

ES WINDOWS, INC.
SERIES AC-CWO11 CURTAIN WALL SYSTEM
LARGE MISSILE IMPACT (LEVEL D & LEVEL E)

SERIES 7000 CURTAIN WALL LMI LEVEL D & LEVEL E

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

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. F.B.C. SHUTTERS ARE NOT REQD.

THIS SYSTEM IS 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 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
SEALED WITH SILICONE SEALANT.

INSTRUCTIONS:

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.

STEP 2: SEE SHEET G I FOR APPROVED GLASS TYPES. SEE SHEET E I FOR APPROVED CONFIGURATION AND DESIGN LOAD CAPACITIES BASED ON APPLICABLE WIND DURATION

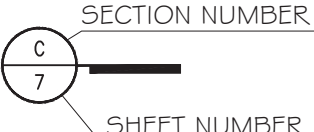
STEP 3: ANCHOR OPTION FOR TYPICAL SILL SEE SHEET A1.

STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 SHALL APPLY TO ENTIRE SYSTEM.

STEP 5: FOR ANCHOR CONDITION IN JOB EXCEEDS THE APPROVED LOAD, TO BE ENGINEERED SEPARATELY.

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
O.H. - OPPOSITE HAND
OPP.- OPPOSITE

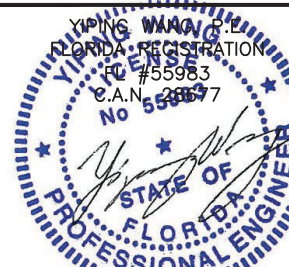


LIMITATIONS OF USE

- A.** THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS WHERE THE SITE DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. GENERIC AND 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 THE 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

FLORIDA APPROVAL

FL28879.10



December 12th, 202

SERIES AC-CWO | CURTAIN WALL SYSTEM - LMI

TECNOGLASS, LLC

50 NW 49TH STREET

MIAMI, FL 33142

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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MIRAMAR, FL 33027

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11/21/202

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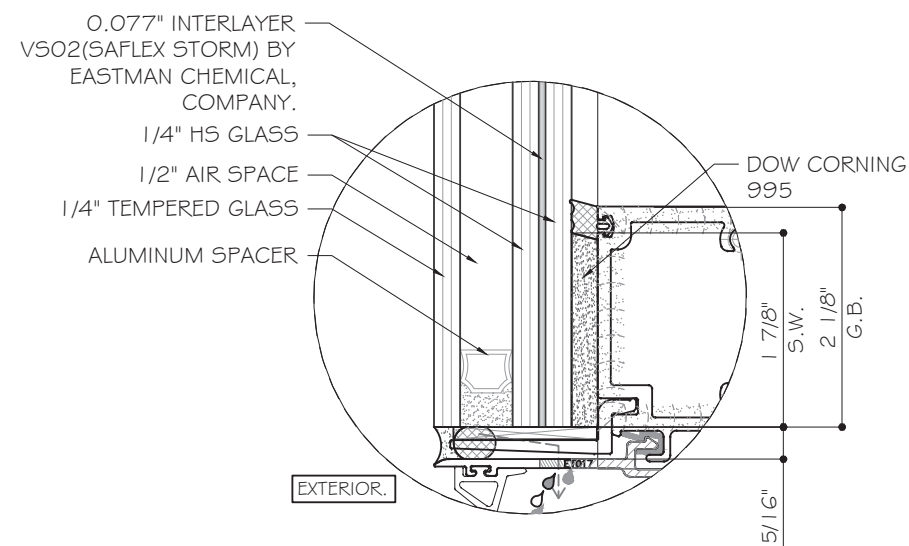
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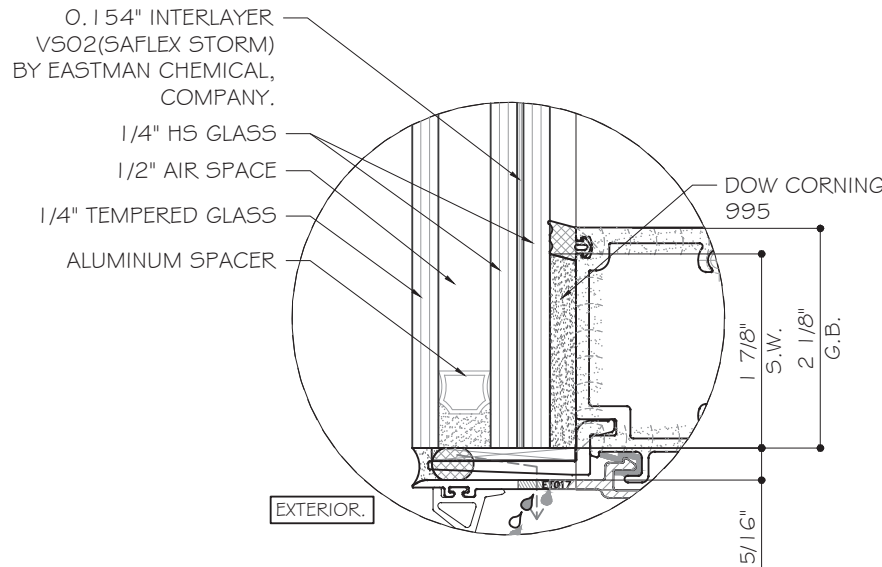
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Sheet 1

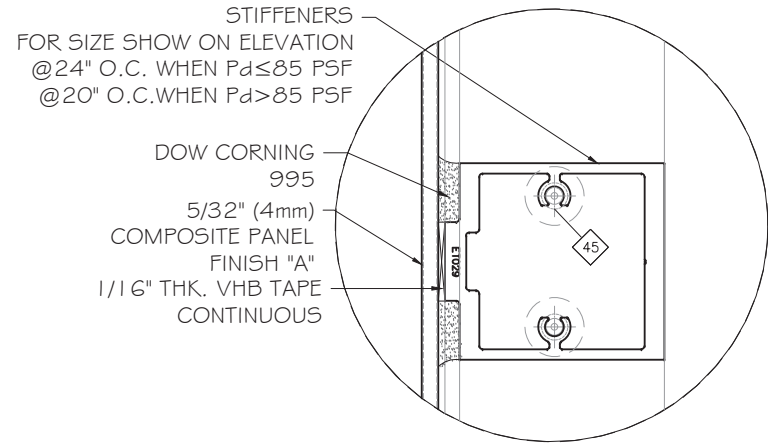
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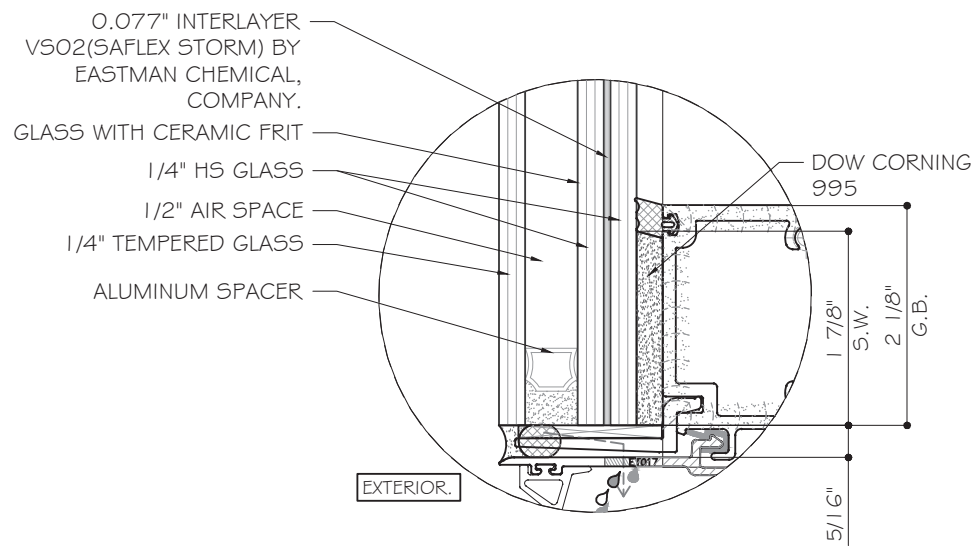
G1 GLASS TYPE 'G1'
5/16" NOMINAL OVERALL
LARGE MISSILE IMPACT LEVEL D



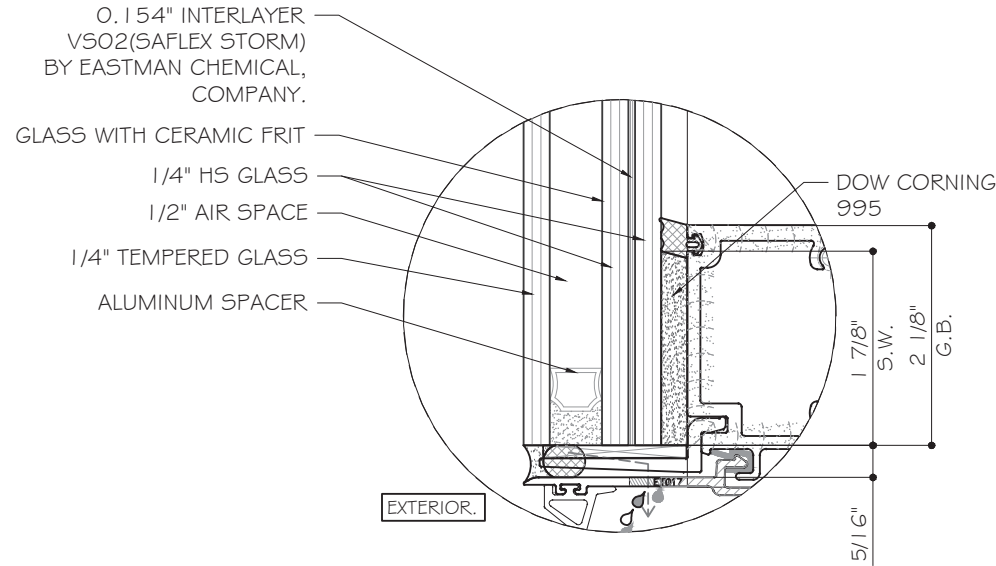
G2 GLASS TYPE 'G2'
3/8" NOMINAL OVERALL
LARGE MISSILE IMPACT LEVEL E



PI 5/32" (4mm) COMPOSITE PANEL
LARGE MISSILE IMPACT LEVEL E



GS1 GLASS TYPE 'GS1'
5/16" NOMINAL OVERALL
LARGE MISSILE IMPACT LEVEL D
SPANDREL GLASS



GS2 GLASS TYPE 'GS2'
3/8" NOMINAL OVERALL
LARGE MISSILE IMPACT LEVEL E
SPANDREL GLASS

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

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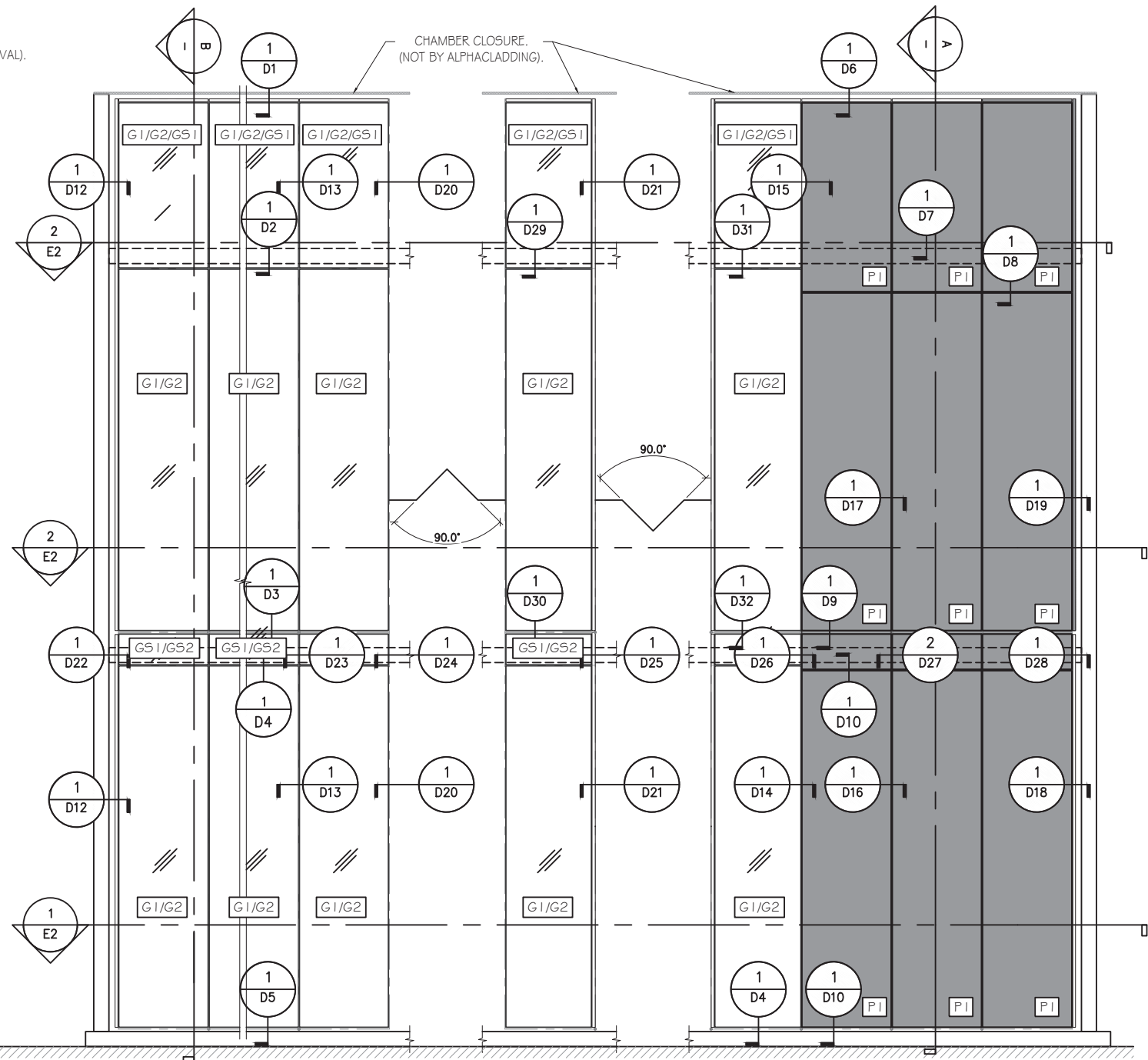
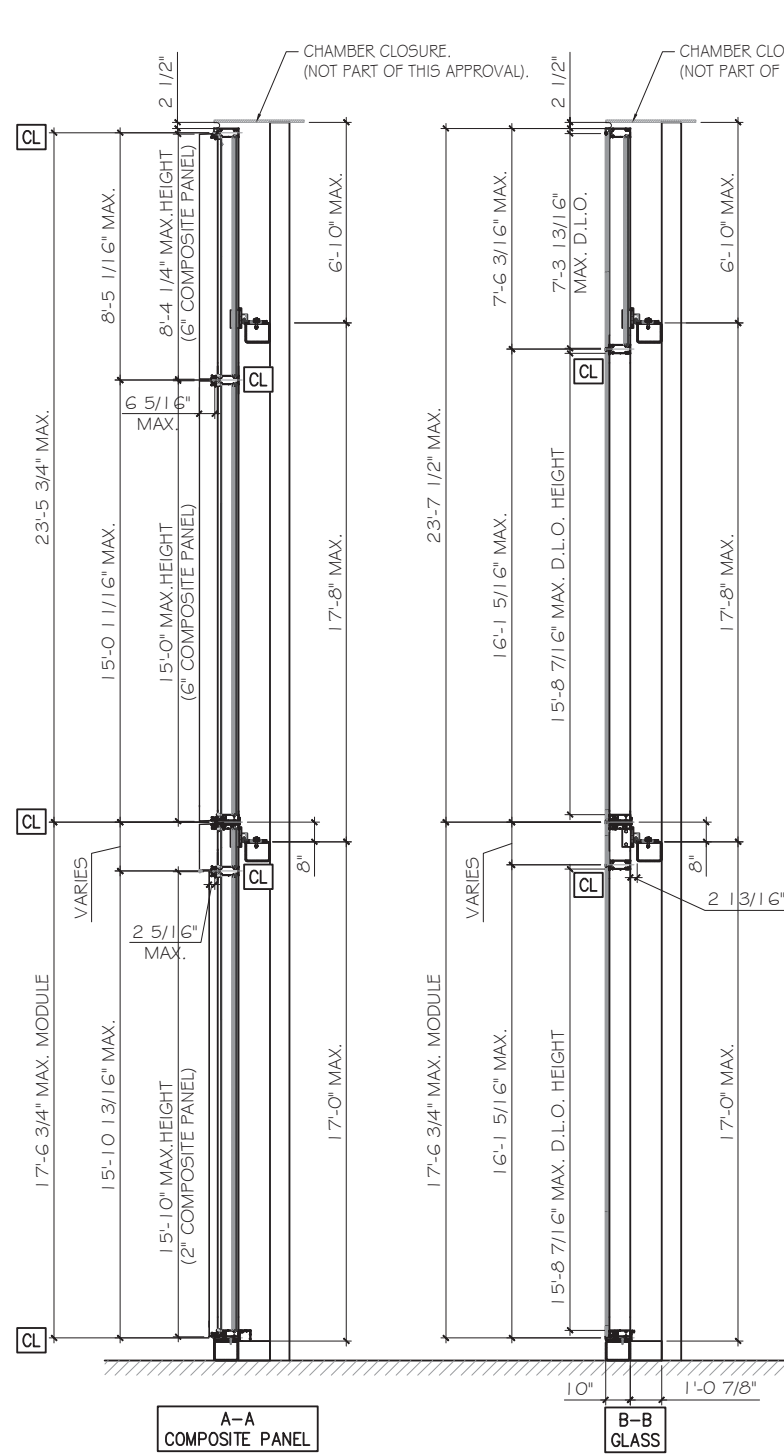
TECNOGLASS, LLC
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G1
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TYPICAL EXTERIOR ELEVATIONS

MAX. ALLOWABLE DESIGN LOAD

+75 PSF
-110 PSF

NOTE: FOR SIZES SHOWN OR SMALLER AS PERMITTED BY FBC.

