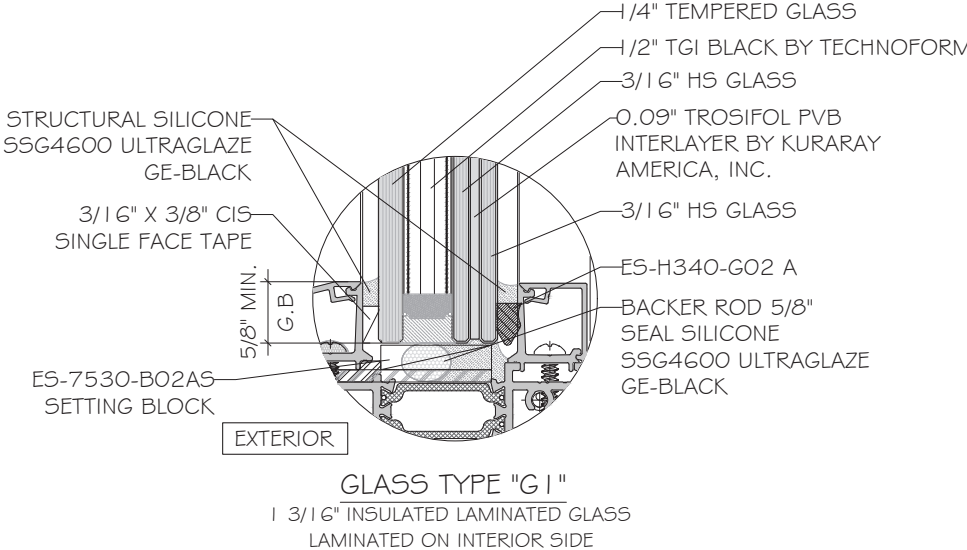


ES.WINDOWS
ES-P300 OFFSET FIXED WINDOW
LARGE MISSILE IMPACT



GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. LARGE MISSILE IMPACT SYSTEM TO BE USED UP TO 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 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.
- 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.
- SEALANT:
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.

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 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION & DESIGN LOAD.
- STEP 3: ANCHOR OPTION SEE SHEET A1 TO A2. ANCHOR SPACING SEE SHEET E1.
- 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 US

- 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.
- 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

FL48266.



ES-P300 OFFSET FIXED WINDOW-LMI

E.S.WINDOWS, INC.
10653 NE QUAYBRIDGE C

MIAMI, FL 33138
TEL (305) 624-777

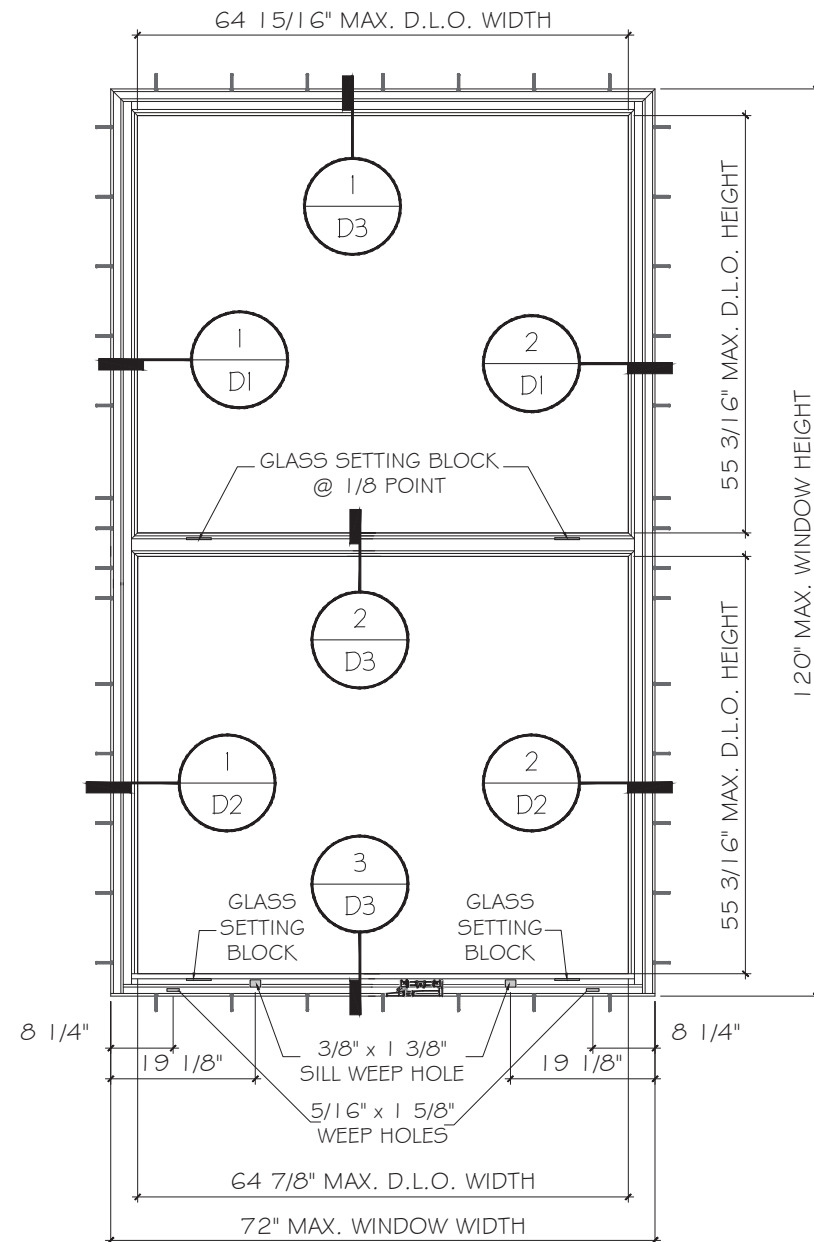
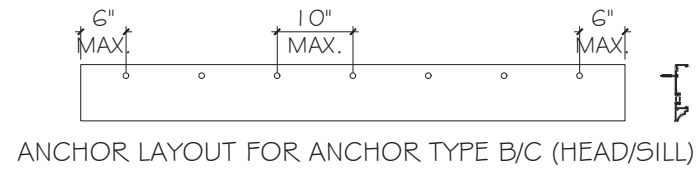
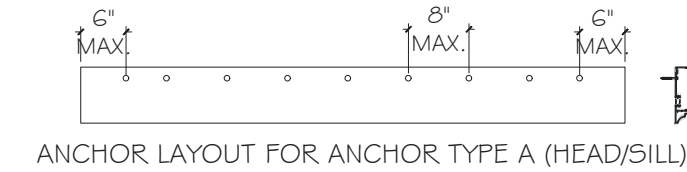
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301

