

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 7TH EDITION (2020) / 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 7TH EDITION (2020) / 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 7-16/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.

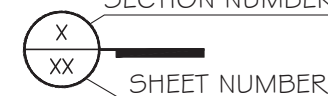
INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ASCE 7-22 STANDARD.
- STEP 2** SEE ALLOWABLE CONFIGURATIONS ON SHEETS EG THROUGH EI 2. SEE CHARTS ON SHEET GI FOR ALLOWABLE DESIGN LOAD BASED ON DESIRED GLASS TYPE. SEE CHARTS ON SHEET KI FOR INTERLOCK DESIGN LOAD.
- 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 AI 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	☉ - 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	



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 HERE/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.

YIYING WANG
FLORIDA REGISTRATION
No. 755963
C.A.N. 28697

September 07th, 2023

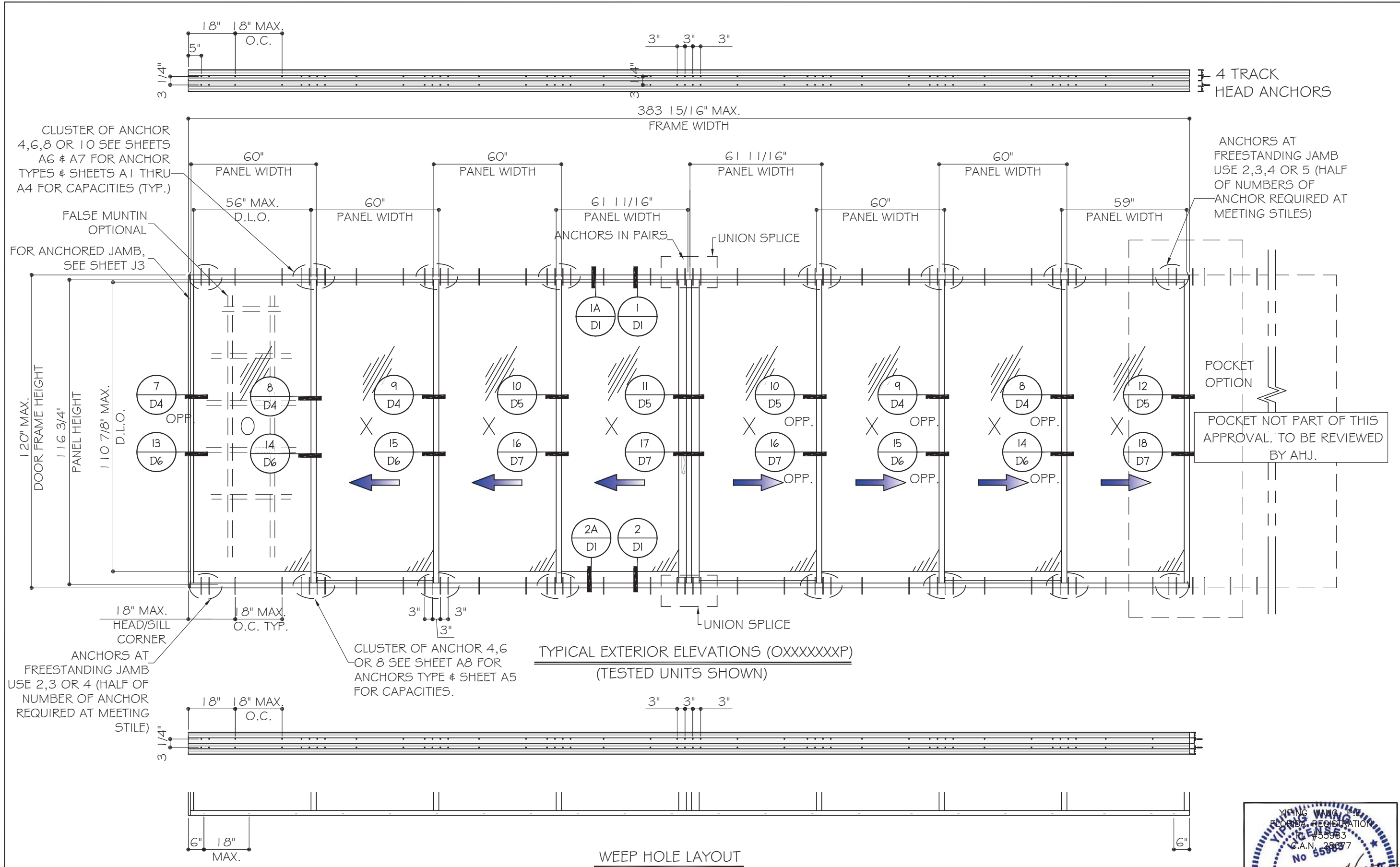
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

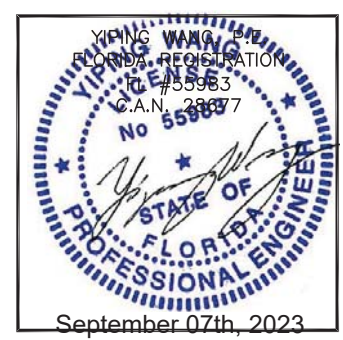
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

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R7	09.05.2023	James	UPDATE FBC 2023

Drawn Date 09.05.2023	Scale AS SHOWN
DRAWING NO. AD16-29	
COVER	
Sheet No. 01 OF 59	



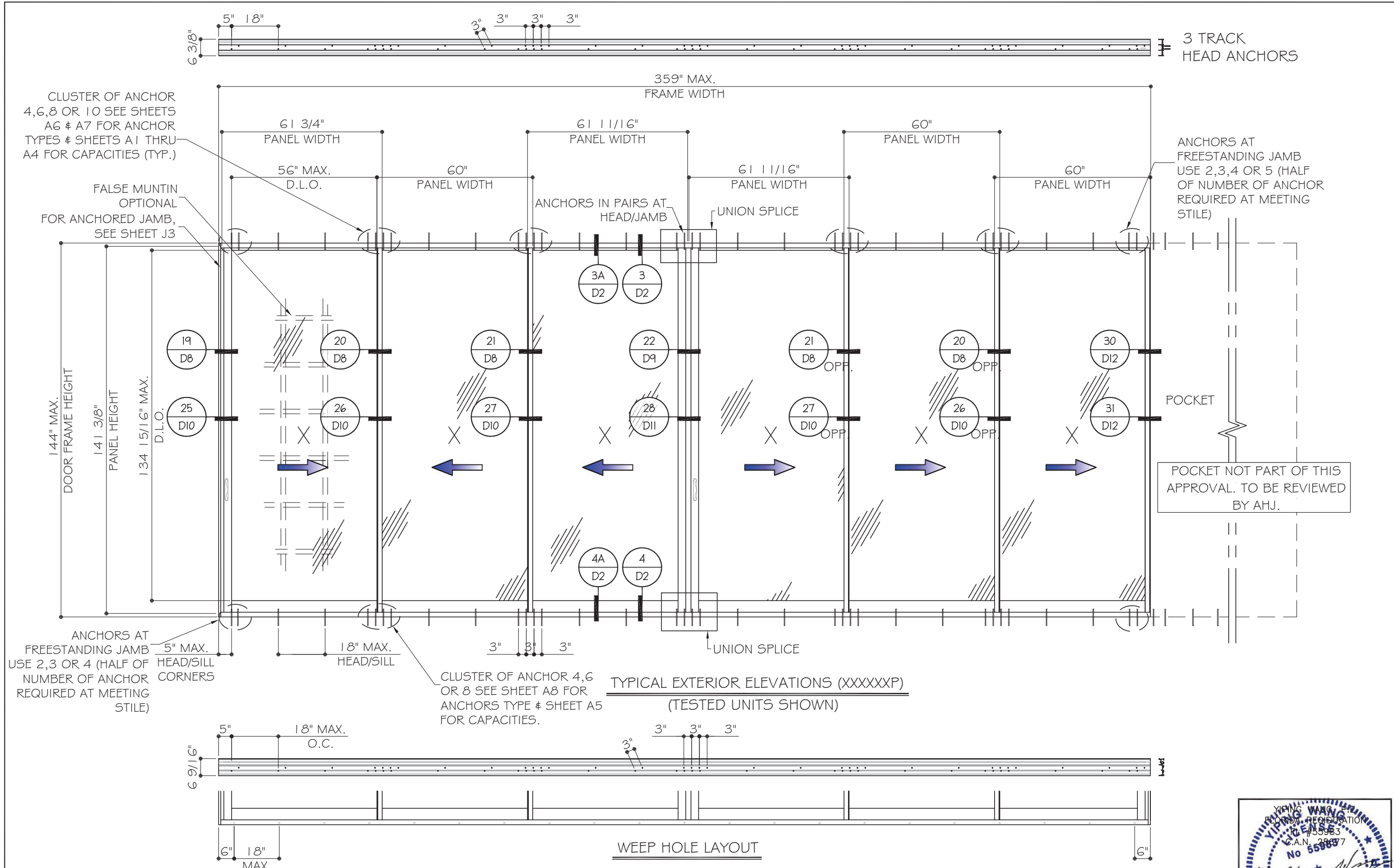
NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
 PANEL HEIGHT = FRAME HEIGHT - 2.625"
 D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
 D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



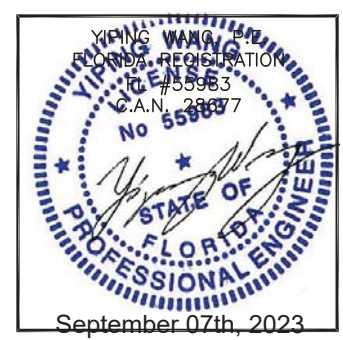
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 PANEL HEIGHT = FRAME HEIGHT - 2.625"
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 D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"

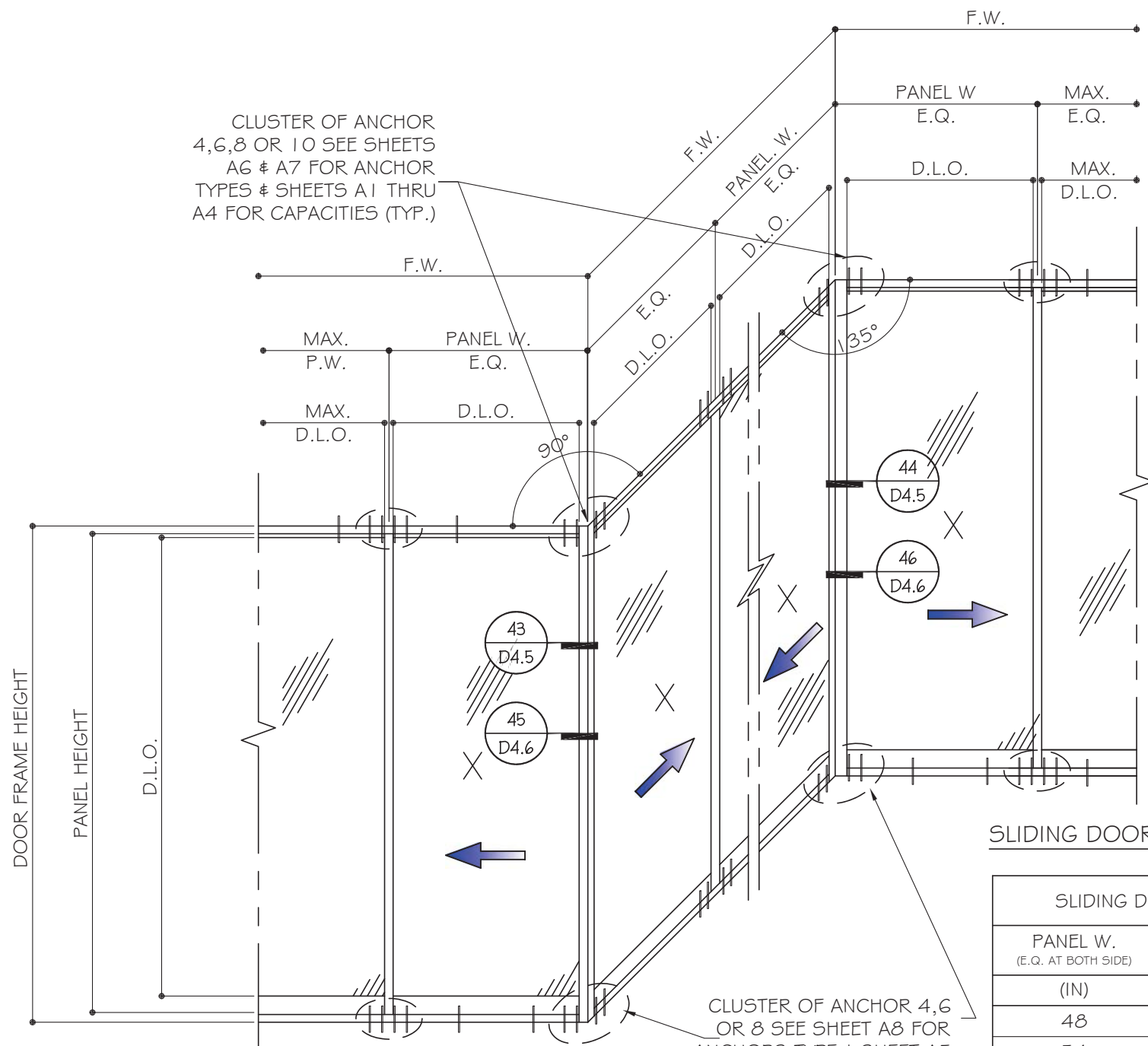


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CLUSTER OF ANCHOR 4,6,8 OR 10 SEE SHEETS A6 & A7 FOR ANCHOR TYPES & SHEETS A1 THRU A4 FOR CAPACITIES (TYP.)

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

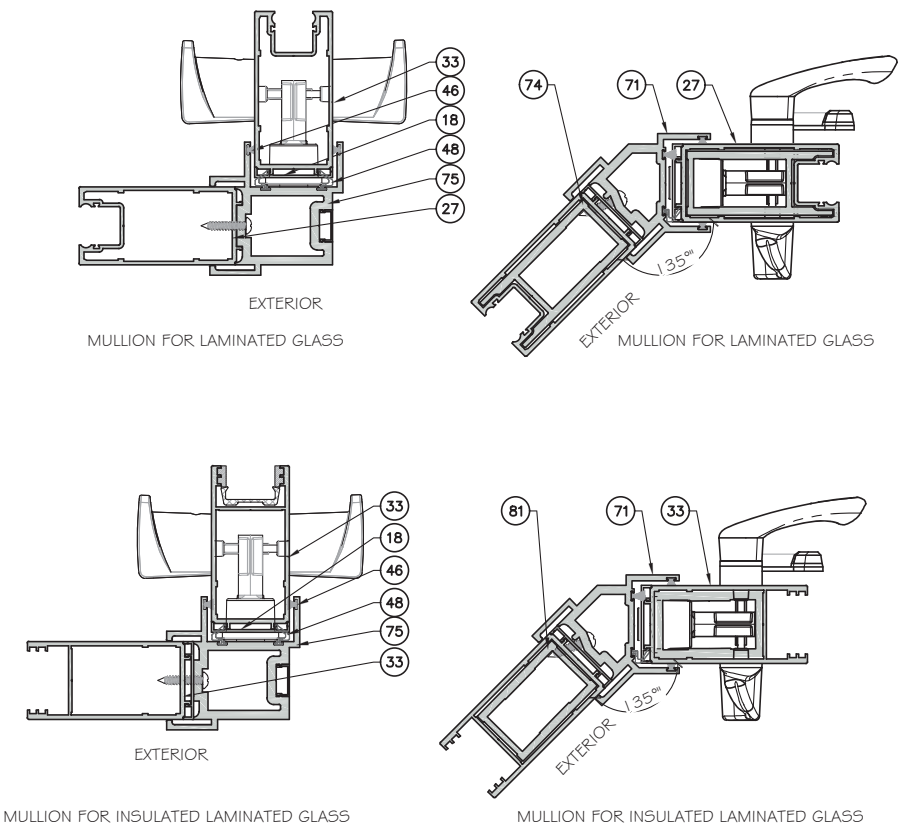
CORNER MULLIONS

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

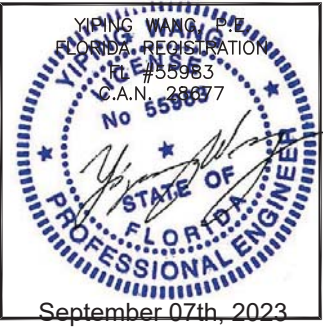
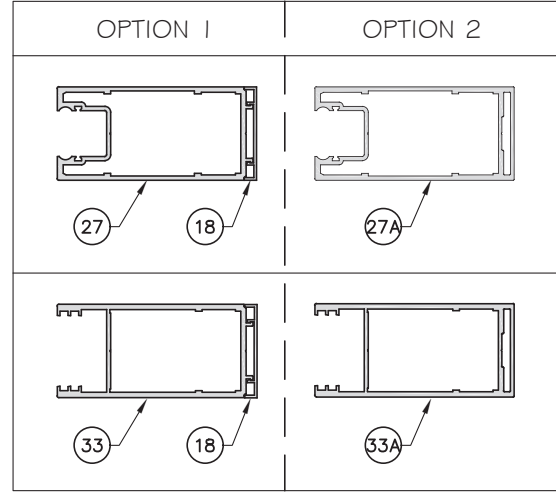
SLIDING DOOR WITH 90° & 135° TURN

SLIDING DOOR WITH CORNER STILES			
PANEL W. (E.Q. AT BOTH SIDE) (IN)	F.H. (IN)	ALLOW. DESIGN LOAD	
		(+) 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



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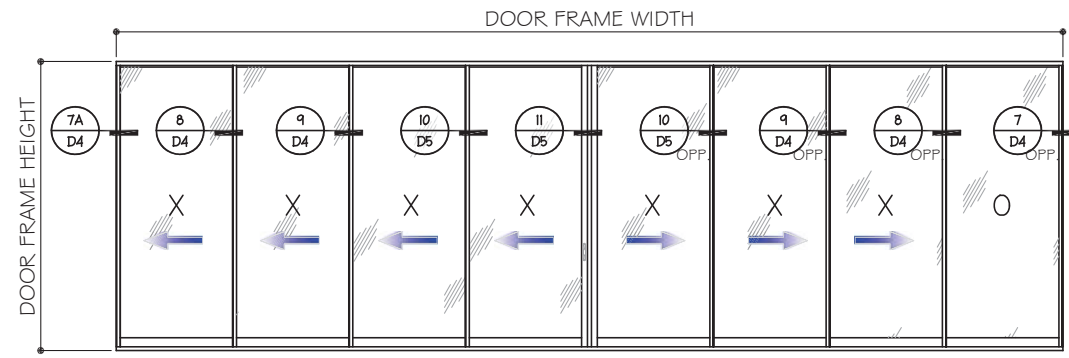
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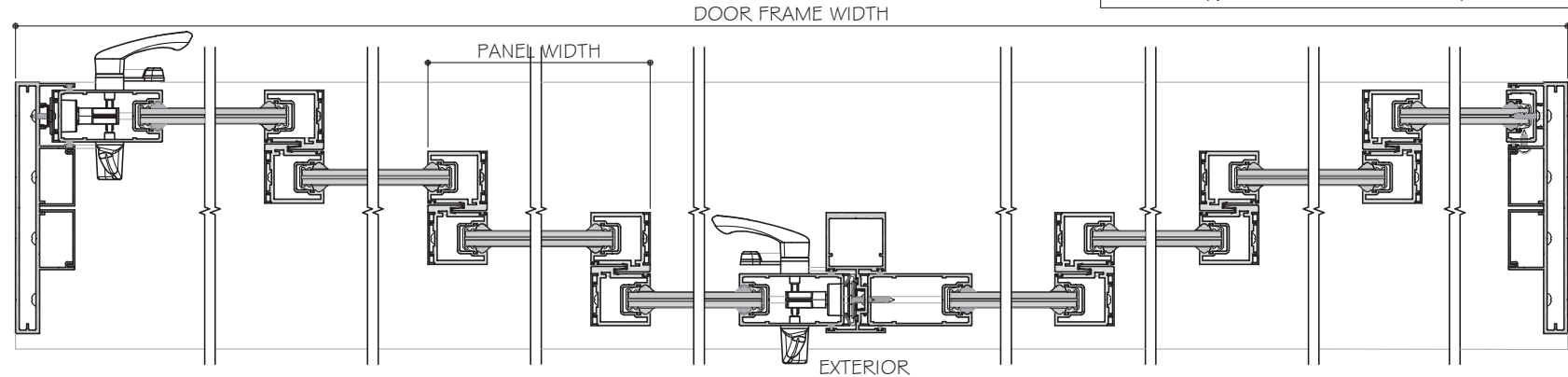
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS

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

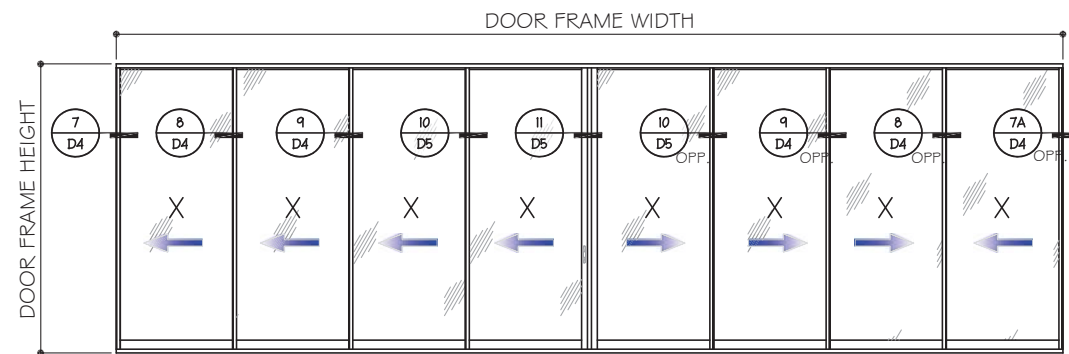
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



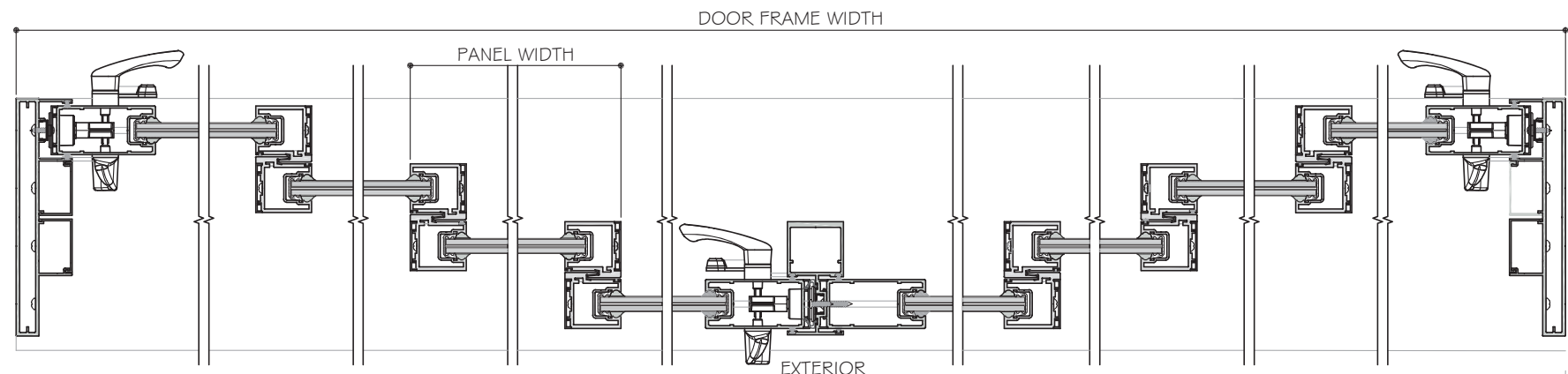
XXXXXXX (SHOWN)
OXXXXXX



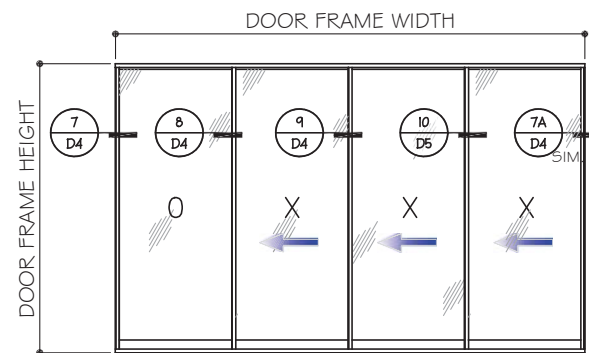
7A D4 DETAIL OPP. 8 D4 DETAIL 9 D4 DETAIL 10 D5 DETAIL 11 D5 DETAIL 10 D5 DETAIL OPP. 9 D4 DETAIL OPP. 8 D4 DETAIL OPP. 7 D4 DETAIL OPP.



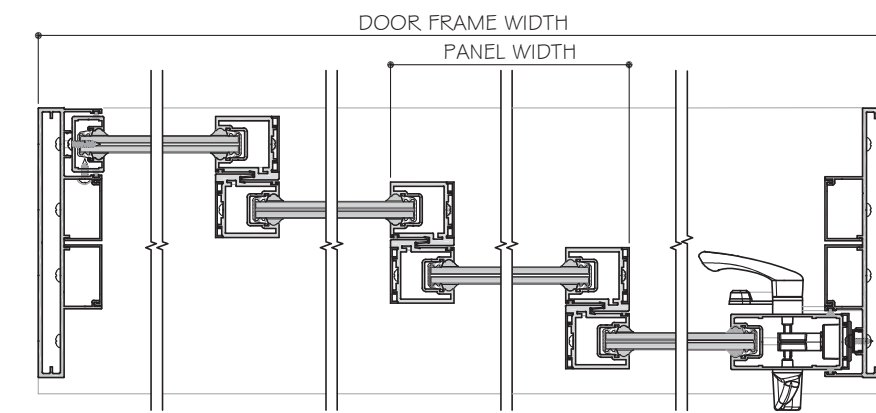
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7A D4 DETAIL OPP. 8 D4 DETAIL 9 D4 DETAIL 10 D5 DETAIL 11 D5 DETAIL 10 D5 DETAIL OPP. 9 D4 DETAIL OPP. 8 D4 DETAIL OPP. 7A D4 DETAIL



OXXX (SHOWN)
XXXX
XXXX



7 D4 DETAIL 8 D4 DETAIL 9 D4 DETAIL 10 D5 DETAIL 7A D4 DETAIL SIM.

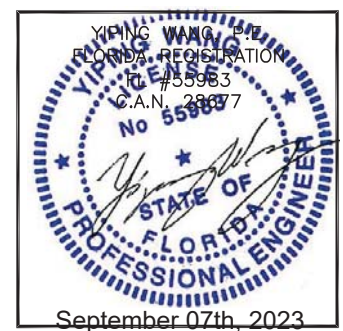
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 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
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FOUR (4) TRACKS

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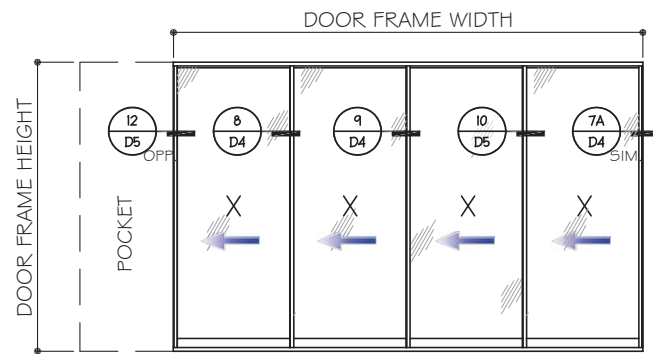
DRAWING NO. AD16-29

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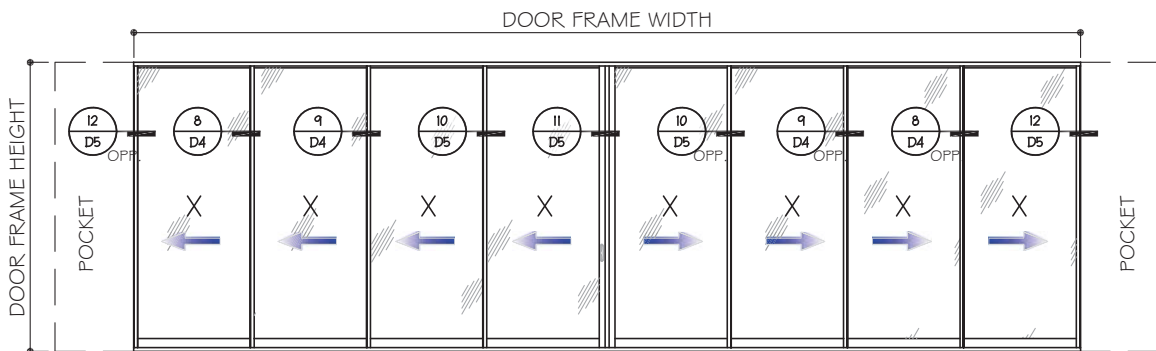
APPROVED CONFIGURATION POCKETED DOORS

(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



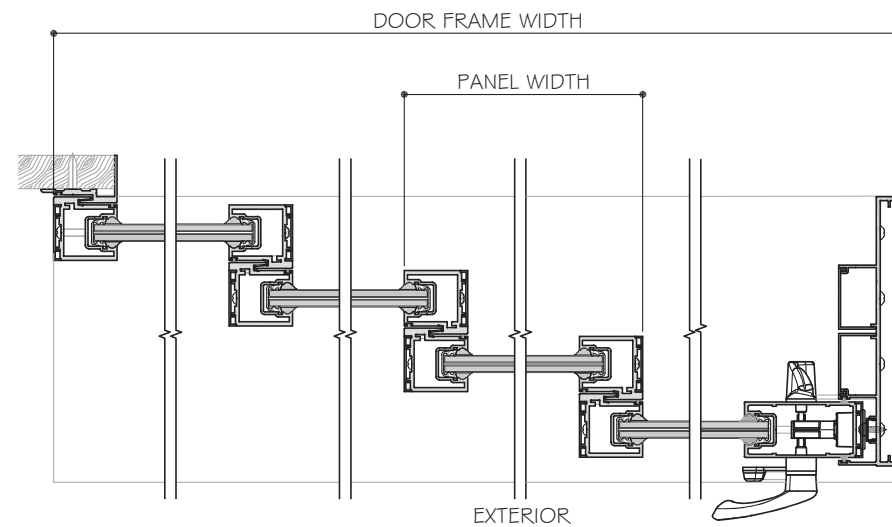
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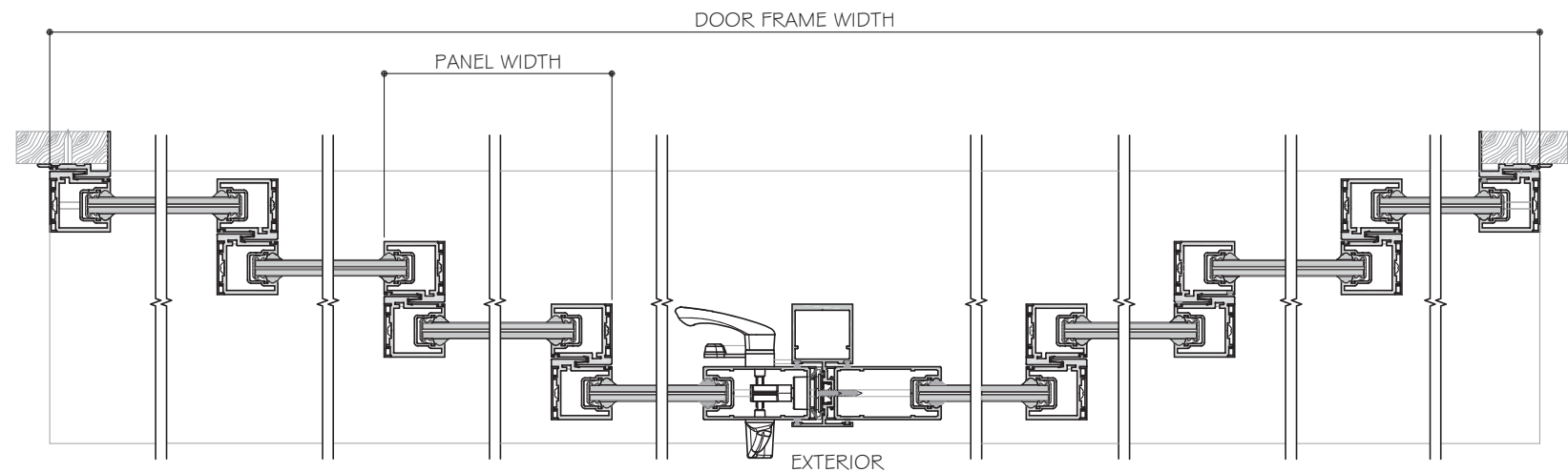
PXXXXXXXXP (SHOWN)
PXXXXXXXX
XXXXXXXXXP
OXXXXXXXXP
PXXXXXXXXO

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SEE DETAILS FOR INSULATED LAMINATED OPTION.

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TRACKS), D13 TO D16 FOR (2 TRACKS).



12/D5 DETAIL OPP.
8/D4 DETAIL
9/D4 DETAIL
10/D5 DETAIL
7A/D4 DETAIL SIM.



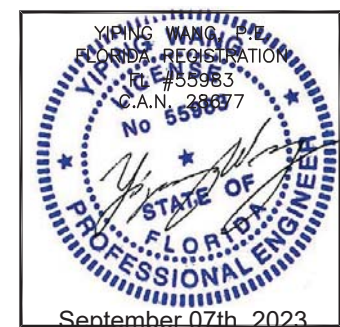
12/D5 DETAIL OPP.
8/D4 DETAIL
9/D4 DETAIL
10/D5 DETAIL
11/D5 DETAIL
10/D5 DETAIL OPP.
9/D4 DETAIL OPP.
8/D4 DETAIL OPP.
12/D5 DETAIL

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5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
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FOUR (4) TRACKS

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AND ARE TO BE REVIEWED BY AHJ.



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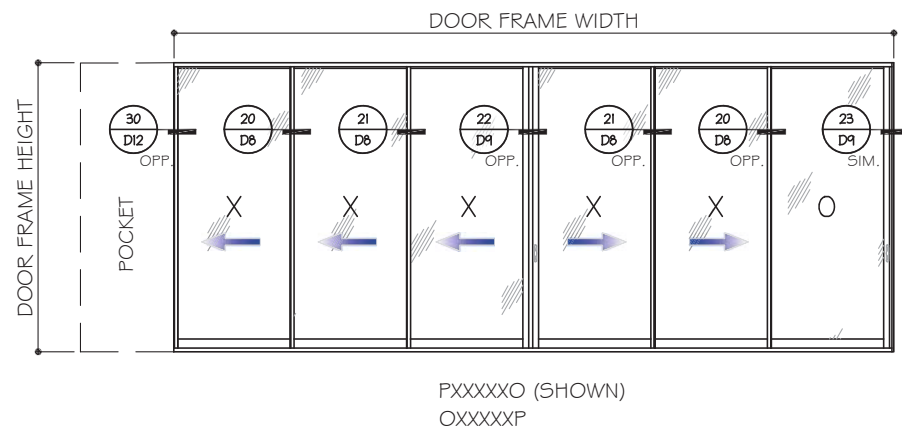
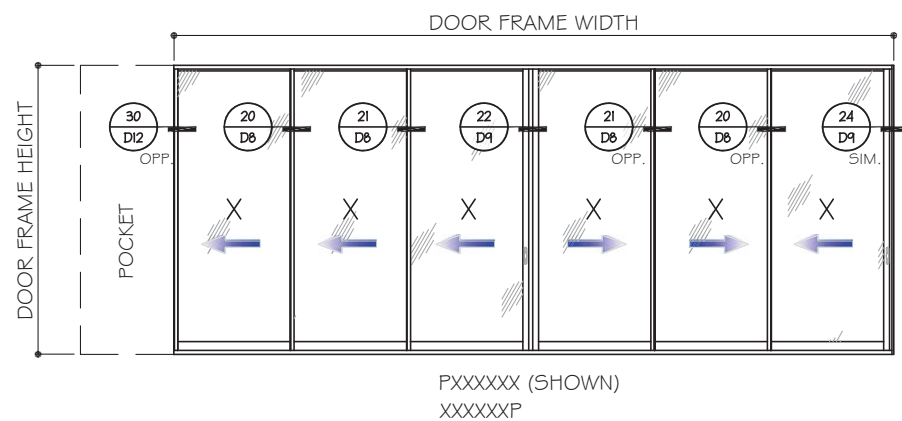
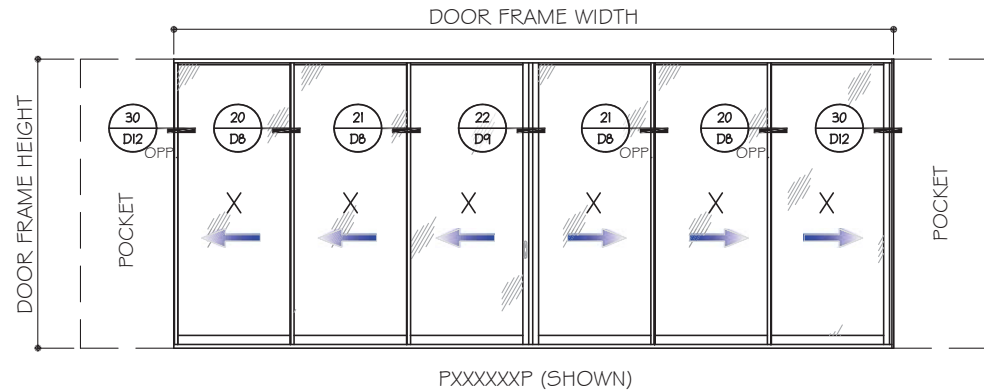
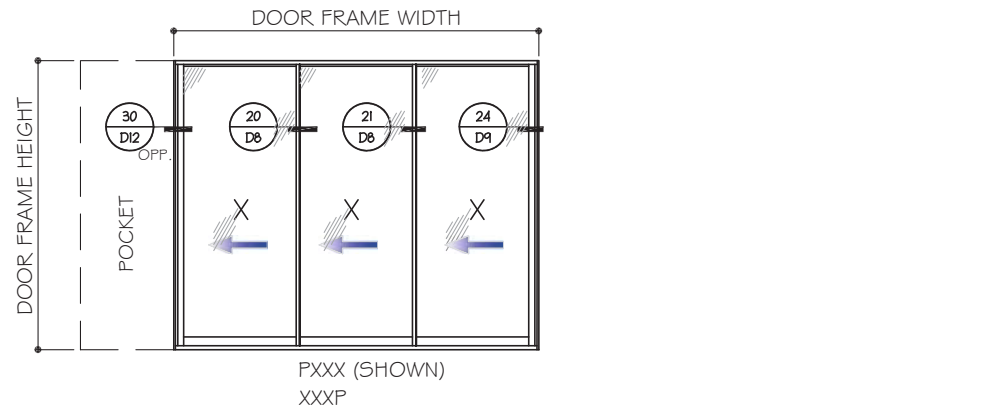
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APPROVED CONFIGURATION POCKETED DOORS

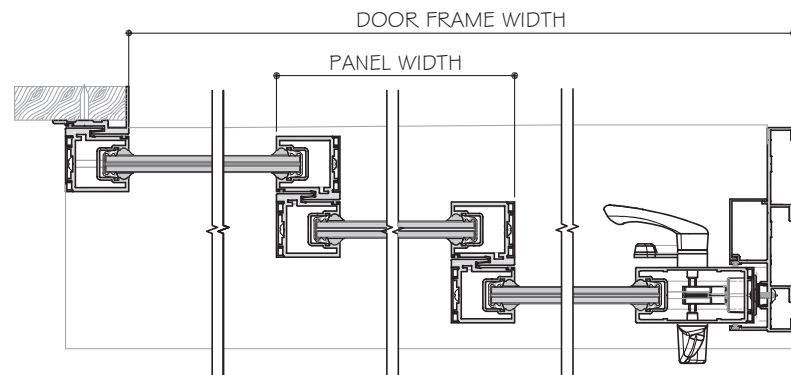
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SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS

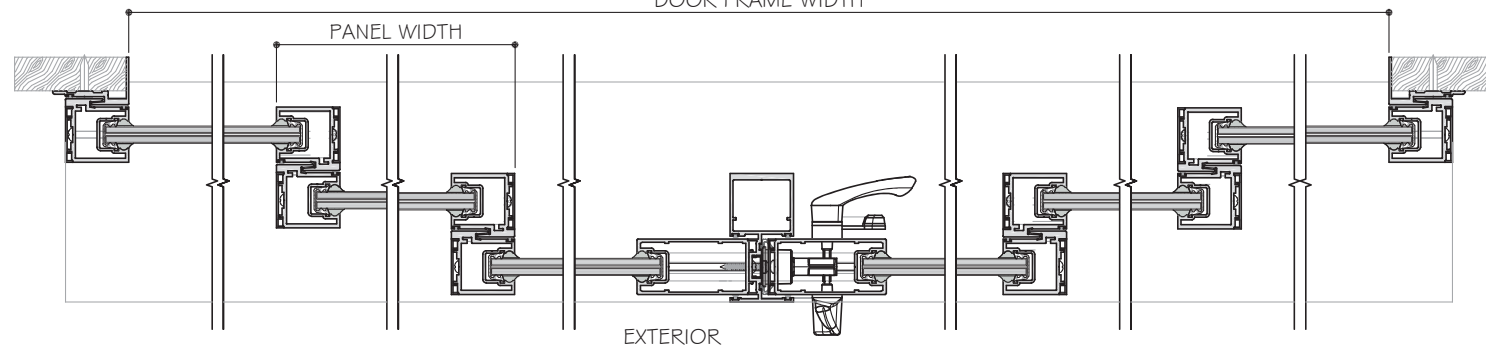


THREE (3) TRACKS

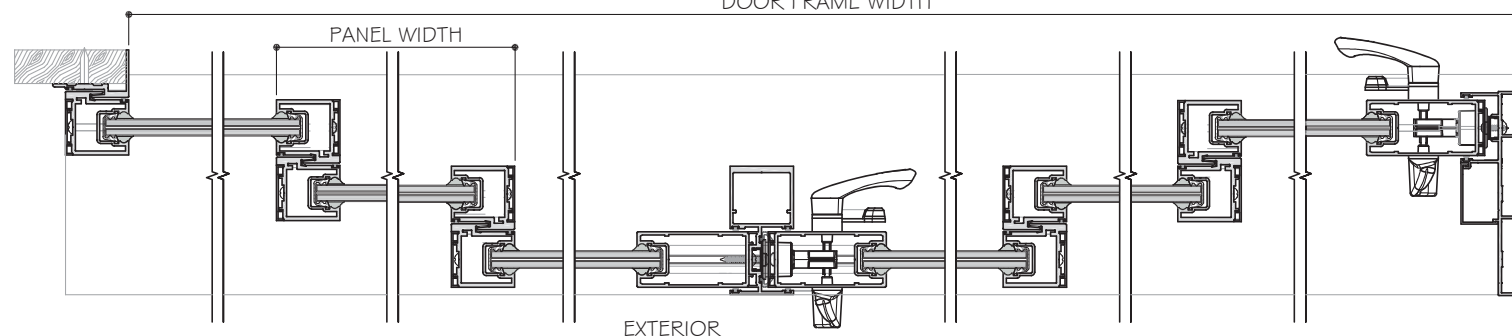
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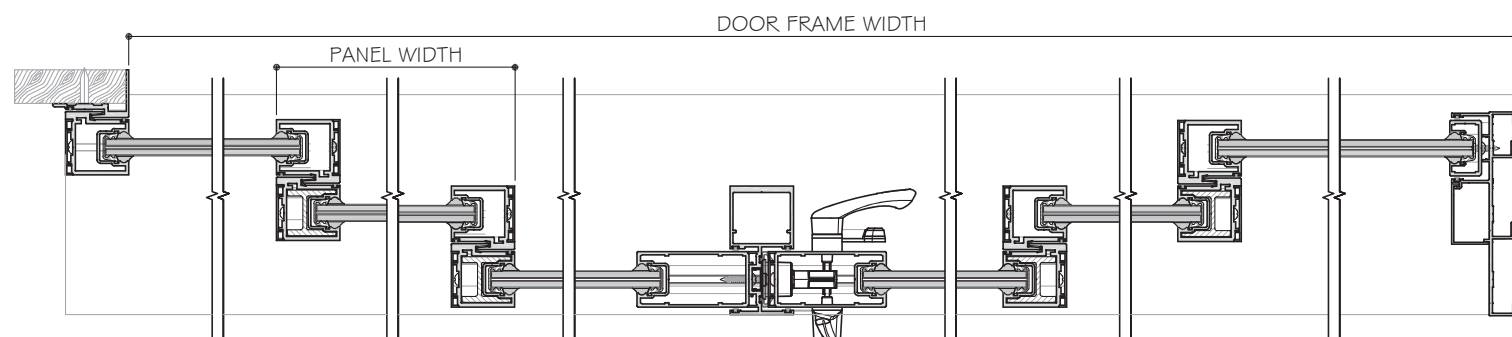
30 D12 OPP. DETAIL, 20 D8 DETAIL, 21 D8 DETAIL, 24 D9 DETAIL



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30 D12 OPP. DETAIL, 20 D8 DETAIL, 21 D8 DETAIL, 22 D9 DETAIL, 21 D8 OPP. DETAIL, 20 D8 OPP. DETAIL, 24 D9 SIM. DETAIL



30 D12 OPP. DETAIL, 20 D8 DETAIL, 21 D8 DETAIL, 22 D9 DETAIL, 21 D8 OPP. DETAIL, 20 D8 OPP. DETAIL, 23 D9 SIM. DETAIL

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).

