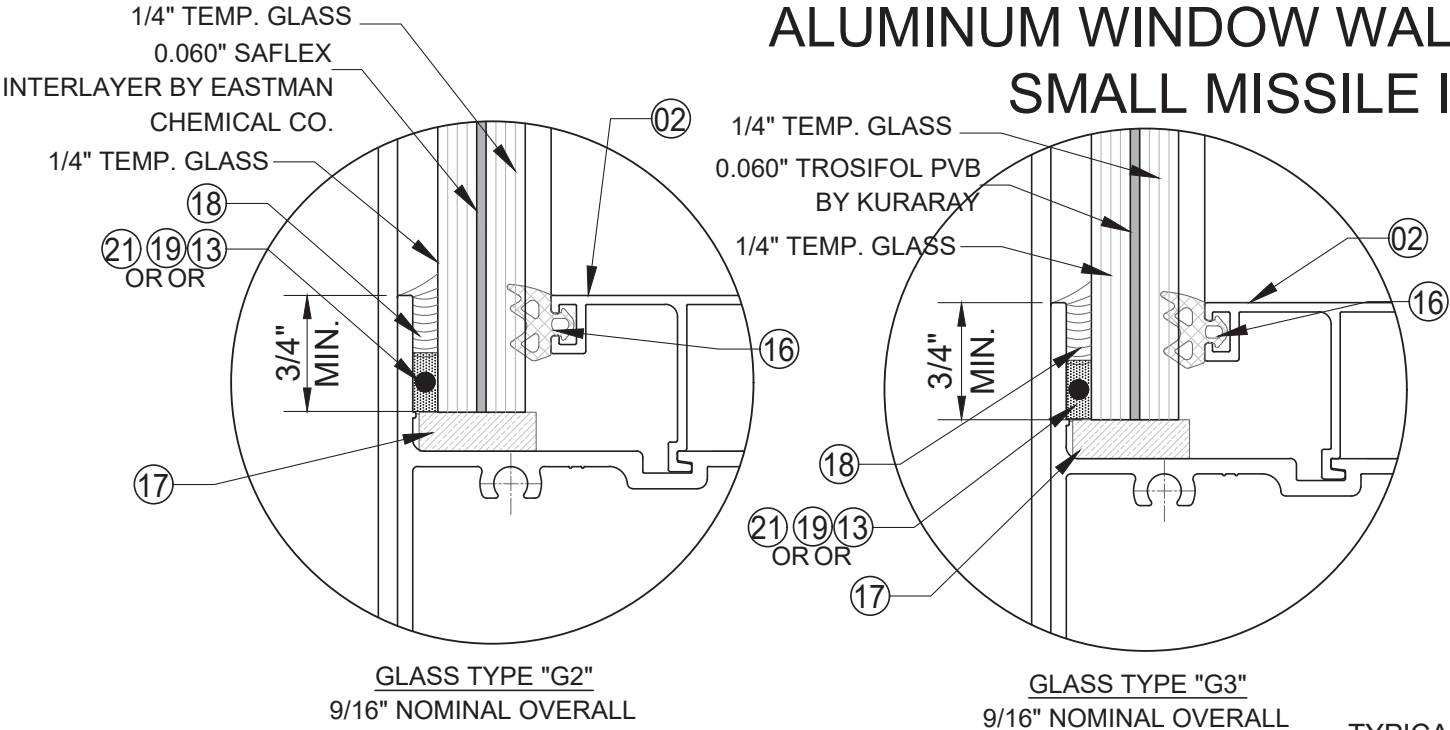


GLOBAL PERFORMANCE WINDOWS INC.
DBA. EPYSLON USA

ALUMINUM WINDOW WALL SERIES EUSA HW20
SMALL MISSILE IMPACT (SMI)



GLASS TYPE	D.L.O. W (IN)	D.L.O. H (IN)	PD (PSF)
G2	47 1/8"	116 1/2"	132
G3	54 1/2"	120"	110

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED FOR ELEVATIONS ABOVE 30'-0" FROM GRADE. IMPACT SHUTTERS ARE REQUIRED FOR ELEVATIONS BELOW 30'-0" FROM GRADE.
- 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 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.

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

- METAL STRUCTURES NOT BY GLOBAL PERFORMANCE WINDOWS 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 7-16/ 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.

-TYPICAL ANCHORS: (SEE ELEVATIONS FOR SPACING)

HEAD AND SILL ANCHORS:

- A) 1/2" DIA. KWIK HUS EZ
(Fu = 112.5 KSI, Fy = 88.45 KSI)
3 " MIN. EMBEDMENT INTO CONCRETE fc'=4000 psi Min.
3 1/2" MIN. EDGE DISTANCE
- B) 1/2" DIA. ELCO TAP-FLEX INTO 3/16" MIN. THK. STEEL (A36 MIN.)
(Fu = 120 KSI, Fy = 92 KSI)
1 1/2" MIN. EDGE DISTANCE

JAMB ANCHORS:

- C) 5/16" DIA. DEWALT ULTRACON
(Fu = 177 KSI, Fy = 155 KSI)
1 3/4" MIN. EMBED. INTO CONCRETE fc'=3000 psi Min. 2 1/2" MIN. EDGE DISTANCE
1 3/4" MIN. INTO GROUT FILLED CONC. BLOCK, 2 1/2" MIN. EDGE DISTANCE
1 1/4" MIN. EMBED. INTO HOLLOW CONC. BLOCK, 3 1/8" MIN. EDGE DISTANCE
- D) 5/16" DIA. ELCO DRILFLEX INTO 1/8" MIN. THK. ALUM. OR STEEL
(Fu = 120 KSI, Fy = 92 KSI)
1 1/2" MIN. EDGE DISTANCE
STEEL: A36 MIN.
ALUMINUM: 6063-T5 MIN.

-SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME SEALED WITH SILICON SEALANT.

LIMITATIONS OF USE

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

B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

YIRING WANG, P.E.
FLORIDA REGISTRATION
P.E. #55883
O.A.N. 28677

August 17th, 2023

NO	DATE	DESCRIPTION
3	08.07.23	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

12781 Miramar Parkway #301
Miramar, FL 33027 P: 305.271.0117
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SERIES EUSA-HW20 WINDOW WALL (SMI)

GLOBAL PERFORMANCE WINDOWS, INC.
DBA EPSYLON USA

1881 S.W. 3RD STREET POMPANO BEACH FL 33069
TEL: (954) 942-3322 FAX: (954) 942-3215

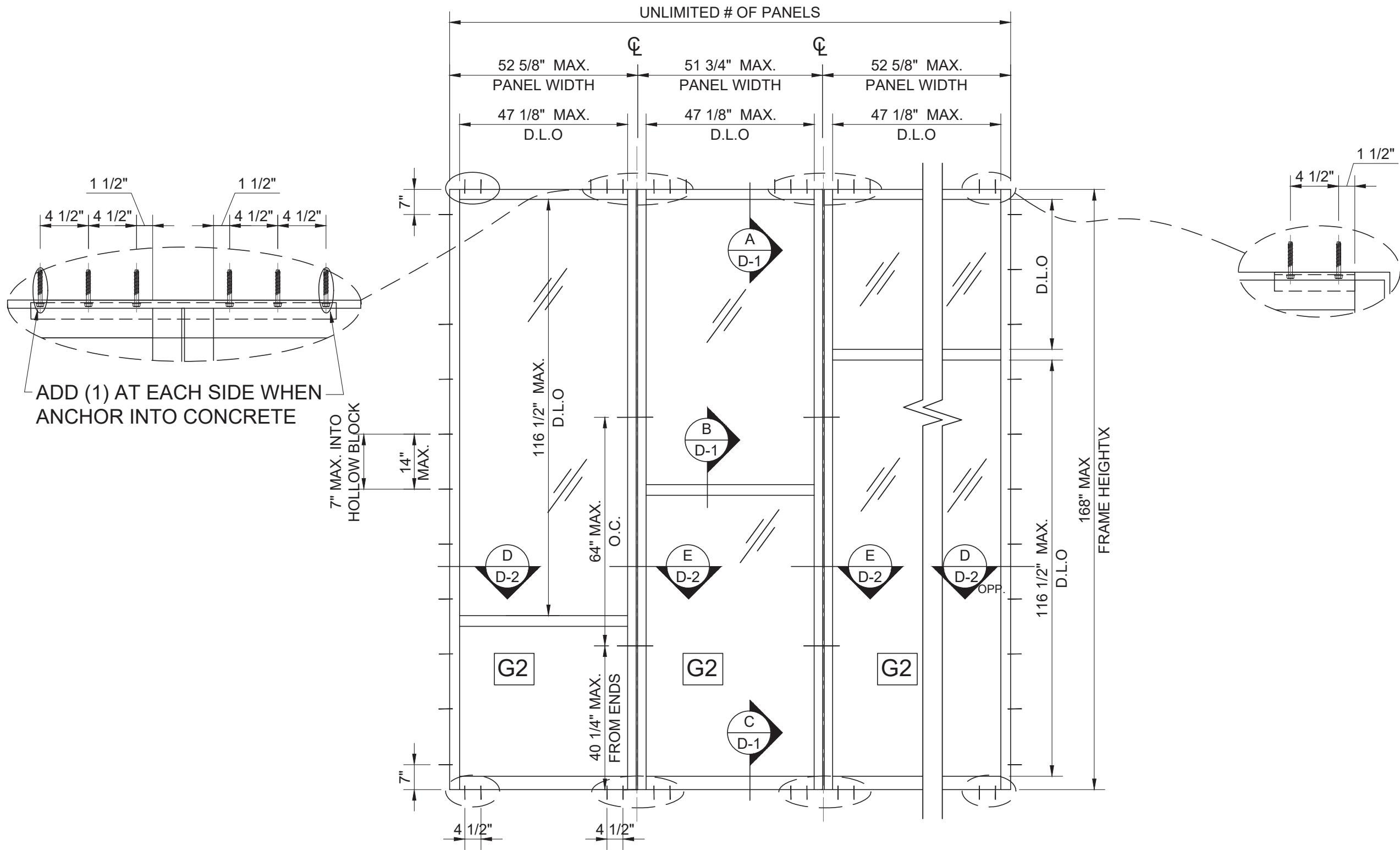
FL#19023.2

DATE	08.07.2023
SCALE	AS NOTED
DRAWN	JAMES
PROJECT	15-078

COVER

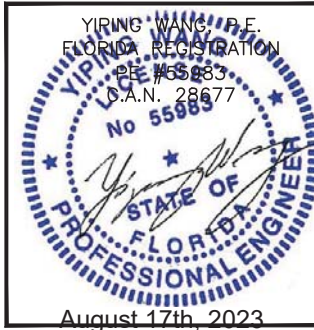
DRAWING NO.
AD15-50

1 OF 8



TYPICAL EXTERIOR ELEVATION
(UNREINFORCED MULLIONS)

DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+132 PSF
-132 PSF



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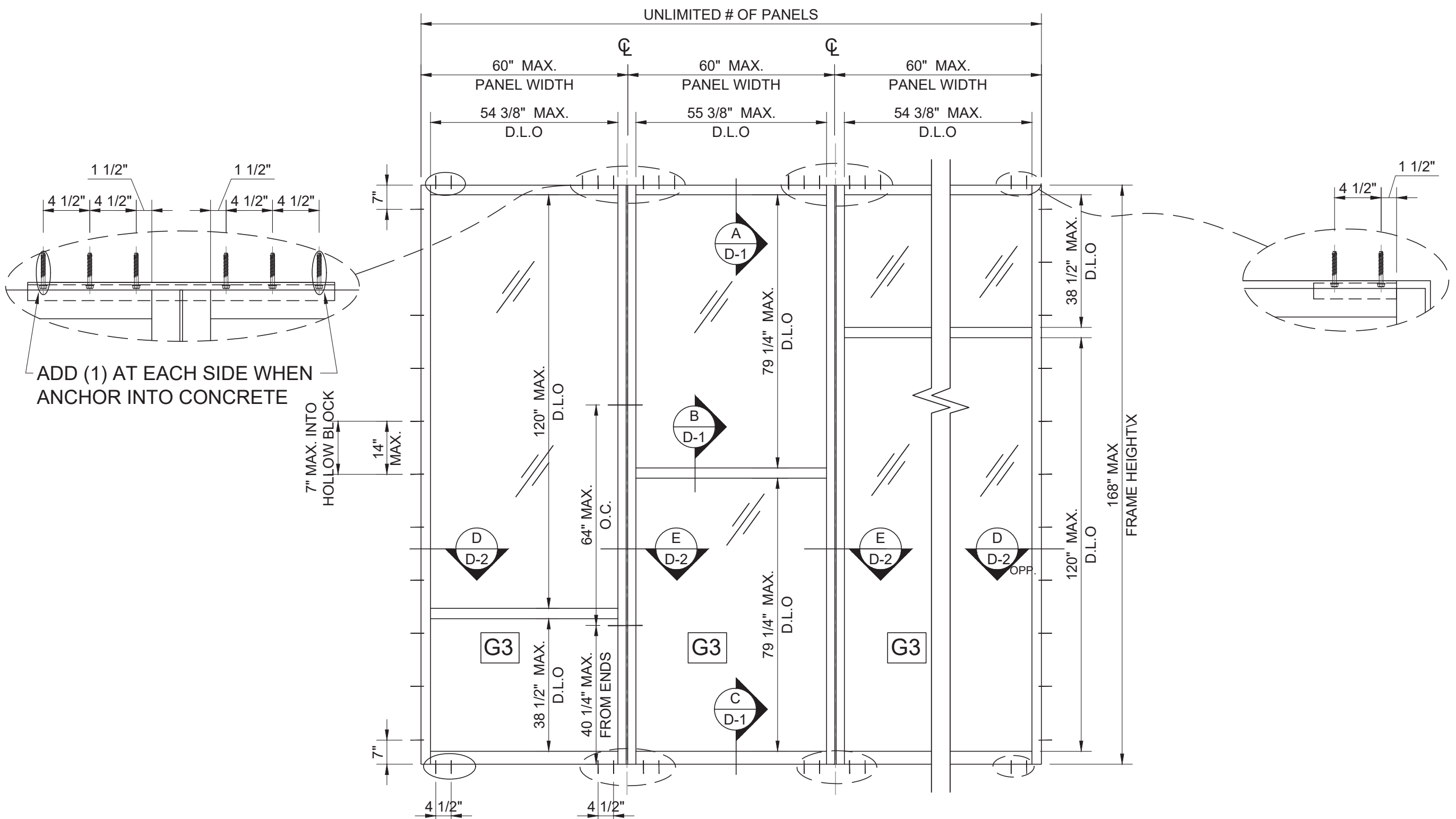
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DRAWN	JAMES
PROJECT	15-078

E-1

DRAWING NO.
AD15-50

2 OF 8



TYPICAL EXTERIOR ELEVATION
(UNREINFORCED MULLIONS)

DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+110 PSF
-110 PSF



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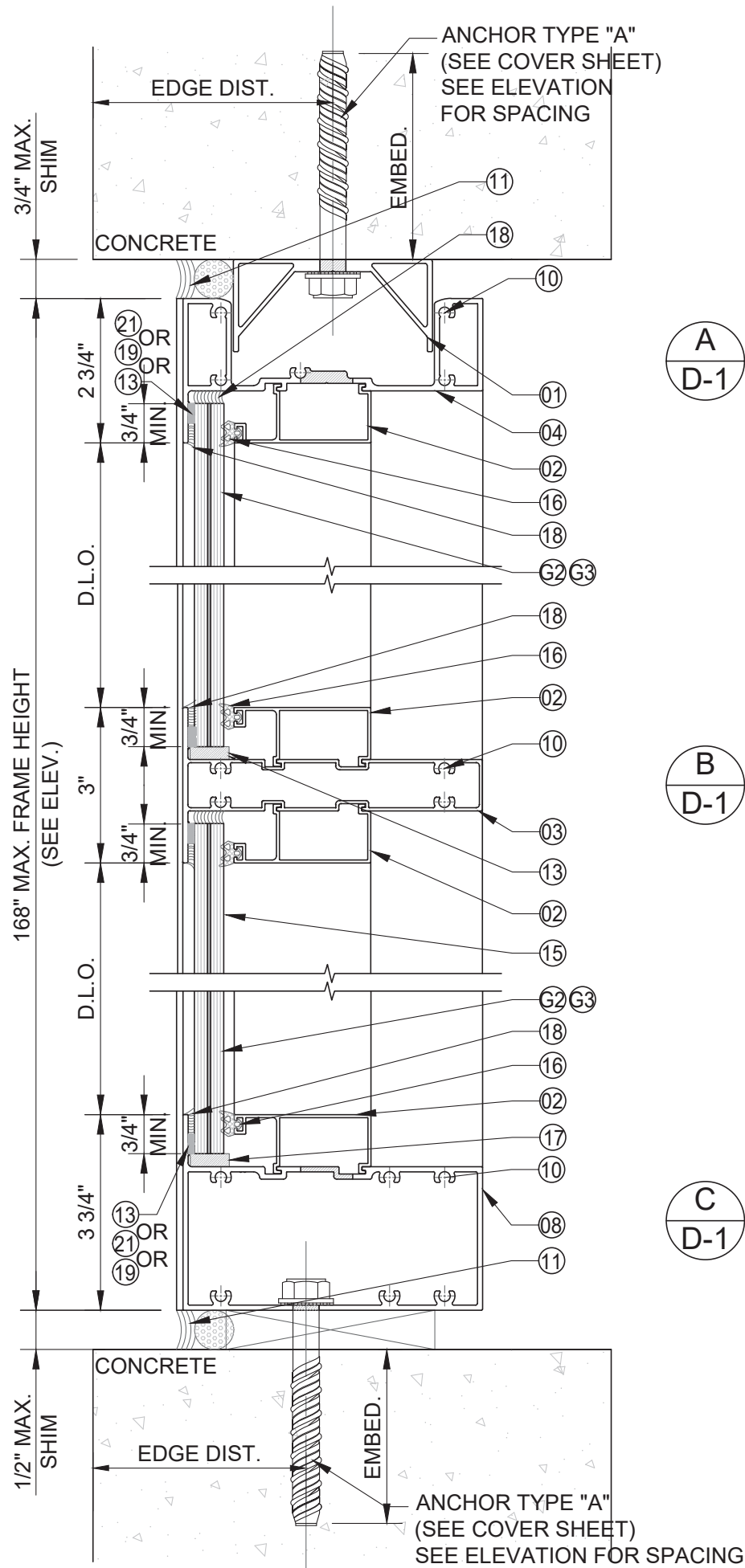
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E-1

