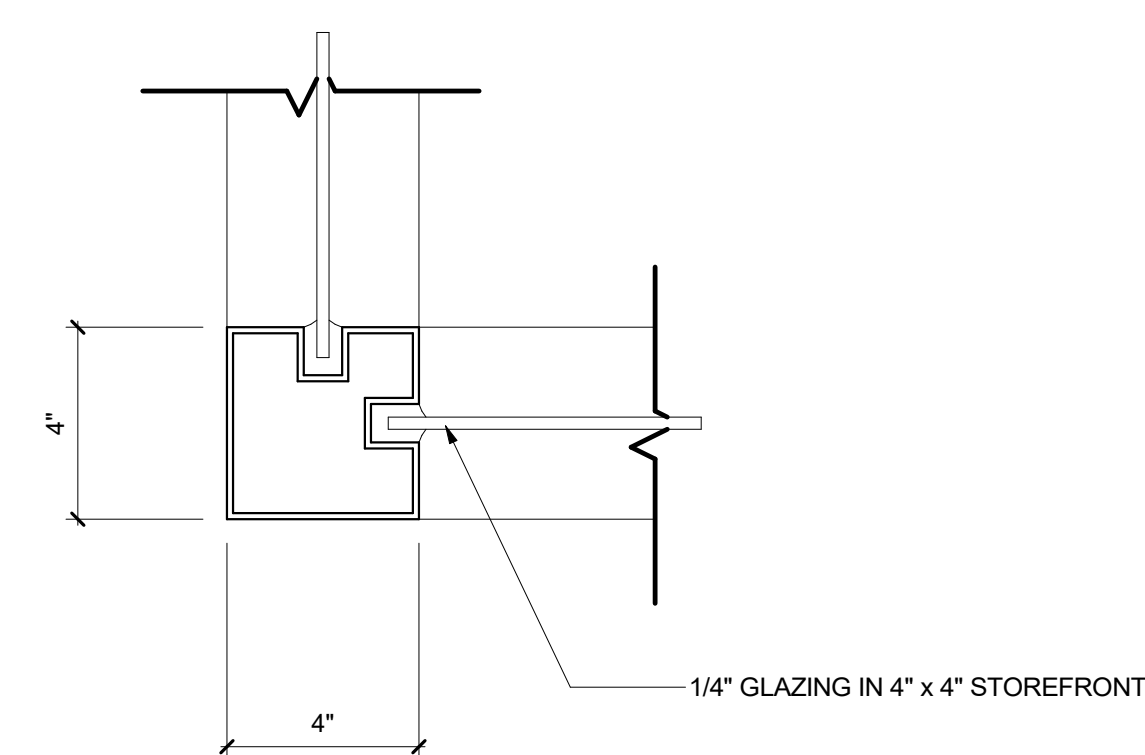
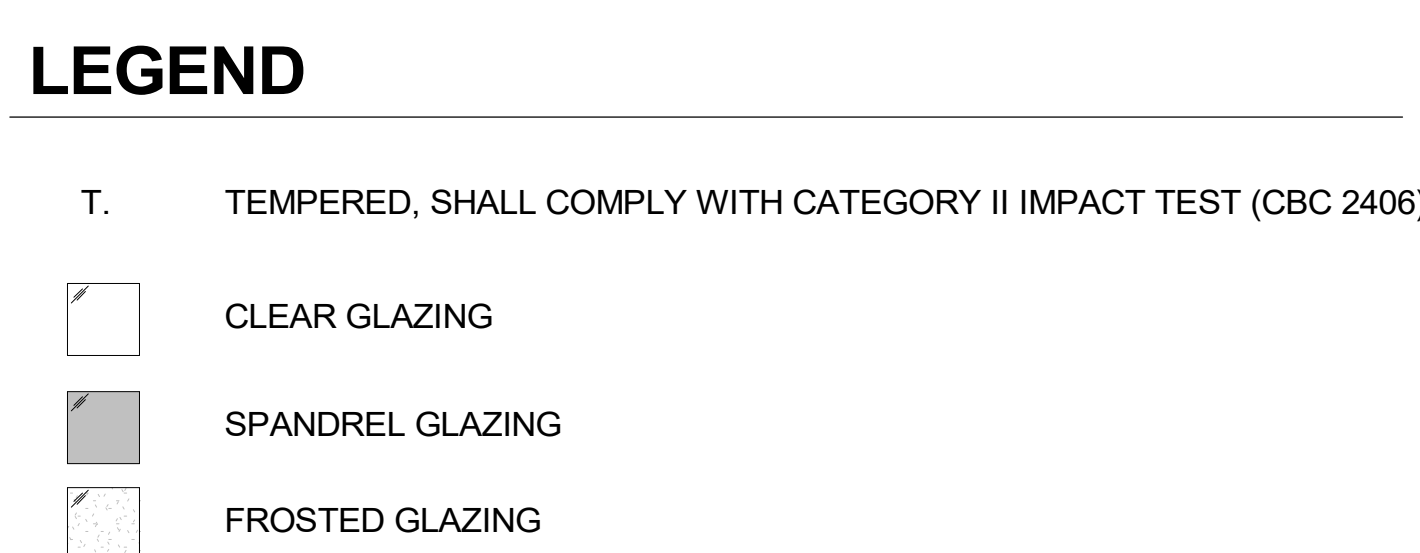
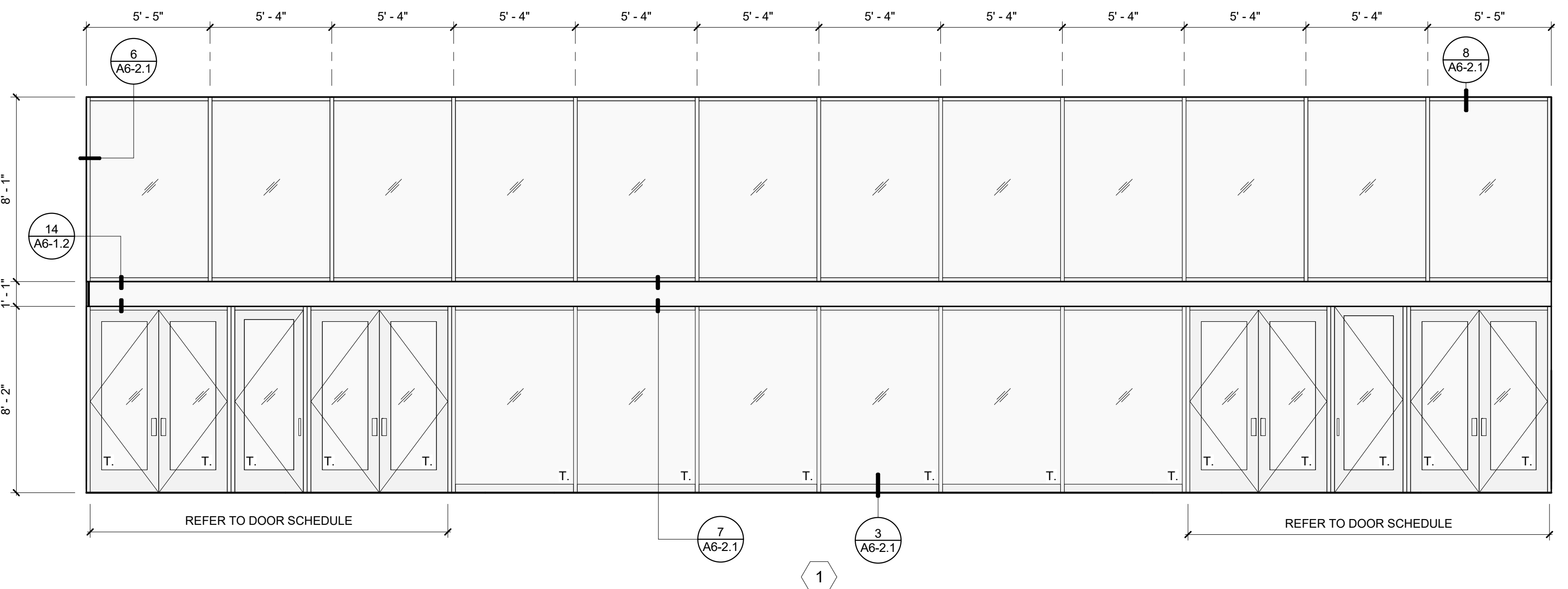
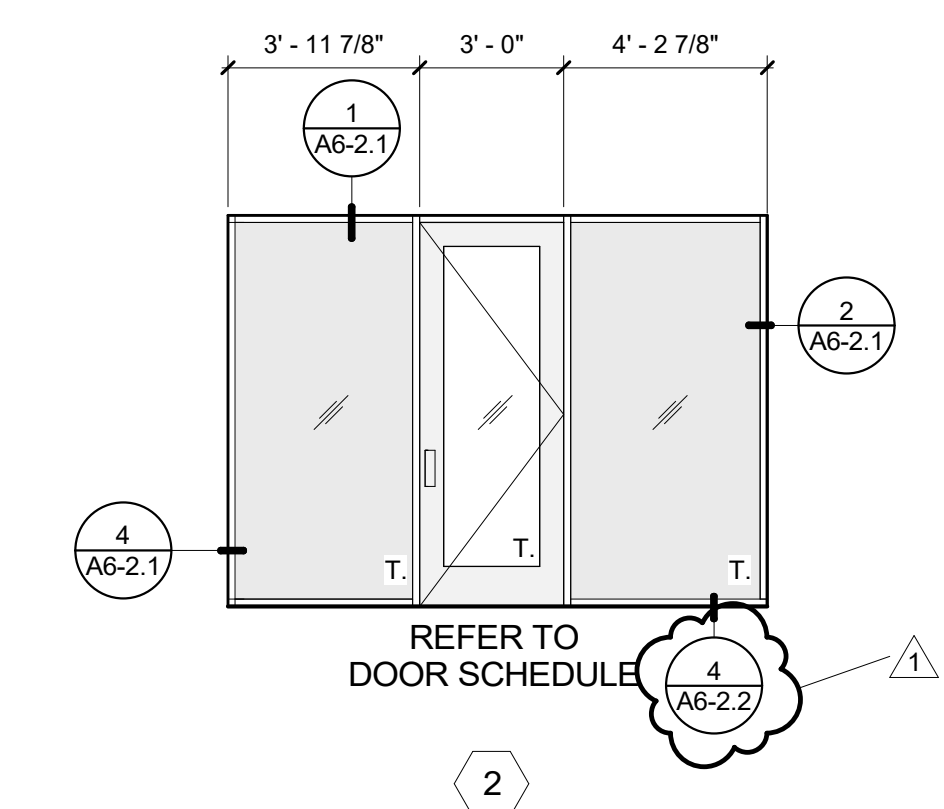
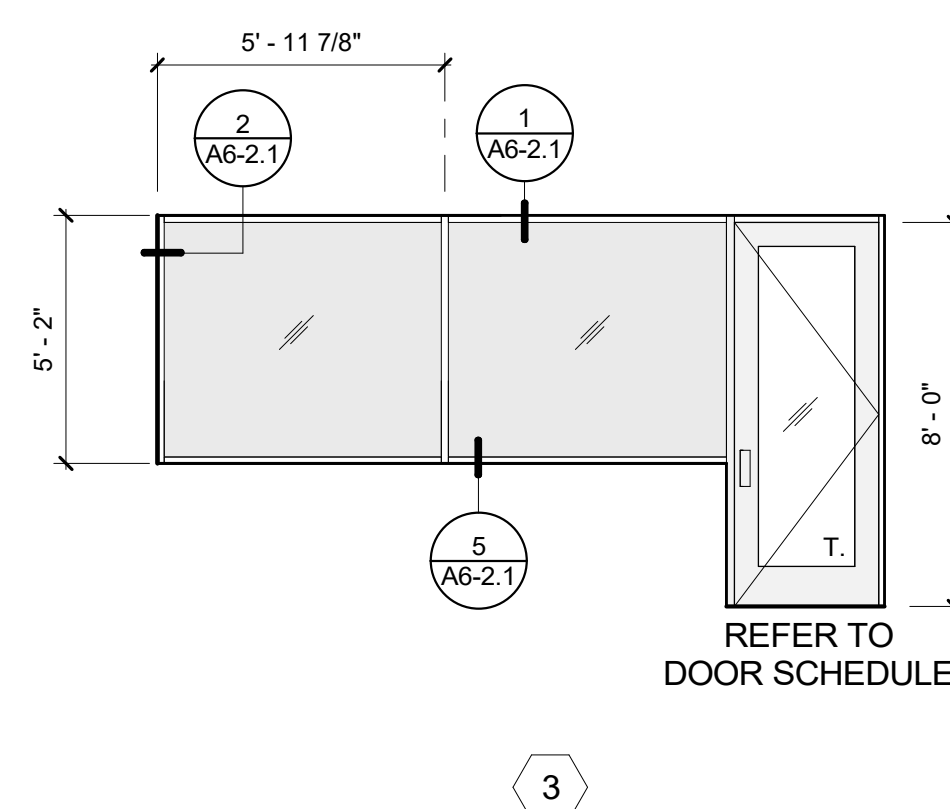
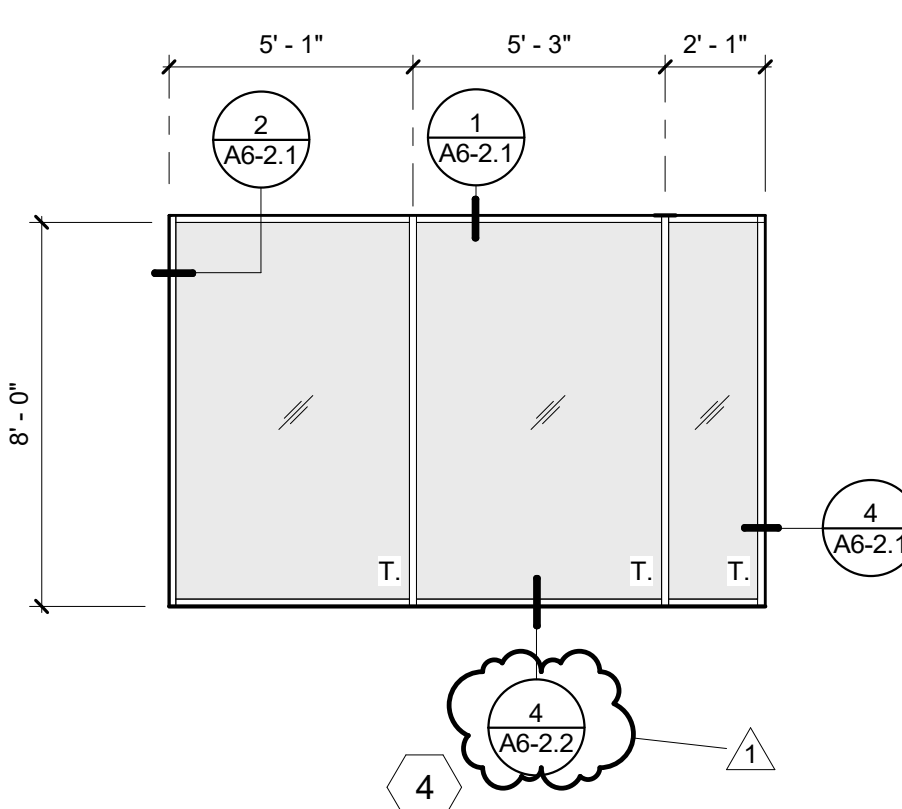
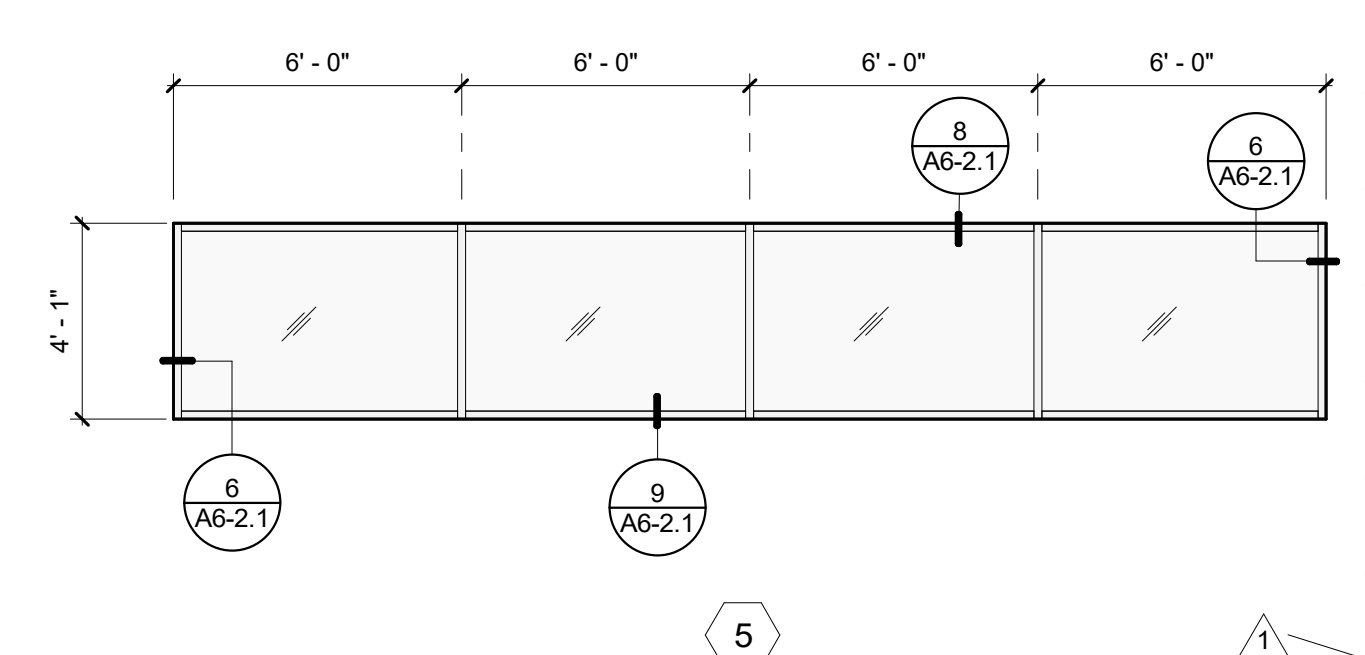
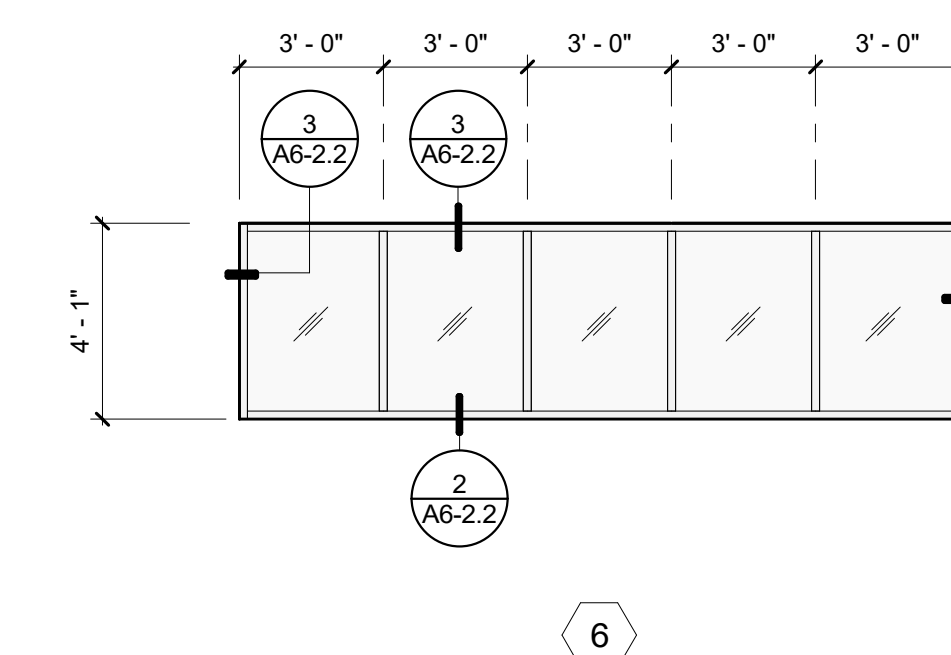
