

5/18/2021

CERTIFICATE OF APPROPRIATENESS

Ross Hoekstra
McIntosh Poris Associates
36801 Woodward Avenue, Suite 200
Birmingham, MI 48220

RE: Application Number 21-7214, 21-7248, 21-7249; 1468, 1480, 1496 Randolph Street, Madison – Harmonie Historic District

Dear Mr. Hoekstra,

At the regularly scheduled meeting held virtually on May 12, 2021, the Detroit Historic District Commission (“Commission”) reviewed the above-referenced application for building permit. Pursuant to Section 5(10) of the Michigan Local Historic District Act, as amended, being MCL 399.205, MSA 5-3407(5)(10) and Section 21-2-73 of the 2019 Detroit City Code; the Commission has reviewed the above-referenced application for building permit and hereby issues a Certificate of Appropriateness, which is effective as of May 18, 2021.

The following proposed work meets the defined elements of design for the historic district and the Secretary of the Interior’s Standards for Rehabilitation and guidelines for rehabilitating historic buildings (36 CFR Part 67).

• **New Construction**

Construct a new 8-story, mixed-use building spanning the width of the three lots located at 1468, 1480, and 1496 Randolph with 2,700 square feet of ground floor retail, 3 levels of parking (127 spaces), and 5 upper floors of residential units (89 units total) and described by the applicant as such:

Hastings Place is a proposed mixed-use multifamily building in the Madison-Harmonie Historic District that will fill in an existing gap facing Harmonie Park – completing the street edge along Randolph St., enhancing the pedestrian oriented urban fabric and adding new residents to the neighborhood. The development will provide space for new residents, businesses, and visitors in the heart of Paradise Valley. Housing, parking, and retail contained in the program support continuing investment in the cultural and creative assets already in the community.

The ground floor street frontage maximizes pedestrian oriented space – 80% of the frontage contains the residential lobby and retail space. This frontage is a continuous storefront, maximizing transparency for flexibility, visibility, and safety. A parking entrance off Randolph has also been provided for parking spaces that are hidden behind the retail storefront at grade.

Above this ground floor are two additional floors of parking for residents of the building and visitors and workers in the district. The garage is disguised from view by using openings which match the size of the windows above. The final 5 floors of the building are residential units with the majority being studios and 1 bedrooms, ranging from 420 sf to 1020 sf. At the fourth floor, a large outdoor terrace is planned for use by all residential tenants.

The exterior massing steps back at the upper floors as a gesture to the adjacent buildings along Randolph, making the overall proposed height seem smaller than it is, as well as providing space for private balconies for the units. The façade also switches materials as it goes up, breaking the overall massing into parts which are closer in size to the adjacent buildings and fit in with the context of Harmonie Park.

- Building materials and products include:
 - Glass Fiber Reinforced Concrete (GFRC) wall panels applied vertically
 - **Color:** Chrome (dark gray)
 - **Location:** Main massing of levels 4 – 6; retail storefront and parking entrance door surrounds at ground floor

- **Color:** Ivory
Location: Main massing of levels 6 – 8

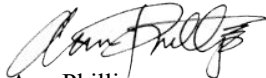
 - **Color:** Larch (light brown/tan)
Location: Residential unit balcony alcoves at levels 4 – 8
 - Modular commercial brick veneer at the main massing of levels 1 – 5 (color: Black Opal)
 - Concrete masonry units (CMU)
 - **Finish/Color:** Unpainted
Location: Main massing of levels 1 – 3 on north (side) facade; levels 1 – 4 on south (side) façade

 - **Finish/Color:** Painted/Iron Ore
Location: Main massing of levels 4 – 6 on north (side) facade; levels 5 – 6 on south (side) façade

 - **Finish/Color:** Painted/Gossamer Veil
Location: Main massing of levels 4 – 6 on north (side) facade; levels 5 – 6 on south (side) façade
 - Metal coping at parapet
 - Dark gray aluminum canopy at ground floor retail
 - All retail storefront systems and doors proposed to be black aluminum
 - Garage doors to be glazed, roll-up style doors located at the west (front) and east (rear) facades
 - All windows and exterior doors at the residential units (levels 4 – 8) are to be uPVC – color: black. Operation of windows include fixed, awning, and casement. Sizes of windows vary – see attached elevation drawings for more details.
 - Railings at residential balconies (levels 4 – 8) are to be constructed of galvanized steel (color: black)
 - The treatment of openings at the parking locations (levels 1 – 3) vary. At the ground floor of the east (rear) façade, the openings are the parking are infilled with brick to match the adjacent but the finished face of the brick at the openings will be slightly recessed from the main massing. All openings at the parking on levels 2 – 3 are to remain completely open.
- **Sitework**
 - Five (5) new Pyramidal European Hornbeam street trees along Randolph Street – see locations on attached site plan
 - Replace five (5) existing streetlights with new streetlights to match existing in design and location

Please retain this COA for your files. You should now proceed to obtain a building permit from the City of Detroit Buildings, Safety, Engineering and Environmental Department. It is important to note that approval by the Detroit Historic District Commission does not waive the applicant's responsibility to comply with any other applicable ordinances or statutes.

For the Commission:



Ann Phillips
Staff

Detroit Historic District Commission

THIS IS A 3-PAGE FORM - ALL INFORMATION IS REQUIRED FOR PROJECT REVIEW

HISTORIC DISTRICT COMMISSION PROJECT REVIEW REQUEST

City of Detroit - Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, Michigan 48226

Date: _____

PROPERTY INFORMATION

ADDRESS: _____ AKA: _____

HISTORIC DISTRICT: _____

SCOPE OF WORK: (Check ALL that apply)

<input type="checkbox"/> Windows/ Doors	<input type="checkbox"/> Roof/Gutters/ Chimney	<input type="checkbox"/> Porch/ Deck	<input type="checkbox"/> Landscape/Fence/ Tree/Park	<input type="checkbox"/> General Rehab
<input type="checkbox"/> New Construction	<input type="checkbox"/> Demolition	<input type="checkbox"/> Addition	<input type="checkbox"/> Other: _____	

APPLICANT IDENTIFICATION

Property Owner/
Homeowner

Contractor

Tenant or
Business Occupant

Architect/Engineer/
Consultant

NAME: _____ COMPANY NAME: _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ MOBILE: _____ EMAIL: _____

PROJECT REVIEW REQUEST CHECKLIST

Please attach the following documentation to your request:

PLEASE KEEP FILE SIZE OF ENTIRE SUBMISSION UNDER 30MB

- Completed Building Permit Application** (highlighted portions only)
- ePLANS Permit Number** (only applicable if you've already applied for permits through ePLANS)
- Photographs** of ALL sides of existing building or site
- Detailed photographs** of location of proposed work (photographs to show existing condition(s), design, color, & material)
- Description of existing conditions** (including materials and design)
- Description of project** (if replacing any existing material(s), include an explanation as to why replacement--rather than repair--of existing and/or construction of new is required)
- Detailed scope of work** (formatted as bulleted list)
- Brochure/cut sheets** for proposed replacement material(s) and/or product(s), as applicable

NOTE:

Based on the scope of work, additional documentation may be required.

See www.detroitmi.gov/hdc for scope-specific requirements.

Upon receipt of this documentation, staff will review and inform you of the next steps toward obtaining your building permit from the Buildings, Safety Engineering and Environmental Department (BSEED) to perform the work.

SUBMIT COMPLETED REQUESTS TO HDC@DETROITMI.GOV

P2 - BUILDING PERMIT APPLICATION

Date: _____

PROPERTY INFORMATION

Address: _____ Floor: _____ Suite#: _____ Stories: _____

AKA: _____ Lot(s): _____ Subdivision: _____

Parcel ID#(s): _____ Total Acres: _____ Lot Width: _____ Lot Depth: _____

Current Legal Use of Property: _____ Proposed Use: _____

Are there any existing buildings or structures on this parcel? Yes No

PROJECT INFORMATION

Permit Type: New Alteration Addition Demolition Correct Violations

Foundation Only Change of Use Temporary Use Other: _____

Revision to Original Permit #: _____ (Original permit has been issued and is active)

Description of Work (Describe in detail proposed work and use of property, attach work list)

MBC use change No MBC use change

Included Improvements (Check all applicable; these trade areas require separate permit applications)

HVAC/Mechanical Electrical Plumbing Fire Sprinkler System Fire Alarm

Structure Type

New Building Existing Structure Tenant Space Garage/Accessory Building

Other: _____ Size of Structure to be Demolished (LxWxH) _____ cubic ft.

Construction involves changes to the floor plan? Yes No

(e.g. interior demolition or construction to new walls)

Use Group: _____ Type of Construction (per current MI Bldg Code Table 601) _____

Estimated Cost of Construction \$ _____ By Contractor \$ _____ By Department

Structure Use

Residential-Number of Units: _____ Office-Gross Floor Area _____ Industrial-Gross Floor Area _____

Commercial-Gross Floor Area: _____ Institutional-Gross Floor Area _____ Other-Gross Floor Area _____

Proposed No. of Employees: _____ List materials to be stored in the building: _____

PLOT PLAN SHALL BE submitted on separate sheets and shall show all easements and measurements (must be correct and in detail). SHOW ALL streets abutting lot, indicate front of lot, show all buildings, existing and proposed distances to lot lines. (Building Permit Application Continues on Next Page)

For Building Department Use Only

Intake By: _____ Date: _____ Fees Due: _____ DngBld? No

Permit Description: _____

Permit #: _____ Current Legal Land Use: _____ Proposed Use: _____

Permit#: _____ Date Permit Issued: _____ Permit Cost: \$ _____

Zoning District: _____ Zoning Grant(s): _____

Lots Combined? Yes No (attach zoning clearance)

Revised Cost (revised permit applications only) Old \$ _____ New \$ _____

Structural: _____ Date: _____ Notes: _____

Zoning: _____ Date: _____ Notes: _____

Other: _____ Date: _____ Notes: _____



HASTINGS PLACE



PROJECT ADDRESS:
1468/1480/1496 Randolph St
Detroit, MI 48226

PROJECT TEAM:
Owner / Developer:
Hastings Place, LLC.
1452 Randolph Street
Suite #400
Detroit, MI 48226

Architect:
McIntosh Poris Associates
36801 Woodward Avenue, Suite 200
Birmingham, MI 48009

INDEX

Zoning + Code
Historic District + Context
Building + Context
Site
Floor Plans
Elevations
Renderings
Materials
Spec Sheets

PROJECT NARRATIVE

Hastings Place is a proposed mixed-use multifamily building in the Madison-Harmonie Historic District that will fill in an existing gap facing Harmonie Park – completing the street edge along Randolph St., enhancing the pedestrian-oriented urban fabric and adding new residents to the neighborhood. The development will provide space for new residents, businesses, and visitors in the heart of Paradise Valley. Housing, parking, and retail contained in the program support continuing investment in the cultural and creative assets already in the community.

PROGRAM

Apartments	89 units
Retail	2,700 sf
Parking	127 cars

The ground floor street frontage maximizes pedestrian oriented space – 80% of the frontage contains the residential lobby and retail space. This frontage is a continuous storefront, maximizing transparency for flexibility, visibility, and safety. A parking entrance off Randolph has also been provided for parking spaces that are hidden behind the retail storefront at grade.

Above this ground floor are two additional floors of parking for residents of the building and visitors and workers in the district. The garage is disguised from view by using openings which match the size of the windows above. The final 5 floors of the building are residential units with the majority being studios and 1 bedrooms, ranging from 420 sf to 1020 sf. At the fourth floor, a large outdoor terrace is planned for use by all residential tenants.

The exterior massing steps back at the upper floors as a gesture to the adjacent buildings along Randolph, making the overall proposed height seem smaller than it is, as well as providing space for private balconies for the units. The façade also switches materials as it goes up, breaking the overall massing into parts which are closer in size to the adjacent buildings and fit in with the context of Harmonie Park.

ZONING & CODE INFORMATION

Zoning District: B4 current / B5 rezoning in progress

Overlay/ Historic Districts: Harmonie Park Historic District / Central Business District

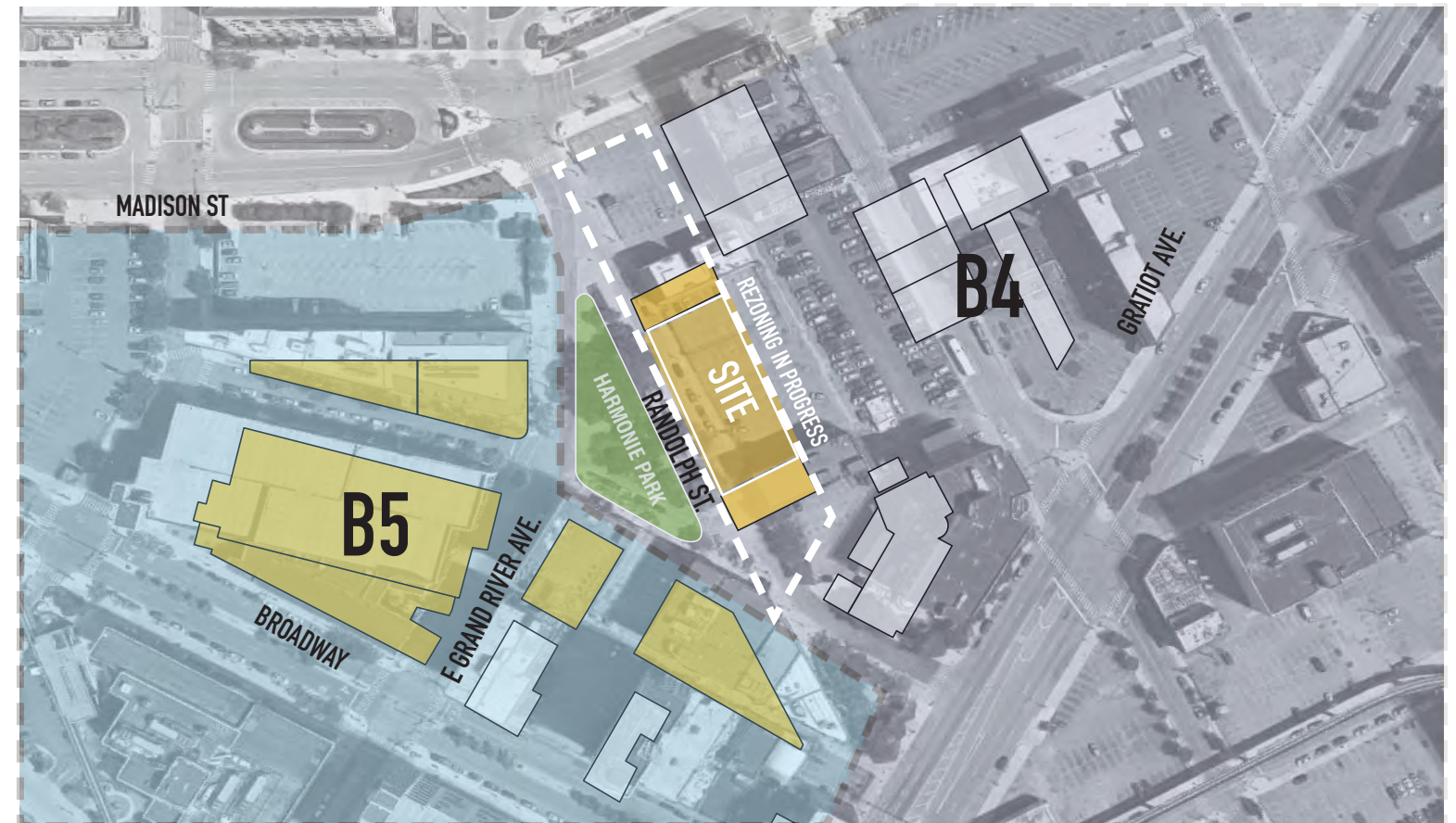
Parking Requirements:

Residential parking required:	0 required in CBD (61-14-7)
Retail parking required:	0 required in CBD (61-14-7)
Total parking required:	0 parking spaces
Total parking provided:	127 parking spaces

Gross Area & Height:

Parking Structure:	52,695 gsf 3 stories
Residential:	75,046 gsf 5 stories
Total Retail:	2,615 sf 1 story
Residential Program:	
Studios	22 units
One Bedrooms	57 units
Two Bedrooms	10 units
Total	89 units

ZONING MAP



MADISON-HARMONIE HISTORIC DISTRICT

The Madison-Harmonie Historic District is located in the northeastern section of the Central Business District around the intersection of Madison Avenue and Randolph. It is a mixed use area composed of moderate-to-large scale apartment buildings, two substantial clubs and a charitable organization, a major cultural institution, two parking garages, and small-to-moderate scale commercial buildings facing Harmonie Park, for a total of 16 buildings in all.







263 E GRAND RIVER AVE - HARMONIE CLUB
COMMERCIAL + CULTURAL



1502 RANDOLPH
COMMERCIAL + RESIDENTIAL (ADJACENT TO SITE)



1452 RANDOLPH
COMMERCIAL + OFFICE (ADJACENT TO SITE)



230 E GRAND RIVER AVE - HEMMETER BUILDING
COMMERCIAL + OFFICE



1435 CENTRE ST
COMMERCIAL + OFFICE



DETROIT ATHLETIC CLUB - 241 MADISON STREET
HOSPITALITY



163 MADISON ST - BUTZEL BUILDING
EDUCATIONAL

HISTORIC DISTRICT + CONTEXT



MADISON-HARMONIE HISTORIC DISTRICT - ELEMENTS OF DESIGN

(1) Height.

Buildings in the district range from three (3) stories tall to nine (9) stories tall. A two-story structure connects the Madison and Lenox Apartment Hotels. Talle buildings are located in the northern half of the district, primarily around Madison and the E. Grand River/ North Center Area. The majority of buildings in the southern part of the district, facing Harmonie Park, are three (3) stories tall. **The proposed Hastings Place is 8 stories tall and the building steps back at the 4th and 6th floor to reduce the height at the street wall immediately adjacent to Randolph St.**

(2) Proportion of building's front facades.

Proportion varies in the district, depending on the style and size and height of the buildings. Most of the individual commercial buildings facing Harmonie Park appear taller than wide or as tall as wide, but when taken as a continuous commercial row, the total effect is as a commercial block wider than tall. In general, where buildings abut, the effect is wider than tall. Although it is the tallest building in the district, the Milner Hotel on Center is wider than tall. The Madison and the Lenox Apartment Hotels on Madison are individually taller than wide. The D.A.C. and the Butzel Building on Madison are slightly wider than tall. However, when buildings are on corner lots, their secondary facades may be wider than tall. The Randolph front of the Roy Court Apartment Building appears as two (2) separate sections that are taller than wide because of the open space between the north and south wings, but when taken as a whole the building is wider than tall. **The proposed building is wider than it is tall, which is similar to the D.A.C and Butzel Building, but the facade steps back from Randolph Street to create multiple volumes to more closely align with the proportions that exist facing Harmonie Park.**

(3) Proportion of openings within the façade.

Areas of solids to voids vary greatly from building to building, depending on style, size, and function of the structure. In general, commercial structures around Harmonie Park have large areas of display window openings on their first stories and large window openings above. Windows are frequently arranged in groupings of several window units within one opening. The monumentally scaled buildings on Madison have very large window openings as well. The areas of voids ranges from approximately fifteen (15) percent to eighty (80) percent; most fall into the thirty-five (35) percent to fifty (50) percent range. **Like many of the existing commercial buildings there are larger openings on the ground floor for retail use. The openings above are large with groupings of several window units which is consistent with the existing buildings in the district. The windows/voids make up between 40 and 50 percent of the overall facade.**

(4) Rhythm of solids to voids in the front facades.

Openings within the facades are generally regularly arranged, due to the classical stylistic derivation of most of the buildings. Many different types of windows exist within individual buildings and throughout the district; bay windows, arched openings, and double hung sashes are some of the types. **Windows are arranged in a regular pattern with alternating window types to create an overall pattern of alternating wide and thin windows.**

(5) Rhythm of spacing of buildings on streets.

All buildings in the district are situated on their front lot lines and many abut their neighbors. When this occurs, a continuous flow of wall occurs. **The proposed building is set at the front lot line and abuts the neighboring buildings on both sides.**

(6) Rhythm of entrance and/or porch projections.

The entrances of the buildings fronting on Madison are centrally located on their front facades and are entered on axis. The steps project outward from the facades while the entrance openings recede. Entrances into the Roy Court Apartments on Randolph are located off the central open space. Entrances to the commercial buildings facing Harmonie Park are either centered or on either side of the front facade; some contain more than one entrance due to multiple storefronts, and these frequently have one step leading to the entrance. The Harmonie Club's arched entrance is located centrally and has several steps leading to the entrance opening. The Music hall Lobby is entered through openings that are flush with the front facade. **The retail space in the proposed building is centrally located on the facade with recessed entrance openings. The residential lobby opening is located to one side of the building with a recessed opening.**

(7) Relationship of materials.

Brick predominates as a building material of the majority of buildings in the district. Bedford limestone is the major material of the D.A.C. Mosaic, marble, mankato stone and brick are combined on the facade of the Music Hall. Foundations, keystones, window sills and decorative trim of brick buildings are frequently stone or cast stone. Glazed tile, terra cotta and enamelled brick are also found in the district. Window frames are either metal or wood. The decorative roof of 1502 Randolph is mediterranean tile. **The major material of the proposed building is also brick, which is the base mass of the building. As the building steps back, fiber cement is used for contrast. The proposed window frames are uPVC polymer.**

(8) Relationship of textures.

The most common textural relationship is that of the low-relief pattern of mortar joints in brick juxtaposed with smooth masonry trim. Basements of larger buildings are frequently rusticated stone; the D.A.C. walls are of smooth stone. Enamelled brick and terra cotta are smooth in texture; mankato stone has its own textural interest. Brick details and carved stone are commonly used to provide textural interest on many buildings. In general, the district is rich in textural relationships. **The proposed building also has low-relief masonry at its base. Additional textural richness is achieved through deep recessed balcony openings and the patterning of the fiber cement panelling that changes in color between the upper two volumes.**

(9) Relationship of colors.

The buildings facing Harmonie Park are predominately red or brown brick. White enameled brick, colored tiles, green and tan mosaics, buff colored brick, tan mankato stone, and light gray masonry also exist in the district. Window frames on Madison are usually painted green; the window frames of the Roy Court Apartments are cream colored to match the buff brick. Green, gray, black, and brown are common colors for window frames elsewhere in the district. **The proposed building uses gray masonry at its base, with lighter gray fiber cement above. The colors are compatible with the district without trying to imitate the existing red or brown. The window frames are black.**

(10) Relationship or architectural details.

Architectural details generally relate to architectural styles. In general, most small-scaled buildings centered around Harmonie Park are less ornate than those north of Harmonie Park. Some are utilitarian in appearance and reflect the modernistic tendencies popular in the early 20th century. Quoins, rusticated basements, carved stone, arched openings, pedimental window hoods, bracket, columns, modillion cornices and classical moldings are seen on those large buildings of classical precedents. The Music Hall has early art deco detail; its vertical sign is centered on the front of the rooftop and a marquee rests above the entrances. Where buildings are situated on corner lots, their secondary facades are often articulated and detailed in ways similar to their front facade. **The architectural detailing of the facade of the proposed building is simpler than the existing older buildings in the district and is consistent with modern architectural style of today. It is distinct from the historic context and does not attempt to replicate historic buildings in the district.**

(11) Relationship of roof shapes.

Few of the roofs in the district can be seen from the street, with the exception of the tiled front slope of the building at 1502 Randolph and the very shallow sloped roof of the Harmonie Club which is visible from longer distances. **The proposed roof will be flat and not visible from the street due to the height of the parapet wall.**

(12) Walls of continuity.

The major wall of continuity is created by the facades of the buildings themselves. Uniform setbacks within blocks exist throughout the district. Where buildings abut, a continuous wall exists. Where rows of trees are planted in front of buildings, a secondary wall of continuity is created. **The front facade of the proposed building is continuous with the facades of the adjacent buildings. The new streetscape will incorporate trees that bridge between the existing buildings.**

MADISON-HARMONIE HISTORIC DISTRICT - ELEMENTS OF DESIGN

(13) Relationship of significant landscape features and surface treatments.

The major significant landscape features in the district are the island on Madison between John R. and Randolph and the triangular Harmonie Park, bounded by Randolph, Grand River and Center Streets. The Madison Avenue island, in the center of the two-hundred-foot right-of-way, has rectangular brown, light orange, and cream pavers around its perimeters and grassy turf within. A semi-circular planter clad in buff-colored pavers is located at each end of the island. Evergreen bushes and flowers are planted behind the planters. Two (2) rows of trees—eight (8) crab apples on the western half and six (6) larger trees on the eastern half—are planted on the grassy turf. Light standards of a period design with gaslight fixtures, stamped “Patented Dec. 28, 1915,” and parking meters are also situated on the grassy island. Modern steel light poles are located elsewhere in the district; fluted metal poles generally carry street signals. Other landscaping on the north side of Madison consists of a graded, very shallow planted grassy turf area in front of the buildings, separated from the public sidewalk by concrete curbs. Where shallow side yards exist, the landscaping continues around to the sides. Hedges exist at the foundations of the Madison-Lenox Apartment Hotel, separated from the public sidewalk by a curb. Large trees are located in brick sidewalk planters on the south side of Madison and the north side in front of the Butzel Building. Harmonie Park consists of a sunken area paved with pink aggregate surrounded by a stone wall. It is planted with trees and bushes. Street furniture consists of upright light standards and wood benches. The stone fountain wall is the main feature of Harmonie Park at its southern end. Parts of the Center Street and East Grand River public sidewalks are blacktopped with locust trees planted in squares circumvented with brick pavers; some are paved with pink aggregate. **The proposed building will have street trees and paving consistent with existing sidewalk, light standards, and other street furniture along Randolph St.**

(14) Relationship of open space to structures.

Most vacant land in the district is used in parking lot usage, with the exception of the lot north of the Roy Court Apartment, which is planted with grass. Most of the vacant space is on the east side of the south half of Randolph. Only very shallow front yards and side yards exist on Madison. The buildings on Harmonie Park act as the enclosure of the open space, whereas Madison has a more open feeling due primarily to the width of the street and the space between buildings. **The proposed building will fill in vacant parcels, currently being used as parking lots and help to create a complete street wall facing Harmonie Park and further defining the open space.**

(15) Scale of facades and facade elements

The scale of buildings on Madison is monumental. Elements within range from medium to large, with detail of a small to medium scale. The brick commercial buildings facing Harmonie Park are small to moderate in scale; elements and detail within are generally small in scale. The Harmonie Club, Hemmeter Building, and the Milner Hotel are large in scale. The Roy Court Apartment Building is moderate in scale for a building of its type.

The proposed building is large in scale, but steps back at various moments to bring it closer to the small and medium scale of existing buildings facing Harmonie Park.

(16) Directional expression of front elevations.

The Roy Court Apartment Building appears taller than wide from the street of its central courtyard, although in actuality it is wider than tall. The D.A.C. and the Butzel Memorial Building are neutral in directional expression; the Madison-Lenox Apartment Hotel is vertical in expression along Madison. Most of the commercial buildings facing Harmonie Park are vertical in directional expression when taken individually; however, when seen as forming a commercial row, they are horizontal. The Milner Hotel on Center would be horizontal in directional expression if viewed on the axis of its facade, but is vertical in expression when viewed at the sharp angles permitted by the street pattern.

The proposed building creates a horizontal commercial row like those along Center St using the height of the adjacent buildings as a guide. The masses above create vertical elements to make the overall composition less horizontal.

(17) Rhythm of building setbacks.

A consistency to the building setbacks is created due to the siting of all buildings on the front building lines throughout the district.

The building is set directly on its front property lines, similar to most buildings in the district, with a recess for the retail entrance.

(18) Relationship of lot coverage.

Most buildings occupy their entire lot, with the exception of the D.A.C. and the Butzel Memorial Building, which both have narrow side yards.

The building will occupy its entire lot and abut the adjacent existing buildings.

(19) Degree of complexity within the facades.

The degree of complexity ranges from very simple to moderately complex. While there is sometimes diversity within individual facades from story to story, all buildings are straightforward in their arrangement of architectural elements and details.

The complexity of the proposed building is simple with straightforward repeating elements in each story, but introduces some complexity with the three different masses with unique materials.

(20) Orientation, vistas, overviews.

Buildings are generally oriented towards the streets they face. The Madison Hotel Building has equally important facades facing Madison and Harmonie Park. Some buildings on corner lots have secondary entrances oriented towards the side streets. Interesting vistas are created by the irregular street plan.

Because the building abuts the adjacent existing buildings - it is oriented towards the street.

(21) Symmetric or asymmetric appearance.

Most buildings are symmetrical in appearance.

The building is symmetrical, but not perfectly so. The bottom mass is steps back on both the left and right side of the front facade to create vertical expression that matches the scale of the adjacent buildings.

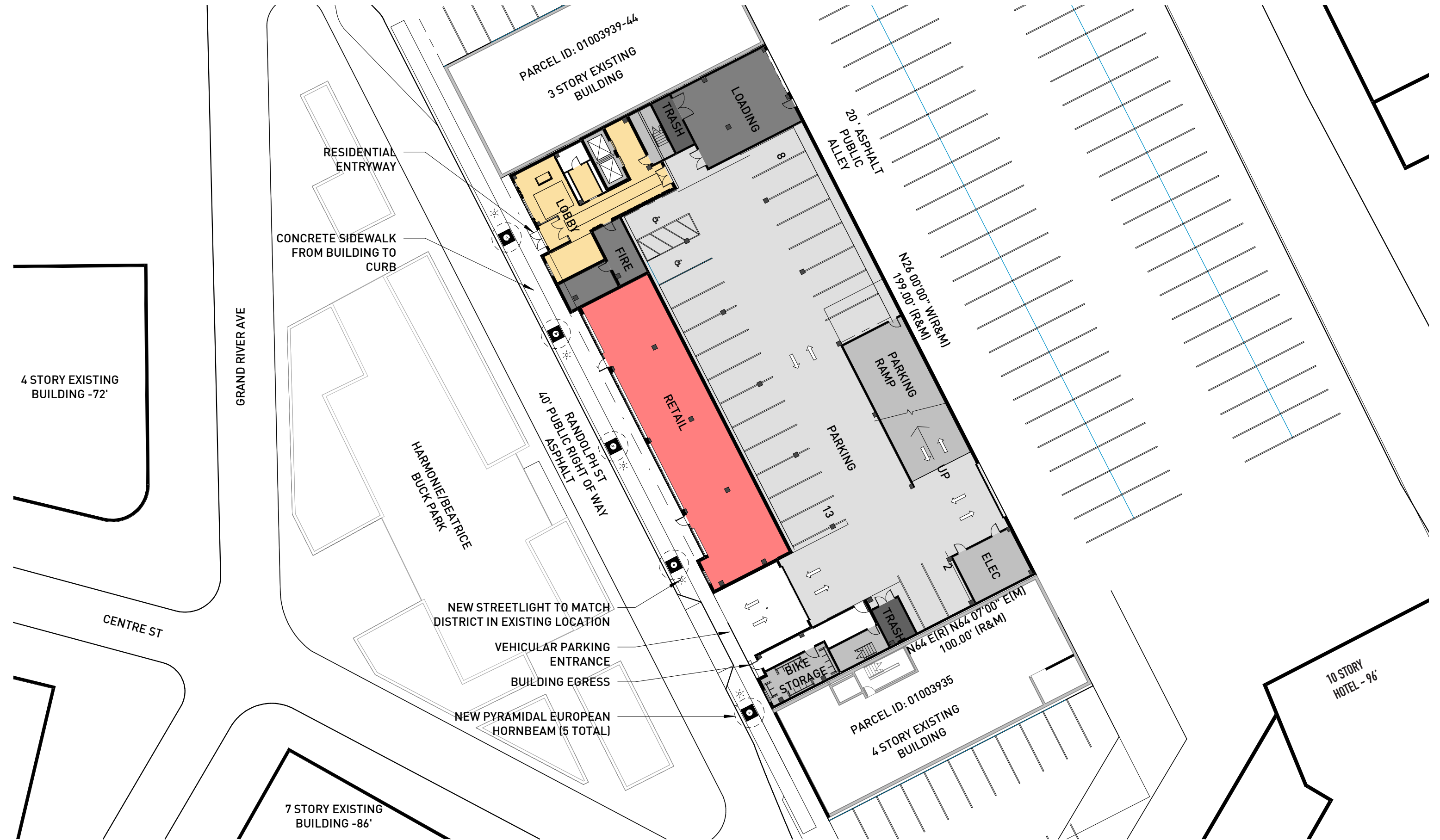
(22) General Environmental character.

The Madison-Harmonie Historic District has an urban mixed-use character due to the organizational, entertainment and multiunit residential buildings on Madison and the dense and enclosed nature of the mostly commercial Harmonie Park area. Two (2) major public spaces, the island in the center of Madison and the triangular Harmonie Park bounded by Center, Randolph, and East Grand River, define the area and contribute substantially to its character; Madison is a grand thoroughfare while Harmonie Park is an isolated pocket off major thoroughfares. Signage, primarily the Music Hall and Madison-Lenox Signs, identify significant buildings and act as beacons to the area. A cohesiveness is achieved through the use of unified landscaping and uniform setbacks. Where building demolition has occurred, primarily on the east side of Randolph between Gratiot and Madison, the area is less cohesive.

Housing, parking, and retail strategies contained in the program support continuing investment in the arts, culture, and entertainment assets of the community, while implementing proven strategies of inclusion and equity to help the neighborhood remain attainable and welcoming to all Detroiters.



BUILDING + CONTEXT – AERIAL VIEW FROM NORTH WEST



PARCEL ID: 01003939-44
3 STORY EXISTING BUILDING

4 STORY EXISTING BUILDING - 72'

GRAND RIVER AVE

RESIDENTIAL ENTRYWAY
CONCRETE SIDEWALK FROM BUILDING TO CURB

HARMONIE/BATRICE BUCK PARK

40' PUBLIC ASPHALT RANDOLPH ST

NEW STREETLIGHT TO MATCH DISTRICT IN EXISTING LOCATION

VEHICULAR PARKING ENTRANCE
BUILDING EGRESS

NEW PYRAMIDAL EUROPEAN HORNBEAM (5 TOTAL)

7 STORY EXISTING BUILDING - 86'

LOADING

20' ASPHALT PUBLIC ALLEY

N26.00'00" WR&M
199.00' (R&M)

RETAIL

PARKING

PARKING RAMP

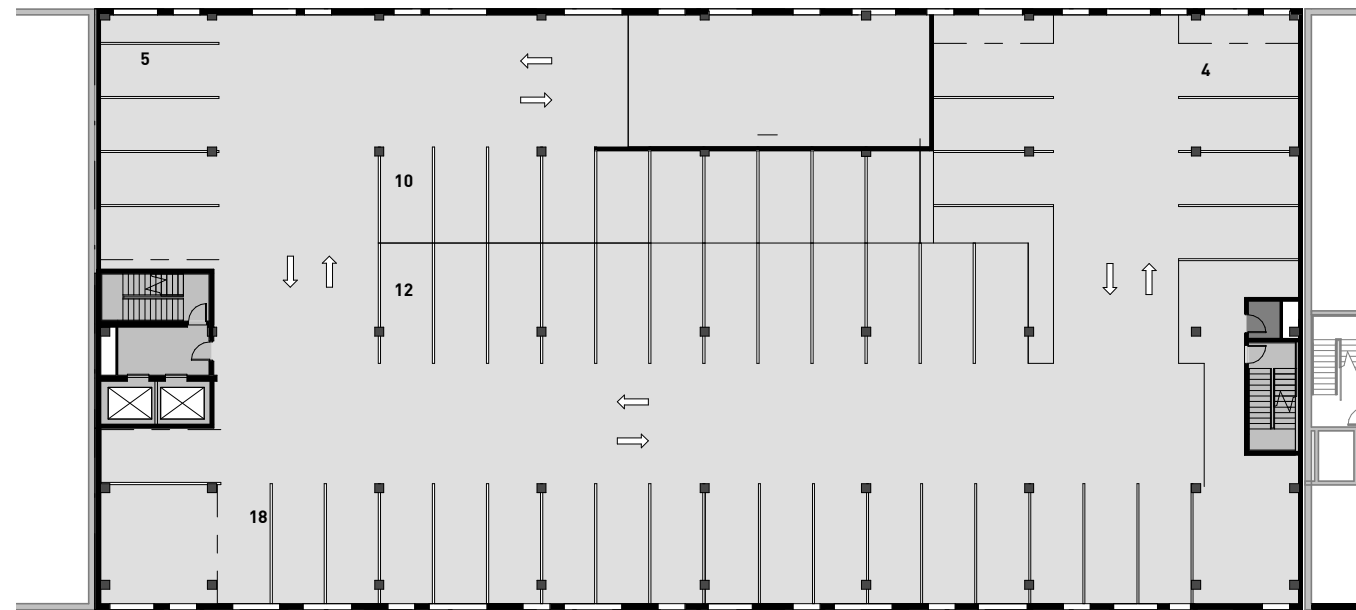
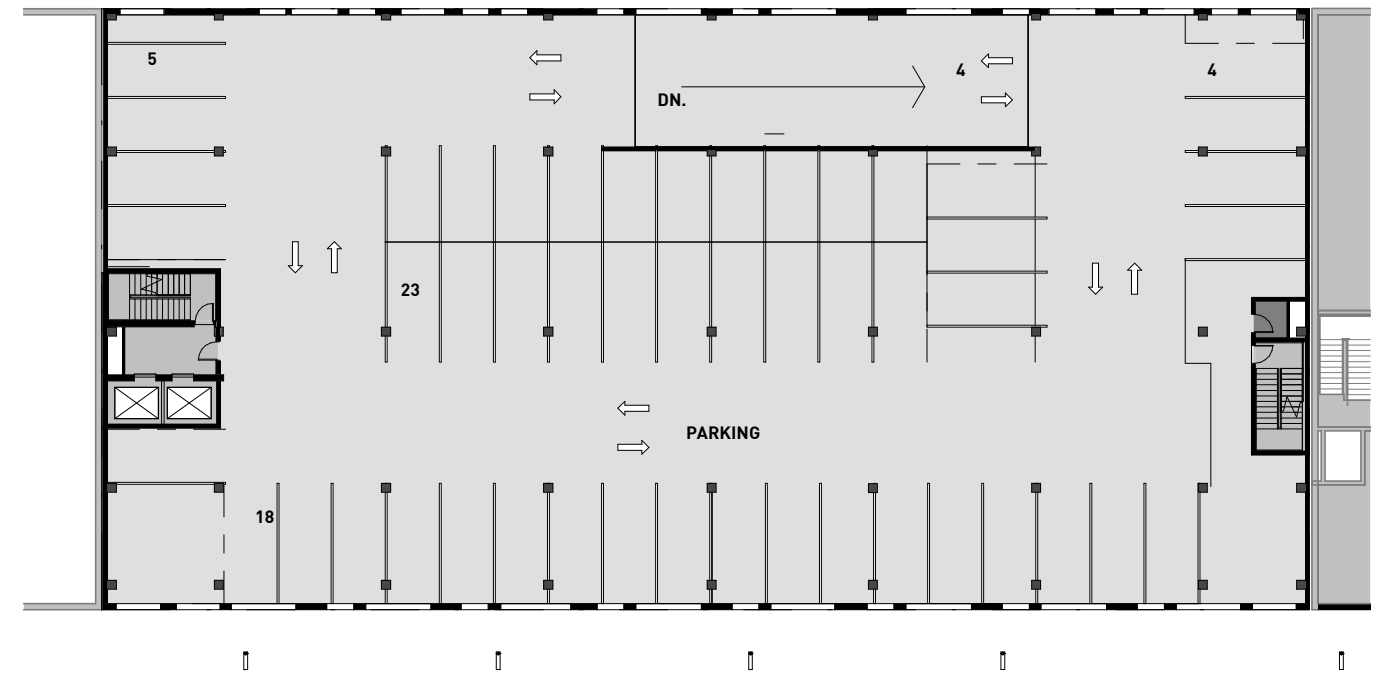
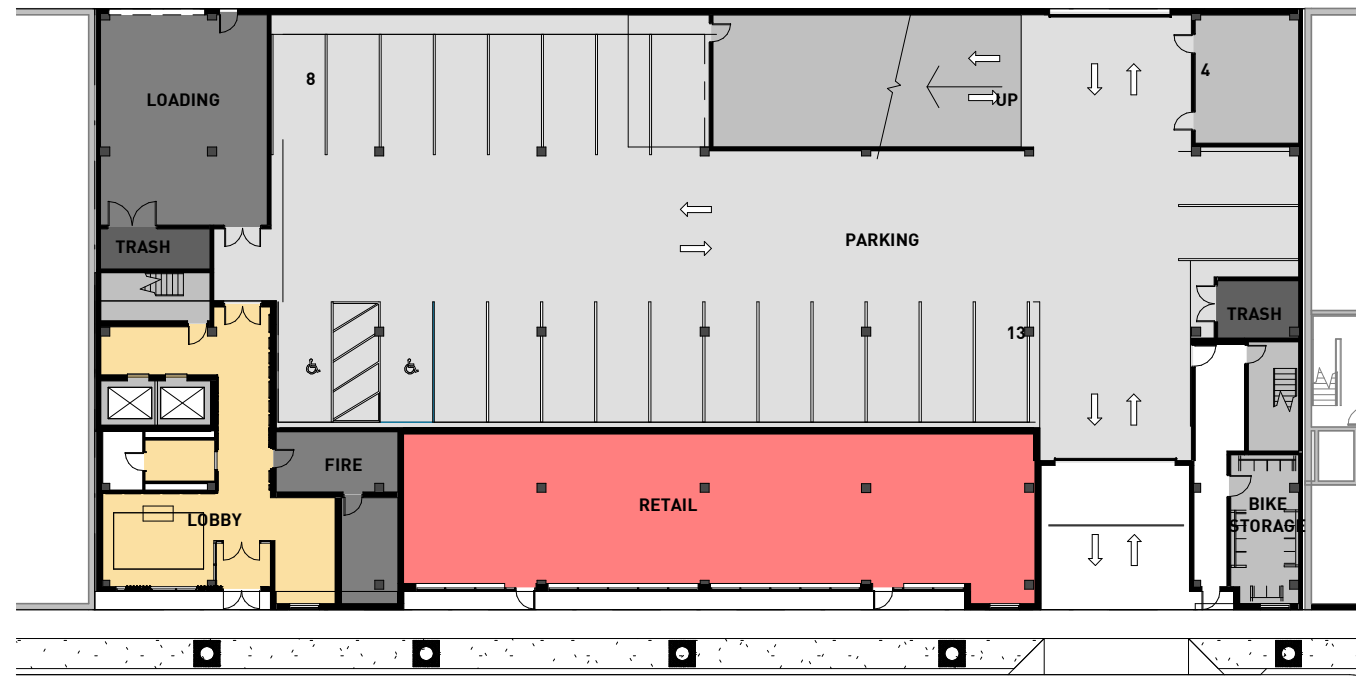
ELEC

BIKE STORAGE

N64 E(R) N64 07'00" E(M)
100.00' (R&M)

PARCEL ID: 01003935
4 STORY EXISTING BUILDING

10 STORY HOTEL - 96'







RENDERING – LOOKING SOUTH



RENDERING – FRONT ELEVATION



RENDERING – FACING NORTH FROM BEATRICE BUCK PARK

WINDOW SCHEDULE

TYPE	DESCRIPTION	OPERATION	FRAME COLOR	OVERALL SIZE
W1	INTUS SUPERA - MULLED WINDOWS & DOOR	FIXED, AWNING, SWING	BLACK	7'-10" x 9'-0"
W2	INTUS SUPERA - MULLED WINDOWS	FIXED, CASEMENT	BLACK	7'-4" x 8'-0"
W3	INTUS SUPERA - MULLED WINDOWS	FIXED, AWNING	BLACK	4'-6" x 8'-0"



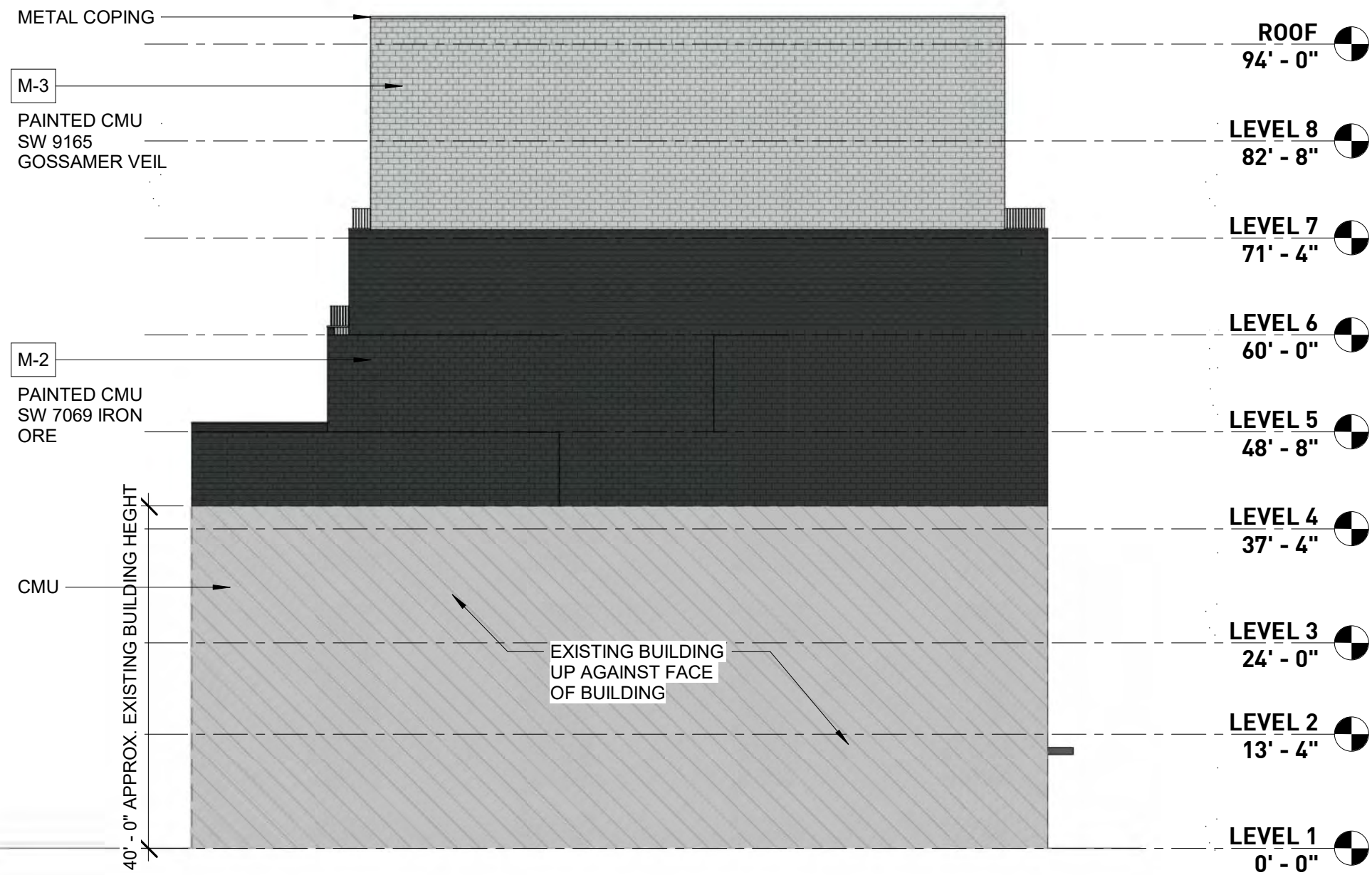
FRONT ELEVATION

WINDOW SCHEDULE

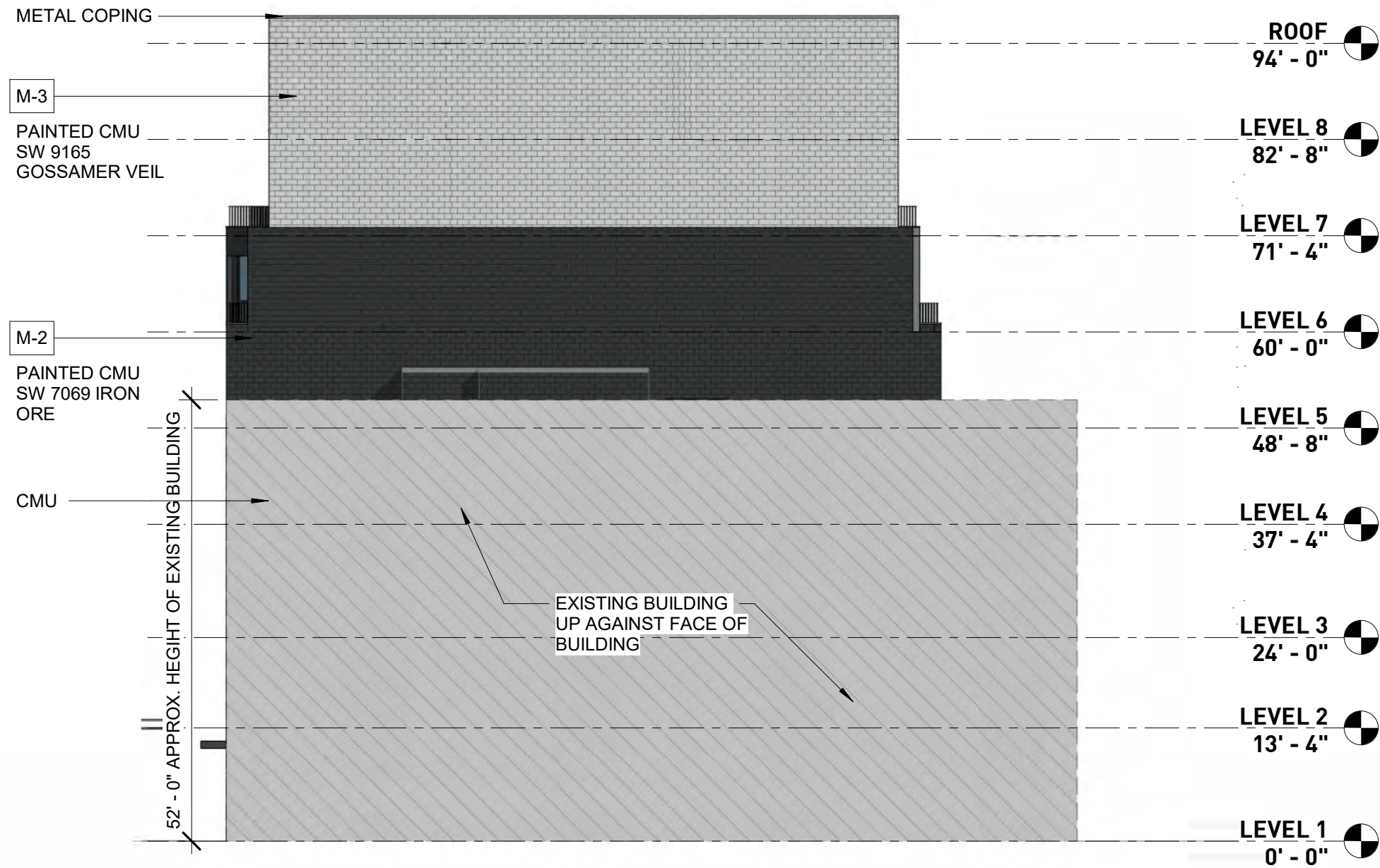
TYPE	DESCRIPTION	OPERATION	FRAME COLOR	OVERALL SIZE
W1	INTUS SUPERA - MULLED WINDOWS & DOOR	FIXED, AWNING, SWING	BLACK	7'-10" x 9'-0"
W2	INTUS SUPERA - MULLED WINDOWS	FIXED, CASEMENT	BLACK	7'-4" x 8'-0"
W3	INTUS SUPERA - MULLED WINDOWS	FIXED, AWNING	BLACK	4'-6" x 8'-0"



REAR ELEVATION



NORTH ELEVATION

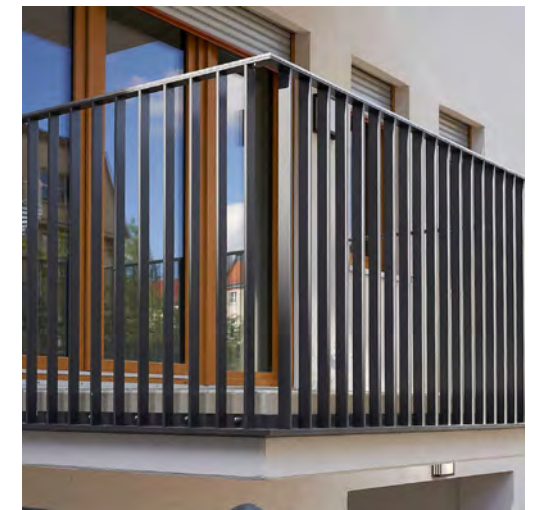


SOUTH ELEVATION

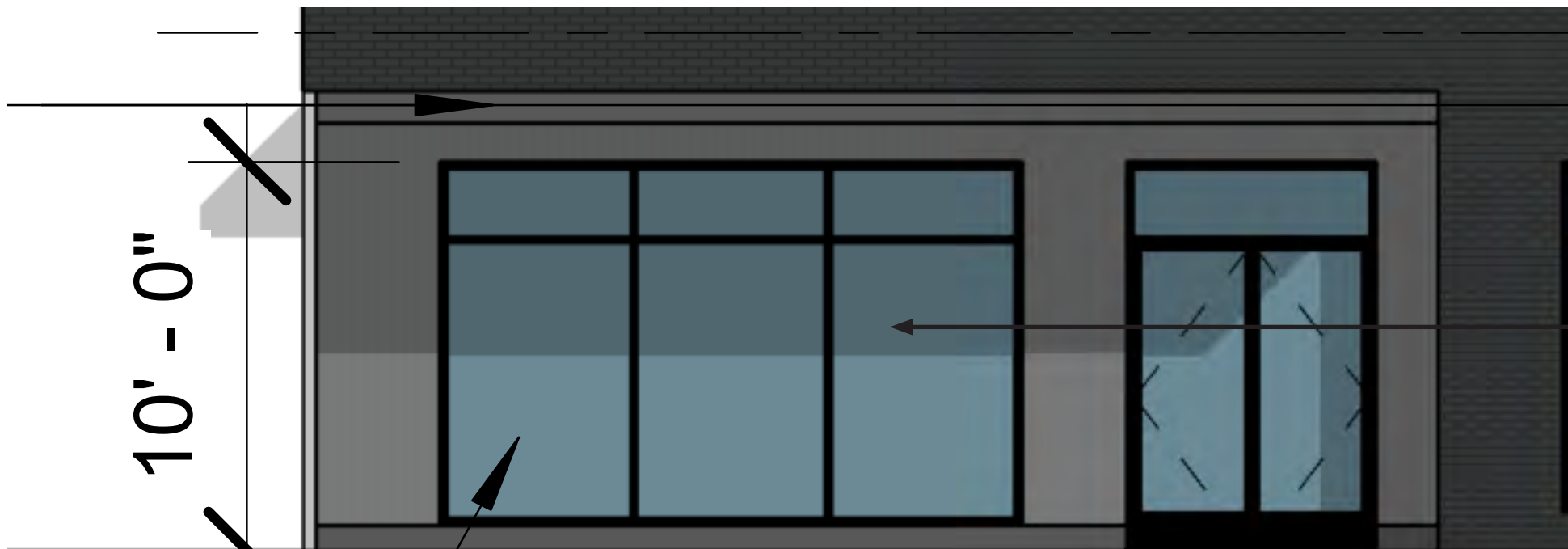




UPVC WINDOWS



HORIZONTAL METAL RAILING



BLACK THERMALLY BROKEN ALUMINUM STOREFRONT



MATERIALS

SPEC SHEETS

GRFC OKO SKIN

BRICK

RAILING

WINDOWS

STOREFRONT SYSTEM

EXTERIOR DOORS



öko skin

slat wall panels made of
glassfibre reinforced concrete

Beton lebt.



RIEDER

As beautiful as wood,
as sustainable as concrete!



Concrete lives. | Glassfibre reinforced concrete is a natural material. The raw materials used for the production of öko skin create a specific surface appearance which is typical for concrete.



Flexible applications | öko skin can be used for large-scale facades as well as for small projects such as porches, conservatories, patios, garden sheds, garages, fences and many more.



Durability | Facades clad with öko skin slat wall panels require minimum maintenance. Unlike wooden claddings, glassfibre reinforced concrete doesn't require sealing or painting.



Easy to install | The slat wall panels have a very convenient size and can be mounted and processed on site - both by professionals and skilled do-it-yourselfers.



Fire resistance | öko skin is totally fire resistant thanks to fire protection class A1 (incombustible according to DIN 4102) and therefore a safe alternative to traditional wood panelling.



Sustainability | Rieder sets itself high standards in the protection of the environment (ISO 9001 and ISO 14001 standard). The Environmental Product Declaration EPD provides detailed figures of its eco-balance.



o with two dots | ö is a character used in several Latin alphabets. The pronunciation of ö is like „i“ in „Sir“. ö can be transcribed as „oe“ and is a typical character of Austria. The ö of öko skin stands for Österreich (Austria), ökologisch (ecological) and ökonomisch (economical).



Sizes

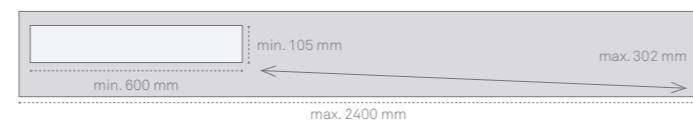
öko skin standard

Format 1800 x 147 x 13 mm | Dead load 7.9 kg/slat



öko skin flex

Other formats within a width of 105 to 302 mm and within a length from 600 to 2400 mm are available on request. | Dead load 26 kg/m²



Please refer to "öko skin characteristics" on www.rieder.cc for more details. | The slats can be cut to size and holes can be drilled by the craftsmen directly on site. Edges don't require sealing after cutting the slats.

Colours

öko skin is through colour including iron oxide and natural additives. The natural, authentic colours of öko skin fit well in landscapes and blend with nature and the environment. Each palette includes the three surfaces ferro, ferro light and smooth which create a naturally varied and vivid surface. The extended colour palette includes 12

colours, two additional grey shades create a smooth transition from polar white to liquide black, and is compatible with fibreC panels.

This play of colours within a certain colour shade is intentional and enhances the vivid character of concrete.

	polar white	off-white	ivory	silvergry	chrome	anthracite	liquide black	sahara	sandstone	terra	terracotta	green
SM smooth												
FL ferro light												
FE ferro												

Installation

öko skin slat wall panels are used as facade cladding and mounted on a substructure. They can be installed both horizontally and vertically. öko skin slats can be fastened with screws to a wooden substructure or with rivets or adhesive to an aluminium substructure. Screws and rivets are available in colour matched finish. öko skin flex can be also installed as lap siding.

NEW | Concealed fastening



For further details on the processing and mounting of öko skin slat wall panels please refer to the "öko skin installation instructions" on www.rieder.cc. Please refer to country-specific regulations regarding mounting and installation!

Assembly principle: screws on wooden substructure

- 1 wall / brickwall
- 2 counter battening, opt. insulation
- 3 main battening
- 4 sheets for waterproofing
- 5 waterstop / joint tape
- 6 öko skin slat wall panels
- 7 screw
- 8 open joint



Layout examples



öko skin flex 125 mm, various colours, vertical installation, screwed on wooden substructure



öko skin 147 mm, silvergrey, vertical installation (1/3 shifted), screwed on wooden substructure



öko skin flex 147 mm, various colours, vertical installation, rivets on aluminum substructure



Coming soon!
öko skin 147 mm, anthracite vintage, horizontal installation (1/2 shifted), glued on aluminum substructure



Rieder Smart Elements GmbH

Mühlenweg 22 | 5751 Maishofen | Austria
T +43 6542 690 844 | F +43 6542 690 855
oeoskin@rieder.cc | www.rieder.cc



Office & production building | Spießberger Bau
concrete skin in polar white with ferro

CS
concrete skin

authentic

Large-format panels

The stable panels, only 13 mm thick, open up a wide scope for the realisation of ideas. Literally like a skin, concrete skin stretches smoothly over buildings and, in combination with formparts, over corners and edges. This creates a unique flow of material.

Colours > all
Surfaces > all
Textures > all
Fastening > visible & concealed

fp
formparts

monolithic

formparts.fab

formparts.fab are sharp-edged elements and are assembled from several parts. The large unwinding width means that several different formed parts can be combined with each other. Various surfaces and textures are available, which can be individually combined with each other.

Colours > all
Surfaces > all
Textures > all (excl. glossy)
Fastening > visible & concealed



Lichtfabrik | Bollinger+Fehlig Architects, Stoeckert Architects
formparts.fab in ivory with ferro

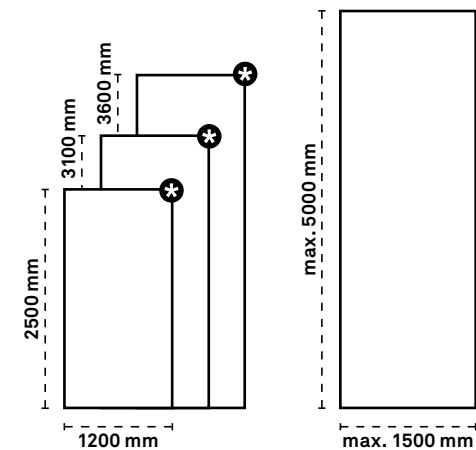
formparts.mono

formparts.mono are manufactured from one panel using folding moulds. The curved elements are custom-made and are available with L- or U-cross section, as round arches and special shapes.

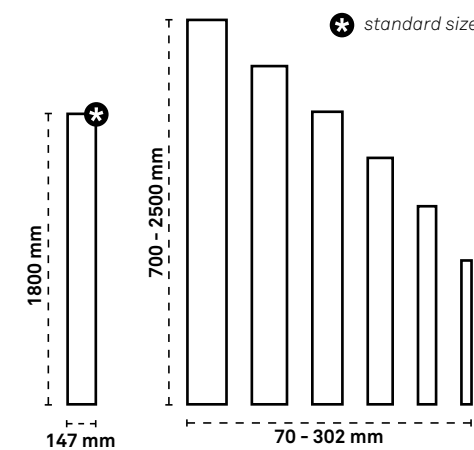
Colours > all
Surfaces > ferro light & ferro
Textures > standard
Fastening > visible & concealed

Technical details

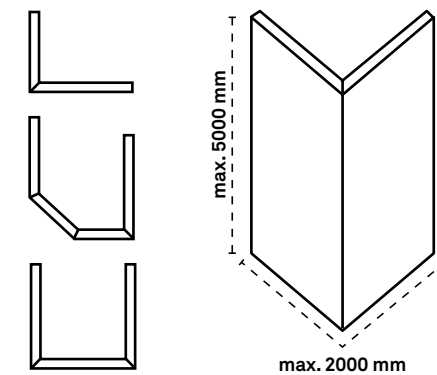
concrete skin



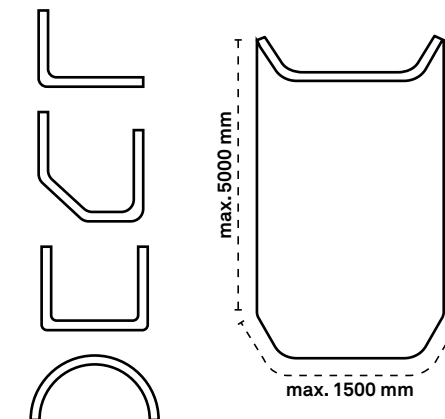
öko skin



formparts.fab



formparts.mono



ös

öko skin

vivid

Facade slats

With öko skin, Rieder offers slatted concrete facades. The various surface design options create a vibrant play of colours. The slats can be installed with little effort and unlike wood, never need to be painted or sanded.

Colours > all
Surfaces > all
Textures > standard & vintage
Fastening > visible & concealed



Living in Eelderwolde | Been Boon Architects
öko skin in silvergrey with ferro light | ferro

Colour collections

greyscale	pietra	bricky	timber
polar white	cotton	coralline	larch
off-white	vanilla	terracotta	oak
ivory	sahara	oxide red	walnut
silvergrey	sandstone	burgundy	ebony
chrome	almond	merlot	terra
anthracite			
liquid black			

Surfaces

matt	matt or brushed surface
ferro light	lightly blasted surface
ferro	blasted surface

Textures

slate	
--------------	--

All textures are on www.rieder.cc/textures



INTERSTATE® BRICK



Architectural Series

Interstate Brick: Beautiful, Durable, Sustainable!

The founders of Interstate Brick established one simple goal in 1891: To be the best brick manufacturer in North America. Today, that goal has been transformed into thousands of notable buildings from coast to coast.

We provide brick veneer, paving brick, and thin brick for a wide range of projects from single family residential to 20-story sky scrapers. What sets Interstate Brick's products apart is our 16 inch Emperor™ face brick and our 16" Atlas™ structural brick in sizes from modular to 8x8x16 and 10x4x16. What sets Interstate Brick's service apart is our experienced sales team with technical leadership.

Our focus is on systems analysis and design. We assist architects and engineers with design ideas and details for a variety of building envelope solutions. We understand codes and specification guidelines. Our brick can be utilized to meet design parameters for any climate zone and natural disaster potential in North America, even bomb blast and ballistics considerations. Interstate Brick is the industry benchmark!

Fired clay brick have low embodied energy, one of the lowest life cycle costs, and the durability of stone. Interstate's brick are made from blends of natural clays, post industrial, and post consumer recycled brick. For these properties and thermal performance Interstate's bricks have contributed to many LEED certified projects across the country.

Our production process has set the industry EPA MACT standard for clean air, and our waste water is reclaimed on site to tertiary standards.

Interstate Brick is your sustainable solution!

2-1/4" Modular Commercial



2 1/4 Modular – This brick size is the industry standard. It was designed to fit to a mason's hand grip. The unit is designed to turn corners and start a wall in running bond (this is where the mortar joints in the brick below are centered on the brick above). 3 brick courses equals one brick laid in a soldier course (stacked vertically). This brick is the easiest to use when creating patterns in the wall. There are 6.85 brick per square foot.

3-5/8" x 2-1/4" x 7-5/8"

[Click here \(/sites/default/files/library/face-brick-dimension-and-details.pdf\)](/sites/default/files/library/face-brick-dimension-and-details.pdf) for brick specifications.

Available Colors

Click on any of the colors below to see details and project photos:

*We cannot guarantee that your monitor's display of any color will be accurate. Please contact us to request a sample.



Black Opal Image Gallery

There are no Black Opal projects in the gallery at this time.

