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Product Approval
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 Application Detail

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FL #	FL47490-R1										
Application Type	Revision										
Code Version	2023										
Application Status	Approved										
Comments											
Archived	☐										
Product Manufacturer	Eco Window Systems										
Address/Phone/Email	8502 NW 80th Street Suite 103 Medley, FL 33166 (305) 885-5299 carlos.martinez@ecowindowssystems.com										
Authorized Signature	Carlos Martinez carlos.martinez@ecowindowssystems.com										
Technical Representative	Carlos Martinez										
Address/Phone/Email	8502 NW 80th Street #103 Medley, FL 33166 (786) 307-2474 carlos.martinez@ecowindowssystems.com										
Quality Assurance Representative											
Address/Phone/Email											
Category	Exterior Doors										
Subcategory	Sectional Exterior Door Assemblies										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Javad Ahmad										
Florida License	PE-70592										
Quality Assurance Entity	Keystone Certifications, Inc.										
Quality Assurance Contract Expiration Date	12/16/2034										
Validated By	Ammad Riaz, P.E. ☒ Validation Checklist - Hardcopy Received										
Certificate of Independence	FL47490_R1_COI_Certificate_of_Independence_JA-PE_ECO.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM E283/E283M</td> <td>2019</td> </tr> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	ASTM E283/E283M	2019	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year										
ASTM E283/E283M	2019										
TAS 201	1994										
TAS 202	1994										
TAS 203	1994										
Equivalence of Product Standards Certified By											
Sections from the Code											
Product Approval Method	Method 1 Option D										
Date Submitted	04/16/2026										
Date Validated	04/16/2026										
Date Pending FBC Approval	05/05/2026										
Date Approved	06/10/2026										

Summary of Products

FL #	Model, Number or Name	Description
47490.1	870 Series Garage Door System (L.M.I. & S.M.I.)	Large and Small Missile Impact Resistant Sectional Garage Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +45/-50 Other: Please see the enclosed documents for product performance information, anchorage details, anchor type, maximum size and spacing information.		Installation Instructions FL47490_R1_II_870_SERIES_GARAGE_DOOR-JA-1689-24-SS.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL47490_R1_AE_ECO_870_Garage_Door-LMI-PA_EVR.pdf Created by Independent Third Party: Yes
47490.2	875 Series Garage Door System (L.M.I. & S.M.I.)	Large and Small Missile Impact Resistant Sectional Garage Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +45/-55 Other: Please see the enclosed documents for product performance information, anchorage details, anchor type, maximum size and spacing information.		Installation Instructions FL47490_R1_II_875_SERIES_GARAGE_DOOR-JA-1169-26-SS.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL47490_R1_AE_ECO_875_Garage_Door-LMI-PA_EVR-R1.pdf Created by Independent Third Party: Yes



PRODUCT EVALUATION REPORT

- Florida Building Code - 8th Edition (2023) -

Per Rule 61G20-3 / Method 1 - D

FL #: 47490.2

DATE: 04/13/2026

Product Description

Manufacturer: ECO WINDOW SYSTEMS, LLC
Address: 8502 NW 80th St #103, Medley, FL 33166
Model Name: 875 Series Garage Door System (L.M.I. & S.M.I.)
Maximum Load: +45.0 PSF / -55.0 PSF (Large & Small Missile Impact)
Drawing No.: JA-1169-26, signed and sealed by Javad Ahmad, P.E. - FL License No. 70592

This product COMPLIES with the 2023 Florida Building Code - 8th Edition (2023 FBC) for use in the High-Velocity Hurricane Zone (HVHZ) per TAS 201/202/203.

For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.

Comparative Analysis used: ☐ YES ☒ NO

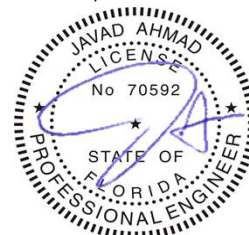
Mandatory Tests (Tested in accordance with AAMA 501 / 101 / I.S.2 / NAFS / TAS 202)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
TAS 202-94	Uniform Static Test	IFET, Inc. Miami, FL 33126	03/19/2025	TR-IFET-25-0013.2	Arshad Viqar, P.E. FL PE# 38863
TAS 202-94	Forced Entry Resistance				
ASTM E283/E283M-19	Air Infiltration Leakage	IFET, Inc. Miami, FL 33126	04/01/2026	TR-IFET-26-0022	Arshad Viqar, P.E. FL PE# 38863
TAS 202-94	Uniform Static Test				
Supplemental Tests (Tested in accordance with TAS 201 and TAS-203)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
TAS 201-94	Impact Test (Large Missile Impact)	IFET, Inc. Miami, FL 33126	03/19/2025	TR-IFET-25-0013.2	Arshad Viqar, P.E. FL PE# 38863
TAS 203-94	Cyclic Wind Pressure Load				
TAS 201-94	Impact Test (Large Missile Impact)	IFET, Inc. Miami, FL 33126	04/01/2026	TR-IFET-26-0022	Arshad Viqar, P.E. FL PE# 38863
TAS 203-94	Cyclic Wind Pressure Load				

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code - 8th Edition (2023 FBC).

Evaluation Report Engineer:

Javad Ahmad, PE

FL P.E.# 70592
EB C.A.N. # 34254
JAVAD AHMAD PE, Inc.



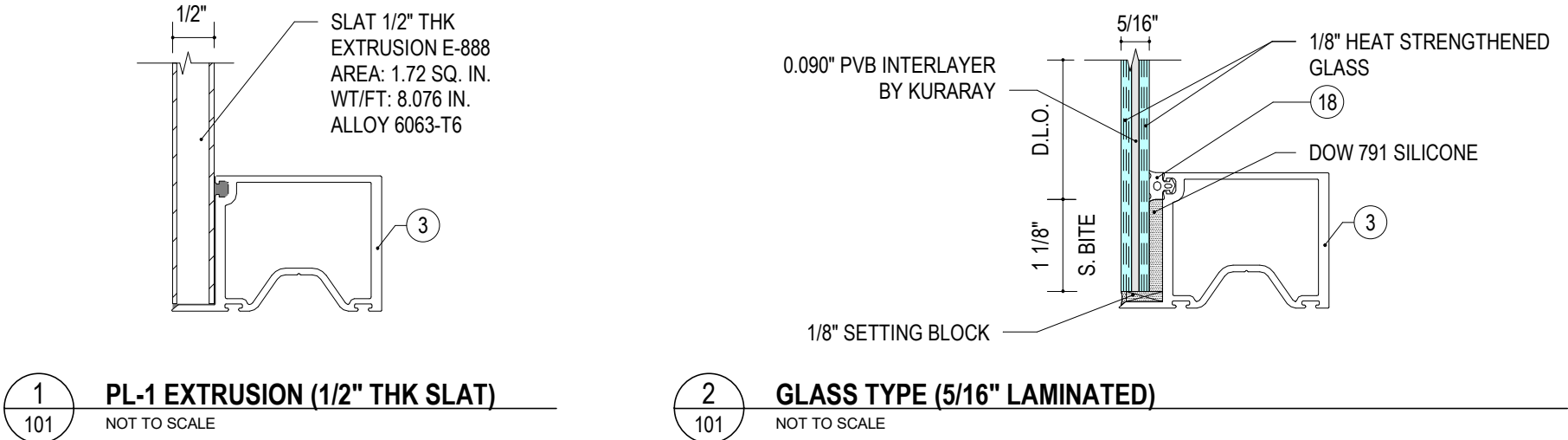
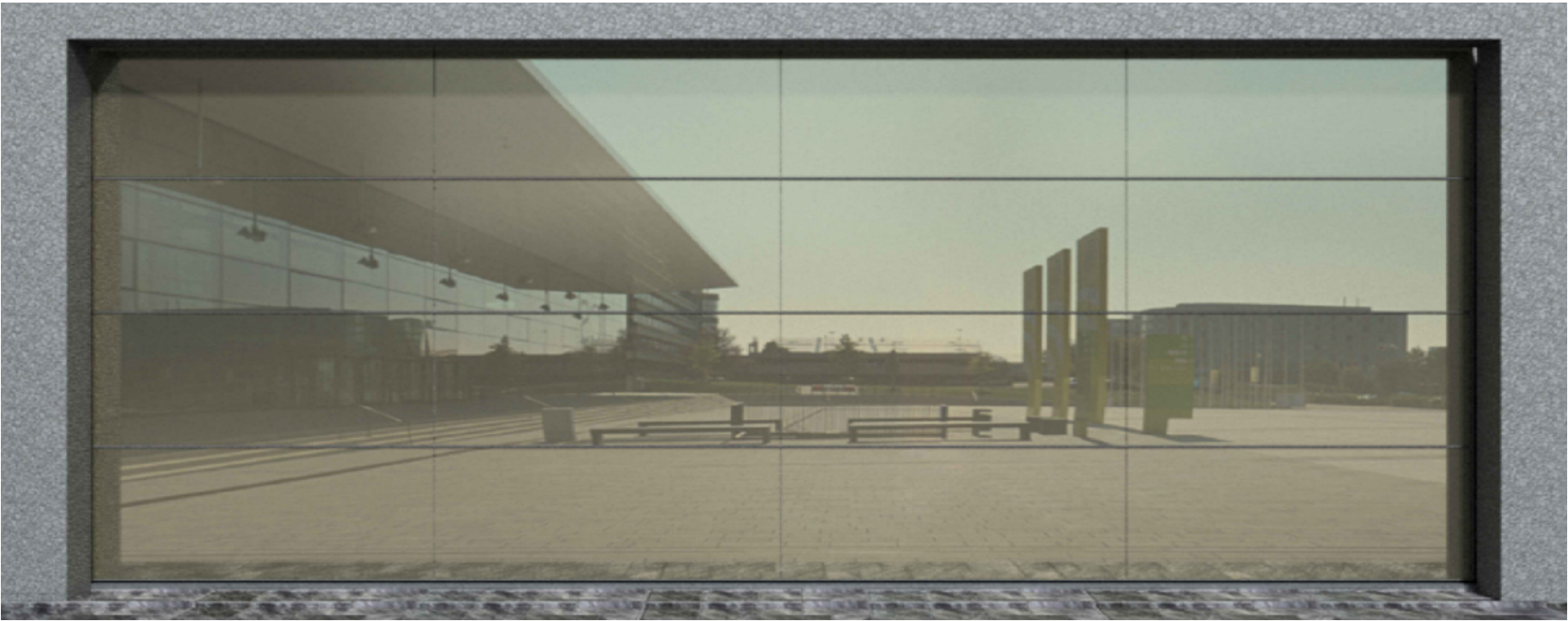
Sealed:
04/13/2026

SHEET INDEX	
101	COVER PAGE
102	TYPICAL ELEVATION
103	TYPICAL ELEVATION
104	TYPICAL ELEVATION
105	TYPICAL ELEVATION
106	SECTIONAL DETAILS
107	SECTIONAL DETAILS
108	SECTIONAL DETAILS
109	SECTIONAL DETAILS
110	SECTIONAL DETAILS
111	SECTIONAL DETAILS
112	BRACKET LAYOUT
113	ANCHORAGE LAYOUT
114	SUBSTRATE LAYOUT
115	PARTS LIST
116	BILL OF MATERIAL
117	FRAME ASSEMBLY

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DESIGN PRESSURES:

- MAX. DOOR SIZE: 218" X 96" (4 SECTIONS) - (+45/-55 PSF)
- MAX. DOOR SIZE: 218" X 120" (5 SECTIONS) - (+45/-55 PSF)
- MAX. DOOR SIZE: 218" X 144" (6 SECTIONS) - (+45/-55 PSF)



GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PER TAS 201/202/203.
- GLASS CAPACITIES MENTIONED IN THE PRESSURE CHARTS IN THIS CERTIFICATION ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
- DESIGN PRESSURES MENTIONED IN THIS CERTIFICATION AS ALLOWABLE PRESSURES (ASD) BASED ON TESTED PRESSURE DIVIDED BY A FACTOR OF SAFETY OF 1.5.
- THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH THE STANDARDS IN NOTE 1 OF THE GENERAL NOTES AND IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE IMPACT RESISTANT SHUTTERS.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE ANY SITE SPECIFIC INSTALLATION INFORMATION. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A QUALIFIED ENGINEER LICENSED IN THE STATE OF FLORIDA SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- FASTENERS DESCRIBED IN THIS CERTIFICATION ARE PERMITTED TO BE SUBSTITUTE PROVIDED THE STRENGTH OF THE ALTERNATIVE ANCHOR IS EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED ANCHOR. FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE BY OTHERS.
- FASTENERS SHALL BE CADMIUM PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3 OF THE CURRENT CODE BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS SHOWN ONLY. THE USE OF THIS SPECIFICATION BY THE CONTRACTOR, ET AL., INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES, RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES, AND FROM DEVIATIONS OF THIS PLAN.
- THIS PRODUCT IS APPROVED FOR FORCED ENTRY RESISTANCE AS PER ASTM F-588.

- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:

ECO WINDOW SYSTEMS, LLC
8502 N.W. 80TH ST. MEDLEY, FL 33166
FLORIDA PRODUCT APPROVAL NUMBER FL# 47490.2

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.

FL# 47490.2



JAVAD AHMAD PE, inc

7320 NW 58th St,
Miami, FL 33166
Ph: (305) 424-8001
support@ja-pe.com

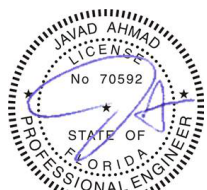
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

drawing no.	date:	JA-1169-26	drawn by:	MA	REVISION			
					No.	DATE	BY	DESCRIPTION

875 SERIES GARAGE DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC
8502 N.W. 80TH ST. MEDLEY, FL 33166
TEL: (305) 885-5259 FAX: (305) 885-5902



SEALED: 04-13-2026

101

101 OF 117

TYPICAL ELEVATION

FL# 47490.2

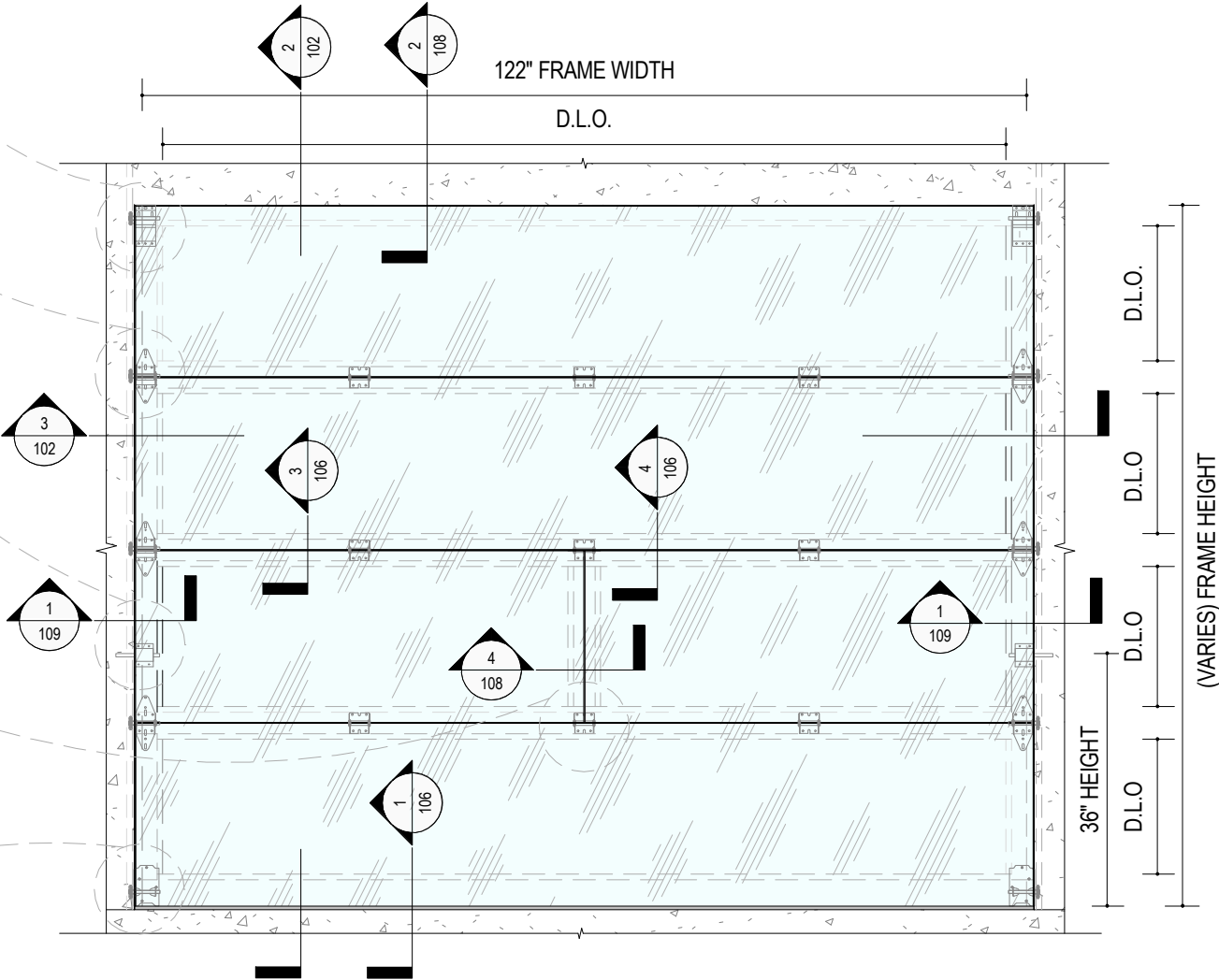
13 (1 @ EACH END)
GALVANIZED STEEL TOP FIXTURE
FASTENED W/ (6) #14X3/4" HWH
SELF DRILLING SCREWS.

11 (1 @ EACH END)
GALVANIZED STEEL ROLLER HINGE
FASTENED W/ (4) #14X3/4" HWH SELF
DRILLING SCREWS.

