

ES WINDOW INC.
ES-PGD3040 GARAGE DOOR
LARGE MISSILE IMPACT

GENERAL NOTES:

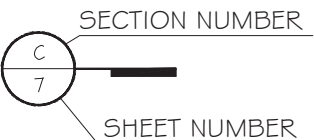
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS ARE RATED FOR LARGE MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. FOR ABOVE 30 FT OF GRADE, SMI TO BE USED. IMPACT SHUTTERS ARE NOT REQUIRED.
- DOORS ARE NOT APPROVED FOR 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 8TH EDITION FLORIDA BUILDING CODE (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.
- 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.
- 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.

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 OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 TO E3 FOR TYPICAL DOOR ELEVATION. SEE SHEET G1 FOR GLASS OPTIONS.
- STEP 3: SEE SHEET A1 & A2 FOR ANCHOR OPTIONS. SEE SHEET E4 FOR NUMBER OF ANCHORS REQUIRED.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

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

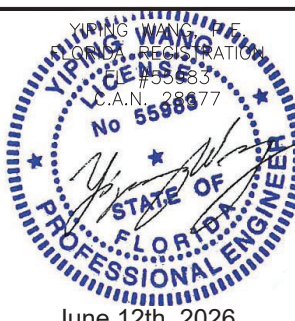


LIMITATIONS OF USE

- 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 ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT

FLORIDA APPROVAL

FL # 41580.1



ES-PGD3040 GARAGE DOOR - LMI

E.S. WINDOWS, INC.
10653 NE QUAYBRID GE CT.

MIAMI, FL 33138

TEL. (305) 624-7775

IMCY ENGINEERING, INC.
GLAZING CONSULTANTS

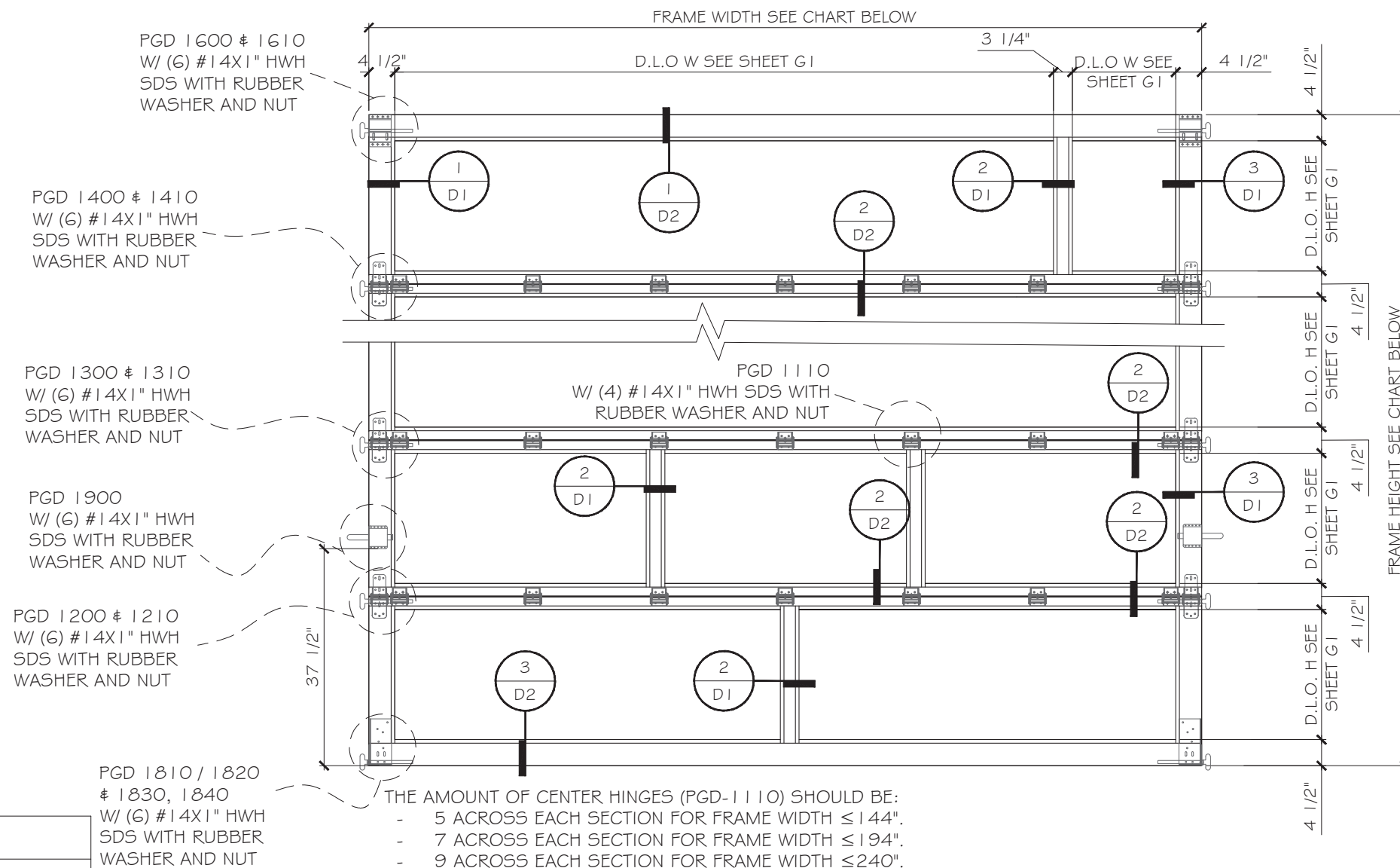
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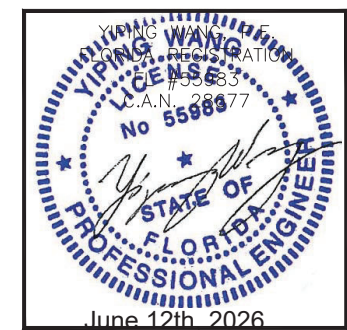
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DESIGN LOAD CAPACITY-PSF (GLASS TYPE AND CAPACITY SEE SHEET G 1)			
TOTAL SECTION	MAX. FRAME WIDTH (INCH)	MAX. FRAME HEIGHT (INCH)	DESIGN LOAD (W/O REINF.) EXT.(+) INT.(-)
4	144	112 1/2	+60/-65
	129 1/2	124 1/2	+60/-65
5	144	139 1/2	+60/-65
	129 1/2	154 1/2	+60/-65
6	144	166 1/2	+60/-65
	129 1/2	184 1/2	+60/-65
7	144	193 1/2	+60/-65
	129 1/2	214 1/2	+60/-65
8	144	220 1/2	+60/-65
	129 1/2	244 1/2	+60/-65
9	144	247 1/2	+60/-65
	129 1/2	274 1/2	+60/-65



TYPICAL EXTERIOR ELEVATIONS

DESIGN LOADS: +60/-65 PSF (W/O REINF.)
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)

