

SERIES 9000 ALUMINUM INSWING DOOR
LARGE MISSILE IMPACT (L.M.I.)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF 8TH EDITION 2023 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOOR IS DESIGNED TO BE USED AT LARGE MISSILE AREA. SHUTTER IS NOT REQUIRED.
- DOOR TESTED FOR IMPACT LEVEL D.
- DOORS NOT APPROVED FOR HABITABLE AREAS WHEN WATER INFILTRATION REQUIREMENTS ARE NEEDED UNLESS PROTECTED BY OVER HANG WITH RATIO:
LENGTH TO HEIGHT GREATER THAN 1.0. SEE NOTE 1 ON SHEET D1.
- 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 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- WOOD BUCKS/ 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.

-SEALANTS:

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

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE SHEET G1 FOR GLASS OPTIONS APPROVED FOR DOOR AND TRANSOM.
- STEP 3: SEE TYPICAL ELEVATIONS ON SHEET E1 & E2 FOR MAXIMUM SIZES AND DESIGN LOADS FOR SINGLE OR DOUBLE DOOR W/O TRANSOM.
- STEP 4: DOOR WITH TRANSOM SEE SHEET E3 & E4.
- STEP 5: ANCHOR OPTIONS ON SHEET A1 & A2. SEE SHEET E1 TO E4 FOR ANCHOR SPACING OR NO. OF ANCHORS REQ. & ITS CAPACITIES.
- STEP 6: THE LOWEST VALUE RESULTING FROM STEPS 2 TO 5 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM

ABBREVIATIONS AND SYMBOLS

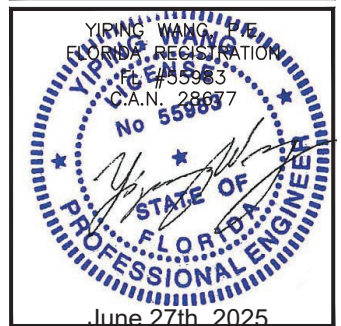
D.L.O. - DAYLITE OPENING	CL - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	G.B. - GLASS BITE
W/ - WITH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

SHEET NUMBER

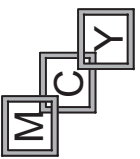
LIMITATIONS OF USE

- 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 HOWEVER 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.

FL #33082



MCY ENGINEERING, INC.
GLAZING CONSULTANTS




 12781 Miramar Pkwy, Ste. 301
 Miramar, FL 33027 P: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

SERIES 9000 INSWING DOOR - L.M.I.

ES WINDOWS, INC.
W 72 AVE. BAY #4 MIAMI, FL

5220 NW 72 AVE. BAY #4 MIAMI, FL 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

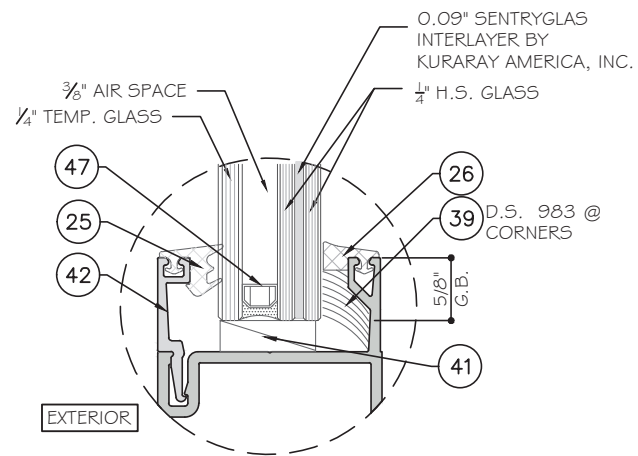
R5	06/27/2025	James	REVISION
Rev. No.	Date	Drawn By	Description

Drawn Date	Scale
06.27.2025	AS SHOWN

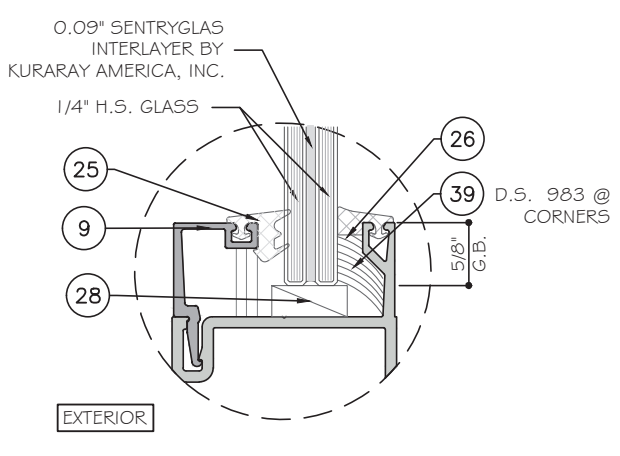
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AD20-28

COVER

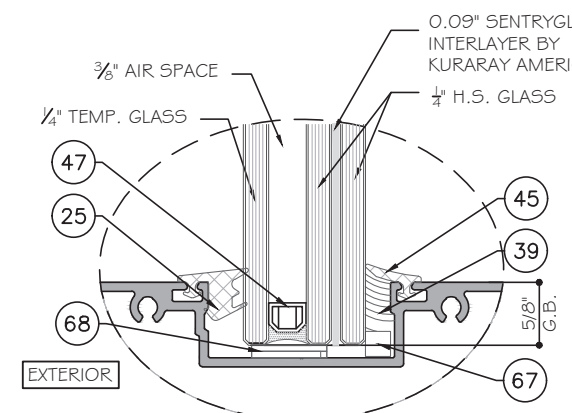
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 OF 17



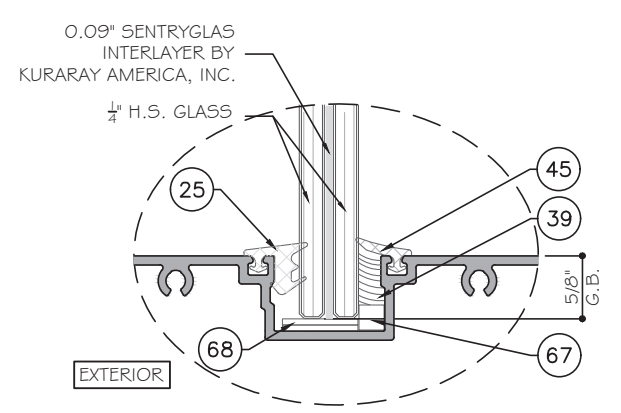
G1 3/16" INSULATED LAMINATED GLASS
GLASS GLAZING DETAIL DOOR
LEAF (ACT/INACT)



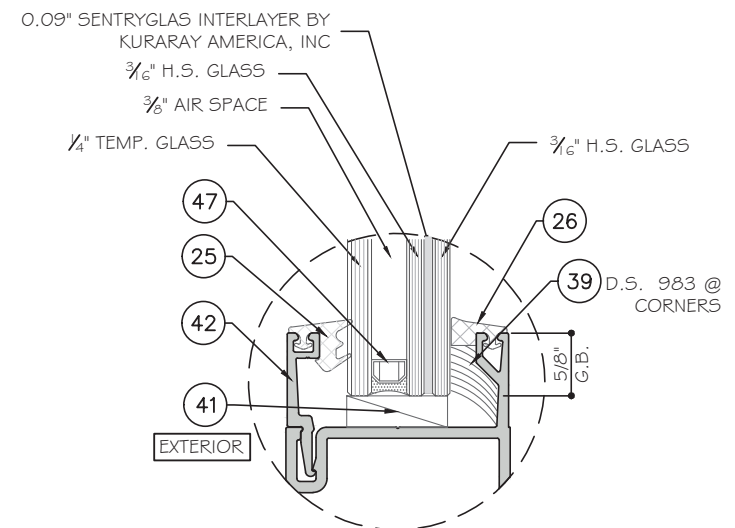
G3 9/16" LAMINATED GLASS
GLASS GLAZING DETAIL DOOR
LEAF (ACT/INACT)



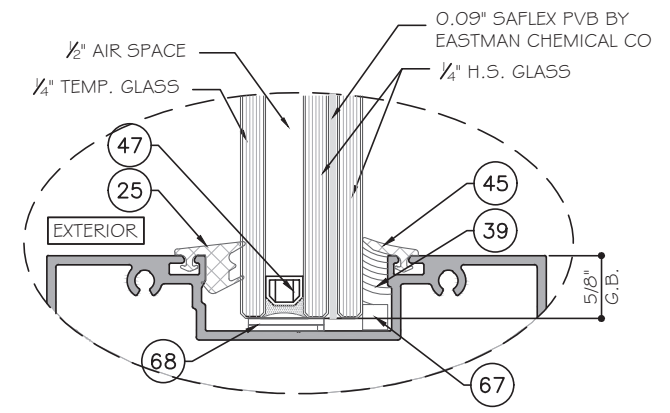
G1 3/16" INSULATED LAMINATED GLASS
GLASS GLAZING DETAIL
AT TRANSOM



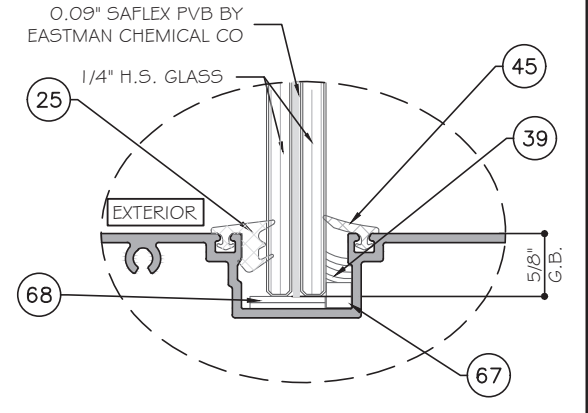
G3 9/16" LAMINATED GLASS
GLASS GLAZING DETAIL
AT TRANSOM



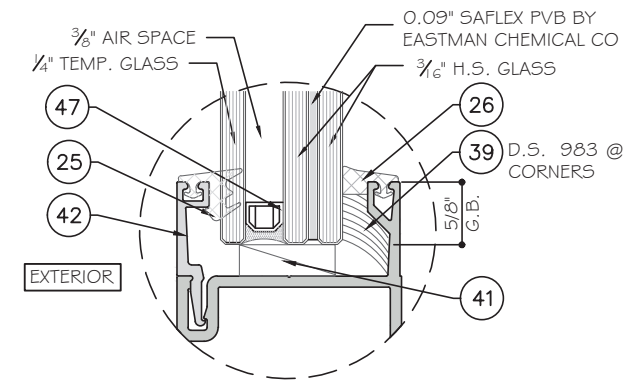
G4 1/8" INSULATED LAMINATED GLASS
GLASS GLAZING DETAIL DOOR
LEAF (ACT/INACT)



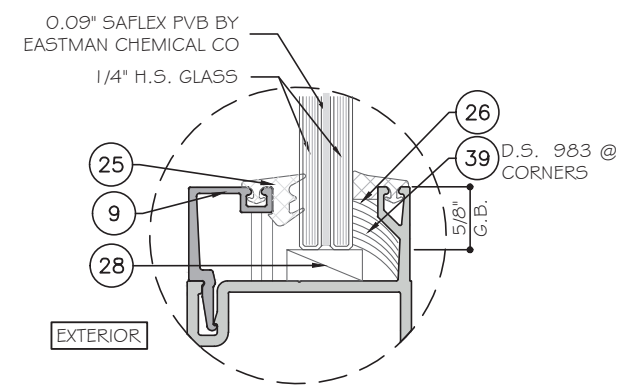
G7 5/16" INSULATED LAMINATED GLASS
GLASS GLAZING DETAIL
AT TRANSOM



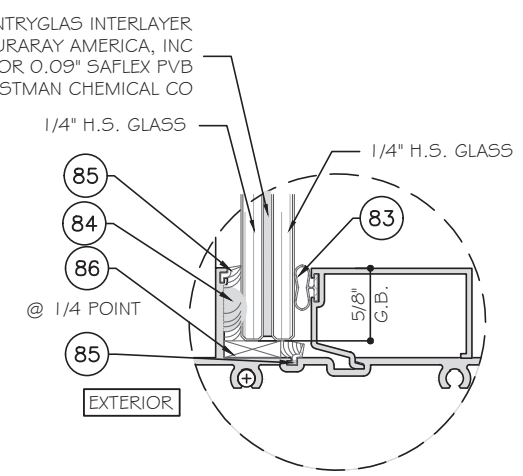
G5 9/16" LAMINATED GLASS
GLASS GLAZING DETAIL
AT TRANSOM



G6 1/8" INSULATED LAMINATED GLASS
GLASS GLAZING DETAIL DOOR
LEAF (ACT/INACT)



G5 9/16" LAMINATED GLASS
GLASS GLAZING DETAIL DOOR
LEAF (ACT/INACT)



G3 G5 9/16" LAMINATED GLASS
GLASS GLAZING DETAIL
AT ES-8000 TRANSOM

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

SETTING BLOCK:
TWO BLOCK PER DOOR LITE
TWO BLOCK PER TRANSOM LITE

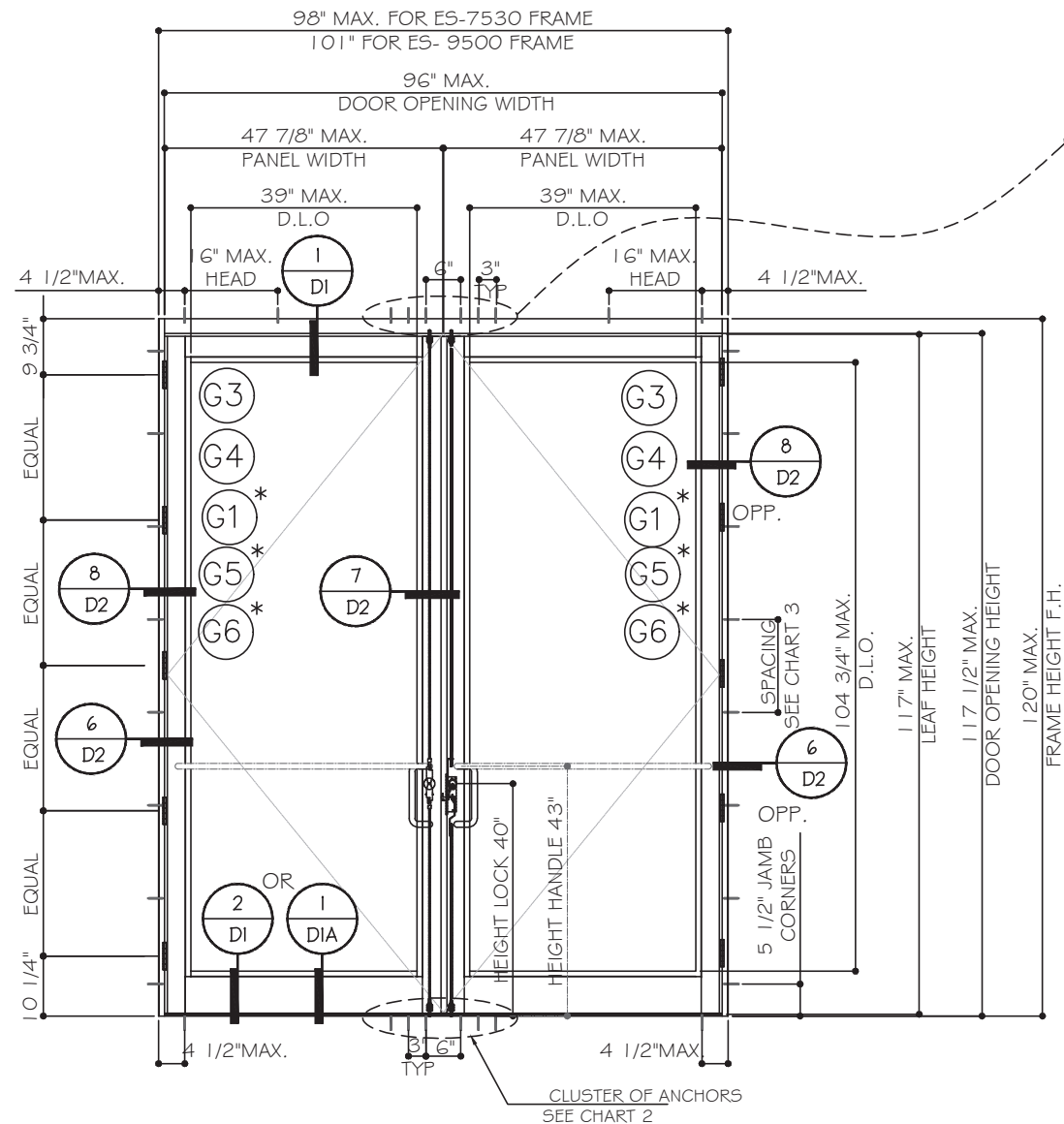
47 SPACER:
3/8" AIR SPACE WITH 'HELIMA' LOW
PROFILE ALUMINUM SPACER BY
'LINGERMANN GMBH'.
AROUND THE PERIMETER OF GLASS.

