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

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

SERIES SGD 2020T SLIDING GLASS DOOR

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

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

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

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

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

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

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

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

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

SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION SEALED WITH SILICONE SEALANT.

INSTRUCTIONS:
USE CHARTS AS FOLLOWS

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

STEP 2 SEE SHEET E1 TO E3 FOR TYPICAL ELEVATIONS FOR SGD WITH 4, 3 AND 2 TRACKS. SEE SHEET E4 FOR SGD WITH 90 DEGREE CORNER. SEE APPROVED CONFIGURATIONS ON SHEETS E5 THROUGH E10.

STEP 3 SEE SHEET G2 FOR GLASS TYPES AND INTERLOCK OPTIONS. SEE CHART ON SHEET G1 FOR APPROVED DESIGN LOADS BASED ON SGD SIZES.

STEP 4 FOR TYPICAL AND POCKET JAMB ANCHOR, SEE OPTIONS AND SPACING ON SHEETS J1 AND J2. HEAD & SILL ANCHOR OPTIONS SEE SHEET A1 AND LAYOUT ON SHEET E1 TO E4. ANCHOR LOAD CAPACITIES SEE CHART ON SHEET A2.

STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 4 SHALL APPLY TO ENTIRE SYSTEM.

FL #40525.1

LIMITATIONS OF USE

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER

C / 7 — C: SECTION NUMBER; 7: SHEET NUMBER

YIPING WANG, P.E.
FLORIDA REGISTRATION
P.E. #55983
C.A.N. 0006877
STATE OF FLORIDA PROFESSIONAL ENGINEER
December 19th, 2024

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www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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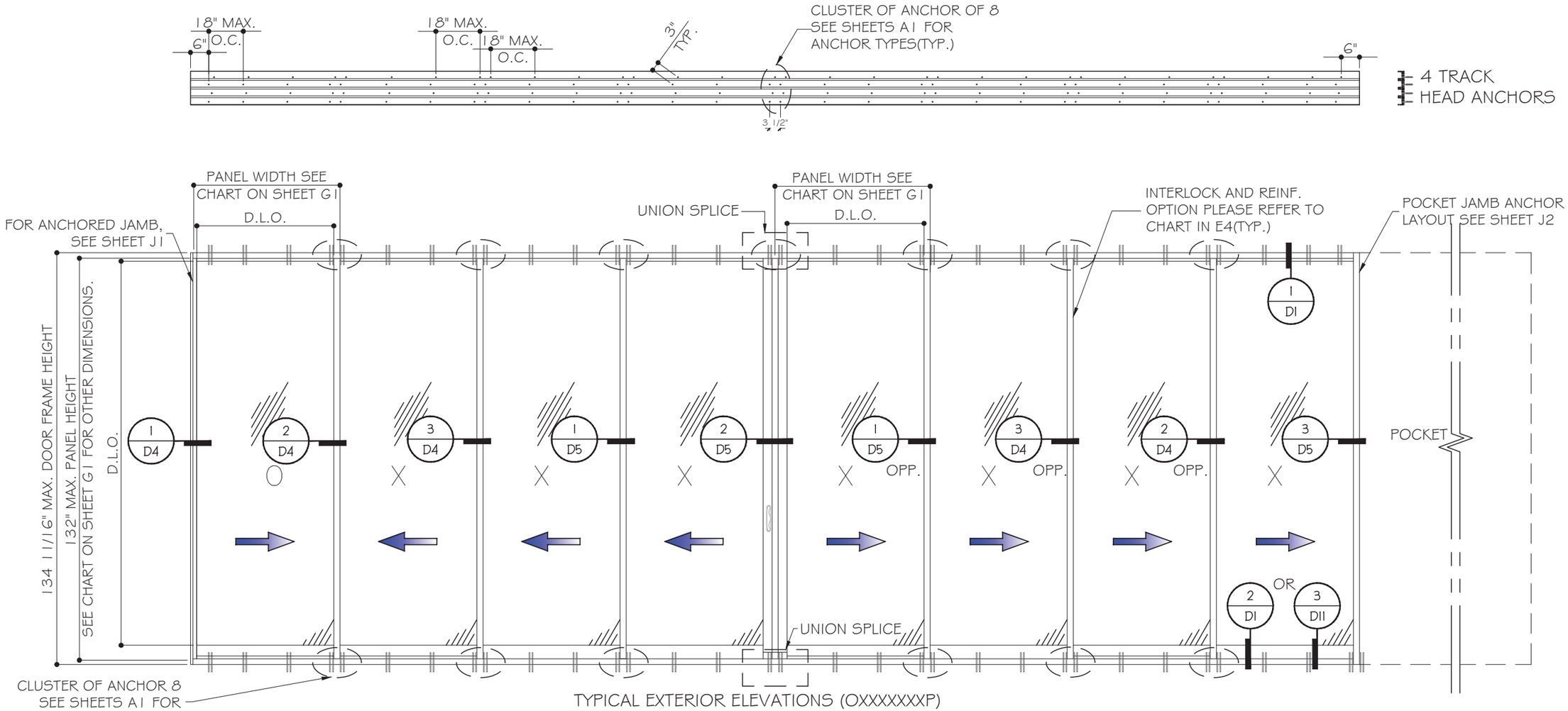
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COVER

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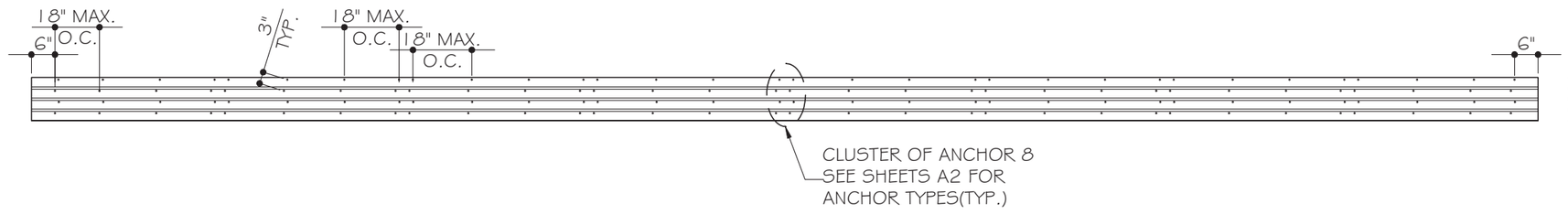


TYPICAL EXTERIOR ELEVATIONS (OXXXXXXXP)

(SEE SHEET E5 TO E6 FOR APPROVED CONFIGURATIONS)

(SEE CHART ON SHEET G1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)

(SEE SHEET G2 FOR GLASS TYPES AND INTERLOCK OPTIONS)



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL

PANEL HEIGHT = FRAME HEIGHT - 2 11/16"

D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"

D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"

YING WANG, P.E.
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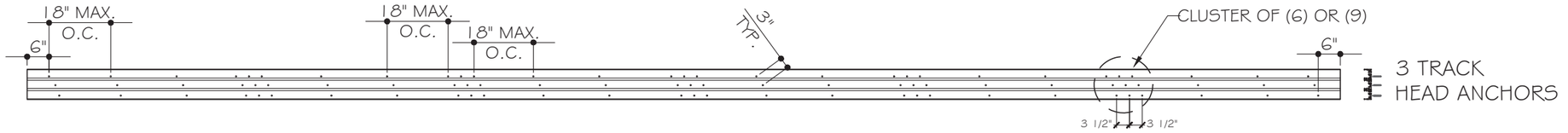
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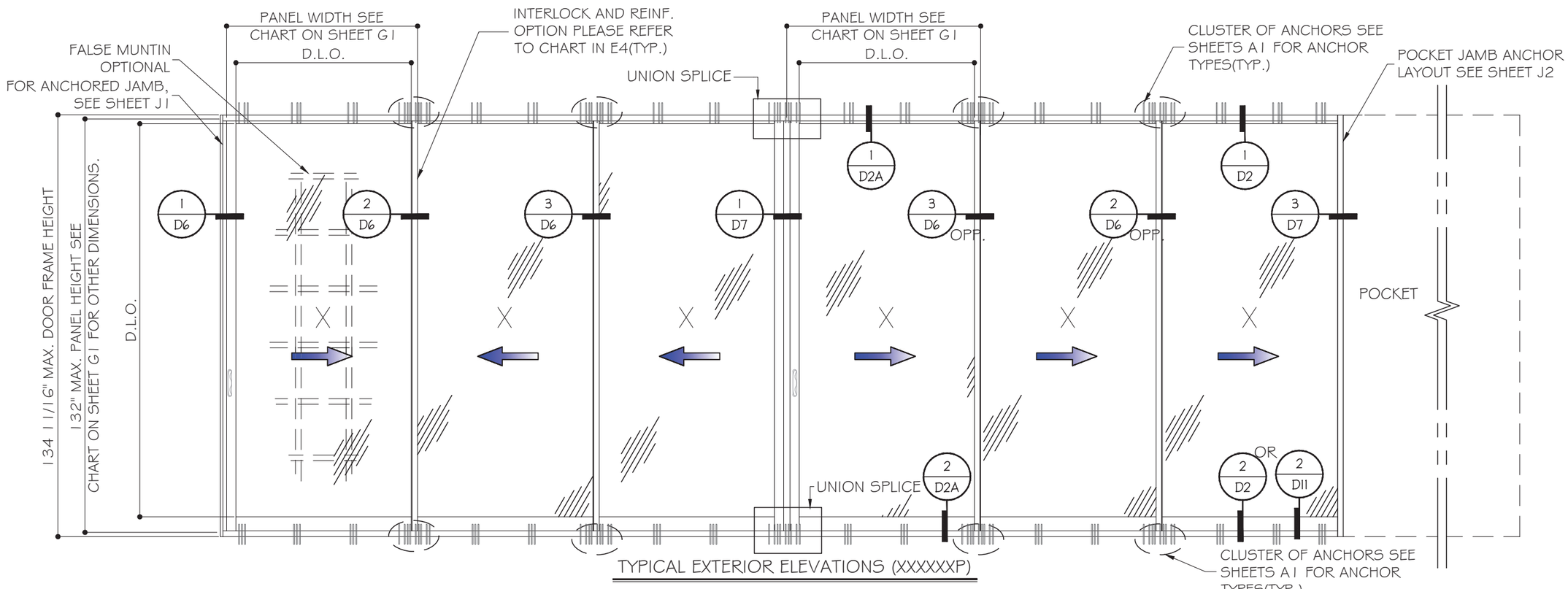
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E1

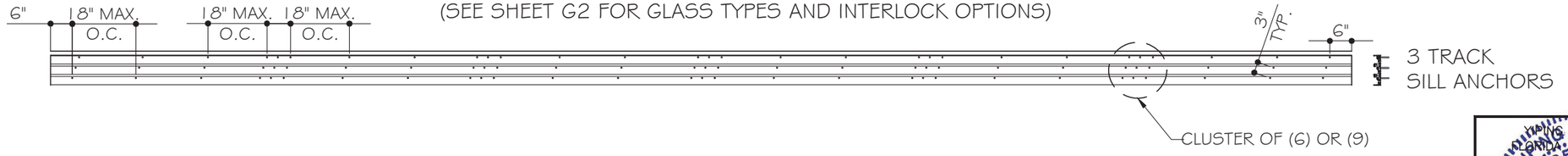
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TYPICAL EXTERIOR ELEVATIONS (XXXXXXP)

(SEE SHEET E7 TO E8 FOR APPROVED CONFIGURATIONS)
(SEE CHART ON SHEET G1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)
(SEE SHEET G2 FOR GLASS TYPES AND INTERLOCK OPTIONS)



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2 11/16"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"

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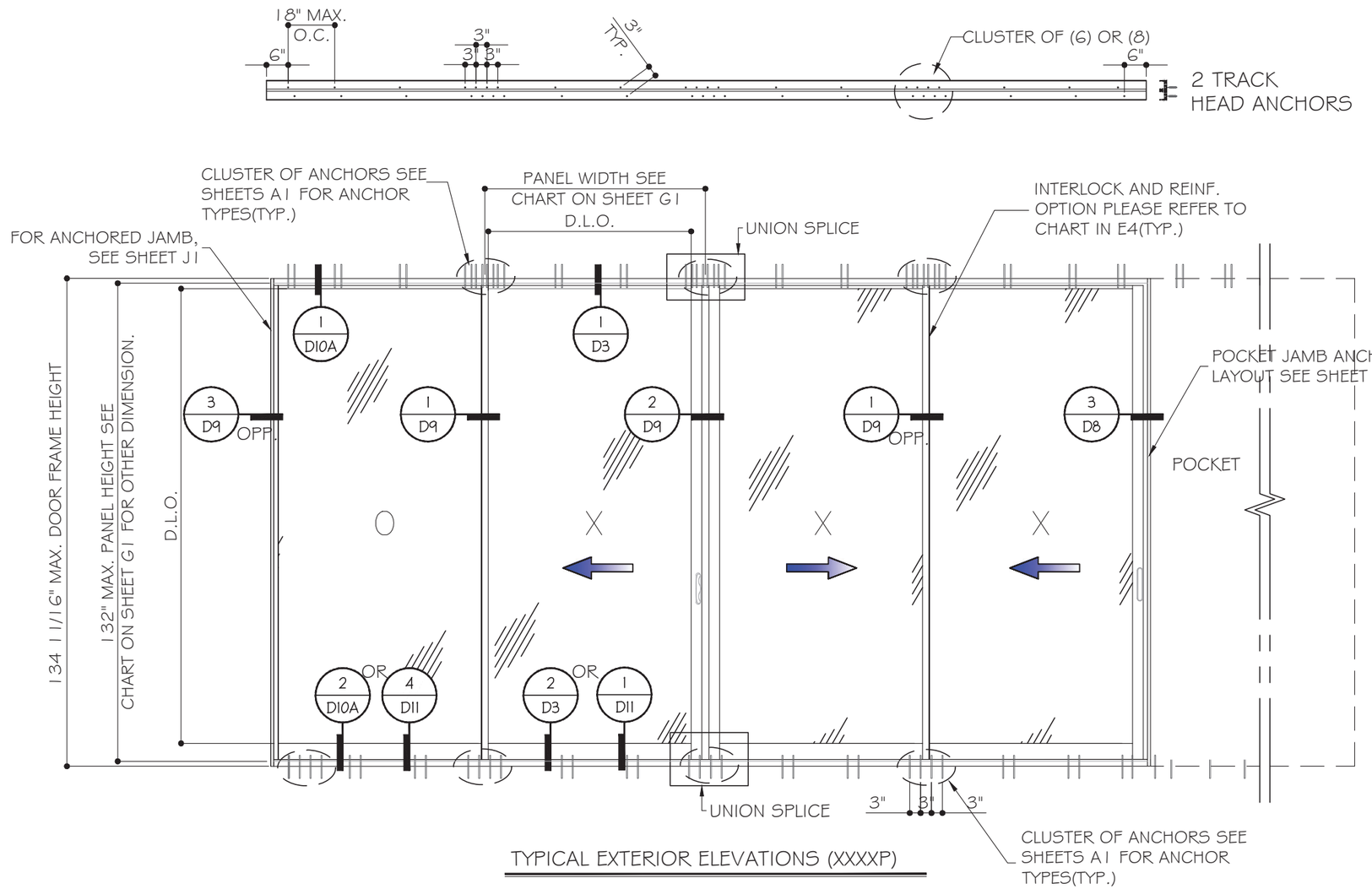
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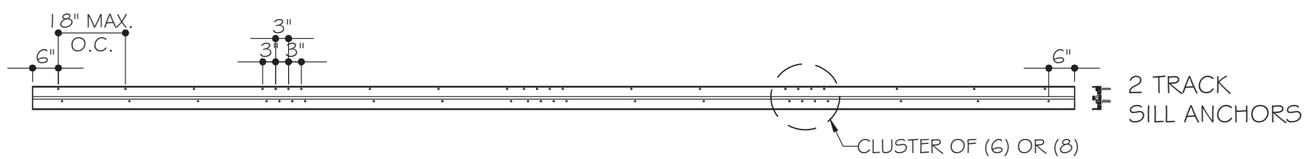
E2

Sheet No.
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TYPICAL EXTERIOR ELEVATIONS (XXXXP)

(SEE SHEET E9 TO E10 FOR APPROVED CONFIGURATIONS)
(SEE CHART ON SHEET G1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)
(SEE SHEET G2 FOR GLASS TYPES AND INTERLOCK OPTIONS)



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2 11/16"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"

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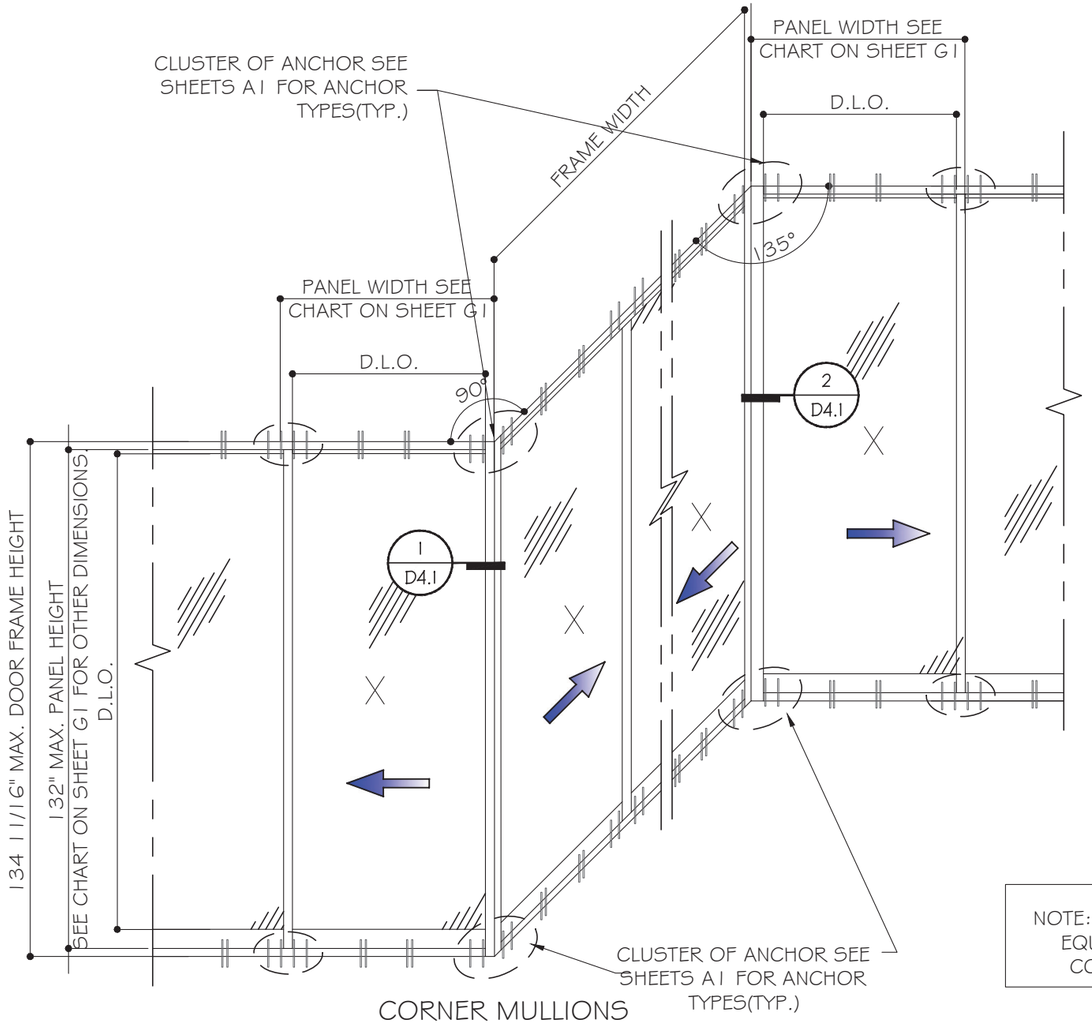
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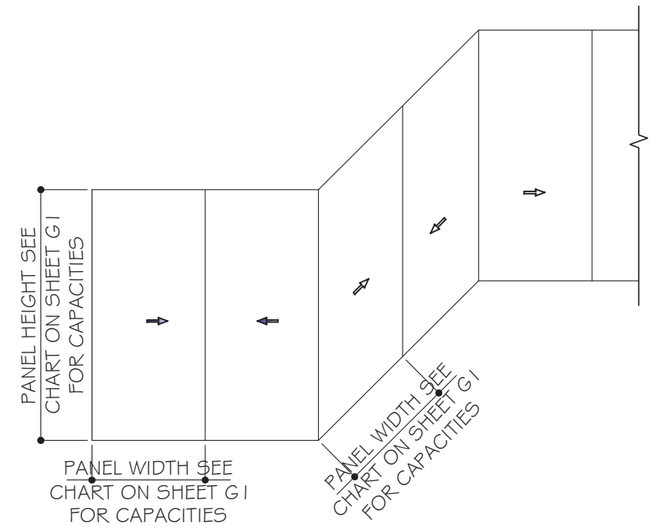
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E3

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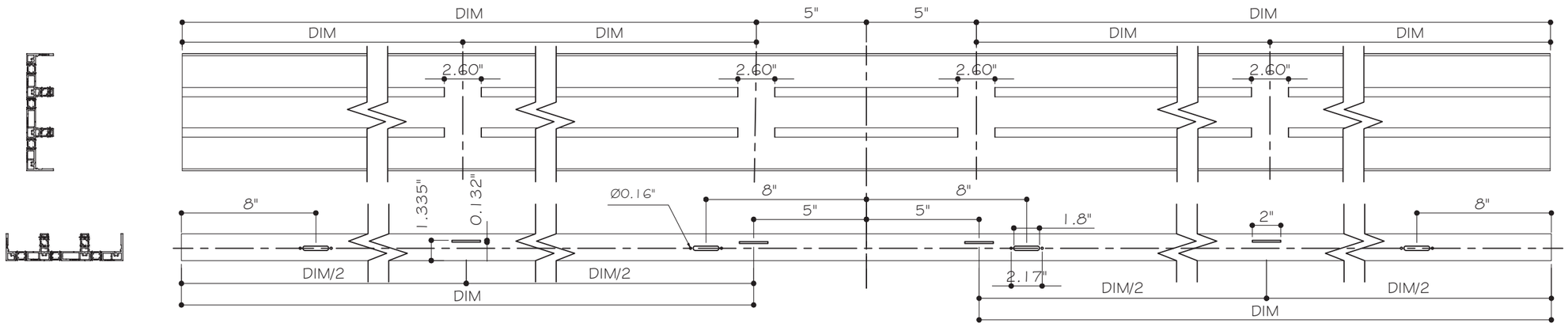
CORNER MULLIONS



(SEE SHEET G2 FOR GLASS TYPES AND INTERLOCK OPTIONS)

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

PANEL HEIGHT = FRAME HEIGHT - 2 11/16"



TYPICAL WEEP HOLE LAYOUT

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E4

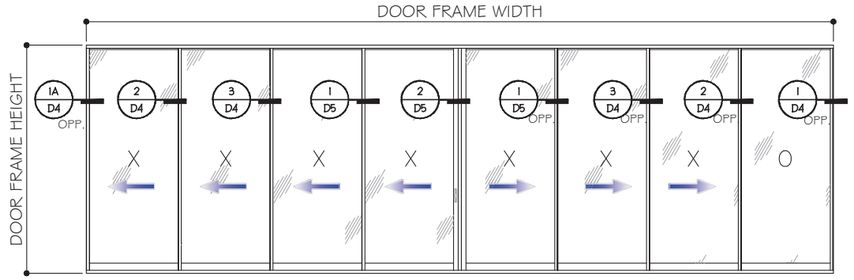
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APPROVED CONFIGURATION DOORS

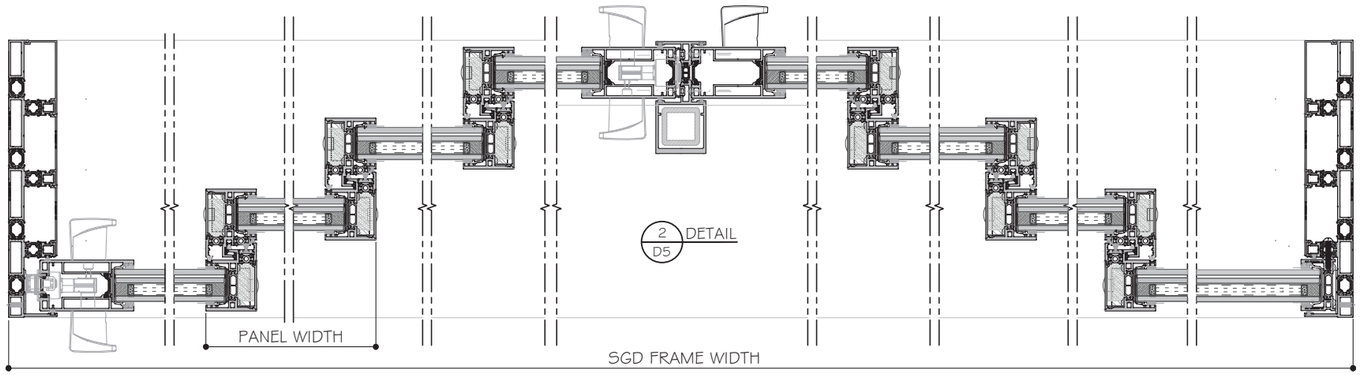
(INTERLOCK OPTION LEVEL 1 SHOWN)

SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS

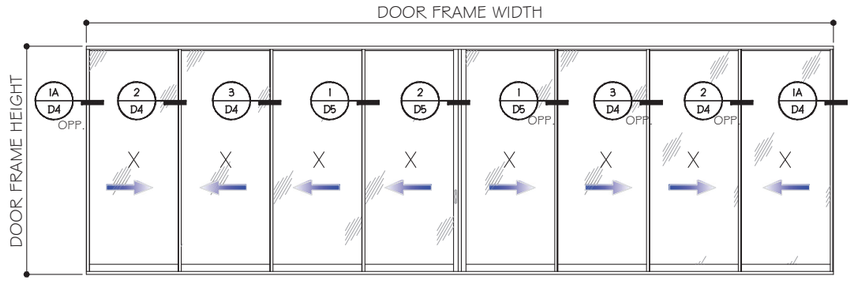


FOUR (4) TRACKS

XXXXXXXO (SHOWN)
OXXXXXXX

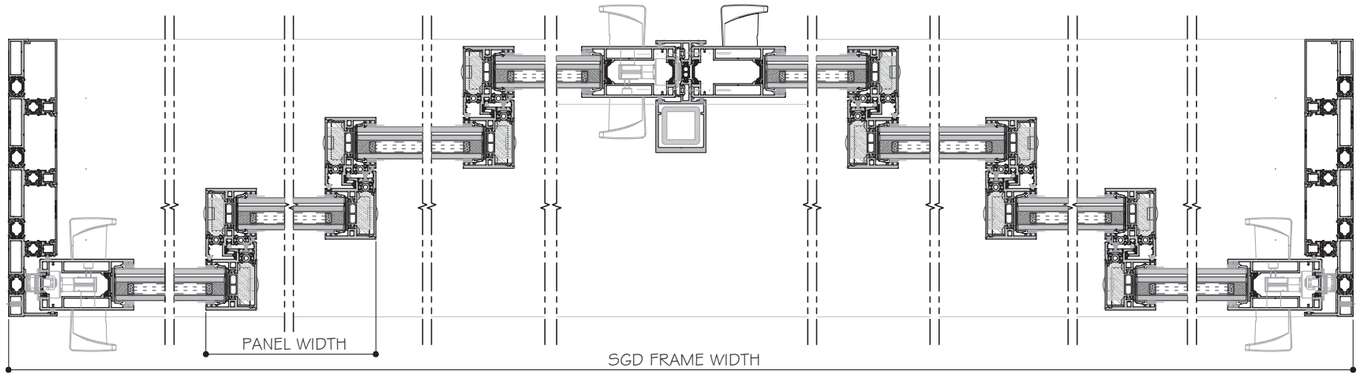


1A D4 DETAIL OPP. | 2 D4 DETAIL | 3 D4 DETAIL | 1 D5 DETAIL — EXTERIOR — 1 D5 DETAIL OPP. | 3 D4 DETAIL OPP. | 2 D4 DETAIL OPP. | 1 D4 DETAIL OPP.