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E1

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mcy@mcyengineering.com



YOUNG WANG & C.
FLORIDA REGISTRATION
P.E. #55983
C.A.N. 2867
No. 55983
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
December 12th, 2025

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TYPICAL ANCHOR TYPE:

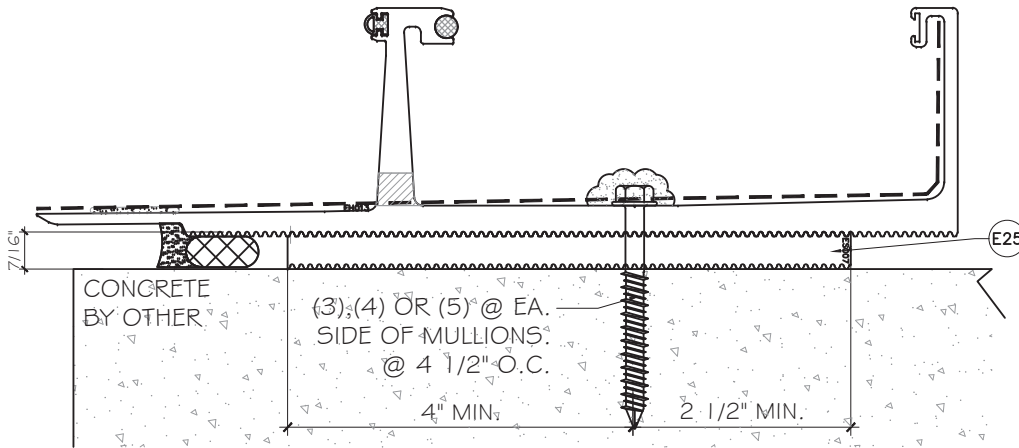
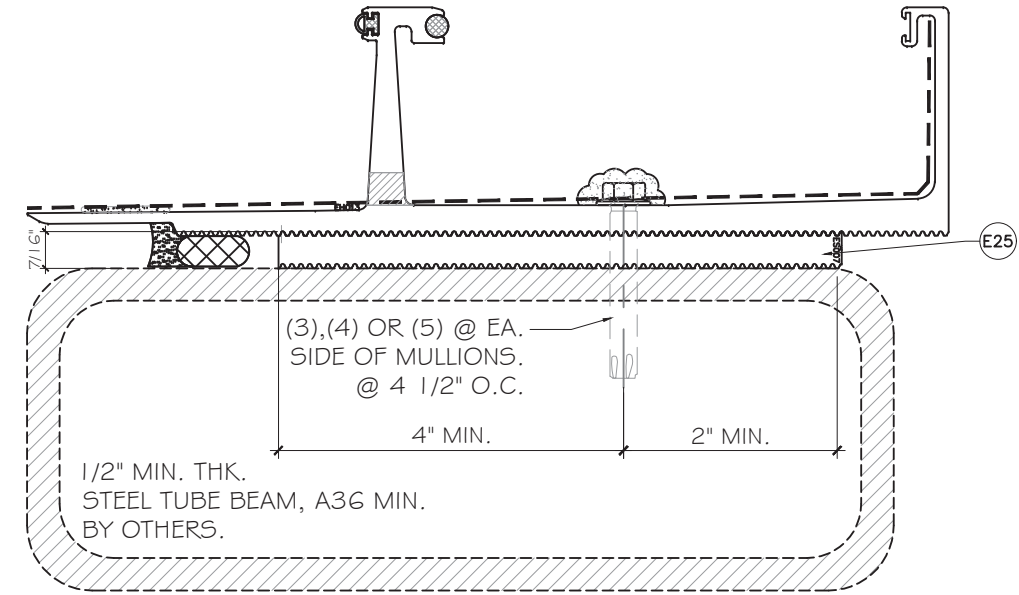
ANCHOR TYPE A: 5/16" DIA. DEWALT ULTRACON
WITH 2" EMBED INTO 4KSI CONCRETE
3 1/2" EDGE DISTANCE, 4 1/2" O.C.

ANCHOR TYPE B: 3/8" DIA. DEWALT SCREW BOLT +
WITH 3 1/4" EMBED INTO 4KSI CONCRETE
3 1/2" EDGE DISTANCE, 4 1/2" O.C.

ANCHOR TYPE C: 5/16"-24 DEWALT DRILFLEX SCREW
INTO 3/8" MIN. THK. STEEL (A36 MIN.)
2" MIN. EDGE DISTANCE, 4 1/2" O.C.

METAL STRUCTURES BY OTHERS MUST BE PROPERLY
SECURED TO SUPPORT LOADS IMPOSED BY GLAZING
SYSTEM AND TRANSFER THEM TO THE BUILDING
STRUCTURES.

SILL ANCHOR CAPACITY CHART, P _{dall} (PSF) (FOR SIZE SHOWN ON ELEVATION)		
ANCHOR TYPE	(+) PSF	(-) PSF
A3	57.4	72.7
A4	75	96.9
A5	75	110
B3	75	110
C3	75	110



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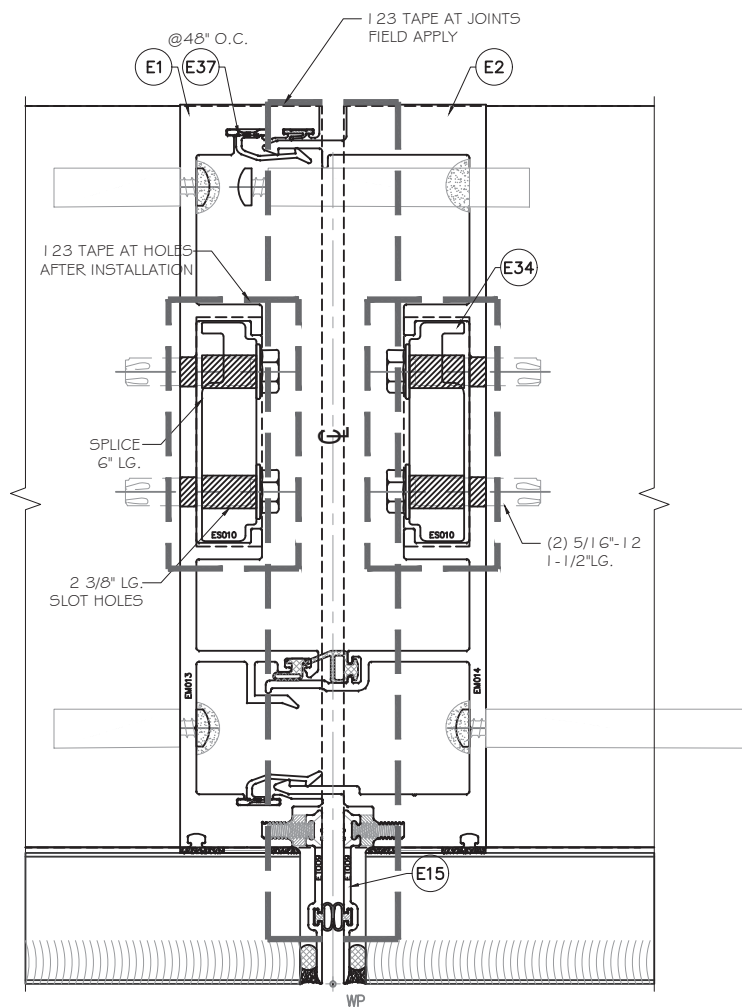
FLORIDA PROFESSIONAL ENGINEER
JAMES W. KING, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28879
December 12th, 2025

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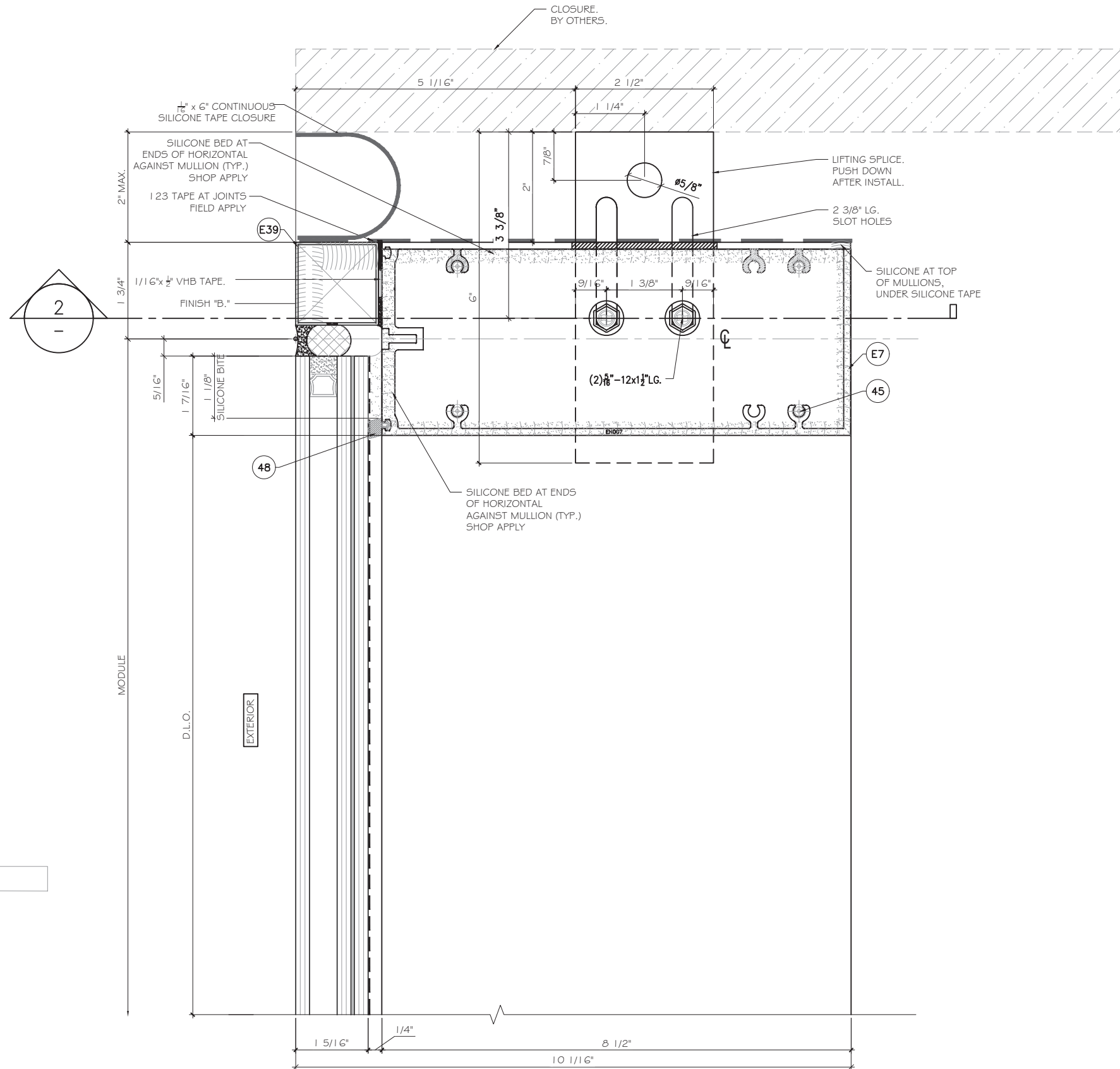
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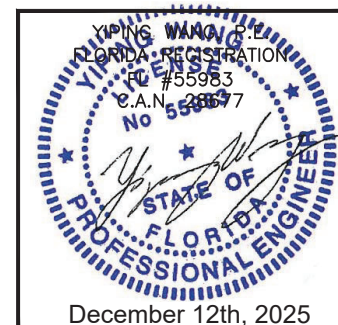


2
-
DETAIL
SCALE 1'-0"=1'-0"



1
D1
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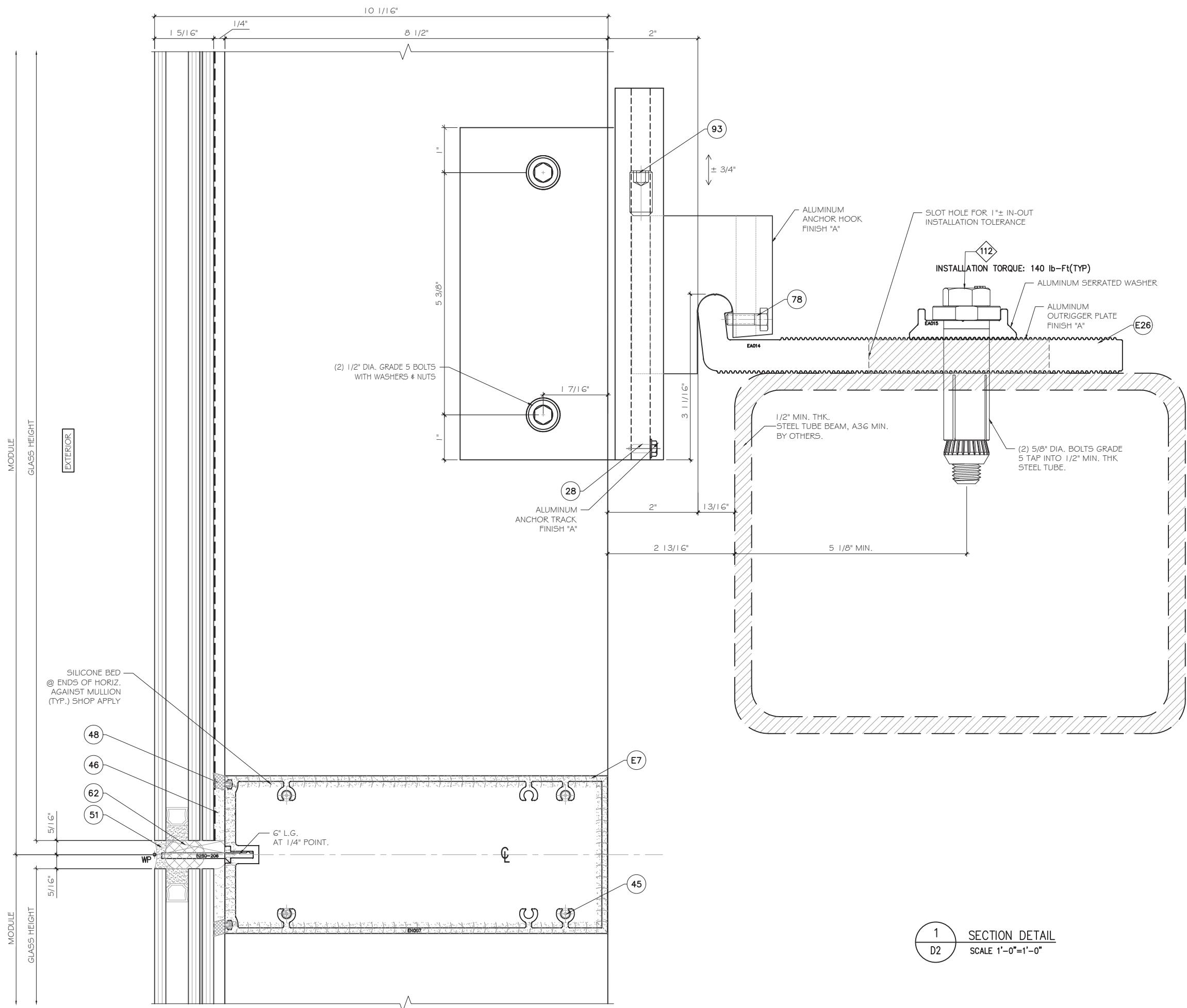
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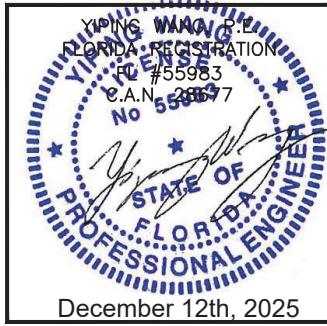
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1
D2 SECTION DETAIL
SCALE 1'-0"=1'-0"

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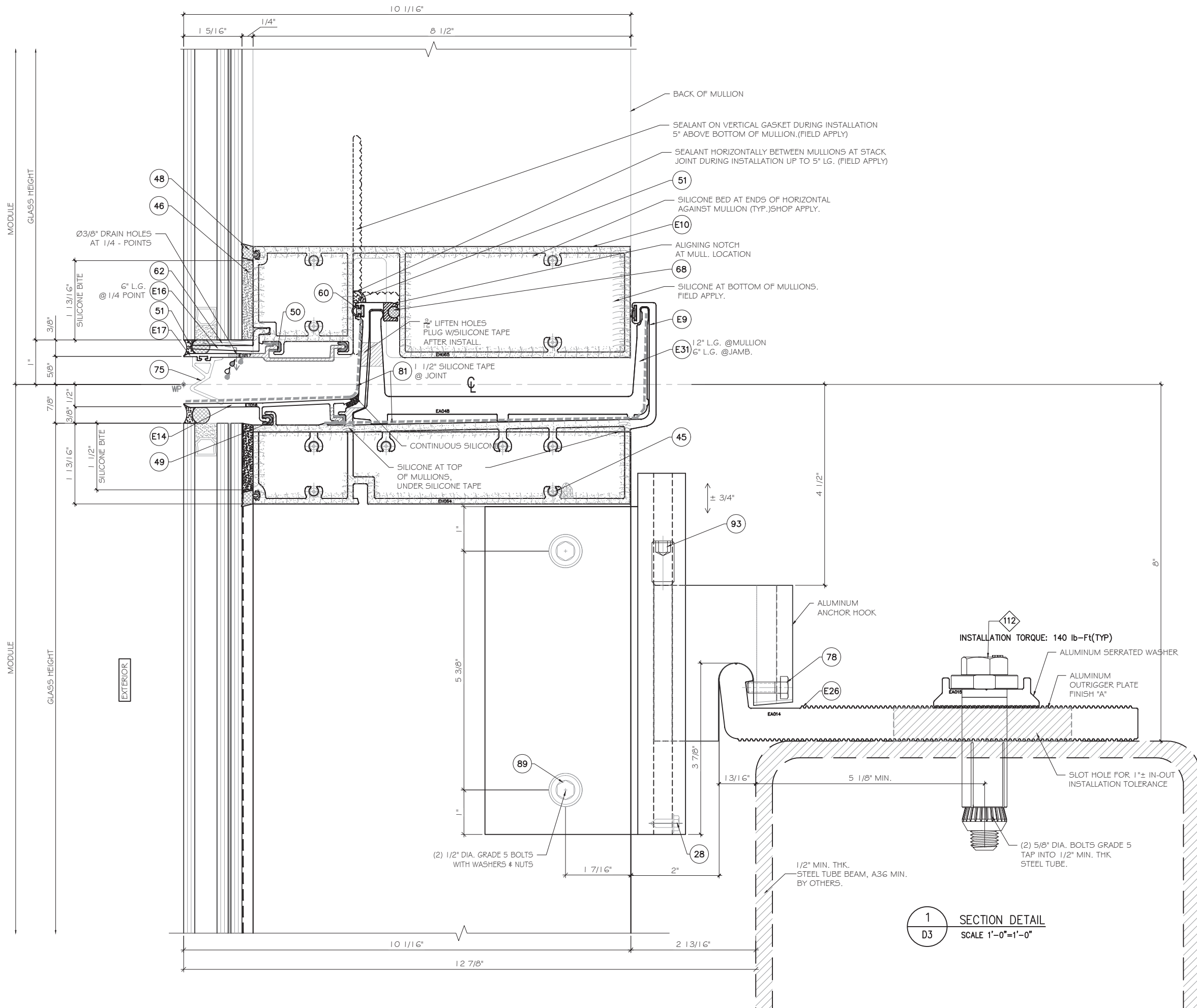
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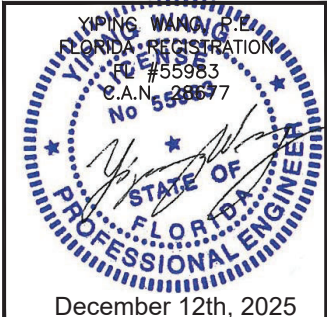
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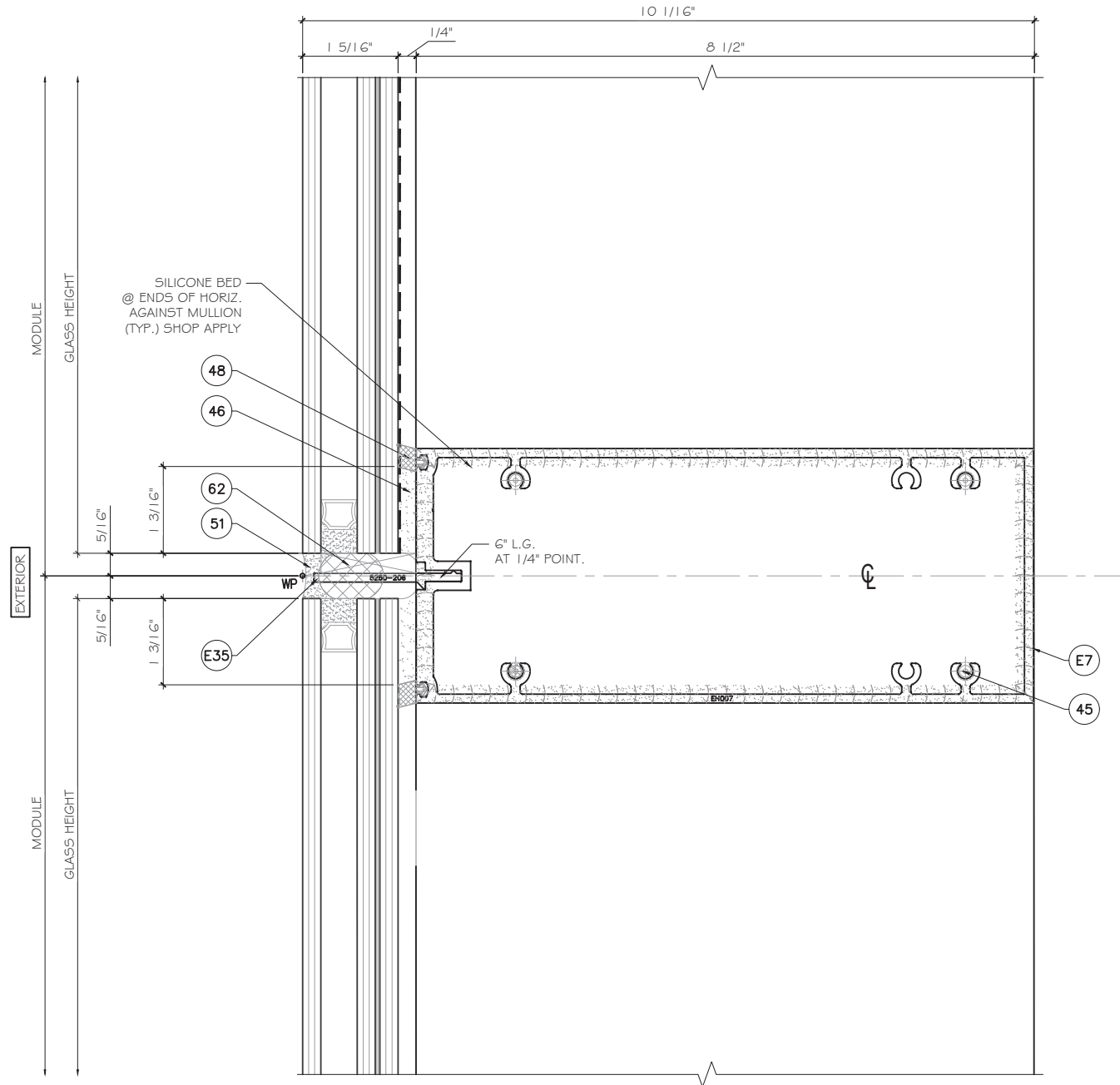


