

ADDENDUM No. 1

Date: October 14, 2020

City of Austin

Project Name: Zilker Metro Park – Maintenance Barn Replacement

C.I.P. No. 6066.036

IFB#: CLMC821

This Addendum forms a part of Contract and corrects or modifies original Bid Documents, dated September, 2020. Acknowledge receipt of this addendum in space provided on bid form. Failure to do so may subject bidder to disqualification.

A. Project Manual Revisions:

1. Replace Table of Contents to reflect added or modified sections.
2. Replace Section 07 21 00 Thermal Insulation
3. Add Section 10 50 30 Metal Lockers.
4. Replace Page 6 only of Section 133419 Metal Building Systems, attached. Reason: Numbering corrected at 1.7.B Shop Drawings.
5. At Storage Building – All metal trim, soffits, and other to be by Pre-engineered Metal Building Manufacturer.

B. Drawing Revisions:

1. Replace Structural Sheet S104
2. Replace Architectural Sheet A404
3. Disregard all reference to "standing seam metal roofs" in drawings. Roofs at main building and storage building to be "Trapezoidal Seam Metal Roof Panels" by Pre-Engineered Metal Building manufacturer.

C. Miscellaneous Revisions:

1. Reference Sheet A101 – Floor Plan – Metal shelving in Maintenance Bay 101 to be as follows:

Basis of Design: By Uline (1-800-295-5510) or approved equal.

1. 3-tiered industrial shelving racks.
2. Shelving with 2000 lb. load capacity
3. Wire mesh decking
4. Single shelving units or combination of two to provide the following:
 - a. 3 shelving units of: W 96", D 48", H 72"

b. 3 shelving units of: W 144", D 48", H 72"

This addendum consists of 17 pages and 2 drawings.

Hariana Santaria, Proj. Mgr.
Approved By Owner *Public Works*

Jim Beaman

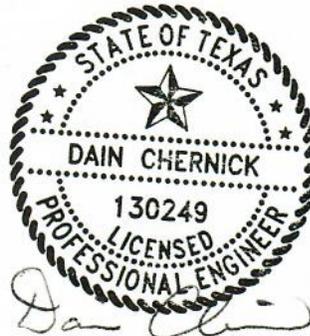
Approved By Architect/Engineer



10.14.2020

Dain Chernick

Approved By Architect/Engineer



14 Oct 2020

Champak Sadhu

Approved By Architect/Engineer



Champak Sadhu
10/12/20

END

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00300L	04/03/2020	Bid Form-Lump Sum
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00900	01/11/19	Addendum (SAMPLE)

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01050	10/19/15	Grades Lines & Levels
01095	07/21/03	Reference Standards and Definitions
01096	05/06/11	Stormwater Pollution Prevention Plan (SWPPP)
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604S	01/04/16	Seeding for Erosion Control
605S	06/21/07	Soil Retention Blanket
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Series 700 – Incidental Construction

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701S	09/26/12	Fencing
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Series 800 – Urban Transportation

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22 11 19	10/05/18	Domestic Water Piping Specialties
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23 05 13	10/05/18	Common Motor Requirements for HVAC Equipment
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END

SECTION 07 21 00 – THERMAL INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Exterior cavity wall insulation in batt form.
 - 2. Rigid insulation at Storage Building.
- B. Related Sections: Section 133419- Metal Building Systems; Refer to related section(s) for thermal roof insulation and draped blanket insulation on exterior walls.

1.3 DEFINITIONS

- A. Thermal Resistivity: Where thermal resistivity properties of insulation materials are designated by "R-values" they represent the reciprocal of thermal conductivity (k-values). Thermal conductivity is the rate of heat flow through a homogenous material exactly 1 inch thick. Thermal resistivities are expressed by the temperature difference in degrees F between the two exposed faces required to cause one BTU to flow through one square foot per hour at mean temperatures indicated.
- B. Thermal Resistance (R-value) is the reciprocal of thermal conductance (C-value) which is the rate of heat flow through a material of the thickness indicated. Thermal resistance (R-value) is expressed by the temperature difference in degrees F (Kelvins) between the two exposed faces required to cause 1 Btu to flow through 1 sq. ft. (1 watt to flow through 1 sq. m) per hour at the mean temperature indicated.

1.4 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data for each type of insulation product specified.
- C. Product test reports from and based on tests performed by qualified independent testing laboratory evidencing compliance of insulation products with requirements including R-values (aged values for plastic foam insulations), fire performance characteristics, perm ratings, water absorption ratings, and other properties, based on comprehensive testing of current products.
- D. Research reports or evaluation reports of the model code organization acceptable to authorities having jurisdiction that evidence compliance of plastic foam insulations with building code in effect for Project.

1.5 QUALITY ASSURANCE

- A. Fire Performance Characteristics: Provide insulation materials identical to those whose indicated fire performance characteristics have been determined per the ASTM test method indicated below, by UL or other testing and inspecting agency acceptable to authorities having jurisdiction. Identify products with appropriate markings of applicable testing and inspecting organization.
 - 1. Surface Burning Characteristics: ASTM E 84.
 - 2. Fire Resistance Ratings: ASTM E 119.
 - 3. Combustion Characteristics: ASTM E 136.