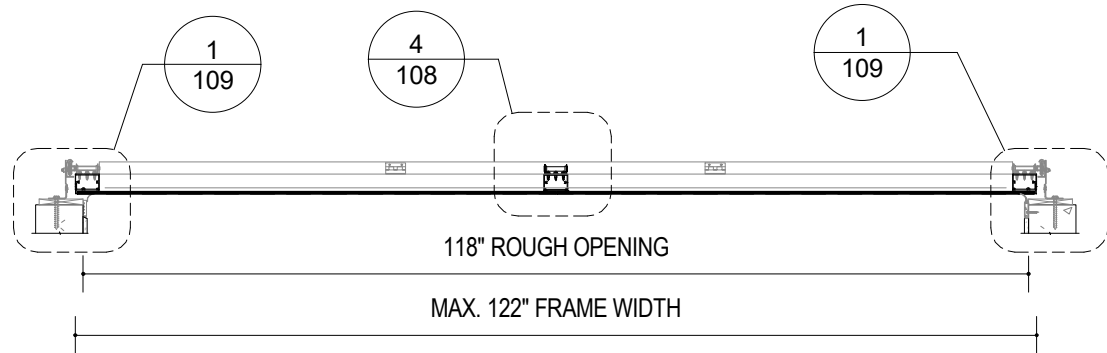
9 (2 PER DOOR)
STANDARD LOCK SPRING LOADED
SLIDE BOLT (BOTH SIDE)
FASTENED W/ (4) #14X3/4" HWH
SELF DRILLING SCREWS 5/8" MIN.

12 (3 PER STACK JOINT)
GALVANIZED STEEL HALF HINGE
FASTENED W/ (4) #14X3/4" HWH
SELF DRILLING SCREWS.

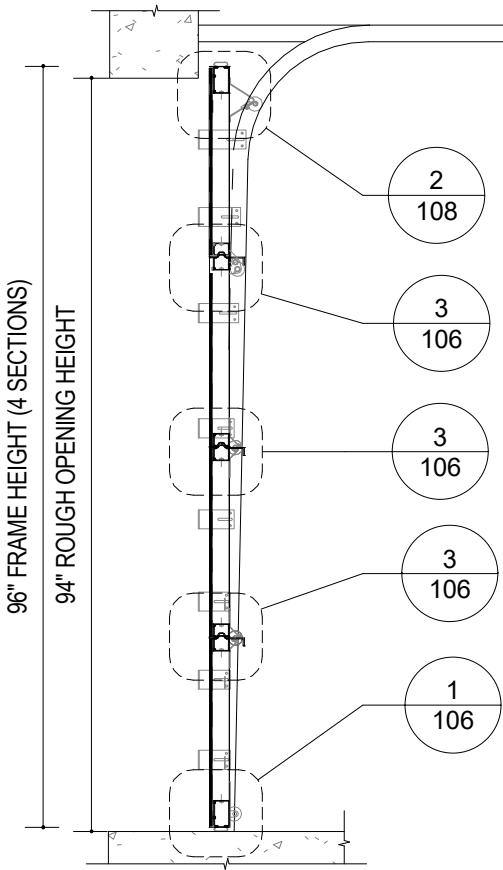
15 GALVANIZED STEEL BOTTOM FIXTURE
FASTENED W/ (4) #14X3/4" HWH SELF
DRILLING SCREWS.



1
102
GARAGE DOOR ELEVATION (122")
NOT TO SCALE



3
102
GARAGE DOOR HORIZONTAL SECTION (122")
NOT TO SCALE



2
102
GARAGE DOOR VERTICAL SECTION (122")
NOT TO SCALE

MAXIMUM DESIGN LOAD RATING = (+45/-55) PSF
(FOR SIZES SHOWN OR SMALLER)

NOMINAL DOOR HEIGHT	NO. OF SECTIONS
8'-0"	4 SECTIONS
10'-0"	5 SECTIONS
12'-0"	6 SECTIONS



JAVAD AHMAD PE, inc
7320 NW 58th St,
Miami, FL 33166
Ph: (305) 424-8001
support@ja-pe.com

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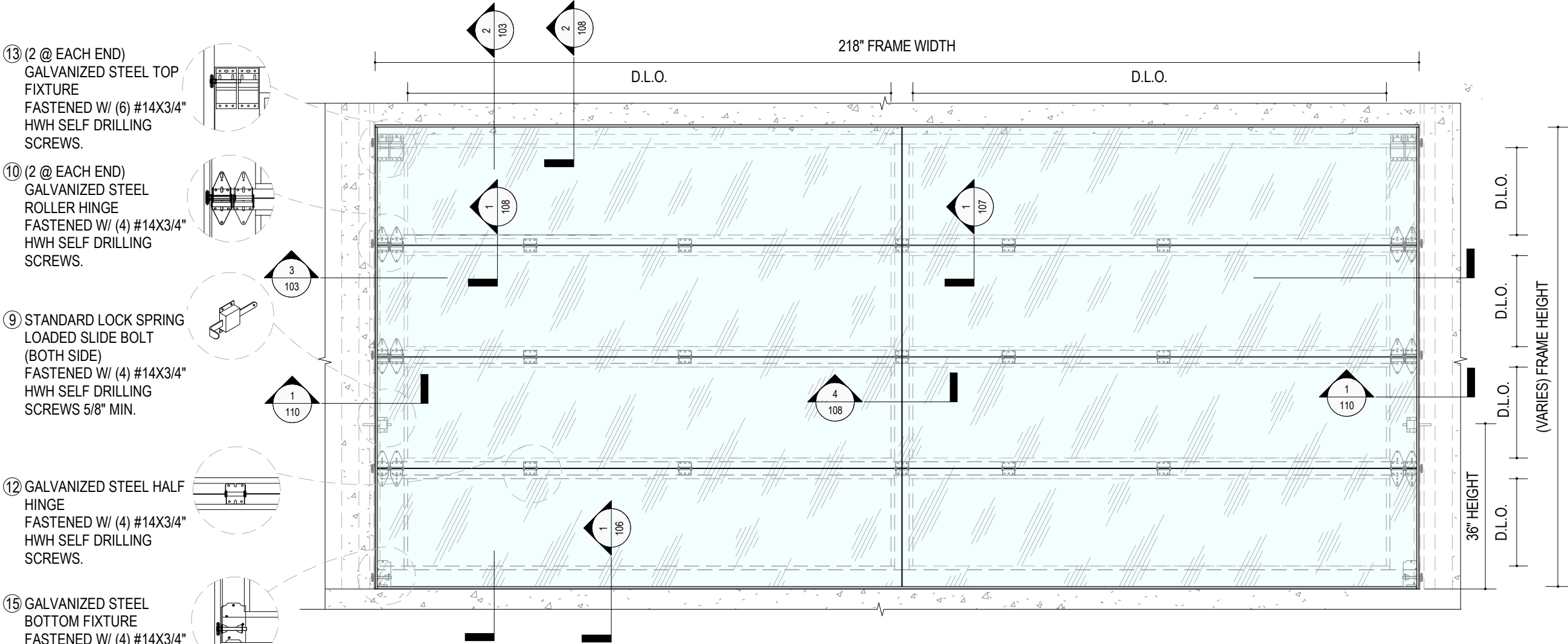
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date:	04-13-26	check by:	SR
REVISION			
No.	DATE	BY	DESCRIPTION

875 SERIES GARAGE DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)

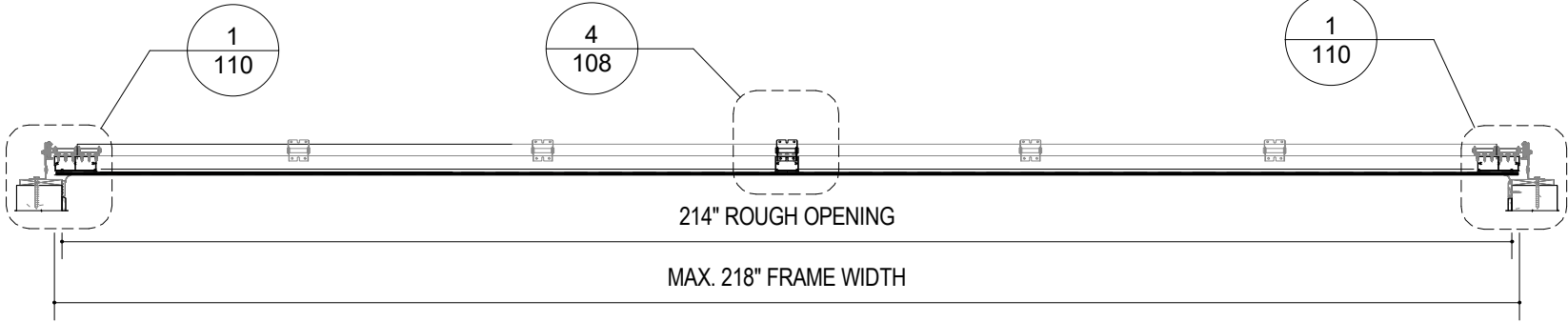


TYPICAL ELEVATION

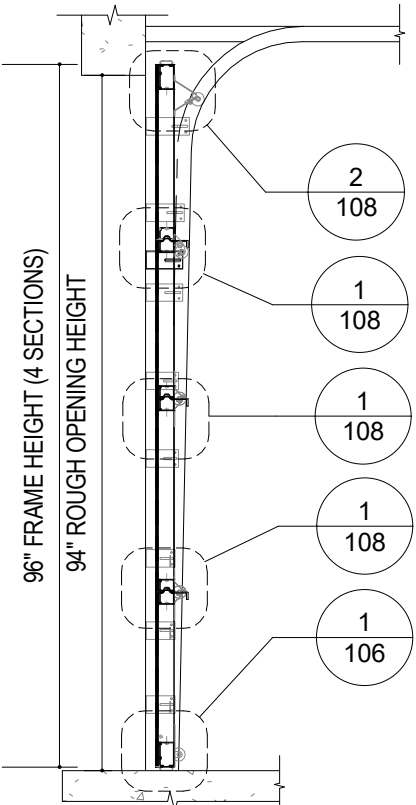
FL# 47490.2



1
103
GARAGE DOOR ELEVATION (218") TYPE 1
NOT TO SCALE



3
103
GARAGE DOOR HORIZONTAL SECTION (218") TYPE 1
NOT TO SCALE



2
103
GARAGE DOOR VERTICAL SECTION (218") TYPE 1
NOT TO SCALE

MAXIMUM DESIGN LOAD RATING = (+45/-55) PSF (FOR SIZES SHOWN OR SMALLER)	
NOMINAL DOOR HEIGHT	NO. OF SECTIONS
8'-0"	4 SECTIONS
10'-0"	5 SECTIONS
12'-0"	6 SECTIONS

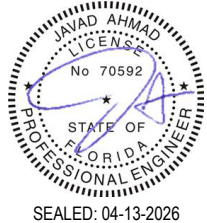


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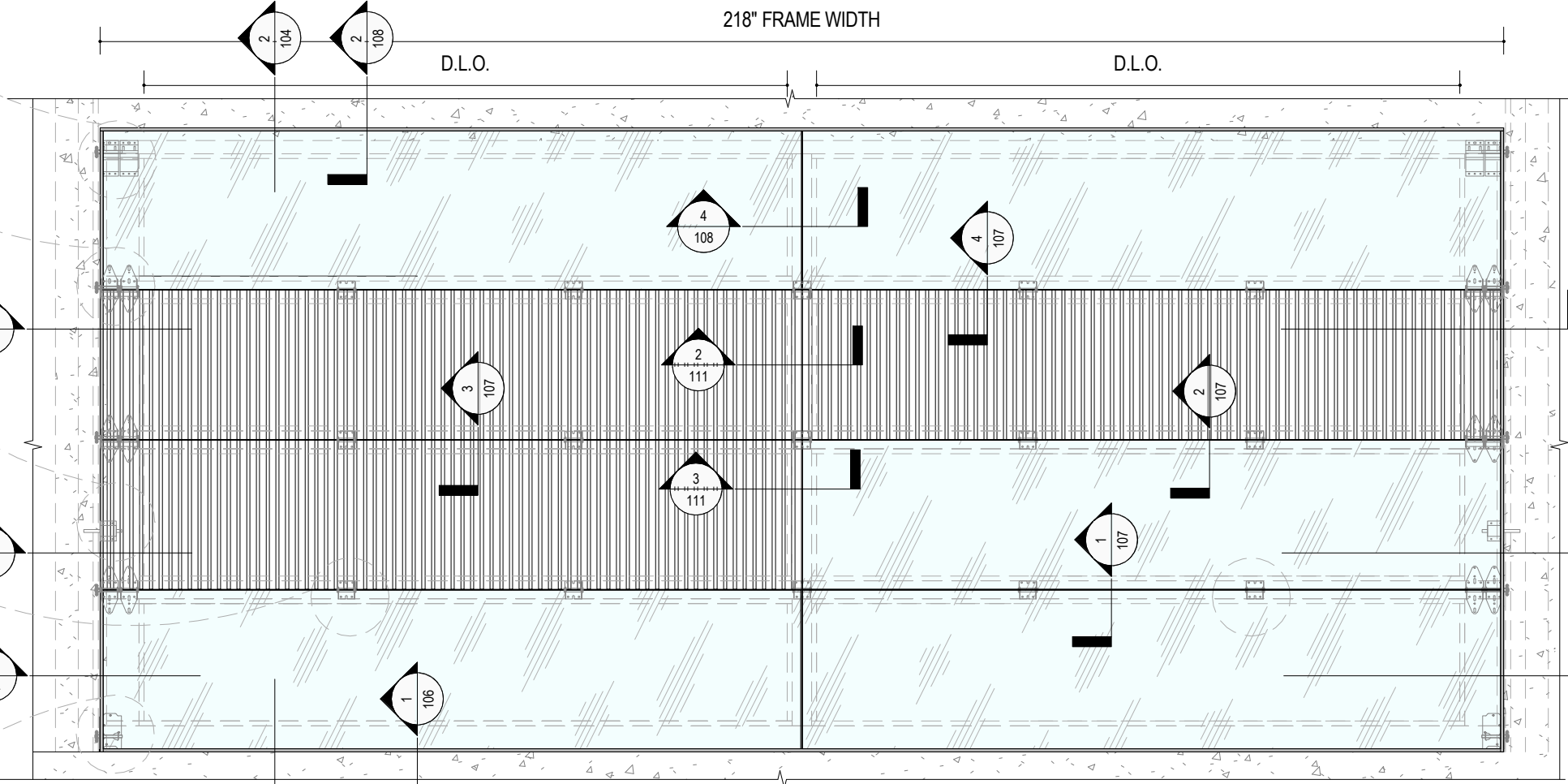
875 SERIES GARAGE DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



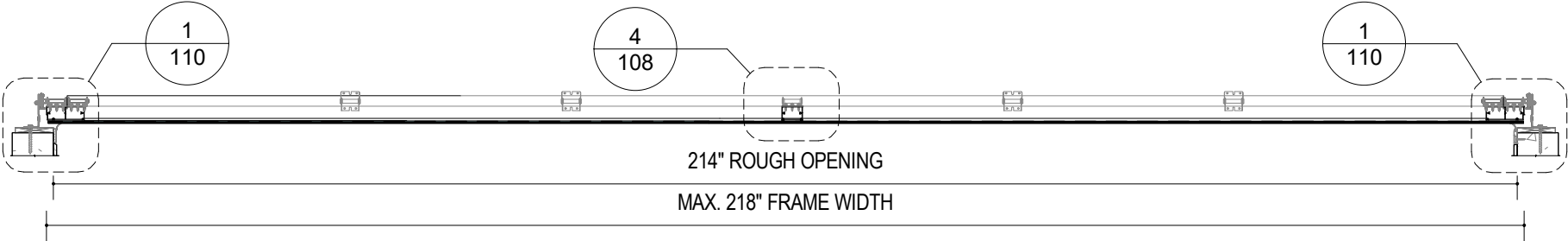
TYPICAL ELEVATION

FL# 47490.2

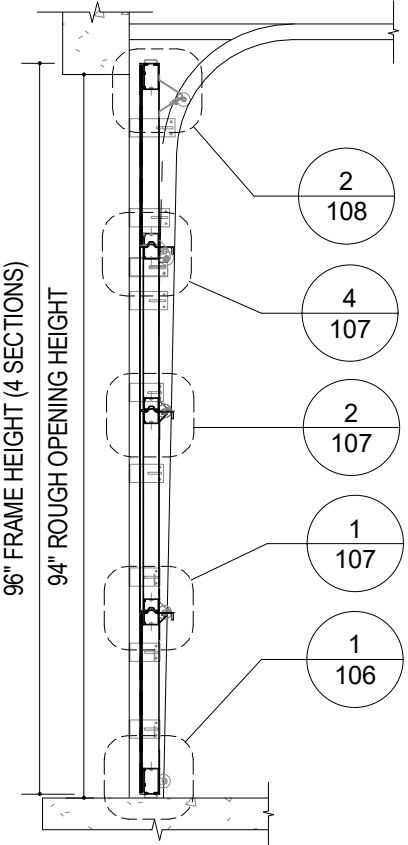
- 13 (2 @ EACH END)
GALVANIZED STEEL TOP
FIXTURE
FASTENED W/ (6) #14X3/4"
HWH SELF DRILLING
SCREWS.
- 10 (2 @ EACH END)
GALVANIZED STEEL
ROLLER HINGE
FASTENED W/ (4) #14X3/4"
HWH SELF DRILLING
SCREWS.
- 9 STANDARD LOCK SPRING
LOADED SLIDE BOLT
(BOTH SIDE)
FASTENED W/ (4) #14X3/4"
HWH SELF DRILLING
SCREWS 5/8" MIN.
- 12 GALVANIZED STEEL HALF
HINGE
FASTENED W/ (4) #14X3/4"
HWH SELF DRILLING
SCREWS.
- 15 GALVANIZED STEEL
BOTTOM FIXTURE
FASTENED W/ (4) #14X3/4"
HWH SELF DRILLING
SCREWS.