FL #33082

YIPING WANG
FLORIDA REGISTRATION
No 55983
C.A.N. 28677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

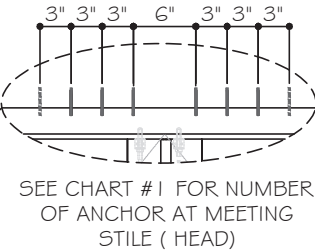
June 27th, 2025



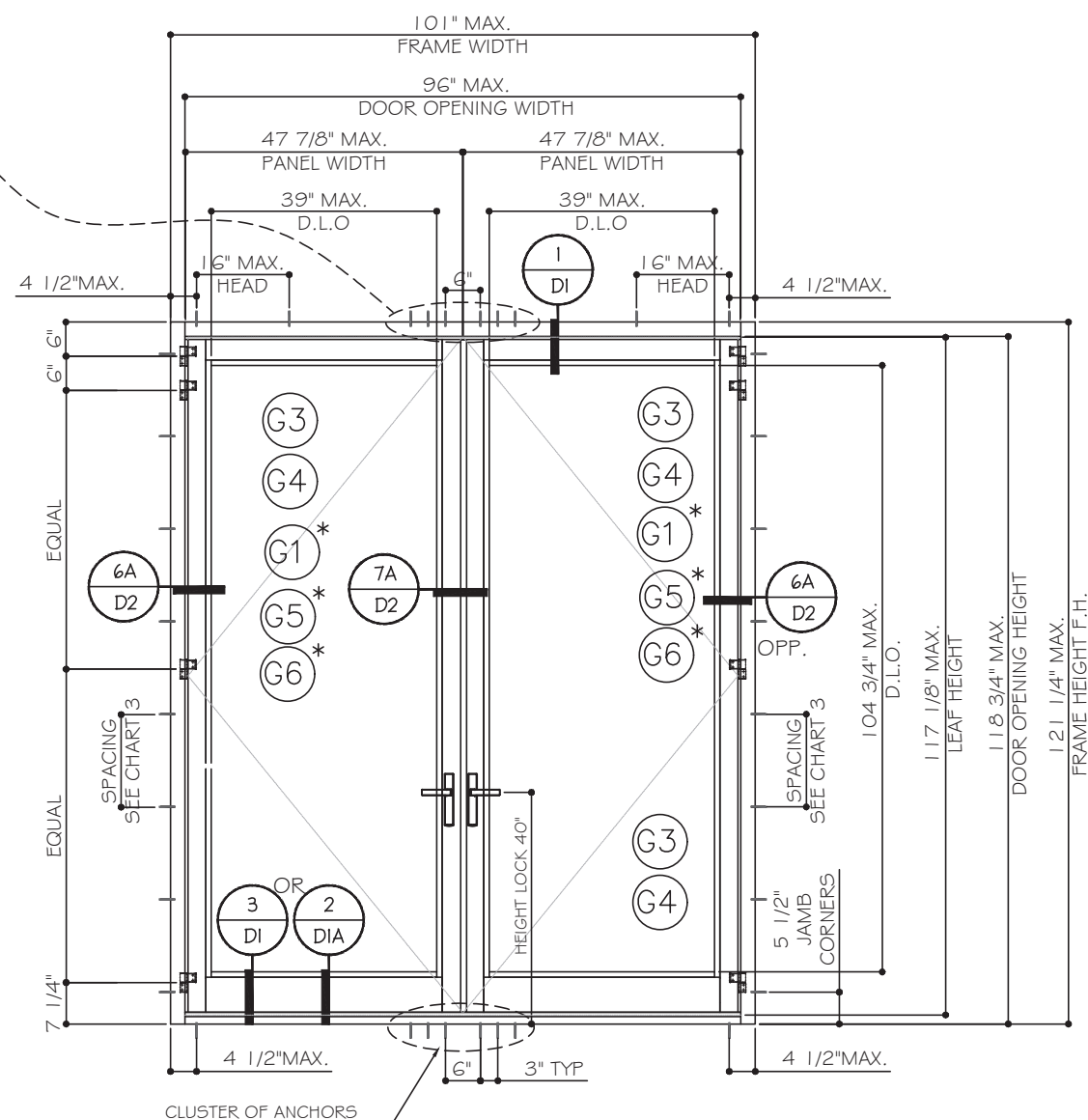
TYPICAL EXTERIOR ELEVATION (XX)

STANDARD THRESHOLD
SEE SHEET H I FOR LOCKS OPTION

DESIGN LOAD:
+90 PSF
-90 PSF



SEE CHART #1 FOR NUMBER
OF ANCHOR AT MEETING
STILE (HEAD)



TYPICAL EXTERIOR ELEVATION (XX)

W/ E5-9500 JAMB &
HIGH THRESHOLD
SEE SHEET H I FOR LOCKS OPTION

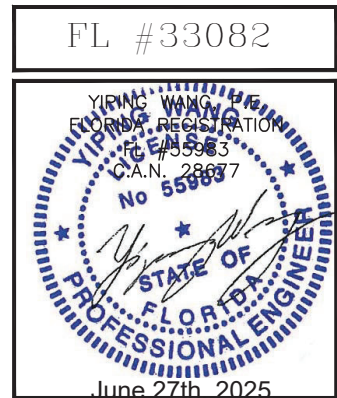
DESIGN LOAD:
+90 PSF
-90 PSF

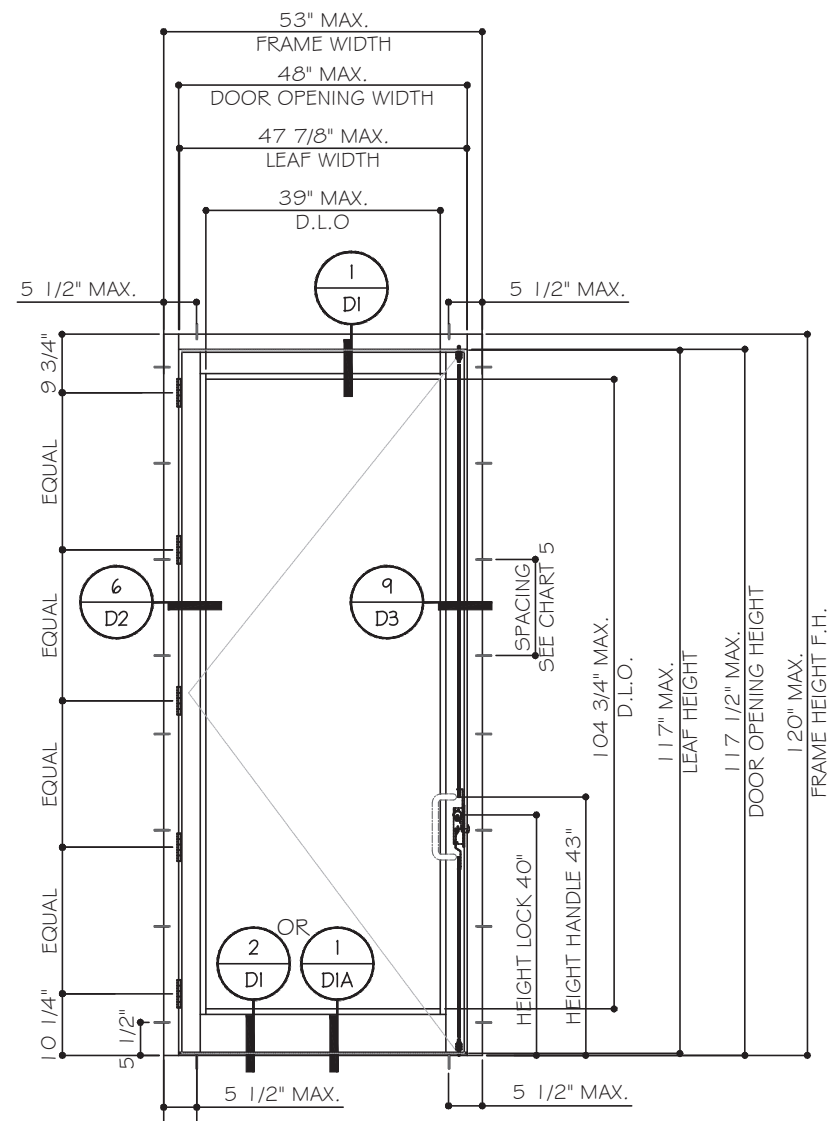
CHART # 1:				DOUBLE DOOR (XX) HEAD ANCHOR CAPACITIES (psf)						
DOOR OPEN'G (PANEL) WIDTH	DOOR OPENING HEIGHT	DOOR FRAME WIDTH	DOOR FRAME Height	1/4" SHIM	3/8" SHIM		1/2" SHIM			
				CLUSTER OF	CLUSTER OF		CLUSTER OF			
				6	6	7	6	7	8	6
				ANCHOR B & D	ANCHOR A & B	ANCHOR A & B	ANCHOR A & B	ANCHOR A & B	ANCHOR A & B	ANCHOR C
72	108	77	110.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84	108	89	110.5	90.0	90.0	90.0	83.4	90.0	90.0	90.0
96	108	101	110.5	90.0	83.4	90.0	73.0	85.1	90.0	90.0
72	117.5	77	120	90.0	90.0	90.0	89.6	90.0	90.0	90.0
84	117.5	89	120	90.0	87.8	90.0	76.8	89.6	90.0	90.0
96	117.5	101	120	90.0	76.8	89.6	67.2	78.4	89.6	90.0

CHART 3:		DOUBLE DOOR JAMB ANCHOR CAPACITIES (psf)						
DOOR PANEL WIDTH	DOOR FRAME WIDTH	1/4" SHIM		3/8" SHIM		1/2" SHIM		
		16" O.C.		16" O.C.	8" O.C.	16" O.C.		8" O.C.
		ANCHOR B	ANCHOR D	ANCHOR A,B & B1	ANCHOR A,B & B1	ANCHOR A,B & B1	ANCHOR C	ANCHOR A,B & B1
72	77	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84	89	90.0	90.0	90.0	90.0	85.8	90.0	90.0
96	101	90.0	90.0	84.1	90.0	76.1	90.0	90.0

* DOOR PANEL HEIGHT LIMITED TO 108" WHEN USE GLAZING TYPE (G1) (G5) (G6).

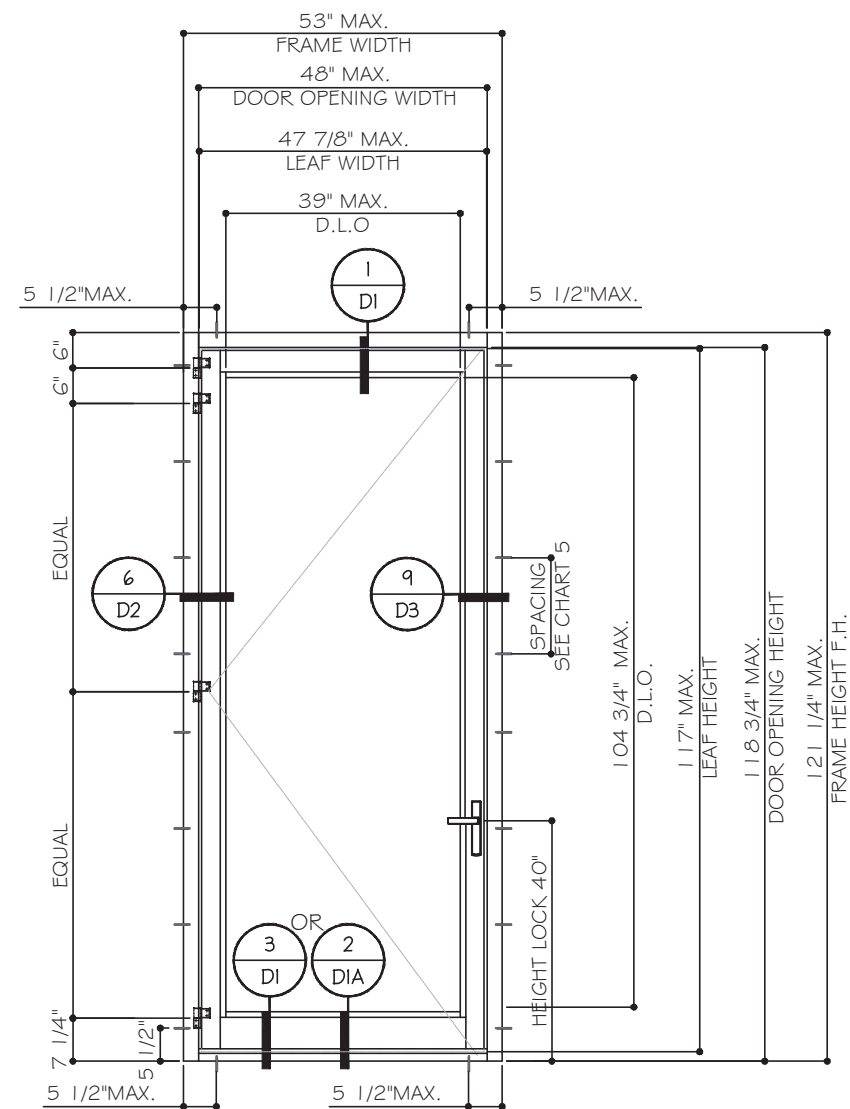
CHART # 2:				DOUBLE DOOR (XX) SILL ANCHOR CAPACITIES (psf)							
DOOR OPEN'G (PANEL) WIDTH	DOOR OPENING HEIGHT	DOOR FRAME WIDTH	DOOR FRAME Height	1/4" SHIM	3/8" SHIM		1/2" SHIM				
				CLUSTER OF	CLUSTER OF		CLUSTER OF				
				6	6	7	6	7	8	6	
				ANCHOR B	ANCHOR B	ANCHOR B	ANCHOR B	ANCHOR B	ANCHOR B	ANCHOR B	
72	108	77	110.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
84	108	89	110.5	90.0	90.0	90.0	83.4	90.0	90.0	90.0	
96	108	101	110.5	90.0	90.0	90.0	73.0	85.1	90.0	90.0	
72	117.5	77	120	90.0	90.0	90.0	89.6	90.0	90.0	90.0	
84	117.5	89	120	90.0	90.0	90.0	76.8	89.6	90.0	90.0	
96	117.5	101	120	90.0	84.9	90.0	67.2	78.4	89.6	90.0	





TYPICAL EXTERIOR ELEVATION (X)

W/ ES-9500 JAMB &
STANDARD THRESHOLD
SEE SHEET H1 FOR LOCKS OPTION

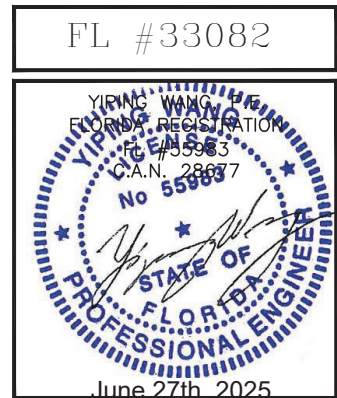


TYPICAL EXTERIOR ELEVATION (X)

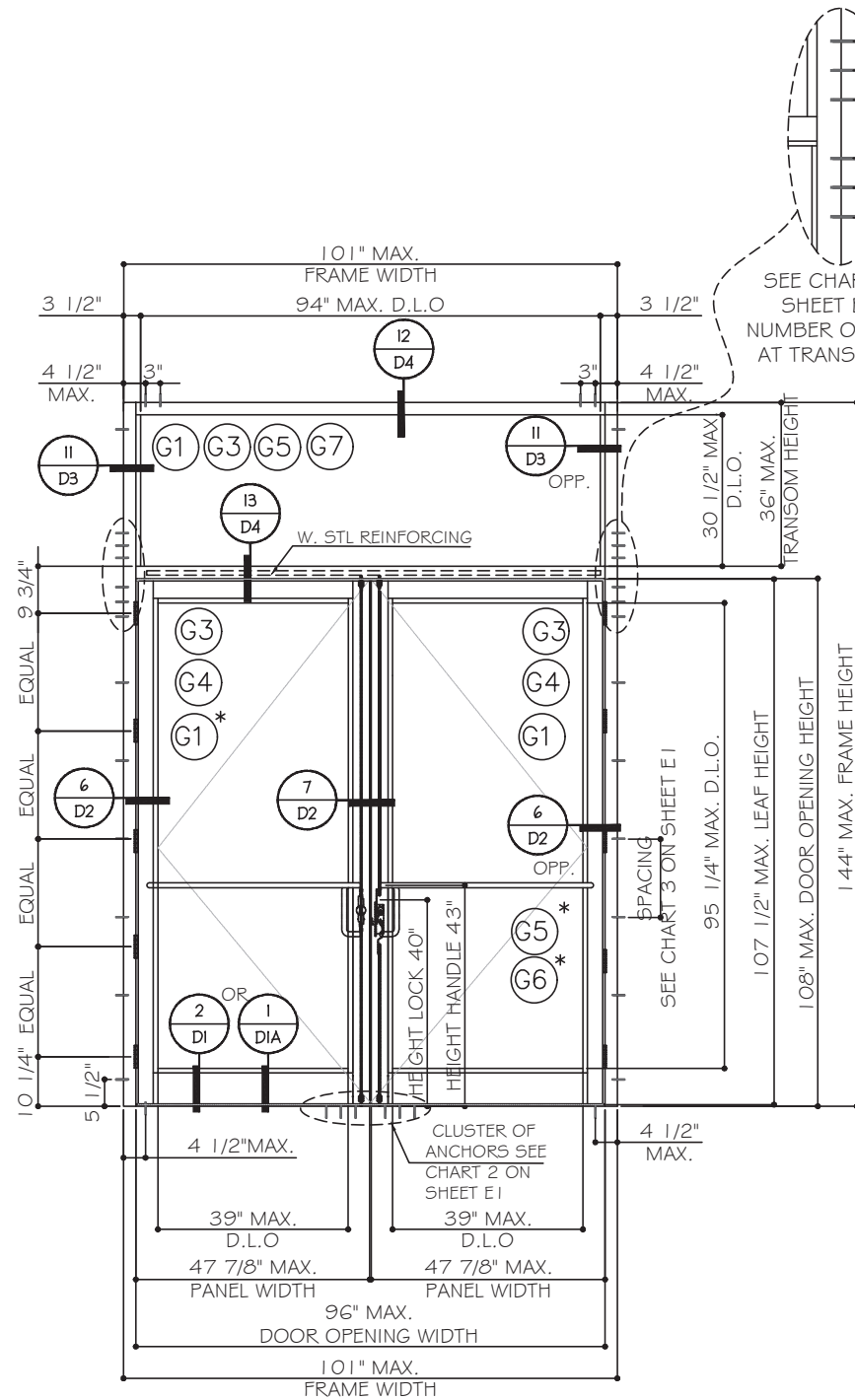
W/ ES-9500 JAMB &
HIGH THRESHOLD
SEE SHEET H1 FOR LOCKS OPTION

CHART #4:		SINGLE LEAF DOOR CAPACITIES (psf)					
DOOR PANEL WIDTH	DOOR FRAME HEIGHT	GLASS TYPE G1 G5 G6		GLASS TYPE G4		GLASS TYPE G3	
48	108	+90	-90	+90	-90	+90	-120.0
48	120	-	-	+90	-90	+90	-120.0

CHART #5:		SINGLE LEAF DOOR JAMB ANCHOR CAPACITIES (psf)						
DOOR PANEL WIDTH	DOOR FRAME WIDTH	1/4" SHIM		3/8" SHIM		1/2" SHIM		
		16" O.C.		16" O.C.	8" O.C.	16" O.C.		8" O.C.
		ANCHOR B	ANCHOR D	ANCHOR A,B & B1	ANCHOR A,B & B1	ANCHOR A,B & B1	ANCHOR C	ANCHOR A,B & B1
36	41	120.0	120.0	109.8	120.0	98.3	120.0	120.0
42	47	120.0	120.0	95.7	120.0	85.8	120.0	120.0
48	53	120.0	120.0	84.9	120.0	76.1	120.0	120.0



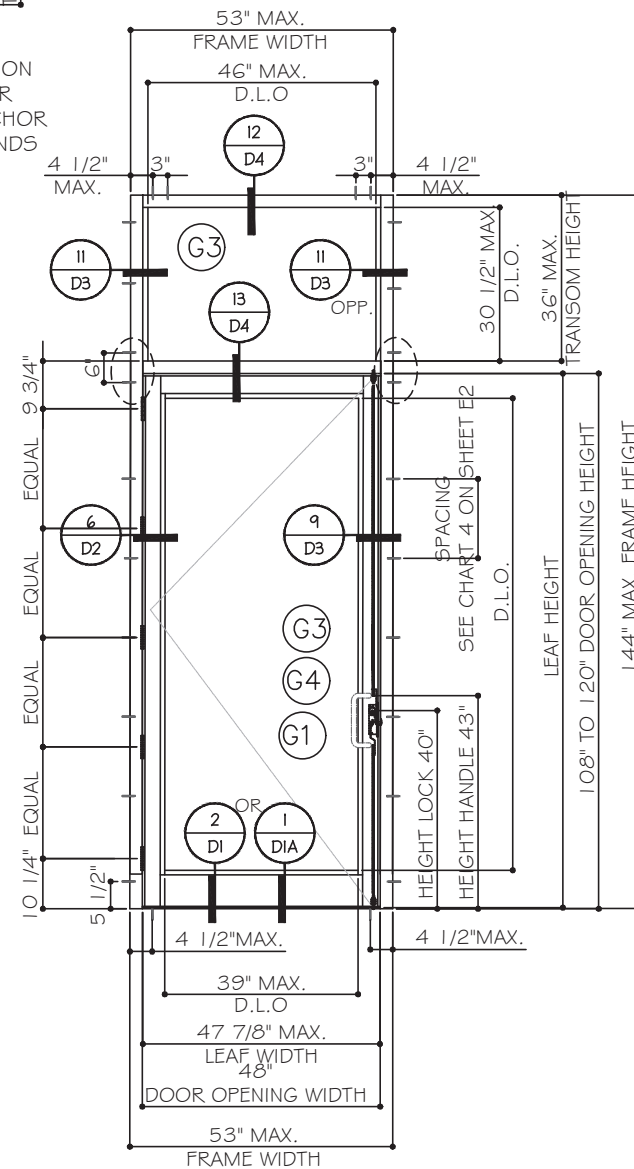
Drawn Date	Scale
06.27.2025	AS SHOWN
DRAWING NO.	
AD20-28	
E2	
Sheet No.	
4 OF 17	



