

ES-WINDOWS
ES-P300 AWNING WINDOW - NON IMPACT

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023/9TH EDITION OF FLORIDA BUILDING CODE 2026 EXCLUDING HIGH VELOCITY HURRICANE ZONE (NON HVHZ).

- WINDOWS ARE RATED FOR NON IMPACT. IMPACT SHUTTERS ARE REQUIRED WHEN USED IN HVHZ.

- THESE WINDOWS 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 8TH EDITION OF FLORIDA BUILDING CODE 2023/9TH EDITION OF FLORIDA BUILDING CODE 2026 SECTION AS APPLICABLE.

- 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.

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

- HARDWARE CHECKED FOR WIND LOAD IN CLOSED POSITION ONLY; OPERATION PER MANUFACTURER'S INSTRUCTIONS. WINDOWS MUST BE CLOSED AND SECURED WHEN A HURRICANE WARNING IS ISSUED.

- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 35, OR EQUIVALENT CORROSION RESISTANCE).
- CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

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.

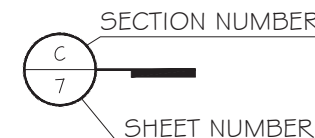
- STEP 2: SEE SHEET E1 & E2 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION.

- STEP 3: ANCHOR OPTION SEE SHEET A1 TO A4. ANCHOR SPACING SEE SHEET E1 & E2.

- 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

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

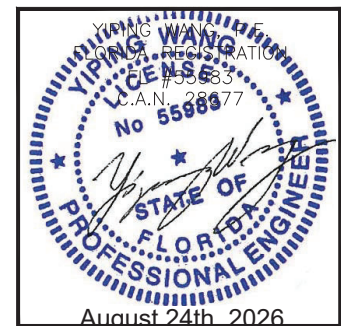


LIMITATIONS OF USE

- 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 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 BE THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL40522.2



ES-P300AWNING WINDOW - N.I.

E.S.WINDOWS, INC.
10653 NE QUAYBRIDGE CT.
MIAMI, FL 33149

MIAMI, FL 33138
TEL. (305) 624-7775

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

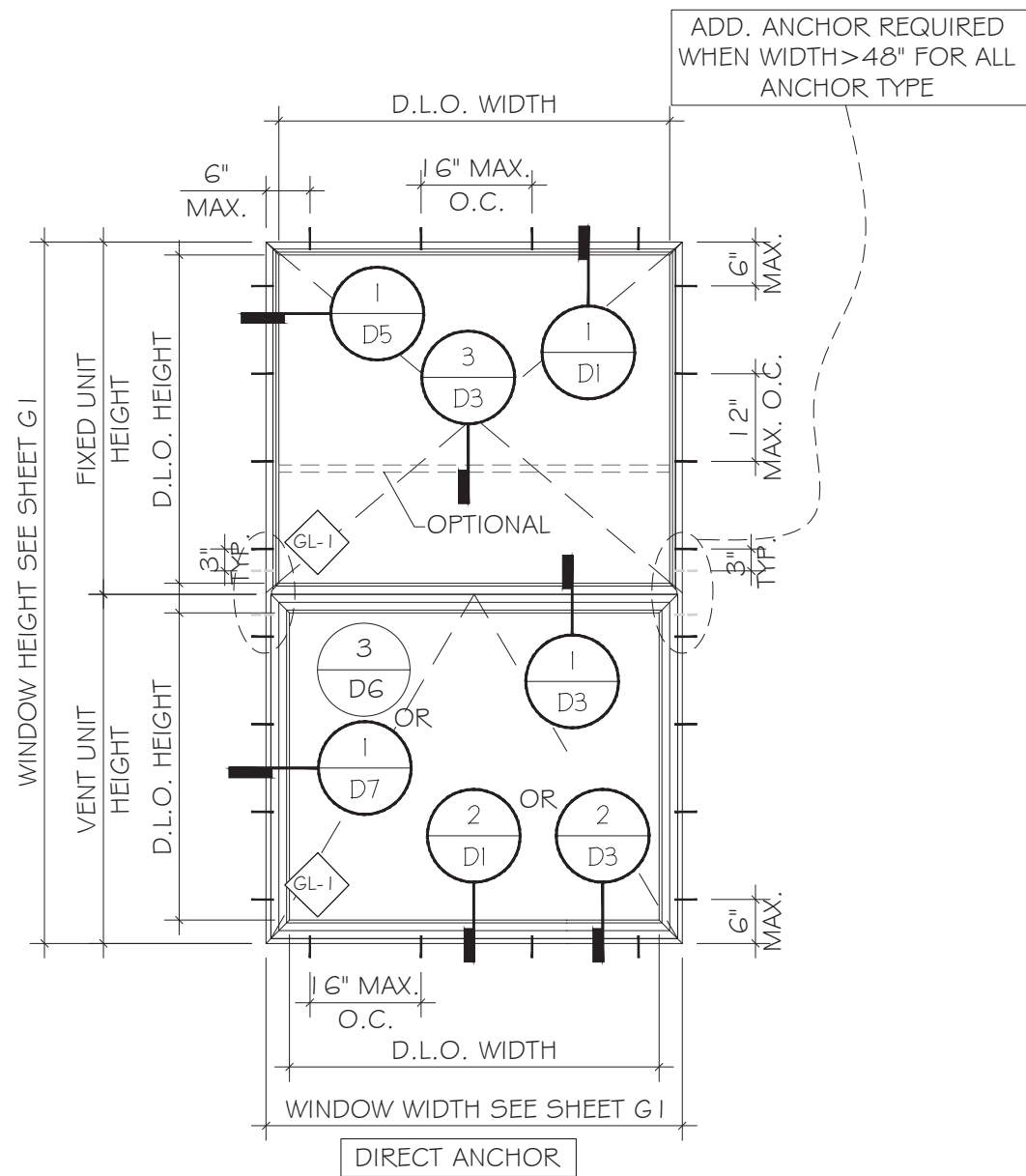
12781 MIRAMAR PKWY,STE.301
MIRAMAR, FL 33027 P: 305.588.5224
mcy@mcengineering.com mcengineering.com

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08.24.2026	AS SHOWN

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AD21-54

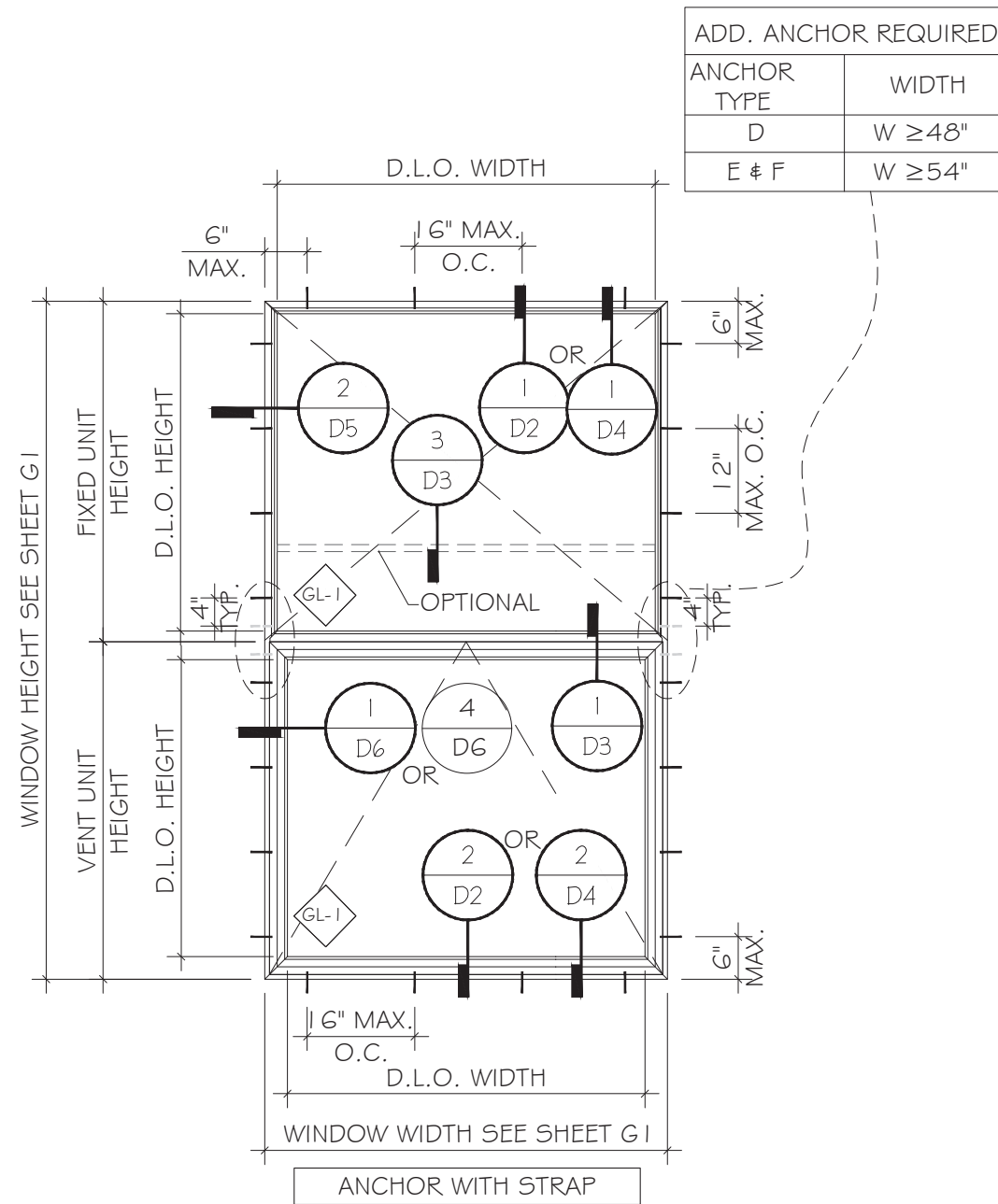
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Sheet No.
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TYPICAL WINDOW ELEVATIONS

MAX. D.L.O. AREA FOR FIXED UNIT = 16.9 SQ.FT.
 MAX. D.L.O. AREA FOR VENT UNIT = 14.80 SQ.FT.
 NOTE: ANCHOR TYPE SEE SHEET A1.

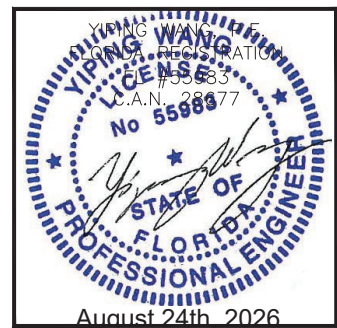


TYPICAL WINDOW ELEVATIONS

MAX. D.L.O. AREA FOR FIXED UNIT = 16.9 SQ.FT.
 MAX. D.L.O. AREA FOR VENT UNIT = 14.80 SQ.FT.
 NOTE: ANCHOR TYPE SEE SHEET A2.

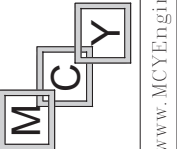
ADD. ANCHOR REQUIRED	
ANCHOR TYPE	WIDTH
D	W ≥ 48"
E & F	W ≥ 54"

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 MIAMI, FL 33138
 TEL: (305) 624-7775



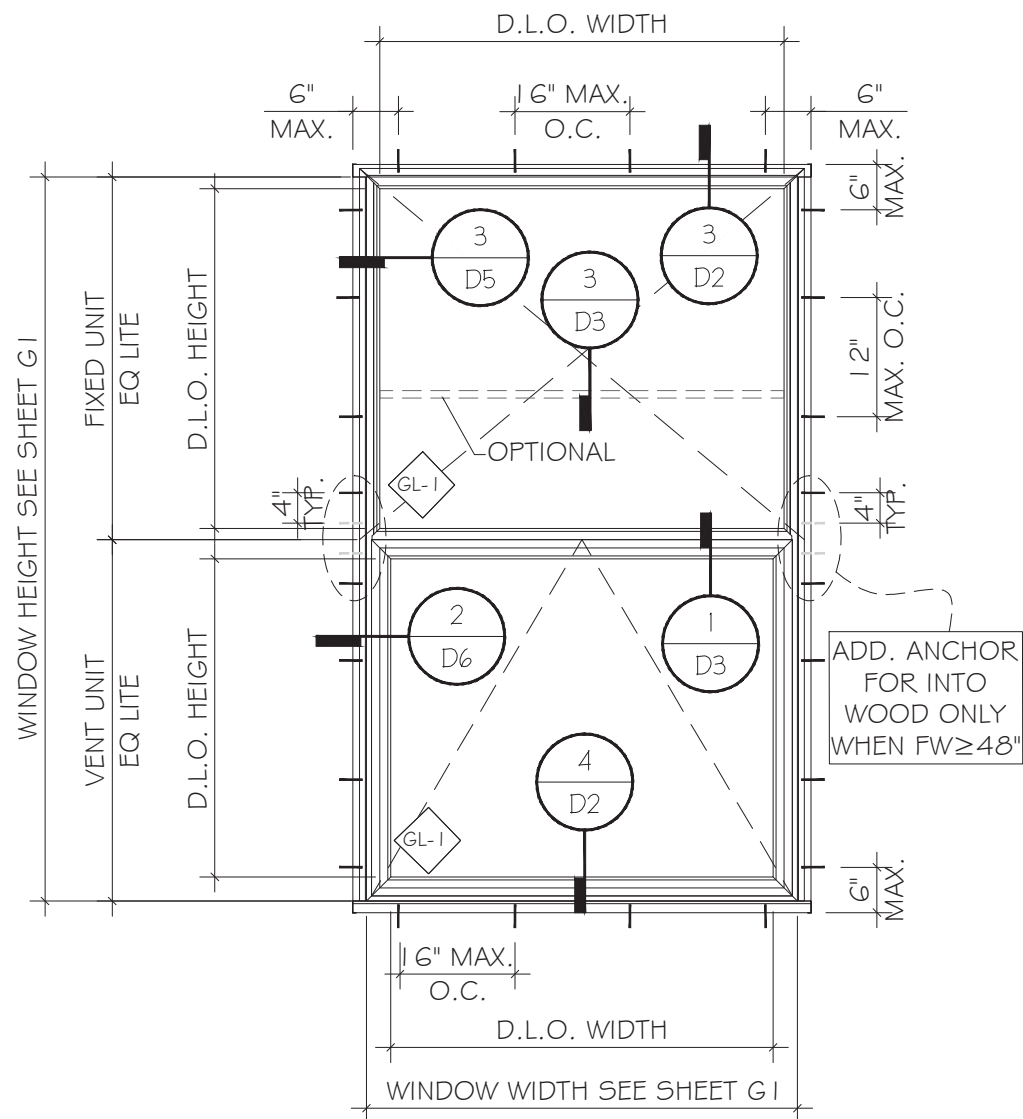
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 12781 MIRAMAR PKWY, STE. 301
 MIRAMAR, FL 33027
 P: 305.588.5224
 www.MCYEngineering.com
 mcy@mcyengineering.com

Rev. No.	Date	Drawn By	Description
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R4	06.03.2025	JAMES	REVISION

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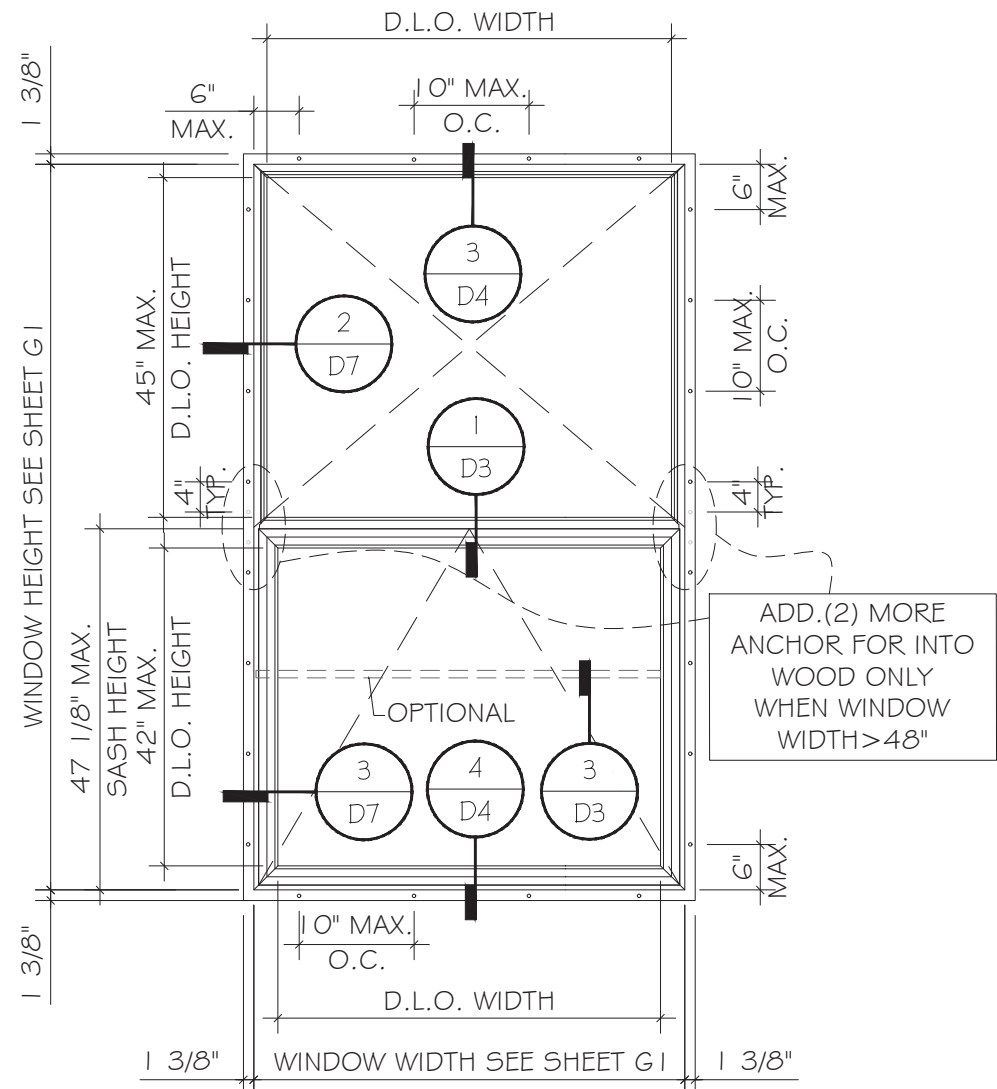
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ANCHOR WITH RECEPTOR

TYPICAL WINDOW ELEVATIONS

MAX. D.L.O. AREA FOR FIXED UNIT = 16.9 SQ.FT.
 MAX. D.L.O. AREA FOR VENT UNIT = 14.80 SQ.FT.
 NOTE:ANCHOR TYPE SEE SHEET A3.