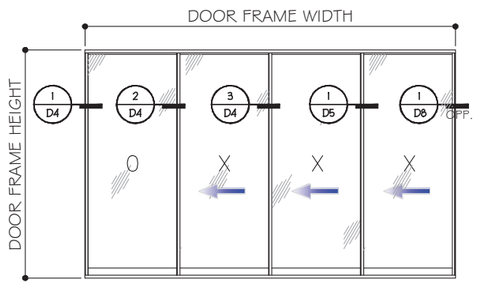


FOUR (4) TRACKS

XXXXXXXX (SHOWN)
OXXXXXXO

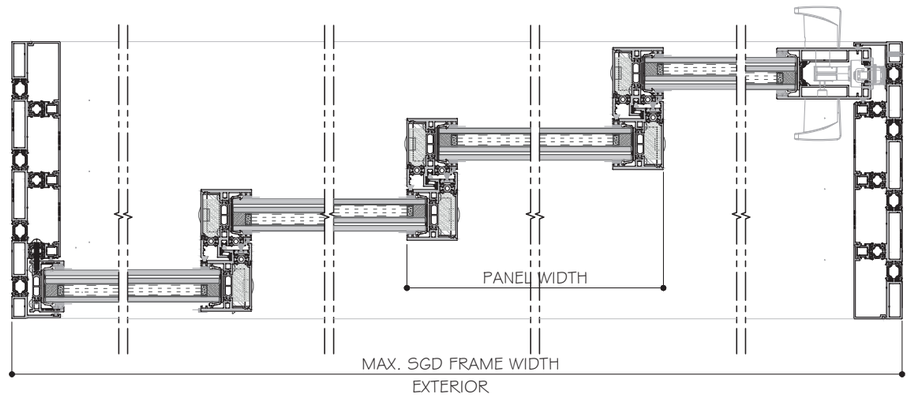


1A D4 DETAIL OPP. | 2 D4 DETAIL | 3 D4 DETAIL | 1 D5 DETAIL | 2 D5 DETAIL | 1 D5 DETAIL OPP. | 3 D4 DETAIL OPP. | 2 D4 DETAIL OPP. | 1A D4 DETAIL



FOUR (4) TRACKS

OXXX (SHOWN)
XXXO
XXXX



1 D4 DETAIL | 2 D4 DETAIL | 3 D4 DETAIL | 1 D5 DETAIL | 1 D8 DETAIL OPP.

NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G2 FOR GLASS AND INTERLOCK OPTIONS.
3. FOR ALLOWABLE DESIGN PRESSURES OF SGD SEE SHEET G1 BASED ON INTERLOCK LEVEL 1, 2,2R, 3 OR 4 & GLASS OPTIONS,
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1&A2 AND LAYOUT SEE SHEET E1 TO E4.
5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

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E5

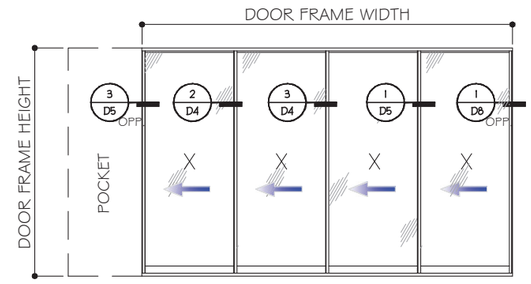
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FLORIDA REGISTRATION
P.E. #55983
C.A.N. 28677
STATE OF FLORIDA PROFESSIONAL ENGINEER
December 19th, 2024

APPROVED CONFIGURATION DOORS

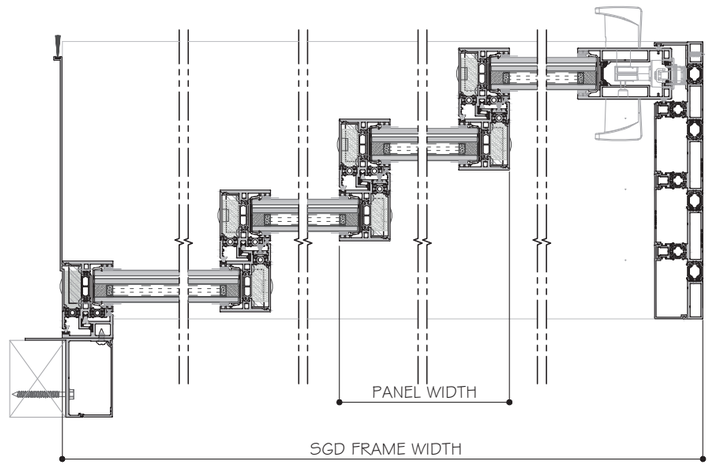
(INTERLOCK OPTION LEVEL 1 SHOWN)

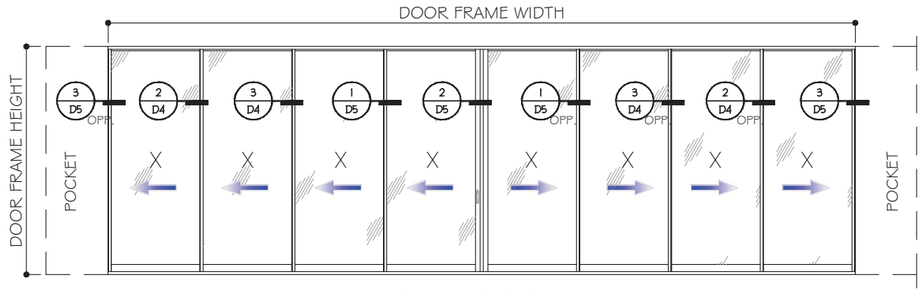
SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS



FOUR (4) TRACKS

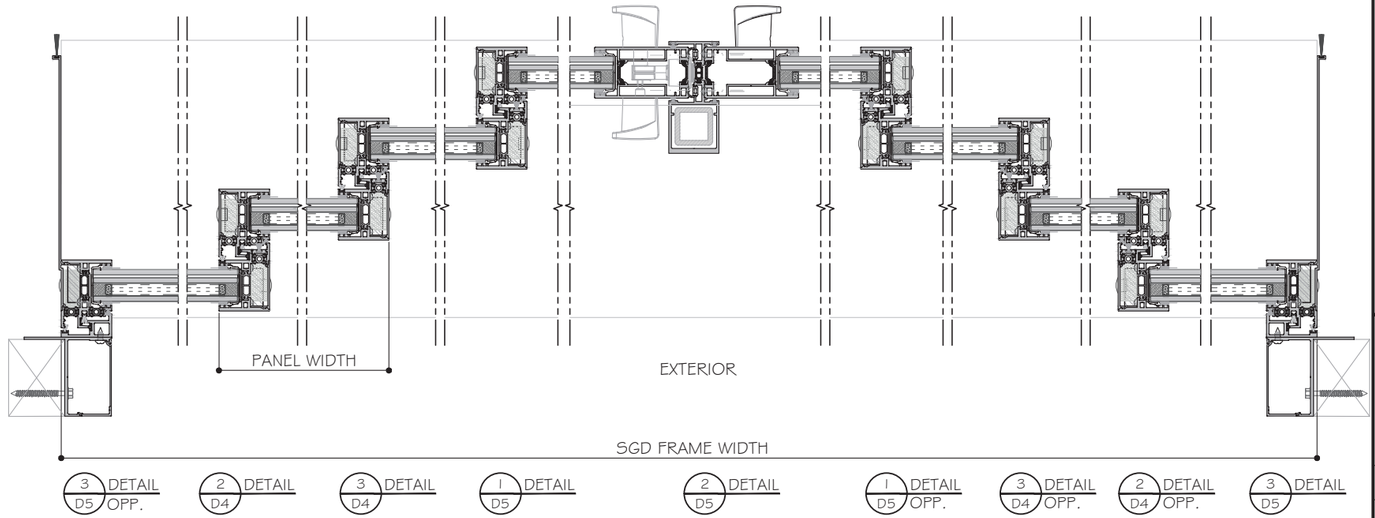
PXXXX (SHOWN)
XXXXP





FOUR (4) TRACKS

PXXXXXXXP (SHOWN)
PXXXXXXXX
XXXXXXXXP
OXXXXXXXP
PXXXXXXXO



NOTES:

CENTER PANELS & ASTRAGAL SHOWN AT INTERIOR TRACK.
IT CAN BE AT BOTH INSIDE OR EXERTIOR TRACK.

NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G2 FOR GLASS AND INTERLOCK OPTIONS.
3. FOR ALLOWABLE DESIGN PRESSURES OF SGD SEE SHEET G1 BASED ON INTERLOCK LEVEL 1, 2,2R, 3 OR 4 & GLASS OPTIONS,
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1&A2 AND LAYOUT SEE SHEET E1 TO E4.
5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

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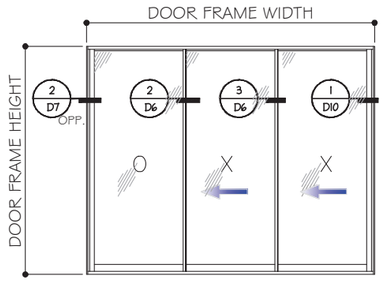
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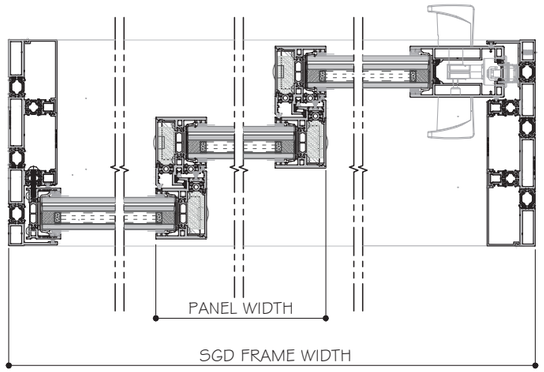
APPROVED CONFIGURATION DOORS

(INTERLOCK OPTION LEVEL 1 SHOWN)

SEE SHEET G1 & G2 FOR Dp AND INTERLOCK OPTIONS

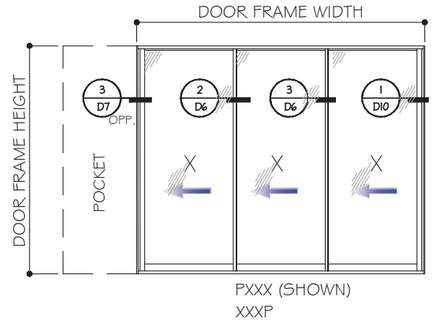


OXX (SHOWN)
XXO
XXX (& REVERSE)



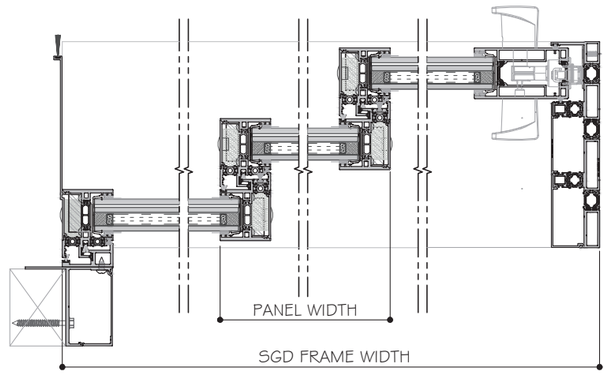
2 D7 DETAIL OPP. | 2 D6 DETAIL | 3 D6 DETAIL | 1 D10 DETAIL

THREE (3) TRACKS



PXXX (SHOWN)
XXXP

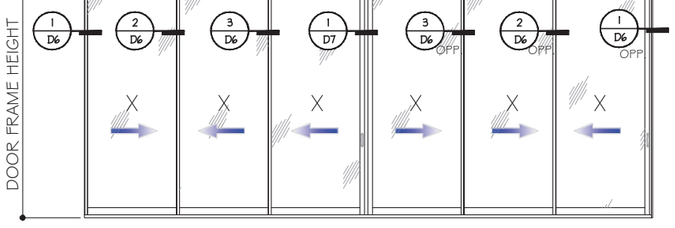
THREE (3) TRACKS



3 D7 DETAIL OPP. | 2 D6 DETAIL | 3 D6 DETAIL | 1 D10 DETAIL

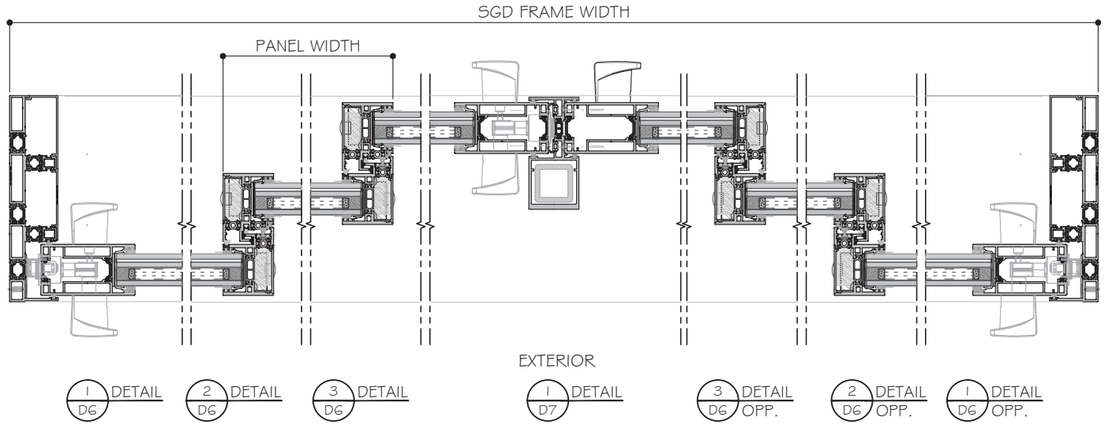
(REINFORCED SHOWN)

SEE SHEET K1 FOR Dp AND REINFORCING OPTIONS

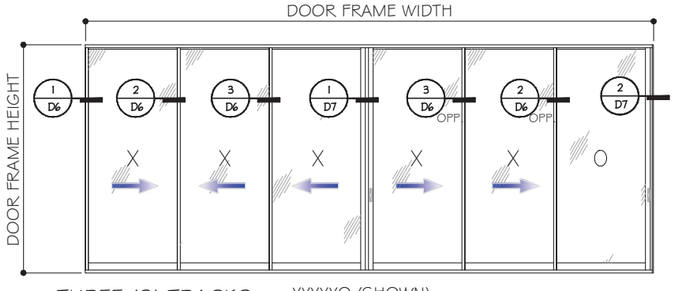


THREE (3) TRACKS

XXXXXX (SHOWN)

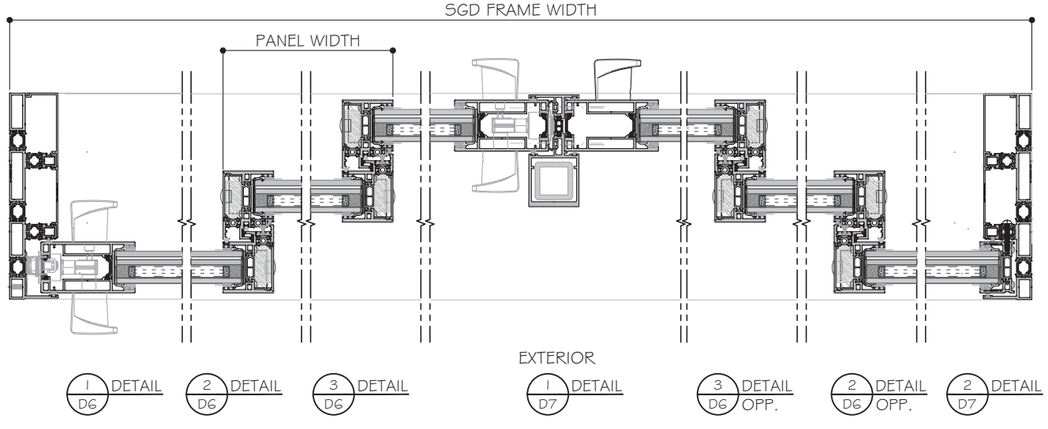


1 D6 DETAIL | 2 D6 DETAIL | 3 D6 DETAIL | 1 D7 DETAIL | 3 D6 OPP. | 2 D6 OPP. | 1 D6 OPP.



THREE (3) TRACKS

XXXXXO (SHOWN)
OXXXXO



1 D6 DETAIL | 2 D6 DETAIL | 3 D6 DETAIL | 1 D7 DETAIL | 3 D6 OPP. | 2 D6 OPP. | 2 D7 DETAIL

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ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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

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R3	08.29.2024	James	revision

Drawn Date 08.29.2024 | Scale

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E7

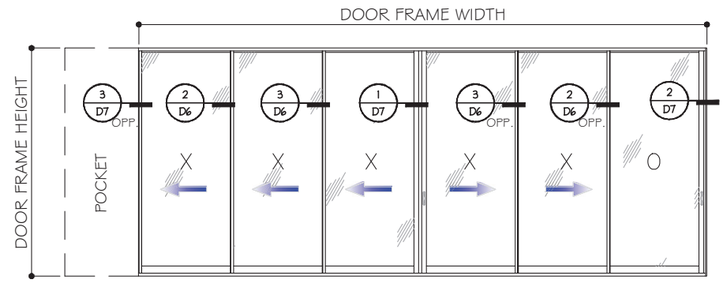
Sheet No.
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YIYING WANG P.E.
FLORIDA REGISTRATION
NO #55983
C.A.N. 28677
STATE OF FLORIDA PROFESSIONAL ENGINEER
December 19th, 2024

APPROVED CONFIGURATION DOORS

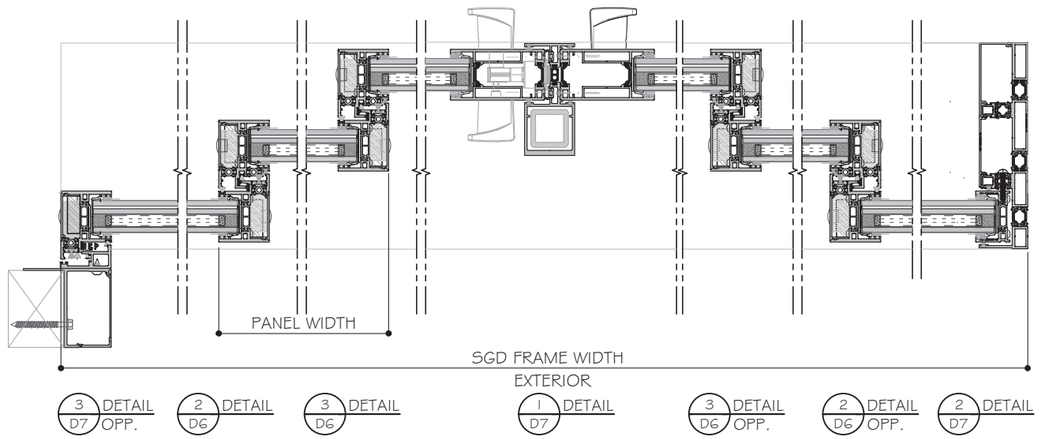
(INTERLOCK OPTION LEVEL 1 SHOWN)

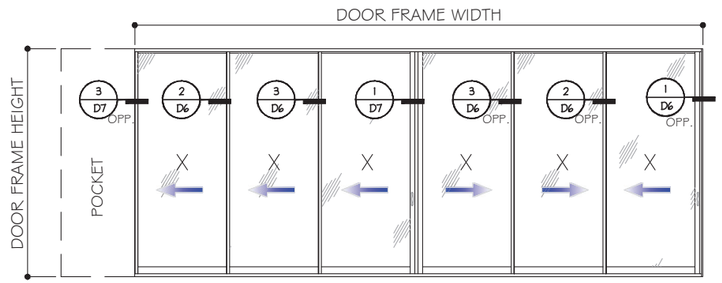
SEE SHEET G1 & G2 FOR Dp AND INTERLOCK OPTIONS



THREE (3) TRACKS

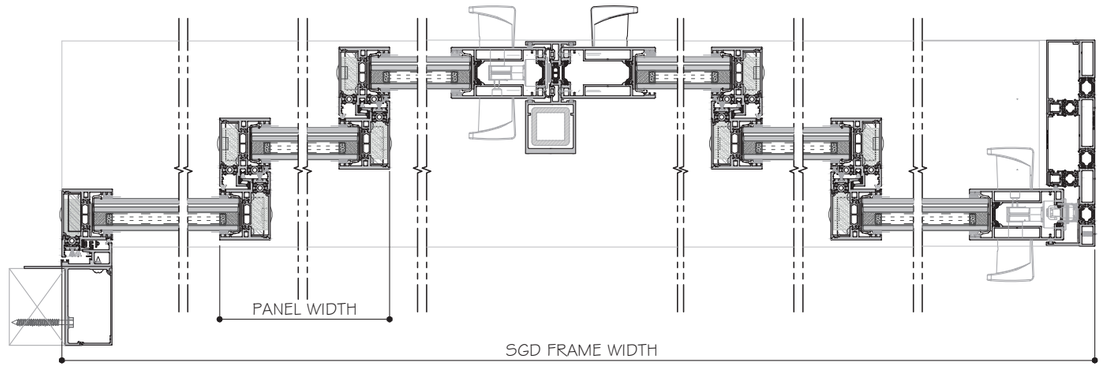
PXXXXXO (SHOWN)
OXXXXXP

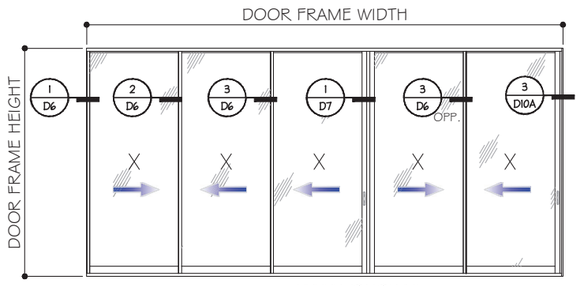




THREE (3) TRACKS

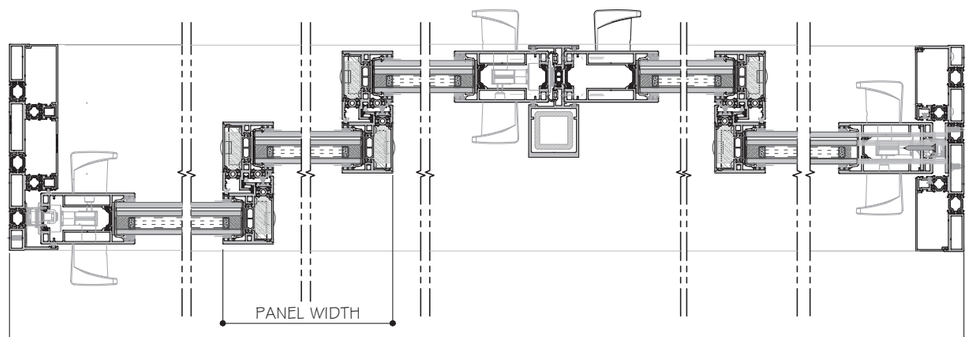
PXXXXXX (SHOWN)
XXXXXXP
XXXXXX





THREE (3) TRACKS

XXXXX (SHOWN)
OXXXX



NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G2 FOR GLASS AND INTERLOCK OPTIONS.
3. FOR ALLOWABLE DESIGN PRESSURES OF SGD SEE SHEET G1 BASED ON INTERLOCK LEVEL 1, 2,2R, 3 OR 4 & GLASS OPTIONS,
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1&A2 AND LAYOUT SEE SHEET E1 TO E4.
5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

NOTES:

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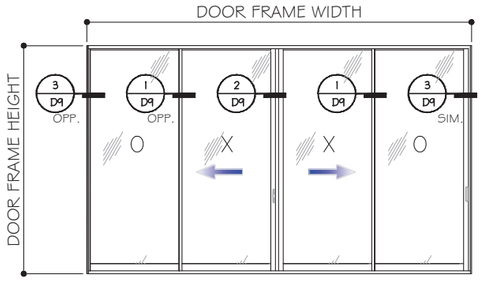
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Sheet No.
09 OF 35

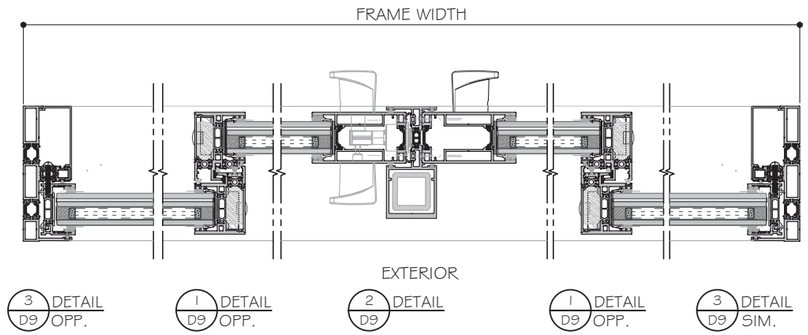
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FLORIDA REGISTRATION
P.E. #55983
C.A.N. 28677
STATE OF FLORIDA PROFESSIONAL ENGINEER
December 19th, 2024

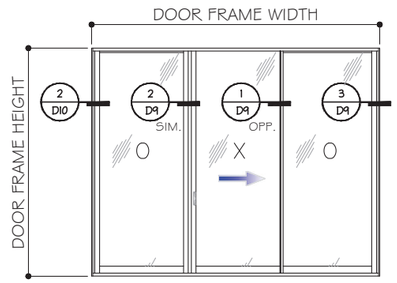
APPROVED CONFIGURATION DOORS

(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET G1 & G2 FOR Dp AND INTERLOCK OPTIONS

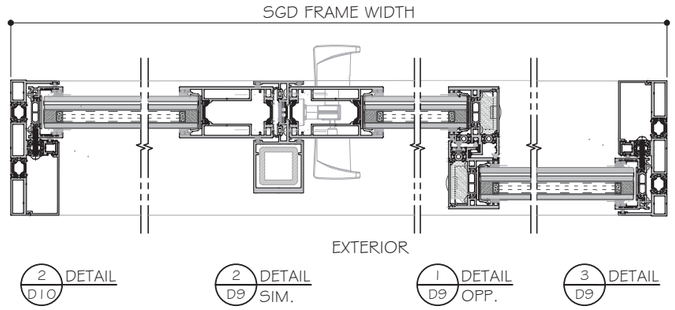


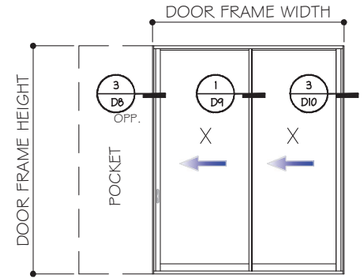
TWO (2) TRACKS OXXO (SHOWN)
XXXX (SIMILAR)



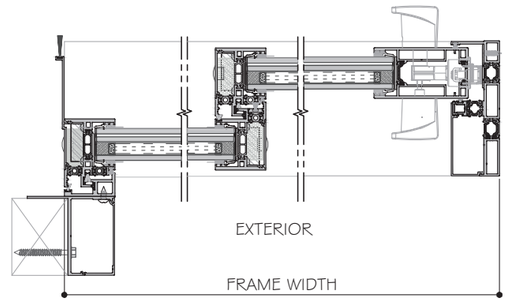


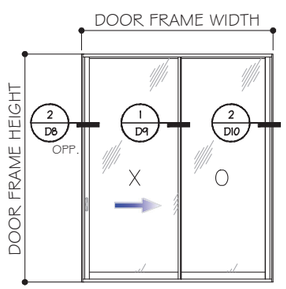
TWO (2) TRACKS OXO (SHOWN)
OXO (REVERSE)



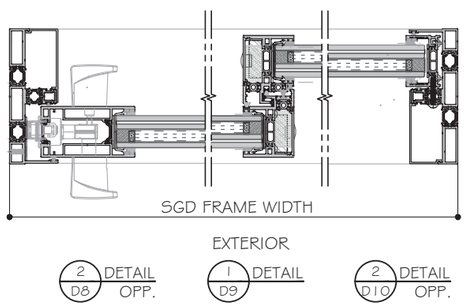


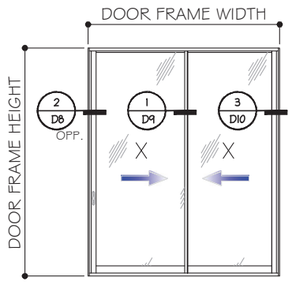
TWO (2) TRACKS PXX (SHOWN)
XXP (REVERSE)



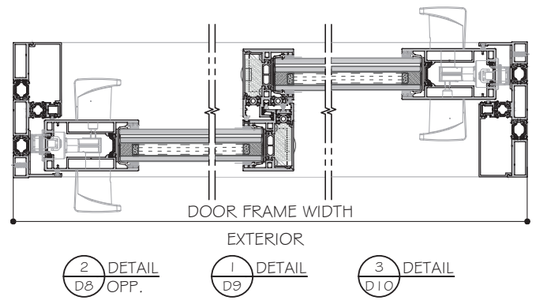


XO (SHOWN)
OX
TWO (2) TRACKS





XX
TWO (2) TRACKS



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FLORIDA REGISTRATION
LIC. #55983
C.A.N. 28577

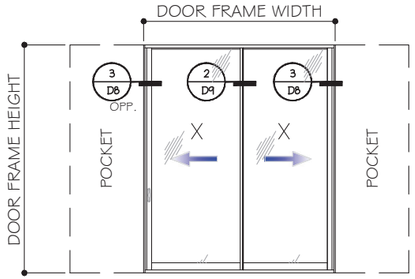
STATE OF FLORIDA PROFESSIONAL ENGINEER
No 55983

