

TECNOGLASS LLC
ES-SGD 2020TG SLIDING GLASS DOOR
SMALL MISSILE IMPACT

THIS PRODUCT IS AN ALUMINUM SLIDING GLASS DOOR, SMALL MISSILE IMPACT RESISTANT, THAT CAN BE USED AT ELEVATIONS ABOVE 30'-0" OF GRADE LEVEL WITHOUT HURRICANE PROTECTIVE SHUTTERS. SHUTTERS ARE REQUIRED WHEN PRODUCT USED FOR ELEVATIONS BELOW 30'-0" ABOVE GRADE LEVEL.

LAMINATED GLASS AND INSULATED-LAMINATED GLASS SMALL MISSILE IMPACT.

SERIES SGD 2020TG SLIDING GLASS DOOR

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

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

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

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

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

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

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

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

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

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

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

STEP 2 SEE ALLOWABLE CONFIGURATIONS ON SHEETS E6 THROUGH E12. SEE CHARTS ON SHEET G1 & G2 FOR ALLOWABLE DESIGN LOAD BASED ON DESIRED GLASS TYPE. SEE CHARTS ON SHEET K1 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 A1 & A2 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	

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.

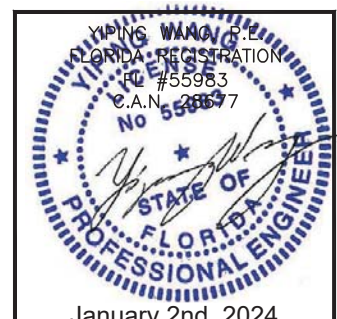
B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

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.

FL46130.4



ES-SGD2020IG SLIDING GLASS DOOR (SMI)

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301


 MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

R.I.	12.21.2023	James	NEW APPLICATION
Rev. No.	Date	Drawn By	Description

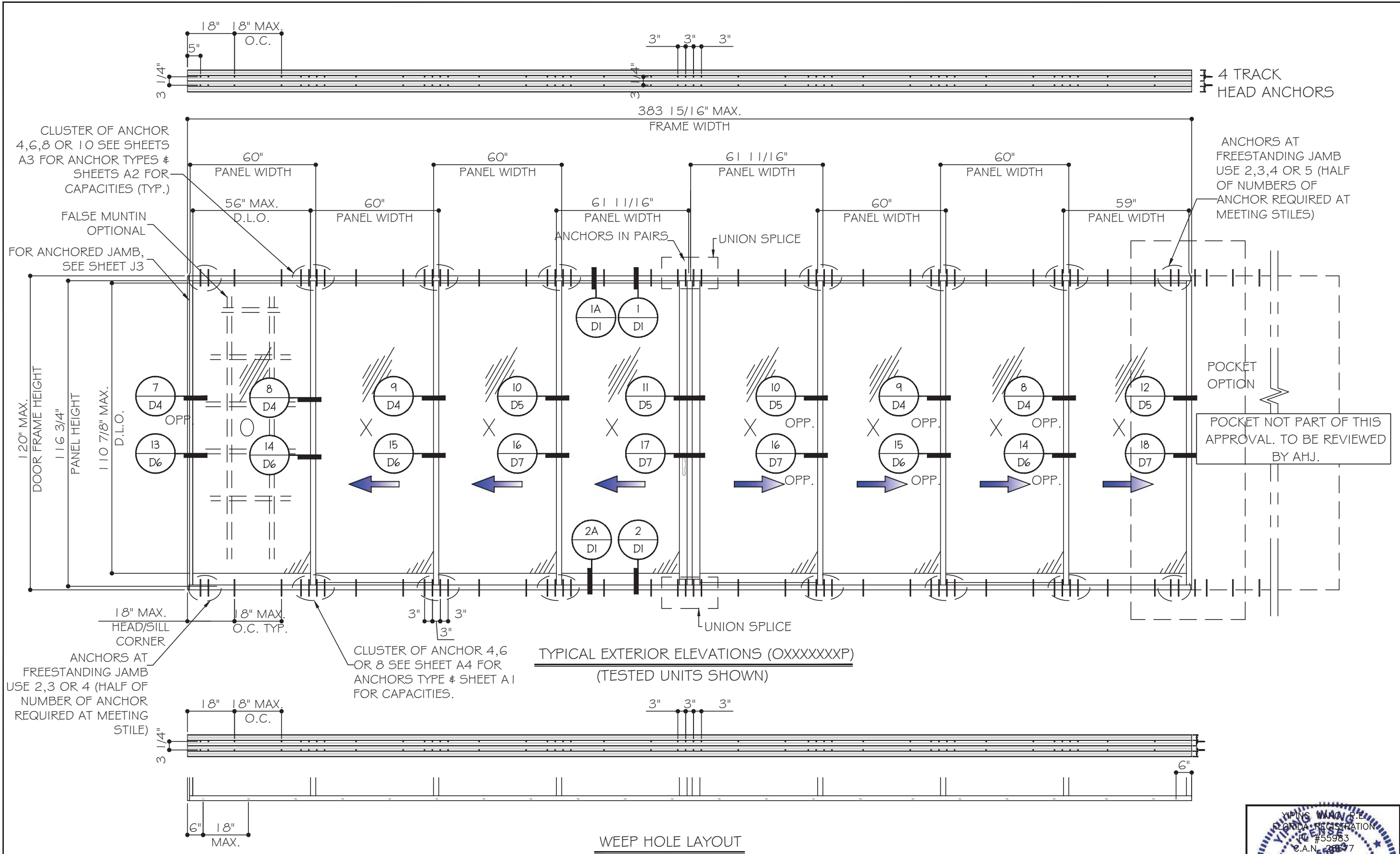
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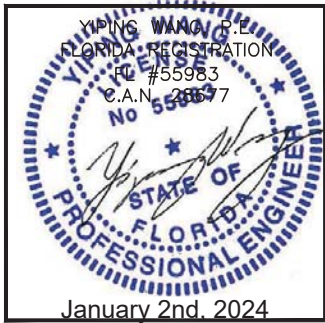
AD23-79

COVER

Sheet No.
1 OF 55



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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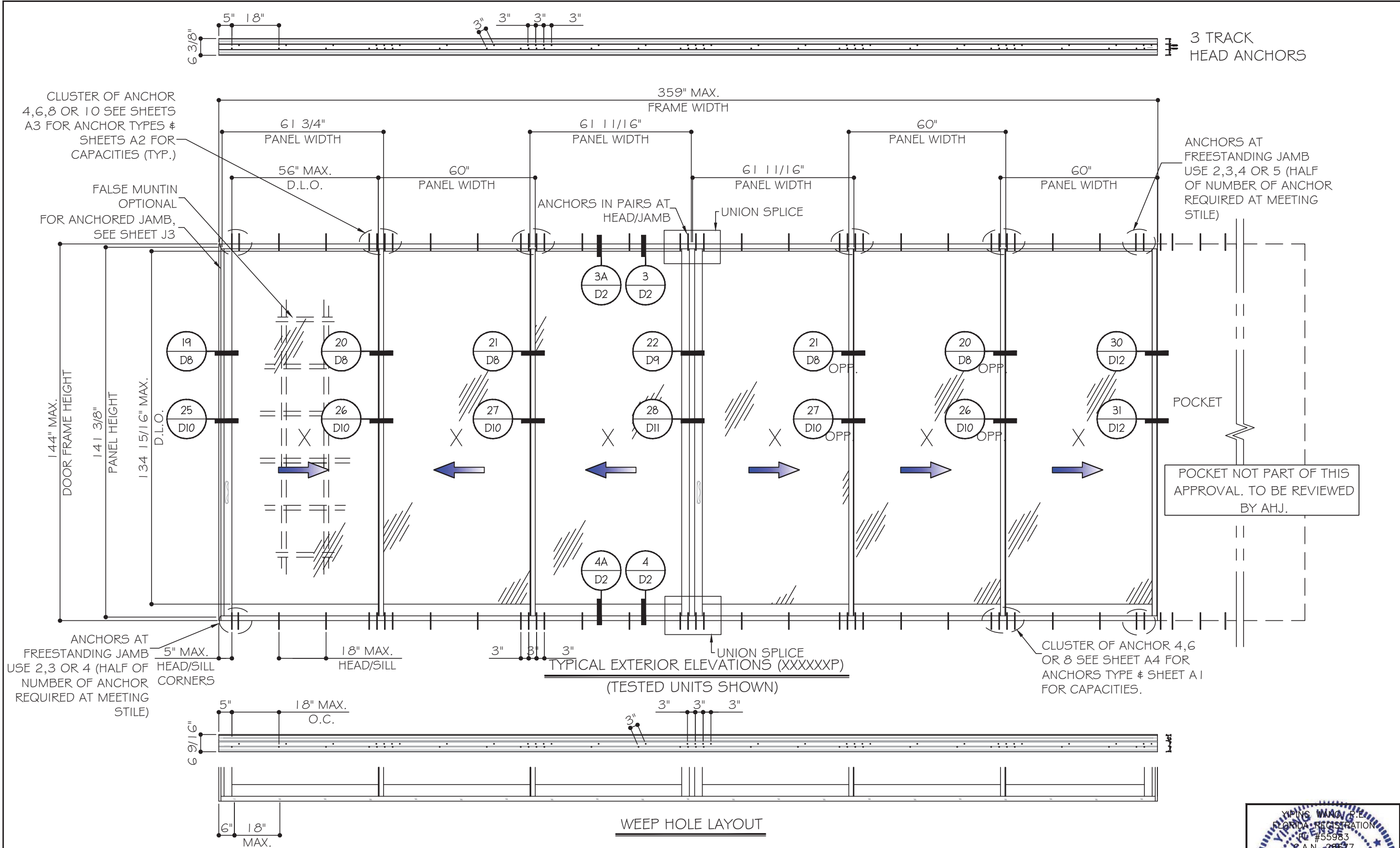
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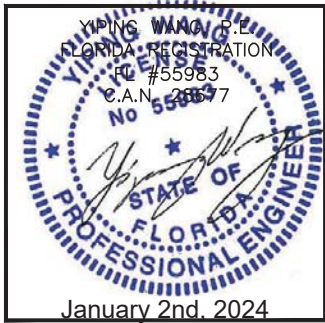
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E1

Sheet No.
02 OF 55



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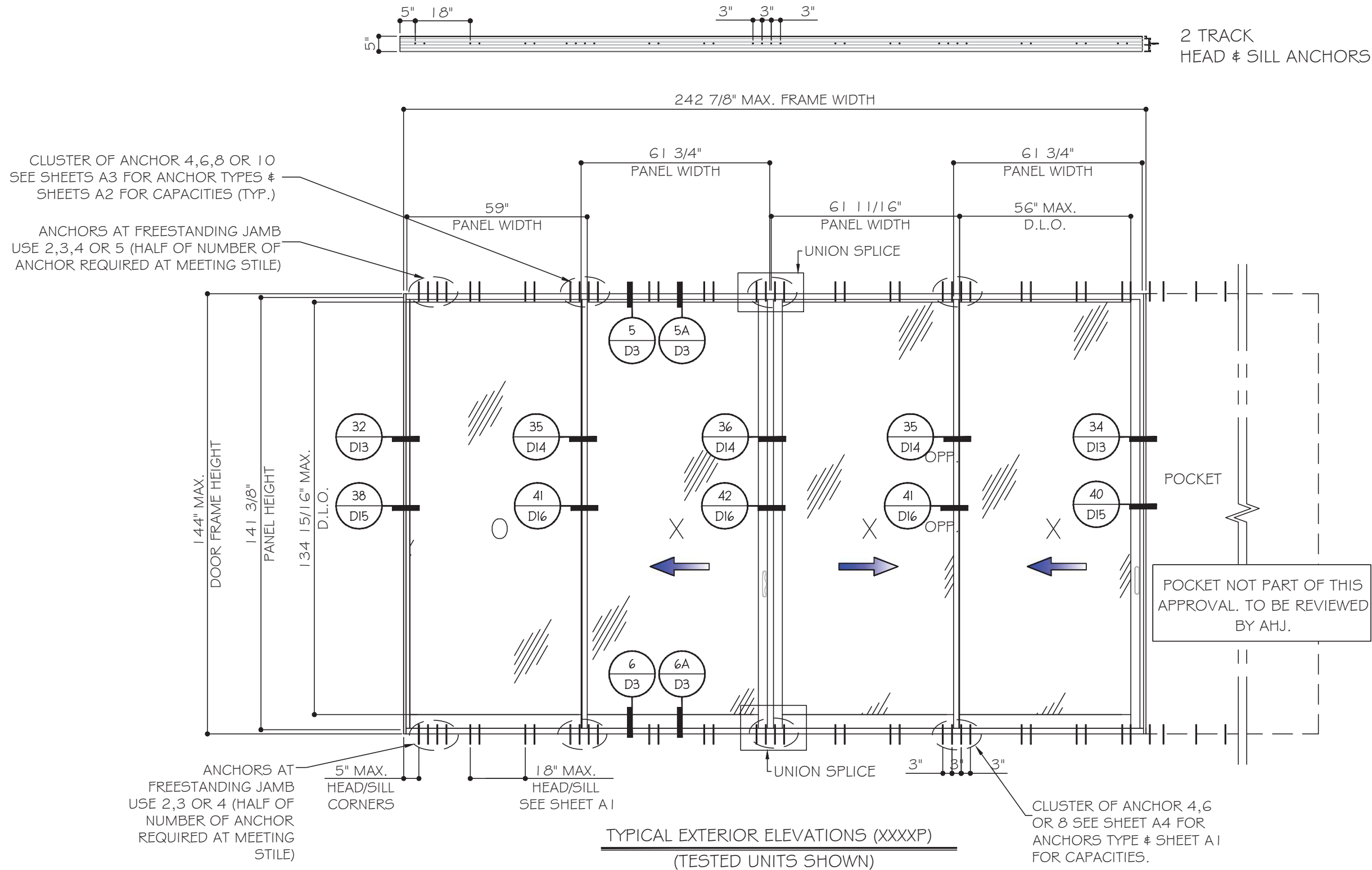
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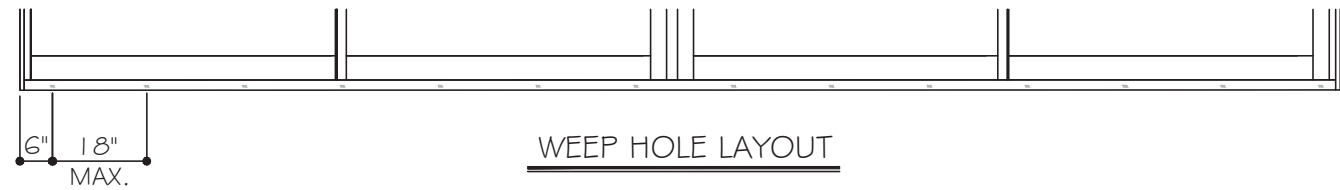
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E2

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03 OF 55



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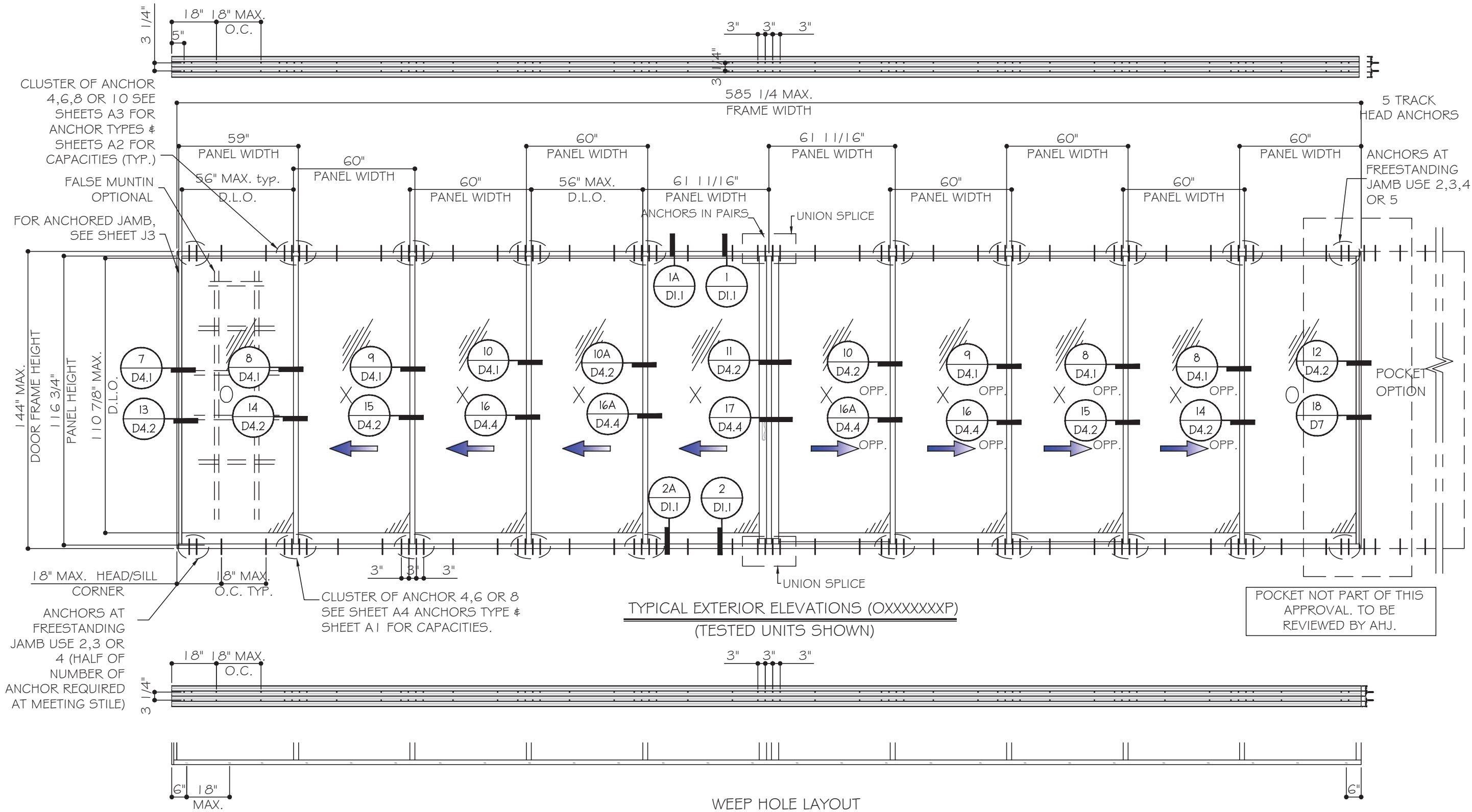
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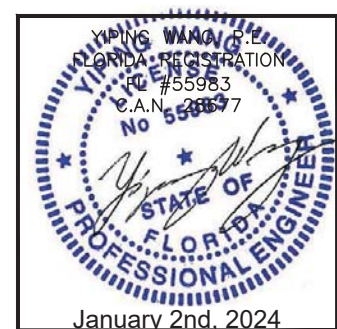
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04 OF 55



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FOR INTERLOCK CAPACITY
SEE CHARTS
SHEET K.I



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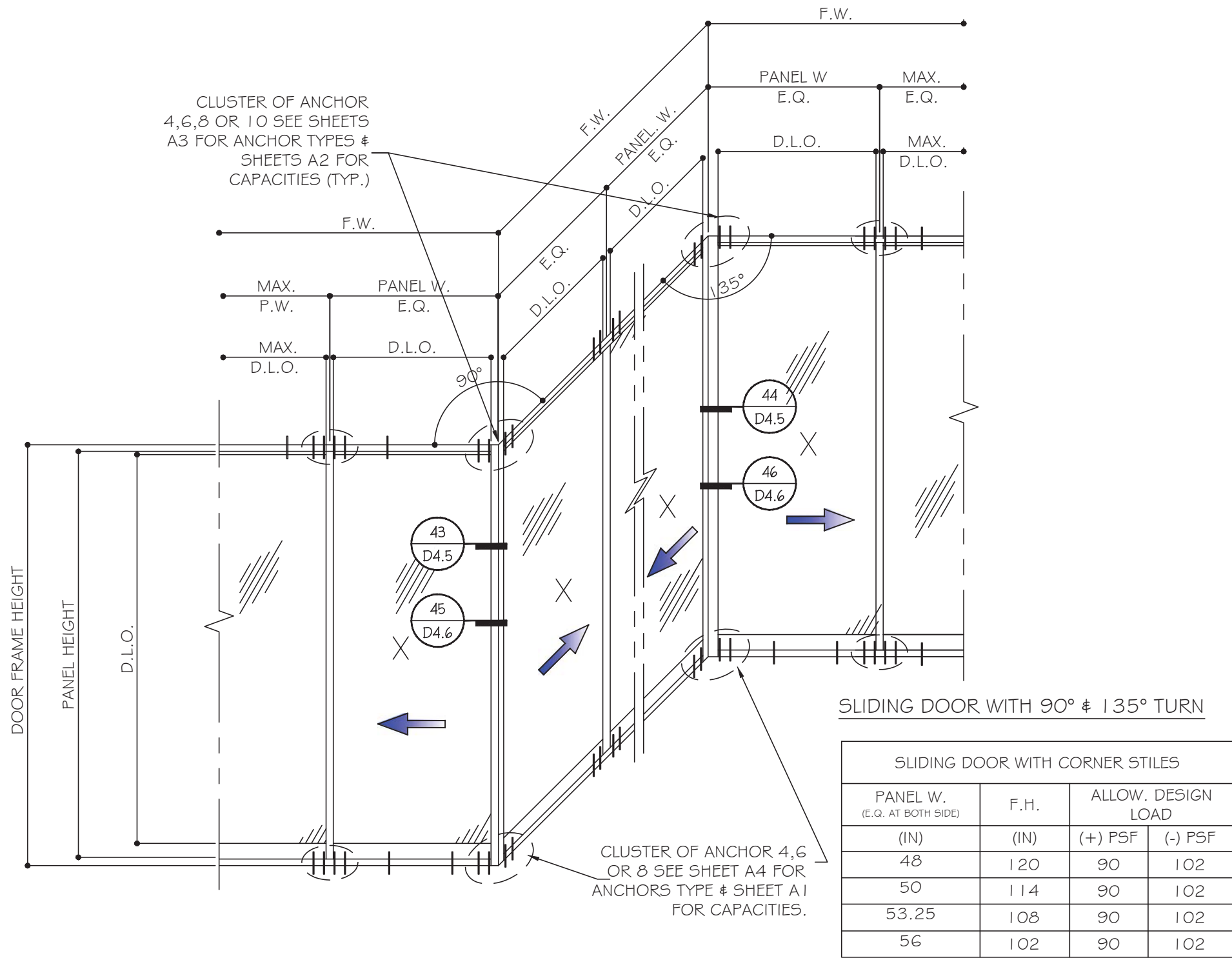
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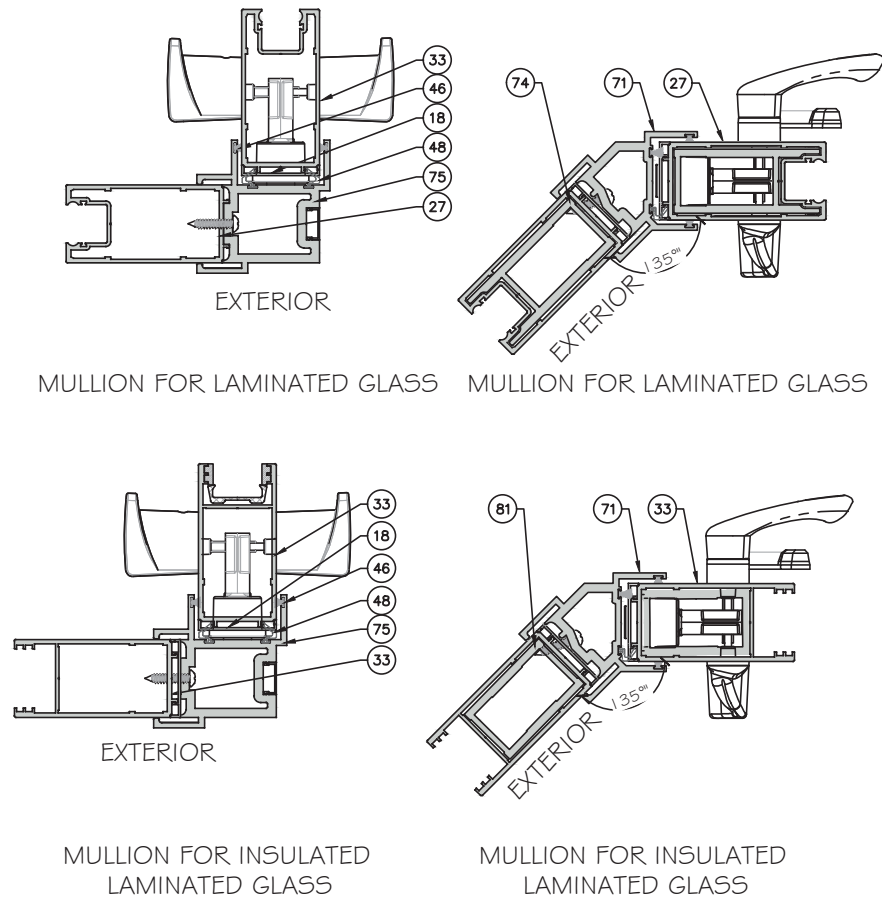
Sheet No.
05 OF 55



CORNER MULLIONS

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

CORNER MULLION



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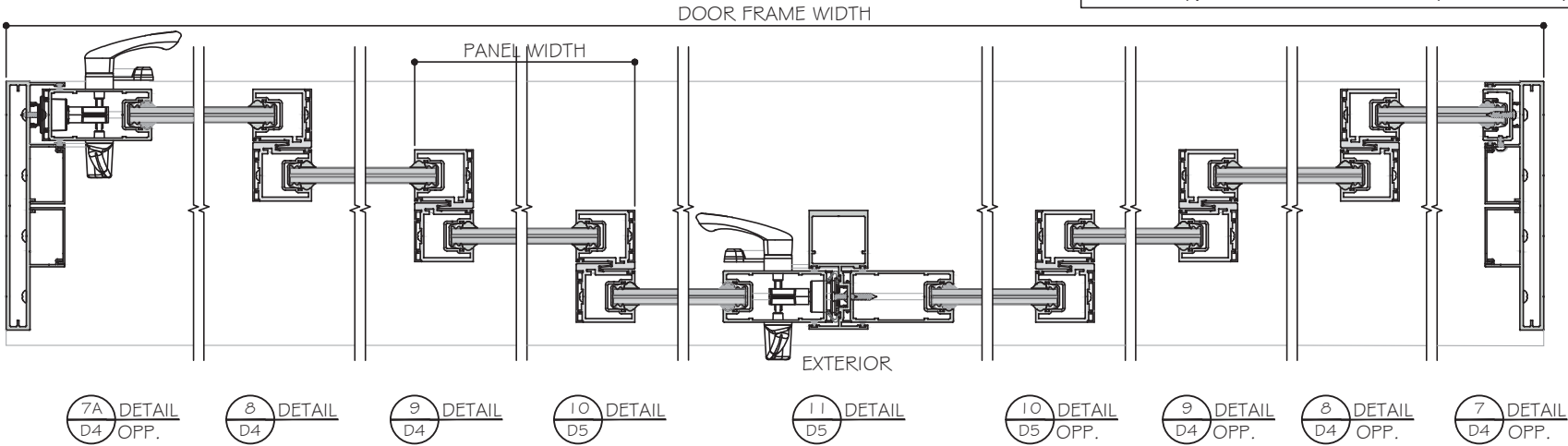
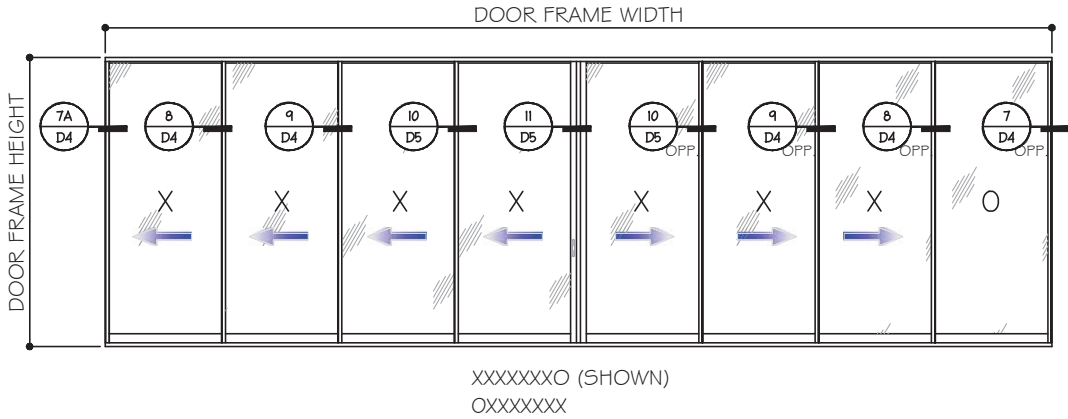
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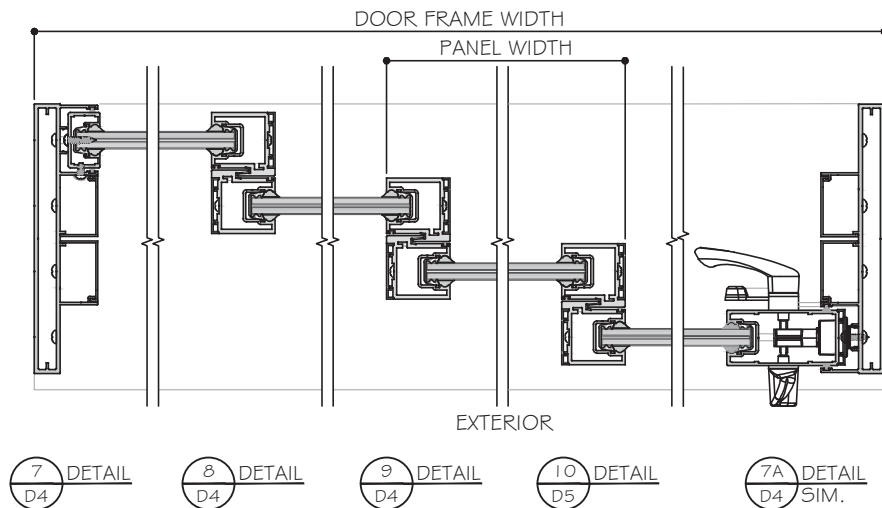
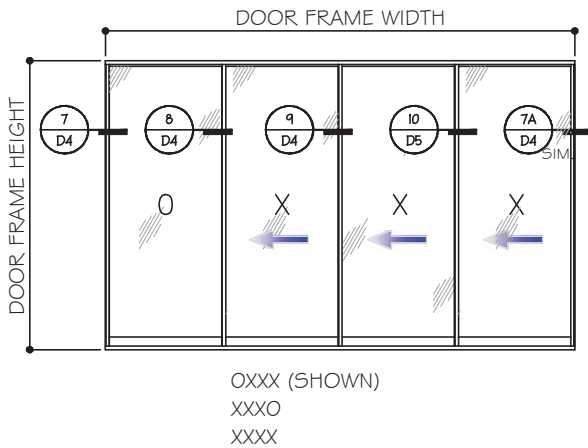
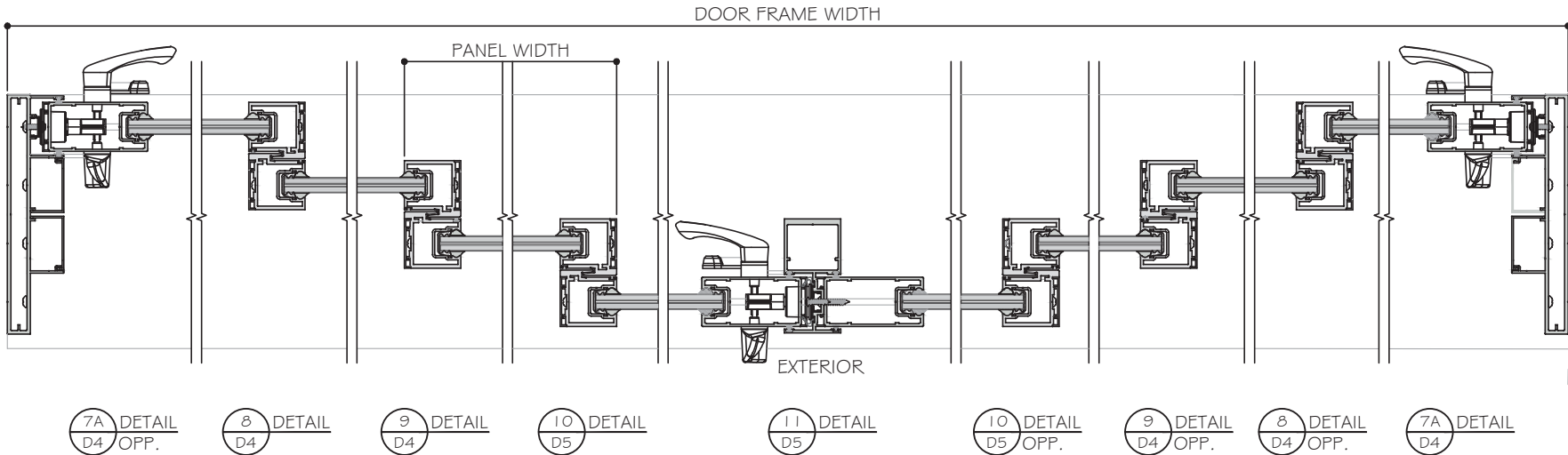
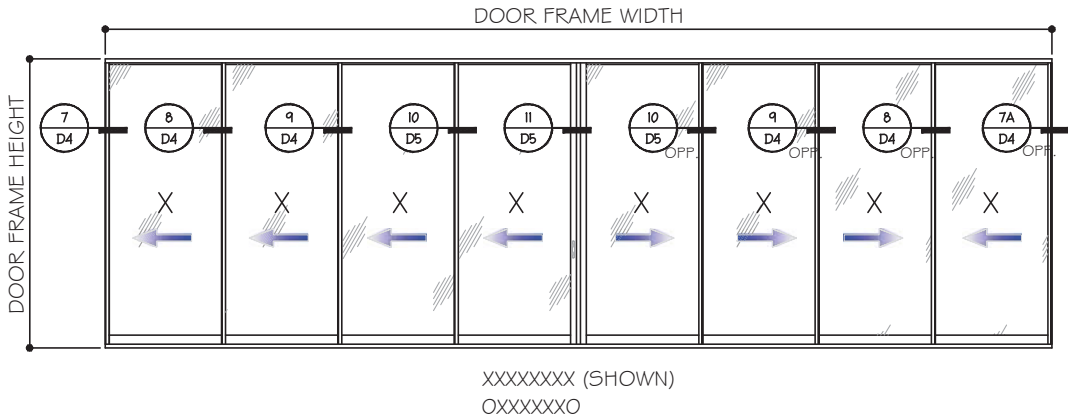
Sheet No.
06 OF 55

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



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

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



- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G1#G2 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 A4.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

FOUR (4) TRACKS

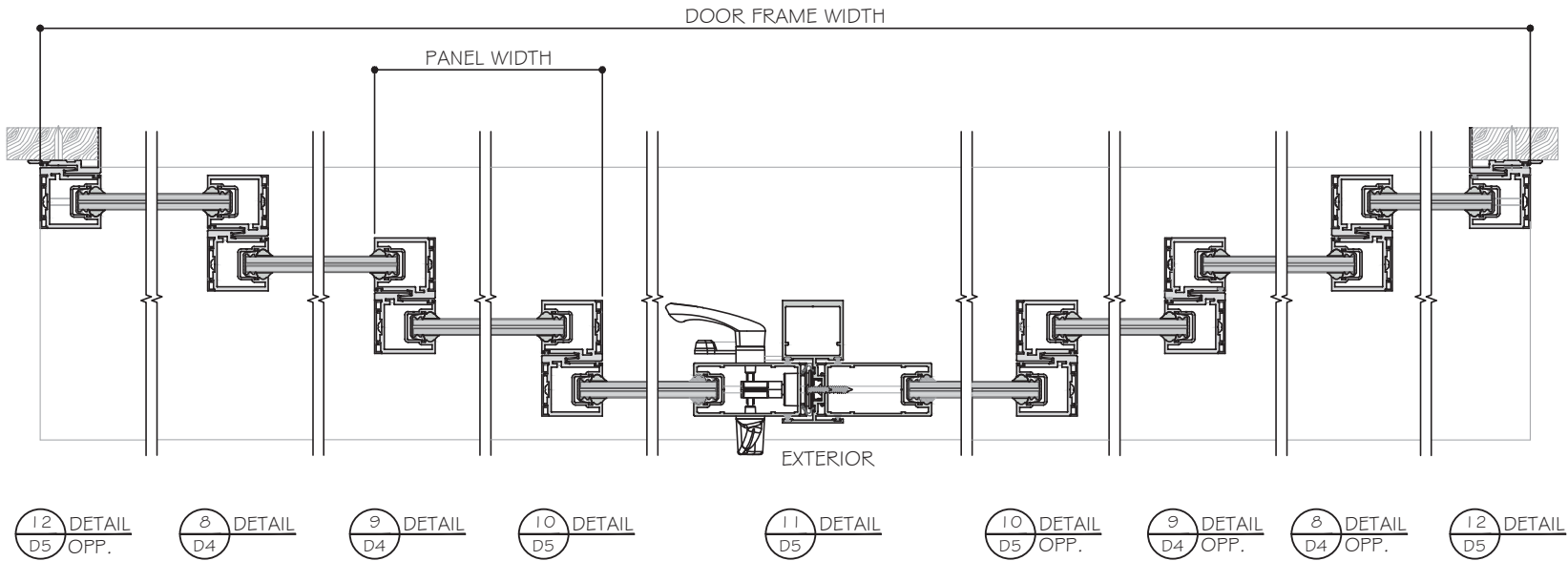
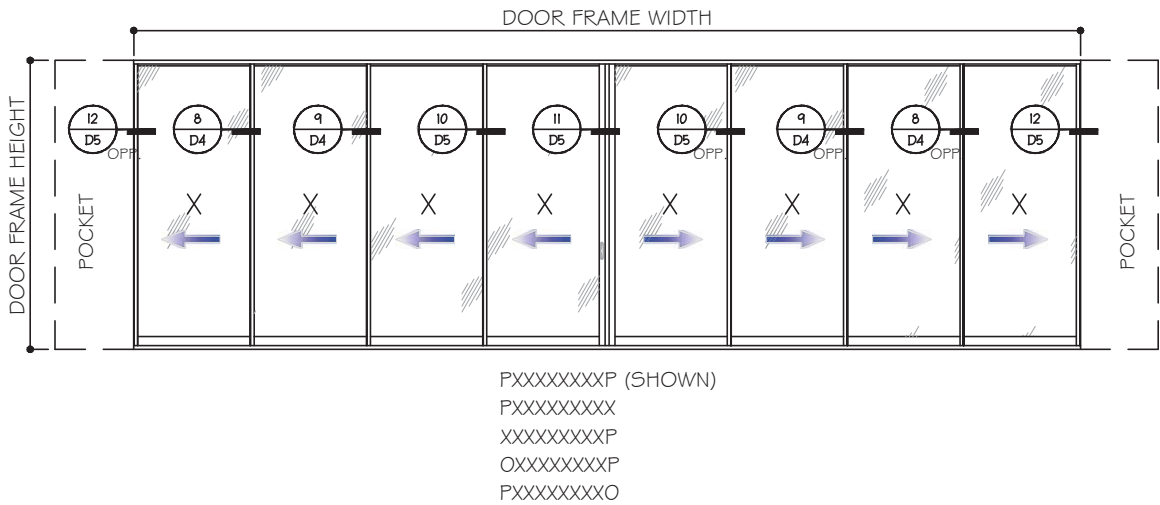
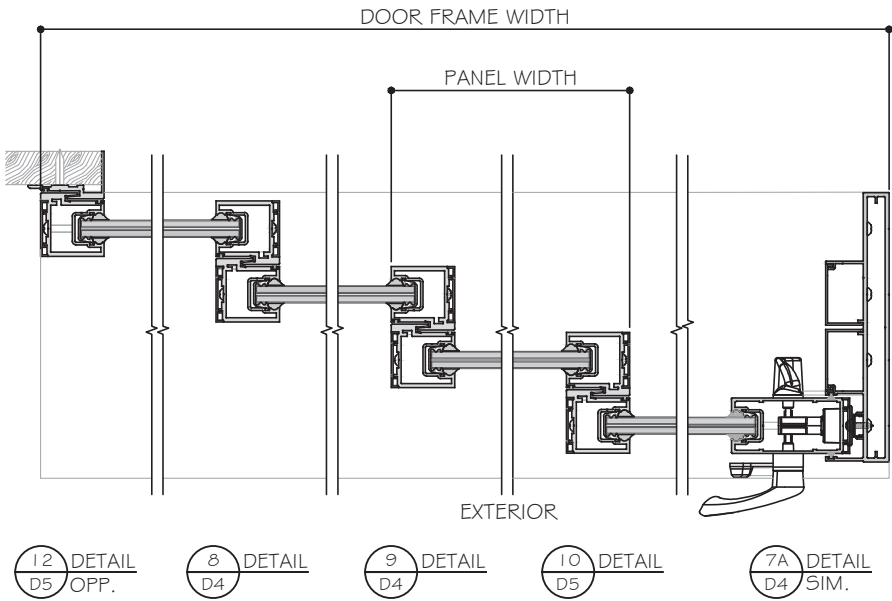
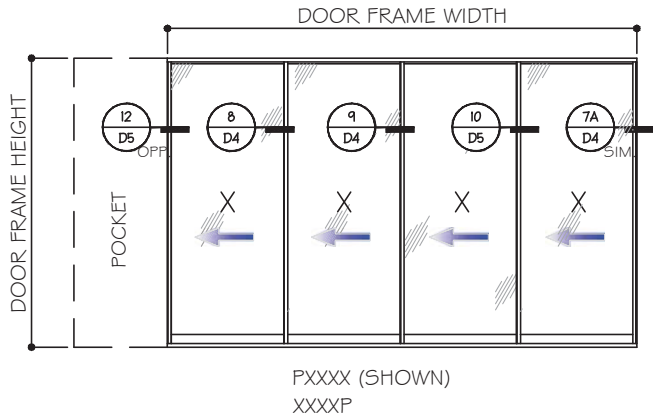


