

Chamberlin Architects, P.C.  
437 Main Street  
Grand Junction, CO 81501

## ADDENDUM #5

**Western Slope Food Bank of the Rockies**  
698 Long Acre Drive

**Bid Package #4 – Above Ground**

Architect's Project No. 2108

September 10, 2021

The original Project Manual dated 8/25/21 and Drawings dated on 8/25/21, for the project noted above are amended as noted in this Addendum. This Addendum may include revised Drawings that are to be inserted in the correct sequence in the Construction Issue. All bidders are required to include the items listed in the Addendum as part of their bid. This Addendum consists of **three (3)** page plus attachments.

Drawing changes are clouded.

Text deleted from the project manual by this addendum is indicated by Strikethrough (~~example~~). New text included in the Project manual is indicated in double underline typeface (example).

*This addendum is issued to answer bid questions, to incorporate substitution requests, and to add or clarify miscellaneous detail that was not complete in the original construction documents.*

ITEM NO.                      DESCRIPTION

### PROJECT MANUAL

- ADD5-1      Table of Contents: Add Section 033500 Concrete Finishing. Delete Section 072600 Vapor Retarders.
- ADD5-2      Section 012300 Alternates: Delete section and replace with the attached reissued section 012300. (Includes clarification that Alternate #1 will not be pursued by the Owner and clarification that Alternate #3 applies to the Kitchen Freezer only, not the Kitchen Cooler.)
- ADD5-3      Add the attached Section 033500 Concrete Finishing.
- ADD5-4      Delete Section 072600 Vapor Retarders. (This section is being included in Bid Package #3 instead, refer to Addendum #6.)
- ADD5-5      Section 096723 Resinous Flooring, Part 2.2: Add the following paragraph:

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C. Approved Manufacturers

1. Provide the basis-of-design product in part 2.1, or an equivalent product by one of the following manufacturers:
  - a. Dex-O-Tex.
  - b. Sherwin Williams.
  - c. Tennant Coatings.

ADD5-6 Section 101419 Dimensional Letter Signage, Part 2.2.A: Change paragraphs 4 and 5 as follows:

4. Thickness: 1/4" ~~Manufacturer's standard for size of character.~~
5. Finishes: Manufacturer's paint finish with custom colors to match Owner's brand standards.

ADD5-7 Section 105126 Plastic Lockers, Part 2.1.A: Add the following subparagraph 1:

1. Subject to project requirements, equal manufacturers include:
  - a. Summit Lockers, Inc.

ADD5-8 Section 105126 Plastic Lockers: Add the following Part 2.3:

2.3 BENCH

- A. Basis-of-design product Summit Lockers ADA bench with ADA compliant backrest or equivalent.
  - a. Size: 24" deep by 42" minimum and 48" maximum length.
  - b. Materials:
    - i. HDPE bench and back. Phenolic bench seat and back are also acceptable.
    - ii. Four pedestal powder coat bases with matching powder coat back rest hardware.
  - a. Color:
    - i. Bench and back material, color to be selected from manufacturer's standard colors.
    - ii. Base and back hardware powder coat color to be selected from manufacturer's standard colors.

ADD5-9 Section 211313 Wet-Pipe Sprinkler Systems: Delete section and replace with attached reissued section 211313.

DRAWINGS

ADD5-10 Sheet L2, Plant Schedule: Change quantity of AA Hackberry from 6 to 4.

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- ADD5-11 Sheet A102 Main Level Floor Plan – East: On the east of Freezer Storage 154 delete the note “6" x 6" CONC CURB AT OUTSIDE OF COOLER/FREEZER AS SHOWN, RE WALL TYPES”.
- ADD5-12 Sheet A121 Main Level – West & Second Floor Office Reflected Ceiling Plans: Between grids 5 & 6 north of the Clean Room 141, delete the note “ALTERNATE #1: CLEAN ROOM CEILING AND LIGHTING BY REFRIGERATION SUPPLIER, NIC. BASE BID: CLG AS INDICATED.”
- ADD5-13 Sheet A121 Main Level – West & Second Floor Office Reflected Ceiling Plans: At the fan on grid 6 in Agency Staging 129, change the note “14' FAN, 250 LB, RELOCATED FROM EXG FOOD BANK” to the following:  
14' FAN, 250 LB, RELOCATE  
FAN FROM EXG FOOD BANK  
FACILITY IN PALISADE
- ADD5-14 Sheet A141 Roof Plan: Add attic louvers per attached reissued sheet A141.
- ADD5-15 Sheets A161 and A162, Interior Finish Legend: Under Floor Finishes, change SCONC – “Sealed Concrete” to  
SCONC - CONCRETE FINISHED WITH CURE-  
DENSIFIER-HARDER PER 033500.
- ADD5-16 Sheet A201 Exterior Elevations, detail 3 West: At the note pointing to the address lettering, change “cast” to “cut” so the note reads “ADDRESS NUMBERS, 8” TALL CUT ALUM”.
- ADD5-17 Sheet A403 Interior Elevations: Delete sheet and replace with attached revised sheet A403.
- ADD5-18 Sheet A501 Building Sections: Change detail 1 per attached revised sheet A501.
- ADD5-19 Sheet M101 Main Level Mechanical Plan - West & Second Floor Office: Delete sheet and replace with attached reissued sheet M101.
- ADD5-20 Sheet M201 Mechanical Details & Legend: Add Dehydrator Ductwork Details per attached reissued sheet M201.

END OF ADDENDUM 5

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## SECTION 012300 - ALTERNATES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for alternates.

#### 1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

#### 1.3 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

### PART 2 - PRODUCTS (Not Used)

### PART 3 - EXECUTION

#### 3.1 SCHEDULE OF ALTERNATES

- A. Alternate #1, Clean Room: Not applicable, alternate not accepted by Owner.

- ~~1. Base Bid: Stud walls, suspended ceiling, doors, windows and light fixtures at the Clean Room 141 shall be as shown on the drawings.~~
  - ~~2. Alternate: Walls and ceiling shall be 4" insulated metal panels furnished and installed by the refrigeration supplier. Walls separating the kitchen and lockers from the clean room will be as shown in the base bid, except no finish is required on the clean room side, see wall types. Light fixtures, doors and windows in the Clean Room shall be furnished and installed by refrigeration supplier. Refrigeration supplier is under separate contract.~~
- B. Alternate #2, Agency Cooler Insulated Slab: Not applicable, Alternate #2 was not accepted with Bid Package #3 Foundations.
- C. Alternate #3, Kitchen Cooler/Freezer Insulated Slab: Also refer to Bid Package #3 for details.
1. Base Bid: Provide typical flush concrete floor slab per structural drawings with recessed area at Freezer to receive insulated panel by refrigeration supplier.
  2. Alternate: Provide insulated floor slab at ~~both Freezer and Cooler~~ with structural slab recessed 9" to receive 4" of XPS insulation over vapor barrier with 5" topping slab. Provide thermal break between Freezer and Cooler as detailed on drawings.
- D. Alternate #4, Metal Building Roof Thermal Blocks
1. Base Bid: Install batt insulation compressed between roof panels and metal building girts as shown on drawings, except omit thermal blocks.
  2. Alternate: Add thermal blocks under roof panels, minimum R-3.5, refer to detail for Typical Roof Assembly at PEMB, on A141.

END OF SECTION 01 2300

## SECTION 033500 – CONCRETE FINISHING

## PART 1 – GENERAL

## 1.1 SUMMARY

- A. Section Includes:
  - 1. Single application cure-densifier-hardener for new and existing concrete floors.
  - 2. Precautions for avoiding staining concrete before and after application.
- B. Related Section:
  - 1. Cast-In-Place Concrete: Division 03 Cast-In-Place Concrete sections.

## 1.2 SUBMITTALS

- A. Product Data: Submit product data, including manufacturer's Spec-Data® sheet, installation instructions and technical bulletins for specified products.
- B. Certificates: Manufacturer's certification that the installer is acceptable.
- C. Maintenance Data: Maintenance instructions, including precautions for avoiding staining after application.

## 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

## 1.4 DELIVERY, STORAGE &amp; HANDLING

- A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.
- C. Handling: Protect materials from dirt, corrosion, oil, grease and other contaminants.

## PART 2 - PRODUCTS

## 2.1 CURE-DENSIFIER-HARDENER

- A. Basis of Design Product: Ashford Formula, by Curecrete Distribution, Inc.

1. Subject to project requirements, provide approved equal products one of the following manufacturers.
  - a. Burke by Edoco.
  - b. ChemMasters.
  - c. ChemTec International.
  - d. Curecrete Distribution Inc.; Ashford Formula.
  - e. Dayton Superior Corporation; Day-Chem Sure Hard.
  - f. Euclid Chemical Company (The).
  - g. Kaufman Products, Inc.
  - h. L&M Construction Chemicals, Inc..
  - i. Meadows, W. R., Inc..
  - j. Metalcrete Industries.
  - k. Nox-Crete Products Group, Kinsman Corporation.
  - l. Symons Corporation, a Dayton Superior Company.
  - m. US Mix Products Company.
  - n. Vexcon Chemicals, Inc..
  
- B. Product Description and Requirements: A transparent, chemically reactive, water-based treatment that penetrates into the concrete surface, forming a chemical reaction of crystalline growth that fills in the natural pores and voids in the concrete surface.
  1. Abrasion Resistance to Revolving Disks: At least a 32.5% improvement over untreated samples when tested in accordance with ASTM C779.
  2. Surface Adhesion: At least a 22% increase in adhesion for epoxy when tested in accordance with ASTM D3359.
  3. Hardening: As follows when tested in accordance with ASTM C39:
    - a. After 7 Days: An increase of at least 40% over untreated samples.
    - b. After 28 Days: An increase of at least 38% over untreated samples.
  4. Rebound Number: An increase of at least 13.3% over untreated samples when tested in accordance with ASTM C805.
  5. Electrical Resistance: To ASTM F150.
  6. Light Exposure Degradation: No evidence of adverse effects on treated samples when tested in accordance with ASTM G23.
  7. Test Method for Measuring Wet SCOF of Common Hard-Surface Floors in accordance with ANSI B101.1.
  8. Test Method for Measuring Wet DCOF of Common Hard-Surface Floors in accordance with ANSI B101.3.
  9. Certified as High Traction by the National Floor Safety Institute (NFSI), Phase 2 testing.
  10. Certified Compliant according to California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017.

## PART 3 - EXECUTION

### 3.1 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

### 3.2 EXAMINATION

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

### 3.3 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Do not use frozen material. Thaw and agitate prior to use.
- D. If construction equipment must be used for application, diaper all components that might drip oil, hydraulic fluid or other liquids.

### 3.4 INSTALLATION

- A. New Concrete: Apply cure-densifier hardener to new concrete as soon as the concrete is firm enough to work on after troweling; with colored concrete, wait a minimum of 30 days before application.
  - 1. Spray on at rate of 200 ft<sup>2</sup>/gal (5 m<sup>2</sup>/L).
  - 2. Keep surface wet with cure-densifier-hardener for a minimum soak-in period of 30 minutes without allowing it to dry or become slippery. If slipperiness occurs before the 30 minute time period has elapsed, apply additional cure-densifier-hardener, as needed, to keep the entire surface in a non-slippery state for the first 15 minutes; for the remaining 15 minutes, mist the surface as needed with water to keep the material in a non-slippery state. In hot weather conditions, follow manufacturer's special application procedures.
  - 3. When the treated surface becomes slippery after this period, lightly mist with water until slipperiness disappears.
  - 4. Wait for surface to become slippery again, and then flush entire surface with water to remove all cure-densifier-hardener residue.
  - 5. Squeegee surface completely dry, flushing any remaining slippery areas until no residue remains.
  - 6. Wet vacuum or scrubbing machines can be used in accordance with manufacturer's instructions to remove residue.
- B. Existing Concrete: Apply cure-densifier-hardener only to clean, bare concrete.
  - 1. Thoroughly remove previous treatments, laitance, oil and other contaminants.
  - 2. Saturate surface with cure-densifier-hardener; respray or broom excess onto dry spots.
  - 3. Keep surface wet with cure-densifier-hardener for a minimum soak-in period of 30–40 minutes.



4. If most of the material has been absorbed after the 30 minute soak-in period, remove all excess material, especially from low spots, using broom or squeegee.
5. If most of the material remains on the surface after the 30 minute soak-in period, wait until the surface becomes slippery and then flush with water, removing all cure-densifier-hardener residue. Squeegee completely dry, flushing any remaining slippery areas until no residue remains.
6. If water is not available, remove residue using squeegee.

### 3.5 PROTECTION

- A. Protect installed floors for at least 3 months until chemical reaction process is complete.
  1. Do not allow traffic on floors for 3 hours after application.
  2. Do not allow parking of vehicles on concrete slab.
  3. If vehicles must be temporarily parked on slab, place drop cloths under vehicles during entire time parked.
  4. Do not allow pipe cutting using pipe cutting machinery on concrete slab.
  5. Do not allow temporary placement and storage of steel members on concrete slabs.
  6. Clean up spills immediately and spot-treat stains with degreaser or oil emulsifier.
  7. Clean floor regularly in accordance with manufacturer's recommendations.

END OF SECTION 033500

## SECTION 211313 - WET-PIPE SPRINKLER SYSTEMS

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Wet-pipe sprinkler system.
2. System design, installation, and certification.

B. Related Requirements:

1. Section 210500 - Common Work Results for Fire Suppression: Pipe materials, fittings, check valves, and supervised valves.
2. Section 210513 - Common Motor Requirements for Fire-Suppression Equipment: Pump motors.
3. Section 211200 - Fire-Suppression Standpipes: Standpipe connection to wet-pipe sprinkler system.
4. Section 213000 - Fire Pumps: Connection of fire pump to wet-pipe sprinkler system.
5. Section 221100 - Facility Water Distribution: Domestic water supply and backflow preventers.
6. Section 260583 - Wiring Connections: Electrical connections to equipment.
7. Section 283100 - Fire Detection and Alarm: Automatic fire-alarm and smoke-detection systems.

#### 1.2 REFERENCE STANDARDS

A. National Electrical Manufacturers Association:

1. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).

B. National Fire Protection Association:

1. NFPA 13 - Standard for the Installation of Sprinkler Systems.

#### 1.3 PREINSTALLATION MEETINGS

A. Section 013000 - Administrative Requirements: Requirements for preinstallation meeting.

B. Convene minimum one week prior to commencing Work of this Section.

#### 1.4 SUBMITTALS

A. Section 013300 - Submittal Procedures: Requirements for submittals.

- B. Product Data:
  - 1. Submit manufacturer information regarding sprinklers, valves, and specialties.
  - 2. Submit performance ratings, rough-in details, weights, and requirements for supports and piping connections.
- C. Shop Drawings:
  - 1. Indicate layout of finished-ceiling areas, indicating sprinkler locations to be coordinated with ceiling installation and ductwork.
  - 2. Indicate detailed pipe layout, hangers and supports, sprinklers, components, and accessories.
  - 3. Indicate system controls.
- D. Delegated Design Submittals: Submit signed and sealed Shop Drawings with design calculations and assumptions for following items:
  - 1. Performance requirements and analysis data showing compliance with performance criteria.
  - 2. Data for water supply, hazard assessment, and system design concept.
  - 3. Hydraulic calculations to substantiate compliance with hydraulic design requirements.
  - 4. Hydrant flow test report with static and residual pressures.
- E. Field Quality-Control Submittals: Indicate results of Contractor-furnished tests and inspections.
- F. Qualifications Statements:
  - 1. Submit qualifications for manufacturer, installer, and licensed professional.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Section 017000 - Execution and Closeout Requirements: Requirements for submittals.
- B. Project Record Documents:
  - 1. Record actual locations of sprinklers and deviations of piping from Drawings.
  - 2. Indicate drain and test locations.

