



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

► OFFICE OF THE
SECRETARY

FL #

FL22267-R12

Application Type

Revision

Code Version

2023

Application Status

Approved

Comments

Archived



Product Manufacturer

E.S. Windows, Inc.

Address/Phone/Email

10653 NE Quaybridge Ct.
Miami, FL 33138
(305) 624-7775
achamorro@eswllc.com

Authorized Signature

Yiping Wang
mcy@mcyengineering.com

Technical Representative

Samir Sabagh

Address/Phone/Email

3550 NW 49th St.
Miami, FL 33142
(305) 638-5151
ssabagh@energiasolarsa.com

Quality Assurance Representative

Address/Phone/Email

Category

Exterior Doors

Subcategory

Sliding 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

Yiping Wang

Florida License

PE-55983

Quality Assurance Entity

Keystone Certifications, Inc.

Quality Assurance Contract Expiration Date

07/16/2025

Validated By

Xiaojun Gu

☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL22267_R12_COI_Certificate of Independence FBC 2023.pdf](#)

Referenced Standard and Year (of Standard)

Standard

Year

AAMA 1304	2002
ASTM E1886	2019
ASTM E1996	2020
ASTM E283	2012
ASTM E331	2016
ASTM F842	2017
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 12/18/2023
Date Validated 12/28/2023
Date Pending FBC Approval 01/03/2024
Date Approved 02/13/2024

Summary of Products

FL #	Model, Number or Name	Description
22267.1	ES-SGD2020 SLIDING GLASS DOOR-LMI & SMI	sliding glass door-large and small missile impact.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +150/-150 Other: for sliding glass door sizes vs. design pressure refer to installation instructions		Installation Instructions FL22267_R12_II_ES-SGD2020_SLIDING GLASS DOOR LMI SMI FL22267 AD16-29 REV 12.21.2023 ss.pdf Verified By: Yiping Wang PE #55983 Created by Independent Third Party: Yes Evaluation Reports FL22267_R12_AE_SGD2020-EVR_FBC 2023_SS.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

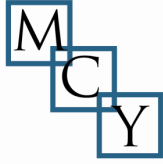
[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:





MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Parkway, Suite 301
Miramar, FL. 33027
Mobile: (305) 588-5224
Office: (305) 271-0117

PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> E.S. WINDOWS, Inc. 10653 NE Quaybridge Ct. Miami, FL 33138	<u>Product Name/Model & Description:</u> Series SGD 2020 SLIDING GLASS DOOR (L.M.I. & S.M.I.) (HVHZ) Sliding Glass Door – large & small missile impact
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Scope: This product has been evaluated by the below-signed Florida Professional Engineer for compliance with the Code noted herein and is, for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S. & chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable Code modifications or revisions.

Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20-3.005 (1)(d) – Evaluation Report from a licensed Professional Engineer

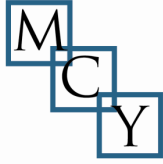
Product Description: Product Approval **Drawing #AD16-29**, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **Large and Small Missile Impact**
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Other load limitations applicable to the product, if any.
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.



December 27th, 2023



Test Reports:

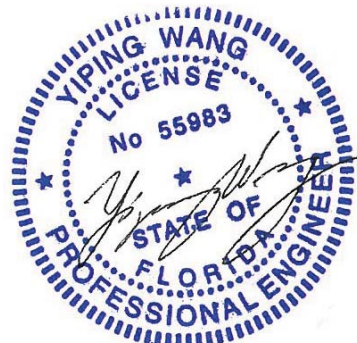
Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-18-002, signed and sealed by Constantin Bortes, P.E.</i>	05/17/2018	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) AAMA 1304 (forced entry test)
Fenestration Testing Laboratory FL33166	<i>FTL-12390 signed and sealed by Marlin Binson, PE</i>	12/17/2020	TAS 201 (large missile impact) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test) ASTM F842 (Force Entry)
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-16-010, signed and sealed by Constantin Bortes, P.E.</i>	03/23/2017	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) ASTM 1886(cyclic wind pressure loading) ASTM 1996 (large missile impact) AAMA 1303 (forced entry test)
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-23-003, signed and sealed by MICHAEL D CALDWELL, P.E.</i>	12/07/2023	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading)

Engineering Analysis:

 The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- No rational analysis has been performed.
- Anchor calculations are based on manufacturer's published anchor capacity, anchor Notice of Acceptance by Miami Dade County.



December 27th, 2023

ES WINDOWS, INC.
SERIES SGD 2020 SLIDING GLASS DOOR
LARGE AND SMALL MISSILE IMPACT

DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT.
IMPACT SHUTTERS ARE NOT REQUIRED.

LAMINATED GLASS AND INSULATED-LAMINATED GLASS LARGE
AND SMALL MISSILE IMPACT.

SERIES SGD 2020 SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.

METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.

STEP 2 SEE ALLOWABLE CONFIGURATIONS ON SHEETS E6 THROUGH E12. SEE CHARTS ON SHEET G1 FOR ALLOWABLE DESIGN LOAD BASED ON DESIRED GLASS TYPE. SEE CHARTS ON SHEET K1 FOR INTERLOCK DESIGN LOAD. SEE SHEET K2 FOR SILL RAISER OPTION FOR WATER INFILTRATION.

STEP 3 FOR FREESTANDING JAMB USED AT 2 TRACK OR 3 TRACK, SEE CHARTS ON SHEET J1 AND J2 FOR REINFORCING LEVEL AND CAPACITIES.

STEP 4 FOR ANCHORED JAMB, SEE OPTIONS AND SPACING ON SHEETS J3 AND J4.

STEP 5 USING CHARTS ON SHEET A1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 6 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 5 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING	CL - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	G.B. - GLASS BITE
W/ - WITH	SECTION NUMBER
W/O - WITHOUT	
VERT.- VERTICAL	
T.H.- TRANSOM HEIGHT	

X

XX

SHEET NUMBER

FL #22267

LIMITATIONS OF USE			
A-	THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.		
B-	CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.		
C-	THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.		
D-	SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.		
E-	THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.		

YONG WANG

FLORIDA REGISTRATION

FL #55983

C.A.N. 55987

December 27th, 2023

Drawn Date	Scale
12.04.2023	AS SHOWN
DRAWING NO.	
AD16-29	
COVER	
Sheet No.	
01 OF 59	

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

MCY

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

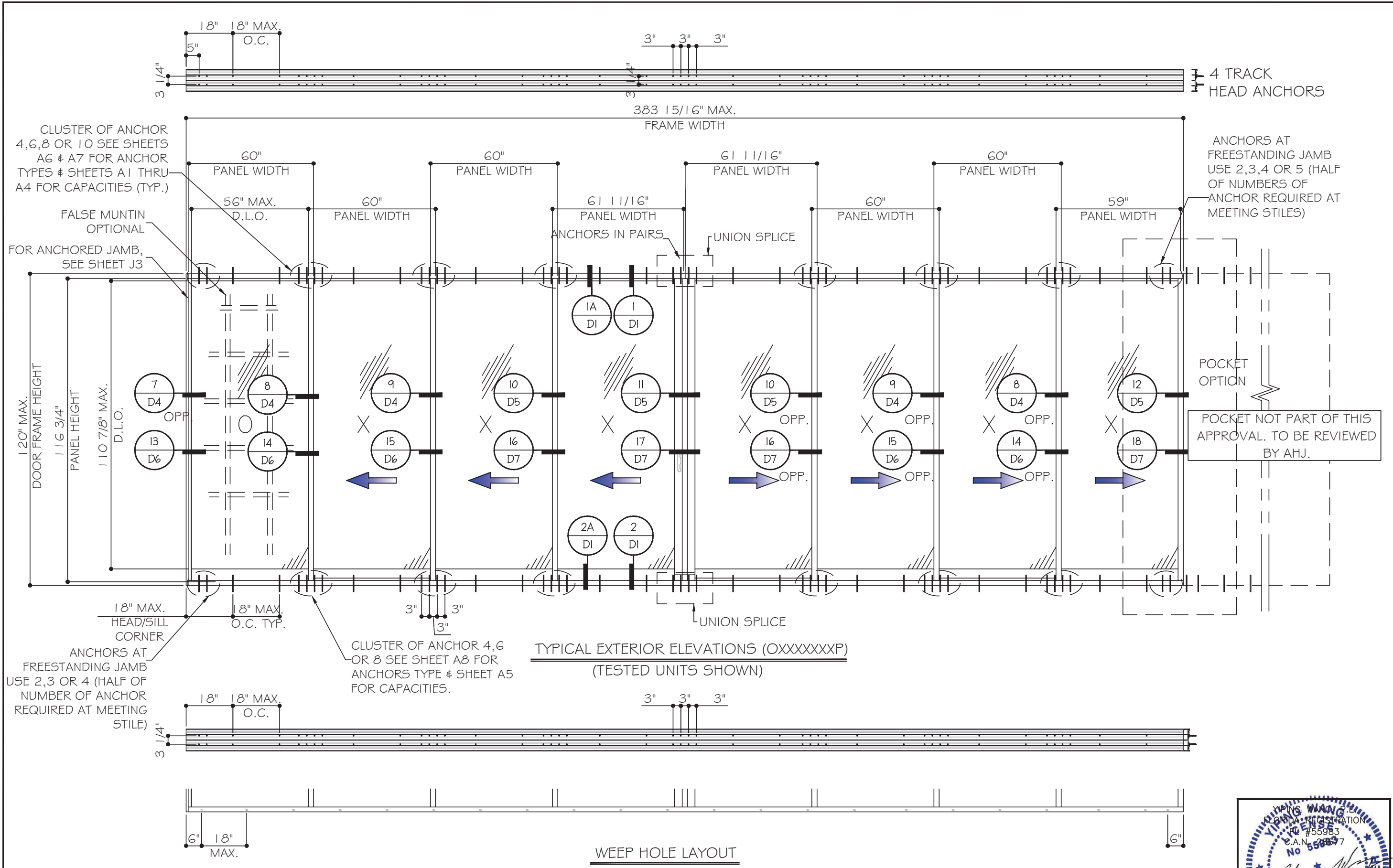
MIRAMAR, FL 33027

P: 305.271.0117

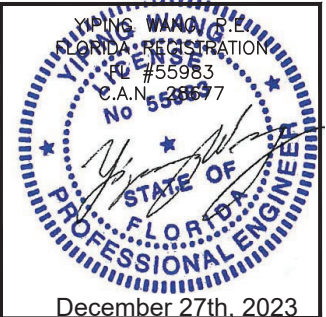
www.MCYEngineering.com

mcy@mcyengineering.com

ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



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M

C

Y

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

Rev	No.	Date	Drawn By	Description
1	1	12.04.2023	James	

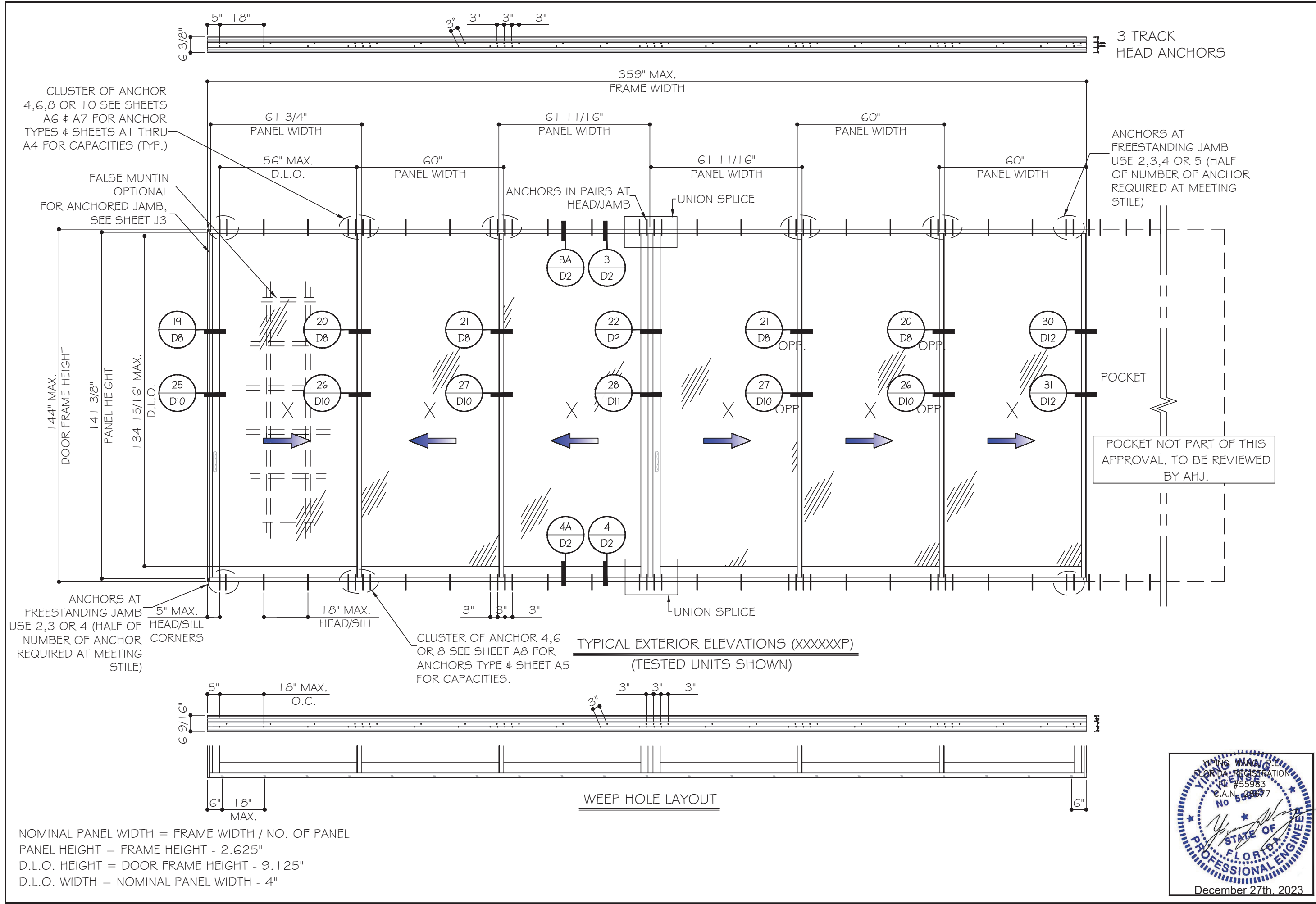
Drawn Date
12.04.2023

Scale

DRAWING NO.
AD16-29

E1

Sheet No.
02 OF 59



CLUSTER OF ANCHOR 4,6,8 OR 10 SEE SHEETS A6 & A7 FOR ANCHOR TYPES & SHEETS A1 THRU A4 FOR CAPACITIES (TYP.)

FALSE MUNTIN OPTIONAL FOR ANCHORED JAMB, SEE SHEET J3

ANCHORS AT FREESTANDING JAMB USE 2,3 OR 4 (HALF OF NUMBER OF ANCHOR REQUIRED AT MEETING STILE)

NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"

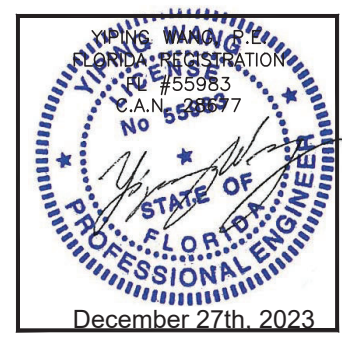
3 TRACK HEAD ANCHORS

ANCHORS AT FREESTANDING JAMB USE 2,3,4 OR 5 (HALF OF NUMBER OF ANCHOR REQUIRED AT MEETING STILE)

POCKET
POCKET NOT PART OF THIS APPROVAL. TO BE REVIEWED BY AHJ.

TYPICAL EXTERIOR ELEVATIONS (XXXXXXP)
(TESTED UNITS SHOWN)

WEEP HOLE LAYOUT



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M

C

Y

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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Miami, FL 33138
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Rev	No.	Date	Drawn By	Description
1	1	12.04.2023	James	

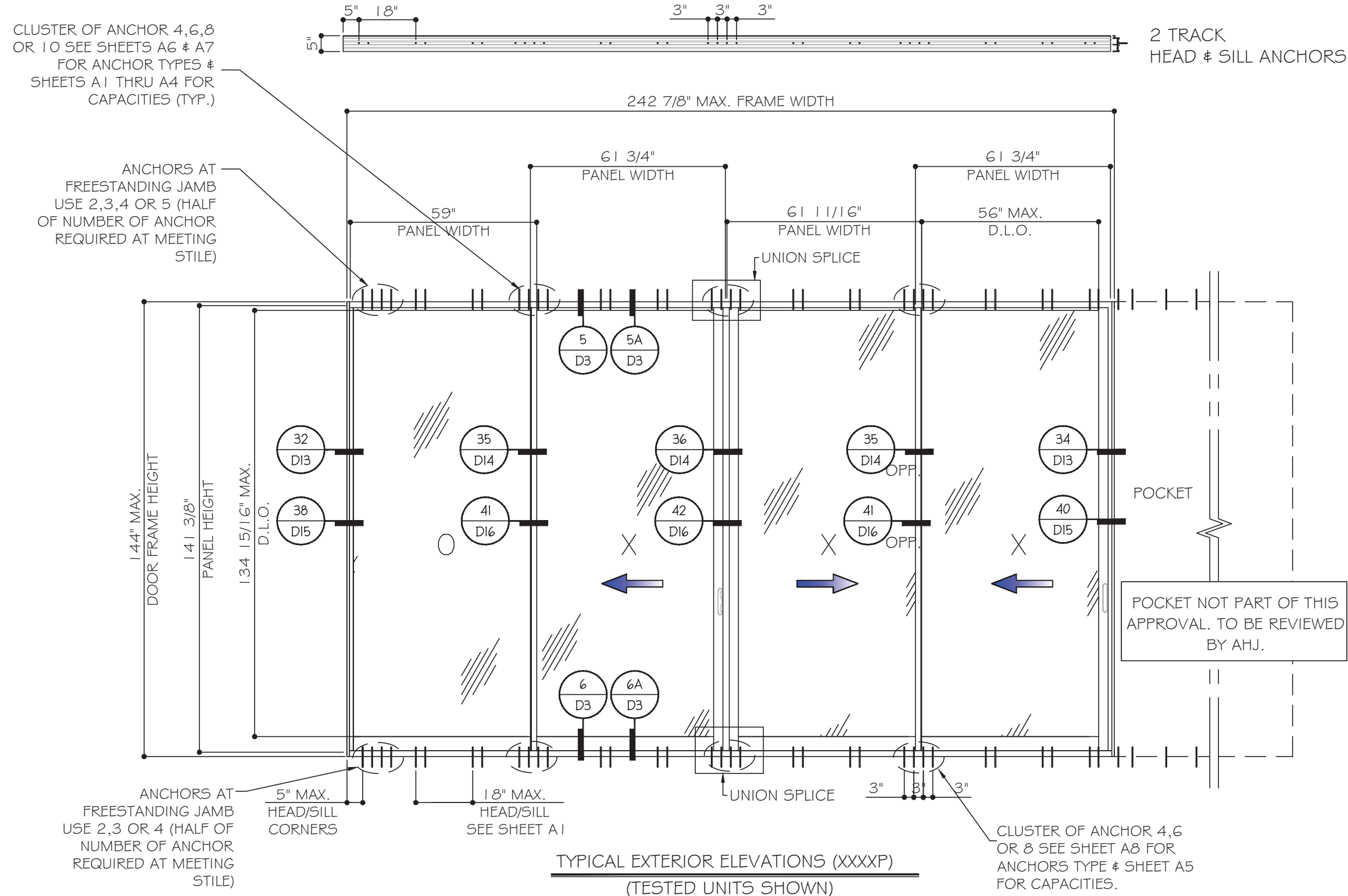
Drawn Date
12.04.2023

Scale

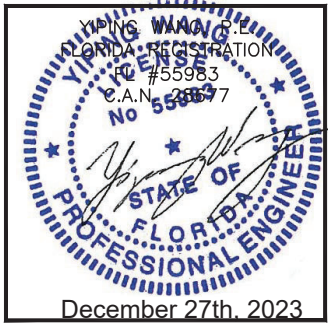
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AD16-29

E2

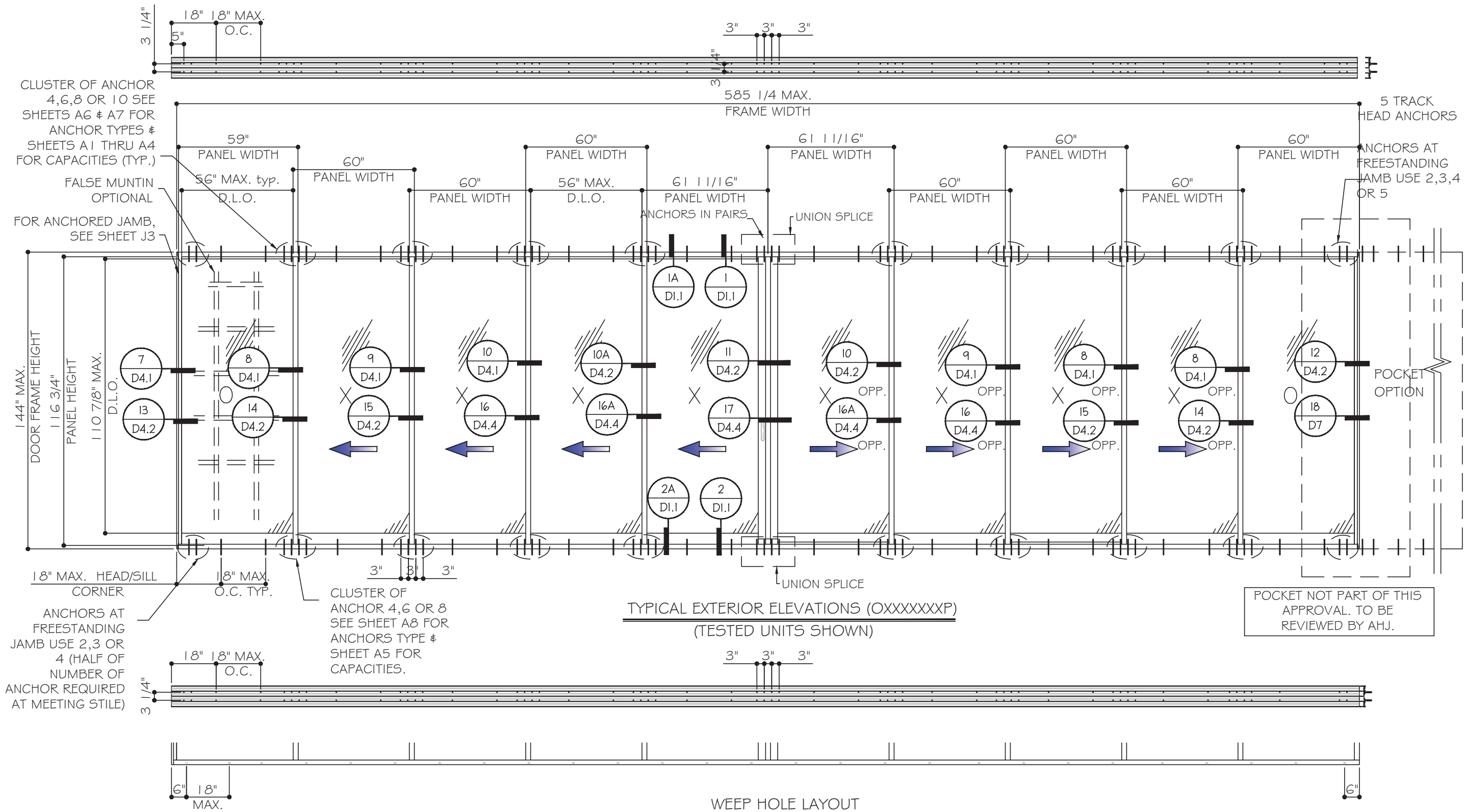
Sheet No.
03 OF 59



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)		REVISION		Description	
No.	Date	Rev.	By	Date	Description
1	12.04.2023	James	Drawn		
Drawn Date		Scale		DRAWING NO.	
12.04.2023				AD16-29	
				E3	
				Sheet No.	
				04 OF 59	



CLUSTER OF ANCHOR 4,6,8 OR 10 SEE SHEETS A6 & A7 FOR ANCHOR TYPES & SHEETS A1 THRU A4 FOR CAPACITIES (TYP.)

FALSE MUNTIN OPTIONAL

FOR ANCHORED JAMB, SEE SHEET J3

18" MAX. HEAD/SILL CORNER

ANCHORS AT FREESTANDING JAMB USE 2,3 OR 4 (HALF OF NUMBER OF ANCHOR REQUIRED AT MEETING STILE)

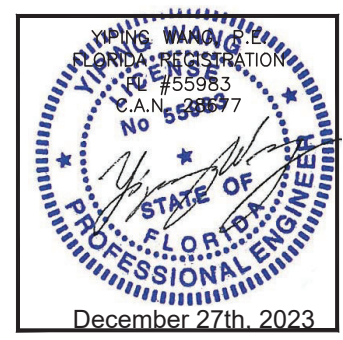
CLUSTER OF ANCHOR 4,6 OR 8 SEE SHEET A8 FOR ANCHORS TYPE & SHEET A5 FOR CAPACITIES.

TYPICAL EXTERIOR ELEVATIONS (OXXXXXXXP)
(TESTED UNITS SHOWN)

POCKET NOT PART OF THIS APPROVAL. TO BE REVIEWED BY AHJ.

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PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"

FOR INTERLOCK CAPACITY
SEE CHARTS
SHEET K.1



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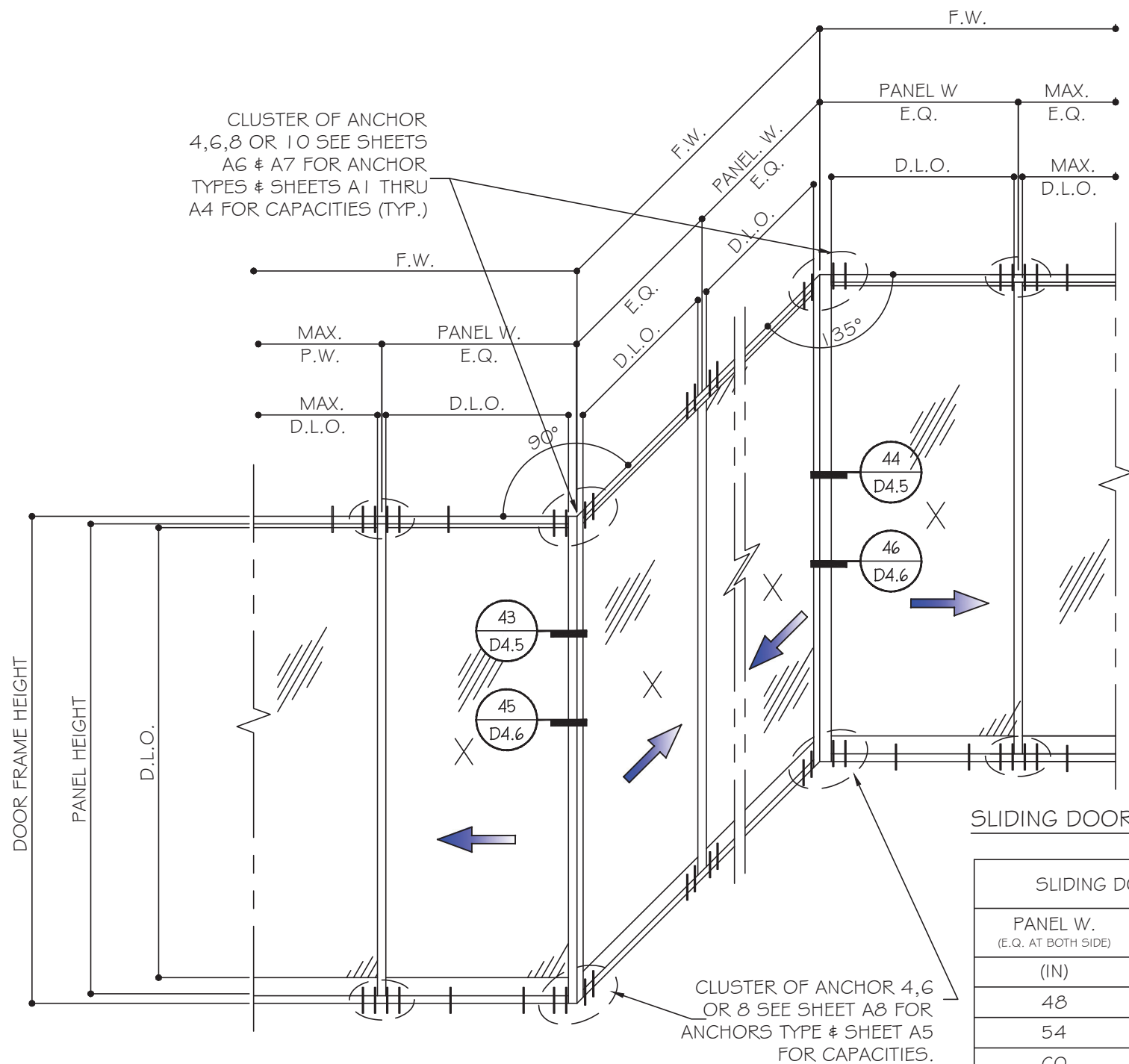
ES WINDOWS, INC.
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TEL. (305) 624-7775

Rev.	Date	Drawn By	Description
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Drawn Date: 12.04.2023Scale: DRAWING NO. AD16-29

E4

Sheet No. 05 OF 59



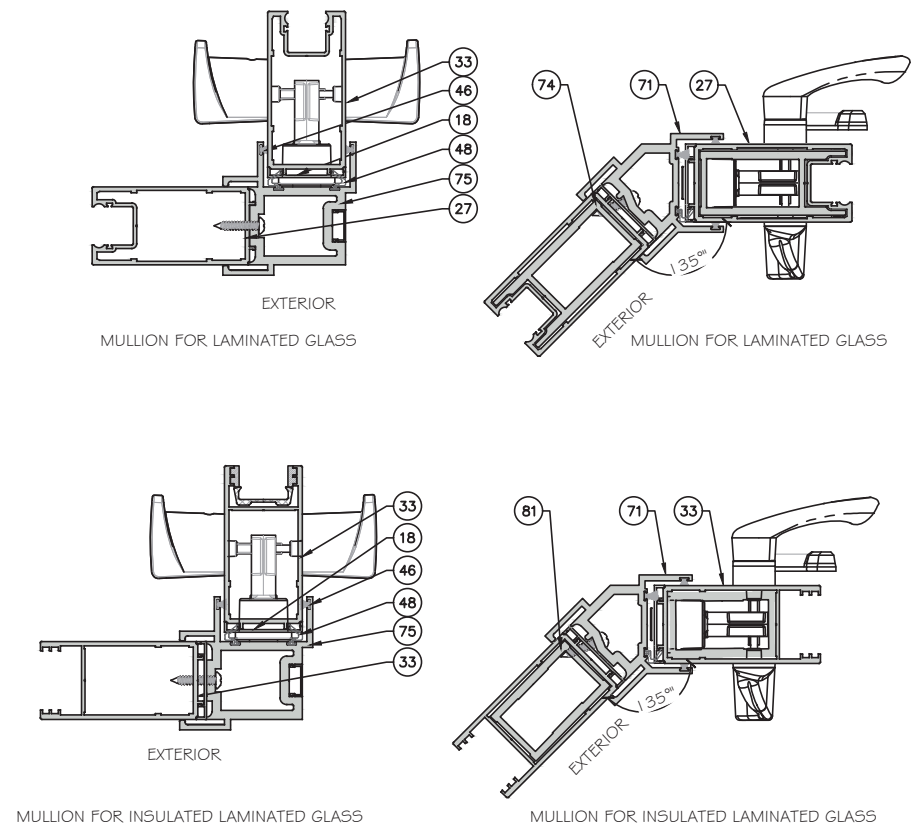
CORNER MULLIONS

NOTE: CAPACITY FOR SGD WITH EQ WIDTH(W) AND EQUAL LOAD AT BOTH SIDES. FOR UNEQUAL CONDITIONS TO BE CHECKED SEPARATELY.

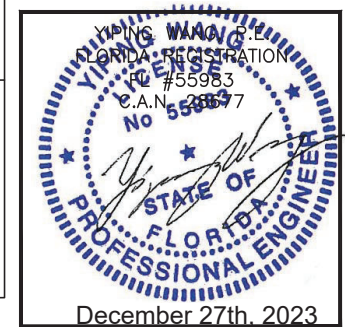
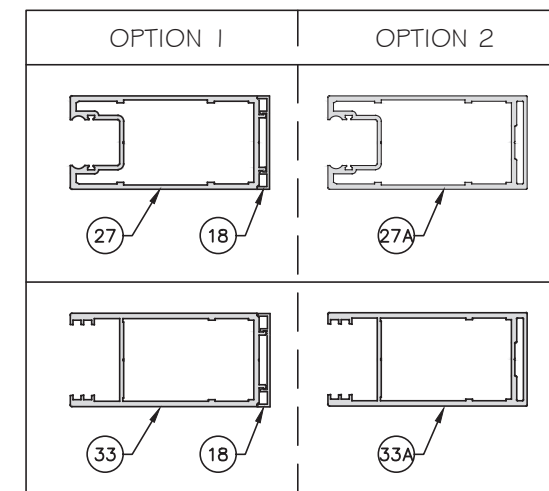
SLIDING DOOR WITH 90° & 135° TURN

SLIDING DOOR WITH CORNER STILES			
PANEL W. (E.Q. AT BOTH SIDE)	F.H.	ALLOW. DESIGN LOAD	
(IN)	(IN)	(+) PSF	(-) PSF
48	120	90	102
54		88.3	100.1
60		79.5	90.1
42	126	90	102
48		85.8	97.3
54		76.3	86.5
42	132	85.3	96.7
48		74.7	84.6
54		66.4	75.2
36	138	87.1	98.7
42		74.7	84.6
48		65.3	74.1
36	144	76.7	86.9
42		65.7	74.5
48		57.5	65.2

CORNER MULLION

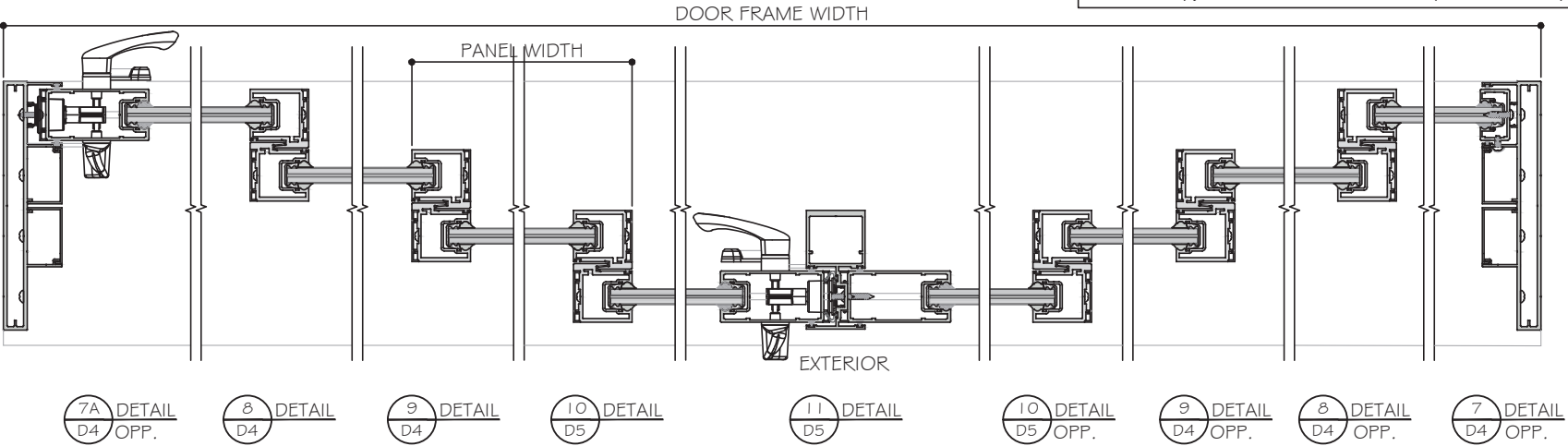
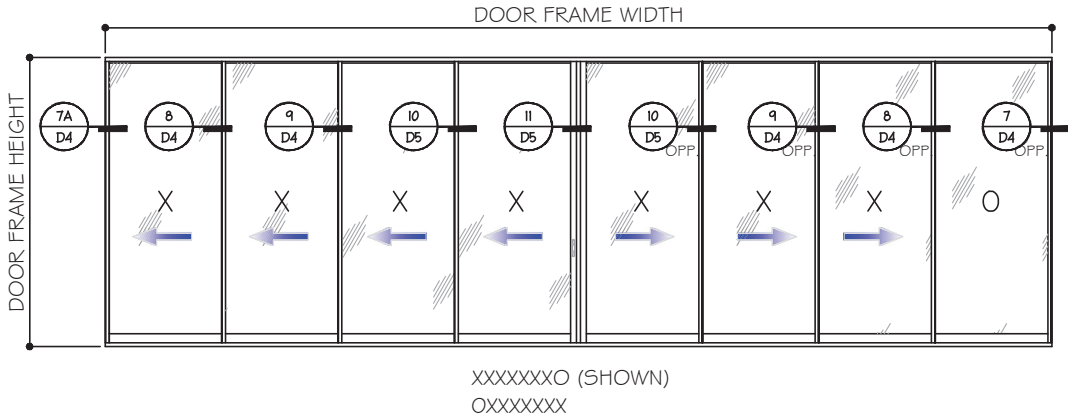


LOCKSTILE OPTIONS



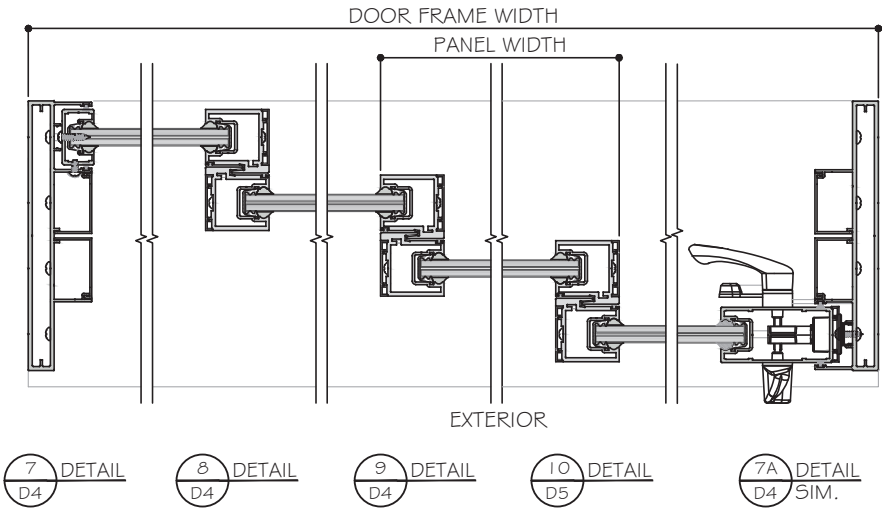
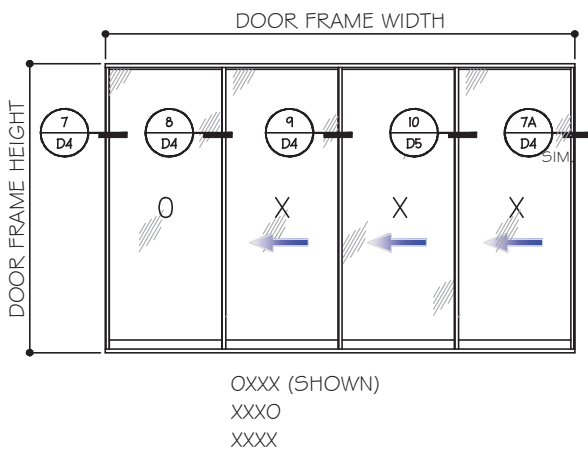
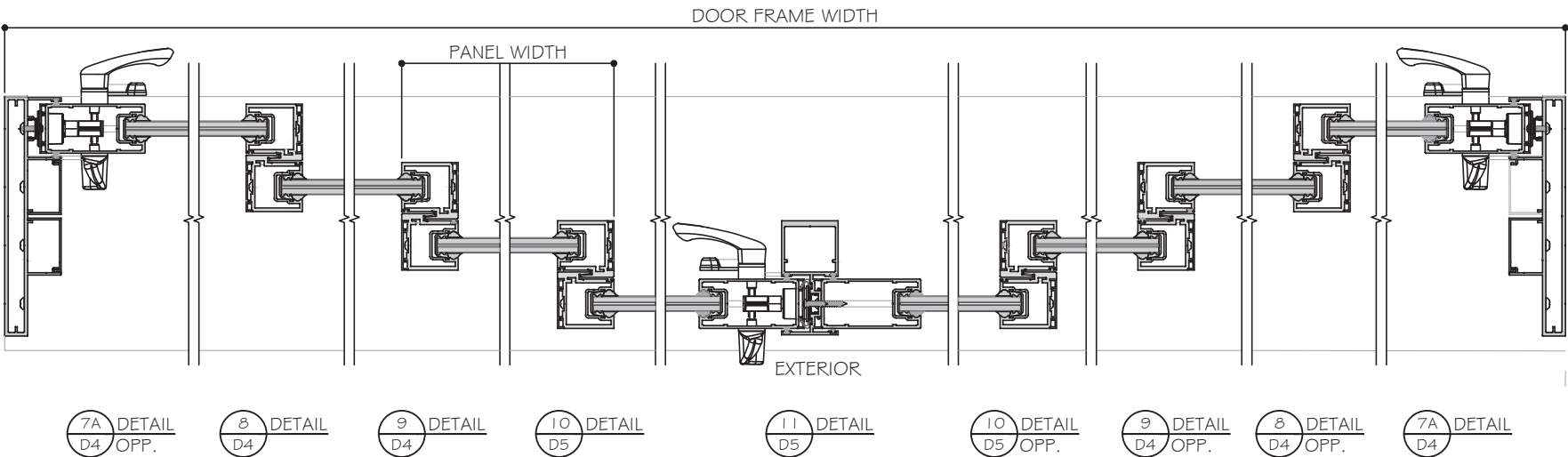
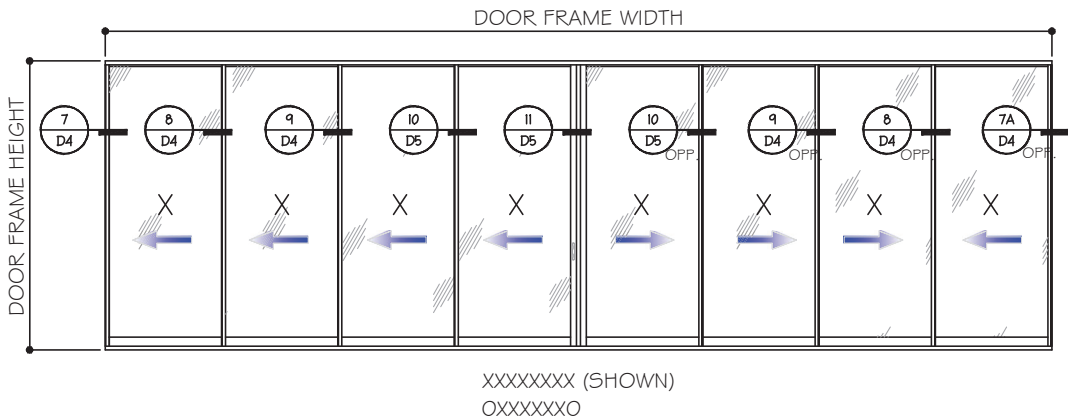
Rev. No.	Date	Drawn By	Description
1	12.04.2023	James	
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APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



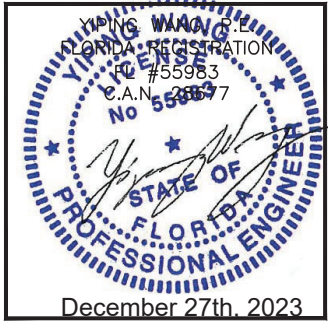
LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
 3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

FOUR (4) TRACKS



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

Rev.	Date	Drawn By	Description
1	12.04.2023	James	

Drawn Date

12.04.2023

Scale

DRAWING NO.