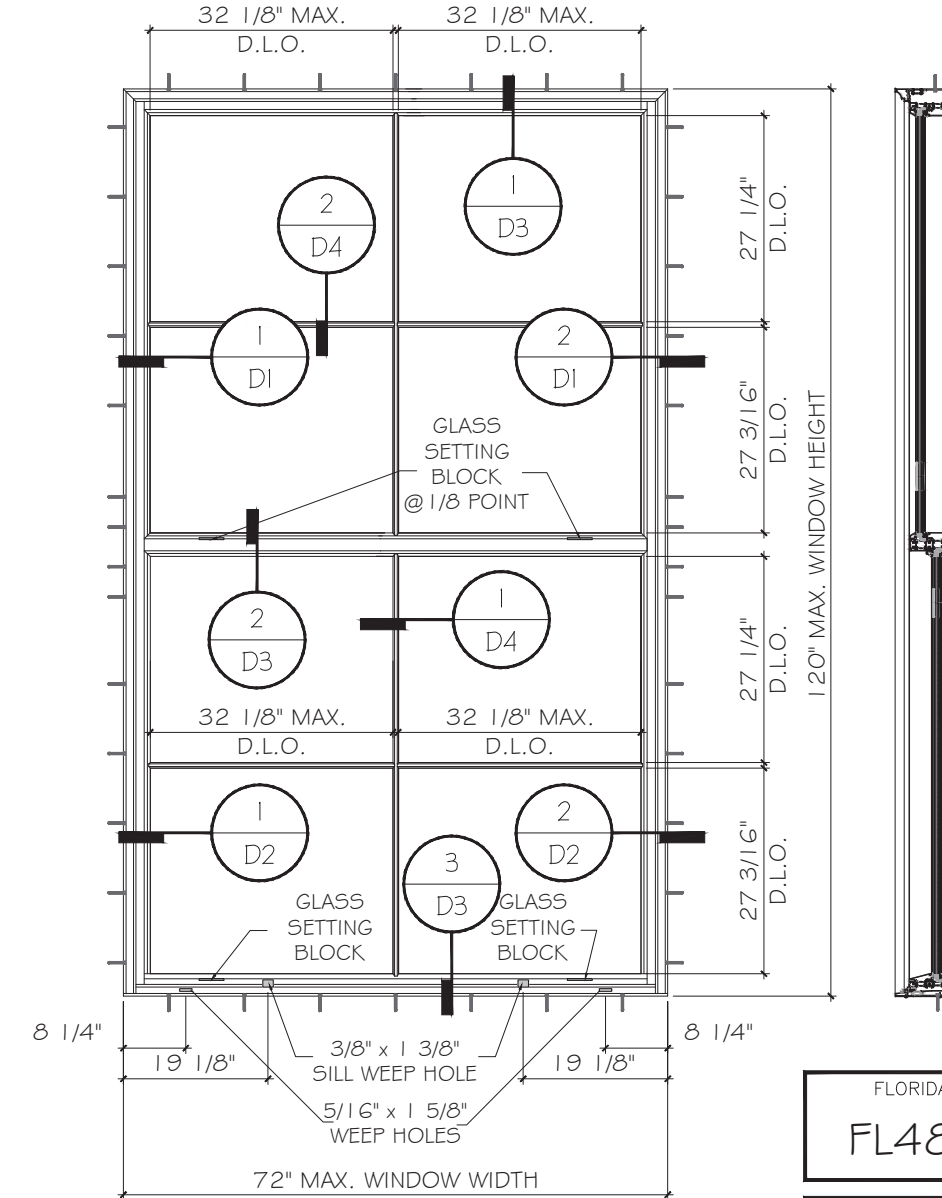
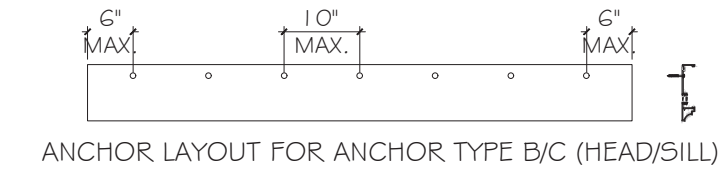
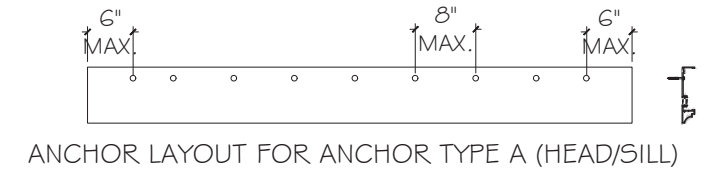
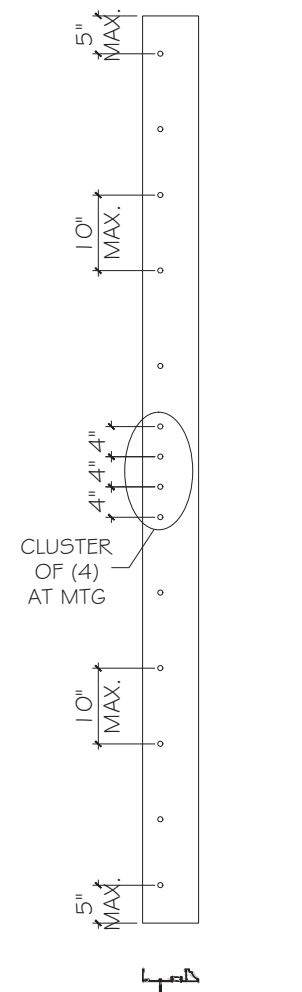
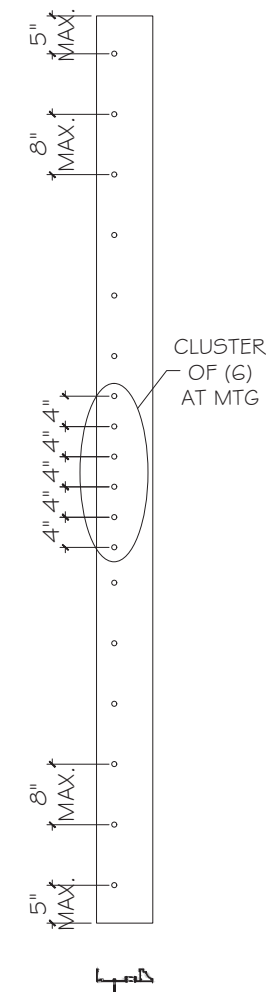
MIRAMAR, FL 33027

www.MCYEngineering.com
mcy@mcycengineering.com

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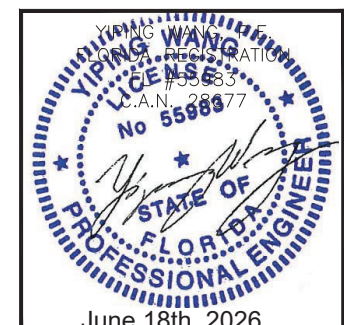


MAX. DESIGN LOAD: +/-85 PSF
FOR SIZE SHOWN ABOVE OR SMALLER
AS PERMITTED BY FBC.