- B. Single-Source Responsibility for Insulation Products: Obtain each type of building insulation from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect insulation materials from physical damage and from deterioration by moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's recommendations for handling, storage and protection during installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following:
 - 1. Insulation:
 - a. CertainTeed Corp.
 - b. Knauf Fiber Glass GmbH.
 - c. Manville: Building Insulation Div., Manville Sales Corp.
 - d. Owens-Corning Fiberglas Corp.

2.2 INSULATING MATERIALS

- A. General: Provide insulating materials that comply with requirements and with referenced standards.
 - 1. Preformed Units: Sizes to fit applications indicated, selected from manufacturer's standard thicknesses, widths and lengths.
- B. Unfaced Mineral Fiber Blanket/Batt Insulation (In Exterior Walls): Thermal insulation produced by combining mineral fibers of type described below with thermosetting resins to comply with ASTM C 665 for Type I (blankets without membrane facing); and as follows:
 - 1. Mineral Fiber Type: Fibers manufactured from glass.
 - 2. Surface Burning Characteristics: Maximum flame spread and smoke developed values of 25 and 50, respectively.
 - 3. R-values: Minimum of 19 at exterior walls and minimum of 38 at roof of pre-engineered metal building. Refer to Section 13 34 19- Metal Building Systems, for information on roof insulation. These values are for the insulation itself.
- C. Faced Mineral Fiber Blanket/Batt Insulation (Below Roof and Above Ceilings/Soffits): Thermal insulation produced by combining mineral fibers of type described below with thermosetting resins to comply with ASTM C 665 for Type III, Class A (blankets with reflective vapor-retarder membrane facing with flame spread of 25 or less); foil-scrim-kraft vapor-retarder membrane on one face, respectively; and as follows:
 - 1. Mineral Fiber Type: Fibers manufactured from glass.
 - 2. Surface Burning Characteristics: Maximum flame spread and smoke developed values of 25 and 50, respectively.
- D. Rigid Insulation- At Storage Building, R-25:
 - 1. Fibrous Glass: to CAN/ULC-S702, rigid, and as follows:
 - 1. Thermal Resistance: minimum 0.73 m²°C/W per 25.4 mm thickness.
 - 2. Minimum Density: 45 kg/m³.
 - 3. Board Dimensions and Shape:
 - a. Minimum Width: 400 mm.
 - b. Minimum Length: 1200 mm.

4. Thickness: 5".

2.3 AUXILIARY INSULATING MATERIALS

- A. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation or mechanical anchors securely to substrates indicated without damaging or corroding either insulation, anchors, or substrates.
- B. Adhesively Attached Pin Anchors: Perforated plate, 2 inches square, welded to projecting pin, with self-locking washer, complying with the following requirements:
 - 1. Plate: Zinc-plated steel, 0.106 inch thick.
 - 2. Pin: Copper-coated low carbon steel, fully annealed, 0.106 inches in diameter, length to suit depth of insulation indicated and, with washer in place, to hold insulation tightly to substrate behind insulation.
 - 3. Self-Locking Washer: Mild steel, 0.106-inch-thick, size as required to hold insulation securely.
 - 4. Where spindles will be exposed to human contact after installation, protect ends with capped self-locking washers.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions with Installer present, for compliance with requirements of the Sections in which substrates and related work are specified and to determine if other conditions affecting performance of insulation are satisfactory. Do not proceed with installation of insulation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrates of substances harmful to insulations or vapor retarders, including removal of projections which might puncture vapor retarders.

3.3 INSTALLATION, GENERAL

- A. Comply with manufacturer's instructions applicable to products and application indicated. If printed instructions are not available or do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with installation of insulation.
- B. Extend insulation full thickness as indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions, and fill voids with insulation. Remove projections which interfere with placement.
- C. Apply a single layer of insulation of required thickness, unless otherwise shown or required to make up total thickness.

3.4 INSTALLATION OF GENERAL BUILDING INSULATION

- A. Apply insulation units to substrate by method indicated, complying with manufacturer's recommendations. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.
- B. Set vapor retarder faced units with vapor retarder to warm side of construction, except as otherwise indicated. Do not obstruct ventilation spaces, except for firestopping.

3.5 PROTECTION

- A. General: Protect installed insulation and vapor retarders from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or

enclosures where insulation will be subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION 07 21 00

SECTION 10 50 30 METAL LOCKERS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Lockers of the following types:
 - 1. Standard duty metal lockers
 - 2. Locker accessories.

1.2 RELATED SECTIONS

- A. Section 03 35 11 – Concrete Floor Finishes.
- B. Section 06 10 00 - Rough Carpentry

1.3 REFERENCES

- A. ADAAG - American with Disabilities Act, Accessibility Guidelines.
- B. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
- C. ASTM International (ASTM):
 - 1. ASTM A 1008 - Standard Specification for Steel Sheet, Carbon, Cold-Rolled, Commercial Quality.
 - 2. ASTM D 4976 - Standard Specification for Polyethylene Plastics Molding and Extrusion Materials.
 - 3. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Provide layout and elevations of lockers with overall dimensions.
- D. LEED Requirements: Provide products required by this section with attributes that contribute to the project sustainability goals:
 - 1. MR 4.1 and MR 4.2: Recycled Content.
 - 2. EQ 4.1, EQ 4.2, EQ 4.4: Low Emitting Materials.
- E. Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms.
- F. Verification Samples: For finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product and color selected.

