

Addendum

No. ONE Date: 04.08.2019

Project:

**RE-ROOFING CAFETERIA BUILDING AT
ELMORE COUNTY HIGH SCHOOL FOR THE
ELMORE COUNTY SCHOOLS
WETUMPKA, ALABAMA**

MCKEE PROJECT NO. 19-144

A1.1 GENERAL MODIFICATIONS:

- A. The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.
- B. Bidders shall acknowledge receipt of this Addendum in writing on his Proposal Form.

A1.2 SPECIFICATION MODIFICATIONS:

- A. Refer to **Section 01000, Alternates**, herein.
- B. Refer to Section, **07310, Shingles (Architectural) (Revised 4.8.19)**, herein.

A1.3 DRAWING MODIFICATIONS: NONE

END OF ADDENDUM ONE

SECTION 01000 - ALTERNATES

PART 1 - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

DESCRIPTION OF REQUIREMENTS

Definition: An Alternate is an amount proposed by bidders and stated on the Proposal Form that will be added to or deducted from Base Bid amount if the Owner decides to accept a corresponding change in either scope of work or in products, materials, equipment, systems or installation methods described in Contract Documents.

Coordination: Coordinate related work and modify or adjust adjacent work as required to ensure that work affected by each accepted Alternate is complete and fully integrated into the project.

Notification: Immediately following award of Contract, prepare and distribute to each party involved notification of the status of each Alternate. Indicate whether Alternates have been accepted, rejected or deferred for consideration at a later date. Include a complete description of negotiated modifications to Alternates, if any.

Schedule: A "Schedule of Alternates" is included at the end of this section. Specification section referenced in the Schedule contain requirements for materials and methods necessary to achieve the work described under each Alternate.

Include as part of each Alternate, miscellaneous devices, appurtenances and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

SCHEDULE OF ALTERNATES

ADDITIVE Bid Alternate #1 Additional Cost to remove existing shingles to decking prior to installation of new shingle roofing. Install underlayments and roofing per Section 07310, Shingles (Architectural).

END OF SECTION

SECTION 07310 – SHINGLES (ARCHITECTURAL) (Revised 4.8.19)

PART 1 – GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

DESCRIPTION OF WORK:

Extent of shingles is shown on drawings and is hereby defined to include units employed as weather protection for walls as well as for roofs.

Types of shingle applications specified in this section include the following:

1. Fiberglass shingle roofing
2. Underlayments
3. Roof Vents.

QUALITY ASSURANCE:

The Contractor shall engage and pay a Certified Roofing Consultant, approved by Architect, will attend the pre-roofing conference and provide a certificate of compliance in a start-up, in progress and final inspection mode, certifying that the roof system will be approved to receive a **20** Year manufacturer's warranty.

Recognized approved independent firm for this project:

1. Roof Asset Management, Inc.
4950 Woodfield Drive
Millbrook, Alabama 36054
(334) 590-7999
David Lee

UL Listing: Provide labeled materials which have been tested and listed by UL for Class and Rating indicated for each shingle type required.

Impact Resistance: Roof coverings installed on low-slope roofs (roof slope <2:12) shall resist impact damage based on the results of tests conducted in accordance with ASTM D 3746,

ASTM D 4272, CGSB 37-GP-52M or the "Resistance to Foot Traffic Test " FM 4470.

SUBMITTALS:

Product Data: Submit technical product data, installation instructions and recommendations from shingle manufacturer, including data that materials comply with requirements. Shingles shall be installed in accordance with manufacturer's instructions.

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Samples: Submit full range of samples for color and texture selection. After selection, submit 2 full-size shingles for verification of each color/style/texture selected.

Product Handling: Deliver materials in manufacturer's unopened, labeled containers. Store materials to avoid water damage, and store rolled goods on end.

JOB CONDITIONS:

Substrate: Proceed with shingle work only after substrate construction and penetrating work have completed.

Weather Conditions: Proceed with shingle work only when weather conditions are in compliance with manufacturer's recommendations and when substrate is completely dry.

SPECIFIED PRODUCT WARRANTY:

The roofing manufacture shall be required to provide documentation certifying that the roof design provided complies with the performance requirements as set forth in IBC Chapter 15, Section 1504. The documentation shall be attached to the roof warranty at the close out of the project.

Provide shingle manufacturer's warranty on installed work, agreeing to pay for repair or replacement of defective shingles as necessary to eliminate leaks. Period of warranty is **30 years from date of substantial completion of Project.**

Standard manufacturer's roofing guarantees which contain language regarding the governing of the guarantee by any state other than the State of Alabama, must be amended to exclude such language and substituting the requirement that the Laws of the State of Alabama shall govern all such guarantees.