#### 1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Section 017000 - Execution and Closeout Requirements: Requirements for maintenance materials.
- B. Extra Stock Materials: Furnish extra sprinklers according to NFPA 13.
- C. Tools:
  - 1. Furnish suitable operating wrenches for each sprinkler type.
  - 2. Furnish metal storage cabinet located adjacent to main riser.

## 1.7 QUALITY ASSURANCE

- A. Perform Work in accordance with NFPA 13 and requirements of the authority having jurisdiction.
- B. Maintain one copy of each standard affecting Work of this Section on Site.

## 1.8 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years' documented experience.
- B. Installer: Company specializing in performing Work of this Section with minimum three years' documented experience.
- C. Licensed Professional: Professional engineer with National Institute for Certification in Engineering Technologies (NICET) Level 3 certification in water-based systems layout and experienced in design of specified Work, employed by the Installer, and licensed at Project location.

## 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Section 016000 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.
- B. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.
- C. Store materials according to manufacturer instructions.
- D. Protection:
  - 1. Furnish piping with temporary inlet and outlet caps until installation.
  - 2. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
  - 3. Provide additional protection according to manufacturer instructions.

## 1.10 EXISTING CONDITIONS

- A. Field Measurements:
  - 1. Verify field measurements prior to fabrication.
  - 2. Indicate field measurements on Shop Drawings.

## 1.11 WARRANTY

- A. Section 017000 - Execution and Closeout Requirements: Requirements for warranties.

## PART 2 - PRODUCTS

## 2.1 SYSTEM DESCRIPTION

- A. Provide coverage for entire building.
- B. Occupancy Requirements: Hydraulically design system to NFPA 13 for hazard level appropriate for occupancy and use of spaces. For bidding purposes, assume all commodities stored in warehouse can be classified as Class I, II, or III.
- C. Volume and Pressure of Water Supply:
  - 1. Source: Hydrant water-flow test data.
- D. Connection Interfaces: Building automatic fire-alarm and smoke-detection system.
- E. Fire-Department Connections: At locations as indicated on Drawings.

## 2.2 SPRINKLERS

- A. Suspended-Ceiling Type:
  - 1. Type: Recessed pendant sprinklers, with matching clamp-on or screw-on escutcheon plate.
  - 2. Materials:
    - a. Sprinkler: Brass and bronze.
    - b. Escutcheon Plate: Carbon steel.
  - 3. Fusible Link:
    - a. Type: Glass bulb.
    - b. Temperature Rating: As required for specific area hazard.
  - 4. Finishes:
    - a. Sprinkler and Escutcheon Plate: Polyester.
    - b. Color: White.
- B. Exposed-Area Type:
  - 1. Type: Upright sprinklers.
  - 2. Material: Brass.
  - 3. Fusible Link:
    - a. Type: Fusible solder or glass bulb.
    - b. Temperature Rating: As required for specific area hazard.
  - 4. Finishes:

- a. Sprinkler: Brass.

C. Sidewall Type:

1. Type: Recessed, horizontal sidewall with matching clamp-on or screw-on escutcheon plate.
2. Materials:
  - a. Sprinkler: Brass and bronze.
  - b. Escutcheon Plate: Carbon steel.
3. Fusible Link:
  - a. Type: Glass bulb.
  - b. Temperature Rating: As required for specific area hazard.
4. Finishes:
  - a. Sprinkler and Escutcheon Plate: Polyester.
  - b. Color: White.

## 2.3 PIPING SPECIALTIES

~~A. Wet Pipe Sprinkler Check Valve:~~

- ~~1. Type: Swing check.~~
- ~~2. Ductile iron body and cover, stainless steel clapper, spring and hinge shaft, resilient elastomer seal facing on spring loaded clapper.~~

- A. Double Check Valve Detector Assemblies: Comply with ASSE 1015 or AWWA C510; Lead-free, stainless steel body with corrosion resistant internal parts and stainless steel springs; two independently operating check valves; bypass assembly consisting of meter, double check valve assembly, and test cocks; OS&Y gate valves with flanged or grooved connections. Contractor shall confirm type of device required by Ute Water Conservancy District.

B. Water-Flow Switch:

1. Description: Vane type for mounting horizontally or vertically.
2. Contacts:
  - a. Quantity: Two.
  - b. Rating: 10 A at 125 V ac, and 2.5 A at 24 V dc.

C. Fire-Department Connections:

1. Description: Flush-mounted wall type, constructed of brass.
2. Outlets:
  - a. Type: Two way or one way, as required by NFPA 13..
  - b. End Connections:

- 1) Minimum Size: 2-1/2 inches.
  - 2) Fittings: Threaded swivel type to match fire-department hardware.
- c. Furnish threaded cap and chain of matching material and finish.
3. Drain:
- a. Type: Automatic drip.
  - b. Size: 3/4 inch.
  - c. Outlet: Connected to building drain.
4. Label: SPRINKLER - FIRE-DEPARTMENT CONNECTION.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Section 017000 - Execution and Closeout Requirements: Requirements for installation examination.
- B. Verify that water-flow, pressure, supervisory, and alarm devices are installed and connected to automatic fire-alarm and smoke-detection system.

#### 3.2 INSTALLATION

- A. Comply with NFPA 13.
- B. Clearances:
  1. Locate fire-department connection, check valve, and automatic drip with sufficient clearance from walls, obstructions, or adjacent fire-department connections, to allow full swing of fire-department wrench handle.
- C. Piping:
  1. Minimize obstructions with other Work.
  2. Where possible, install in concealed spaces above finished ceilings.
- D. Center sprinklers in one direction only in ceiling tile with location in other direction variable, dependent upon spacing and coordination with ceiling elements.
- E. Backflow Preventer:
  1. Install approved backflow preventer assembly at sprinkler system water source connection in mechanical room. Contractor shall confirm type of device required by Ute Water Conservancy District.

3.3 FIELD QUALITY CONTROL

- A. Section 014000 - Quality Requirements: Requirements for inspecting and testing.
- B. Section 017000 - Execution and Closeout Requirements: Requirements for testing, adjusting, and balancing.
- C. Hydrostatic Testing:
  - 1. Comply with NFPA 13.
  - 2. Witnessing: Authority having jurisdiction.

3.4 CLEANING

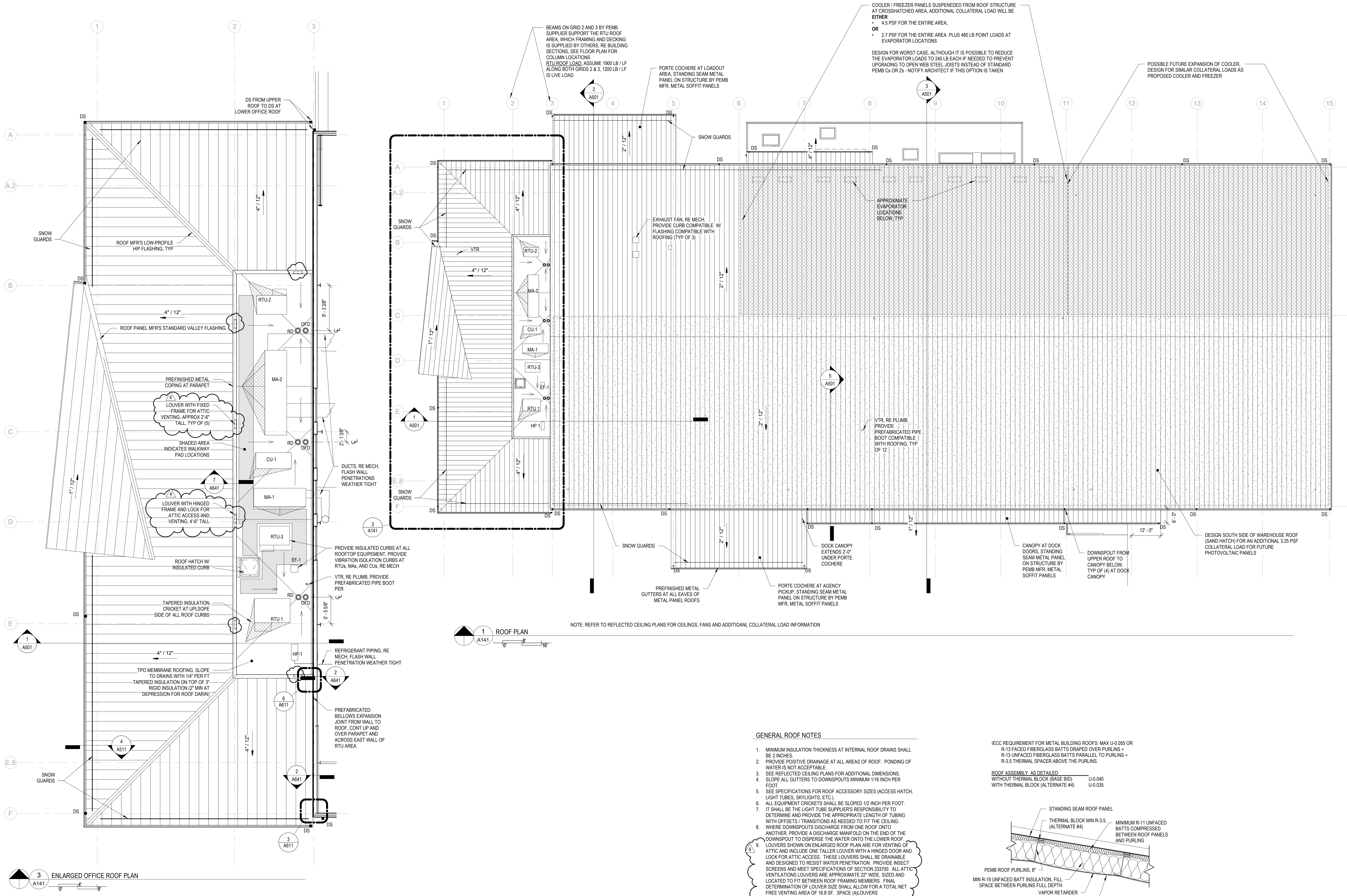
- A. Section 017000 - Execution and Closeout Requirements: Requirements for cleaning.
- B. Flush entire piping system of foreign matter.

3.5 PROTECTION

- A. Section 017000 - Execution and Closeout Requirements: Requirements for protecting finished Work.
- B. Apply masking tape or paper cover to protect concealed sprinklers, cover plates, and sprinkler escutcheons not receiving field paint finish.
- C. Remove protection after painting and replace painted sprinklers with new.

END OF SECTION 211313

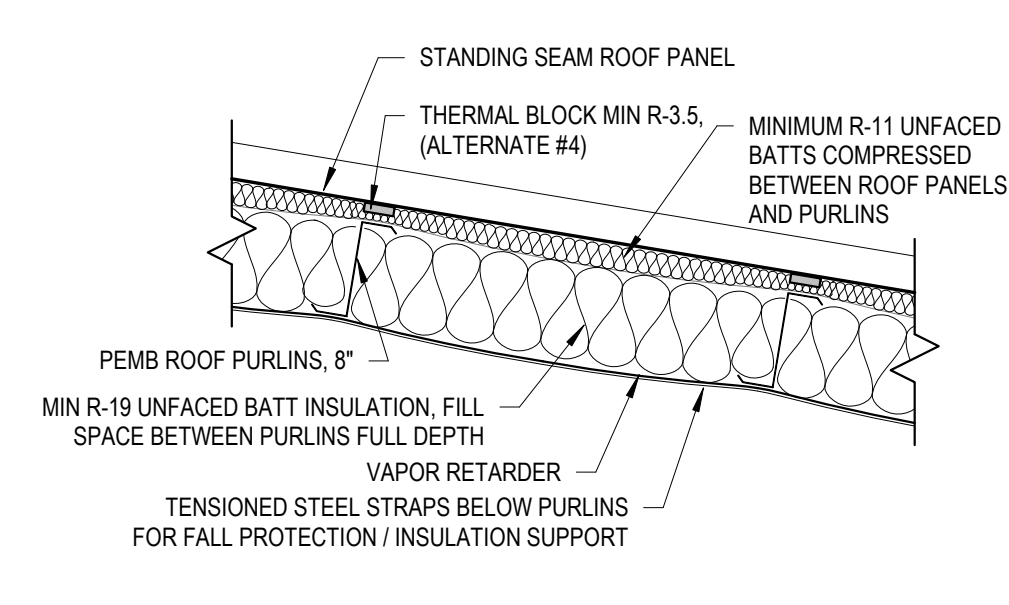




- GENERAL ROOF NOTES**
- MINIMUM INSULATION THICKNESS AT INTERNAL ROOF DRAINS SHALL BE 2 INCHES.
  - PROVIDE POSITIVE DRAINAGE AT ALL AREAS OF ROOF. PONDING OF WATER IS NOT ACCEPTABLE.
  - SEE REFLECTED CEILING PLANS FOR ADDITIONAL DIMENSIONS.
  - SLOPE ALL GUTTERS TO DOWNSPOUTS MINIMUM 1/16 INCH PER FOOT.
  - SEE SPECIFICATIONS FOR ROOF ACCESSORY SIZES (ACCESS HATCH, LIGHT TUBES, SKYLIGHTS, ETC.).
  - ALL EQUIPMENT CRICKETS SHALL BE SLOPED 1/2 INCH PER FOOT.
  - IT SHALL BE THE LIGHT TUBE SUPPLIER'S RESPONSIBILITY TO DETERMINE AND PROVIDE THE APPROPRIATE LENGTH OF TUBING WITH OFFSETS / TRANSITIONS AS NEEDED TO FIT THE CEILING.
  - WHERE DOWNSPOUTS DISCHARGE FROM ONE ROOF ONTO ANOTHER, PROVIDE A DISCHARGE MANIFOLD ON THE END OF THE DOWNSPOUT TO DISPERSE THE WATER ONTO THE LOWER ROOF.
  - LOUVERS SHOWN ON ENLARGED ROOF PLAN ARE FOR VENTING OF ATTIC AND INCLUDE ONE TALLER LOUVER WITH A HINGED DOOR AND LOCK FOR ATTIC ACCESS. THESE LOUVERS SHALL BE DRAINABLE AND DESIGNED TO RESIST WATER PENETRATION. PROVIDE INSECT SCREENS AND MEET SPECIFICATIONS OF SECTION 230701. ALL ATTIC VENTILATIONS LOUVERS ARE APPROXIMATE 22" WIDE, SIZED AND LOCATED TO FIT BETWEEN ROOF FRAMING MEMBERS. FINAL DETERMINATION OF LOUVER SIZE SHALL ALLOW FOR A TOTAL NET FREE VENTING AREA OF 16.8 SF. SPACE (4 LOUVERS) APPROXIMATELY EQUALLY ACROSS WEST WALL WITH (1) EACH ON THE NORTH AND SOUTH WALLS OF THE RTU AREA.

IECC REQUIREMENT FOR METAL BUILDING ROOFS: MAX U-0.055 OR R-13 FACED FIBERGLASS BATTS DRAPED OVER PURLINS + R-13 UNFACED FIBERGLASS BATTS PARALLEL TO PURLINS + R-13 THERMAL SPACER ABOVE THE PURLINS.