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

NOTES:

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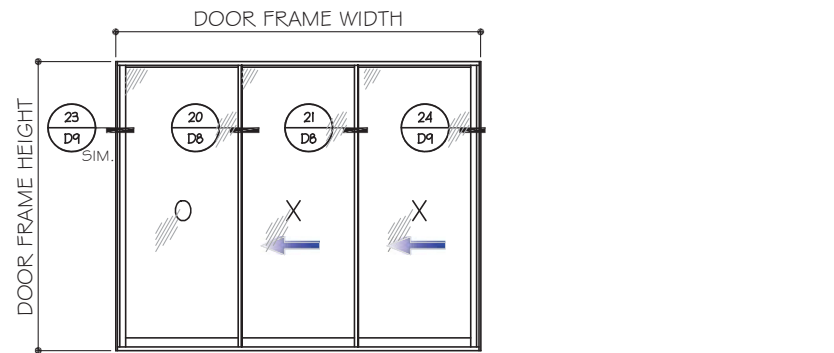
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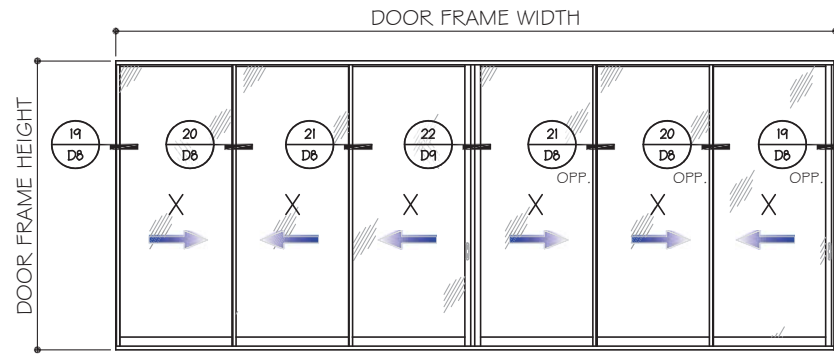
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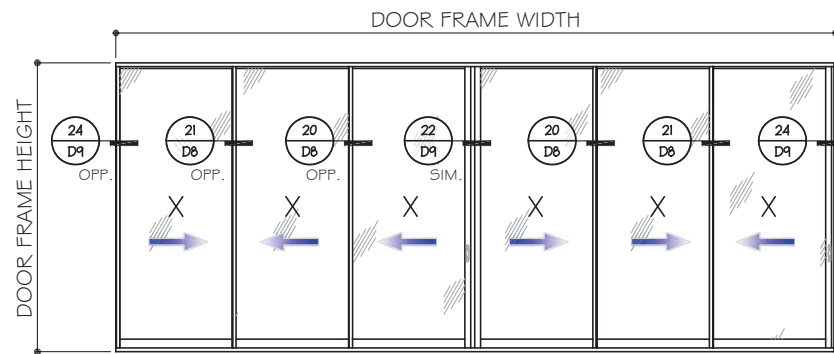
APPROVED CONFIGURATION DOORS
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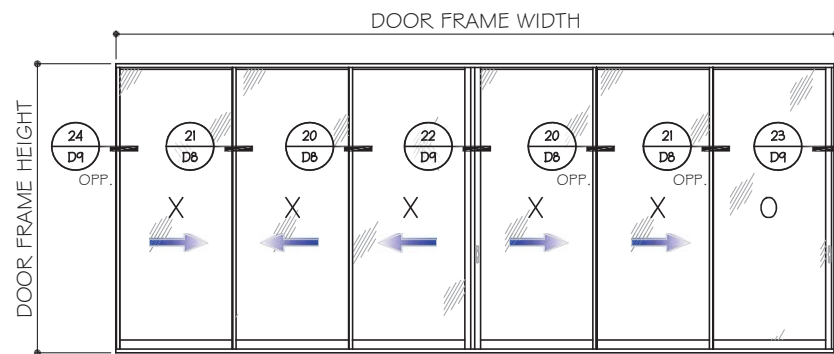
OXX (SHOWN)
XXO
XXX (# REVERSE)



XXXXX (SHOWN)
OXXXXO



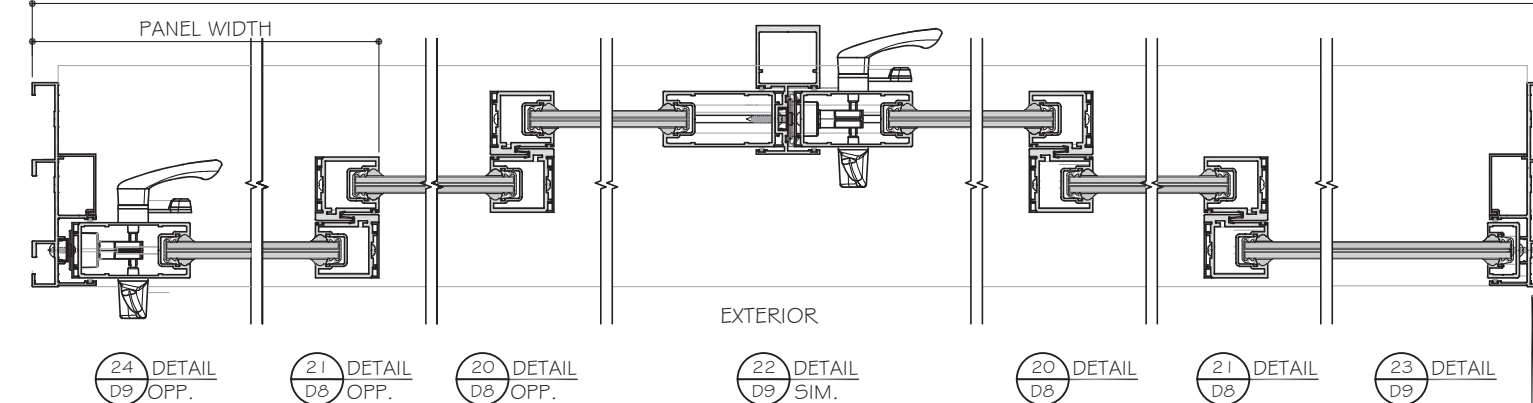
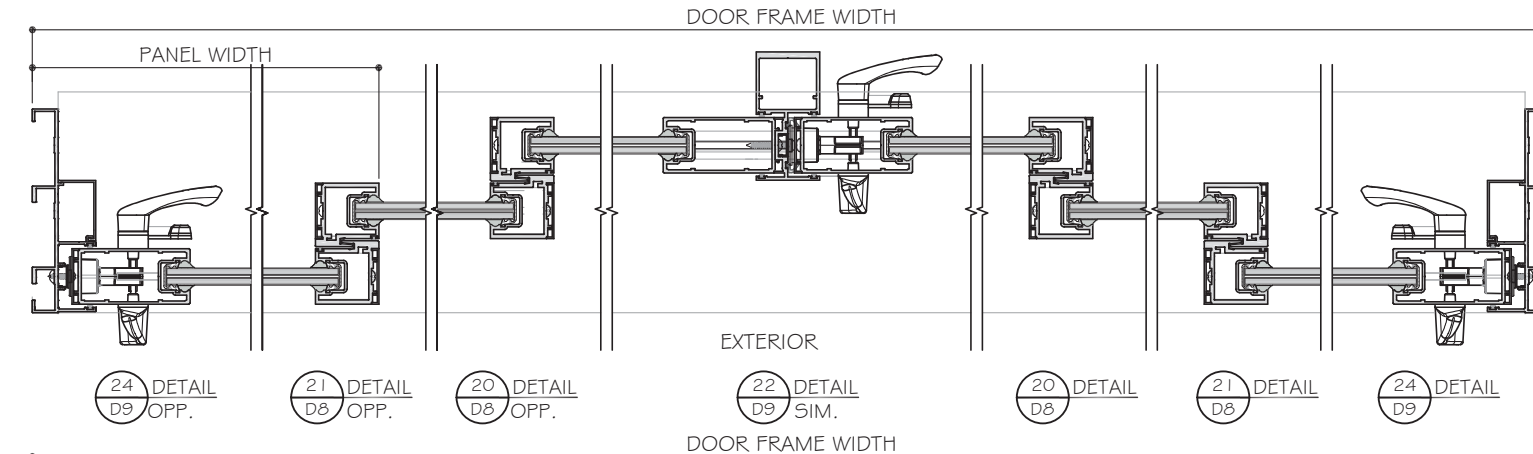
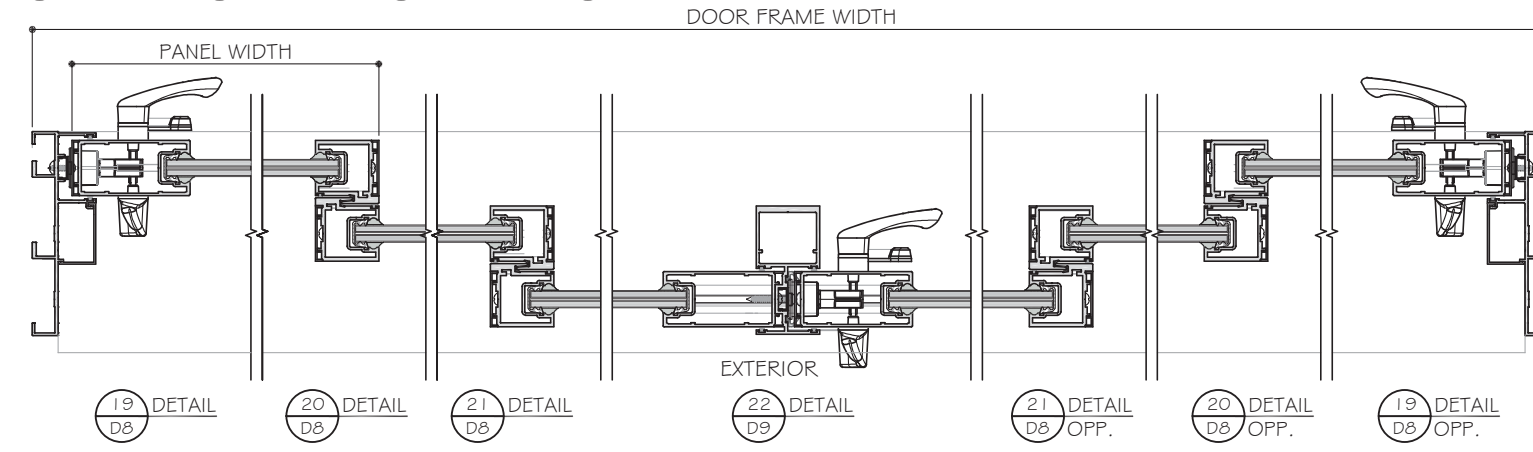
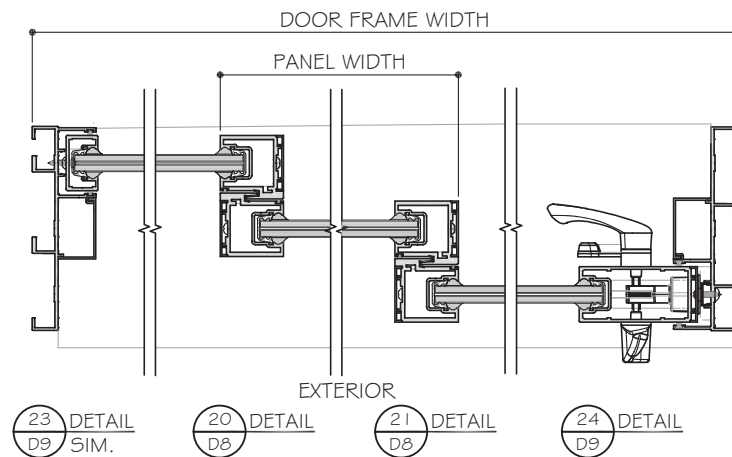
XXXXX (SHOWN)



XXXXXO (SHOWN)
OXXXXO

THREE (3) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.



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).

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

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.



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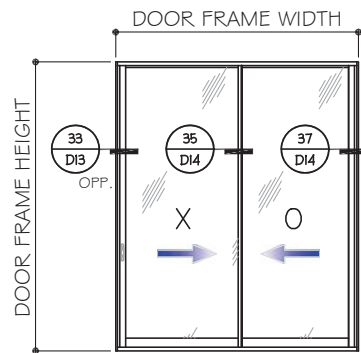
ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R7	09.05.2023	James	UPDATE FBC 2023
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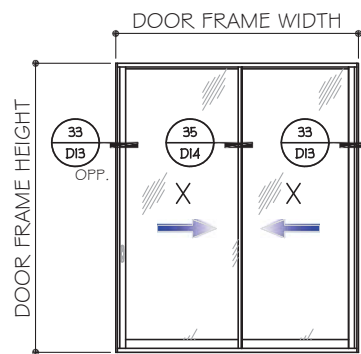
APPROVED CONFIGURATION DOORS

(NON-REINFORCED SHOWN)

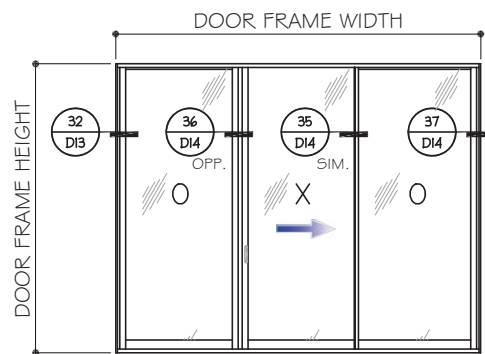
SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



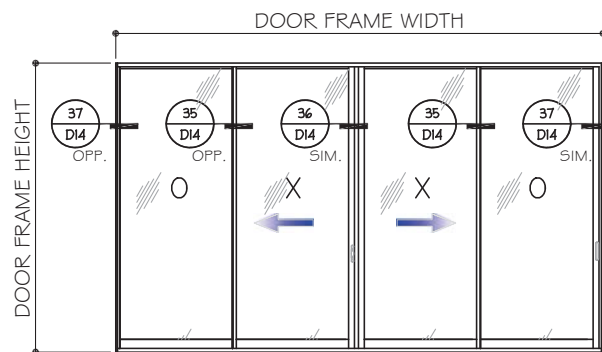
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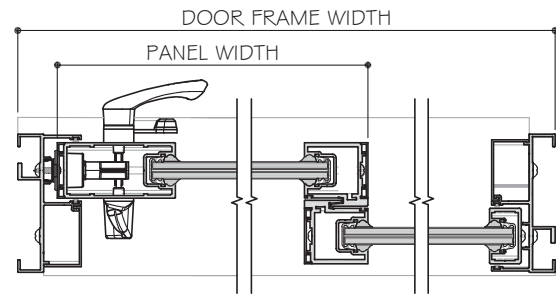
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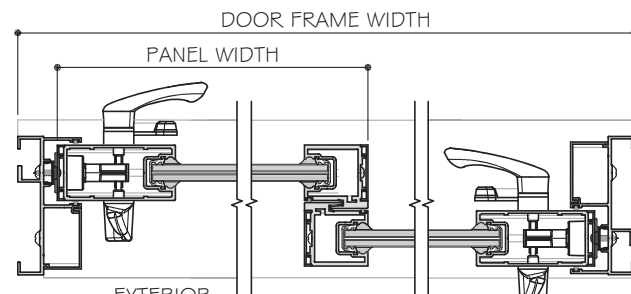
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OXO (REVERSE)



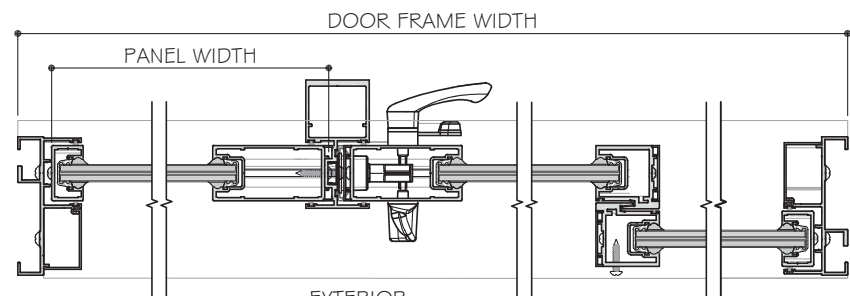
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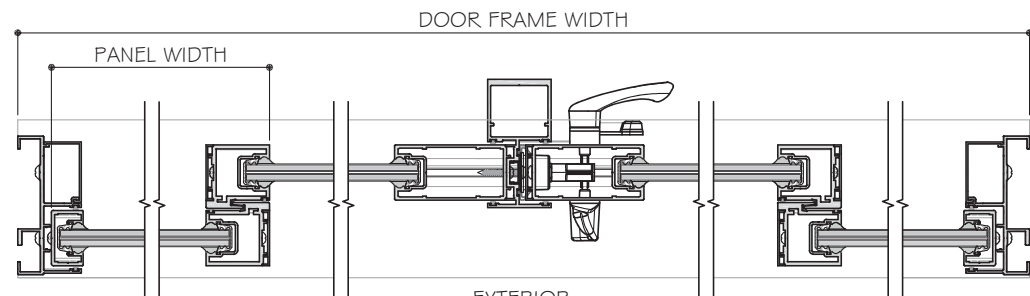
33 DETAIL D13 OPP. 35 DETAIL D14 37 DETAIL D14



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

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

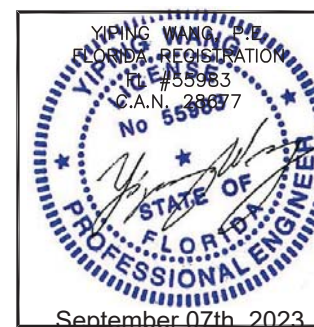
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4 TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3 TRACKS), D13 TO D16 FOR (2 TRACKS).

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.

TWO (2) TRACKS

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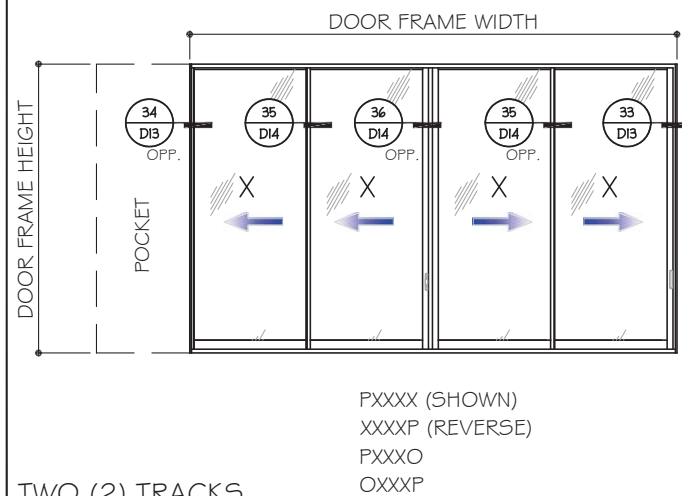
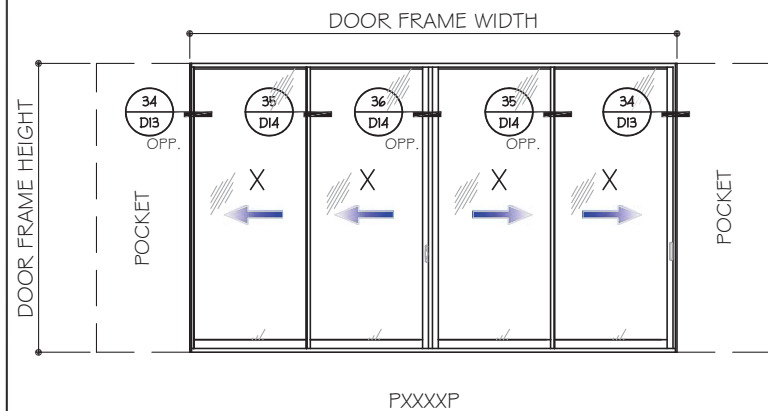
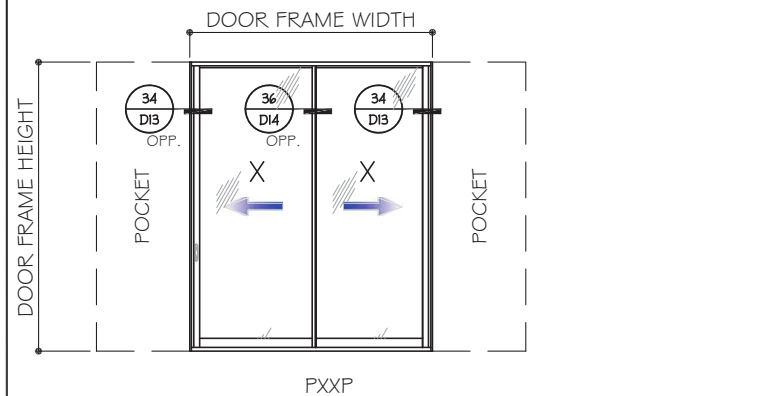
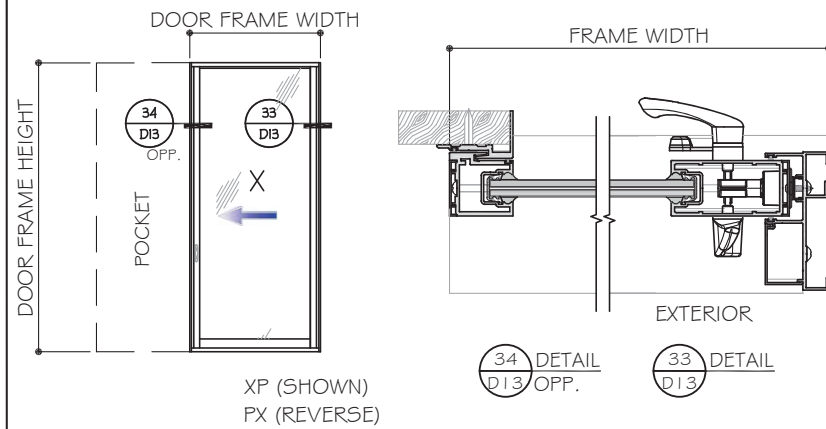
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APPROVED CONFIGURATION POCKETED DOORS

(NON-REINFORCED SHOWN)

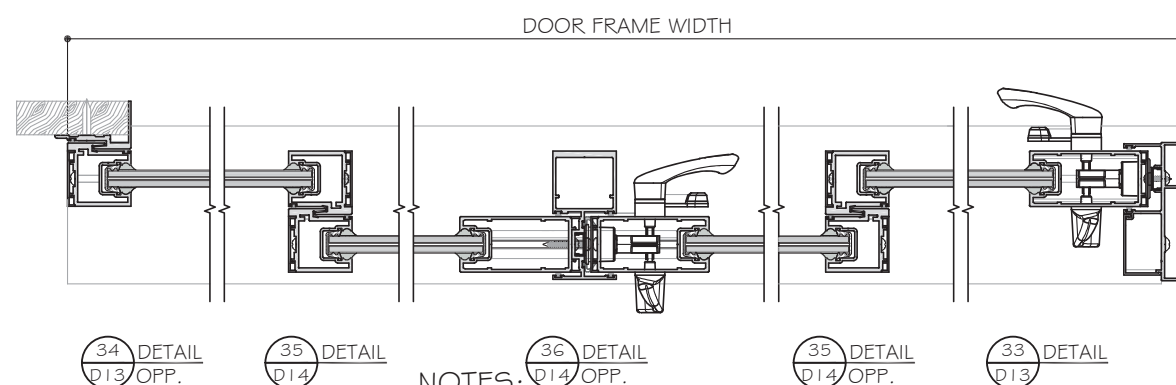
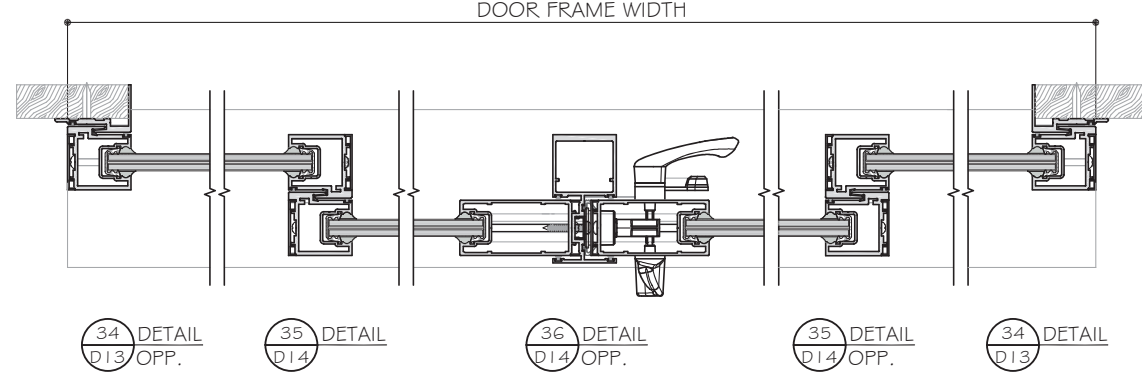
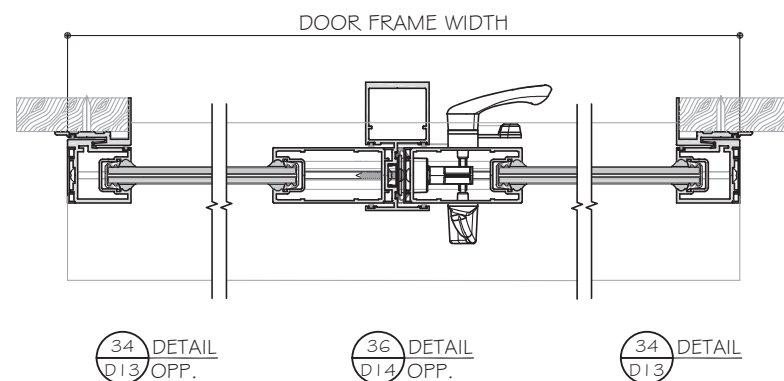
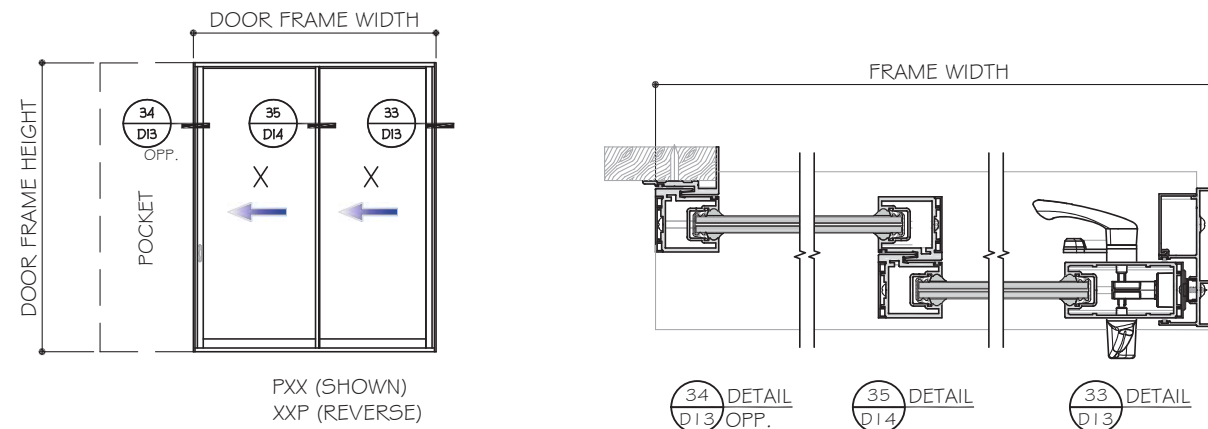
SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



TWO (2) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL AND ARE TO BE REVIEWED BY AHJ.

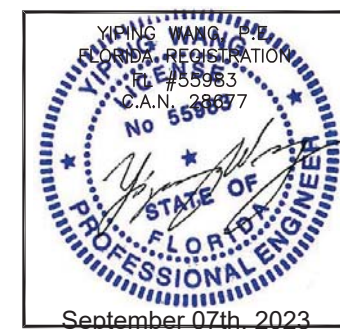
LAMINATED GLASS OPTIONS SHOWN. SEE DETAILS FOR INSULATED LAMINATED OPTION.



NOTES:

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5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

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).



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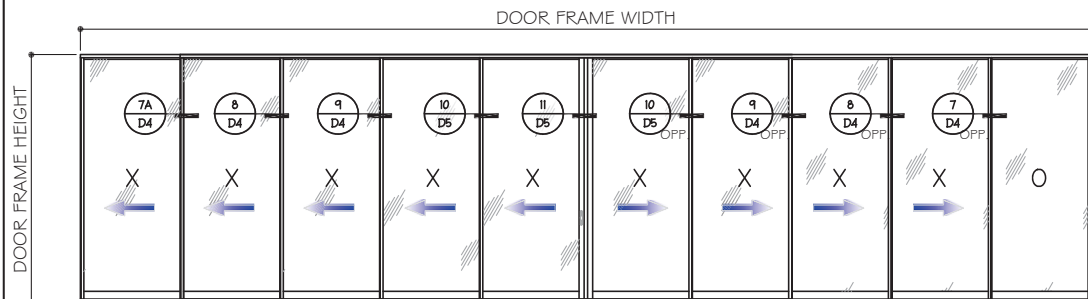
E11

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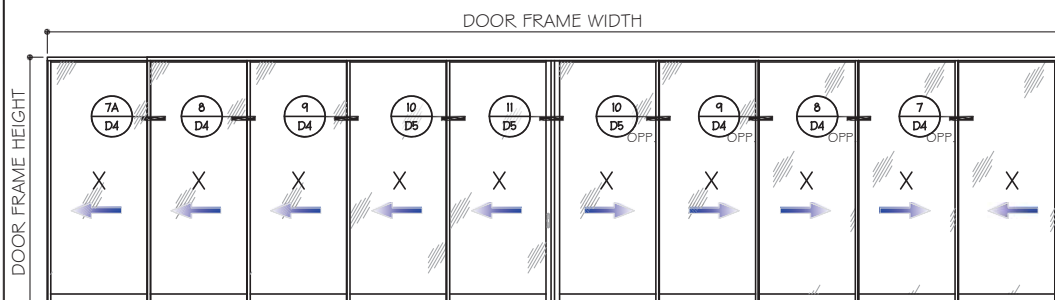
APPROVED CONFIGURATION POCKETED AND NO POCKET DOORS

(NON-REINFORCED SHOWN)

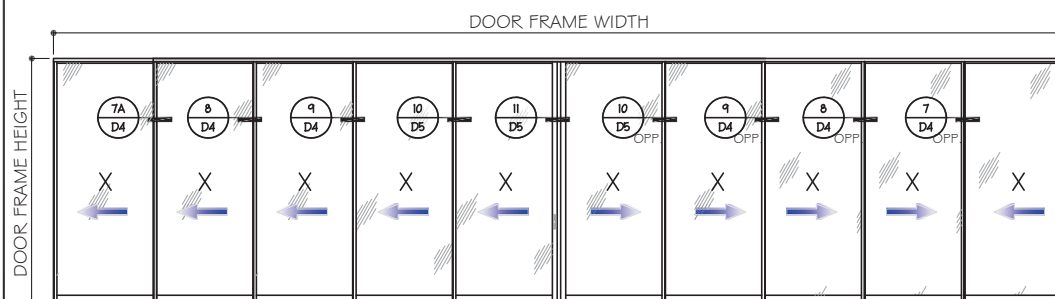
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



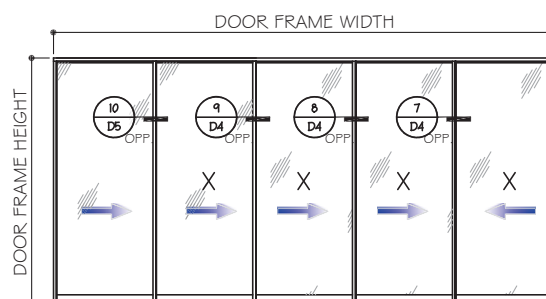
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XXXXXXXXO (SHOWN)
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XXXXXXXXO (SHOWN)
XXXXXXXX



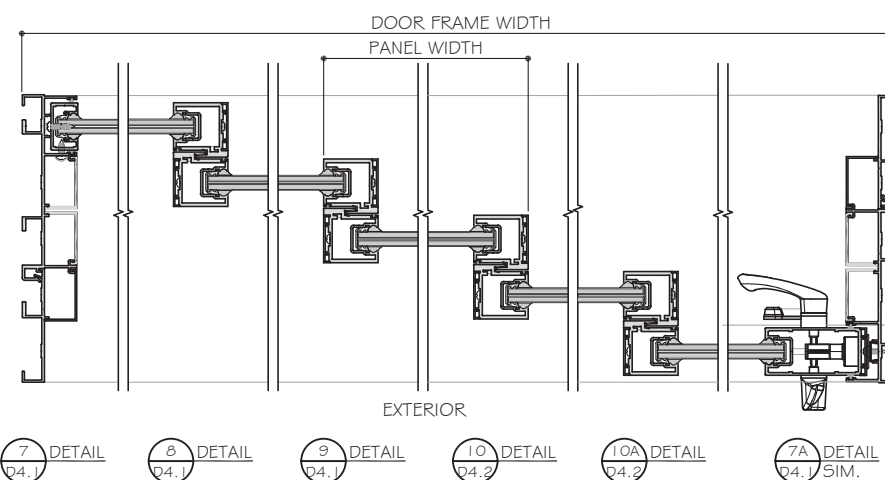
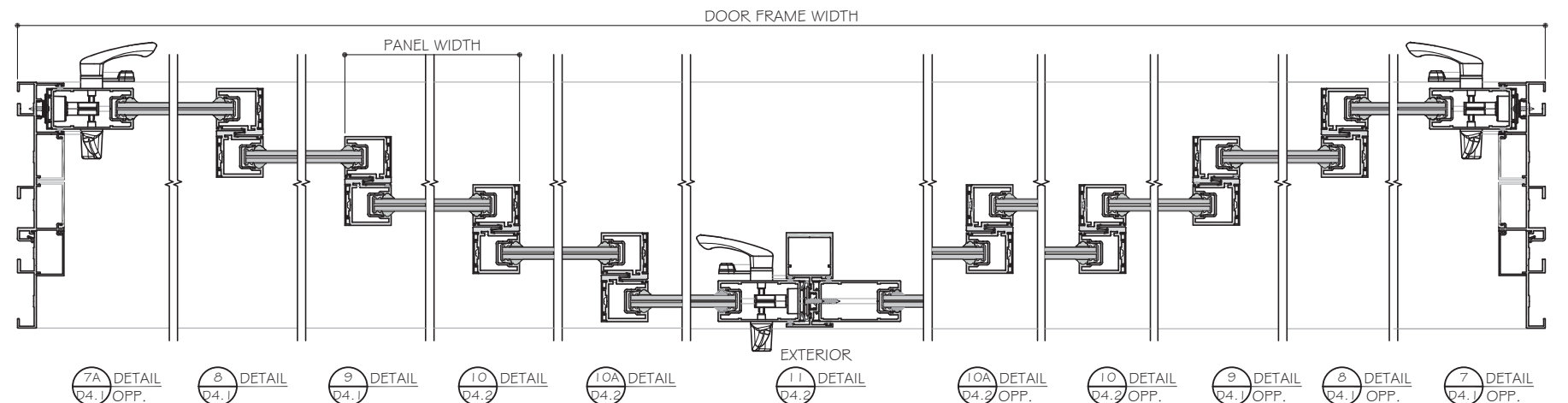
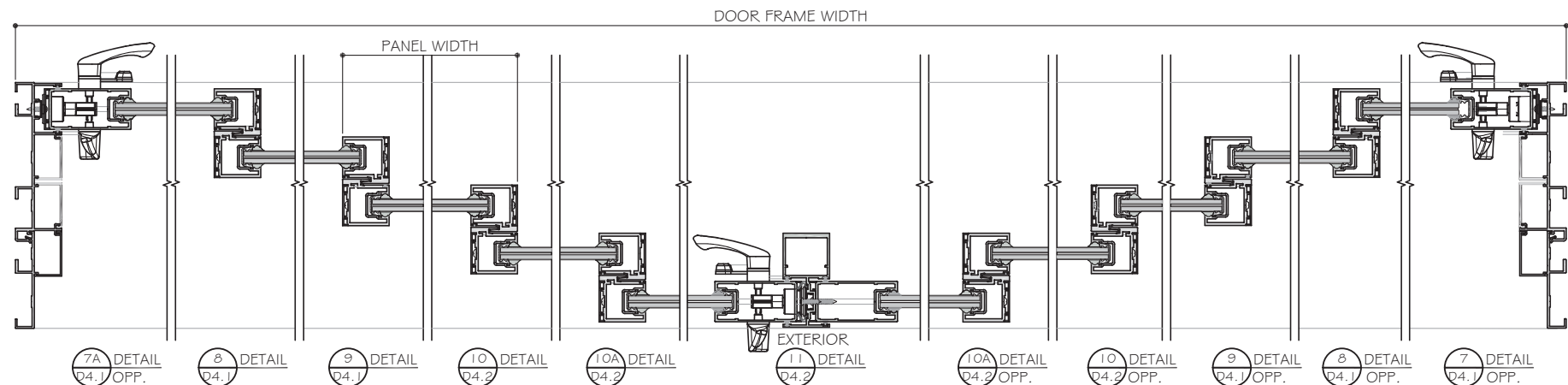
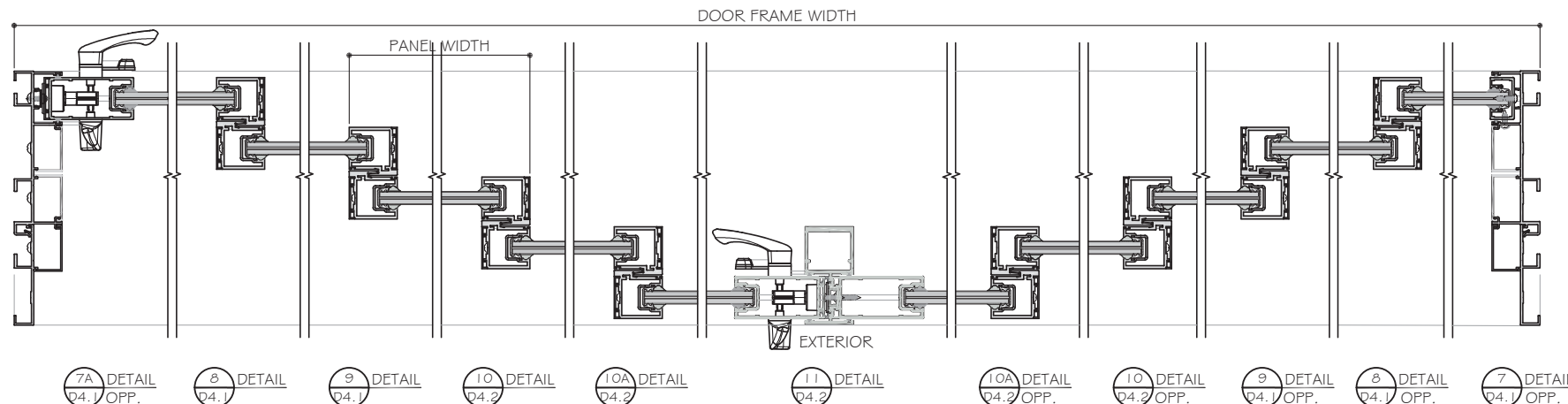
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FIVE (5) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL AND ARE TO BE REVIEWED BY AHJ.

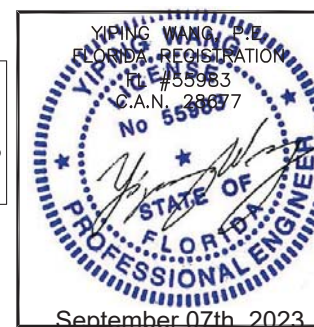
NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
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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.



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).



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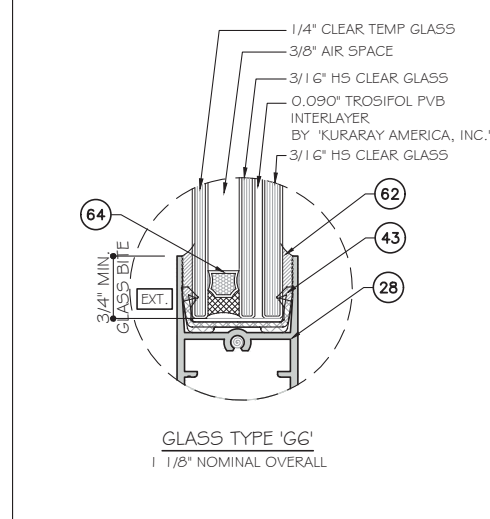
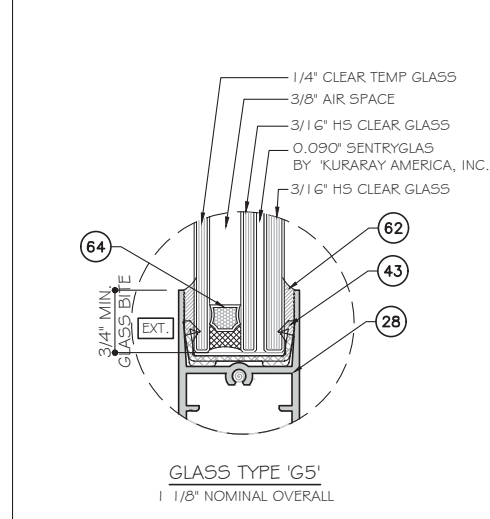
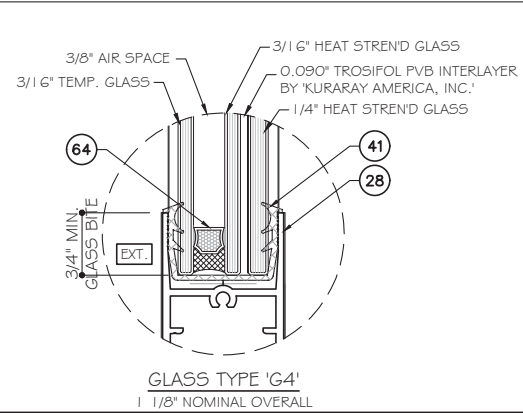
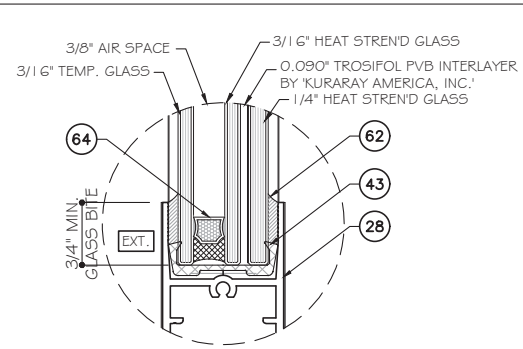
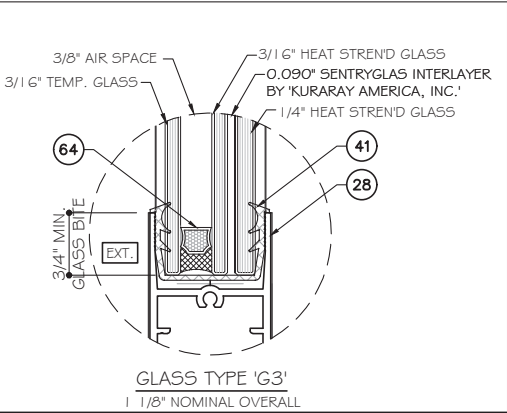
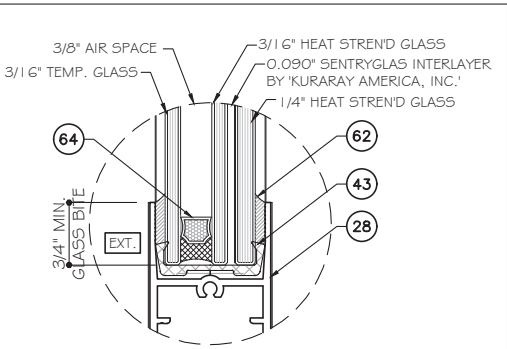
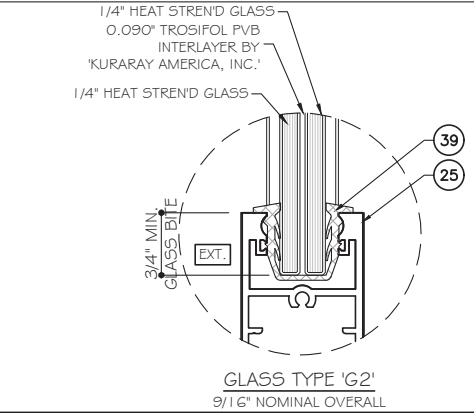
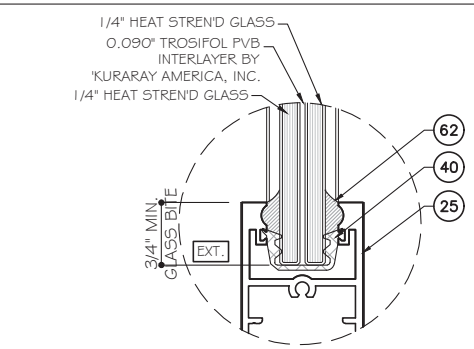
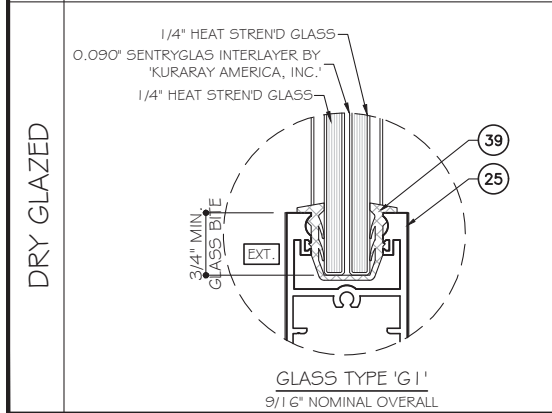
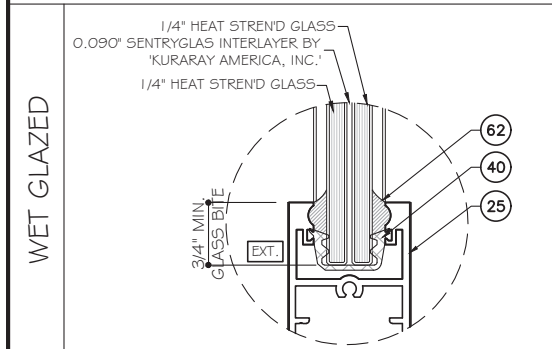
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R7	09.05.2023	James	UPDATE FBC 2023
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DESIGN LOAD CAPACITY - PSF (GLASS)							
SGD PANEL SIZES		9/16" NOMINAL LAMINATED GLASS		1-1/8" NOMINAL INSUL. LAMI. GLASS		1-1/8" NOMINAL INSUL. LAMI. GLASS	
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	G1 +/- PSF	G2 +/- PSF	G3 +/- PSF	G4 +/- PSF	G5 +/- PSF	G6 +/- PSF
60	84	150.0	150.0	150.0	150.0	102.0	102.0
66	84	150.0	150.0	150.0	150.0	102.0	102.0
72	84	102.0	100.0	102.0	100.0	102.0	-
78	84	102.0	100.0	102.0	100.0	102.0	-
84	84	102.0	100.0	102.0	100.0	102.0	-
60	90	150.0	150.0	150.0	150.0	102.0	102.0
66	90	102.0	100.0	102.0	100.0	102.0	-
72	90	102.0	100.0	102.0	100.0	102.0	-
78	90	102.0	100.0	102.0	100.0	102.0	-
84	90	102.0	-	102.0	-	-	-
60	96	150.0	150.0	150.0	150.0	102.0	102.0
66	96	102.0	100.0	102.0	100.0	102.0	-
72	96	102.0	100.0	102.0	100.0	102.0	-
78	96	102.0	-	102.0	-	-	-
84	96	102.0	-	102.0	-	-	-
36	102	150.0	150.0	150.0	150.0	102	102
42	102	150.0	150.0	150.0	147.0	102	102
48	102	150.0	150.0	150.0	131.0	102	102
54	102	150.0	139.0	150.0	120.0	102	102
60	102	102.0	100.0	102.0	102.0	102	-
66	102	102.0	100.0	102.0	102.0	102	-
72	102	102.0	100.0	102.0	101.0	-	-
78	102	102.0	-	102.0	-	-	-
84	102	102.0	-	102.0	-	-	-
36	108	150.0	150.0	150.0	150.0	102	102
42	108	150.0	150.0	150.0	136.0	102	102
48	108	150.0	147.0	150.0	122.0	102	102
54	108	102.0	102.0	102.0	102.0	102	-
60	108	102.0	102.0	102.0	102.0	102	-
66	108	102.0	102.0	102.0	101.0	-	-
72	108	102.0	-	102.0	-	-	-
78	108	102.0	-	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 (IN)	DOOR HEIGHT (IN)	G1 +/- PSF	G2 +/- PSF	G3 +/- PSF	G4 +/- PSF	G5 +/- PSF	G6 +/- PSF
36	114	150.0	150.0	150.0	150.0	102	102
42	114	150.0	150.0	150.0	132.0	102	102
48	114	150.0	150.0	139.0	115.0	102	102
54	114	102.0	102.0	102.0	102.0	102	-
60	114	102.0	102.0	102.0	98.8	102	-
66	114	102.0	-	102.0	-	-	-
72	114	102.0	-	102.0	-	-	-
36	120	150.0	150.0	150.0	150.0	102	102
42	120	150.0	150.0	150.0	129.0	102	102
48	120	150.0	132.0	148.0	110.0	102	102
54	120	102.0	102.0	102.0	101.0	102	-
60	120	102.0	102.0	102.0	92.8	-	-
66	120	102.0	-	102.0	-	-	-
72	120	102.0	-	102.0	-	-	-
36	126	150.0	-	150.0	-	102	-
42	126	150.0	-	150.0	-	102	-
48	126	102.0	-	102.0	-	102	-
54	126	102.0	-	102.0	-	102	-
60	126	102.0	-	102.0	-	-	-
66	126	102.0	-	102.0	-	-	-
36	132	150.0	-	150.0	-	102	-
42	132	150.0	-	150.0	-	102	-
48	132	102.0	-	102.0	-	102	-
54	132	102.0	-	102.0	-	102	-
60	132	102.0	-	102.0	-	-	-
66	132	102.0	-	102.0	-	-	-
36	138	150.0	-	150.0	-	102	-
42	138	150.0	-	150.0	-	102	-
48	138	102.0	-	102.0	-	102	-
54	138	102.0	-	102.0	-	-	-
60	138	102.0	-	102.0	-	-	-
36	144	150.0	-	150.0	-	102	-
42	144	102.0	-	102.0	-	102	-
48	144	102.0	-	102.0	-	-	-
54	144	102.0	-	102.0	-	-	-
60	144	102.0	-	102.0	-	-	-



NOTE:
GLASS COMPLIES WITH ASTM E 1300-09
(3 SEC. GUSTS).

