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**New Kennel Facility
Best Fido Friends**
Waco, Texas
RBDR Project No.: 15112



Grant Dudley
07-DEC-2016

ADDENDUM NO. 2 – December 7, 2016

Acknowledge receipt of this addendum by inserting its number and date in your Proposal. Failure to do so may subject proposal to disqualification. This addendum forms a part of the contract documents. It modifies them as follows:

SPECIFICATIONS:

1. SECTION **012300** - ALTERNATES: Section revised and re-issued herewith (page 012300-1 thru 012300-2).
2. SECTION **074213.13** – FORMED METAL WALL PANELS: Section revised and re-issued herewith (pages 074213.13-1 thru 074213.13-6).

DRAWINGS:

3. Sheet **A8.1** – Door & Window Types, Door Schedule, Details: Sheet revised as indicated and re-issued herewith in its entirety.

END OF ADDENDUM NO. 2

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

- 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
- 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 1:
 - 1. Base Bid: HMAC pavement as indicated in the civil drawings.
 - 2. Alternate: Concrete pavement as indicated in the civil drawings.
- B. Alternate No. ~~insert number~~2:
 - 1. Base Bid: Decorative CMU, Burnished finished at exterior, Regular and Tiled finish at the interior.
 - 2. Alternate: Decorative CMU, Polished finished both sides.

RBDR, PLLC - Architects
Waco, Texas

New Kennel Facility
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END OF SECTION 012300

SECTION 074213.13 - FORMED METAL WALL PANELS

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. Exposed-fastener, lap-seam metal wall panels.
 - 2. Metal liner panels.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
 - 3. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
 - 4. Review flashings, special siding details, wall penetrations, openings, and condition of other construction that affect metal panels.
 - 5. Review temporary protection requirements for metal panel assembly during and after installation.
 - 6. Review of procedures for repair of metal panels damaged after installation.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.
- B. Samples for Verification: For each type of exposed finish, prepared on Samples of size indicated below:
 - 1. Metal Panels: 12 inches long by actual panel width. Include fasteners, closures, and other metal panel accessories.

1.5 QUALITY ASSURANCE

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

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
- B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
- C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Retain strippable protective covering on metal panels during installation.

- E. Copper Panels: Wear gloves when handling to prevent fingerprints and soiling of surface.

1.7 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

1.8 COORDINATION

- A. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including rupturing, cracking, or puncturing.
 - b. Deterioration of metals and other materials beyond normal weathering.
 - 2. Warranty Period: Two years from date of Substantial Completion.
- B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 EXPOSED-FASTENER, LAP-SEAM METAL WALL PANELS

- A. General: Provide factory-formed metal panels designed to be field assembled by lapping side edges of adjacent panels and mechanically attaching panels to supports using exposed fasteners in side laps. Include accessories required for weathertight installation.
- B. Corrugated-Profile, Exposed-Fastener Metal Wall Panels : Formed with alternating curved ribs spaced at 2.67 inches o.c. across width of panel.
 - 1. 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:
 - 2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. MBCI; a division of NCI Group, Inc.
 - b. Metal Sales Manufacturing Corporation.
 - c. Morin - A Kingspan Group Company.
 - 3. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
 - a. Nominal Thickness: 0.028 inch.

- b. Exterior Finish: Two-coat fluoropolymer.
- c. Color: As selected by Architect from manufacturer's full range.
- 4. Rib Spacing: 2.67 inches o.c.
- 5. Panel Coverage: 34.6 inches.
- 6. Panel Height: 0.875 inch.

2.2 METAL LINER PANELS

- A. General: Provide factory-formed metal liner panels designed for interior side walls and field assembled by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners in side laps. Include accessories required for a complete installation.
- B. Corrugated-Profile, Perforated, Exposed-Fastener Metal Liner Panels : Formed with alternating curved ribs spaced at 2.67 inches o.c. across width of panel.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by the following available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 2. Basis-of-Design Product: Subject to compliance with requirements, provide product or comparable product by one of the following:
 - a. Fabral.
 - b. Petersen Aluminum Corporation.
 - 3. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
 - a. Nominal Thickness: 0.028 inch.
 - b. Exterior Finish: Two-coat fluoropolymer.
 - c. Color: As selected by Architect from manufacturer's full range.
 - 4. Panel Coverage: 36 inches.
 - 5. Height: 7/8 inches.
- C. Acoustical Performance: Where sound-absorption requirement is indicated, fabricate interior liner panels with 1/8-inch- diameter holes uniformly spaced approximately 1000 holes/sq. ft..

2.3 MISCELLANEOUS MATERIALS

- A. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
 - 1. Closures: Provide closures at eaves and rakes, fabricated of same metal as metal panels.
- B. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.
- C. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.

- D. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
 - 1. Joint Sealant: ASTM C 920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.

2.4 FINISHES

- A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Steel Panels and Accessories:
 - 1. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
 - 1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal wall panel manufacturer.
 - 2. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal wall panel manufacturer.
 - a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
- B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.

3.3 METAL PANEL INSTALLATION

- A. General: Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
 - 1. Shim or otherwise plumb substrates receiving metal panels.
 - 2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.
 - 3. Install screw fasteners in predrilled holes.
 - 4. Locate and space fastenings in uniform vertical and horizontal alignment.
 - 5. Install flashing and trim as metal panel work proceeds.

6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
 7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
 8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
- B. Fasteners:
1. Steel Panels: Use stainless-steel fasteners for surfaces exposed to the exterior; use galvanized-steel fasteners for surfaces exposed to the interior.
- C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.
- D. Lap-Seam Metal Panels: Fasten metal panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.
1. Lap ribbed or fluted sheets one full rib. Apply panels and associated items true to line for neat and weathertight enclosure.
 2. Provide metal-backed washers under heads of exposed fasteners bearing on weather side of metal panels.
 3. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
 4. Install screw fasteners with power tools having controlled torque adjusted to compress washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
 5. Flash and seal panels with weather closures at perimeter of all openings.
- E. Watertight Installation:
1. Apply a continuous ribbon of sealant or tape to seal lapped joints of metal panels, using sealant or tape as recommend by manufacturer on side laps of nesting-type panels; and elsewhere as needed to make panels watertight.
 2. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
 3. At panel splices, nest panels with minimum 6-inch end lap, sealed with sealant and fastened together by interlocking clamping plates.
- F. Metal Liner Panels: Install panels on interior side of girts with flush appearance on the inside.
- G. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
1. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal wall panel manufacturer; or, if not indicated, provide types recommended by metal panel manufacturer.
- H. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.
1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof performance.