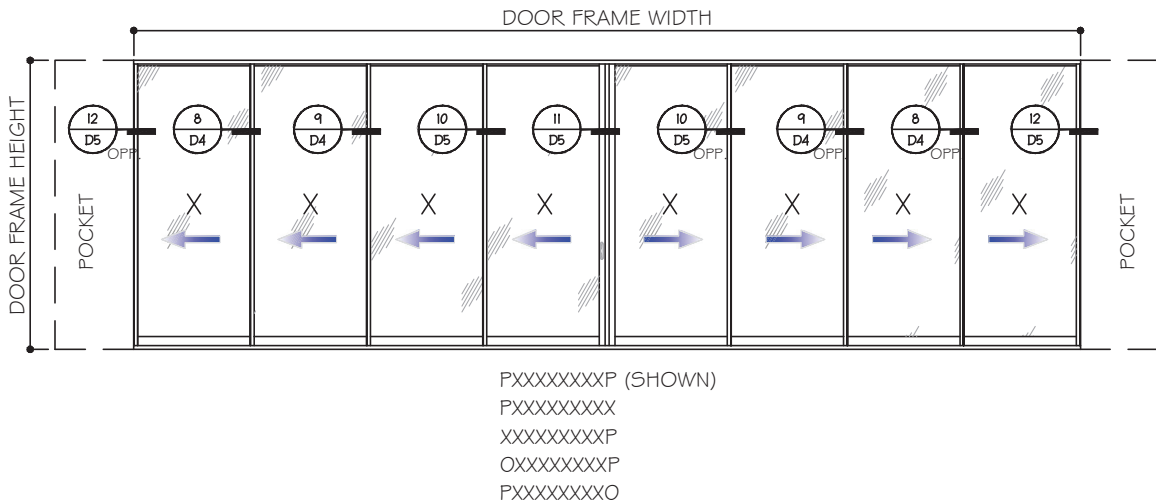
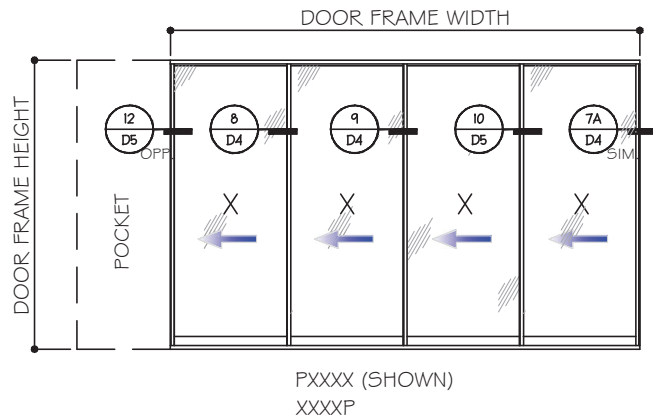
AD16-29

Sheet No.

E6

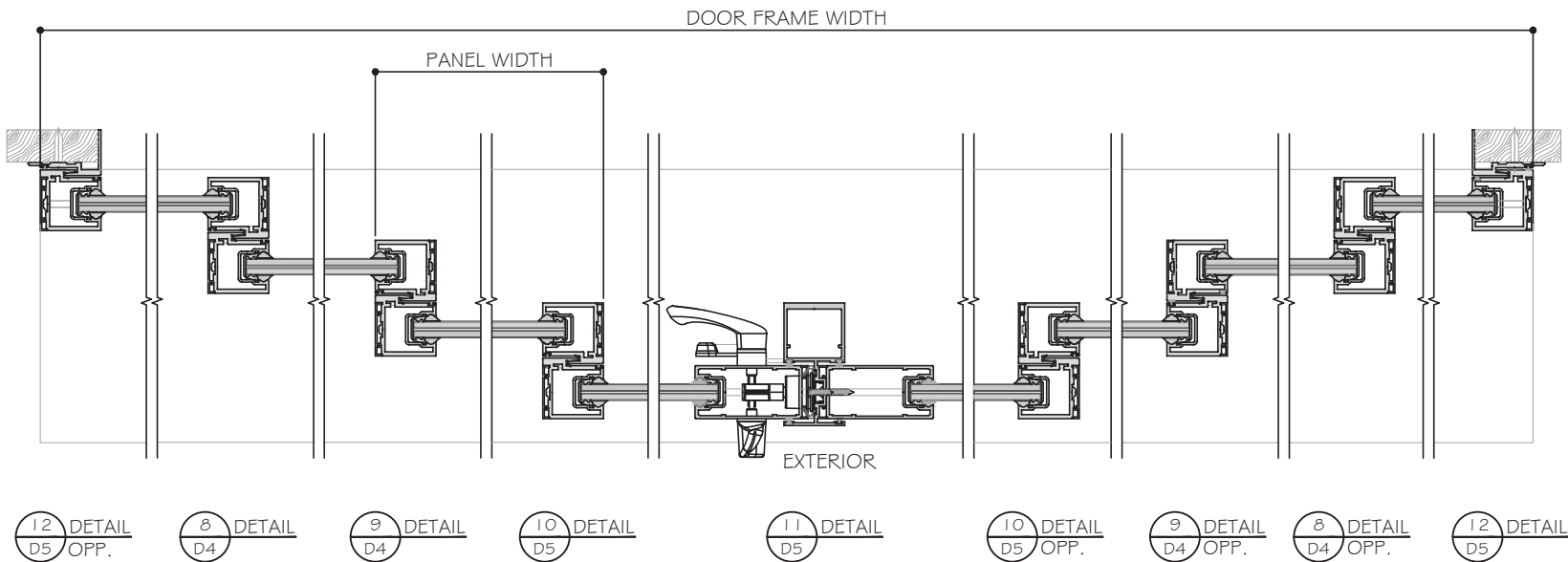
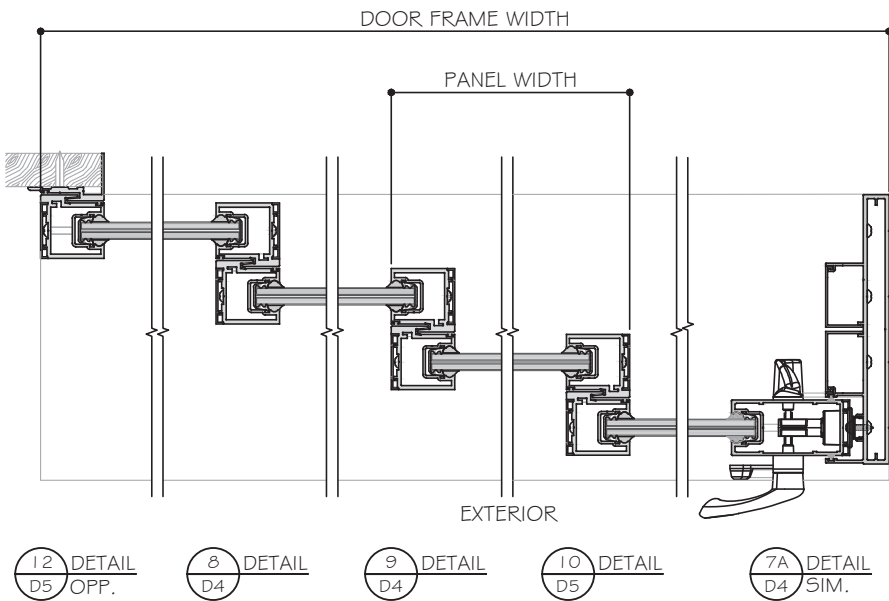
07 OF 59

APPROVED CONFIGURATION POCKETED DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

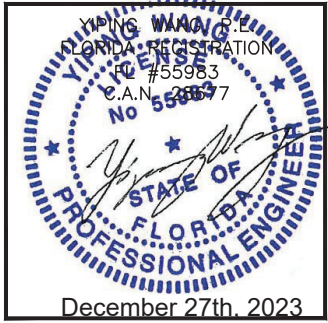
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
 3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

FOUR (4) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
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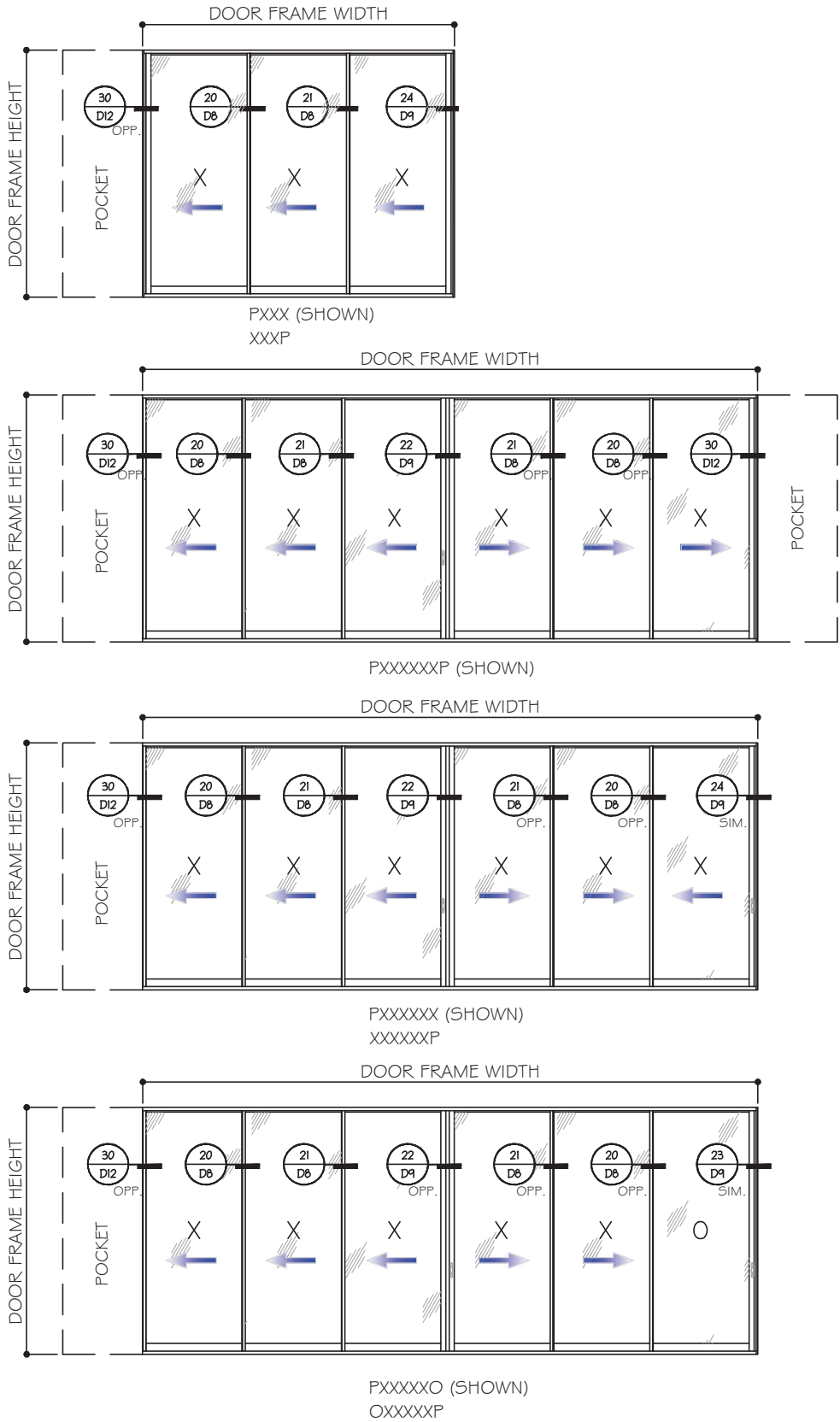
ES-WINDOWS, INC.
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Drawn Date		Scale	
12.04.2023			
Drawing No.		AD16-29	
Sheet No.		08 OF 59	

APPROVED CONFIGURATION POCKETED DOORS

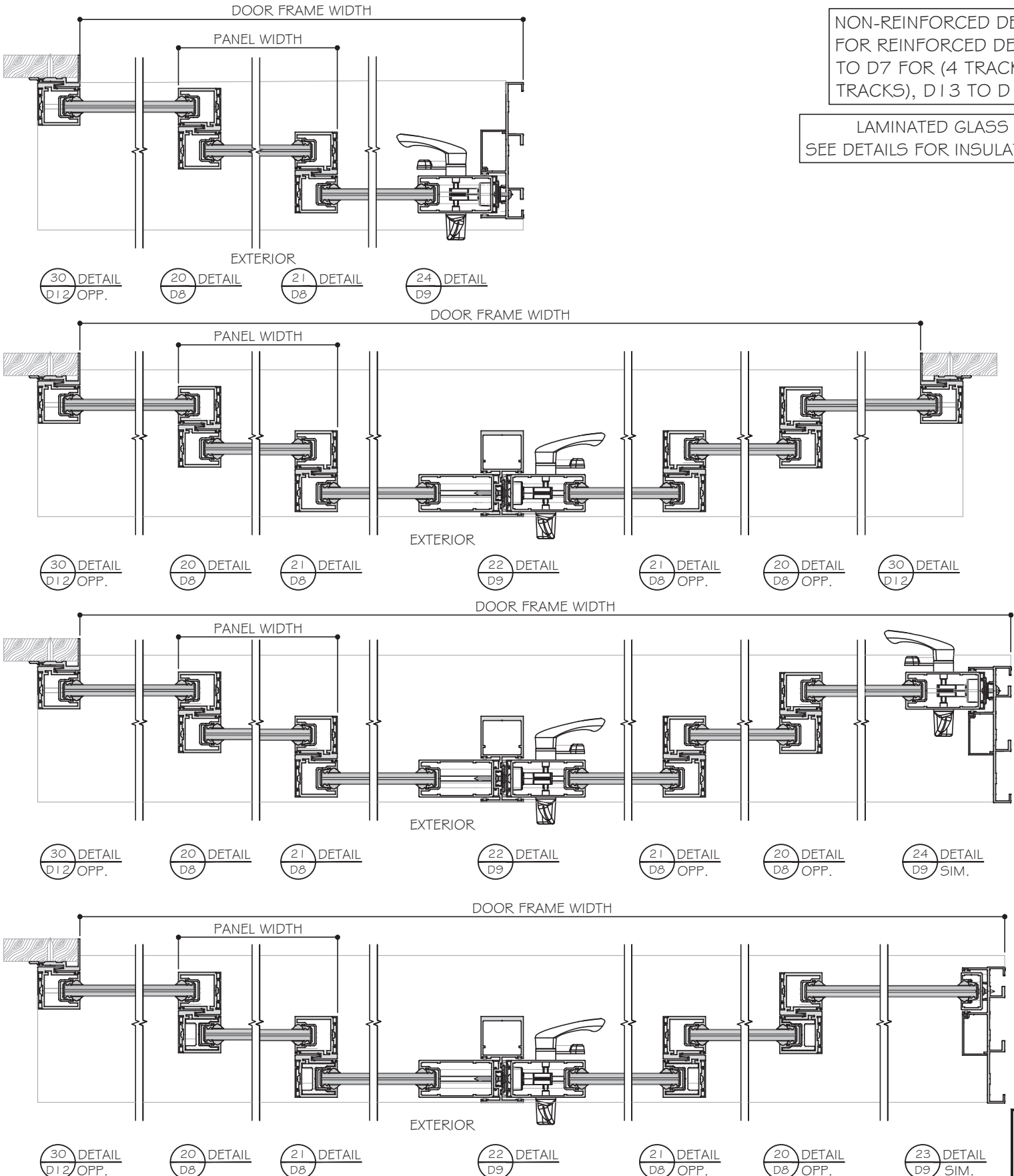
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SEE SHEET K1 FOR Dp AND REINFORCING OPTIONS



THREE (3) TRACKS

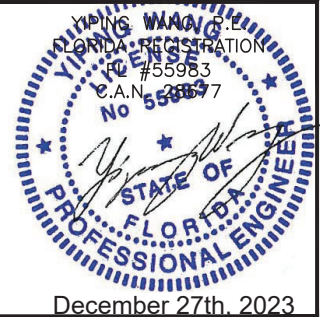
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Scale

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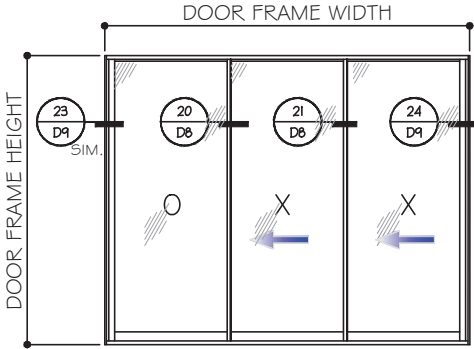
AD16-29

Sheet No.

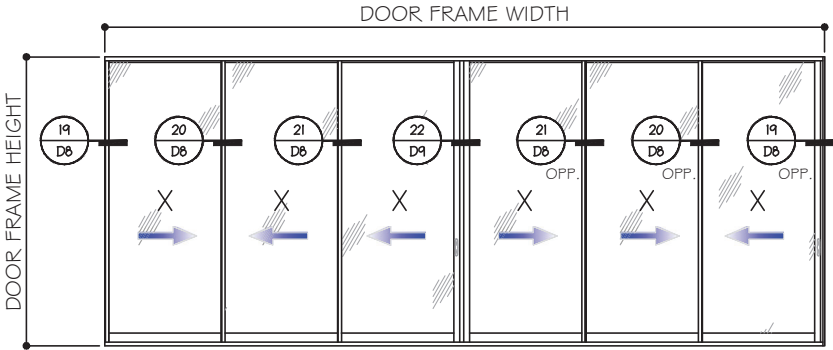
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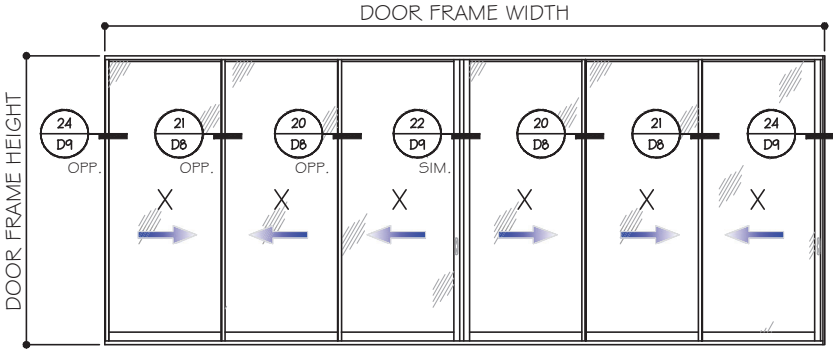
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(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



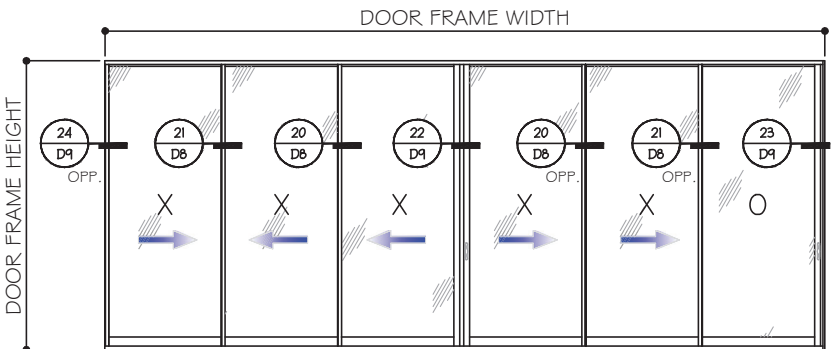
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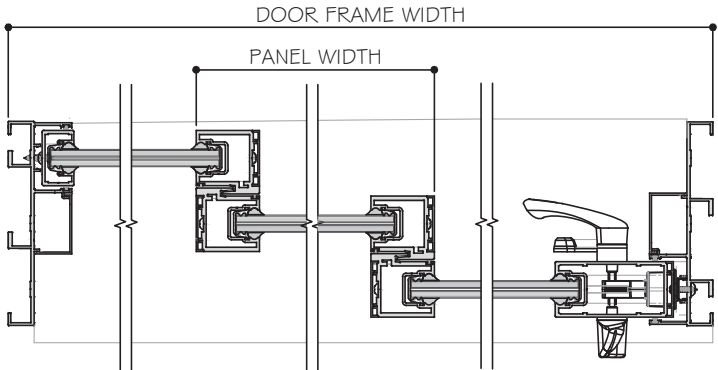
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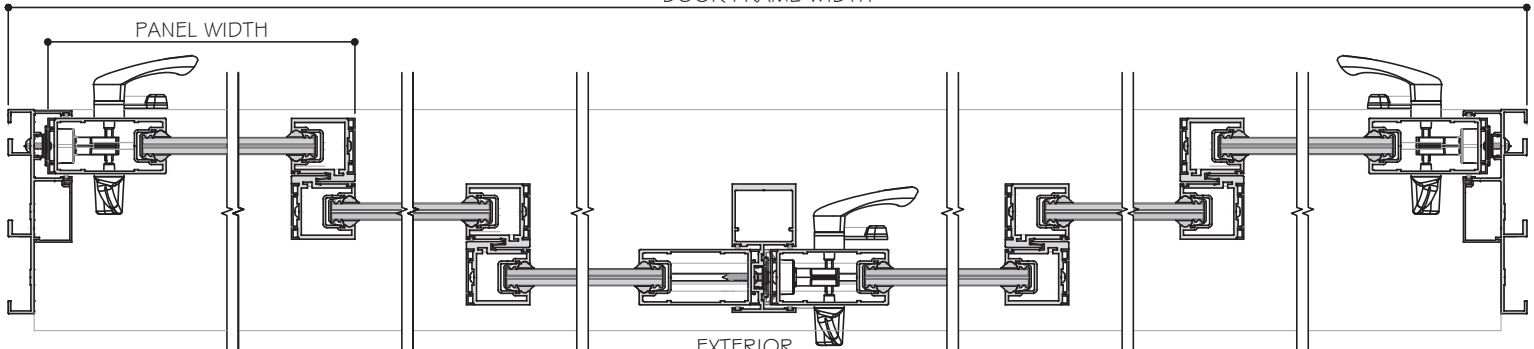
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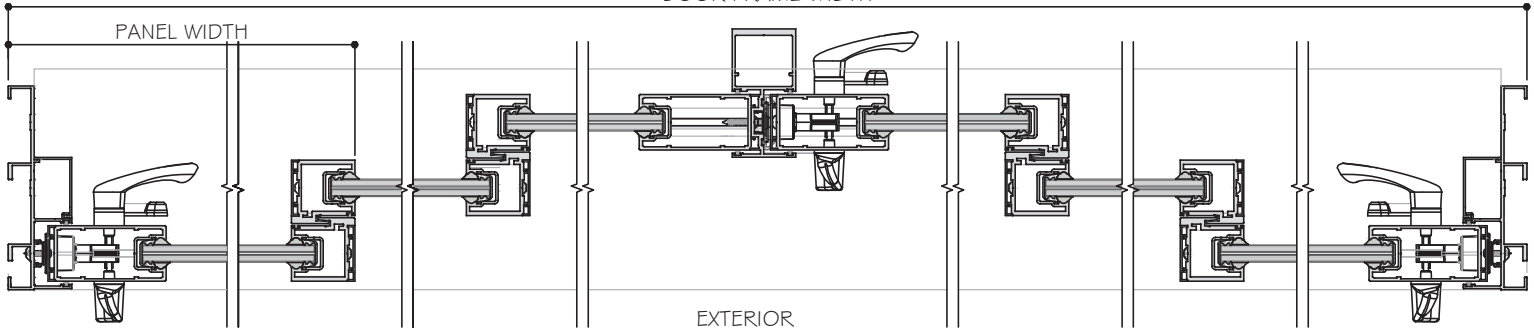
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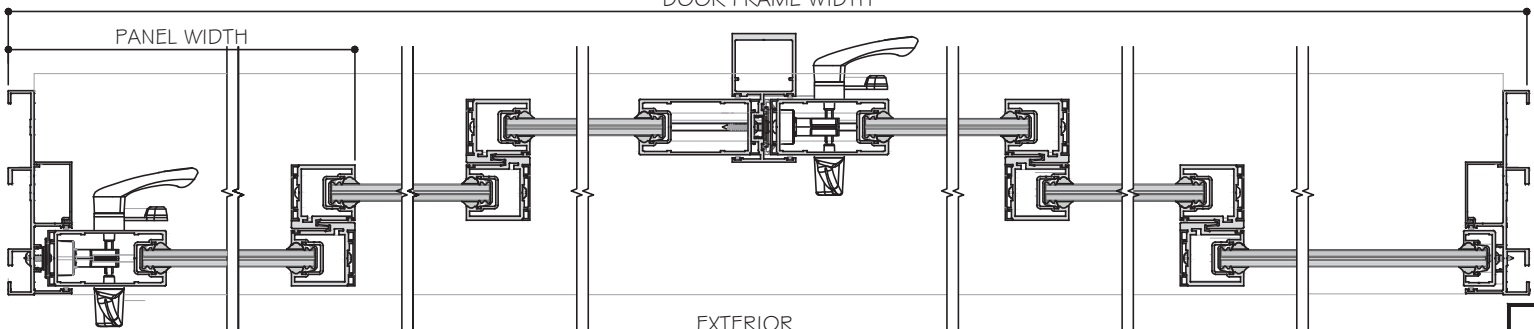
23 D9 SIM. DETAIL
20 D8 DETAIL
21 D8 DETAIL
24 D9 DETAIL



19 D8 DETAIL
20 D8 DETAIL
21 D8 DETAIL
22 D9 DETAIL
21 D8 OPP. DETAIL
20 D8 OPP. DETAIL
19 D8 OPP. DETAIL



24 D9 DETAIL OPP.
21 D8 DETAIL OPP.
20 D8 DETAIL OPP.
22 D9 DETAIL SIM.
20 D8 DETAIL
21 D8 DETAIL
24 D9 DETAIL



24 D9 DETAIL OPP.
21 D8 DETAIL OPP.
20 D8 DETAIL OPP.
22 D9 DETAIL SIM.
20 D8 DETAIL
21 D8 DETAIL
23 D9 DETAIL

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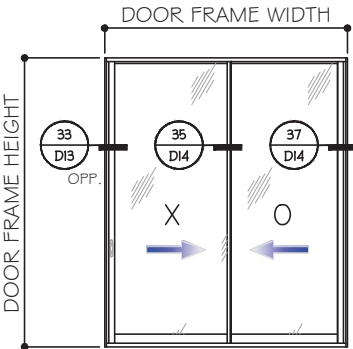


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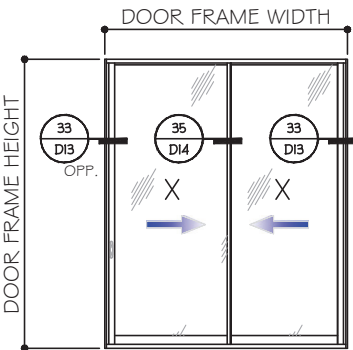
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Rev.	No.	Date	Drawn By	Description
1	1	12.04.2023	James	REVISION
Drawn Date: 12.04.2023 Scale: 1/4" = 1'-0"				
DRAWING NO. AD16-29				
E9				
Sheet No. 10 OF 59				

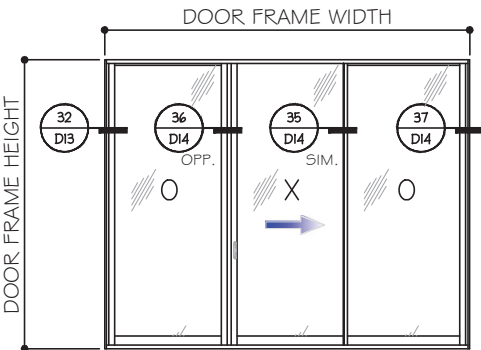
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



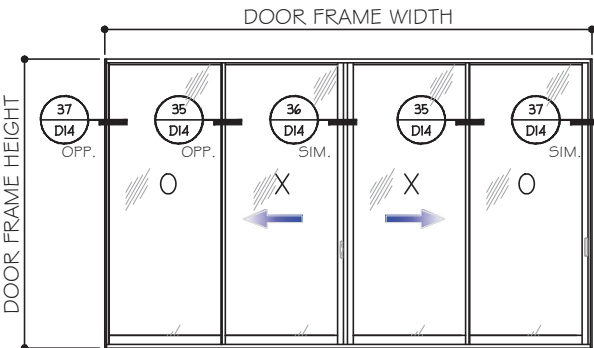
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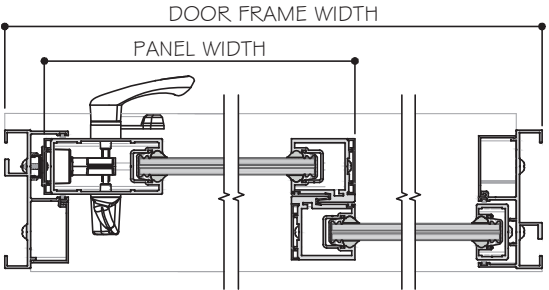
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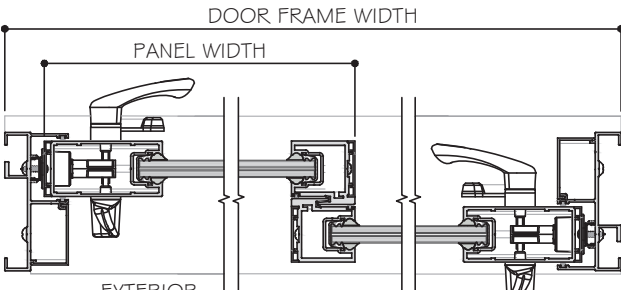
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33 DETAIL
D13 OPP.

35 DETAIL
D14

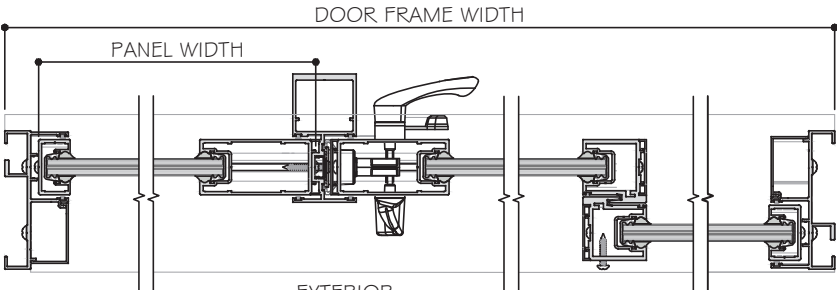
37 DETAIL
D14



33 DETAIL
D13 OPP.

35 DETAIL
D14

33 DETAIL
D13 SIM.

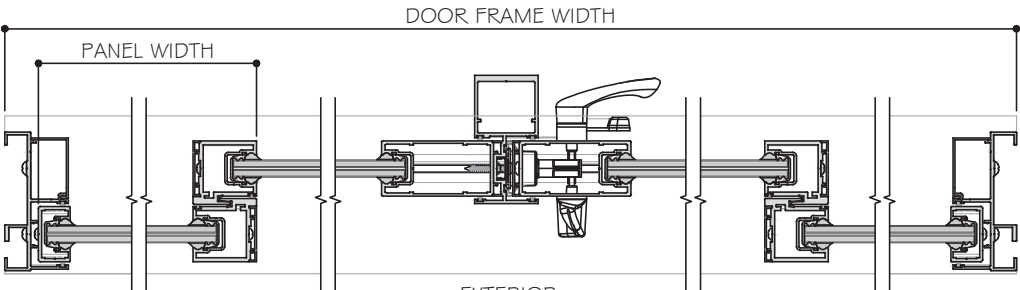


32 DETAIL
D13

36 DETAIL
D14 OPP.

35 DETAIL
D14 SIM.

37 DETAIL
D14



37 DETAIL
D14 OPP.

35 DETAIL
D14 OPP.

36 DETAIL
D14 SIM.

35 DETAIL
D14

37 DETAIL
D14

NOTES:

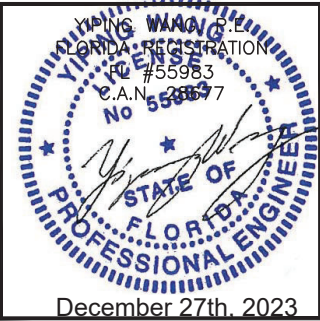
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TWO (2) TRACKS

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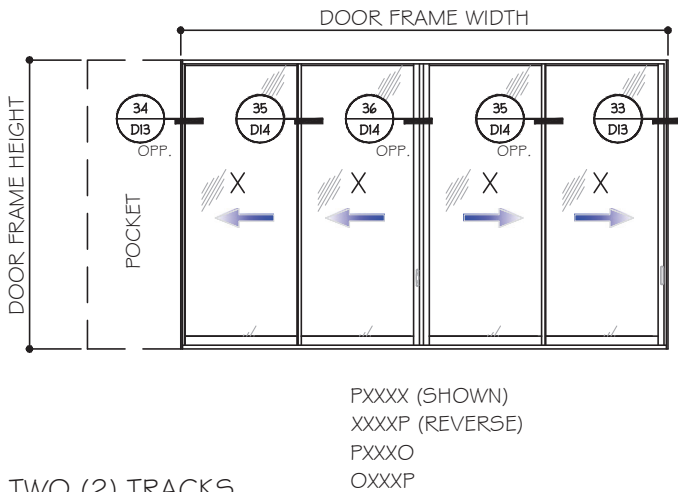
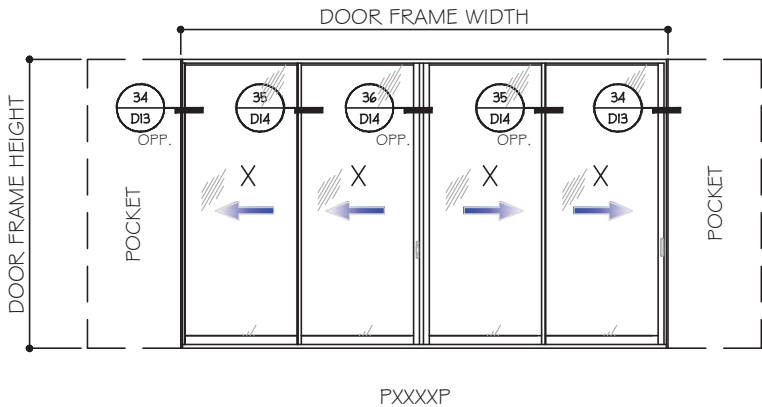
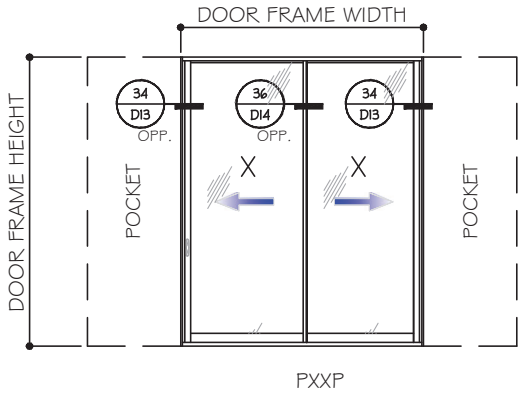
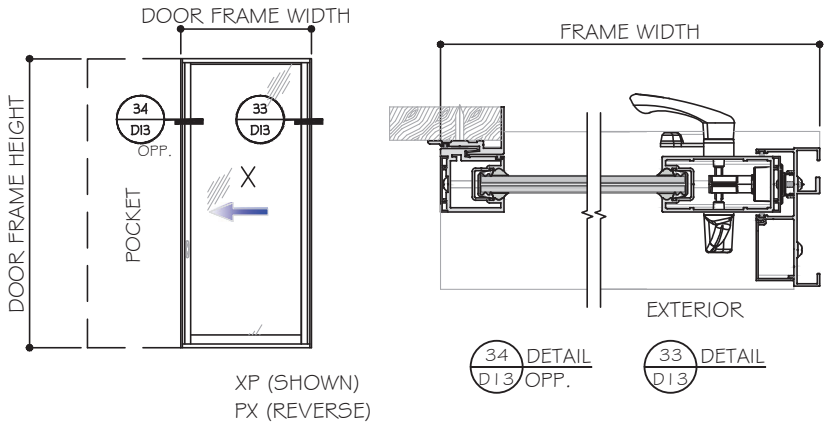
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APPROVED CONFIGURATION POCKETED DOORS

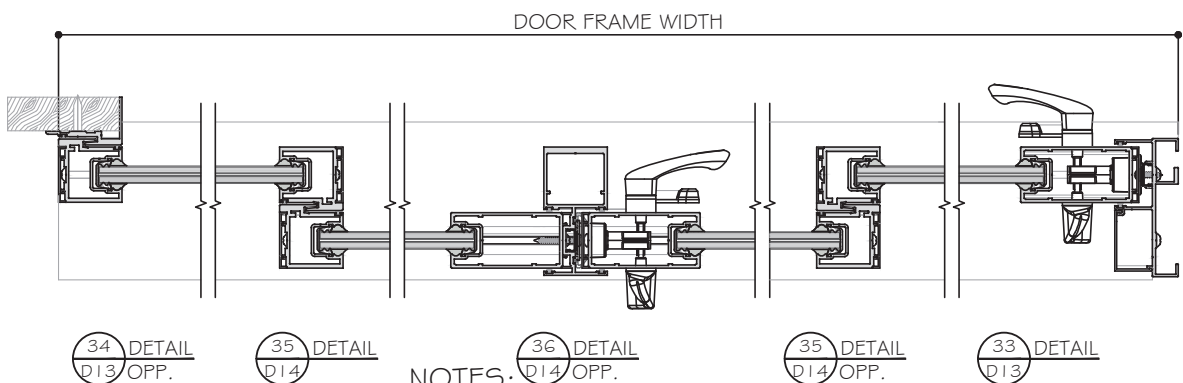
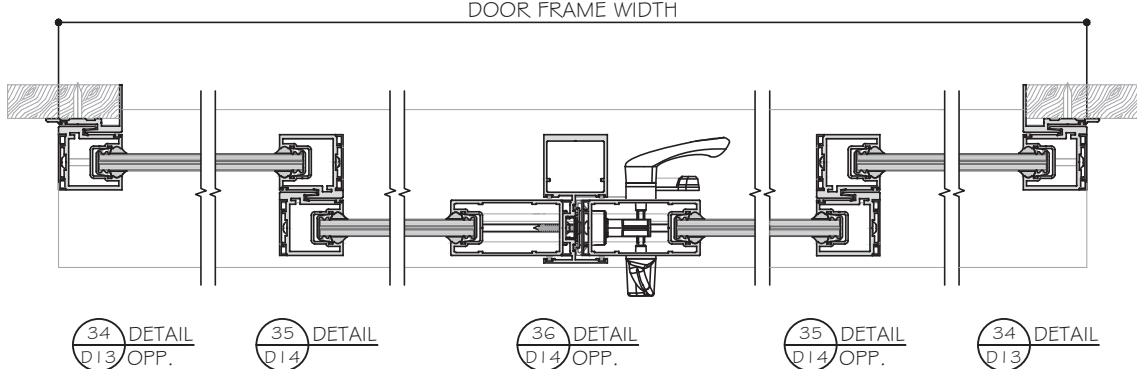
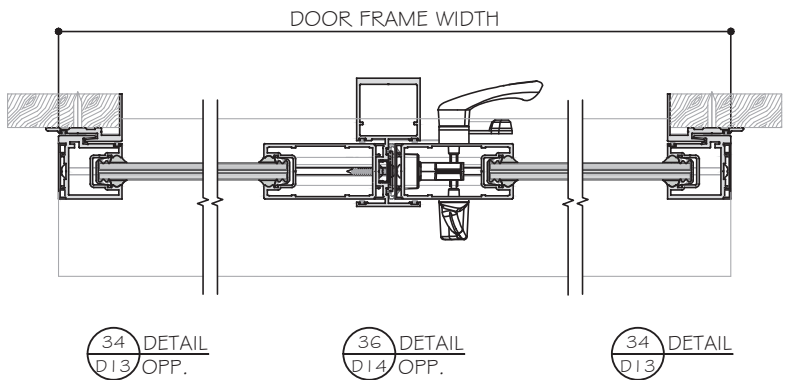
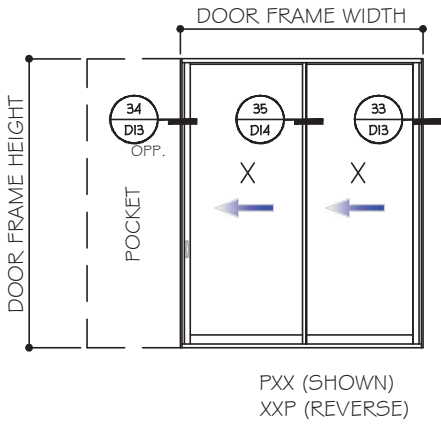
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TWO (2) TRACKS

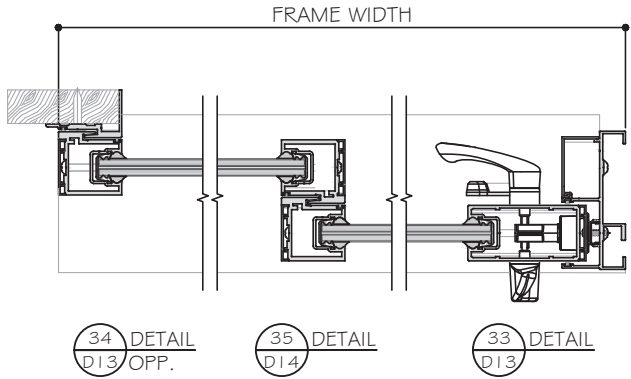
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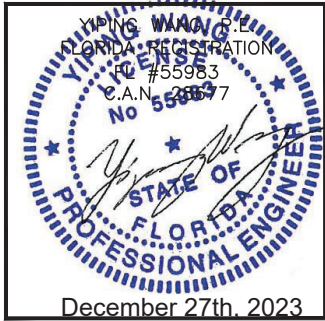
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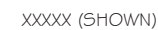
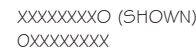


