

CL-773 GEMMELL IMPROVEMENTS

Clarion University of Pennsylvania
WTW Project #71-5025

ADDENDUM #2

01 April, 2016

SPECIFICATIONS

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ADD Section 068319 - Decorative Resin Panels
ADD Section 090160 - Refinishing Wood Floors
DELETE Section 101100 - Visual Display Surfaces
ADD Section 280513 - Conductors and Cables for Electronic Safety and Security
ADD Section 283111 - Digital, Addressable Fire-Alarm System.

SOLICITATION FOR CONSTRUCTION

Special Instructions to Bidders; BIDDING INFORMATION:

Bid Due Date/Time: Change Date to April 8, 2016; time remains the same (2:00 pm).

Bid Form (Addendum No. 1): Alternate No. 5: Change "Arcade 253" to read "Arcade 257". New bid forms are not being re-issued. Bidders are instructed to make this change on their submitted form.

TECHNICAL SPECIFICATIONS

Section 011000 – SUMMARY

Paragraph 1.02.A.1: After the words "new central wall feature element" add the words "with fireplace (alternate)".

Paragraph 1.02.A.1: Last sentence, after the words "location determined by the University" add the words "within the existing Gemmell building".

Paragraph 1.02.C.1; Add: "Plumbing Construction includes fire suppression system work."

Section 012300 – ALTERNATES

Paragraph 1.03.E; Change "Arcade 253" to read "Arcade 257".

Paragraph 1.03.J.b; Add: "Include in the alternate price the cost of replacing 100 square feet, full depth (insulation, decorative half rounds and finish system) of exterior insulation and finish system."

Section 015000 – TEMPORARY FACILITIES AND CONTROLS

Paragraph 1.02.C.2: Delete in its entirety.

Paragraph 1.10.B: Delete in its entirety.

Section 017123 – FIELD ENGINEERING

Paragraph 1.04: Delete in its entirety; a survey is not required.

Section 024119 – SELECTIVE STRUCTURE DEMOLITION

Paragraph 1.02.A: Add subparagraph 3 as follows:

"3. This section applies to each prime contract."

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Paragraph 1.08.A: Clarification: This paragraph applies to HVAC demolition work.

Section 068319 - DECORATIVE RESIN PANELS

ADD this section dated 03/29/2016, pages 1 and 2, which is attached to this addendum.

Section 090160 - REFINIHSING WOOD FLOORS

ADD this section dated 03/29/2016, pages 1 thru 5, which is attached to this addendum.

Section 097200 – WALL COVERINGS

Paragraph 2.02.B: Change “VW3” to read “VW6”.

Paragraph 2.02.B.5.a: Change to read as follows:

“5. Colors, Textures, and Patterns:

- a. VW1: Arc-Com Fabrics, Inc.; RAMI is basis of design.
- b. VW-2, VW-3, VW4 and VW6: Custom digital wallcovering as selected by Architect; Type II, matte emboss protected with abrasion and stain resistant top coat finish.
- c. VW-5: Arc Com or Wolf Gordon; pattern and color to be selected by Architect.”

Section 099600 – HIGH-PERFORMANCE COATINGS

Paragraph 1.02.A.1: Clarification: Refer to Paragraph 3.03.B of this section for “Schedule of Surfaces to be Coated” of the exterior substrates.”

Section 099670 – HIGH-BUILD WATERPROOF ACRYLIC COATING (Addendum No. 1)

Paragraph 1.1.A.2; Add: “Extent of repairs to include patching along top edge of decorative top, half-round accent with reinforcing mesh, base coat, and finish coat.”

Paragraph 2.2.A; Add:

- “2. Dryvit Systems.
3. Sto Corporation.”

Paragraph 2.3; Add:

“C. Repair Materials:

1. Reinforcing Mesh: Balanced, alkali-resistant, open-weave, glass-fiber mesh treated for compatibility with other EIFS materials, made from continuous multiend strands with retained mesh tensile strength of not less than 120 lbf/in. according to ASTM E 2098.
2. Base Coat: Standard mixture of factory-mixed noncementitious formulation of polymer-emulsion adhesive and inert fillers that is ready to use without adding other materials.
3. Finish Coat: Siliconized acrylic-based coating factory-mixed formulation of polymer-emulsion binder, colorfast mineral pigments, and fillers used with stone particles for embedding in finish coat to produce an applied-aggregate finish to match existing.”

Section 101100 – VISUAL DISPLAY BOARDS

Delete this section in its entirety.

Section 101400 – SIGNAGE

Paragraph 2.02.A; Add:

“17. Vista System; Clarion University’s Standard.”

Paragraph 2.02.B; Delete and insert the following:

“B. Interior Panel Signs: Vista Nova

1. Wall Mounted Frames: Wall mounted signs with the Vista frame extrusions using any flat, flexible substrate to create a curved-face sign.
2. Wall Frames: Extruded Aluminum of the sizes specified. This sign/product includes assembly. Style and size to match University’s standard.
3. Aluminum Frame Finish: Silver, Clear Anodized.
4. End Caps for Extrusions: Provided with matching screws.
 - a. Brushed aluminum.
5. Mounting: Mechanical with all mounting holes predrilled.”

Section 280513 - CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY

ADD this section dated 03/29/2016, pages 1 thru 4, which is attached to this addendum.

Section 283111 - DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

ADD this section dated 03/29/2016, pages 1 thru 7, which is attached to this addendum.

DRAWINGS

A1.1A – FIRST FLOOR PLAN WEST

1. Delete "SM COUNTER THIS AREA" note by column line Za in Rotunda 101
2. Add call out for wood bench enlarged plan detail

A1.1B – FIRST FLOOR PLAN EAST**

1. Revise note regarding alternate no. 6 for window film at windows along column line A between column lines 1-10 as follows:
“INSTALL WINDOW FILM ON FIRST FLOOR EXISTING GLAZING ALONG COLUMN LINE ‘A’ BETWEEN COLUMN LINES 1-10. FILM AT THIS LOCATION TO INCLUDE GRAPHICS FROM CAMERA READY ARTWORK PROVIDED BY OWNER”

A1.2A – SECOND FLOOR PLAN – WEST**

1. Delete illuminated logo and associated note located on curtainwall along column line 18 between column lines S-T. Logo is to be mounted as shown on A2.2 West Elevation.

A2.2 – BUILDING ELEVATIONS**

1. WEST ELEVATION: Illuminated logo to be mounted in front of EIFS raised belt

A5.2 – ENLARGED PLANS AND DETAILS

1. Revisions to 4/A5.2 Section – Banquette - trash
2. Revisions to 2/A5.2 Booths – Side View and Details resin panels
3. Add 5/A5.2 Enlarged Plan – Wood Bench

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A8.1 – DOOR SCHEDULE, WALL TYPES & DETAILS

2. Revisions to 2/A8.1 Detail – Wood Bench

A10.1A, A10.1B, A10.2A, A10.2B – FINISH PLANS**

1. FINISH SYMBOL MATERIAL CODES; DELETE: TB1, TB2 & TB3
2. FINISH SYMBOL MATERIAL CODES; REVISE fabric selections as follows:
 - FA1: SEAT FABRIC - BANQUETTE AT DINING: ARC COM, PATTERN: INTAGLIO 2, COLOR: AC-61410 COAL #21
 - FA2: BACK FABRIC - BANQUETTE AT DINING: CARNEGIE XOREL, PATTERN: VENEER EMBOSS S 6925, COLOR: 826, BACKING: X-PROTECT SIT
 - FA3: SEAT FABRIC - BOOTHS AT DINING: ARC COM, PATTERN: INTAGLIO 2, COLOR: AC-61410 COAL #21
 - FA4: BACK FABRIC - BOOTHS AT DINING: PATTERN: PRISM S 6621S, COLOR: 171, BACKING: X-PROTECT SIT
3. FINISH SYMBOL MATERIAL CODES; REVISE plastic laminate selections as follows:
 - PL2: PLASTIC LAMINATE - DINING - EXIST. BEVERAGE COUNTER: WILSONART LAMINATE, STYLE/COLOR: 7971K-12 UPTOWN WALNUT, PREMIUM AEON
 - PL3: PLASTIC LAMINATE - DINING - BOOTHS, BANQUETTE: WILSONART LAMINATE, STYLE/COLOR: 7971K-12 UPTOWN WALNUT, PREMIUM AEON
4. Vinyl Wall coverings shown on these sheets are under Alternate 5
5. Sheet A10.2A – Note for stair finish “*CT4 AND EMBEDDED SCHLUTER TREP-E TRIM AT STAIR TREADS. TYP.*” ADD: “*AND RISERS*”
6. Sheet A10.2B – DELETE CA8 from MEETING ROOM 246, refinish wood floors.

A12.3 – SIGNAGE SCHEDULE & DETAILS

1. Sign T – ADD: Grade 2 Braille
2. ADD: Sign N - Directory

E1.2 – SECOND LEVEL - POWER**

1. DELETE furniture feed shown along column line C between 5-6. ADD 4 duplex outlets to be installed on chase wall.
2. The electrical contractor shall supply a lockable toggle switch above the ceiling near Column Line T and 17a and connect it to the circuit serving the new logo sign.

Note: ** after the Drawing name indicates that the Drawing is not reissued at this time due to the minor nature of the change.

END OF ADDENDUM #2

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SECTION 068319
DECORATIVE RESIN PANELS

1. GENERAL**1.1 SUMMARY**

- A. Section Includes:
1. Decorative resin panels and accessories.

1.2 ACTION SUBMITTALS

- A. Product Data: Submit manufacturer's product data; include product description, fabrication information, and compliance with specified performance requirements.
- B. Shop Drawings: Include plans, elevations, sections, panel dimensions, details, and attachments to other work.
- C. Samples for Initial Selection:
1. Submit minimum 2-inch by 2-inch samples. Indicate full color, texture and pattern variation.
- D. Samples for Verification:
1. Submit minimum 4-inch by 4-inch sample for each type, texture, pattern and color of solid plastic fabrication.
 2. Samples of each type of support/attachment hardware.
- E. Maintenance Data: Submit manufacturer's care and maintenance data, including care, repair and cleaning instructions. Include in Project closeout documents.

1.3 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide original fire test reports to ensure compliance with the following requirements:
1. Rate of Burning:
 - a. ASTM D635 Class: CC1 for a nominal thickness of 1.5 mm (0.060 in.)
 2. Self-Ignition Temperature:
 - a. ASTM D1929: greater than 650 °F
 3. Density of Smoke:
 - a. ASTM D2843: Less than 75%
 4. Flammability Classification:
 - a. ASTM E-84: Smoke less than 450, Flame spread less than 75.
- B. Impact Resistance: Provide Solid Polymer Fabrications that comply with the following requirements:
1. Impact Strength, Un-notched (23°), ASTM D4812: No breakage
 2. Impact Strength, Notched (23°), ASTM D526: 88J/m (1/16)
- C. Allowable Tolerances
1. Maximum deflection: 1/16" over 12"

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver resin panels, systems and specified items in manufacturer's standard protective packaging.
- B. Do not deliver resin panels, system, components and accessories to Project site until areas are ready for installation.
- C. Store materials in a flat orientation in a dry place that is not exposed to exterior elements.

- D. Handle materials to prevent damage to finished surfaces. Provide protective coverings to prevent damage or staining following installation for duration of project.
- E. Before installing resin panels, permit them to reach room temperature.

1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install resin panel System until spaces are enclosed and weatherproof, and ambient temperatures and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.6 WARRANTY

- A. Manufacturer's Special Warranty on Resin Panel System: Manufacturer's standard form agreeing to repair or replace units that fail in material within the specified warranty period.
- B. Warranty Period: 1 year.

2. PRODUCTS

2.1 BASIS OF DESIGN

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. Varia Ecoresin as manufactured by 3Form, Inc. is basis of design.
 2. Subject to compliance with requirements, equivalent products of alternative manufacturers will be considered for approval.
 - a. Lightblocks, Inc.
- B. Fire-test-response characteristics noted in Part 1 must be substantiated with original test results for manufacturers' products. Generic tests, which do not specifically refer to manufacturer, will not be accepted.

2.2 PANELS

- A. Varia Ecoresin Resin Sheet
 1. Color, Pattern and Collection:
 - a. Collection: Varia Ecoresin
 - b. Pattern/Style: Paper Lane
 - c. Gauge: 1/2"
 - d. Front and Back Finish: Sandstone
 - e. Pattern: Linear
 - f. Pattern Direction: Parallel to 4'.
- B. Engineered Polyester Resin Sheet - Varia Ecoresin:
 1. Interlayer Materials: Compatible with polyesters and bonding process to create a monolithic sheet of material when complete.
 2. Sheet minimum performance attributes:
 - a. Rate of Burning (ASTM D 635). Material must attain CC1 Rating for a nominal thickness of 0.060 in. and greater.
 - b. Self-Ignition Temperature (ASTM D 1929). Material must have a Self-ignition temperature greater than 650 °F.
 - c. Density of Smoke (ASTM D 2843). Material must have a smoke density less than 75%.
 - d. Flame spread and Smoke developed testing (ASTM E 84). Material must be able to meet a level of Class A (Flame spread less than 25 and smoke less than 450) at thickness of 1".
 - e. Room Corner Burn Test (NFPA 286). Material must meet Class A criteria at 1/4" thickness as described by the 2003 International Building Code.

- f. Extent of Burning (UL 94). Must submit UL card.
 - g. Impact strength. Minimum impact strength test as measured by ASTM D 3763 of 20 ft. lbs. (for durability, shipping, installation, and use).
 - h. Safety Glazing. Material must attain a Class A impact rating in accordance with ANSI Z97.1-2004 at 1/8" thickness.
 - i. UPIIT Test for Combustion Product Toxicity: Product must be recorded as "not more toxic than wood".
 - j. Dynamic environmental testing (ASTM standards D 5116 and D 6670). Panels must not have detectable VOC off-gassing agents and must be have Greenguard™ Indoor Air Quality certified.
 - k. Panels must be produced from a minimum of 40% post-industrial recycle content. Recycle content must be certified by a recognized 3rd party certification group, such as Scientific Certification Systems (SCS).
- C. Flatness Tolerance
- 1. Not distortion in the form of a wrinkle, twist or scallop along the perimeter of the sheet.
 - 2. Overall warp extending across the sheet is permitted to a maximum of 9/32" for each 48" or fraction thereof.
 - a. Panel is to be measured when laying horizontally under its own weight on a flat continuous surface.

2.3 FABRICATION

- A. Fabricate Resin Panel System to designs, sizes and thicknesses indicated and to comply with indicated standards. Sizes, profiles and other characteristics are indicated on the drawings.
- B. Comply with manufacturer's written recommendations for fabrication.
- C. Machining: Acceptable means of machining are listed below. Ensure that material is not chipped or warped by machining operations.
 - 1. Sawing: Select equipment and blades suitable for type of cut required.
 - 2. Drilling: Drills specifically designed for use with plastic products.
 - 3. Milling: Climb cut where possible.
 - 4. Routing
 - 5. Tapping
- D. Forming: Form products to shapes indicated using the appropriate method listed below. Comply with manufacturer's written instructions.
 - 1. Cold Bending
 - 2. Hot Bending
 - 3. Thermoforming: Acceptable only on uncoated material.
 - 4. Drape Forming
 - 5. Matched Mold Forming
 - 6. Mechanical Forming
- E. Laminating: Laminate to substrates indicated using adhesives and techniques recommended by manufacturer.

2.4 MISCELLANEOUS MATERIALS

- A. Provide products of material, size, and shape required for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaner: Type recommended by manufacturer.
- C. Bonding Cements: May be achieved with solvents or adhesives, suitable for use with product and application.

- D. Fasteners: Use screws designed for specifically for plastics. Self-threading screws are acceptable for permanent installations. Provide threaded metal inserts for applications requiring frequent disassembly such as light fixtures.
- E. Trim Accessories:
 - 1. Perimeter Frame: Cold formed steel C-channel frame, minimum 16 gage; ½ inch x ½ inch x ½ inch frame at top and sides; 1 inch x ½ inch x 1 inch at bottom; tight mitered corners at top; tight butt joints at bottom; clear coated natural steel finish.
- F. Sealant: Mildew-resistant, single-component, neutral-curing silicone sealant recommended by plastic paneling manufacturer and complying with requirements in Section 079200 "Joint Sealants."

3. EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where installation of resin panels will occur, with Installer present, for compliance with manufacturer's requirements. Verify that substrates and conditions are satisfactory for installation and comply with requirements specified.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare substrate for panel installation.
- B. Clean substrates of substances that could impair adhesive bond, including oil, grease, dirt, and dust.
- C. Condition panels by unpacking and placing in installation space before installation according to manufacturer's written recommendations.
- D. Lay out paneling before installing. Locate panel joints to provide equal panels at ends of walls not less than half the width of full panels so that trimmed panels at corners are not less than 12 inches wide.

3.3 INSTALLATION

- A. Comply with manufacturer's written instructions for the installation of Resin Panel System.
- B. Manufacturer's shop to fabricate items to the greatest degree possible.
- C. Utilize fasteners, adhesives and bonding agents recommended by manufacturer for type of installation indicated. Material that is chipped, warped, hazed or discolored as a result of installation or fabrication methods will be rejected.
- D. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.
- E. Form field joints using manufacturer's recommended procedures. Locate seams in panels so that they are not directly in line with seams in substrates.
- F. Comply with manufacturer's written instructions for the installation of Resin Panel System.
- G. Manufacturer's shop to fabricate items to the greatest degree possible.
- H. Utilize fasteners, adhesives and bonding agents recommended by manufacturer for type of installation indicated. Material that is chipped, warped, hazed or discolored as a result of installation or fabrication methods will be rejected.
- I. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.

- J. Form field joints using manufacturer's recommended procedures. Locate seams in panels so that they are not directly in line with seams in substrates.

3.4 CLEANING AND PROTECTION

- A. Protect surfaces from damage until date of substantial completion. Repair work or replace damaged work, which cannot be repaired to Architect's satisfaction.

END OF SECTION 068319

SECTION 090160
REFINISHING WOOD FLOORS

1. GENERAL**1.1 SUMMARY**

- A. Work of this section is refinishing of existing wood floors.
- B. Repair, sand, and refinish existing hardwood floors. Removal and reinstallation of existing vent cove base.
- C. Provide labor, supervision, materials, tools, equipment, transportation and means of construction necessary to complete the work.

1.2 WORK INCLUDED

- A. Sand floors with heavy duty drum-type sander using rough, medium, and fine grade paper to remove all traces of finishes, to white wood. Tack floor to ensure removal of all dust, sealed with two (2) coats of sealer, allowed to dry then resanded with screen back to 120 to remove all burrs or raised grain. Intent of this work is to restore the floor to a single monolithic even surface. Transparent finish applied to wood floor shall have absolutely no texture and is to be glass-like in appearance.
- B. After proper drying time, two (2) coats of finish will be applied, buffing and tacking the floor between each coat.

1.3 ACTION SUBMITTALS

- A. Product Data for each required material.