2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect completed metal wall panel installation, including accessories.
- C. Remove and replace metal wall panels where tests and inspections indicate that they do not comply with specified requirements.
- D. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.
- E. Prepare test and inspection reports.

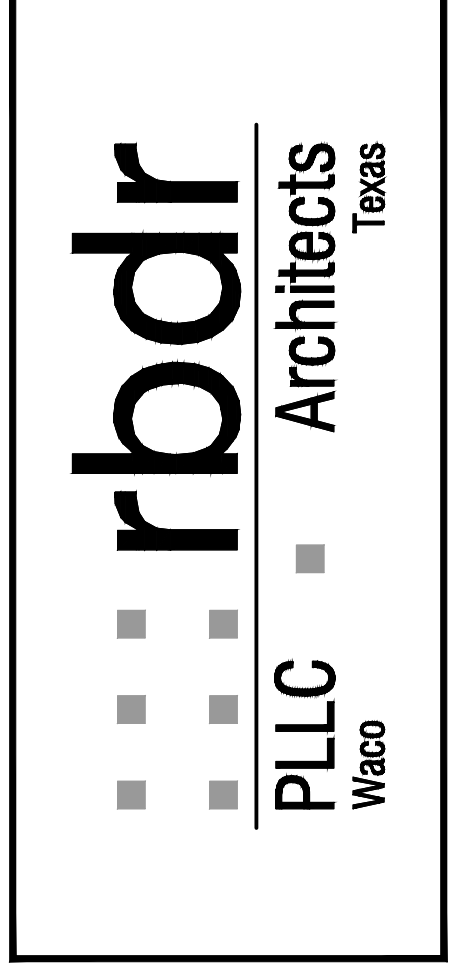
3.5 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
- B. After metal panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.
- C. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 074213.13

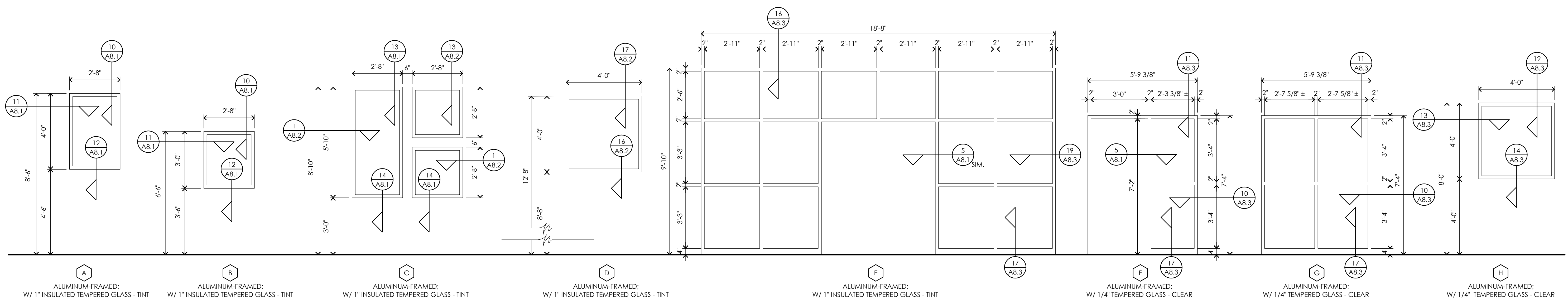


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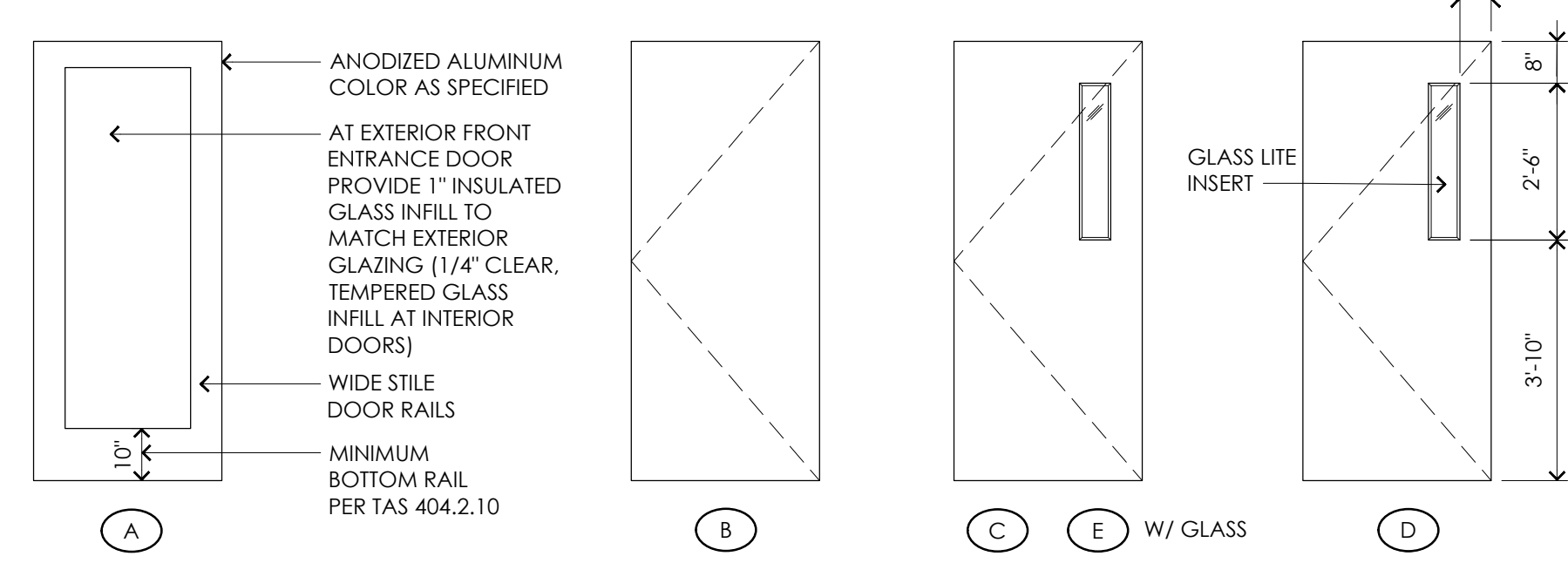


