

# Addendum Summary

23168.0000, GREENVILLE ISD GMS AND LP WATERS PORTABLES, TRAVIS RENOVATION,  
AND GHS BOILER REPLACEMENT

**Date Issued: 08/16/2023.**

To: Greenville ISD  
4004 Moulton St,  
Greenville, TX, 75401



Addendum: 01

Prepared By: Lance Melton

This Addendum contains changes to the requirements of the contract drawings and/or project manual. Such changes shall be incorporated into the contract documents and shall apply to the work with the same meaning and force as if they had been included in the original documents. Wherever this Addendum modifies a portion of the paragraph of project manual or any portion of the drawing, the remainder of the paragraph of drawing affected shall remain in force.

The conditions of the basic project manual shall govern all work described in this Addendum. Wherever the conditions of work and the quality of quantity of materials or workmanship are not fully described in this Addendum, the conditions of work, etc. included in the basic project manual for similar items of work shall apply to the work described in this Addendum.

The "Conditions of the Contract" apply to all work described in this Addendum. The following changes shall be and are hereby made:

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## Summary of Revisions

### SPECIFICATION REVISIONS:

#### **ITEM NO. 1.00 TABLE OF CONTENTS**

- Replace the existing Table of Contents with the attached to reflect the following changes:
- Add the following sections to the Table of Contents:
  - 05 40 00 COLD-FORMED METAL FRAMING
  - 07 21 00 THERMAL INSULATION

#### **ITEM NO. 1.01 SECTION 05 40 00 COLD-FORMED METAL FRAMING**

- Add section in its entirety as attached.

**ITEM NO. 1.02 SECTION 07 21 00 THERMAL INSULATION**

- Add section in its entirety as attached.

**PRE-PROPOSAL SIGN IN SHEET:**

**ITEM NO. 1.03 PRE-PROPOSAL SIGN IN SHEET**

- Add sheet in its entirety as attached.

End of Addendum Summary

CC: Gunter ISD

Attachments:

TOC, 05 40 00 07 21 00, Pre-Proposal Sign In Sheet

*Please review this information and advise writer of any corrections, misunderstandings or additions within 3 business day*

**DOCUMENT 00 01 10**

**ISSUED DOCUMENTS**

Issue for Construction..... 07/27/23  
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## SECTION 05 40 00

### COLD-FORMED METAL FRAMING

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Exterior nonload bearing wall framing.

##### 1.2 ACTION SUBMITTALS

- A. Product Data: Technical data for cold formed steel framing components, including framing, clips, track, anchors, and gaskets, and to verify section properties of studs shown on the drawings and instructions for securing studs to tracks and other framing connections and for accessories including factory applied primers.
- B. Shop Drawings: Submit detailed stud layout, spacing, size, thickness, and types of cold formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners, bracing and welds and related accessories.
  - 1. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
- C. Delegated Design Submittal: Submit For cold formed steel framing to verify compliance with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

##### 1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: Submit data for testing agency.
- B. Product Certificates: Submit for each type of code compliance certification for studs and tracks.

##### 1.4 QUALITY ASSURANCE

- A. Regulatory Requirements:
  - 1. Comply with the IBC as adopted and amended by the AHJ including special inspections.
    - a. Code Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified in accordance with the product certification program of the Certified Steel Stud Association, the Steel Framing Industry Association, or the Steel Stud Manufacturers Association.

- B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in the State of Project location and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of cold formed metal framing similar to those indicated in material, design, and extent.
  - 1. Engineering Responsibility: Preparation of Shop Drawings, design calculations, and structural data.
- C. Testing Agency Qualifications: Qualified in accordance with ASTM E 329 for testing indicated.
- D. Preinstallation Conference: Conduct conference at the site.