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



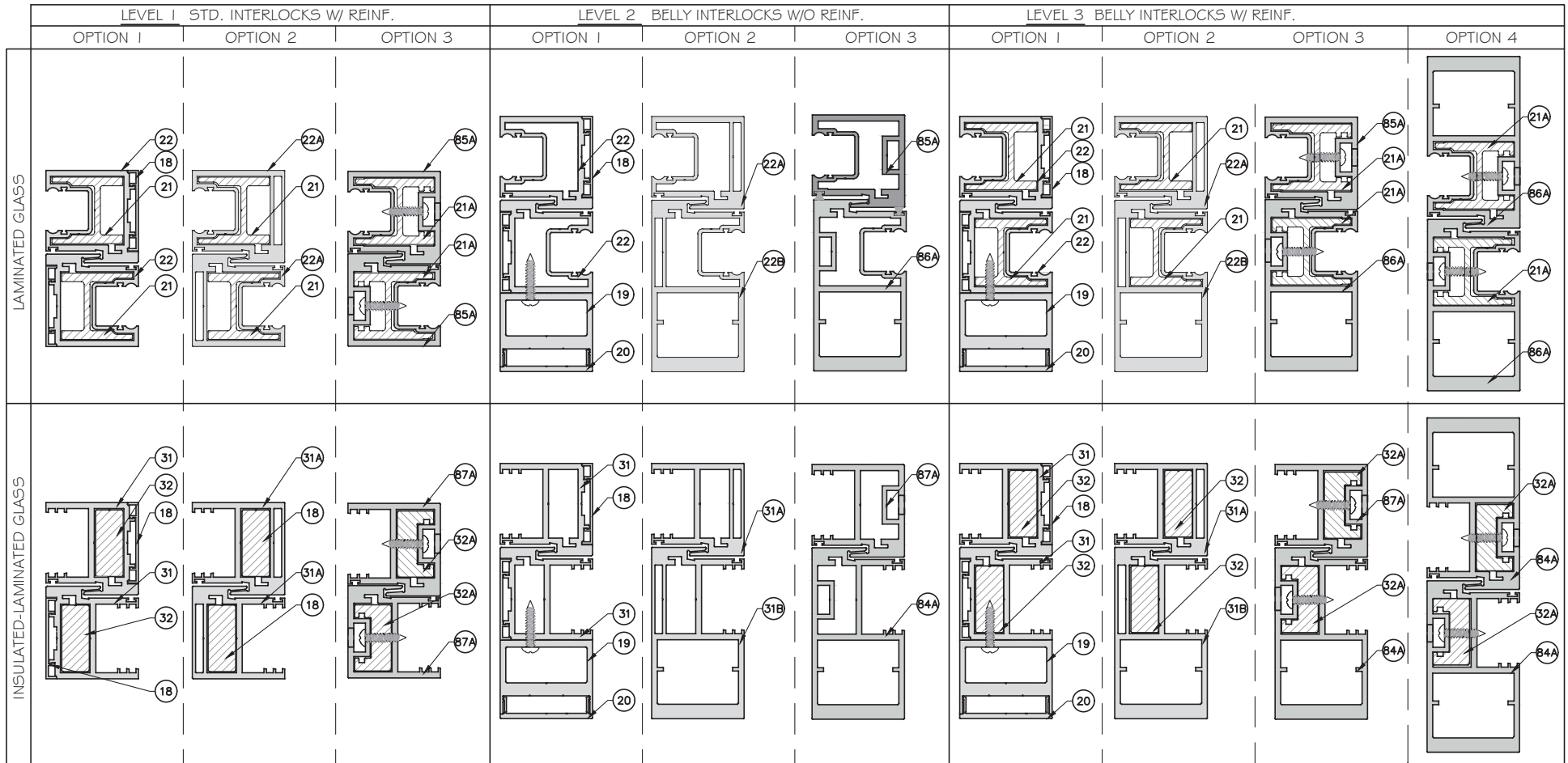
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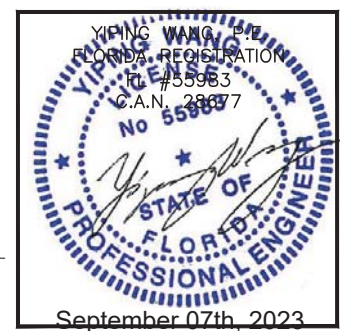
Drawn Date	Scale
09.05.2023	
DRAWING NO.	
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G1	
Sheet No.	
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DESIGN LOAD CAPACITY - PSF				
SGD PANEL SIZES		LEVEL 1 (STD INTERLOCK W/ REINF.)	LEVEL 2 (BELLY INTERLOCK W/O REINF.)	LEVEL 3 (BELLY INTERLOCK W/ REINF.)
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF +/-	PSF +/-	PSF +/-
36	102	+85/-100	65.0 / 78.0	90.0 / 150.0
42	102	+85/-100	65.0 / 78.0	90.0 / 150.0
48	102	+85/-100	65.0 / 78.0	90.0 / 150.0
54	102	+85/-100	65.0 / 78.0	90.0 / 150.0
60	102	+85/-100	65.0 / 78.0	90.0 / 102.0
66	102	+85/-100	65.0 / 78.0	90.0 / 102.0
72	102	-	65.0 / 78.0	90.0 / 102.0
36	108	+85/-100	65.0 / 78.0	90.0 / 150.0
42	108	+85/-100	65.0 / 78.0	90.0 / 150.0
48	108	+85/-100	65.0 / 78.0	90.0 / 150.0
54	108	+85/-100	65.0 / 78.0	90.0 / 102.0
60	108	+85/-100	65.0 / 78.0	90.0 / 102.0
66	108	+85/-100	65.0 / 78.0	90.0 / 102.0
72	108	-	65.0 / 78.0	90.0 / 102.0
36	114	+85/-100	65.0 / 78.0	90.0 / 150.0
42	114	+85/-100	65.0 / 78.0	90.0 / 150.0
48	114	+85/-100	65.0 / 78.0	90.0 / 150.0
54	114	+85/-100	65.0 / 78.0	90.0 / 102.0
60	114	+85/-100	65.0 / 78.0	90.0 / 102.0
66	114	-	65.0 / 78.0	90.0 / 102.0
72	114	-	65.0 / 78.0	90.0 / 102.0
36	120	+85/-100	65.0 / 78.0	90.0 / 150.0
42	120	+85/-100	65.0 / 78.0	90.0 / 150.0
48	120	+85/-100	65.0 / 78.0	90.0 / 150.0
54	120	+85/-100	65.0 / 78.0	90.0 / 102.0
60	120	+85/-100	65.0 / 78.0	90.0 / 102.0
66	120	-	65.0 / 78.0	90.0 / 102.0
72	120	-	65.0 / 78.0	90.0 / 102.0
36	126	-	65.0 / 78.0	85.0 / 102.0
42	126	-	65.0 / 78.0	85.0 / 102.0
48	126	-	65.0 / 78.0	85.0 / 102.0
54	126	-	65.0 / 78.0	85.0 / 102.0
60	126	-	65.0 / 78.0	85.0 / 102.0
66	126	-	65.0 / 78.0	85.0 / 102.0
36	132	-	65.0 / 78.0	85.0 / 102.0
42	132	-	65.0 / 78.0	85.0 / 102.0
48	132	-	65.0 / 78.0	85.0 / 102.0
54	132	-	65.0 / 78.0	85.0 / 102.0
60	132	-	65.0 / 78.0	85.0 / 102.0
66	132	-	65.0 / 78.0	85.0 / 102.0
36	138	-	65.0 / 78.0	85.0 / 102.0
42	138	-	65.0 / 78.0	85.0 / 102.0
48	138	-	65.0 / 78.0	85.0 / 102.0
54	138	-	65.0 / 78.0	85.0 / 102.0
60	138	-	65.0 / 78.0	85.0 / 102.0

DESIGN LOAD CAPACITY - PSF				
SGD PANEL SIZES		LEVEL 1 (STD INTERLOCK W/ REINF.)	LEVEL 2 (BELLY INTERLOCK W/O REINF.)	LEVEL 3 (BELLY INTERLOCK W/ REINF.)
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF +/-	PSF +/-	PSF +/-
36	144	-	65.0 / 78.0	85.0 / 102.0
42	144	-	65.0 / 78.0	85.0 / 102.0
48	144	-	65.0 / 78.0	85.0 / 102.0
54	144	-	65.0 / 78.0	85.0 / 102.0
60	144	-	65.0 / 78.0	85.0 / 102.0



AVE. PANEL WIDTH = $\frac{\text{FRAME WIDTH}}{\# \text{ OF PANELS}}$



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ES-SGD20 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
R7	09.05.2023	James	UPDATE P&C 2023

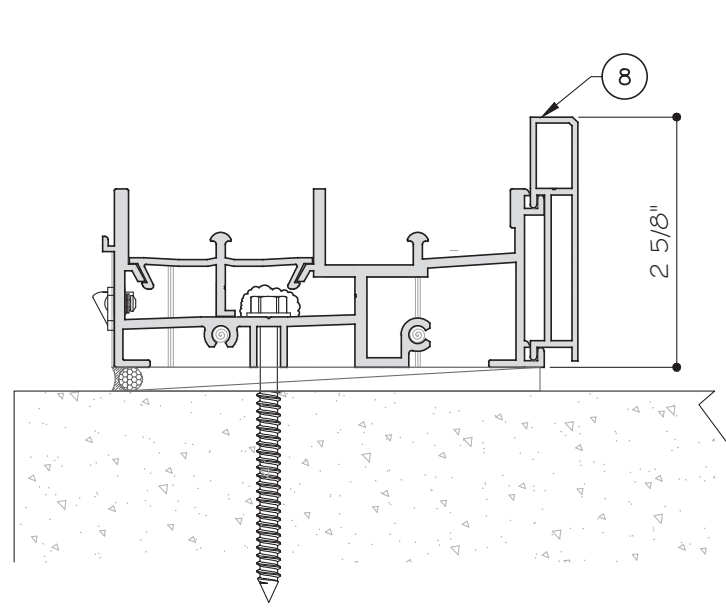
Drawn Date: 09.05.2023 Scale:

DRAWING NO. **AD16-29**

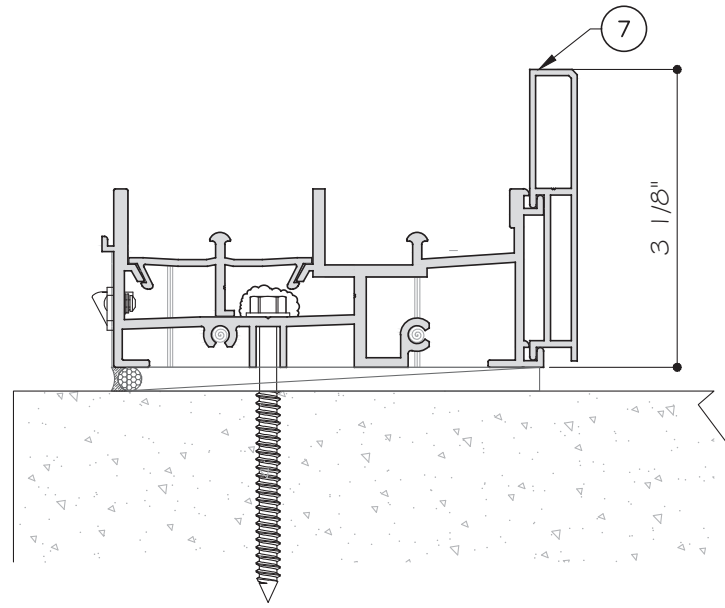
K1

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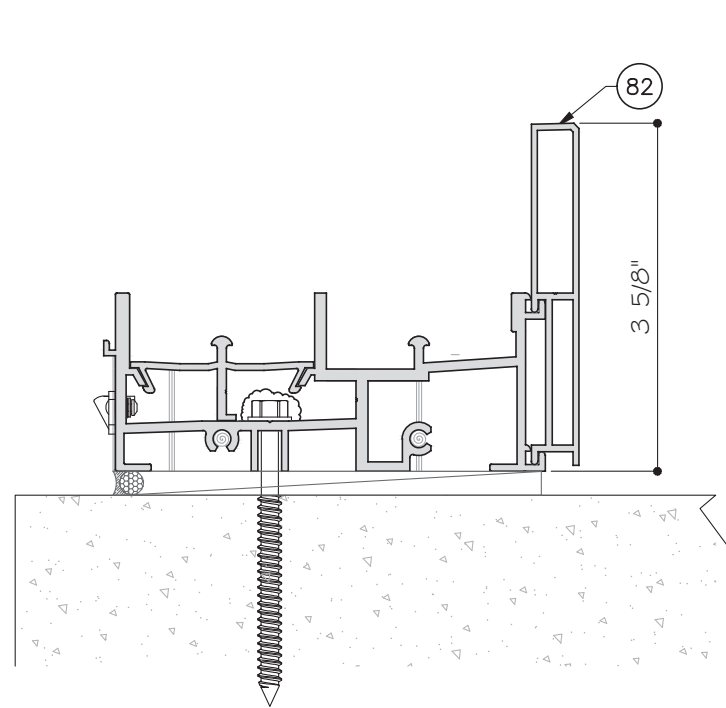
SILL RAISER OPTIONS (SHOWN ON 2 TRACK DOORS)
 POSITIVE LOAD LIMITED AS FOLLOW DUE TO WATER INFILTRATION



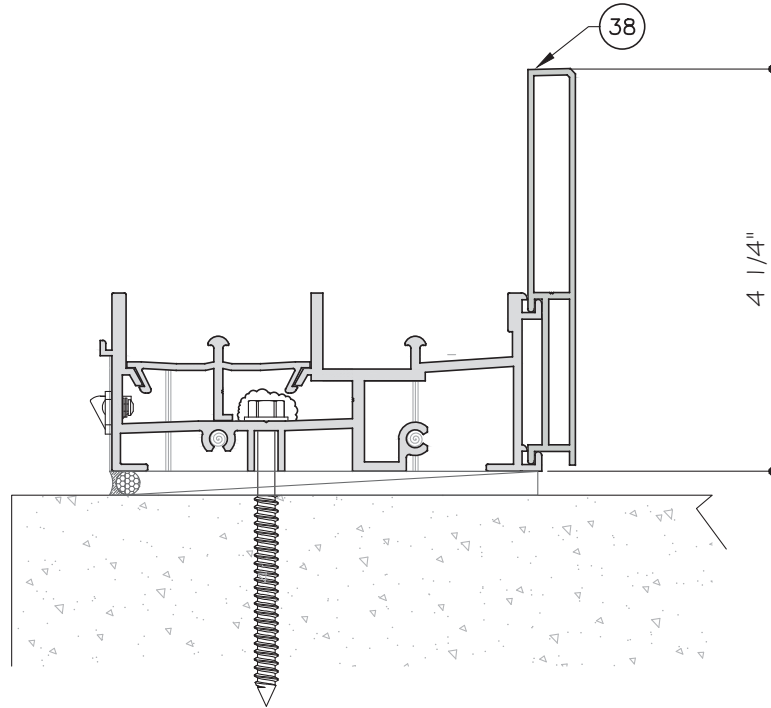
Pd MAX.= +53 PSF



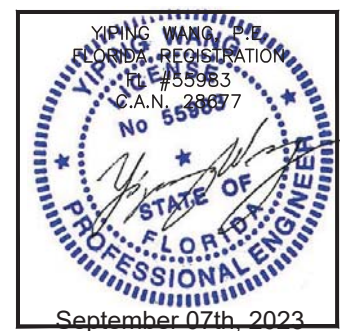
Pd MAX.= +67 PSF



Pd MAX.= +80 PSF

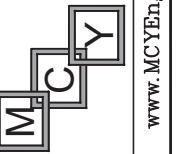


Pd MAX.= +90 PSF



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R7	09.05.2023	James	UPDATE PFC 2023

Drawn Date: 09.05.2023
 Scale:

DRAWING NO.
AD16-29

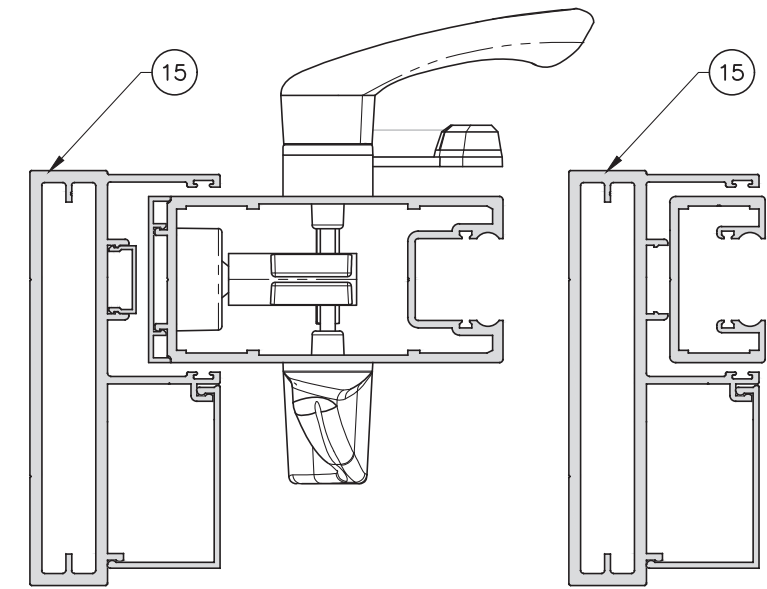
K2

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2 TRACK FREE STANDING JAMB CAPACITY - PSF							
SGD PANEL SIZES		JAMB W/O REINF. (J1)		JAMB W/ ALUM REINF. (J2)		JAMB W/ STEEL REINF. (J2S)	
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF +	PSF -	PSF +	PSF -	PSF +	PSF -
60	84	65	77	85	100	85	100
66		65	73	85	100	85	100
72		65	71	85	100	85	100
78		65	69	85	100	85	100
84		65	68	85	100	85	100
60	90	65	66	85	100	85	100
66		62	62	85	98	85	100
72		59	59	85	94	85	100
78		57	57	85	91	85	100
84	56	56	65	74	65	78	
60	96	56	56	85	90	85	100
66		53	53	85	84	85	100
72		50	50	80	80	85	96
78		48	48	64	64	65	78
84	47	47	62	62	65	78	
36	102	65	76	85	100	85	100
42		65	66	85	100	85	100
48		59	59	85	93	85	100
54		53	53	85	85	85	100
60		49	49	78	78	85	94
66		46	46	73	73	85	88
72		43	43	57	57	65	78
78		42	42	55	55	65	78
84	40	40	53	53	65	77	
36	108	65	67	85	100	85	100
42		58	58	85	93	85	100
48		52	52	83	83	85	99
54		47	47	75	75	85	90
60		43	43	69	69	83	83
66		40	40	64	64	77	77
72		38	38	50	50	65	73
78	36	36	48	48	65	69	
36	114	60	60	85	95	85	100
42		52	52	83	83	85	100
48		46	46	74	74	85	88
54		42	42	66	66	80	80
60		38	38	61	61	73	73
66		36	36	47	47	65	68
72	33	33	44	44	64	64	

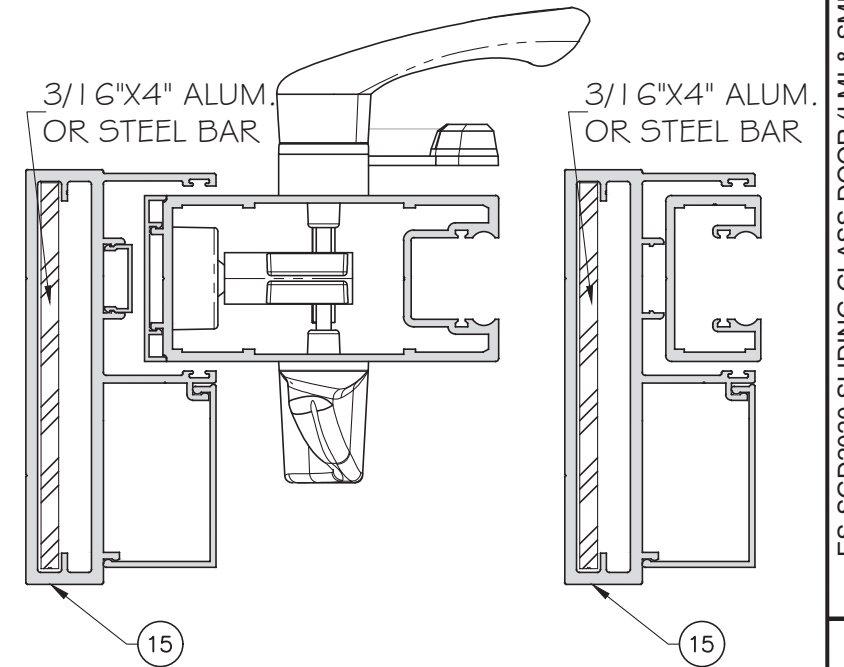
2 TRACK FREE STANDING JAMB CAPACITY - PSF							
SGD PANEL SIZES		JAMB W/O REINF. (J1)		JAMB W/ ALUM REINF. (J2)		JAMB W/ STEEL REINF. (J2S)	
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF +	PSF -	PSF +	PSF -	PSF +	PSF -
36	120	54	54	85	85	85	100
42		47	47	74	74	85	89
48		42	42	66	66	79	79
54		37	37	59	59	72	72
60		34	34	54	54	66	66
66		32	32	42	42	61	61
72	30	30	39	39	57	57	
36	126	49	49	64	64	65	78
42		42	42	56	56	65	78
48		37	37	49	49	65	72
54		34	34	44	44	64	64
60	31	31	41	41	59	59	
66	29	29	38	38	55	55	
36	132	44	44	59	59	65	78
42		38	38	51	51	65	73
48		34	34	45	45	65	65
54	31	31	40	40	58	58	
60	28	28	37	37	53	53	
36	138	41	41	53	53	65	77
42		35	35	46	46	65	67
48		31	31	41	41	59	59
54		28	28	37	37	53	53
60	25	25	33	33	48	48	
36	144	37	37	49	49	65	71
42		32	32	42	42	61	61
48		28	28	37	37	54	54
54		25	25	33	33	49	49
60	23	23	31	31	44	44	

$$\text{AVE. PANEL WIDTH} = \frac{\text{FRAME WIDTH}}{\# \text{ OF PANELS}}$$



JAMB W/ LOCK STILE UNREINF.

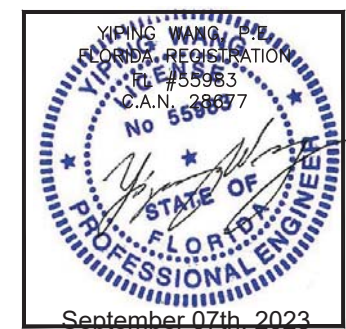
JAMB W/ FIX STILE UNREINF.



JAMB W/ LOCK STILE REINF.

JAMB W/ FIX STILE REINF.

NOTE: STILE SHOWN FOR LAMINATED GLASS OPTION ONLY. CHART COVERS BOTH INSULATED LAMINATED AND LAMINATED GLASS OPTIONS.



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Rev. No.	Date	Drawn By	Description
R7	09.05.2023	James	UPDATE PFC 2023

Drawn Date: 09.05.2023

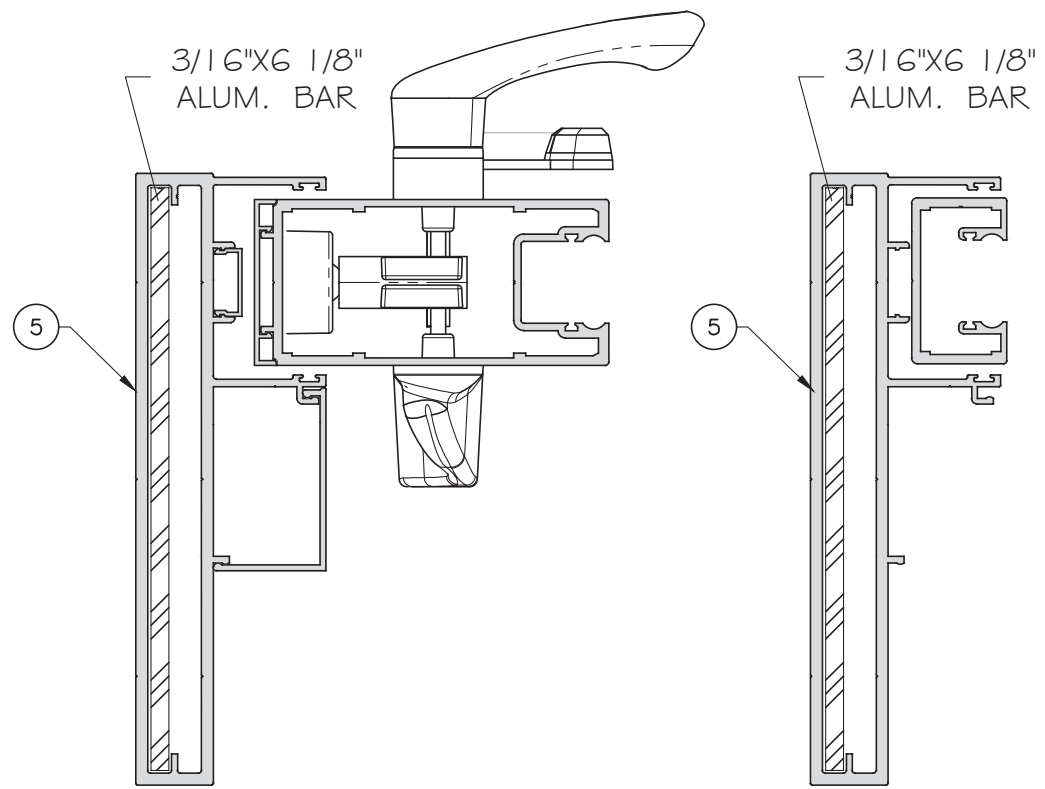
DRAWING NO. AD16-29

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3 TRACK F.STANDING JAMB CAPACITY - PSF				
SGD PANEL SIZES		JAMB W/ ALUM REINF. (J3)		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF +	PSF -	
60	84	85	102	
66		85	102	
72		85	102	
78		85	102	
84		85	102	
60	90	85	102	
66		85	102	
72		85	102	
78		85	102	
84		85	102	
60	96	85	102	
66		85	102	
72		85	102	
78		85	102	
84		85	102	
36	102	85	102	
42		85	102	
48		85	102	
54		85	102	
60		85	102	
66		85	102	
72		85	102	
78		85	102	
84		85	102	
36		108	85	102
42	85		102	
48	85		102	
54	85		102	
60	85		102	
66	85		102	
72	85		102	
78	85		102	
36	114		85	102
42			85	102
48		85	102	
54		85	102	
60		85	102	
66		85	102	
72		85	102	

3 TRACK DESIGN LOAD JAMB CAPACITY - PSF			
SGD PANEL SIZES		JAMB W/ ALUM REINF. (J3)	
PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF +	PSF -
36	120	85	102
42		85	102
48		85	102
54		85	102
60		85	102
66		85	102
72	126	85	102
36		85	102
42		85	102
48		85	102
54		85	102
60		85	102
66	132	85	102
36		85	102
42		85	102
48		85	102
54		85	102
60		85	102
36	138	85	102
42		85	102
48		85	102
54		85	102
60		85	98
36		144	85
42	85		102
48	85		102
54	85		99
60	85		90

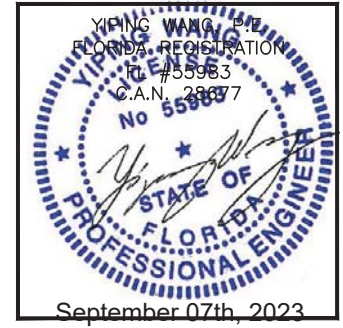
$$\text{AVE. PANEL WIDTH} = \frac{\text{FRAME WIDTH}}{\text{\# OF PANELS}}$$



JAMB W/ LOCK STILE
REINF.

JAMB W/ FIX STILE
REINF.

NOTE: STILE SHOWN FOR LAMINATED
GLASS OPTION ONLY. CHART COVERS
BOTH INSULATED LAMINATED AND
LAMINATED GLASS OPTIONS.



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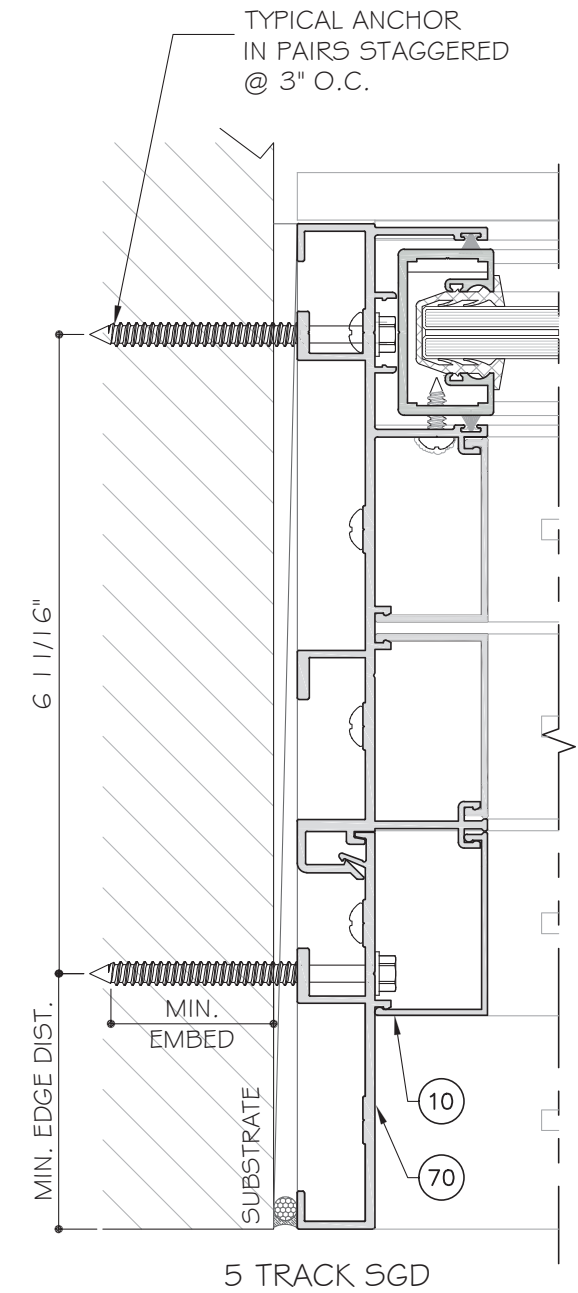
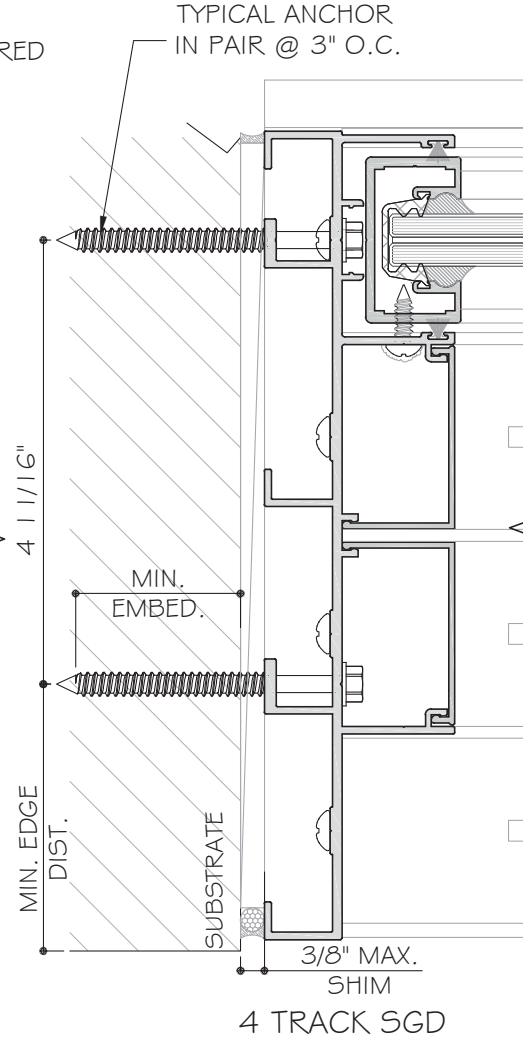
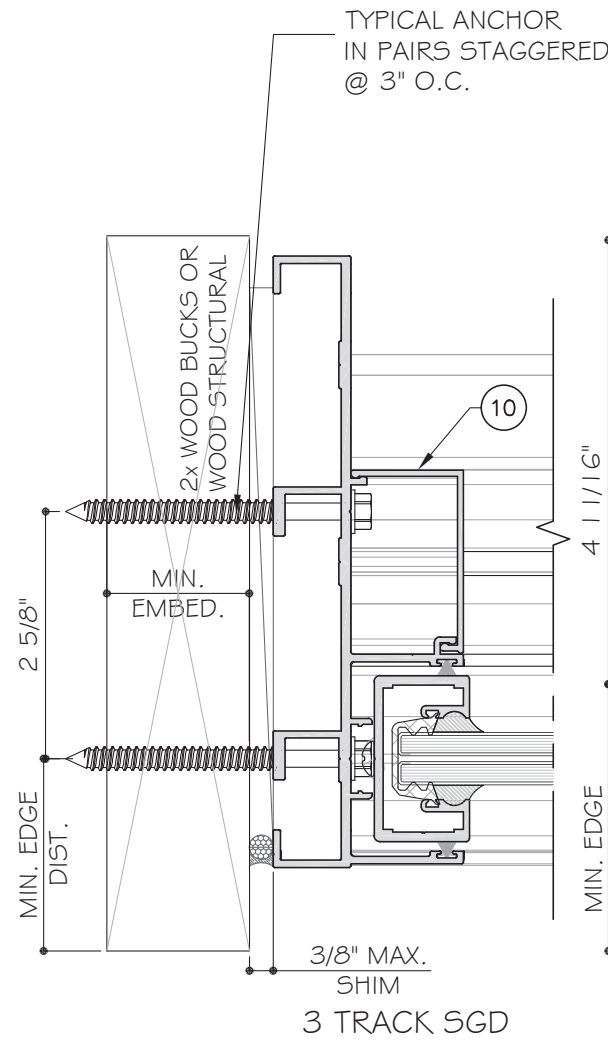
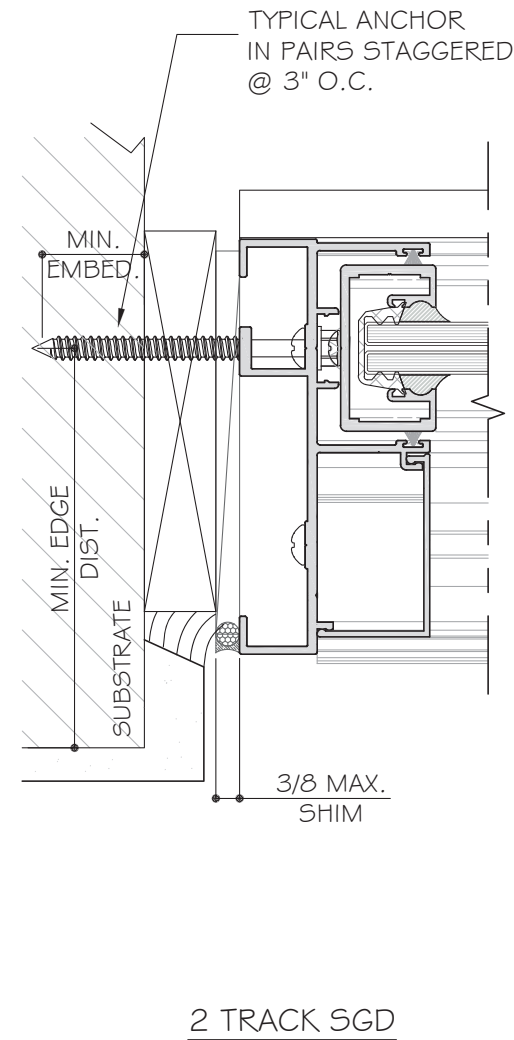
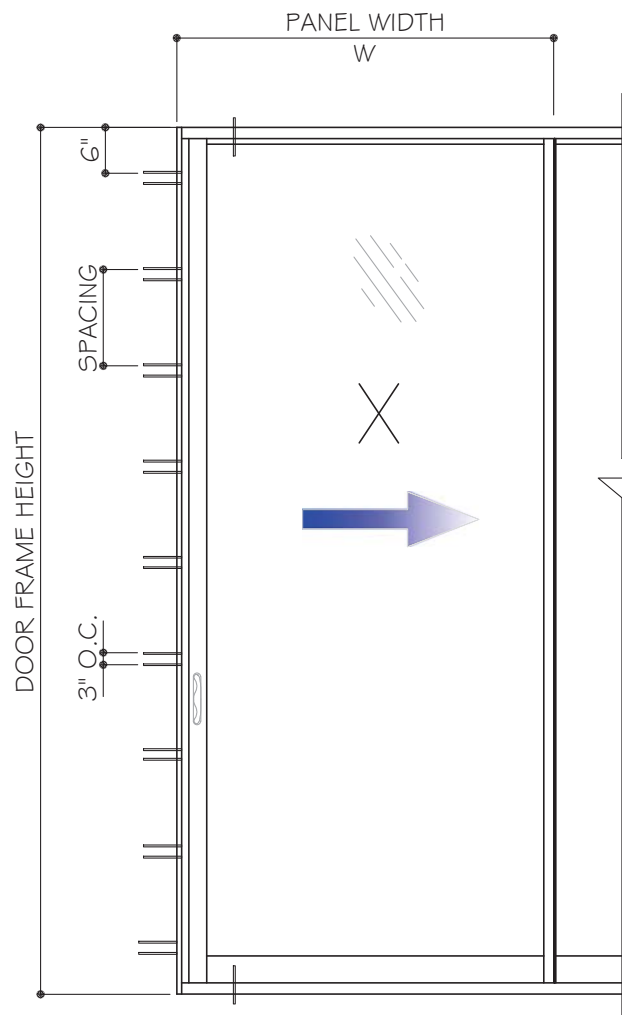
Rev. No.	Date	Drawn By	Description
R7	09.05.2023	James	UPDATE PFC 2023

Drawn Date: 09.05.2023 Scale:

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J2

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JAMB ANCHOR TYPES:

TYPE "A1": 1/4" DIA. HILTI (Fu=138 KSI, Fy=137 KSI)

- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO fc=3 KSI MIN. CONCRETE
- 1 3/4" MIN. EMBED DIRECTLY INTO fc=3 KSI MIN. CONCRETE

1/4" DIA. HILTI (Fu=138 KSI, Fy=137 KSI)

- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO fc=3 KSI MIN. CONCRETE
- 1 3/4" MIN. EMBED DIRECTLY INTO fc=3 KSI MIN. CONCRETE

TYPE "B1": 1/4" DIA. ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)

- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO fc=3 KSI MIN. CONCRETE
- 1 3/4" MIN. EMBED DIRECTLY INTO fc=3 KSI MIN. CONCRETE

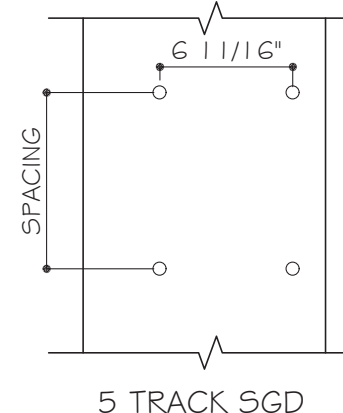
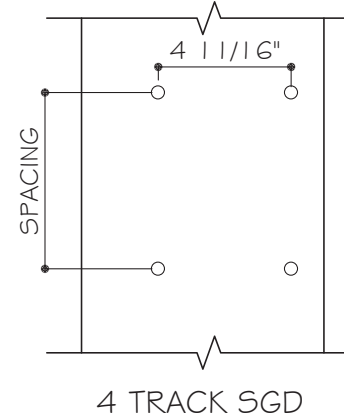
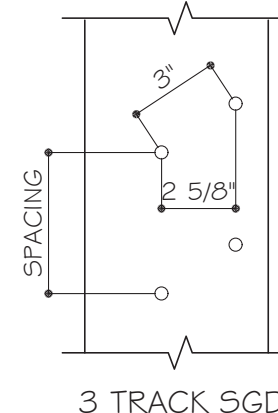
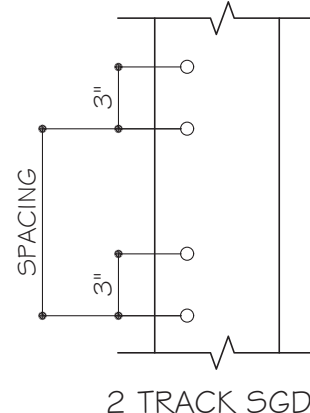
TYPE "C1": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI) INTO METAL STRUCTURE

TYPE "D1": 5/16" TEKS/DRIL-FLEX SCREW (Fu=120 KSI, Fy=92 KSI) INTO METAL STRUCTURE

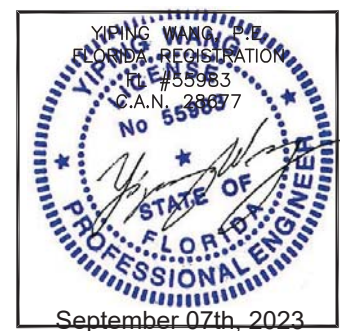
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy=36KSI, MIN.)
 STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

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"



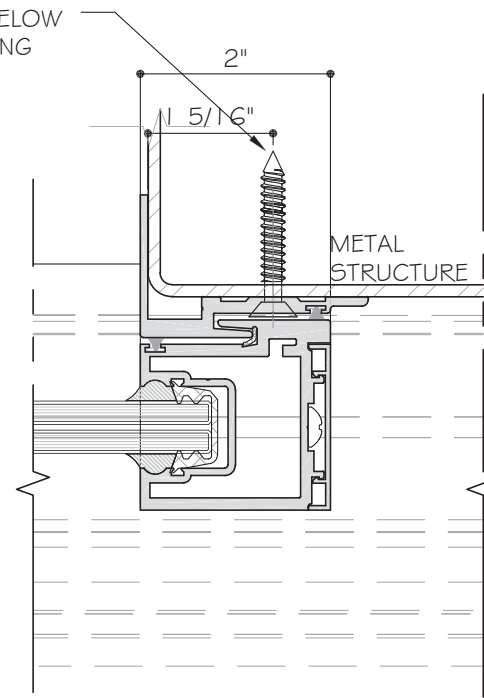
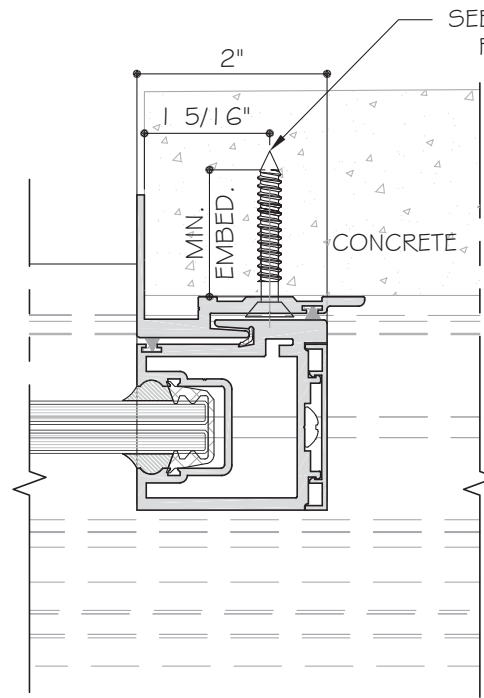
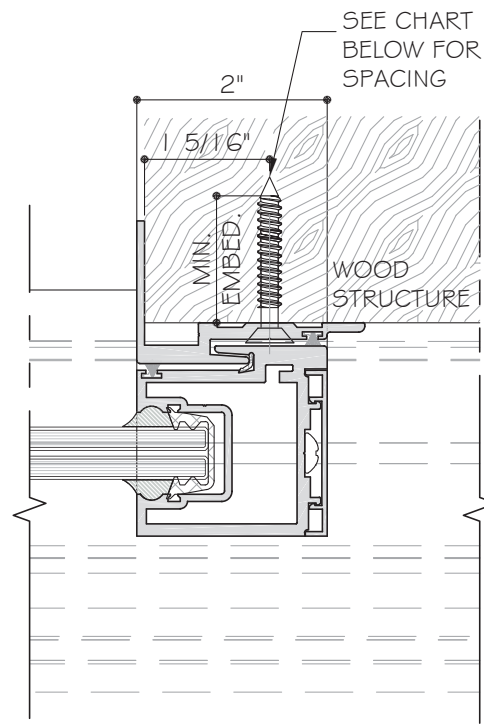
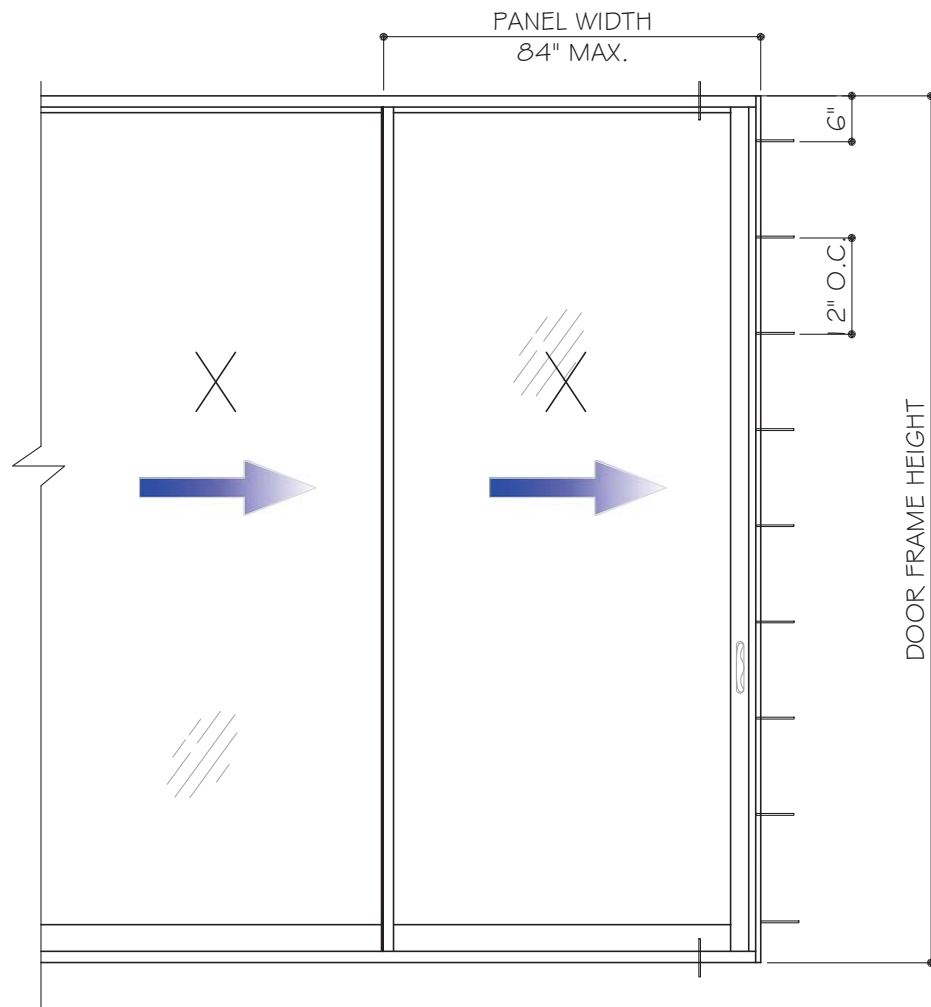
NOTE: WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.



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JAMB ANCHOR TYPES:

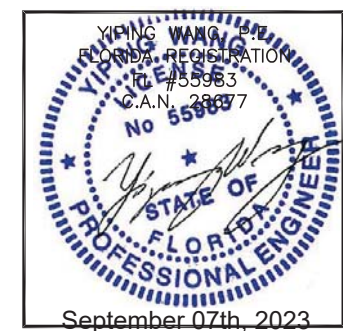
TYPE "B2": 1/4" DIA. ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
 1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
 1 5/16" MIN. EDGE DISTANCE

TYPE "D2": 1/4" DIA. TEKS-SELF DRILLING SCREW (Fu=120 KSI, Fy=92 KSI)
 INTO METAL STRUCTURE
 ALUMINUM: 3/16" THK. MIN. (6063-T6 MIN.)
 STEEL: 1/8" THK. MIN. (Fy=36KSI, MIN.)

TYPE "D2A": 1/4" DIA. SMS (Fu=74 KSI, Fy=57 KSI)
 1 1/2" MIN. EMBED INTO WOOD STRUCTURE (SG=0.55 MIN.)
 1" MIN. EDGE DISTANCE

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.