1.5 QUALITY ASSURANCE

- A. Provide all lockers from a single manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Inspect lockers upon receipt for visible damage. Further inspection if necessary, for hidden damage.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Sequence deliveries to avoid project delays, but minimize on-site storage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer:
 - 1. ASI Storage Solutions
 - 2. Penco Products
 - 3. Global Industrial
- B. Substitutions to be verified with architect.

2.2 MATERIALS

- A. Steel: Prime grade mild cold-rolled sheet steel free from surface imperfection, capable of taking a powder coating finish.
 - 1. Hooks: Zinc plated forged steel, ball ends.
 - 2. Bolts and Nuts: Zinc plated truss fin head bolts, hex nuts.
 - 3. Rivets.

2.3 STANDARD DUTY METAL LOCKERS

- A. Standard Duty Metal Lockers:
 - 1. Type of Lockers: Welded.
 - 2. Double Tier:
 - a. Height: 78 inches (1981 mm).
 - b. Size: 12 inches (305 mm) wide by 18 inches (457 mm) deep.
 - 3. Material: Steel parts shall be mild cold rolled commercial quality steel, ASTM A1008.
 - 4. Finish: Steel surfaces shall be power washed, phosphate treated and finished with an electrostatically applied 2 mm thick hybrid epoxy/polyester powder coating and baked.
 - 5. Construction: Lockers shall be built on a unitized principle with common intermediate uprights separating units.
 - 6. Door Frames: 16 gauge formed in a channel shape. Vertical members shall have additional flange to provide a continuous door strike. Cross frame members; 16 gauge channel shaped.
 - a. Double Tier Lockers: Include intermediate cross frames.
 - 7. Doors: Welded: 14 gauge with louvers, channel shaped on both the lock and hinge side, with angle formations across the top and bottom.

8. Body:
 - a. Bottoms: 16 gauge.
 - b. Tops, Sides and Shelves, Welded: 16 gauge.
 - c. Backs: 18 gauge.
 - d. Bolt spacing shall not exceed 9 inches (228 mm) o.c.
9. Hinges: Full length 16 gauge continuous piano type, riveted to both door and frame.
10. Handles: One-piece 20 gauge deep drawn stainless steel cup designed to accommodate padlocks.
11. Latching: 4,5,6 Tier: An 11 gauge frame hook shall be secured to the frame. The frame shall have a padlock hasp protruding through the recessed handle. A rubber silencer shall be firmly secured to the frame at each latch hook.
12. A rubber silencer shall be firmly secured to the frame at each latch hook.
13. Interior Equipment:
 - a. Double Tier lockers shall have three wall hooks and one ceiling hook
14. Number Plates: Each locker shall have a polished aluminum number plate riveted to door face with black numerals 1/2 inch (12 mm) high.
15. Finish: Doors and exposed body parts shall be finished in a baked-on powder coat finish in color indicated.
 - a. Color: Almond #03.
16. Assembly:
 - a. Factory Assembly: All locker components shall be assembled with rivets.

2.4 LOCKER ACCESSORIES

- A. Metal Locker Sloped Tops:
 1. Continuous slope top shall be 18 gauge sheet steel, powder coated to match the color of the lockers. Hoods are 72 inches (1.828 m) in length by depth of locker. For longer lengths, slip joints without visible fasteners at splice locations shall be provided. End closures shall be provided. The slope shall have a rise equal to 1/3 of the locker depth, plus a 1 inch (25 mm) vertical rise at the front.
- B. Metal Locker Bases:
 1. Base: Zee base shall be 14 gauge sheet steel, powder coated to match the color of the lockers.
- C. Metal Locker Fillers-Vertical: Fillers shall be 20 gauge sheet steel, powder coated to match the color of the lockers.
 1. Filler Width: 12 inches (305 mm).
- D. Metal Locker Recess Trim: Recess trim shall be 18 gauge sheet steel, powder coated to match the color of the lockers.
 1. Side Trim (Trim is handed):
 - a. 3 inches (76 mm) wide by 63 inches (1.60 m) high.
 - b. 3 inches (76 mm) wide by 75 inches (1.90 m) high.
 2. Top Trim: 74 inches (1.88 m) long by 3 inches (76 mm) high
 3. Splice: 2 inches (50 mm) by 3 inches (76 mm).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates and bases have been properly prepared.
- B. If substrate and bases are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install lockers and accessories at locations shown in accordance with manufacturer's instructions.
- B. Install lockers level and plumb with flush surfaces and rigid attachment to anchoring surfaces.
- C. Anchor lockers to floor and wall at 48 inches (1.219 m) or less, as recommended by the manufacturer.
- D. Fasten adjoining locker units together to provide rigid installation.
- E. Install sloping tops and metal fillers using concealed fasteners. Provide flush hairline joints against adjacent surfaces.
- F. Install front bases between legs without overlap or exposed fasteners. Provide end bases on exposed ends.
- G. Install benches by fastening bench tops to pedestals and securely anchoring to the floor using appropriate anchors for the floor material.

3.3 ADJUSTING AND CLEANING

- A. Adjust doors and latches to operate without binding. Verify that latches are operating satisfactorily.
- B. Touch-up factory-finish and repair or replace damaged products before Substantial Completion.

