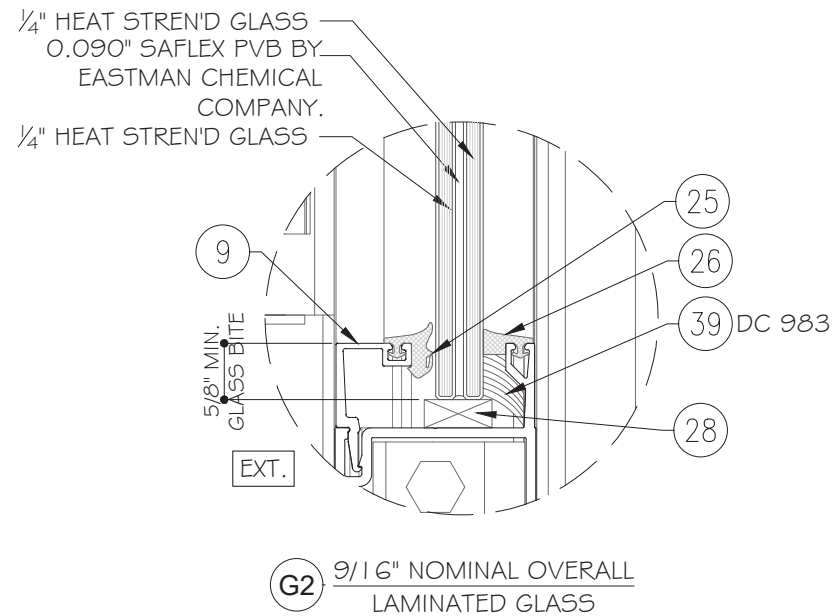
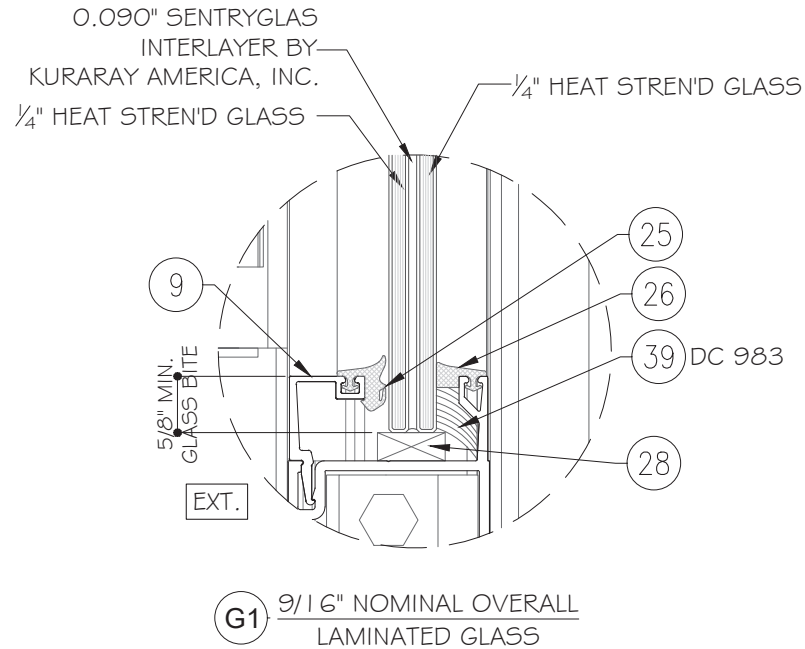


SERIES 9000 ALUMINUM OUTSWING DOOR
LARGE MISSILE IMPACT (L.M.I.)



GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) / 9TH EDITION (2026) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOOR IS DESIGNED TO BE USED AT LARGE MISSILE AREA. SHUTTER IS NO REQUIRED.
- DOORS ARE APPROVED FOR AIR RESISTANCE. SEE ELEVATION FOR WATER RESISTANCE CONDITION.
- 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) / 9TH EDITION (2026) 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.
- HARDWARE CHECKED FOR WIND LOAD IN CLOSED POSITION ONLY; OPERATION PER MANUFACTURER'S INSTRUCTIONS. WINDOWS/DOORS MUST BE CLOSED AND SECURED WHEN A HURRICANE WARNING IS ISSUED.

INSTRUCTIONS:
USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE TYPICAL ELEVATION ON SHEET E1 & E2 FOR MAXIMUM SIZES AND DESIGN LOADS.
- STEP 3: SEE ANCHOR TYPES ON SHEET A1 & A2. SEE SHEET E1 & E2 FOR ANCHOR SPACING.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

NOTE:
GLASS COMPLIES WITH ASTM E1300-16
OR 24 (3 SEC. GUSTS)

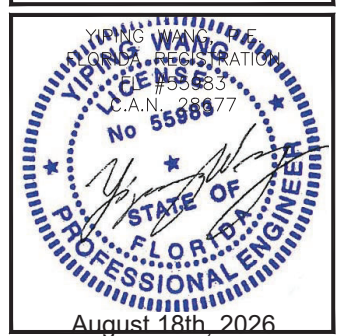
ABBREVIATIONS AND SYMBOLS

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	SECTION NUMBER
W/ - WITH	
W/O - WITHOUT	
VERT. - VERTICAL	
G.B. - GLASS BITE	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 HEREIN 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 #25943



SERIES 9000 OUTSWING DOOR - L.M.I.

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

MCY ENGINEERING, INC.
GLAZING CONSULTANTS


 12701 MIRAMAR PARKWAY #501
 MIRAMAR, FL 33027 P: 305 588 5224
www.MCYEngineering.com mcy@mcyengineering.com

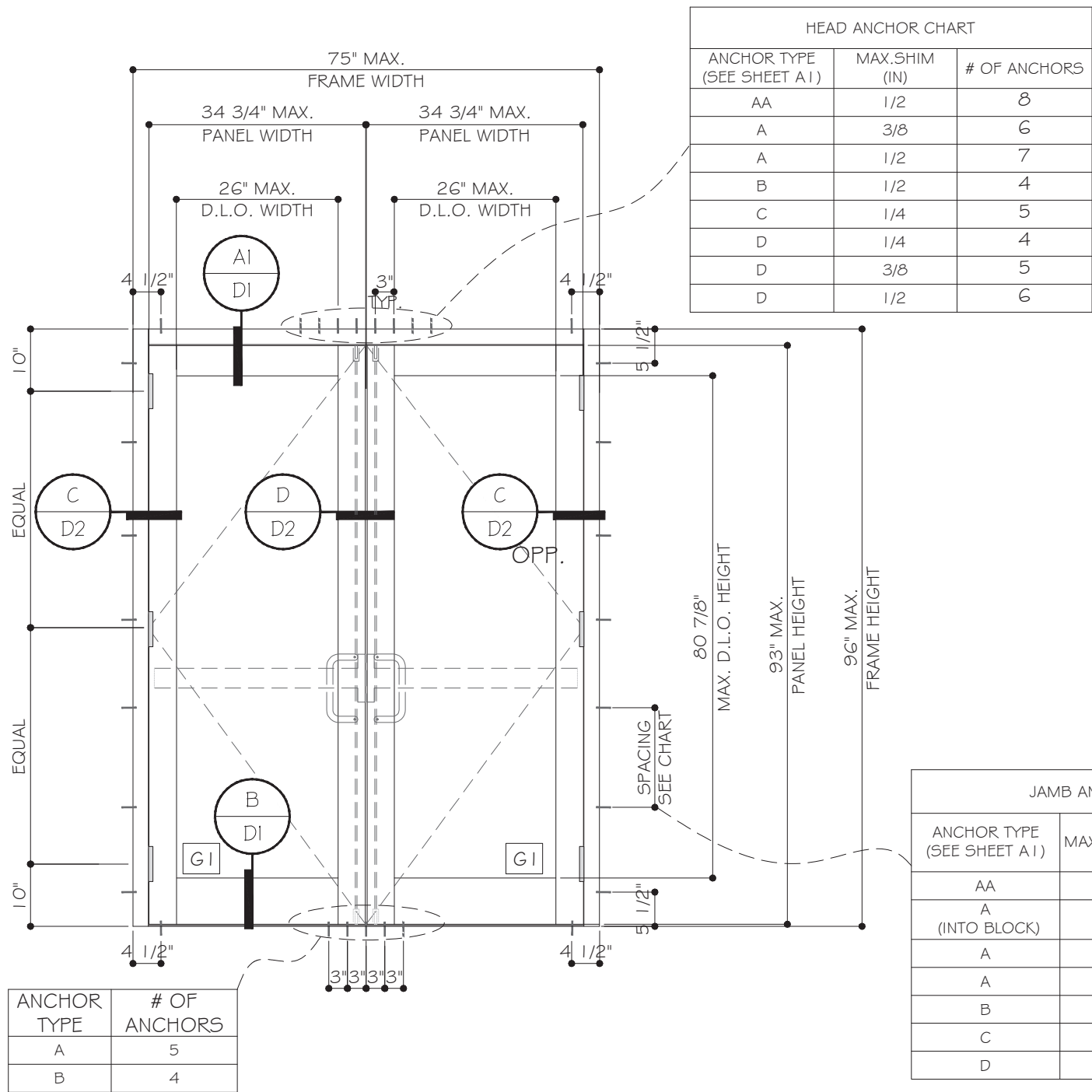
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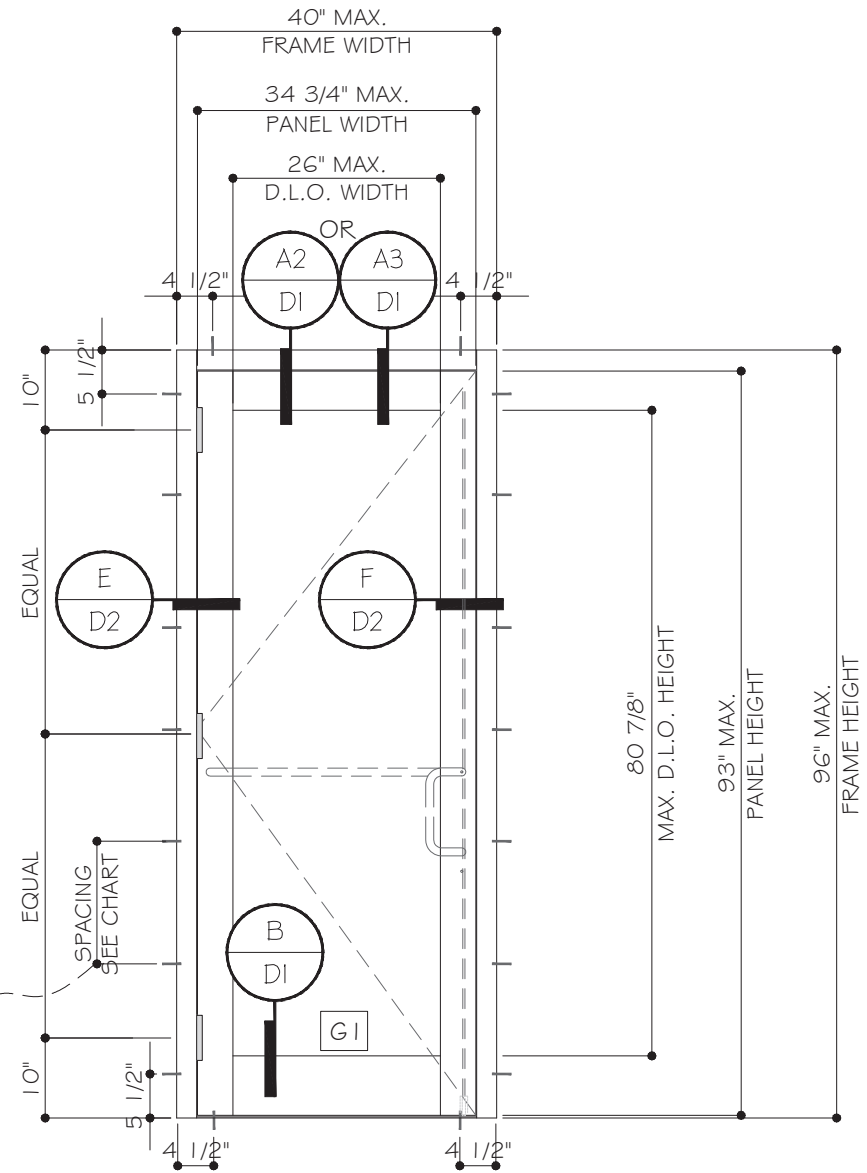
COVER

Sheet No.
OF 16



TYPICAL EXTERIOR ELEVATION (XX)

DESIGN LOADS (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC
+ 120.0 PSF - 150.0 PSF
NOT APPROVED FOR WATER INFILTRATION