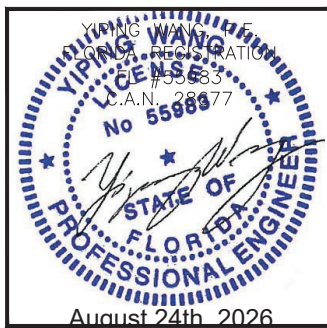


NAIL FIN WINDOW

TYPICAL WINDOW ELEVATIONS

MAX. D.L.O. AREA FOR FIXED UNIT = 16.9 SQ.FT.
 MAX. D.L.O. AREA FOR VENT UNIT = 14.80 SQ.FT.
 NOTE:ANCHOR TYPE SEE SHEET A4.

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 MIAMI, FL 33138
 TEL.(305) 624-7775

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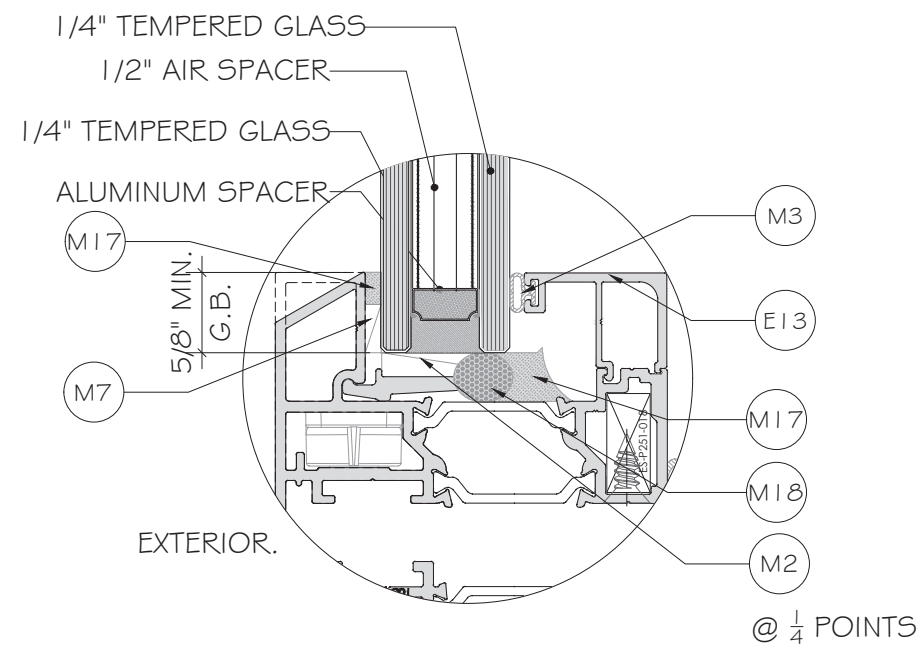
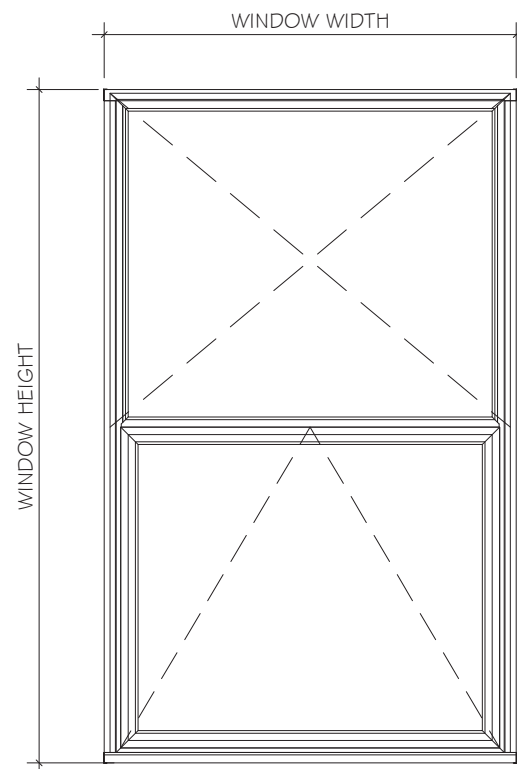
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E2

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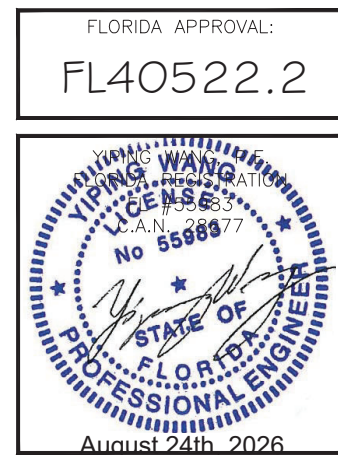
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 MIRAMAR, FL 33027
 P: 305.588.5224
 www.MCYEngineering.com
 mcy@mcyengineering.com

AWNING WINDOW ALLOWABLE PRESSURE			
WINDOW HEIGHT	WINDOW WIDTH	ALLOWABLE LOAD	
INCH	INCH	PSF EXT (+)	PSF INT (-)
72.0	24.0	100	100
	30.0	100	100
	36.0	100	100
	42.0	100	100
	48.0	95.0	100
	54.0	84.0	95.0
	60.0	76.0	86.0
78.0	24.0	100	100
	30.0	100	100
	36.0	100	100
	42.0	100	100
	48.0	95.0	100
	54.0	84.0	95.0
	60.0	76.0	86.0
84.0	24.0	100	100
	30.0	100	100
	36.0	100	100
	42.0	100	100
	48.0	95.0	100
	54.0	84.0	95.0
	60.0	76.0	86.0
90.0	24.0	100	100
	30.0	100	100
	36.0	100	100
	42.0	100	100
	48.0	95.0	100
	54.0	84.0	95.0
	60.0	73.0	82.0
96.0	24.0	100	100
	30.0	100	100
	36.0	100	100
	42.0	100	100
	48.0	95.0	100
	54.0	84.0	95.0
	57.0	80.0	90.0



GLASS TYPE "GL-1"
1" INSULATED GLASS

NOTE:
GLASS COMPLIES WITH ASTM E 1300-16
OR 24 (3 SEC. GUSTS).



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ES-P300AWNING WINDOW - N.I.		E.S.WINDOWS, INC. 10653 NE QUAYBRIDGE CT. MIAMI, FL 33138 TEL. (305) 624-7775			
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ANCHOR OPTIONS (SEE ELEVATIONS FOR SPACING):

ANCHOR TYPE 'A' - 3/16" DIA. ULTRACON BY 'DEWALT'(Fu=164 KSI, Fy=117 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)
WITH 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL)
OR THRU 1BY WOOD BUCK INTO CONCRETE
WITH MIN. 1 3/4" EMBEDMENT. (HEAD/JAMB/SILL)

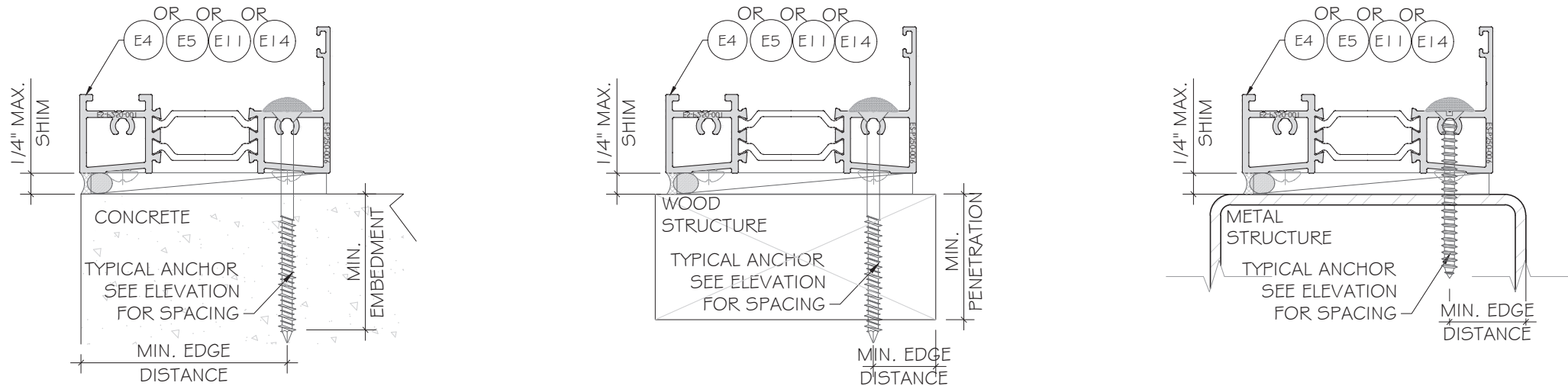
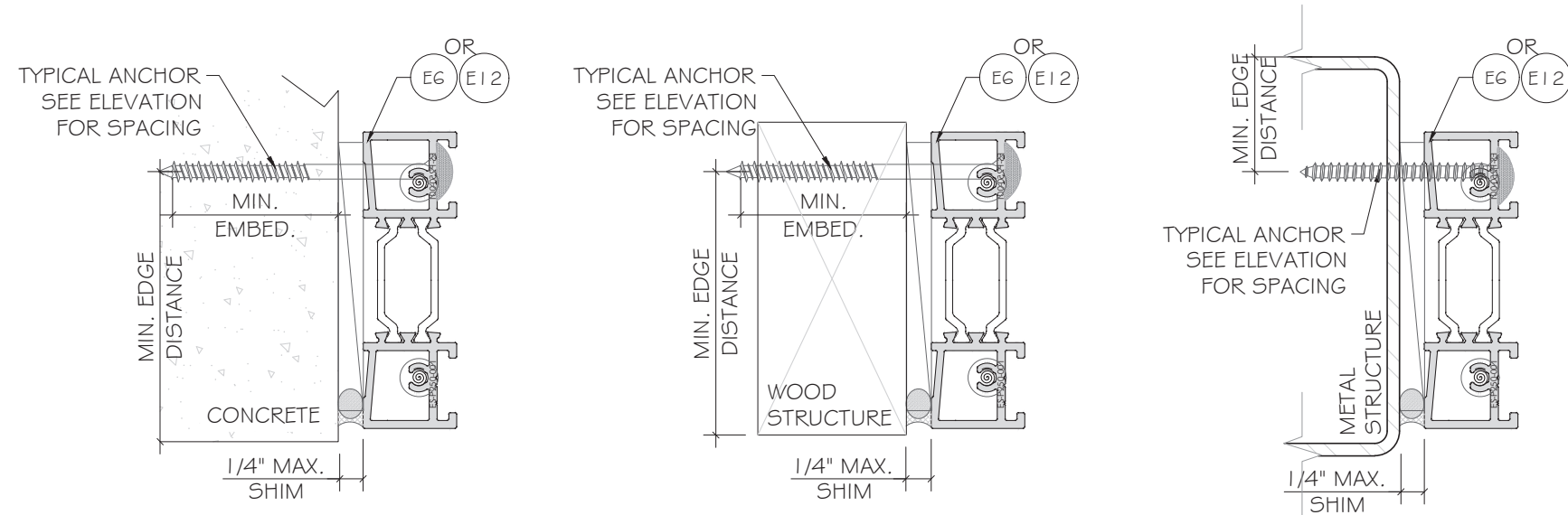
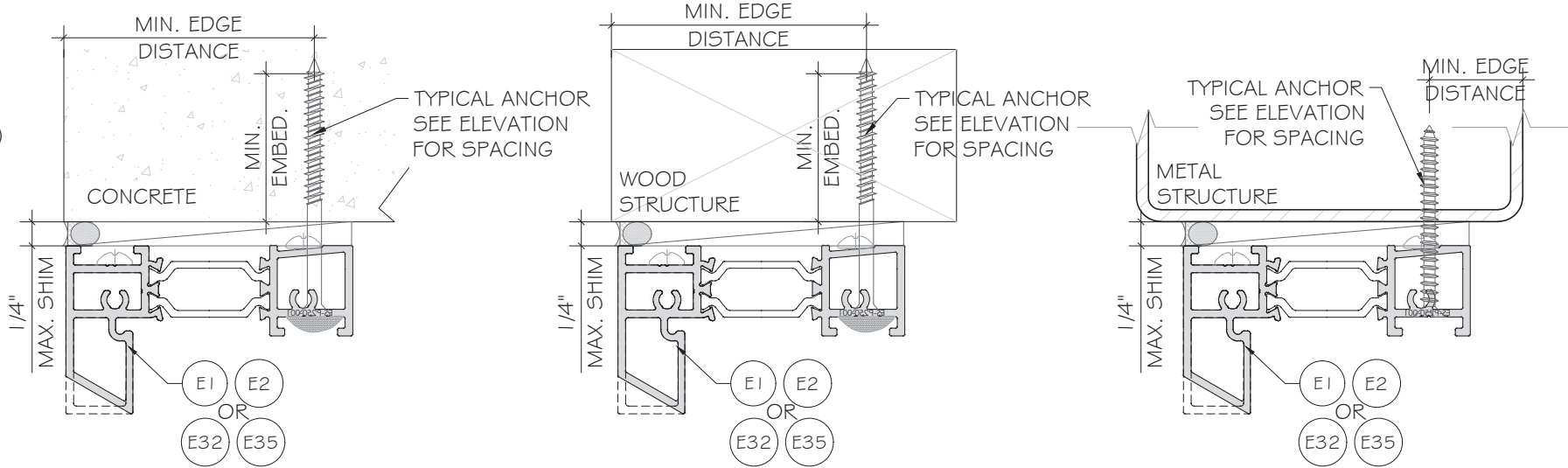
ANCHOR TYPE 'B' - 3/16" DIA. ULTRACON BY 'DEWALT'(Fu=164 KSI, Fy=117 KSI)
DIRECTLY INTO CONCRETE (Fc=3KSI MIN.)
W/1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL).

ANCHOR TYPE 'C' - #10 - SELF DRILLING SCREW GRADE 5
(Fu=120KSI, Fy=92KSI)
INTO F.B.C. APPROVED MULLIONS
OR INTO METAL STRUCTURES.(HEAD/JAMB/SILL).
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

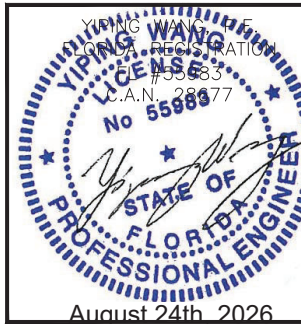
ALUMINUM: 1/8" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (Fy=36KSI MIN)
STEEL: 1/8" THK. STL STRUCTURE
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE = 2 1/2" MIN.
INTO WOOD = 1" MIN.

NOT METAL STRUCTURE = 1/2" MIN.
METAL STRUCTURES OR WOOD STRUCTURES BY OTHERS TO BE
DESIGNED AND ANCHORED PROPERLY TO SUPPORT THE LOADS
IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH
LOADS TO THE BUILDING MAIN STRUCTURE.



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R5	08.24.2026	JAMES	REVISION
R4	06.03.2025	JAMES	REVISION
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ANCHOR OPTIONS (SEE ELEVATION FOR SPACING):

ANCHOR TYPE 'D' - 1/4" DIA. ULTRA-CON+ BY 'DEWALT'(Fu=164KSI, Fy=148KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)
W/ 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL).
OR THRU 1 BY WOOD BUCK INTO CONCRETE
W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL).