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GLAZING CONSULTANTS

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

[illegible]

HEAD/JAMB ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRAACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION INTO WOOD
OR THRU 1BY WOOD BUCK INTO CONCRETE OR GROUT FILLED BLOCK
WITH 1 3/4" MIN. EMBED INTO CONCRETE
OR 2 1/4" EMBED INTO GROUT FILLED BLOCK (JAMB ONLY)

TYPE "B": 1/4" DIA. ULTRAACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED INTO CONCRETE.
OR INTO GROUT FILLED BLOCK WITH 2 1/4" MIN. EMBED. (JAMB ONLY)

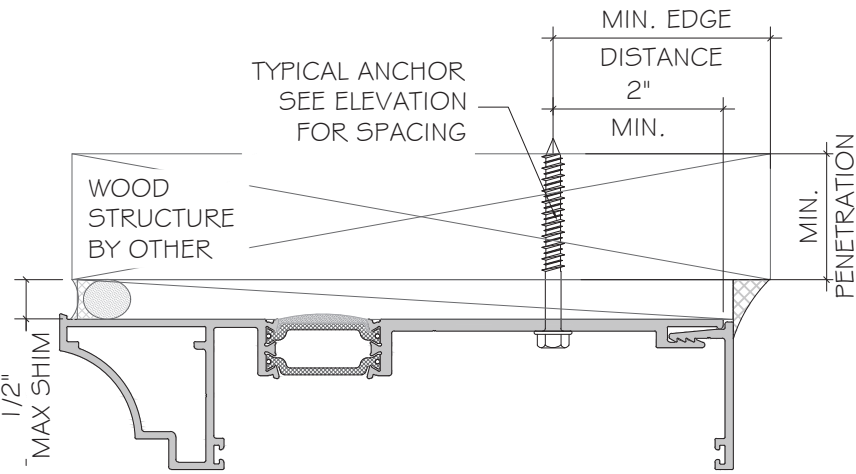
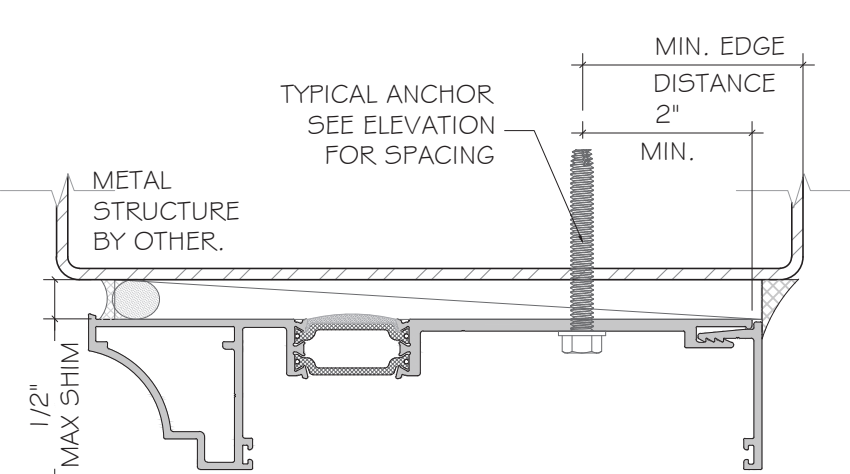
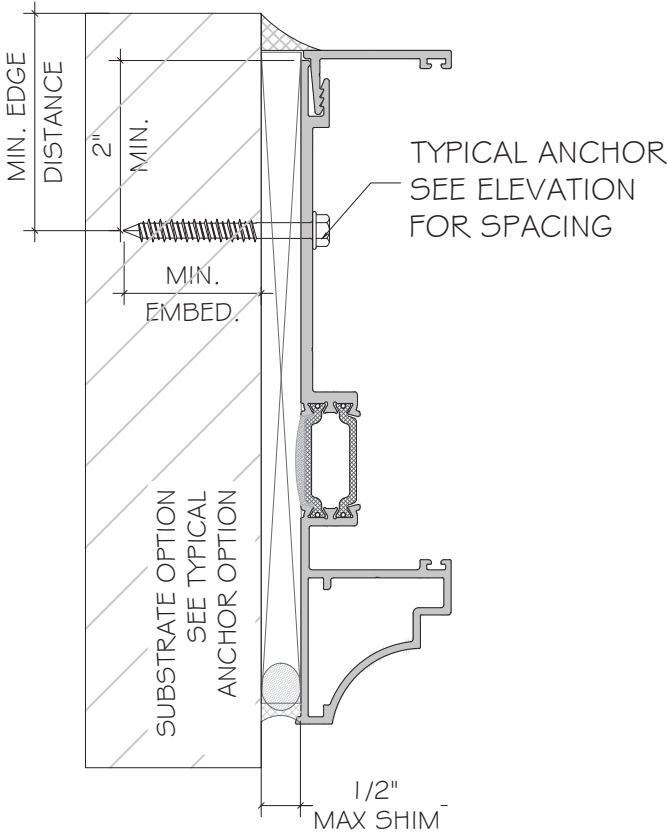
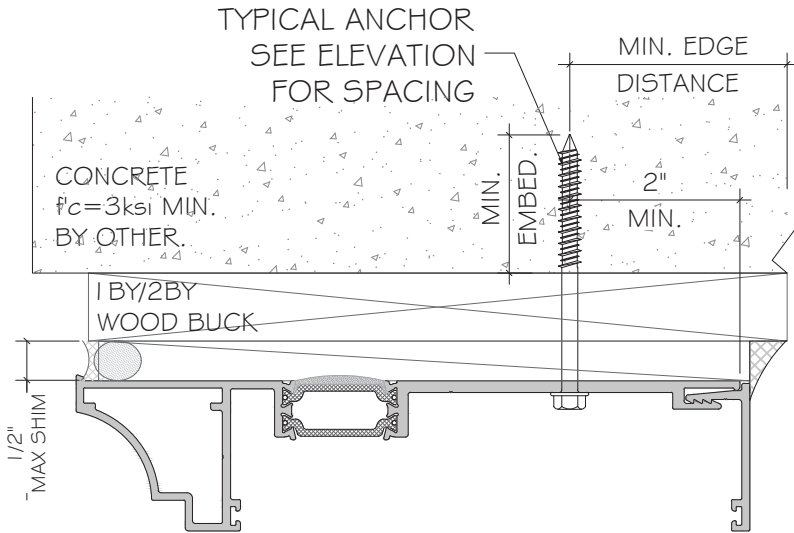
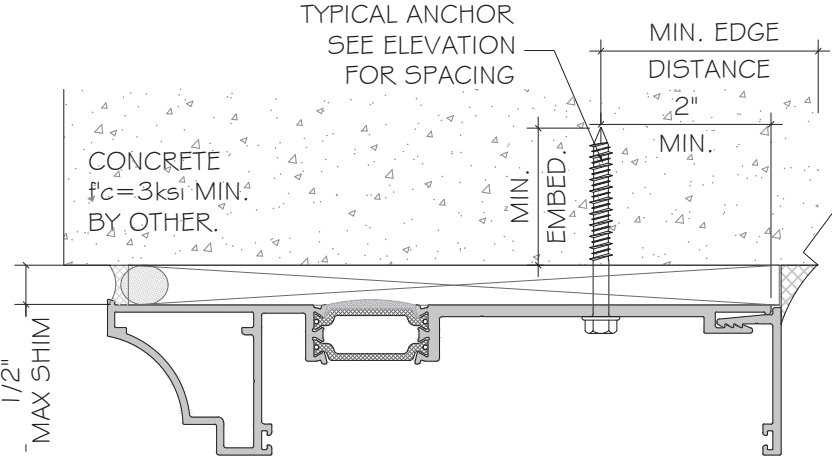
TYPE "C": 1/4" TEKS SELF-DRILLING SCREW (GRADE 5)
INTO FLORIDA APPROVED MULLIONS OR METAL STRUCTURES.
(3) THREAD MIN. PENETRATION BEYOND METAL STRUCTURE.
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED).