1 SECTION DETAIL
D3 SCALE 1'-0"=1'-0"

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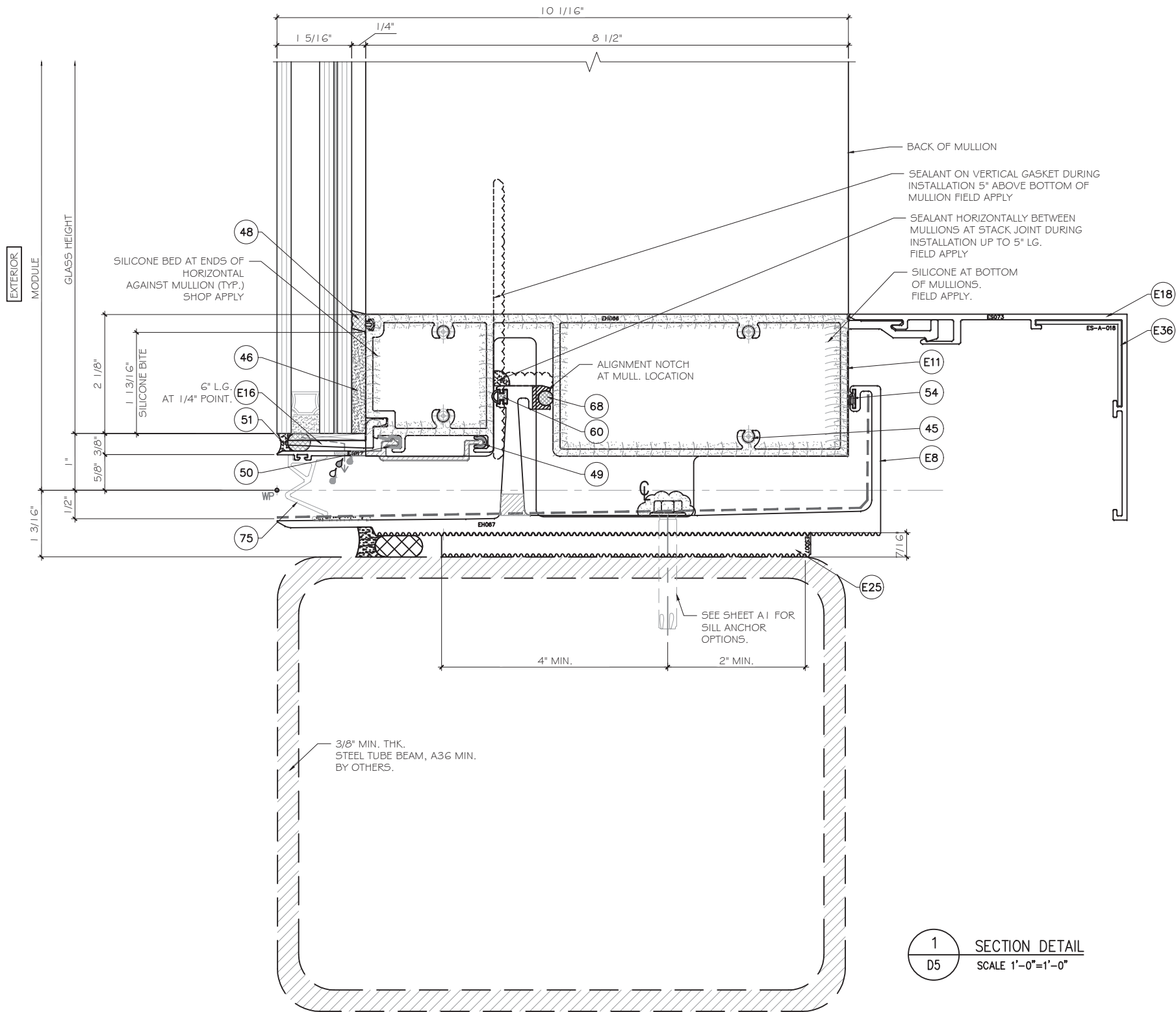
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Professional Engineer Seal for James W. King, No. 55987, State of Florida, dated December 12th, 2025.

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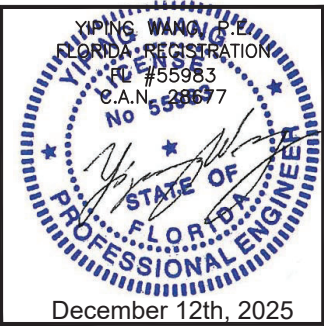
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1 SECTION DETAIL
D5 SCALE 1'-0"=1'-0"

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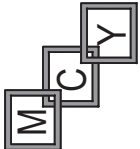
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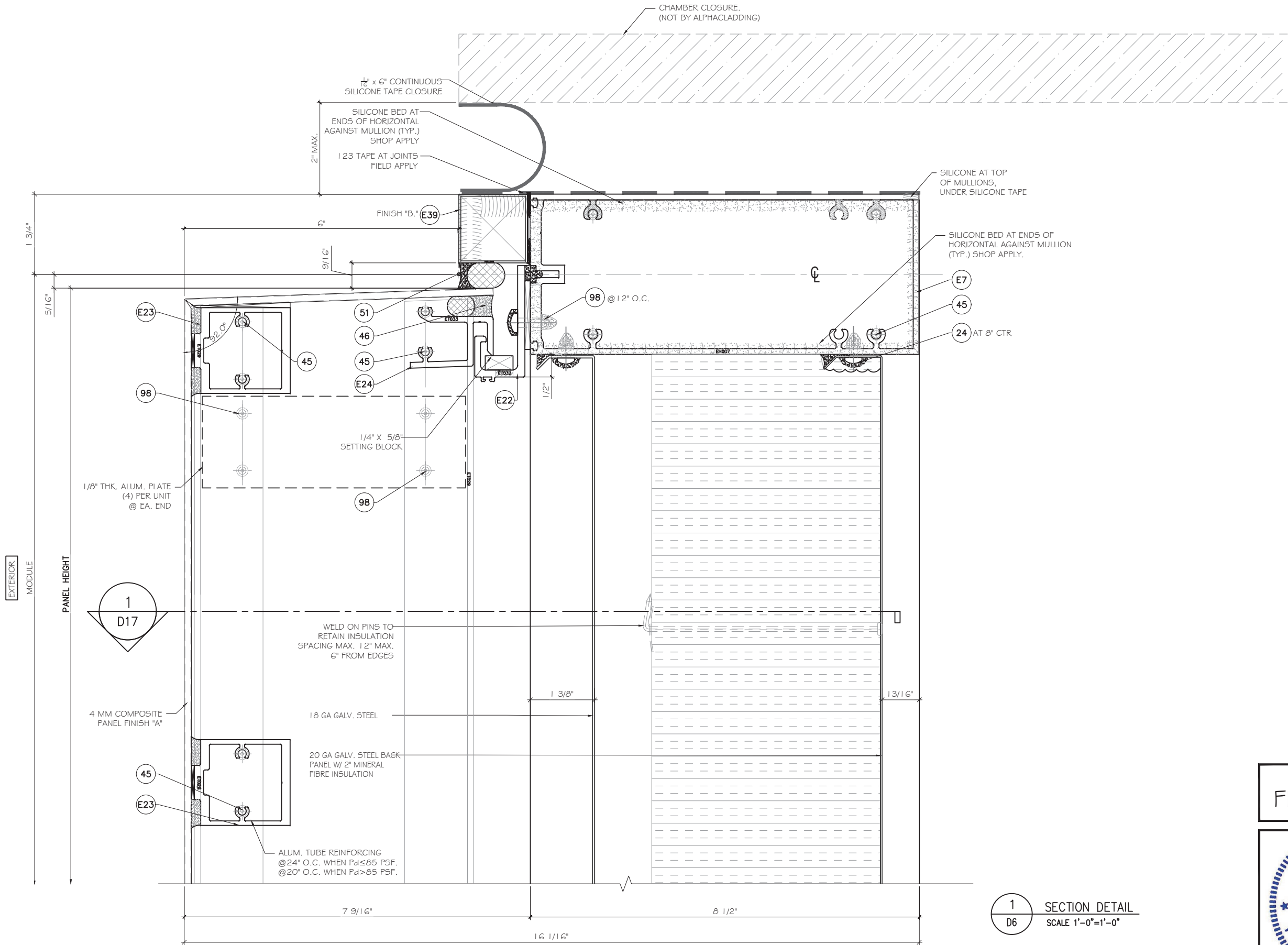
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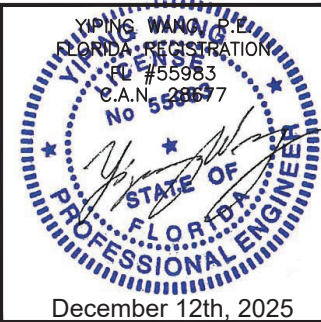


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1 SECTION DETAIL
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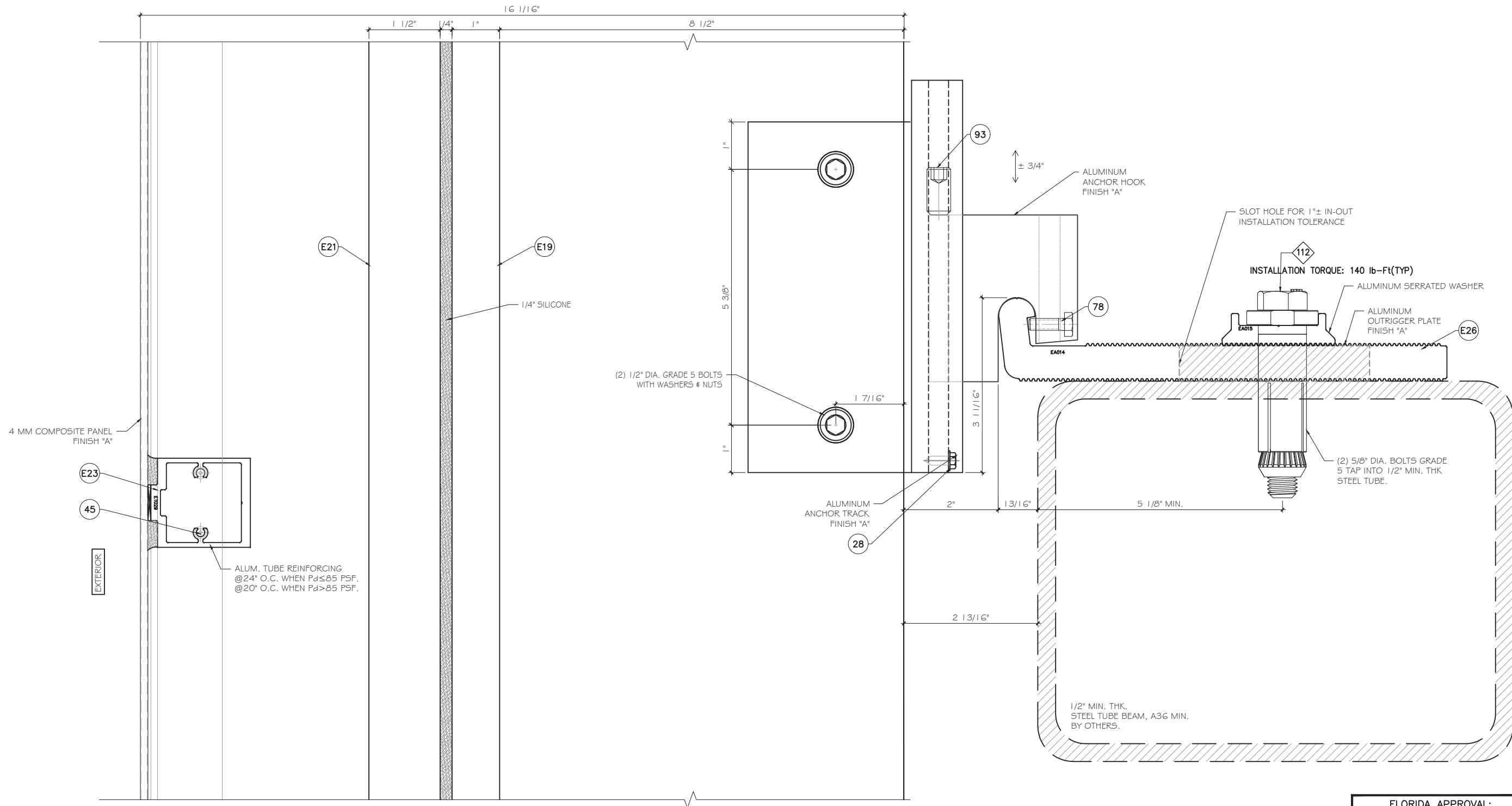
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FLORIDA PROFESSIONAL ENGINEER
JAMES W. JAMES
FL #55983
C.A.N. 28879
December 12th, 2025

1 SECTION DETAIL
D7 SCALE 1'-0"=1'-0"

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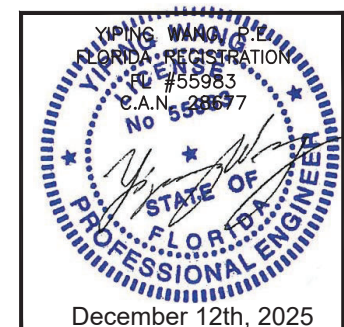
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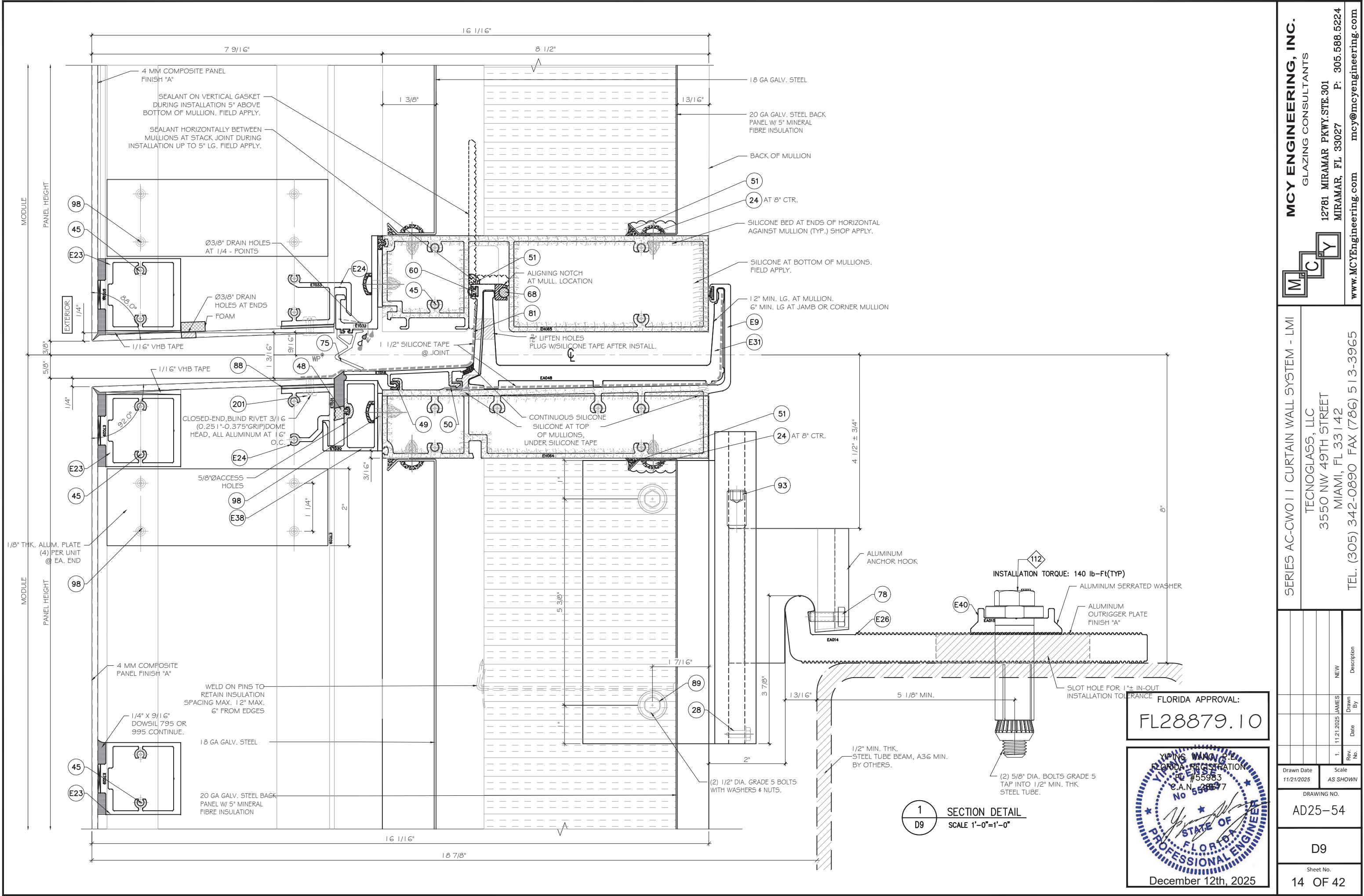
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FLORIDA PROFESSIONAL ENGINEER