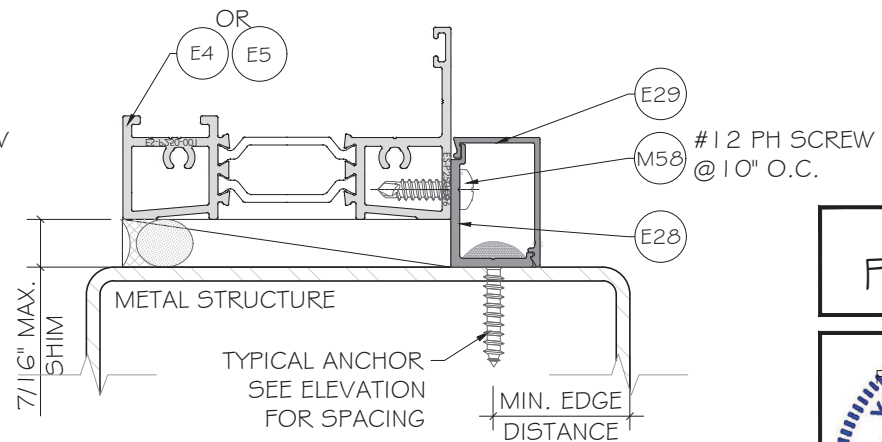
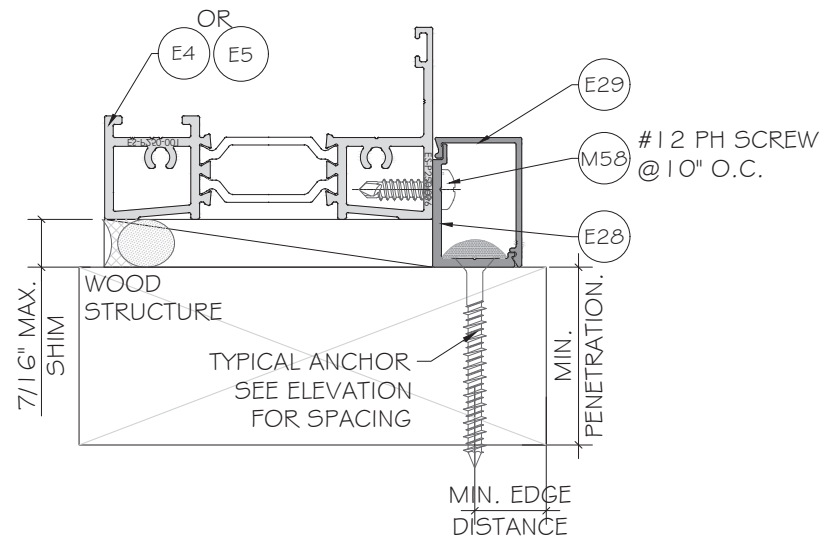
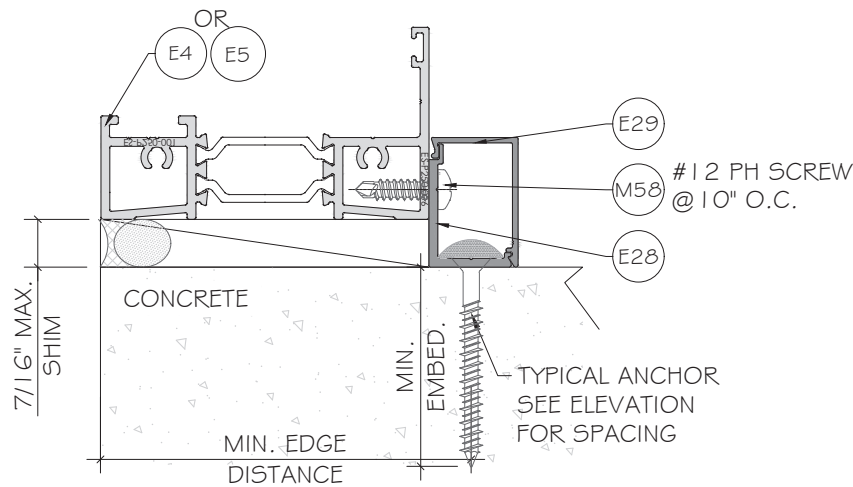
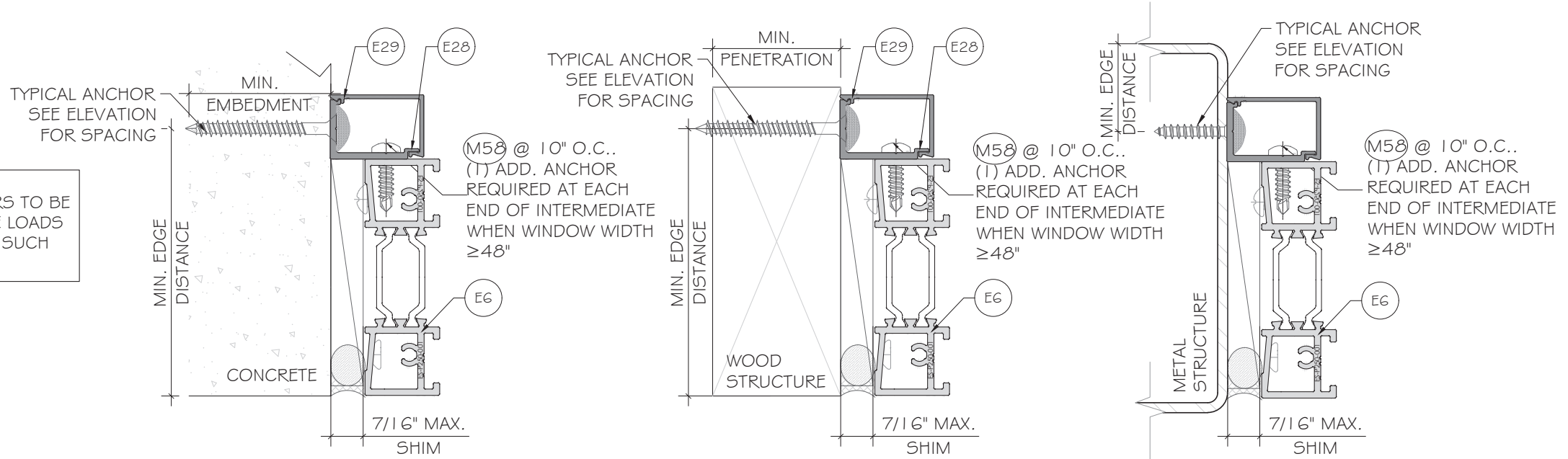
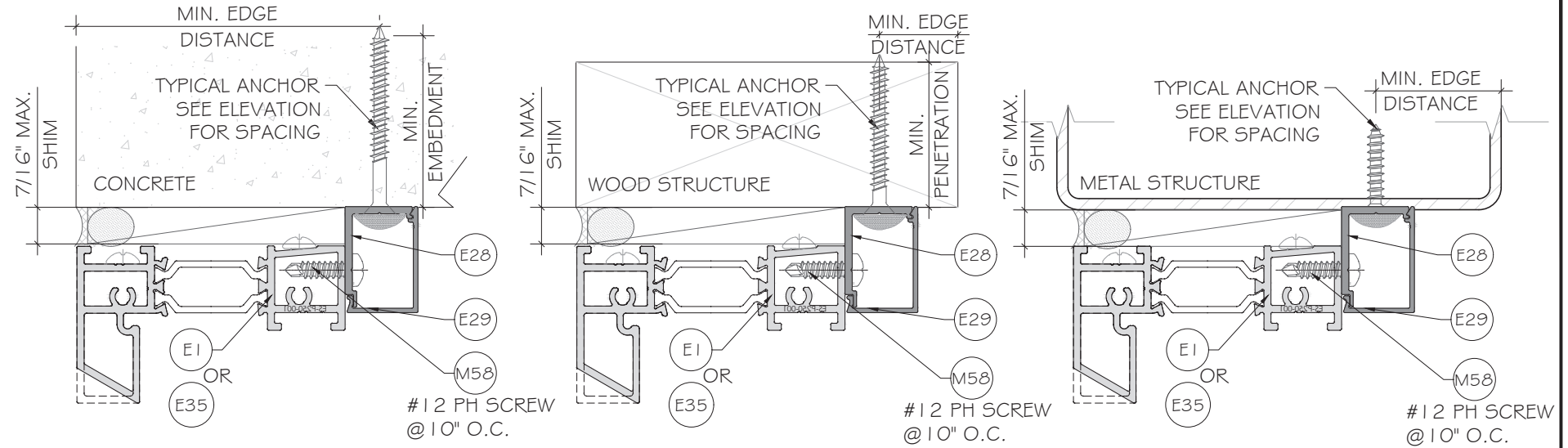
ANCHOR TYPE 'E' - 1/4" DIA. ULTRA-CON+ BY 'DEWALT'(Fu=164KSI, Fy=148KSI)
DIRECTLY INTO CONCRETE Pc=3KSI MIN.
W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL).

ANCHOR TYPE 'F' - 1/4" DIA. SEFL-DRILLING SCREWS, GRADE 5
(Fu=120KSI, Fy=92KSI)
INTO METAL STRUCTURES. (HEAD/JAMB/SILL).
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

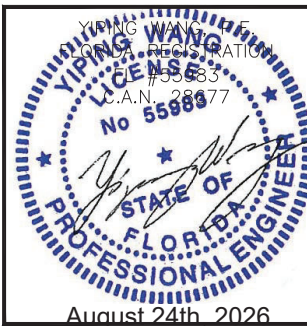
ALUMINUM: 3/16" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (Fy=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE = 2 1/2" MIN.
INTO WOOD = 1" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

NOTE:
METAL STRUCTURES OR WOOD STRUCTURES BY OTHERS TO BE
DESIGNED AND ANCHORED PROPERLY TO SUPPORT THE LOADS
IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH
LOADS TO THE BUILDING MAIN STRUCTURE.



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12781 MIRAMAR PKWY, STE. 301
MIRAMAR, FL 33027
P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

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E.S.WINDOWS, INC.
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ANCHOR OPTIONS (SEE ELEVATION FOR SPACING):

ANCHOR TYPE 'D' - 1/4" DIA. ULTRAACON+ BY 'DEWALT'(Fu= 164KSI, Fy= 148KSI)
INTO 2BY WOOD BUCKS STRUCTURE (SG=0.55 MIN.)
W/ 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL).
OR THRU 1 BY WOOD BUCK INTO CONCRETE.
W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL).

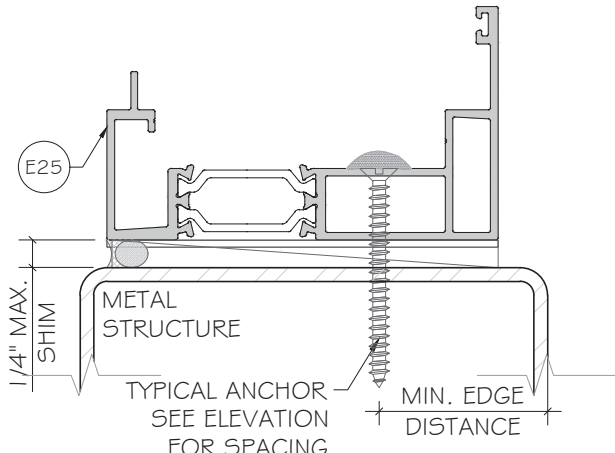
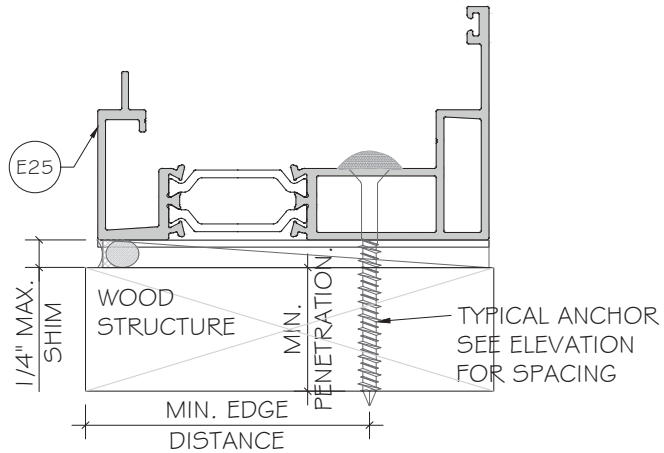
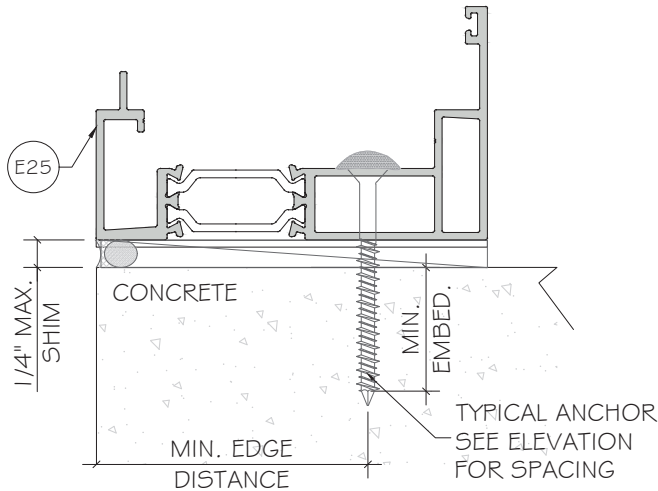
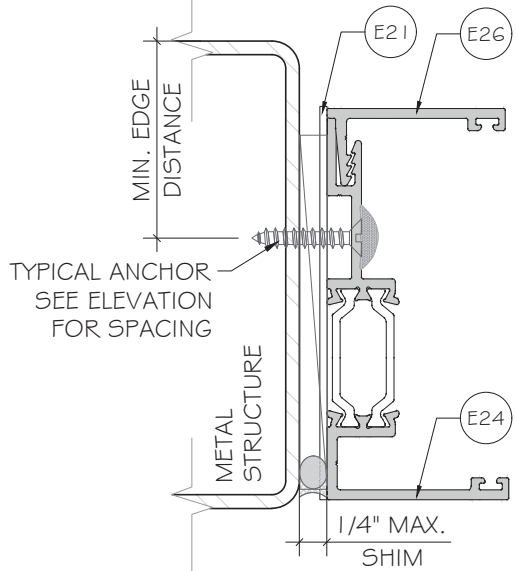
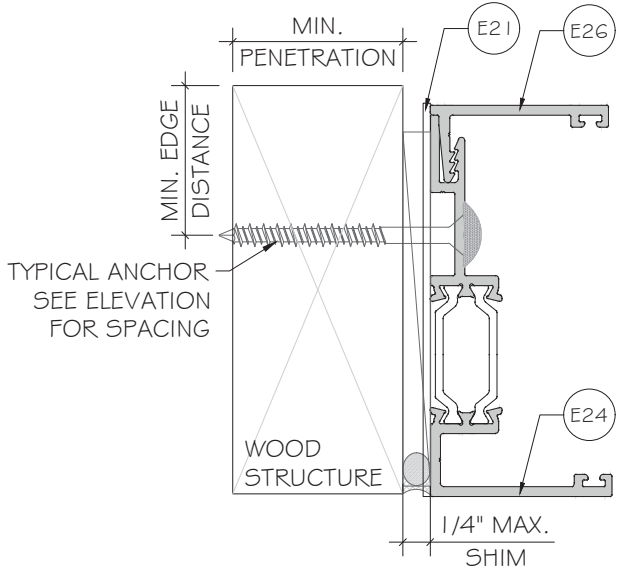
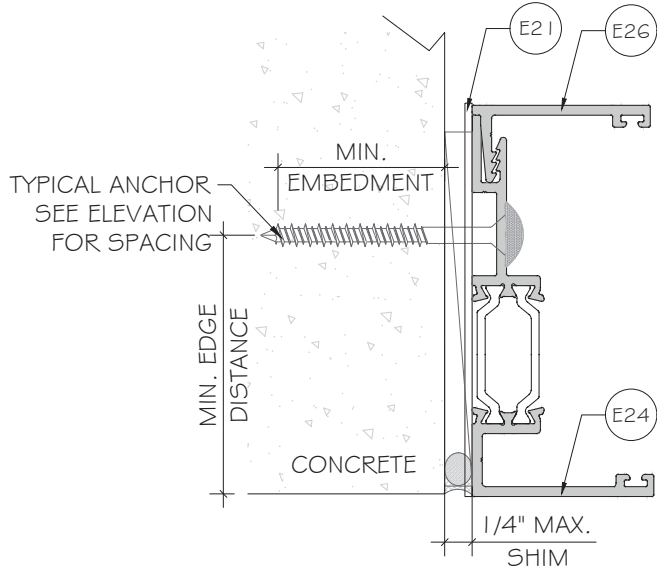
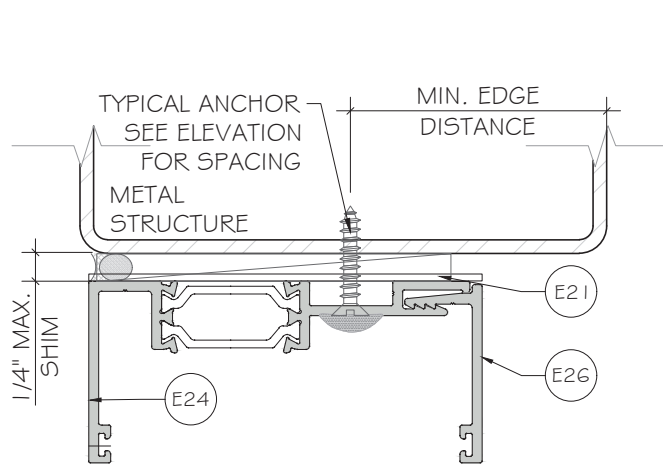
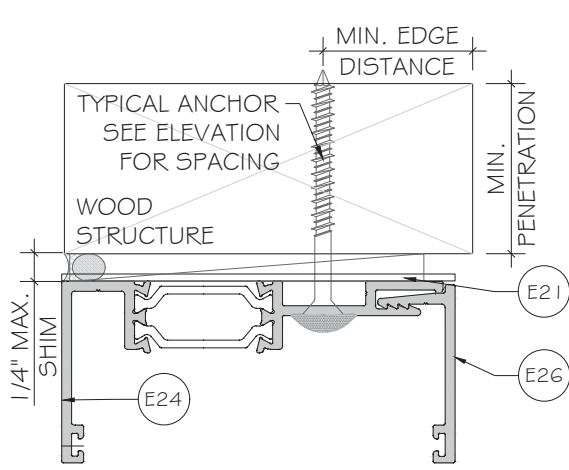
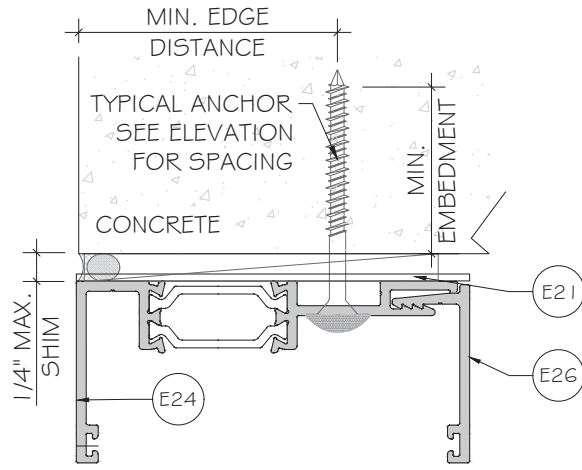
ANCHOR TYPE 'E' - 1/4" DIA. ULTRAACON+ BY 'DEWALT'(Fu= 164KSI, Fy= 148KSI)
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W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL).