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Protect cold formed steel framing members from weather exposure and damage. Deliver to site in bundles, fully identified with name, type and grade. Store off ground in dry, ventilated space or protect with suitable, venting waterproof coverings.
- B. Inspect cold formed steel framing upon delivery for corrosion and damage to temporary primer. Remove corrosion and repair temporary primer.
- C. Protect cold formed steel framing from corrosion, moisture staining, deformation, and other damage during delivery, storage, and handling.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer to design cold formed steel framing complying with requirements.
- B. Structural Performance: Provide cold formed steel framing capable of withstanding design loads within limits and under conditions indicated.
  - 1. Design Loads: Indicated on Drawings.
  - 2. Deflection Limits: Design framing systems to withstand design loads without deflections greater than the following:
    - a. Exterior Nonload Bearing Framing: Horizontal deflection of 1/240 of the wall height.
  - 3. Design framing systems to provide for movement of framing members located outside the insulated building envelope without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature change of 120 degrees F (67 degrees C).



4. Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live load deflection of primary building structure as follows:
    - a. Upward and downward movement of 1/2 inch (13 mm).
  5. Design exterior nonload bearing wall framing to accommodate horizontal deflection without regard for contribution of sheathing materials.
- C. Cold Formed Steel Framing Standards: Unless more stringent requirements are indicated, framing shall comply with AISI S100, AISI S200:
1. Wall Studs: AISI S211.
  2. Headers: AISI S212.
  3. Lateral Design: AISI S213.
- D. Fire Resistance Ratings: Comply with ASTM E 119; testing by UL. Identify products with appropriate markings.
1. Indicate design designations from the UL Fire Resistance Directory.
- E. AISI Specifications and Standards: Comply with AISI North American Specification for the Design of Cold Formed Steel Structural Members and Standard for Cold Formed Steel Framing - General Provisions.
1. Comply with AISI S100 and AISI S200 unless more stringent requirements are indicated.

## 2.2 COLD FORMED STEEL FRAMING MATERIALS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Allied Studco.
  2. AllSteel & Gypsum Products, Inc.
  3. CEMCO; California Expanded Metal Products Co.
  4. ClarkDietrich Building Systems.
  5. Formetal Co. Inc. (The).
  6. MarinoWARE.
  7. Quail Run Building Materials, Inc.
  8. SCAFCO Corporation.
  9. Southeastern Stud & Components, Inc.
  10. Steel Network, Inc. (The).
  11. United Steel Manufacturing.
- B. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating designation:
1. Grade: Required by structural performance.
  2. Coating: G60 (Z180), A60 (ZF180), AZ50 (AZM150), or GF30 (ZGF90).

- C. Framing Materials: Fabricate steel framing accessories from ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated steel sheet, of same grade and coating designation used for framing members.
1. Provide accessories in standard thickness and configuration, unless otherwise indicated:
    - a. Supplementary framing.
    - b. Bracing, bridging, and solid blocking.
    - c. Web stiffeners.
    - d. Anchor clips.
    - e. End clips.
    - f. Foundation clips.
    - g. Gusset plates.
    - h. Stud kickers and knee braces.
    - i. Joist hangers and end closures.
    - j. Hole reinforcing plates.
    - k. Backer plates.
- D. Anchors, Clips, and Fasteners:
1. Steel Shapes and Clips: ASTM A 36/A 36M, zinc coated by hot dip process in accordance with ASTM A 123/A 123M.
  2. Anchor Bolts: ASTM F 1554, Grade 36, threaded carbon steel headless, hooked bolts, carbon steel nuts, and flat, hardened steel washers; zinc coated by mechanically deposition in accordance with ASTM B 695, Class 50.
  3. Post Installed Anchors: Fastener systems with bolts of same basic metal as fastened metal, if visible, unless otherwise indicated; with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC01 or ICC-ES AC193 as appropriate for the substrate.
    - a. Uses: Securing cold formed steel framing to structure.
    - b. Type: Torque controlled expansion anchor.
    - c. Material for Interior Locations: Carbon steel components zinc plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5, unless otherwise indicated.
    - d. Material for Exterior or Interior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 (A1) stainless steel bolts, ASTM F 593 (ASTM F 738M), and nuts, ASTM F 594 (ASTM F 836M).
  4. Power Actuated Anchors: Fastener systems with working capacity greater than or equal to the design load, in accordance with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.
  5. Mechanical Fasteners: ASTM C 1513, corrosion resistant coated, self-drilling, self-tapping, steel drill screws.
    - a. Head Type: Low profile head beneath sheathing.
  6. Welding Electrodes: Comply with AWS standards.