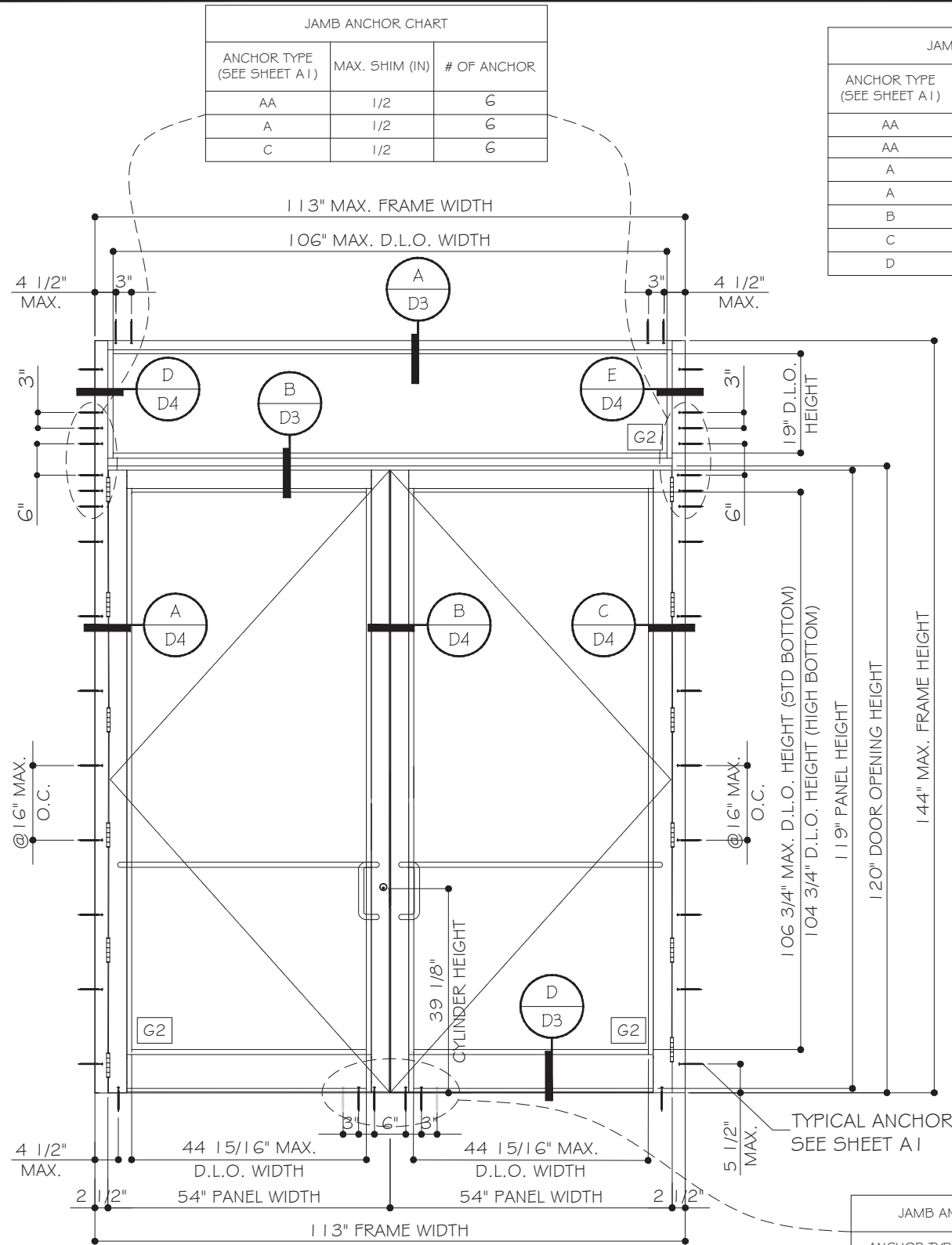
TYPICAL EXTERIOR ELEVATION (X)

DESIGN LOADS (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC
+ 20.0 PSF - 150.0 PSF
APPROVED FOR WATER INFILTRATION

FL #25943

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55988
STATE OF FLORIDA

August 18th, 2026



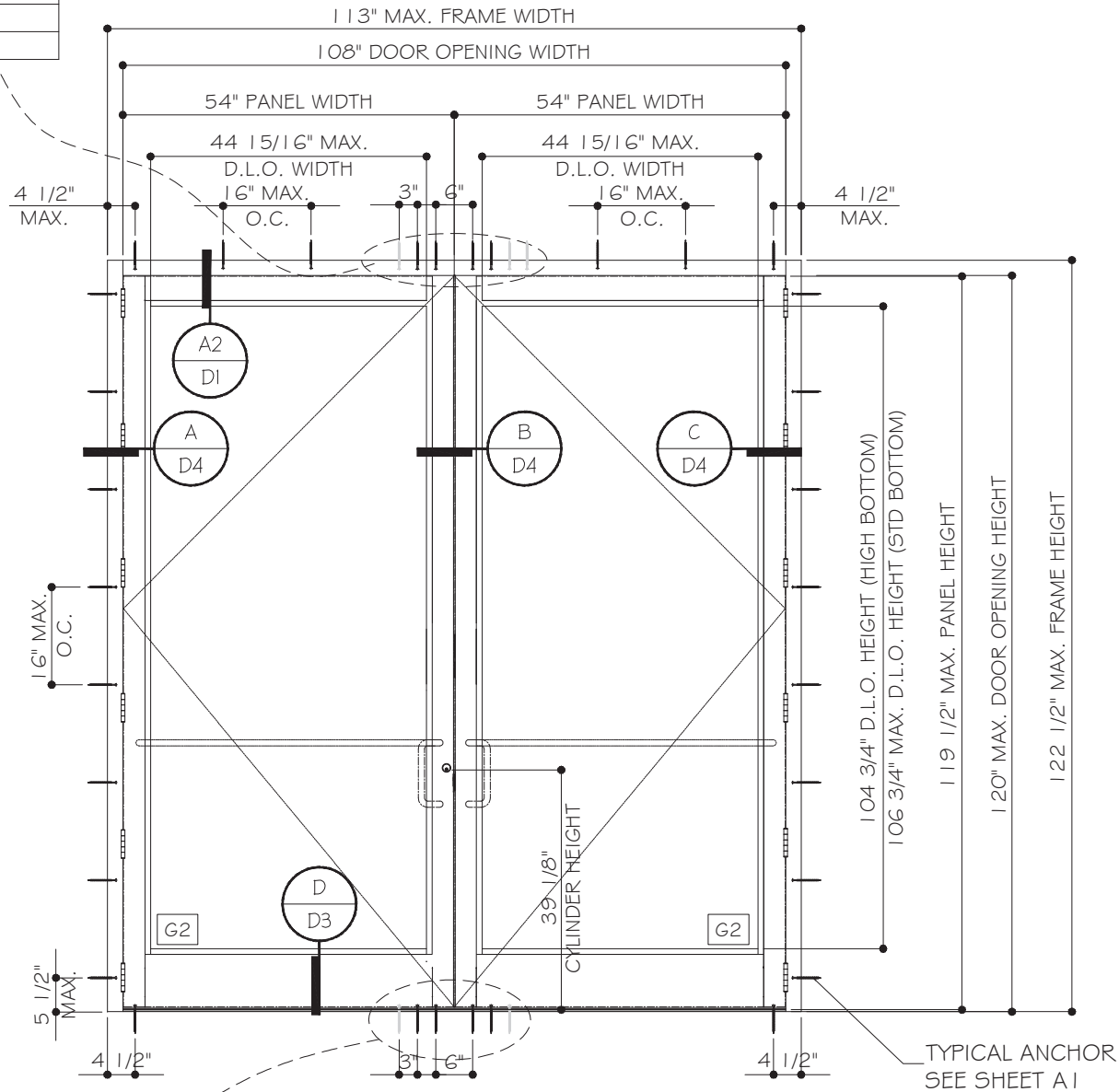
TYPICAL EXTERIOR ELEVATION (XX)

DESIGN LOADS (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC
+55 PSF
-55 PSF

NOTE: NOT APPROVED FOR WATER RESISTANCE.

JAMB ANCHOR CHART		
ANCHOR TYPE (SEE SHEET A1)	MAX. SHIM (IN)	# OF ANCHOR
AA	3/8	6
AA	1/2	7
A	3/8	6
A	1/2	7
B	1/2	4
C	1/4	6
D	1/2	4

JAMB ANCHOR CHART	
ANCHOR TYPE (SEE SHEET A2)	# OF ANCHOR
A	6
B	4



TYPICAL EXTERIOR ELEVATION (XX)

DESIGN LOADS (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC
+55 PSF
-55 PSF

NOTE: NOT APPROVED FOR WATER RESISTANCE.

FL #25943

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SERIES 9000 OUTSWING DOOR - L.M.I.

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Rev. No.	Date	Drawn By	Description
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R3	09.29.2024	James	REV/ISION

Drawn Date
08.17.2026

Scale

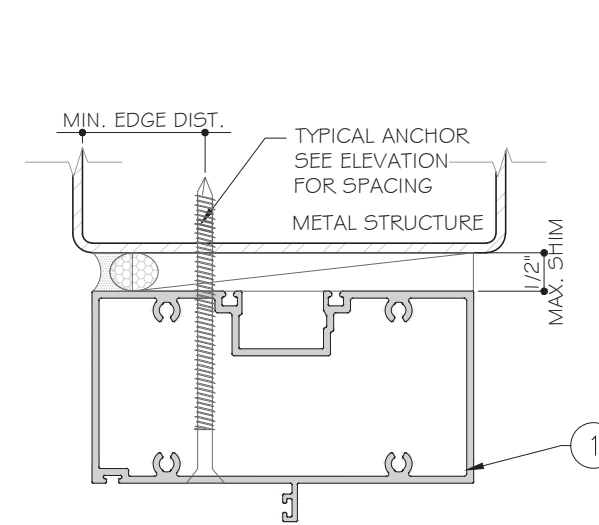
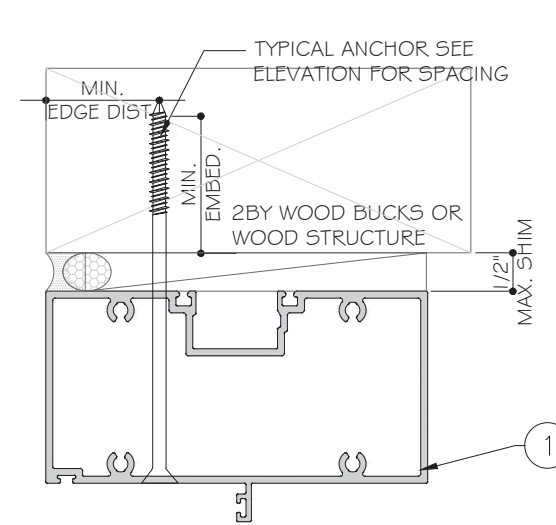
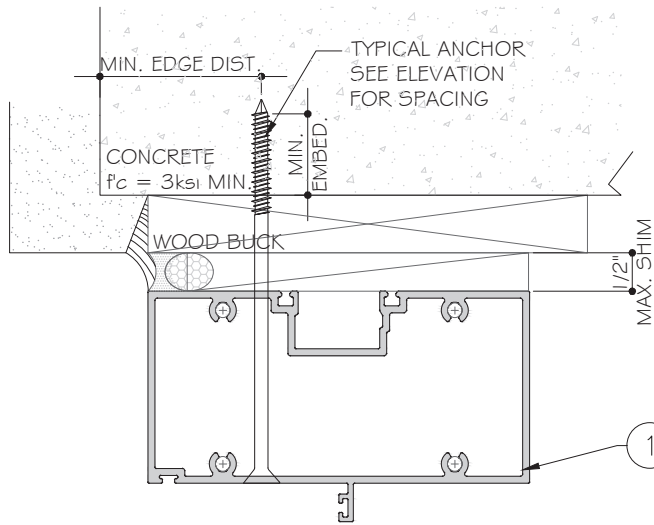
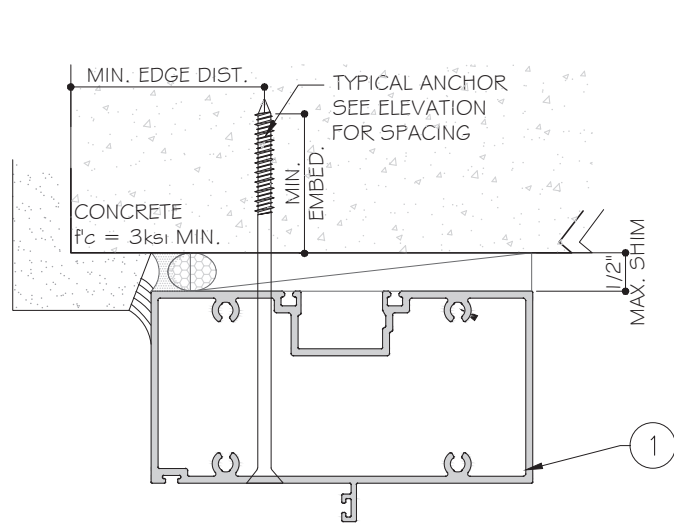
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3 OF 16

E2



ANCHOR TYPES:

TYPE "AA": 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. EMBED PENETRATION. (HEAD/ JAMB)

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

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

TYPE "A": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI) 1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ JAMBS/ SILL)

OR 1 1/4" EMBED INTO HOLLOW BLOCK (JAMB ONLY)
OR 1 3/4" EMBED INTO GROUT FILLED BLOCK (JAMB ONLY)

TYPE "B": 5/16" DIA. ULTRACON ($F_u=120$ KSI, $F_y=92$ KSI) 1 3/4" EMBED INTO MIN. 3515 PSI CONCRETE (HEAD/ JAMBS/ SILL)