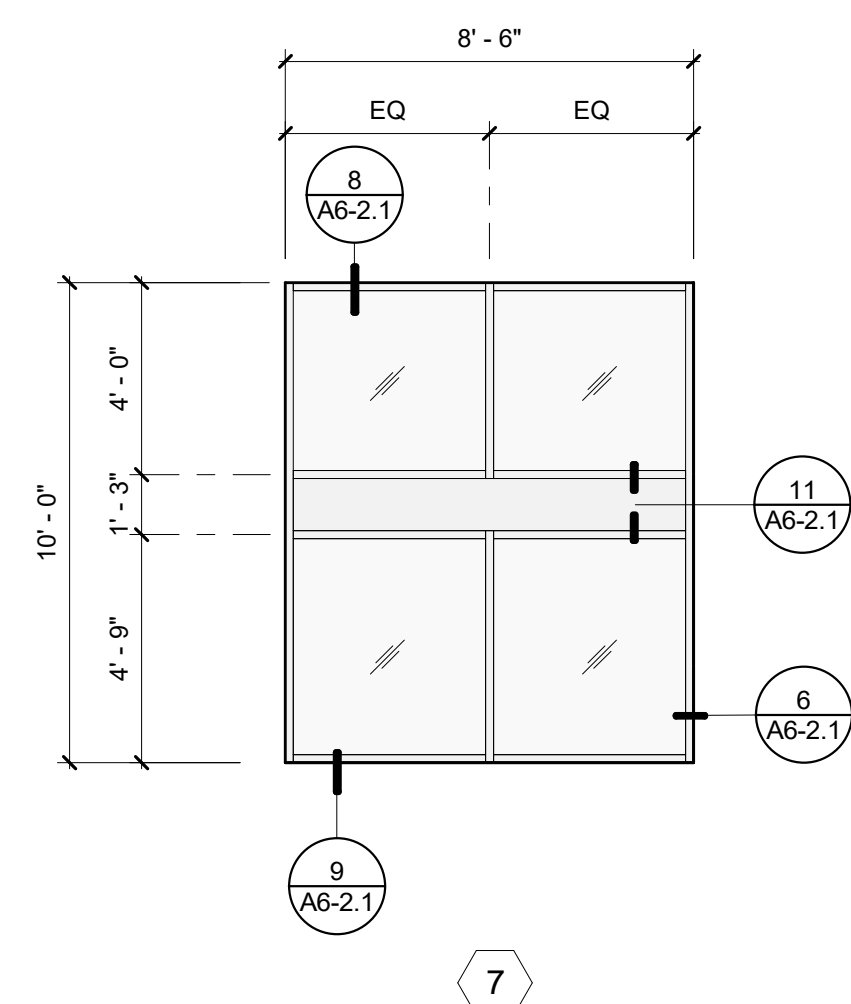
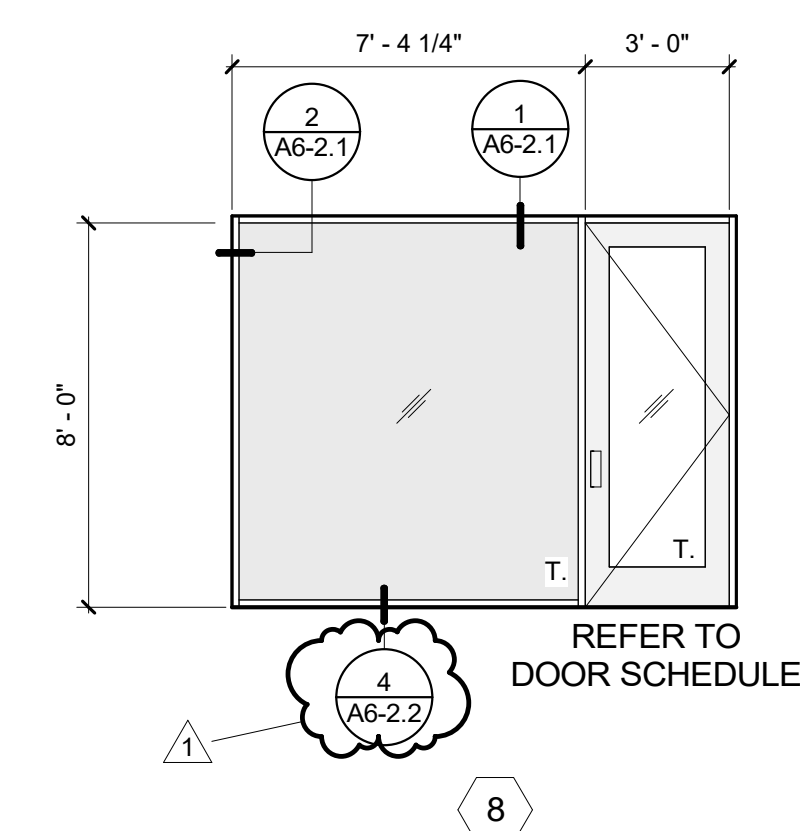
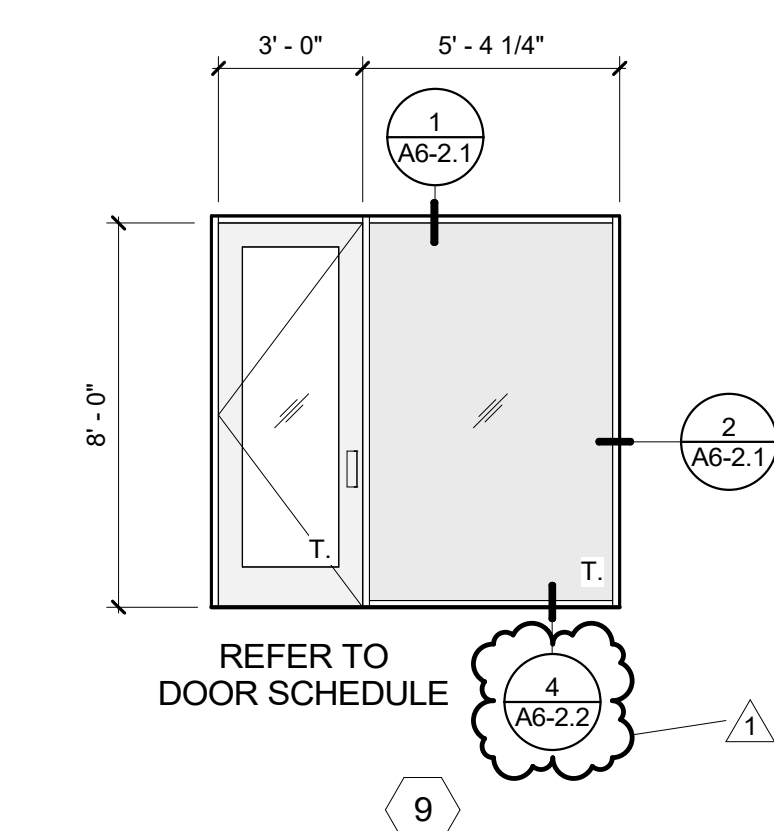
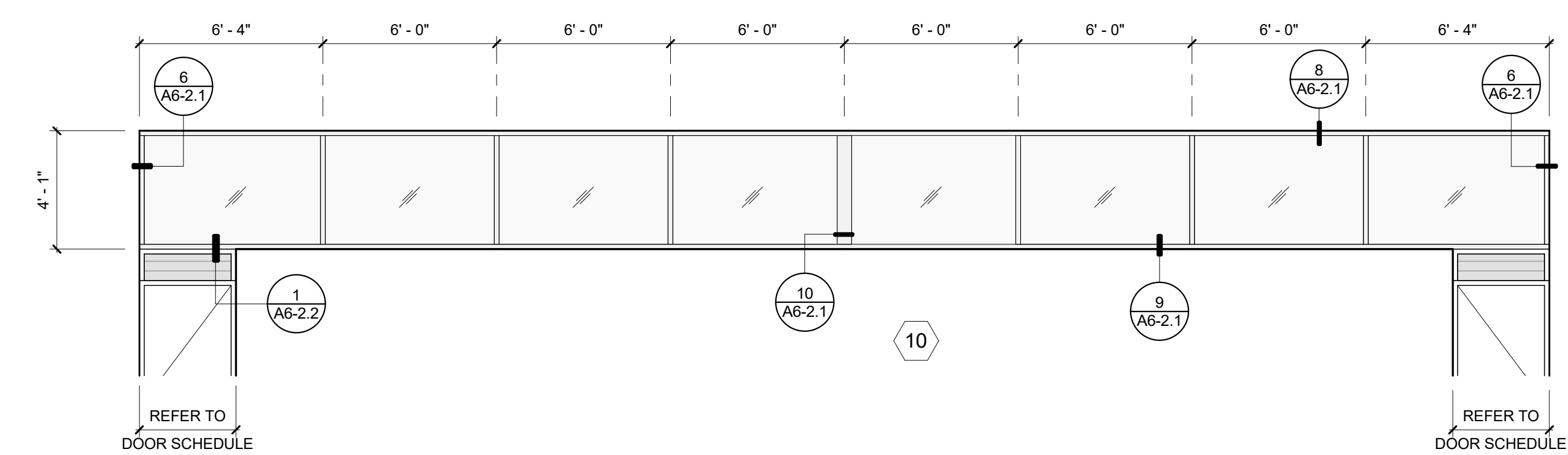
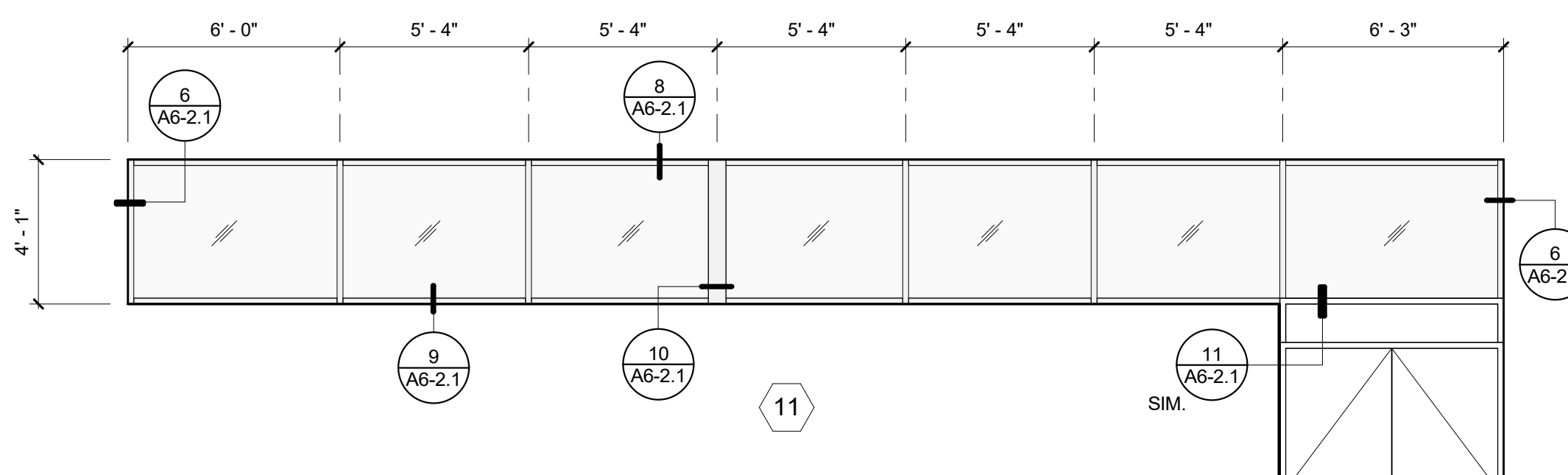
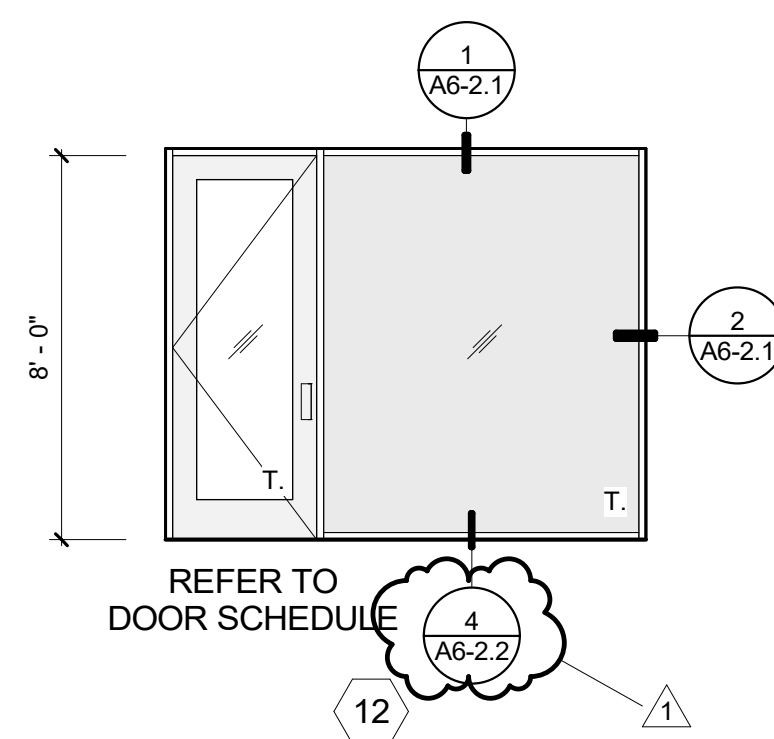
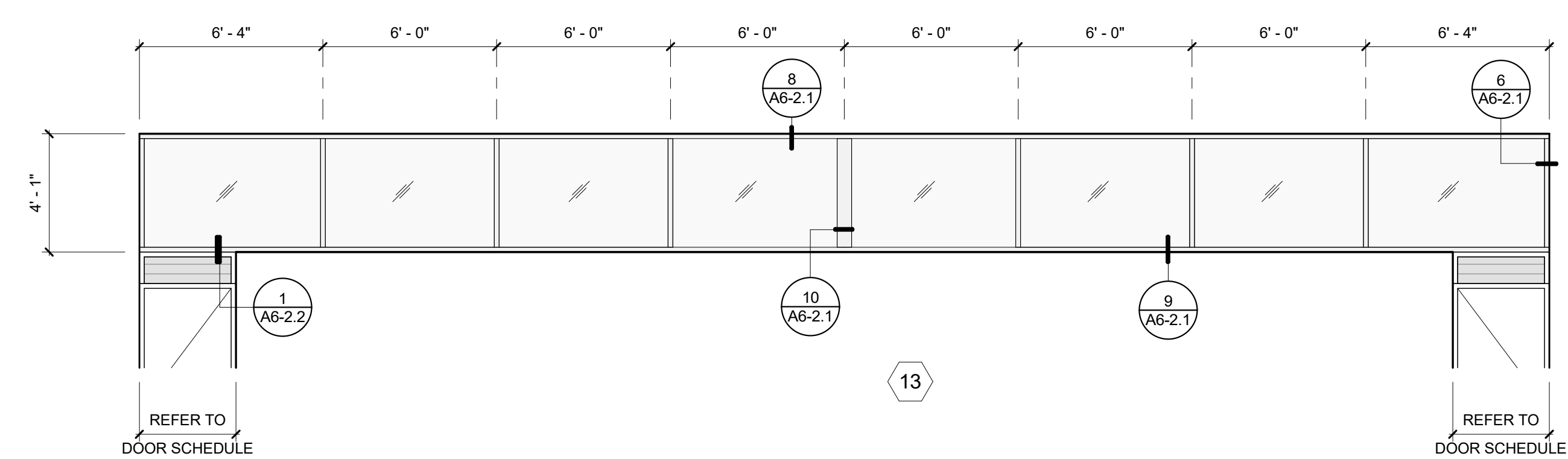
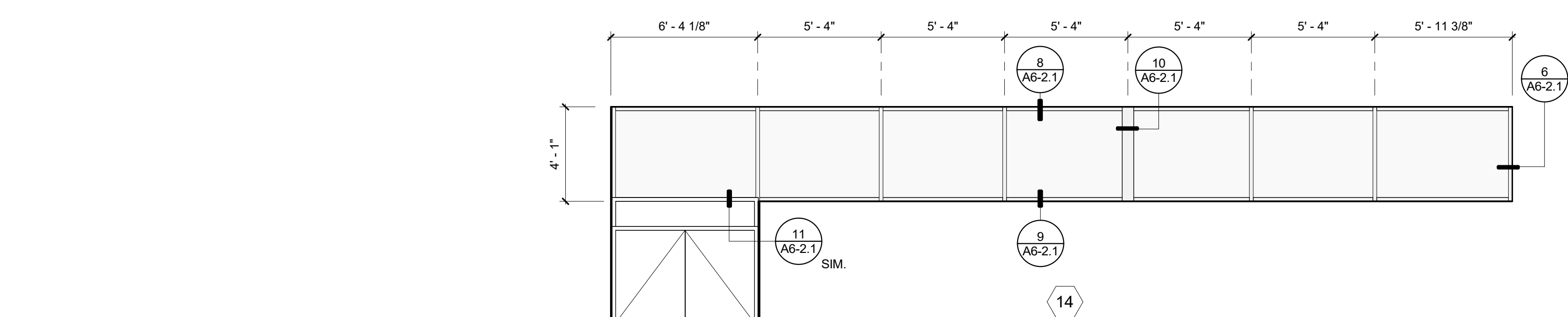