ANCHOR TYPE	EMBEDMENT	SUBSTRATE	ANCHOR SPACING	
			W≤72"	72"<W≤84"
A2 (1/4" ULTRACON)	1 3/4"	CONCRETE	12"	11"
D2(#14 TEKS)	3/16"	ALUM.6063-T6	16"	14"
D2(#14 SMS)	1/8"	STL	14"	12"
D2A(#14 SMS)	1 1/2"	WOOD SG=0.55	13"	11"



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

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MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

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Rev. No.	Date	Drawn By	Description
R7	09.05.2023	James	UPDATE FPC 2023

Drawn Date: 09.05.2023

Scale:

DRAWING NO. AD16-29

J4

Sheet No. 20 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	

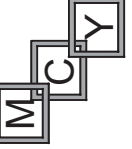
A4 OR AA4 - A CLUSTER OF (4) TYPE "A" OR "AA" ANCHORS AT HEAD
 A6 OR AA6- A CLUSTER OF (6) TYPE "A" OR "AA" ANCHORS AT HEAD
 A8 OR AA8- A CLUSTER OF (8) TYPE "A" OR "AA" ANCHORS AT HEAD
 A10 OR AA10 - A CLUSTER OF (10) TYPE "A" OR "AA" ANCHORS AT HEAD
 B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT HEAD
 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 AG & A7



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Rev. No.	Date	Drawn By	Description						
R7	09.05.2023	James	UPDATE PFC 2023						
Drawn Date	Scale								
09.05.2023									
DRAWING NO. AD16-29									
A1									
Sheet No. 21 OF 59									

HEAD ANCHOR CAPACITY - PSF						
SGD PANEL SIZES		ANCHOR TYPE "BB"				
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	BB4 +/-	BB6 +/-	BB8 +/-	BB10 +/-	
78	84	77.8	116.7	150.0	150.0	
84		77.4	116.1	150.0	150.0	
78	90	68.6	103.0	137.3	150.0	
84		67.7	101.6	135.4	150.0	
36	96	97.2	145.8	150.0	150.0	
42		86.7	130.0	150.0	150.0	
48		79.0	118.5	150.0	150.0	
54		73.3	109.9	146.6	150.0	
60		68.9	103.4	137.9	150.0	
66		65.7	98.5	131.3	150.0	
72		63.2	94.8	126.4	150.0	
78		61.4	92.1	122.8	150.0	
84		60.2	90.3	120.4	150.0	
36		102	90.3	135.4	150.0	150.0
42	80.3		120.4	150.0	150.0	
48	72.9		109.4	145.8	150.0	
54	67.4		101.1	134.8	150.0	
60	63.2		94.8	126.4	150.0	
66	60.0		89.9	119.9	149.9	
72	57.5		86.2	114.9	143.6	
76	55.6		83.3	111.1	138.9	
84	54.2		81.3	108.3	135.4	
36	108		84.3	126.4	150.0	150.0
42		74.7	112.1	149.4	150.0	
48		67.7	101.6	135.4	150.0	
54		62.4	93.6	124.8	150.0	
60		58.3	87.5	116.7	145.8	
66		55.2	82.7	110.3	137.9	
72		52.7	79.0	105.3	131.7	
78		50.7	76.1	101.5	126.8	
36		114	79.0	118.5	150.0	150.0
42			69.9	104.8	139.8	150.0
48	63.2		94.8	126.4	150.0	
54	58.1		87.2	116.2	145.3	
60	54.2		81.3	108.3	135.4	
66	51.1		76.6	102.1	127.7	
72	48.6		72.9	97.2	121.5	
36	120		74.4	111.5	148.7	150.0
42			65.7	98.5	131.3	150.0
48			59.3	88.9	118.5	148.1
54		54.4	81.5	108.7	135.9	
60		50.6	75.8	101.1	126.4	
66		47.5	71.3	95.1	118.9	
72		45.1	67.7	90.3	112.9	

HEAD ANCHOR CAPACITY - PSF					
SGD PANEL SIZES		ANCHOR TYPE "BB"			
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	BB4 +/-	BB6 +/-	BB8 +/-	BB10 +/-
36	132	66.5	99.8	133.1	150.0
42		58.6	87.8	117.1	146.4
48		52.7	79.0	105.3	131.7
54		48.2	72.2	96.3	120.4
60		44.6	66.9	89.2	111.5
66		41.8	62.7	83.6	104.5
36	138	63.2	94.8	126.4	150.0
42		55.6	83.3	111.1	138.9
48		49.9	74.8	99.8	124.7
54		45.5	68.3	91.1	113.9
60	144	42.1	63.2	84.3	105.3
36		60.2	90.3	120.4	150.0
42		52.9	79.3	105.7	132.1
48		47.4	71.1	94.8	118.5
54	144	43.2	64.8	86.4	108.0
60		39.9	59.9	79.8	99.8

BB4 - A CLUSTER OF (4) ANCHORS TYPE "BB" AT INTERLOCK/ASTRAGAL
 BB6 - A CLUSTER OF (6) ANCHORS TYPE "BB" AT INTERLOCK/ASTRAGAL
 BB8 - A CLUSTER OF (8) ANCHORS TYPE "BB" AT INTERLOCK/ASTRAGAL
 BB10 - A CLUSTER OF (10) ANCHORS TYPE "BB" AT INTERLOCK/ASTRAGAL

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A7



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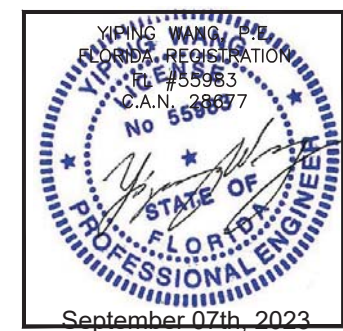
Drawn Date	Scale
09.05.2023	
DRAWING NO.	
AD16-29	
SHEET NO.	
22 OF 59	

HEAD ANCHOR CAPACITY - PSF						
SGD PANEL SIZES		ANCHOR TYPE "CC"				
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	CC4 +/-	CC6 +/-	CC8 +/-	CC10 +/-	
78	84	88.0	131.9	150.0	150.0	
84		87.5	131.3	150.0	150.0	
78	90	77.6	116.4	150.0	150.0	
84		76.6	114.9	150.0	150.0	
36	96	109.9	150.0	150.0	150.0	
42		98.0	147.0	150.0	150.0	
48		89.3	134.0	150.0	150.0	
54		82.9	124.3	150.0	150.0	
60		78.0	116.9	150.0	150.0	
66		74.3	111.4	148.5	150.0	
72		71.5	107.2	142.9	150.0	
78		69.4	104.2	138.9	150.0	
84		68.1	102.1	136.1	150.0	
36		102	102.1	150.0	150.0	150.0
42	90.8		136.1	150.0	150.0	
48	82.5		123.7	150.0	150.0	
54	76.2		114.3	150.0	150.0	
60	71.5		107.2	142.9	150.0	
66	67.8		101.7	135.6	149.9	
72	65.0		97.5	129.9	143.6	
78	62.8		94.2	125.7	150.0	
84	61.3		91.9	122.5	150.0	
36	108		95.3	142.9	150.0	150.0
42		84.5	126.7	150.0	150.0	
48		76.6	114.9	150.0	150.0	
54		70.6	105.9	141.2	150.0	
60		66.0	99.0	131.9	150.0	
66		62.4	93.6	124.7	150.0	
72		59.6	89.3	119.1	148.9	
78		57.4	86.0	114.7	143.4	
36		114	89.3	134.0	150.0	150.0
42			79.0	118.6	150.0	150.0
48	71.5		107.2	142.9	150.0	
54	65.7		98.6	131.4	150.0	
60	61.3		91.9	122.5	150.0	
66	57.8		86.6	115.5	144.4	
72	55.0	82.5	109.9	137.4		
36	120	84.1	126.1	150.0	150.0	
42		74.3	111.4	148.5	150.0	
48		67.0	100.5	134.0	150.0	
54		61.5	92.2	123.0	150.0	
60		57.2	85.8	114.3	142.9	
66		53.8	80.7	107.5	134.4	
72	51.0	76.6	102.1	127.6		

HEAD ANCHOR CAPACITY - PSF					
SGD PANEL SIZES		ANCHOR TYPE "CC"			
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	CC4 +/-	CC6 +/-	CC8 +/-	CC10 +/-
36	132	75.2	112.8	150.0	150.0
42		66.2	99.3	132.4	150.0
48		59.6	89.3	119.1	148.9
54		54.5	81.7	108.9	136.1
60		50.4	75.7	100.9	126.1
66		47.3	70.9	94.5	118.1
36	138	71.5	107.2	142.9	150.0
42		62.8	94.2	125.7	150.0
48		56.4	84.6	112.8	141.1
54		51.5	77.3	103.0	128.8
60		47.6	71.5	95.3	119.1
36		144	68.1	102.1	136.1
42	59.8		89.6	119.5	149.4
48	53.6		80.4	107.2	134.0
54	48.9		73.3	97.7	122.2
60	45.1		67.7	90.3	112.8

CC4 - A CLUSTER OF (4) ANCHORS TYPE "CC" AT INTERLOCK/ASTRAGAL
 CC6 - A CLUSTER OF (6) ANCHORS TYPE "CC" AT INTERLOCK/ASTRAGAL
 CC8 - A CLUSTER OF (8) ANCHORS TYPE "CC" AT INTERLOCK/ASTRAGAL
 CC10 - A CLUSTER OF (10) ANCHORS TYPE "CC" AT INTERLOCK/ASTRAGAL

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A7



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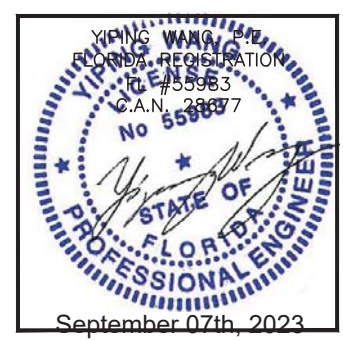
Drawn Date	09.05.2023	Scale	
Rev. No.	R7	Date	09.05.2023
Drawn By	James	Update PRC	2023
Description			
DRAWING NO.	AD16-29		
SHEET NO.	A3		
SHEET OF	23 OF 59		

HEAD ANCHOR CAPACITY - PSF								
SGD PANEL SIZES		ANCHOR TYPE "C"		ANCHOR TYPE "D"			ANCHOR TYPE "E"	
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	C4 +/-	C6 +/-	D4 +/-	D6 +/-	D8 +/-	E4 +/-	E6 +/-
36	84	150.0	150.0	114.9	150.0	150.0	150.0	150.0
42		150.0	150.0	103.2	150.0	150.0	150.0	150.0
48		150.0	150.0	94.8	142.2	150.0	150.0	150.0
54		150.0	150.0	88.7	133.1	150.0	150.0	150.0
60		150.0	150.0	84.3	126.4	150.0	150.0	150.0
66		150.0	150.0	81.1	121.7	150.0	150.0	150.0
72		150.0	150.0	79.0	118.5	150.0	146.7	150.0
78		150.0	150.0	77.8	116.7	150.0	144.4	150.0
84		150.0	150.0	77.4	116.1	150.0	143.7	150.0
36	90	150.0	150.0	105.3	150.0	150.0	150.0	150.0
42		150.0	150.0	94.2	141.3	150.0	150.0	150.0
48		150.0	150.0	86.2	129.3	150.0	150.0	150.0
54		150.0	150.0	80.3	120.4	150.0	149.0	150.0
60		150.0	150.0	75.8	113.8	150.0	140.8	150.0
66		142.2	150.0	72.6	108.9	145.1	134.7	150.0
72		139.6	150.0	70.2	105.3	140.4	130.4	150.0
78		136.4	150.0	68.6	103.0	137.3	127.4	150.0
84		134.6	150.0	67.7	101.6	135.4	125.7	150.0
36	96	150.0	150.0	97.2	145.8	150.0	150.0	150.0
42		150.0	150.0	86.7	130.0	150.0	150.0	150.0
48		150.0	150.0	79.0	118.5	150.0	146.7	150.0
54		145.6	150.0	73.3	109.9	146.6	136.0	150.0
60		137.0	150.0	68.9	103.4	137.9	128.0	150.0
66		130.5	150.0	65.7	98.5	131.3	121.9	150.0
72		125.6	150.0	63.2	94.8	126.4	117.3	150.0
78		122.0	150.0	61.4	92.1	122.8	114.0	150.0
84		119.6	150.0	60.2	90.3	120.4	111.7	150.0
36	102	150.0	150.0	90.3	135.4	150.0	150.0	150.0
42		150.0	150.0	80.3	120.4	150.0	149.0	150.0
48		144.9	150.0	72.9	109.4	145.8	135.4	150.0
54		134.0	150.0	67.4	101.1	134.8	125.2	150.0
60		125.6	150.0	63.2	94.8	126.4	117.3	150.0
66		119.1	150.0	60.0	89.9	119.9	111.3	150.0
72		114.2	150.0	57.5	86.2	114.9	106.7	150.0
78		110.4	150.0	55.6	83.3	111.1	103.2	150.0
84		107.7	150.0	54.2	81.3	108.3	100.6	150.0
36	108	150.0	150.0	84.3	126.4	150	150.0	150.0
42		148.5	150.0	74.7	112.1	149.4	138.7	150.0
48		134.6	150.0	67.7	101.6	135.4	125.7	150.0
54		124.0	150.0	62.4	93.6	124.8	115.9	150.0
60		115.9	150.0	58.3	87.5	116.7	108.3	150.0
66		109.6	150.0	55.2	82.7	110.3	102.4	150.0
72		104.7	150.0	52.7	79.0	105.3	97.8	146.7
78		100.8	150.0	50.7	76.1	101.5	94.2	141.3

HEAD ANCHOR CAPACITY - PSF									
SGD PANEL SIZES		ANCHOR TYPE "C"		ANCHOR TYPE "D"			ANCHOR TYPE "E"		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	C4 +/-	C6 +/-	D4 +/-	D6 +/-	D8 +/-	E4 +/-	E6 +/-	
36	114	150.0	150.0	79.0	118.5	150.0	146.7	150.0	
42		138.9	150.0	69.9	104.8	139.8	129.8	150.0	
48		125.6	150.0	63.2	94.8	126.4	117.3	150.0	
54		115.5	150.0	58.1	87.2	116.2	107.9	150.0	
60		107.7	150.0	54.2	81.3	100.6	100.6	150.0	
66		101.5	150.0	51.5	76.6	94.8	94.8	142.2	
72		96.6	144.9	48.6	72.9	90.3	90.3	135.4	
36		120	147.8	150.0	74.4	111.5	148.7	138.0	150.0
42			130.5	150.0	65.7	98.5	131.3	121.9	150.0
48	117.8		150.0	59.3	88.9	118.5	110.0	150.0	
54	108.0		150.0	54.4	81.5	108.7	100.9	150.0	
60	100.5		150.0	50.6	75.8	101.1	93.9	149.3	
66	94.5		141.7	47.5	71.3	95.1	88.3	140.4	
72	89.7		134.6	45.1	67.7	90.3	93.8	133.3	
36	126		139.6	150.0	70.2	105.3	140.4	130.4	150.0
42			123.0	150.0	61.9	92.9	123.8	114.9	150.0
48		110.8	150.0	55.8	83.6	111.5	103.5	150.0	
54		101.5	150.0	51.1	76.6	102.1	94.8	142.2	
60		94.2	141.3	47.4	71.1	94.8	88.0	132.0	
66		88.4	132.6	44.5	66.7	89.0	82.6	123.9	
36		132	132.2	150.0	66.5	99.8	133.1	123.5	150.0
42			116.4	150.0	58.6	87.8	117.1	108.7	150.0
48			104.7	150.0	52.7	79.0	105.3	97.8	146.7
54	95.7		143.5	48.2	72.2	96.3	89.4	134.1	
60	88.7		133.0	44.6	66.9	89.2	82.8	124.2	
66	83.0		124.6	41.8	62.7	83.6	77.6	116.4	
36	138		125.6	150.0	63.2	94.8	126.4	117.3	150.0
42			110.4	150.0	55.6	83.3	111.1	103.2	150.0
48			99.2	147.8	49.9	74.8	99.8	92.6	138.9
54		90.5	135.8	45.5	68.3	91.1	84.6	126.8	
60		83.7	125.6	42.1	63.2	84.3	78.2	117.3	
36		144	119.6	150.0	60.2	90.3	120.4	111.7	150.0
42			105.0	150.0	52.9	79.3	105.7	98.1	147.2
48			94.2	141.3	47.4	71.1	94.8	88.0	132.0
54			85.9	128.8	43.2	64.8	86.4	80.2	120.3
60	79.3		119.0	39.9	59.9	79.8	74.1	111.2	

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

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A6



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.271.0117
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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

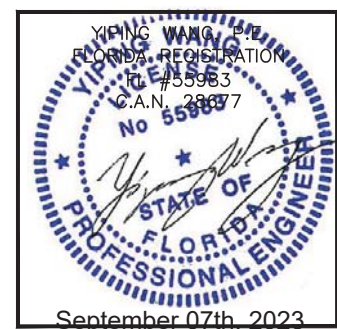
Drawn Date 09.05.2023	Scale
Drawing No. AD16-29	Sheet No. 24 OF 59

SILL ANCHOR CAPACITY - PSF				
SGD PANEL SIZES		ANCHOR TYPE "A" / "B"		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	A4 / B4 +/-	A6 / B6 +/-	A8 / B8 +/-
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 (IN)	DOOR HEIGHT (IN)	A4 / B4 +/-	A6 / B6 +/-	A8 / B8 +/-	
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	115.1	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	
66		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	
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	
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	

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

Rev. No.	Date	Drawn By	Description
R7	09.05.2023	James	UPDATE PFC 2023

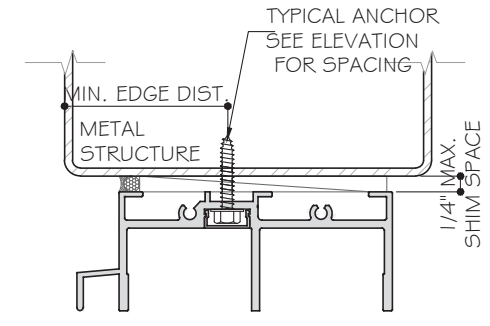
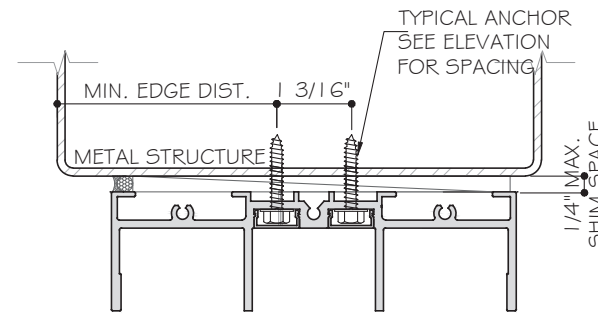
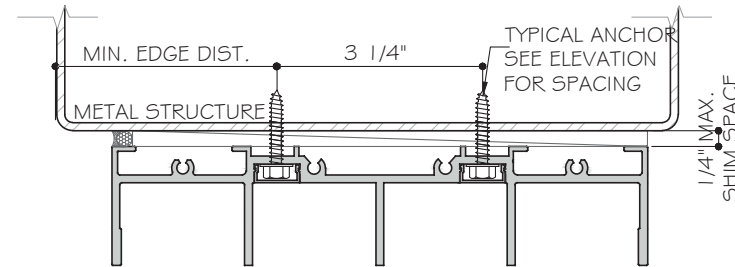
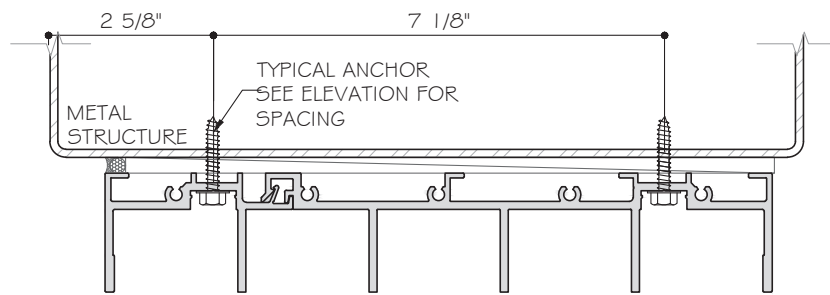
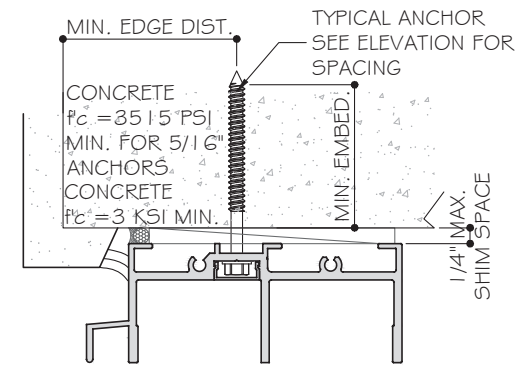
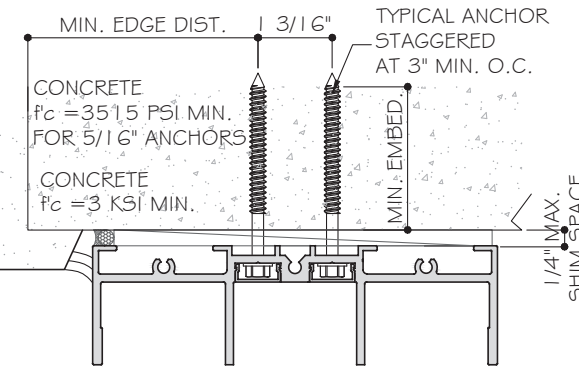
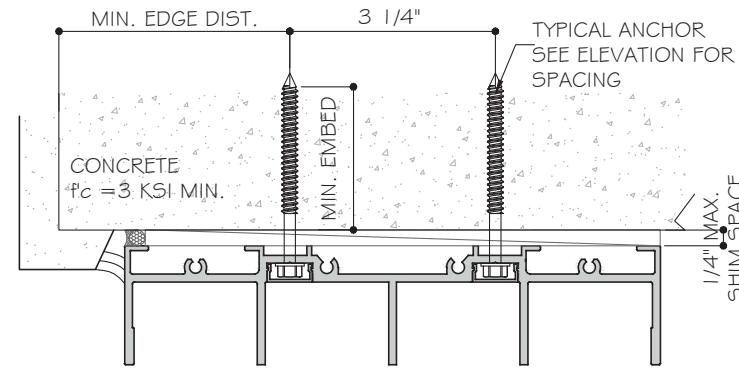
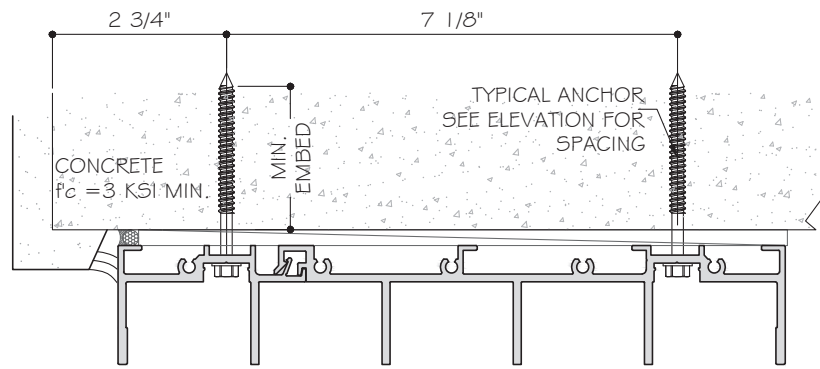
Drawn Date: 09.05.2023 Scale:

DRAWING NO. AD16-29

A5

Sheet No. 25 OF 59

September 07th, 2023

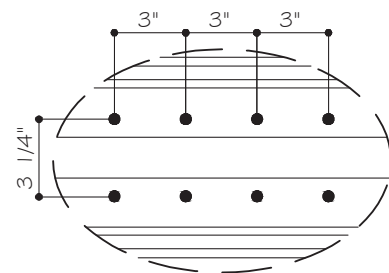


5 TRACK SGD

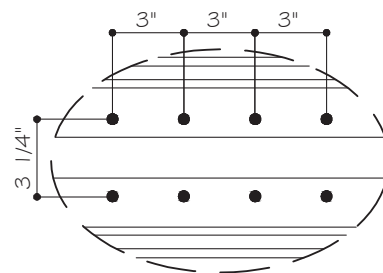
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3 TRACK SGD

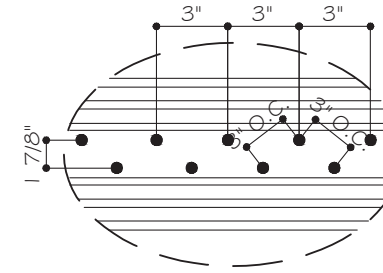
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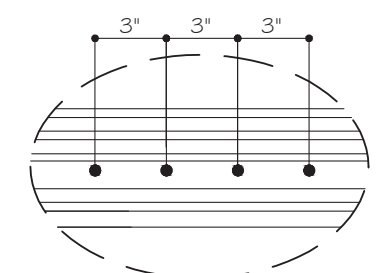
5 TRACK SGD



4 TRACK SGD



3 TRACK SGD



2 TRACK SGD

HEAD ANCHOR TYPES:

TYPE "A": 1/4" DIA. HILTI ($F_u=138$ 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+ 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. ULTRACON 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.)

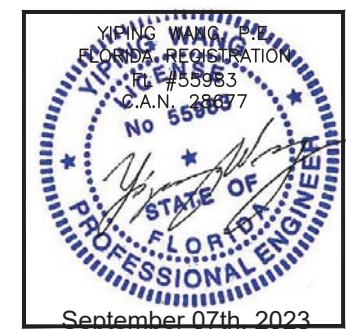
TYPE "E": 5/16" TEKS/DRIL-FLEX SCREW ($F_u=120$ KSI, $F_y=92$ KSI)
 INTO METAL STRUCTURE
 (3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y=36$ KSI, MIN.)

STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

- A4 - A CLUSTER OF (4) TYPE "A" ANCHORS AT HEAD
- AG - 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



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

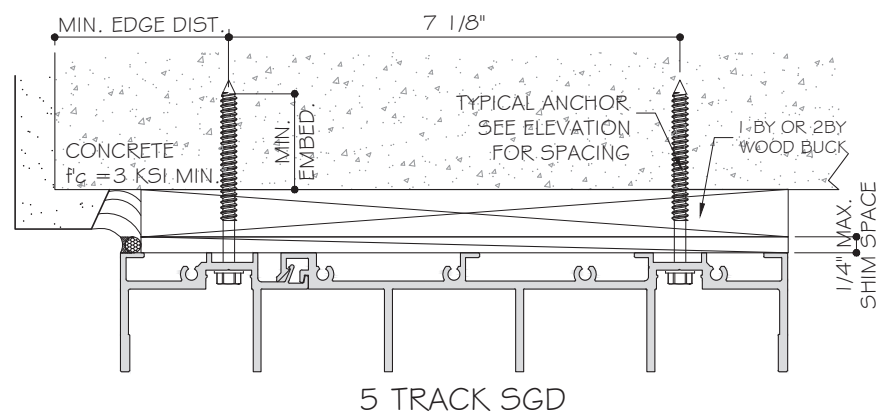
ES WINDOWS, INC.

10653 NE Quaybridge Ct.
 Miami, FL 33138

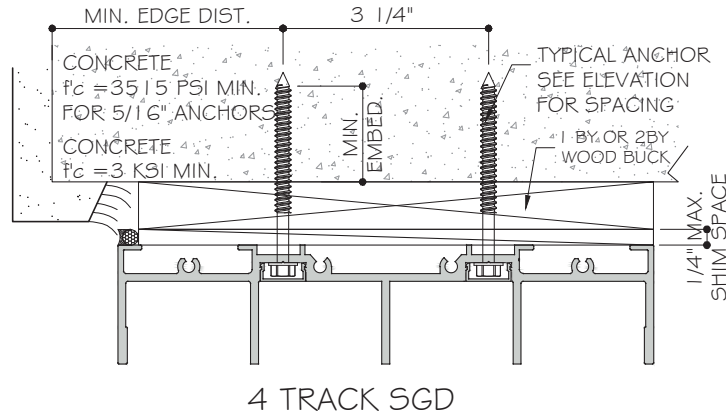
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 12781 MIRAMAR PARKWAY #301
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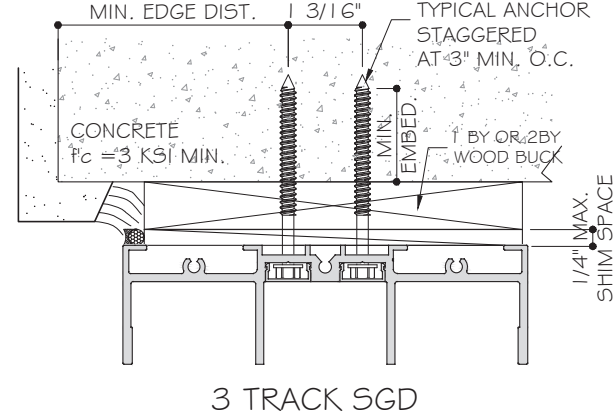
Rev. No.	Date	Drawn By	Description
R7	09.05.2023	James	UPDATE PFC 2023
Drawn Date	09.05.2023	Scale	
DRAWING NO. AD16-29			
A6			
Sheet No. 26 OF 59			



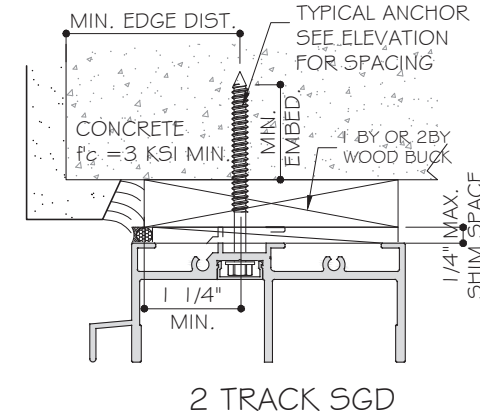
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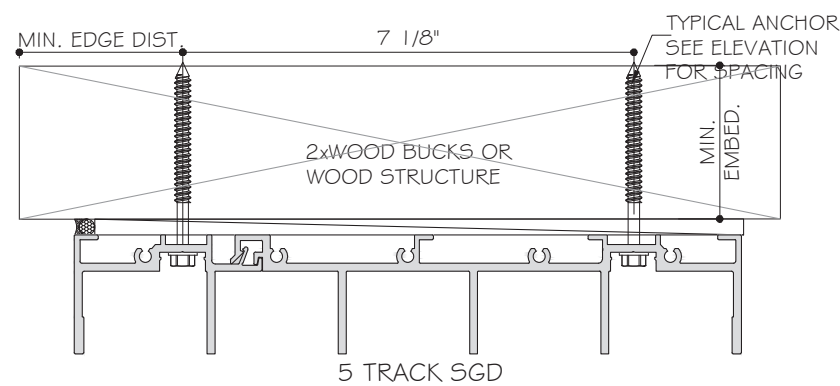
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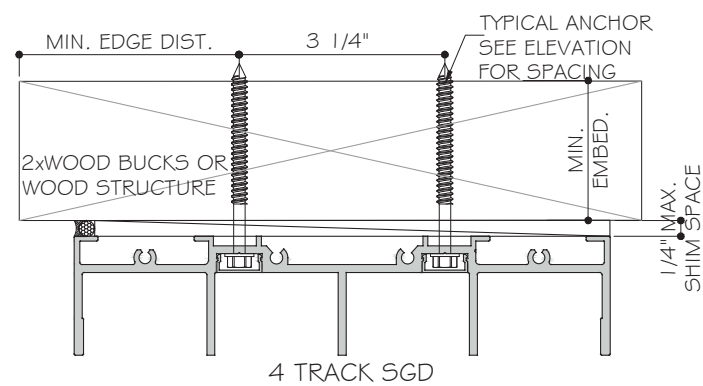
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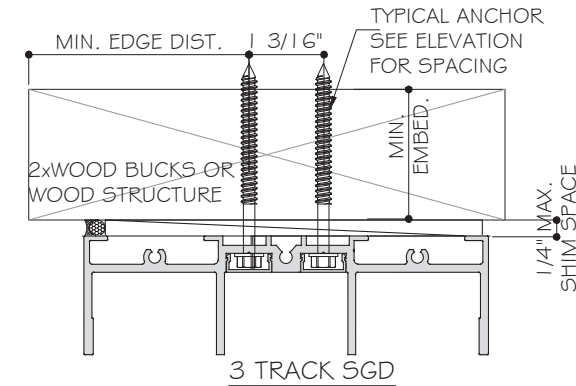
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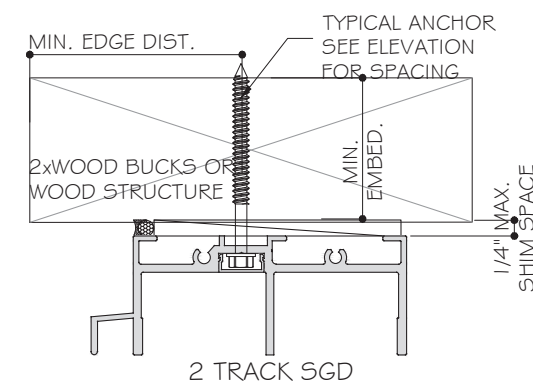
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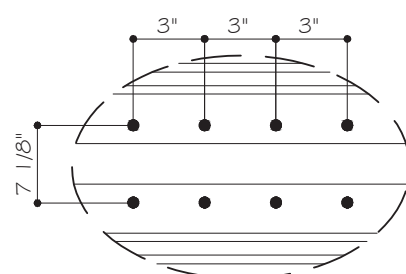
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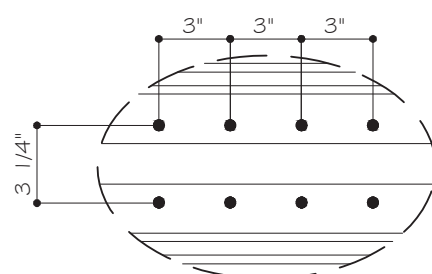
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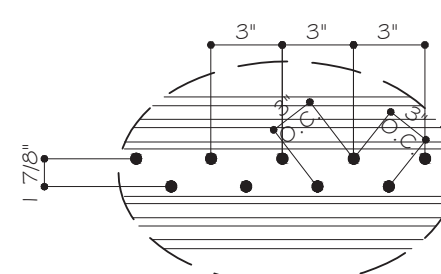
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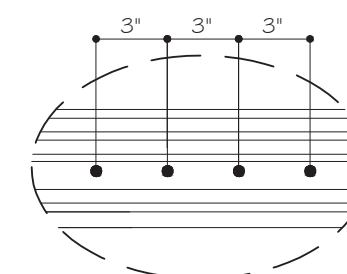
5 TRACK SGD



4 TRACK SGD



3 TRACK SGD



2 TRACK SGD

HEAD ANCHOR TYPES:

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

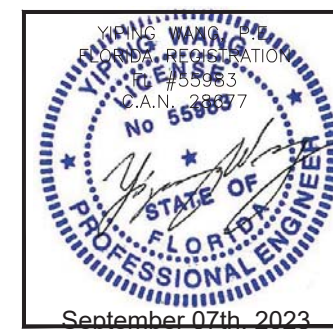
TYPE "BB": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
 1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
 $SG = 0.55 \text{ MIN.}$
 OR THRU 1 BY OR 2 BY WOOD BUCK WITH 1 3/4" MIN. EMBED INTO $f_c = 3000 \text{ PSI CONCRETE}$
 2 1/2" MIN. EDGE DISTANCE, 3" MIN.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

TYPE "CC": 5/16" DIA. ULTRACON BY DEWALT ($F_u = 177 \text{ KSI}$, $F_y = 155 \text{ KSI}$)
 1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
 $SG = 0.55 \text{ MIN.}$
 OR THRU 1 BY OR 2 BY WOOD BUCK WITH 1 3/4" MIN. EMBED INTO $f_c = 3000 \text{ PSI CONCRETE}$
 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 SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.



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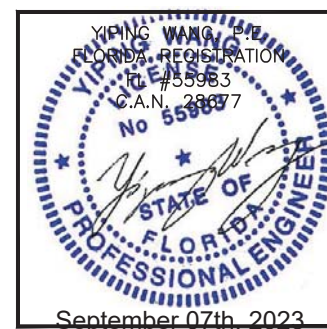
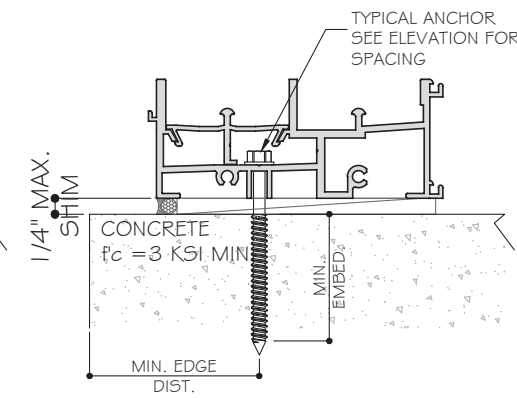
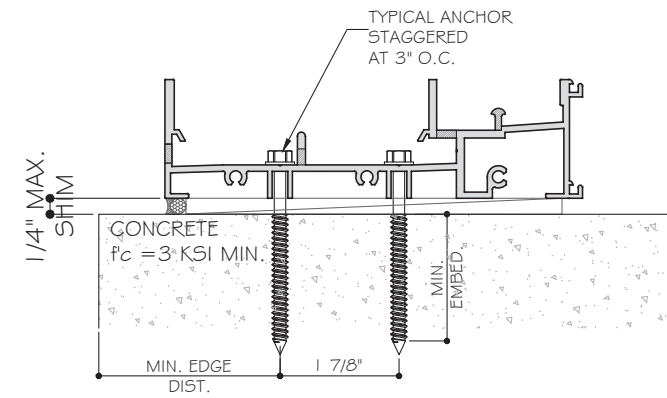
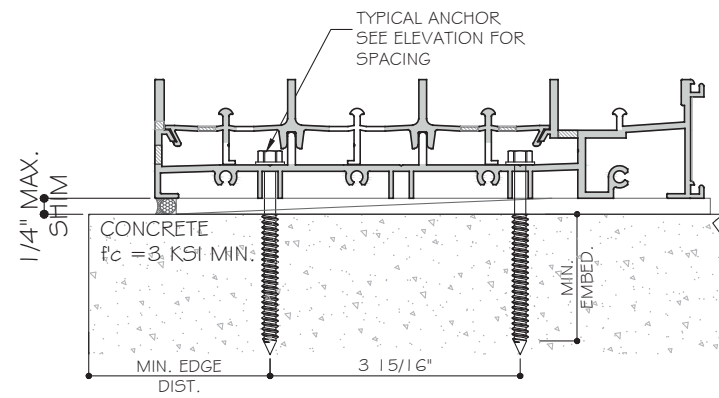
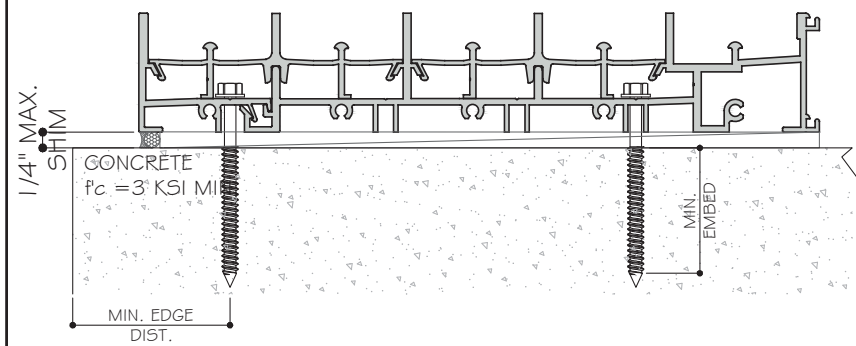
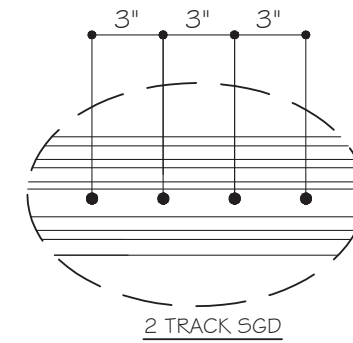
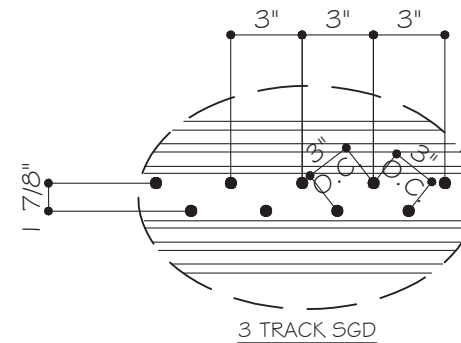
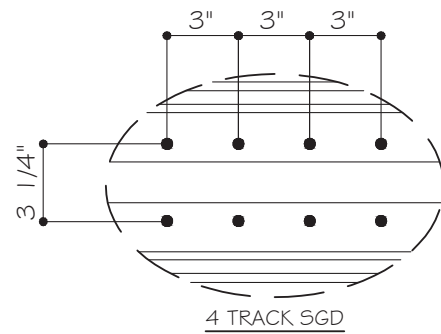
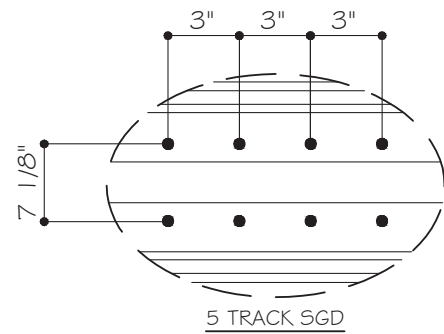
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SILL ANCHOR TYPES:

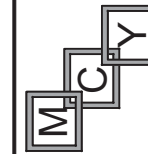
TYPE "A": 1/4" DIA. HILTI ($F_u=138$ KSI, $F_y=137$ KSI)
 1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
 2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

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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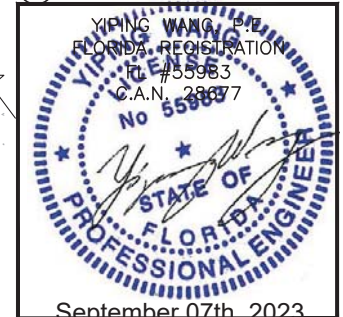
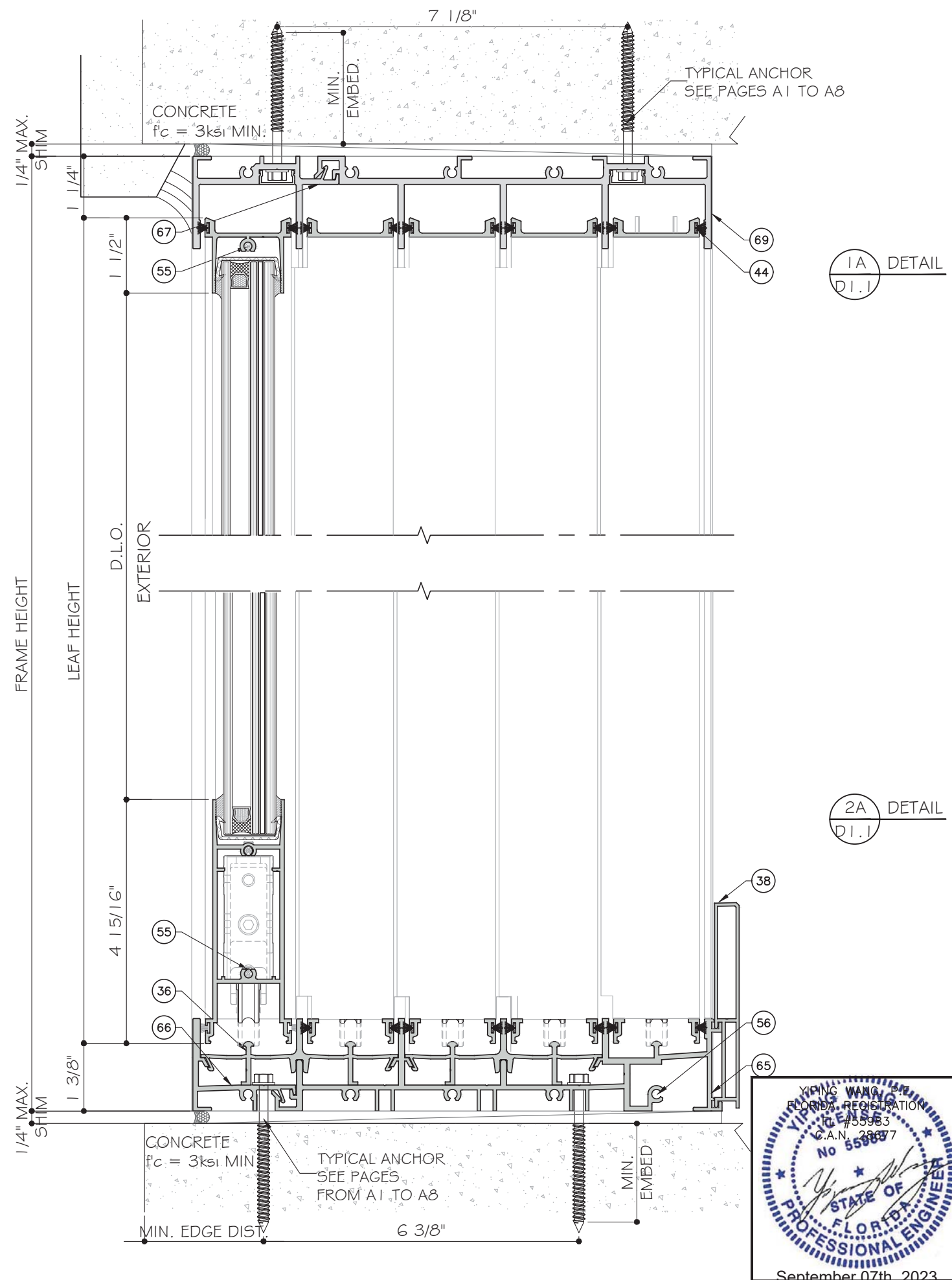
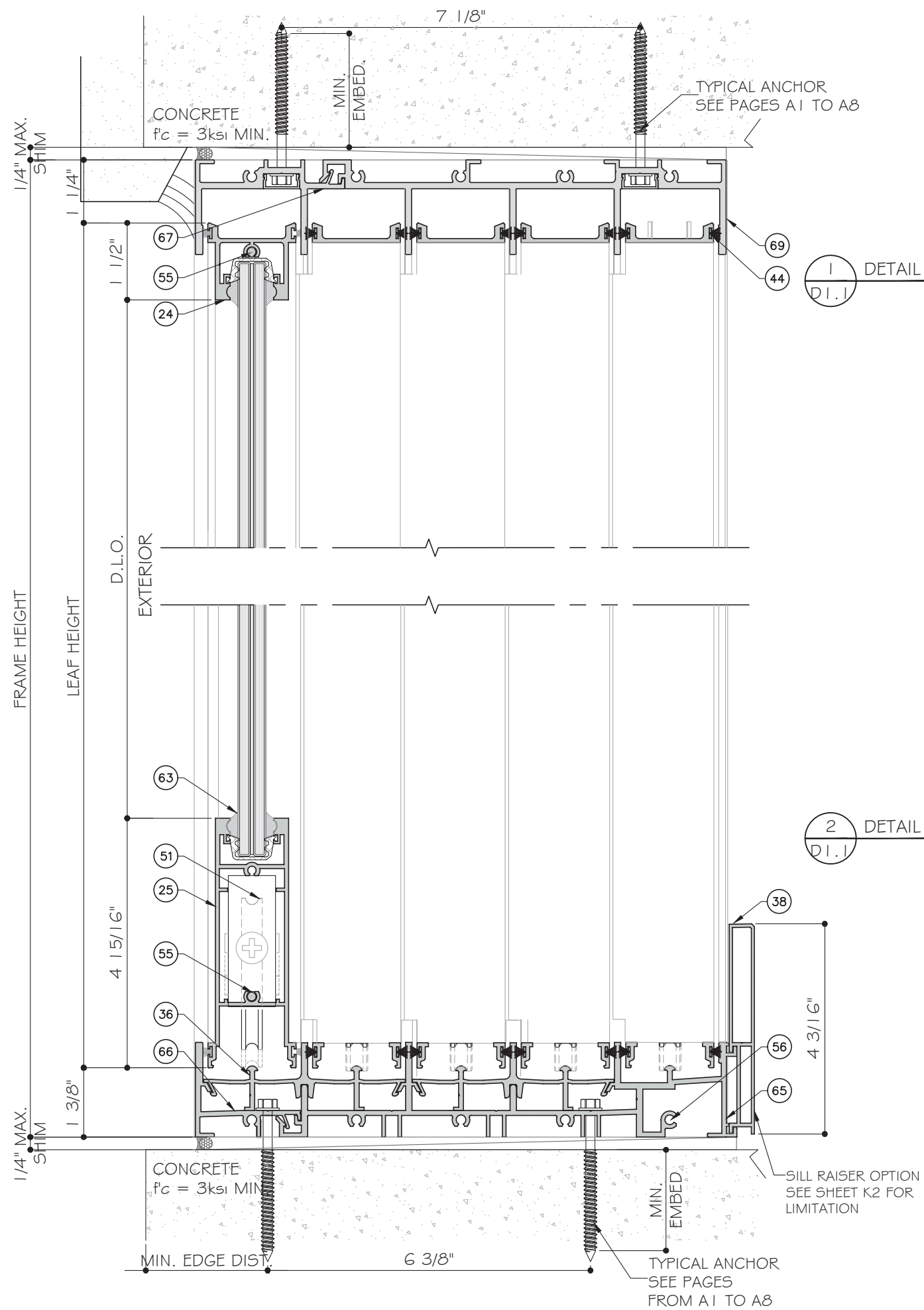
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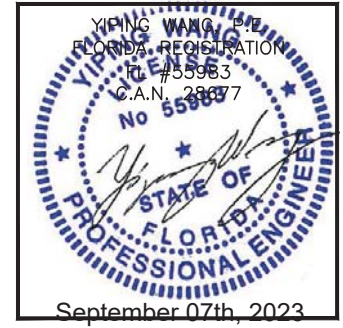
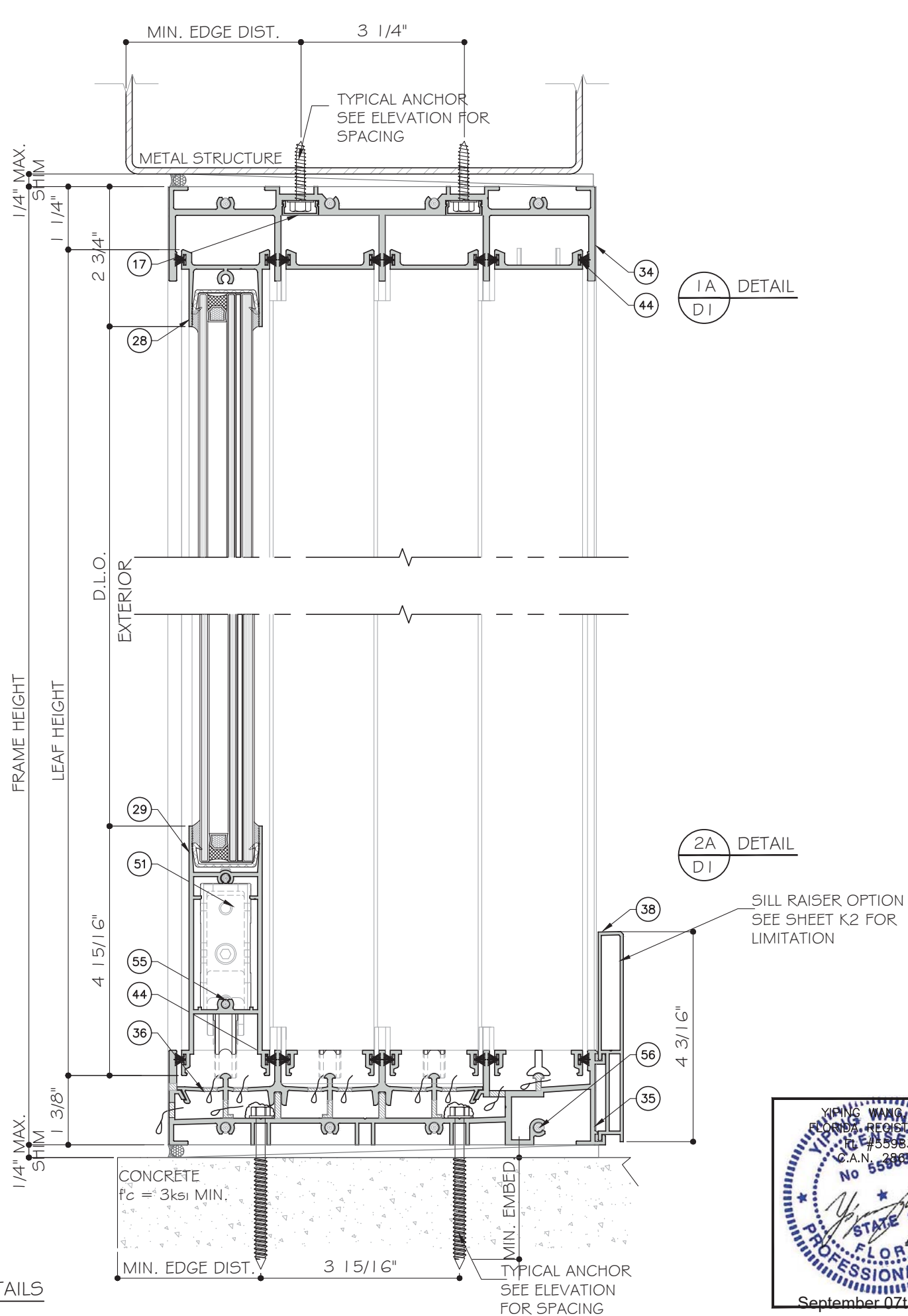
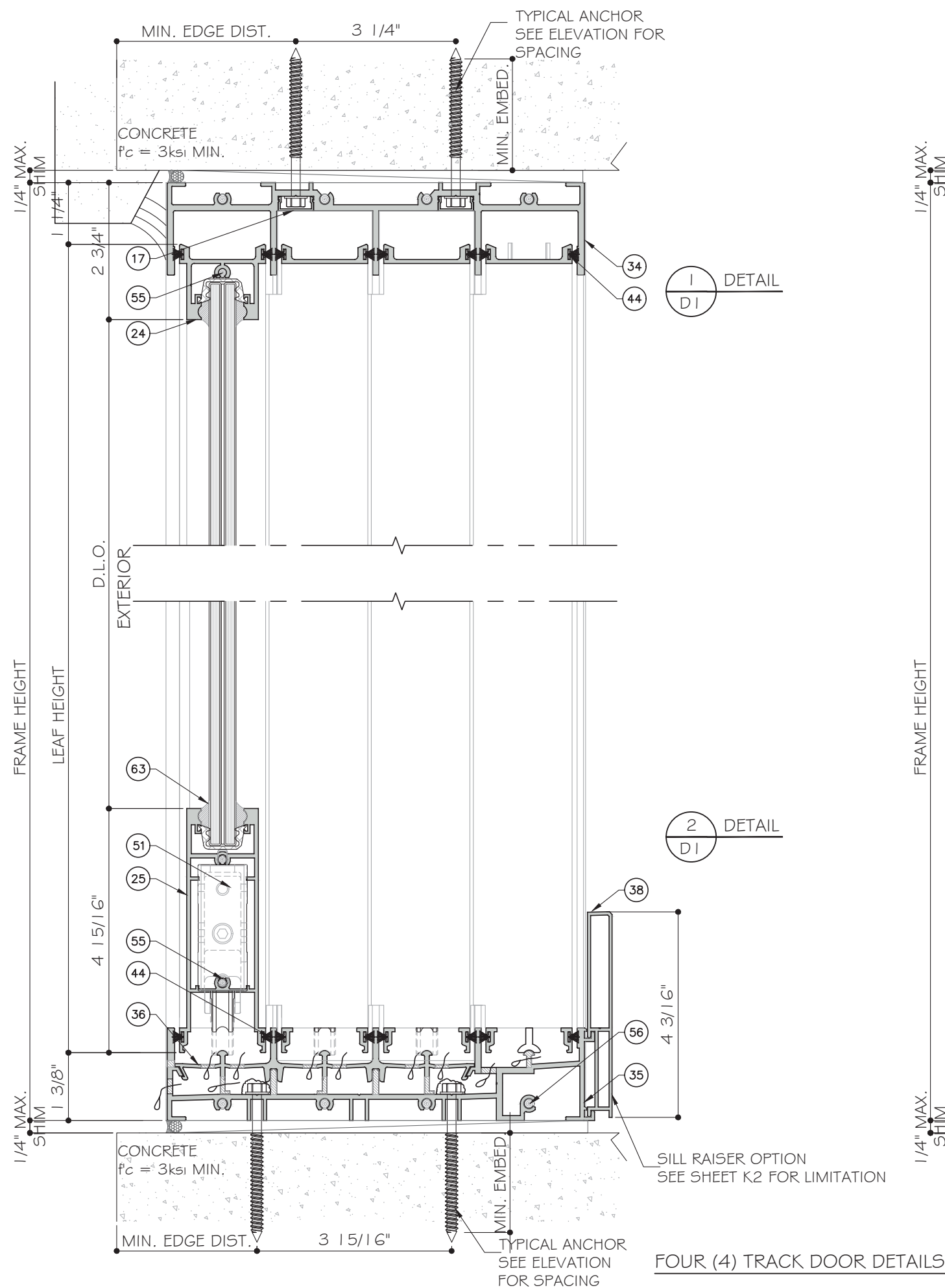
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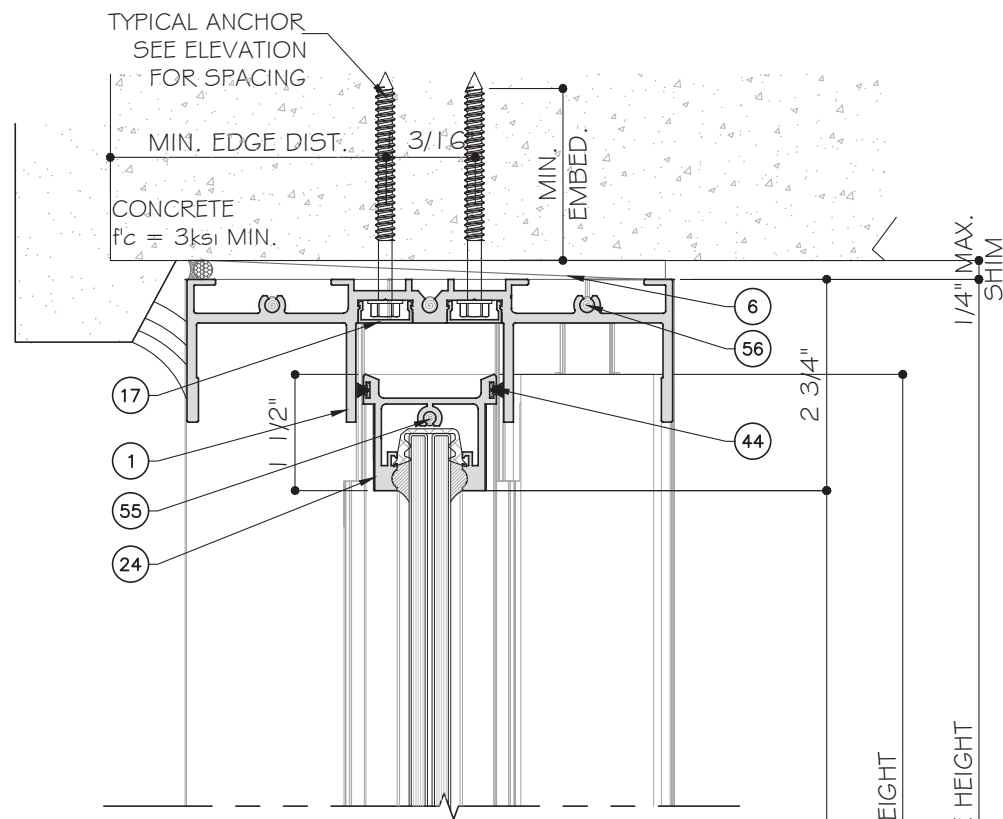
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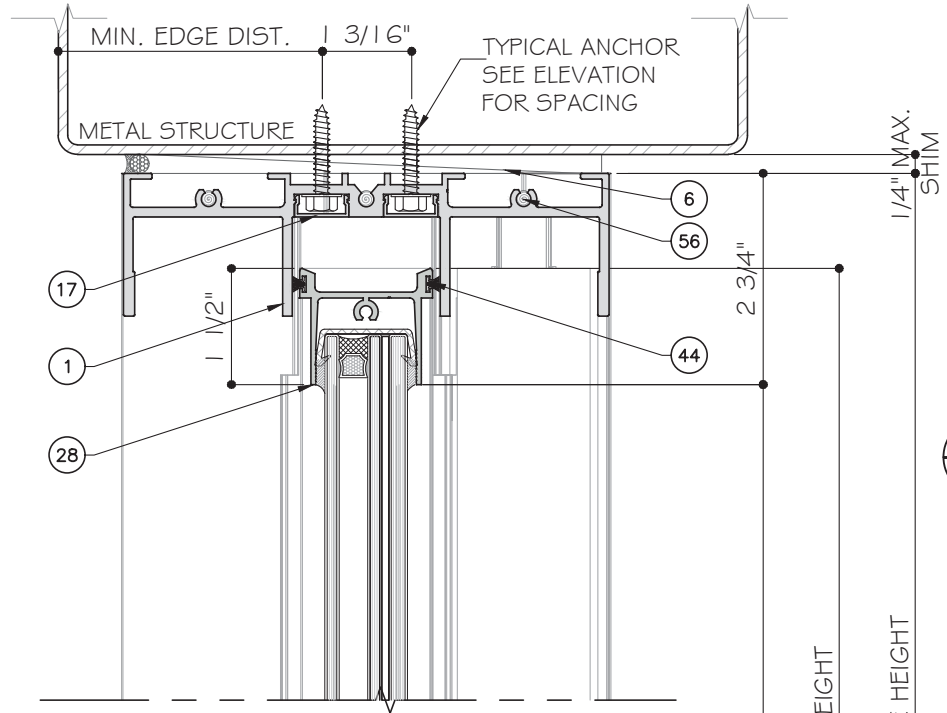
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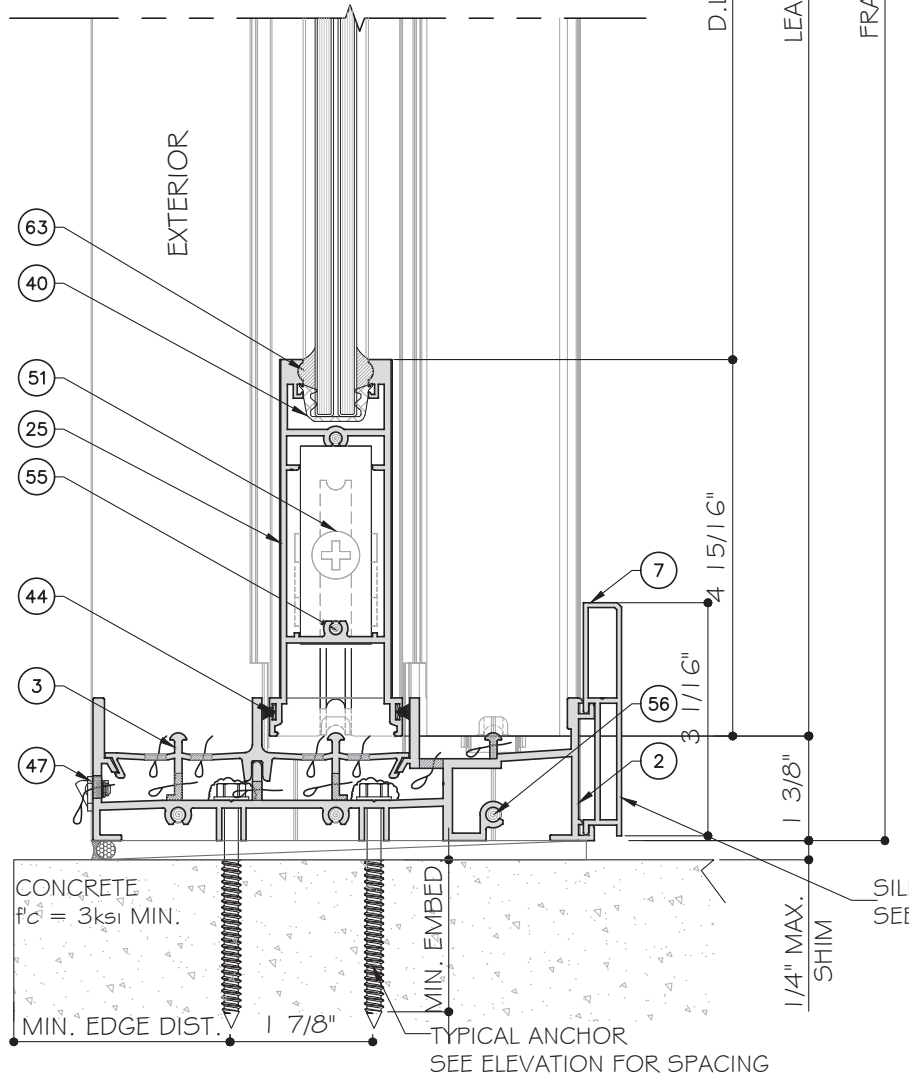
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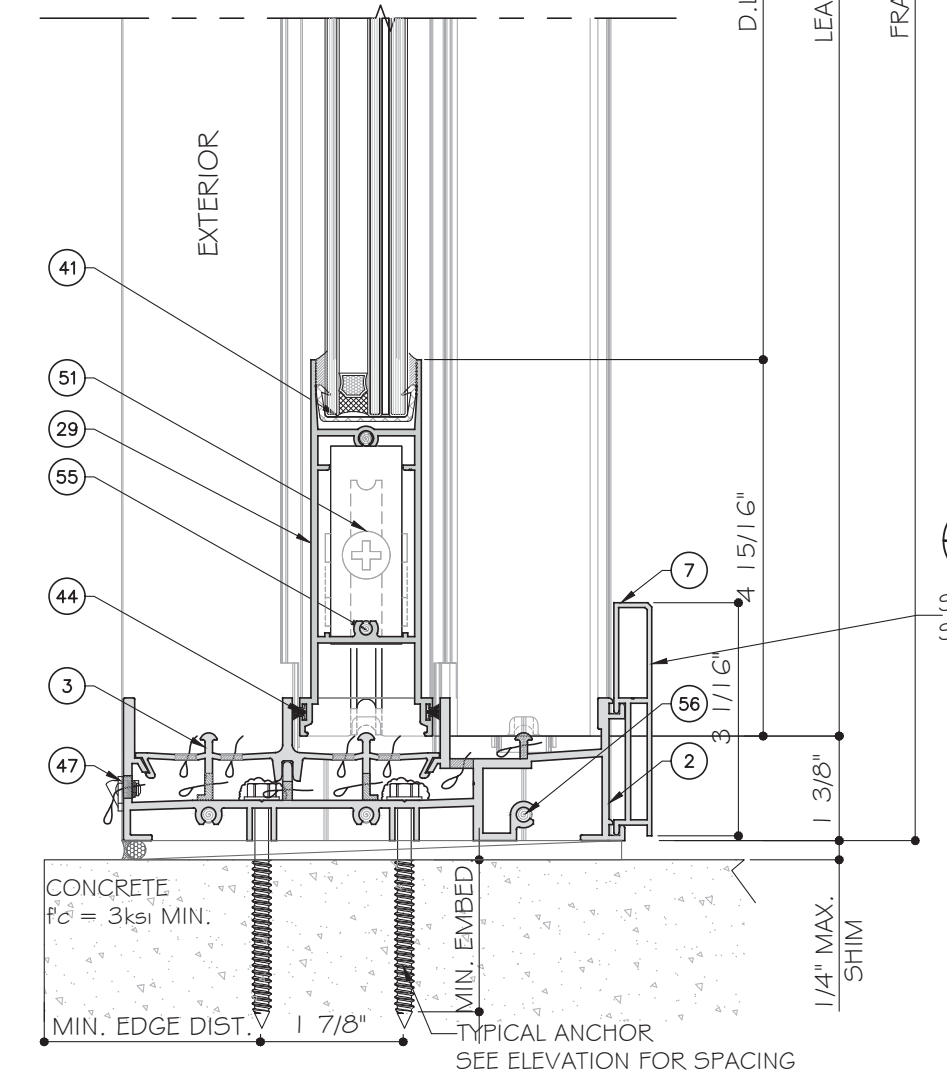
3
D2
DETAIL



