November 6, 2024

ADDENDUM NUMBER ONE (1)

Project: 2024 Davis Hall Roof Replacement
Raymond Campus
Hinds Community College
(Community College Board)
HCC Bid #3302 DA: 24018

FROM: Dean Architecture, P.A.
661 Sunnybrook Road, Suite 140
Ridgeland, MS 39157
(601) 939-7717

The following additions, changes, clarifications and/or substitutions to the Project Drawings as indicated, are hereby made a part of the Contract Documents. Acknowledge receipt of this Addendum by inserting its number and date in the Proposal Form where indicated.

Clarifications:

Item #1: Attached is the list of attendees at the Pre-Bid Conference held on Tuesday, November 5, 2024 at 10:00 a.m. This is for informational purposes only.

Item #2: Contractor may use existing electrical outlet and power on penthouse walls and in penthouse mechanical room for construction purposes.

Item #3: Contractors option to use existing restrooms on unoccupied 5th floor of Davis Hall or provide temporary restroom facilities on roof or onsite for construction personal use.

Architectural Specifications:

Item #1: Section 008020- HCC Special Conditions as follows:

Delete Paragraph "P" – Construction Sign. This is not required on this project.

Item #2: Section 070150 – Preparation for Re-Roofing. Remove subparagraph 2.01 and replace with the following:

A. Refer to Section 075400 for additional information on components relating to this work:
   1. Removal and Replacement of the existing roofing system in preparation for a new roofing and insulation system. Removal of existing PVC membrane roof over ½" cover board over EPDM membrane and 2" EPS board insulation currently in place over structural concrete on metal decking. Removal of parapet wall membrane flashing including termination bar, copings, fascia's, gutters and downspouts at roof edges and parapet walls.

Item #3: Section 075400 Thermoplastic Membrane Roofing:

Remove existing Section 075400 and replace with revised Section 075400 attached. Changed roof system to be a fully adhered system with vapor barrier over existing concrete roof deck.

Item #4: Section 077100 Roof Specialties: Paragraph 2.02.

Add the following to the end of paragraph 2.02 Components.

4. Roof Edge Material: Formed aluminum Sheet, 0.050 inch (1.3mm) thick, minimum.
5. Coping Material: Formed aluminum Sheet, 0.063 inch (1.6mm) thick, minimum.

Refer to Drawings:

Item #1: Sheet A101 – Roof Plan / Notes – Construction Note 2 – remove existing note and replace as follows:

2. Prep / patch existing concrete surfaces and install specified fully adhered roof system: Single ply membrane over ½" cover board over 2 layers 1 ½" polyiso insulation over fully adhered vapor retarder on top of existing sloped concrete deck. All edger metals, gutters, downspouts, flashings termination bars/ anchors to be removed / replaced / installed per manufacturers recommendations.

END OF ADDENDUM NUMBER ONE (1)
Dean Architecture, P.A.

Kenneth A. Oubre, AIA, Principal

REGISTERED ARCHITECT
Kenneth Allen Oubre
3850
JACKSON, MS
11-6-2024
STATE OF MISSISSIPPI

PLEASE ATTACH THIS ADDENDUM TO THE INSIDE FRONT COVER OF EACH SET OF SPECIFICATIONS.

PRE-BID MEETING

MEETING ATTENDEES

PROJECT NAME	OWNER REFERENCE NUMBER	DA PN	DATE
Davis Hall Roof Replacement	Hinds Bid# 3302	24018	Nov. 5, 2024

Name/Title	Entity	Telephone	E-Mail	Prime Bidder
Kenneth Oubre	Architect	6019397717	koubre@deandean.com	
CHUCK SMITH	MID-WESTERN ROOFING	601-260-0123	CS51460@aol.com	✓
Christian Salvador	Roofing Solutions	601-317-8297	estimating@roofingsolutions.com	✓
David Chiasson	Eskola Roofing	985-335-3131	dchiasson@eskolaroofing.com	✓
Blake Montpelier	Independent Roofing	601-574-8480	Blake@roofing.ms	✓
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Tammy Wood	HCC	(601) 857-3836	tammy.wood@hinds.edu	
CHRIS CRISWELL	ECMC	601-624-0390	chris@ecmalone.com	✓
LEE DODD	HCC			
BILL CAMPBELL	HCC			
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SECTION 075400

THERMOPLASTIC MEMBRANE ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fully Adhered system with thermoplastic roofing membrane (60 Mil) or Polyvinyl-Chloride membrane (50 Mil)

B. Fully Adhered Membrane Vapor Barrier over existing sloped concrete deck.

C. Insulation, flat.

D. Densdeck Prime Roof Cover boards.

E. Roofing stack boots as required by manufacturer of roofing membrane.

F. Roof Drain Strainers - (as required)

G. Roof Curb Extensions as required to provide required 8" curb height minimum.

1.02 REFERENCE STANDARDS

A. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2013.

B. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2016.