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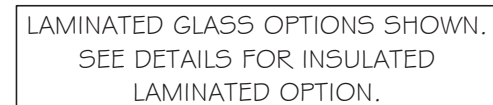
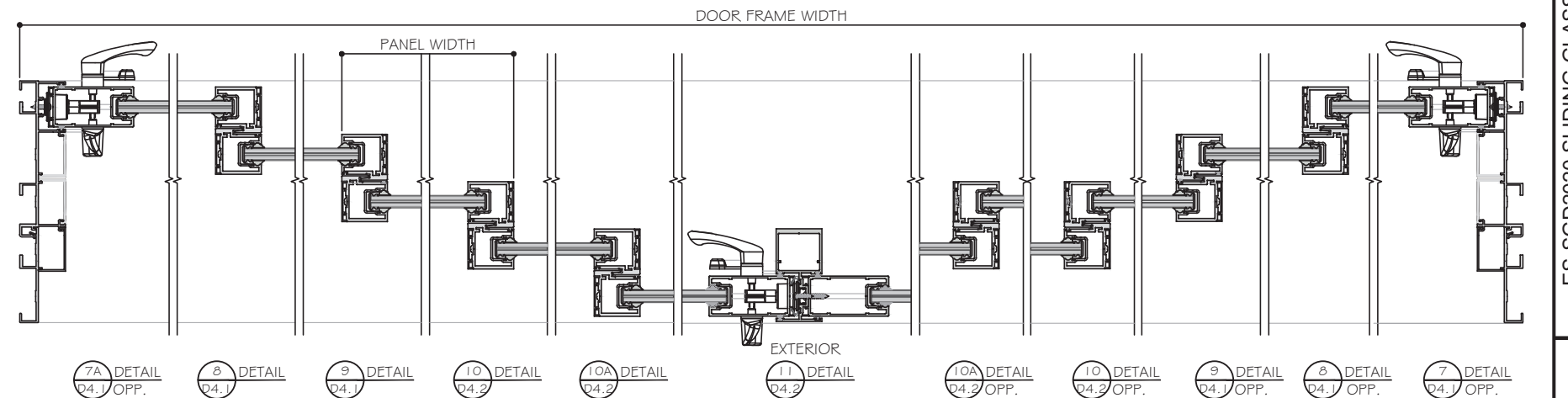
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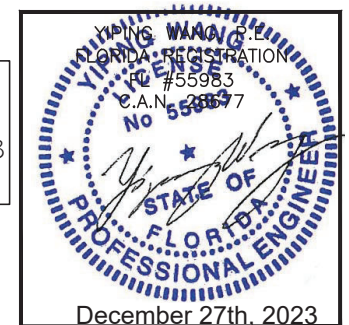
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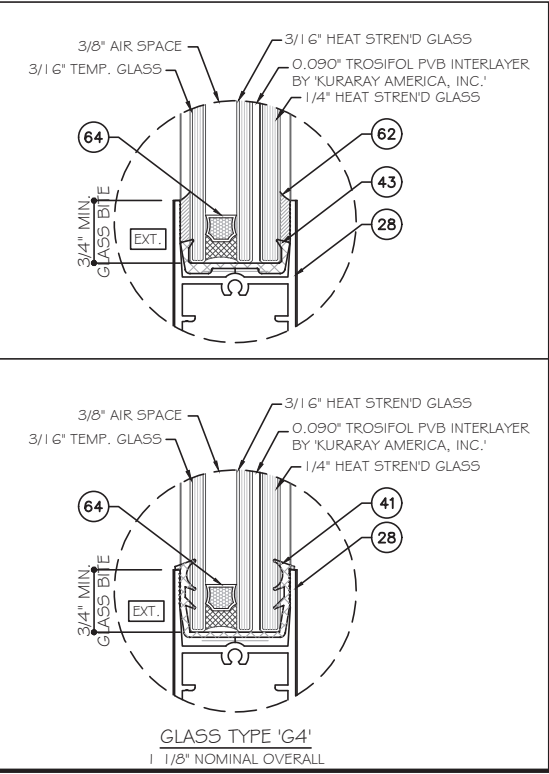
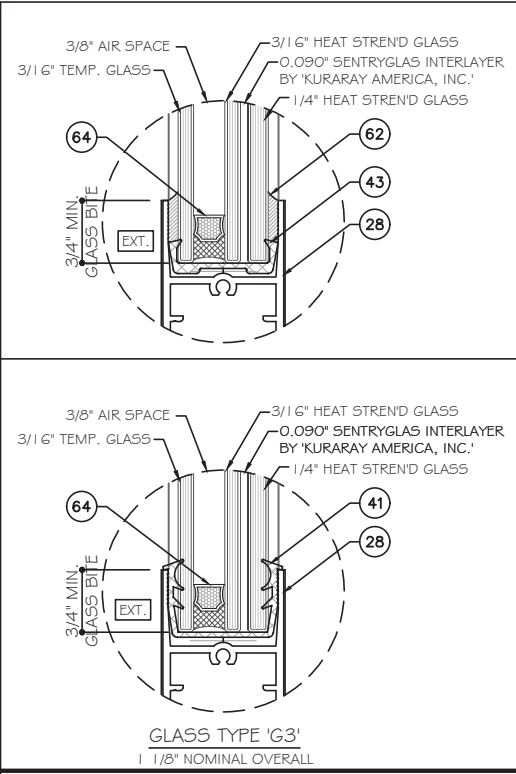
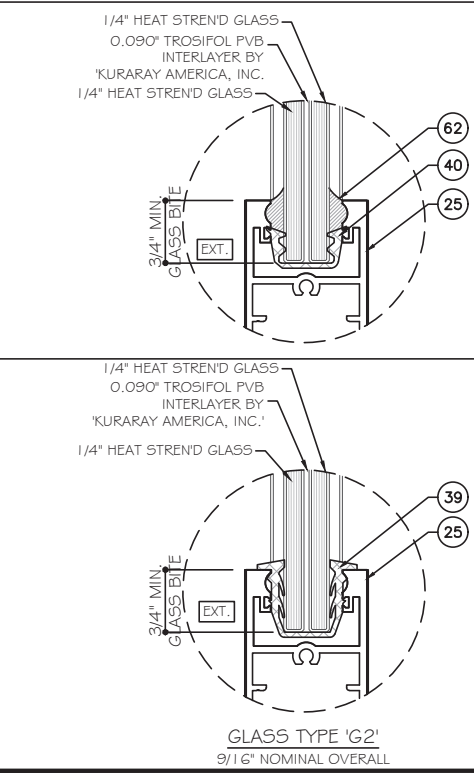
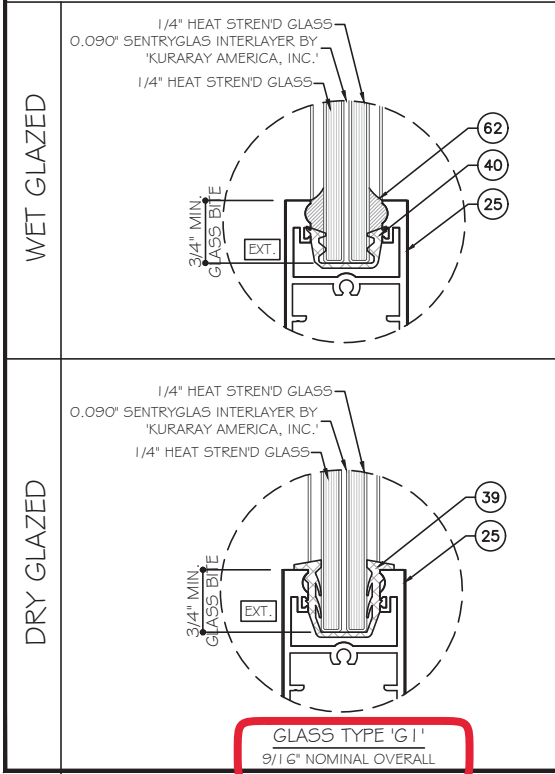
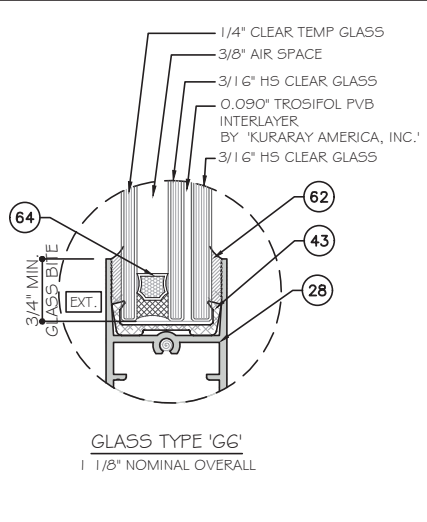
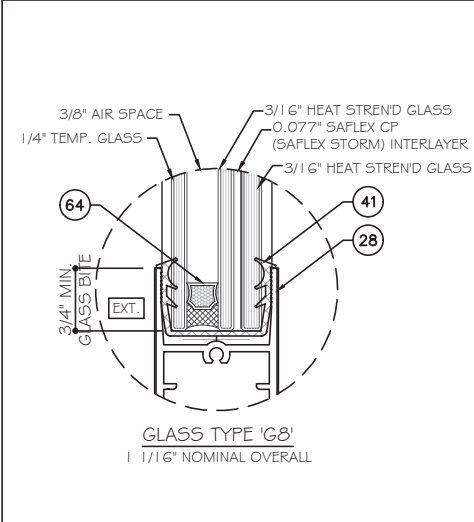
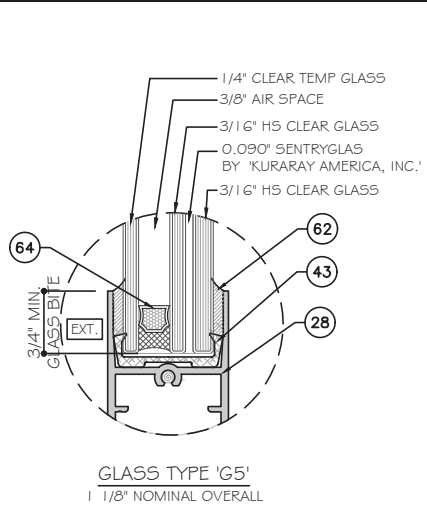
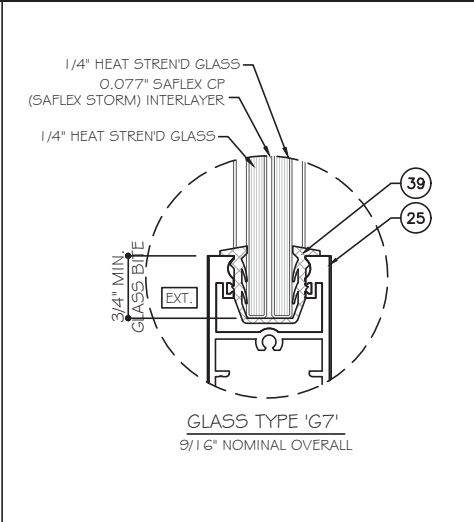
Miami, FL 33138
TEL. (305) 624-7775

[illegible]

DESIGN LOAD CAPACITY - PSF (GLASS)									
SGD PANEL SIZES		9/16" NOMINAL LAMINATED GLASS			1-1/8" NOMINAL INSUL. LAMI. GLASS		1-1/8" NOMINAL INSUL. LAMI. GLASS		
AVE. PANEL WIDTH	DOOR HEIGHT	G1	G2	G7	G3	G4	G5	G6	G8
(IN)	(IN)	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF
60	84	150.0	150.0	90.0	150.0	150.0	102.0	102.0	90.0
66		150.0	150.0	90.0	150.0	150.0	102.0	102.0	90.0
72		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
78		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
84		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
60	90	150.0	150.0	90.0	150.0	150.0	102.0	102.0	90.0
66		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
72		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
78		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
84		102.0	-	-	102.0	-	-	-	-
60	96	150.0	150.0	90.0	150.0	150.0	102.0	102.0	90.0
66		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
72		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
78		102.0	-	-	102.0	-	-	-	-
84		102.0	-	-	102.0	-	-	-	-
36	102	150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	147.0	102	102	90.0
48		150.0	150.0	90.0	150.0	131.0	102	102	90.0
54		150.0	139.0	90.0	150.0	120.0	102	102	90.0
60		102.0	100.0	90.0	102.0	102.0	102	-	90.0
66		102.0	100.0	90.0	102.0	102.0	102	-	90.0
72		102.0	100.0	90.0	102.0	101.0	-	-	90.0
78		102.0	-	-	102.0	-	-	-	-
84		102.0	-	-	102.0	-	-	-	-
36	108	150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	136.0	102	102	90.0
48		150.0	147.0	90.0	150.0	122.0	102	102	90.0
54		102.0	102.0	90.0	102.0	102.0	102	-	90.0
60		102.0	102.0	90.0	102.0	102.0	102	-	90.0
66		102.0	102.0	90.0	102.0	101.0	-	-	90.0
72		102.0	-	-	102.0	-	-	-	-
78		102.0	-	-	-	-	-	-	-

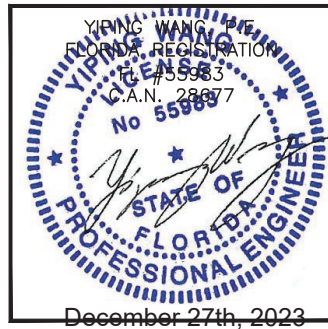
D.L.O. WIDTH = AVE. PANEL WIDTH - 4"
D.L.O. HEIGHT = FRAME HEIGHT - 9.125"

DESIGN LOAD CAPACITY - PSF (GLASS)									
SGD PANEL SIZES		9/16" NOMINAL LAMINATED GLASS			1-1/8" NOMINAL INSUL. LAMI. GLASS		1-1/8" NOMINAL INSUL. LAMI. GLASS		
AVE. PANEL WIDTH	DOOR HEIGHT	G1	G2	G7	G3	G4	G5	G6	G8
(IN)	(IN)	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF
36	114	150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	132.0	102	102	90.0
48		150.0	150.0	90.0	139.0	115.0	102	102	90.0
54		102.0	102.0	90.0	102.0	102.0	102	-	90.0
60		102.0	102.0	90.0	102.0	98.8	102	-	90.0
66	120	102.0	-	-	102.0	-	-	-	-
72		102.0	-	-	102.0	-	-	-	-
36		150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	129.0	102	102	90.0
48		150.0	132.0	90.0	148.0	110.0	102	102	90.0
54	126	102.0	102.0	90.0	102.0	101.0	102	-	90.0
60		102.0	102.0	90.0	102.0	92.8	-	-	90.0
66		102.0	-	-	102.0	-	-	-	-
72		102.0	-	-	102.0	-	-	-	-
36		150.0	-	-	150.0	-	102	-	-
42	132	150.0	-	-	150.0	-	102	-	-
48		102.0	-	-	102.0	-	102	-	-
54		102.0	-	-	102.0	-	102	-	-
60		102.0	-	-	102.0	-	-	-	-
66		102.0	-	-	102.0	-	-	-	-
36	138	150.0	-	-	150.0	-	102	-	-
42		150.0	-	-	150.0	-	102	-	-
48		102.0	-	-	102.0	-	102	-	-
54		102.0	-	-	102.0	-	-	-	-
60		102.0	-	-	102.0	-	-	-	-
36	144	150.0	-	-	150.0	-	102	-	-
42		102.0	-	-	102.0	-	102	-	-
48		102.0	-	-	102.0	-	-	-	-
54		102.0	-	-	102.0	-	-	-	-
60		102.0	-	-	102.0	-	-	-	-



NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

NOTE:
PARTS 39 40 41 43 ARE ALSO USED
AS SETTING BLOCK.

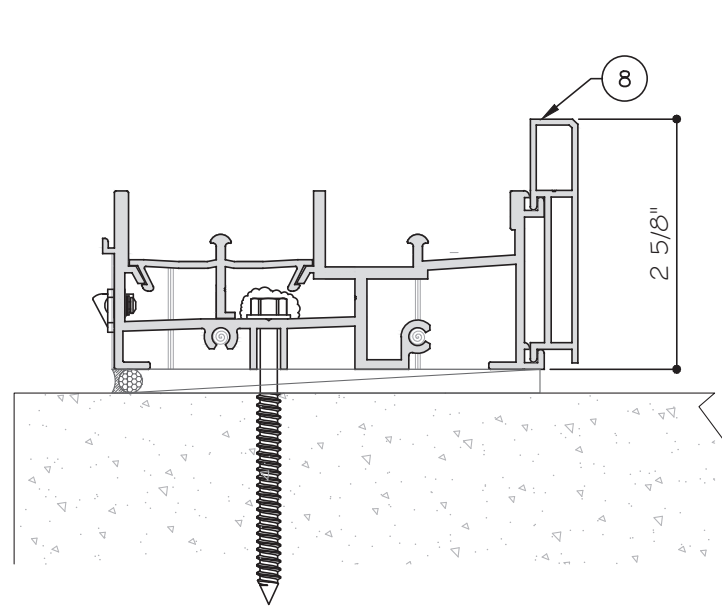


MCY ENGINEERING, INC.
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www.MCYEngineering.com mcy@mcyengineering.com

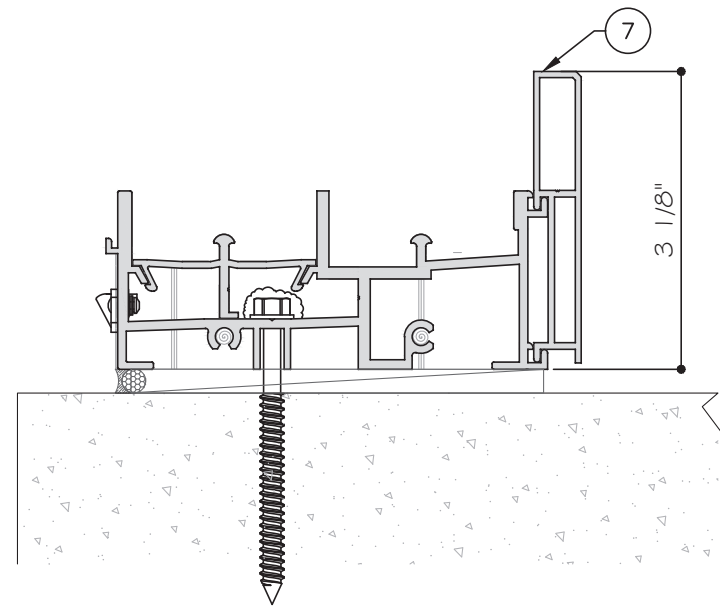
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

Drawn Date	Scale
12.04.2023	
DRAWING NO.	AD16-29
G1	
Sheet No.	14 OF 59

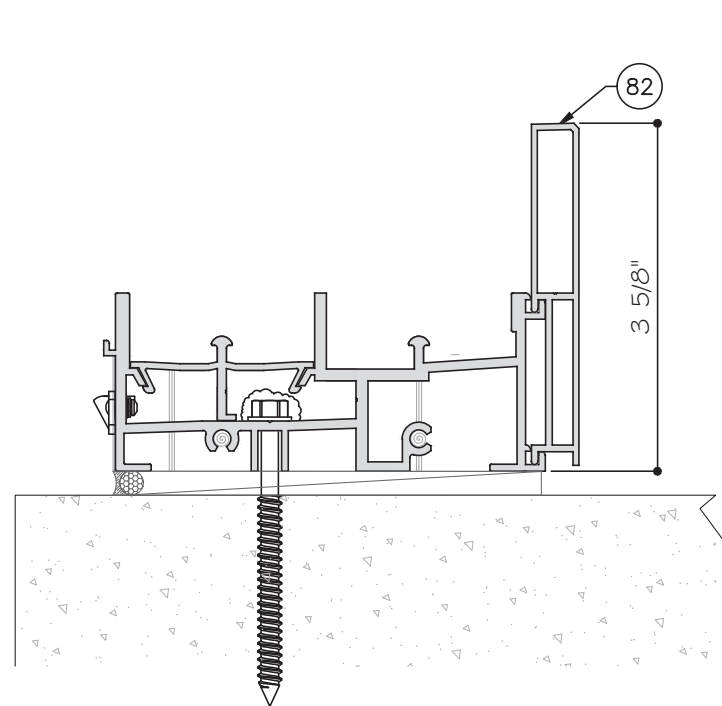
SILL RAISER OPTIONS (SHOWN ON 2 TRACK DOORS)
POSITIVE LOAD LIMITED AS FOLLOW DUE TO WATER INFILTRATION



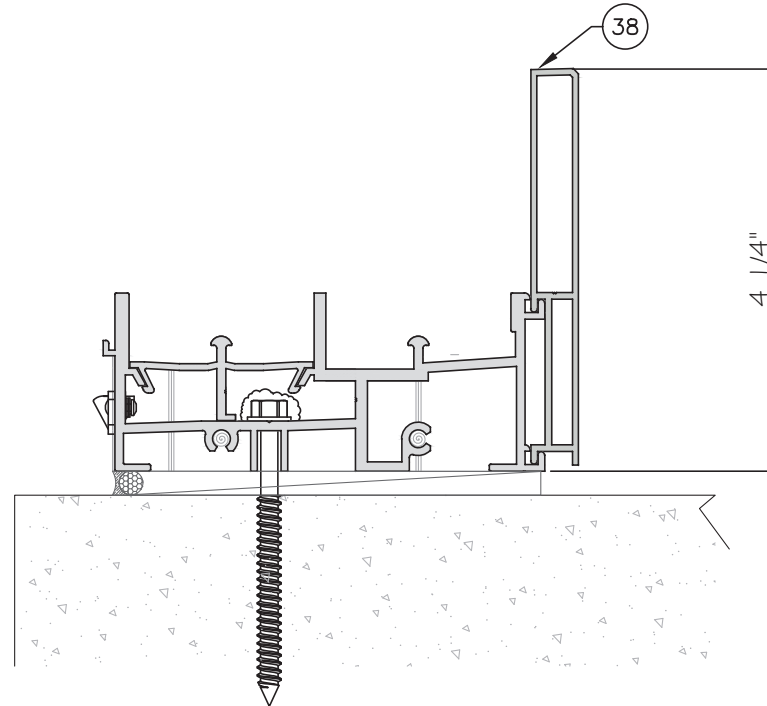
Pd MAX. = +53 PSF



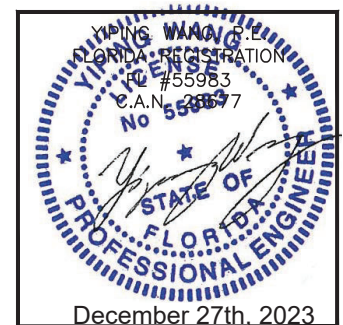
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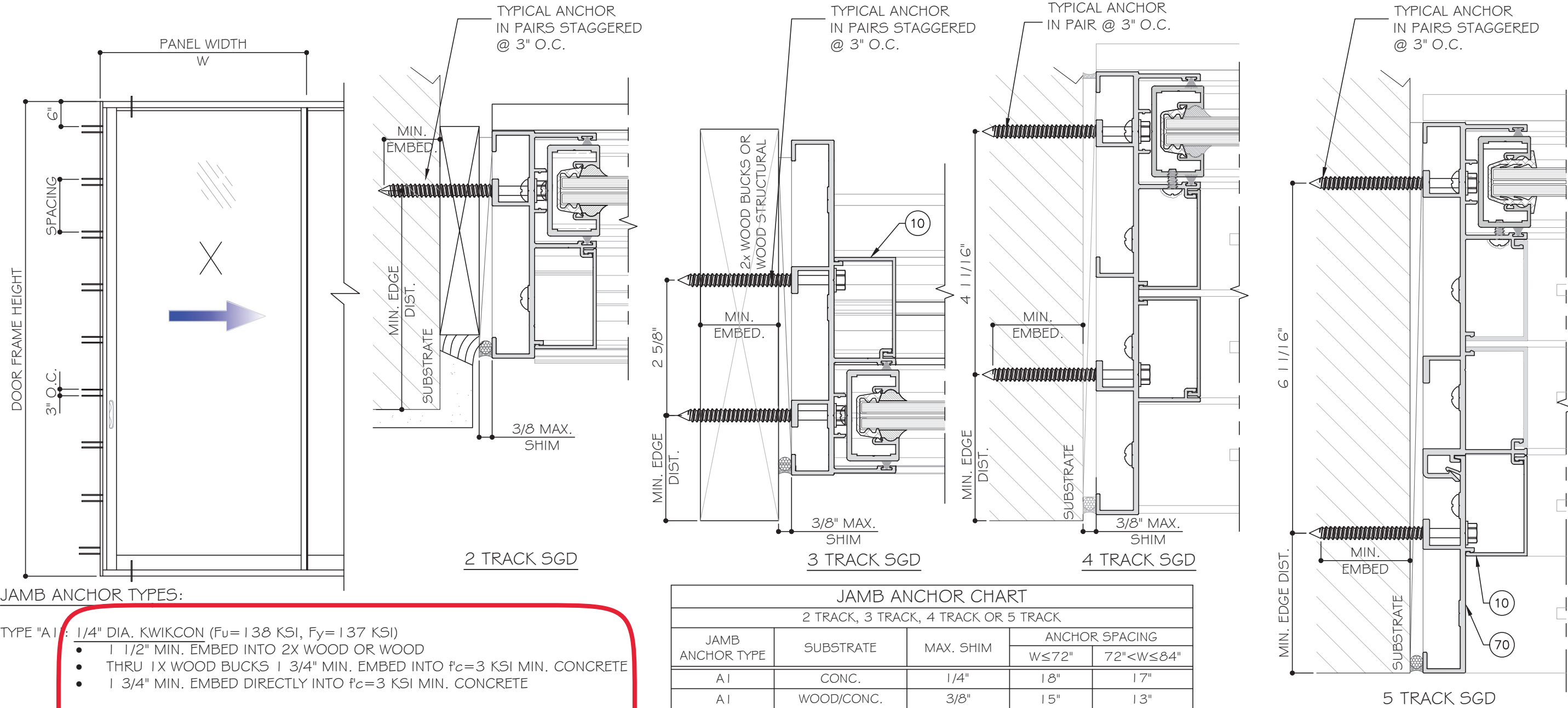
Pd MAX. = +80 PSF



Pd MAX. = +90 PSF



 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL. 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com					
ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)					
ES WINDOWS, INC. 10653 NE Quaybridge Ct. Miami, FL 33138 TEL. (305) 624-7775					
		R/S	12.04.2023	James	REVISION
Drawn Date			Scale	Rev. No.	Description
DRAWING NO.					
AD16-29					
K2					
Sheet No.					
16 OF 59					



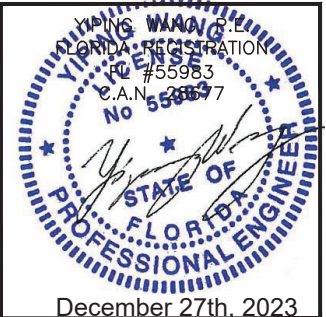
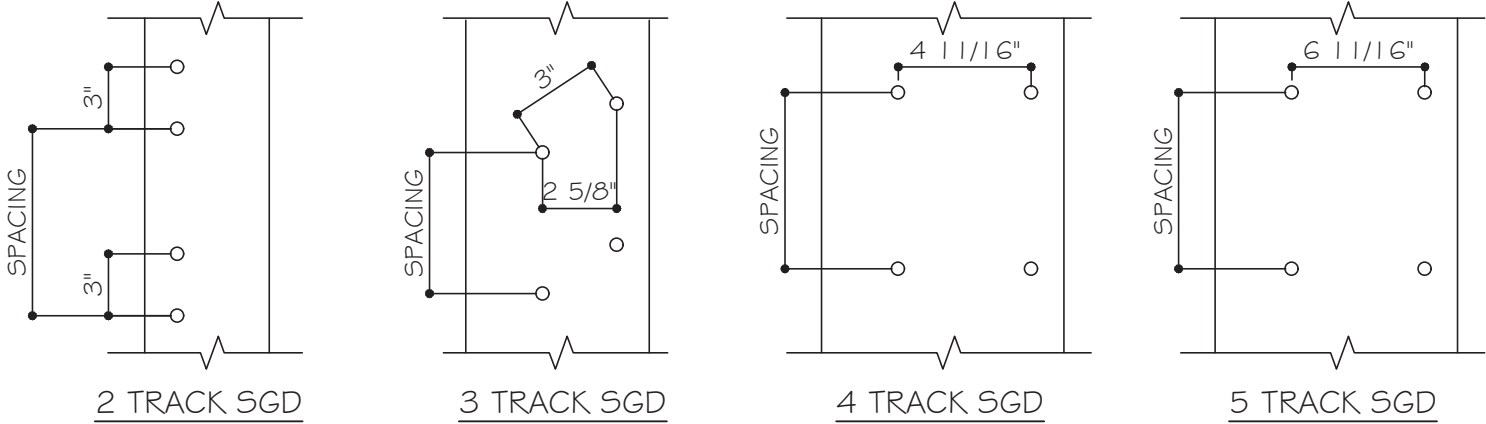
JAMB ANCHOR TYPES:

- TYPE "A1": 1/4" DIA. KWIKCON ($F_u=138$ KSI, $F_y=137$ KSI)
- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
 - THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO $f'_c=3$ KSI MIN. CONCRETE
 - 1 3/4" MIN. EMBED DIRECTLY INTO $f'_c=3$ KSI MIN. CONCRETE
- 1/4" DIA. KWIKCON ($F_u=138$ KSI, $F_y=137$ KSI)
- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
 - THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO $f'_c=3$ KSI MIN. CONCRETE
 - 1 3/4" MIN. EMBED DIRECTLY INTO $f'_c=3$ KSI MIN. CONCRETE
- TYPE "B1": 1/4" DIA. ULTRACON+ BY DEWALT($F_u=164$ KSI, $F_y=148$ KSI)
- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
 - THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO $f'_c=3$ KSI MIN. CONCRETE
 - 1 3/4" MIN. EMBED DIRECTLY INTO $f'_c=3$ KSI MIN. CONCRETE
- TYPE "C1": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI) INTO METAL STRUCTURE
- TYPE "D1": 5/16" TEKS/DRIL-FLEX SCREW ($F_u=120$ KSI, $F_y=92$ KSI) INTO METAL STRUCTURE
- ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y=36$ KSI, MIN.)
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE: CONCRETE 2 1/2" WOOD: 1" METAL: 1"

JAMB ANCHOR CHART				
2 TRACK, 3 TRACK, 4 TRACK OR 5 TRACK				
JAMB ANCHOR TYPE	SUBSTRATE	MAX. SHIM	ANCHOR SPACING	
			W≤72"	72"<W≤84"
A1	CONC.	1/4"	18"	17"
A1	WOOD/CONC.	3/8"	15"	13"
A1	WOOD/C90 BLOCK	3/8"	13"	11"
B1	CONC.	3/8"	18"	17"
B1	WOOD/CONC.	3/8"	13"	11"
C1	1/8" THK. METAL(6063-T5)	1/4"	18"	18"
C1		3/8"	13"	11"
D1		3/8"	18"	18"

NOTE:
WOOD BUCKS/ METAL STRUCTURES BY OTHERS
MUST BE PROPERLY SECURED TO SUPPORT
LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURES.



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ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

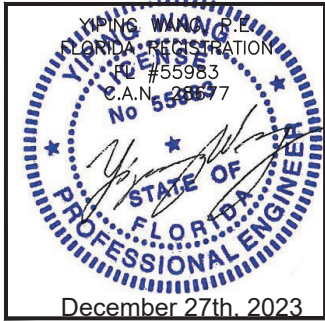
Drawn Date	12.04.2023	Scale	
DRAWING NO.	AD16-29		
Sheet No.	19 OF 59		

HEAD ANCHOR CAPACITY - PSF								
SGD PANEL SIZES		ANCHOR TYPE "A" OR "AA"				ANCHOR TYPE "B"		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	A4 AA4 +/-	A6 AA6 +/-	A8 AA8 +/-	A10 AA10 +/-	B4 +/-	B6 +/-	B8 +/-
36	84	132.4	150.0	150.0	150.0	150.0	150.0	150.0
42		118.9	150.0	150.0	150.0	150.0	150.0	150.0
48		109.2	150.0	150.0	150.0	140.0	150.0	150.0
54		102.2	150.0	150.0	150.0	131.0	150.0	150.0
60		97.1	145.6	150.0	150.0	124.4	150.0	150.0
66		93.4	140.1	150.0	150.0	119.8	150.0	150.0
72		91.0	136.5	150.0	150.0	116.7	150.0	150.0
78		89.6	134.4	150.0	150.0	114.9	150.0	150.0
84		89.1	133.7	150.0	150.0	114.3	150.0	150.0
36	90	121.3	150.0	150.0	150.0	150.0	150.0	150.0
42		108.5	150.0	150.0	150.0	139.1	150.0	150.0
48		99.3	148.9	150.0	150.0	127.3	150.0	150.0
54		92.4	138.7	150.0	150.0	118.5	150.0	150.0
60		87.4	131.0	150.0	150.0	112.0	150.0	150.0
66		93.6	125.4	150.0	150.0	107.2	150.0	150.0
72		80.9	121.3	150.0	150.0	103.7	150.0	150.0
78		79.1	118.6	150.0	150.0	101.4	150.0	150.0
84		78.0	117.0	150.0	150.0	100.0	150.0	150.0
36	96	112.0	150.0	150.0	150.0	143.6	150.0	150.0
42		99.8	149.8	150.0	150.0	128.0	150.0	150.0
48		91.0	136.5	150.0	150.0	116.7	150.0	150.0
54		84.4	126.6	150.0	150.0	108.2	150.0	150.0
60		79.4	119.1	150.0	150.0	101.8	150.0	150.0
66		75.6	113.5	150.0	150.0	97.0	145.5	150.0
72		82.8	109.2	145.6	150.0	93.3	140.0	150.0
78		70.7	106.1	141.5	150.0	90.7	136.0	150.0
84		69.3	104.0	138.7	150.0	88.9	133.3	150.0
36	102	104.0	150.0	150.0	150.0	133.3	150.0	150.0
42		92.4	138.7	150.0	150.0	118.5	150.0	150.0
48		84.0	126.0	150.0	150.0	107.7	150.0	150.0
54		77.7	116.5	150.0	150.0	99.6	149.3	150.0
60		72.8	109.2	145.6	150.0	93.3	140.0	150.0
66		69.1	103.6	138.1	150.0	88.5	132.8	150.0
72		66.2	99.3	132.4	150.0	84.8	127.3	150.0
78		64.0	96.0	128.0	150.0	82.1	123.1	150.0
84		62.4	93.6	124.8	150.0	80.0	120.0	150.0
36	108	97.1	145.6	150.0	150.0	124.4	150.0	150.0
42		86.1	129.1	150.0	150.0	110.3	150.0	150.0
48		78.0	117.0	150.0	150.0	100.0	150.0	150.0
54		71.9	107.9	143.8	150.0	92.2	138.3	150.0
60		67.2	100.8	134.4	150.0	86.2	129.2	150.0
66		63.5	95.3	127.1	150.0	81.5	122.2	150.0
72		60.7	91.0	121.3	150.0	77.8	116.7	150.0
78		58.4	87.7	116.9	146.1	74.9	112.4	149.8

HEAD ANCHOR CAPACITY - PSF								
SGD PANEL SIZES		ANCHOR TYPE "A" OR "AA"				ANCHOR TYPE "B"		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	A4 AA4 +/-	A6 AA6 +/-	A8 AA8 +/-	A10 AA10 +/-	B4 +/-	B6 +/-	B8 +/-
36	114	91.0	136.5	150.0	150.0	116.7	150.0	150.0
42		80.5	120.8	150.0	150.0	103.2	150.0	150.0
48		72.8	109.2	145.6	150.0	93.3	140.0	150.0
54		66.9	100.4	133.9	150.0	85.8	128.7	150.0
60		62.4	93.6	124.8	150.0	80.0	120.0	150.0
66		58.8	88.2	117.7	147.1	75.4	113.1	150.0
72		56.0	84.0	112.0	112.0	71.8	107.7	143.6
36	120	85.6	128.5	150.0	150.0	109.8	150.0	150.0
42		75.6	113.5	150.0	150.0	97.0	145.5	150.0
48		68.3	102.4	136.5	150.0	87.5	131.3	150.0
54		62.6	93.9	125.2	150.0	80.3	120.4	150.0
60		58.2	87.4	116.5	145.6	74.7	112.0	149.3
66		54.8	82.2	109.5	136.9	70.2	105.3	140.4
72		52.0	78.0	104.0	130.0	66.7	100.0	133.3
36	126	80.9	121.3	150.0	150.0	103.7	150.0	150.0
42		71.3	107.0	142.6	150.0	91.4	137.1	150.0
48		64.2	96.4	128.5	150.0	82.4	123.5	150.0
54		58.8	88.2	117.7	147.1	75.4	113.1	150.0
60		54.6	81.9	109.2	136.5	70.0	105.0	140.0
66		51.2	76.9	102.5	128.1	65.7	98.5	131.4
36	132	76.6	114.9	150.0	150.0	98.2	147.4	150.0
42		67.5	101.2	134.9	150.0	86.5	129.7	150.0
48		60.7	91.0	121.3	150.0	77.8	116.7	150.0
54		55.5	83.2	110.9	138.7	71.1	106.7	142.2
60		51.4	77.1	102.8	128.5	65.9	98.8	131.8
66		48.1	72.2	96.3	120.3	61.7	92.6	123.4
36	138	72.8	109.2	145.6	150.0	93.3	140.0	150.0
42		64.0	96.0	128.0	150.0	82.1	123.1	150.0
48		57.5	86.2	114.9	143.7	73.7	110.5	147.4
54		52.5	78.7	104.9	131.2	67.3	100.9	134.5
60		48.5	72.8	97.1	121.3	62.2	93.3	124.4
36	144	69.3	104.0	138.7	150.0	88.9	133.3	150.0
42		60.9	91.3	121.8	150.0	78.0	117.1	150.0
48		54.6	81.9	109.2	136.5	70.0	105.0	140.0
54		49.8	74.7	99.6	124.4	63.8	95.7	127.6
60		46.0	69.0	92.0	114.9	58.9	88.4	117.9

A4 OR AA4 - A CLUSTER OF (4) TYPE "A" OR "AA" ANCHORS AT HEAD
A6 OR AA6- A CLUSTER OF (6) TYPE "A" OR "AA" ANCHORS AT HEAD
A8 OR AA8- A CLUSTER OF (8) TYPE "A" OR "AA" ANCHORS AT HEAD
A10 OR AA10 - A CLUSTER OF (10) TYPE "A" OR "AA" ANCHORS AT HEAD
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT HEAD
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT HEAD
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT HEAD

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A6 & A7



MCY ENGINEERING, INC.

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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL: (305) 624-7775

Drawn Date

12.04.2023

Scale

DRAWING NO.

AD16-29

A1

Sheet No.

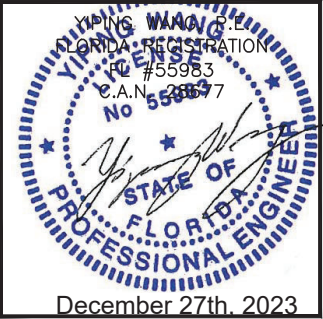
21 OF 59

SILL ANCHOR CAPACITY - PSF				
SGD PANEL SIZES		ANCHOR TYPE "A" / "B"		
AVE. PANEL WIDTH	DOOR HEIGHT	A4 / B4	A6 / B6	A8 / B8
(IN)	(IN)	+/-	+/-	+/-
36	84	150.0	150.0	150.0
42		150.0	150.0	150.0
48		146.8	150.0	150.0
54		137.4	150.0	150.0
60		130.5	150.0	150.0
66		125.6	150.0	150.0
72		122.3	150.0	150.0
78		120.5	150.0	150.0
84		119.8	150.0	150.0
36	90	150.0	150.0	150.0
42		145.9	150.0	150.0
48		133.5	150.0	150.0
54		124.3	150.0	150.0
60		117.4	150.0	150.0
66		112.4	150.0	150.0
72		108.7	150.0	150.0
78		106.3	150.0	150.0
84		104.9	150.0	150.0
36	96	150.0	150.0	150.0
42		134.2	150.0	150.0
48		122.3	150.0	150.0
54		113.5	150.0	150.0
60		106.8	150.0	150.0
66		101.7	150.0	150.0
72		97.9	146.8	150.0
78		95.1	142.6	150.0
84		93.2	139.8	150.0
36	102	139.8	150.0	150.0
42		124.3	150.0	150.0
48		112.9	150.0	150.0
54		104.4	150.0	150.0
60		97.9	146.8	150.0
66		92.8	139.3	150.0
72		89.0	133.5	150.0
78		86.0	129.1	150.0
84		83.9	125.8	150.0
36	108	130.5	150.0	150.0
42		115.7	150.0	150.0
48		104.9	150.0	150.0
54		96.7	145.0	150.0
60		90.3	135.5	150.0
66		85.4	128.1	150.0
72		81.6	122.3	150.0
78		78.6	117.8	150.0

SILL ANCHOR CAPACITY - PSF				
SGD PANEL SIZES		ANCHOR TYPE "A" / "B"		
AVE. PANEL WIDTH	DOOR HEIGHT	A4 / B4	A6 / B6	A8 / B8
(IN)	(IN)	+/-	+/-	+/-
36	114	122.3	150.0	150.0
42		108.2	150.0	150.0
48		97.9	146.8	150.0
54		90.0	135.0	150.0
60		83.9	125.8	150.0
66		79.1	118.6	150.0
72		75.3	112.9	150.0
36	120	115.	150.0	150.0
42		101.7	150.0	150.0
48		91.8	137.6	150.0
54		84.2	126.3	150.0
60		78.3	117.4	150.0
66		73.6	110.4	147.3
72		69.9	104.9	139.8
36	126	108.7	150.0	150.0
42		95.9	143.8	150.0
48		86.4	129.5	150.0
54		79.1	118.6	150.0
60		73.4	110.1	146.8
66		68.9	103.3	137.8
72		65.2	97.9	130.5
36	132	103.0	150.0	150.0
42		90.7	136.0	150.0
48		81.6	122.3	150.0
54		74.6	111.8	149.1
60		69.1	103.6	138.2
66		64.7	97.1	129.4
72		61.8	92.7	123.6
36	138	97.9	146.8	150.0
42		86.0	129.1	150.0
48		77.3	115.9	150.0
54		70.5	105.8	141.1
60		65.2	97.9	130.5
66		61.8	92.7	123.6
72		58.4	88.3	117.4
78		55.0	84.0	113.0
84		51.7	79.7	108.7
36	144	93.2	139.8	150.0
42		81.8	122.8	150.0
48		73.4	110.1	146.8
54		66.9	100.4	133.8
60		61.8	92.7	123.6
66		58.4	88.3	117.4
72		55.0	84.0	113.0
78		51.7	79.7	108.7
84		48.4	75.4	104.4

A4 - A CLUSTER OF (4) TYPE "A" ANCHORS AT SILL
A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT SILL
A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT SILL
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT SILL
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT SILL
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT SILL

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A8



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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Miami, FL 33138

TEL. (305) 624-7775

Drawn Date

12.04.2023

Scale

DRAWING NO.