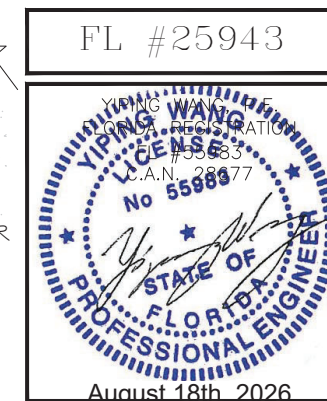
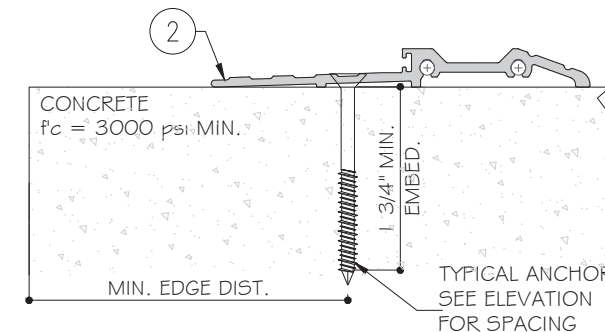
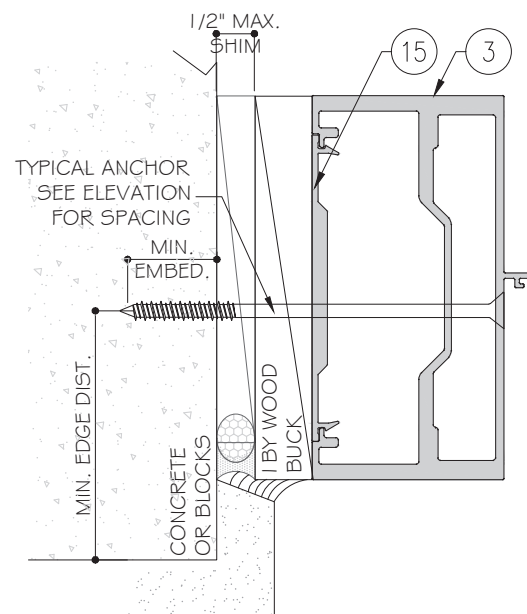
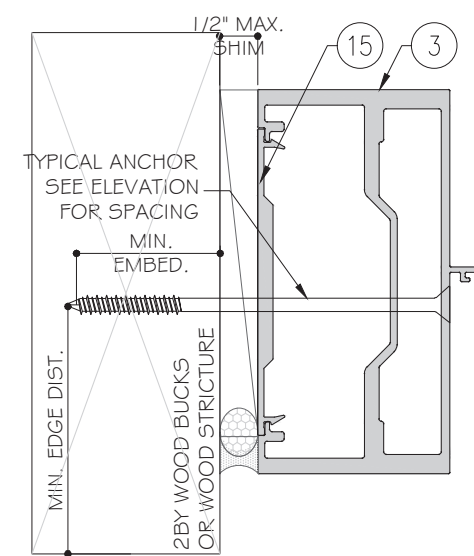
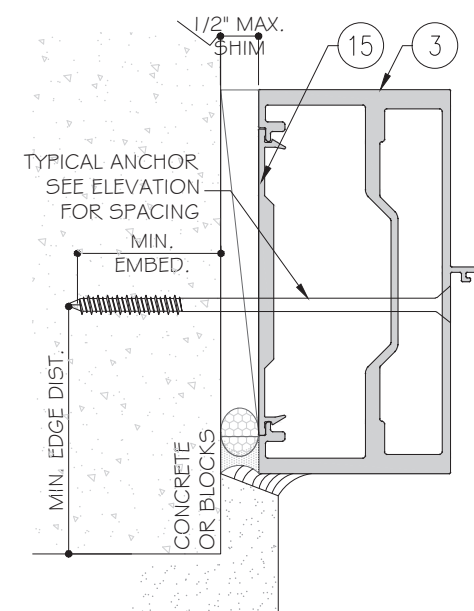
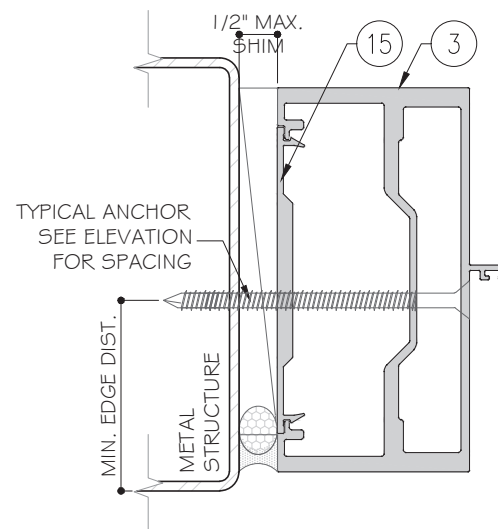
TYPE "C": 1/4" SMS OR TEKS (GRADE 5) ($F_u=120$ KSI, $F_y=92$ KSI) INTO FBC APPROVED MULLIONS OR METAL STRUCTURES. (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE. (HEAD/ JAMBS)

TYPE "D": 5/16" TEKS- SELF DRILLING SCREW (GRADE 5) ($F_u=120$ KSI, $F_y=92$ KSI) INTO FBC APPROVED MULLIONS OR METAL STRUCTURES. (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE. (HEAD/ JAMBS)

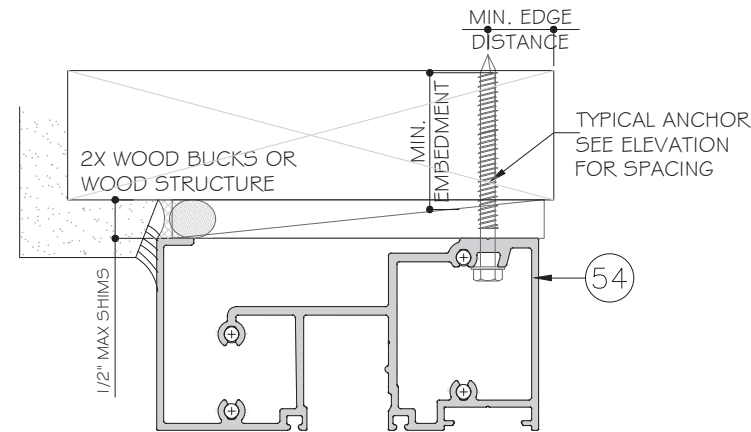
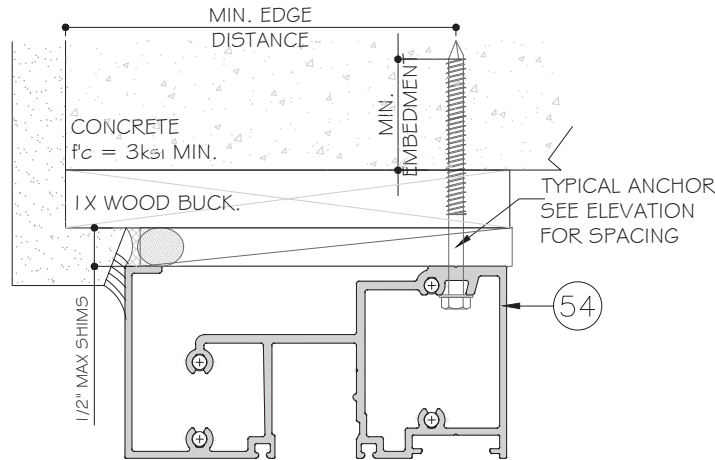
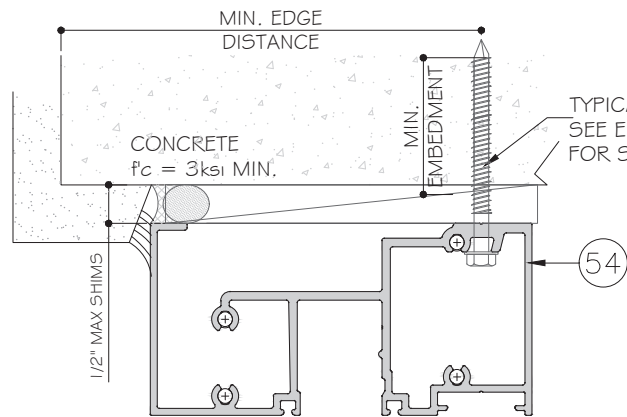
ANCHOR EDGED DISTANCE:
INTO CONCRETE & MASONRY= 2 1/2" MIN.
INTO WOOD STRUCTURE = 1 1/4" MIN.
INTO METAL = 3/4"

CONCRETE $f_c=3$ KSI MIN.
C-90 HOLLOW /FILLED BLOCK AT JAMB $f_m'=2000$ PSI MIN.
WOOD SG=0.55 MIN.
ALUMINUM: 1/8" THK. MIN. (6063-T5. MIN.)
STEEL: 1/6GA THK. MIN. ASTM A653 GRADE 33 ($F_y=33$ ksi) MIN.
(STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED.)

NOTE:
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.



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R4	08.17.2026	James	REVISION
R3	09.29.2024	James	REVISION
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A1			
Sheet No.			
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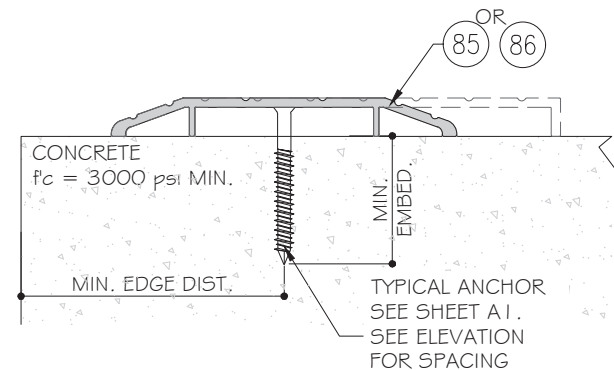
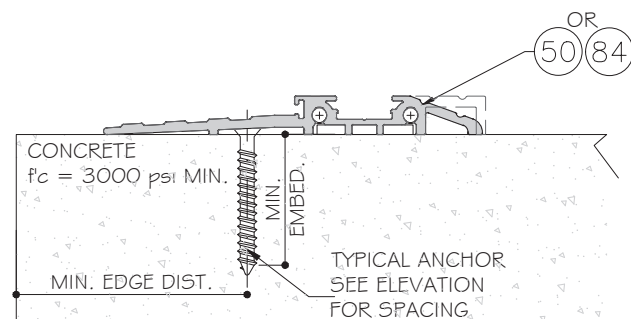
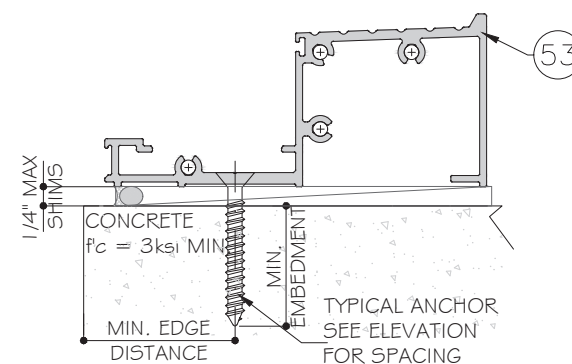
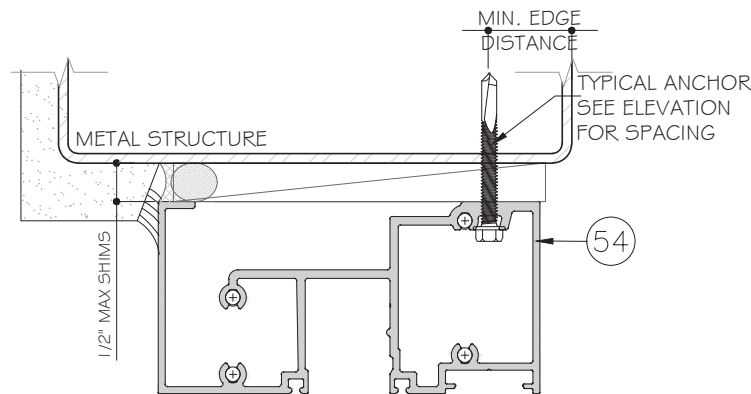
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ANCHOR EDGED DISTANCE:
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 INTO METAL = 3/4"