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|-------------|---------------|----------------------|-------------|-------------|
| Drafted By: | CJG | | | |
| Checked By: | GD | | | |
| Date Drawn: | NOVEMBER 2016 | | | |
| Project #: | 15112 | | | |
| REV # | DATE | REVISION DESCRIPTION | ADDENDUM #1 | ADDENDUM #2 |
| 1 | 12/05/2016 | | | |
| 2 | 12/07/2016 | | | |

A8.1



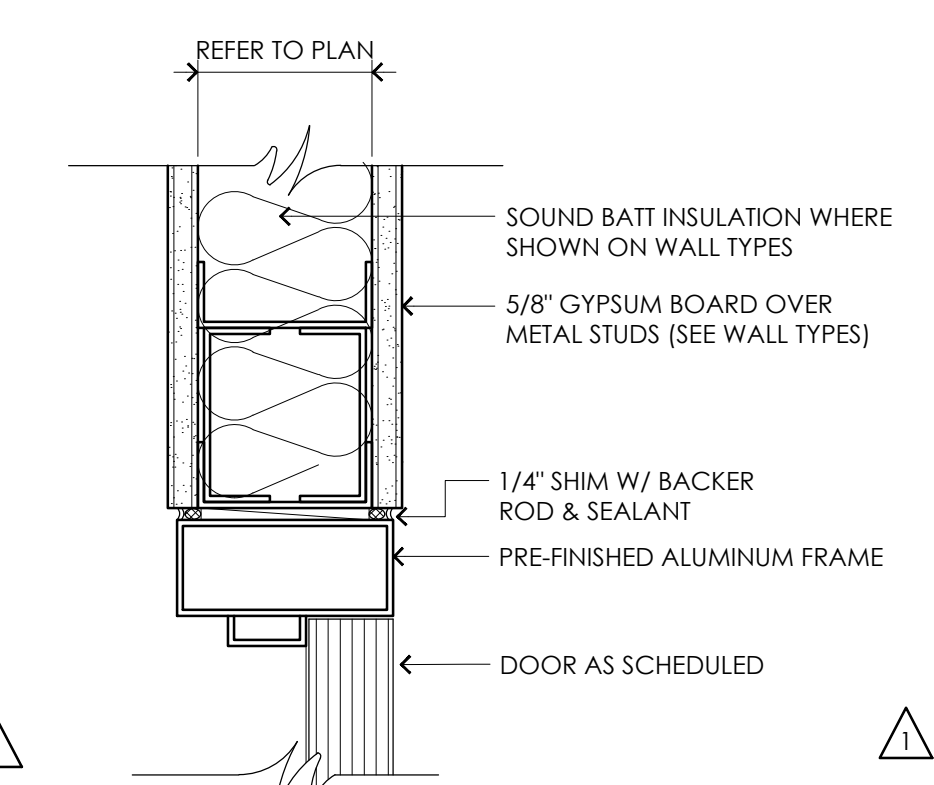
1 WINDOW AND GLAZING TYPES
 SCALE: 3/8" = 1'-0"
 OVERALL DIMENSIONS ARE SHOWN TO ROUGH OPENING.
 .032 MATCHING ALUM. SILL FLASHING TYPICAL AT ALL GLAZING AT GRADE. TURN UP END FLANGE.
 ALL GLASS INSULATED.



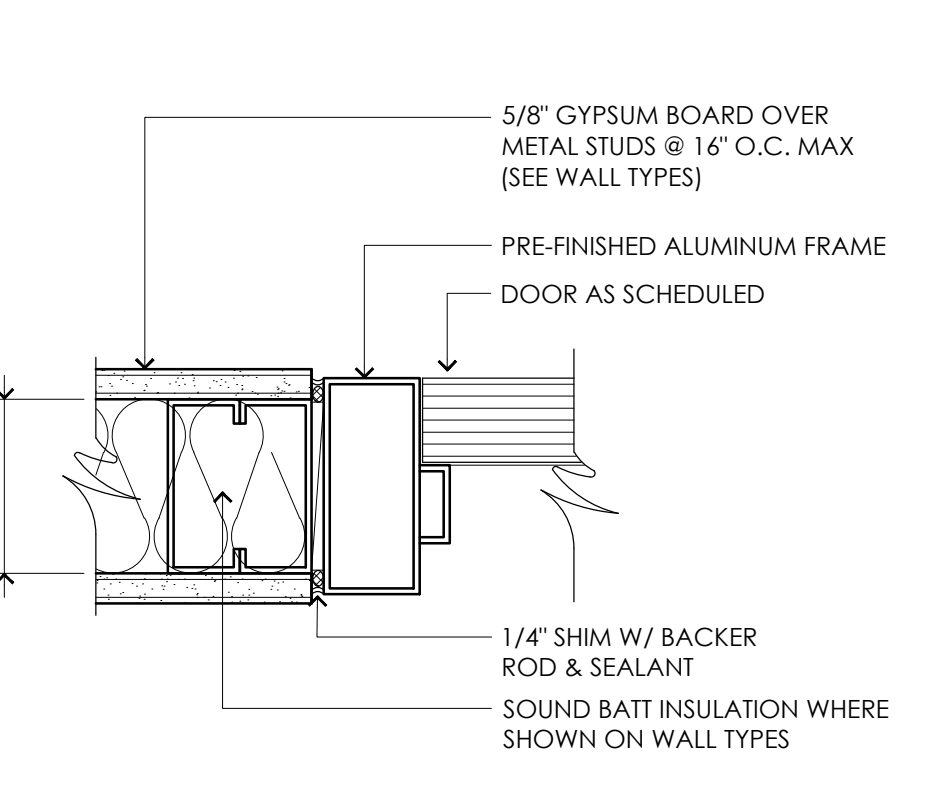
2 DOOR TYPES
 SCALE: 3/8" = 1'-0"