1
104
GARAGE DOOR ELEVATION (218") TYPE 2
NOT TO SCALE



3
104
GARAGE DOOR HORIZONTAL SECTION (218") TYPE 2
NOT TO SCALE



2
104
GARAGE DOOR VERTICAL SECTION (218") TYPE 2
NOT TO SCALE

MAXIMUM DESIGN LOAD RATING = (+45/-55) PSF (FOR SIZES SHOWN OR SMALLER)	
NOMINAL DOOR HEIGHT	NO. OF SECTIONS
8'-0"	4 SECTIONS
10'-0"	5 SECTIONS
12'-0"	6 SECTIONS

NOTE: GLASS AND SLATS MAY BE COMBINED AS DESIRED



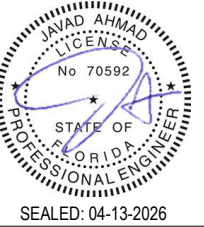
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Miami, FL 33166
Ph: (305) 424-8001
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drawing no.	JA-1169-26	drawn by:	MA
date:	04-13-26	check by:	SR
REVISION			
No.	DATE	BY	DESCRIPTION

875 SERIES GARAGE DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)

ECO WINDOW SYSTEMS, LLC
8802 N.W. 80th STREET, MIAMI, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902



SEALED: 04-13-2026

TYPICAL ELEVATION

FL# 47490.2

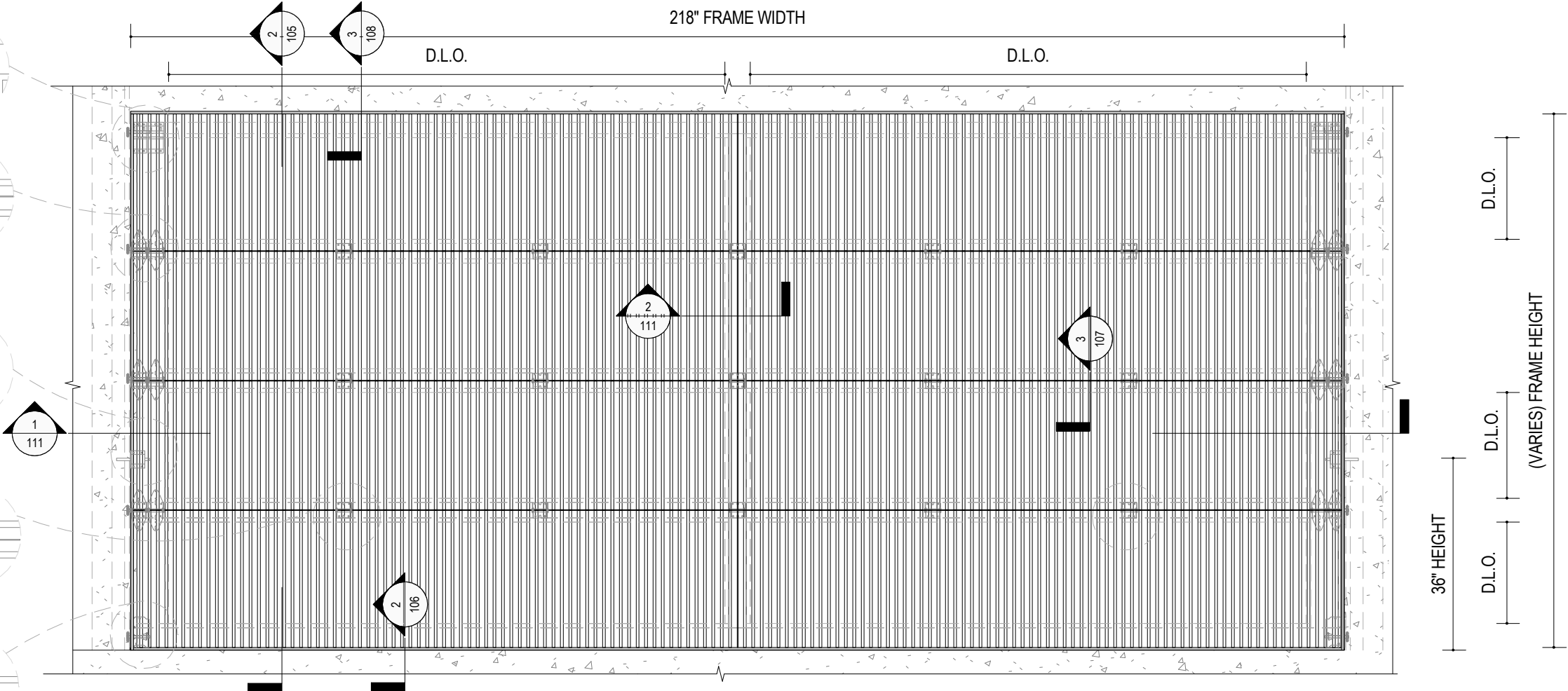
13 (2 @ EACH END)
GALVANIZED STEEL TOP
FIXTURE
FASTENED W/ (6) #14X3/4"
HWH SELF DRILLING
SCREWS.

10 (2 @ EACH END)
GALVANIZED STEEL
ROLLER HINGE
FASTENED W/ (4) #14X3/4"
HWH SELF DRILLING
SCREWS.

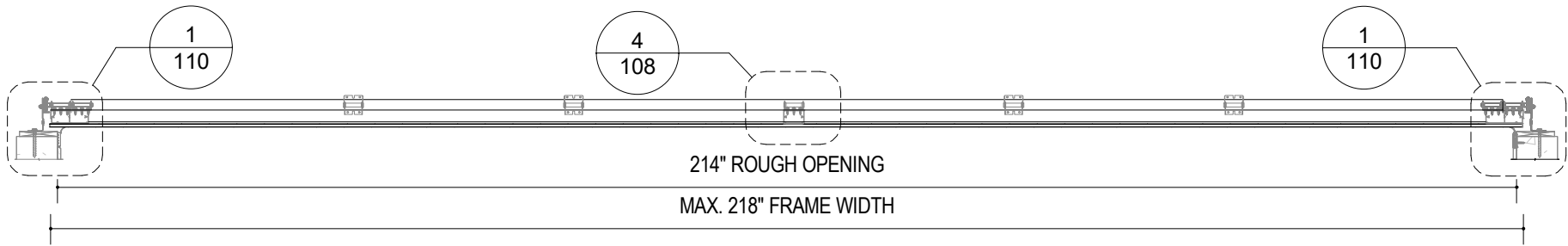
9 STANDARD LOCK SPRING
LOADED SLIDE BOLT
(BOTH SIDE)
FASTENED W/ (4) #14X3/4"
HWH SELF DRILLING
SCREWS 5/8" MIN.

12 GALVANIZED STEEL HALF
HINGE
FASTENED W/ (4) #14X3/4"
HWH SELF DRILLING
SCREWS.

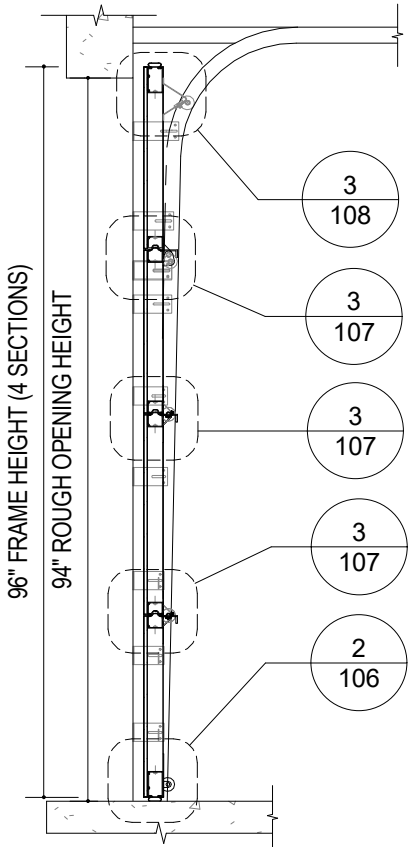
15 GALVANIZED STEEL
BOTTOM FIXTURE
FASTENED W/ (4) #14X3/4"
HWH SELF DRILLING
SCREWS.



1 GARAGE DOOR ELEVATION (218") TYPE 3
NOT TO SCALE



2 GARAGE DOOR HORIZONTAL SECTION (218") TYPE 3
NOT TO SCALE



3 GARAGE DOOR VERTICAL SECTION (218") TYPE 3
NOT TO SCALE

MAXIMUM DESIGN LOAD RATING = (+45/-55) PSF (FOR SIZES SHOWN OR SMALLER)	
NOMINAL DOOR HEIGHT	NO. OF SECTIONS
8'-0"	4 SECTIONS
10'-0"	5 SECTIONS
12'-0"	6 SECTIONS



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Miami, FL 33166
Ph: (305) 424-8001
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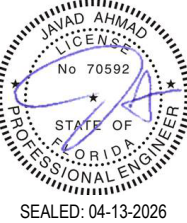
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No.	DATE	BY	DESCRIPTION

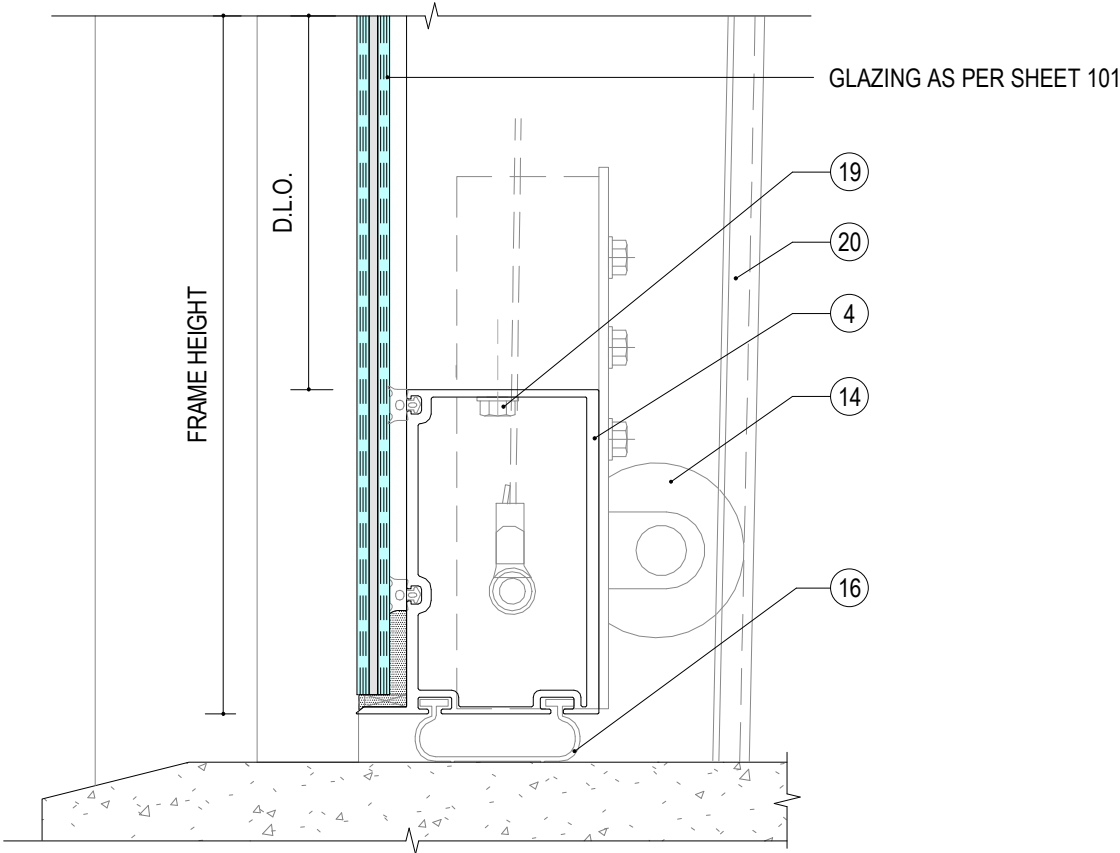
875 SERIES GARAGE DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



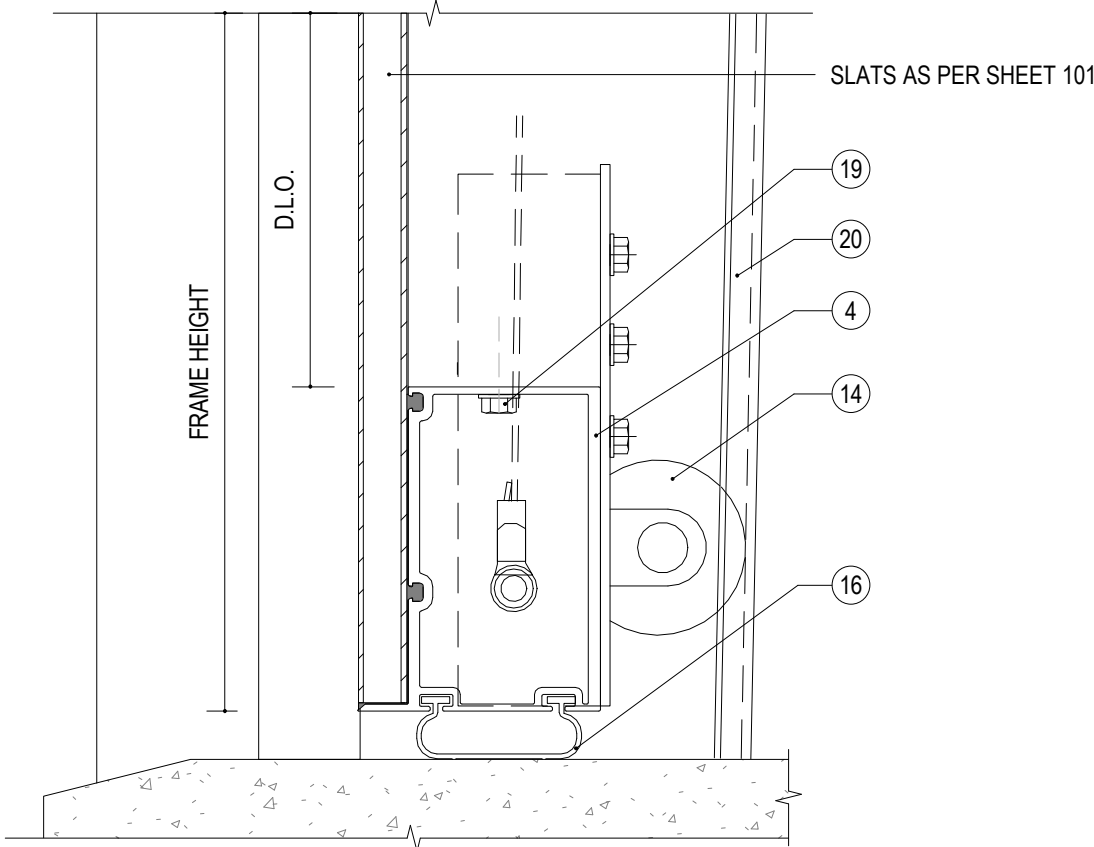
ECO WINDOW SYSTEMS, LLC.
8602 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902



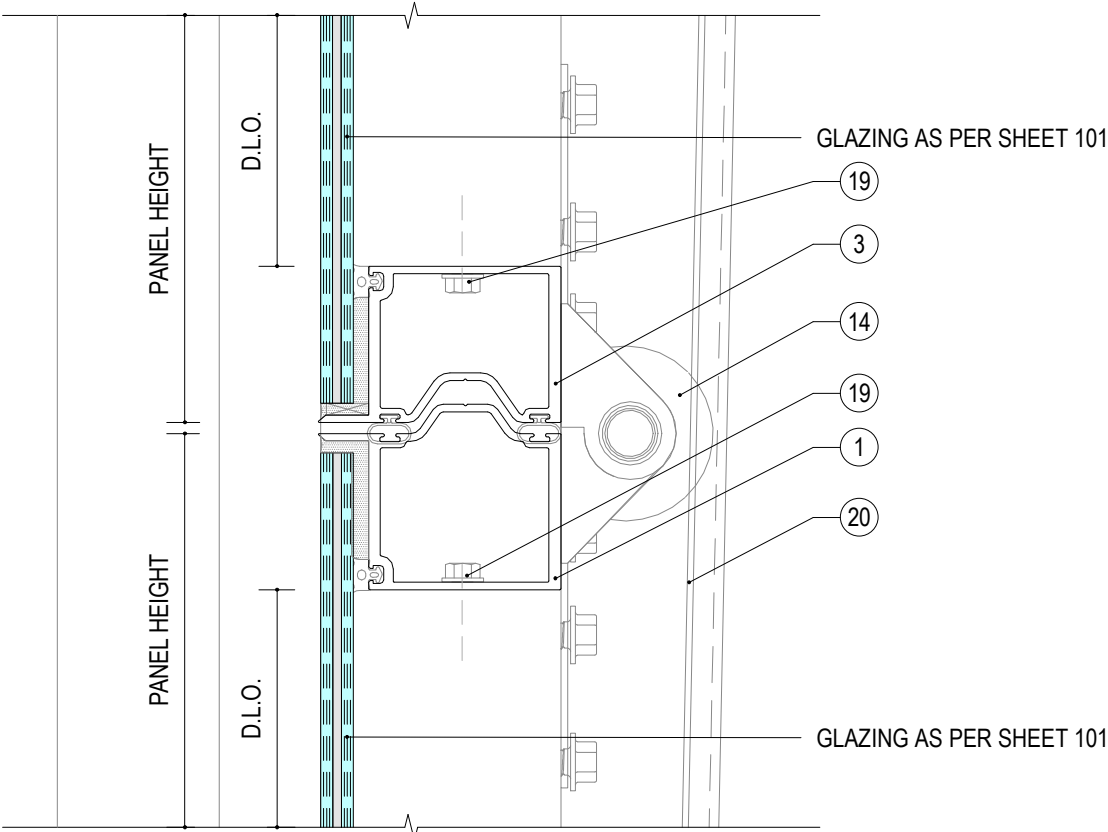
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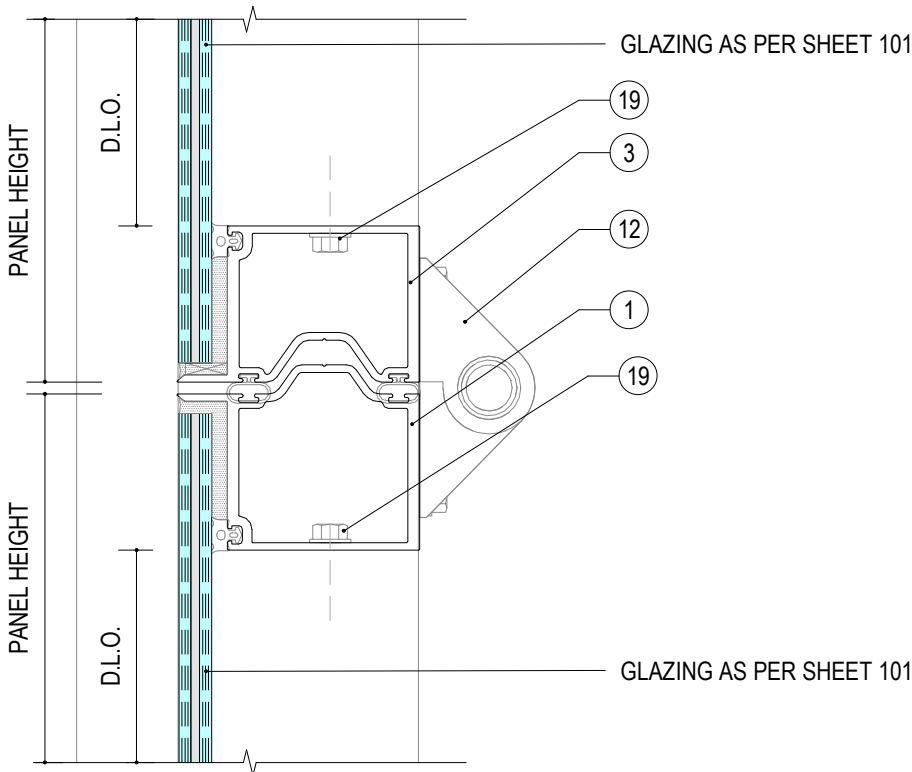
1 DOOR BOTTOM DETAIL TYPE 1
106 NOT TO SCALE