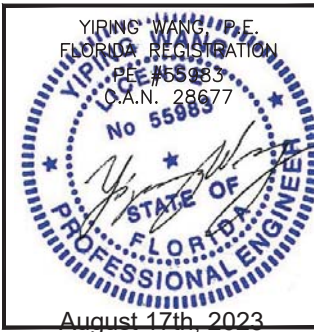
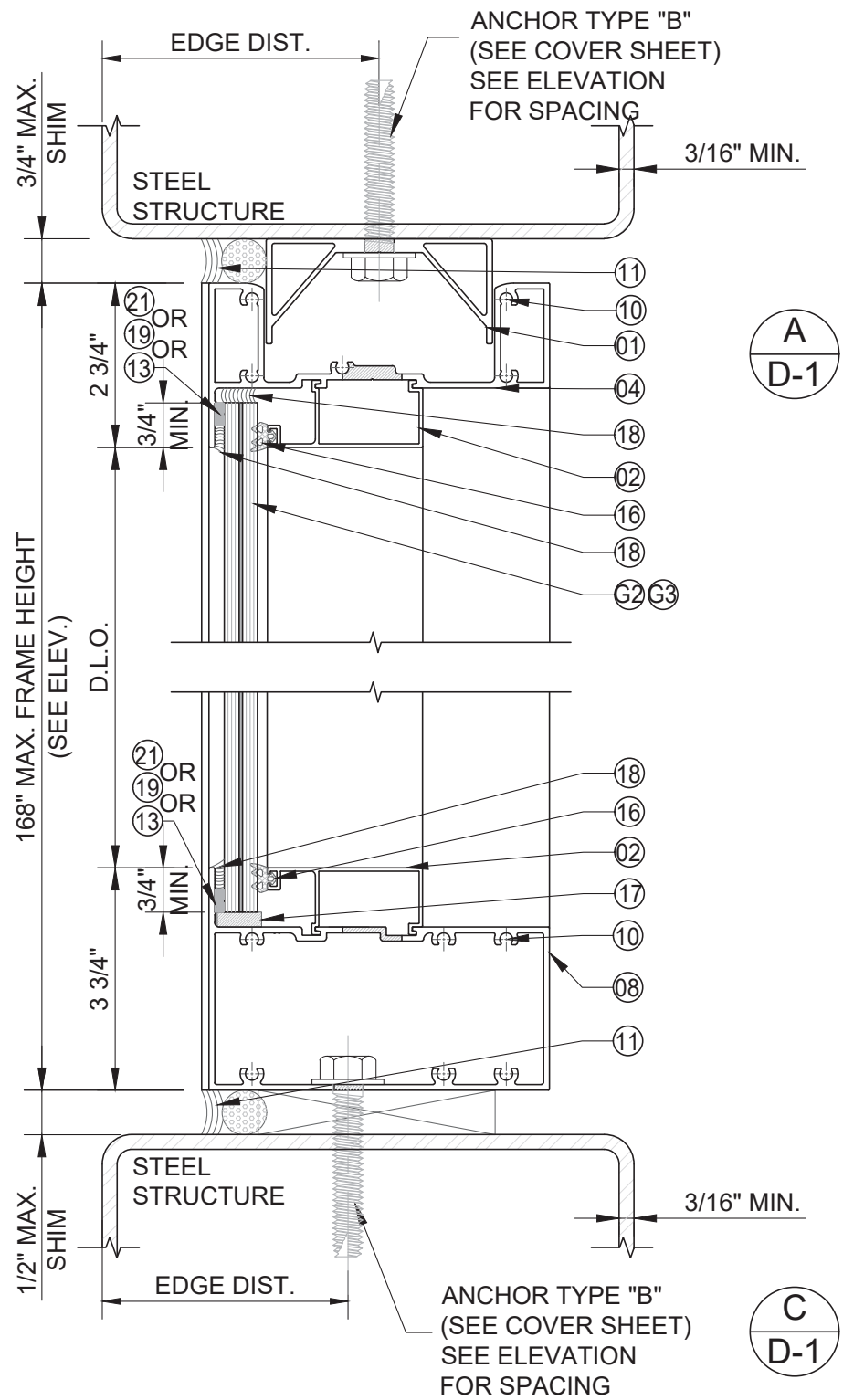
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EXTERIOR