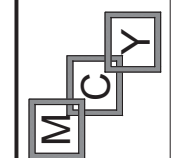
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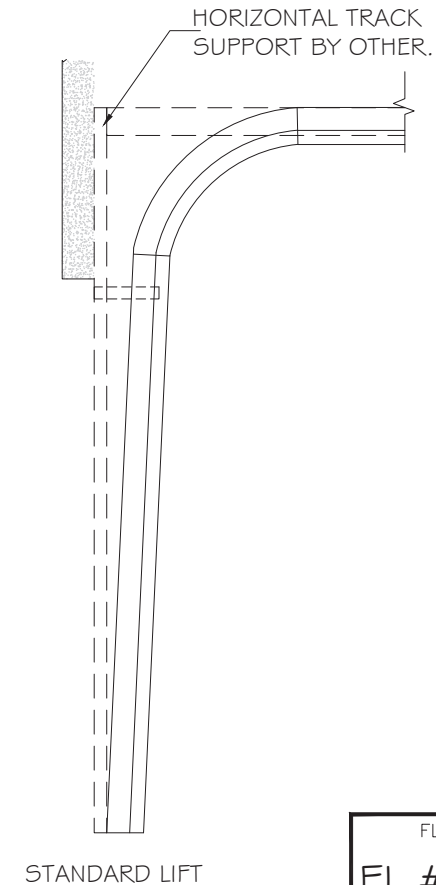
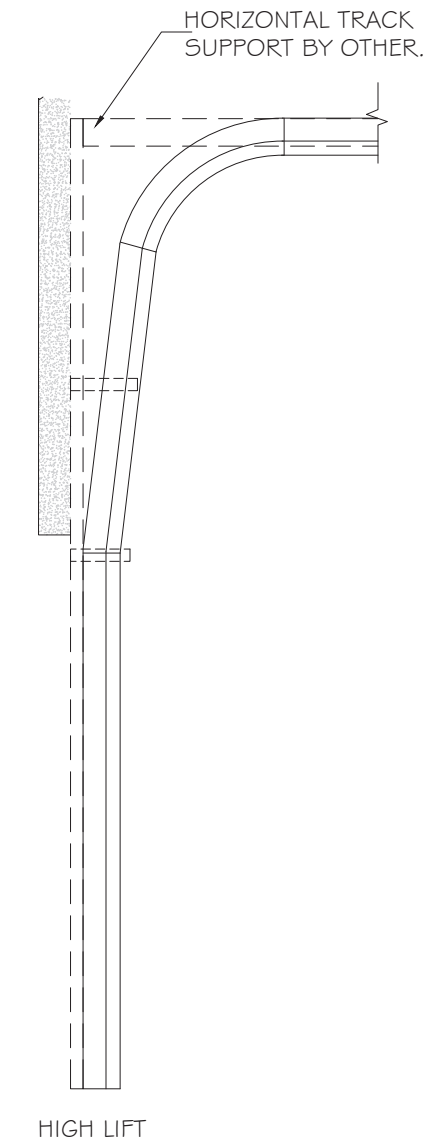
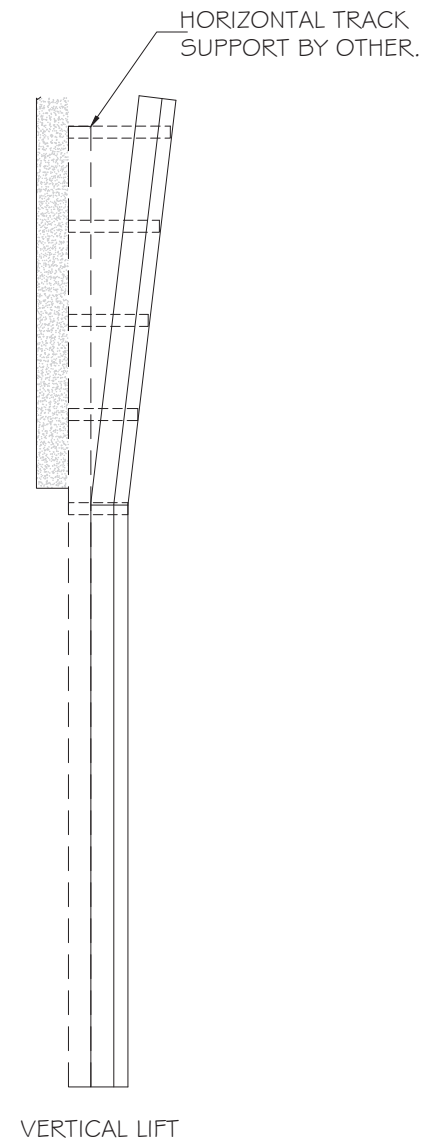
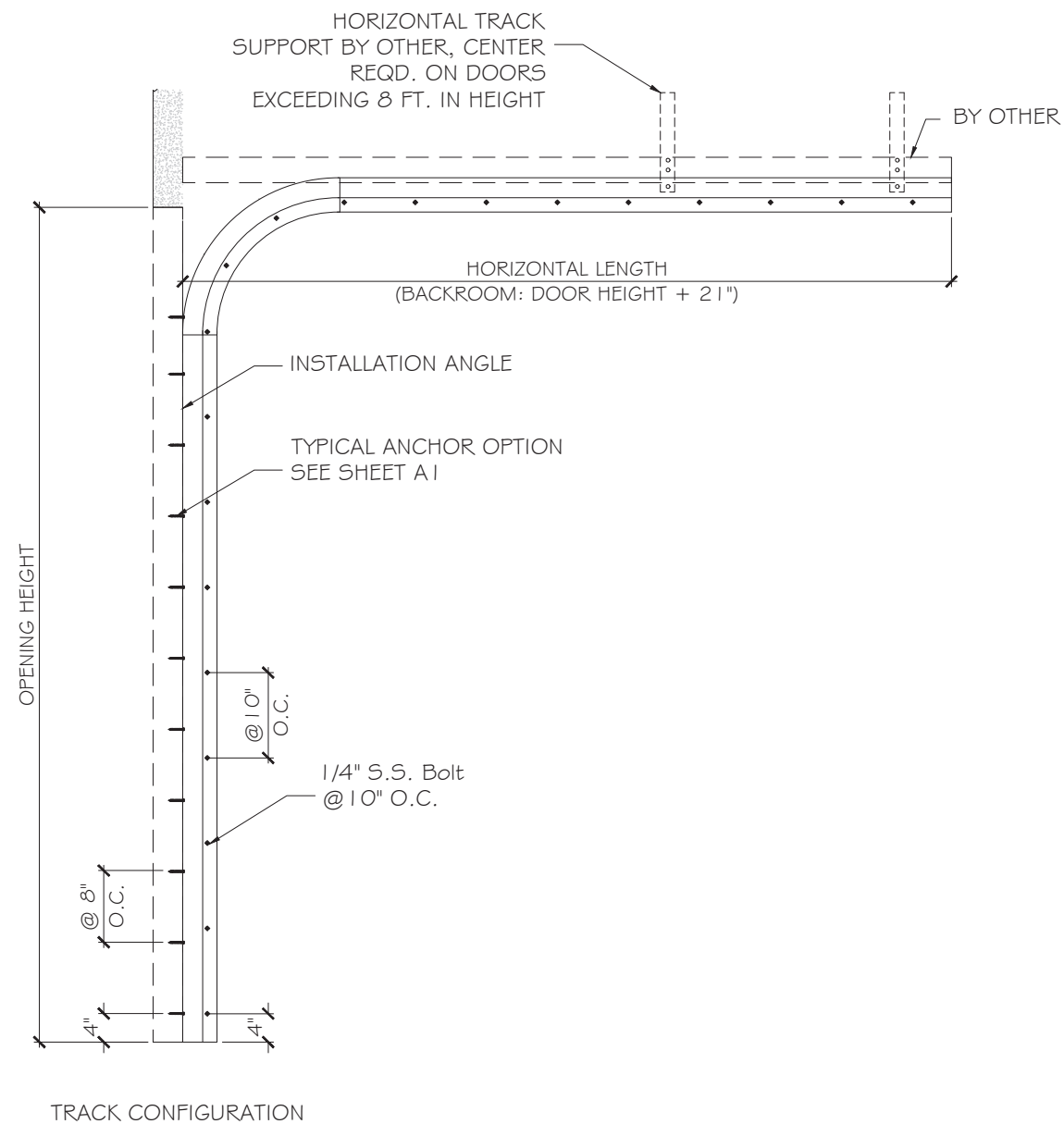
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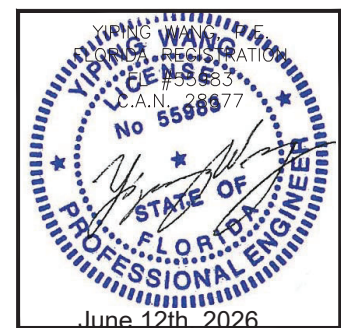
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Drawn Date 06.12.2026	Drawn By James
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E4

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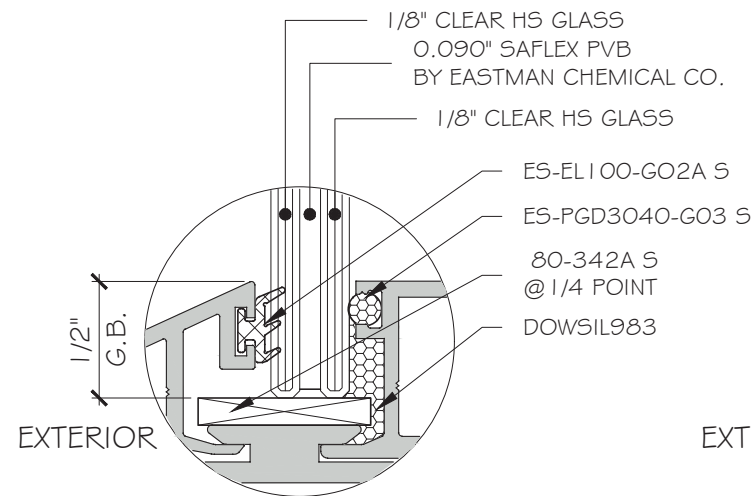
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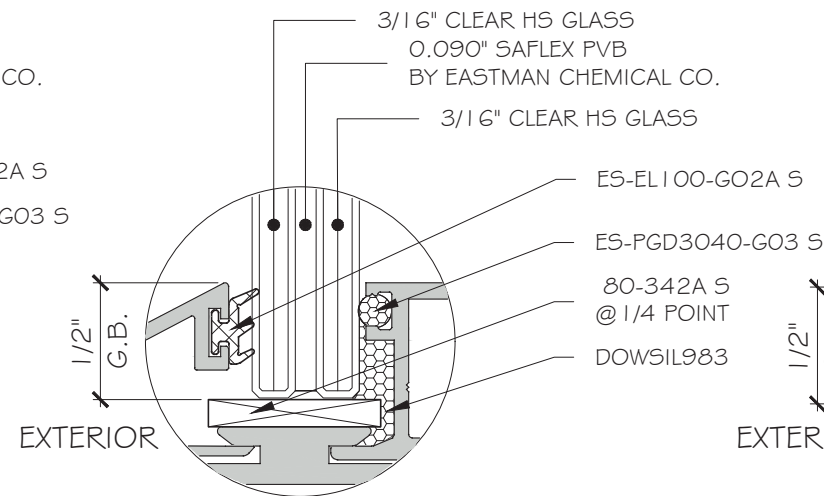
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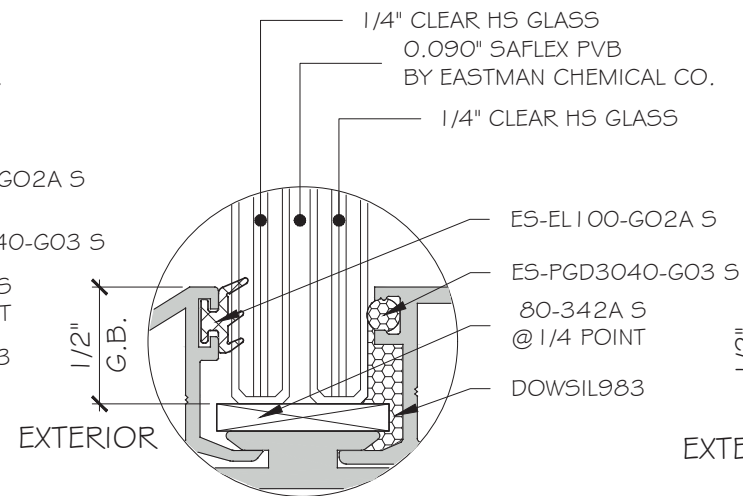
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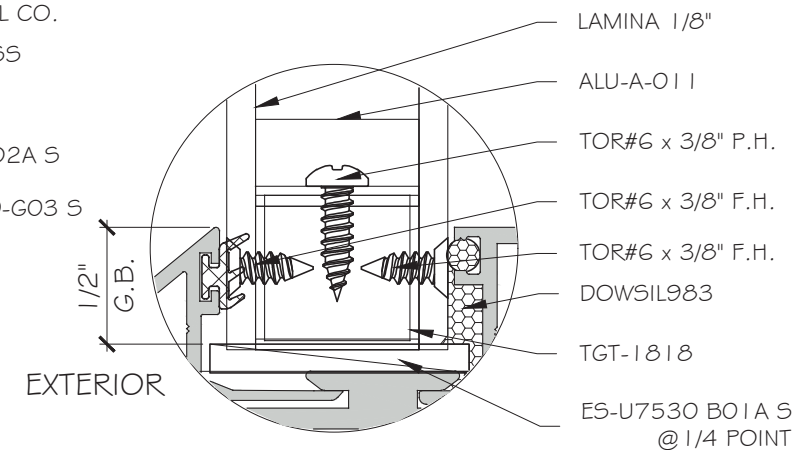
G1 GLASS TYPE 'G1'
5/16" NOMINAL OVERALL