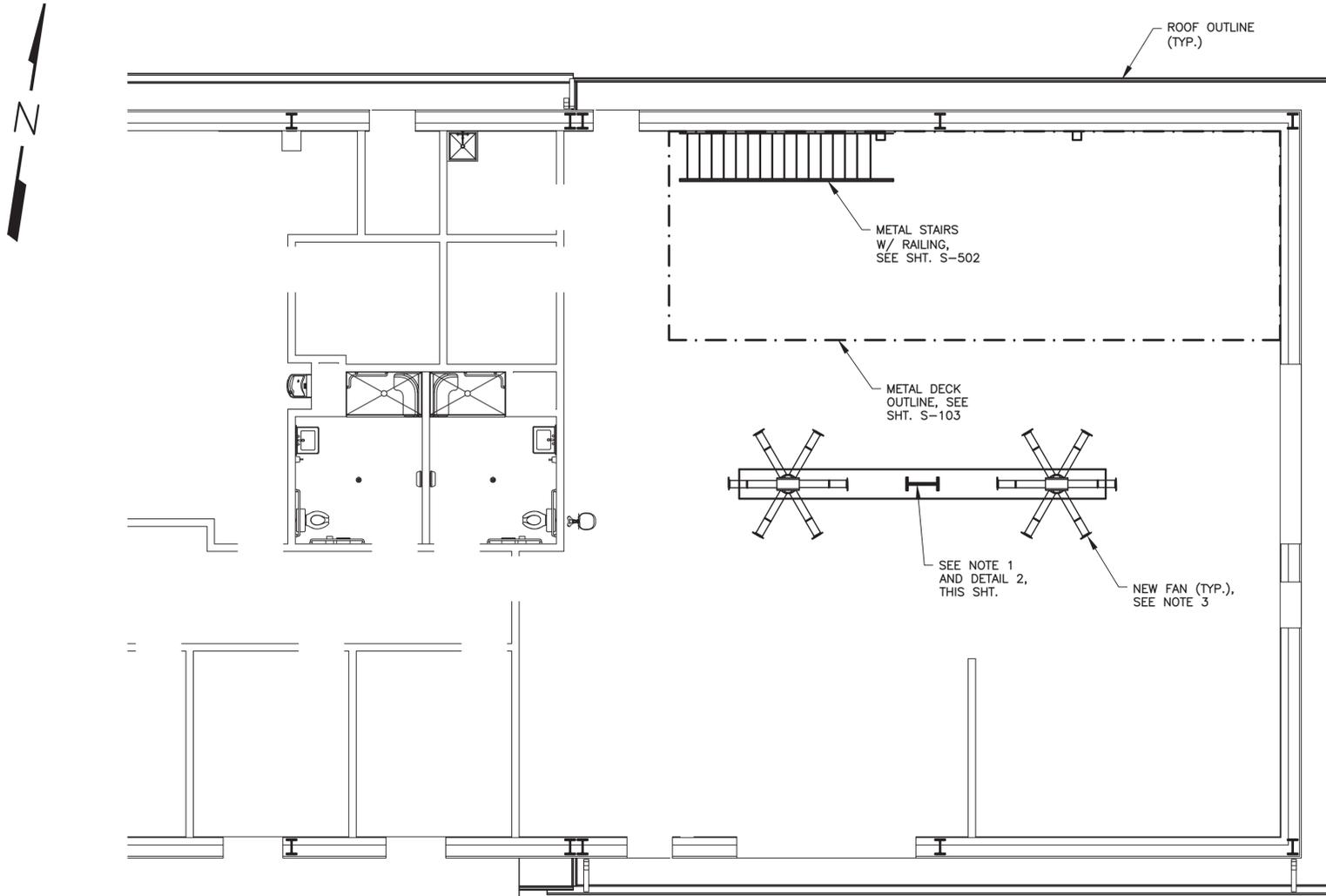
3.4 PROTECTION

- A. Protect installed products until completion of project.