3A
D2
DETAIL



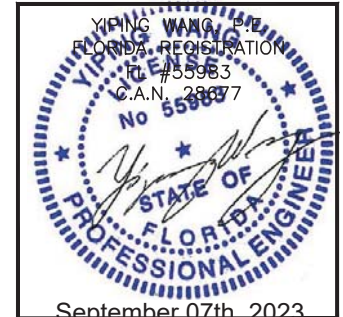
4
D2
DETAIL



4A
D2
DETAIL

SILL RAISER OPTION
SEE SHEET K2 FOR LIMITATION

THREE (3) TRACK DOOR DETAILS



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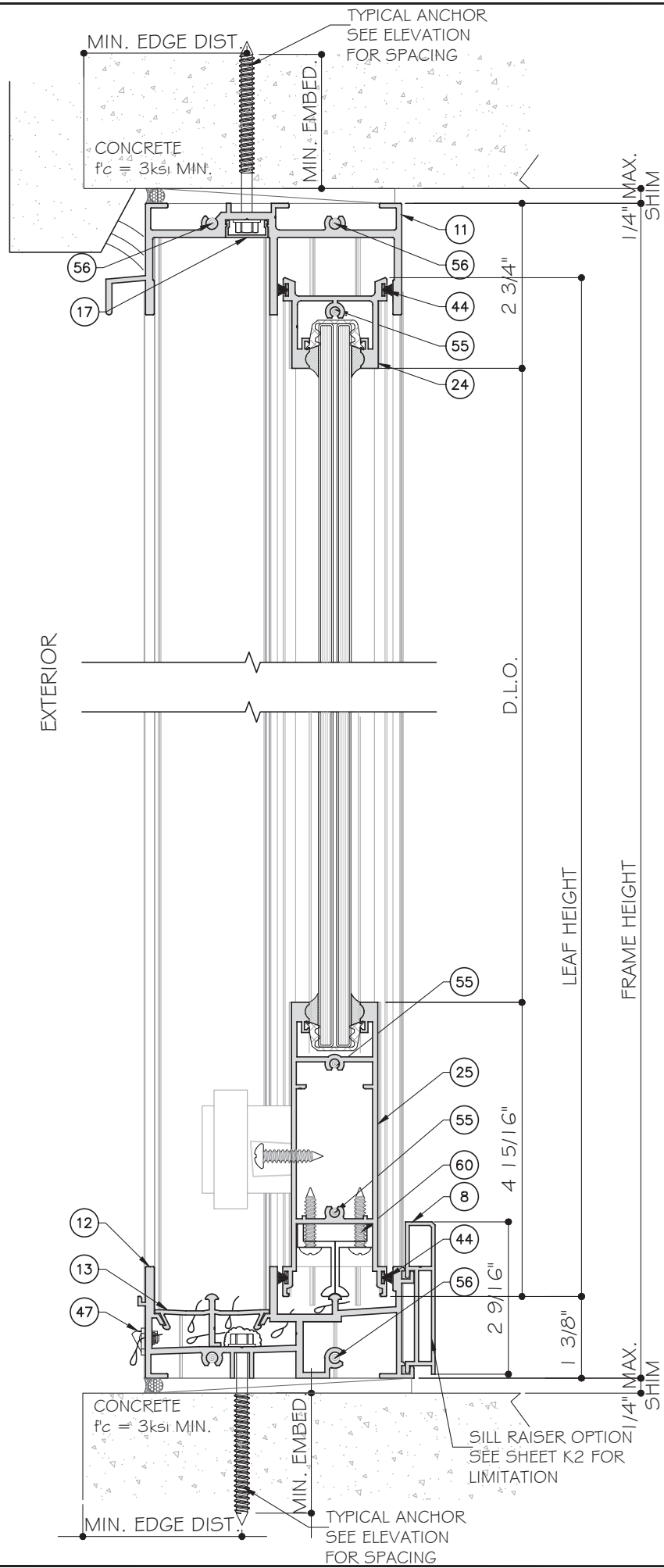
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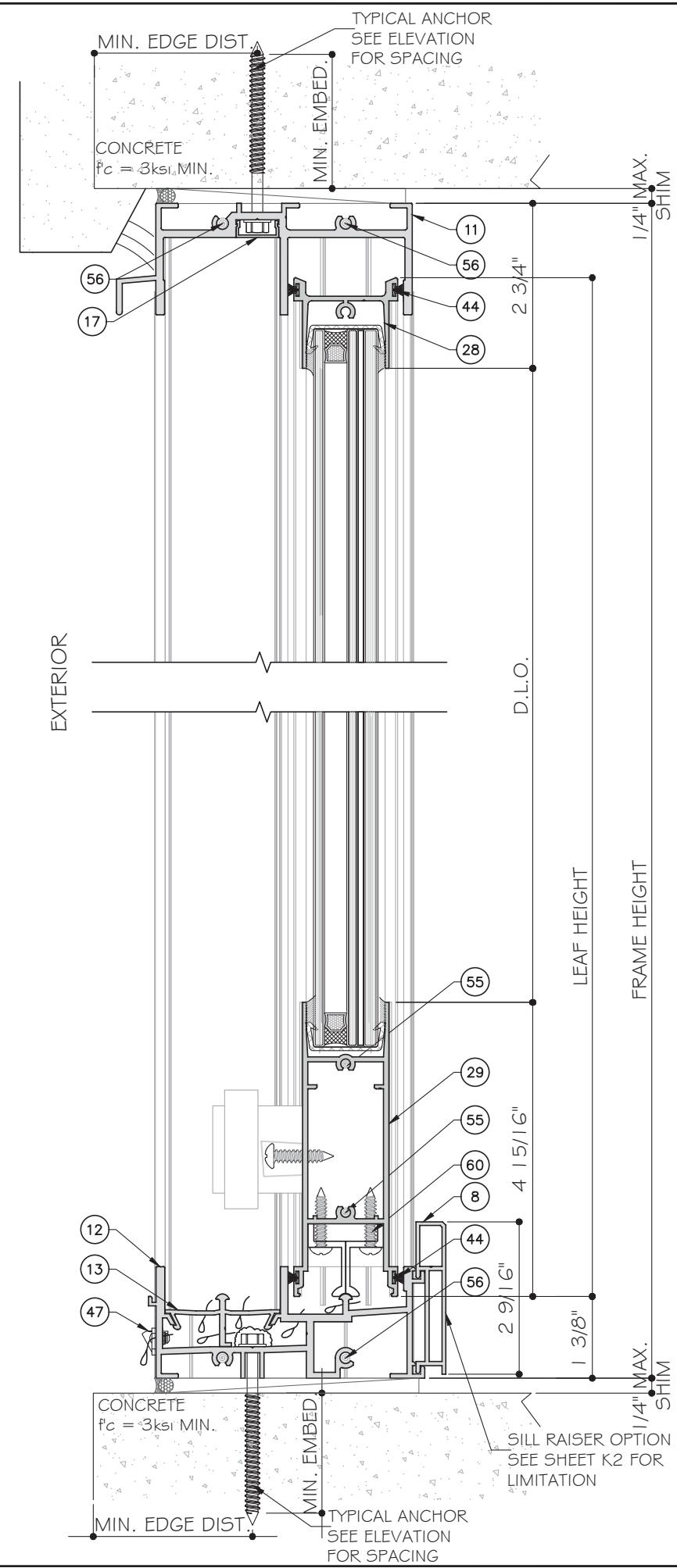
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5
D3
DETAIL

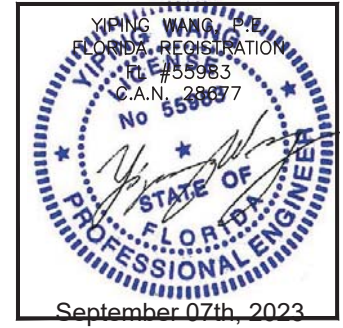
6
D3
DETAIL

TWO (2) TRACK DOOR DETAILS



5A
D3
DETAIL

6A
D3
DETAIL



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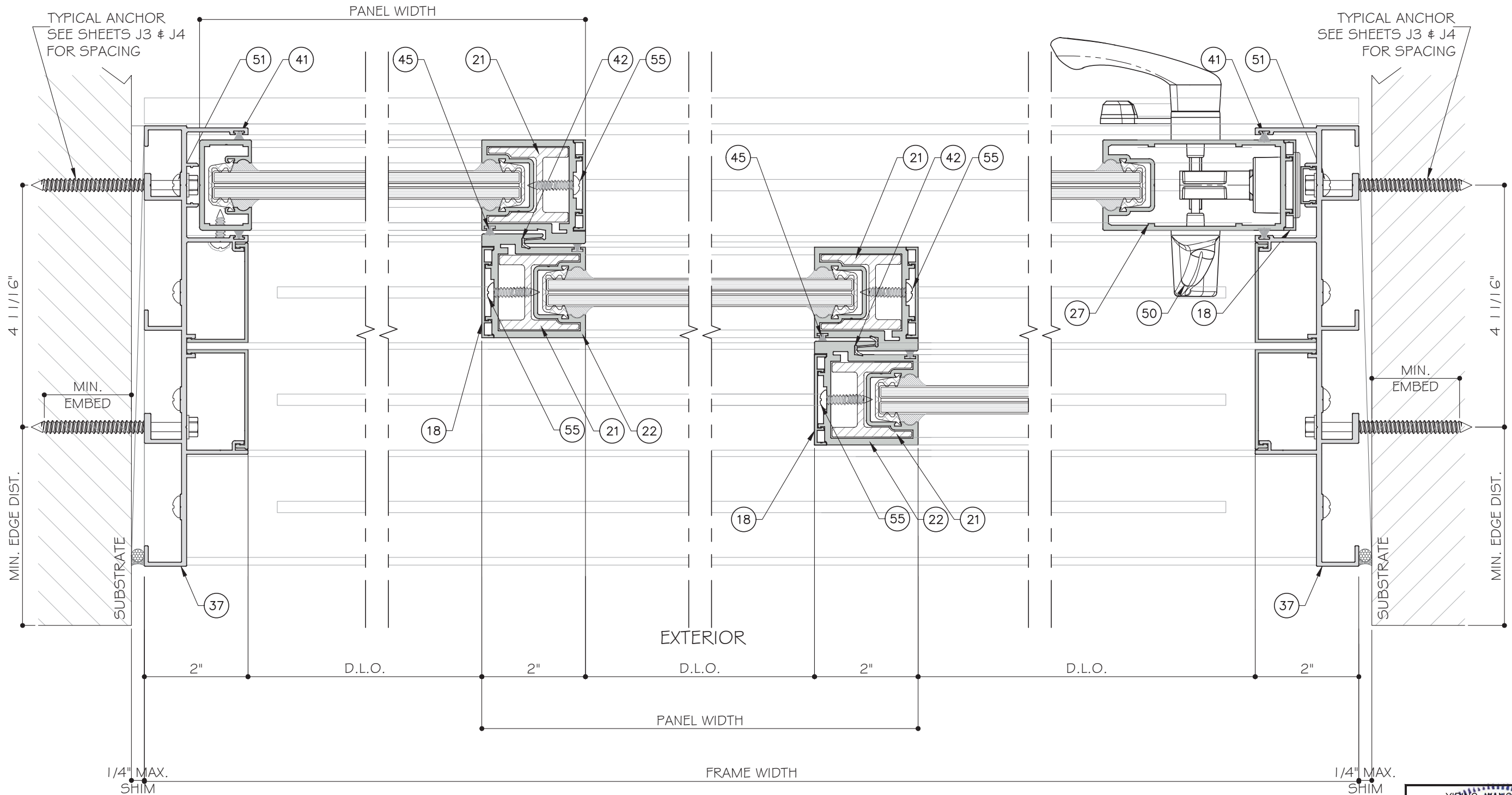
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D3

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



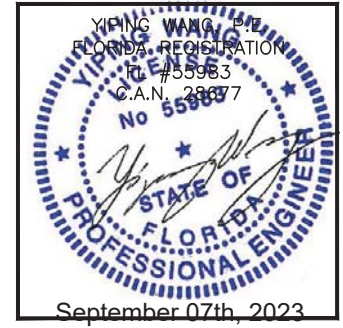
7
D4
DETAIL

8
D4
DETAIL

9
D4
DETAIL

7A
D4
DETAIL

FOUR (4) TRACK DOOR DETAILS



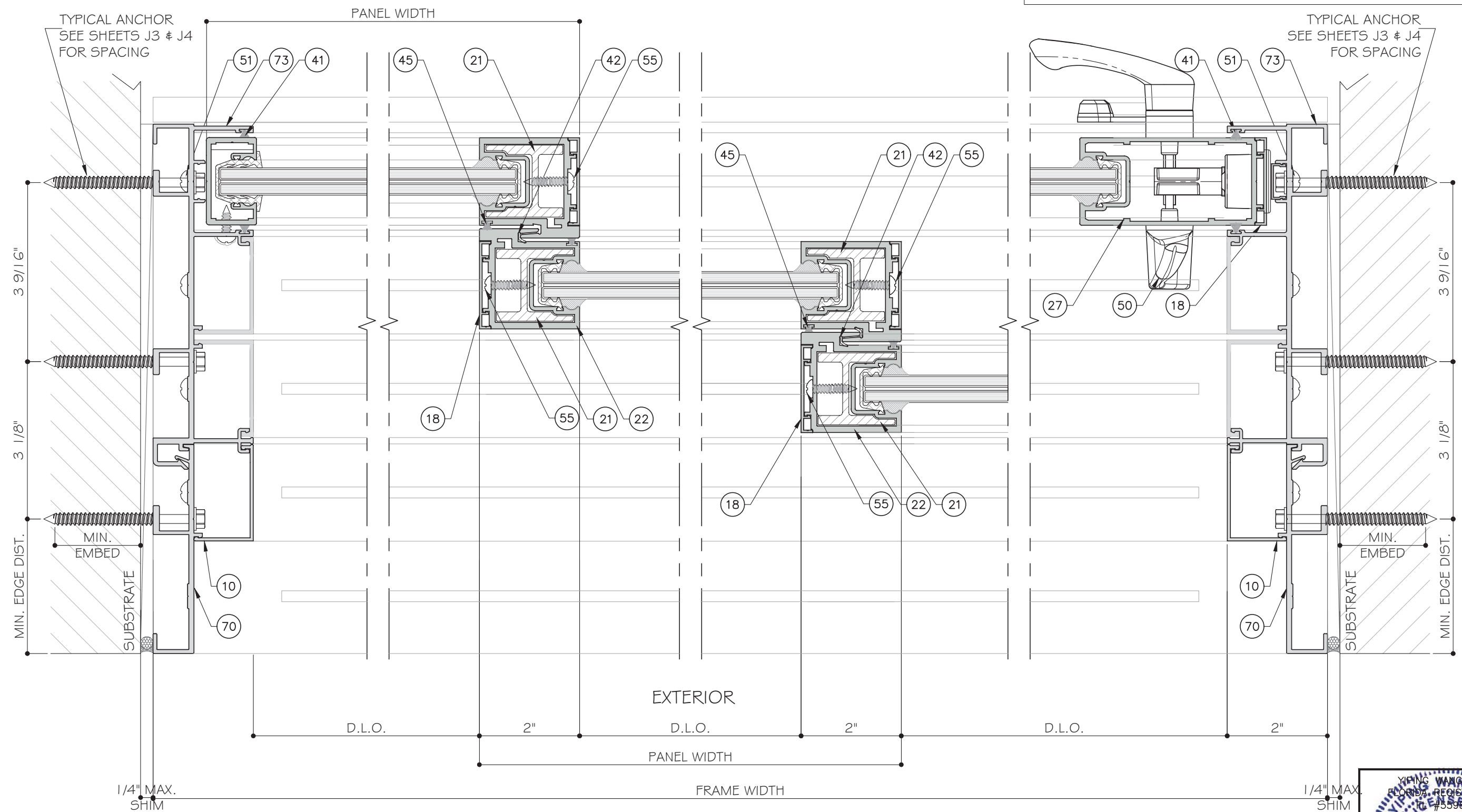
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
 LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.



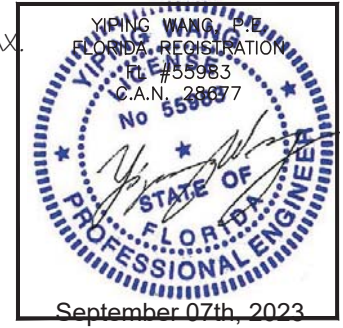
7
D4.1
DETAIL

8
D4.1
DETAIL

9
D4.1
DETAIL

7A
D4.1
DETAIL

FIVE (5) TRACK DOOR DETAILS

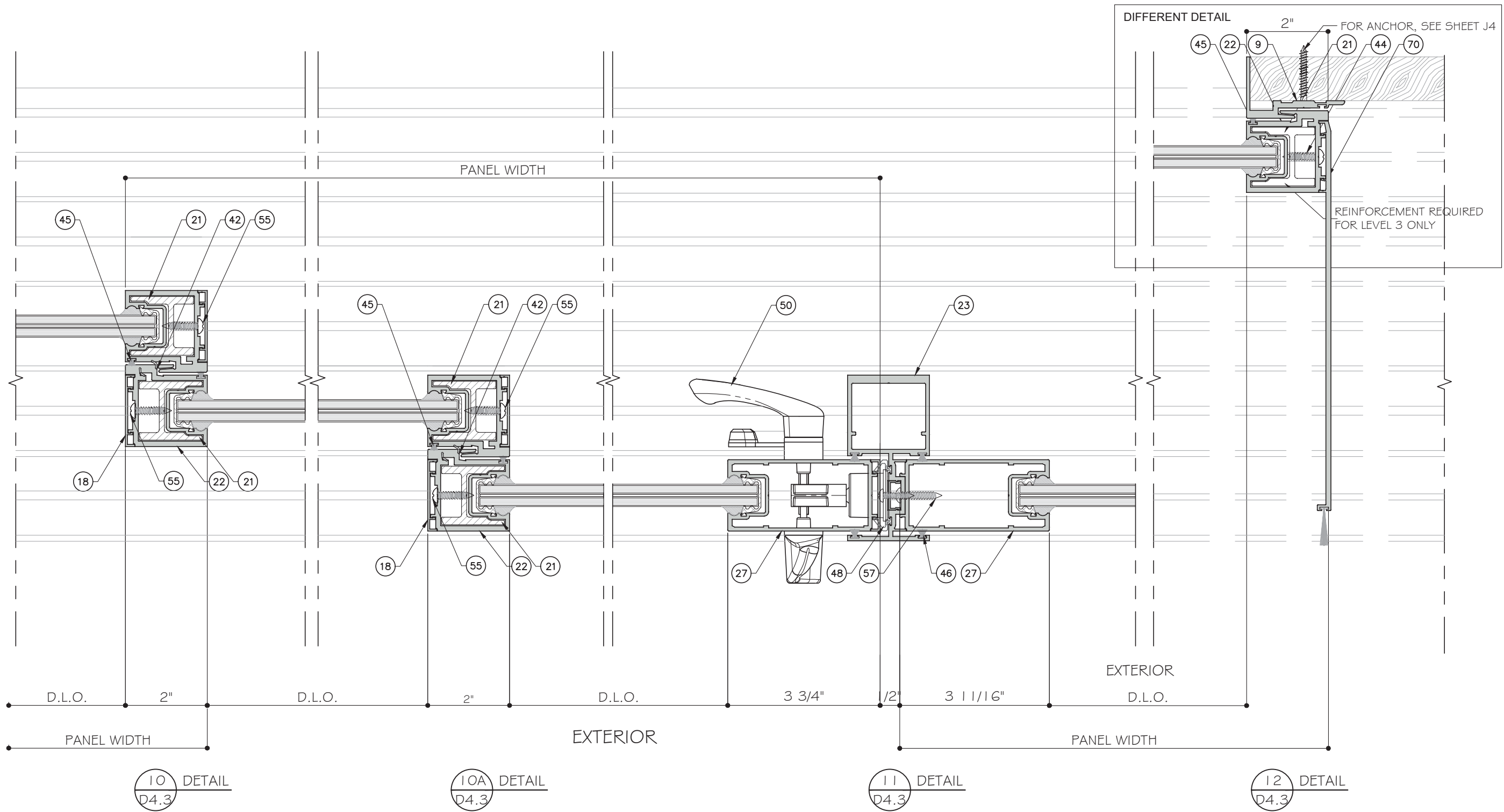


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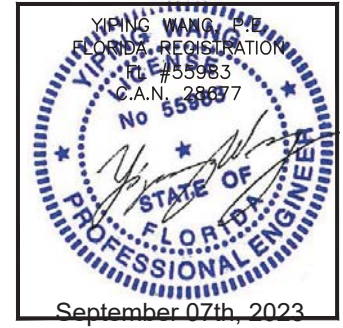
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

FIVE (5) TRACK DOOR DETAILS

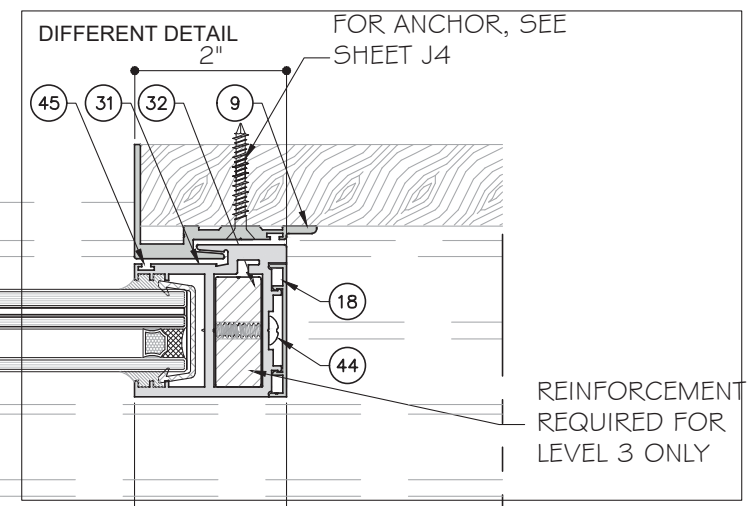
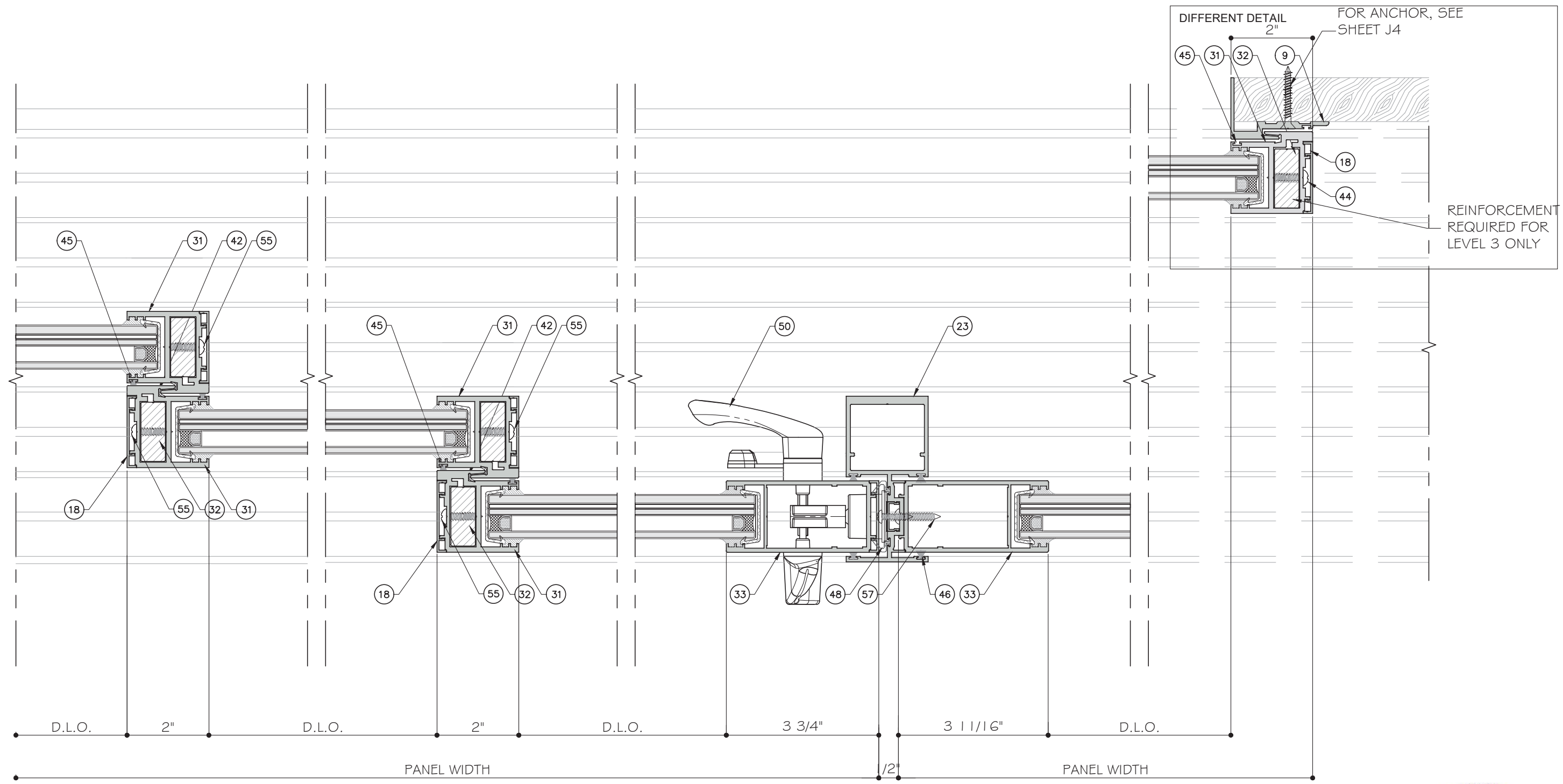


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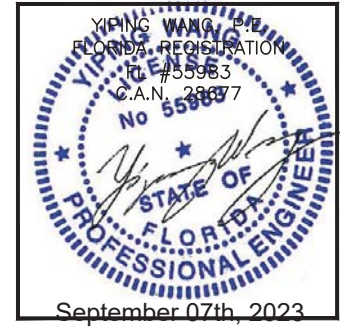
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

EXTERIOR
FIVE (5) TRACK DOOR DETAILS

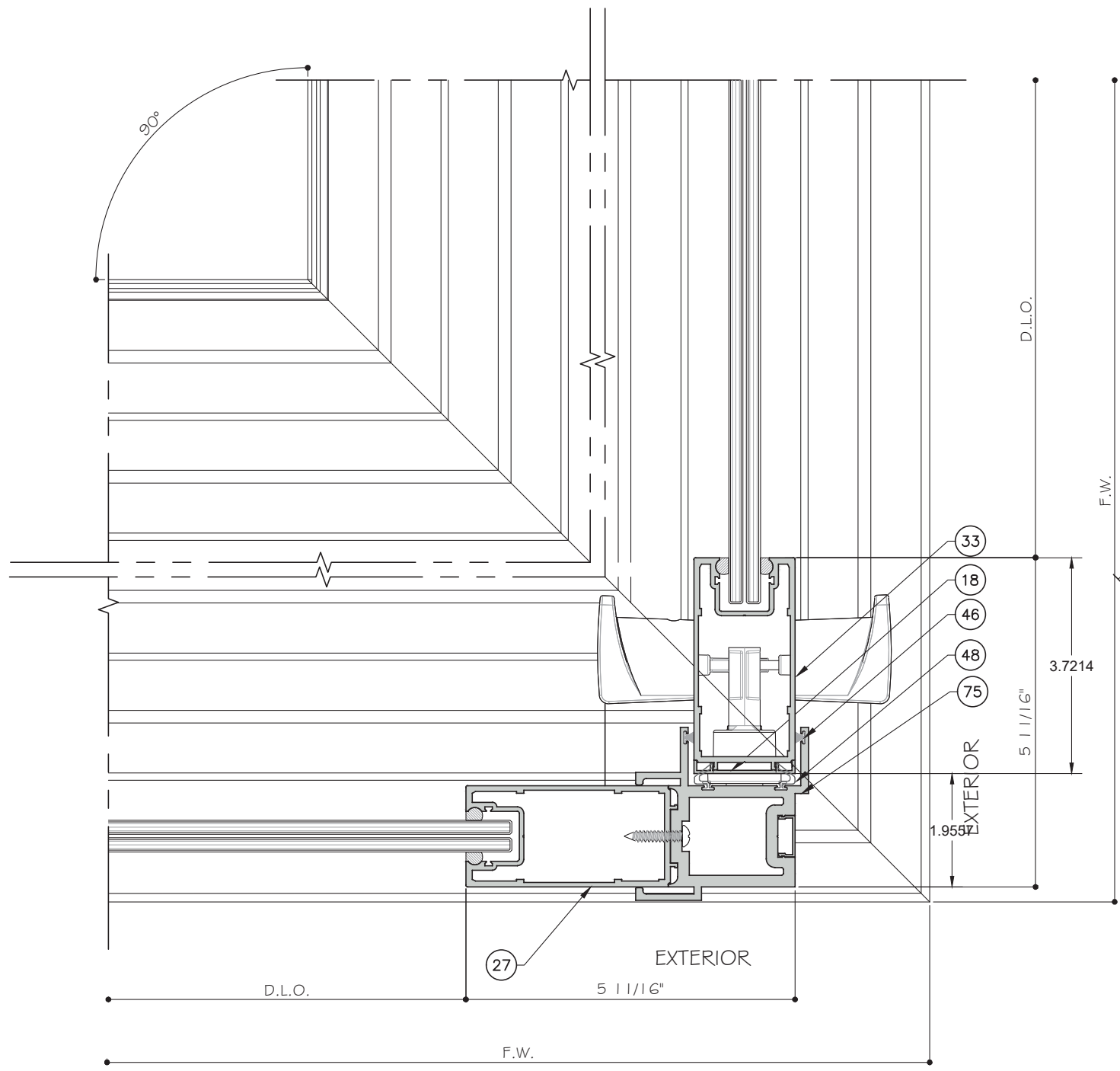


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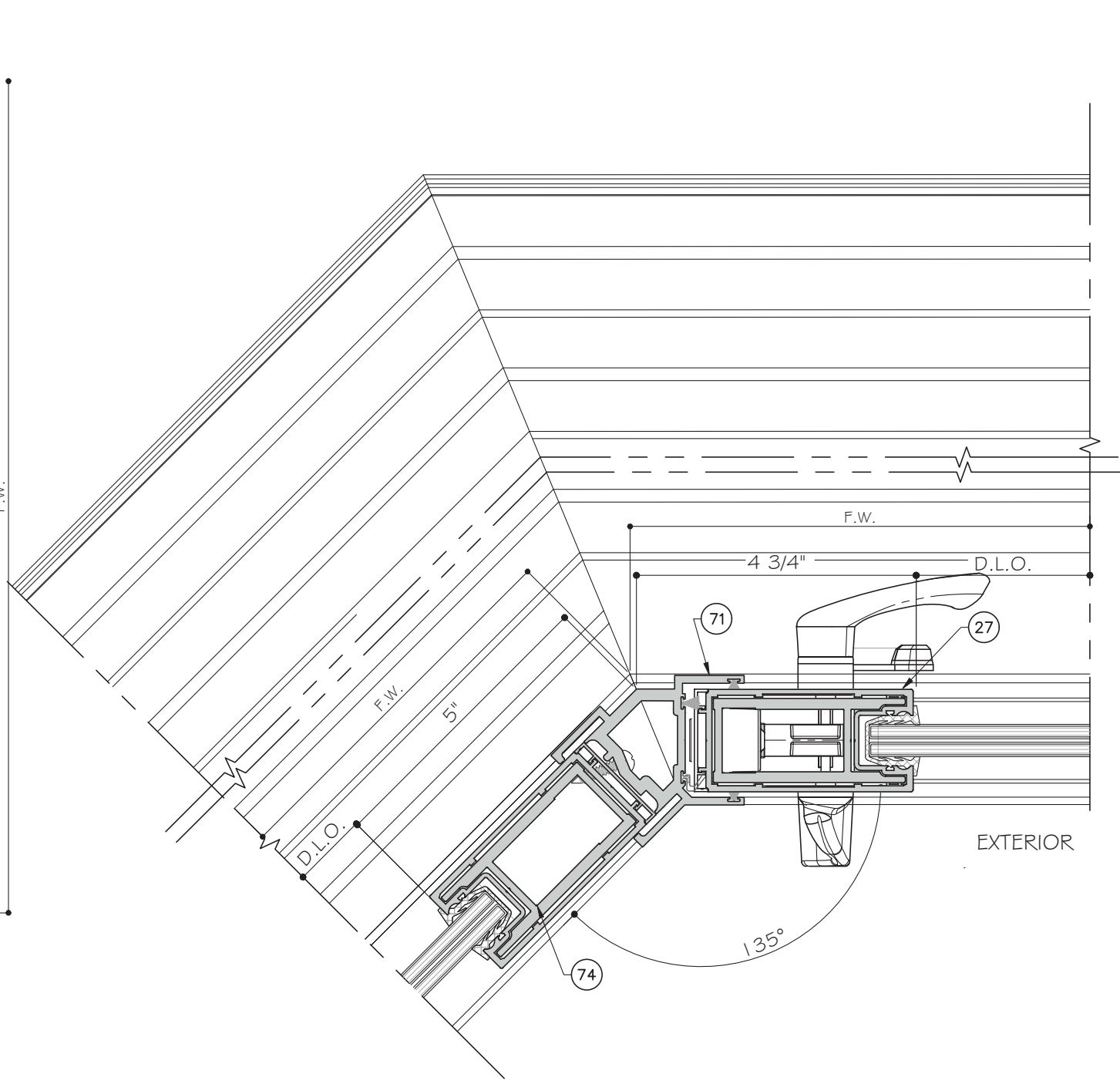
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43 DETAIL
D4.5

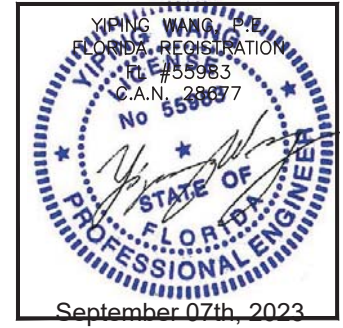


44 DETAIL
D4.5

CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

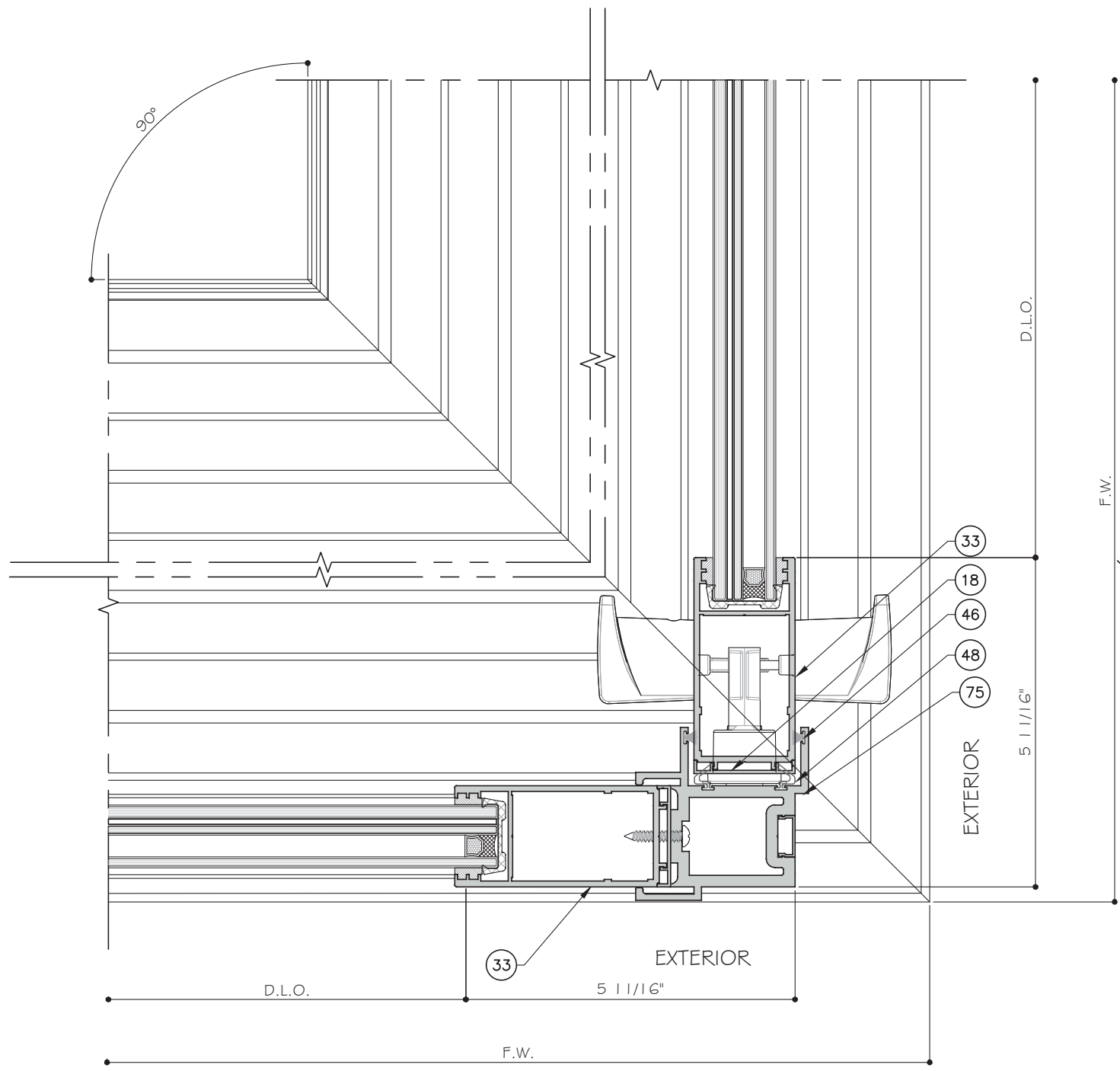
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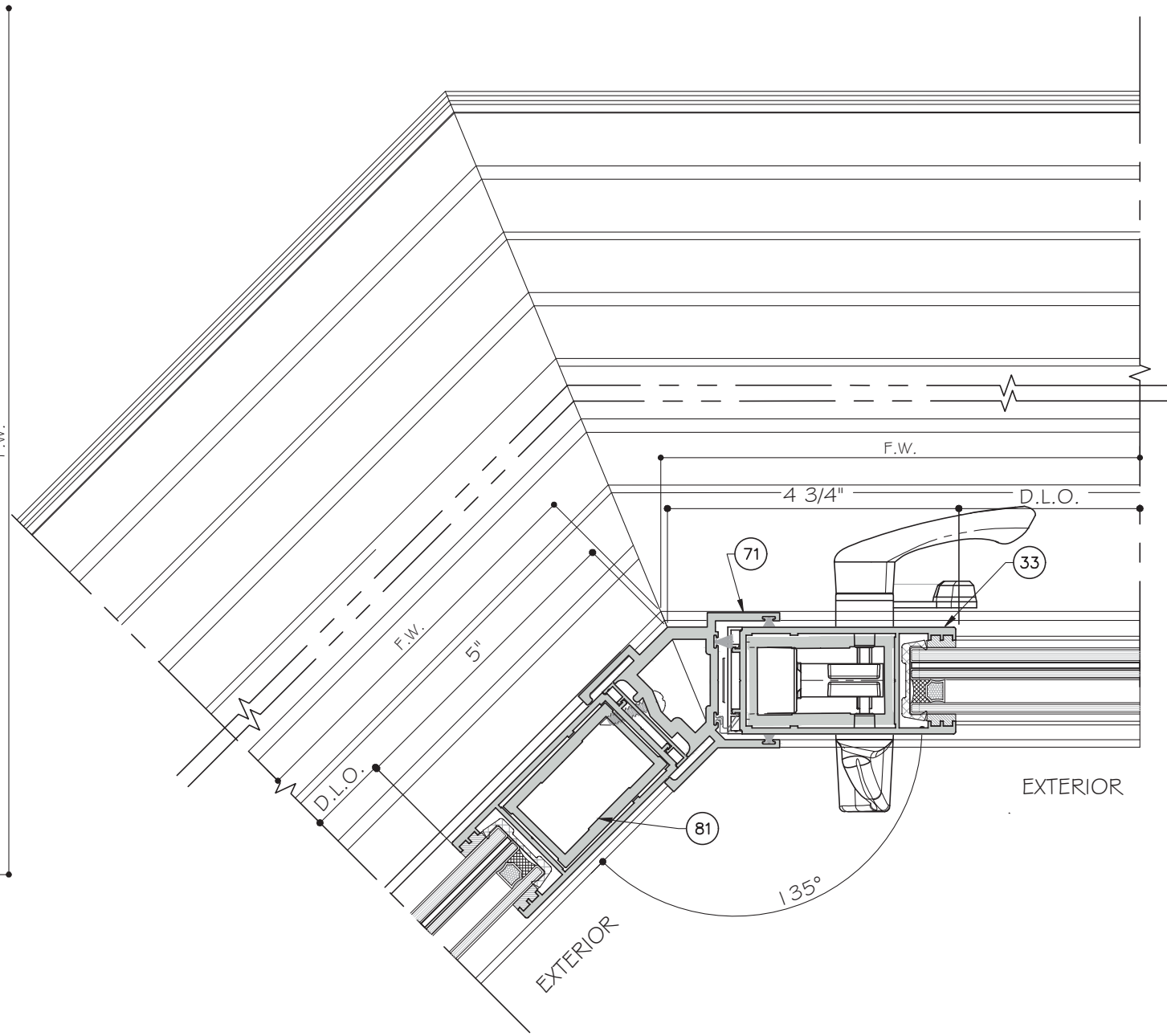
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45 DETAIL
D4.6