Shapes

Click on any of the sizes below to see more details

2 1/4" Modular Lip
Soldier 5/8" X 5/8"



2 1/4" Modular Lip
Stretcher 5/8" X 5/8"



2 1/4" Modular 135
Degree Dogleg Internal

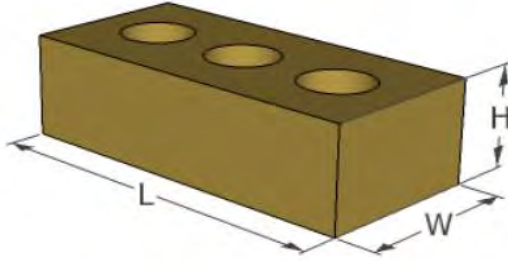


2 1/4" Modular 45
Degree 5 1/8" Sill



<https://www.interstatebrick.com/sites/default/files/2014-09/2014-09-14-Des...>

Face Brick Specifications



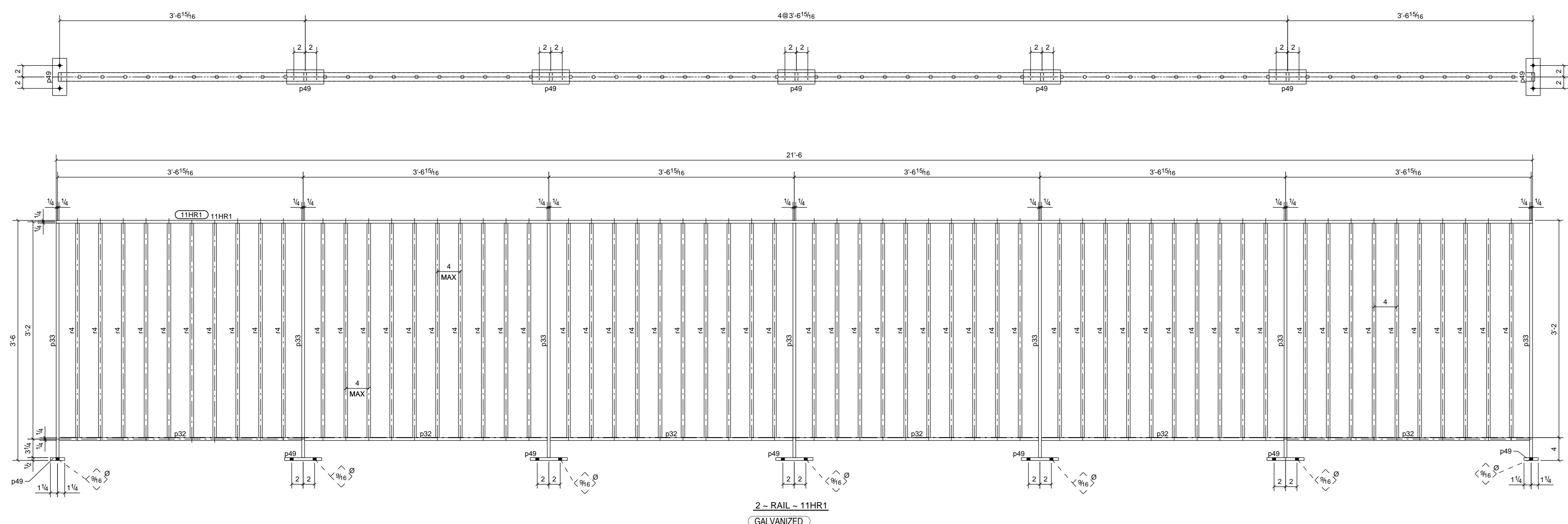
Commercial / Residential Brick - Dimensions, Weights, and Coverage

Description	Width (W)		Height (H)		Length (L)		Weights		Unts/ft ²		Packaging	
	in	mm	in	mm	in	mm	lbs	kg	Unts/ft ²	Units/M ²	Type	Qty
King	3	76	2 5/8	67	9 5/8	244	4.7	2.1	4.80	51.7	Cube	424
2 1/4" Modular	3 5/8	92	2 1/4	57	7 5/8	194	3.8	1.7	6.86	73.8	Cube	500
2 3/4" Modular	3 5/8	92	2 3/4	70	7 5/8	194	5.1	2.3	5.60	60.3	Cube	380
4" Modular	3 5/8	92	3 9/16	90	7 5/8	194	6.1	2.8	4.50	48.4	Cube	305
8" Modular	3 5/8	92	7 9/16	192	7 5/8	194	12.5	5.7	2.25	24.2	Pallet	128
2 1/4" Norman	3 5/8	92	2 1/4	57	11 5/8	295	5.5	2.5	4.47	48.1	Cube	300
4" Norman	3 5/8	92	3 9/16	90	11 5/8	295	8.7	4.0	3.00	32.3	Cube	183
2 1/4" Emperor	3 5/8	92	2 1/4	57	15 5/8	397	8.9	4.0	2.76	29.7	Pallet	240
4" Emperor	3 5/8	92	3 9/16	90	15 5/8	397	11.5	5.2	2.25	24.2	Pallet	160
8" Emperor	3 5/8	92	7 9/16	192	15 5/8	397	23.0	10.5	1.13	12.1	Pallet	64

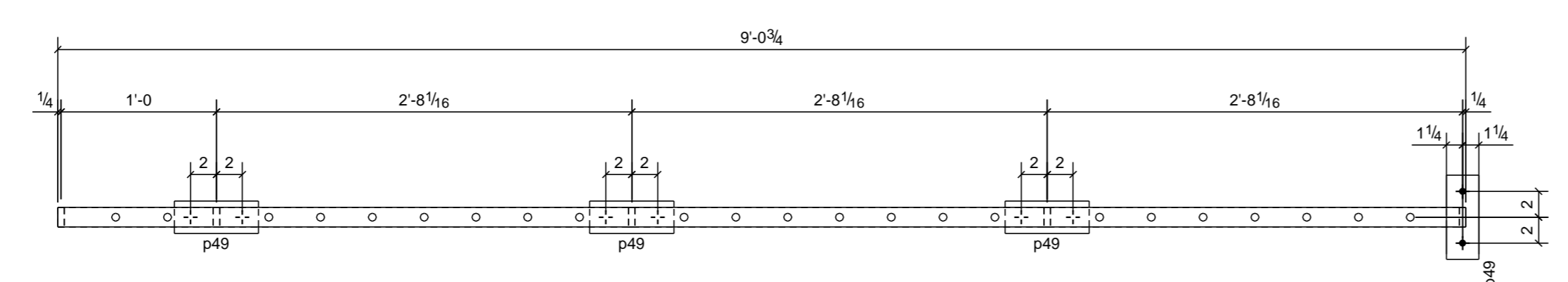
The above brick manufactured by Interstate Brick Company comply with the following specifications:

ASTM C216: Grade SW; Type FBA, FBS or FBX as specified in Purchase Order

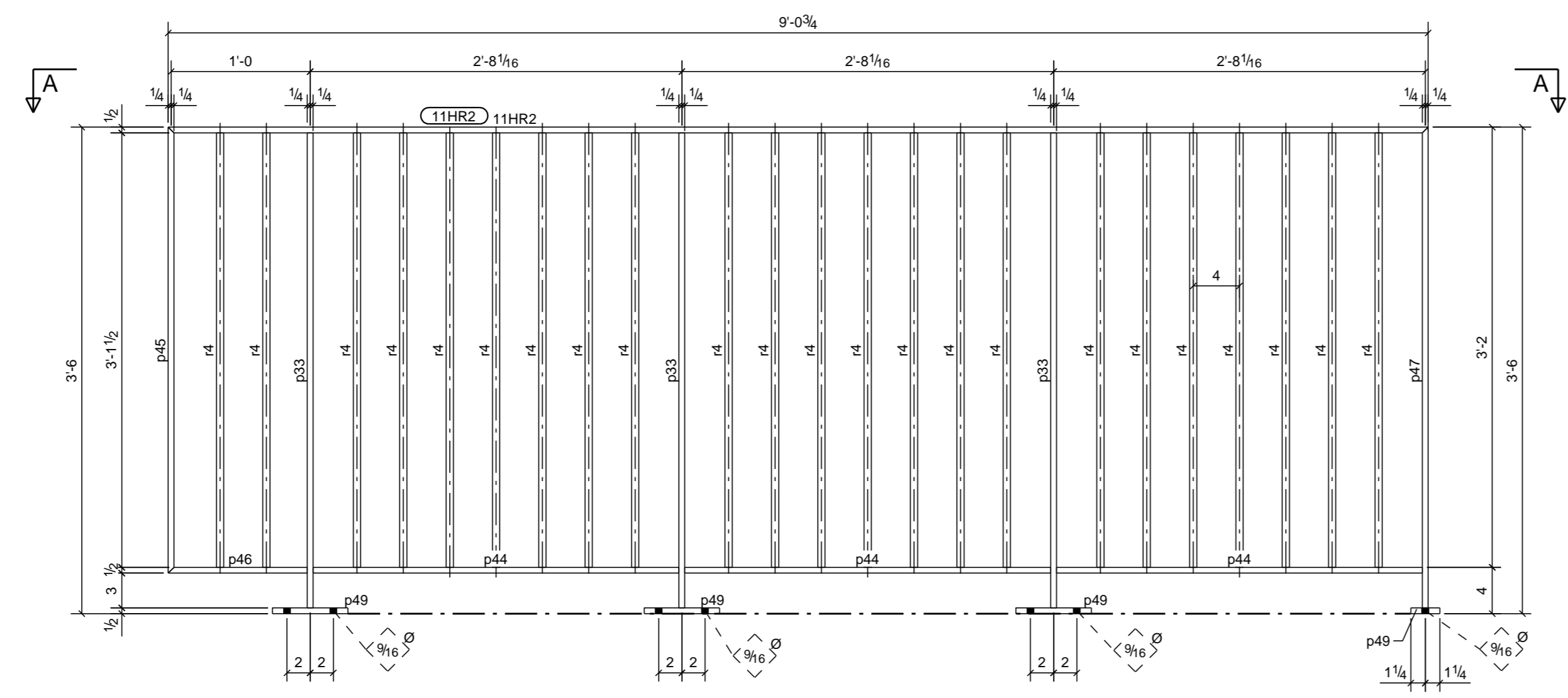
CSA A82: Grade EG; Type FBA, FBS or FBX as specified in Purchase Order



2 - RAIL - 11HR1
GALVANIZED



A - A



2 - RAIL - 11HR2
GALVANIZED

BILL OF MATERIAL

SHIP	MARK	NO	DESCRIPTION	LENGTH	PIECE	REMARKS
		PCS			MARK	
2	11HR1	2	PL1/2"X1 1/2"	21'-6"		A36
		12	PL1/2"X1 1/2"	3'-6 7/16"	p32	A36
		14	PL1/2"X1 1/2"	3'-5"	p33	A36
		14	PL1/2"X2 1/2"	0'-6 1/2"	p49	A36
		120	RB5/8"	3'-1 1/2"	r4	A36
2	11HR2	2	PL1/2"X1 1/2"	9'-0 11/16"		A36
		6	PL1/2"X1 1/2"	3'-5"	p33	A36
		6	PL1/2"X1 1/2"	2'-7 9/16"	p44	A36
		2	PL1/2"X1 1/2"	3'-2 1/2"	p45	A36
		2	PL1/2"X1 1/2"	1'-0"	p46	A36
		2	PL1/2"X1 1/2"	3'-5 1/2"	p47	A36
		8	PL1/2"X2 1/2"	0'-6 1/2"	p49	A36
		46	RB5/8"	3'-1 1/2"	r4	A36

**CUSTOM VERTICAL RAILING -
SHOP FABRICATED.**

ALL STEEL ON THIS SHEET
GALVANIZED

A photograph of a modern multi-story building facade. The building features a mix of materials, including white panels, dark grey panels, and large glass windows. The windows are framed with dark frames. The building is set against a clear blue sky. A traffic light is visible in the foreground, partially obscured by a white banner.

PRODUCT CATALOG



BUILT TO BE THE MOST ENERGY EFFICIENT

INTUS creates high performing windows and doors that **conserve energy**, **increase thermal performance**, and **reduce noise**. By balancing superb energy efficiency, affordability, and versatility, INTUS is making sustainable building attainable for any type of commercial project in the U.S.

The source of nearly 48% of the world's greenhouse gas emissions is from buildings, with conventional windows and doors responsible for 25-40% of lost heating and cooling energy. Fenestrations are key to dramatically increasing the energy efficiency of buildings and decreasing wasted energy. Whether you're building a modern multi-family building beside the NYC subway, luxury hotel in Tennessee, or a school in Maine, INTUS has customizable solutions that balance costs, long-term performance, and secure savings on the ever-rising cost of energy.

1875 ATLANTIC AVENUE - Brooklyn, NY

» Sound: STC 45/OITC 38

Architect: Studios C Architect & Design

Installer: Windows of NYC

Project Type: Multi-family residential

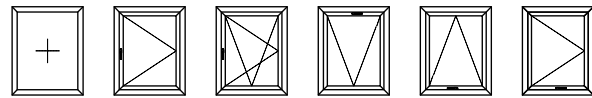


WHY SUPERA 83 PASSIVE?

- + Passive House Institute (PHI) Certified
- + Thermally efficient profile
- + High performance triple glazing
- + Affordably achieves PHI Certification for any climate zone in the U.S. & areas of Canada



Available in 6 window styles:



Air Infiltration
 $<0.1 \text{ cm/ft}^2$

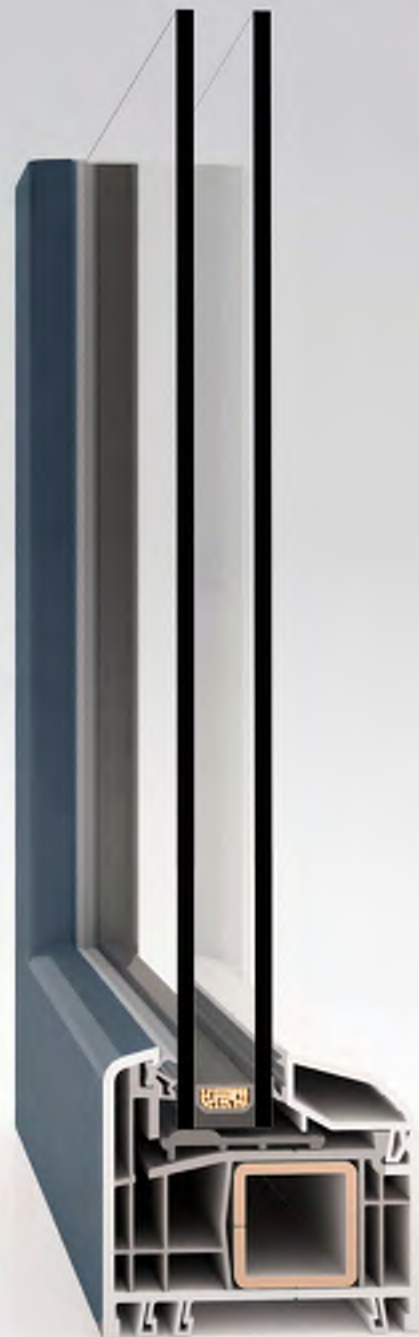
Water Penetration
 Up to 12.11 psf

Design Pressure (DP) - Fixed
 $\pm 40.10 \text{ psf} \mid \pm 60.16 \text{ psf}$

Design Pressure (DP) - Casement
 $\pm 40.10 \text{ psf} \mid \pm 70.18 \text{ psf}$



PRODUCTS




Profile available in both double and triple pane options.




NFRC Values

U-value (BTU/hr.ft ² .°F)	0.14–0.28
SHGC (Solar Heat Gain Coefficient)	0.17–0.51
VT (Visual Transmittance)	0.34–0.66

 Air Infiltration
0.06–0.1 cfm/ft²

 Water Penetration
Up to 10.65 psf

 Water Penetration
Up to 12.11 psf

 Design Pressure (DP)
±40.10 psf | ±70.18 psf

EMBLEM AT BARRACKS ROW - Washington, DC

» LEED Gold Certified

Architect: Fillat+ Architecture

Developer: Bozzuto Group

GC: Northfield Construction & Development

Project Type: Multi-family residential/Mixed-use



ADA Compliant Operational Force Under 5 lbs.*

Title	Result Summary
Vent Operational Force (Initiate motion)	16 N (3.5 lbf)
Vent Operational Force (Maintain motion)	2 N (0.5 lbf)
Lock Operational Force	18 N (4.0 lbf)

*For casement windows only

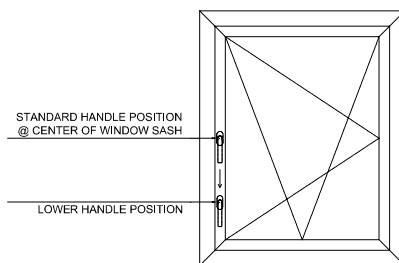
Profile available in both double and triple pane options.



NFRC Values

U-value (BTU/hr.ft ² .°F)	0.17–0.28
SHGC (Solar Heat Gain Coefficient)	0.12–0.43
VT (Visual Transmittance)	0.22–0.56

Air Infiltration <math><0.1 \text{ cfm/ft}^2</math>	Water Penetration (CW) Up to 10.65 psf (AW: 12.11)	Design Pressure (DP) $\pm 40.10 \text{ psf}$ $\pm 70.18 \text{ psf}$
---	--	--



Quik Bock & Skin
 695 GRAND STREET - Brooklyn, NY
 Architect: Magnusson Architecture & Planning PC
 Developer: St. Nicks Alliance
 GC: Galaxy GC Group, LLC
 Project Type: Multi-family residential



POINT 262 CONDOMINIUMS -
Cambridge, MA

» LEED Certified

Architect: Khalsa Design, Inc.

GC: Nauset Construction

Installer: OnTime Construction

Project Type: Multi-family residential



THE EDWIN HOTEL - Chattanooga, TN

» Chattanooga's 1st luxury boutique hotel

» Gold Key Awards Finalist

Architect: Tinker Ma Architecture & Design

Developer: Vision Hospitality Group

GC: Acumen Development Partners

Project Type: Hospitality

NFRC Values

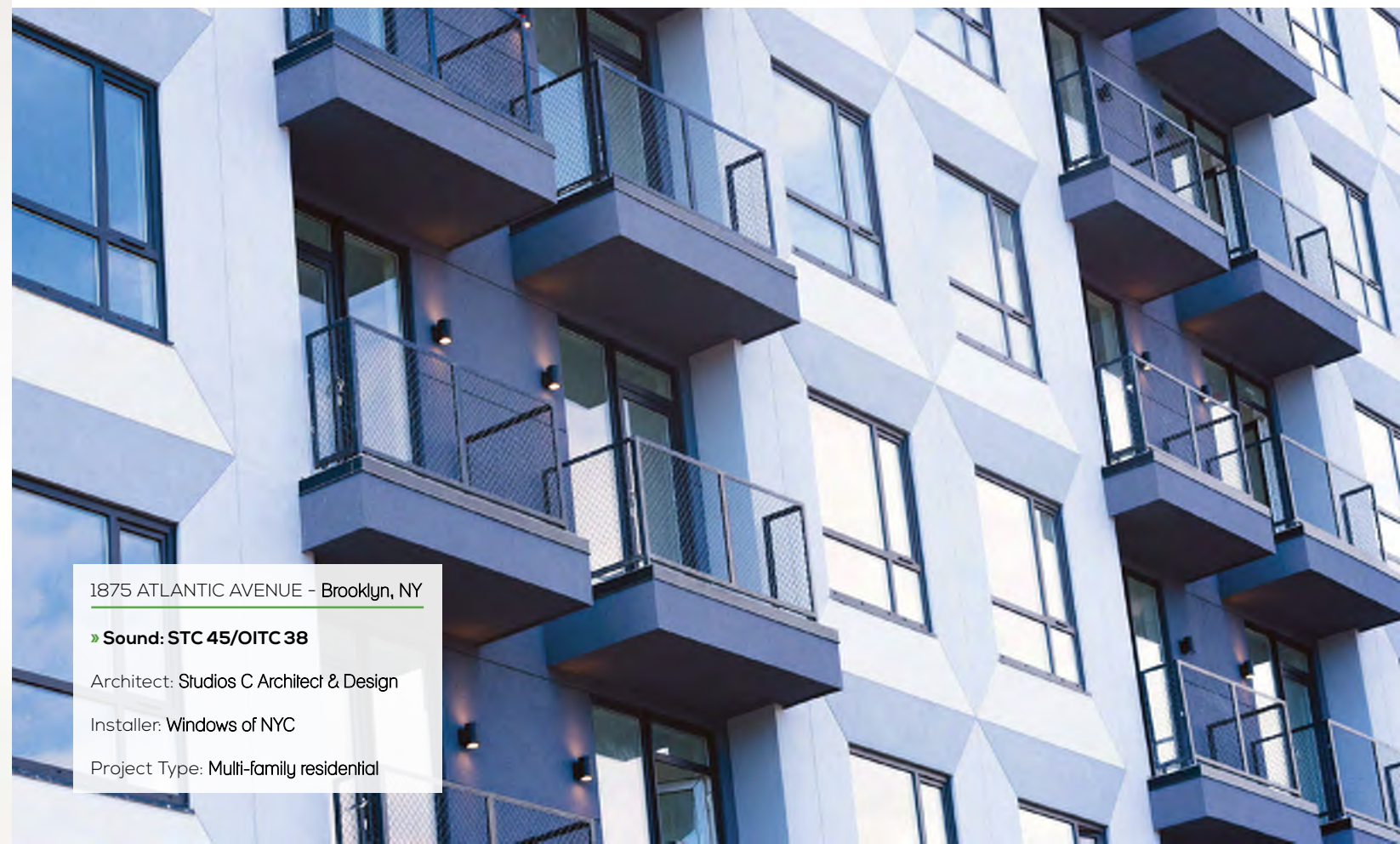
U-value (BTU/hr.ft ² .°F)	0.21-0.28
SHGC (Solar Heat Gain Coefficient)	0.10-0.28
VT (Visual Transmittance)	0.18-0.36

Air Infiltration
<0.1 cfm/ft²

Water Penetration
8.15 psf | 12.11 psf

Design Pressure (DP)
±40.10 psf | ±70.18 psf

Create an array of entry looks with a wide offering of designs and colors, while balancing energy efficiency, affordability, and style with Supera balcony doors.



1875 ATLANTIC AVENUE - Brooklyn, NY

» Sound: STC 45/OITC 38

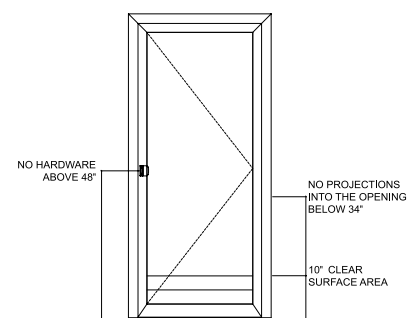
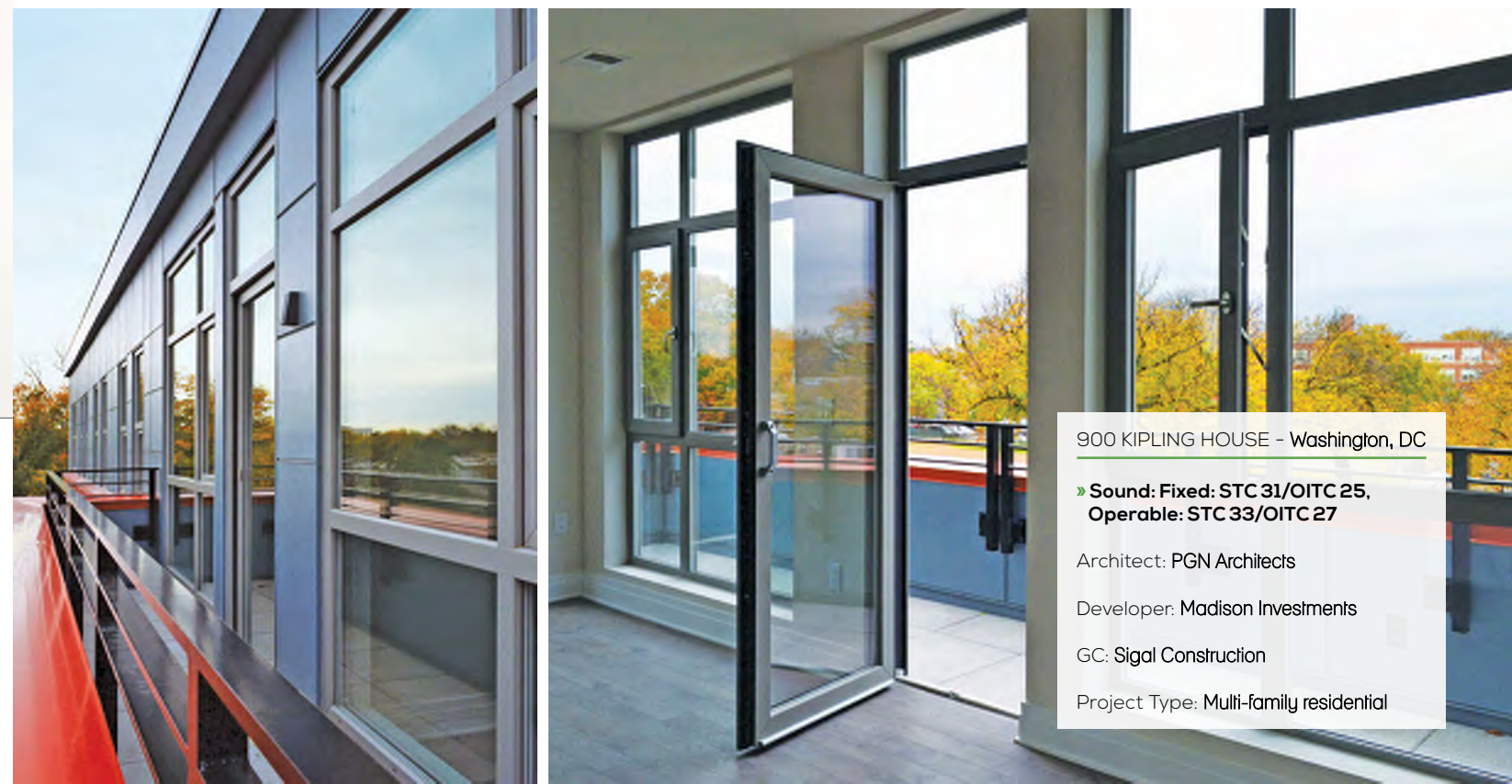
Architect: Studios C Architect & Design

Installer: Windows of NYC

Project Type: Multi-family residential



ADA Compliant Pemko Threshold



900 KIPLING HOUSE - Washington, DC
» Sound: Fixed: STC 31/OITC 25, Operable: STC 33/OITC 27
Architect: PGN Architects
Developer: Madison Investments
GC: Sigal Construction
Project Type: Multi-family residential

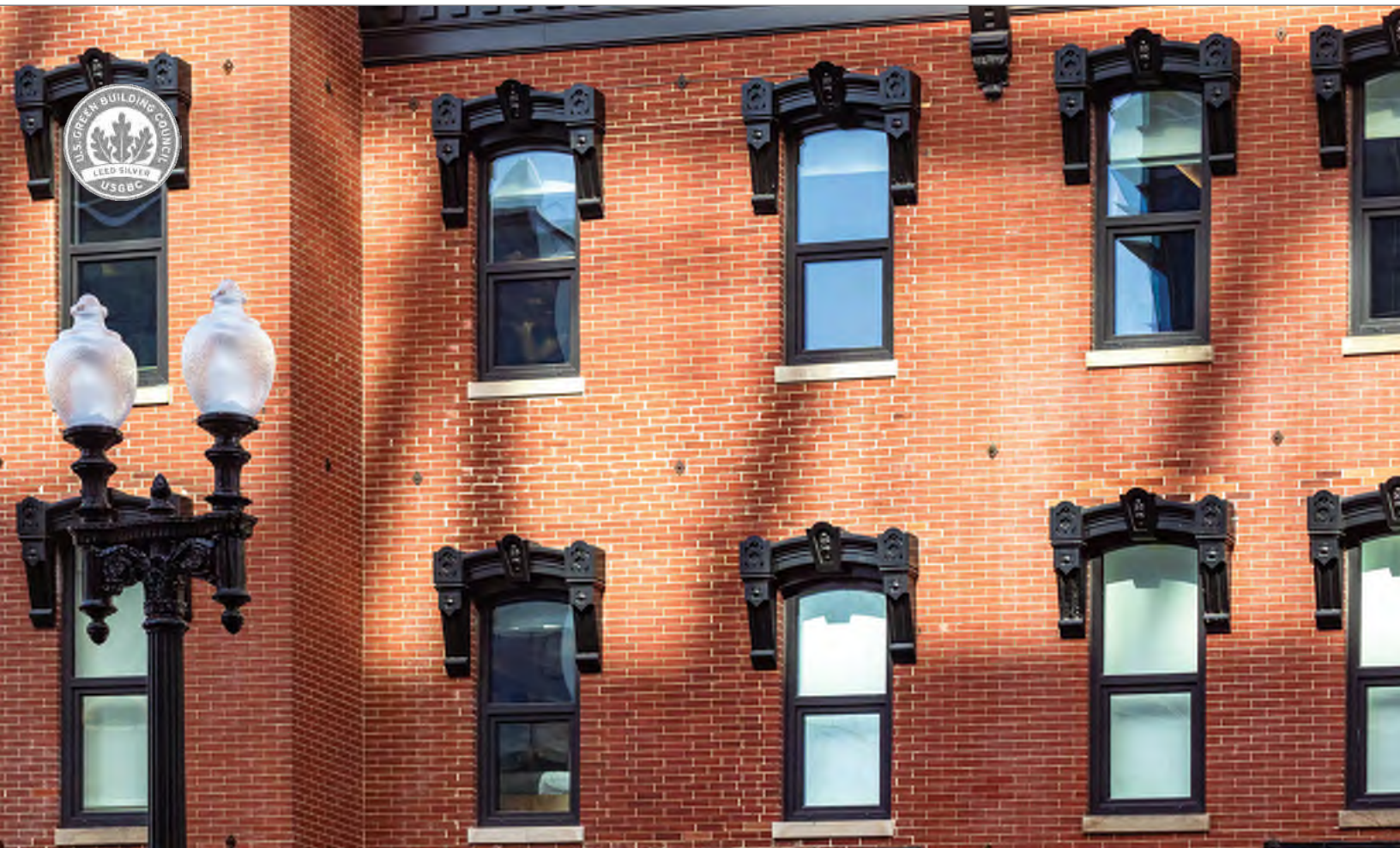


Inner walls made from pre-consumer recycled polymer



- ✓ 50+ year service life
- ✓ Phthalate & lead-free unplasticized-polyvinyl chloride (uPVC)
- ✓ BPA-free & no off-gassing
- ✓ Environmentally friendly stabilizers
- ✓ Non-conductive & #1 material in thermal insulation
- ✓ Rot-proof frames
- ✓ Corrosion & salt erosion resistant frames
- ✓ Self-extinguishing
- ✓ Very minimal maintenance
- ✓ 100% recyclable up to 7 times

ADVANTAGES



MOXY HOTEL DC - Washington, DC

- » Sound: STC 45/OITC 38
- » LEED Silver Certified
- » Gold Key Awards Finalist

Architect: Fillat+ Architecture
 Developer: Douglas Development
 GC: CBG Building Company
 Project Type: Hospitality

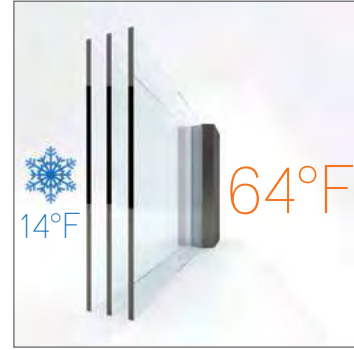
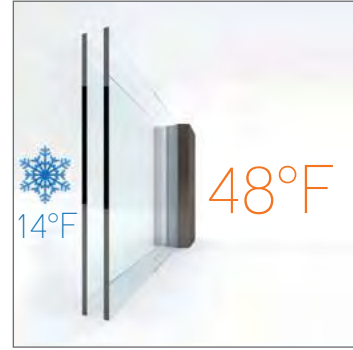


900 KIPLING HOUSE - Washington, DC

- » Sound: Fixed: STC 31/OITC 25,
Operable: STC 33/OITC 27

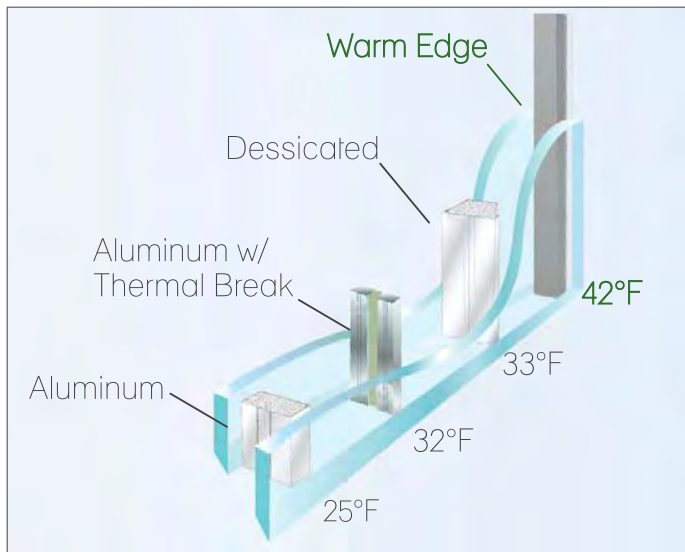
Architect: PGN Architects
 Developer: Madison Investments
 GC: Sigal Construction
 Project Type: Multi-family residential

Increased Interior Pane Glass Surface Temperature

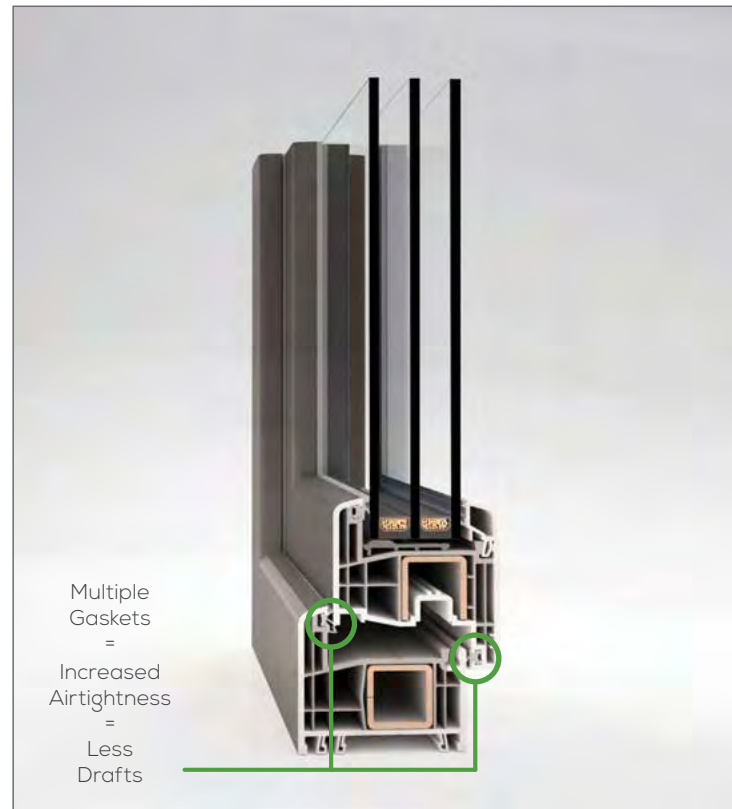


Warm Edge Spacers

- ✔ Improved interior surface temperatures
- ✔ Reduced condensation on the edge of the glass
- ✔ Greatly improved energy efficiency



Compressed Seal Technology



PROSPECT PLAZA - Brooklyn, NY

- » LEED Platinum Certified (Phase I)
- » LEED Gold Certified (Phase II)
- » Project participating in NYSEDA Multi-Family Version 5 Performance for New Construction program
- » LEED for Homes Multi-Family Midrise V2010, & NGBS Certification (National Green Building Standard)

Architect: Datner Architects

Project Type: Multi-family residential



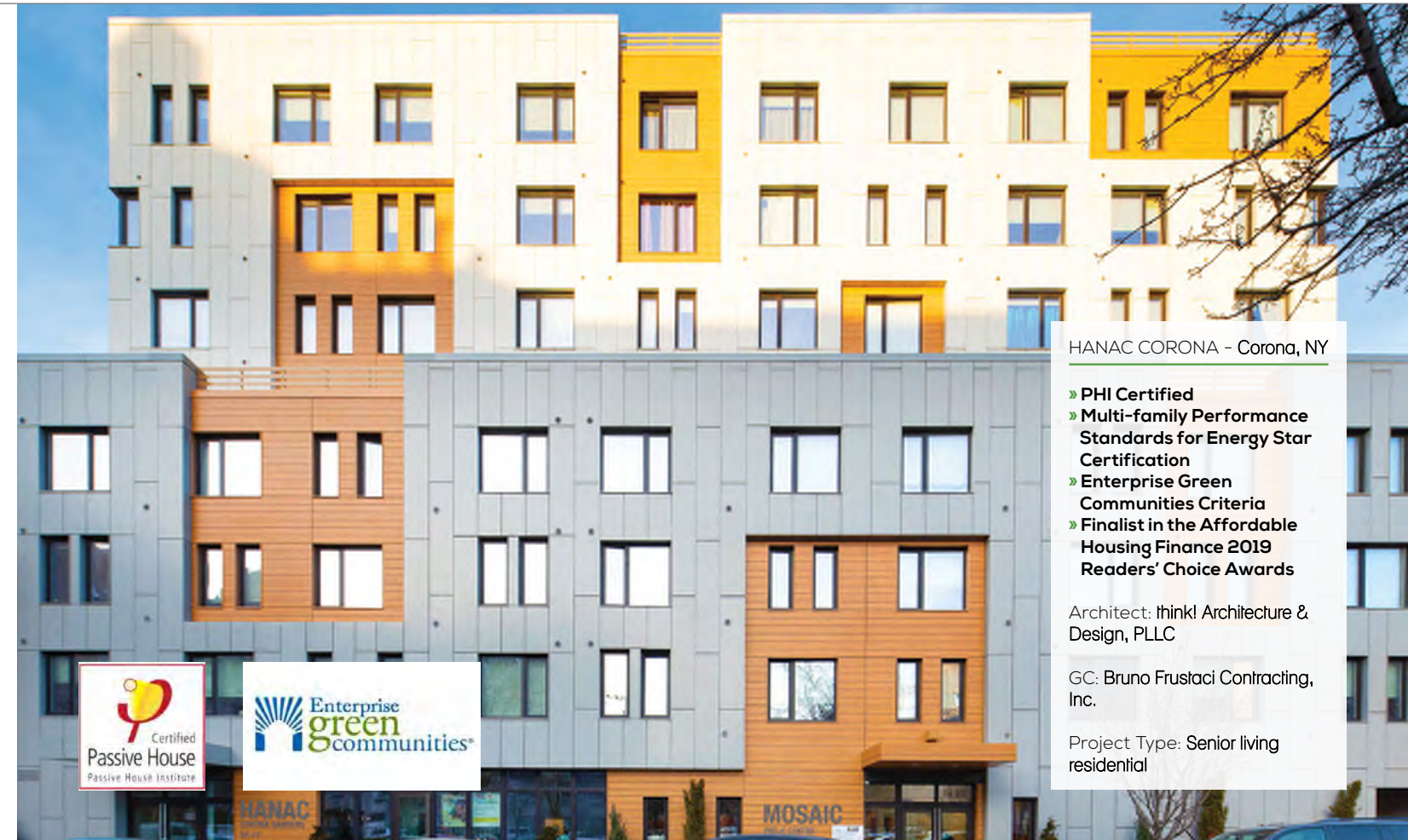
“Passive House” Certified Buildings

Passive House certified buildings meet a set of design principles used to attain a rigorous level of energy efficiency within a specific quantifiable comfort level — or in other words, maximizing gains and minimizing losses.

Passive House Principles	
Windows	Optimized double or triple pane windows to let heat in when desired
Insulation	Thick & continuous insulation to interrupt thermal bridges
Airtight	Airtight construction to stop heat and moisture
Ventilation	Balanced ventilation to ensure fresh air and control moisture
Mechanical	Smaller cooling and heating systems are required



PHIUS projects must also earn the DOE ZERH (Department of Energy – Zero Energy Ready Home) label. This automatically qualifies specific LEED v4 Homes credits and prerequisites.



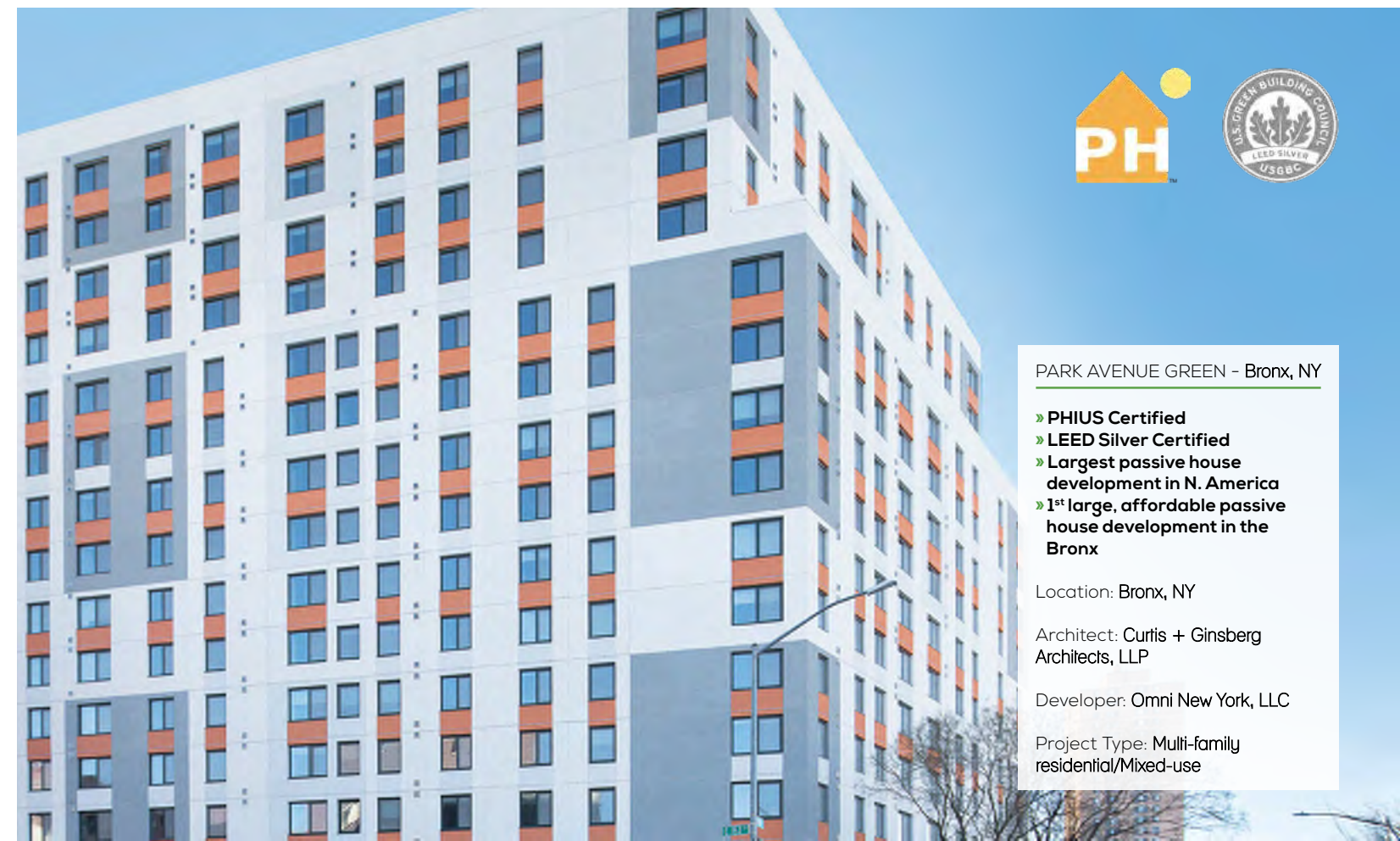
HANAC CORONA - Corona, NY

- » PHI Certified
- » Multi-family Performance Standards for Energy Star Certification
- » Enterprise Green Communities Criteria
- » Finalist in the Affordable Housing Finance 2019 Readers' Choice Awards

Architect: think! Architecture & Design, PLLC

GC: Bruno Frustaci Contracting, Inc.

Project Type: Senior living residential



PARK AVENUE GREEN - Bronx, NY

- » PHIUS Certified
- » LEED Silver Certified
- » Largest passive house development in N. America
- » 1st large, affordable passive house development in the Bronx

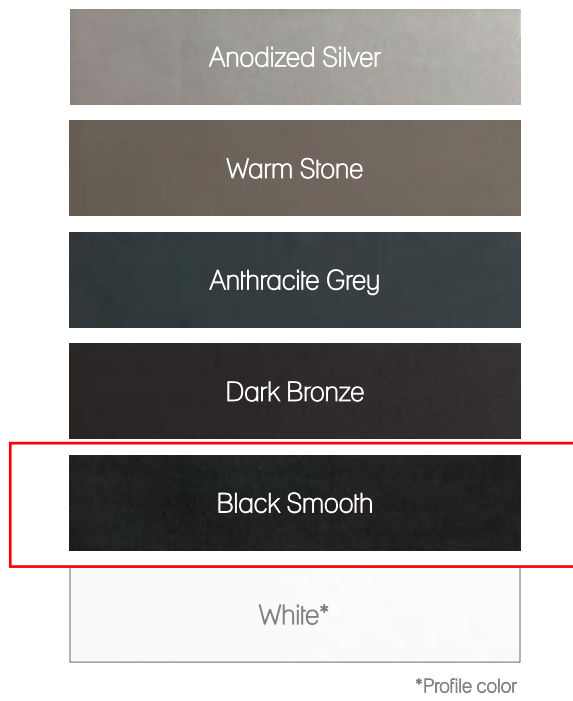
Location: Bronx, NY

Architect: Curtis + Ginsberg Architects, LLP

Developer: Omni New York, LLC

Project Type: Multi-family residential/Mixed-use

Standard Exterior/Interior Colors*



RENOLIT EXOFOL FX Laminate Finishes

INTUS exclusively uses RENOLIT EXOFOL FX finishes designed specifically for North American climate zones. They perform at AAMA 2605 quality guidelines or better.

Diagram showing the structure of the exterior film RENOLIT EXOFOL FX



US Irradiation Map
W.hr/sq. in. per day (1.0 = 1,000)

6.5 - 7.0	4.5 - 5.0	2.5 - 3.0
6.0 - 6.5	4.0 - 4.5	2.0 - 2.5
5.5 - 6.0	3.5 - 4.0	1.5 - 2.0
5.0 - 5.5	3.0 - 3.5	1.0 - 1.5



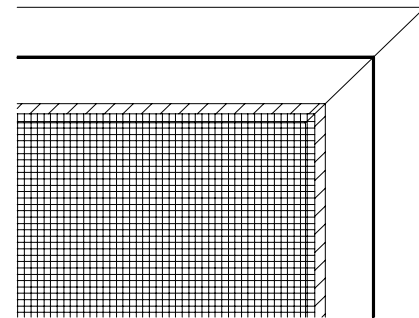
ACCESSORIES

* Additional colors and split finishes available upon request. Finish color availability is subject to change; please consult a team representative for availability status.

Handles



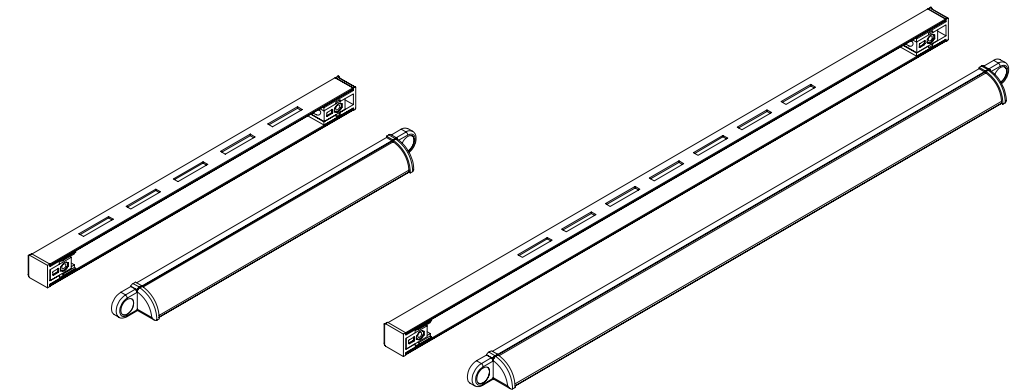
Screens



Decorative Grids



Trickle Vents

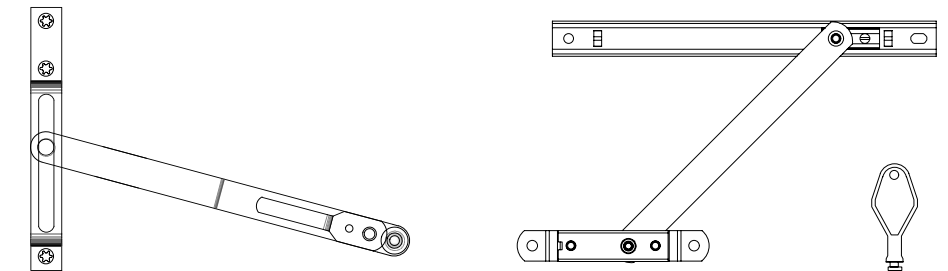


Limiters

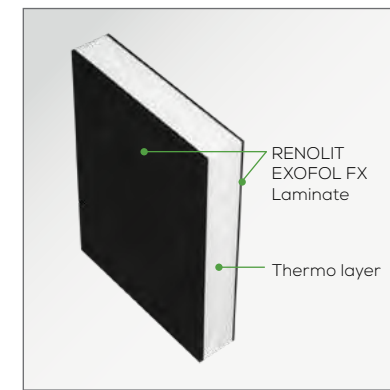


- 4" Limiter with Friction (Standard)
- 4" Limiter without Friction (Standard)

- 4" Limiter with Friction (Approved by NYC DOH)

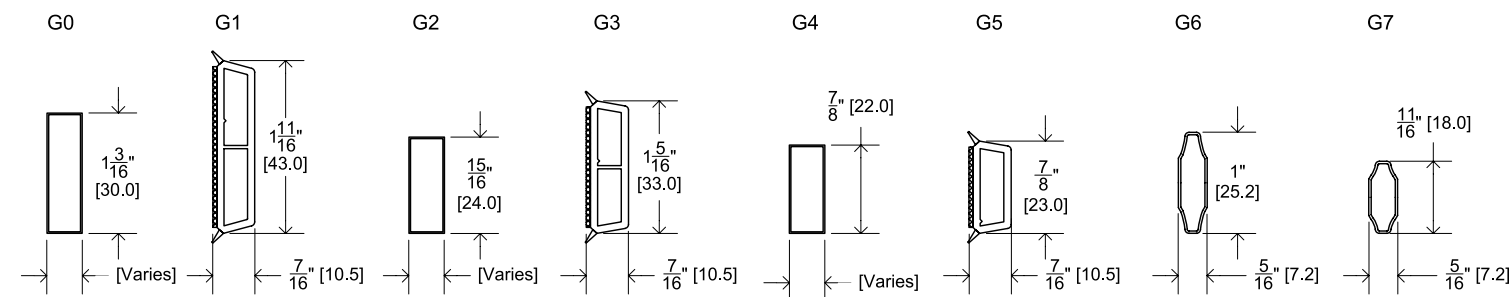
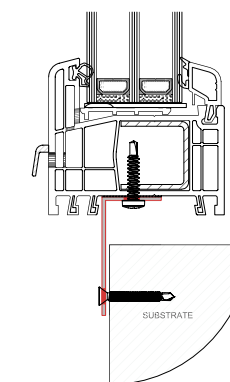
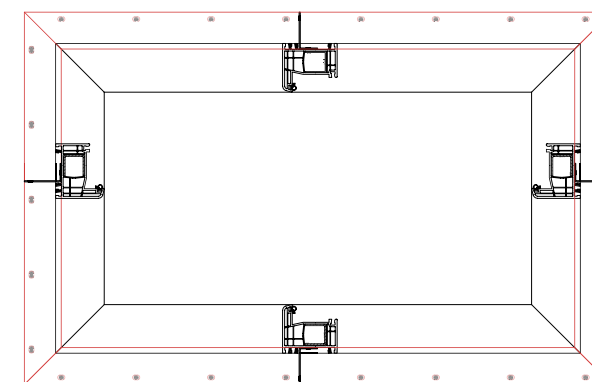


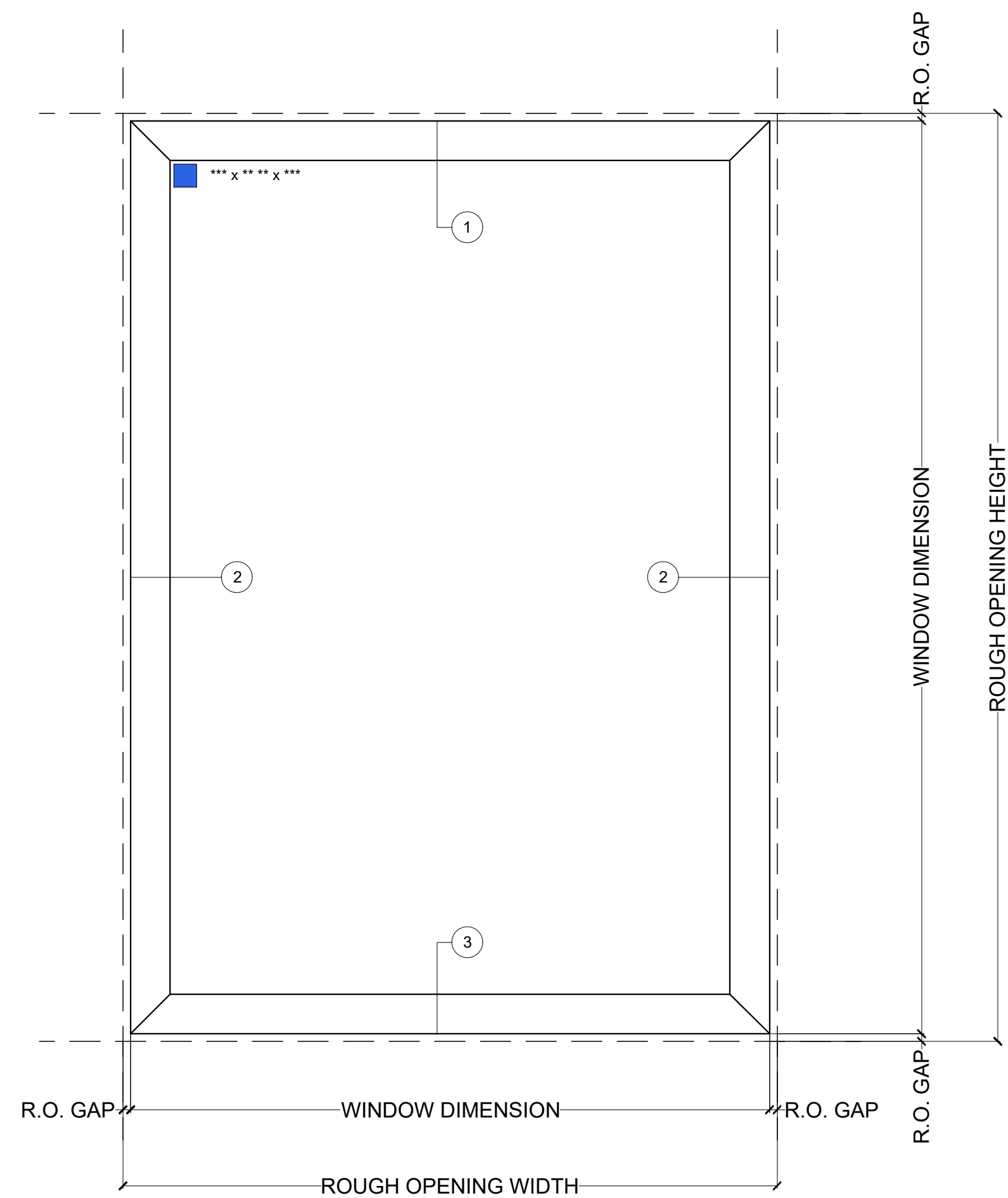
Insulated Filler Panels



- Able to be matched to all INTUS interior/exterior finish colors
- PVC-hardened layer:
 - Impact resistant
 - UV resistant
 - Moisture resistant
- Thermo layer (extruded polystyrene foam):
 - Long-lasting
 - Homogenous
 - Moisture resistant

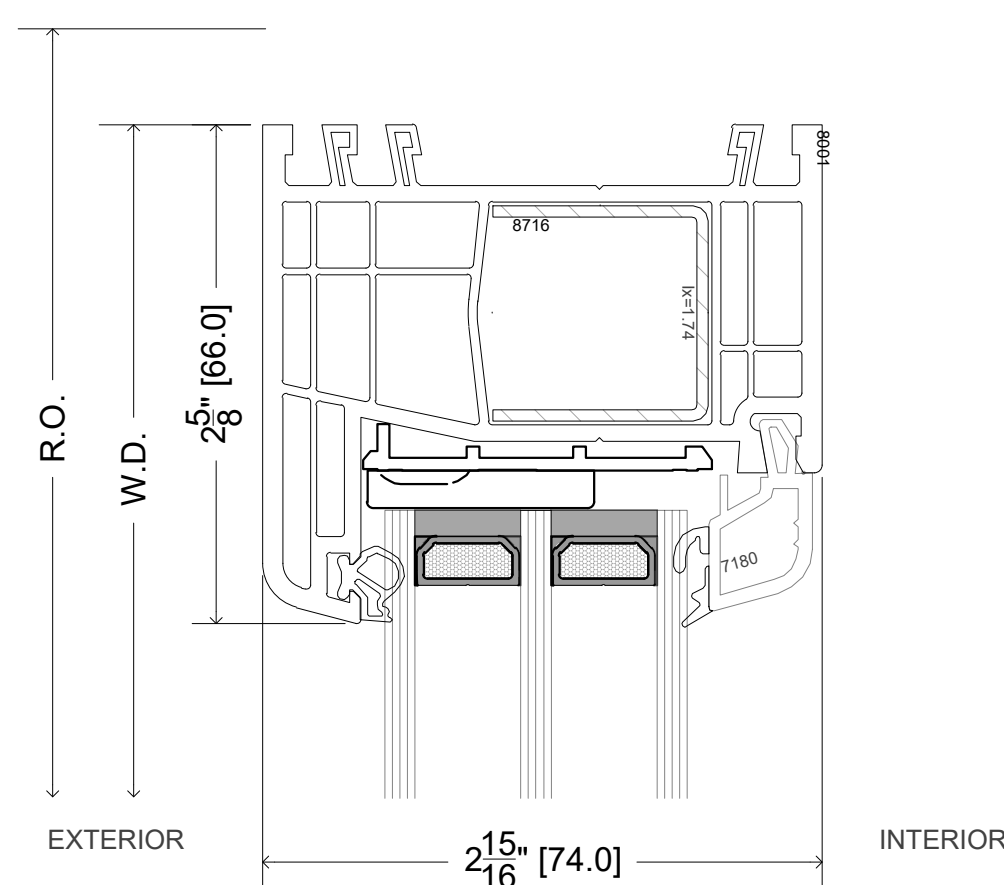
Aluminum Flanges



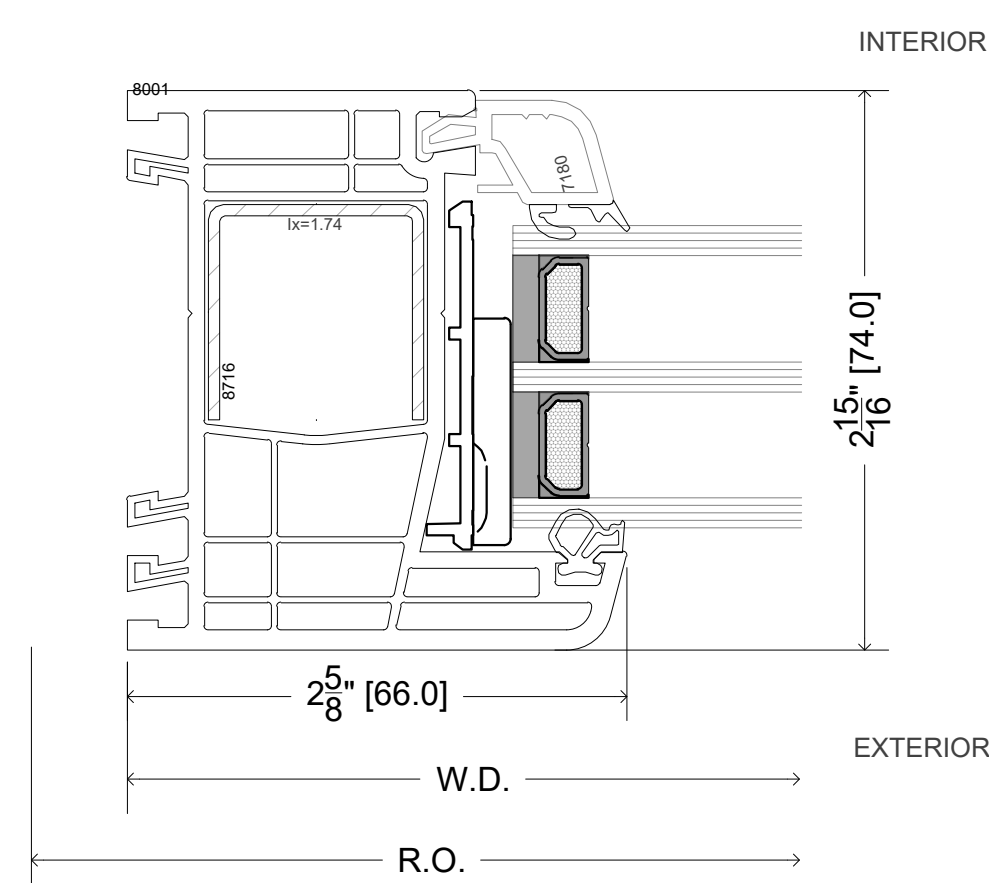


CW FIXED WINDOW

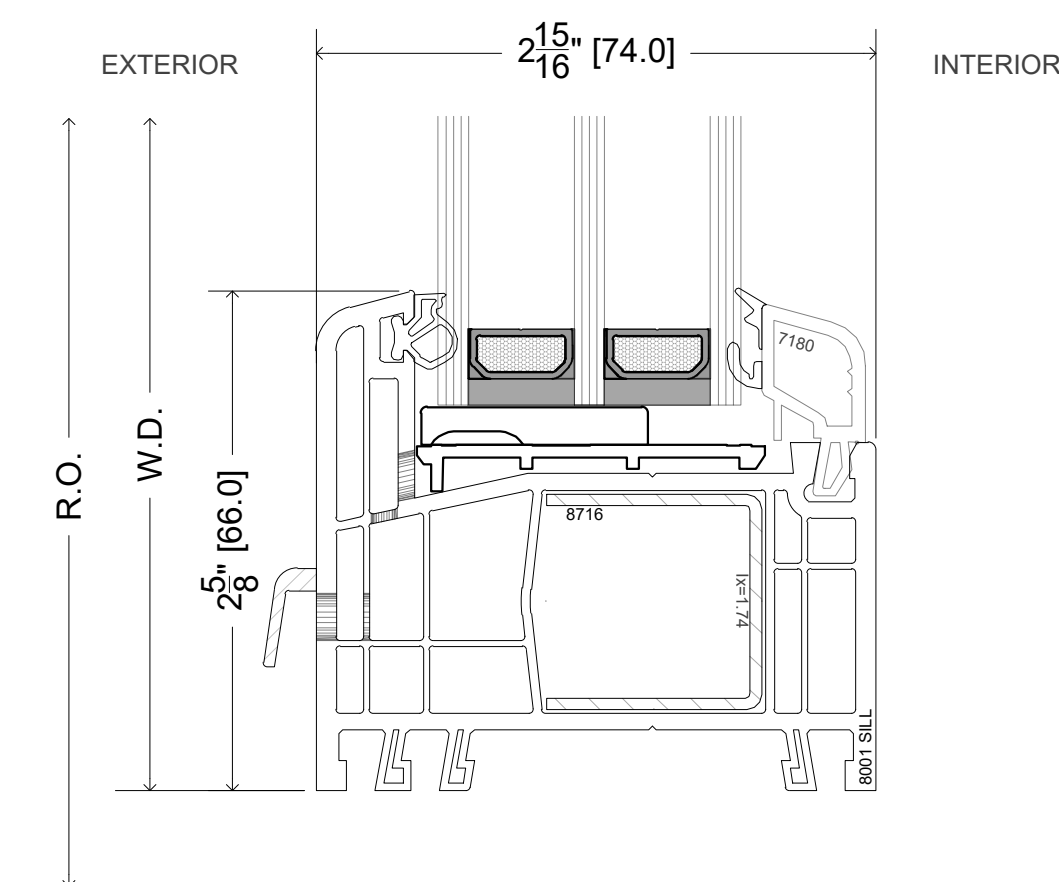
SCALE 1 1/2" = 1'-0"



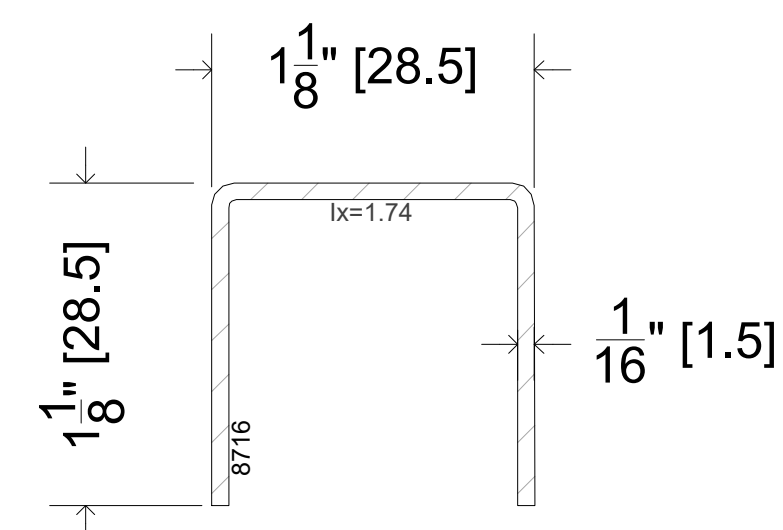
1 FIXED WINDOW SECTION PROFILE @ HEAD
SCALE 1'-0" = 1'-0"



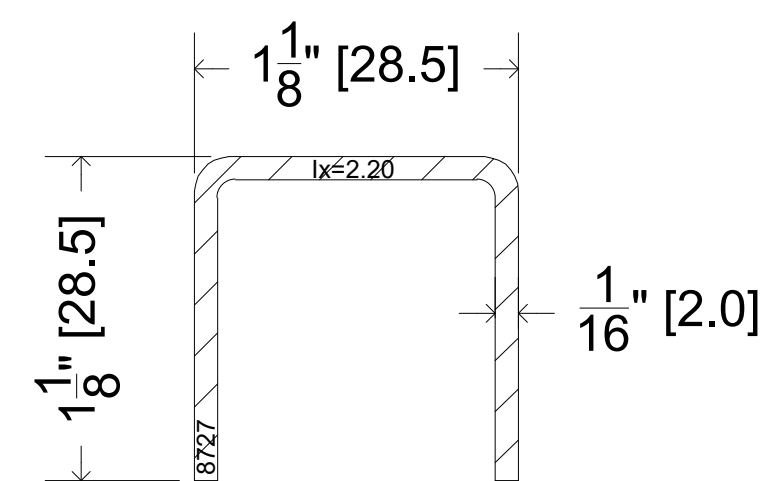
2 FIXED WINDOW SECTION PROFILE @ JAMB
SCALE 1'-0" = 1'-0"



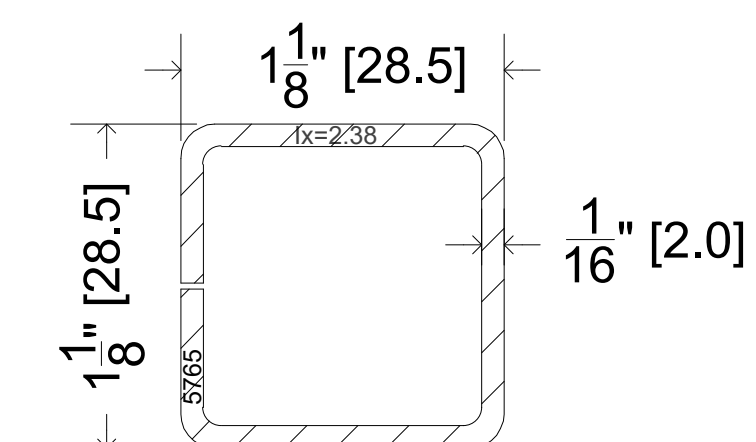
3 FIXED WINDOW SECTION PROFILE @ SILL
SCALE 1'-0" = 1'-0"