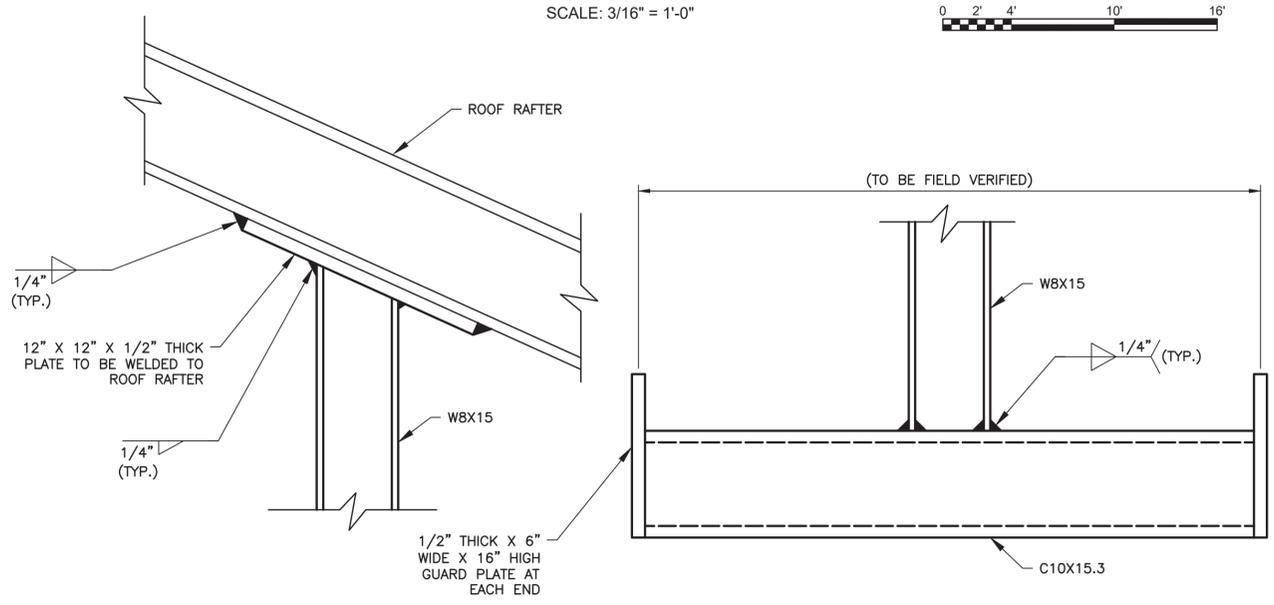
END OF SECTION

- B. Shop Drawings: For the following metal building system components. Include plans, elevations, sections, details, and attachments to other Work.
1. For installed components indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
 2. Submittal to include a proper sequence of erection to verify future installation of exterior doors, windows, louvers and all other affected components.
 3. A structural review will be required by City of Austin building permit reviewers. A stamped set by a State of Texas registered engineer to be included in submittal.
 4. Anchor-Bolt Plans: Include location, diameter, and projection of anchor bolts required to attach metal building to foundation. Indicate column reactions at each location.
 5. Structural-Framing Drawings: Show complete fabrication of primary and secondary framing. Indicate welds and bolted connections, distinguishing between shop and field applications. Include transverse cross-sections.
 6. Roof and Wall Panel Layout Drawings: Show layouts of panels on support framing, details of edge conditions, joints, panel profiles, corners, custom profiles, supports, anchorages, trim, flashings, closures, and special details. Distinguish between factory- and field-assembled work.
 7. Personnel and Roll up Door Framing: Provide frames, using the same reference numbers as indicated on Drawings. Include details of reinforcement and installation requirements.
 8. Accessory Drawings: Include details of the following items, at a scale of not less than 1-1/2 inches per 12 inches (1:10):
 - a. Ductwork penetration (equipment by others)
 - b. Beam wall penetrations
 - c. Wall panel sills
 - d. Gutters.
 - e. Downspouts.
- C. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for each type of the following products with factory-applied color finishes:
1. Roof panels.
 2. Wall panels.
 3. Trim and closures.
 4. Accessories.
- D. Samples for Verification: For the following products, in manufacturer's standard sizes, showing the full range of color, texture, and pattern variations expected, in the profile and style indicated. Prepare Samples from the same material to be used for the Work.
1. Roof Panels: 12 inches (300 mm) long by actual panel width. Include clips, caps, battens, fasteners, closures, and other exposed panel accessories.
 2. Wall Panels: 12 inches (300 mm) long by actual panel width. Include clips, caps, battens, fasteners, closures, and other exposed panel accessories.
 3. Trim and Closures: 12 inches (300 mm) long. Include fasteners and other exposed accessories.
 4. Vapor Retarders: 6-inch- (150-mm-) square samples.
 5. Accessories: 12-inch- (300-mm-) long samples for each type of accessory.

X:\City of Austin (06141)\General Civil 2006-2009\06141.036.004_Zilker MBarn Replace\09.0 Design Engineering\CAD\FOUNDATION PLAN.dwg STAUDTS Plotted: October 09, 2020 - 11:38am Layout: S-05
 PERS: ZILKER.TB 2013, E-BSE 2017, P-508 2017 rev 01/16