TYPICAL EXTERIOR ELEVATION (O/XX)

W/ ES-8000 FRAME
STANDARD THRESHOLD
SEE SHEET H1 FOR LOCKS OPTION

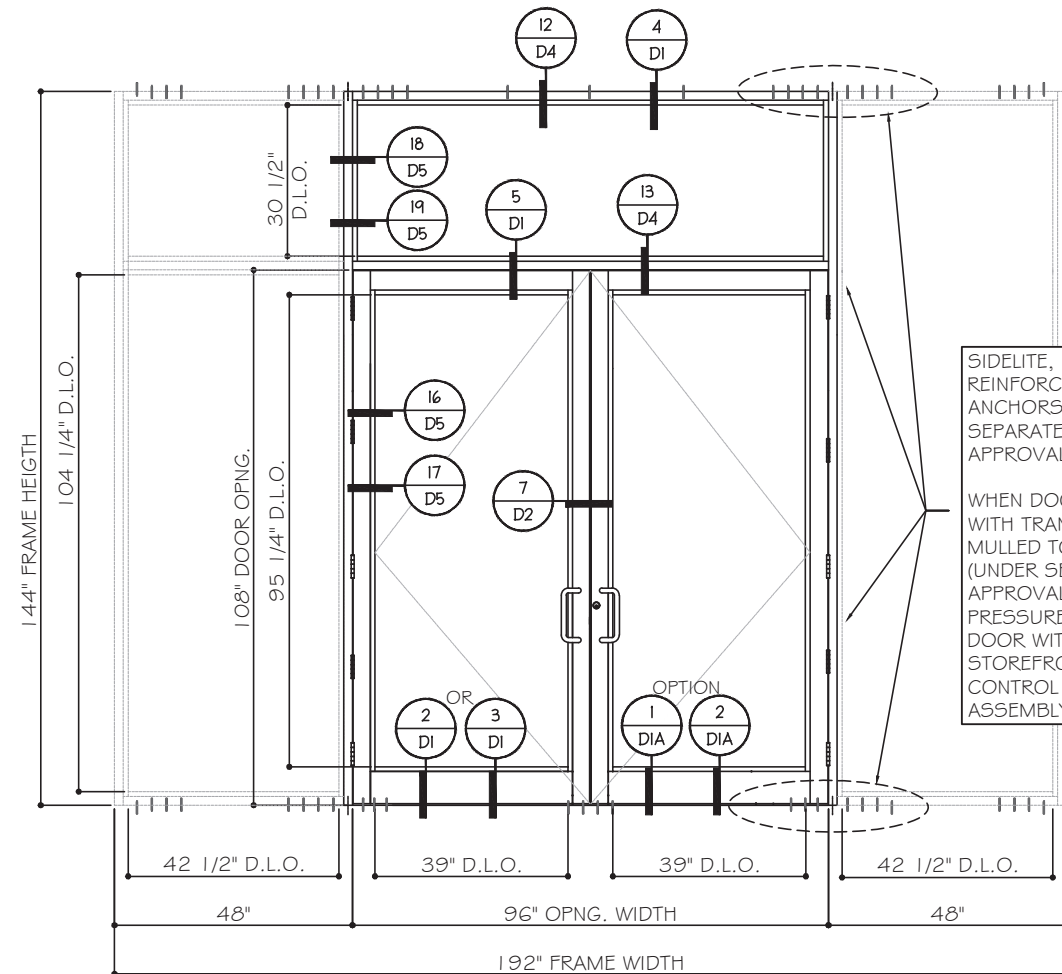
TRANSOM MULLION CAPACITY FOR LAM GLASS - PSF FOR O/XX DOOR			
FRAME HEIGHT (IN)	DOOR WIDTH (IN)	DOOR HEIGHT (IN)	WITH REINFORCEMENT (+/-) PSF
144	96	108	90.0



TYPICAL EXTERIOR ELEVATION (O/X)

W/ ES-9500 JAMB &
STANDARD THRESHOLD
SEE SHEET H1 FOR LOCKS OPTION

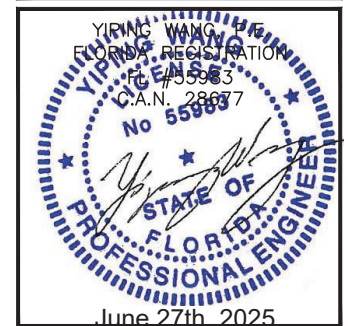
TRANSOM MULLION CAPACITY FOR LAM GLASS - PSF FOR O/XX DOOR			
FRAME HEIGHT (IN)	DOOR WIDTH (IN)	DOOR HEIGHT (IN)	WITHOUT REINFORCEMENT (+/-) PSF
144	53	108	90.0



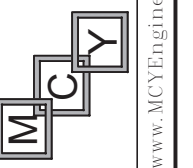
SIDELITE, MULLION
REINFORCEMENT AND
ANCHORS REFER TO
SEPARATE PRODUCT
APPROVAL.

WHEN DOORS OR DOOR
WITH TRANSOM ARE
MULLED TO STOREFRONT
(UNDER SEPARATE
APPROVAL) LOWER DESIGN
PRESSURE FROM DOOR,
DOOR WITH TRANSOM OR
STOREFRONT SHALL
CONTROL FOR THE ENTIRE
ASSEMBLY.

FL #33082



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GLAZING CONSULTANTS



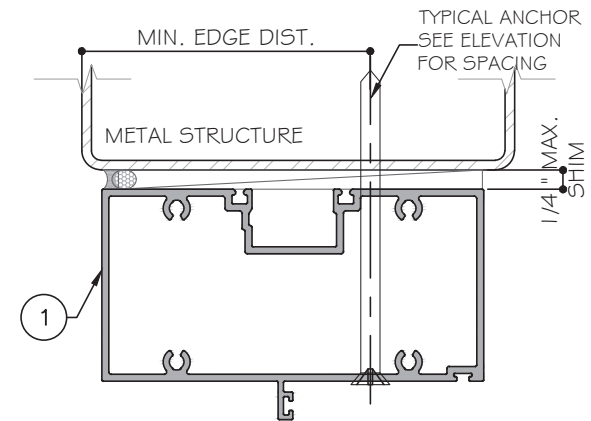
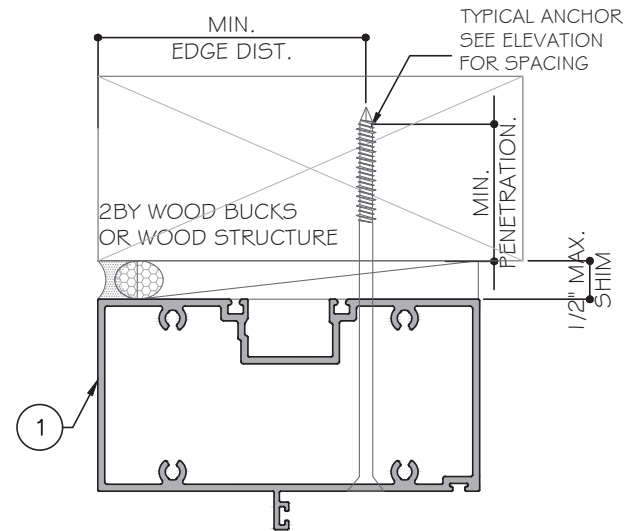
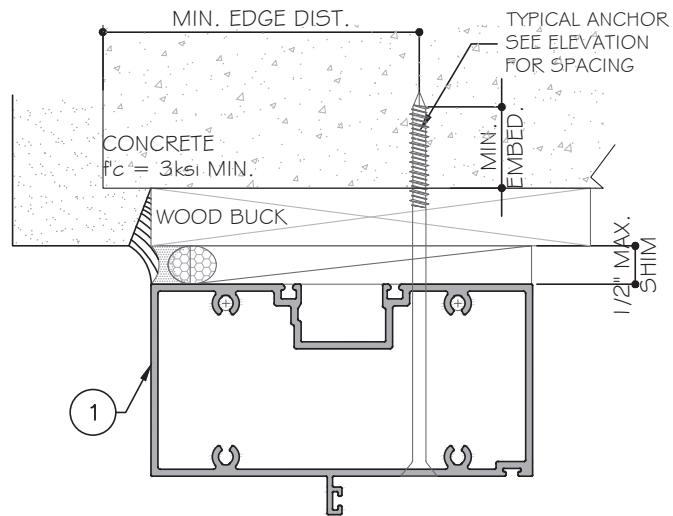
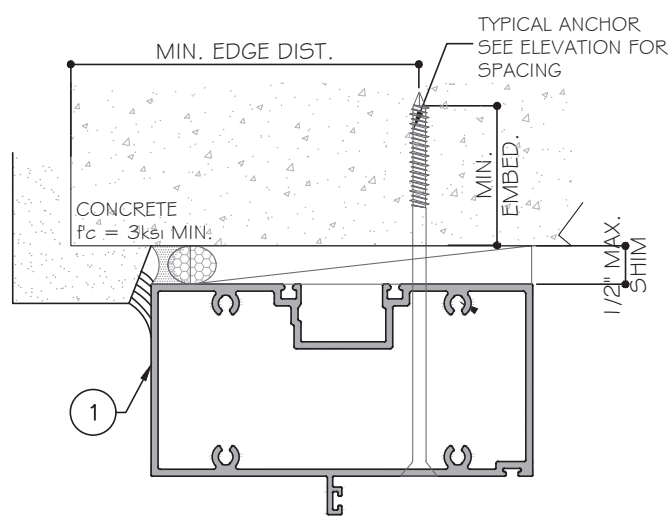
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Miramar, FL 33027 P: 305.588.5224
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Rev. No.	Date	Drawn By	Description
R5	06.27.2025	James	REV/ISON
Drawn Date 06.27.2025 Scale AS SHOWN			
Drawing No. AD20-28			
Sheet No. 6 OF 17			



TYPICAL ANCHOR TYPES:

TYPE "A": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$) INTO 2X WOOD BUCK OR WOOD STRUCTURE WITH 1 1/2" MIN. PENETRATION. (HEAD/ JAMB)

THRU 1X WOOD BUCK INTO CONCRETE WITH 1 3/4" MIN. EMBED (HEAD/ JAMB)

THRU 1X WOOD BUCK INTO HOLLOW BLOCK WITH 1 1/4" MIN. EMBED OR INTO GROUT FILLED BLOCK WITH 1 3/4" MIN. EMBED. (JAMB ONLY)

TYPE "B": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$) 1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ JAMB/ SILL)

TYPE "B1": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$) 1 1/4" MIN. EMBED INTO HOLLOW BLOCK (6" MIN O.C.) (JAMB ONLY)

1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK (4" MIN O.C.) (JAMB ONLY)

TYPE "C": 5/16" DIA. ULTRACON BY DEWALT ($F_u = 177 \text{ KSI}$, $F_y = 155 \text{ KSI}$) 1 3/4" MIN. EMBED INTO CONCRETE. (HEAD/ JAMB/ SILL)

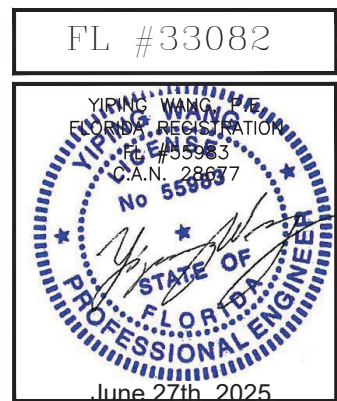
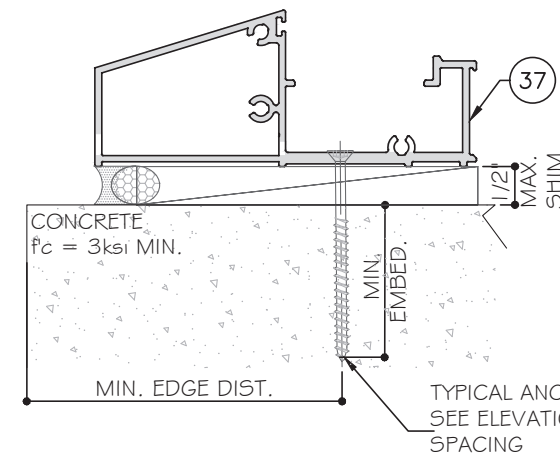
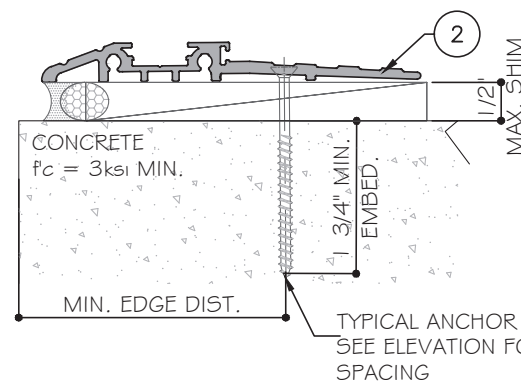
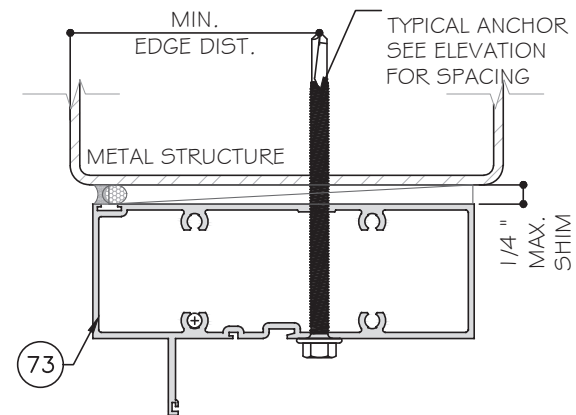
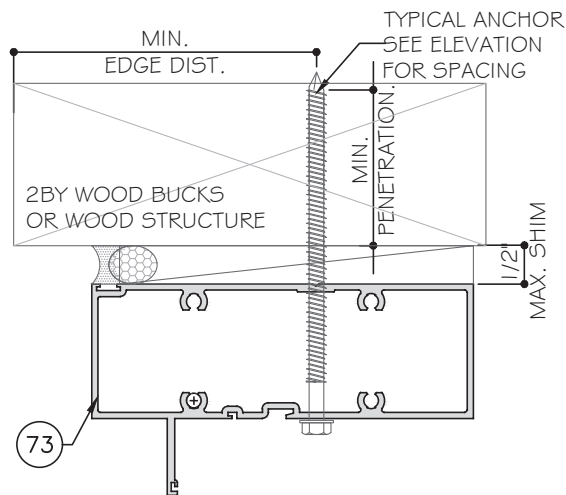
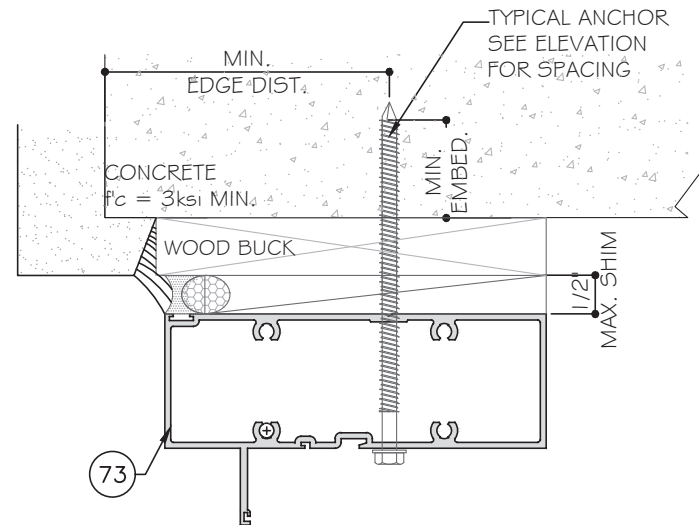
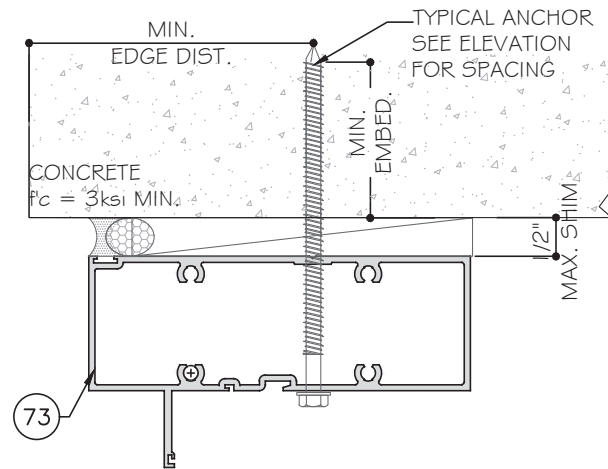
TYPE "D": 1/4" SMS OR TEKS (GRADE 5) ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$) INTO METAL STRUCTURE OR FLORIDA APPROVED MULLION. (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE. ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (HEAD/ JAMB) STEEL: 1/8" THK. MIN. ($F_y = 36 \text{ ksi}$ MIN.) (HEAD/ JAMB) (STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.)

ANCHOR EDGED DISTANCE:
 INTO CONCRETE & MASONRY = 2 1/2" MIN.
 INTO WOOD STRUCTURE = 1 1/4" MIN.
 INTO METAL = 3/4"

CONCRETE AT HEAD, SILL OR JAMB $f'_c = 3000 \text{ PSI}$ MIN.
 C-90 HOLLOW / FILLED BLOCK AT JAMB $f'_m = 2000 \text{ PSI}$ MIN.
 WOOD SG = 0.55 MIN.

PRIMARY SEALANT:
 SILICONE
 DOWSIL 791
 GE 2000

NOTE: METAL STRUCTURE AND WOOD BUCK OR WOOD STRUCTURES BY OTHERS TO BE DESIGNED AND ANCHORED PROPERLY TO TRANSFER LOAD FROM GLAZING SYSTEM TO BUILDING STRUCTURE.



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 Miramar Pkwy, Ste. 301

Miramar, FL 33027

P: 305.588.5224

www.MCYEngineering.com

SERIES 9000 INSWING DOOR - L.M.I.