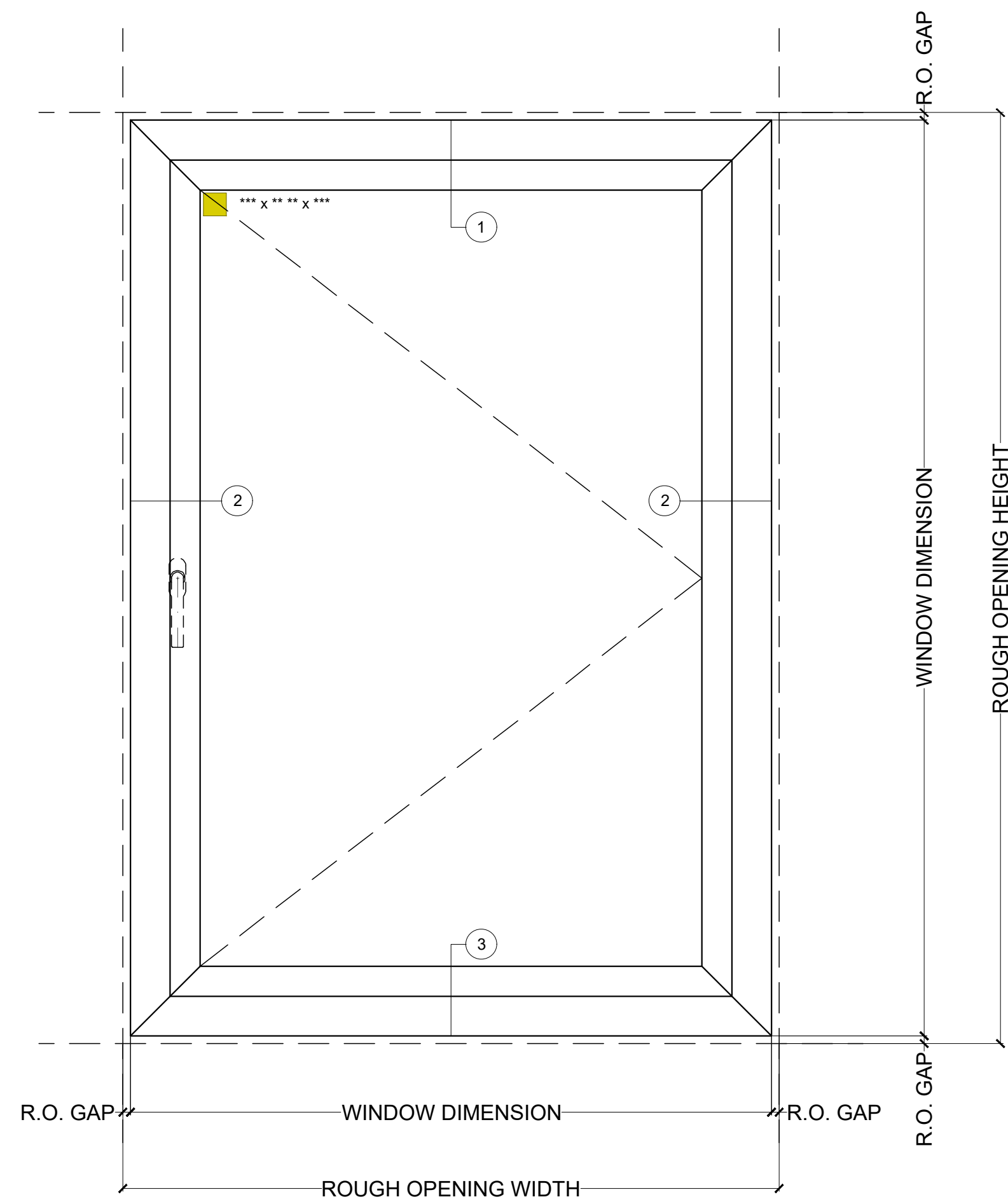
STD. STEEL REINFORCEMENT 8716 @ FRAME
SCALE 1'-6" = 1'-0"



STEEL REINFORCEMENT 8727 @ FRAME
SCALE 1'-6" = 1'-0"

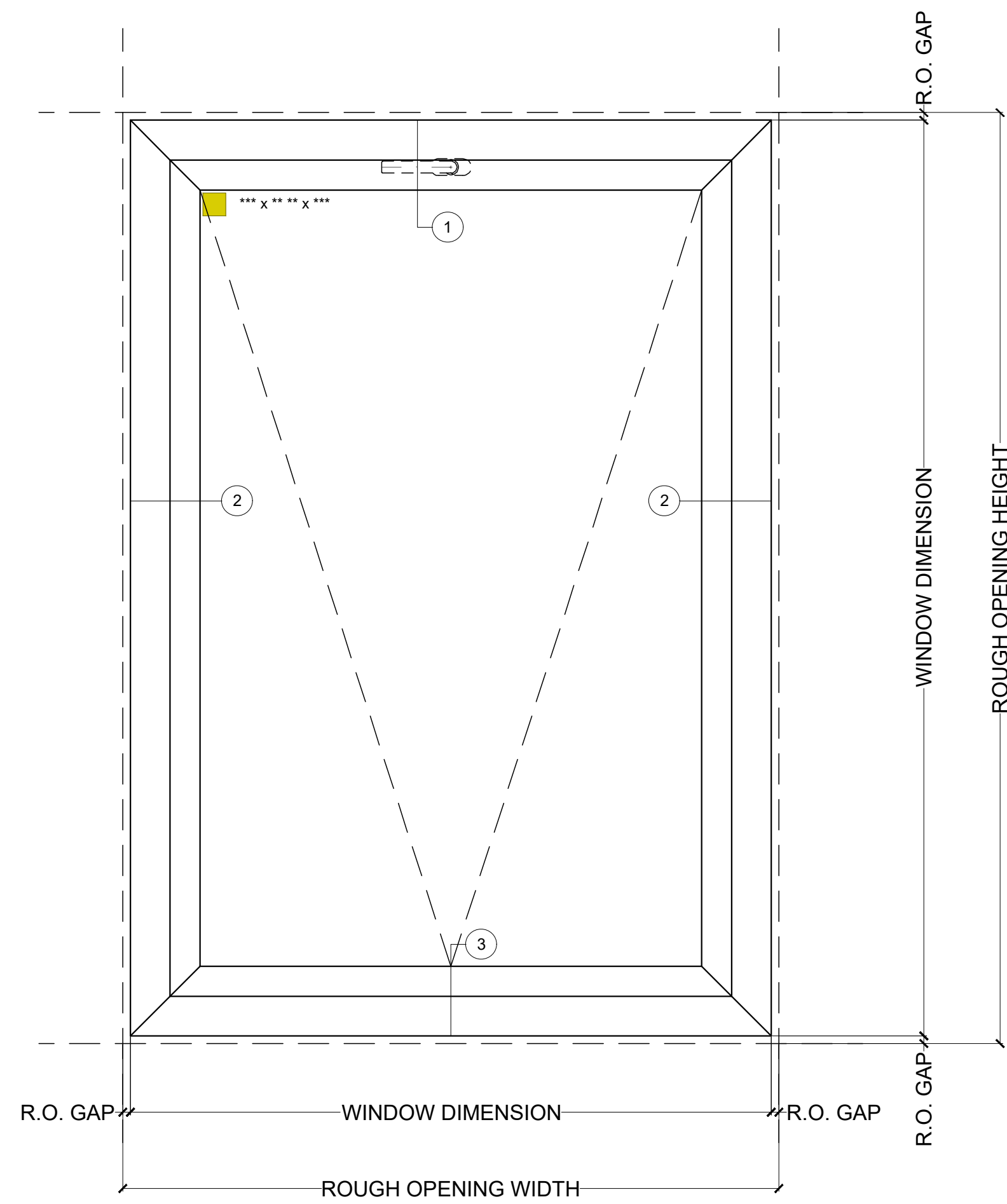


STEEL REINFORCEMENT 5765 @ FRAME
SCALE 1'-6" = 1'-0"



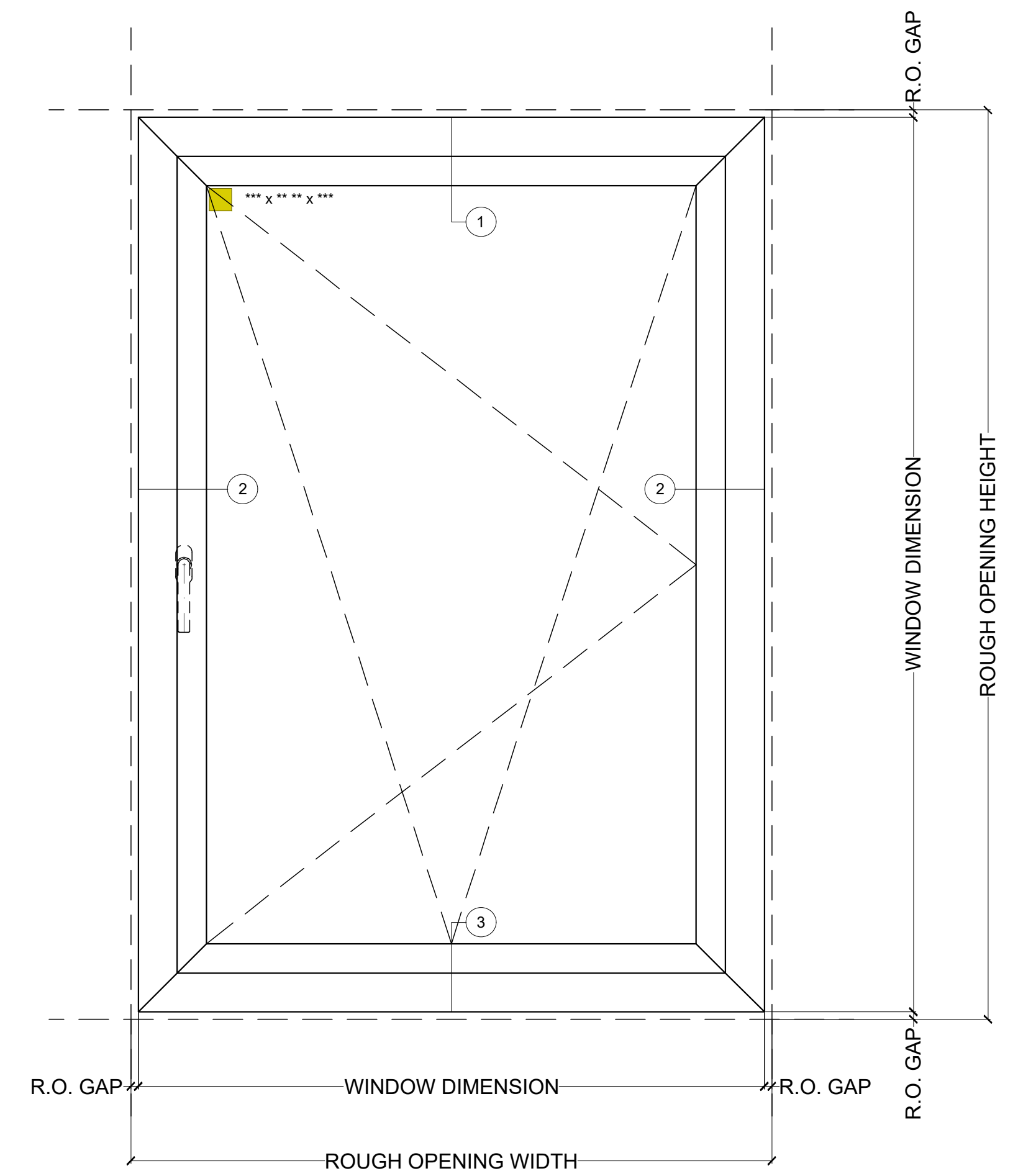
CW CASEMENT WINDOW

SCALE 1 1/2" = 1'-0"



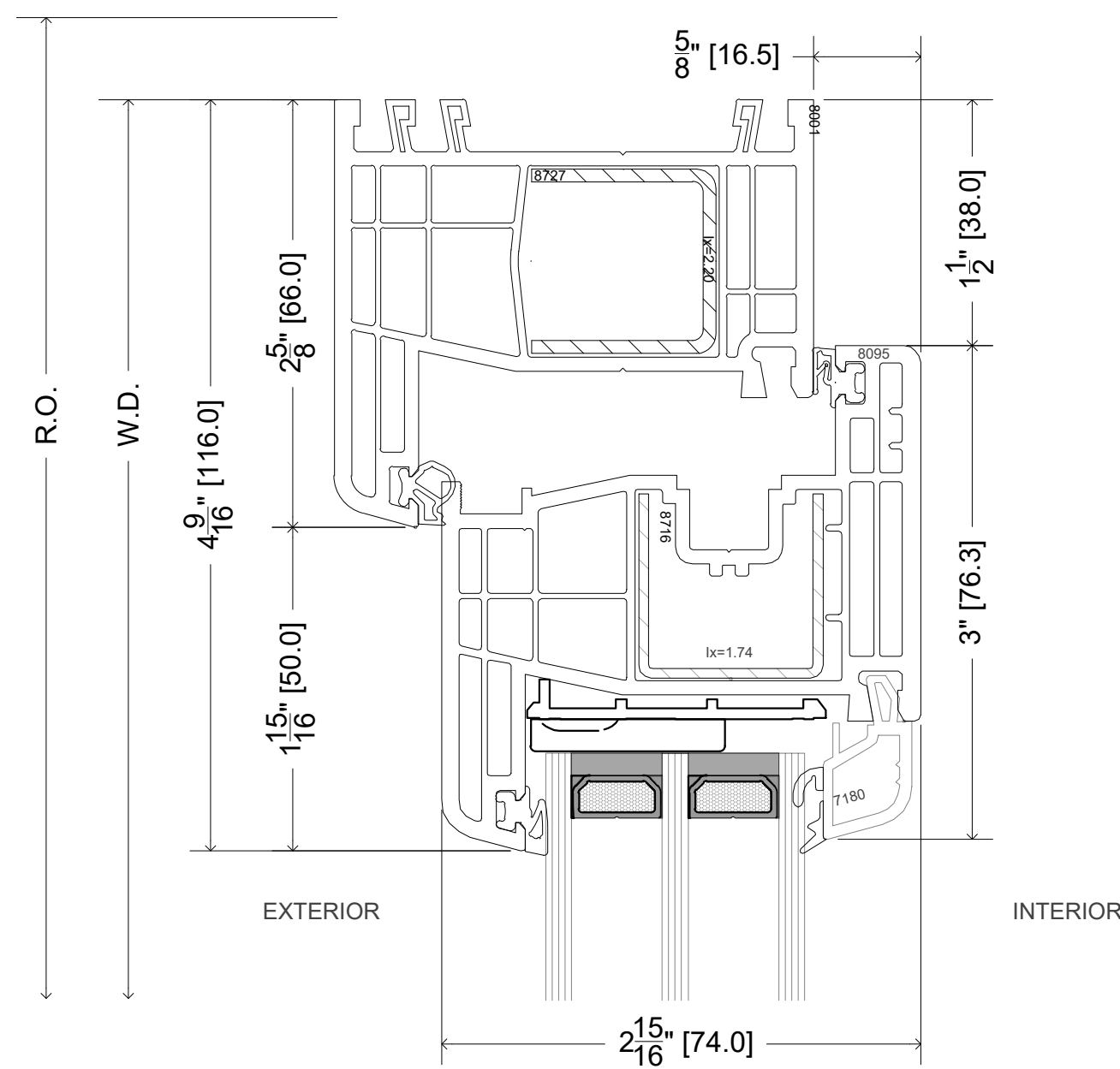
CW HOPPER WINDOW

SCALE 1 1/2" = 1'-0"

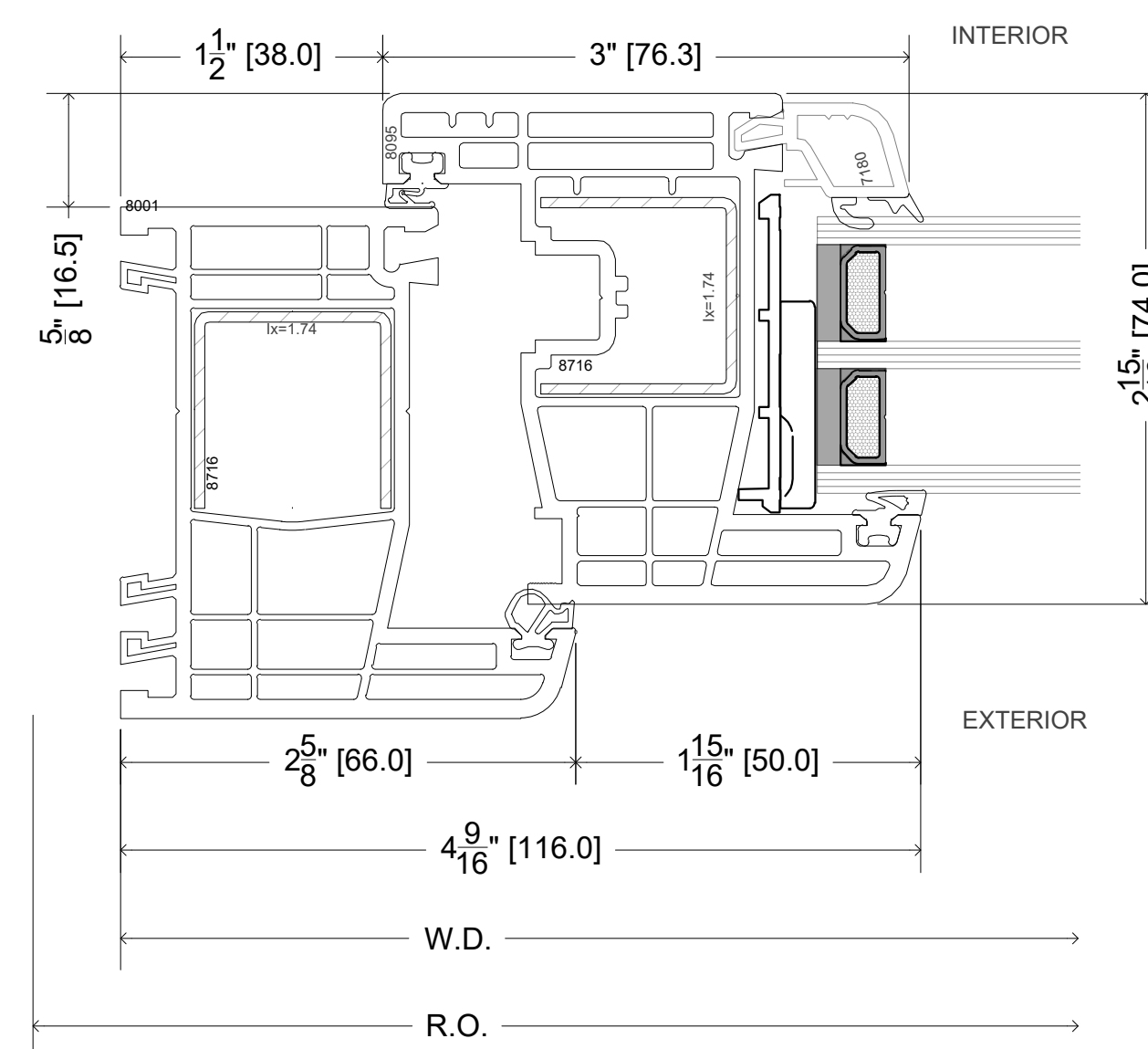


CW DUAL ACTION WINDOW

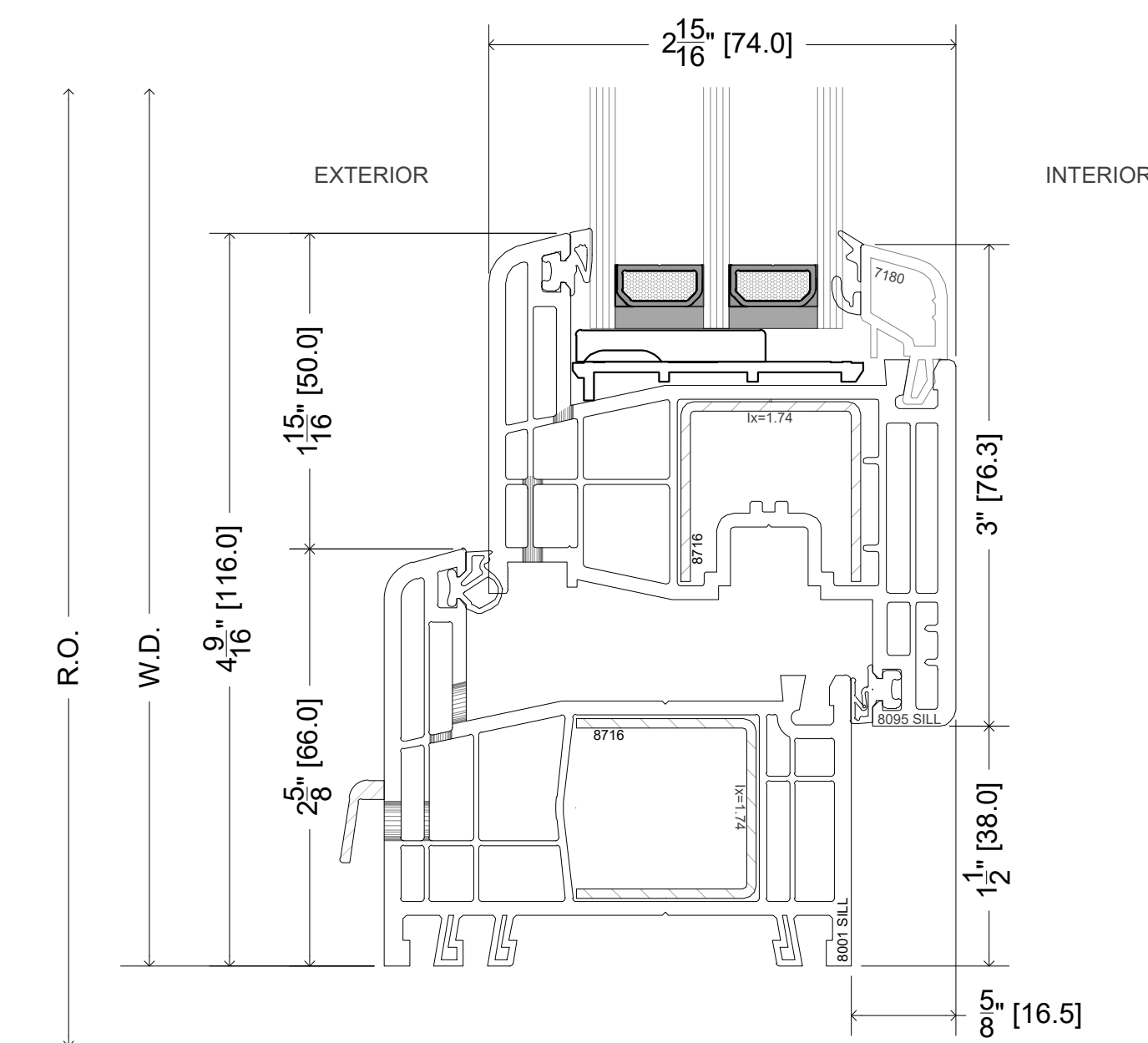
SCALE 1 1/2" = 1'-0"



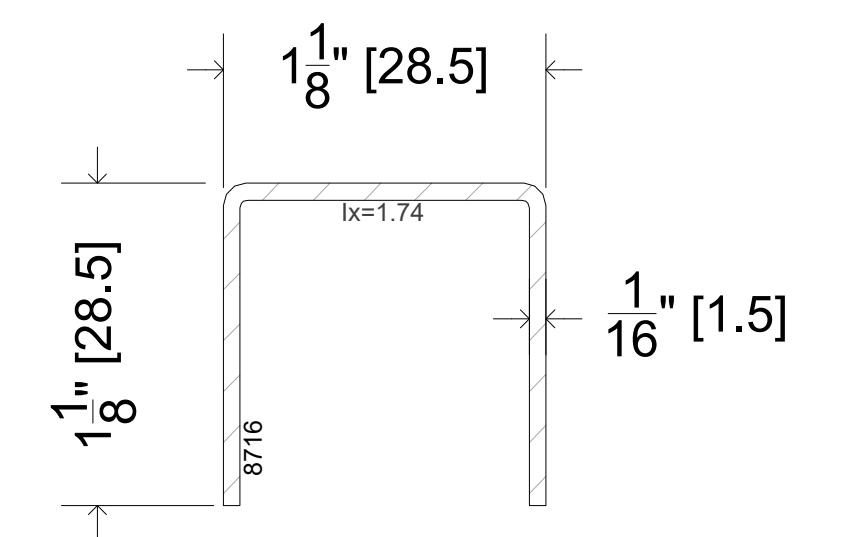
1 OPERABLE WINDOW SECTION PROFILE @ HEAD
SCALE 1'-0" = 1'-0"



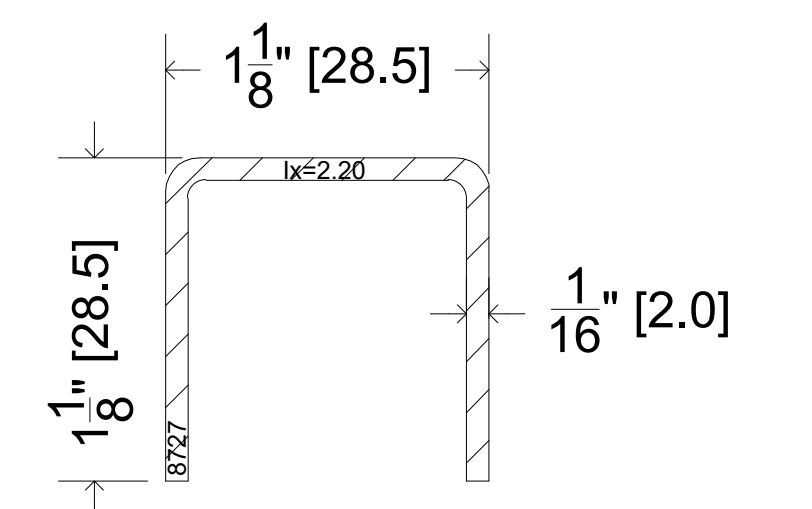
2 OPERABLE WINDOW SECTION PROFILE @ JAMB
SCALE 1'-0" = 1'-0"



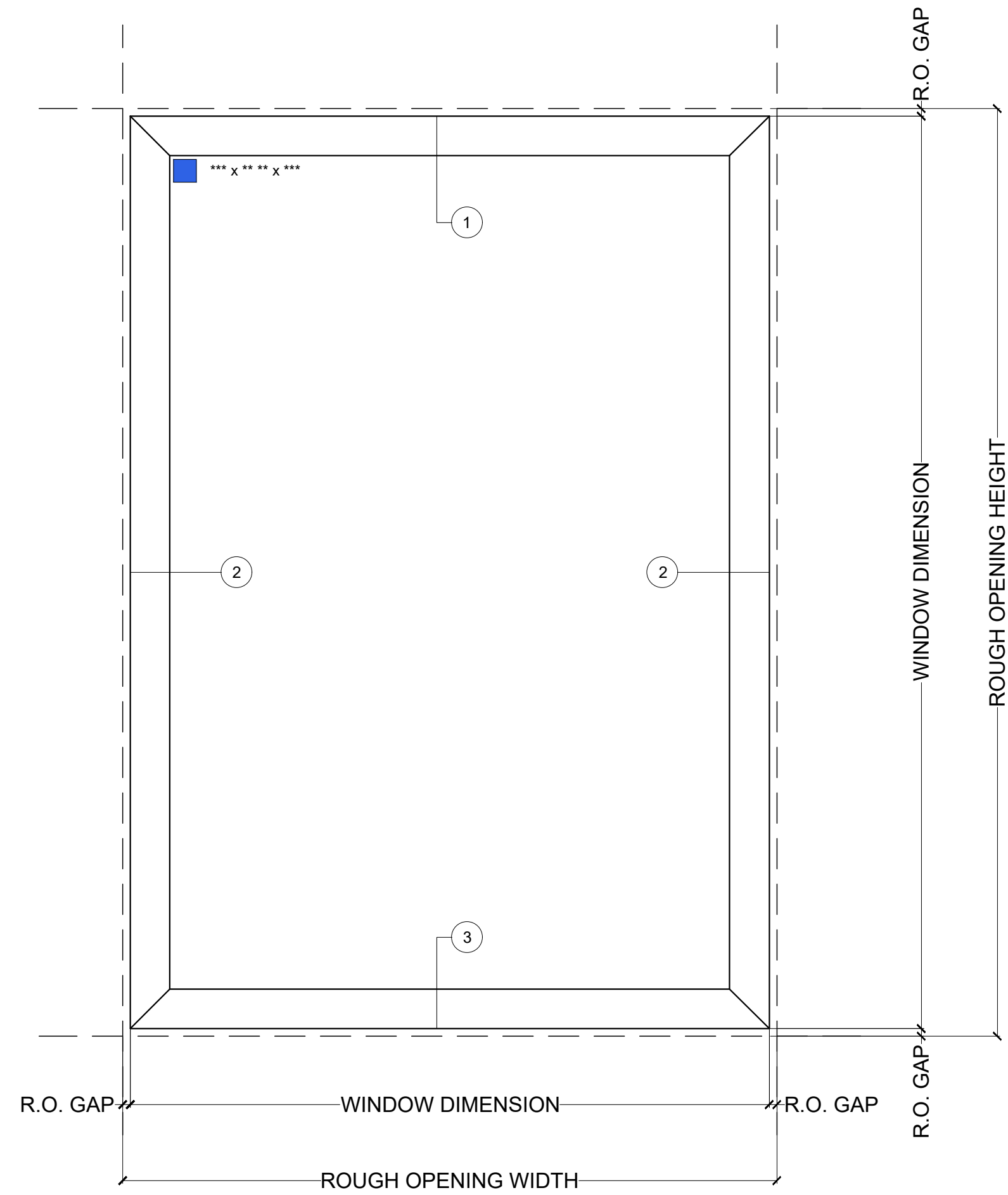
3 OPERABLE WINDOW SECTION PROFILE @ SILL
SCALE 1'-0" = 1'-0"



STD. STEEL REINFORCEMENT 8716 @ SASH
SCALE 1'-6" = 1'-0"

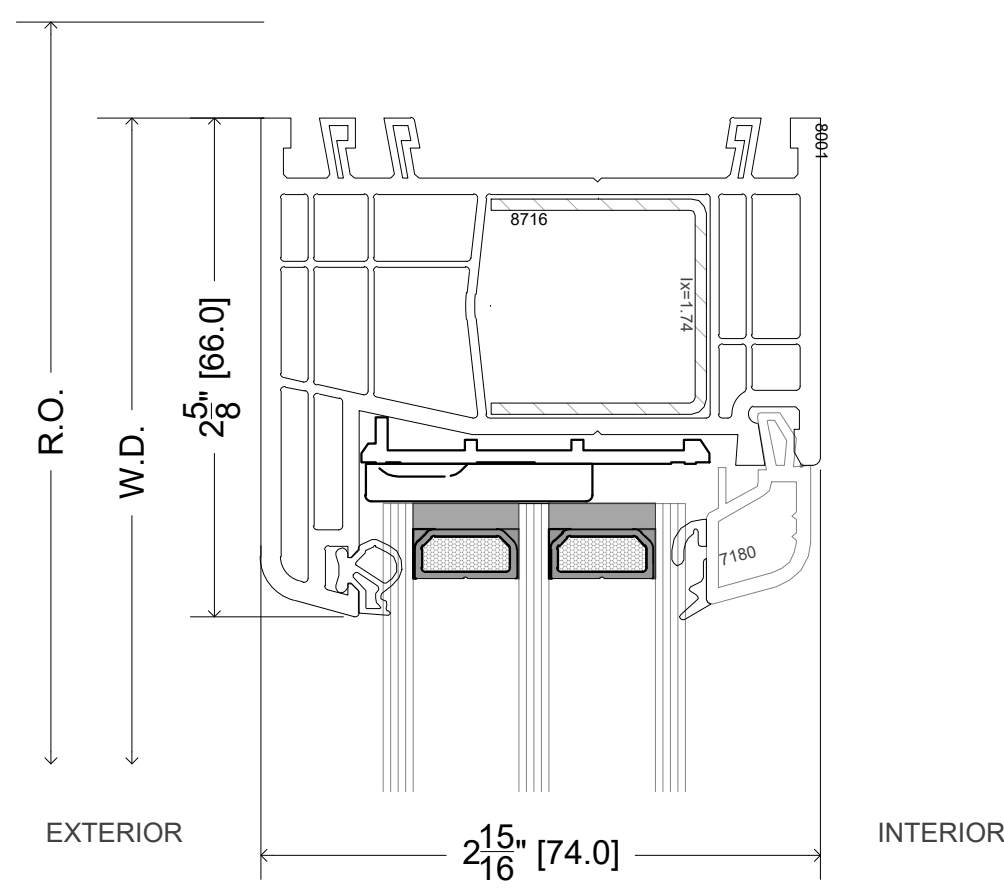


STEEL REINFORCEMENT 8727 @ SASH
SCALE 1'-6" = 1'-0"

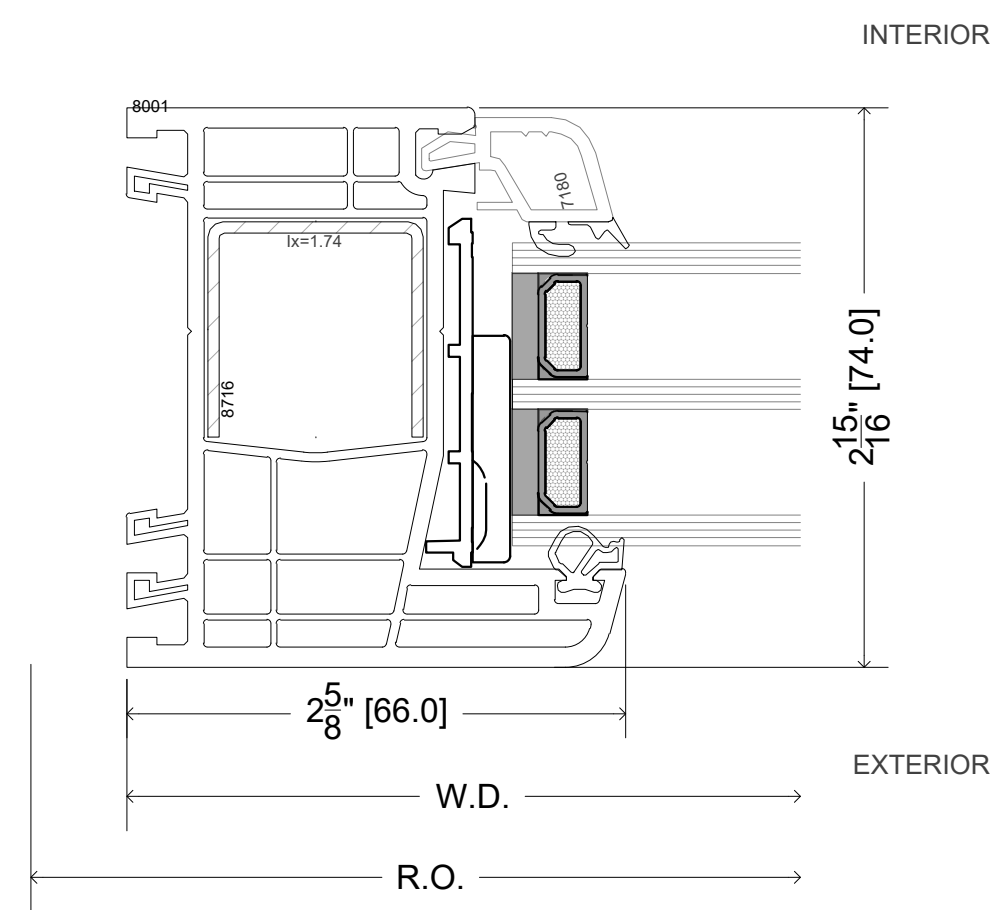


AW FIXED WINDOW

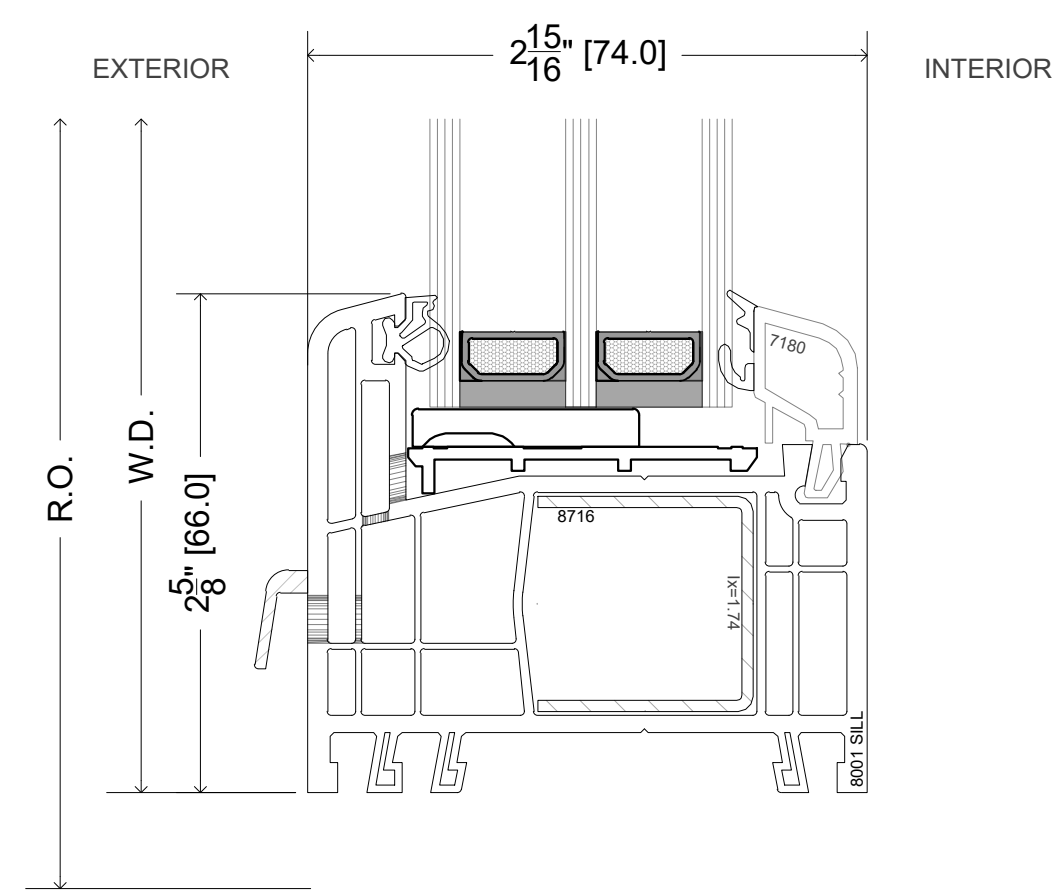
SCALE $1 \frac{1}{2}'' = 1'-0''$



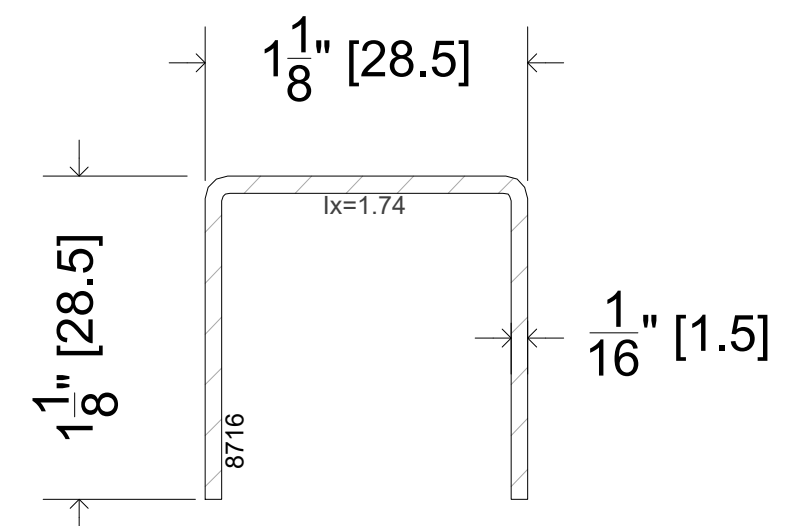
1 FIXED WINDOW SECTION PROFILE @ HEAD
SCALE $1'-0'' = 1'-0''$



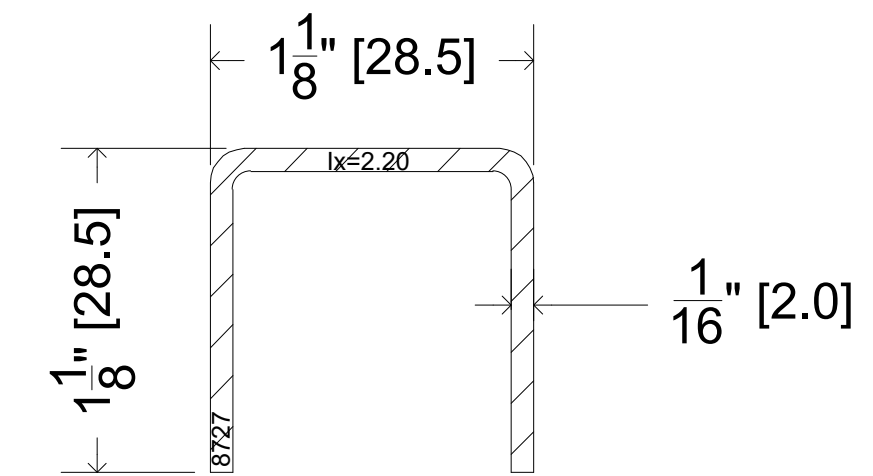
2 FIXED WINDOW SECTION PROFILE @ JAMB
SCALE $1'-0'' = 1'-0''$



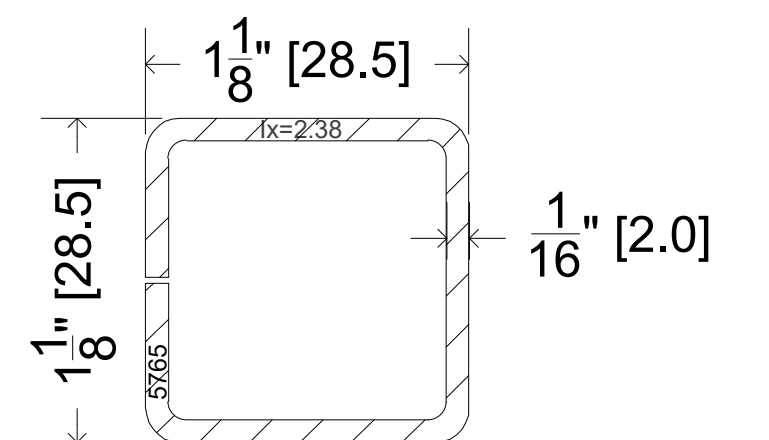
3 FIXED WINDOW SECTION PROFILE @ SILL
SCALE $1'-0'' = 1'-0''$



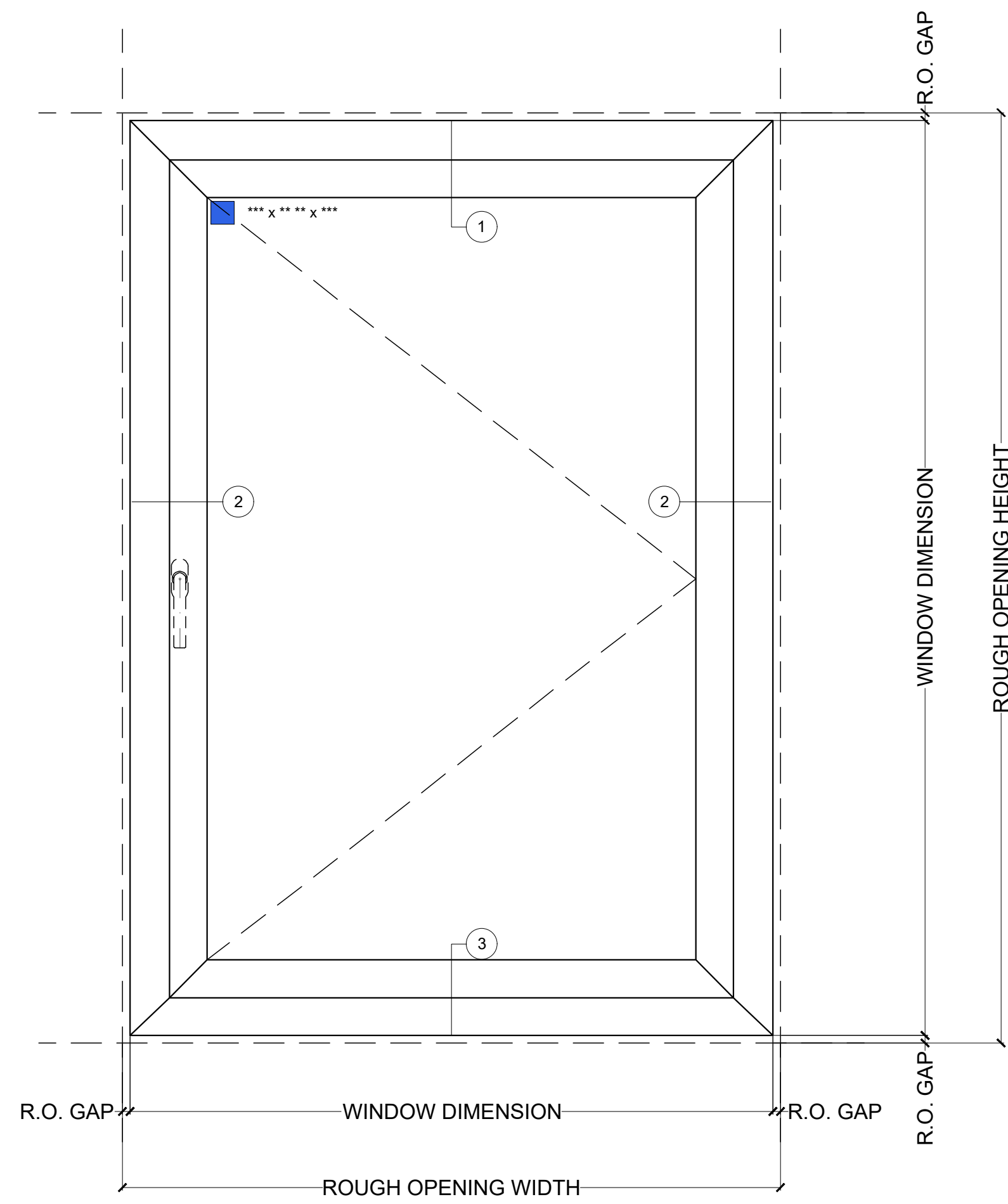
STD. STEEL REINFORCEMENT 8716 @ FRAME
SCALE $1'-6'' = 1'-0''$



STEEL REINFORCEMENT 8727 @ FRAME
SCALE $1'-6'' = 1'-0''$

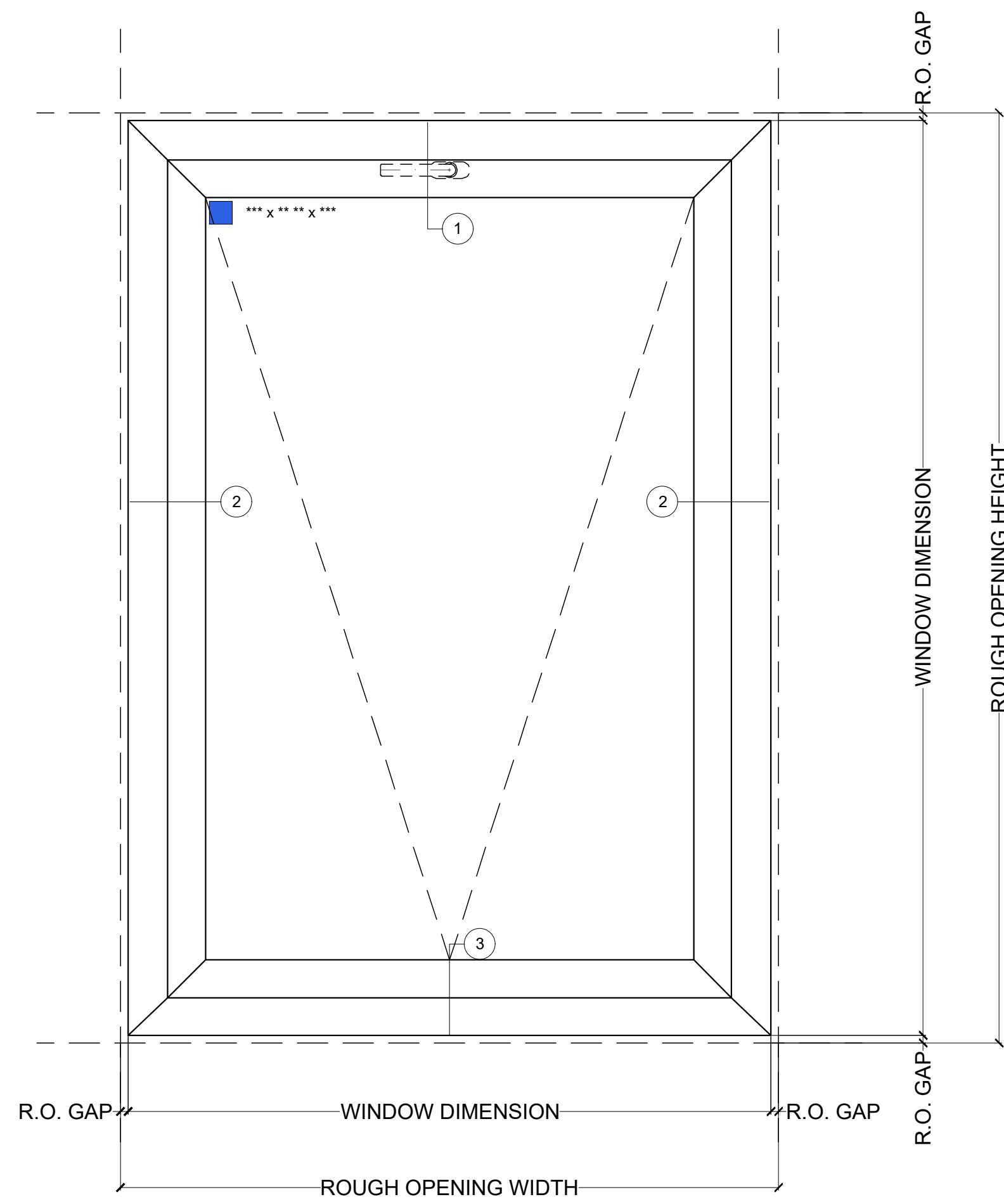


STEEL REINFORCEMENT 5765 @ FRAME
SCALE $1'-6'' = 1'-0''$



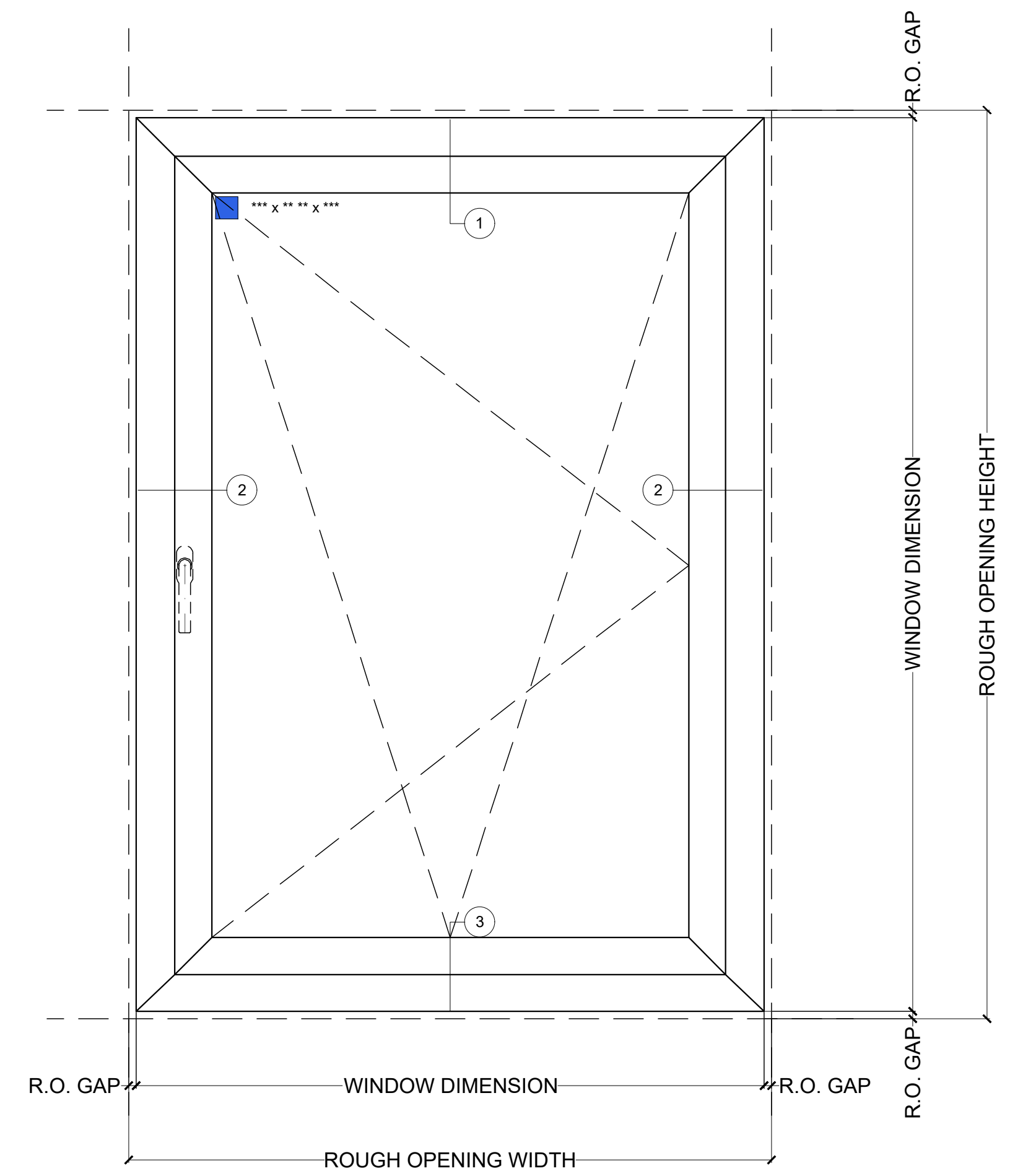
AW CASEMENT WINDOW

SCALE 1/2" = 1'-0"



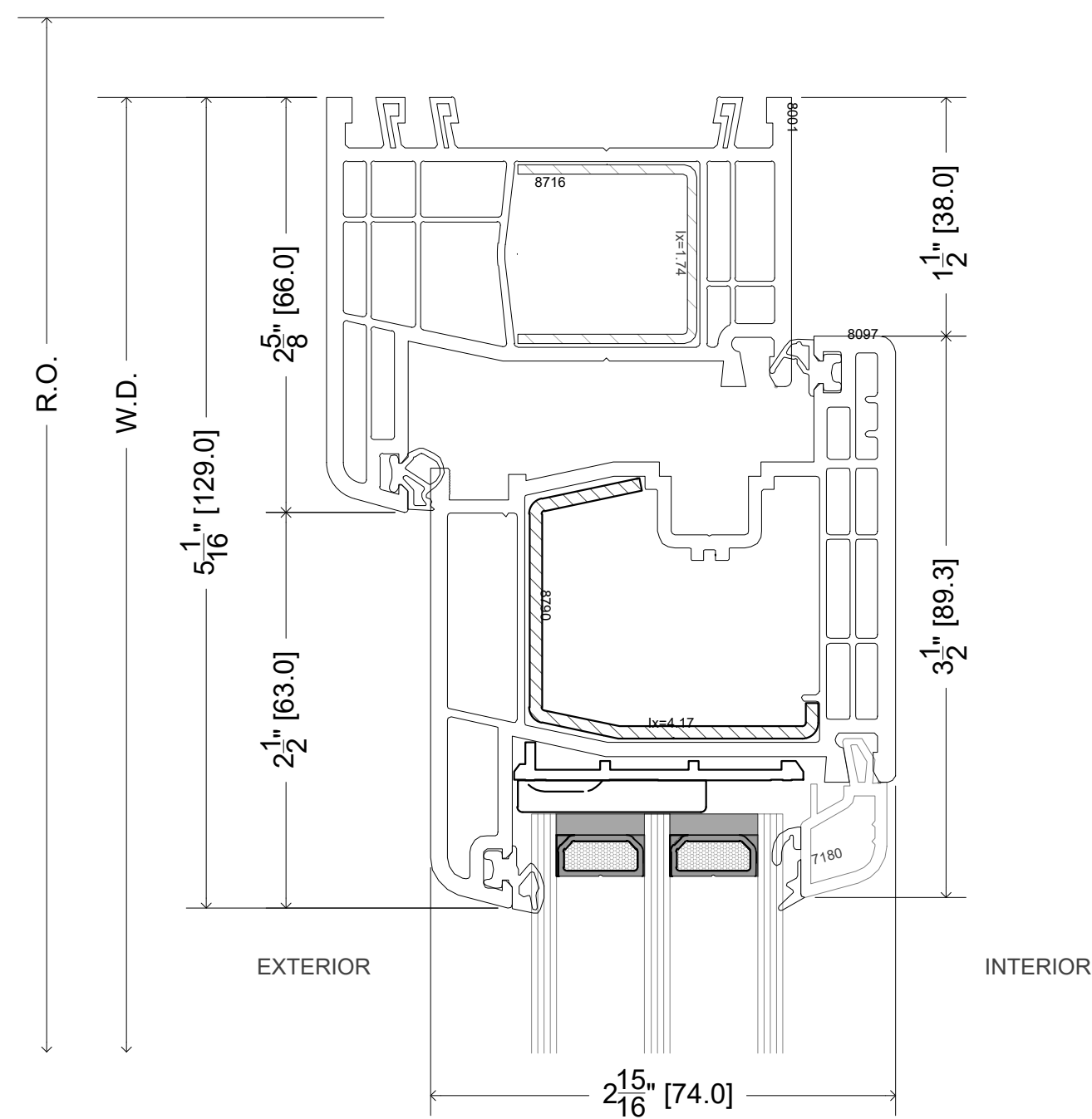
AW HOPPER WINDOW

SCALE 1/2" = 1'-0"



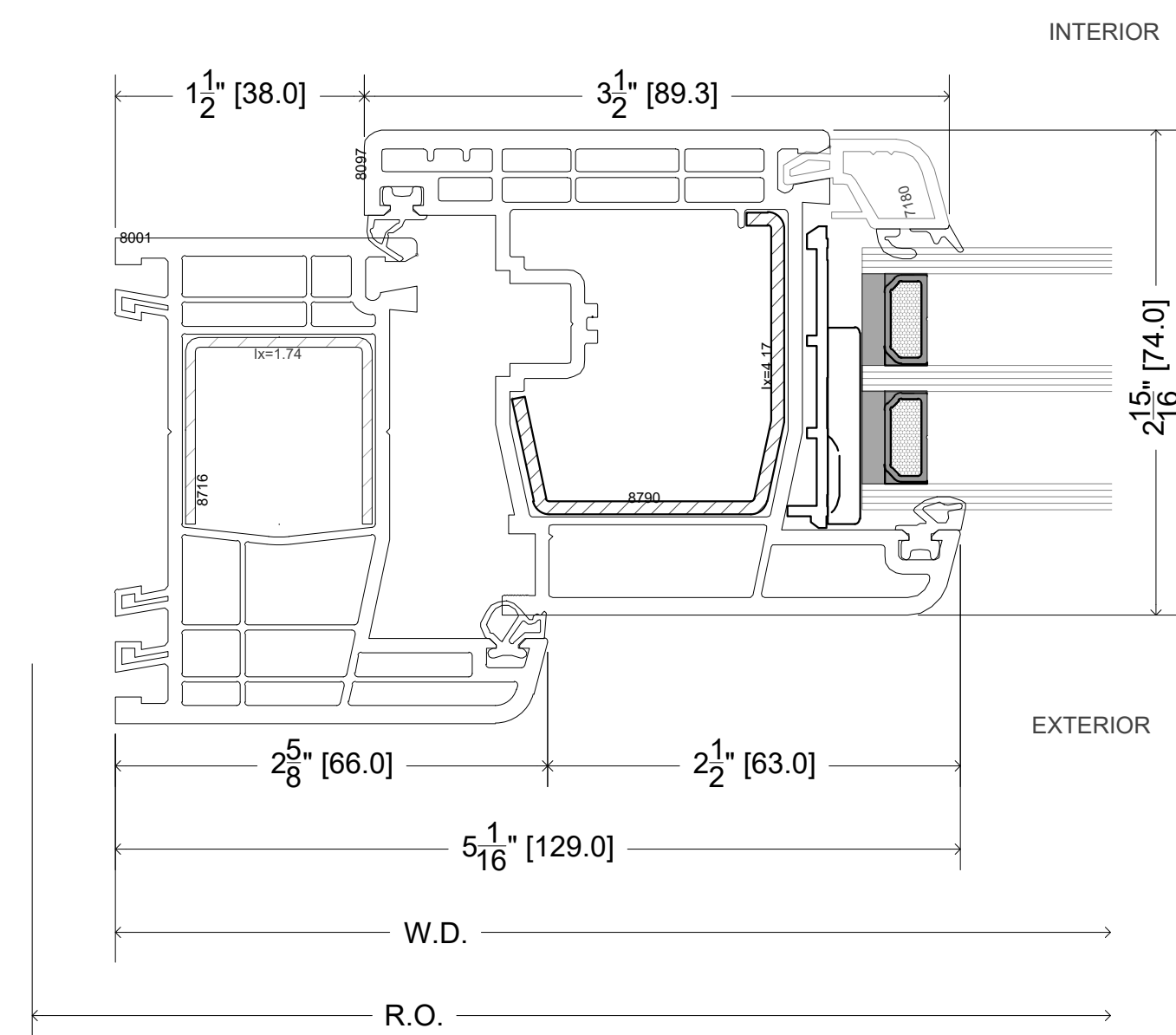
AW DUAL ACTION WINDOW

SCALE 1/2" = 1'-0"



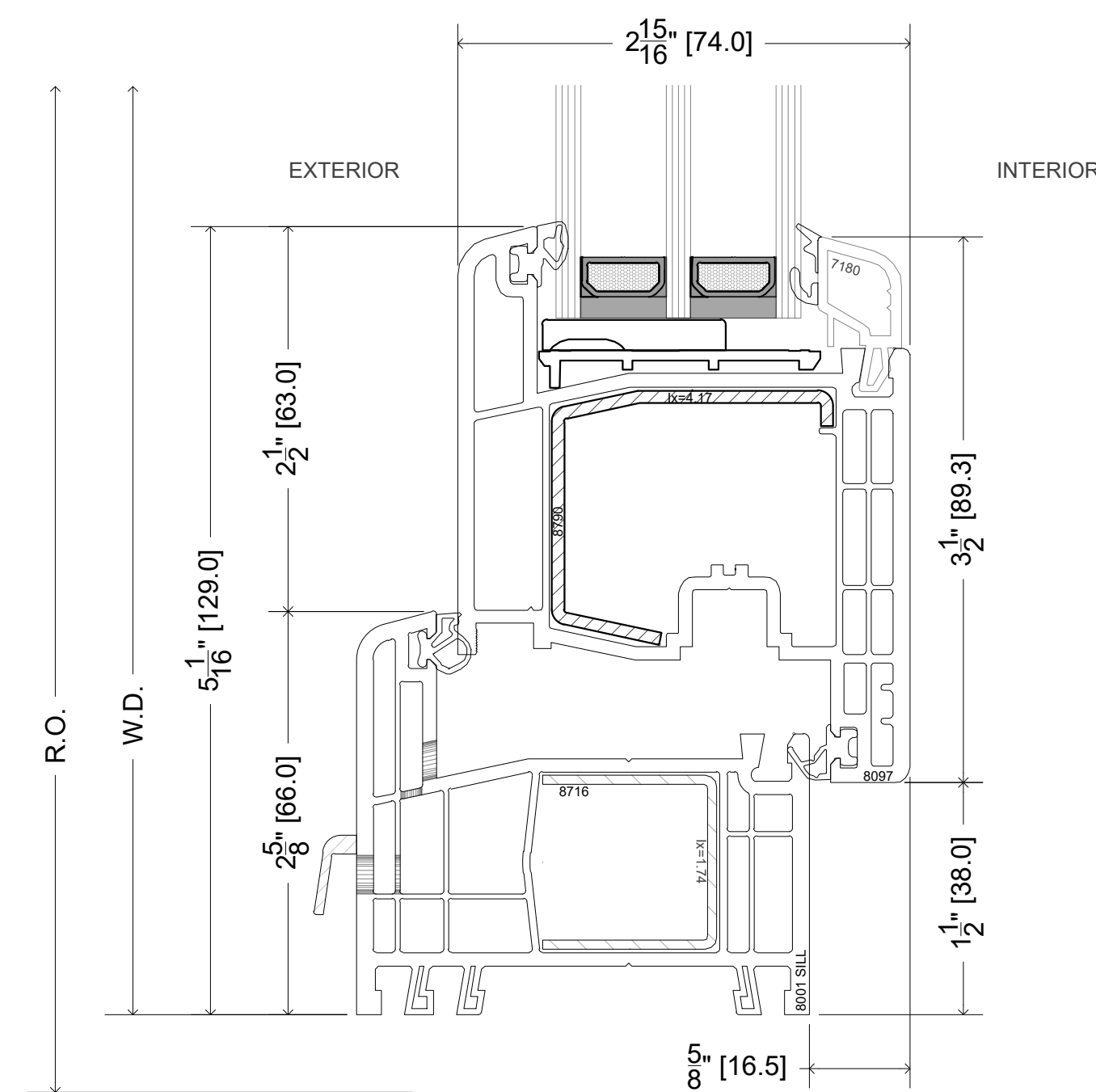
1 OPERABLE WINDOW SECTION PROFILE @ HEAD

SCALE 1'-0" = 1'-0"



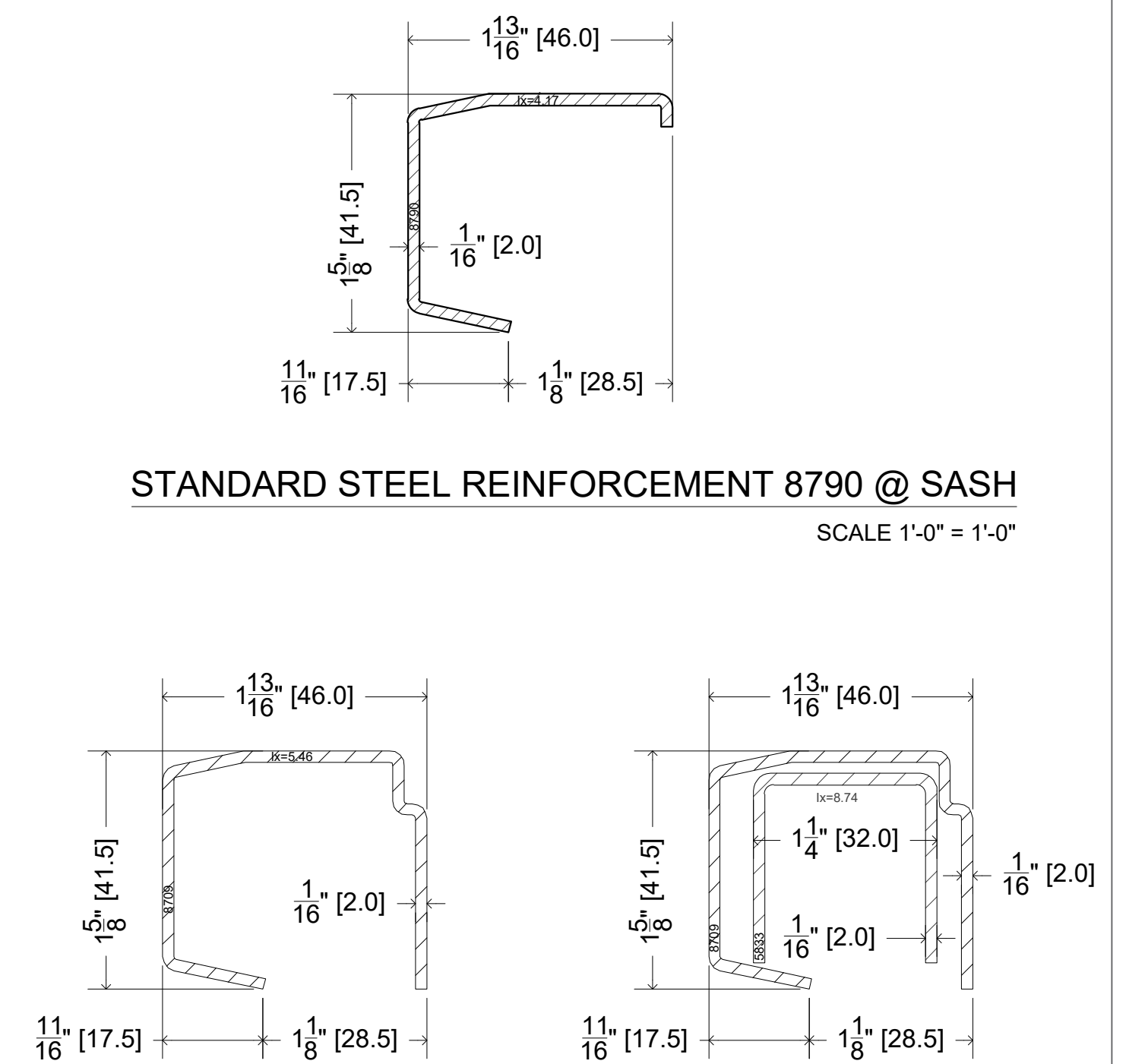
2 OPERABLE WINDOW SECTION PROFILE @ JAMB