NO 55983

DATE 11/21/2025

STATE OF FLORIDA

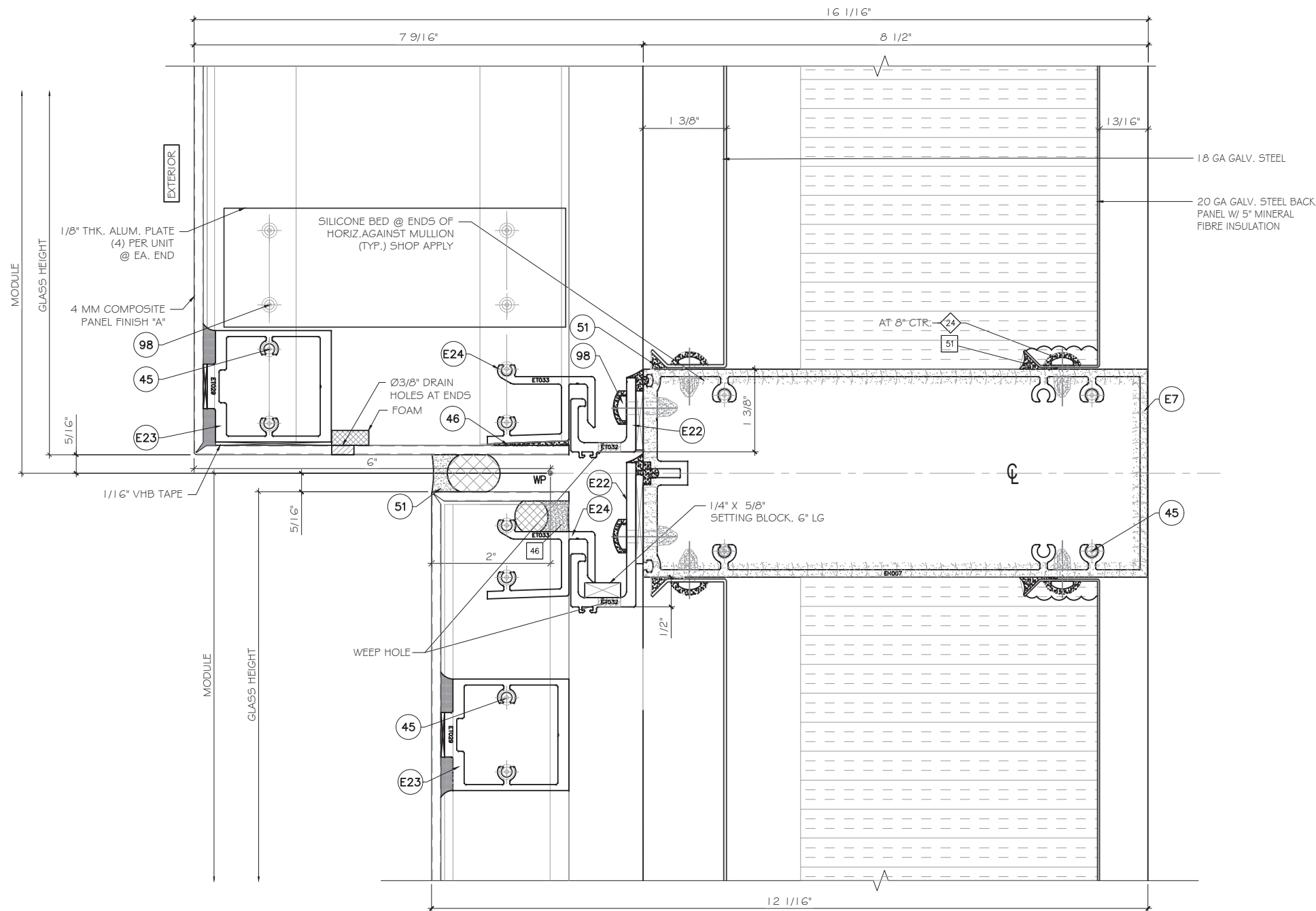
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D9

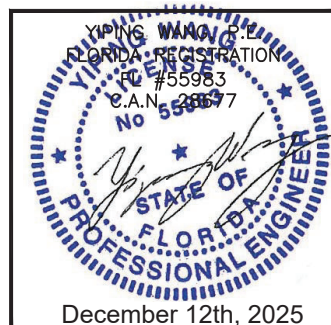
SECTION DETAIL

SCALE 1'-0"=1'-0"



1 SECTION DETAIL
D10 SCALE 1'-0"=1'-0"

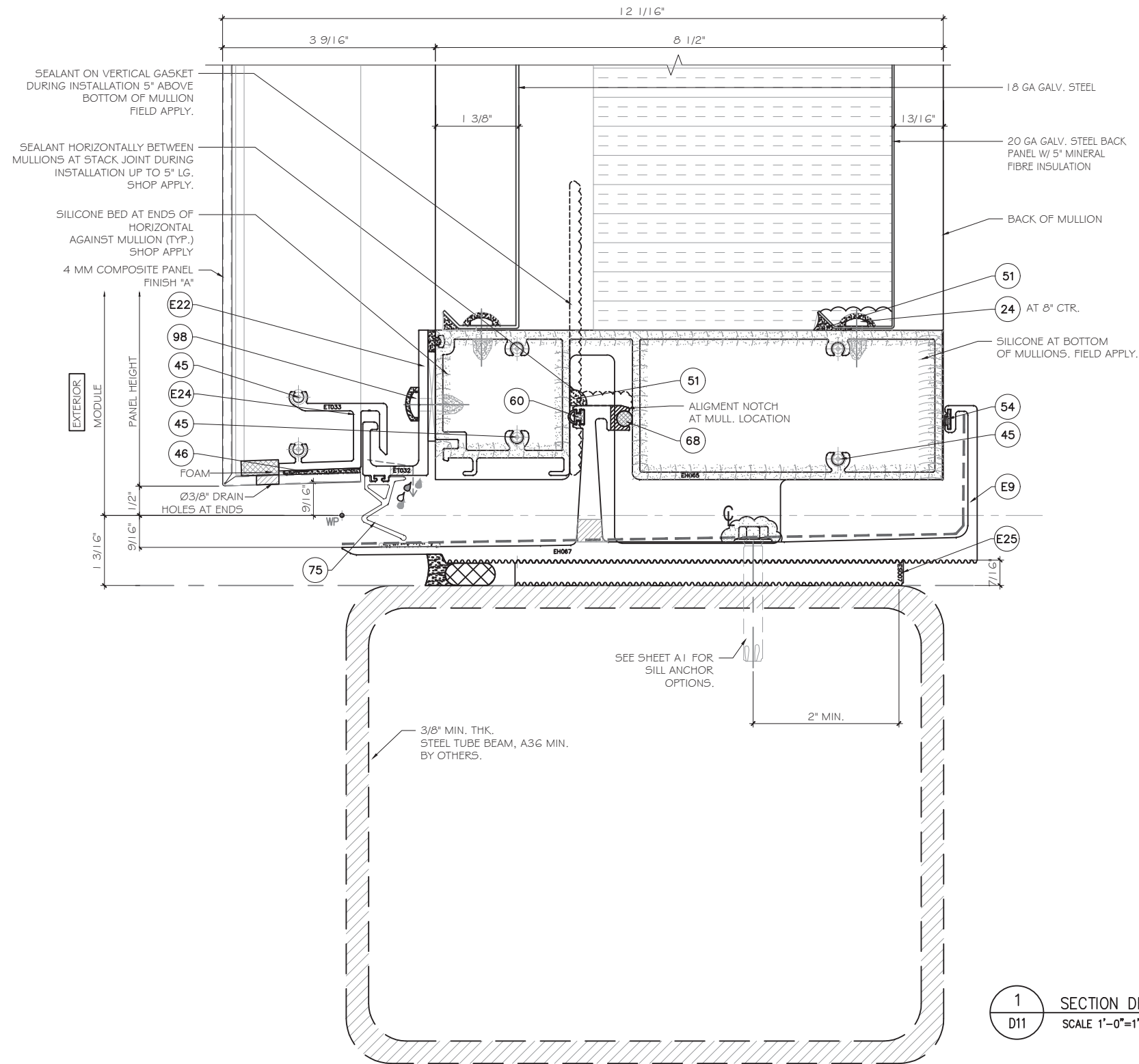
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1 SECTION DETAIL
D11 SCALE 1'-0"=1'-0"

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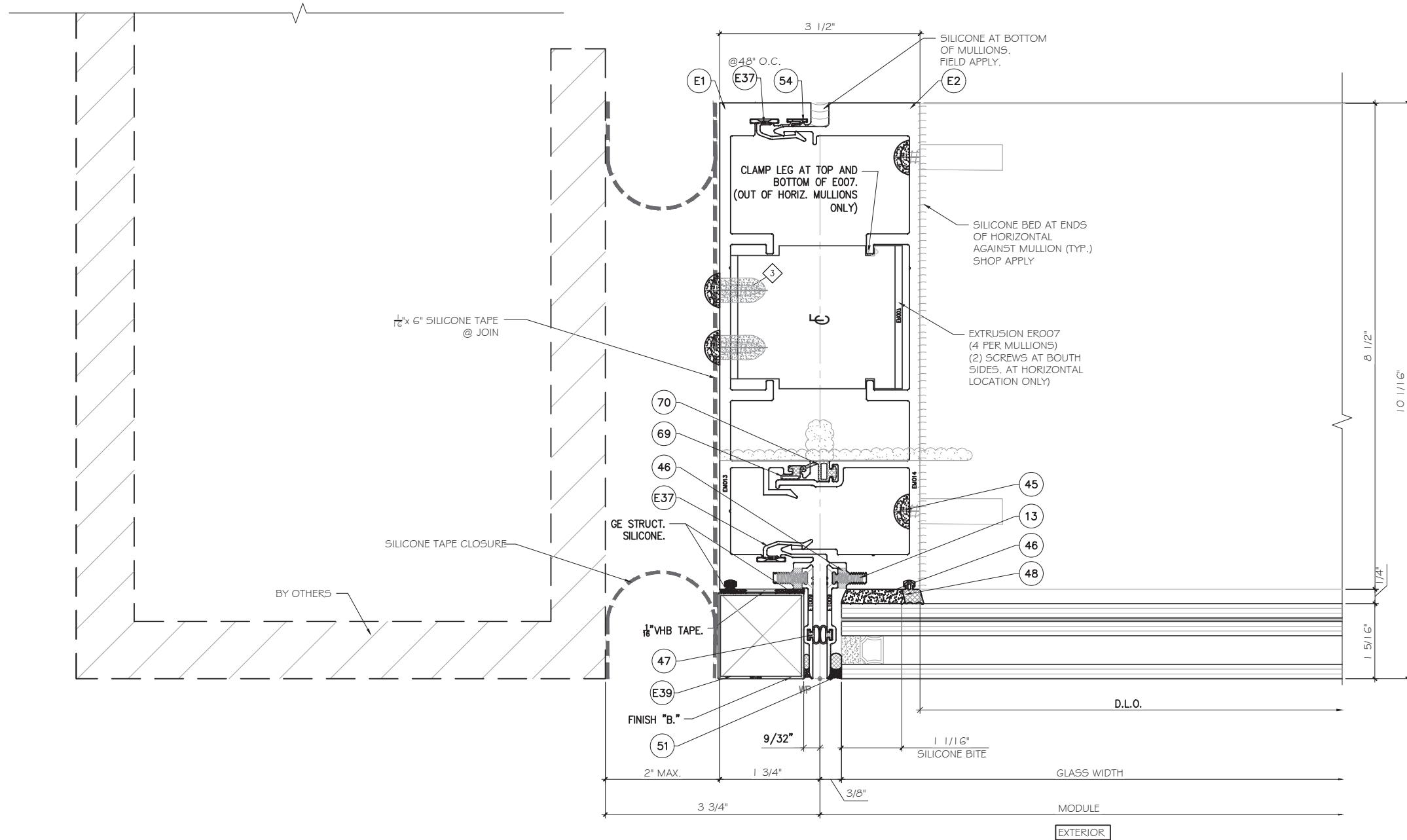
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Scale: AS SHOWN

DRAWING NO. AD25-54

D11

Sheet No. 16 OF 42



1 PLAN DETAIL
D12 SCALE 1'-0"=1'-0"

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FL28879.10

YOUNG KWAN P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28879
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
December 12th, 2025

Rev. No.	Date	Drawn By	Description
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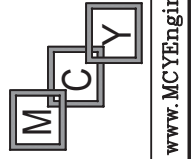
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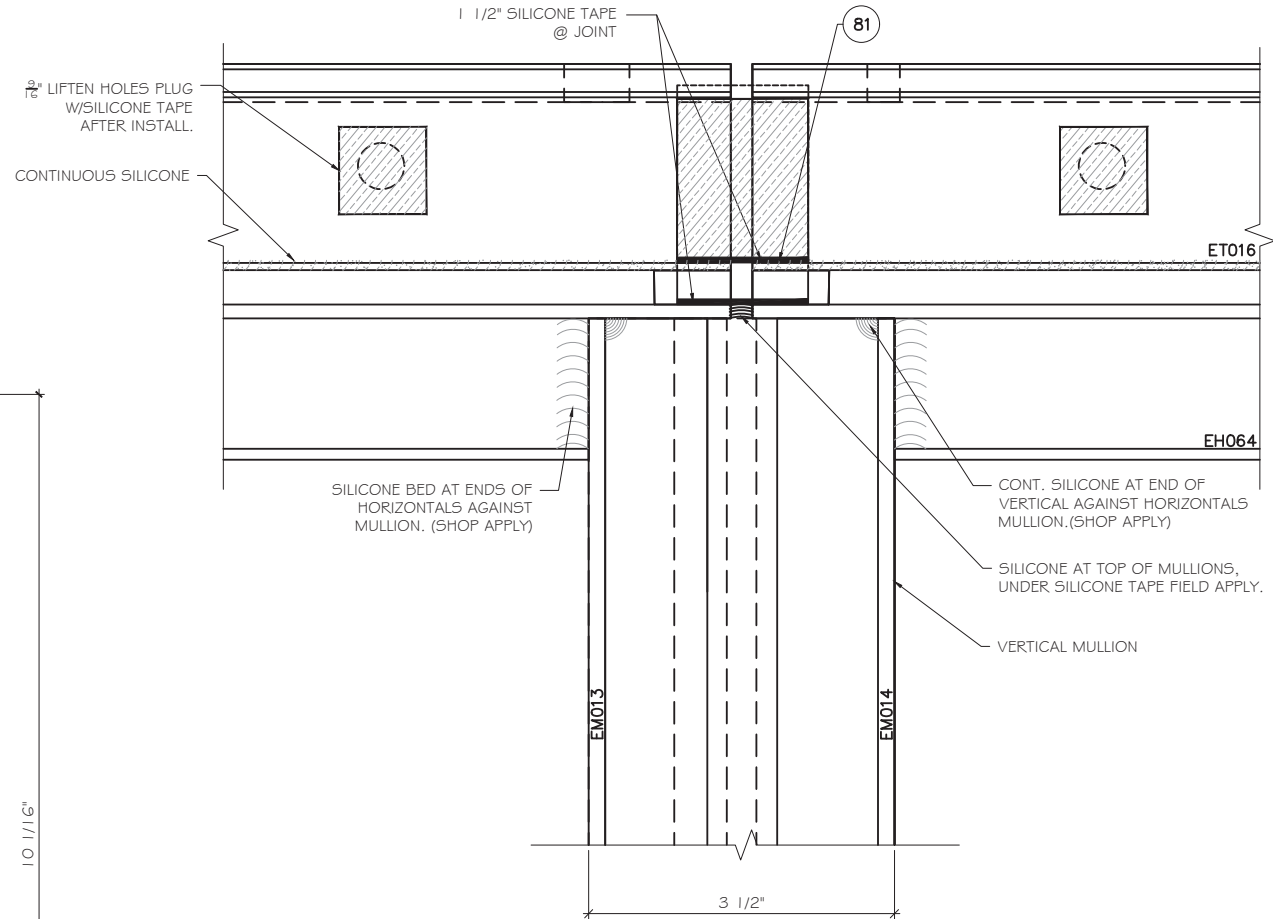
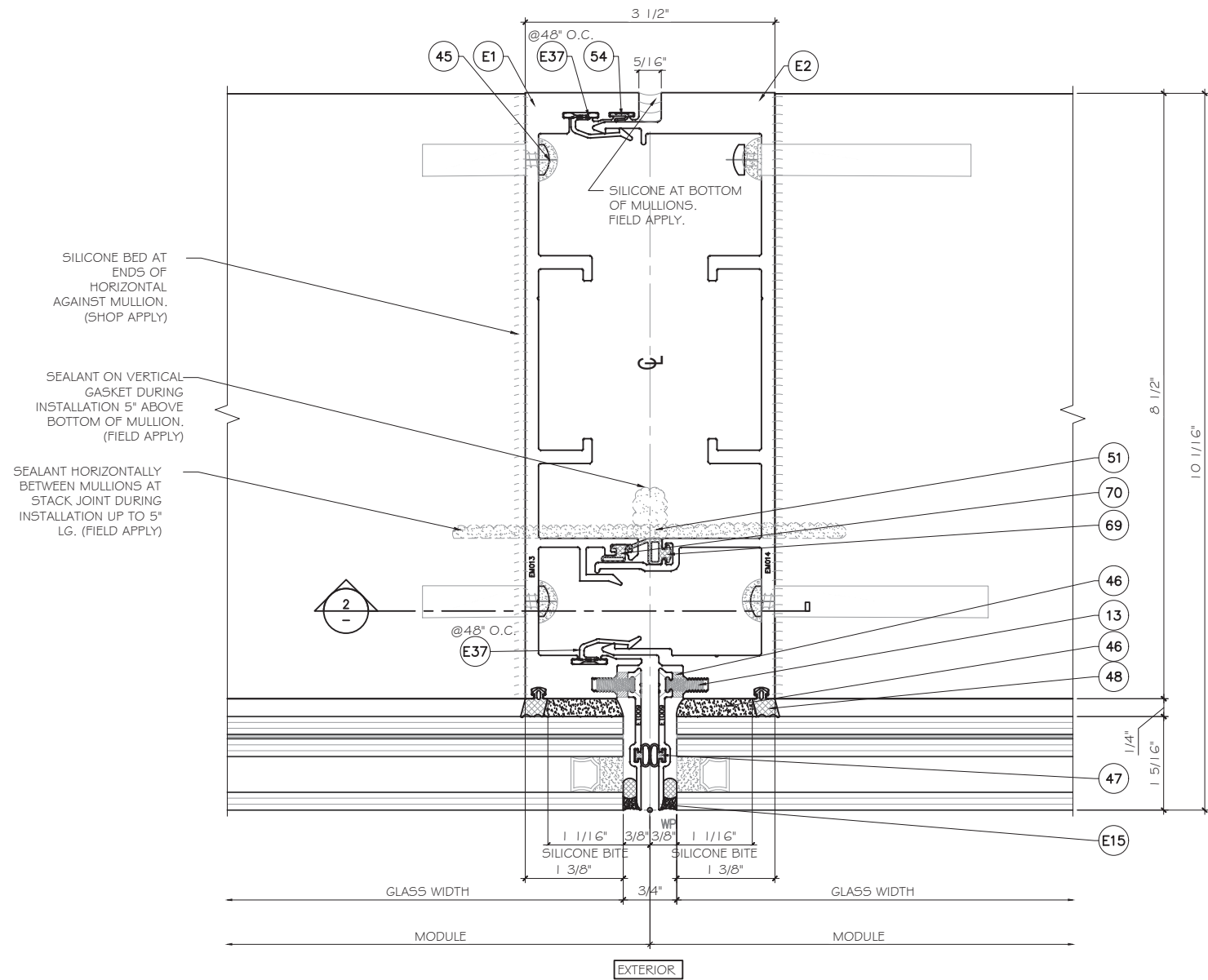
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Sheet No. 17 OF 42

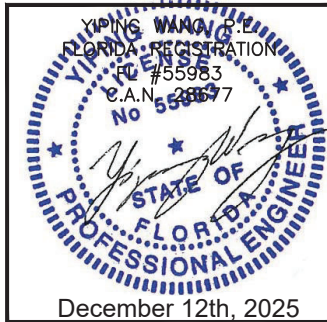
SERIES AC-CWO I CURTAIN WALL SYSTEM - LMI
TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
TEL. (305) 342-0890 FAX (786) 513-3965