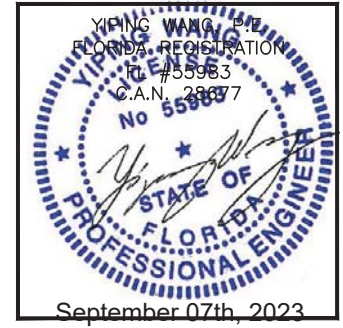


46 DETAIL
D4.6

CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

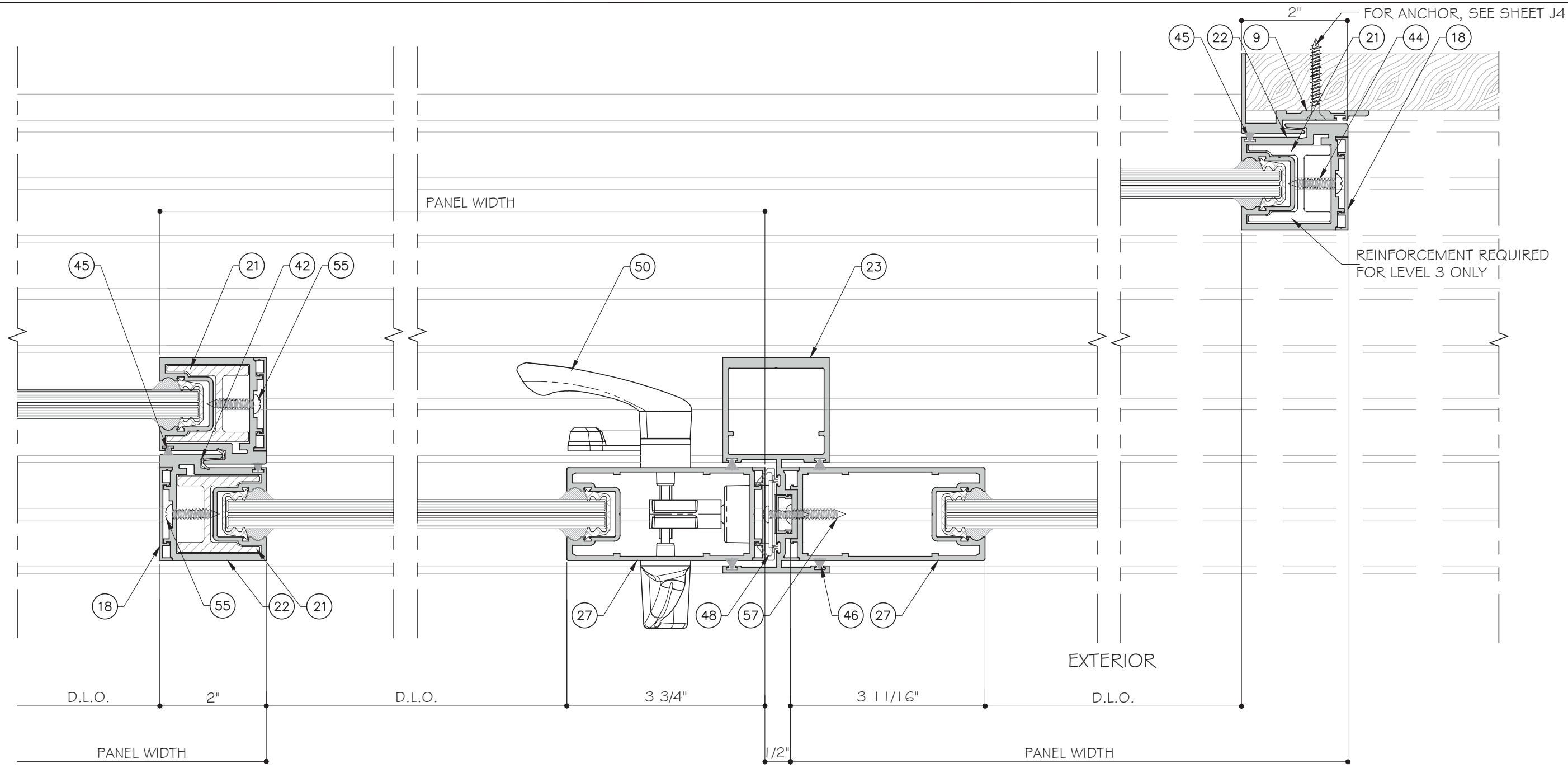
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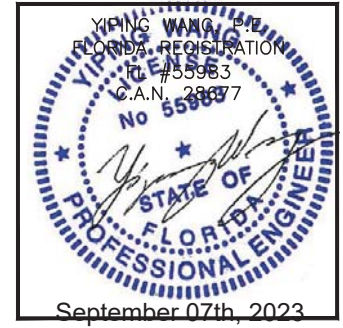
10 DETAIL
D5

11 DETAIL
D5

12 DETAIL
D5

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.

FOUR (4) TRACK DOOR DETAILS



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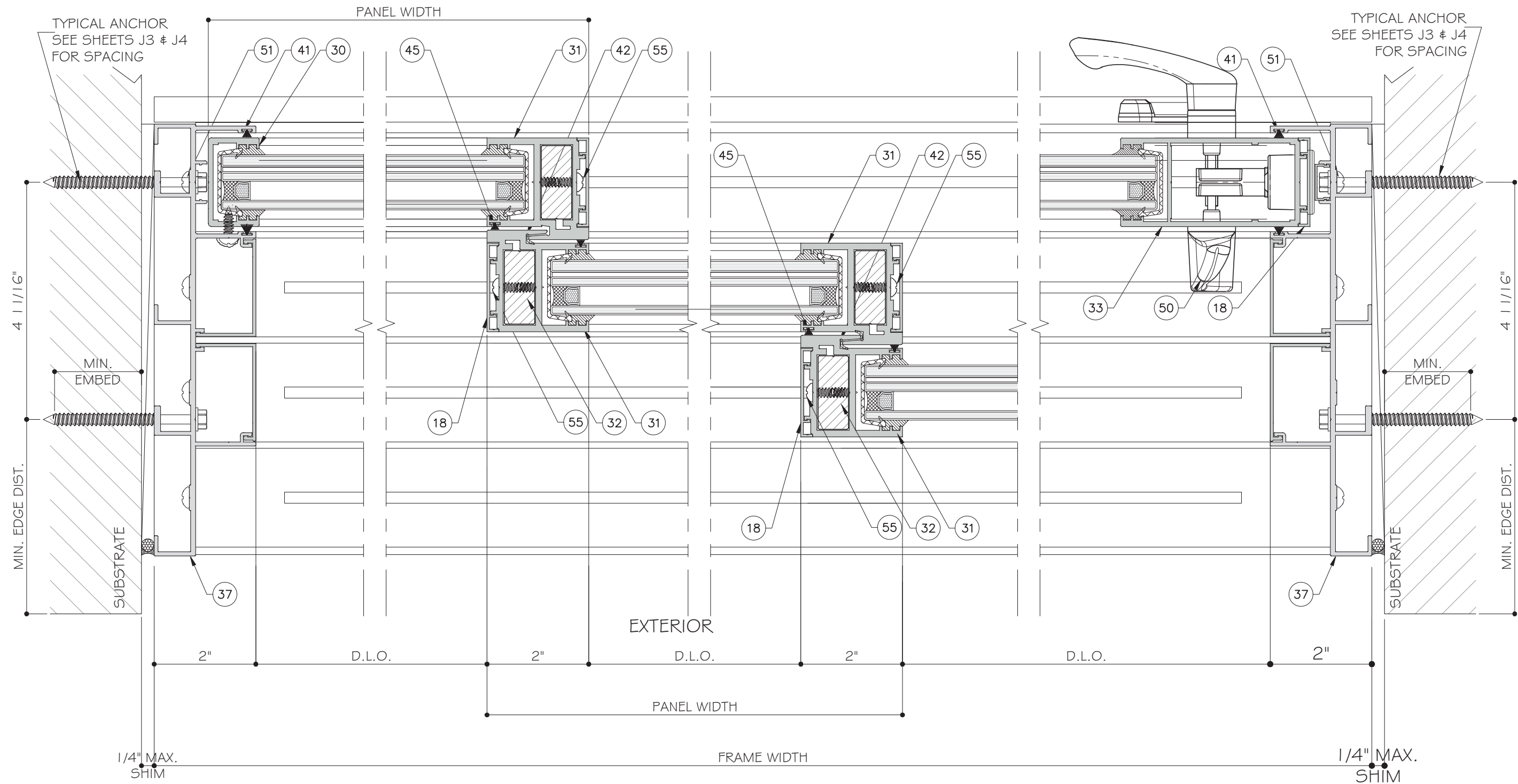
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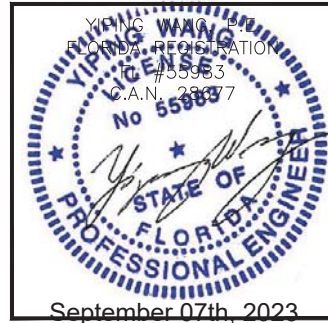
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D6

14
D6

15
D6

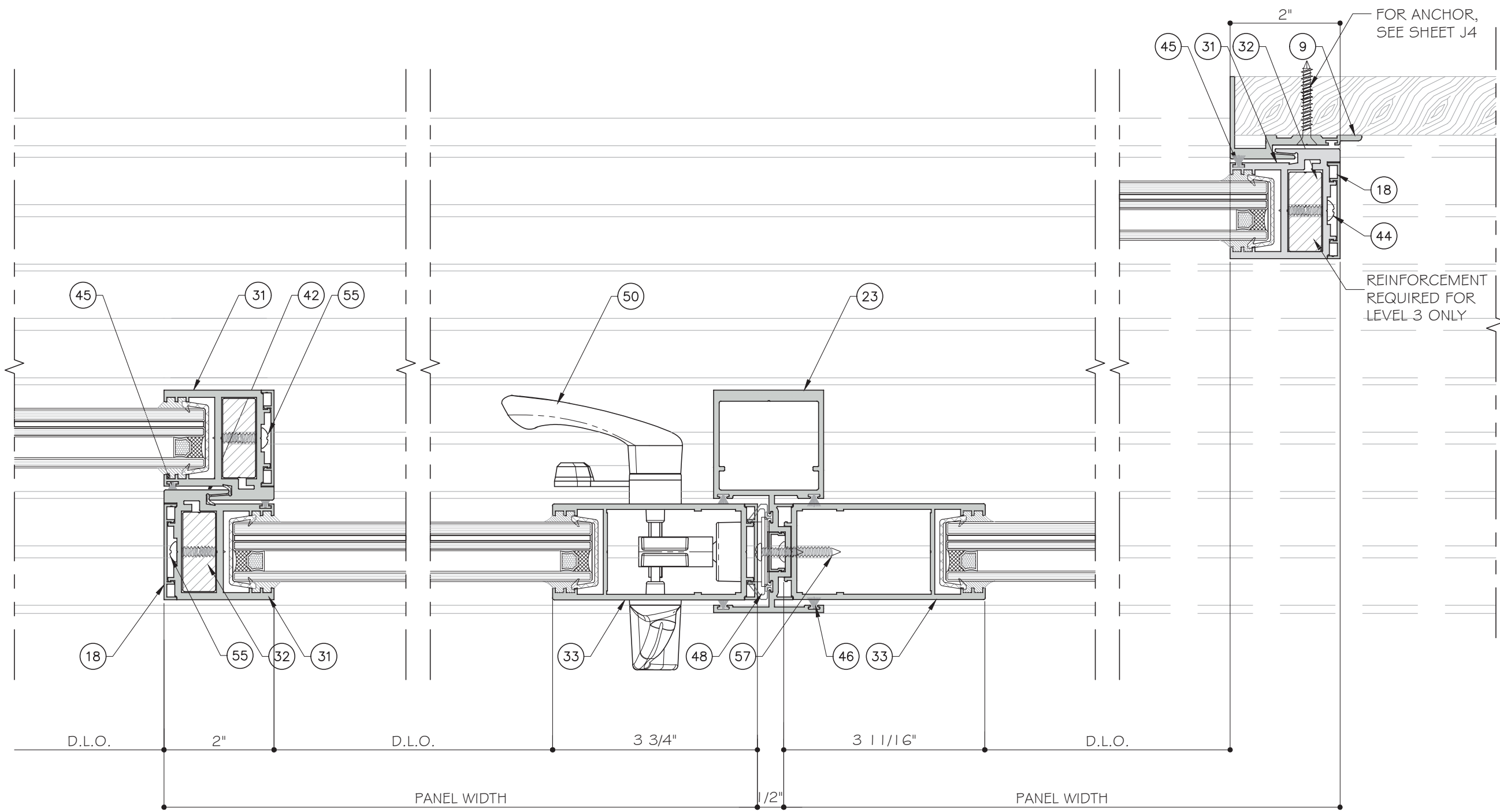
13A
D6



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D6			
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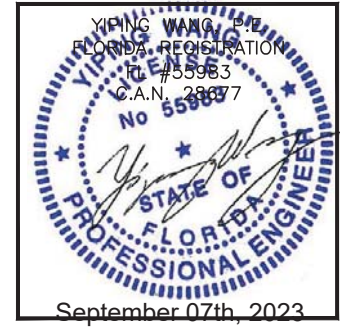
16
D7

17
D7

18
D7

FOUR (4) TRACK DOOR DETAILS

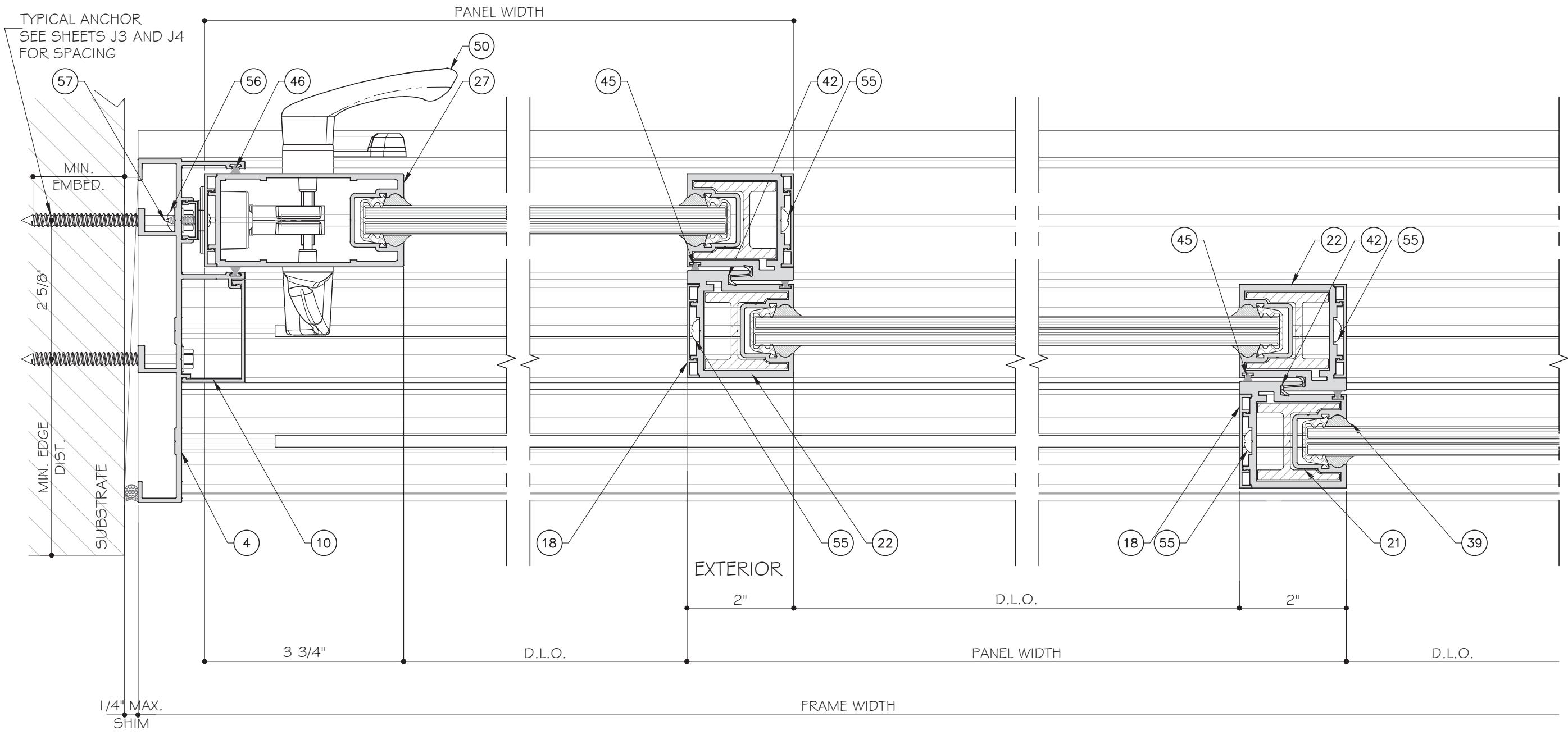
STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
 LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.



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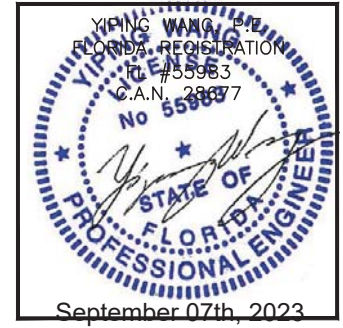
19
D8

20
D8

21
D8

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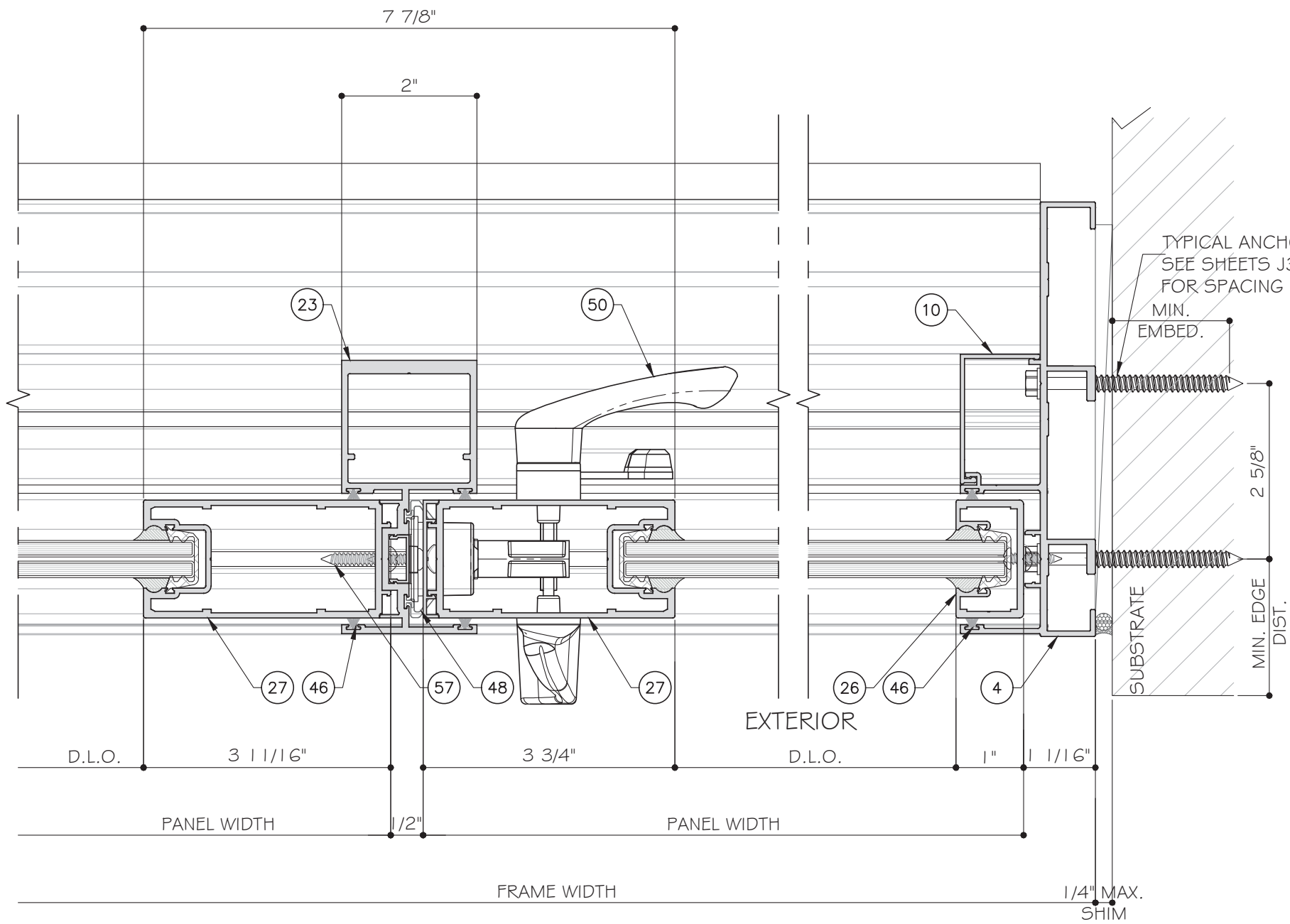
THREE (3) TRACK DOOR DETAILS



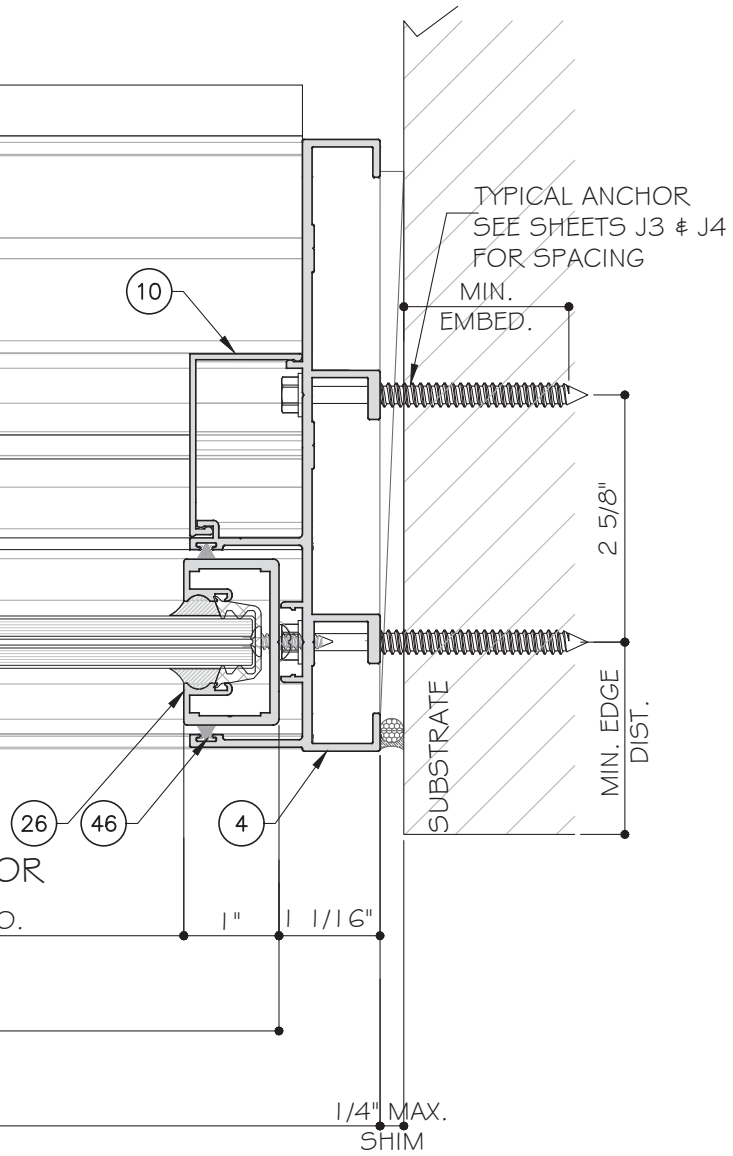
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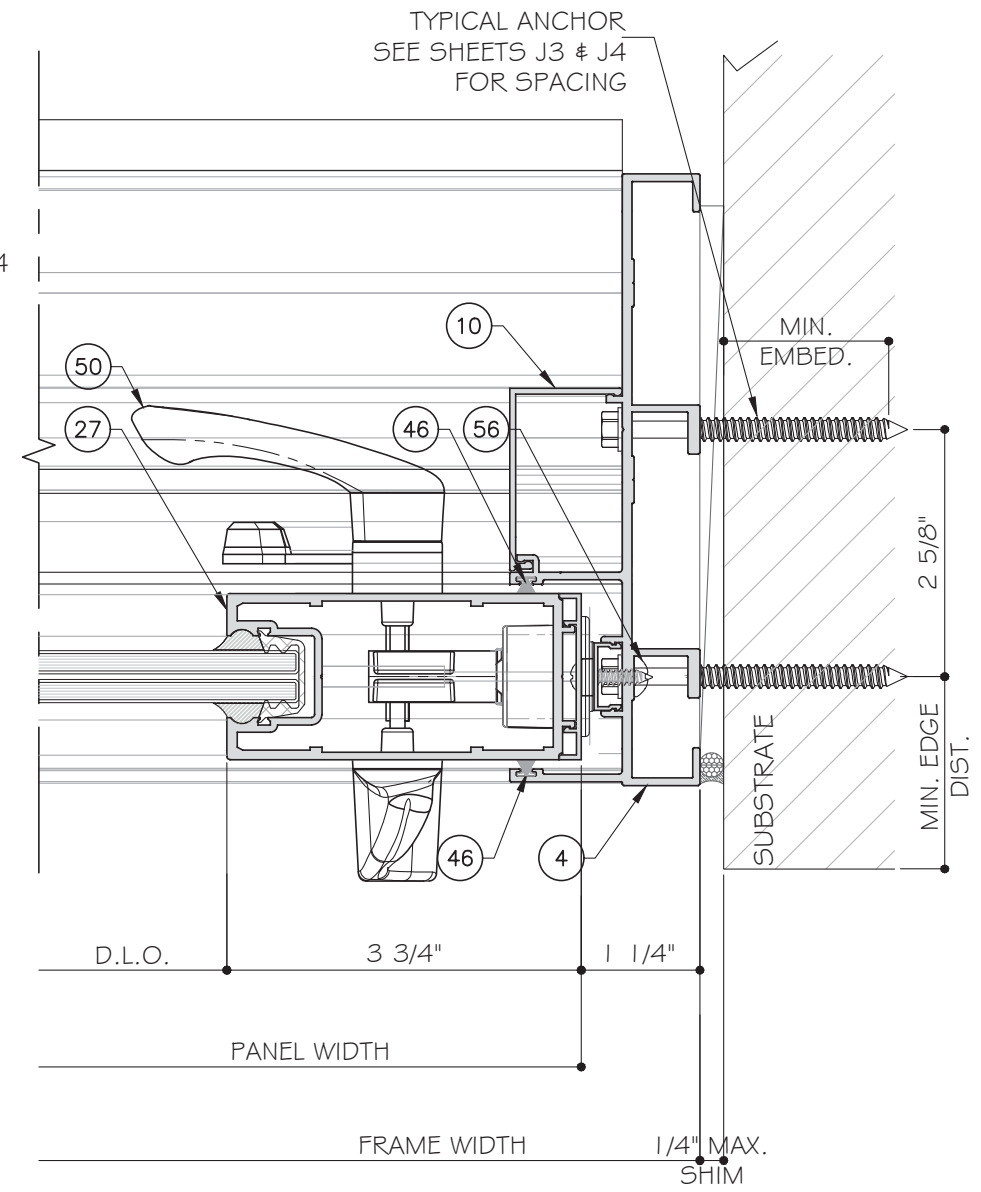
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22
D9
DETAIL



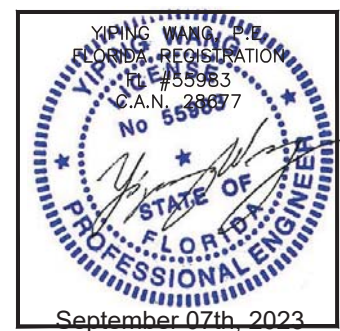
23
D9
DETAIL



24
D9
DETAIL

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

THREE (3) TRACK DOOR DETAILS



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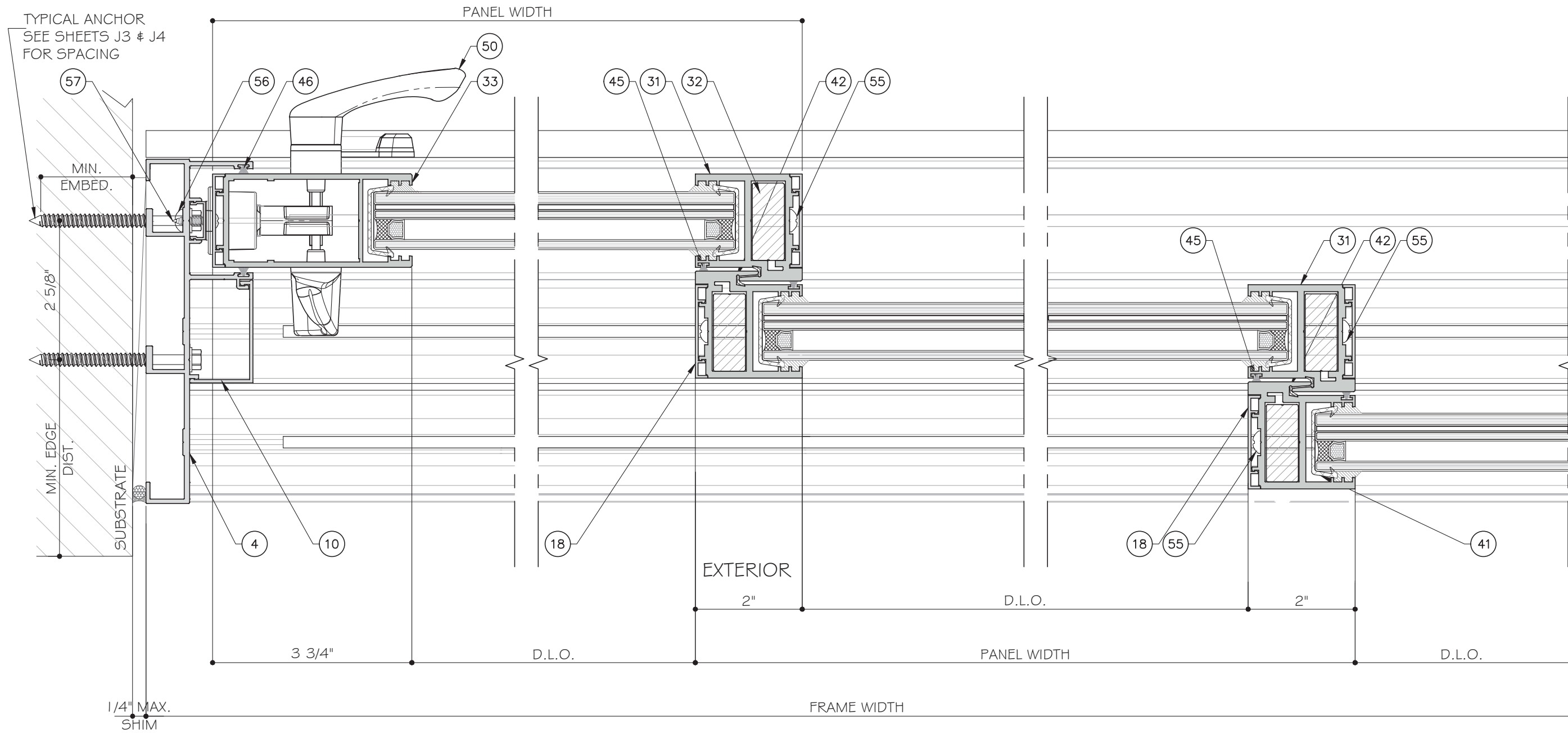
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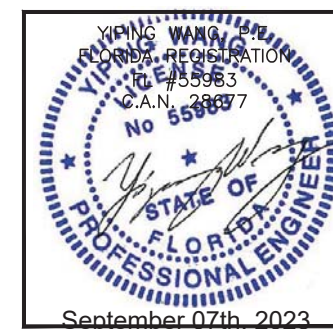
25
DIO

26
DIO

27
DIO

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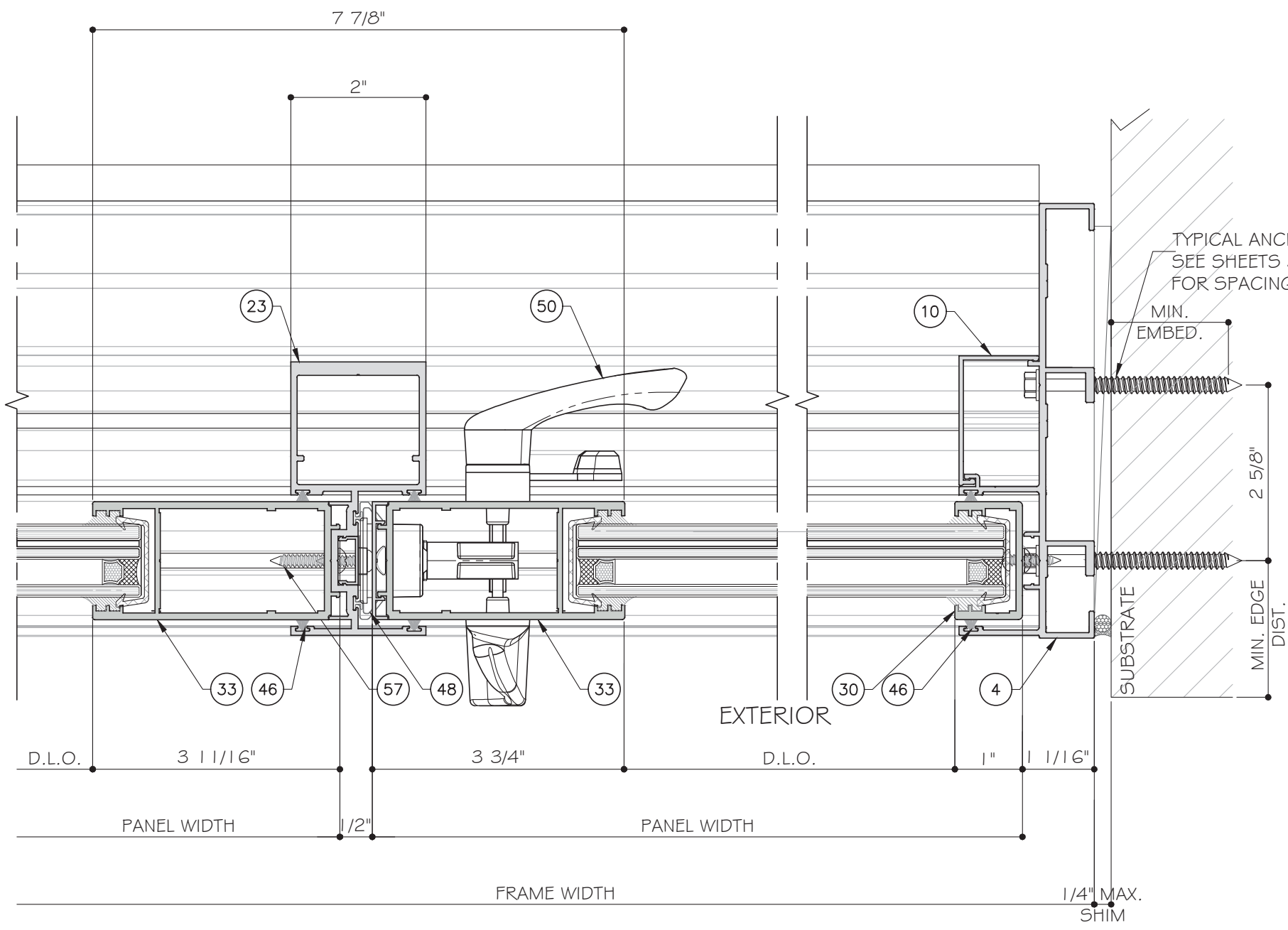
THREE (3) TRACK DOOR DETAILS



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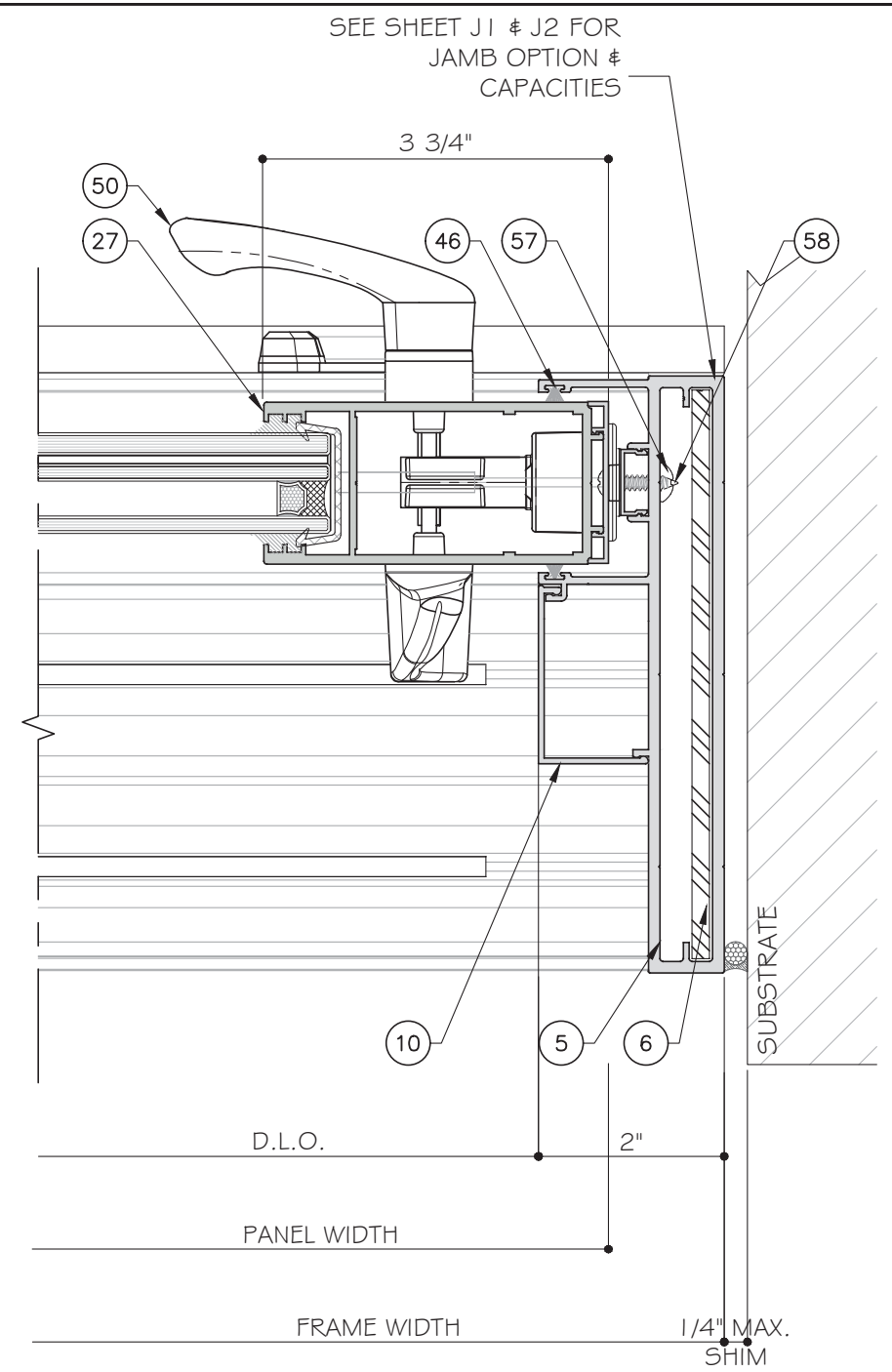


28 DETAIL
D11

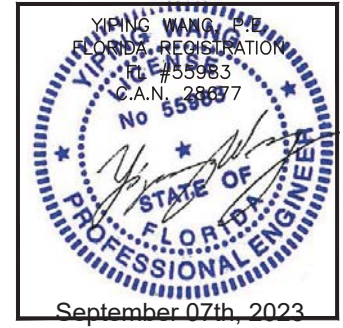
29 DETAIL
D11

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

THREE (3) TRACK DOOR DETAILS



FREESTANDING JAMB FOR 3 TRACKS OPTION



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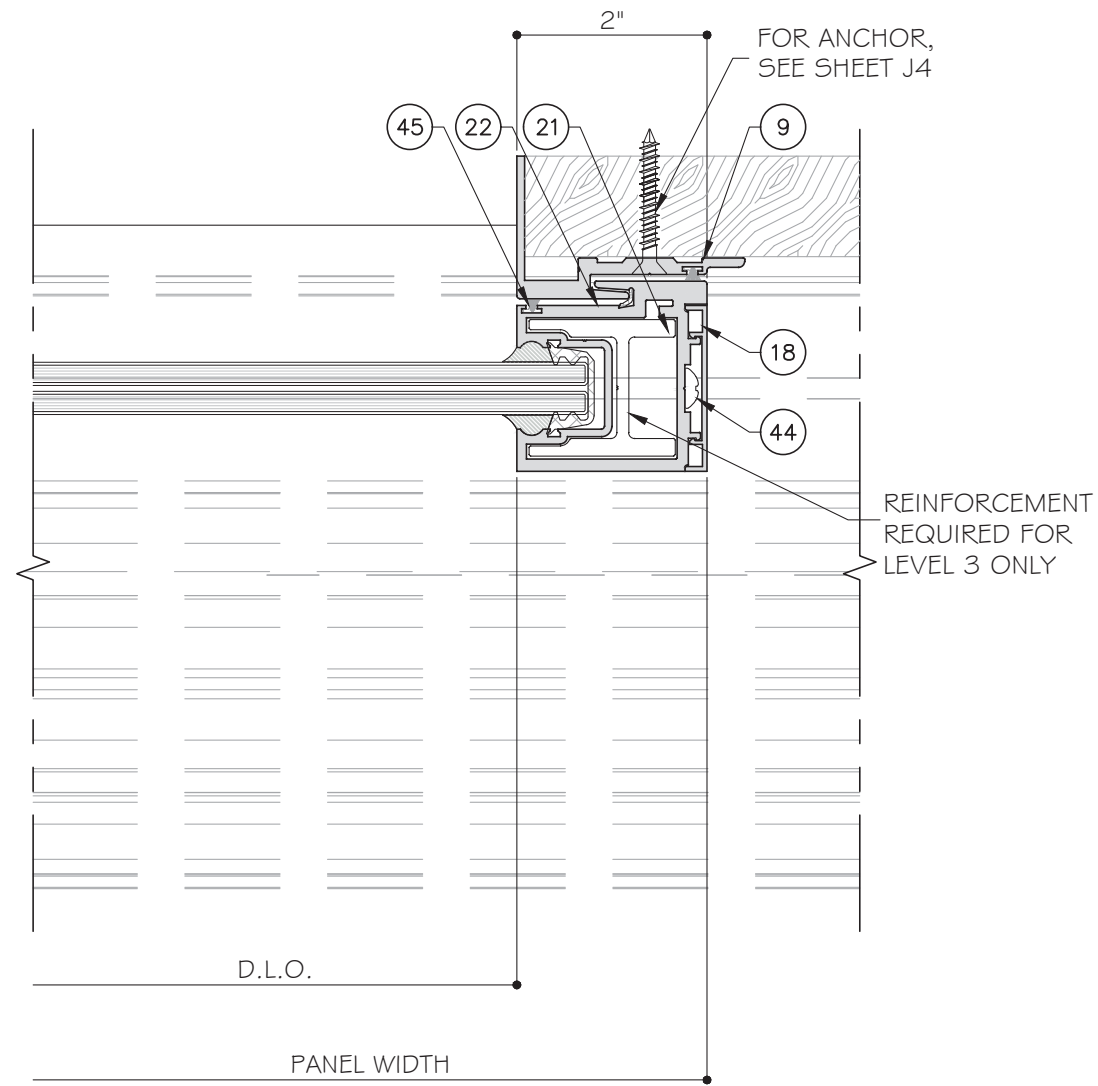
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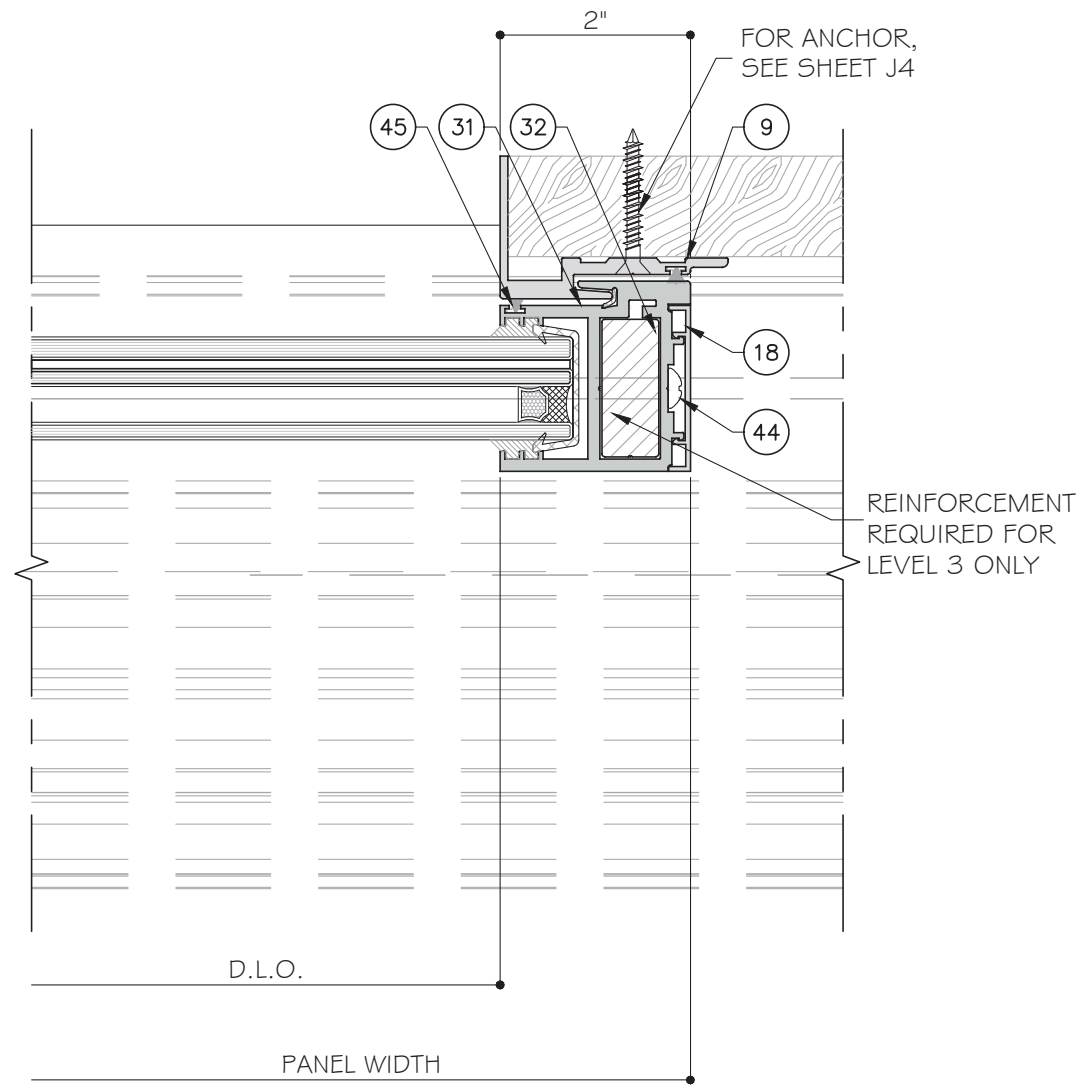
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D11