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

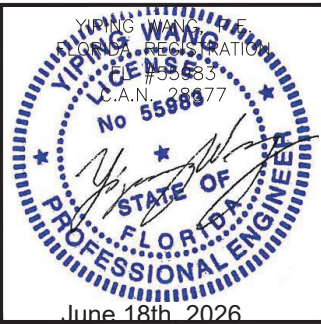
WOOD SG = 0.55 MIN.
CONCRETE f'c = 3000 PSI MIN.
12 GA. MIN. (Fy=36 KSI MIN.)
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 983.
FRAME CORNERS SEALED WITH DOW CORNING 999 OR EQUAL COMPATIBLE

NOTE: WOOD BUCKS/METAL STRUCTURES BY OTHERS TO BE
DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS SYSTEM AND
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Rev. No.	Date	Drawn By	Description
R0	06.18.2026	JAMES	NEW APPLICATION
Drawn Date	06.18.2026	Scale	AS SHOWN
DRAWING NO. AD26-22			
A1			
Sheet No. 3 OF 11			

SILL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

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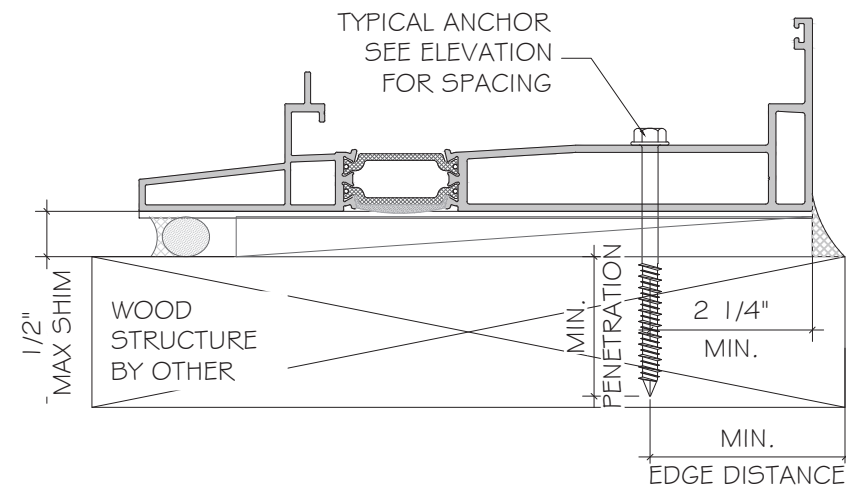
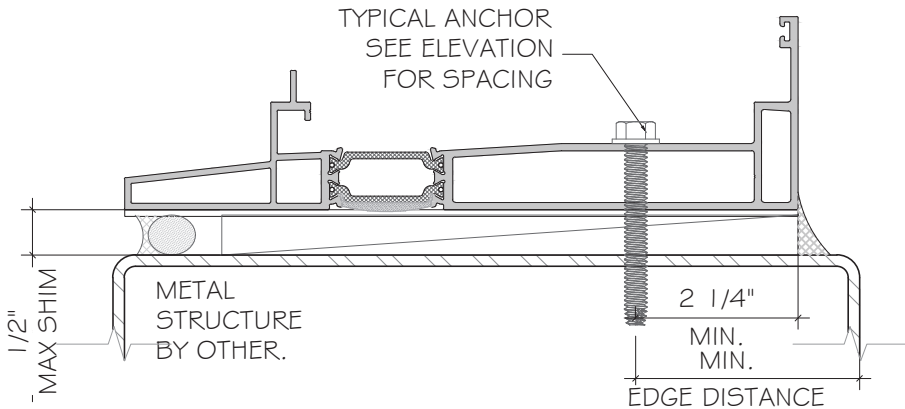
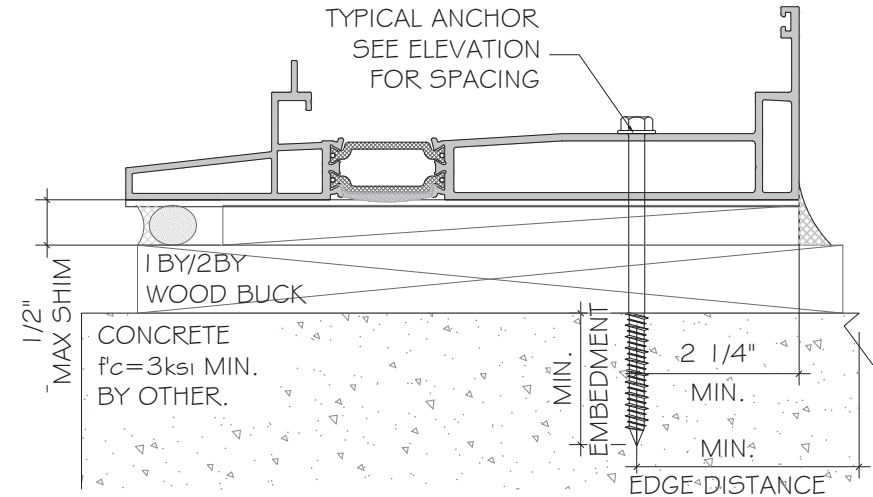
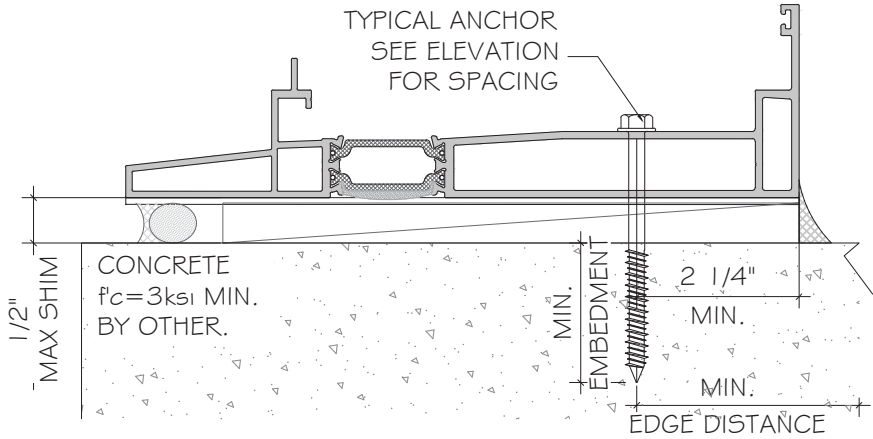
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FL48266.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55988
C.E.N. 28477

