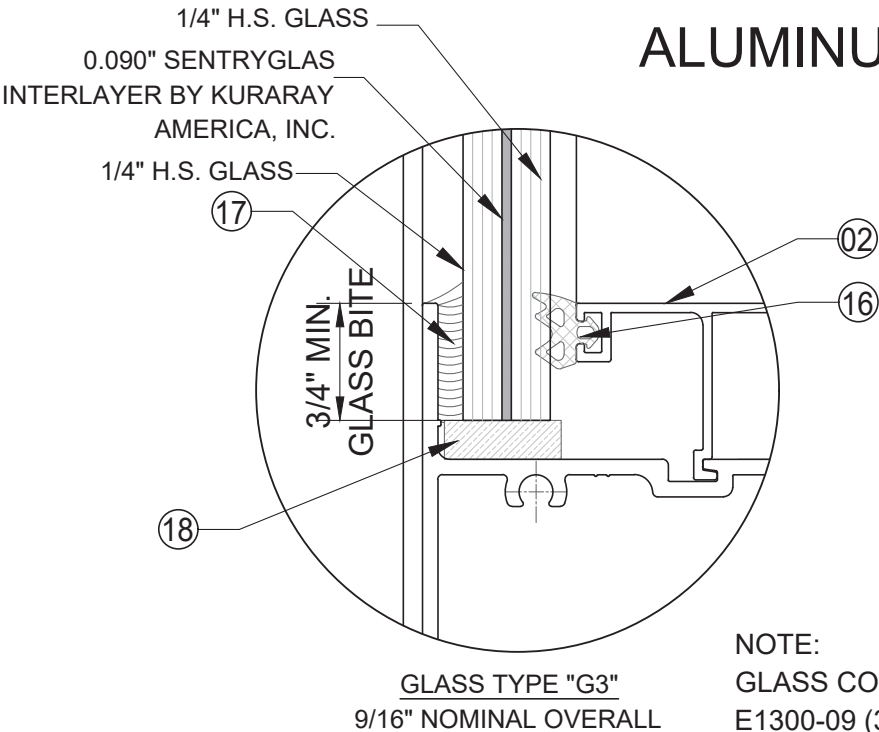


GLOBAL PERFORMANCE WINDOWS INC.
DBA. EPYSLON USA
ALUMINUM WINDOW-WALL SERIES EUSA HW20
LARGE MISSILE IMPACT (LMI)



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 LARGE MISSILE IMPACT. 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 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- 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 ANCHORS:

- A) 3/8" DIA. KWIK HUS EZ (Fu = 112.5 KSI, Fy = 88.45 KSI)
WITH 2 1/2" MIN. EMBEDMENT INTO 4 Ksi Min. CONCRETE,
W/ 3 1/2" MIN. EDGE DISTANCE & 4 1/2" MIN. O.C.
- B) 3/8" DIA. ELCO TAP-FLEX INTO 3/16" MIN. THK. STEEL (A36 MIN.)
(Fu = 120 KSI, Fy = 92 KSI)
1 1/2" MIN. EDGE DISTANCE

SILL ANCHORS:

- A) 3/8" DIA. KWIK HUS EZ (Fu = 112.5 KSI, Fy = 88.45 KSI)
WITH 2 1/2" MIN. EMBEDMENT INTO 4 Ksi Min. CONCRETE,
W/ 3 1/2" MIN. EDGE DISTANCE & 4 1/2" MIN. O.C.
- AA) 1/2" DIA. KWIK HUS EZ (Fu = 112.5 KSI, Fy = 88.45 KSI)
WITH 3" MIN. EMBEDMENT INTO 4 Ksi Min. CONCRETE,
W/ 3 1/2" MIN. EDGE DISTANCE & 4 1/2" MIN. O.C.

- B) 3/8" DIA. ELCO TAP-FLEX INTO 3/16" MIN. THK. STEEL (A36 MIN.)
(Fu = 120 KSI, Fy = 92 KSI)
1 1/2" MIN. EDGE DISTANCE
- BB) 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

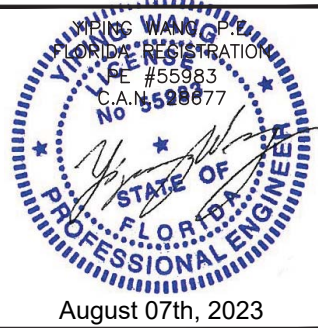
JAMB ANCHORS:

- C) 5/16" DIA. DEWALT ULTRACON
(Fu = 177 KSI, Fy = 155 KSI)
1 3/4" MIN. EMBED. INTO CONCRETE $f_c' = 3000$ psi MIN. 3 1/8" 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.