December 19th, 2024

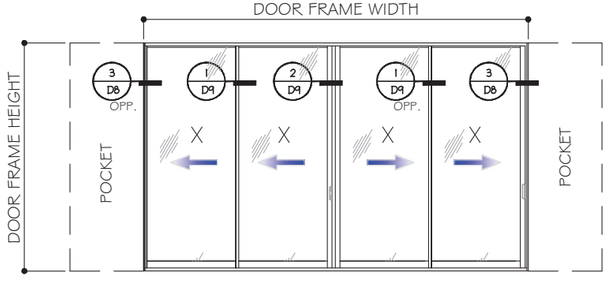
APPROVED CONFIGURATION DOORS

(INTERLOCK OPTION LEVEL 1 SHOWN)

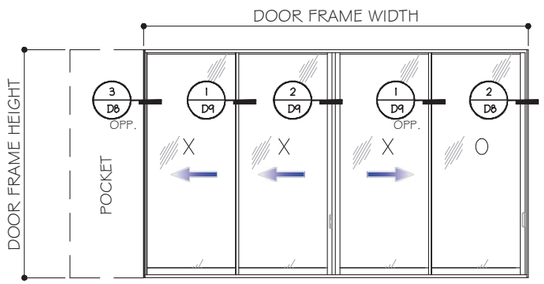
SEE SHEET G1 & G2 FOR Dp AND INTERLOCK OPTIONS



TWO (2) TRACKS PXXP

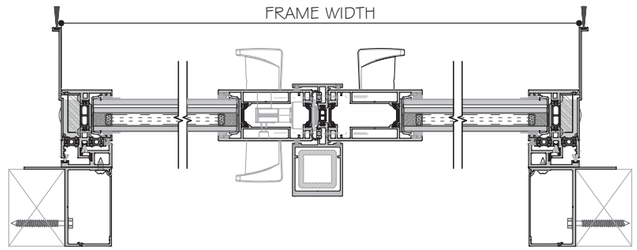


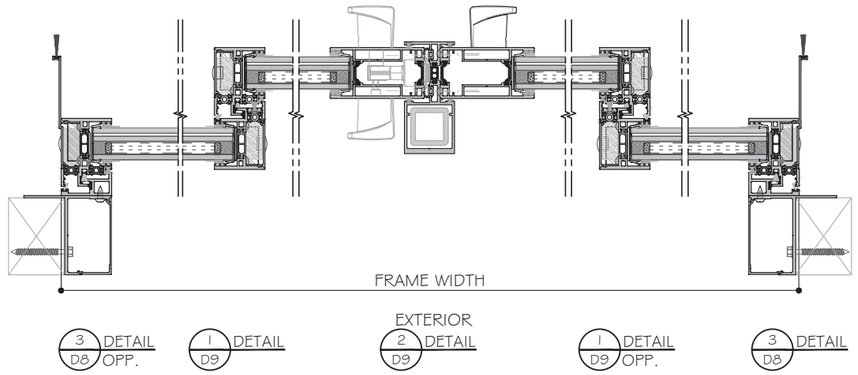
TWO (2) TRACKS PXXXXP

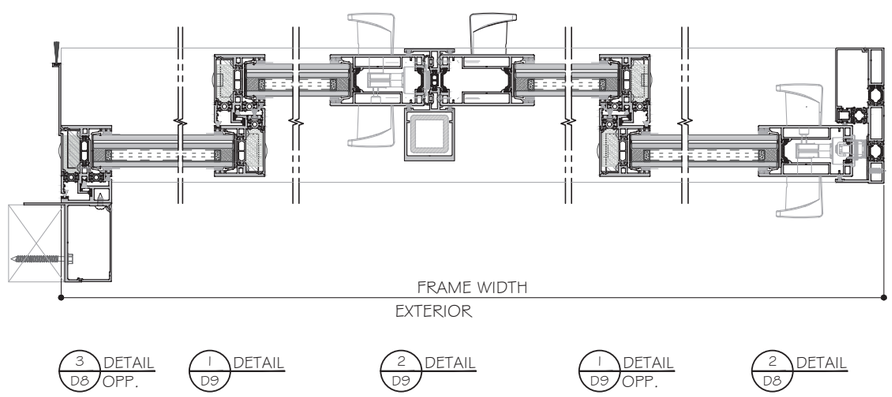


TWO (2) TRACKS

PXXX (SHOWN)
XXXP (REVERSE)
PXXO
OXXXP







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NOTES:

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YIPING WANG, P.E.
STATE OF FLORIDA REGISTRATION
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STATE OF FLORIDA PROFESSIONAL ENGINEER
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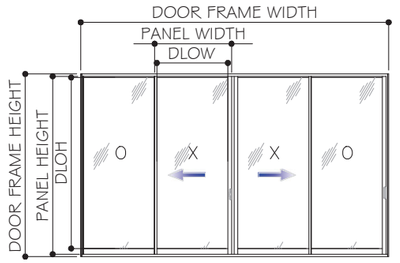
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SLIDING GLASS DOOR CAPACITY (PSF)

SGD SIZE		GLASS TYPE G1 & G4 (LMI)						GLASS TYPE G3 (SMI)					
PANEL WIDTH	PANEL HEIGHT	LEVEL 1	LEVEL 2	LEVEL 2R	LEVEL 3	LEVEL 4	LEVEL 4	LEVEL 1	LEVEL 2	LEVEL 2R	LEVEL 3	LEVEL 4	LEVEL 4
		STD INTERLOCK W/ REINF.	HALF BELLY INTERLOCK W/O REINF.	HALF BELLY INTERLOCK W/ REINF.	BELLY INTERLOCK W/O REINF.	BELLY INTERLOCK W/ REINF.	90° & 135° CORNERS	STD INTERLOCK W/ REINF.	HALF BELLY INTERLOCK W/O REINF.	HALF BELLY INTERLOCK W/ REINF.	BELLY INTERLOCK W/O REINF.	BELLY INTERLOCK W/ REINF.	90° & 135° CORNERS
(in.)	(in.)	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf
36	102	50	65	115	115	115	115	50	65	105	105	105	105
42	102	50	65	115	115	115	115	50	65	105	105	105	105
48	102	50	65	115	115	115	115	50	65	105	105	105	105
54	102	50	65	85	95	105	105	50	65	85	95	105	105
60	102	50	65	85	95	100	100	50	65	85	95	105	105
66	102	50	65	85	95	90	90	50	65	85	95	105	105
72	102	50	65	85	95	80	80	50	65	85	95	105	105
36	108	50	65	115	115	115	115	50	65	105	105	105	105
42	108	50	65	115	115	115	115	50	65	105	105	105	105
48	108	50	65	115	115	115	115	50	65	105	105	105	105
54	108	50	65	85	95	105	105	50	65	85	95	105	105
60	108	50	65	85	95	100	100	50	65	85	95	105	105
66	108	50	65	85	95	90	90	50	65	85	95	105	105
72	108	40	65	85	95	80	80	40	65	85	95	105	105
36	114	50	65	85	95	105	105	50	65	85	95	105	105
42	114	50	65	85	95	105	105	50	65	85	95	105	105
48	114	50	65	85	95	105	105	50	65	85	95	105	105
54	114	50	65	85	95	105	105	50	65	85	95	105	105
60	114	50	65	85	95	100	100	50	65	85	95	105	105
66	114	50	65	85	95	90	90	50	65	85	95	105	105
36	120	50	65	85	95	105	105	50	65	85	95	105	105
42	120	50	65	85	95	105	105	50	65	85	95	105	105
48	120	50	65	85	95	105	105	50	65	85	95	105	105
54	120	50	65	85	95	105	105	50	65	85	95	105	105
60	120	50	65	85	95	100	100	50	65	85	95	105	105
66	120	40	65	85	95	90	90	40	65	85	95	101	101
36	126	50	65	85	95	105	105	50	65	85	95	105	105
42	126	50	65	85	95	105	105	50	65	85	95	105	105
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54	126	50	65	85	95	105	105	50	65	85	95	105	105
60	126	50	65	85	95	100	100	50	65	85	95	104	104
36	129.3	50	65	85	95	105	105	50	65	85	95	105	105
42	129.3	50	65	85	95	105	105	50	65	85	95	105	105
48	129.3	50	65	85	95	105	105	50	65	85	95	105	105
54	129.3	50	65	85	95	105	105	50	65	85	95	105	105
60	129.3	50	65	85	95	100	100	50	65	85	95	102	102
36	132	40	65	85	95	105	105	40	65	85	95	105	105
42	132	40	65	85	95	105	105	40	65	85	95	105	105
48	132	40	65	85	95	105	105	40	65	85	95	105	105
54	132	40	65	85	95	105	105	40	65	85	95	105	105
60	132	40	65	85	95	100	100	40	65	85	95	100	100

SLIDING GLASS DOOR CAPACITY (PSF)

SGD SIZE		GLASS TYPE G2 (LMI)			
PANEL WIDTH	PANEL HEIGHT	LEVEL 1	LEVEL 2	LEVEL 2R	LEVEL 4
		STD INTERLOCK W/ REINF.	HALF BELLY INTERLOCK W/O REINF.	HALF BELLY INTERLOCK W/ REINF.	90° & 135° CORNERS
(in.)	(in.)	(+/-)psf	(+/-)psf	(+/-)psf	(+/-)psf
36	102	50	65	80	80
42	102	50	65	80	80
48	102	50	65	80	80
36	108	50	65	80	80
42	108	50	65	80	80
48	108	50	65	80	80
36	114	50	65	80	80
42	114	50	65	80	80
36	120	50	65	80	80
42	120	50	65	80	80
36	126	50	65	80	80
36	129.3	50	65	80	80
36	132	50	65	80	80



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

PANEL HEIGHT = F.H. - 2 11/16"

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ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

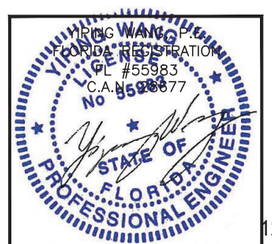
ES WINDOWS, INC.
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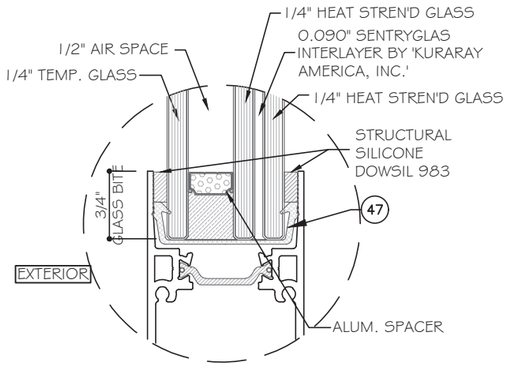
Rev. No.	Date	Drawn By	Description
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G1

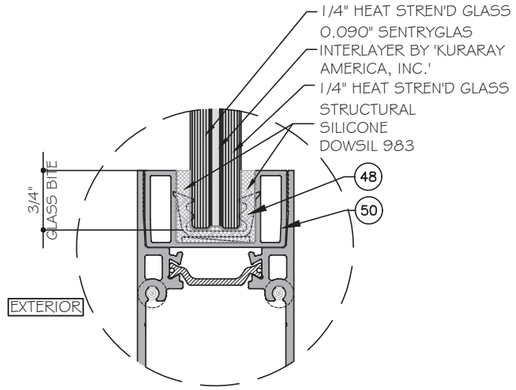
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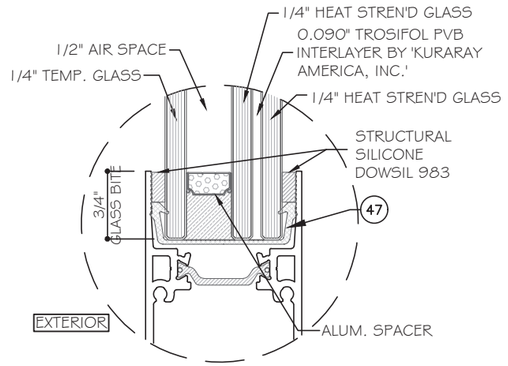
GLASS TYPE 'G1' (LMI)

1 5/16" NOMINAL OVERALL



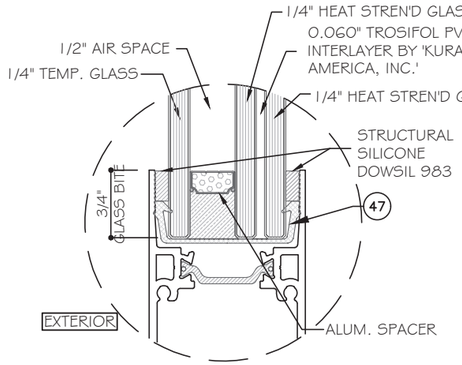
GLASS TYPE 'G4' (LMI)

9/16" NOMINAL OVERALL



GLASS TYPE 'G2' (LMI)

1 5/16" NOMINAL OVERALL



GLASS TYPE 'G3' (SMI ONLY)

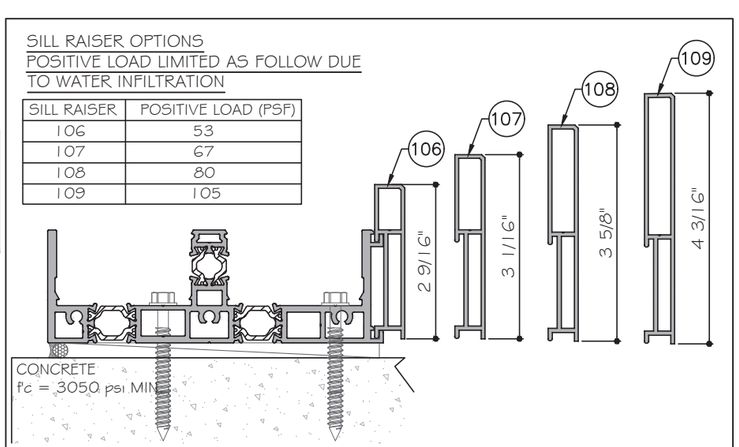
1 5/16" NOMINAL OVERALL

NOTE:
PART 47 & 50 USED AS SETTING BLOCK.
GLASS BITE APPLY TO ENTIRE SYSTEM.

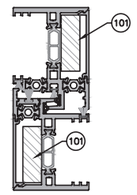
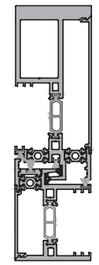
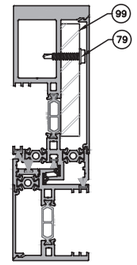
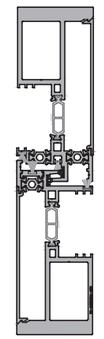
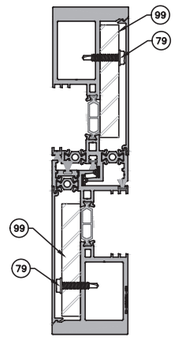
NOTE:
GLASS COMPLIES WITH ASTM E1300-16 (3 SEC. GUSTS). GLASS G1&G2&G4 COMPLY WITH ANSI Z97.1

SILL RAISER OPTIONS
POSITIVE LOAD LIMITED AS FOLLOW DUE TO WATER INFILTRATION

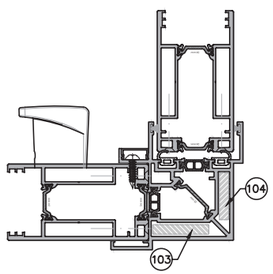
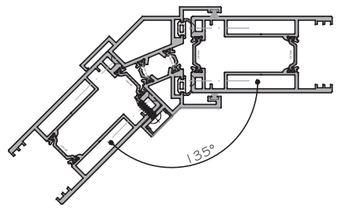
SILL RAISER	POSITIVE LOAD (PSF)
106	53
107	67
108	80
109	105



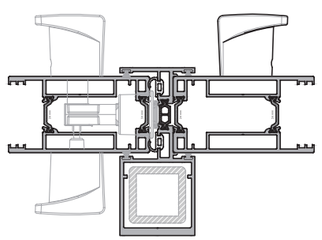
INTERLOCK OPTIONS

LEVEL 1 STD. INTERLOCKS W/ REINF.	LEVEL 2 HALF BELLY INTERLOCK	LEVEL 2R HALF BELLY INTERLOCK W/REINF.	LEVEL 3 BELLY INTERLOCK	LEVEL 4 BELLY INTERLOCKS W/ REINF.
				

CORNER OPTIONS

LEVEL 4 90 DEGREE CORNER	LEVEL 4 135 DEGREE CORNER
	

ASTRAGAL FOR ALL LEVELS



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ES-SGD2020T 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
R3	08.29.2024	James	revision

Drawn Date: 08.29.2024
Scale:

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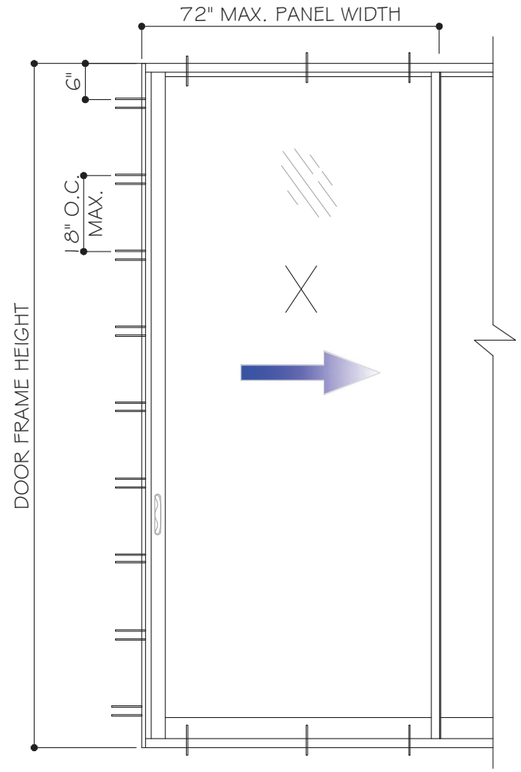
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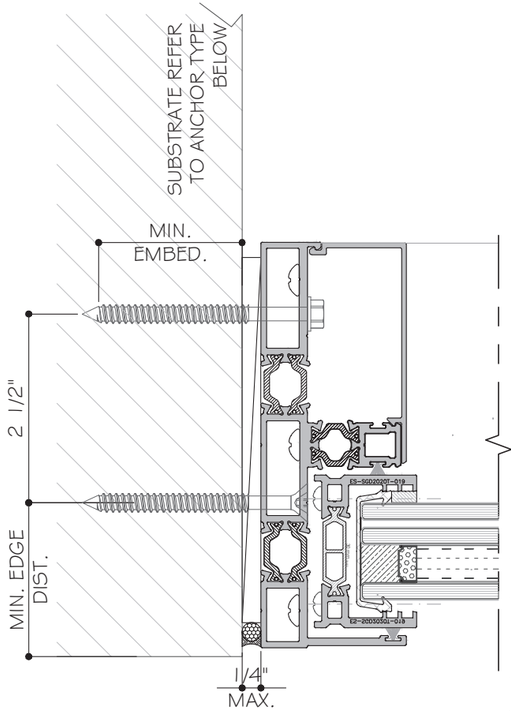
Sheet No.
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YIPING WANG, P.E.
FLORIDA REGISTRATION
LICENSE #55983
C.A.N. 33677

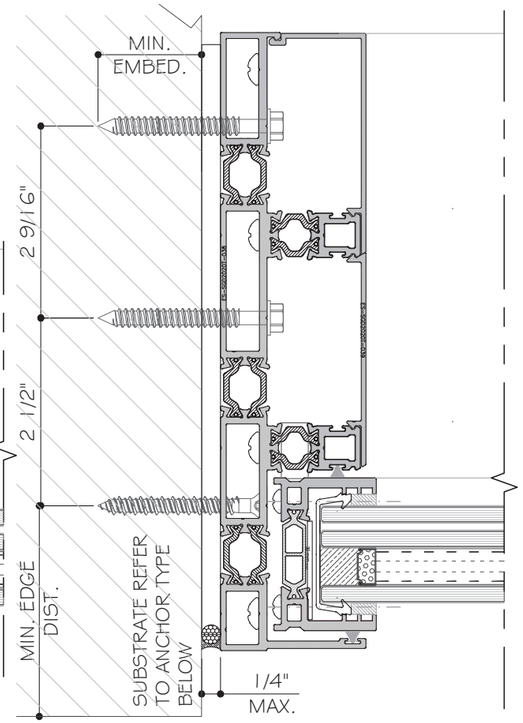
STATE OF FLORIDA PROFESSIONAL ENGINEER No 55983

December 19th, 2024

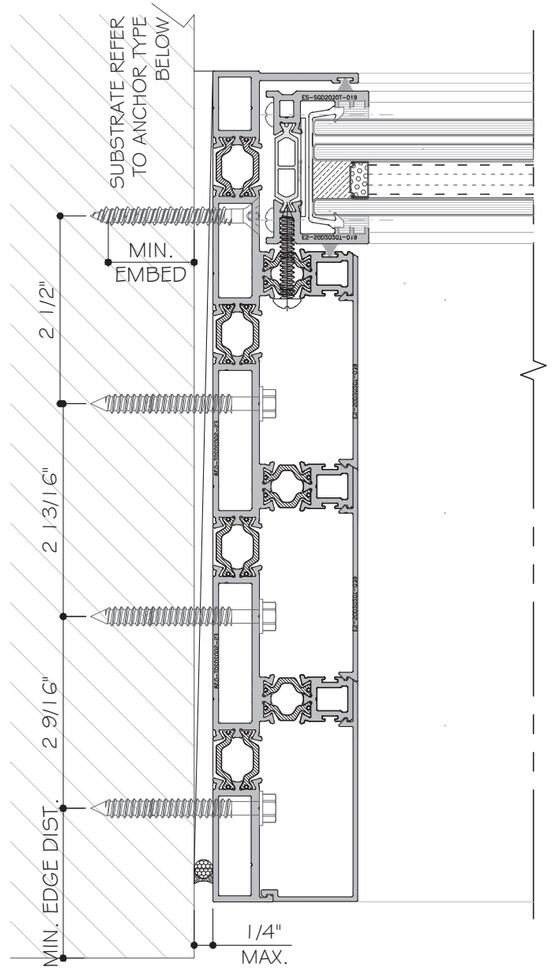




2 TRACK SGD



3 TRACK SGD



4 TRACK SGD

TYPICAL JAMB ANCHOR TYPES:

TYPE "A": 1/4" ULTRACON+ BY DEWALT (Fu= 164 KSI, Fy= 148 KSI)
1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
OR THRU. WOOD INTO CONCRETE OR MASONRY
W/ 1 3/4" MIN. EMBED INTO CONCRETE
OR 1 1/4" MIN. EMBED INTO HOLLOW BLOCK
OR 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK

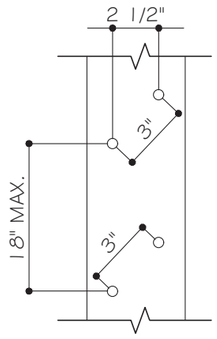
TYPE "B": 1/4" ULTRACON+ BY DEWALT (Fu= 164 KSI, Fy= 148 KSI)
1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE
OR 1 1/4" MIN. EMBED INTO HOLLOW BLOCK
OR 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK

TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 (Fu= 120 KSI, Fy=92 KSI)
INTO METAL STRUCTURE
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
STEEL: 3/16" THK. MIN. (Fy=36KSI, MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

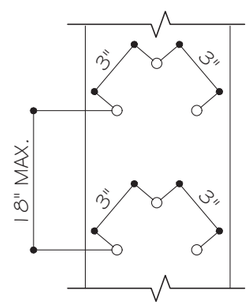
MIN. EDGE DISTANCE:
INTO CONCRETE OR MASONRY: 2 1/2" MIN.
INTO WOOD: 1" MIN.
INTO METAL: 1/2" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c=3050 psi MIN.
C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY f'm=2000psi MIN.
WOOD: SG=0.55 MIN.

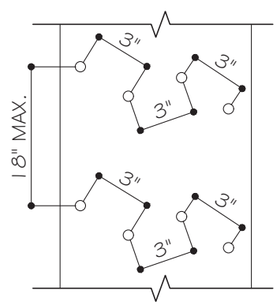
NOTE: METAL STRUCTURES AND WOOD BUCKS NOT BY ES WINDOWS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN THE IMPOSED LOADS FROM SLIDING GLASS DOOR.



2 TRACK SGD



3 TRACK SGD



4 TRACK SGD

TYPICAL ANCHOR SPACING: @3" O.C.



MCY ENGINEERING, INC.
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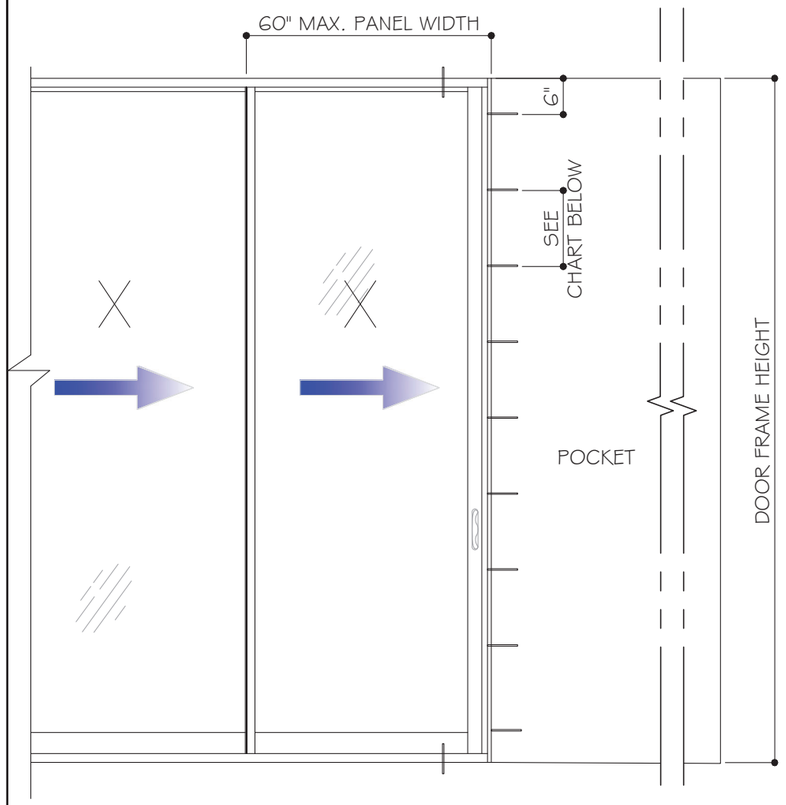
Rev. No.	Date	Drawn By	Description
R3	08.29.2024	James	revision

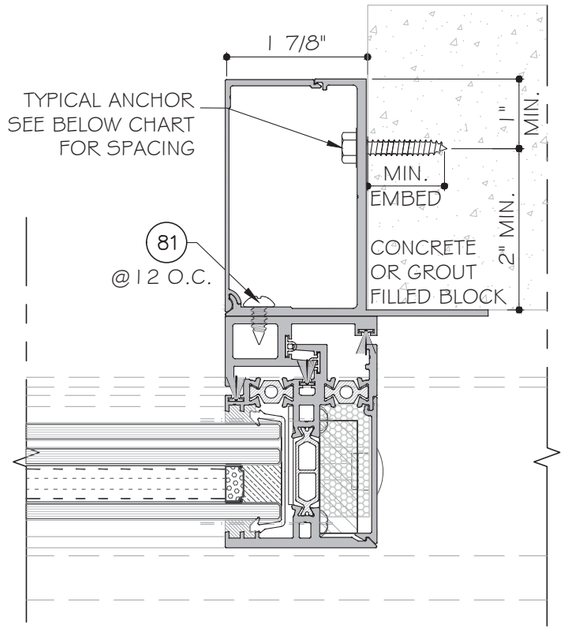
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Scale

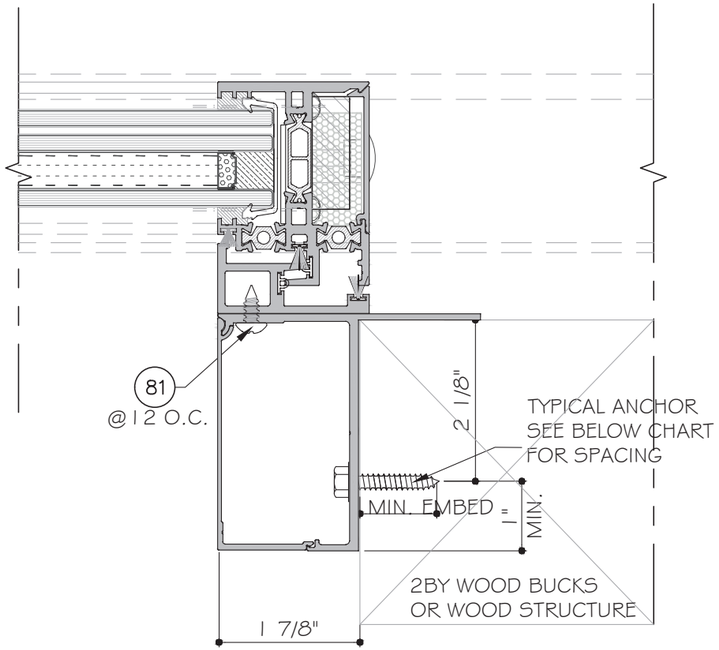
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AD21-56

J1

Sheet No.
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NOTE: METAL STRUCTURES AND WOOD BUCKS NOT BY ES WINDOWS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN THE IMPOSED LOADS FROM SLIDING GLASS DOOR.