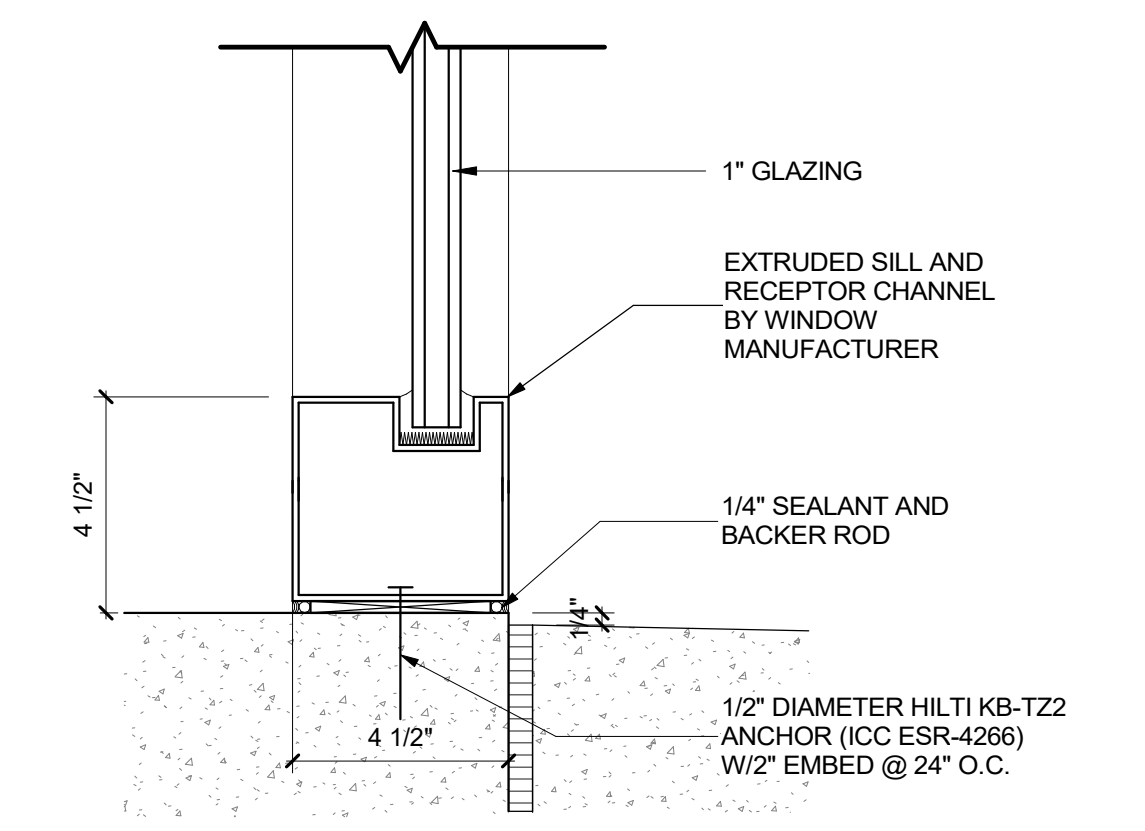
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PROJECT NUMBER:		Project No. 2024-017 / DSA #03-123950	
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		Roy Frey WestGroup Designs	royf@westgroupdesigns.com
DATE:	01/23/25		
FROM:	AMG & Associates, Inc David Silva 661-251-7401	EMAIL:	estimating@ amgassociatesinc.com
DOCUMENT/DIVISION NUMBER:		DRAWING NUMBER:	