ROOF ASSEMBLY AS DETAILLED  
WITHOUT THERMAL BLOCK (BASE BID) U-0.040  
WITH THERMAL BLOCK (ALTERNATE #4) U-0.035



**2 TYPICAL ROOF ASSEMBLY AT PEMB**  
A141

**FOOD BANK OF THE ROCKIES**

698 LONG ACRE DRIVE  
GRAND JUNCTION, COLORADO

**ROOF PLAN**

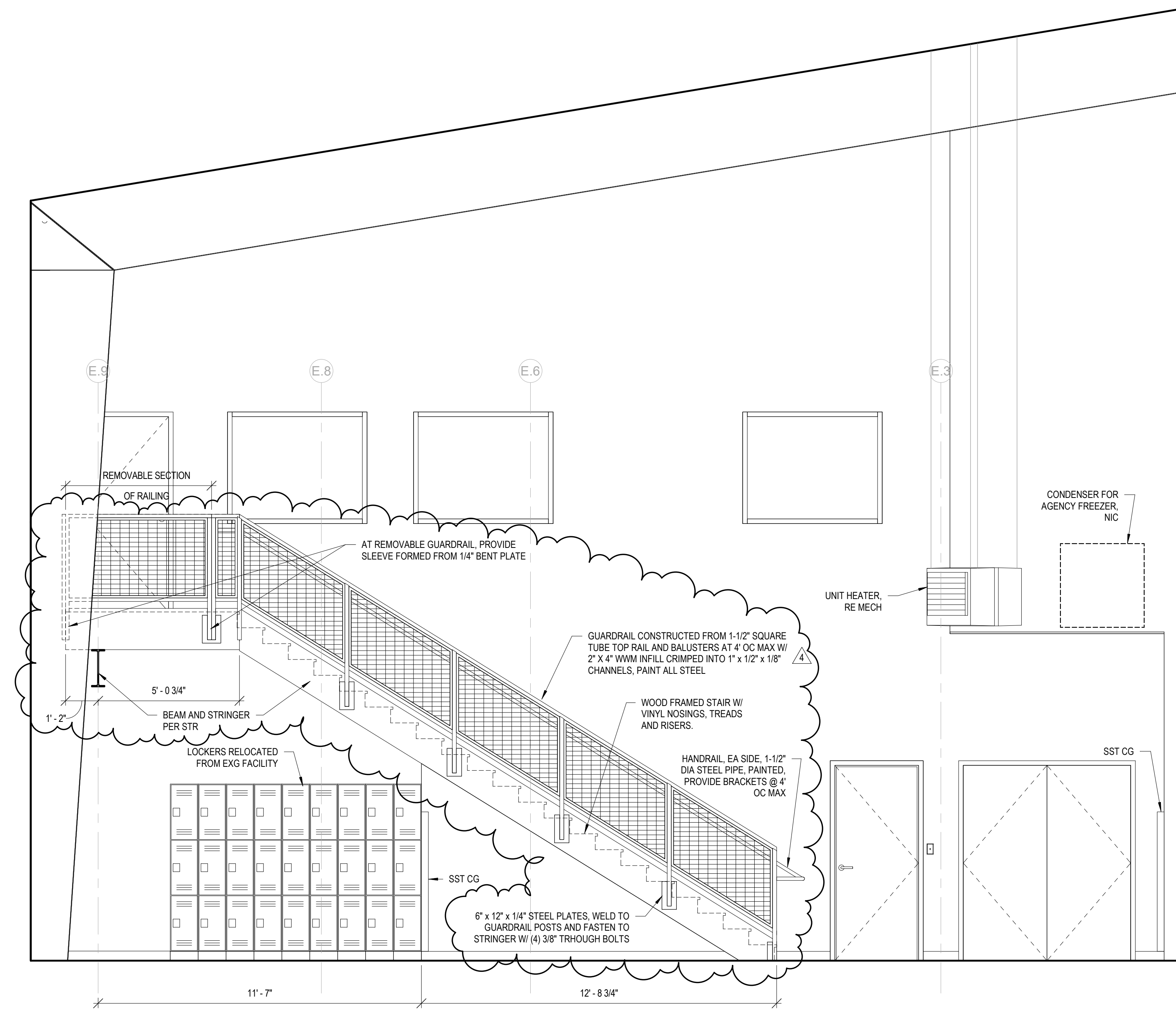
NO: ISSUED FOR: DATE:  
ADDENDUM #5 9/10/2021

100% CONSTRUCTION DOCUMENTS  
BID PACKAGE #4, ABOVE GROUND

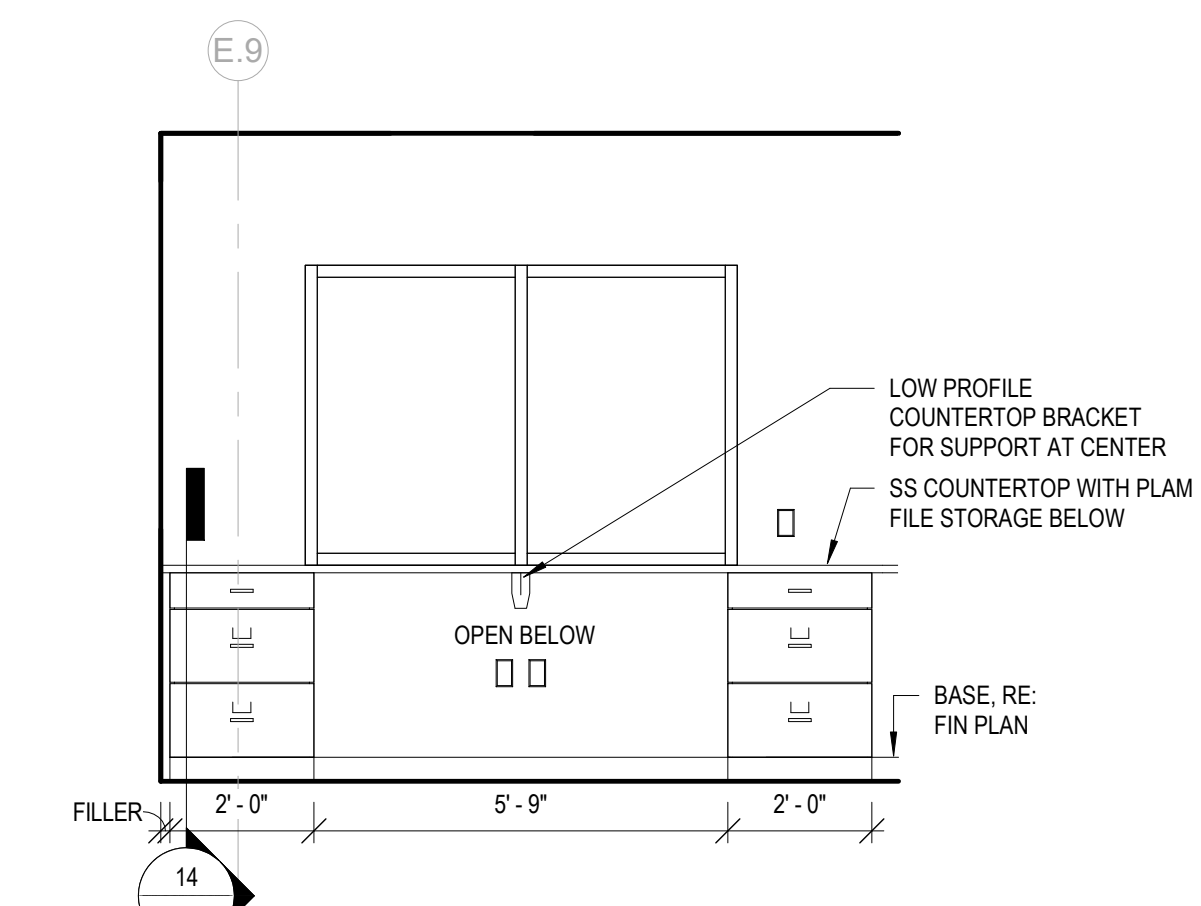
DATE: 8/25/2021 SHEET NO:

PROJECT NO: **A141**  
2108

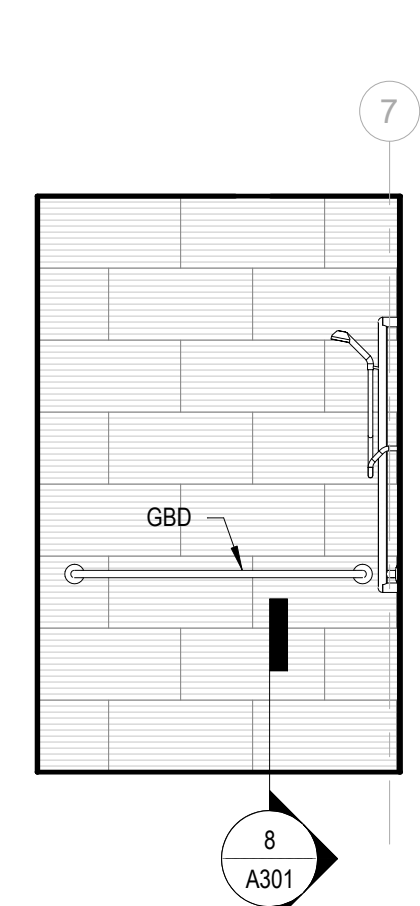
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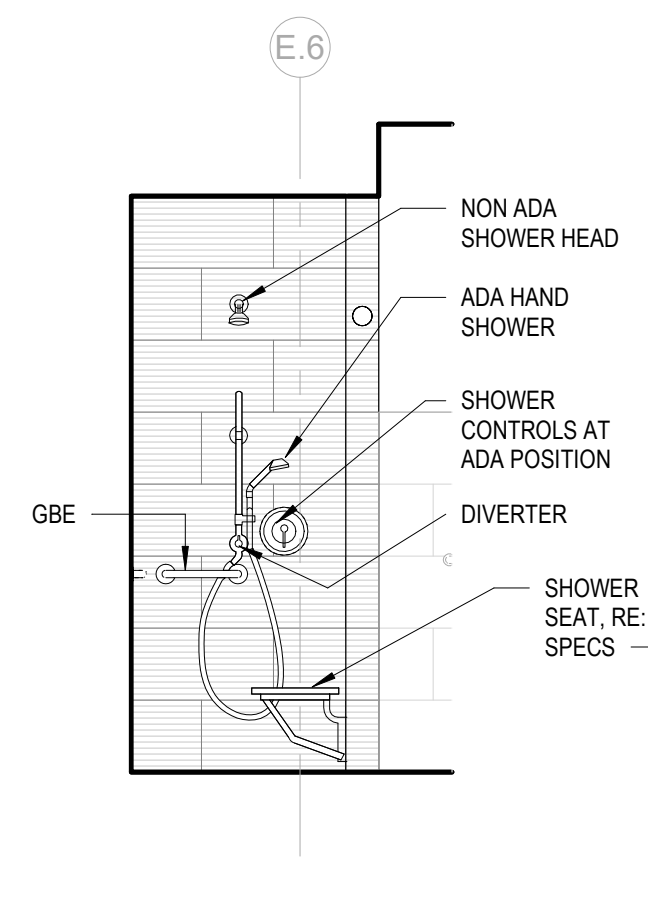
14 EMPLOYEE LOCKERS ELEVATION  
A403



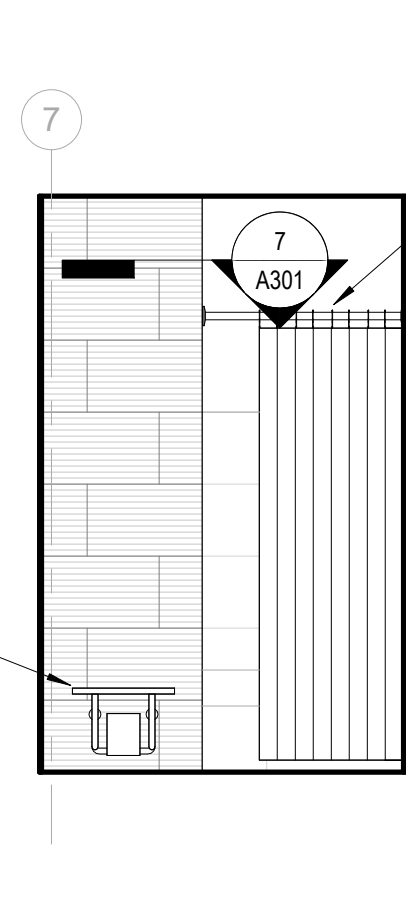
13 OFFICE 145 WEST INTERIOR ELEVATION  
A403