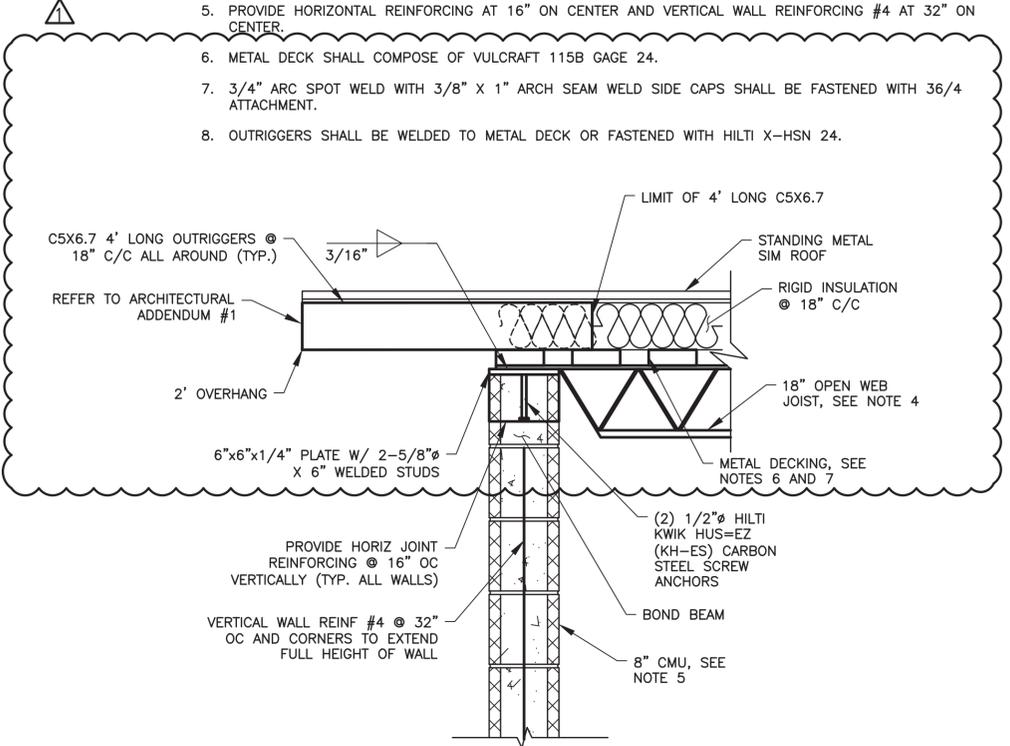


MAINTENANCE BARN FAN SUPPORT PLAN
 SCALE: 3/16" = 1'-0"

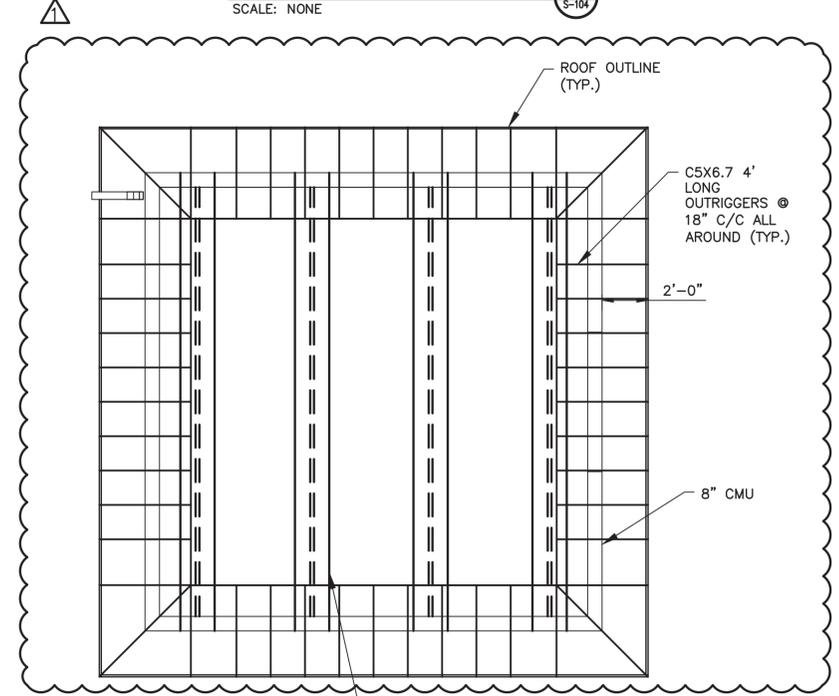


FAN TO ROOF RAFTER CONNECTION DETAIL
 SCALE: NONE

- NOTES:**
1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ALONG WITH DESIGN ANALYSIS OF OPEN WEB STEEL JOIST SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS FOR ENGINEER'S REVIEW AND APPROVAL.
 2. LOCATION OF W8X15 SHALL BE BASED ON THE LOCATION OF ROOF JOIST AND SHALL BE FOR FAN SUSPENSION VERIFIED WITH THE METAL BUILDING SHOP DRAWINGS AND CUTSHEETS OF NEW FAN.
 3. THE LOCATION OF NEW FAN SHALL BE VERIFIED WITH ARCHITECTURAL AND ELECTRICAL DRAWING SHEETS.
 4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE OPEN WEB JOIST WITH DESIGN DATA SHEET FOR ENGINEER'S REVIEW AND APPROVAL.
 5. PROVIDE HORIZONTAL REINFORCING AT 16" ON CENTER AND VERTICAL WALL REINFORCING #4 AT 32" ON CENTER.
 6. METAL DECK SHALL COMPOSE OF VULCRAFT 115B GAGE 24.
 7. 3/4" ARC SPOT WELD WITH 3/8" X 1" ARCH SEAM WELD SIDE CAPS SHALL BE FASTENED WITH 3/4" ATTACHMENT.
 8. OUTRIGGERS SHALL BE WELDED TO METAL DECK OR FASTENED WITH HILTI X-HSN 24.



WEB JOIST CONNECTION DETAIL
 SCALE: NONE



CHEMICAL STORAGE BUILDING ROOF PLAN
 SCALE: 1/4" = 1'-0"

REV. NO.	DATE	REVISION DESCRIPTION
1	10/09/20	ADDENDUM # 1



WESTON SOLUTIONS, INC.
 5301 SOUTHWEST PKWY, SUITE 450
 AUSTIN, TEXAS 78735
 TBPB REGISTRATION NO. F-3123

WESTON SOLUTIONS

ZILKER METRO PARK -
 MAINTENANCE BARN REPLACEMENT
 2338 COLUMBUS DRIVE
 FAN SUPPORT PLAN AND
 CHEMICAL BUILDING ROOF PLAN