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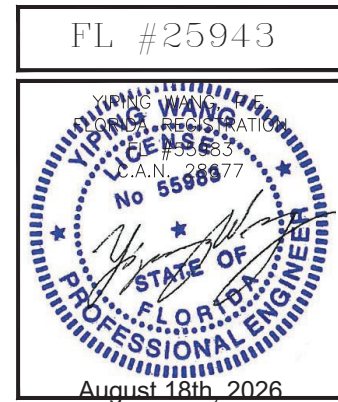
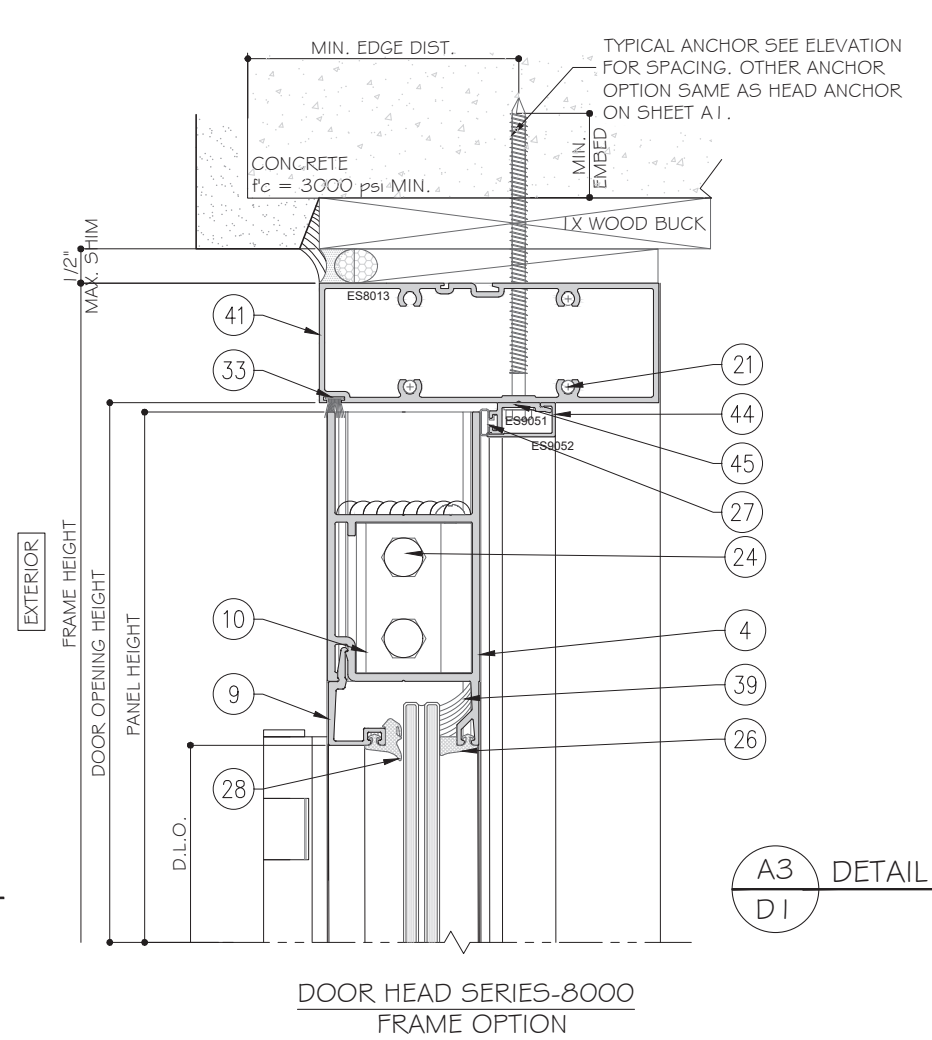
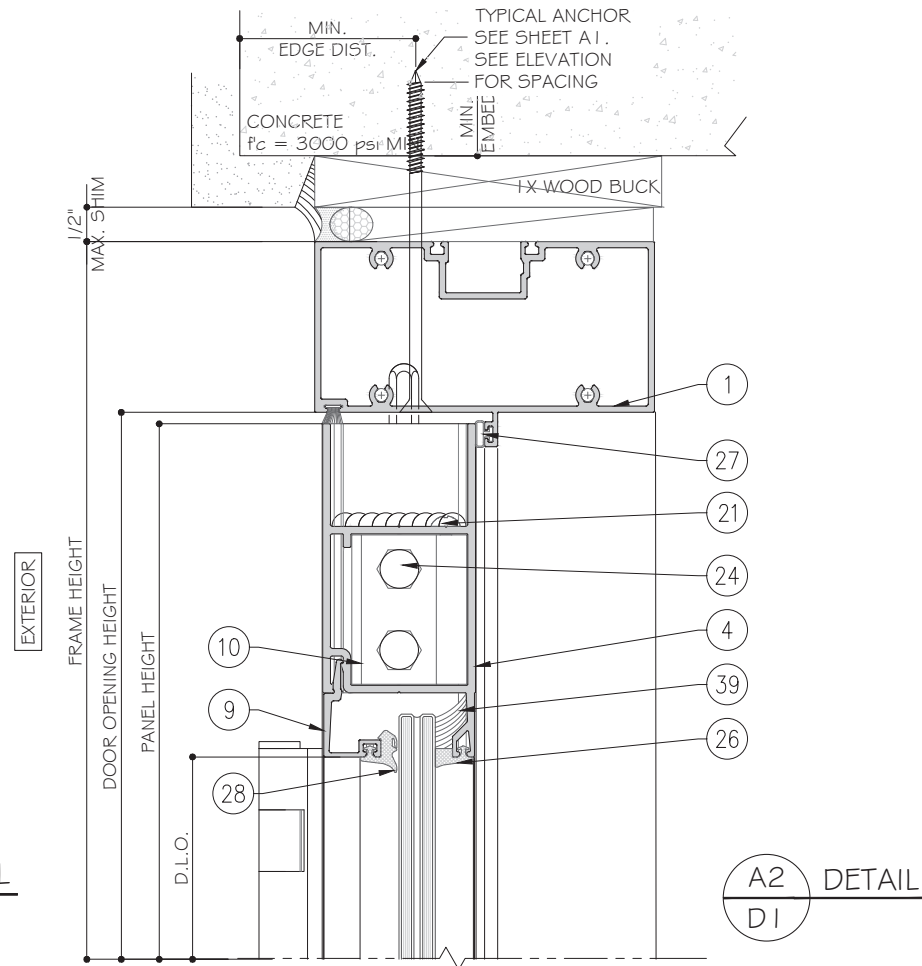
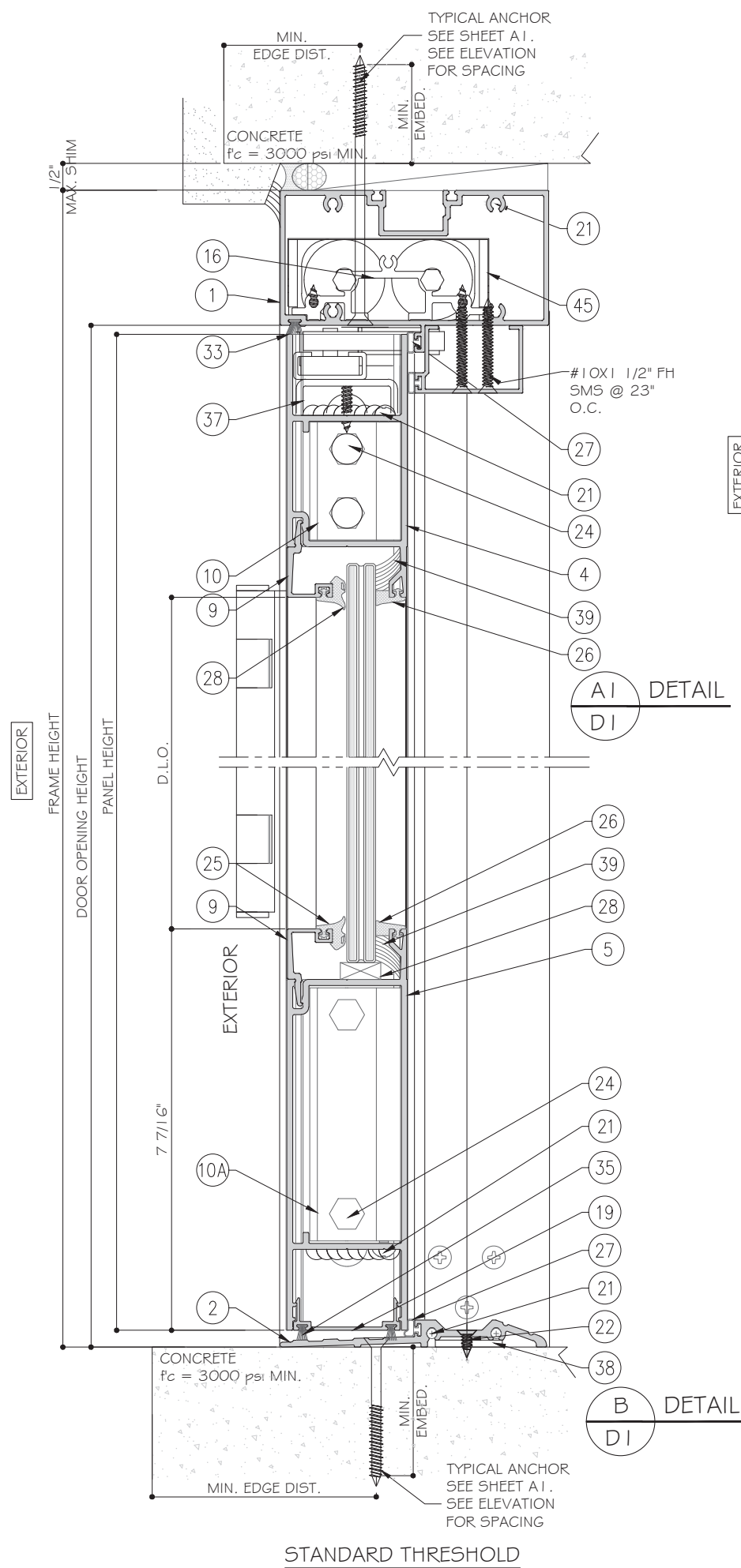
YIPING WANG
 LICENSED PROFESSIONAL ENGINEER
 No 55983
 August 18th, 2026

MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 12781 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027 P: 305 588 5224
 www.MCYEngineering.com mcy@mcyengineering.com

SERIES 9000 OUTSWING DOOR - L.M.I.

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

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R4	08.17.2026	James	REVISION
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Drawn Date
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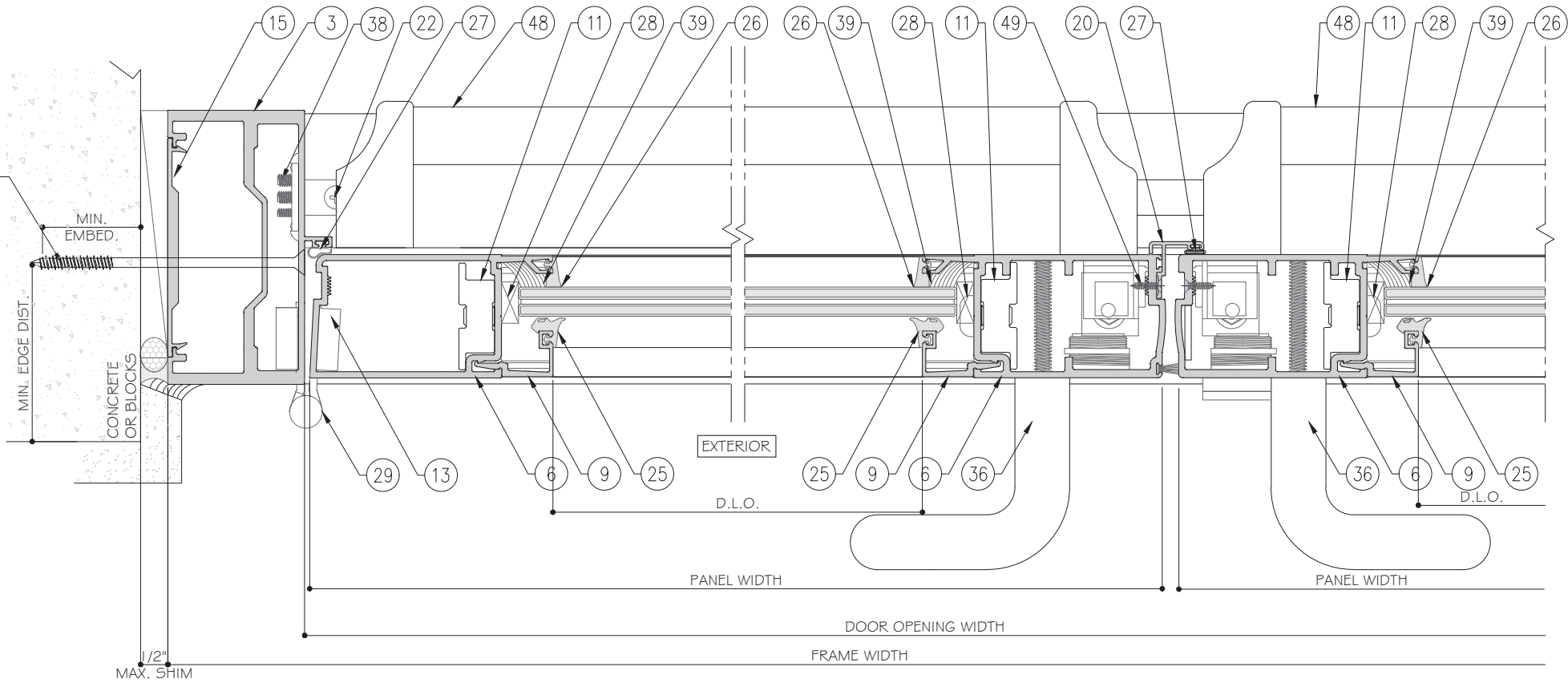
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AD17-20

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6 OF 16

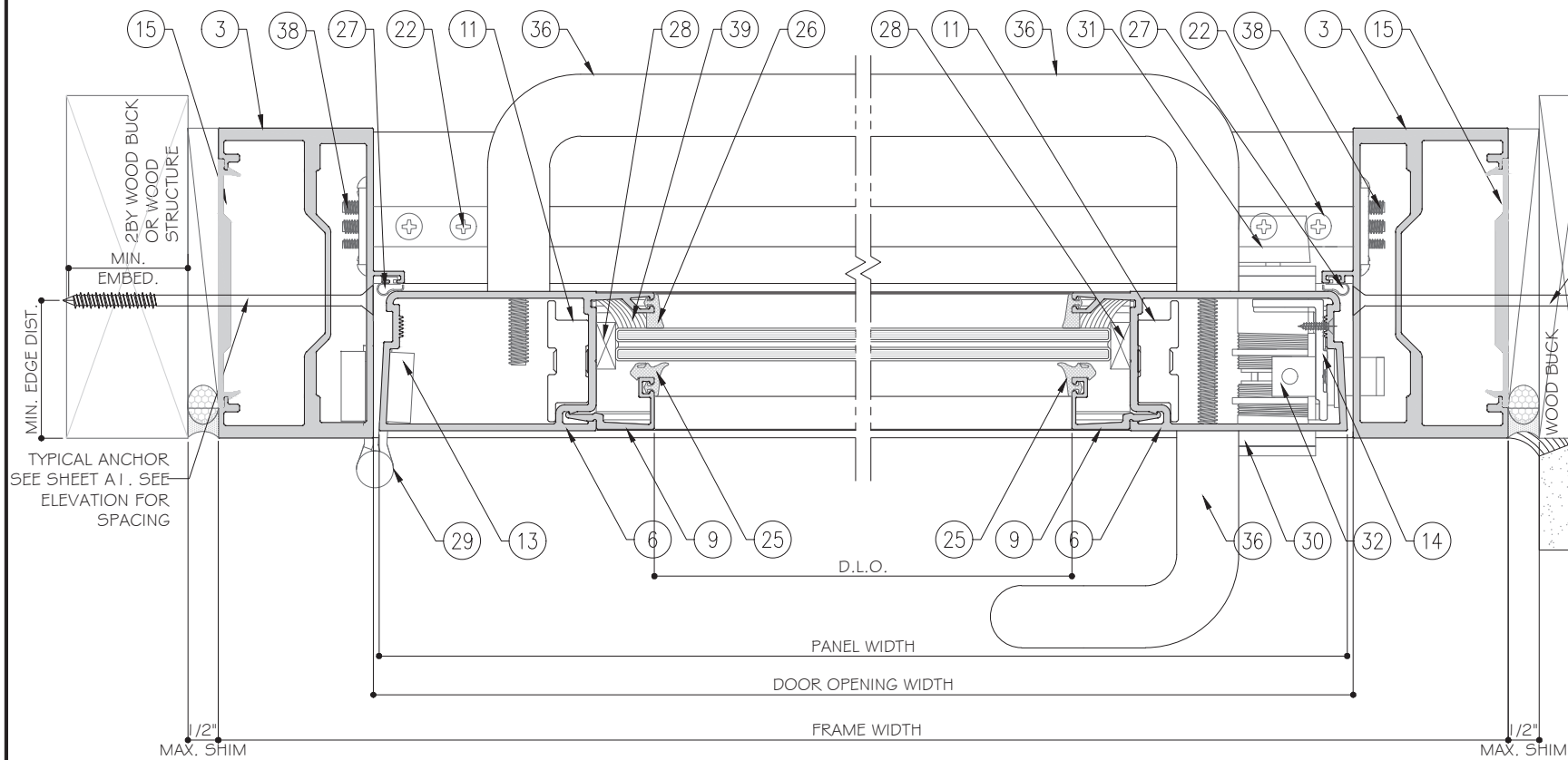
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TYPICAL ANCHOR
SEE SHEET A1. SEE
ELEVATION FOR
SPACING