2 DOOR BOTTOM DETAIL TYPE 2
106 NOT TO SCALE



3 DOOR INTERM. VERT. DETAIL
106 NOT TO SCALE



4 DOOR INTERM. VERT. DETAIL (UP TO 122" DOOR)
106 NOT TO SCALE



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875 SERIES GARAGE DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)

ECO WINDOW SYSTEMS, LLC
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TEL: (305) 885-5299 / FAX: (305) 885-5902

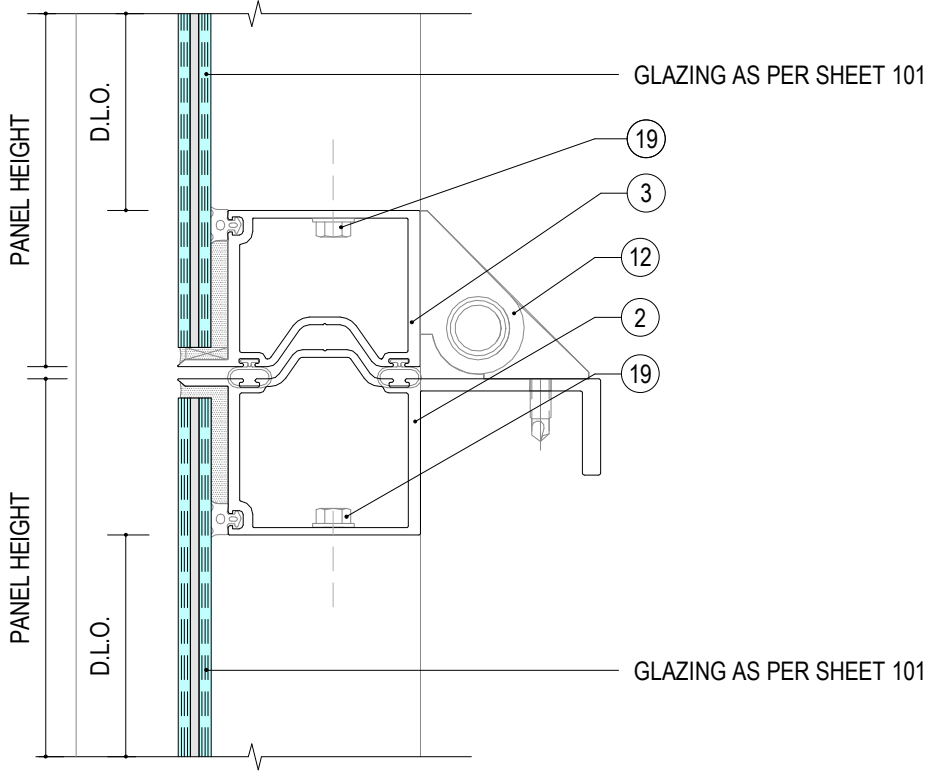


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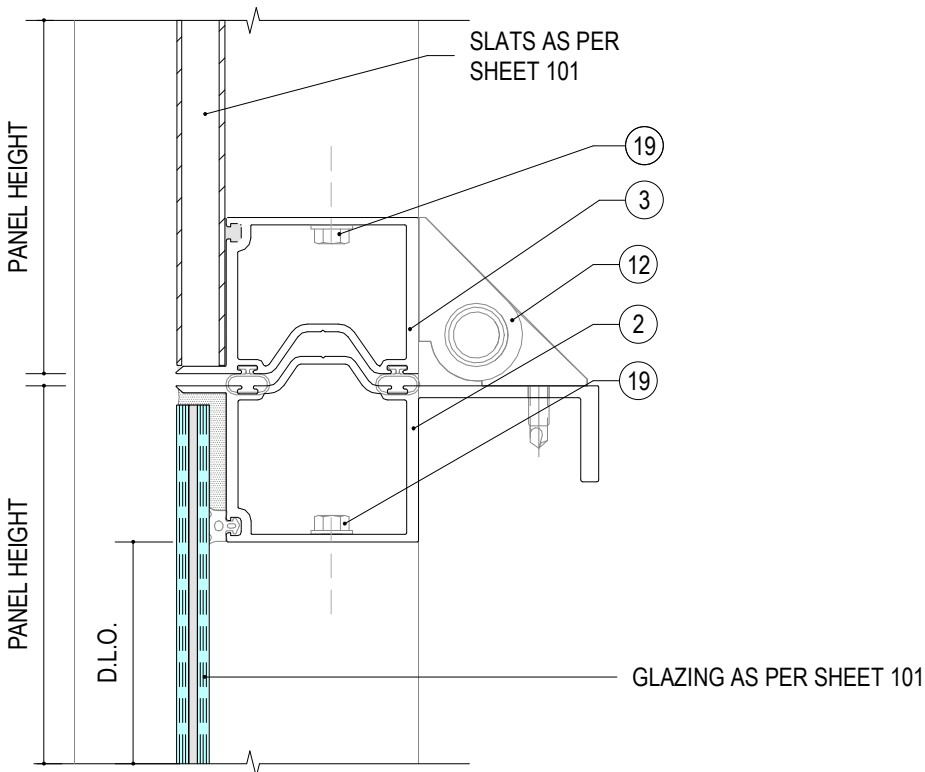


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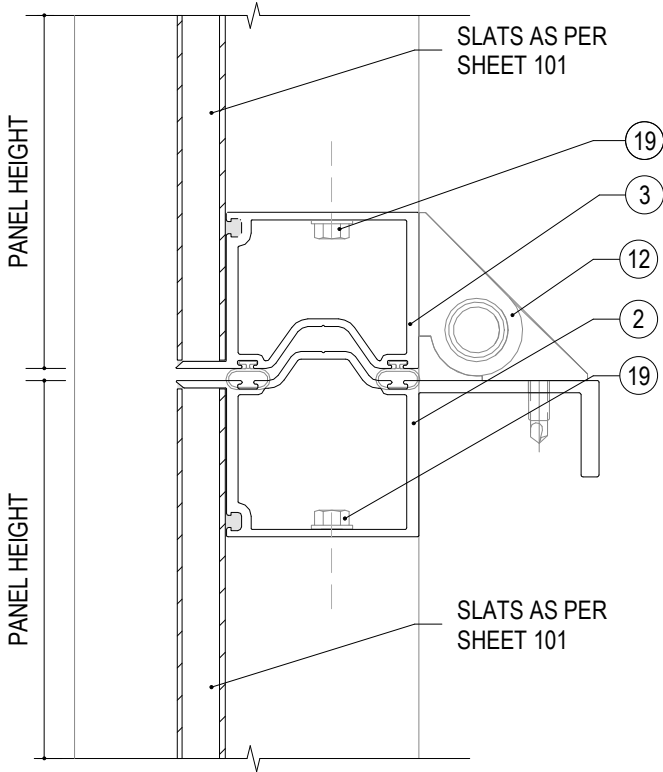
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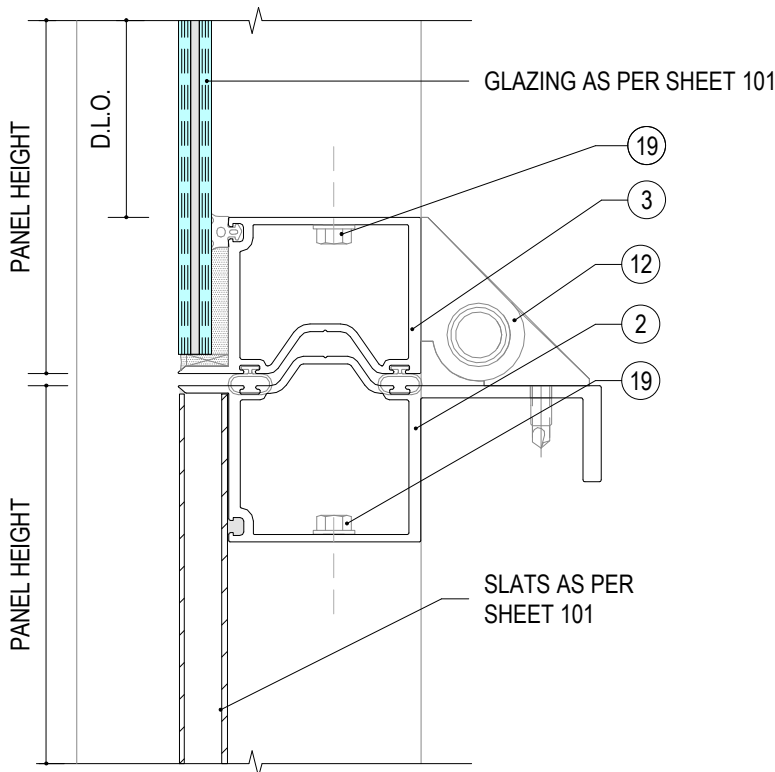
1 DOOR INTERM. VERT. DETAIL (UP TO 218" DOOR) TYPE 1
107 NOT TO SCALE



2 DOOR INTERM. VERT. DETAIL (UP TO 218" DOOR) TYPE 2
107 NOT TO SCALE



3 DOOR INTERM. VERT. DETAIL (UP TO 218" DOOR) TYPE 3
107 NOT TO SCALE



4 DOOR INTERM. VERT. DETAIL (UP TO 218" DOOR) TYPE 4
107 NOT TO SCALE

drawing no.	JA-1169-26	drawn by:	MA
date:	04-13-26	check by:	SR
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No.	DATE	BY	DESCRIPTION

875 SERIES GARAGE DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



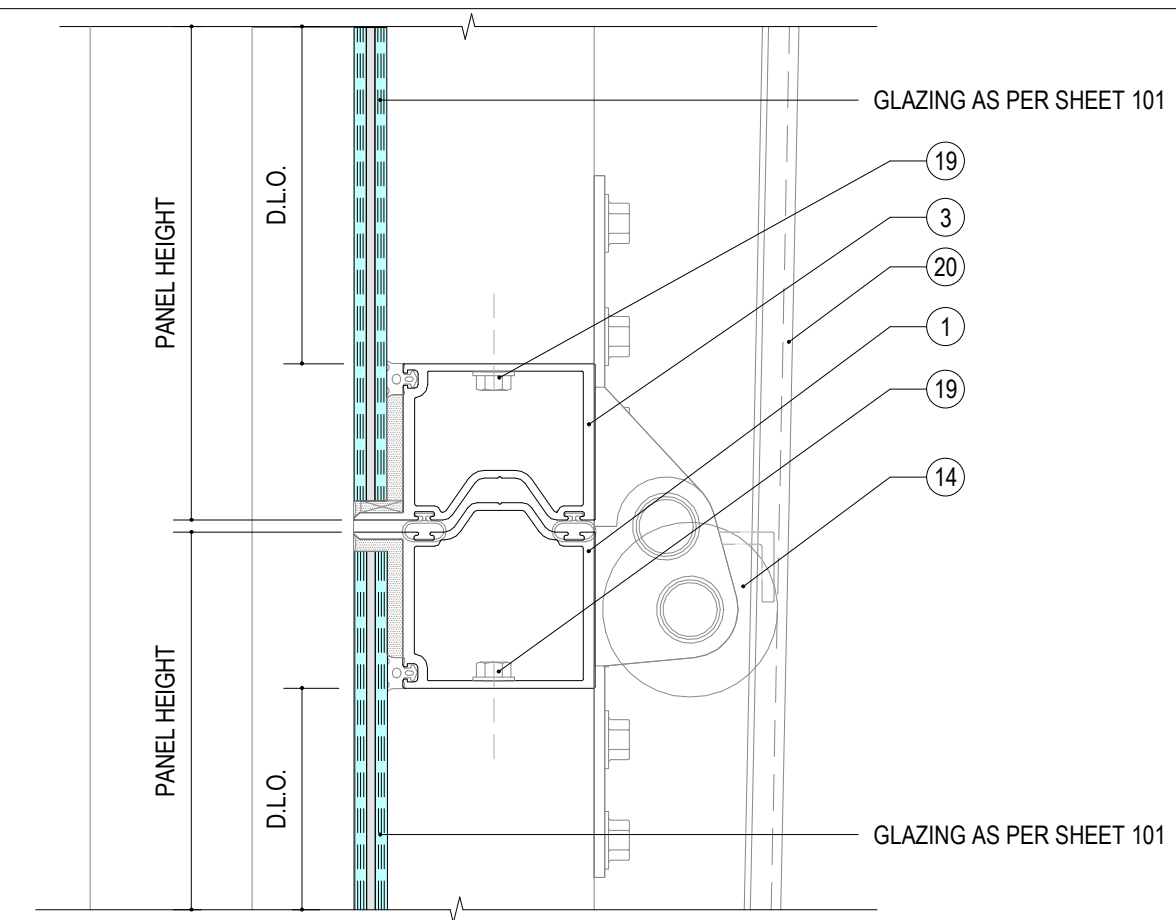
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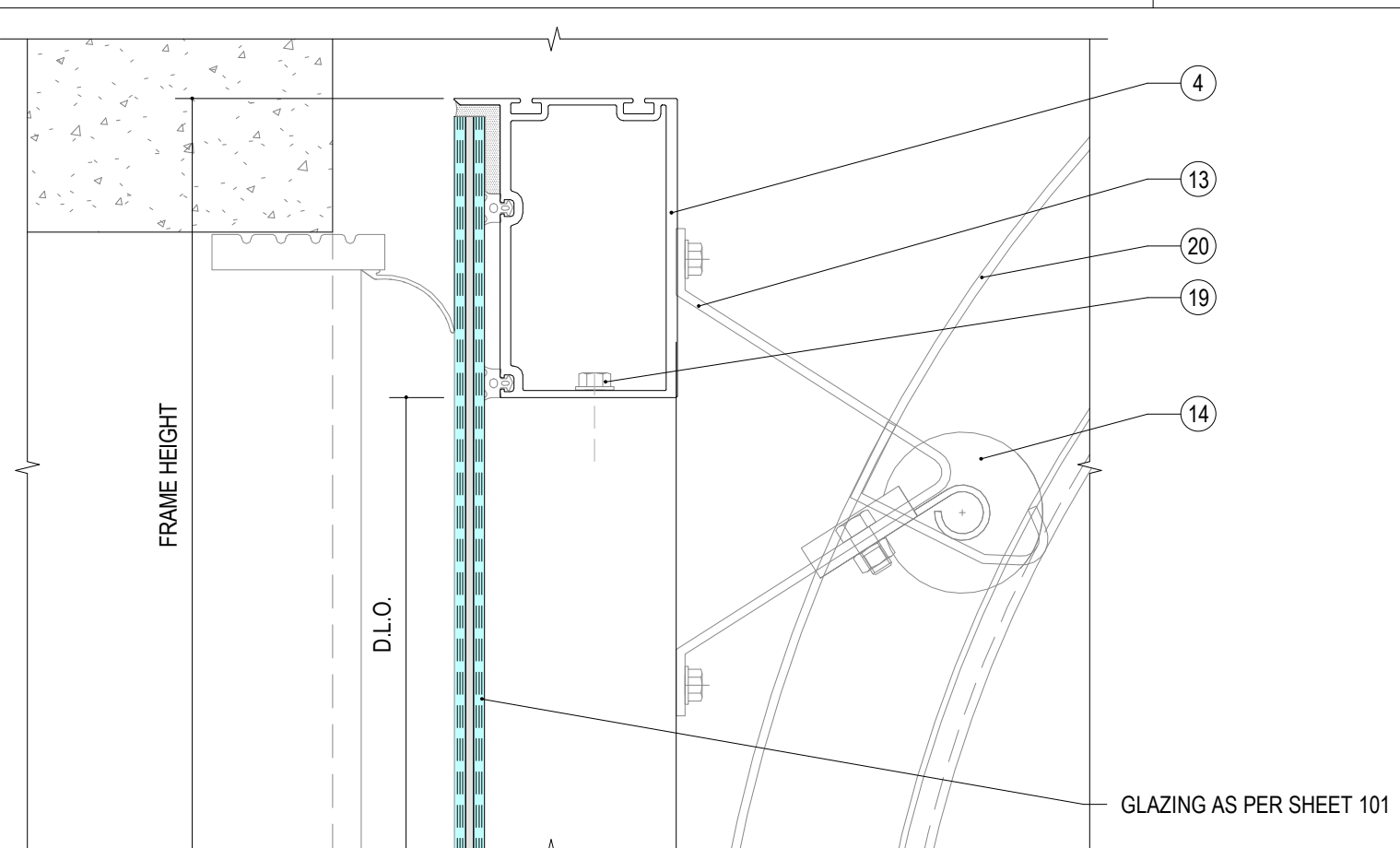
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SECTIONAL DETAILS