AD16-29

Sheet No.

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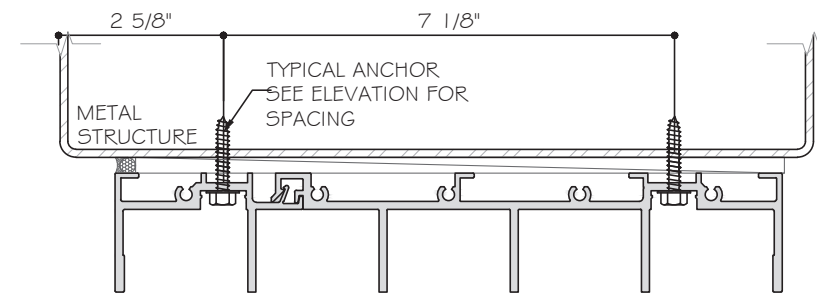
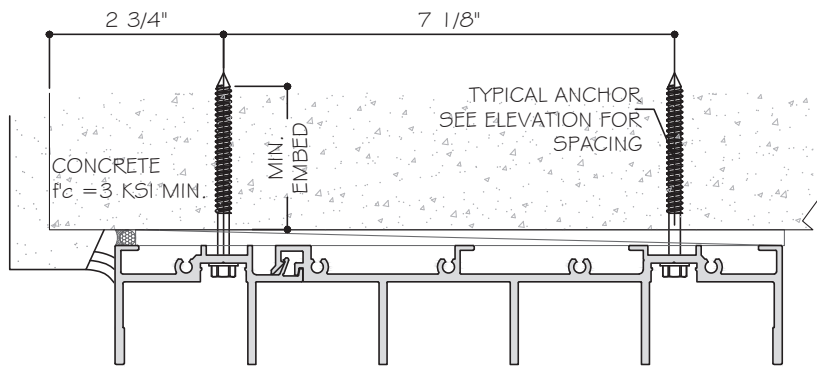
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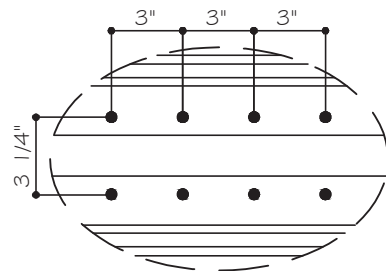
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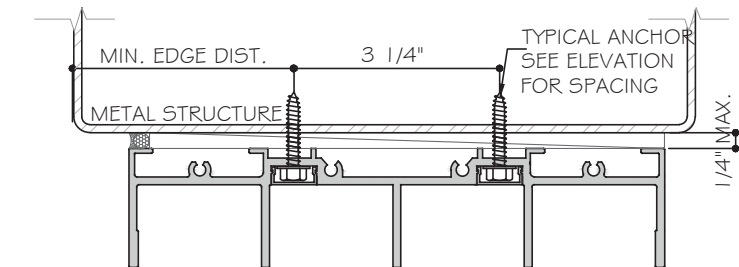
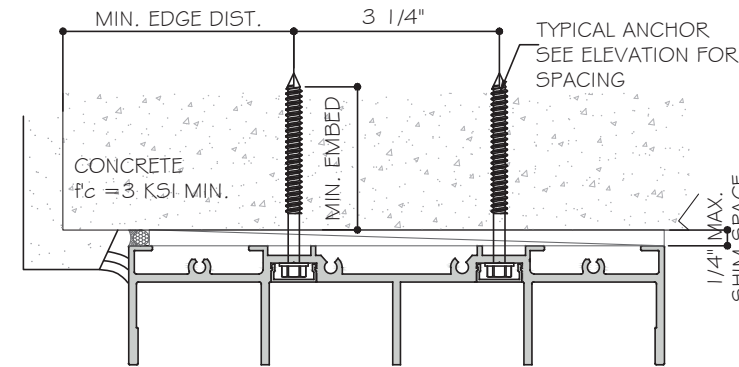
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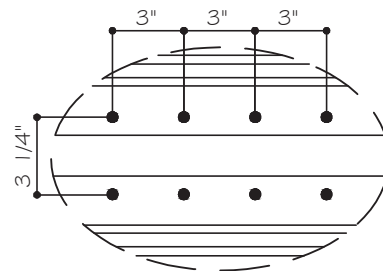
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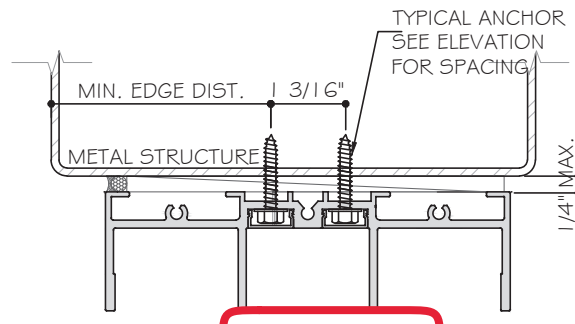
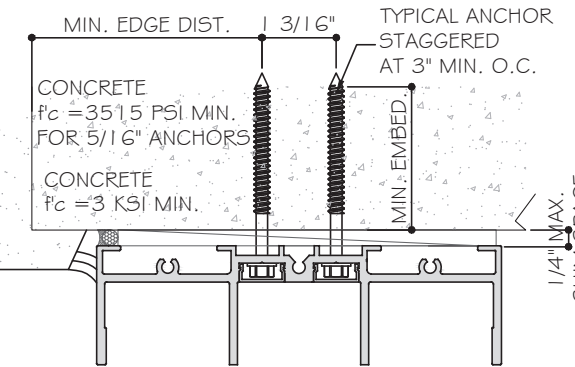
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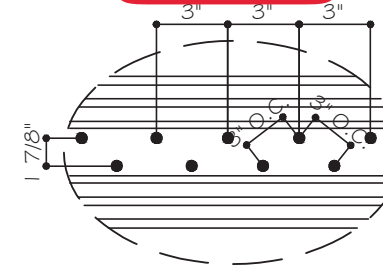
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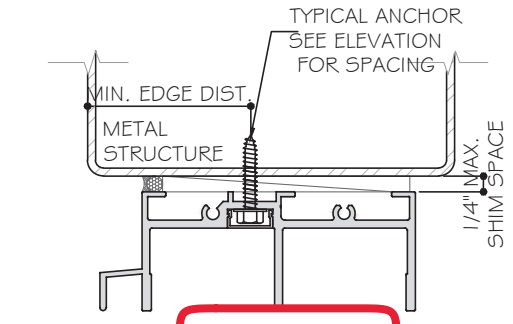
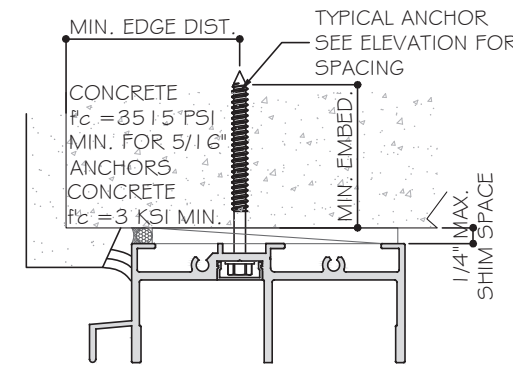
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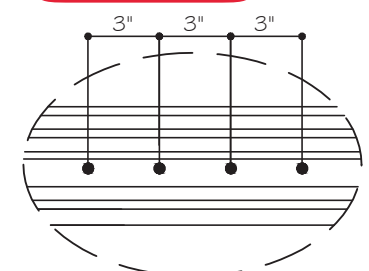
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3 TRACK SGD



2 TRACK SGD



2 TRACK SGD

HEAD ANCHOR TYPES:

TYPE "A": 1/4" DIA. KWIKCON ($F_u=138$ KSI, $F_y=137$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "B": 1/4" DIA. ULTRAICON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "C": 5/16" DIA. ULTRAICON BY DEWALT ($F_u=177$ KSI, $F_y=155$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3515$ PSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "D": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI)
INTO METAL STRUCTURE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y=36$ KSI, MIN.)

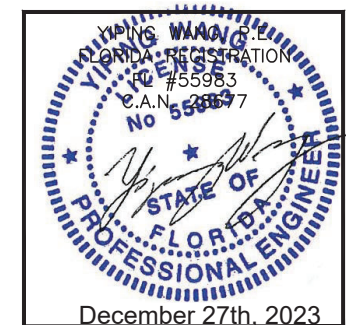
TYPE "E": 5/16" TEKS/DRIL-FLEX SCREW ($F_u=120$ KSI, $F_y=92$ KSI)
INTO METAL STRUCTURE
(3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y=36$ KSI, MIN.)

STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

A4 - A CLUSTER OF (4) TYPE "A" ANCHORS AT HEAD
A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT HEAD
A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT HEAD
A10 - A CLUSTER OF (10) TYPE "A" ANCHORS AT HEAD
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT HEAD
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT HEAD
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT HEAD

NOTE:
WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY
SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURES.

C4 - A CLUSTER OF (4) TYPE "C" ANCHORS AT HEAD
C6 - A CLUSTER OF (6) TYPE "C" ANCHORS AT HEAD
D4 - A CLUSTER OF (4) TYPE "D" ANCHORS AT HEAD
D6 - A CLUSTER OF (6) TYPE "D" ANCHORS AT HEAD
D8 - A CLUSTER OF (8) TYPE "D" ANCHORS AT HEAD
E4 - A CLUSTER OF (4) TYPE "E" ANCHORS AT HEAD
E6 - A CLUSTER OF (6) TYPE "E" ANCHORS AT HEAD



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No.	Rev.	Date	Drawn By	Description
1		12.04.2023	James	

Drawn Date: 12.04.2023

Scale:

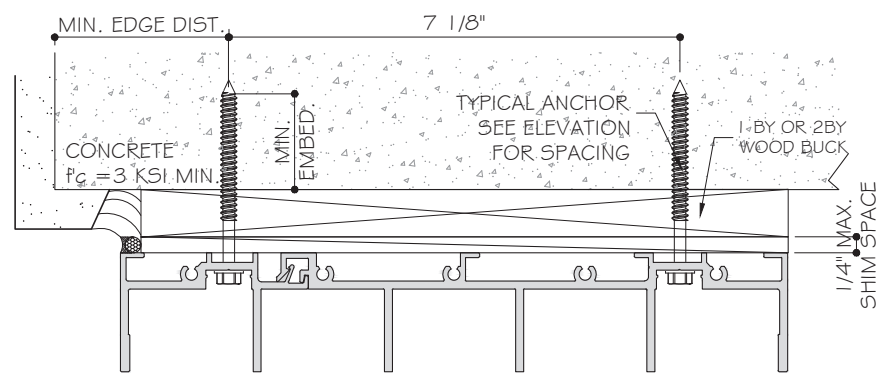
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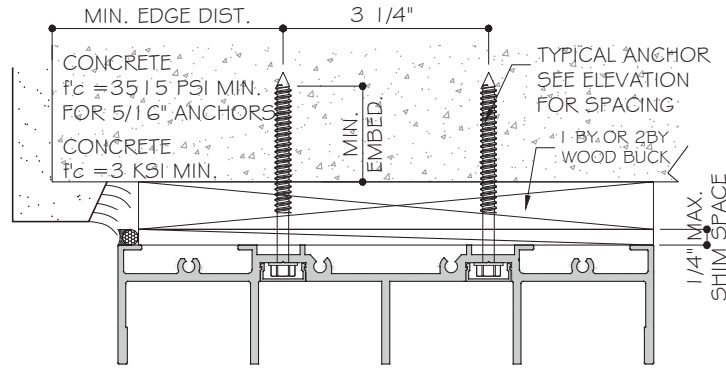
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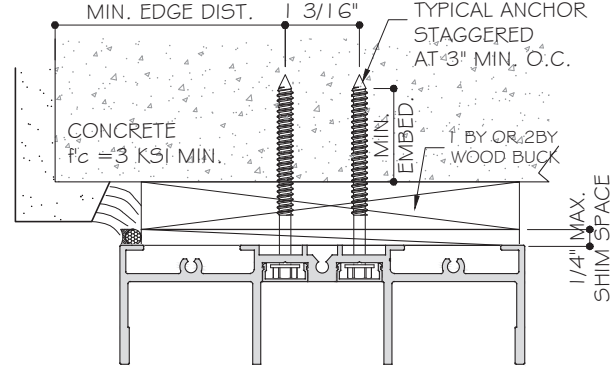
26 OF 59



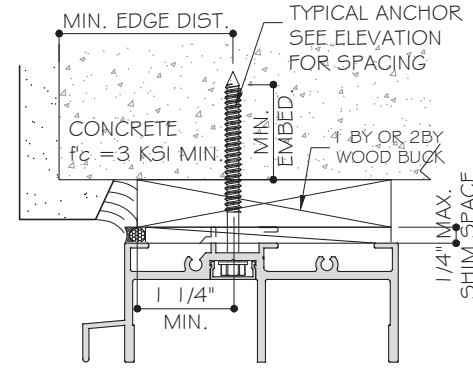
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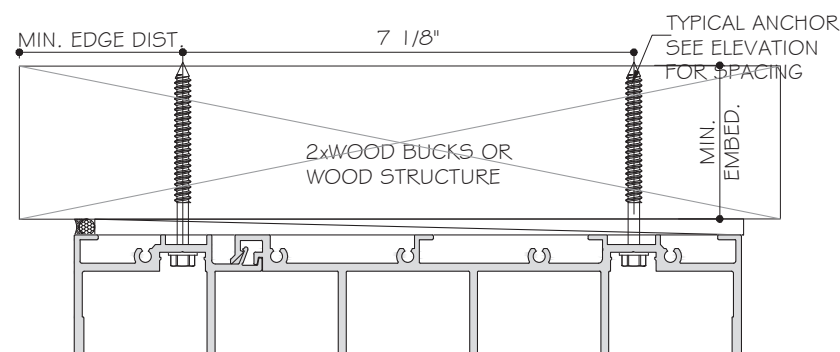
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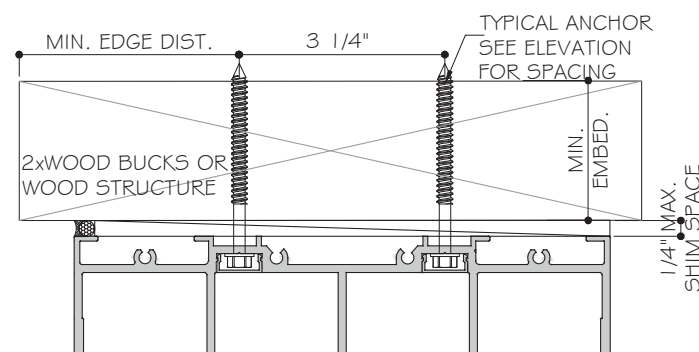
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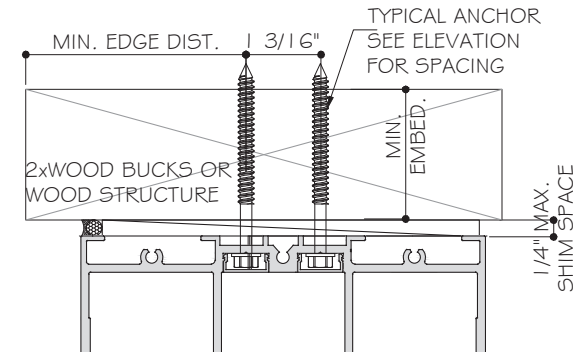
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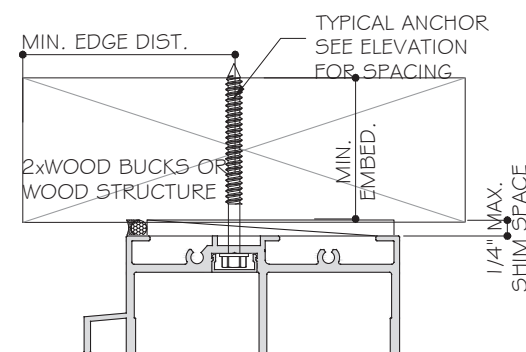
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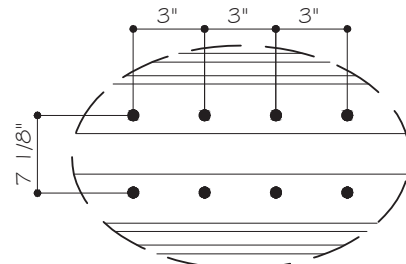
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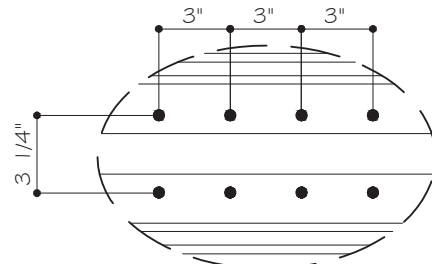
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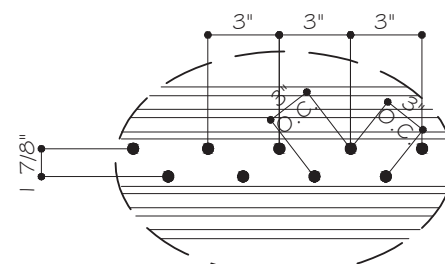
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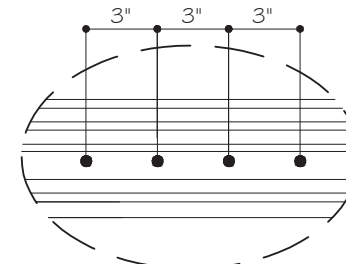
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HEAD ANCHOR TYPES:

TYPE "AA": 1/4" DIA. KWIKCON ($F_u = 138$ KSI, $F_y = 137$ KSI)
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
SG=0.55 MIN.
OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
INTO $f'_c = 3000$ PSI CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

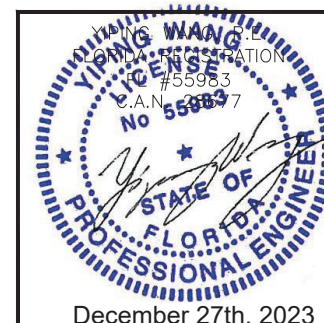
TYPE "BB": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
SG=0.55 MIN.
OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
INTO $f'_c = 3000$ PSI CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "CC": 5/16" DIA. ULTRACON BY DEWALT ($F_u = 177$ KSI, $F_y = 155$ KSI)
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
SG=0.55 MIN.
OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
INTO $f'_c = 3515$ PSI CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

AA4 - A CLUSTER OF (4) TYPE "AA" ANCHORS AT HEAD
AA6 - A CLUSTER OF (6) TYPE "AA" ANCHORS AT HEAD
AA8 - A CLUSTER OF (8) TYPE "AA" ANCHORS AT HEAD
AA10 - A CLUSTER OF (10) TYPE "AA" ANCHORS AT HEAD
BB4 - A CLUSTER OF (4) TYPE "BB" ANCHORS AT HEAD
BB6 - A CLUSTER OF (6) TYPE "BB" ANCHORS AT HEAD
BB8 - A CLUSTER OF (8) TYPE "BB" ANCHORS AT HEAD
BB10 - A CLUSTER OF (10) TYPE "BB" ANCHORS AT HEAD
CC4 - A CLUSTER OF (4) TYPE "CC" ANCHORS AT HEAD
CC6 - A CLUSTER OF (6) TYPE "CC" ANCHORS AT HEAD
CC8 - A CLUSTER OF (8) TYPE "CC" ANCHORS AT HEAD
CC10 - A CLUSTER OF (10) TYPE "CC" ANCHORS AT HEAD

NOTE:

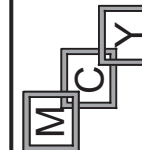
WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY
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Rev.	Date	Drawn By	Description
1	12.04.2023	James	REVISION
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Drawn Date
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Scale

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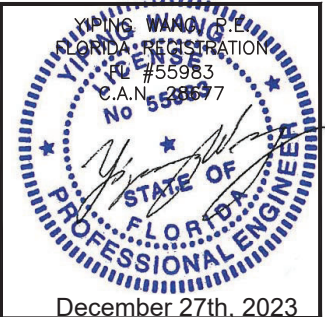
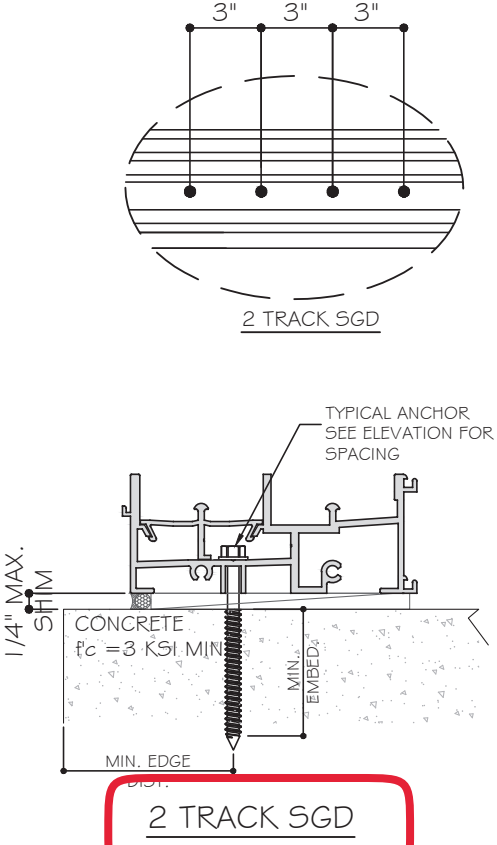
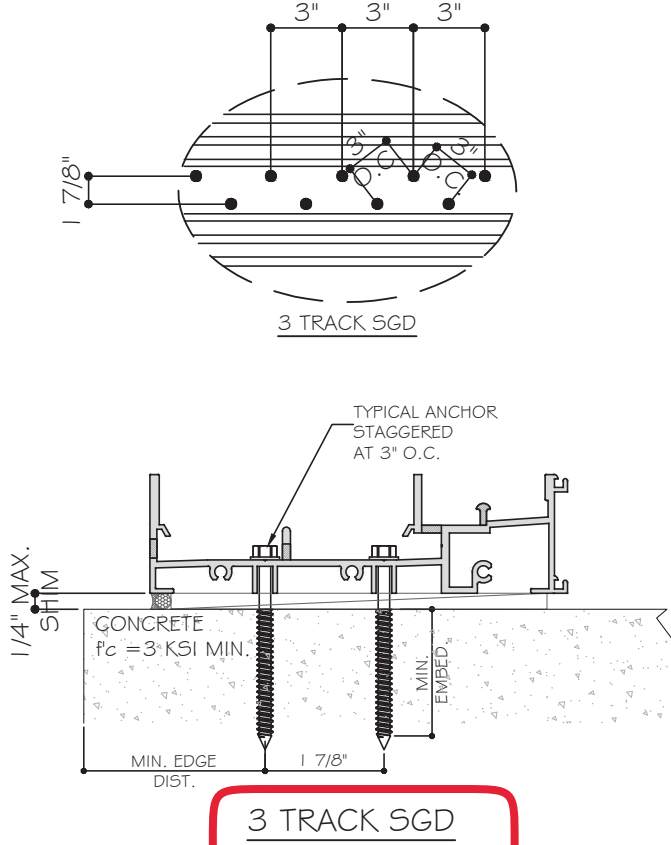
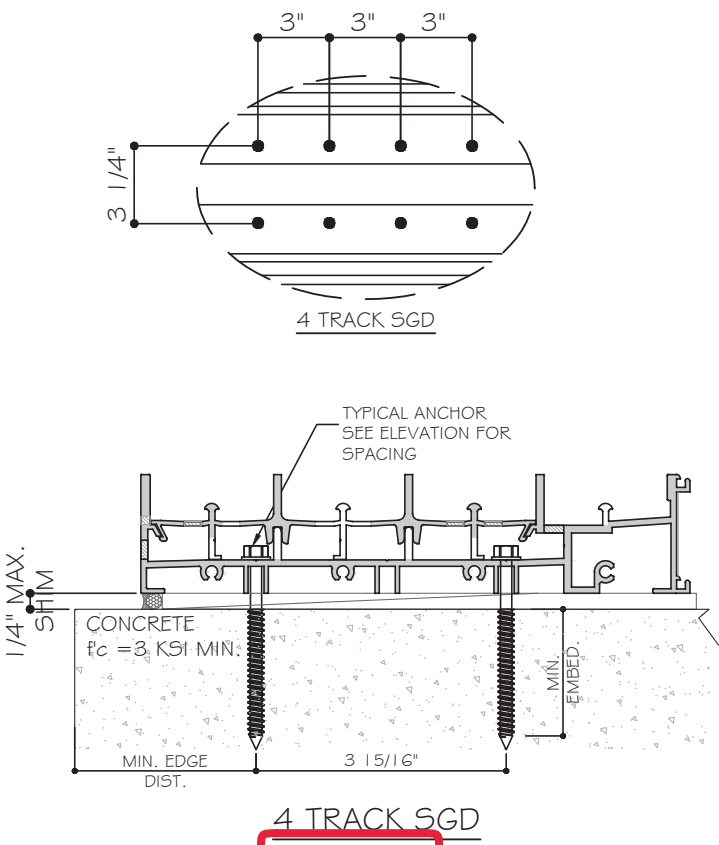
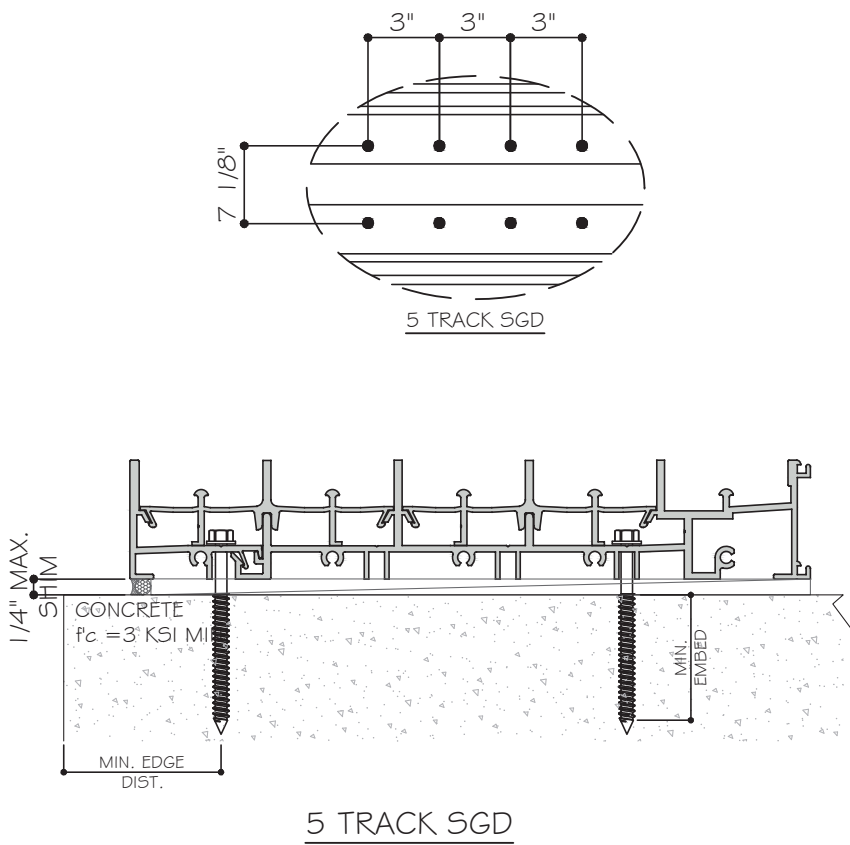
Sheet No.

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SILL ANCHOR TYPES:

TYPE "A": 1/4" DIA. KWIKCON ($F_u=138$ KSI, $F_y=137$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "B": 1/4" DIA. ULTRACON+ ($F_u=164$ KSI, $F_y=148$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.



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M

C

Y

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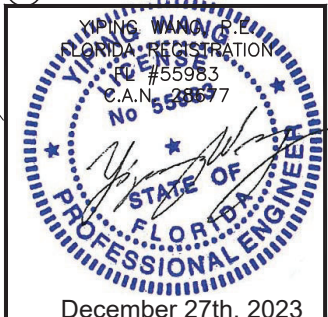
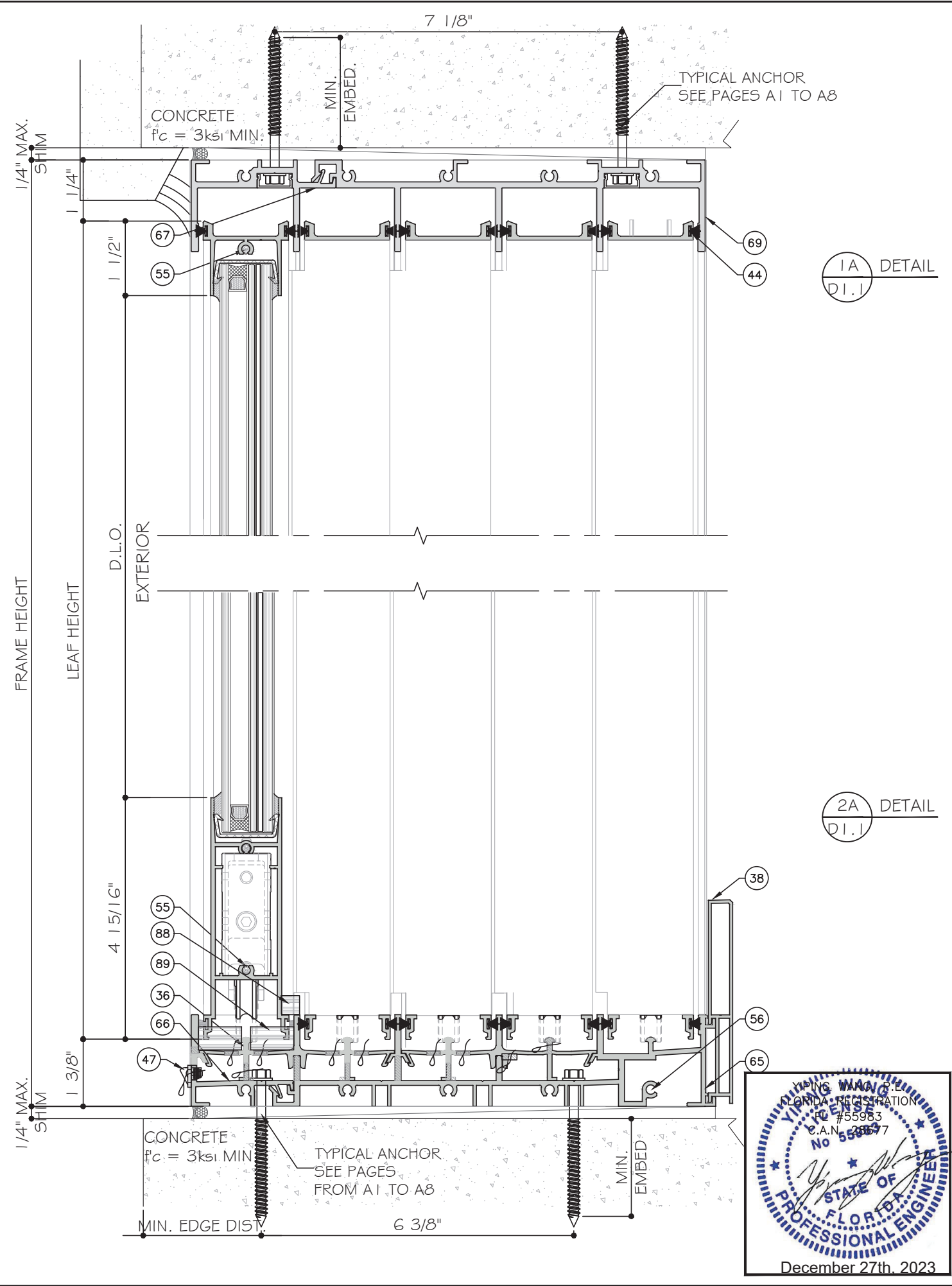
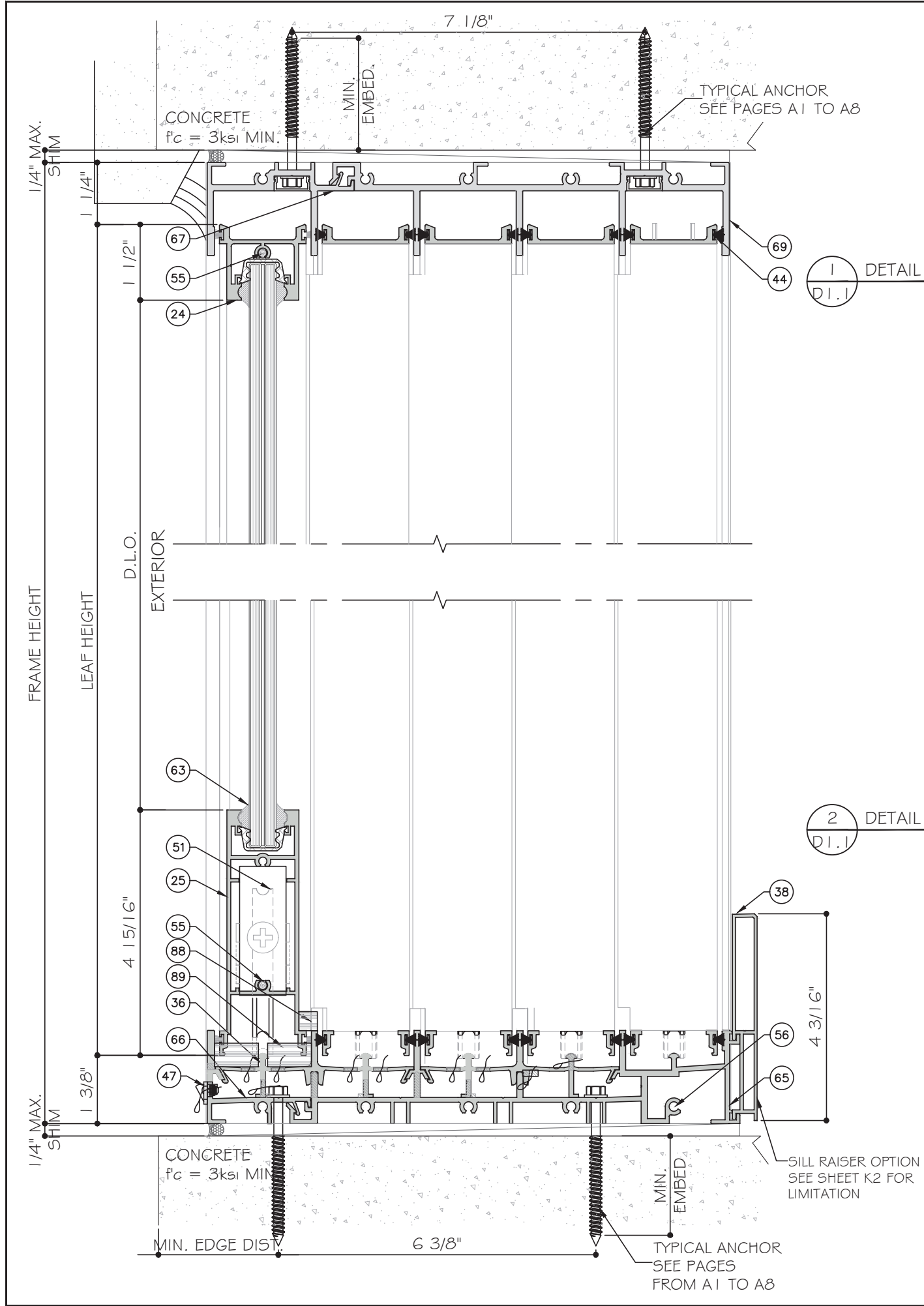
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AD16-29