SCALE 1'-0" = 1'-0"



3 OPERABLE WINDOW SECTION PROFILE @ SILL

SCALE 1'-0" = 1'-0"

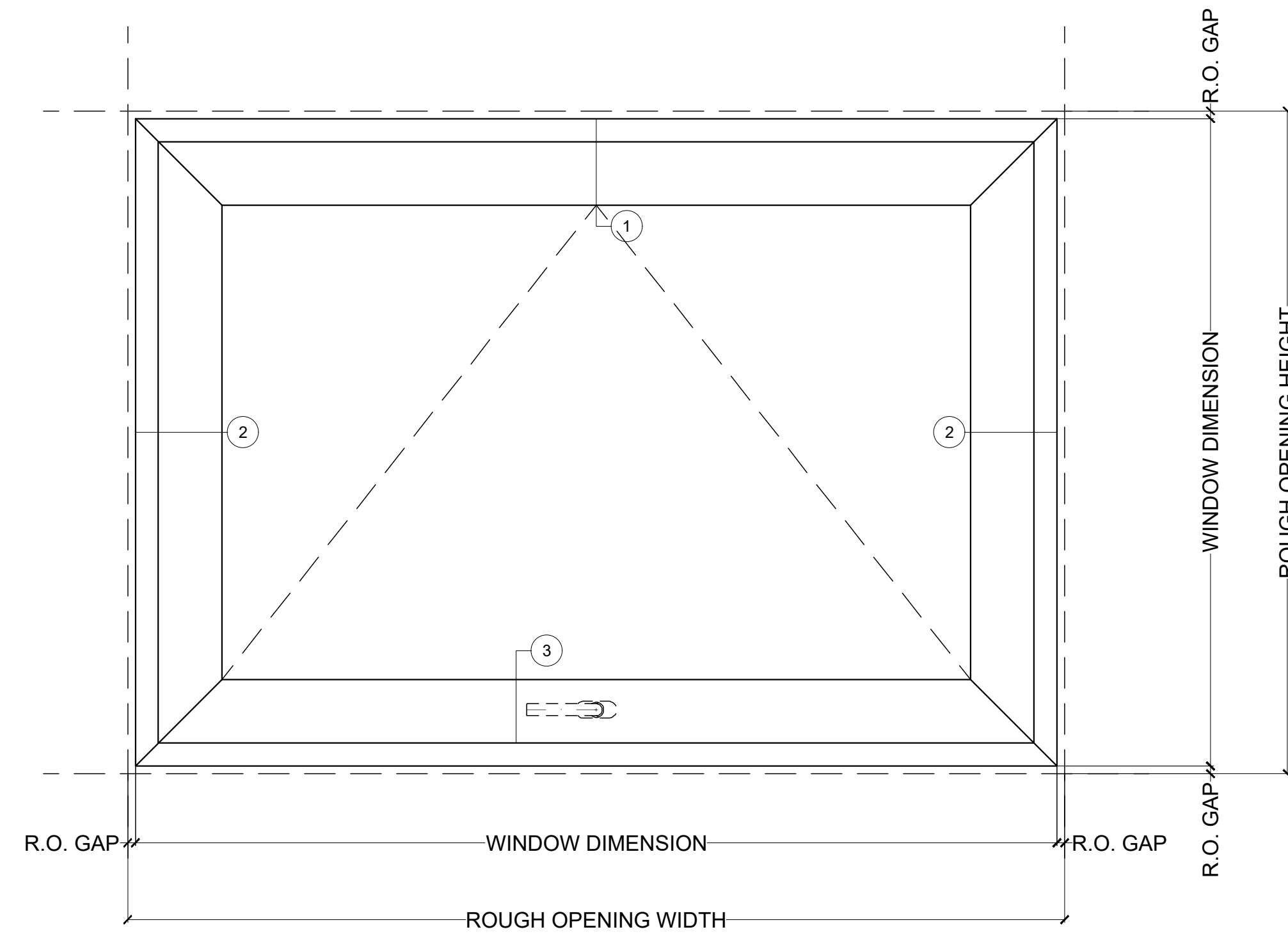


STANDARD STEEL REINFORCEMENT 8790 @ SASH

SCALE 1'-0" = 1'-0"

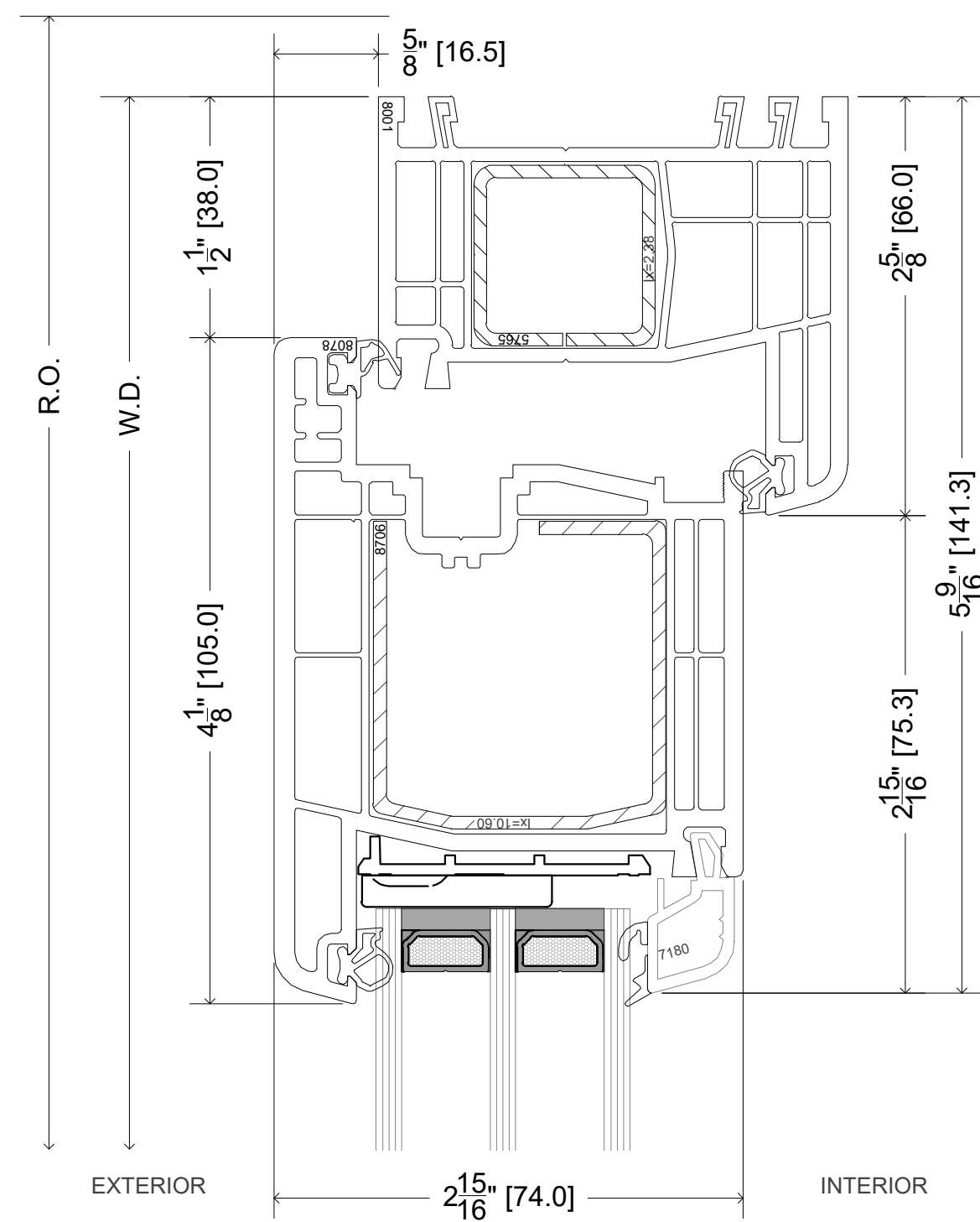
OPT. STEEL REINFORCEMENTS 8709 & 8709+5833 @ SASH

SCALE 1'-0" = 1'-0"

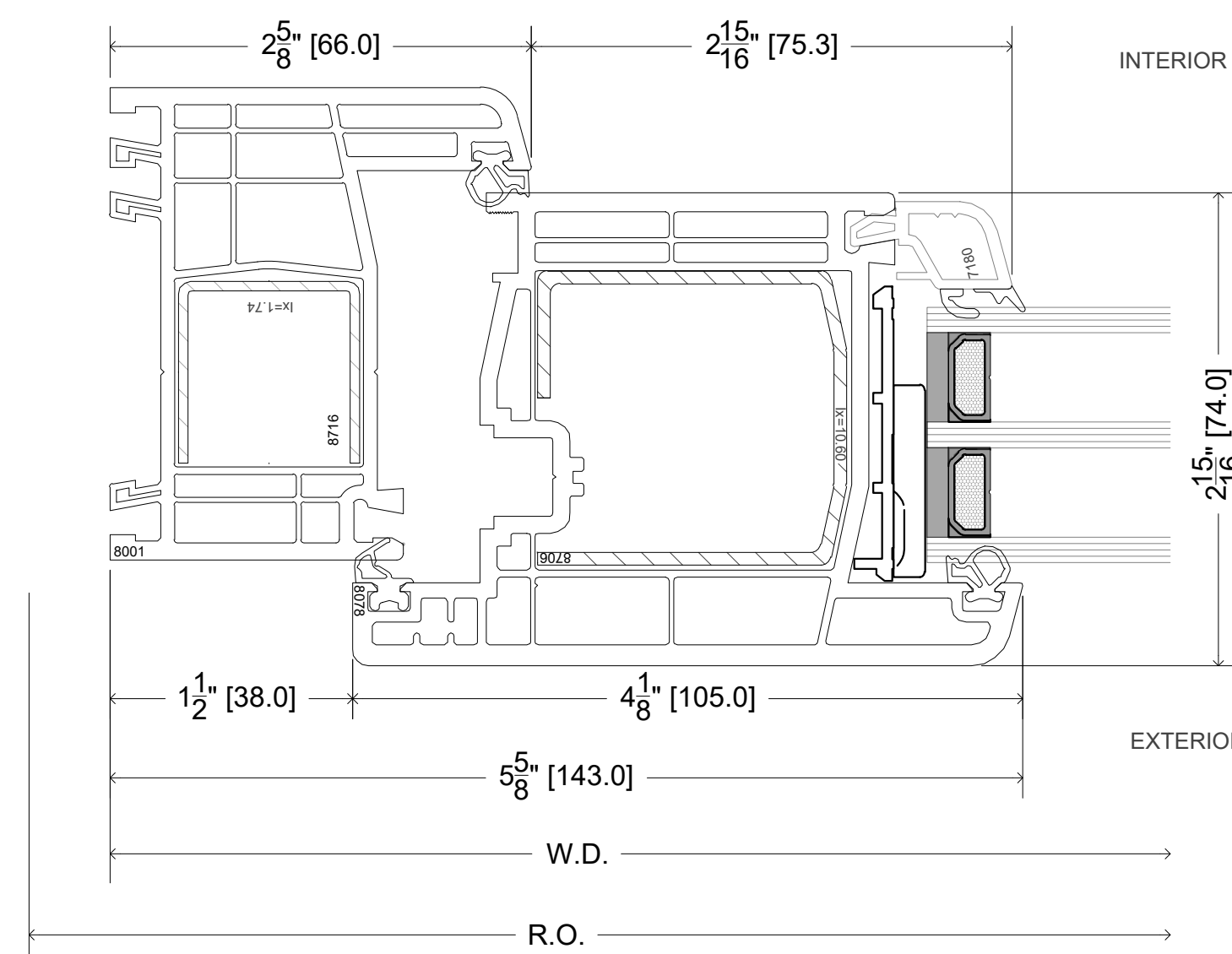


AW AWNING WINDOW

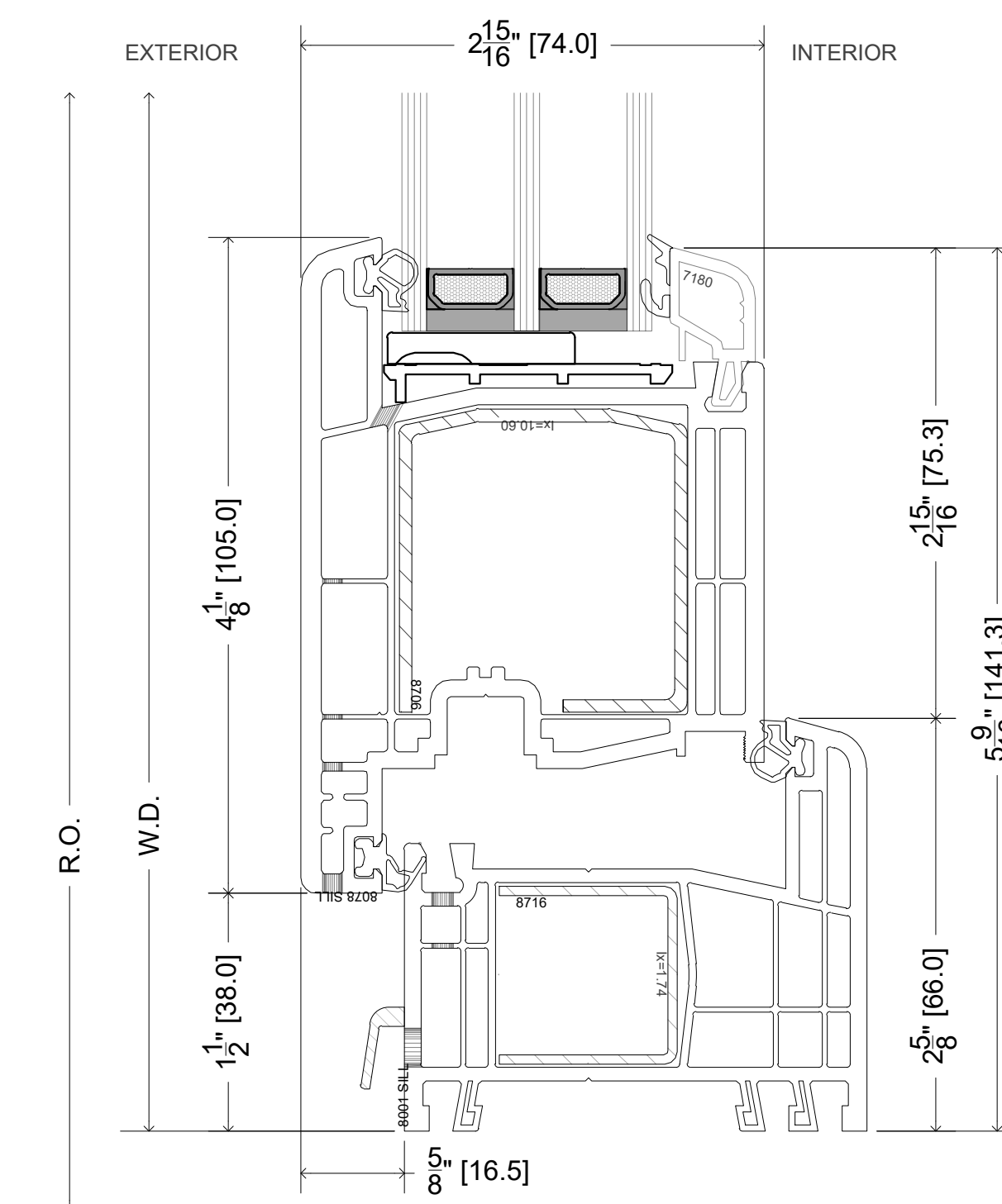
SCALE 1 1/2" = 1'-0"



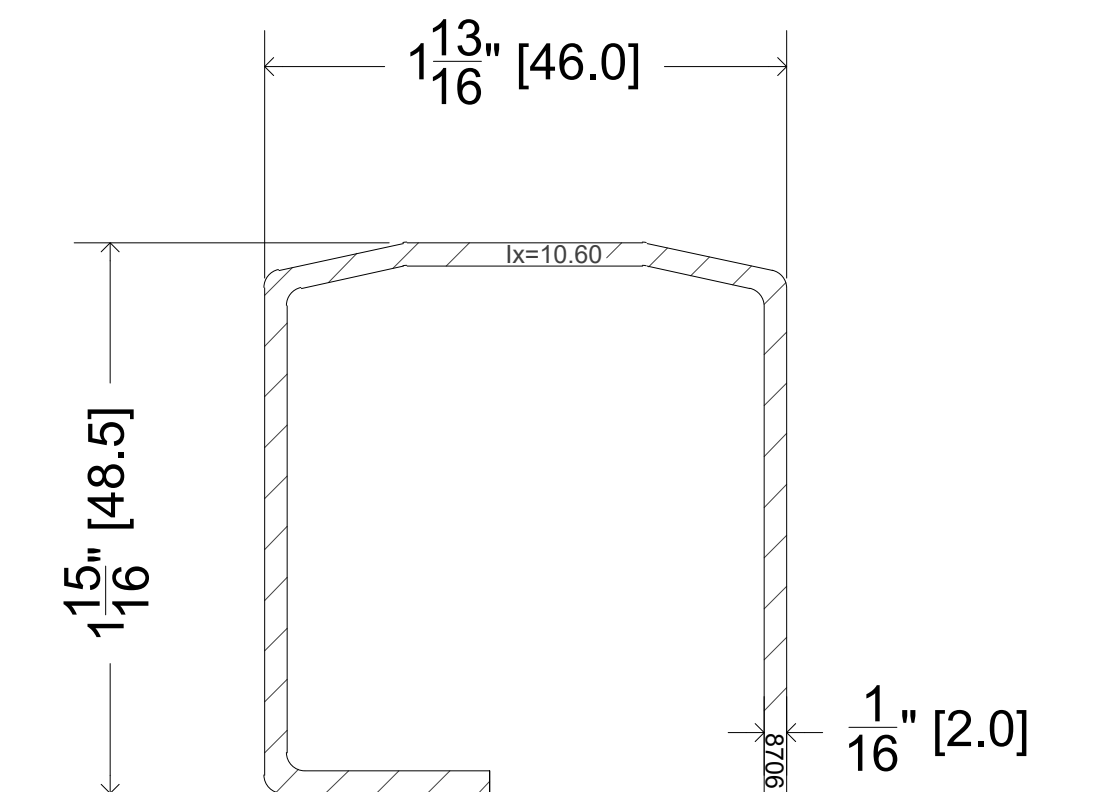
1 AWNING WINDOW SECTION PROFILE @ HEAD
SCALE 1'-0" = 1'-0"



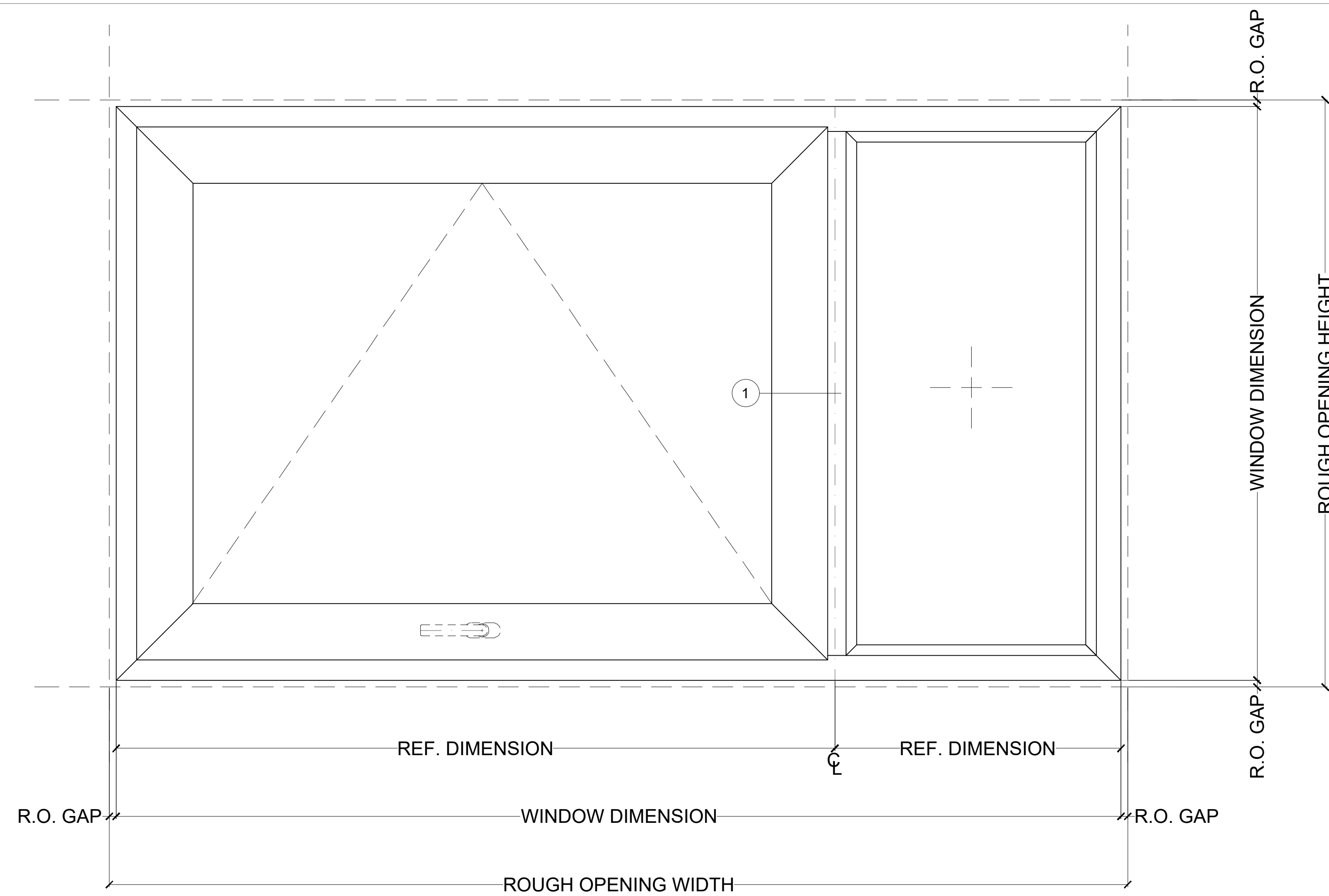
2 AWNING WINDOW SECTION PROFILE @ JAMB
SCALE 1'-0" = 1'-0"



3 AWNING WINDOW SECTION PROFILE @ SILL
SCALE 1'-0" = 1'-0"

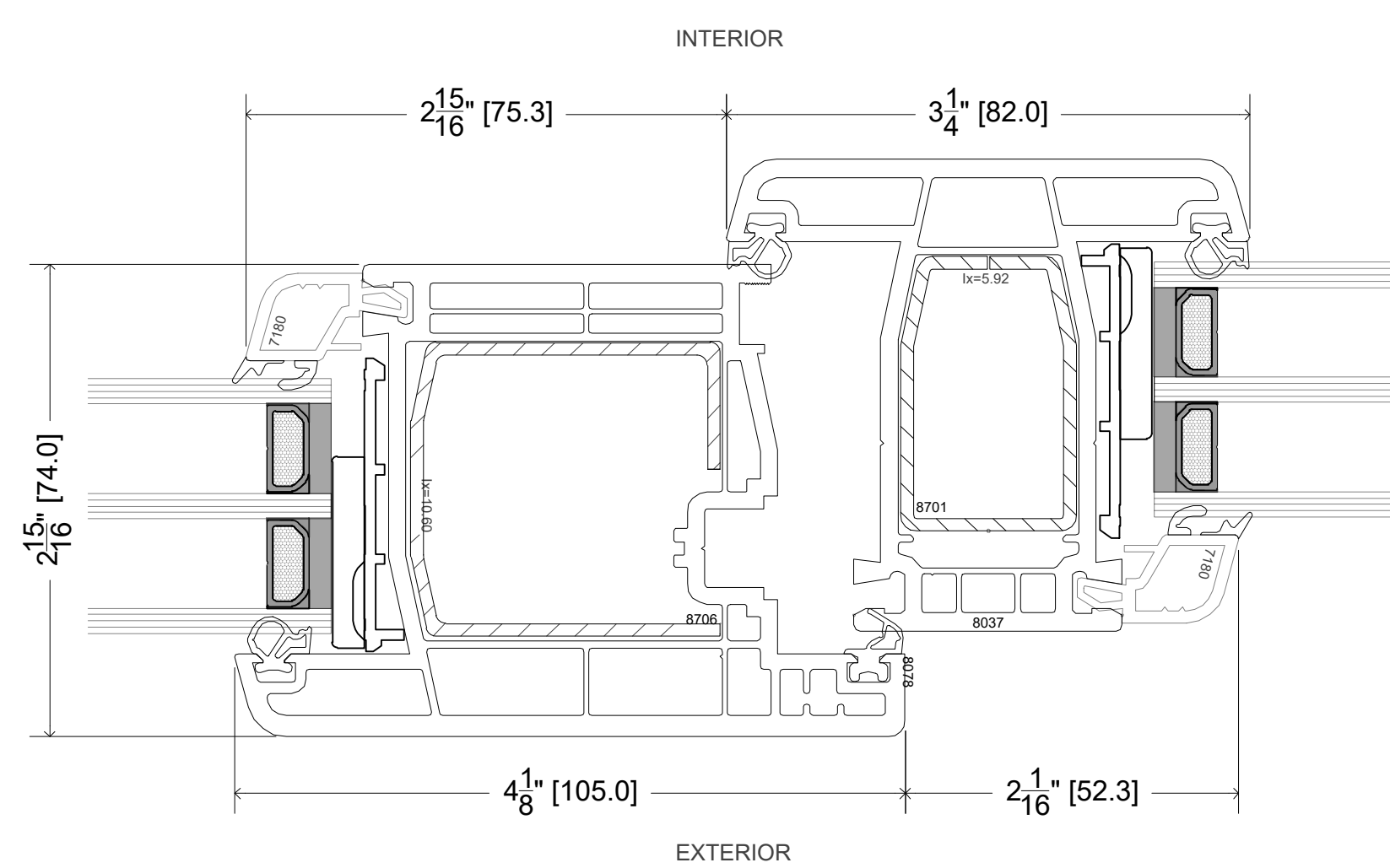


STEEL REINFORCEMENT 8706 @ SASH
SCALE 1'-6" = 1'-0"



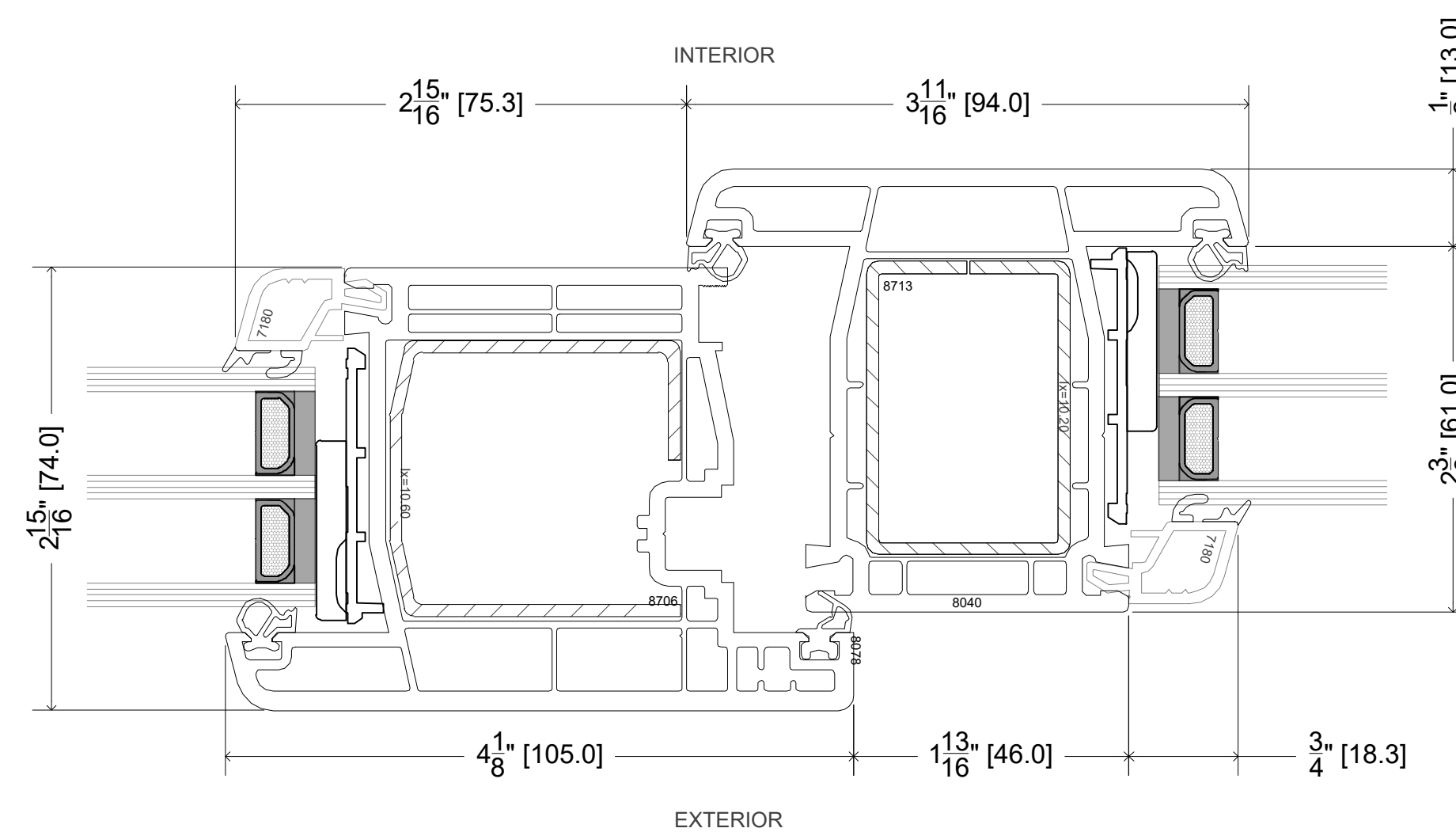
AW AWNING WINDOW WITH INTEGRAL MULLION

SCALE 2" = 1'-0"



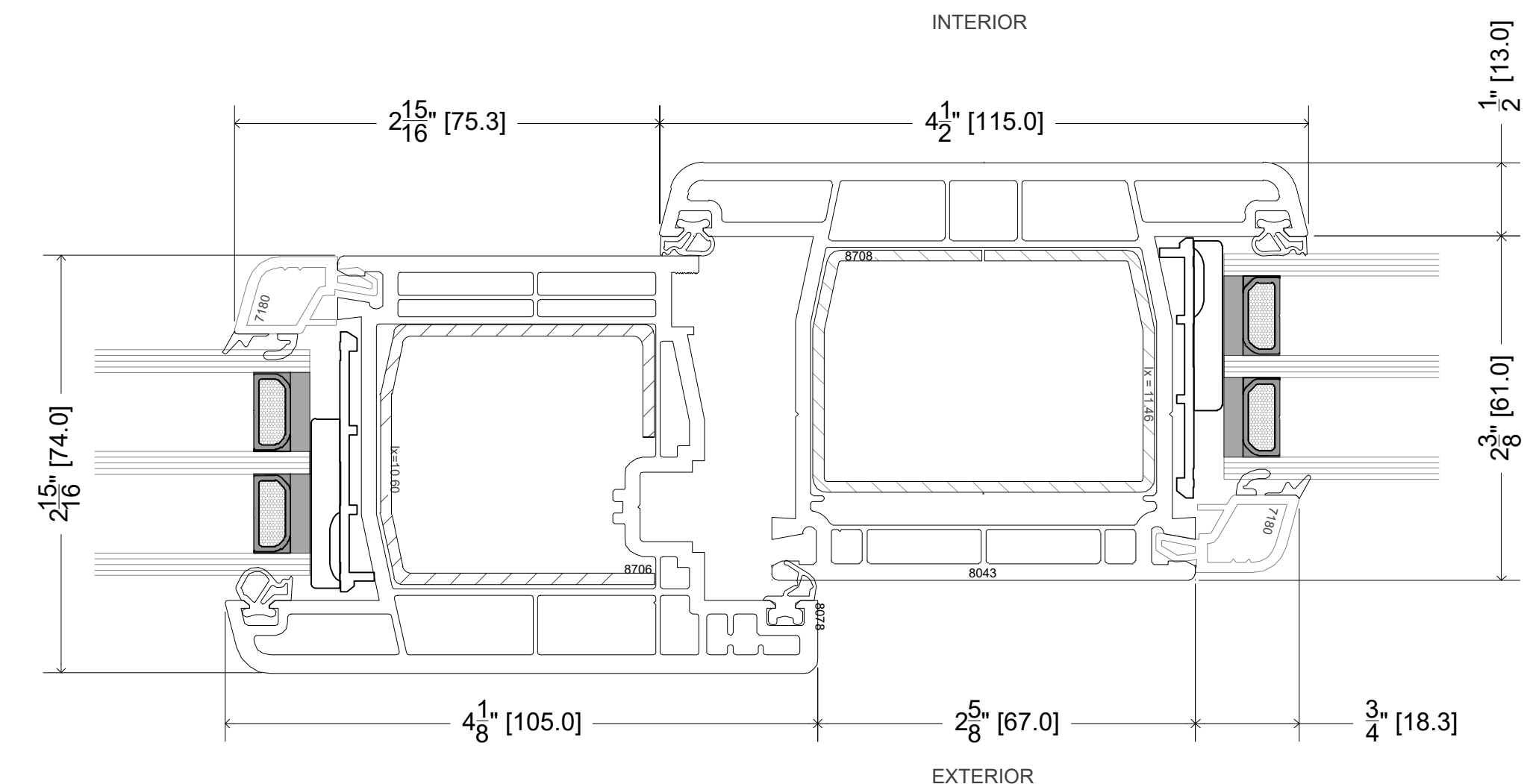
1 AWNING WINDOW WITH SMALL INTEGRAL MULLION

SCALE 1'-0" = 1'-0"



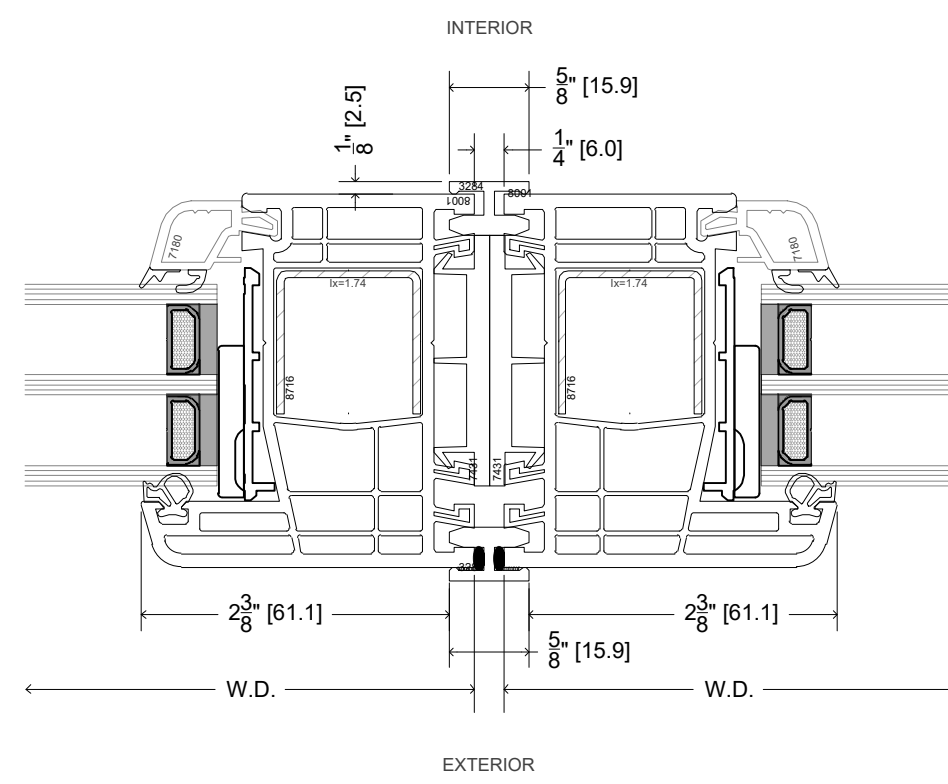
1 AWNING WINDOW WITH MEDIUM INTEGRAL MULLION

SCALE 1'-0" = 1'-0"

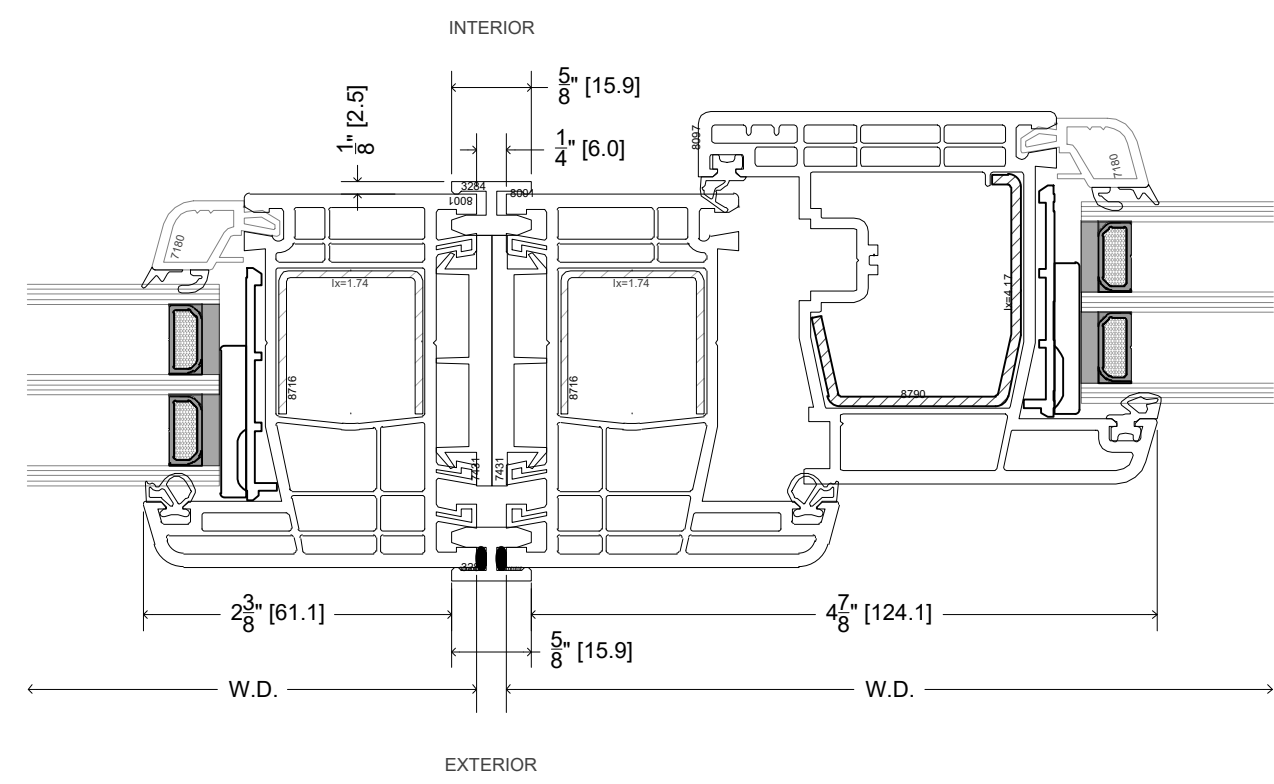


1 AWNING WINDOW WITH LARGE INTEGRAL MULLION

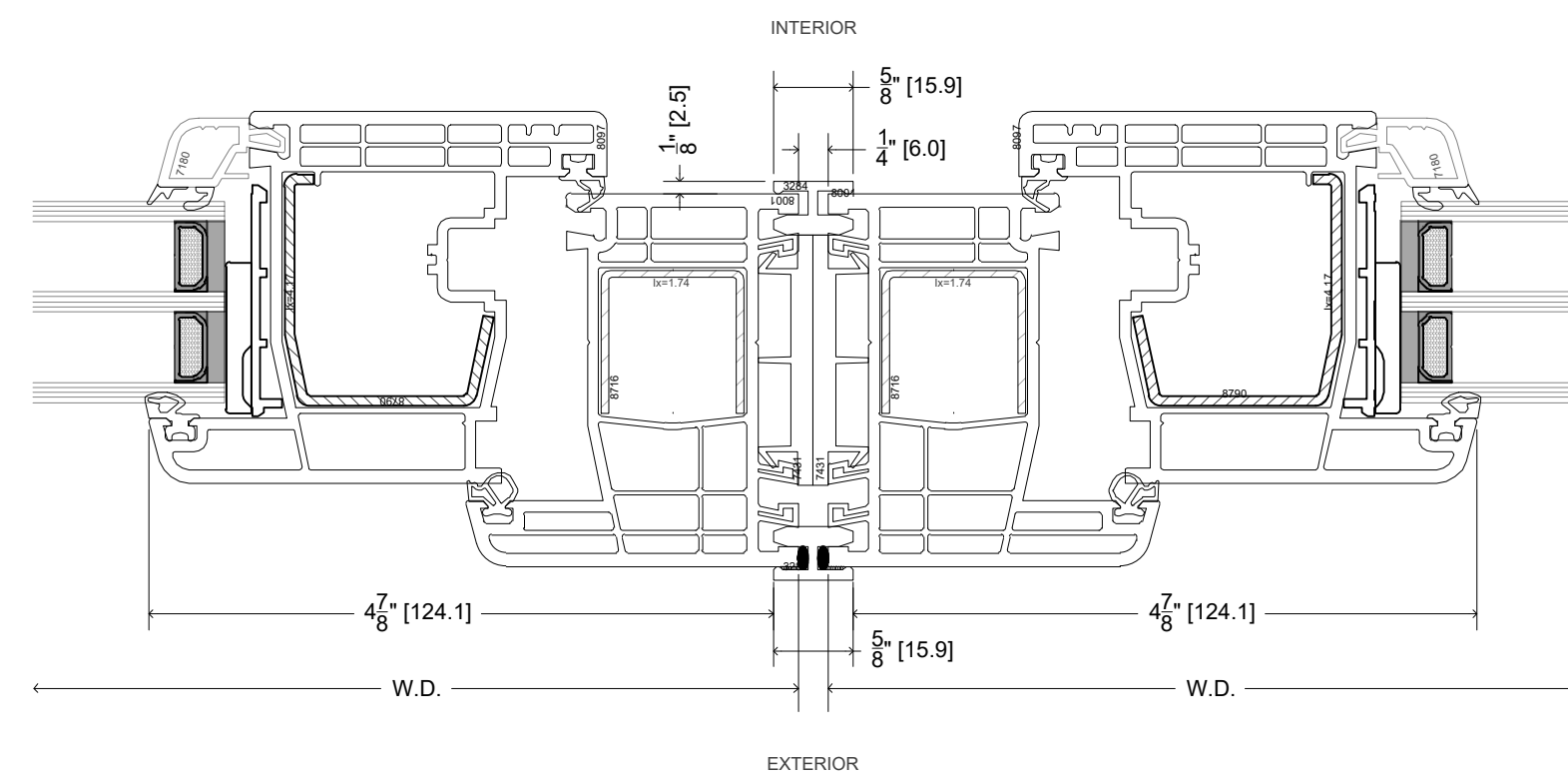
SCALE 1'-0" = 1'-0"



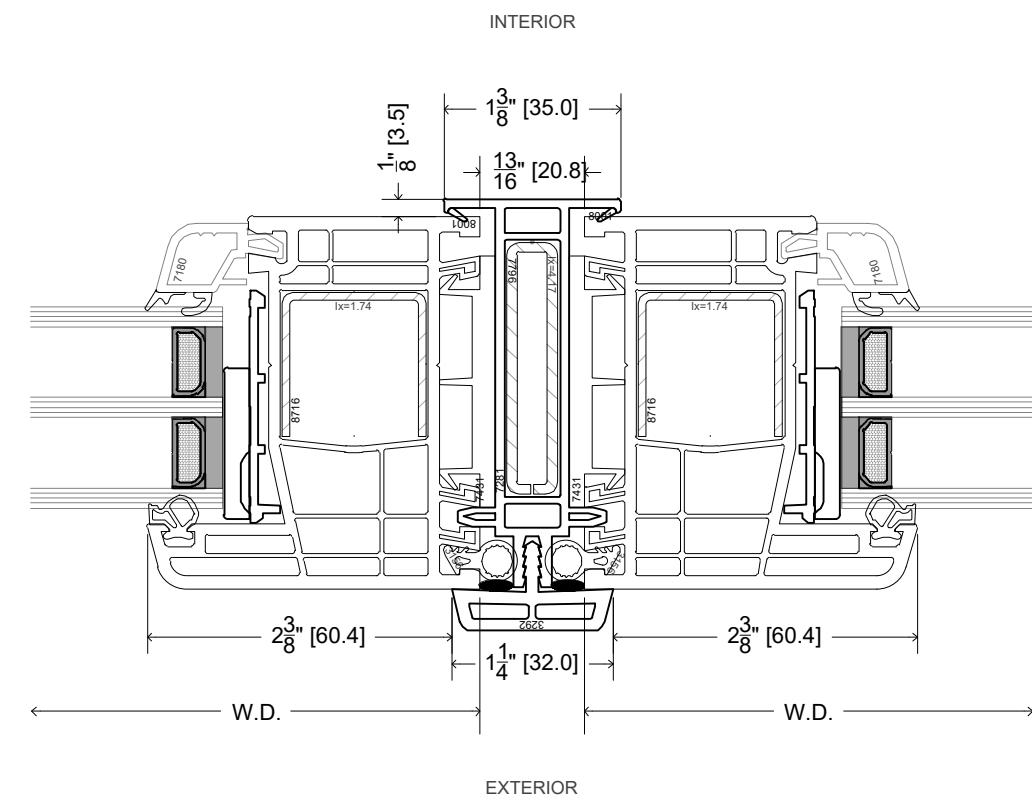
1 CONNECTION MULLION 3284 / 3284 SECTION PROFILE
FIXED TO FIXED WINDOW SCALE 8" = 1'-0"



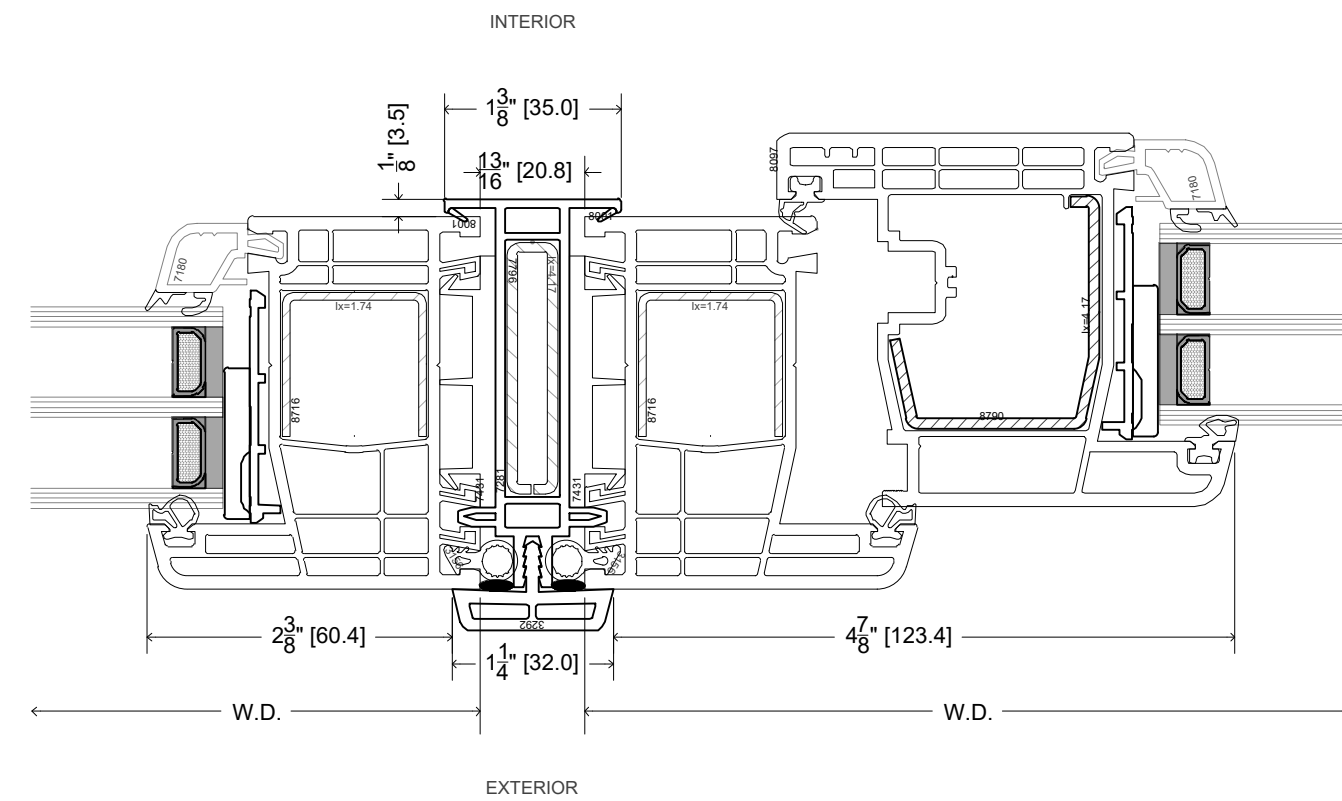
2 CONNECTION MULLION 3284 / 3284 SECTION PROFILE
FIXED TO OPERABLE WINDOW SCALE 8" = 1'-0"



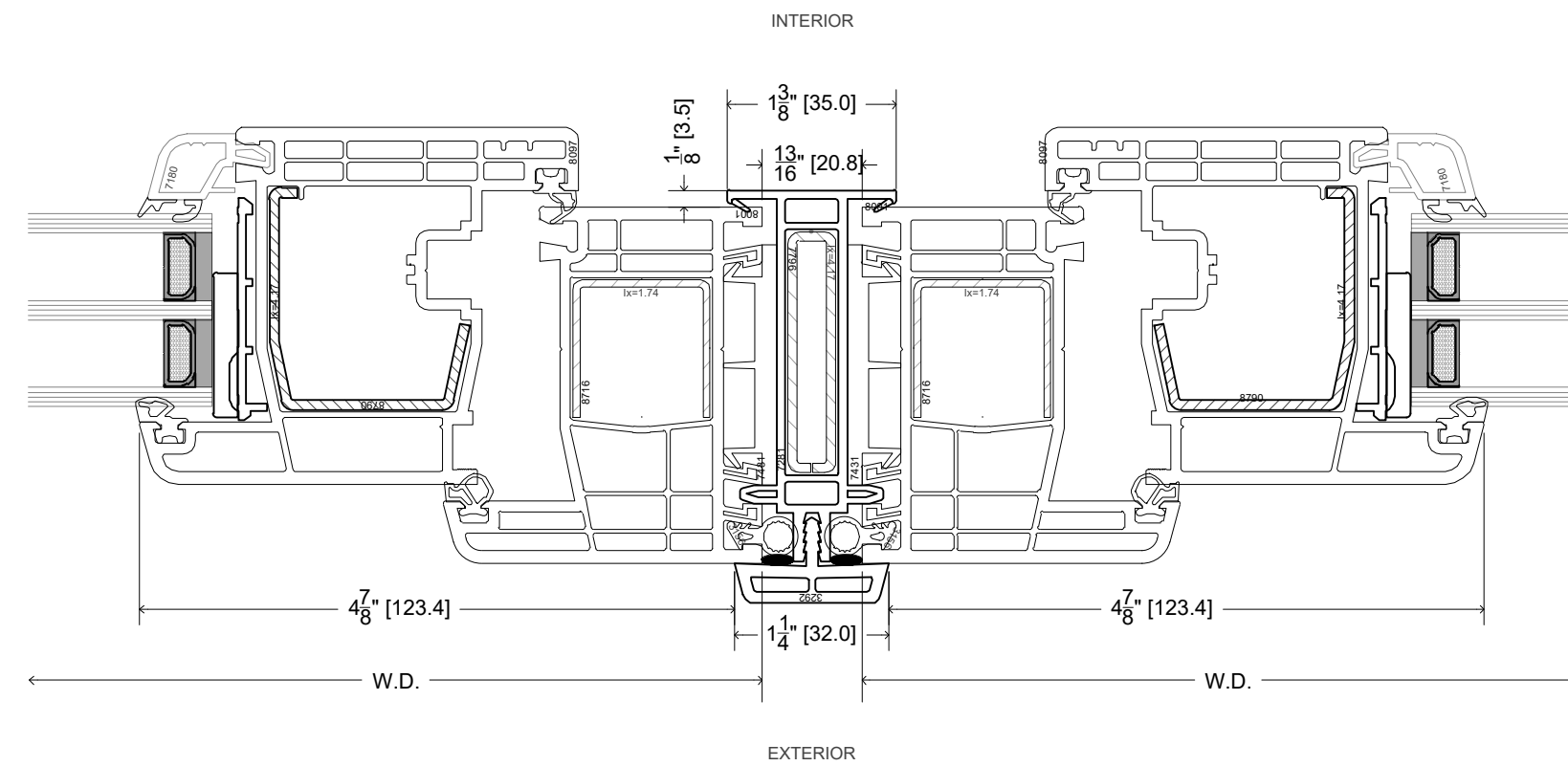
3 CONNECTION MULLION 3284 / 3284 SECTION PROFILE
OPERABLE TO OPERABLE WINDOW SCALE 8" = 1'-0"



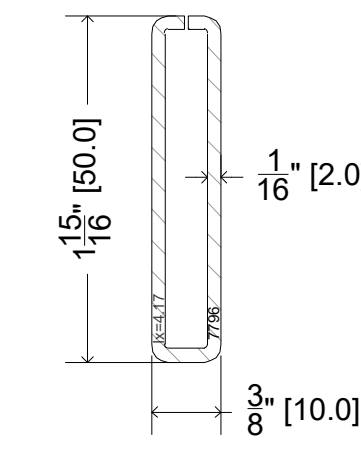
1 CONNECTION MULLION 7281 / 3292 SECTION PROFILE
FIXED TO FIXED WINDOW SCALE 8" = 1'-0"



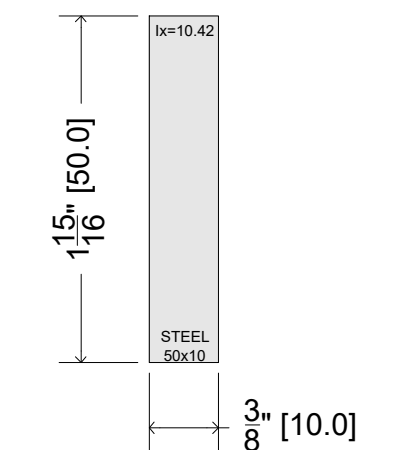
2 CONNECTION MULLION 7281 / 3292 SECTION PROFILE
FIXED TO OPERABLE WINDOW SCALE 8" = 1'-0"



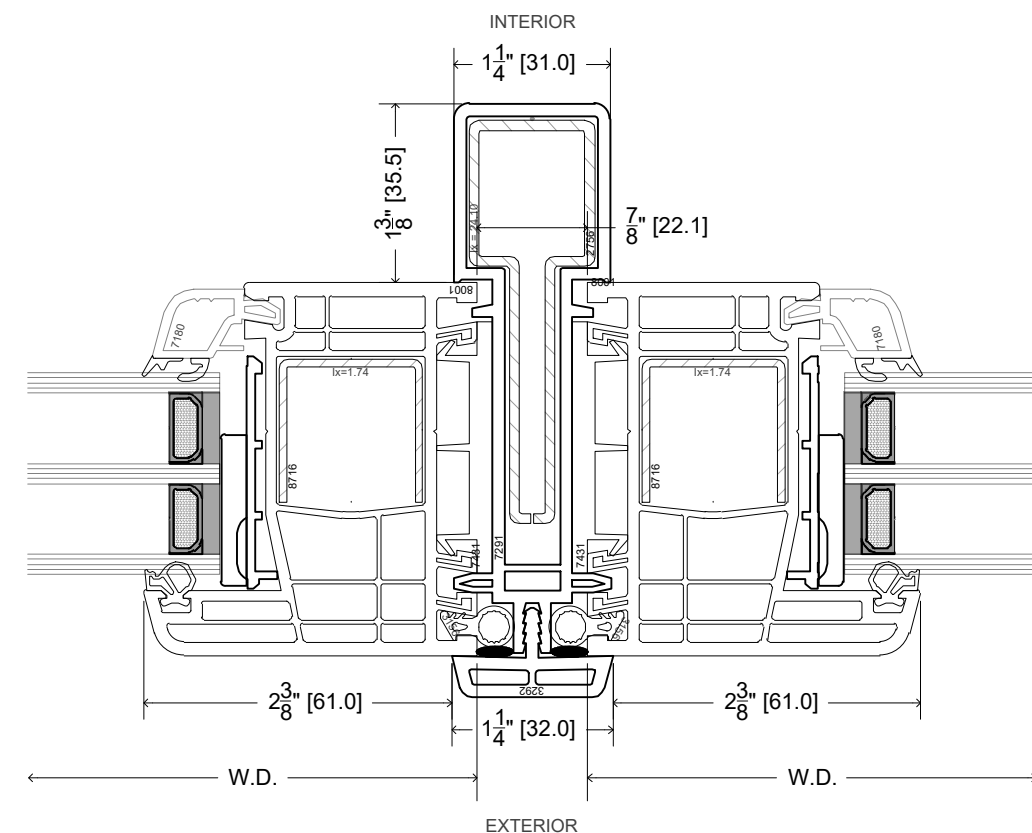
3 CONNECTION MULLION 7281 / 3292 SECTION PROFILE
OPERABLE TO OPERABLE WINDOW SCALE 8" = 1'-0"



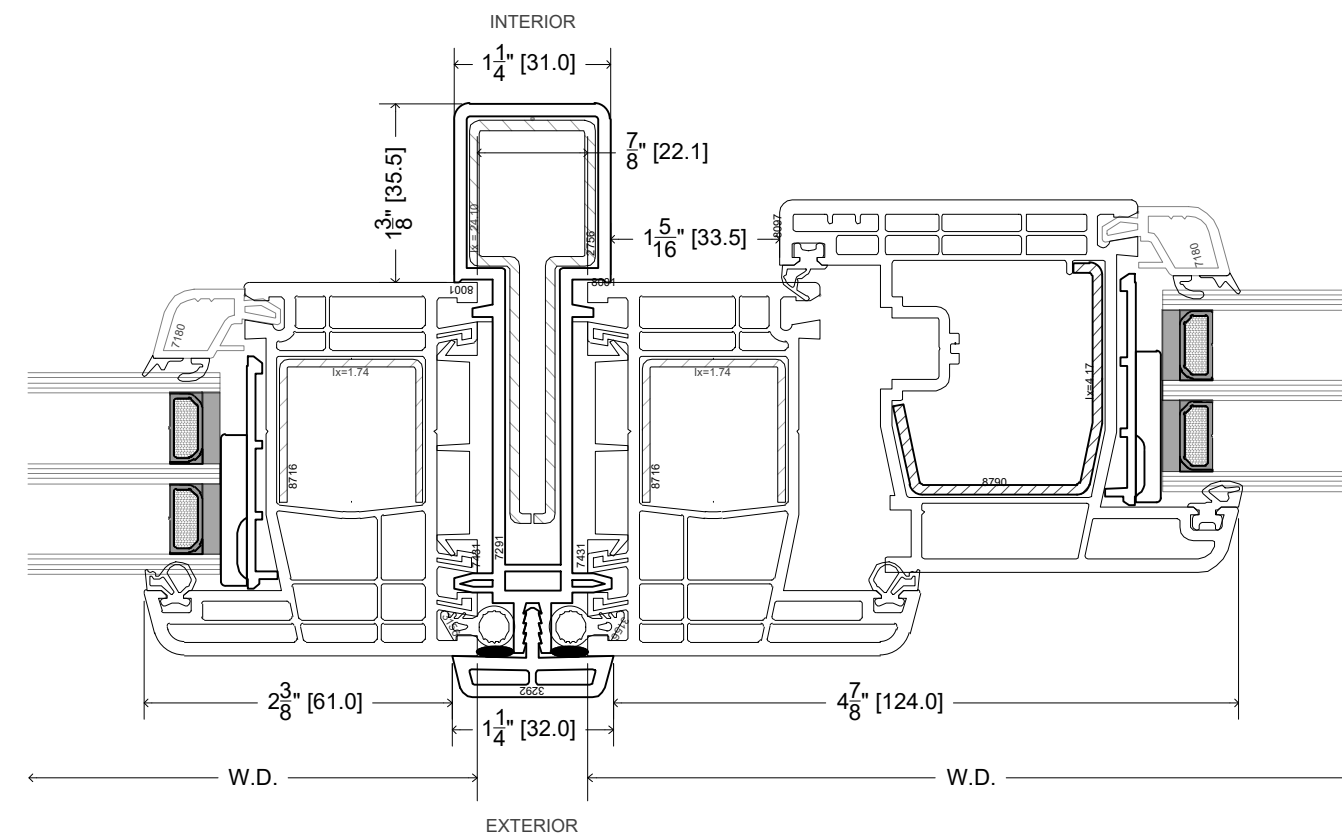
STANDARD STEEL REINFORCEMENT
FOR MULLION 7281



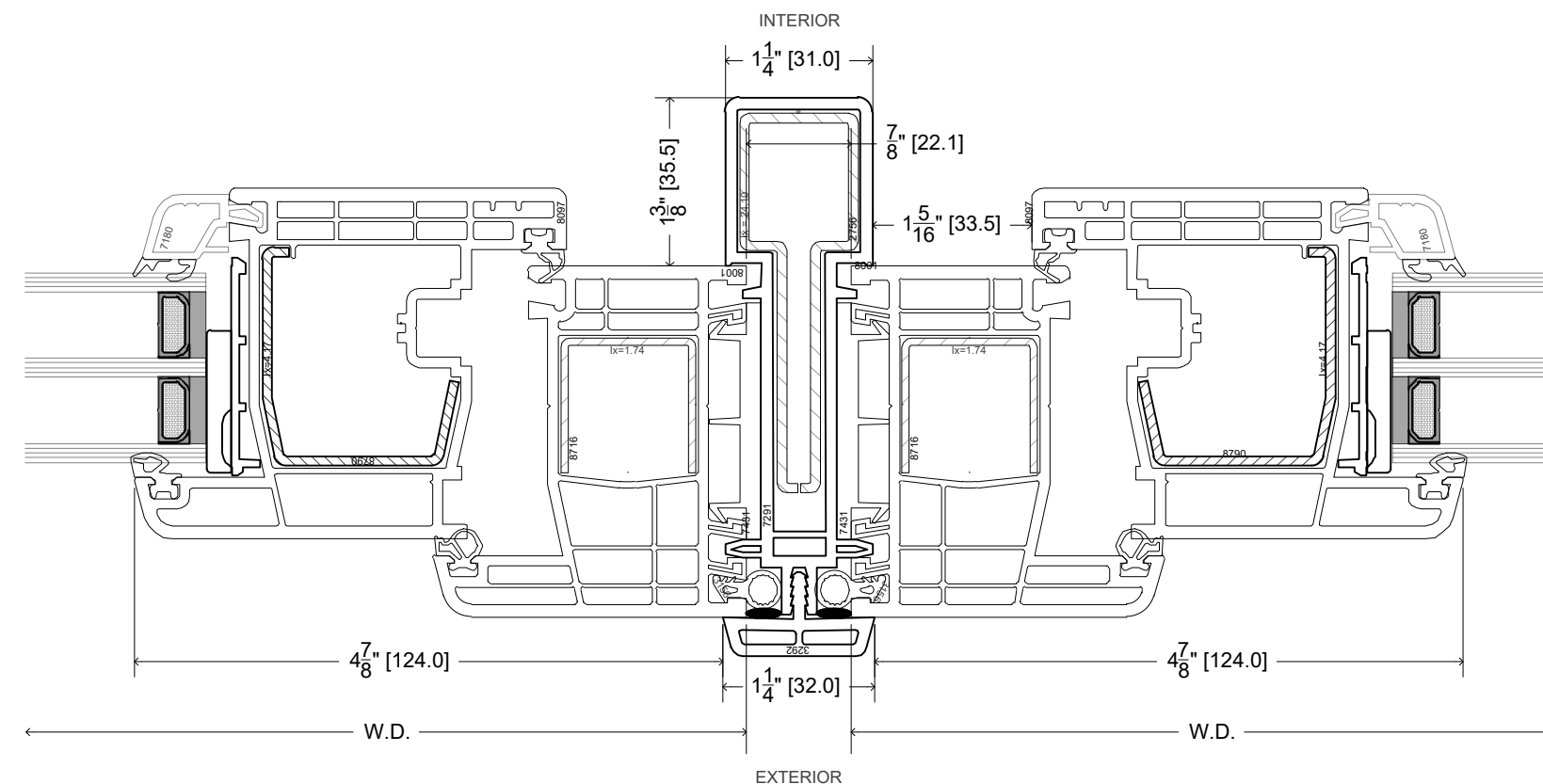
OPTIONAL STEEL REINFORCEMENT
FOR MULLION 7281



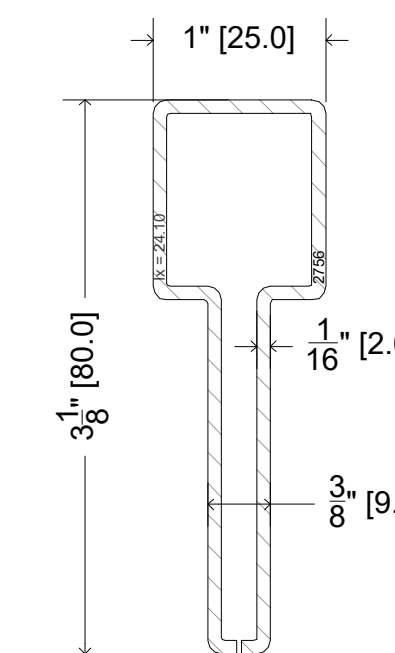
1 CONNECTION MULLION 7291 / 3292 SECTION PROFILE
FIXED TO FIXED WINDOW SCALE 8" = 1'-0"