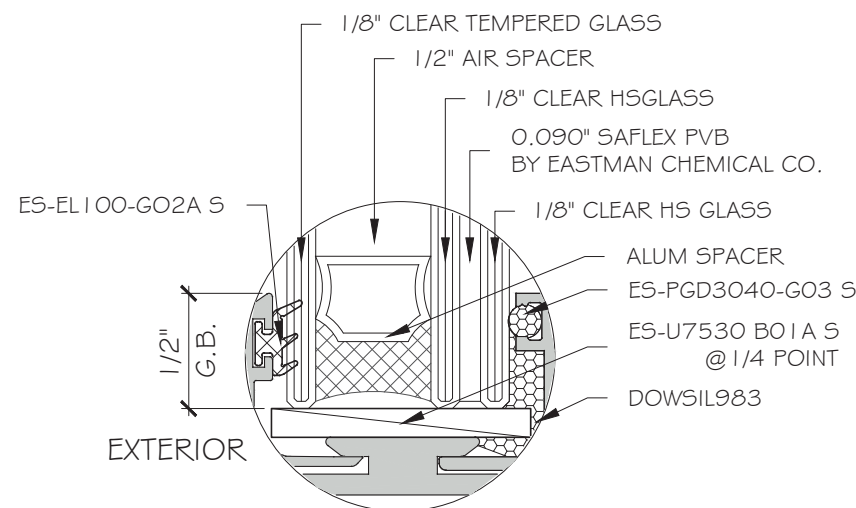
G2 GLASS TYPE 'G2'
7/16" NOMINAL OVERALL



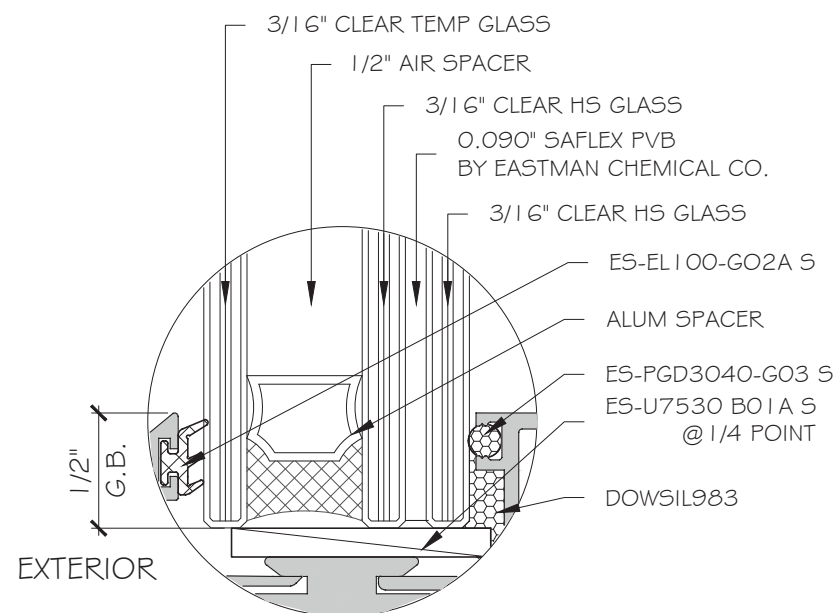
G3 GLASS TYPE 'G3'
9/16" NOMINAL OVERALL



OP GLASS TYPE 'OP'
15/16" NOMINAL OVERALL



G4 GLASS TYPE 'G4'
15/16" NOMINAL OVERALL

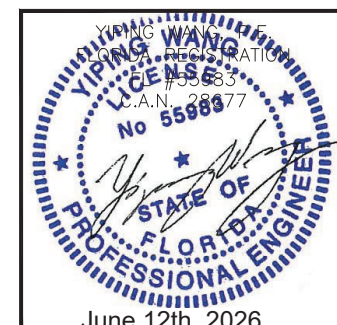


G5 GLASS TYPE 'G5'
1-1/8" NOMINAL OVERALL

DESIGN LOAD CAPACITY-PSF			
MAX. DIMENSIONS.		GLASS TYPE	DESIGN LOAD EXT.(+) INT.(-)
DLO.W (INCH)	DLO.H (INCH)		
113 7/8	22 1/2	G1/G4	+60/-65
100 1/2	25 1/2		
135	22 1/2	G2/G3	+60/-65
120 1/2	25 1/2		
137 7/8	22 1/2	G5/OP	+60/-65
121 5/8	25 1/2		

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

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G1

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TYPICAL ANCHOR TYPES:

TYPE "A": 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
THROUGH 1 BY WOOD BUCK OR 2 BY WOOD BUCKS
OR DIRECTLY INTO CONCRETE
WITH 2" MIN. EMBED INTO CONCRETE.