All the interior Storefront is detailed as an exterior Storefront System with 1" Insulated glass (Base Bid - New Sports Complex)
Should we follow the drawings/spec? Or bid an interior storefront system with 1/4" Clear T. glass where applicable.
Elevations this applies to: 2, 3, 4, 8, 9, & 12 per Sheet A6-2.1. Same applies for all interior aluminum SF doors!

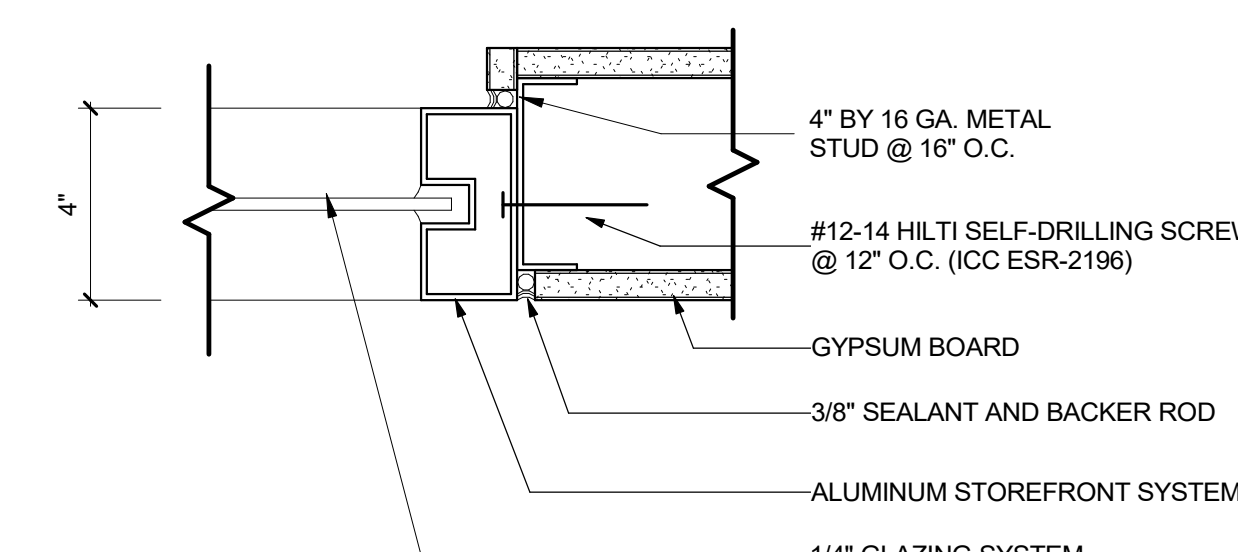
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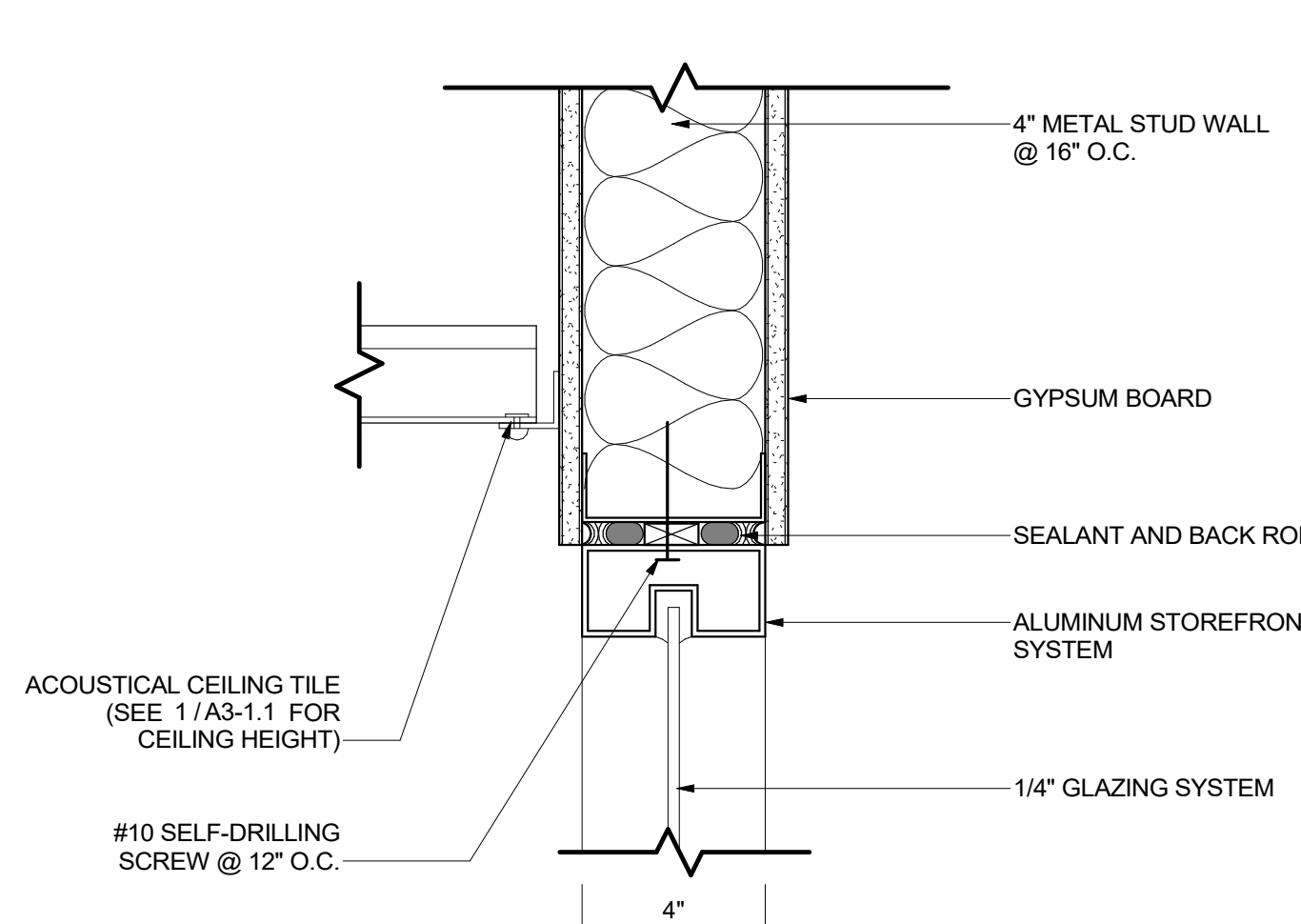
STOREFRONT JAMB AT CORNER	4
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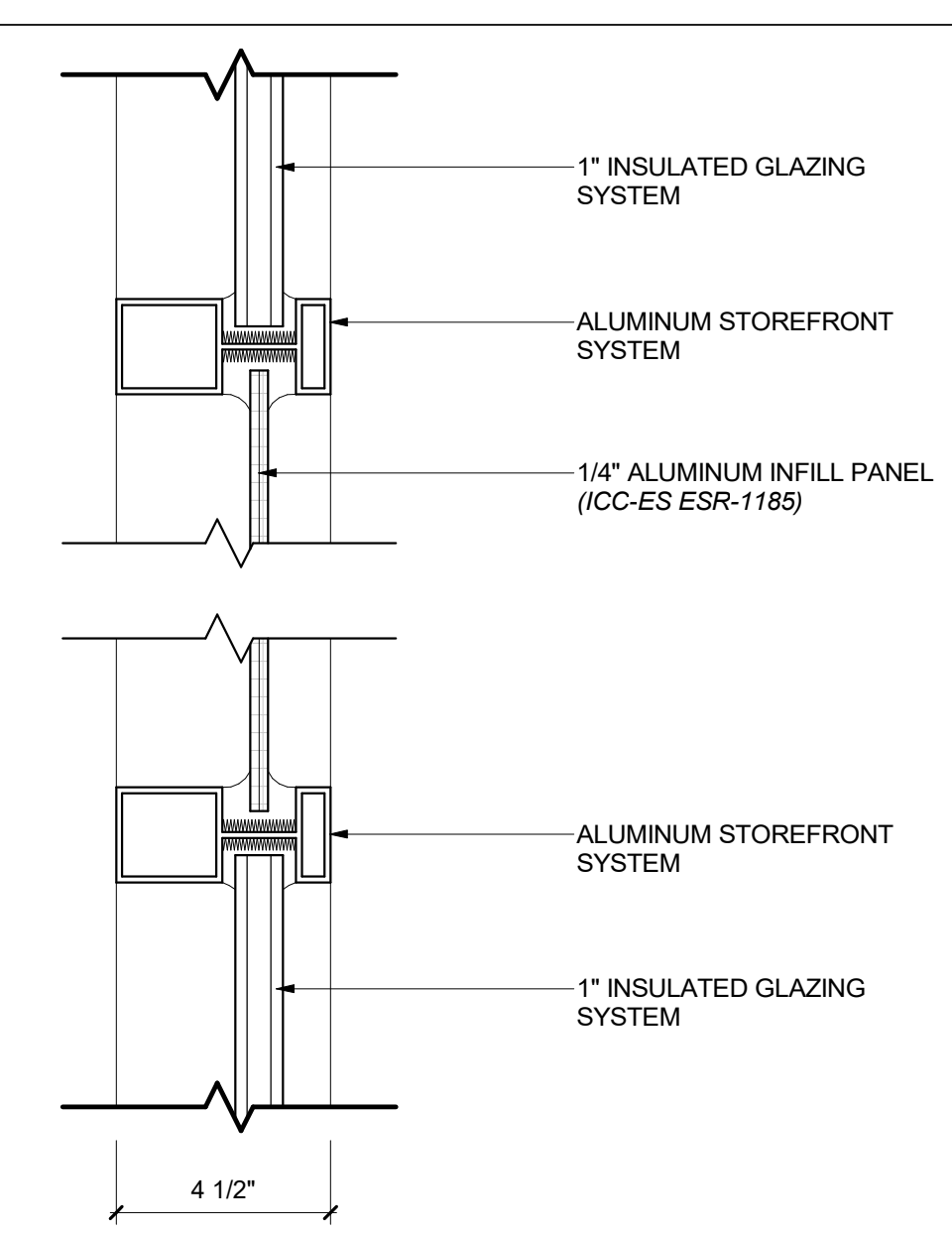
STOREFRONT SILL	3
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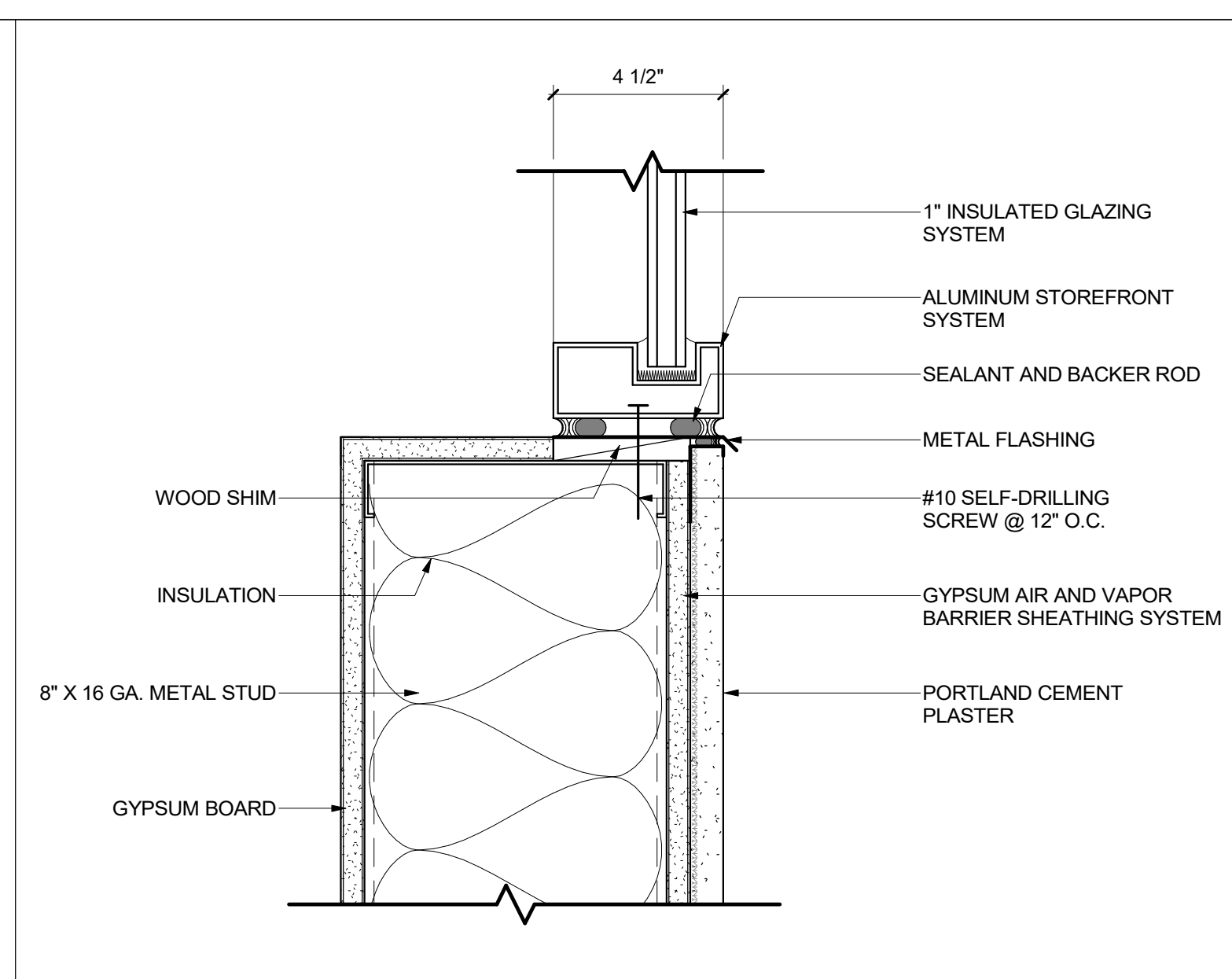
STOREFRONT JAMB AT GYP	2
	3" = 1'