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DRAWING NO.	AD23-79		
Sheet No.	07 OF 55		

APPROVED CONFIGURATION POCKETED DOORS
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SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



LAMINATED GLASS OPTIONS SHOWN.
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FOUR (4) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
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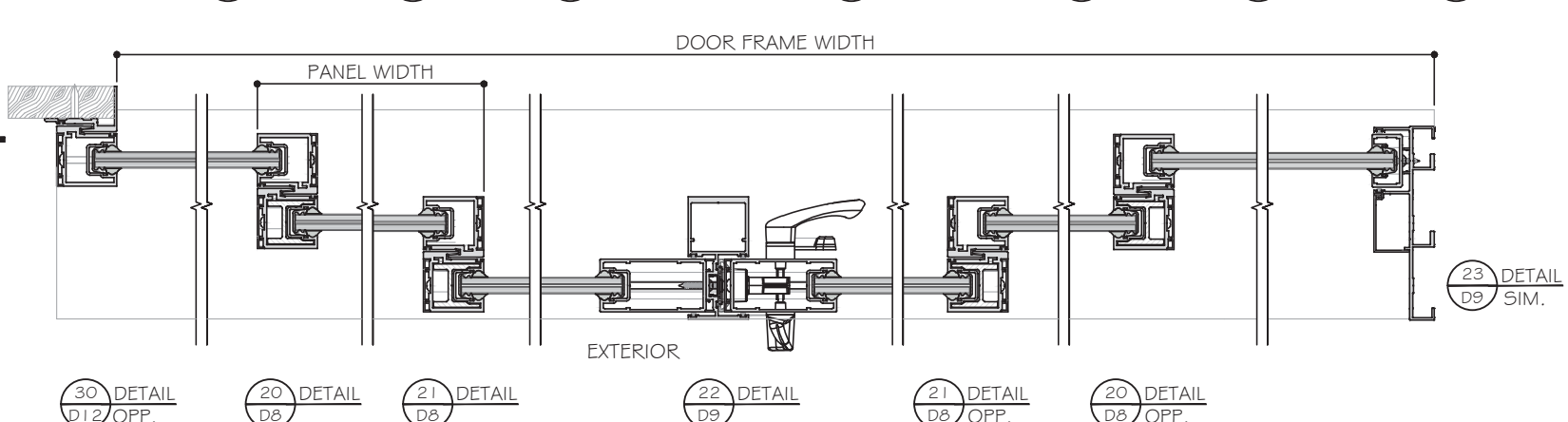
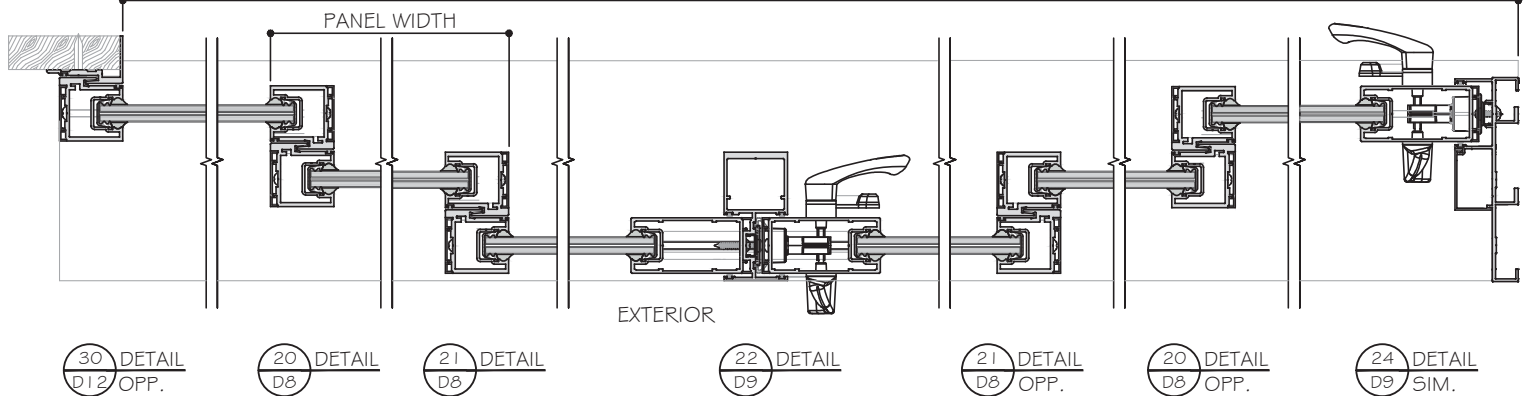
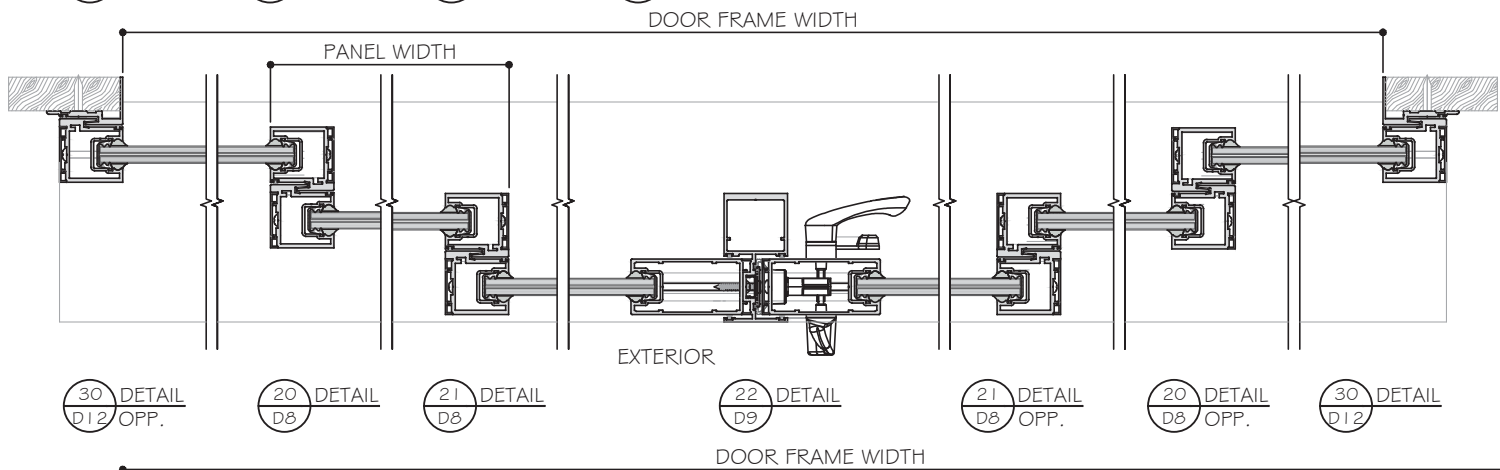
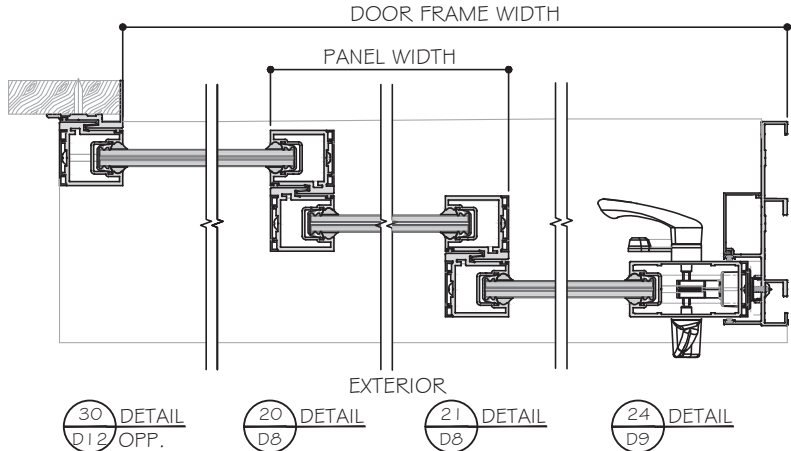
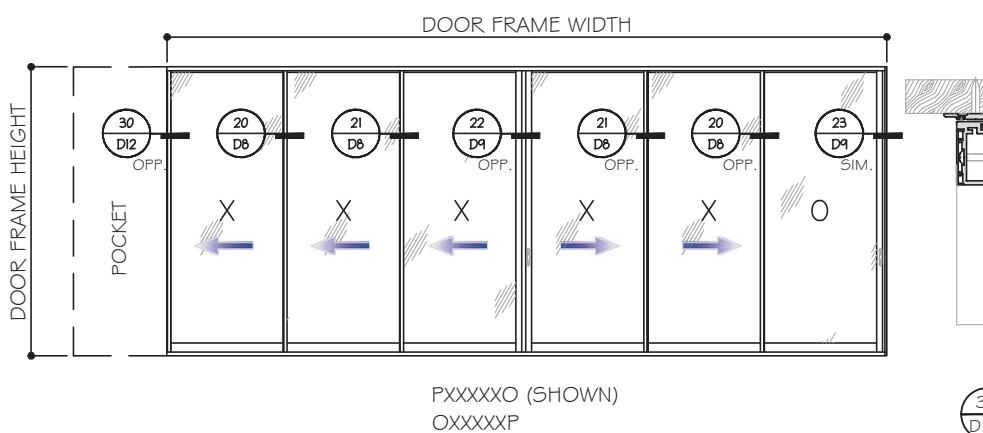
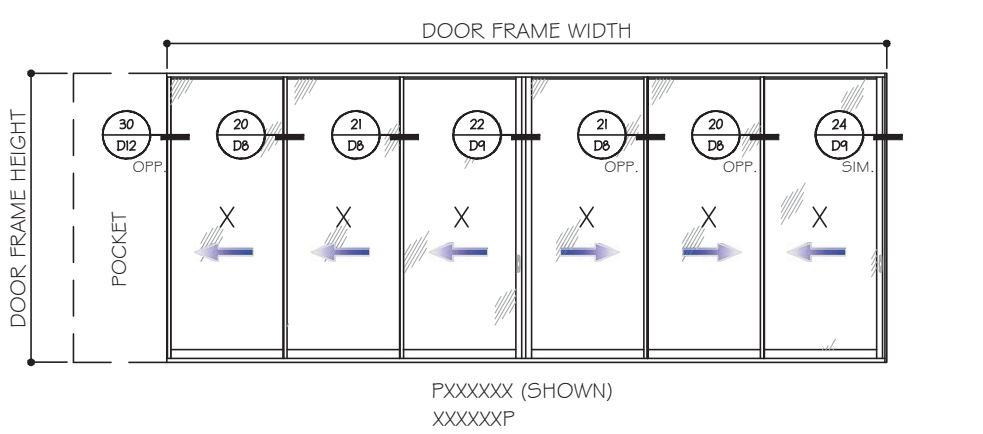
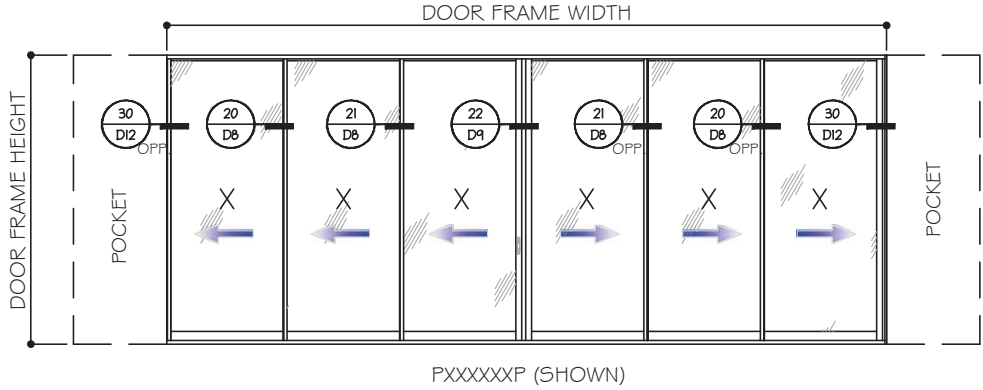
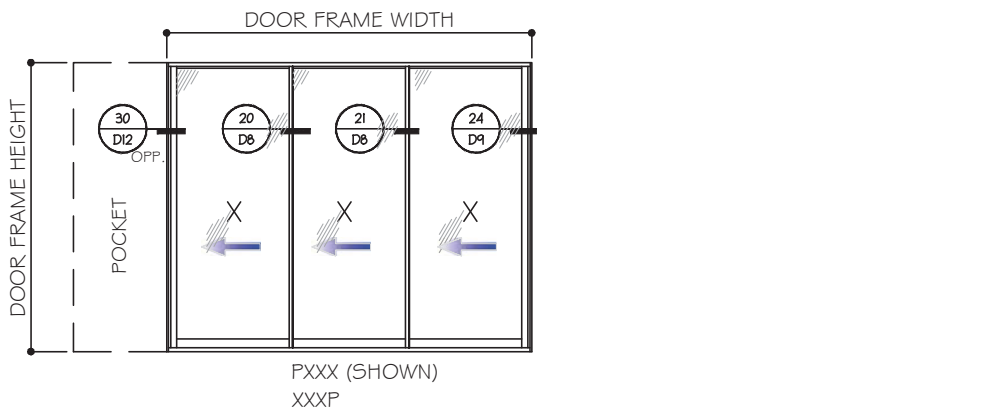
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08 OF 55

APPROVED CONFIGURATION POCKETED DOORS

(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR Dp AND REINFORCING OPTIONS



NON-REINFORCED DETAILS SHOWN.
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THREE (3) TRACKS

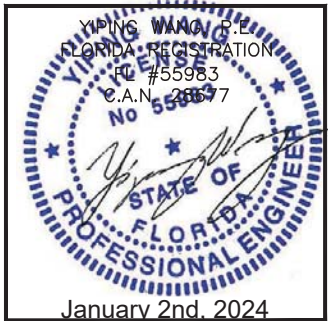
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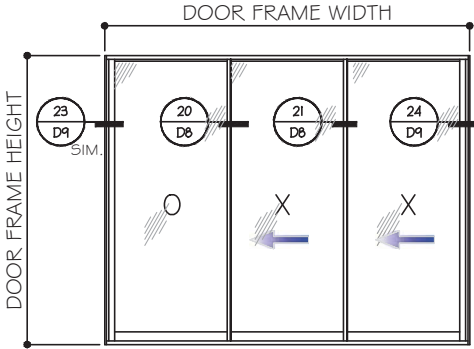
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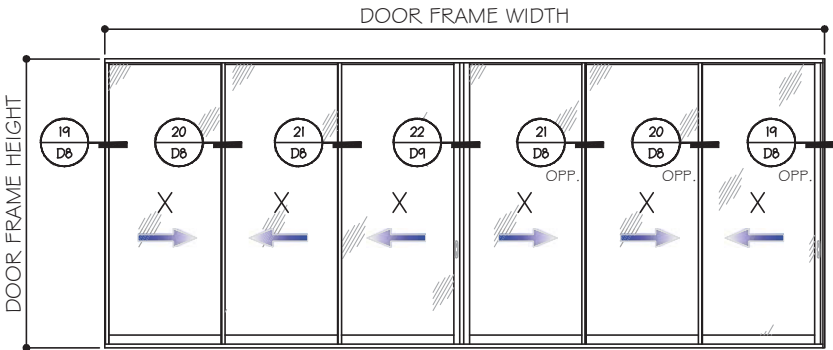
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Sheet No.	09 OF 55		



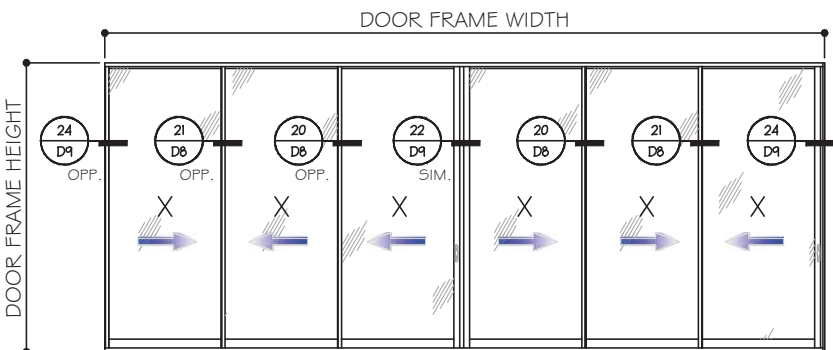
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
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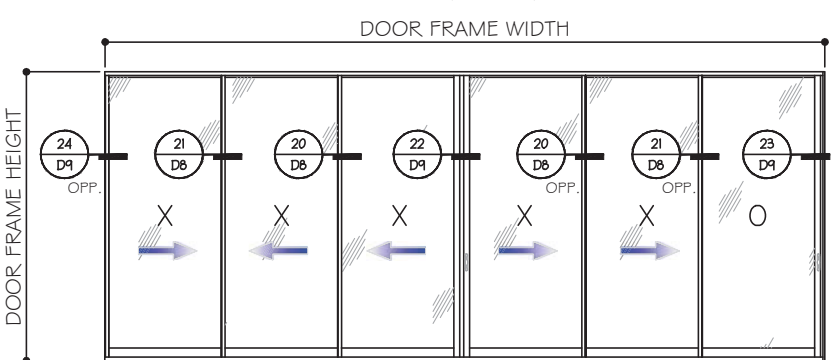
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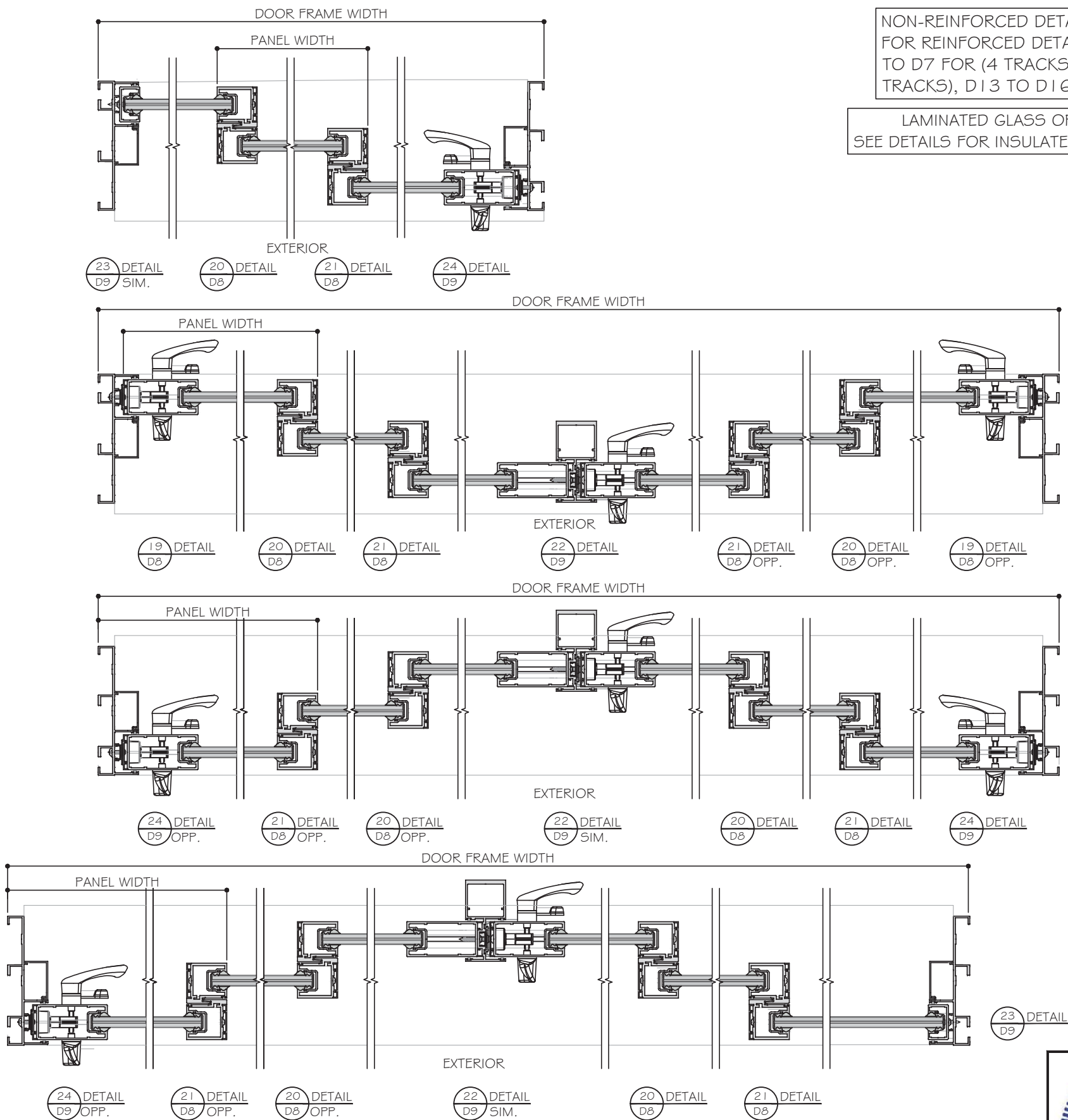
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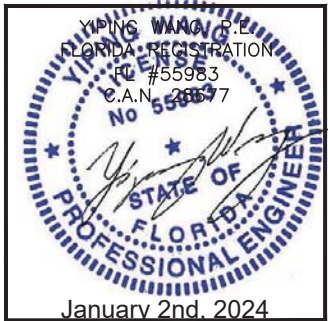
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 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A4.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

THREE (3) TRACKS

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



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ES-SGD2020TG SLIDING GLASS DOOR (SMI)

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev.	Date	Drawn By	Description
1	12.27.2023	James	NEW APPLICATION

Drawn Date: 12.27.2023

Scale: AS SHOWN

DRAWING NO. AD23-79

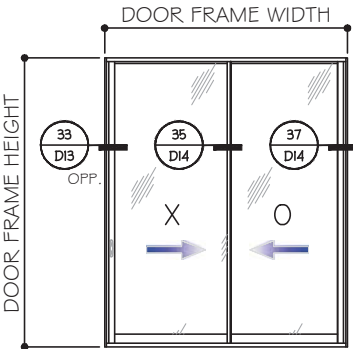
E9

Sheet No. 10 OF 55

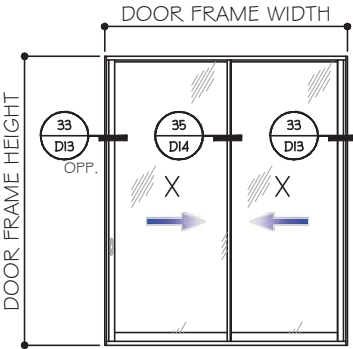
APPROVED CONFIGURATION DOORS

(NON-REINFORCED SHOWN)

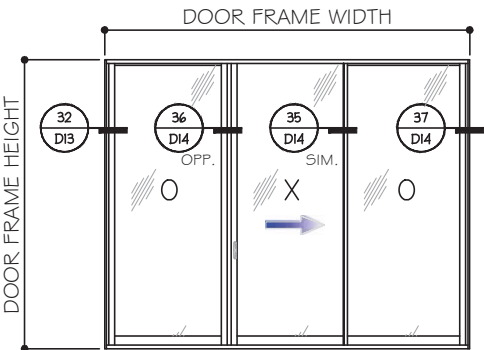
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



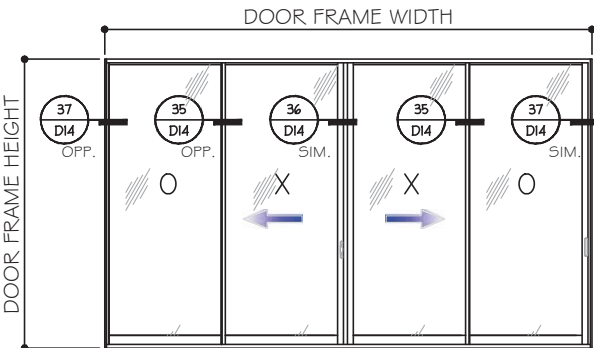
XO (SHOWN)
OX



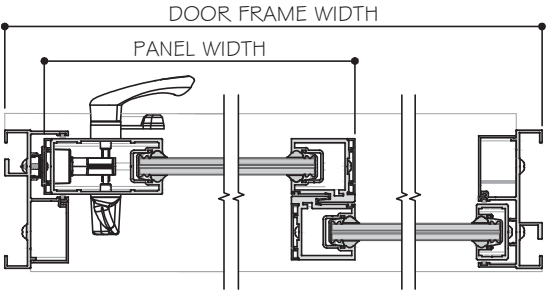
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OXO (SHOWN)
OXO (REVERSE)



OXO (SHOWN)
XXXX (SIMILAR)

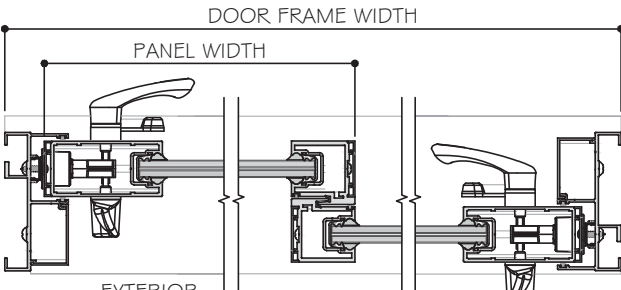


EXTERIOR

33 D13
DETAIL
OPP.

35 D14
DETAIL

37 D14
DETAIL

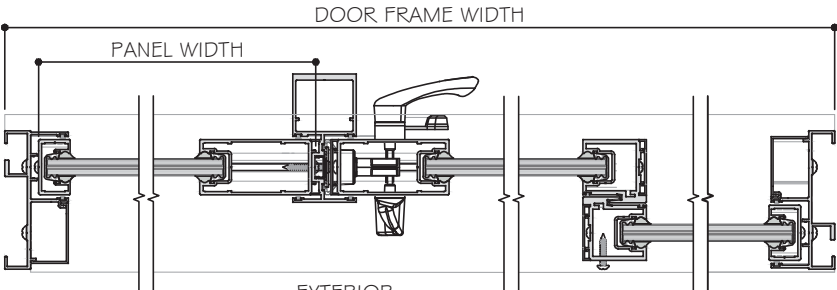


EXTERIOR

33 D13
DETAIL
OPP.

35 D14
DETAIL

33 D13
DETAIL
SIM.



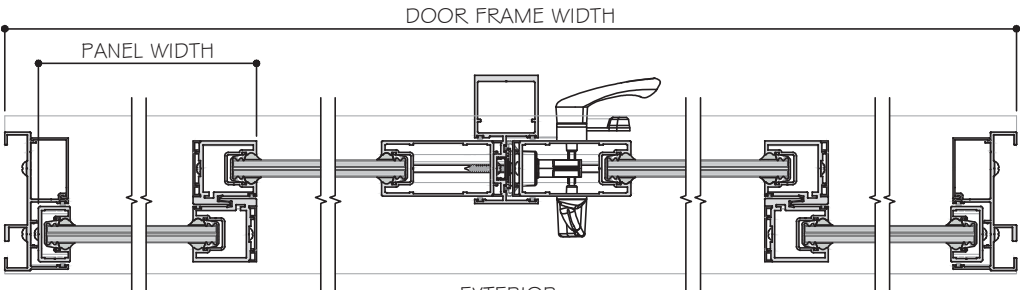
EXTERIOR

32 D13
DETAIL

36 D14
DETAIL
OPP.

35 D14
DETAIL
SIM.

37 D14
DETAIL



EXTERIOR

37 D14
DETAIL
OPP.

35 D14
DETAIL
OPP.

36 D14
DETAIL
SIM.

35 D14
DETAIL

37 D14
DETAIL

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.

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).

TWO (2) TRACKS

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ES-SGD2020TG SLIDING GLASS DOOR (SGM)

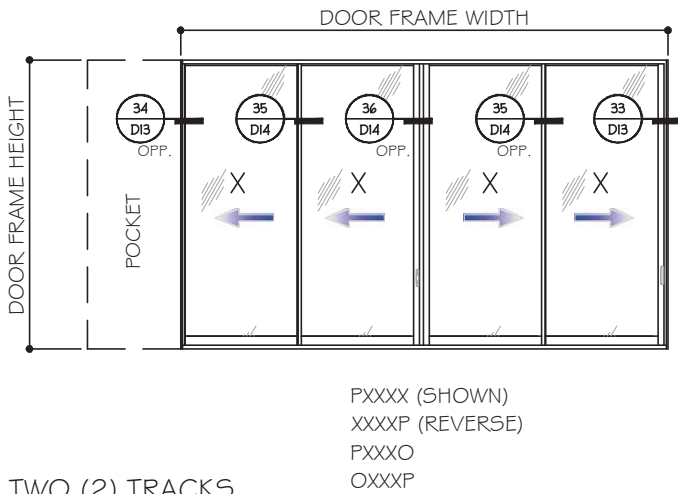
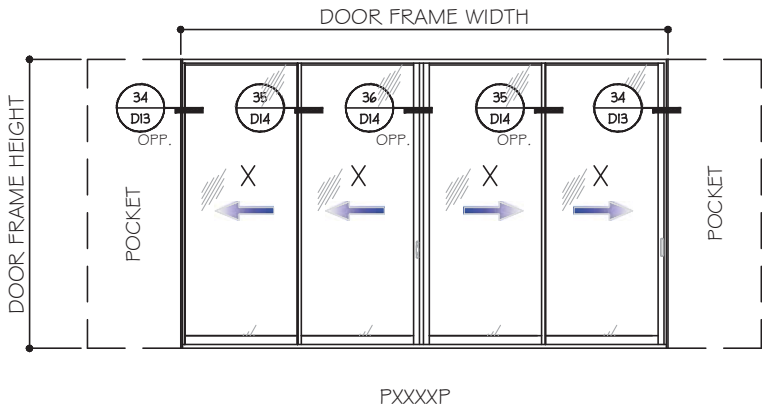
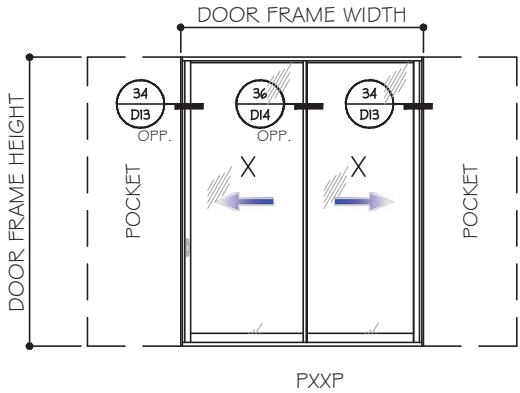
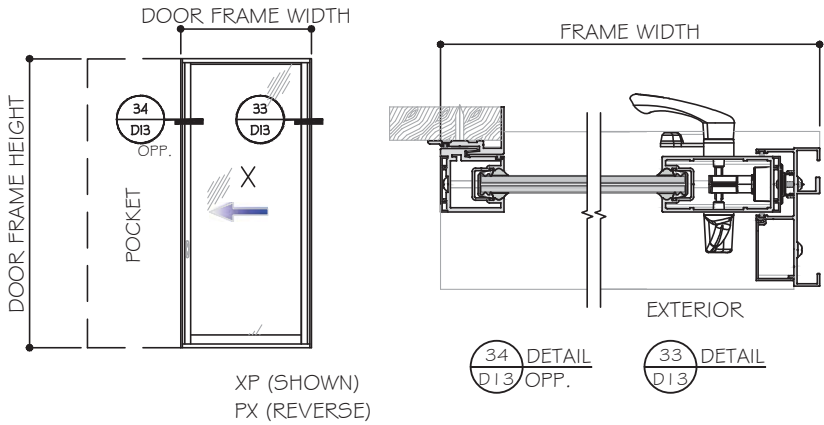
TECNOGLASS, LLC
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Rev	Date	Drawn By	Description
K1	12.21.2023	James	NEW APPLICATION
Drawn Date	12.27.2023	Scale	AS SHOWN
DRAWING NO.			
AD23-79			
E10			
Sheet No.			
11 OF 55			

APPROVED CONFIGURATION POCKETED DOORS

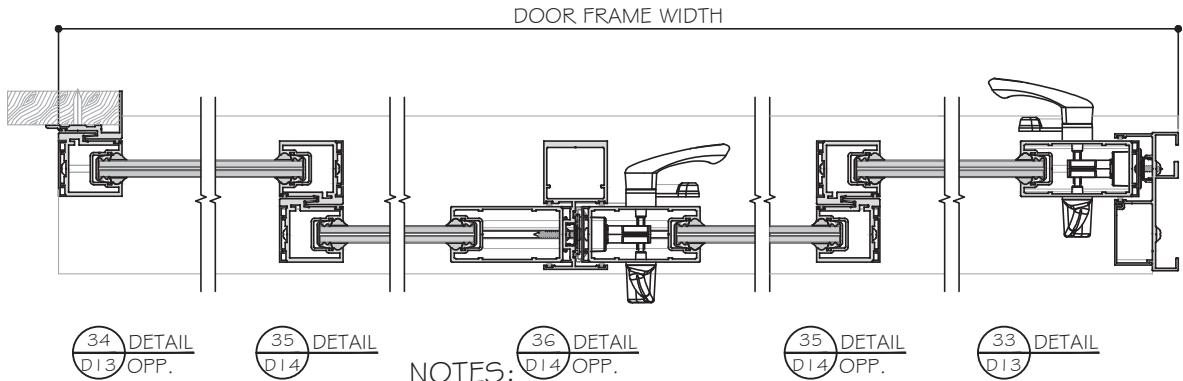
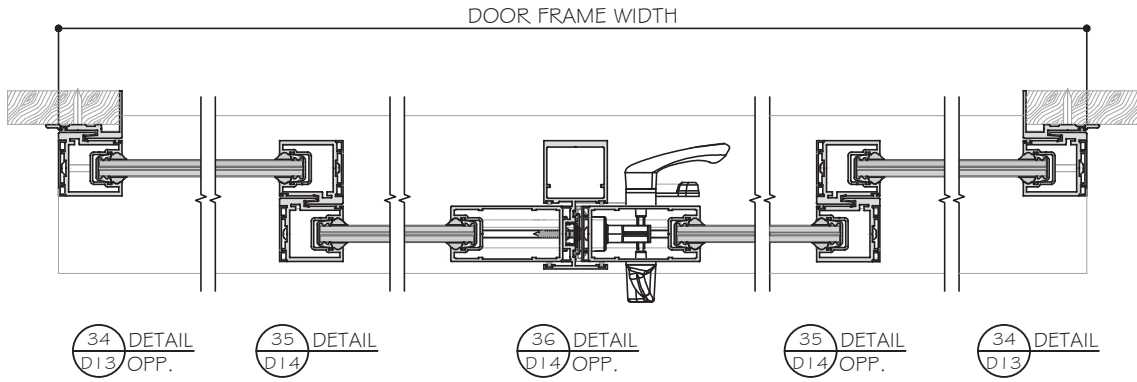
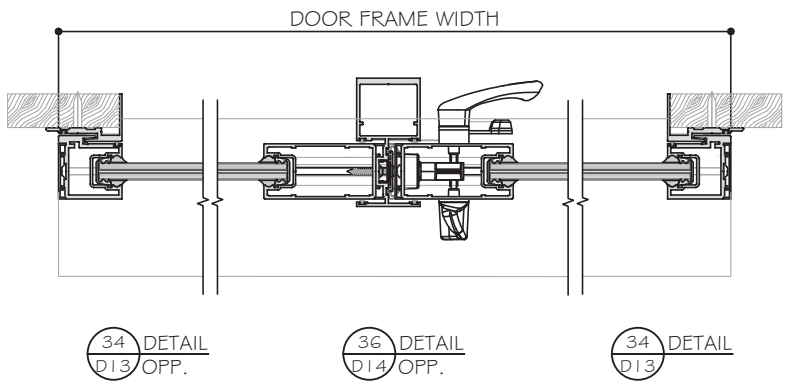
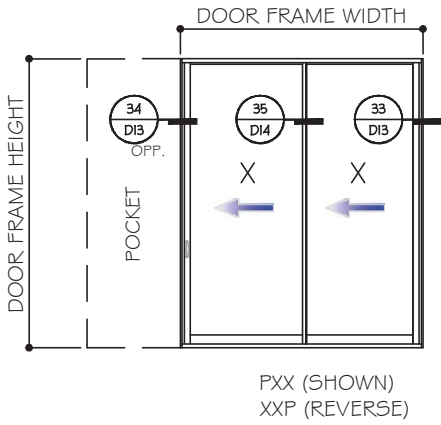
(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR Dp AND REINFORCING OPTIONS



TWO (2) TRACKS

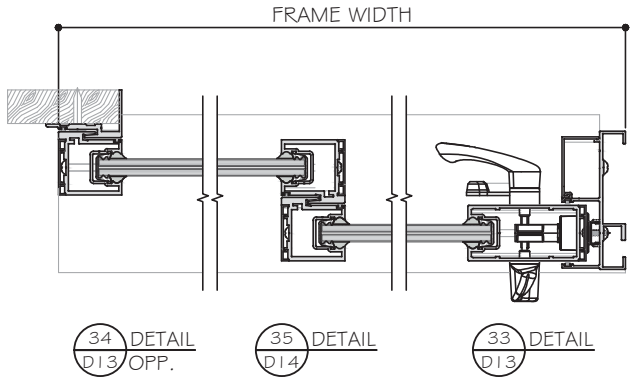
POCKETS ARE NOT PART OF THIS APPROVAL AND ARE TO BE REVIEWED BY AHJ.