REVISIONS	
NO.	DATE DESCRIPTION
1.	08.07.23 FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 Miramar Parkway #301
Miramar, FL 33027
P. 305.271.0117
www.MCYEngineering.com MCY@mcysengineering.com

SERIES EUSA-HW20 ALUMINUM WINDOW WALL (LMI)

GLOBAL PERFORMANCE WINDOWS, INC.
DBA EPYSLON USA
1881 SW 3RD ST POMPANO BEACH FL 33069
TEL: (954) 942-3322 FAX: (954) 942-3215

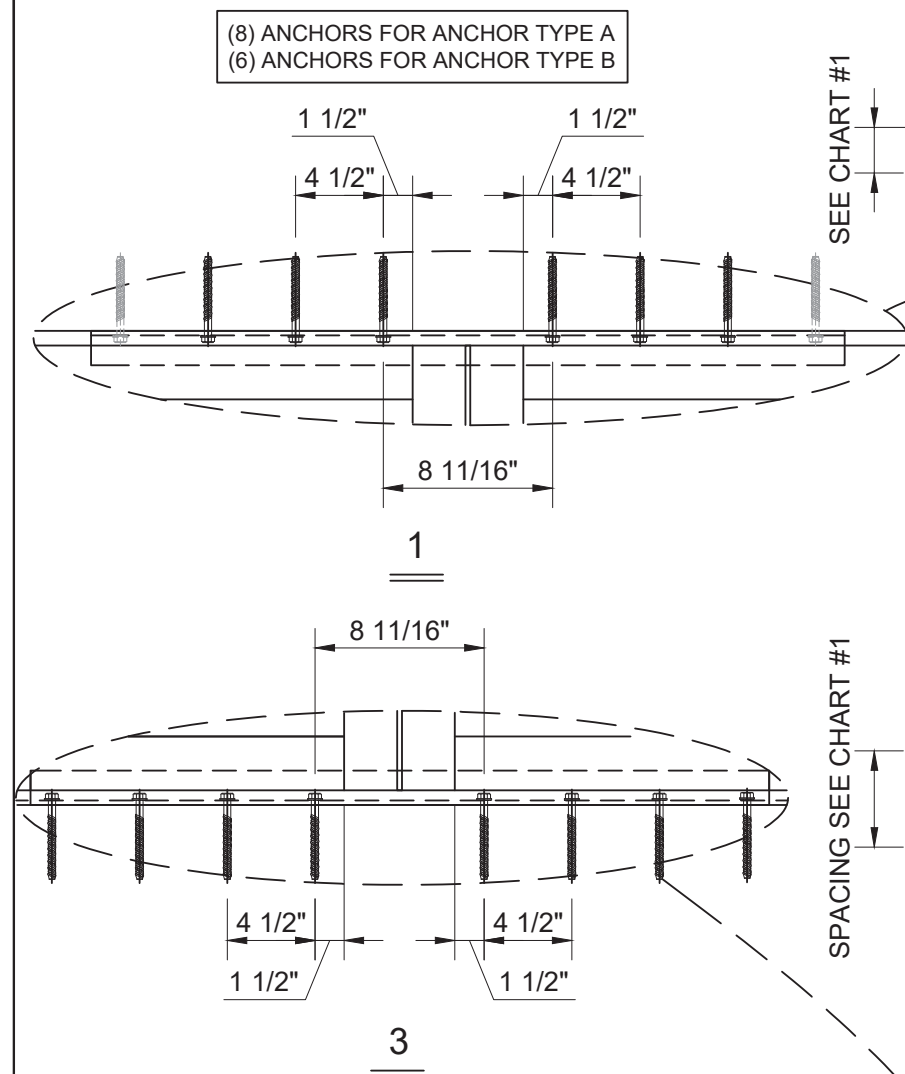
FL#19023.1

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SCALE	AS NOTED
DRAWN	James
PROJECT	17-090