C. ASTM D4434/D4434M - Standard Specification for Poly(Vinyl Chloride) Sheet Roofing; 2015.

D. ASTM D6878/D6878M - Standard Specification for Thermoplastic Polyolefin Based Sheet Roofing; 2013.

E. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials; 2014.

F. FM (AG) - FM Approval Guide; current edition.

G. FM DS 1-28 - Wind Design; 2007.

H. NRCA ML104 - The NRCA Roofing and Waterproofing Manual; National Roofing Contractors Association; Fifth Edition, with interim updates.

I. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.

J. UL (FRD) - Fire Resistance Directory; current edition.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene one week before starting work of this section.
   1. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.04 SUBMITTALS

A. See Section 013323 - Shop Drawings, Product Data and Samples - for submittal procedures.

B. Product Data: Provide data indicating membrane materials, flashing materials, insulation, and fasteners.

C. Specimen Warranty: For approval.

D. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and mechanical fastener layout.

E. Installer's qualification data.

F. Samples for Verification: Submit two samples 12 X 12 inches in size illustrating colored coating.

G. Manufacturer's Installation Instructions: Indicate membrane seaming precautions and perimeter conditions requiring special attention.

H. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

I. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, and supplementary instructions given.

J. Warranty:
   1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
   2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.

K. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Perform work in accordance with NRCA Roofing and Waterproofing Manual.

B. Installer Qualifications: Company specializing in performing the work of this section:
   1. With minimum 5 years documented experience.
   2. Approved by membrane manufacturer.

1.06 PRE-INSTALLATION MEETING

A. Convene one week before starting work of this section.

B. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.

B. Store products in weather protected environment, clear of ground and moisture.

C. Ensure storage and staging of materials does not exceed static and dynamic load-bearing capacities of roof decking.

D. Protect foam insulation from direct exposure to sunlight.

1.08 FIELD CONDITIONS

A. Coordinate the work with installation of associated flashings and counterflashings installed by other sections as the work of this section proceeds.

B. Do not apply roofing membrane during unsuitable weather.

C. Do not apply roofing membrane when environmental conditions are outside the ranges recommended by manufacturer.

D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

F. Schedule applications so that no partially completed sections of roof are left exposed at end of workday.

1.09 WARRANTY

A. See Section 017700 - Contract Closeout - for additional warranty requirements.

B. The Contractor shall agree to keep the roof free of leaks within a two year period after Date of Substantial Completion.

C. System Warranty: Provide 20 year no dollar limit (NDL) Total System Warranty. Manufacturer's material and labor warranty to cover water tightness and failure to prevent penetration of water over entire system.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. **Roof Membrane - Option One** - Thermoplastic Polyolefin Membrane Materials:
   1. Johns Manville; [JM TPO 60 mil]: www.jm.com/#sle.
   2. Carlisle SynTec: www.carlisle-syntec.com.
   3. GAF; EverGuard TPO 60 mil: www.gaf.com/#sle.
   4. GenFlex Roofing Systems, LLC: www.genflex.com/#sle.
   5. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

B. **Roof Membrane - Option Two** -PVC Membrane Materials:
   1. GAF; EverGuard PVC 50 mil: www.gaf.com/#sle.
   2. Duro-Last Roofing, Inc.: www.duro-last.com.
   3. Sika Corporation 96 Roofing; Sarnafil PVC: Extensions/#sle.
   4. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

C. Insulation: Polyiso insulation
   1. By roofing manufacturer.

2.02 ROOFING

A. Membrane Roofing: One ply membrane, fully adhered, over vapor retarder and insulation. and Densdeck Prime roofing boards.

B. Roofing Assembly Requirements:
   1. Factory Mutual Classification: Class I and windstorm resistance of I-90, in accordance with FM DS 1-28.
   2. Insulation Thermal Resistance (R-Value): 5 per inch, minimum; provide insulation of thickness required to reach a maximum thickness of 3 inches. Two layers of insulation required to meet Manufacturers warranty requirements. At areas called out on plans.

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

A. Membrane:
   1. **Option One - TPO**: Thermoplastic polyolefin (TPO) complying with ASTM D6878/D6878M, sheet contains reinforcing fabrics or scrims.
      a. Thickness: 60 mil, 0.060 inch, nominal.
      b. Color: White.
      c. Provide 24"x 24" walk pads as noted in drawings.
   2. **Option Two - PVC**: Polyvinyl chloride (PVC) complying with ASTM D4434/D4434M, Type II, sheet contains reinforcing fibers or reinforcing fabrics.
      a. Thickness: 50 mil, 0.050 inch, minimum.
      b. Color: White.
      c. Provide 24"x 24" walk pads as noted in drawings.

B. Seaming Materials: As recommended by membrane manufacturer.

C. Membrane Fastening: Fully adhered membrane over 1/2" Densdeck Prime roofing boards over 2 layers 1 1/2" polyiso roof insulation over self adhereing vapor barrier over existing sloped concrete deck.