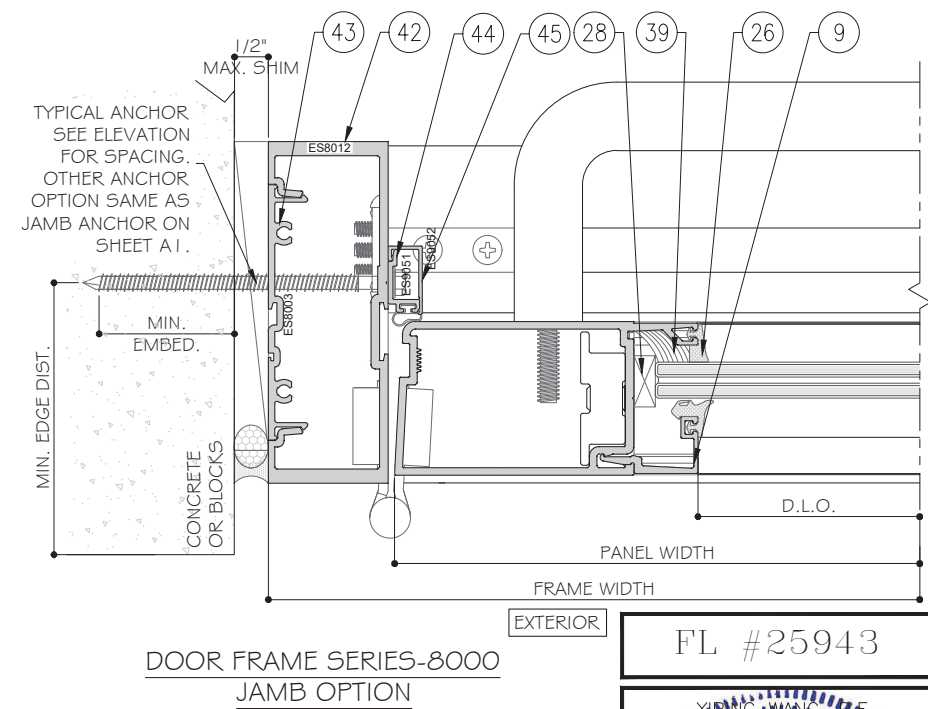
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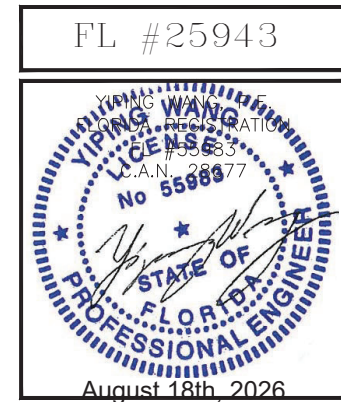
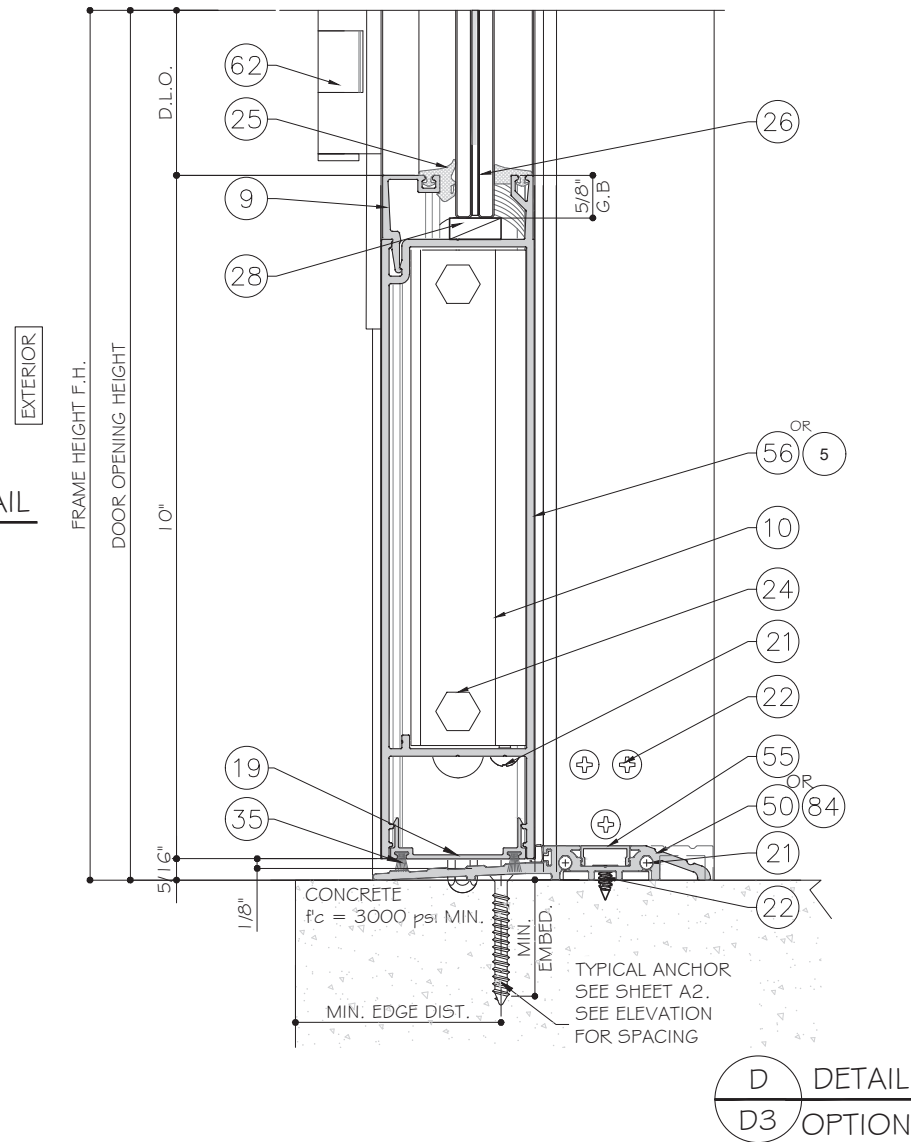
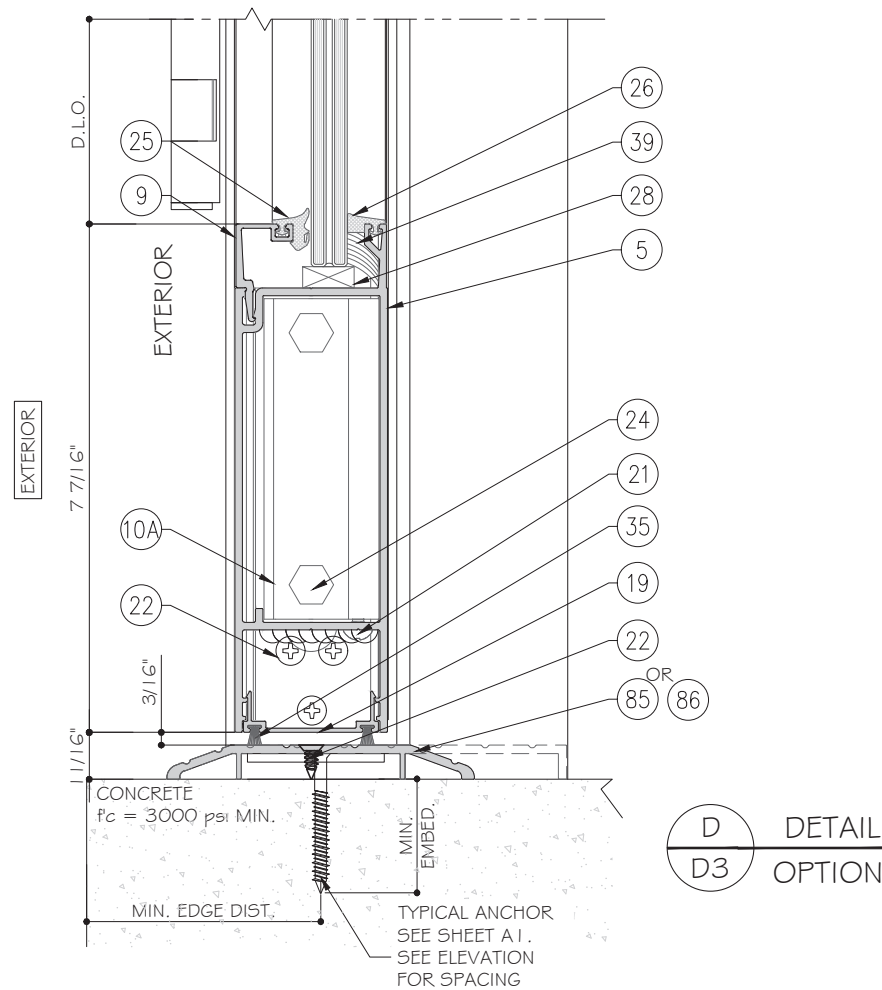
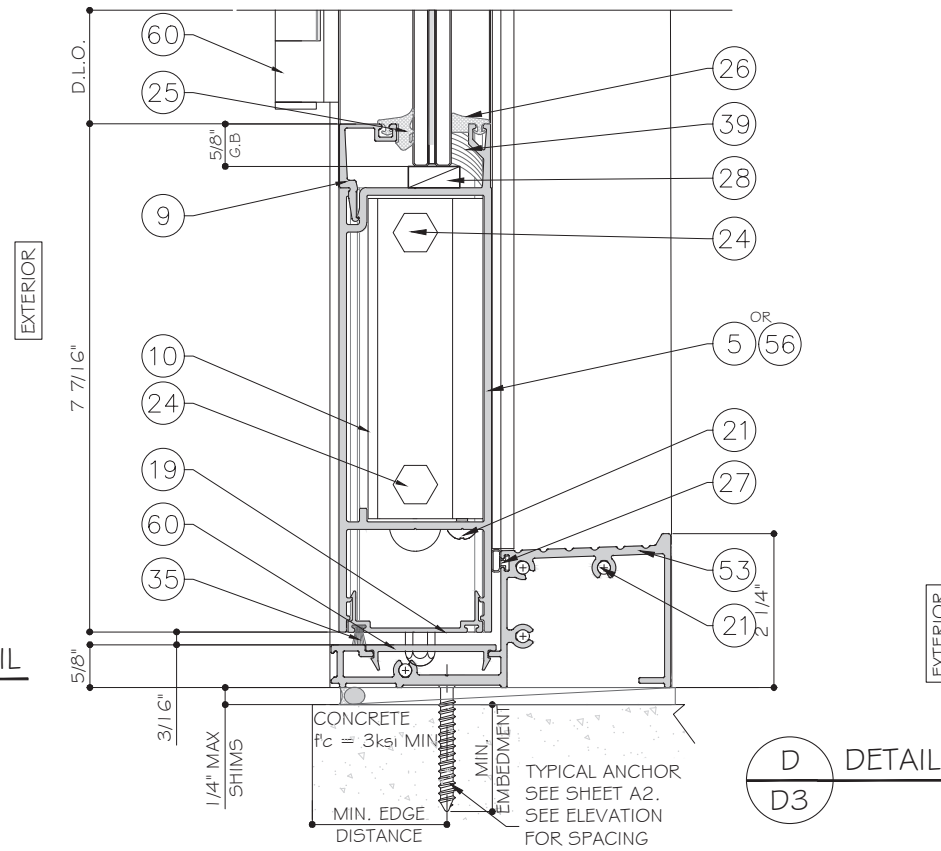
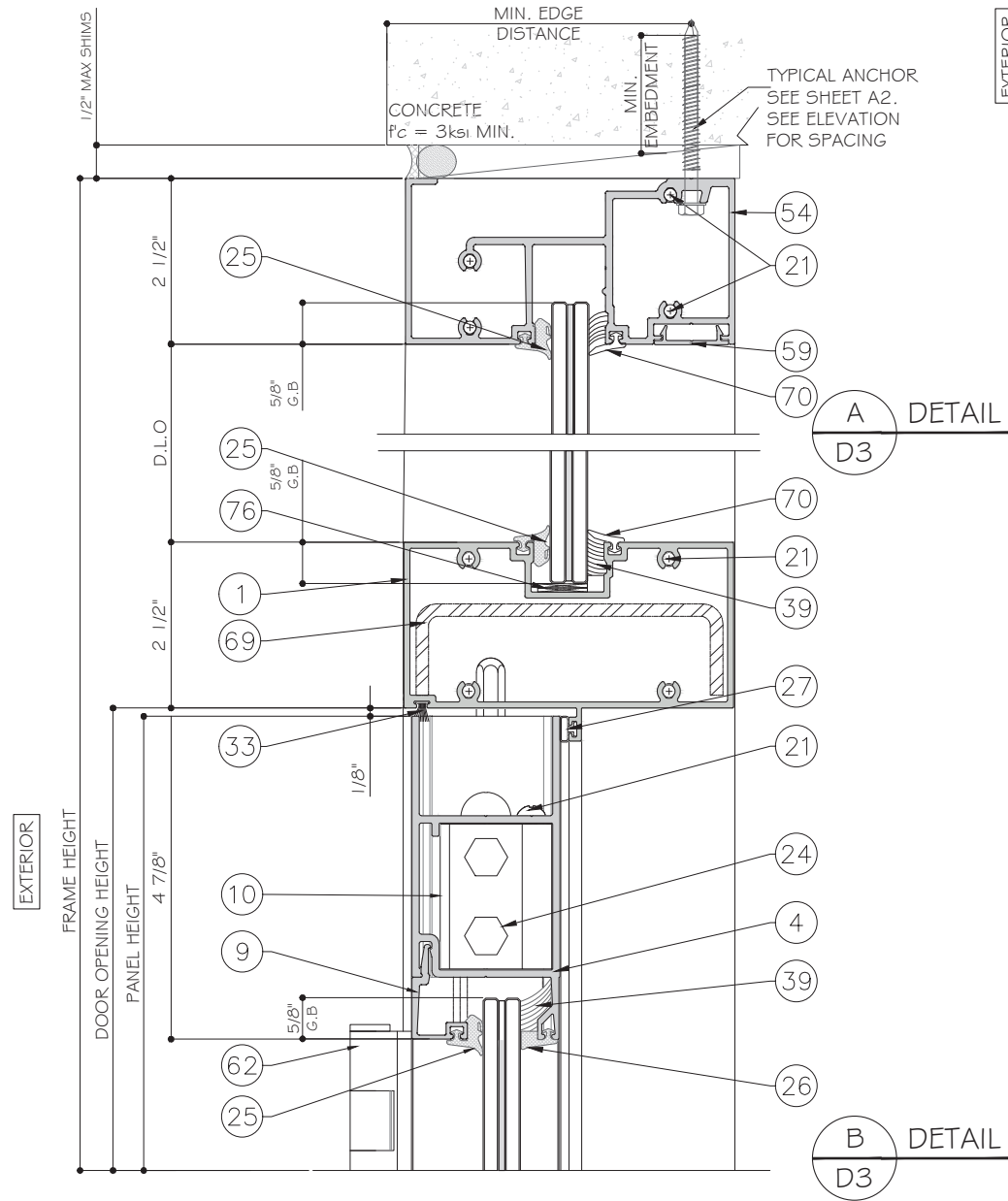
FL #25943

