



Randolph County Historic Courthouse Museum Renovation & Elevator Addition: Addendum #2

DATE: June 23, 2023

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ADDENDUM #2:

TO: All invited bidders which have received the electronic drawing set for the Randolph County Historic Courthouse Museum Renovation & Elevator Addition Project.

This Addendum No. 2 forms a part of the Contract Documents and modifies the original documents dated June 1, 2023, as noted below. Acknowledge receipt of this addendum in the space provided on the Bid Form.

This addendum consists of (7) seven pages @ 8.5" x 11" (total 7 sheets).

General:

- A. The sign-in sheet from the Pre-Bid Meeting was mistakenly left out of the meeting minutes and is now included in this Addendum. Bidders are reminded that the Pre-Bid Conference was mandatory for Pre-Qualified General Contractors only.

Specification Sections:

- A. Section 071326 Self Adhering Sheet Waterproofing is issued within this Addendum.

Clarifications/Questions and Answers:

1. Question: Can we use Resolute elevator?
 - o Response: Modular elevators/elevator shafts shall not be used on this project. The elevator shaft and structure for the elevator tower is load bearing masonry.
2. Question: Can we have the subs who quoted on the previous bid?
 - o Response: Yes, please see below for a list of subcontractors that were utilized in the previous bid.
Plumbing: T&D Plumbing, Dixon Plumbing, Neal & Howard
Mechanical: Sensible Air Syst., Matthews Mechanical
Electrical: Electrical Tech, Classic Electric
3. Question: Section 07 13 26 Self Adhering Sheet Waterproofing appears to be missing from the specifications. Is this intentional?
 - o Response: Section 071326 Self Adhering Sheet Waterproofing is included in this addendum and shall be used at elevator tower foundations as detailed.
4. Question: There is a unit price for brick repair – is that meant to include repair to contiguous bricks or bricks that are remote from each other?
 - o Response: Contiguous bricks



5. Question: What is the extent of plaster repair?
 - o Response: The only plaster repair that shall be included in the project is Quantity Allowance #1 for 100 SF of Plaster Repair/Replacement.

END OF ADDENDUM #2

SECTION 071326 - SELF-ADHERING SHEET WATERPROOFING**PART 1 — GENERAL****1.01 RELATED DOCUMENTS**

- A. All the Contract Documents, including General and Supplementary Conditions and Division 1 General Requirements, apply to the work of this section.

1.02 SUMMARY

- A. The work of this section includes, but is not limited to, the following:
 - 1. Rubberized asphalt sheet membrane waterproofing system
 - 2. Prefabricated drainage composite board

- B. Related Sections: Other specification sections which directly relate to the work of this section include, but are not limited to, the following:
 - 1. Section 033000 – Cast-In-Place Concrete
 - 2. Section 042000 – Unit Masonry
 - 3. Section 076200 - Sheet Metal Flashing and Trim
 - 4. Section 076526 – Self-Adhering Sheet Flashing
 - 5. Section 079010 – Joint Sealants

1.03 REFERENCE STANDARDS

- A. The following standards and publications are applicable to the extent referenced in the text.
- B. American Society for Testing and Materials (ASTM)
 - C 836 Standard Specification for High Solids, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course
 - D 412 Standard Test Methods for Rubber Properties in Tension
 - D 570 Standard Test Method for Water Absorption of Plastics
 - D 882 Standard Test Methods for Tensile Properties of Thin Plastic Sheeting
 - D 903 Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
 - D 1876 Standard Test Method for Peel Release of Adhesives (T-Peel)
 - D 1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
 - D 3767 Standard Practice for Rubber - Measurements of Dimensions
 - D 5385 Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes
 - E 96 Standard Test Methods for Water Vapor Transmission of Materials

E 154 Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, installation instructions, use limitations and recommendations. Include certification of data indicating VOC (Volatile Organic Compound) content of all components of waterproofing system.
- B. Samples: Submit representative samples of the following for approval:
 - 1. Sheet membrane
 - 2. Prefabricated drainage composite board

1.05 QUALITY ASSURANCE

- A. Manufacturer: Sheet membrane waterproofing system shall be manufactured and marketed by a firm with a minimum of 20 years experience in the production and sales of self-adhesive sheet membrane waterproofing. Manufacturers proposed for use but not named in these specifications shall submit evidence of ability to meet all requirements specified and include a list of projects of similar design and complexity completed within the past 5 years.
- B. Installer: A firm which has at least 3 years experience in work of the type required by this section.
- C. Materials: For each type of material required for the work of this section, provide primary materials which are the products of one manufacturer.
- D. Pre-Installation Conference: A pre-installation conference shall be held prior to commencement of field operations to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work. Agenda for meeting shall include review of special details and flashing.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials and products in labeled packages. Store and handle in strict compliance with manufacturer's instructions, recommendations and material safety data sheets. Protect from damage from sunlight, weather, excessive temperatures and construction operations. Remove damaged material from the site and dispose of in accordance with applicable regulations.
 - 1. Do not double-stack pallets of membrane on the job site. Provide cover on top and all sides, allowing for adequate ventilation.
 - 2. Protect mastic and adhesive from moisture and potential sources of ignition.
 - 3. Store drainage composite or protection board flat and off the ground. Provide cover on top and all sides.
 - 4. Protect surface conditioner from freezing.
- B. Sequence deliveries to avoid delays, but minimize on-site storage.

1.07 PROJECT CONDITIONS

- A. Perform work only when existing and forecasted weather conditions are within the limits established by the manufacturer of the materials and products used.
- B. Proceed with installation only when substrate construction and preparation work is complete and in condition to receive sheet membrane waterproofing.