ES WINDOWS, INC

5220 NW 72 AVE. BAY #4 MIAMI, FL 33166

TEL. (305) 624-7775 FAX. (305) 624-7777

Rev. No.	Date	Drawn By	Description
R5	06.27.2025	James	REV/ISON
Dashed Date			
Scale			
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DRAWING NO.			
AD20-28			
A1			
Sheet No.			
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TYPICAL ANCHOR TYPES:

- TYPE "A": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
INTO 2X WOOD BUCK OR WOOD STRUCTURE
WITH 1 1/2" MIN.PENETRATION. (HEAD/ JAMB)

THRU 1X WOOD BUCK INTO CONCRETE WITH 1 3/4 " MIN. EMBED (HEAD/ JAMB)

THRU 1X WOOD BUCK INTO HOLLOW BLOCK WITH 1 1/4" MIN. EMBED
OR INTO GROUT FILLED BLOCK WITH 1 3/4" MIN. EMBED. (JAMB ONLY)
- TYPE "B": 1/4" DIA. ULTRACON+BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ JAMB/ SILL)
- TYPE "B1": 1/4" DIA. ULTRACON+BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
1 1/4" MIN. EMBED INTO HOLLOW BLOCK (6" MIN O.C.) (JAMB ONLY)

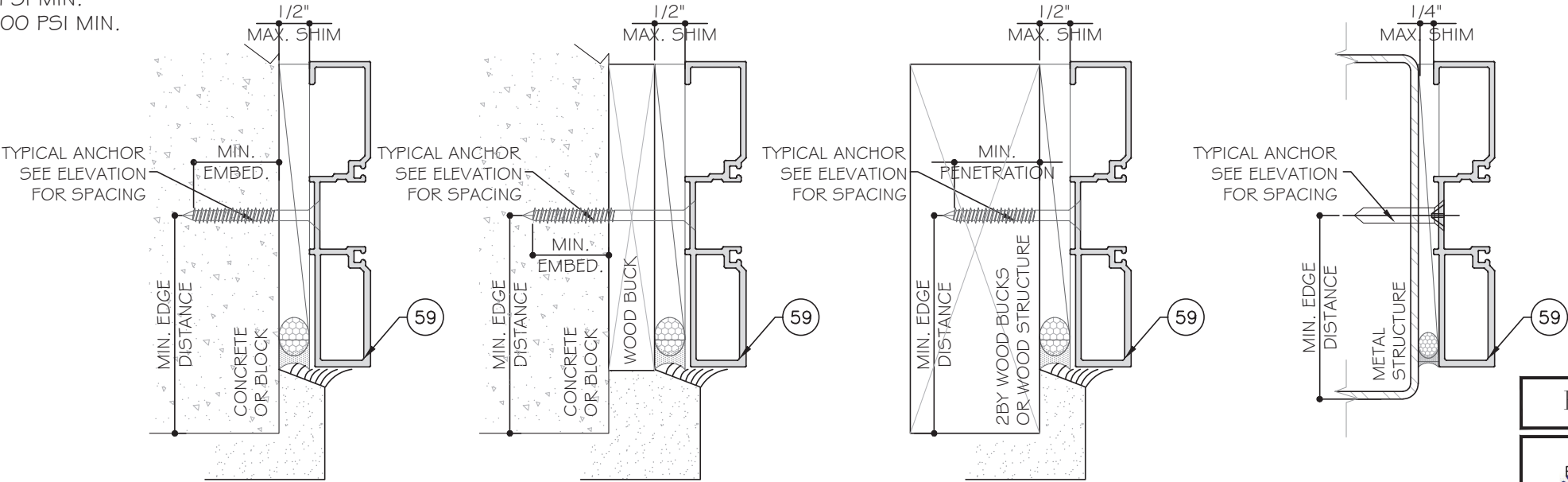
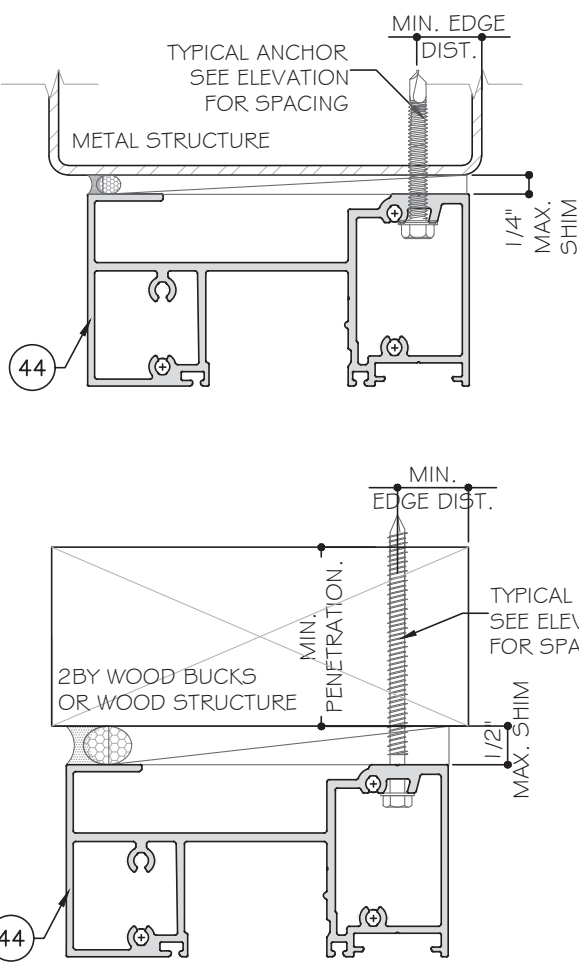
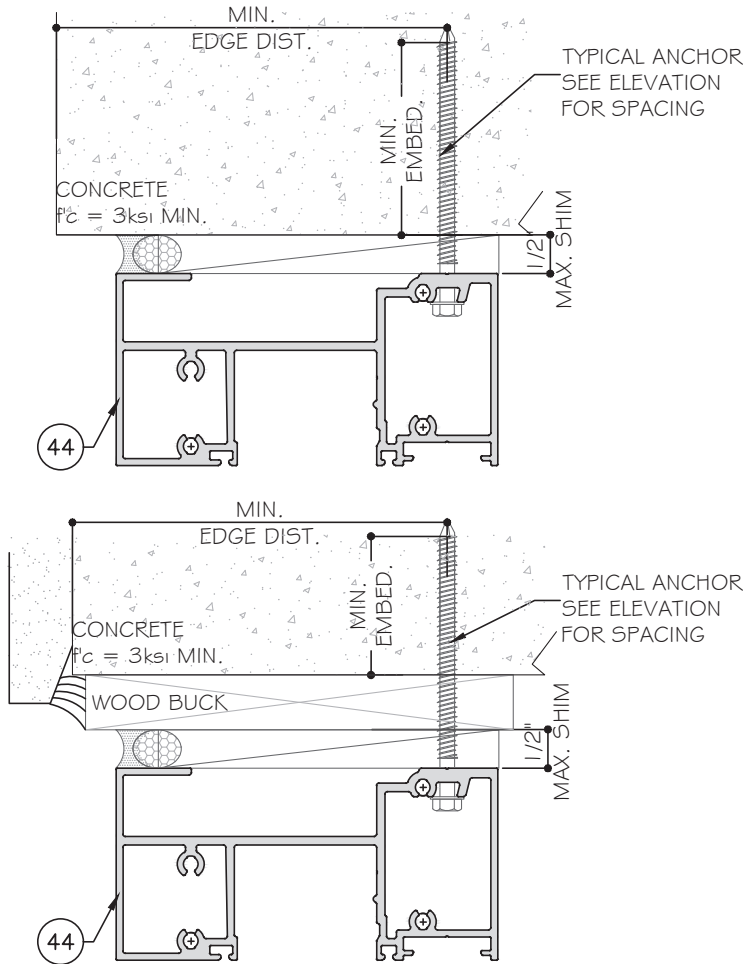
1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK (4" MIN O.C.) (JAMB ONLY)
- TYPE "C": 5/16" DIA. ULTRACON BY DEWALT ($F_u=177$ KSI, $F_y=155$ KSI)
1 3/4" MIN. EMBED INTO CONCRETE. (HEAD/ JAMB/ SILL)
- TYPE "D": 1/4" SMS OR TEKS (GRADE 5) ($F_u=120$ KSI, $F_y=92$ KSI)
INTO METAL STRUCTURE OR FLORIDA APPROVED MULLION.
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (HEAD/ JAMB)
STEEL: 1/8" THK. MIN. ($F_y=36$ ksi MIN.) (HEAD/ JAMB)
(STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.)

ANCHOR EDGED DISTANCE:
INTO CONCRETE & MASONRY= 2 1/2" MIN.
INTO WOOD STRUCTURE = 1 1/4" MIN.
INTO METAL = 3/4"

CONCRETE AT HEAD, SILL OR JAMB $f_c=3000$ PSI MIN.
C-90 HOLLOW /FILLED BLOCK AT JAMB $f_m=2000$ PSI MIN.
WOOD SG=0.55 MIN.

PRIMARY SEALANT:
SILICONE
DOWSIL 791
GE 2000

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FL #33082

YIPING WANG
FLORIDA REGISTRATION
No 55983
C.A.N. 28677

June 27th, 2025

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12781 Miramar Pkwy, Ste.301
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ES WINDOWS, INC
5220 NW 72 AVE. BAY #4 MIAMI, FL 33166
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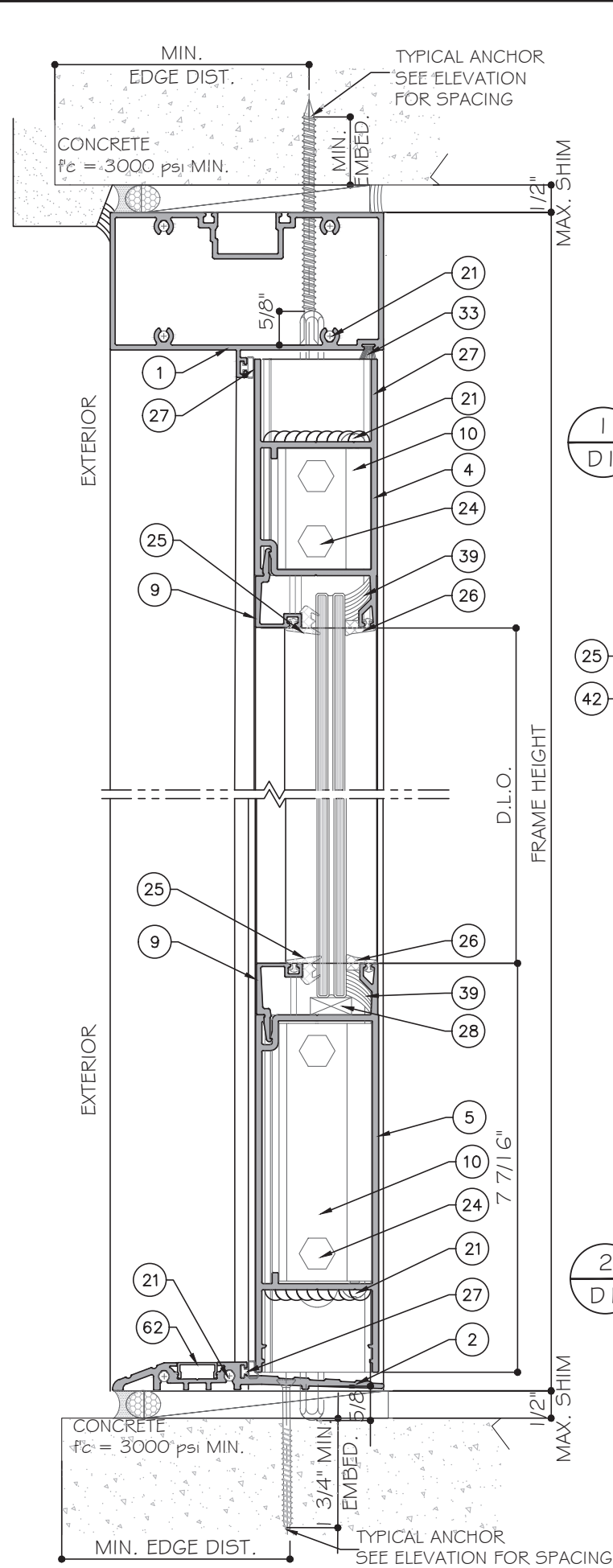
SERIES 9000 INSWING DOOR - L.M.I.

Rev.	Date	Drawn By	Description
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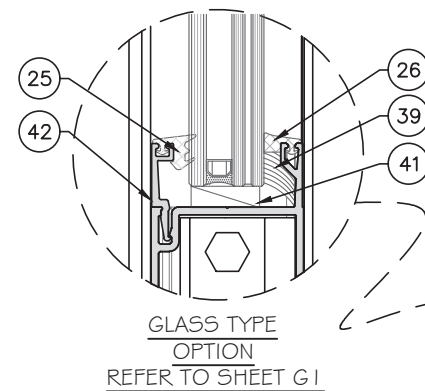
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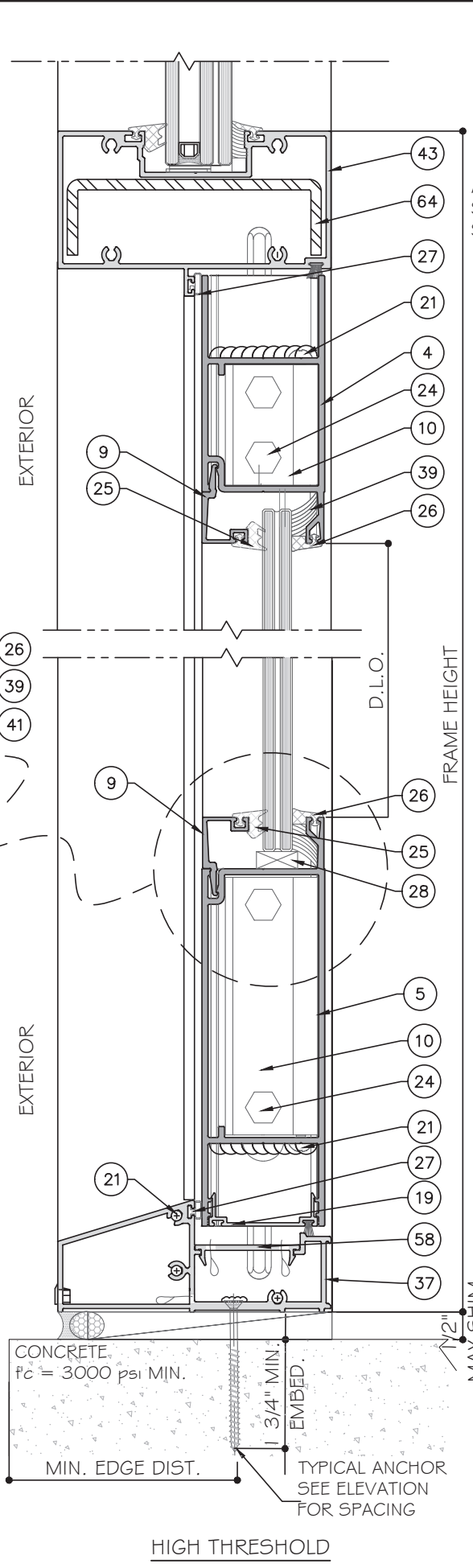
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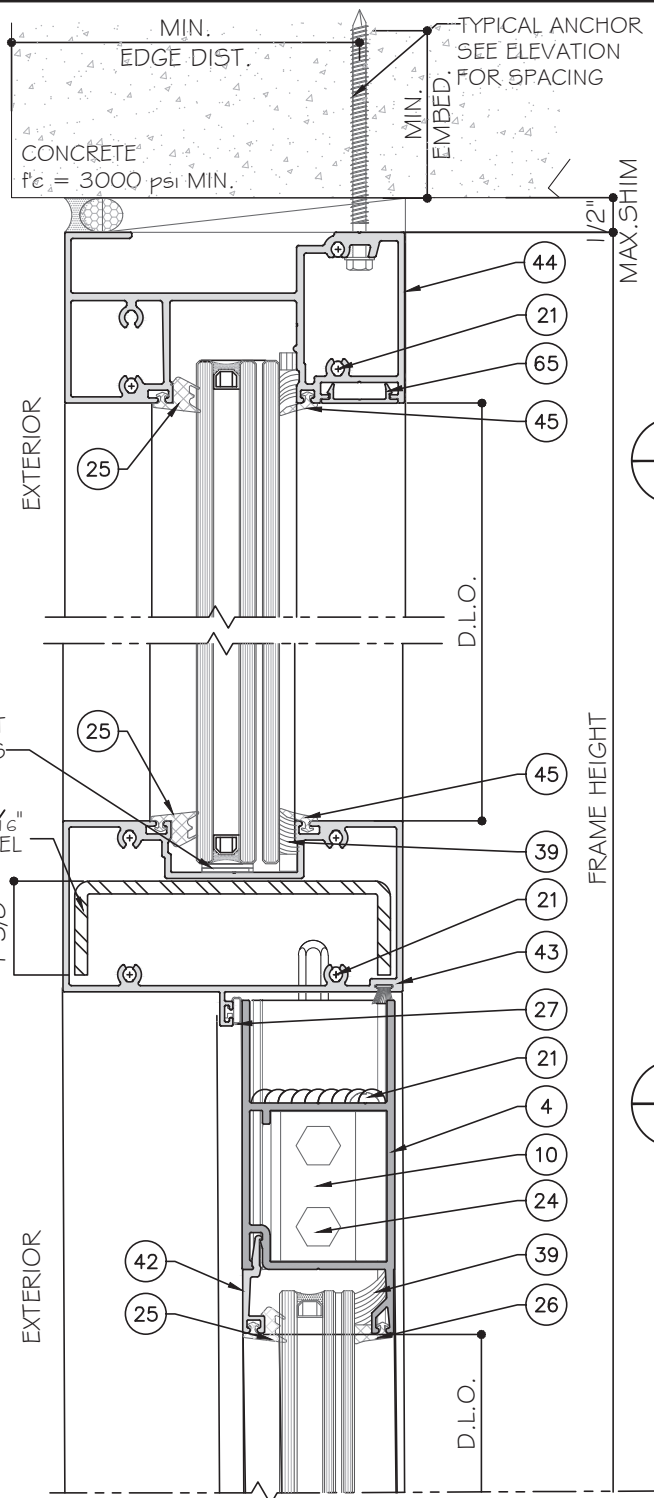
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AT XX DOOR ONLY.
SEE CHART 6 ON
SHEET E3

@ 1/8 POINT
FROM ENDS

1 3/8" x 4 5/8" x 3/16"
THK. STEEL CHANNEL

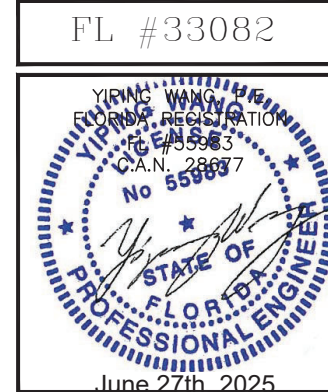
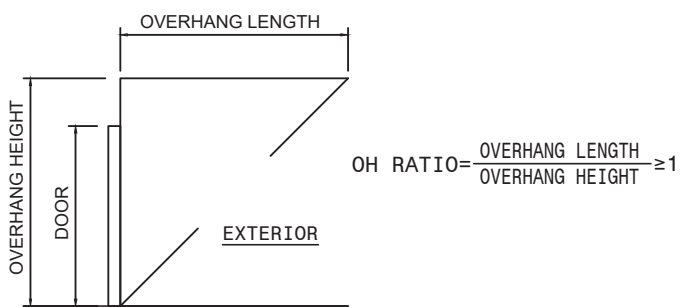
AT XX DOOR ONLY.
SEE CHART 6 ON
SHEET E3



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NOTE #1:
UNITS WHERE WATER INFILTRATION IS REQUIRED MUST BE INSTALLED AT LOCATIONS
PROTECTED BY AN OVERHANG MEETING CRITERIA AS PER ILLUSTRATION BELOW OR IN
NON-HABITABLE AREAS WHERE WATER INFILTRATION IS ACCEPTABLE. I