A8

Sheet No.
28 OF 59



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Drawn Date
12.04.2023

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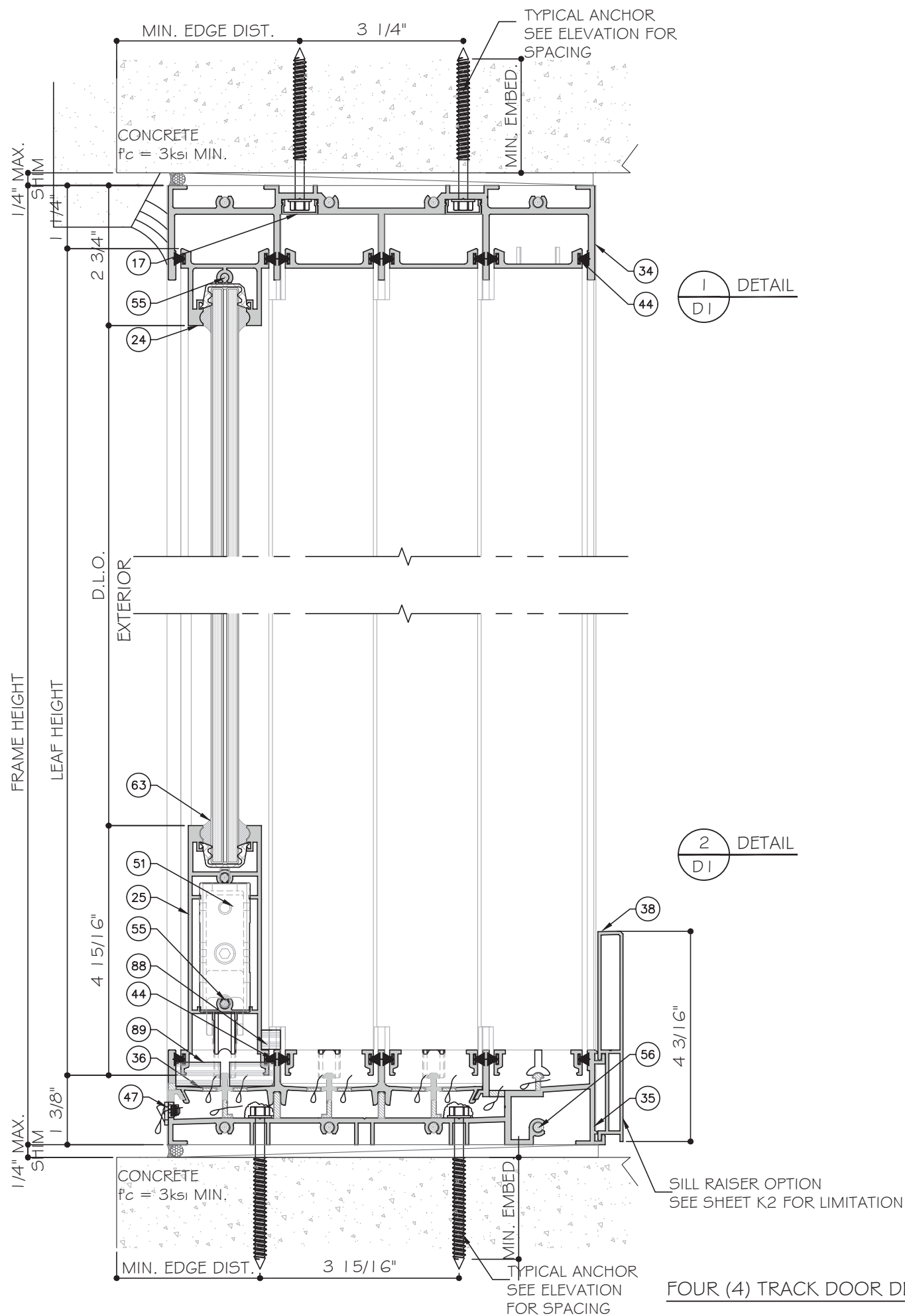
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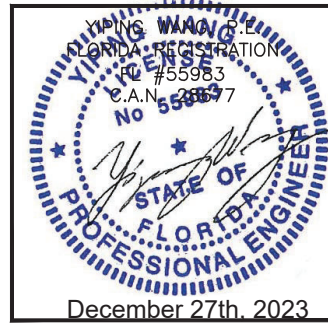
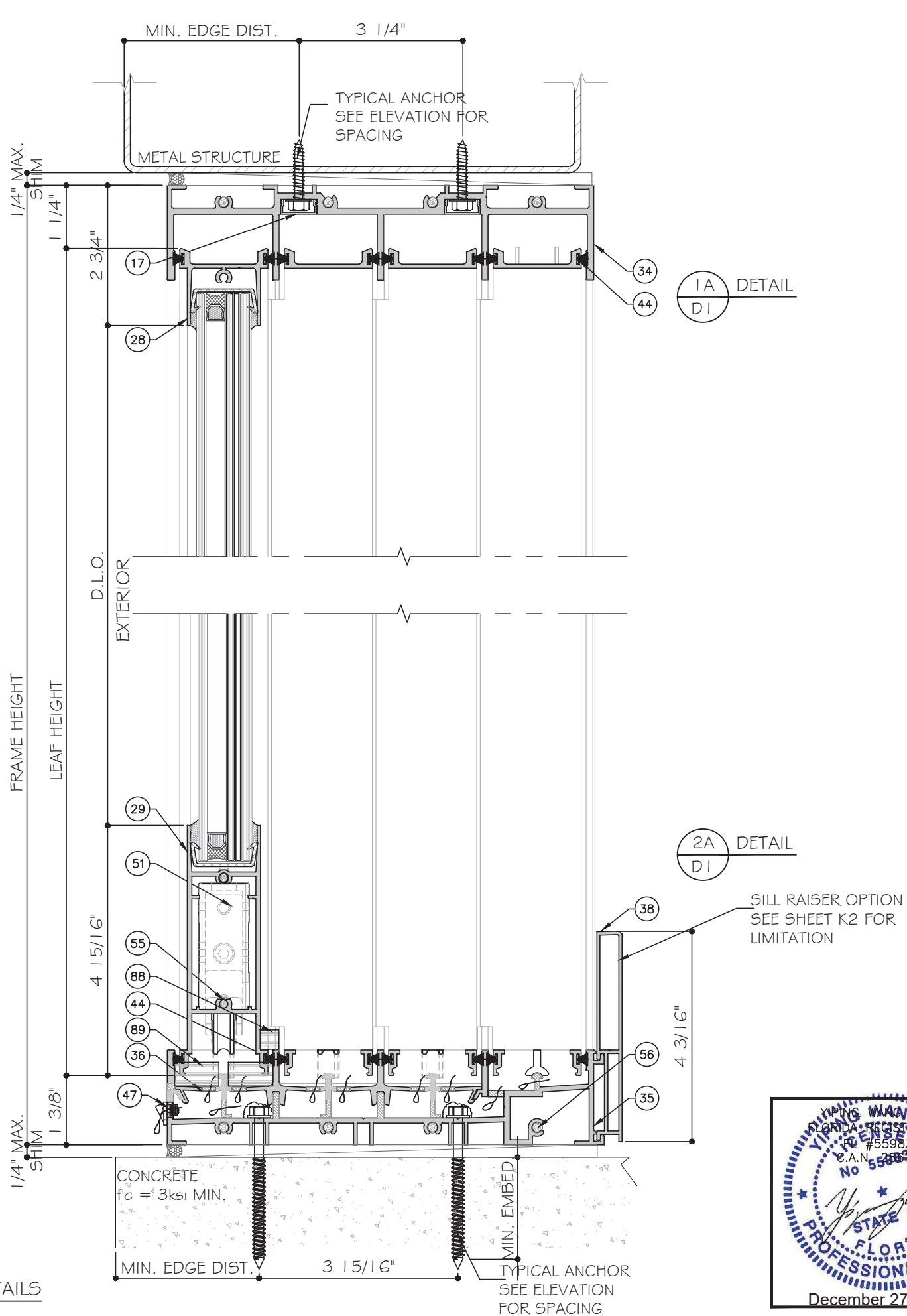
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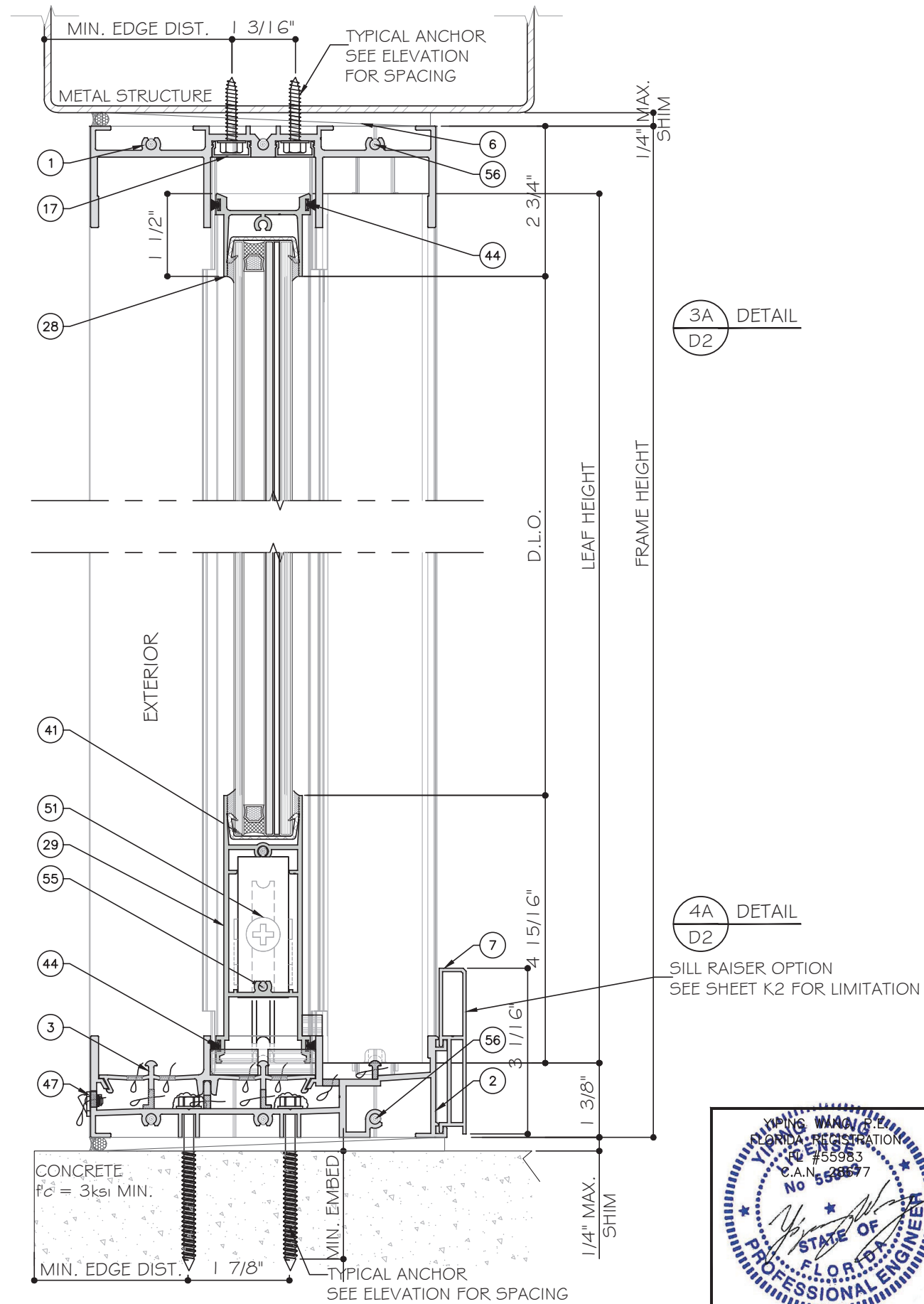
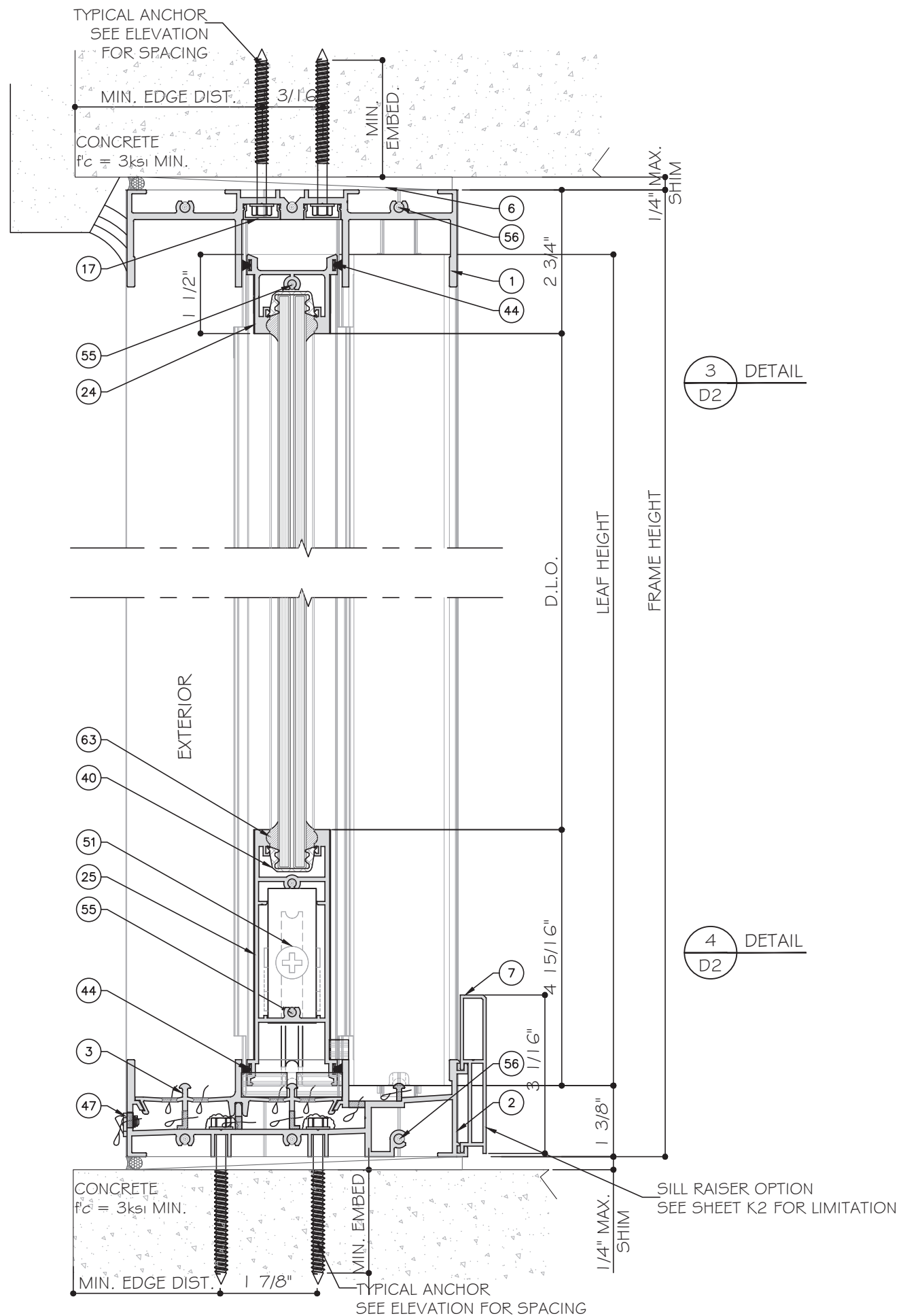
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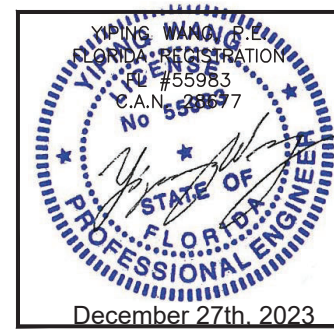
FOUR (4) TRACK DOOR DETAILS



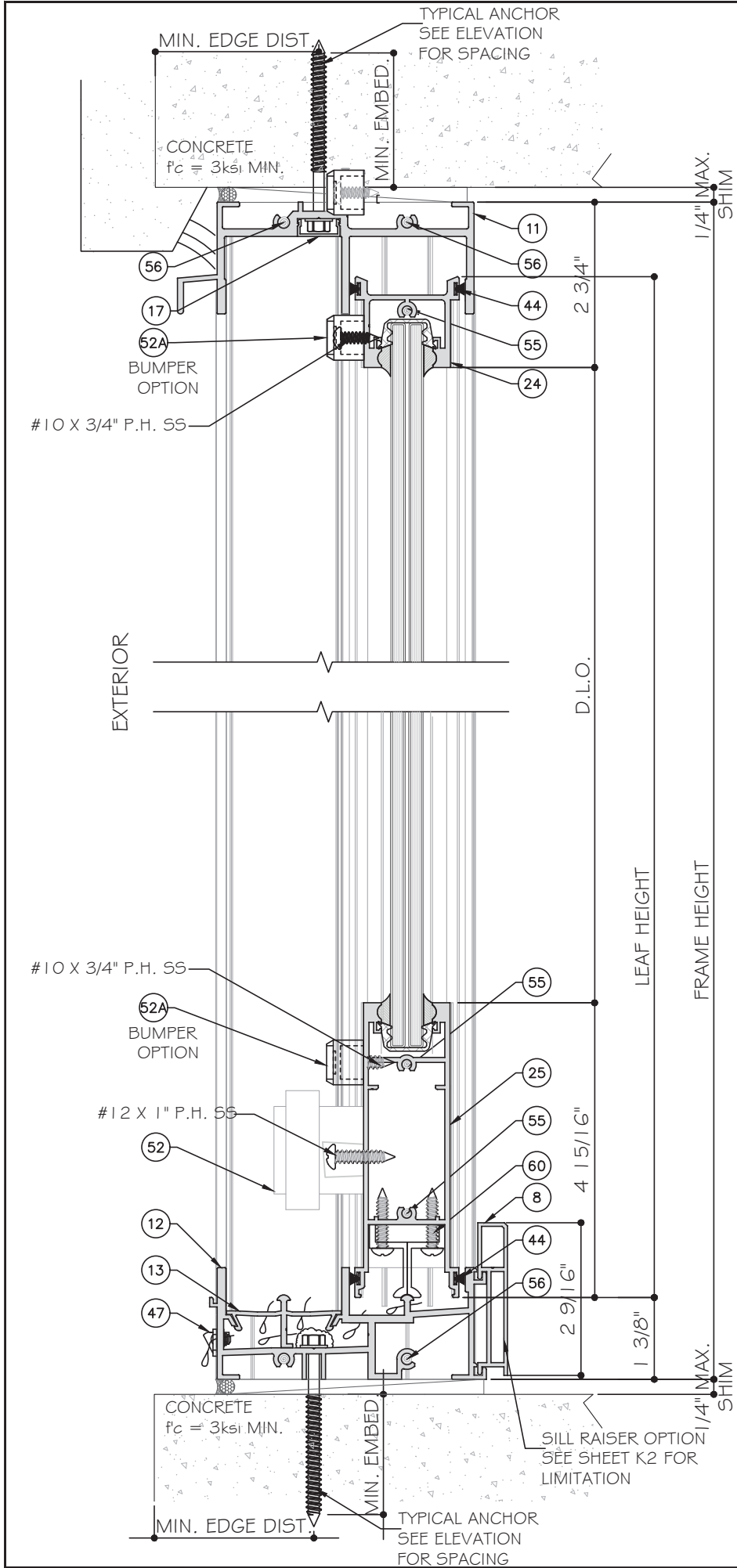
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THREE (3) TRACK DOOR DETAILS



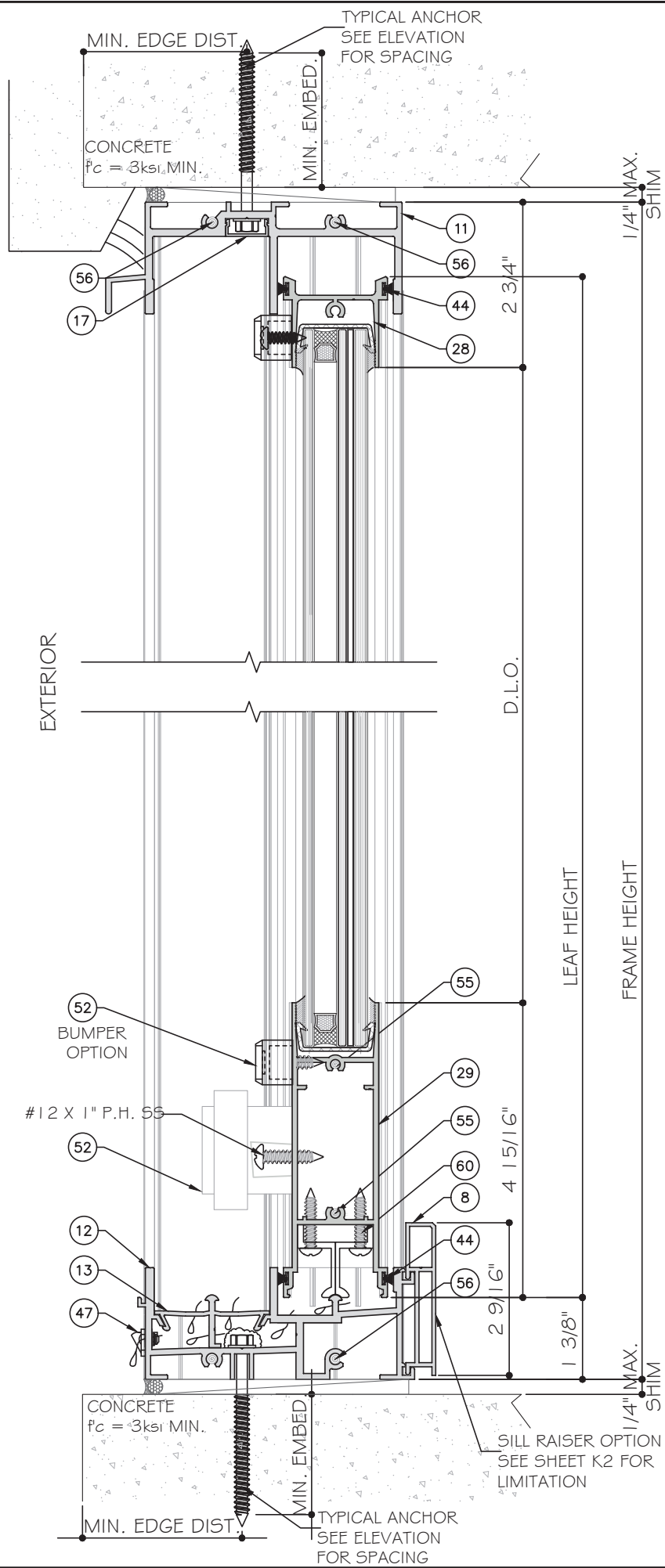
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Drawn Date 12.04.2023	Scale 1/4" = 1'-0"	Revision 1 12.04.2023 James Drawn By	Description SILL RAISER OPTION SEE SHEET K2 FOR LIMITATION
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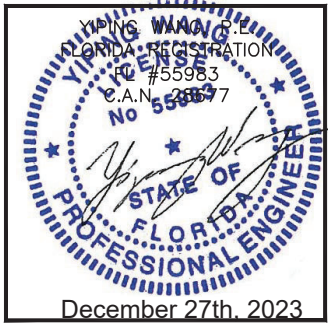
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TWO (2) TRACK DOOR DETAILS



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DETAIL



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12.04.2023

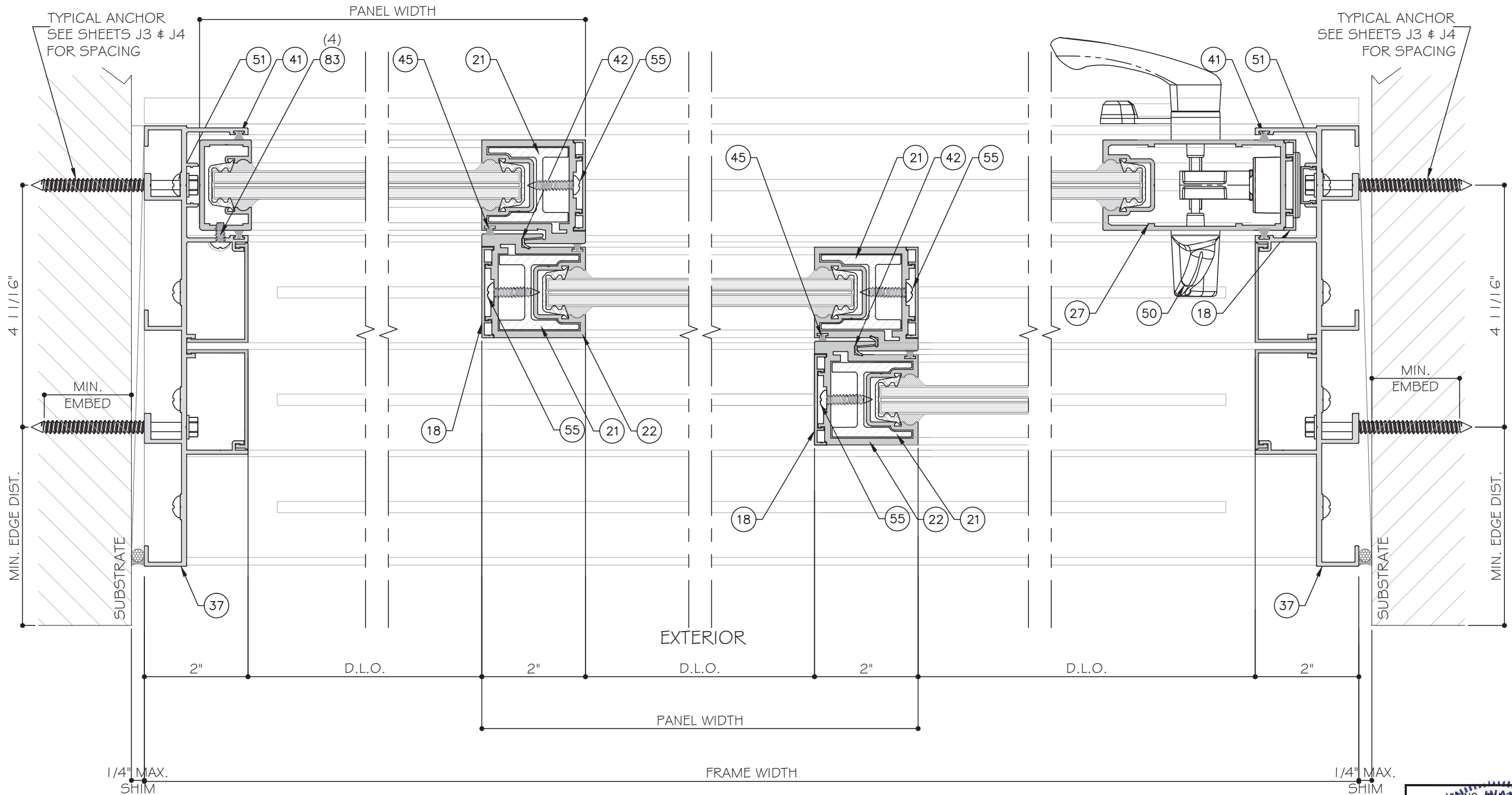
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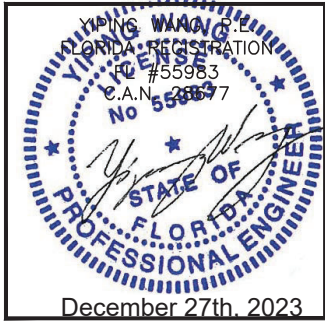
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FOUR (4) TRACK DOOR DETAILS



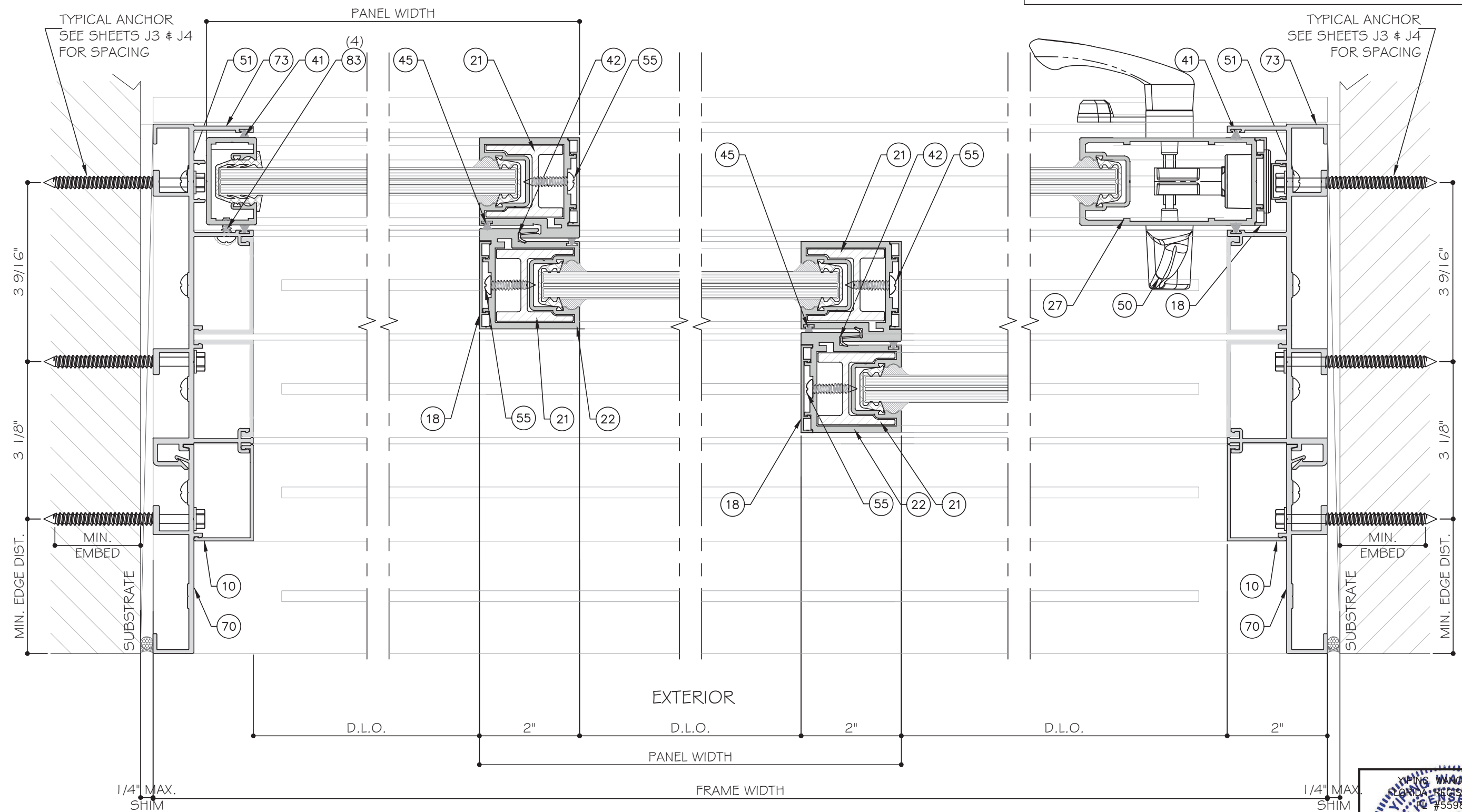
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SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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Description			



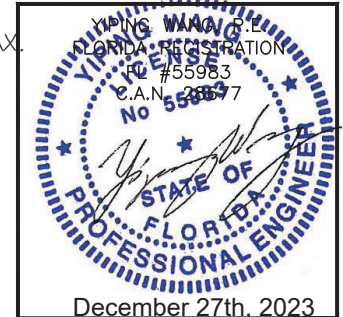
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DETAIL

7A
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FIVE (5) TRACK DOOR DETAILS



STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
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LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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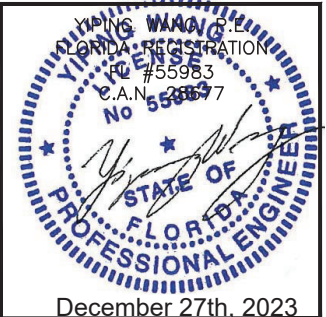
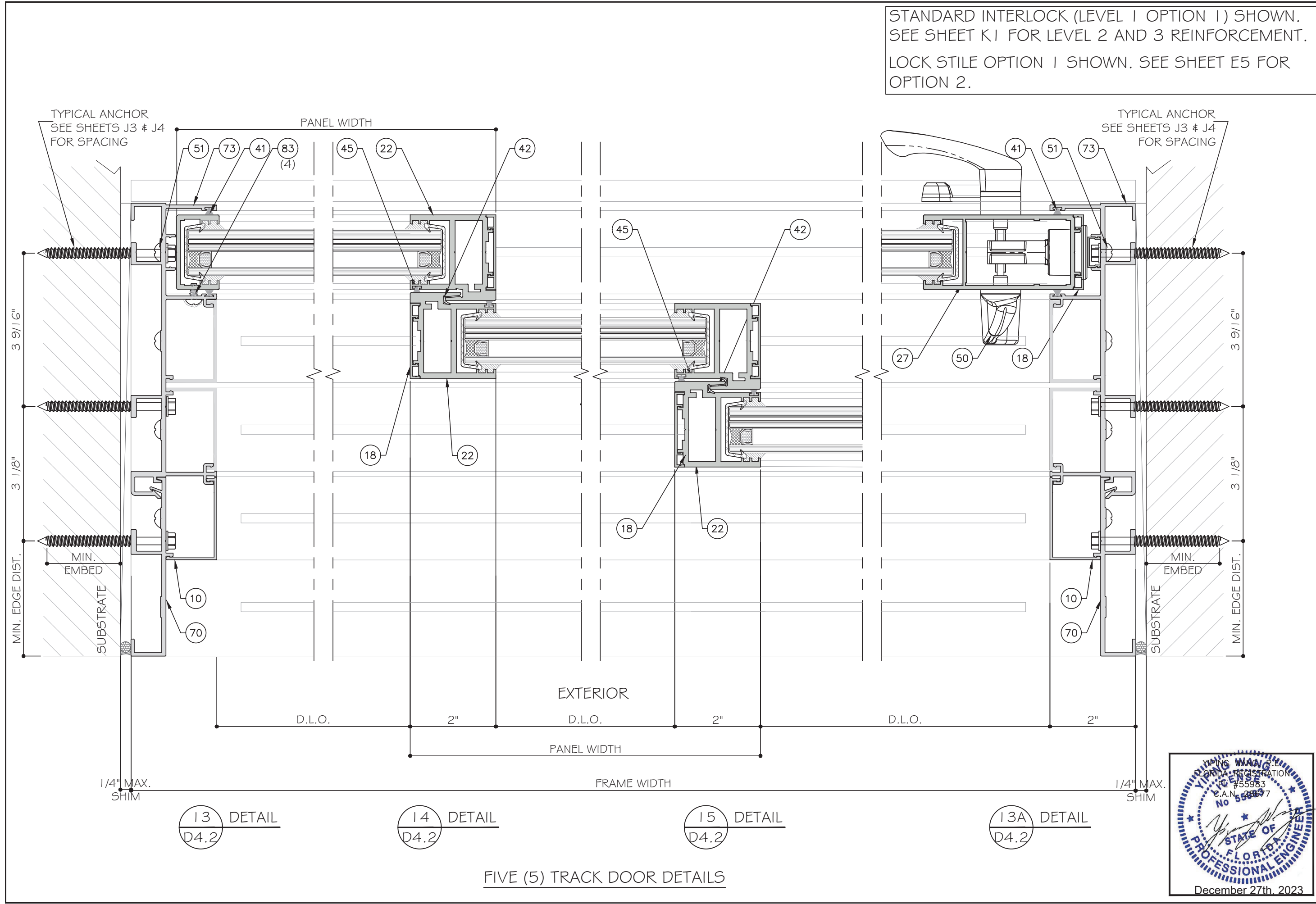
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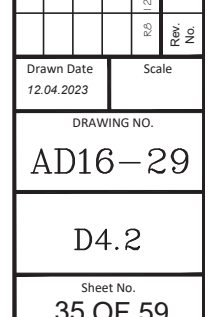
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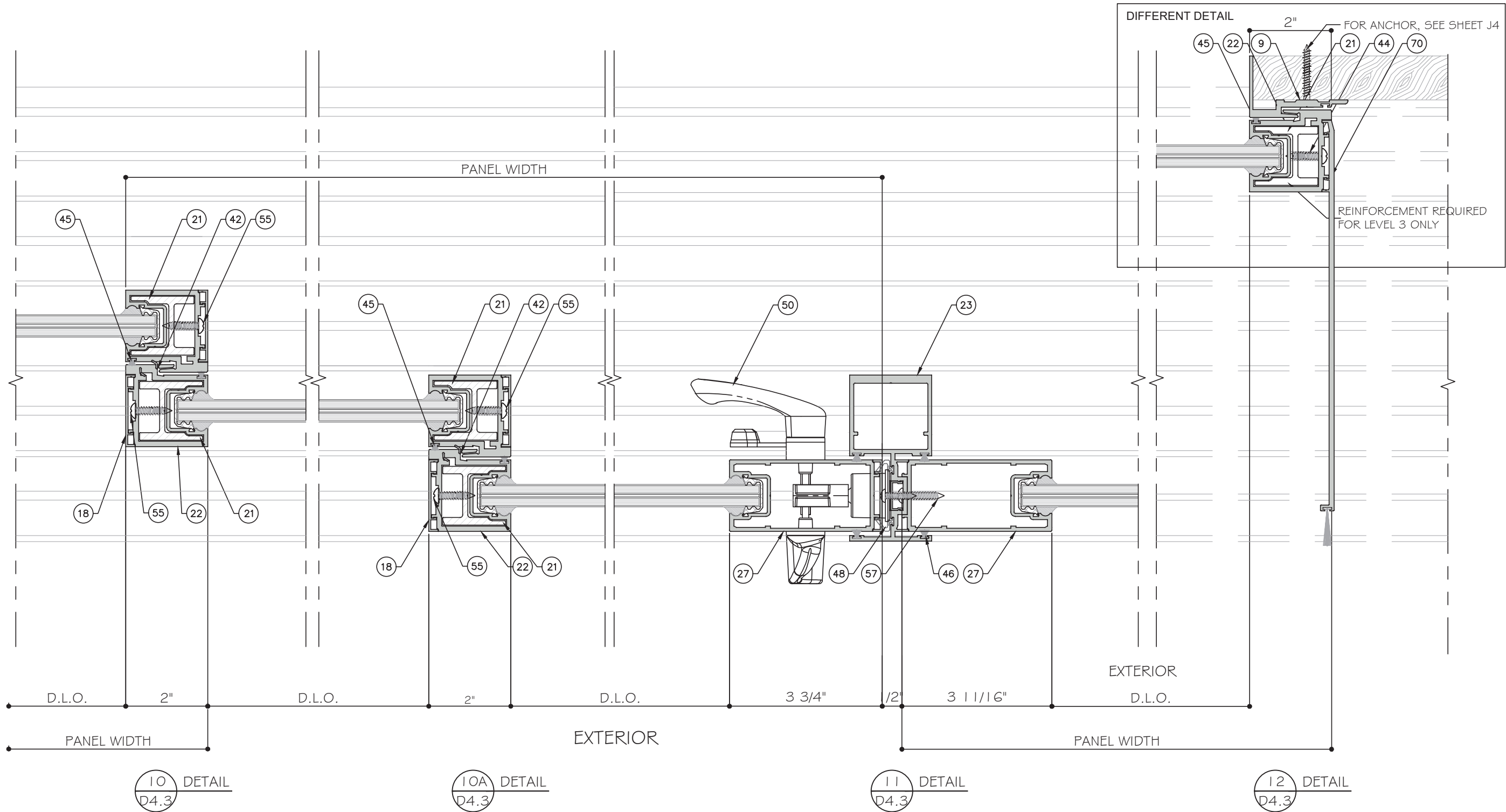
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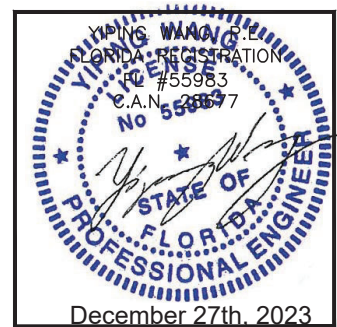
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

FIVE (5) TRACK DOOR DETAILS



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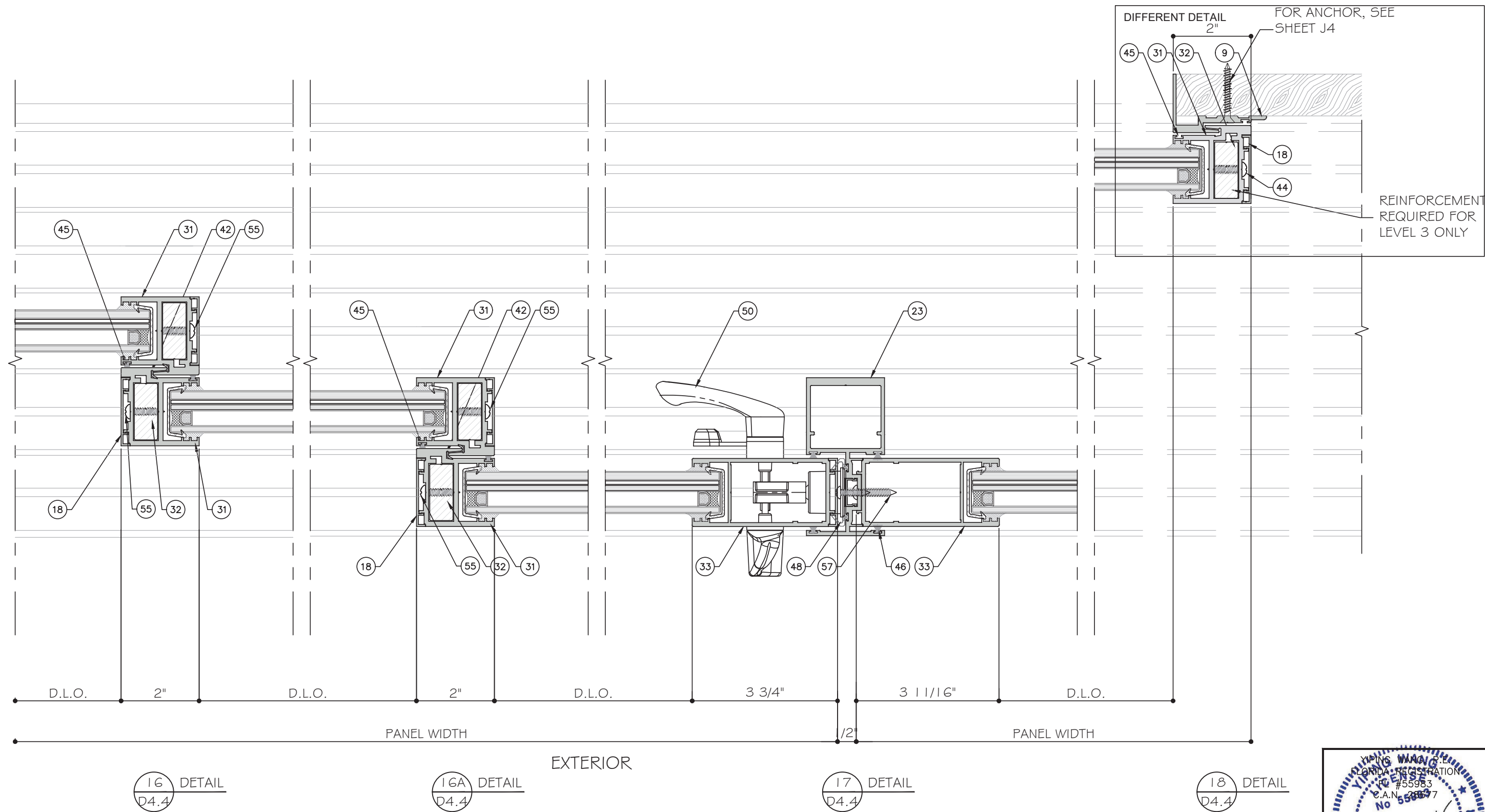
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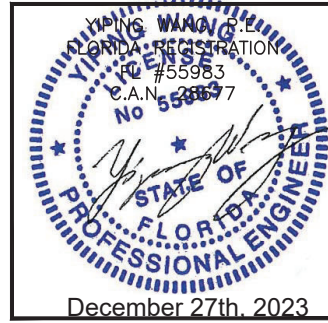
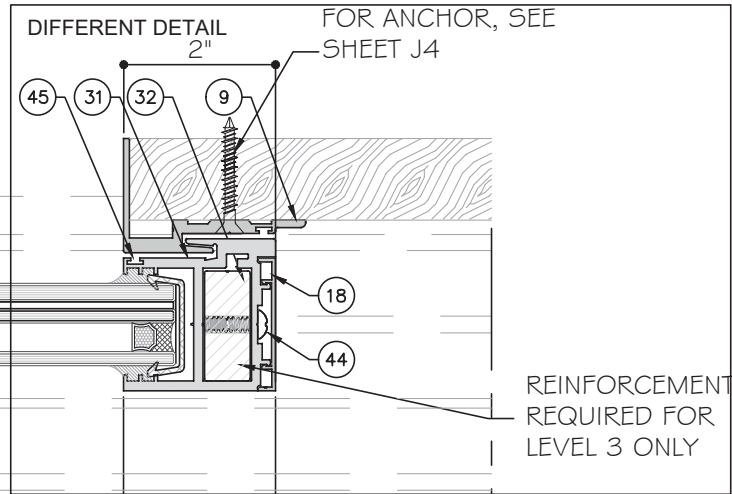
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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FIVE (5) TRACK DOOR DETAILS



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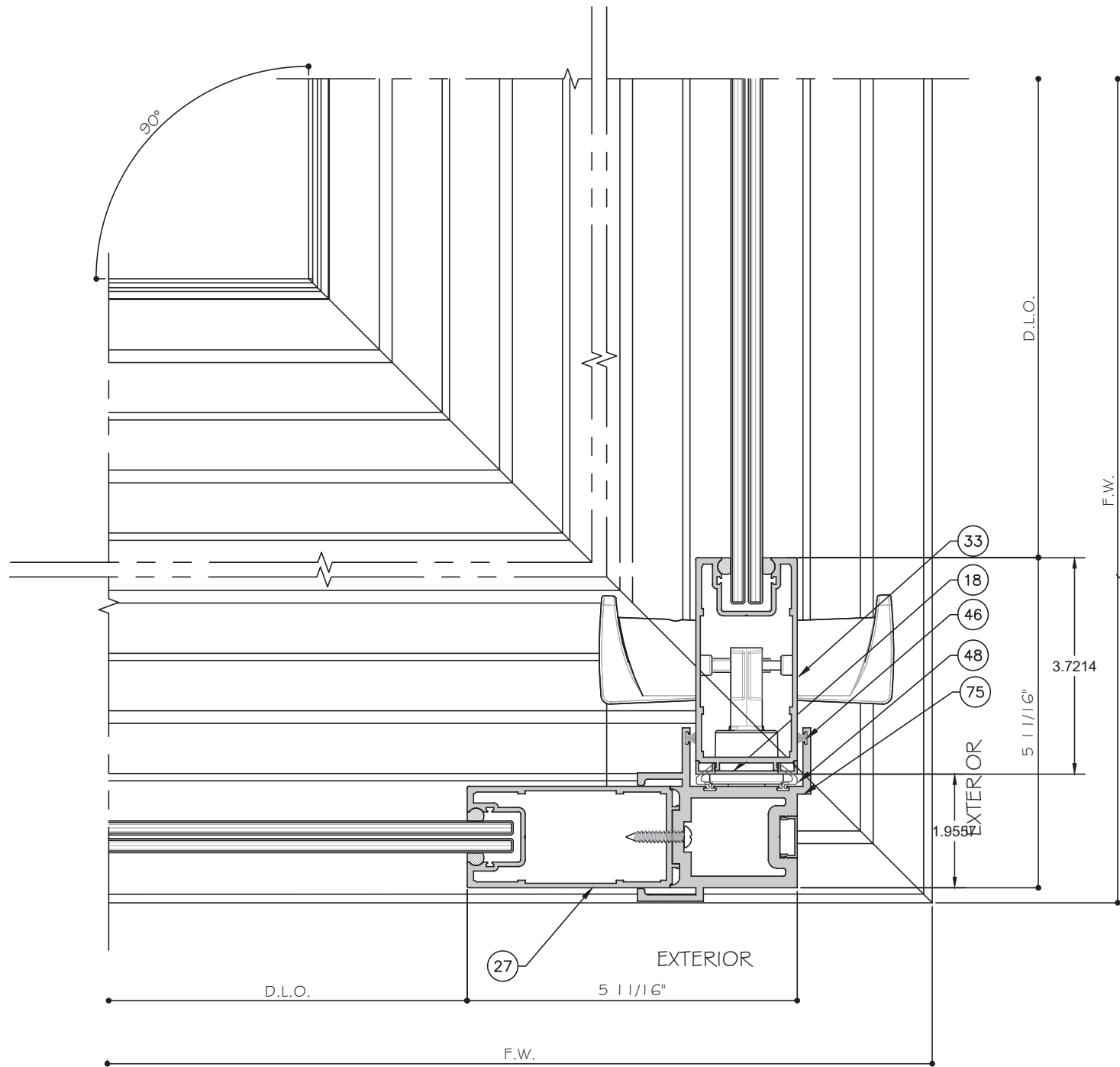
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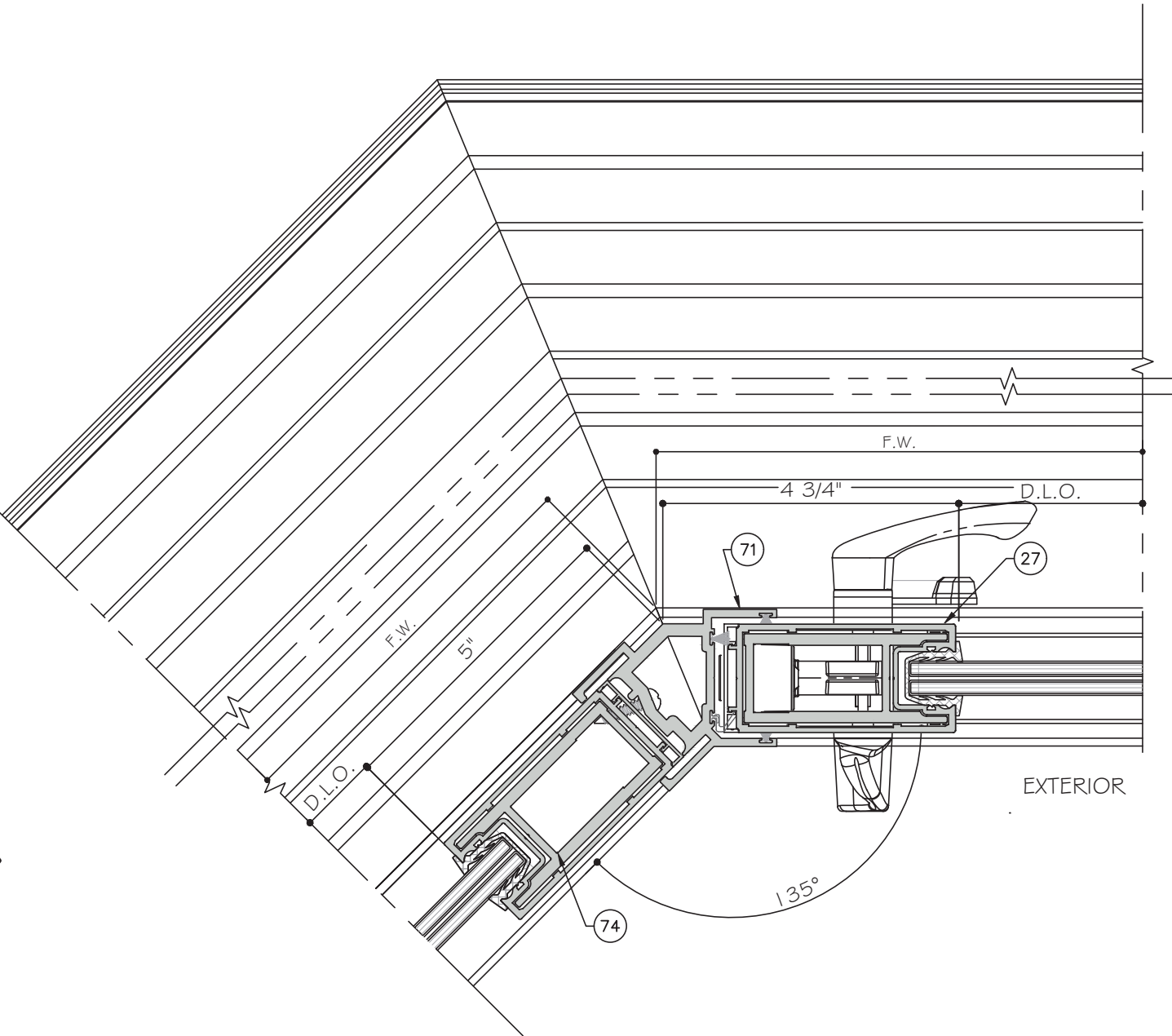
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43 DETAIL
D4.5