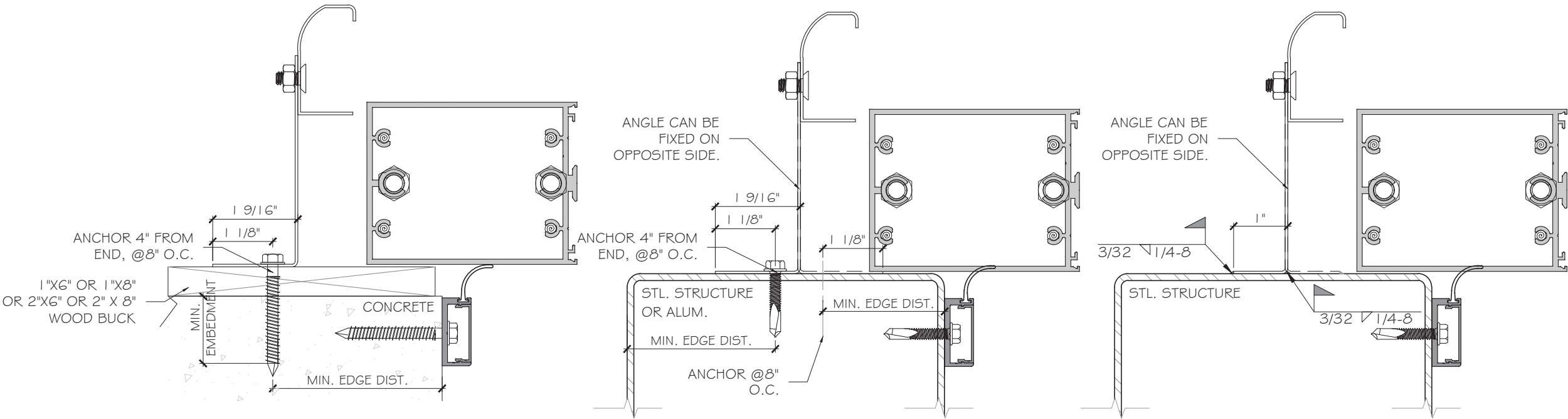
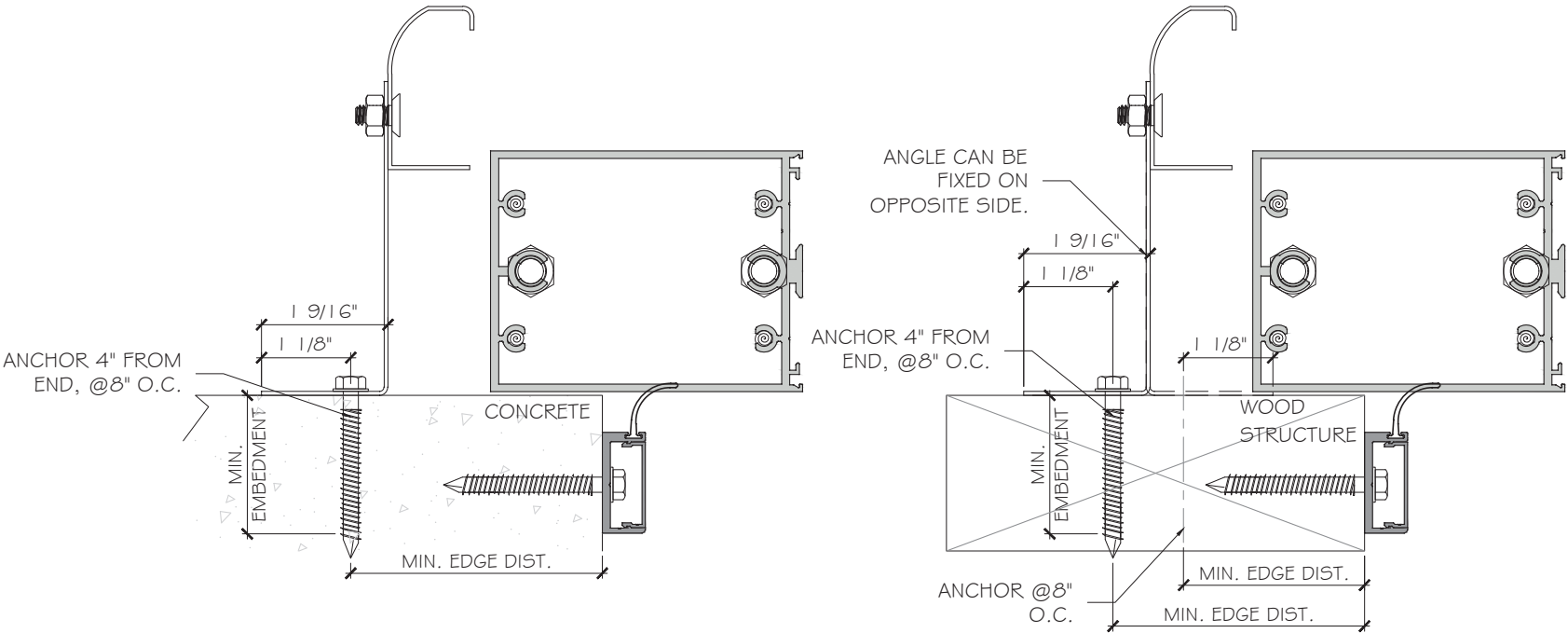
TYPE "B": 5/16" DIA. TEKS SCREW/ DRILL - FLEX (GRADE 5) (Fu=120 KSI, Fy=92 KSI)
INTO STL./ ALUM.
(STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED)

TYPE "C": 5/16" DIA. ULTRACON OR LAG SCREW (Fu=120 KSI, Fy=92 KSI)
INTO WOODS, 2" PENETRATION MIN.

SUBSTRATE:
CONCRETE: $f_c=3\text{KSI}$.
WOOD: SG=0.55 MIN.
STEEL: A36MIN. 1/4" THK. MIN.
ALUMINUM: 6063-T5 MIN. 1/4" THK MIN..

TYPICAL ANCHOR EDGE DISTANCE:
INTO CONCRETE = 3 1/8" MIN.
INTO WOOD STRUCTURE = 1 1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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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TYPICAL ANCHOR TYPES:

TYPE "D": 1/4" DIA. ULTRACON BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
INTO CONCRETE/CMU.

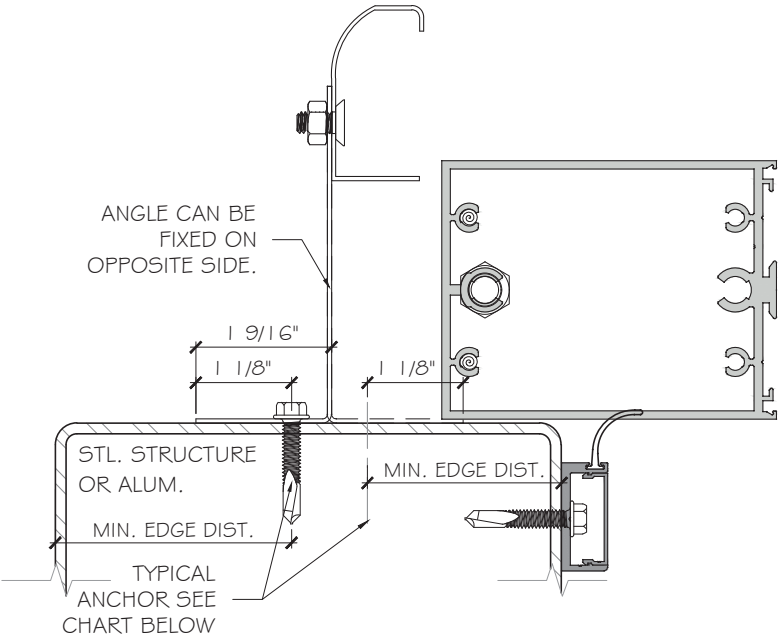
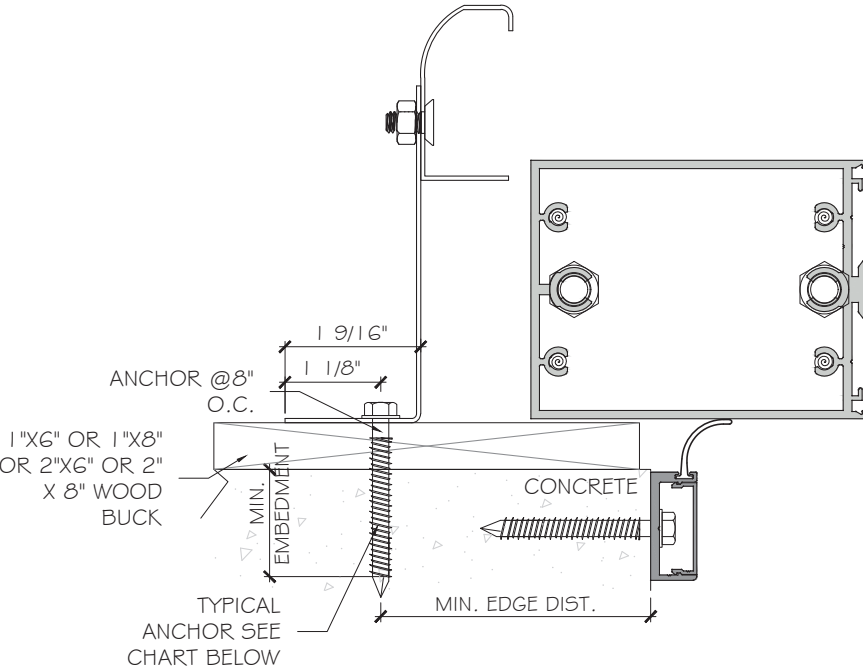
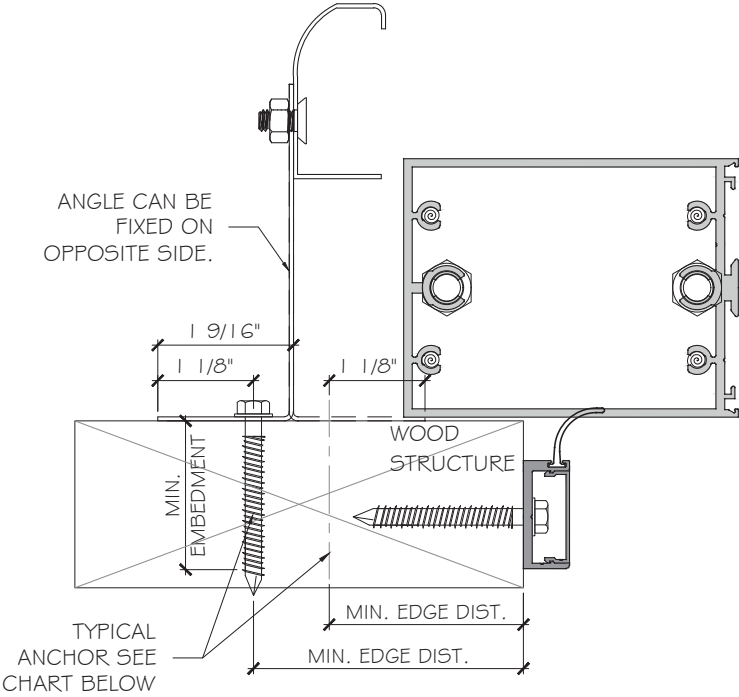
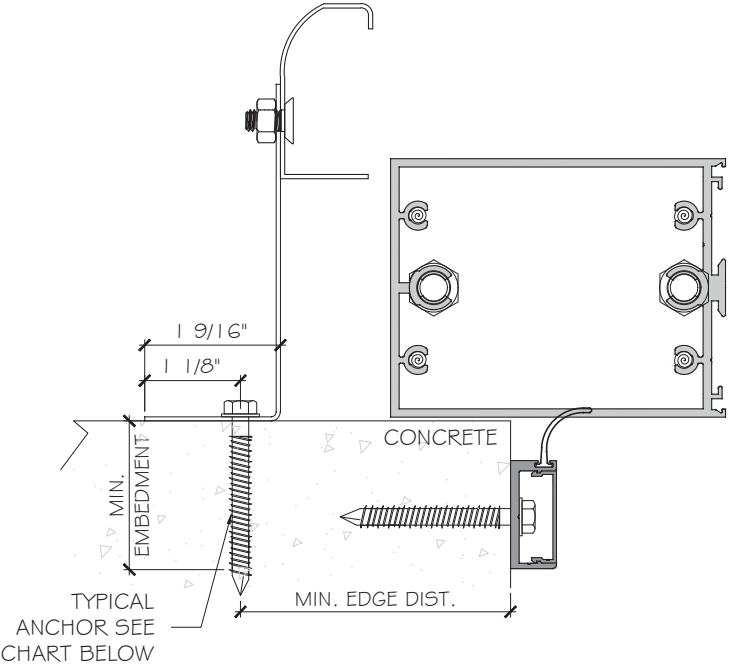
TYPE "E": 1/4" DIA. TAPCON
INTO CONCRETE.