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55983
STATE OF FLORIDA
August 18th, 2026

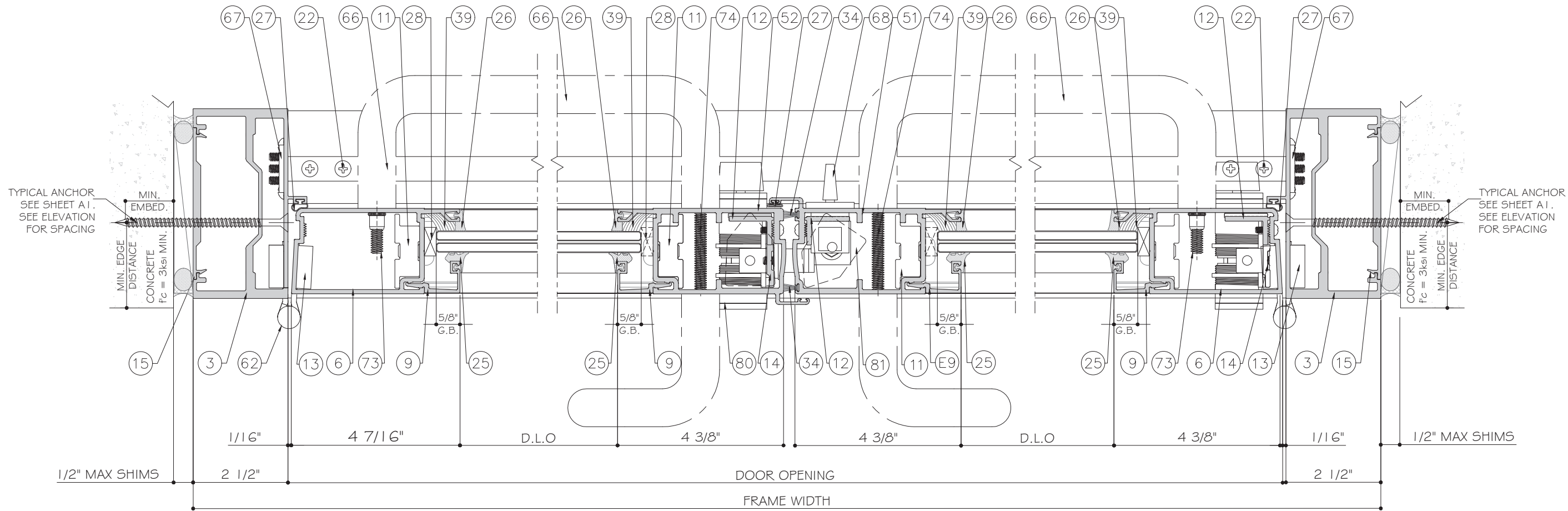
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R3	09.29.2024	James	REV/ISION
Drawn Date 08.17.2026 Scale			
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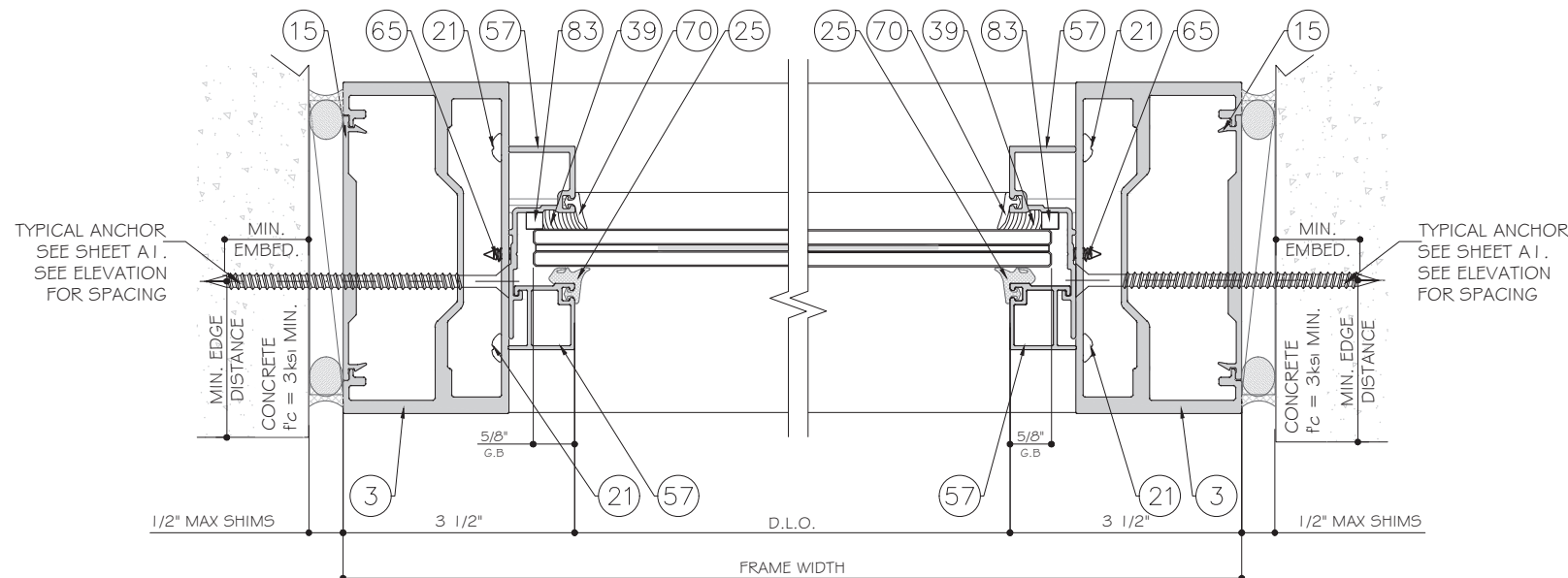
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R4	08.17.2026	James	REV/ISION
R3	09.29.2024	James	REV/ISION
DRAFTING NO. AD17-20			
Sheet No. 8 OF 16			



A
D4

B
D4

C
D4



D
D4

E
D4

FL #25943

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55983
C.A.N. 28477
STATE OF FLORIDA

August 18th, 2026

MCY ENGINEERING, INC.
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Scale

DRAWING NO.
AD17-20

D4

Sheet No.
9 OF 16

HARDWARE I (DESIGN LOAD:+ I 20/- I 50 PSF)

LOCK OPTIONS:

DOUBLE PANEL DOOR (XX):

CONCEALED TWO POINT LOCK SYSTEM WITH ACTIVATING SURFACE MOUNT METALLIC PANIC DEVICE BY "ADAMS RITE" AT 38 1/4" FROM BOTTOM AT ACTIVE PANEL.
WITH (3) 1/4"-20 X 5/16" CH MS

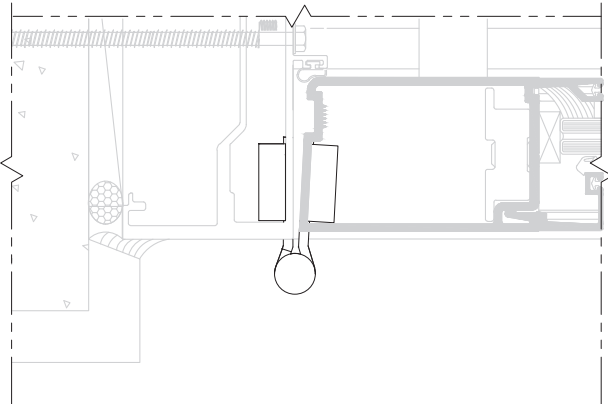
CONCEALED TWO POINT LOCK SYSTEM WITH ACTIVATING SURFACE MOUNT METALLIC PANIC DEVICE AT INACTIVE PANEL AT 40" FROM BOTTOM WITH (2) 1/4"X 1" HHSD
(2) 8-32 X 1/4" SOCKET HEAD MS

SURFACE MOUNT PULL HAND AT 38 1/4" FROM BOTTOM WITH (2) 1/4"-20 X 3" THREADED ROD WITH DECORATIVE NUT.

HINGES FOR SINGLE AND DOUBLE DOOR:

(3) 4 X 4 3/4" ST. STEEL BALL BEARING BUTT HINGES PER PANEL BY 'REGENT', LOCATED AT 10" FROM TOP & BOTTOM, ONE AT MIDDLE, AND FASTENED TO DOOR FRAME AND LEAF STILE WITH (4) #12-24 X 1/2" FH MACHINE SCREWS

(1) 1 1/4"X9"X3/8" ALUM. HINGE REINFORCING (ES-9011) INSIDE PANEL HINGE STILE AND FRAME JAMB HINGE LOCATION.



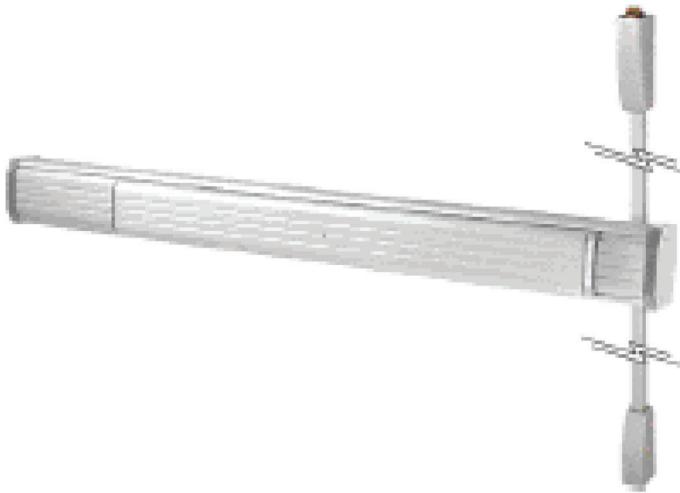
SINGLE PANEL DOOR (X):

OPTION I :

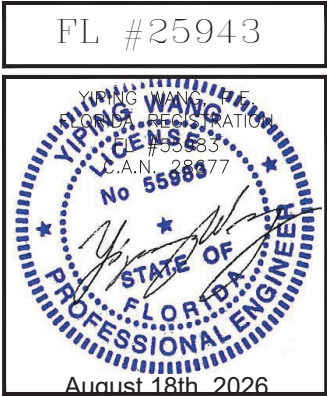
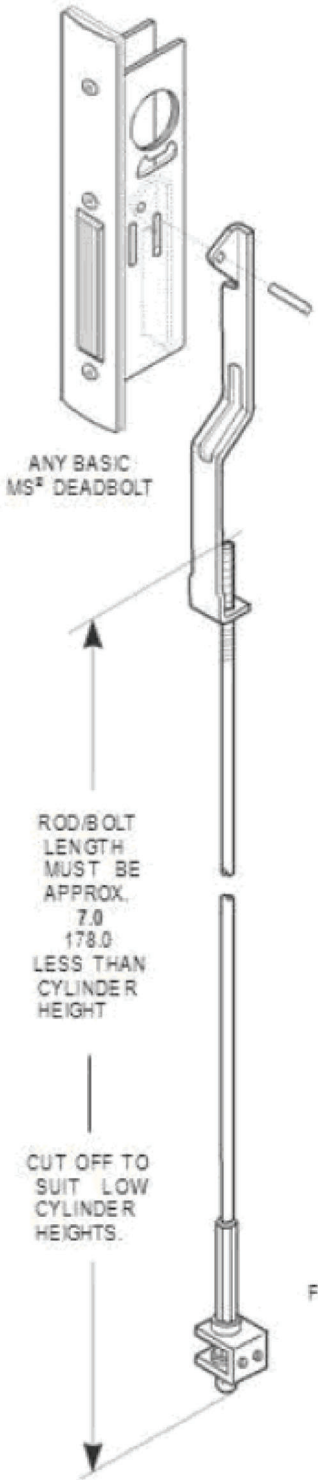
CONCEALED THREE POINT LOCK SYSTEM BY "ADAMS RITE" WITH 8 PLY HOOK LOCK KEY OPERATOR ON THE EXTERIOR AND THUMB TURN ON THE INTERIOR
AT 38 1/4" FROM BOTTOM AT ACTIVE PANEL
WITH (2) 10"X1" FH SMS