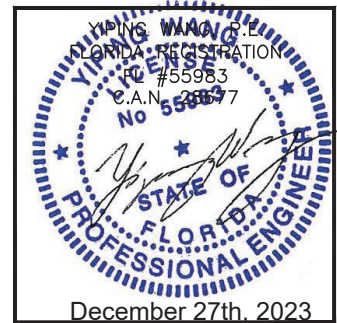


44 DETAIL
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CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.



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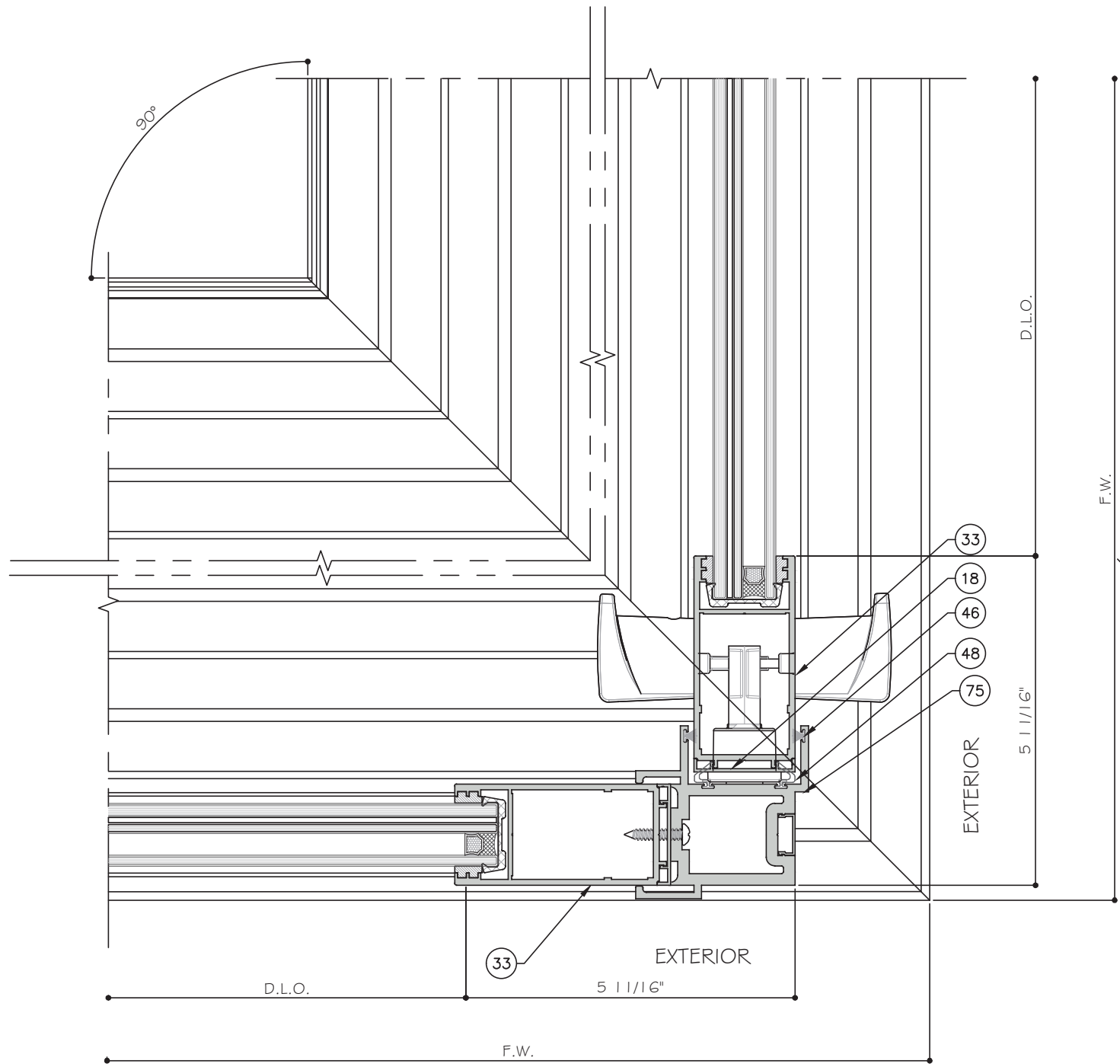
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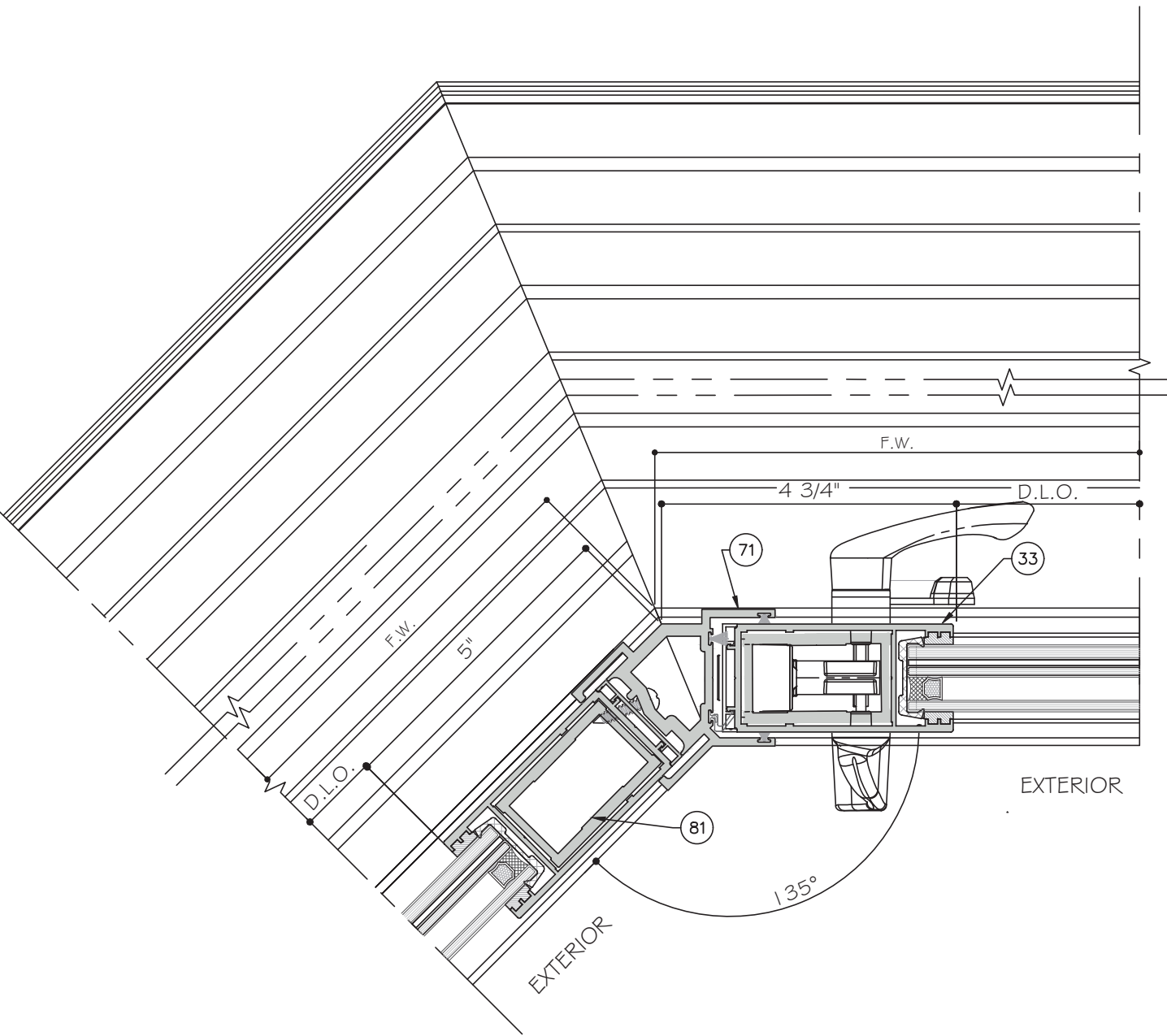
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45 DETAIL
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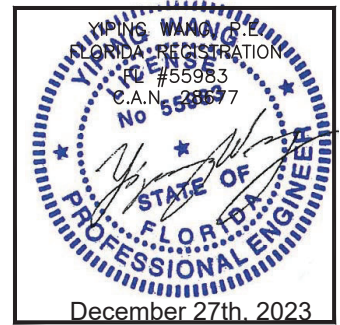


46 DETAIL
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CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.



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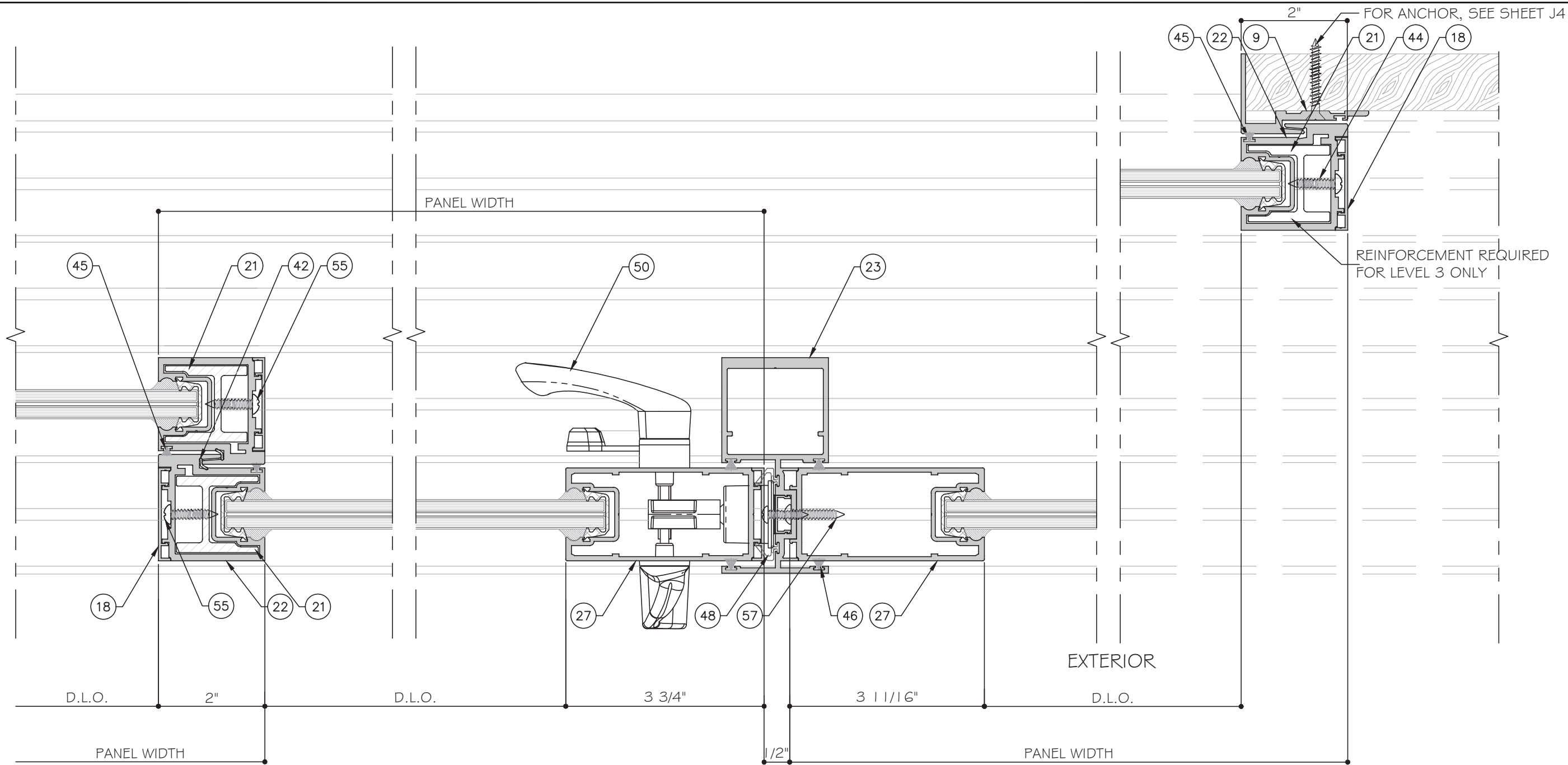
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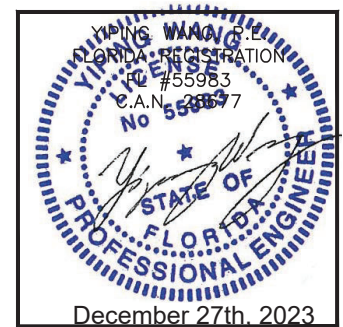
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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FOUR (4) TRACK DOOR DETAILS



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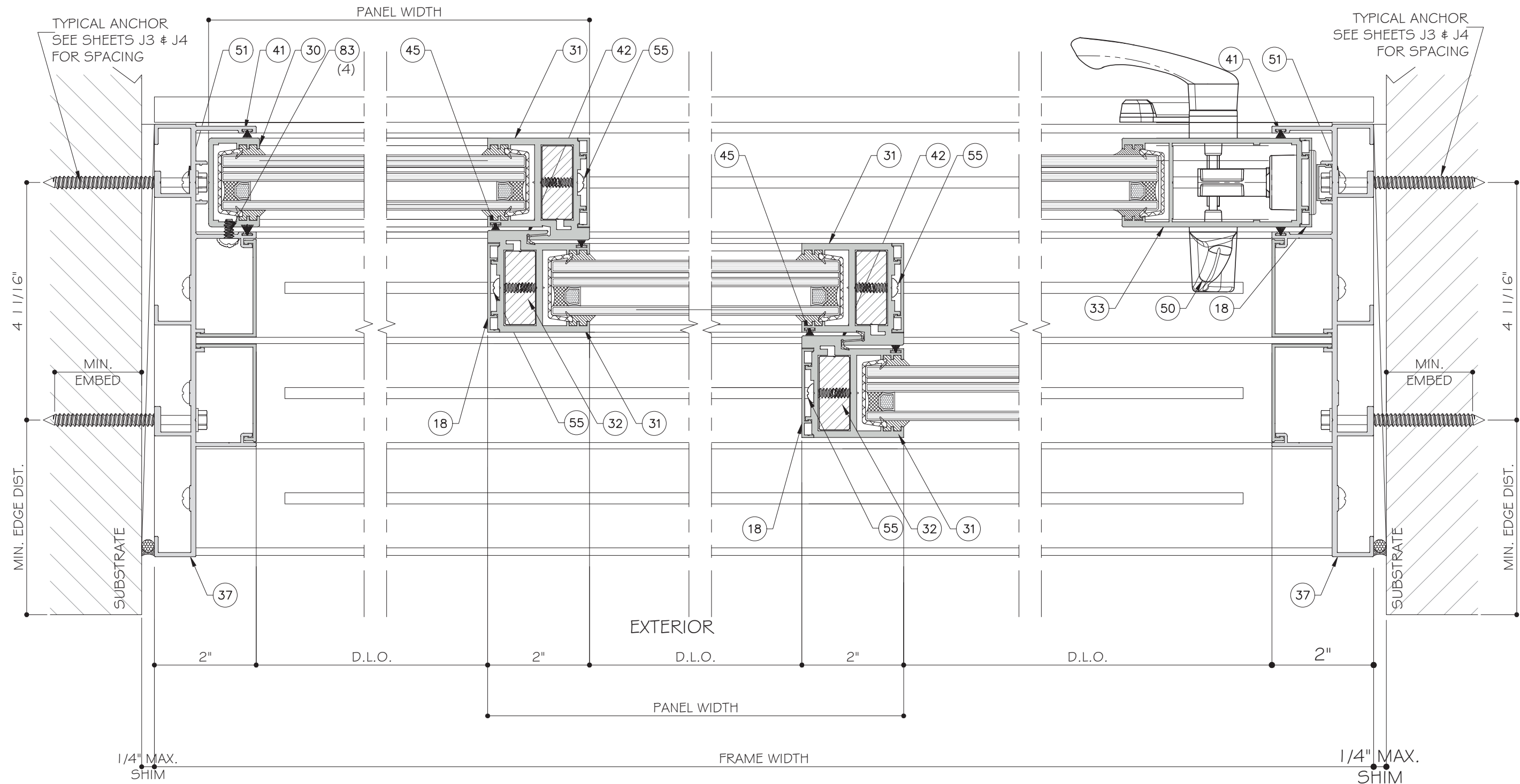
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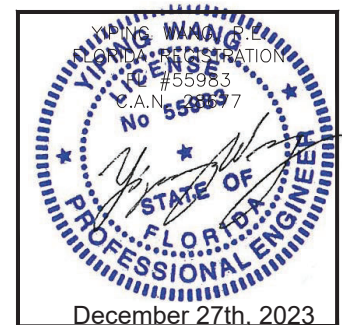
DETAIL

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DETAIL

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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FOUR (4) TRACK DOOR DETAILS



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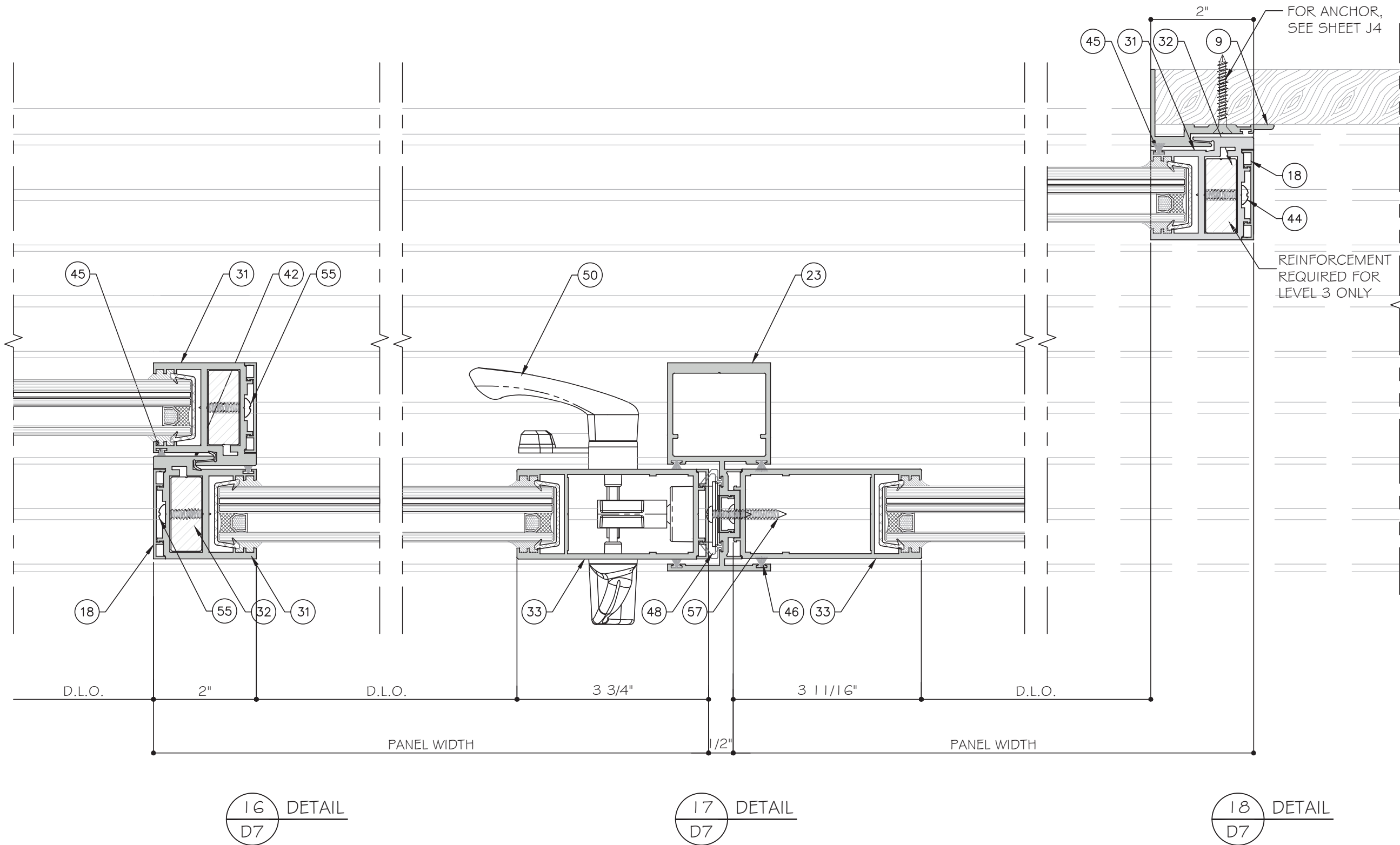
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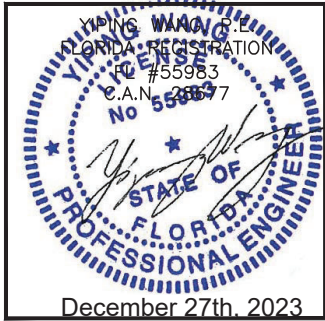
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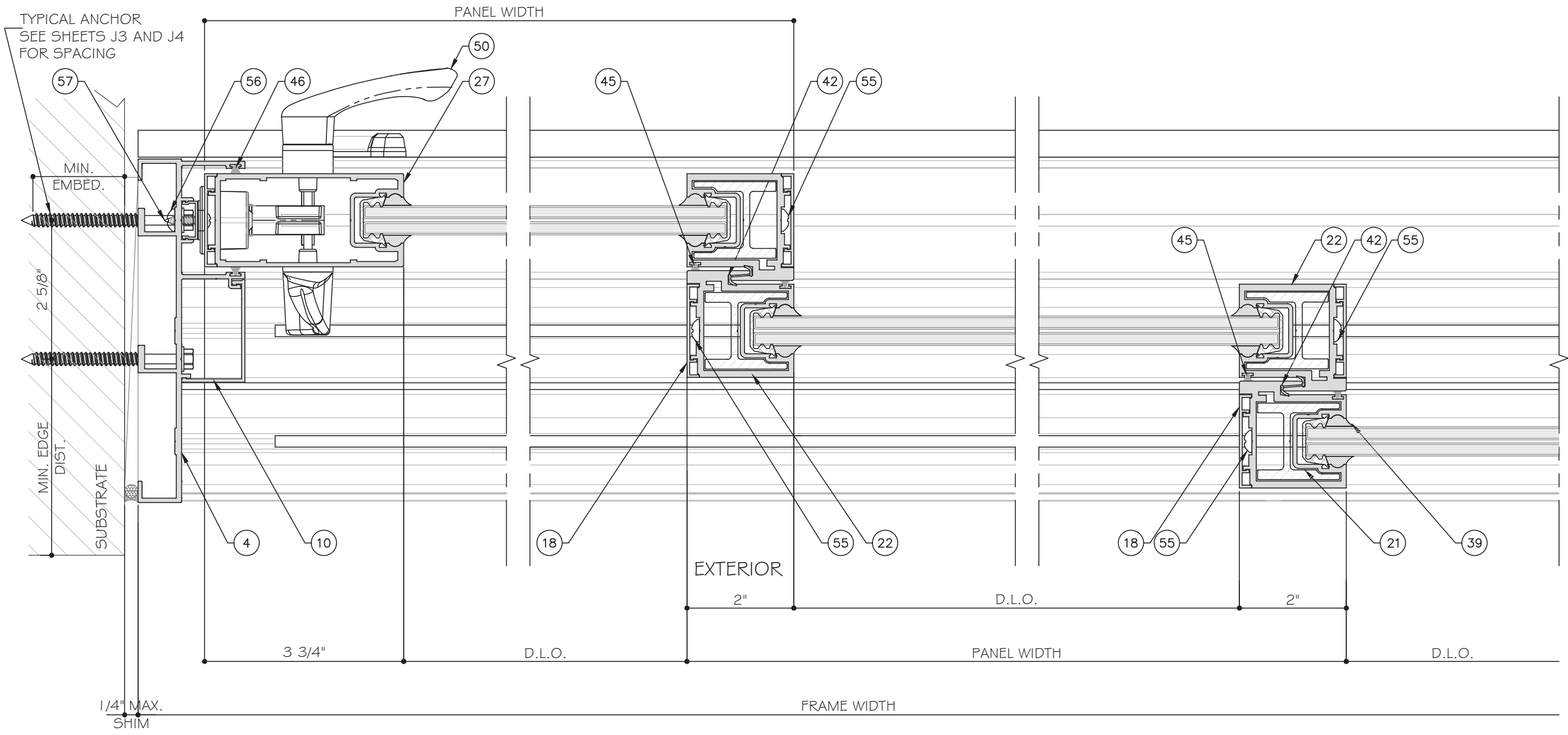


STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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FOUR (4) TRACK DOOR DETAILS



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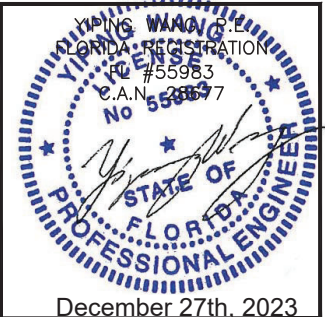
19
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DETAIL

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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THREE (3) TRACK DOOR DETAILS



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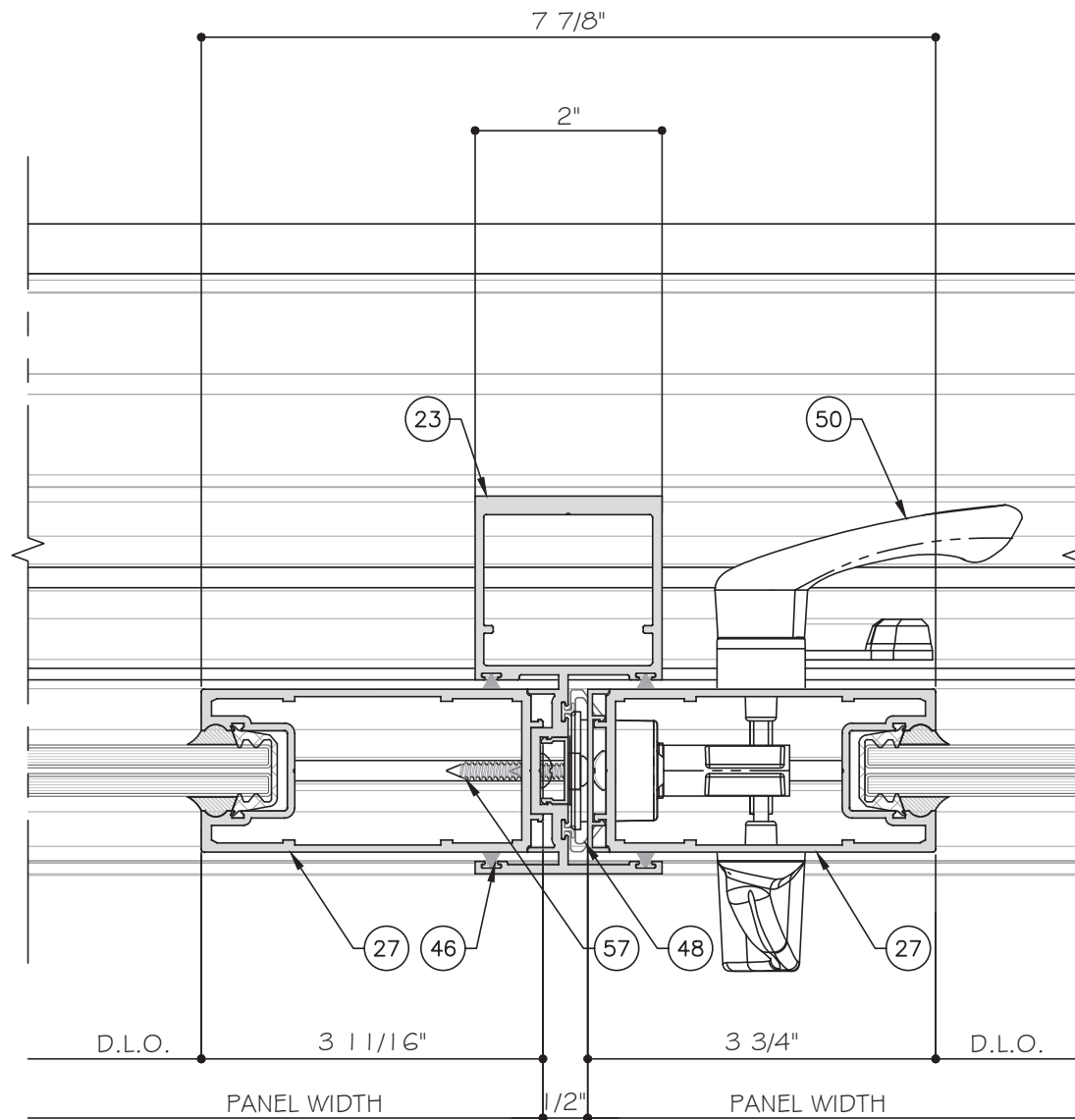
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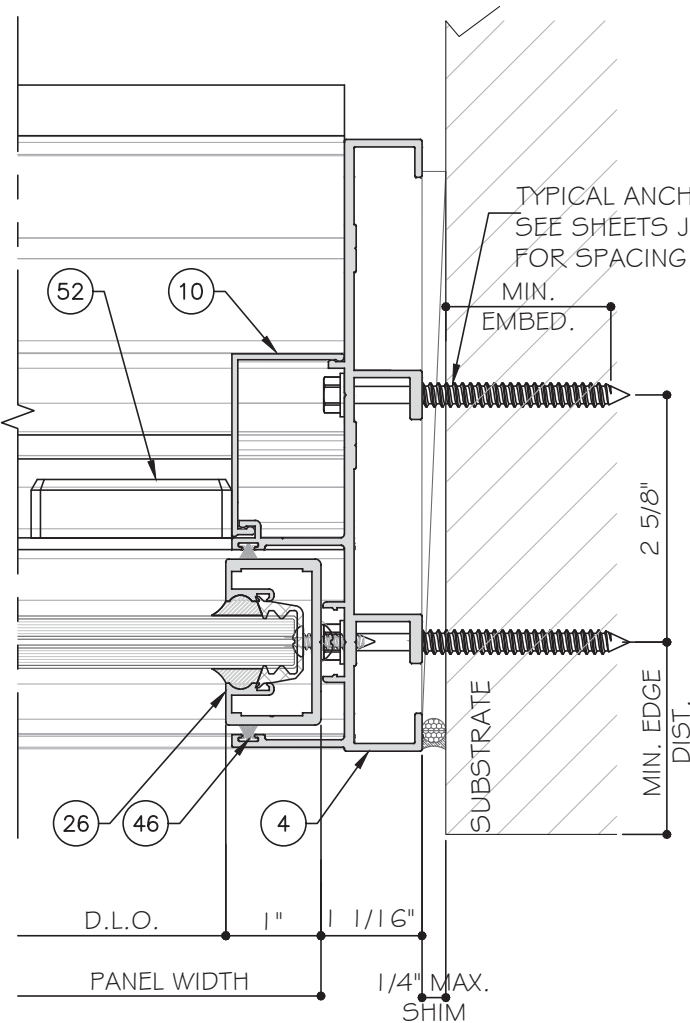
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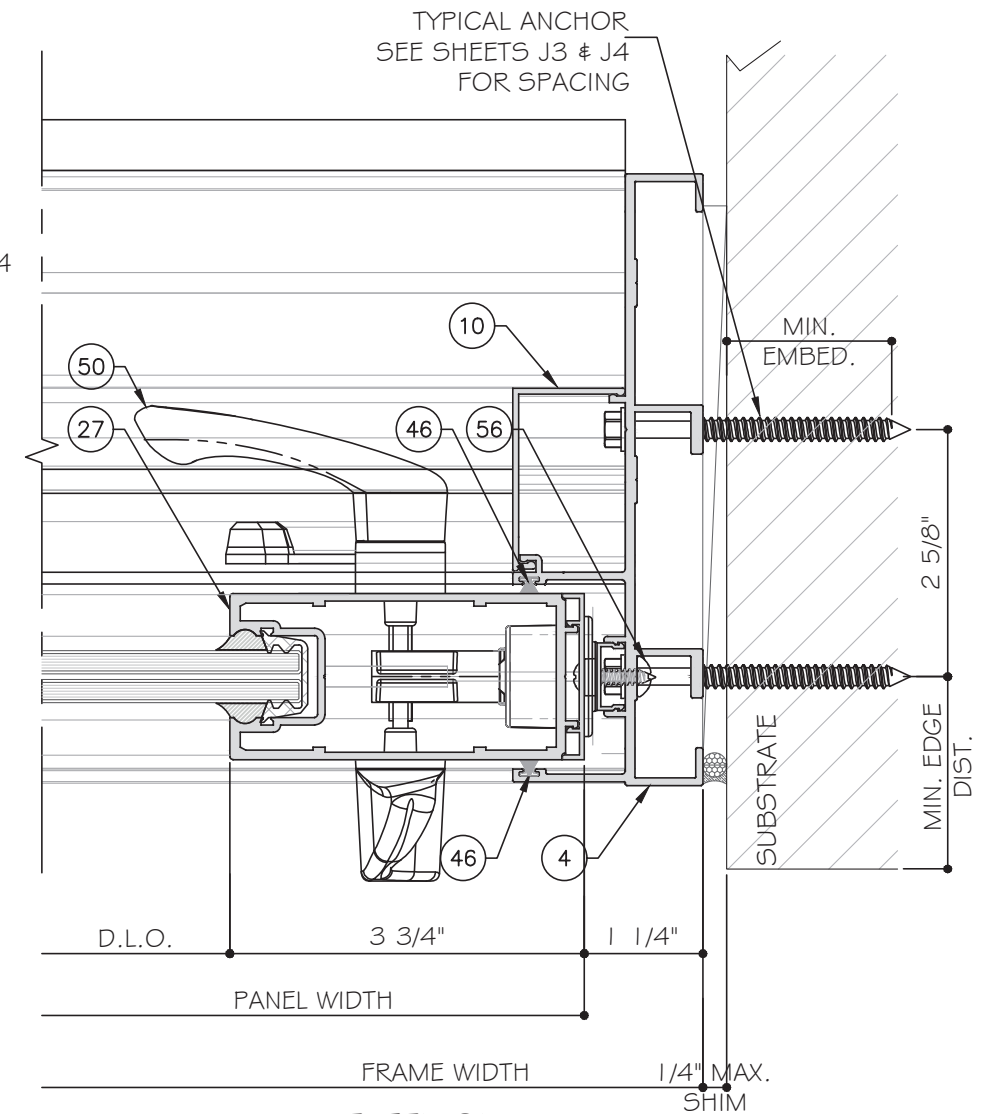


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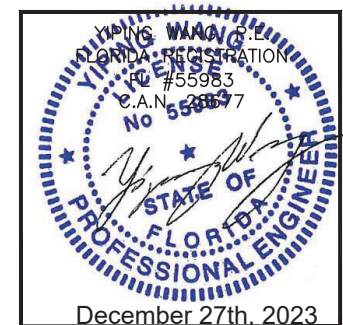


EXTERIOR

24
D9
DETAIL

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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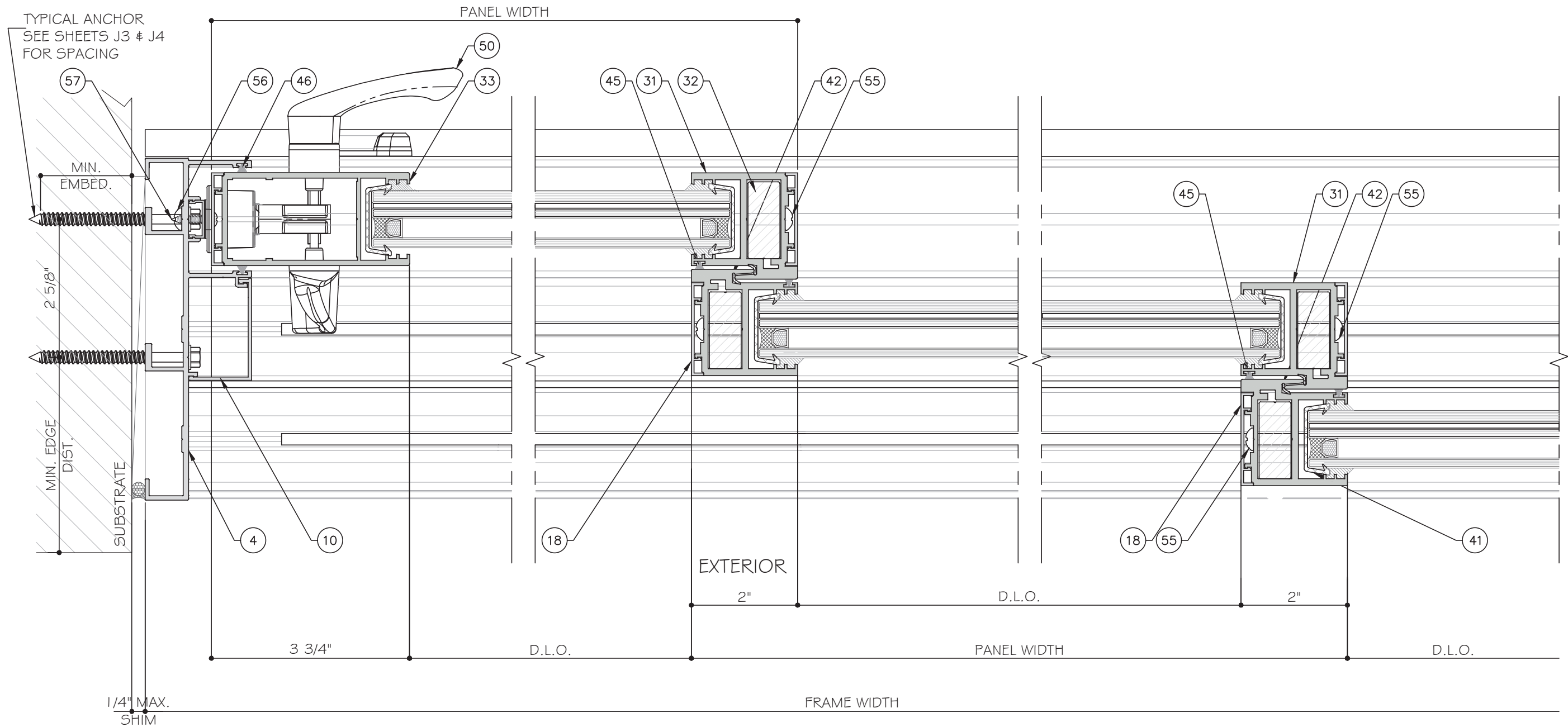
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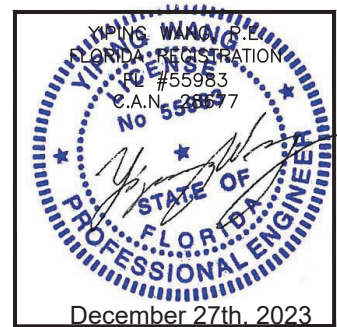
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