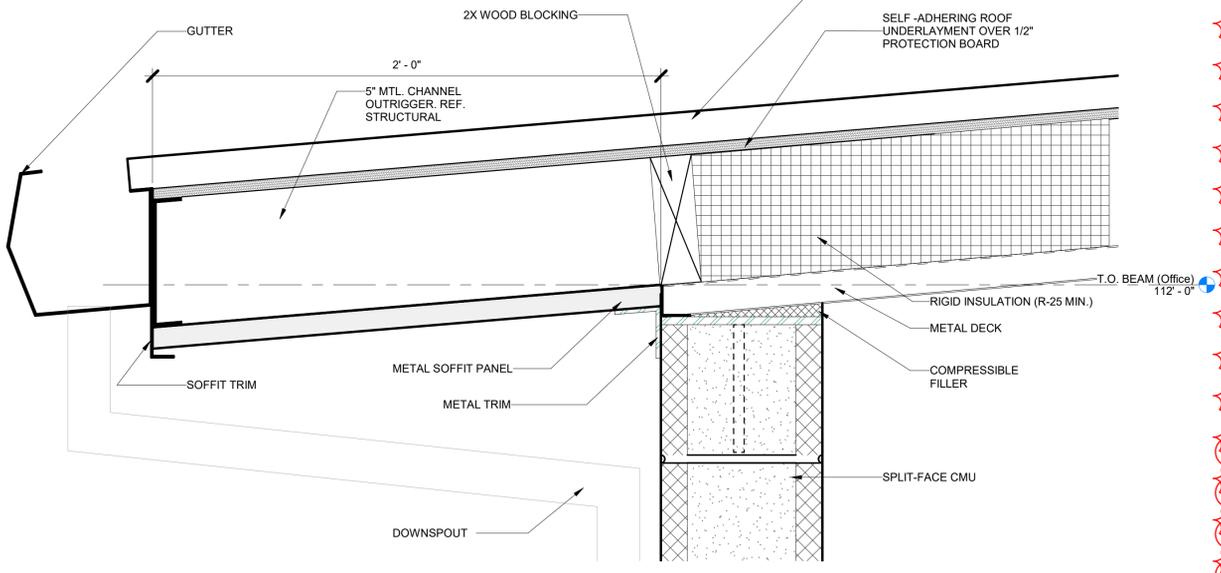
NOTES	NAME	DATE
SURVEY BY	JMC	11/16
DRAWN BY	SS	11/18
CHECKED BY	DC	11/18
DESIGNED BY	DC	11/18
REVIEWED BY	SI	11/18

SCALE: AS SHOWN

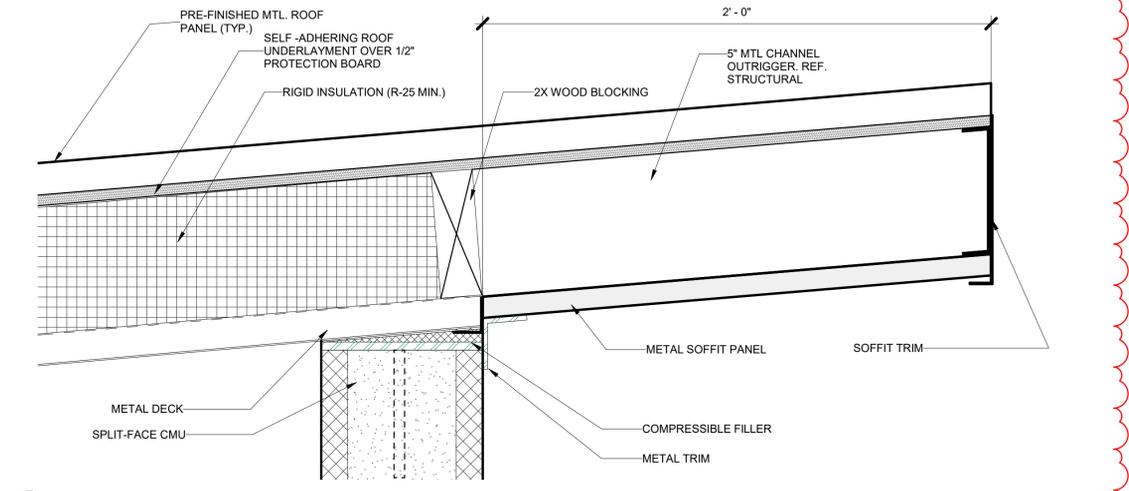
SHEET NUMBER S-104

PLOTTED: 10/9/2020 11:52:02 AM

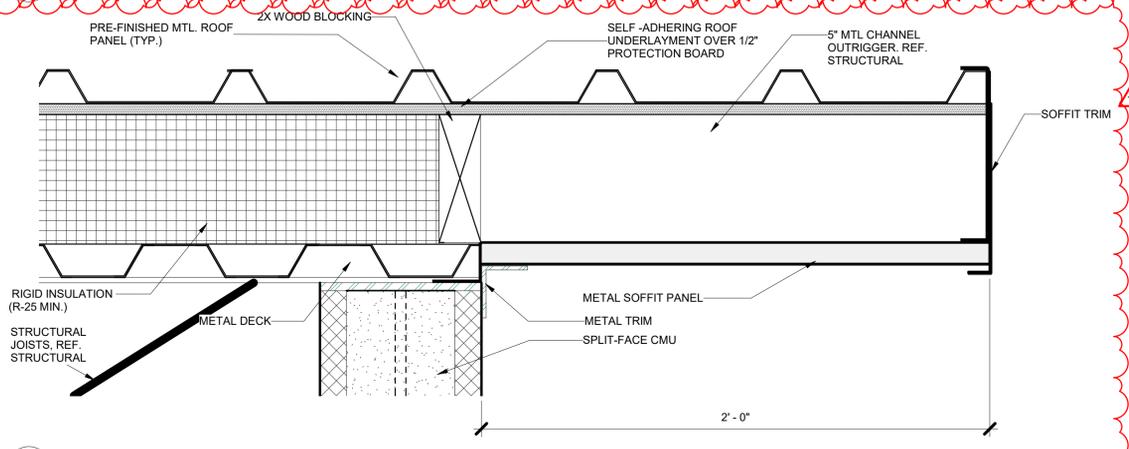
2 SECTION DETAIL
3" = 1'-0"