EXTERIOR



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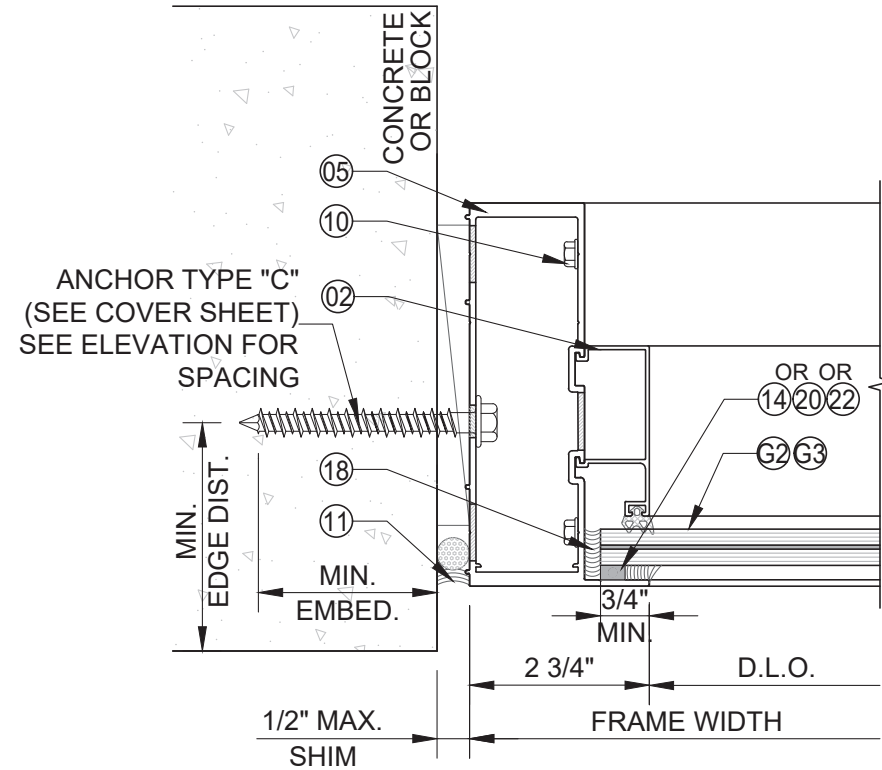
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D-1

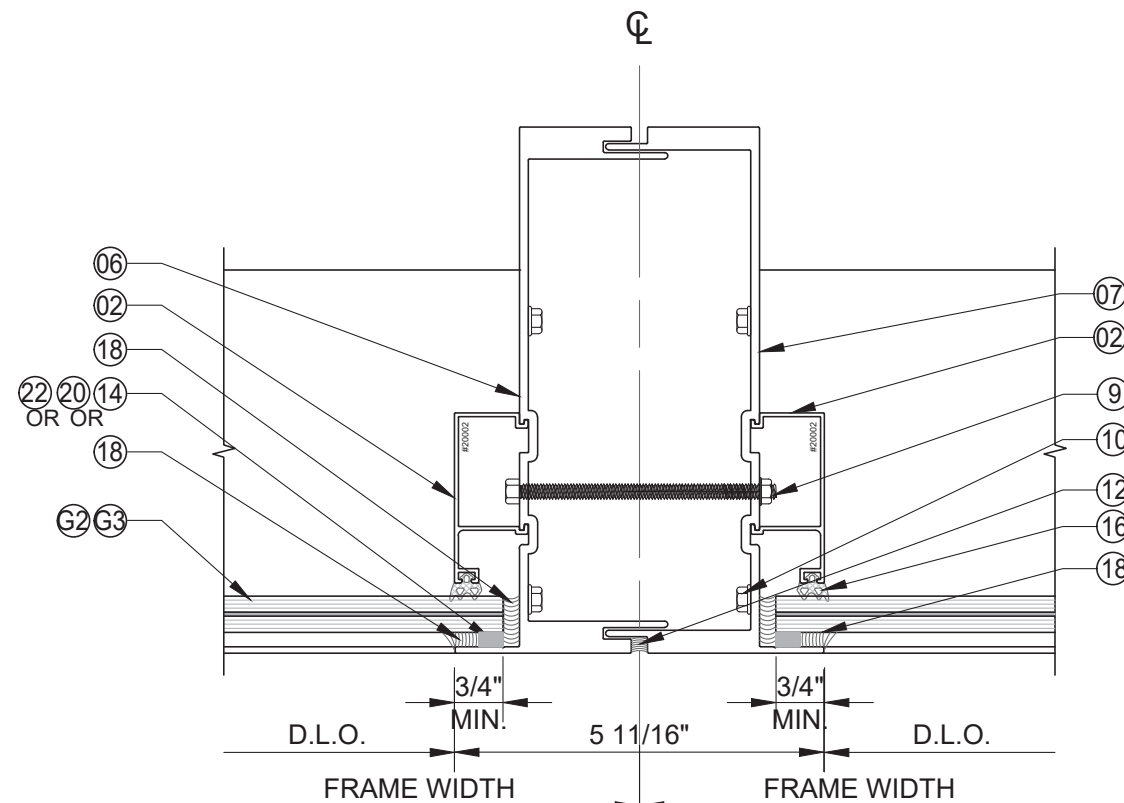
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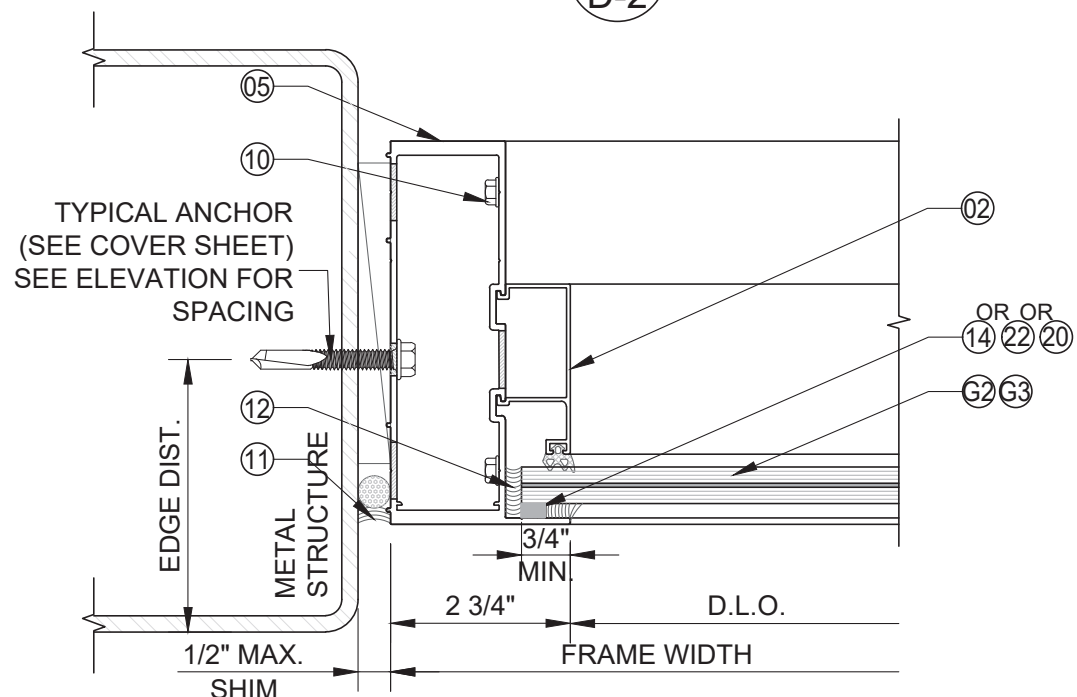
EXTERIOR