POCKET JAMB ANCHOR TYPES:

TYPE "A": 1/4" ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 1/2" MIN. PENETRATION INTO 2X WOOD BUCK OR WOOD STRUCTURE OR THRU. WOOD INTO CONCRETE OR GROUT FILLED BLOCK.
1 3/4" MIN. EMBED INTO CONCRETE.
2 1/4" MIN. EMBED INTO GROUT FILLED BLOCK.

TYPE "B": 1/4" ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE.
OR 2 1/4" MIN. EMBED INTO GROUT FILLED BLOCK.

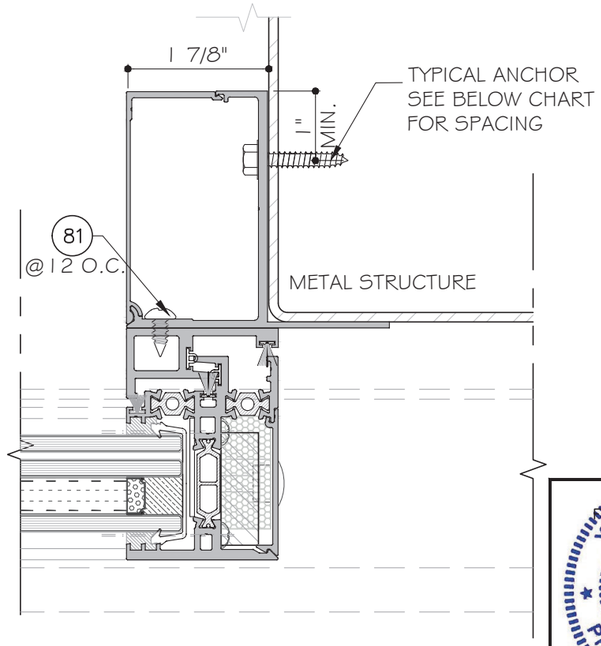
TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI) INTO METAL STRUCTURE

ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN.)
STEEL: 3/16" THK. MIN. (Fy=36KSI, MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

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

CONCRETE AT HEAD, SILL OR JAMBS f'c=3050 psi MIN.
GROUT FILLED BLOCK AT JAMB ONLY f'm=2000psi MIN.
WOOD: SG=0.55 MIN.

POCKET JAMB ANCHOR CHART				
ANCHOR TYPE	SUBSTRATE	PANEL SPACING	SPACING	Pd(PSF)
A	WOOD	48	6	105
		54	6	105
		60	6	105
B	CONCRETE	48	12	90.2
		54	12	80.2
		60	12	72.2
B	CONCRETE	54	8	105
		60	8	105
B	GROUT FILLED BLOCK	48	8	105
		54	8	104
		60	8	93.6
C	ALUM.	54	12	105
		60	12	102.1
C	STEEL	60	12	103.7



YIMING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
December 19th, 2024

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12781 MIRAMAR PARKWAY #301
MIRAMAR, FL. 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

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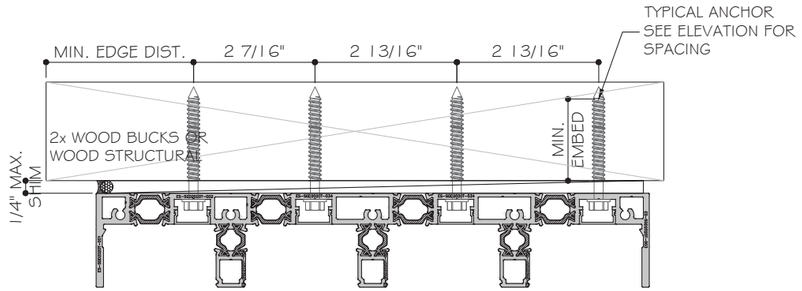
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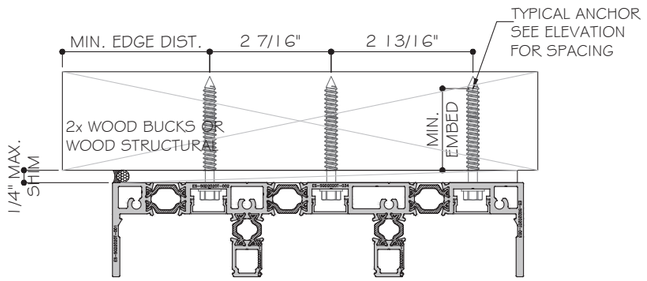
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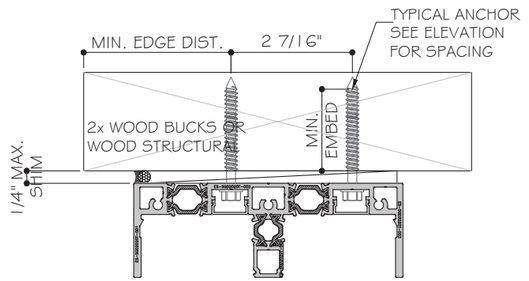
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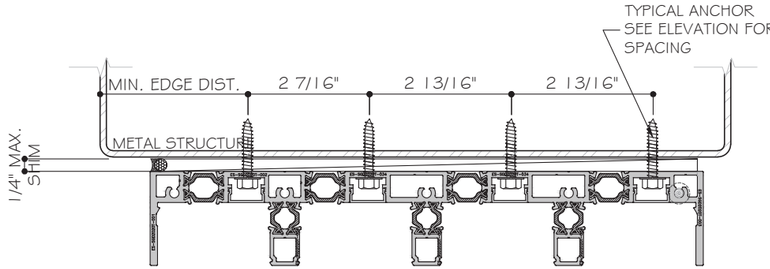
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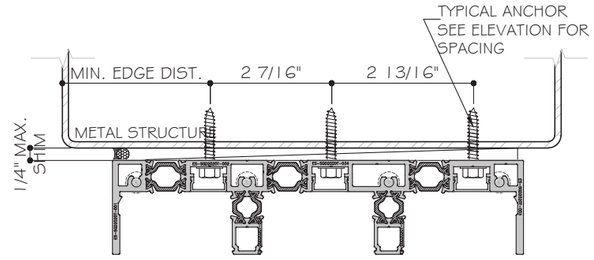
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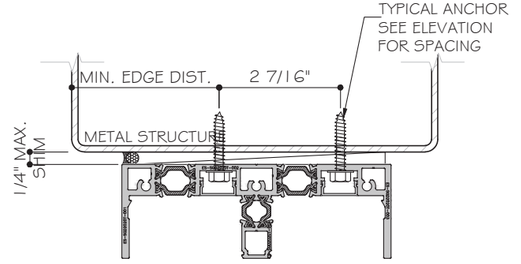


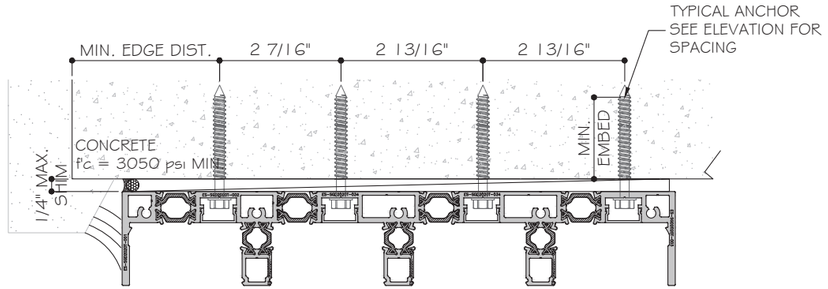




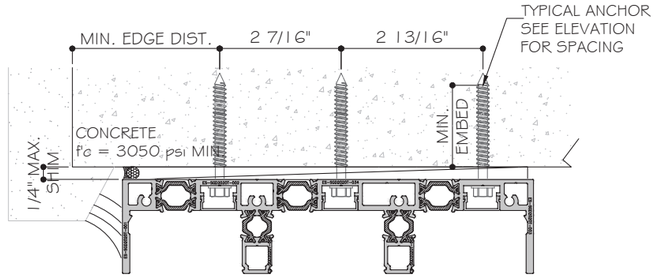




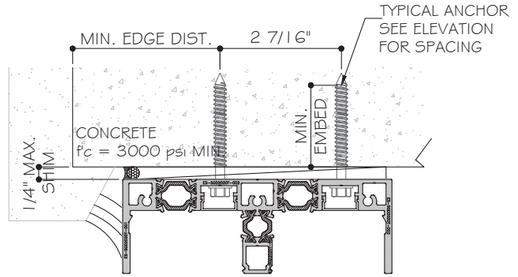




4 TRACK SGD



3 TRACK SGD



2 TRACK SGD

TYPICAL ANCHOR TYPES @ HEAD & SILL:

TYPE "A": 1/4" ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES OR THRU. WOOD INTO CONCRETE W/ 1 3/4" MIN. EMBEDMENT.

TYPE "B": 1/4" ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 3/4" MIN. EMBED DIRECTLY INTO f'c=3050 psi MIN. CONCRETE.

TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURE
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
STEEL: 3/16" THK. MIN. (Fy=36KSI, MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

TYPICAL ANCHOR SPACING: 3" O.C.
MIN. EDGE DISTANCE:
INTO CONCRETE: 2 1/2" MIN.
INTO WOOD: 1" MIN.
INTO METAL: 1/2" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c=3050 psi MIN.
WOOD: SG=0.55 MIN.

NOTE: METAL STRUCTURES AND WOOD BUCKS NOT BY ES WINDOWS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN THE IMPOSED LOADS FROM SLIDING GLASS DOOR.

YIPING WANG, P.E.
FLORIDA REGISTRATION
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C.A.N. 28877
No 55983
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December 19th, 2024

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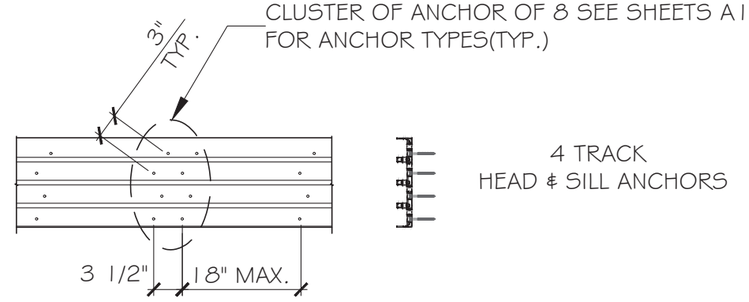
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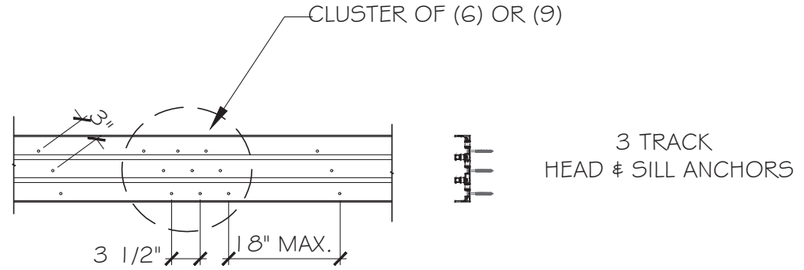
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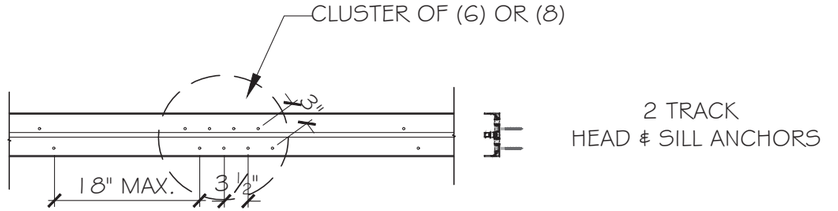
Sheet No.
16 OF 35

HEAD & SILL ANCHOR LOAD CAPACITY CHART - PSF

PANEL WIDTH (INCH)	PANEL HEIGHT (INCH)	ANCHOR TYPES (1/4" SHIM)						
		A6	A8	A9	A10	B6	B8/B9	C6/C8
		+/-	+/-	+/-	+/-	+/-	+/-	+/-
42	96	108	115	115	115	115	115	115
48		94	115	115	115	115	115	115
54		84	105	105	105	105	105	105
60		75	100	105	105	105	105	105
66		68	91	103	105	105	105	105
72		63	84	94	105	105	105	105
42	102	101	115	115	115	115	115	115
48		89	115	115	115	115	115	115
54		79	105	105	105	105	105	105
60		71	95	105	105	105	105	105
66		65	86	97	105	105	105	105
72		59	79	89	99	100	105	105
42	108	96	115	115	115	115	115	115
48		84	112	115	115	115	115	115
54		75	99	105	105	105	105	105
60		67	90	101	105	105	105	105
66		61	81	92	102	103	105	105
72		56	75	84	93	94	105	105
42	114	91	105	105	105	105	105	105
48		80	105	105	105	105	105	105
54		71	94	105	105	105	105	105
60		64	85	96	105	105	105	105
66		58	77	87	96	98	105	105
42	120	87	105	105	105	105	105	105
48		76	101	105	105	105	105	105
54		67	90	101	105	105	105	105
60		61	81	91	101	102	105	105
66		55	73	83	92	93	105	105
42	126	82	105	105	105	105	105	105
48		72	96	105	105	105	105	105
54		64	86	96	105	105	105	105
60		58	77	87	96	97	105	105
42	129.3	80	105	105	105	105	105	105
48		70	94	105	105	105	105	105
54		63	83	94	104	105	105	105
60		56	75	84	94	95	105	105
42	132	79	105	105	105	105	105	105
48		69	92	103	105	105	105	105
54		61	82	92	102	103	105	105
60		55	74	83	92	93	105	105







A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT INTERLOCK OR ASTRAGAL.
A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT INTERLOCK OR ASTRAGAL.
A9 - A CLUSTER OF (9) TYPE "A" ANCHORS AT INTERLOCK OR ASTRAGAL.
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT INTERLOCK OR ASTRAGAL.
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT INTERLOCK OR ASTRAGAL.
C6 - A CLUSTER OF (6) TYPE "C" ANCHORS AT INTERLOCK OR ASTRAGAL.

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

PANEL HEIGHT = F.H. - 2 11/16"

YIPING WANG
FLORIDA REGISTRATION
LICENSE
No 55983
LIC #55983
C.A.N. 0026677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
December 19th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
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www.MCYEngineering.com mcy@mcyengineering.com

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TEL. (305) 624-7775

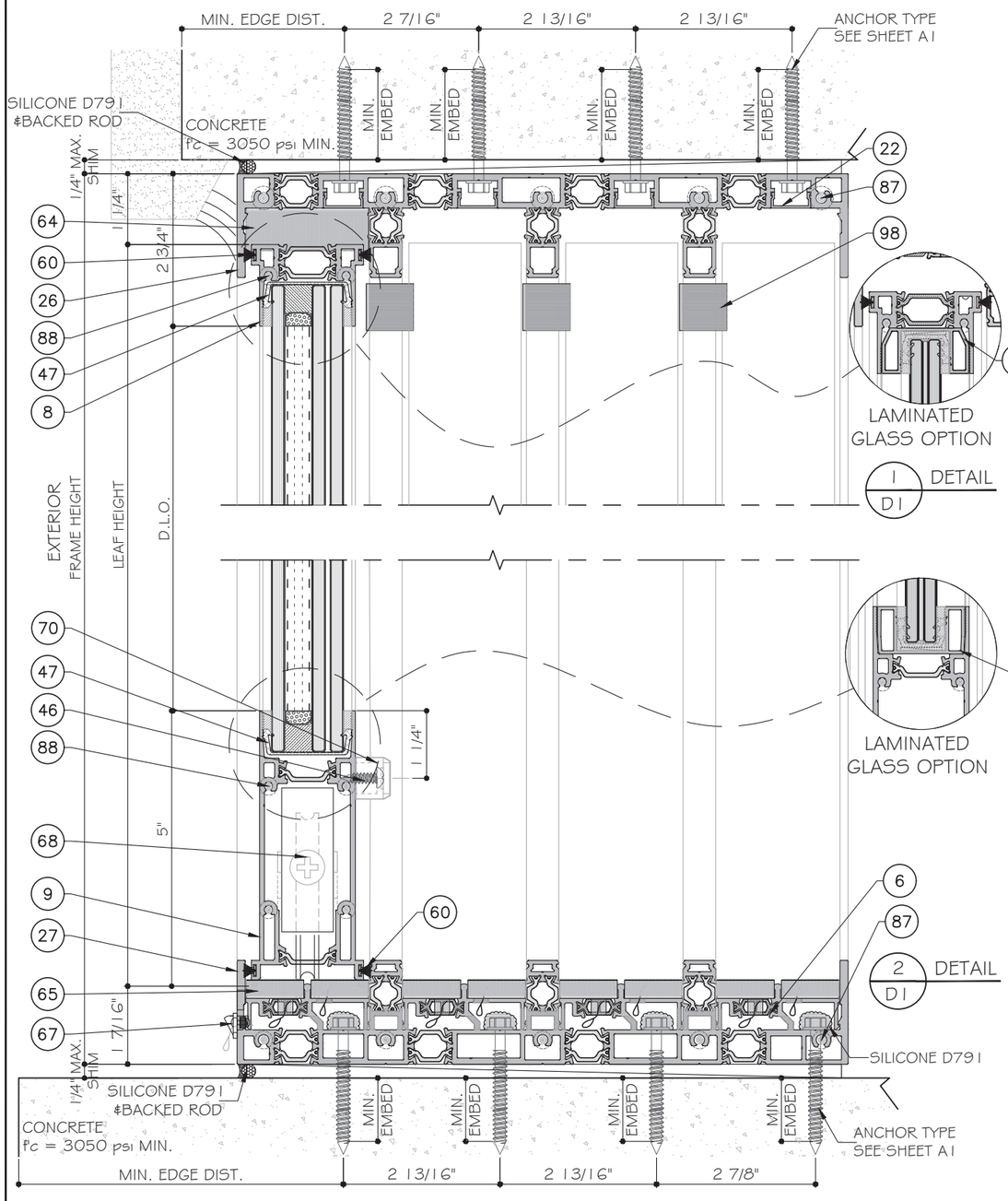
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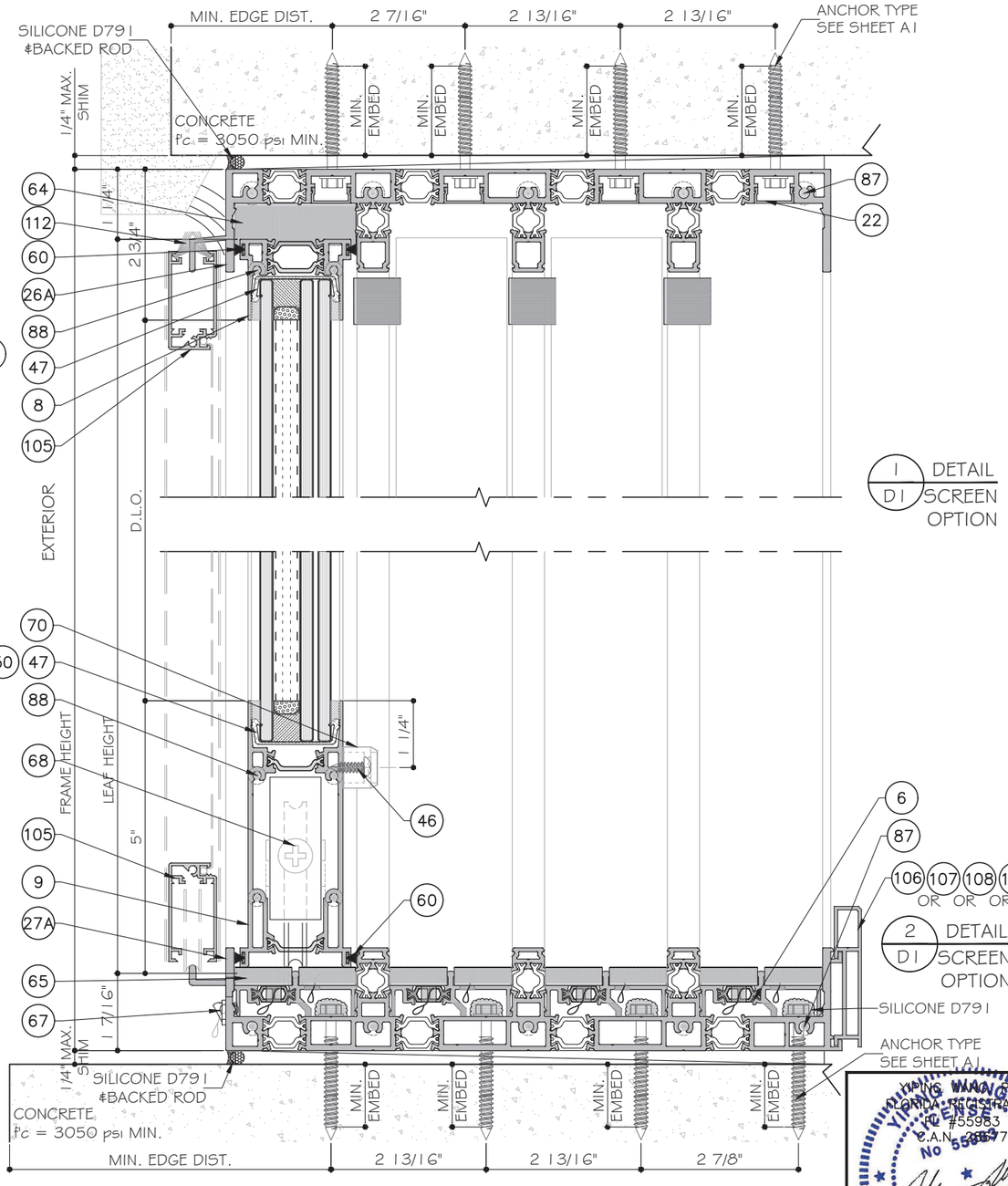
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AD21-56

A2

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17 OF 35





FOUR (4) TRACK DOOR DETAILS

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Drawn Date 09.14.2023

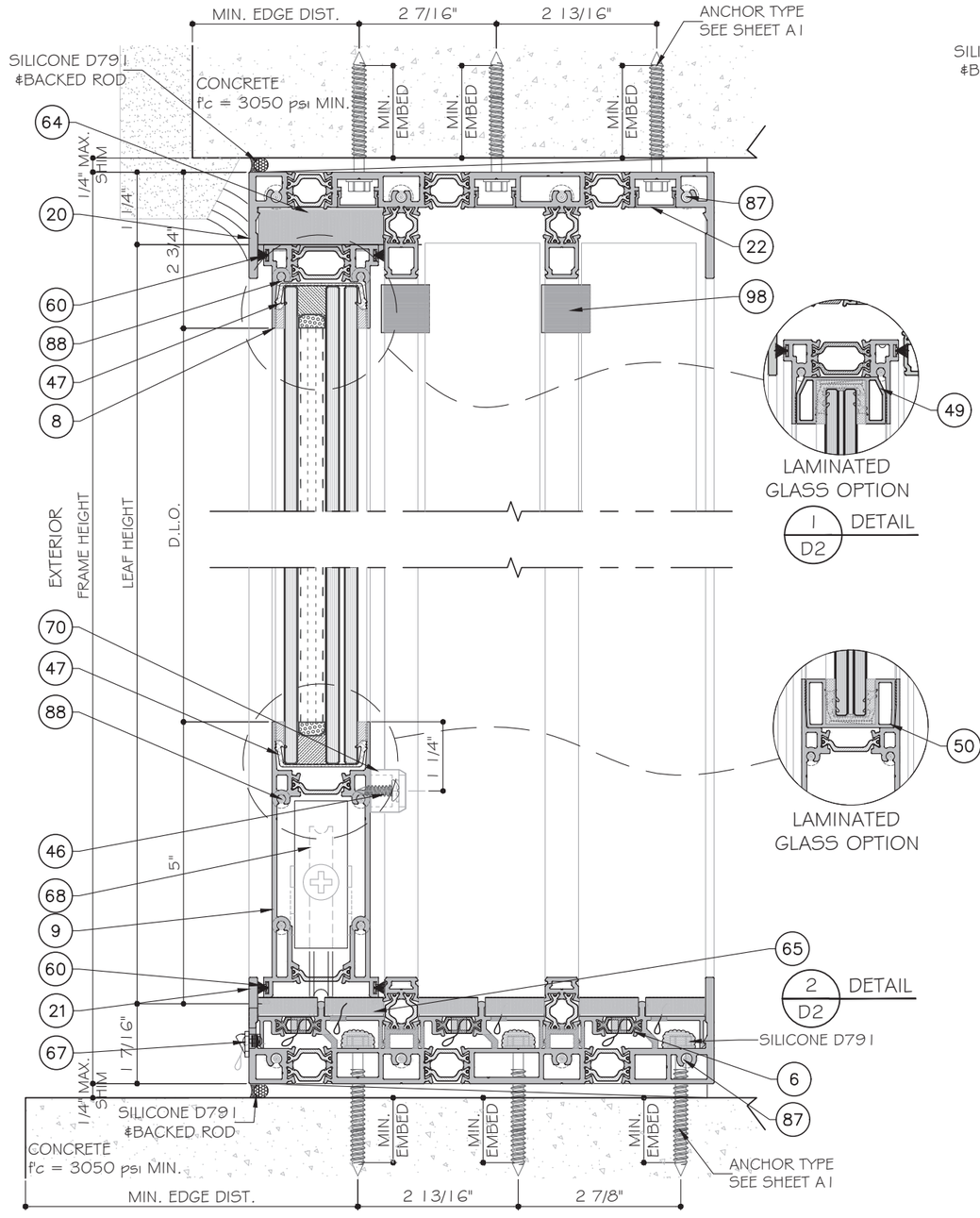
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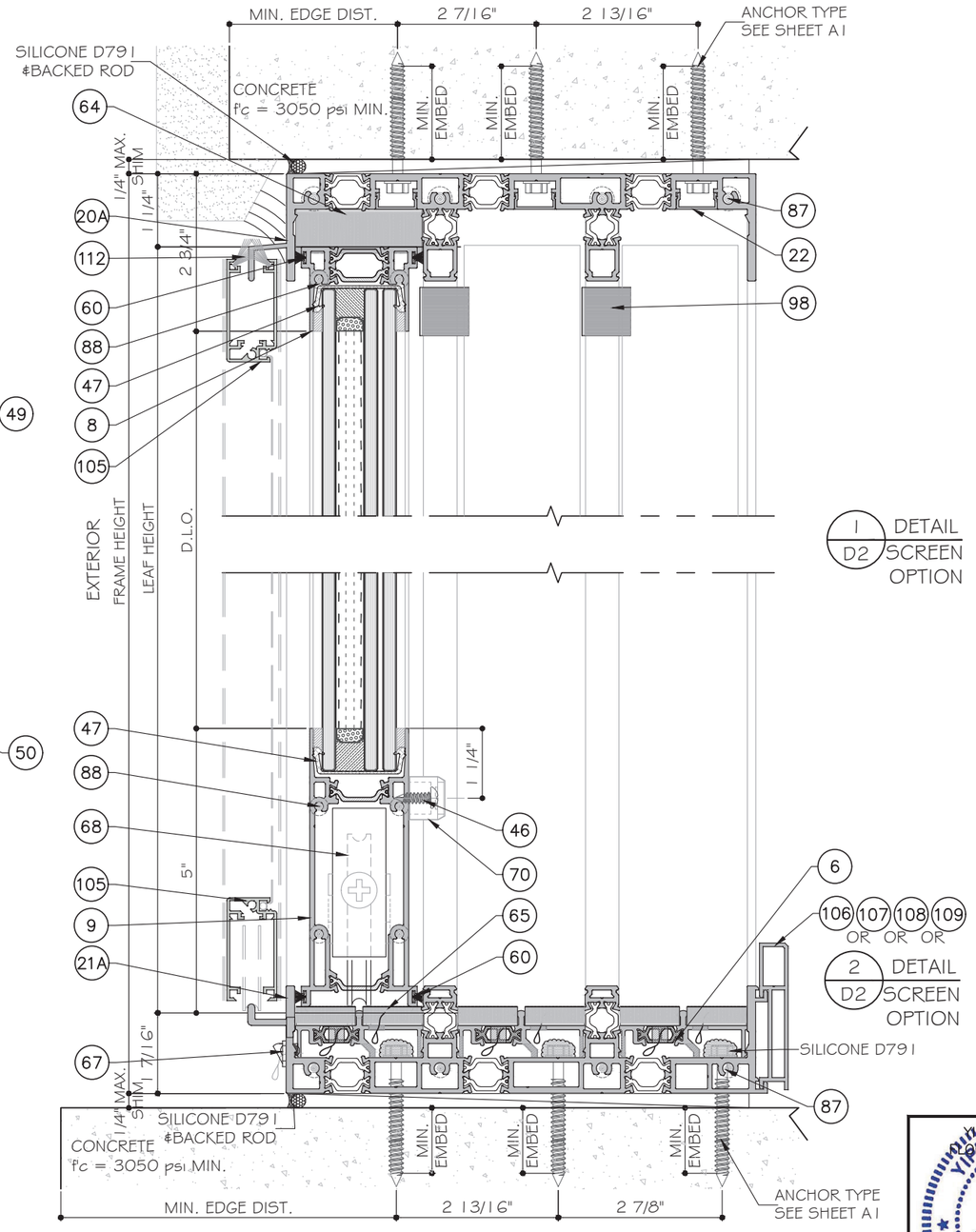
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D1