| DOOR & FRAME SCHEDULE | | | | | | | | | | |
|-----------------------|------|-------|---------------|--------|--------|--------------|-------------------|-------------|---------|-----|
| NO. | DOOR | | | FRAME | | | FIRE RATING LABEL | HDW SET NO. | REMARKS | |
| | TYPE | MTL | SIZE | MTL | DETAIL | SILL | | | | |
| 101 | A | ALUM. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 16/AB.3(SIM) | 19/AB.3(SIM) | - | 23.0 | 1 |
| 102 | E | S.C. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 3/AB.1 | 4/AB.1 | - | 5.1 | - |
| 103 | C | S.C. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 3/AB.1 | 4/AB.1 | - | 9.0 | - |
| 104A | A | ALUM. | 3'-0" x 7'-2" | 1 3/4" | ALUM. | 8/AB.2 | 9/AB.2 | - | 22.0 | - |
| 104B | A | ALUM. | 3'-0" x 7'-2" | 1 3/4" | ALUM. | 8/AB.2 | 9/AB.2 | - | 22.0 | - |
| 105 | C | S.C. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 6/AB.1 | 7/AB.1 | - | 5.0 | - |
| 106 | E | S.C. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 3/AB.1 | 4/AB.1 | - | 12.0 | - |
| 107 | D | F.G. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 3/AB.1 | 4/AB.1 | - | 22.0 | - |
| 108 | D | F.G. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 6/AB.1 | 7/AB.1 | - | 3.0 | 2,3 |
| 109 | D | F.G. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 6/AB.1 | 7/AB.1 | - | 3.0 | 2,3 |
| 110 | B | F.G. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 6/AB.1 | 7/AB.1 | - | 9.1 | - |
| 111 | D | F.G. | 3'-0" x 7'-0" | 1 3/4" | ALUM. | 6/AB.1 | 7/AB.1 | - | 3.0 | 2,3 |

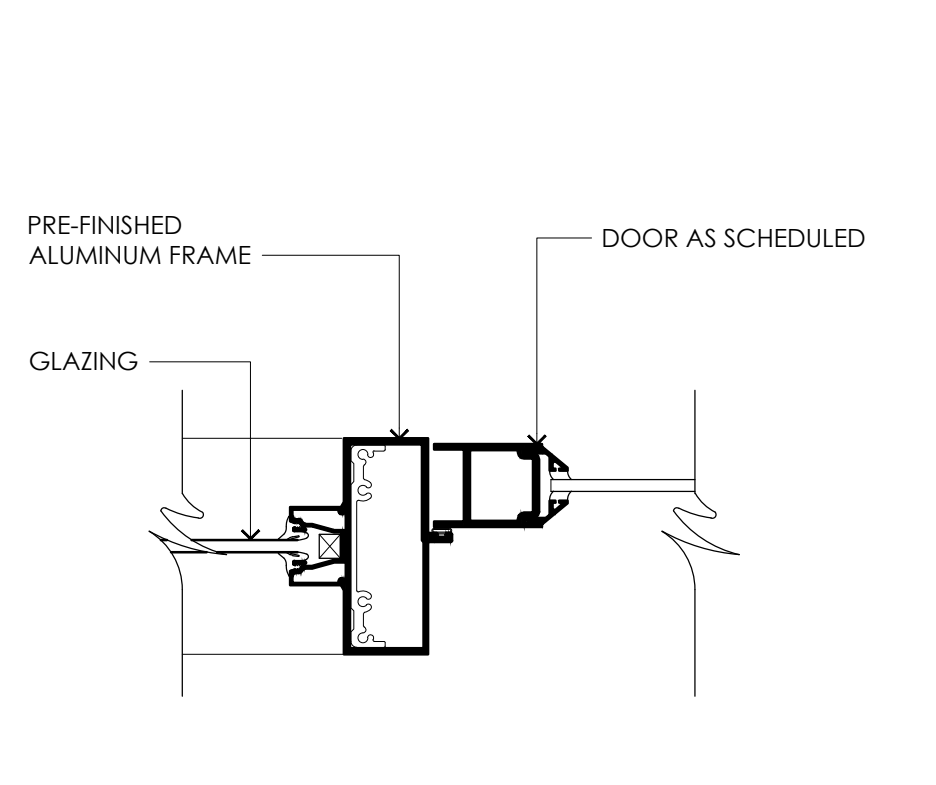
| DOOR SCHEDULE LEGEND | |
|--------------------------|--------------------------|
| DOOR MATERIAL | |
| ALUM. | ALUMINUM-FRAMED ENTRANCE |
| S.C. | SOLID CORE (WOOD VENEER) |
| F.G. | FIBERGLASS |
| FRAME MATERIAL | |
| ALUM. | ALUMINUM-FRAMED ENTRANCE |
| DOOR SCHEDULE KEY | |
| NO. | REMARKS |
| 1 | PAIR OF DOORS |
| 2 | INSULATED |
| 3 | CARD READER |