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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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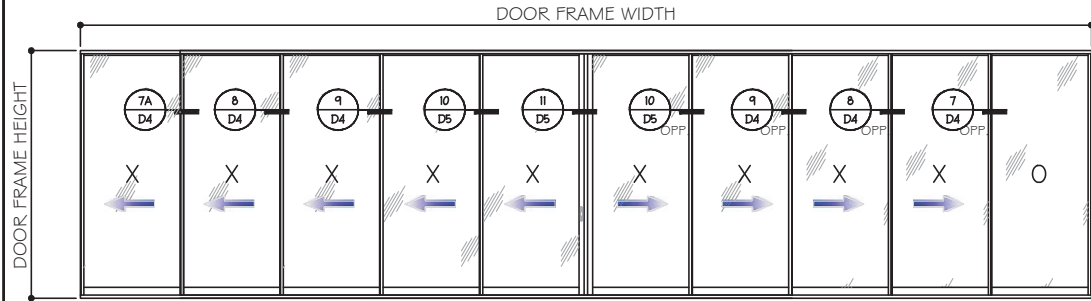
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Drawn Date 12.27.2023 Scale AS SHOWN			
DRAWING NO. AD23-79			
E11			
Sheet No. 12 OF 55			

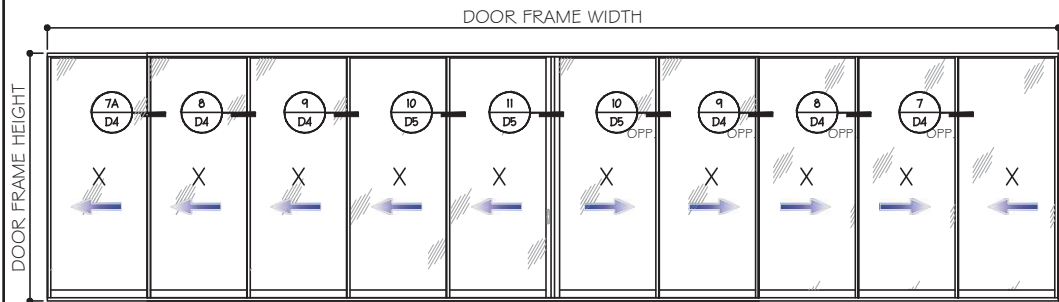
APPROVED CONFIGURATION POCKETED AND NO POCHET DOORS

(NON-REINFORCED SHOWN)

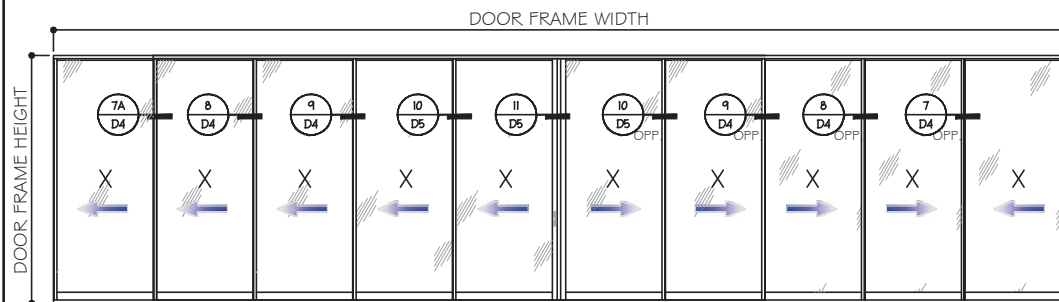
SEE SHEET K.I FOR Dp AND REINFORCING OPTIONS



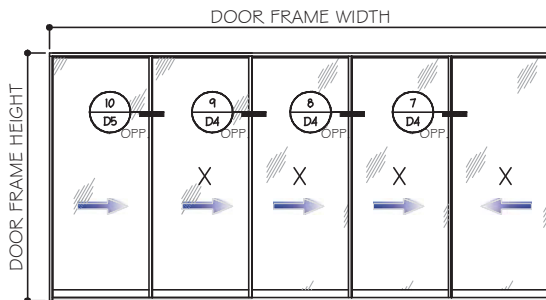
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OXXXXXXX



XXXXXXXO (SHOWN)
OXXXXXXX



XXXXXXXO (SHOWN)
OXXXXXXX



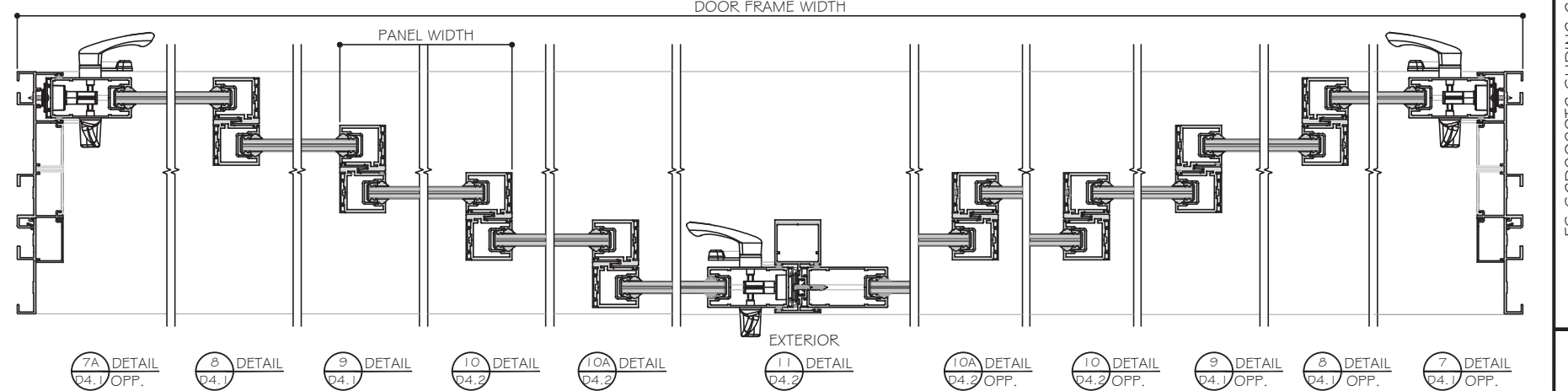
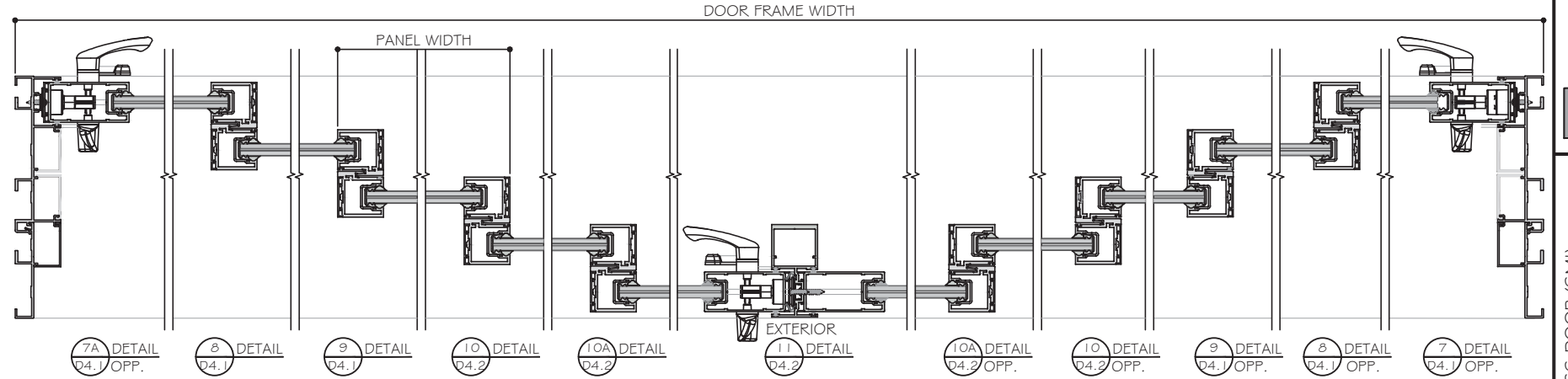
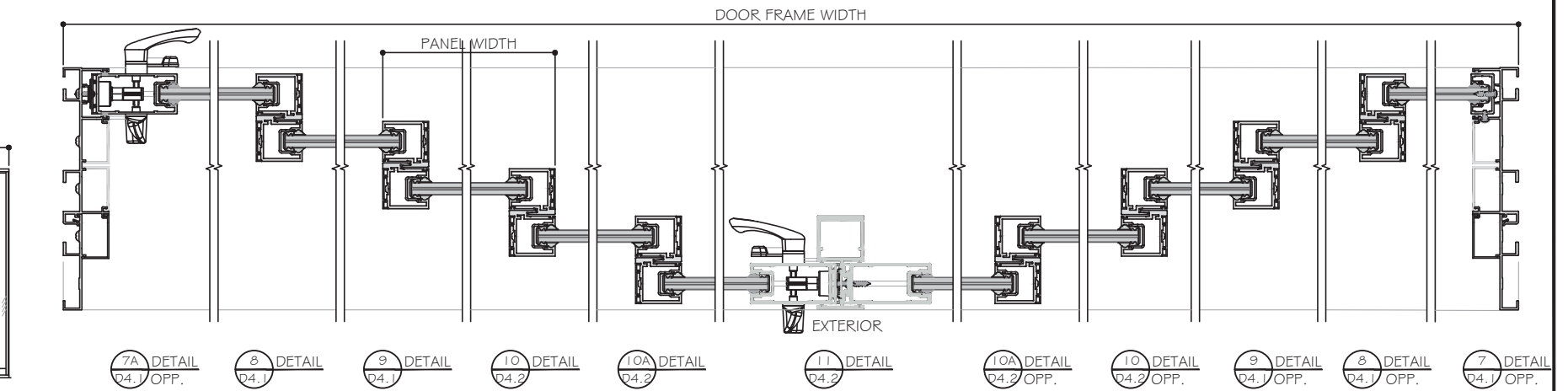
XXXXX (SHOWN)

FIVE (5) TRACKS

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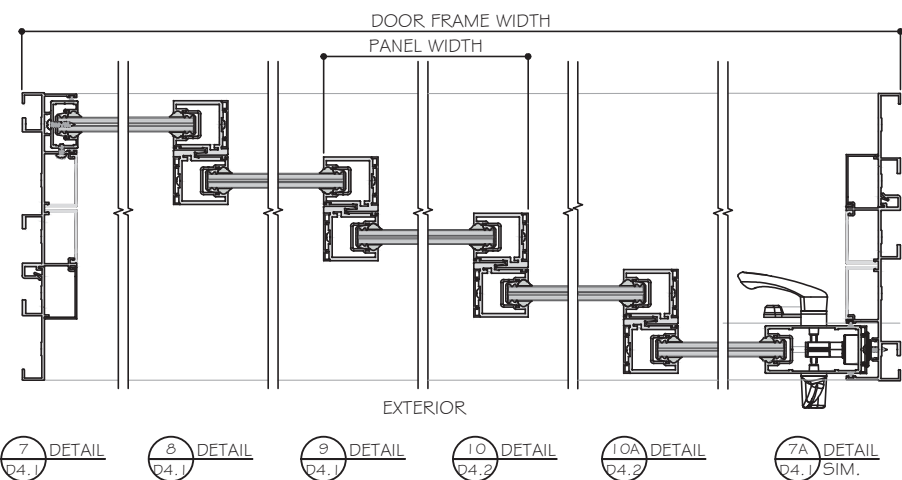
NOTES:

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LAMINATED GLASS OPTIONS SHOWN.
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DRAWING NO.

AD23-79

Sheet No.

13 OF 55

E12

DESIGN LOAD CAPACITY - PSF (GLASS)					
SGD PANEL SIZES		1 - 1/8" NOMINAL INSUL. LAMI. GLASS			
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	G4 +/- PSF	G4A +/- PSF	G6 +/- PSF	G8/G8A +/- PSF
36	102	150.0	150.0	102.0	90
42		150.0	150.0	102.0	90
48		133.0	133.0	102.0	90
54		121.0	121.0	102.0	90
60		100.0	-	-	90
66		100.0	-	-	90
72	108	100.0	-	-	90
36		150.0	150.0	102.0	90
42		142.0	142.0	102.0	90
48		124.0	124.0	102.0	90
54		111.0	111.0	102.0	90
60		100.0	-	-	90
66		100.0	-	-	90

DESIGN LOAD CAPACITY - PSF (GLASS)					
SGD PANEL SIZES		1 - 1/8" NOMINAL INSUL. LAMI. GLASS			
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	G4 +/- PSF	G4A +/- PSF	G6 +/- PSF	G8/G8A +/- PSF
36	114	150.0	150.0	102.0	90
42		136.0	136.0	102.0	90
48		117.0	117.0	102.0	90
54		100.0	-	-	90
60	120	99.5	-	-	90
36		150.0	150.0	102.0	90
42		133.0	133.0	102.0	90
48		112.0	112.0	102.0	90
54		100.0	-	-	90
60	126	93.7	-	-	90
36		150.0	150.0	102.0	90
42		130.0	130.0	102.0	90
48		100.0	-	-	90
54		98.2	-	-	90
60	132	150.0	150.0	102.0	90
36		128.0	128.0	102.0	90
42		100.0	-	-	90
48		94.6	-	-	90
54	138	150.0	150.0	102.0	90
36		126.0	126.0	102.0	90
42		100.0	-	-	90
48		90.0	-	-	90
60	144	150.0	150.0	102.0	90
42		100.0	-	-	90
48		99.9	-	-	90

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

WET GLAZED

GLASS TYPE 'G4'
1 1/8" NOMINAL OVERALL

DRY GLAZED

GLASS TYPE 'G4A'
1 1/8" NOMINAL OVERALL

WET GLAZED

GLASS TYPE 'G8'
1 1/8" NOMINAL OVERALL

DRY GLAZED

GLASS TYPE 'G8A'
1 1/8" NOMINAL OVERALL

WET GLAZED

GLASS TYPE 'GG'
1 1/8" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E1300-16
(3 SEC. GUSTS).

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

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677

January 2nd, 2024

Professional Engineer

State of Florida

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GLAZING CONSULTANTS
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AD23-79

Sheet No.
14A OF 55

Rev. No.

Date

Drawn By

Description

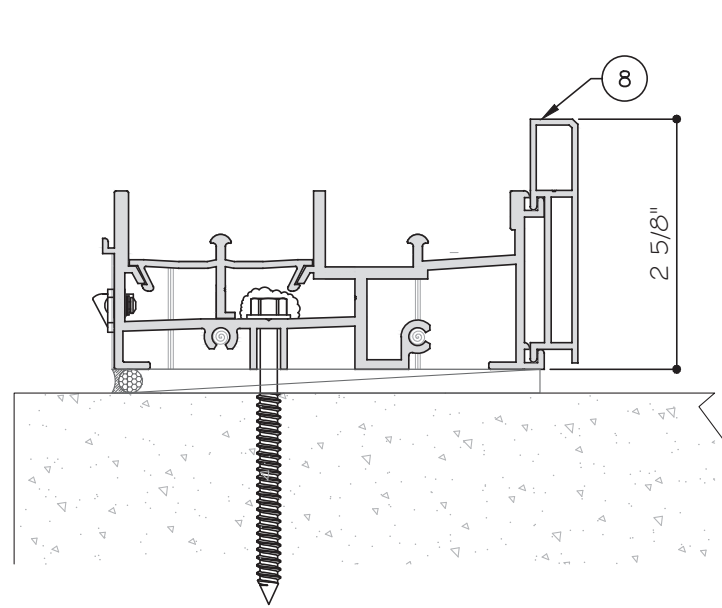
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12.21.2023

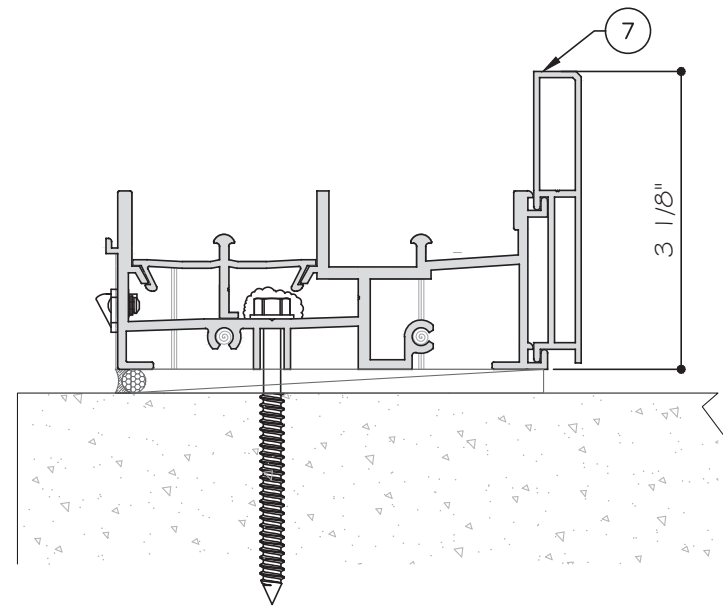
James

NEW APPLICATION

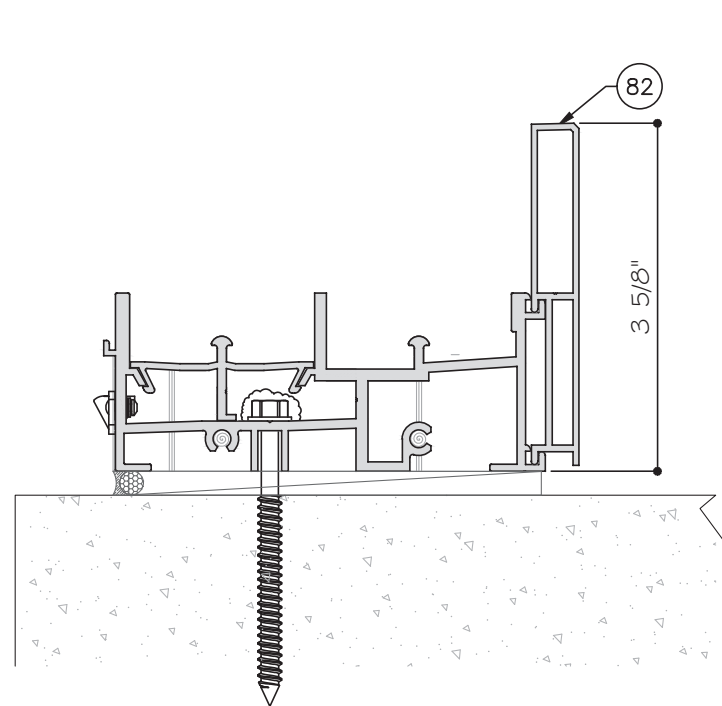
SILL RAISER OPTIONS (SHOWN ON 2 TRACK DOORS)
POSITIVE LOAD LIMITED AS FOLLOW DUE TO WATER INFILTRATION



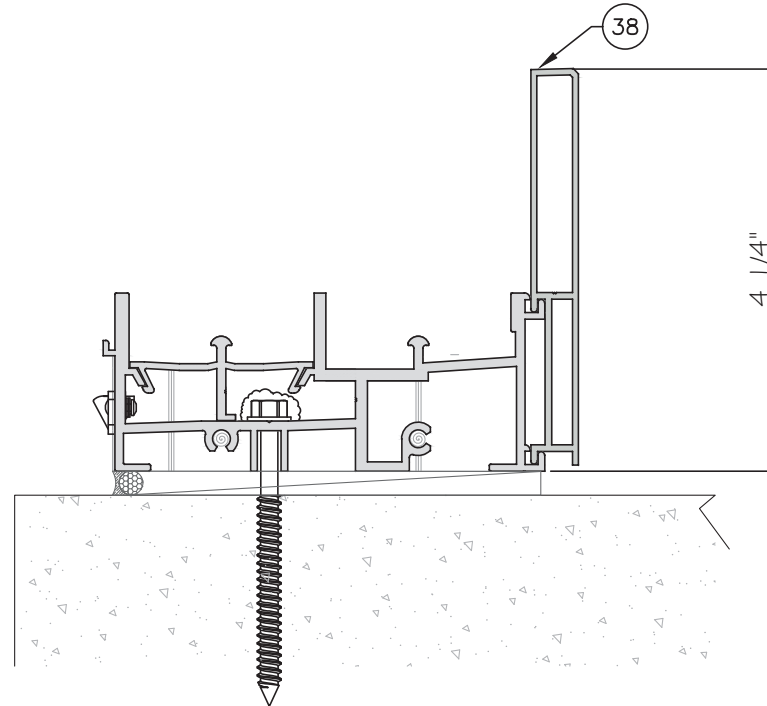
Pd MAX. = +53 PSF



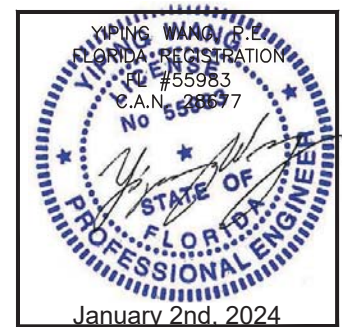
Pd MAX. = +67 PSF



Pd MAX. = +80 PSF



Pd MAX. = +90 PSF



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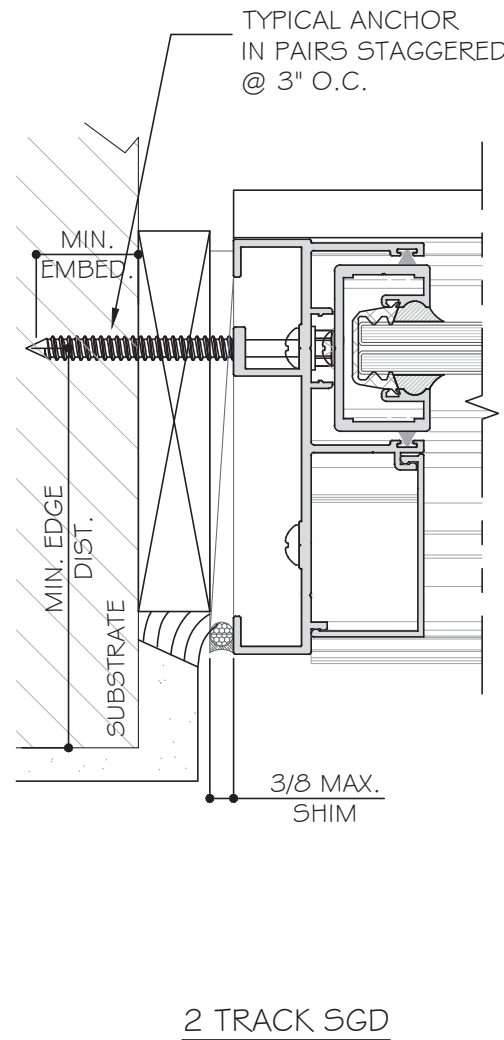
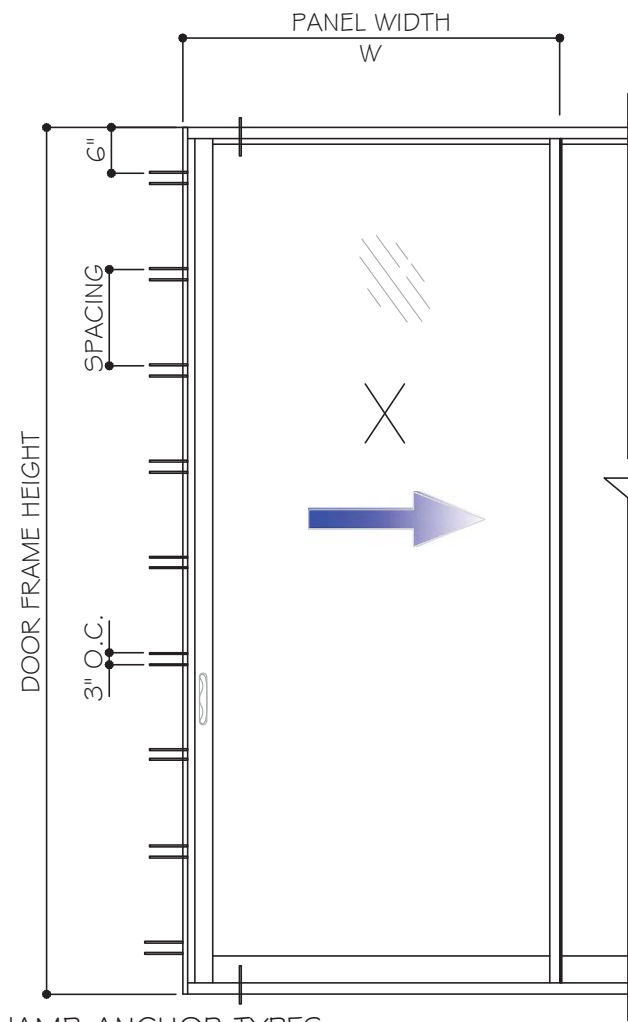
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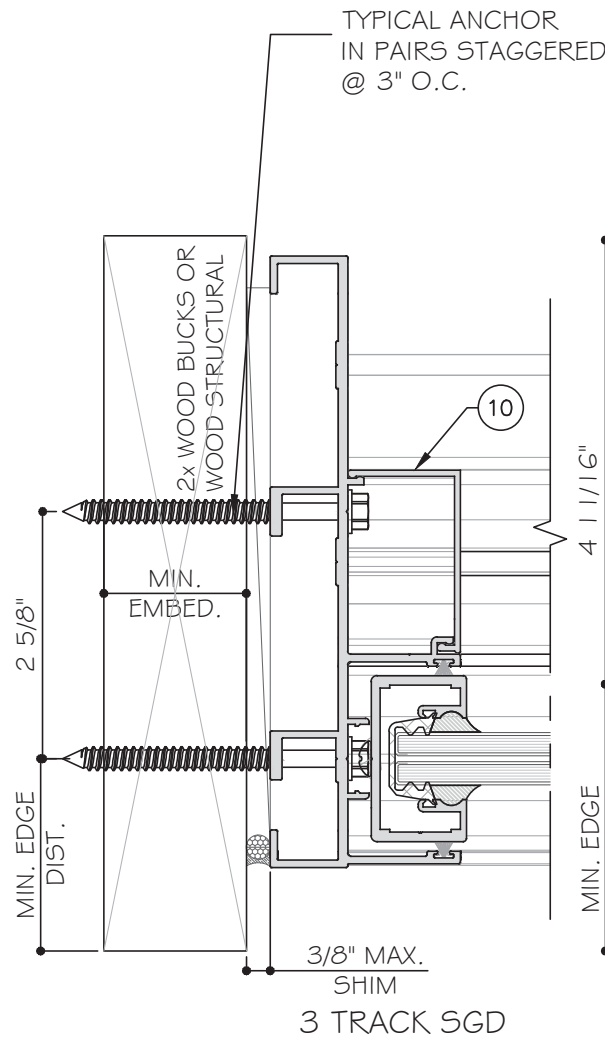
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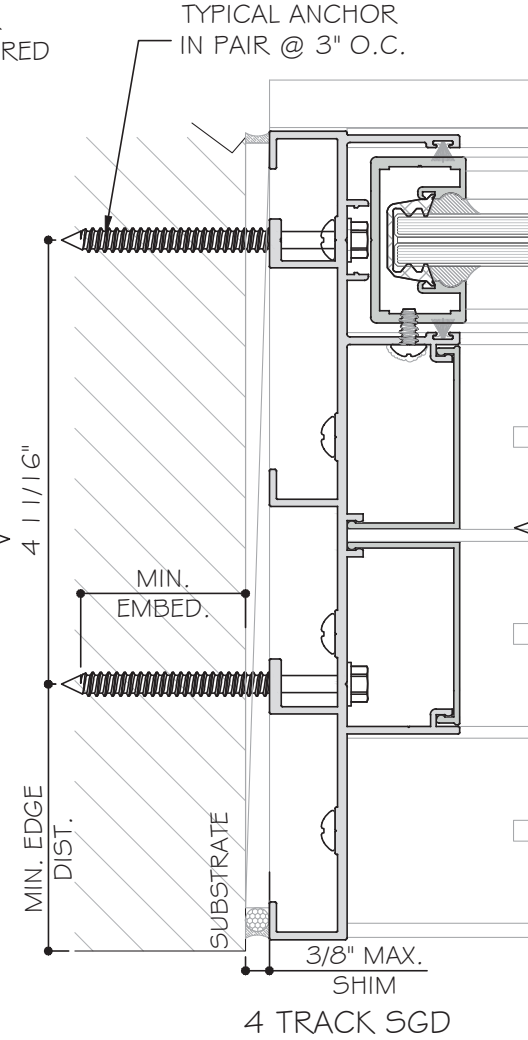
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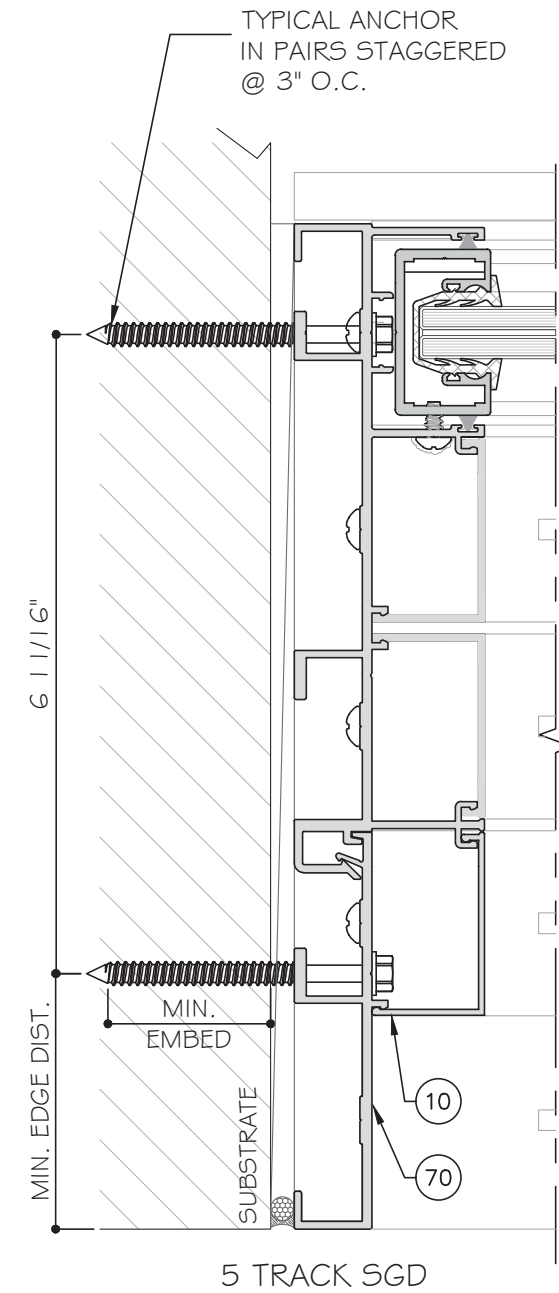
2 TRACK SGD



3 TRACK SGD



4 TRACK SGD



5 TRACK SGD

JAMB ANCHOR TYPES:

TYPE "A": 1/4" DIA. KWIKCON+ BY HILTI ($F_u = 138$ KSI, $F_y = 137$ KSI)

- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD STRUCTURE
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO CONCRETE OR MASONRY
- 1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE OR MASONRY

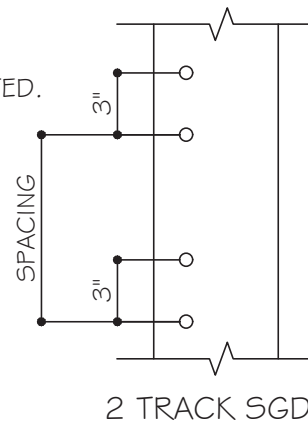
TYPE "B": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)

- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD STRUCTURE
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO CONCRETE OR MASONRY
- 1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE OR MASONRY

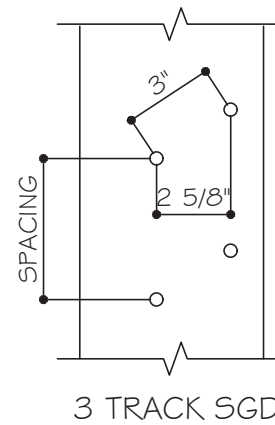
TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u = 120$ KSI, $F_y = 92$ KSI)
INTO METAL STRUCTURE

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

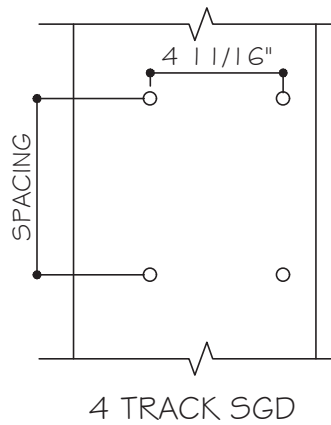
CONCRETE: 3000 p_{si} MIN.
MASONRY: C90 BLOCK, $f'_c = 2000$ p_{si} MIN.
WOOD SG = 0.55 MIN.



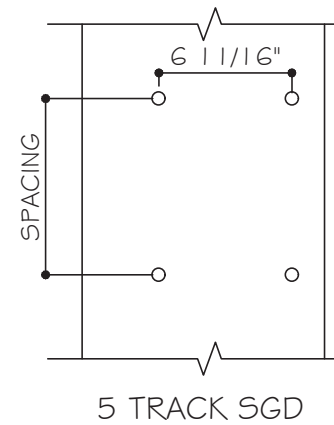
2 TRACK SGD



3 TRACK SGD



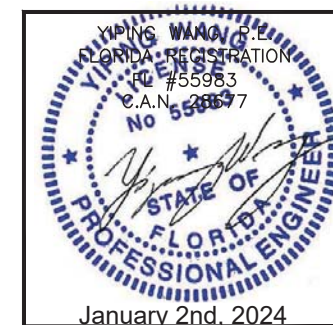
4 TRACK SGD



5 TRACK SGD

JAMB ANCHOR CHART				
ANCHOR TYPE		SUBSTRATE	MAX. SHIM	ANCHOR SPACING
A	1/4" KWIKCON	CONCRETE	1/4"	18" O.C.
A	1/4" KWIKCON	WOOD/ CONCRETE/ BLOCK	3/8"	12" O.C.
B	1/4" ULTRACON+	CONCRETE	1/4"	18" O.C.
B	1/4" ULTRACON+	WOOD/ CONCRETE/ BLOCK	3/8"	12" O.C.
C	1/4" TEKS	1/8" THK. METAL (6063-T5)	1/4"	18" O.C.
C	1/4" TEKS		3/8"	12" O.C.