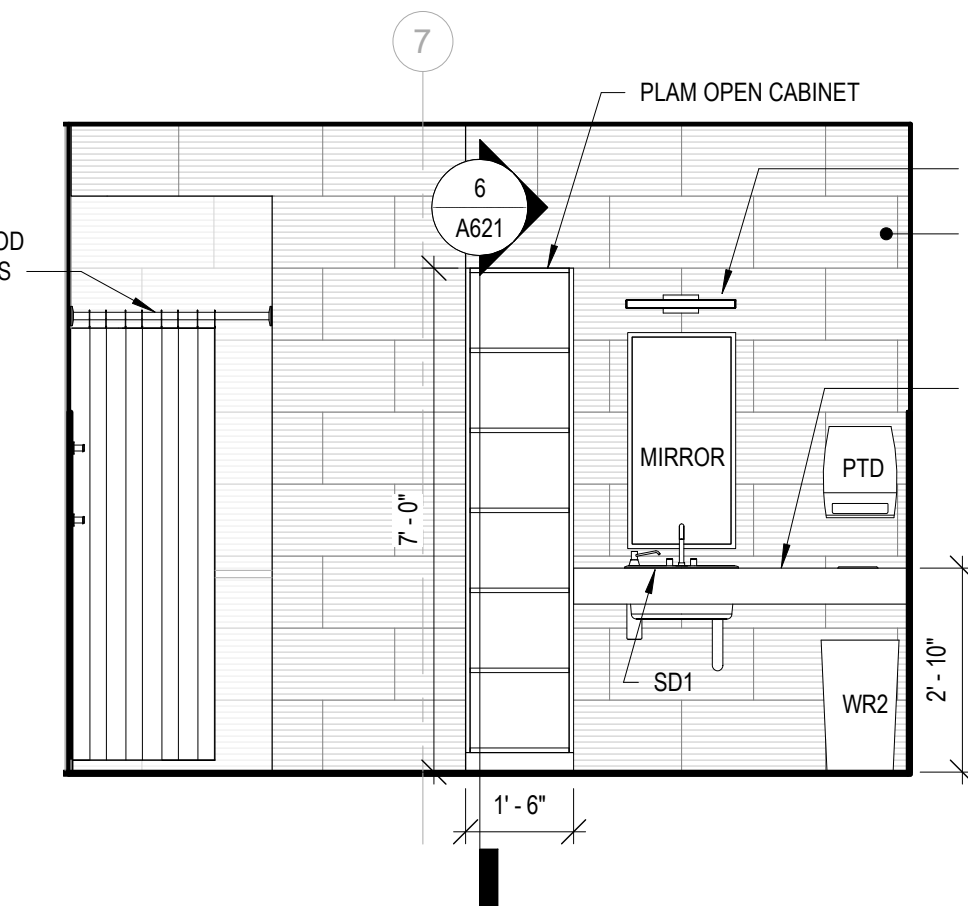
12 SHOWER 147 NORTH  
A403



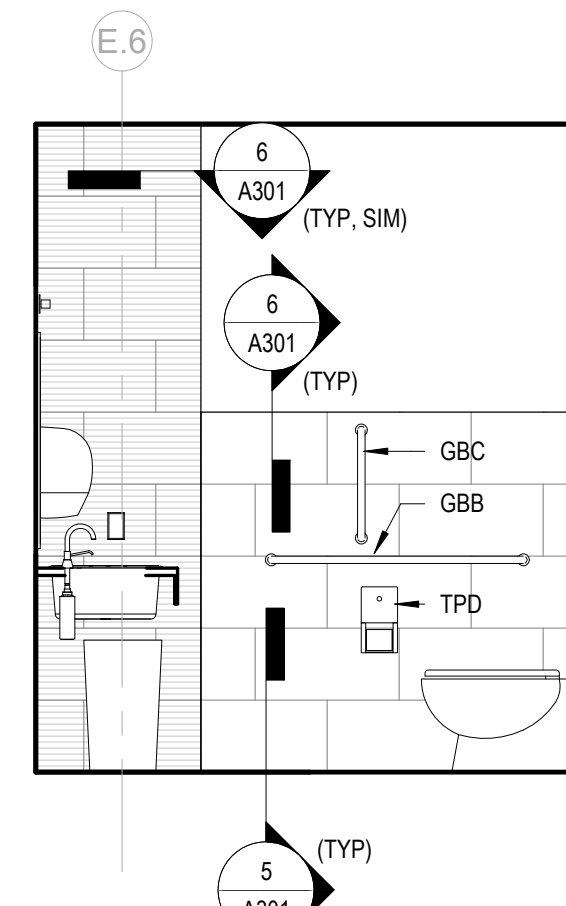
11 SHOWER 147 EAST  
A403



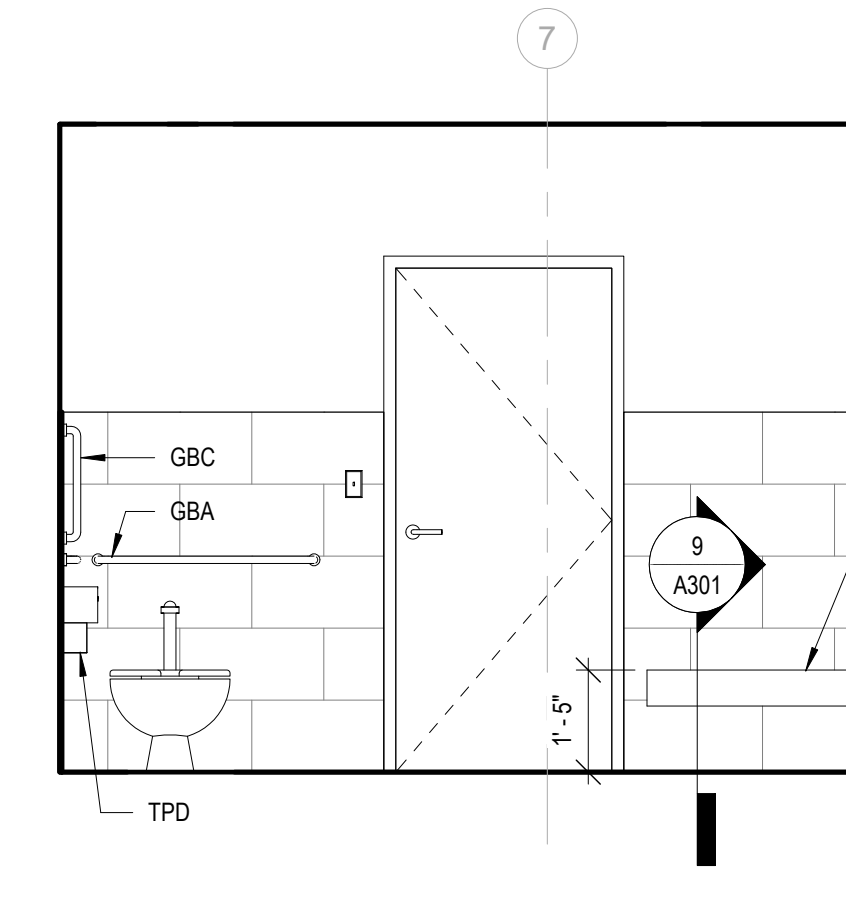
10 SHOWER 147 SOUTH  
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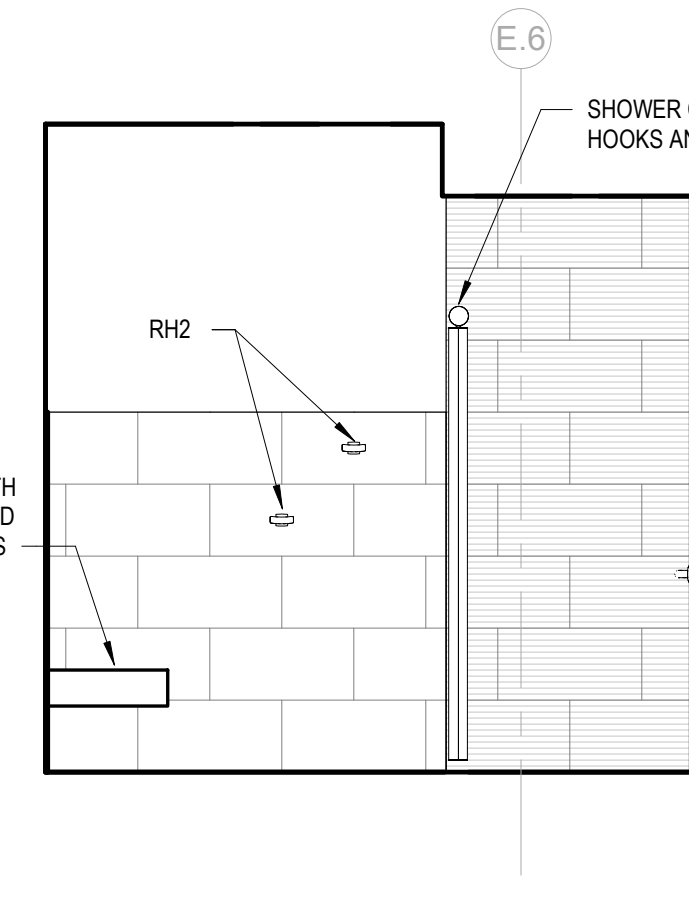
9 WC / SHOWER 147 NORTH INTERIOR ELEVATION  
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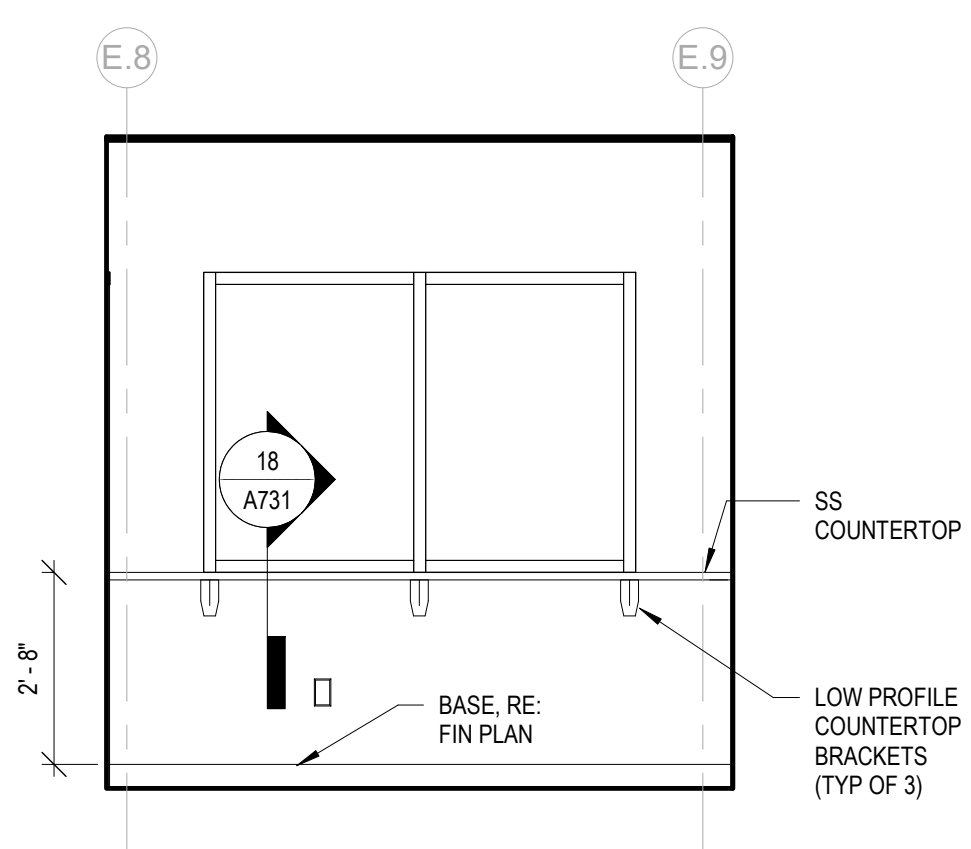
8 WC / SHOWER 147 EAST INTERIOR ELEVATION  
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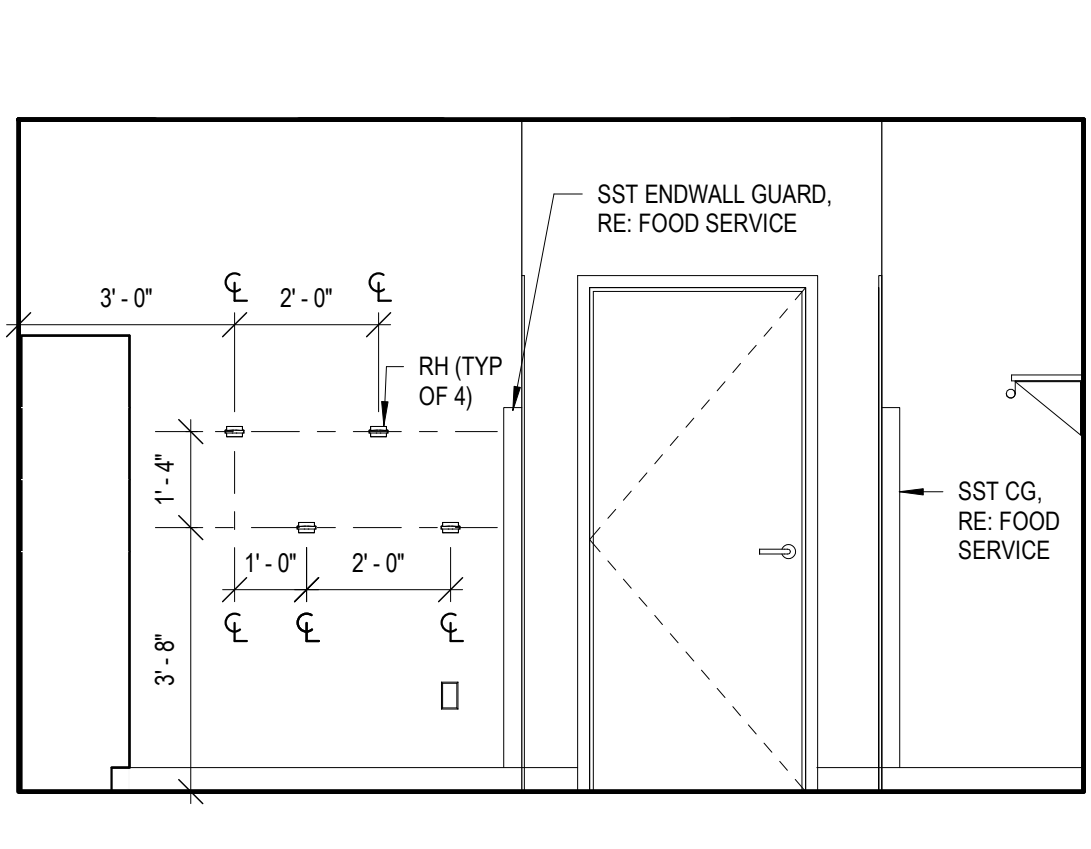
7 WC / SHOWER 147 SOUTH INTERIOR ELEVATION  
A403



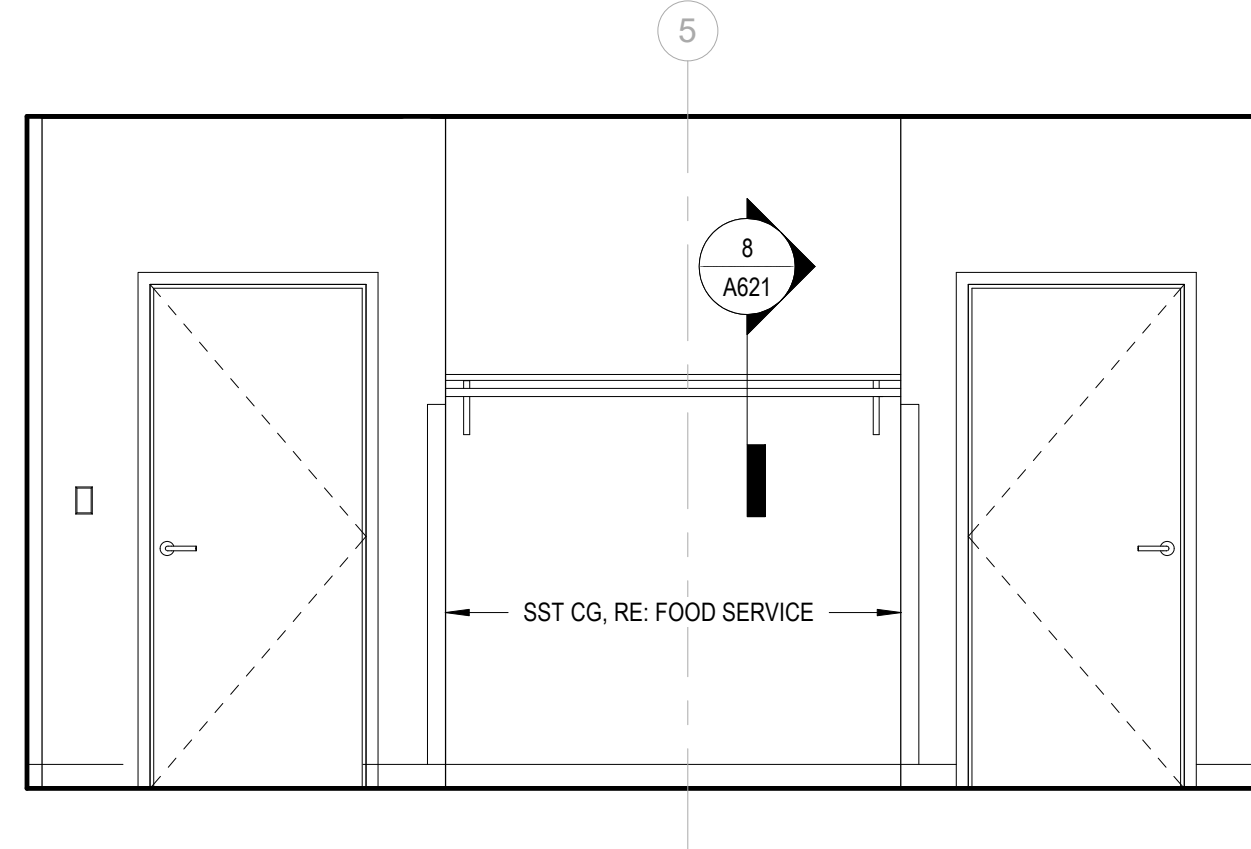
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A403



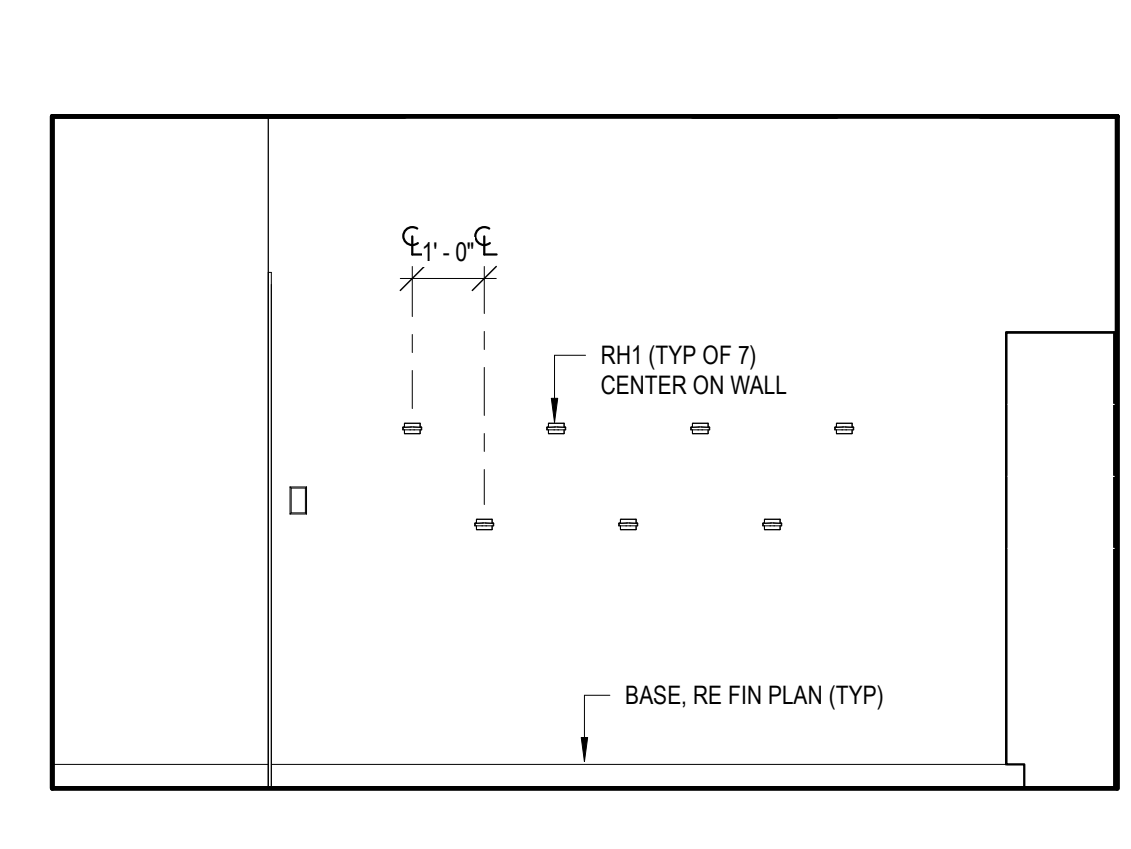
5 CHECK IN 148 EAST  
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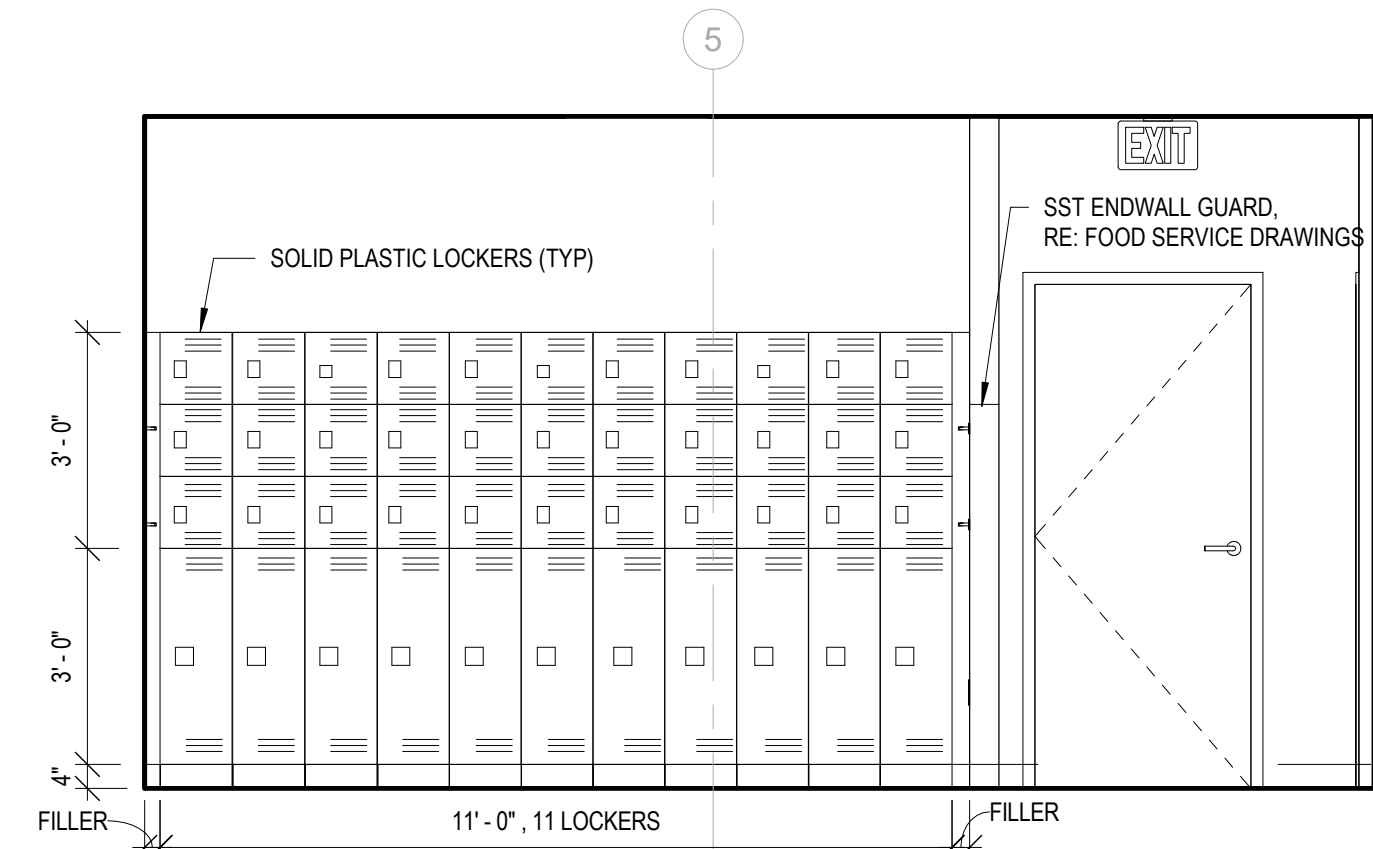
4 LOCKERS 131 WEST ELEVATION  
A403



3 LOCKERS 131 NORTH INTERIOR ELEVATION  
A403



2 LOCKERS 131 EAST INTERIOR ELEVATION  
A403



1 LOCKERS 131 SOUTH INTERIOR ELEVATION  
A403

### FOOD BANK OF THE ROCKIES

698 LONG ACRE DRIVE  
GRAND JUNCTION, COLORADO

### INTERIOR ELEVATIONS

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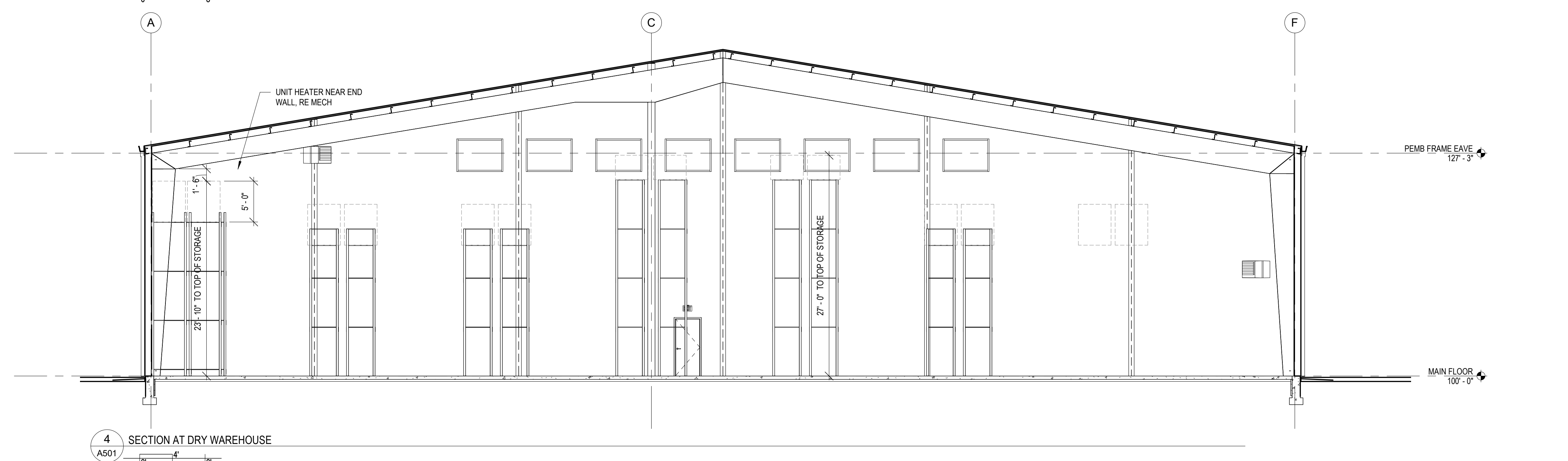
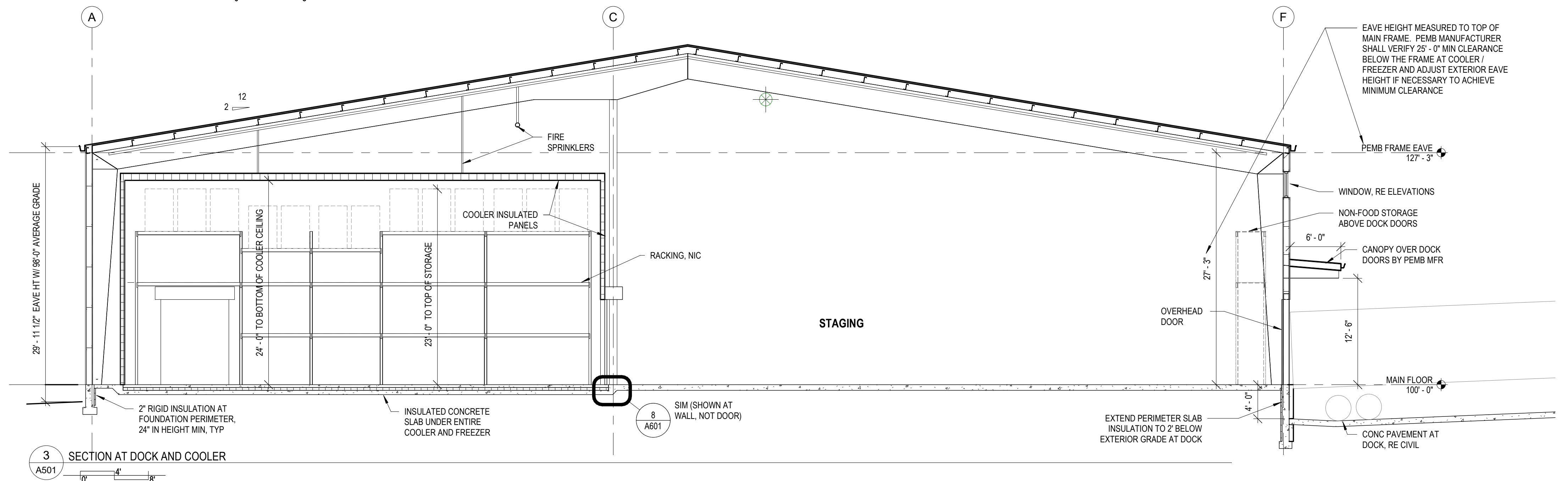
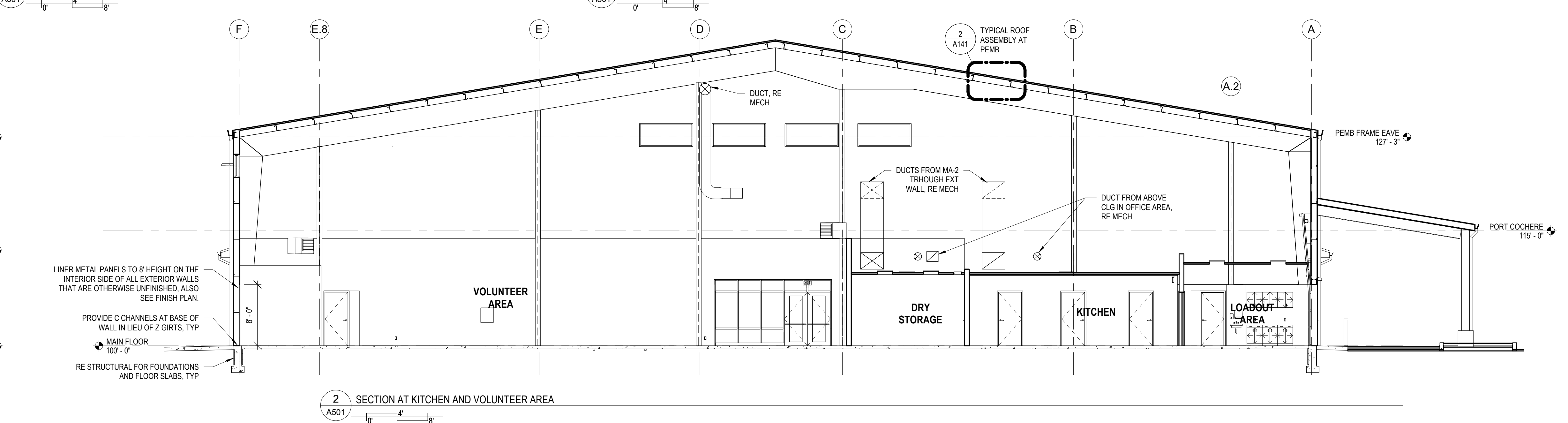
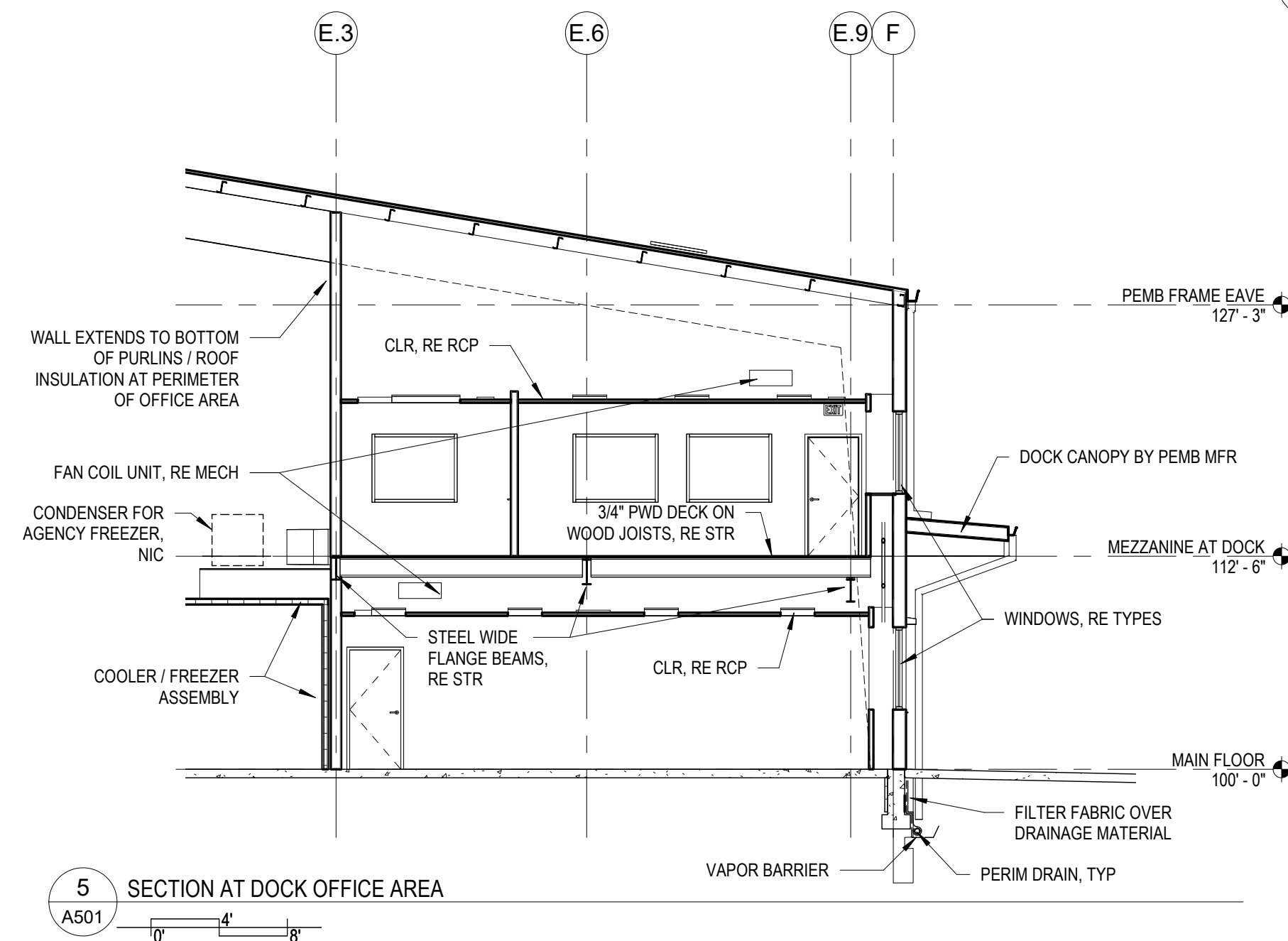
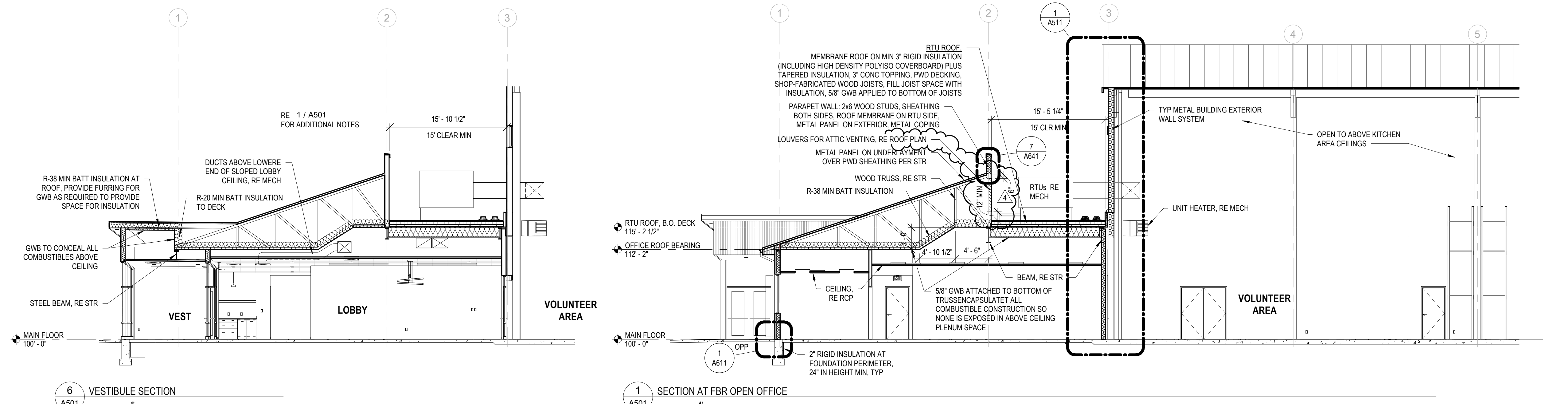
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437 Main Street  
Grand Junction, CO 81501  
970.242.6804  
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**FOOD BANK OF THE ROCKIES**

698 LONG ACRE DRIVE  
GRAND JUNCTION, COLORADO

**BUILDING SECTIONS**

NO.	ISSUED FOR:	DATE:
1	ADDENDUM #5	9/10/2021

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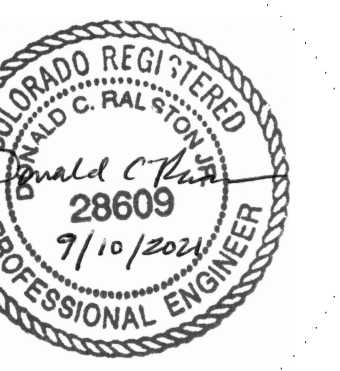
DATE: 8/25/2021 SHEET NO:

PROJECT NO: 2108

**A501**

PROJECT 14.14.20

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**GENERAL NOTES**

THE MECHANICAL CONTENT OF THE MECHANICAL DRAWINGS IS DIAGRAMMATIC AND NOT NECESSARILY TO SCALE.

THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO LOCATIONS OF DUCTWORK, EQUIPMENT PIPING, AND SUPPORTS IN ORDER TO COORDINATE WITH BUILDING CONSTRUCTION AND WORK OF OTHER TRADES.

ALL AIR TRANSFER OPENINGS IN WALLS ABOVE CEILINGS OF ROOMS SHALL INCLUDE A SOUND ATTENUATING ELBOW. SOUND ATTENUATING ELBOWS SHALL BE SIZED PER SOUND ATTENUATING ELBOW SCHEDULE.

ALL BRANCH DUCTS SERVING ONE DIFFUSER OR EXHAUST GRILLE SHALL INCLUDE A VOLUME DAMPER AT THE BRANCH DUCT POINT OF ORIGIN, UNLESS THE GRILLE OR DIFFUSER HAS BEEN SPECIFIED TO INCLUDE A BALANCING DAMPER.

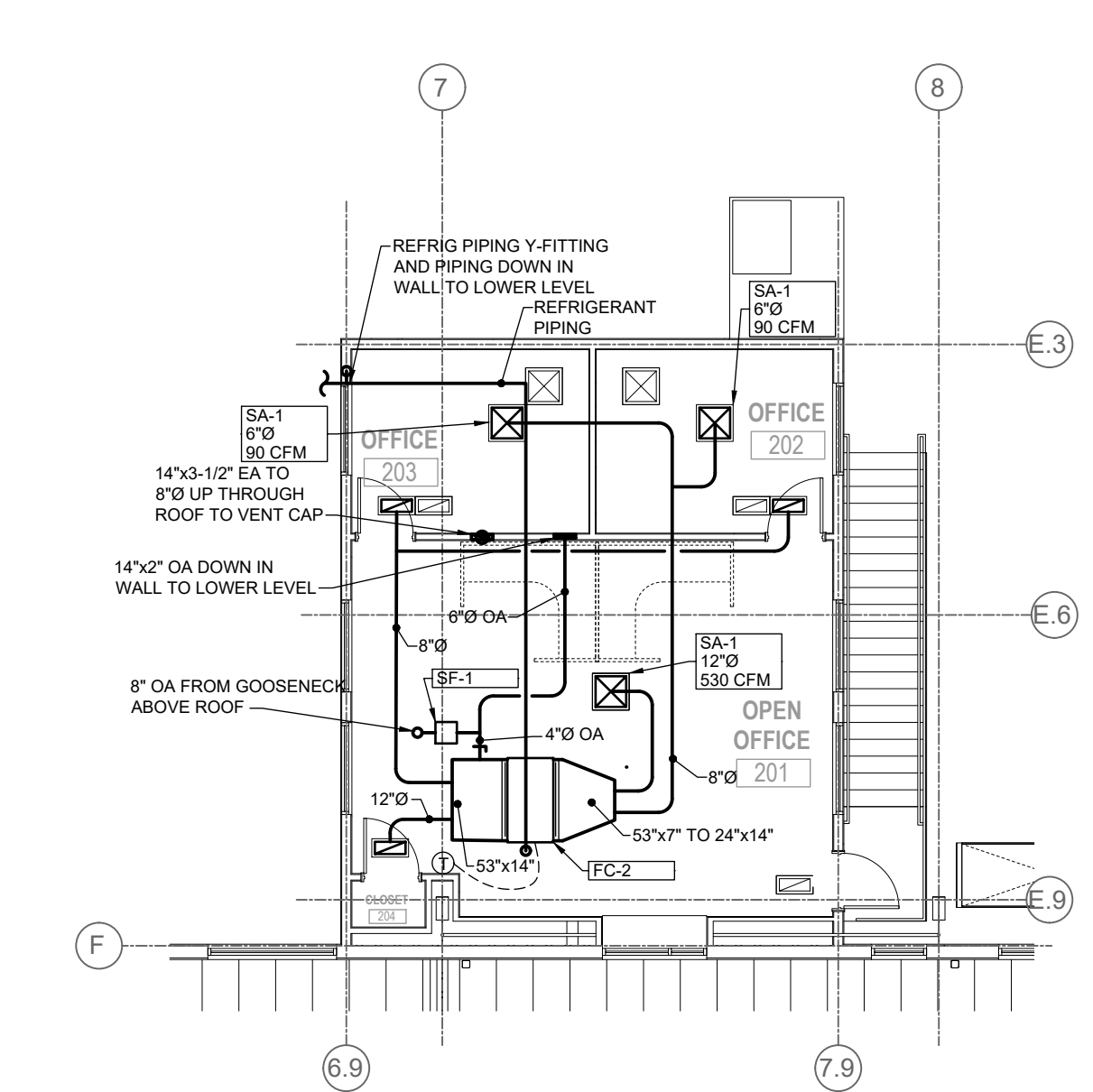
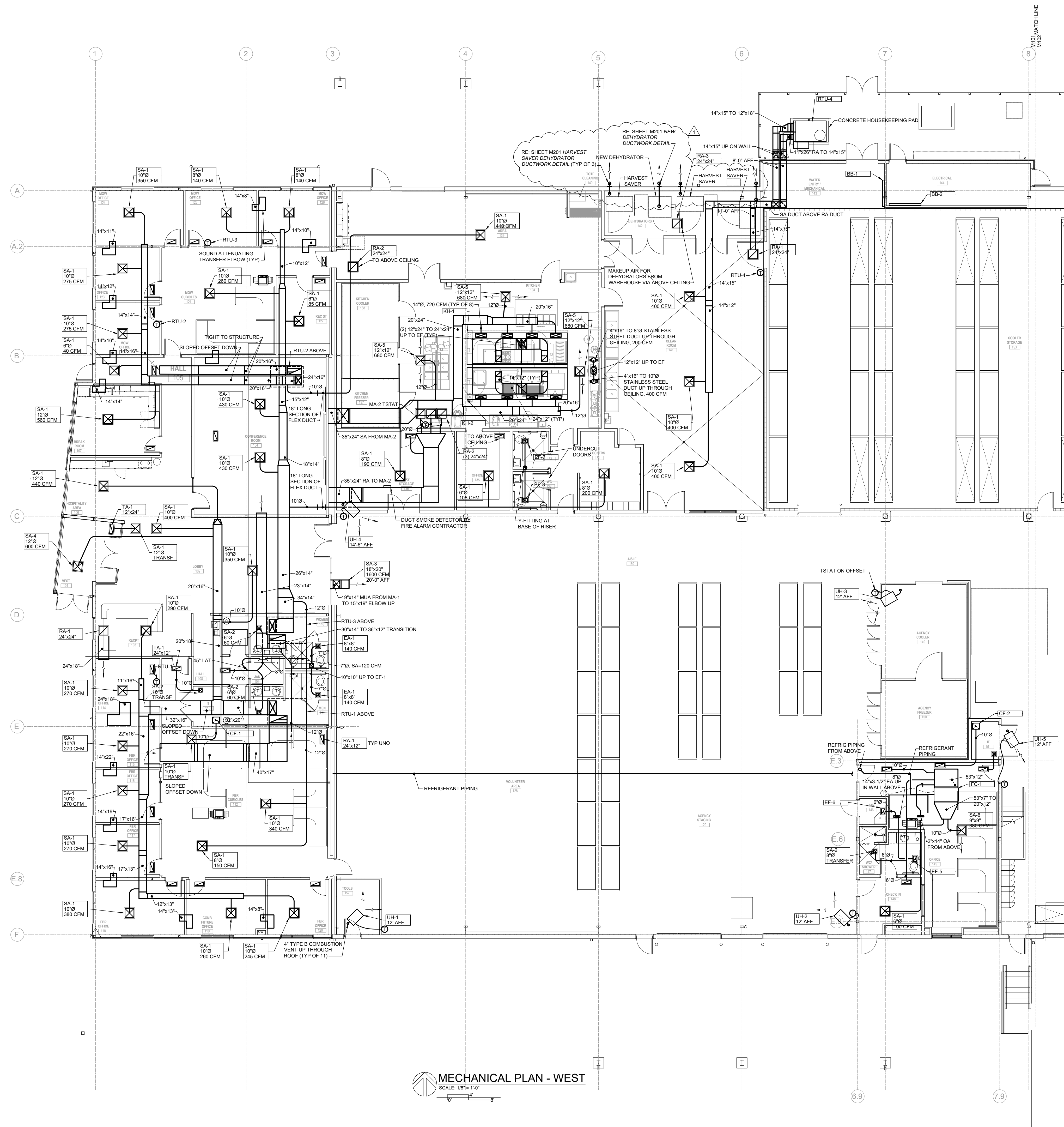
BRANCH DUCTS SERVING SINGLE DIFFUSERS SHALL BE SIZED TO MATCH THE DIFFUSER NECK SIZE UNLESS OTHERWISE INDICATED.

INDICATED DUCT DIMENSIONS ARE SHEET METAL DIMENSIONS.

RETURN GRILLES SHALL BE TYPE RA-1, 24"x12", UNLESS NOTED OTHERWISE.

REFER TO SCHEDULES AND SPECIFICATIONS FOR EQUIPMENT AND MATERIALS OF CONSTRUCTION.

ROUND DUCTS ARE INDICATED USING SINGLE LINE.