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THREE (3) TRACK DOOR DETAILS

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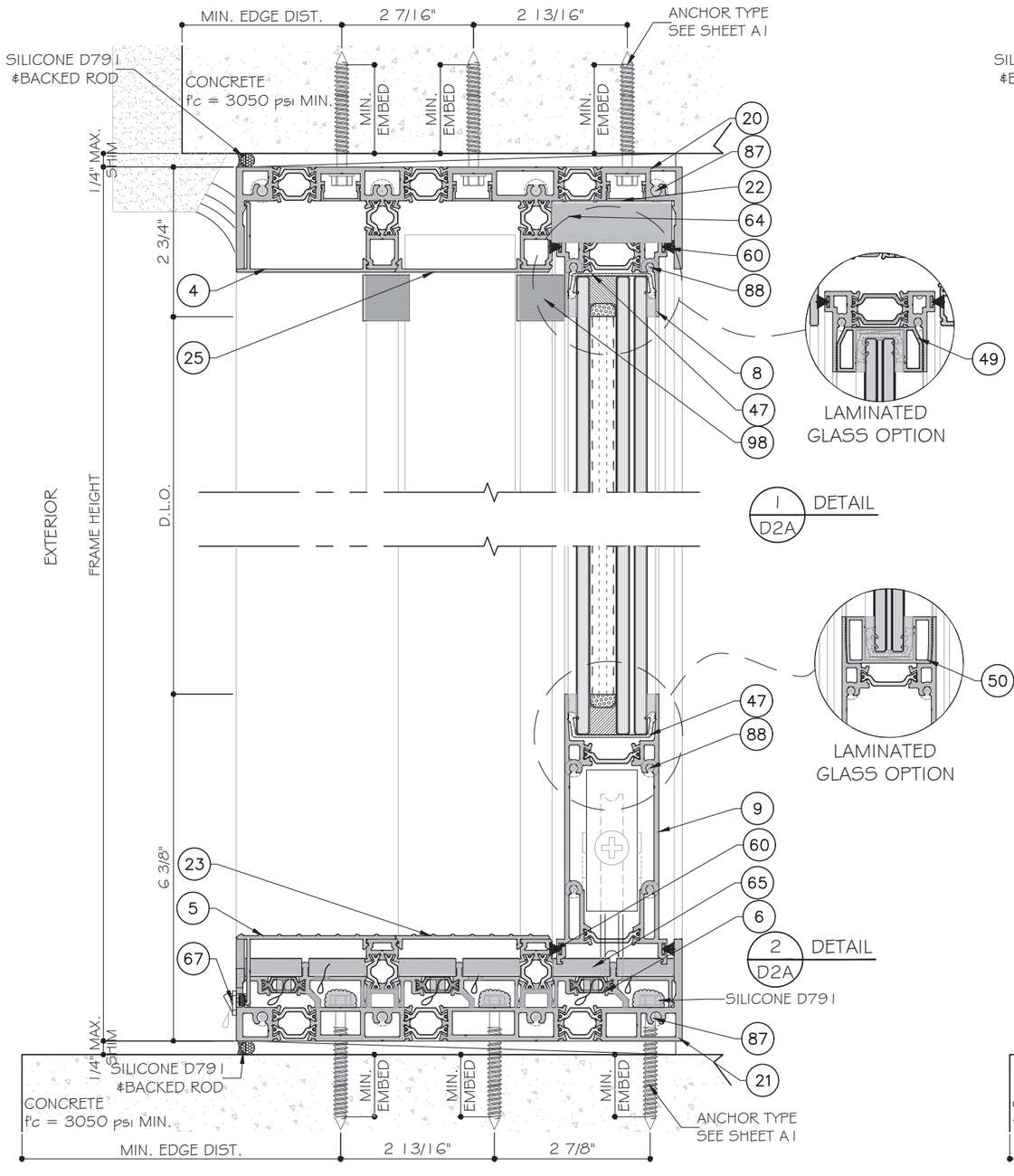
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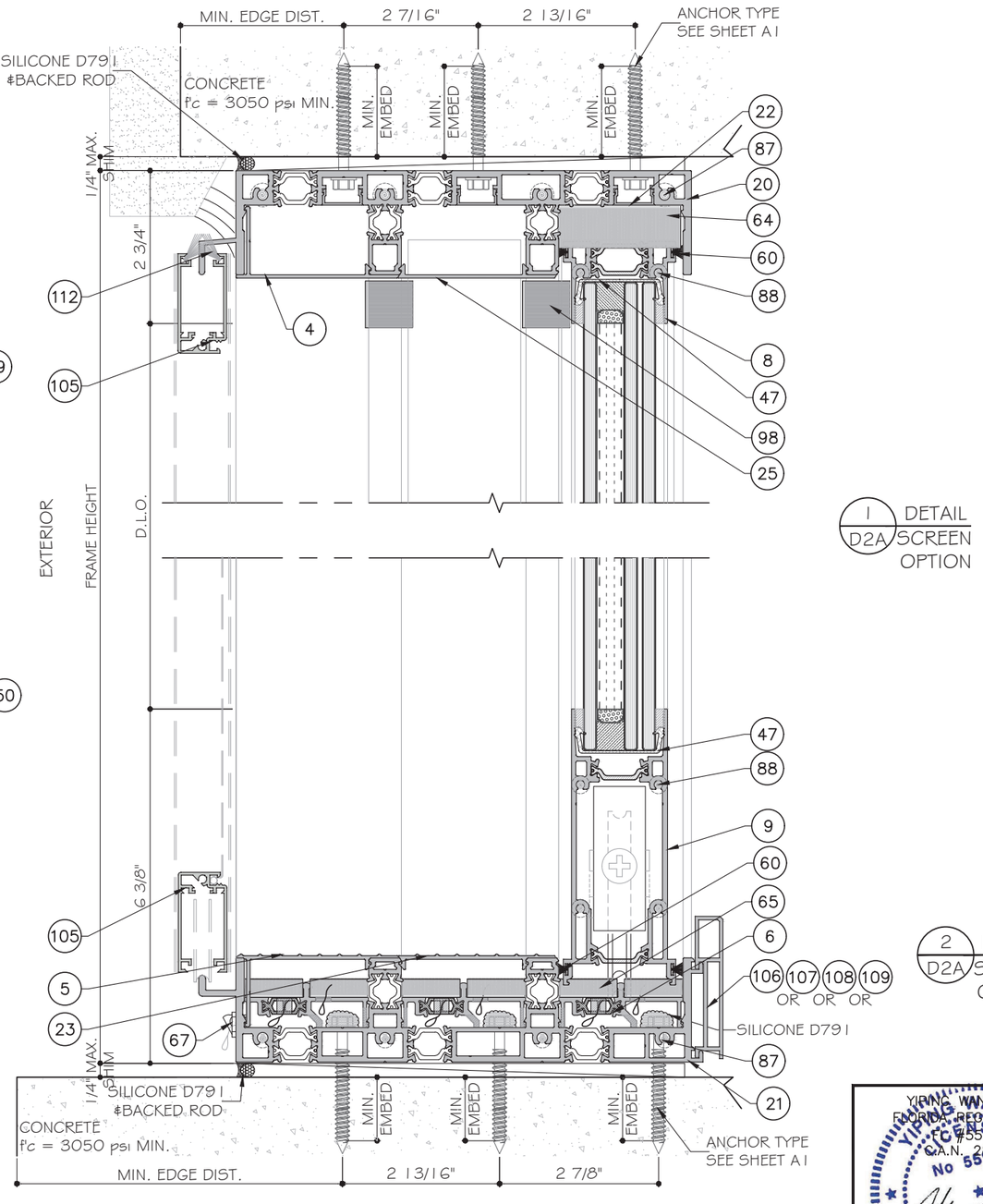
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D2

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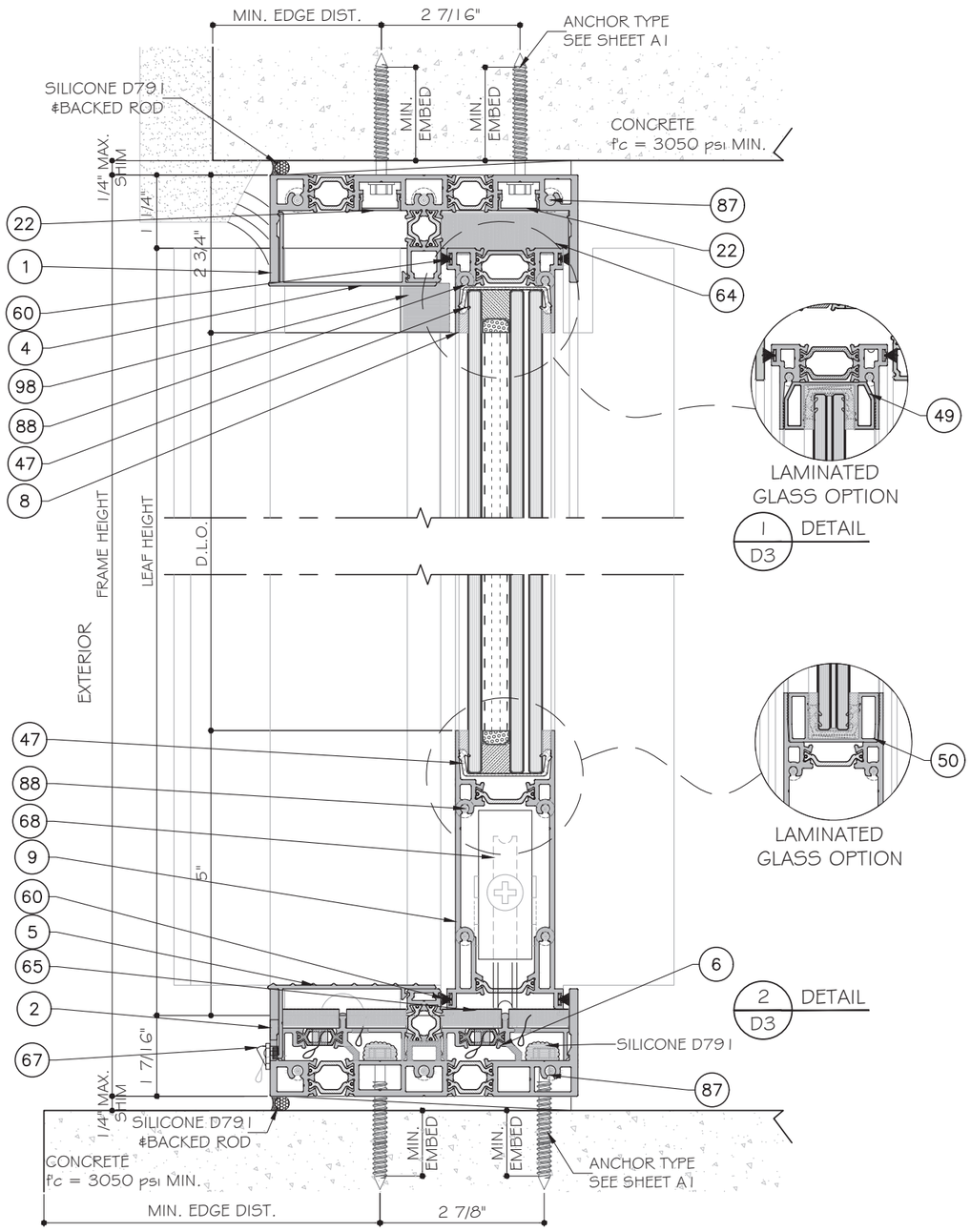
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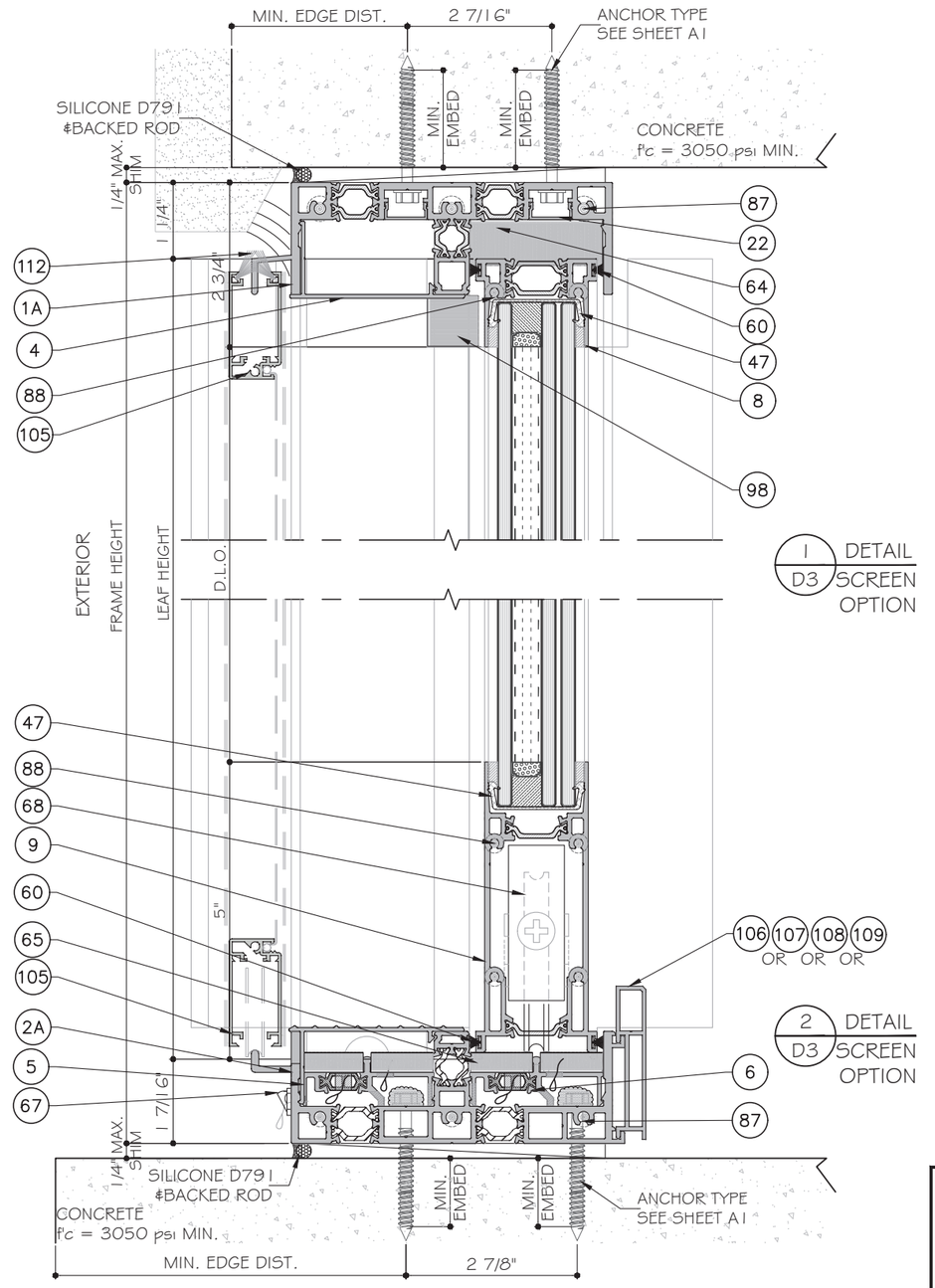
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TWO (2) TRACK DOOR DETAILS

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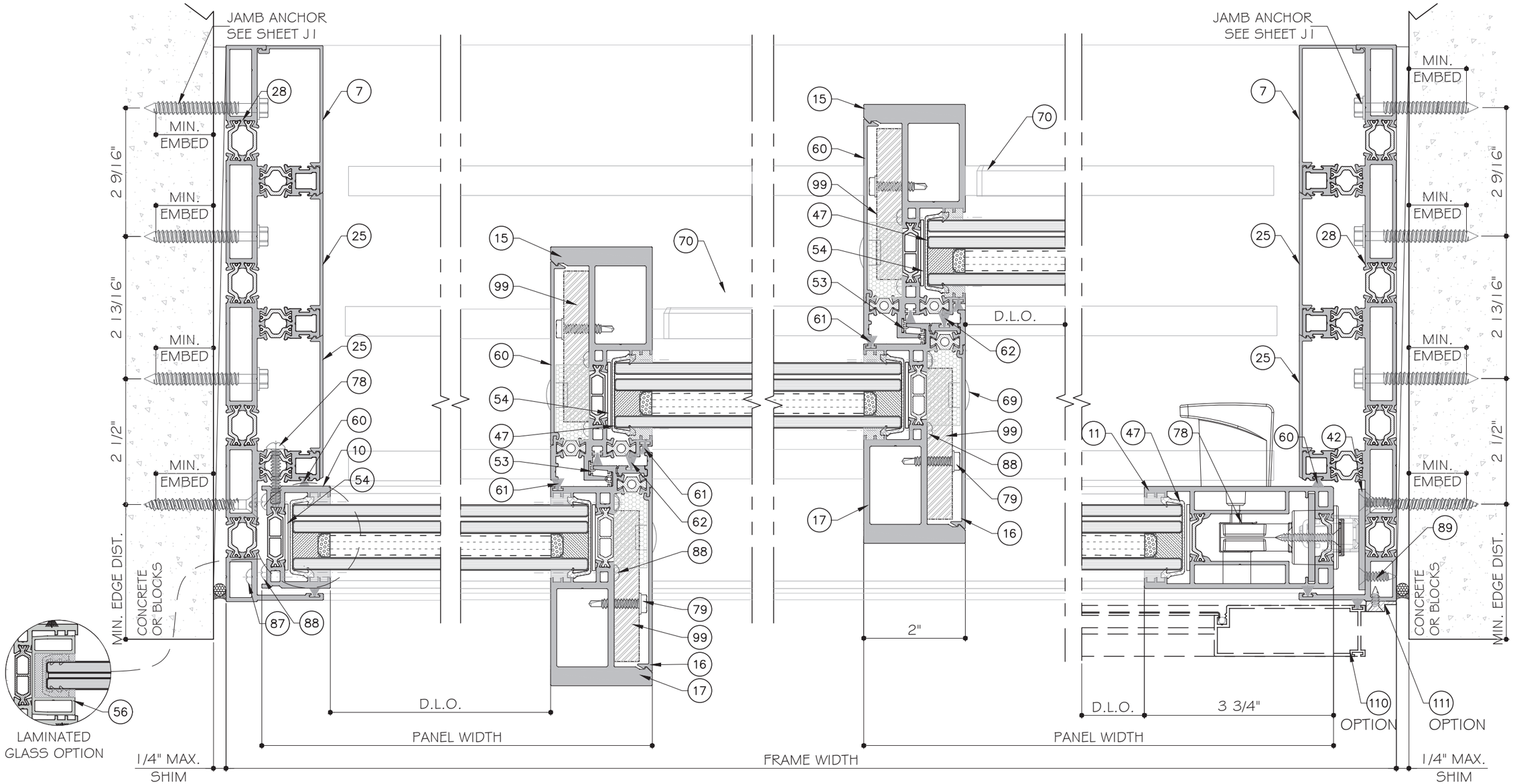
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1/D4 DETAIL

2/D4 DETAIL

3/D4 DETAIL

1A/D4 DETAIL

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

FOUR (4) TRACK DOOR DETAILS
(LEVEL 4 SHOWN)

YUNG WANG
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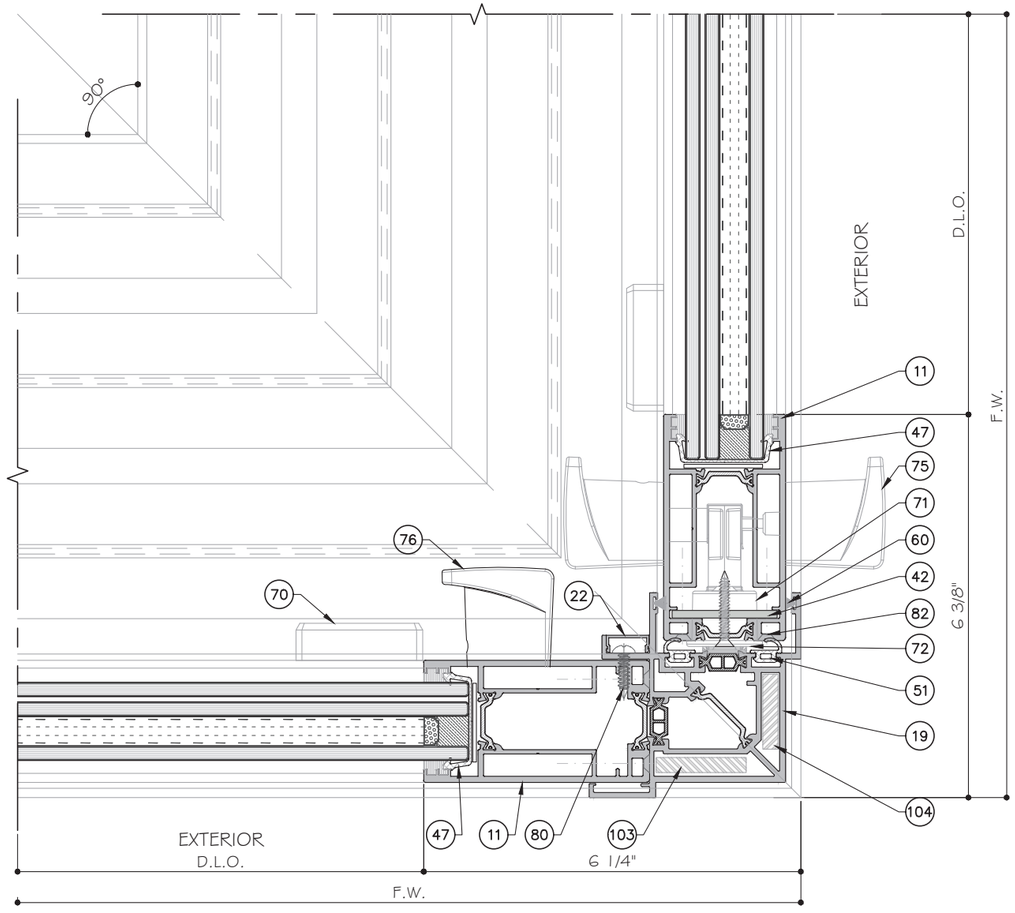
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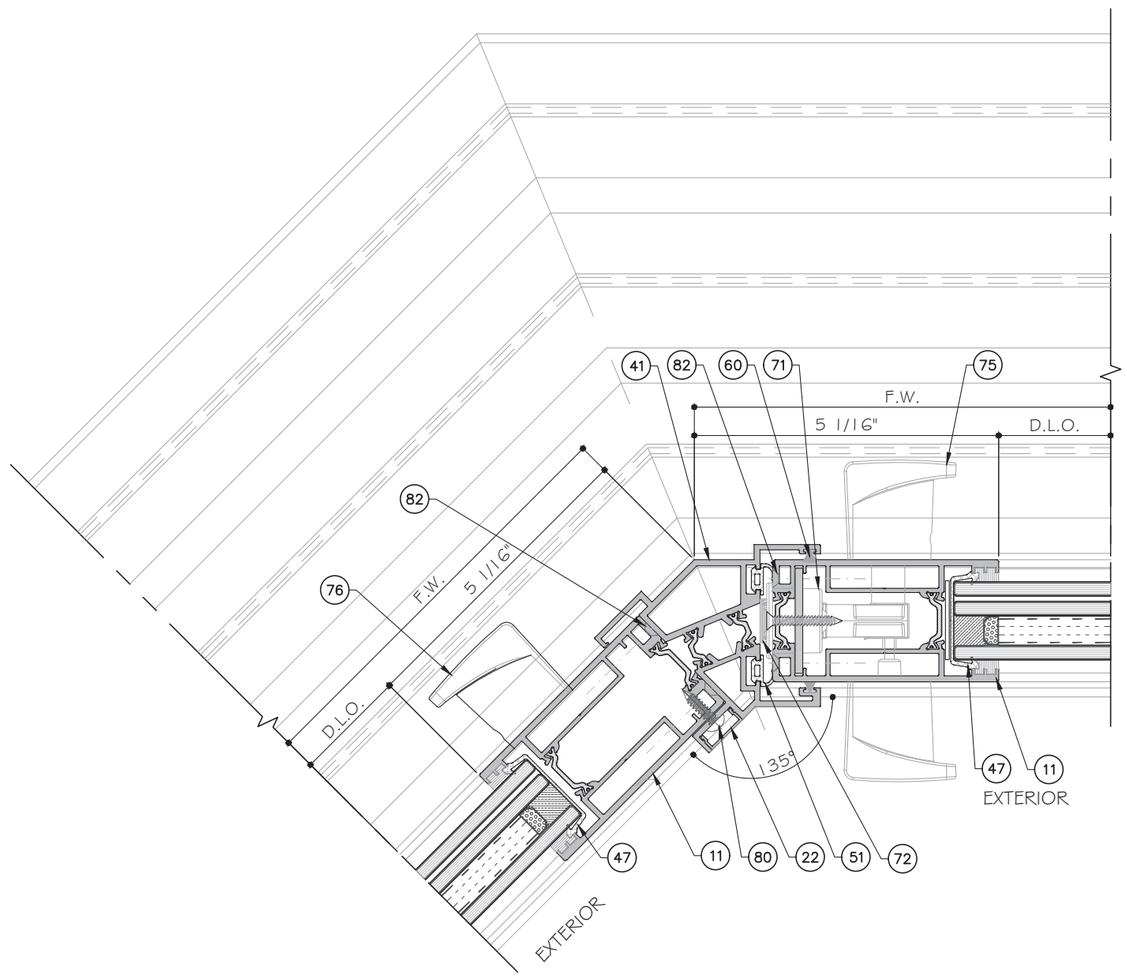
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D4