1.4 GUARANTEE

- A. Guarantee the work and remedy without cost to the University any defects that may develop during a period of one (1) year from date of completion and acceptance.

2. PRODUCTS**2.1 MANUFACTURERS**

- A. Sherwin-Williams Company
- B. Hillyard, Incorporated.
- C. Bona US, Incorporated.
- D. Basic Coatings.
- E. Poloplaz, Inc.

2.2 MATERIALS

- A. Wood Flooring Sealer: Penetrating low VOC waterborne polyurethane sealer with coverage rate of 500 sq. ft. per gal.
 - 1. UL classified for slip resistance, 186S.
 - 2. Approved by NFMA.
 - 3. Equal to Sherwin-Williams "DuraClear Sealer."
- B. Wood Flooring Finish: Waterbourne polyurethane base product that will not darken or yellow with age.
 - 1. UL classified for slip resistance, 186S.
 - 2. Approved by NFMA.

3. Equal to Sherwin-Williams "DuraSeal Waterbased Polyurethane Finish."
- C. Base: Re-use existing.
- D. Threshold: Extruded, mill finish aluminum, saddle type; size as required to cover expansion but no less than 4 inches wide. Re-use of existing threshold, if undamaged, is permitted.

3. EXECUTION

3.1 PREPARATION

- A. Cover and protect air handling equipment and ducts from dust infiltration.
- B. Protect elements surrounding work area from damage or disfiguration.

3.2 REFINISHING

- A. All work shall be performed by skilled workpersons under the supervision of an experienced foreman. All work shall be in accordance with the manufacturer's application specifications. Certification of proper application from manufacturer shall be submitted to the Architect before final approval and acceptance is granted.
- B. Sanding is to be done with heavy power-driven drum type sander.
- C. Vacuum entire floor area with heavy-duty commercial type vacuum. Tack wipe entire floor using cleaning solvent.
- D. Seal Wood Floor: Using a lambswool applicator, or manufacturer's approved equal, apply two coats of sealer over entire floor by first applying "crossgrain" and then smoothing out with the grain.
- E. Finish Coats - Two Coats: Using a lambswool applicator, or manufacturer's approved equal, apply an even coat of finish in same direction as wood grain.
- F. Provide threshold at centerline of door openings and where flooring terminates with other floor areas.
- G. Install vent cove base anchored to walls with base cement in accord with manufacturer's instructions. Use pre-molded outside corners and neatly mitered inside corners.
- H. Prohibit traffic on floor surfaces for at least 48 hours.

END OF SECTION 090160

SECTION 280513 - CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Fire alarm wire and cable.
 - 2. Identification products.

1.3 DEFINITIONS

- A. EMI: Electromagnetic interference.
- B. IDC: Insulation displacement connector.
- C. Low Voltage: As defined in NFPA 70 for circuits and equipment operating at less than 50 V or for remote-control and signaling power-limited circuits.
- D. Open Cabling: Passing telecommunications cabling through open space (e.g., between the studs of a wall cavity).
- E. RCDD: Registered Communications Distribution Designer.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: 25 or less.
 - 2. Smoke-Developed Index: 50 or less.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 BACKBOARDS

- A. Backboards: Plywood, fire-retardant treated, 3/4 by 48 by 96 inches. Comply with requirements for plywood backing panels in Section 061000 "Rough Carpentry."

2.3 FIRE ALARM WIRE AND CABLE

- A. General Wire and Cable Requirements: NRTL listed and labeled as complying with NFPA 70, Article 760.
- B. Signaling Line Circuits: Twisted, shielded pair as recommended by system manufacturer.
 - 1. Circuit Integrity Cable: Twisted shielded pair, NFPA 70, Article 760, Classification CI, for power-limited fire alarm signal service Type FPL. NRTL listed and labeled as complying with UL 1424 and UL 2196 for a two-hour rating.
- C. Non-Power-Limited Circuits: Solid-copper conductors with 600-V rated, 75 deg C, color-coded insulation, and complying with requirements in UL 2196 for a two-hour rating.
 - 1. Low-Voltage Circuits: No. 16 AWG, minimum, in pathway.
 - 2. Line-Voltage Circuits: No. 12 AWG, minimum, in pathway.
 - 3. Multiconductor Armored Cable: NFPA 70, Type MC, copper conductors, Type TFN/THHN conductor insulation, copper drain wire, copper armor with red identifier stripe, NRTL listed for fire alarm and cable tray installation, plenum rated.

PART 3 - EXECUTION

3.1 INSTALLATION OF HANGERS AND SUPPORTS

- A. Comply with requirements in Section 260529 "Hangers and Supports for Electrical Systems" for installation of supports for cables.

3.2 WIRING METHOD

- A. Install wiring in metal pathways and wireways.
- B. Install cable, concealed in accessible ceilings, walls, and floors when possible.

3.3 INSTALLATION OF CONDUCTORS AND CABLES

- A. Comply with NECA 1 and NFPA 70.
- B. Conductors: Size according to system manufacturer's written instructions unless otherwise indicated.
- C. Do not install conductors and cables that are wet, moisture damaged, or mold damaged.
- D. General Requirements for Cabling:
 - 1. Maintain minimum cable bending radius during installation and termination of cables.

2. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.

3.4 FIRE ALARM WIRING INSTALLATION

- A. Comply with NECA 1 and NFPA 72.
- B. Wiring Method: Install wiring in metal pathway according to Section 280528 "Pathways for Electronic Safety and Security."
 1. Install plenum cable in environmental air spaces, including plenum ceilings.
 2. Fire alarm circuits and equipment control wiring associated with the fire alarm system shall be installed in a dedicated pathway system. This system shall not be used for any other wire or cable.
- C. Wiring Method:
 1. Cables and pathways used for fire alarm circuits, and equipment control wiring associated with the fire alarm system, may not contain any other wire or cable.
 2. Fire-Rated Cables: Use of two-hour, fire-rated fire alarm cables, NFPA 70, Types MI and CI, is permitted.
 3. Signaling Line Circuits: Power-limited fire alarm cables may be installed in the same cable or pathway as signaling line circuits.
- D. Wiring within Enclosures: Separate power-limited and non-power-limited conductors as recommended by manufacturer. Install conductors parallel with or at right angles to sides and back of the enclosure. Bundle, lace, and train conductors to terminal points with no excess. Connect conductors that are terminated, spliced, or interrupted in any enclosure associated with the fire alarm system to terminal blocks. Mark each terminal according to the system's wiring diagrams. Make all connections with approved crimp-on terminal spade lugs, pressure-type terminal blocks, or plug connectors.
- E. Cable Taps: Use numbered terminal strips in junction, pull, and outlet boxes, cabinets, or equipment enclosures where circuit connections are made.
- F. Color Coding: Color code fire alarm conductors differently from the normal building power wiring. Use one color code for alarm circuit wiring and another for supervisory circuits. Color code audible alarm-indicating circuits differently from alarm-initiating circuits. Use different colors for visible alarm-indicating devices. Paint fire alarm system junction boxes and covers red.
- G. Risers: Install at least two vertical cable risers to serve the fire alarm system. Separate risers in close proximity to each other with a minimum one-hour-rated wall, so the loss of one riser does not prevent the receipt or transmission of signals from other floors or zones.
- H. Wiring to Remote Alarm Transmitting Device: 1-inch conduit between the fire alarm control panel and the transmitter. Install number of conductors and electrical supervision for connecting wiring as needed to suit monitoring function.

3.5 CONNECTIONS

- A. Comply with requirements in Section 283111 "Digital, Addressable Fire-Alarm System" for connecting, terminating, and identifying wires and cables.
- B. Comply with requirements in Section 283500 "Refrigerant Detection and Alarm" for connecting, terminating, and identifying wires and cables.

3.6 FIRESTOPPING

- A. Comply with requirements in Section 078413 "Penetration Firestopping."
- B. Comply with TIA-569-C, "Firestopping" Annex A.
- C. Comply with BICSI TDMM, "Firestopping Systems" Article.

3.7 GROUNDING

- A. For communication wiring, comply with J-STD-607-A and with BICSI TDMM's "Grounding, Bonding, and Electrical Protection" chapter.
- B. For low-voltage wiring and cabling, comply with requirements in Section 280526 "Grounding and Bonding for Electronic Safety and Security."

3.8 IDENTIFICATION

- A. Identify system components, wiring, and cabling complying with TIA-606-B. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

END OF SECTION 280513

SECTION 283111 - DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Manual fire-alarm boxes.
- 2. Notification appliances.
- 3. Network communications.

- B. Related Requirements:

- 1. Section 280513 "Conductors and Cables for Electronic Safety and Security" for cables and conductors for fire-alarm systems.

1.3 DEFINITIONS

- A. EMT: Electrical Metallic Tubing.
- B. FACP: Fire Alarm Control Panel.
- C. HLI: High Level Interface.
- D. NICET: National Institute for Certification in Engineering Technologies.
- E. PC: Personal computer.
- F. VESDA: Very Early Smoke-Detection Apparatus.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product, including furnished options and accessories.

- 1. Include construction details, material descriptions, dimensions, profiles, and finishes.
- 2. Include rated capacities, operating characteristics, and electrical characteristics.

- B. Shop Drawings: For fire-alarm system.

- 1. Comply with recommendations and requirements in the "Documentation" section of the "Fundamentals" chapter in NFPA 72.
- 2. Include plans, elevations, sections, details, and attachments to other work.

3. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and locations. Indicate conductor sizes, indicate termination locations and requirements, and distinguish between factory and field wiring.
4. Detail assembly and support requirements.
5. Include statement from manufacturer that all equipment and components have been tested as a system and meet all requirements in this Specification and in NFPA 72.
6. Include performance parameters and installation details for each detector.

C. General Submittal Requirements:

1. Submittals shall be approved by authorities having jurisdiction prior to submitting them to Architect.

D. Delegated-Design Submittal: For notification appliances and smoke and heat detectors, in addition to submittals listed above, indicate compliance with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1. Drawings showing the location of each notification appliance and smoke and heat detector, ratings of each, and installation details as needed to comply with listing conditions of the device.
2. Design Calculations: Calculate requirements for selecting the spacing and sensitivity of detection, complying with NFPA 72. Calculate spacing and intensities for strobe signals and sound-pressure levels for audible appliances.
3. Indicate audible appliances required to produce square wave signal per NFPA 72.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

1.6 Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals.

1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following and deliver copies to authorities having jurisdiction:
 - a. Comply with the "Records" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.
 - b. Provide "Fire Alarm and Emergency Communications System Record of Completion Documents" according to the "Completion Documents" Article in the "Documentation" section of the "Fundamentals" chapter in NFPA 72.
 - c. Complete wiring diagrams showing connections between all devices and equipment. Each conductor shall be numbered at every junction point with indication of origination and termination points.
 - d. Riser diagram.
 - e. Device addresses.
 - f. Record copy of site-specific software.

- g. Provide "Inspection and Testing Form" according to the "Inspection, Testing and Maintenance" chapter in NFPA 72, and include the following:
 - 1) Equipment tested.
 - 2) Frequency of testing of installed components.
 - 3) Frequency of inspection of installed components.
 - 4) Requirements and recommendations related to results of maintenance.
 - 5) Manufacturer's user training manuals.
- h. Manufacturer's required maintenance related to system warranty requirements.
- i. Abbreviated operating instructions for mounting at fire-alarm control unit and each annunciator unit.

B. Software and Firmware Operational Documentation:

- 1. Software operating and upgrade manuals.
- 2. Program Software Backup: On magnetic media or compact disk, complete with data files.
- 3. Device address list.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.

1.9 PROJECT CONDITIONS

- A. Perform a full test of the existing system prior to starting work. Document any equipment or components not functioning as designed.
- B. Interruption of Existing Fire-Alarm Service: Do not interrupt fire-alarm service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary guard service according to requirements indicated:
 - 1. Notify Owner no fewer than seven (7) days in advance of proposed interruption of fire-alarm service.
 - 2. Do not proceed with interruption of fire-alarm service without Owner's written permission.
- C. Use of Devices during Construction: Protect devices during construction unless devices are placed in service to protect the facility during construction.

1.10 SEQUENCING AND SCHEDULING

- A. Existing Fire-Alarm Equipment: Maintain existing equipment fully operational until new equipment has been tested and accepted. As new equipment is installed, label it "NOT IN SERVICE" until it is accepted. Remove labels from new equipment when put into service, and label existing fire-alarm equipment "NOT IN SERVICE" until removed from the building.
- B. Equipment Removal: After acceptance of new fire-alarm system, remove existing disconnected fire-alarm equipment and wiring.

1.11 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace fire-alarm system equipment and components that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Extent: All equipment and components not covered in the Maintenance Service Agreement.
 - 2. Warranty Period: Five (5) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Source Limitations for Fire-Alarm System and Components: Components shall be compatible with, and operate as an extension of, existing system. Provide system manufacturer's certification that all components provided have been tested as, and will operate as, a system.
- B. Noncoded, UL-certified addressable system, with multiplexed signal transmission and horn/strobe evacuation.
- C. Automatic sensitivity control of certain smoke detectors.
- D. All components provided shall be listed for use with the selected system.
- E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- F. Fire-alarm signal shall initiate the following actions:
 - 1. Continuously operate alarm notification appliances
 - 2. Identify alarm and specific initiating device at fire-alarm control unit, connected network control panels, off-premises network control panels, and remote annunciators.
 - 3. Transmit an alarm signal to the remote alarm receiving station.
 - 4. Unlock electric door locks in designated egress paths.
 - 5. Release fire and smoke doors held open by magnetic door holders.
 - 6. Activate voice/alarm communication system.
 - 7. Switch heating, ventilating, and air-conditioning equipment controls to fire-alarm mode.
 - 8. Close smoke dampers in air ducts of designated air-conditioning duct systems.
 - 9. Recall elevators to primary or alternate recall floors.
 - 10. Activate elevator power shunt trip.
 - 11. Activate emergency lighting control.
 - 12. Activate emergency shutoffs for gas and fuel supplies.
 - 13. Record events in the system memory.
 - 14. Record events by the system printer.
 - 15. Indicate device in alarm on the graphic annunciator.
- G. Supervisory signal initiation shall be by one or more of the following devices and actions:
 - 1. Valve supervisory switch.
 - 2. High- or low-air-pressure switch of a dry-pipe or preaction sprinkler system.
 - 3. Alert and Action signals of air-sampling detector system.
 - 4. Elevator shunt-trip supervision.
 - 5. Independent fire-detection and -suppression systems.

6. User disabling of zones or individual devices.
7. Loss of communication with any panel on the network.

H. System trouble signal initiation shall be by one or more of the following devices and actions:

1. Open circuits, shorts, and grounds in designated circuits.
2. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
3. Loss of communication with any addressable sensor, input module, relay, control module, remote annunciator, printer interface, or Ethernet module.
4. Loss of primary power at fire-alarm control unit.
5. Ground or a single break in internal circuits of fire-alarm control unit.

I. System Supervisory Signal Actions:

1. Initiate notification appliances.
2. Identify specific device initiating the event at fire-alarm control unit, connected network control panels, off-premises network control panels, and remote annunciators.
3. Record the event on system printer.
4. Transmit system status to building management system.
5. Display system status on graphic annunciator.

2.2 MANUAL FIRE-ALARM BOXES

A. Match existing system manufacturer

B. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38. Boxes shall be finished in red with molded, raised-letter operating instructions in contrasting color; shall show visible indication of operation; and shall be mounted on recessed outlet box. If indicated as surface mounted, provide manufacturer's surface back box.

1. Single-action mechanism, pull-lever type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.
2. Station Reset: Key- or wrench-operated switch.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions for compliance with requirements for ventilation, temperature, humidity, and other conditions affecting performance of the Work.

1. Verify that manufacturer's written instructions for environmental conditions have been permanently established in spaces where equipment and wiring are installed, before installation begins.

B. Examine roughing-in for electrical connections to verify actual locations of connections before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 EQUIPMENT INSTALLATION

- A. Comply with NFPA 72, NFPA 101, and requirements of authorities having jurisdiction for installation and testing of fire-alarm equipment. Install all electrical wiring to comply with requirements in NFPA 70 including, but not limited to, Article 760, "Fire Alarm Systems."
 - 1. Devices placed in service before all other trades have completed cleanup shall be replaced.
 - 2. Devices installed but not yet placed in service shall be protected from construction dust, debris, dirt, moisture, and damage according to manufacturer's written storage instructions.
- B. Connecting to Existing Equipment: Verify that existing fire-alarm system is operational before making changes or connections.
 - 1. Connect new equipment to existing control panel in existing part of the building.
 - 2. Connect new equipment to existing monitoring equipment at the supervising station.
 - 3. Expand, modify, and supplement existing control equipment as necessary to extend existing control functions to the new points. New components shall be capable of merging with existing configuration without degrading the performance of either system.
- C. Manual Fire-Alarm Boxes:
 - 1. Install manual fire-alarm box in the normal path of egress within 60 inches of the exit doorway.
 - 2. Mount manual fire-alarm box on a background of a contrasting color.
 - 3. The operable part of manual fire-alarm box shall be between 42 inches and 48 inches above floor level. All devices shall be mounted at the same height unless otherwise indicated.
- D. Audible Alarm-Indicating Devices: Install not less than 6 inches below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille. Install all devices at the same height unless otherwise indicated.
- E. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at least 6 inches below the ceiling. Install all devices at the same height unless otherwise indicated.

3.3 PATHWAYS

- A. Pathways above recessed ceilings and in nonaccessible locations may be routed exposed.
 - 1. Exposed pathways located less than 96 inches above the floor shall be installed in EMT.
- B. Pathways shall be installed in EMT.
- C. Exposed EMT shall be painted red enamel.

3.4 IDENTIFICATION

- A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

3.5 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
- B. Perform tests and inspections.
 - 1. System Testing: Comply with the "Test Methods" table in the "Testing" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.
 - 2. Test audible appliances for the public operating mode according to manufacturer's written instructions. Perform the test using a portable sound-level meter complying with Type 2 requirements in ANSI S1.4.
 - 3. Test audible appliances for the private operating mode according to manufacturer's written instructions.
 - 4. Test visible appliances for the public operating mode according to manufacturer's written instructions.
- C. Reacceptance Testing: Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.
- D. Fire-alarm system will be considered defective if it does not pass tests and inspections.
- E. Prepare test and inspection reports.
- F. Maintenance Test and Inspection: Perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.