ANCHOR TYPE 'F' - 1/4" DIA. SEFL-DRILLING SCREWS, GRADE 5
(Fu= 120KSI, Fy=92KSI)
INTO METAL STRUCTURES. (HEAD/JAMB/SILL).
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

ALUMINUM: 1/4" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (Fy=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE = 2 1/2" MIN.
INTO WOOD = 1" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

NOTE:
METAL STRUCTURES OR WOOD STRUCTURES BY OTHERS TO BE
DESIGNED AND ANCHORED PROPERLY TO SUPPORT THE LOADS
IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH
LOADS TO THE BUILDING MAIN STRUCTURE.



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Drawing No. AD21-54			
A3			
Sheet No. 7 OF 19			

ANCHOR TYPE 'A' - 3/16" DIA. ULTRACON BY 'DEWALT' (F_u=164 KSI, F_y=117 KSI)
 INTO 2BY WOOD BUCKS STRUCTURE (SG=0.55 MIN.)
 WITH 1 3/4" MIN. PENETRATION. (HEAD/JAMB/SILL).

ALUMINUM: 1/4" THK. MIN. (6063-T5, MIN.)
STEEL: 1/4" THK. MIN. (Fy=36ksi MIN.)

FLORIDA APPROVAL:

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YIANG WANG, P.E.
FLORIDA REGISTRATION
#55863
C.A.N. 28877
No 55863
STATE OF
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PROFESSIONAL ENGINEER

August 24th, 2026

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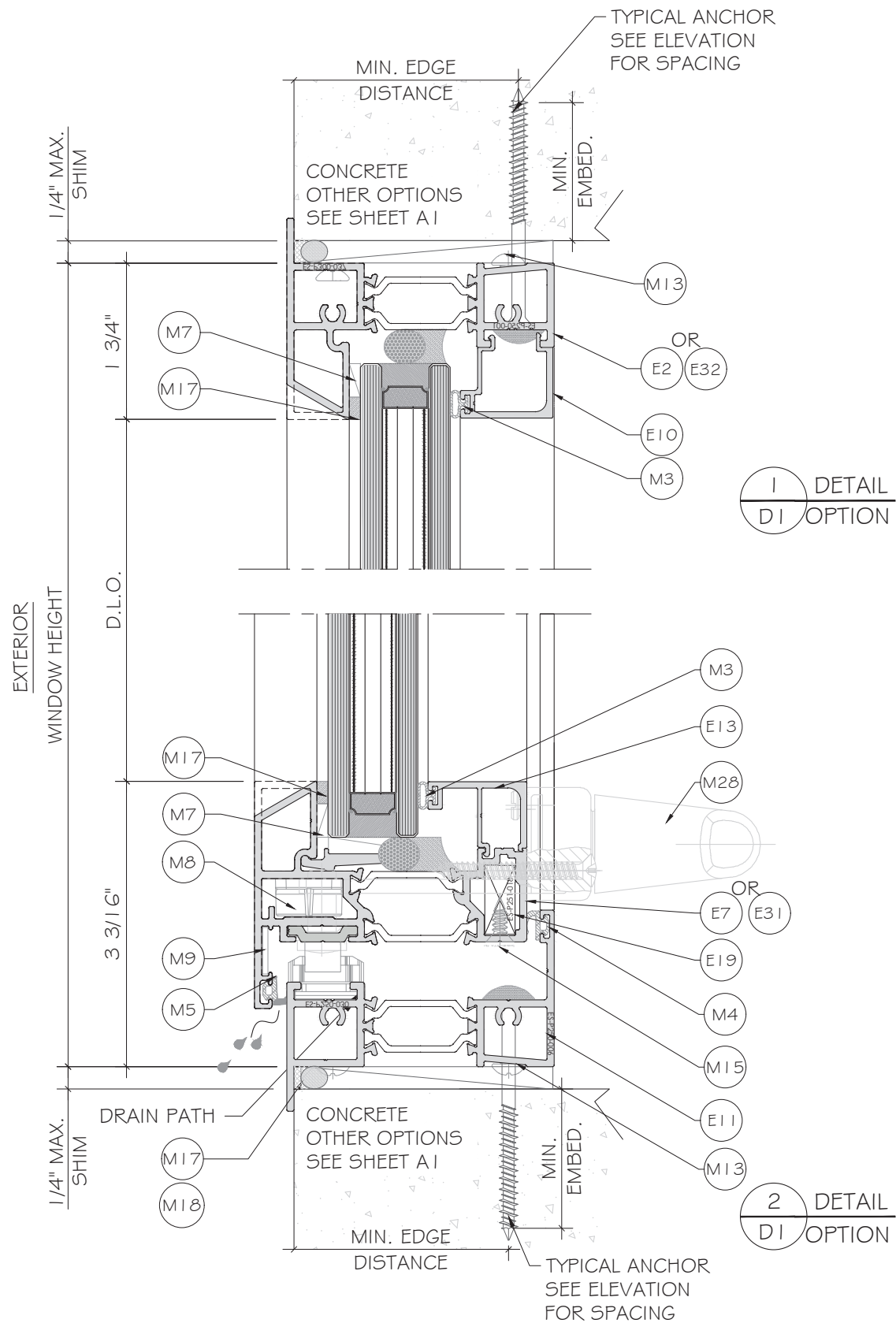
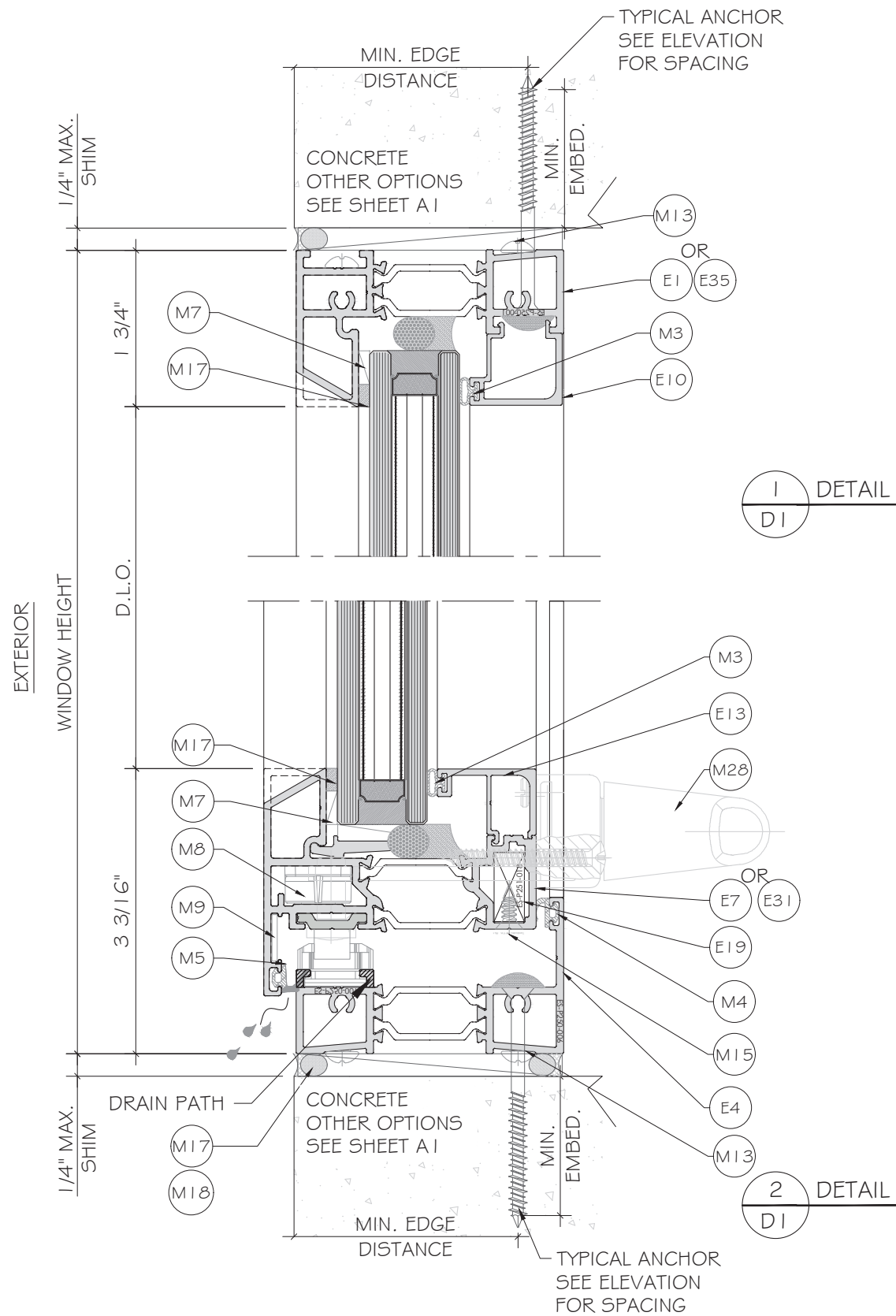
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www.MCYEngineering.com mcy@mcyengineering.com



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YIPING WANG
Professional Engineer
No 55983
August 24th, 2026

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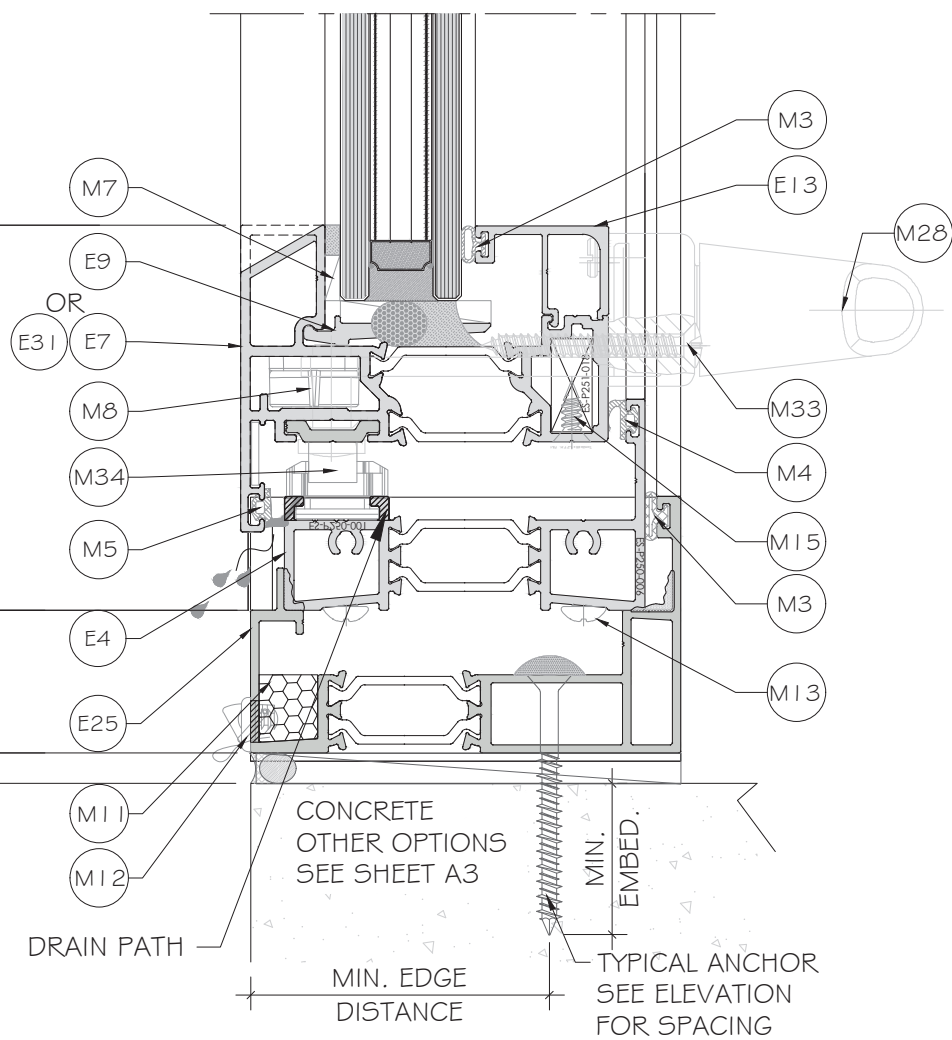
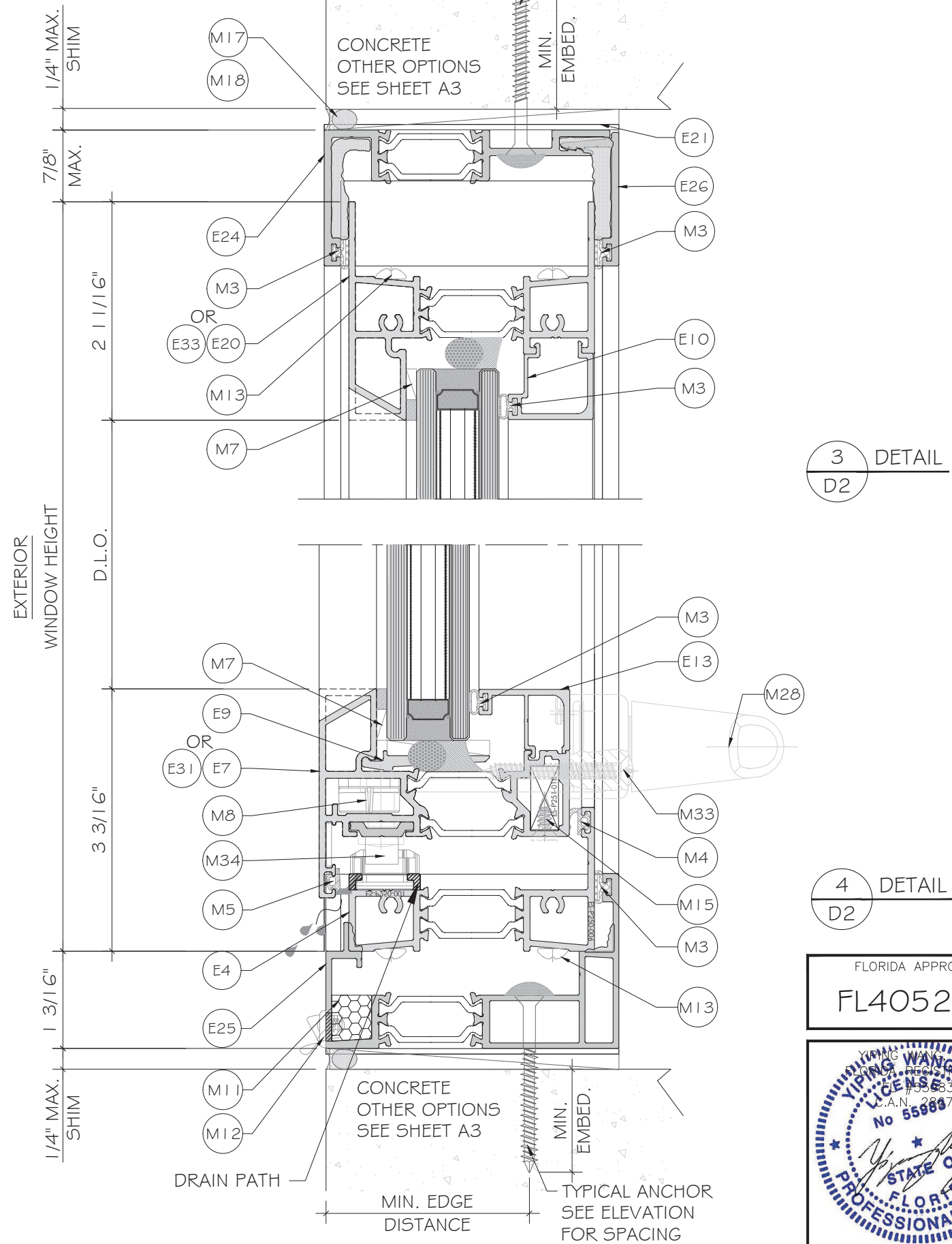
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R4	06.03.2025	JAMES	REVISION