June 18th, 2026

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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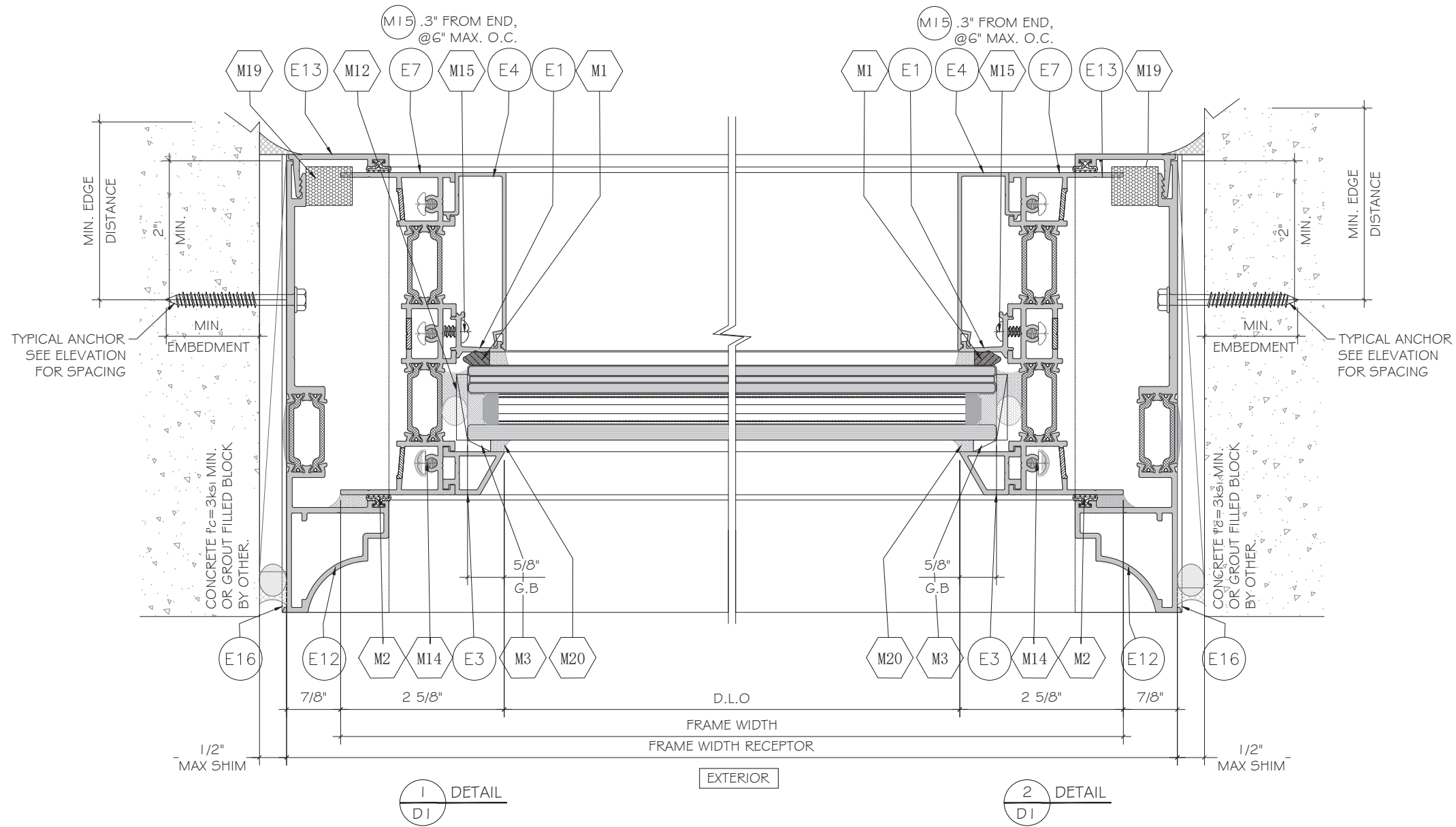
Scale
AS SHOWN

DRAWING NO.