## E. Miscellaneous Materials:

1. Galvanizing Repair Paint: High zinc dust content galvanizing repair paint ASTM A 780/A 780M or SSPC-Paint 20.
2. Nonmetallic, Nonshrink Grout: Factory packaged, nonmetallic, noncorrosive, nonstaining grout, complying with ASTM C 1107/C 1107M, and with a fluid consistency and 30 minute working time.
3. Shims: Load bearing, high density, multimonomer, nonleaching plastic; or cold formed steel of same grade and metallic coating as framing members supported by shims.
4. Sealer Gaskets: Closed cell neoprene foam, 1/4 inch (6 mm) thick, selected from widths to match width of bottom track or rim track members as necessary.

- F. Sill Sealer Gasket: Closed-cell neoprene foam, 1/4 inch (6 mm) thick, selected from manufacturer's standard widths to match width of bottom track or rim track members as required.

## 2.3 EXTERIOR NONLOAD BEARING WALL FRAMING

- A. Steel Studs: C shaped steel studs, of web depths indicated, punched, with stiffened flanges:

1. Minimum Base Metal Thickness: 0.0428 inch (1.09 mm).
2. Flange Width: 1-5/8 inches (41 mm).

- B. Steel Track: U shaped steel track, of web depths indicated, unpunched, with unstiffened flanges:

1. Minimum Base Metal Thickness: 0.0428 inch (1.09 mm).
2. Flange Width: 1-1/4 inches (32 mm).

- C. Drift Clips: Bypass or head clips, capable of isolating wall stud from upward and downward vertical displacement and lateral drift of primary structure through positive mechanical attachment to stud web and structure.

## 2.4 FABRICATION

- A. Fabricate cold formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened, in accordance with referenced AISI specifications and standards, manufacturer's written instructions, and requirements in this Section.

1. Fabricate framing assemblies using jigs or templates.
2. Cut framing members by sawing or shearing; do not torch cut.
3. Fasten cold formed steel framing members by welding, screw fastening, clinch fastening, pneumatic pin fastening, or riveting as standard with fabricator. Wire tying of framing members is not permitted.
  - a. Comply with AWS D1.3/D1.3M requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.

- b. Locate mechanical fasteners and install in accordance with Shop Drawings, with screws penetrating joined members by no fewer than three exposed screw threads.
4. Fasten other materials to cold formed steel framing by welding, bolting, pneumatic pin fastening, or screw fastening, in accordance with approved Shop Drawings.
- B. Reinforce, stiffen, and brace framing assemblies to withstand handling, delivery, and erection stresses. Lift fabricated assemblies by means that prevent damage or permanent distortion.
  - C. Tolerances: Fabricate assemblies level, plumb, and true to line to a maximum allowable variation of 1/8 inch in 10 feet (1:960):
    1. Spacing: Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
    2. Squareness: Fabricate each cold formed steel framing assembly to a maximum out-of-square tolerance of 1/8 inch (3 mm).

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, conditions, and abutting structural framing for compliance with requirements for installation tolerances and conditions affecting performance of the work. Proceed with installation after correcting unsatisfactory conditions.

### 3.2 PREPARATION

- A. Install load bearing shims or grout between the underside of load bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch (6 mm) to ensure a uniform bearing surface on supporting concrete or masonry construction.
- B. Install sealer gaskets at underside of wall bottom track or rim track and at top of foundation wall or slab at stud or joist locations.
- C. Install sill sealer gasket/termite barrier in accordance with manufacturer's written instructions at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.

### 3.3 INSTALLATION

- A. Cold formed steel framing may be shop or field fabricated for installation, or it may be field assembled.
- B. Install cold formed steel framing according to AISI S200, AISI S202, and manufacturer's written instructions unless more stringent requirements are indicated.