D. Vapor Barrier: Material approved by roof manufacturer; compatible with roofing and insulation materials.
   1. Products equal to:
      a. GAF; Self-Adhered Vapor Retarder XL - 31 Mils: www.gaf.com/#sle.
      b. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

E. Flexible Flashing Material: Same material as membrane.

2.04 COVER BOARDS

A. Cover Boards: panels complying with ASTM C1177/C1177M .
   1. Thickness: 1/2 inch.

2. Manufacturers:
   a. Georgia-Pacific; DensDeck Prime with EONIC Technology: www.densdeck.com/#sle.
   b. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

2.05 INSULATION

A. Polyisocyanurate Board Insulation: Rigid cellular foam, complying with ASTM C1289, Type II, Class 1, cellulose felt or glass fiber mat both faces; Grade 2 and with the following characteristics:
   1. Compressive Strength: 20 psi
   2. Foam insulation must satisfactorily pass FM4450 or UL 1256.
   3. Board Size: 48 x 96 inch.
   4. Thermal Resistance: R-value of 5 Minimum per inch.
   5. Board Edges: Square.
   6. Board thickness: 3" - installed in two layers.
   7. Roof Slope: existing sloped concrete decking. **Note: GC to modify / patch existing concrete deck or layers of new insulation boards as required to provide positive drainage to roof drains and avoid ponding water on finished roof surface.**
   8. Fully Adhered over cover board ...installation per manufacturers instructions.
   9. Manufacturers: same as TPO roofing manufacturer.

2.06 ACCESSORIES

A. Stack Boots: Prefabricated flexible boot and collar for pipe stacks through membrane; same material as membrane.

B. Insulation Joint Tape: Glass fiber reinforced type as recommended by insulation manufacturer, compatible with roofing materials; 6 inches wide; self adhering.

C. Membrane Adhesive: as recommended by membrane manufacturer.

D. Downspout splashblocks - as recommended by membrane roofing manufacturer.

E. Sealants: As recommended by membrane manufacturer.

F. Liquid Flashing: Standard of Quality, Firestone Ultraflash 1 part liquid flashing.

G. Treated Wood Roof Curb Extensions- Provide at existing roof vent / fan locations to provide a minimum of 8" high curbs.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Perform work in accordance with NRCA Roofing and Waterproofing Manual and manufacturer's instructions.

B. Do not apply roofing membrane during unsuitable weather.

C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.

D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

3.02 EXAMINATION

A. Verify that surfaces and site conditions are ready to receive work.

B. Verify deck is supported and secure.

C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.

D. Verify deck surfaces are dry and free of snow or ice.

E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.03 INSULATION - UNDER MEMBRANE

A. Install vapor retarder to deck surface with adhesive in accordance with manufacturer's instructions.
   1. Extend vapor retarder under cant strips and blocking to deck edge.
   2. Install flexible flashing from vapor retarder to air seal material of wall construction, lap and seal to provide continuity of the air barrier plane.

B. Ensure vapor retarder is clean and dry, continuous, and ready for application of insulation.

C. Attachment of Insulation: Embed insulation in adhesive in full contact, in accordance with roofing and insulation manufacturers' instructions.

D. Cover Boards: Fully adhere cover boards in accordance with roofing manufacturer's instructions and FM (AG) Factory Mutual requirements.

E. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.

F. Tape joints of insulation in accordance with roofing and insulation manufacturers' instructions.

G. Do not apply more insulation than can be covered with membrane in same day.

3.04 MEMBRANE APPLICATION

A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.

B. Shingle joints on sloped substrate in direction of drainage.

C. Fully Adhered Application: Apply adhesive to substrate at rate recommended by the manufacturer to suit application . Fully embed membrane in adhesive except in areas directly over or within 3 inches of expansion joints. Fully adhere one roll before proceeding to adjacent rolls.

D. Overlap edges and ends and seal seams by heat welding, minimum 3 inches. Seal permanently waterproof.

E. At intersections with vertical surfaces:
   1. Extend membrane over cant strips and up a minimum of 4 inches onto vertical surfaces.
   2. Fully adhere flexible flashing over membrane and up to nailing strips.

F. Around roof penetrations, seal flanges and flashings with flexible flashing.

G. Coordinate installation of roof drains and related flashings.

3.05 FIELD QUALITY CONTROL

A. Require site attendance of roofing materials manufacturer's representative to conduct two (2) in-progress inspections (50% and 99%) and provide written confirmation reports during installation of work. Final inspection to back check final punch list items to verify total compliance with warranty requirements.

B. One inspection upon completed installation shall be made by the manufacturer's representative in the company of the Architect and Owner's representative prior to substantial completion.
   1. Roof surfaces that allow areas of standing or ponding water are not permitted and will be rejected.

3.06 CLEANING

A. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.

B. Repair or replace defaced or damaged finishes caused by work of this section.

3.07 PROTECTION

A. Protect installed roofing and flashings from construction operations.

B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION