

BID ADDENDUM NO. 2

July 1, 2026
Alfred Almond CSD
2025 Capital Project
2028-059

SED #02-01-01-04-0-001-037 – K-12 Main Campus Building

The following Addendum items shall be considered a part of the contract documents prepared by HUNT ENGINEERS, ARCHITECTS, LAND SURVEYORS & LANDSCAPE ARCHITECT, DPC.
Bid Document date of April 7, 2026, issued for bid June 3, 2026.

Clarifications issued by this Addendum:

1. An existing drawing of the existing natatorium roof construction has been provided for informational purposes.

Project Manual Sections issued by this Addendum:

08 11 16 – Aluminum Doors and Frames
22 05 29 – Hangers and Supports for Plumbing Piping and Equipment

Drawings issued by this Addendum:

AD2-A1 – SLATE ROOF EDGE @ MEMBRANE CONNECTION
AD2-A2 – NATATORIUM LOWER ROOF EDGE
AD2-A3 – ELEVATOR SOFFIT AIR BARRIER
AD2-A4 – DOOR DETAILS
AD2-P1 – BOILER GAS SCHEMATIC
MC-E3.2 – MECHANICAL EQUIPMENT AND CONNECTION SCHEDULE

Revisions to Project Manual issued by this Addendum:

- ITEM AD2-1 Refer to Section 00 01 12 – Table of Contents**
ADD 22 05 29-Hangers and Supports for Plumbing Piping and Equipment to the Table of Contents
- ITEM AD2-2 Refer to Section 00 01 12 – Table of Contents**
ADD 08 11 16-Aluminum Doors and Frames to the Table of Contents
- ITEM AD2-3 Refer to Section 08 16 13 – Fiberglass Doors**
DELETE Paragraph 2.1, B in its entirety.
- ITEM AD2-4 Refer to Section 08 43 13 – Aluminum – Framed Storefronts**
DELETE Paragraph 1.1, B and C in its entirety.

ITEM AD2-5 Refer to Section 08 43 13 – Aluminum – Framed Storefronts
DELETE Paragraph 2.3 in its entirety.

ITEM AD2-6 Refer to Section 08 43 13 – Aluminum – Framed Storefronts
DELETE Paragraph 2.6 in its entirety.

ITEM AD2-7 Refer to 22 10 05 – Plumbing Piping and Specialties
ADD 2.8 NATURAL GAS PIPING, ABOVE GRADE to read:

- A. Steel Pipe: ASTM A53/A53M Schedule 40 black.**
1. Fittings: ASME B16.3, malleable iron, or ASTM A234/A234M, wrought steel welding type.
 2. Joints: NFPA 54, Threaded for pipe size 2-1/2" inch and smaller and welded for pipe size 3 inch and larger to ASME B31.1.
 3. Exterior gas piping above grade:
 - a. Apply one coat of rust inhibitive primer paint and one finish coat of paint per manufacturer's recommendation. Rust preventive enamel, OSHA approved. Color to be coordinated with Owner.
- B. Flexible Gas Piping:**
1. Corrugated Stainless Steel Tubing: Comply with ANSI LC 1/CSA 6.26.
 2. Comply with ASTM E84.
 3. Fittings: Provided by piping system manufacturer.

Revisions to Drawings issued by this Addendum:

ITEM AD2-8 Refer to Drawing MC-A1.13 – Roof Details
AMEND Detail #2 as per Detail #1 on AD2-A1 as issued by this addendum.

ITEM AD2-9 Refer to Drawing MC-A1.14 – Roof Details
AMEND Callout in Detail #8 which reads "EXG MASONRY" to read as follows:
"8" CMU"

ITEM AD2-10 Refer to Drawing MC-A1.14 – Roof Details
AMEND Detail #2 as per Detail #1 on AD2-A2 as issued by this addendum.

ITEM AD2-11 Refer to Drawing MC-A1.14 – Roof Details
AMEND Detail #13 as per Detail #1 on AD2-A3 as issued by this addendum.

ITEM AD2-12 Refer to Drawing MC-A6.1 – Door Schedule and Details
AMEND Detail #2 as per Detail #1 on AD2-A4 as issued by this addendum.

ITEM AD2-13 Refer to Drawing MC-A6.1 – Door Schedule and Details
AMEND Detail #4 as per Detail #2 on AD2-A4 as issued by this addendum.

ITEM AD2-14 Refer to Drawing MC-A6.1 – Door Schedule and Details
AMEND Detail #5 as per Detail #3 on AD2-A4 as issued by this addendum.

ITEM AD2-15 Refer to Drawing MC-A6.1 – Door Schedule and Details

AMEND Dimensions in Detail #6 which read “2 1/2”” to read as follows:
“2””

ITEM AD2-16 Refer to Drawing MC-A6.1 – Door Schedule and Details

AMEND Detail #7 as per Detail #4 on AD2-A4 as issued by this addendum.

ITEM AD2-17 Refer to Drawing MC-A6.1 – Door Schedule and Details

AMEND Detail #9 as per Detail #5 on AD2-A4 as issued by this addendum.

ITEM AD2-18 Refer to Drawing MC-A6.1 – Door Schedule and Details

AMEND Detail #10 as per Detail #6 on AD2-A4 as issued by this addendum.

ITEM AD2-19 Refer to Drawing MC-A6.1 – Door Schedule and Details

AMEND Detail #11 as per Detail #7 on AD2-A4 as issued by this addendum.

ITEM AD2-20 Refer to Drawing MC-A6.1 – Door Schedule and Details

AMEND DOOR FINISH for door 29-1 which reads “ANOD.” to read as follows:
“FRP”

ITEM AD2-21 Refer to Drawing MC-A6.1 – Door Schedule and Details

ADD Note to door 29-1 to read as follows:
“BASIS OF DESIGN: SPECIALLITE SL19”

ITEM AD2-22 Refer to Drawing MC-A6.1 – Door Schedule and Details

ADD Note to doors A111-1 and A111-2 to read as follows:
“Muntin profile and door panel profile to match existing.”

ITEM AD2-23 Refer to Drawing MC-P2.2 – First Floor Domestic Plans

ADD Detail 5/MC-P2.2 as shown on AD1-P1 – BOILER GAS SCHEMATIC, as issued by this addendum.

ITEM AD2-24 Refer to Drawing E3.2 – Mechanical Equipment and Connection Schedule

DELETE SHEET “MC-E3.2 - MECHANICAL EQUIPMENT AND CONNECTION SCHEDULE” in its entirety.

ITEM AD2-25 Refer to Drawing E3.2 – Mechanical Equipment and Connection Schedule

ADD SHEET “MC-E3.2 - MECHANICAL EQUIPMENT AND CONNECTION SCHEDULE” as issued by this addendum.

End of Addendum #2

SECTION 08 11 16
ALUMINUM DOORS AND FRAMES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Flush aluminum doors with fiberglass reinforced plastic (FRP) face sheets.
- B. Aluminum frames.

1.2 RELATED REQUIREMENTS

- A. Section 07 92 00 - Joint Sealants: Sealing joints between door frames and adjacent construction.
- B. Section 08 71 00 - Door Hardware: Hardware for aluminum doors.
- C. Section 08 80 00 - Glazing: Glazing materials for aluminum doors and frames.

1.3 REFERENCE STANDARDS

- A. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum; 2025.
- B. AAMA 701/702 - Performance Specification for Pile Weatherstrips (AAMA 701) and Polymer Weatherseals (AAMA 702); 2023.
- C. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.
- D. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- E. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2024.
- F. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.
- G. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
- H. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.
- I. ASTM C1363 - Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus; 2024.
- J. ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics; 2024.
- K. ASTM D570 - Standard Test Method for Water Absorption of Plastics; 2022.
- L. ASTM D638 - Standard Test Method for Tensile Properties of Plastics; 2022.
- M. ASTM D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials; 2017.
- N. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2024.
- O. IBC 2603.4.1.7 - Standard for Plastic Foam Insulation in Non-Rated Swinging Doors.

- P. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.4 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's descriptive literature for each type of door and frame; include information on fabrication methods, finishing, hardware preparation, installation, and maintenance instructions.
- C. Shop Drawings: Include elevations of each opening type, details at each wall type, and schedule of openings.
 - 1. Verify dimensions by field measurements before fabrication and indicate on shop drawings.
- D. Selection Samples: Complete set of color and finish options, using actual materials, for Architect's selection.
- E. Test Report: Certified test reports from qualified independent testing agency indicating doors comply with specified performance requirements.
- F. Manufacturer's qualification statement.
- G. Installer's qualification statement.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with not less than ten years of documented experience.
- B. The manufacturer or his representative shall be available for consultation to all parties engaged in the project including instruction to installation personnel.
- C. Unless otherwise indicated, obtain doors and frames from a single company specializing in the type of construction required so that there will be undivided responsibility for the specified performance of all component parts including glazing for doors and factory installation of door hardware.
- D. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver aluminum components in manufacturer's standard protective packaging, palletted, crated, or banded together.
- B. Inspect delivered components for damage and replace. Repaired components will not be accepted.
- C. Store components in clean, dry, indoor area, under cover in manufacturer's packaging until installation.
- D. Protect materials and finish from damage during handling and installation.

1.7 FIELD CONDITIONS

- A. Do not begin installation of interior aluminum components until space has been enclosed and ambient thermal conditions are being maintained at levels consistent with final project requirements.

1.8 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

- B. Provide written warranty signed by manufacturer, installer and contractor, agreeing to replace, at no cost to the Owner, any doors, frames or factory hardware installation against failure in materials or workmanship within the warranty period. Failure of materials or workmanship includes: excessive deflection, faulty operation of entrances, deterioration of finish or construction in excess of normal weathering and defects in hardware installation. The minimum time period of warranty is ten years from Date of Substantial Completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Flush Aluminum Doors with Fiberglass Reinforced Plastic (FRP) Face Sheets:
 - 1. Special-Lite, Inc; SL-19: www.special-lite.com/#sle.
 - 2. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Aluminum Frames:
 - 1. Special-Lite, Inc; SL-450TB: www.special-lite.com.
 - 2. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 DOORS AND FRAMES

- A. Accessibility: Comply with ICC A117.1 and ADA Standards.
- B. Flush Aluminum Doors with Fiberglass Reinforced Plastic (FRP) Face Sheets: Aluminum internal framing; no steel components.
 - 1. Thickness: 1-3/4 inches.
 - 2. Aluminum Finish: Superior performing organic coating.
 - 3. Facing: Seamless, ultraviolet stabilized laminated FRP sheet.
 - a. Sheet Thickness: 0.12 inch, minimum.
 - b. Texture - FRP: Contemporary wood grain.
 - c. Surface Burning Characteristics:
 - 1) Exterior Facing: Flame spread index (FSI) of 76 to 200, Class C, and smoke developed index (SDI) of 450 or less; when tested in accordance with ASTM E84.
 - 2) Interior Facing: Flame spread index (FSI) of 0 to 25, Class A, and smoke developed index (SDI) of 450 or less; when tested in accordance with ASTM E84.
 - d. Color: To be selected from manufacturer's full range of wood grain options.
 - 4. Weatherstripping: Replaceable pile type; at jambs and head of exterior doors.
- C. Aluminum Frames for Non-rated Doors, Sidelights, or Transoms: Extruded aluminum, thermally broken hollow sections; no steel components; open back framing shall not be accepted.
 - 1. Frame Depth: 4-1/2 inches.
 - 2. Finish: Superior performing organic coating.
 - 3. Weatherstripping: Replaceable pile type; at jambs and head.
- D. Dimensions and Shapes: As indicated on drawings; dimensions indicated are nominal.
 - 1. Provide vision lites as indicated on drawings.
 - 2. Provide the following clearances:
 - a. Hinge and Lock Stiles: 1/8 inch.
 - b. Between Meeting Stiles: 1/4 inch.
 - c. At Top Rail and Bottom Rail: 1/8 inch.

2.3 COMPONENTS

- A. Flush Door Panels: Without visible seams on face sheet.
 - 1. Framing and Hardware Backup: Extruded aluminum tubing, 1/8 inch minimum thickness.
 - a. Minimum 2-5/16 inch deep one-piece with integral reglets to accept face sheet on interior and exterior of door for flush appearance.

ALUMINUM DOORS AND FRAMES

- 1) Screw applied removable rail caps or other face sheet capture methods are not acceptable.
 - b. Provide 3/16" angle blocks with hex type aircraft nuts for joinery without welds, glues or other methods for securing internal door extrusions.
 - c. Construct with mitered corners and provide joinery with 3/8" dia. full-width steel tie rods through extruded splines top and bottom as standard.
 - d. Hardware Preparations: Factory reinforce, machine, and prepare for all specified hardware; obtain manufacturer's templates for hardware preparations. Factory install hardware.
 2. Exterior Doors Thermal Transmittance: U-value of .37, nominal, when tested in accordance with ASTM C1363.
 3. Core: Poured-in-place polyurethane foam insulating material of not less than 5 lb/cu ft density.
 - a. Foam Plastic Insulated Doors: IBC 2603.4.
 - 1) Foam plastic shall be separated from the interior of a building by an approved thermal barrier.
 - 2) Approved thermal barrier must meet the acceptance criteria of the Temperature Transmission Fire Test and Integrity Fire Test as stated in NFPA 275.
 - 3) IBC 2603.4.1.7 foam plastic insulation, having a flame spread index less than 75 and a smoke developed index of not more than 450 shall be permitted as a door core when the face is metal minimum 0.032" aluminum or 0.016" steel.
 - 4) Standard door assembly shall be tested to show it meets these requirements without the use of thermal barrier. If no independent testing conducted all doors with foam plastic core must have a thermal barrier.
 4. Laminating Adhesive: Manufacturer's standard low-VOC materials.
- B. Frames: Extruded aluminum shapes, not less than 0.125 inch thick, reinforced at hinge and strike locations.
1. Corner Brackets: Extruded aluminum, fastened with stainless steel screws.
 2. Applied Door Stops: Extruded aluminum, not less than 0.125 inch thick, 0.625 high removable screw-in type with exposed fasteners.
 - a. Counterpunch fastener holes in door stop to preserve full metal thickness under fastener head.
 - b. At closer arm location, reinforce with solid bar stock for secure hardware attachment.
 3. Caulk joints before assembling frame members. Secure joints with fasteners and provide a hairline butt joint appearance. Prefit doors to frame assembly at factory prior to shipment. Field fabrication of framing using "stick" materials is not acceptable.
 4. Factory preassemble sidelights to greatest extent possible and mark frame assemblies according to location.
- C. Manufacture doors with cutouts for vision lites as scheduled. Factory finish and install all glazing prior to shipment.
- D. Vision Lites: Extruded aluminum framed, gasket glazed.
1. Glazing: See Section 08 80 00.
- E. Astragals and Edges for Double Doors: Pairs of doors astragals, and door edge sealing and protection devices.
1. Provide manufacturer's standard astragal to cover or fill space for full door height between pair of doors or door and adjacent jamb.
- F. Provide manufacturers standard concealed adjustable door bottom with dual brushes for up to 5/8-inch adjustment.
1. Special-Lite SL-301 or equal.
- G. Additional Door Hardware: See Section 08 71 00.
1. All hardware with the exception of door closer, threshold and weatherstripping to be shipped to door manufacturer. Door manufacturer shall install hardware on doors and warranty attachment for ten years. Complete fabrication, assembly, finishing and other work before shipment to project site. Disassemble components only as necessary for shipment and installation.

- H. Replaceable Weatherstripping: AAMA 701/702 wool pile.

2.4 PERFORMANCE REQUIREMENTS

- A. Provide door assemblies that have been designed and fabricated in compliance with specified performance requirements.
- B. Fiberglass Reinforced Plastic (FRP) Face Sheet Properties; Class A:
 1. Izod Impact Resistance: ASTM D256, 4.0 ft lbf/inch of width, minimum, with notched izod.
 2. Tensile Strength at Break: ASTM D638, 7,000 psi, minimum.
 3. Water Absorption: ASTM D570, 0.16 percent, maximum, after 24 hours at 74 degrees F.
 4. Flexural Strength: ASTM D790, 14,000 psi, minimum.

2.5 MATERIALS

- A. Aluminum Sheet: ASTM B209/B209M, alloy 5005, temper H14, stretcher leveled.
- B. Extruded Aluminum: ASTM B221 (ASTM B221M), alloy 6063, temper T5, or alloy 6463, temper T5.

2.6 FINISHES

- A. Superior Performing Organic Coatings System: Manufacturer's standard multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent polyvinylidene fluoride (PVDF) resin, and at least 80 percent of aluminum extrusion and panels surfaces having minimum total dry film thickness (DFT) of 1.2 mils, 0.0012 inch.
- B. Color: As selected by Architect from manufacturer's standard line.
- C. Touch-Up Materials: As recommended by coating manufacturer for field application.

2.7 ACCESSORIES

- A. Fasteners: Aluminum, non-magnetic stainless steel, or other material warranted by manufacturer as non-corrosive and compatible with aluminum components.
- B. Brackets and Reinforcements: Manufacturer's high-strength aluminum units where feasible, otherwise, non-magnetic stainless steel or steel hot-dip galvanized in compliance with ASTM A123/A123M.
- C. Bituminous Coating: Cold-applied asphaltic mastic, compounded for 30-mil thickness per coat.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that wall surfaces and openings are ready to receive frames and are within tolerances specified in manufacturer's instructions.
- B. Verify that frames installed by other trades for installation of doors of this section are in strict accordance with recommendations and approved shop drawings and within tolerances specified in manufacturer's instructions.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install doors and frames in accordance with manufacturer's instructions and approved shop drawings.

1. Provide thermal isolation where components penetrate or disrupt building insulation. Coordinate attachment and seal of perimeter air and vapor retarder materials. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- B. Set frames plumb, square, level, and aligned to receive doors. Anchor frames to adjacent construction in strict accordance with manufacturer's recommendations and within specified tolerances.
 1. Install with anchors appropriate for wall conditions to anchor framing to wall materials.
 2. Secure head and sill members of transom, sidelights and similar conditions.
 3. Maintain continuity of line and accurate relation of planes and angles. Secure attachments and support at mechanical joints with hairline fit at contacting members.
- C. Set thresholds in bed of mastic and backseal.
- D. Where aluminum surfaces contact metals other than stainless steel, zinc, or small areas of white bronze, protect from direct contact by painting dissimilar metal with heavy coating of bituminous paint.
- E. Hang doors and adjust hardware to achieve specified clearances and proper door operation.
- F. Comply with glazing installation requirements. See Section 08 80 00.

3.3 CLEANING

- A. Upon completion of installation, thoroughly clean door and frame surfaces in accordance with AAMA 609 & 610.
- B. Do not use abrasive, caustic, or acid cleaning agents.

3.4 PROTECTION

- A. Protect products of this section from damage caused by subsequent construction until Date of Substantial Completion.
- B. Replace damaged or defective components that cannot be repaired to a condition indistinguishable from undamaged components.

END OF SECTION

SECTION 22 05 29
HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Prefabricated trapeze-framed systems.
- B. Strut systems for pipe or equipment support.
- C. Beam clamps.
- D. Pipe hangers.
- E. Pipe rollers and roller supports.
- F. Pipe supports, guides, shields, and saddles.

1.2 RELATED REQUIREMENTS

- A. Section 03 30 00 - Cast-in-Place Concrete: Concrete equipment pads.
- B. Section 05 50 00 - Metal Fabrications.

1.3 REFERENCE STANDARDS

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025.
- B. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.
- C. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2023.
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2024.
- E. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2024a.
- F. MSS SP-58 - Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation; 2025.
- G. UL (DIR) - Online Certifications Directory; Current Edition.
- H. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Current Edition, Including All Revisions.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate sizes and arrangement of supports and bases with the actual equipment and components to be installed.
 - 2. Coordinate the work with other trades to provide additional framing and materials required for installation.

3. Coordinate compatibility of support and attachment components with mounting surfaces at the installed locations.
4. Coordinate the arrangement of supports with ductwork, piping, equipment and other potential conflicts installed under other sections or by others.
5. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Sequencing:

1. Do not install products on or provide attachment to concrete surfaces until concrete has fully cured in accordance with Section 03 30 00.

1.5 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for metal channel (strut) framing systems, nonpenetrating rooftop supports, post-installed concrete and masonry anchors, and thermal insulated pipe supports.

1.6 QUALITY ASSURANCE

- A. Comply with applicable building code.

PART 2 PRODUCTS

2.1 GENERAL REQUIREMENTS

- A. The products specified herein are intended solely for areas of potential high chemical concentration, including but not limited to the Pool Filter Room. All materials for such use or locations shall be fully of stainless steel component to resist corrosion.
- B. Provide required hardware to hang or support piping, equipment, or fixtures with related accessories as necessary to complete installation of plumbing work.
- C. Provide hardware products listed, classified, and labeled as suitable for intended purpose.
- D. Materials for Metal Fabricated Supports: Comply with Section 05 50 00.
 1. Stainless Steel, General: ASTM A666/A666M, Type 316.
- E. Corrosion Resistance: Use corrosion-resistant metal-based materials fully compatible with exposed piping materials and suitable for the environment where installed.
 1. Indoor Dry Locations: Use 316 stainless steel unless otherwise indicated.

2.2 PREFABRICATED TRAPEZE-FRAMED SYSTEMS

- A. Prefabricated Trapeze-Framed Metal Strut Systems:
 1. Strut Channel or Bracket Material:
 2. Accessories: Provide bracket covers, cable basket clips, cable tray clips, clamps, conduit clamps, fire-retarding brackets, j-hooks, protectors, and vibration dampeners.

2.3 STRUT SYSTEMS FOR PIPE OR EQUIPMENT SUPPORT

- A. Strut Channels:
 1. Stainless Steel, General: ASTM A666/A666M, Type 316.
 2. Channel or Bracket Kits: Include rods, brackets, end-fixed fittings, covers, clips, and other related hardware required to complete sectional trapeze section for piping or other support.

- B. Hanger Rods:

HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

1. Threaded stainless steel unless otherwise indicated.

C. Channel Nuts:

1. Provide 316 stainless steel channel nut with stainless steel finish and long, regular, or short spring as indicated on drawings.

2.4 BEAM CLAMPS

A. C-Clamp: MSS SP-58 type 23, stainless steel, type 316 with plain finish.

B. Small or Junior Beam Clamp: MSS SP-58 type 19, stainless steel with plain finish. For inverted usage provide manufacturer listed size(s).

C. Provide clamps with hardened steel cup-point set screws and lock-nuts for anchoring in place.

D. Material: Stainless Steel, General: ASTM A666/A666M, Type 316.

2.5 PIPE HANGERS

A. J-Hangers, Adjustable:

1. MSS SP-58 type 5, Stainless Steel, General: ASTM A666/A666M, Type 316.

B. Clevis Hangers, Adjustable:

1. Standard-Duty: MSS SP-58 type 1, stainless steel.
2. UL (DIR) listed: Pipe sizes 2-1/2 to 8 inch.

2.6 PIPE CLAMPS

A. Riser Clamps:

1. For insulated pipe runs, provide two bolt-type clamps designed for installation under insulation.
2. MSS SP-58 type 1 or 8, stainless steel with plain finish.
3. Medium Split Horizontal Pipe Clamp: MSS SP-58 type 4, stainless steel with stainless steel finish.
4. UL (DIR) listed: Pipe sizes 1/2 to 8 inch.

B. Strut Clamps:

1. Pipe Clamp: Two-piece rigid, universal, or outer diameter type, 316 stainless steel with stainless steel finish.

2.7 PIPE ROLLERS AND ROLLER SUPPORTS

A. MSS SP-58 type 43 based on required load, nonconductive and corrosion resistant.

B. Material: Stainless Steel, General: ASTM A666/A666M, Type 316.

2.8 PIPE SUPPORTS, GUIDES, SHIELDS, AND SADDLES

A. Dielectric Barriers: Provide between metallic supports and metallic piping and associated items of dissimilar type; acceptable dielectric barriers include rubber or plastic sheets or coatings attached securely to pipe or item.

B. Pipe Alignment Guides:

1. Pipe Sizes 8 inch and Smaller: Spider or sleeve type.
2. Pipe Sizes 10 inch and Larger: Roller type.

C. Pipe Shields for Insulated Piping:

1. MSS SP-58 type 40, Material: Stainless Steel, General: ASTM A666/A666M, Type 316.
2. General Construction and Requirements:
a. Surface Burning Characteristics: Comply with ASTM E84 or UL 723.
b. Shields Material: UV-resistant polypropylene with glass fill.

- c. Maximum Insulated Pipe Outer Diameter: 12-5/8 inch.
 - d. Service Temperature: Minus 40 to 178 degrees F.
 - e. Pipe shields to be provided at hanger, support, and guide locations on pipe requiring insulation or additional support.
- D. Pipe Supports:
- 1. Material: Stainless Steel, General: ASTM A666/A666M, Type 316.
 - 2. Liquid Temperatures Up to 122 degrees F:
 - a. Overhead Support: MSS SP-58 types 1, 3 through 12 clamps.
 - b. Support From Below: MSS SP-58 types 35 through 38.
- E. Pipe Supports, Thermal Insulated:
- 1. General Requirements:
 - a. Insulated pipe supports to be provided at hanger, support, and guide locations on pipe requiring insulation or additional support.
 - b. Surface Burning Characteristics: Flame spread index/smoke developed index of 5/30, maximum, when tested in accordance with ASTM E84 or UL 723.
 - c. Provide pipe supports for 1/2 to 30 inch iron pipes.
 - d. Insulation inserts to consist of rigid phenolic foam insulation surrounded by 360 degree, PVC jacketing.
 - 2. PVC Jacket:
 - a. Pipe insulation protection shields to be provided with ball bearing hinge and locking seam.
 - b. Moisture Vapor Transmission: 0.0071 perm inch, when tested in accordance with ASTM E96/E96M.
 - c. Minimum Thickness: 60 mil, 0.06 inch.

PART 3 EXECUTION

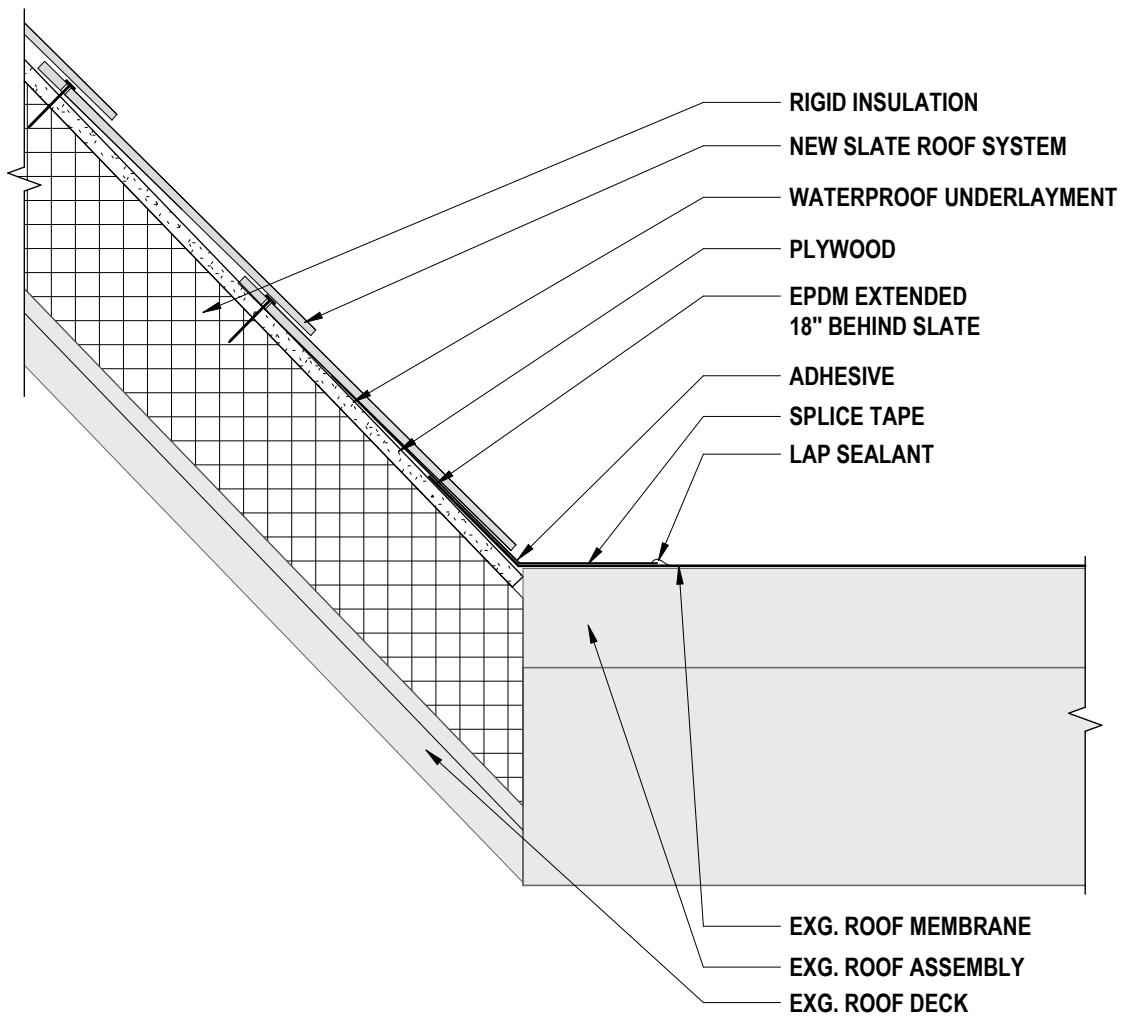
3.1 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Provide independent support from building structure. Do not provide support from piping, ductwork, conduit, or other systems.
- C. Unless specifically indicated or approved by Architect, do not provide support from suspended ceiling support system or ceiling grid.
- D. Unless specifically indicated or approved by Architect, do not provide support from roof deck.
- E. Do not penetrate or otherwise notch or cut structural members without approval of Structural Engineer.
- F. Provide thermal insulated pipe supports complete with hangers and accessories. Install thermal insulated pipe supports during the installation of the piping system.
- G. Equipment Support and Attachment:
 - 1. Use metal fabricated supports or supports assembled from metal channel (strut) to support equipment as required.
 - 2. Use metal channel (strut) secured to studs to support equipment surface-mounted on hollow stud walls when wall strength is not sufficient to resist pull-out.
 - 3. Use metal channel (strut) to support surface-mounted equipment in wet or damp locations to provide space between equipment and mounting surface.
 - 4. Securely fasten floor-mounted equipment. Do not install equipment such that it relies on its own weight for support.
- H. Secure fasteners according to manufacturer's recommended torque settings.
- I. Remove temporary supports.

3.2 FIELD QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements for additional requirements.
- B. Inspect support and attachment components for damage and defects.
- C. Repair cuts and abrasions in galvanized finishes using zinc-rich paint recommended by manufacturer.
Replace components that exhibit signs of corrosion.
- D. Correct deficiencies and replace damaged or defective support and attachment components.

END OF SECTION



1 SLATE ROOF EDGE DETAIL - B
 1 1/2" = 1'-0"

SLATE ROOF EDGE @ MEMBRANE CONNECTION

2025 CAPITAL PROJECT
ALFRED-ALMOND CSD

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AD2-A1

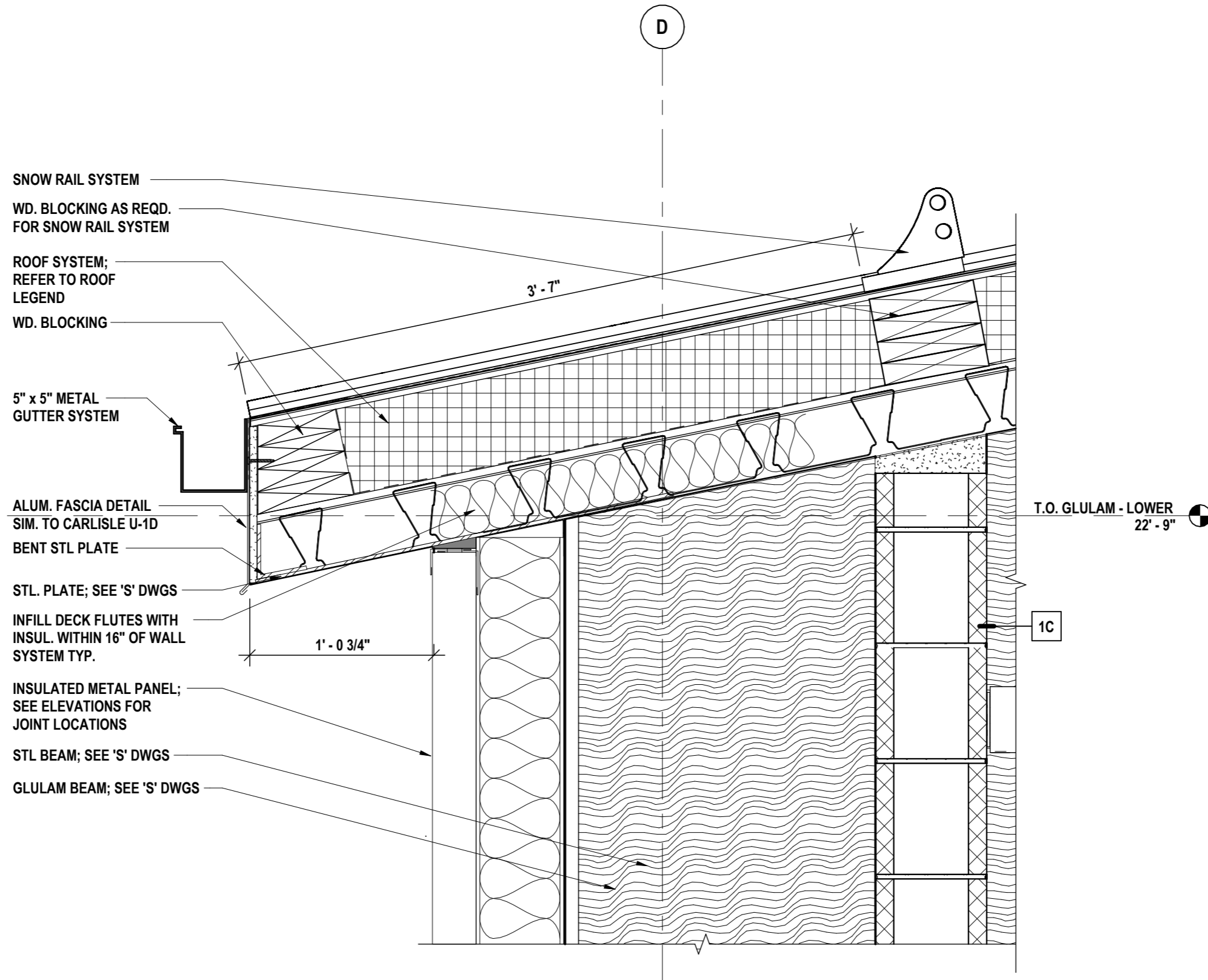
DATE:
 07/01/2026

PROJECT NO:
 2028-059

DRAWN BY: CAM
 CHECKED BY: MLS
 DATE: 07/01/2028
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"IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS BEARING A LICENSED ENGINEER'S, ARCHITECT'S OR SURVEYOR'S SEAL."

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- SNOW RAIL SYSTEM
- WD. BLOCKING AS REQD. FOR SNOW RAIL SYSTEM
- ROOF SYSTEM; REFER TO ROOF LEGEND
- WD. BLOCKING
- 5" x 5" METAL GUTTER SYSTEM
- ALUM. FASCIA DETAIL SIM. TO CARLISLE U-1D
- BENT STL PLATE
- STL. PLATE; SEE 'S' DWGS
- INFILL DECK FLUTES WITH INSUL. WITHIN 16" OF WALL SYSTEM TYP.
- INSULATED METAL PANEL; SEE ELEVATIONS FOR JOINT LOCATIONS
- STL BEAM; SEE 'S' DWGS
- GLULAM BEAM; SEE 'S' DWGS

T.O. GLULAM - LOWER
 22' - 9"

1C

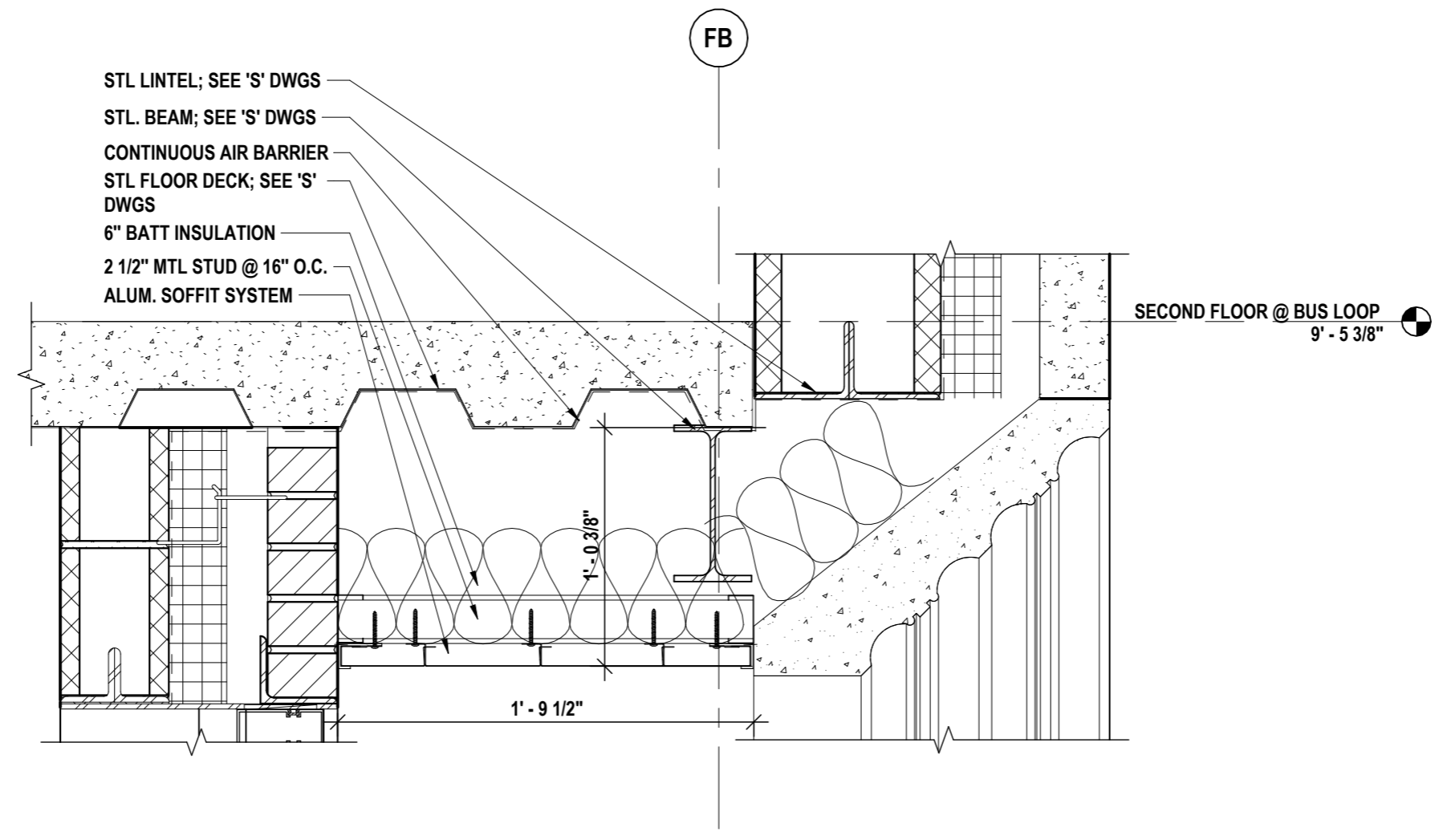
1 NATATORIUM LOWER ROOF EDGE DETAIL
 1 1/2" = 1'-0"

NATATORIUM LOWER ROOF EDGE DECK
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AD2-A2
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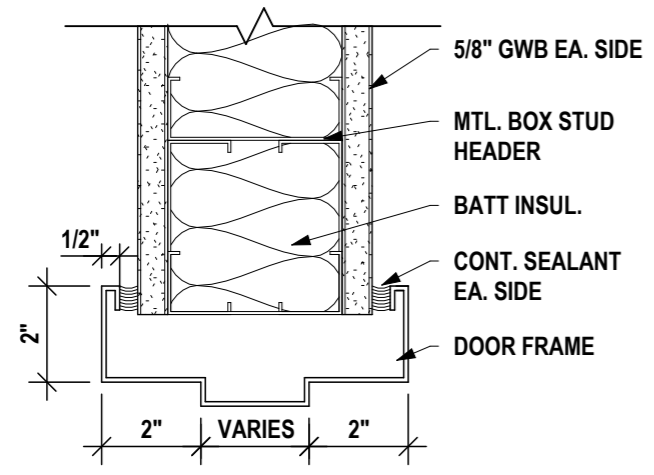
1 EXTERIOR SOFFIT @ ELEVATOR
 1 1/2" = 1'-0"

ELEVATOR SOFFIT AIR BARRIER
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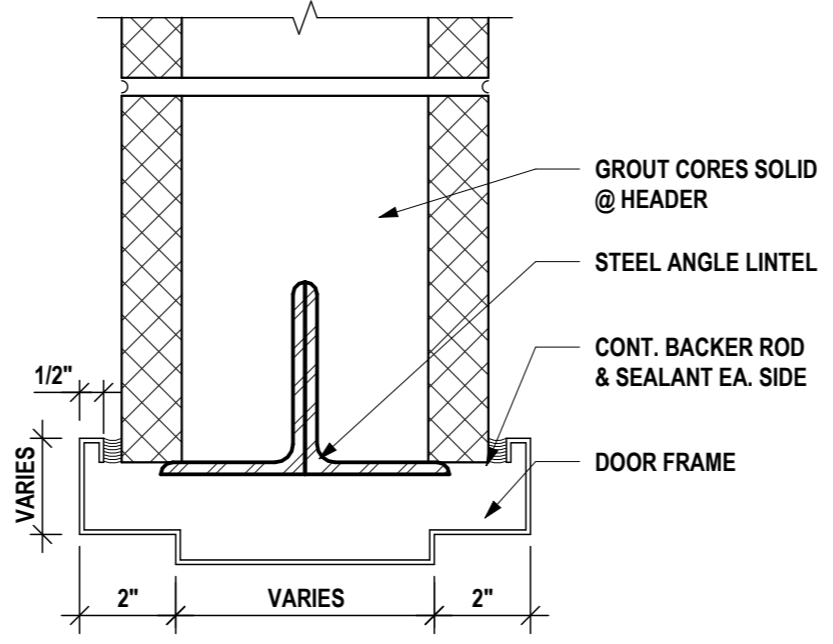
AD2-A3

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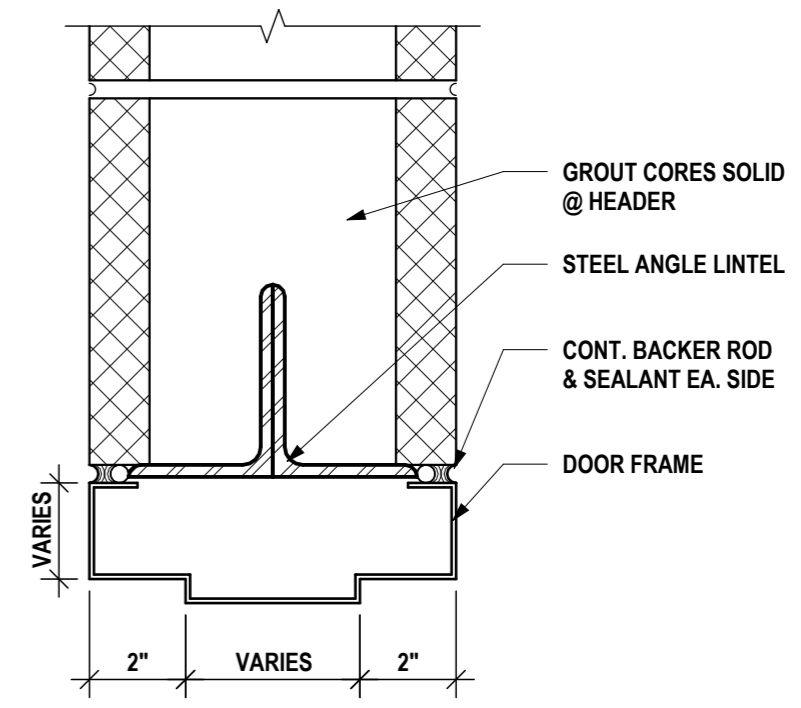
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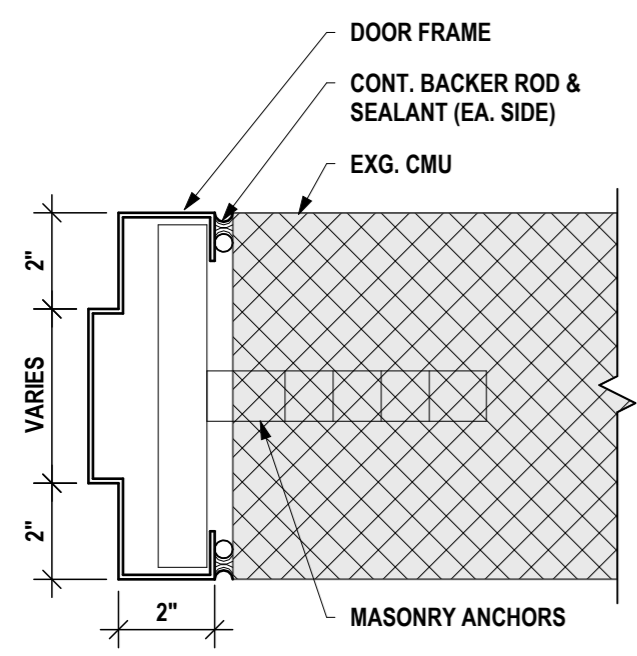
7 HEAD DETAIL - C
 3" = 1'-0"



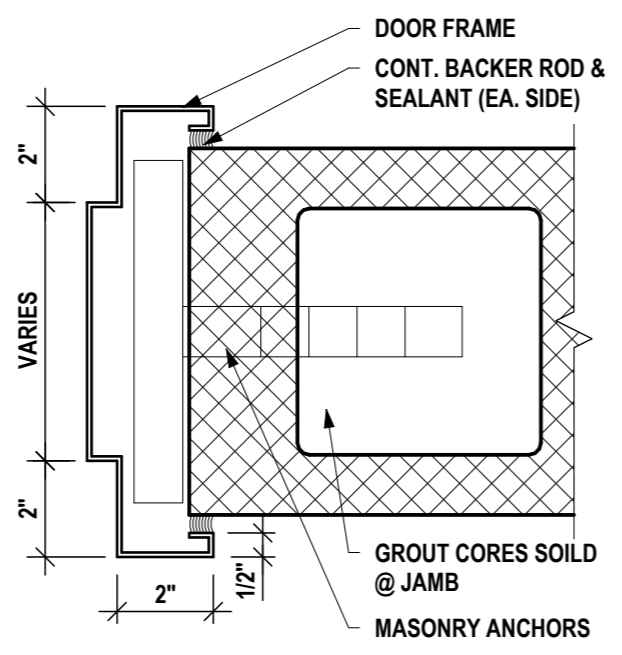
6 HEAD DETAIL - B
 3" = 1'-0"



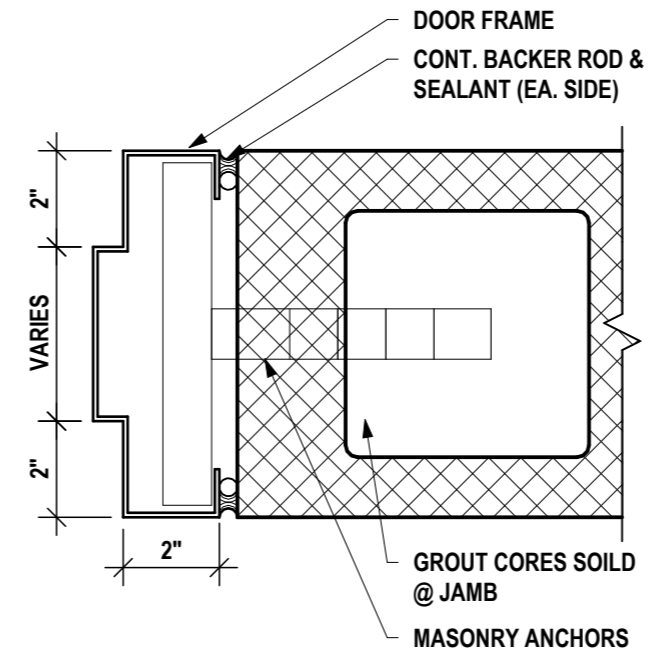
5 HEAD DETAIL - A
 3" = 1'-0"



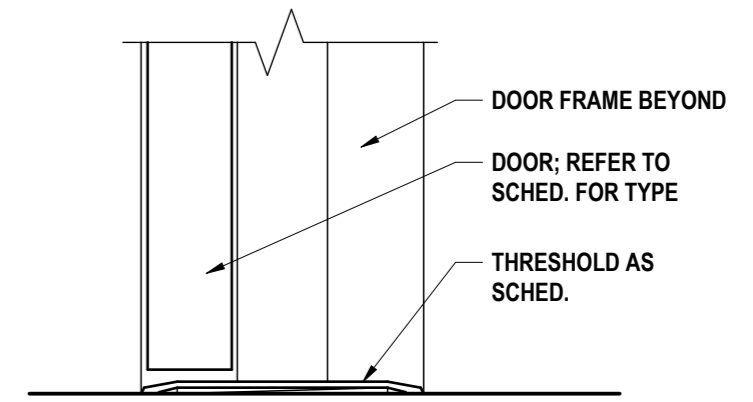
4 JAMB DETAIL - D
 3" = 1'-0"