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1 / D4.1 DETAIL



2 / D4.1 DETAIL

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

CORNER DETAILS

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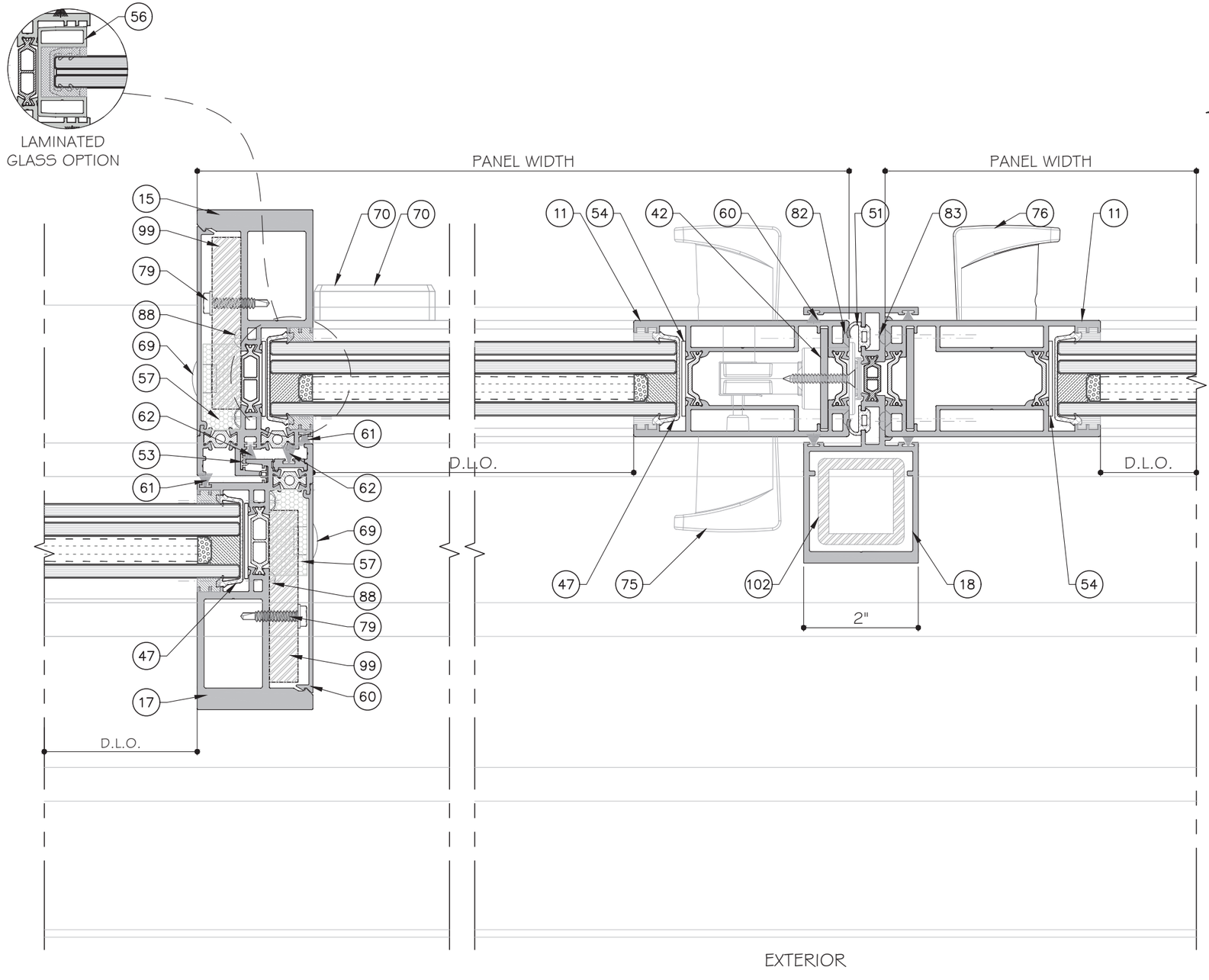
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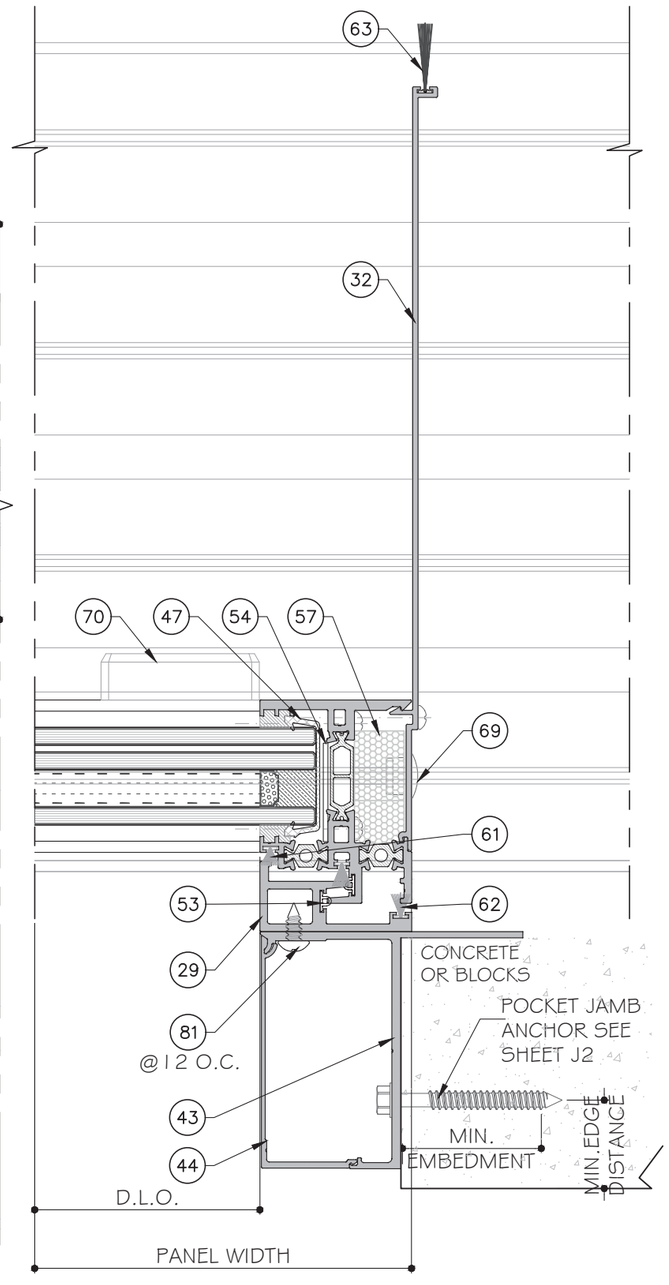
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D4.1

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1 / D5 DETAIL

2 / D5 DETAIL

3 / D5 DETAIL

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

FOUR (4) TRACK DOOR DETAILS
(LEVEL 4 SHOWN)

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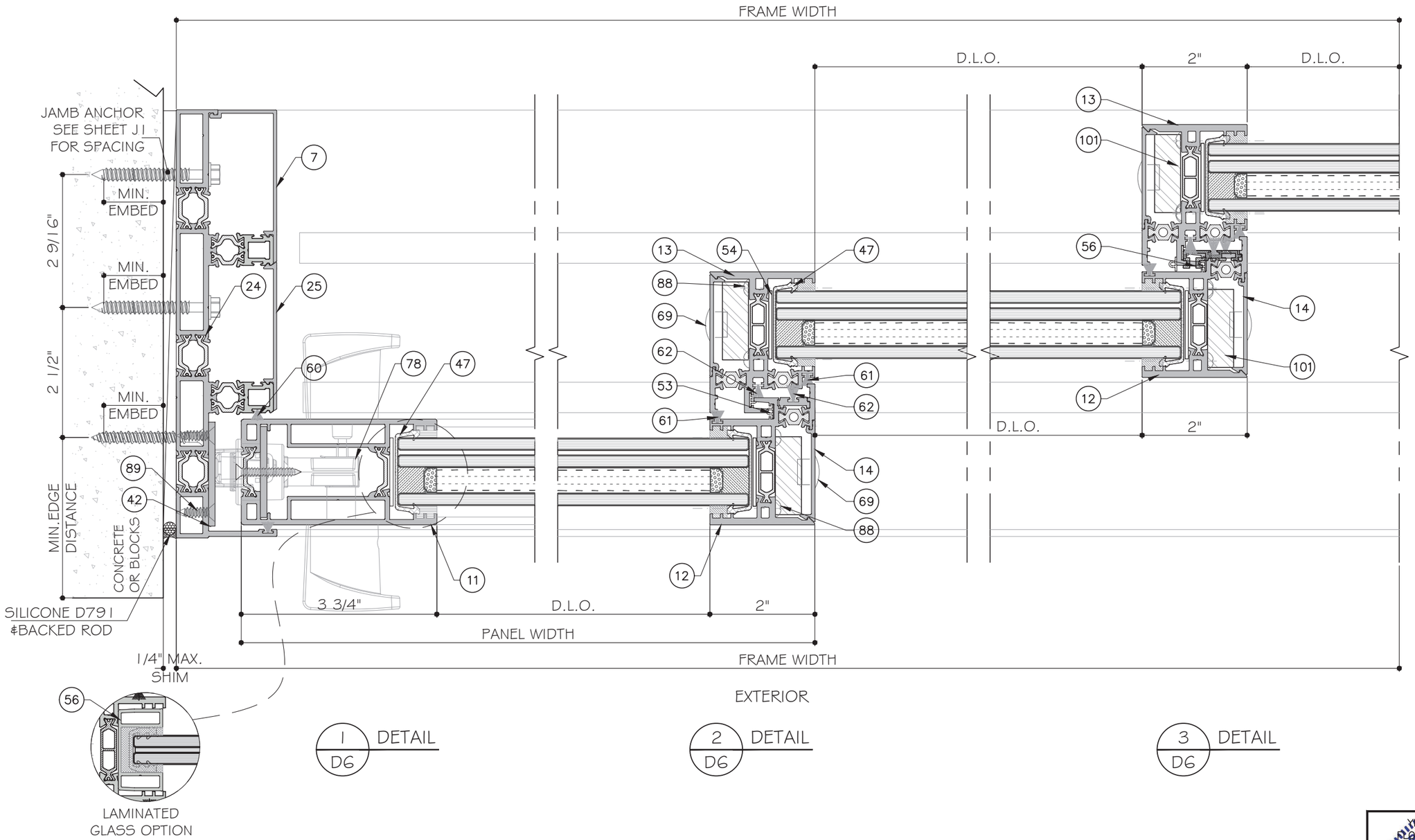
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YIPING WANG, P.E.
FLORIDA REGISTRATION
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STATE OF FLORIDA PROFESSIONAL ENGINEER

December 19th, 2024



SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

THREE (3) TRACK DOOR DETAILS
(LEVEL 1 SHOWN)

YIPING WANG, P.E.
FLORIDA REGISTRATION
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C.A.N. 28577
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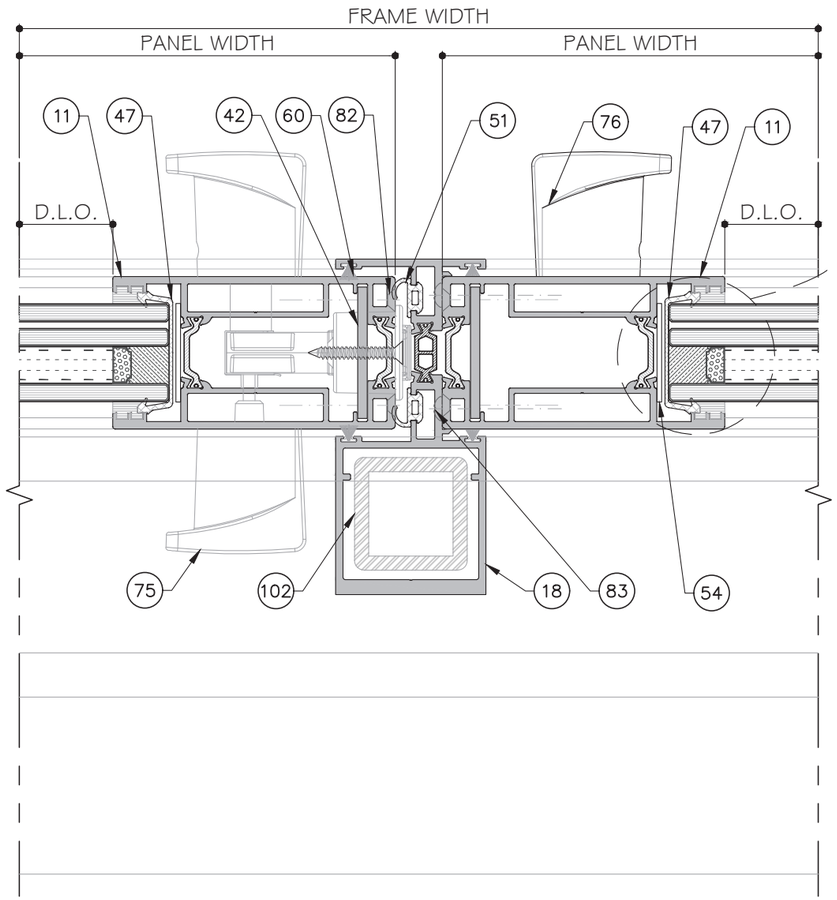
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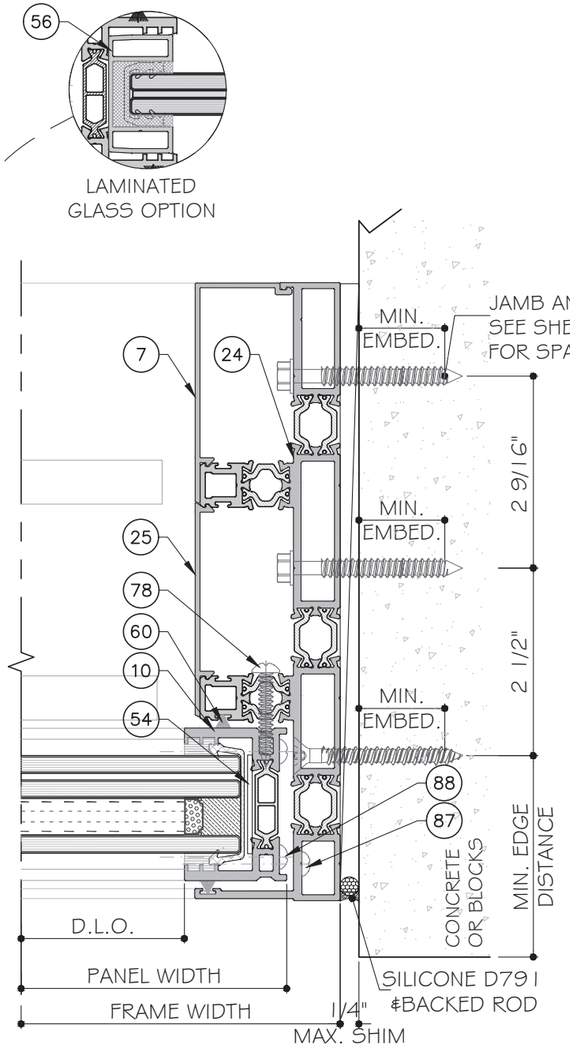
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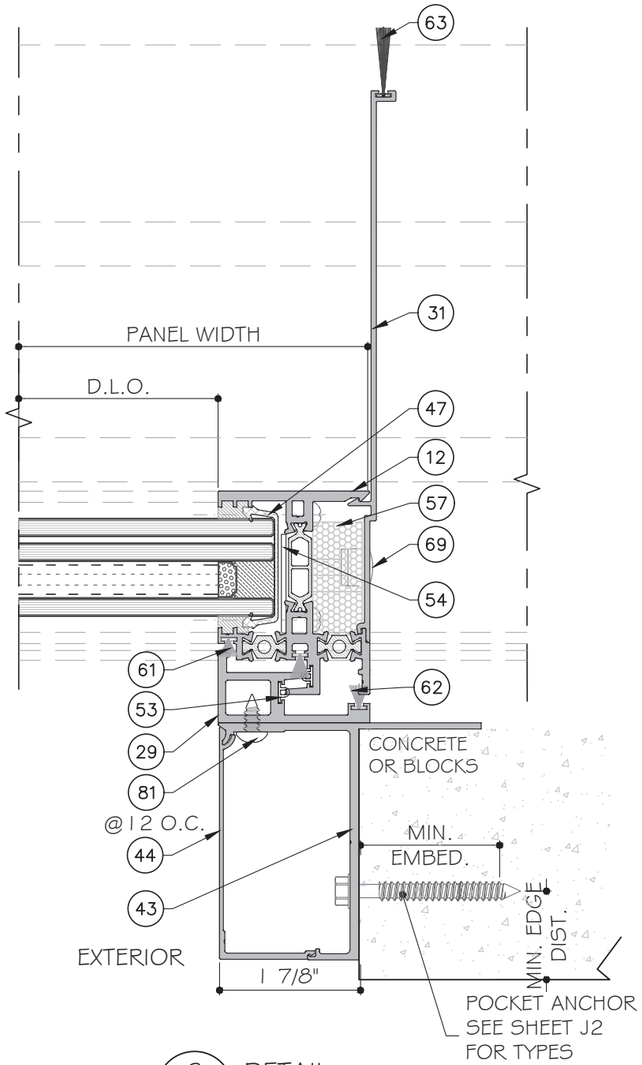
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24 OF 35



1 / D7 DETAIL



2 / D7 DETAIL



3 / D7 DETAIL

THREE (3) TRACK DOOR DETAILS

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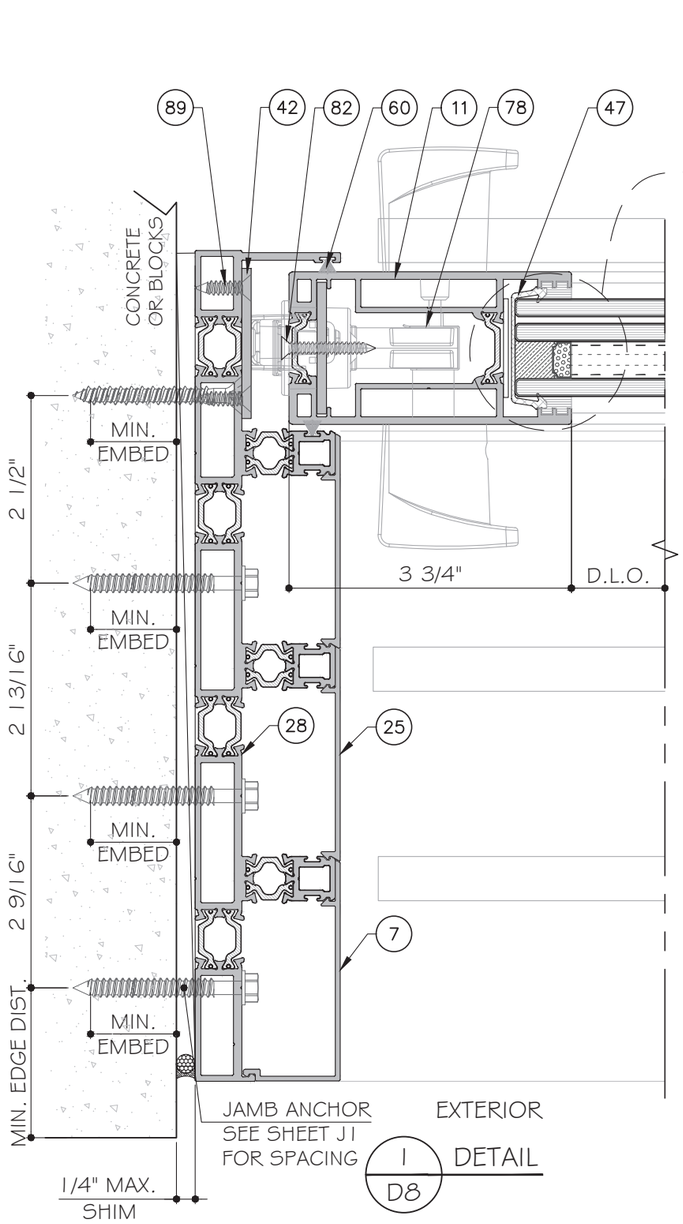
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YIMING WANG, P.E.
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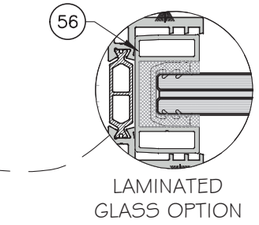
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No 55983

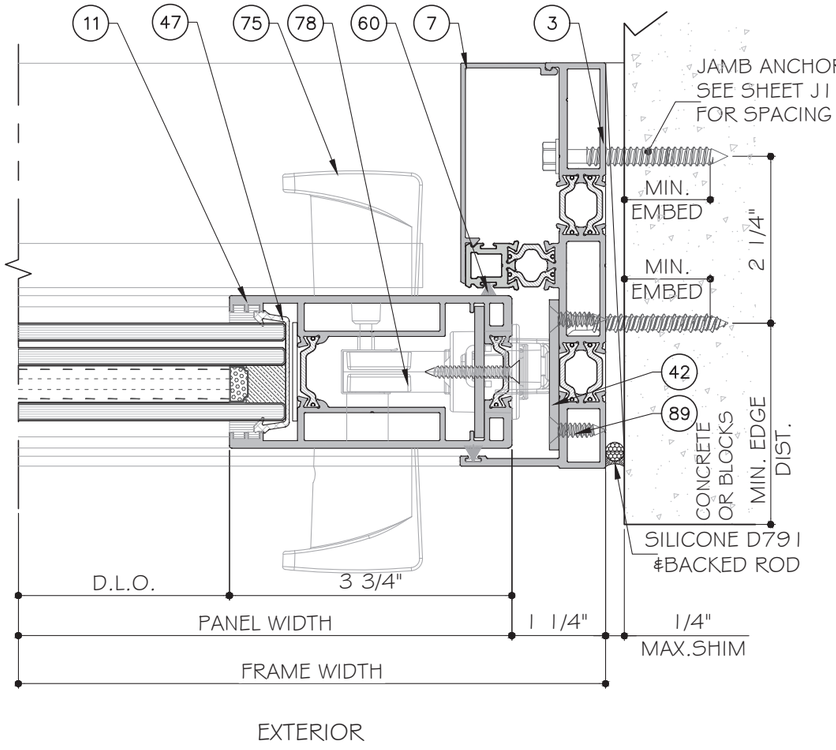
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EXTERIOR

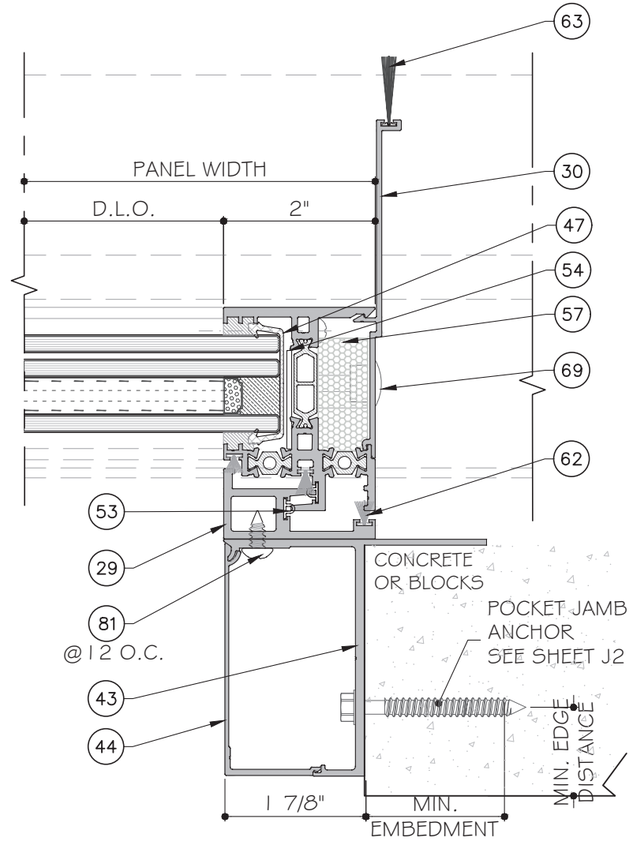
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EXTERIOR

2 / D8 DETAIL



EXTERIOR

3 / D8 DETAIL

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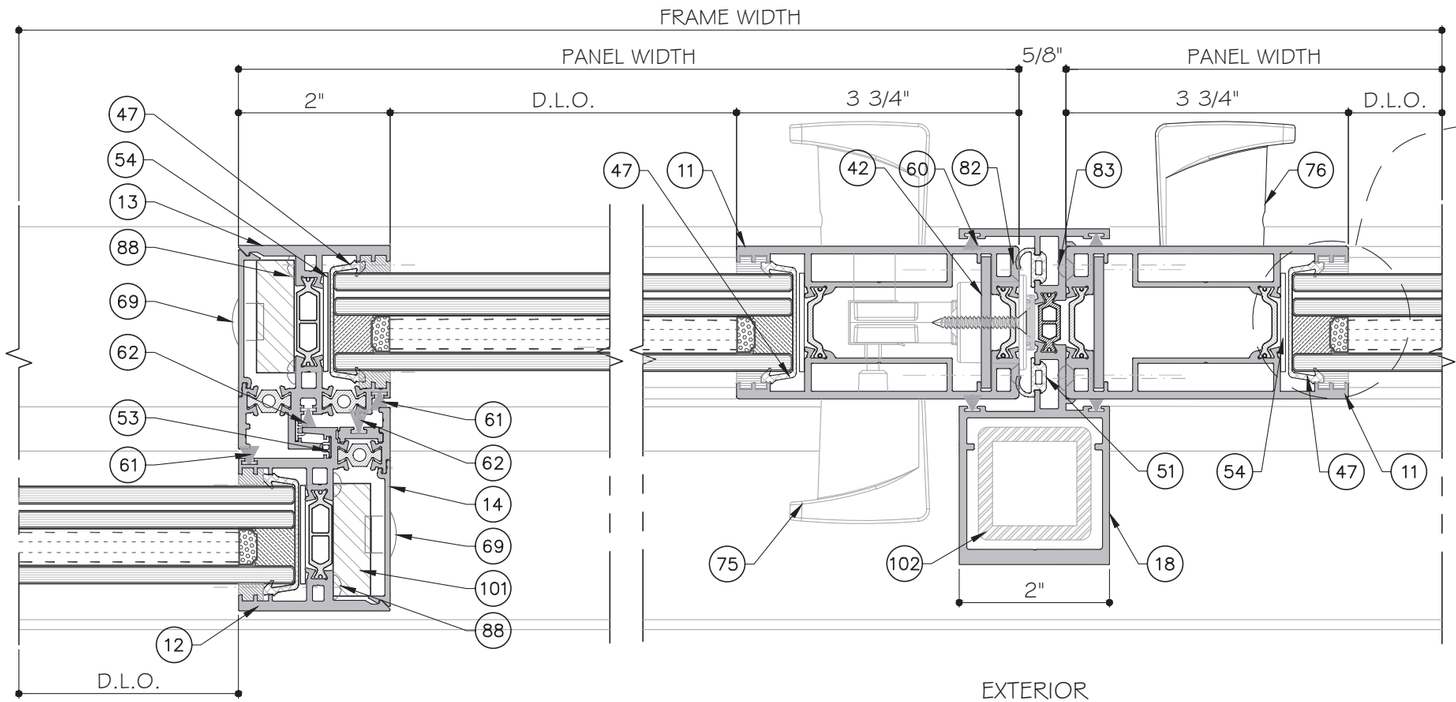
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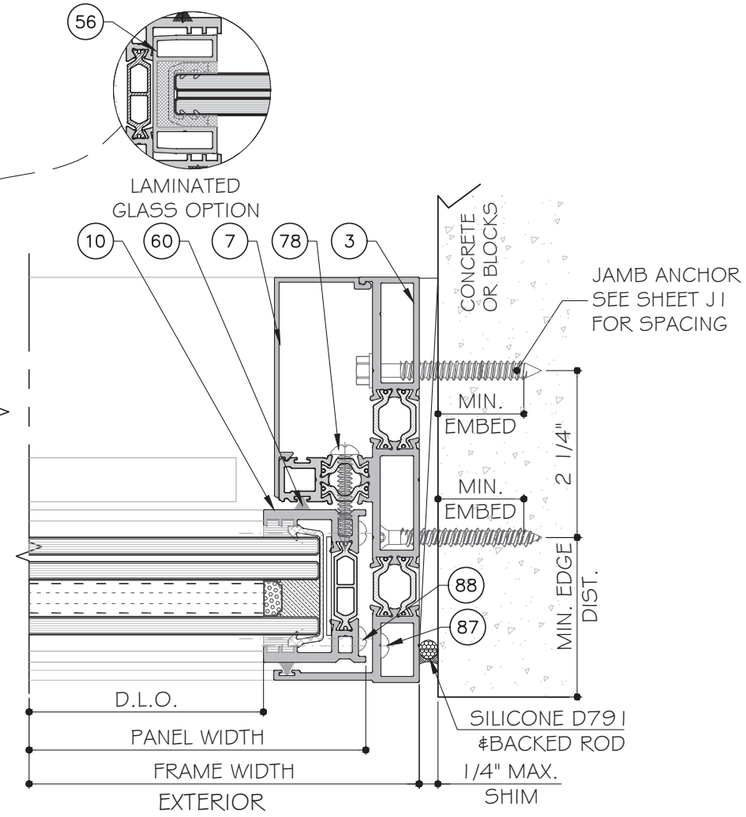
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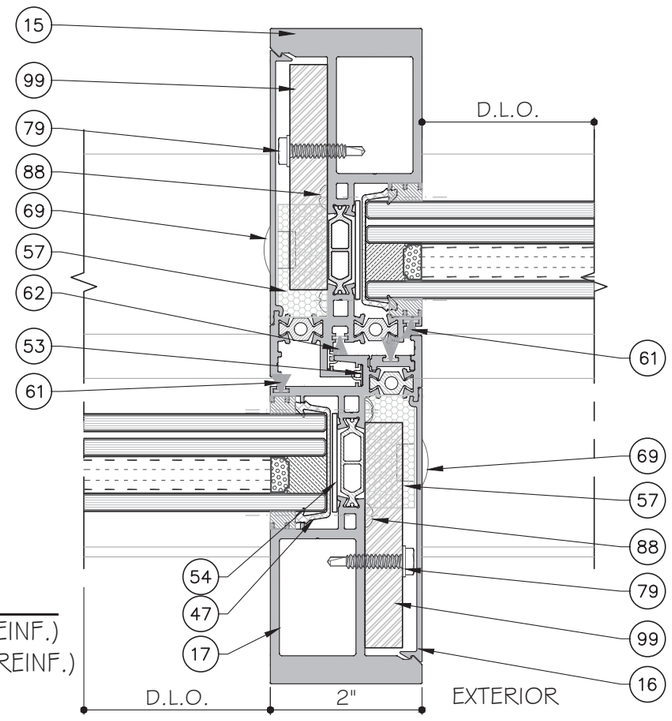
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December 19th, 2024



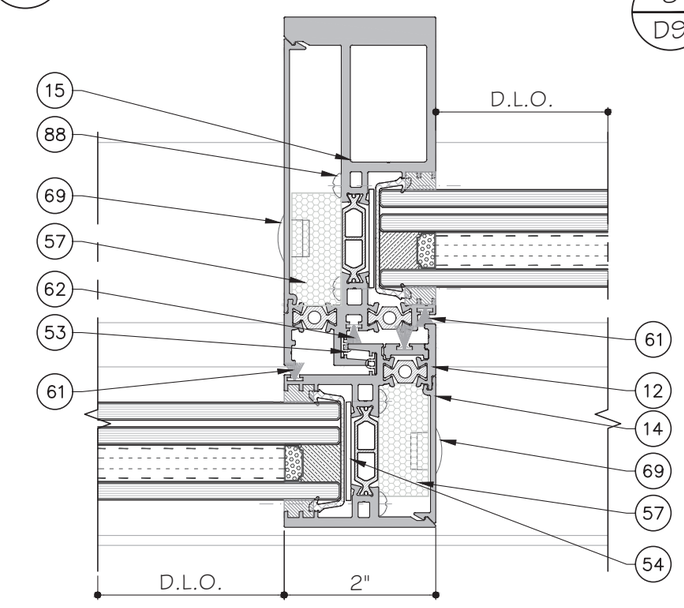
1 / D9 DETAIL LEVEL 1



3 / D9 DETAIL



1 / D9 DETAIL LEVEL 4(W/ REINF.) LEVEL 3(W/O REINF.)