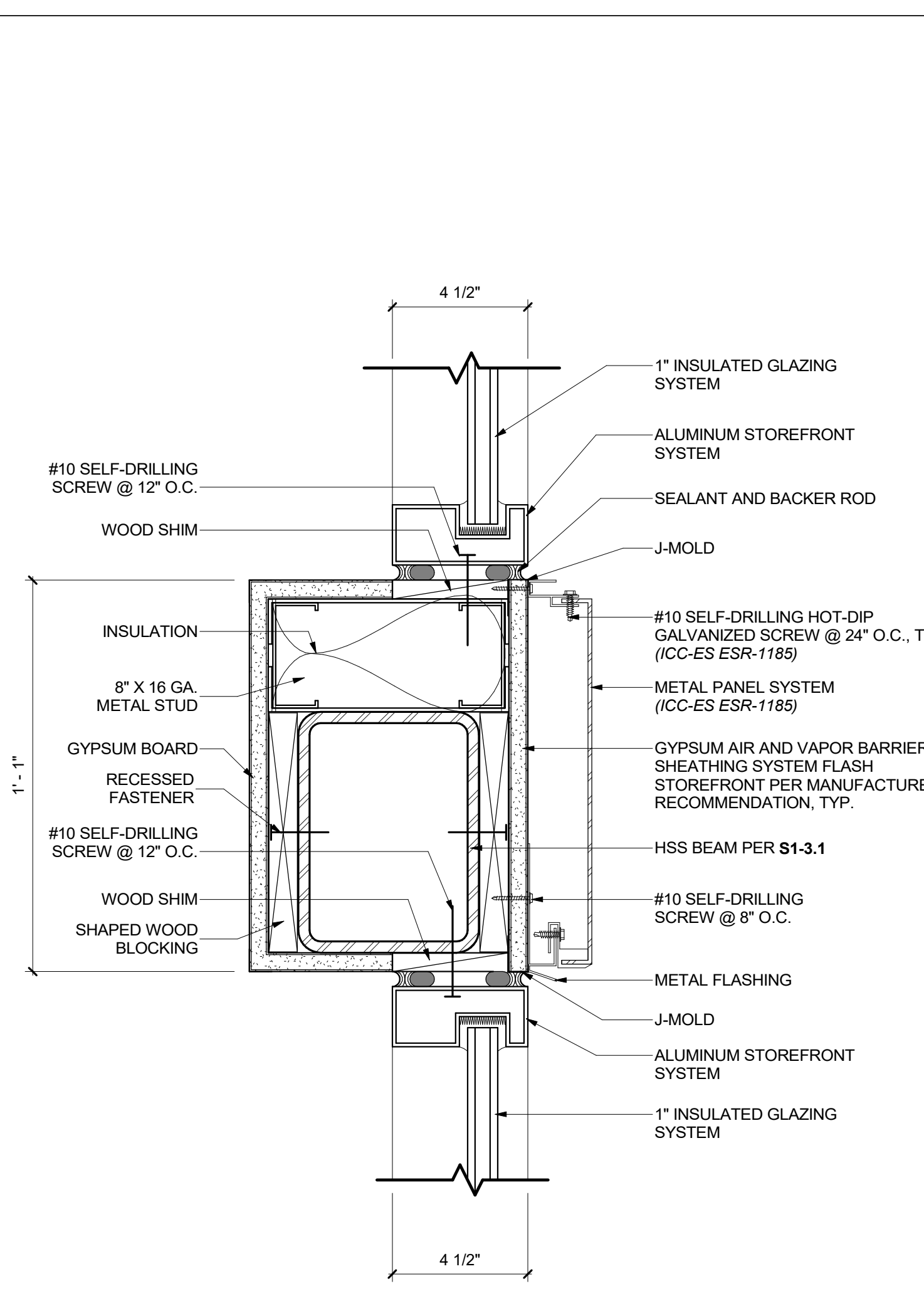
STOREFRONT HEAD AT GYP	1
	3" = 1'