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DRAWING NO. AD25-54			
D13			
Sheet No. 18 OF 42			



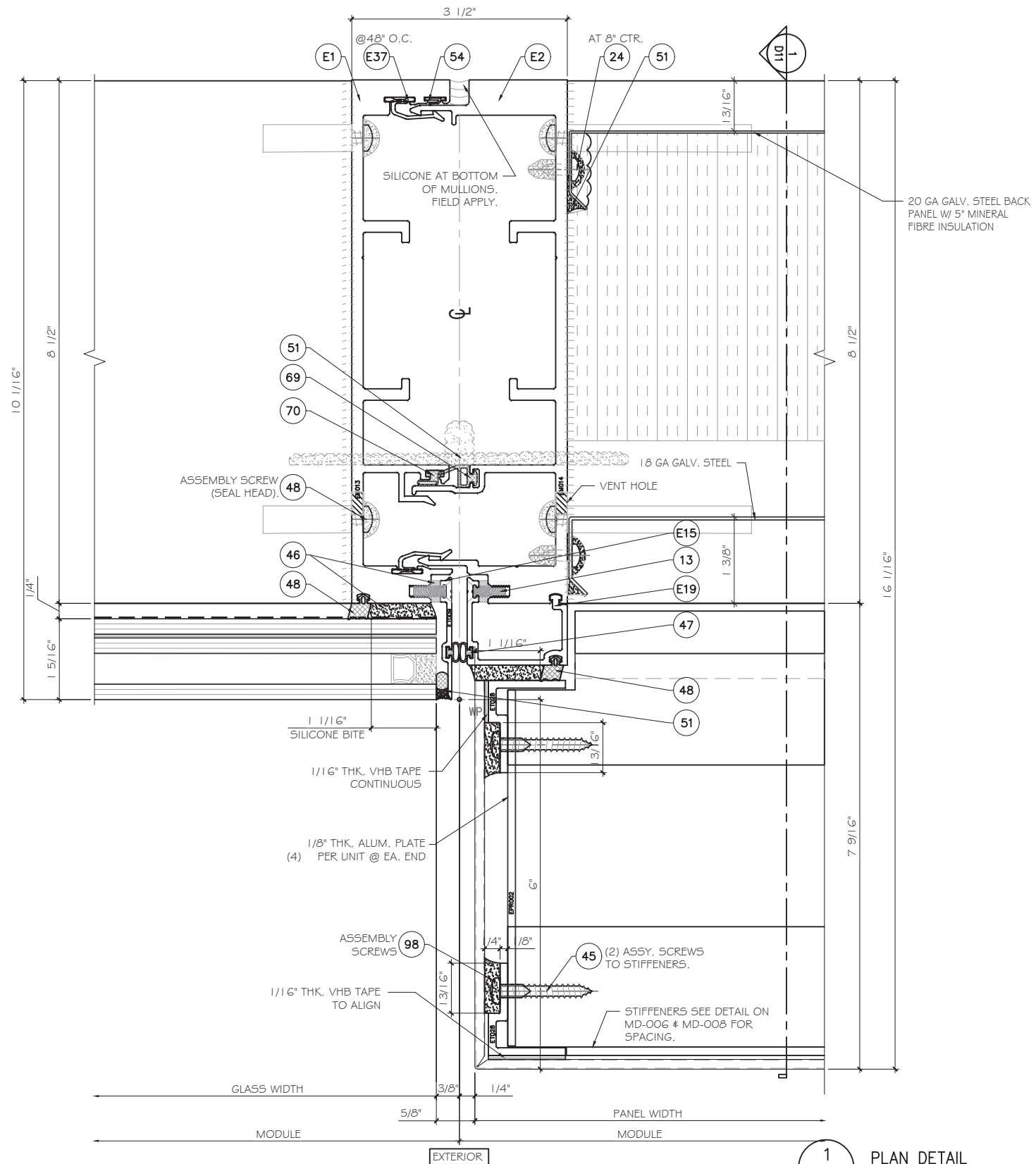
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FLORIDA REGISTRATION
FL #55983
C.A.N. #667
No 55983
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
December 12th, 2025

Drawn Date 11/21/2025	Scale AS SHOWN
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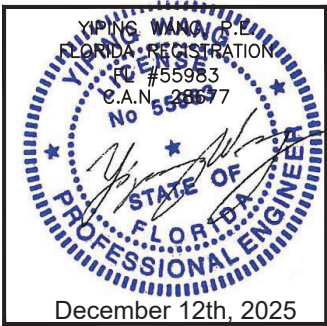
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1
D15 PLAN DETAIL
SCALE 1'-0"=1'-0"

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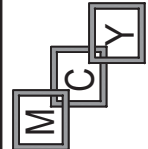
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11/21/2025

Scale
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DRAWING NO.
AD25-54

D15

Sheet No.
20 OF 42



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 C.A.N. 28677
 No 55983
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 FLORIDA
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SERIES AC-CWO | | CURTAIN WALL SYSTEM - LMI

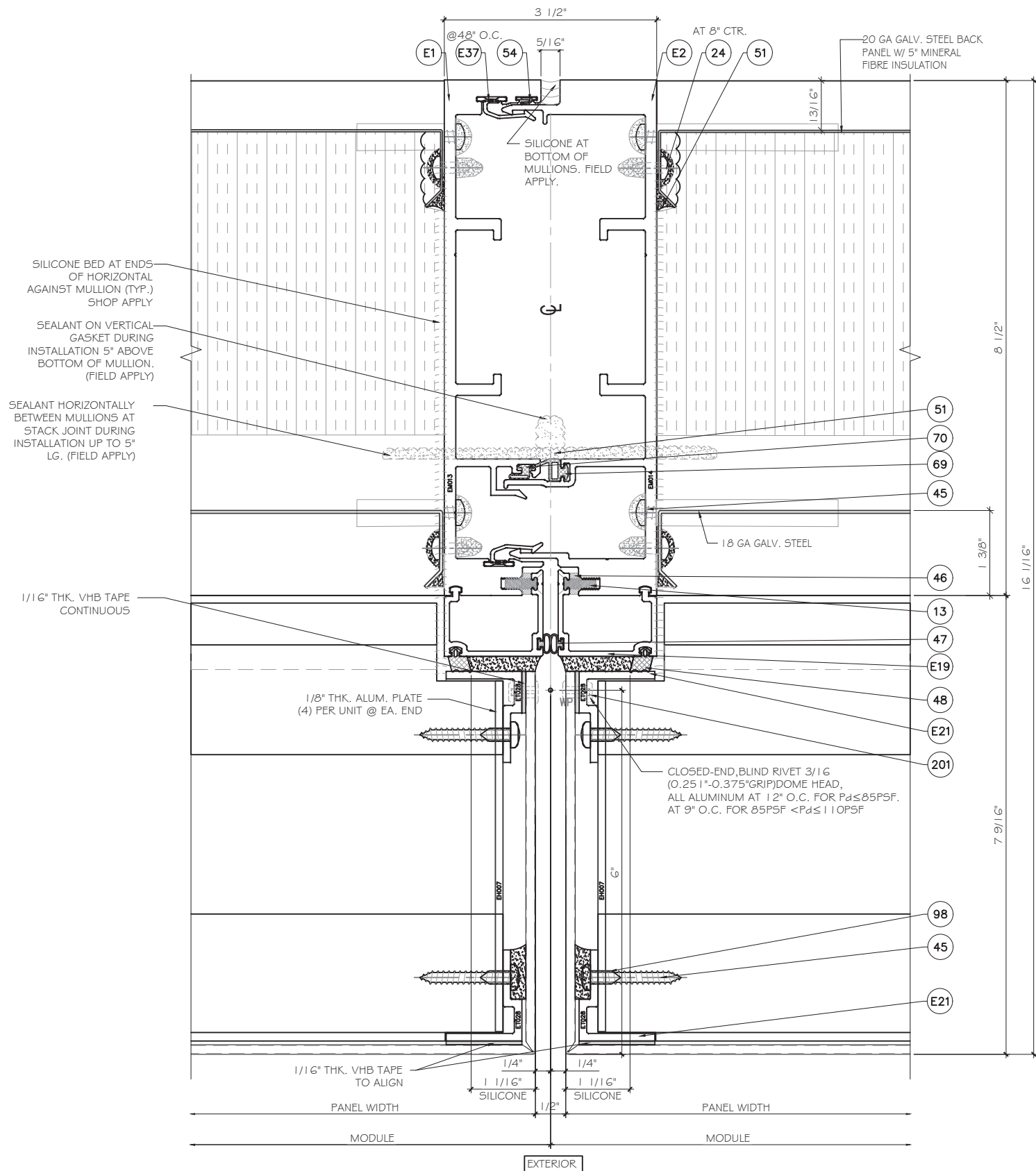
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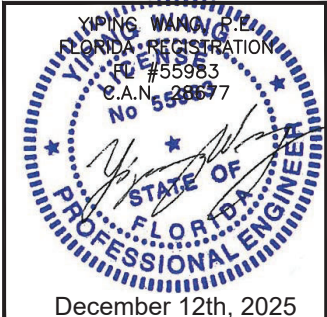
12781 MIRAMAR PKWY. STE. 301
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1 PLAN DETAIL
D17 SCALE 1'-0"=1'-0"

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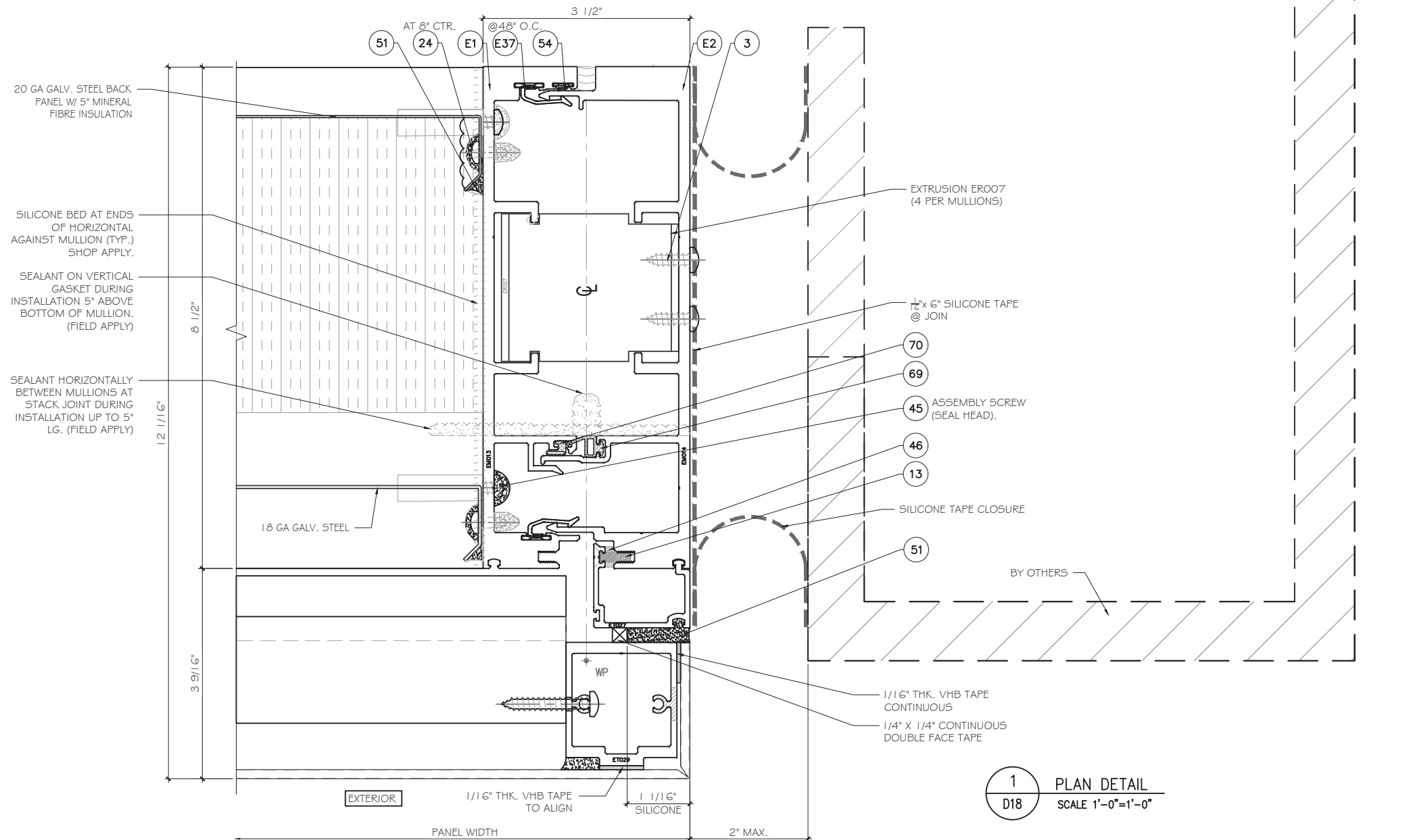
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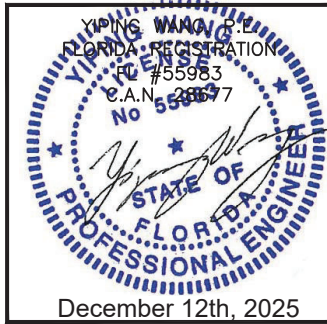
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22 OF 42



1 PLAN DETAIL
D18 SCALE 1'-0"=1'-0"

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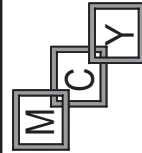
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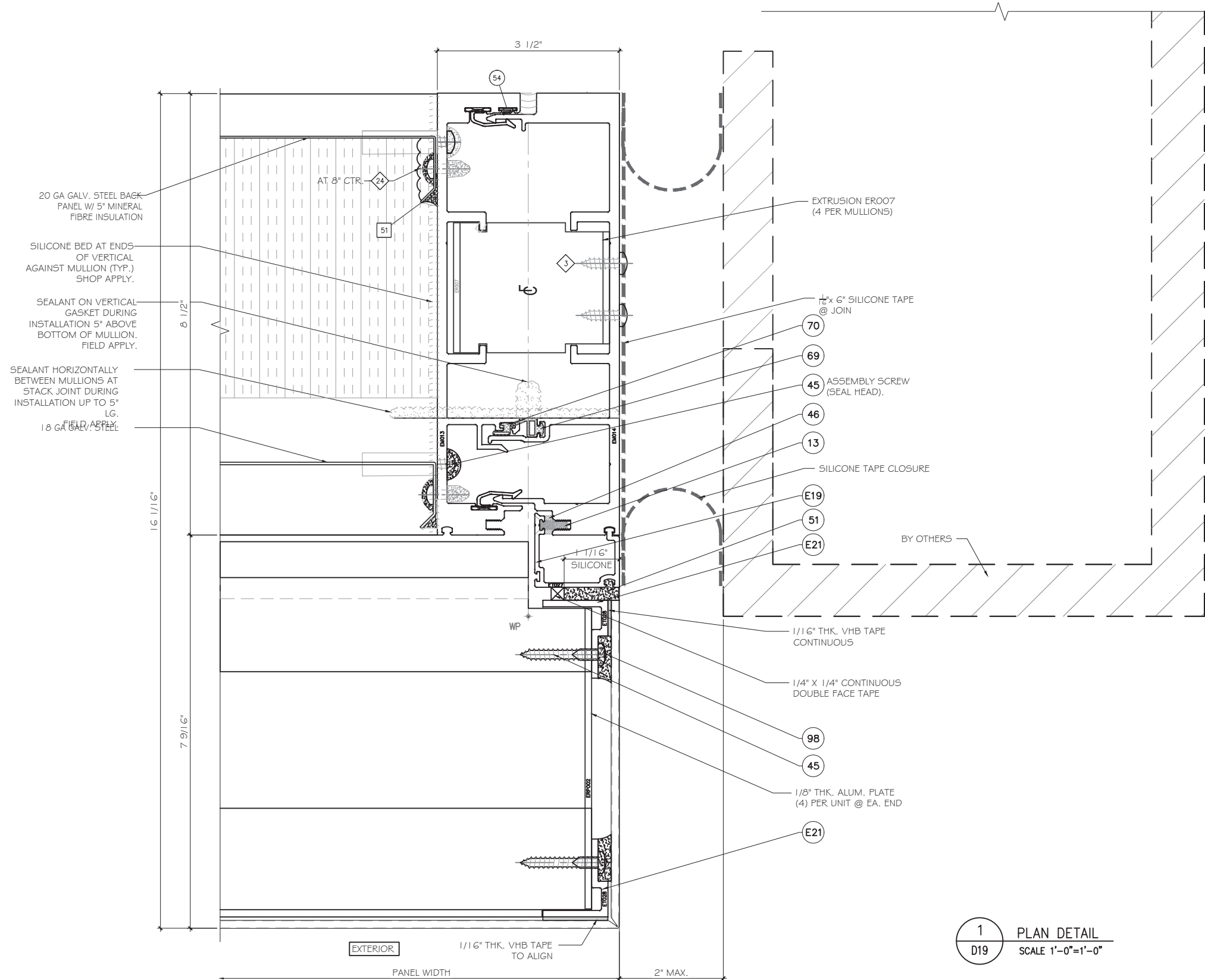
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Sheet No. 23 OF 42

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TECNOGLASS, LLC
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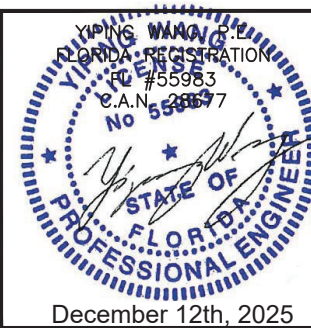


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1
D19
PLAN DETAIL
SCALE 1'-0"=1'-0"

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Rev. No.	Date	Drawn By	Description
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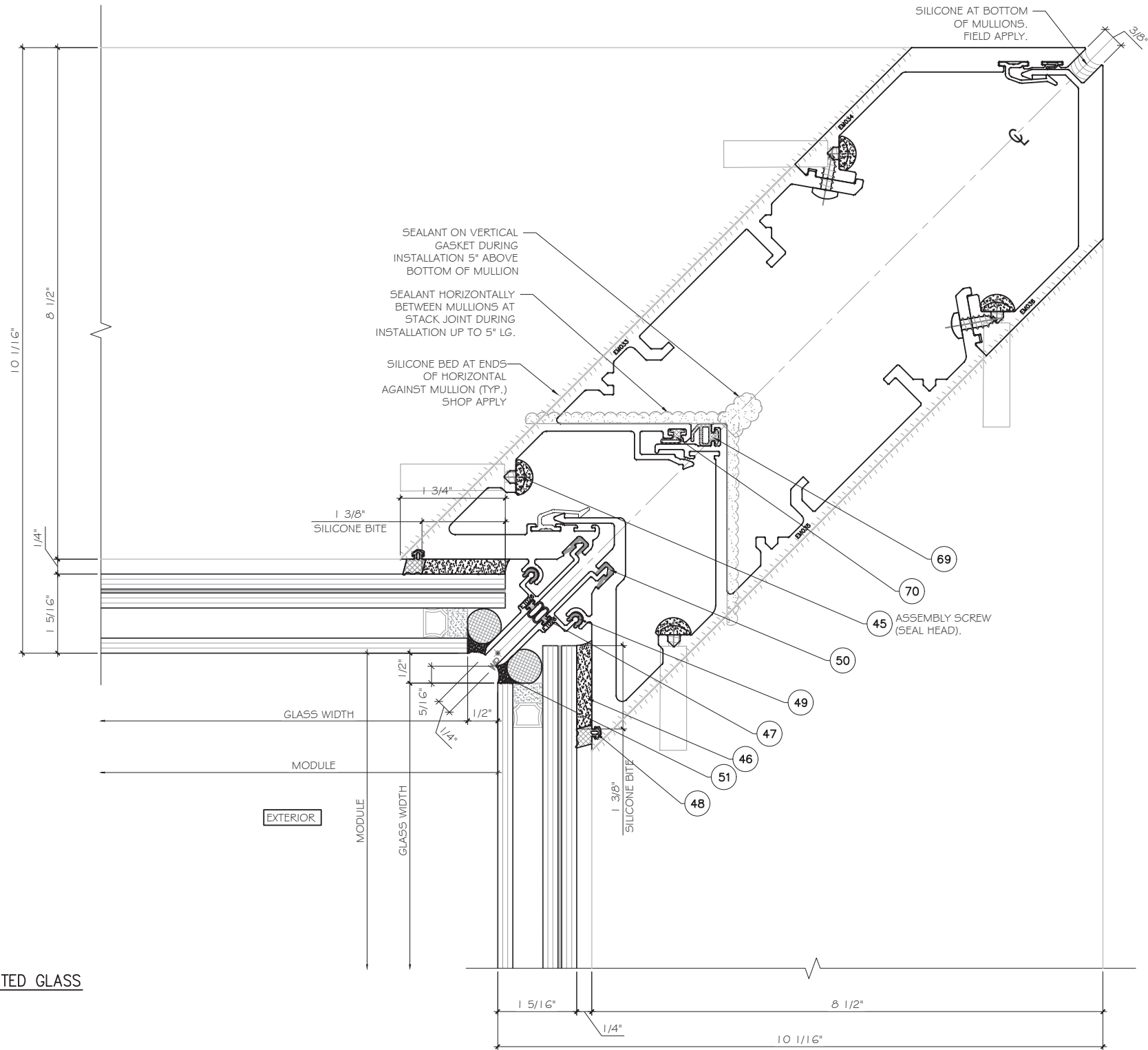
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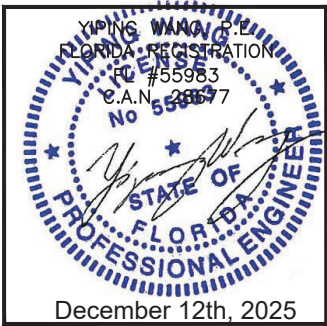
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1
D20