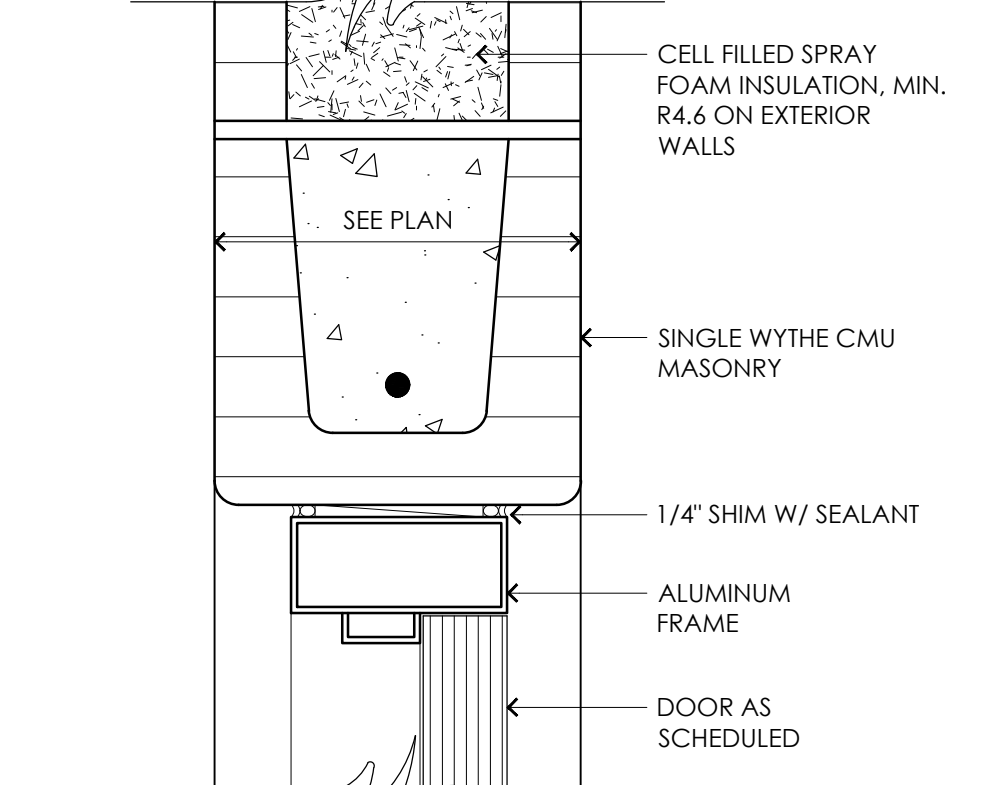
3 DOOR HEAD @ METAL STUD
 SCALE: 3" = 1'-0"



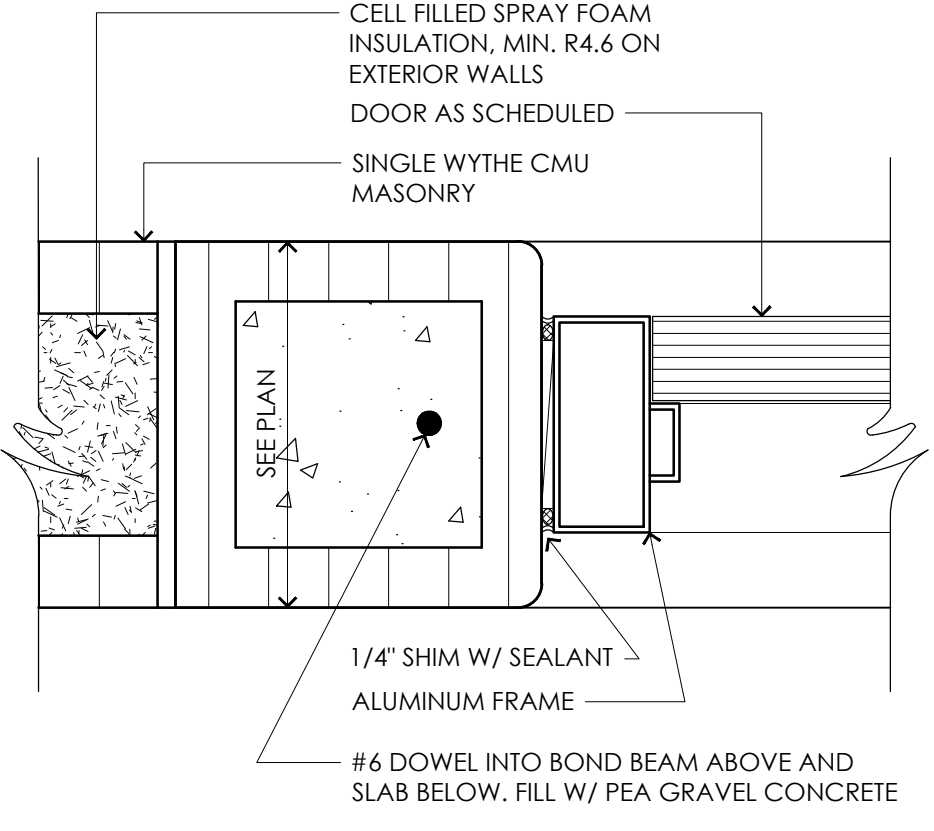
4 DOOR JAMB @ METAL STUD
 SCALE: 3" = 1'-0"