TYPE "F": 3/8" WEJ-IT SLEEVE ANCHOR INTO CONCRETE
INTO CONCRETE.

TYPE "G": 1/2" DIA. LAG SCREWS.
INTO WOOD.

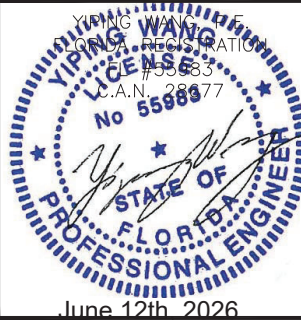
TYPE "H": 1/4"- 1 1/4 TEKS.(Fu= 120 KSI, Fy=92 KSI)
INTO STEEL.

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.



ANCHOR CHART				
ANCHOR TYPE	SUBSTRATE	EMBEDMENT	EDGE DISTANCE (INCH)	MAX. SPACING (INCH)
D	CMU	2 1/4"	2 1/2"	7
D	CONCRETE (f'c=2ksi)	1 3/4"	2 1/2"	6
E	CONCRETE (f'c=2ksi)	1 3/4"	2 1/2"	5
F	CONCRETE (f'c=2ksi)	2 1/2"	2 1/2"	6
F	CONCRETE (f'c=4ksi)	2 1/2"	2 1/2"	9
G	WOOD (SG=0.55MIN.)	1 5/8"	1 5/8"	13
H	STEEL (A36 MIN.)	1 1/4 GA (STEEL THK)	3/4"	4
H	STEEL (A36 MIN.)	1 1/2 GA (STEEL THK)	3/4"	8
H	STEEL (A36 MIN.)	1/8" (STEEL THK)	3/4"	9