END OF SECTION 283111

SYMBOL LEGEND

- VIEW REFERENCE SYMBOL**
 1 / A101 → DETAIL NUMBER
 DRAWING NUMBER
- DETAIL/ENLARGED PLAN SYMBOL**
 INDICATED DETAIL MAY, OR MAY NOT BE EXACTLY THE SAME - TYP
- WALL SECTION/DETAIL SYMBOL**
 1 / A101 → DETAIL NUMBER
 DRAWING NUMBER
- BUILDING SECTION/DETAIL SYMBOL**
 1 / A101 → DETAIL NUMBER
 DRAWING NUMBER
- EXTERIOR ELEVATION SYMBOL**
 1 / A101 → DETAIL NUMBER
 DRAWING NUMBER
- INTERIOR ELEVATION SYMBOL**
 4 / A2.1 / 2 → DETAIL NUMBER
 DRAWING NUMBER
- DOOR SYMBOL**
 ROOM NUMBER
 DOOR NUMBER
 SEPARATOR

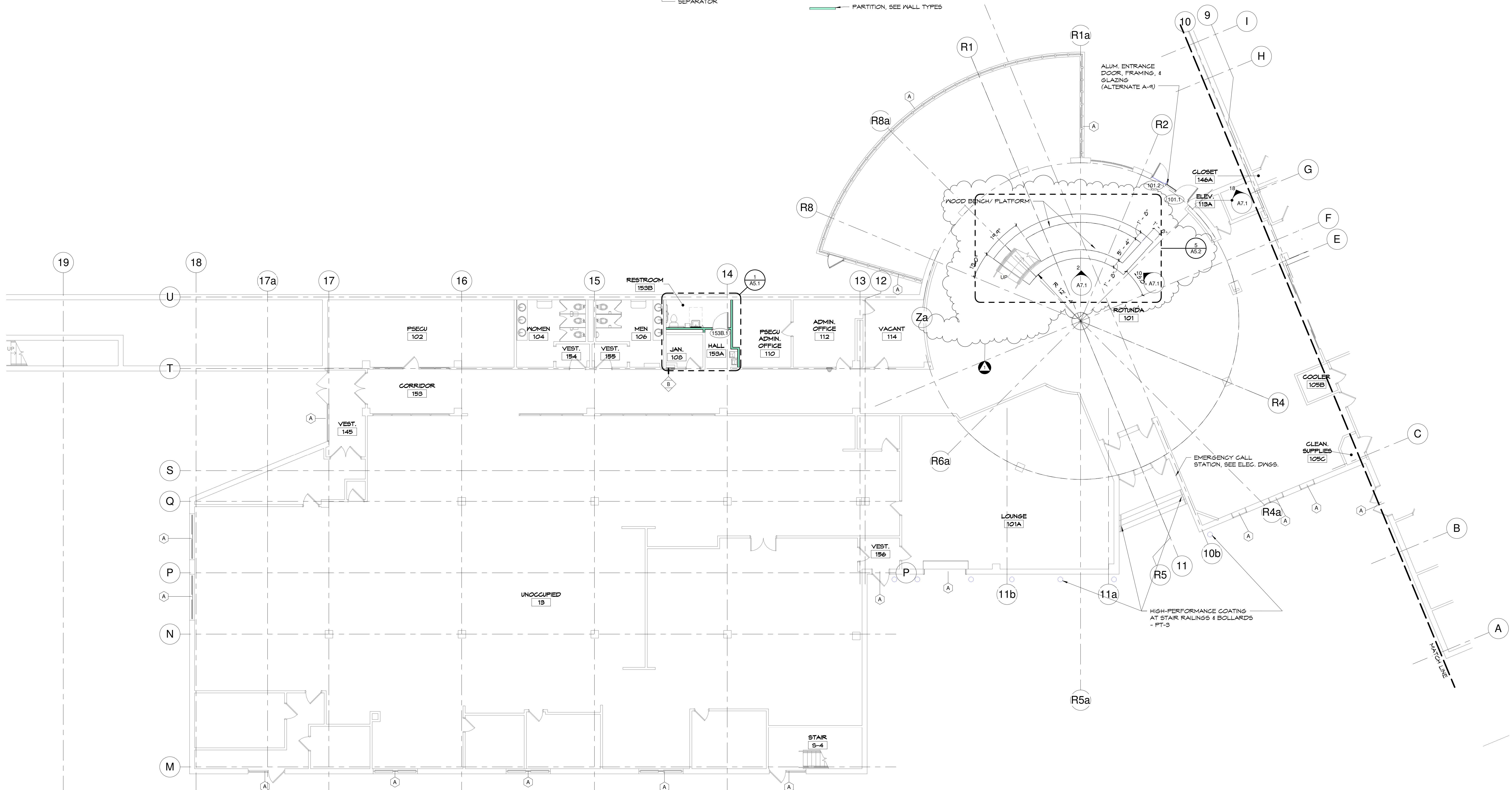
- EXTERIOR FINISH SYMBOL**
 (A) → HIGH PERFORMANCE COATING ON EXISTING WINDOWS, DOORS & FRAMES - FT-3 AT GLAZED FRAMES & DOORS REMOVE EXISTING SEALANT & BACKER ROD, CLEAN, PREPARE JOINTS & INSTALL JOINT SEALANT & BACKER ROD
- ROOM SYMBOL**
 101 → ROOM NUMBER
- BRACKET MTD FIRE EXTINGUISHER
 → SURFACE MTD FIRE EXTINGUISHER CABINET
 → EXISTING SEMI-RECESSED FIRE EXTINGUISHER CABINET
 → ROOF DRAIN
 → FLOOR DRAIN
 → TRENCH DRAIN
 → HG CLEARANCE - TYPICAL
 → DOUBLE ELECTRIC WATER COOLER
 → REVISION SYMBOL
 0 → COLUMN GRID
 9'-0" → SPOT ELEVATION SYMBOL
 → MATCH LINE
 → EXISTING PARTITION TO REMAIN
 → PARTITION, SEE WALL TYPES

PARTITION TYPE SYMBOL LEGEND

- PARTIAL HEIGHT PARTITION - SEE PLAN FOR HEIGHT
 → EXTEND STUDS & GMB TO UNDERSIDE OF FINISH CEILING OR OTHER CONSTRUCTION, U.O.N.
 → EXTEND STUDS TO UNDERSIDE OF DECK ABOVE, EXTEND GMB TO 6" ABOVE FINISH CEILING U.O.N.
 → EXTEND STUDS & GMB TO UNDERSIDE OF DECK ABOVE U.O.N.
- DESIGNATION KEY**
 PARTITION TYPE AS NOTED ("A", "B", ETC.) WITH SOUND ATTENUATION BLANKET IF NOTED ("S")
 FIRE RATINGS IF NOTED ("1" HOUR, "2" HOUR, ETC.; "S" FOR SMOKE PARTITION)

GENERAL ARCH. NOTES

- DO NOT SCALE DRAWINGS. VERIFY ALL EXISTING CONDITIONS AT SITE BEFORE PROCEEDING WITH WORK.
- ANY CONFLICT OR DISCREPANCY BETWEEN INFORMATION ON DRAWINGS AND ACTUAL FIELD CONDITIONS SHOULD BE BROUGHT TO ARCHITECTS' ATTENTION FOR RESOLUTION PRIOR TO COMMENCING WITH WORK.
- PARTITION DIMENSIONS INDICATED ARE TO FACE OF GMB, CONCRETE, OR UNIT MASONRY.
- RABBET EDGE OF HINGE SIDE OF DOOR FRAME IS TYPICALLY 4" FROM NEAREST PERPENDICULAR WALL, UCN.
- ALL PARTITIONS SHALL BE METAL STUDS AND GMB EXTENDING TO UNDERSIDE OF DECK ABOVE, UON; REFER TO A8.1 FOR WALL TYPE DESCRIPTIONS.
- ALL FURNITURE AND OFFICE EQUIPMENT, I.E. FILE CABINETS, SHOWN IS FOR INFORMATIONAL PURPOSES ONLY AND IS N.G., UNLESS OTHERWISE NOTED.



FIRST FLOOR PLAN - WEST
 1/8" = 1'-0"

Rev.	Date	Comment
1	04/01/16	Addendum 02

ISSUED: February 22, 2016

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KEY PLAN

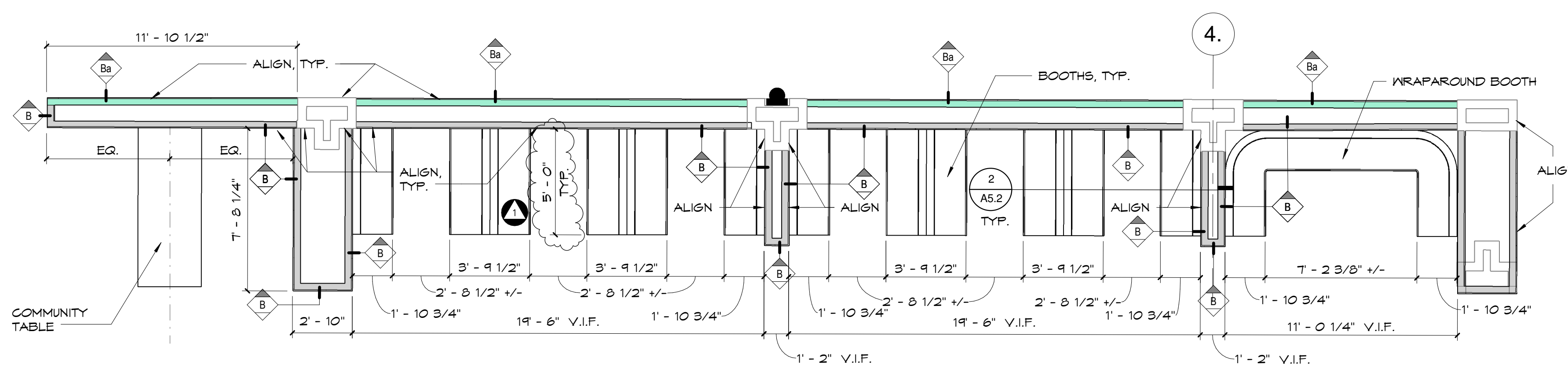
First Floor Plan - West

Construction Documents

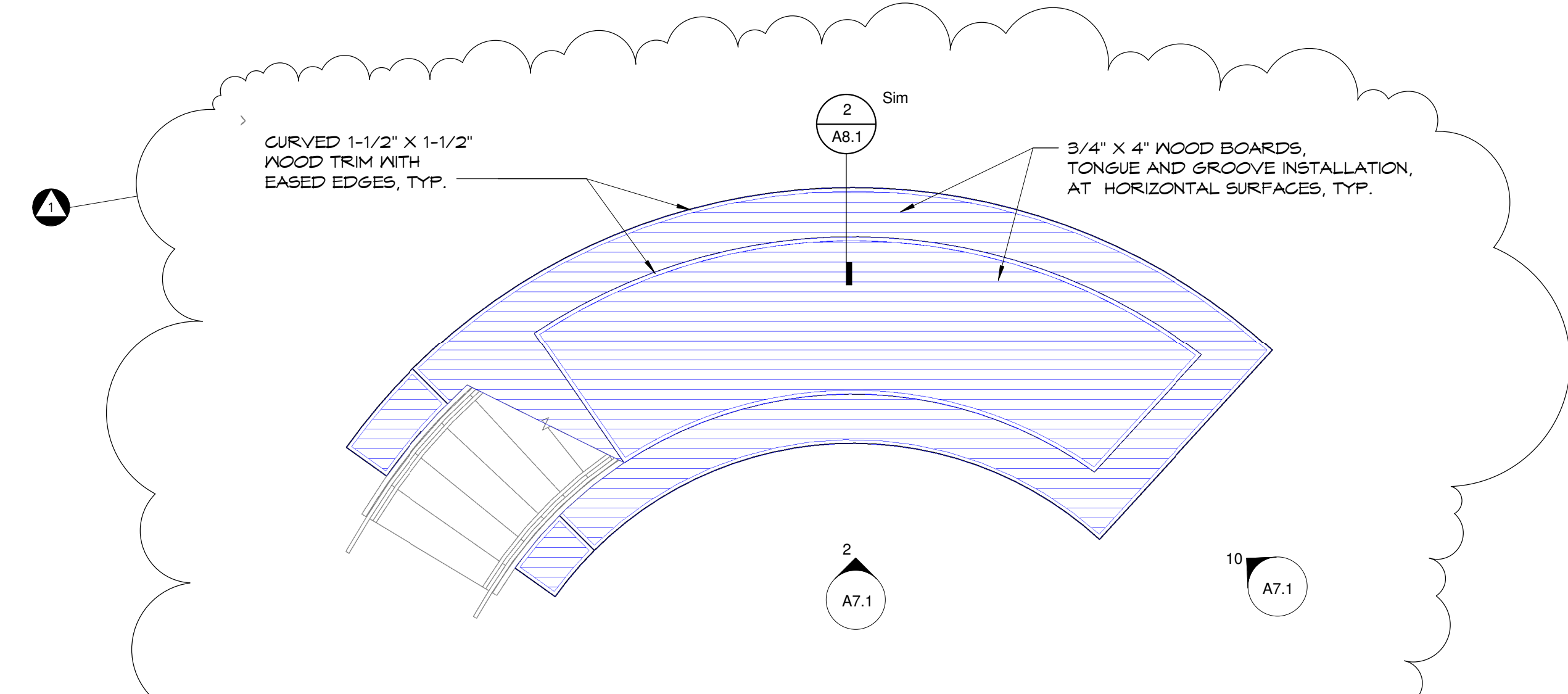
PAISHE PROJECT NO. CL-773
 WTW PROJECT NO. 71-5025
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A1.1A

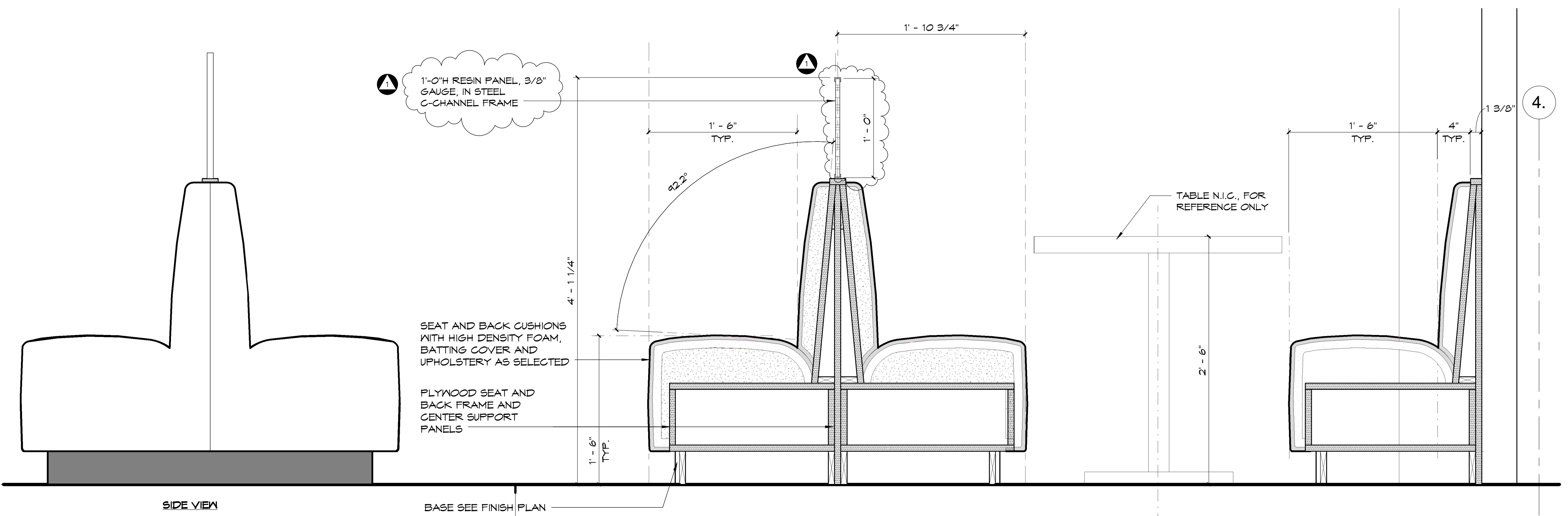
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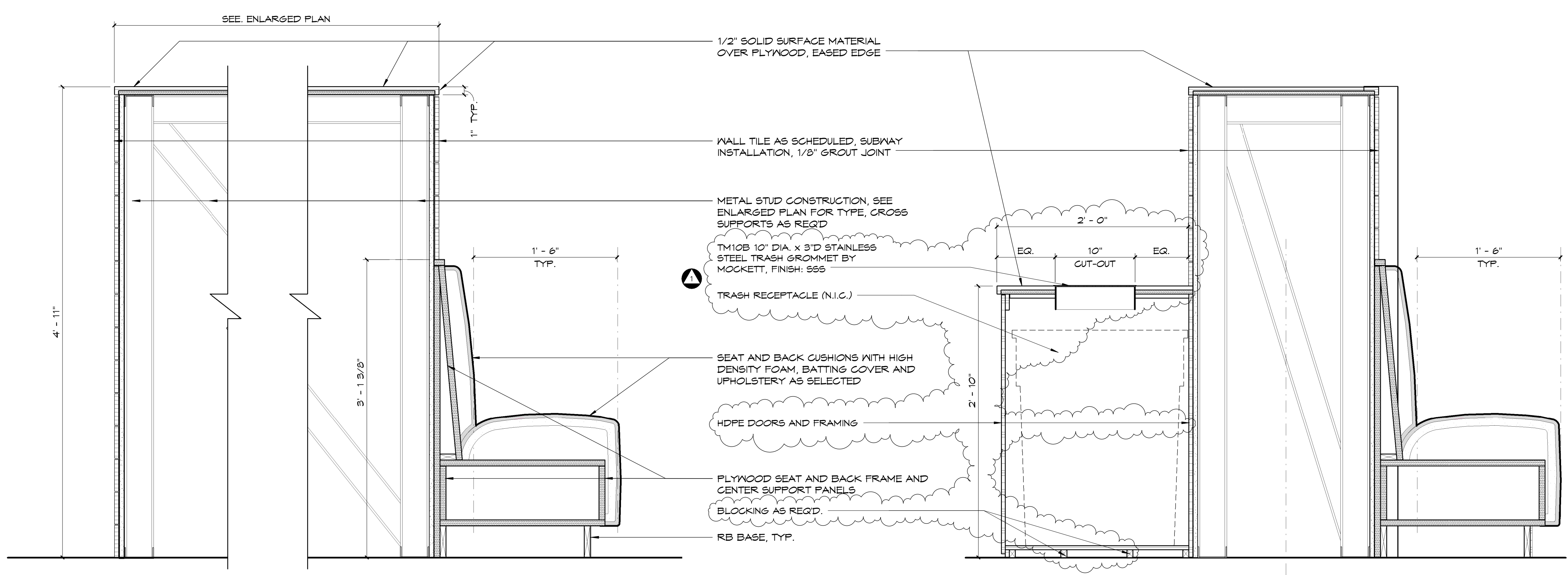
1 ENLARGED PLAN - BOOTHS
 A5.2 1/4" = 1'-0"