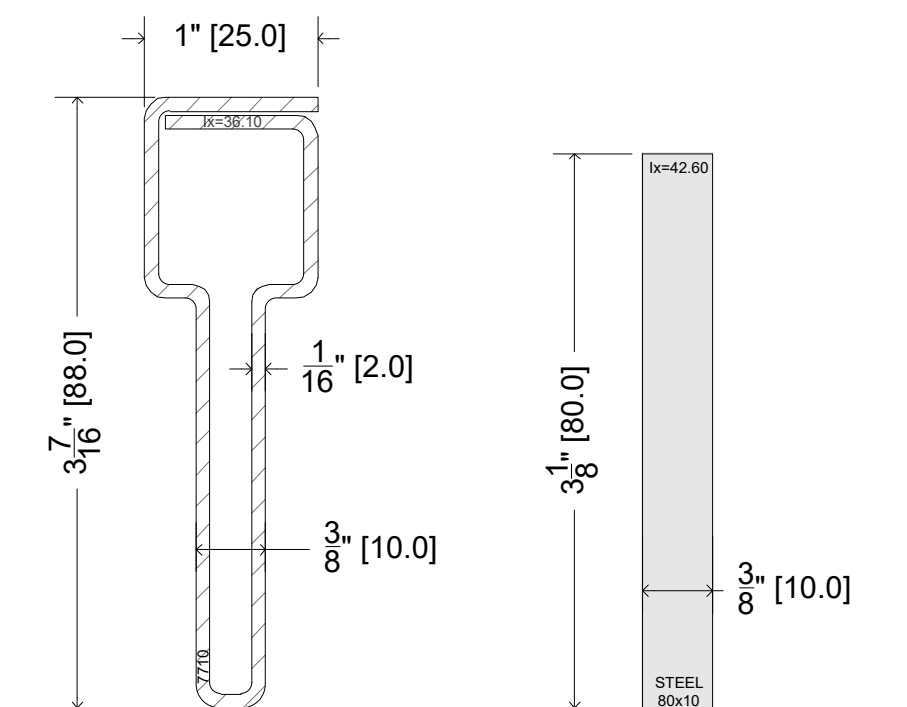
2 CONNECTION MULLION 7291 / 3292 SECTION PROFILE
FIXED TO OPERABLE WINDOW SCALE 8" = 1'-0"



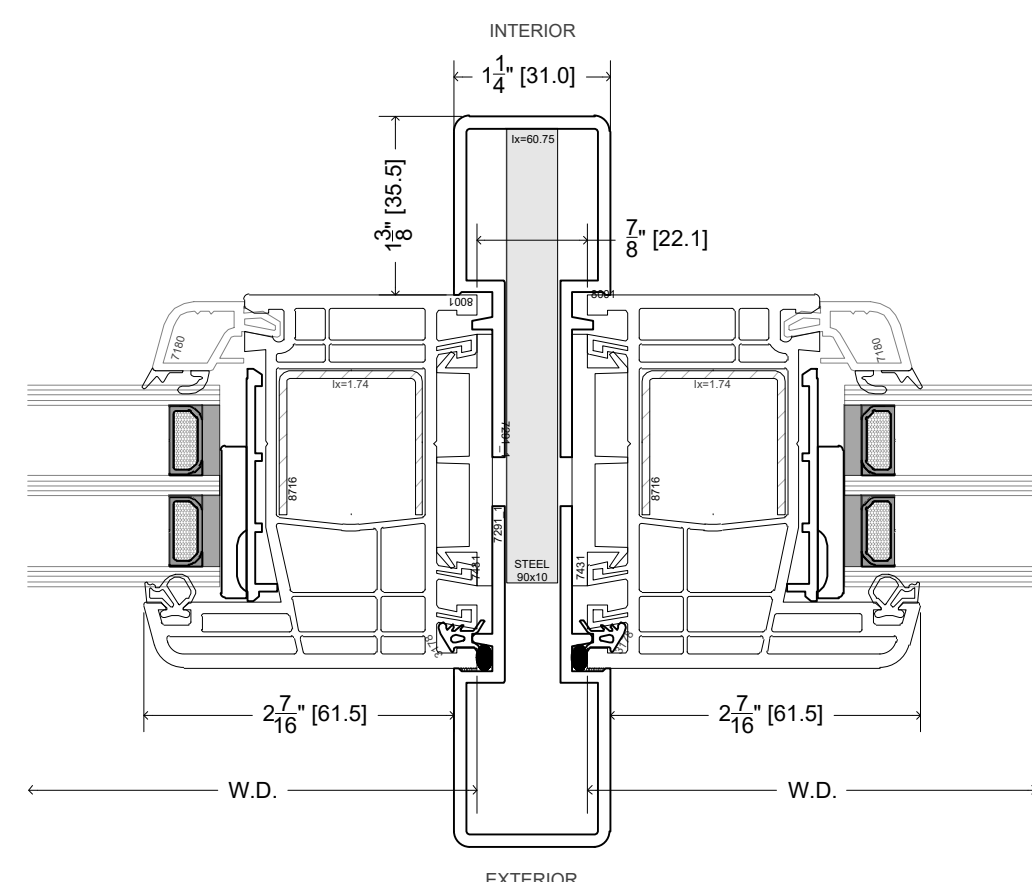
3 CONNECTION MULLION 7291 / 3292 SECTION PROFILE
OPERABLE TO OPERABLE WINDOW SCALE 8" = 1'-0"



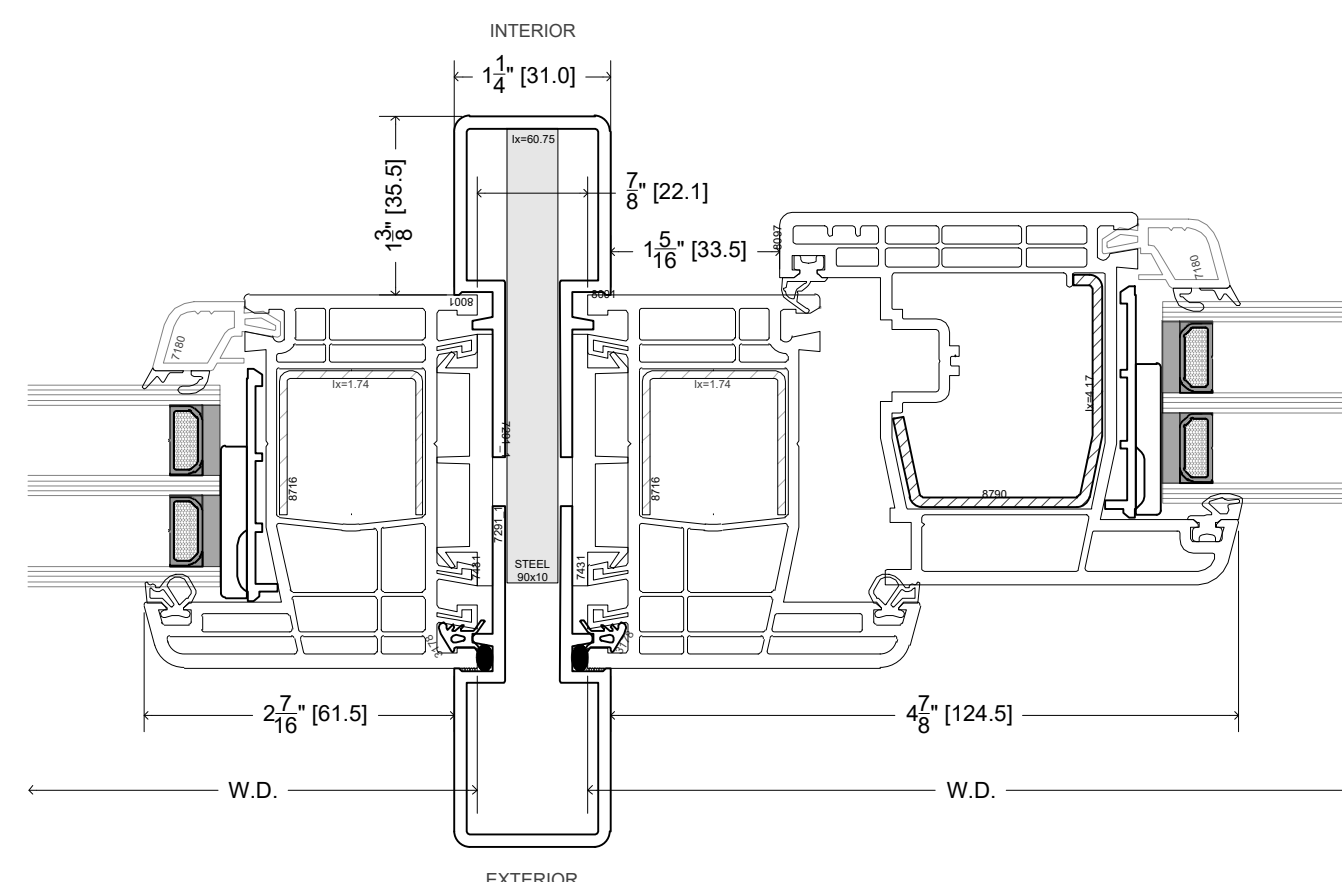
STANDARD STEEL REINFORCEMENT
FOR MULLION 7291



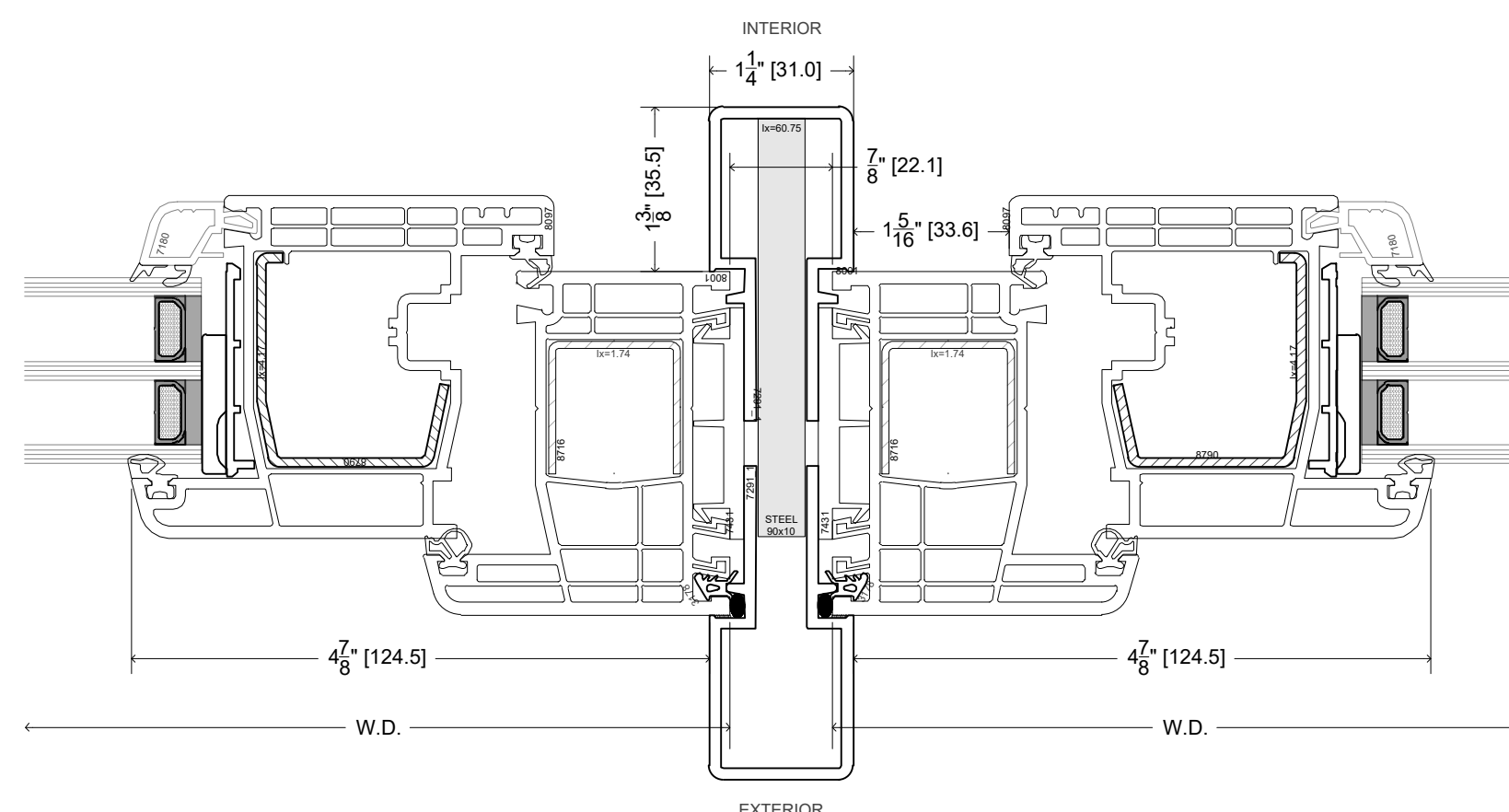
OPTIONAL STEEL REINFORCEMENT
FOR MULLION 7291



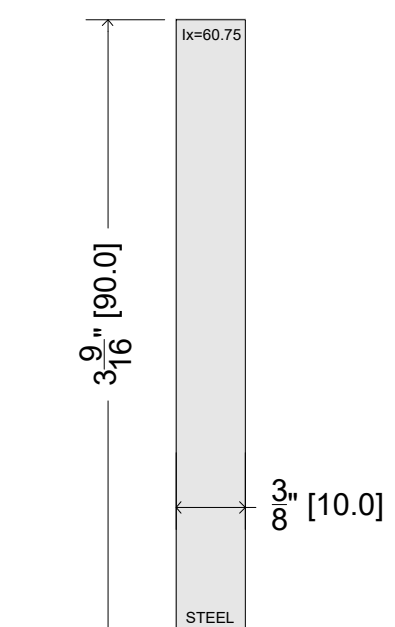
1 CONNECTION MULLION 7291 / 7291 SECTION PROFILE
FIXED TO FIXED WINDOW SCALE 8" = 1'-0"



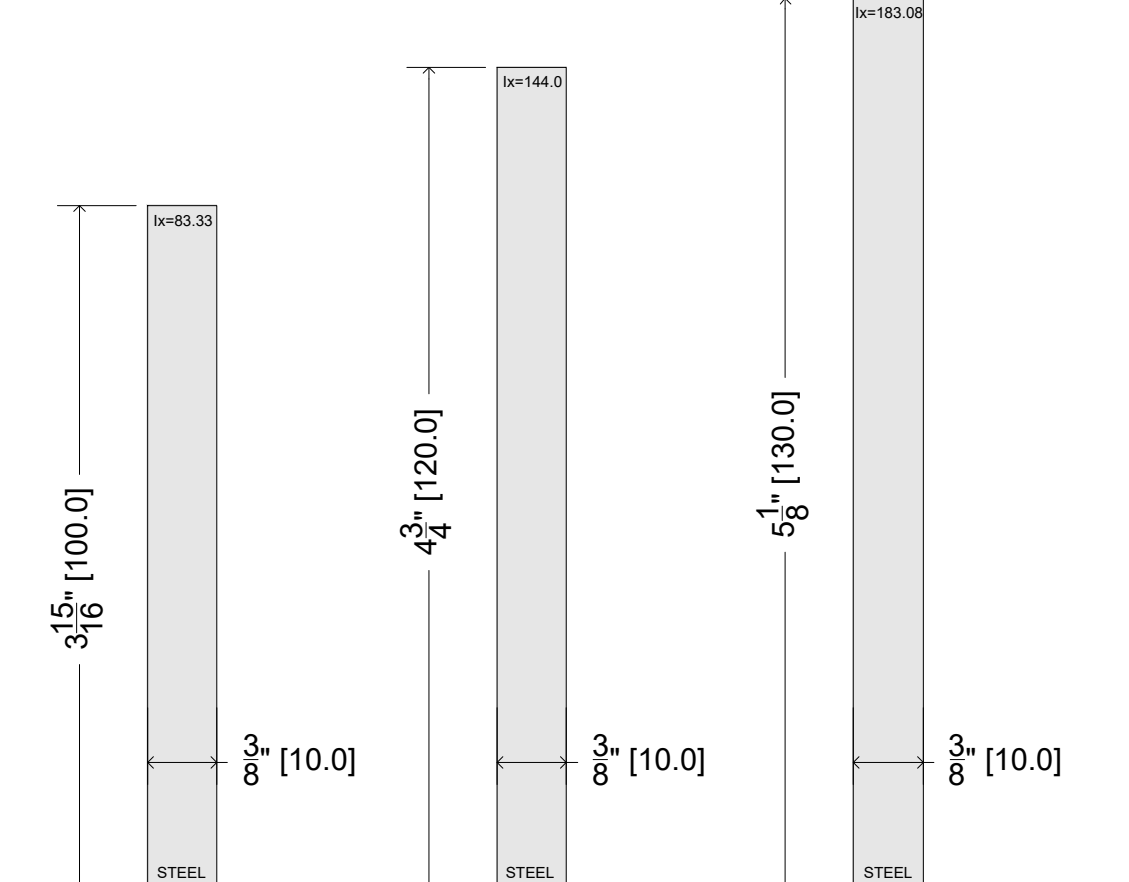
2 CONNECTION MULLION 7291 / 7291 SECTION PROFILE
FIXED TO OPERABLE WINDOW SCALE 8" = 1'-0"



3 CONNECTION MULLION 7291 / 7291 SECTION PROFILE
OPERABLE TO OPERABLE WINDOW SCALE 8" = 1'-0"

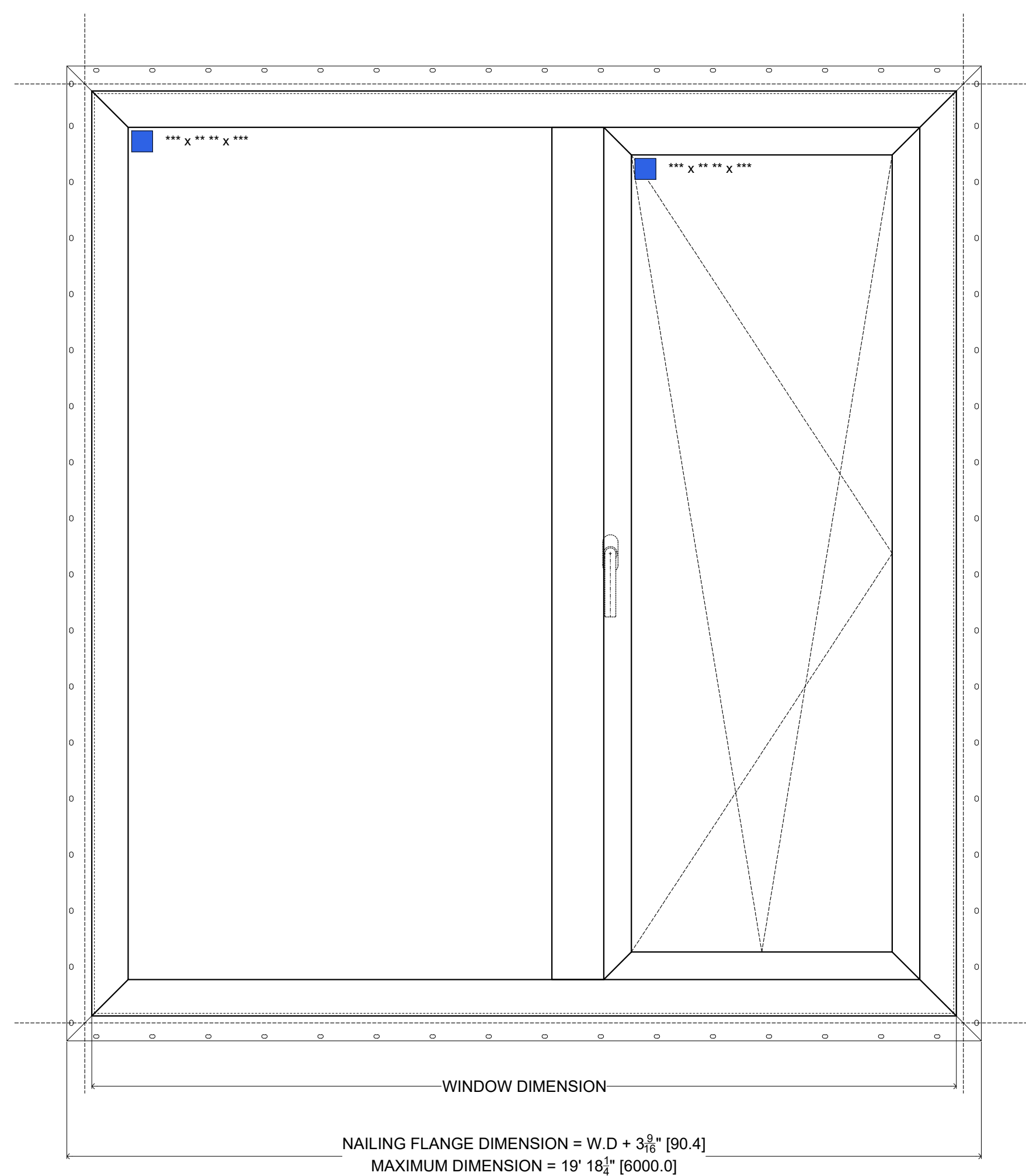


STANDARD STEEL REINFORCEMENT
FOR MULLION 7291/7291



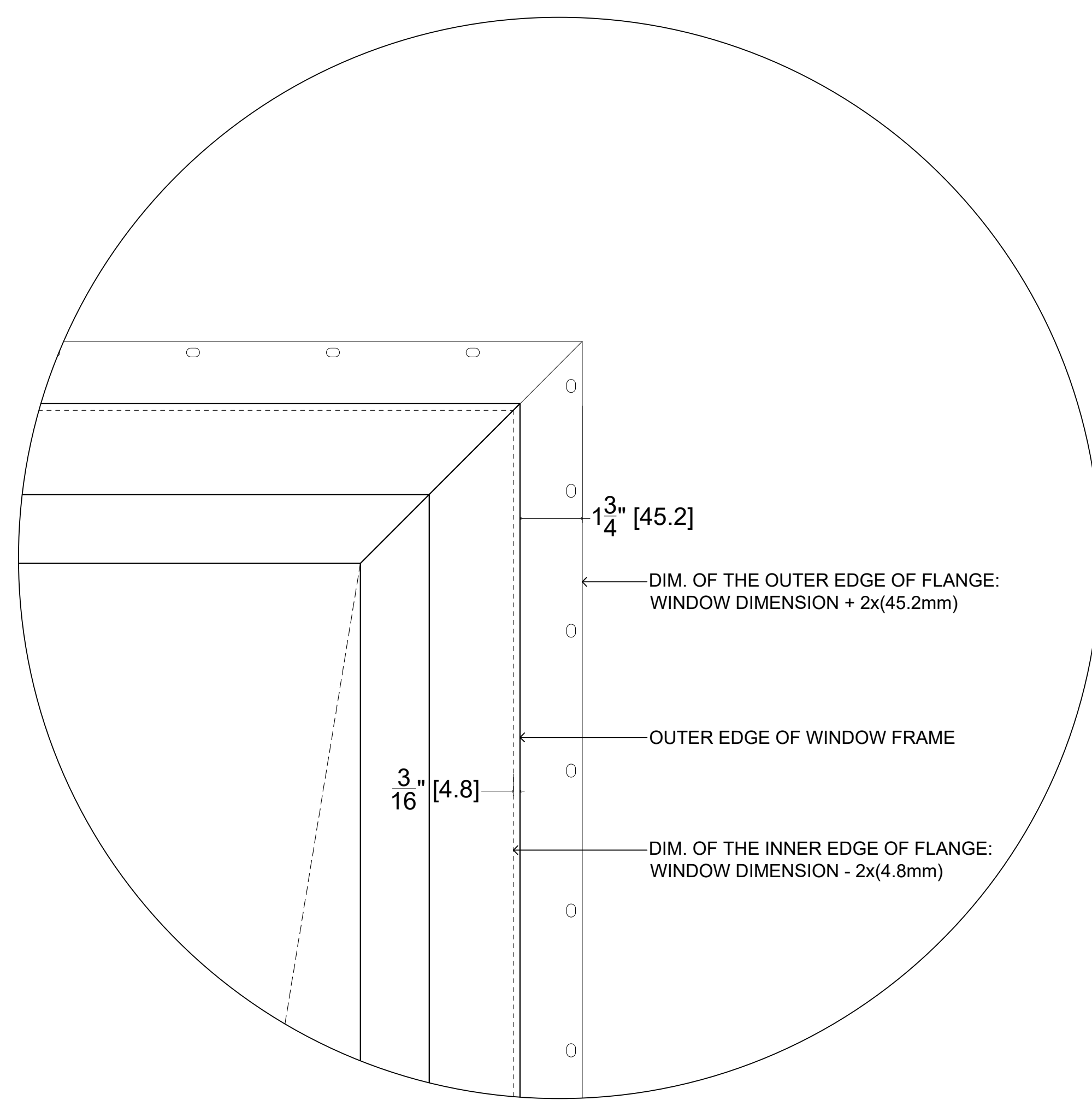
OPTIONAL STEEL REINFORCEMENT
FOR MULLION 7291/7291

SCALE 11" = 1'-0"



SAMPLE WINDOW ELEVATION WITH NAILING FLANGE

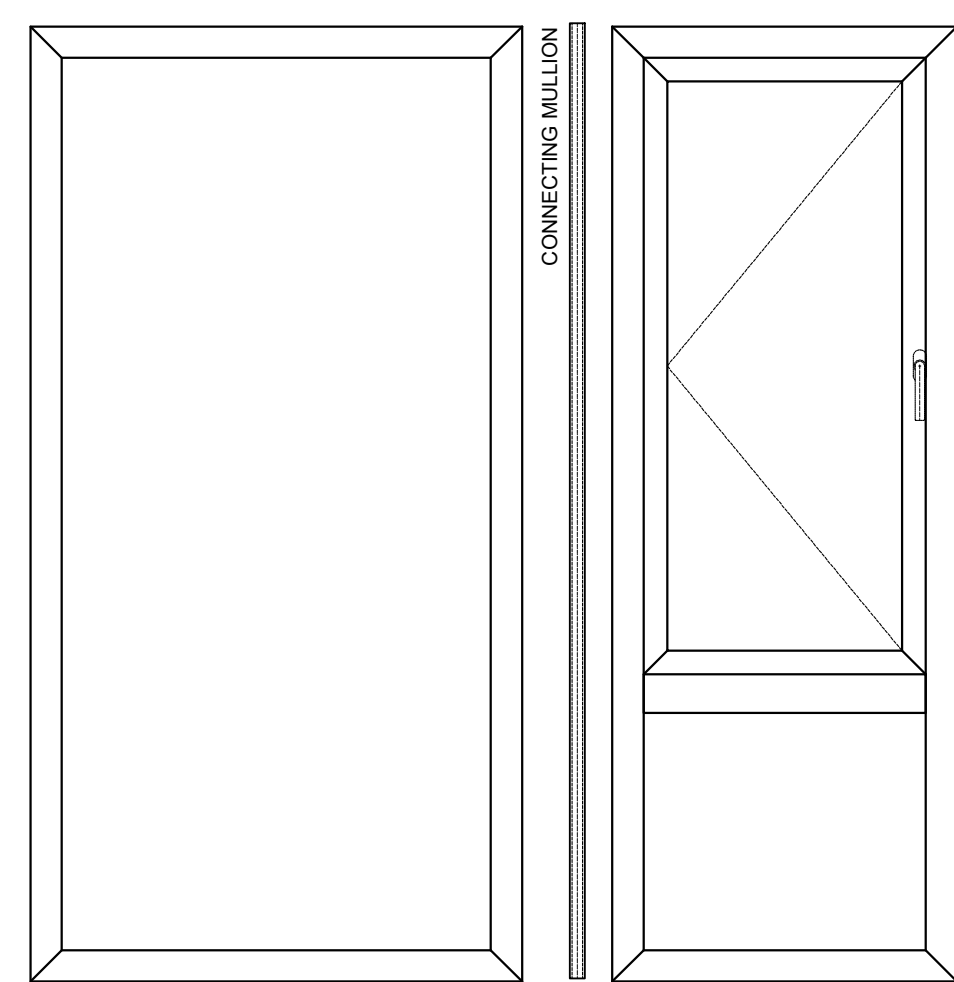
SCALE: 1-1/2" = 1'-0"



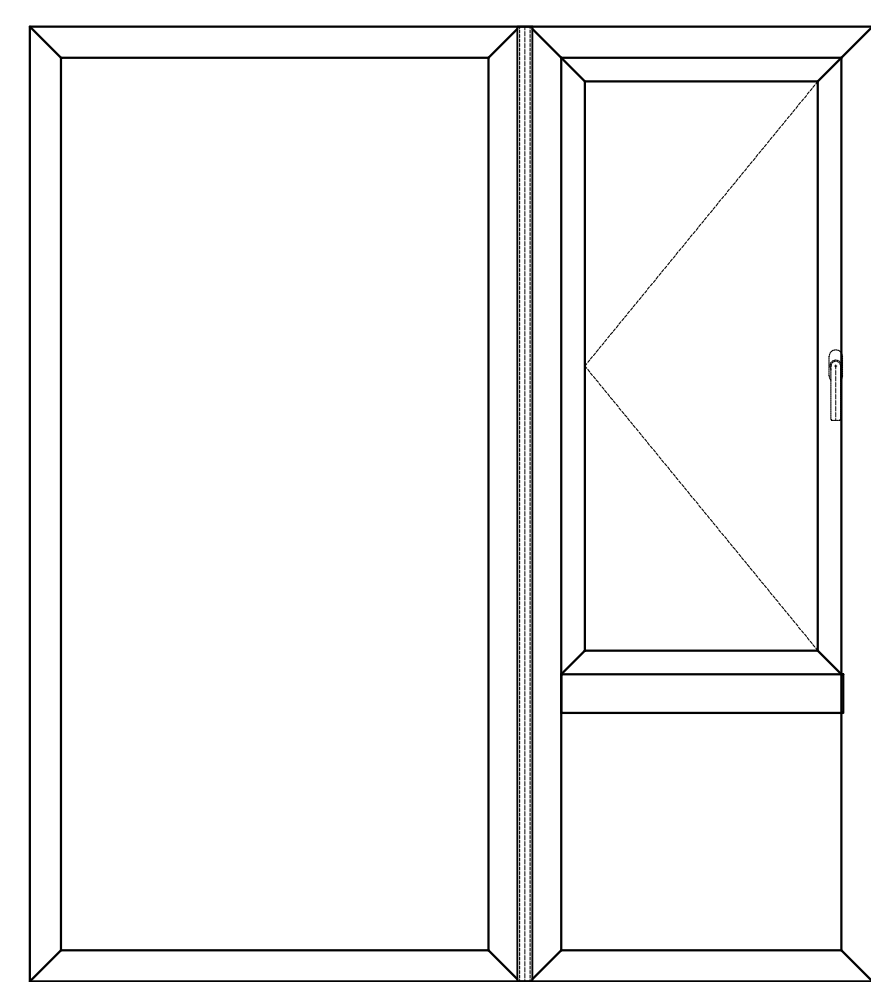
ALUMINUM FLANGE CORNER TRIMMING - SIZE REFERENCE

SCALE: 4" = 1'-0"

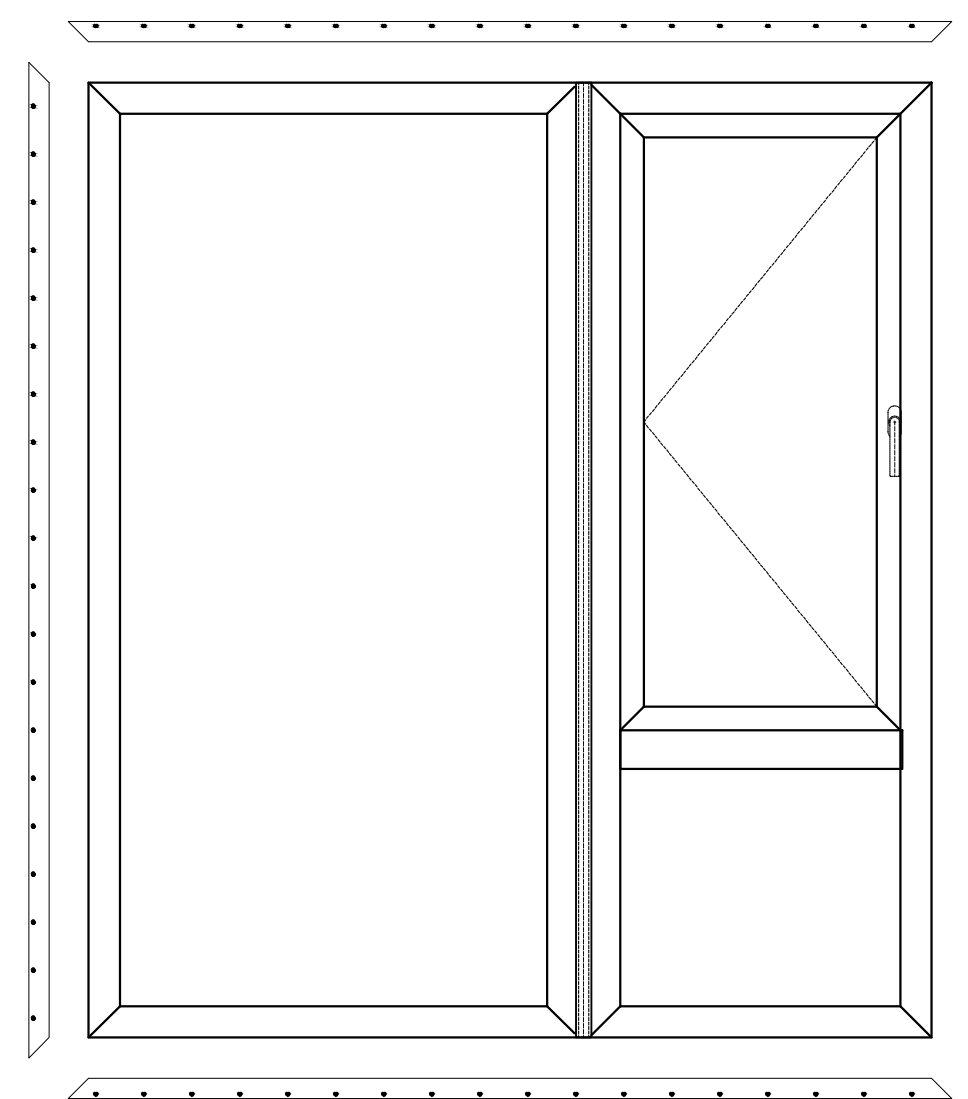
MULLED WINDOWS ALUMINUM FLANGE INSTALLATION SEQUENCE



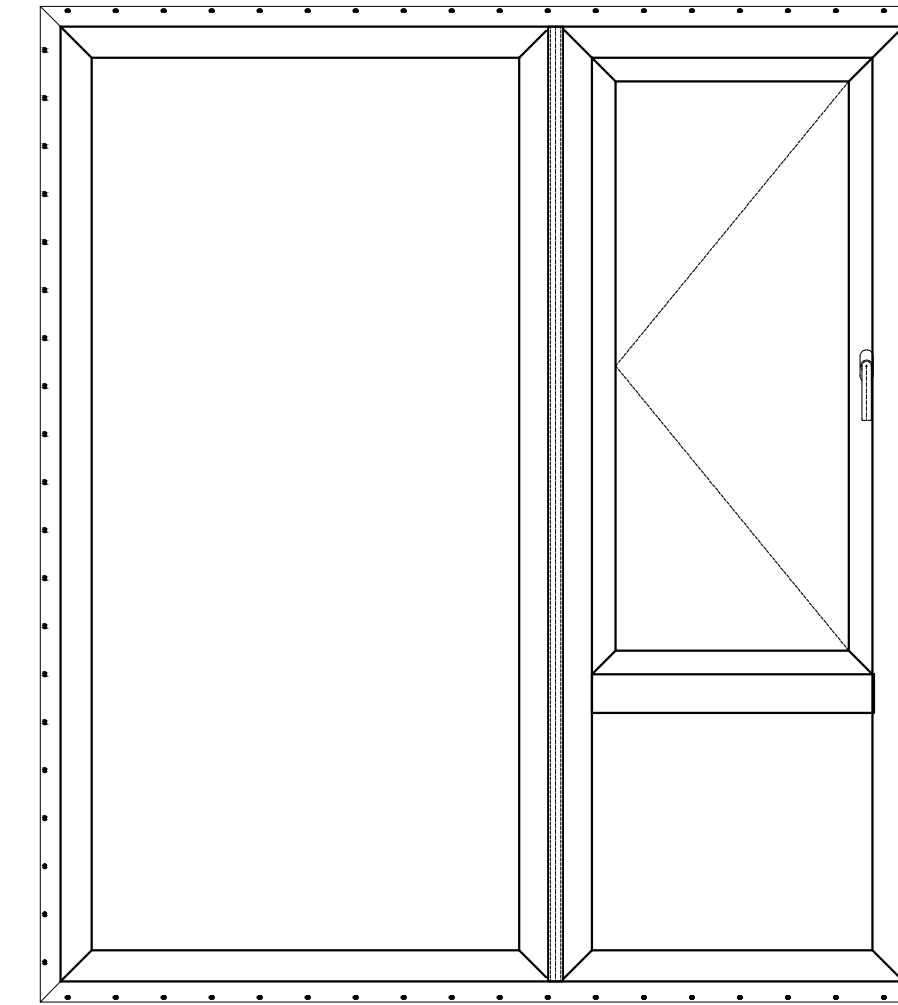
1 LOCATE WINDOWS & CONNECTING MULLION



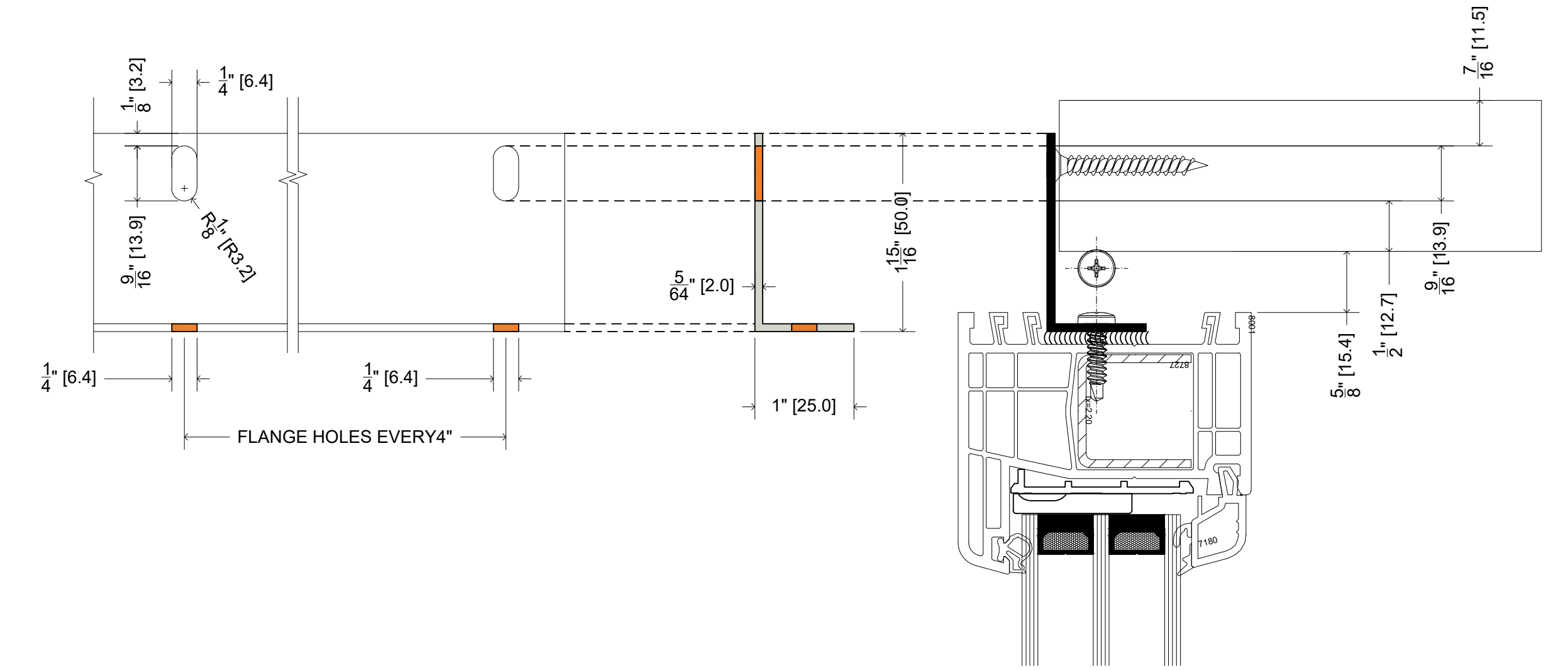
2 CONNECT WINDOWS TOGETHER



3 LOCATE PRE-CUT FULL LENGTH ALUMINUM FLANGE

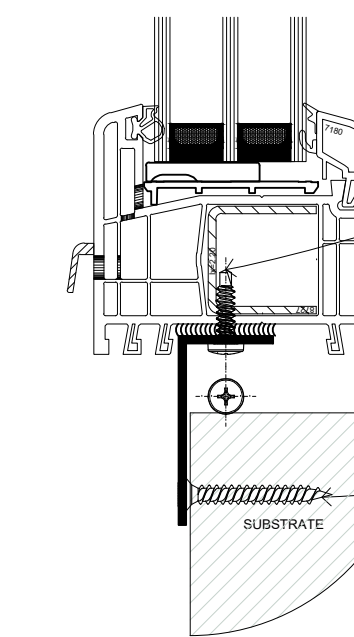


4 FASTEN ALUMINUM FLANGE TO WINDOW. 6" FROM CORNERS & EVERY 12" O.C.

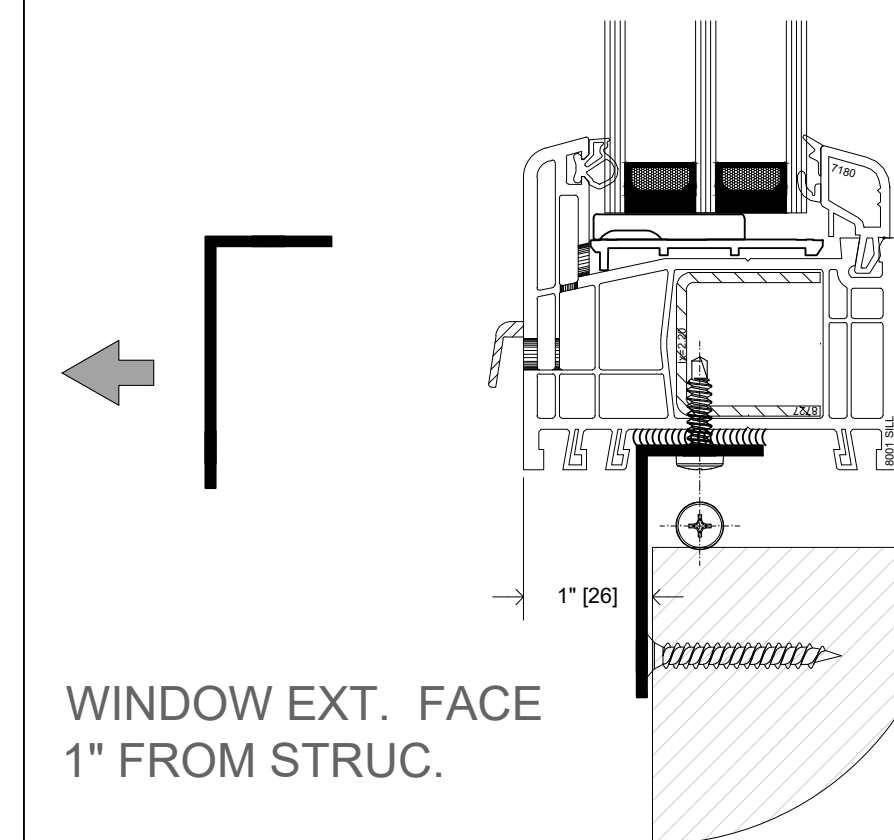
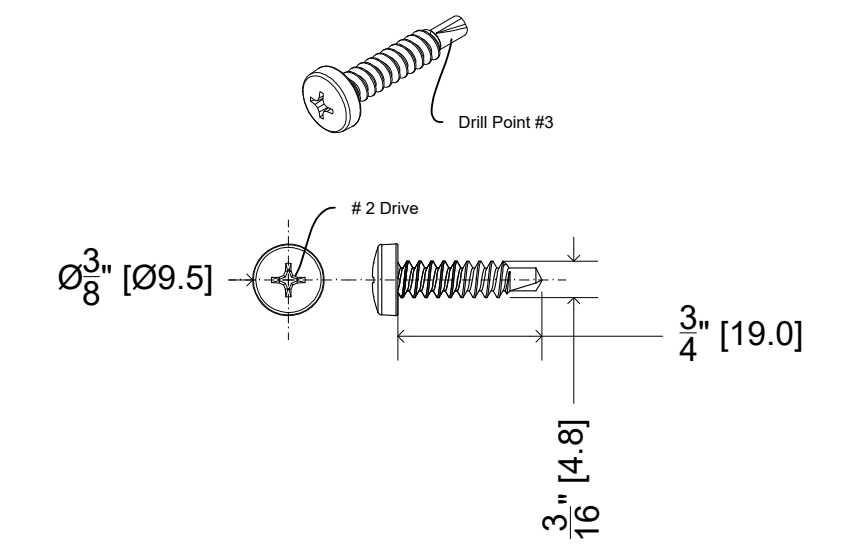


NAILING FLANGE GAUGE 16

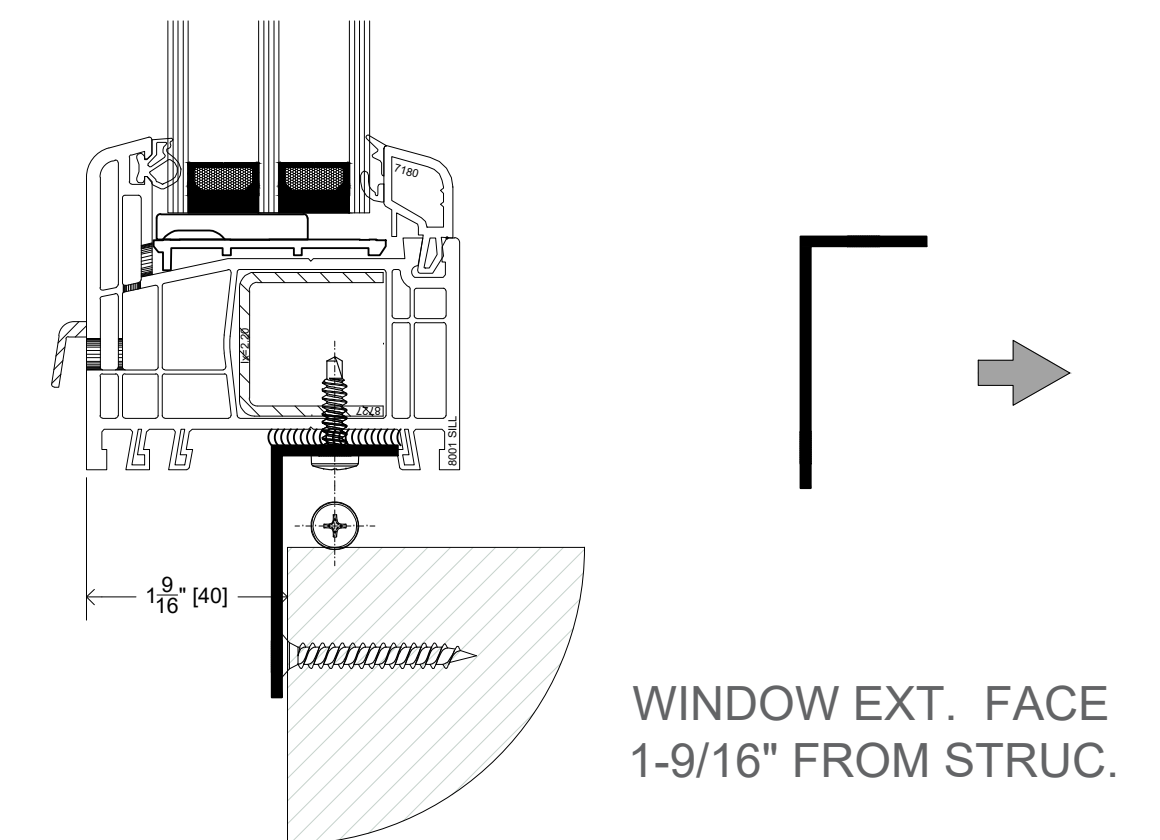
SCALE: 10" = 1'-0"



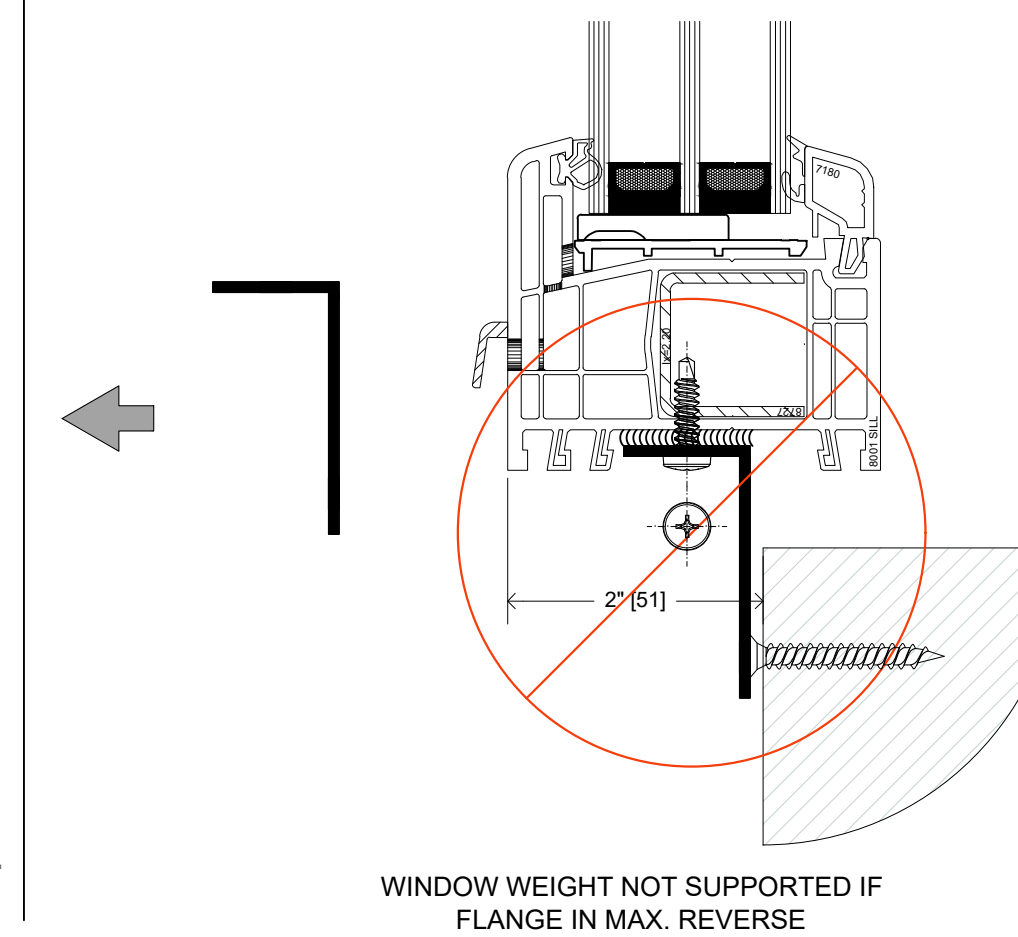
SELF-DRILLING PAN HEAD PHILLIPS SHEET METAL SCREW (B.I.W.) $\varnothing 3/8" \times 1 1/2"$ (4.8mm x 19mm)
SCREW VARIES ACCORDING TO SUBSTRATE MATERIAL NOT PROVIDED BY INTUS



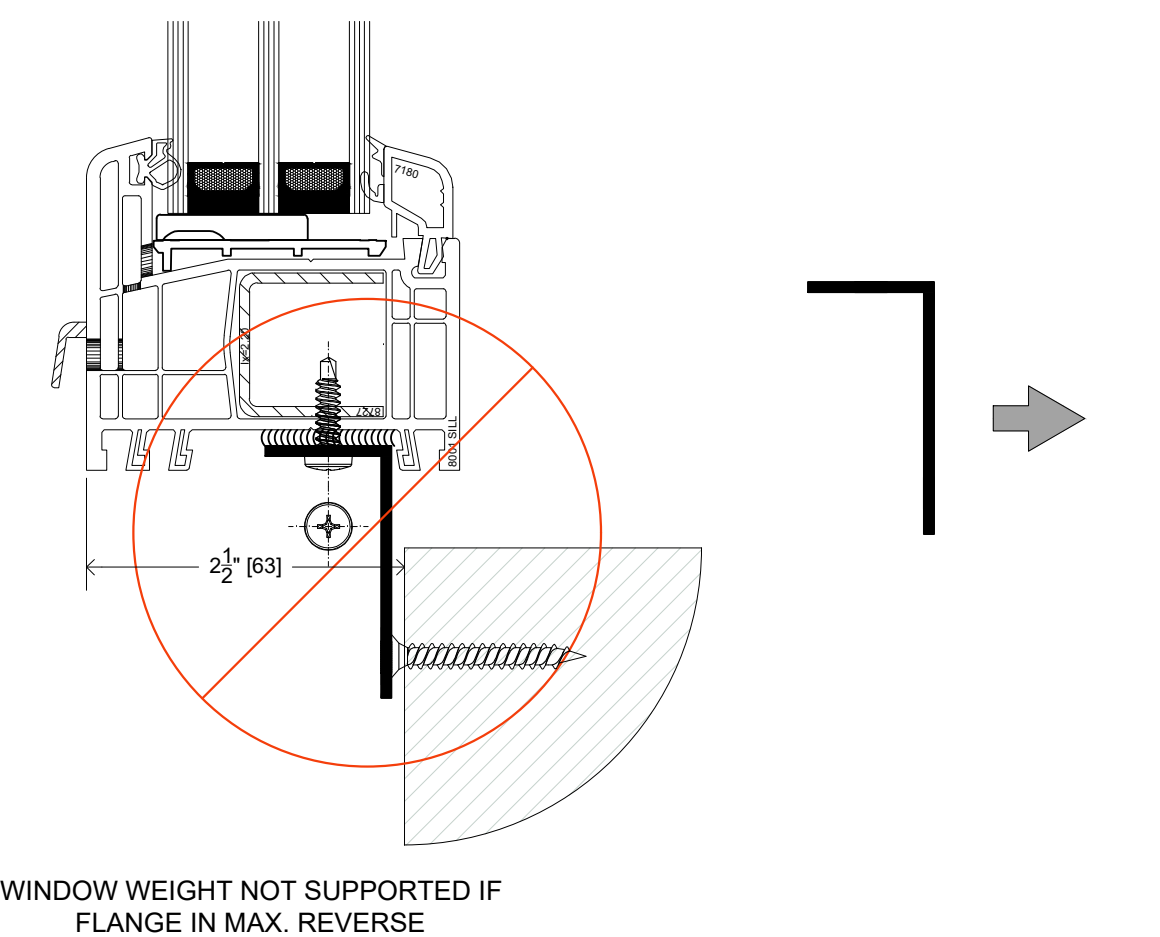
WINDOW EXT. FACE 1" FROM STRUC.



WINDOW EXT. FACE 1-9/16" FROM STRUC.



WINDOW WEIGHT NOT SUPPORTED IF FLANGE IN MAX. REVERSE



WINDOW WEIGHT NOT SUPPORTED IF FLANGE IN MAX. REVERSE

DO NOT INSTALL FLANGE IN REVERSE



Round Rock Premium Outlets
Round Rock, TX

U.S. Aluminum knows that fabrication and installation labor costs have always been a decisive factor in selecting framing systems for storefront projects. We offer cost efficient and versatile systems with clean lines and superb performance characteristics. All series may be glazed from the interior or exterior using a top load E.P.D.M. glazing gasket, and all series are compatible with most U.S. Aluminum Entrance Doors.

U.S. Aluminum Storefront Systems can be custom modified to the specific requirements of your project. Our product specialists will work with you to ensure the storefront system you order from us will meet your needs and the approval of your clients.

SYSTEM

PAGES

- **Series 400/450 Center Glaze**01-B1 thru 29-B1
- **Series 451/IT451 Center Glaze**30-B1 thru 56-B1
- **Flush Front™**01-B2 thru 44-B2
- **Accessory Hardware**01-B3 thru 04-B3

For information or other assistance, use our toll free phone
or fax service numbers from anywhere in the U.S. or Canada

Toll Free Phone (800) 262-5151

Toll Free Fax (866) 262-3299

Contact us through our web site at usalum.com

STOREFRONTS

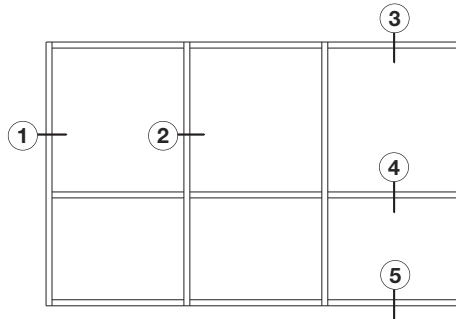
Typical Details

Center Glazed • Series 451

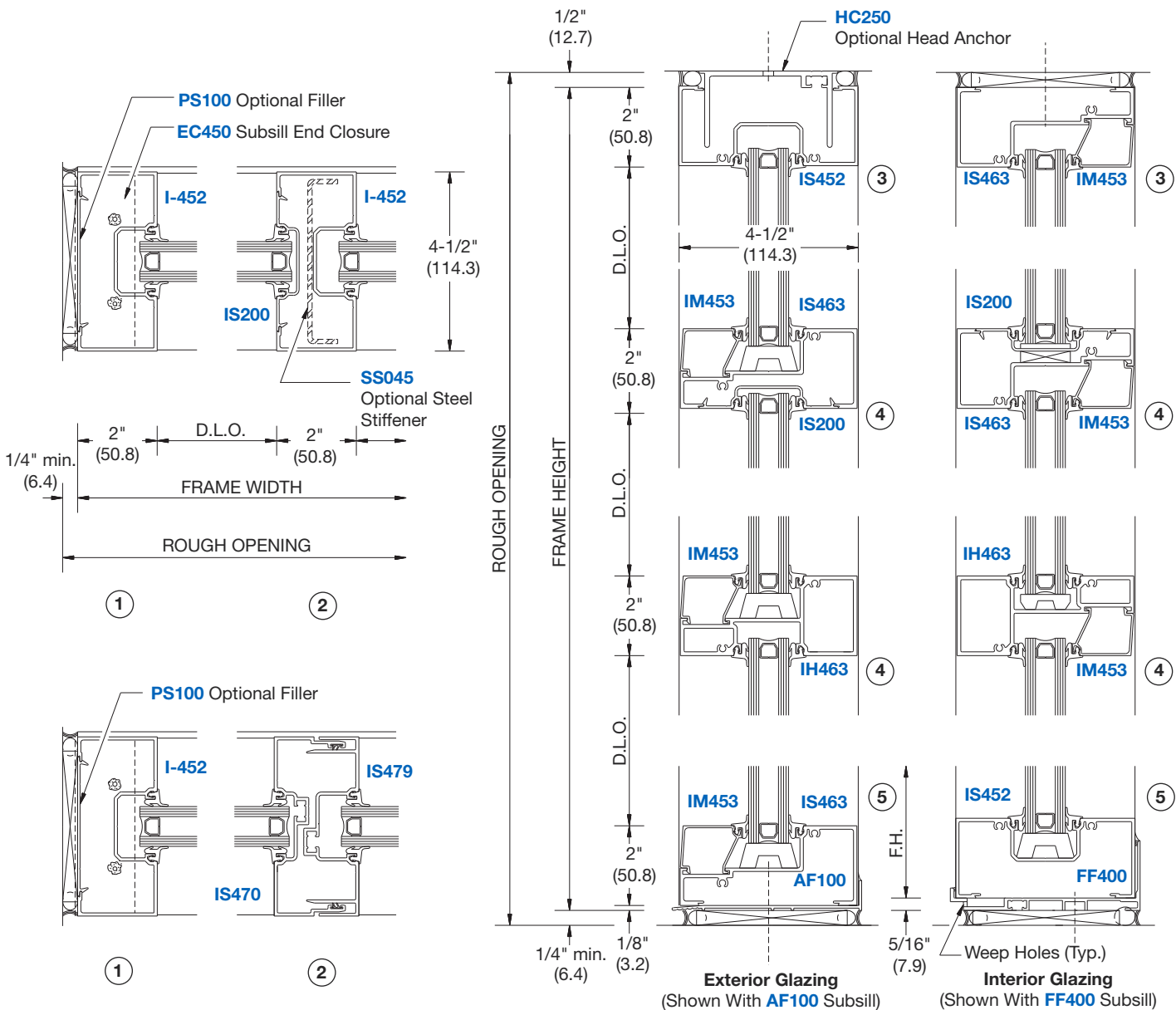
SCREW RACE JOINERY FOR 1" (25) GLAZING

NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit usalum.com for more information.

NOTE: NP225 Glazing Gaskets are used on both sides of 1" (25) glazing. (Typical)



TYPICAL ELEVATION



NOT TO SCALE

Online usalum.com By Phone (800) 262-5151
 Online crlaurence.com By Phone (800) 421-6144

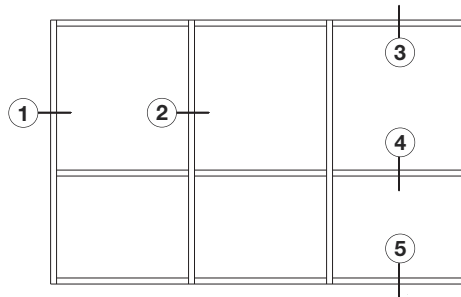
STOREFRONTS

Typical Details

Center Glazed • Series 451

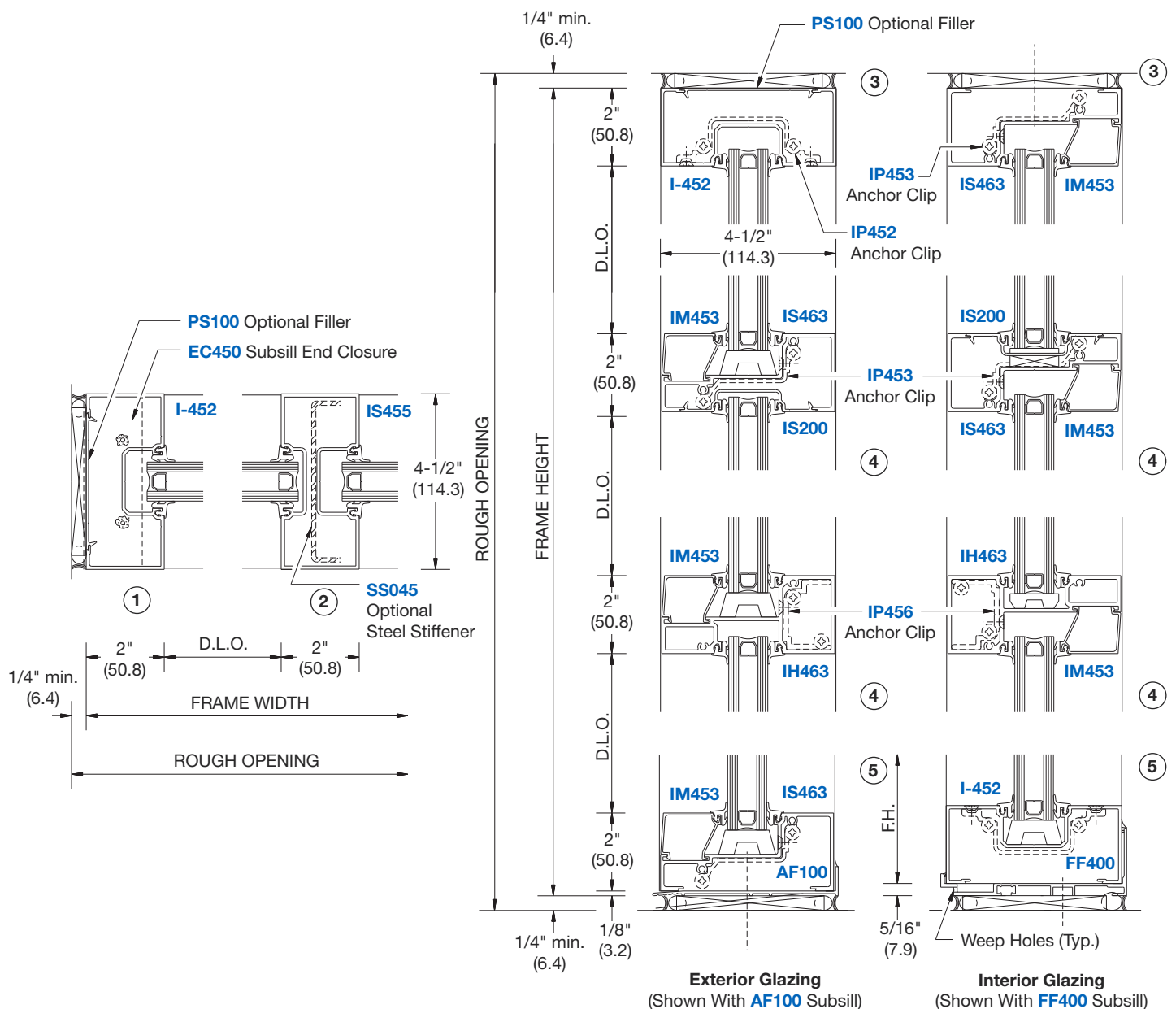
ANCHOR CLIP JOINERY FOR 1" (25) GLAZING

NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit usalum.com for more information.