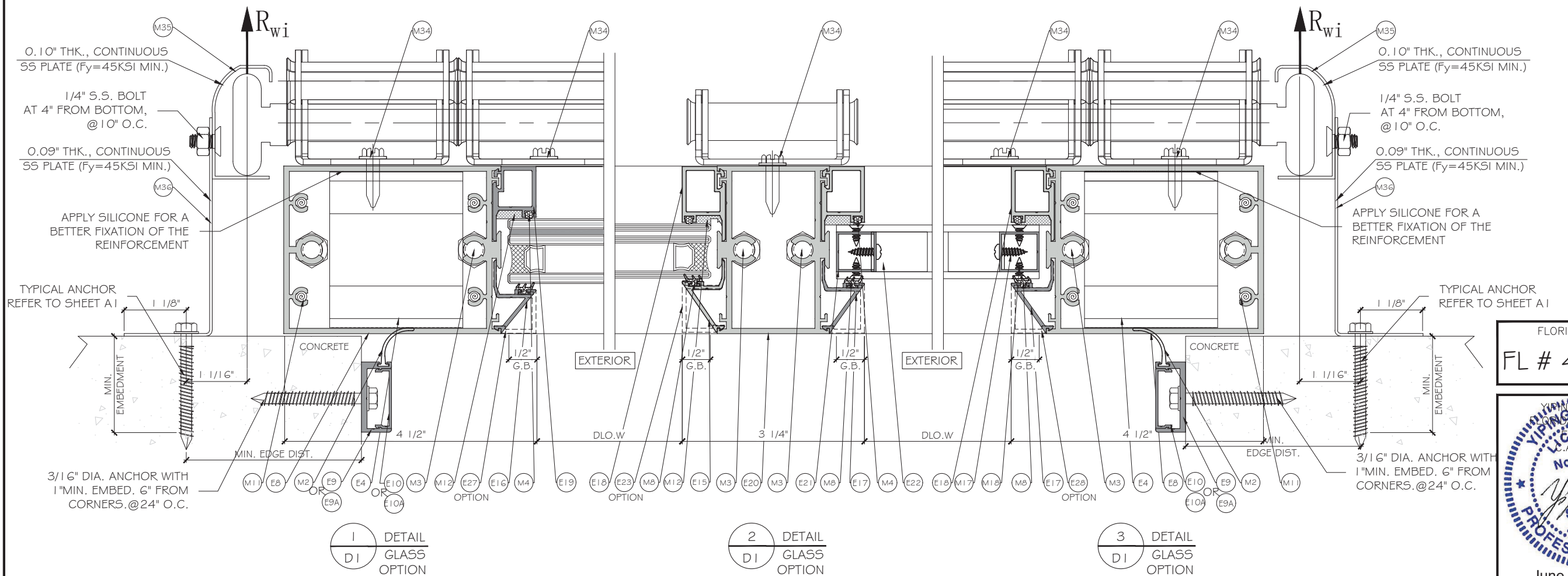
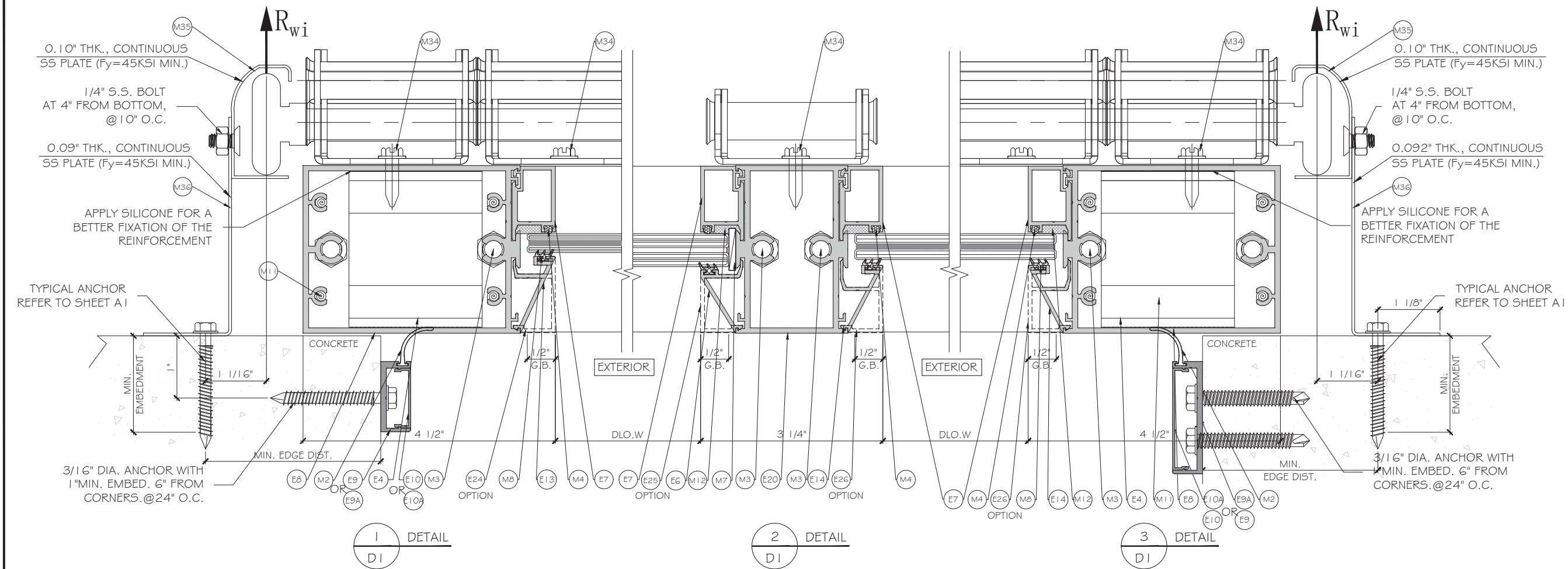
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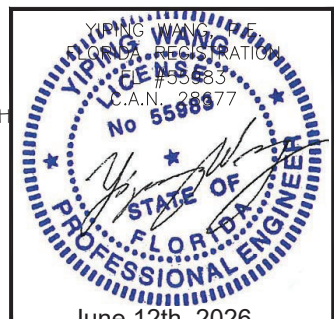
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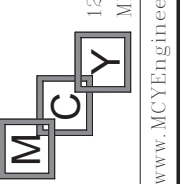
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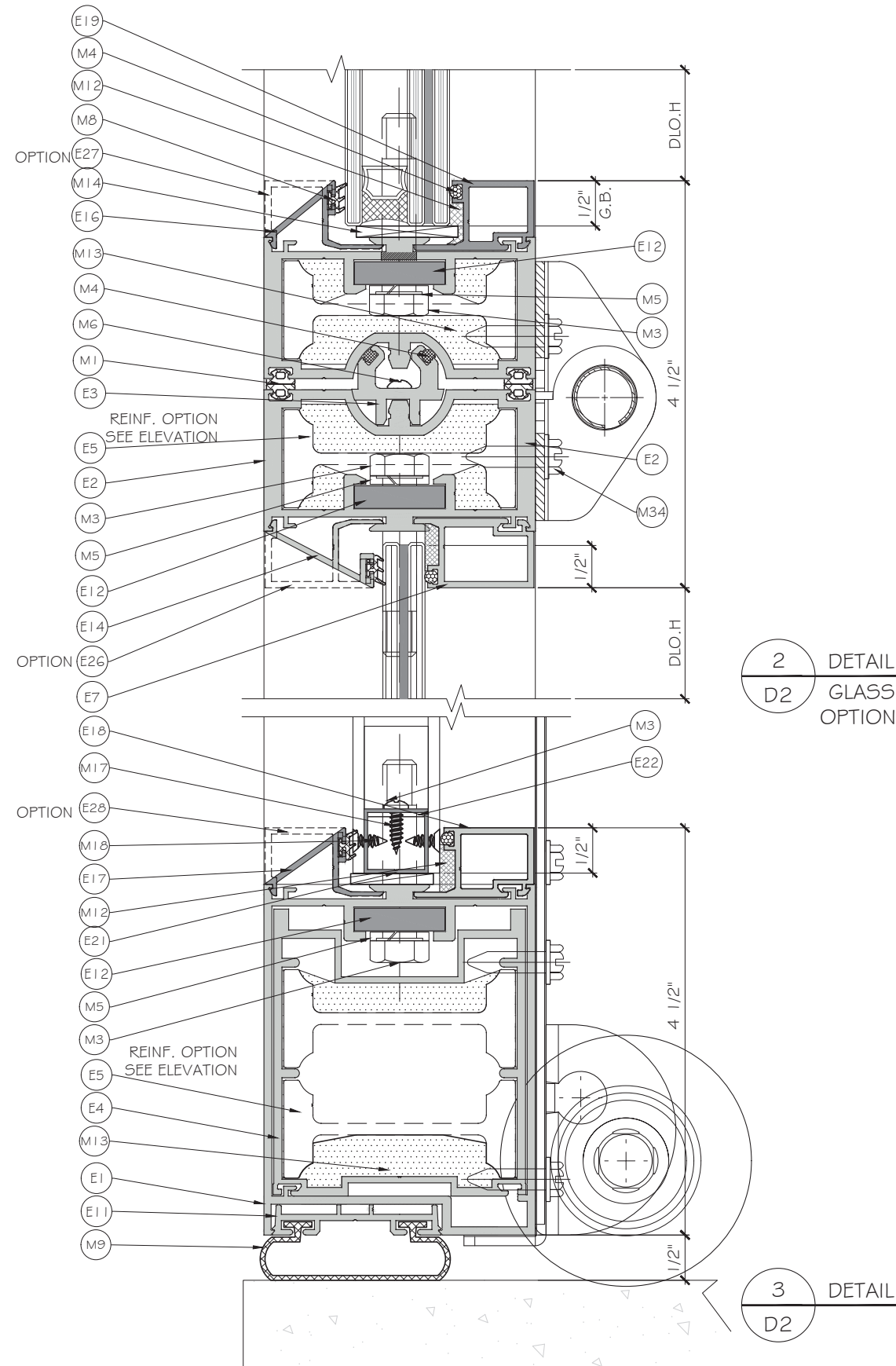
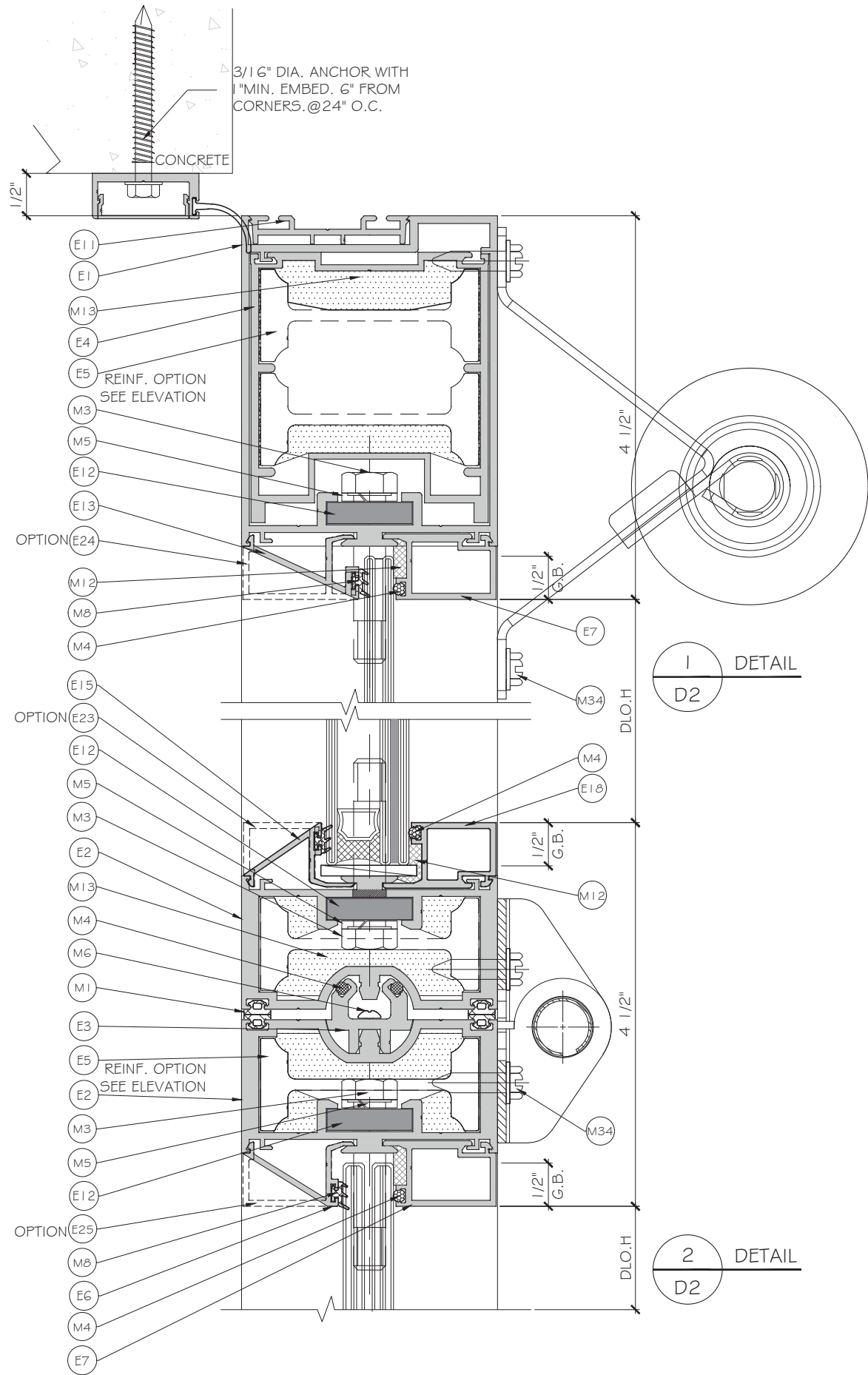
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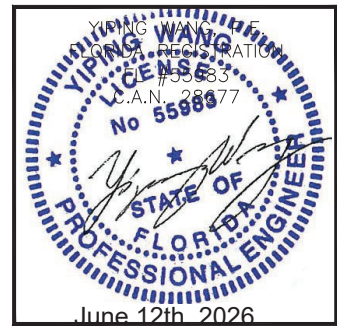
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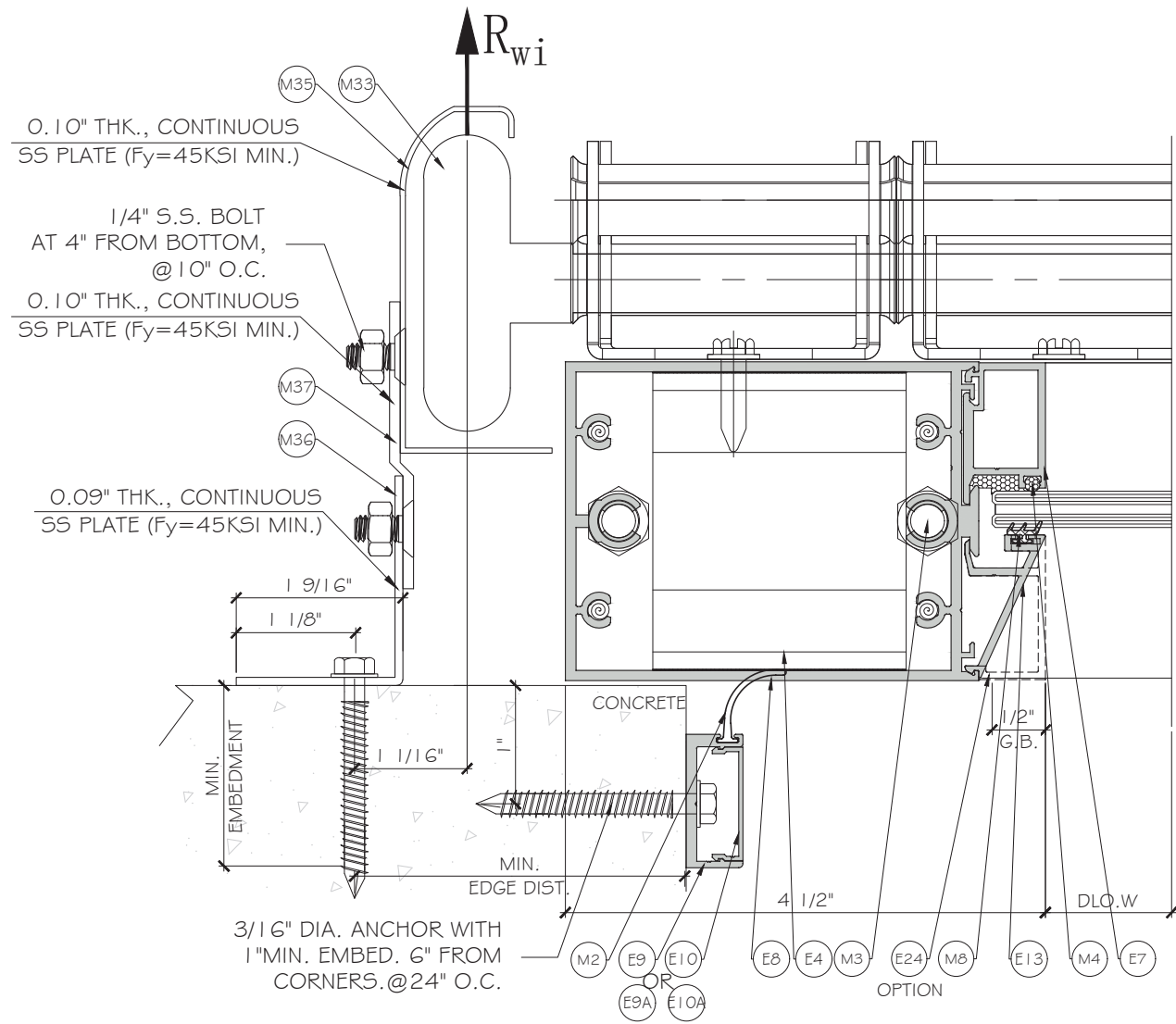