5 ENLARGED PLAN - WOOD BENCH
 A5.2 1/4" = 1'-0"



2 BOOTHS - SIDE VIEW AND DETAILS
 A5.2 1 1/2" = 1'-0"



3 BANQUETTE - DETAIL
 A5.2 1 1/2" = 1'-0"

4 SECTION - BANQUETTE-TRASH
 A5.2 1 1/2" = 1'-0"

Rev.	Date	Comment
1	04/01/16	Addendum 02

ISSUED: February 22, 2016

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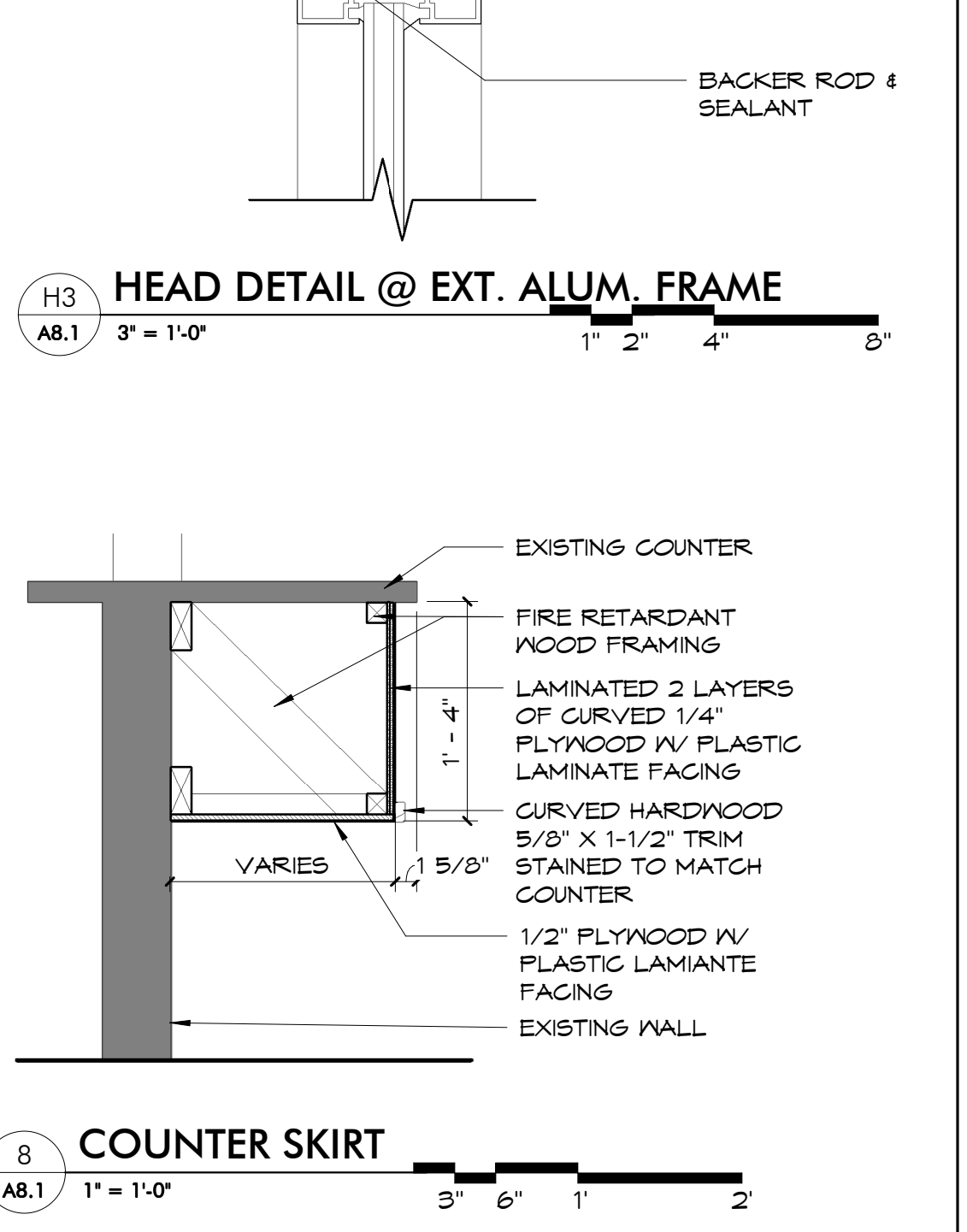
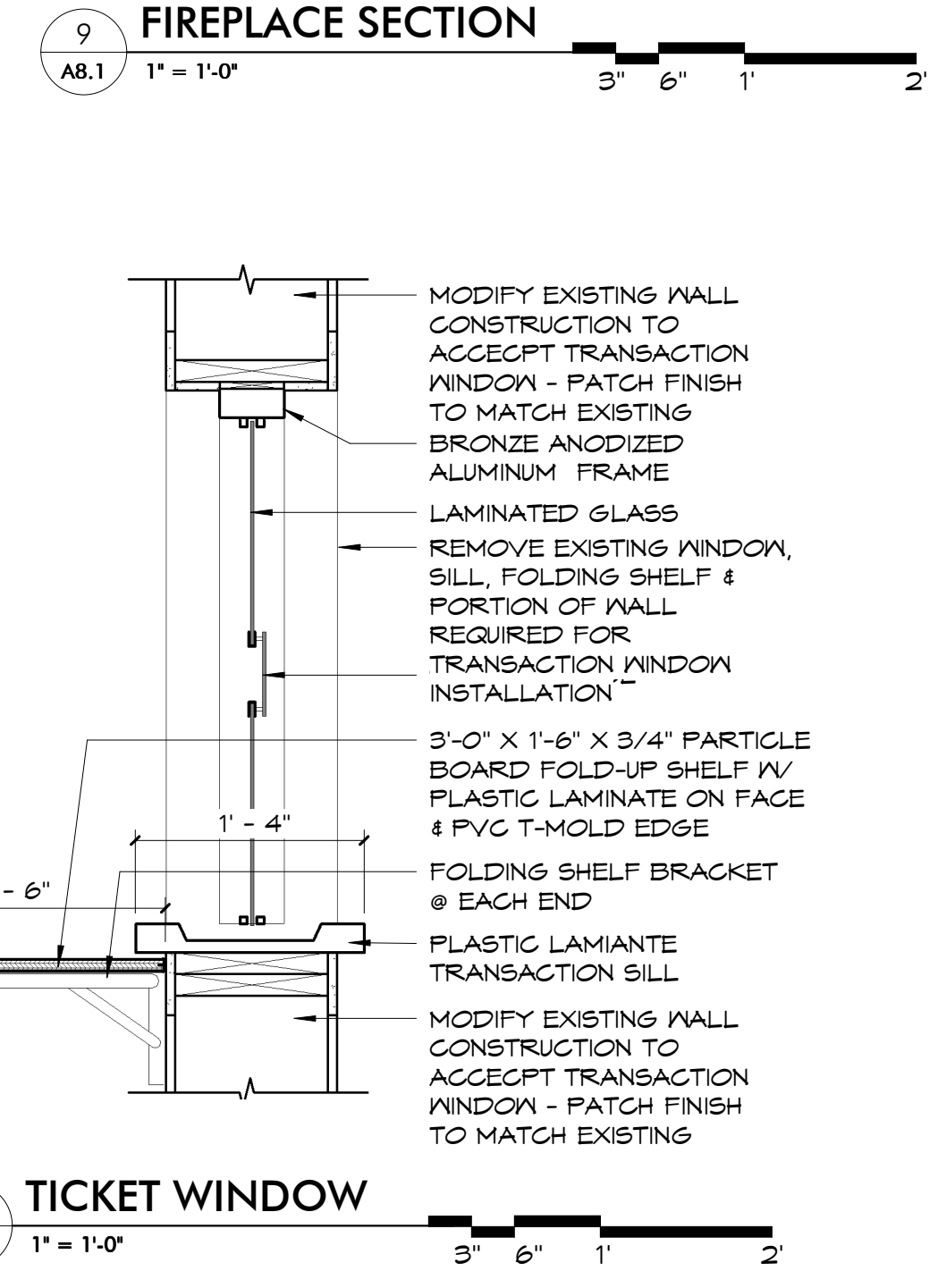