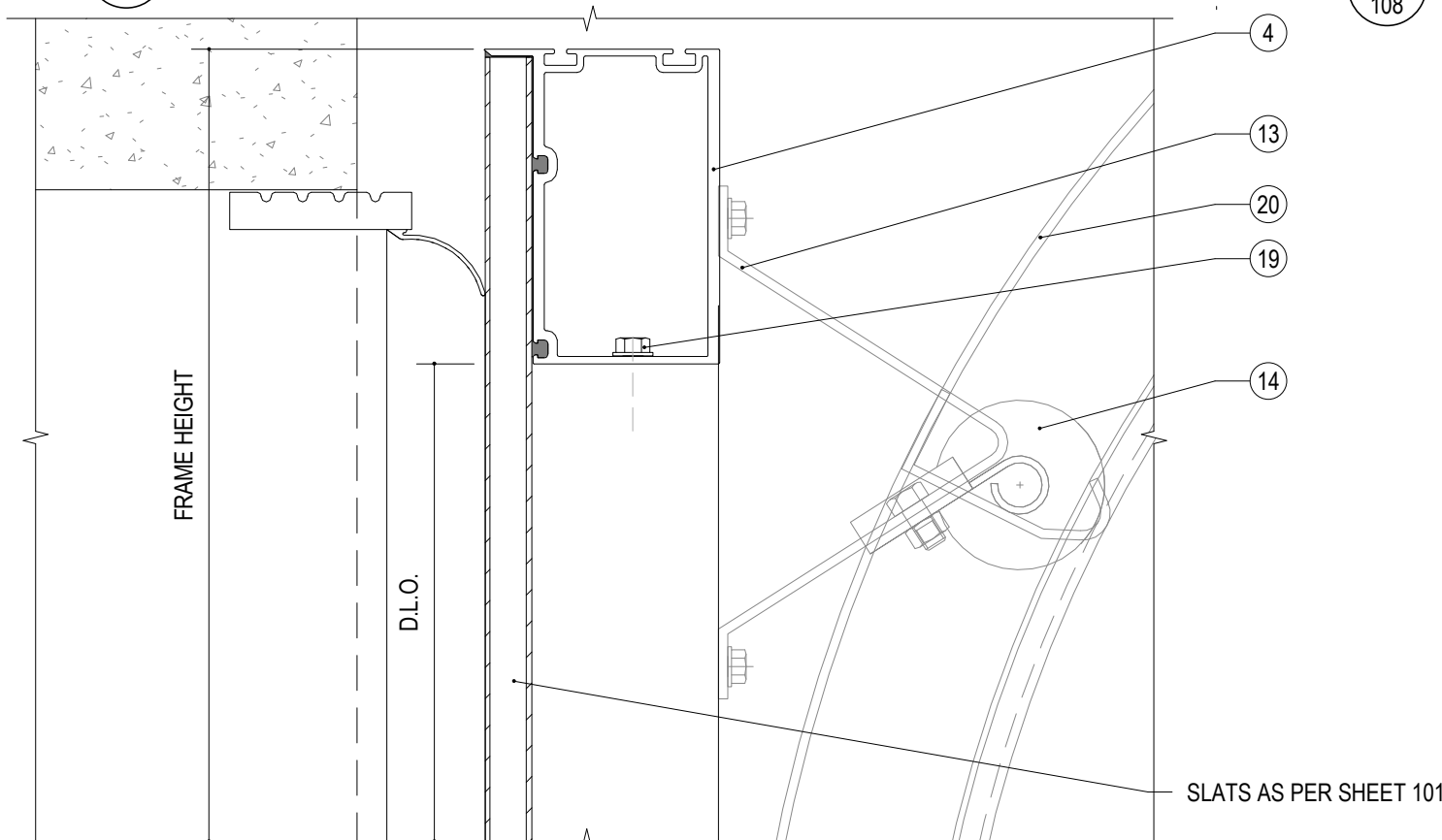
FL# 47490.2



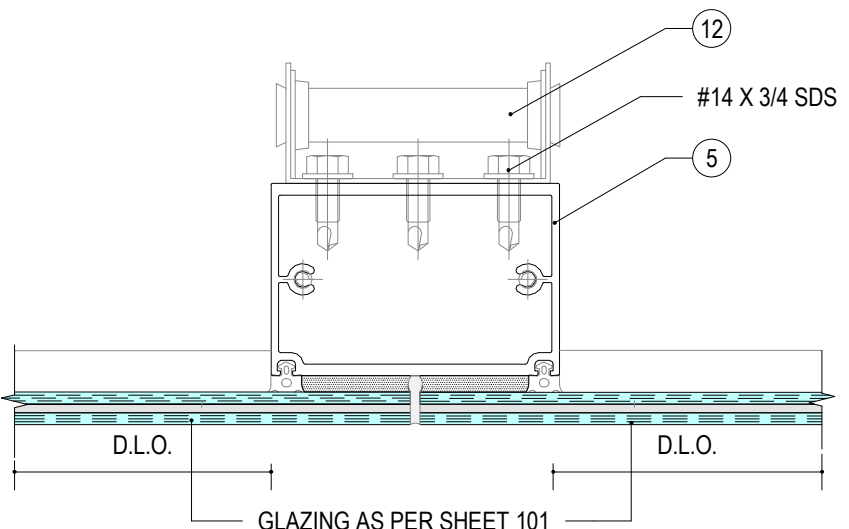
1
108
DOOR INTERM. HORIZ. DETAIL (#2 HINGE)
NOT TO SCALE



2
108
DOOR HEAD DETAIL TYPE 1
NOT TO SCALE



3
108
DOOR HEAD DETAIL TYPE 2
NOT TO SCALE



4
108
DOOR INTERM. HORIZ. DETAIL
NOT TO SCALE



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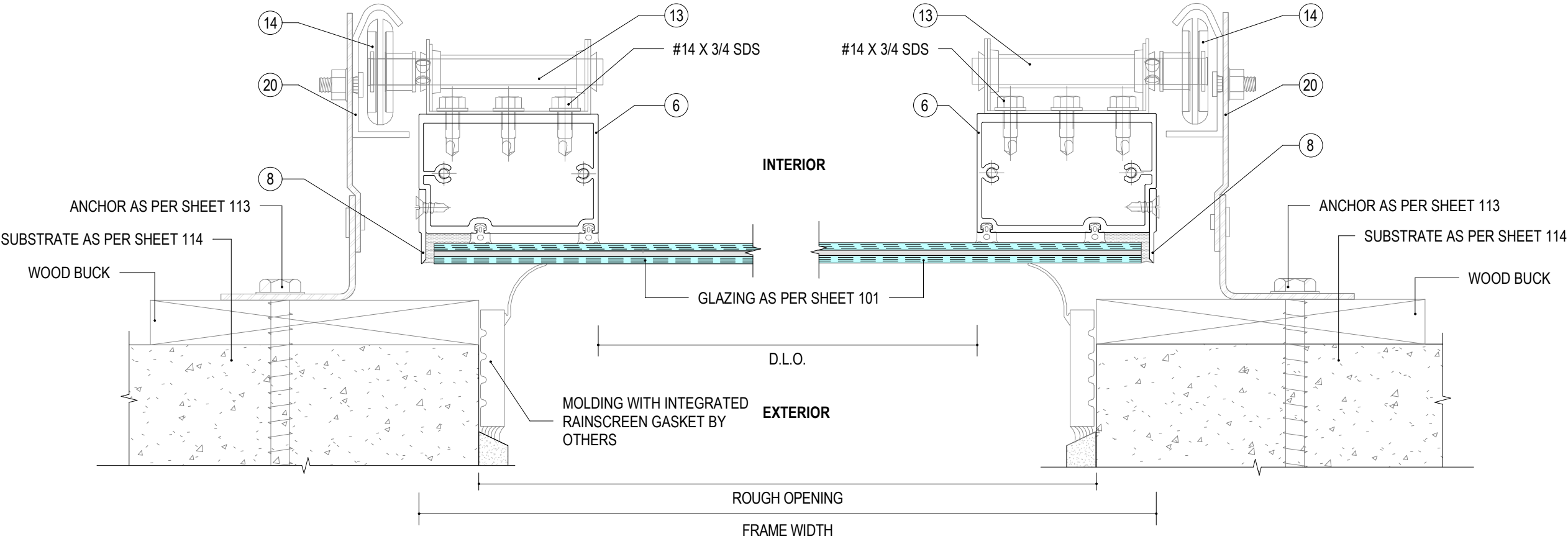
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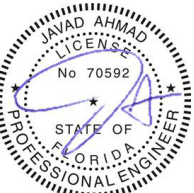
1 DOOR JAMB DETAIL (UP TO 122")
109 NOT TO SCALE

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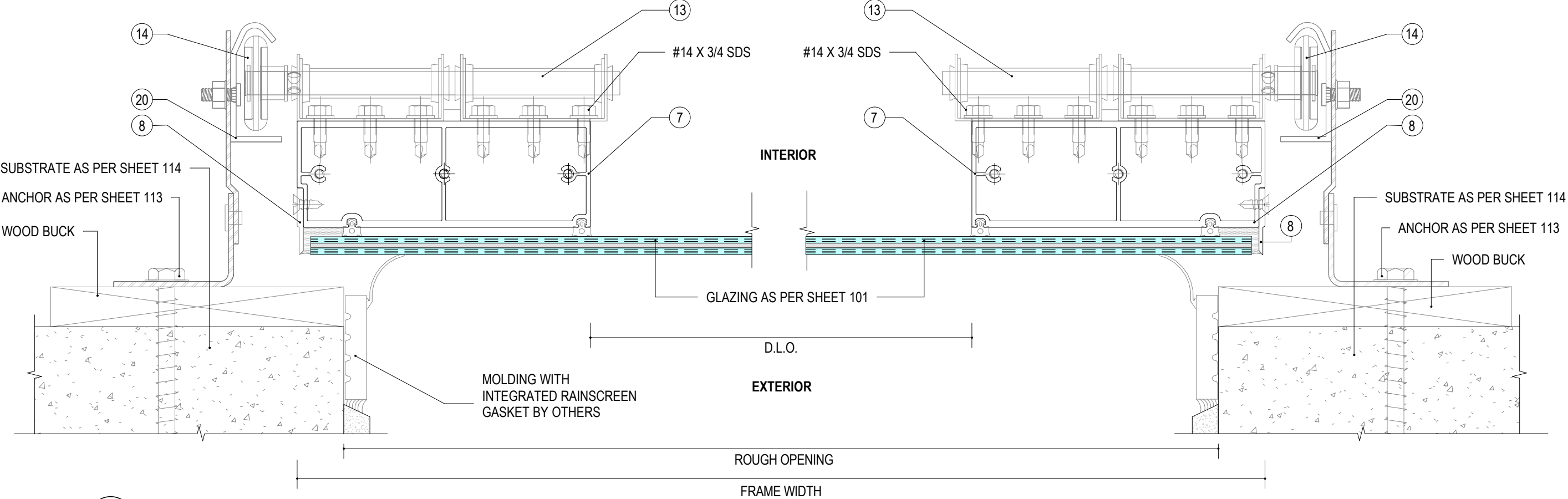
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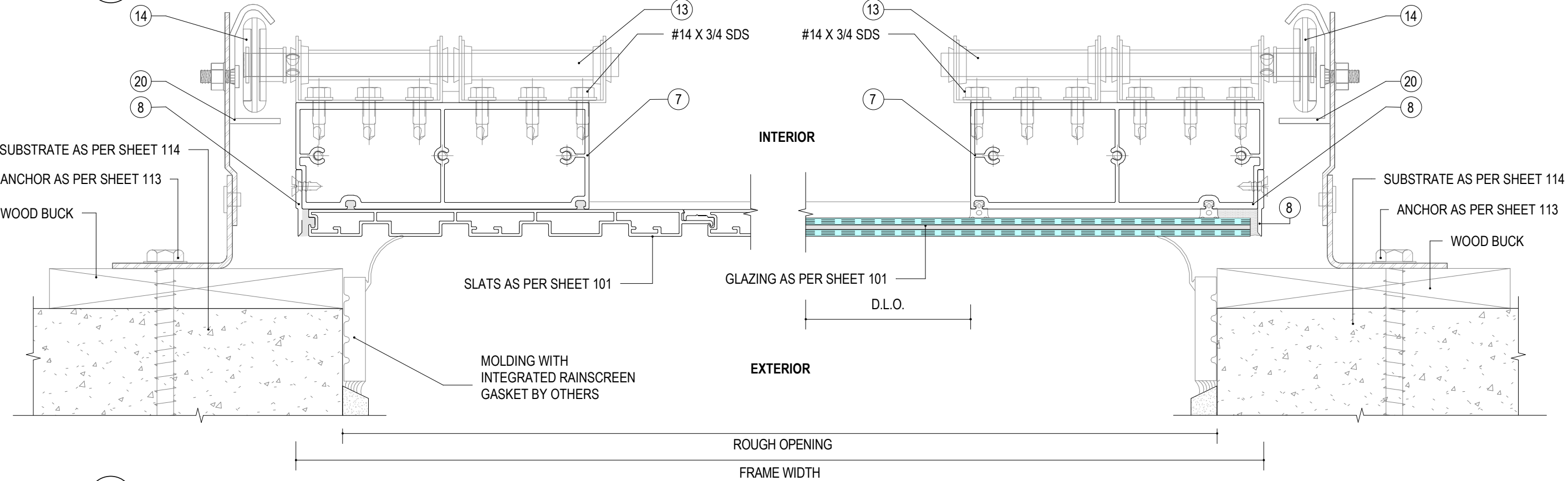
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SECTIONAL DETAILS

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1 DOOR JAMB DETAIL (UP TO 218") TYPE 1
110 NOT TO SCALE



2 DOOR JAMB DETAIL (UP TO 218") TYPE 2
110 NOT TO SCALE



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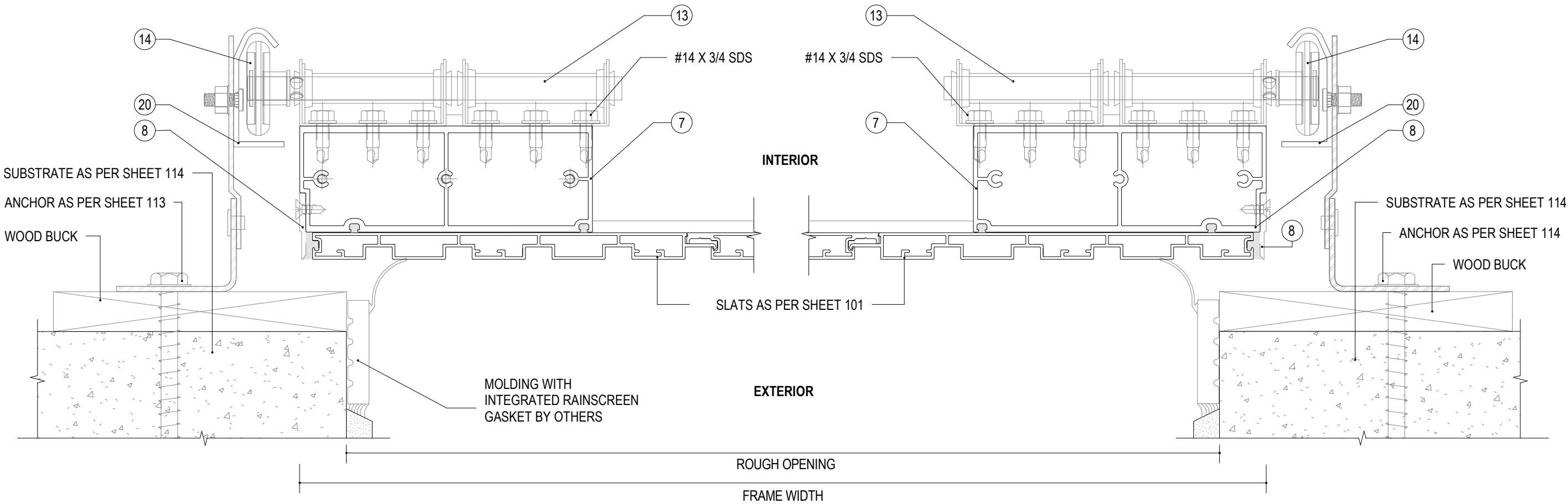
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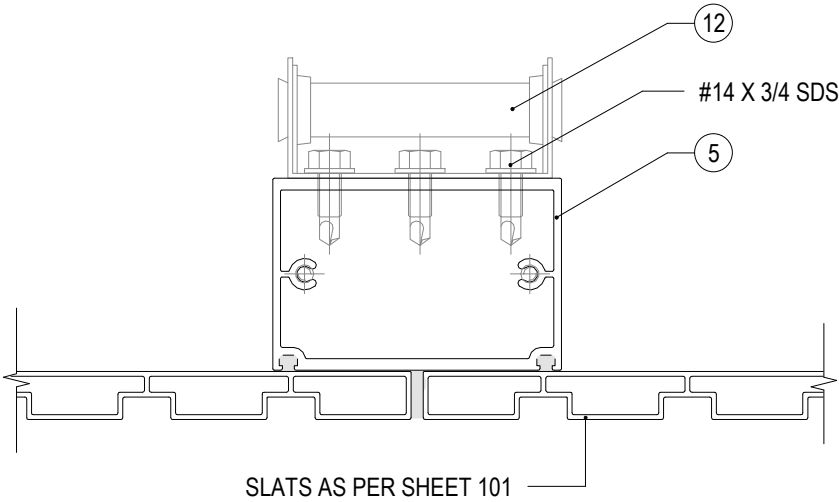