D
D-2



EXTERIOR

E
D-2



EXTERIOR

D
D-2

@ 40 1/4" FROM MULL. ENDS
& 64" O.C. MAX.

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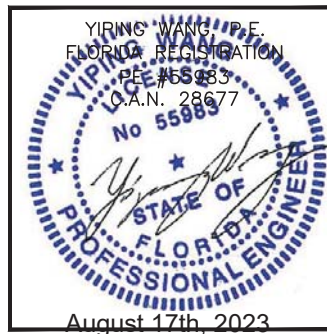
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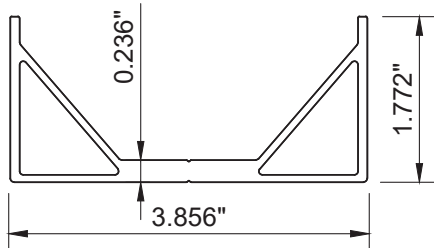
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D-2

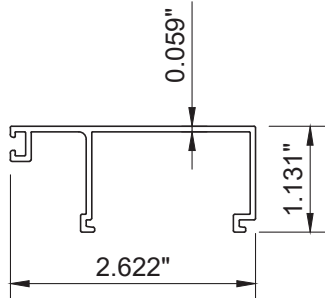
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AD15-50

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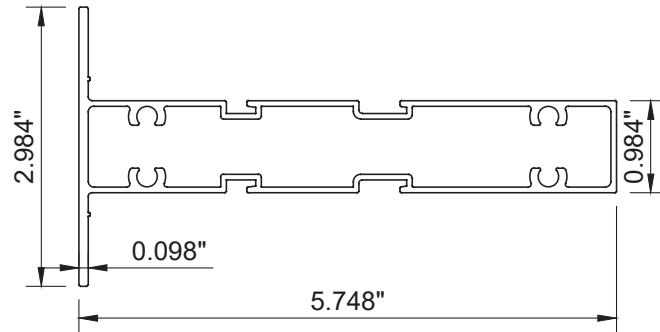




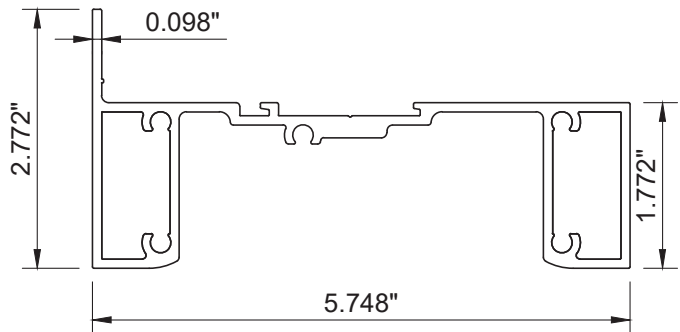
① SLEEVE ANCHOR
(#20001) ALUMINUM 6063-T6