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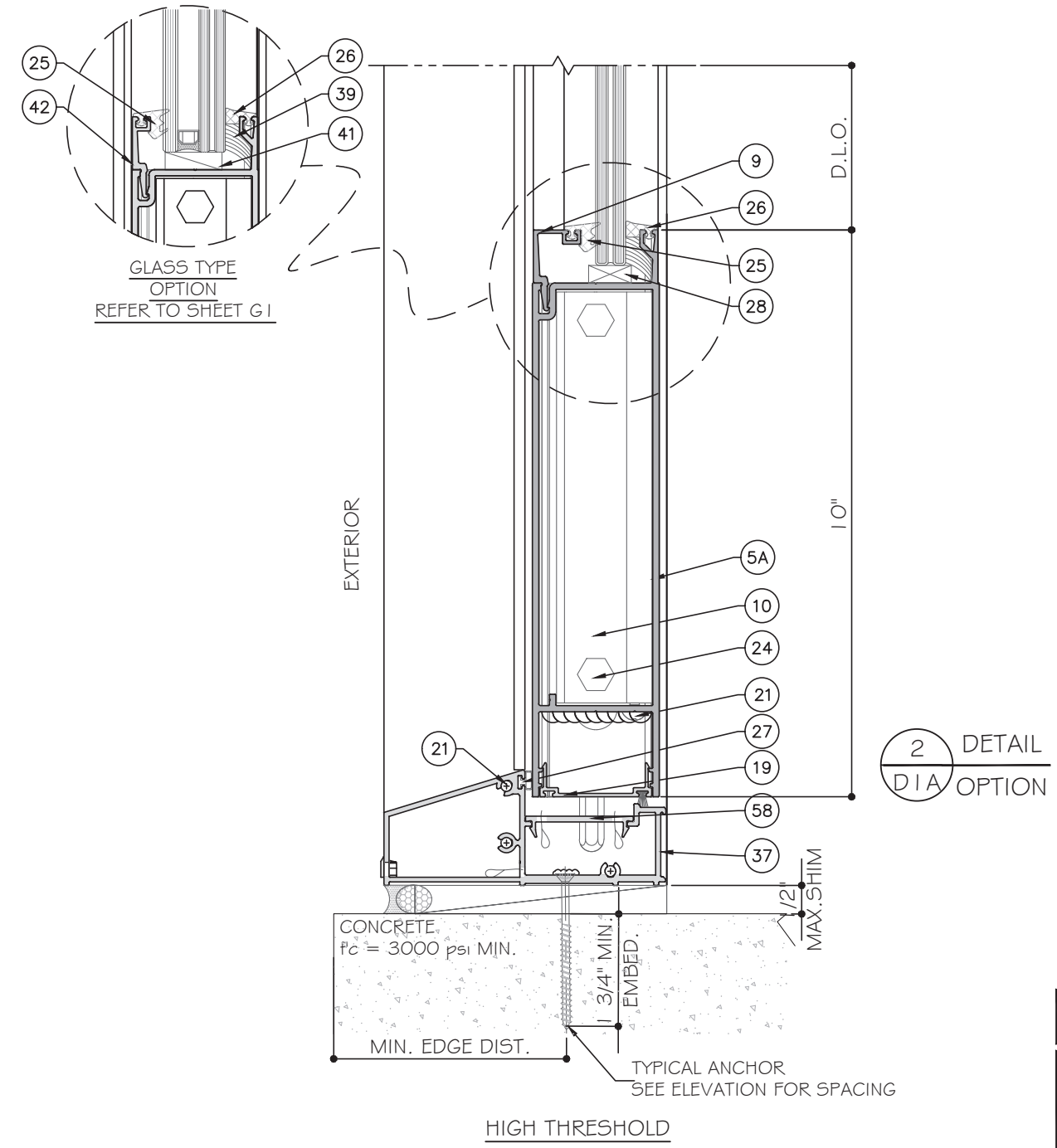
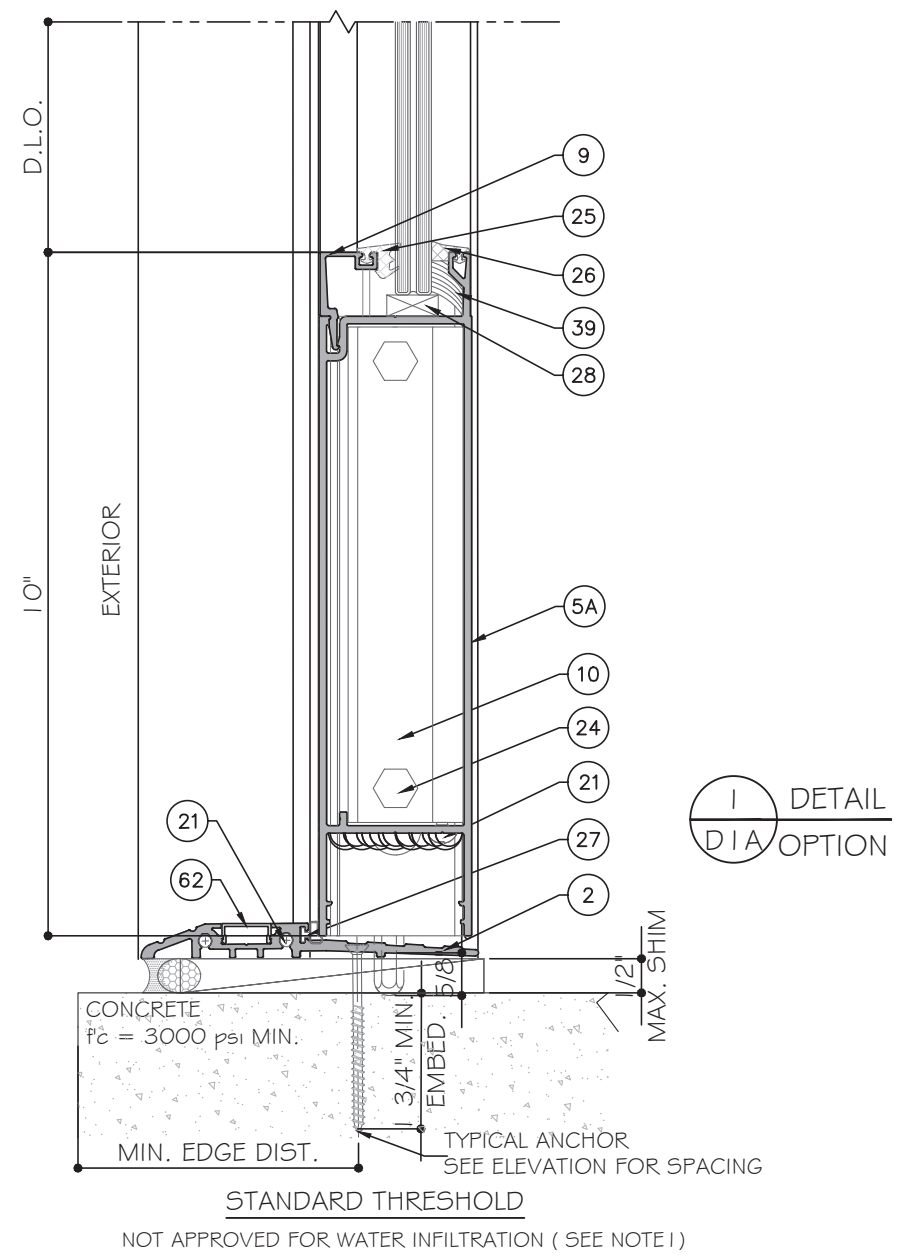
SERIES 9000 INSWING DOOR - L.M.I.

Rev.	Date	Drawn By	Description
R5	06.27.2025	James	REV/ISON

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D1
Sheet No. 8 OF 17



FL #33082

YIPING WANG
FLORIDA REGISTRATION
No 55983
C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 27th, 2025

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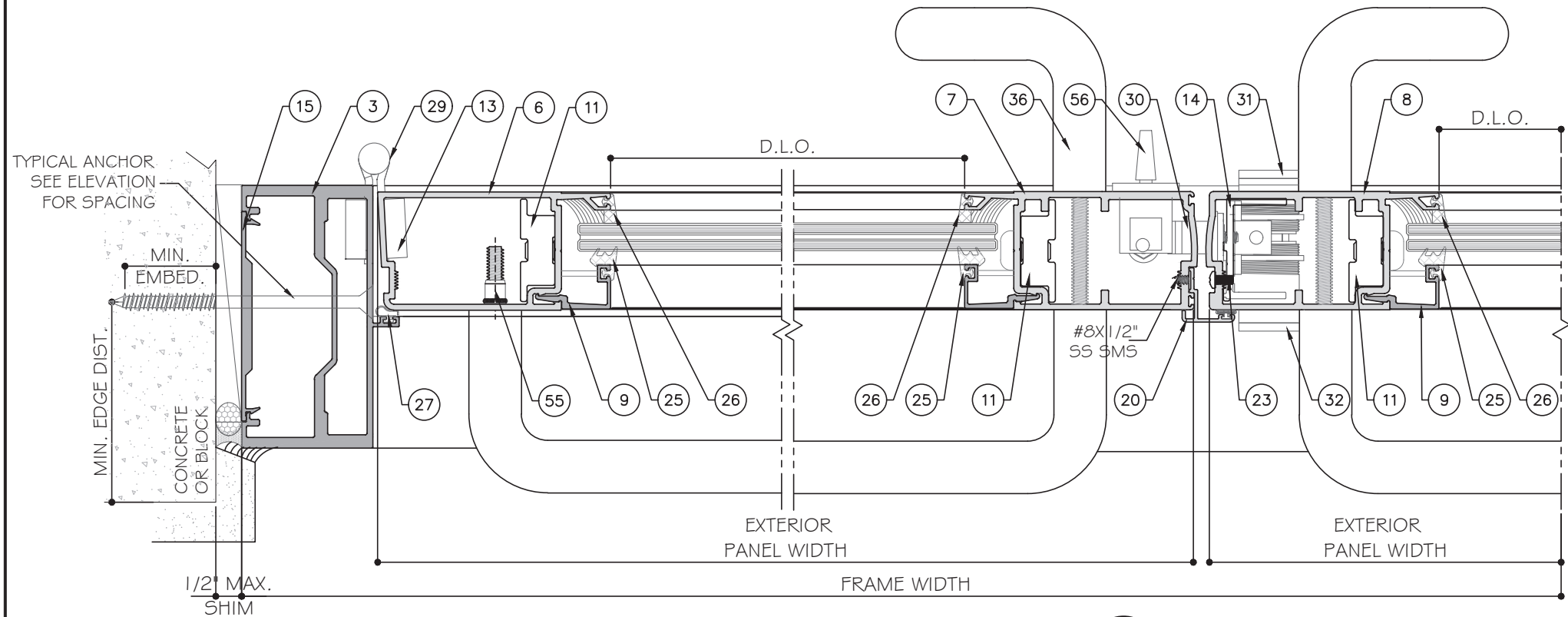
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Drawn Date: 06.27.2025 Scale: AS SHOWN

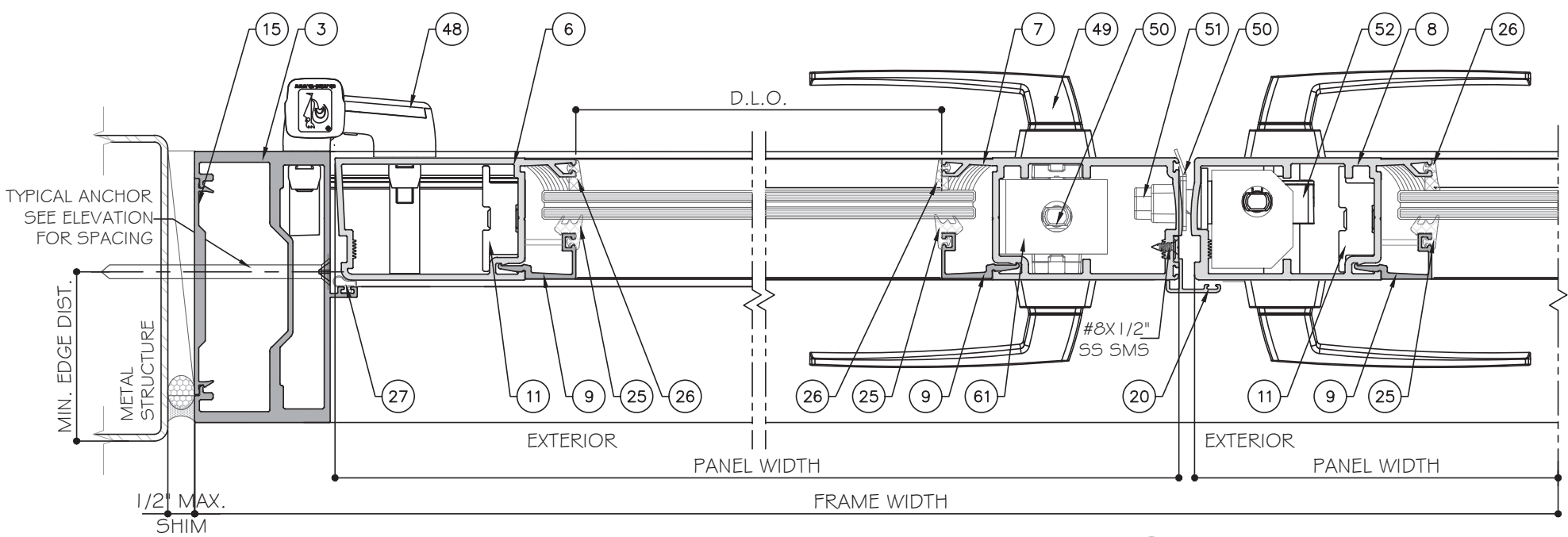
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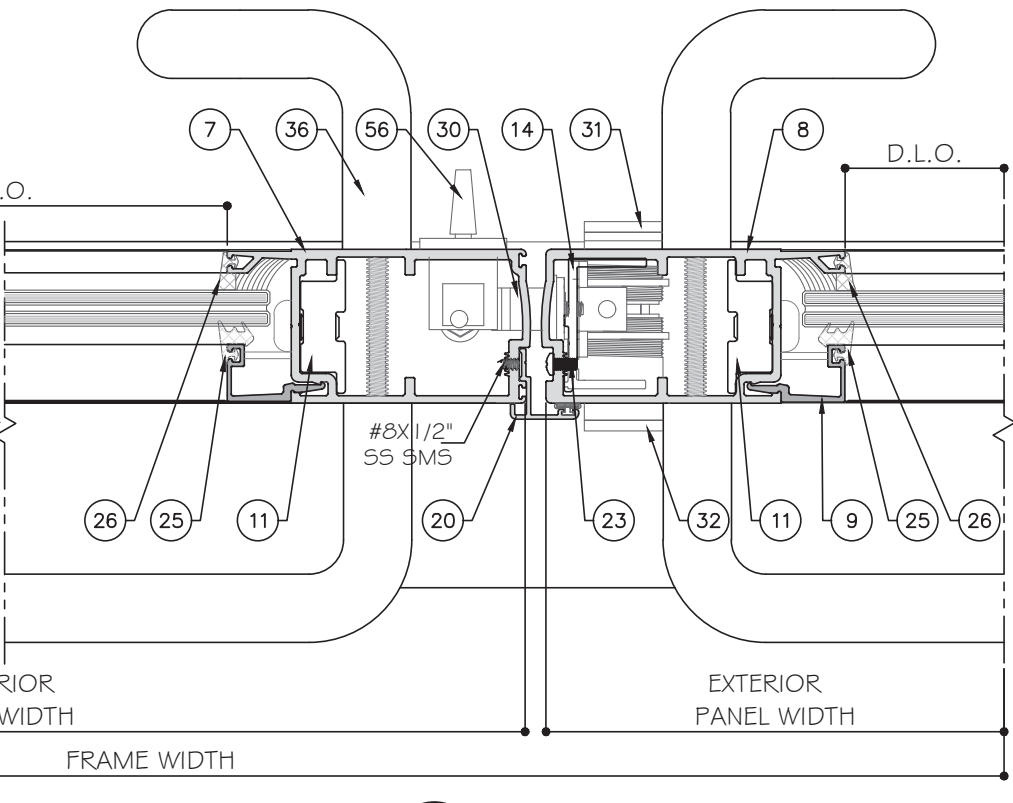
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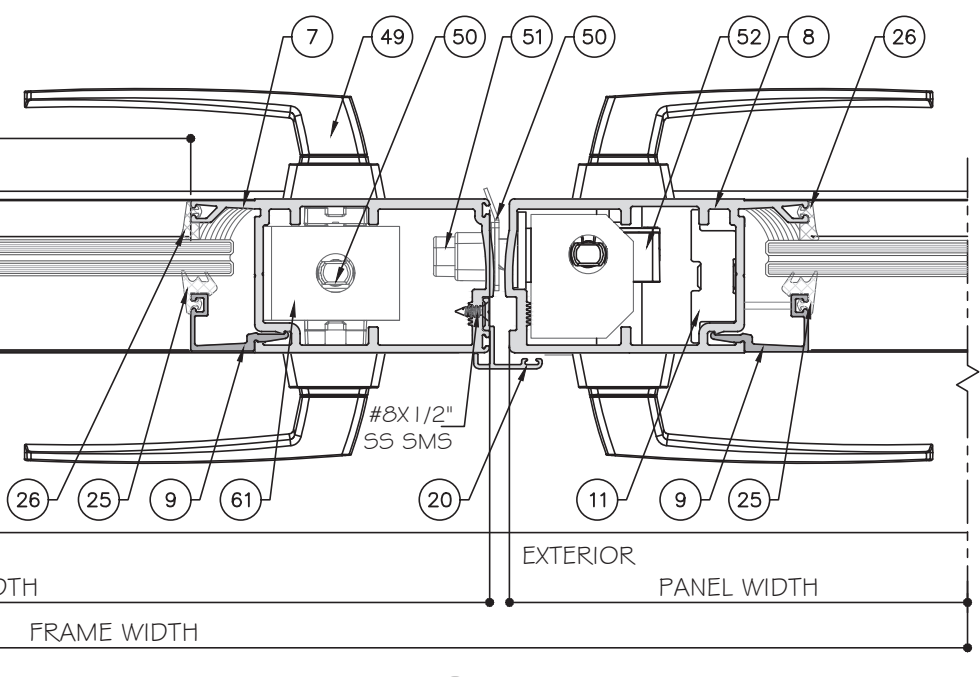
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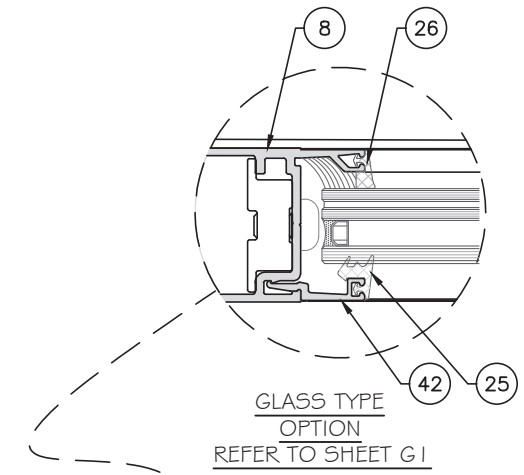
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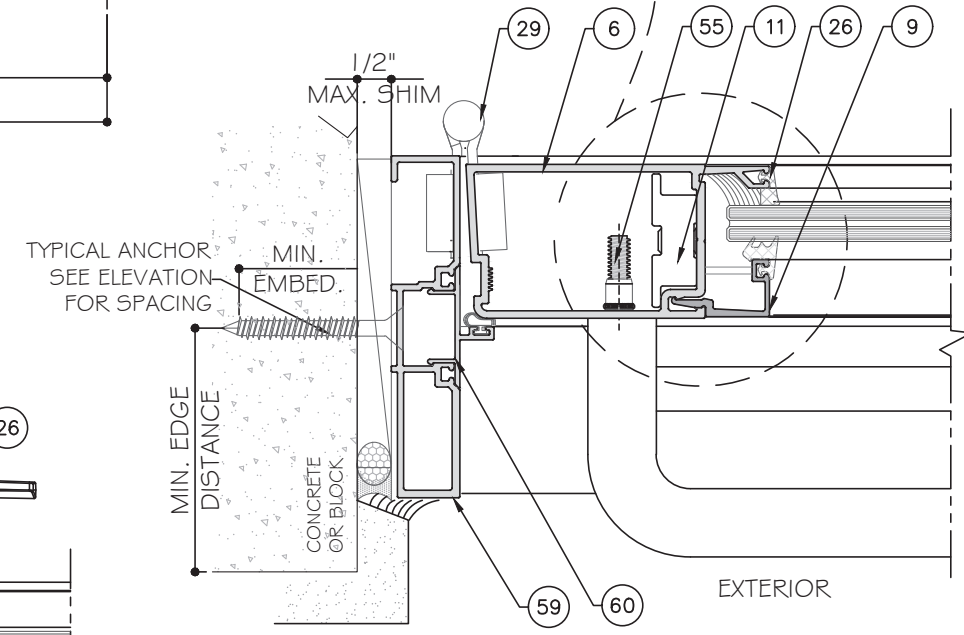
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SERIES-ES 7530 FRAME
OPTION