THREE (3) TRACK DOOR DETAILS



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MIRAMAR, FL 33027

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1	12.04.2023	James	REVISION
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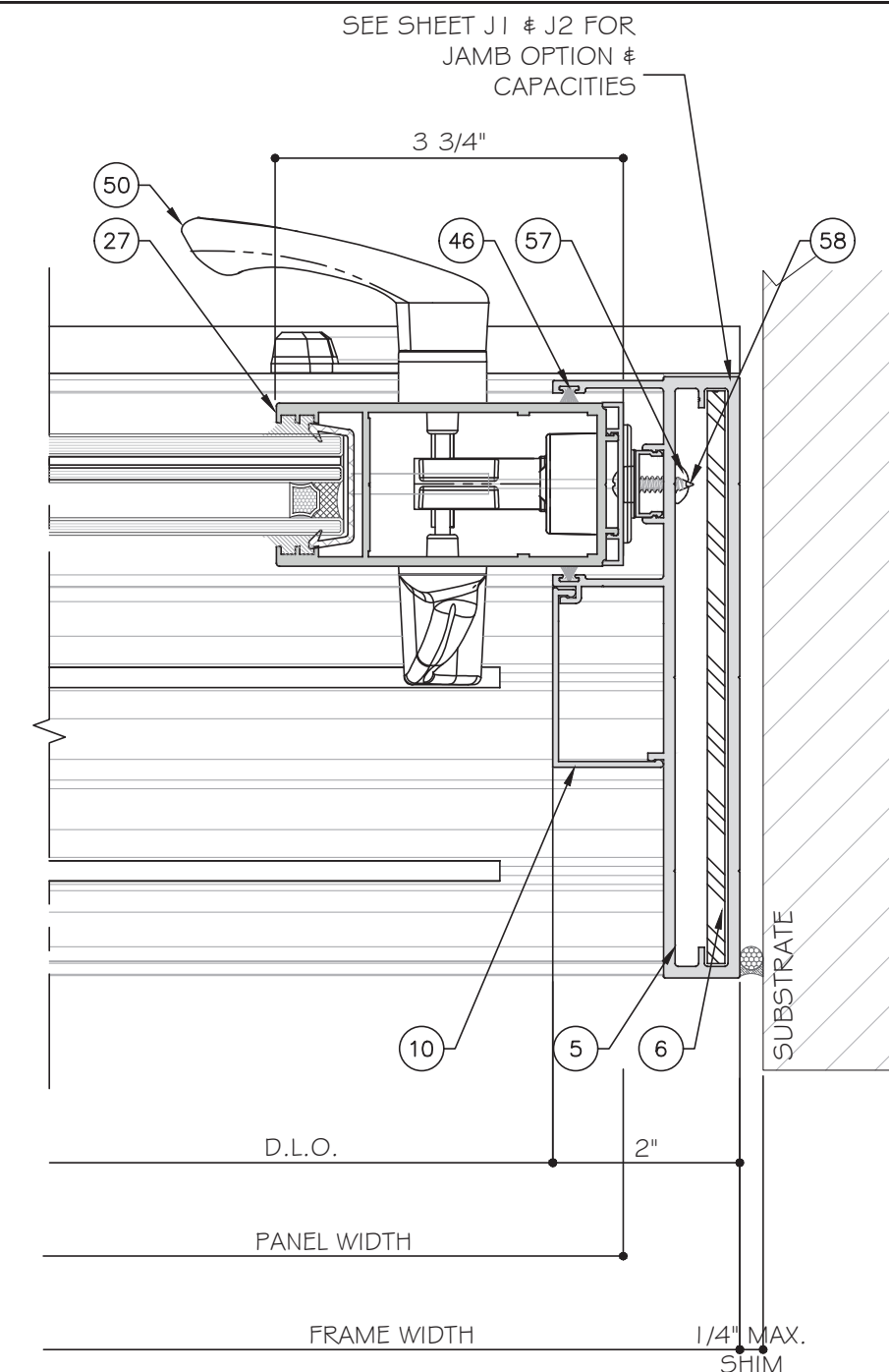
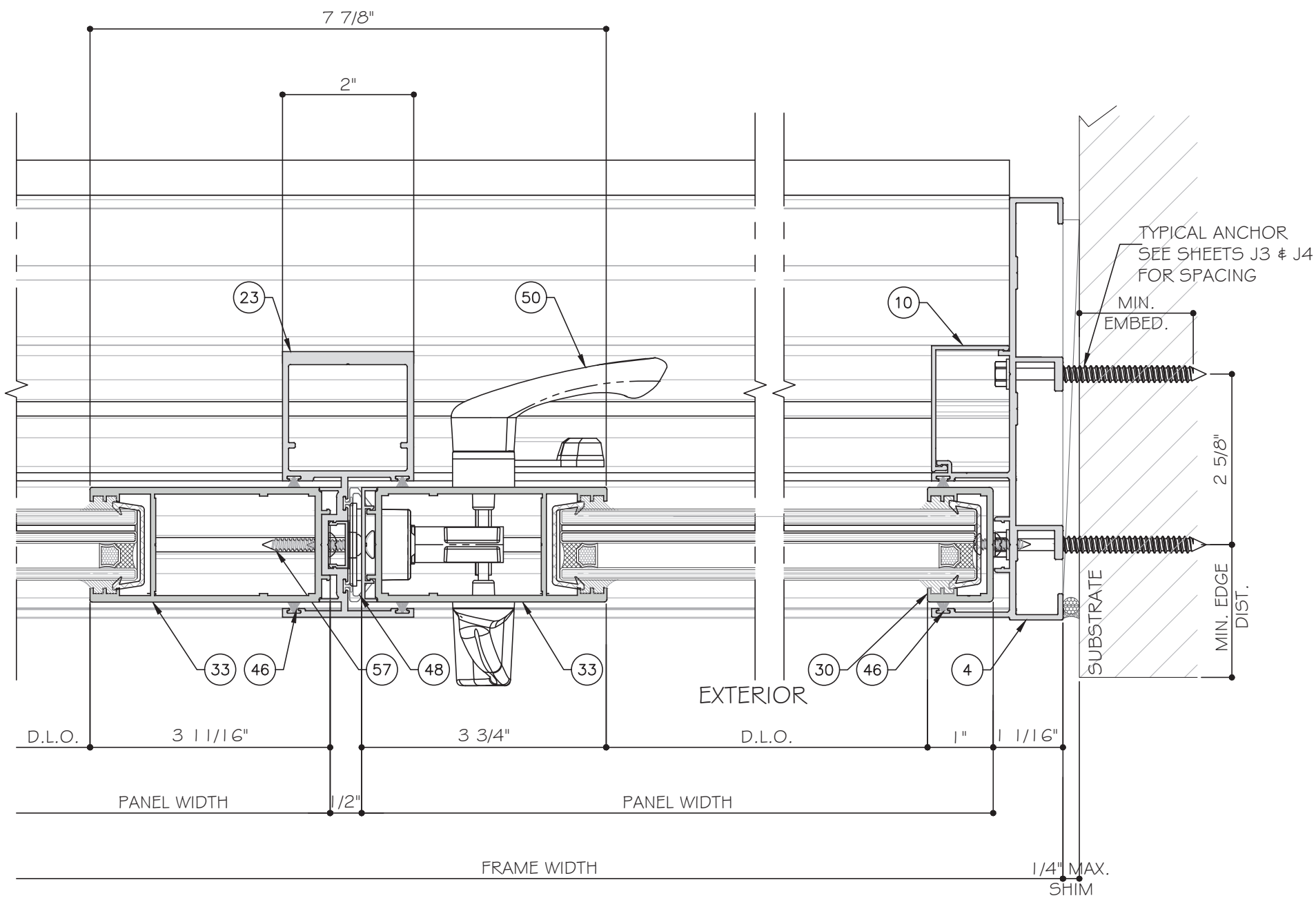
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45 OF 59



LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

THREE (3) TRACK DOOR DETAILS

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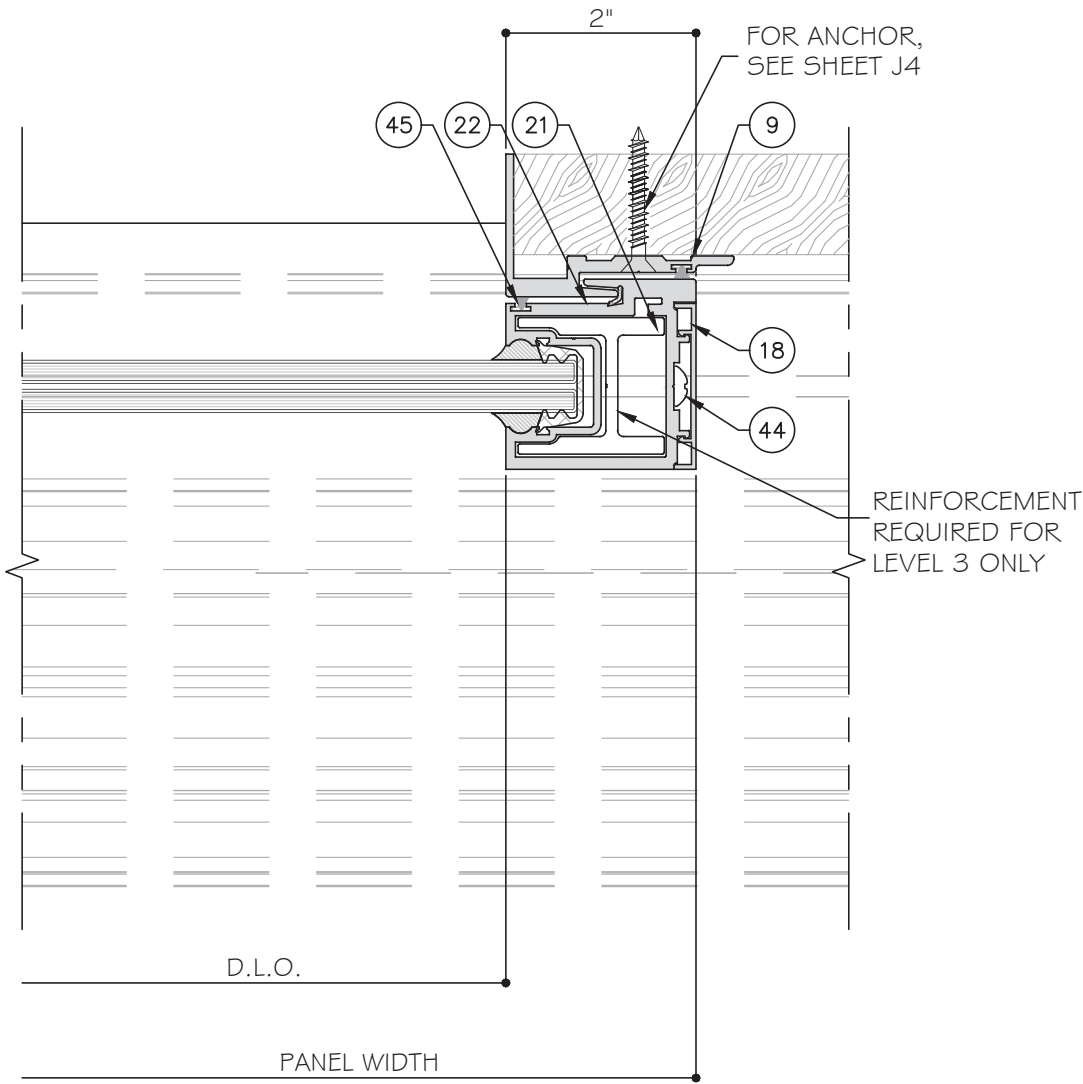
MIRAMAR, FL. 33027

P: 305.271.0117

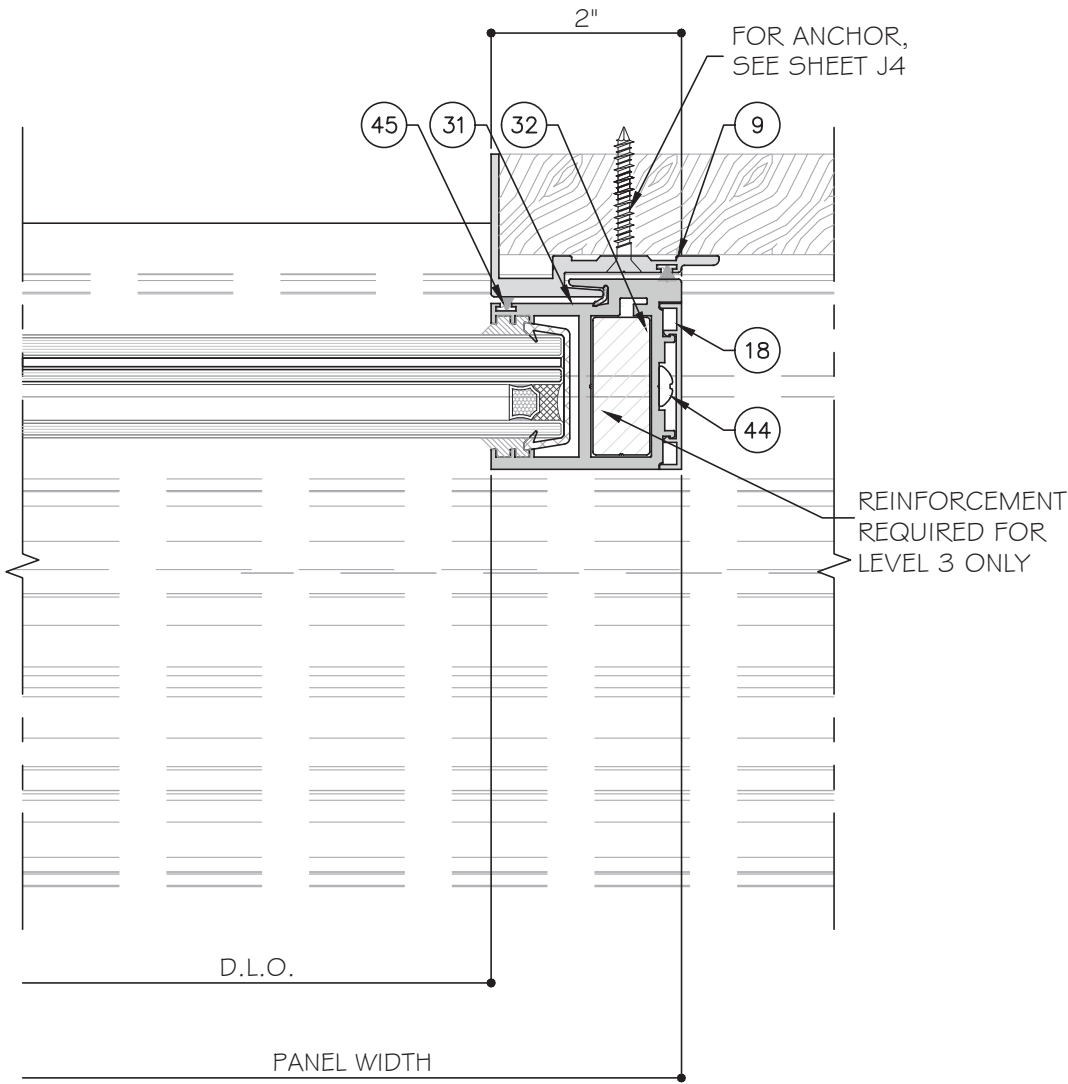
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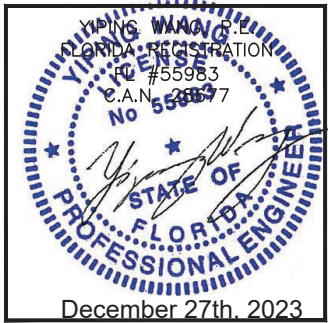


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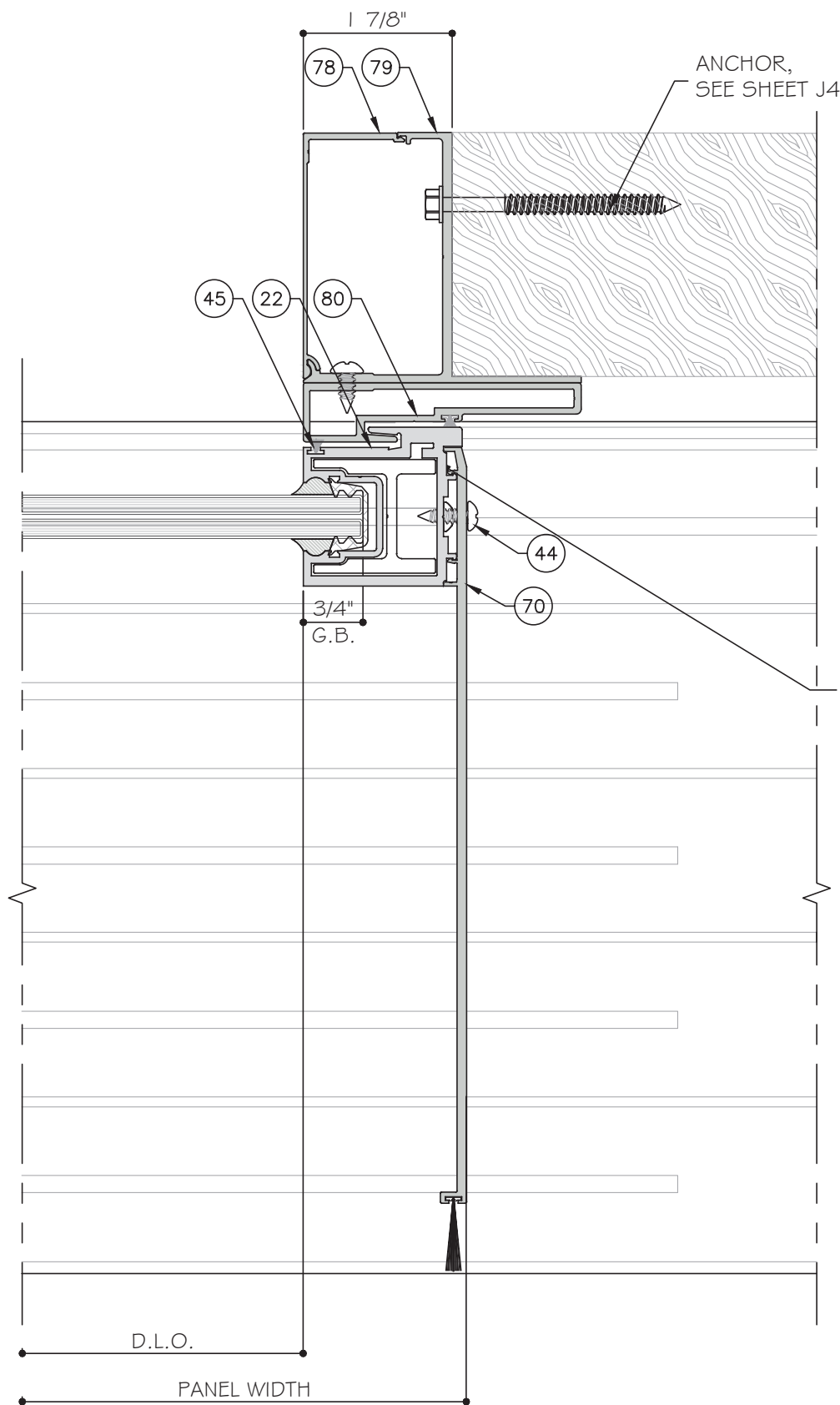


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POCKET DETAIL

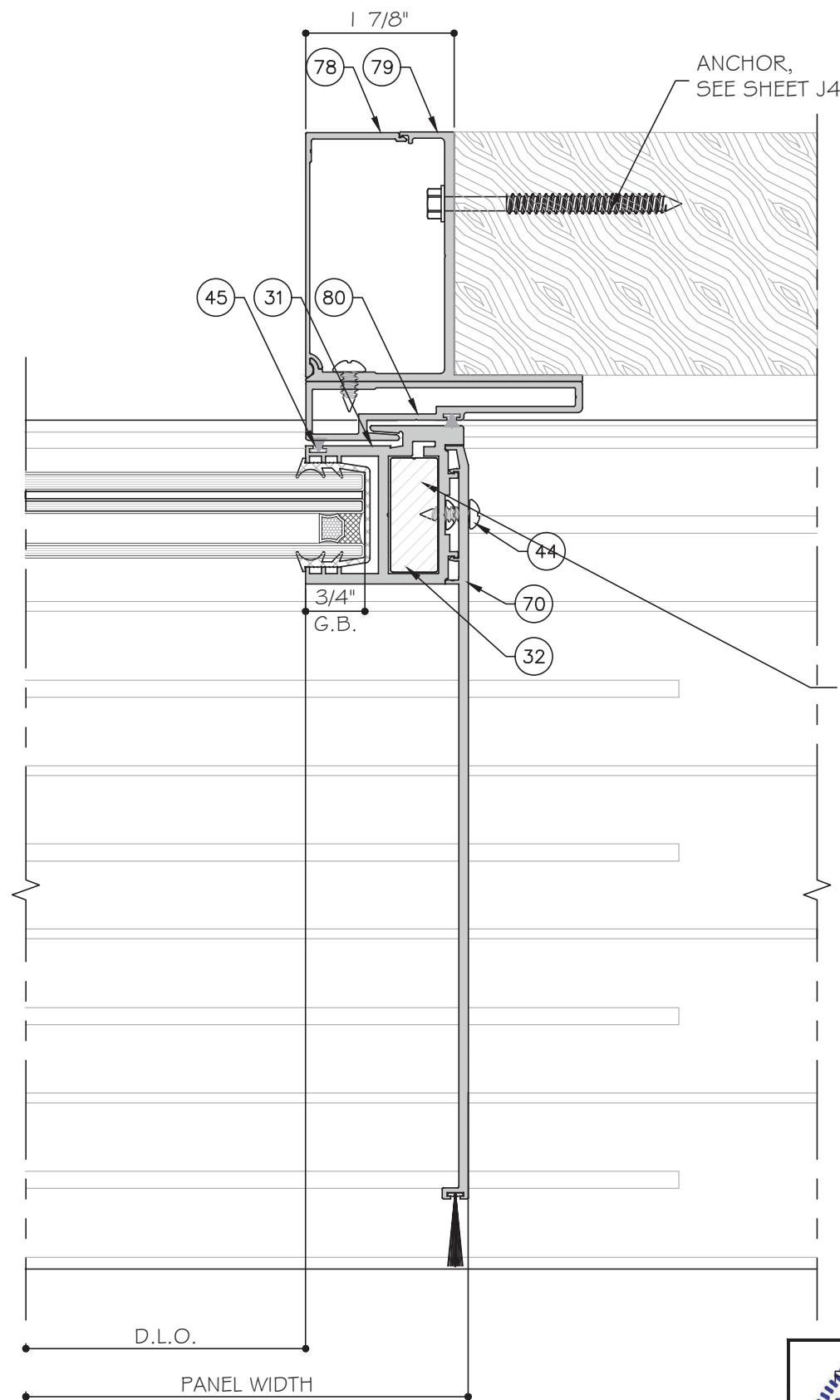


Rev. No.	Date	Drawn By	Description
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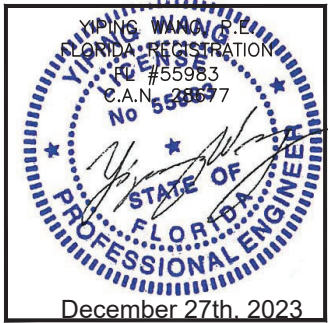


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POCKET DETAIL



31A
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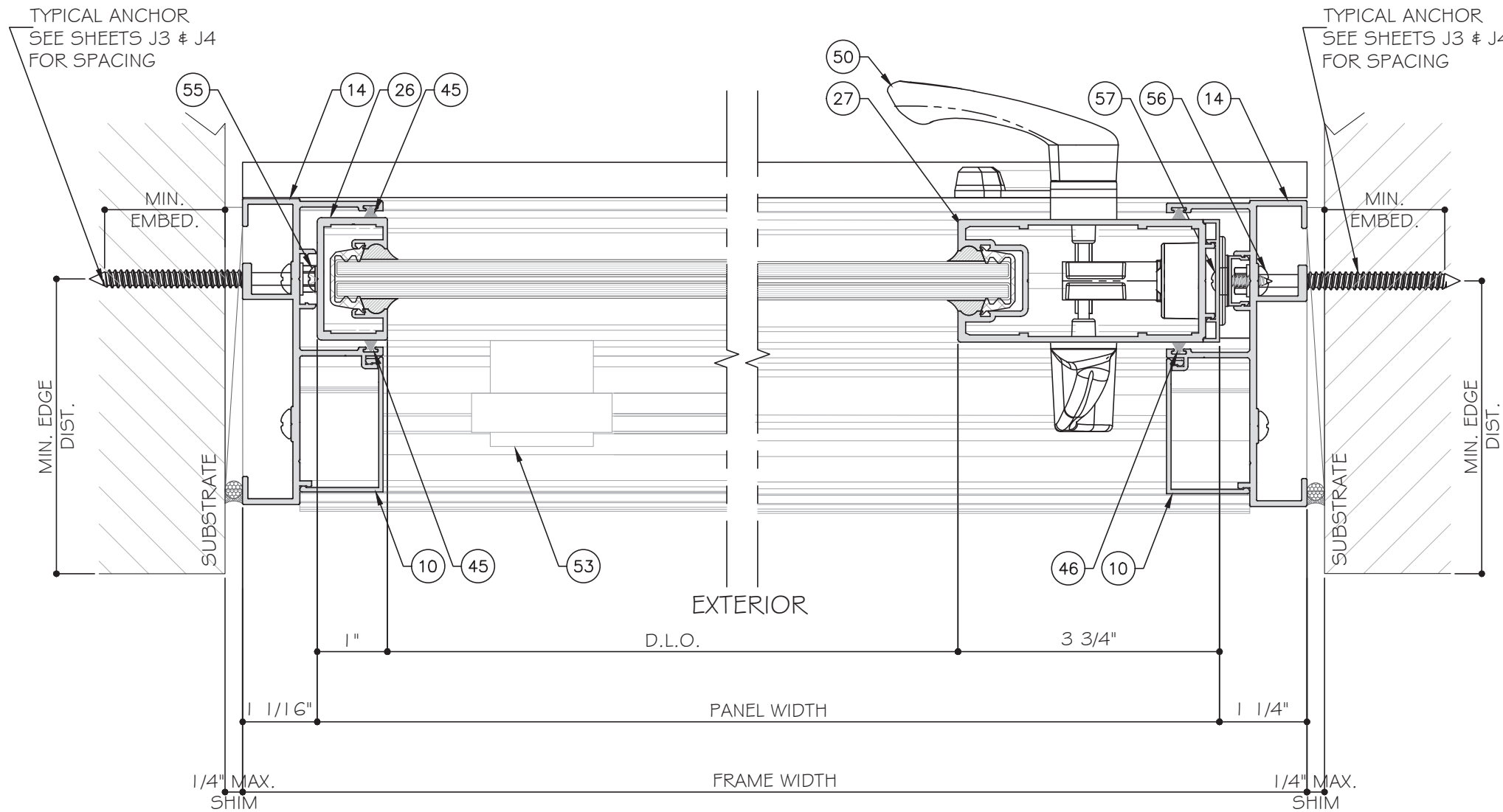
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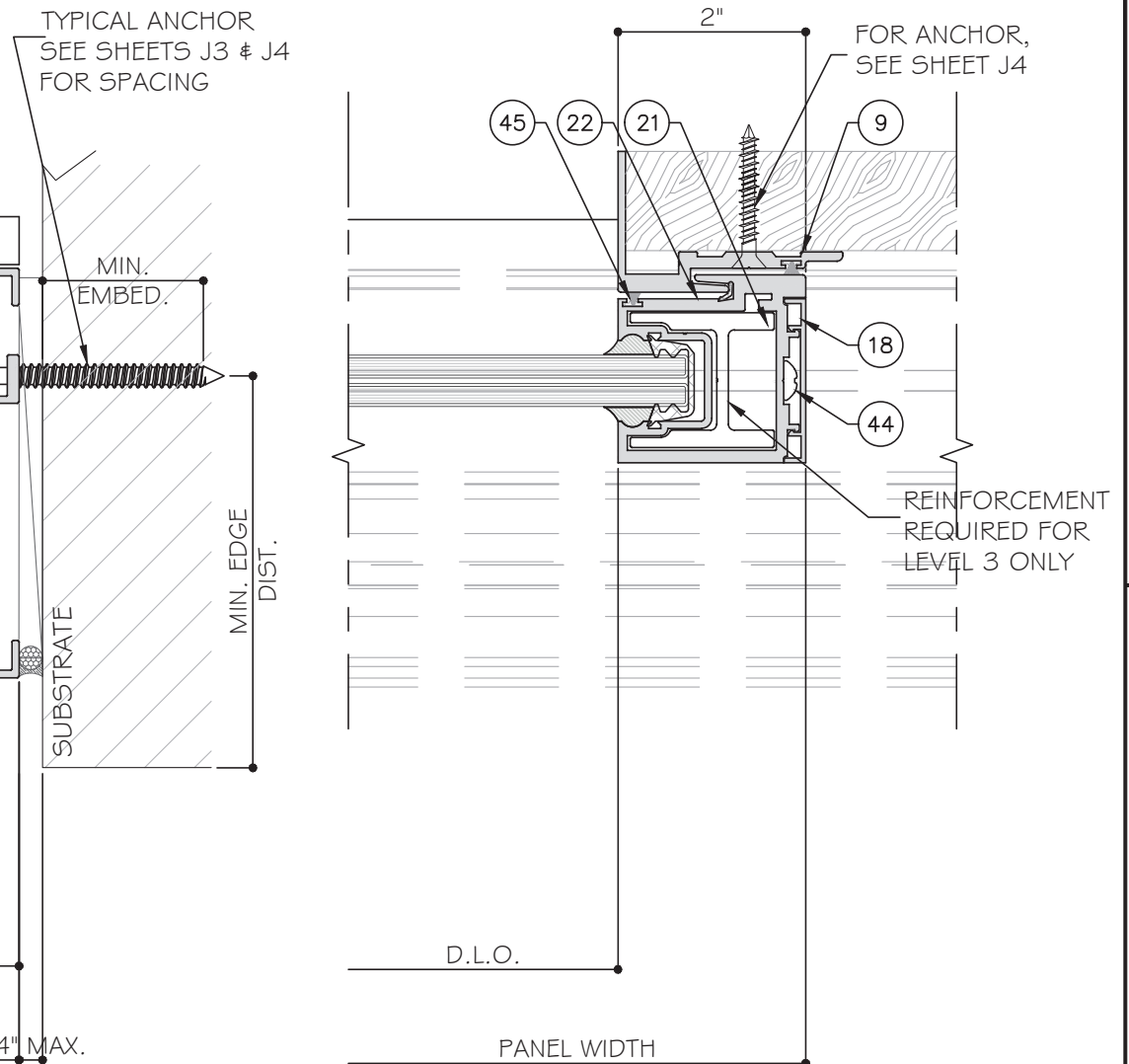


32 DETAIL
D13

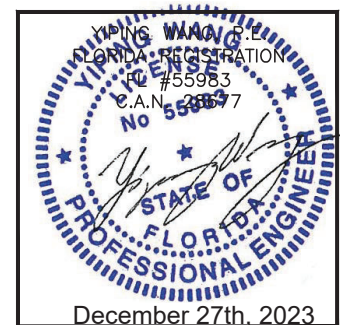
STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

TWO (2) TRACK DOOR DETAILS

33 DETAIL
D13



34 DETAIL
D13



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1	12.04.2023	James	

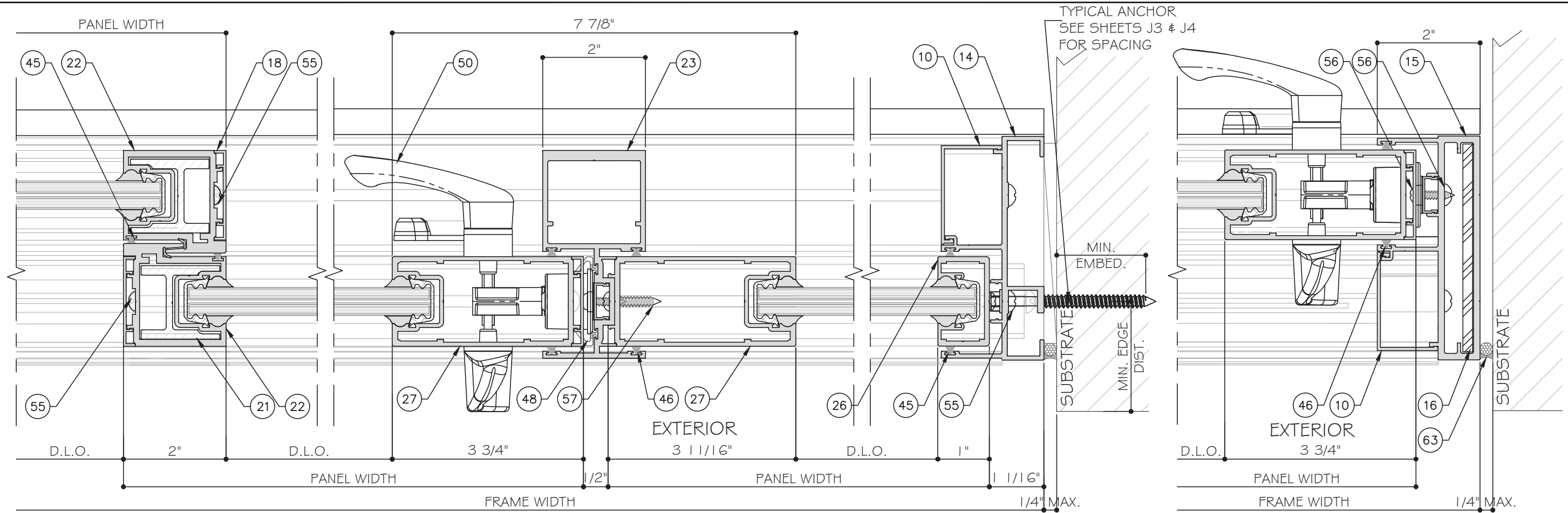
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35 DETAIL
D14

36 DETAIL
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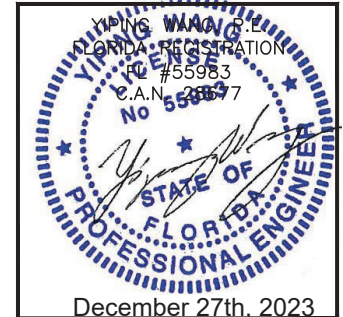
37 DETAIL
D14

FREESTANDING JAMB OPTION

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

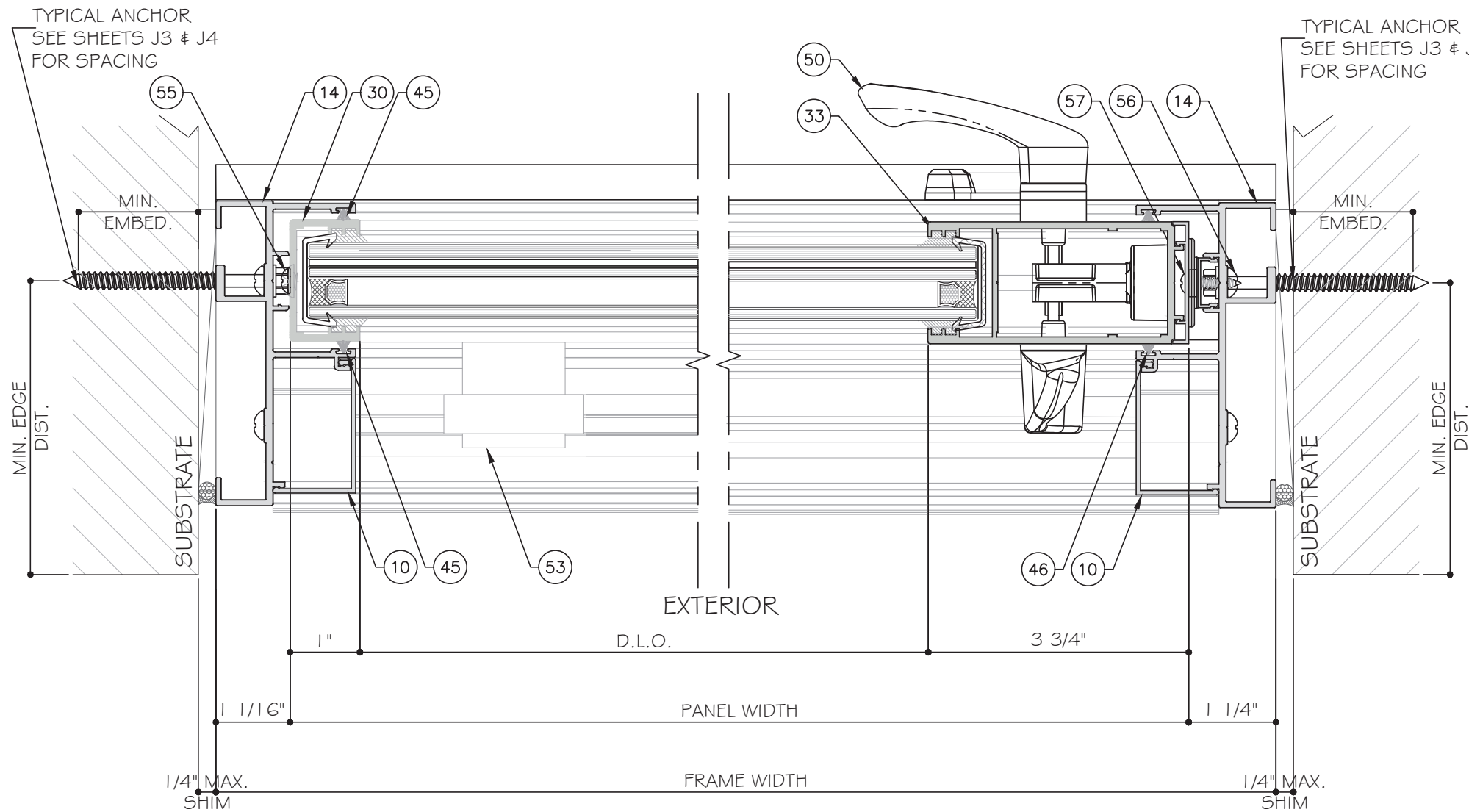
TWO (2) TRACK DOOR DETAILS



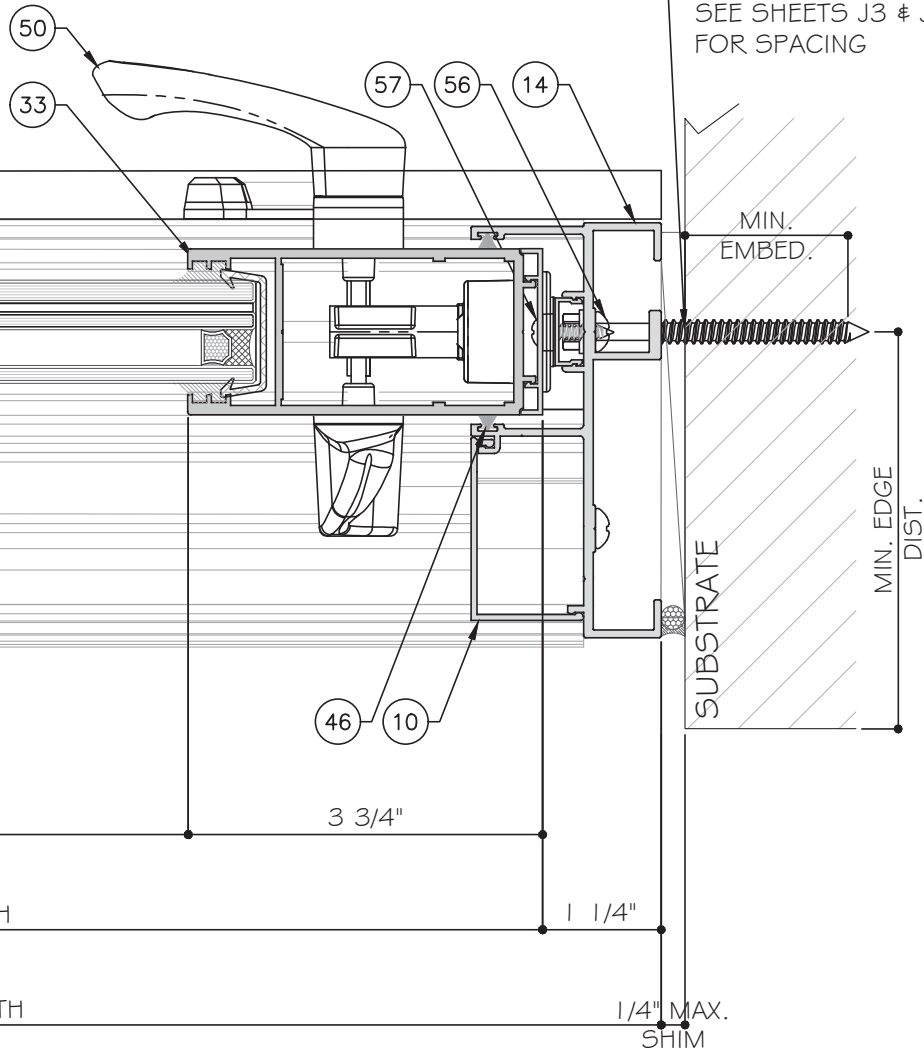
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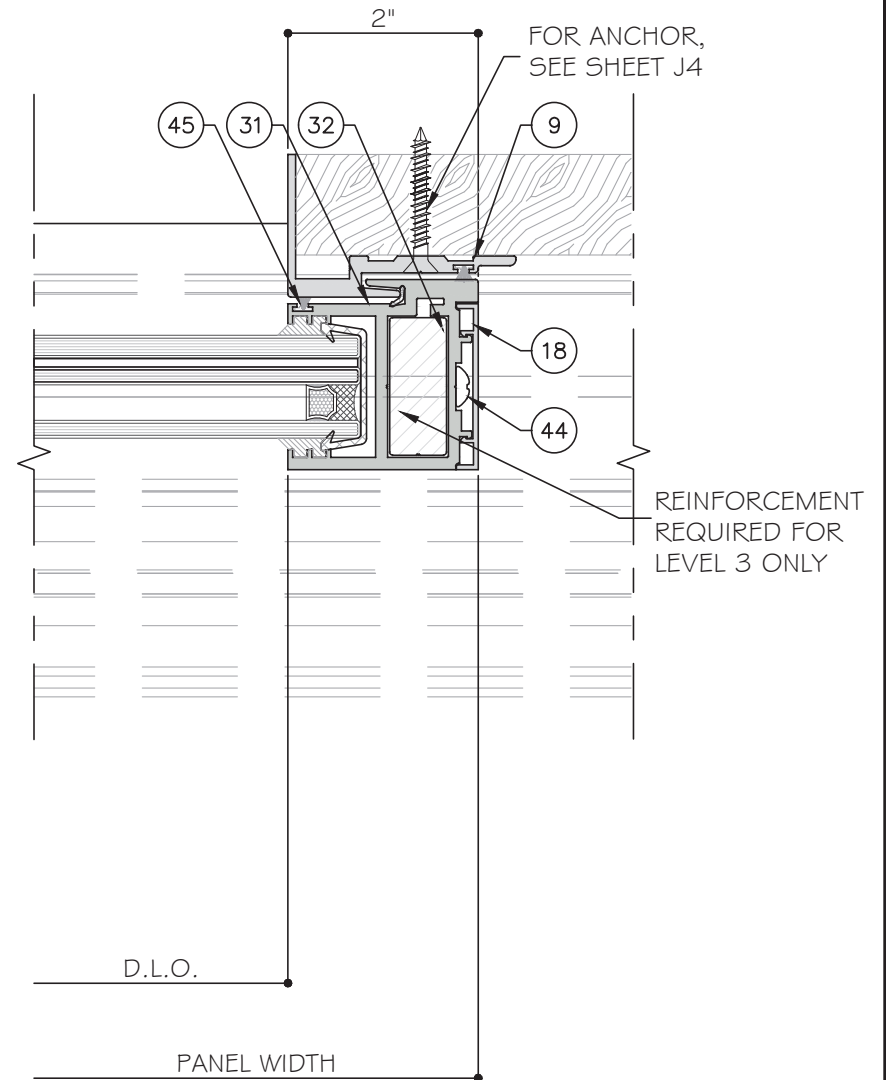
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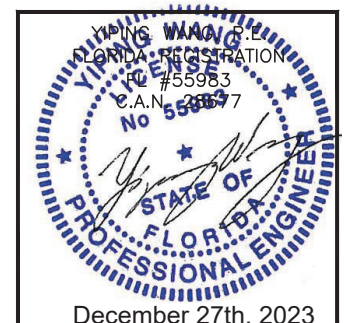
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