PLAN DETAIL
INSULATED LAMINATED GLASS
SCALE 1'-0"=1'-0"



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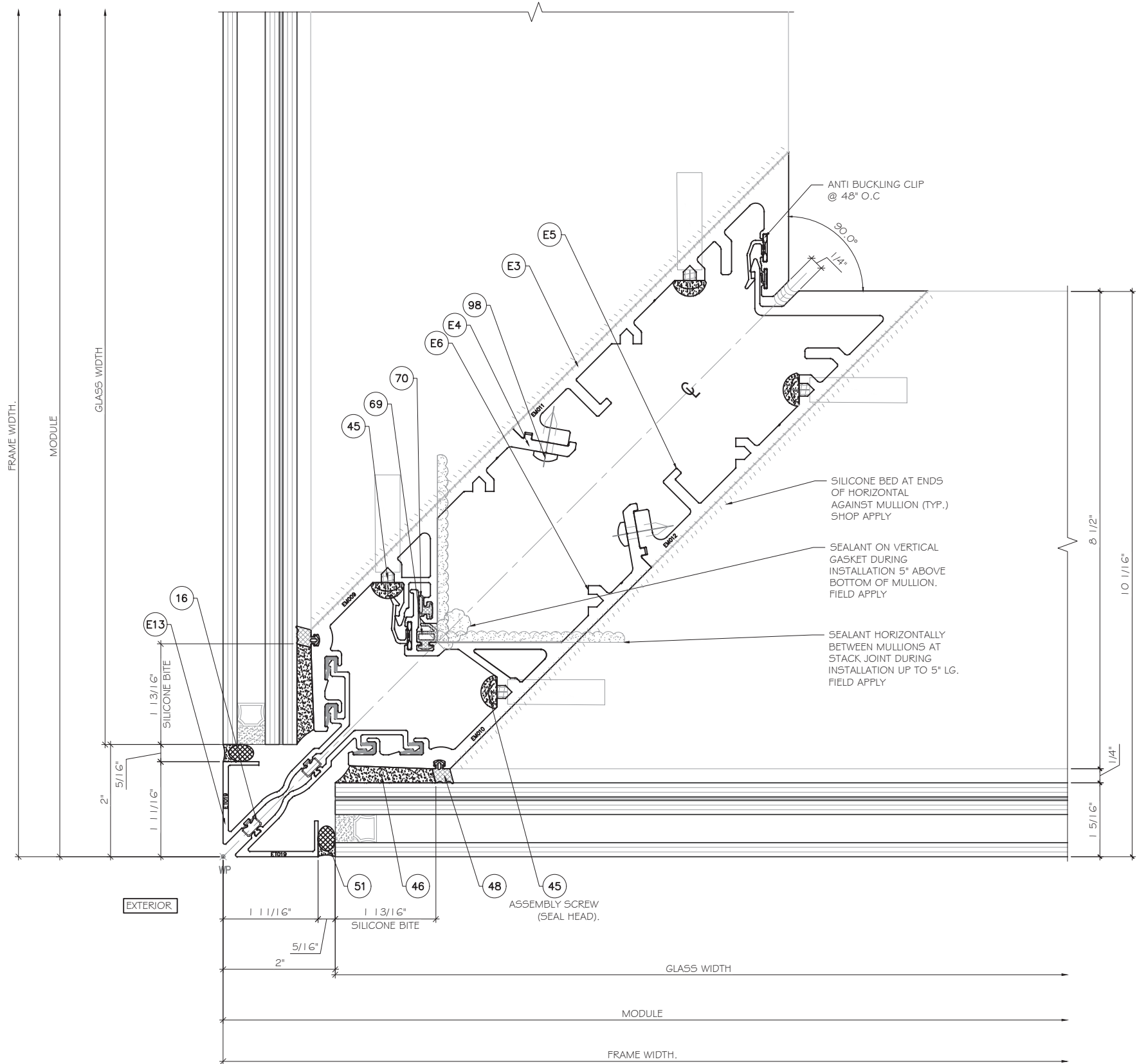
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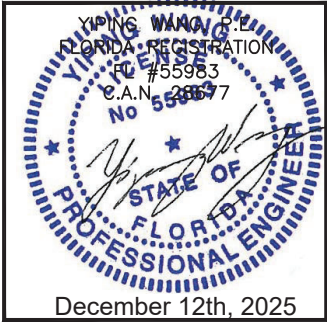
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1
D21

PLAN DETAIL
INSULATED LAMINATED GLASS
SCALE 1'-0"=1'-0"

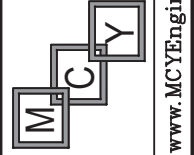
FLORIDA APPROVAL:
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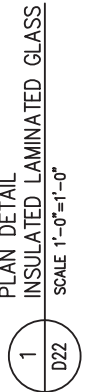
Drawn Date 11/21/2025		Scale AS SHOWN	
D25-54		D21	
26		OF 42	

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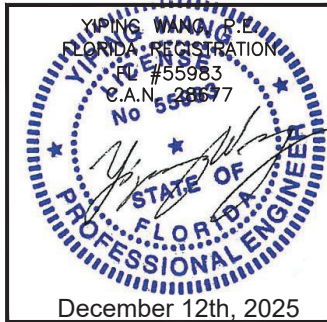
SERIES AC-CWO | CURTAIN WALL SYSTEM - LMI

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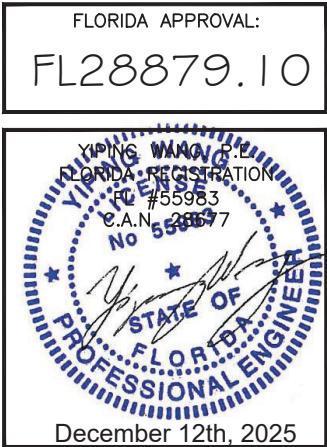
12781 MIRAMAR PKWY.STE.301
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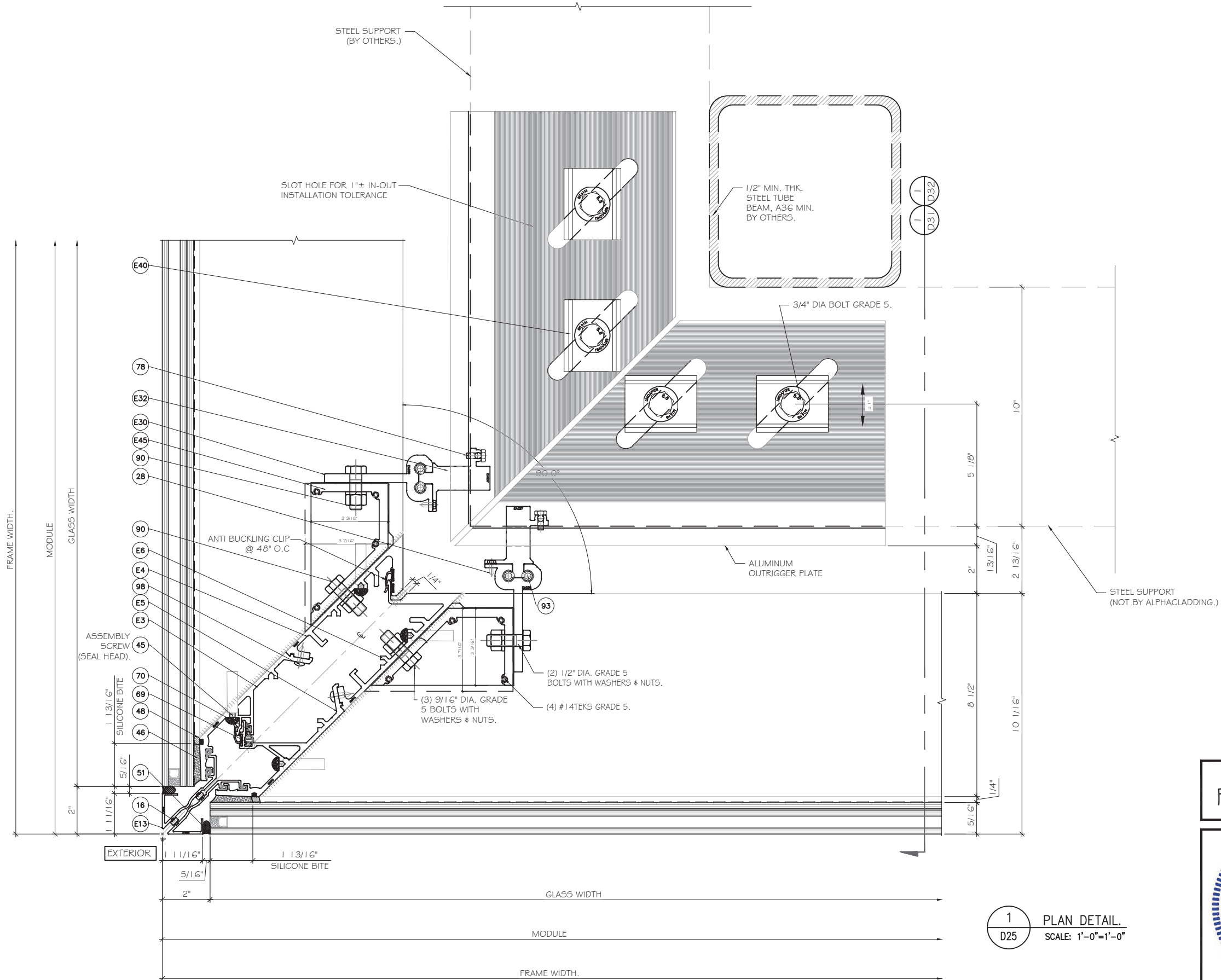
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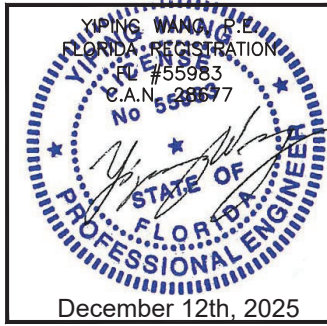
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1 PLAN DETAIL.
D25 SCALE: 1'-0"=1'-0"

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Rev. No.	Date	Drawn By	Description
1.	11/21/2025	JAMES	NEW

Drawing No.	Scale
AD25-54	AS SHOWN

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30 OF 42

D25



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FLORIDA REGISTRATION
FL #55983
C.A.N. 28577
No 55983
YIPING WANG
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
December 12th, 2025

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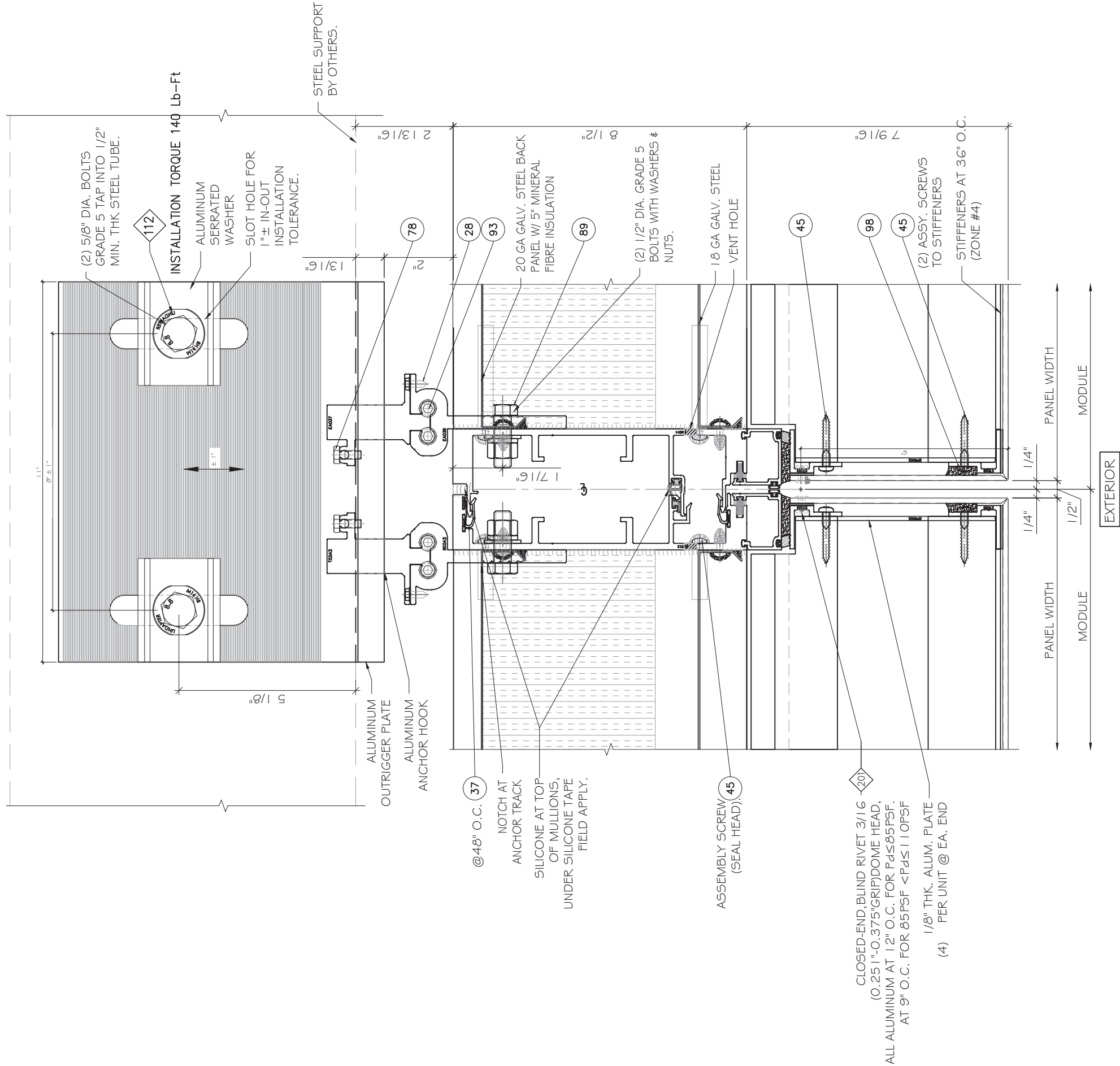
SERIES AC-CWO | CURTAIN WALL SYSTEM - LMI

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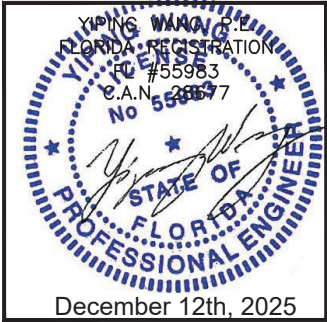
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2 PLAN DETAIL.
D27 SCALE: 1'-0"=1'-0"



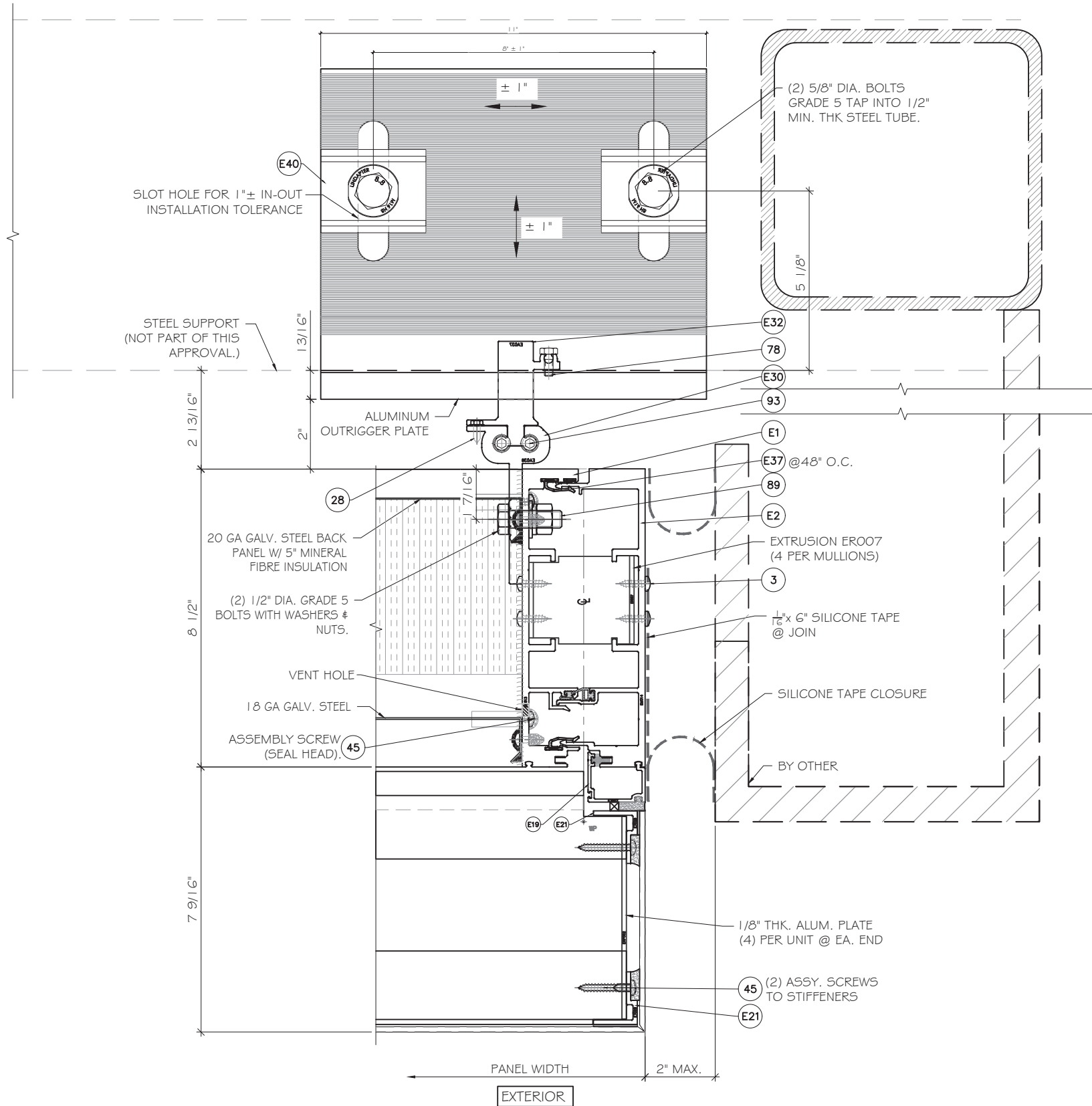
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Rev. No.		Date	
1.		11/21/2025	
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Description		NEW	

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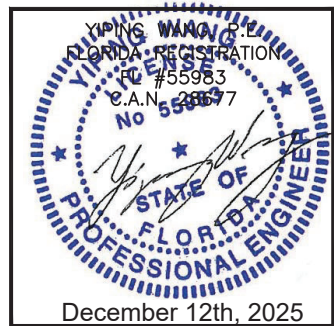


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1 PLAN DETAIL.
D28 SCALE: 1'-0"=1'-0"

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D28		AD25-54	
Sheet No.		33 OF 42	

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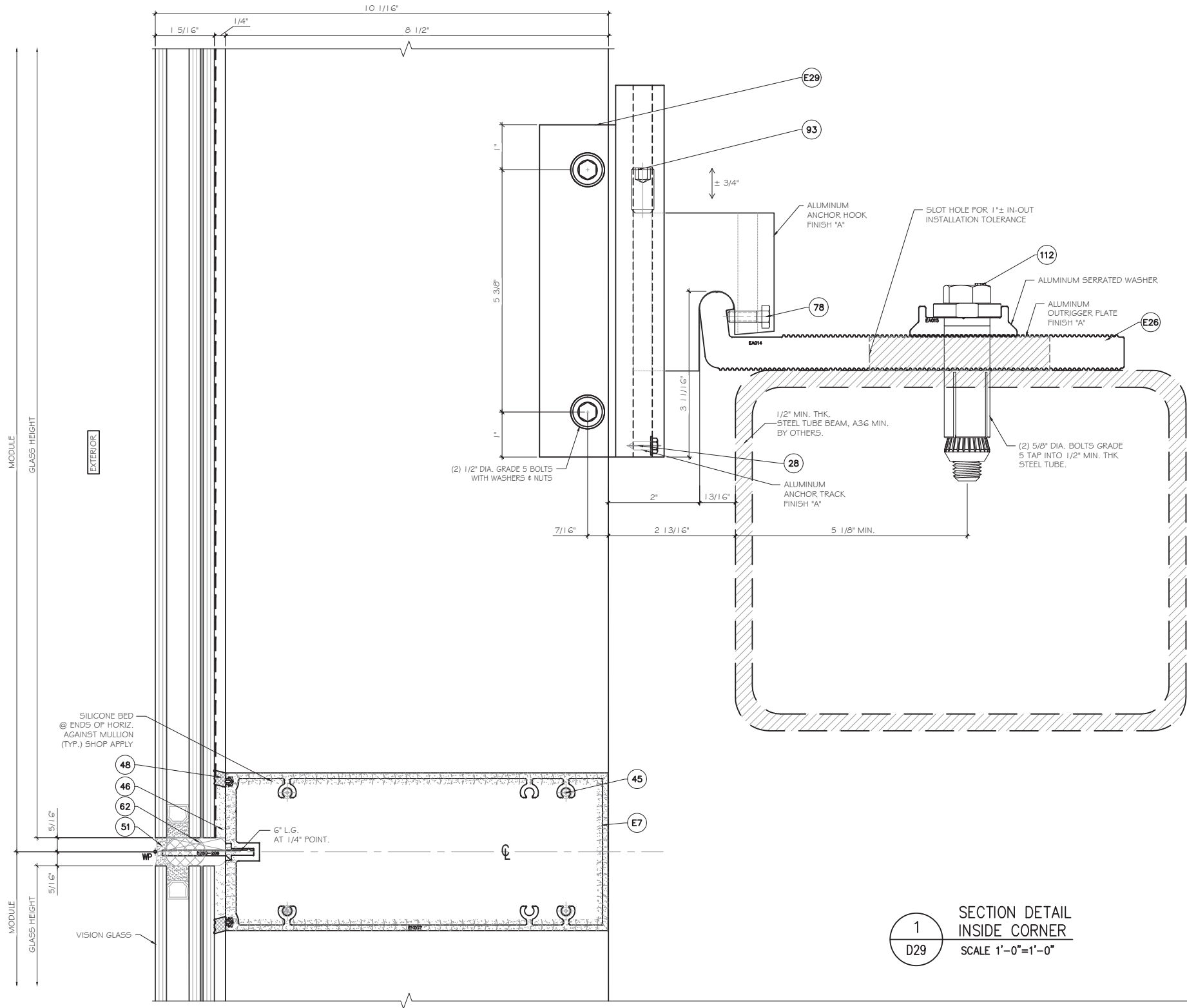
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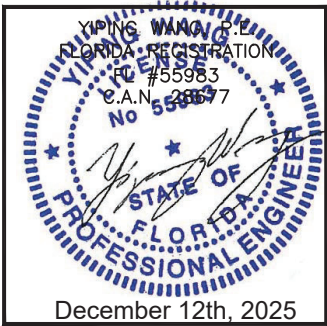
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1
D29

SECTION DETAIL
INSIDE CORNER
SCALE 1'-0"=1'-0"

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1.	11/21/2025	JAMES	NEW

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11/21/2025

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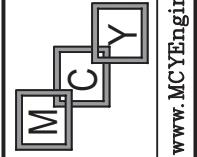
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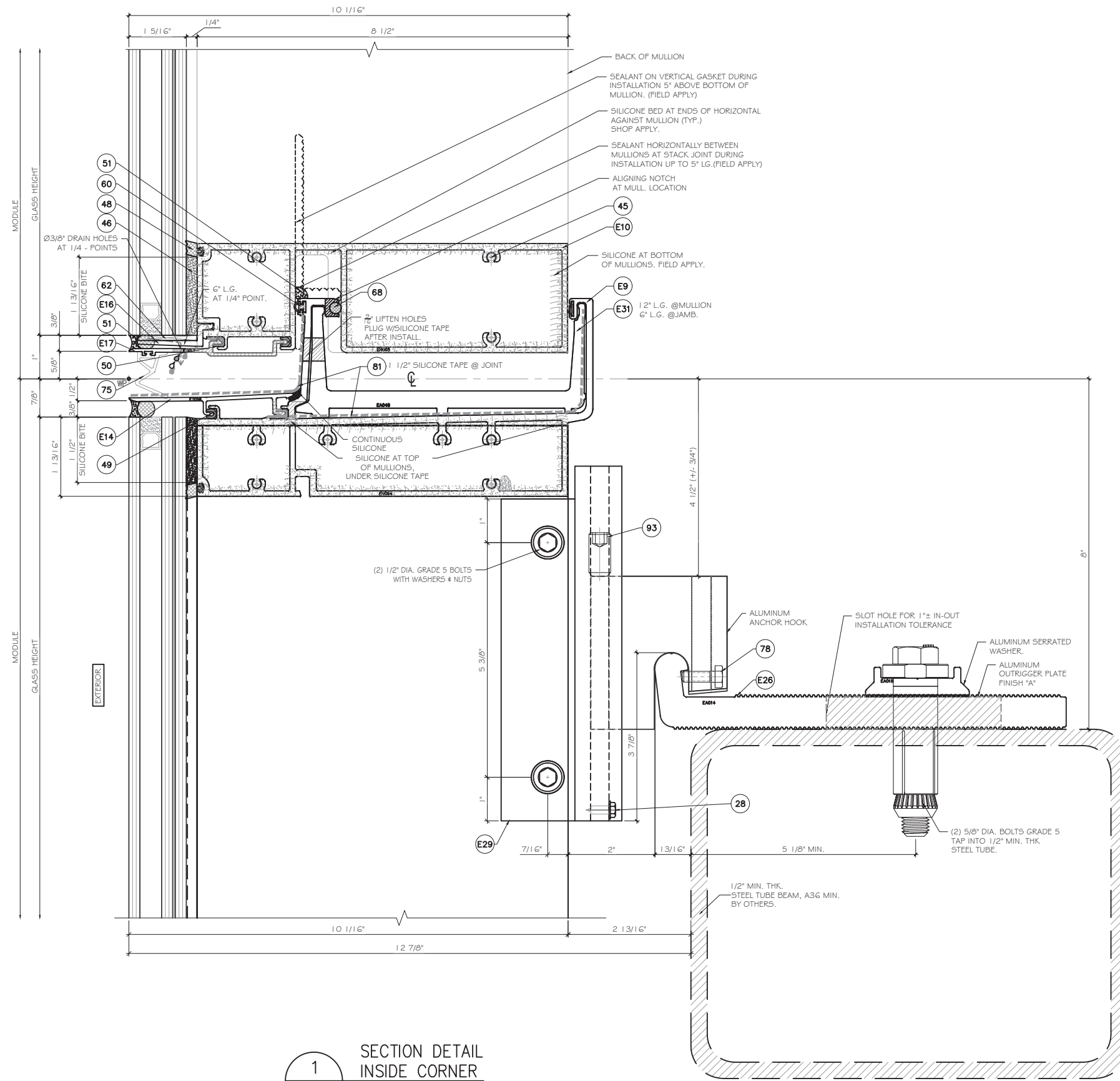
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34 OF 42

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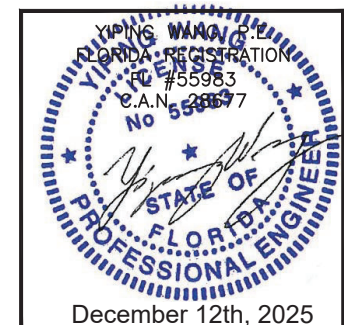
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1
D30

SECTION DETAIL
INSIDE CORNER
SCALE 1'-0"=1'-0"

FLORIDA APPROVAL:
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11/21/2025

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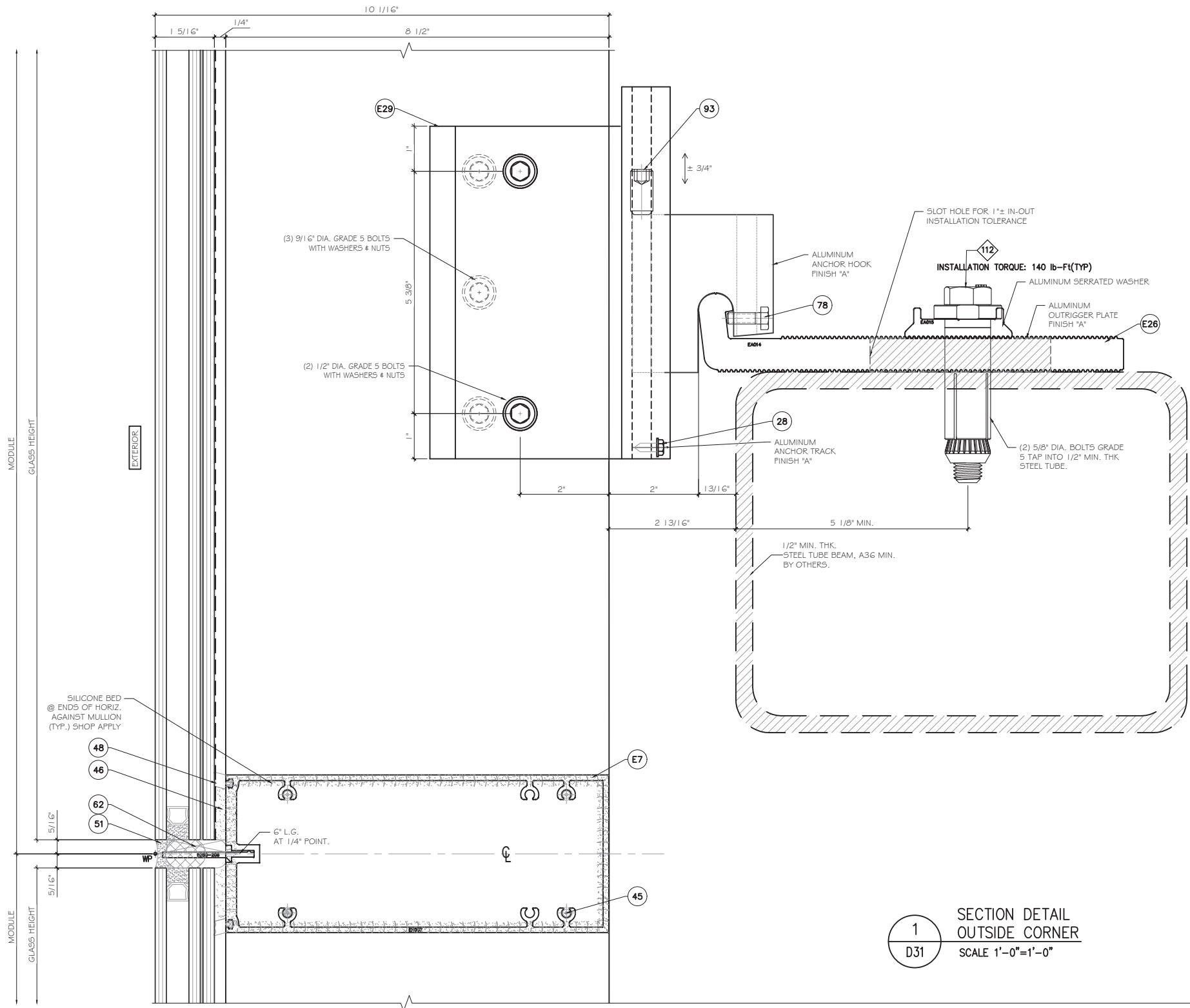
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35 OF 42

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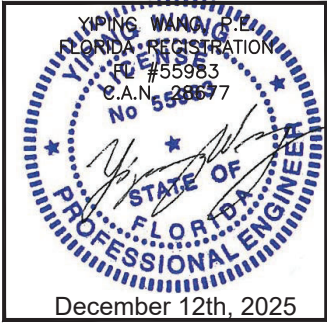
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1
D31 SECTION DETAIL
OUTSIDE CORNER
SCALE 1'-0"=1'-0"

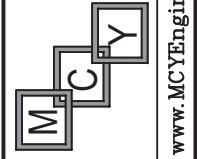
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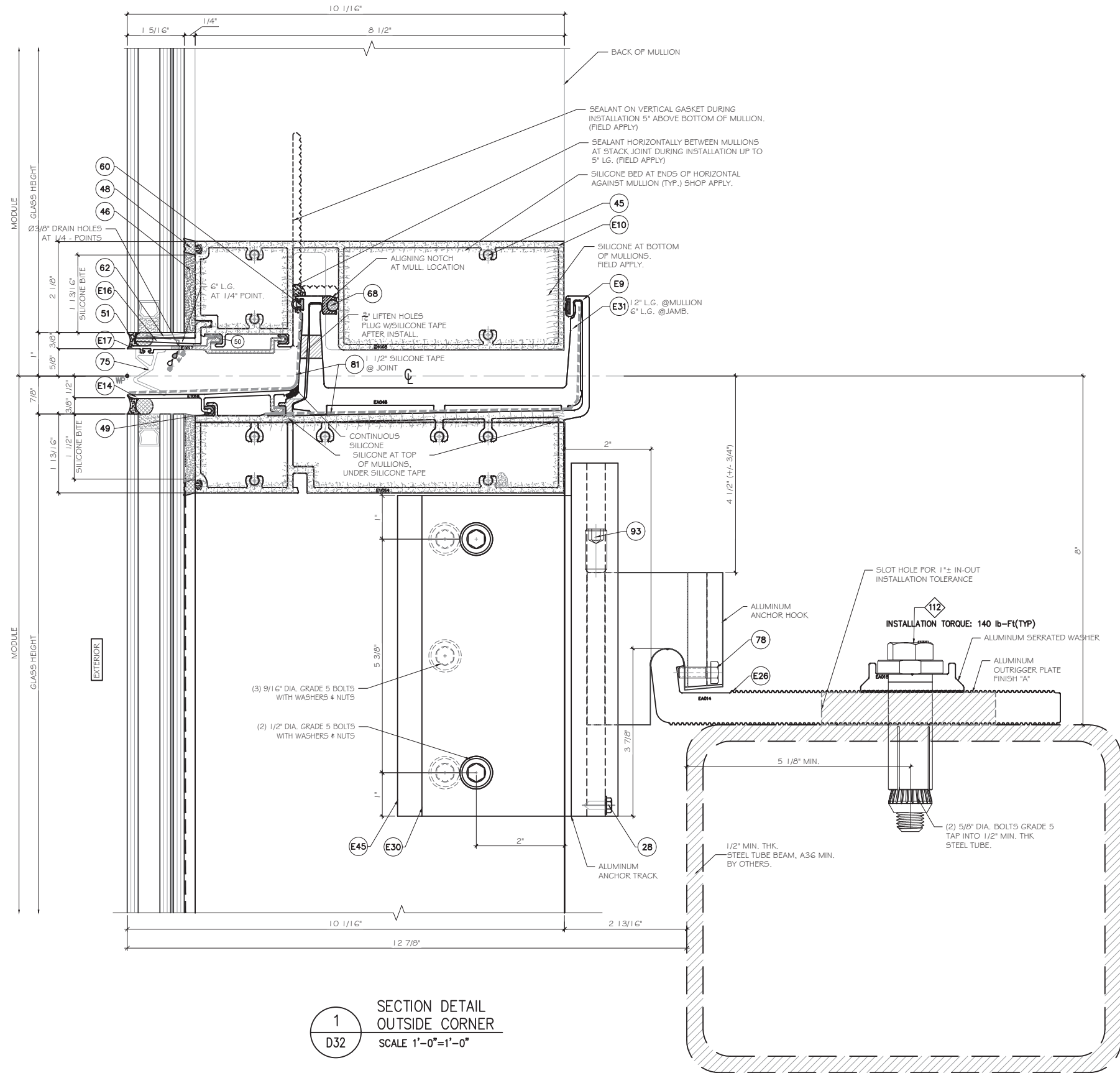
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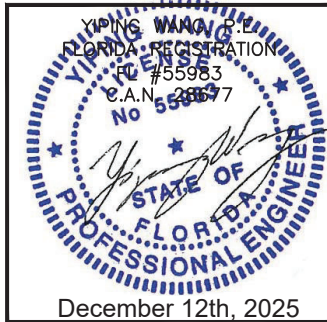


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1
D32 SECTION DETAIL OUTSIDE CORNER
SCALE 1'-0"=1'-0"

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Rev. No.	Date	Drawn By	Description
1.	11.21.2025	JAMES	NEW

Drawn Date
11/21/2025

Scale
AS SHOWN

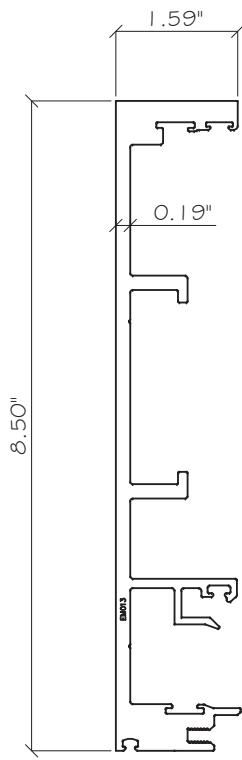
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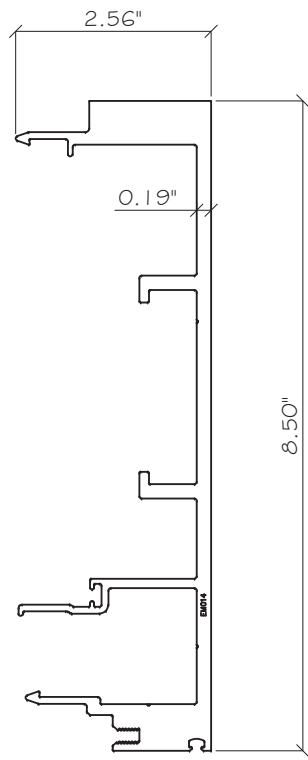
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37 OF 42