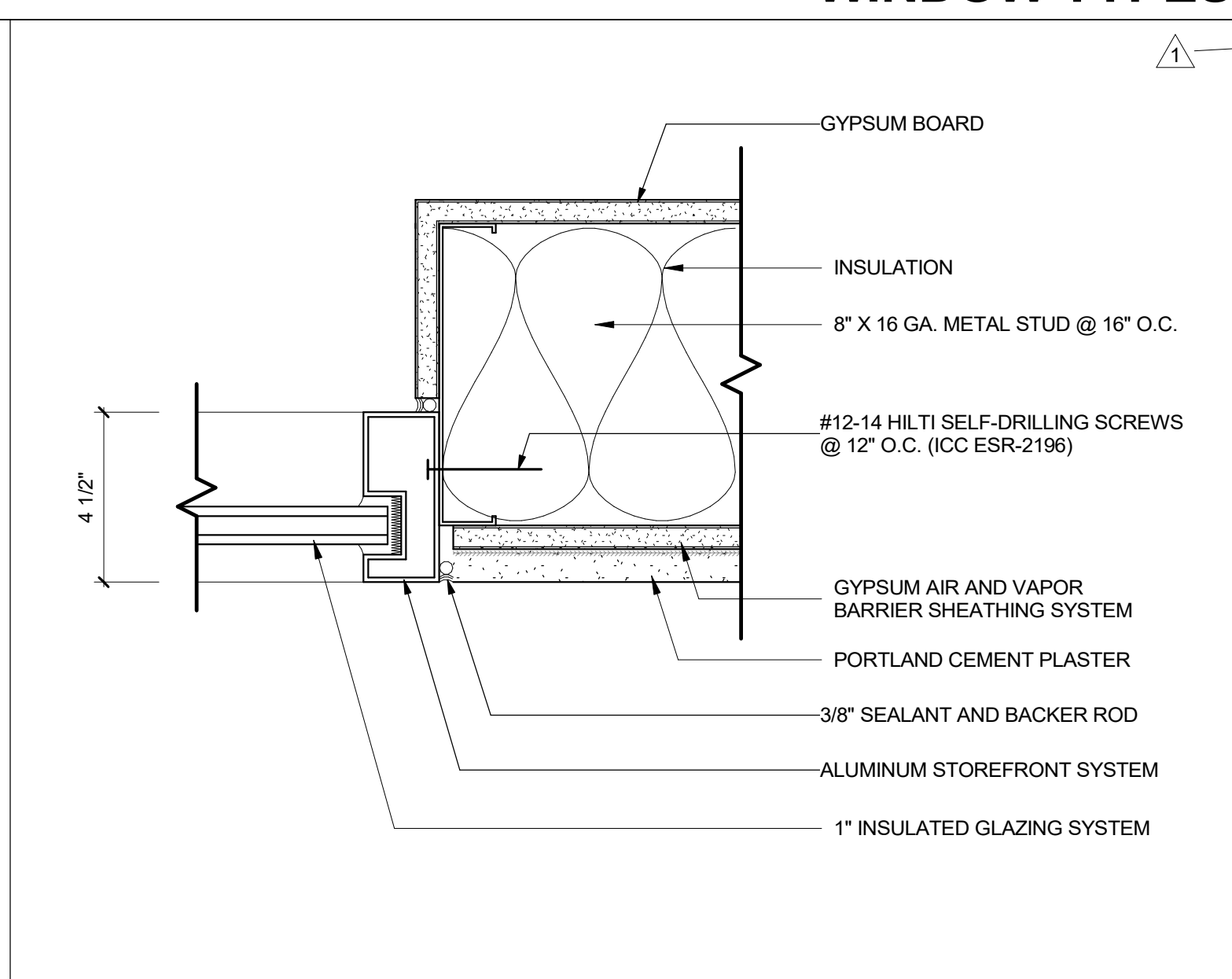
STOREFRONT HEAD AT METAL INFILL	11
	3" = 1'-0"



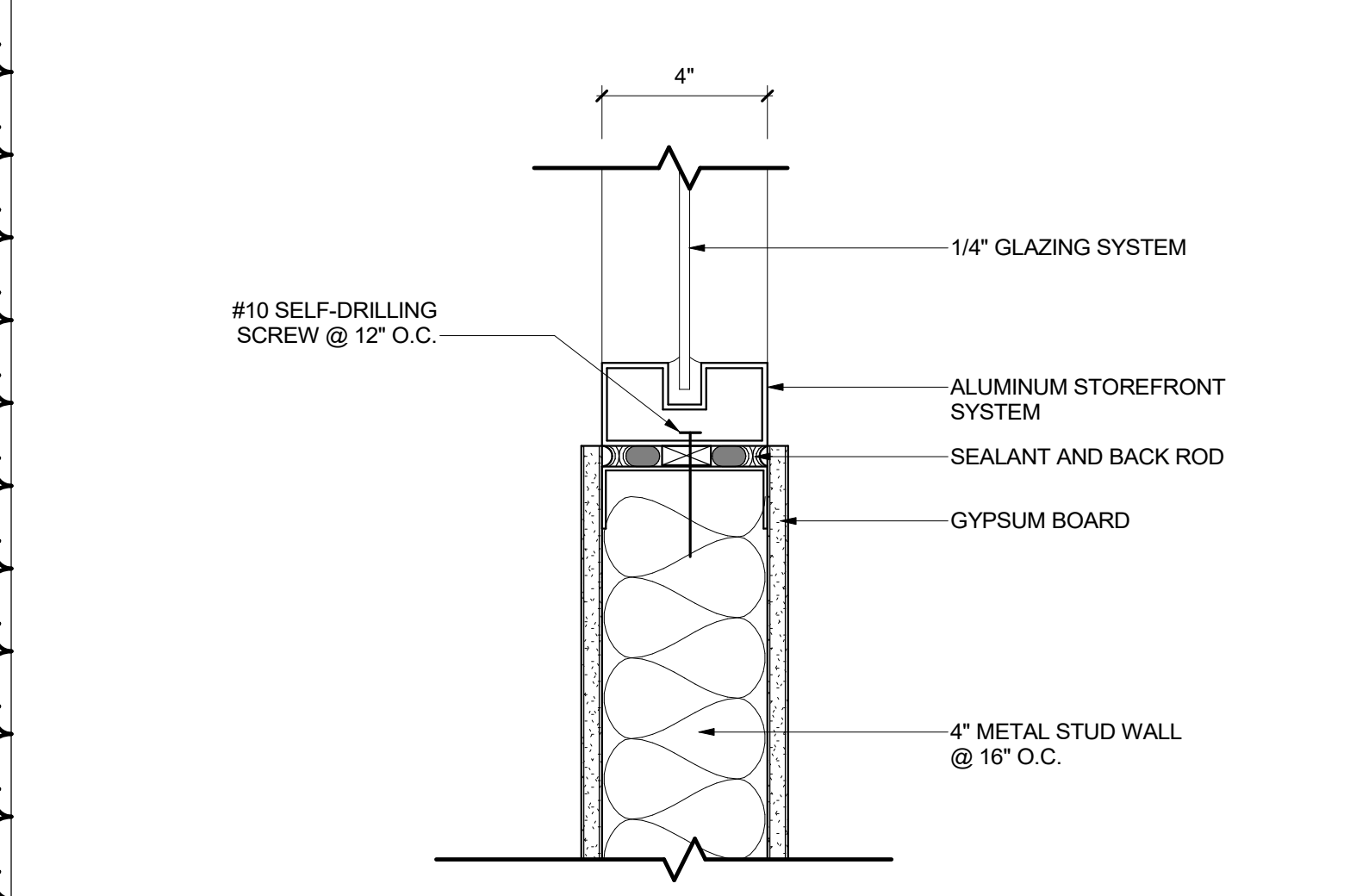
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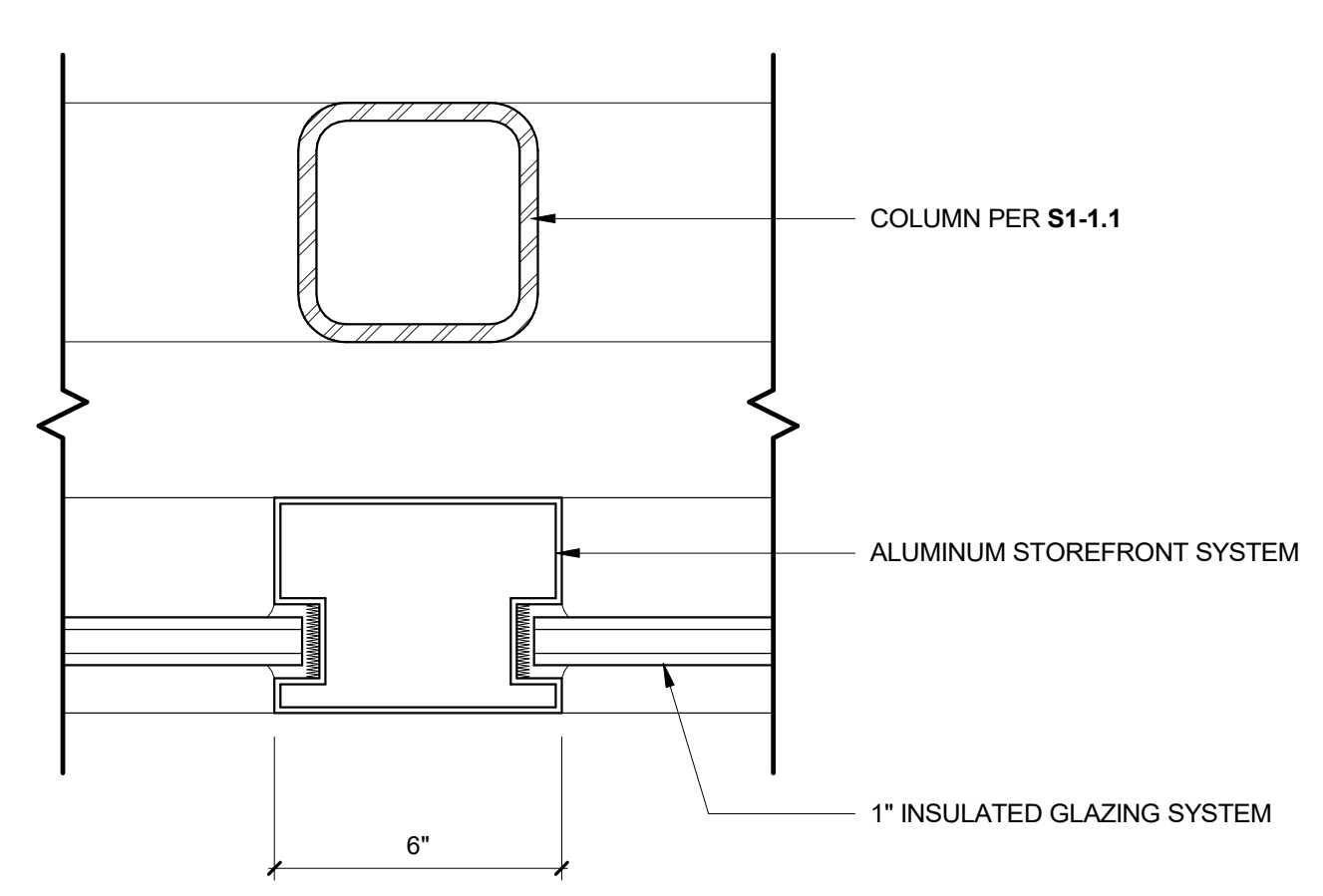
STOREFRONT AT LOBBY METAL PANEL