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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www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020TG SLIDING GLASS DOOR (SGD)

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305) 342-0890 FAX (786) 513-3965

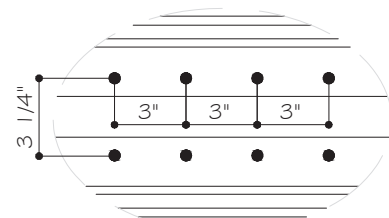
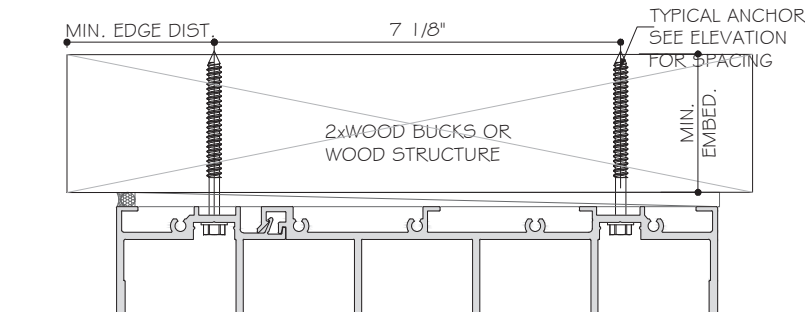
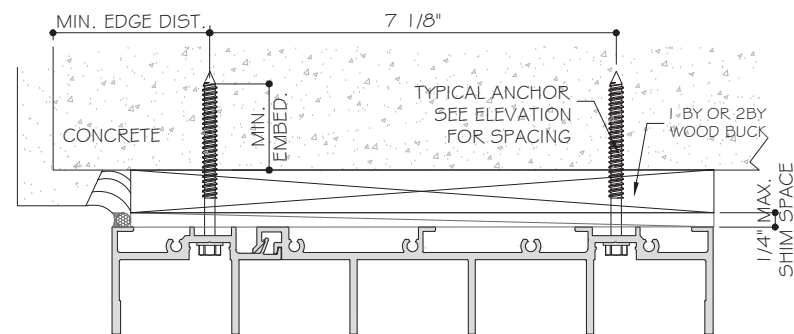
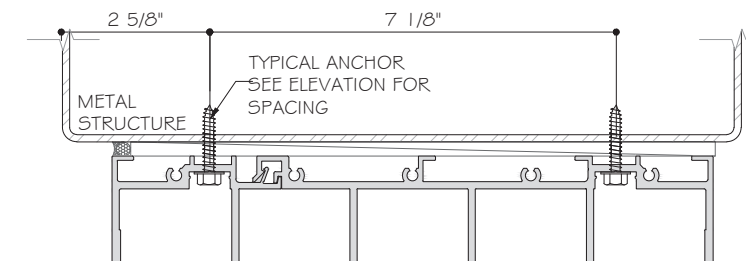
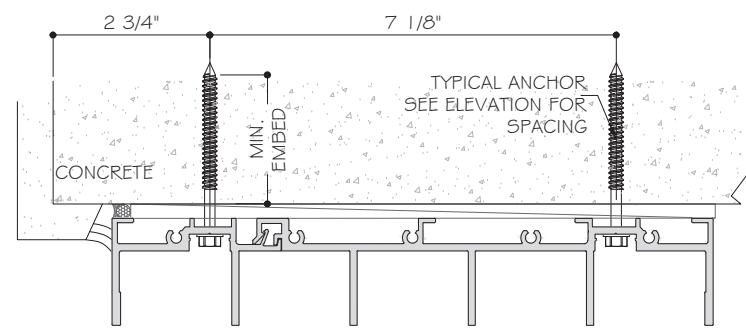
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Drawn Date: 12.27.2023 Scale: AS SHOWN

DRAWING NO. AD23-79

J3

Sheet No. 19 OF 55



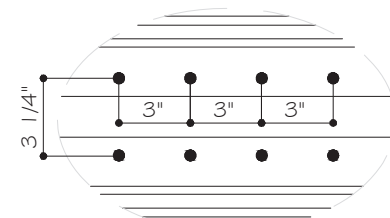
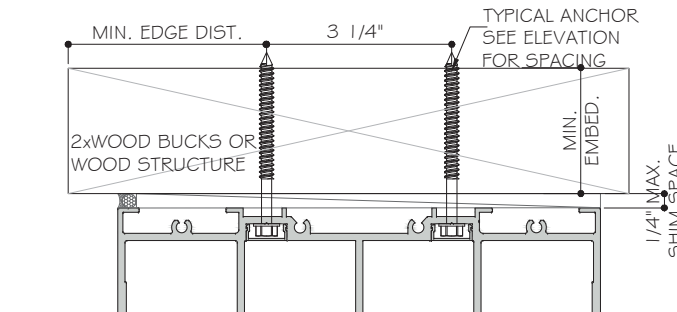
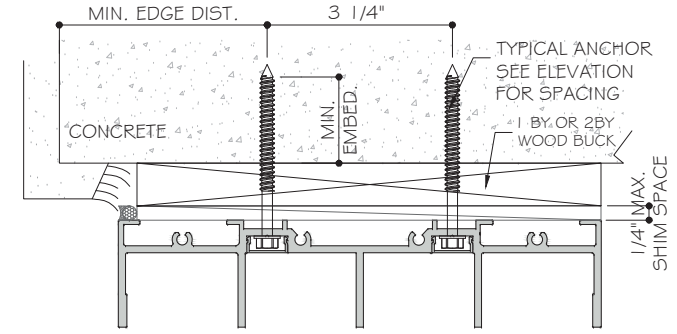
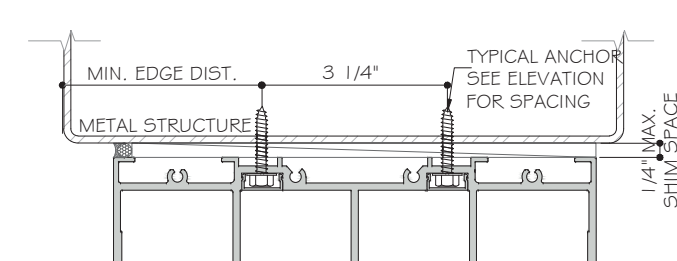
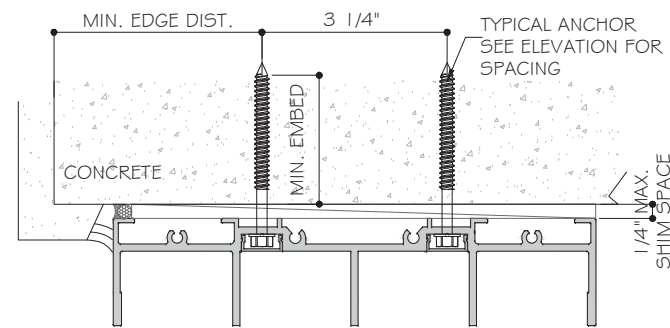
HEAD ANCHOR TYPES: 5 TRACK SGD

ANCHOR TYPE A

1/4" DIA. HILTI KWIKCON ($F_u = 138 \text{ KSI}$, $F_y = 137 \text{ KSI}$)
 1 1/2" MIN. EMBED INTO SG=0.55 MIN. WOOD.
 OR THRU 1X OR 2X WOOD BUCKS INTO CONCRETE OR MASONRY
 1 3/4" EMBED INTO CONCRETE $f'_c = 3000 \text{ psi}$ MIN.

ANCHOR TYPE B

1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
 1 1/2" MIN. EMBED INTO SG=0.55 MIN. WOOD.
 OR THRU 1X OR 2X WOOD BUCKS INTO CONCRETE OR MASONRY
 1 3/4" MIN. EMBED INTO CONCRETE $f'_c = 3000 \text{ psi}$ MIN.



4 TRACK SGD

ANCHOR TYPE C

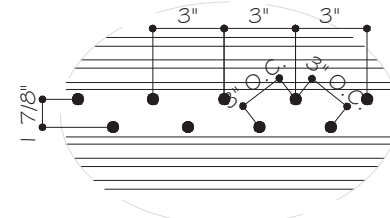
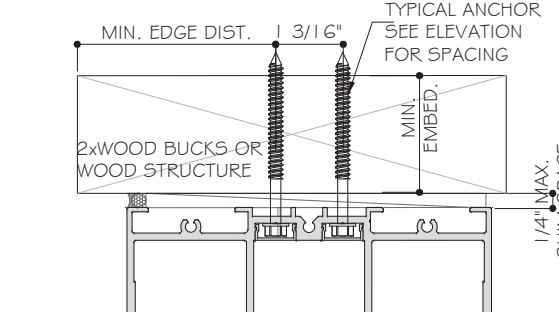
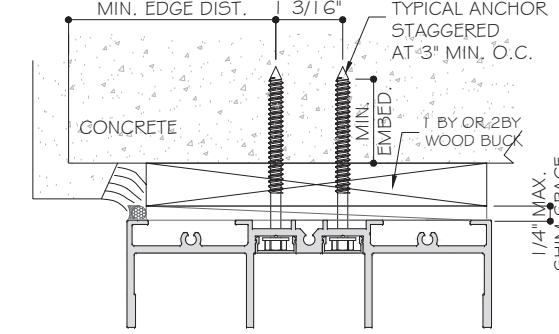
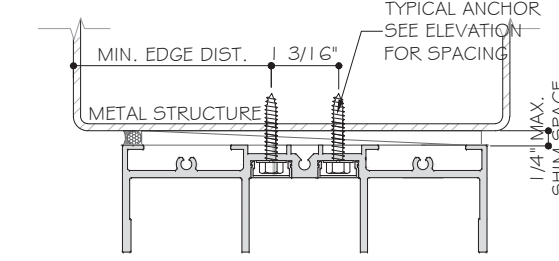
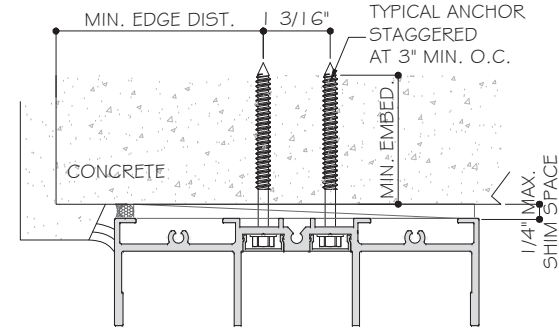
1/4" DIA. TEKS SCREW ($F_u = 120 \text{ ksi}$, $F_y = 90 \text{ ksi}$).
 INTO 1/8 THK. MIN. METAL STRUCTURE 6063-T5 MIN. OR A36.

ANCHOR TYPE D

5/16" DIA. DEWALT ULTRACON ($F_u = 177 \text{ ksi}$, $F_y = 155 \text{ ksi}$)
 1 1/2" MIN. EMBED INTO SG=0.55 WOOD.
 OR THRU 1X OR 2X WOOD BUCKS INTO CONCRETE $f'_c = 3000 \text{ psi}$ MIN.

ANCHOR TYPE D

5/16" DIA. DEWALT ULTRACON ($F_u = 177 \text{ ksi}$, $F_y = 155 \text{ ksi}$)
 1 3/4" MIN. EMBED INTO CONCRETE $f'_c = 3500 \text{ psi}$ MIN.



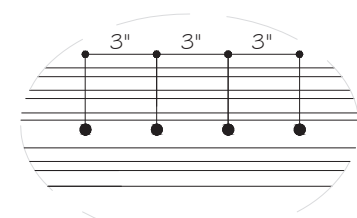
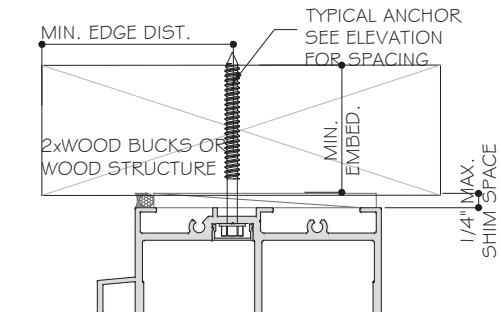
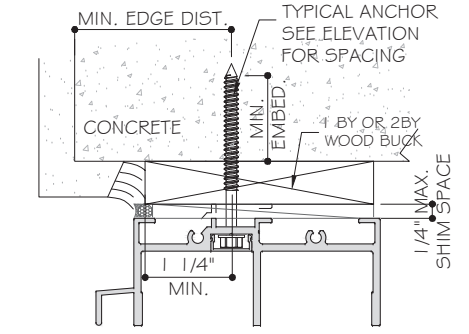
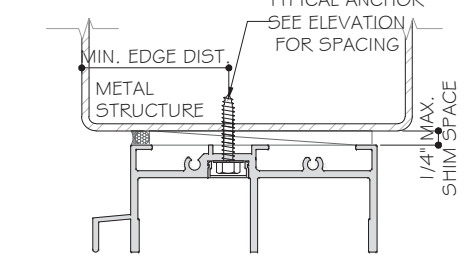
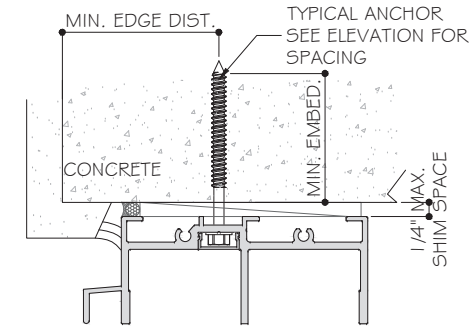
3 TRACK SGD

ANCHOR TYPE E

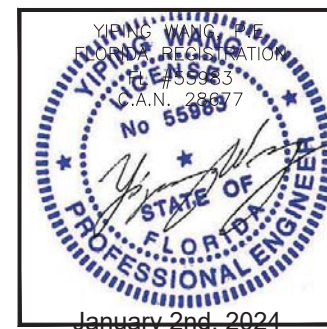
5/16" DIA. TEKS SCREW ($F_u = 120 \text{ ksi}$, $F_y = 90 \text{ ksi}$).
 INTO 1/8 THK. MIN. METAL STRUCTURE 6063-T5
 MIN. OR A36. (3) THREAD MIN.
 PENETRATION BEYOND METAL
 SUBSTRATE STEEL IN CONTACT WITH
 ALUM. TO BE PAINTED.

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.



2 TRACK SGD



E5-SGD2020TG SLIDING GLASS DOOR (SGD)

TECNOGLASS, LLC
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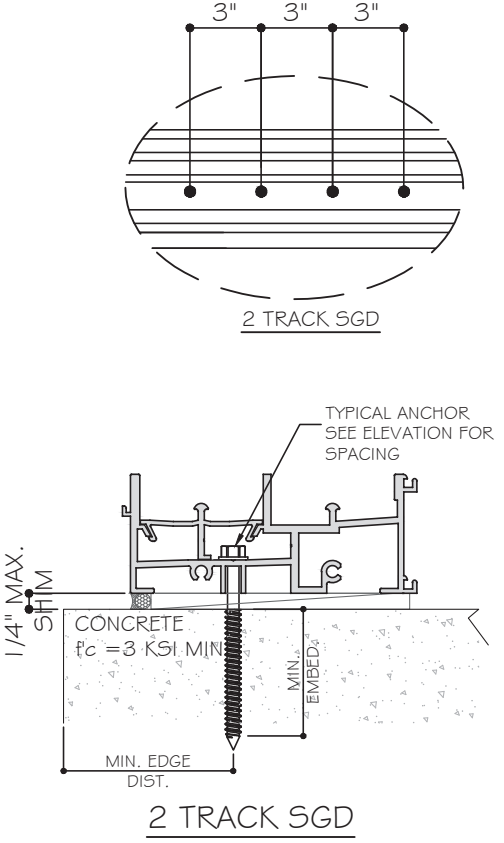
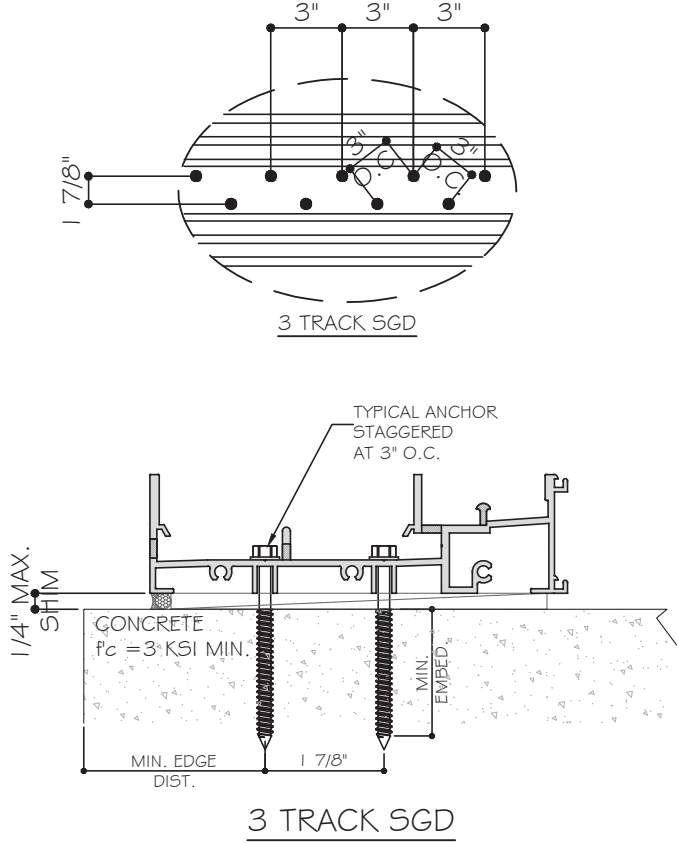
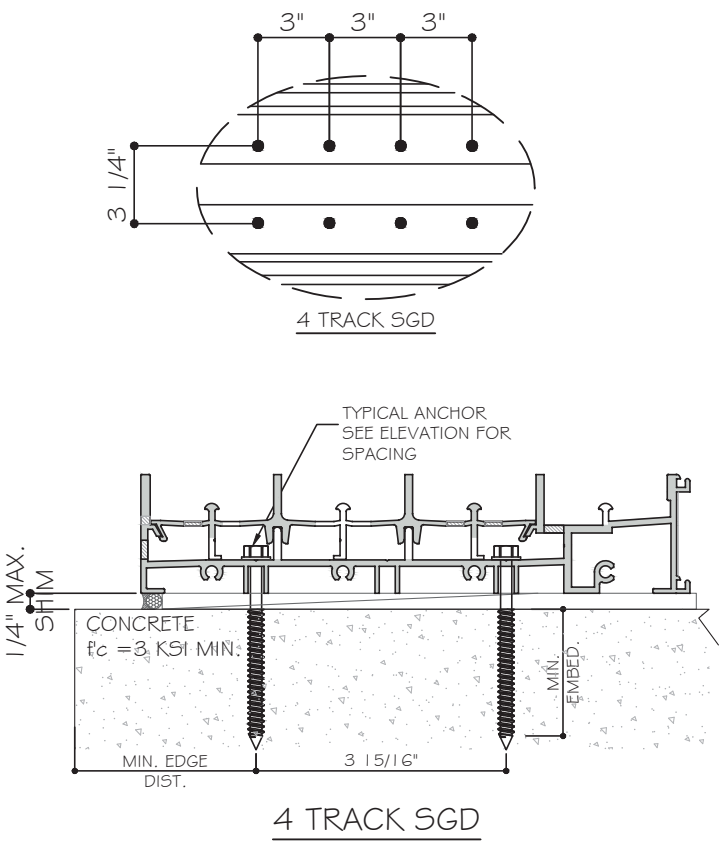
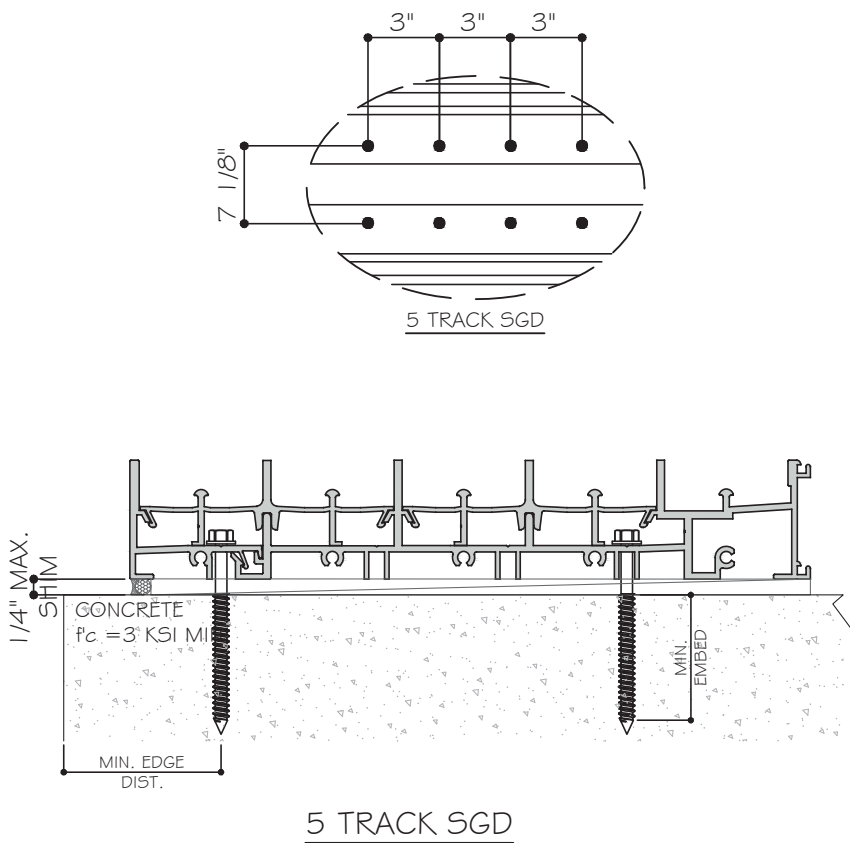
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 www.MCYEngineering.com mcy@mcyengineering.com

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DRAWING NO. AD23-79			
A3			
Sheet No. 23 OF 55			

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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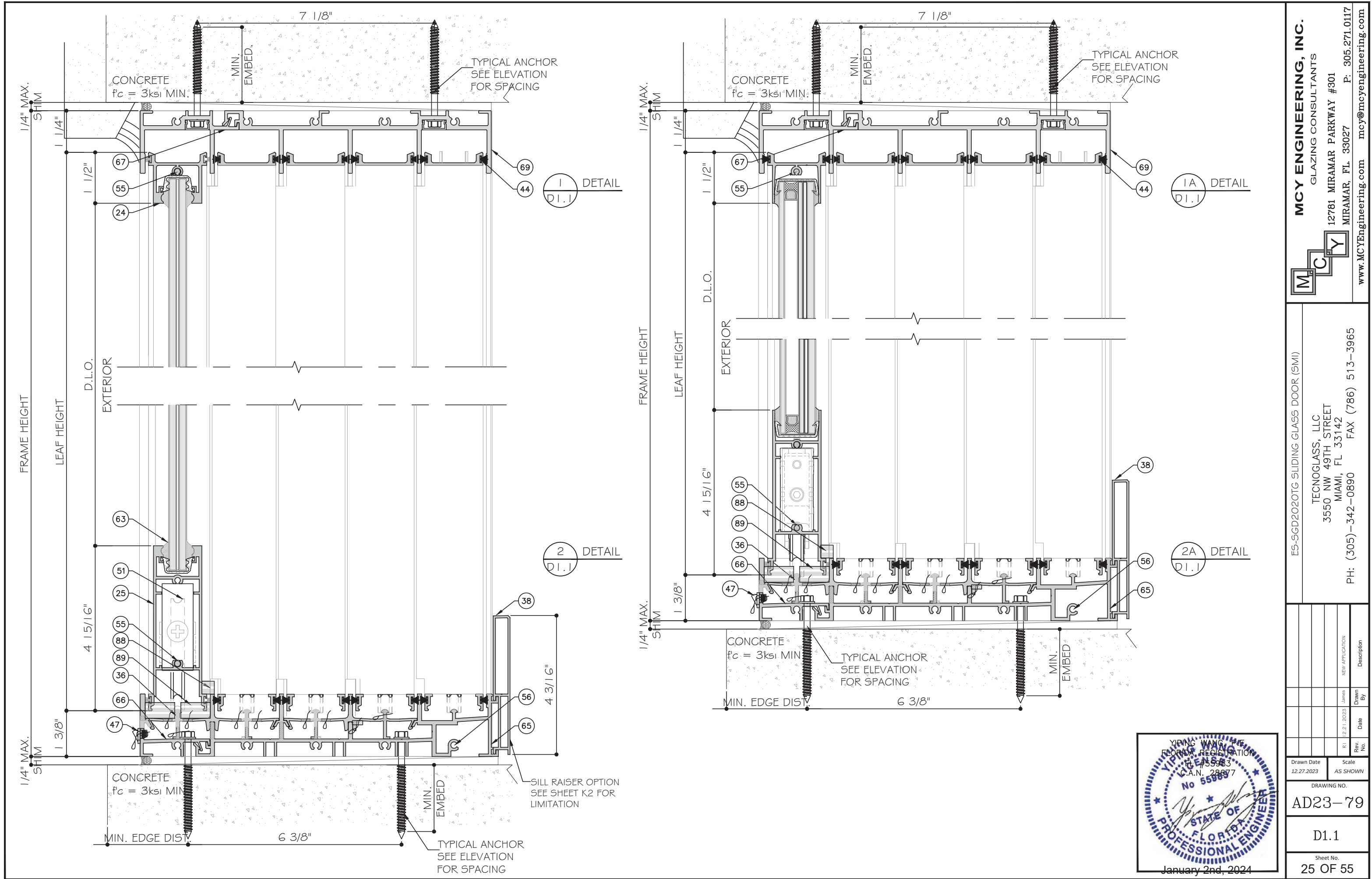
3550 NW 49TH STREET

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Drawn Date: 12.27.2023				
Scale: AS SHOWN				
DRAWING NO. AD23-79				
A4				
Sheet No. 24 OF 55				



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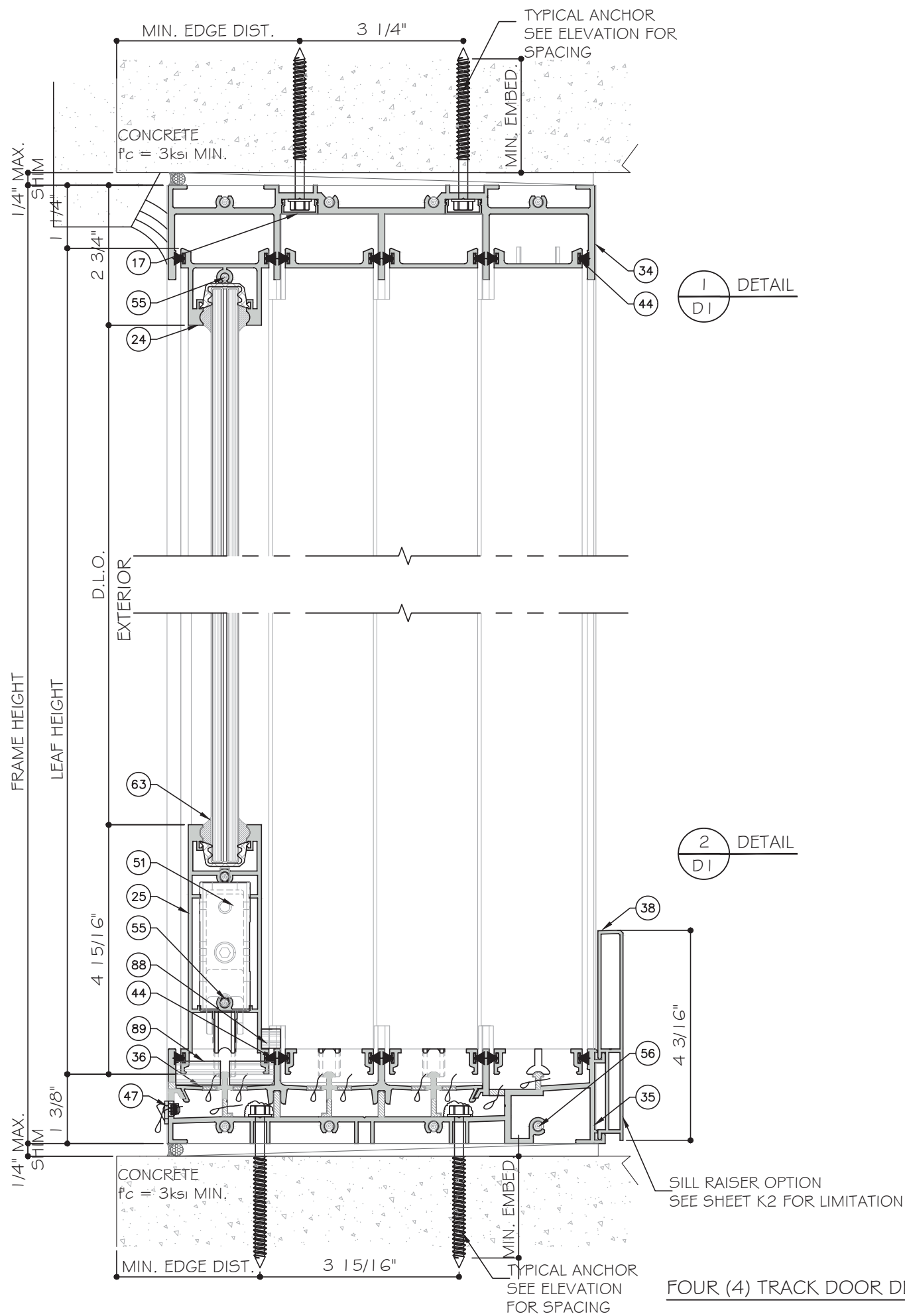
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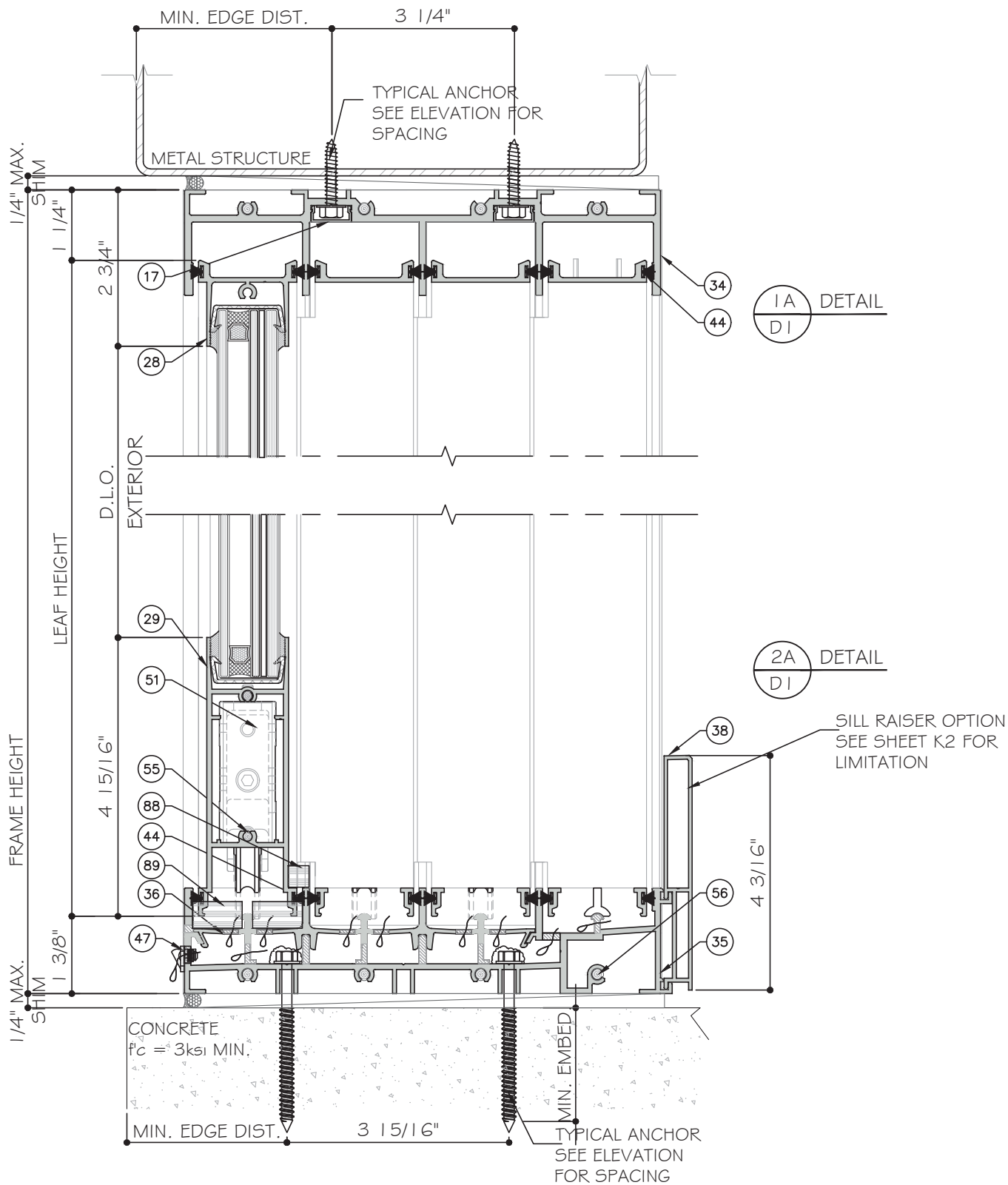
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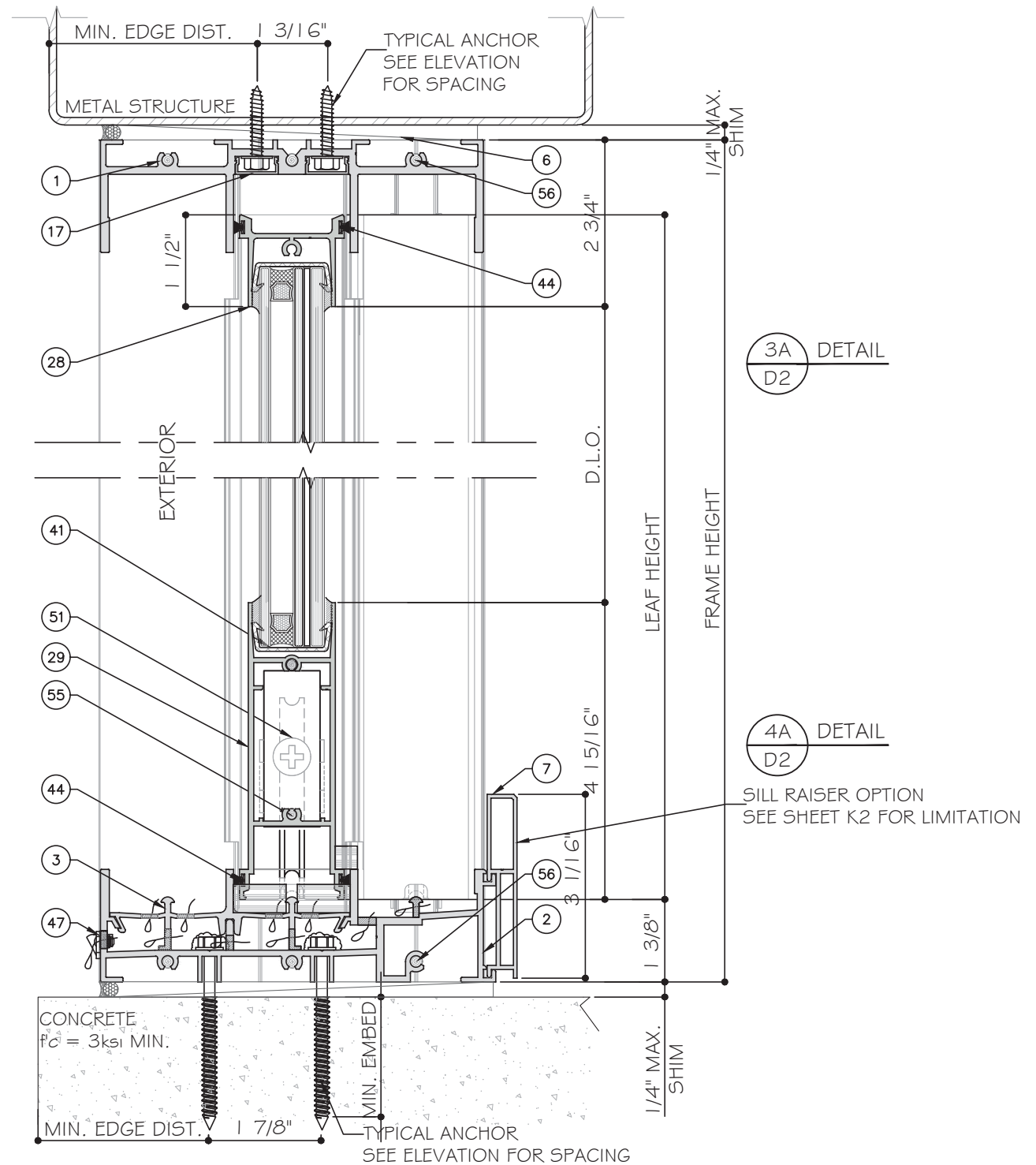
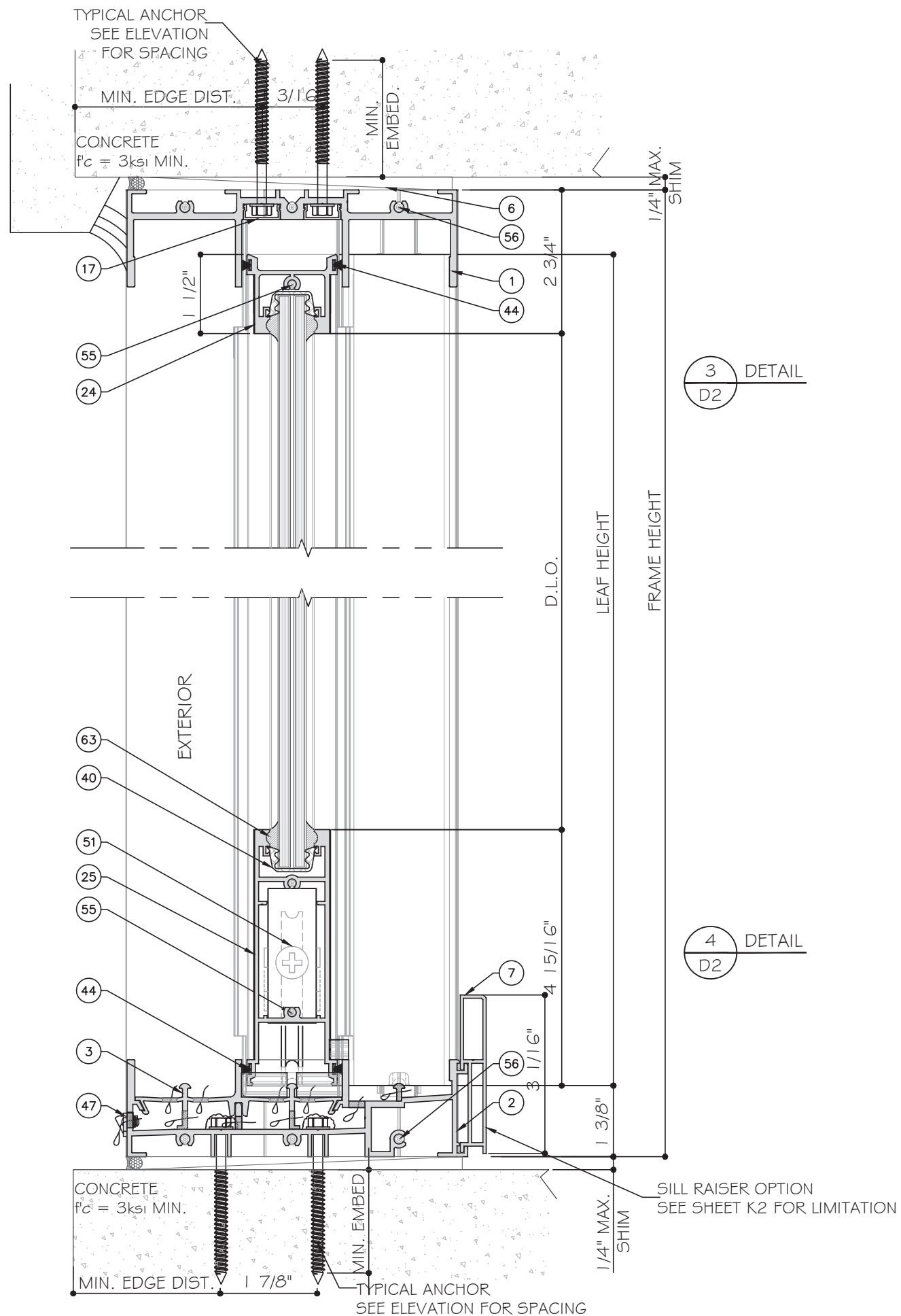
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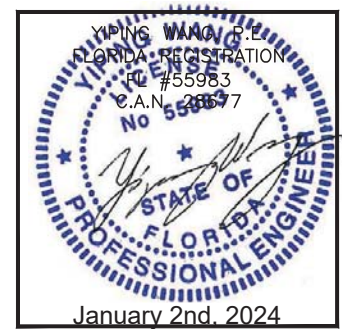
FOUR (4) TRACK DOOR DETAILS



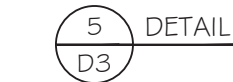
MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com			
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DRAWING NO.			
AD23-79			
D1			
Sheet No.			
26 OF 55			



