

ES.WINDOWS
ES-P300 AWNING WINDOW - L.M.I & S.M.I

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 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT SYSTEM TO BE USED UP TO 30FT OF GRADE. SMALL MISSILE IMPACT SYSTEM TO BE USE ABOVE 30FT OF GRADE. IMPACT SHUTTERS ARE NOT REQUIRED.
- 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.

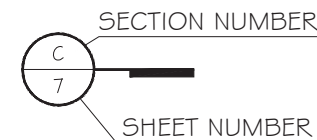
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, 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#2 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION. SEE SHEET G1 FOR APPROVED DESIGN LOAD.
- STEP 3: ANCHOR OPTION SEE SHEET A1 TO A4. ANCHOR SPACING SEE SHEET E1#2.
- 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

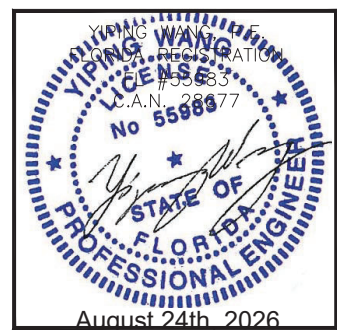


LIMITATIONS OF USE

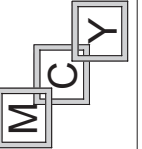
- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED THE PRODUCT 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 BARE THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL#40522.1



MCY ENGINEERING, INC.
GLAZING CONSULTANTS



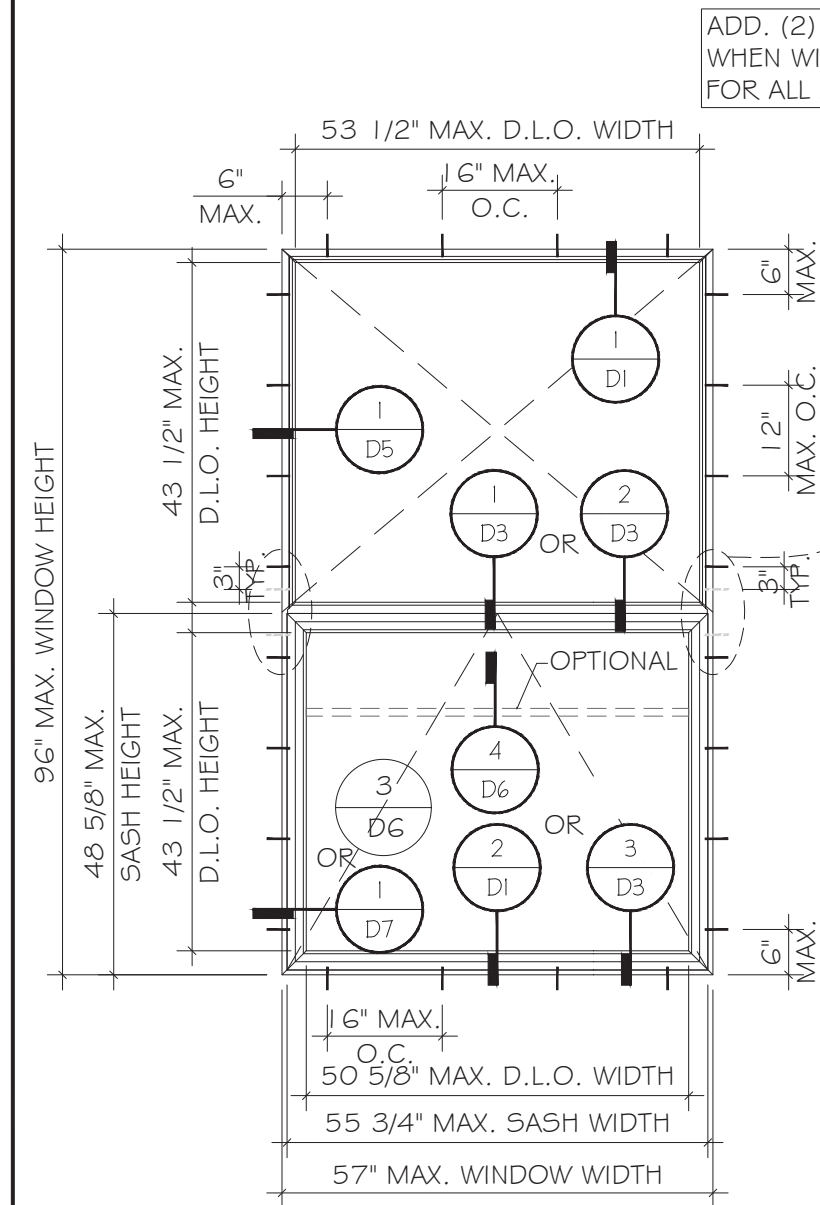
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10653 NE QUAYBRIDGE CT.
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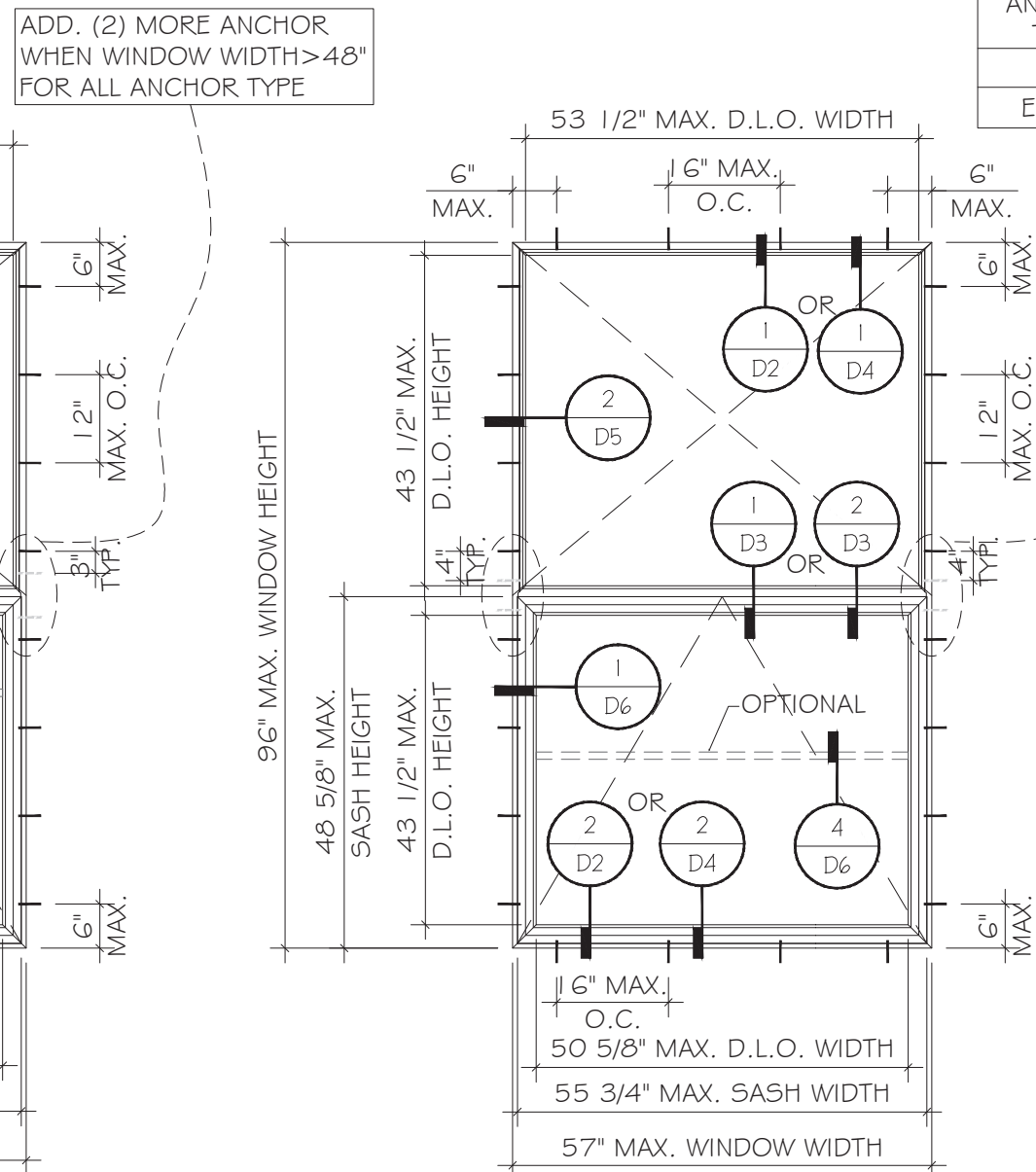
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				R6	03.27.2026	JAMES	REVISION				
				Rev. No.	Date	Drawn By	Description				
Drawn Date <i>08.24.2026</i>				Scale <i>AS SHOWN</i>							
DRAWING NO.											
AD21-53											
COVER											
Sheet No.											
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DIRECT ANCHOR

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.
 APPLY TO ALL GLASS ON SHEET G1.
 DESIGN LOAD SEE CHART ON SHEET G1.

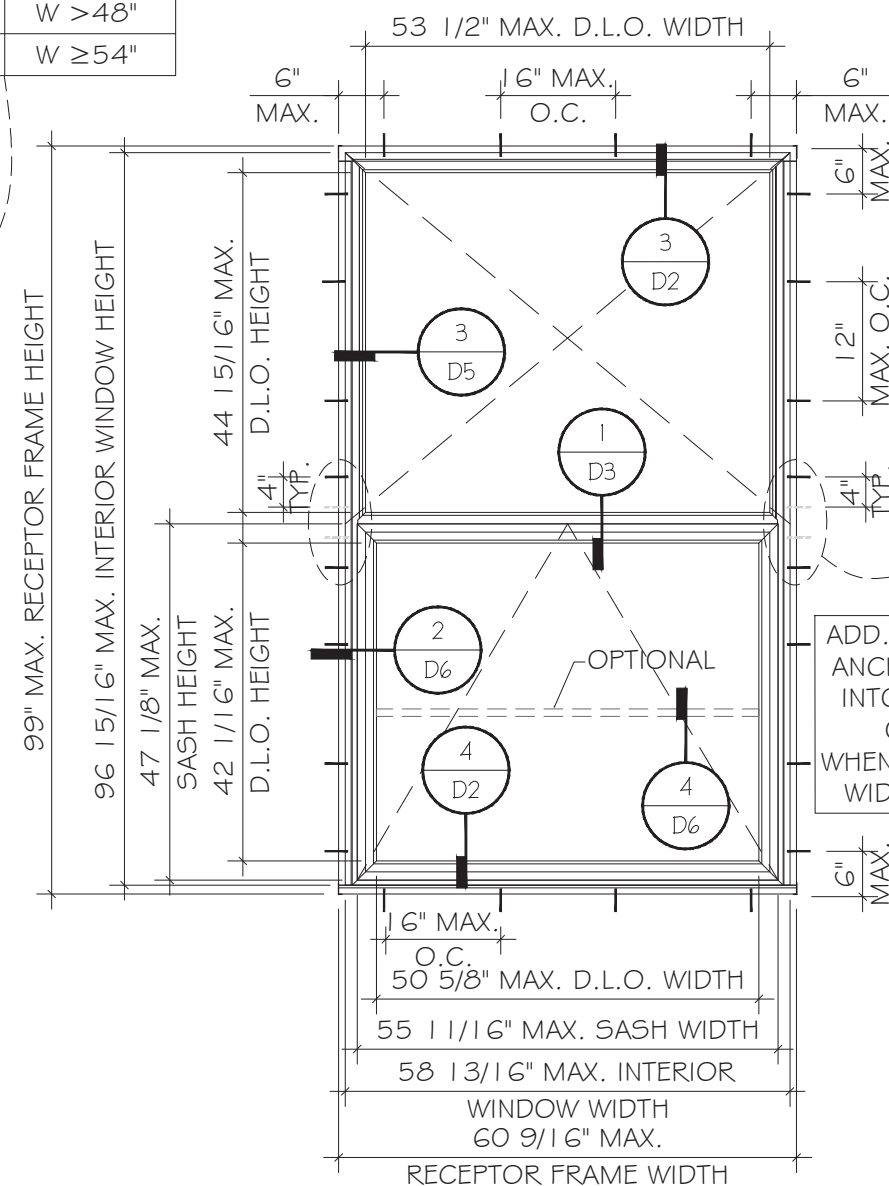


ANCHOR WITH STRAP

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.
 APPLY TO ALL GLASS ON SHEET G1.
 DESIGN LOAD SEE CHART ON SHEET G1.

ANCHOR TYPE	WINDOW WIDTH
D	W > 48"
E & F	W ≥ 54"

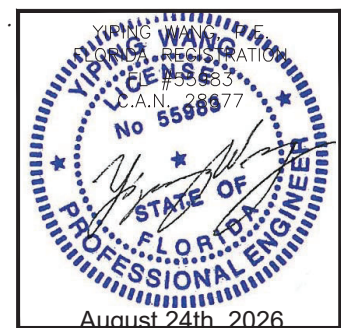


ANCHOR WITH RECEPTOR

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.
 APPLY TO ALL GLASS ON SHEET G1.
 DESIGN LOAD SEE CHART ON SHEET G1.

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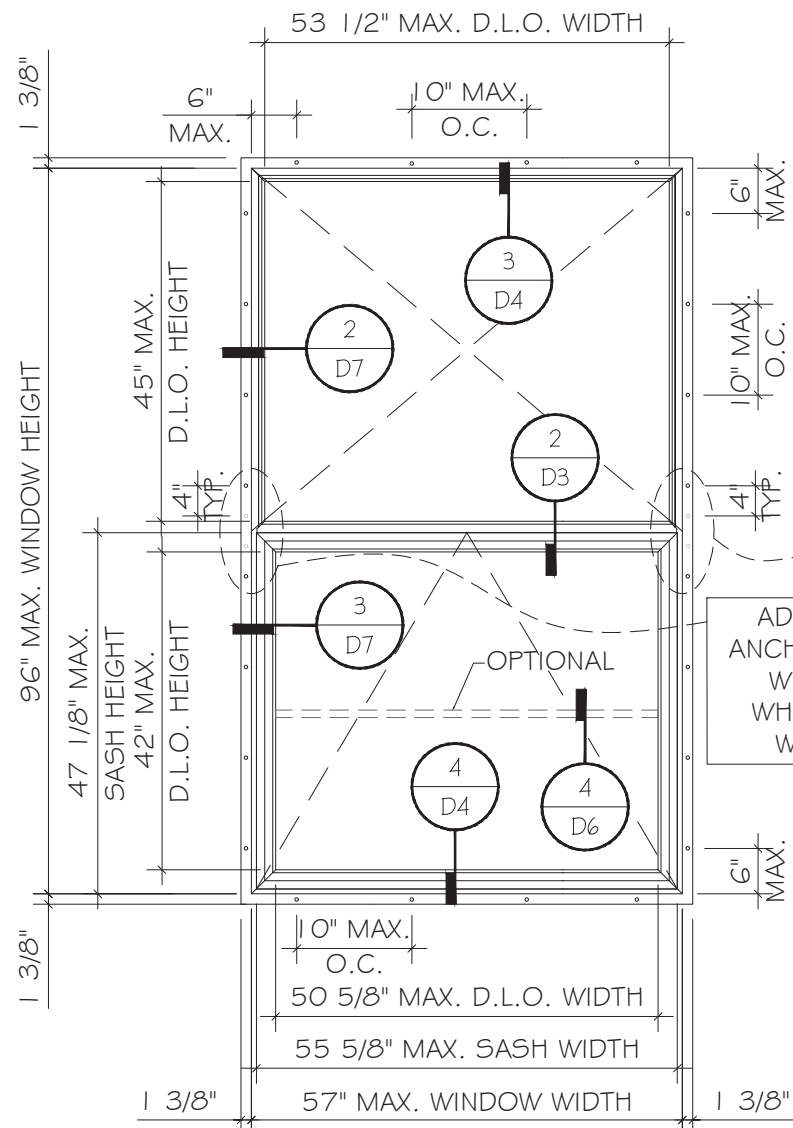
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R6	03.27.2026	JAMES	REV/ISON

Drawn Date 08.24.2026 Scale AS SHOWN

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E1

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NAIL FIN WINDOW

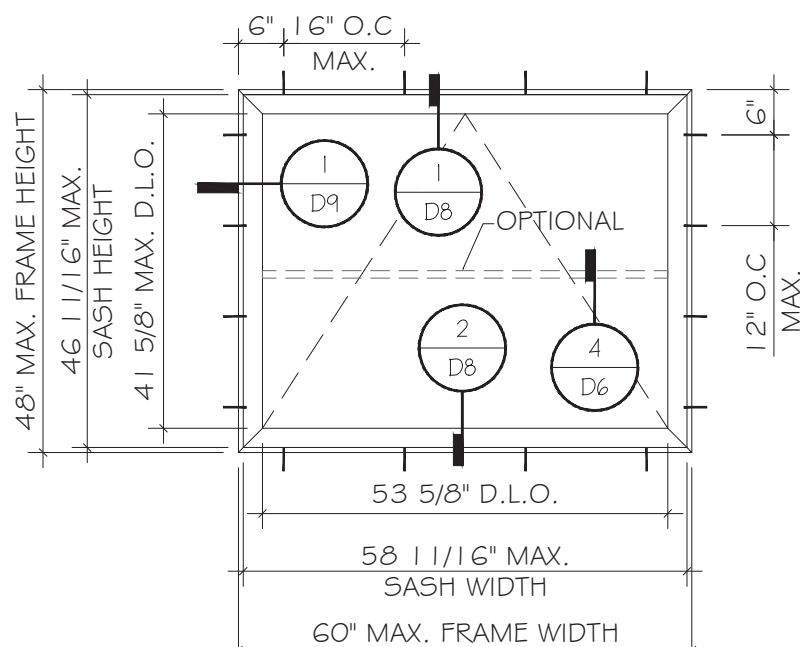
TYPICAL WINDOW ELEVATIONS

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.

APPLY TO ALL GLASS ON SHEET G1.
DESIGN LOAD SEE CHART ON SHEET G1.



GLASS TYPE: GL-6 / GL-7 / GL-8.