AD26-22

Sheet No.

4 OF 11



FLORIDA APPROVAL:
FL48266.1



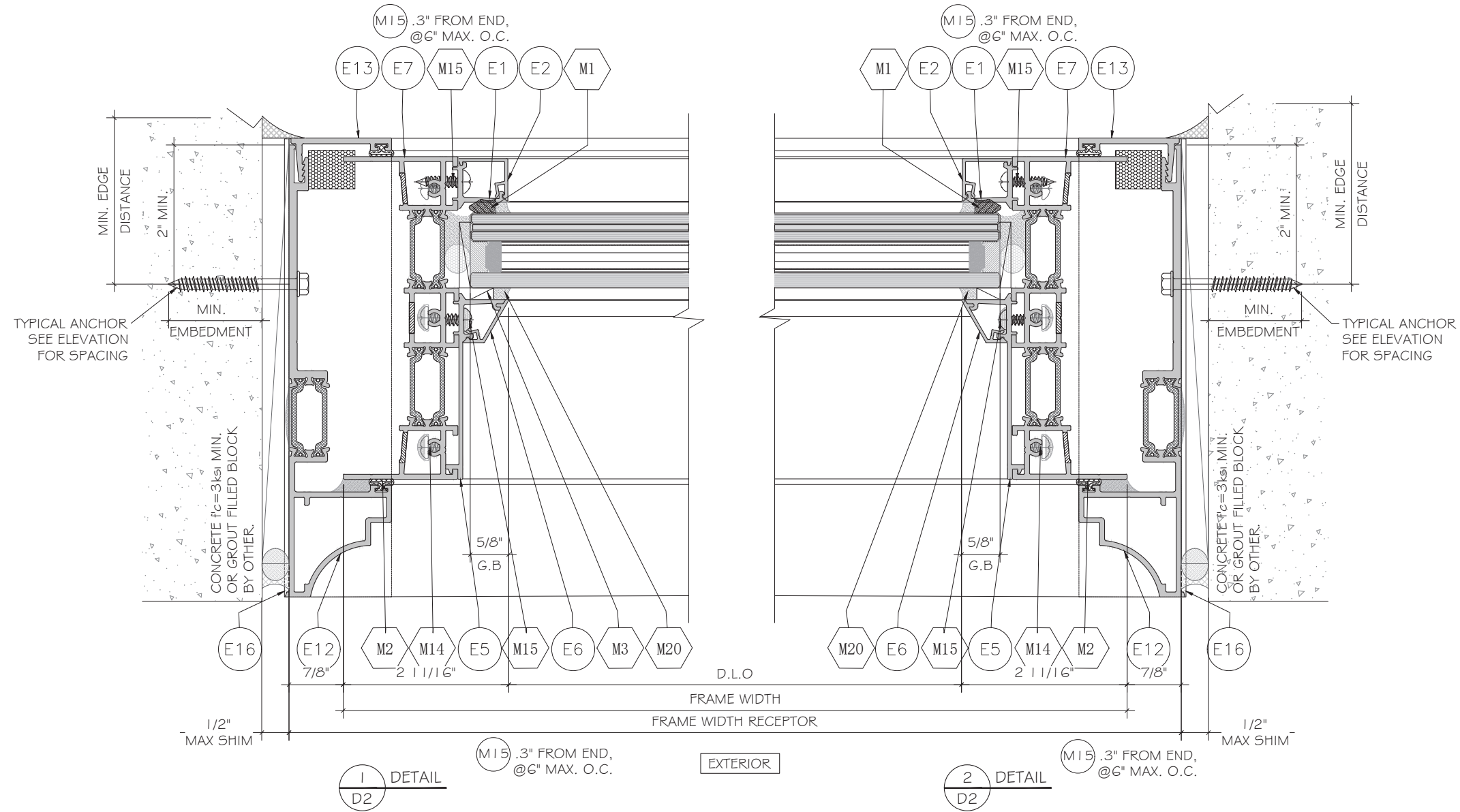
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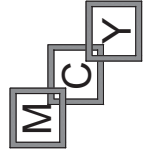