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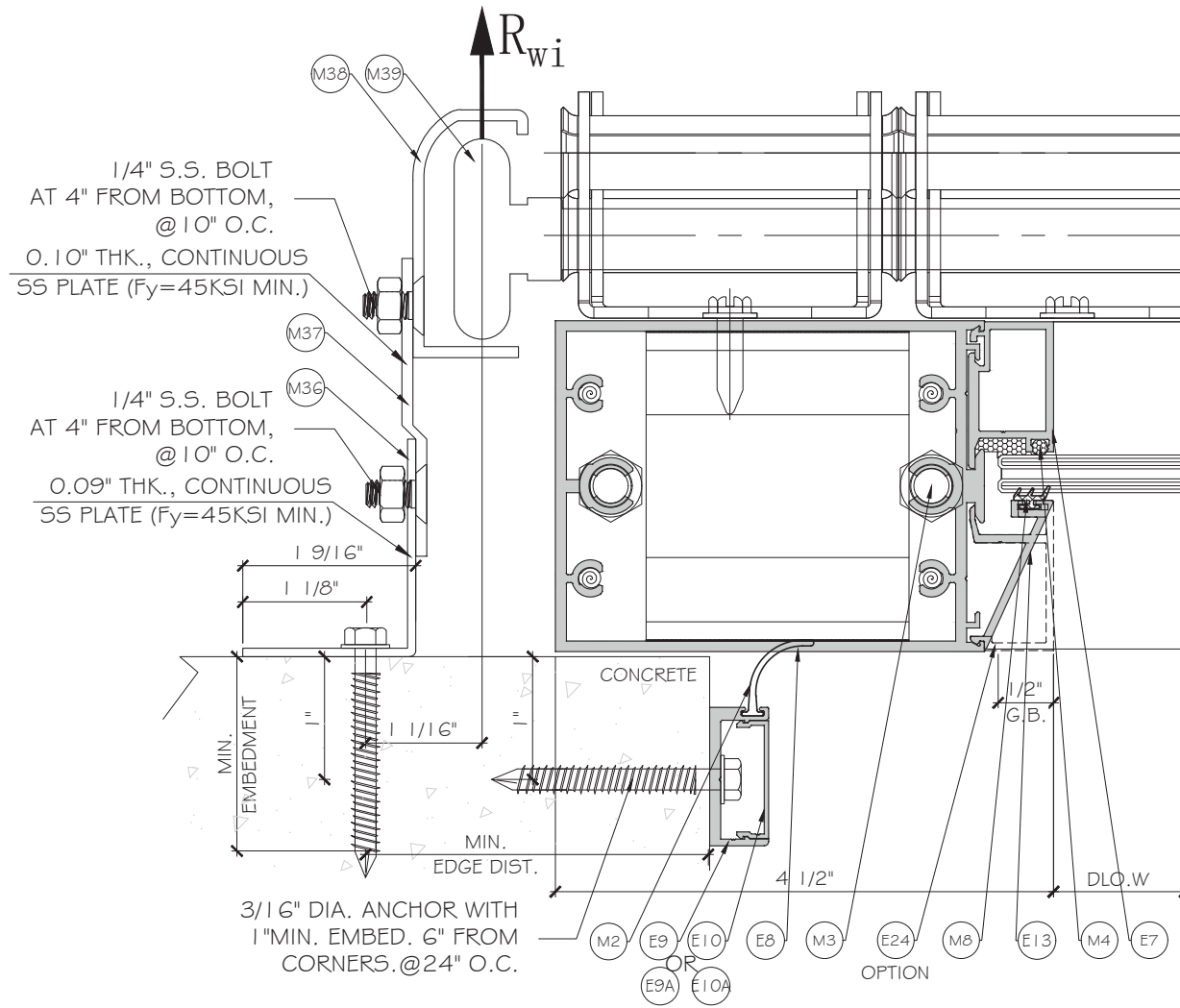
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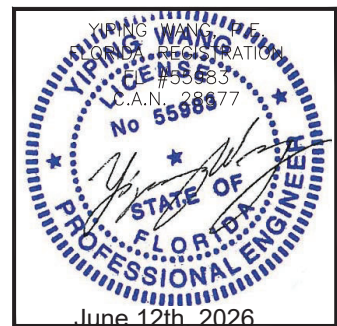