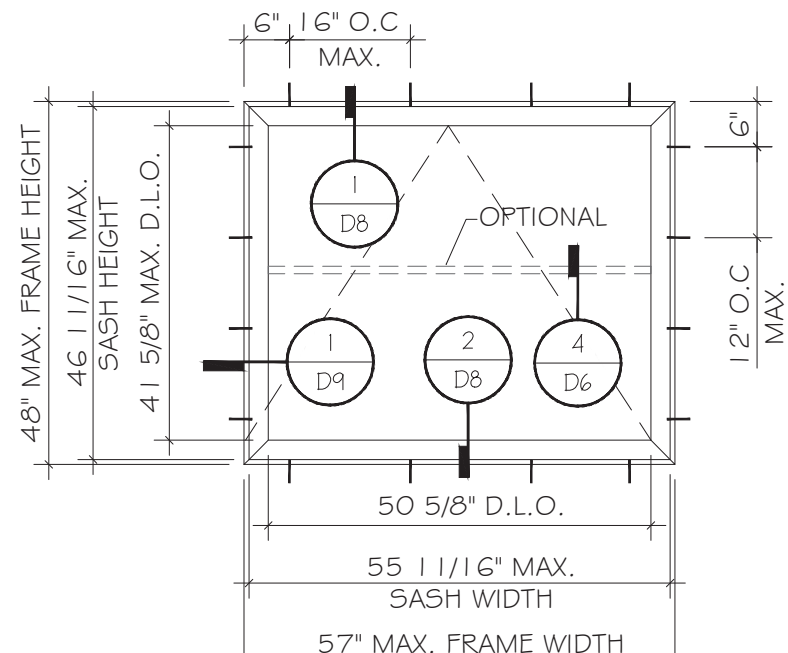
DIRECT ANCHOR

TYPICAL WINDOW ELEVATIONS

MAX. D.L.O. AREA FOR VENT UNIT = 15.5 SQ.FT.

NOTE:ANCHOR TYPE SEE SHEET A1.

DESIGN LOAD: +80/-90 PSF
FOR SIZE SHOWN ABOVE OR SMALLER AS
PERMITTED BY FBC.



GLASS TYPE: GL-1 / GL-2 / GL-3/ GL-4/ GL-5.

DIRECT ANCHOR

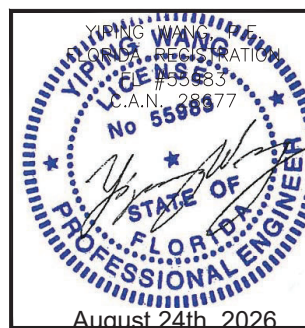
TYPICAL WINDOW ELEVATIONS

MAX. D.L.O. AREA FOR VENT UNIT = 14.63 SQ.FT.

NOTE:ANCHOR TYPE SEE SHEET A1.

DESIGN LOAD: +80/-90 PSF
FOR SIZE SHOWN ABOVE OR SMALLER AS
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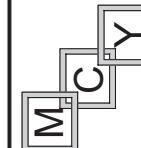
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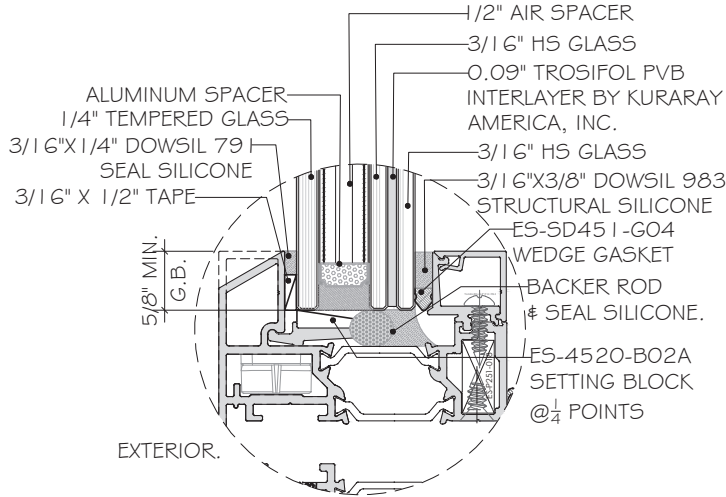
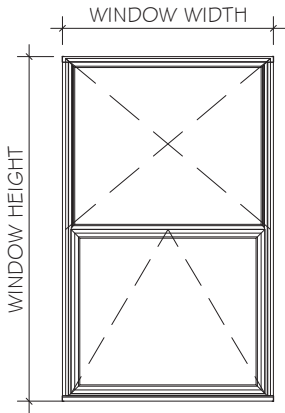
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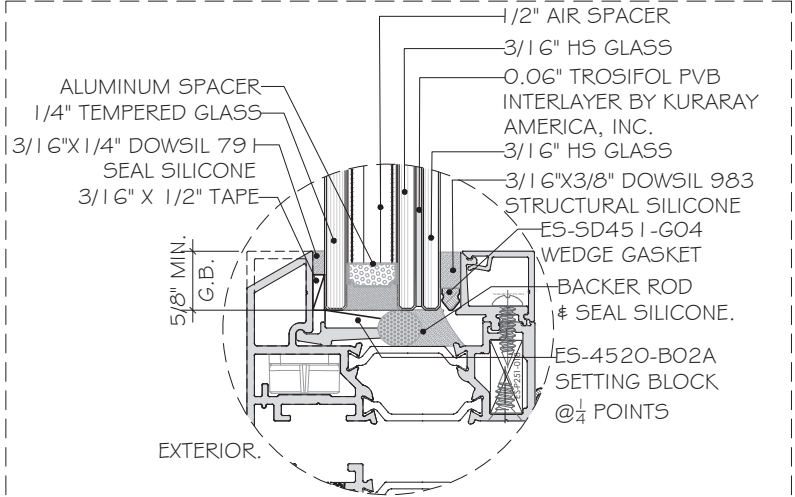
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AWNING WINDOW ALLOWABLE PRESSURE			
WINDOW HEIGHT	WINDOW WIDTH	ALLOWABLE LOAD	
INCH	INCH	PSF EXT (+)	PSF INT (-)
72.0	24.0	80.0	90.0
	30.0		
	36.0		
	42.0		
	48.0		
	54.0		
78.0	60.0	76.0	86.0
	24.0	80.0	90.0
	30.0		
	36.0		
	42.0		
	48.0		
84.0	54.0	76.0	86.0
	60.0		
	24.0		
	30.0		
	36.0		
	42.0		
90.0	48.0	80.0	90.0
	54.0		
	60.0		
	24.0		
	30.0		
	36.0		
96.0	42.0	80.0	90.0
	48.0		
	54.0		
	57.0		

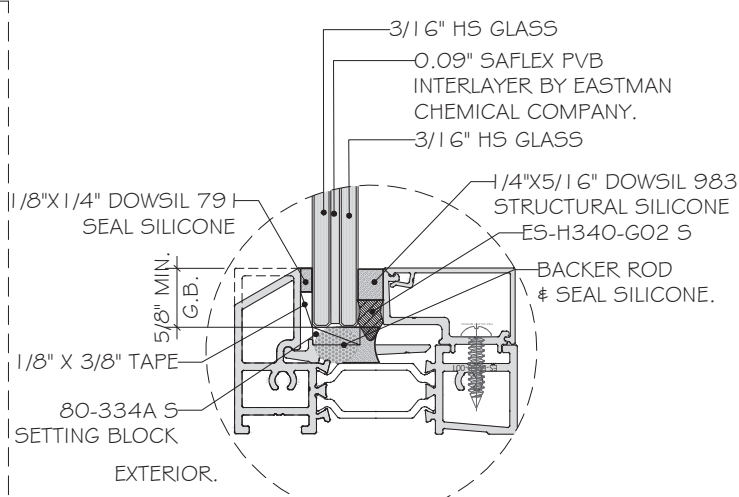
NOTE:FOR ALL GLASS TYPES.



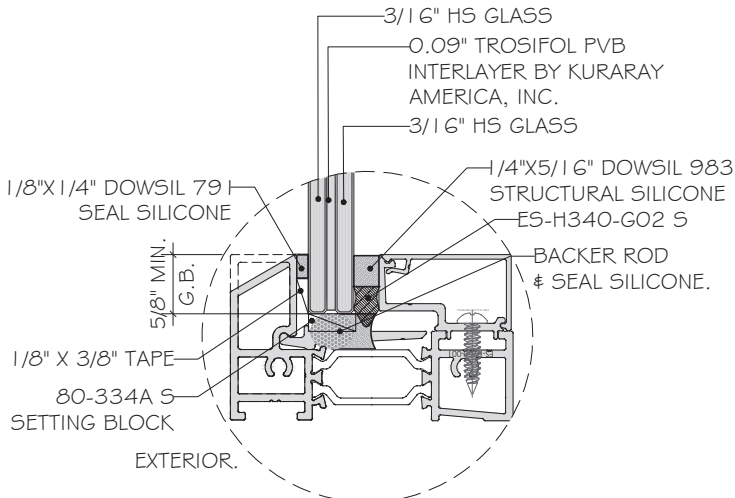
GLASS TYPE "GL-1" FOR LMI
1 3/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE



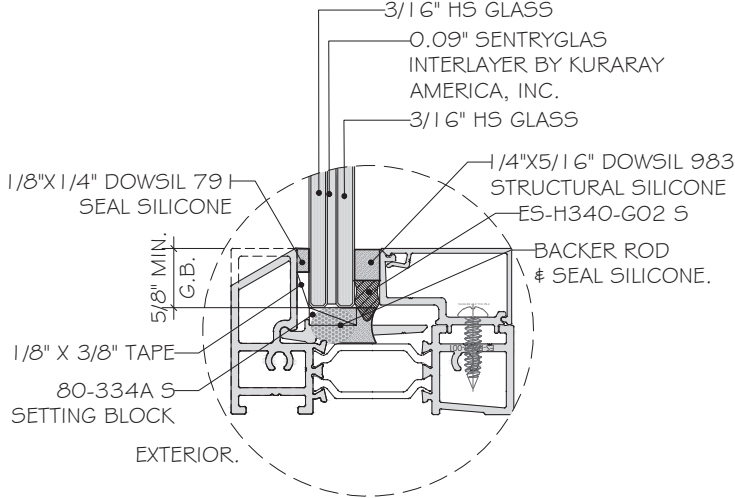
GLASS TYPE "GL-2" FOR SMI
1 3/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE



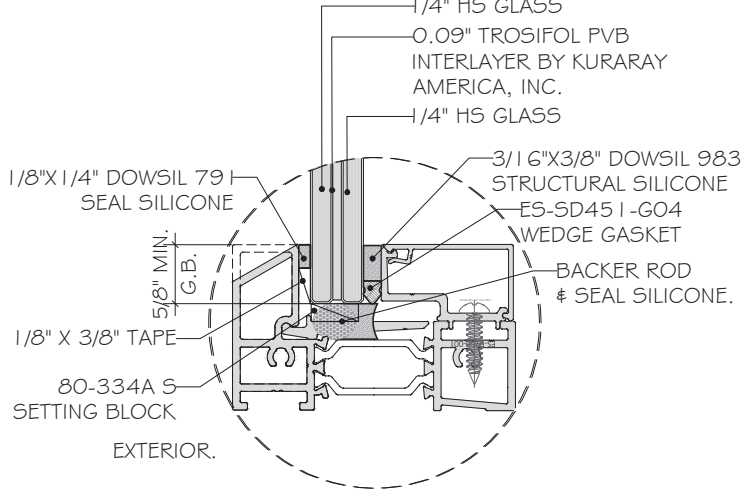
GLASS TYPE "GL-3" FOR LMI
7/16" LAMINATED GLASS



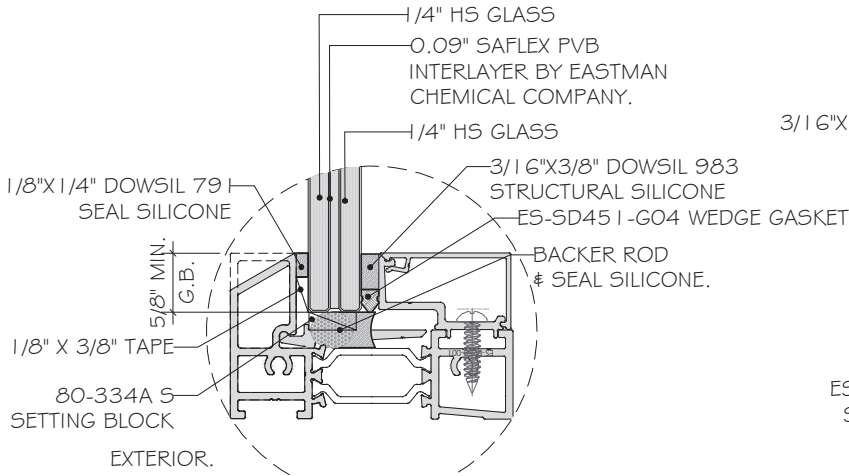
GLASS TYPE "GL-4" FOR LMI
7/16" LAMINATED GLASS



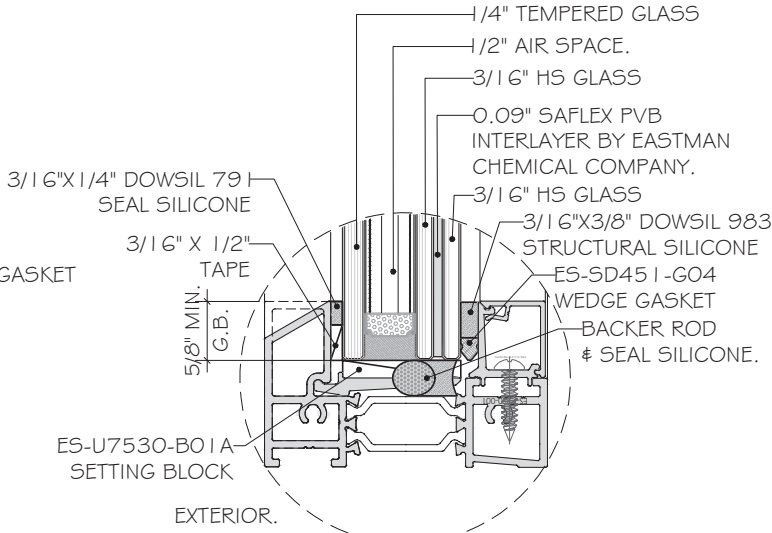
GLASS TYPE "GL-5" FOR LMI
7/16" LAMINATED GLASS



GLASS TYPE "GL-6" FOR LMI
9/16" LAMINATED GLASS



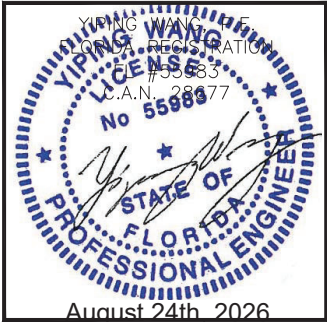
GLASS TYPE "GL-7" FOR LMI
9/16" LAMINATED GLASS



GLASS TYPE "GL-8" FOR LMI
1 3/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE

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

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08.24.2026

Scale

AS SHOWN

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G1

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ANCHOR OPTIONS (SEE ELEVATION FOR SPACING):

ANCHOR TYPE 'D' - 1/4" DIA. ULTRACON+ BY 'DEWALT'(Fu= 1 64KSI, Fy= 1 48KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)
WITH 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).