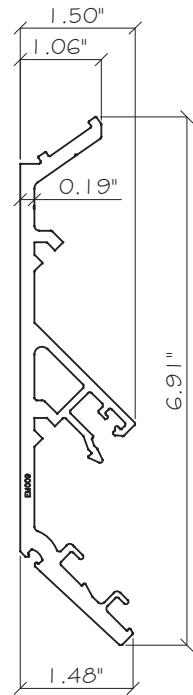
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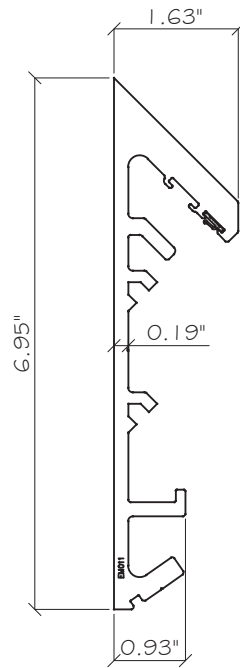
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ALUM. 6063-T6



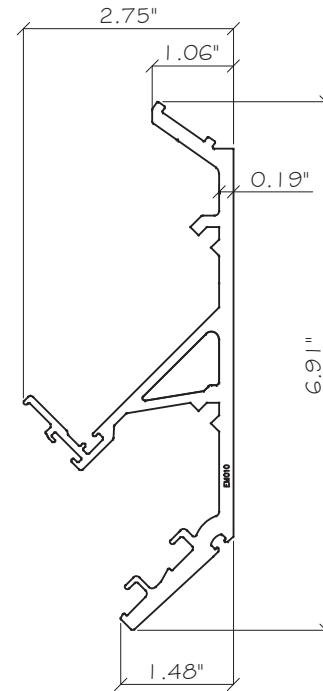
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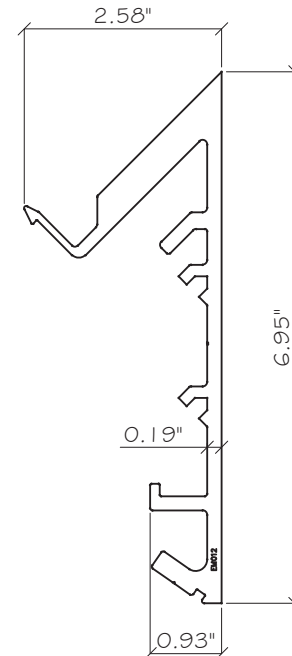
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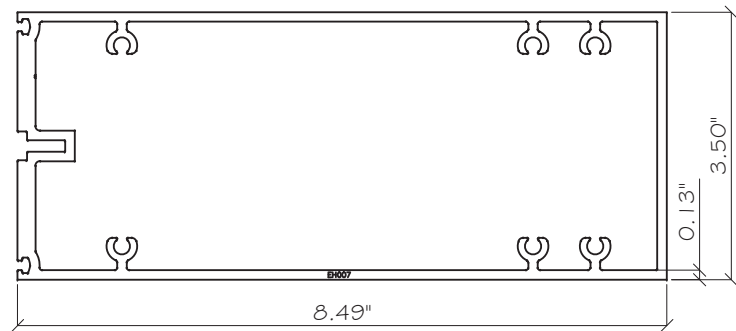
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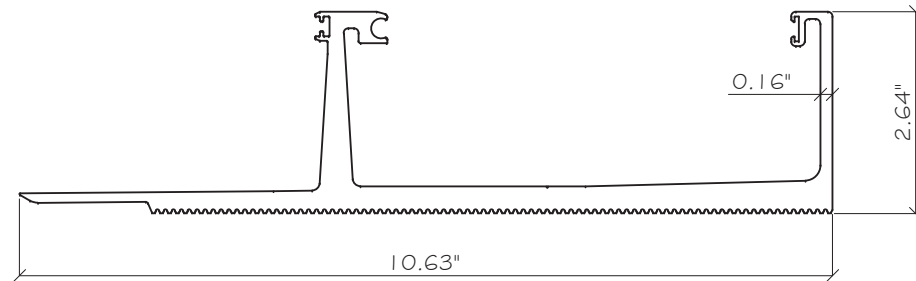
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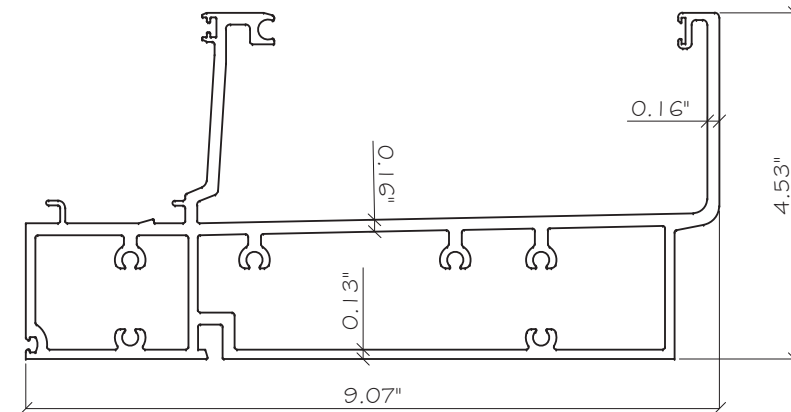
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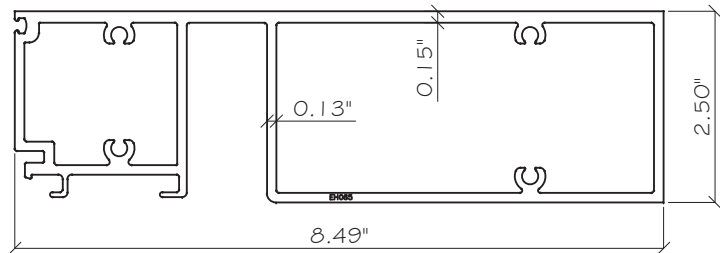
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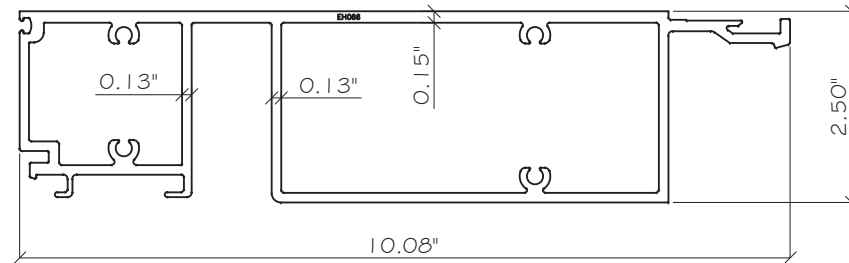
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ALUM. 6061-T6



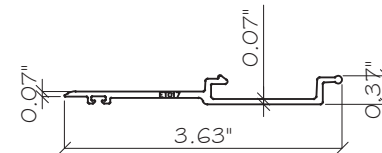
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ALUM. 6063-T6



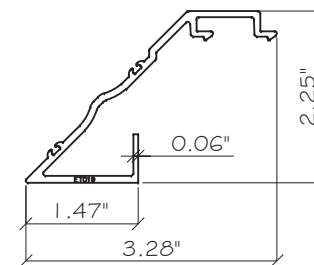
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ALUM. 6063-T6



E11 SILL HORIZONTAL FRONT
ALP-031
ALUM. 6063-T6

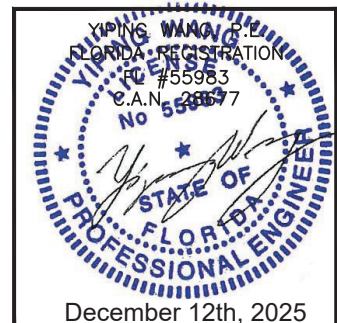


E12 FIN
GW-7000-498
ALUM. 6063-T6



E13 EXTERIOR CORNER FIN
GW 7000-750
ALUM. 6063-T6

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1.	11/21/2025	JAMES	NEW
Drawing No. AS SHOWN			
DRAWING NO. AD25-54			
PART			
Sheet No. 38 OF 42			

E15
FIN
GW-7000-192
ALUM. 6063-T6

E16
GLASS CHAIR
7000-492
ALUM. 6063-T6

E17
FIN
GW-7000-788
ALUM. 6063-T6

E19
SUPPORT
ALP-023
ALUM. 6063-T6

E20
SUPPORT
ALP-024
ALUM. 6063-T6

E21
SUPPORT
ALP-028
ALUM. 6063-T6

E22
SUPPORT
ALP-029
ALUM. 6063-T6

E23
SUPPORT
ALP-033
ALUM. 6063-T6

E14
FIN
GW-7000-787
ALUM. 6063-T6

E24
SUPPORT
ALP-034
ALUM. 6063-T6

E38
SUPPORT
ALP-037
ALUM. 6063-T6

E25
3/8" SHIM
GW-7000-413
ALUM. 6063-T6

E26
ANCHOR PLATE
GW-7000-184
ALUM. 6061-T6

E27
ANCHOR TRACK OUTSIDE CORNER 90°
GW-7000-833
ALUM. 6061-T6

E28
1/8" SHIM
GW-7000-414
ALUM. 6063-T6

E29
ANCHOR TRACK INSIDE CORNER 90°
ALP-032
ALUM. 6061-T6

E30
ANCHOR TRACK
GW-7000-XXX
ALUM. 6061-T6

E31
ANCHOR BASE
ALP-022
ALUM. 6061-T6

E32
ANCHOR HOOK
GW-7000-829
ALUM. 6061-T6

E33
VERTICAL SPLICE
ALP-020
ALUM. 6061-T6

E34
VERTICAL SPLICE
GW-7000-475
ALUM. 6061-T6

E18
COVER
ALUM. 6063-T6

E35
SETTING CHAIR
5250-206
ALUM. 6063-T6

E37
ANTI BUCKLING CLIP
ES-WW38-055
ALUM. 6063-T6

E40
SERRATED WASHER
GW-7000-831
ALUM. 6061-T6

E36
SLEEVE
ES-A-018
ALUM. 6063-T6

E39
ALUMINUM TUBE
TGT-215
ALUM. 6063-T6

FLORIDA APPROVAL:
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YOUNG, WING & PYLE
FLORIDA REGISTRATION
No. 55983
C.A.N. 2007

December 12th, 2025

Drawn Date
11/21/2025

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Drawing No.
111212025

Drawn By
JAMES

Date
11/21/2025

Description
NEW

AD25-54

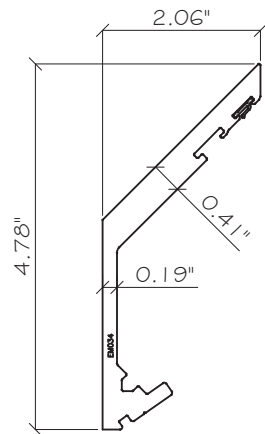
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Sheet No.
39 OF 42

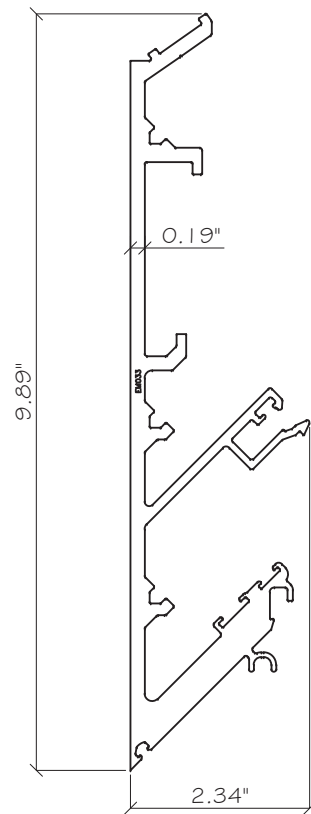
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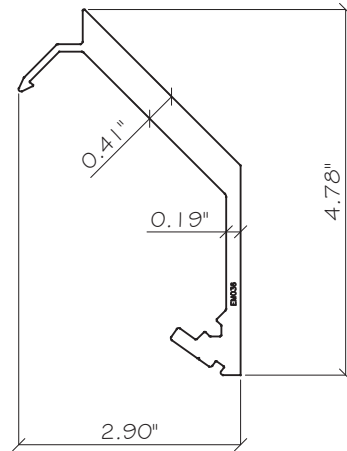
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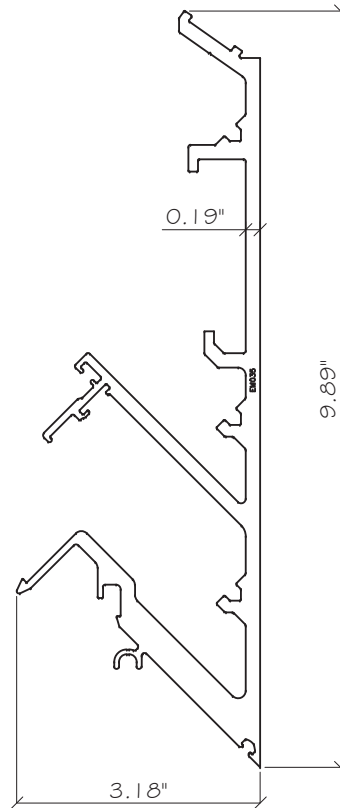
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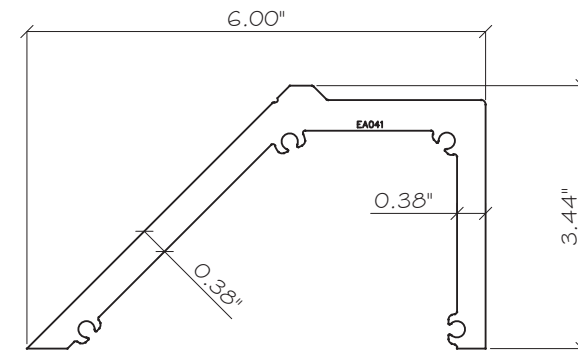
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ALUM. 6063-T6



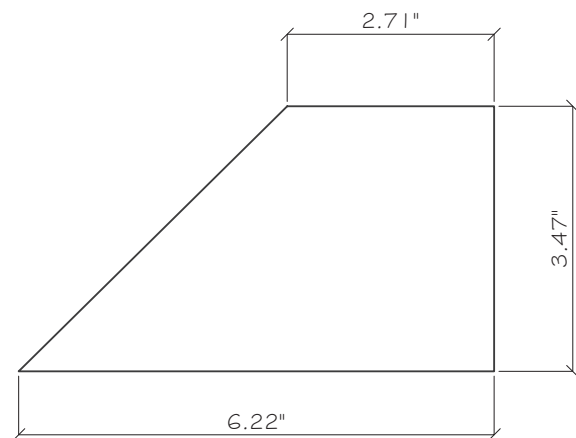
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ALUM. 6063-T6

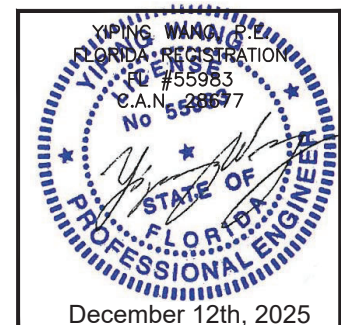


E45 ANCHOR TRACK OUTSIDE CORNER 90°
GW-7000-833
ALUM. 6061-T6



E46 3/8" THK. ALUM. PLATE
ALUM. 6061-T6

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FL28879.10



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Rev. No.	Date	Drawn By	Description
1.	11/21/2025	JAMES	NEW

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PART

Sheet No.
40 OF 42

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

www.MCYEngineering.com mcy@mcyengineering.com

BILL OF MATERIAL			
ITEM	PART	DESCRIPTION	MATERIAL
E1	GW-7000-190	FEMALE MULLION	ALUM.6063-T6
E2	GW-7000-191	MALE MULLION	ALUM.6063-T6
E3	GW-7000-167	FEMALE MULLION	ALUM.6063-T6
E4	GW-7000-168	FEMALE MULLION	ALUM.6063-T6
E5	GW-7000-169	MALE MULLION	ALUM.6063-T6
E6	GW-7000-170	MALE MULLION	ALUM.6063-T6
E7	ALP-039	INTERMEDIATE HORIZONTAL	ALUM.6063-T6
E8	ALP-036	SUBSILL	ALUM.6061-T6
E9	ALP-021	GUTTER FRONT	ALUM.6063-T6
E10	ALP-026	SILL HORIZONTAL FRONT	ALUM.6063-T6
E11	ALP-031	SILL HORIZONTAL FRONT	ALUM.6063-T6
E12	GW-7000-498	FIN	ALUM.6063-T6
E13	GW-7000-750	EXTERIOR CORNER FIN	ALUM.6063-T6
E14	GW-7000-787	FIN	ALUM.6063-T6
E15	GW-7000-192	FIN	ALUM.6063-T6
E16	GW-7000-492	GLASS CHAIR	ALUM.6063-T6
E17	GW-7000-788	FIN	ALUM.6063-T6
E18	-	COVER	ALUM.6063-T6
E19	ALP-023	SUPPORT	ALUM.6063-T6
E20	ALP-024	SUPPORT	ALUM.6063-T6
E21	ALP-028	SUPPORT	ALUM.6063-T6
E22	ALP-029	SUPPORT	ALUM.6063-T6
E23	ALP-033	SUPPORT	ALUM.6063-T6
E24	ALP-034	SUPPORT	ALUM.6063-T6
E25	GW-7000-413	3/8" SHIM	ALUM.6063-T6
E26	GW-7000-184	ANCHOR PLATE	ALUM.6061-T6
E27	GW-7000-833	ANCHOR TRACK OUTSIDE CORNER 90°	ALUM.6061-T6

BILL OF MATERIAL			
ITEM	PART	DESCRIPTION	MATERIAL
E28	GW-7000-414	1/8" SHIM	ALUM.6063-T6
E29	ALP-032	ANCHOR TRACK INSIDE CORNER 90°	ALUM.6061-T6
E30	GW-7000-XXX	ANCHOR TRACK	ALUM.6061-T6
E31	ALP-022	ANCHOR BASE	ALUM.6061-T6
E32	GW-7000-829	ANCHOR HOOK	ALUM.6061-T6
E33	ALP-020	VERTICAL SPLICE	ALUM.6061-T6
E34	GW-7000-475	VERTICAL SPLICE	ALUM.6061-T6
E35	5250-206	SETTING CHAIR	ALUM.6063-T6
E36	ES-A-018	SLEEVE	ALUM.6063-T6
E37	ES-WW38-055	ANTI BUCKING CLIP	ALUM.6063-T6
E38	ALP-037	SUPPORT	ALUM.6063-T6
E39	TGT-215	ALUMINUM TUBE	ALUM.6063-T6
E40	GW-7000-831	SERRATED WASHER	ALUM.6061-T6
E41	-	CORNER MULLION	ALUM.6063-T6
E42	-	CORNER MULLION	ALUM.6063-T6
E43	-	CORNER MULLION	ALUM.6063-T6
E44	-	CORNER MULLION	ALUM.6063-T6
E45	GW-7000-833	ANCHOR TRACK OUTSIDE CORNER 90°	ALUM.6061-T6
E46	-	3/8" THK. ALUM. PLATE.	ALUM.6061-T6

FLORIDA APPROVAL:

FL28879.10

YOUNG WONG & P.C.

FLORIDA REGISTRATION

FL #55983

C.A.N. 28877

No 55983

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Drawn Date

11/21/2025

Scale

AS SHOWN

December 12th, 2025

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Rev. No.

1.

11/21/2025

JAMES

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Description

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DRAWING NO.

AD25-54

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Sheet No.

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