All roof warranties shall be provided to the Owner, by the Contractor at the Final Inspection to obtain the Substantial Completion.

SPECIAL PROJECT WARRANTY:

Contractor shall furnish Contractors 5 Year Alabama Building Commission Roofing Guarantee.

Warranty shall include the following: The General Contractor and Roofing Installer shall be responsible for all water damaged materials due to roof leaks for a period of 5 years.

PART 2 – PRODUCTS

SHINGLES

Architectural Shingles, UL Class "A": Mineral-surfaced, self-sealing, fiberglass-based asphalt strip shingles complying with ASTM D 3018, Type I, bearing UL Class "A" external fire exposure label and UL "Wind Resistant" label.

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Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

1. Owens-Corning Duration Series
 - a. 130 mph wind warranty
 - b. Color to be selected by the Architect from manufactures standards.
 - c. Approved Equal products:
 1. GAF
 2. Celotex.
 3. Elk
 4. Tamko

UNDERLAYMENT

1. Synthetic Underlayment: One layer of a Class A synthetic flame retardant underlayment.

Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

- A. Palisade Synthetic Underlayment; SDP Advanced Polymer Products
 1. Tensile Strength – ASTM D226 – 150lbs
 2. Tear Strength – ASTM D4533 – 50lbs
 3. Puncture Strength – ASTM D751 – 300 psi
 4. UV Rating – ASTM G90 – 90%
 5. Permeability – ASTM 96-A – 0.10 Perms
 6. Thickness – ASTM D5147 – 25 mills
 7. Weight per Square – ASTM D5261 – 4 lbs.
 8. Install with roofing nails – no staples will be allowed.
 9. Approved Equal products:
 - a. GAF
 - a. Tamko
 - b. ELK
 - c. CertainTeed
2. Self-Adhered Underlayment: At all Valleys, Ridges, Hips and Eaves install 40 mil self-adhering ice and water shield membrane.

Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

- A. Palisade SA-HT; SDP Advanced Polymer Products
 1. Color - KOOL BLUE™
 2. Top Surface - STRONGHOLD™ Anti-Skid Technology: Polymer
 3. Bottom Release Liner - Silicone Split Release Poly
 4. Permeability - ASTM E96 - 00 0.01 perms
 5. Nominal Thickness - ASTM D1777 - 40 mil (1 mm)
 6. Nail Sealability - ASTM D1970 - Pass

7. Lap Sealability - ASTM D1970 - Pass
8. Tensile Strength - ASTM D226 - 121 lbf/in. (21kN/m)
9. Tear Strength - ASTM D4523 - 160 lbf/in. (28 kN/m)
10. Elongation - ASTM D2523-00 - 16%
11. Low Temperature Flexibility - ASTM D1970 - -22 F (-30 C) - Pass
12. Adhesion to Plywood - ASTM D1876 - 55 lbf/in.:75 F (9.6 kN/m: 24 C)
13. Adhesion to Plywood - ASTM D1876 - 23 lbf/in.: 40 F (4 kN/m: 4.4 C)
14. UV Exposure - ASTM G90 - 6 months
15. Temperature Range - ASTM D1970 - LT: 15 F (-9 C) to HT: 250 F (121 C)
16. Dimensions - 36 in. x 66.7 ft. (91.4 cm x 20.3 m)
17. Approved Equal products:
 - a. Carlisle Dri-Start A
 - b. Tamko Moisture Guard

VENTS

1. Fixed Ridge Vents:

Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

A. Cor-A-Vent V-600

1. 11" wide
2. 18 square inches NFVA per lin. ft..
3. Approved Equal products:
 - a. CertainTeed 12" Filtered Ridge Vent
 - b. GAF Cobra Ridge Vent 3

PART 3 – EXECUTION

Installer of shingles must examine substrate and conditions under which shingling work is to be performed and must notify Contractor in writing of unsatisfactory conditions. Do not proceed with shingling work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

PRE-ROOFING CONFERENCE:

A pre-roofing conference is required before any roofing materials are installed. This conference shall be conducted by a representative of the Architect and attended by representatives of the Owner, Building Commission Inspector, General Contractor, Roofing Contractor, Sheet Metal Contractor, Roof Deck Manufacturer (if applicable), and the Roofing Materials Manufacturer (if warranty is required of this manufacturer). If equipment of substantial size is to be placed on the roof, the Mechanical Contractor must also attend this meeting. Provide at least 72 hours advance notice to participants prior to convening pre-roofing conference.