TYPICAL ELEVATION

NOTE: NP225 Glazing Gaskets are used on both sides of 1" (25) glazing. (Typical)



STOREFRONTS

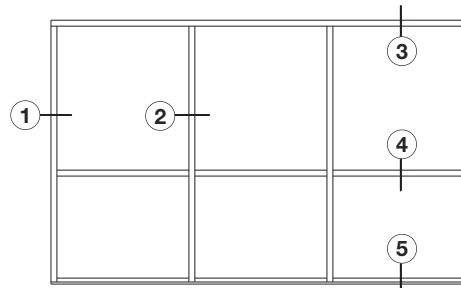
Typical Details

Center Glazed • Series 451-S

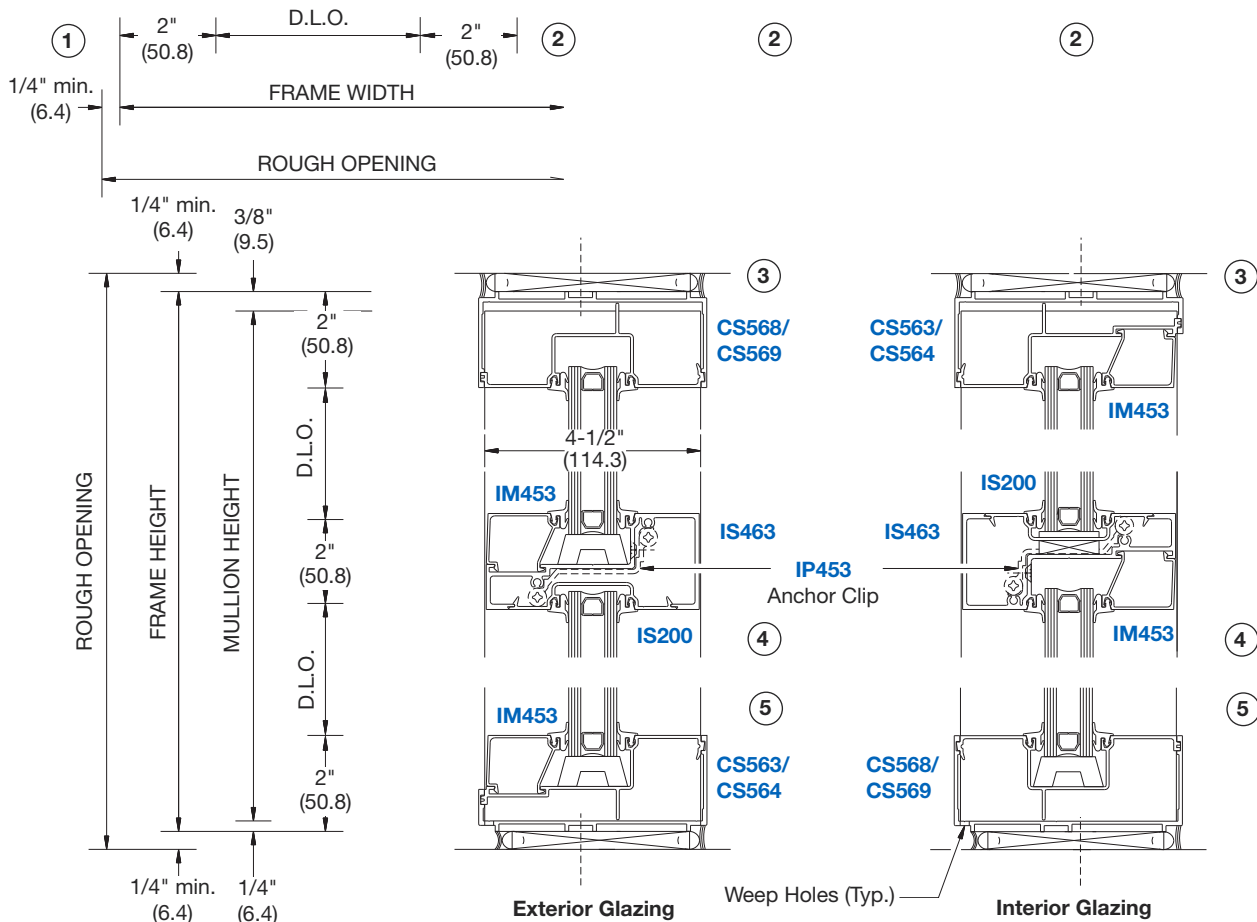
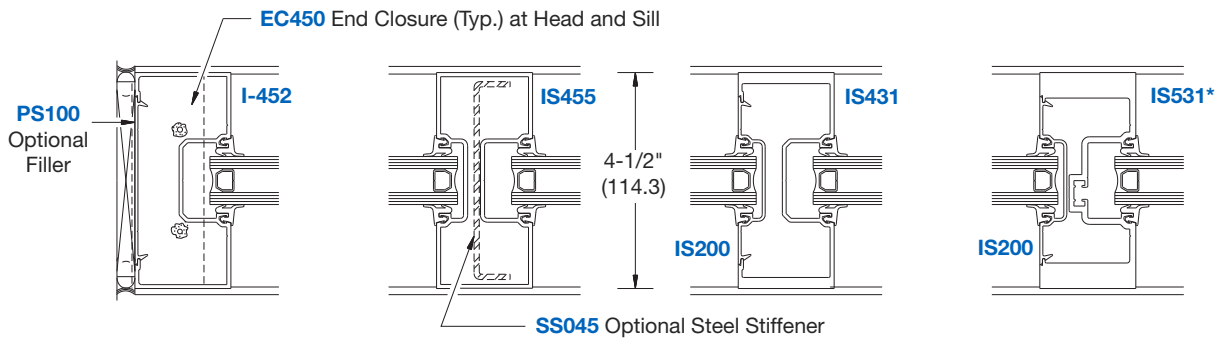
STACKING INSTALLATION FOR 1" (25) GLAZING

NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths.
*IS531 Available in 12' (3.6 m) only.
Visit usalum.com for more information.

NOTE: NP225 Glazing Gaskets are used on both sides of 1" (25) glazing. (Typical)



TYPICAL ELEVATION



NOT TO SCALE

Online usalum.com By Phone (800) 262-5151
Online crlaurence.com By Phone (800) 421-6144

Typical Details

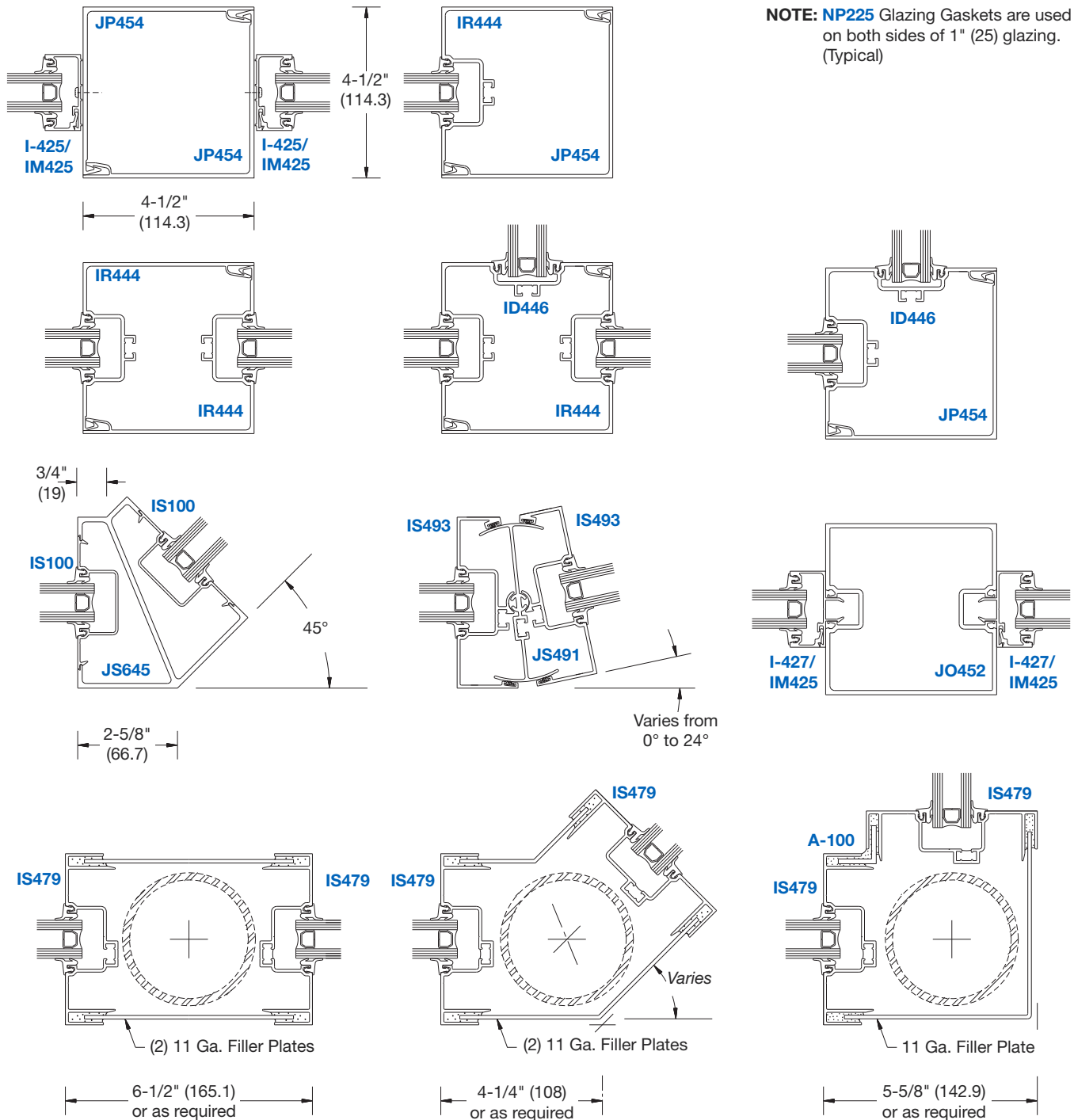
Center Glazed

- Series 451
- Series 451-S

VERTICAL CORNER CONDITIONS AND POST COVERS FOR 1" (25) GLAZING

NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit usalum.com for more information.

NOTE: NP225 Glazing Gaskets are used on both sides of 1" (25) glazing. (Typical)



NOT TO SCALE

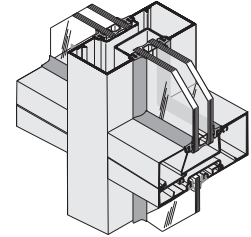
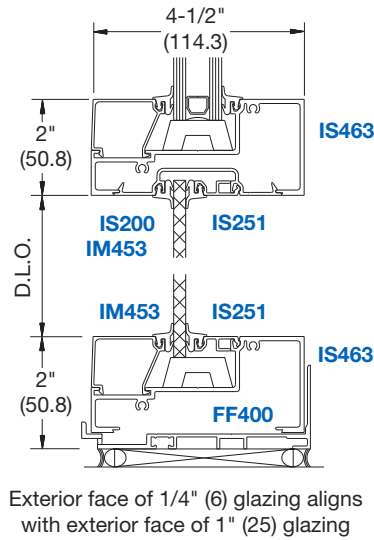
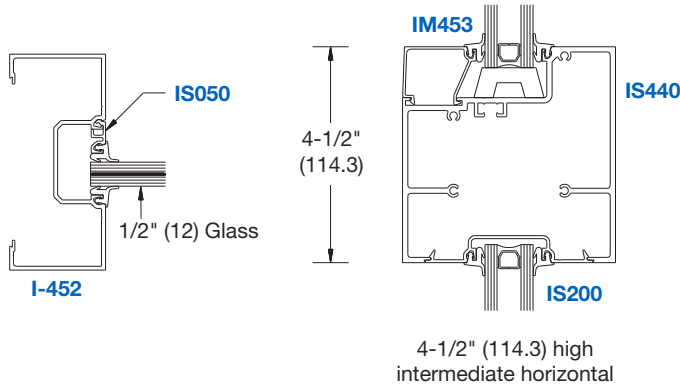
STOREFRONTS

Typical Details

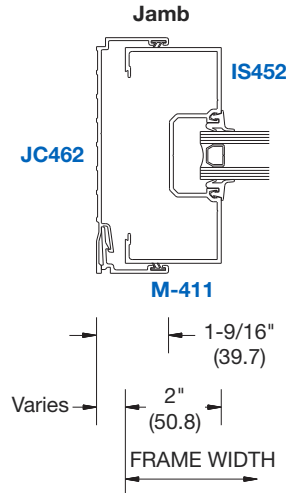
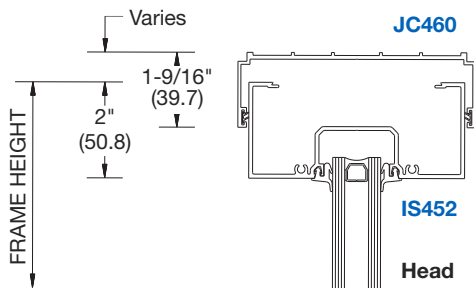
SPECIAL GLASS ADAPTORS AND TRANSITION GLAZING USING 1/4" (6), 1/2" (12), AND 1" (25) GLAZING

Center Glazed
 • Series 451
 • Series 451-S

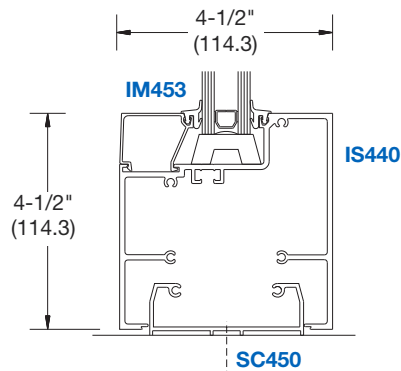
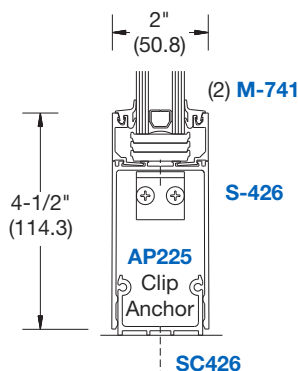
NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit usalum.com for more information.



COMPENSATING CHANNELS (FOR HEAD AND JAMBS)



BULKHEADS (IN LIEU OF STANDARD SILLS)



NOT TO SCALE

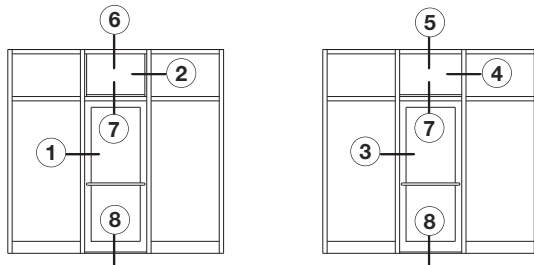
Online usalum.com By Phone (800) 262-5151
 Online crlaurence.com By Phone (800) 421-6144

STOREFRONTS

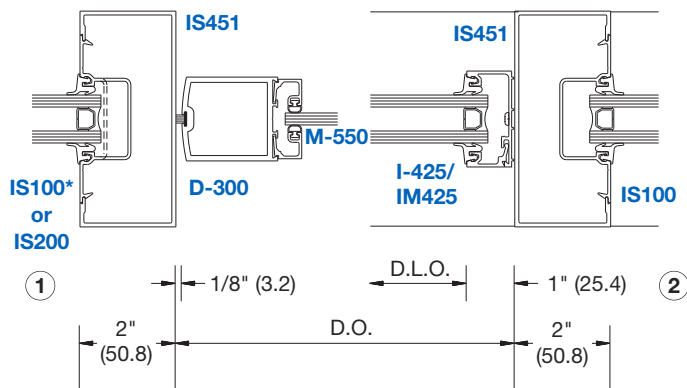
Typical Details

DOOR FRAMING

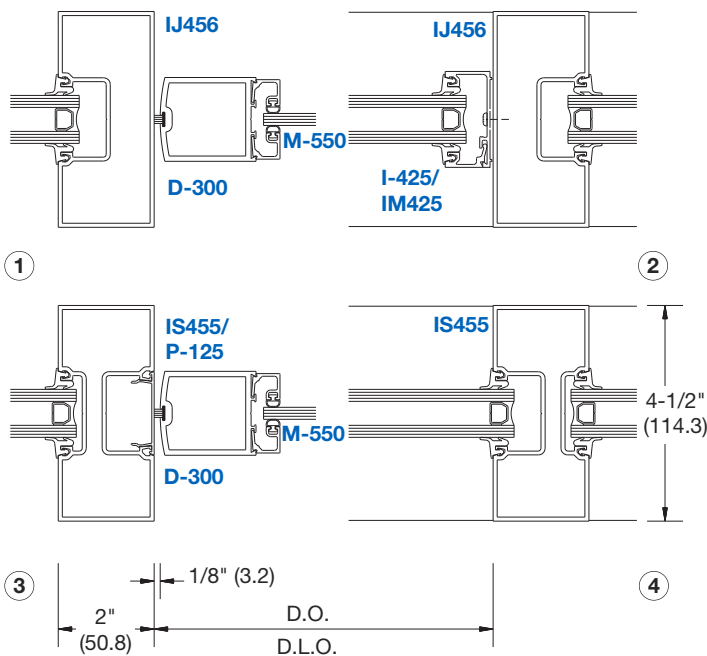
NOTE: Door Frames are available in stock to accommodate 36" x 84" (914 x 2134) and 72" x 84" (1829 x 2134) door openings. Visit usalum.com for more information.



CENTER HUNG DOOR

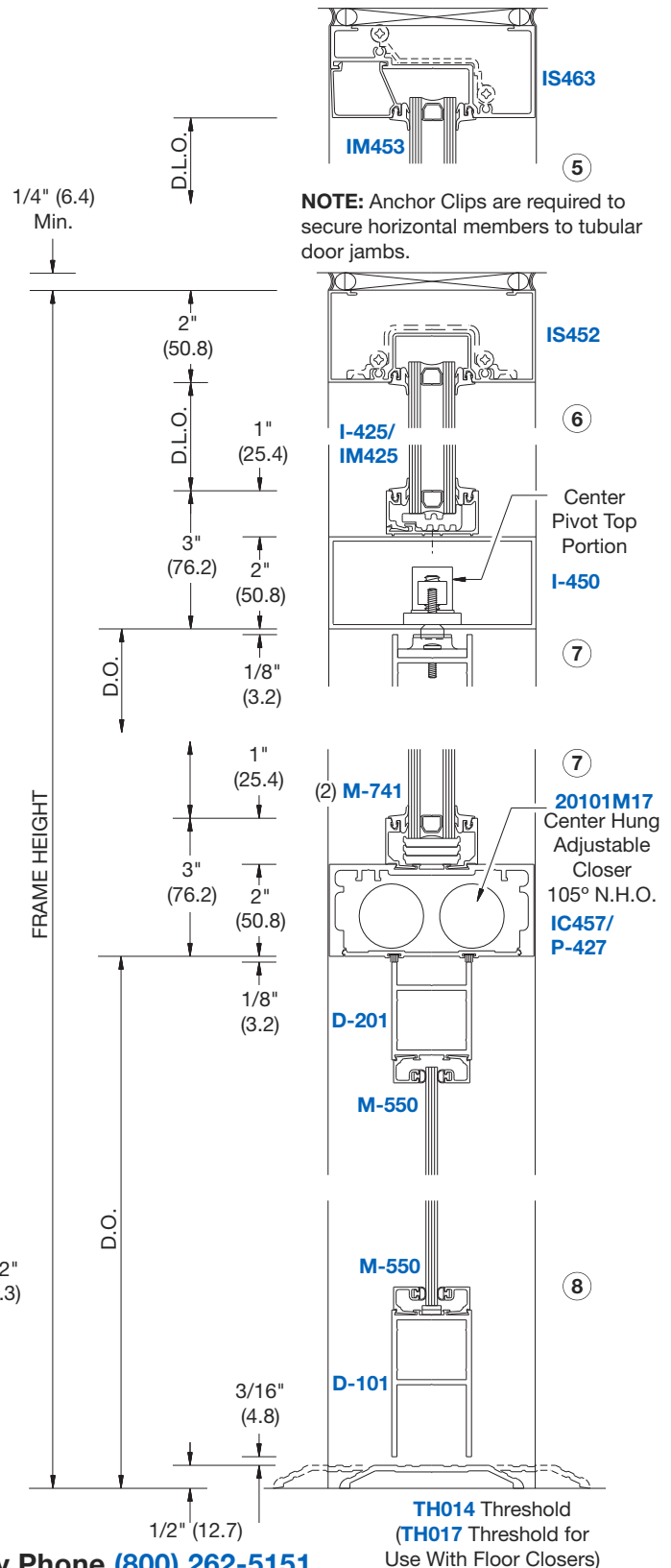


***NOTE:** IS100 Insert is required to install glass between doors



Center Glazed

- Series 451
- Series 451-S



NOTE: Anchor Clips are required to secure horizontal members to tubular door jambs.

NOT TO SCALE

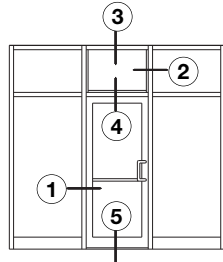
Online usalum.com By Phone (800) 262-5151
 Online crlaurence.com By Phone (800) 421-6144

STOREFRONTS

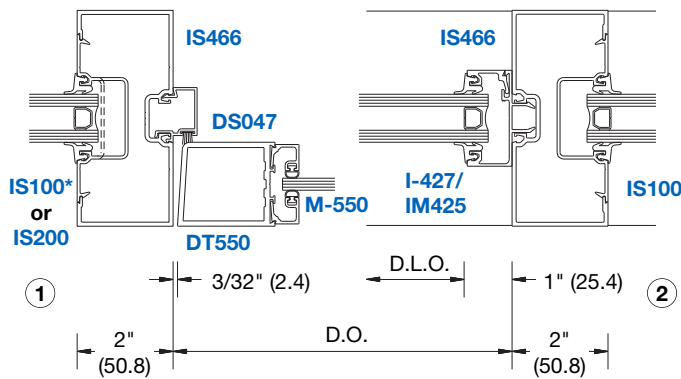
Typical Details

DOOR FRAMING

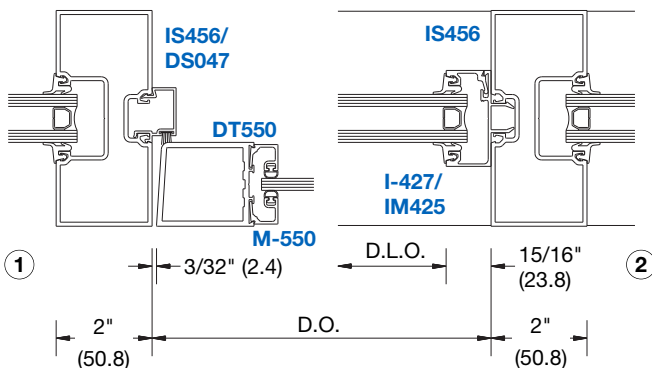
NOTE: Door Frames are available in stock to accommodate 36" x 84" (914 x 2134) and 72" x 84" (1829 x 2134) door openings. Visit usalum.com for more information.



OFFSET HUNG DOORS



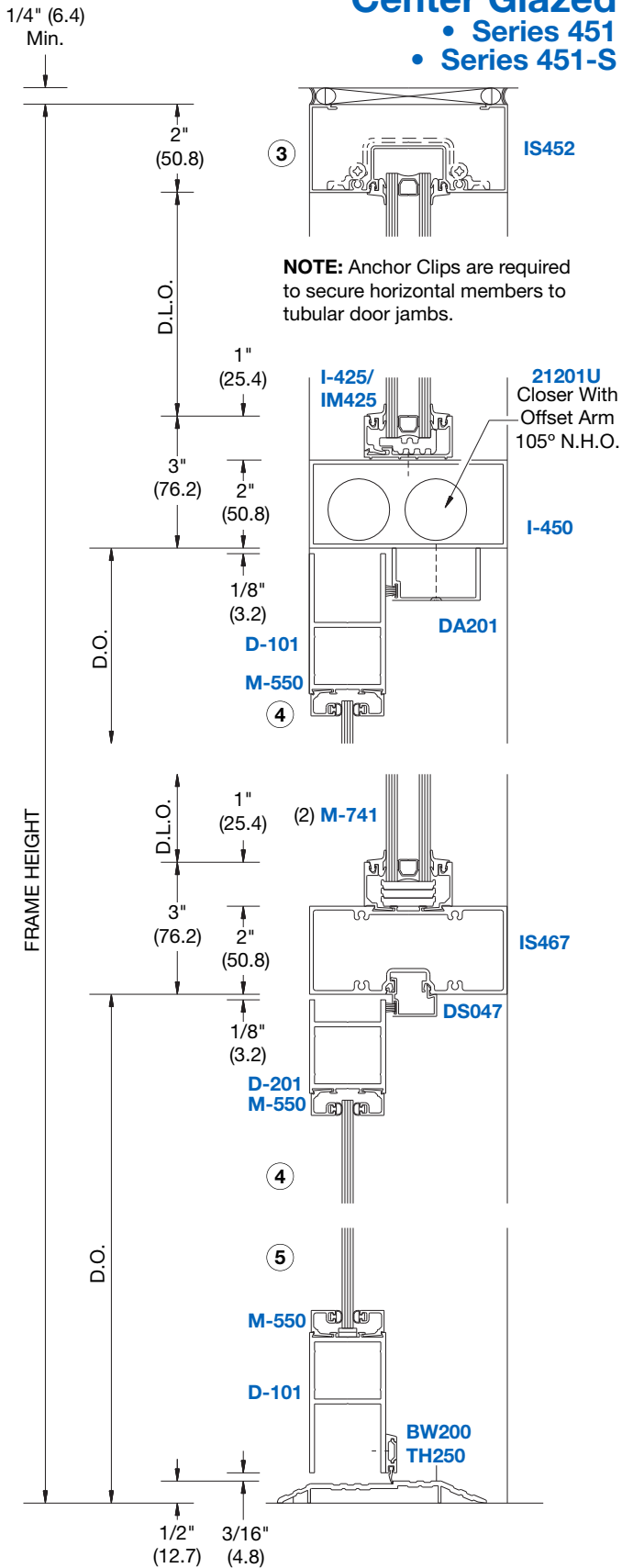
*NOTE: IS100 Insert is required to install glass between doors



NOT TO SCALE

Center Glazed

- Series 451
- Series 451-S



STOREFRONTS

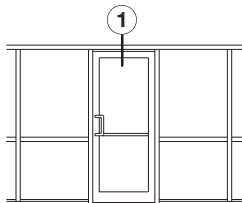
Typical Details

DOOR FRAMING SPECIAL CONDITIONS

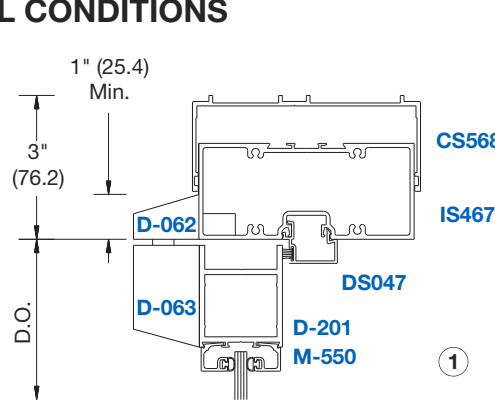
NOTE: Door Frames are available in stock to accommodate 36" x 84" (914 x 2134) and 72" x 84" (1829 x 2134) door openings. Visit usalum.com for more information.

Center Glazed

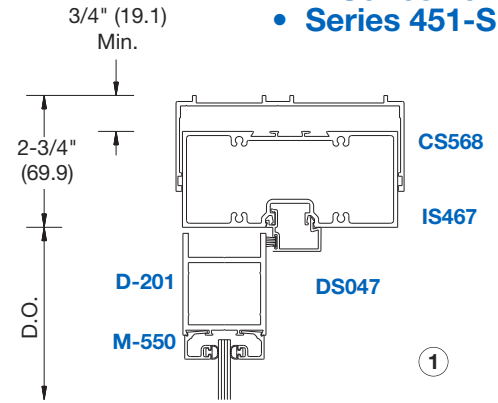
- Series 451
- Series 451-S



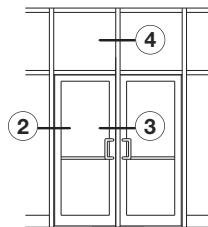
Series 451-S Door Header



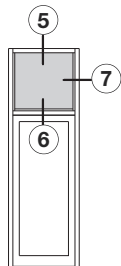
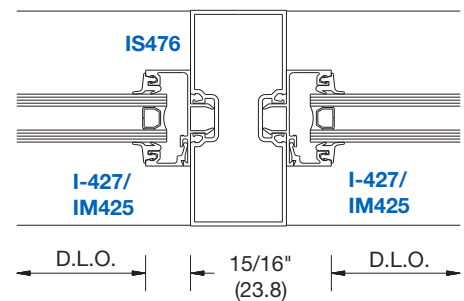
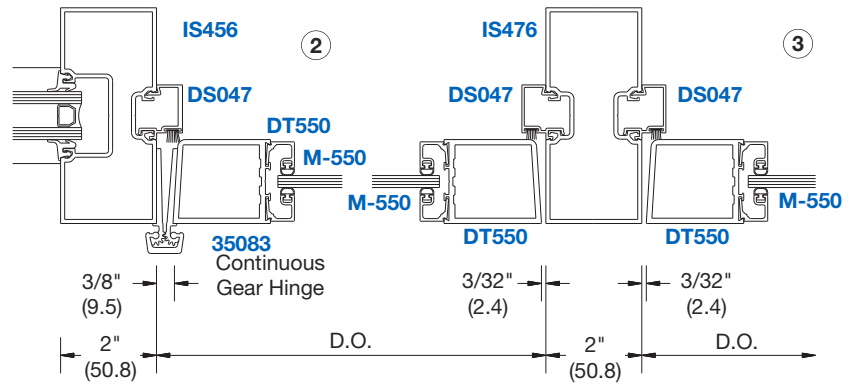
Offset Pivoted Door



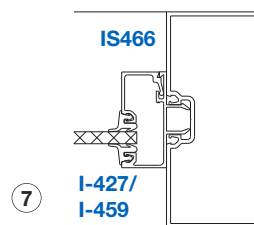
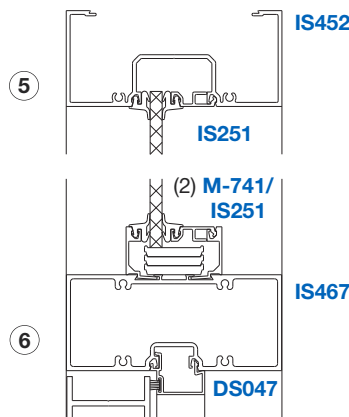
Butt Hung Door



Optional Hinge and Intermediate Door Jamb



Spandrel Transom



NOT TO SCALE

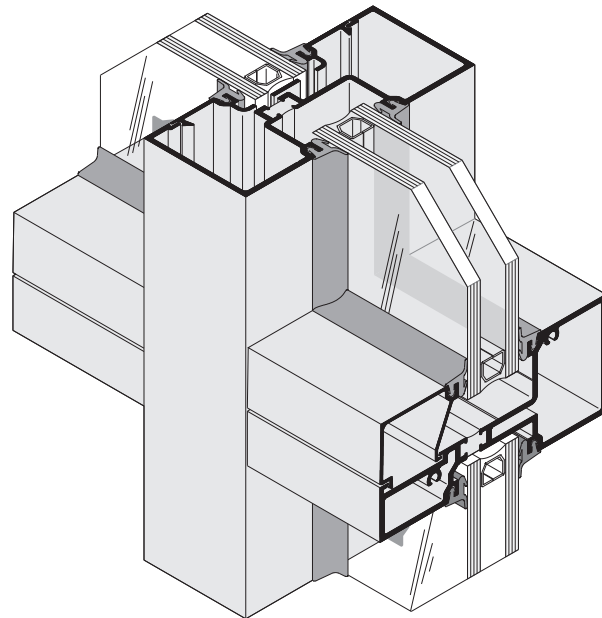
STOREFRONTS

Technical Data

Thermal Center Glazed

- Series IT451
- Series IT451-S

Series IT451 and IT451-S Thermal Center Glazed Systems offer an outstanding value by combining increased thermal performance with low-cost conventional flush glazing. These systems feature the Poly-Aluminizer™ and Lancer™ Thermal Break Technologies with a Two Year Warranty as described in the Warranty for Thermally Broken Framing Systems. They were especially engineered to satisfy the increasing demands for energy conservation. Both series may be glazed from the interior or exterior, and are well suited for storefront applications requiring increased thermal performance. See page 01-B3 for E.P.D.M. gasket options.



SERIES	WIDTH	DEPTH	GLAZING INFILLS	APPLICATION
IT451 IT451-S	2" (50.8)	4-1/2" (114.3)	1" (25)	Storefronts in Geographic Areas Requiring Thermal Performance

GLASS SIZES*	
Glass Width and Glass Height	= Daylight Opening + 7/8" (22.2).

* These formulae do not take into account glass tolerances. Consult glass manufacturer before ordering glass.

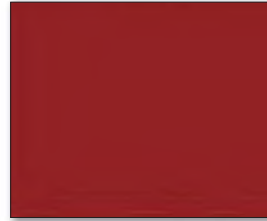
DURANAR® Coatings



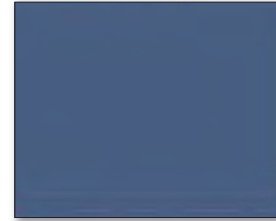
Black
UC70570



Sandstone
UC74745



Redwood
UC74955



Regal Blue
UC70566



Bone White
UC43350



Charcoal
UC74712



Aged Copper
UC74956



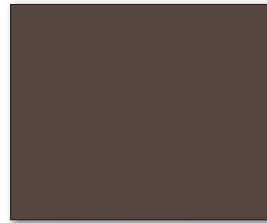
Stone Gray
UC74945



Boysenberry
UC70571



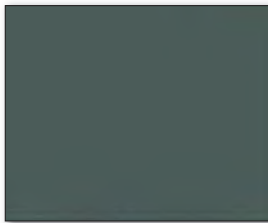
Military Blue
UC70533



Classic Bronze
UC74957



Teal
UC70567



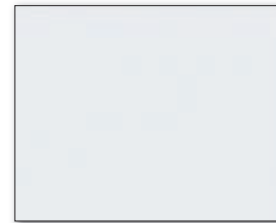
Hartford Green
UC70572



Pueblo Tan
UC74756



Ivy
UC70569



Stone White
UC74946

DURANAR® SUNSTORM™ Coatings



Asti
UC70390F



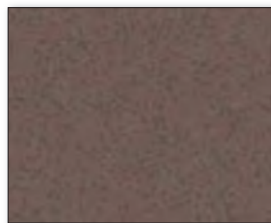
Sea Spray
UC115881F



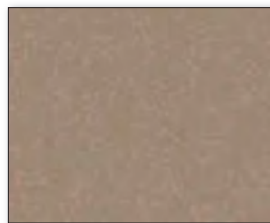
Gold
UC70542F



Warm Silver
UC70093F



Medium Bronze
UC106692F



Light Bronze
UC106690F



Champagne
UC70202F

These color samples are as close as possible to the actual colors offered within the limitations of color chip reproduction.

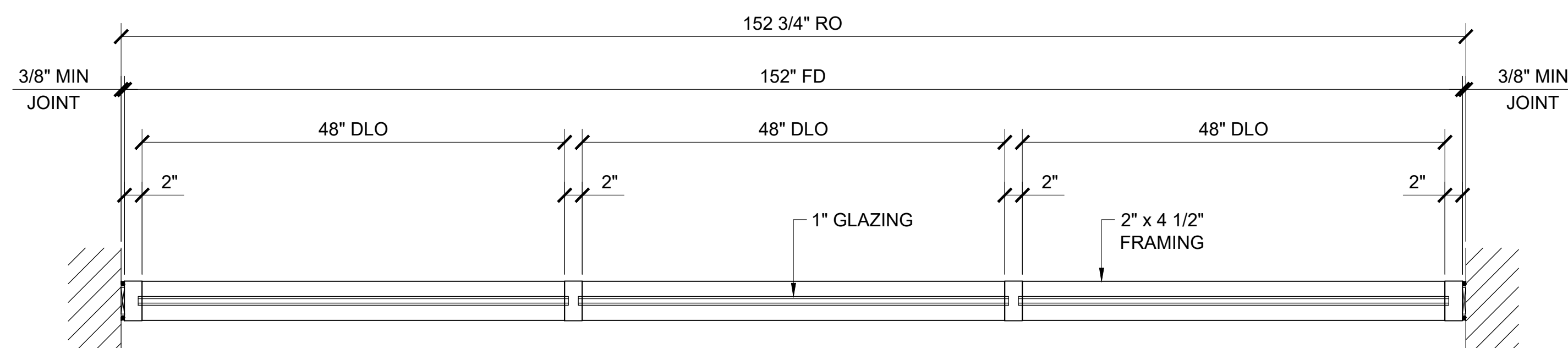
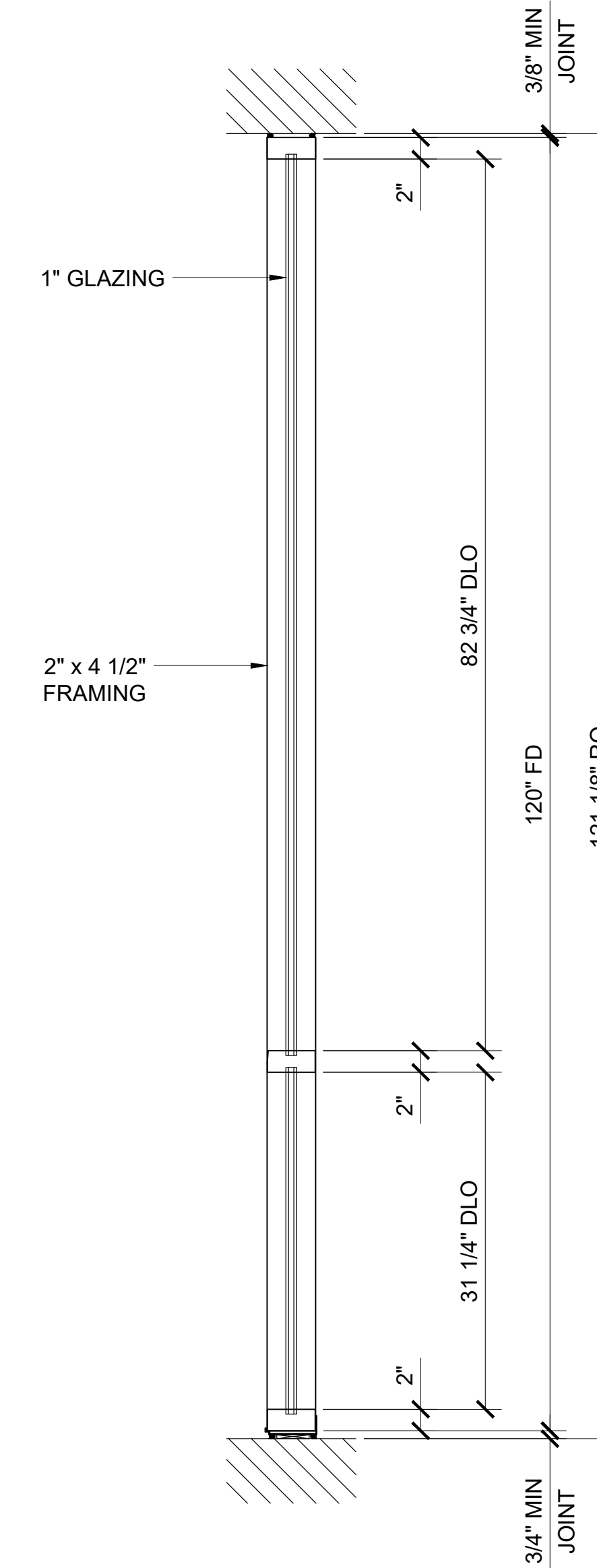
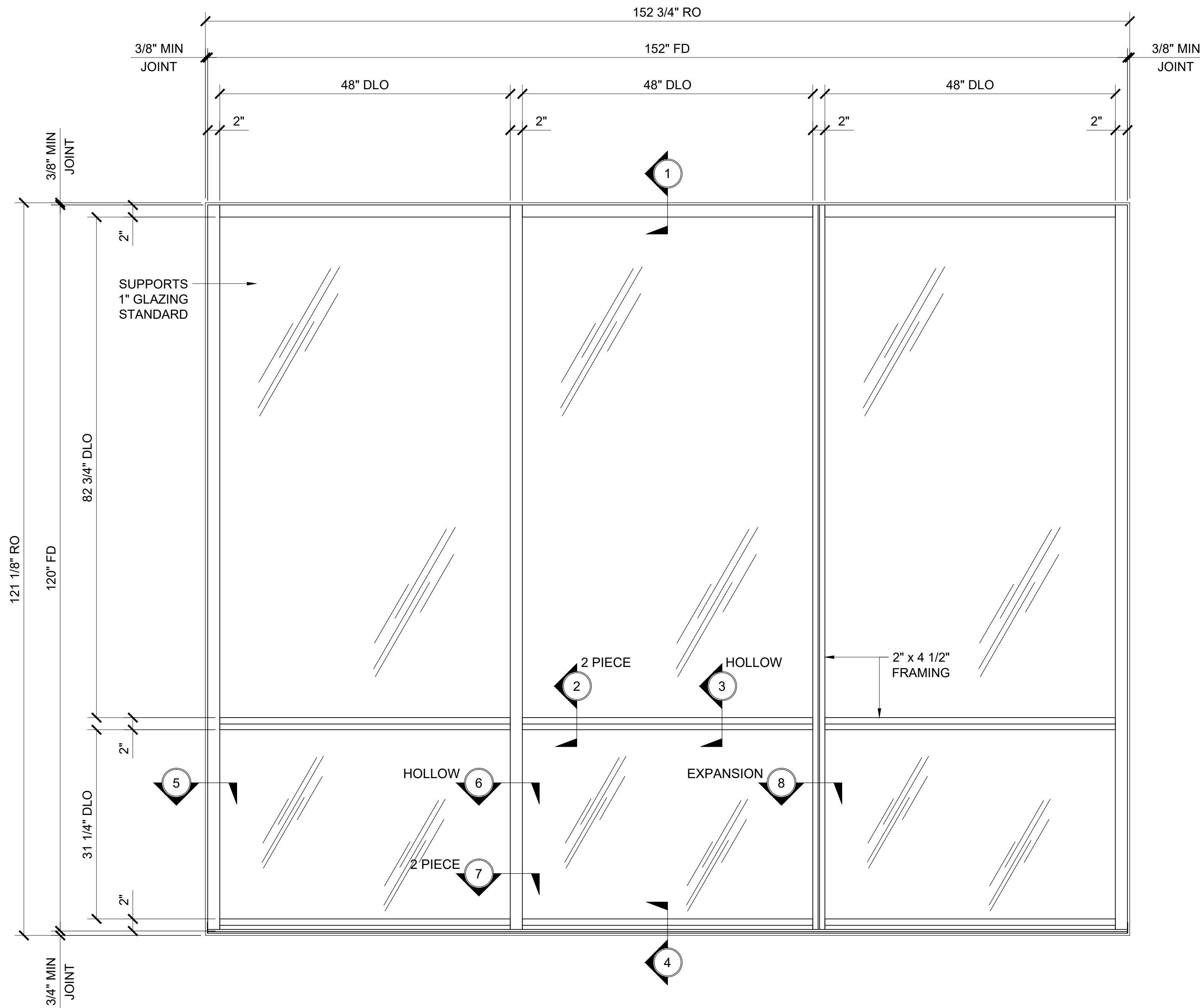
SERIES IT451 CENTER / EXTERIOR GLAZED SHEAR BLOCK STOREFRONT SYSTEM

IT451 SERIES SPECIFICATIONS

Series IT451 offers improved thermal performance using the Poly-Aluminizer™. United States Aluminum offers cost efficient versatile Center Glazed Systems with clean lines and superb performance. Series IT451 may be interior or exterior glazed. A top load EPDM gasket is used to position and weatherseal the glass in the aluminum pocket. Center Glazed Systems are compatible with most United States Aluminum entrance doors.

- 2" x 4 1/2" frame
- 1" Glazing infill (SHOWN) Optional snap-in reducers for 1/4" or 1/2" glass are available
- Struct-Link™ thermal break
- Full range of accessory components
- Available in an array of architectural coatings and anodized finishes
- Screw spline assembly
- Shear block assembly (SHOWN)
- Stacking installation option
- Interior or Exterior Glazed (EXTERIOR GLAZED OPTION SHOWN)

GLASS SIZING NOTE:
REFERENCE U.S. ALUMINUM
CATALOGS AND WEBSITE'S
LOAD CHARTS FOR SIZING
GUIDELINES.



STANDARD ABBREVIATIONS

- RO ROUGH OPENING
- FD FRAME DIMENSION
- DLO DAYLITE OPENING
- DO DOOR OPENING
- DD DOOR DIMENSION
- SMC SURFACE MOUNTED CLOSER
- OHCC OVERHEAD CONCEALED CLOSER

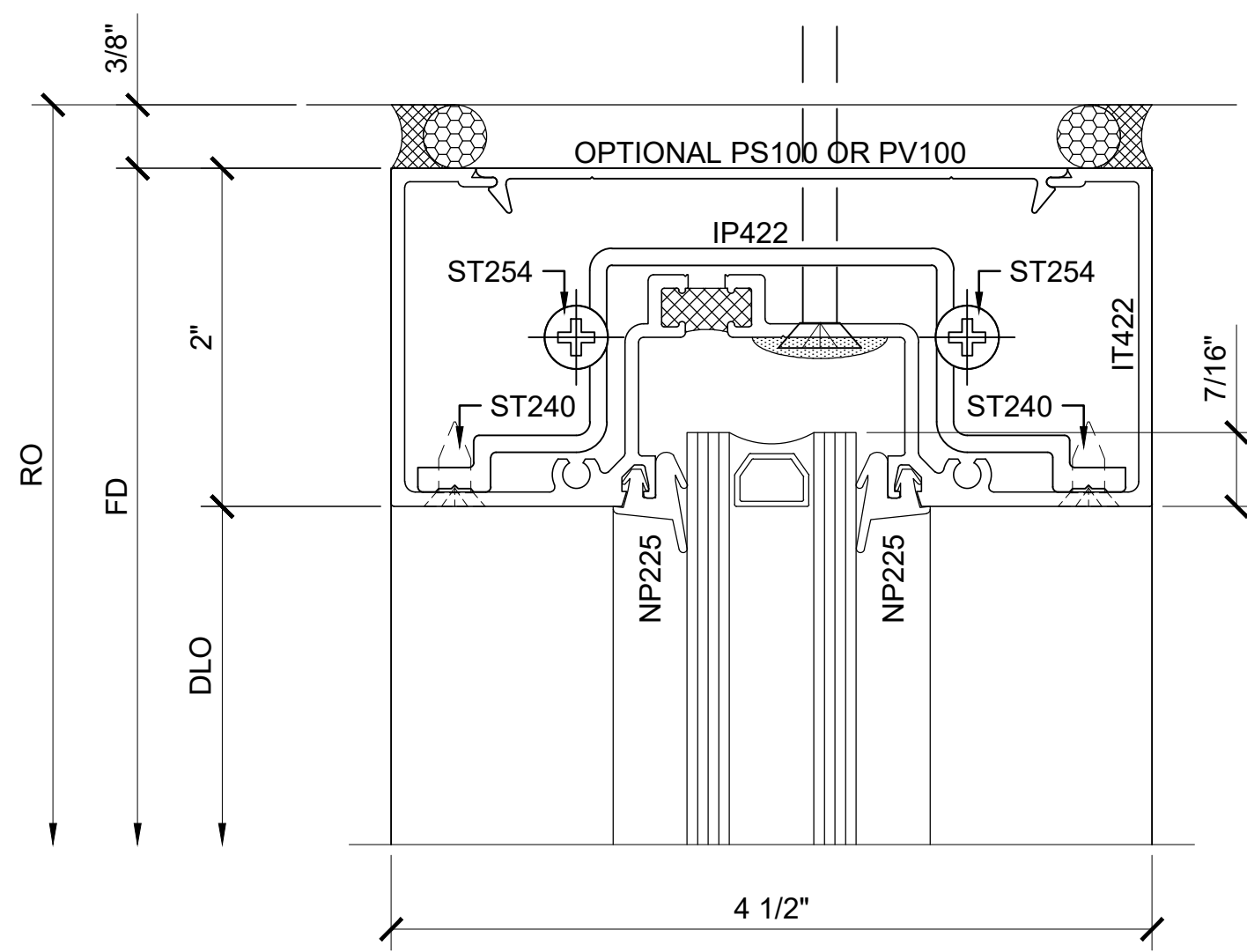
Revisions By:

Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

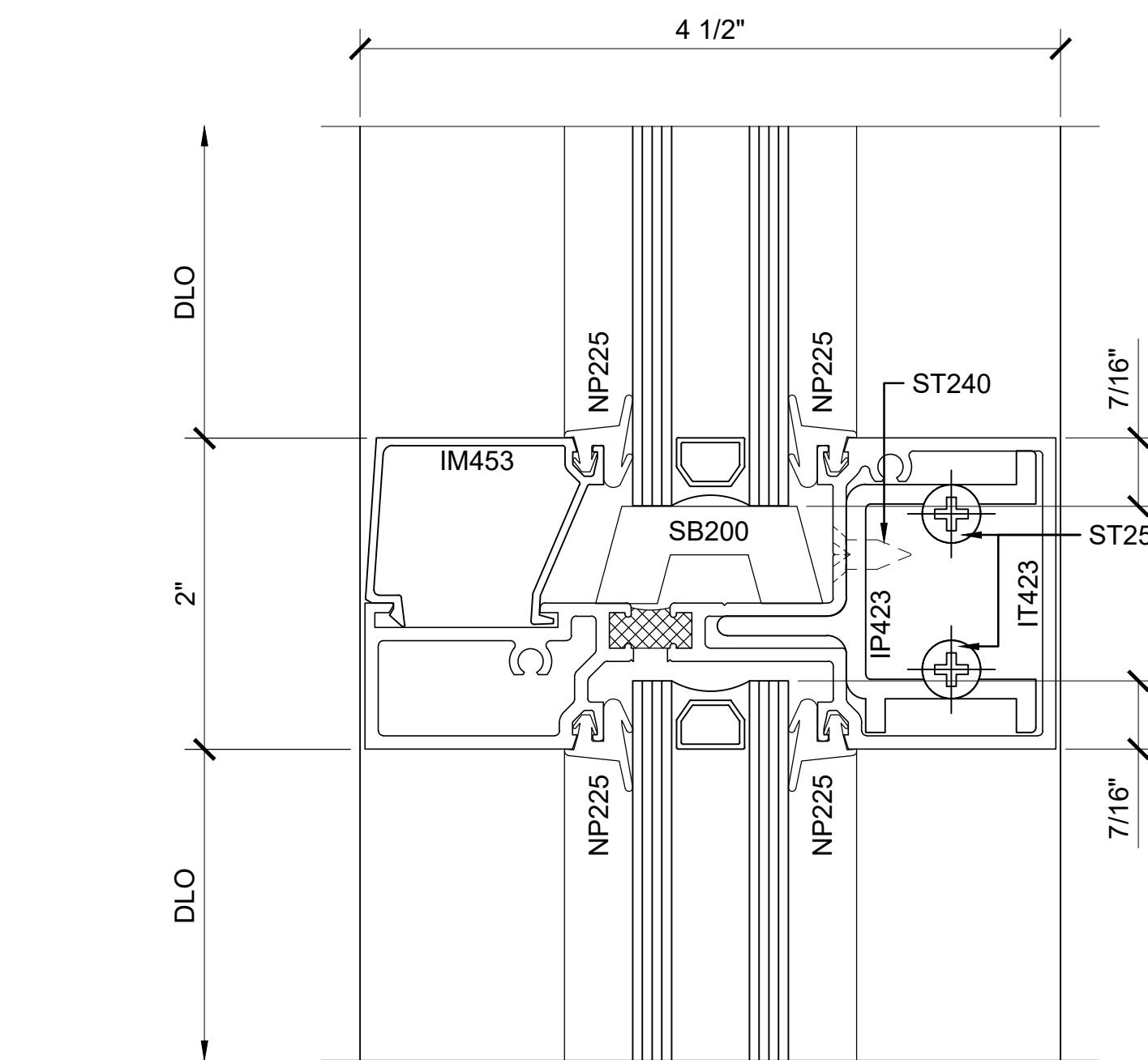
Drawn By: AAD
Date: 4/5/13
Scale: AS NOTED
File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg

Sheet

1.1

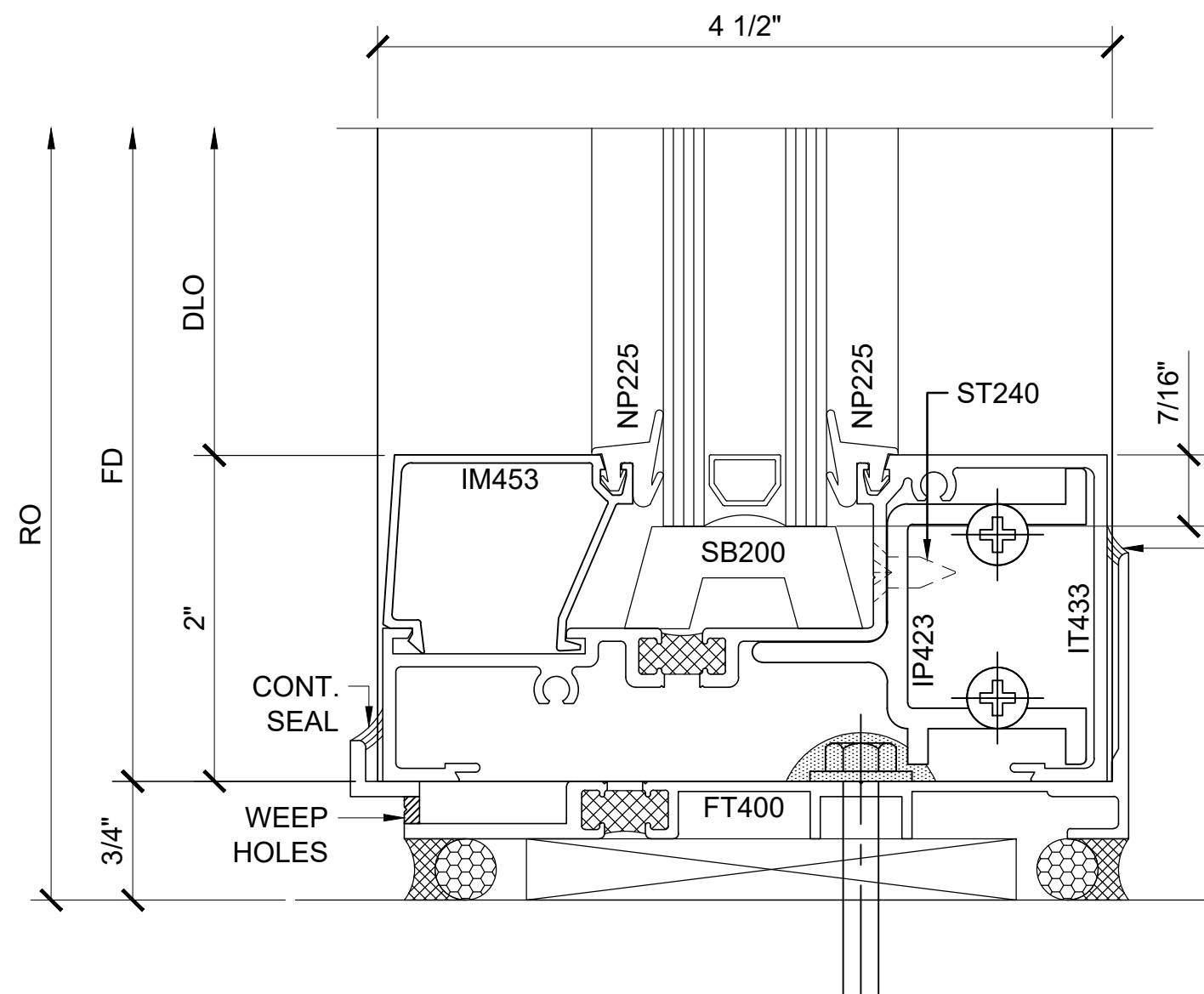


SECTION DETAIL AT HEAD ①

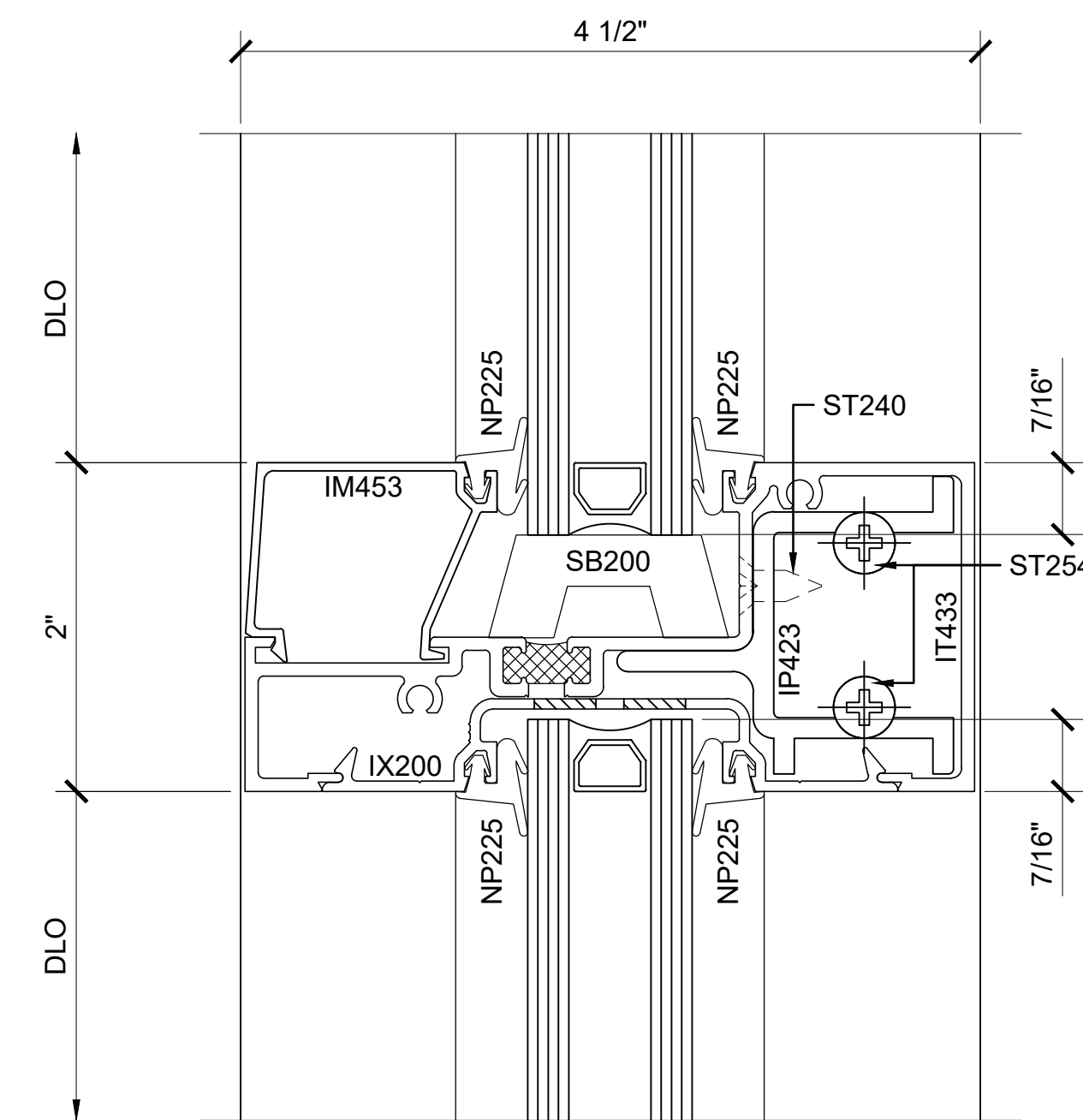


SECTION DETAIL AT INTERMEDIATE HORIZONTAL ②

TYPICAL FOR SHEAR LUG ASSEMBLY

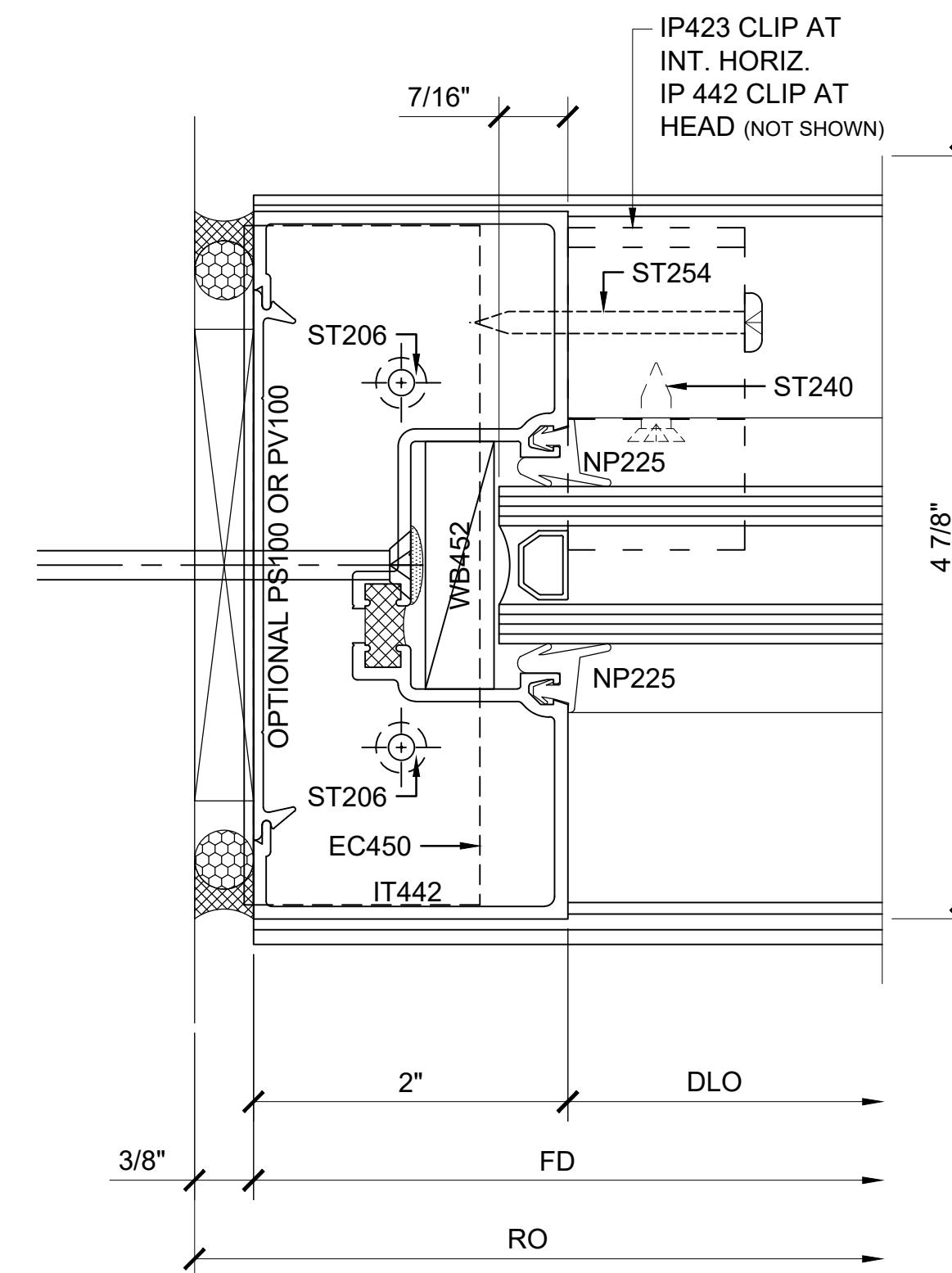


SECTION DETAIL AT SILL ④

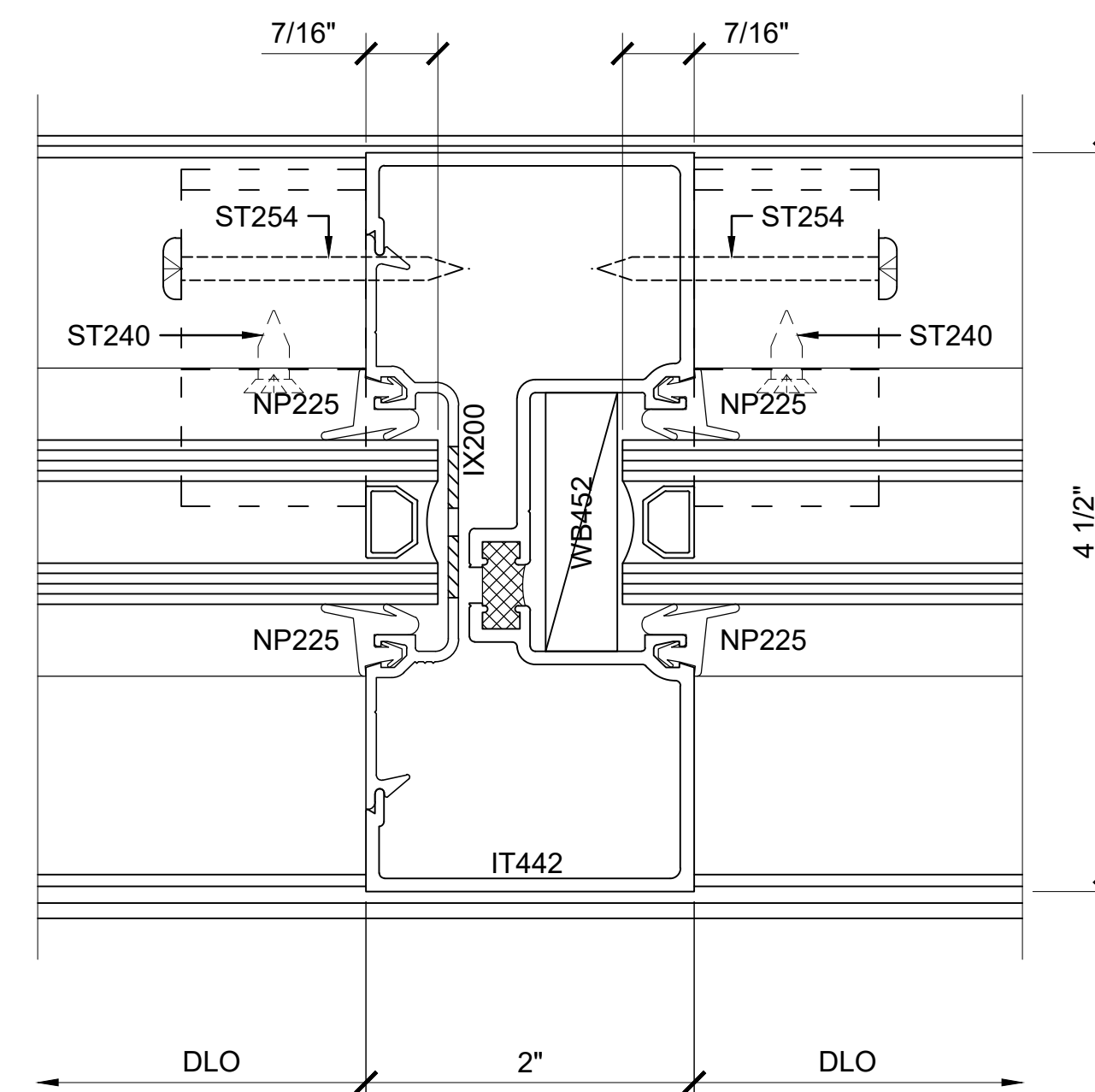


SECTION DETAIL AT INTERMEDIATE HORIZONTAL ③

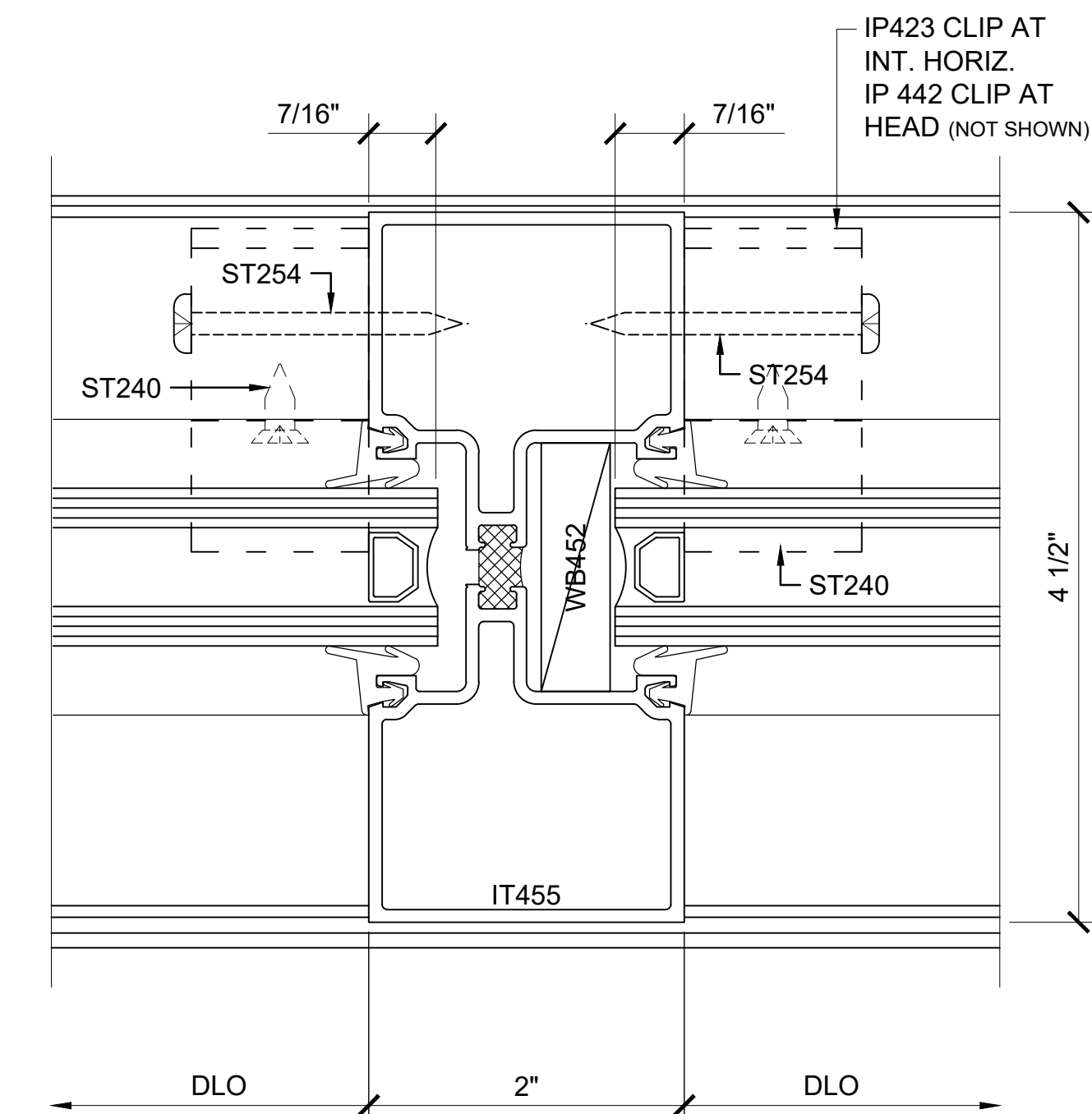
TYPICAL FOR SCREW RACE ASSEMBLY - (SHEAR BLOCK FOR LOAD DISTRIBUTION)