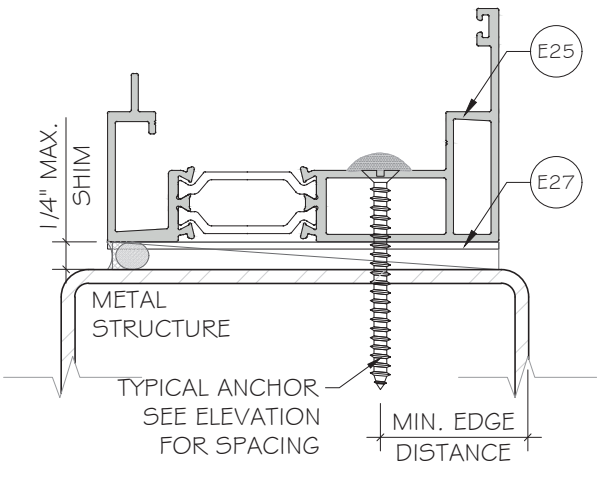
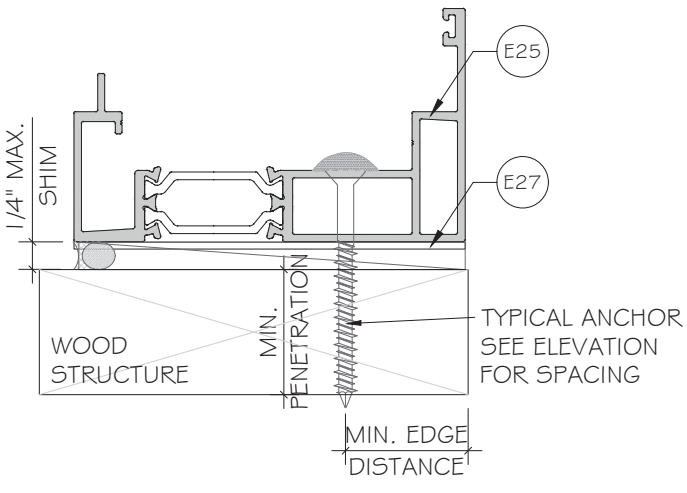
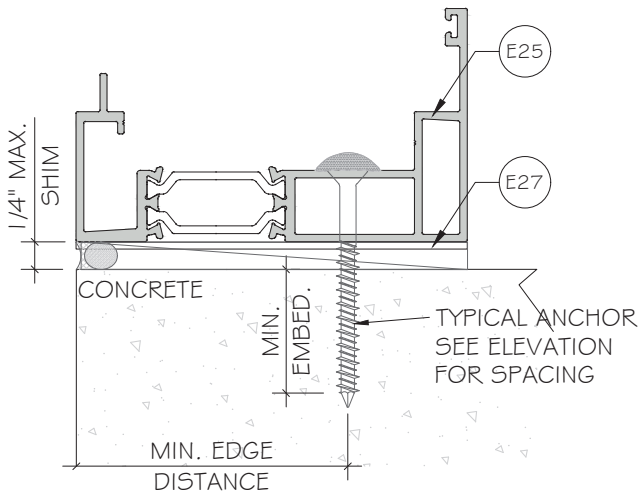
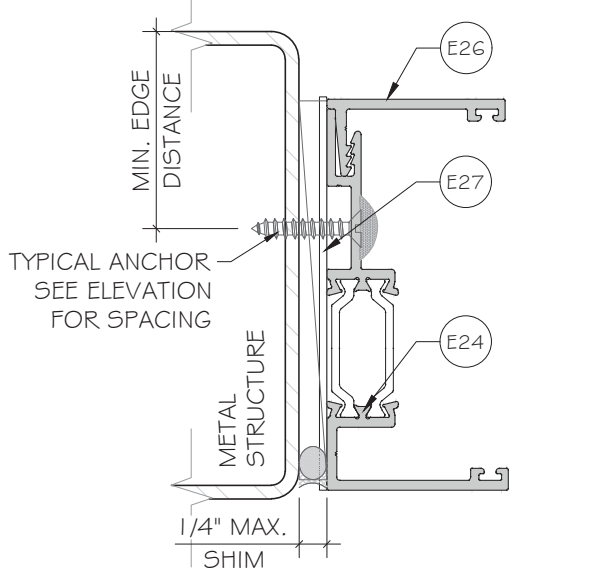
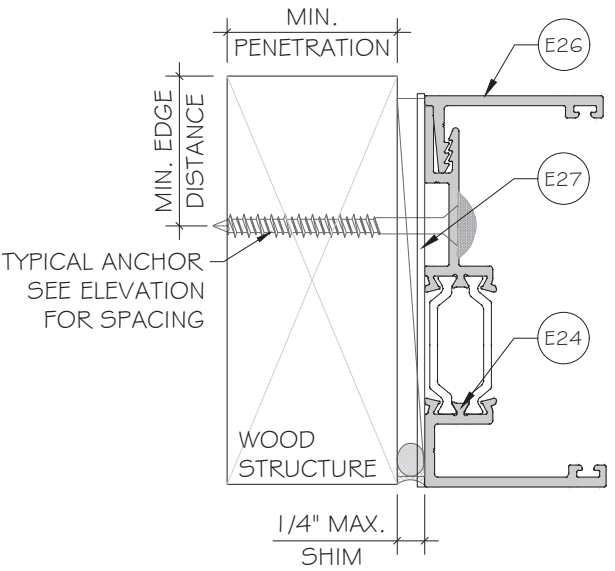
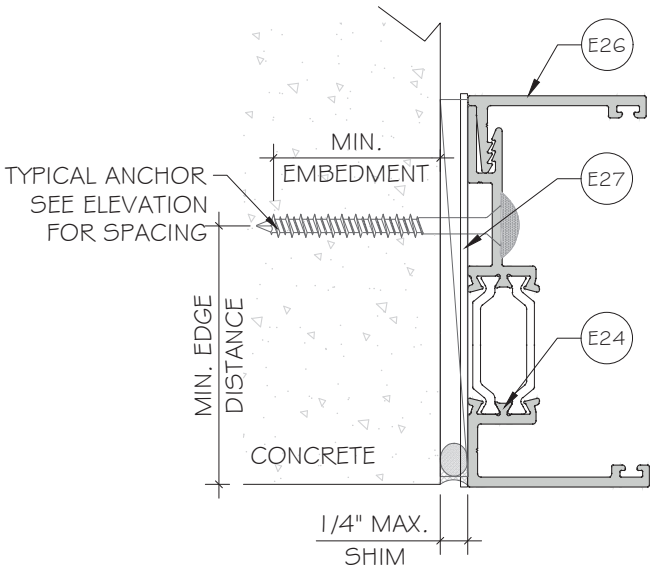
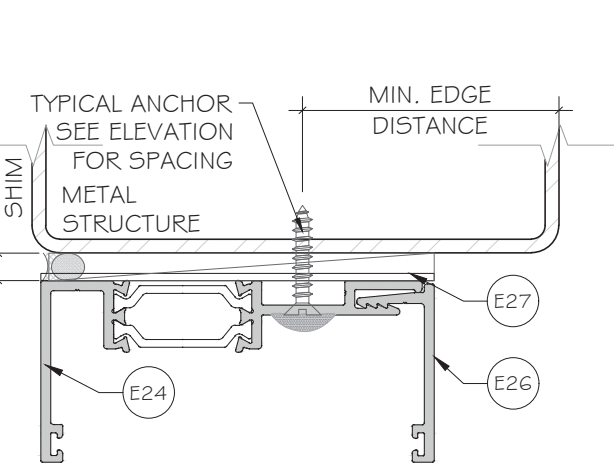
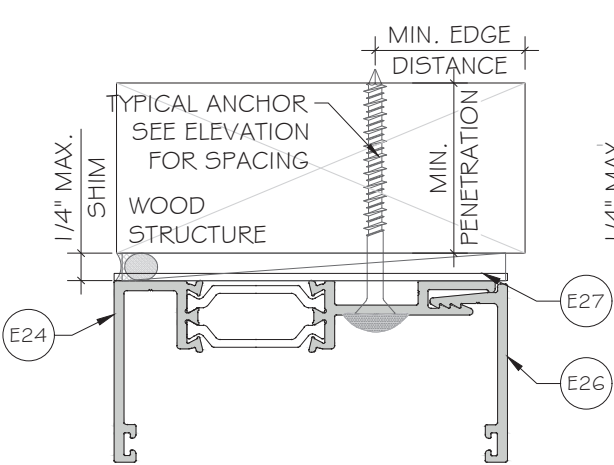
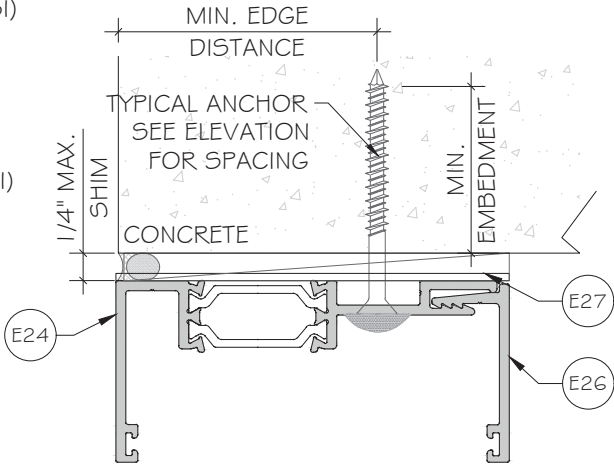
ANCHOR TYPE 'E' - 1/4" DIA. ULTRACON+ BY 'DEWALT'(Fu= 1 64KSI, Fy= 1 48KSI)
DIRECTLY INTO CONCRETE f'c=3KSI MIN.
W/1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL).

ANCHOR TYPE 'F' - 1/4" DIA. SEFL-DRILLING SCREWS, GRADE 5
(Fu= 1 20KSI, Fy=92KSI)
INTO METAL STRUCTURES. (HEAD/JAMB/SILL).
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

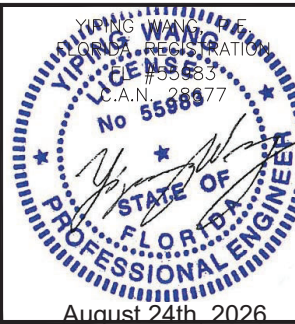
ALUMINUM: 1/4" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (Fy=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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 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. AD21-53			
A3			
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ANCHOR OPTIONS:

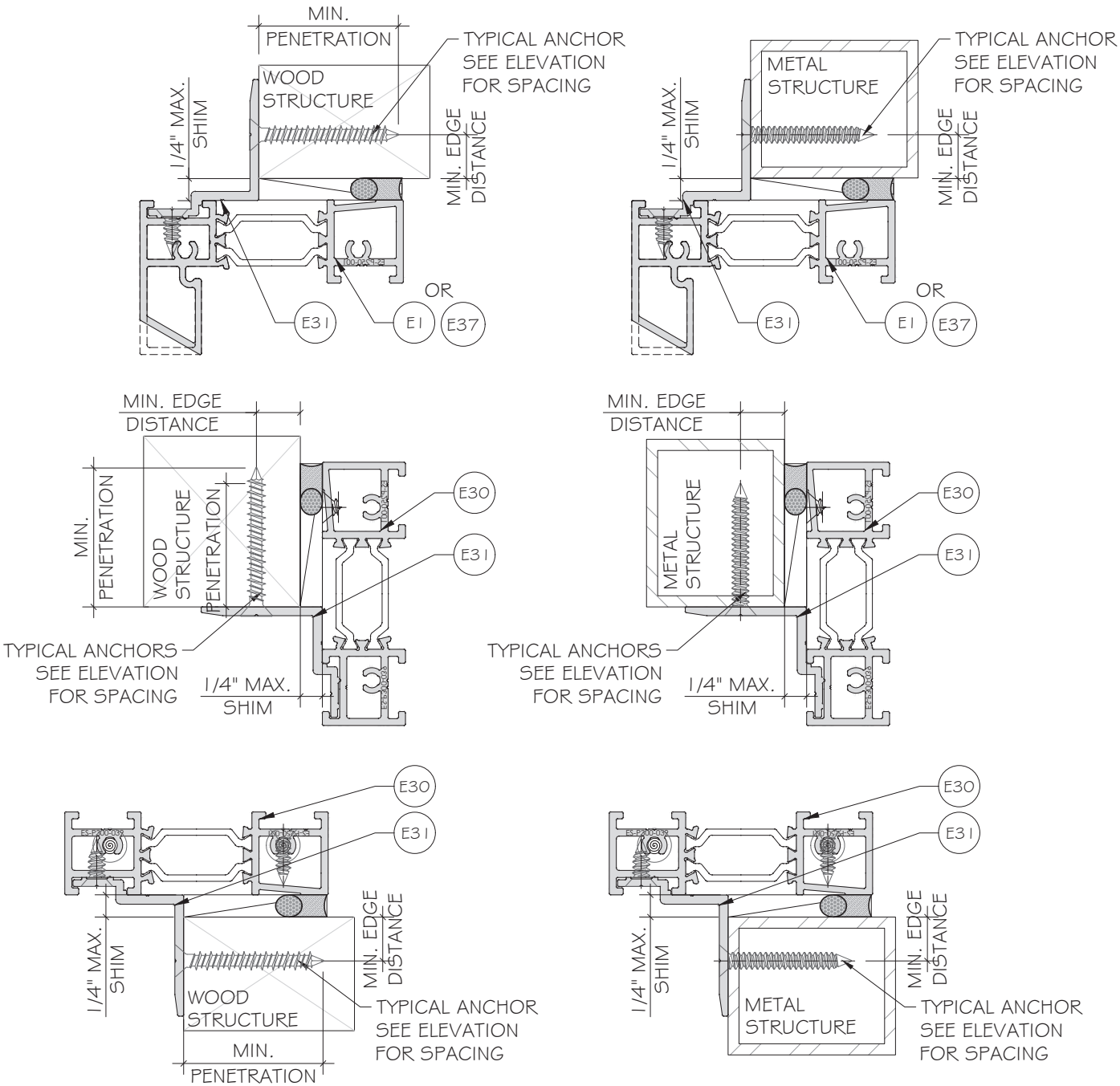
ANCHOR TYPE 'A' - 3/16" DIA. ULTRA-CON BY 'DEWALT' (Fu=164 KSI, Fy=117 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)
WITH 1 3/4" MIN. PENETRATION. (HEAD/JAMB/SILL).

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

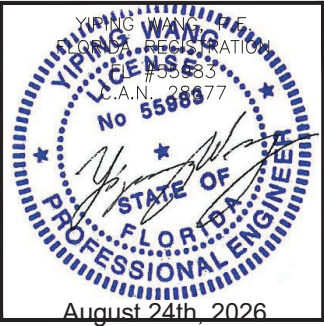
ALUMINUM: 1/4" THK. MIN. (6063-T5, MIN.)
STEEL: 1/4" THK. MIN. (Fy=36ksi MIN.)

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

NOTE:
METAL STRUCTURES OR WOOD STRUCTURES BY
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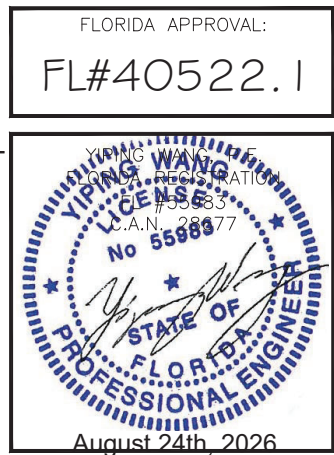
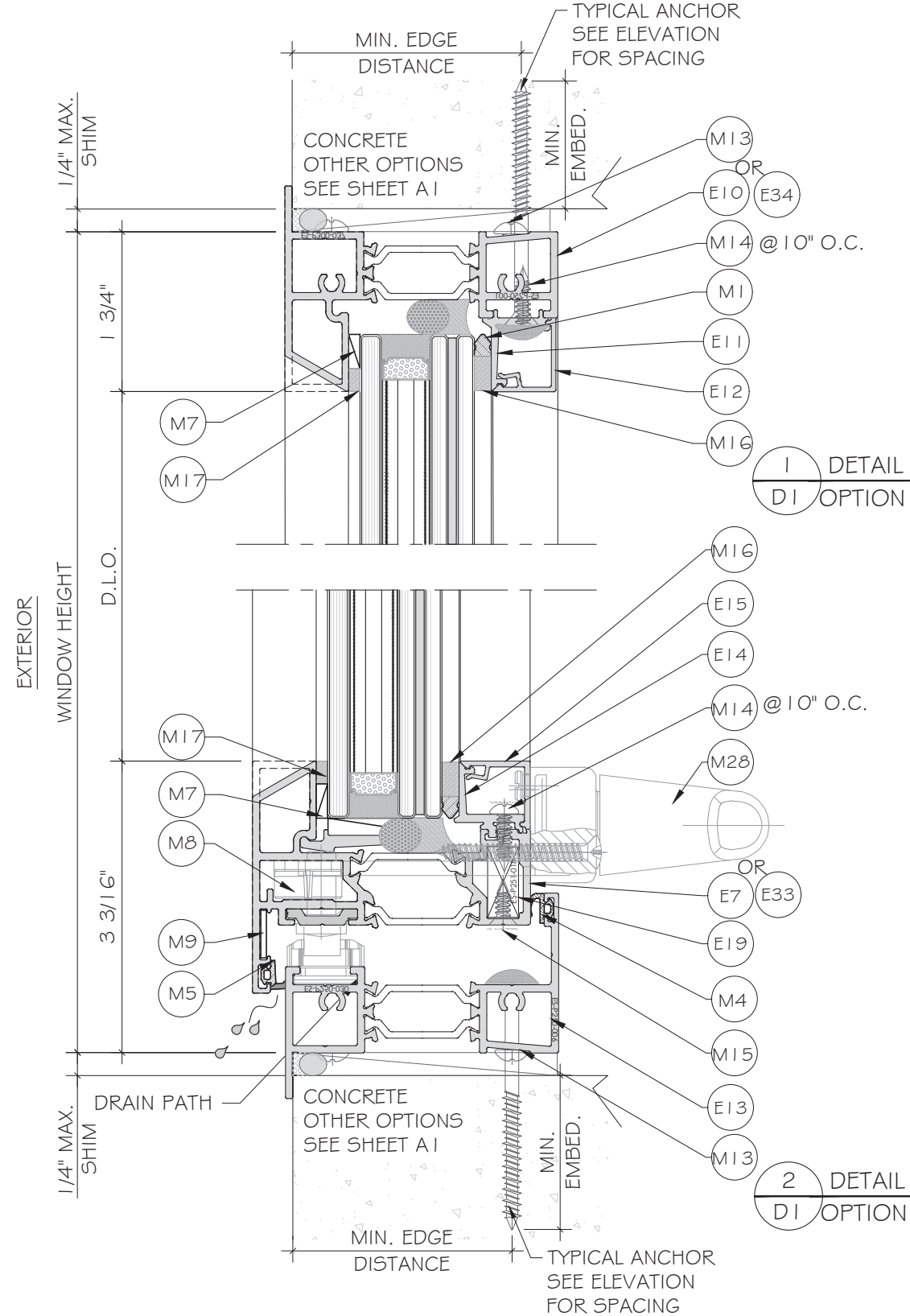
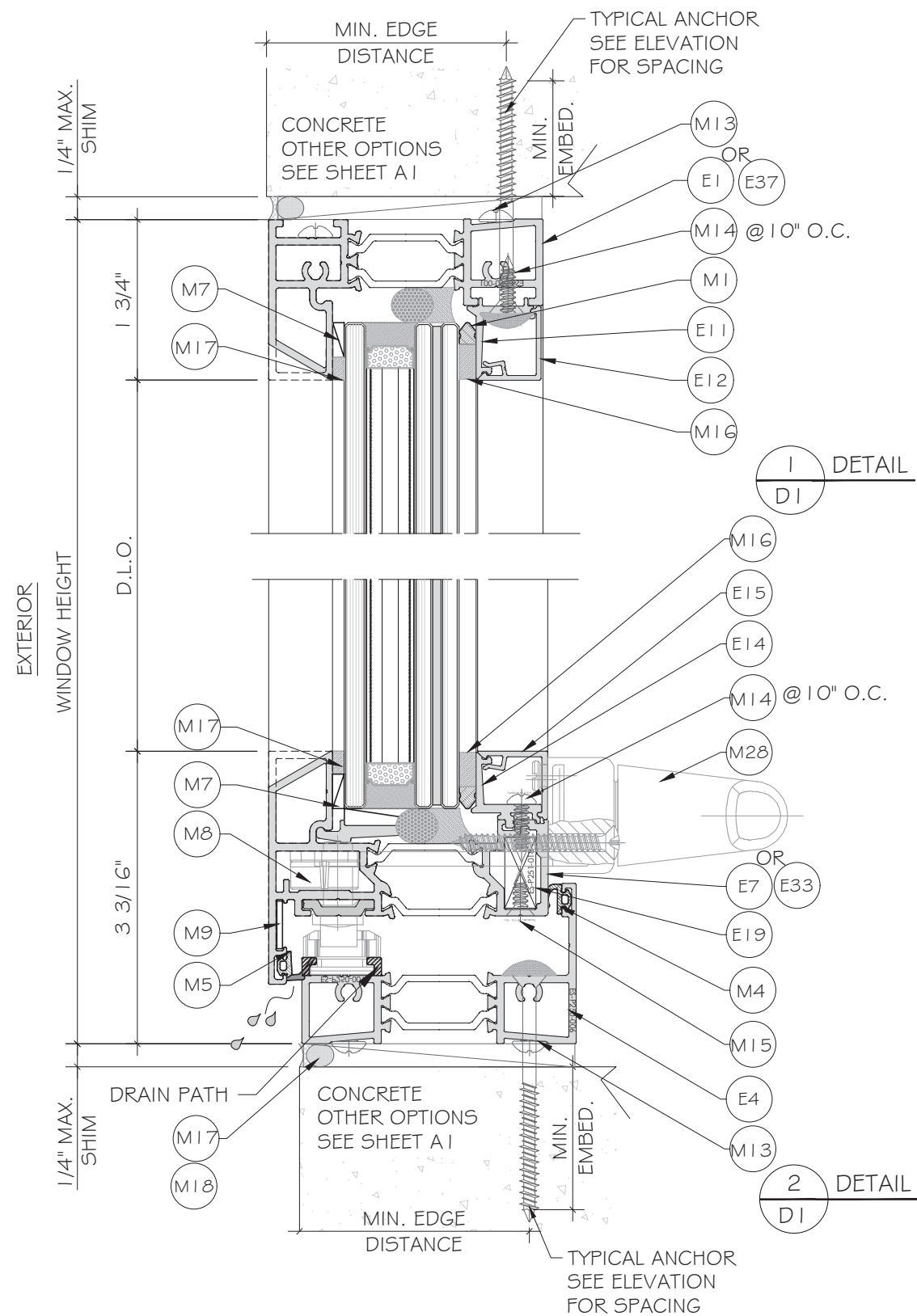
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INSULATED LAMINATED AS SHOWN,
SEE SHEET G1 FOR LAMINATED
GLASS OPTION.



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Rev. No.	Date	Drawn By	Description
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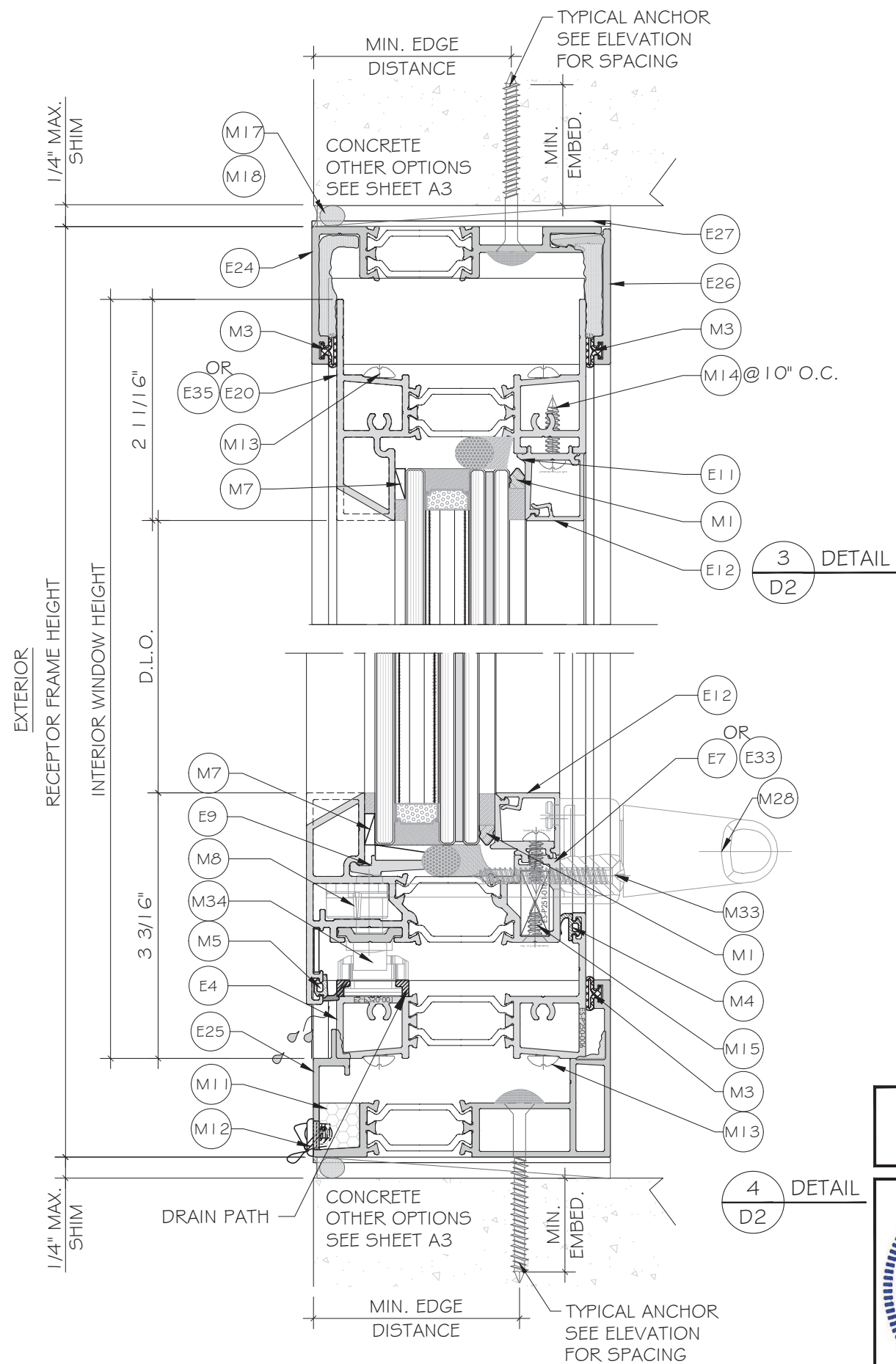
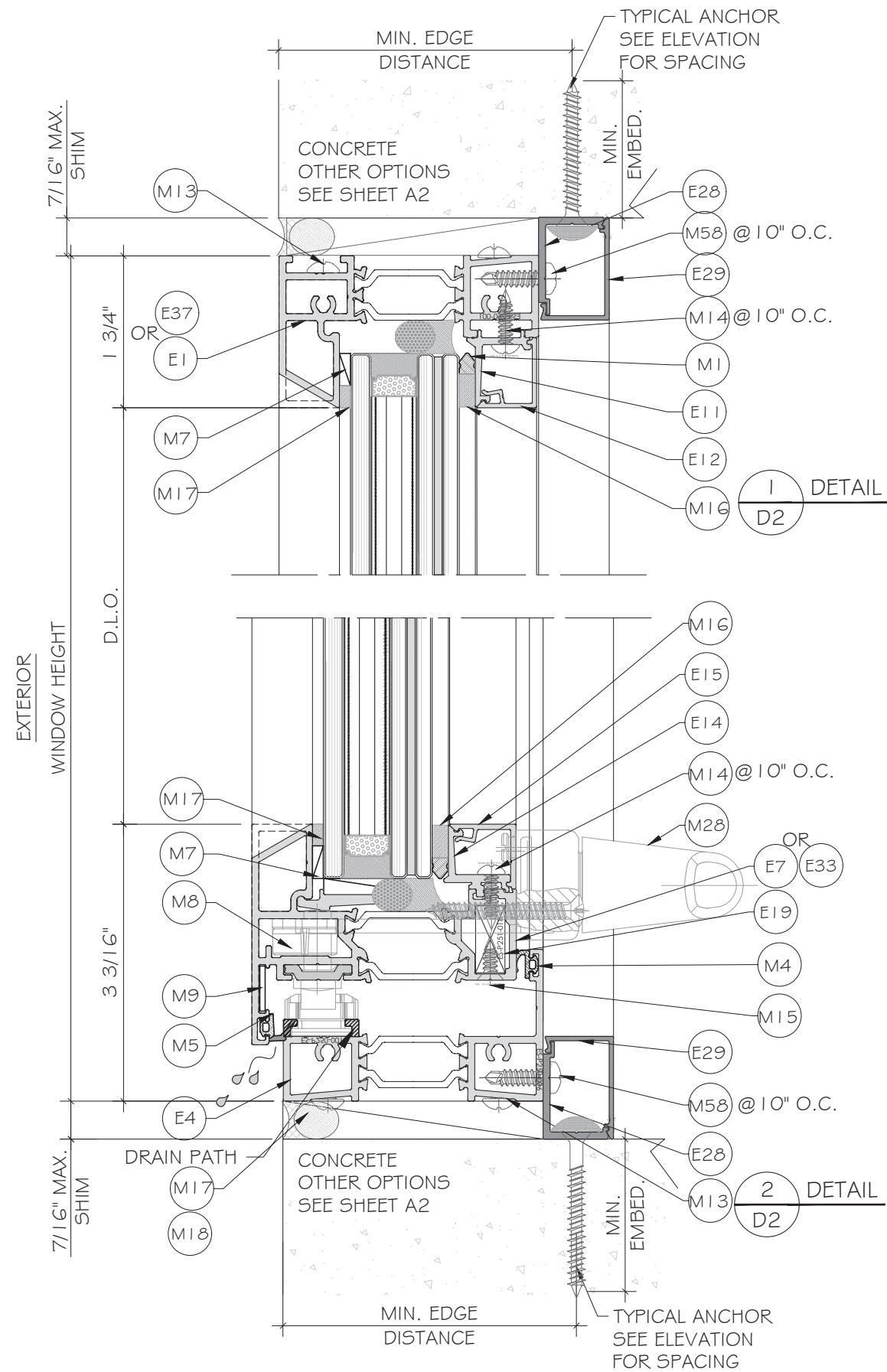
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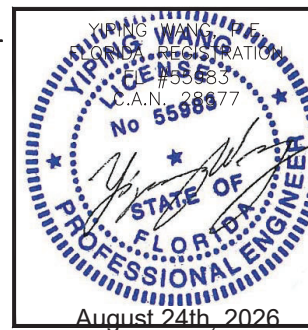
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Sheet No. 9 OF 21

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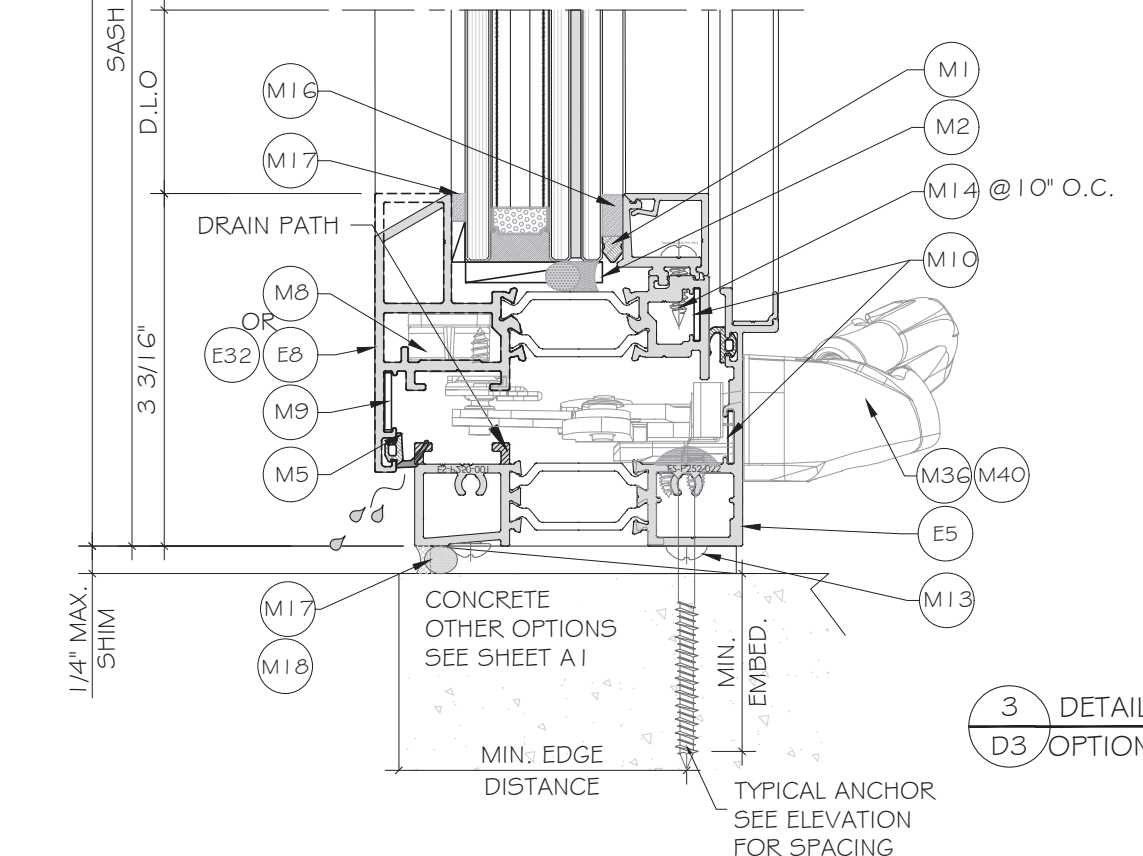
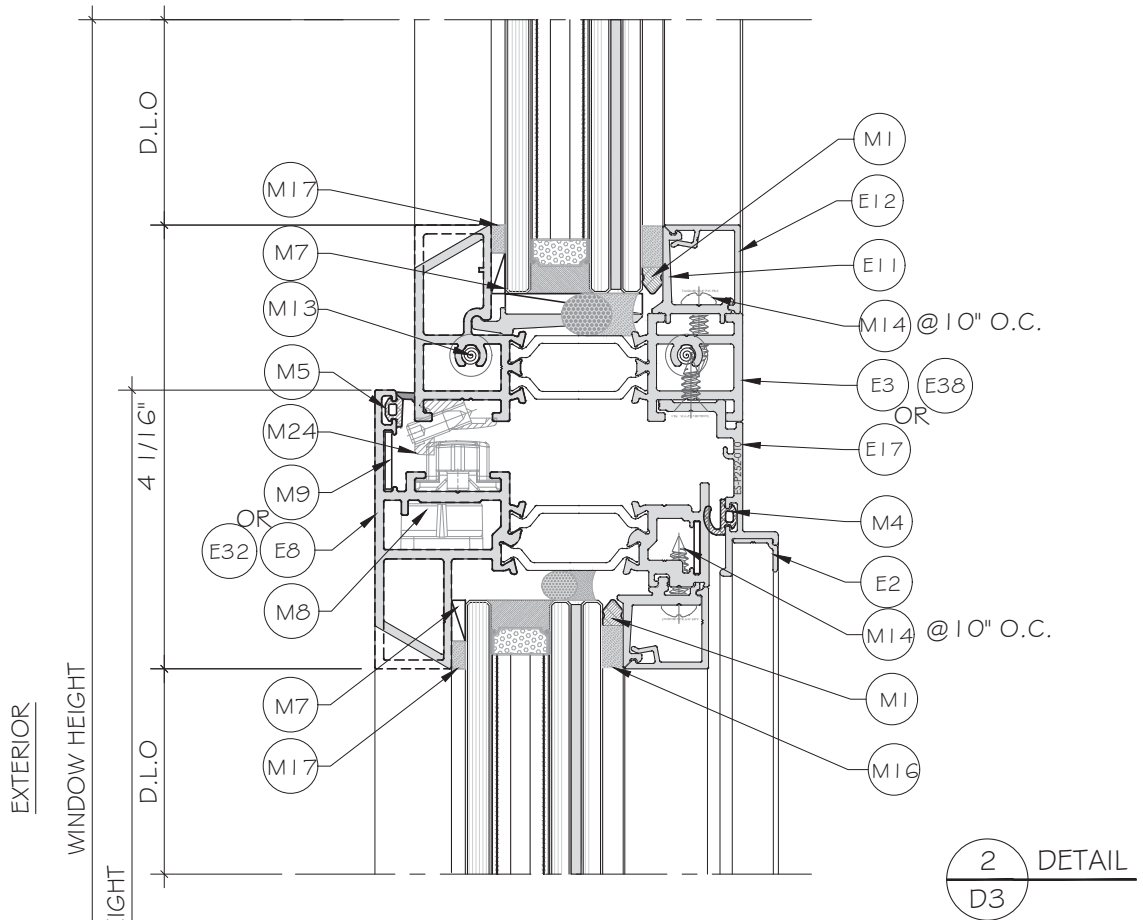
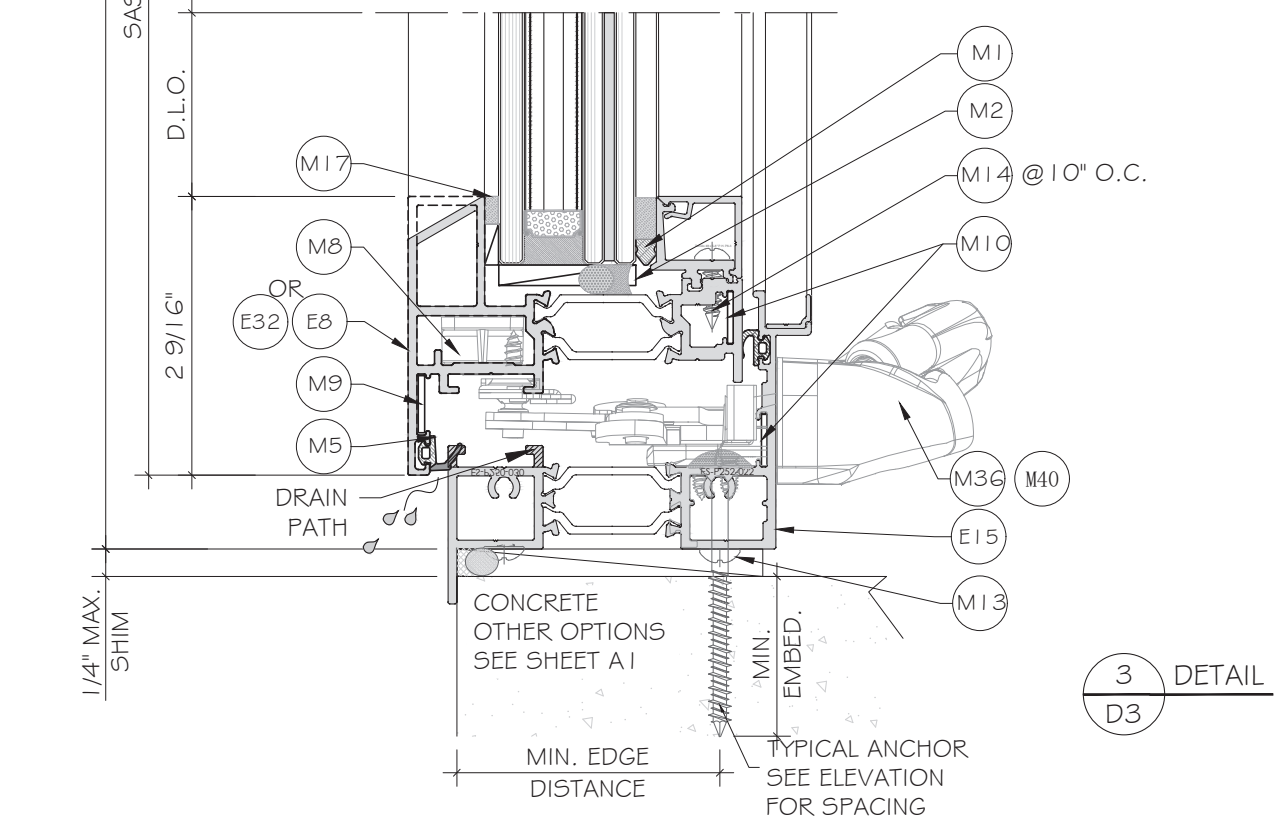
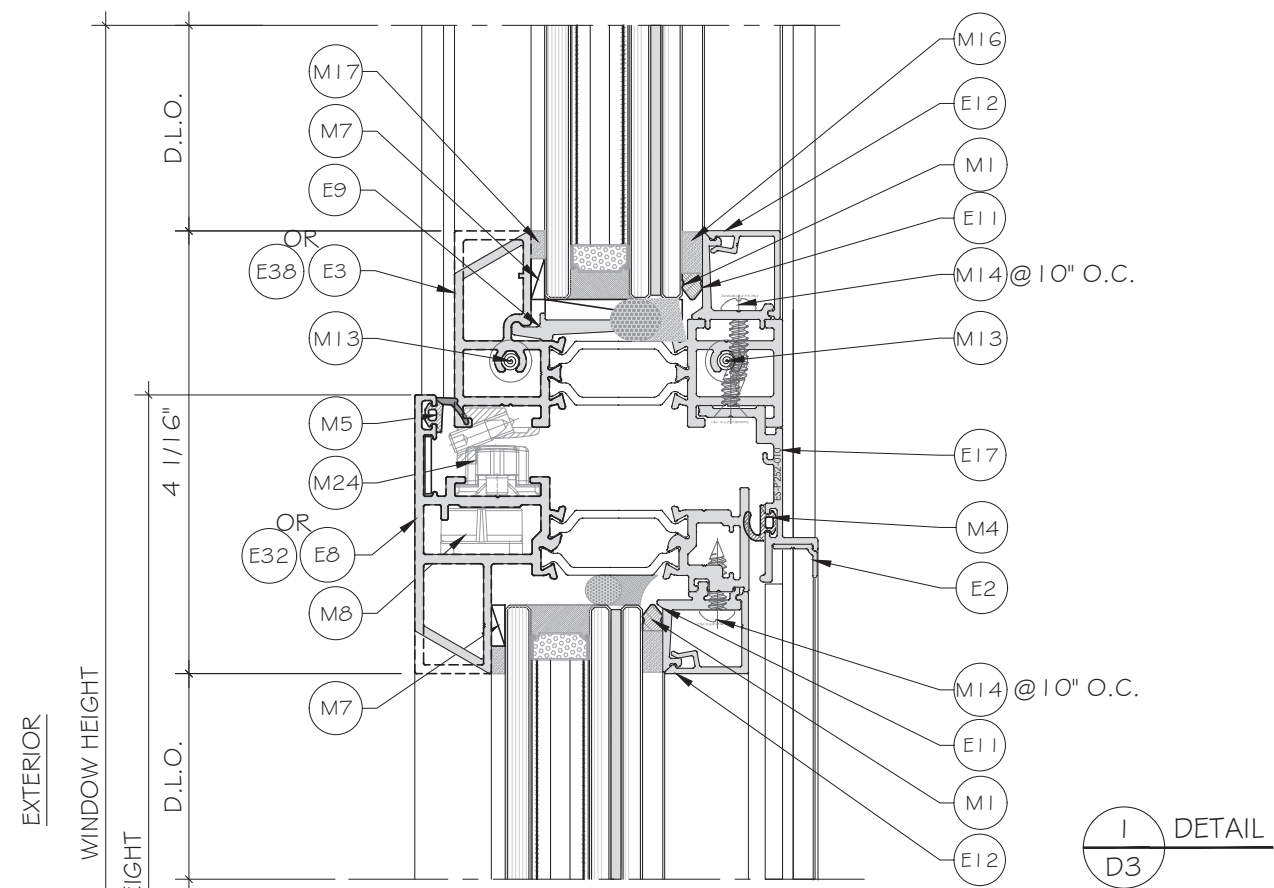
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027 P: 305.588.5224

mcv@mcvenengineering.com

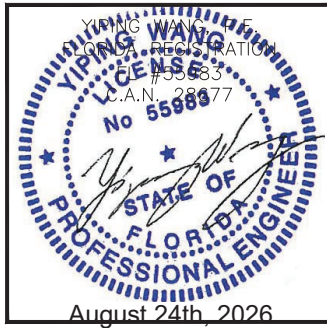
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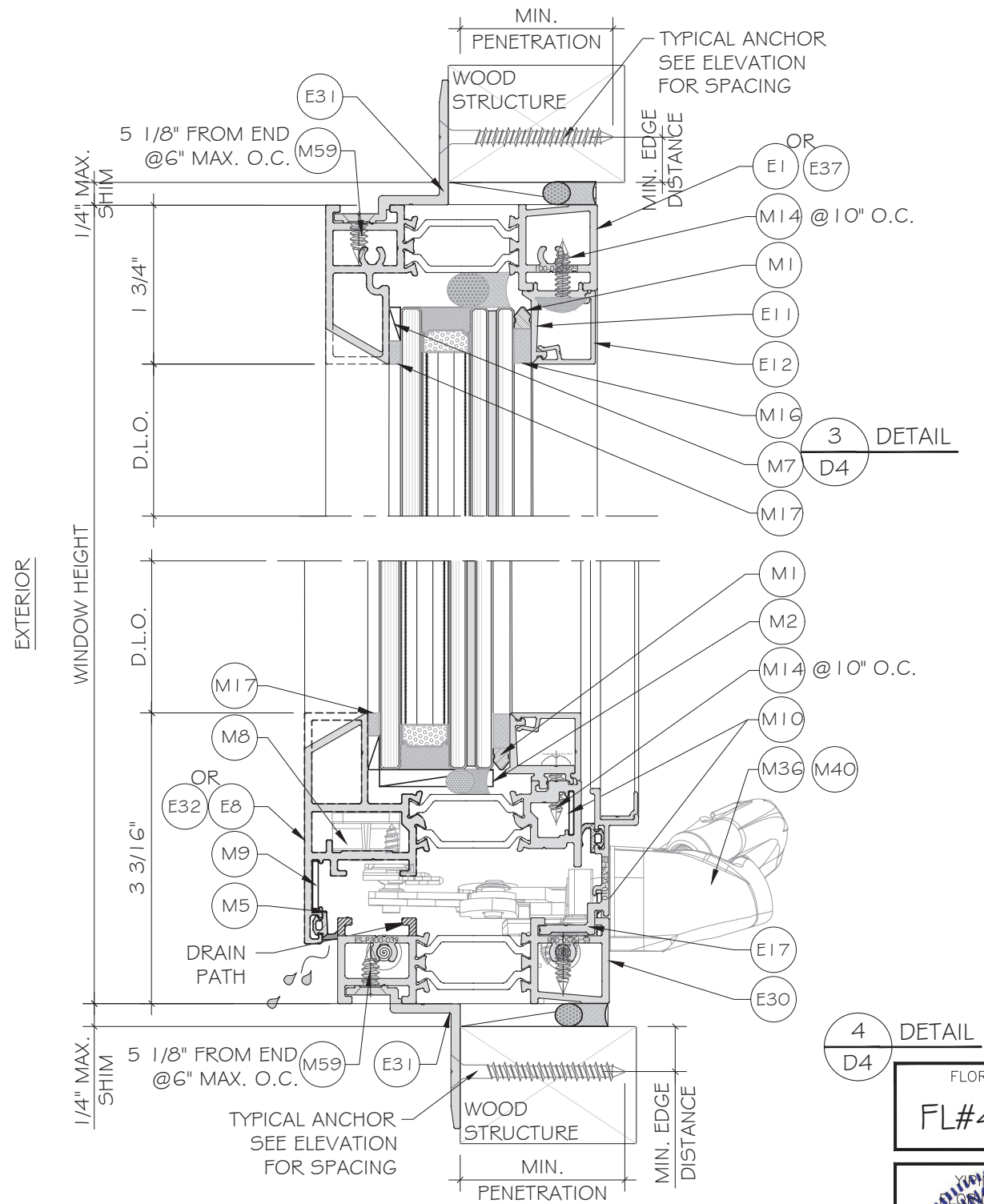
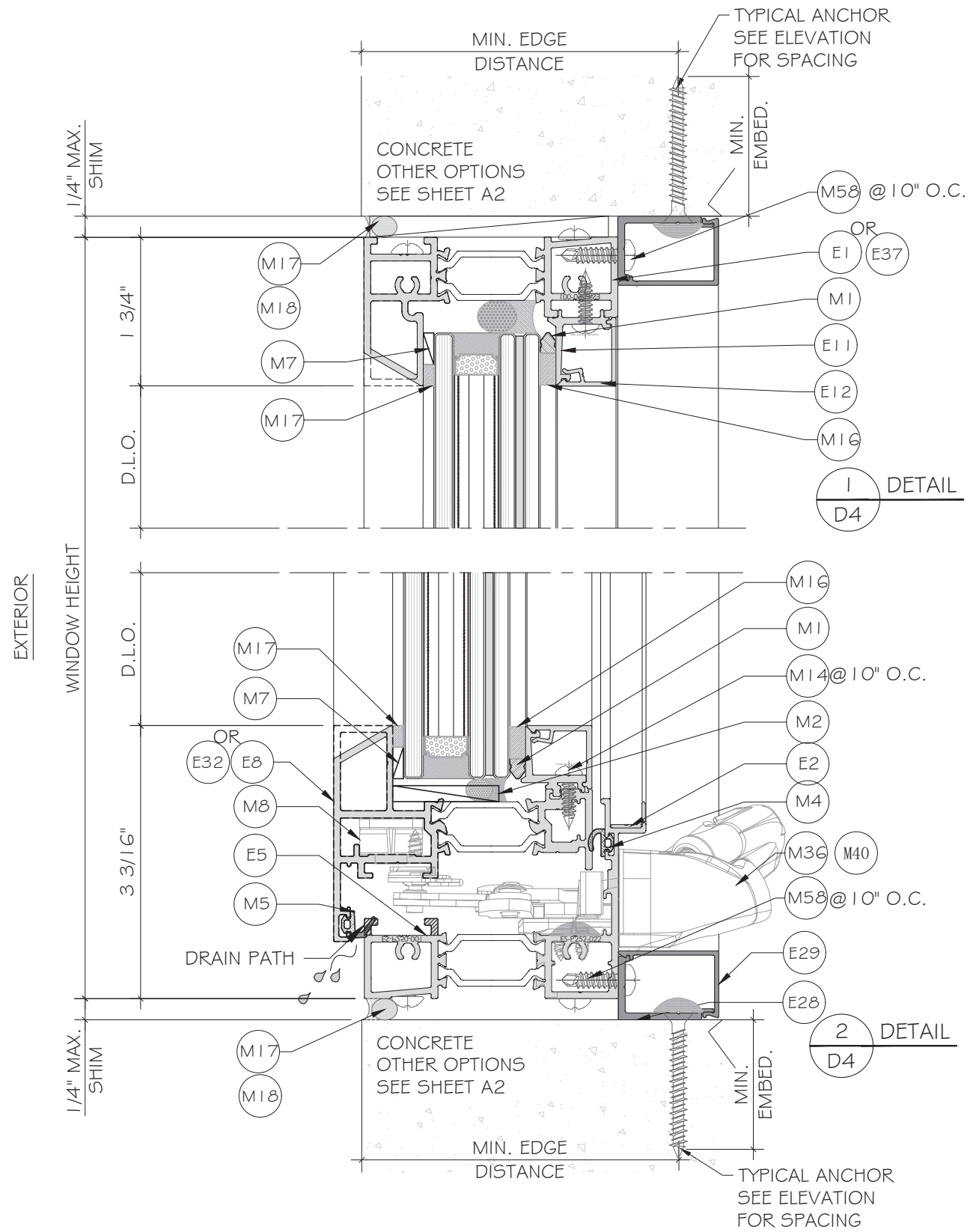


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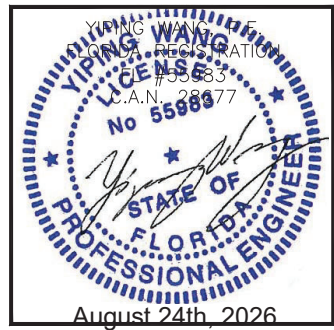
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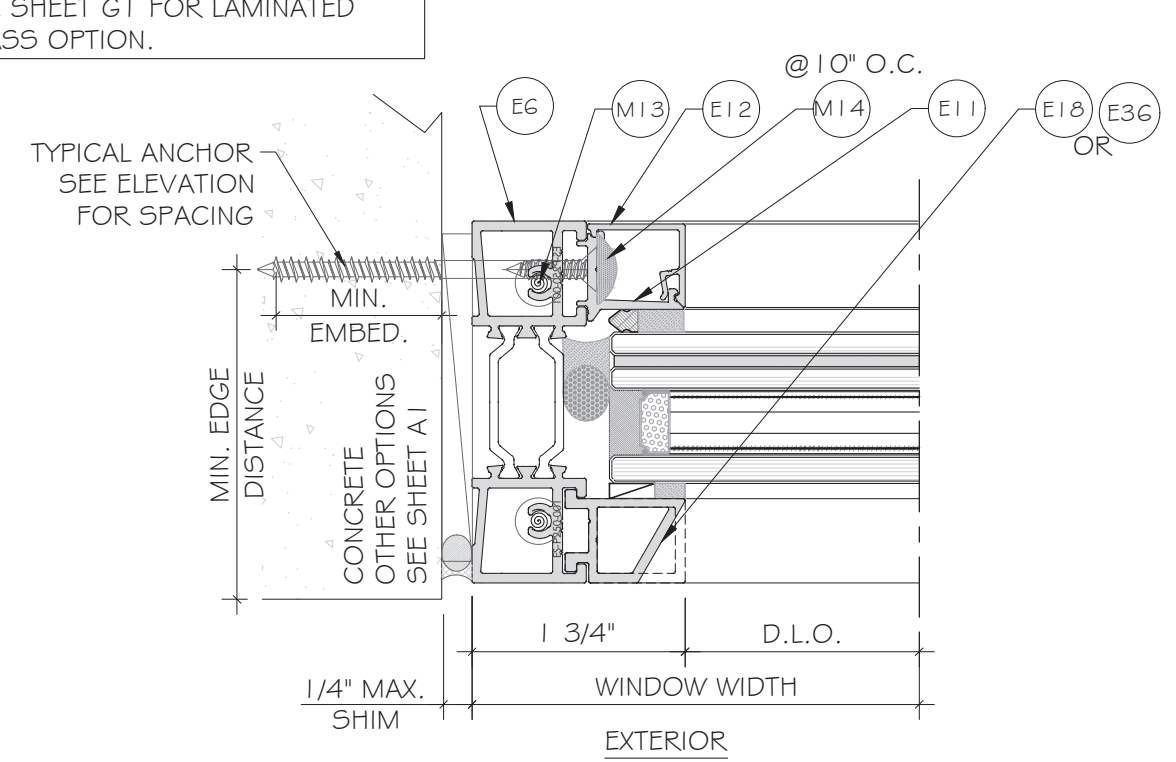

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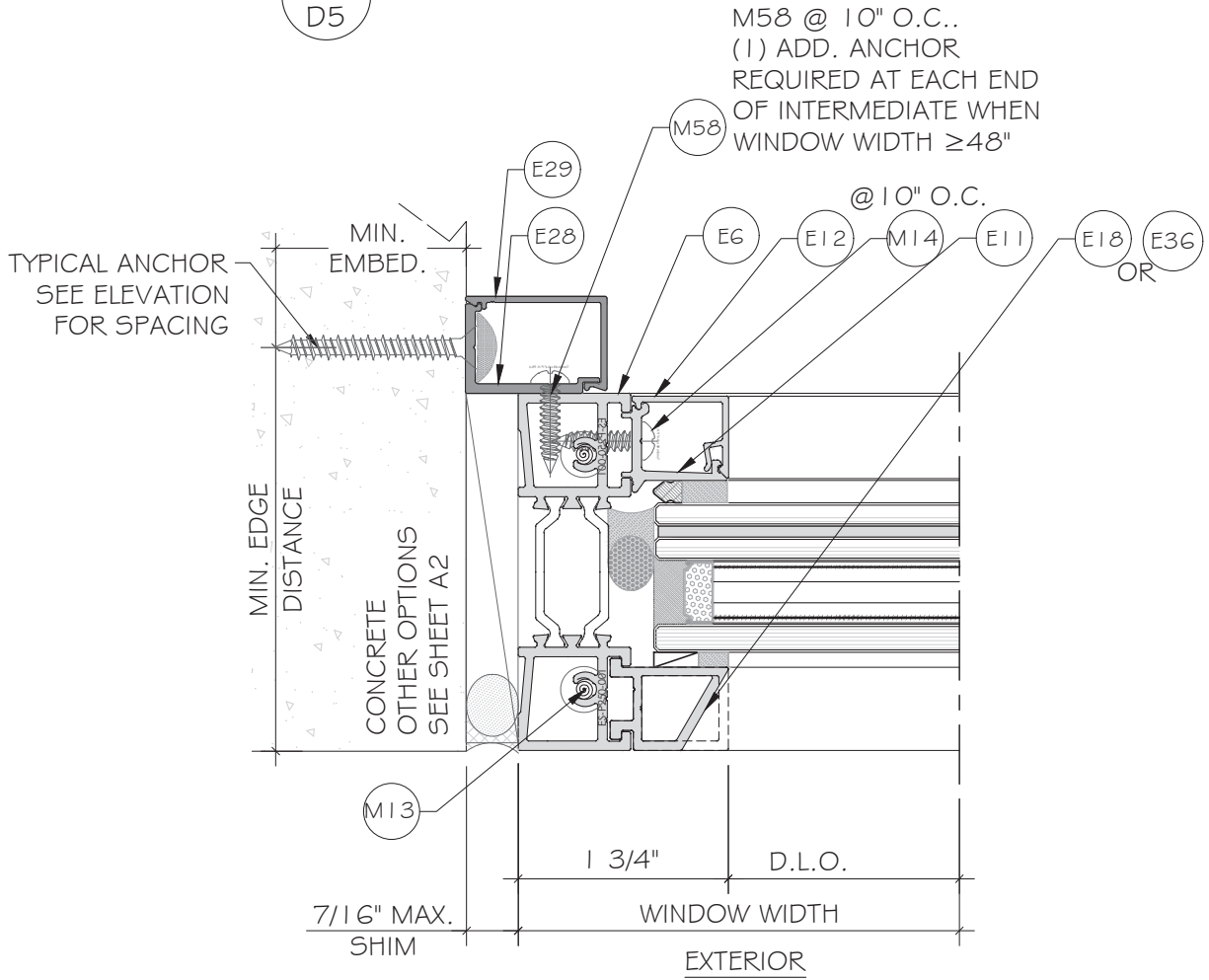
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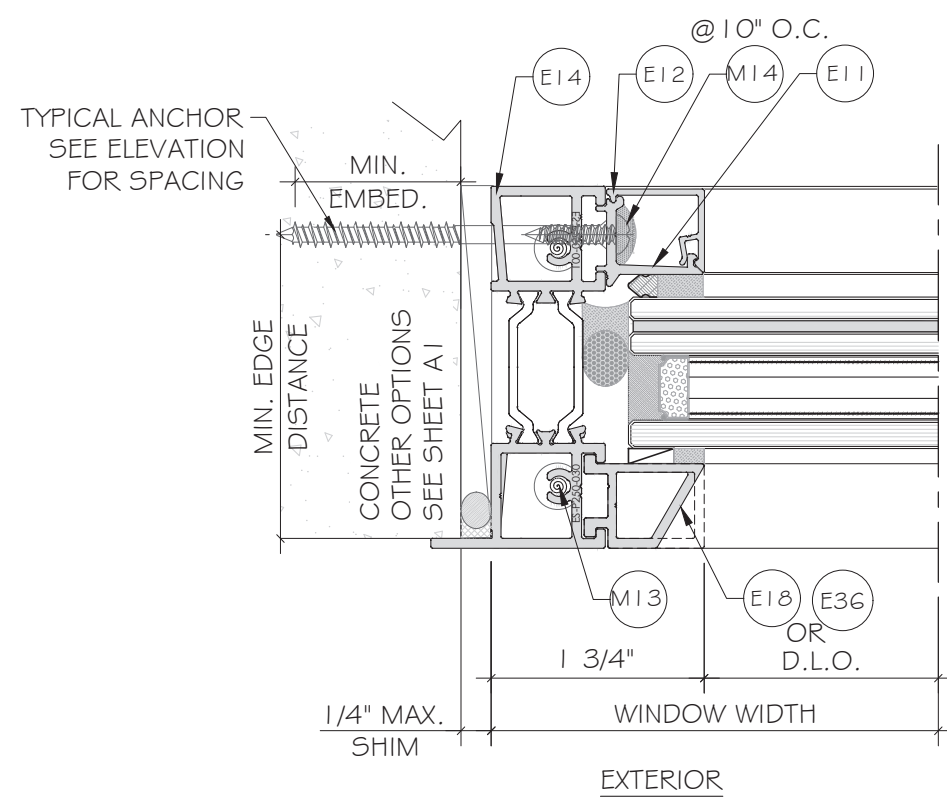
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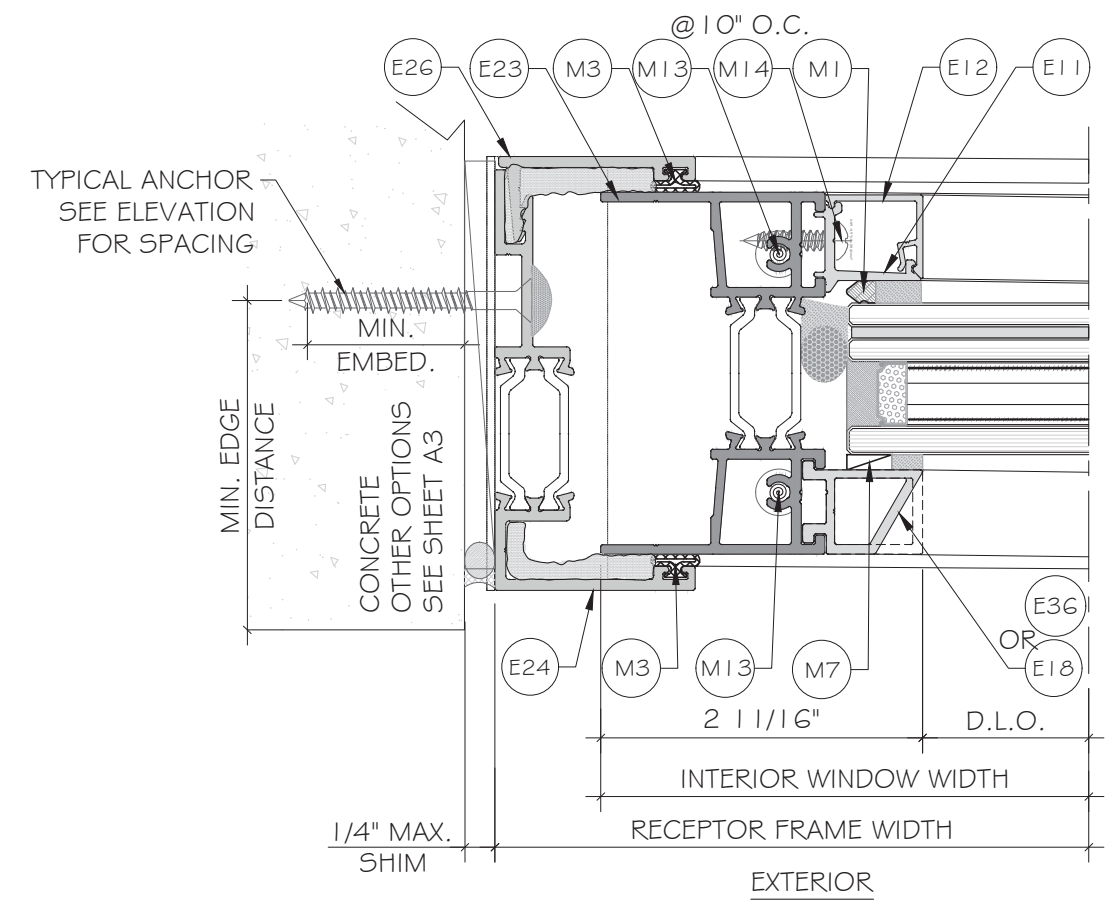
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1
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DETAIL

FLORIDA APPROVAL:

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YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55983
C.E.N. 28477

August 24th, 2026

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Drawn Date
08.24.2026

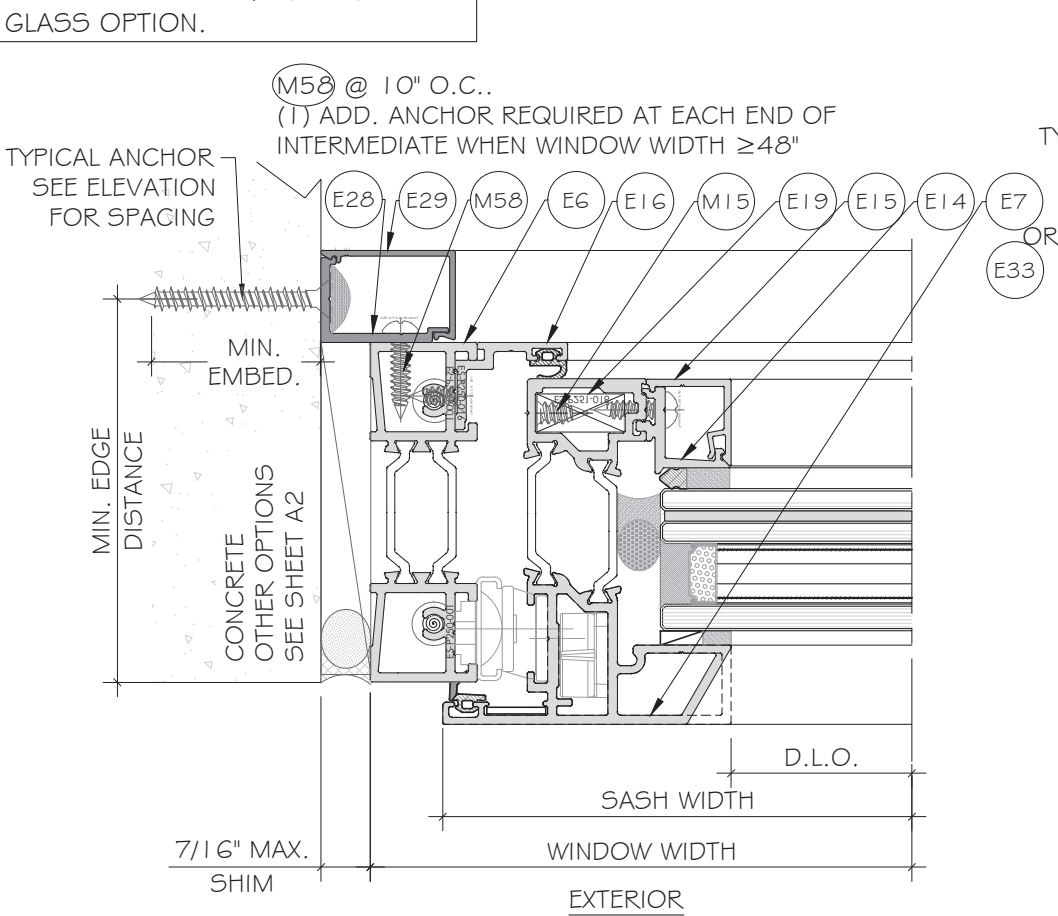
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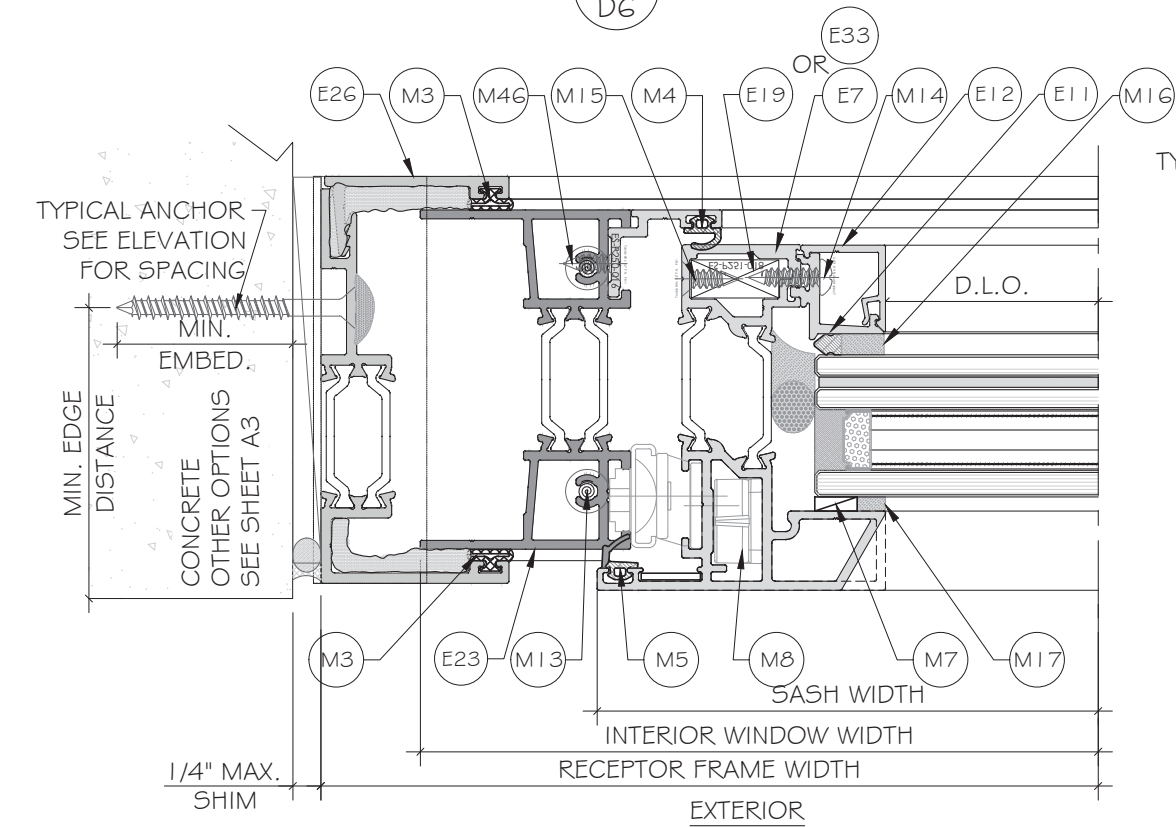
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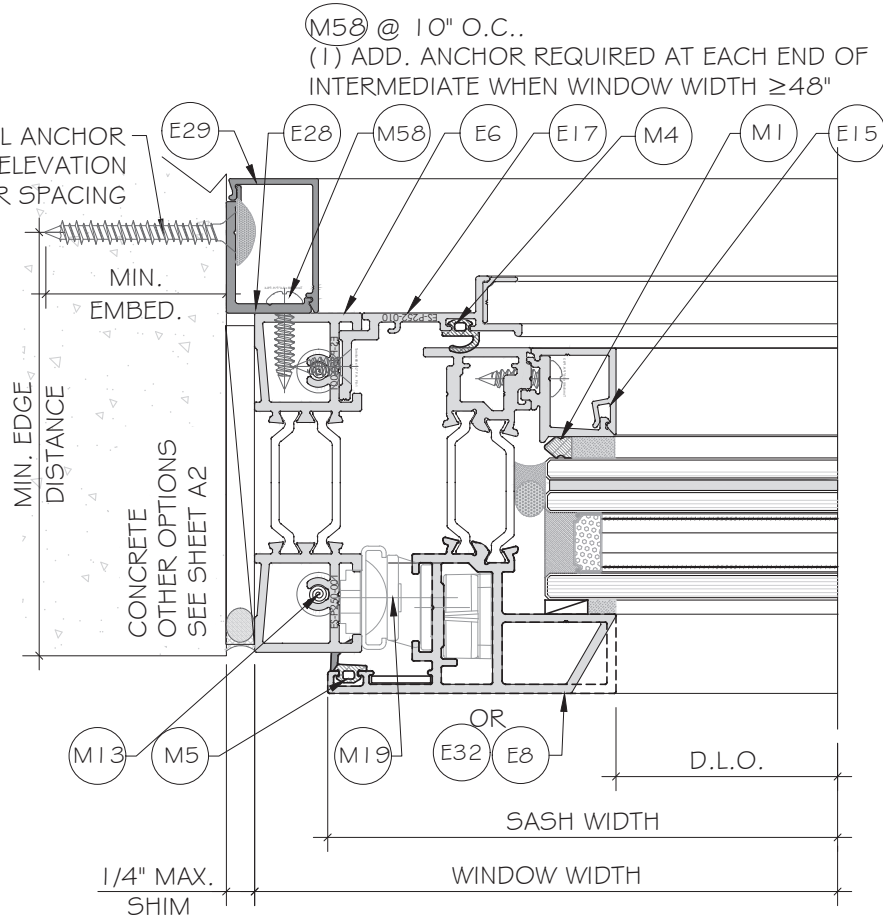
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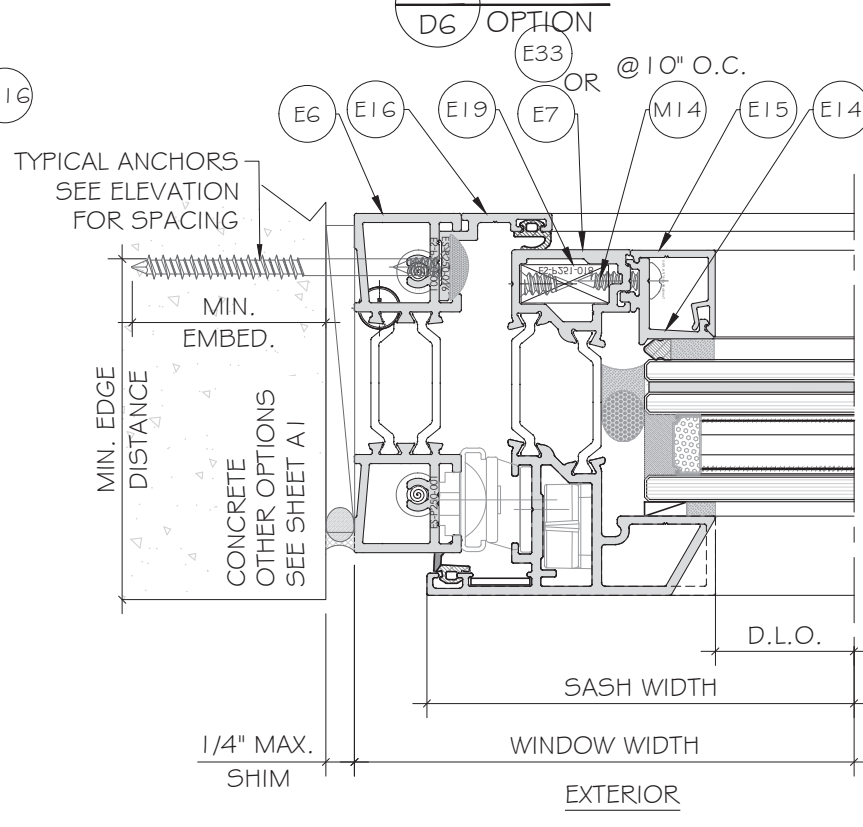
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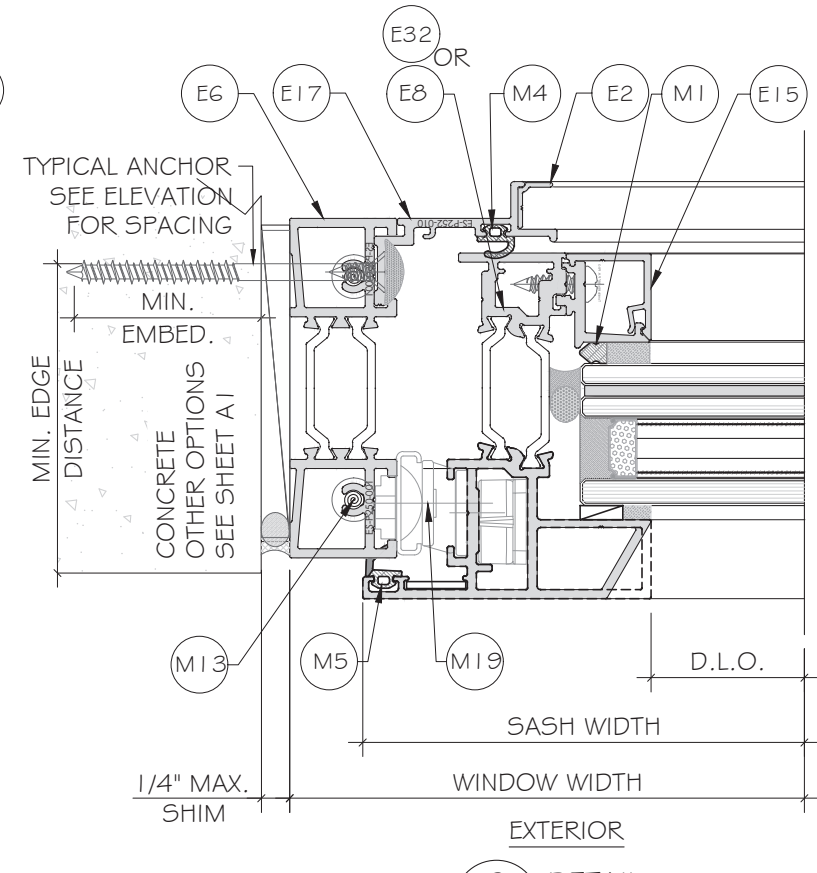
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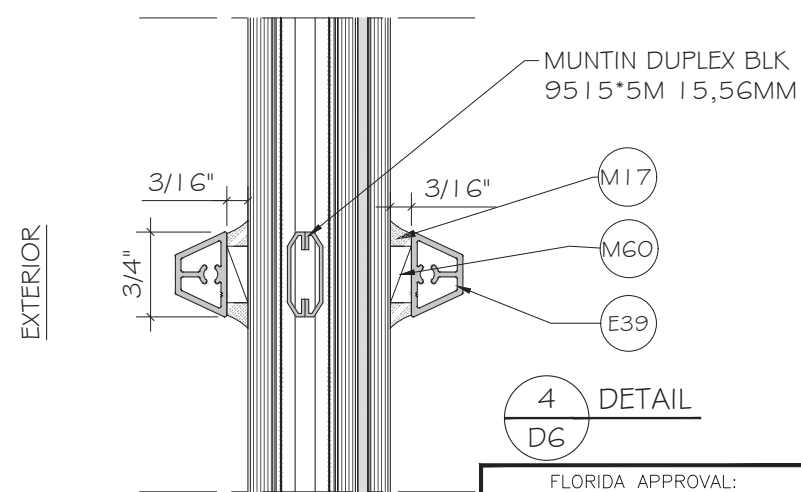
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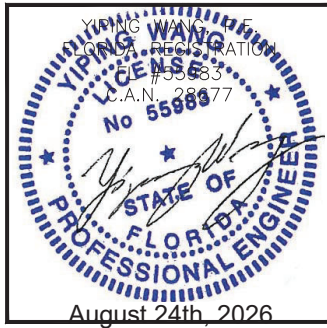