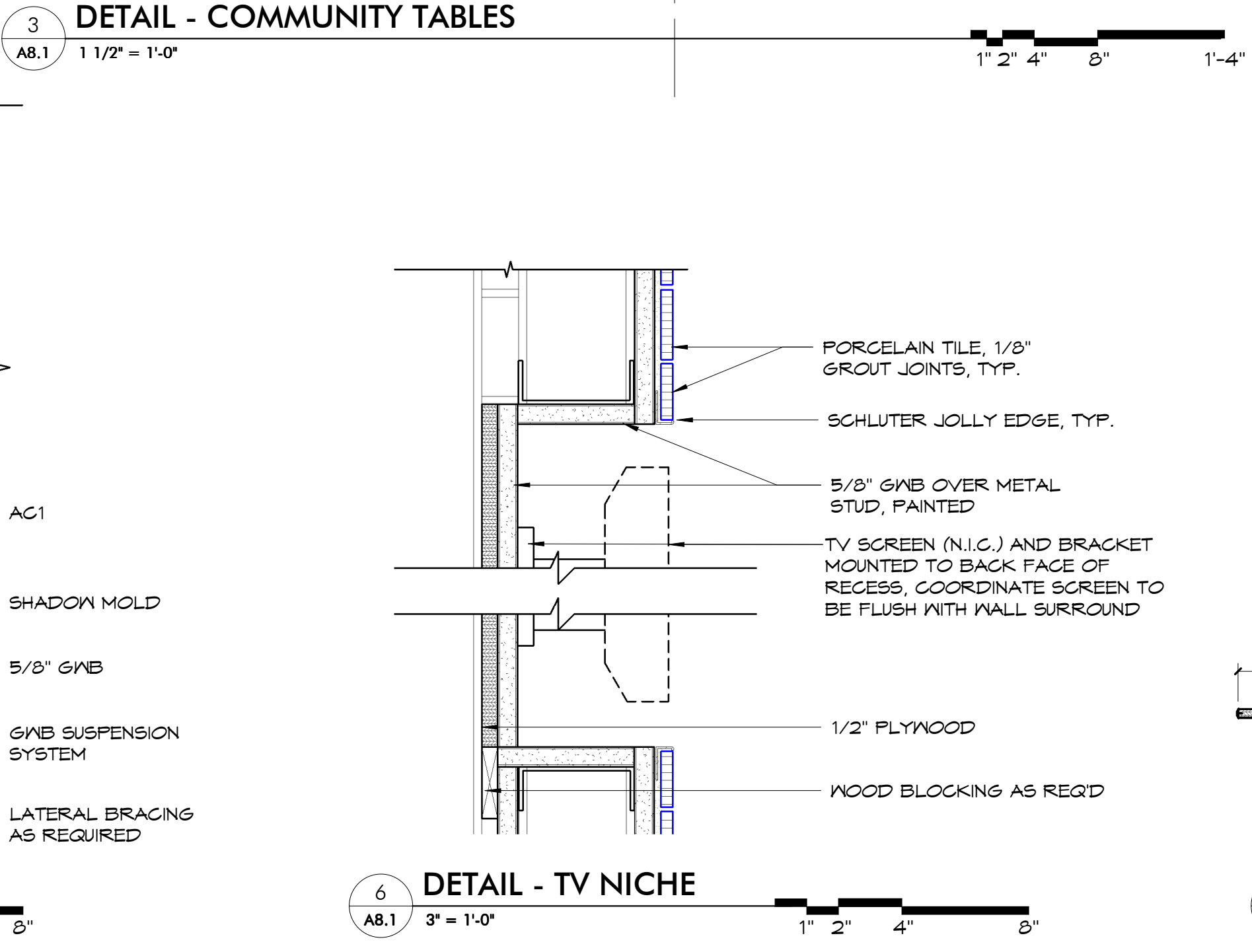
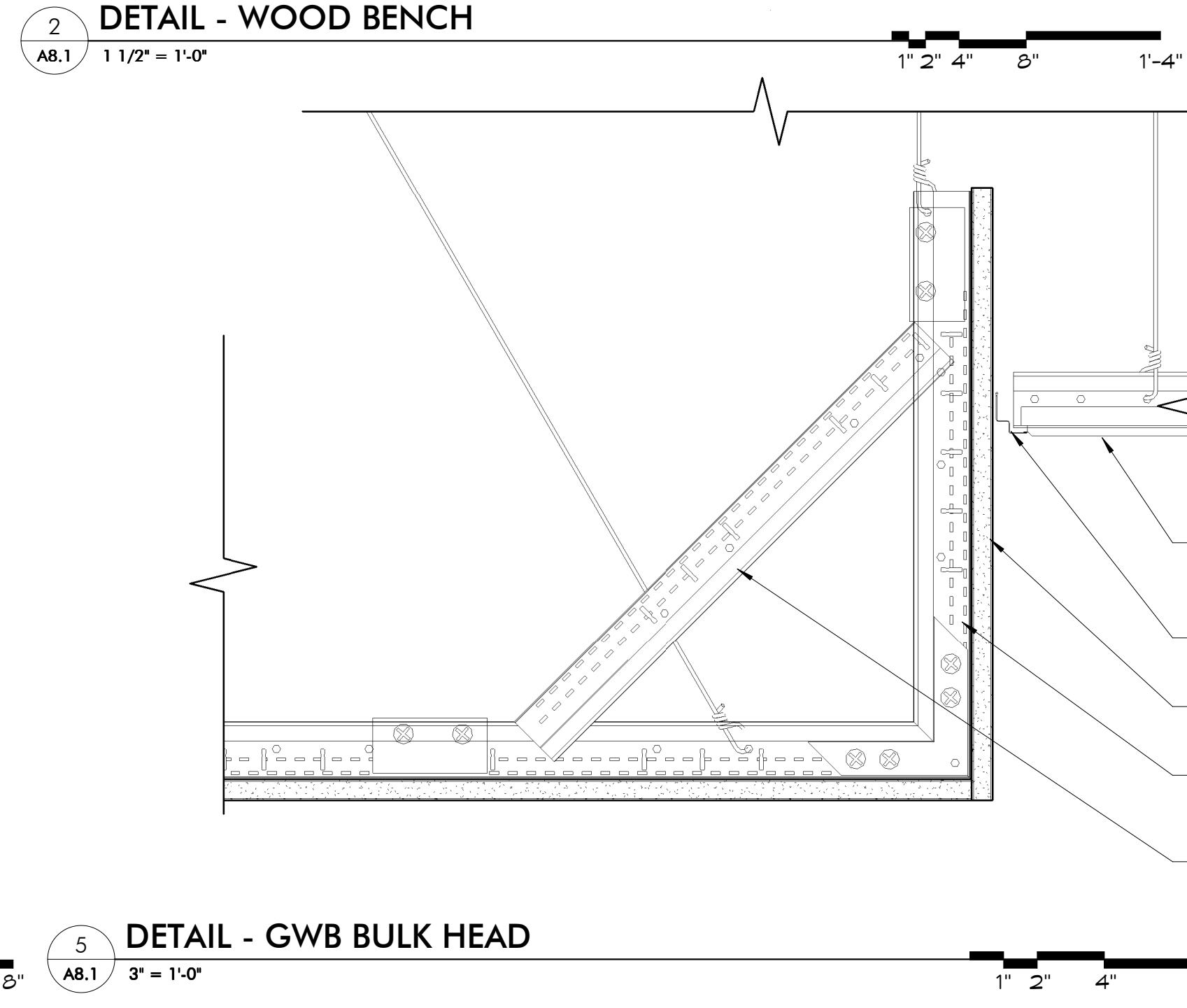
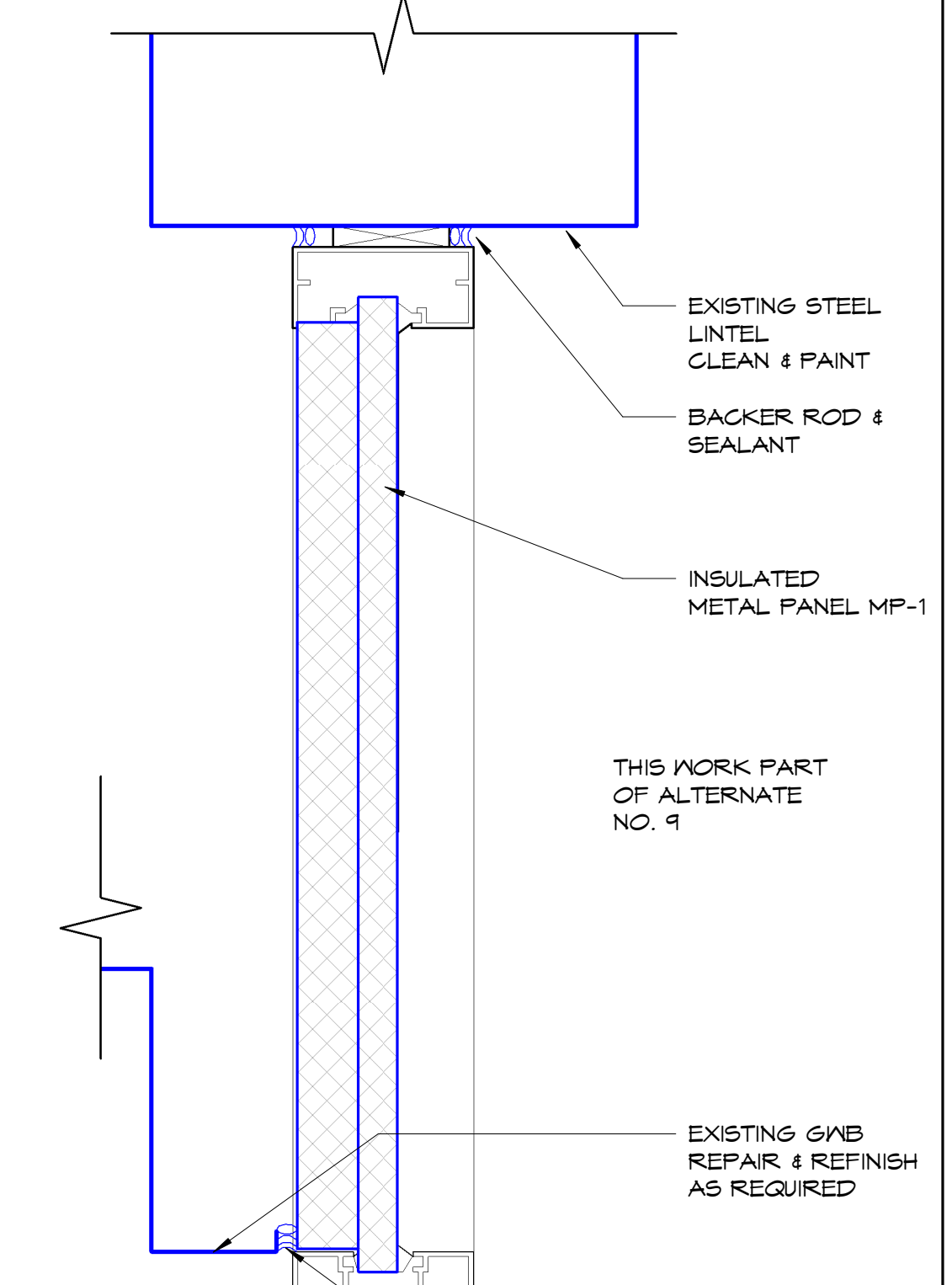
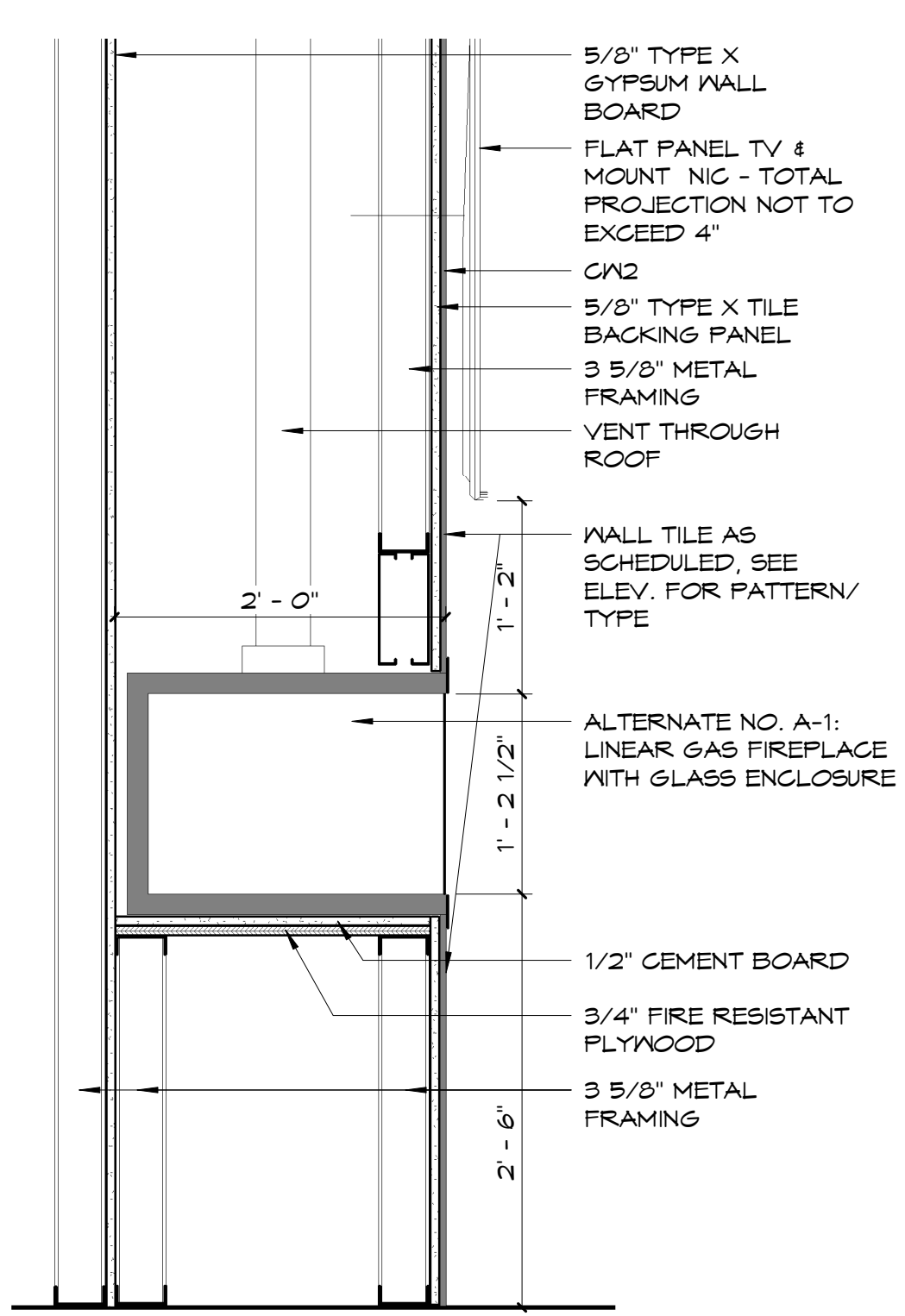
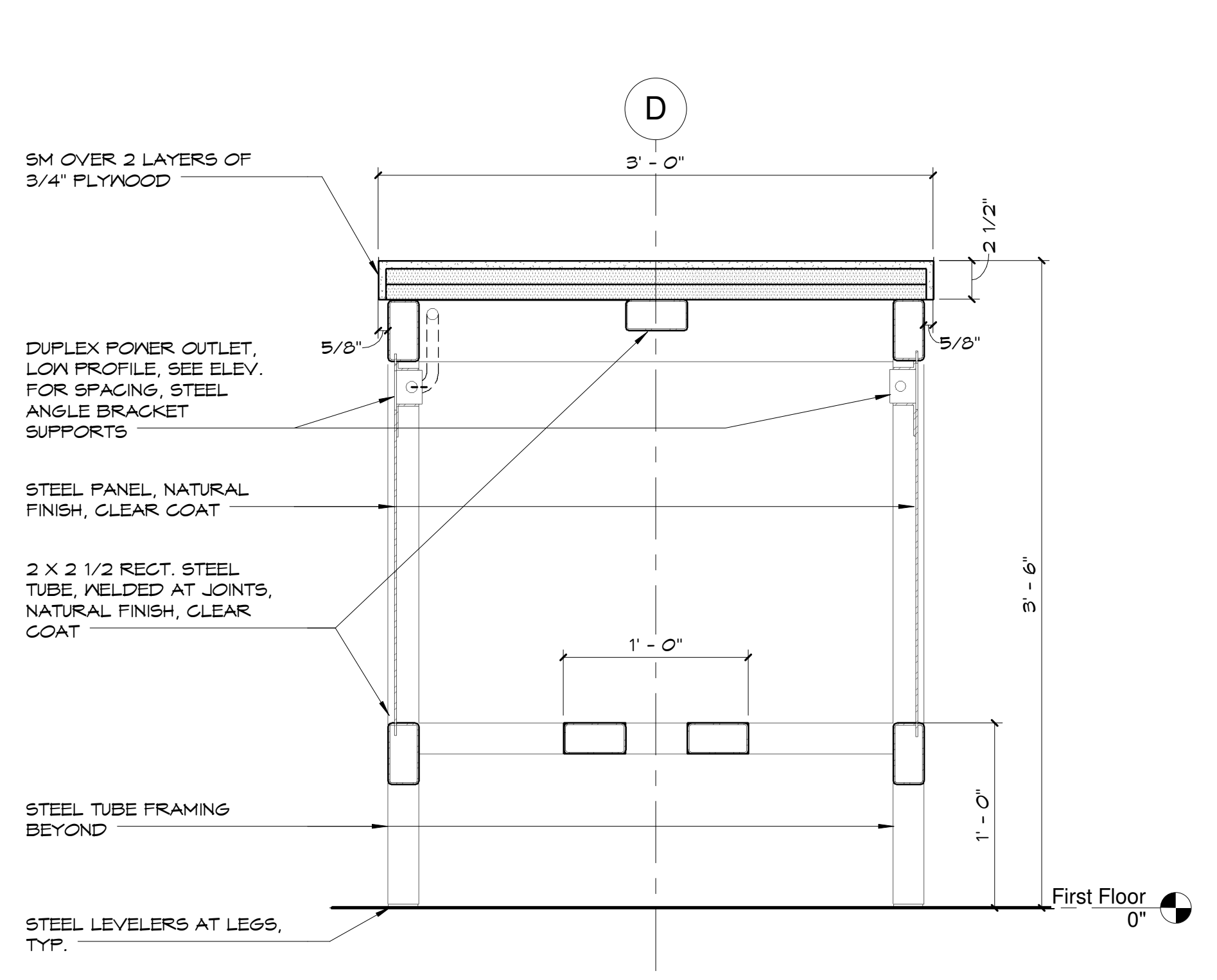
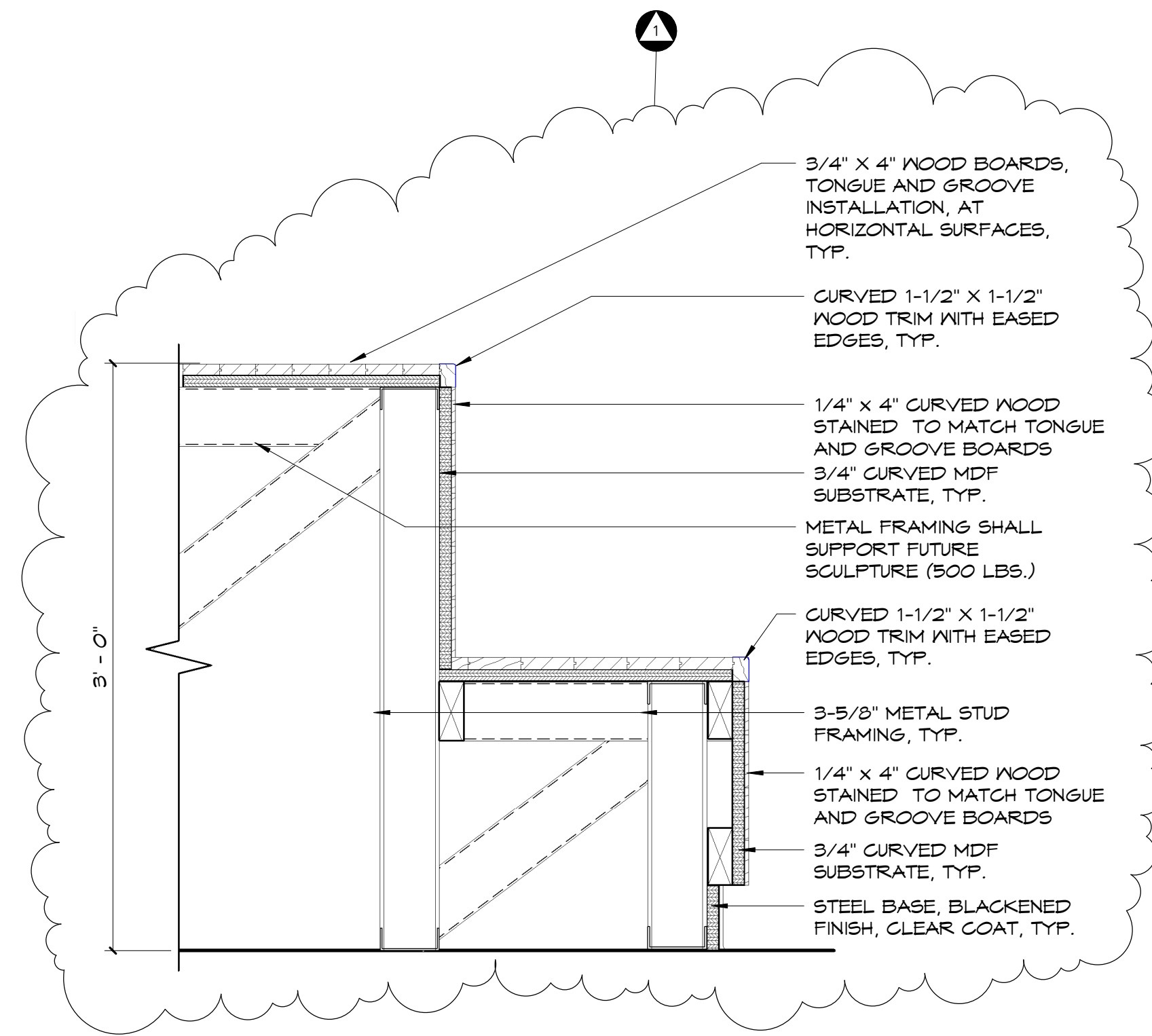
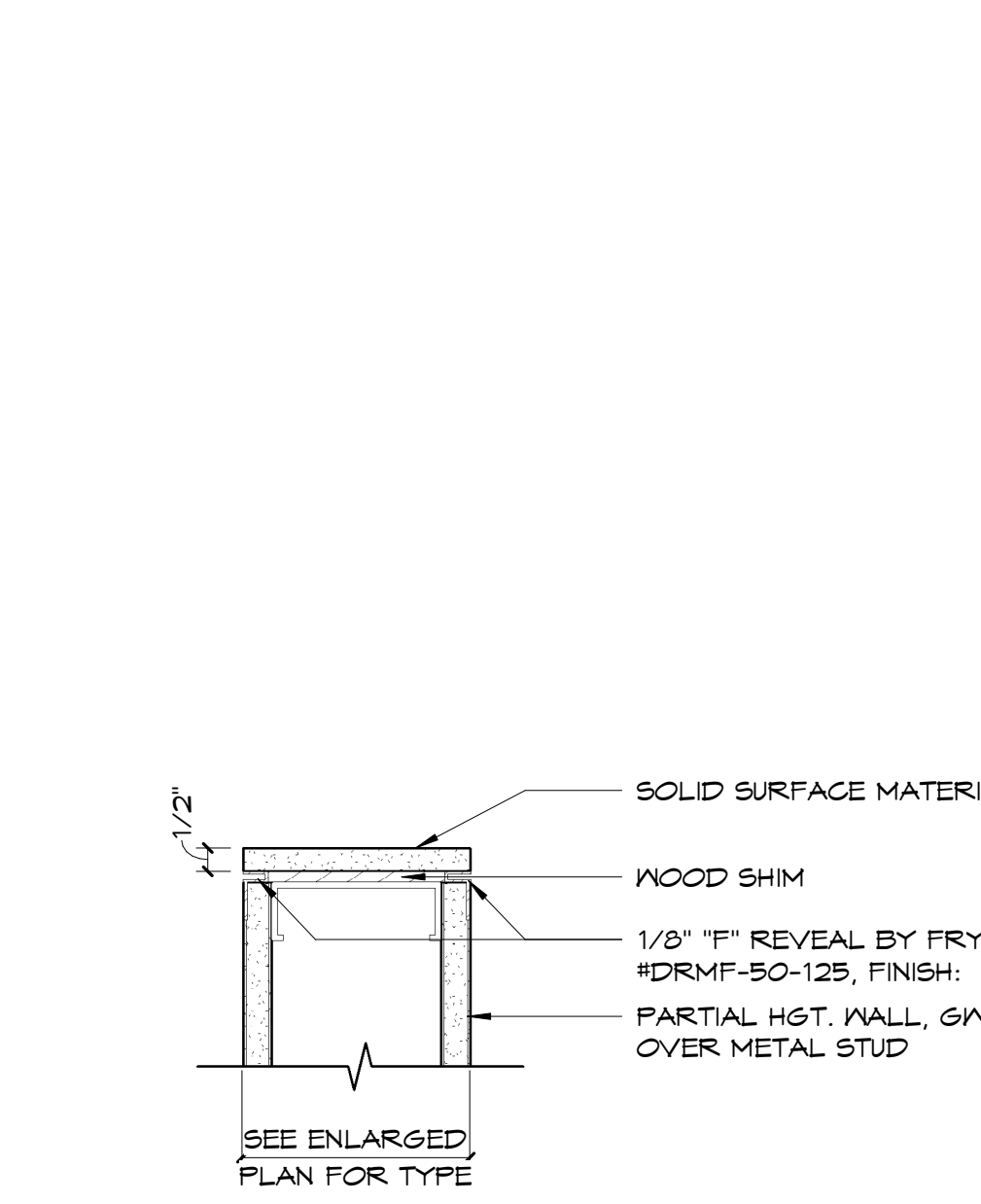
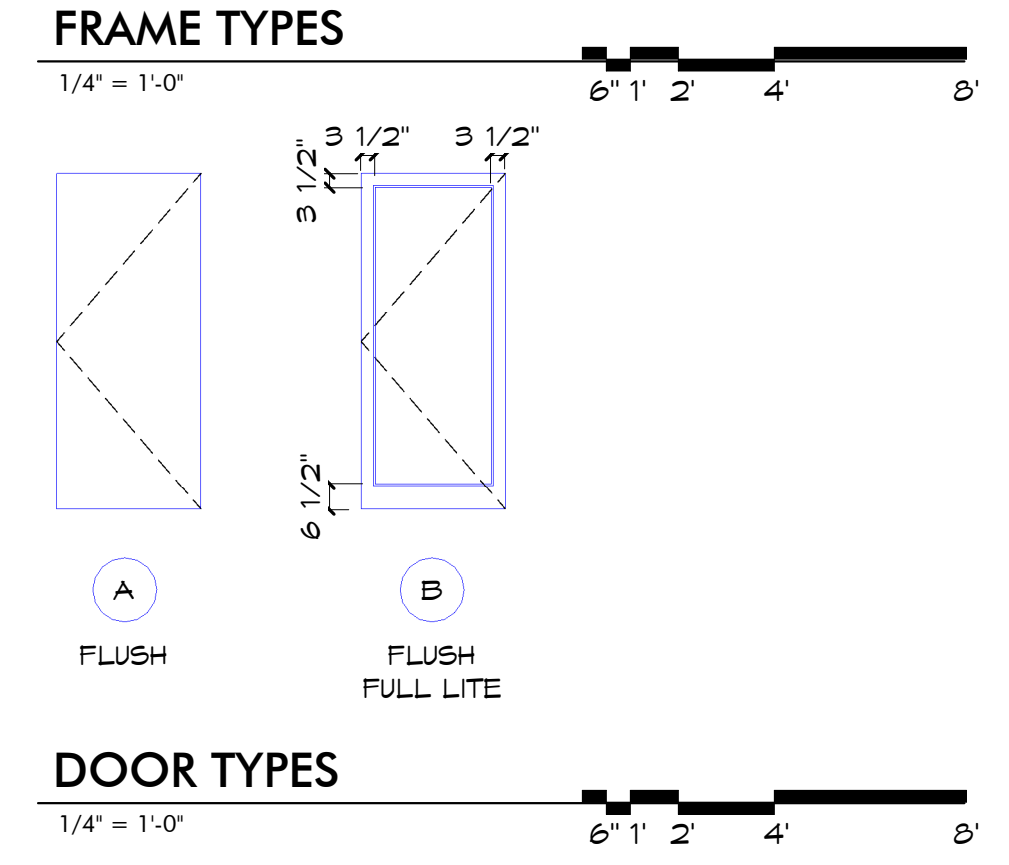
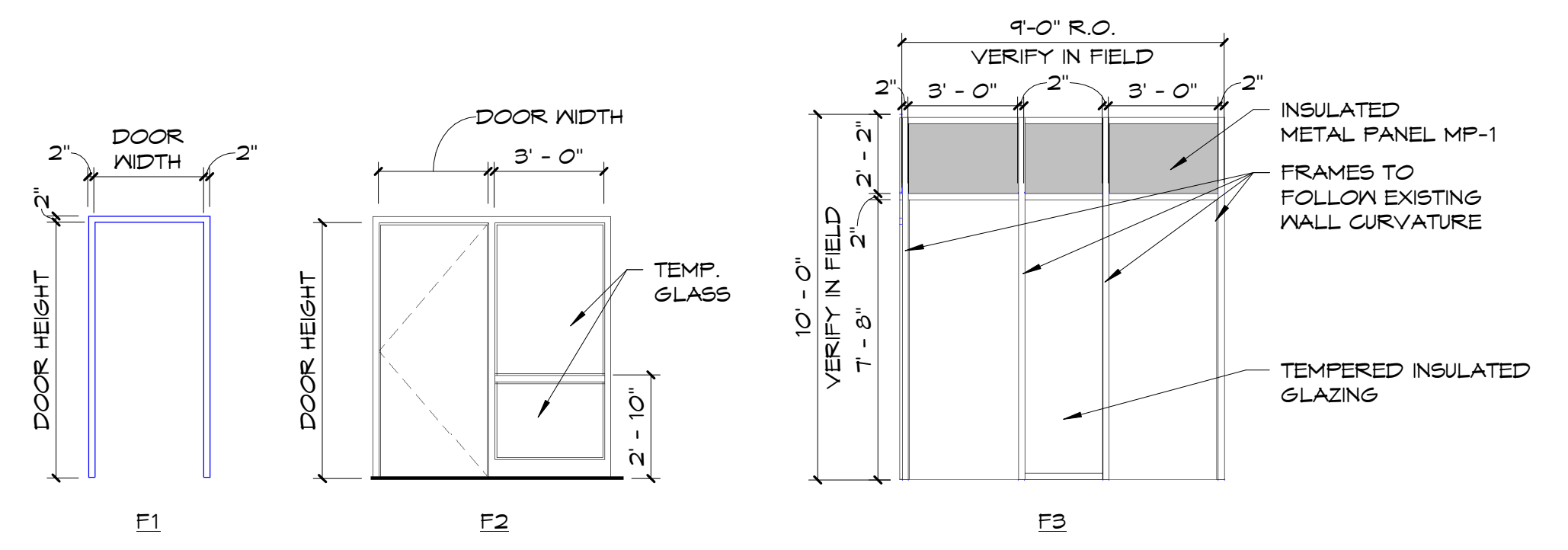
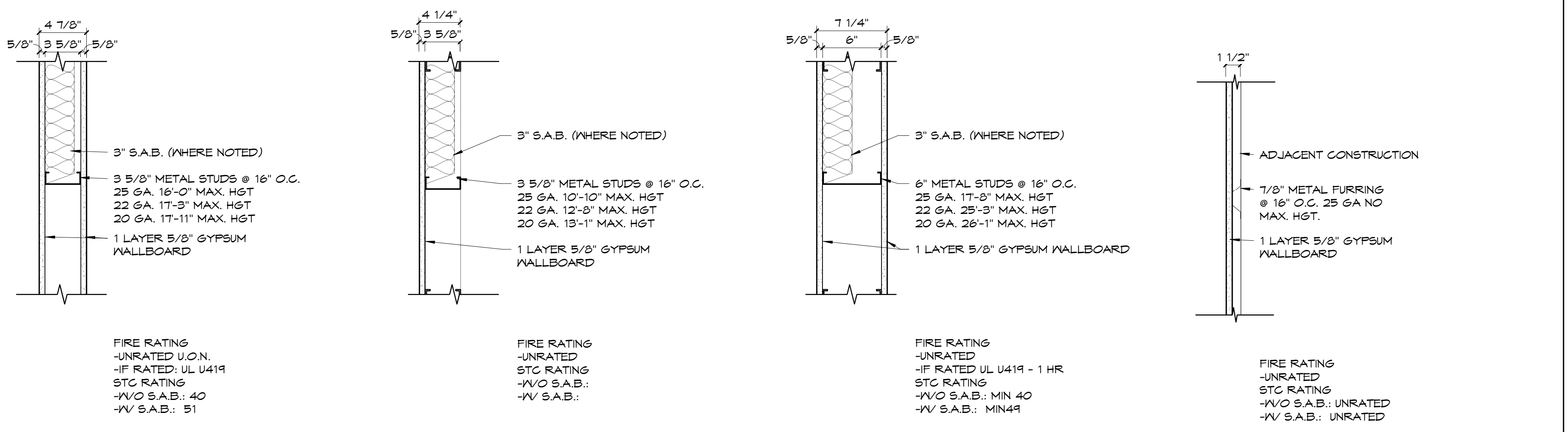