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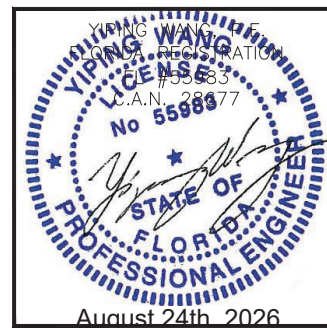
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AD21-54

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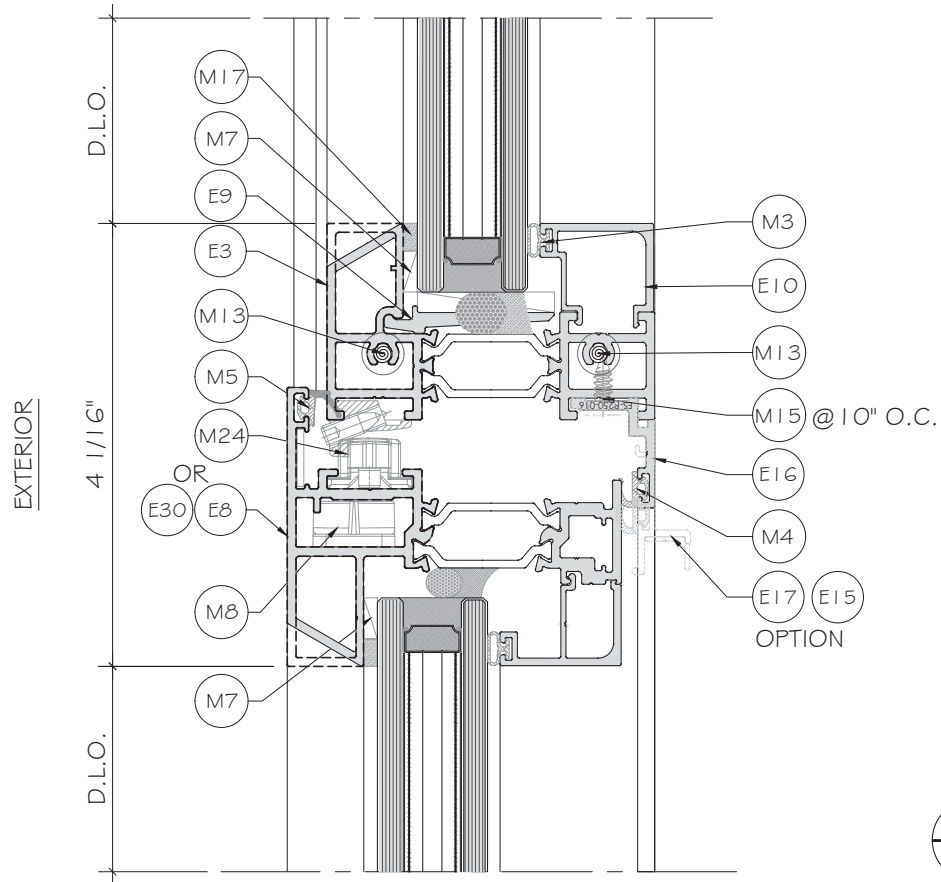
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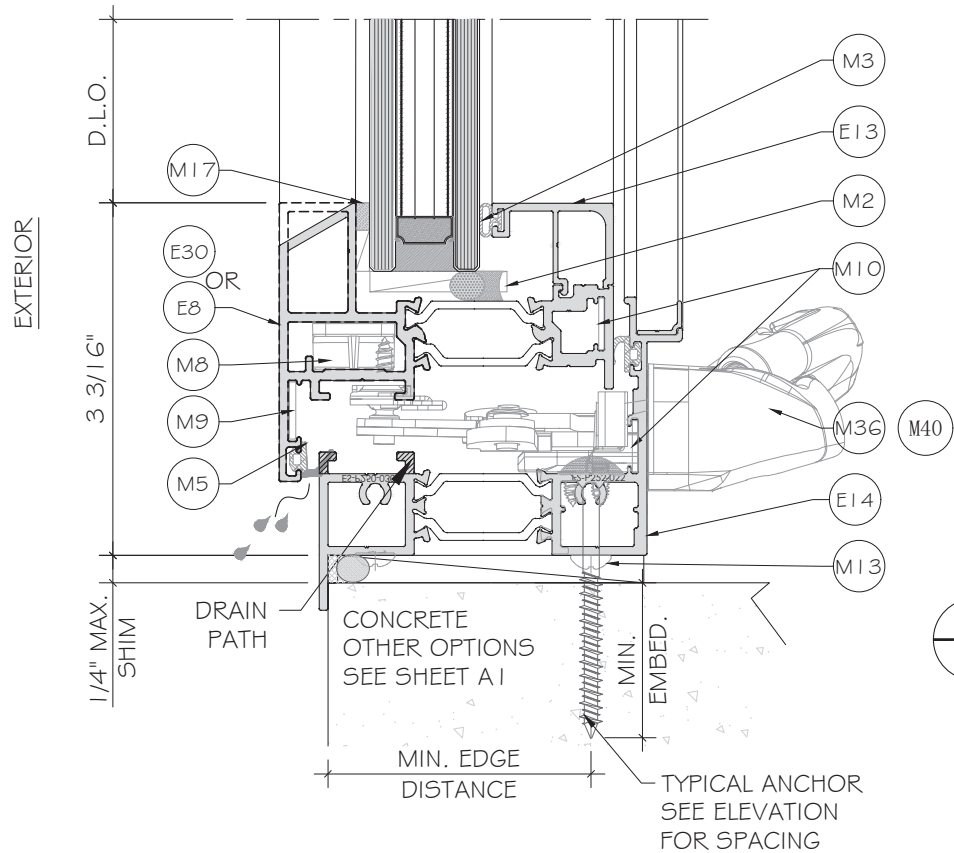
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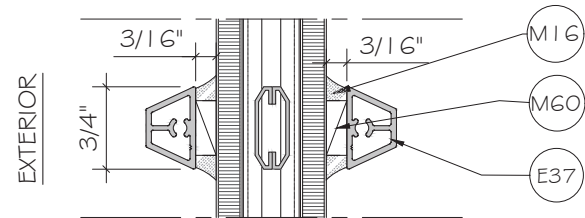
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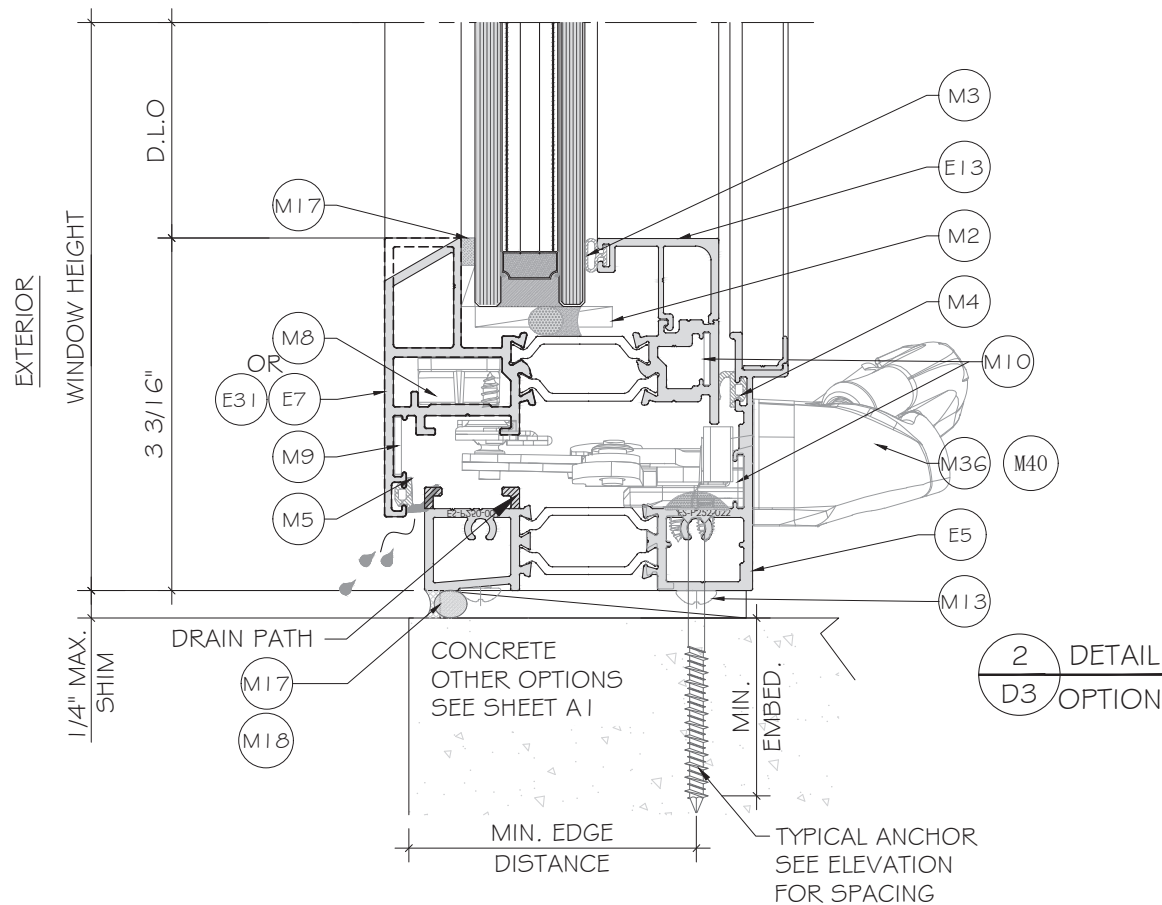
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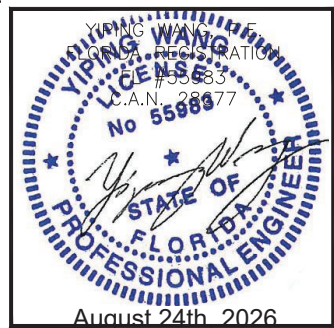


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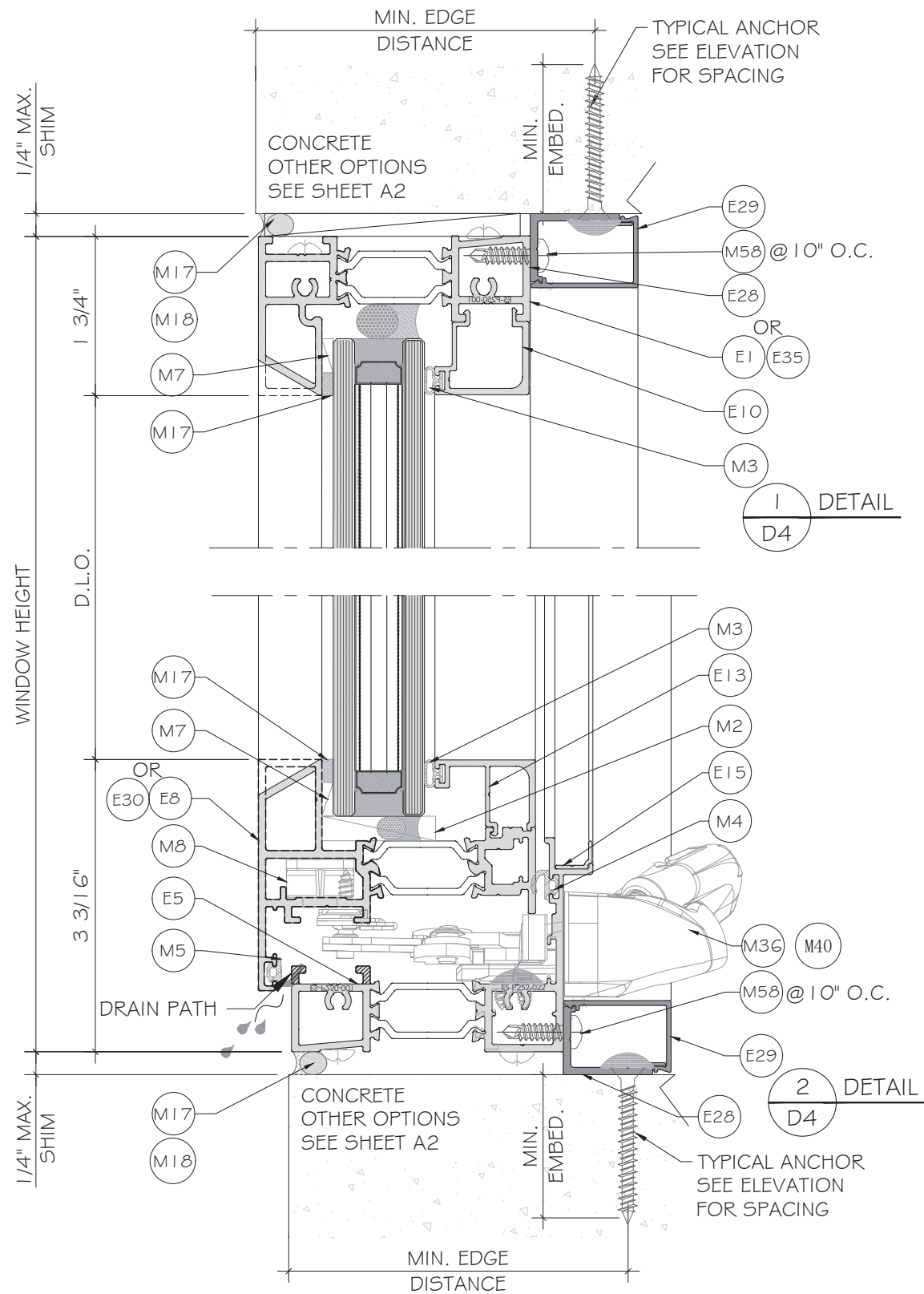
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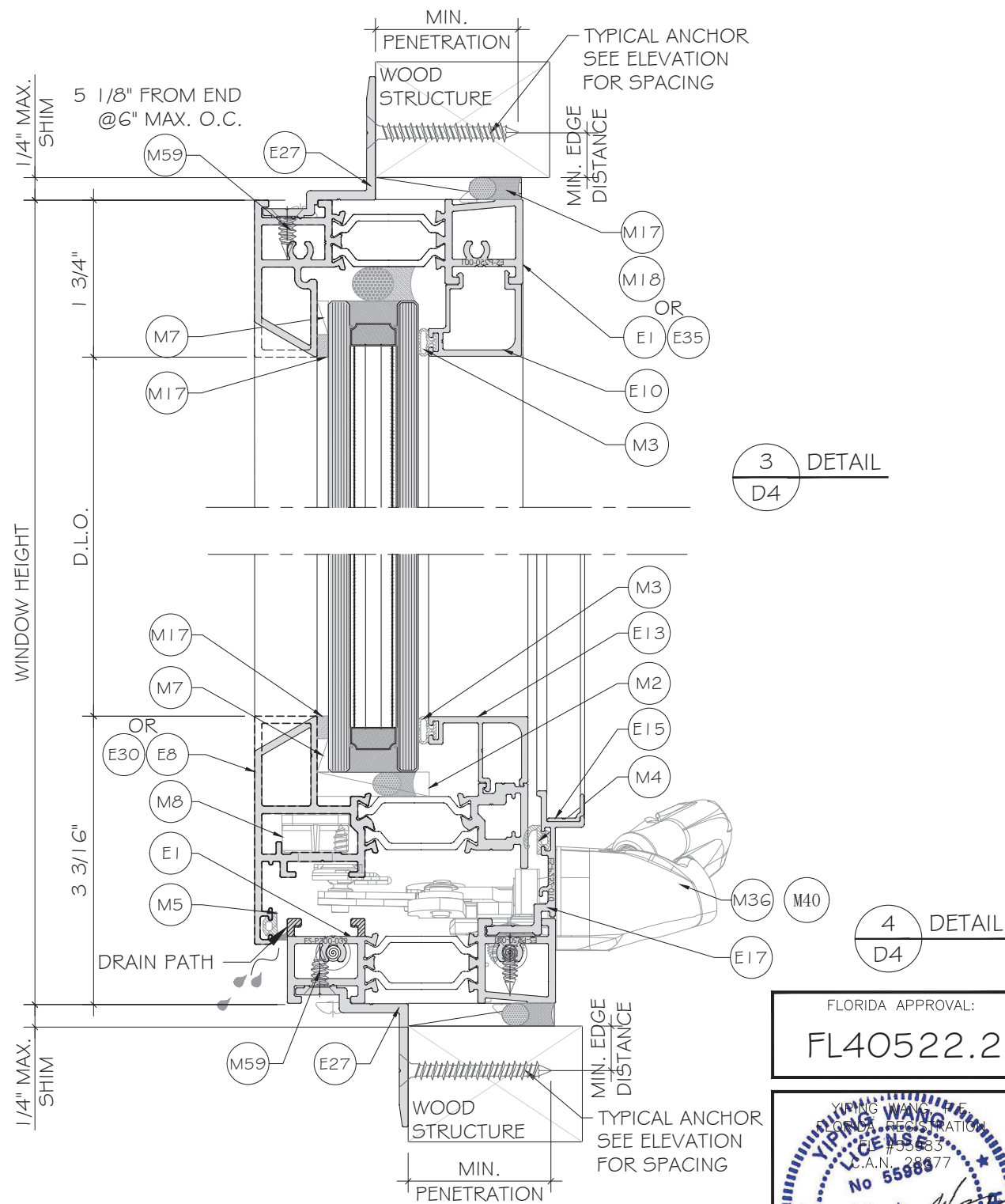
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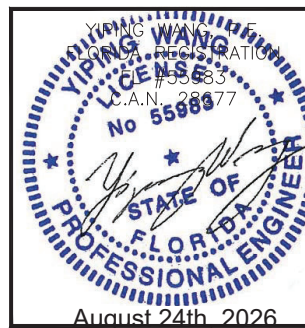
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EXTERIOR



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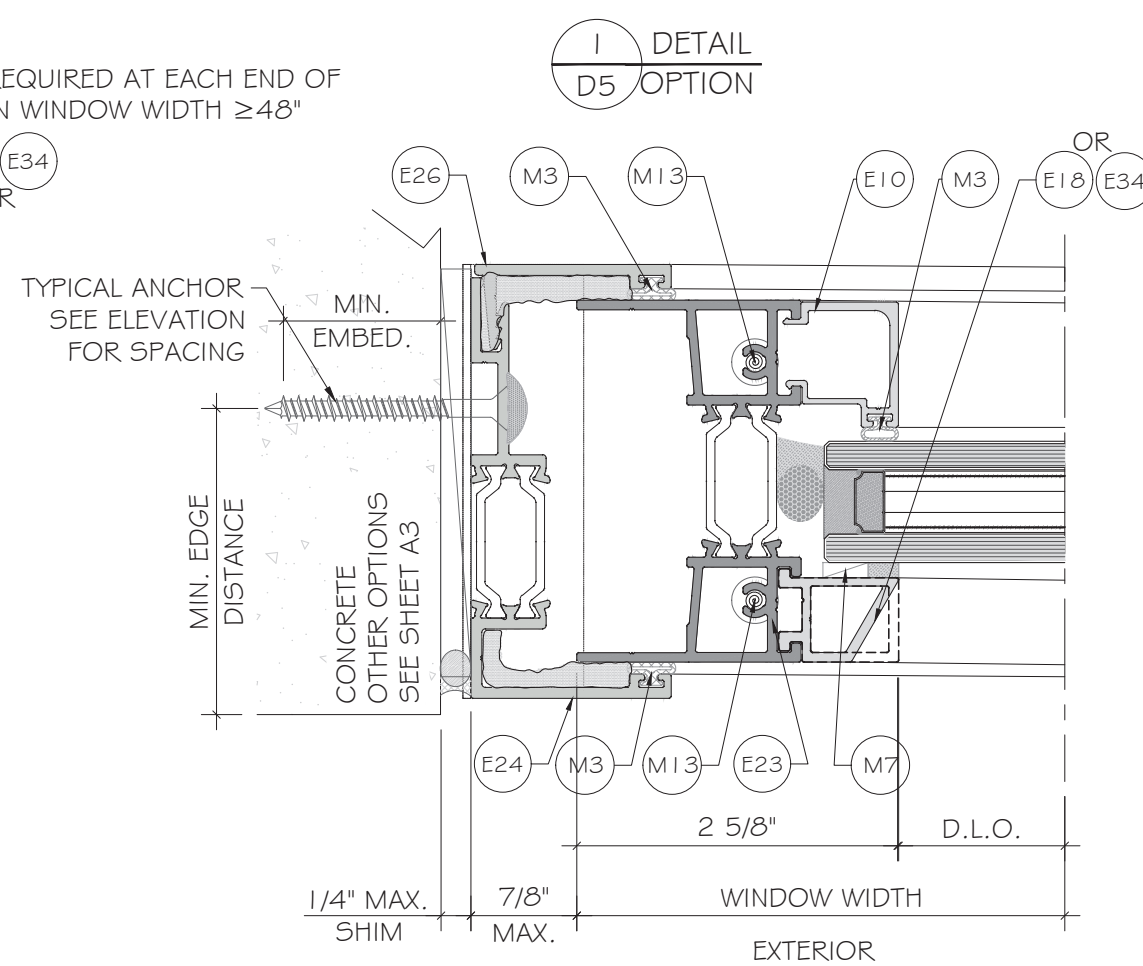
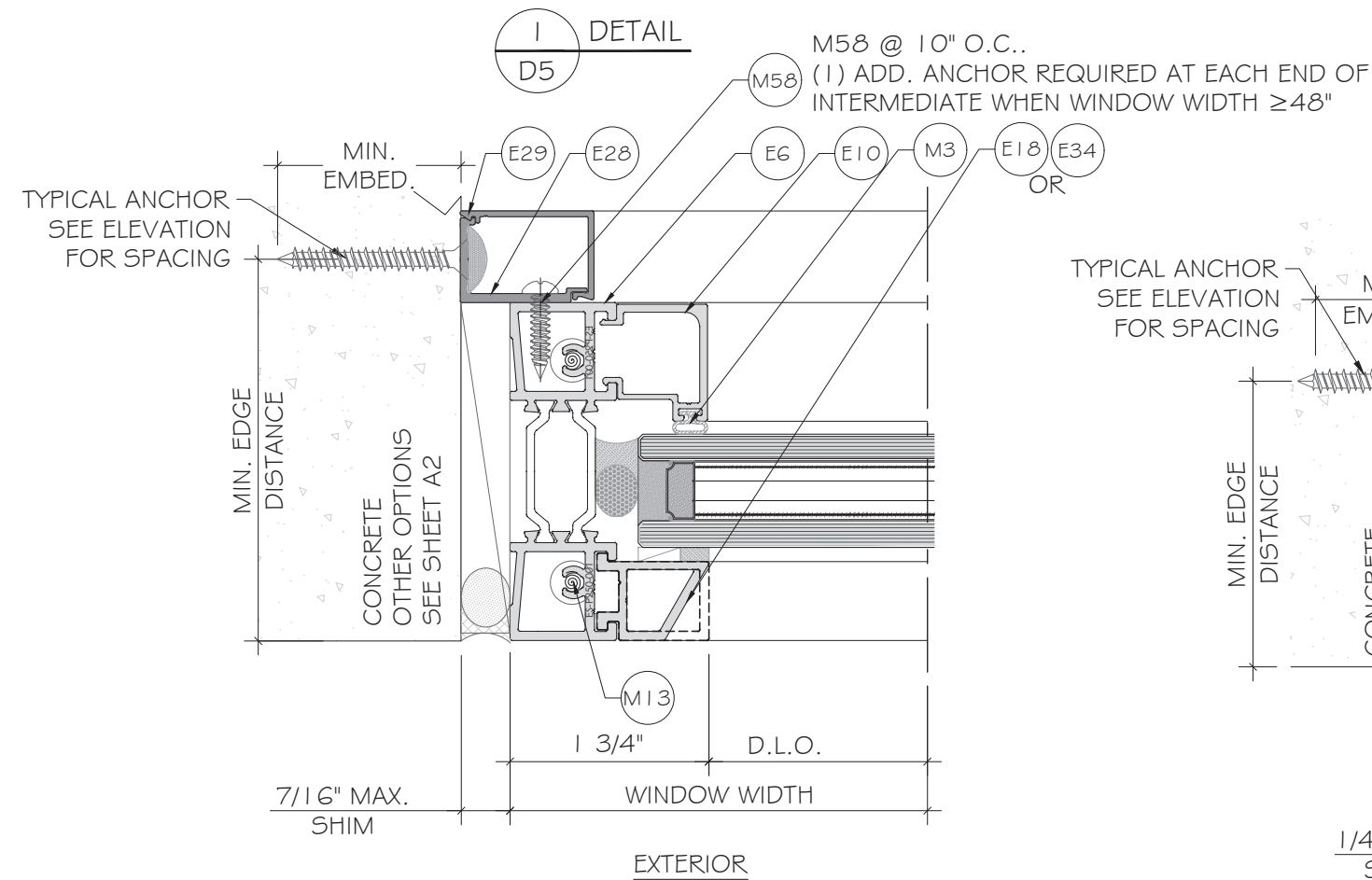
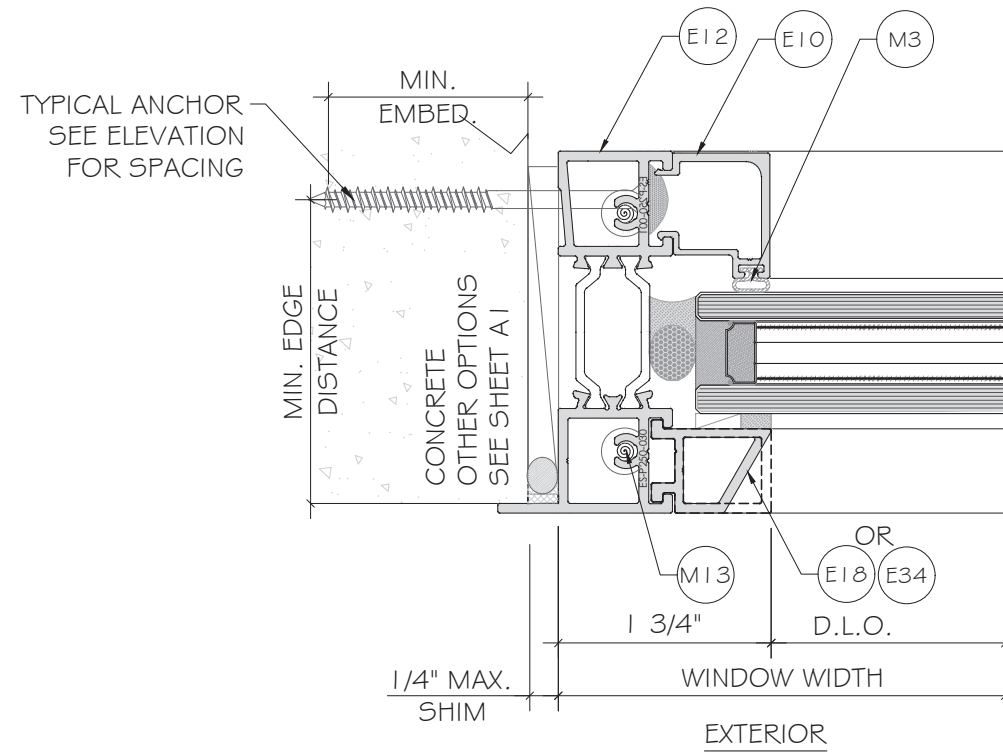
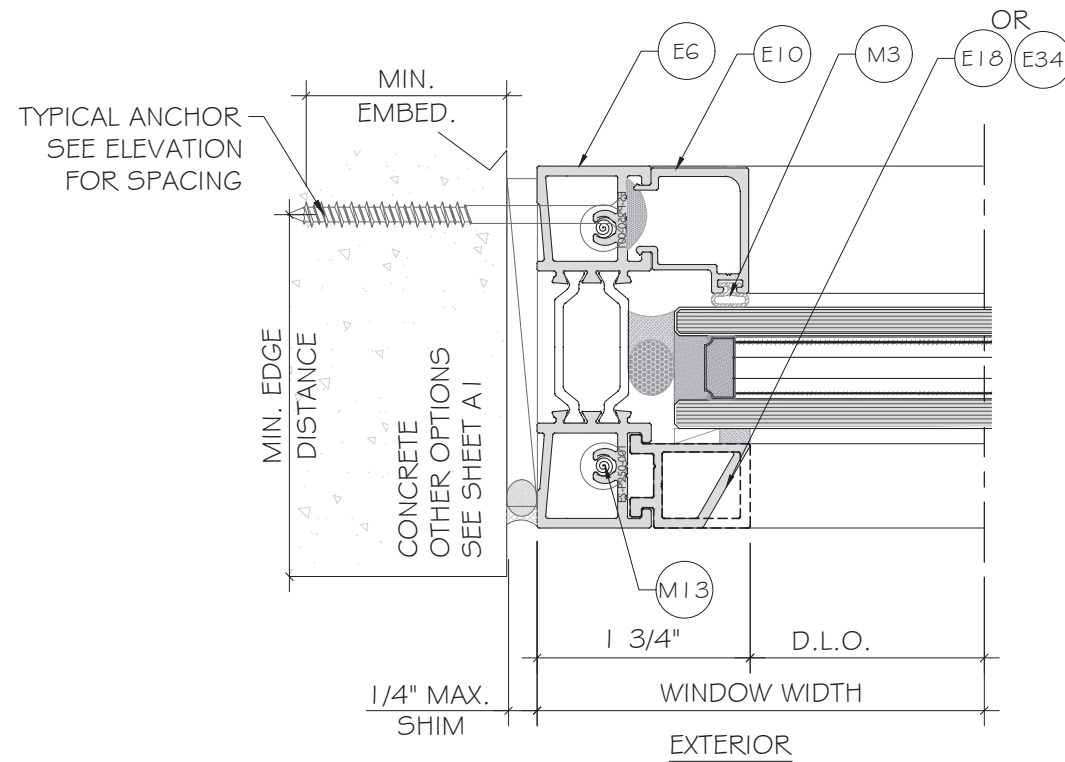
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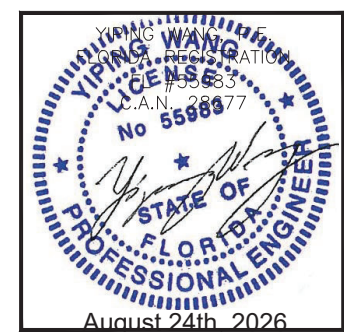
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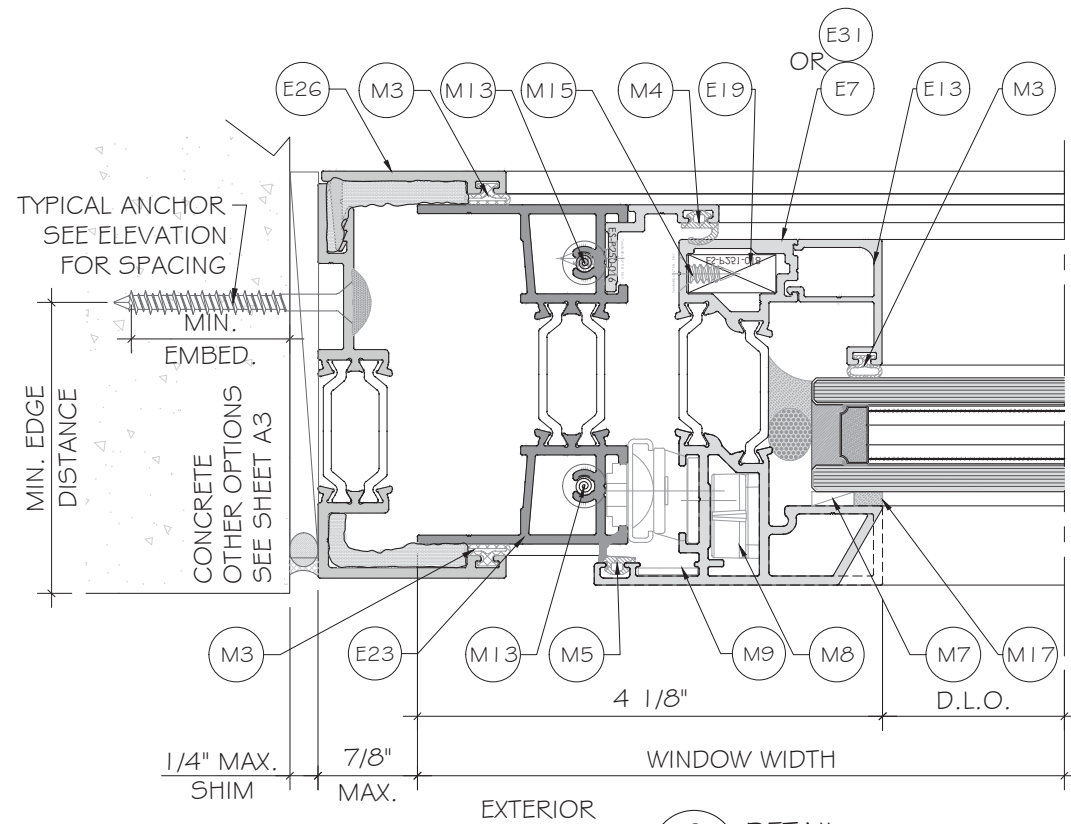
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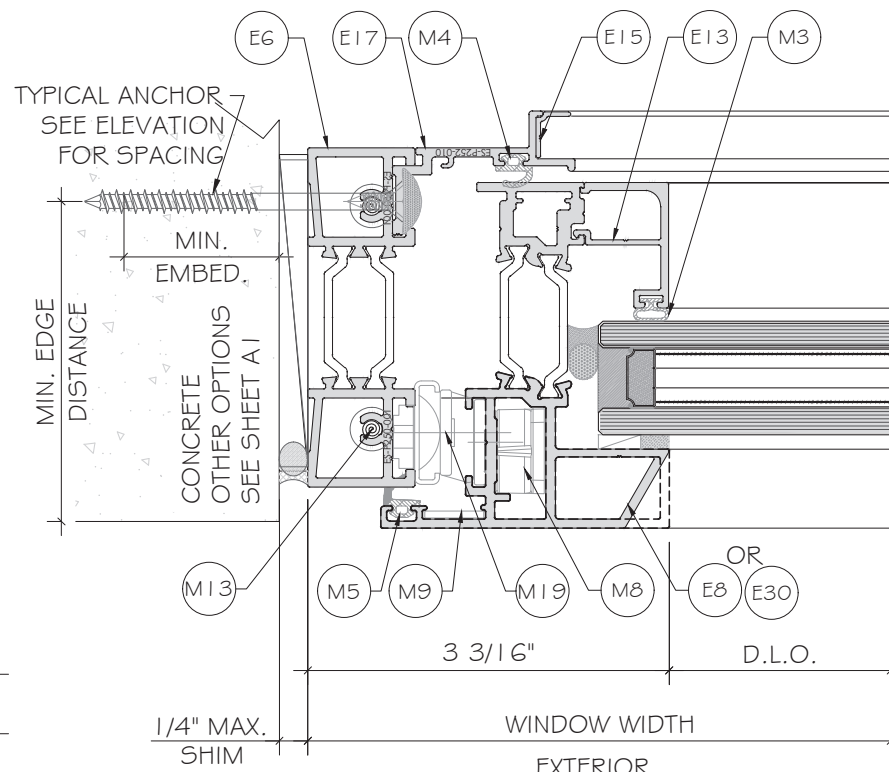
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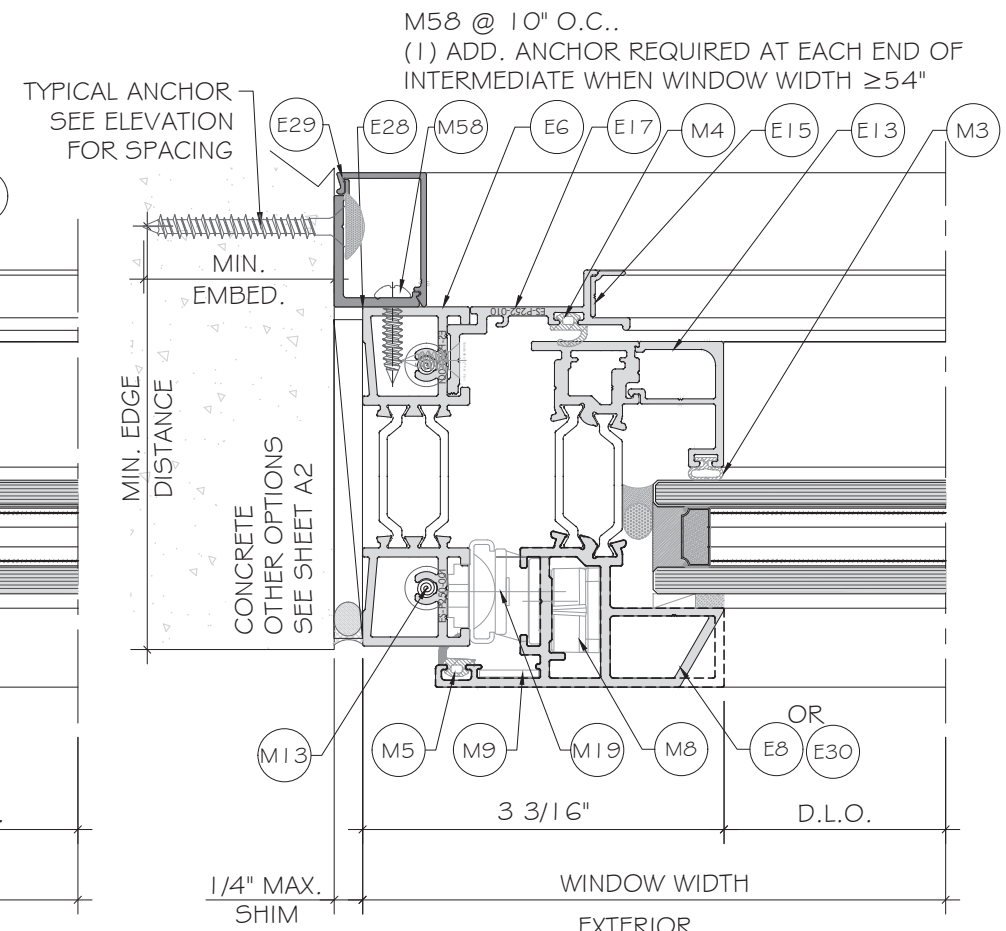
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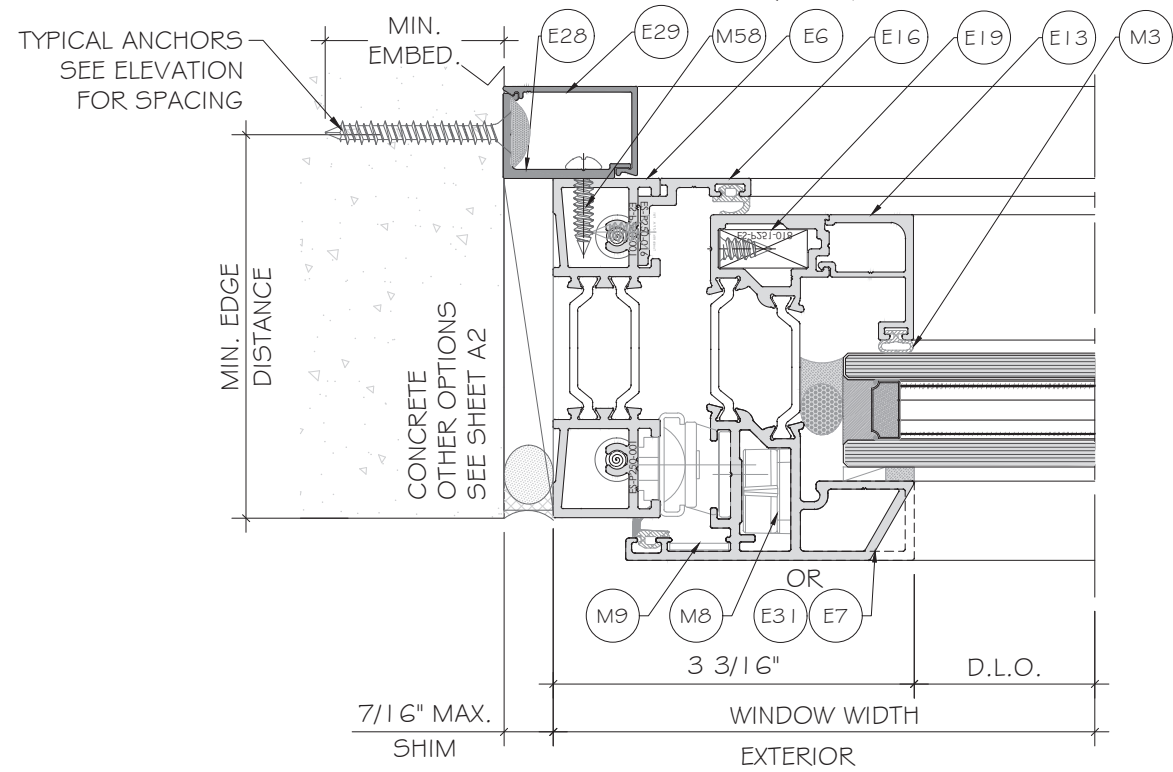
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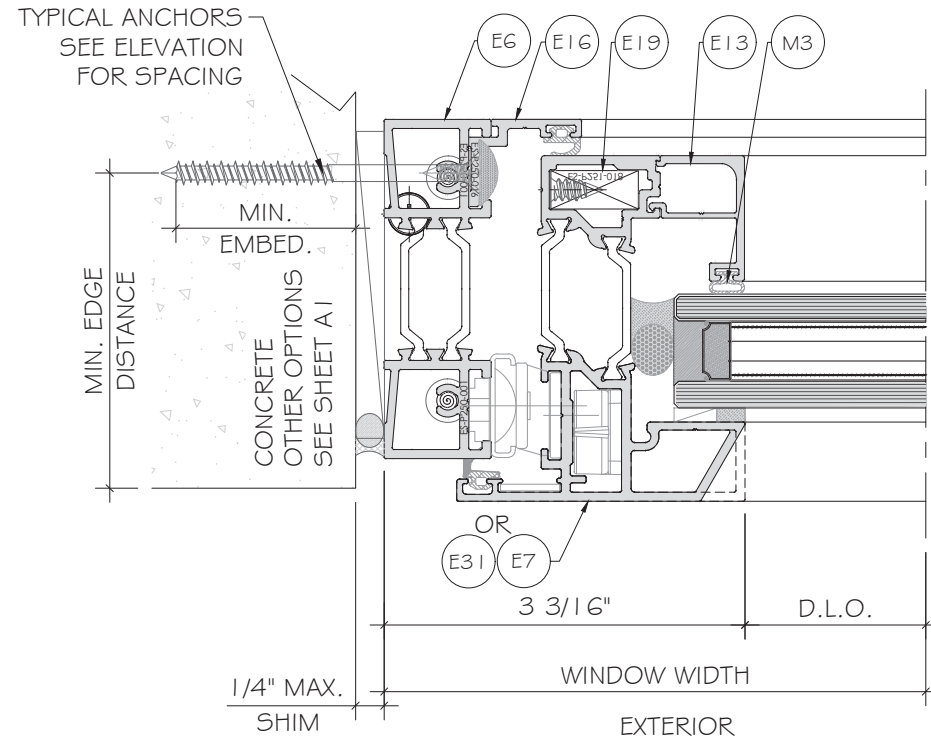
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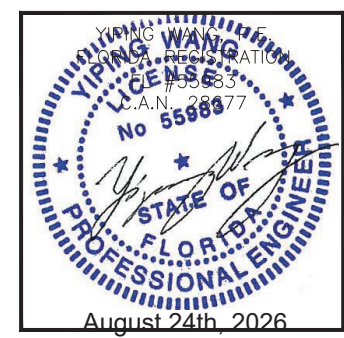