The pre-roofing conference is intended to clarify demolition and application requirements for work to be completed before roofing operations can begin. This would include a detailed review

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of the specifications, roof plans, roof deck information, flashing details, and approved shop drawings, submittal data, and samples. If conflict exists between the specifications and the Manufacturer's requirements, this shall be resolved. If this pre-roofing conference cannot be satisfactorily concluded without further inspection and investigation by any of the parties present, it shall be reconvened at the earliest possible time to avoid delay of the work. In no case should the work proceed without inspection of all roof deck areas and substantial agreement on all points.

The following are to be accomplished during the conference:

1. To review all Factory Mutual and Underwriters Laboratories requirements listed in the specifications and resolve any questions or conflicts that may arise.
2. To establish trade-related job schedules, including the installation of roof mounted mechanical equipment.
3. To establish roofing schedule and work methods that will prevent roof damage.
4. Require that all roof penetrations and walls be in place prior to installing the roof.
5. To establish those areas on the job site that will be designated as work and storage areas for roofing operations.
6. To establish weather and working temperature conditions to which all parties must agree.
7. To establish acceptable methods of protecting the finished roof if any trades must travel across or work on or above any areas of the finished roof.

The Architect shall prepare a written report indicating actions taken and decisions made at this pre-roofing conference. This report shall be made a part of the project record and copies furnished the General Contractor, the Owner, the Building Commission, and the Building Commission Inspector."

PREPARATION OF SUBSTRATE:

Clean substrate of any projections and substances detrimental to shingling work.

Coordinate installation of shingles with flashing and other adjoining work to ensure proper sequencing.

INSTALLATION- BASE BID:

General: Comply with instructions and recommendations of shingle manufacturer in relationship to low slop roof application, except to extent more stringent requirements are indicated.

GENERAL:

1. Remove two (2) courses of existing shingles at edge of all eaves to existing decking.

UNDERLAYMENT:

1. Self-Adhered Underlayment:

- A. Install self-adhered underlayment at same areas where two (2) courses of existing shingles are removed.
2. Synthetic Underlayment:
 - A. Apply one (1) layer of synthetic underlayment horizontally over entire surface of existing shingles, lapping succeeding courses 2" minimum and fastening with sufficient nails (no staples) to hold in place until new shingle application.
 - B. Install saturated felt starter courses as per low slope application requirements lapped and cemented as indicated by the manufacturer. Selection and application of asphalt roofing and siding products published by the Asphalt Roofing Manufacturers' Association Copyright 1966 Revised 1974.

SHINGLES:

1. Install starter strip of roll roofing or shingles with tabs removed at same areas.
2. Fasten asphalt shingles to roof sheathing with nails per manufacturers nailing requirements to obtain required wind warranty under this specification section.
3. The application of the shingles will be by hand and the application pattern will be diagonally across the slope of the roof.
4. "Racking" of the shingles will not be permitted.
5. Pneumatic nail guns will NOT be permitted for installation of shingles.
6. Staples will NOT be permitted.
7. All valleys shall be "California Cut".

INSTALLATION - ALTERNATE 1:

GENERAL:

1. See Section 01000, Alternates.
2. Remove existing shingles to existing decking.

UNDERLAYMENT:

1. Synthetic Underlayment:
 - A. Apply one layer of synthetic underlayment horizontally over entire surface, lapping succeeding courses 2" minimum and fastening with sufficient nails (no staples) to hold in place until shingle application.
 - B. Install saturated felt starter courses as per low slope application requirements lapped and cemented as indicated by the manufacturer. Selection and application of asphalt roofing and siding products published by the Asphalt Roofing Manufacturers' Association Copyright 1966 Revised 1974.
2. Self-Adhered Underlayment:
 - A. Install at all Valleys, Ridges, Hips and Eaves.
 - B. Install underlayment centered to the center of the valley. Extend minimum of

- 1'-6" in each direction from middle of all valleys.
- C. Install upward from the edge of all eaves a total distance of 72".
 - D. Install on all ridges and hips a distance of 36" on each side of all ridge and hip lines.
 - E. Install 18" wide strip each side of expansion joint flange.

SHINGLES:

- 1. Install starter strip of roll roofing or shingles with tabs removed.
- 2. Fasten asphalt shingles to roof sheathing with nails per manufacturers nailing requirements to obtain required wind warranty under this specification section.
- 3. The **application** of the shingles will be **by hand** and the application pattern will be diagonally across the slope of the roof.
- 4. "Racking" of the shingles will not be permitted.
- 5. **Pneumatic nail guns** will **NOT** be **permitted** for installation of shingles.
- 6. Staples will NOT be permitted.
- 7. **All valleys shall be "California Cut"**.

END OF SECTION