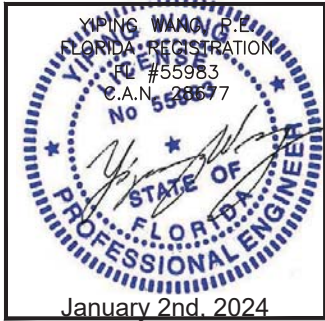
THREE (3) TRACK DOOR DETAILS



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DRAWING NO. AD23-79	
Sheet No. 27 OF 55	



TWO (2) TRACK DOOR DETAILS

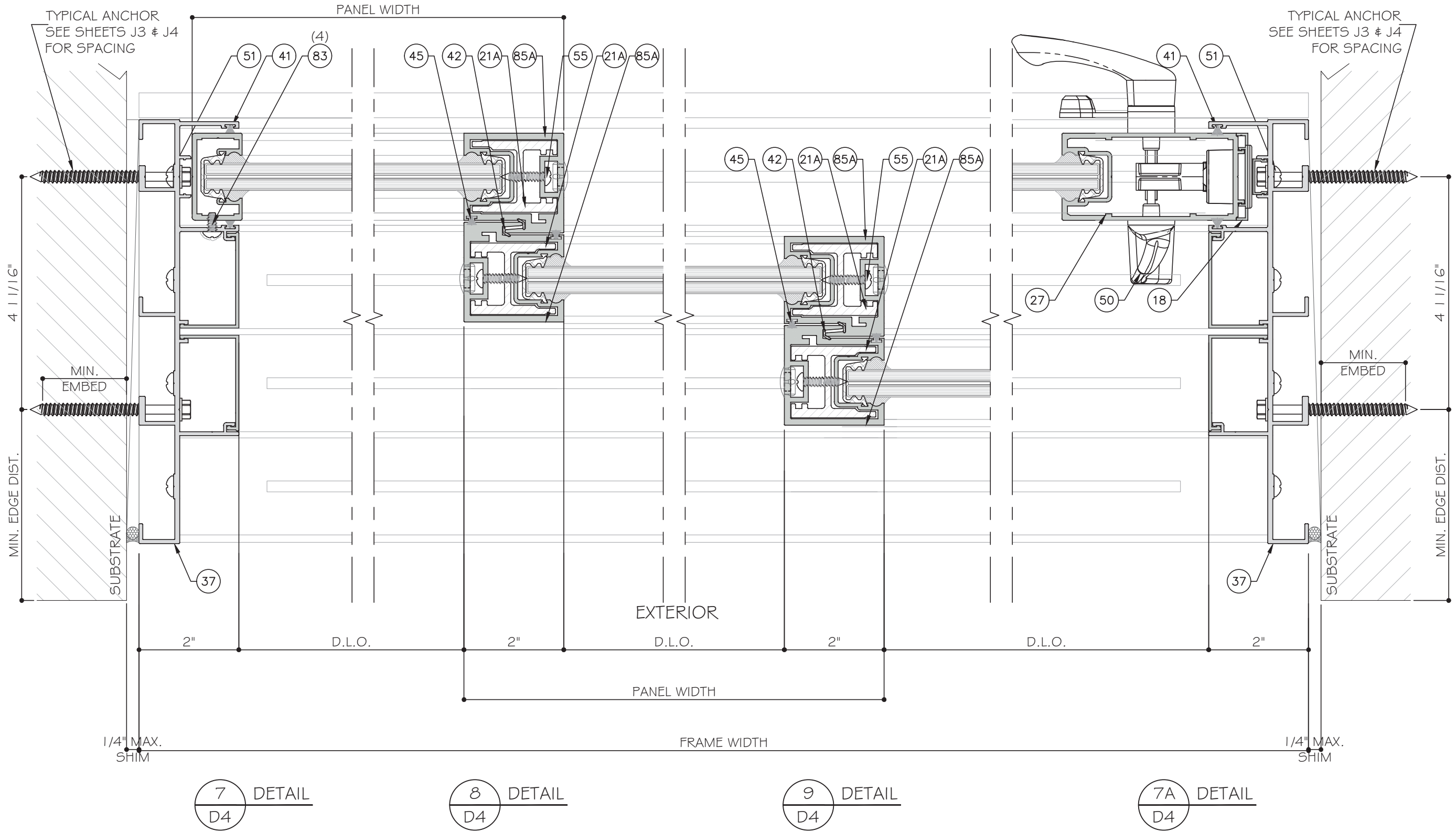


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[illegible]



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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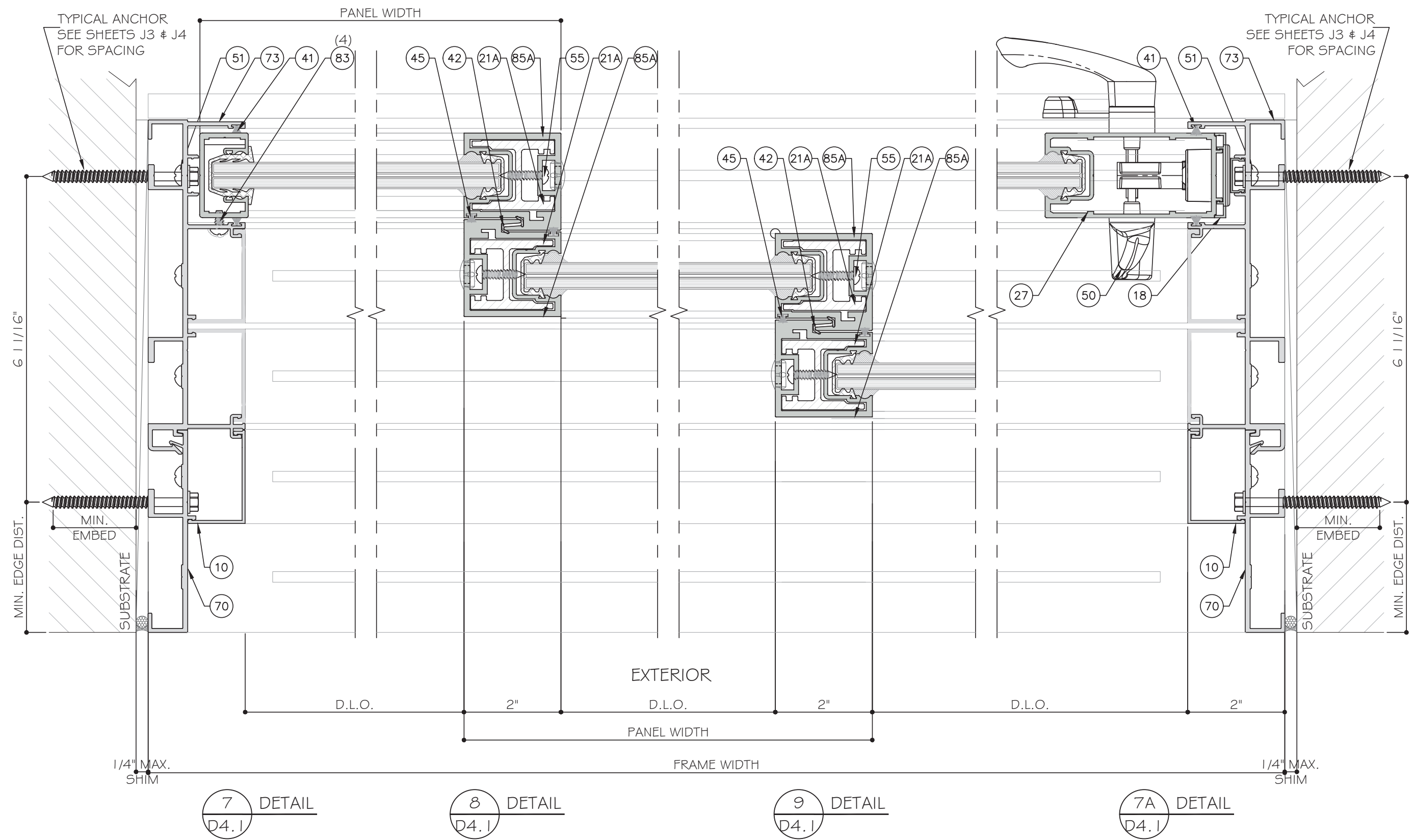
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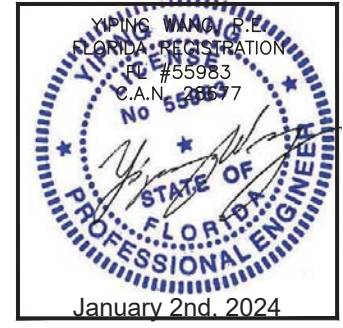
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Sheet No.

29 OF 55



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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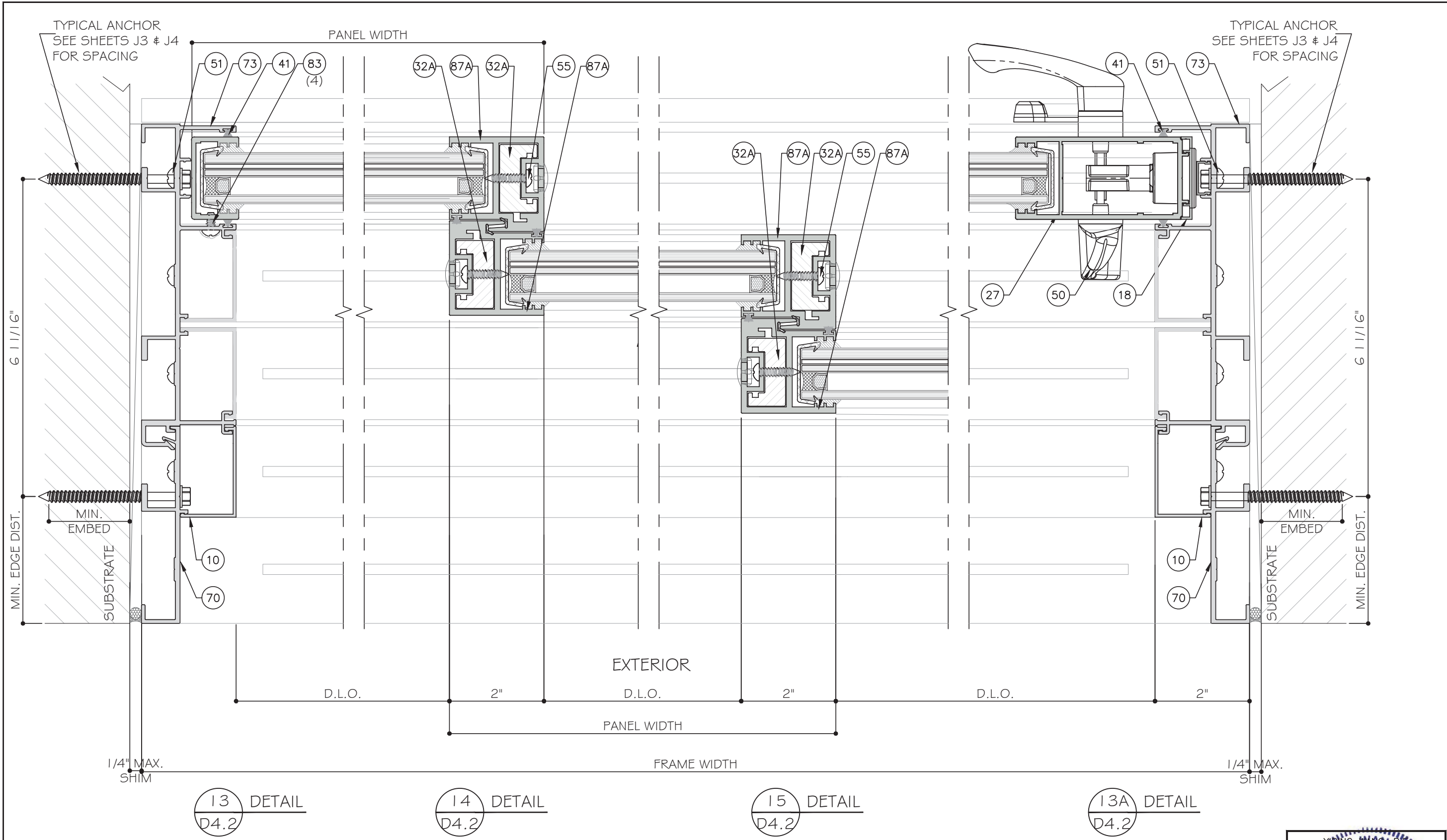
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D4.1

Sheet No.

30 OF 55



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



FIVE (5) TRACK DOOR DETAILS

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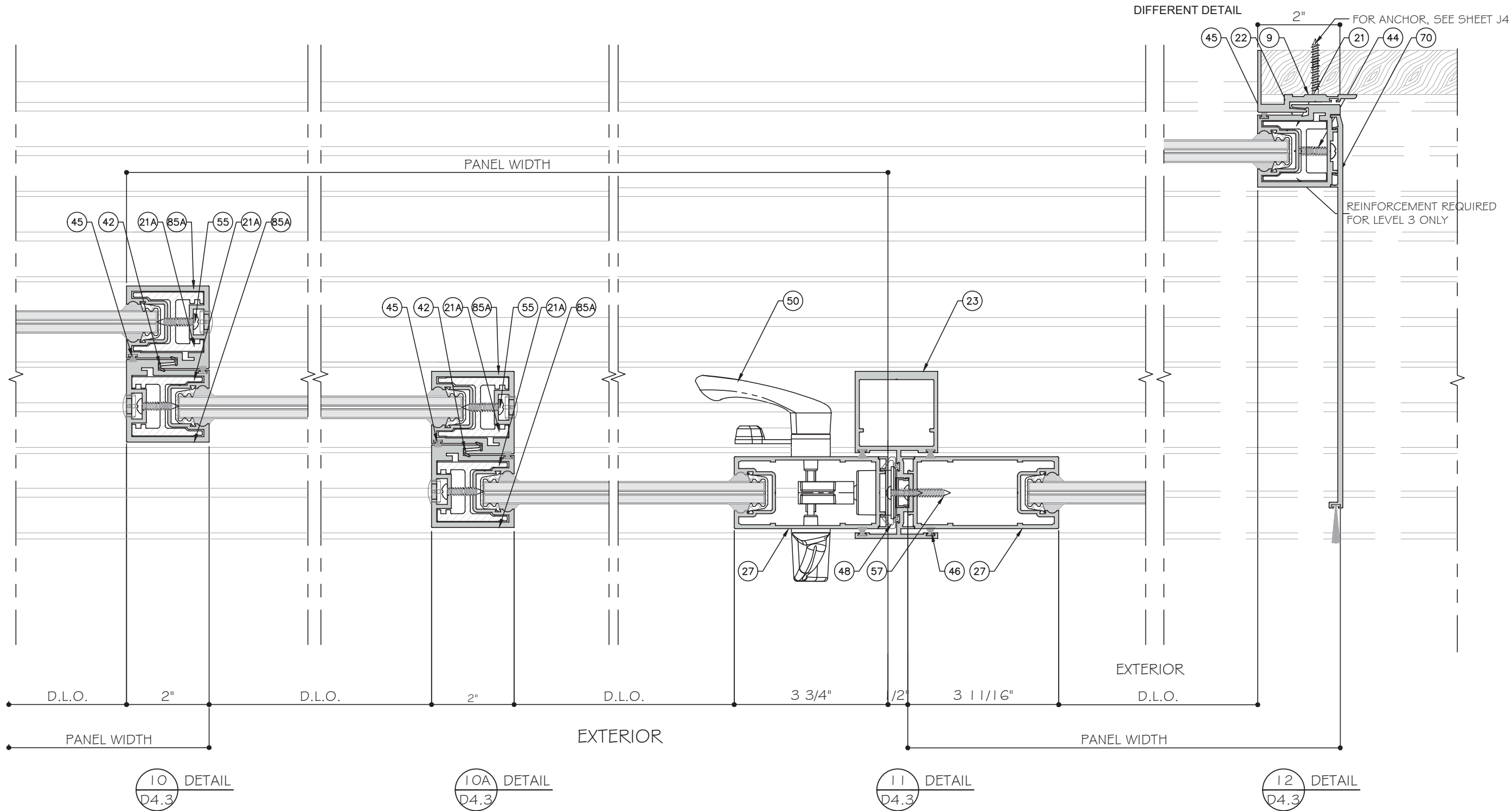
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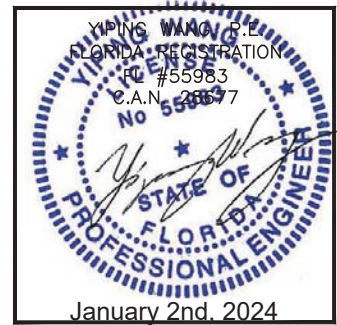
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31 OF 55



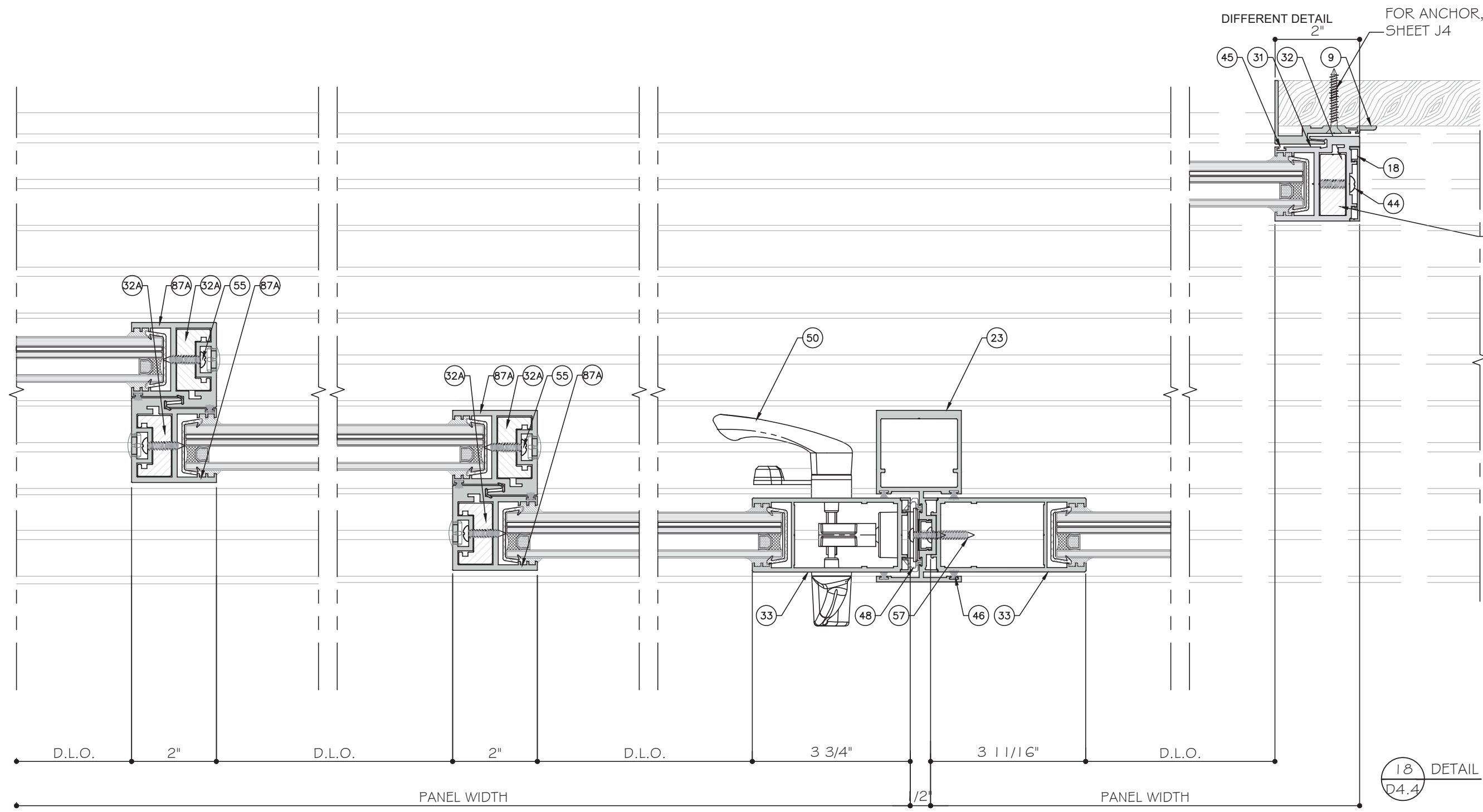
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FIVE (5) TRACK DOOR DETAILS



Rev. No.	Date	Drawn By	Description
1	12.21.2023	James	NEW APPLICATION

Drawn Date 12.27.2023	Scale AS SHOWN
DRAWING NO. AD23-79	Sheet No. 32 OF 55



16 DETAIL
D4.4

16A DETAIL
D4.4

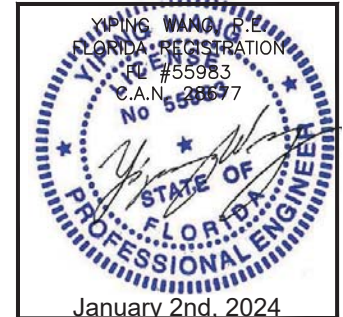
17 DETAIL
D4.4

18 DETAIL
D4.4

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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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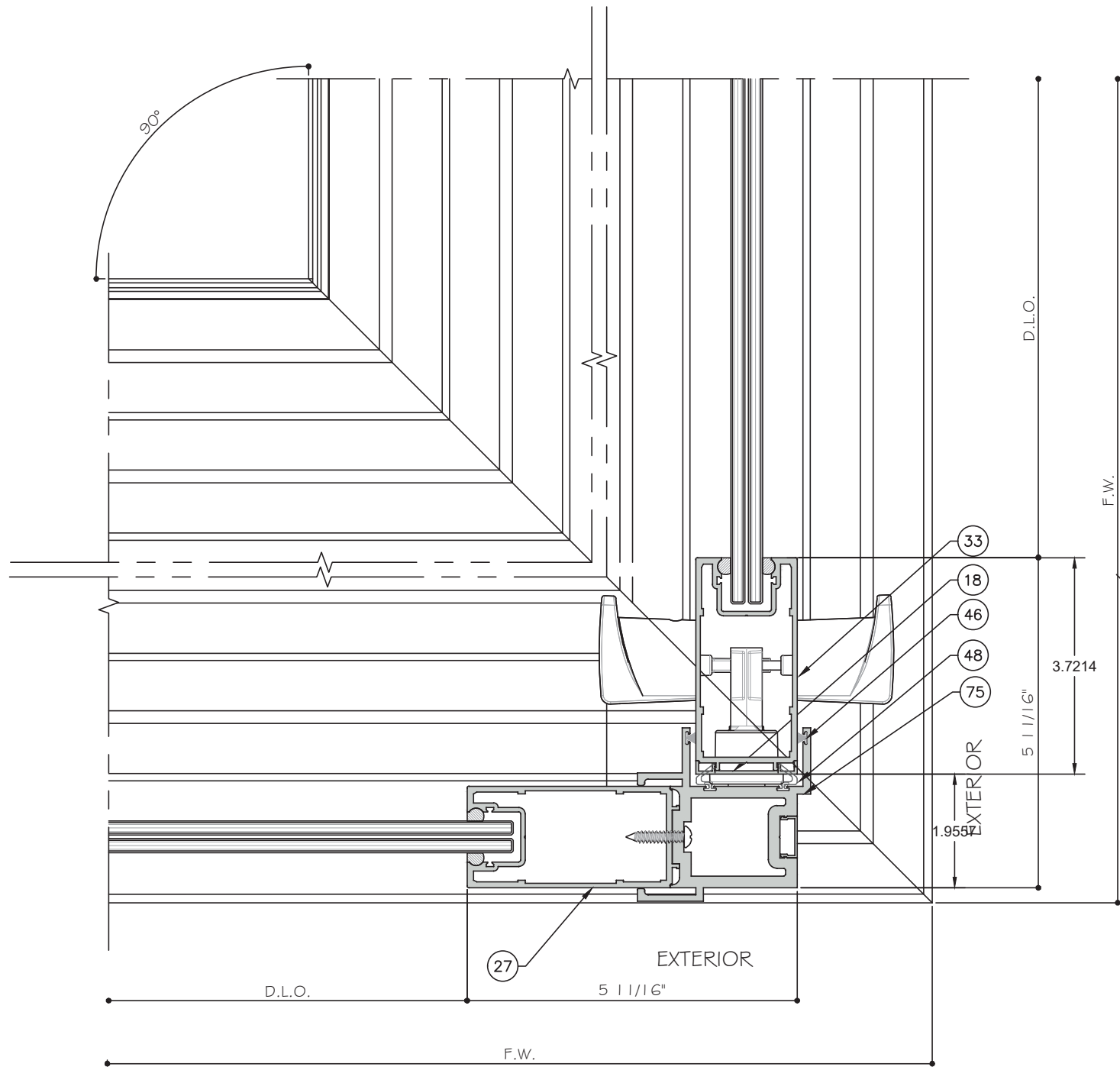
TECNOGLASS, LLC
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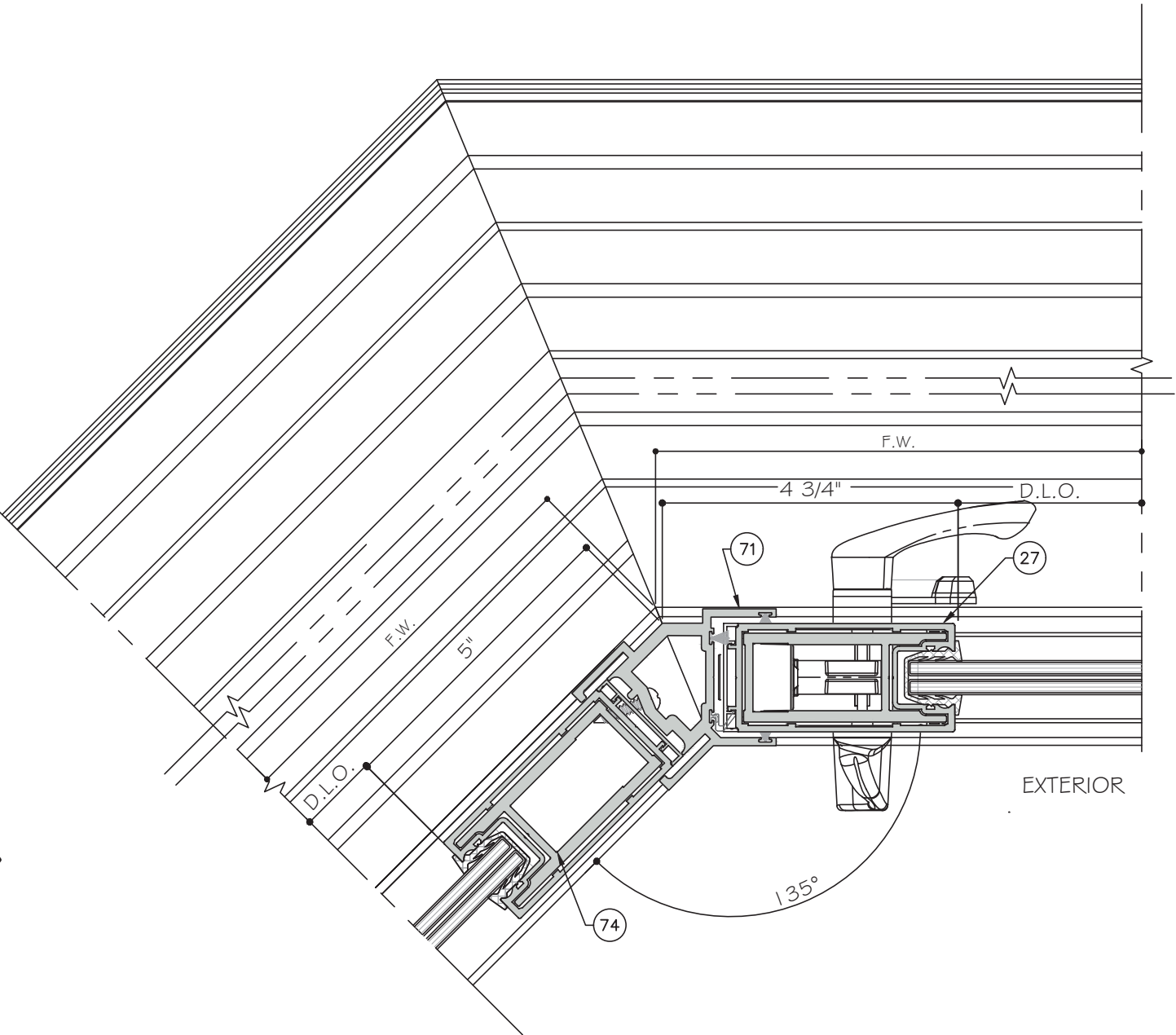
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DRAWING NO. AD23-79

Sheet No. D4.4
33 OF 55



43 DETAIL
D4.5



44 DETAIL
D4.5

CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS SEE LIMITATION ON SHEET 5.



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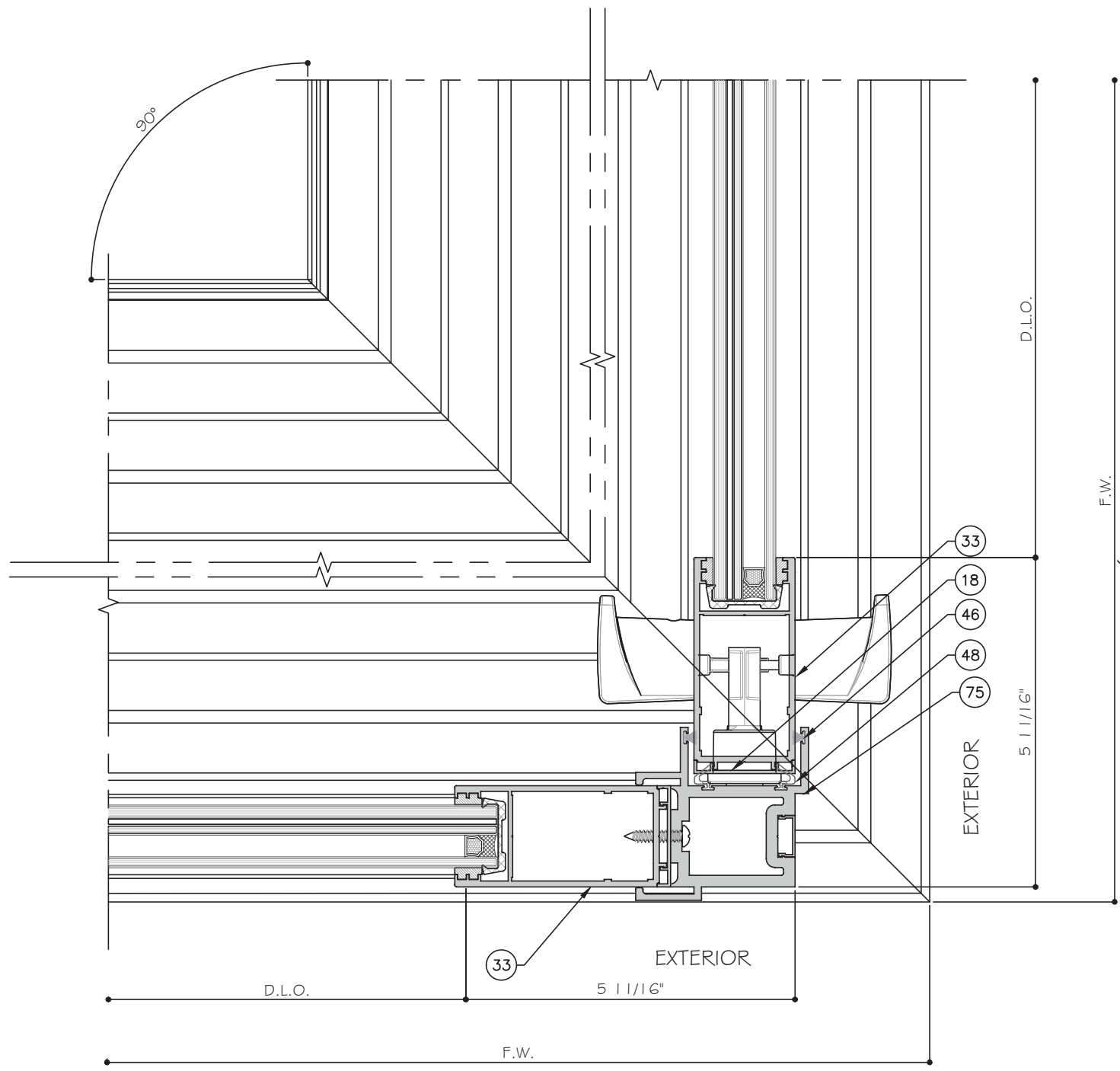
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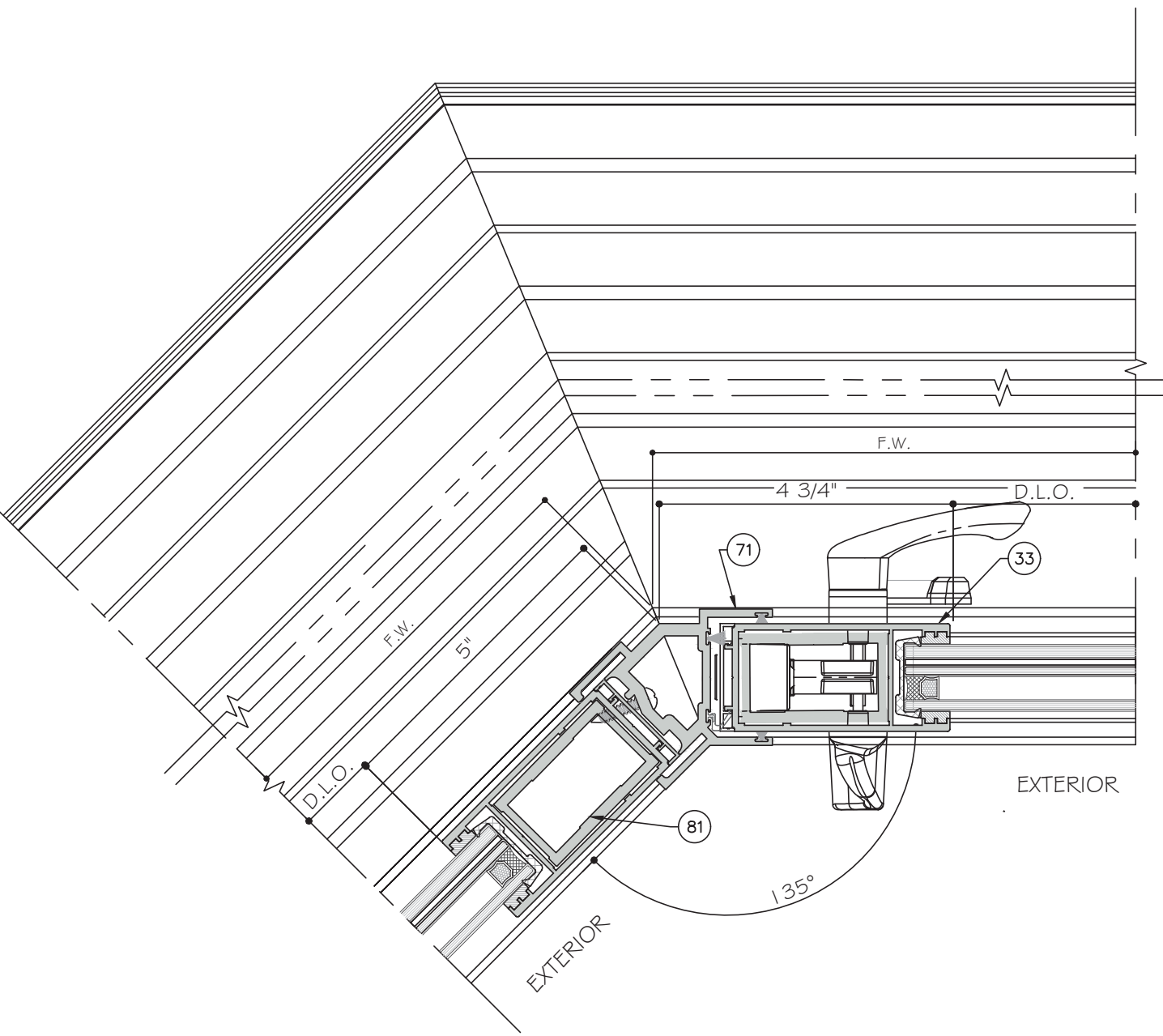
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DRAWING NO.: AD23-79

Sheet No.: 34 OF 55



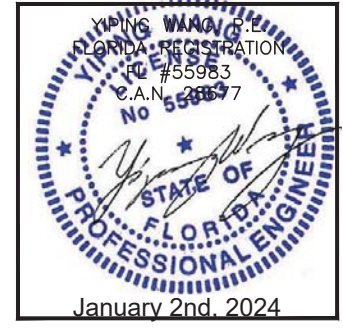
45 DETAIL
D4.6



46 DETAIL
D4.6

CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS SEE LIMITATION ON SHEET 5.