SURFACE MOUNT ALUMINUM PULL HANDLE ON THE EXTERIOR AND SURFACE MOUNT METALLIC PUSH BAR ON THE INTERIOR AT 38 1/4" FROM THE BOTTOM
PUSH BAR AT 44 1/2" FROM BOTTOM
WITH (1) 1/4-20 X 2 7/8" CH MS
(1) 1/4-20 X 1 1/8" CH MS
(1) 1/4-20 X 3" THREADED ROD WITH DECORATIVE NUT
(2) 1/4-20 X 5/16" SOCKET SET SCREW

(1) 10" LG EXTRUDED ALUM. LOCK REINFORCEMENT INSIDE THE LOCK STILE AT LOCK LOCATION WITH (3) 8-32 X 1/2" PH MS



PANIC EXIT DEVICE



MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305 588 5224
www.MCYEngineering.com mcy@mcyengineering.com

M

C

Y

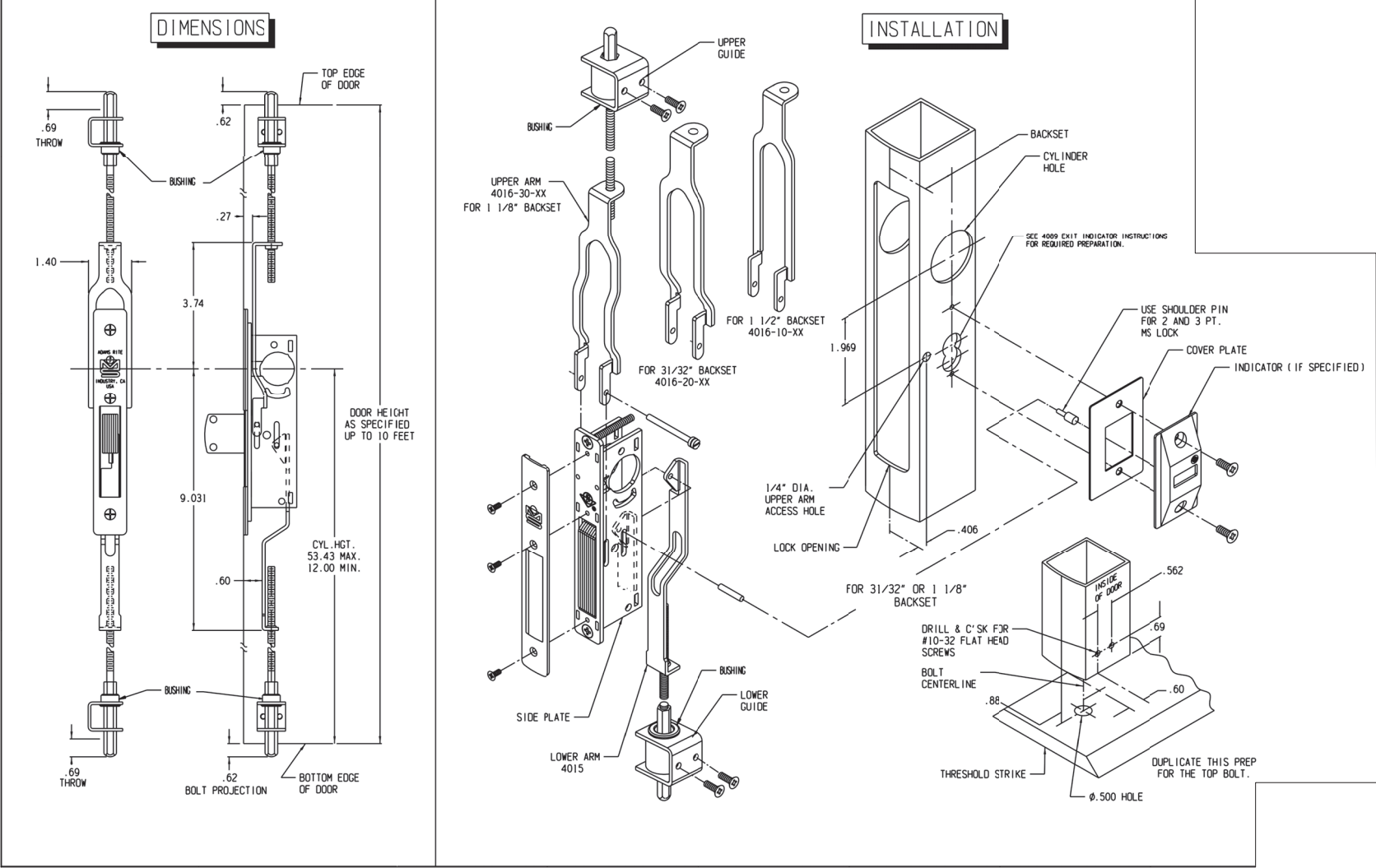
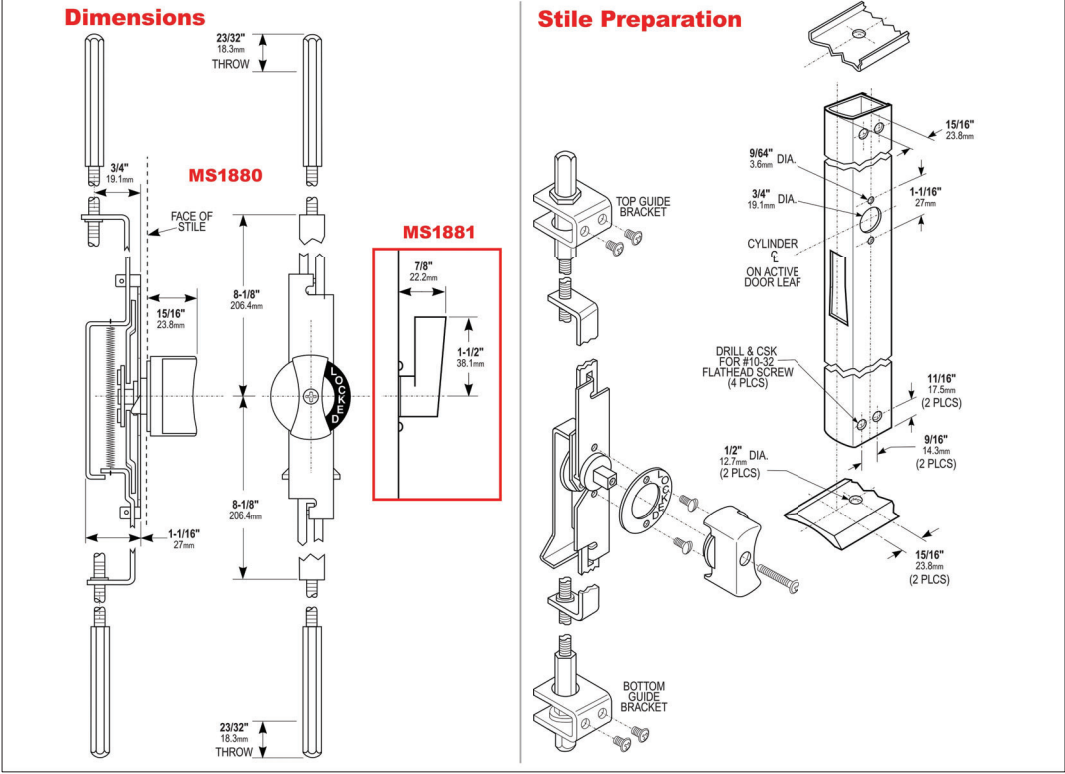
SERIES 9000 OUTSWING DOOR - L.M.I.

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

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HARDWARE 2 (DESIGN LOAD: +55/-55 PSF)

PART	DESCRIPTION	DISTANCE	LOCATION	METHOD OF ATTACHMENT
MS1880-04-G82	TWO-WAY BOLT LOCK	N/A	ASTRAGALS	#10 F.H. M.S.
BARRA 4016-30-02	HEADER BOLT	N/A	ASTRAGALS	#10 F.H. M.S.
4015-18	THRESHOLD BOLT	N/A	ASTRAGALS	#10 F.H. M.S.
TDK-1880 TALL DOOR KIT	TDK-1880 TALL DOOR KIT	N/A	ASTRAGALS	N/A
CYLINDER THUMBTO CH-112	CYLINDER THUMBTO CH-112	39 3/4" FROM TOP OF THRESHOLD	ACTIVE ASTRAGAL	N/A
-	FACE PLATE	39 3/4" FROM TOP OF THRESHOLD	ACTIVE ASTRAGAL	N/A
HINGE A793	BUTT HINGE	6 PER DOOR LEAF. EQUAL DISTANCE.	FRAME	#12 F.H. M.S.



FL #25943

YIPING WANG
Professional Engineer
No 55983
August 18th, 2026

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305 588 5224
www.MCYEngineering.com mcy@mcyengineering.com

SERIES 9000 OUTSWING DOOR - L.M.I.
ES WINDOWS, INC
10653 NE Quaybridge Ct. Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R4	08.17.2026	James	REVISION
R3	09.29.2024	James	REVISION
Drawn Date			Scale
08.17.2026			
Drawing No.			AD17-20
HWR			
Sheet No.			11 OF 16