2 / D9 DETAIL LEVEL 2

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

TWO (2) TRACK DOOR DETAILS

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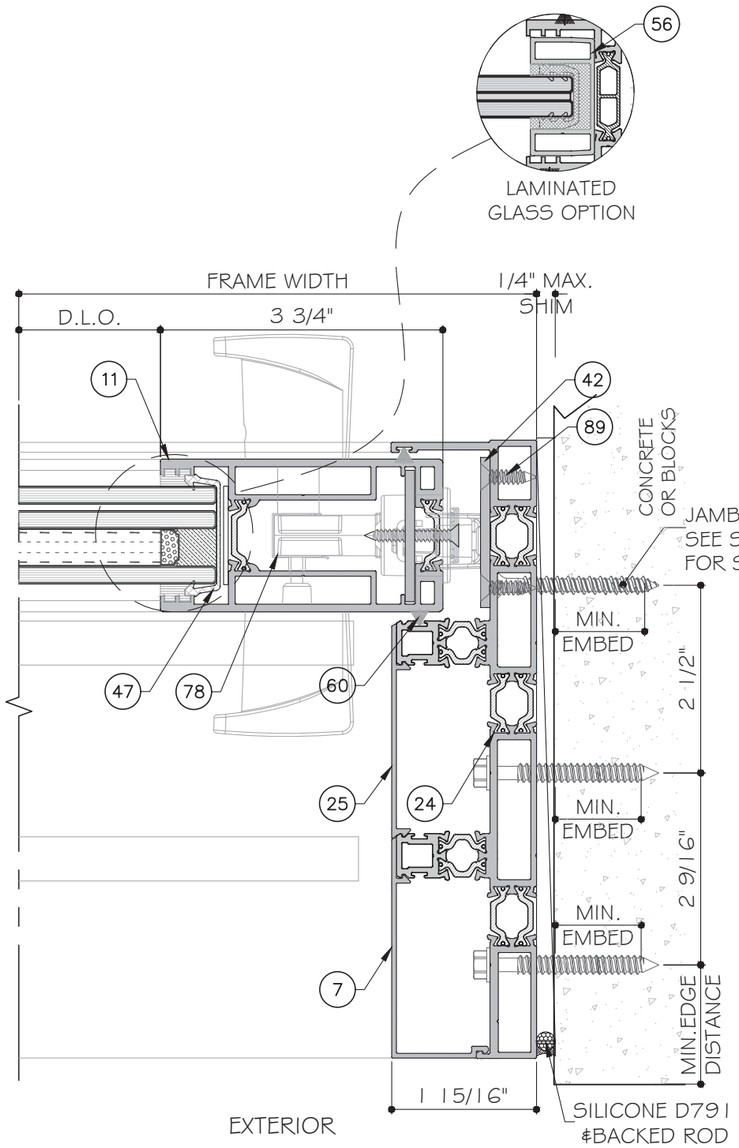
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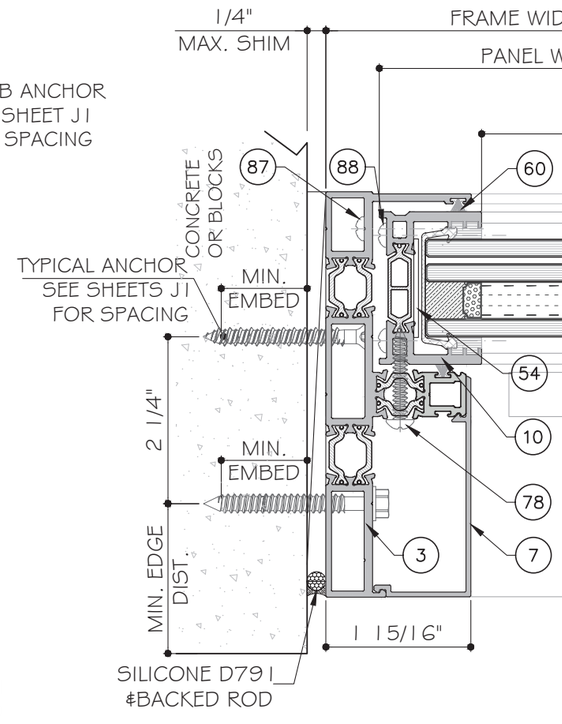
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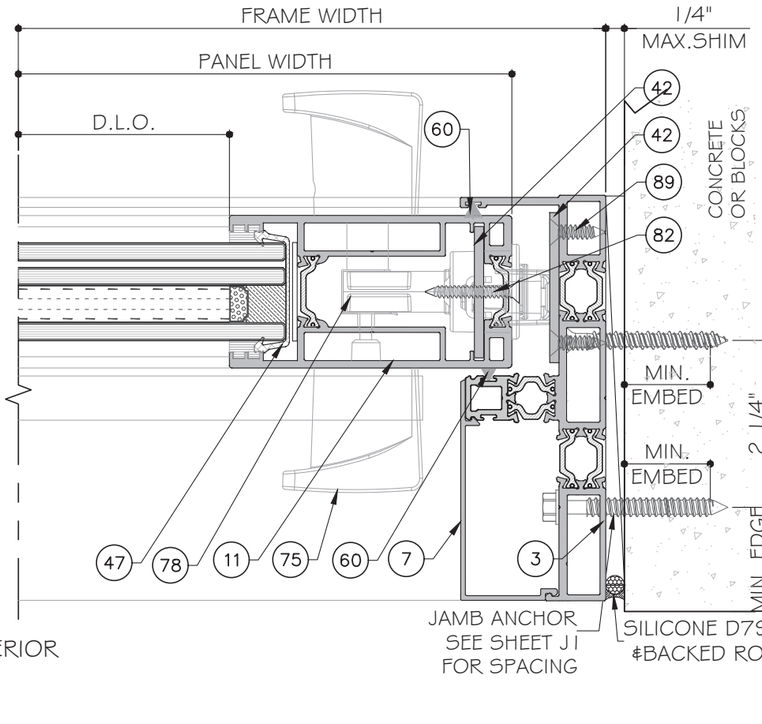
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1 / D10 DETAIL



2 / D10 DETAIL



3 / D10 DETAIL

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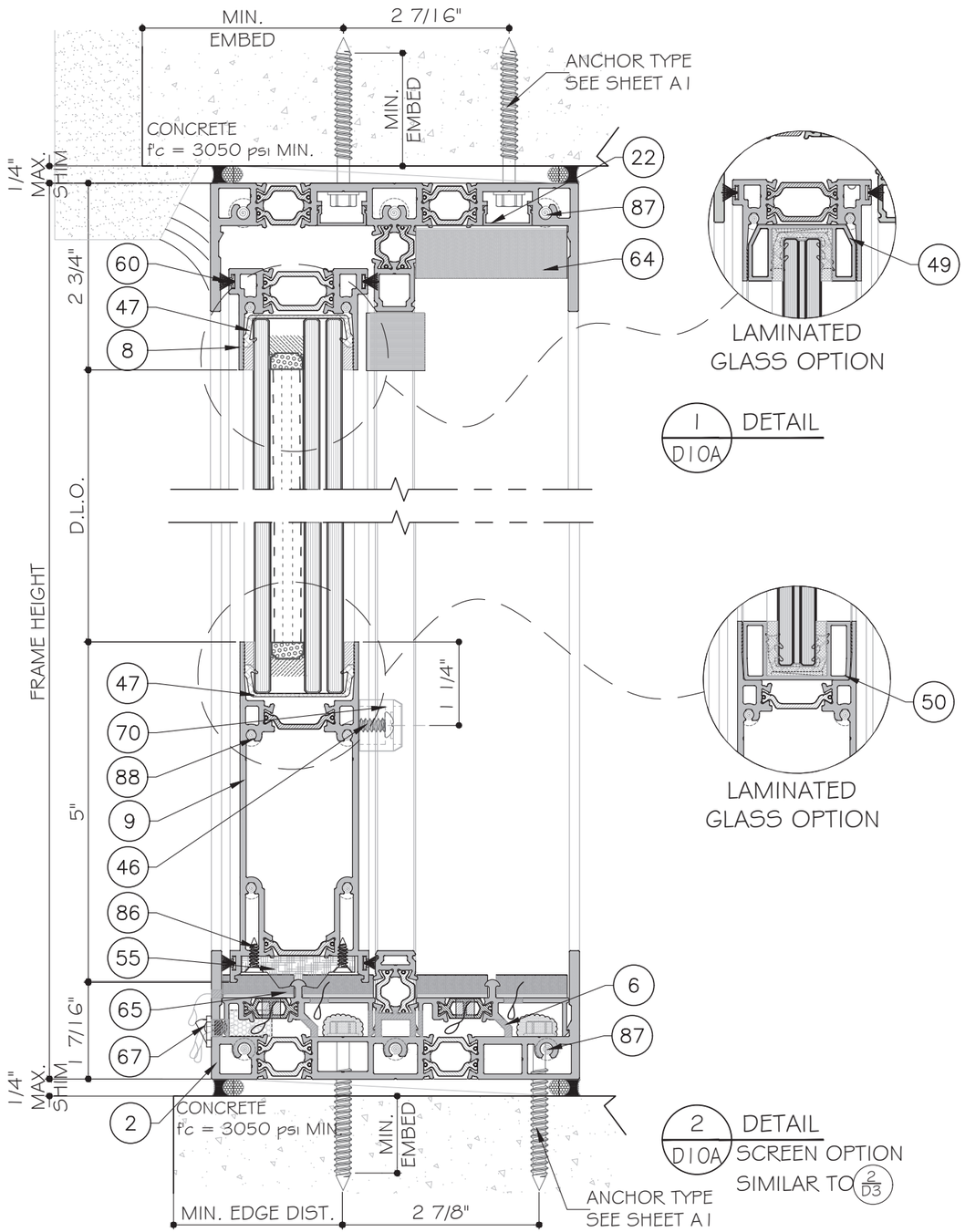
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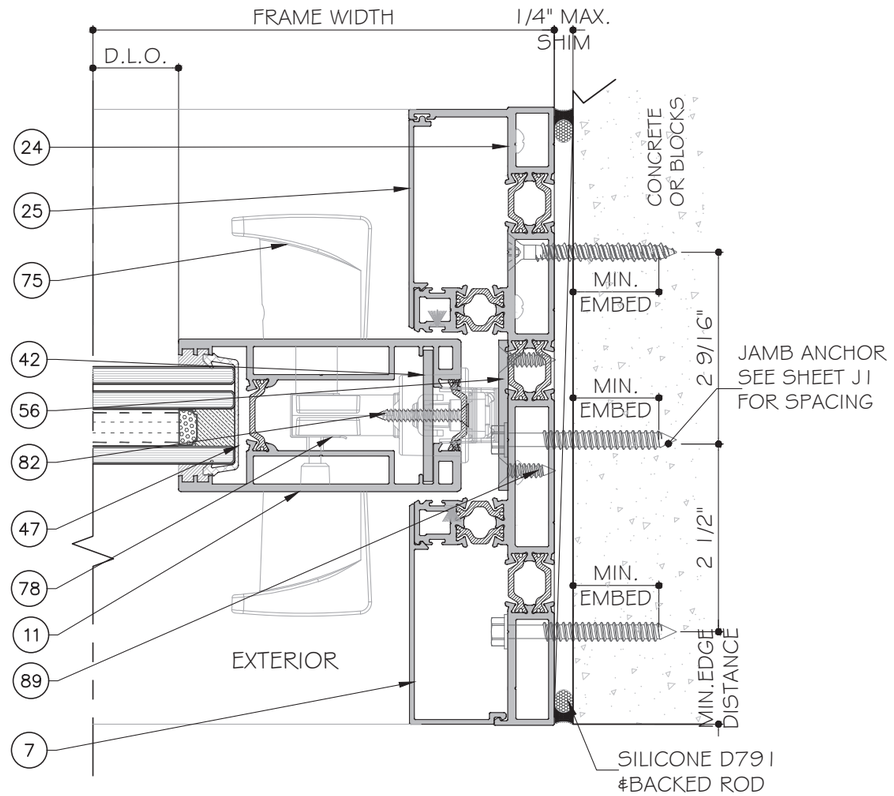
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YING WANG, P.E.
FLORIDA REGISTRATION
P.E. #55983
C.A.N. 28677

STATE OF FLORIDA PROFESSIONAL ENGINEER

December 19th, 2024





MCY ENGINEERING, INC.
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12781 MIRAMAR PARKWAY #301
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ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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

Rev. No.	Date	Drawn By	Description
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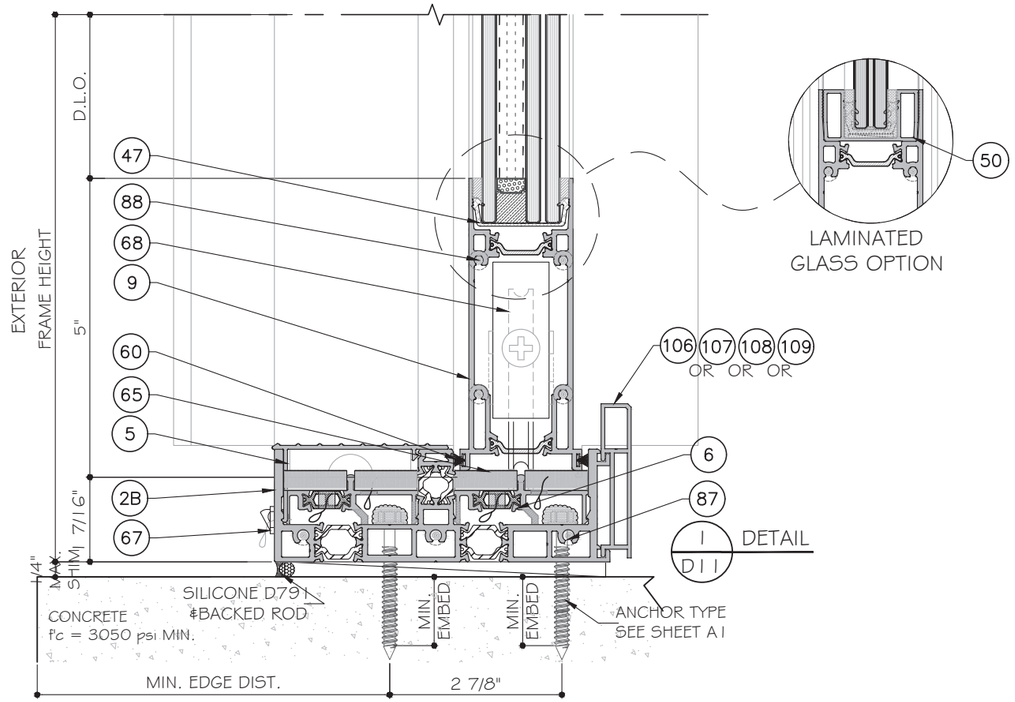
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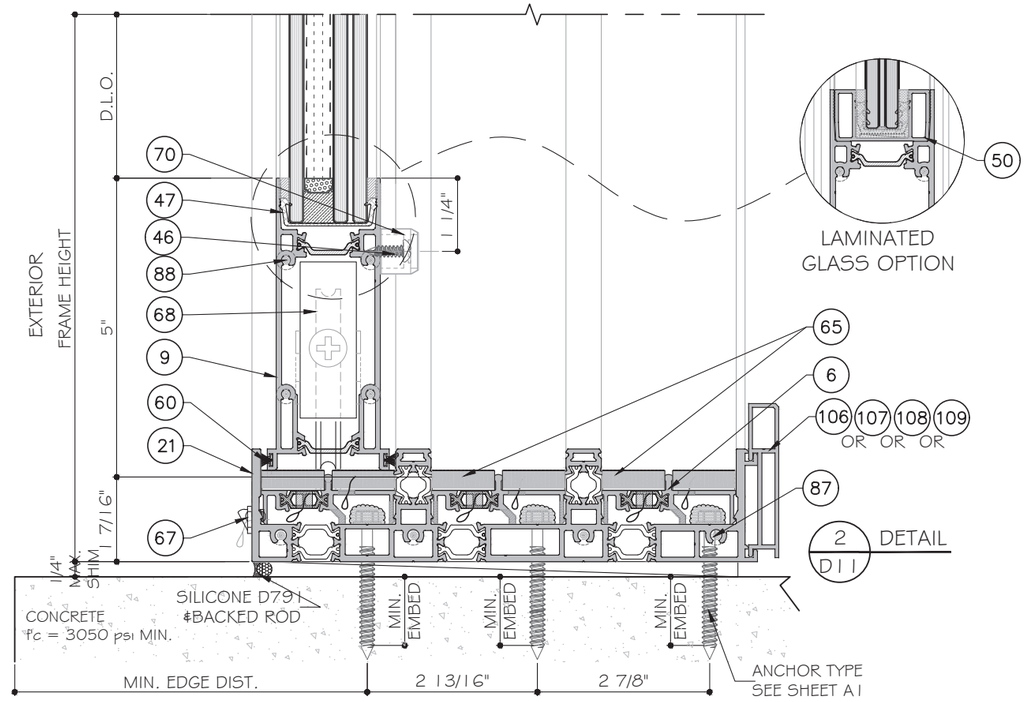
DRAWING NO. AD21-56

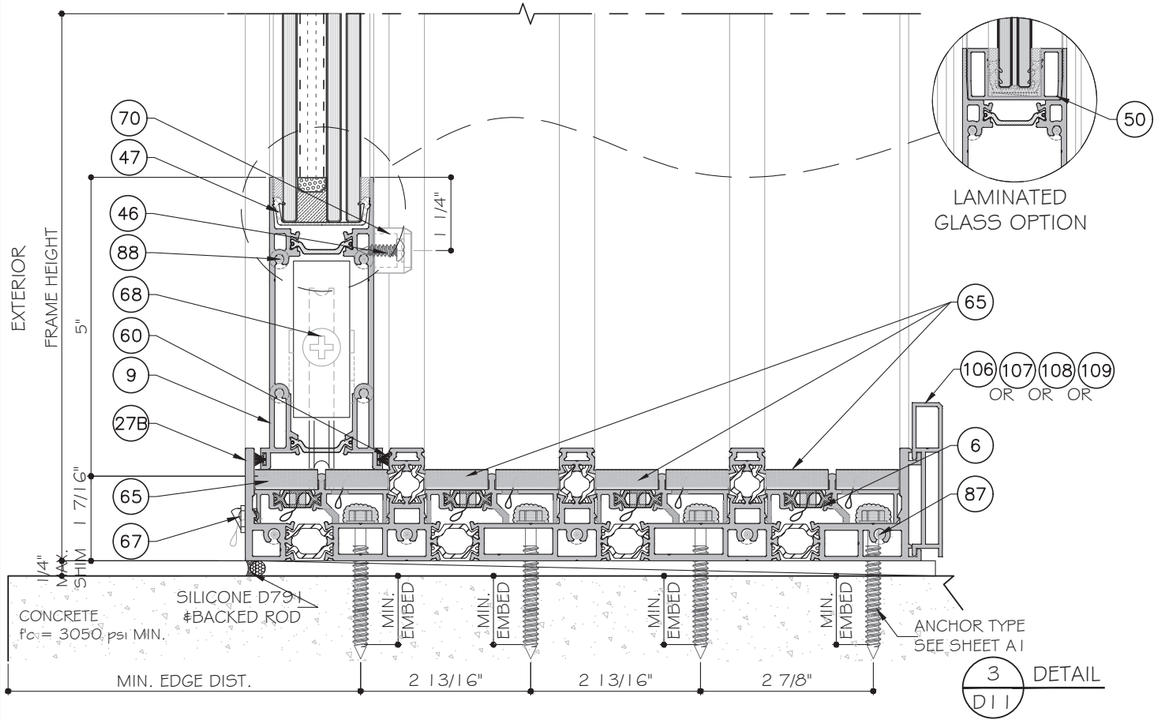
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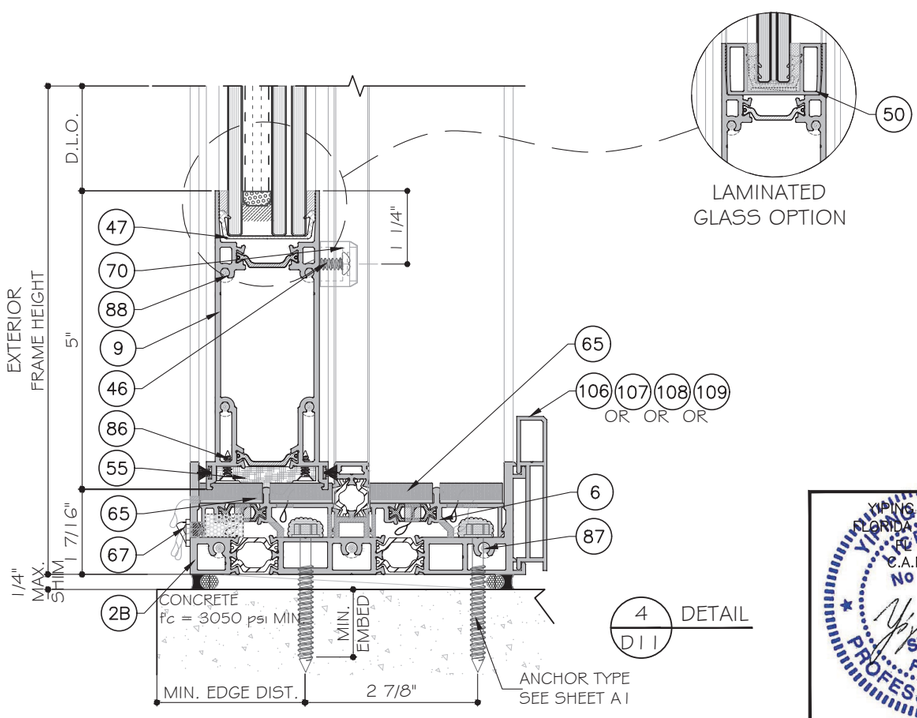
Sheet No. 28A OF 35

YIPING WANG, PE
FLORIDA REGISTRATION
LICENSE
No 55867
C.A.N. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
December 19th, 2024









YIPING WANG P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28877
No 55983
STATE OF FLORIDA
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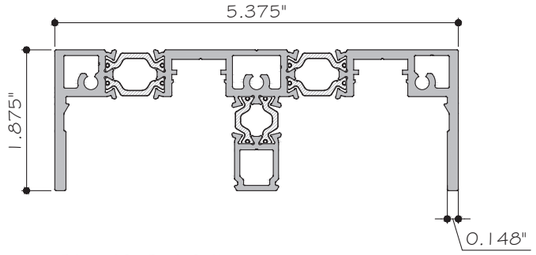
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Drawn Date 09.14.2023 | Scale

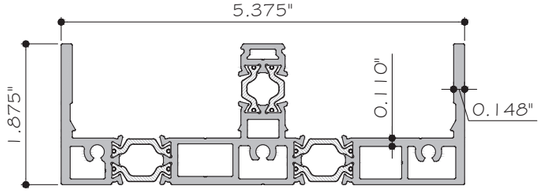
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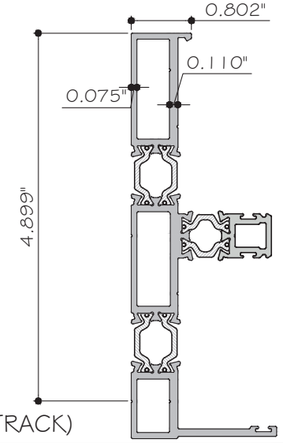
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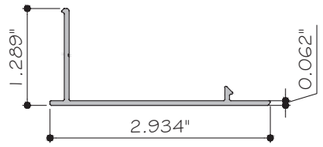
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ES-SGD2020T-501 6063-T6



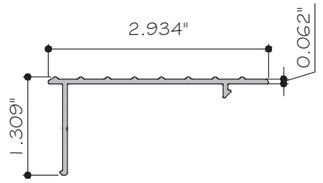
2 SILL (2 TRACK)
ES-SGD2020T-502 6063-T6



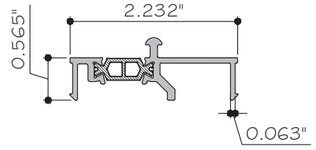
3 JAMB (2 TRACK)
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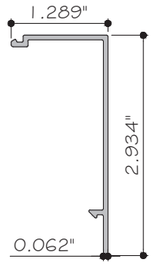
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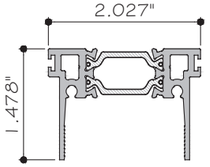
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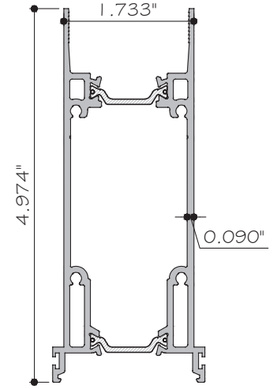
6 TRACK
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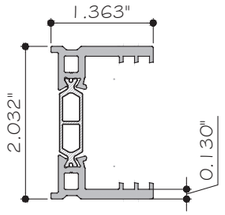
7 JAMB COVER
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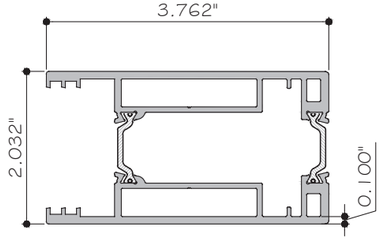
8 TOP RAIL
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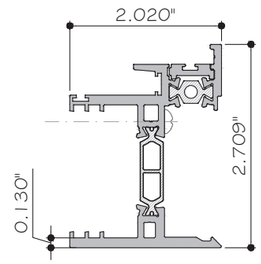
9 BOTTOM RAIL
ES-SGD2020T-506 6063-T6



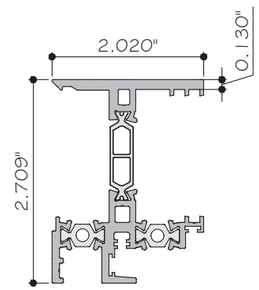
10 FIXED STILE PANEL
ES-SGD2020T-507 6063-T6



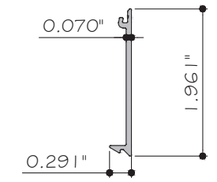
11 SLIDING STILE PANEL
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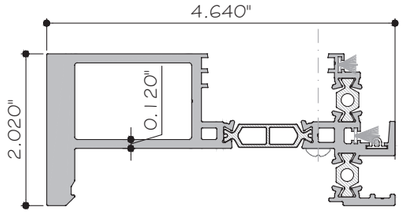
12 INTERLOCK
ES-SGD2020T-509 6005-T5



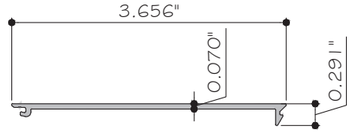
13 INTERLOCK
ES-SGD2020T-510 6005-T5



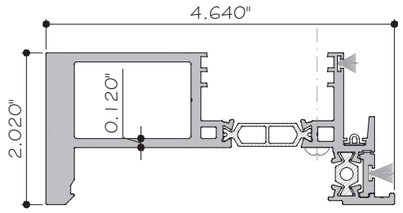
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ES-SGD2020T-027 6063-T5



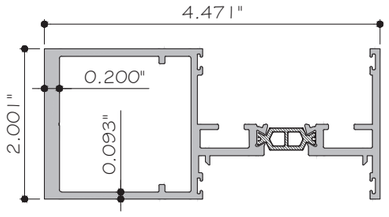
15 INTERLOCK
ES-SGD2020T-511 6005-T5



16 COVER INTERLOCK
ES-SGD2020T-029 6063-T5



17 INTERLOCK
ES-SGD2020T-512 6005-T5



18 ASTRAGAL
ES-SGD2020T-513 6005-T5

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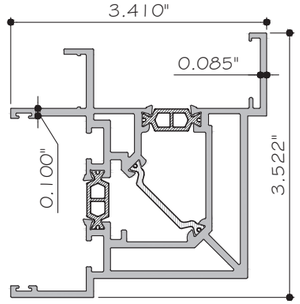
Drawn Date 09.14.2023 | Scale