COVER

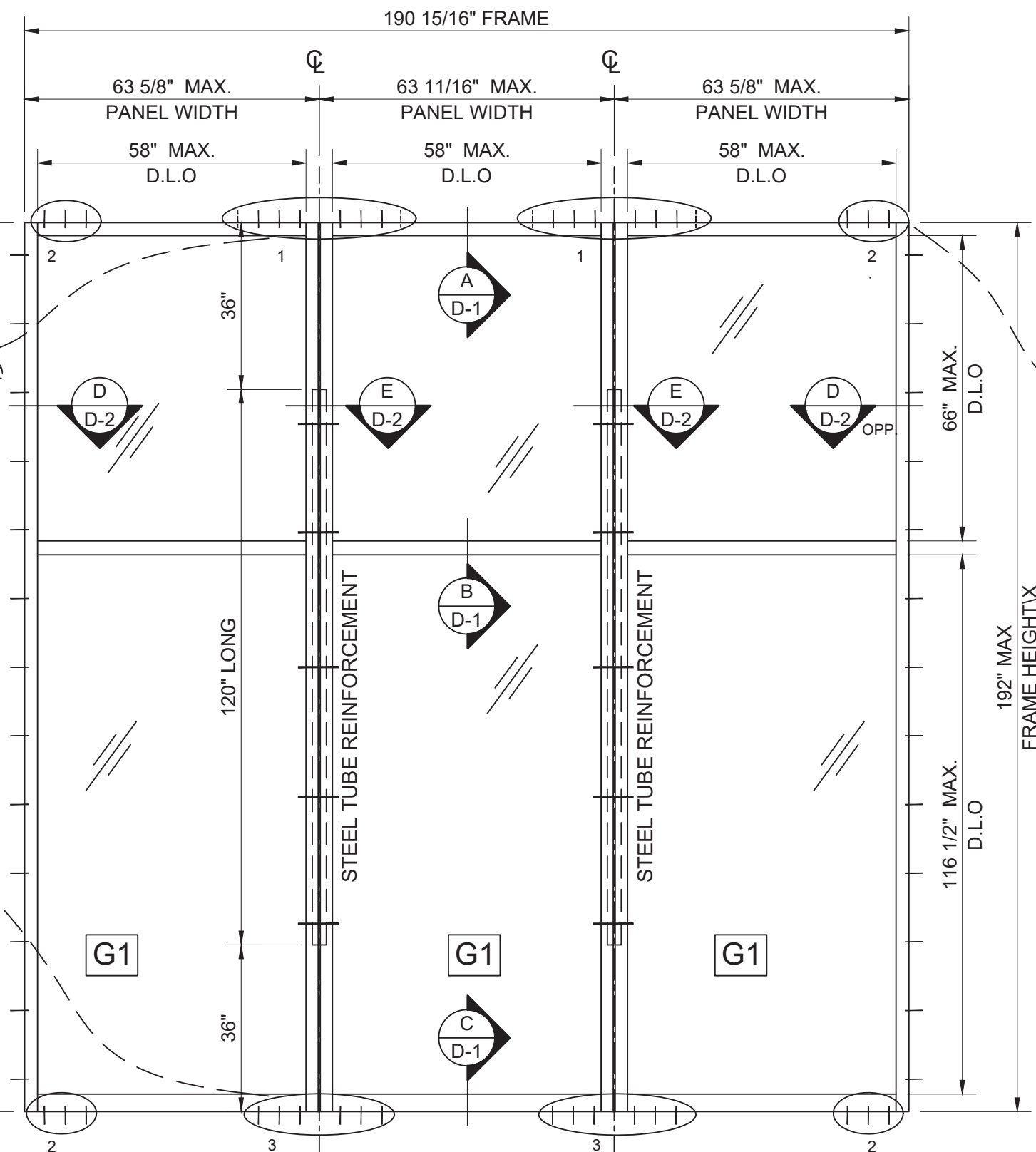
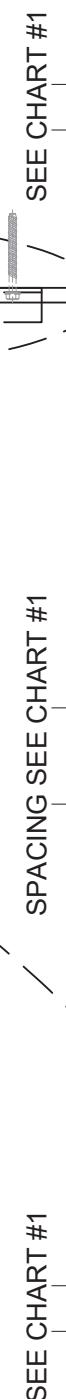
DRAWING NO.
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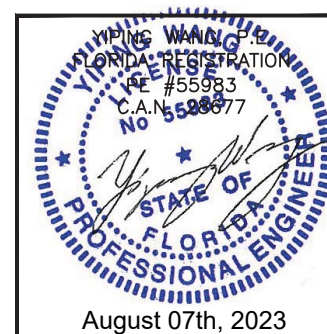
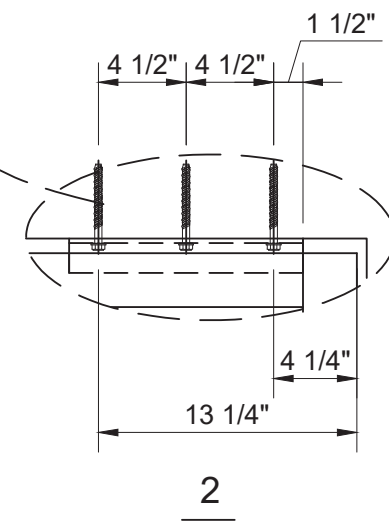
SILL ANCHOR CHART				
ANCHOR TYPE	MAX. SHIM	NUMB.OF ANCHORS EA. SIDE OF MULL		MAX. ALLOWED DESIGN LOAD
AA	3/4"	(3)	PER SIDE	130 psf
A	3/8"	(3)	PER SIDE	130 psf
A	1/2"	(4)	PER SIDE	108.7 psf
A	3/4"	(4)	PER SIDE	78.7 psf
BB	3/4"	(3)	PER SIDE	130 psf
B	3/8"	(3)	PER SIDE	130 psf
B	1/2"	(4)	PER SIDE	116.1 psf
B	3/4"	(4)	PER SIDE	84.0 psf