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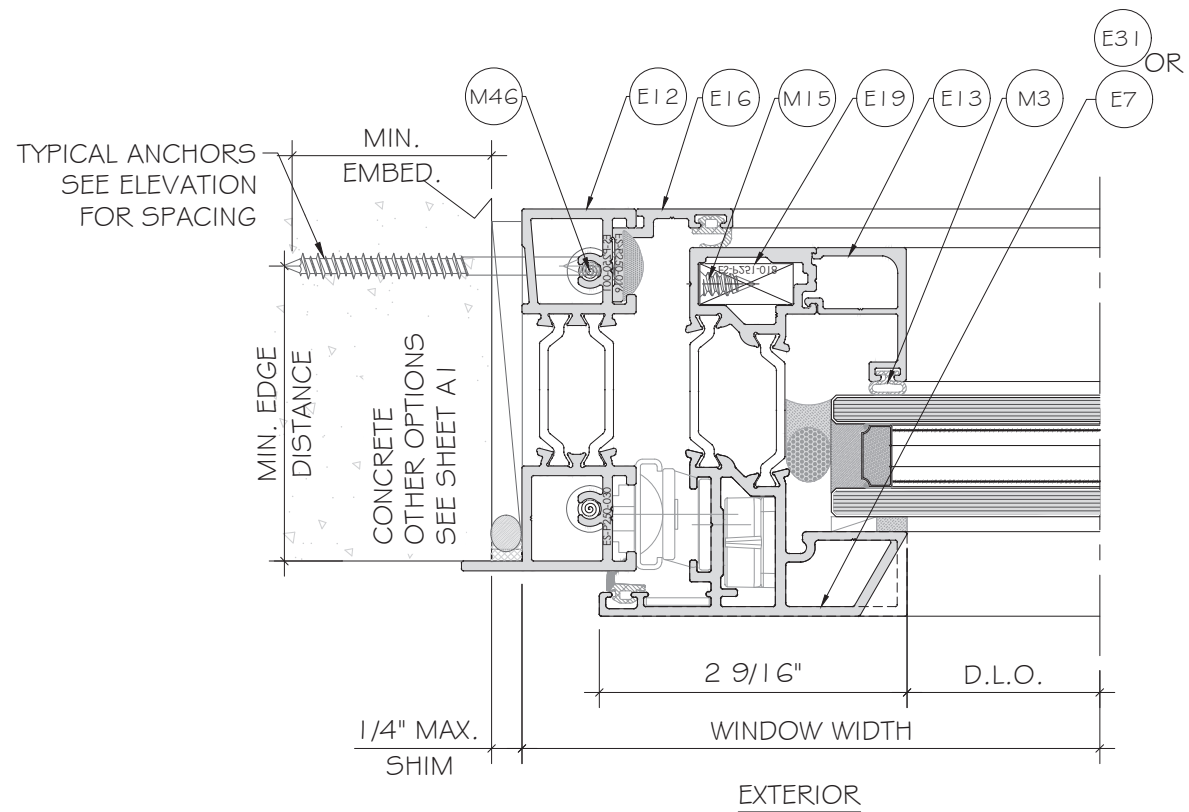
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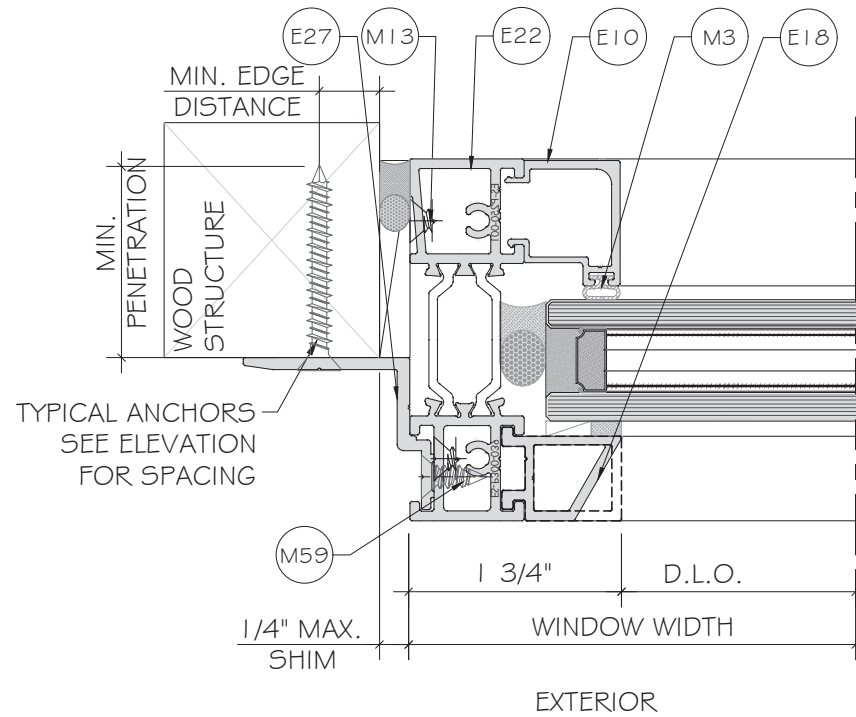
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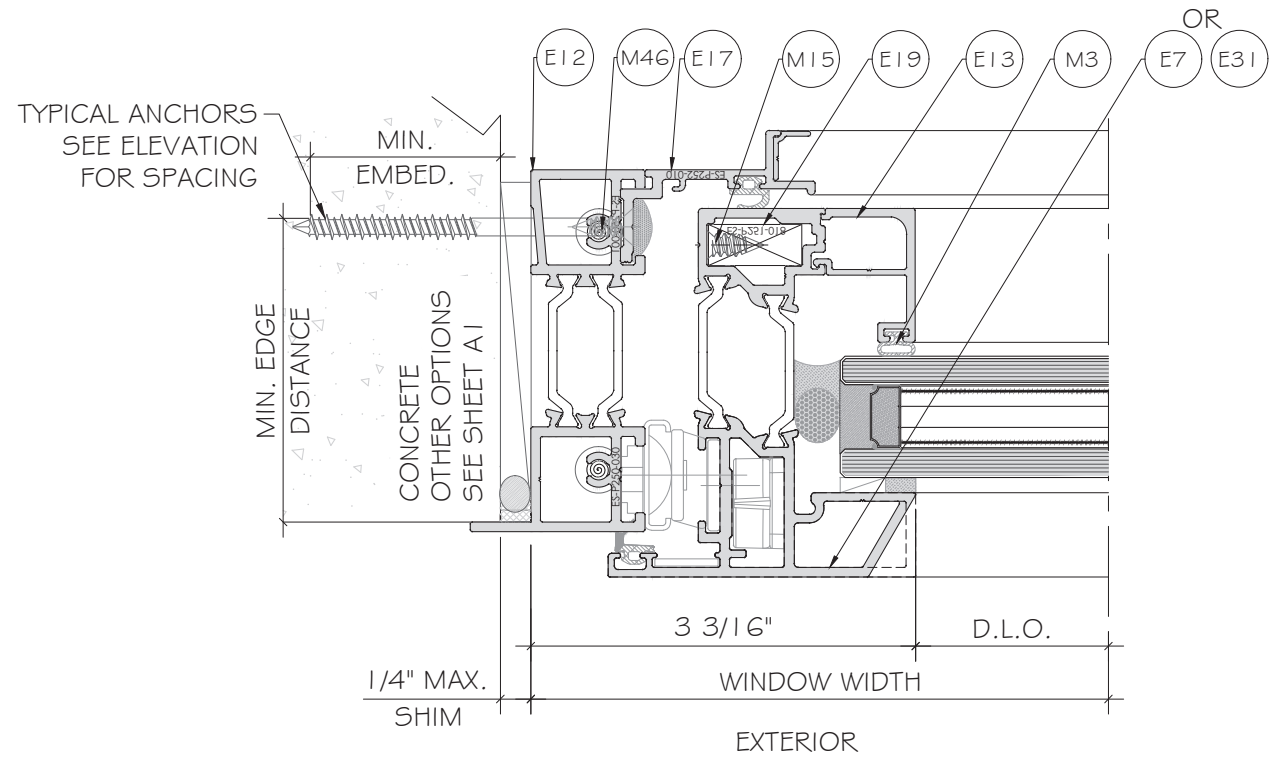
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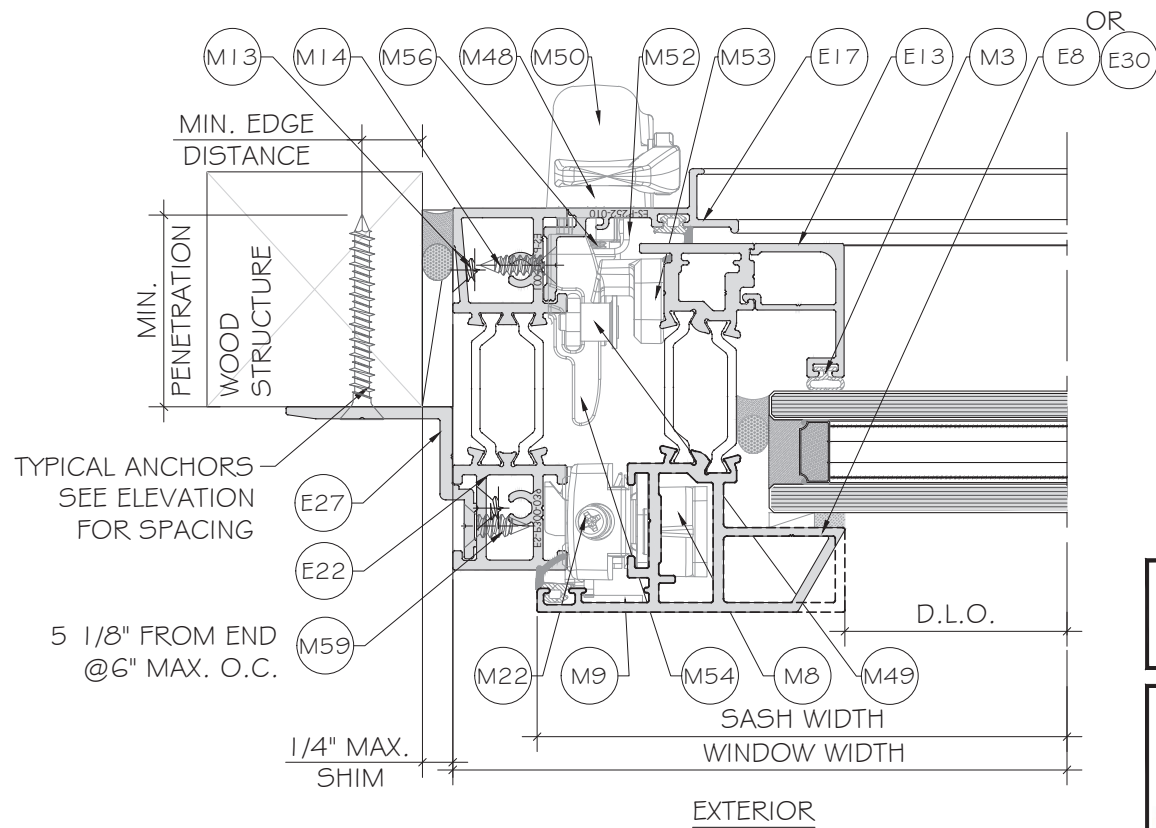
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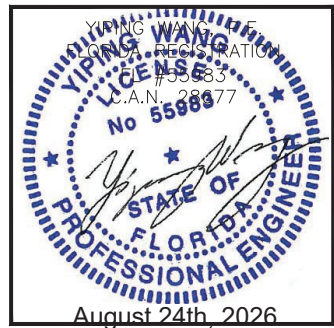