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AD21-56

PARTS

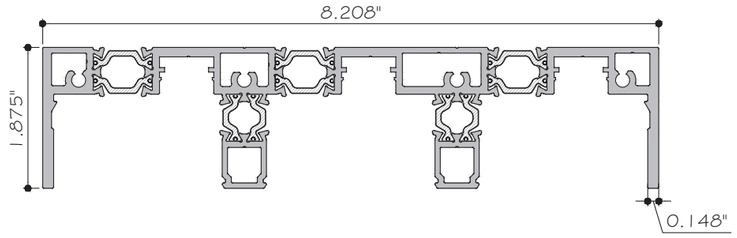
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YIMING WANG
FLORIDA REGISTRATION
P.E. #55983
C.A.N. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
December 19th, 2024



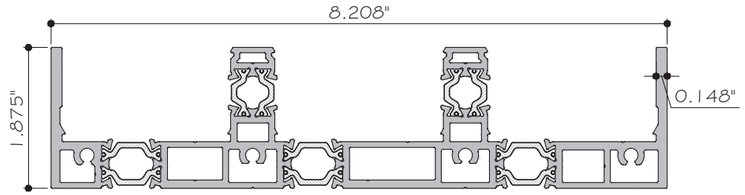
19 CORNER 90°

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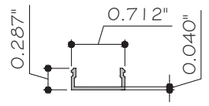
20 HEAD 3 TRACK

ES-SGD2020T-515 6063-T6



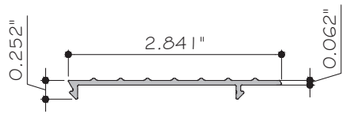
21 SILL 3 TRACK

ES-SGD2020T-516 6063-T6



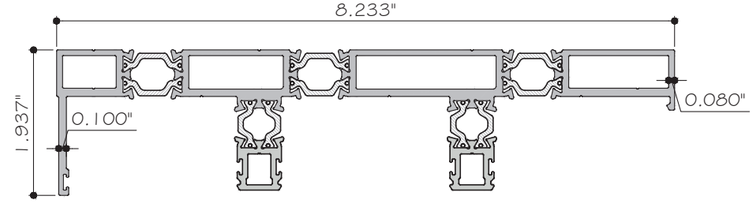
22 COVER

ES-6011 6063-T5



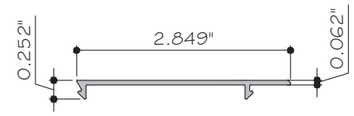
23 SILL COVER MULTITRACK

ES-SGD2020T-037 6063-T5



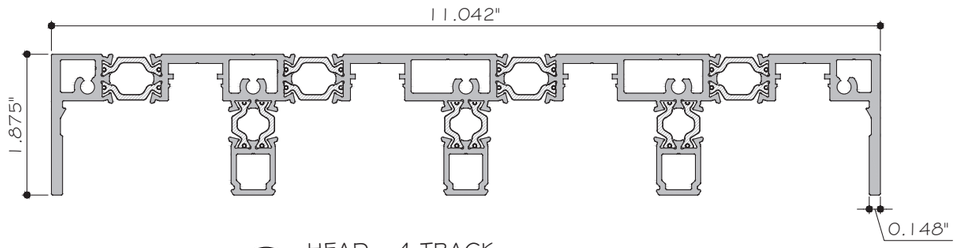
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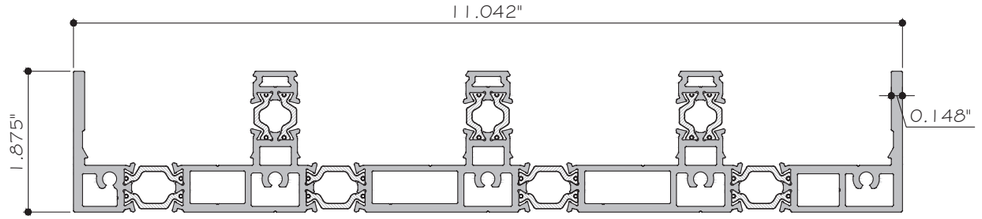
25 JAMB COVER MULTITRACK

ES-SGD2020T-039 6063-T5



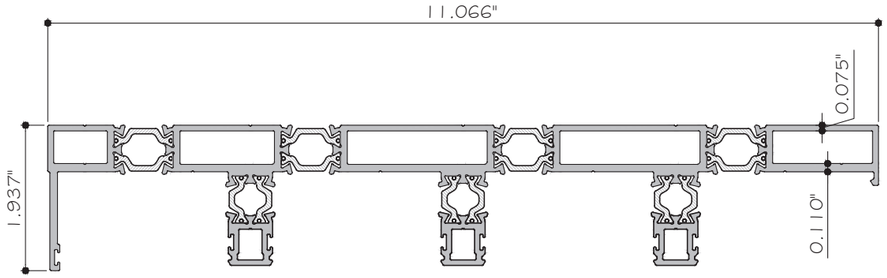
26 HEAD - 4 TRACK

ES-SGD2020T-518 6063-T6



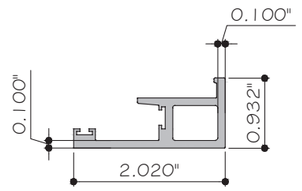
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ES-SGD2020T-519 6063-T6



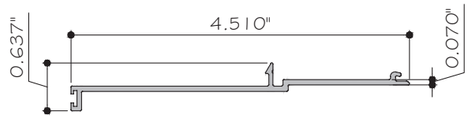
28 JAMB 4 TRACK

ES-SGD2020T-520 6063-T6



29 INTERLOCK POCKET

ES-SGD2020T-063 6005-T5



30 COVER POCKET 2 TRACK

ES-SGD2020T-041 6063-T6

YIPING WANG, P.E.
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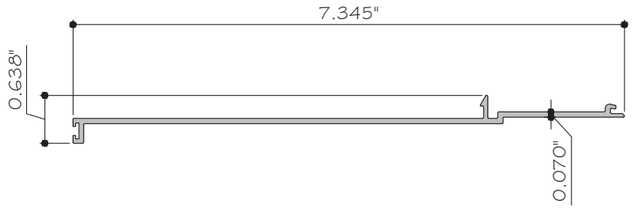
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Drawn Date 09.14.2023 | Scale

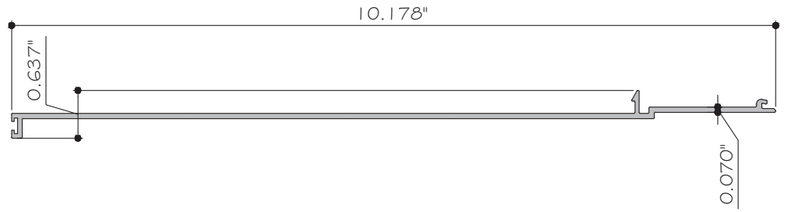
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PARTS

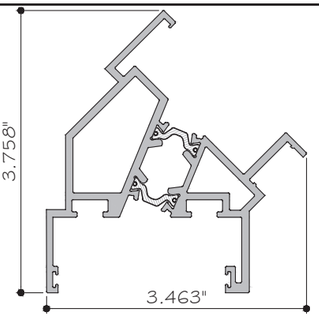
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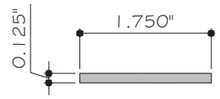
31 COVER POCKET 3 TRACK
ES-SGD2020T-042 6063-T6



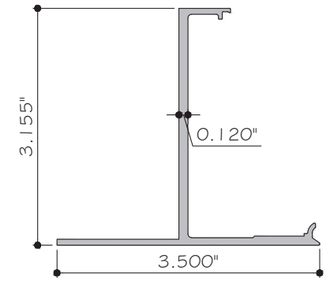
32 COVER POCKET 4 TRACK
ES-SGD2020T-043 6063-T6



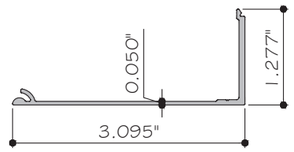
41 ASTRAGAL 135°
ES-SGD2020T-529 6005-T5



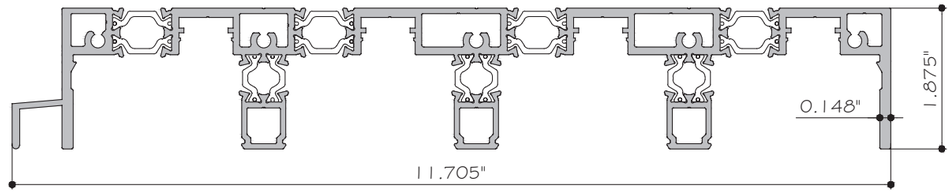
42 PLATINA
BAL-P-001 6063-T6



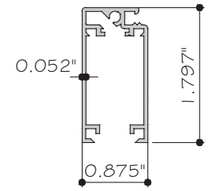
43 MALE CONNECTING MULLION
ES-SGD2020-069 6063-T6



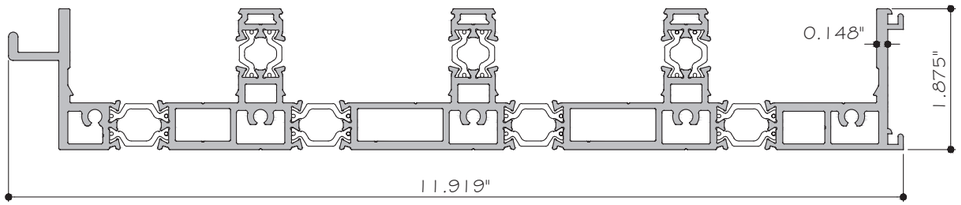
44 HEAD 2 TRACK WITHOUT SCREEN
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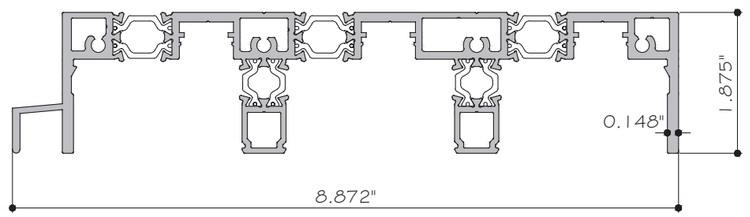
26A HEAD - 4 TRACK FOR SCREEN OPTION
ES-SGD2020T-550 6063-T6



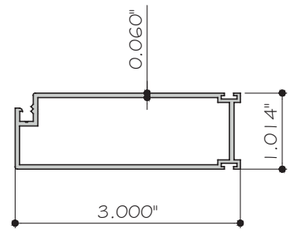
105 SCREEN
ES-E-001 6063-T5



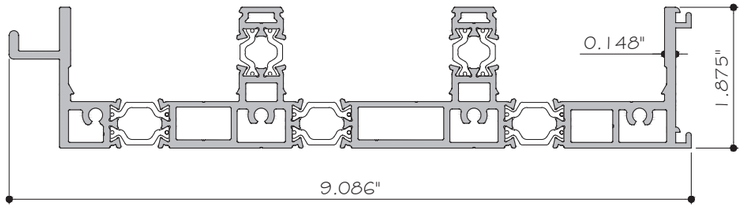
27A SILL - 4 TRACK FOR SCREEN OPTION
ES-SGD2020T-551 6063-T6



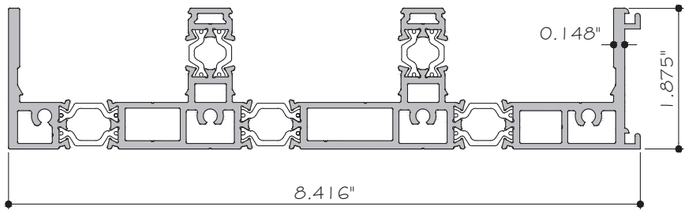
20A HEAD 3 TRACK FOR SCREEN OPTION
ES-SGD2020T-548 6063-T6



110 SCREEN
ES-E-002 6063-T5



21A SILL 3 TRACK FOR SCREEN OPTION
ES-SGD2020T-549 6063-T6



21B SILL 3 TRACK FOR RISER
ES-SGD2020T-544 6063-T6

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28877
STATE OF FLORIDA PROFESSIONAL ENGINEER
December 19th, 2024

MCY ENGINEERING, INC.
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ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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10653 NE Quaybridge Ct.
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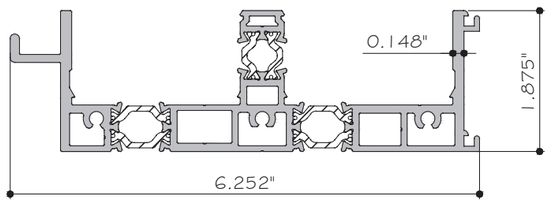
Rev. No.	Date	Drawn By	Description
R2	09.14.2023	James	FBC 2023 UPDATE

Drawn Date 09.14.2023 | Scale

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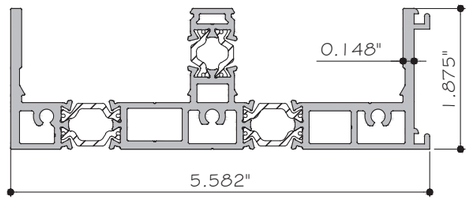
PARTS

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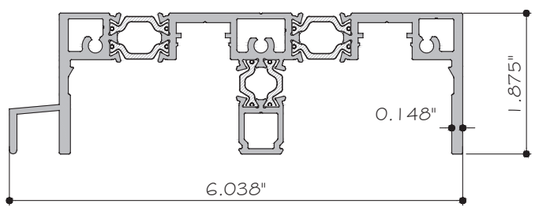
2A SILL (2 TRACK) FOR SCREEN OPTION

ES-SGD2020T-547 6063-T6



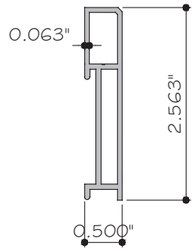
2B SILL (2 TRACK) FOR RISER

ES-SGD2020T-543 6063-T6



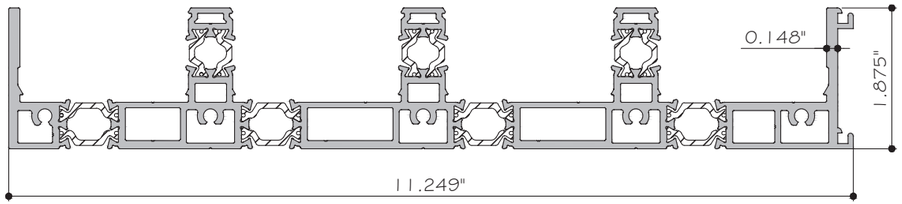
1A HEAD (2 TRACK) FOR SCREEN OPTION

ES-SGD2020T-546 6063-T6



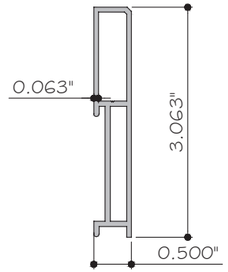
10C STANDARD SILL RISER

ES-SGD2020-008 6063-T6



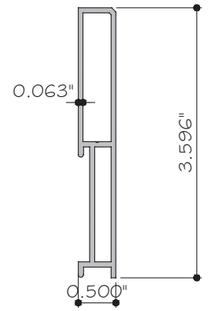
27B SILL - 4 TRACK FOR REISER

ES-SGD2020T-545 6063-T6



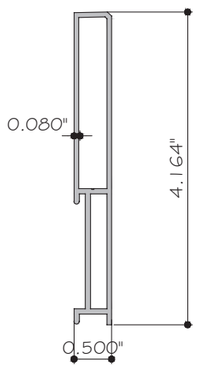
107 STANDARD SILL RISER

ES-SGD2020-007 6063-T6



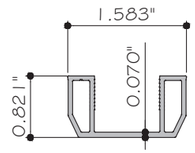
108 STANDARD SILL RISER

ES-SGD2020-041 6063-T6



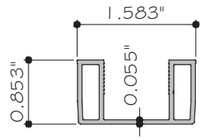
109 STANDARD SILL RISER

ES-SGD2020-040 6063-T6



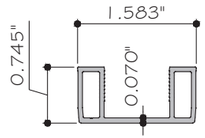
49 TOP LAMINATED ADAPTOR

ES-SGD1010T-015 6063-T6



50 BOTTOM LAM. GLASS ADAPTOR

ES-SGD2020T-101 6063-T5



56 VERTICAL POCKET ADAPTOR

ES-SGD1010T-016 6063-T6

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PARTS

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YIPING WANG, P.E.
FLORIDA REGISTRATION
P.E. #55983
C.A.N. 28677

STATE OF FLORIDA PROFESSIONAL ENGINEER

December 19th, 2024

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL
1	ES-SGD2020T-501	HEAD (2 TRACK)	6063-T6
1A	ES-SGD2020T-546	HEAD (2 TRACK) FOR SCREEN OPTION	
2	ES-SGD2020T-502	SILL (2 TRACK)	6063-T6
2A	ES-SGD2020T-547	SILL (2 TRACK) FOR SCREEN OPTION	6063-T6
2B	ES-SGD2020T-543	SILL (2 TRACK) FOR RISER	6063-T6
3	ES-SGD2020T-503	JAMB (2 TRACK)	6063-T6
4	ES-SGD2020T-005	HEAD COVER	6063-T5
5	ES-SGD2020T-009	SILL COVER	6063-T5
6	ES-SGD2020T-504	TRACK	6005-T6
7	ES-SGD2020T-016	JAMB COVER	6063-T5
8	ES-SGD2020T-505	TOP RAIL	6063-T6
9	ES-SGD2020T-506	BOTTOM RAIL	6063-T6
10	ES-SGD2020T-507	FIXED STILE PANEL	6063-T6
11	ES-SGD2020T-508	SLIDING STILE PANEL	6063-T6
12	ES-SGD2020T-509	INTERLOCK	6005-T5
13	ES-SGD2020T-510	INTERLOCK	6005-T5
14	ES-SGD2020T-027	COVER INTERLOCK	6063-T5
15	ES-SGD2020T-511	INTERLOCK	6005-T5
16	ES-SGD2020T-029	COVER INTERLOCK	6063-T5
17	ES-SGD2020T-512	INTERLOCK	6005-T5
18	ES-SGD2020T-513	ASTRAGAL	6005-T5
19	ES-SGD2020T-514	CORNER 90°	6005-T5
20	ES-SGD2020T-515	HEAD 3 TRACK	6063-T6
20A	ES-SGD2020T-548	HEAD 3 TRACK FOR SCREEN OPTION	6063-T6
21	ES-SGD2020T-516	SILL 3 TRACK	6063-T6
21A	ES-SGD2020T-549	SILL 3 TRACK FOR SCREEN OPTION	6063-T6
21B	ES-SGD2020T-544	SILL 3 TRACK FOR RISER	6063-T6
22	ES-6011	COVER	6063-T5
23	ES-SGD2020T-037	SILL COVER MULTITRACK	6063-T5
24	ES-SGD2020T-517	JAMB 3 TRACK	6063-T6
25	ES-SGD2020T-039	JAMB COVER MULTITRACK	6063-T5
26	ES-SGD2020T-518	HEAD - 4 TRACK	6063-T6
26A	ES-SGD2020T-550	HEAD - 4 TRACK FOR SCREEN OPTION	6063-T6
27	ES-SGD2020T-519	SILL - 4 TRACK	6063-T6
27A	ES-SGD2020T-551	SILL FOUR TRACK FOR SCREEN OPTION	6063-T6
27B	ES-SGD2020T-545	SILL FOUR TRACK FOR RISER	6063-T6
28	ES-SGD2020T-520	JAMB 4 TRACK	6063-T6
29	ES-SGD2020T-063	INTERLOCK POCKET	6005-T5
30	ES-SGD2020T-041	COVER POCKET 2 TRACK	6063-T6
31	ES-SGD2020T-042	COVER POCKET 3 TRACK	6063-T6
32	ES-SGD2020T-043	COVER POCKET 4 TRACK	6063-T6
41	ES-SGD2020T-529	ASTRAGAL 135°	6005-T5
42	BAL-P-001	PLATINA	6063-T6
43	ES-SGD2020-069	MALE CONNECTING MULLION	6063-T6
44	ES-W525-014	HEAD 2 TRACK WITHOUT SCREEN	6063-T6
45	ES-SD2020T-G01 S	GLAZING WET GASKET @ 1" GLASS THK	SILICONE 70 SHORE A
46	#10X3/4"	PHIL PAN TYPE A 18-8 SS, ASSEMBLY SCREW @ BASE & SNAP FIT BUMPER	STAINLESS STEEL
47	ES-SD2020T-G03 S	GLAZING WET GASKET @ 1 5/16" GLASS THK	SILICONE 70 SHORE A
48	ES-SD2020-G02 S	GLAZING GASKET FOR LAMINATED GLASS	SILICONE 70 SHORE A
49	ES-SGD1010T-015	TOP LAMINATED ADAPTOR	6063-T6
50	ES-SGD2020T-101	BOTTOM LAM. GLASS ADAPTOR	6063-T5
51	ES-SD2020T-G07 S	SEAL GASKET @ ASTRAGAL	SILICONE 60 SHORE A
52	ES-SGD2020-B03 E	WEEP HOLE PLUG	SILICONE 70 SHORE A
53	ES-6500-G02 E	SEAL GASKET @ INTERLOCK	SILICONE 70 SHORE A
54	ES-9550-B01A S	SIDE BLOCK @ WET GLAZED SYSTEM	SILICONE 90 SHORE A
55	ES-SD2020T-P01 P	PANEL SUPPORT @ FIXED BOTTOM RAIL	EPDM
56	ES-SGD1010T-016	VERTICAL POCKET ADAPTOR	6063-T6
57	PENDING	WEEP INTERLOCK	PENDING
58	WEEP FOAM	WEEP OPEN CELL FOAM 3/8" x 5/8" x 3/4"	OPEN CELL FOAM 30 PPI @ WA2L WEEP COVER
59	ES-SD2020-F01	WEEP OPEN CELL FOAM @ ES-SD2020-C02	OPEN CELL FOAM 30 PPI @ WA2L WEEP COVER

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL
60	W2322ING	WEATHERSTRIPPING PILE	POLYETHYLENE
61	W2324ING	WEATHERSTRIPPING PILE	POLYETHYLENE
62	W2332ING	WEATHERSTRIPPING PILE	POLYETHYLENE
63	187N850-120KL	ULTRA TECT PILE BLACK @ POCKET DOOR	POLYETHYLENE
64	ES-SD2020T-FE01	ADHESIVE WEATHERSTRIPPING	POLYETHYLENE
65	ES-SD2020T-FE02	ADHESIVE WEATHERSTRIPPING	POLYETHYLENE
66	ES-SD2020-C02	WEEP COVER BLACK	POLYETHYLENE
67	WA2L-BLK WA2L-SLV WA2L-WHT WA2L-BZE	WEEP COVER BLACK, SILVER, WHITE OR BRONZE	POLYPROPYLENE
68	GTT-15006-HKA-01-TE	TANDEM ROLLER	ZAMAK & ACETAL
69	2-500-180-P BLACK 2-500-100-P WHITE 2-500-171-P GREY	HOLE COVER 1/2"	POLYETHYLENE
70	BASE & SNAP-FIT	BUMPER BASE & SNAP-FIT CAP BLACK,WHIT & GREY	NYLON 6
71	PS01-0035-00B	2 POINT MORTISE LOCK	ZINC DIE CAST
72	PS01-0060-00B	2 POINT LOCK STRIKER 1.03" TO 1.15" @ ASTRAGAL	STAINLESS STEEL
73	PS01-1005-00B	2 POINT LOCK STRIKER 1.35" TO 1.45" @ FRAME JAMB	STAINLESS STEEL
74	PS01-0205-000 WHT PS01-0205-115 BRZ PS01-0205-117 SILV PS01-0205-00B BLK	CREST TURN LEVER	ZAMAK
75	PS01-0208-000 WHT PS01-0208-115 BRZ PS01-0208-117 SILV PS01-0208-00B BLK	CREST HANDLE INT-EXT	ZAMAK
76	PS01-0206-000 WHT PS01-0206-115 BRZ PS01-0206-117 SILV PS01-0206-00B BLK	INTERIOR CREST HANDLE	ZAMAK
77	PS01-3124-000 WHT PS01-3124-115 BRZ PS01-3124-117 SILV PS01-3124-00B BLK	EXTERIOR LOCKING CREST SLIDE HANDLE	ZAMAK
78	10x1 1/4 Phil Pan Type A 18-8ss	PANEL ASSEMBLY SCREW	STAINLESS STEEL
79	10x1 HWH SELF DRILLER 18-8SS	ASSEMBLY SCREW @STEEL REINFORCEMENT PLATE	STAINLESS STEEL
80	10x3/4 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ BASE & SNAP FIT BUMPER	STAINLESS STEEL
81	10x1/2 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ INTERLOCK POKET ADAPTOR	STAINLESS STEEL
82	8x1 1/2 Phil Flat Type A 18-8ss	ASSEMBLY SCREW @ PANEL WITH ASTRAGAL	STAINLESS STEEL
83	8x1-1/4 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ ASTRAGAL STRIKER	STAINLESS STEEL
84	8x3/4 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ ASTRAGAL & CORNER STRIKER	STAINLESS STEEL
85	8x1/2 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ JAMB STRIKER	STAINLESS STEEL
86	6x1/2 Phil Flat Type A 18-8ss	ASSEMBLY SCREW @ FIXED PANEL SUPPORT	STAINLESS STEEL
87	Tornillo #12 x 1-1/2" P.H. P8-7	ASSEMBLY SCREW @ FRAME	STAINLESS STEEL
88	Tornillo #8 x 1-1/2" P.H. P8-7	ASSEMBLY SCREW @ PANEL	STAINLESS STEEL
89	Tornillo #10 x 3/4" F.H. P8-7	ASSEMBLY SCREW @ PLATE	STAINLESS STEEL
90	PS01-3002-000 WHT PS01-3002-115 BRZ PS01-3002-117 SILV PS01-3002-00B BLK	EXTERIOR FLUSH HANDLE	ZAMAK
91	PS01-0312-000 WHT PS01-0312-115 BRZ PS01-0312-117 SILV PS01-0312-00B BLK	LOCKING INVISIO HANDLE	ZAMAK
92	PS01-0313-000 WHT PS01-0313-115 BRZ PS01-0313-117 SILV PS01-0313-00B BLK	NON LOCKING INVISIO HANDLE	ZAMAK
93	180259 180260	CYLINDER KEYED DIFFERENT KEYED ALIKE CYLINDER	BRASS
94	M5 X 0.8 RN58033*LR	RIVET NUT	STAINLESS STEEL
95	ES-SD2020T-C01	ASTRAGAL NOTCH COVER (NEW)	POLYPROPYLENE
96	ES-SD2020T-C02	INTERLOCK NOTCH COVER (NEW)	POLYPROPYLENE
97	SGD 1600	BUMPER @ POCKET DOOR	ZAMAK
98	ES-SD2020T-FE03	ADHESIVE WEATHERSTRIPPING @INTERLOCK	POLYPROPYLENE

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YIMING WANG P.E.
FLORIDA REGISTRATION
LICENSE
No 55983
C.A.N. 28577
STATE OF FLORIDA
PROFESSIONAL ENGINEER
December 19th, 2024

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL
99	REINFORCEMENT	STEEL PLATE 1/2" x 3" x LENGTH	GALVANIZED STAINLESS STEEL
100	PS01-5014	M4x50 CSK SS PHILIPS @EXTERIOR PULL HANDLE	STAINLESS STEEL
101	REINFORCEMENT	STEEL PLATE 1/2" x 1 1/2" x LENGTH	GALVANIZED STAINLESS STEEL
102	ASTRAGAL REINFORCEMENT	STEEL REINFORCEMENT 1 1/2" X 1 1/2" X 0.1875	GALVANIZED STAINLESS STEEL
103	ASTRAGAL CORNER REINFORCEMENT (90°)	STEEL PLATE 1/4" x 1 1/2" x LENGTH	GALVANIZED STAINLESS STEEL
104	ASTRAGAL CORNER REINFORCEMENT (90°)	STEEL PLATE 1/4" x 1 1/4" x LENGTH	GALVANIZED STAINLESS STEEL
105	ES-S-001	SCREEN	6063-T5
106	ES-SGD2020-008	STANDARD SILL RISER	6063-T6
107	ES-SGD2020-007	STANDARD SILL RISER	6063-T6
108	ES-SGD2020-041	STANDARD SILL RISER	6063-T6
109	ES-SGD2020-040	STANDARD SILL RISER	6063-T6
110	ES-S-002	SCREEN	6063-T5
111	ES-004	BALANCE GUIDE	NYLON
112	Q26647DK	ULTRAFAB	POLYPROPYLENE

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