Enlarged Plans and Details

Construction Documents

PASHE PROJECT NO. CL-773
 WTW PROJECT NO. 71-5025
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DOOR SCHEDULE															
DOOR #	DOORS					FRAMES			DETAILS			DOOR LABEL	HARDWARE SET	NOTES	
	ACTIVE	HEIGHT	THICKNESS	INACTIVE	TYPE	MATERIAL	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL				SILL DETAIL
101.1	3'-0"	7'-0"	2"	0"	B	AL	F3	AL	MFR	H3				1	
101.2	3'-0"	7'-0"	2"	0"	B	AL	F3	AL	MFR	H3				1	
131A.1	FR	3'-0"	7'-0"	1 3/4"	2'-0"	VD	F1	HM	PT	H1				2	
159B.1		3'-0"	7'-0"	1 3/4"		VD	F1	HM	PT	H1				4	
242A.1		3'-0"	7'-0"	1 3/4"		VD	F1	HM	PT	H1				5	
275.1		3'-0"	7'-0"	1 3/4"		VD	F2	HM	PT	H1,H2	J1,J2			3	
277.1		3'-0"	7'-0"	1 3/4"		VD	F2	HM	PT	H1,H2	J1,J2			6	
280.1		3'-0"	7'-0"	1 3/4"		VD	F1	HM	PT	H1	J1			7	
281.1		3'-0"	7'-0"	1 3/4"		VD	F1	HM	PT	H1	J1			7	
282.1		3'-0"	7'-0"	1 3/4"		VD	F1	HM	PT	H1	J1			7	
283.1		3'-0"	7'-0"	1 3/4"		VD	F1	HM	PT	H1	J1			7	



Rev.	Date	Comment
1	04/01/16	Addendum 02

ISSUED: February 22, 2016

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Door Schedule, Wall Types & Details

Construction Documents

PASSIVE PROJECT NO. CL 773
 WV PROJECT NO. 71-5025
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A8.1

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Rev.	Date	Comment
1	04/01/16	Addendum 02

ISSUED: February 22, 2016

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Signage Schedule and Details

Construction Documents

PASSIVE PROJECT NO. CL 773
 WVW PROJECT NO. 71-5055
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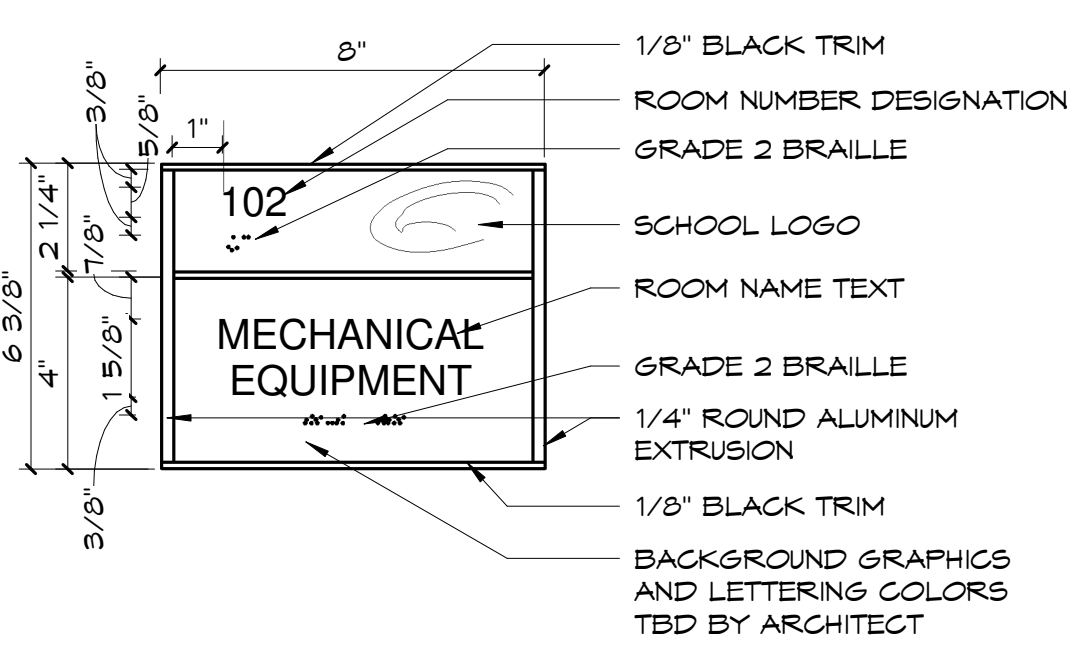
A12.3

SIGNAGE SCHEDULE

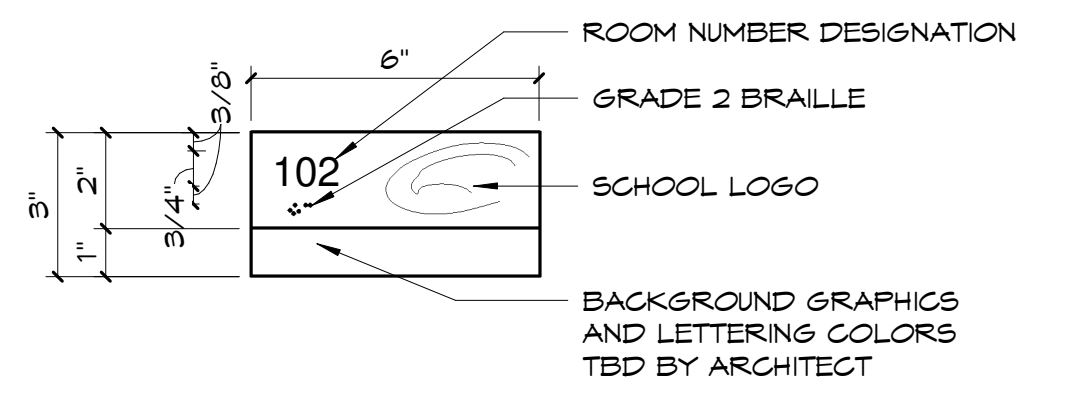
Sign Room #	Sign Room Name	Sign Type	Sign Text	Sign Location	Sign Comments
First Floor					
102	STAFF LOUNGE	A	102/STAFF LOUNGE		
102	PSECU	A	102/CREDIT UNION		
105A	COOLER	B	105A		
105B	COOLER	B	105B		
105C	CLEAN SUPPLIES	B	105C		
106	CORRIDOR	B	106C		
106	JAN.	B	106		
110	PSECU ADMIN. OFFICE	A	110/PSECU ADMIN. OFFICE		
112	ADMIN. OFFICE	A	112/ADMIN. OFFICE		
113	ELEV. MACH. ROOM	A	113/ELEV. MACH. ROOM		
113B	ELEG	A	113B/ELEG		
114	VACANT	B	114		
114A	JAN.	B	114A		
121	RACQUETBALL COURT	A	121/RACQUETBALL		
122	RACQUETBALL COURT	A	122/RACQUETBALL		
123	RACQUETBALL COURT	A	123/RACQUETBALL		
124	STOR.	B	124		
125	MECHANICAL ROOM	A	125 MECHANICAL ROOM		
125A	ELEG	A	125A ELEG		
131	DINING AREA	A	131 DINING		
131	DINING AREA	A	131/DINING		
132	SERVING AREA	A	132/SERVING AREA		
132	SERVING AREA	A	132/SERVING AREA		
132	SERVING AREA	A	132/SERVING AREA		
133A	WALK IN COOLER	B	133A		
133B	WALK IN FREEZER	B	133B		
136	STOR.	B	136		
139	KITCHEN	B	136		
137	OFFICE	A	137/OFFICE		
146	MEETING ROOM	A	146/MEETING ROOM		
152	LECTURE/MEETING ROOM	A	152/MEETING ROOM		
101	ROTUNDA	M	CREDIT UNION/ UNOCCUPIED		
101	ROTUNDA	T	CREDIT UNION/ UNOCCUPIED/ ADMIN OFFICES/ RESTROOMS		
153	CORRIDOR	N	DIRECTORY		
153	CORRIDOR	N	DIRECTORY		
153	CORRIDOR	H	EXIT		
145	VEST.	H	EXIT		
136	STAFF LOUNGE	H	EXIT		
101	ROTUNDA	H	EXIT		
100	VEST.	H	EXIT		
131	DINING AREA	H	EXIT		
131B	VEST.	H	EXIT		
131	DINING AREA	H	EXIT		
131A	VEST.	H	EXIT		
118A	ELEV.	F	IN CASE OF FIRE USE STAIRS		
105	COFFEE SHOP	K	KITCHEN/STAFF ONLY		
132	SERVING AREA	K	KITCHEN/STAFF ONLY		
132	SERVING AREA	K	KITCHEN/STAFF ONLY		
146	MEETING ROOM	P	MAXIMUM OCCUPANCY --		
152	LECTURE/MEETING ROOM	P	MAXIMUM OCCUPANCY --		
106	MEN	D	MEN		
115	MEN	D	MEN		
115	CORRIDOR	M	RACQUETBALL COURTS/ DINING		
153B	RESTROOM	E	RESTROOM		
153	CORRIDOR	S	RESTROOMS		SIDE WALL MOUNTED
115	CORRIDOR	S1	RESTROOMS		SIDE WALL MOUNTED
5-2	STAIR 2	J	STAIR 2/EXIT		
104	WOMEN	C	WOMEN		
117	WOMEN	C	WOMEN		
Second Floor					
201	LOBBY	A	201/LOBBY		
202	CORRIDOR	A	202/CORRIDOR		
202	CORRIDOR	A	202/CORRIDOR		

SIGNAGE SCHEDULE

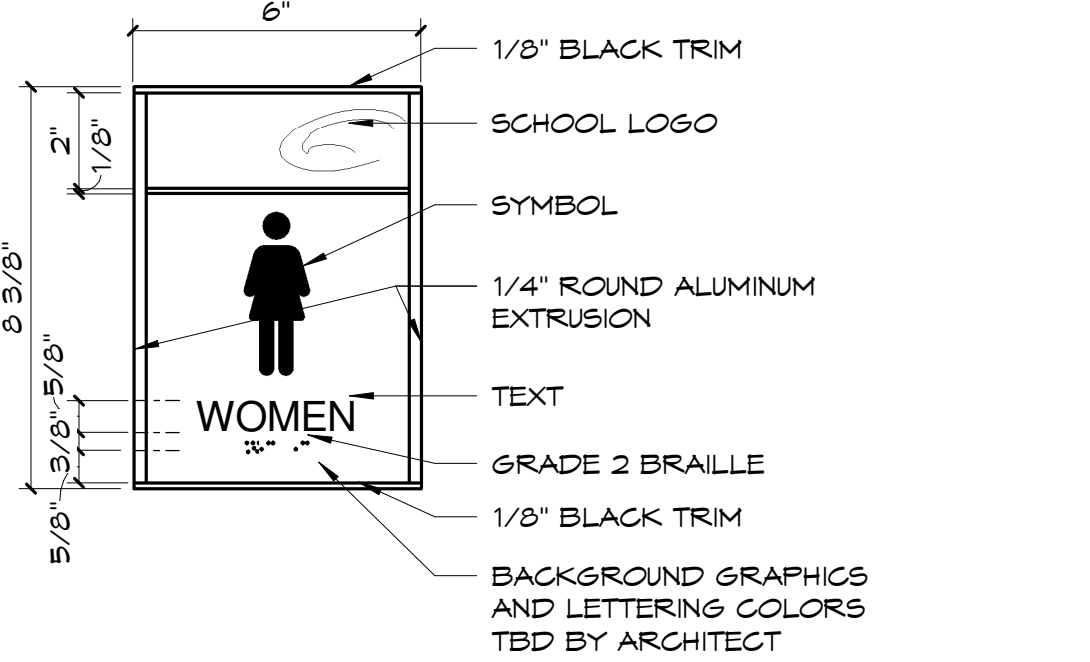
Sign Room #	Sign Room Name	Sign Type	Sign Text	Sign Location	Sign Comments
205	MULTIPURPOSE ROOM	A	205/MULTIPURPOSE ROOM		
205	MULTIPURPOSE ROOM	A	205/MULTIPURPOSE ROOM		
205	MULTIPURPOSE ROOM	A	205/MULTIPURPOSE ROOM		
205	MULTIPURPOSE ROOM	A	205/MULTIPURPOSE ROOM		
205B	STAGE	A	205B/STAGE		
207	WOMEN'S DRESSING ROOM	A	207/WOMEN'S DRESSING ROOM		
265	HALL	A	209 MEN'S DRESSING ROOM		
215	FOOD WARMING	A	215/FOOD WARMING		
215	FOOD WARMING	A	215/FOOD WARMING		
217	OFFICE	A	217/OFFICE		
217A	AV	A	217A/AV ROOM		
219	STOR.	B	219		
221	HALL	A	221/HALL		
234	JAN.	A	234/JANITOR		
236A	DATA	A	236A/DATA		
240	HALL	A	240/HALL		
242	LOUNGE	A	242/LOUNGE		
242	LOUNGE	A	242/LOUNGE		
242A	STOR.	B	242A		
243	LOBBY	A	243/LOBBY		
244A	CORRIDOR	A	244 CORRIDOR		
244A	CORRIDOR	A	244A/CORRIDOR		
245	EVENTS COORD. OFFICE	A	245/EVENTS COORD. OFFICE		
245A	STOR.	B	245A		
246	MEETING ROOM	A	246/MEETING ROOM		
246	MEETING ROOM	A	246/MEETING ROOM		
246A	STOR.	B	246A		
246B	STOR.	B	246B		
247	SUPPORT STAFF OFFICE	A	247/SUPPORT STAFF OFFICE		
248A	STOR.	B	248A		
249	UAB	A	249/UAB		
249	UAB	A	249/UAB		
249	UAB	A	249/UAB		
249	UAB	A	249/UAB		
250	MEETING ROOM	A	250/MEETING ROOM		
250A	STOR.	B	250A		
251	GRAD. ASSISTANT OFFICE	A	251/GRAD. ASSISTANT OFFICE		
251	GRAD. ASSISTANT OFFICE	A	251/GRAD. ASSISTANT OFFICE		
251	GRAD. ASSISTANT OFFICE	A	251/GRAD. ASSISTANT OFFICE		
252	MEETING ROOM	A	252/MEETING ROOM		
252A	OUTDOOR REC. STOR.	B	252A		
253	INFO DESK	A	253/INFO DESK		
254	BALCONY	A	254/BALCONY		
254	BALCONY	A	254/BALCONY		
256	ENTRY ALCOVE	A	256/ENTRY ALCOVE		
259	OUTDOOR REC. STOR.	B	259		
260	INTERHALL COUNCIL	A	260/INTERHALL COUNCIL		
262	BSU	A	262/BSU		
263	OFFICE	A	263/OFFICE		
264	STUDENT SENATE	A	264/STUDENT SENATE		
265	OFFICE	A	265/OFFICE		
267	OFFICE	A	267/OFFICE		
268	STUDENT SENATE OFFICE	A	268/STUDENT SENATE OFFICE		
269	OFFICE	A	269/OFFICE		
270	NEWSPAPER OFFICE	A	270/NEWSPAPER OFFICE		
271	OFFICE	A	271/OFFICE		
272	PHOTO LAB	A	272 PHOTO LAB		
274	DARK ROOM	A	274/DARK ROOM		
275	LOUNGE	A	275/LOUNGE		
276	STOR.	B	276		
277	OFFICE	A	277/OFFICE		
278	OPEN OFFICE	A	278/OPEN OFFICE		
278A	STOR.	A	278A/STORAGE		
278B	OUTDOOR REC. STOR.	B	278B		
279	STOR.	B	279		
280	STOR.	B	280		
281	STOR.	B	281		
282	STOR.	B	282		
283	STOR.	B	283		
202	CORRIDOR	N	DIRECTORY		
256	ENTRY ALCOVE	H	EXIT		
255	VEST.	H	EXIT		
200	COMMONS	H	EXIT		
200A	VEST.	H	EXIT		
246	MEETING ROOM	H	EXIT		
246	MEETING ROOM	H	EXIT		
250	MEETING ROOM	H	EXIT		
252	MEETING ROOM	H	EXIT		
213	VEST.	H	EXIT		
202	CORRIDOR	H	EXIT		
256	ENTRY ALCOVE	H	EXIT		
113A	ELEV.	F	IN CASE OF FIRE USE STAIRS		
200	COMMONS	T	INFORMATION DESK/ STUDENT LOUNGE/ MEETING ROOMS/ STUDENT ORG./ RESTROOMS		
205	MULTIPURPOSE ROOM	P	MAXIMUM OCCUPANCY --		
252	MEETING ROOM	P	MAXIMUM OCCUPANCY --		
250	MEETING ROOM	P	MAXIMUM OCCUPANCY --		
246	MEETING ROOM	P	MAXIMUM OCCUPANCY --		
246	MEETING ROOM	P	MAXIMUM OCCUPANCY --		
257	MEN	D	MEN		
201	COMMONS	L	MULTIPURPOSE ROOM		
211	TLT	E1	RESTROOM		
265	HALL	T	RESTROOM/ DRESSING ROOM		
202	CORRIDOR	S1	RESTROOMS		
5-2	STAIR 2	J	STAIR 2/EXIT		
5-4	STAIR 4	J	STAIR 4/EXIT		
200	COMMONS	T	STUDENT LOUNGE/ STUDENT ORG.		
242	LOUNGE	M	UAB/ STUDENT SENATE/ ADMIN OFFICES		
255	WOMEN	C	WOMEN		