TWO (2) TRACK DOOR DETAILS



Rev. No.	Date	Drawn By	Description
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Scale

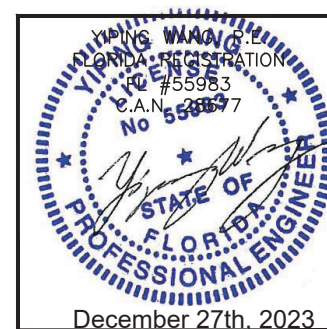
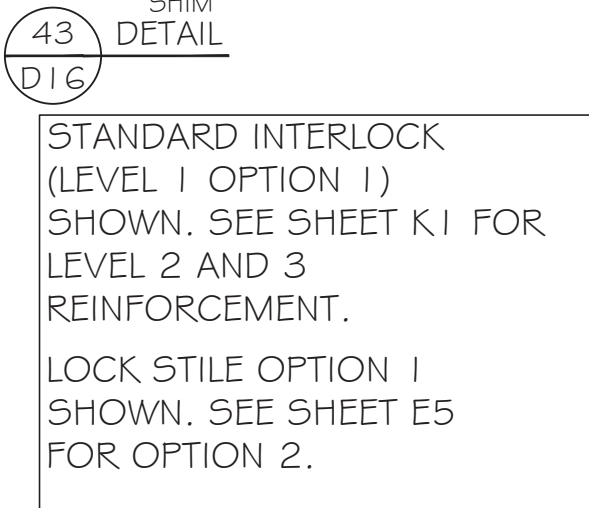
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1 HEAD (3 TRACK)
ES-SGD2020-001 6063-T6

2 SILL (3 TRACK)
ES-SGD2020-002 6063-T6

3 FRAME SILL COVER (3 TRACKS)
ES-SGD2020-003 6063-T6

4 JAMB (3 TRACK)
ES-SGD2020-004 6063-T6

5 UNANCHORED JAMB (3 TRACK)
ES-SGD2020-005 6063-T6

6 UNANCHORED JAMB REINF.
FOR 3 TRACK
ES-SGD2020-006 6005-T5

7 SILL RAISER 67PSF
ES-SGD2020-007 6063-T6

8 STANDARD SILL RAISER 53PSF
ES-SGD2020-008 6063-T6

9 POCKET JAMB
ES-SGD2020-009 6063-T6

10 JAMB SCREW COVER
ES-SGD2020-010 6063-T6

14 JAMB (2 TRACK)
ES-SGD2020-014 6063-T6

11 HEAD (2 TRACK)
ES-SGD2020-011 6063-T6

12 SILL (2 TRACK)
ES-SGD2020-012 6063-T6

13 FRAME SILL COVER (2 TRACKS)
ES-SGD2020-013 6063-T6

36 FRAME SILL COVER (4 TRACKS)
ES-SGD2020-013 6063-T6

YONG WANG
FLORIDA REGISTRATION
No. 55983
C.A.N. 55983
December 27th, 2023
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Drawn Date: 12.04.2023
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Drawing No.: AD16-29
PARTS
Sheet No.: 53 OF 59

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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15 UNANCHORED JAMB (2 TRACK)
ES-SGD2020-015 6063-T6

21 REINF. FOR INTERLOCK
ES-SGD2020-021 6005-T5

24 TOP RAIL FOR LAMINATED GLASS
ES-SGD2020-024 6063-T6

22B INTERLOCK HEAVY FOR LAMINATED
ES-SGD2020-085 6005-T5

16 UN-ANCHORED JAMB REINF. FOR 2 TRACK
ES-SGD2020-016 6063-T6

22 INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-022 6063-T6

26 FIXED STILE FOR LAMINATED GLASS
ES-SGD2020-026 6063-T6

17 JAMB SCREW COVER
ES-6011 6063-T6

19 HEAVY INTERLOCK REINF.
ES-SGD2020-019 6063-T6

22A INTERLOCK FOR LAMINATED
ES-SGD2020-084 6005-T5

18 INTERLOCK AND LOCKSTILE SCREW COVER
ES-SGD2020-018 6063-T6

23 ASTRAGAL
ES-SGD2020-023 6063-T6

27 LOCK STILE FOR LAMINATED GLASS
ES-SGD2020-027 6063-T6

20 HEAVY INTERLOCK REINF. COVER
ES-SGD2020-020 6063-T6

25 BOTTOM RAIL FOR LAMINATED GLASS
ES-SGD2020-025 6063-T6

27A LOCKSTILE FOR LAMINATED
ES-SGD2020-088 6063-T6

December 27th, 2023

Rev. No.	Date	Drawn By	Description

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12.04.2023

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AD16-29

PARTS

Sheet No.
54 OF 59

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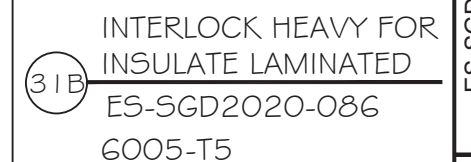
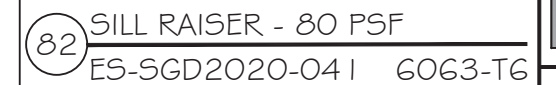
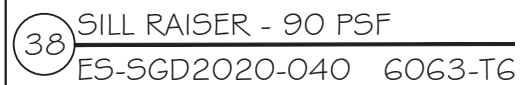
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R8	12.04.2023	James	REVISION
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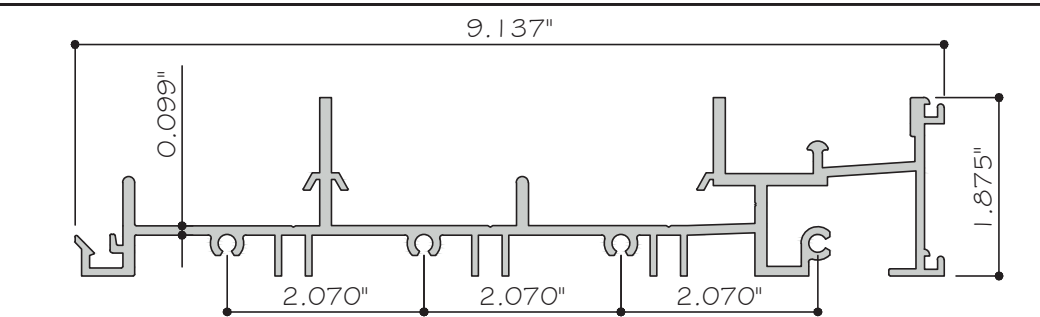
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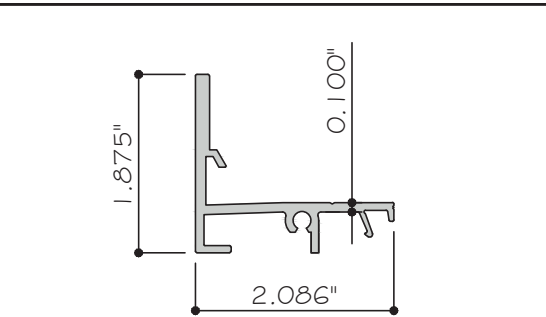
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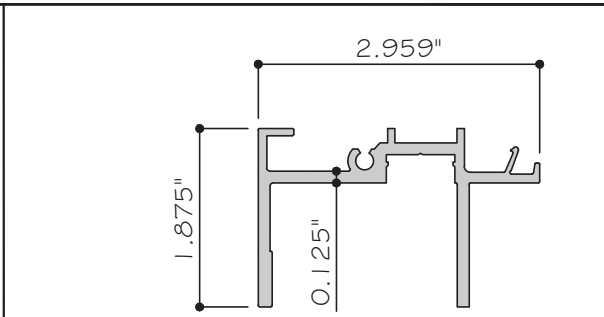
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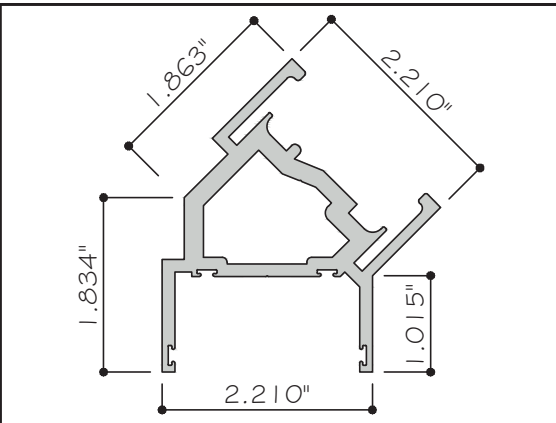
65 FRAME SILL - 5 TRACKS
ES-SGD2020-055 6063-T6



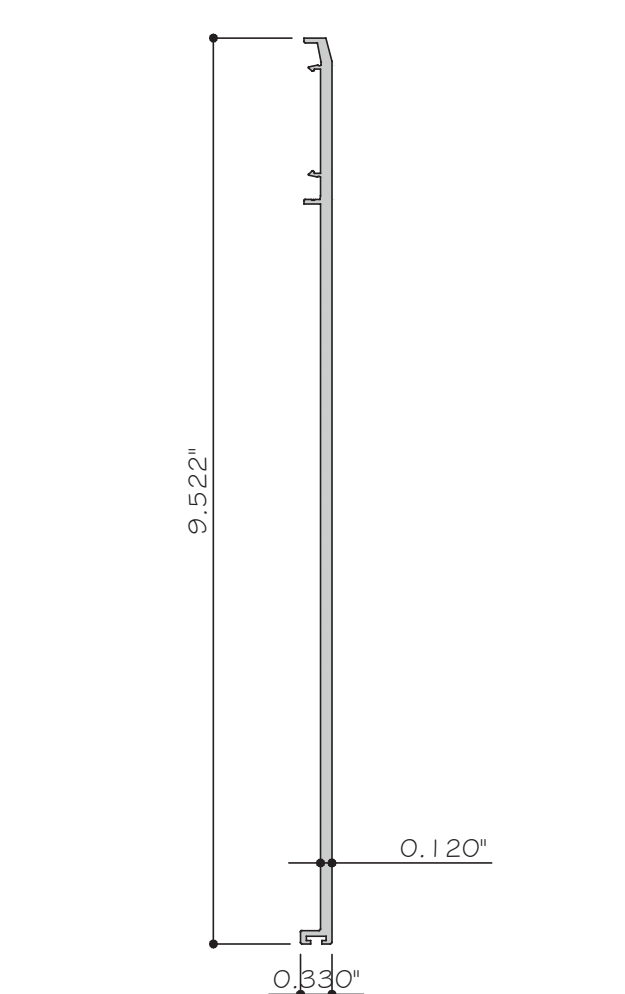
66 FRAME FRONT SILL
ES-SGD2020-054 6063-T6



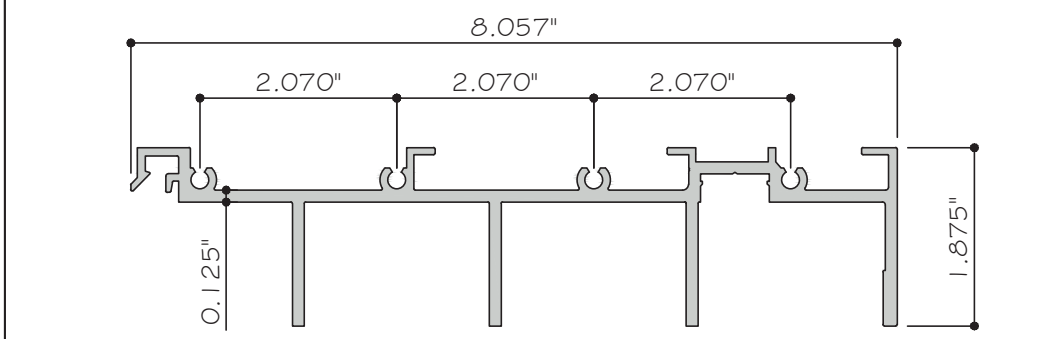
67 FRAME FRONT HEAD
ES-SGD2020-062 6063-T6



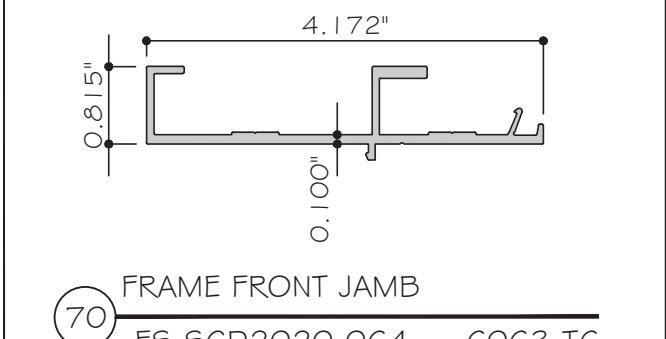
71 FRAME FRONT SILL
ES-SGD2020-056 6063-T6



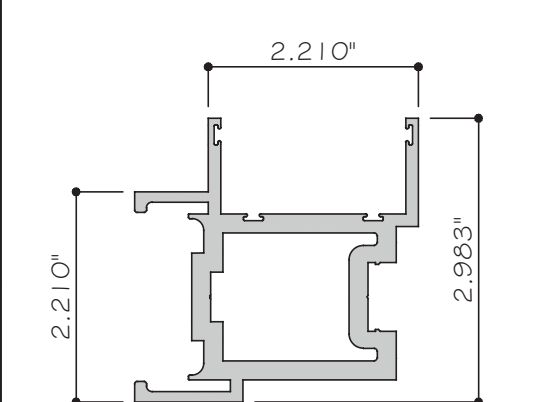
72 POCKET DOOR CLOSER - 5 TRACKS
ES-SGD2020-061 6063-T6



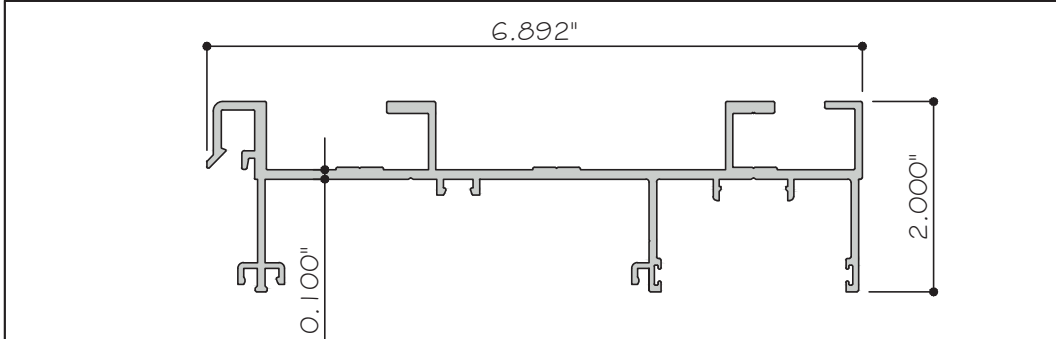
69 FRAME HEAD - 5 TRACKS
ES-SGD2020-063 6063-T6



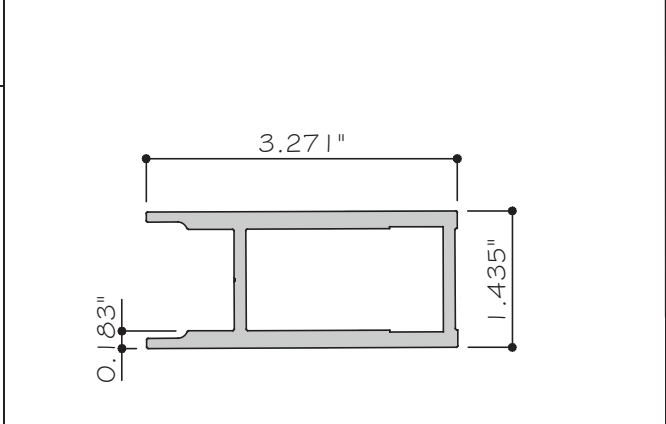
70 FRAME FRONT JAMB
ES-SGD2020-064 6063-T6



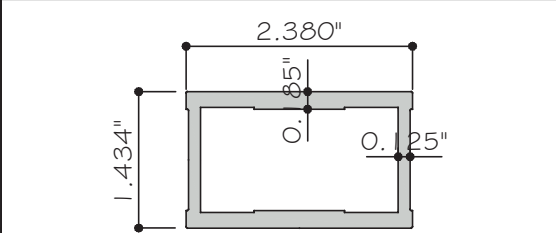
75 FRAME FRONT SILL
ES-SGD2020-068 6063-T6



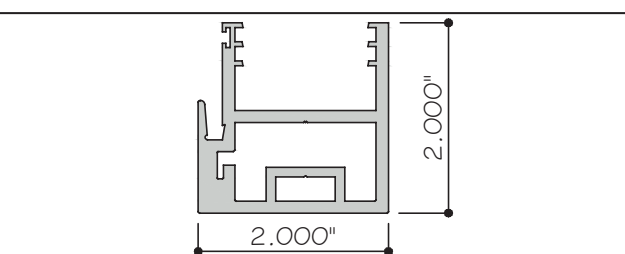
73 JAMB - 5 TRACKS
ES-SGD2020-065 6063-T6



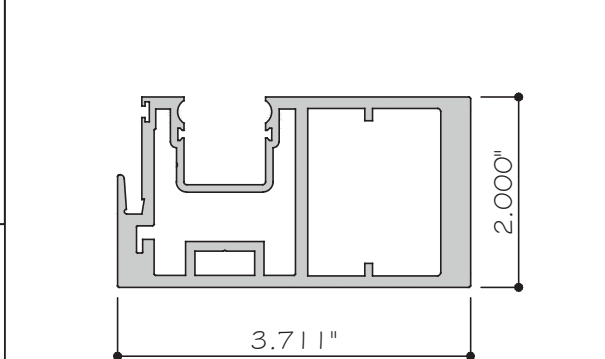
74 REINF. FOR LOCK STILE LAM. GLASS
ES-SGD2020-071 6063-T6



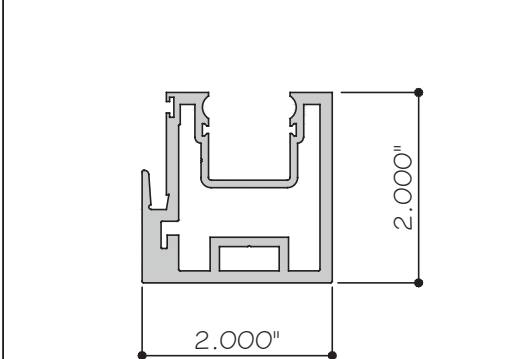
81 REINF. FOR LOCK STILE (INSL-LAM.)
ES-SGD2020-07X 6063-T6



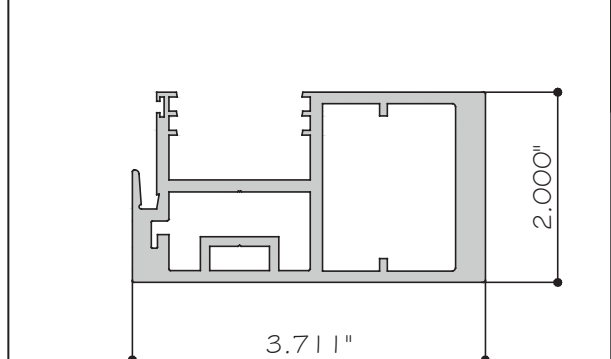
87A INTERLOCK FOR INSULATED LAMINATED GLASS
ES-SGD2020-087A 6005-T5



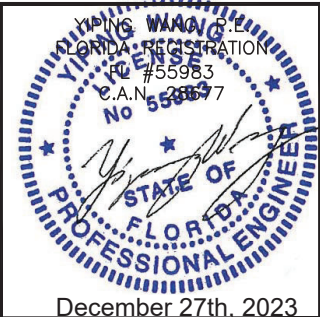
84A INTERLOCK HEAVY FOR LAMINATED GLASS
ES-SGD2020-084A 6005-T5



85A INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-085A 6005-T5



86A INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS
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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

Rev.	No.	Date	Drawn By	Description

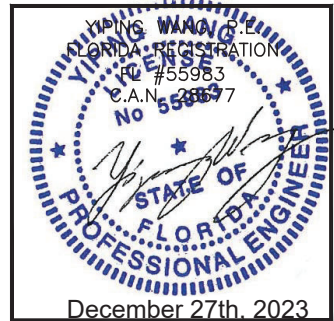
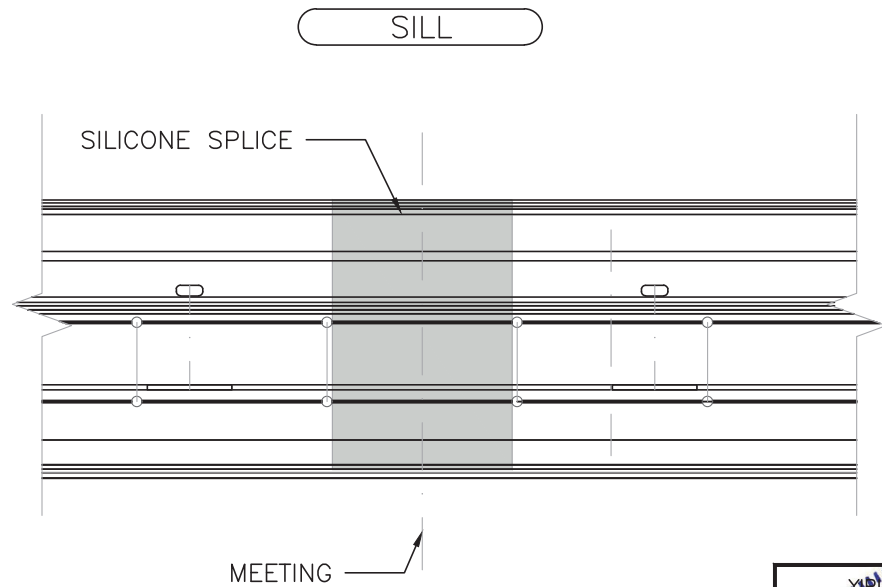
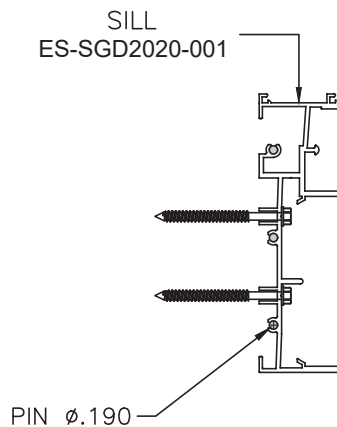
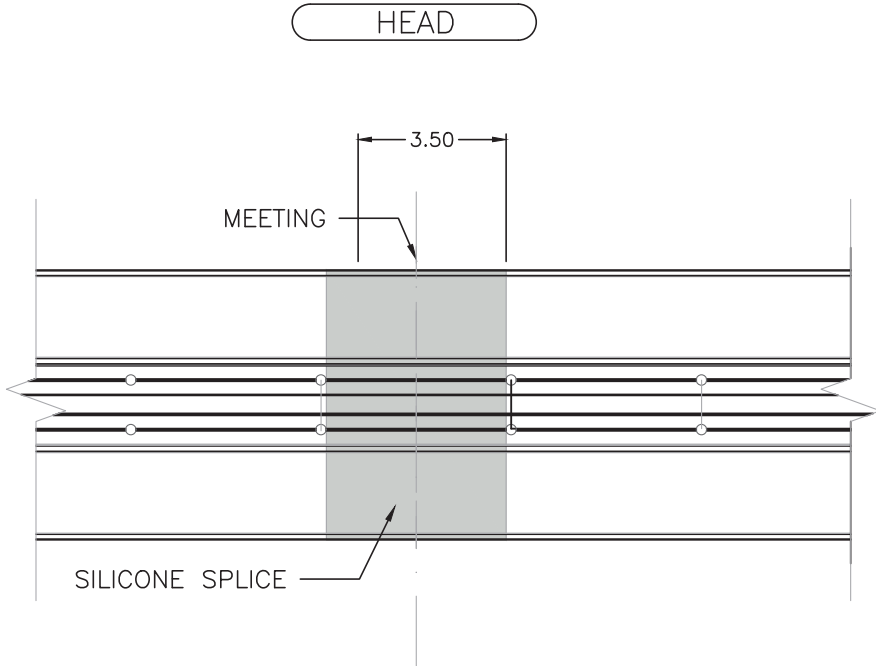
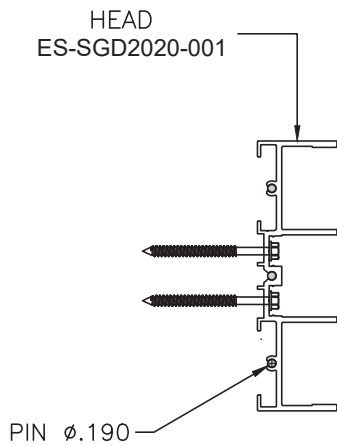
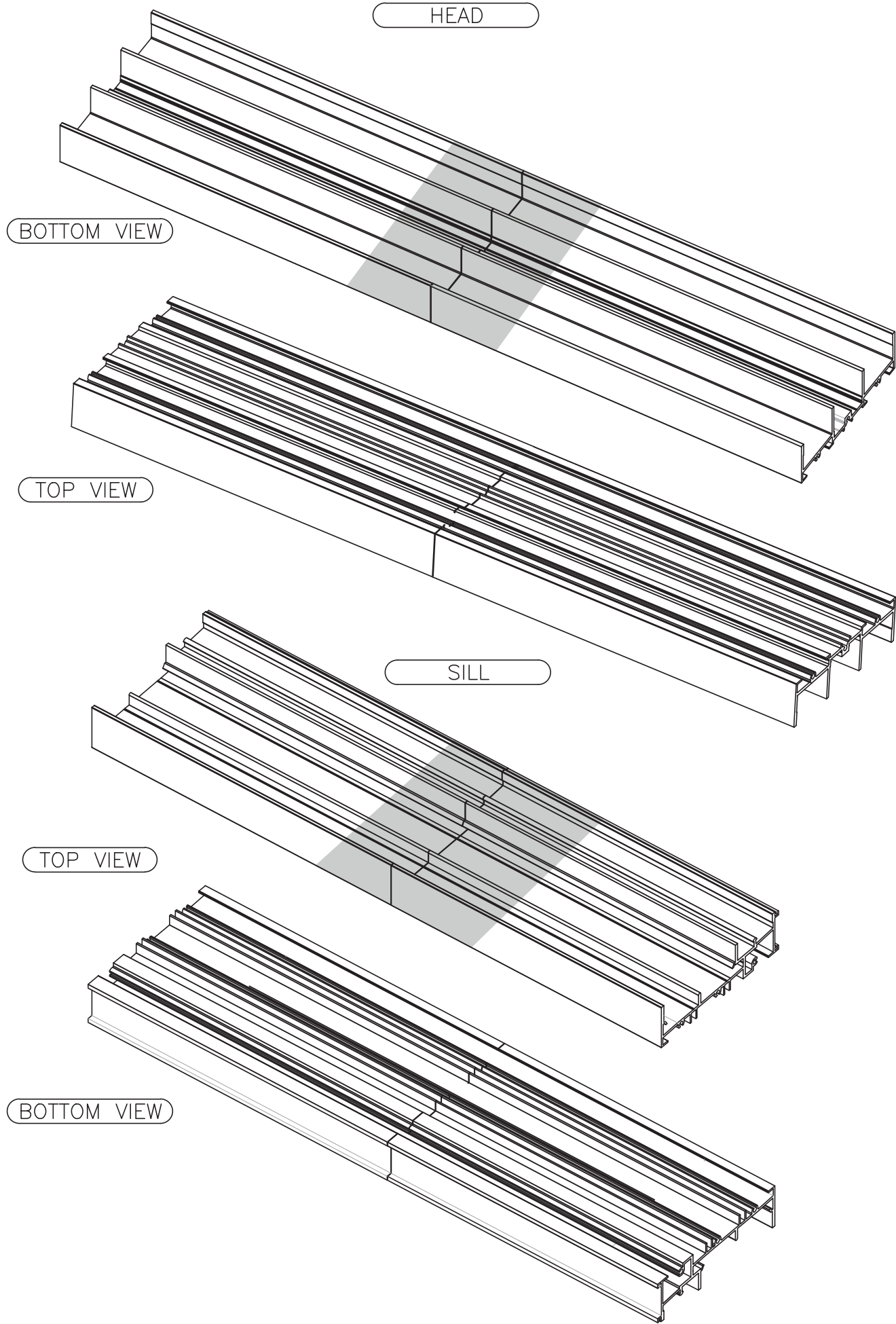
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12.04.2023

Scale

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PARTS

Sheet No.
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MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

Rev. No.	Date	Drawn By	Description
1	12.04.2023	James	

Drawn Date

12.04.2023

Scale

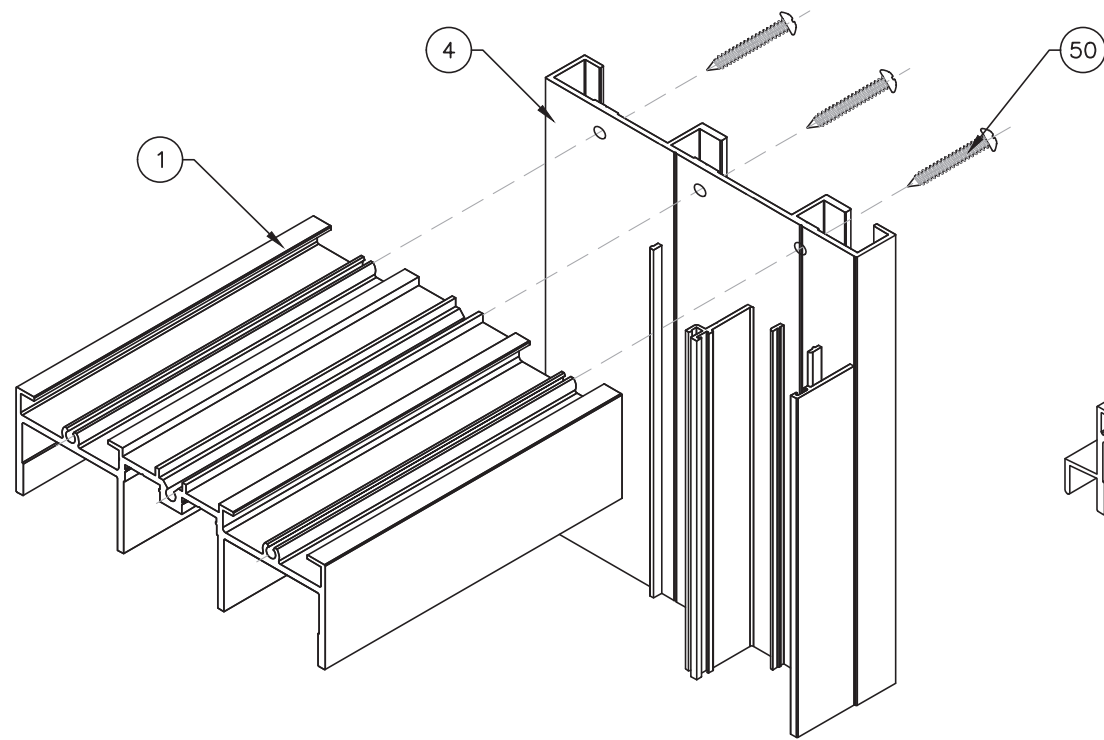
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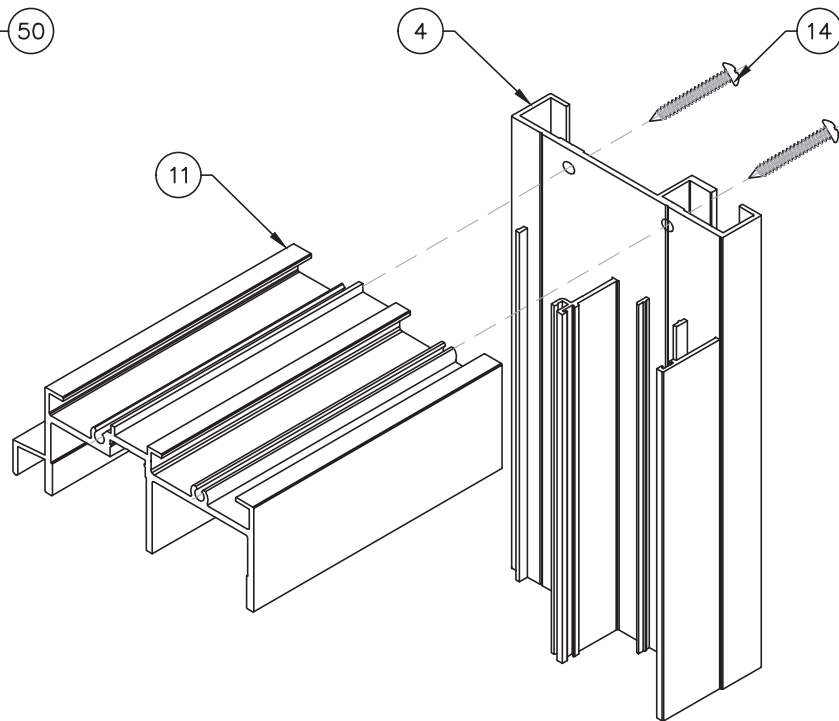
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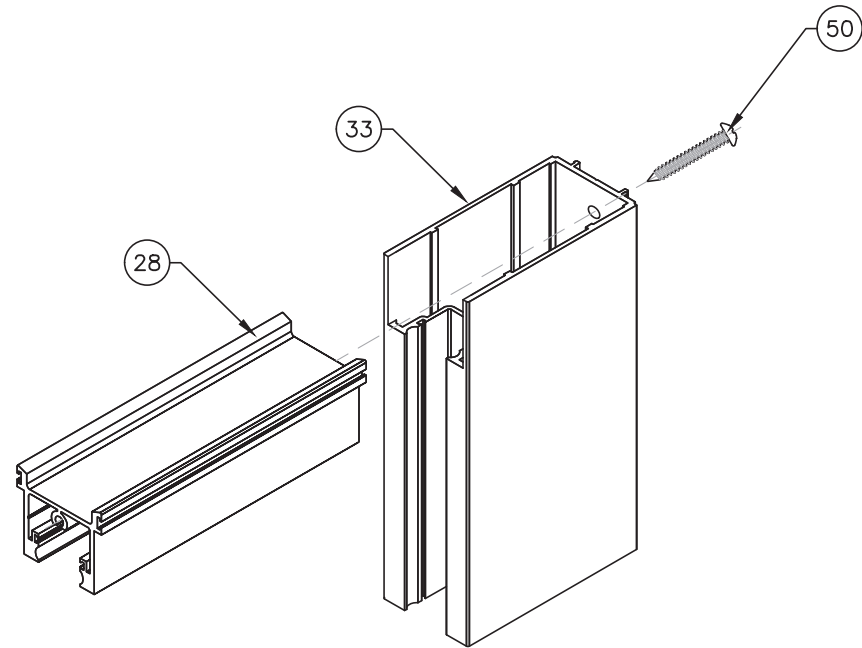
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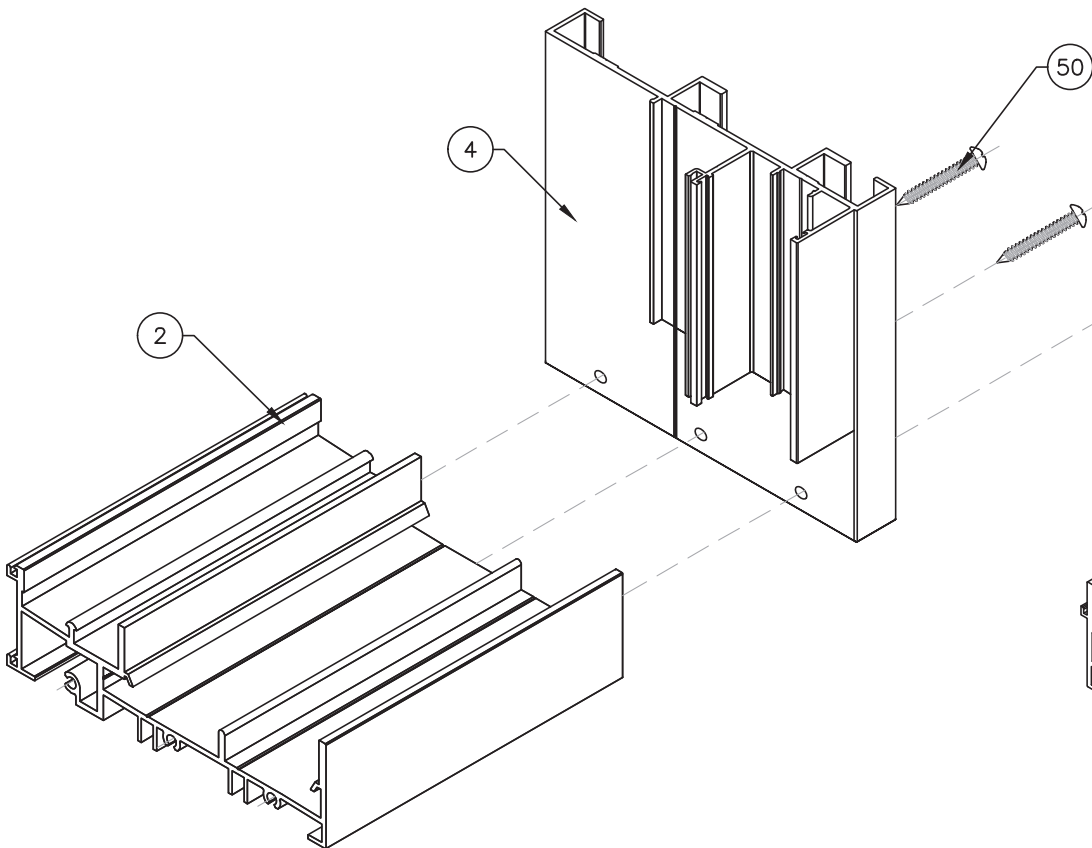
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3 TRACK SHOWN



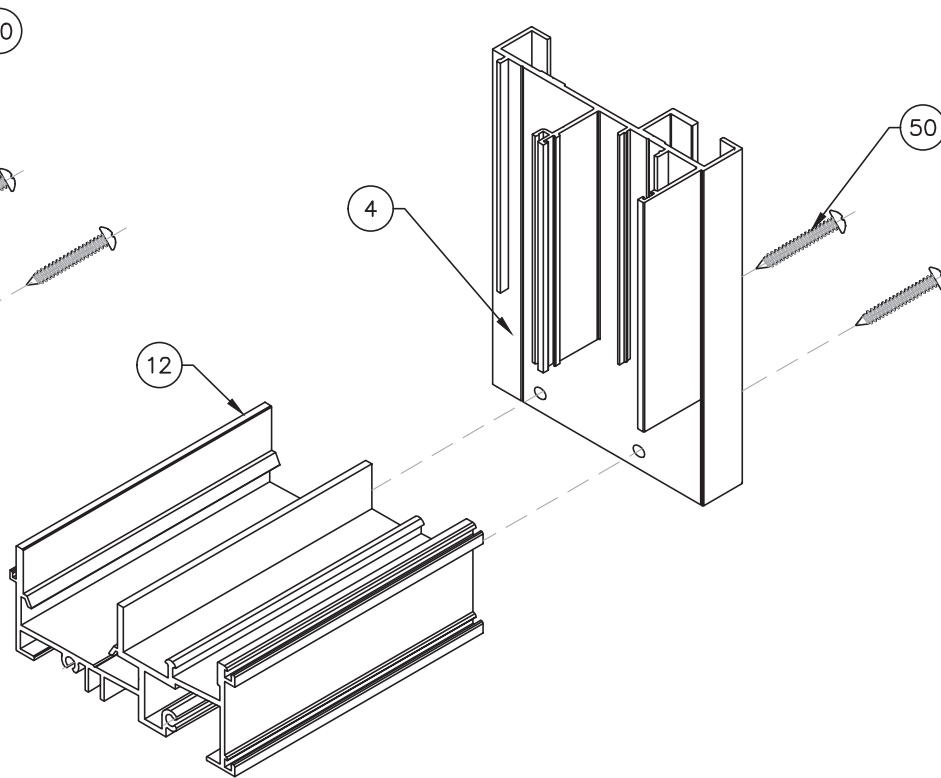
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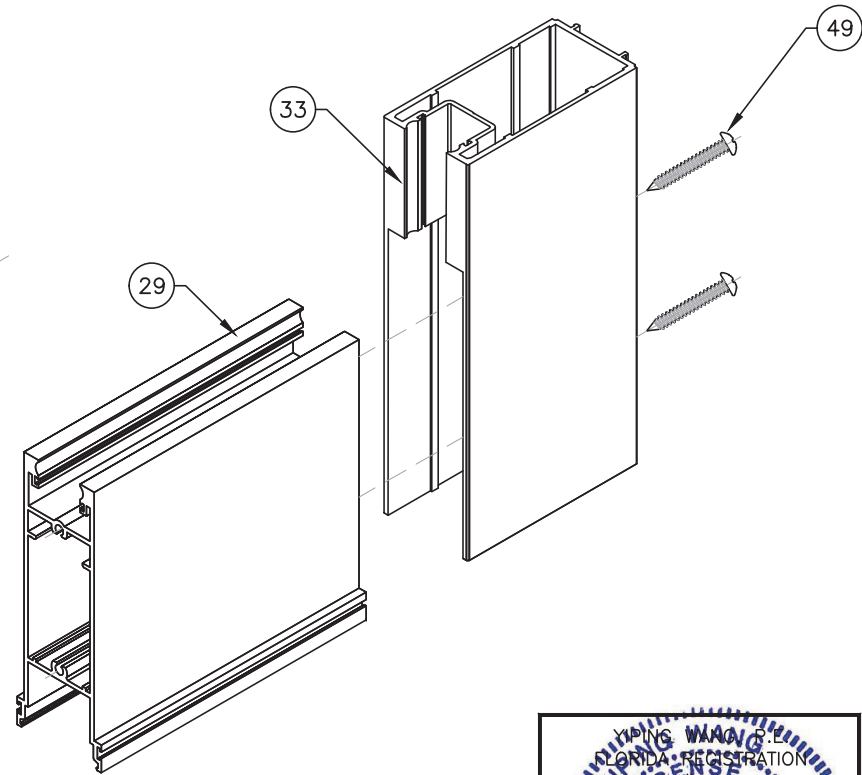
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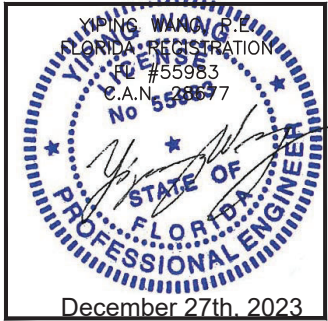
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3 TRACK SHOWN



FRAME BOTTOM CORNER
2 TRACK SHOWN



PANEL BOTTOM CORNER



Drawn Date 12.04.2023		Scale	
Drawing No. AD16-29		ISO	
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1	12.04.2023	James	REVISION