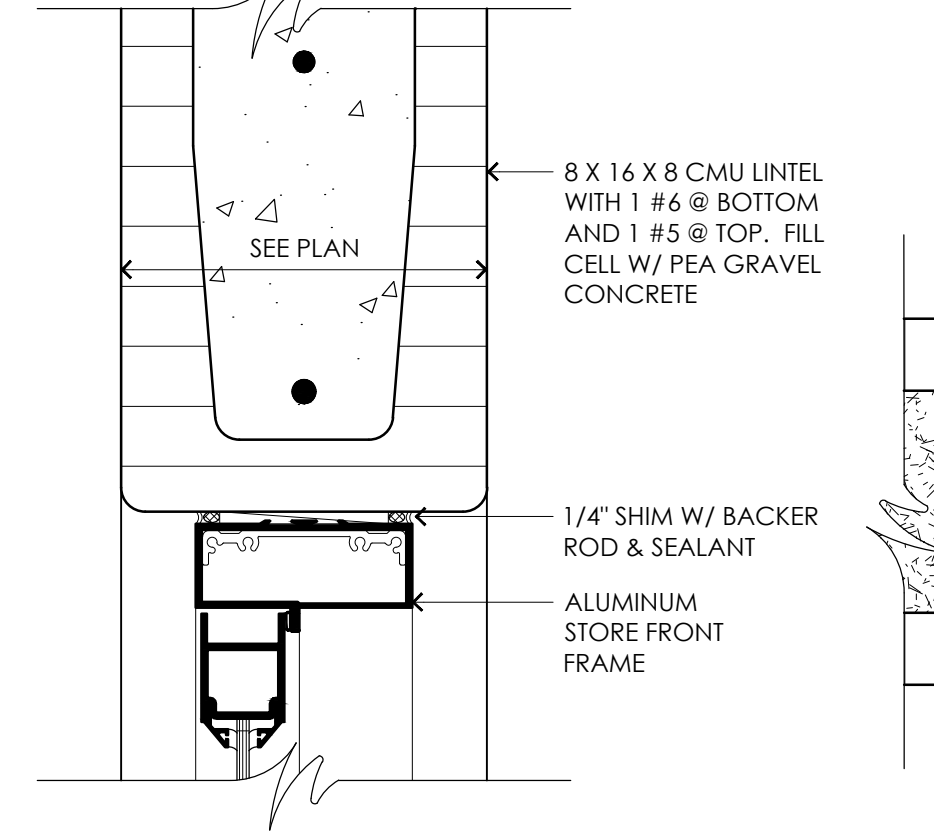
5 DOOR JAMB @ CMU
 SCALE: 3" = 1'-0"



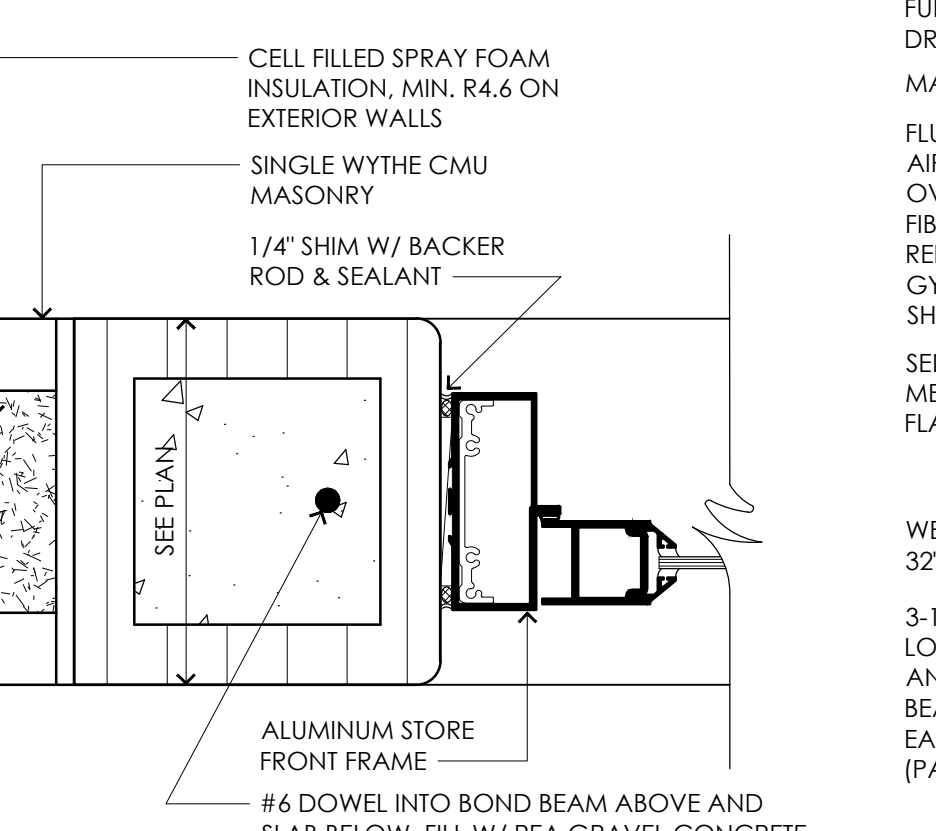
6 DOOR HEAD @ CMU
 SCALE: 3" = 1'-0"



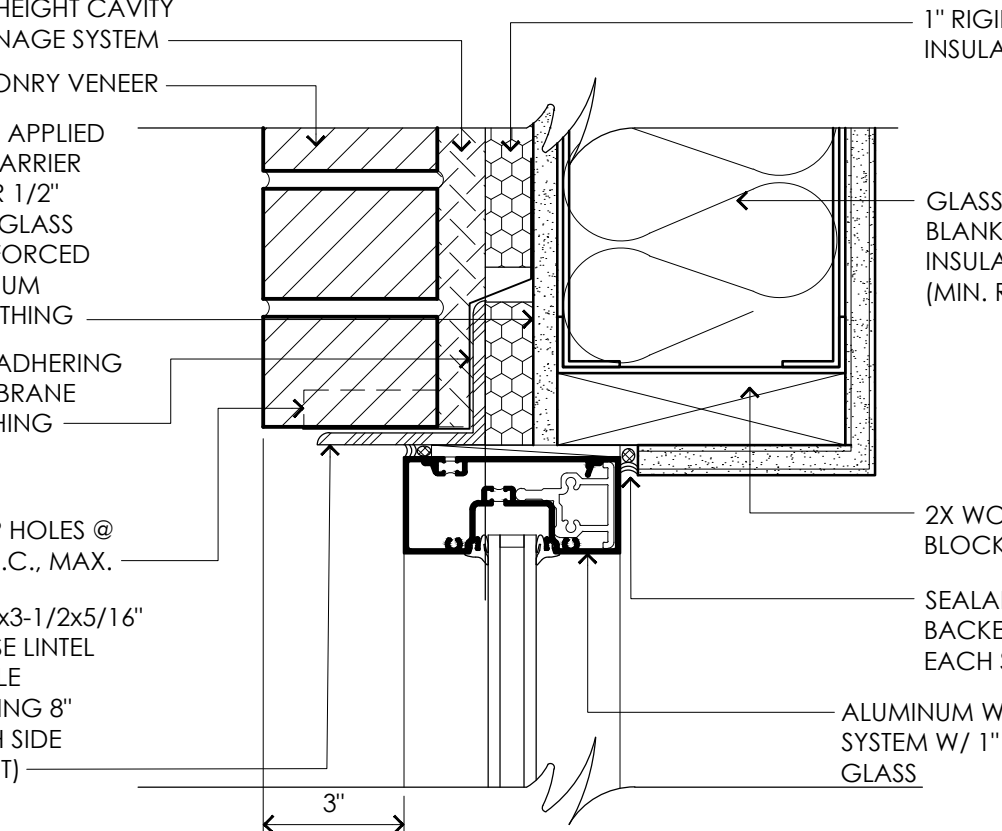
7 DOOR JAMB @ CMU
 SCALE: 3" = 1'-0"