1 DOOR HEADER
ES-9012 ALUM. 6063-T6

2 STANDARD THRESHOLD
ES-9014 ALUM. 6063-T6

8 MEETING STILE- ACTIVE LEAF
ES-9007 ALUM. 6063-T5

9 GLASS STOP
ES-9004 ALUM. 6063-T5

3 DOOR JAMB
ES-9013 ALUM. 6063-T6

4 PANEL TOP RAILS
ES-9001 ALUM. 6063-T5

5 PANEL BOTTOM RAILS
ES-9002 ALUM. 6063-T6

6 HINGE / LOCK STILE
ES-9003 ALUM. 6063-T5

7 MEETING STILE- INACTIVE LEAF
ES-9006 ALUM. 6063-T5

10 CORNER BLOCK
ES-9008 ALUM. 6063-T5

11 CORNER PLATE
ES-9009 ALUM. 6063-T5

12 SUPPORT ANGLE
ES-9010 ALUM. 6063-T5

14 LOCK BACKUP PLATE REINF.
ES-9020 ALUM. 6063-T5

17 CLOSER DOOR STOP
ES-9022 ALUM. 6063-T5

15 JAMB FILLER
ES-9016 ALUM. 6063-T6

19 DOOR SWEEP
ES-9005 ALUM. 6063-T5

41 HEAD OPTION S-8000
ES-8005 ALUM. 6005-T5

42 JAMB OPTION S-8000
S-8012 ALUM. 6005-T5

43 JAMB FILLED OPTION S-8000
ES-8003 ALUM. 6005-T5

14 LOCK BACKUP PLATE
ES-9020 ALUM. 6063-T5

44 GLASS STOP OPTION S-8000
ES- ALUM. 6063-T5

45 GLASS STOP COVER OPTION S-8000
ES- ALUM. 6063-T5

50 ES-9000-030
THRESHOLD ALUM.6063-T6

FL #25943

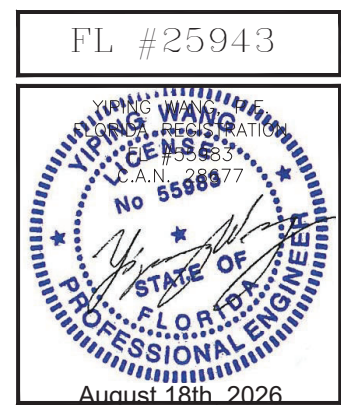
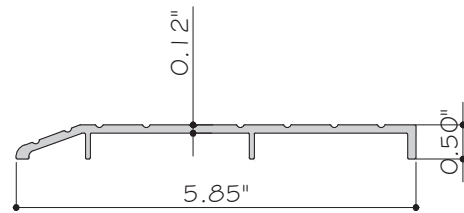
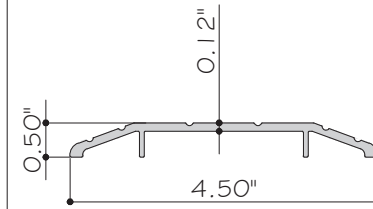
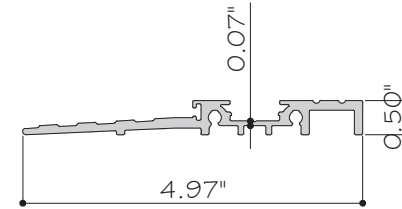
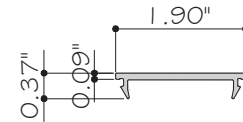
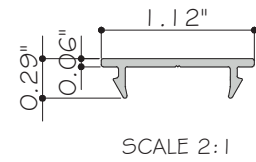
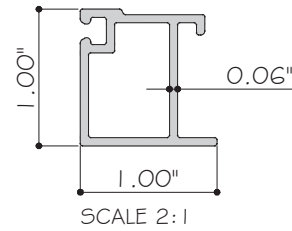
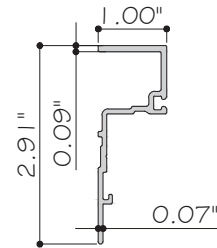
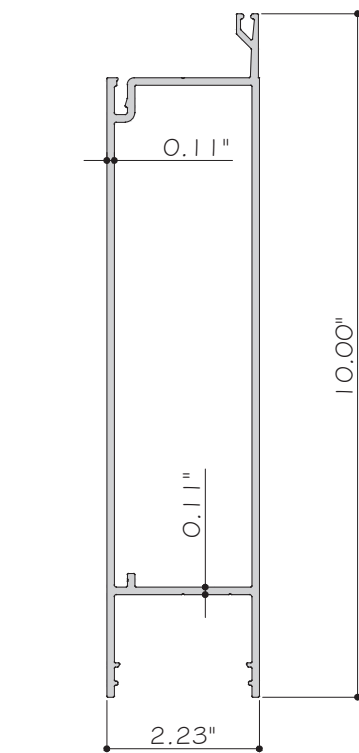
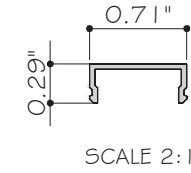
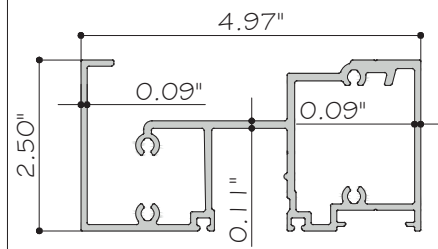
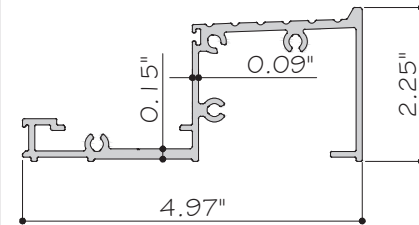
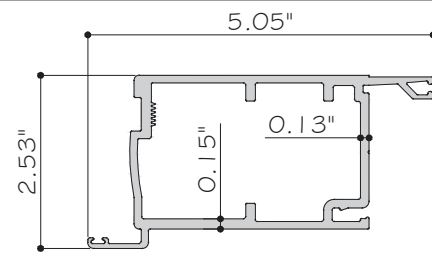
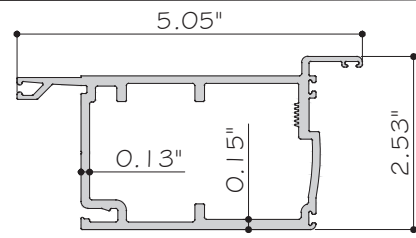
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SERIES 9000 OUTSWING DOOR - L.M.I.

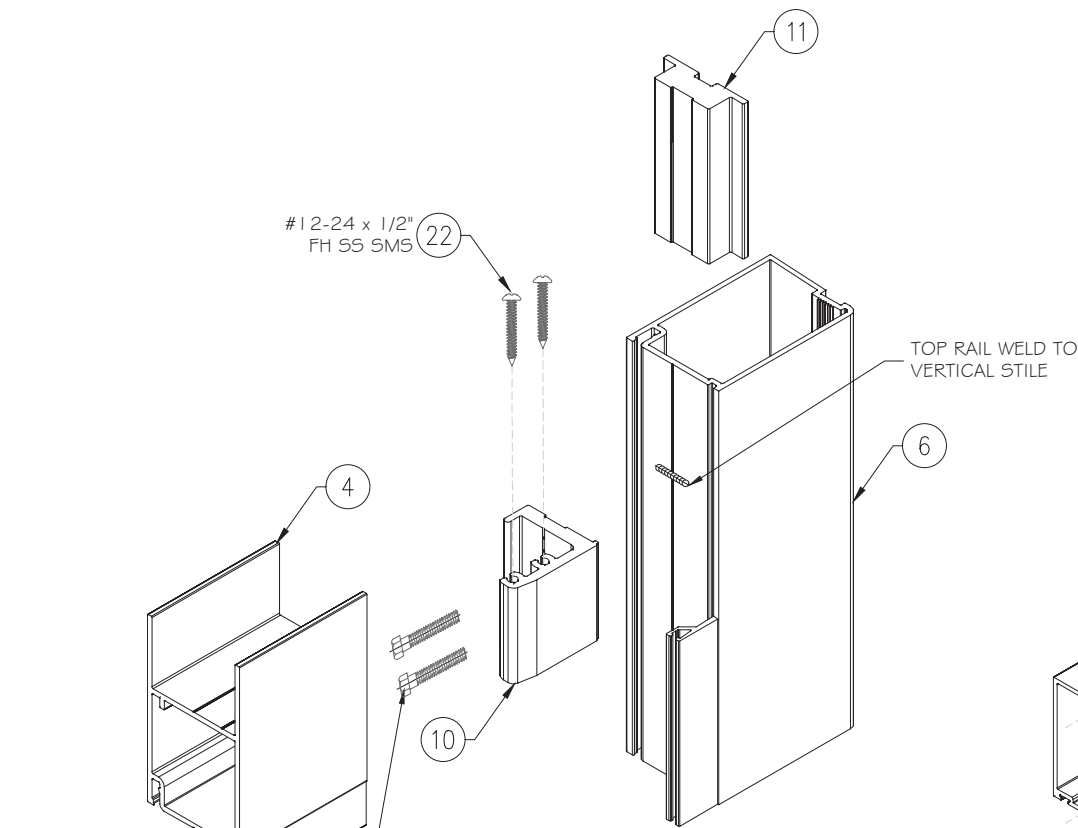
ES WINDOWS, INC
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Rev.	Date	Drawn By	Description
R4	06.17.2026	James	REVISION
R3	09.29.2024	James	REVISION

Drawn Date: 08.17.2026 Scale:
Drawing No. **AD17-20**
PARTS
Sheet No. **12 OF 16**

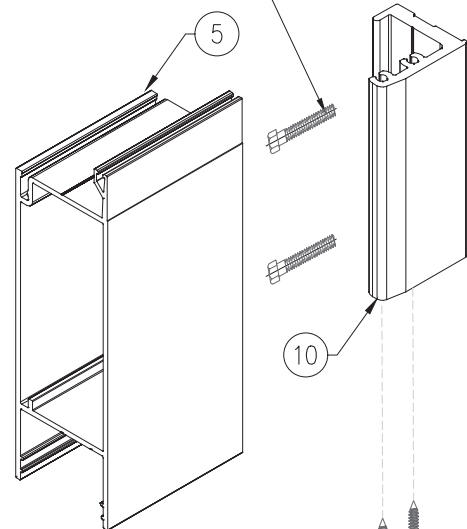


 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305 588 5224 www.MCYEngineering.com mcy@mcyengineering.com					
SERIES 9000 OUTSWING DOOR - L.M.I. ES WINDOWS, INC 10653 NE Quaybridge Ct. Miami, FL 33138 TEL. (305) 624-7775					
					REVISION
			R4	06.17.2024	Jones
			R3	09.29.2024	Jones
			Rev. No.	Date	Description
Drawn Date 08.17.2026			Scale		
DRAWING NO.					
AD17-20					
PARTS					
Sheet No.					
13 OF 16					



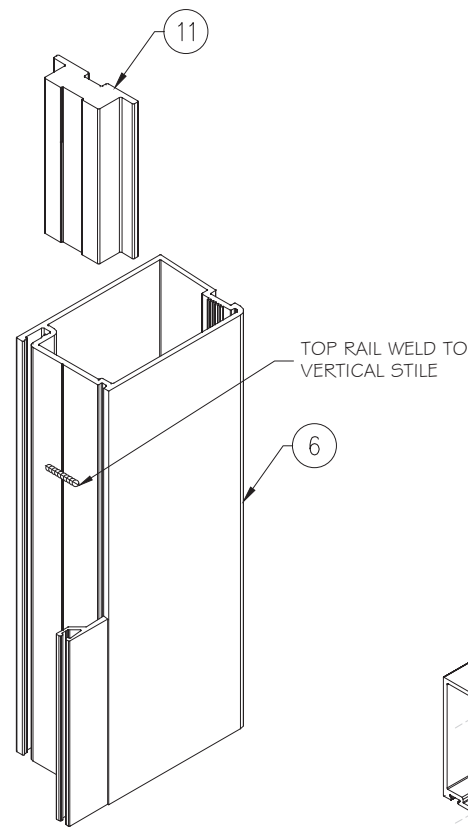
DOOR LEAF TOP CORNER

3/8"-16 x 1"
HEX BOLT

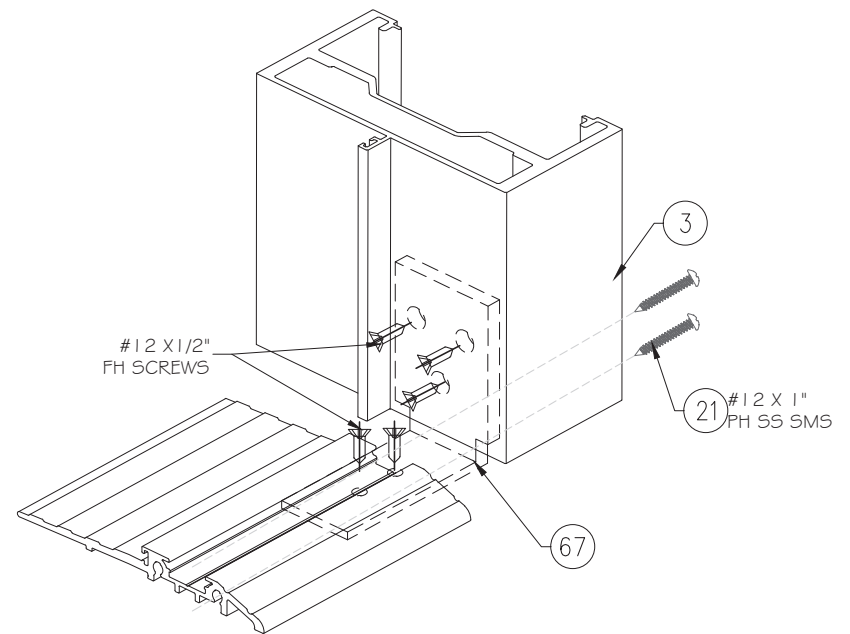
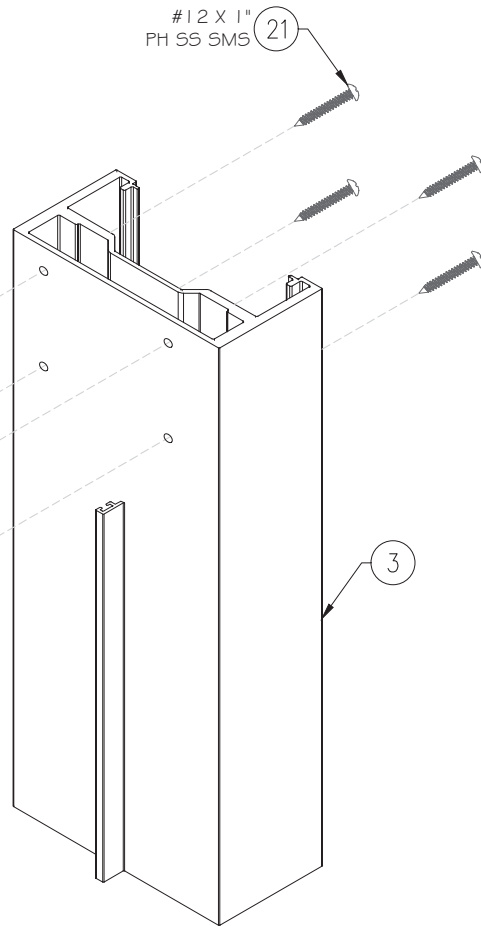
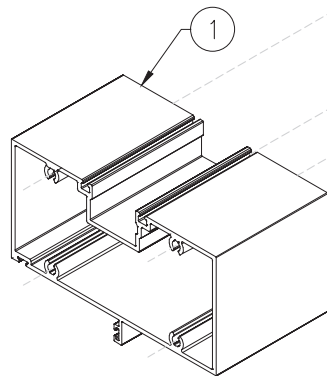


DOOR LEAF BOTTOM CORNER

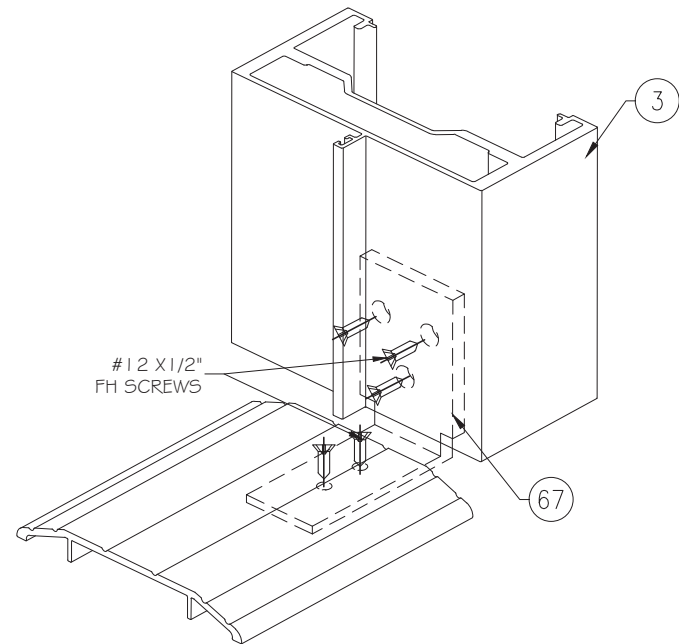
#12-24 x 1/2"
FH SS SM5



FRAME TOP CORNER



THRESHOLD CORNER



THRESHOLD CORNER

FL #25943

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55988
STATE OF FLORIDA

August 18th, 2026