sealant.

B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.

C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.

D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3. INSTALLATION

A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Perform installation in accordance with ASTM C1193.

C. Install bond breaker backing tape where backer rod cannot be used.

D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

E. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.

F. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

A. END OF SECTION