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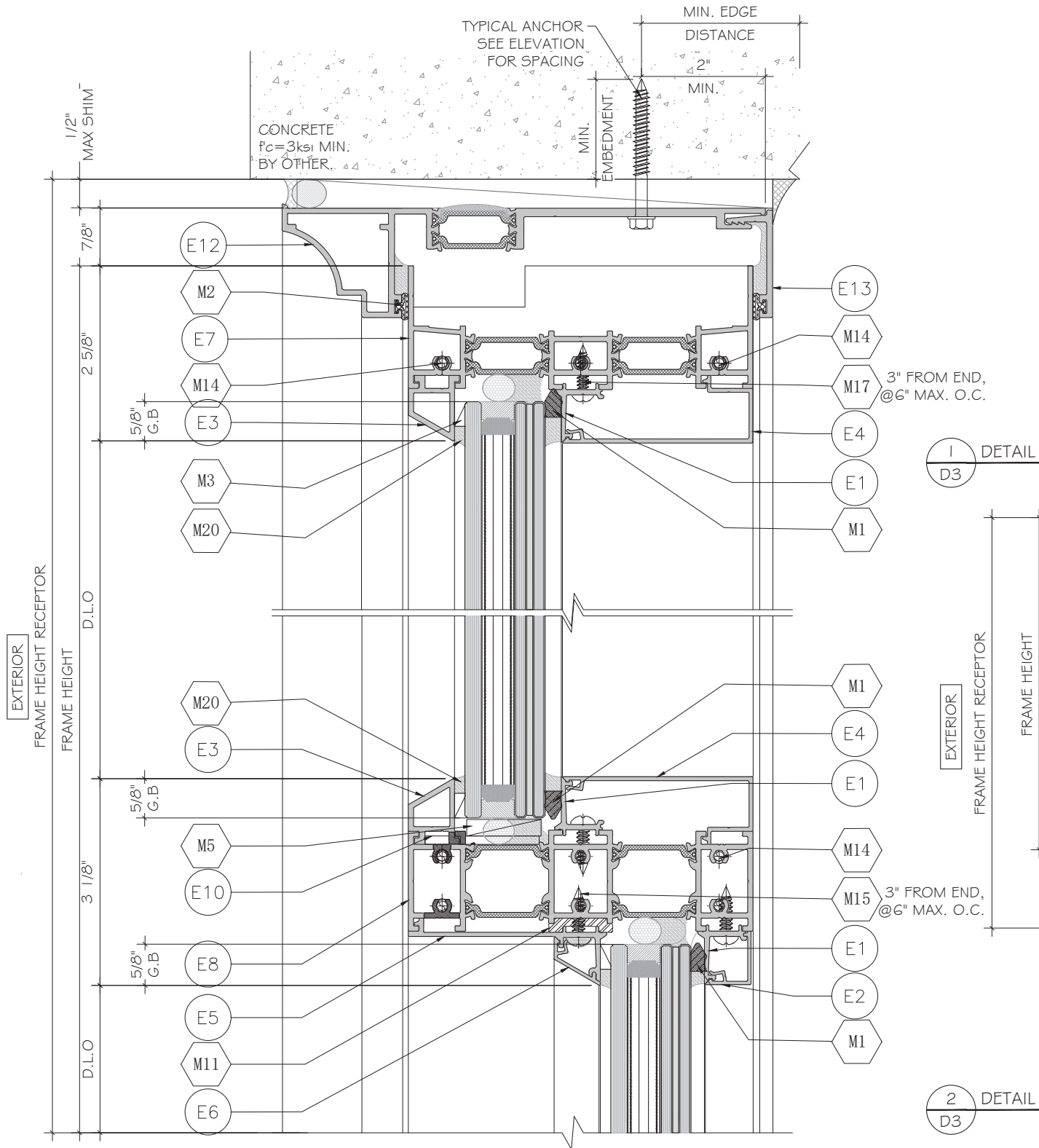
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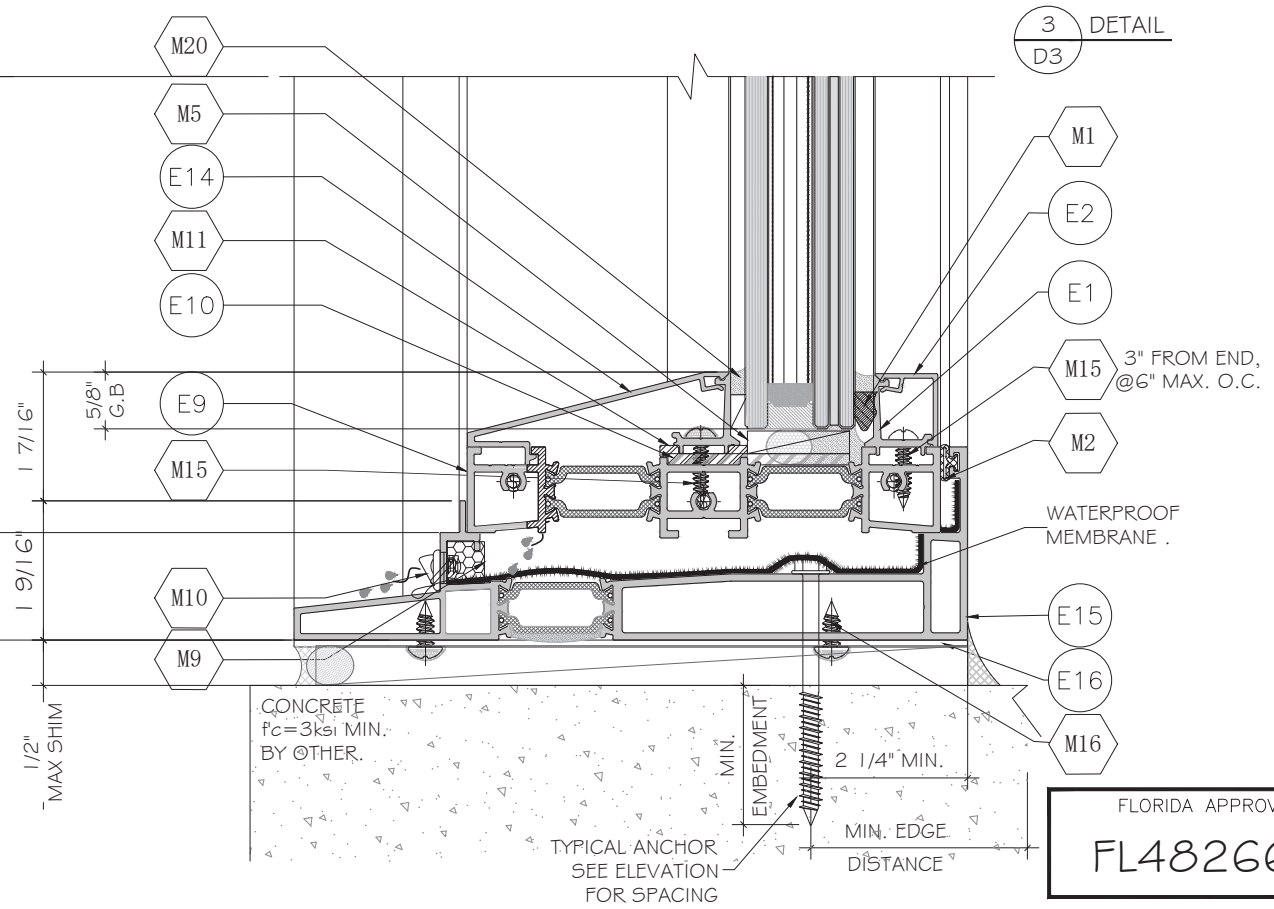
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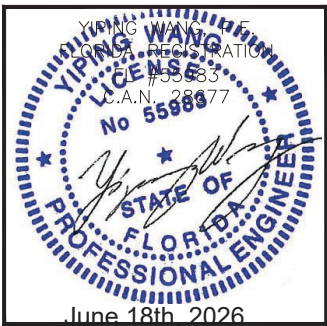