SECTIONAL DETAILS

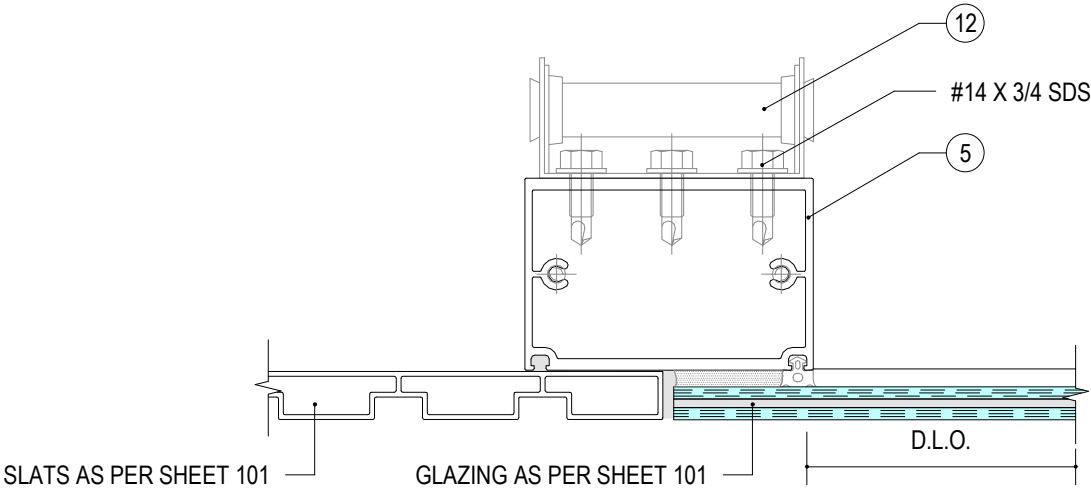
FL# 47490.2



1 DOOR JAMB DETAIL (UP TO 218") TYPE 3
111 NOT TO SCALE



2 DOOR INTERM. HORIZ. DETAIL (UP TO 218" DOOR) TYPE 1
111 NOT TO SCALE



3 DOOR INTERM. HORIZ. DETAIL (UP TO 218" DOOR) TYPE 2
111 NOT TO SCALE



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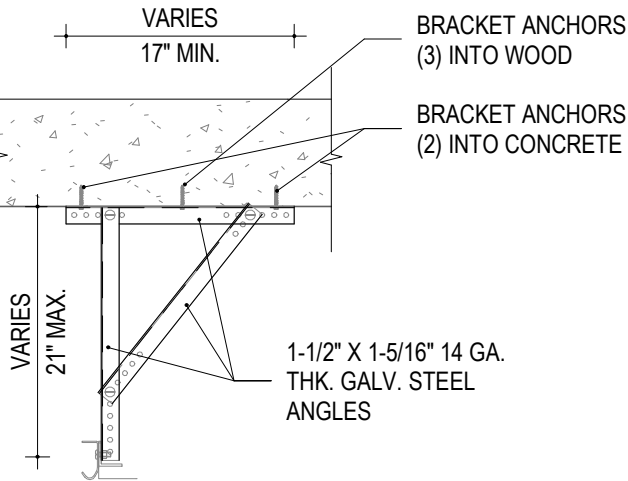
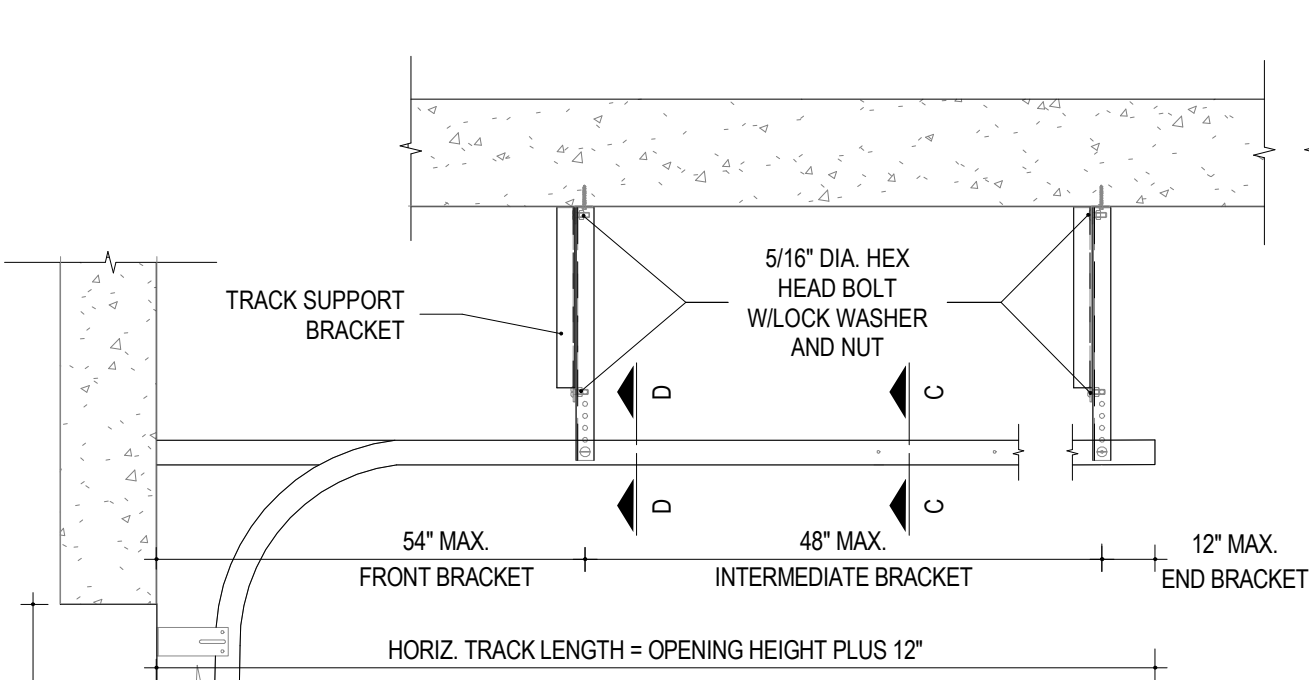
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BRACKET LAYOUT

FL# 47490.2

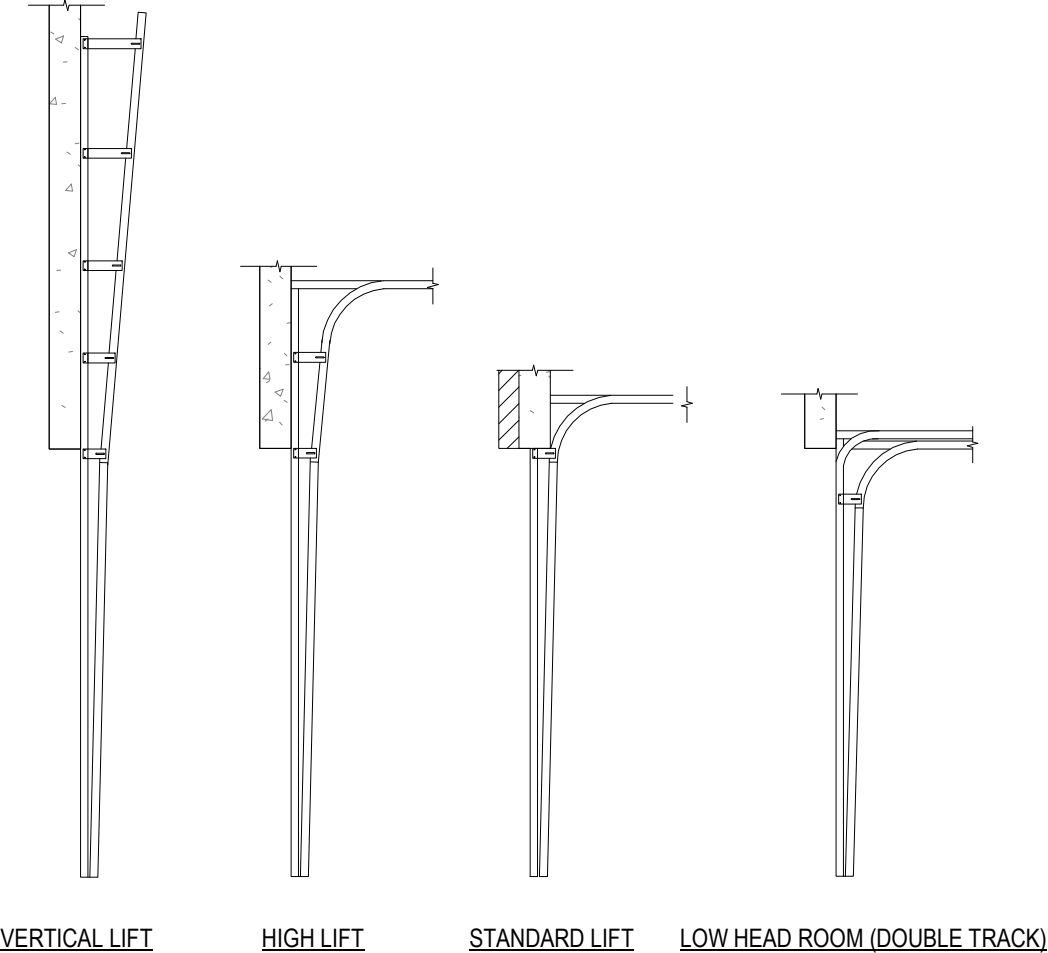
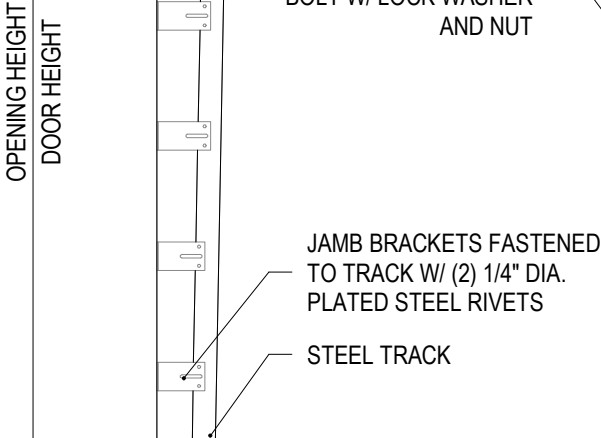
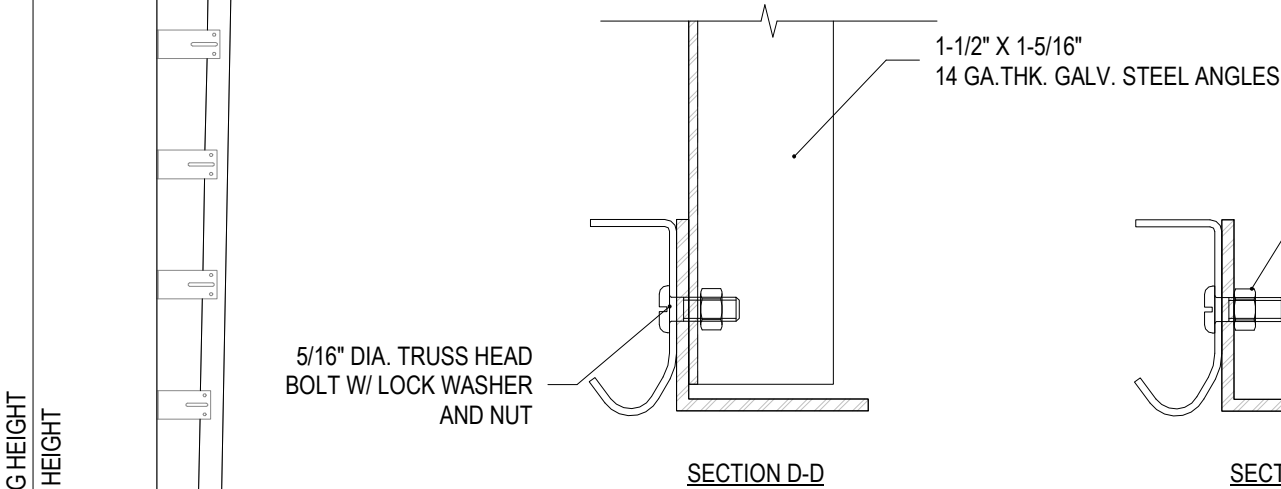


BRACKET ANCHORS:
(3) 5/16" DIA. LAG SCREWS INTO WOOD STRUCTURES, (S.G.=0.50) 1-1/2" MIN. PENETRATION
(2) 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO CONCRETE, 3000 PSI MIN. 1-3/4" MIN. EMBED

ANCHORING TO CEILING OTHER THAN WOOD OR CONCRETE TO BE REVIEWED SEPARATELY.

SUPPORT BRACKET AT EACH TRACK:
BRACKETS RUN PERPENDICULAR TO TRACKS FRONT AND END BRACKETS TO BE SPACED AS SHOWN ABOVE. ADDITIONAL INTERMEDIATE BRACKETS TO BE INSTALLED FOR SPACING MORE THAN 48" IN BETWEEN FRONT AND END BRACKET. (MINIMUM OF 2 BRACKETS PER TRACK)

NOTE:
IT SHALL BE VERIFIED THAT THE CEILING STRUCTURE CAN SUSTAIN LOAD IMPOSED BY DOOR WHEN LEFT IN OPEN POSITION. BRACKETS MAY BE MOVED IN THE ORDER TO ENGAGE THE CEILING STRUCTURE. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ALL CEILING NON STRUCTURAL MATERIAL STUCCO OR CEILING DRESSING.