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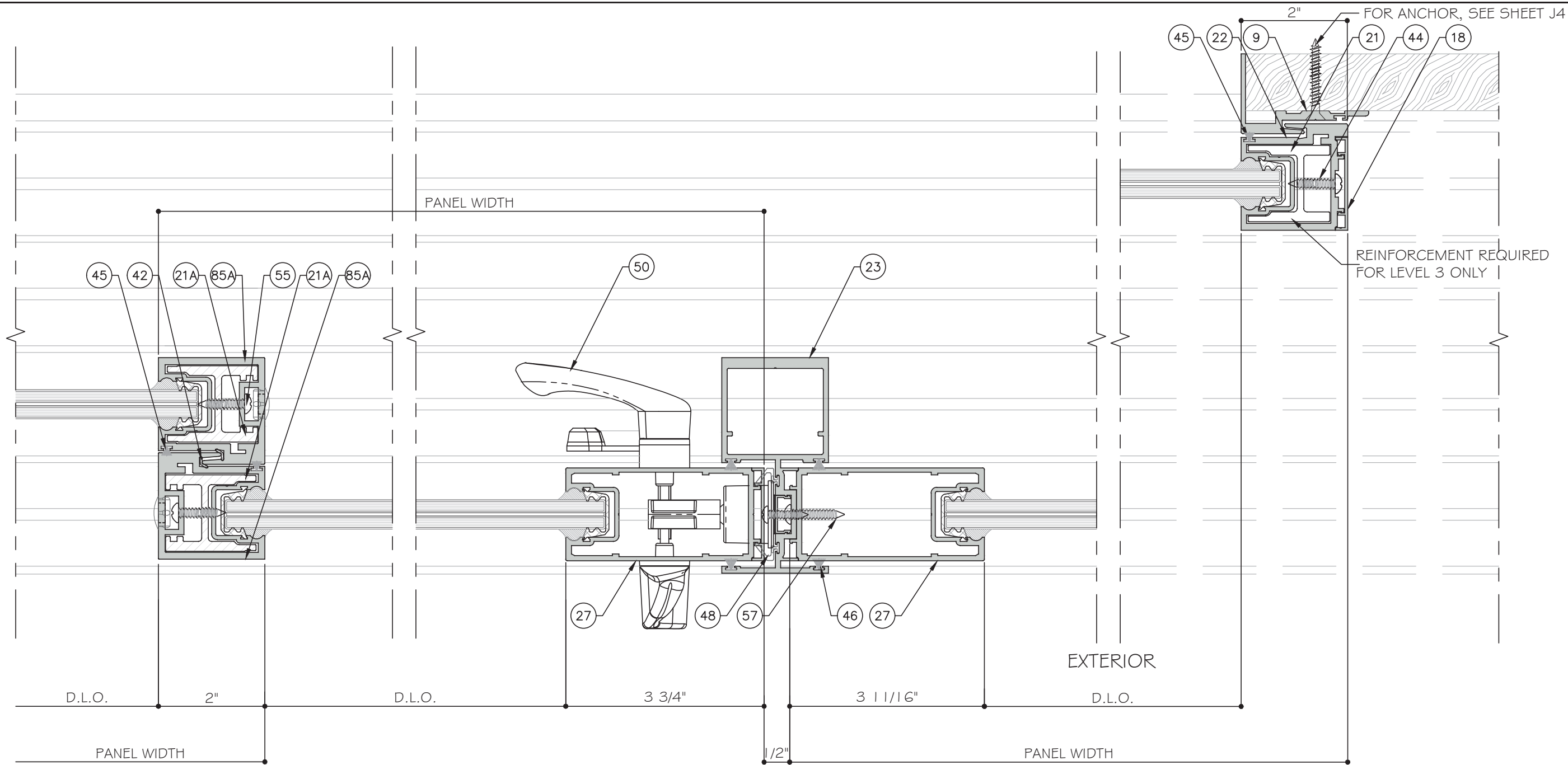
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AD23-79

D4.6

Sheet No.
35 OF 55



10
D5

DETAIL

11
D5

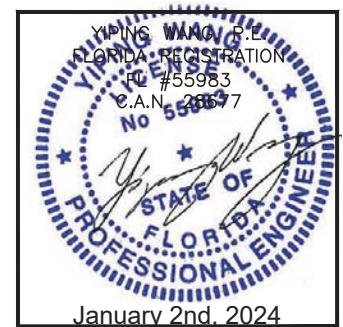
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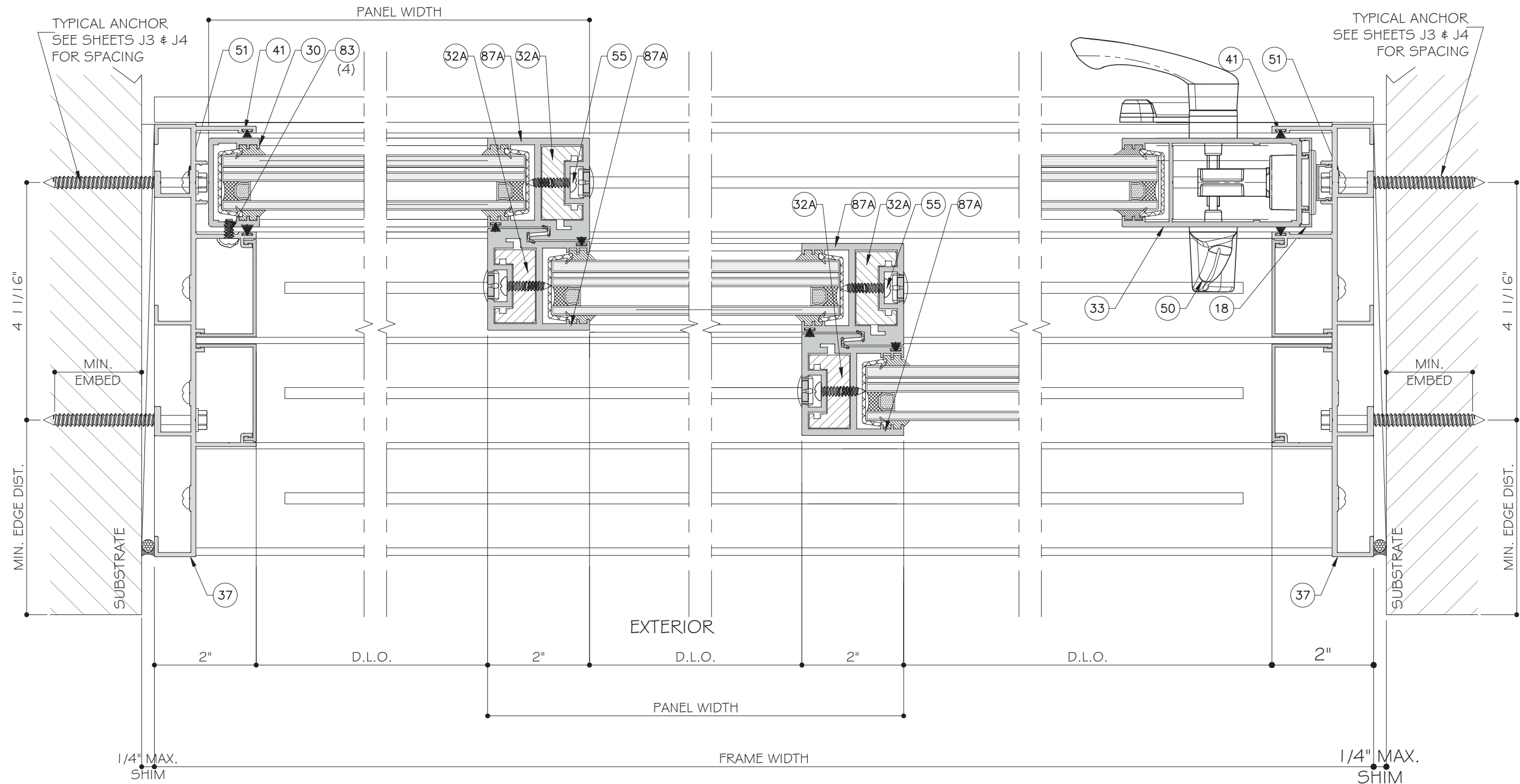
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

FOUR (4) TRACK DOOR DETAILS



Rev	Date	Drawn By	Description
1	12.21.2023	James	NEW APPLICATION
2	12.27.2023	James	AS SHOWN
DRAWING NO. AD23-79			
Sheet No. 36 OF 55			



13
D6

DETAIL

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D6

DETAIL

15
D6

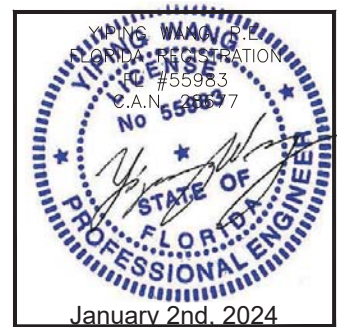
DETAIL

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DETAIL

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

FOUR (4) TRACK DOOR DETAILS



ES-SGD2020TG SLIDING GLASS DOOR (SMI)

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

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

Rev	No.	Date	Drawn By	Description
1	1	12.21.2023	James	NEW APPLICATION

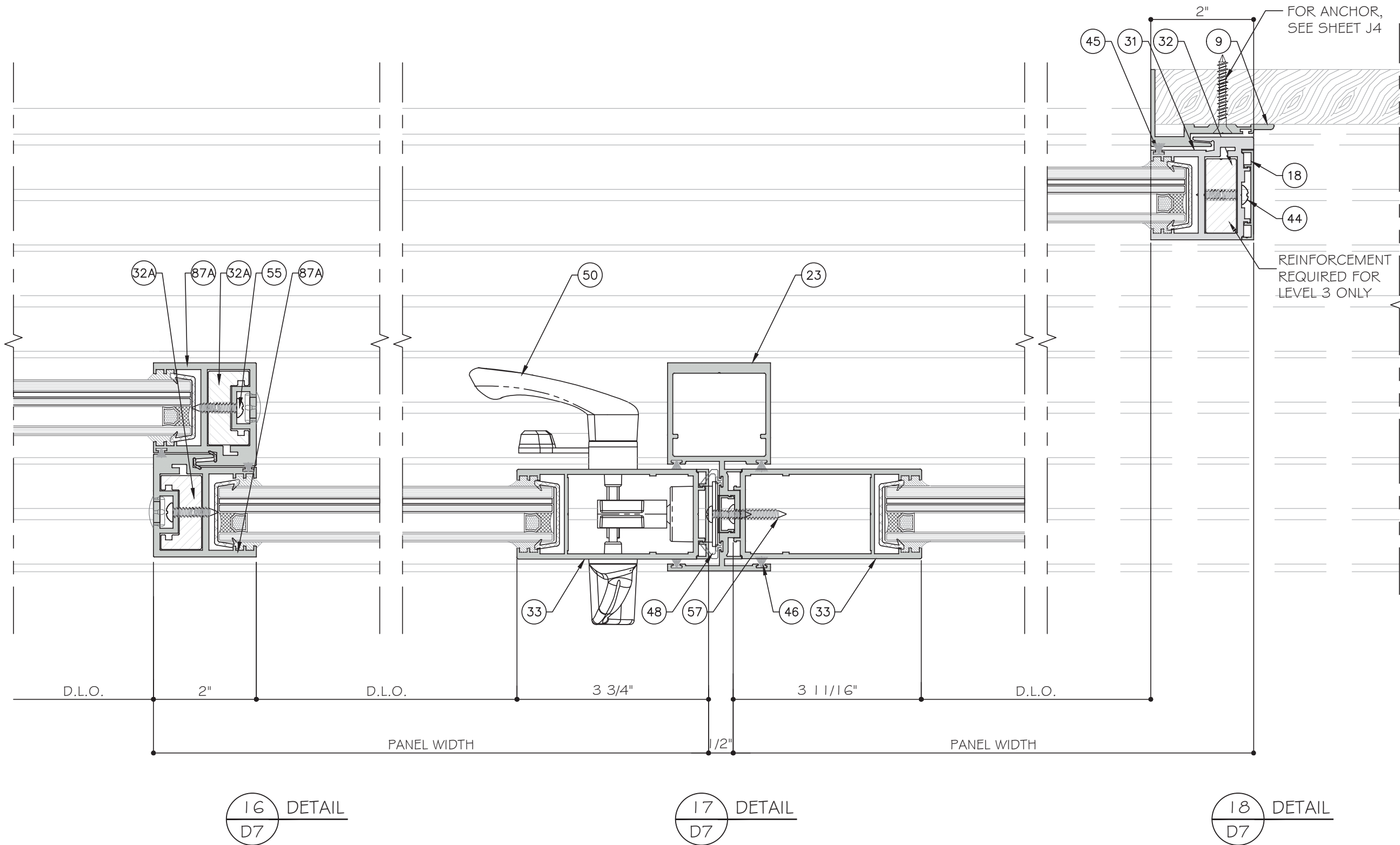
Drawn Date
12.27.2023

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AS SHOWN

DRAWING NO.
AD23-79

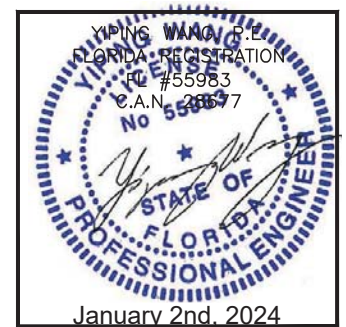
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37 OF 55



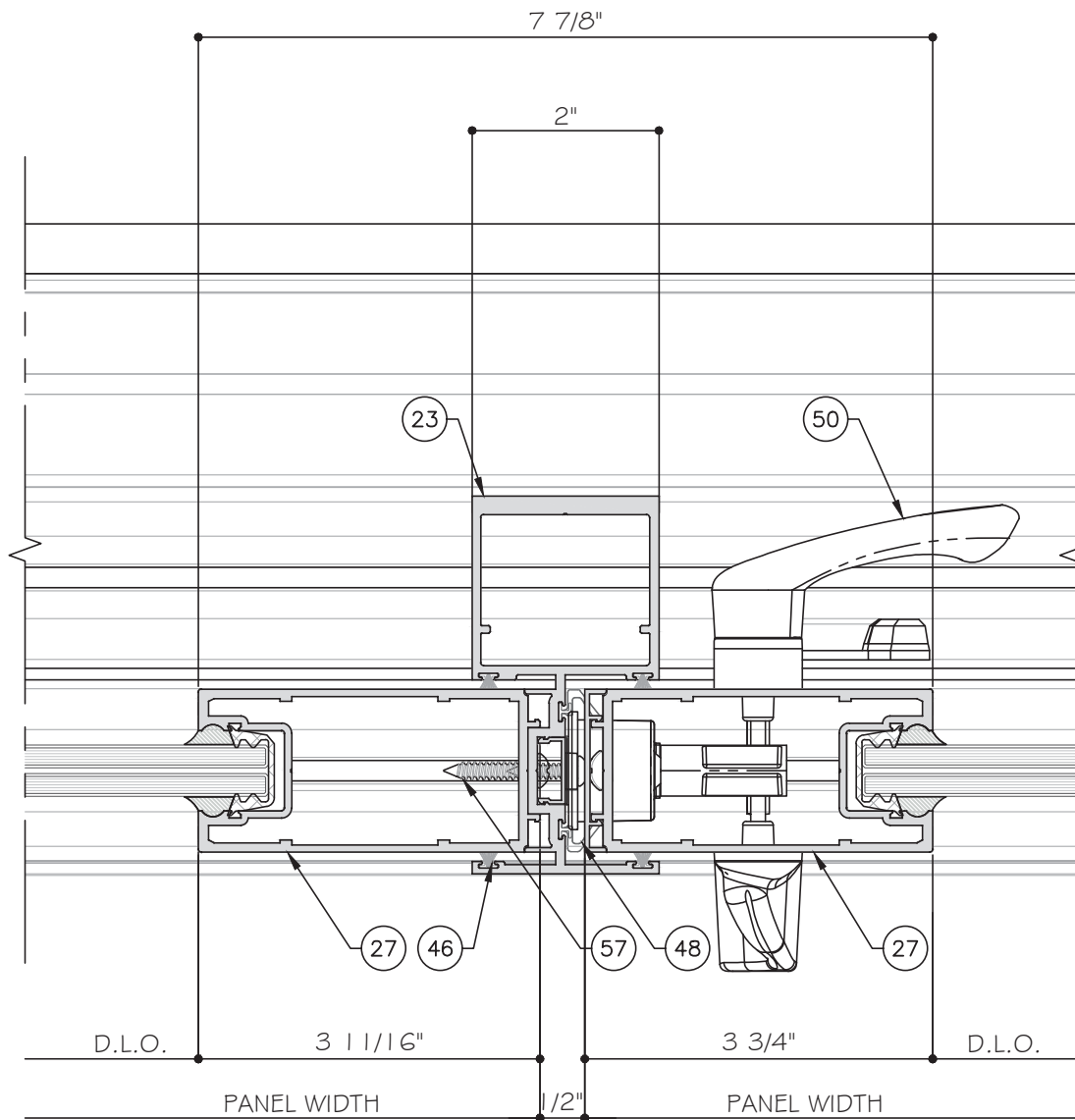
FOUR (4) TRACK DOOR DETAILS

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.



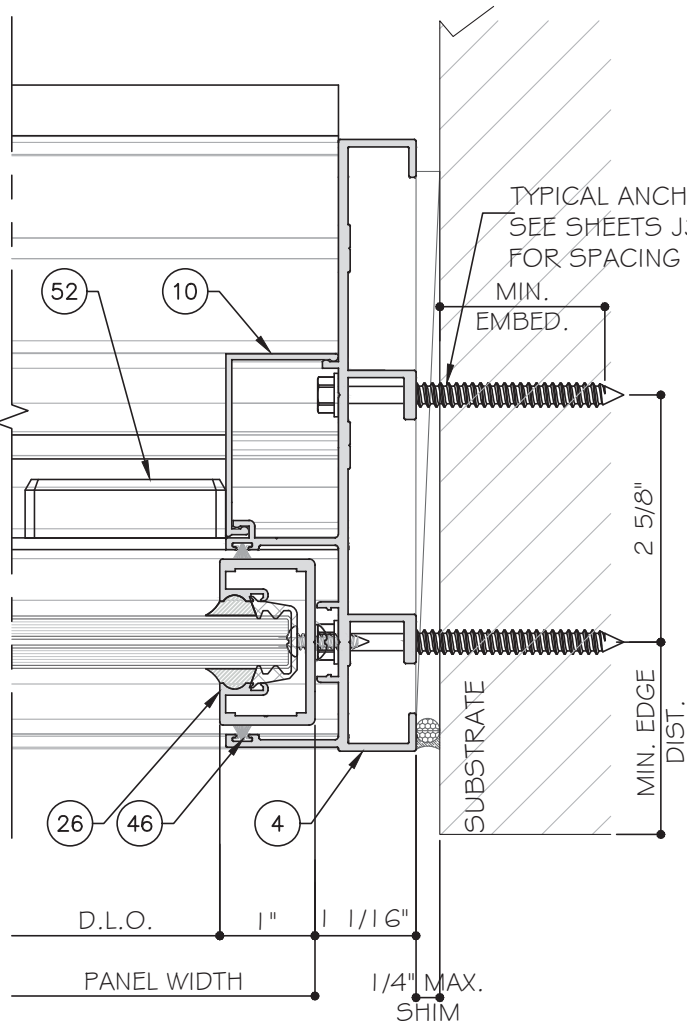
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Drawn Date	12.27.2023	Scale	AS SHOWN
DRAWING NO.	AD23-79		
Sheet No.	38 OF 55		



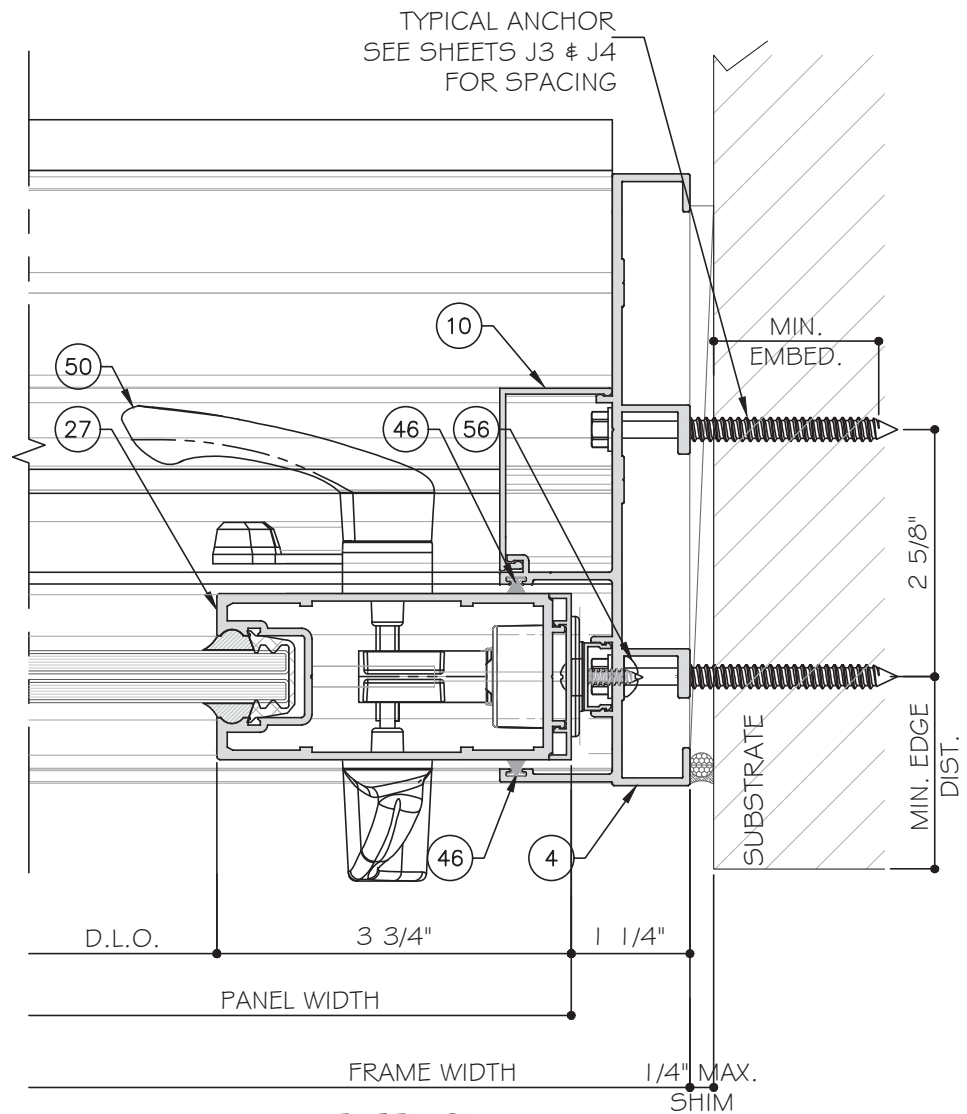


EXTERIOR

22
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DETAIL



23
D9
DETAIL



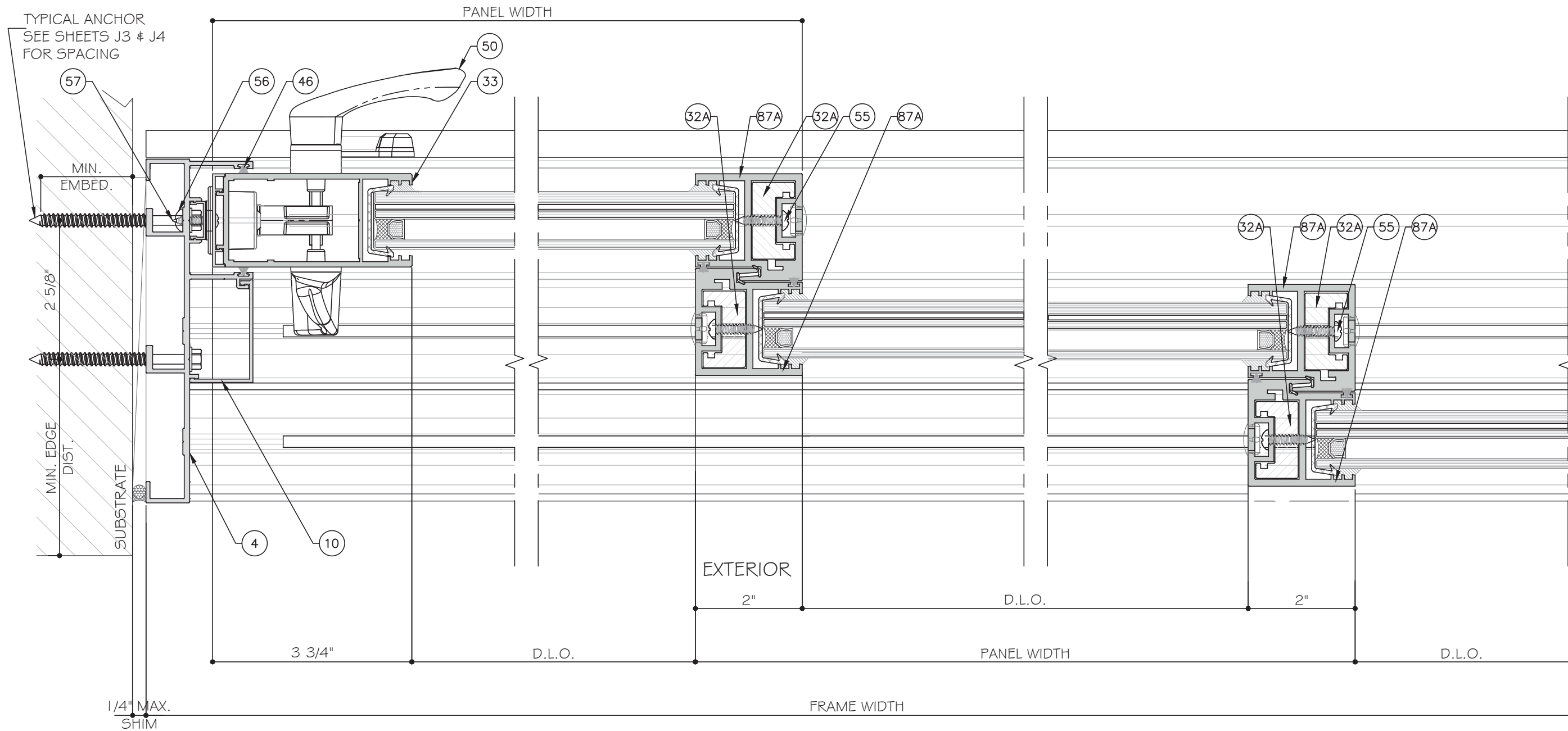
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LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

THREE (3) TRACK DOOR DETAILS



Rev	Date	Drawn By	Description
R1	12.21.2023	James	NEW APPLICATION
Drawn Date	12.27.2023	Scale	AS SHOWN
DRAWING NO.	AD23-79		
Sheet No.	D9		
40 OF 55			



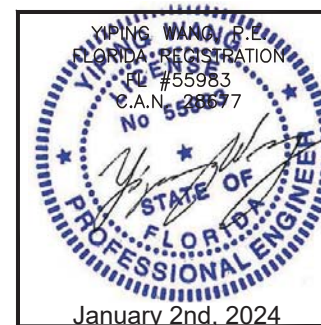
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DIO
DETAIL

26
DIO
DETAIL

27
DIO
DETAIL

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

THREE (3) TRACK DOOR DETAILS



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TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

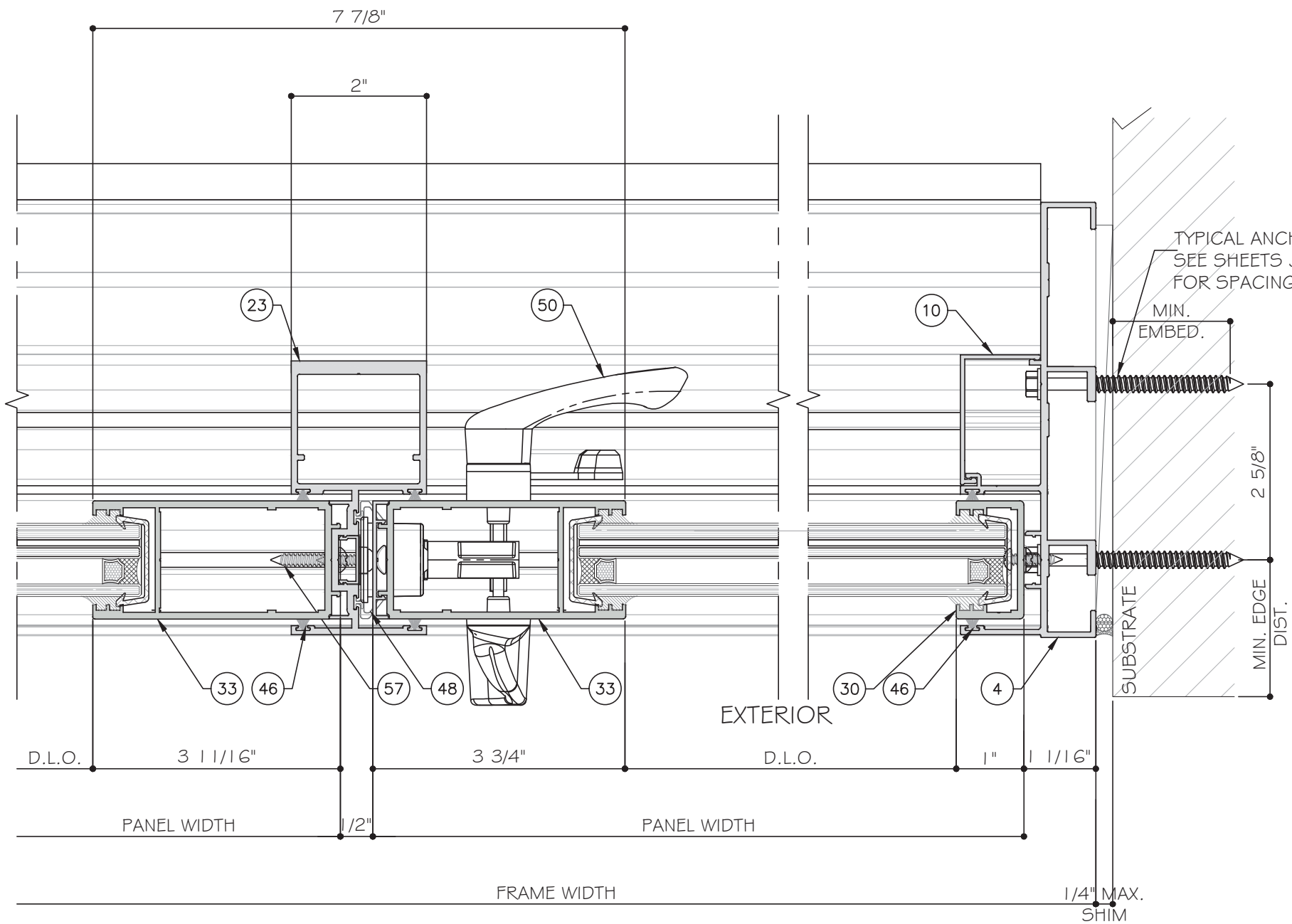
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Drawn Date: 12.27.2023

Scale: AS SHOWN

DRAWING NO.: AD23-79

Sheet No.: 41 OF 55



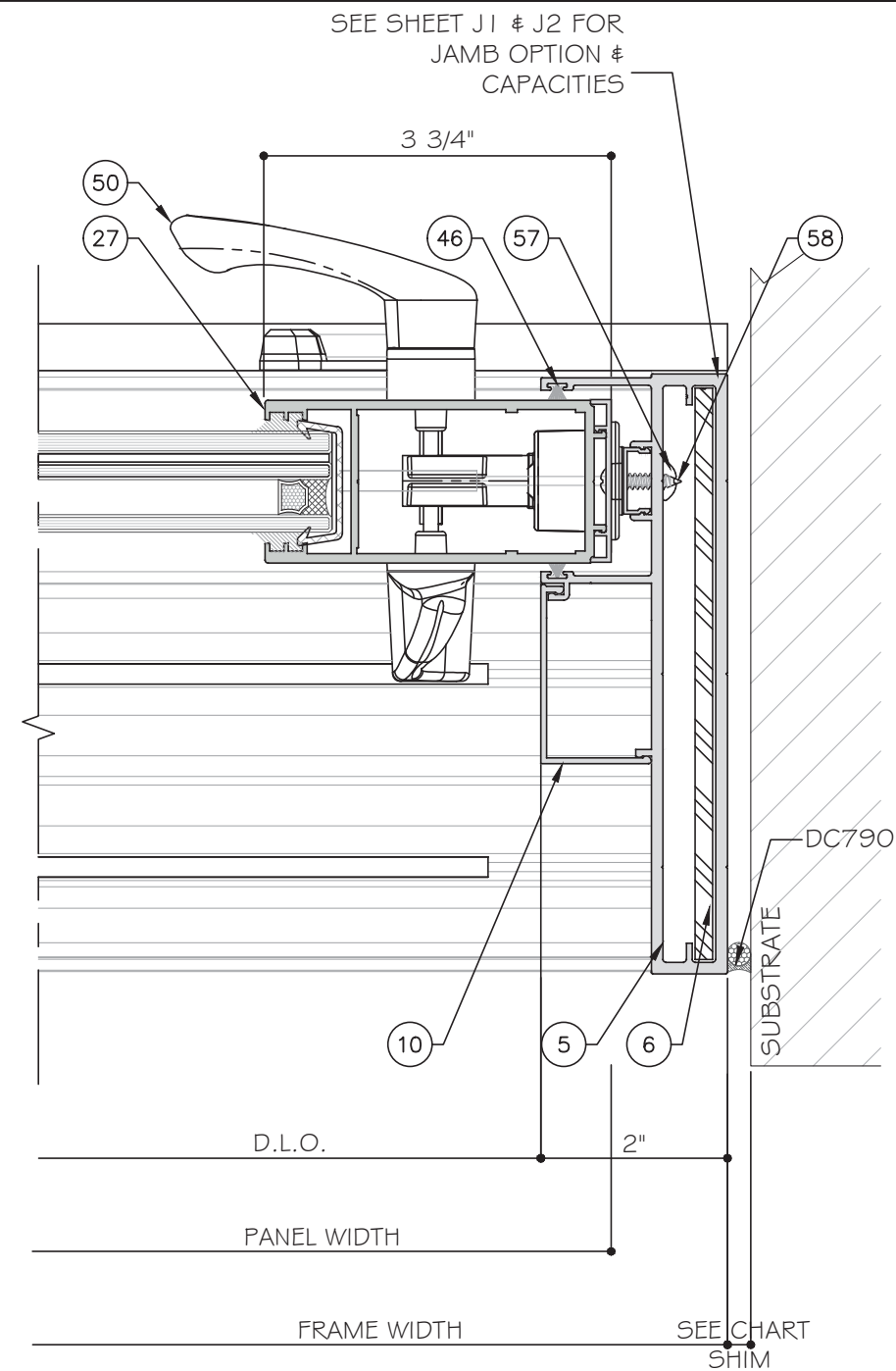
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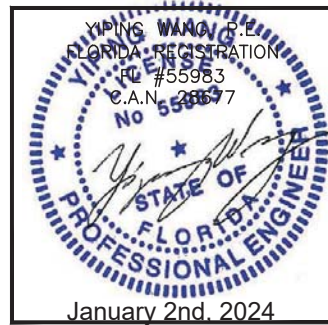
THREE (3) TRACK DOOR DETAILS

29
D11

FH	MIN. GAP	MAX.
108"	1/2"	2"
120"	3/4"	2"
144"	1"	2"



FREESTANDING JAMB FOR 3 TRACKS OPTION



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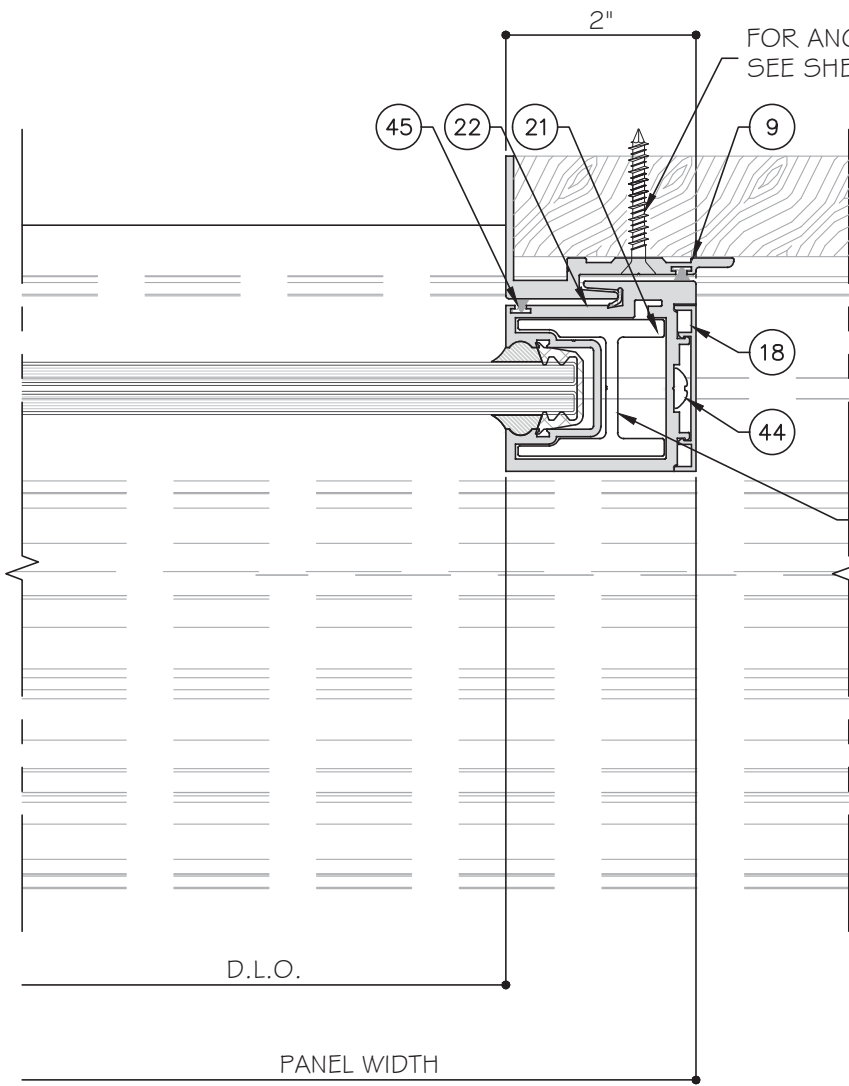
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1	12.27.2023	James	NEW APPLICATION