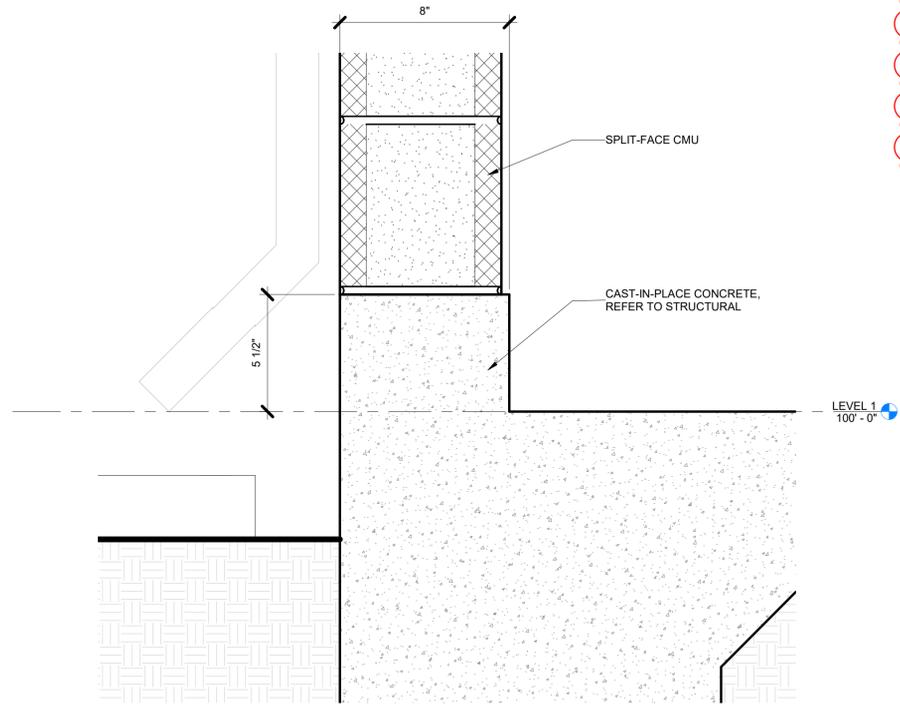
5 SECTION DETAIL
3" = 1'-0"



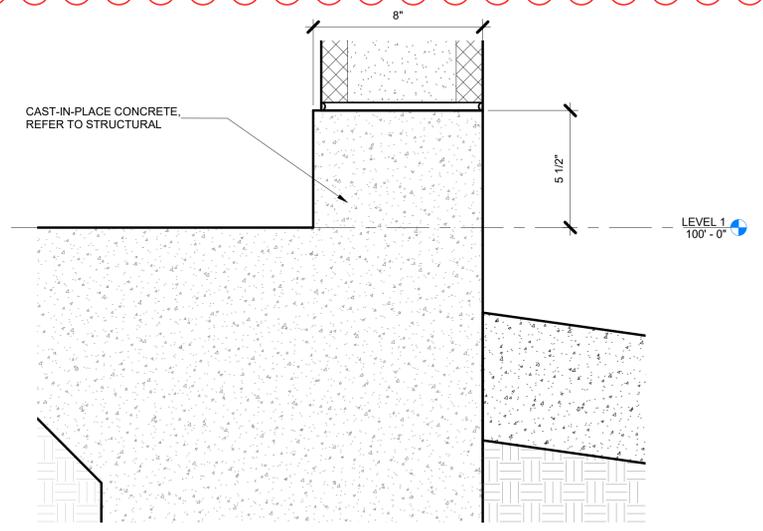
4 SECTION DETAIL
3" = 1'-0"



1 SECTION DETAIL
3" = 1'-0"



3 SECTION DETAIL
3" = 1'-0"



REV. NO.	DATE	DESCRIPTION
1	10/14/2020	

ADDENDUM #1



WESTON SOLUTIONS, INC.
5301 SOUTHWEST PKWY, SUITE 450
AUSTIN, TEXAS 78735
TBPCE REGISTRATION NO. F-3123

WESTON SOLUTIONS

ZILKER METRO PARK -
MAINTENANCE BARN REPLACEMENT
2338 COLUMBUS DRIVE

WALL DETAILS



NOTES	NAME	DATE
SURVEY BY	JMC	11/16
DRAWN BY	.	.
CHECKED BY	.	.
DESIGNED BY	.	.
REVIEWED BY	.	.
SCALE:	AS SHOWN	
SHEET NUMBER	A-404	