FL #33082

YIPING WANG
FORMER REGISTRATION
No 55983
C.A.N. 28677

STATE OF
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June 27th, 2025

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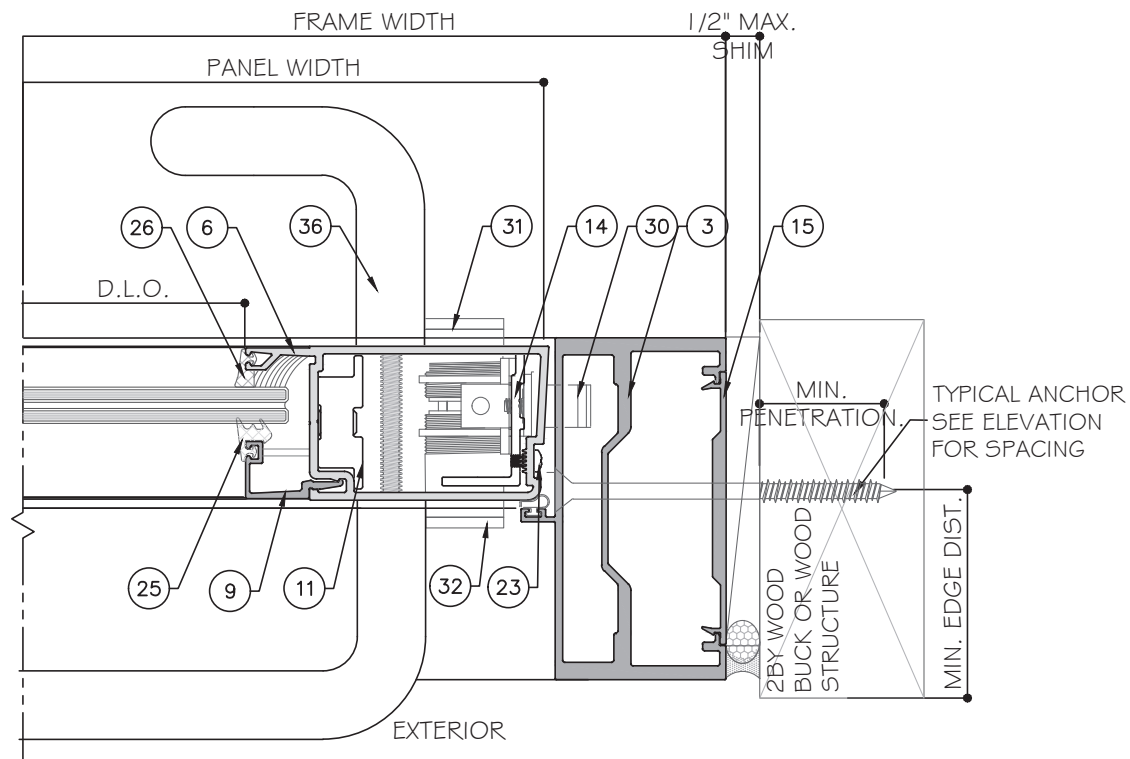
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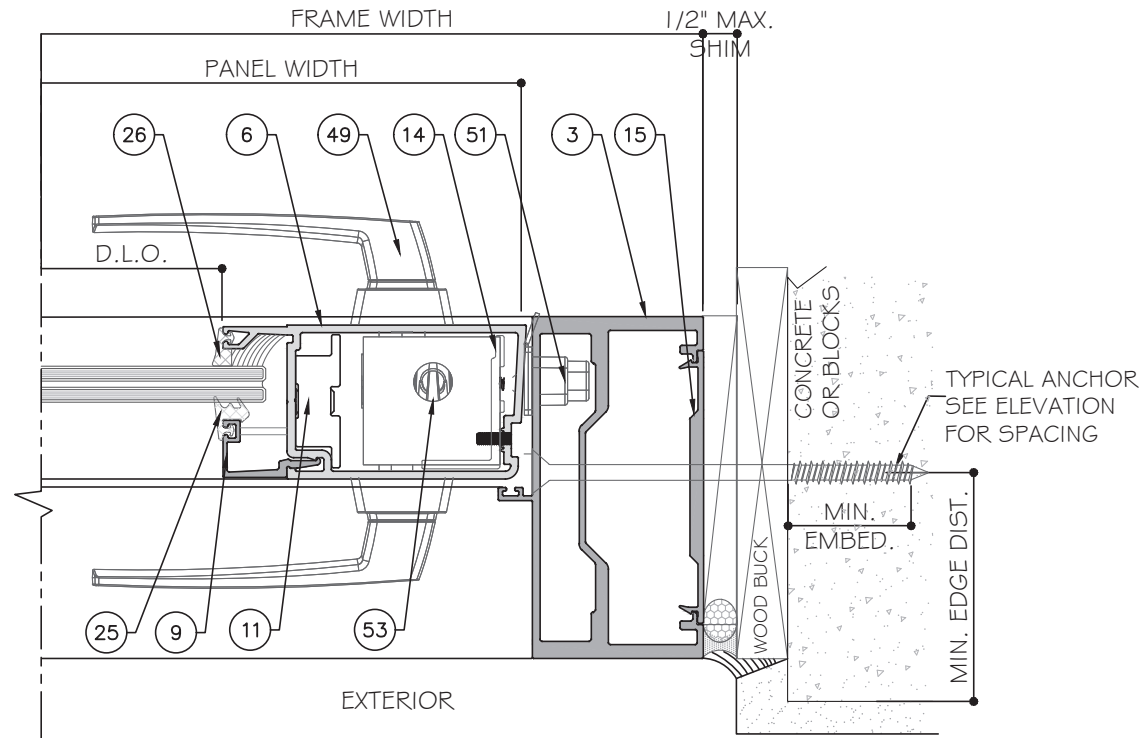
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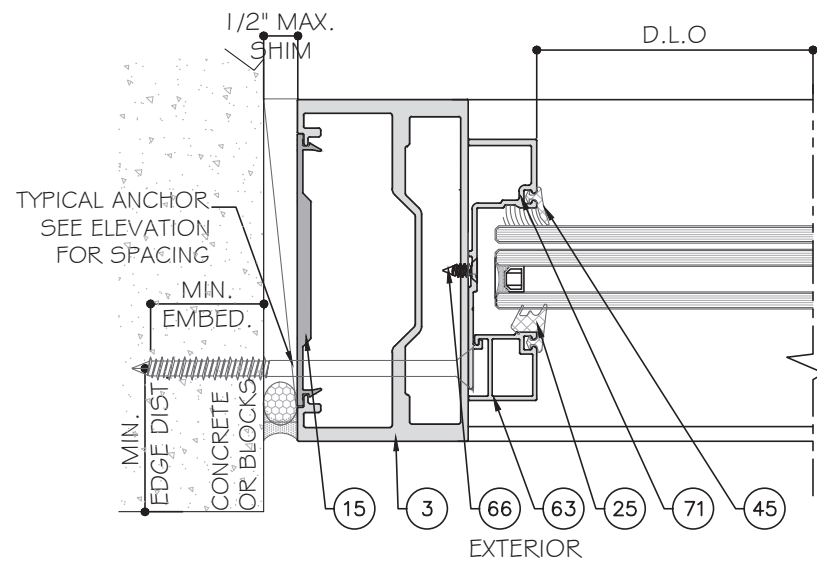
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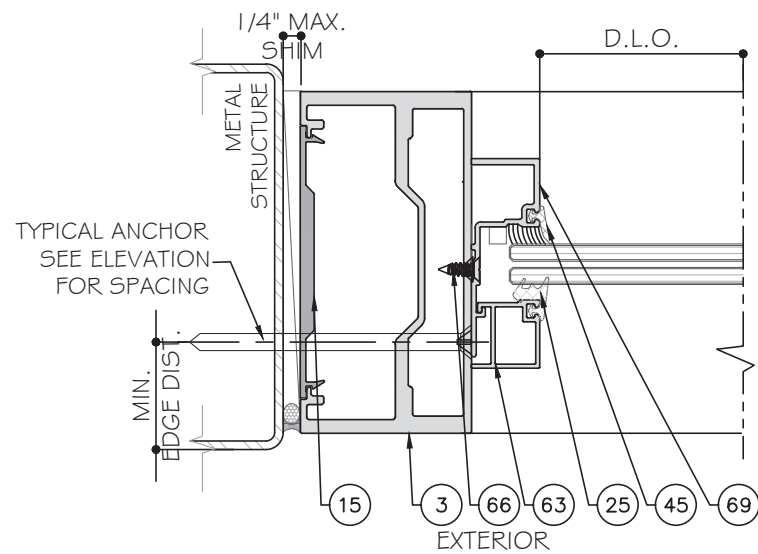
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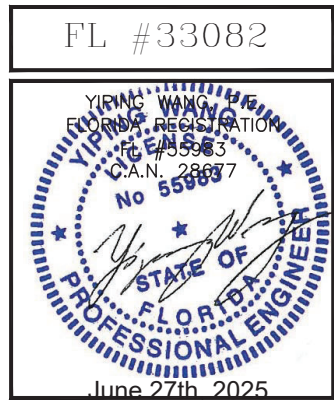
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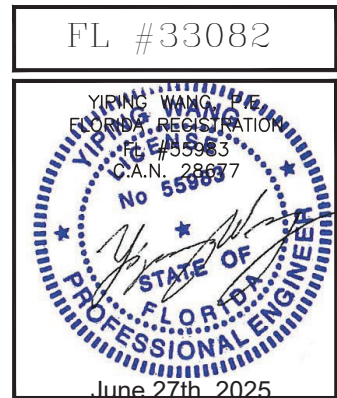
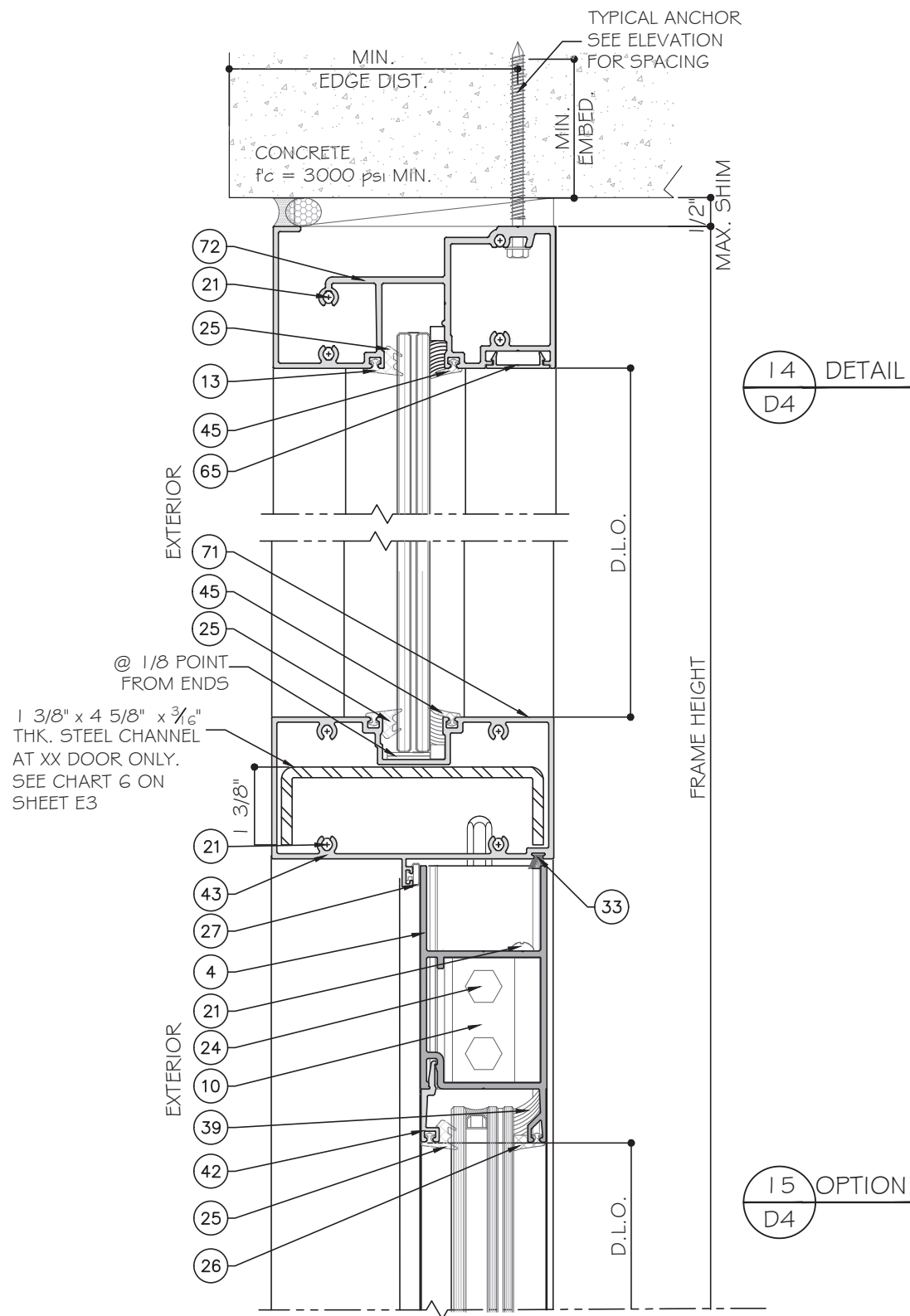
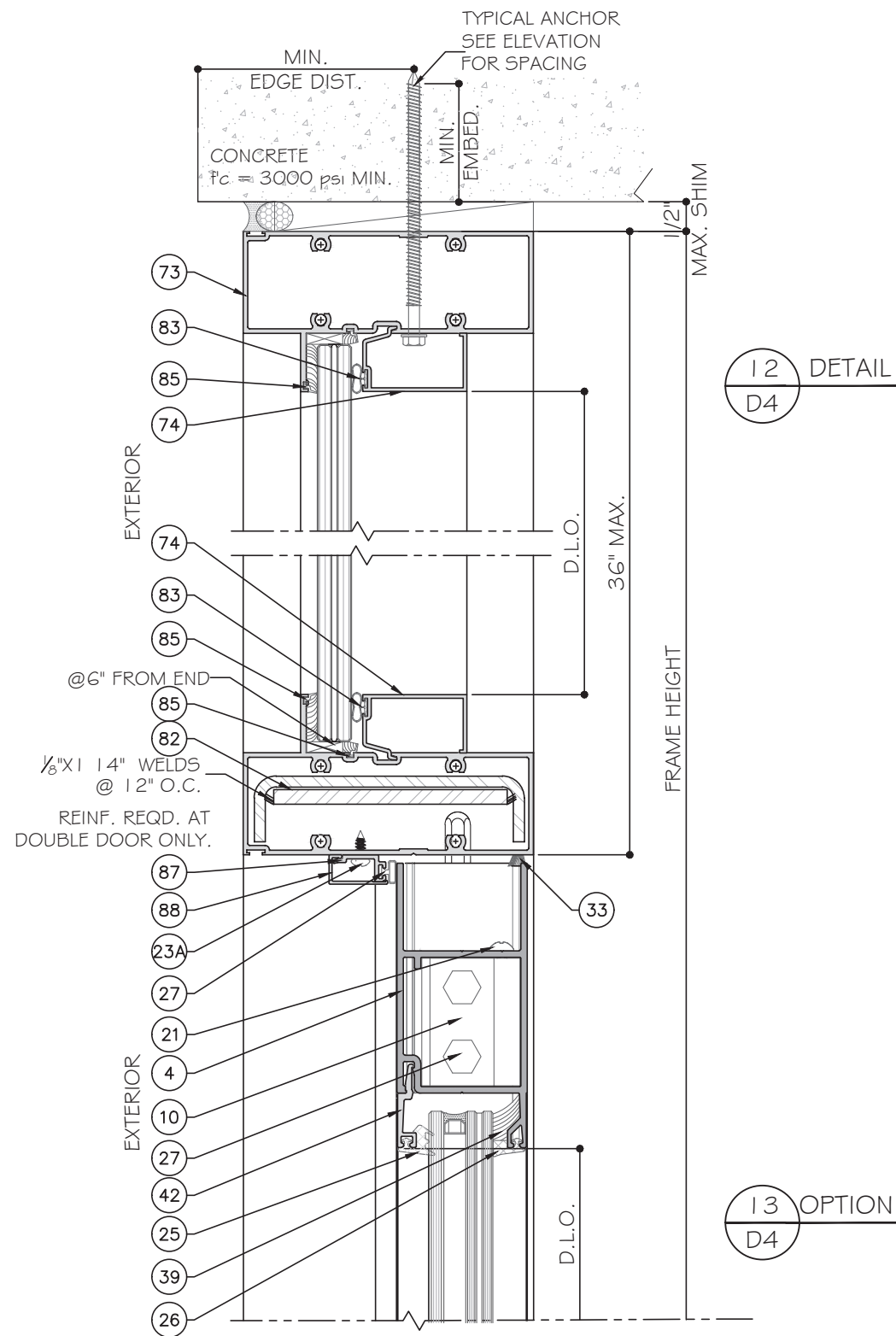
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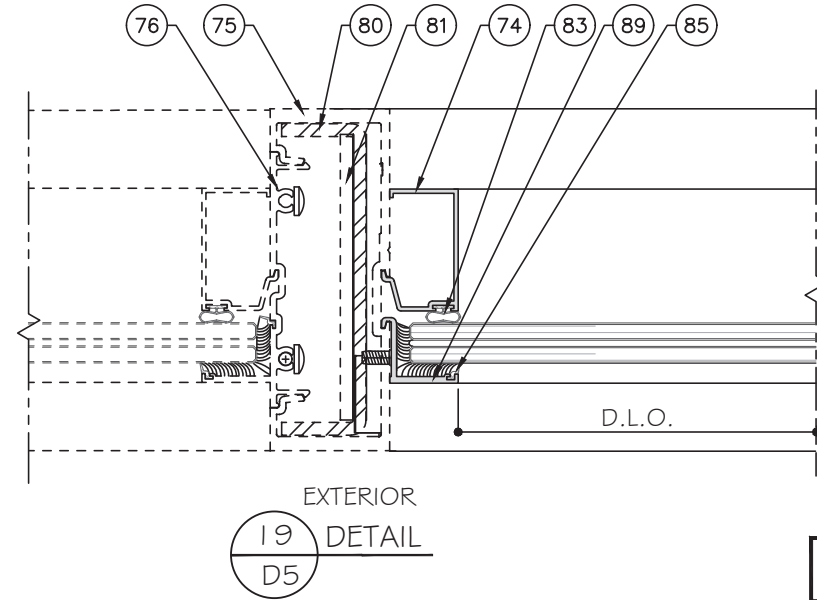
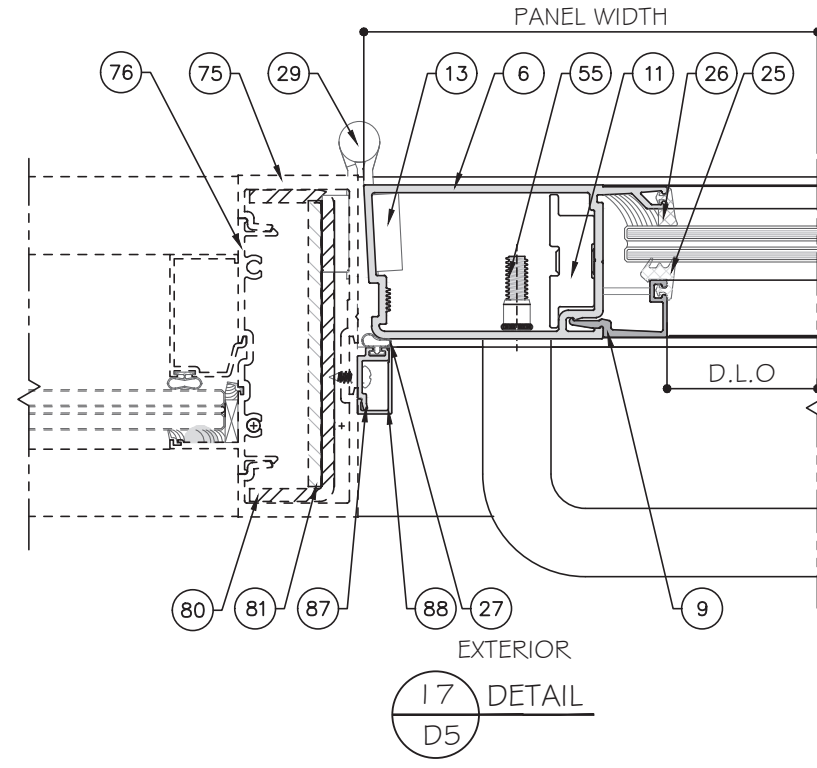
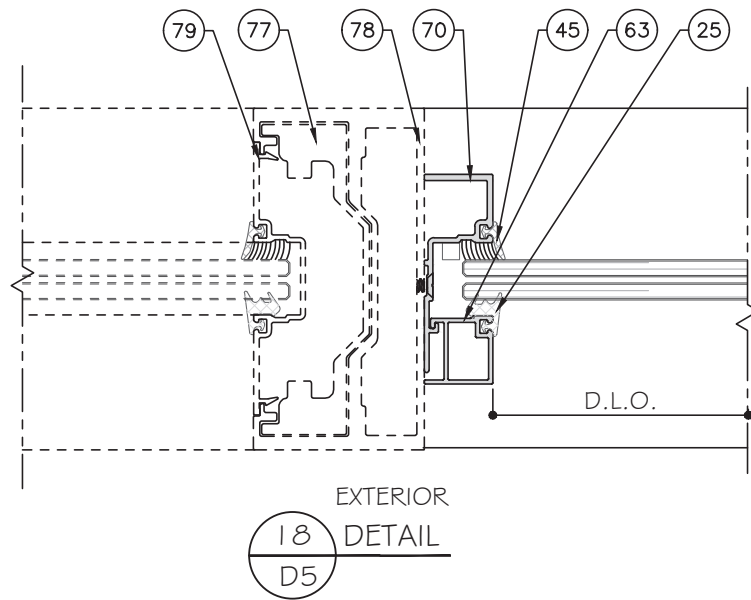
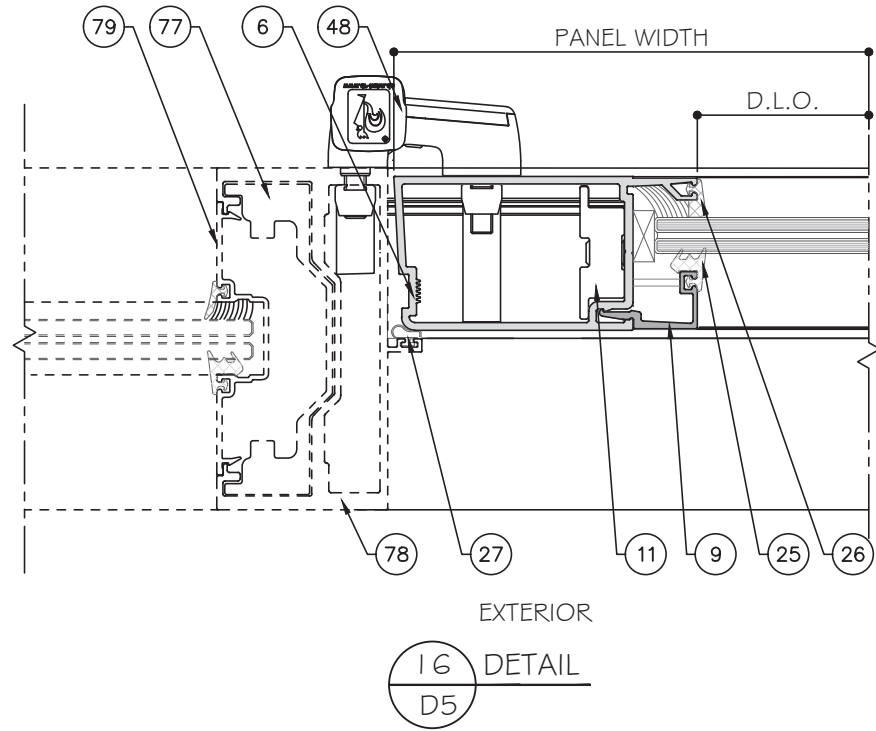
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R5	06.27.2025	James		
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FL #33082