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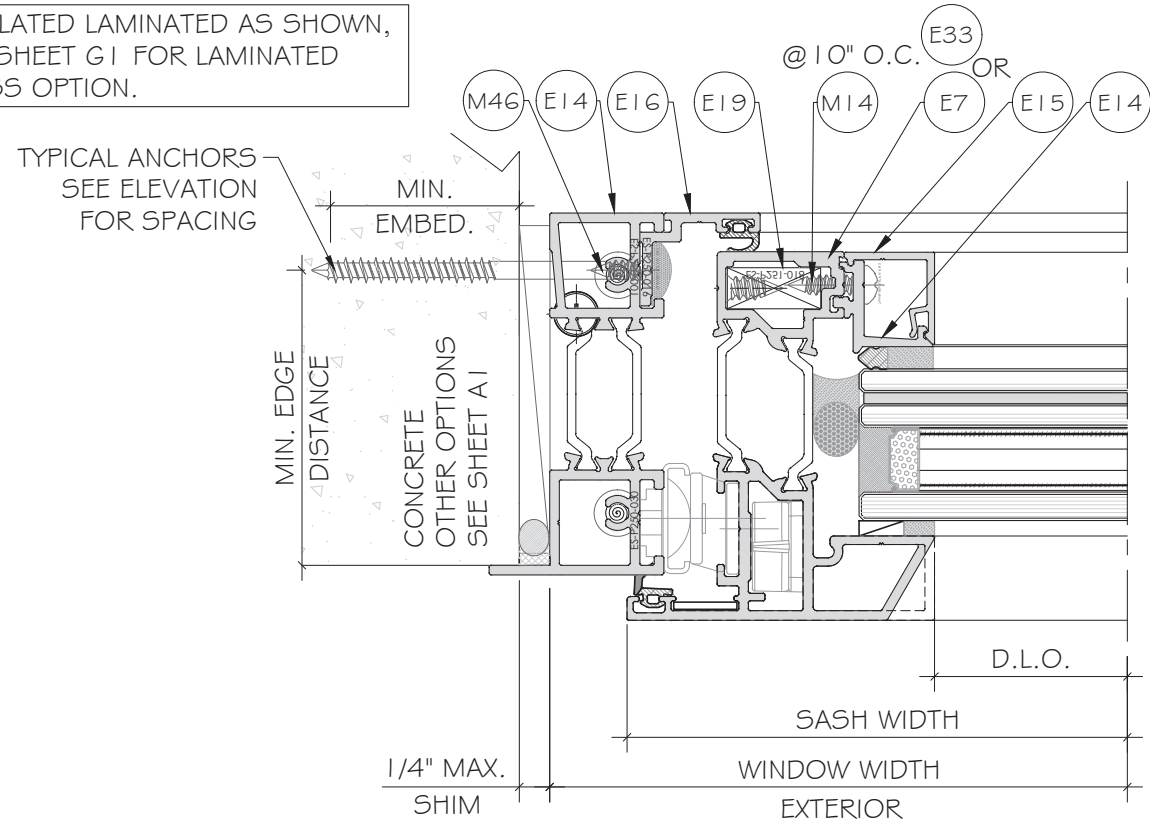


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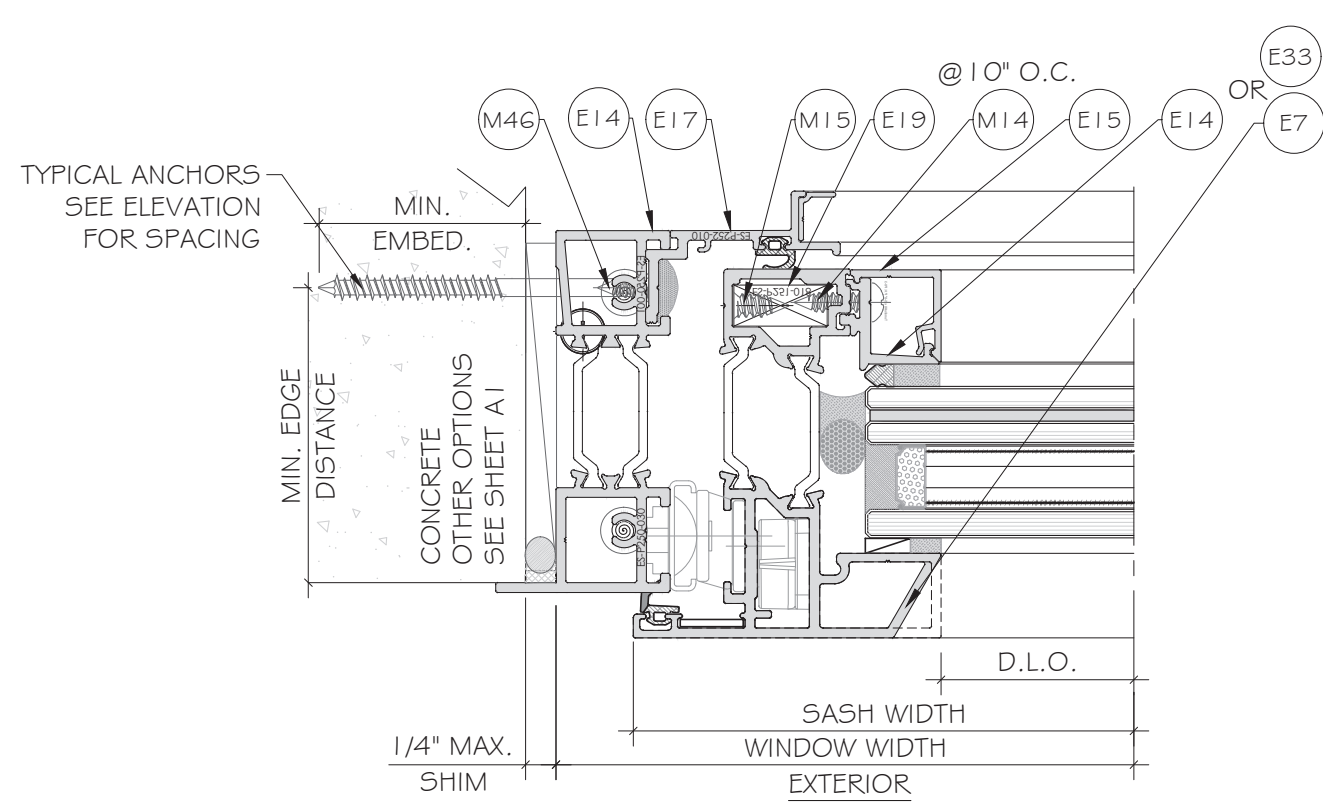
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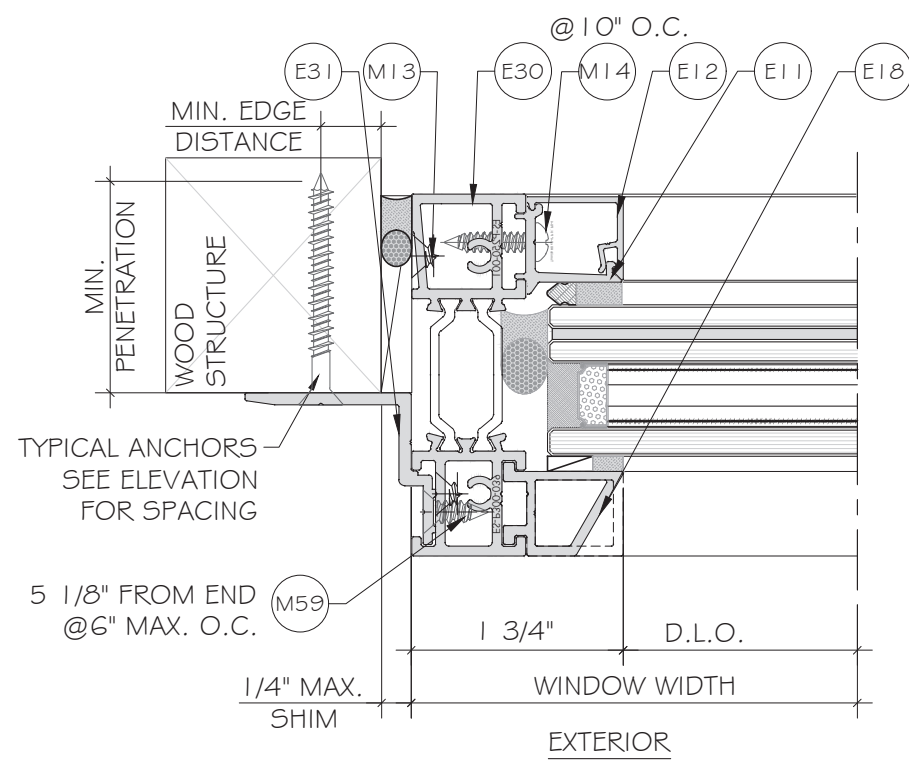
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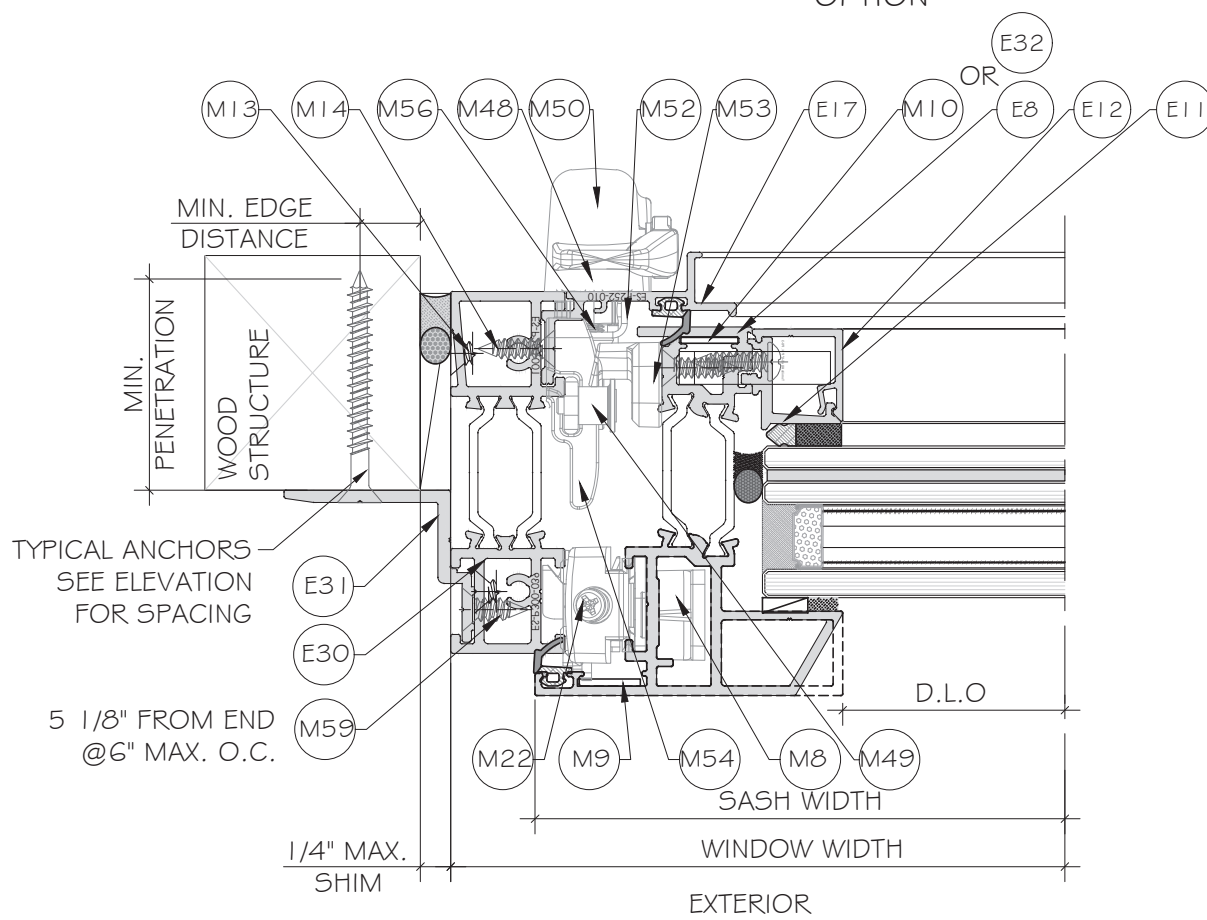
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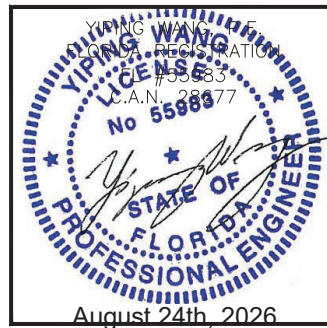


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DETAIL

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AD21-53

D7

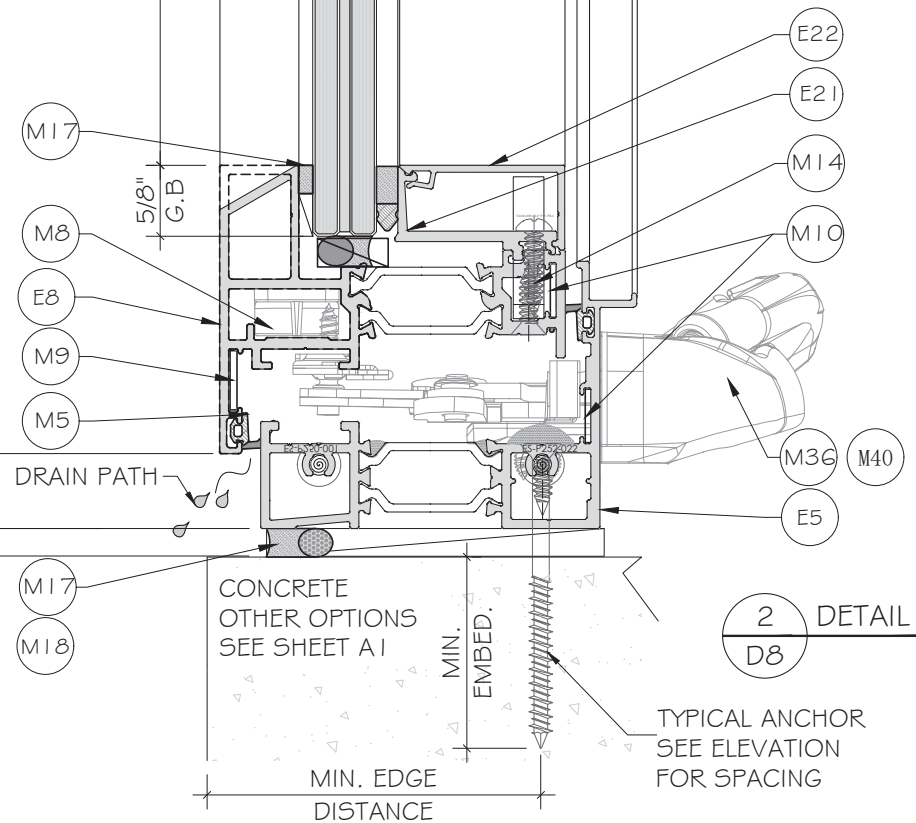
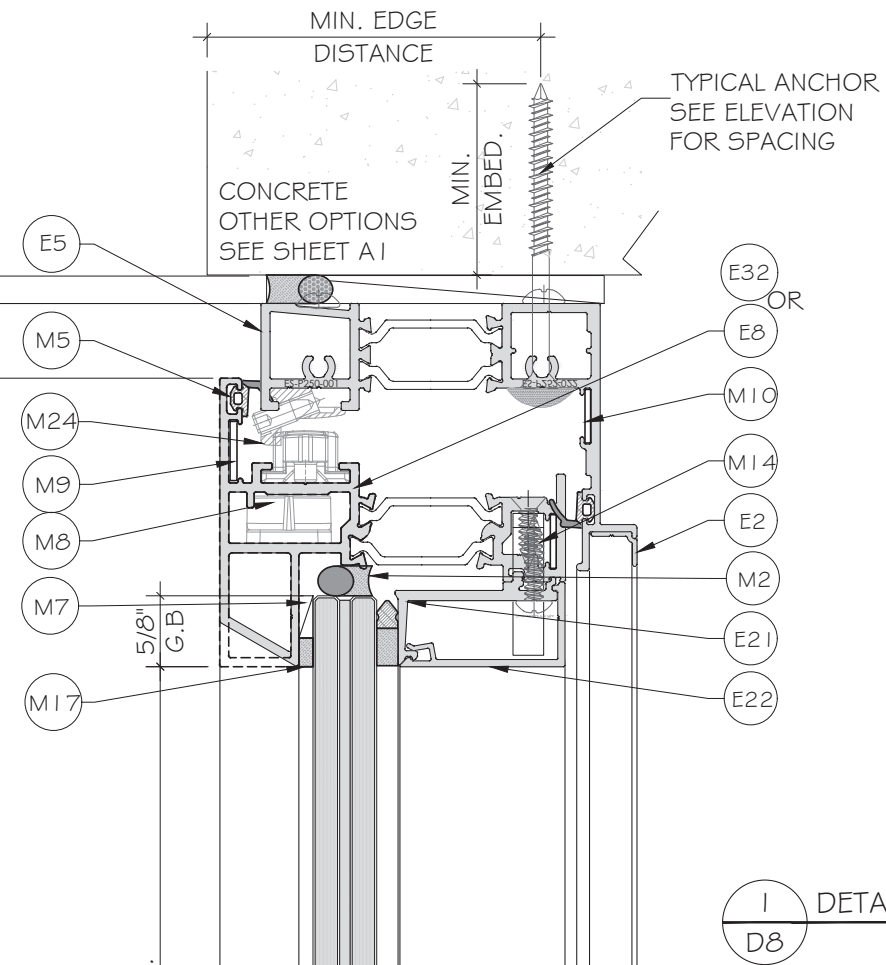
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SHIM