3 JAMB DETAIL - B
 3" = 1'-0"



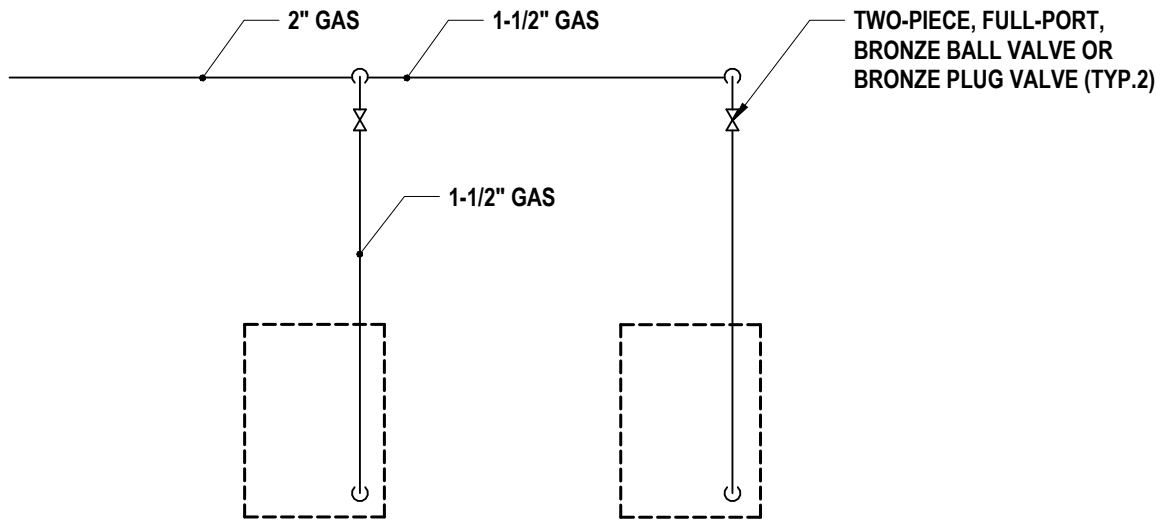
2 JAMB DETAIL - A
 3" = 1'-0"



1 THRESHOLD DETAIL - B
 3" = 1'-0"

DOOR DETAILS
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AD2-A4



1 BOILER GAS SCHEMATIC
N.T.S.

BOILER GAS SCHEMATIC

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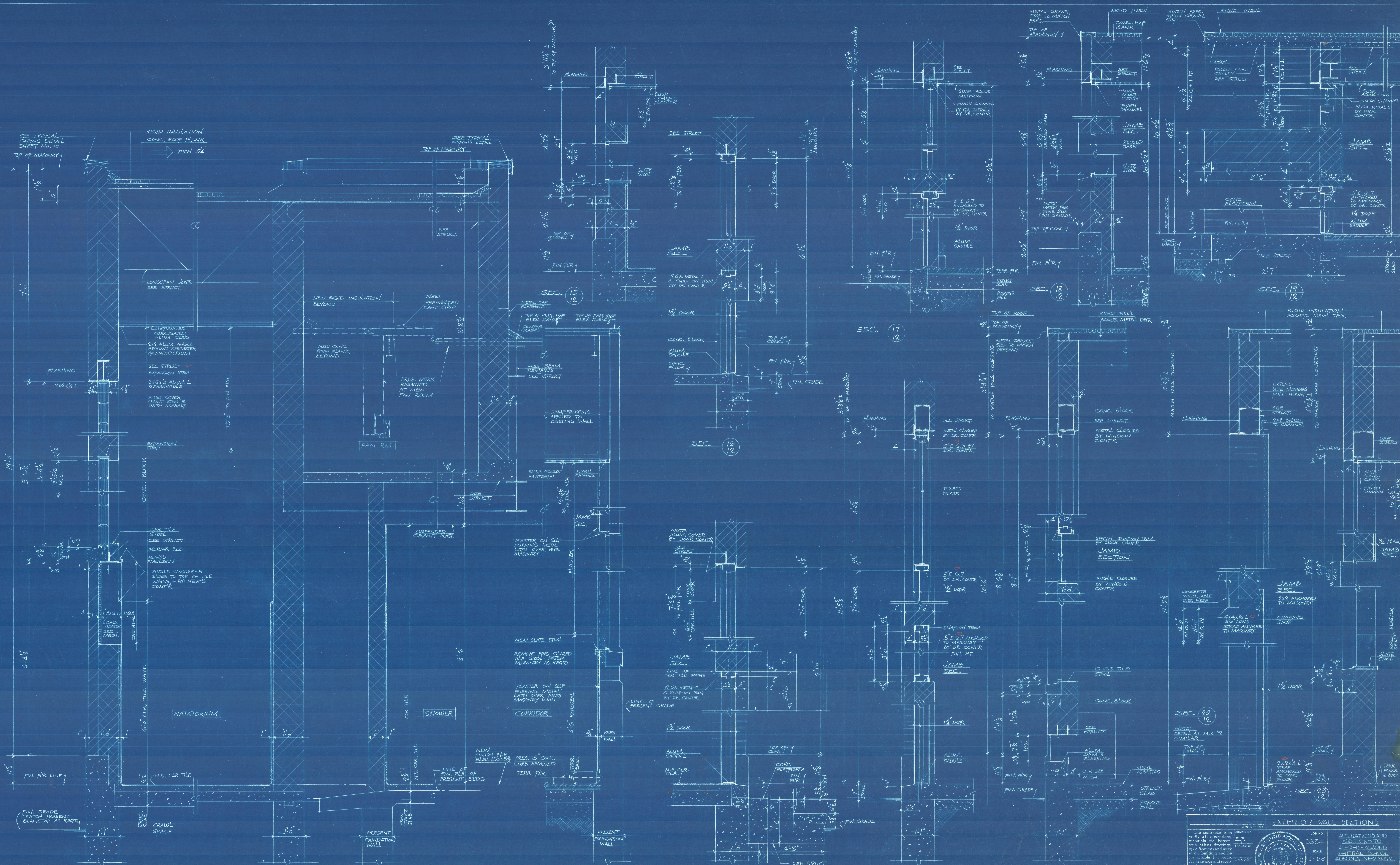
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AD2-P1

DATE:
07/01/26

PROJECT NO:
2028-059



EXTERIOR WALL SECTIONS

The contractor is to verify all dimensions, materials and, before starting work, with other drawings, specifications and work at the building and be responsible for any discrepancies or errors. All drawings are to be prepared on a standard grid of 1/4" increments.

JOB NO. 2834
 DATE 6-24-63
 12

ALTERATIONS AND ADDITIONS TO
ALBANY CENTRAL SCHOOL
ALBANY, NEW YORK
DUANE LYMAN & ASSOCIATES
 ARCHITECTS
 300 DELAWARE AVE. BUFFALO, N. Y.