I
D3
DETAIL
3" TRACK
OPTION



I
D3
DETAIL
2" TRACK
OPTION

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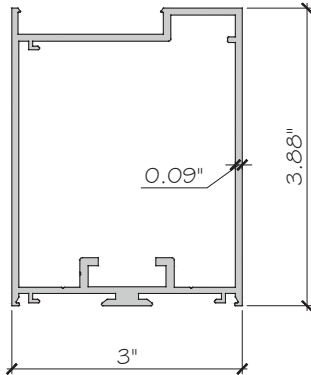
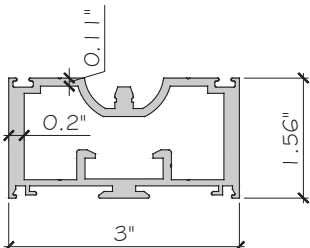
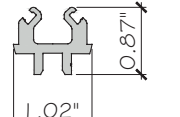
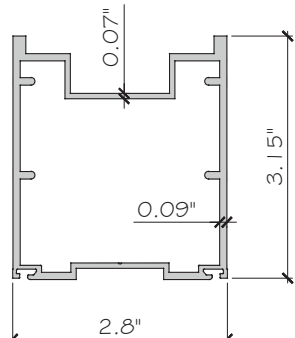
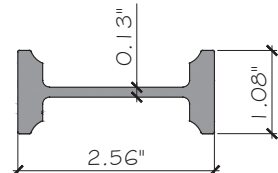
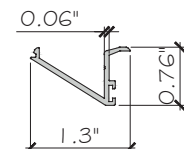
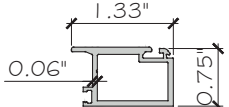
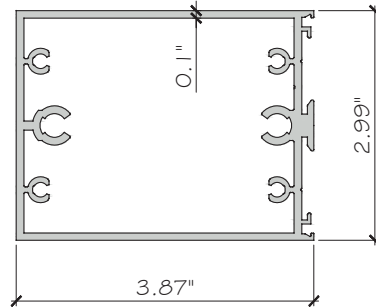
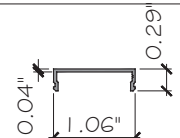
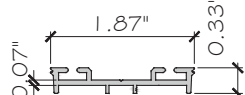
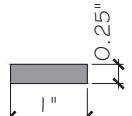
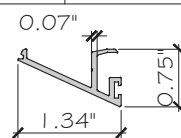
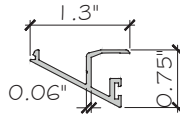
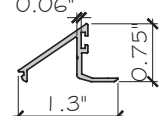
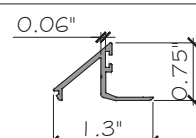
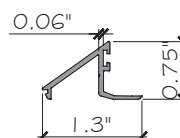
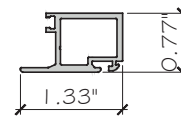
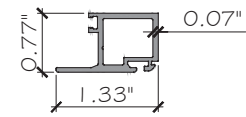
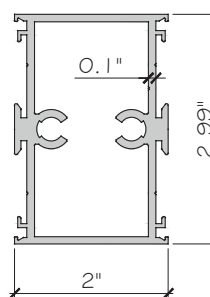
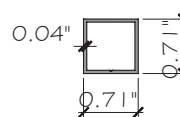
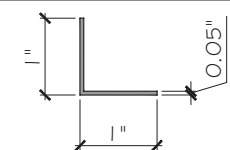
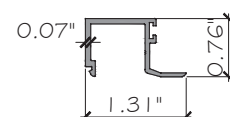
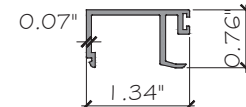
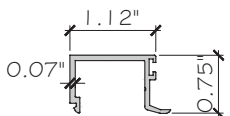
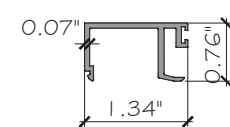
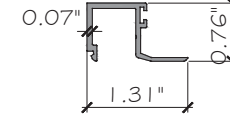
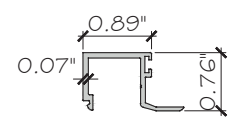
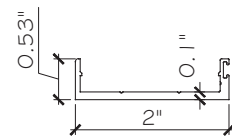
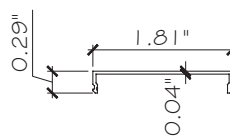
Drawn Date
06.12.2026

Drawn By
James

DRAWING NO.
AD22-13

D3

Sheet No.
11 OF 14

 E1 HEAD/SILL FRAME E5-PGD3040-001 ALUM.6063-T6	 E2 HORIZONTAL INTERMEDIATE E5-PGD3040-002 ALUM.6063-T6		 E3 CENTER SUPPORT E5-PGD3040-003 ALUM.6063-T6		 E4 SUPPORT E5-PGD3040-004 ALUM.6063-T6	 E5 REINFORCEMENT E5-PGD3040-005 ALUM.6005-T5		 E6 GLASS STOP EXTERIOR FOR GLASS OF 9/16" E5-PGD3040-008 ALUM.6063-T6		 E7 GLASS SUPPORT INTERIOR FOR GLASS OF 5/16", 7/16", 9/16" E5-PGD3040-006 ALUM.6063-T6		 E8 FRAME JAMB E5-PDG3040-009 ALUM.6063-T6	
 E10 VERTICAL/HORIZONTAL COVER E5-PGD3040-012 ALUM.6063-T5	 E11 SWEEP HEAD & SILL E5-PGD3040-013 ALUM.6063-T5	 E12 PLATINA SPACER JAMB ALU-P-020 ALUM.6063-T5	 E13 GLASS STOP EXTERIOR FOR GLASS OF 5/16" E5-PGD3040-015 ALUM.6063-T5	 E14 GLASS STOP EXTERIOR FOR GLASS OF 7/16" E5-PGD3040-017 ALUM.6063-T5	 E15 GLASS STOP EXTERIOR FOR GLASS OF 7/16" E5-PGD3040-021 ALUM.6063-T5	 E16 GLASS STOP EXTERIOR E5-PGD3040-023 ALUM.6063-T5	 E17 GLASS STOP EXTERIOR E5-PGD3040-019 ALUM.6063-T5						
 E18 GLASS SUPPORT INTERIOR E5-PGD3040-024 ALUM.6063-T6	 E19 GLASS SUPPORT INTERIOR E5-PGD3040-025 ALUM.6063-T6	 E20 INTERMEDIATE E5-PGD3040-010 ALUM.6063-T6		 E21 TUBULARES PARA LAMINA TGT-1818 ALUM.6063-T5	 E22 ESCUADRA ENSAMBLE TUBULARES ALU-A-011 ALUM.6063-T6	 E23 GLASS STOP EXTERIOR E5-PGD3040-020 ALUM.6063-T5	 E24 GLASS STOP EXTERIOR E5-PGD3040-014 ALUM.6063-T5						
 E25 GLASS STOP EXTERIOR E5-PGD3040-007 ALUM.6063-T6	 E26 GLASS STOP EXTERIOR E5-PGD3040-016 ALUM.6063-T5			 E27 GLASS STOP EXTERIOR E5-PGD3040-022 ALUM.6063-T5	 E28 GLASS STOP EXTERIOR E5-PGD3040-018 ALUM.6063-T5								
 E9A VERTICAL/HORIZONTAL SEAL SUPPORT E5-PGD3040-011A ALUM.6063-T6	 E10A VERTICAL/HORIZONTAL COVER E5-PGD3040-012A ALUM.6063-T5												

FLORIDA APPROVAL:

FL # 41580.1

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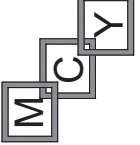
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FLORIDA APPROVAL:
FL # 41580.1





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

ES-PGD3040 GARAGE DOOR - LMI

E.S. WINDOWS, INC.
10663 NE QUAYBRIDGE CT.
MIAMI, FL 33138
TEL: (305) 624-7775

Rev. No.	Date	Drawn By	Description
R5	06.12.2026	James	REVISION
R4	10.28.2024	James	REVISION

Drawn Date 06.12.2026

Drawn By James

DRAWING NO.

AD22-13

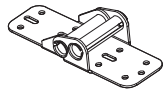
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Sheet No.

12 OF 14



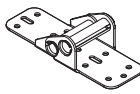
M19 SHORT BRACKET 1
PGD 1110
STAINLESS STEEL



M20 LARGE BRACKET 2
PGD 1200
STAINLESS STEEL



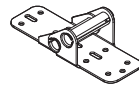
M21 SHORT BRACKET 2
PGD 1210
STAINLESS STEEL



M22 LARGE BRACKET 3
PGD 1300
STAINLESS STEEL



M23 SHORT BRACKET 3
PGD 1310
STAINLESS STEEL



M24 LARGE BRACKET 4
PGD 1400
STAINLESS STEEL



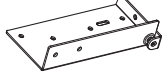
M25 SHORT BRACKET 4
PGD 1410
STAINLESS STEEL



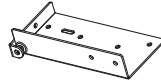
M26 TOP BRACKET
PGD 1600
STAINLESS STEEL



M27 TOP ROLLER HOLDER
PGD 1610
STAINLESS STEEL



BOTTOM BRACKET
 LEFT HAND SIDE
 PGD 1810
 STAINLESS STEEL



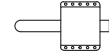
BOTTOM BRACKET
 RIGHT HAND SIDE
 PGD 1820
 STAINLESS STEEL



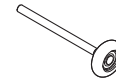
M30 BOTTOM WHEEL HOLDER
PGD 1830
STAINLESS STEEL



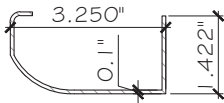
(M31) PIN + RETAINER
PGD 1840
STAINLESS STEEL



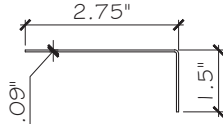
M32 HEAVY DUTY INSIDE
DEADLOCK
PGD 1900
STAINLESS STEEL



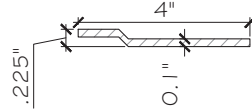
M33 3" WHEEL ASSEMBLY
PGD 8300



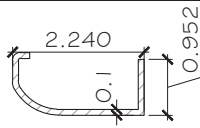
(M35) DOOR TRACK FOR 3" WHEEL
2015
STAINLESS STEEL



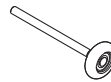
M36 INSTALLATION ANGLE
2015B
STAINLESS STEEL



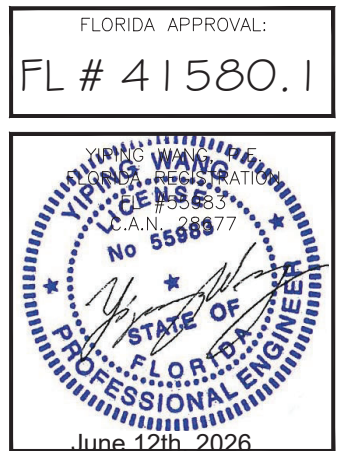
M37 TRACK BRACKET
2016
STAINLESS STEEL



(M38) DOOR TRACK FOR 2" WHEEL
2017
STAINLESS STEEL

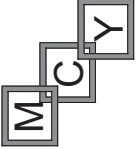


M39 2" WHEEL ASSEMBLY
PGD 8200

[illegible]

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E.S. WINDOWS, INC.
10653 NE QUAYBRID GE CT.
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