- C. Install cold formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.
    - 1. Cut framing members by sawing or shearing; do not torch cut.
    - 2. Fasten cold formed steel framing members by welding, screw fastening, clinch fastening, or riveting. Wire tying of framing members is not permitted.
      - a. Comply with AWS D1.3/D1.3M requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
      - b. Locate mechanical fasteners, install in accordance with approved Shop Drawings, and comply with requirements for spacing, edge distances, and screw penetration.
        - 1) Make connection to concrete with self-tapping screws designed specifically for concrete connections.
  - D. Install framing members in one piece lengths unless splice connections are indicated for track or tension members.
  - E. Install temporary bracing and supports to secure framing and support loads equal to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
  - F. Do not bridge building expansion joints with cold-formed steel framing. Independently frame both sides of joints.
  - G. Install insulation, specified in Section 07 21 00 "Thermal Insulation," in framing assembly members, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.
  - H. Fasten hole reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.
  - I. Welding:
    - 1. Where welding is required, use low amperage welding equipment and small diameter rods to prevent blow holes in material.
    - 2. Welds: 1/8 inch (3mm) fillet continuous across contact joint.
    - 3. Puddle Welds: 3/4 inch (19 mm) diameter full fusion. Use weld washers where welds are made to material 3/16 inch (4.5 mm) or more in thickness.
      - a. Use splices or butt welds at all butt joints in runner track. No splices shall be permitted in track over lintels, diaphragm sheathing, or diagonal bracing.
- 3.4 EXTERIOR NONLOAD BEARING WALL INSTALLATION
- A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure.
  - B. Fasten both flanges of studs to top and bottom track unless otherwise indicated.
    - 1. Stud Spacing: 24 inches (610 mm) unless indicated otherwise on Drawings.

- C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.
- D. Isolate nonload bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support.
  - 1. Install single deep leg deflection tracks and anchor to building structure.
  - 2. Connect vertical deflection clips to bypassing studs and anchor to building structure.
  - 3. Connect drift clips to cold-formed steel framing and anchor to building structure.
- E. Install horizontal bridging in wall studs, spaced vertically in rows indicated on approved Shop Drawings but not more than 48 inches (1220 mm) apart. Fasten at each stud intersection.
  - 1. Channel Bridging: Cold rolled steel channel, welded, or mechanically fastened to webs of punched studs.
  - 2. Strap Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
  - 3. Bar Bridging: Proprietary bridging bars installed in accordance with manufacturer's written instructions.
- F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall framing system.

### 3.5 ERECTION TOLERANCES

- A. Install cold formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet (1:960):
  - 1. Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

### 3.6 FIELD QUALITY CONTROL

- A. Testing: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
- B. Field and shop welds will be subject to testing and inspecting.
- C. Testing agency will report test results promptly and in writing to Contractor and Architect.
- D. Cold formed steel framing will be considered defective if it does not pass tests and inspections.
- E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

### 3.7 REPAIRS AND PROTECTION

- A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold formed steel framing with galvanized repair paint according to ASTM A 780/A 780M and manufacturer's written instructions.
- B. Provide final protection and maintain conditions ensuring cold formed steel framing is without damage or deterioration at time of Substantial Completion.

**END OF SECTION**

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## SECTION 07 21 00

### THERMAL INSULATION

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Glass fiber blanket.

##### 1.2 ACTION SUBMITTALS

- A. Product Data: Technical data and installation instructions for each type of insulation product specified.

##### 1.3 INFORMATIONAL SUBMITTALS

- A. Installer's Certification: Listing type, manufacturer, and R-value of insulation installed in each element of the building thermal envelope.
  - 1. For blown in or sprayed fiberglass and cellulosic fiber loose fill insulation, indicate initial installed thickness, settled thickness, settled R-value, installed density, coverage area, and number of bags installed.
  - 2. Sign, date, and post the certification in a conspicuous location on Project site.
- B. Product Test Reports: Submit test report for tests performed by a qualified testing agency. based on tests performed by a qualified independent testing agency evidencing compliance of insulation products including thermal resistance, fire test response characteristics, water vapor transmission, water absorption, and other properties, based on comprehensive testing of current products.
- C. Evaluation Reports: Submit current ICC-ES report for foam plastic insulation.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.
- B. Protect foam plastic board insulation:
  - 1. Do not expose to sunlight except to necessary extent for period of installation and concealment.
  - 2. Protect against ignition at all times. Do not deliver foam plastic board materials to Project site until just before installation time.