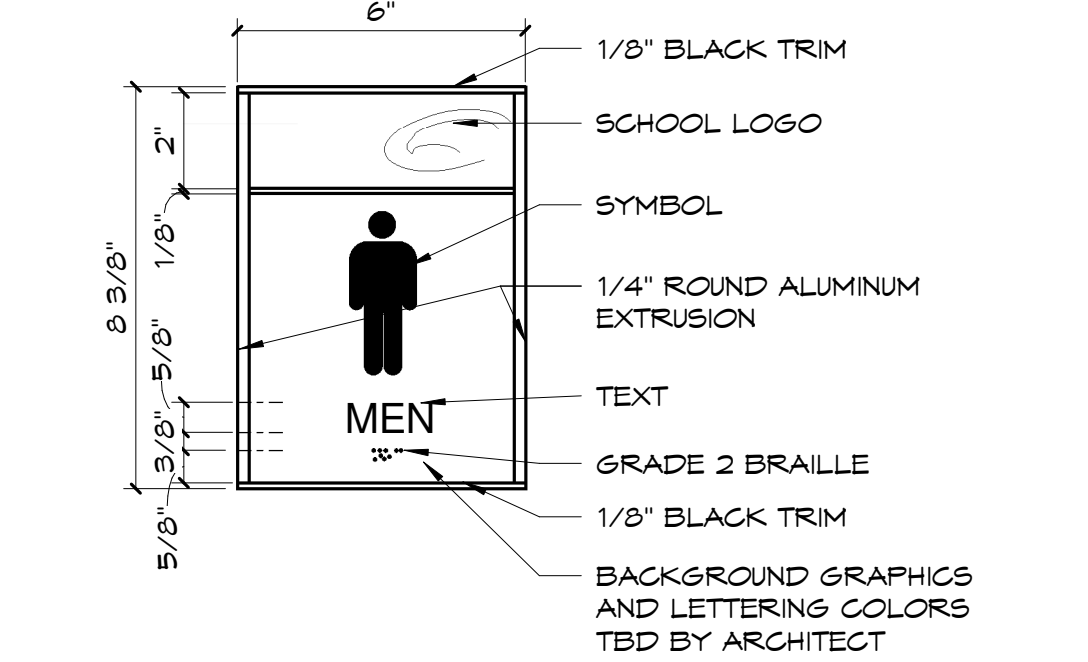
SIGN A - ROOM ID
3" = 1'-0"



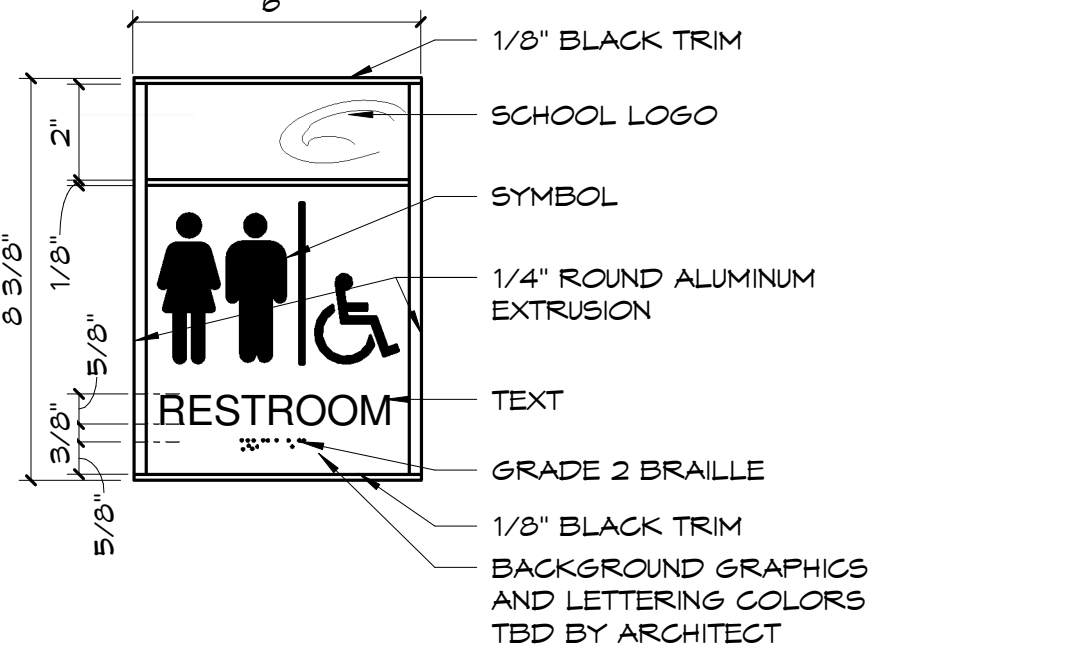
SIGN B - NUMBER PLAQUE
3" = 1'-0"



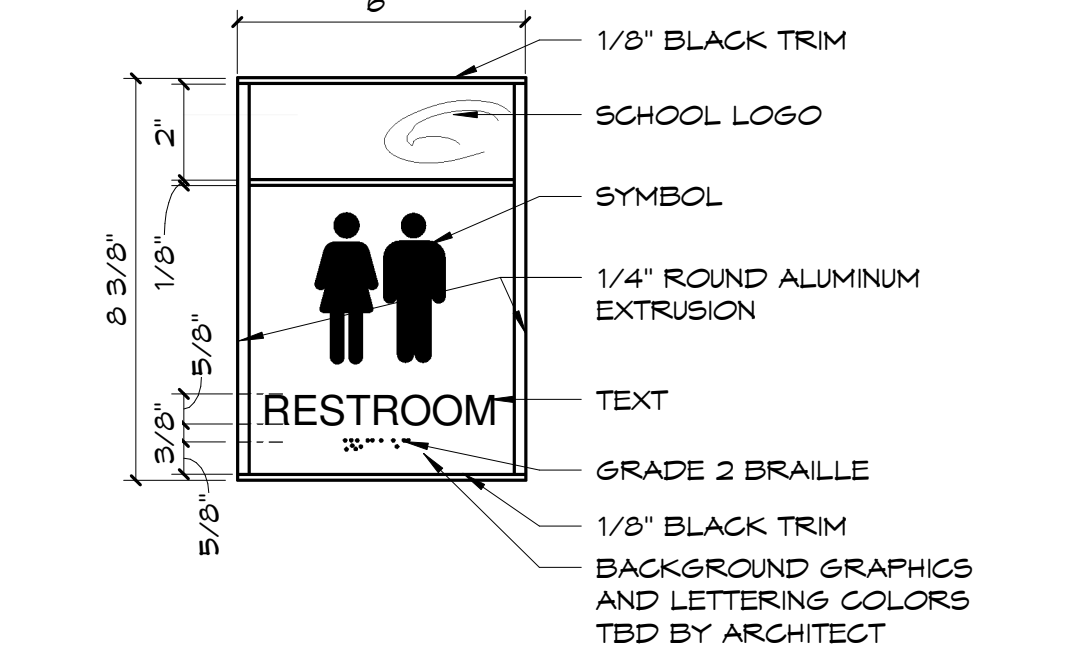
SIGN C - RESTROOM (W)
3" = 1'-0"



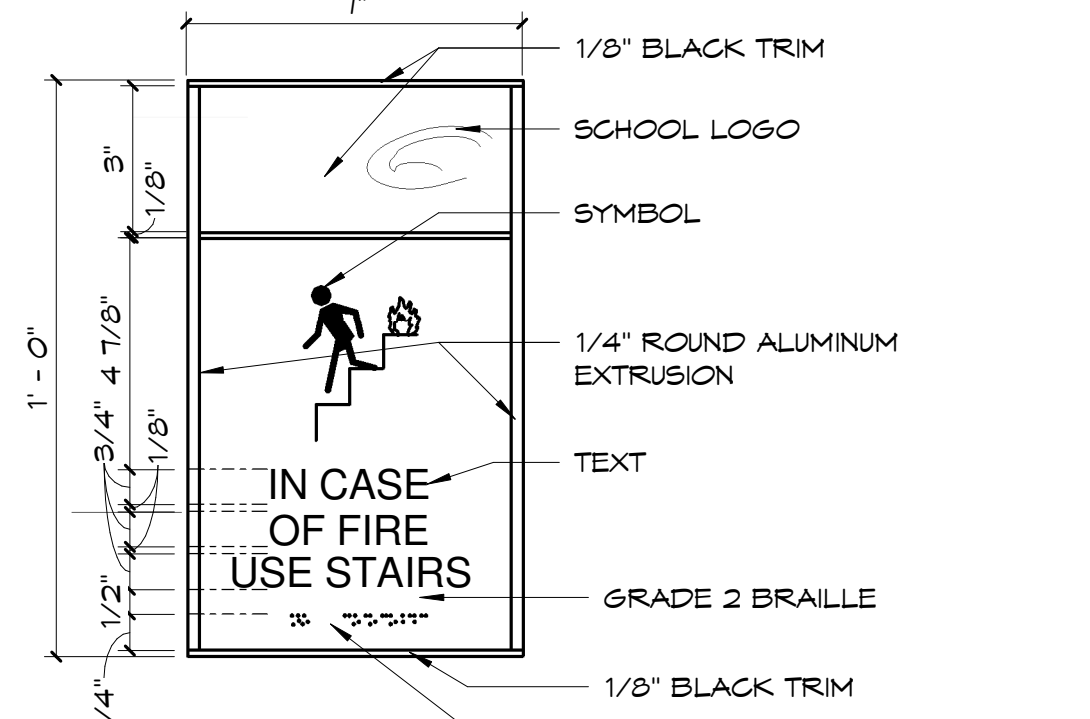
SIGN D - RESTROOM (M)
3" = 1'-0"



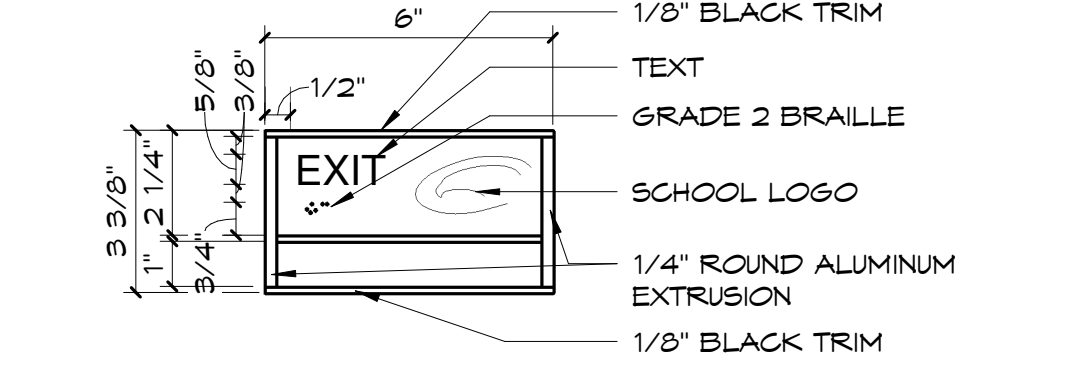
SIGN E - RESTROOM (U)
3" = 1'-0"



SIGN E1 - RESTROOM (U)
3" = 1'-0"

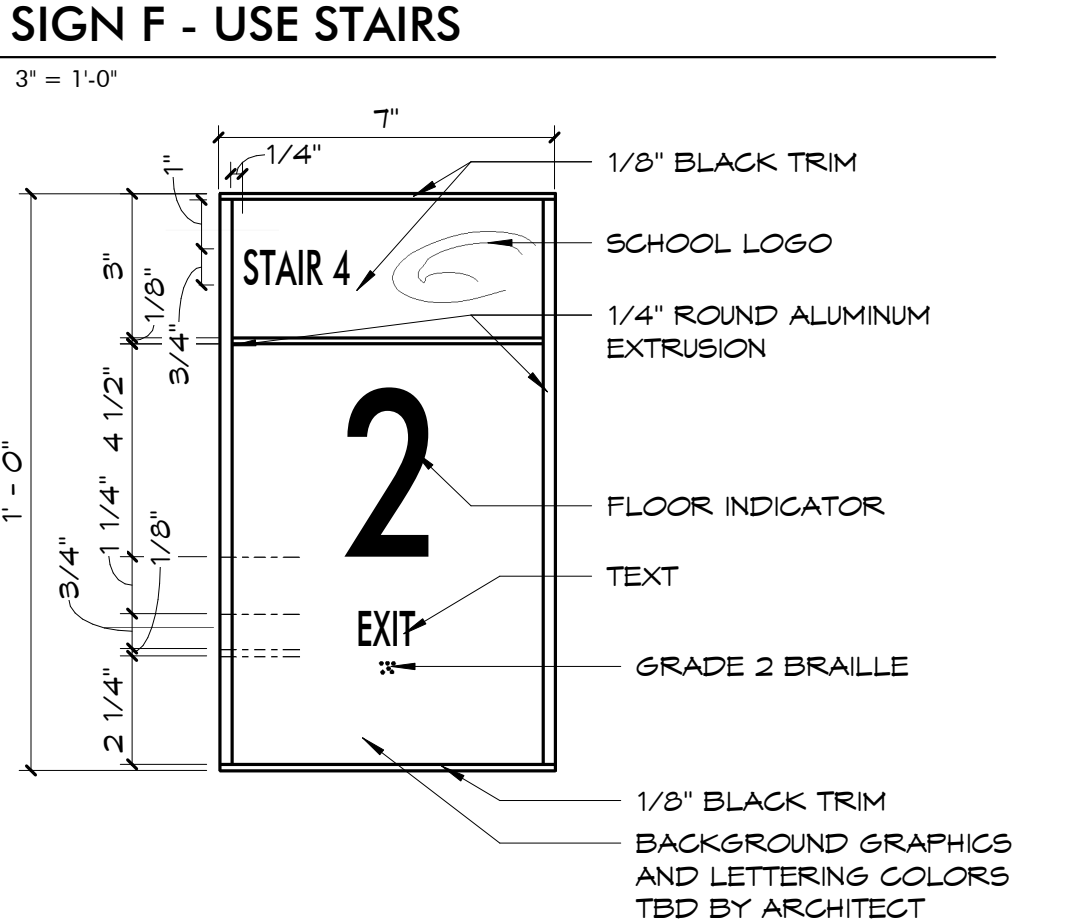


SIGN F - USE STAIRS
3" = 1'-0"

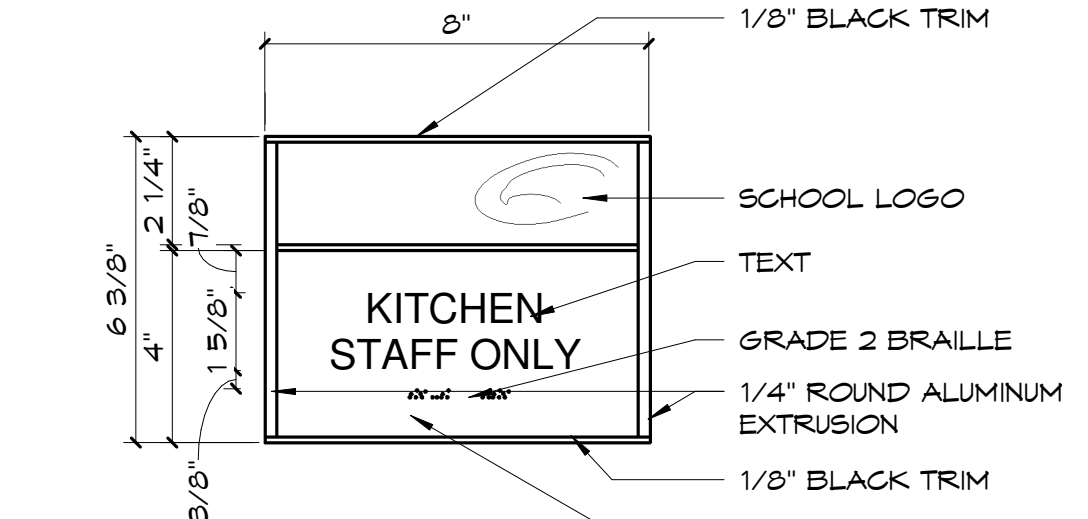


SIGN H - EXIT PLAQUE
3" = 1'-0"