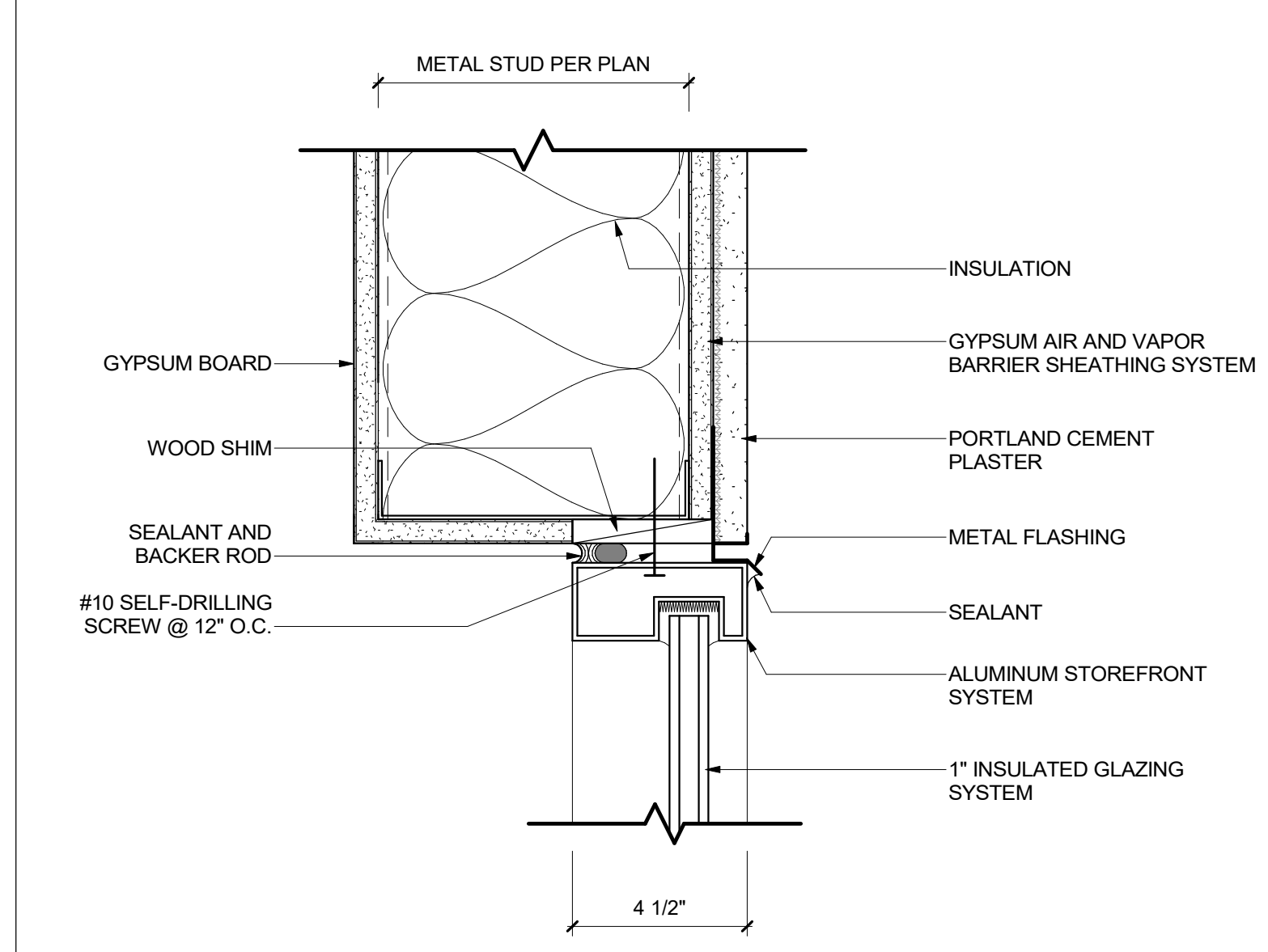
STOREFRONT JAMB AT PLASTER	6
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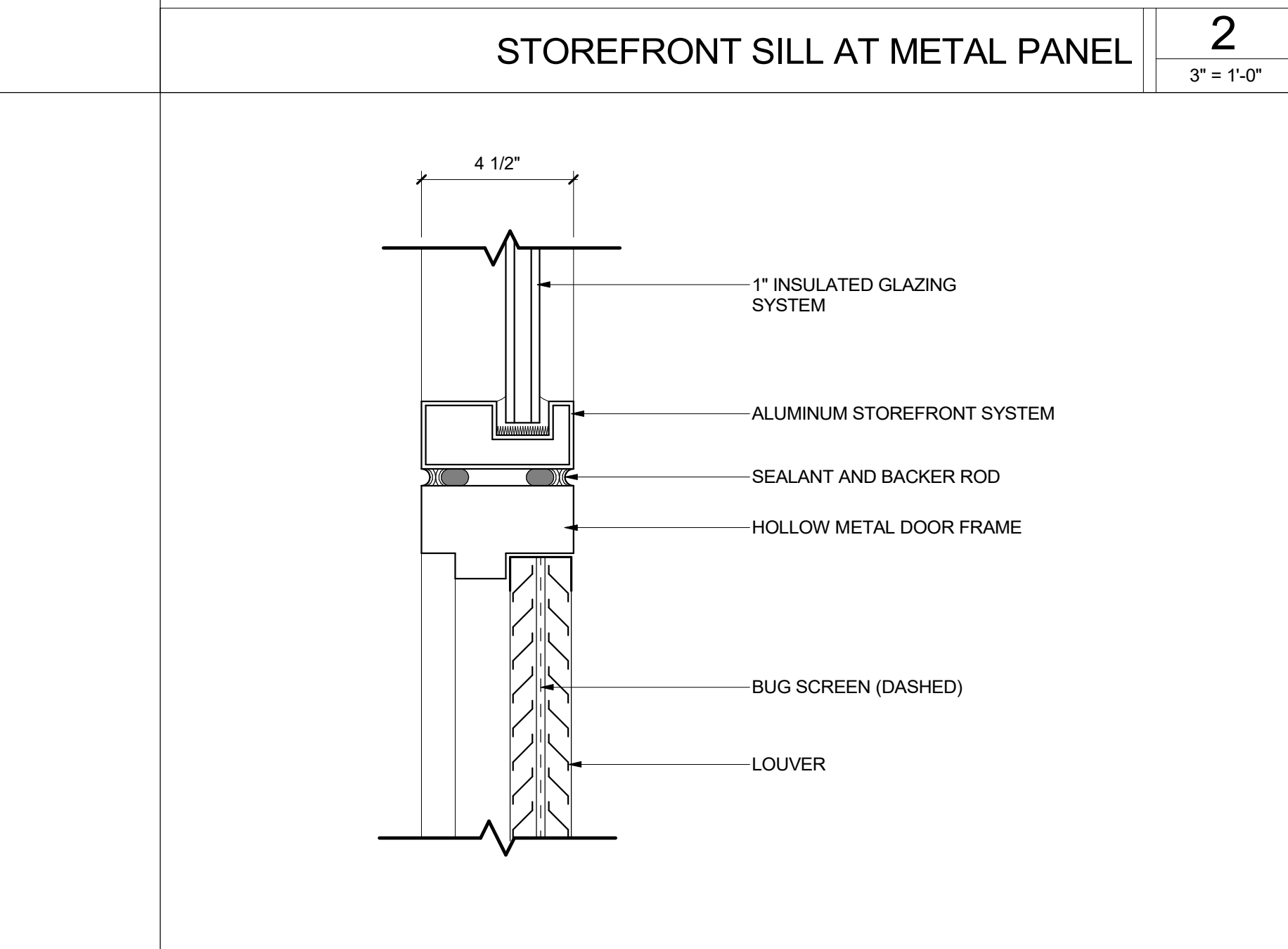
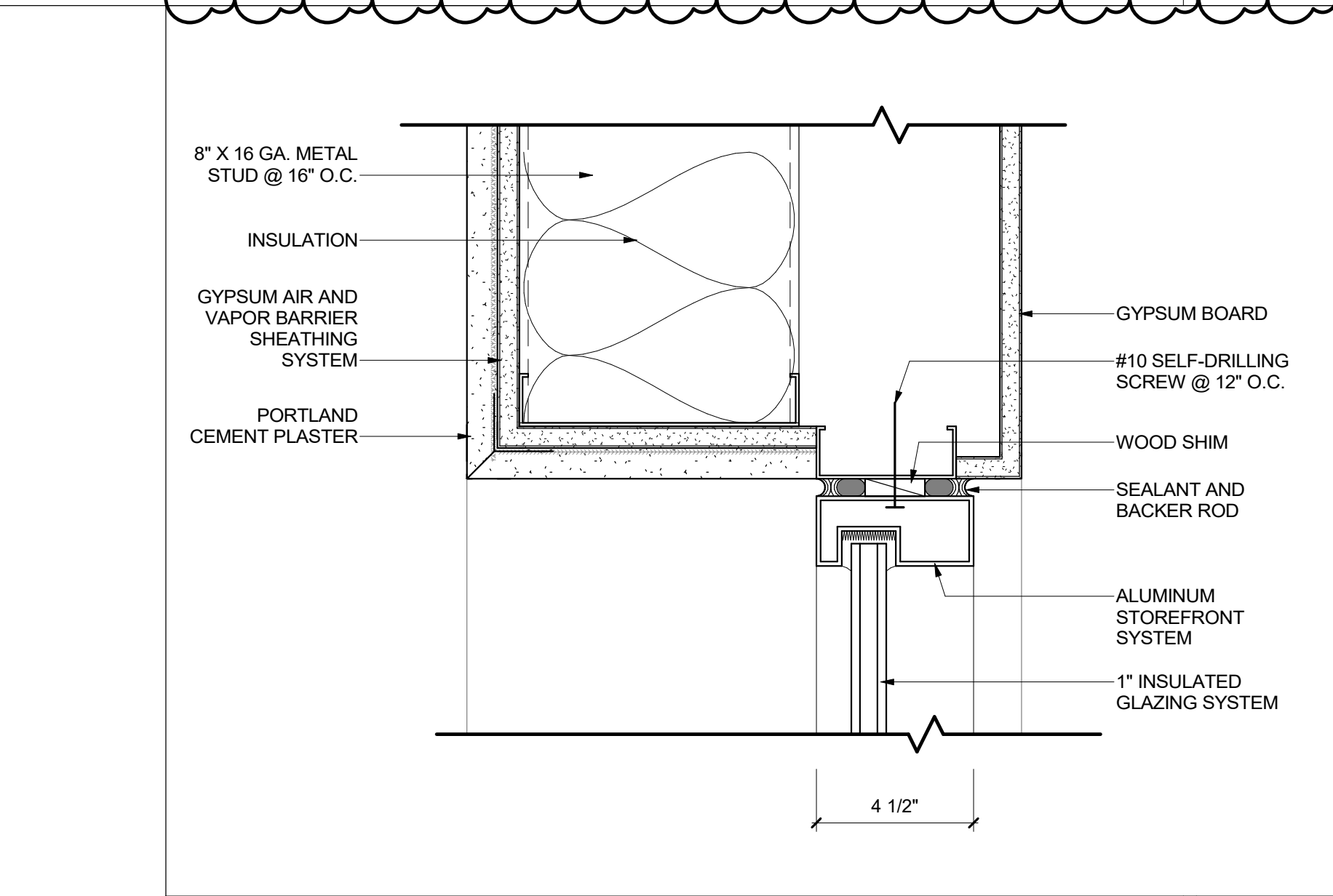
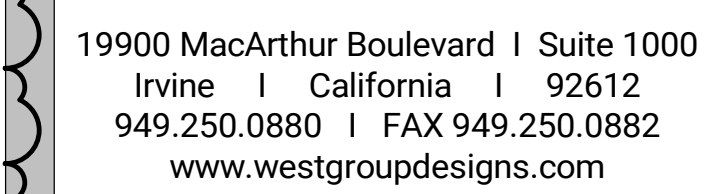
STOREFRONT SILL AT GYP	5
	3' = 1'-0"



STOREFRONT JAMB AT COLUMN	10
	3" = 1'-0"



STOREFRONT HEAD AT PLASTER	8
	3" = 1'-0"



**FILLMORE HIGH
SCHOOL ATHLETIC
COMPLEX**

**FILLMORE
UNIFIED SCHOOL
DISTRICT**


555 Central Ave. Fillmore, CA
93015

ISSUED FOR:	
OSA Submittal	01/31/2024

REVISIONS:	
1	BID ADDENDUM 1 01/28/25

[illegible][illegible]

REGISTRATION/SIGNATURE:



The seal of the State of California is visible in the top right corner of the document. It features the word "EUREKA" at the top, "STATE OF CALIFORNIA" around the perimeter, and "1849" at the bottom. In the center, there is a shield with a grizzly bear and the word "EUREKA" below it. The seal is partially obscured by the document's text.



SHEET TITLE:

WINDOW DETAIL 2

WINDOW DETAILS

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SHEET NUMBER: _____

A6-2 2

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WD PROJ. #	DRAWN BY:	CHECKED	DATE
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22851	Author	Checker	01/30/24
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SECTION 08 41 13
ALUMINUM-FRAMED INTERIOR MULLION SYSTEM

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Interior Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of units.
- B. Related Sections:
 - 1. 08 43 13 - Aluminum-Framed Storefronts
 - 2. 08 80 00 - Glazing

1.02 DEFINITIONS

- A. Definitions: For fenestration industry standard terminology and definitions refer to American Architectural Manufacturers Association (AAMA) – AAMA Glossary (AAMA AG).

1.03 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions.
- B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to other work, operational clearances and installation details.
- C. Samples for Verification: For aluminum-framed storefront system and components required.
- D. Fabrication Sample: Of each vertical-to-horizontal intersection of aluminum-framed systems, made from 12" (304.8 mm) lengths of full-size components and showing details of the following:
 - 1. Joinery, including concealed welds.
- E. Other Action Submittals:
 - 1. Entrance Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.
- B. Manufacturer Qualifications: A manufacturer capable of providing aluminum-framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.
- C. Source Limitations: Obtain aluminum-framed storefront system through one source from a single manufacturer.
- D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum-framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.
- E. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
- F. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Section 01 30 00 - Administrative Requirements.

1.05 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of aluminum-framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

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1.06 WARRANTY

- A. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.
 - 1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis-of-Design Product:
 - 1. Kawneer Company Inc.
 - 2. Trifab® 400 Framing System (Non-Thermal)
 - 3. System Dimensions: 1-3/4" x 4" (44.5 mm x 101.6 mm)
 - 4. Glass: 1/4" Center Plane
- B. Substitutions: Refer to 01 63 00 - Product Substitution Procedures Substitutions for procedures and submission requirements.