1.08 WARRANTY

- A. Sheet Membrane Waterproofing: Provide written 5 year material warranty issued by the membrane manufacturer upon completion of the work.

PART 2 — PRODUCTS

2.01 MATERIALS

- A. Sheet Membrane Waterproofing System: a self-adhesive, cold-applied composite sheet consisting of a thickness of .060 inches of rubberized asphalt and cross-laminated, high density polyethylene film specially formulated for use with water-based surface conditioner. Provide rubberized asphalt membrane covered with a release sheet which is removed during installation. No special adhesive or heat shall be required to form laps.

B. Manufacturers:

Subject to compliance with requirements, available manufacturers and products that may be incorporated into the Work include, but are not limited to:

1. American Hydrotech - VM75
2. Carlisle - CW MiraDRI 860/861
3. W.R.Grace - Bituthene 3000
4. Henry Co. - WP200
5. W.R. Meadows Inc. – Mel-Rol Rolled, Self-Adhering Waterproofing Membrane.

C. Sheet Membrane Waterproofing

PHYSICAL PROPERTIES FOR MEMBRANE:

Property	Test Method	Typical Value
Color		Dark gray-black
Thickness	ASTM D 3767 Method A	1.5 mm (0.060 in.) nominal
Flexibility, 180° bend over 25 mm (1 in.) mandrel at -43°C (-45°F)	ASTM D 1970	Unaffected
Tensile Strength, Membrane Die C	ASTM D 412 Modified ¹	2240 kPa (325 lbs/in. ²) minimum
Tensile Strength, Film	ASTM D 882 Modified ¹	34.5 MPa (5,000 lbs/in. ²)

		minimum
Elongation, Ultimate Failure of Rubberized Asphalt	ASTM D 412 Modified ¹	300% minimum
Crack Cycling at -32°C (-25°F), 100 Cycles	ASTM C 836	Unaffected
Lap Adhesion at Minimum Application Temperature	ASTM D 1876 Modified ²	880 N/m (5 lbs/in.)
Peel Strength	ASTM D 903 Modified ³	1576 N/m (9 lbs/in.)
Puncture Resistance, Membrane	ASTM E 154	222 N (50 lbs) minimum
Resistance to Hydrostatic Head	ASTM D 5385	70 m (231 ft) of water
Permeance	ASTM E 96, Section 12 – Water Method	2.9 ng/m ² sPa (0.05 perms) maximum
Water Absorption	ASTM D 570	0.1% maximum

D. Miscellaneous Materials:

1. Surface conditioner, mastic, liquid membrane, tape and accessories specified or acceptable to manufacturer of sheet membrane waterproofing.
2. Surface Primer as required by the Manufacturer to address wet or uneven surface conditions of the below grade foundations onto which the sheet waterproofing is to be adhered. Provide primer material information within the initial submittal. On-site review by the Architect to be convened by the Contractor when the foundation walls are exposed to determine conditions. Final installation must meet Manufacturer’s specified warranty. See 3.02 below for additional information.

PART 3 — EXECUTION

3.01 EXAMINATION

- A. The installer shall examine conditions of substrates and other conditions under which this work is to be performed and notify the contractor, in writing, of circumstances detrimental to the proper completion of the work. Do not proceed with work until unsatisfactory conditions are corrected.

3.02 PREPARATION OF SUBSTRATES

- A. Refer to manufacturer’s literature for requirements for preparation of substrates. Surfaces shall be structurally sound and free of voids, spalled areas, loose aggregate and sharp protrusions. Remove contaminants such as grease, oil and wax from exposed surfaces. Remove dust, dirt, loose stone and debris. Use repair materials and methods which are acceptable to manufacturer of sheet membrane waterproofing.
- B. Cast-In-Place Concrete Substrates:

1. Do not proceed with installation until concrete has properly cured and dried (minimum 7 days for normal structural concrete and minimum 14 days for lightweight structural concrete).
 2. Fill form tie rod holes with concrete and finish flush with surrounding surface.
 3. Repair bugholes over 13 mm (0.5 in.) in length and 6 mm (0.25 in.) deep and finish flush with surrounding surface.
 4. Remove scaling to sound, unaffected concrete and repair exposed area.
 5. Grind irregular construction joints to suitable flush surface.
- C. Masonry Substrates: Apply waterproofing over concrete block and brick with smooth trowel-cut mortar joints or parge coat.
- D. Address wet conditions in accordance with the Manufacturer's printed recommendations and Warranty. See 2.01 Paragraph E.2 above for additional information.
- E. Related Materials: Treat joints and install flashing as recommended by waterproofing manufacturer.

3.03 INSTALLATION

- A. Refer to manufacturer's literature for recommendations on installation, including but not limited to, the following:
1. Apply surface conditioner at rate recommended by manufacturer. Recoat areas not waterproofed if contaminated by dust. Mask and protect adjoining exposed finish surfaces to protect those surfaces from excessive application of surface conditioner.
 2. Delay application of membrane until surface conditioner is completely dry. Dry time will vary with weather conditions.
 3. Seal daily terminations with troweled bead of mastic.
 4. Apply protection board and related materials in accordance with manufacturer's recommendations.

3.04 CLEANING AND PROTECTION

- A. Remove any masking materials after installation. Clean any stains on materials which would be exposed in the completed work.
- B. Protect completed membrane waterproofing from subsequent construction activities as recommended by manufacturer.

END OF SECTION 07 13 26