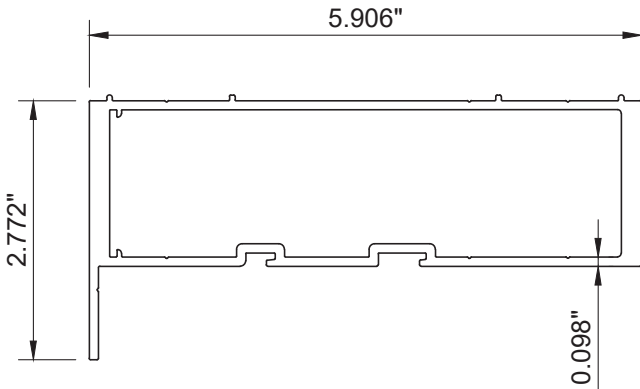
② SNAP-ON CAP
(#20002) ALUMINUM 6063-T6



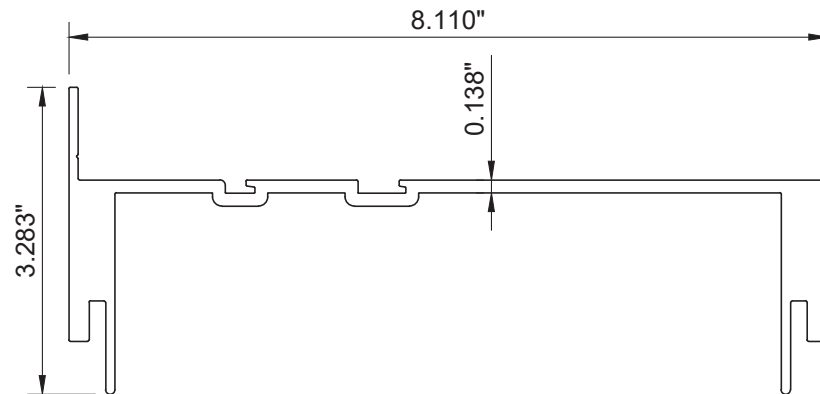
③ HORIZONTAL MULLION
(#20027) ALUMINUM 6063-T6



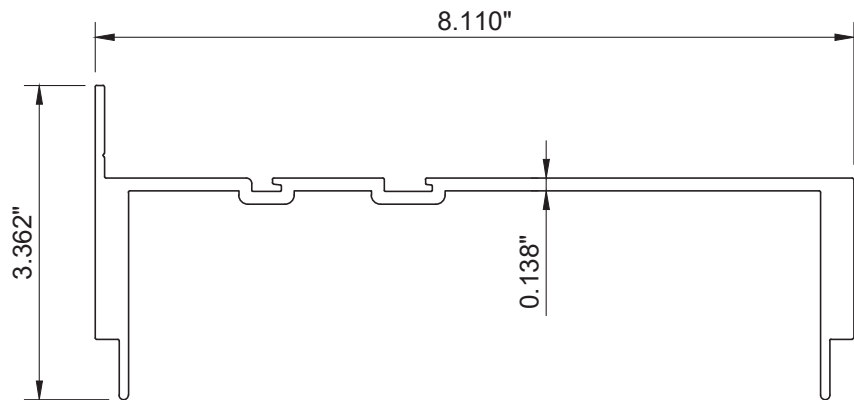
④ FRAME HEAD / SILL
(#20004) ALUMINUM 6063-T6



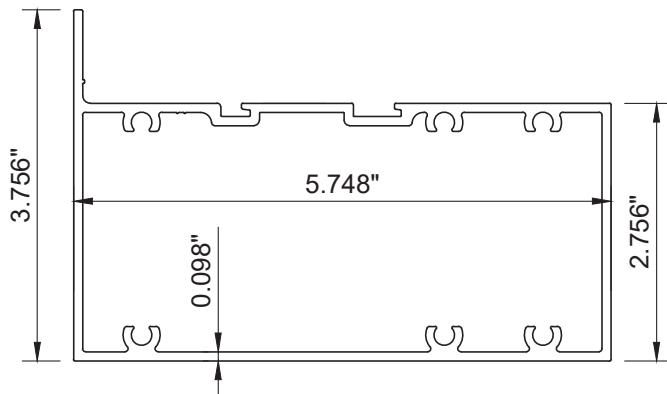
⑤ JAMB
(#20007) ALUMINUM 6063-T6



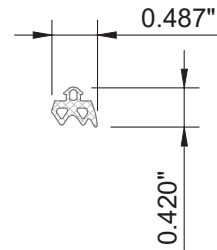
⑥ SPLIT MULLION (FEMALE)
(#20028) ALUMINUM 6063-T6



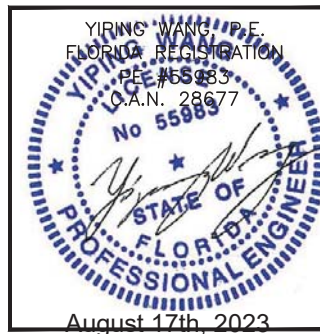
⑦ SPLIT MULLION (MALE)
(#20029) ALUMINUM 6063-T6



⑧ FRAME HEAD / SILL
(#20026) ALUMINUM 6063-T6



⑬ GASKET - TREMCO
(#91501) EPDM



REVISIONS	
NO.	DATE
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FBC 2023	