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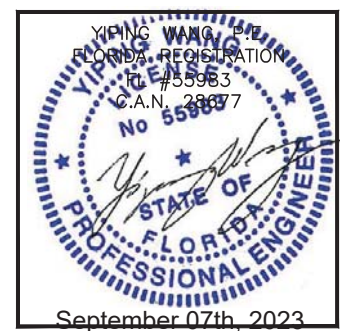


30
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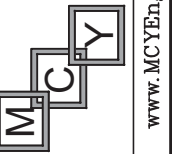
31
D12

POCKET DETAIL



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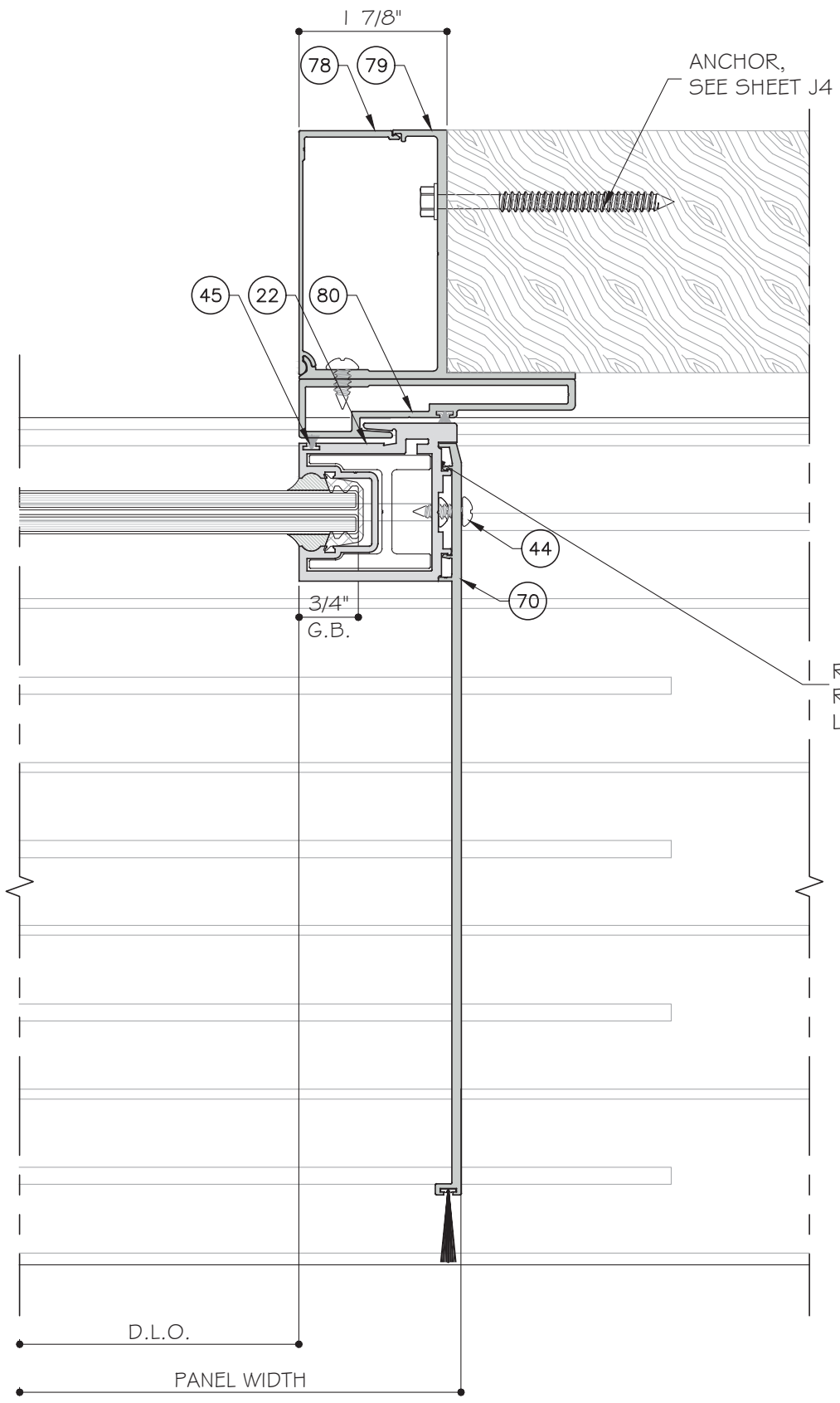
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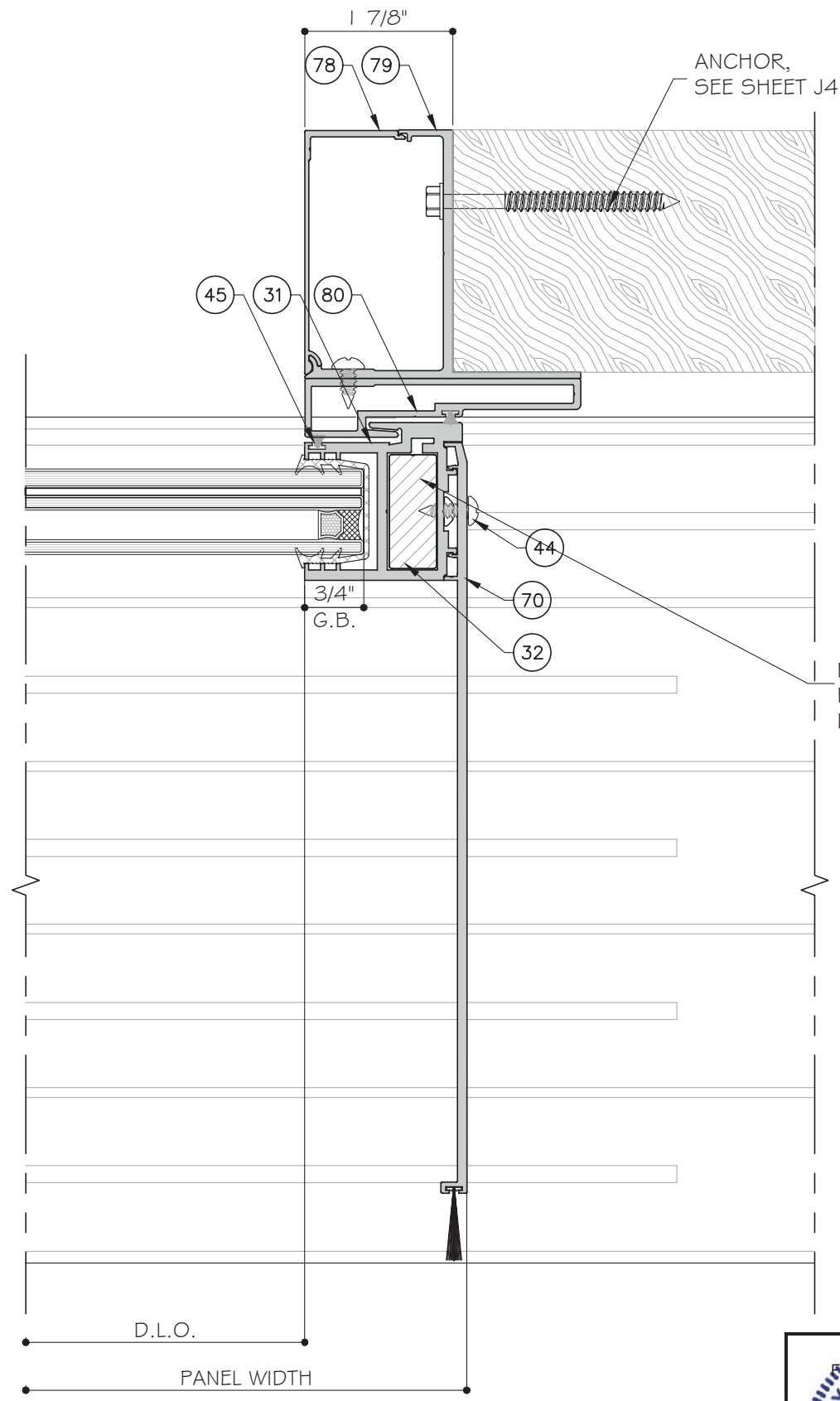
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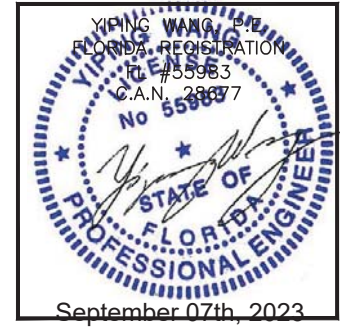


30A
D12A
DETAIL

POCKET DETAIL



31A
D12A
DETAIL



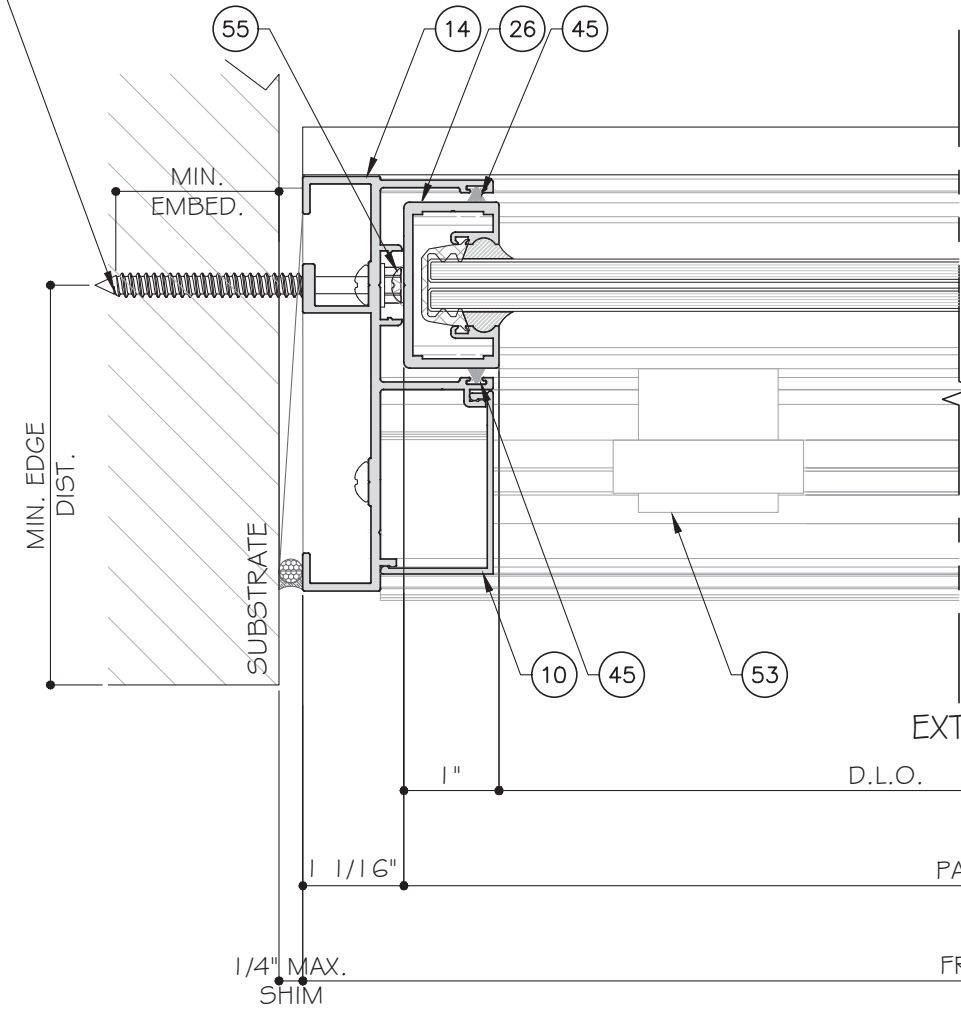
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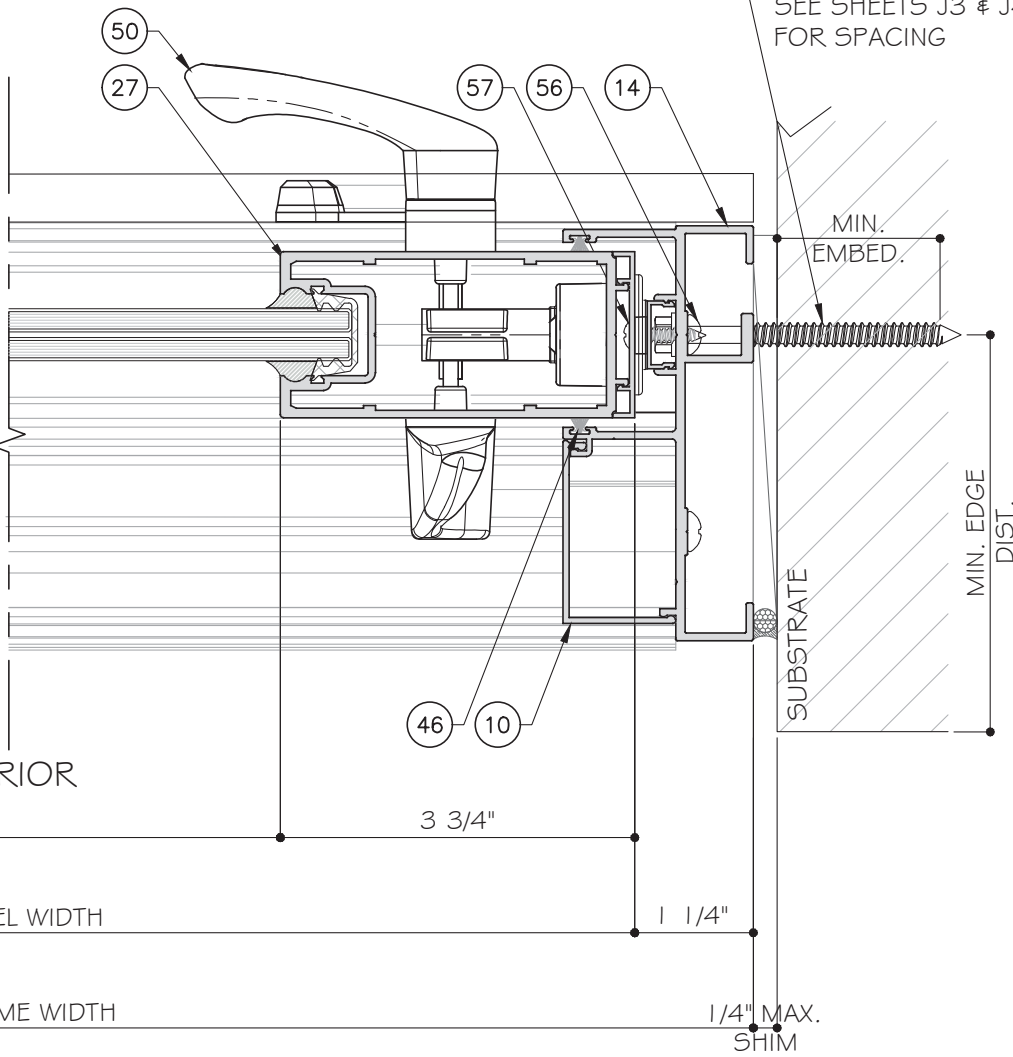
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TYPICAL ANCHOR
SEE SHEETS J3 & J4
FOR SPACING

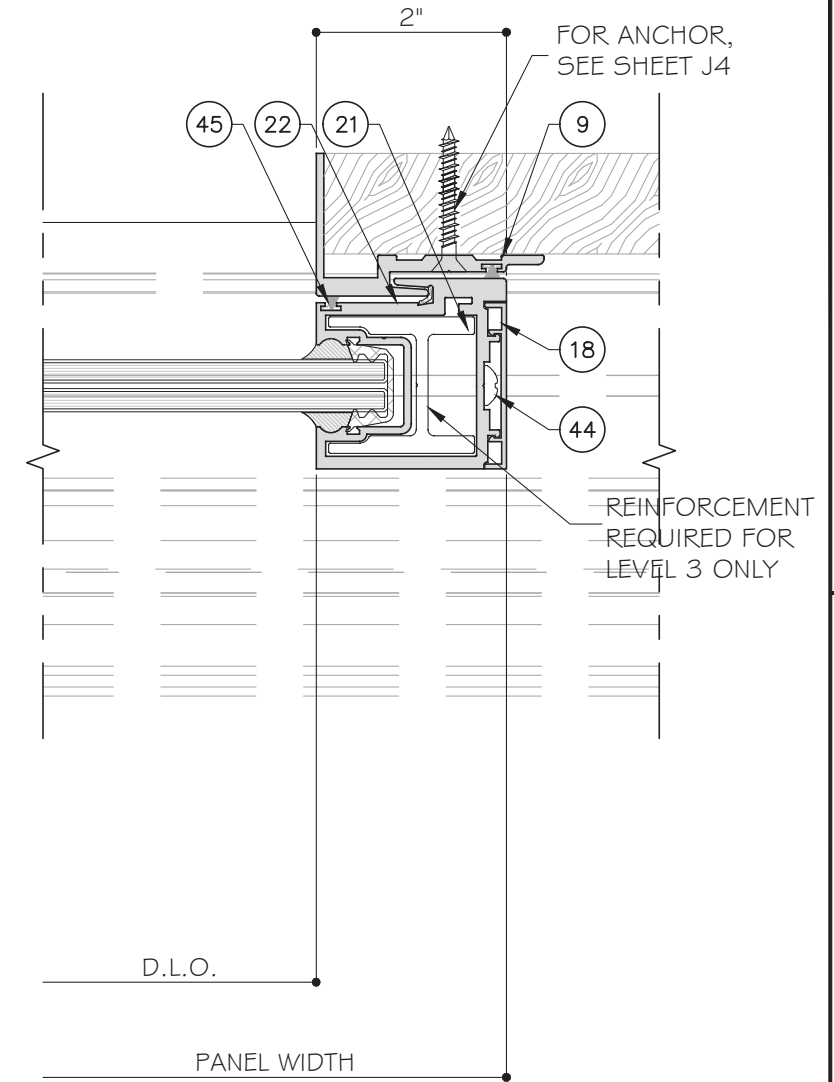


32 DETAIL
D13

TYPICAL ANCHOR
SEE SHEETS J3 & J4
FOR SPACING



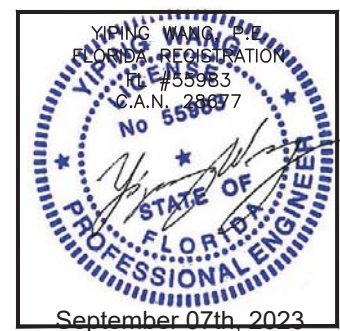
33 DETAIL
D13



34 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



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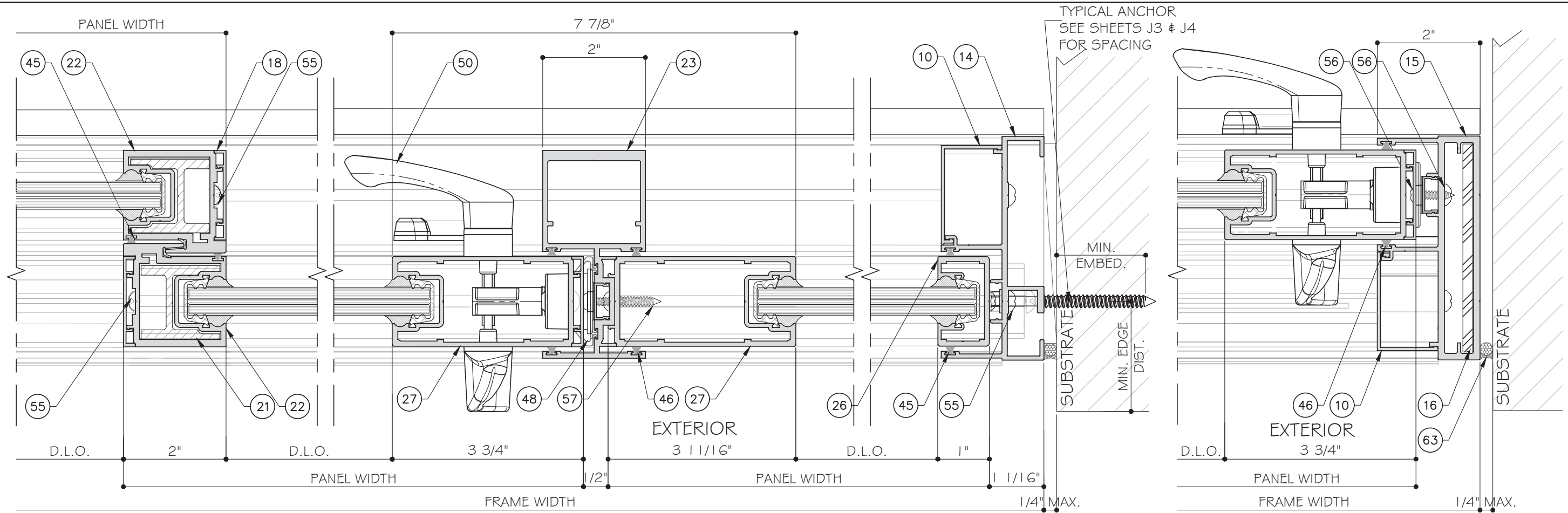
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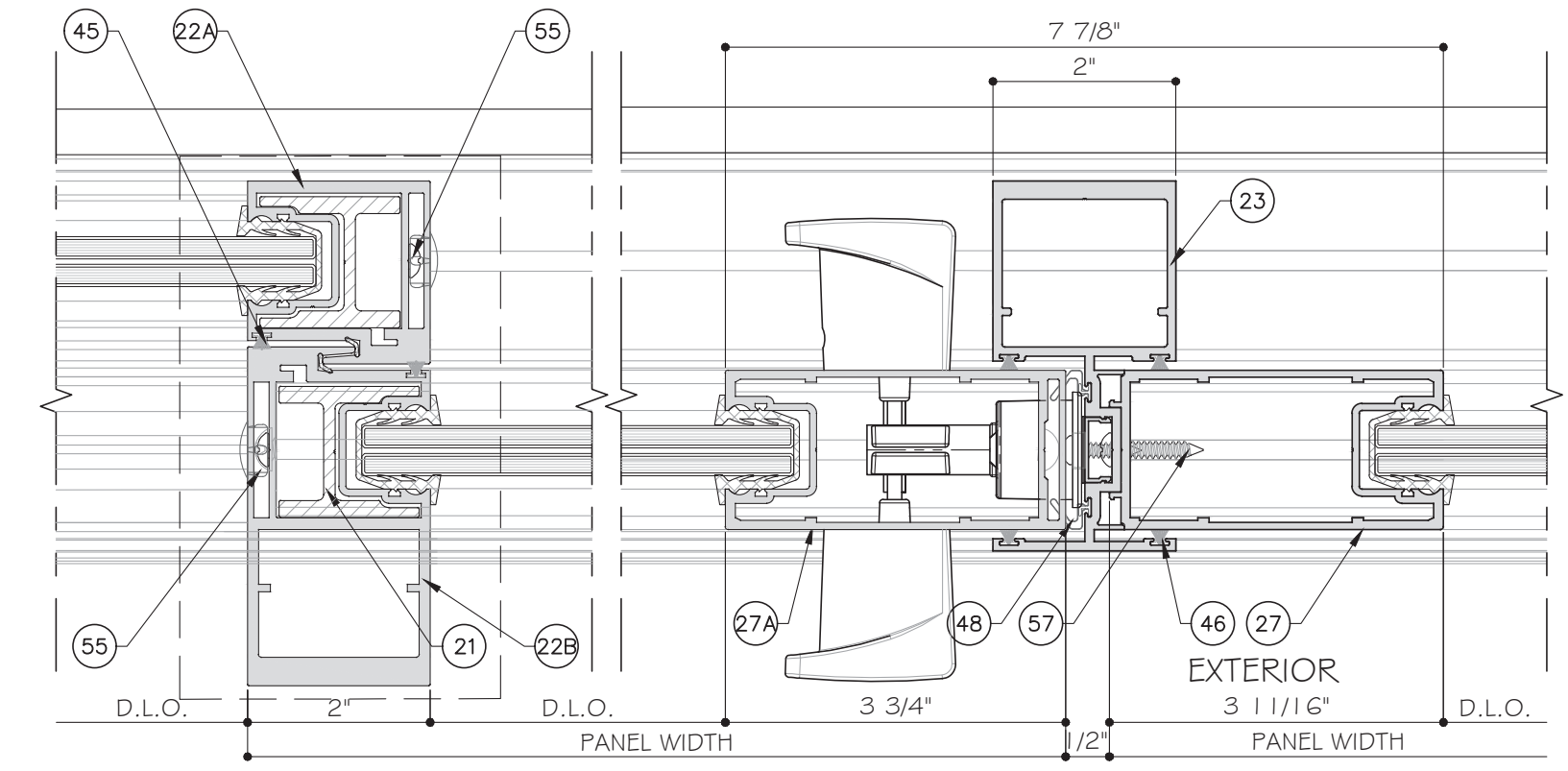


35 DETAIL
D14

36 DETAIL
D14

37 DETAIL
D14

FREESTANDING JAMB OPTION



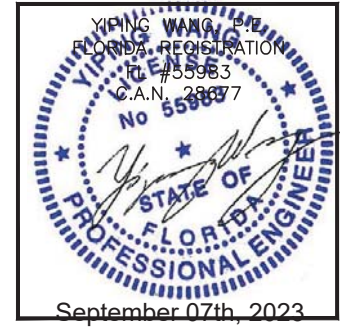
35 DETAIL
D14 OPTION

36 DETAIL
D14 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.

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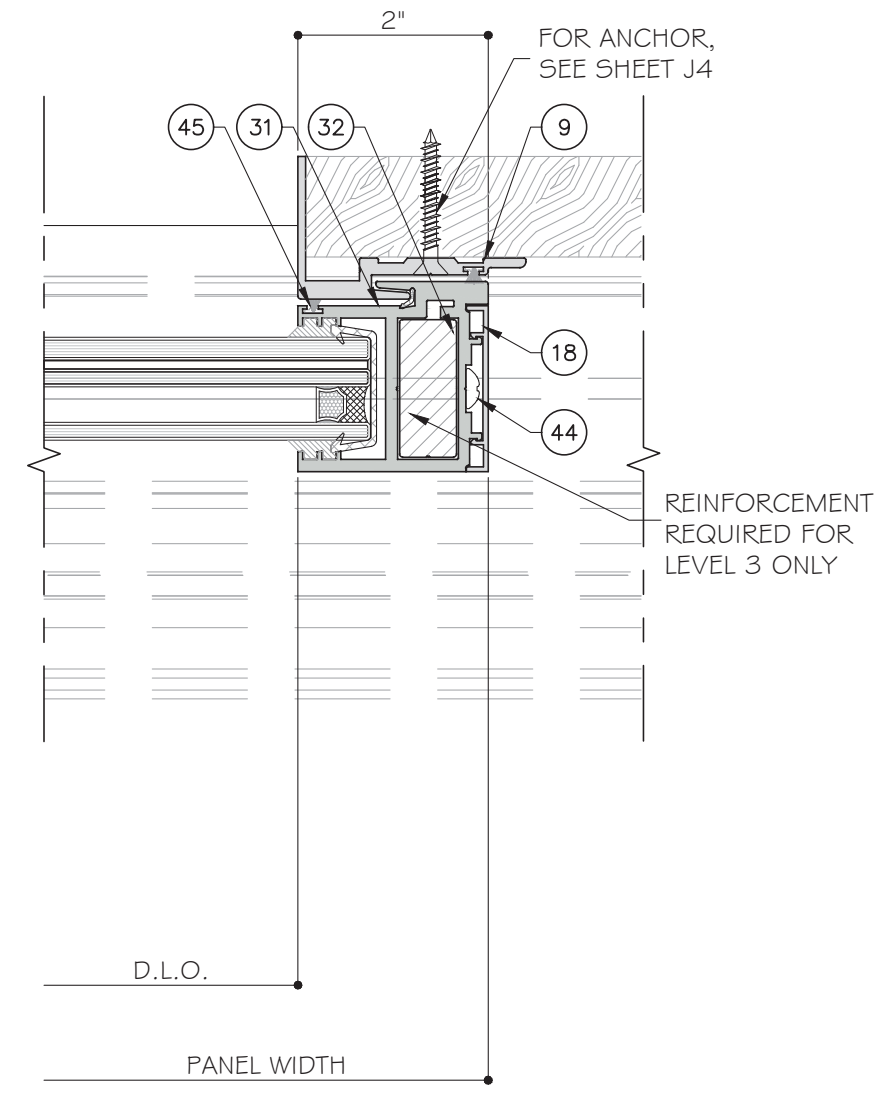
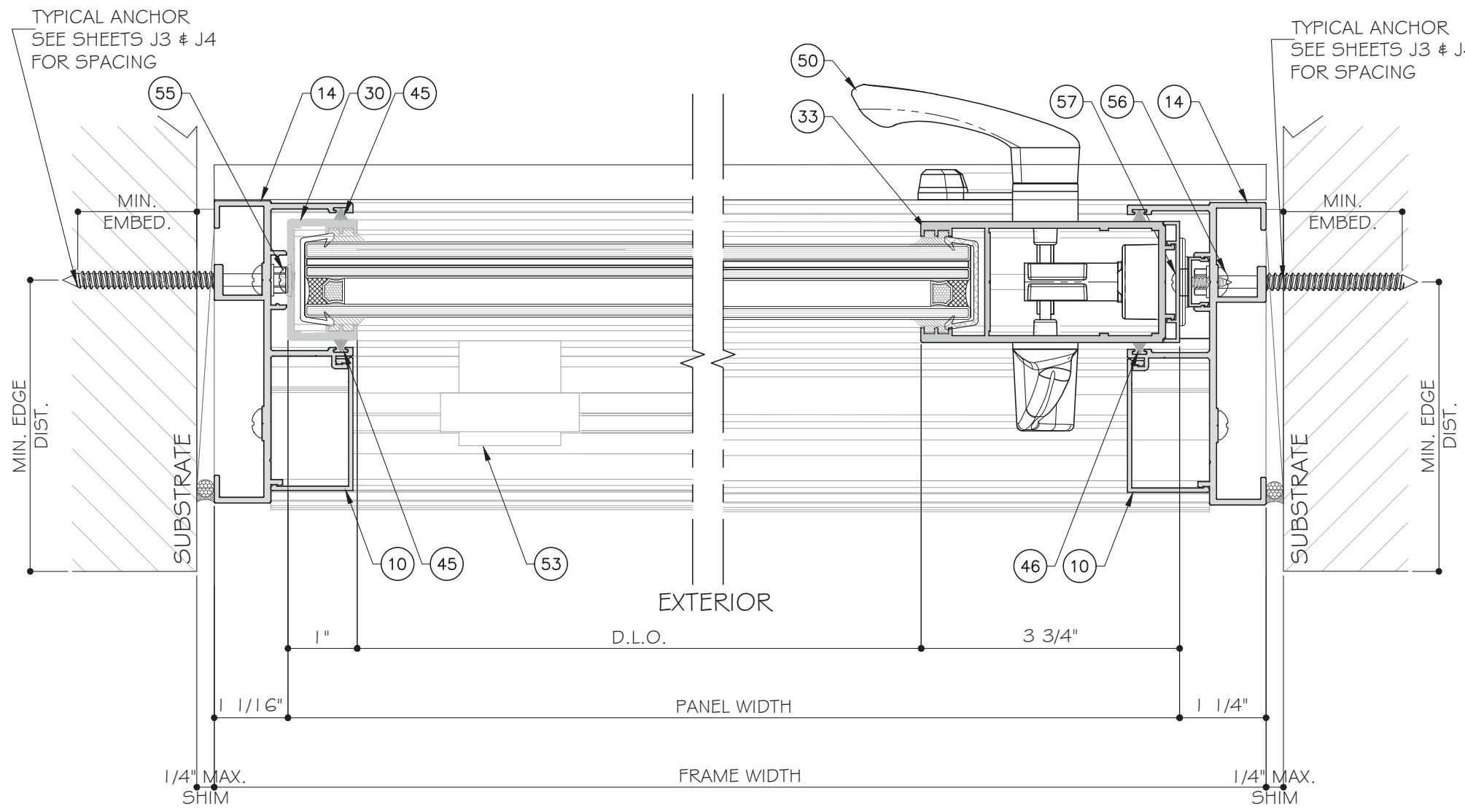
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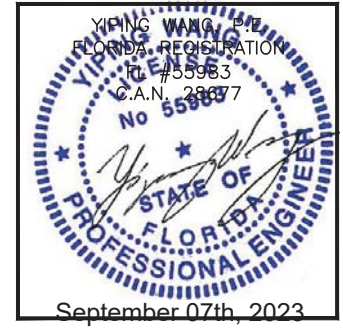
38 DETAIL
D15

39 DETAIL
D15

40 DETAIL
D15

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

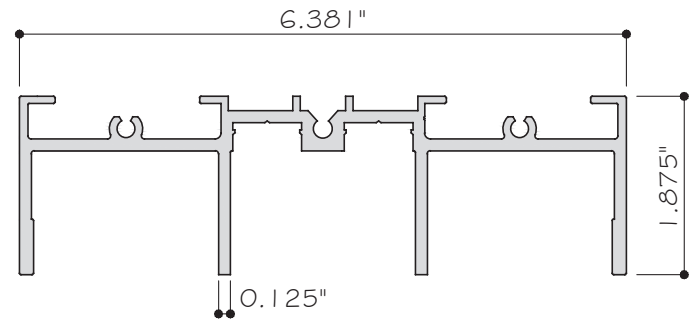
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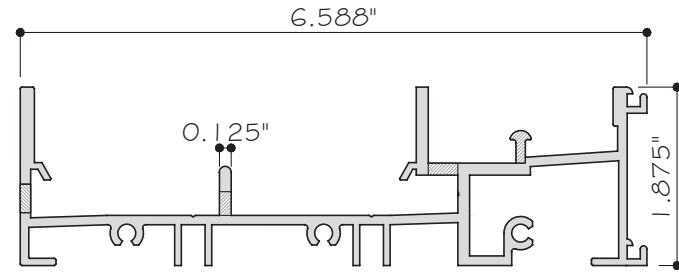
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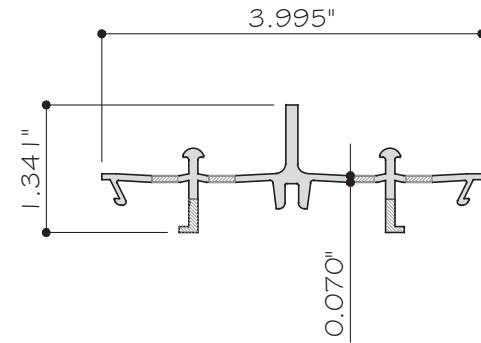
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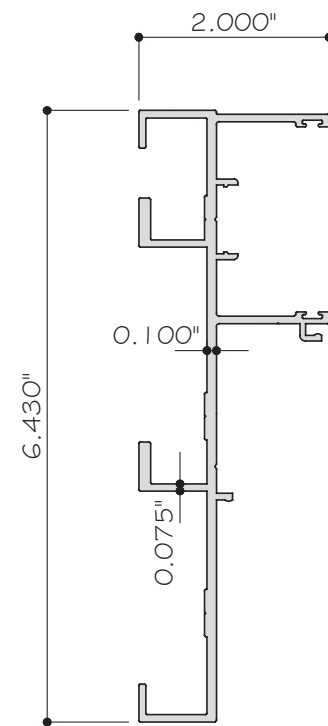
1 HEAD (3 TRACK)
ES-SGD2020-001 6063-T6



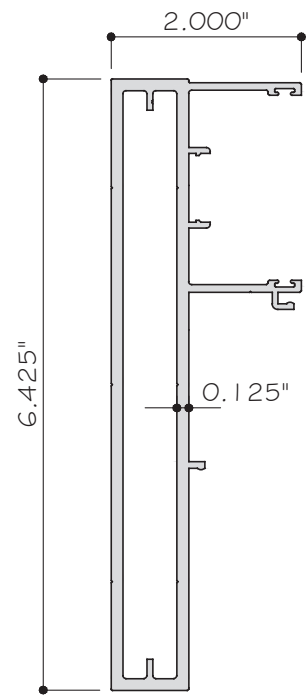
2 SILL (3 TRACK)
ES-SGD2020-002 6063-T6



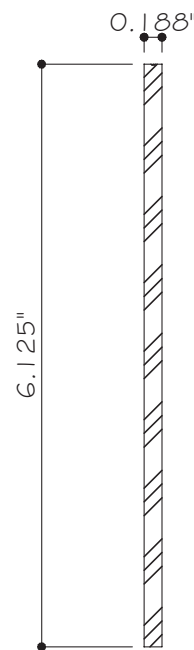
3 FRAME SILL COVER (3 TRACKS)
ES-SGD2020-003 6063-T6



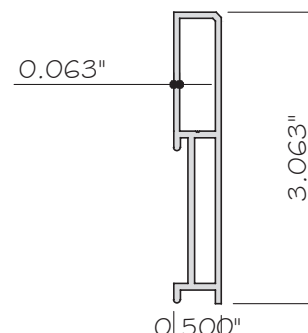
4 JAMB (3 TRACK)
ES-SGD2020-004 6063-T6



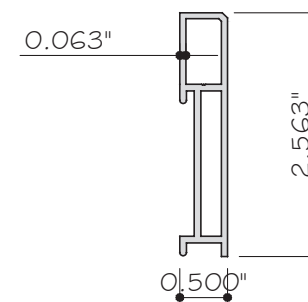
5 UNANCHORED JAMB (3 TRACK)
ES-SGD2020-005 6063-T6



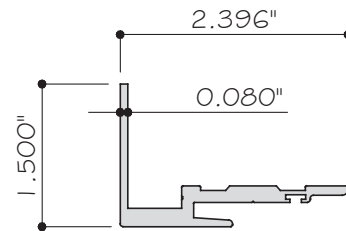
6 UNANCHORED JAMB REINF.
FOR 3 TRACK
ES-SGD2020-006 6005-T5



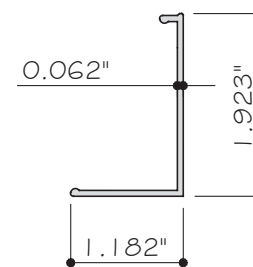
7 SILL RAISER 67PSF
ES-SGD2020-007 6063-T6



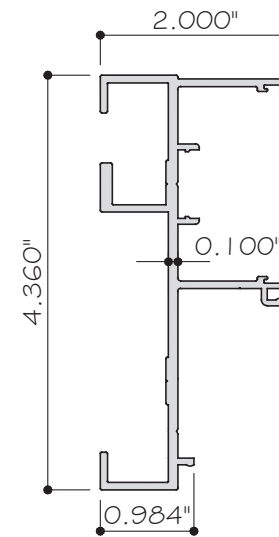
8 STANDARD SILL RAISER 53PSF
ES-SGD2020-008 6063-T6



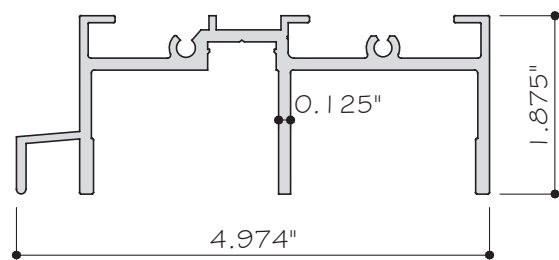
9 POCKET JAMB
ES-SGD2020-009 6063-T6



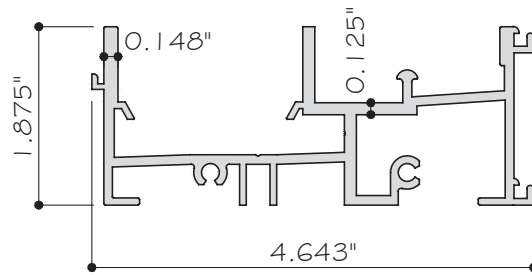
10 JAMB SCREW COVER
ES-SGD2020-010 6063-T6



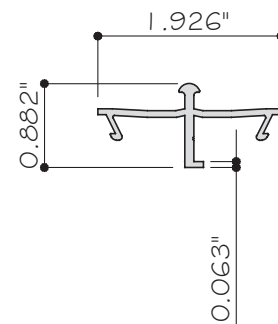
14 JAMB (2 TRACK)
ES-SGD2020-014 6063-T6



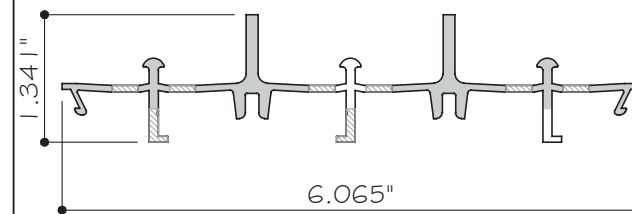
11 HEAD (2 TRACK)
ES-SGD2020-011 6063-T6



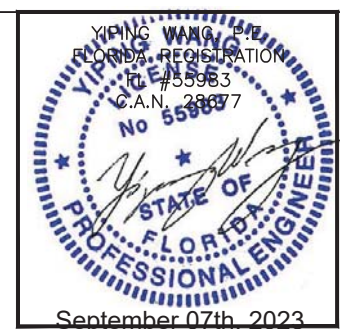
12 SILL (2 TRACK)
ES-SGD2020-012 6063-T6



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



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

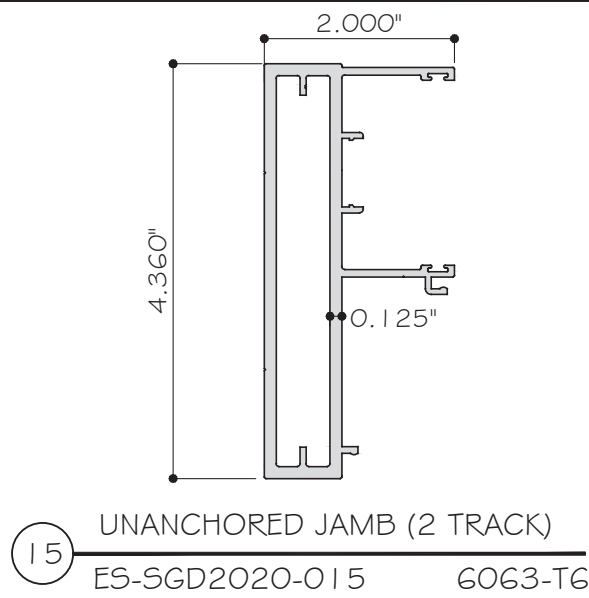


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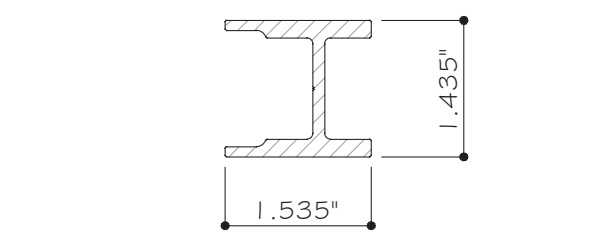
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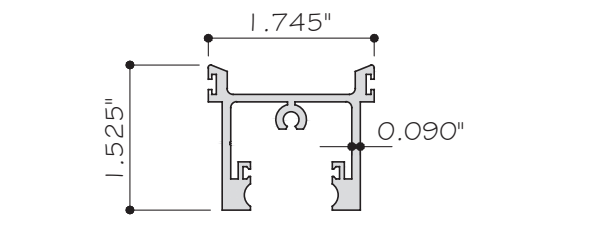
PARTS



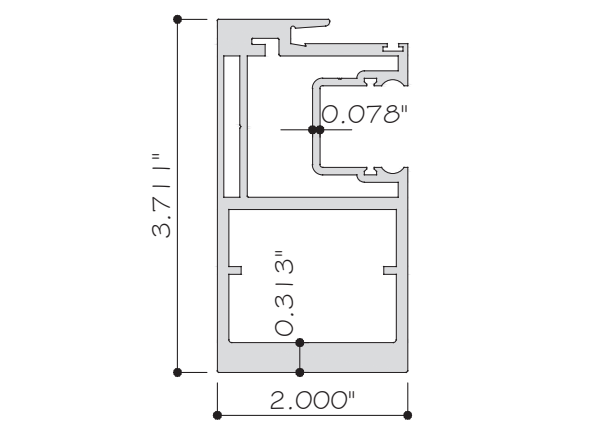
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ES-SGD2020-015 6063-T6



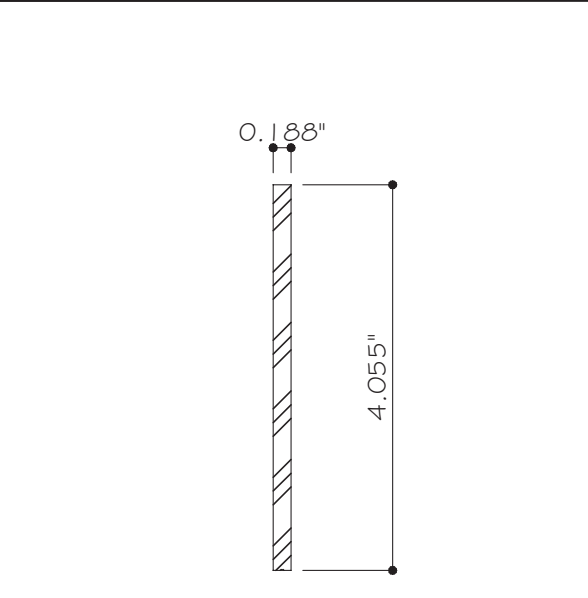
21 REINF. FOR INTERLOCK
ES-SGD2020-021 6005-T5



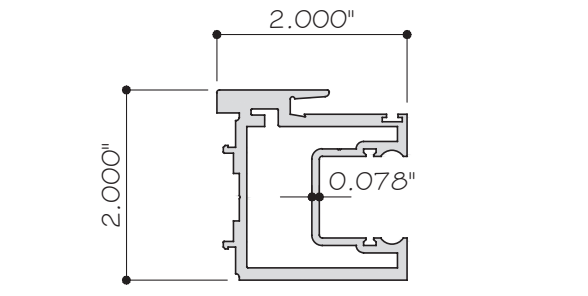
24 TOP RAIL FOR LAMINATED GLASS
ES-SGD2020-024 6063-T6



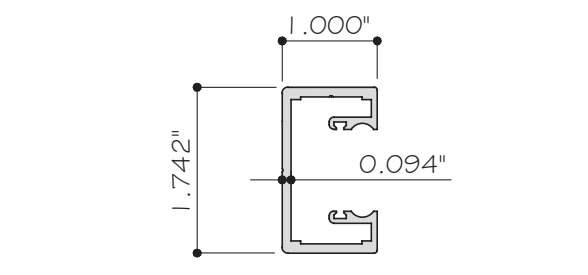
22B INTERLOCK HEAVY FOR LAMINATED
ES-SGD2020-085 6005-T5



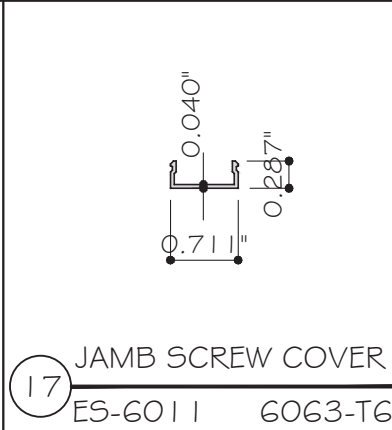
16 UN-ANCHORED JAMB REINF. FOR 2 TRACK
ES-SGD2020-016 6063-T6



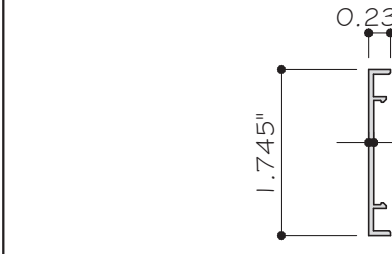
22 INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-022 6063-T6



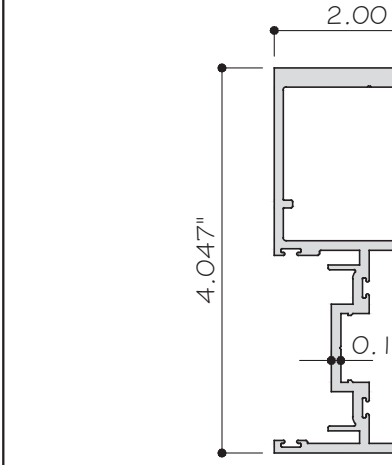
26 FIXED STILE FOR LAMINATED GLASS
ES-SGD2020-026 6063-T6



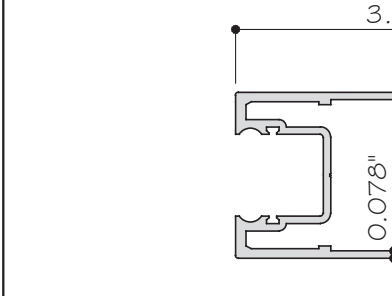
17 JAMB SCREW COVER
ES-6011 6063-T6



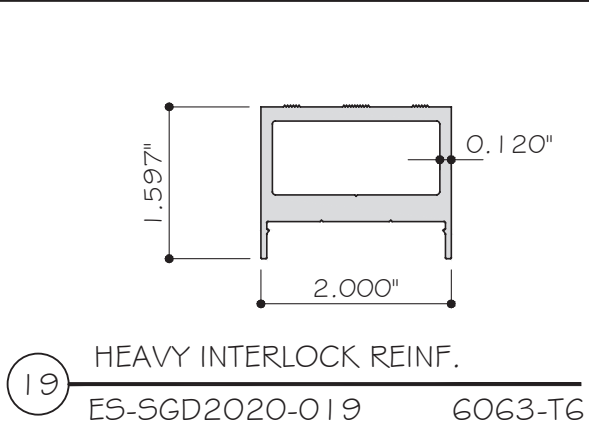
18 INTERLOCK AND LOCKSTILE SCREW COVER
ES-SGD2020-018 6063-T6



23 ASTRAGAL
ES-SGD2020-023 6063-T6



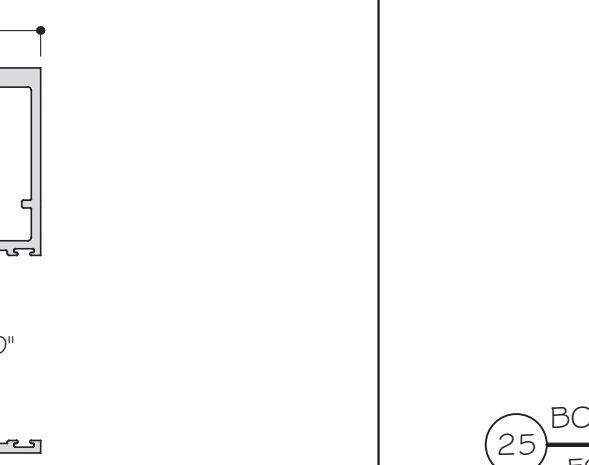
27 LOCK STILE FOR LAMINATED GLASS
ES-SGD2020-027 6063-T6