2.02 MATERIALS

- A. Aluminum Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" (1.8 mm) wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.
- B. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum framing members, trim hardware, anchors, and other components.
- C. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.
- D. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.
- E. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront members are nominal and in compliance with AA Aluminum Standards and Data.

2.03 STOREFRONT FRAMING SYSTEM

- A. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
- B. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.
- C. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action
- D. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- E. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

2.04 GLAZING SYSTEMS

- A. Glazing: As specified in 08 80 00 - Glazing.
- B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.

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- C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.
- D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

2.05 ENTRANCE DOOR SYSTEMS

- A. Entrance Doors: As specified in Division 08 43 13 - Aluminum-Framed Storefronts.
- B. Entrance Door Hardware: As specified in Division 08 71 00 - Door Hardware.

2.06 ACCESSORY MATERIALS

- A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in 07 92 00 - Joint Sealants and Caulking.
- B. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30 mil (0.762 mm) thickness per coat.

2.07 FABRICATION

- A. Extrude aluminum shapes before finishing.
- B. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:
 - 1. Profiles that are sharp, straight, and free of defects or deformations.
 - 2. Accurately fit joints; make joints flush, hairline and weatherproof.
 - 3. Physical and thermal isolation of glazing from framing members.
 - 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 - 5. Provisions for field replacement of glazing.
 - 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- C. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
- D. Storefront Framing: Fabricate components for assembly using manufacturer's standard installation instructions.
- E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.08 ALUMINUM FINISHES

- A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. Factory Finishing:
 - 1. Kawneer Permanodic® AA-M10C21A31, AAMA 611, Architectural Class II Clear Anodic Coating (Color #17 Clear).

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum-framed storefront system, accessories, and other components.

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- B. Install aluminum-framed storefront system level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall and other adjacent construction.
- C. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.03 FIELD QUALITY CONTROL**3.04 ADJUSTING, CLEANING, AND PROTECTION**

- A. Clean aluminum surfaces immediately after installing aluminum-framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
- B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.
- C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

WD 22851	FILLMORE UNIFIED SCHOOL DISTRICT	12/12/2023
	FILLMORE HIGH SCHOOL ATHLETIC COMPLEX	

**SECTION 08 80 00
GLAZING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Glass and glazing for doors and framed openings.

1.02 RELATED SECTIONS

- A. Section 07 92 00 - Joint Sealants and Caulking.
- B. Section 08 41 13 - Aluminum-Framed Interior Mullion System
- C. Section 08 43 13 - Aluminum-Framed Storefront

1.03 REFERENCES

- A. AAMA 605.2 American Architectural Manufacturers Association; Voluntary Specification for High Performance Organic Coatings.
- B. ANSI Z97.1 - Safety Performance Specifications and Methods of Test for Safety Glazing Used in Buildings.
- C. ASTM C669 - Glazing Compounds for Back Bedding and Face Glazing of Metal Sash.
- D. ASTM C1193 - Use of Joint Sealants.
- E. ASTM C864 - Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.
- F. ASTM C920 - Elastomeric Joint Sealants.
- G. ASTM C1036 - Standard Specification for Flat Glass.
- H. ASTM C1048 - Standard Specification for Heat-Treated Flat Glass.
- I. ASTM E84 - Surface Burning Characteristics of Building Materials.
- J. ASTM E283 - Test Method For Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors.
- K. ASTM E330 - Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
- L. CPSC 16 CFR 1201- Consumer Products Safety Commission Safety Standards for Architectural Glazing Materials.
- M. FGMA - Flat Glass Marketing Association Glazing Manual.
- N. N. FGMA - Flat Glass Marketing Association Sealant Manual.
- O. T24, CCR - Title 24, California Code of Regulations, Chapter 24.

1.04 PERFORMANCE REQUIREMENTS

- A. Provide glass and glazing materials for continuity of building enclosure vapor retarder and air barrier throughout the glazed assembly from glass pane to heel bead of glazing sealant.
- B. Limit glass deflection to 1/200 or flexure limit of glass with full recovery of glazing materials, whichever is less, when tested in accordance with ASTM E330.

1.05 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Product Data on Glass Types: Provide structural, physical and environmental characteristics, size limitations, and special handling or installation requirements.
- C. Product Data on Accessories: Submit manufacturers descriptive information and installation instructions for all glazing accessories required for installation according to this section and other sections referencing this section.

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- D. Product Data on Glazing Compounds: Provide chemical, functional, and environmental characteristics, limitations, and special application requirements.
- E. Product Data on Opaque Glazing Panels: Submit manufacturers descriptive literature and installation instructions; indicate thickness and dimensions of parts, and fastening and anchoring methods.
- F. Samples: Submit three samples 4 x 4 inch in size, for each type of glass or glazing panel. Grind and radius edges. Identify each unit with an indelibly marked label.
- G. Color Samples for Opaque Glazing Panels: Submit two color selectors with full range of colors available; Samples shall be of specified material, and not a reproduction.
- H. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with FGMA Glazing Manual, FGMA Sealant Manual
- B. Conform to T24, CCR.
- C. Label each piece of glazing material with manufacturers name and grade or quality of material. Labels shall be intact before and after installation.

1.07 QUALIFICATIONS

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified with minimum five years documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.

1.08 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver glass, opaque panels, and glazing materials with manufacturers labels intact.
- B. Protect glass and opaque panels from discoloration, marking, or damage.

1.09 ENVIRONMENTAL REQUIREMENTS

- A. Do not install glazing when ambient temperature is less than 50 degrees F.
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.
- C. Perform glazing on clean, dry surfaces only.

1.10 WARRANTY

- A. Provide five (5) year Contractor's warranty under provisions of Section 01 70 00 for integrity of glazing system. Warranty to include all failures of system to prevent infiltration of air or water in excess of specified allowances.

PART 2 PRODUCTS

2.01 MANUFACTURERS:

- A. Viracon - Basis of Design
- B. Vitro / PPG
- C. Pilkington / Libbey Owens Ford
- D. Substitutions: Refer to Section 01 63 00 - Product Substitution Procedures.

2.02 EXTERIOR INSULATED VISION GLAZING

- A. 1" VRE35-4322/clear Insulating HS/HS
 - 1. Outer Lite: 1/4" Pure Mid Iron with VRE35-43 on #2 surface
 - 2. Space: 1/2" airspace - aluminum, black painted, air filled
 - 3. Interior Lite: 1/4" Clear HS
- B. Performance Requirements

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1. Visible Light Transmittance: 44%
2. Solar Energy Transmittance: 18%
3. Ultra-Violet Transmittance: 8%
4. Exterior - Visible Light Reflectance: 26%
5. Interior - Visible Light Reflectance: 19%
6. Solar Energy Reflectance: 48%
7. Winter U-Value: 0.29
8. Summer U-Value: 0.26
9. Shading Coefficient: 0.25
10. Solar Heat Gain Coefficient: 0.22
11. Relative Heat Gain: 54 Btu/hr x sqft

2.03 MONOLITHIC INTERIOR VISION GLAZING

- A. Glass Type: 1/4" Clear Heat Strengthened unless otherwise required to be Fully Tempered

2.04 GLAZING ACCESSORIES

- A. Setting Blocks: ASTM C864, Option I; Neoprene 80 to 90 Shore A durometer hardness, length of 0.1 inch for each square foot of glazing or minimum 4 inch x width of glazing rabbet space minus 1/16 inch x height to suit glazing method and pane weight and area.
- B. Spacer Shims: ASTM C864, Option I; Neoprene 50 to 60 Shore A durometer hardness, minimum 3 inch long x one half the height of the glazing stop x thickness to suit application.
- C. Glazing Tape: Preformed butyl compound with integral resilient tube spacing device; 10 to 15 Shore A durometer hardness; coiled on release paper; black color.
- D. Glazing Gaskets: ASTM C864 Option I, Resilient polyvinyl chloride extruded shape to suit glazing channel retaining slot; color as selected by Architect.
- E. Glazing Clips: Manufacturer's standard type.

2.05 SOURCE QUALITY CONTROL AND TESTS

- A. Provide testing and analysis of glass to Section 01 40 00.
- B. Test samples for compliance with ANSI Z97.1.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify items to be glazed under provisions of Section 01 03 90.
- B. Verify that openings for glazing are correctly sized and within tolerance.
- C. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and ready to receive glazing.

3.02 PREPARATION

- A. Clean contact surfaces with solvent and wipe dry.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant.

3.03 ACCESSIBILITY

- A. Where glazed openings are provided in accessible rooms or spaces for operation by occupants, at least one shall comply with CBC Section 11B-309.

3.04 INSTALLATION - EXTERIOR WET/DRY METHOD (PREFORMED TAPE AND SEALANT)

- A. Cut glazing tape to length and set against permanent stops, 3/16 inch below sight line. Seal corners by butting tape and dabbing with butyl sealant.
- B. Apply heel bead of butyl sealant along intersection of permanent stop with frame ensuring full perimeter seal between glass and frame to complete the continuity of the air and vapor seal.

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- C. Place setting blocks at 1/4 points with edge block no more than 6 inches from corners.
- D. Rest glazing on setting blocks and push against tape and heel bead of sealant with sufficient pressure to attain full contact at perimeter of pane or glass unit.
- E. Install removable stops, with spacer strips inserted between glazing and applied stops, 1/4 below sight line. Place glazing tape on glazing pane with tape flush with sight line.
- F. Fill gap between glazing and stop with butyl sealant to depth equal to bite of frame on glazing, but not more than 3/8 inch below sight line.
- G. Apply cap bead of butyl sealant along void between the stop and the glazing, to uniform line, flush with sight line. Tool or wipe sealant surface smooth.

3.05 INSTALLATION - INTERIOR WET/DRY METHOD (TAPE AND SEALANT)

- A. Cut glazing tape to length and install against permanent stops, projecting 1/16 inch above sight line.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inches from corners.
- C. Rest glazing on setting blocks and push against tape to ensure full contact at perimeter of pane.
- D. Install removable stops, spacer shims inserted between glazing and applied stops at 24 inch intervals, 1/4 inch below sight line.
- E. Fill gaps between pane and applied stop with butyl sealant to depth equal to bite on glazing, to uniform and level line.
- F. Trim protruding tape edge.

3.06 INSTALLATION - BUTT GLAZED METHOD

- A. Temporarily brace glass in position for duration of glazing process. Mask edges of glass at adjoining glass edges between glass edges and framing members.
- B. Temporarily secure a small diameter non-adhering foam rod on back side of joint.
- C. Apply silicone sealant to the open side of joint in continuous operation; thoroughly fill the joint without displacing the foam rod. Tool the sealant surface smooth to concave profile.
- D. Permit sealant to cure then remove foam backer rod. Apply sealant to opposite side, tool smooth to concave profile.
- E. Remove masking tape.

3.07 INSTALLATION - GENERAL

- A. Double Strength Glass shall meet the following schedule of thicknesses:
 - 1. Maximum Areas in Square Feet for Thickness of Glass:
 - a. Up to 12 sq ft for 1/8 inch glass.
 - b. Up to 16 sq ft for 3/16 inch glass.
 - c. Up to 20 sq ft for 1/4 inch glass.
- B. Glazed cabinet doors shall be glazed with "Clear Sheet Glass," unless otherwise noted or indicated.
- C. Install safety-rated glass (tempered glass, tinted tempered glass, obscure tempered glass, or fire-rated glass) in all door lights and window openings.
- D. Obscure glass in exterior openings shall be placed with smooth side of glass to weather. Patterned glass shall have pattern running vertically, unless directed otherwise.
- E. Speak holes shall be cut according to glass manufacturer's recommendations, and as approved by the Architect.
- F. Install opaque glazing panels where indicated in plans, on door and window schedules, or on door and window types.

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3.08 CLEANING

- A. Perform cleaning immediately after completion of glazing, and final cleaning in accordance with Section 01700.
- B. Remove glazing materials from finish surfaces.
- C. Remove labels after Work is complete.
- D. Clean glass, opaque panels, and adjacent surfaces.

3.09 PROTECTION OF FINISHED WORK

- A. Protect work in accordance with Section 01 70 00
- B. After installation, mark translucent panes with an 'X' by using removable plastic tape or paste. Do not mark heat absorbing or reflective glass units.
- C. Glazing damaged or broken prior to final acceptance shall be replaced at no additional expense to Owner.

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