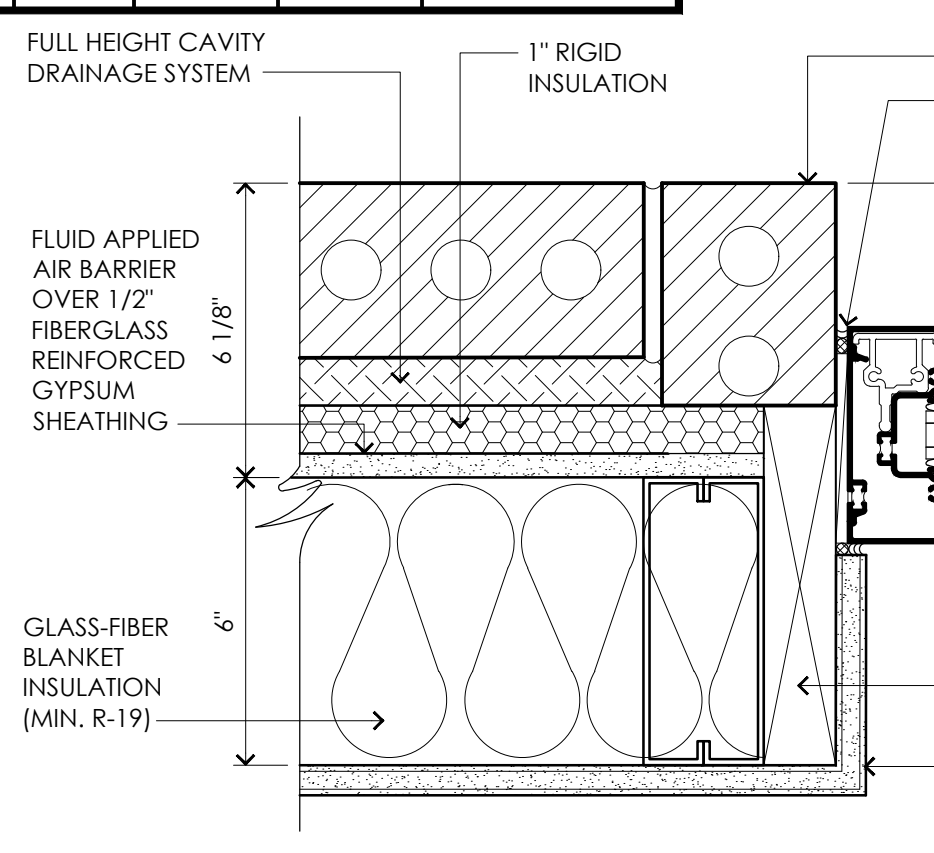
8 DOOR HEAD @ CMU
 SCALE: 3" = 1'-0"



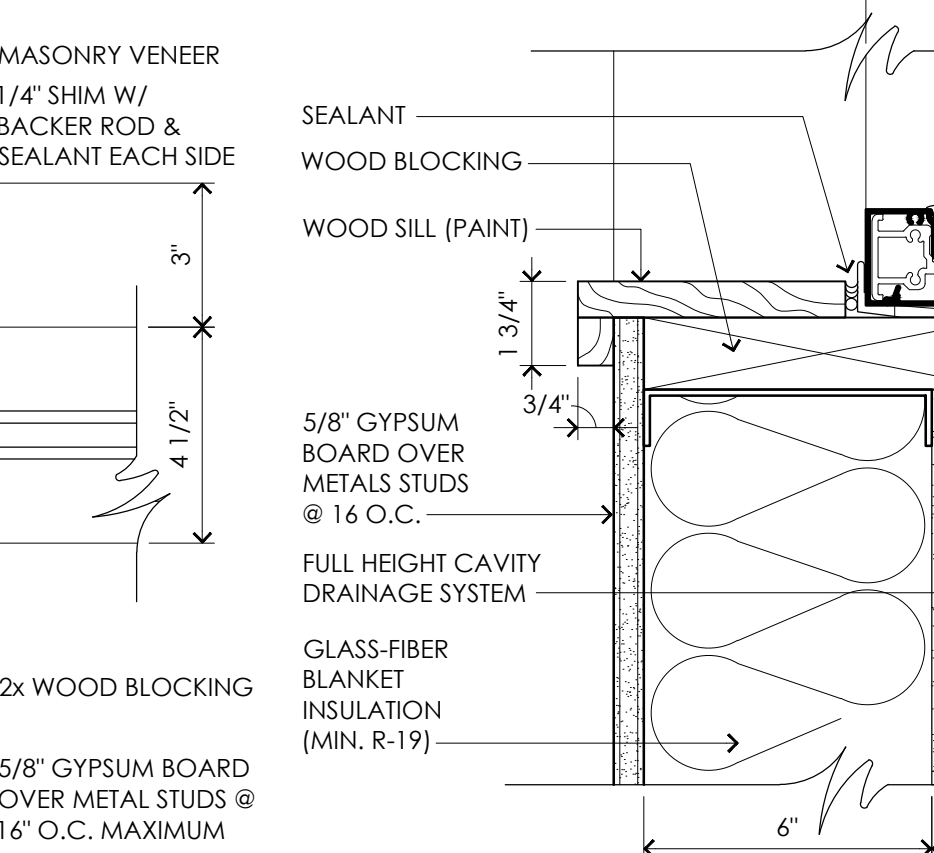
9 DOOR JAMB @ CMU
 SCALE: 3" = 1'-0"