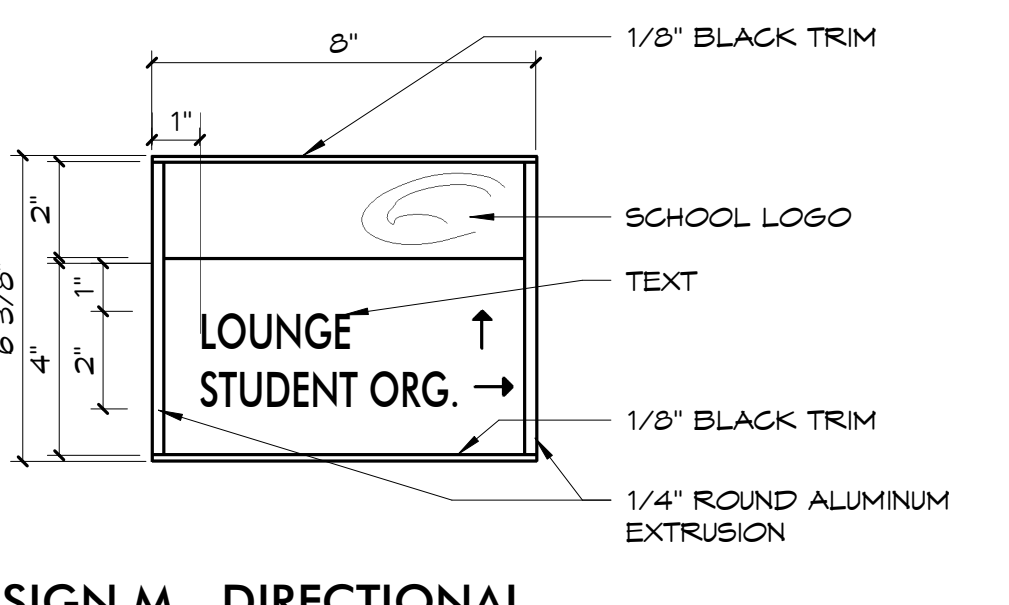
NOTE: INSTALL SIGN TYPE (F) AT EACH ELEVATOR LOCATION ABOVE CALL BUTTON



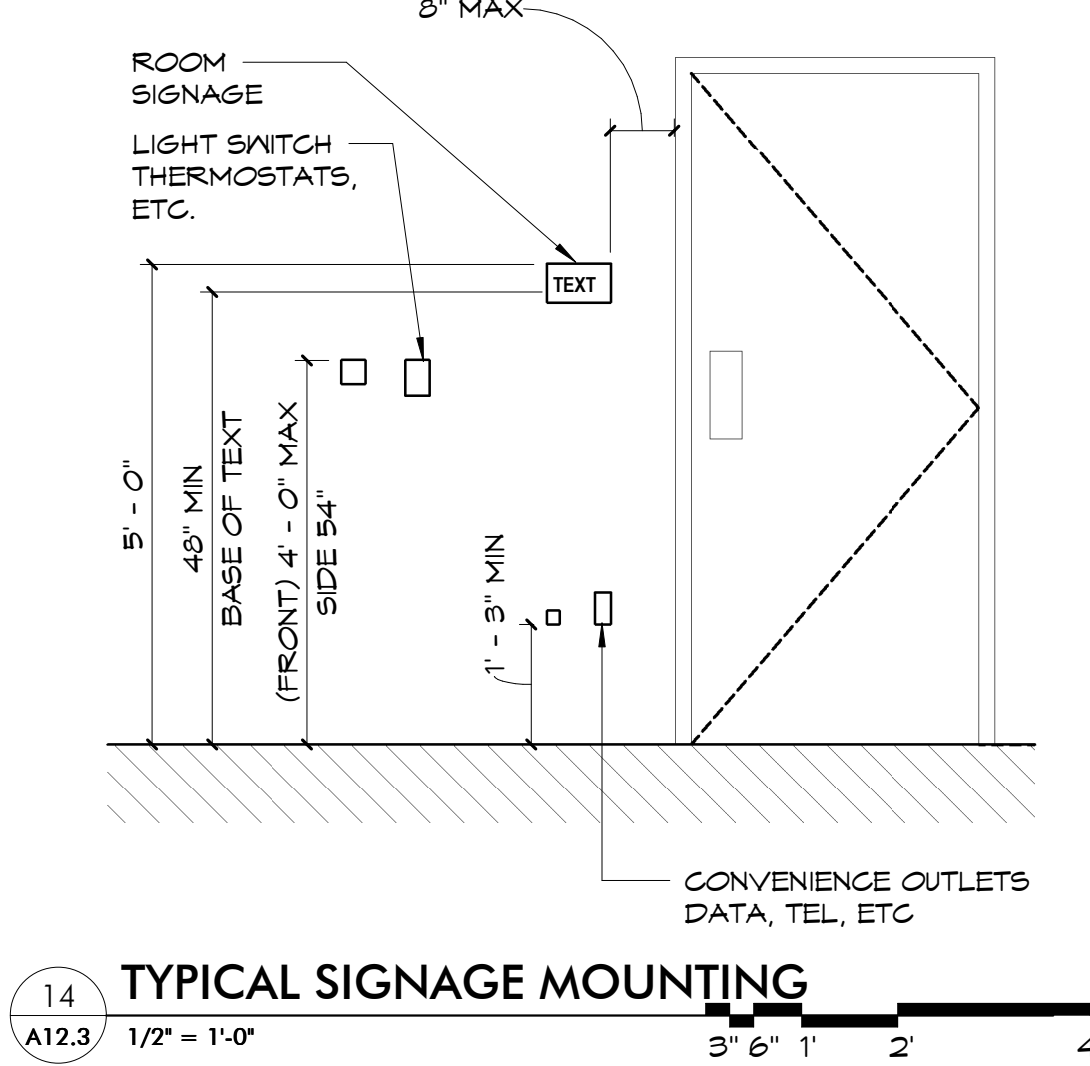
SIGN J - STAIR/EXIT
3" = 1'-0"



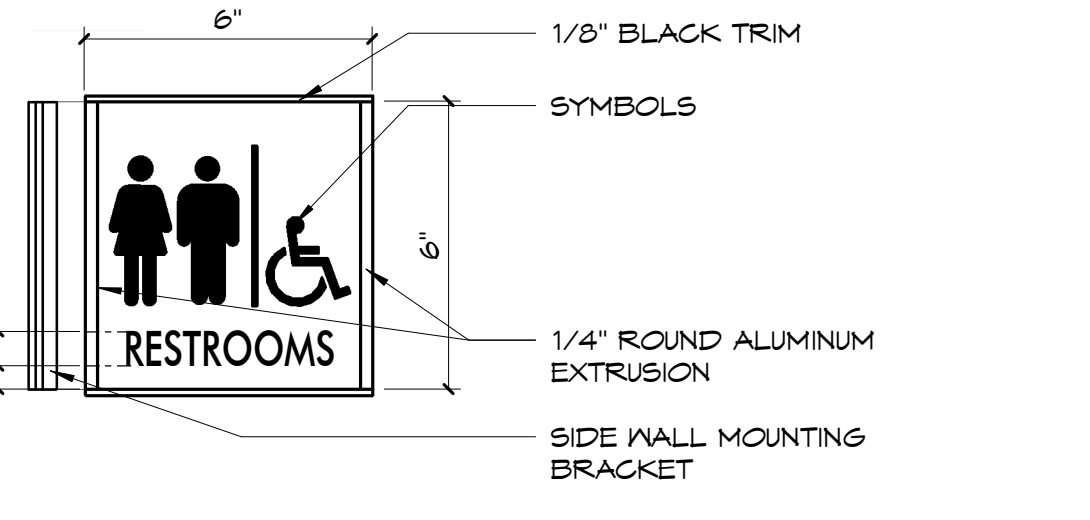
SIGN K - STAFF ONLY
3" = 1'-0"



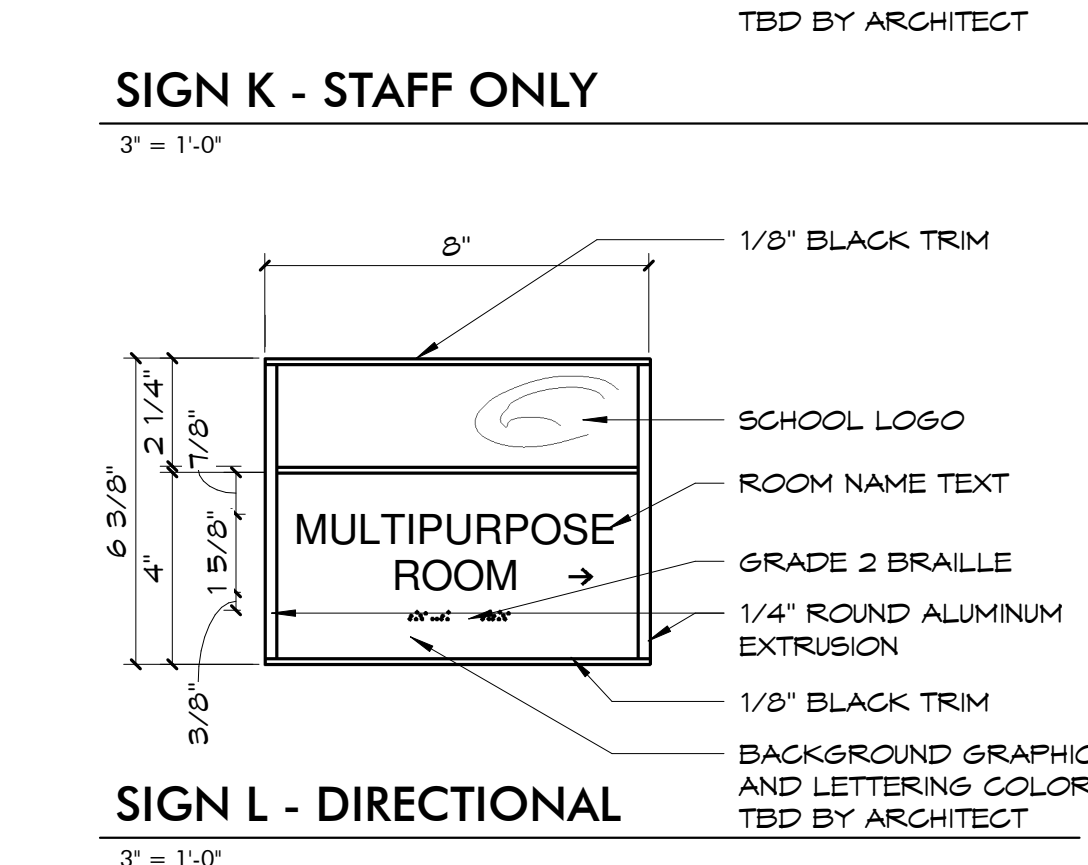
SIGN M - DIRECTIONAL
3" = 1'-0"



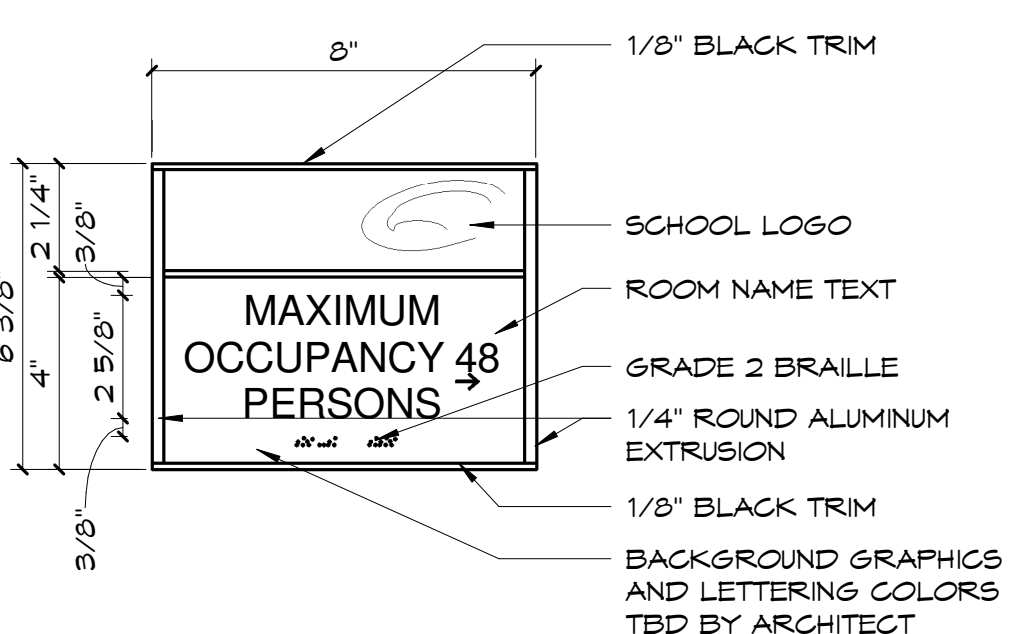
SIGN N - DIRECTORY
3" = 1'-0"



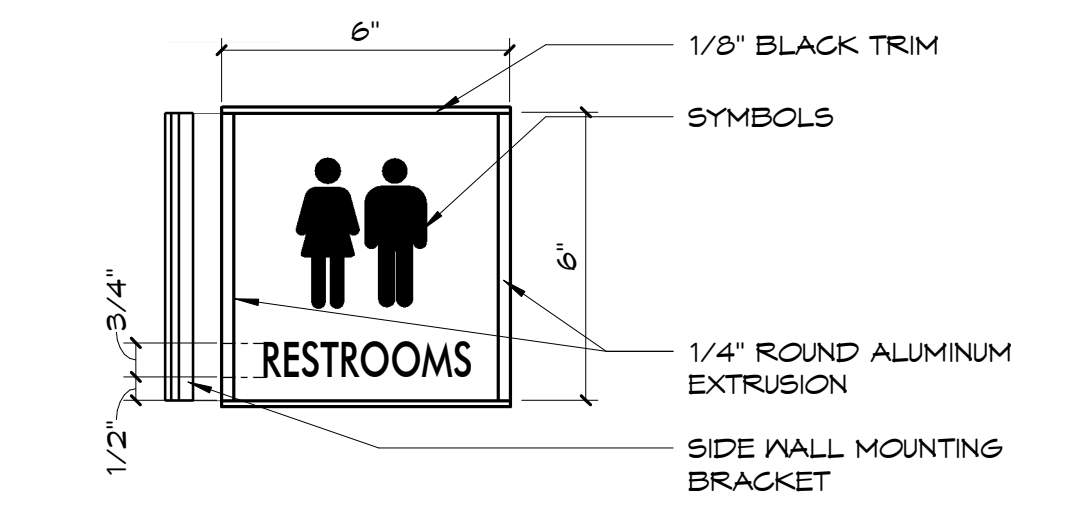
SIGN S - SIDE MOUNTED DIRECTIONAL
3" = 1'-0"



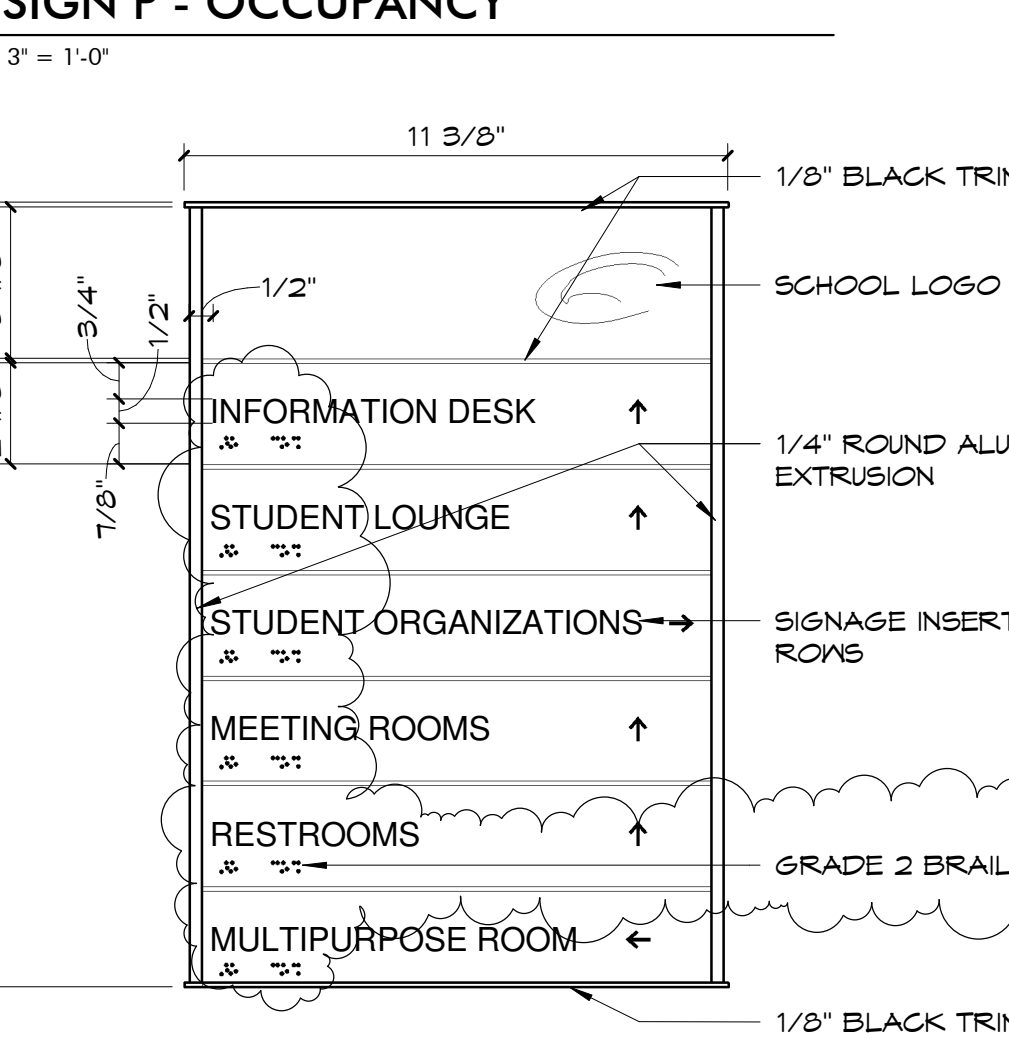
SIGN L - DIRECTIONAL
3" = 1'-0"



SIGN P - OCCUPANCY
3" = 1'-0"



SIGN S1 - SIDE MOUNTED DIRECTIONAL
3" = 1'-0"



SIGN T - LARGE DIRECTIONAL
3" = 1'-0"

SIGN TYPES

SIGNAGE NOTES

1. ROOM SIGNAGE, DIRECTORIES, AND WAY-FINDING SIGNAGE THROUGHOUT BUILDING ARE INCLUDED IN ALTERNATE NO. 4.
2. STANDARD MOUNTING HEIGHT SHALL COMPLY WITH ANSI.
3. ALL INTERIOR SIGNAGE SHALL BE 1/8" THICK INTERIOR PHOTOPOLYMER WITH RAISED TACTILE CHARACTERS, SYMBOLS, AND GRADE 2 BRAILLE.
4. ALL COPY SHALL BE 'FUTURA MD BT' TYPEFACE WITH ALL GAPS AND NORMAL SPACING. TEXT HEIGHT AS SHOWN ON SIGNAGE DIAGRAMS.
5. COLOR OF INTERIOR SIGNS SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S AVAILABLE COLORS. COLOR FOR TEXT AND PICTOGRAMS SHALL BE WHITE.
6. ALL SIGNS MOUNTED ON GLASS SHALL HAVE NO MOUNTING HOLES. PROVIDE 1/8" THICK SINTRA BACK COVER PLATE OF SAME SIZE AND COLOR TO MATCH SIGNAGE. UNO.
7. REMOVE ALL EXISTING ROOM SIGNAGE INCLUDED IN WORK AREA. PATCH AND REPAIR WALL AS NECESSARY.