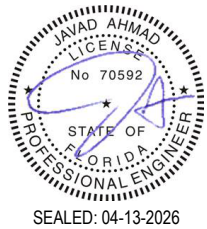
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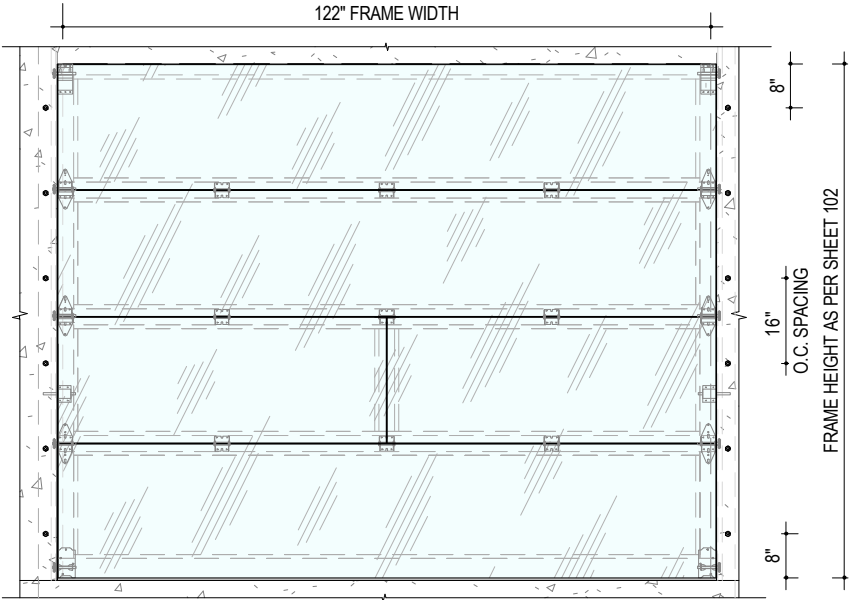
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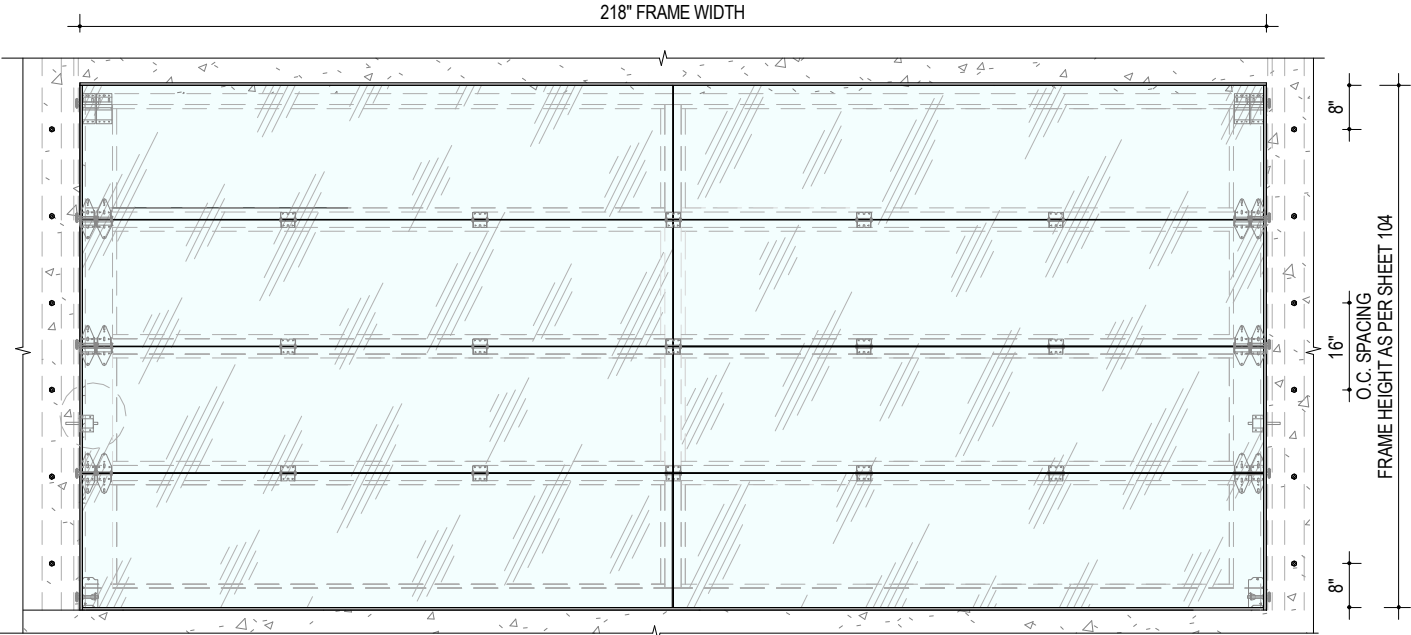
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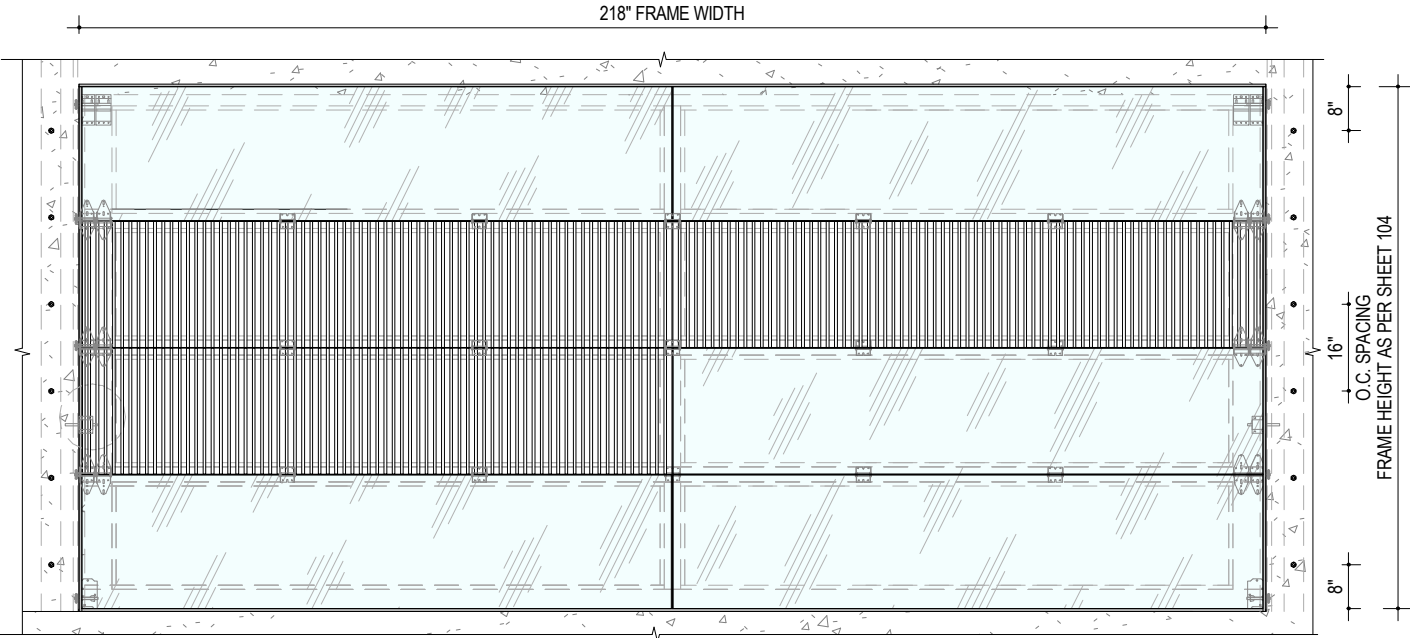
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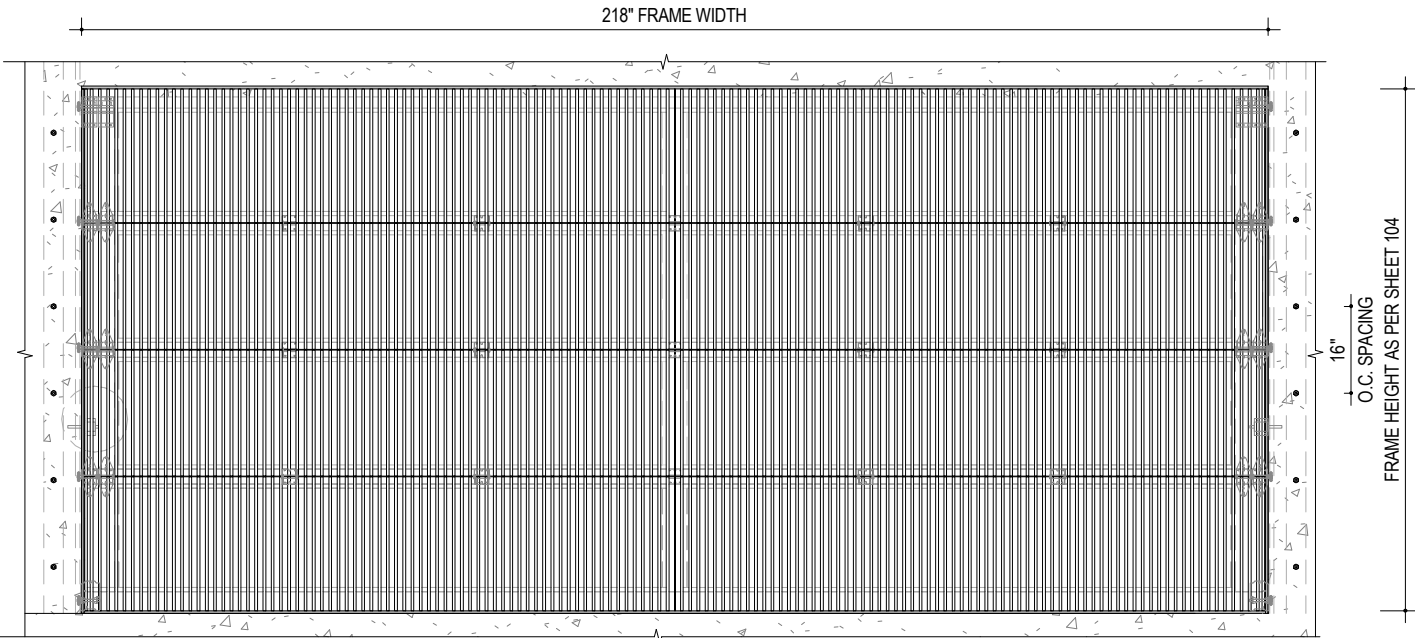
1 122" DOOR ANCHORAGE LAYOUT
NOT TO SCALE



2 218" DOOR ANCHORAGE LAYOUT TYPE 1
NOT TO SCALE



3 218" DOOR ANCHORAGE LAYOUT TYPE 2
NOT TO SCALE



4 218" DOOR ANCHORAGE LAYOUT TYPE 3
NOT TO SCALE

NOTE:
REFER SHEET 114 FOR ANCHOR TYPE



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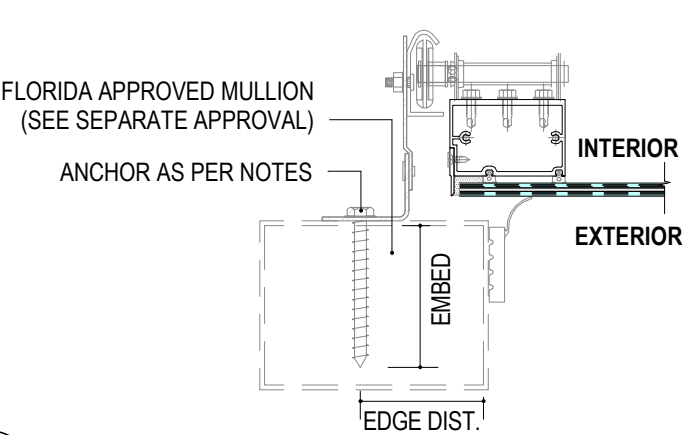
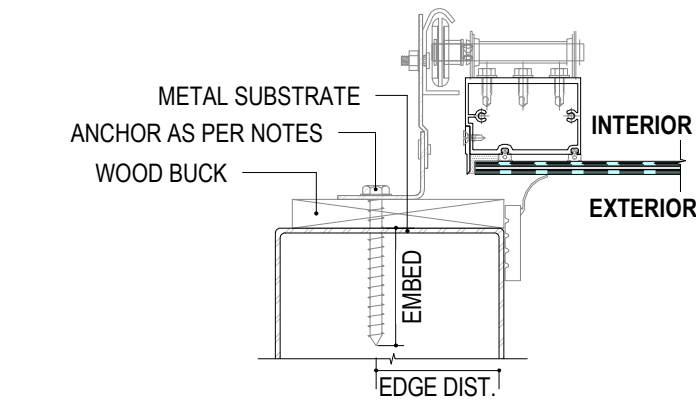
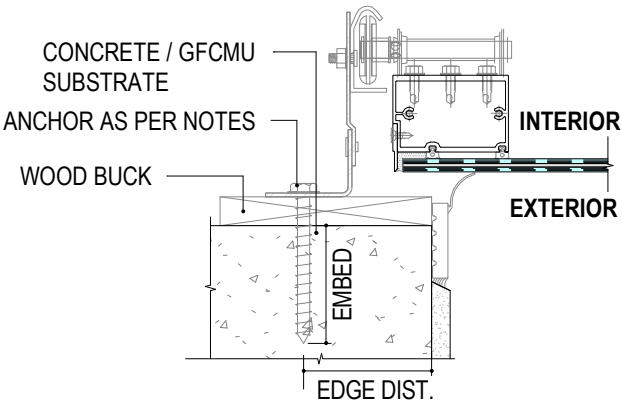
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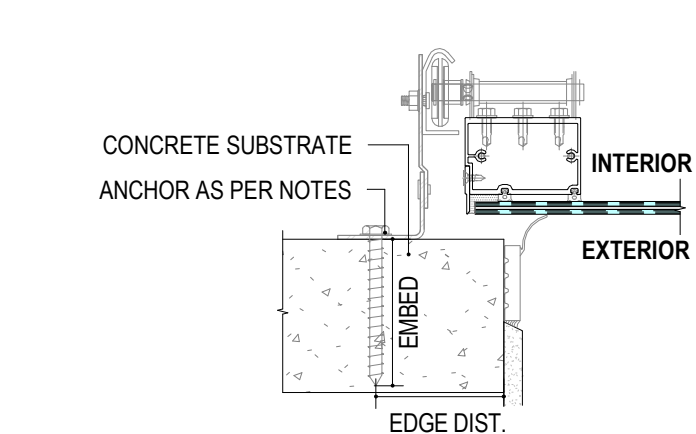
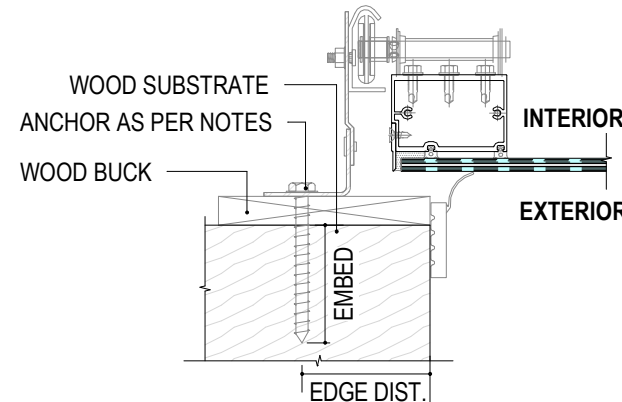
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1
114
ANCHORAGE IN CONCRETE / GFCMU
NOT TO SCALE

2
114
ANCHORAGE IN METAL STRUCTURE
NOT TO SCALE

3
114
ANCHORAGE IN ALUMINUM MULLION
NOT TO SCALE



4
114
ANCHORAGE IN WOOD STRUCTURE
NOT TO SCALE

5
114
ANCHORAGE IN CONCRETE WITHOUT WOOD BUCK
NOT TO SCALE

TYPICAL ANCHOR TYPES:

TYPE A -1/4" DEWALT ULTRACON+ (Fu = 164,000 PSI, Fy = 148,000 PSI)

- DIRECTLY INTO CONCRETE WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AT HEAD,SILL AND JAMBS
- DIRECTLY INTO HOLLOW MASONRY WITH 1-1/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AT JAMBS
- DIRECTLY INTO GROUT FILLED MASONRY WITH 2-1/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AT JAMBS

TYPE B - #12-24 SS SCREWS (GRADE 5 MIN)

- INTO 1/8" MIN. THK. ALUMINUM / STEEL WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AT HEAD, SILL AND JAMBS
- INTO MIN. 1/8" THK. APPROVED MULLIONS WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AT HEAD, SILL AND JAMBS

TYPE C - #14X3" WOOD SCREWS

- INTO 2-BY WOOD WITH 1-1/2" MIN PENETRATION, AND 1-3/4" MIN EDGE DISTANCE AT HEAD, SILL AND JAMBS

ANCHOR / SUBSTRATE NOTES:

- WOOD AT HEAD OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
- CONCRETE AT HEAD OR JAMBS f_c= 3000 PSI
- C-90 HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f_m= 2000 PSI
- STEEL (1/8" THK., A36 MIN) AT HEAD OR JAMBS
- ALUMINUM (1/8" THK., 6063-T6 MIN) AT HEAD OR JAMBS
- STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED

NOTE:

- THE WOOD BUCKS, CONCRETE AND METAL STRUCTURE SHOWN ON THIS SHEET SHALL BE DESIGNED BY OTHERS AND ARE NOT PART OF THIS APPROVAL. THEY MUST BE CAPABLE OF WITHSTANDING THE LOADS IMPOSED BY THE GLAZING SYSTEM AND TRANSFERRING THEM TO THE BUILDING STRUCTURE.
- ALL TYPES OF ANCHOR HEADS ARE APPROVED FOR USE.



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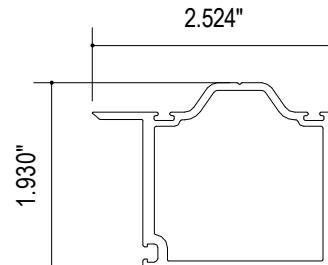
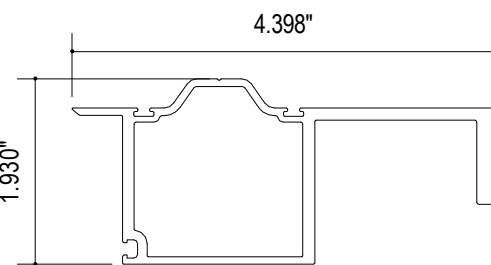
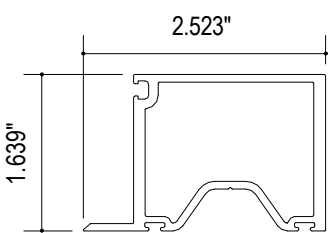
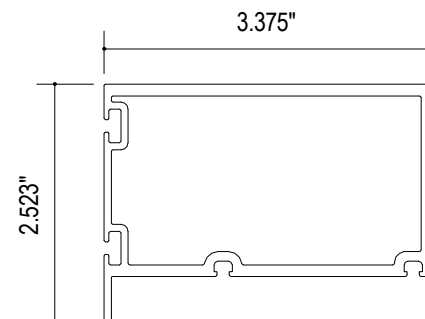
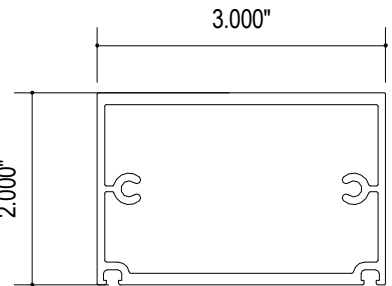
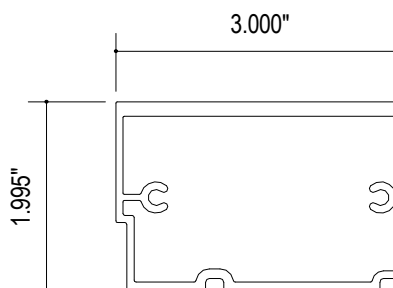
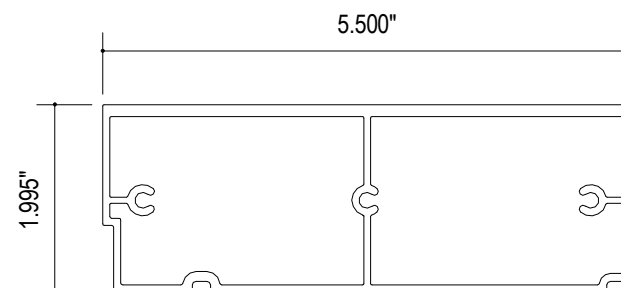
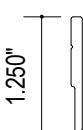
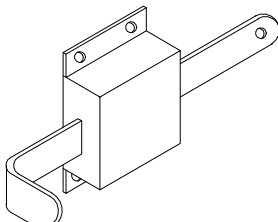
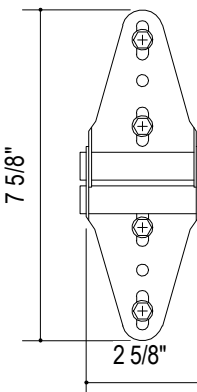
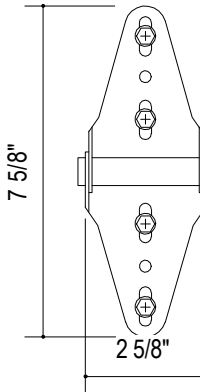
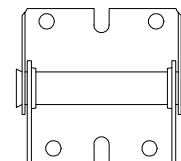
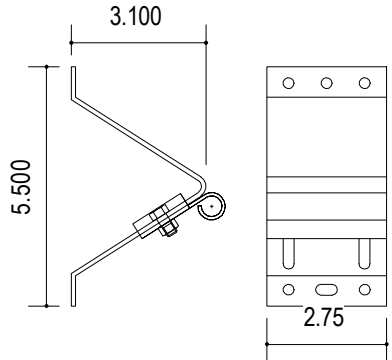
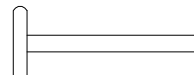
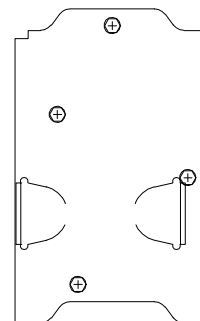
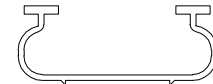
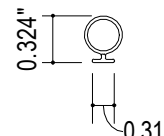
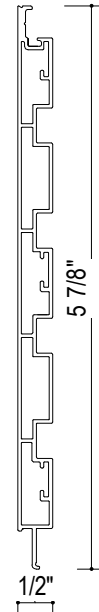
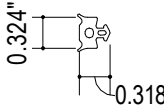
875 SERIES GARAGE DOOR SYSTEM
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SEALED: 04-13-2026