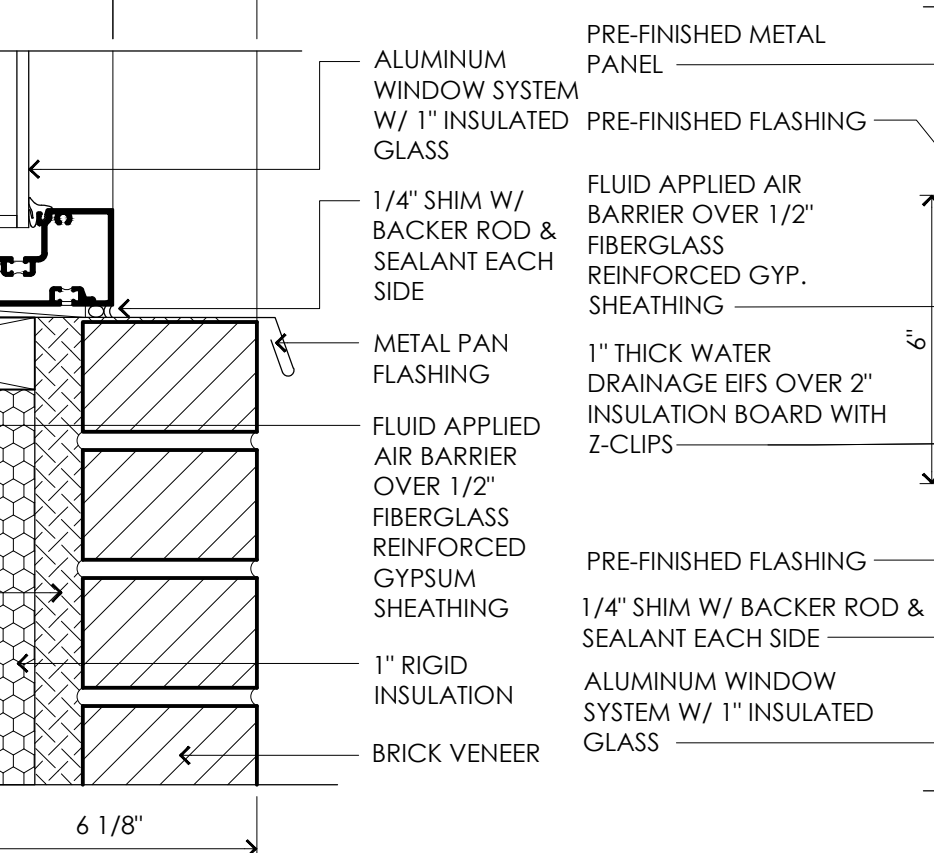
10 EXTERIOR WINDOW HEAD @ BRICK VENEER
 SCALE: 3" = 1'-0"



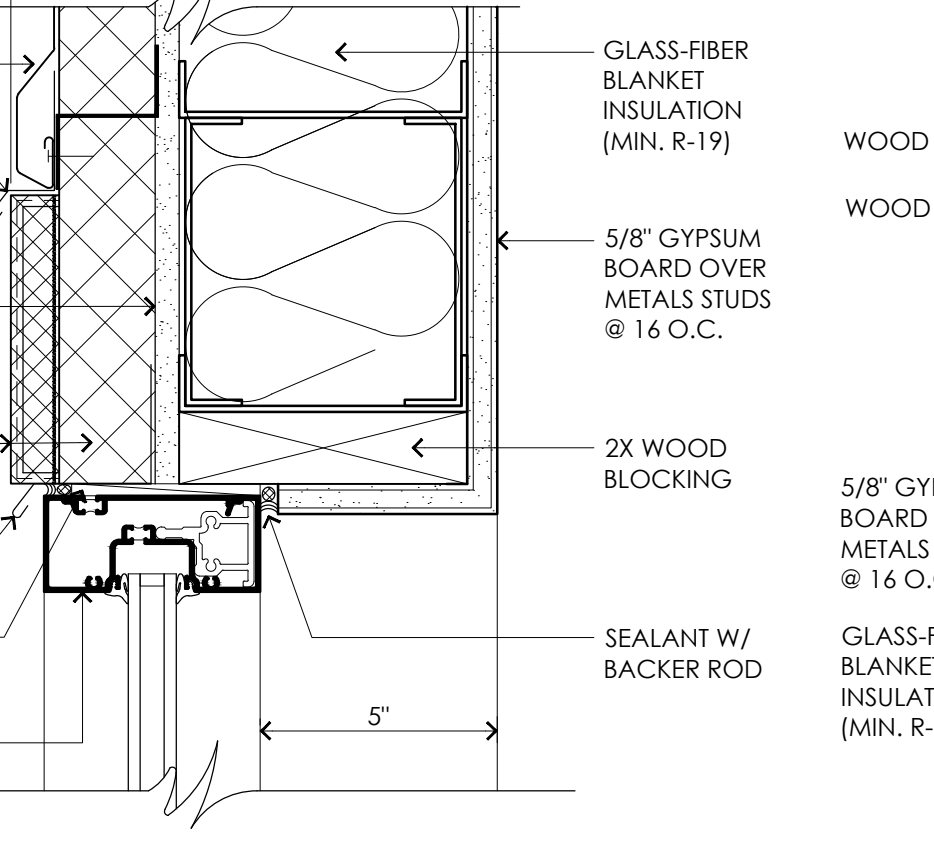
11 EXTERIOR WINDOW JAMB @ BRICK VENEER
 SCALE: 3" = 1'-0"



12 EXTERIOR WINDOW SILL @ BRICK VENEER
 SCALE: 3" = 1'-0"



13 EXTERIOR WINDOW HEAD @ METAL SIDING WITH EIFS
 SCALE: 3" = 1'-0"



14 EXTERIOR WINDOW SILL @ METAL SIDING WITH EIFS
 SCALE: 3" = 1'-0"