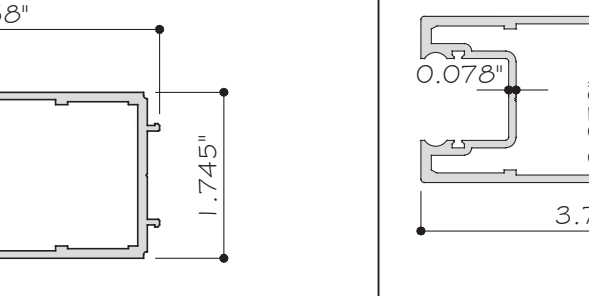
19 HEAVY INTERLOCK REINF.
ES-SGD2020-019 6063-T6



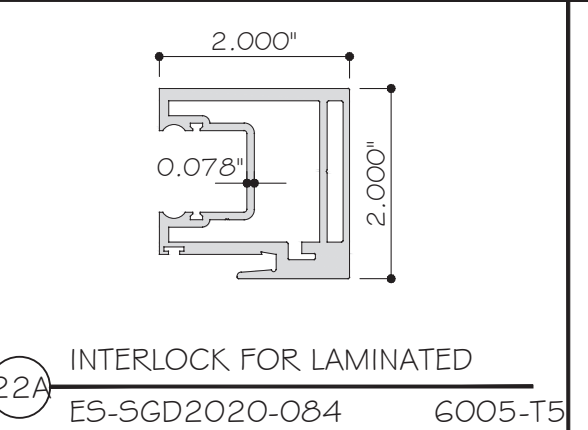
20 HEAVY INTERLOCK REINF. COVER
ES-SGD2020-020 6063-T6



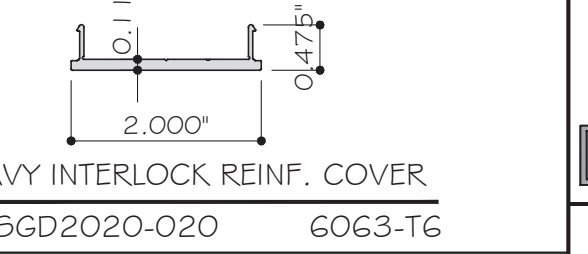
25 BOTTOM RAIL FOR LAMINATED GLASS
ES-SGD2020-025 6063-T6



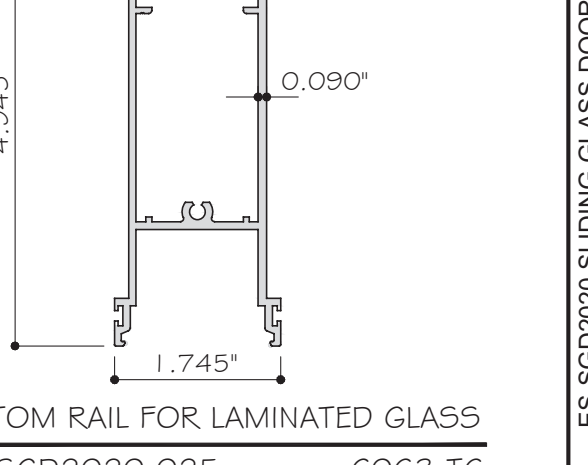
27A LOCKSTILE FOR LAMINATED
ES-SGD2020-088 6063-T6



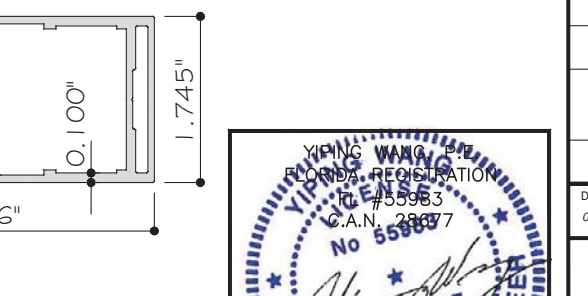
22A INTERLOCK FOR LAMINATED
ES-SGD2020-084 6005-T5



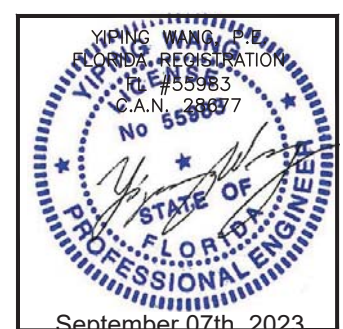
20 HEAVY INTERLOCK REINF. COVER
ES-SGD2020-020 6063-T6



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



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

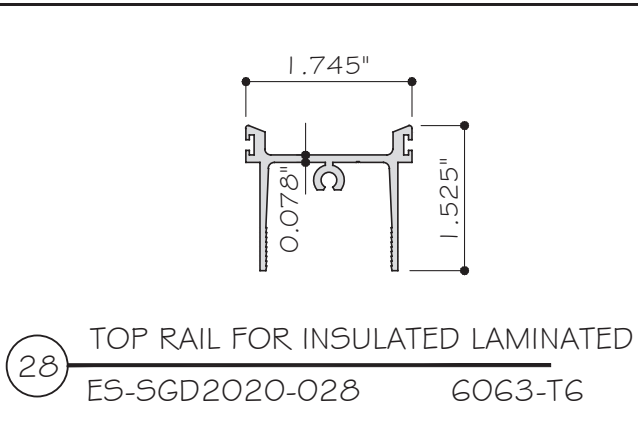


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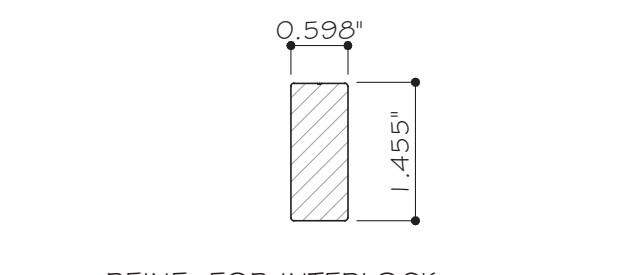
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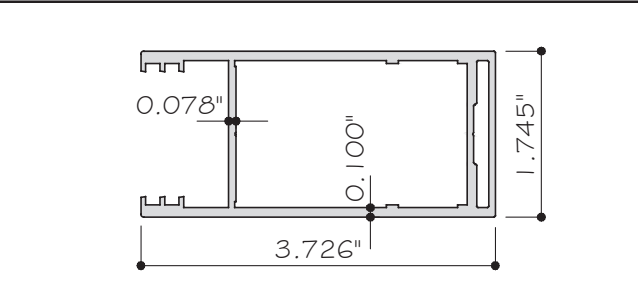
Drawn Date: 09.05.2023
Scale: _____
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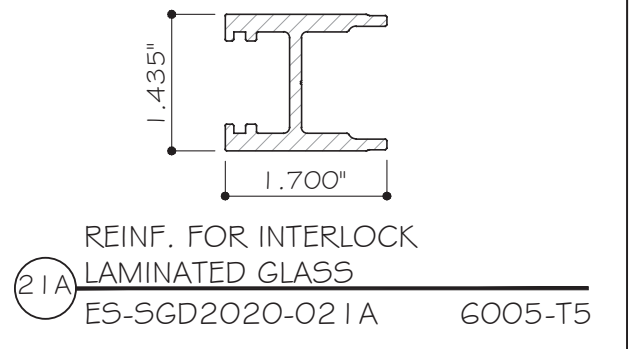
28 TOP RAIL FOR INSULATED LAMINATED
ES-SGD2020-028 6063-T6



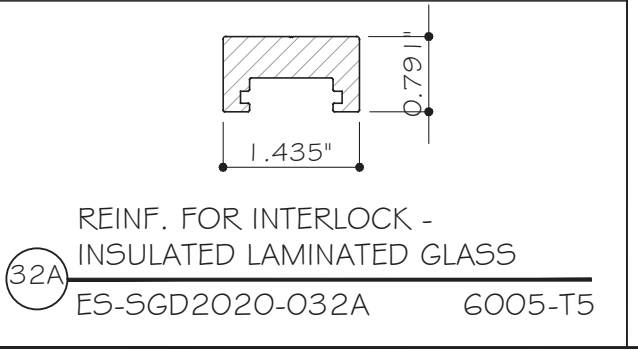
32 REINF. FOR INTERLOCK -
INSULATED LAMINATED GLASS
ES-SGD2020-032 6005-T5



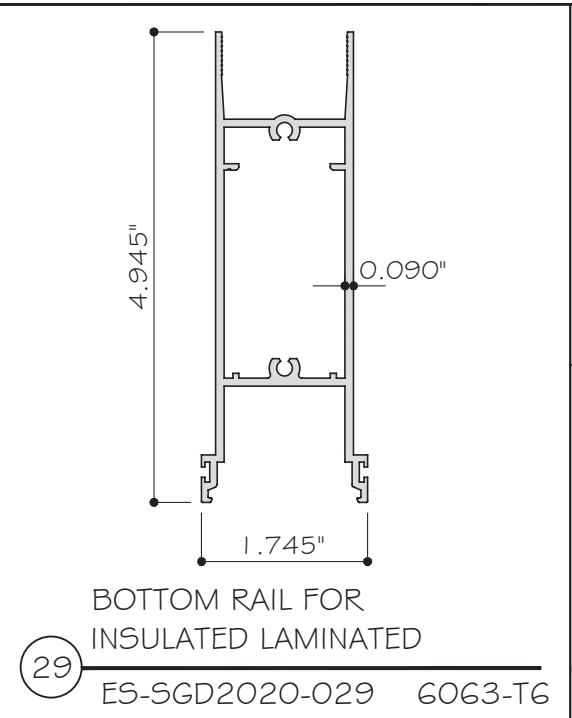
33A LOCKSTILE FOR INSULATE LAMINATED
ES-SGD2020-089 6063-T6



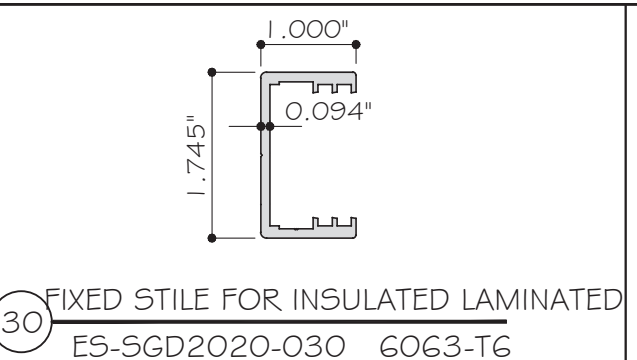
21A REINF. FOR INTERLOCK
LAMINATED GLASS
ES-SGD2020-021A 6005-T5



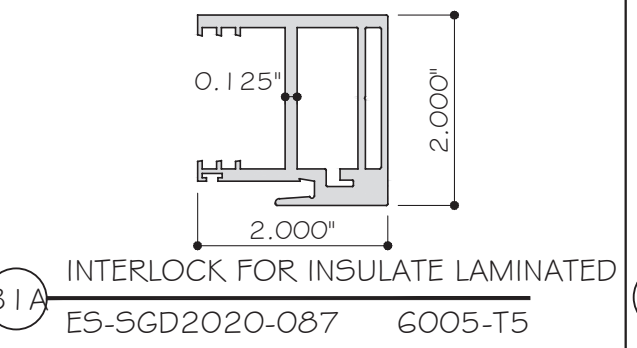
32A REINF. FOR INTERLOCK -
INSULATED LAMINATED GLASS
ES-SGD2020-032A 6005-T5



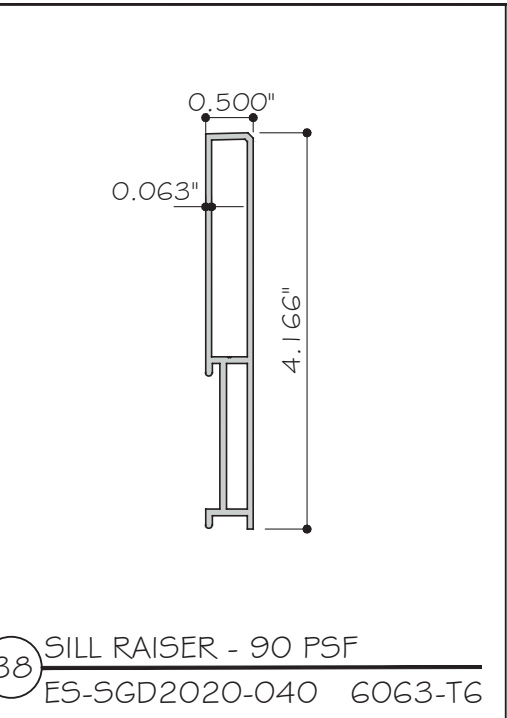
29 BOTTOM RAIL FOR
INSULATED LAMINATED
ES-SGD2020-029 6063-T6



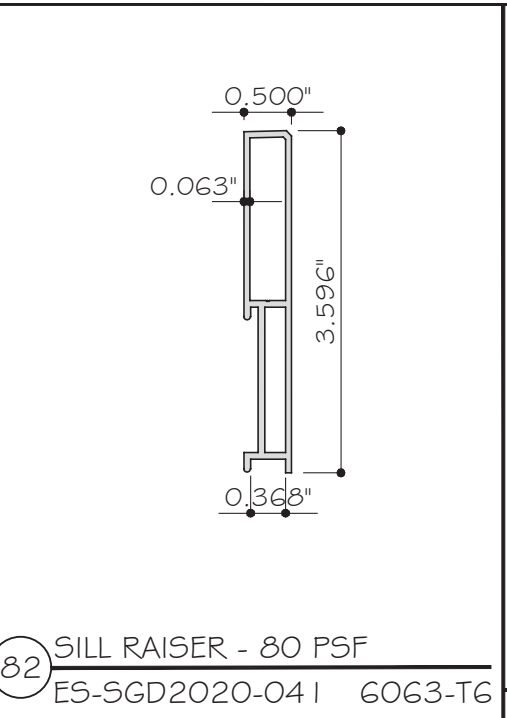
30 FIXED STILE FOR INSULATED LAMINATED
ES-SGD2020-030 6063-T6



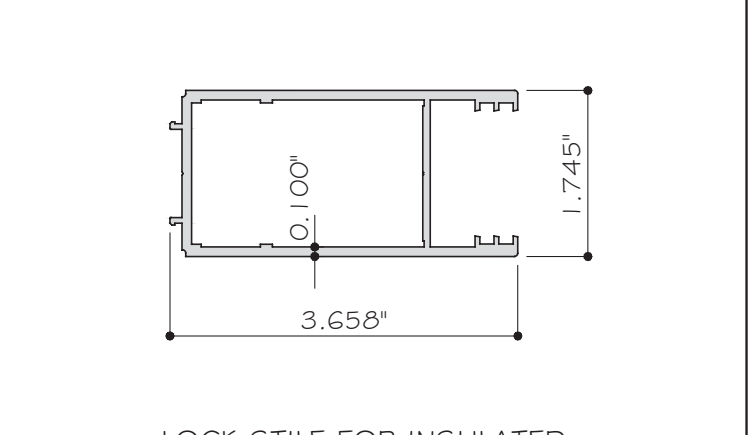
31A INTERLOCK FOR INSULATE LAMINATED
ES-SGD2020-087 6005-T5



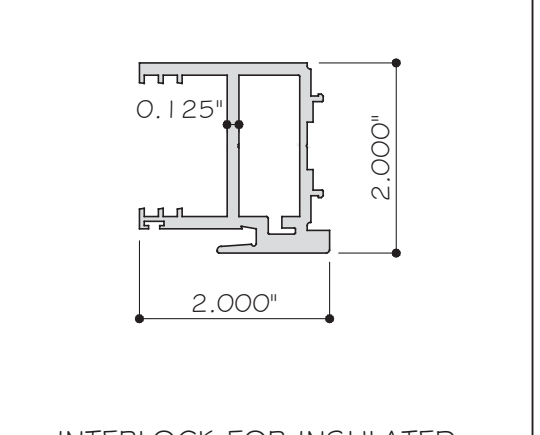
38 SILL RAISER - 90 PSF
ES-SGD2020-040 6063-T6



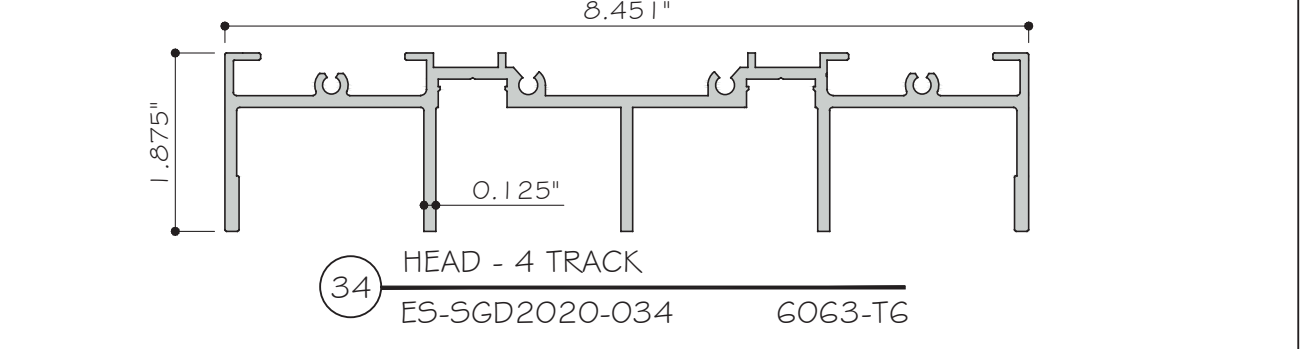
82 SILL RAISER - 80 PSF
ES-SGD2020-041 6063-T6



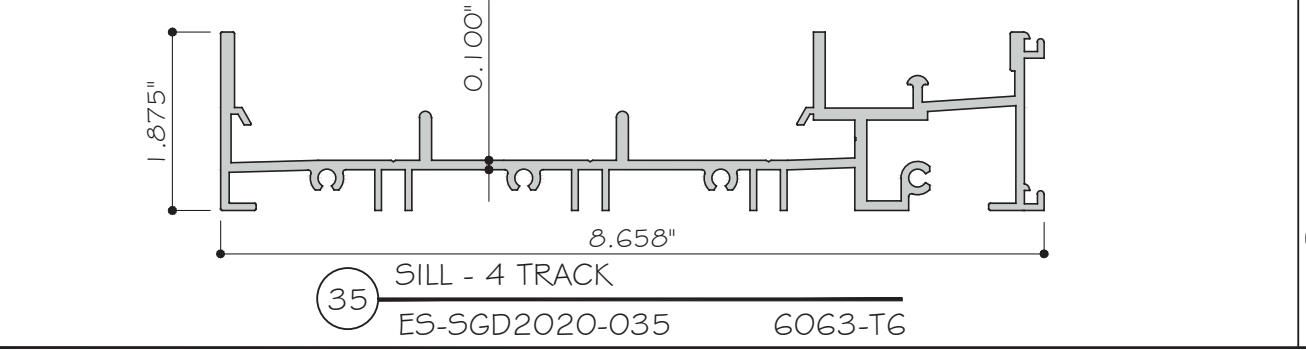
33 LOCK STILE FOR INSULATED
LAMINATED GLASS
ES-SGD2020-033 6063-T6



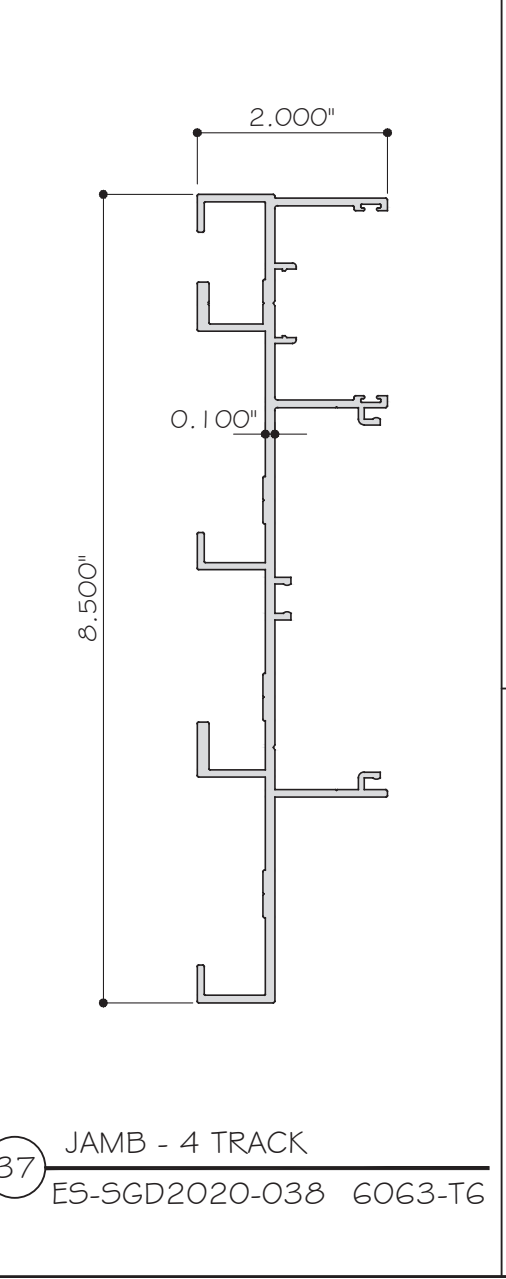
31 INTERLOCK FOR INSULATED
LAMINATED GLASS
ES-SGD2020-031 6063-T6



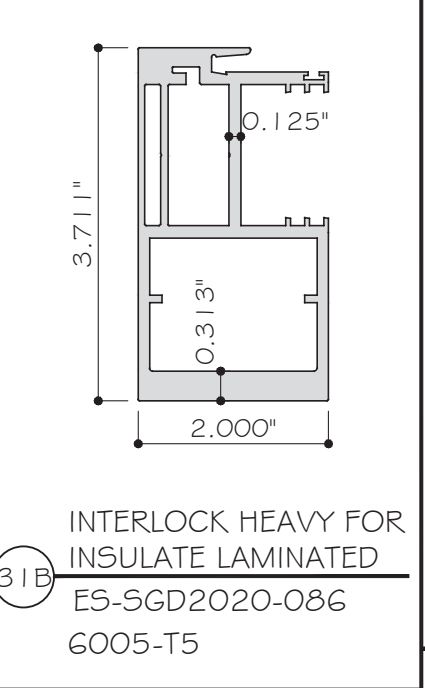
34 HEAD - 4 TRACK
ES-SGD2020-034 6063-T6



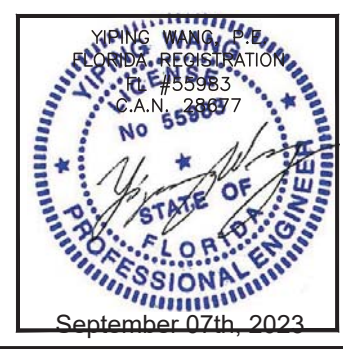
35 SILL - 4 TRACK
ES-SGD2020-035 6063-T6



37 JAMB - 4 TRACK
ES-SGD2020-038 6063-T6



31B INTERLOCK HEAVY FOR
INSULATE LAMINATED
ES-SGD2020-086 6005-T5

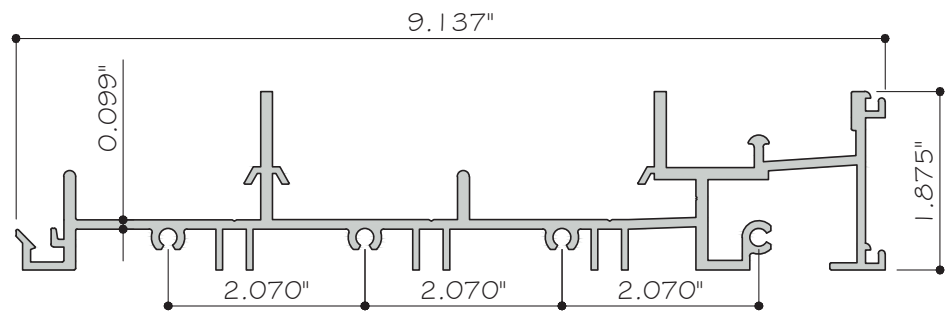


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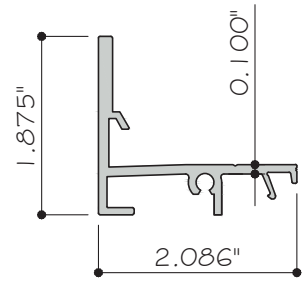
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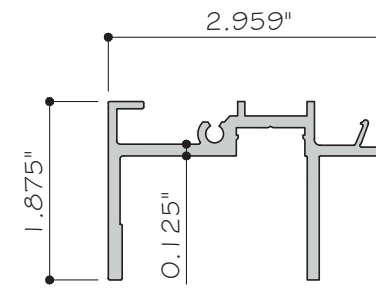
Drawn Date: 09.05.2023 Scale:
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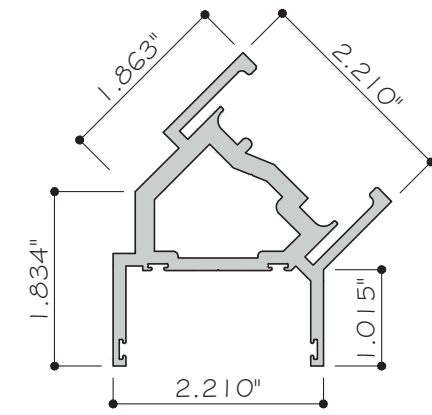
65 FRAME SILL - 5 TRACKS
ES-SGD2020-055 6063-T6



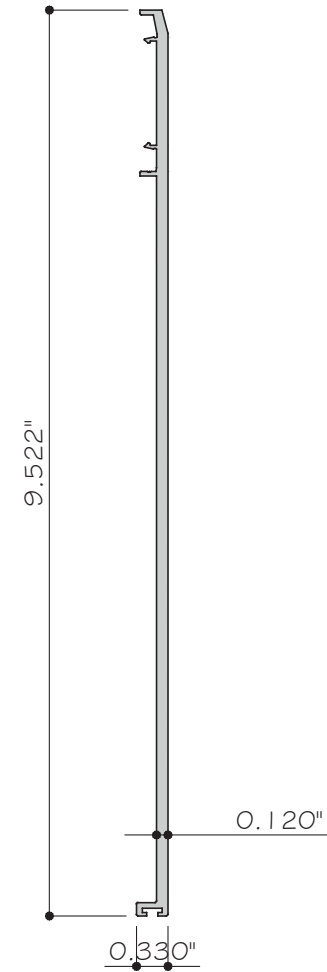
66 FRAME FRONT SILL
ES-SGD2020-054 6063-T6



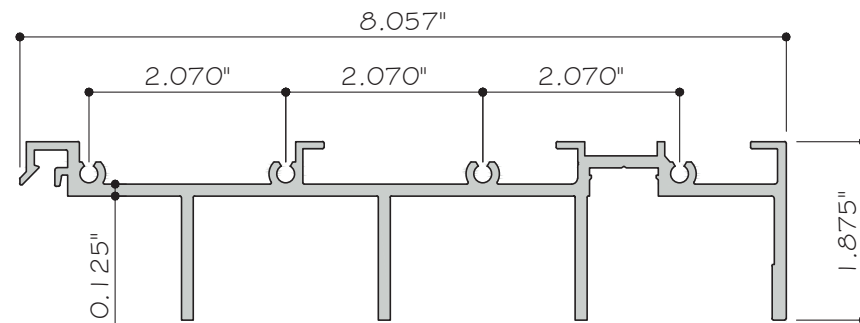
67 FRAME FRONT HEAD
ES-SGD2020-062 6063-T6



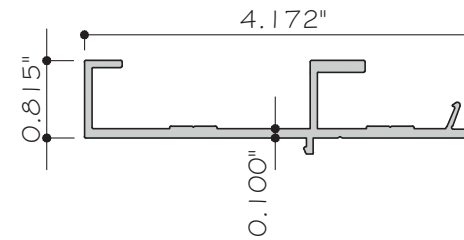
71 FRAME FRONT SILL
ES-SGD2020-056 6063-T6



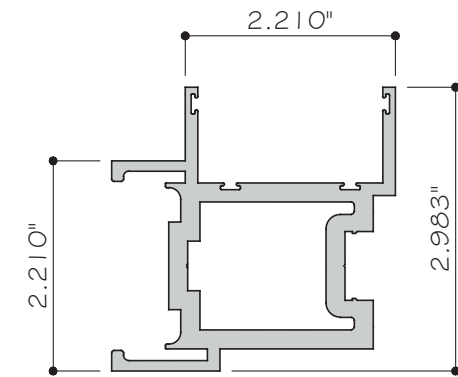
72 POCKET DOOR CLOSER - 5 TRACKS
ES-SGD2020-061 6063-T6



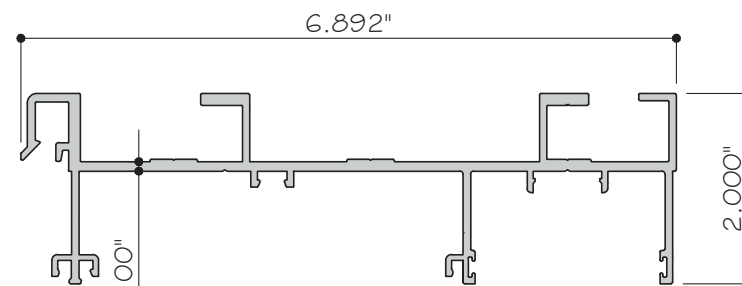
69 FRAME HEAD - 5 TRACKS
ES-SGD2020-063 6063-T6



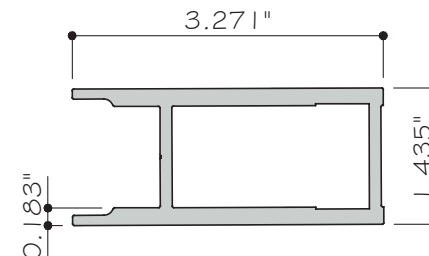
70 FRAME FRONT JAMB
ES-SGD2020-064 6063-T6



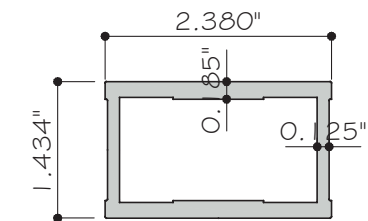
75 FRAME FRONT SILL
ES-SGD2020-068 6063-T6



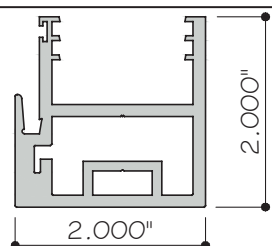
73 JAMB - 5 TRACKS
ES-SGD2020-065 6063-T6



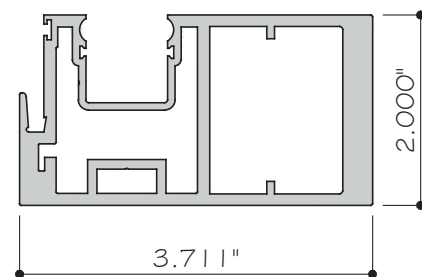
74 REINF. FOR LOCK STILE LAM. GLASS
ES-SGD2020-071 6063-T6



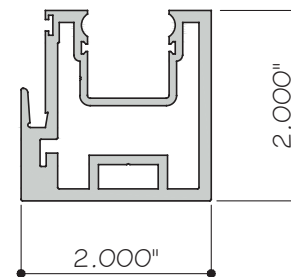
81 REINF. FOR LOCK STILE (INSL-LAM.)
ES-SGD2020-07X 6063-T6



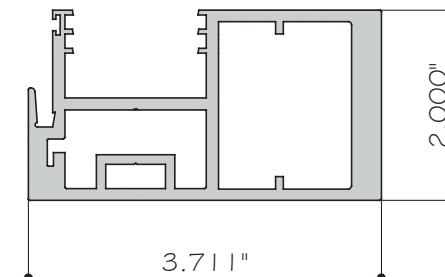
87A INTERLOCK FOR INSULATED LAMINATED GLASS
ES-SGD2020-087A 6005-T5



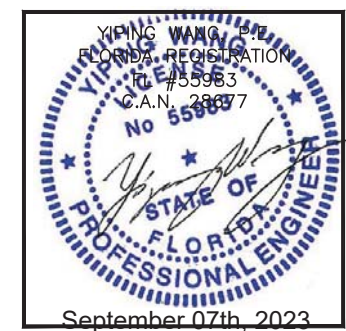
84A INTERLOCK HEAVY FOR LAMINATED GLASS
ES-SGD2020-084A 6005-T5



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



86A INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS
ES-SGD2020-086A 6005-T5



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BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	E5-SGD2020-001	HEAD (3 TRACK)	6063-T6	-
2	E5-SGD2020-002	SILL (3 TRACK)	6063-T6	-
3	E5-SGD2020-003	FRAME SILL COVER	6063-T6	-
4	E5-SGD2020-004	JAMB (3 TRACK)	6063-T6	-
5	E5-SGD2020-005	FREESTANDING JAMB (3 TRACK)	6063-T6	-
6	E5-SGD2020-006	UN-ANCHORED JAMB REINFORCEMENT FOR 3 TRACK	6005-T5	-
7	E5-SGD2020-007	HI SILL RAISER 3-1/16" HEIGHT	6063-T6	-
8	E5-SGD2020-008	STANDARD SILL RAISER 2-9/16" HEIGHT	6063-T6	-
9	E5-SGD2020-009	POCKET JAMB	6063-T6	-
10	E5-SGD2020-010	JAMB SCREW COVER	6063-T6	-
11	E5-SGD2020-011	HEAD 2 TRACK	6063-T6	-
12	E5-SGD2020-012	SILL 2 TRACK	6063-T6	-
13	E5-SGD2020-013	FRAME SILL COVER	6063-T6	-
14	E5-SGD2020-014	JAMB (2 TRACK)	6063-T6	-
15	E5-SGD2020-015	FREESTANDING JAMB (2 TRACK)	6063-T6	-
16	E5-SGD2020-016	FREESTANDING JAMB REINFORCEMENT FOR 2 TRACK	6063-T6	-
17	E5-6011	JAMB SCREW COVER	6063-T6	-
18	E5-SGD2020-018	INTERLOCK AND LOCK STILE SCREW COVER	6063-T6	-
19	E5-SGD2020-019	HEAVY INTERLOCK REINFORCEMENT	6005-T5	-
20	E5-SGD2020-020	HEAVY INTERLOCK REINFORCEMENT COVER	6063-T6	-
21	E5-SGD2020-021	REINFORCEMENT FOR INTERLOCK	6005-T5	-
21A	E5-SGD2020-021A	REINFORCEMENT FOR INTERLOCK LAMINATED GLASS	6005-T5	-
22	E5-SGD2020-022	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
22A	E5-SGD2020-084	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
22B	E5-SGD2020-085	INTERLOCK HEAVY FOR LAMINATED GLASS	6005-T5	-
23	E5-SGD2020-023	ASTRAGAL	6005-T5	-
24	E5-SGD2020-024	TOP RAIL FOR LAMINATED GLASS	6063-T6	-
25	E5-SGD2020-025	BOTTOM RAIL FOR LAMINATED GLASS	6063-T6	-
26	E5-SGD2020-026	FIXED STILE FOR LAMINATED GLASS	6063-T6	-
27	E5-SGD2020-027	LOCK STILE FOR LAMINATED GLASS	6063-T6	-
27A	E5-SGD2020-088	LOCK STILE FOR LAMINATED GLASS	6063-T6	-
28	E5-SGD2020-028	TOP RAIL FOR INSULATED LAMINATED GLASS	6063-T6	-
29	E5-SGD2020-029	BOTTOM RAIL FOR INSULATED GLASS	6063-T6	-
30	E5-SGD2020-030	FIXED STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
31	E5-SGD2020-031	INTERLOCK FOR INSULATED LAMINATED GLASS	6063-T6	-
31A	E5-SGD2020-087	INTERLOCK FOR INSULATED LAMINATED GLASS	6005-T5	-
31B	E5-SGD2020-086	INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS	6005-T5	-
32	E5-SGD2020-032	REINFORCEMENT FOR INTERLOCK INSULATED LAM. GLASS	6005-T5	-
32A	E5-SGD2020-032A	REINFORCEMENT FOR INTERLOCK INSULATED LAM. GLASS	6005-T5	-
33	E5-SGD2020-033	LOCK STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
33A	E5-SGD2020-089	LOCK STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
34	E5-SGD2020-034	HEAD (4 TRACK)	6063-T6	-
35	E5-SGD2020-035	SILL (4 TRACK)	6063-T6	-
36	E5-SGD2020-036	FRAME SILL COVER (4 TRACK)	6063-T6	-
37	E5-SGD2020-037	JAMB (4 TRACK)	6063-T6	-
38	E5-SGD2020-040	SILL RAISER 4-3/16" HEIGHT	6063-T6	-
39	E52020-G01	GLAZING GASKET FOR LAMINATED GLASS	SILICONE, DURO 70	-
40	E52020-G02	GLAZING GASKET FOR LAMINATED GLASS	SILICONE, DURO 70	-
41	E52020-G03	GLAZING GASKET FOR INSULATED LAMINATED GLASS	SILICONE, DURO 70	-
42	E52020-G04	INTERLOCK BUMPER	BLACK PVC, 60 SHORE D	-
43	E52020-G05	GLAZING GASKET FOR INSULATED LAMINATED GLASS	SILICONE, DURO 70	-
44	W2321NG	SILL, HEAD PILE	POLYPROPYLENE	-
45	W23171NK	INTERLOCK PILE	POLYPROPYLENE	-

BILL OF MATERIALS

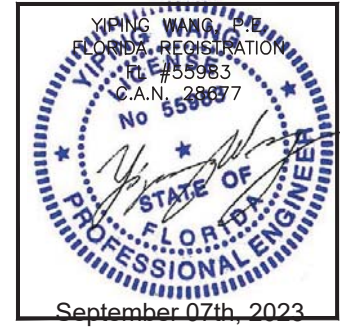
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
46	W2321NG	INTERLOCK ASTRAGAL	POLYPROPYLENE	-
47	WA2L	WEEP/POLE COVER	POLYPROPYLENE	-
48	QEZ 447-1	GLON	FOAM ALL STRUCTURE	-
49	P501-0035-00B	RECESSED FACEPLATE SBML LOCK TWO POINT	-	-
50	P501-0035-00B	INVOLUTE HANDLE SET	-	-
	P501-0014-000		-	-
	P501-0014-00B		-	-
	P501-0014-117		-	-
51	P501-1005-00B	ADJUSTABLE STRIKE	POLYPROPYLENE	-
	P501-0060-000 2P		-	-
52	SGD-1700	BUMPER	STEEL AND RUBBER	-
53	1986-PRN-300055	ROLLER	STAINLESS STEEL	-
54	GTT-1500G-HKA-01-TE	ROLLER	-	ZAMAK
55	-	#10 X 7/8" P.H. SCREW FOR PANEL ASSEMBLY	ST/ST	-
56	-	#12 X 1-1/2" P.H. SCREW FOR FRAME ASSEMBLY	ST/ST	-
57	-	#8 X 3/4" P.H. SCREW FOR HANDLE STRIKE	ST/ST	-
58	-	#10 X 1" F.H. SCREW FOR MORTISE LOCK	ST/ST	-
59	-	#12 X 1" P.H. SCREW FOR BUMPER	ST/ST	-
60	-	#10 X 1" P.H. SCREW	ST/ST	-
61	-	1/4-20 X 2-1/2" PAN HEAD SCREW	ST/ST	-
62	DC983	DOW CORNING 983 STRUCTURAL SILICONE	SILICONE	-
63	DC791	DOW CORNING 791	SILICONE	-
64	-	GLAZING SPACER	ALUMINUM	HELIMA
65	E5-SGD2020-055	FRAME SILL- 5 TRACKS	6063-T6	-
66	E5-SGD2020-054	FRAME FRONT SILL	6063-T6	-
67	E5-SGD2020-062	FRAME FRONT HEAD	6063-T6	-
68	E5-SGD2020-021	INTERLOCK REINF. FOR LAMINATED GLASS	6063-T5	-
69	E5-SGD2020-063	FRAME HEAD - 5 TRACKS	6063-T6	-
70	E5-SGD2020-064	FRAME FRONT JAMB	6005-T5	-
71	E5-SGD2020-056	FRAME FRONT SILL	6063-T6	-
72	E5-SGD2020-061	POCKET DOOR CLOSER - 5 TRACKS	6063-T6	-
73	E5-SGD2020-065	JAMB - 5 TRACK	6063-T6	-
74	E5-SGD2020-071	REINF. FOR LOCK STILE LAM. GLASS	6063-T6	-
75	E5-SGD2020-068	FRAME FRONT SILL	6063-T6	-
76	ALU-P-018	SUPPORT FOR HANDLE LOCK	6063-T6	-
77	ALU-P-020	SUPPORT FOR HANDLE LOCK	6063-T6	-
78	E5-W525-014	COVER -POCKET	6063-T5	-
79	E5-SGD2020-069	HOOK STRIP BASE	6063-T6	-
80	E5-SGD2020-070	HOOK STRIP	6063-T6	-
81	E5-SGD2020-07X	REINFORCE FOR LOCK STILE (INSUL-LAM)	6063-T6	-
82	E5-SGD2020-041	SILL RAISER	6063-T6	-
84A	E5-SGD2020-084A	INTERLOCK HEAVY FOR LAMINATED GLASS	6005-T5	-
85A	E5-SGD2020-085A	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
86A	E5-SGD2020-086A	INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS	6005-T5	-
87A	E5-SGD2020-087A	INTERLOCK FOR INSULATED LAMINATED GLASS	6005-T5	-

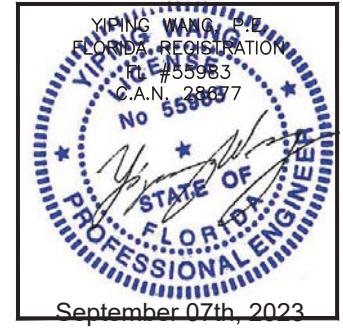
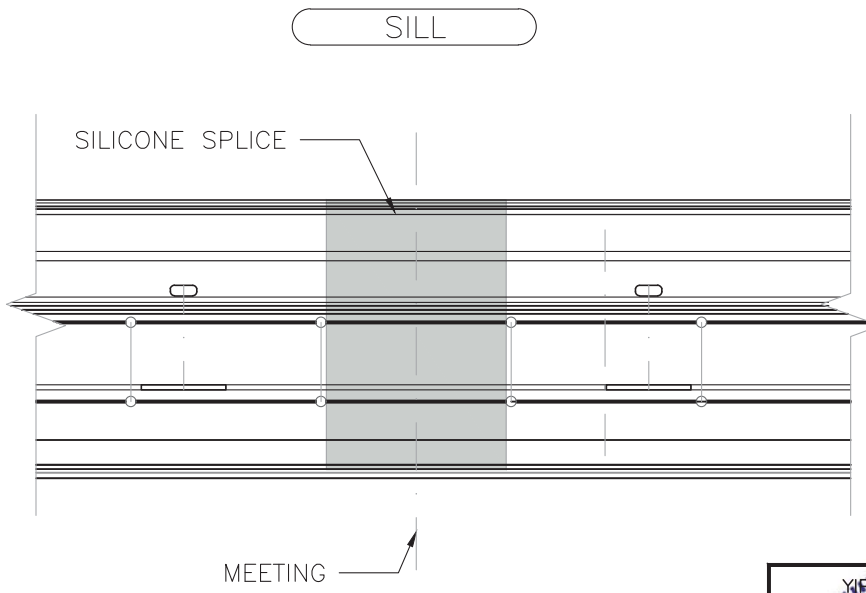
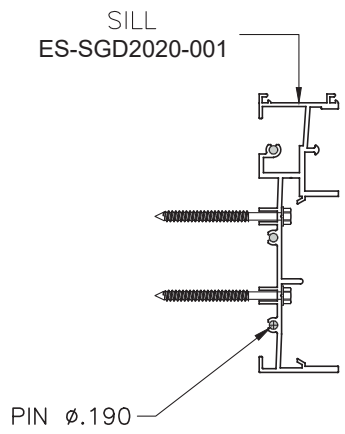
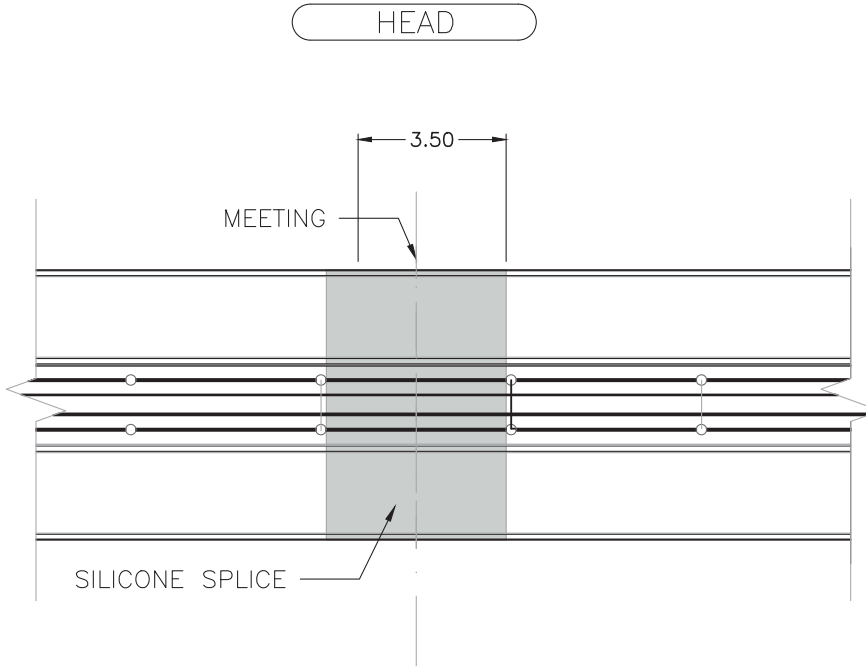
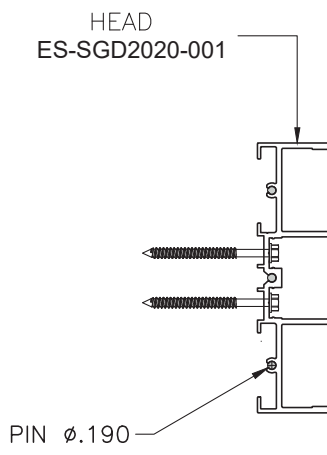
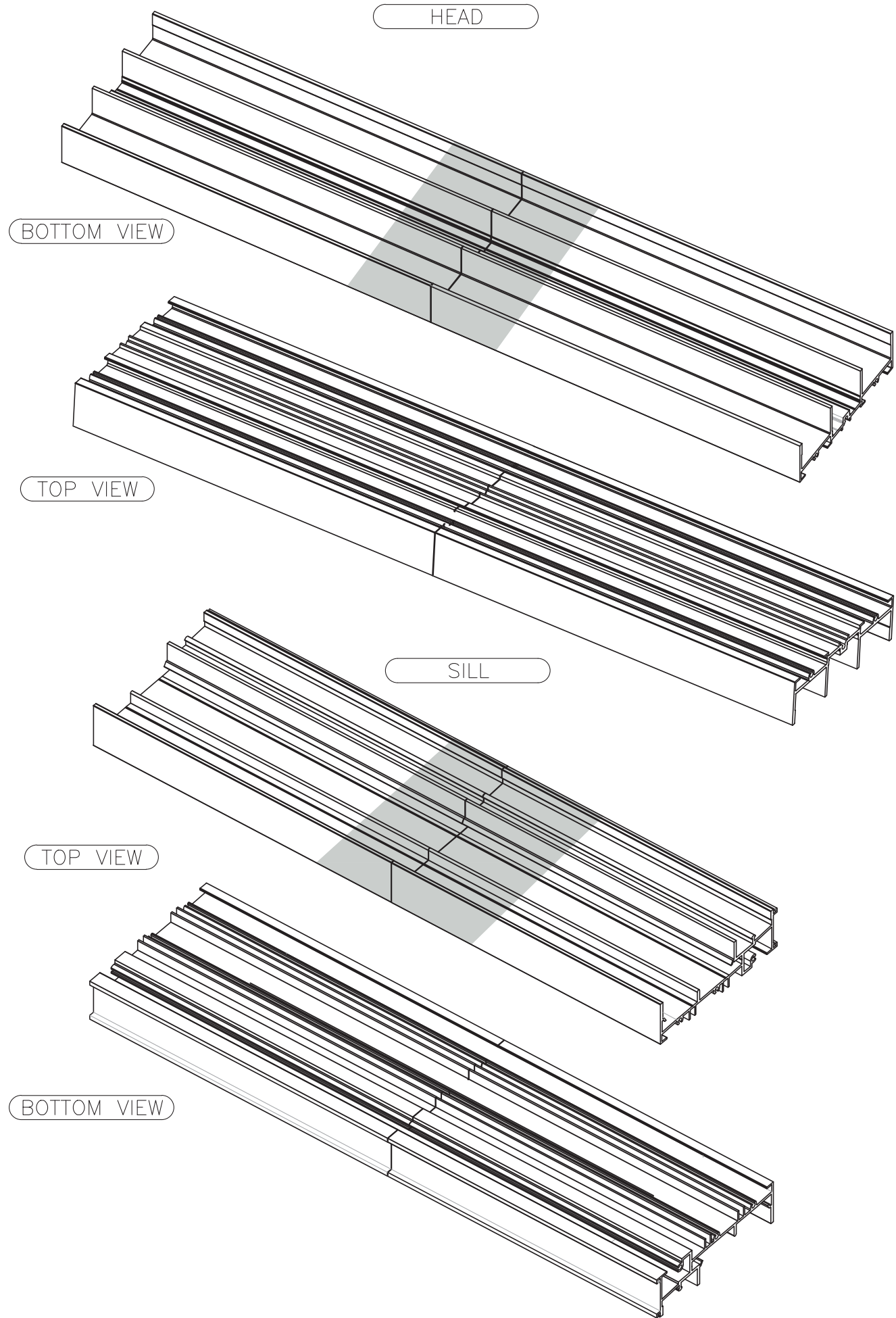
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