Drawn Date
12.27.2023

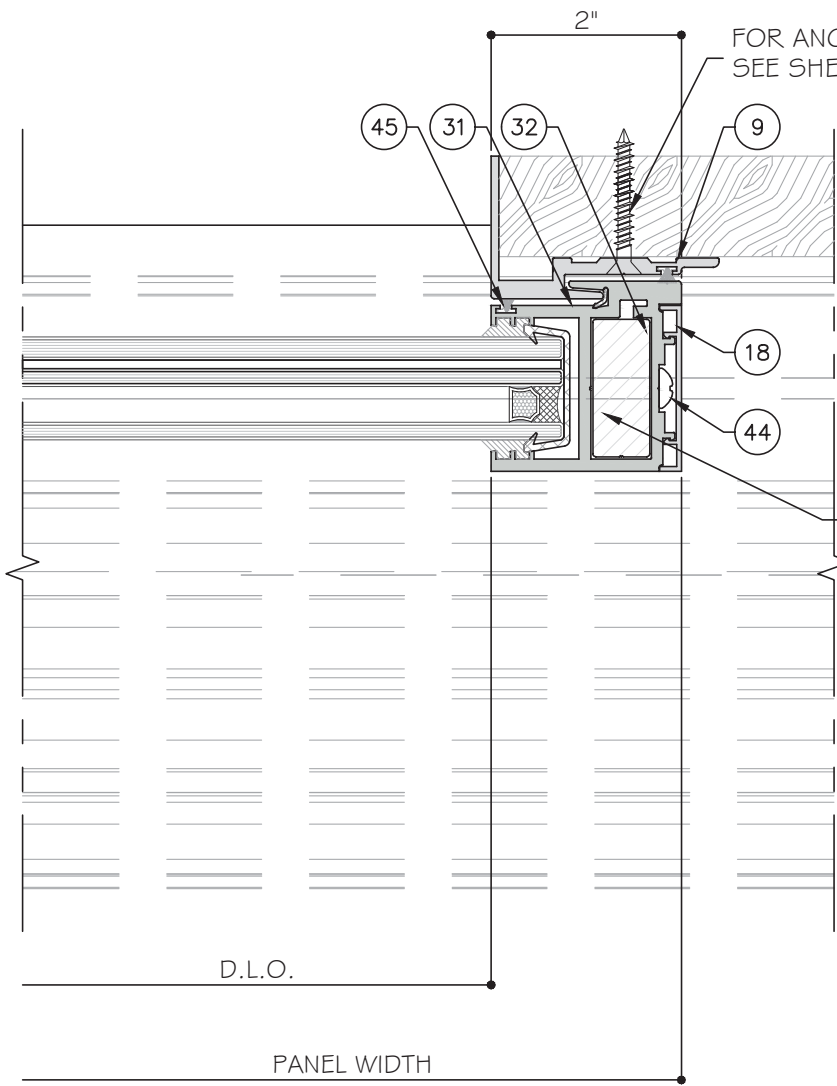
Scale
AS SHOWN

DRAWING NO.
AD23-79

Sheet No.
42 OF 55



30
D12
DETAIL



31
D12
DETAIL

POCKET DETAIL



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mcy@mcyengineering.com

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TECNOGLASS, LLC

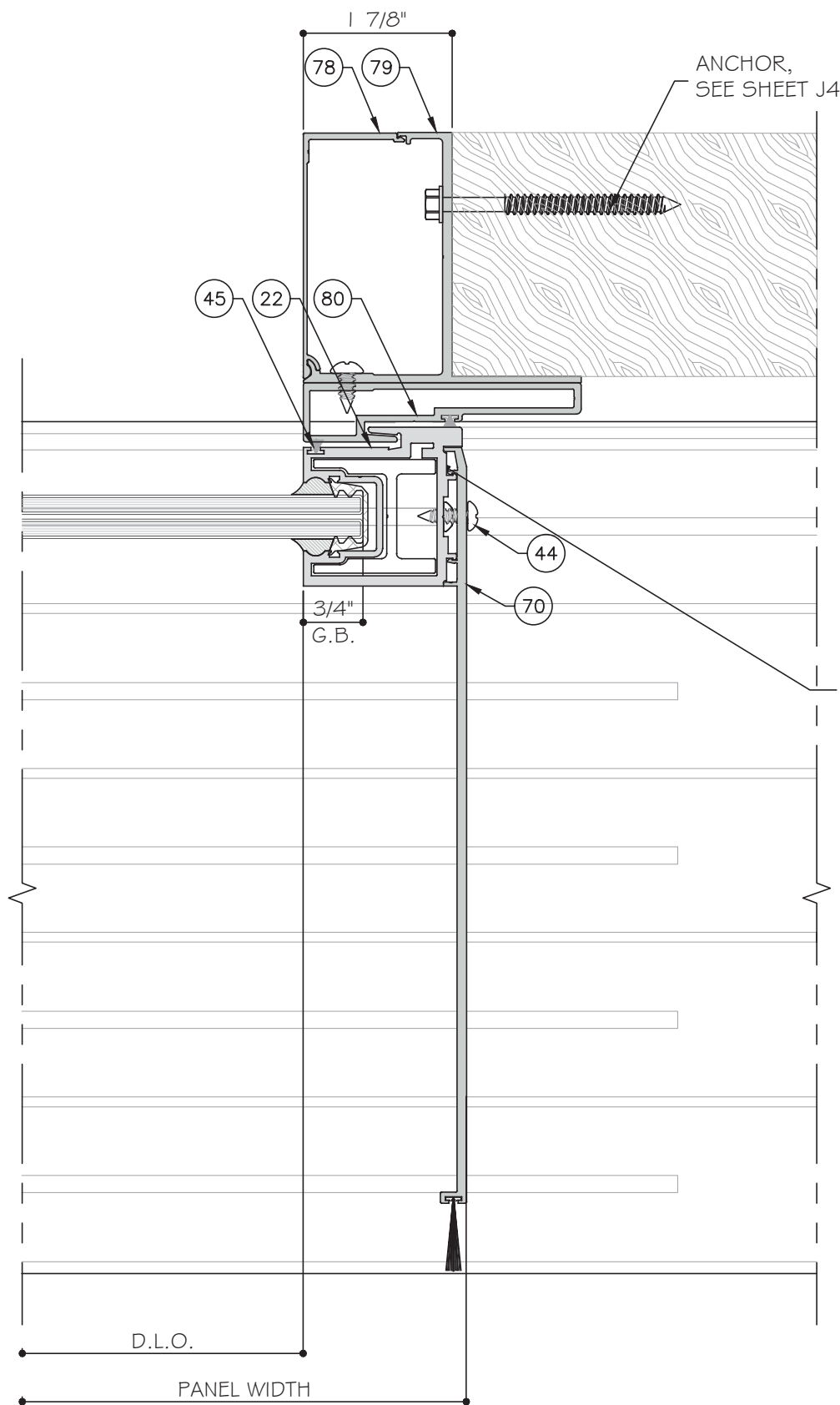
3550 NW 49TH STREET

MIAMI, FL 33142

PH: (305)–342–0890

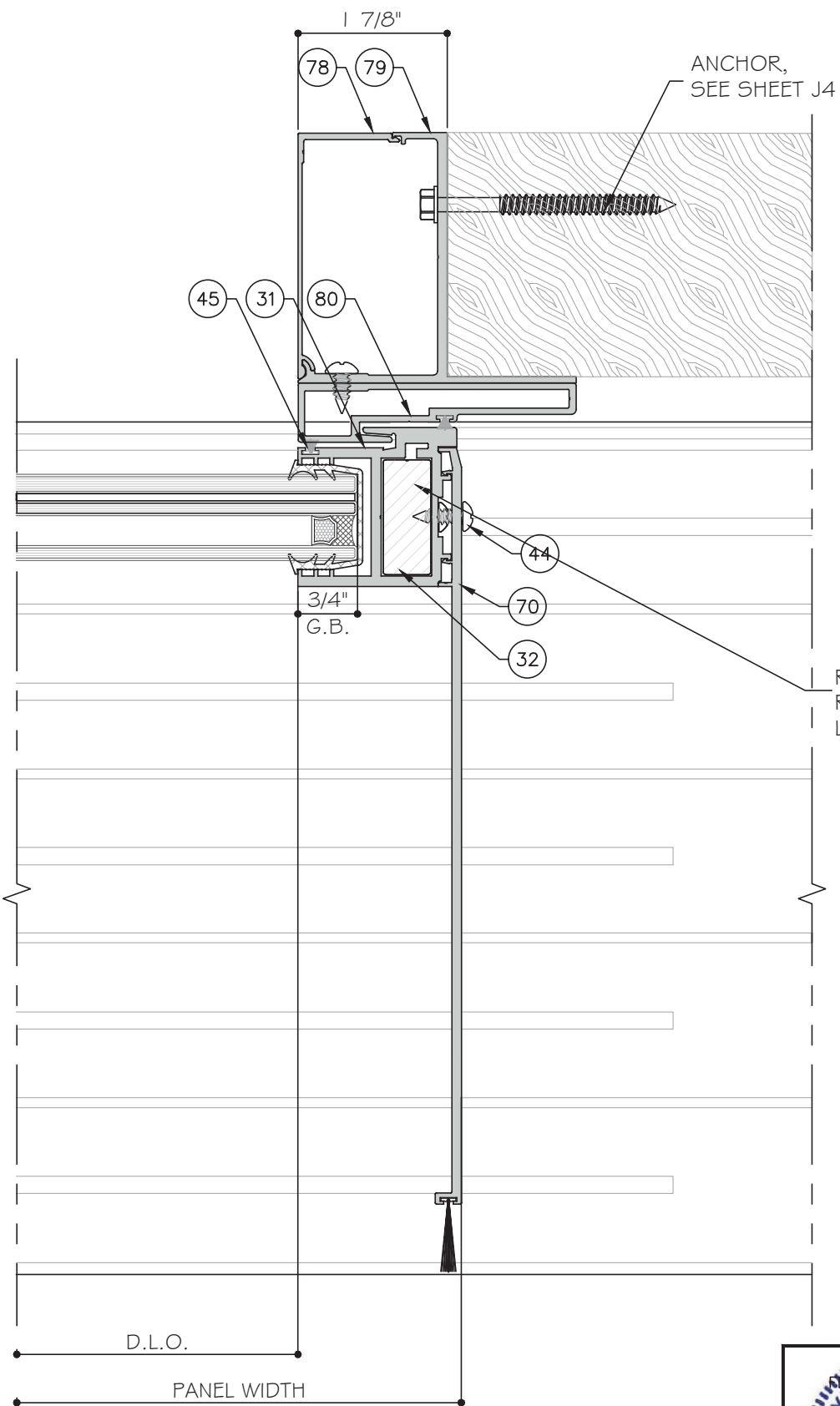
FAX (786) 513–3965

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30A
D12A

POCKET DETAIL



31A
D12A



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3550 NW 49TH STREET

MIAMI, FL 33142

PH: (305)-342-0890

FAX (786) 513-3965

Rev.	Date	Drawn By	Description
1	12.21.2023	James	NEW APPLICATION

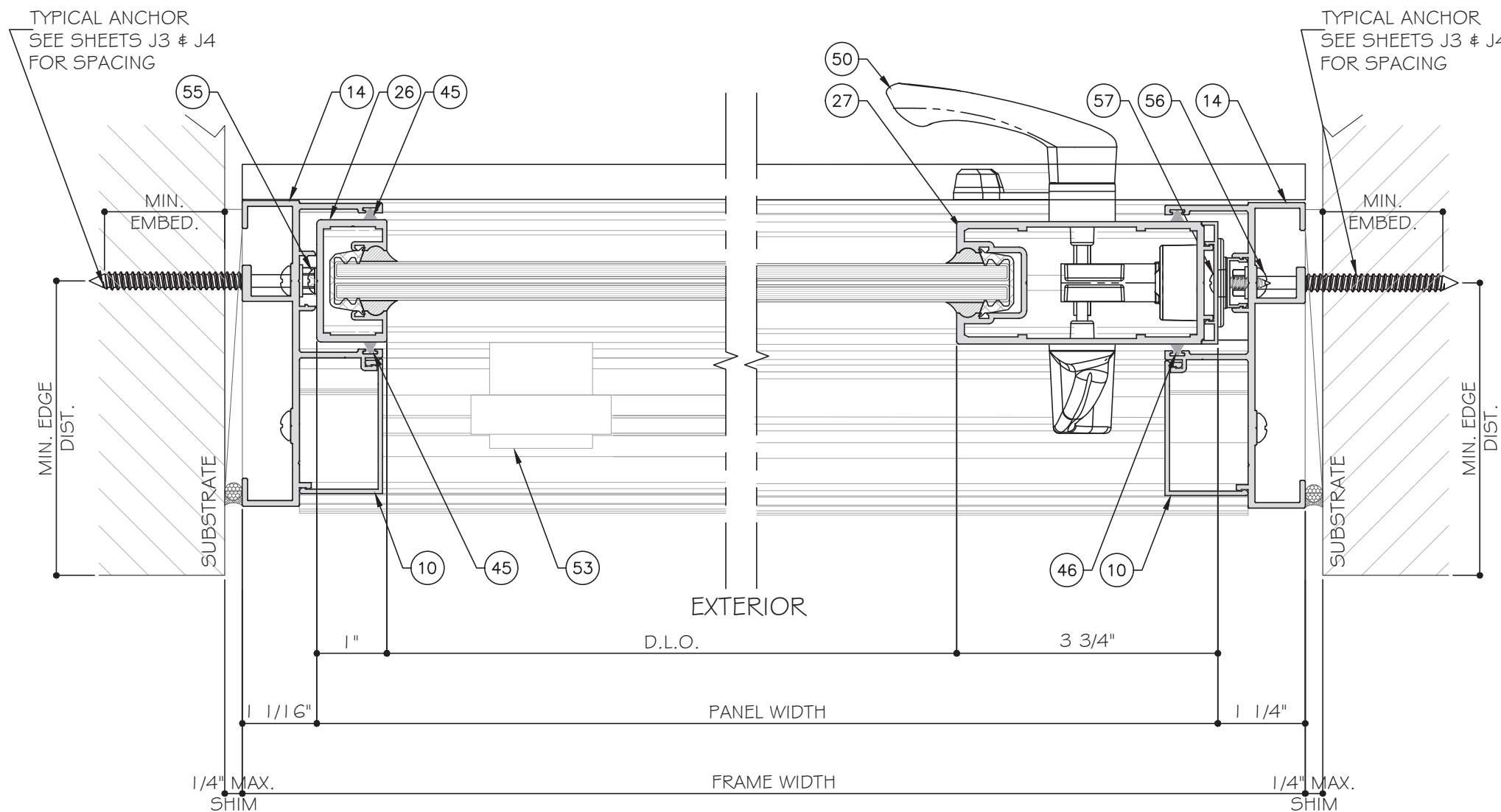
Drawn Date
12.27.2023

Scale
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DRAWING NO.
AD23-79

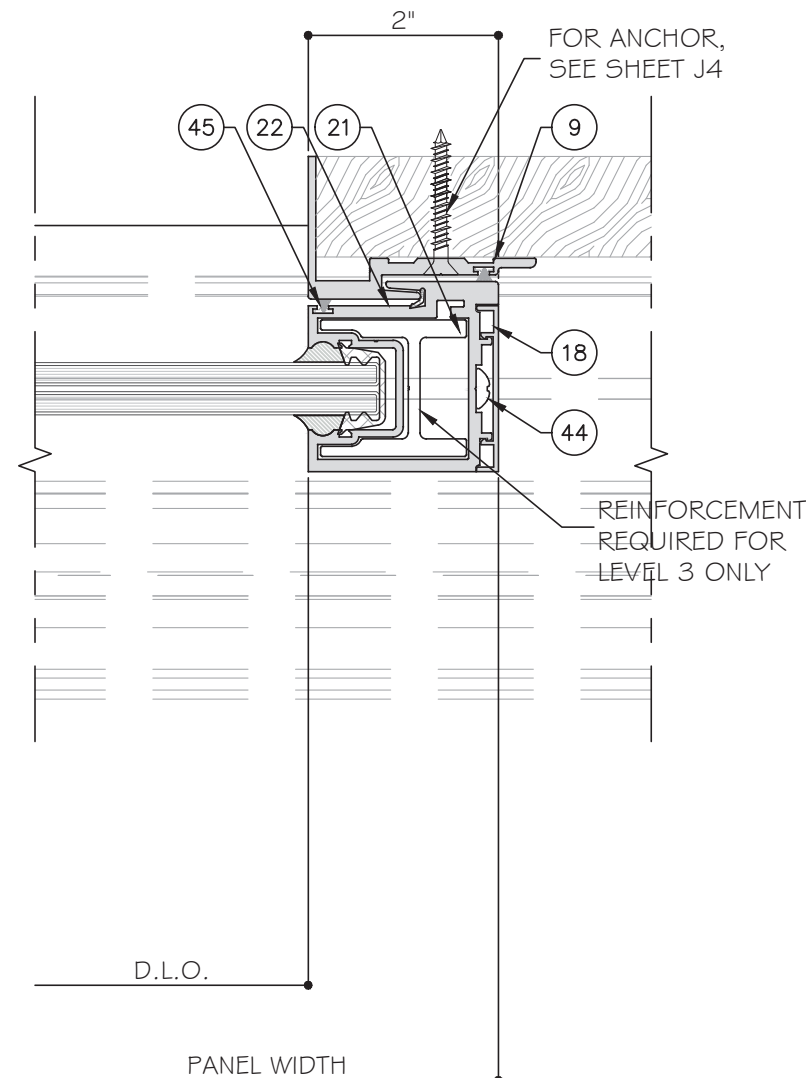
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Sheet No.
44 OF 55



32 DETAIL
D13

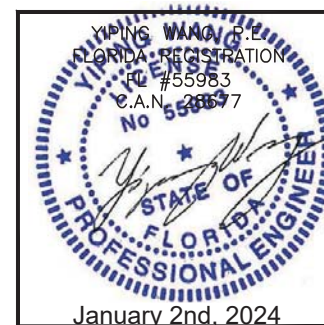
33 DETAIL
D13



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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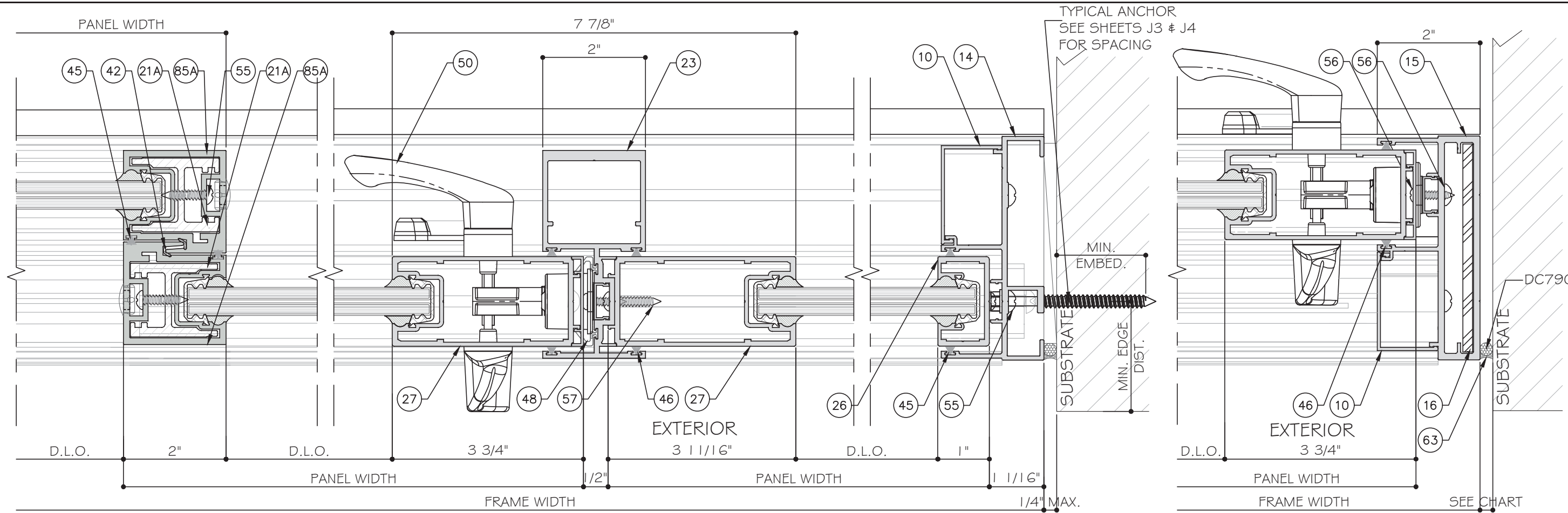
Rev	Date	By	Description
1	12.27.2023	James	NEW APPLICATION

Drawn Date: 12.27.2023

Scale: AS SHOWN

DRAWING NO.: AD23-79

Sheet No.: 45 OF 55



35
D14
DETAIL

36
D14
DETAIL

37
D14
DETAIL

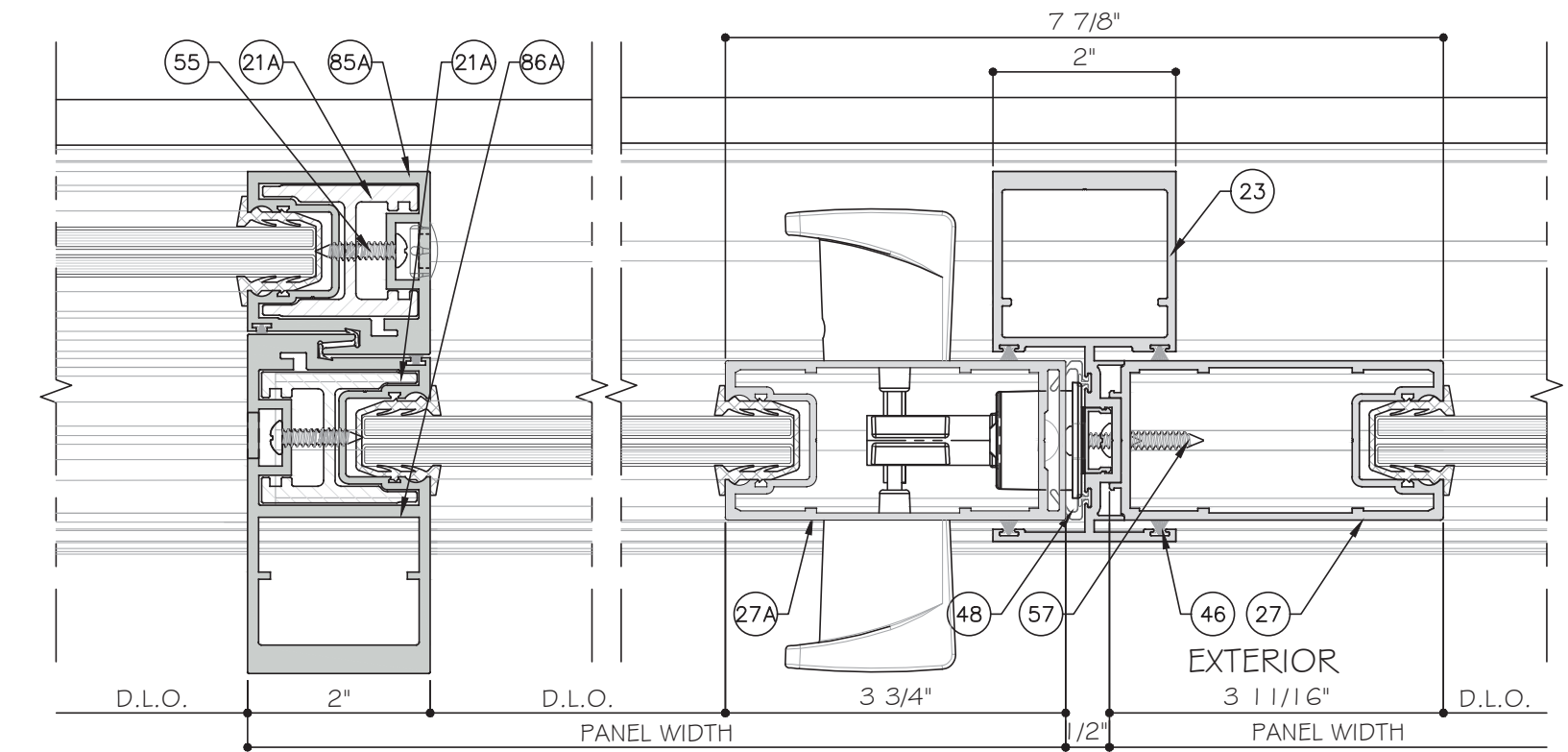
FREESTANDING JAMB OPTION

FH	MIN. GAP	MAX.
108"	1/2"	2"
120"	3/4"	2"
144"	1"	2"

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



35
D14
OPTION

36
D14
OPTION



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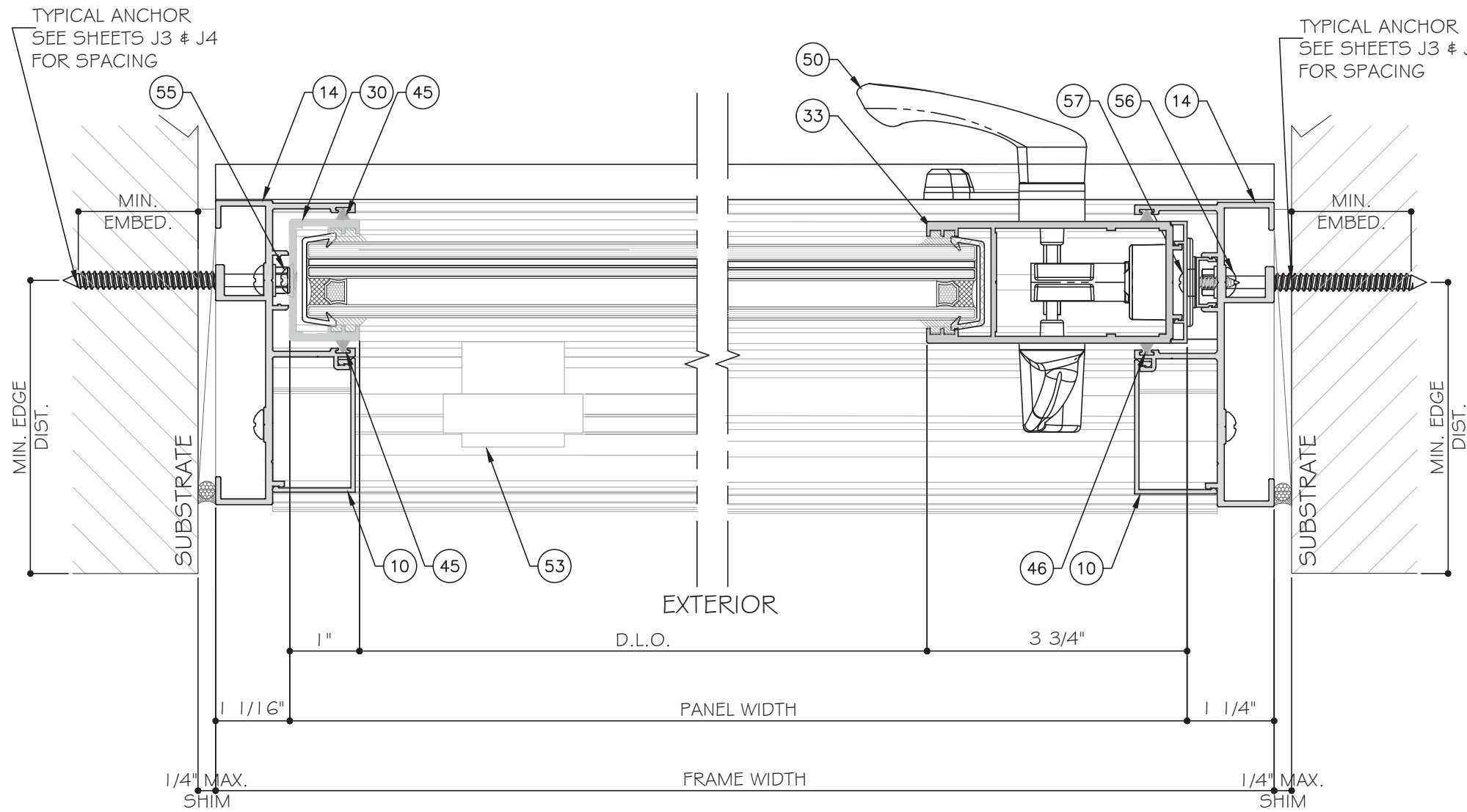
Rev	Date	Drawn By	Description
R1	12.21.2023	James	NEW APPLICATION

Drawn Date
12.27.2023

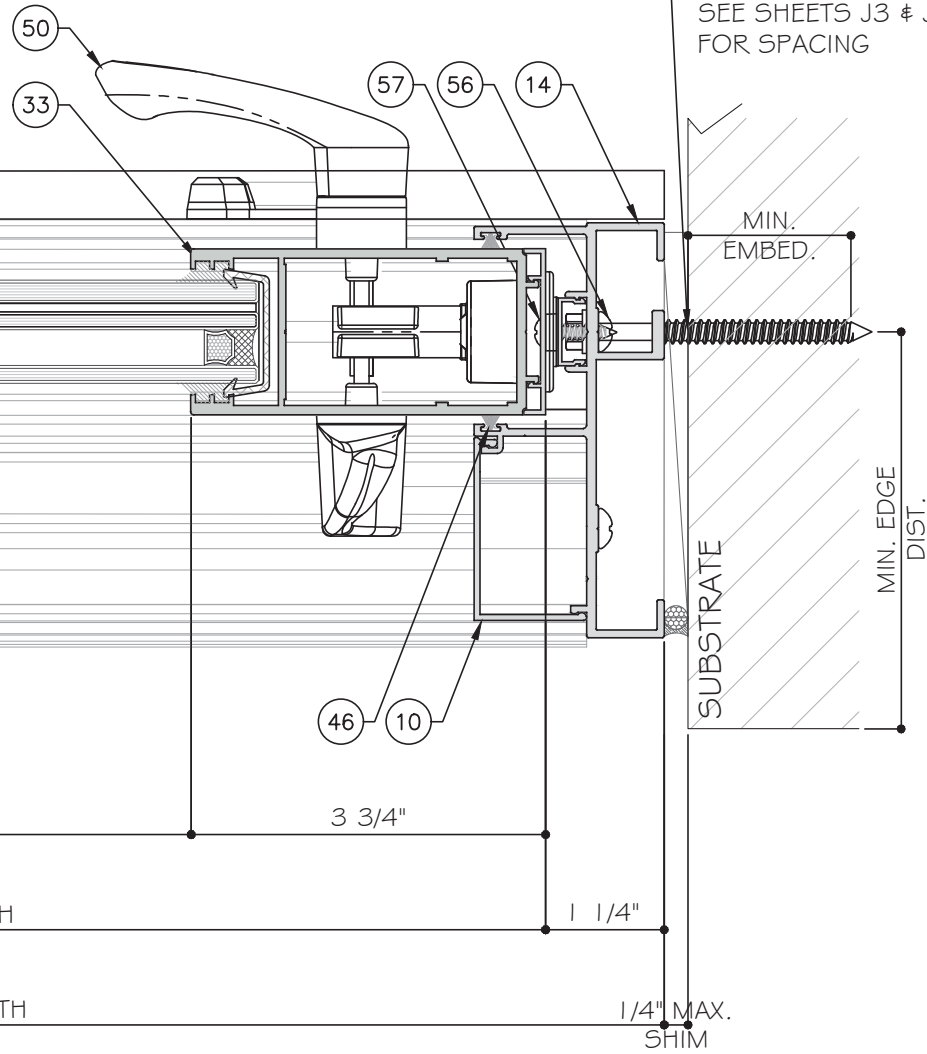
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DRAWING NO.
AD23-79

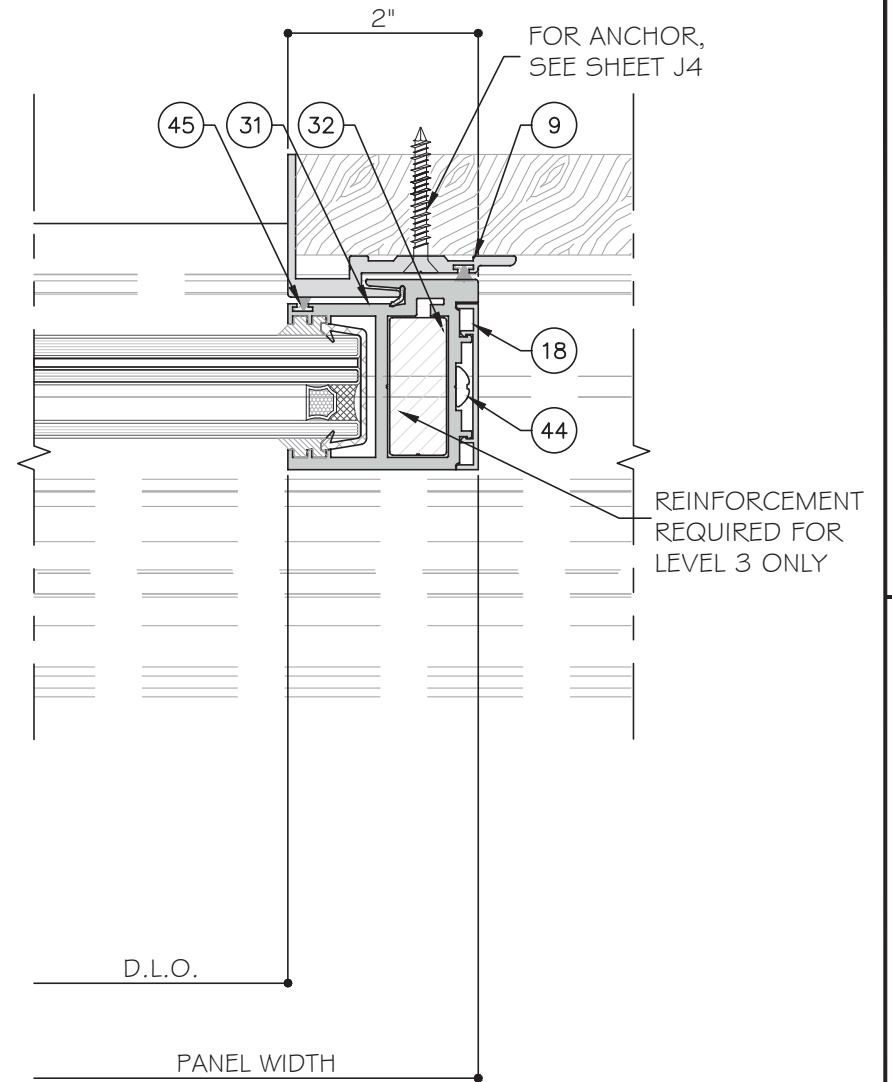
Sheet No.
46 OF 55



38
D15
DETAIL



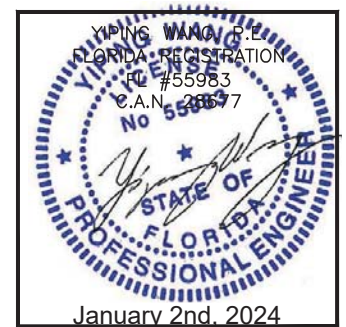
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DETAIL



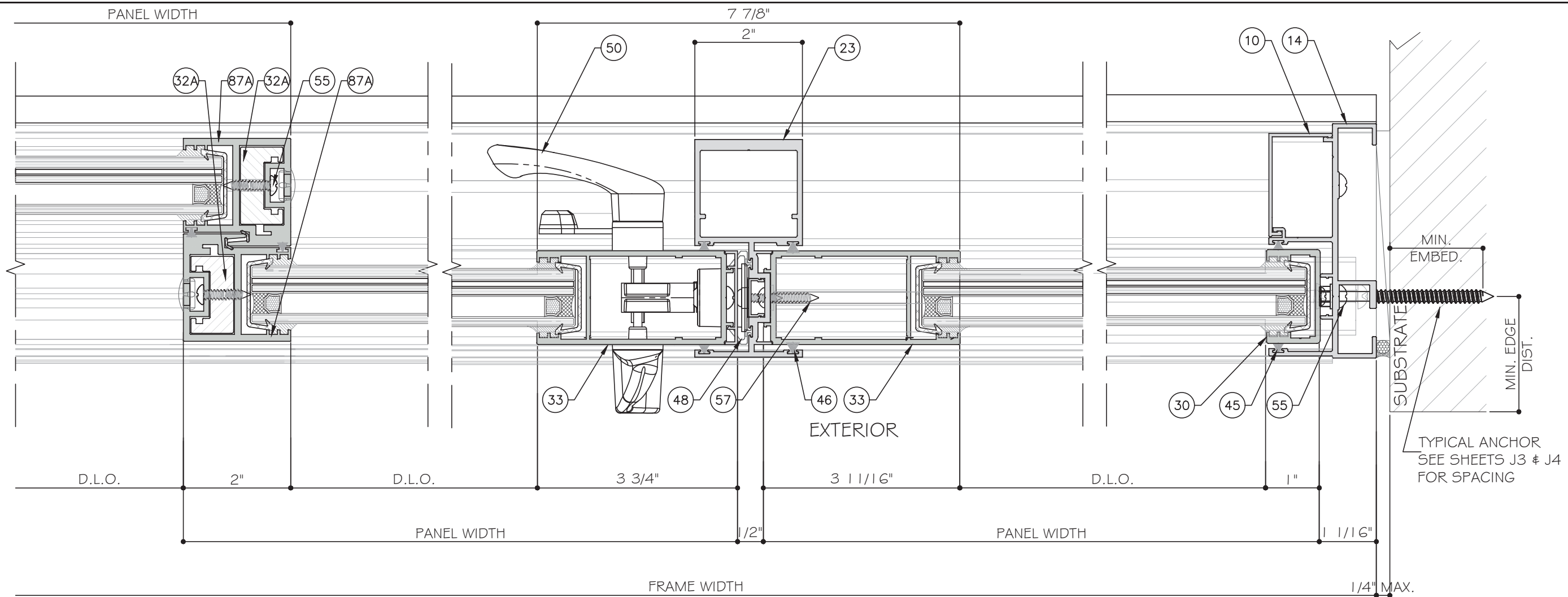
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D15
DETAIL

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

TWO (2) TRACK DOOR DETAILS



Rev	Date	Drawn By	Description
1	12.21.2023	James	NEW APPLICATION
2	12.27.2023	James	AS SHOWN
DRAWING NO. AD23-79			
Sheet No. 47 OF 55			



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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FAX (786) 513-3965

Rev.	Date	Drawn By	Description
K1	12.21.2023	James	NEW APPLICATION

Drawn Date

12.27.2023

Scale

AS SHOWN

DRAWING NO.

AD23-79

Sheet No.