**FOOD BANK OF THE ROCKIES**

698 LONG ACRE DRIVE  
GRAND JUNCTION, COLORADO

**MAIN LEVEL  
MECHANICAL PLAN -  
WEST & SECOND  
FLOOR OFFICE**

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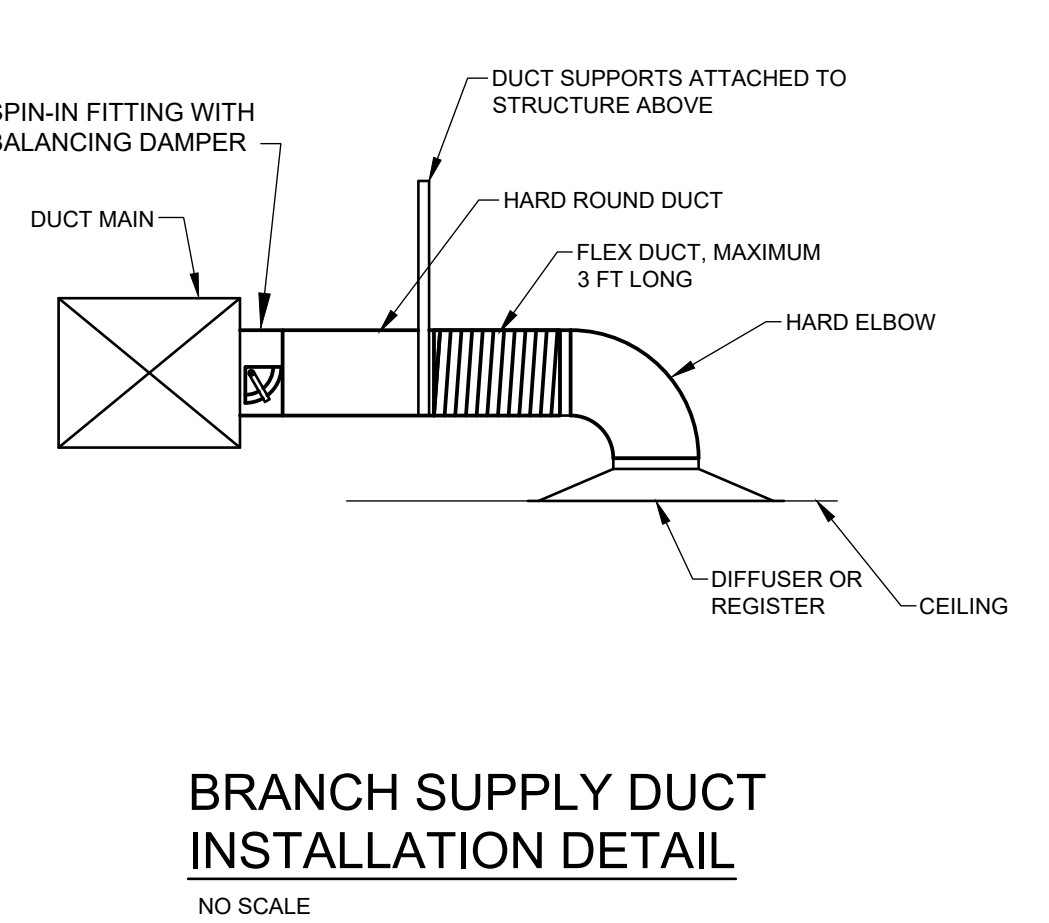
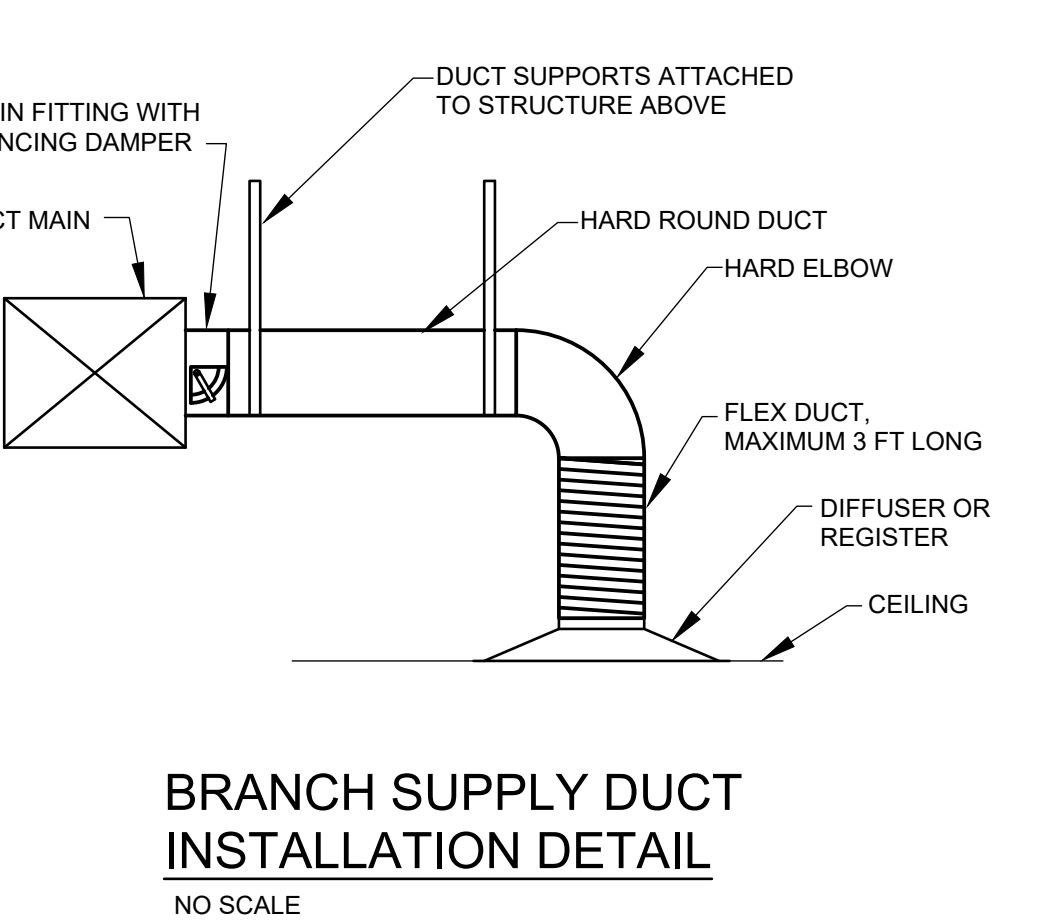
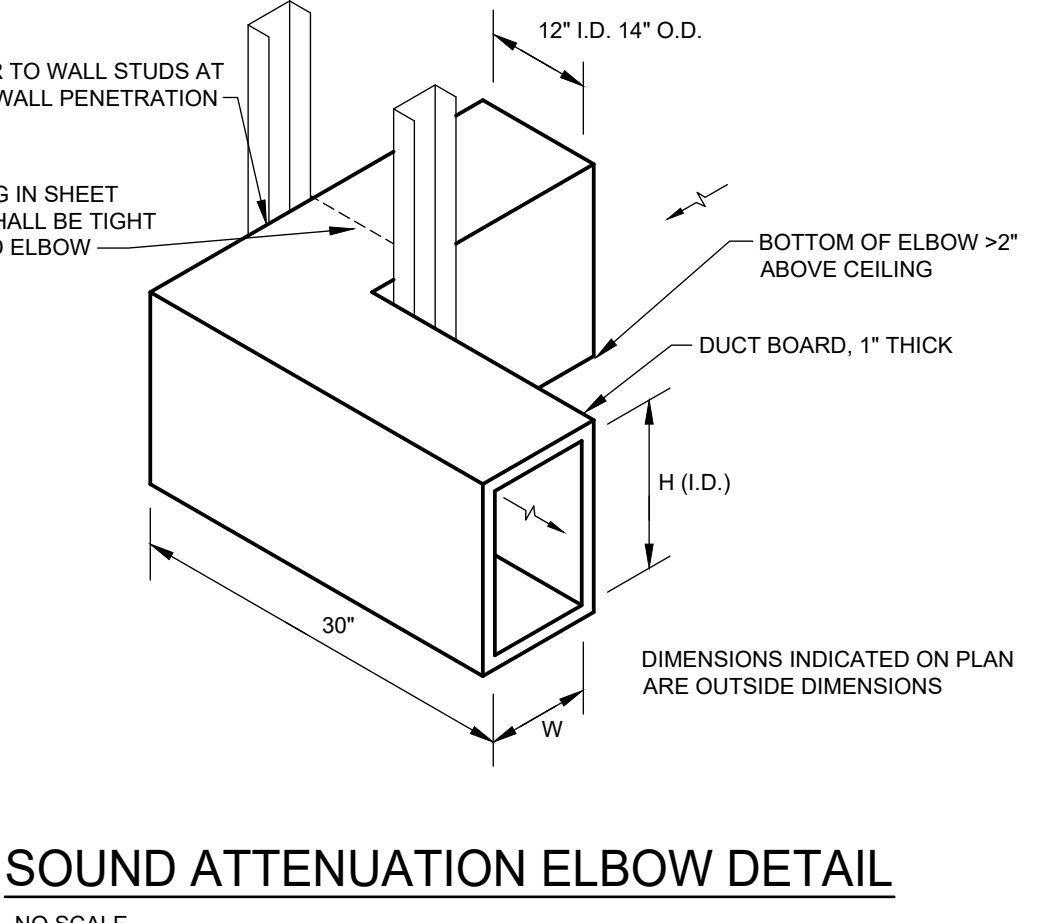
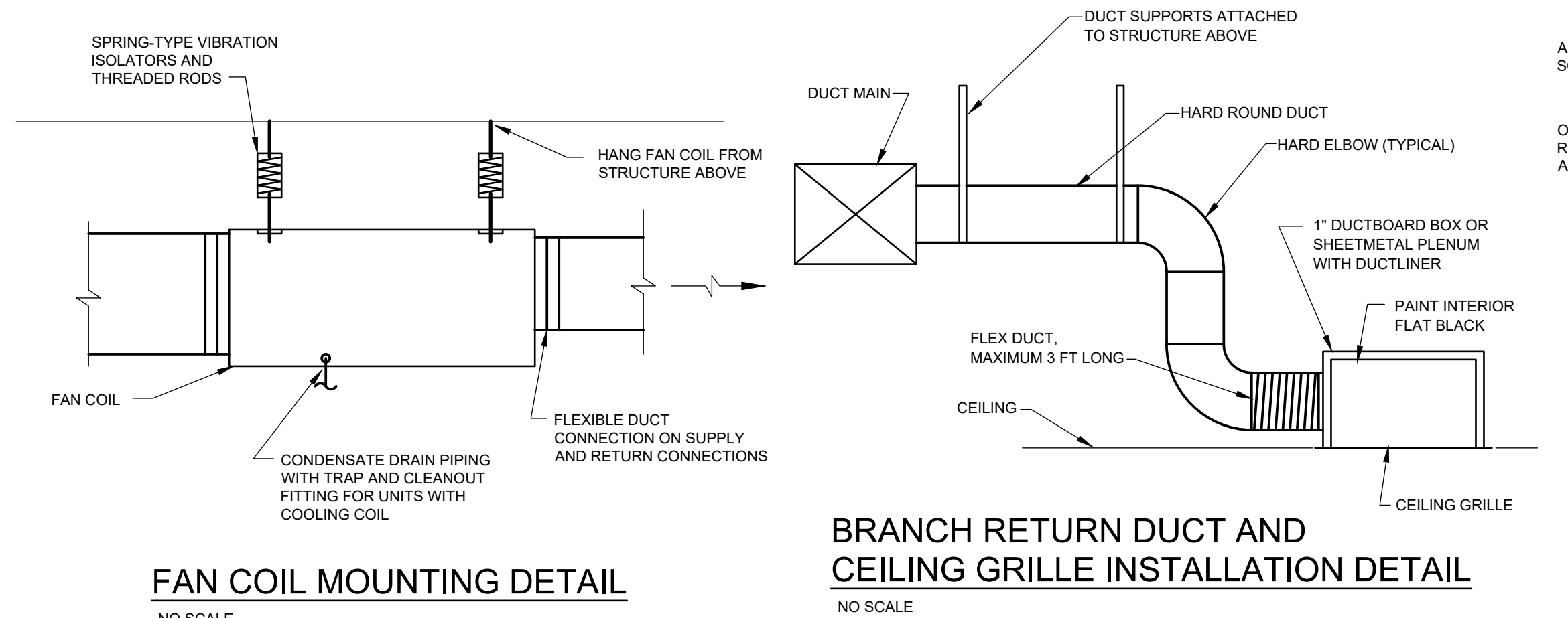
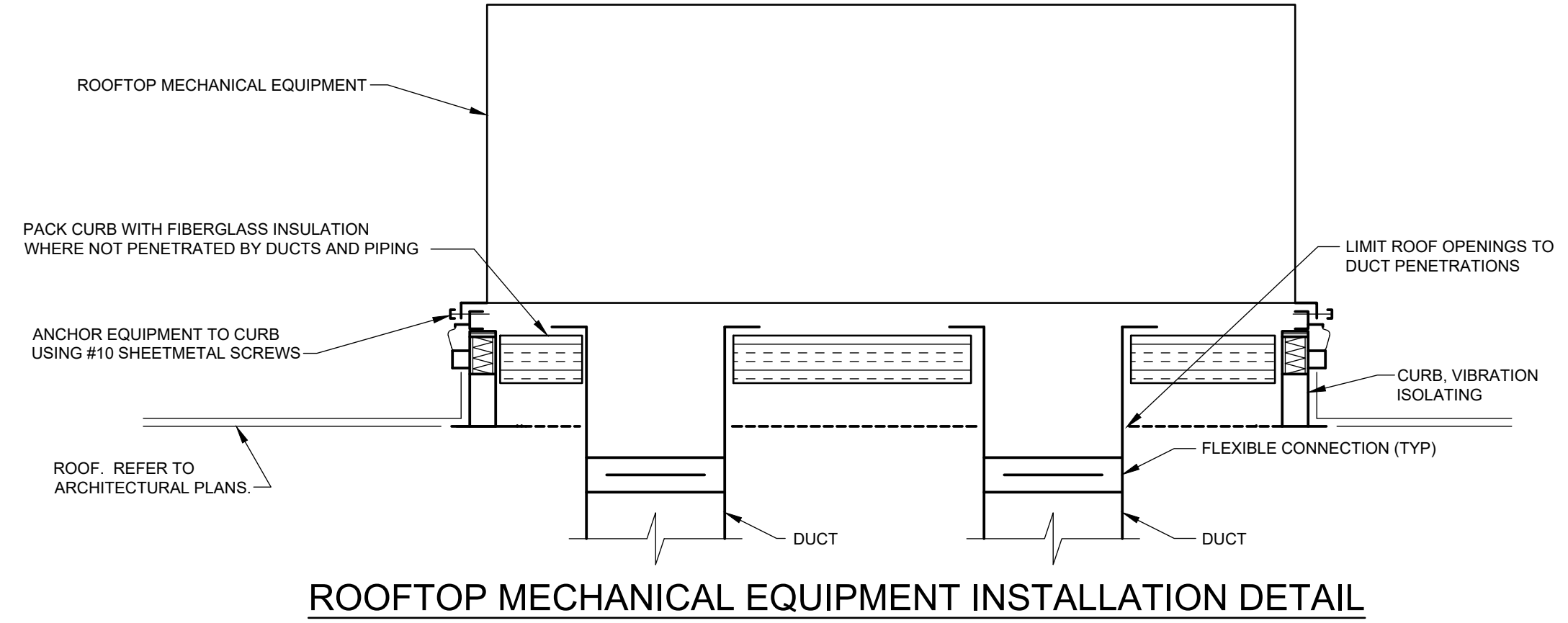
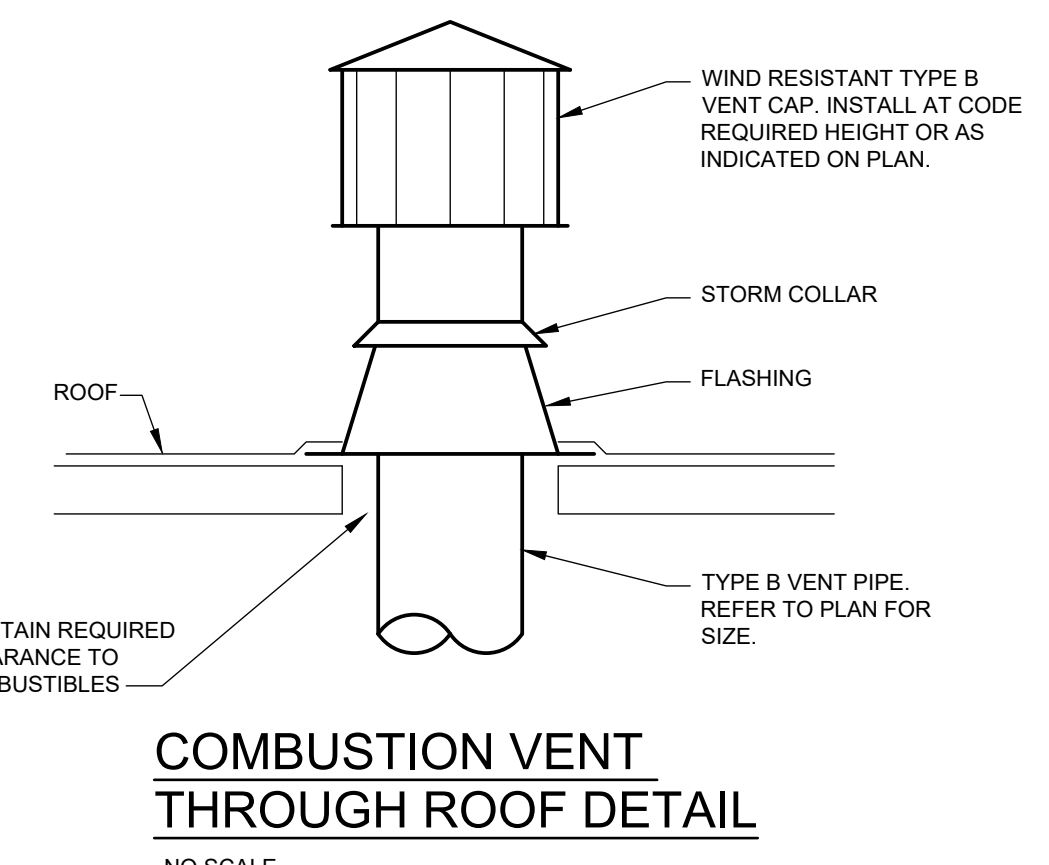
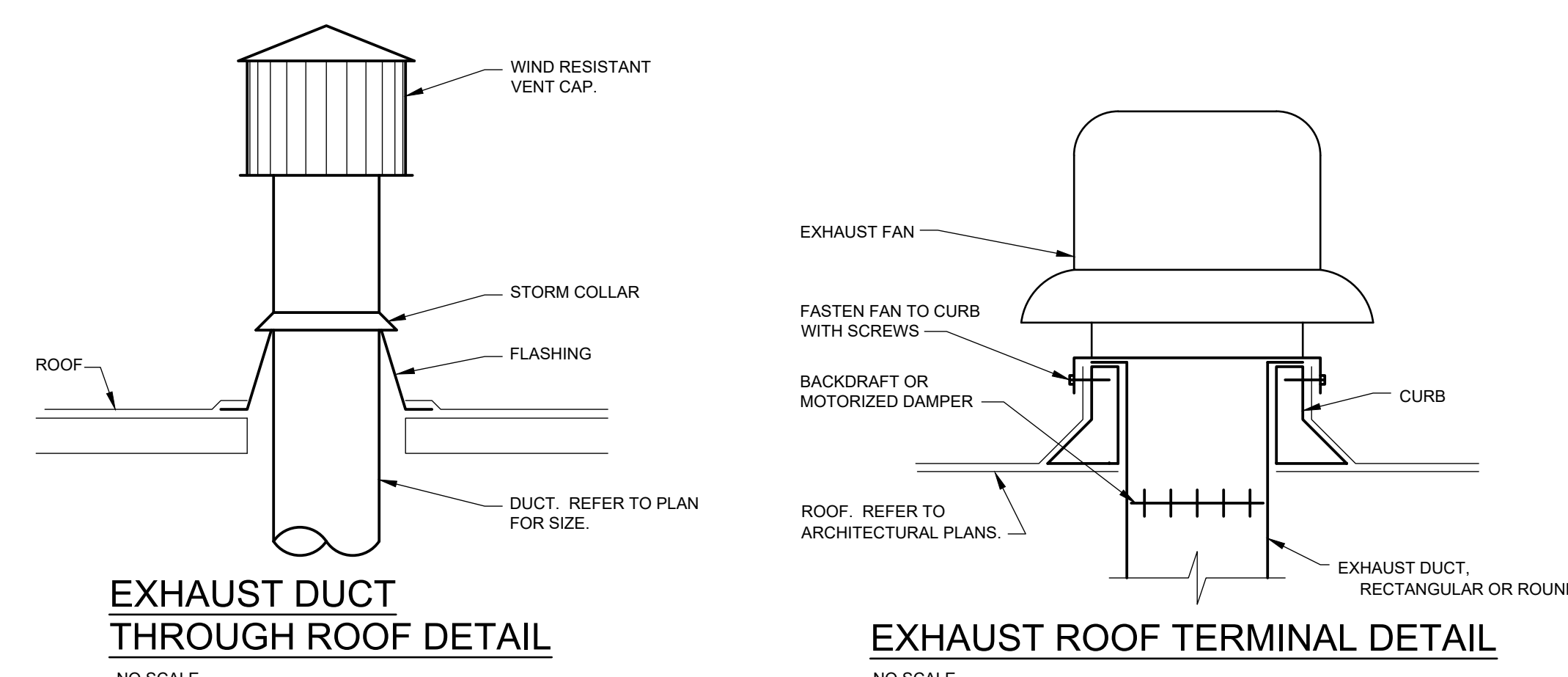
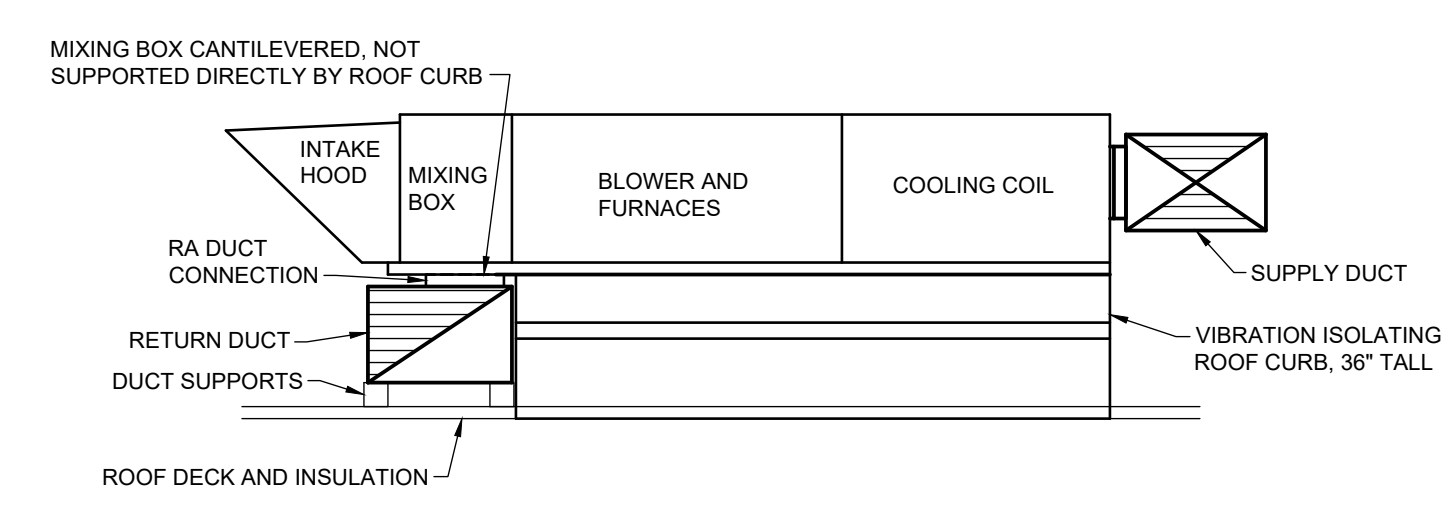
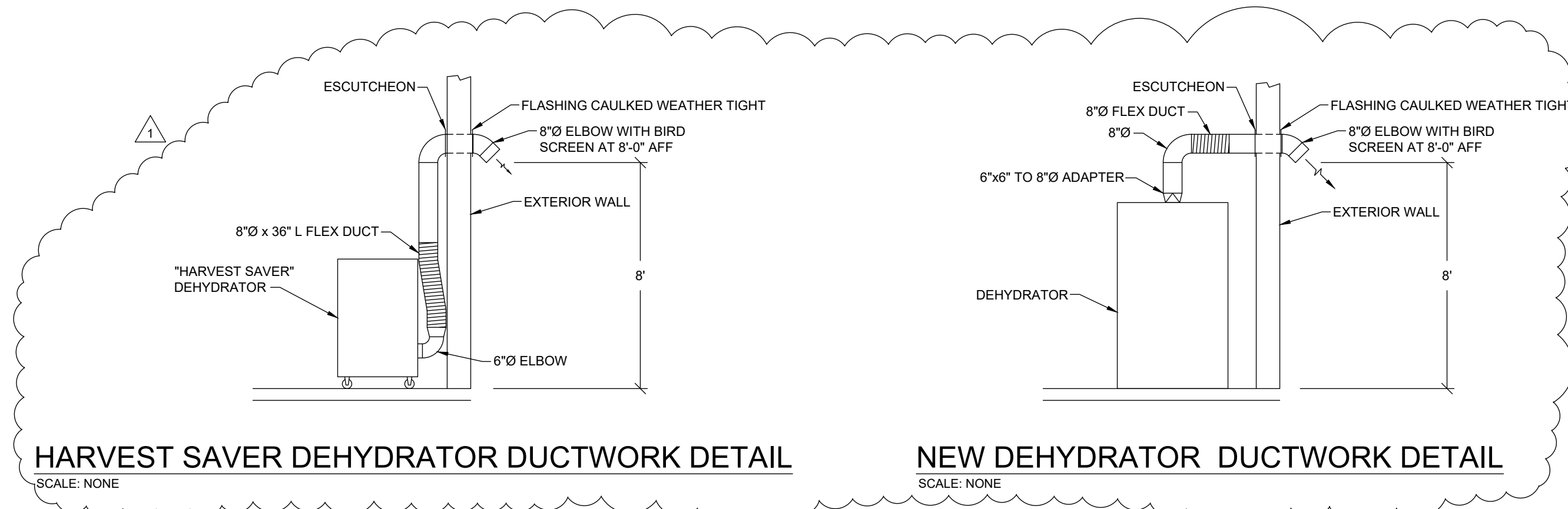
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DATE: 08/25/2021 SHEET NO:

PROJECT NO. **M101**

GENERAL SYMBOLS	PIPING	PIPING ACCESSORIES	PIPING FITTINGS	DUCT ACCESSORIES	GRILLES, REGISTERS, AND DIFFUSERS
<p>AB-# INFO</p> <p>EQUIPMENT DESIGNATION (REFER TO SCHEDULES AND SPECIFICATIONS)</p> <p>AB-# INFO</p> <p>SECTION INDICATOR A = SECTION DESIGNATION M-1 = SHEET DESIGNATION</p> <p>KEYED NOTE DESIGNATION</p> <p>DRAWING REVISION DESIGNATION</p> <p>CONNECT TO EXISTING</p> <p><b>ABBREVIATIONS</b></p> <p>AFF ABOVE FINISHED FLOOR OF LOWEST PART OF EQUIPMENT OR CENTERLINE OF PIPE UNLESS NOTED OTHERWISE</p> <p>AFG ABOVE FINISHED GRADE</p> <p>BDD BACK DRAFT DAMPER</p> <p>BFG BELOW FINISHED GRADE</p> <p>CD CONDENSATE DRAIN</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>COTG CLEANOUT TO GRADE</p> <p>CV CIRCUIT VENT</p> <p>CW COLD WATER</p> <p>DB DRY BULB TEMPERATURE</p> <p>EA EXHAUST AIR</p> <p>EAT ENTERING AIR TEMPERATURE</p> <p>EWIT ENTERING WATER TEMPERATURE</p> <p>FCD FLOOR CLEANOUT</p> <p>°F DEGREES FAHRENHEIT</p> <p>FF FINISHED FLOOR</p> <p>GC GENERAL CONTRACTOR</p> <p>HW HOT WATER - DOMESTIC</p> <p>HWC HOT WATER CIRCULATING - DOMESTIC</p> <p>HWR HOT WATER RETURN</p> <p>HWS HOT WATER SUPPLY</p> <p>LB POUNDS (WEIGHT)</p> <p>MC MECHANICAL CONTRACTOR</p> <p>NIC NOT IN CONTRACT</p> <p>NK NECK (DUCT CONNECTION)</p> <p>NTS NOT TO SCALE</p> <p>OBD OPPOSED BLADE DAMPER</p> <p>PC PLUMBING CONTRACTOR</p> <p>RA RETURN AIR</p> <p>RDL ROOF DRAIN LEADER</p> <p>RE REFER TO</p> <p>SA SUPPLY AIR</p> <p>SDL STORM DRAIN LEADER</p> <p>SS SANITARY SEWER</p> <p>SWR SNOWMELT WATER RETURN</p> <p>SWS SNOWMELT WATER SUPPLY</p> <p>TYP TYPICAL</p> <p>UNO UNLESS NOTED OTHERWISE</p> <p>V VENT</p> <p>VTR VENT THROUGH ROOF</p> <p>WCO WALL CLEANOUT</p> <p>W WASTE</p> <p>WB WET BULB TEMPERATURE</p>	<p>CWR CHILLED WATER RETURN</p> <p>CWS CHILLED WATER SUPPLY</p> <p>CW COLD WATER</p> <p>CA COMPRESSED AIR</p> <p>HW HOT WATER - DOMESTIC</p> <p>HW HOT WATER - DOMESTIC, TEMPERATURE SHOWN</p> <p>HW HOT WATER CIRCULATING - DOMESTIC</p> <p>HWR HEATING WATER RETURN</p> <p>HWS HEATING WATER SUPPLY</p> <p>G NATURAL GAS</p> <p>NO NITROUS OXIDE</p> <p>O OXYGEN</p> <p>ORDL OVERFLOW ROOF DRAIN PIPING</p> <p>RDL ROOF DRAIN PIPING</p> <p>RL REFRIGERATION LIQUID</p> <p>RS REFRIGERATION SUCTION</p> <p>SS SANITARY SEWER</p> <p>SWR SNOWMELT RETURN</p> <p>SWS SNOWMELT SUPPLY</p> <p>V VACUUM</p> <p>W WASTE</p>	<p>GATE OR GLOBE VALVE</p> <p>BALL VALVE</p> <p>CHECK VALVE</p> <p>SOLENOID VALVE</p> <p>BUTTERFLY VALVE</p> <p>RELIEF VALVE</p> <p>BALANCING VALVE, CALIBRATED</p> <p>ANGLE VALVE, GATE OR GLOBE</p> <p>UNION</p> <p>CONTROL VALVE, 2-WAY</p> <p>CONTROL VALVE, 3-WAY</p> <p>P-T PORT</p> <p>STRAINER</p> <p>THERMOMETER IN PIPELINE</p> <p>PRESSURE REGULATING VALVE</p> <p>HOSE BIBB</p> <p>PRESSURE GAUGE</p> <p>HORIZONTAL CLEANOUT</p> <p>FLOOR CLEANOUT</p> <p>TWO-WAY CLEANOUT</p> <p>FLOOR DRAIN OR SHOWER DRAIN</p> <p>FLOOR SINK</p> <p>ROOF DRAIN</p>	<p>ELBOW</p> <p>ELBOW UP</p> <p>ELBOW DOWN</p> <p>TEE</p> <p>TEE UP</p> <p>TEE DOWN</p> <p><b>DUCTWORK</b></p> <p>22"x18" RETURN OR EXHAUST DUCT DOWN, DIMENSION ACROSS LISTED FIRST</p> <p>SUPPLY DUCT DOWN</p> <p>RETURN OR EXHAUST DUCT UP</p> <p>SUPPLY DUCT UP</p> <p>DUCT ELBOW, DIMENSION OF SIDE SHOWN = 22"</p> <p>DUCT, DIMENSION OF SIDE SHOWN = 22"</p>	<p>FLEXIBLE DUCT CONNECTION</p> <p>MANUAL VOLUME DAMPERS IN DUCTS</p> <p>FIRE DAMPER</p> <p>COMBINATION FIRE/SMOKE DAMPER</p> <p>MOTORIZED CONTROL DAMPER IN DUCT</p> <p><b>CONTROLS</b></p> <p>THERMOSTAT / TEMPERATURE CONTROL</p> <p>HUMIDISTAT OR HUMIDITY SENSOR</p> <p>DUCT THERMOSTAT OR TEMPERATURE SENSOR</p> <p>DUCT HUMIDISTAT OR HUMIDITY SENSOR</p> <p>TEMPERATURE SENSOR</p> <p>PRESSURE SENSOR</p> <p>CARBON DIOXIDE SENSOR</p>	<p>RA-1 12"x18" SIDEWALL RETURN OR EXHAUST GRILLE RA-1 (OR EA-1), 12"Wx8"H</p> <p>SA-1 12"x8" 225 CFM SIDEWALL SUPPLY GRILLE OR REGISTER SA-1, 12"Wx8"H, 225 CFM</p> <p>RA-1 12"x18" CEILING RETURN GRILLE OR REGISTER RA-1, 12"x8"</p> <p>SA-1 24"x24" 225 CFM CEILING SUPPLY DIFFUSER, GRILLE, OR REGISTER SA-1, 24"x24", 225 CFM</p> <p>EA-1 12"x8" 200 CFM CEILING EXHAUST GRILLE OR REGISTER EA-1, 12"x8", 200 CFM</p>



437 Main Street  
Grand Junction, CO 81501  
970.242.6804  
chamberlinarchitects.com

RAJASTON MECHANICAL CONSULTING, LLC  
Engineering for HVAC, Refrigeration, and Plumbing  
300 ARCH CANYON COURT, GRAND JUNCTION, CO 81507-9584  
Phone: 970-624-9107 Mobile: 970-200-1701 Email: dcr@rajmcc.com

FOOD BANK OF THE ROCKIES

698 LONG ACRE DRIVE  
GRAND JUNCTION, COLORADO

MECHANICAL  
DETAILS & LEGEND

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