CHART #1 JAMB ANCHOR LAYOUT			
ANCHOR TYPE	SUBSTRATE	MAX. SPACING	DISTANCE FROM END
C	CONCRETE	15"	7"
	CONCRETE BLOCK	10"	5"
D	METAL STRUCTURE	13"	6"



TYPICAL EXTERIOR ELEVATION

DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+130 PSF
-130 PSF



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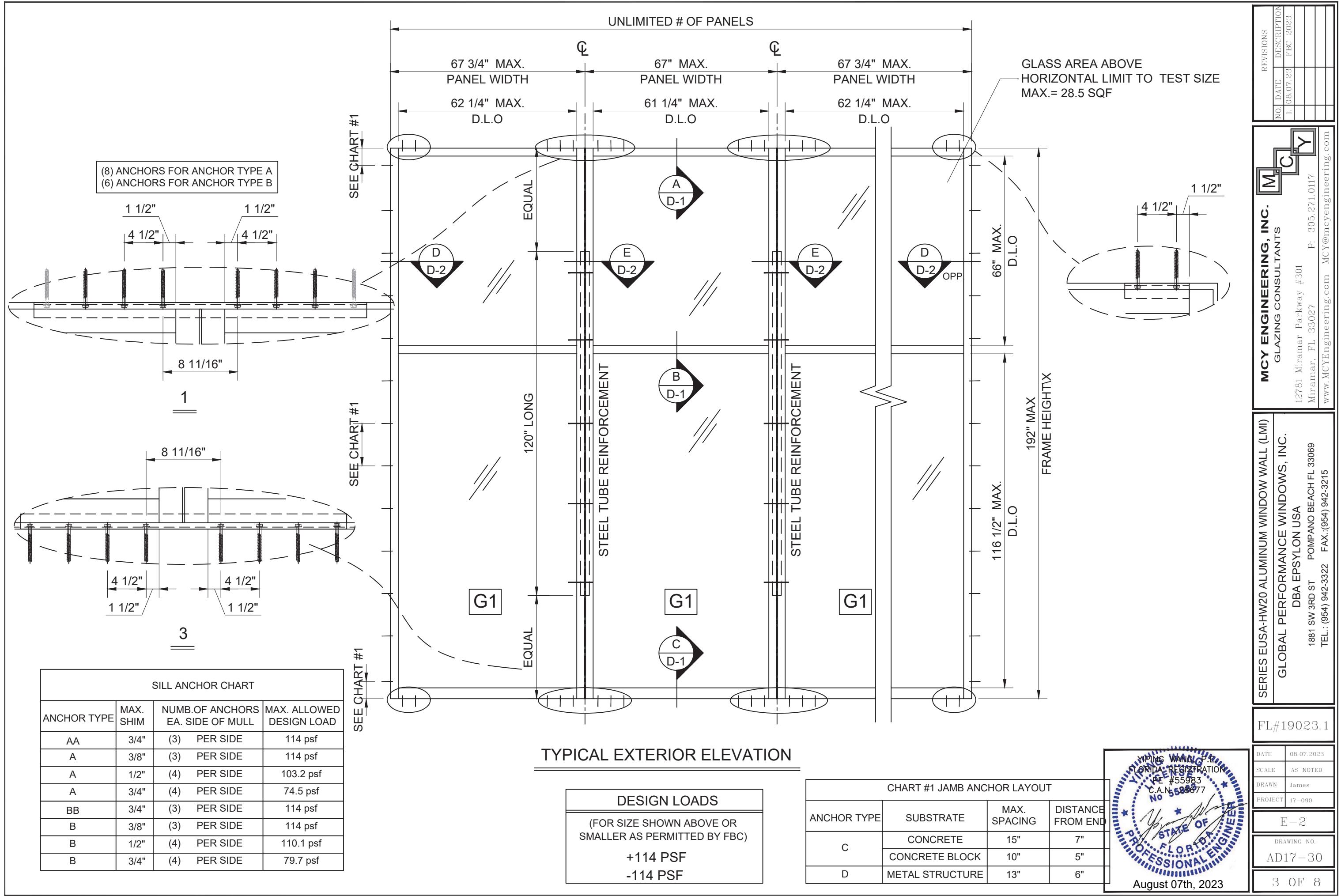
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DRAWN	James
PROJECT	17-090