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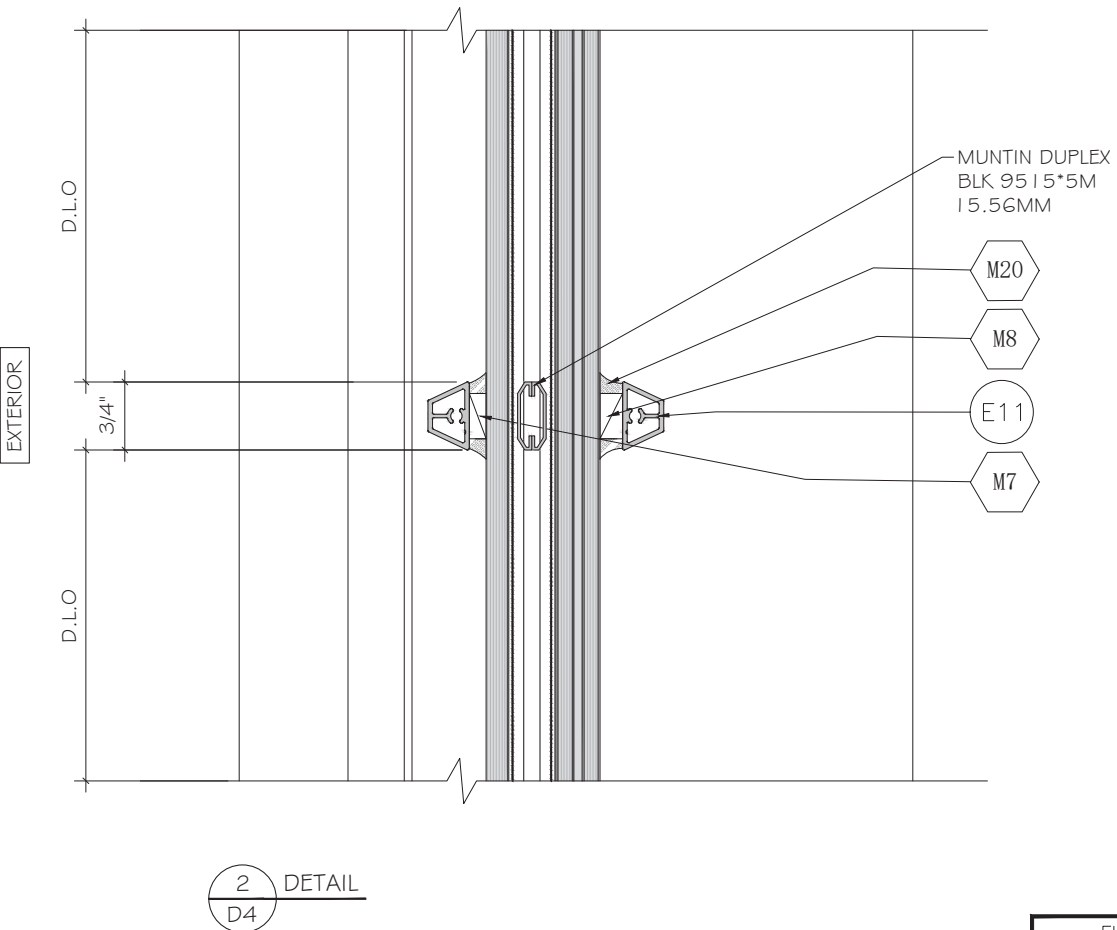
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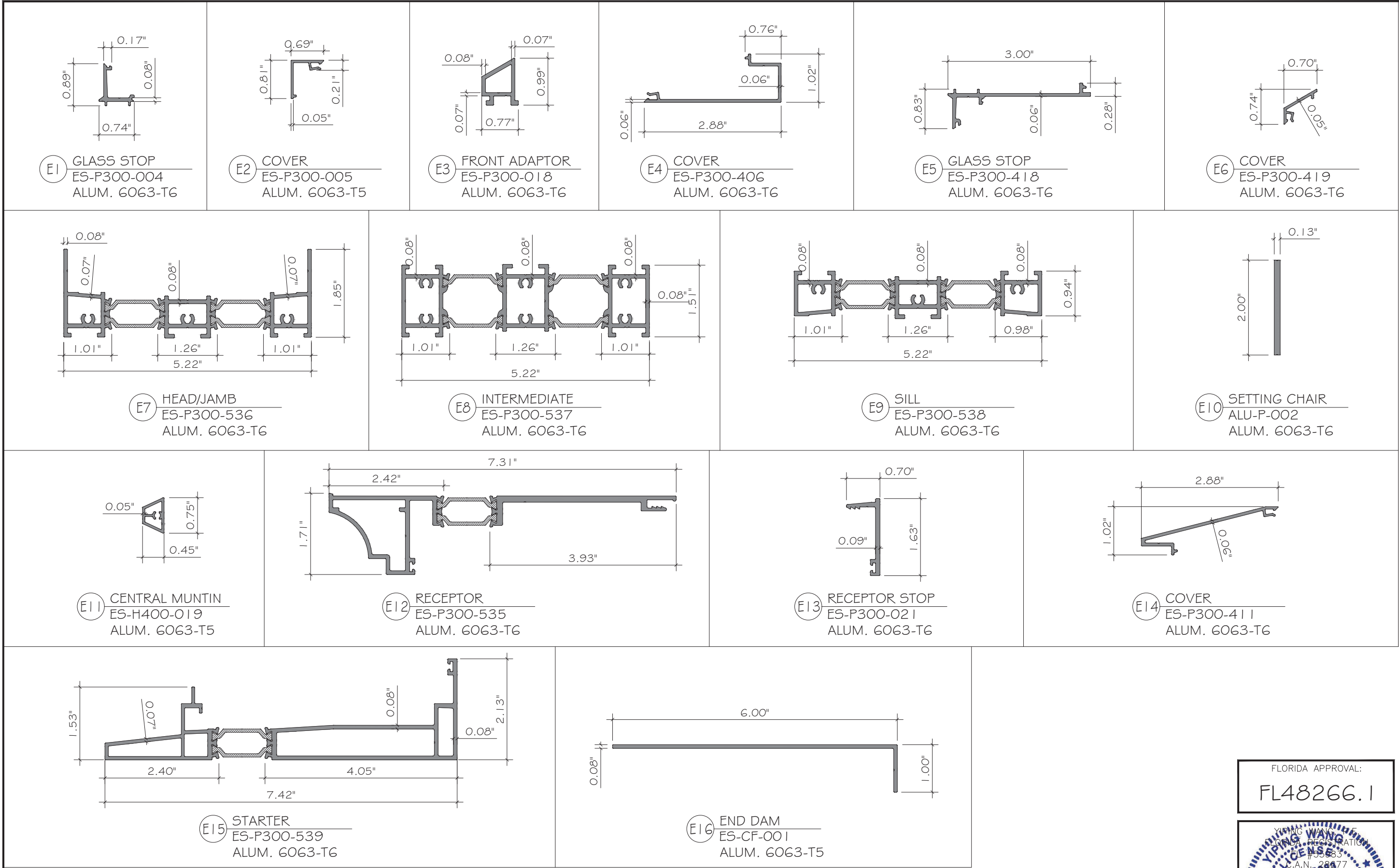
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