YIPING WANG
FLORIDA REGISTRATION
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 27th, 2025

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GLAZING CONSULTANTS

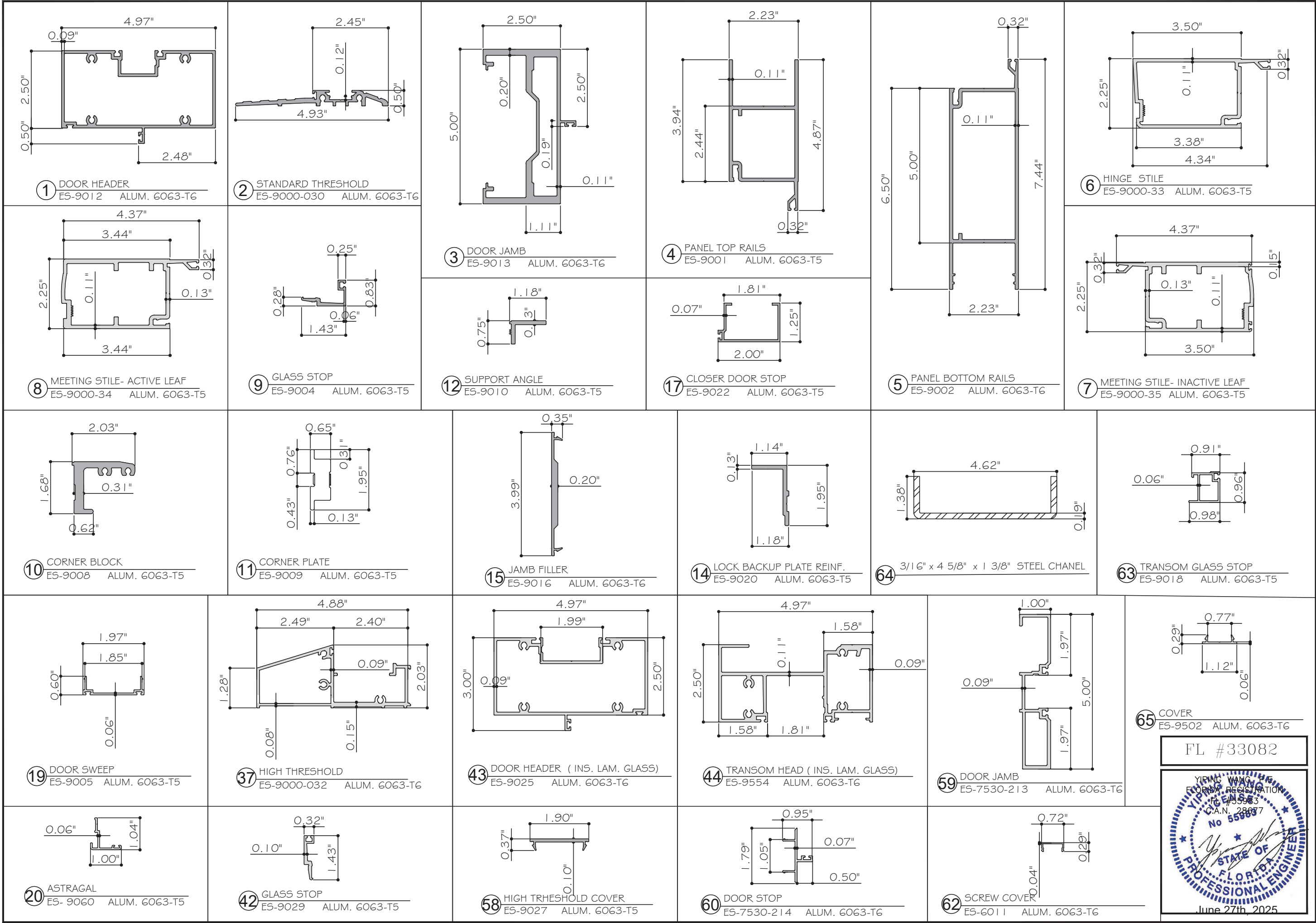
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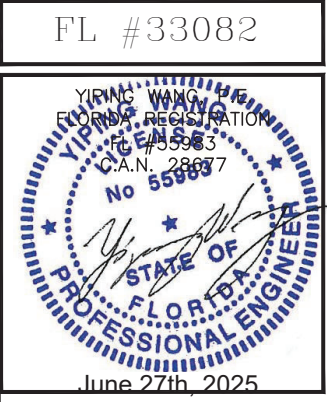
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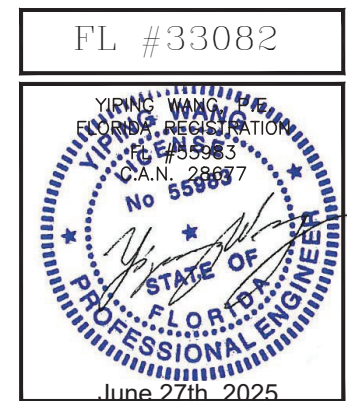
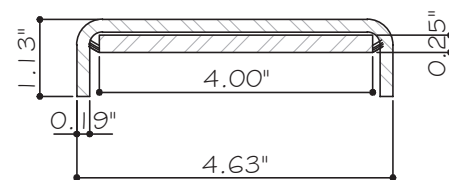
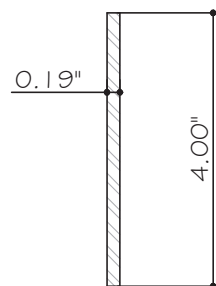
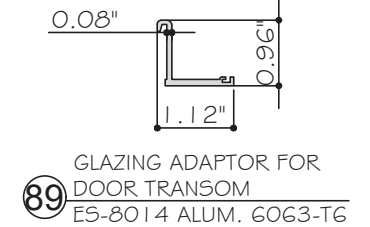
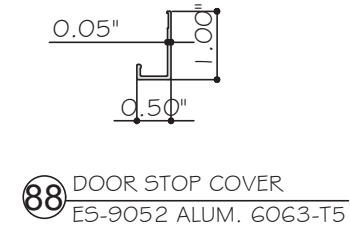
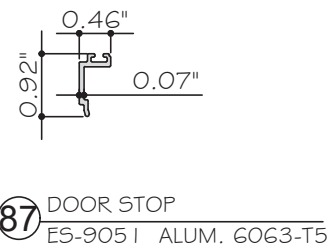
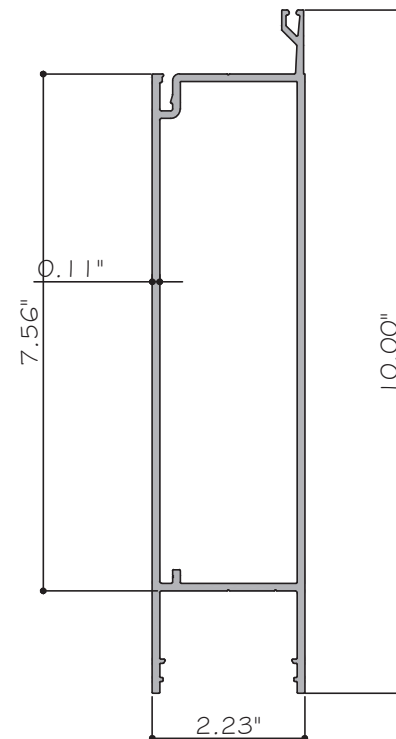
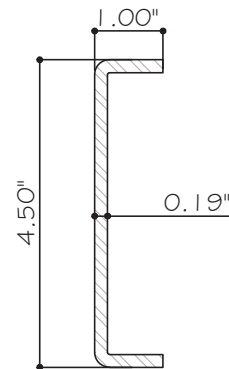
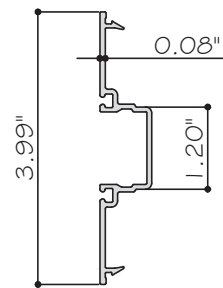
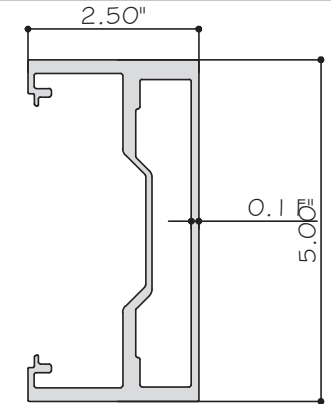
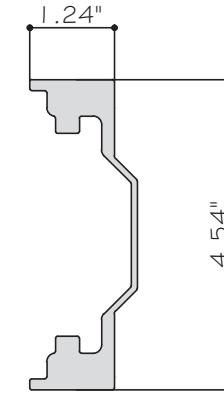
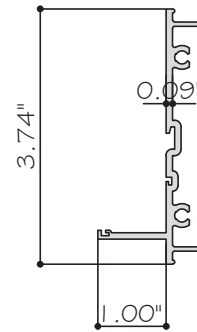
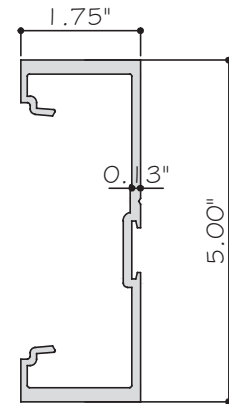
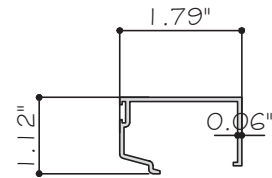
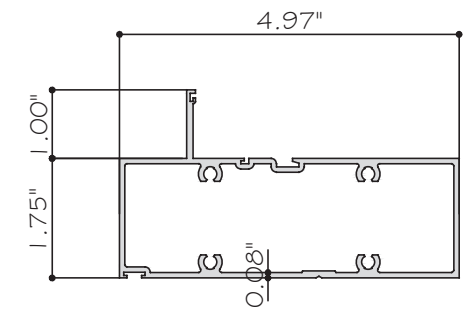
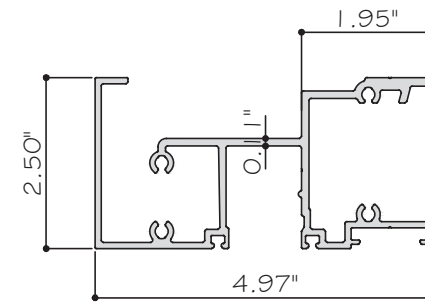
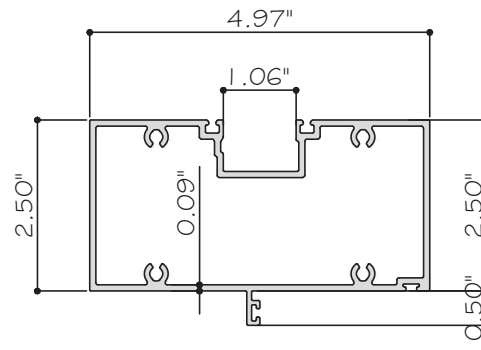
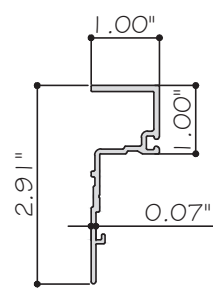
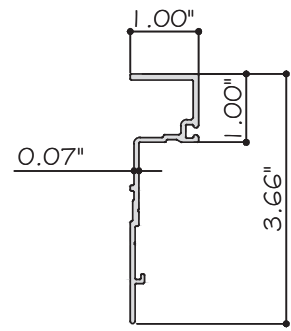
AD20-28

PARTS

Sheet No.