SECTION DETAIL AT JAMB ⑤

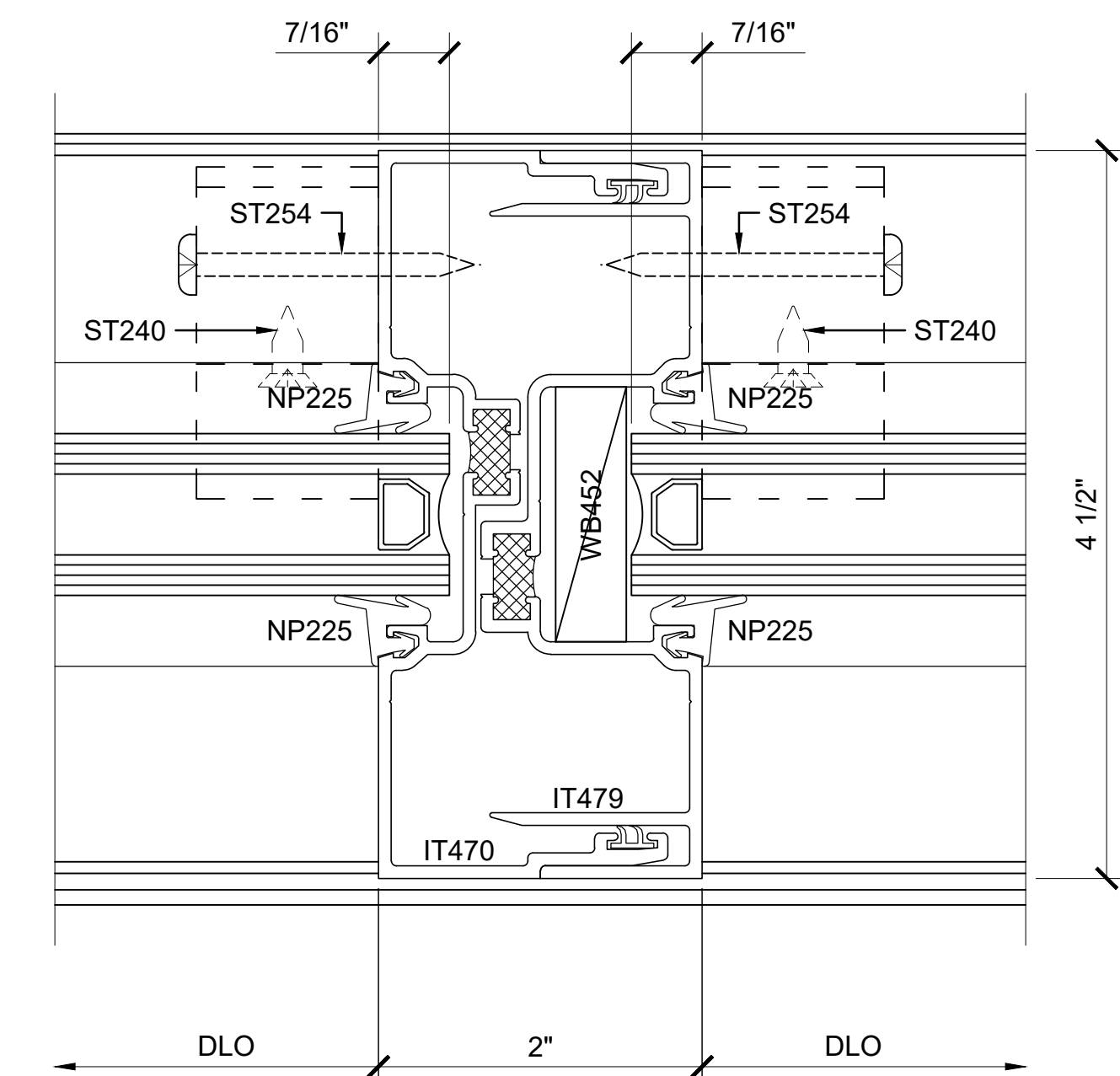


SECTION DETAIL AT 2 PIECE INTERMEDIATE VERTICAL ⑦



SECTION DETAIL AT HOLLOW INTERMEDIATE VERTICAL ⑥

TYPICAL SHEAR BLOCK ASSEMBLY MULLION



SECTION DETAIL AT EXPANSION MULLION ⑧

TYPICAL SCREW RACE ASSEMBLY MULLION

SERIES ITIT451 CENTER / EXTERIOR GLAZED SHEAR BLOCK STOREFRONT SYSTEM

Revisions By:



Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

Drawn By: AAD
 Date: 4/5/13
 Scale: AS NOTED
 File Name: SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM.dwg

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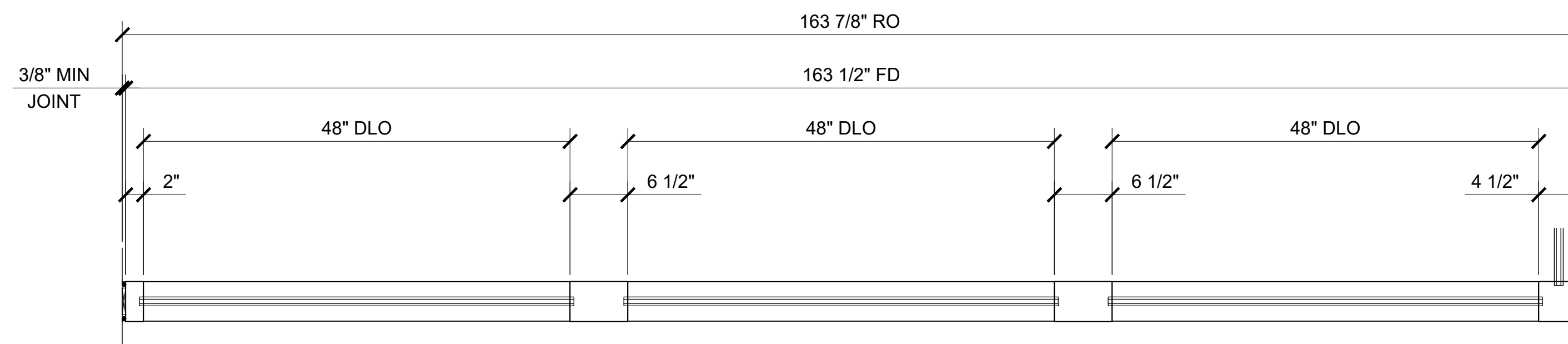
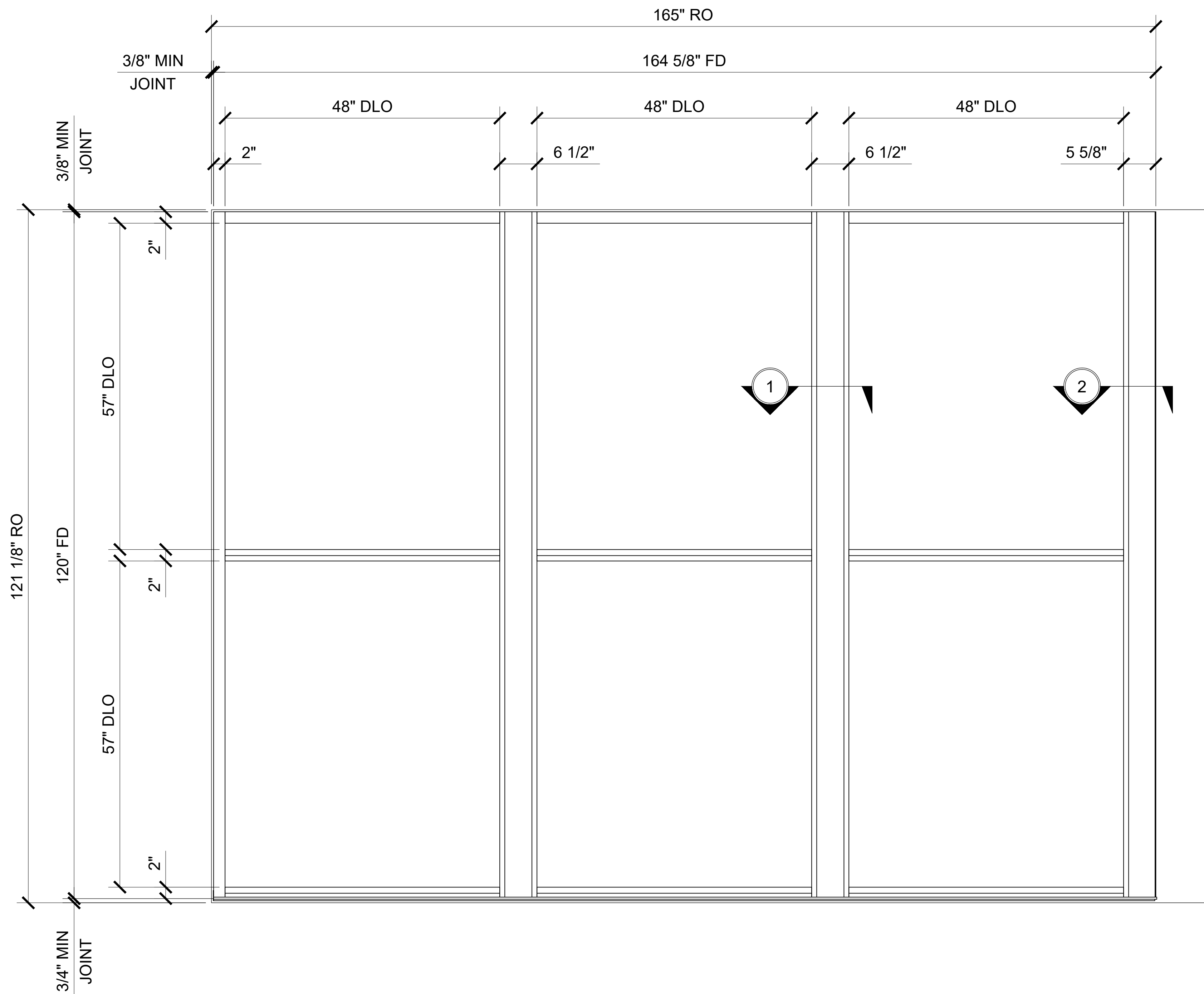
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STOREFRONTS

SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM POST COVERS

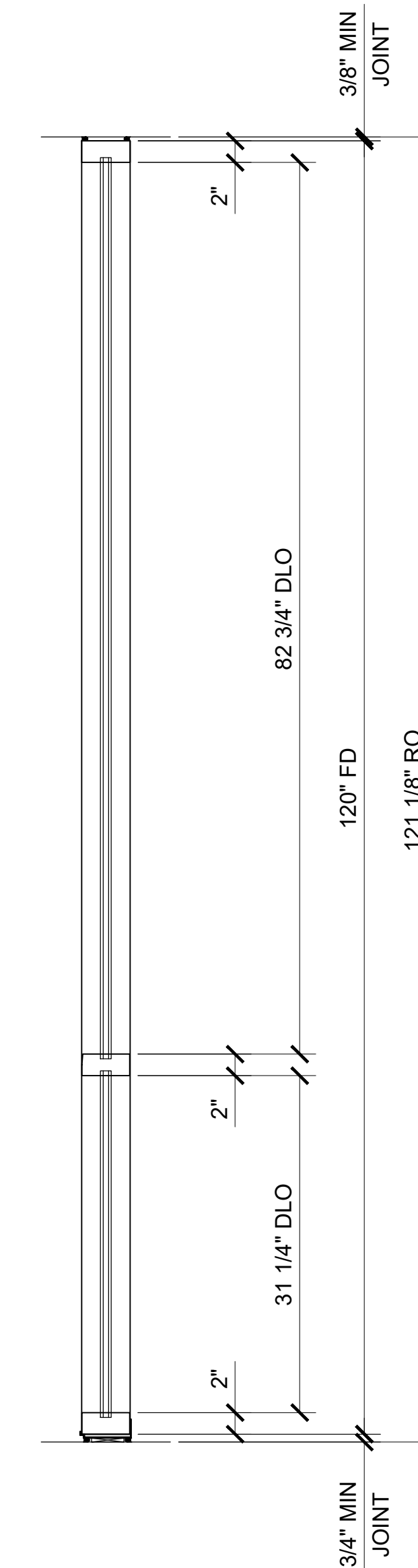
GLASS SIZING NOTE:
REFERENCE U.S. ALUMINUM
CATALOGS AND WEBSITE'S
LOAD CHARTS FOR SIZING
GUIDELINES.



IT451 SERIES SPECIFICATIONS

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- Struct-Link™ thermal break
- Full range of accessory components
- Available in an array of architectural coatings and anodized finishes
- Screw spline assembly
- Shear block assembly
- Stacking installation option
- Interior or Exterior Glazed



STANDARD ABBREVIATIONS

- RO ROUGH OPENING
- FD FRAME DIMENSION
- DLO DAYLITE OPENING
- DO DOOR OPENING
- DD DOOR DIMENSION
- SMC SURFACE MOUNTED CLOSER
- OHCC OVERHEAD CONCEALED CLOSER

Revisions By:



Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

Drawn By: AAD
Date: 4/5/13
Scale: AS NOTED
File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg



STOREFRONTS

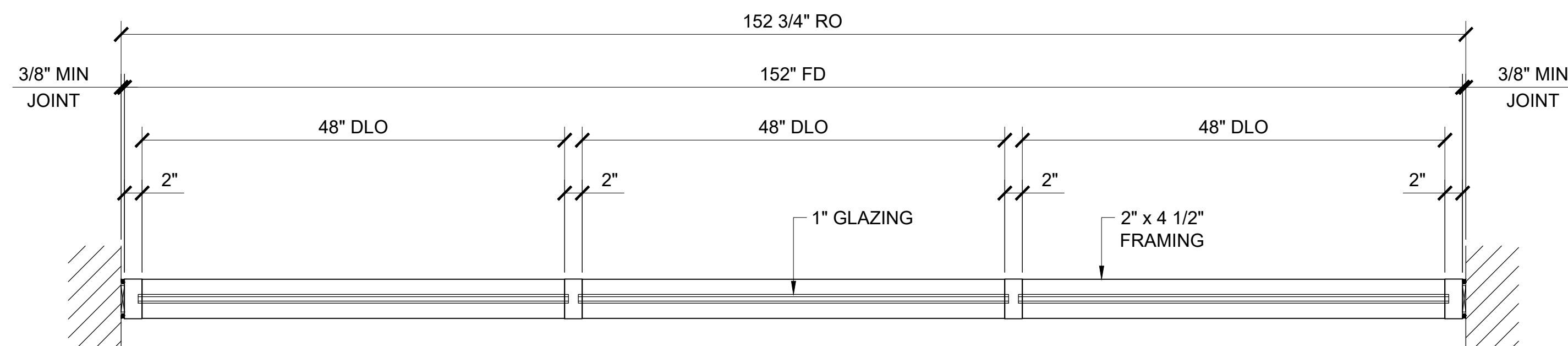
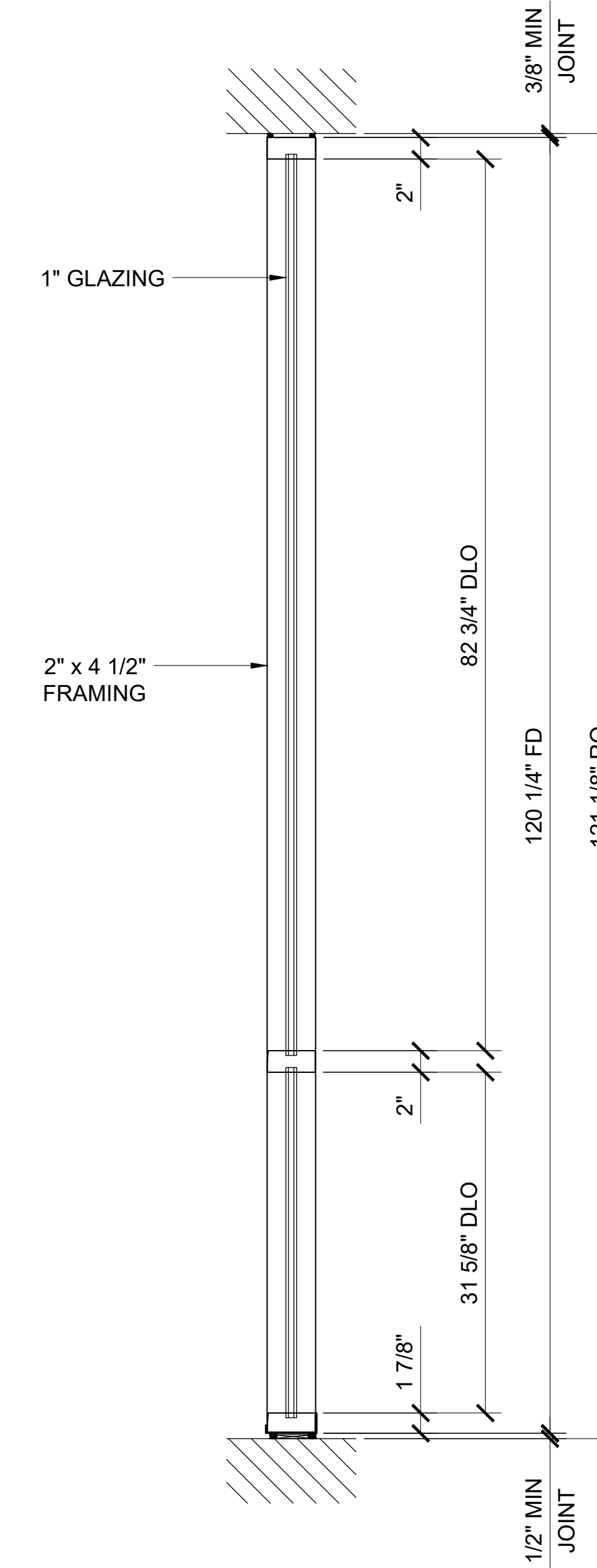
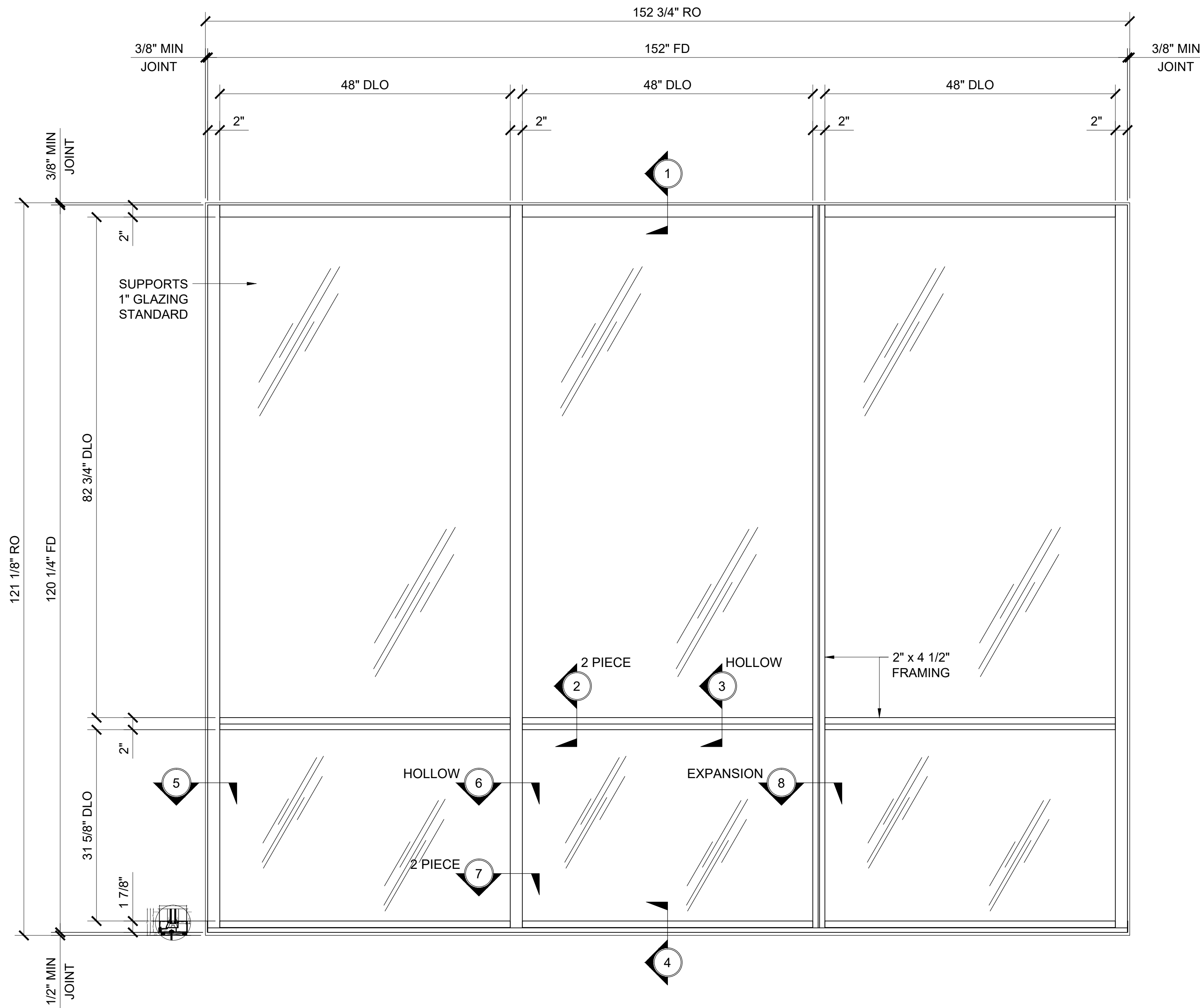
SERIES IT451 CENTER / EXTERIOR GLAZED STACKED STOREFRONT SYSTEM

IT451 SERIES SPECIFICATIONS

Series IT451 offers improved thermal performance using the Poly-Aluminizer™. United States Aluminum offers cost efficient versatile Center Glazed Systems with clean lines and superb performance. Series IT451 may be interior or exterior glazed. A top load EPDM gasket is used to position and weatherseal the glass in the aluminum pocket. Center Glazed Systems are compatible with most United States Aluminum entrance doors.

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- Full range of accessory components
- Available in an array of architectural coatings and anodized finishes
- Screw spline assembly
- Shear block assembly
- Stacking installation option (SHOWN)
- Interior or Exterior Glazed (EXTERIOR GLAZED OPTION SHOWN)

GLASS SIZING NOTE:
REFERENCE U.S. ALUMINUM
CATALOGS AND WEBSITE'S
LOAD CHARTS FOR SIZING
GUIDELINES.



STANDARD ABBREVIATIONS

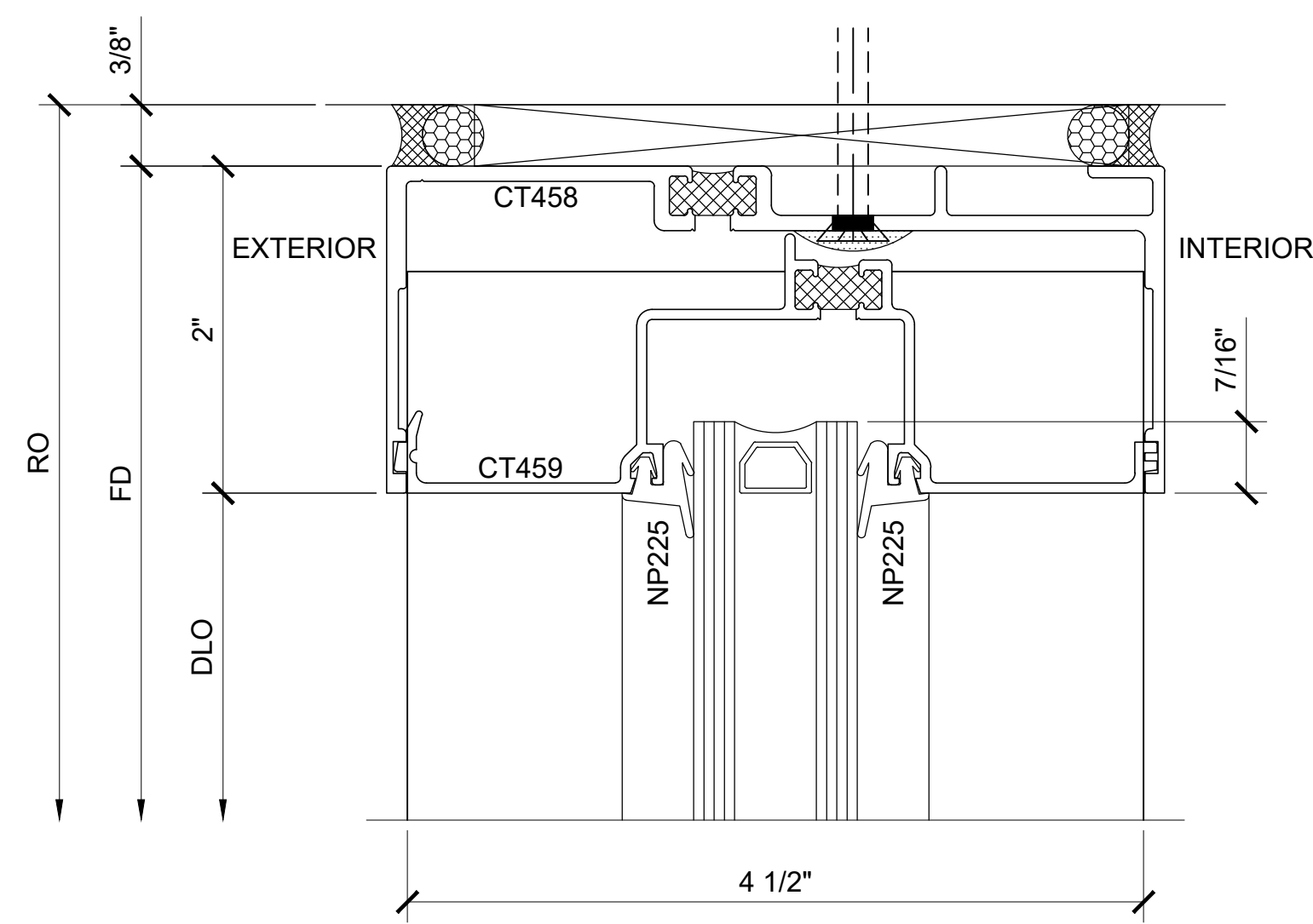
RO	ROUGH OPENING
FD	FRAME DIMENSION
DLO	DAYLITE OPENING
DO	DOOR OPENING
DD	DOOR DIMENSION
SMC	SURFACE MOUNTED CLOSER
OHCC	OVERHEAD CONCEALED CLOSER

Revisions By:

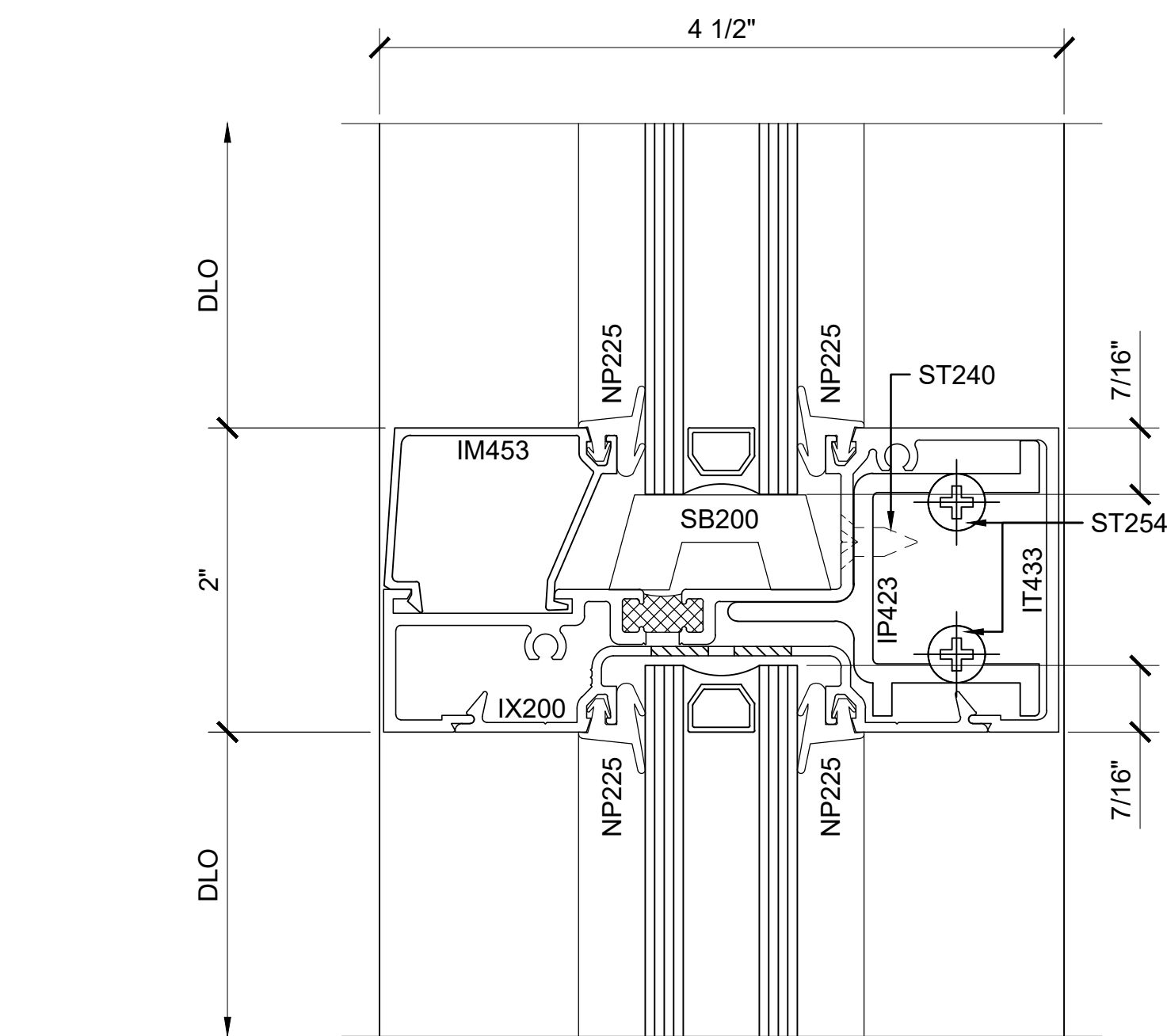


Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

Drawn By: AAD
Date: 4/5/13
Scale: AS NOTED
File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg

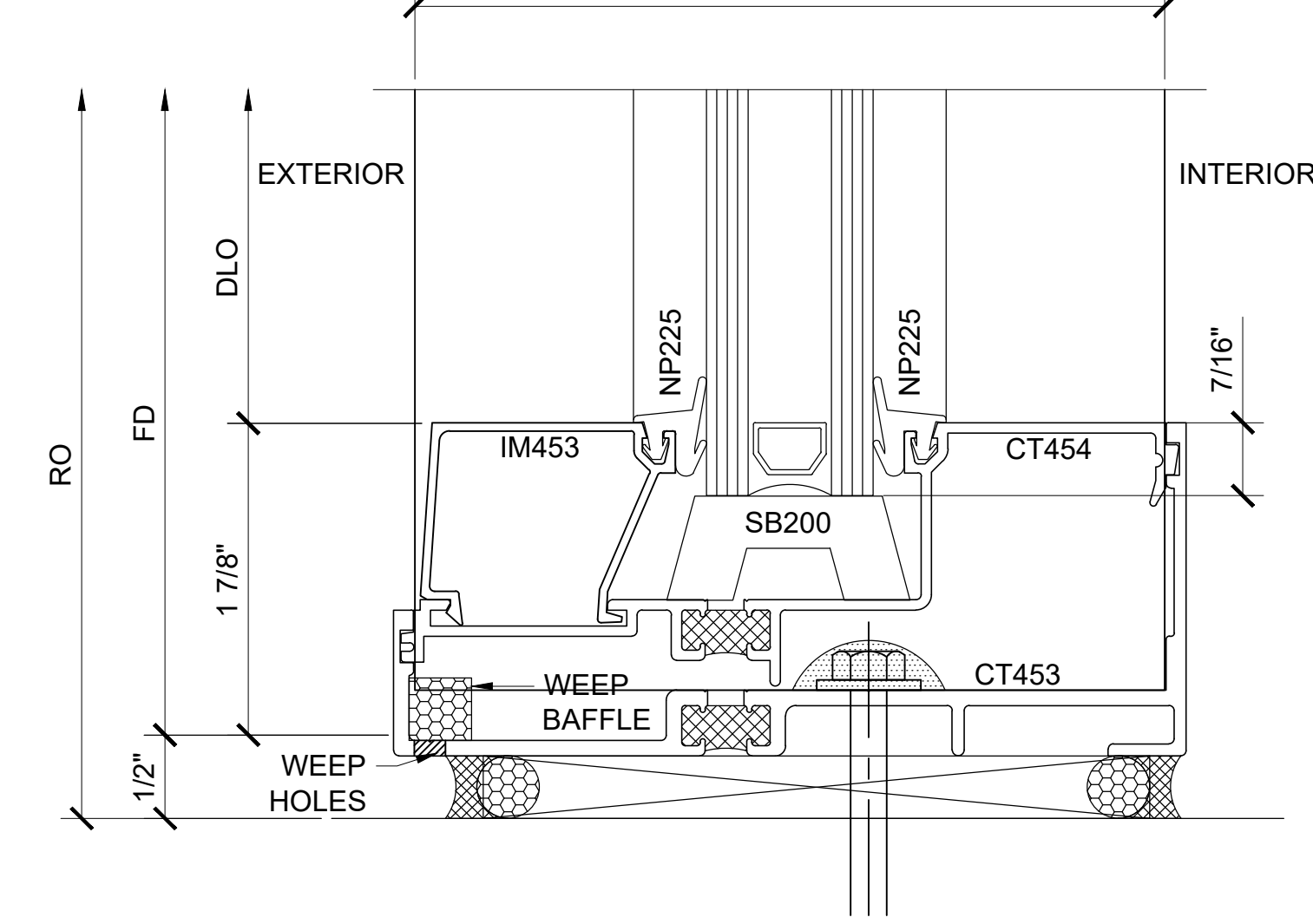


SECTION DETAIL AT HEAD ①

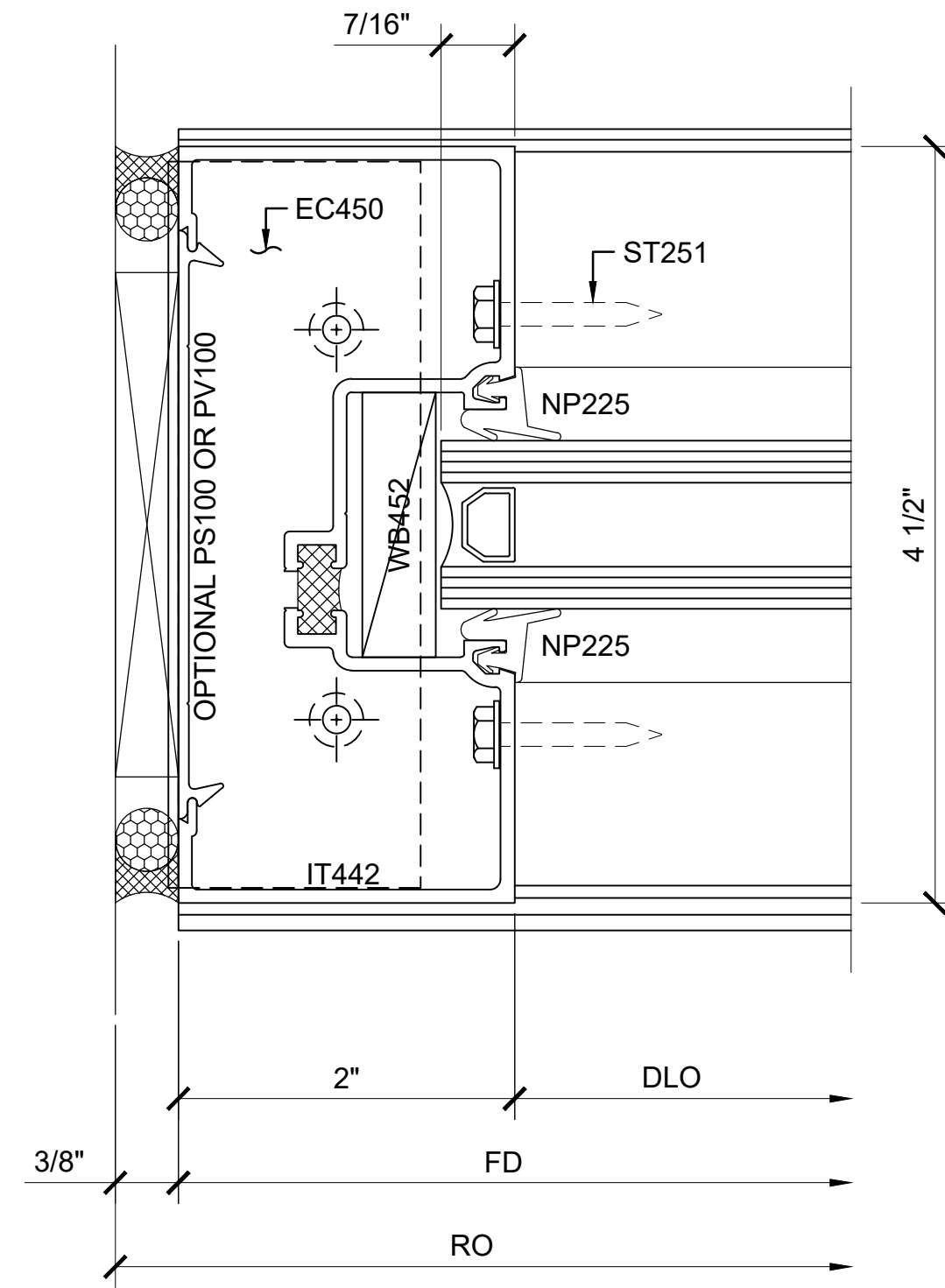


SECTION DETAIL AT INTERMEDIATE HORIZONTAL ③

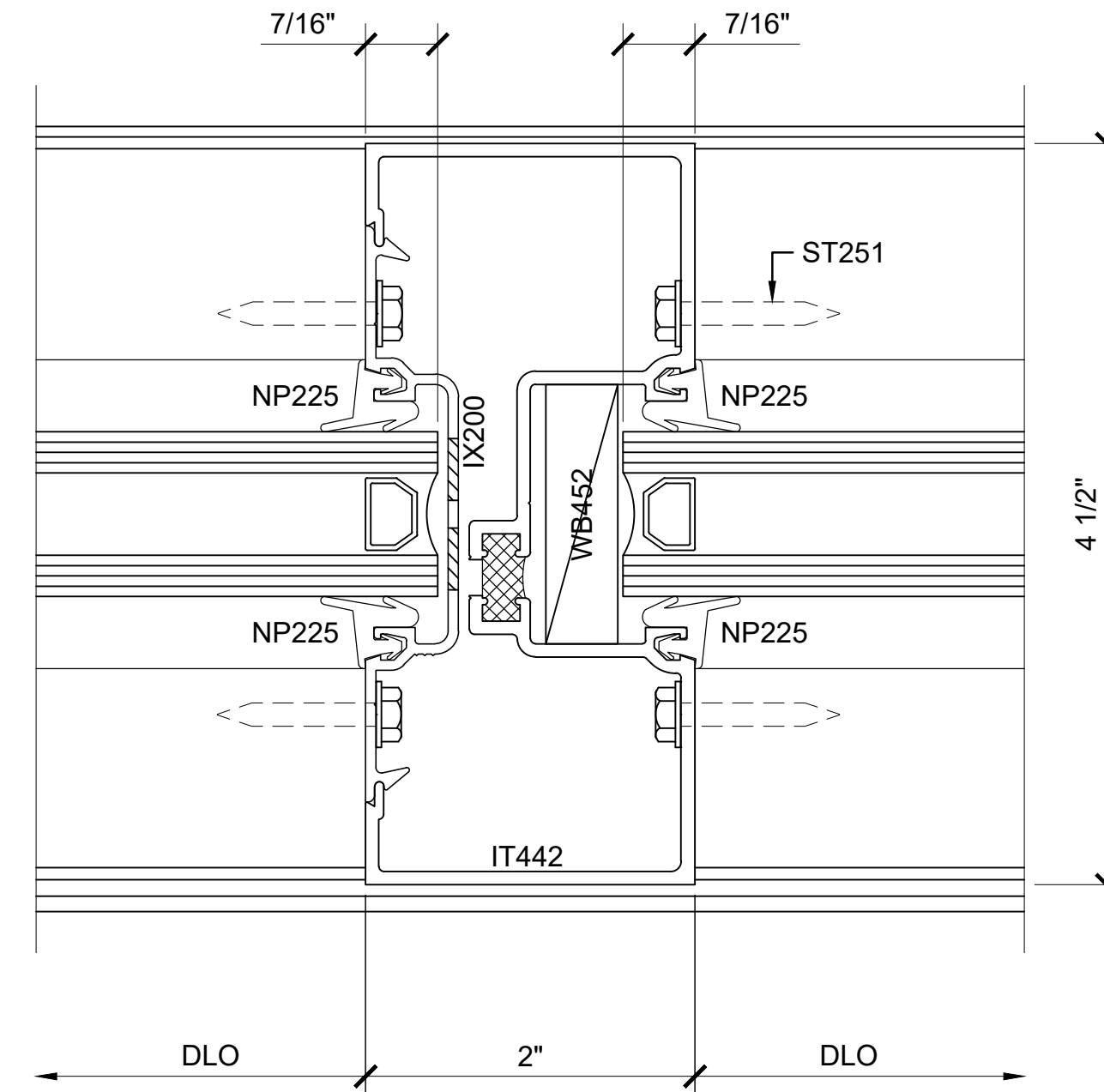
TYPICAL FOR SCREW RACE ASSEMBLY - (SHEAR BLOCK FOR LOAD DISTRIBUTION)



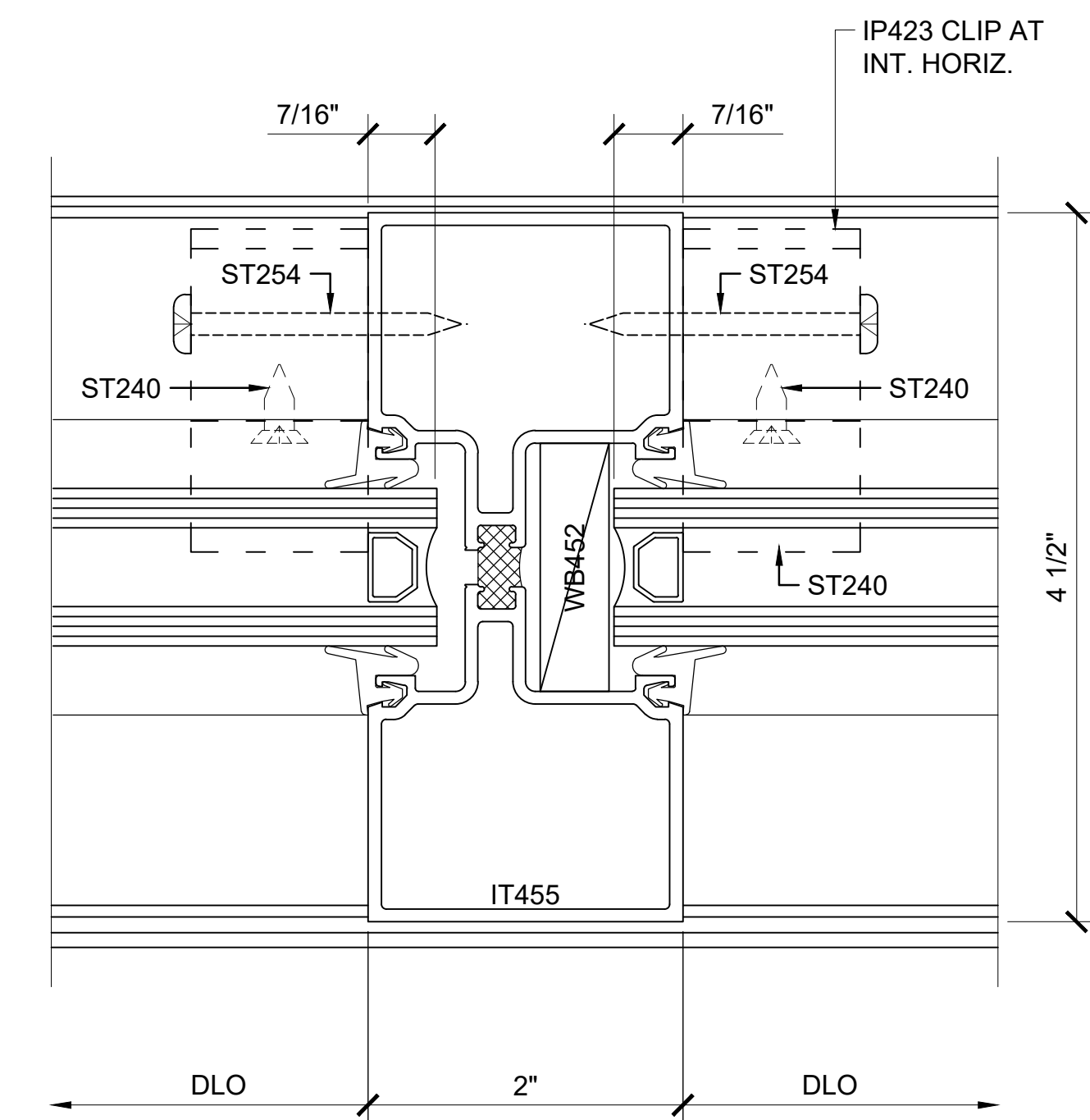
SECTION DETAIL AT SILL ④



SECTION DETAIL AT JAMB ⑤

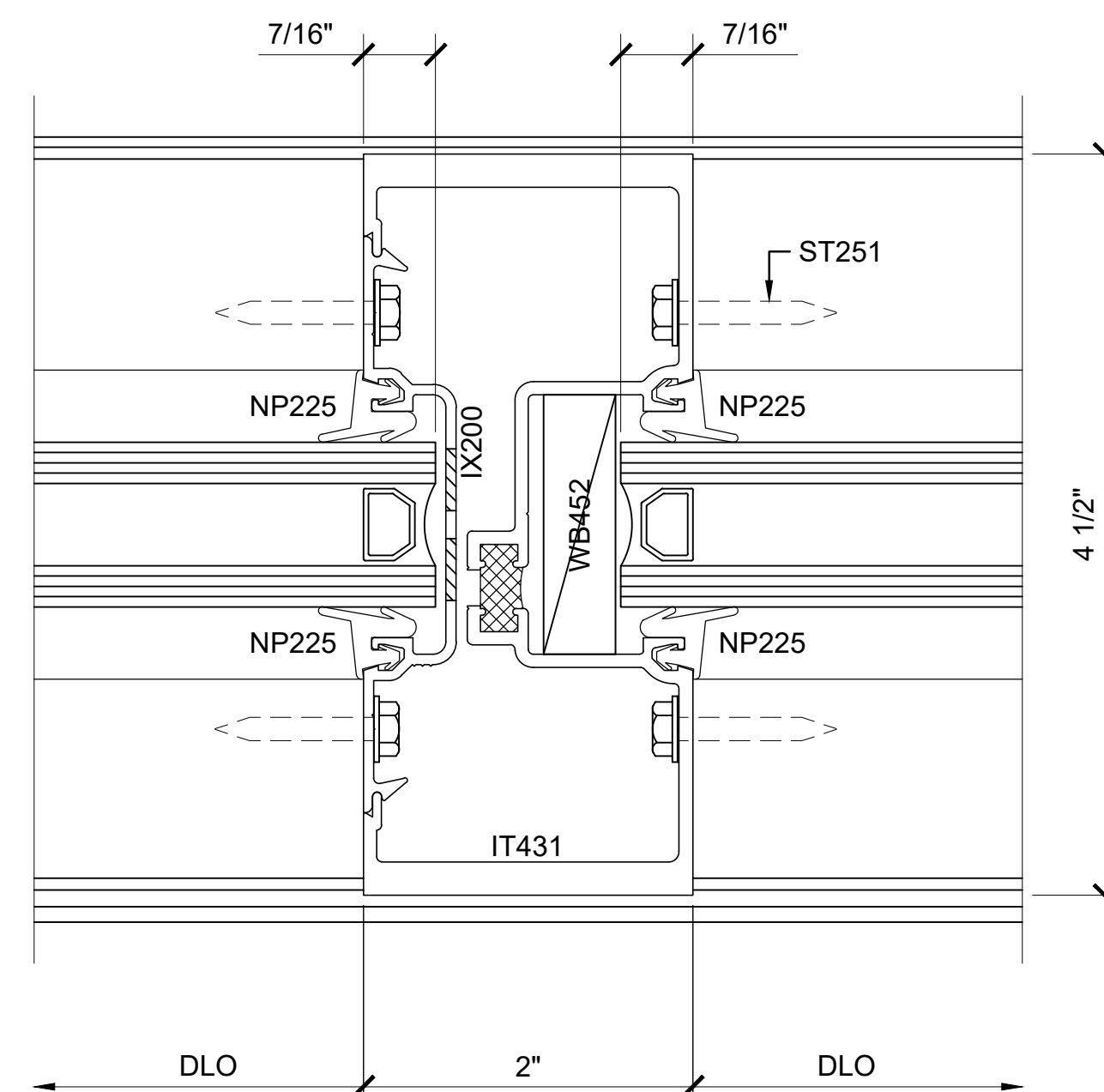


SECTION DETAIL AT INTERMEDIATE VERTICAL ⑥

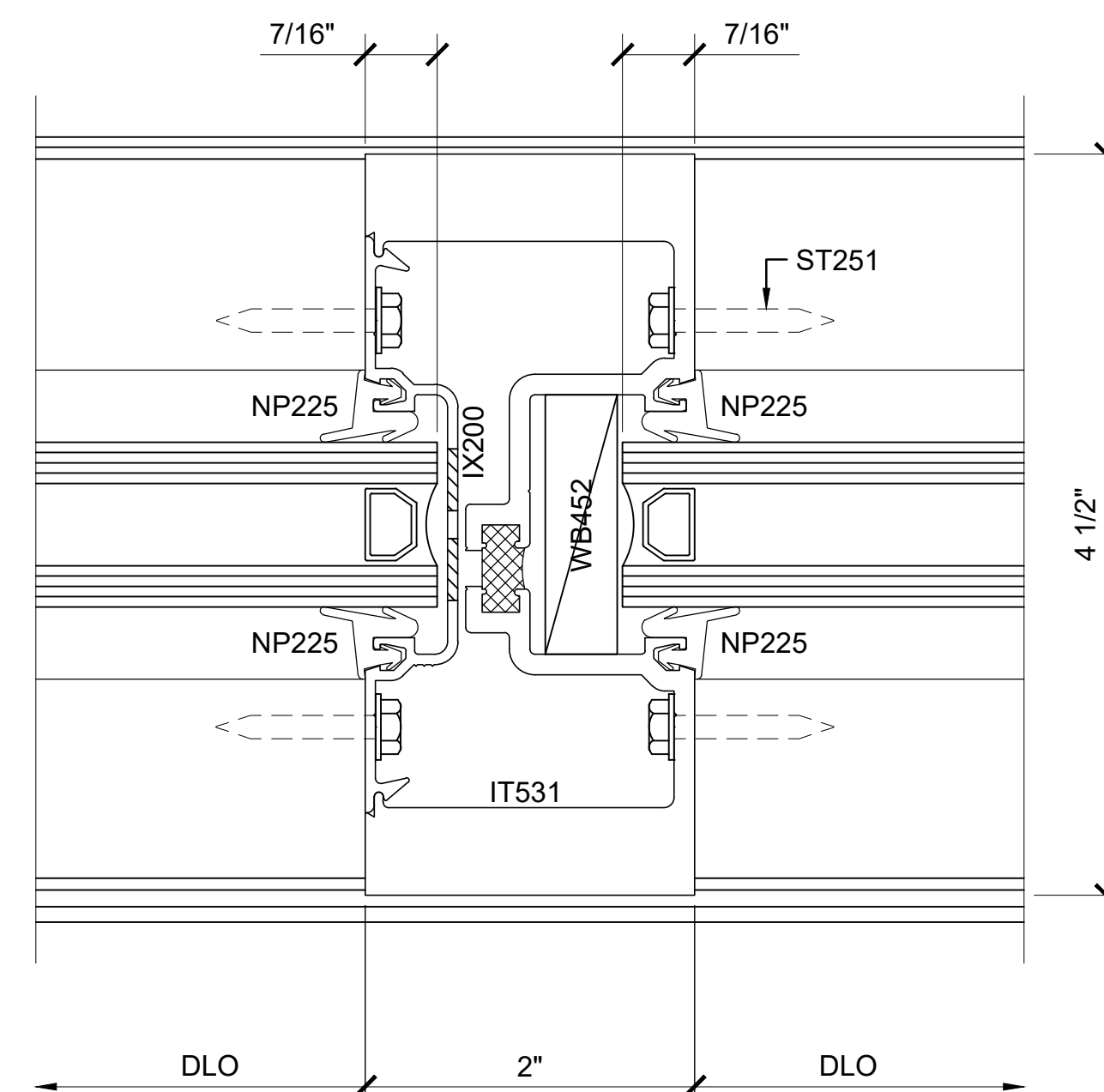


SECTION DETAIL AT HOLLOW INTERMEDIATE VERTICAL ⑥

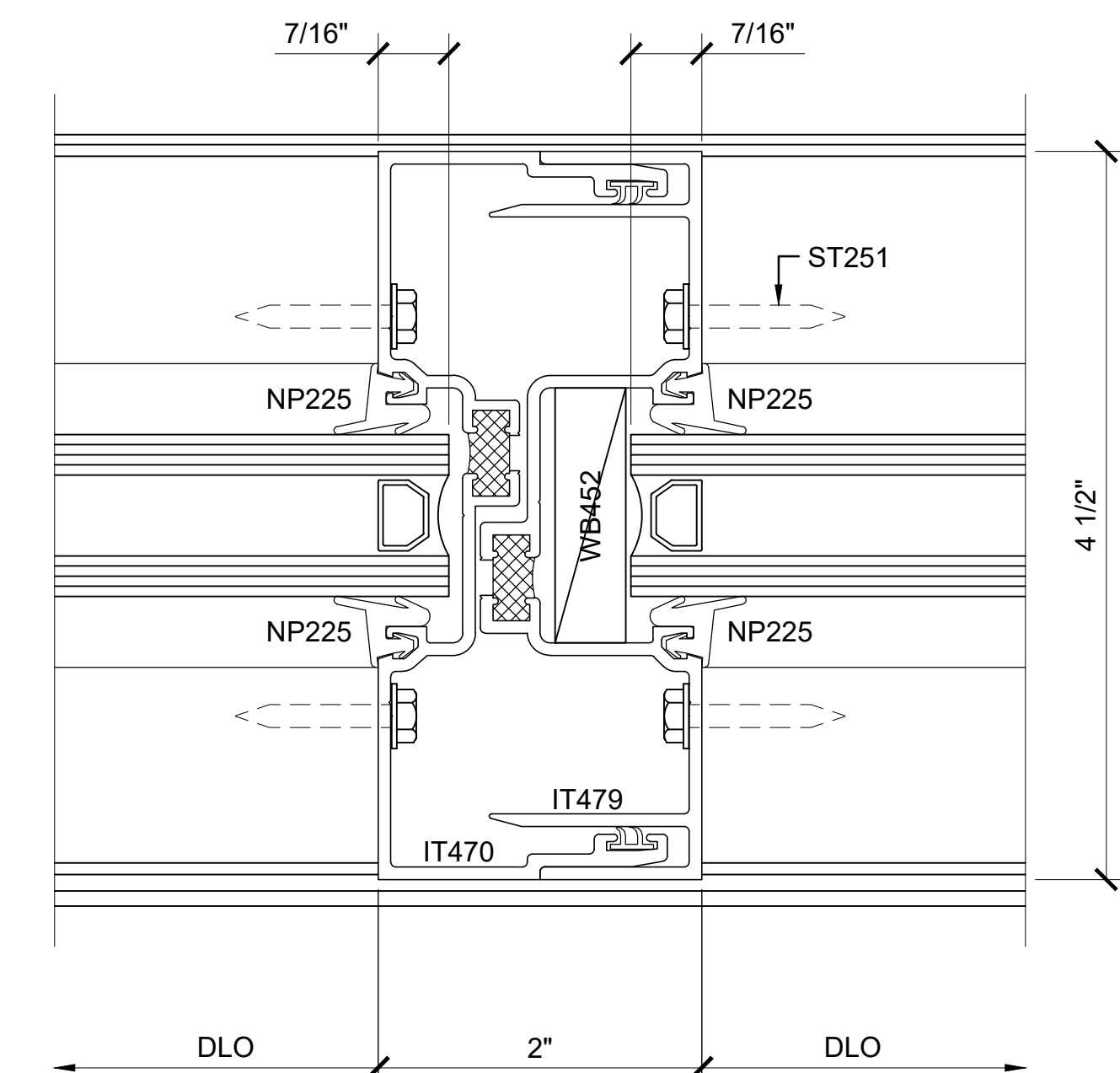
TYPICAL SHEAR BLOCK ASSEMBLY MULLION



SECTION DETAIL AT INTERMEDIATE VERTICAL ⑦



SECTION DETAIL AT INTERMEDIATE VERTICAL ⑧



SECTION DETAIL AT EXPANSION MULLION ⑨

SERIES IT451 CENTER / EXTERIOR GLAZED SHEAR BLOCK STOREFRONT SYSTEM

Revisions By:



Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

Drawn By: AAD
 Date: 4/5/13
 Scale: AS NOTED
 File Name: SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM.dwg

Sheet

7.2



STOREFRONTS

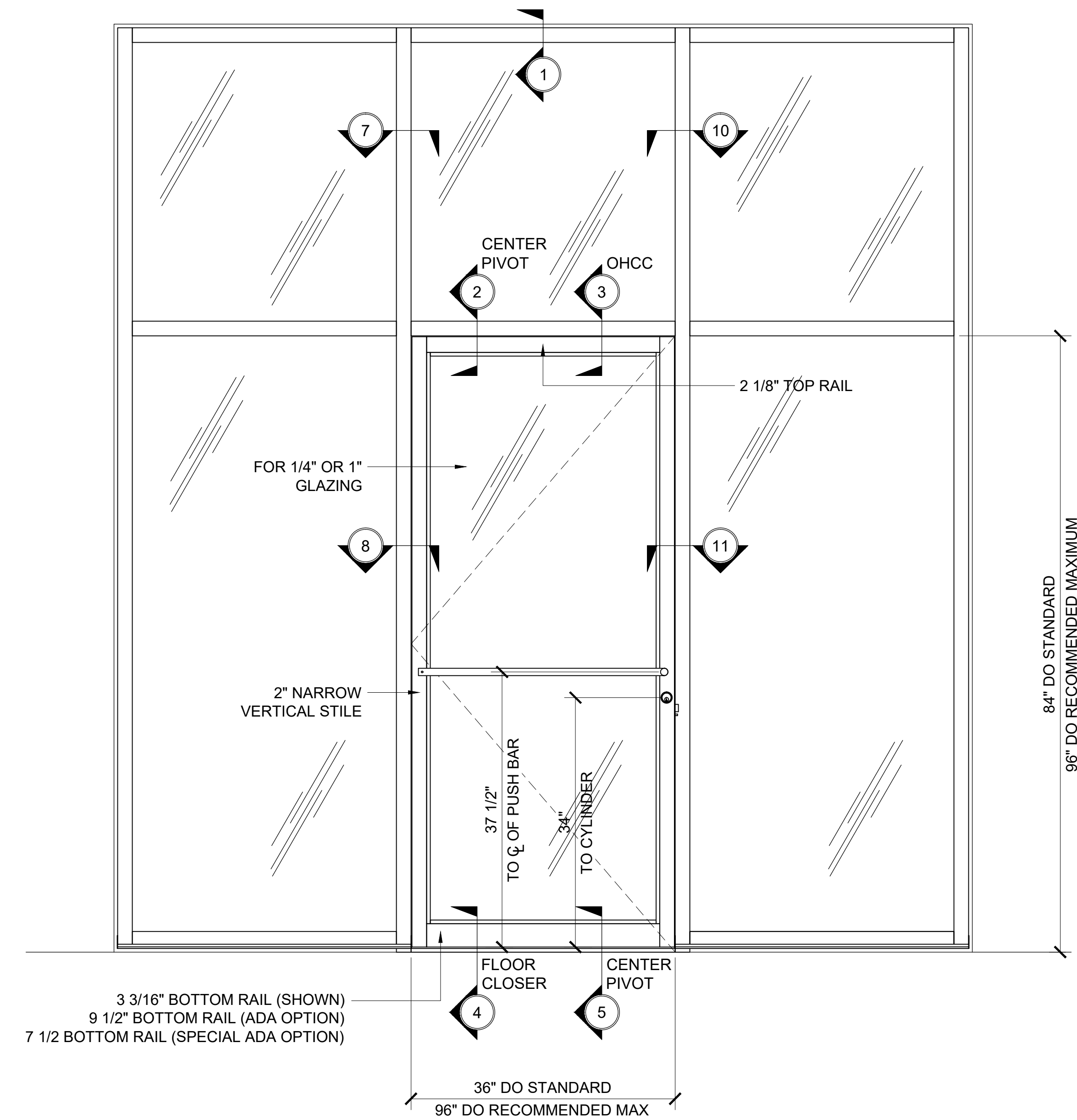
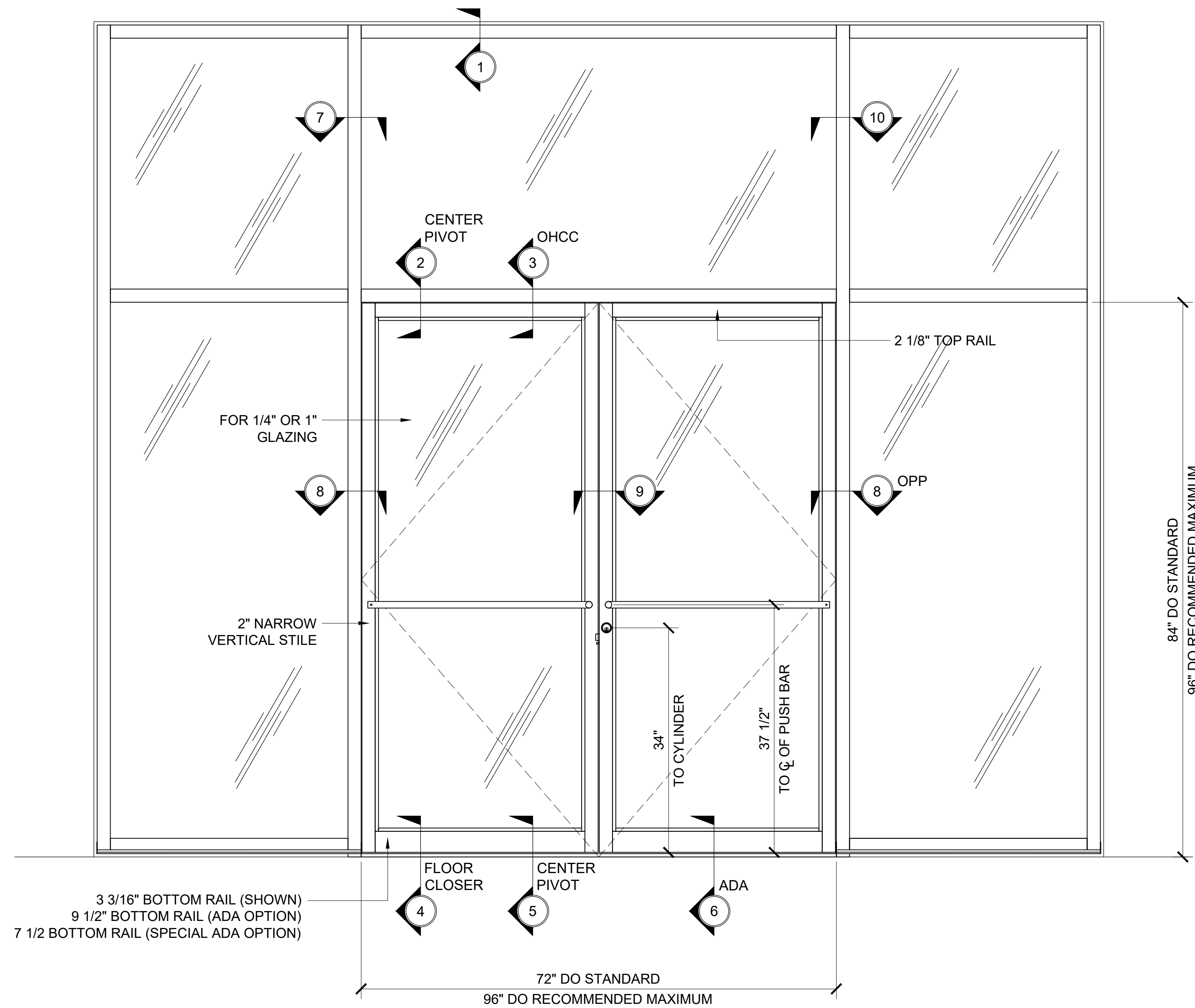
SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM CENTER HUNG DOOR FRAMING

IT451 SERIES SPECIFICATIONS

Series IT451 offers improved thermal performance using the Poly-Aluminizer™. United States Aluminum offers cost efficient versatile Center Glazed Systems with clean lines and superb performance. Series IT451 may be interior or exterior glazed. A top load EPDM gasket is used to position and weatherseal the glass in the aluminum pocket. Center Glazed Systems are compatible with most United States Aluminum entrance doors.