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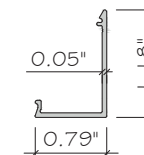
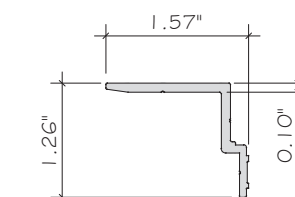
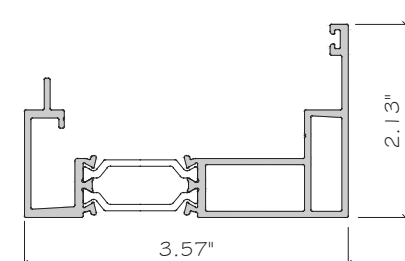
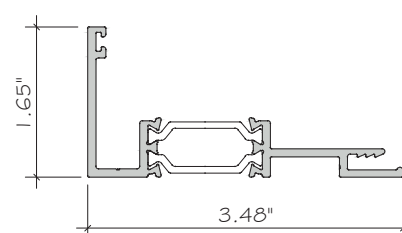
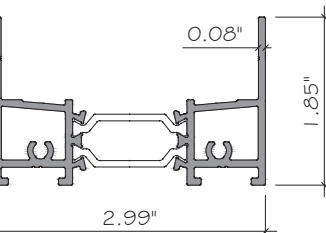
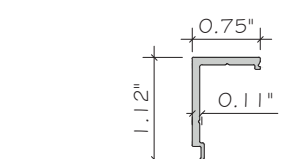
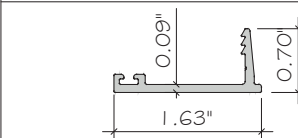
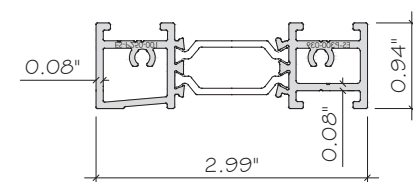
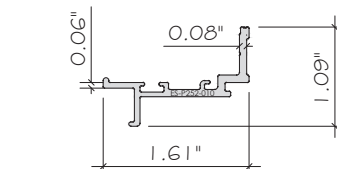
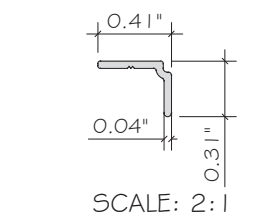
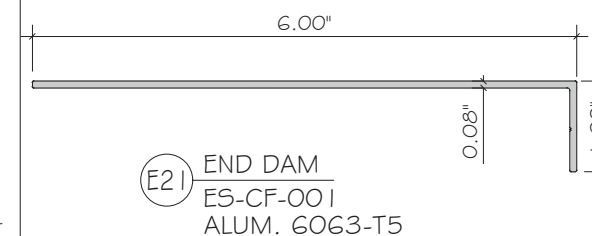
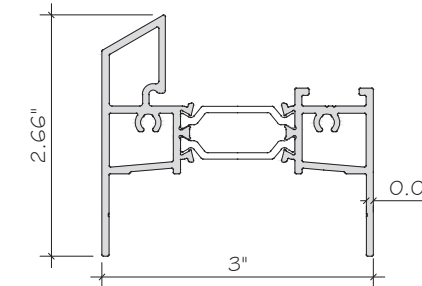
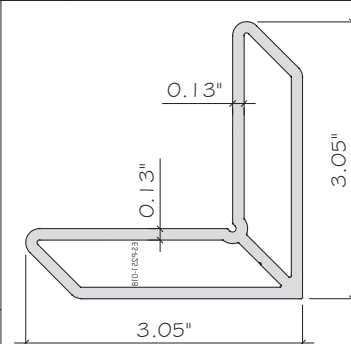
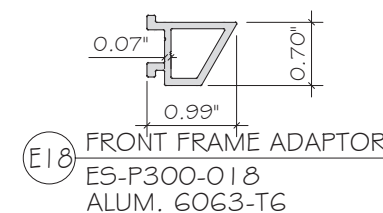
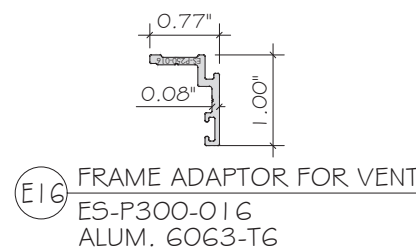
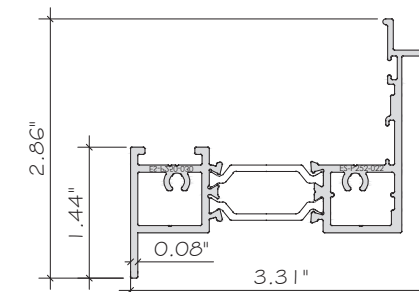
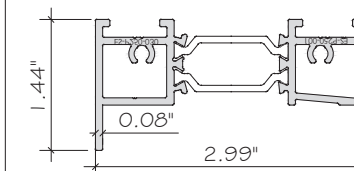
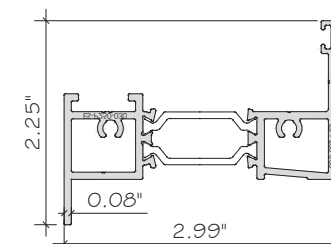
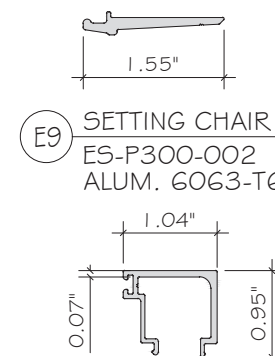
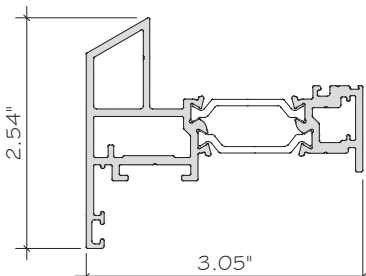
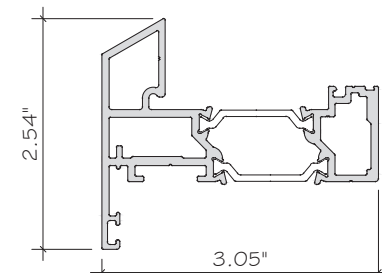
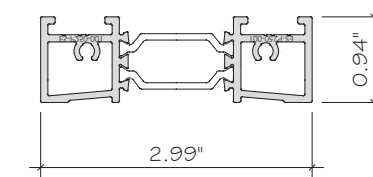
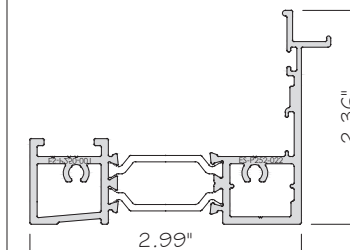
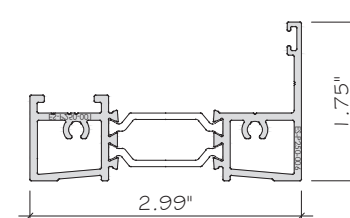
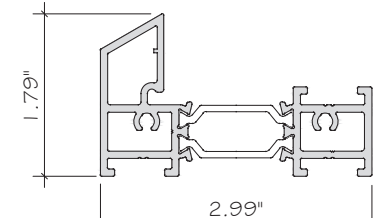
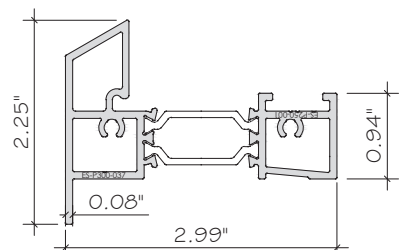
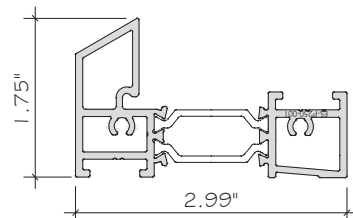
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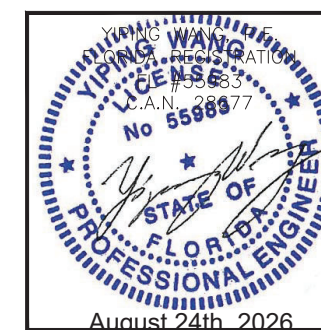
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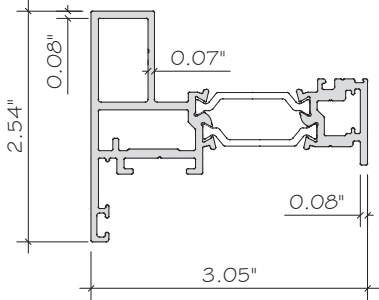
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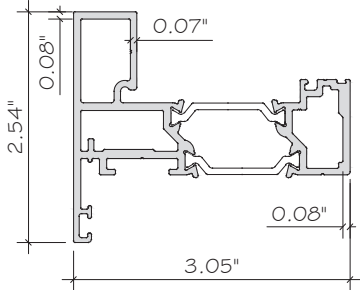
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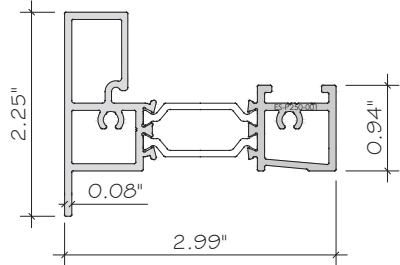
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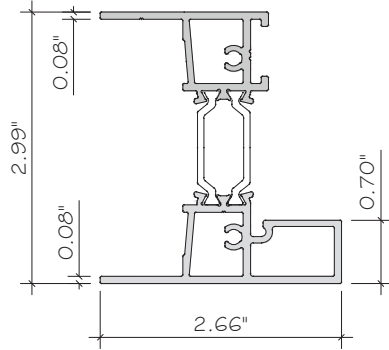
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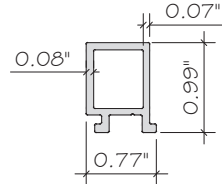
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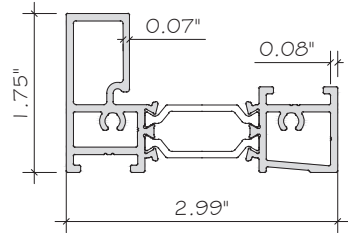
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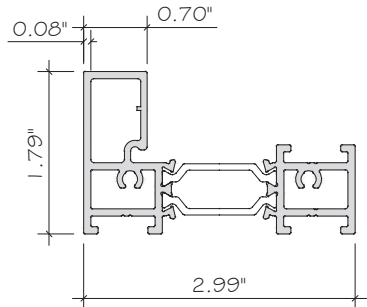
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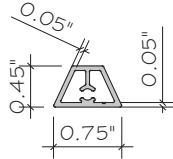
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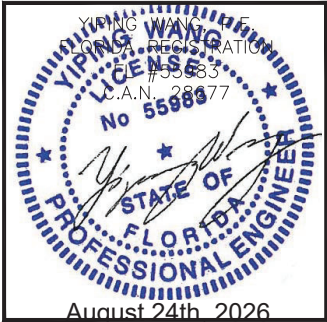


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