PARTS LIST										FL# 47490.2																	
MALE HORIZONTAL		①		REINF. MALE HORIZONTAL		②		FEMALE HORIZONTAL		③		TOP/ BOT HORIZONTAL		④		INTERMEDIATE VERTICAL		⑤									
																											
ALLOY 6063-T6		E881		ALLOY 6063-T6		E881R		ALLOY 6063-T6		E882		ALLOY 6063-T6		E883		ALLOY 6063-T6		E884									
SINGLE HINGE VER. STILE		⑥		DOUBLE HINGE VER. STILE		⑦		VERTICAL TRIM		⑧		STANDARD LOCK		⑨		ROLLER HINGE CENTER		⑩		ROLLER HINGE		⑪					
																											
ALLOY 6063-T6		E885		ALLOY 6063-T6		E886		ALLOY 6063-T6		E887		GALV STEEL		A-651		GALV STEEL		A-652		GALV STEEL		A-653					
HALF HINGE		⑫		TOP FIXTURE		⑬		3" DIA. ROLLER		⑭		BOTTOM FIXTURE		⑮		BOTTOM WEATHERSEAL		⑯		BILB GASKET		⑰		SLATS		⑱	
																											
GALV STEEL		A-654		STAINLESS STEEL		A-655		STEEL		A-656		STEEL		A-657		RUBBER		G-601		RUBBER		G-651		ALLOY 6063-T6		E-888	
																				SPACER GASKET		⑱					
																											

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Ph: (305) 424-8001
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ECO WINDOW SYSTEMS, LLC
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 865-5296 FAX. (305) 865-5902

JAVAD AHMAD

LICENSE

No 70592

STATE OF FLORIDA

PROFESSIONAL ENGINEER

SEALED: 04-13-2026

115

115 OF 117

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS



JAVAD AHMAD PE, inc

7320 NW 58th St,
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drawing no.	JA-1169-26	drawn by:	MA
date:	04-13-26	check by:	SR
REVISION			
No.	DATE	BY	DESCRIPTION

875 SERIES GARAGE DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



ECO window systems
ECO WINDOW SYSTEMS, LLC
8802 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902



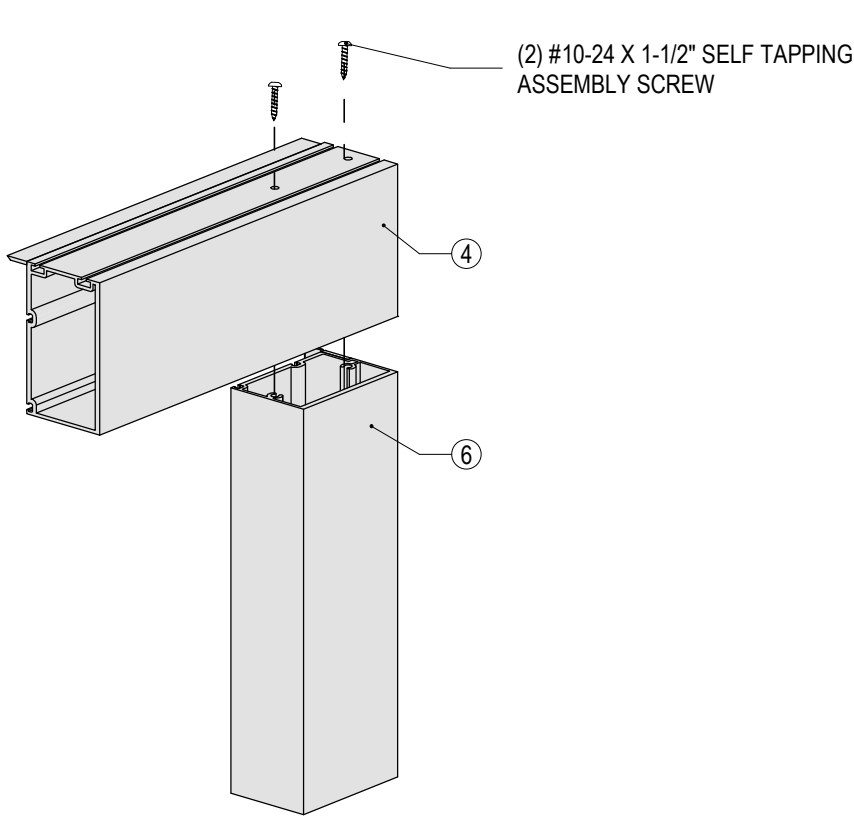
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BILL OF MATERIAL										FL# 47490.2																																																																																																																				
<table><tr><th colspan="5">BILL OF MATERIALS</th></tr><tr><th>ITEM #</th><th>REQUIREMENT</th><th>PART #</th><th>DESCRIPTION</th><th>MATERIAL</th></tr><tr><td>1</td><td>AS REQD.</td><td>E881</td><td>MALE HORIZONTAL</td><td>ALLOY 6063-T6</td></tr><tr><td>2</td><td>AS REQD.</td><td>E881R</td><td>REINF. MALE HORIZONTAL</td><td>ALLOY 6063-T6</td></tr><tr><td>3</td><td>AS REQD.</td><td>E882</td><td>FEMALE HORIZONTAL</td><td>ALLOY 6063-T6</td></tr><tr><td>4</td><td>AS REQD.</td><td>E883</td><td>TOP/ BOT HORIZONTAL</td><td>ALLOY 6063-T6</td></tr><tr><td>5</td><td>AS REQD.</td><td>E884</td><td>INTERMEDIATE VERTICAL</td><td>ALLOY 6063-T6</td></tr><tr><td>6</td><td>AS REQD.</td><td>E885</td><td>SINGLE HINGE VER. STILE</td><td>ALLOY 6063-T6</td></tr><tr><td>7</td><td>AS REQD.</td><td>E886</td><td>DOUBLE HINGE VER STILE</td><td>ALLOY 6063-T6</td></tr><tr><td>8</td><td>AS REQD.</td><td>E887</td><td>VERTICAL TRIM</td><td>ALLOY 6063-T6</td></tr><tr><td>9</td><td>AS REQD.</td><td>A-651</td><td>STANDARD LOCK</td><td>GALV STEEL</td></tr><tr><td>10</td><td>AS REQD.</td><td>A-652</td><td>ROLLER HINGE CENTER</td><td>GALV STEEL</td></tr><tr><td>11</td><td>AS REQD.</td><td>A-653</td><td>ROLLER HINGE</td><td>GALV STEEL</td></tr><tr><td>12</td><td>AS REQD.</td><td>A-654</td><td>HALF HINGE</td><td>GALV STEEL</td></tr><tr><td>13</td><td>AS REQD.</td><td>A-655</td><td>TOP FIXTURE</td><td>STAINLESS STEEL</td></tr><tr><td>14</td><td>AS REQD.</td><td>A-656</td><td>3" DIA. ROLLER</td><td>STEEL</td></tr><tr><td>15</td><td>AS REQD.</td><td>A-657</td><td>BOTTOM FIXTURE</td><td>STEEL</td></tr><tr><td>16</td><td>AS REQD.</td><td>G-601</td><td>BOTTOM WEATHERSEAL</td><td>RUBBER</td></tr><tr><td>17</td><td>AS REQD.</td><td>G-602</td><td>BULB GASKET</td><td>PTE & POLYPROPYLENE</td></tr><tr><td>18</td><td>AS REQD.</td><td>G-651</td><td>SPACER GASKET</td><td>RUBBER</td></tr><tr><td>19</td><td>AS REQD.</td><td>#10-24 X 1- 1/2" SELF TAPPING</td><td>ASSEMBLY SCREW</td><td>GALV. STEEL</td></tr><tr><td>20</td><td>AS REQD.</td><td>TRACK</td><td>2" DOOR GALV. TRACK</td><td>GALV. STEEL</td></tr><tr><td>21</td><td>AS REQD.</td><td>E-888</td><td>SLATS</td><td>ALLOY 6063-T6</td></tr></table>												BILL OF MATERIALS					ITEM #	REQUIREMENT	PART #	DESCRIPTION	MATERIAL	1	AS REQD.	E881	MALE HORIZONTAL	ALLOY 6063-T6	2	AS REQD.	E881R	REINF. MALE HORIZONTAL	ALLOY 6063-T6	3	AS REQD.	E882	FEMALE HORIZONTAL	ALLOY 6063-T6	4	AS REQD.	E883	TOP/ BOT HORIZONTAL	ALLOY 6063-T6	5	AS REQD.	E884	INTERMEDIATE VERTICAL	ALLOY 6063-T6	6	AS REQD.	E885	SINGLE HINGE VER. STILE	ALLOY 6063-T6	7	AS REQD.	E886	DOUBLE HINGE VER STILE	ALLOY 6063-T6	8	AS REQD.	E887	VERTICAL TRIM	ALLOY 6063-T6	9	AS REQD.	A-651	STANDARD LOCK	GALV STEEL	10	AS REQD.	A-652	ROLLER HINGE CENTER	GALV STEEL	11	AS REQD.	A-653	ROLLER HINGE	GALV STEEL	12	AS REQD.	A-654	HALF HINGE	GALV STEEL	13	AS REQD.	A-655	TOP FIXTURE	STAINLESS STEEL	14	AS REQD.	A-656	3" DIA. ROLLER	STEEL	15	AS REQD.	A-657	BOTTOM FIXTURE	STEEL	16	AS REQD.	G-601	BOTTOM WEATHERSEAL	RUBBER	17	AS REQD.	G-602	BULB GASKET	PTE & POLYPROPYLENE	18	AS REQD.	G-651	SPACER GASKET	RUBBER	19	AS REQD.	#10-24 X 1- 1/2" SELF TAPPING	ASSEMBLY SCREW	GALV. STEEL	20	AS REQD.	TRACK	2" DOOR GALV. TRACK	GALV. STEEL	21	AS REQD.	E-888	SLATS	ALLOY 6063-T6
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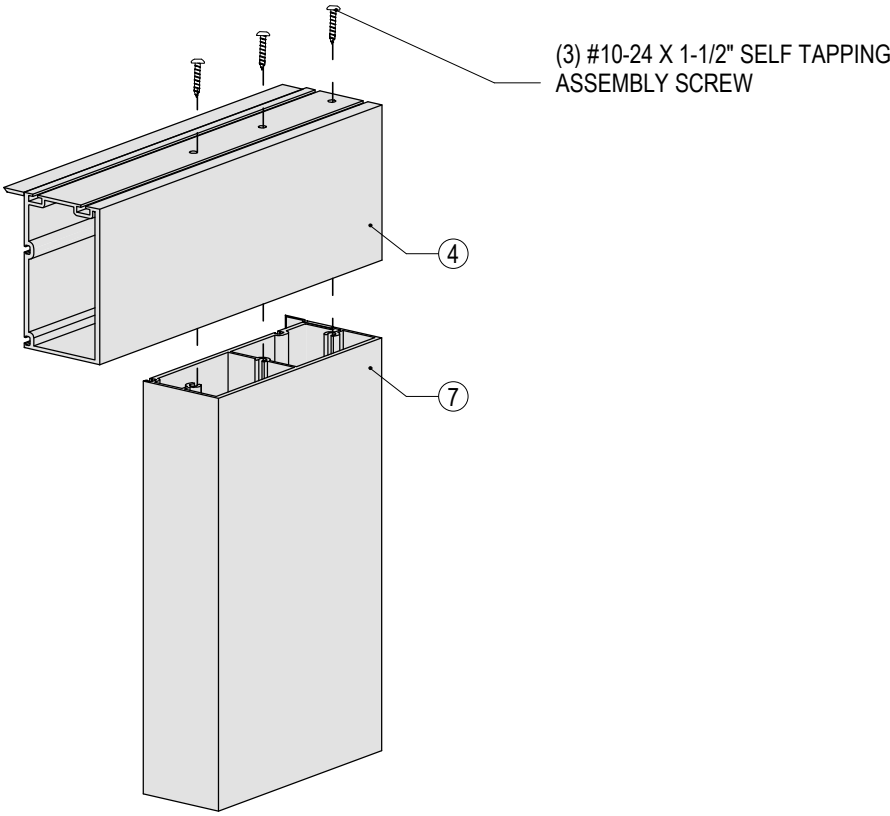


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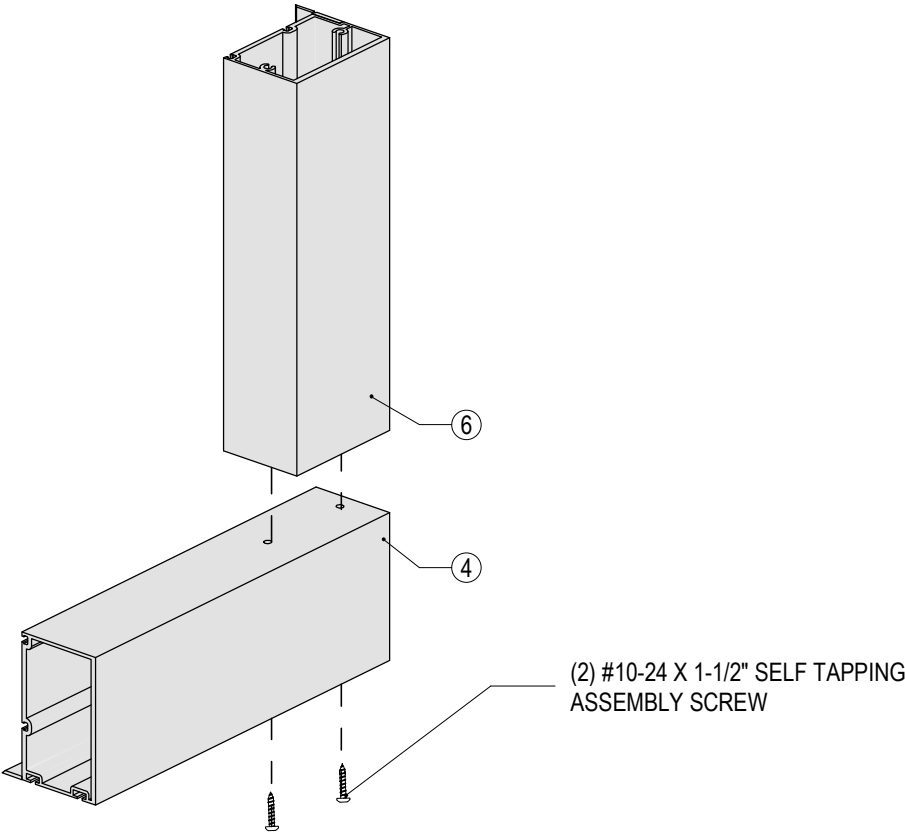
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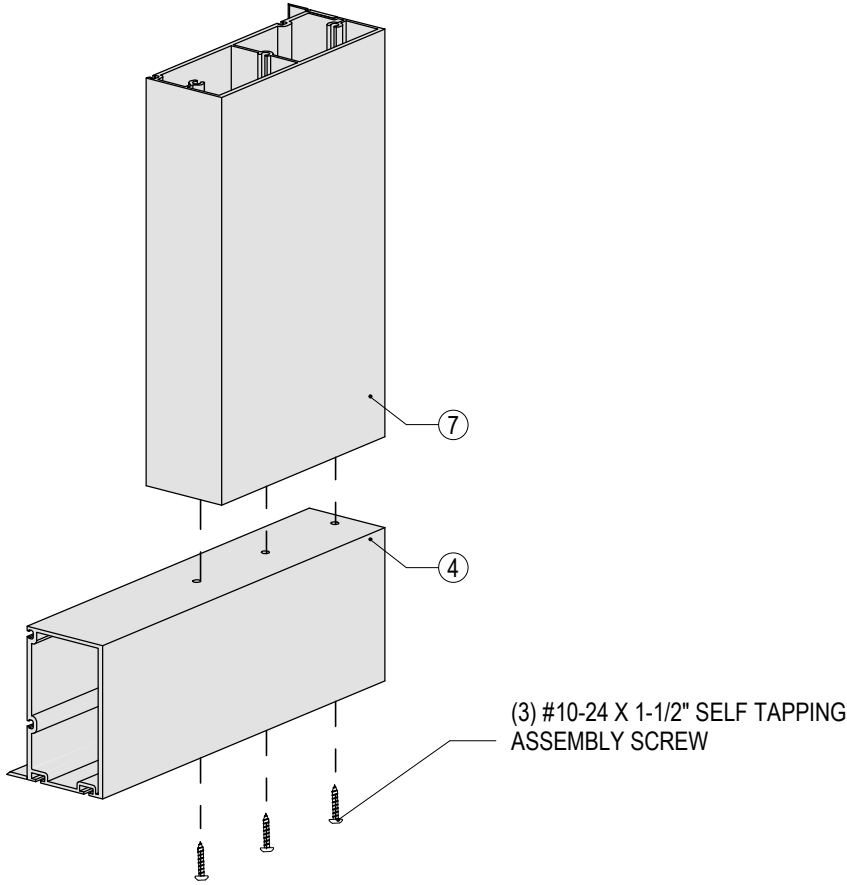
1
117 TOP CORNER FRAME ASSEMBLY (122" DOOR)



2
117 TOP CORNER FRAME ASSEMBLY (196" DOOR)



3
117 BOTTOM CORNER FRAME ASSEMBLY (122" DOOR)



4
117 BOTTOM CORNER FRAME ASSEMBLY (196" DOOR)

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