3. Quickly complete installation and concealment of foam plastic board insulation in each area of construction.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Fire Performance Characteristics: Identify products with appropriate markings of applicable testing and inspecting organization.
  1. Surface Burning Characteristic: ASTM E 84.
    - a. Flame Spread Index: Maximum 25.
    - b. Smoke Developed Index: Maximum 450.
  2. Fire Resistance Ratings: ASTM E 119.
  3. Combustion Characteristics: ASTM E 136.
- B. National Fire Prevention Association (NFPA) 255 Test of Surface Burning Characteristics of Building Materials.
- C. Underwriter's Laboratories (UL) 723 Tests for Surface Burning Characteristics of Building Materials.

### 2.2 GLASS FIBER BLANKET

- A. Glass Fiber Blanket, Unfaced: ASTM C 665, Type I; passing ASTM E 136 for combustion characteristics.
  1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. CertainTeed Corporation; Unfaced Fiberglass Building Insulation.
    - b. Johns Manville; a Berkshire Hathaway Company; Unfaced Fiberglass.
    - c. Owens Corning; Unfaced PINK Next Gen Fiberglass Batt Insulation.
  2. Flame Spread Index: Not more than 25 when tested in accordance with ASTM E84.
  3. Smoke Developed Index: Not more than 50 when tested in accordance with ASTM E84.
  4. Labeling: Provide identification of mark indicating R-value of each piece of insulation 12 inches (305 mm) and wider in width.

### 2.3 INSULATION FASTENERS

- A. Anchor Adhesive: Product with demonstrated capability to bond insulation anchors securely to substrates without damaging insulation, fasteners, or substrates.

## 2.4 ACCESSORIES

- A. Insulation for Miscellaneous Voids:
  - 1. Glass Fiber Insulation: ASTM C 764, Type II, loose fill; with maximum flame spread and smoke developed indexes of 5, per ASTM E 84.
  - 2. Spray Polyurethane Foam Insulation: ASTM C 1029, Type II, closed cell, with maximum flame spread and smoke developed indexes of 75 and 450, respectively, per ASTM E 84.
- B. Adhesive for Bonding Insulation: Product compatible with insulation and air and water barrier materials, and with demonstrated capability to bond insulation securely to substrates without damaging insulation and substrates.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Clean substrates of substances that are harmful to insulation, including removing projections capable of puncturing insulation or vapor retarders, or that interfere with insulation attachment.

### 3.2 INSTALLATION

- A. Comply with insulation manufacturer's written instructions applicable to products and applications.
- B. Board and Batt Insulation: Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.
- C. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
- D. Provide sizes to fit applications and selected from manufacturer's standard thickness, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.

### 3.3 CAVITY WALL INSULATION

- A. Foam Plastic Board Insulation: Install pads of adhesive spaced approximately 24 inches (610 mm) o.c. both ways on inside face and as recommended by manufacturer.
  - 1. Fit courses of insulation between wall ties and other obstructions, with edges butted tightly in both directions. Press units firmly against inside substrates.
  - 2. Press units firmly against inside substrates.
  - 3. Supplement adhesive attachment of insulation by securing boards with two piece wall ties specified in Section 04 20 00 "Unit Masonry."

### 3.4 FRAMED CONSTRUCTION

- A. Blanket Insulation: Install in cavities formed by framing members according to the following requirements:
1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends.
  2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
  3. Maintain 3 inch (76 mm) clearance of insulation around recessed lighting fixtures not rated for or protected from contact with insulation.
  4. For metal framed wall cavities where cavity heights exceed 96 inches (2438 mm), support unfaced blankets mechanically and support faced blankets by taping flanges of insulation to flanges of metal studs.
- B. Miscellaneous Voids: Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:
1. Glass Fiber Insulation: Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft. (40 kg/cu. m).
  2. Spray Polyurethane Insulation: Apply according to manufacturer's written instructions.

### 3.5 PROTECTION

- A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

**END OF SECTION**

Start time- 3:30PM.

Date: August 15,2023

## Travis Renovation Pre Proposal Sign In Sheet

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