48 OF 55

41

DETAIL

D16

OPTION

42

DETAIL

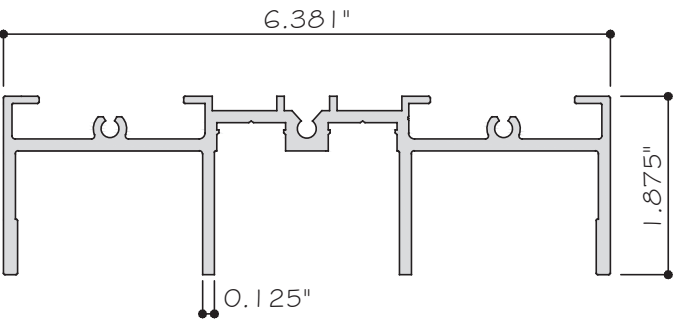
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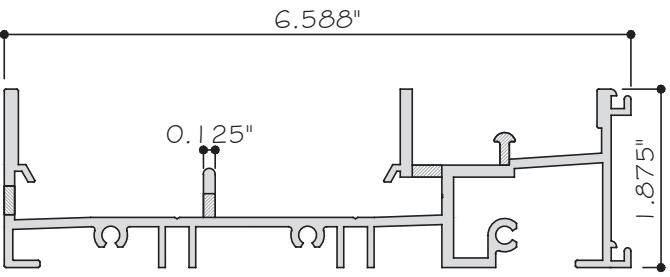
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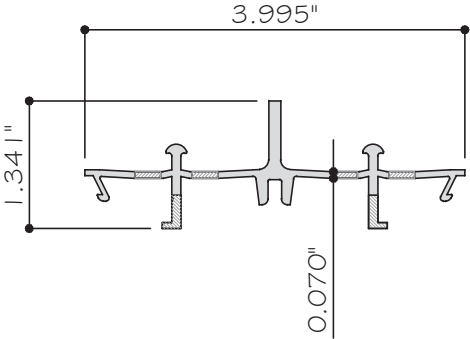
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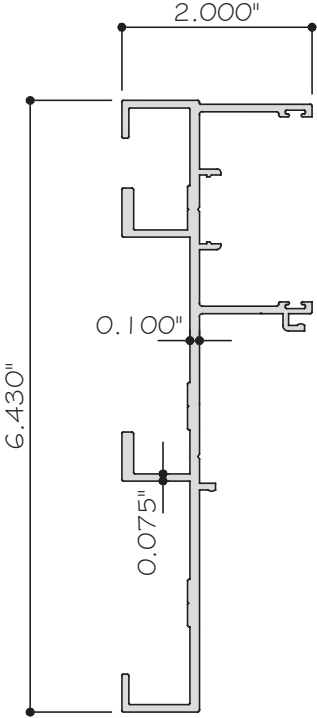
1 HEAD (3 TRACK)
ES-SGD2020-001 6063-T6



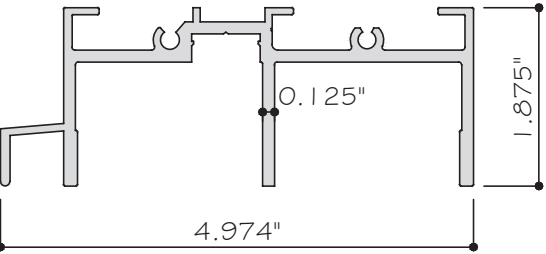
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ES-SGD2020-002 6063-T6



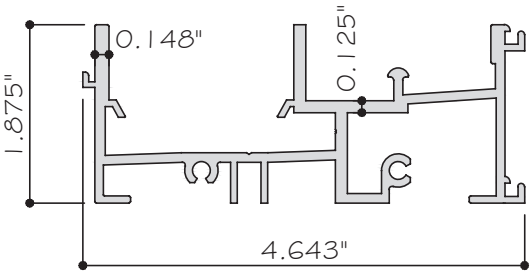
3 FRAME SILL COVER (3 TRACKS)
ES-SGD2020-003 6063-T6



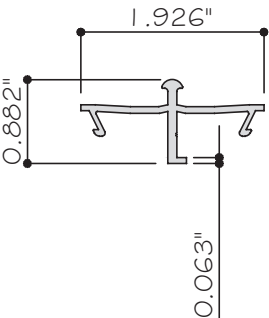
4 JAMB (3 TRACK)
ES-SGD2020-004 6063-T6



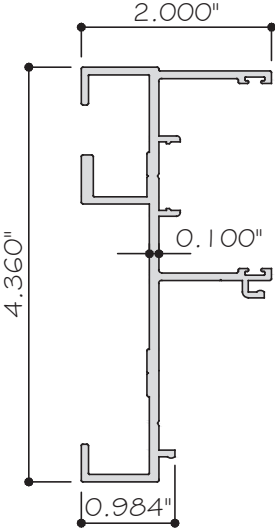
11 HEAD (2 TRACK)
ES-SGD2020-011 6063-T6



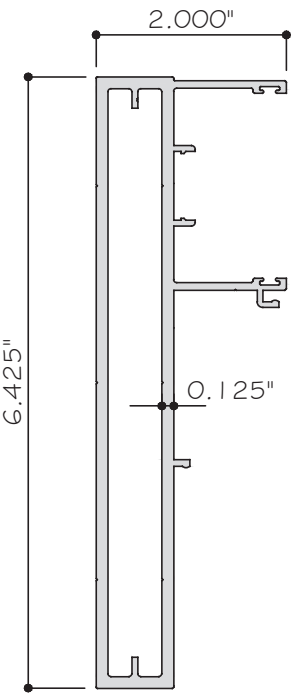
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ES-SGD2020-012 6063-T6



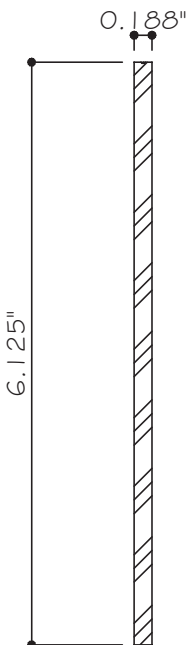
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ES-SGD2020-013 6063-T6



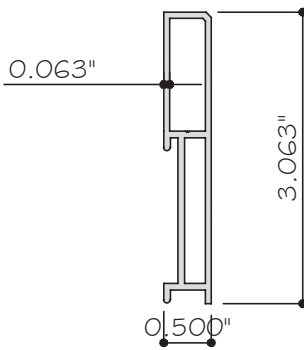
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ES-SGD2020-014 6063-T6



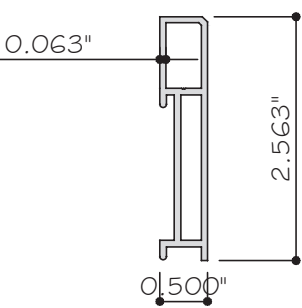
5 UNANCHORED JAMB (3 TRACK)
ES-SGD2020-005 6063-T6



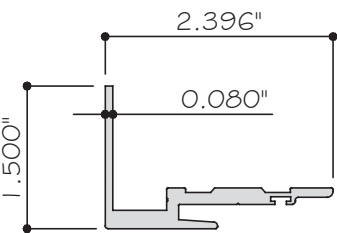
6 UNANCHORED JAMB REINF.
FOR 3 TRACK
ES-SGD2020-006 6005-T5



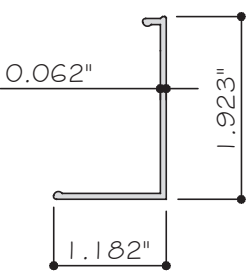
7 SILL RAISER 67PSF
ES-SGD2020-007 6063-T6



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

YIPING WANG

FLORIDA REGISTRATION

FL #55983

C.A.N. 23657

Professional Engineer

January 2nd, 2024

Drawn Date

12.27.2023

Scale

AS SHOWN

DRAWING NO.

AD23-79

PARTS

Sheet No.

49 OF 55

ES-SGD2020TG SLIDING GLASS DOOR (SMI)

TECNOGLASS, LLC

3550 NW 49TH STREET

MIAMI, FL 33142

PH: (305)-342-0890 FAX (786) 513-3965

Rev

No.

Date

Drawn By

Description

NEW APPLICATION

James

12.21.2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

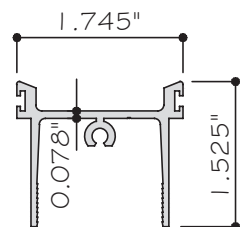
12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

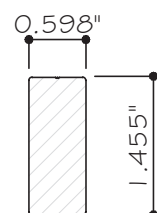
P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

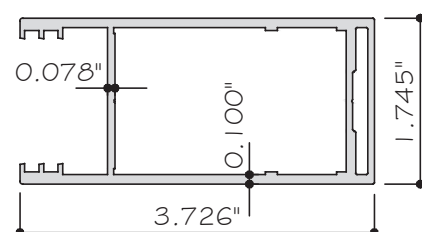


28 TOP RAIL FOR INSULATED LAMINATED
ES-SGD2020-028 6063-T6

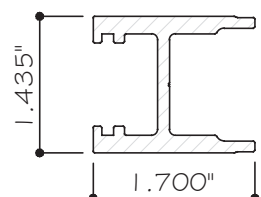


REINF. FOR INTERLOCK -
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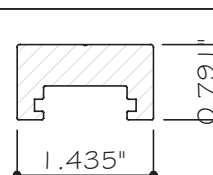
32 ES-SGD2020-032 6005-T5



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

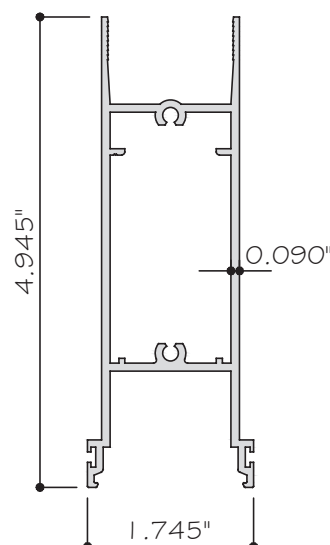


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21A ES-SGD2020-02 | A 6005-T5

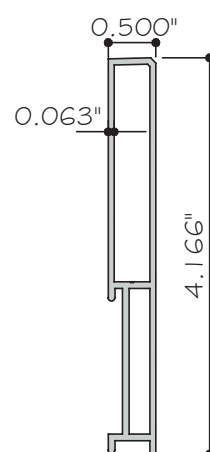


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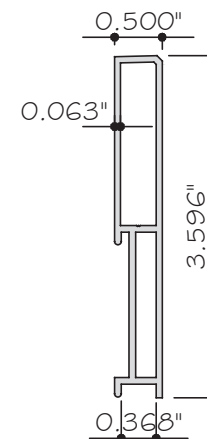
32A ES-SGD2020-032A 6005-T5



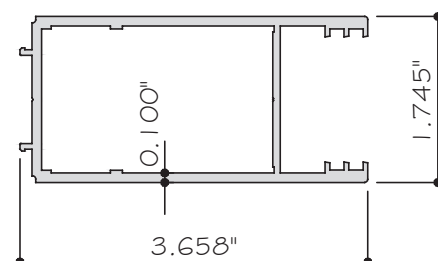
29 BOTTOM RAIL FOR
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ES-SGD2020-029 6063-T6



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

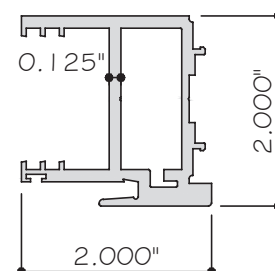


82 SILL RAISER - 80 PSF
ES-SGD2020-04 | 6063-T6



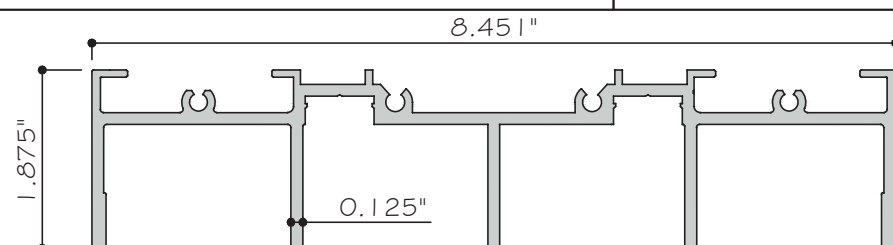
LOCK STILE FOR INSULATED
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33 ES-SGD2020-033 6063-T6

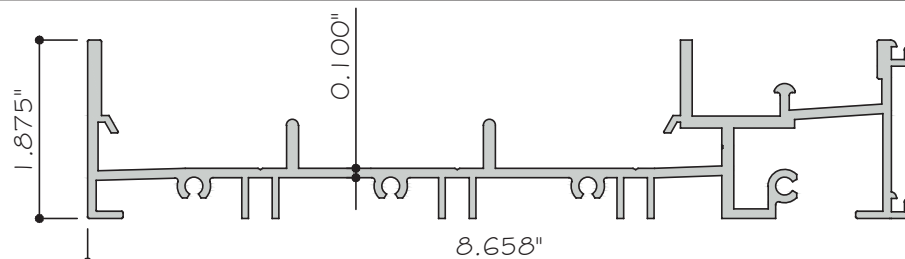


INTERLOCK FOR INSULATED
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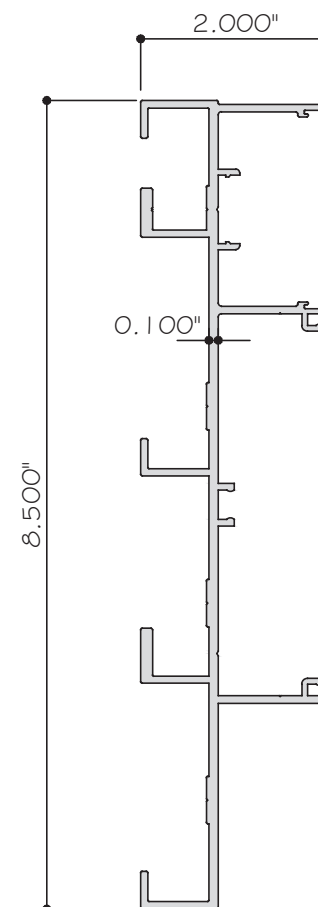
ES-SGD2020-03 | 6063-T6



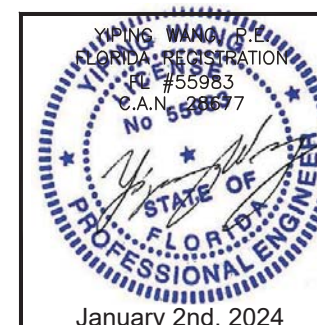
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ES-SGD2020-034 6063-T6



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



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

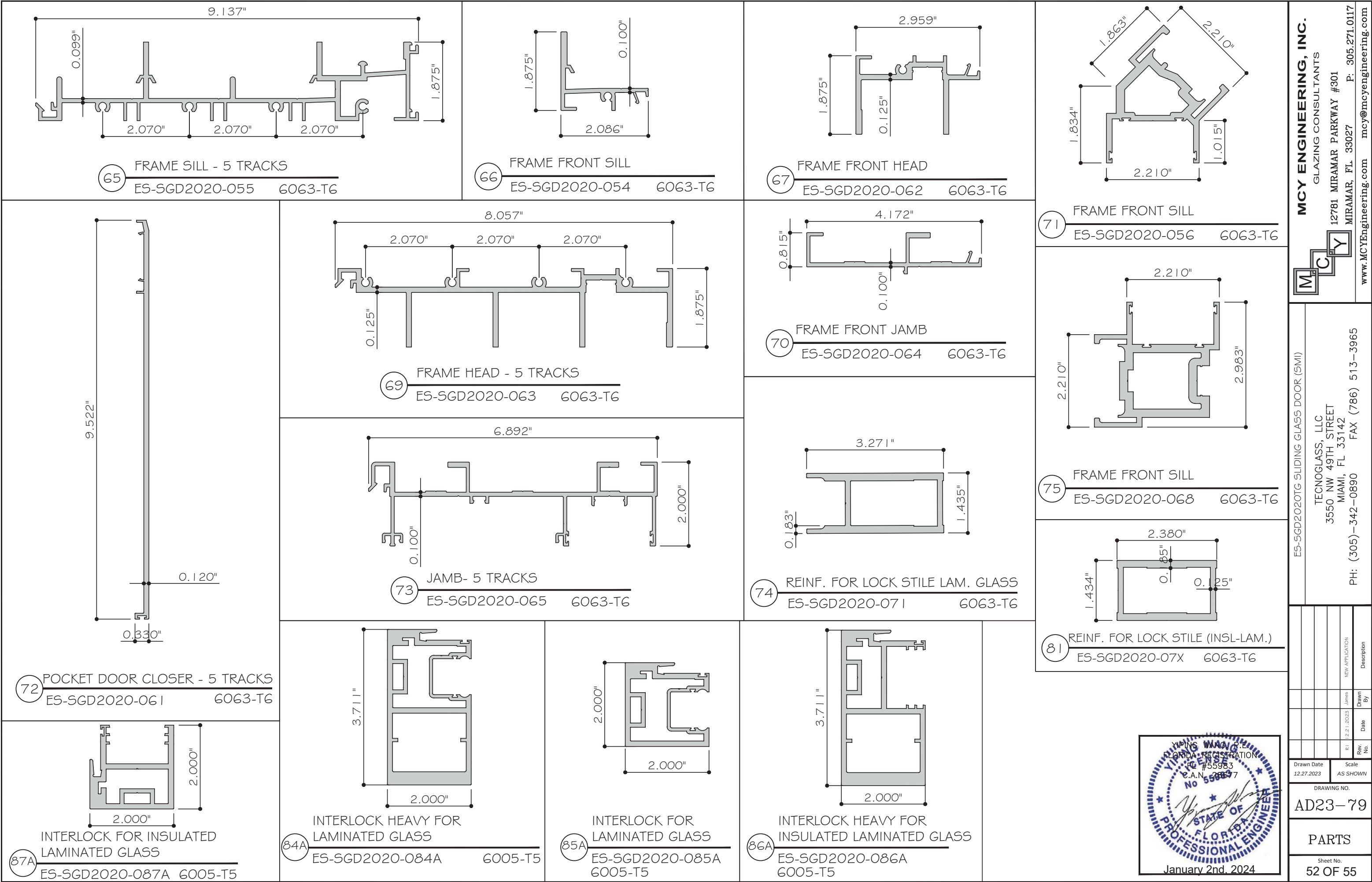


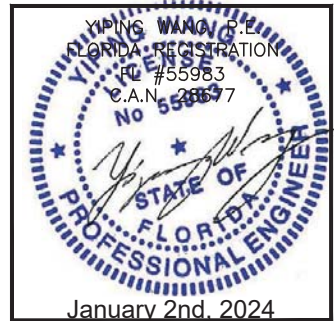
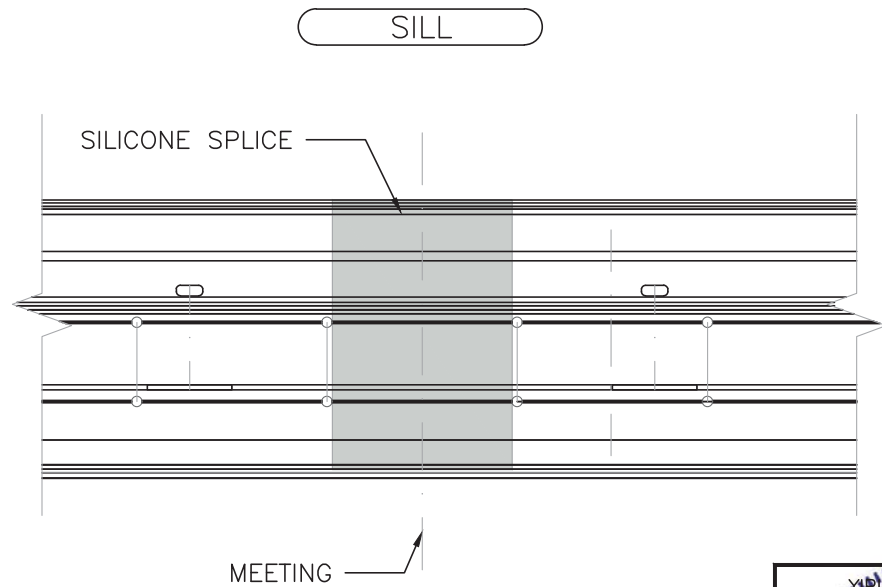
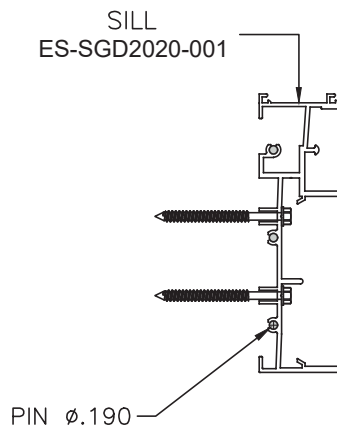
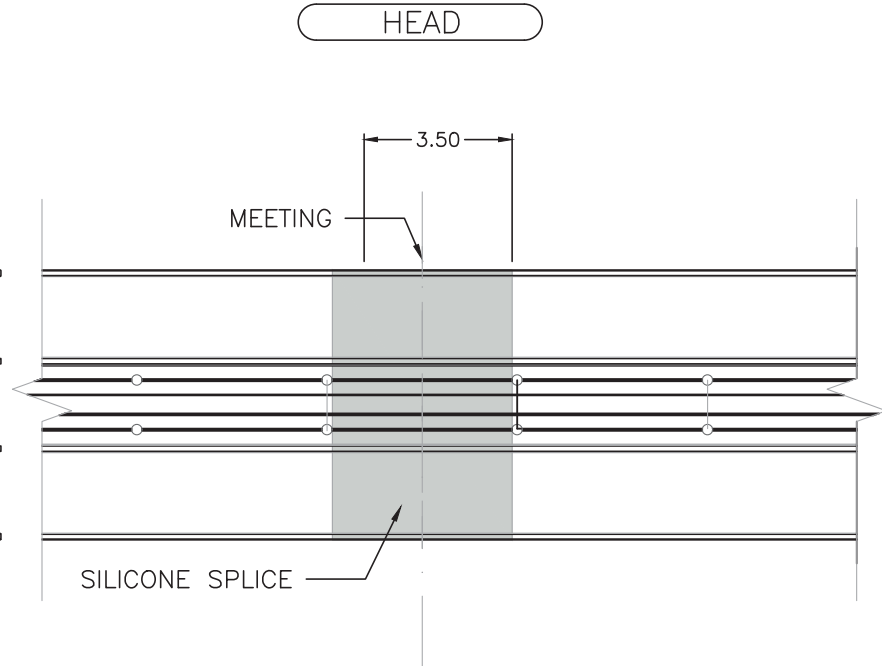
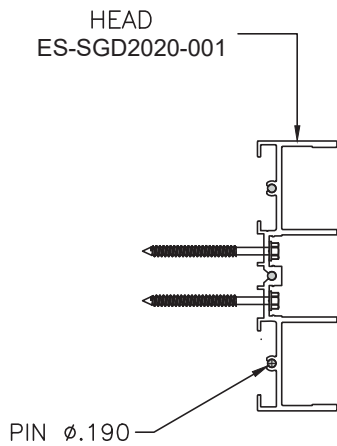
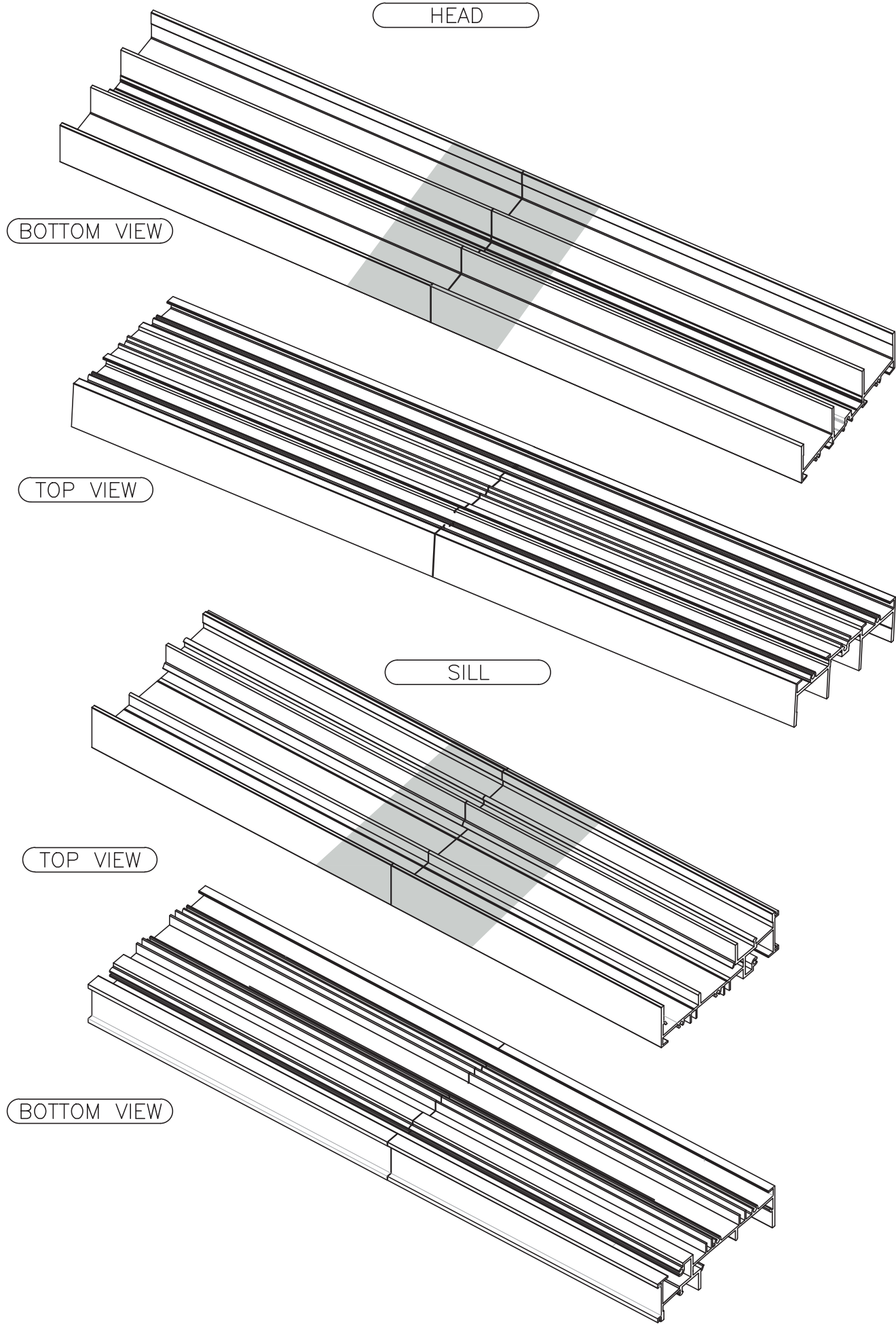
ES-SGD202TG SLIDING GLASS DOOR (SMI)

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

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[illegible]





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YOUNG WANG R.
FLORIDA REGISTRATION
No. 55983
C.A.N. 23657
January 2nd, 2024

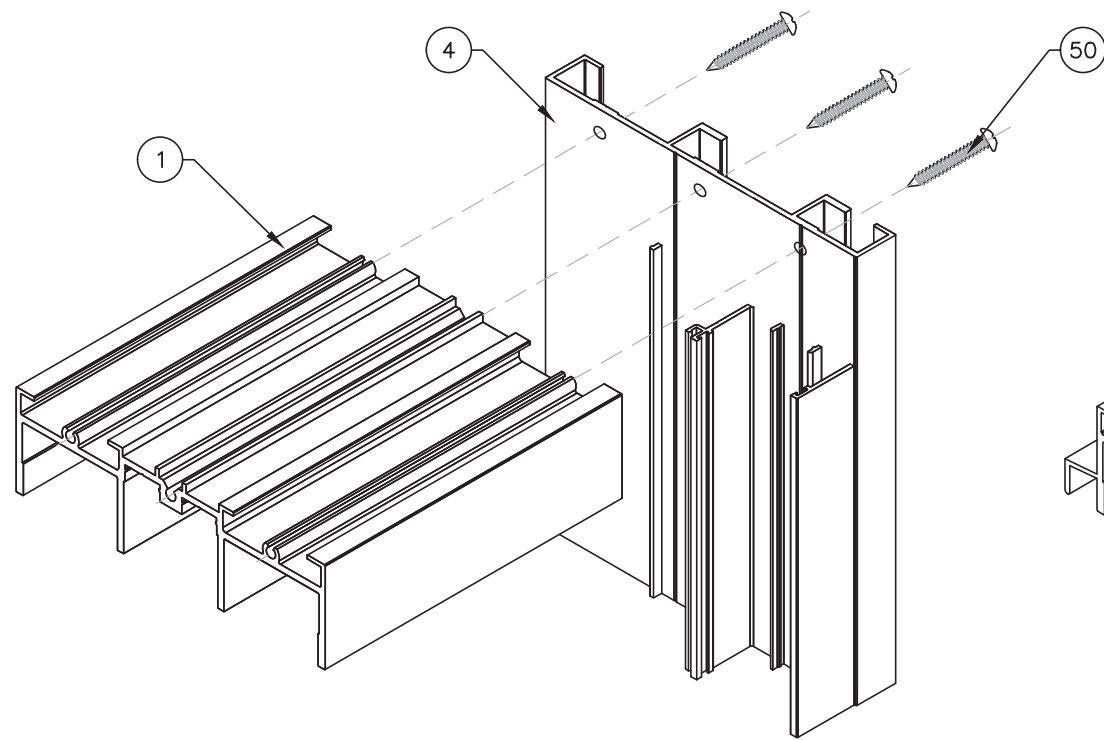
Rev.	Date	Drawn By	Description
1	12.27.2023	James	NEW APPLICATION

Drawn Date: 12.27.2023 Scale: AS SHOWN

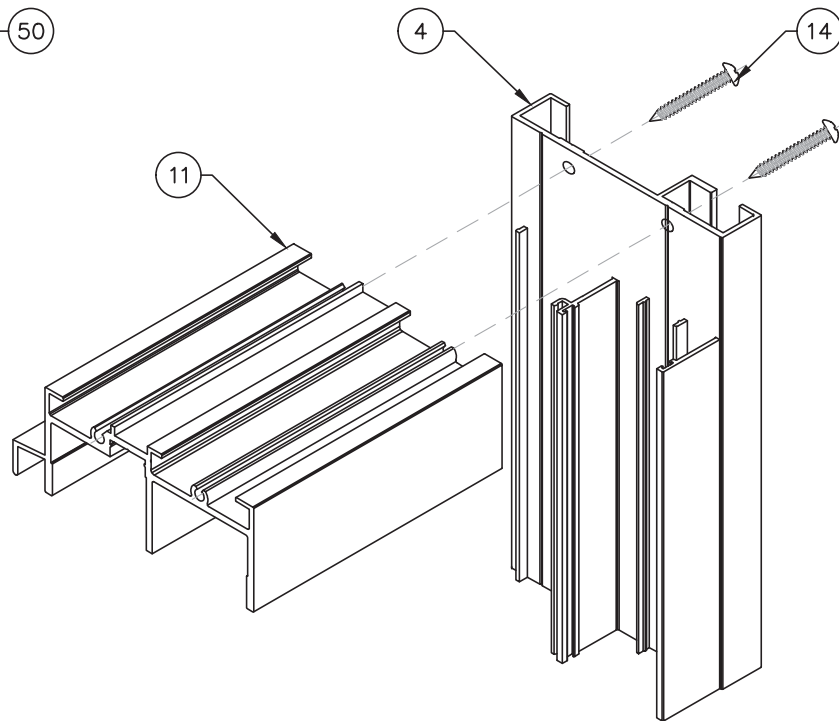
DRAWING NO. AD23-79

ISO

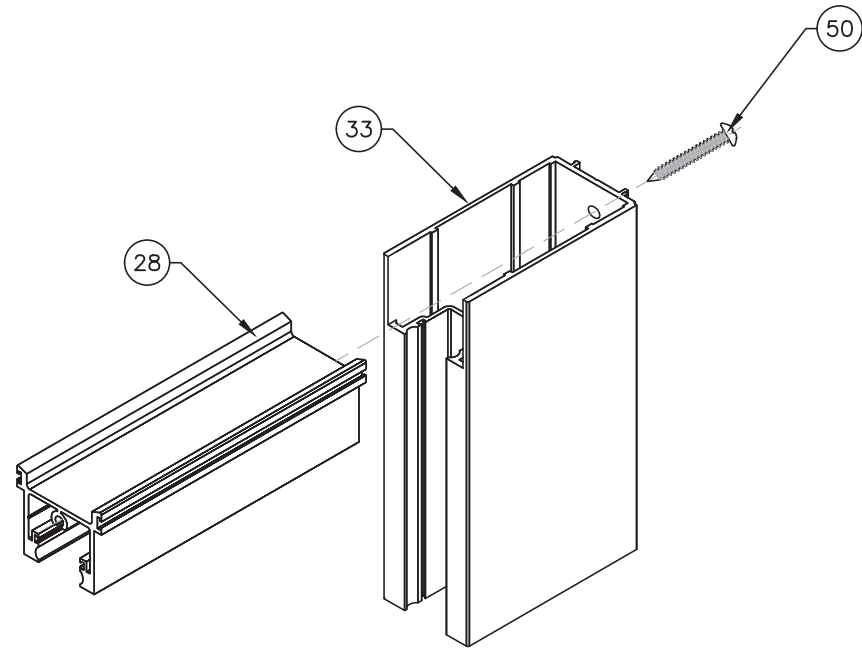
Sheet No. 54 OF 55



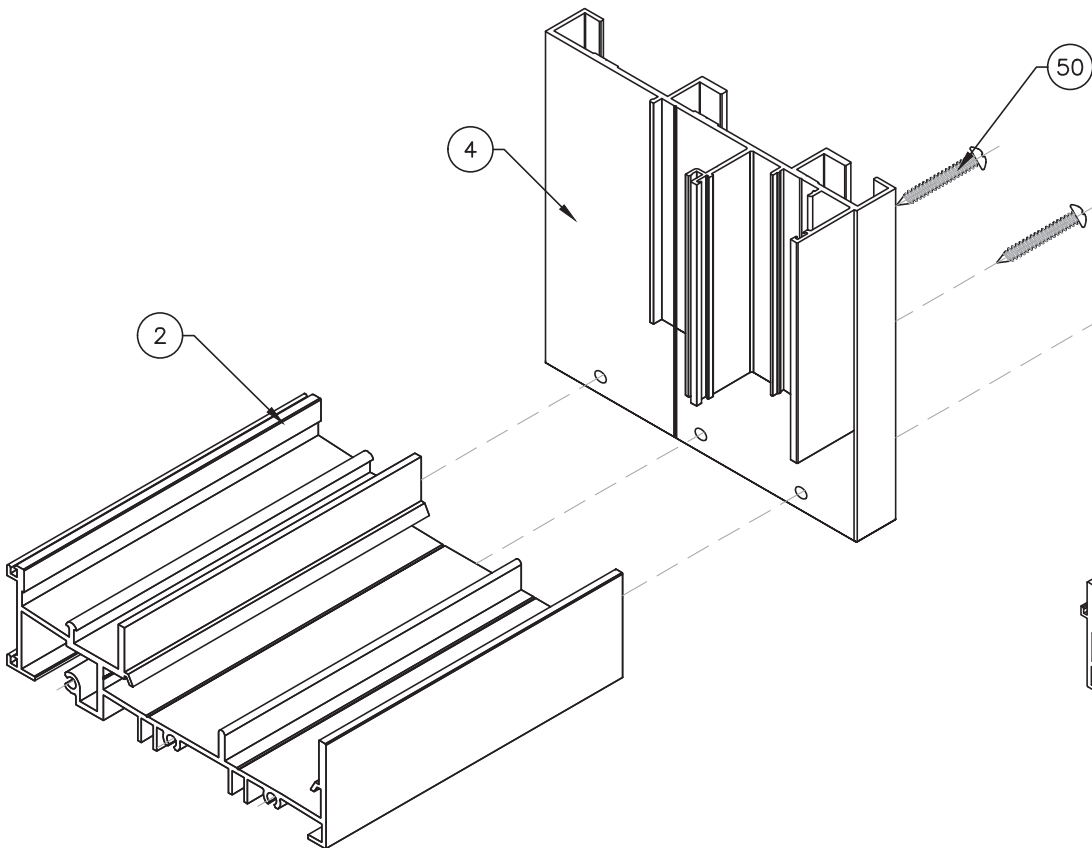
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3 TRACK SHOWN



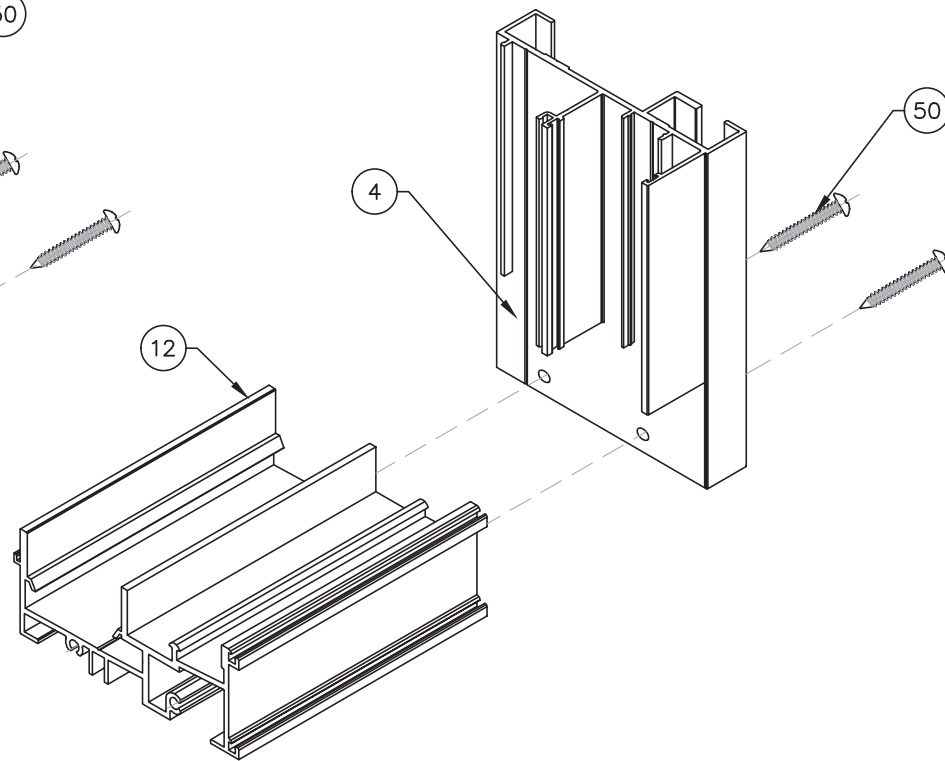
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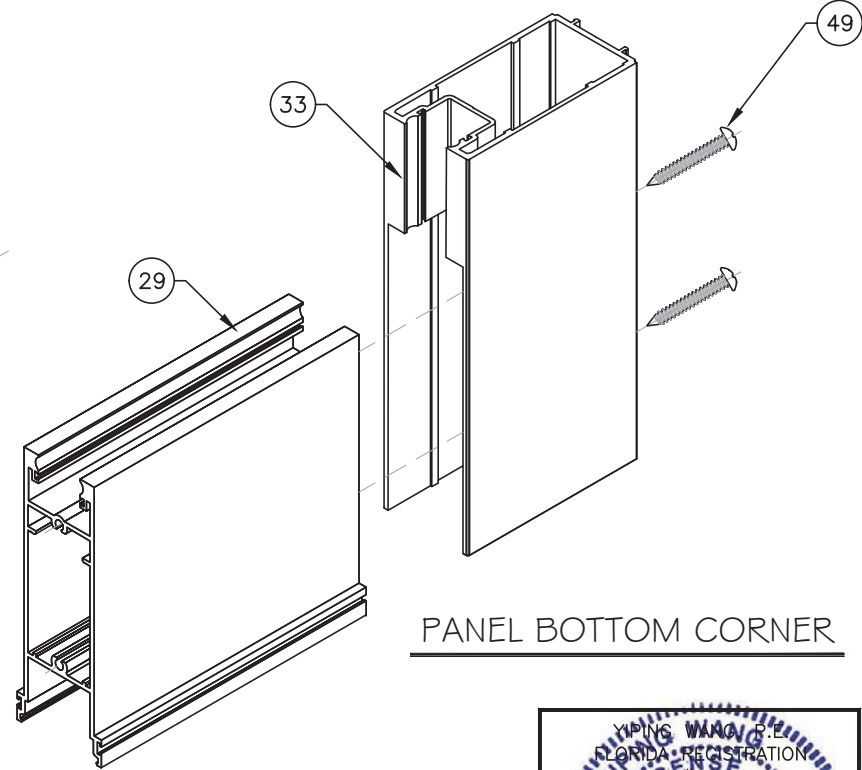
PANEL TOP CORNER



FRAME BOTTOM CORNER
3 TRACK SHOWN



FRAME BOTTOM CORNER
2 TRACK SHOWN



PANEL BOTTOM CORNER



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MCY ENGINEERING, INC.
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AD23-79			
ISO			
Sheet No.			
55 OF 55			