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- Screw spline assembly
- Shear block assembly
- Stacking installation option
- Interior or Exterior Glazed

Revisions By:

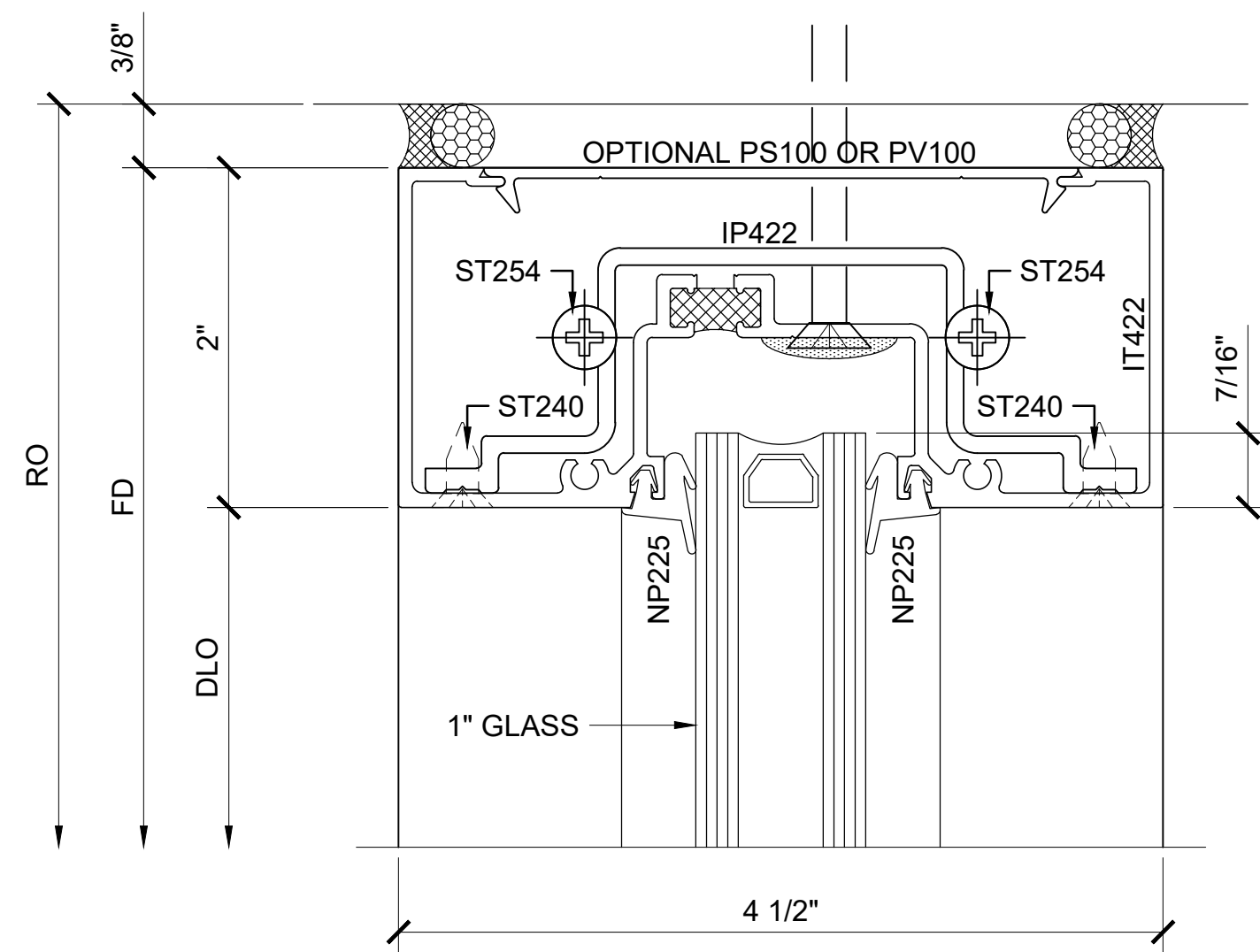


STANDARD ABBREVIATIONS

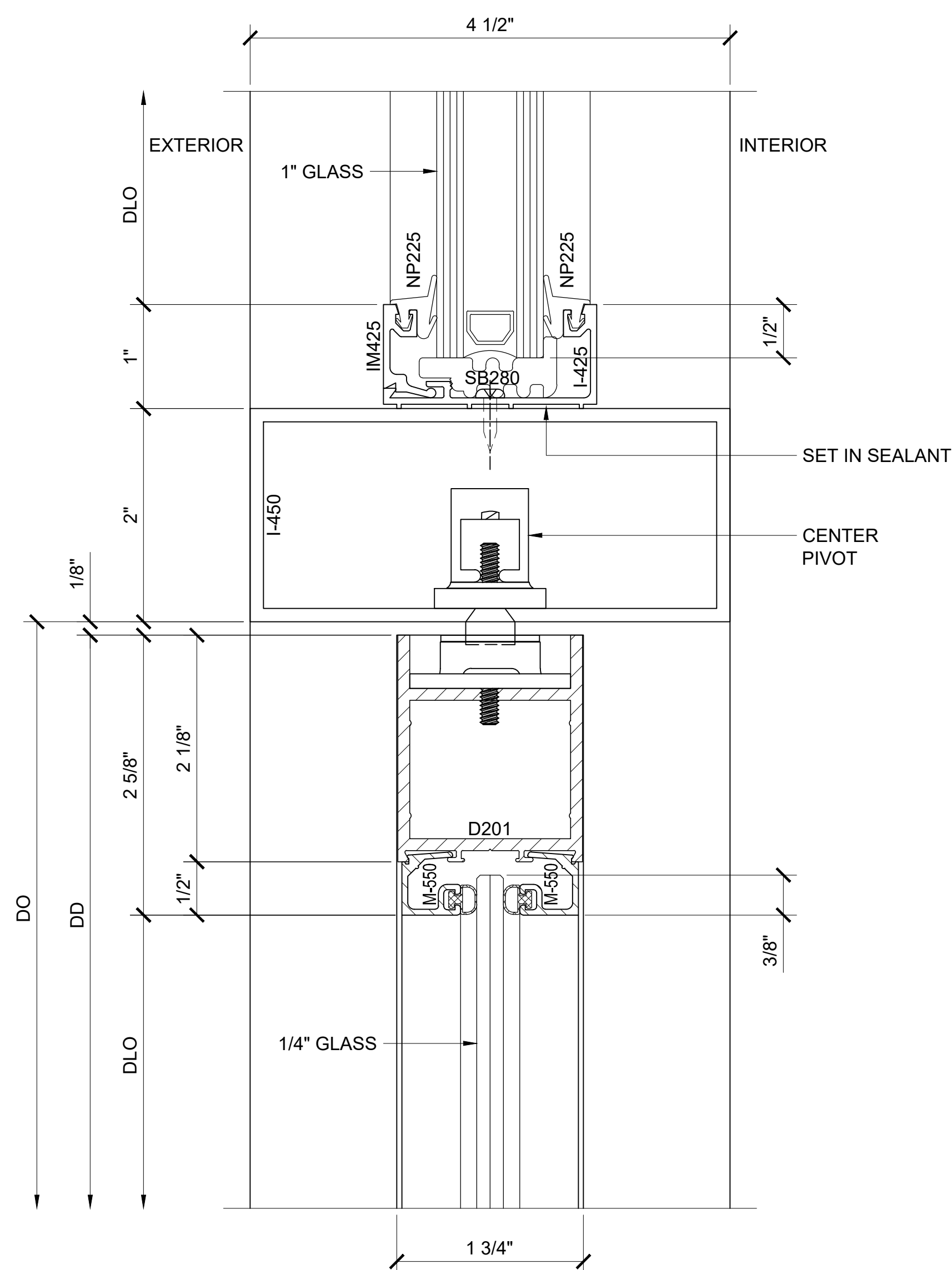
RO	ROUGH OPENING
FD	FRAME DIMENSION
DLO	DAYLITE OPENING
DO	DOOR OPENING
DD	DOOR DIMENSION
SMC	SURFACE MOUNTED CLOSER
OHCC	OVERHEAD CONCEALED CLOSER

Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

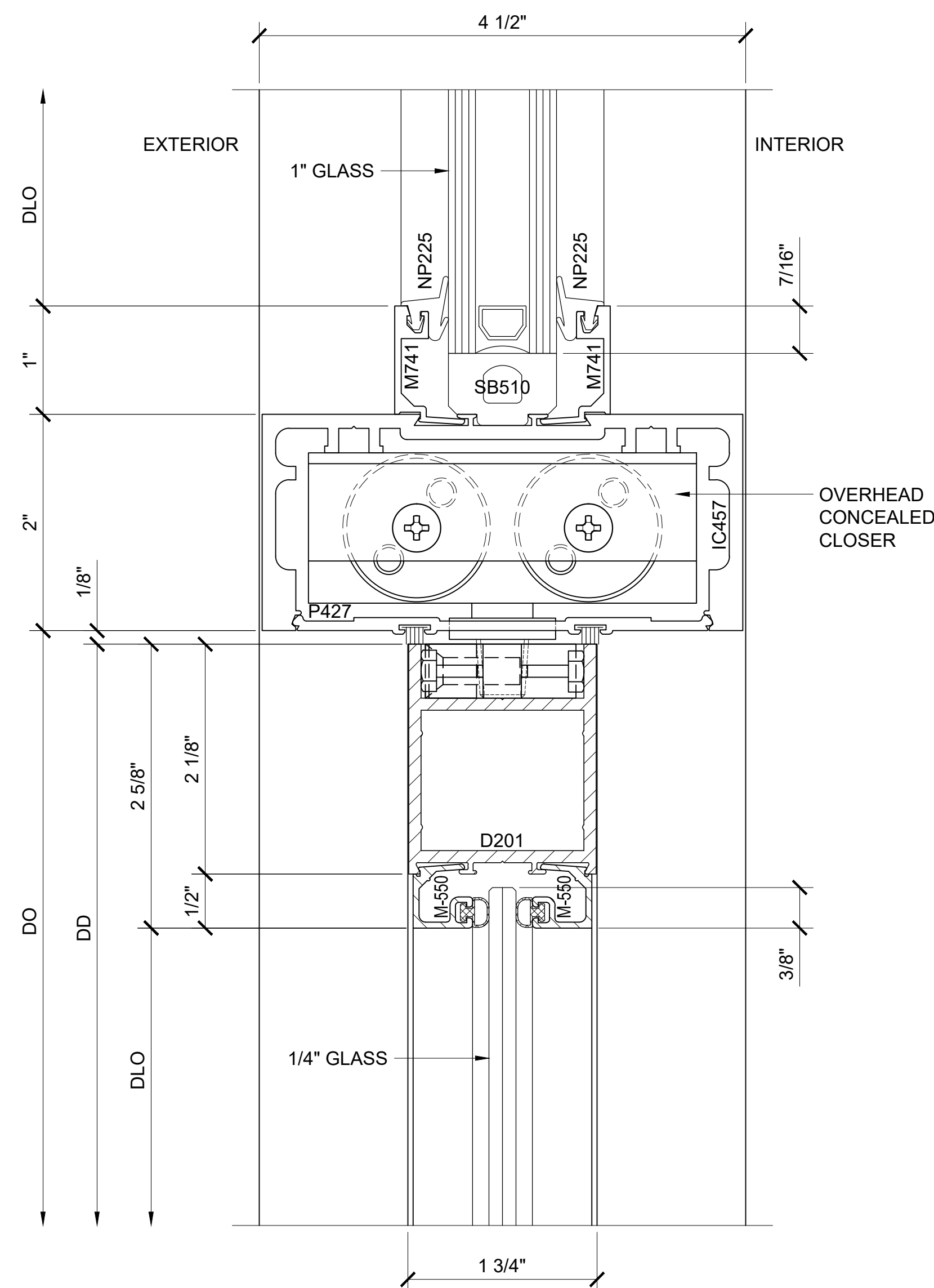
Drawn By: AAD
Date: 4/5/13
Scale: AS NOTED
File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg



SECTION DETAIL @ STOREFRONT HEAD (1)



SECTION DETAIL @ DOOR HEAD WITH PIVOT (2)



SECTION DETAIL @ DOOR HEAD WITH OHCC (3)

SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM DOOR FRAMING DETAILS (SHOWN WITH OPTIONAL NARROW STILE CENTER HUNG SERIES 250 DOOR SYSTEM)

Revisions By:



Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

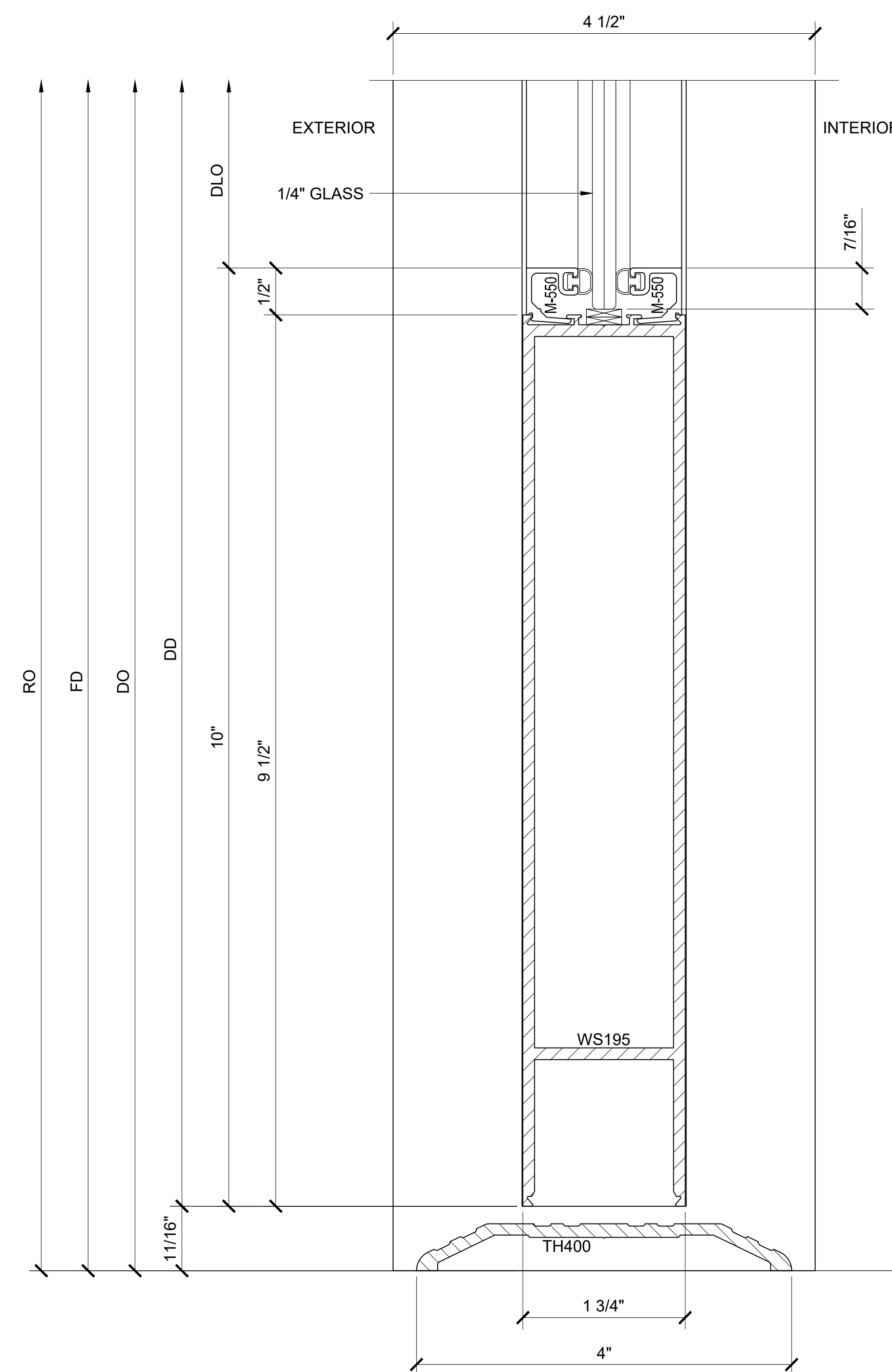
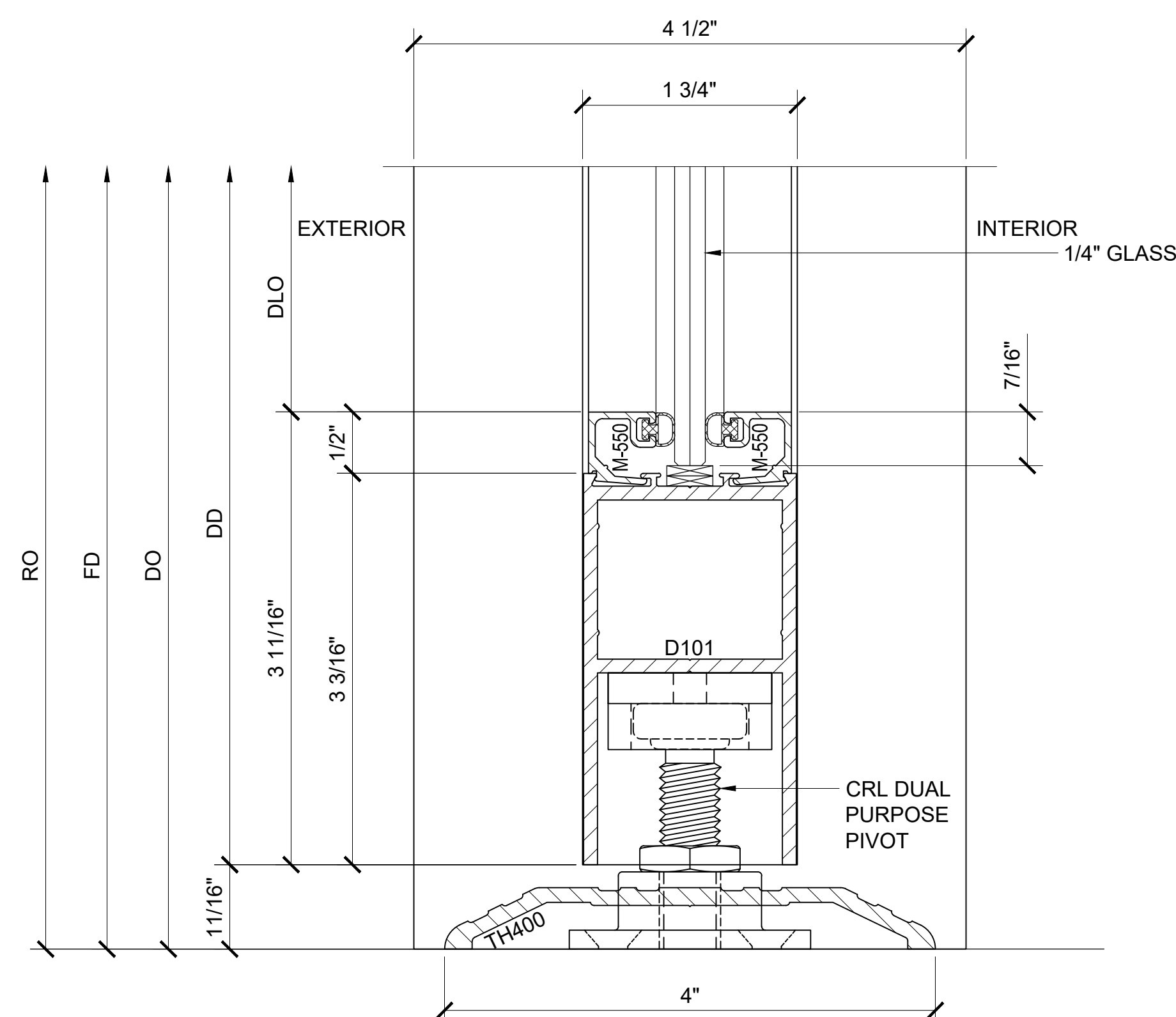
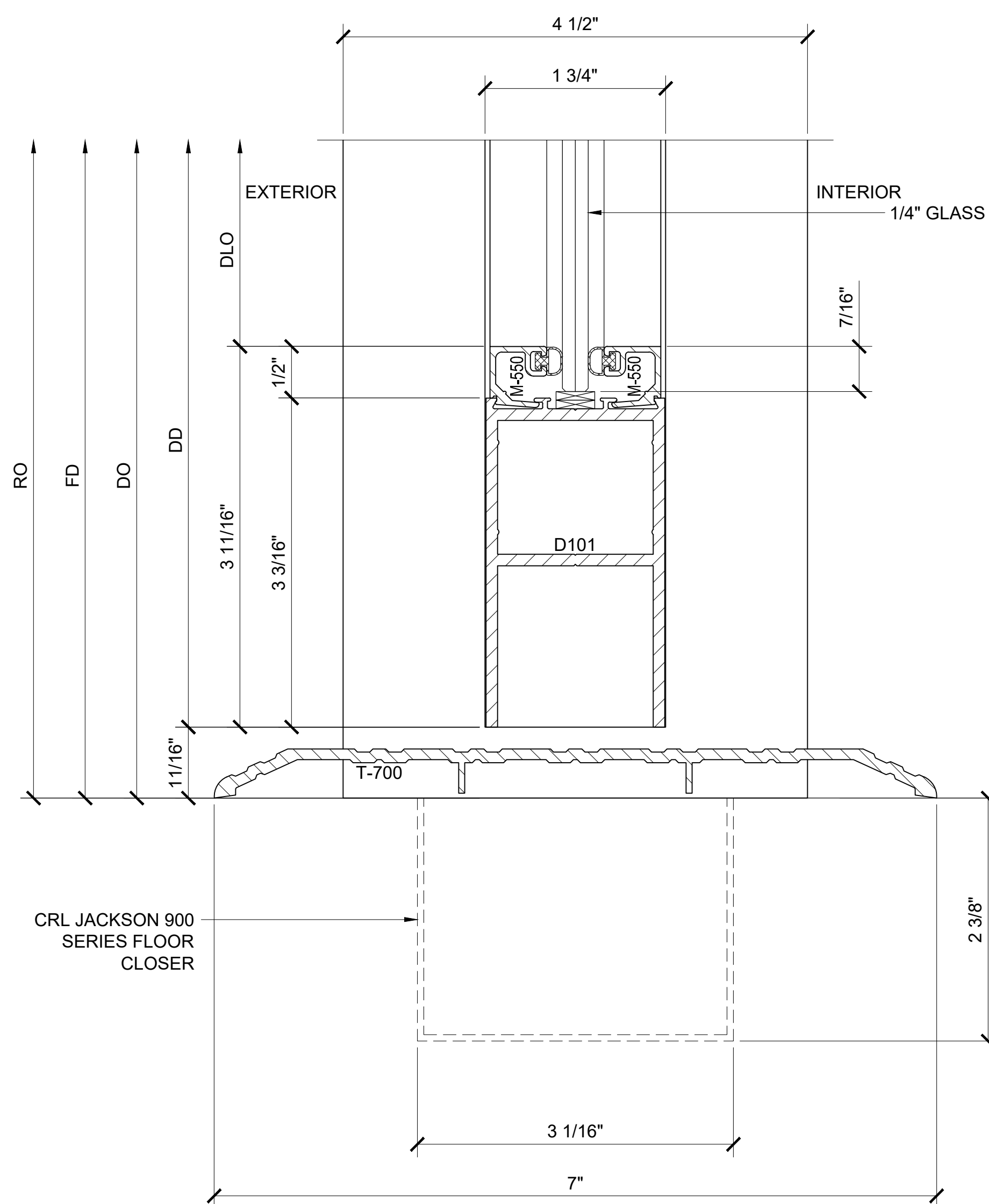
Drawn By: AAD
Date: 4/5/13
Scale: AS NOTED
File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg

Sheet

8.2

Revisions By:

CRL
U.S. ALUMINUM
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS
2503 E. Vernon Avenue, Los Angeles, CA 90058-1897
PH: (800)-421-6144 FX: (800)-587-7501 www.crlaurence.com



SECTION DETAIL @ DOOR SILL

4

SECTION DETAIL @ DOOR SILL

5

SECTION DETAIL @ ADA DOOR SILL

6

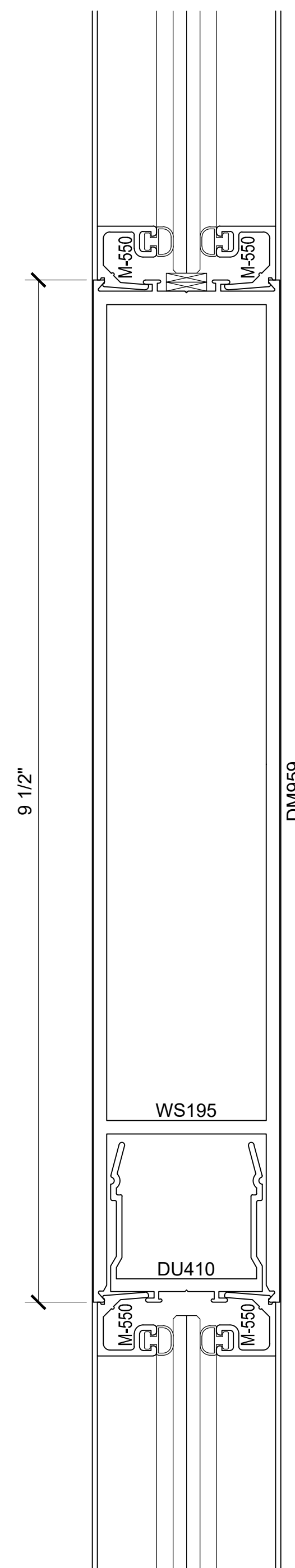
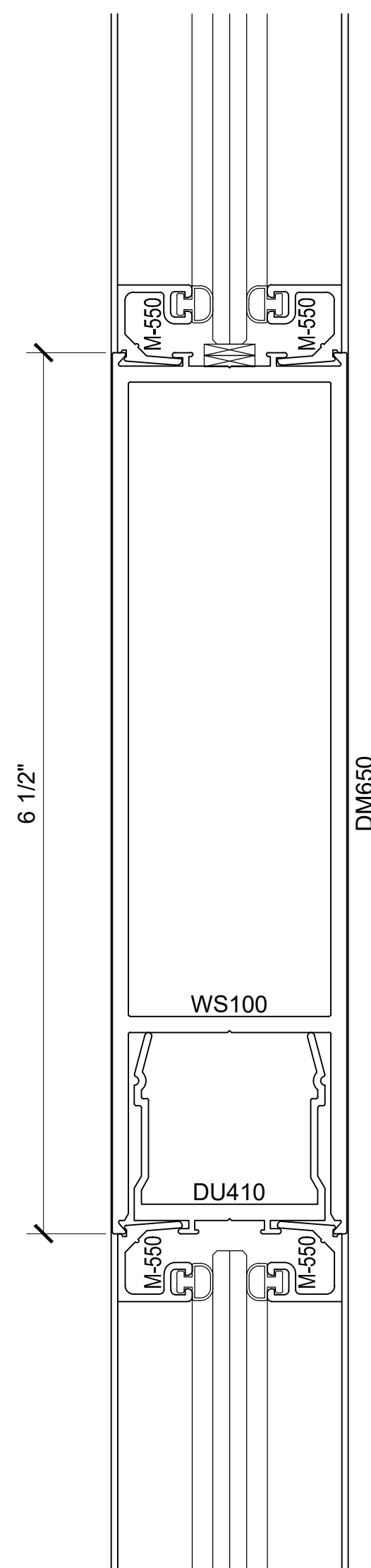
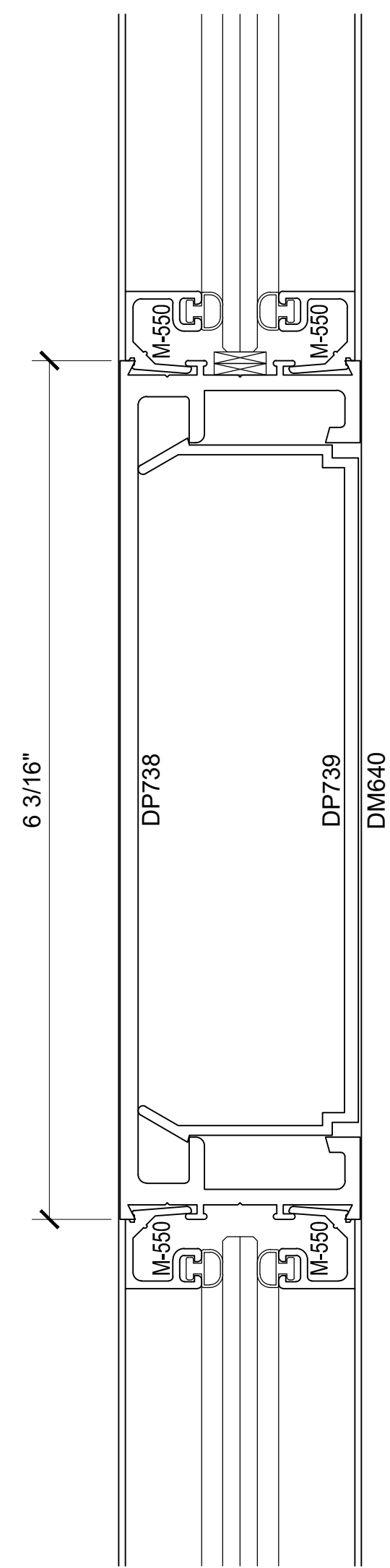
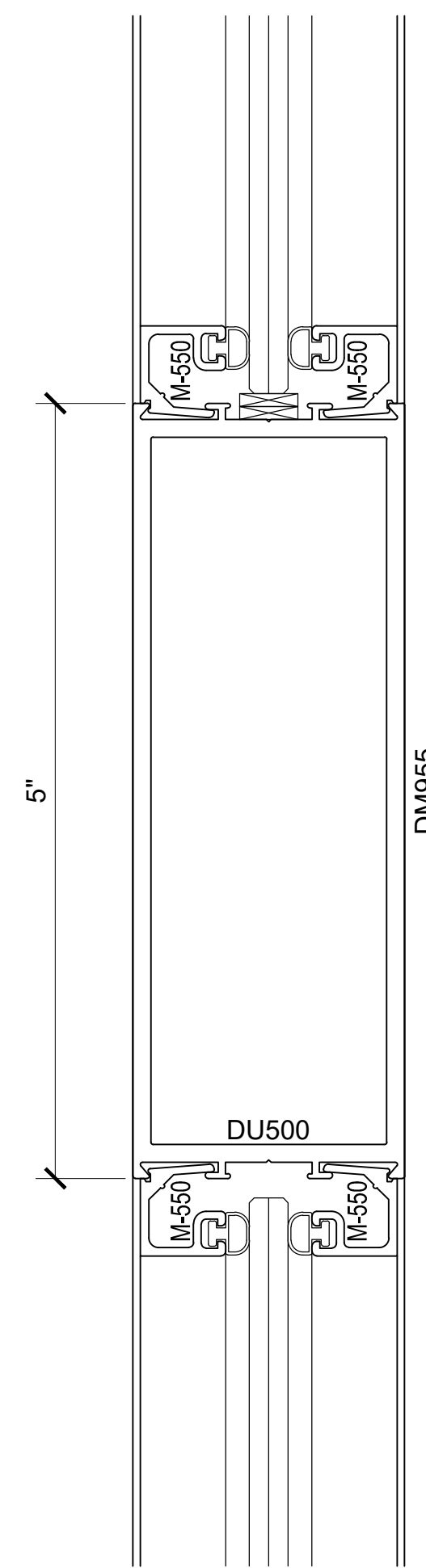
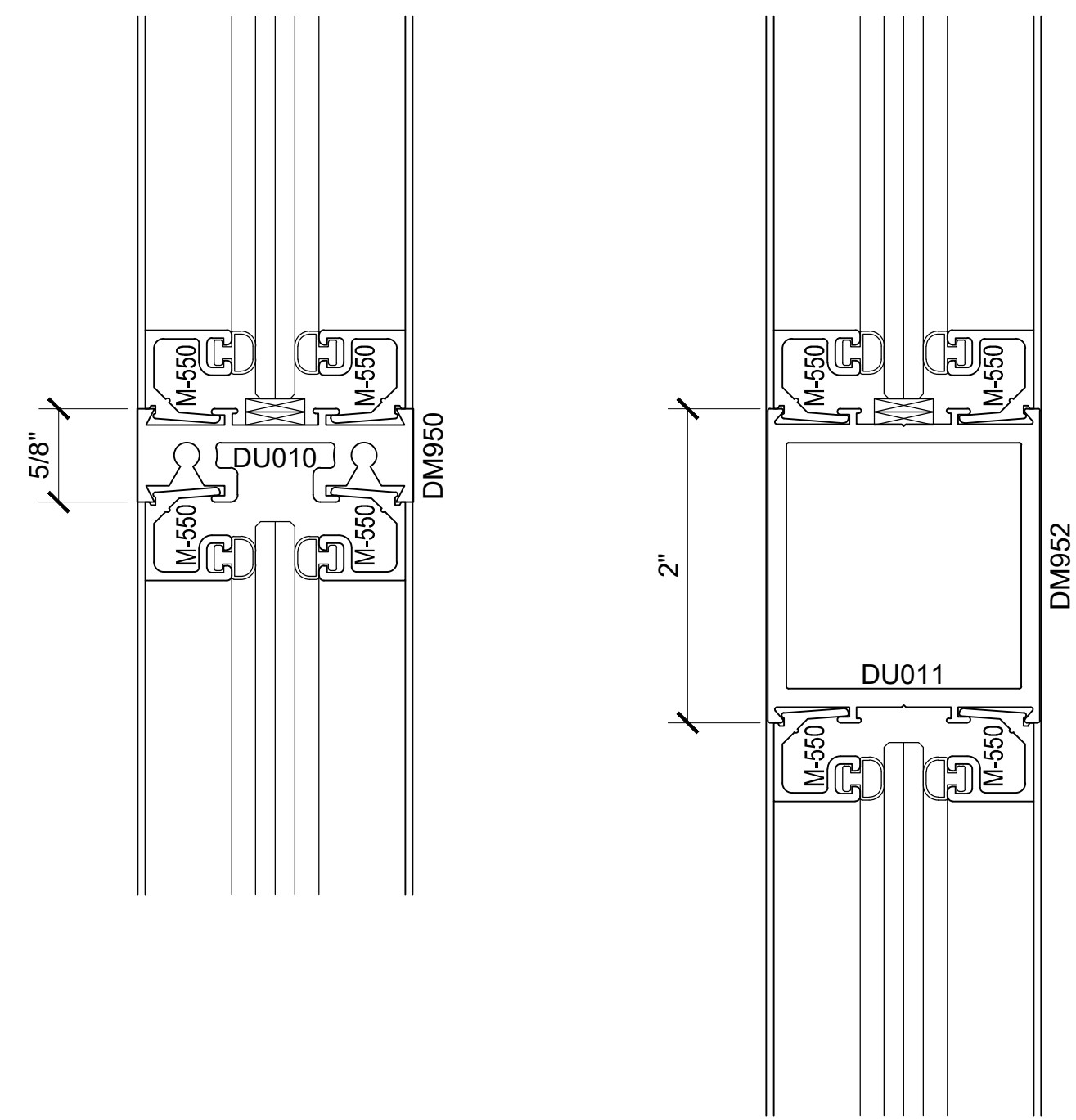
SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM DOOR FRAMING DETAILS (SHOWN WITH OPTIONAL NARROW STILE CENTER HUNG SERIES 250 DOOR SYSTEM)

Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

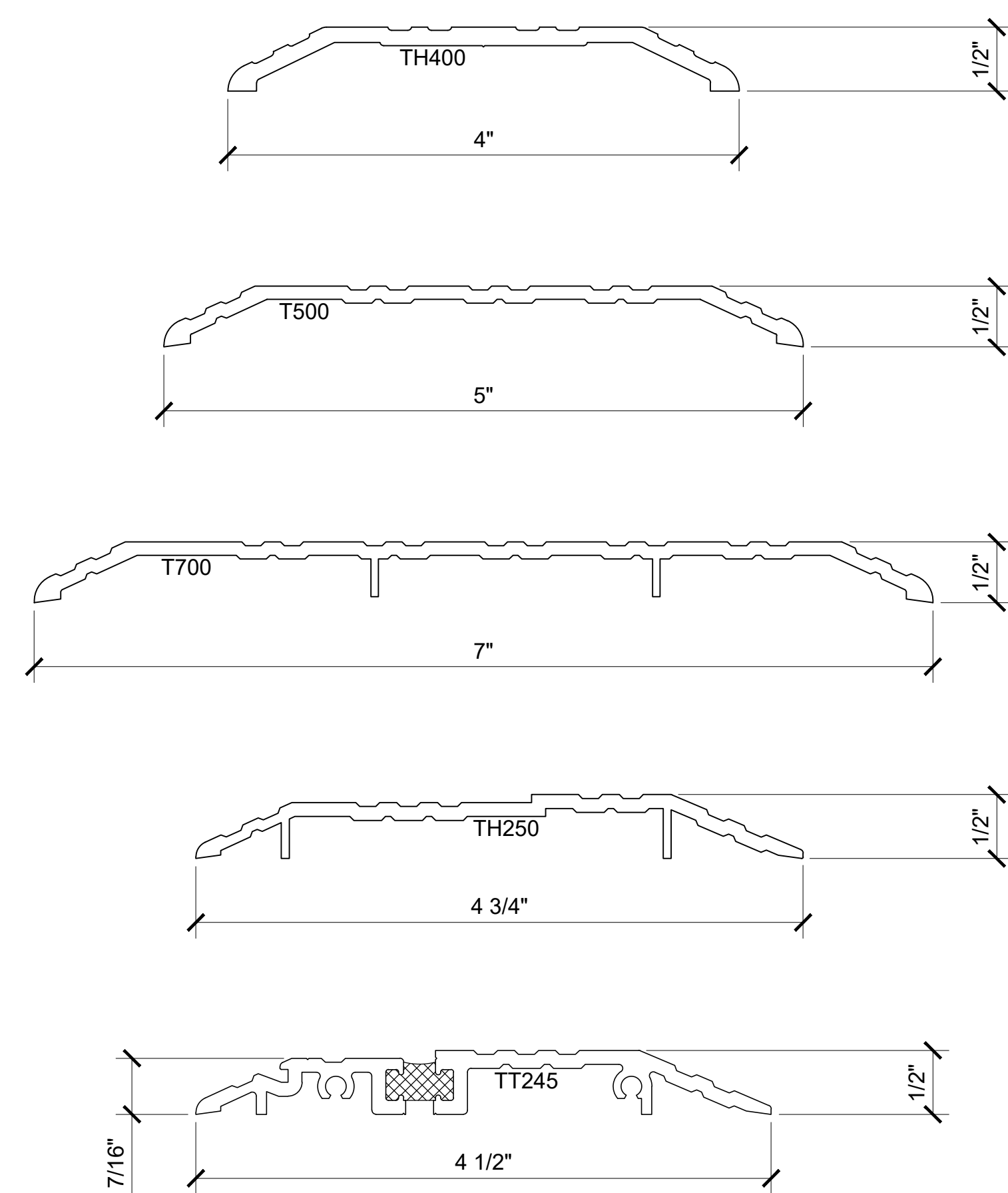
Drawn By: AAD
Date: 4/5/13
Scale: AS NOTED
File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg

Sheet

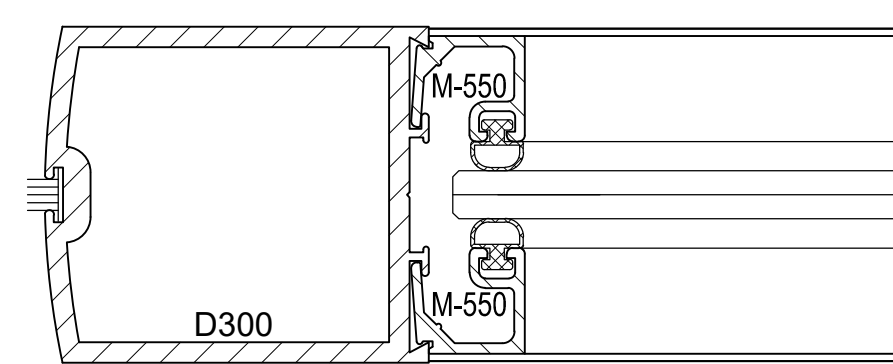
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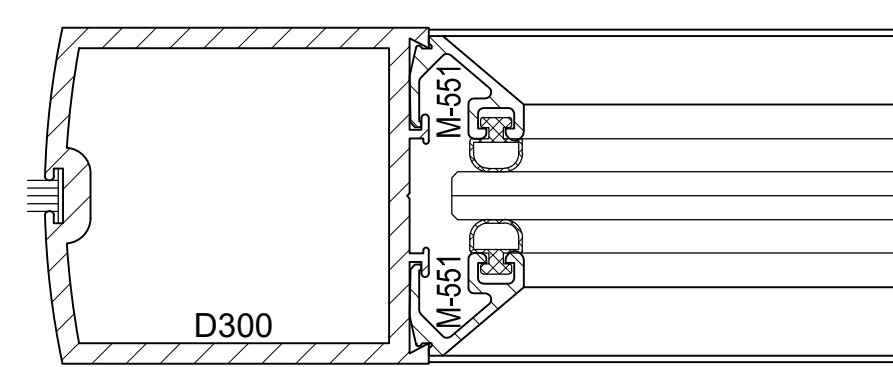
DOOR MUNTINS



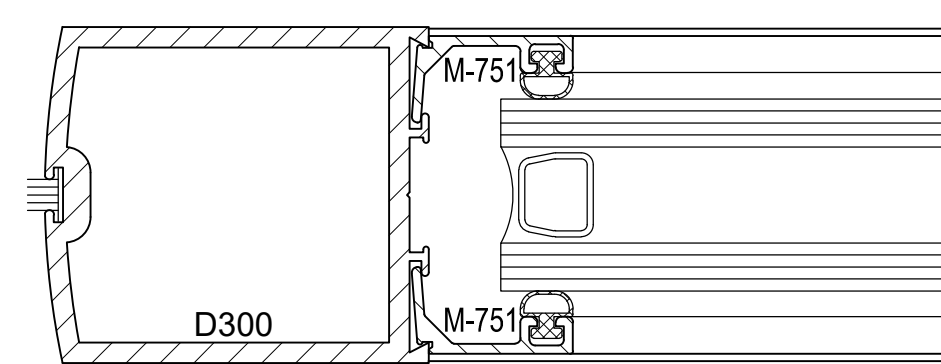
THRESHOLDS



1/4" GLASS - SQUARE

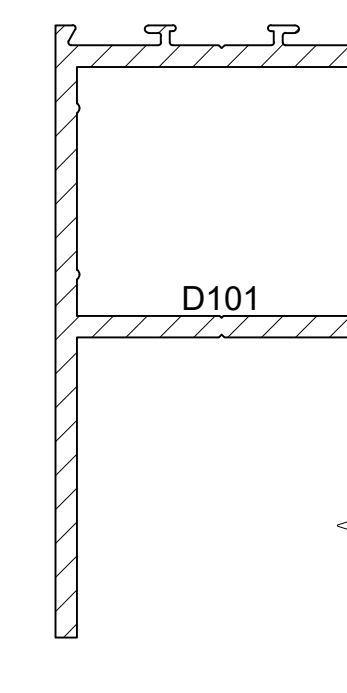
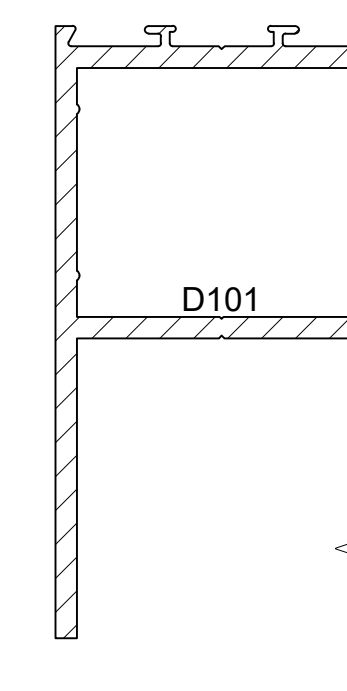
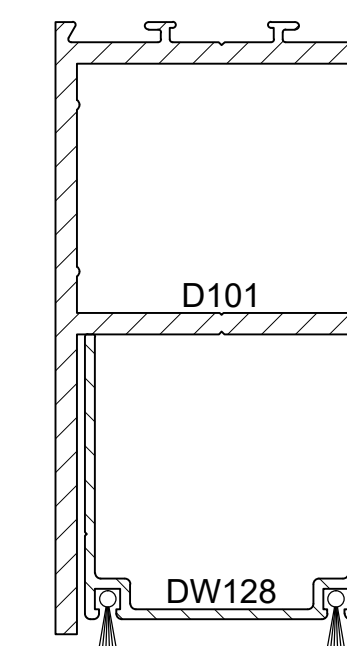
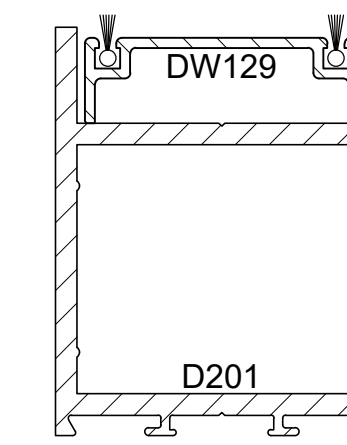


1/4" GLASS - TAPERED



1" GLASS

GLAZING OPTIONS



TOP AND BOTTOM WEATHERSTRIPPING

Revisions By:



C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS
2508 E. Vernon Avenue, Los Angeles, CA 90058-1897
PH (800)-421-6144 FX (800)-587-7501 www.crlaurence.com

Description:
**U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM**

Drawn By: AAD
Date: 4/5/13
Scale: AS NOTED
File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg

Sheet

8.6



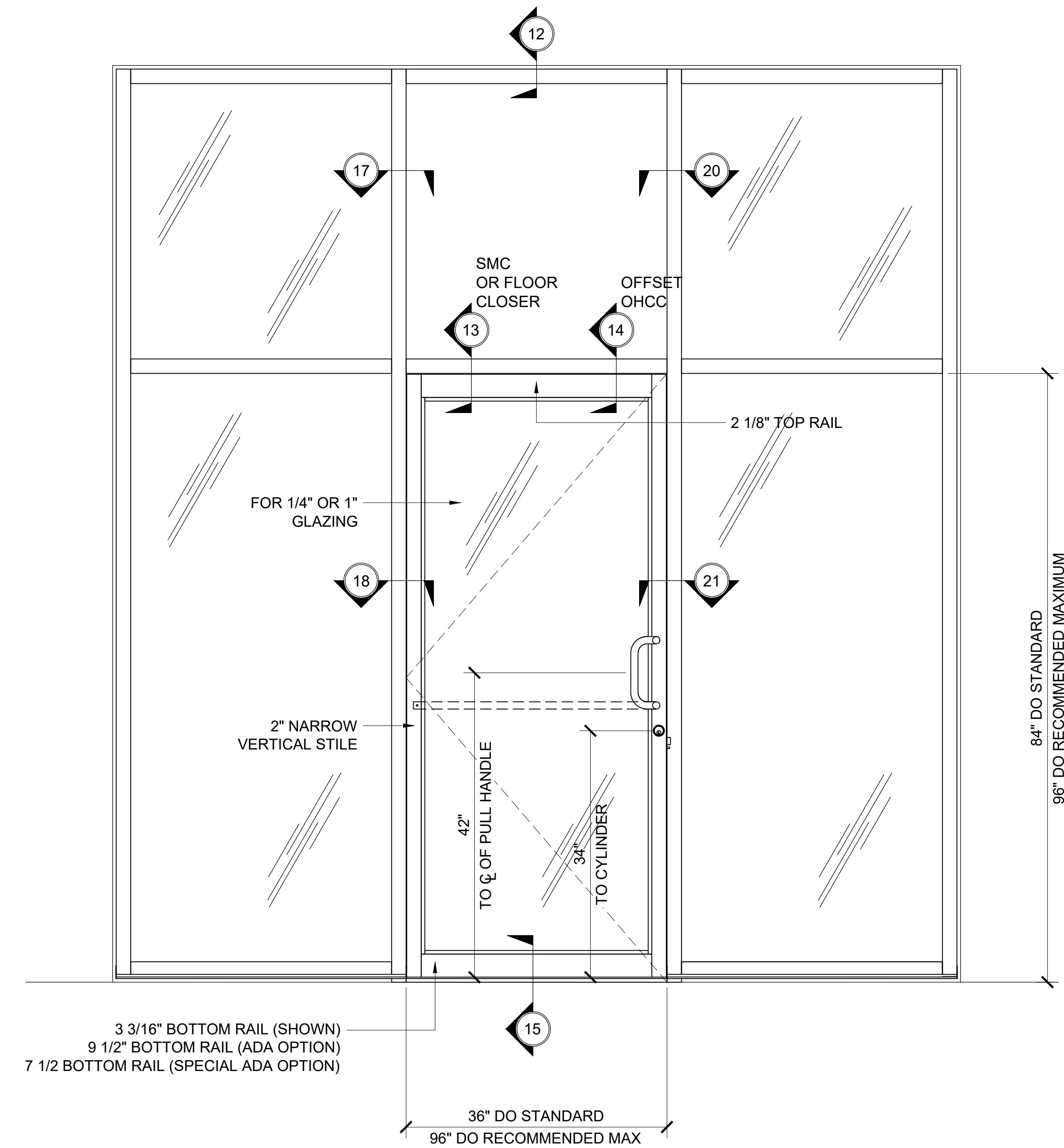
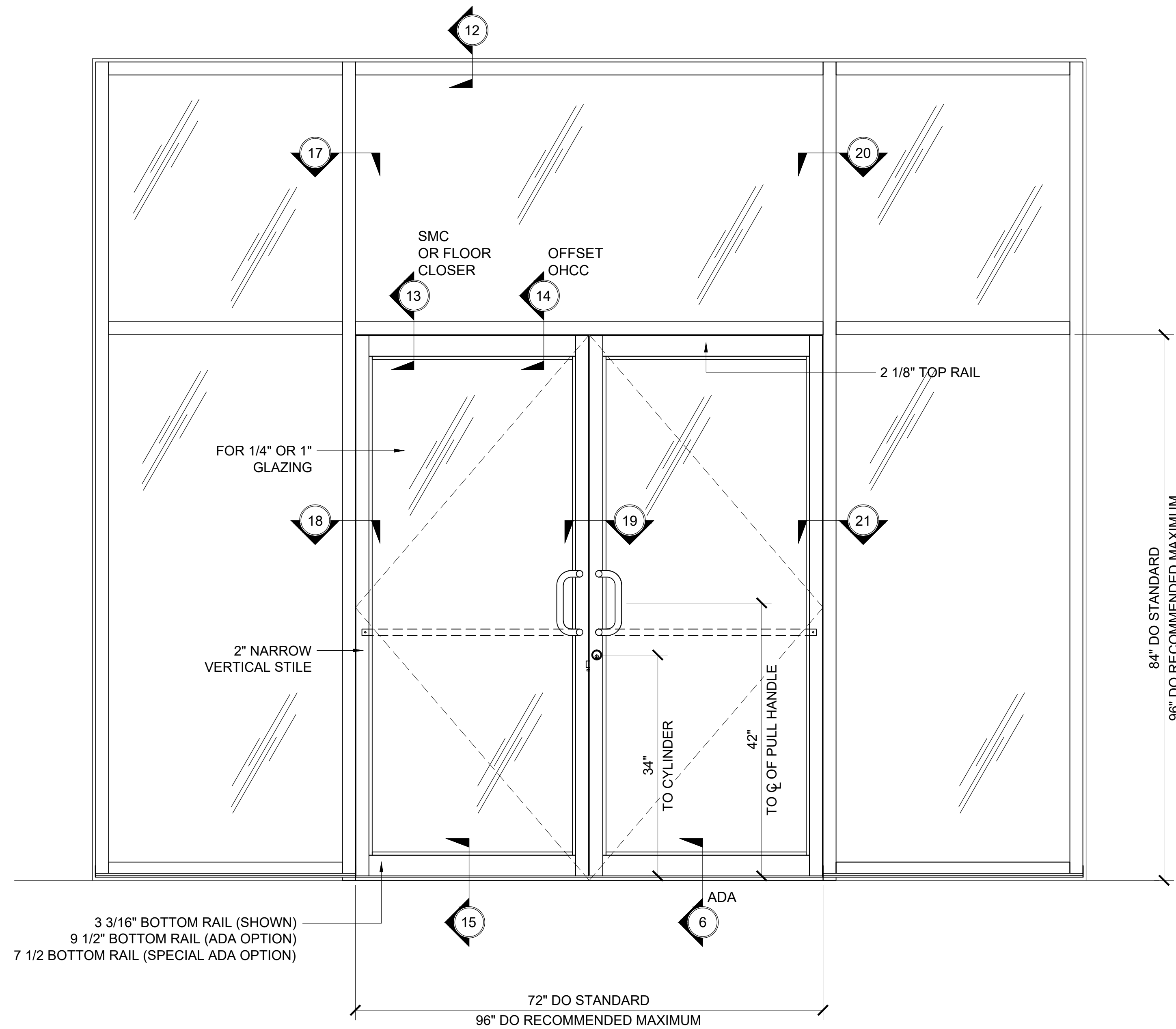
STOREFRONTS

SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM OFFSET HUNG DOOR FRAMING

IT451 SERIES SPECIFICATIONS

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DLO	DAYLITE OPENING
DO	DOOR OPENING
DD	DOOR DIMENSION
SMC	SURFACE MOUNTED CLOSER
OHCC	OVERHEAD CONCEALED CLOSER

Revisions By:



Description:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

Drawn By: AAD
Date: 4/5/13
Scale: AS NOTED
File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg

For more than 50 years, U.S. Aluminum has been designing and manufacturing quality architectural aluminum products for the nonresidential construction market. Projects throughout North America are proof that U.S. Aluminum has the manufacturing, engineering, and service capabilities to make your next project a success. Our complete product line includes: doors, entrances, storefronts, impact resistant systems, window walls, curtain walls, sunshades, and commercial windows. Custom systems can be designed to meet specific project requirements. Supplying architects, engineers, and building owners with quality products, on time, is what U.S. Aluminum is all about. Give us a call today to see for yourself that U.S. Aluminum is clearly THE SOLID CHOICE.

PAINT SPECIFICATIONS

DURANAR® Coatings

Duranar® Coatings contain 70% Kynar 500® or Hylar 5000® fluoropolymer resin, and superior performance pigmentation for the best color retention. This coating exceeds the performance requirements of specification AAMA 2605, and offers exceptional fade and chalking resistance for high-rise or high profile projects.

- Minimum of 70% fluoropolymer resin for premium performance in solid colors
- Two coat system: Corrosion inhibiting primer at 0.2 mil. and durable high performance topcoat at 1.0 mil. Minimum total dry thickness or 1.2 mil.
- Hardness: F minimum
- Gloss: Medium (25-35 @ 60°)
- Meets or exceeds AAMA 2605 specification

DURANAR® SUNSTORM™ Coatings

Duranar® Sunstorm™ Coatings contain 70% Kynar 500® or Hylar 5000® fluoropolymer resin for superior performance in pearlescent colors. This coating exceeds the performance requirements of specification AAMA 2605, and offers exceptional fade and chalking resistance for high-rise or high profile projects.

- Minimum of 70% fluoropolymer resin for premium performance pearlescent colors
- Two coat system: Corrosion inhibiting primer at 0.2 mil. and durable high performance topcoat at 1.0 mil. Minimum total dry thickness or 1.2 mil.
- Hardness: F minimum
- Gloss: Medium (25-35 @ 60°)
- Meets or exceeds AAMA 2605 specification

The 23 standard colors shown are the most popular colors being specified in today's architectural structures. Custom colors can be mixed and matched as required.

MANUFACTURING FACILITIES

U.S. Aluminum Serves You From 12 Locations in North America

Los Angeles, CA

2450 E. Vernon Ave.
Los Angeles, CA 90058-1802
Toll Free Phone: (800) 262-5151
Phone: (323) 268-4230
Fax: (866) 262-3299

Atlanta, GA

5530 Westpark Drive SW
Atlanta, GA 30336-2645
Phone: (404) 344-3468
Fax: (404) 344-3412

Chicago, IL

5501 W. Ogden Ave.
Cicero, IL 60804-3507
Phone: (708) 458-9070
Fax: (708) 458-7364

Concord, Ontario (Toronto Area)

65 Tigi Ct.
Concord, ON L4K 5E4 Canada
Phone: (905) 303-7966
Fax: (905) 303-7965

Dallas, TX

2080 Lone Star Dr.
Dallas, TX 75212-6390
Phone: (214) 634-7305
Fax: (214) 631-6519

Houston, TX

4420 Windfern Rd.
Houston, TX 77041-8918
Phone: (713) 462-6300
Fax: (713) 462-6306

Langley, BC (Vancouver Area)

5377 272nd St.
Langley, BC V4W 1P1 Canada
Phone: (604) 857-7766
Fax: (604) 857-1377

Miami, FL (Formerly Delta Doors)

7500 N. W. 69th Ave.
Miami, FL 33166-2543
Phone: (305) 888-0077
Fax: (305) 884-3111

Orlando, FL

6950 Presidents Dr.
Orlando, FL 32809-5668
Phone: (407) 857-7900
Fax: (407) 857-7766

Rock Hill, SC (Charlotte, NC Area)

720 Celriver Rd.
Rock Hill, SC 29730-8937
Phone: (803) 366-8326
Fax: (803) 366-5776

St. Louis, MO

11621 Fairgrove Industrial Blvd.
Maryland Heights, MO 63043-3437
Phone: (314) 997-5112
Fax: (314) 997-7504

Waxahachie, TX (Dallas Area)

200 Singleton Dr.
Waxahachie, TX 75165-5094
Phone: (972) 937-9651
Fax: (972) 937-0405

ENTRANCES

SERIES 550

WIDE STILE ALUMINUM DOORS

For Heavy Traffic



A CRH COMPANY

usalum.com • crlaurence.com
crl-arch.com



Series 550
Wide Stile

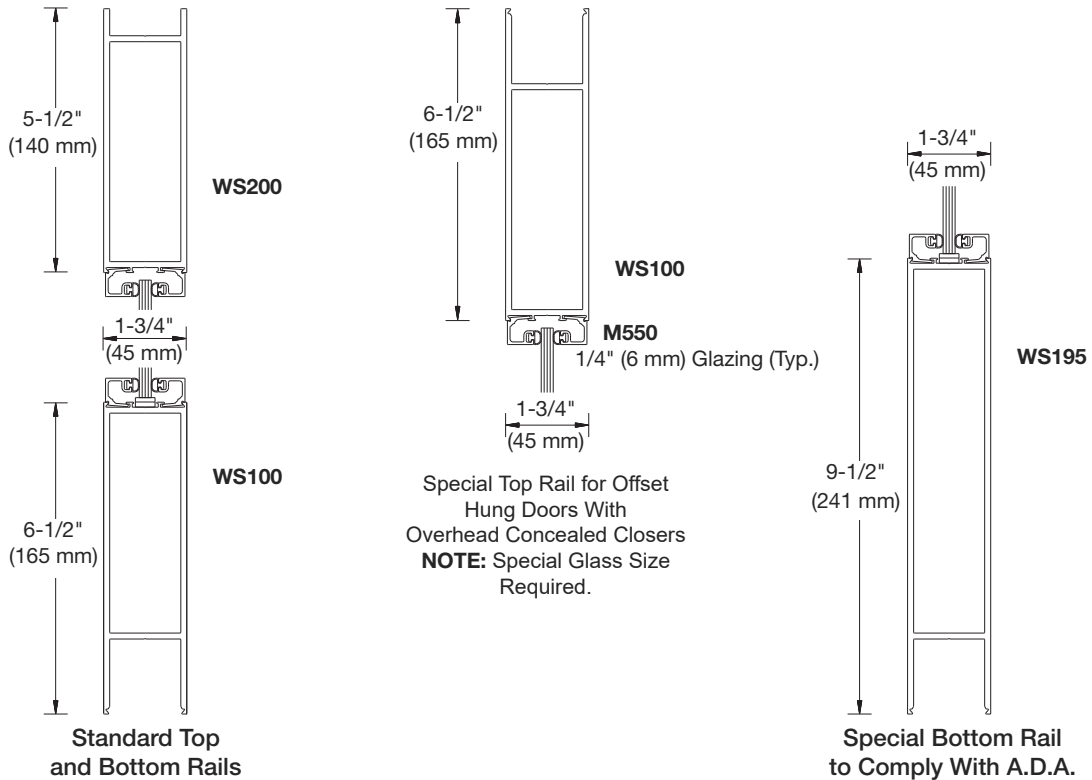
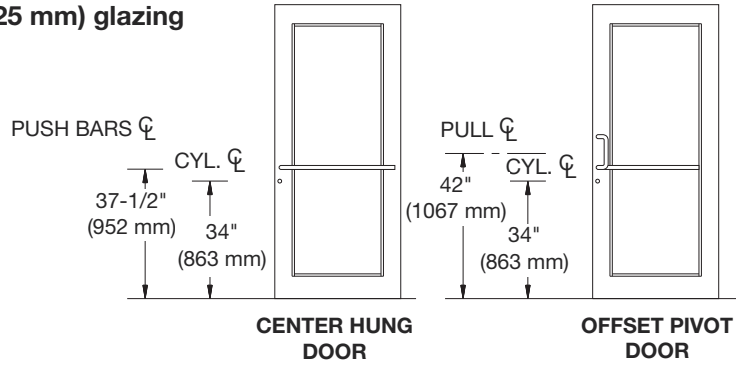
- For 1/4 " or 1" (6 or 25 mm) Glazing
- Adjustable Weatherstrip Astragal at Meeting Stiles
- Accommodates Most Custom Hardware
- Standard 1" (25 mm) Diameter Solid Push/Pulls
- Exterior and Interior Applications
- Available for Center Hung, Offset Pivot, or Butt Hinge Applications
- Choice of Standard or A.D.A. Access Bottom Rails
- Clear Anodized and Bronze Anodized in Single or Pairs of Doors
- Custom Sizes, Finishes, and Options Available

Our Entrance Doors are consistently built to the highest industry standards, ensuring years of reliable service. All doors are supplied with push/pull hardware, maximum security locks, and easily accommodate a wide variety of custom hardware for specific job requirements.

SERIES 550 WIDE STILE TYPICAL DETAILS

For 1/4" (6 mm) or 1" (25 mm) glazing

For Specifications, Details, and Testing Data go to usalum.com.



NOT TO SCALE

NEW CLOPAY COMMERCIAL – MODEL 904
architectural series



ALUMINUM FULL-VIEW DOORS

Clopay's new Model 904, possesses a sleeker design with fewer lines and angles to its appearance. It has equal stile spacing with rails and stile profiles more proportional to each other. This new design provides a more aesthetically pleasing appearance making it ideal in applications such as restaurants, auto dealerships and fire stations.

clopaycommercial.com



Frame Detail



Section Joint Seal



Reinforcing Fin (where applicable)



OPTIONS

PANEL OPTIONS

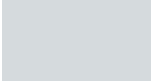


Aluminum Full-View

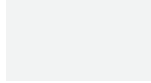


Solid Aluminum

FRAME/SOLID PANEL COLOR OPTIONS



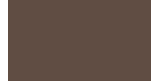
Clear Aluminum (Anodized)



Standard White (Painted)



Bronze (Painted)



Chocolate (Painted)



Bronze (Anodized)*



Black (Anodized)*



Dark Bronze (Anodized)*

*Additional cost and lead time may apply. The use of "Bronze (Painted)" is recommended due to slight color variation that may occur during the anodizing process.

CUSTOM PAINT OPTIONS

Color Blast® finish paint system or RAL Powder Coating give you thousands of color options for endless upgrades. See your Clopay Dealer for details.



GLASS/PANEL OPTIONS



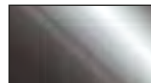
Clear Glass



Gray Tinted Glass



Bronze Tinted Glass



Mirrored Glass*



Obscure Glass



White Laminate Glass*



Frosted Glass or Acrylic



Clear Acrylic



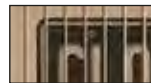
Gray Acrylic



White Acrylic



Clear Polycarbonate



Bronze Polycarbonate



Aluminum Panel (Color-matched)

*Glass/acrylic panels may be combined with aluminum panels. Custom glass and colors available.

PERFORMANCE OPTIONS

HEAVY-DUTY HARDWARE



Double-end Hinge



3" Track



High Performance Hardware

SPECIALTY PRODUCTS



Center Mullions



Exhaust Port

OPTIONAL WARRANTY

Extended 8-year hardware warranty includes upgraded industrial hardware. Upgraded hardware includes 3" track and rollers, 11 gauge hinges, heavy duty brackets, solid shaft and more.



WINDCODE®



Design pressures (DP) up to 14 PSF depending on size. Models tested 50% greater than DP.

STANDARD SPECIFICATIONS

Max Width	24' 2"
Max Height	20' 0"
Exterior/Interior Panel Thickness	2-1/8"
End Stile Thickness	4.5" wide single up to 14' 2" 6.5" wide double over 14' 2"
Emboss	Recessed panel with smooth surface
Panel Style	Full-view or solid aluminum panel
Section Construction	6063-T5 extruded aluminum alloy
Window Style	Full-view

Glass	DSB glass, tempered glass, acrylic, thicknesses of 1/8", 1/4" and 1/2"	
Solid Panels	Insulated and non-insulated aluminum panels	
Wind Load	Non-impact rated	
Joint Seal	Yes	
Springs	10,000 cycle springs Galvanized aircraft cable with minimum 7:1 safety factor	
Tracks	2" angle mount track with standard lift 3" track where applicable	
Hardware	TPE astragal in aluminum retainer Steel step plate and lift handle Inside slide lock for increased security	Commercial 10-ball steel rollers 14 gauge hinges
Warranty	Standard Paint – 5 Years Material and Workmanship – 1 Year	Color Blast® finish – 5 Years Hardware – 1 Year



For more information on these and other Clopay products, call 1-800-526-4301 or visit clopaycommercial.com



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CMDC-904-19_REV0920

FLUSH HOLLOW METAL DOOR

Heavy-duty steel door for commercial, industrial and institutional applications

Our stock hollow metal door is an affordable non-handed, square-edge door solution designed to meet your requirements for quality full flush steel doors - for commercial, institutional and industrial applications. Stocked with Steelcraft locations, these doors are designed to satisfy your requirements for durability, security, aesthetics or fire protection. Trudoor is authorized by Warnock Hersey / Intertek to modify, re-certify and label fire-rated metal doors.

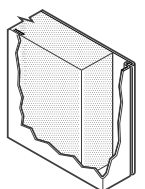
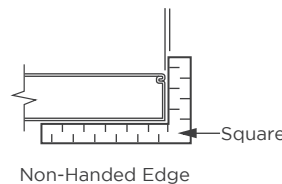
Features:

- Heavy-duty, SDI Level 2 - 18 gauge steel faces
- 1-3/4" Thick, non-handed design with reversible hinge plates
- Polystyrene or rigid honeycomb core
- Inverted top and bottom channels for additional stability and protection
- Interlocking seam enhances structural rigidity and durability
- Heavy gauge hinge reinforcements and door closer reinforcement
- Available with a wide range of glass lites, louvers and hardware preps
- Factory applied rust inhibiting primer (no special color options)
- Fire-rated up to 3 hours with WHI / ITS mylar label applied
- Preps include 161 (cylindrical lock), 86ED (mortise lock), RPD (Rim Panic Reinforced)

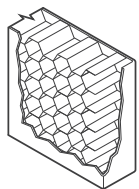


Code Compliance:

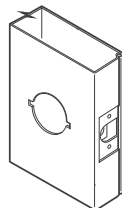
- Meets or exceeds ANSI A250.6 and A250.8
- Construction meets the requirements of ANSI A250.8
- Listed for installations requiring compliance to negative pressure testing (UL-10B) and positive pressure (UL-10C)
- Florida Product Approved



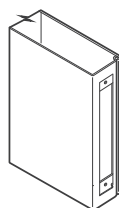
Polystyrene Core



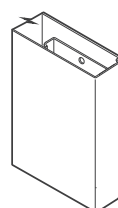
Honeycomb Core



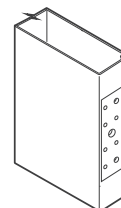
161 Lock



86ED Lock



RPD



Non-Handed Mortise Hinge Prep



Grade and Model:

ANSI A250.8 - SDI 100			Edge Construction	Maximum Sizes		Recommended Gauge of Frame
Level	Model	Description		Single	Pair	
Level 2: Heavy Duty Commercial			18 gauge (1.0 mm) - heavy commercial and institutional applications with high use			
2	1	Full Flush	Visible	4'0" x 8'0"	8'0" x 8'0"	16 gauge (1.3 mm)

Grades and models defined by Steel Door Institute (SDI)

Manufacturers include Steelcraft and ASSA Abloy