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**Addendum Number:** 03

**Addendum Issue Date:** February 5, 2021

**Owner:** Crawford Memorial Hospital

**Project Name:** CMH Ortho Clinic Addition and Renovation

**Project Number:** 0200707.00

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**Containing:** 4 Pages; 0 Drawings; 1 Specification

*This addendum amends the drawings and specifications of the above reference project and is hereby incorporated into the contract documents as part thereof. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. **FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.***

**General:**

1. CLARIFY toilet accessories such as liquid soap dispenser, and paper towel dispenser will be OFOI, and the grab bar will be OFCI, as shown in the toilet accessory schedule.

**Specifications:**

SECTION 23 0719 – HVAC Piping Insulation

- REVISE part 2.2 from Elastomeric insulation to Glass Fiber, flexible insulation. See the attached reissued spec section.

**END OF ADDENDUM**

**Issued By:**

FARNSWORTH GROUP, INC.

Annapoorna Halepatali  
Architectural Designer III

**Attachments:**

*Specifications: 23 0719*

## SECTION 23 0719 - HVAC PIPING INSULATION

### PART 1 GENERAL

#### 1.1. SECTION INCLUDES

- A. Piping insulation.
- B. Jackets and accessories.

#### 1.2. RELATED REQUIREMENTS

- A. Section 07 8400 - Firestopping.

#### 1.3. REFERENCE STANDARDS

- A. ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus; 2017.
- B. ASTM C553 - Standard Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications; 2013.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018b.
- D. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials; 2016.
- E. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Current Edition, Including All Revisions.

#### 1.4. SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide product description, thermal characteristics, list of materials and thickness for each service, and locations.

#### 1.5. DELIVERY, STORAGE, AND HANDLING

- A. Accept materials on site, labeled with manufacturer's identification, product density, and thickness.

### PART 2 PRODUCTS

#### 2.1. REGULATORY REQUIREMENTS

- A. Surface Burning Characteristics: Flame spread index/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84 or UL 723.

#### 2.2. GLASS FIBER, FLEXIBLE (ADD 03)

- A. Manufacturer:
  - 1. JP Lamborn Co; Thermal Sleeve MT: [www.jpflex.com](http://www.jpflex.com).
  - 2. Owens Corning.
  - 3. K-Flex.
- B. Insulation: ASTM C553; flexible, noncombustible blanket.
  - 1. K value: 0.36 at 75 degrees F, when tested in accordance with ASTM C518.
  - 2. Maximum Service Temperature: 1200 degrees F.
  - 3. Maximum Water Vapor Absorption: 5.0 percent by weight.
- C. Vapor Barrier Jacket:
  - 1. Kraft paper with glass fiber yarn and bonded to aluminized film.
  - 2. Moisture Vapor Permeability: 0.02 perm inch, when tested in accordance with ASTM E96/E96M.
  - 3. Secure with pressure sensitive tape.

### PART 3 EXECUTION

#### 3.1. EXAMINATION

- A. Verify that piping has been tested before applying insulation materials.
- B. Verify that surfaces are clean and dry, with foreign material removed.

#### 3.2. INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install in accordance with NAIMA National Insulation Standards.
- C. Exposed Piping: Locate insulation and cover seams in least visible locations.
- D. Insulated pipes conveying fluids below ambient temperature; insulate entire system including fittings, valves, unions, flanges, strainers, flexible connections, and expansion joints.
- E. For hot piping conveying fluids 140 degrees F or less, do not insulate flanges and unions at equipment, but bevel and seal ends of insulation.
- F. For hot piping conveying fluids over 140 degrees F, insulate flanges and unions at equipment.
- G. Inserts and Shields:
  - 1. Application: Piping 1-1/2 inches diameter or larger.
  - 2. Shields: Galvanized steel between pipe hangers or pipe hanger rolls and inserts.
  - 3. Insert location: Between support shield and piping and under the finish jacket.
  - 4. Insert Configuration: Minimum 6 inches long, of same thickness and contour as adjoining insulation; may be factory fabricated.
  - 5. Insert Material: Hydrous calcium silicate insulation or other heavy density insulating material suitable for the planned temperature range.
- H. Continue insulation through walls, sleeves, pipe hangers, and other pipe penetrations. Finish at supports, protrusions, and interruptions. At fire separations, refer to Section 07 8400.
- I. Installation of Flexible Elastomeric Insulation:
  - 1. Seal longitudinal seams and end joints with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
  - 2. Insulation Installation on Pipe Fittings and Elbows:
    - a. Install mitered sections of pipe insulation.
    - b. Secure insulation materials and seal seams with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
  - 3. Insulation Installation on Valves and Pipe Specialties:
    - a. Install preformed valve covers manufactured of same material as pipe insulation when available.
    - b. When preformed valve covers are not available; install cut sections of pipe and sheet insulation to valve body. Arrange insulation to permit access to packing and to allow valve operation without disturbing insulation.
    - c. Install insulation to flanges as specified for flange insulation application.
    - d. Secure insulation to valves and specialties and seal seams with manufacturer's recommended adhesive to eliminate openings that allow passage of air to surface being insulated.

#### 3.3. SCHEDULE

- A. Heating and Cooling Systems:

1. Heating Water Supply and Return: 1.5" thick elastomeric insulation.

**END OF SECTION 23 0719**