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MCY ENGINEERING, INC.
GLAZING CONSULTANTS
2701 Wisconsin Drive, Suite 201


 12701 Miramar Pkwy, Ste. 301
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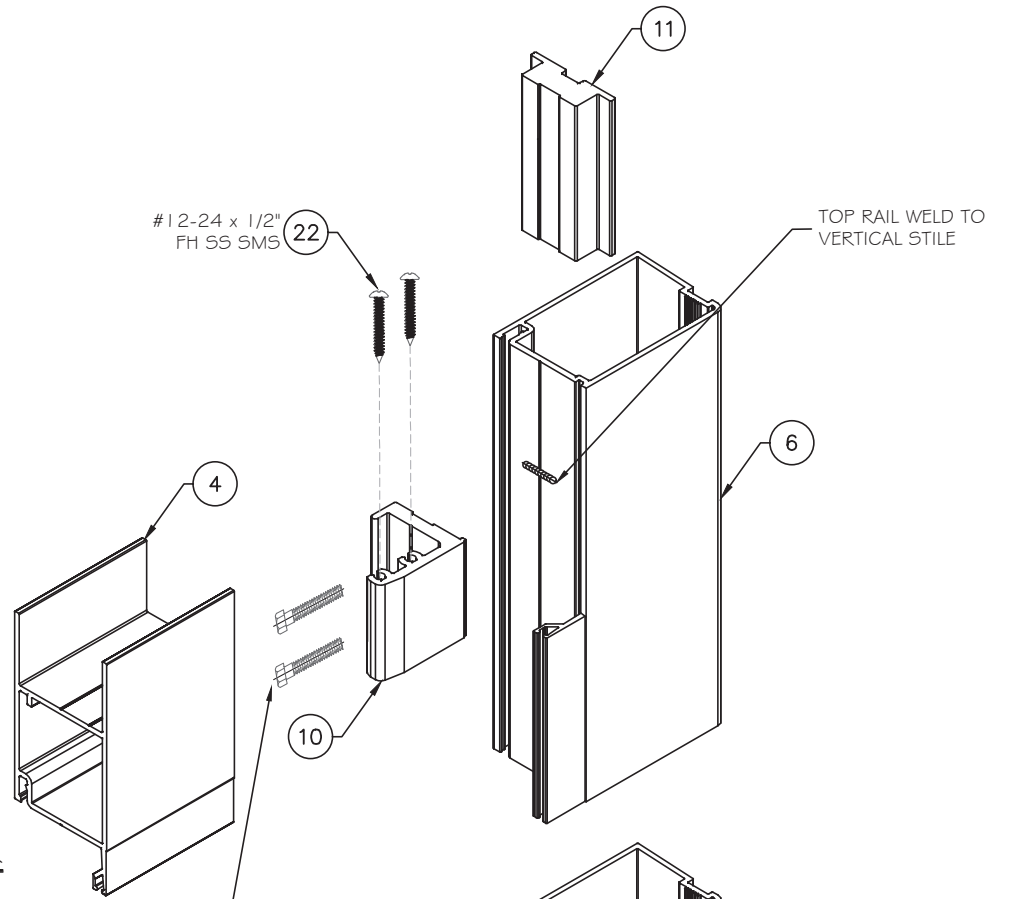
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ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	E5-9012	DOOR HEADER	ALUM. 6063-T6	-
2	E5-9000-30	STANDARD THRESHOLD	ALUM. 6063-T6	-
3	E5-9013	DOOR JAMB	ALUM. 6063-T6	-
4	E5-9001	PANEL TOP RAILS	ALUM. 6063-T5	-
5	E5-9002	PANEL BOTTOM RAILS	ALUM. 6063-T5	-
5A	E5-9000-031	PANEL BOTTOM RAILS	ALUM. 6063-T5	-
6	E5-9000-33	HINGE STILE	ALUM. 6063-T5	-
7	E5-9006	MEETING STILE- INACTIVE LEAF	ALUM. 6063-T5	-
8	E5-9007	MEETING STILE- ACTIVE LEAF	ALUM. 6063-T5	-
9	E5-9004	VERTICAL AND HORIZONTAL GLASS STOP	ALUM. 6063-T5	-
10	E5-9008	CORNER BLOCK TOP & BOTTOM	ALUM. 6063-T5	-
11	E5-9009	CORNER PLATE TOP & BOTTOM	ALUM. 6063-T5	-
12	E5-9010	SUPPORT ANGLE	ALUM. 6063-T5	3/4" X 1" X 1/8" X 9" LONG
13	E5-9011	HINGE BACKUP PLATE REINFORCING	ALUM. 6063-T5	1 1/4" X 9" X 3/8" THK.
14	E5-9020	LOCK BACKUP PLATE REINFORCING	ALUM. 6063-T5	-
15	E5-9016	JAMB FILLER	ALUM. 6063-T5	-
16	E5-9021	CLOSER SUPPORT CLIP , 1/CLOSER	ALUM. 6063-T5	-
17	E5-9022	CLOSER DOOR STOP	ALUM. 6063-T5	-
18	E5-9023	CLOSER COVER PLATE	ALUM. 6063-T5	-
19	E5-9005	DOOR SWEEP	ALUM. 6063-T5	-
20	E5-9060	DOOR SWEEP	ALUM. 6063-T5	-
21	#12X1" P.H. S.M.S.	LEAF FRAME ASSEMBLY SCREW	ST/ST	-
22	#12X24X1/2" F.H. M.S.	FOR HINGE, INT. PIVOT & THRESHOLD CLIP	ST/ST	-
23	#8-32X1/2" P.H. NAT ST/ST	FOR SUPPORT ANGLE & LOCK BACKUP PLATE	ST/ST	-
23A	#8X1/2" PH. SMS	STAINLESS STEEL SCREW	ST/ST	-
24	3/8"-16X1" HEX BOLT	LEAF ASSEMBLY	-	-
25	E5-9000- G01	EXTERIOR GASKET	EPDM	DURAMETER 70±5 SHORE A
26	E5-9000- G02	INTERIOR GASKET	EPDM	DURAMETER 70±5 SHORE A
27	E5-9000- G03	BULB VINYL LONG 9002+LONG 9003+7").2	ULTRAFAB	DURAMETER 73
28	E5-9000- B01	SETTING BLOCK	EPDM	DURAMETER 80+5 SHORE A
29	HINGE 4" X 4 1/2"	BUTT HINGES	ST/ST	HANGER
30	M51953-350	3 POINT LOCK	-	ADAMS RITE
31	SBCTNO3	KEY CYLINDER	-	-
32	SBCCO1.528 -1.5	KEY CYLINDER	-	-
33	W13273NK	PILE-HEADER	WOOL	-
34	W23451NK	PILE WITH INTEGRATED FIN MTG. STILES	WOOL	-
35	W13351NK	PILE-SWEEP	WOOL	-
36	BF157A47	PUSH-PULL	ST/ST	-
37	E5-9000-032	HIGH THRESHOLD	ALUM. 6063-T6	-
38	-	THRESHOLD CLIP	ST/ST	-
39	DC 983	STRUCTURAL SILICONE	SILICONE	-
40	DC 791	SEALANT SILICONE	SILICONE	-
41	E5 9000-B02A	SETTING BLOCK FOR INS. LAM. GLASS	EPDM	DURAMETER 80+5 SHORE A

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
42	ES 9029	GLASS STOP	ALUM. 6063-T5	-
43	ES 9525	DOOR HEADER (LAM INS. GLASS)	ALUM. 6063-T6	-
44	ES 9554	TRANSOM HEAD (INS. LAM. GLASS)	ALUM. 6063-T5	-
45	ES-9500-G01	TRIM GASKET	EPDM	DURAMETER 70±5 SHORE A
46	ES-4520-G02A	FOR CLOSER DOOR STOP	-	-
47	-	INS. LAM. GLASS SPACER	ALUMINUM	-
48	DR HAHN 60AT 2-TLG.	RESIDENTIAL HINGE	-	DR. HAHN
49	DLO1- 6192-117	LOCK HANDLE KIT	DIE CAST ALUMINUM	ADAMS RITE
50	DLO1- 4019	DOOR STRIKE	ST/ST	-
51	DLO1- 2020	PLASTIC RECEIVER	ABS	-
52	DLO1- 6063	LCL 40 MM. MORTICE LOCK.	ZINC ALLOY	-
53	DLO1- 6040	SOOL BOLT TIPS	ST/ST	-
54	DLO1- 6002	ROD	ALUMINUM	-
55	AEKA-420-165	1/4" - 20 NUT FOR INSERT IN PUSH BAR	STEEL	-
56	MS 1880-04	2 POINT LOCK	ST/ST	-
57	AEKA-420-165	1/4" - 20 NUT FOR INSERT IN PUSH BAR	STEEL	-
58	ES-9027	HIGH THRESHOLD COVER	ALUM. 6063-T5	-
59	ES-7530-213	DOOR JAMB	ALUM. 6063-T6	-
60	ES-7530-214	DOOR STOP	ALUM. 6063-T6	-
61	ALU-A-027	ANGLE 2" X 1/8"	ALUM. 6063-T6	-
62	ES-6011	SCREW COVER	ALUM. 6063-T6	-
63	ES-9018	TRANSOM GLASS STOP	ALUM. 6063-T5	-
64	-	3/16" x 4 5/8" x 13/8" STEEL CHANEL	STEEL	-
65	ES-9502	COVER	ALUM. 6063-T5	-
66	#10 X 1/2" F.H.	FOR TRANSOM ADAPTER	ST/ST	-
67	T-BOND V2208	INTERIOR SPACER	EPDM	DURAMETER 80+5 SHORE A
68	ES-9019	TRANSOM ADAPTER	SILICONE	-
69	ES-9019	TRANSOM ADAPTER (INS. LAM. GLASS)	ALUM. 6063-T5	-
70	ES-9024	TRANSOM ADAPTER (INS. GLASS)	ALUM. 6063-T5	-
71	ES-9012	DOOR HEADER	ALUM. 6063-T6	-
72	ES-9506	TRANSOM HEAD (LAM. GLASS)	ALUM. 6063-T6	-
73	ES-8005	TRANSOM HEAD (LAM. GLASS)	ALUM. 6063-T6	-
74	ES-8006	TRANSOM GLASS STOP	ALUM. 6063-T6	-
75	ES-8012	DOOR ADAPTOR MULLION	ALUM. 6063-T6	-
76	ES-8002	MULLION SNAP IN MATE	ALUM. 6063-T6	-
77	ES-9017	REINFORCEMENT	ALUM. 6063-T6	-
78	ES-9013	DOOR JAMB	ALUM. 6063-T6	-
79	ES-9508	FILLER.	ALUM. 6063-T6	-
80	-	STEEL CHANNEL 3/16".	STEEL	-
81	-	STEEL BAR 3/16".	STEEL	-
82	-	3/16" x 4 5/8" x 11/8" STEEL CHANEL AND W 1/4" x 4" STEEL BAR	STEEL	-
83	ES-8010	BULB SEAL	EPDM	DURAMETER 60+5 SHORE A
84	ES-8011	SPACER GASKET	EPDM	DURAMETER 85+5 SHORE A
85	ES-8009	SILICONE DAM	EPDM	DURAMETER 60+5 SHORE A
86	ES-6025-B05	SETTING BLOCK FOR LAM. GLAS.	EPDM	DURAMETER 85+5 SHORE A
87	ES-9051	DOOR STOP	ALUM. 6063-T5	-
88	ES-9052	DOOR STOP COVER	ALUM. 6063-T5	-
89	ES-8014	GLAZING ADAPTOR FOR DOOR TRANSOM	ALUM. 6063-T6	-

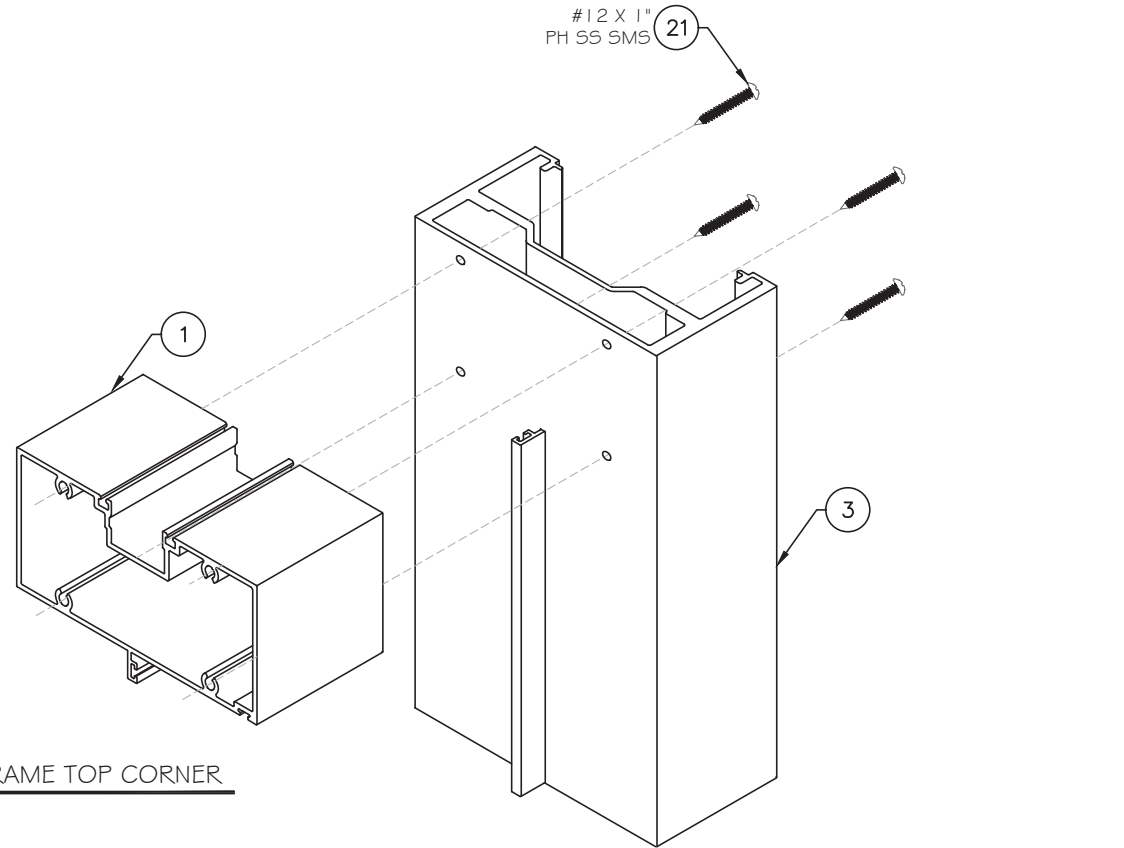
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FC 455983
C.A.N. 28687
No 55983
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
June 27th 2025

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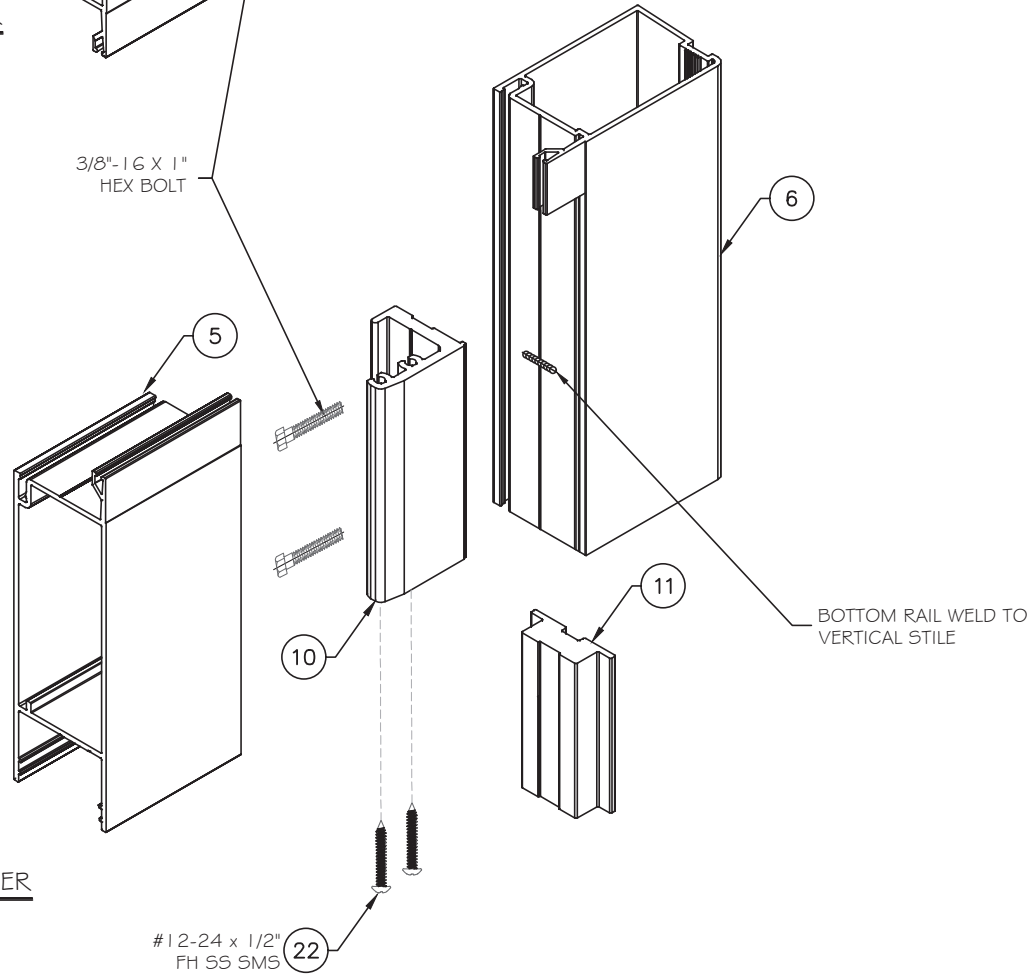
DOOR LEAF TOP CORNER



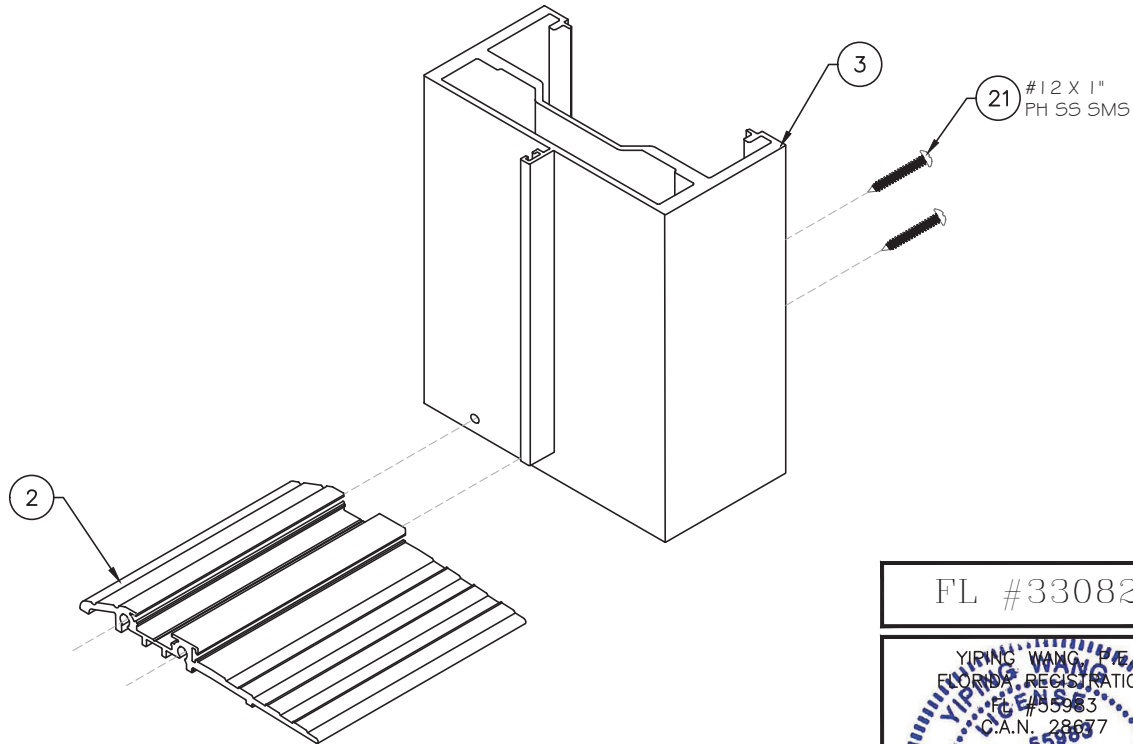
FRAME TOP CORNER



DOOR LEAF BOTTOM CORNER



THRESHOLD CORNER



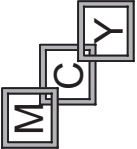
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YIPING WANG
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June 27th, 2025

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Rev. No.	Date	Drawn By	REV/ISON	Description
R5	06.27.2025	James		

Drawn Date 06.27.2025 Scale AS SHOWN

DRAWING NO. AD20-28

ISO

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