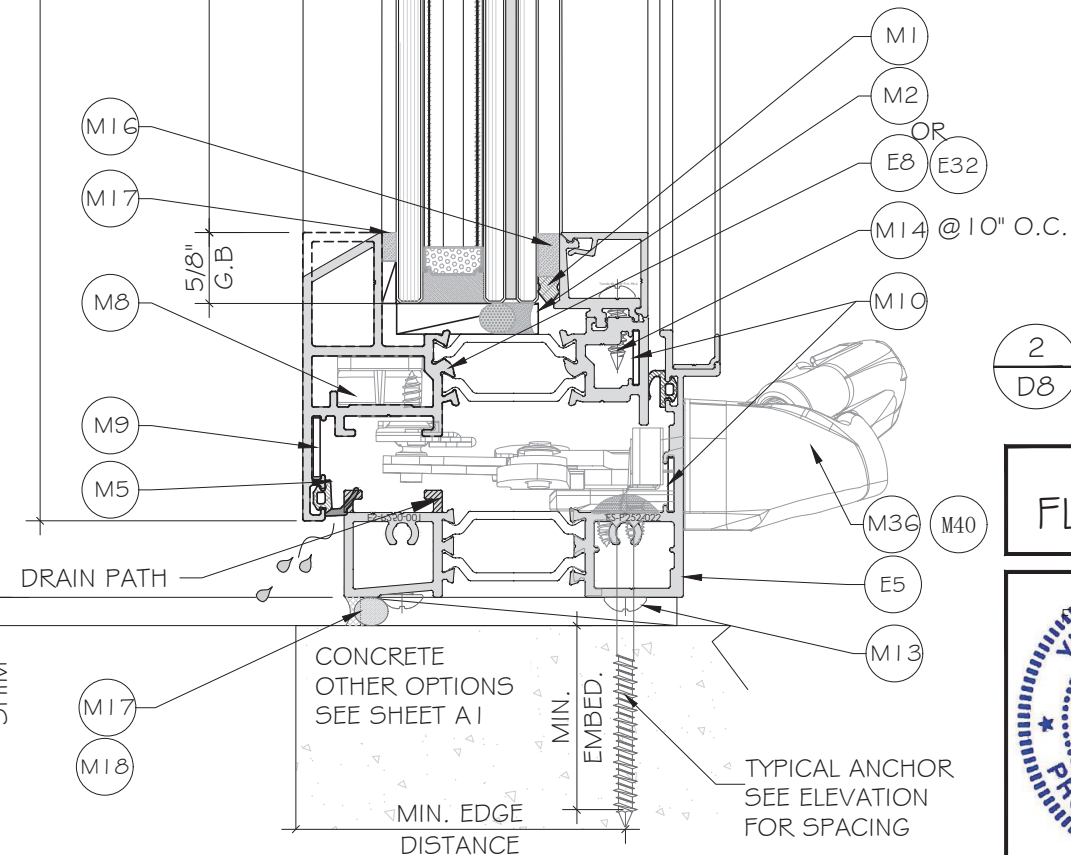
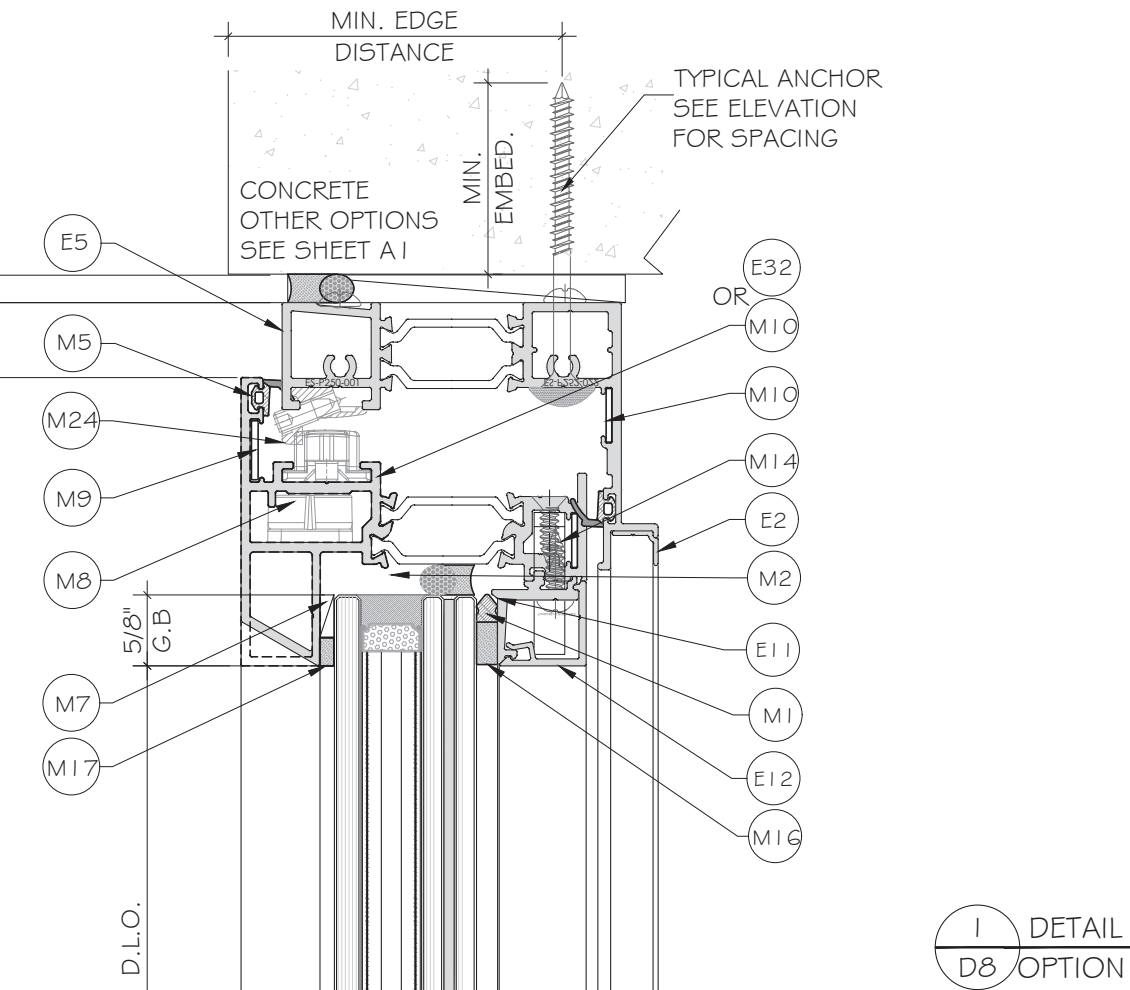


EXTERIOR

FRAME HEIGHT

SASH HEIGHT

1/4" MAX.
SHIM



2 DETAIL
D8 OPTION

FLORIDA APPROVAL:

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YIPING WANG
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No 55988
STATE OF FLORIDA

August 24th, 2026

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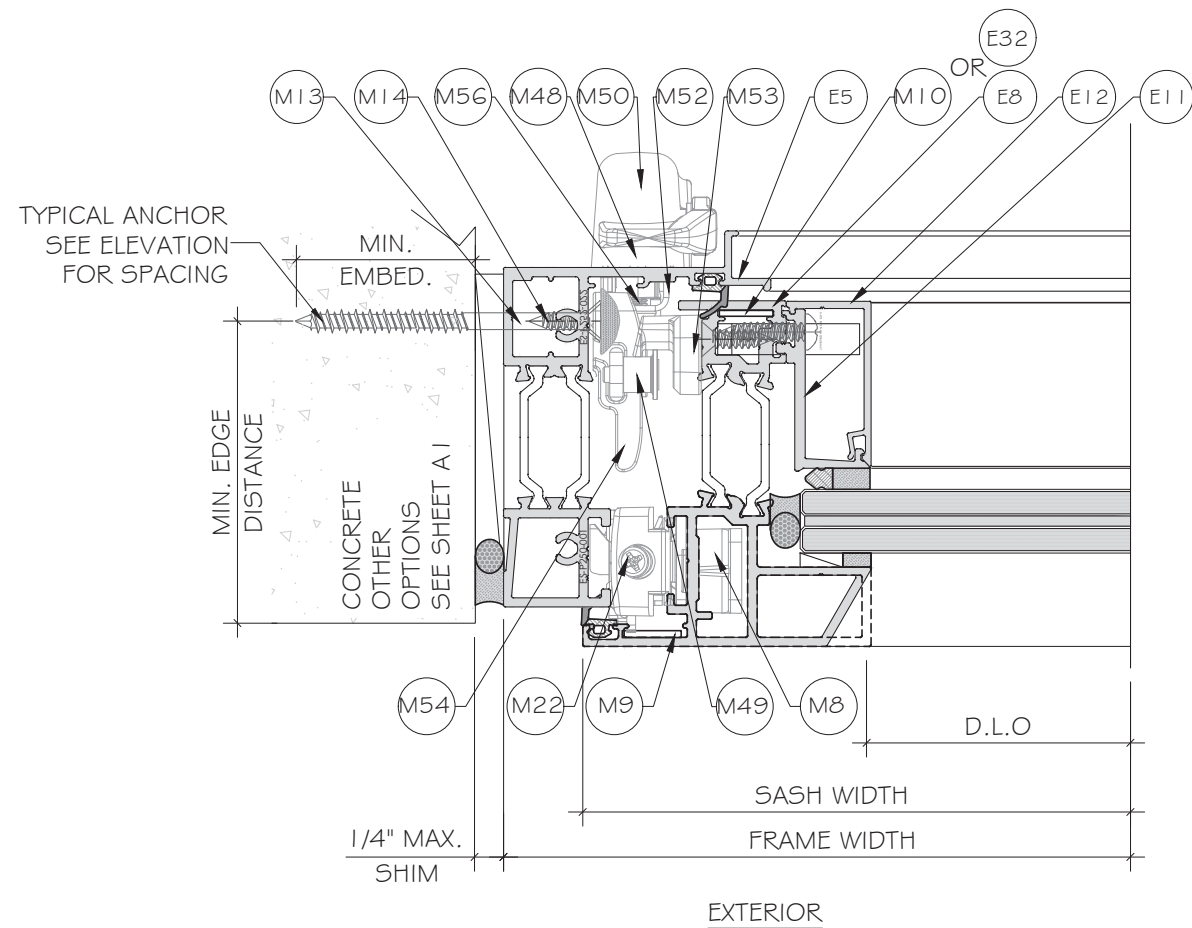
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R6	03.27.2026	JAMES	REV/ISON

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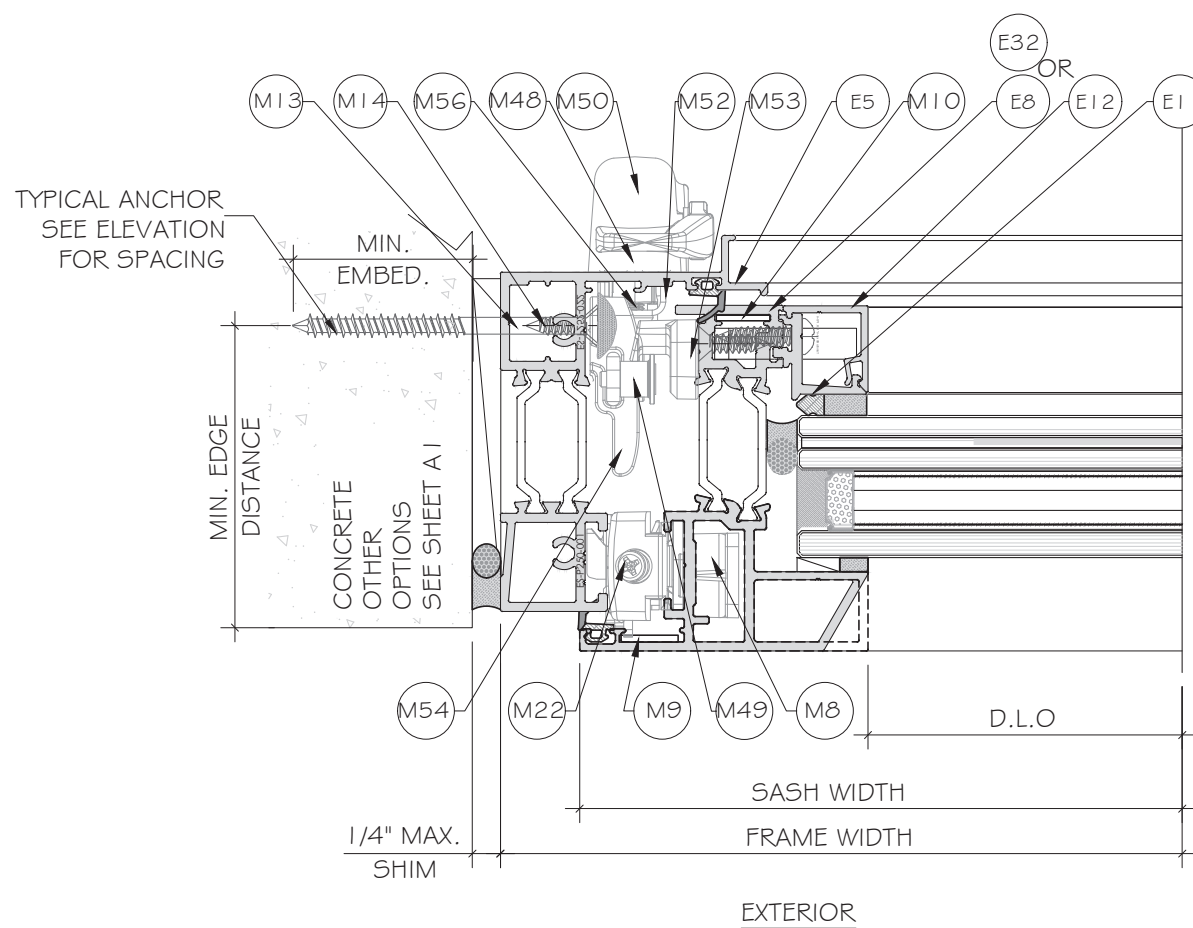
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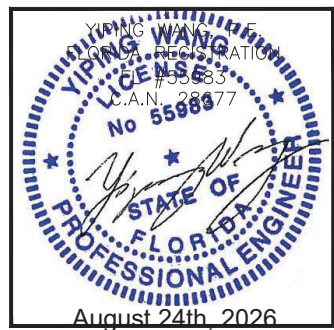


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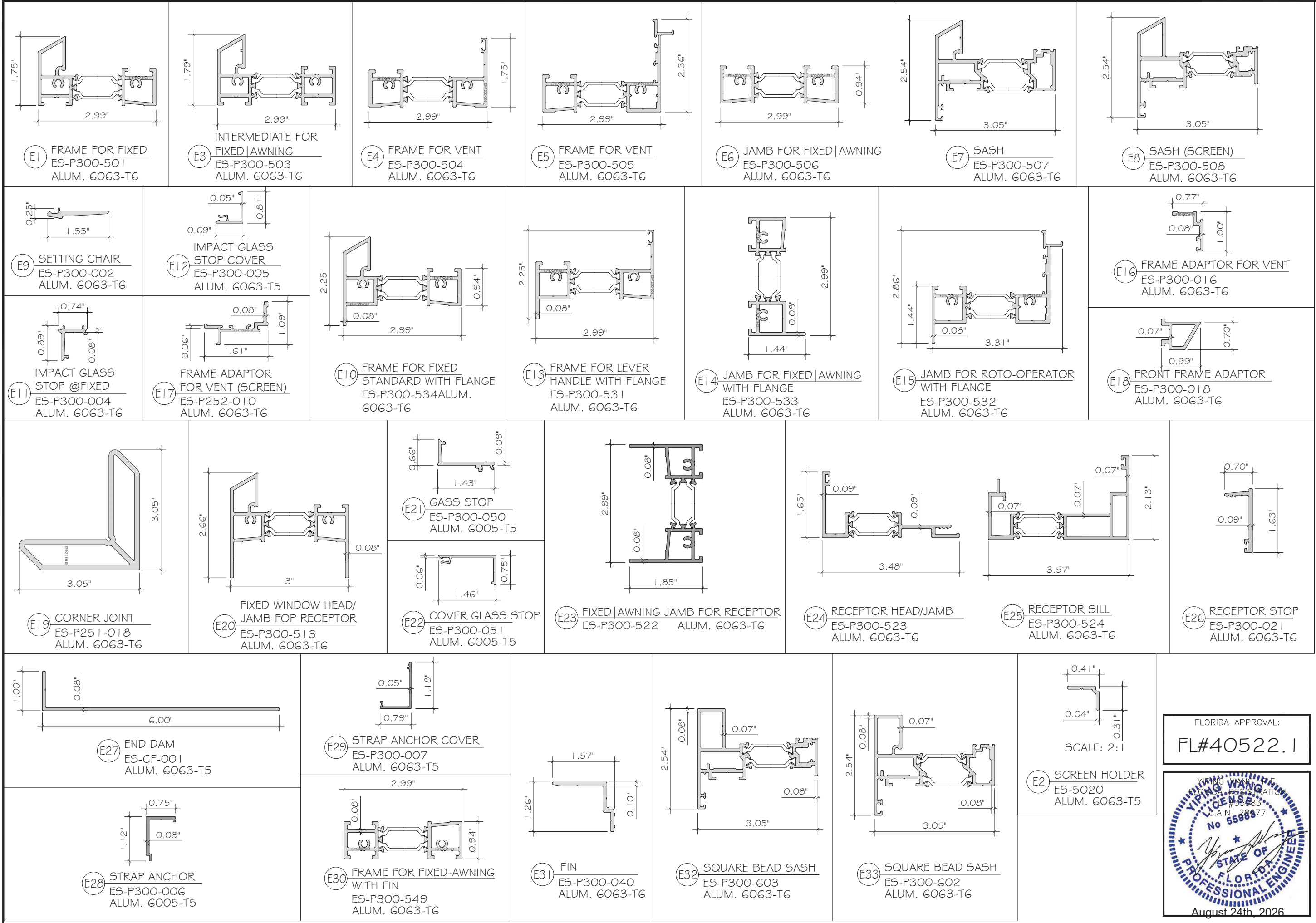


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Rev. No.	Date	Drawn By	Description
R7	08.24.2026	JAMES	REVISION
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DRAWING NO.

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PART

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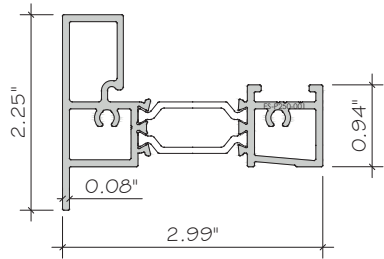
YIPING WANG

REGISTERED PROFESSIONAL ENGINEER

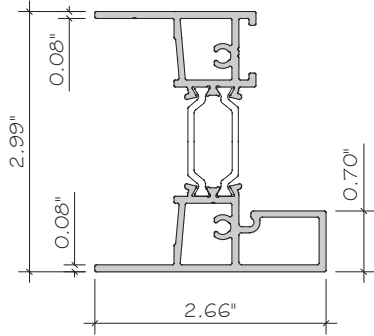
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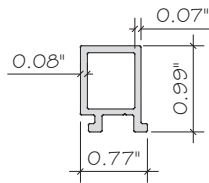
August 24th, 2026



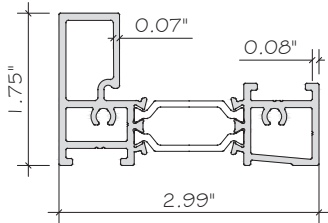
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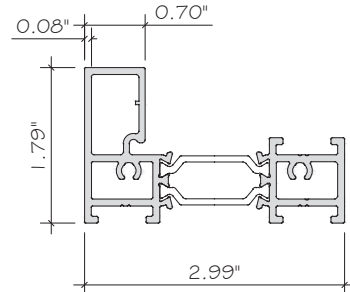
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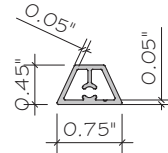
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E37 SQUARED BEAD STD
ES-P300-593
ALUM. 6063-T6



E38 INTERMEDIATE
ES-P300-610
ALUM. 6063-T6



E39 CENTRAL MUNTIN
ES-H400-019
ALUM. 6063-T5

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F.L.A.N. 28477
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