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EXTRUSIONS

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BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	20001	ALUMINUM SLEEVE ANCHOR	ALUM. 6063-T6	METRA ALUMINUM INC
2	20002	ALUMINUM SNAP-ON CAP	ALUM. 6063-T6	METRA ALUMINUM INC
3	20027	ALUMINUM HORIZONTAL MULLION	ALUM. 6063-T6	METRA ALUMINUM INC
4	20004	ALUMINUM FRAME SILL / HEAD WITH SLEEVE ANCHOR	ALUM. 6063-T6	METRA ALUMINUM INC
5	20007	ALUMINUM FRAME JAMB	ALUM. 6063-T6	METRA ALUMINUM INC
6	20028	ALUMINUM SPLIT MULLION (FEMALE)	ALUM. 6063-T6	METRA ALUMINUM INC
7	20029	ALUMINUM SPLIT MULLION (MALE)	ALUM. 6063-T6	METRA ALUMINUM INC
8	20026	ALUMINUM FRAME HEAD/SILL	ALUM. 6063-T6	METRA ALUMINUM INC
9	---	#14-20 THRU BOLT W/ NUTS AND LOCK WASHER - 4" LONG @ 40 1/4" FROM MULL. ENDS & 64" O.C.	ST/ST	---
10	---	#14 HH SMS SS ASSEMBLY SCREWS - 1 1/2" LONG	ST/ST	---
11	---	BACKER ROD & SPECTREM II SEALANT	---	TREMCO
12	---	SPECTREM II SEALANT	SILICONE	TREMCO
13	---	POLYSHIM 1/8" X 1/2"	---	---
14	---	POLYSHIM 1/4" X 1/2"	---	---
16	91501	GASKET - TREMCO	EPDM DURO 60	TREMCO
17	---	SCR SETTING BLOCK @ 1/4 POINTS	RUBBER	DURO 70
18	---	PROGLAZE II (TREMCO)	SILICONE	TREMCO
19	VK1826	STRUCTURAL GLAZING SPACER,1/2"X1/8" THK, WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 65.	PVC FOAM	CAPITAL TAPE CO, INC
20	VK1826	STRUCTURAL GLAZING SPACER,1/2"X1/4" THK , WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 65.	PVC FOAM	CAPITAL TAPE CO, INC
21	V2108	HIGH-STRENGTH POLYURETHANE FOAM SUBSTRATE,1/2"X1/8" THK. WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 35.	FOAM	SAINT-GOBAIN PERFORMANCE PLASTICS
22	V2104	HIGH-STRENGTH POLYURETHANE FOAM SUBSTRATE,1/2"X1/4"THK. WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 35.	FOAM	SAINT-GOBAIN PERFORMANCE PLASTICS

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BOM

DRAWING NO.
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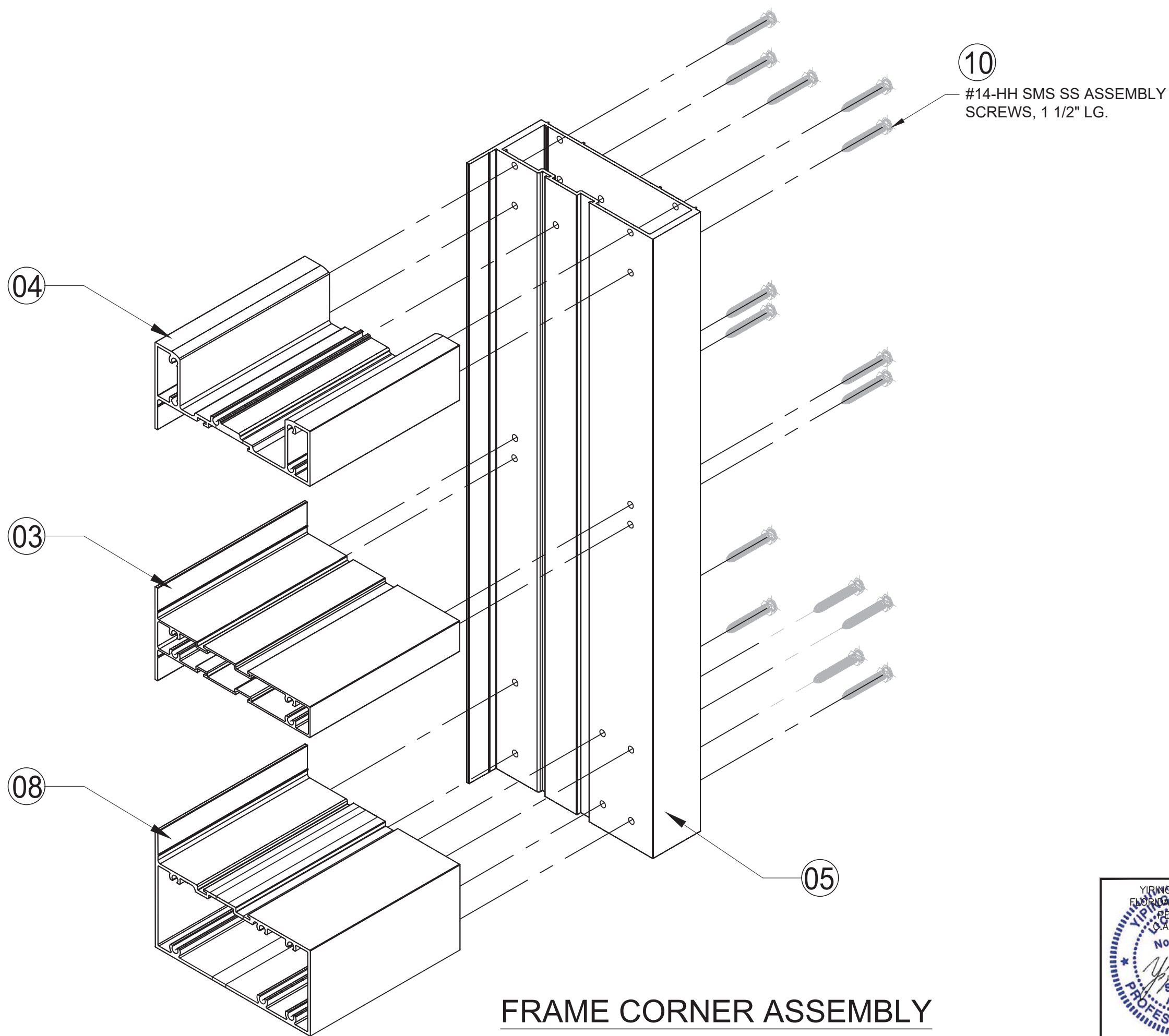
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #65983
C.A.N. 28677

No 55883

STATE OF FLORIDA

PROFESSIONAL ENGINEER

August 17th, 2023



FRAME CORNER ASSEMBLY

10
#14-HH SMS SS ASSEMBLY
SCREWS, 1 1/2" LG.



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