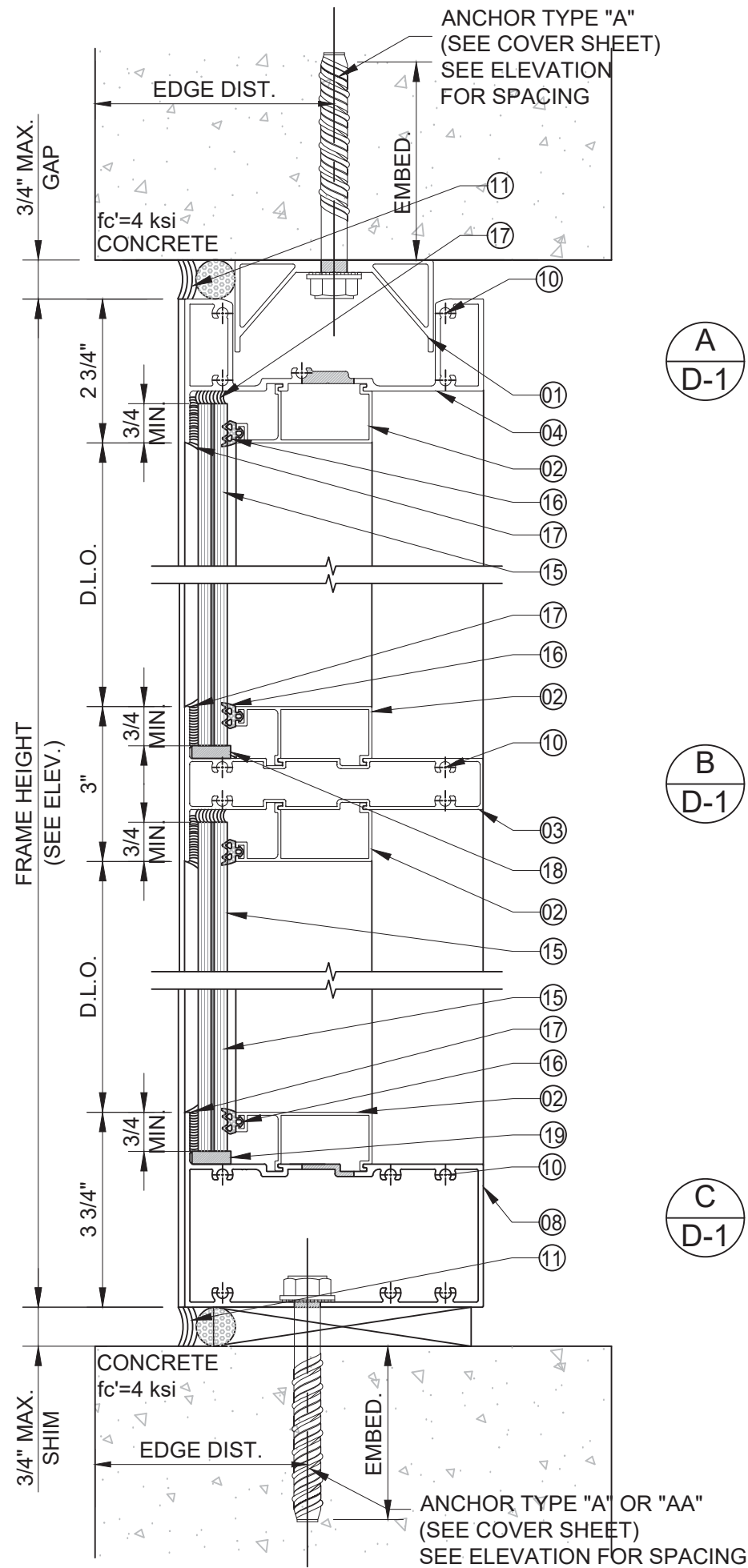
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AD17-30

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EXTERIOR

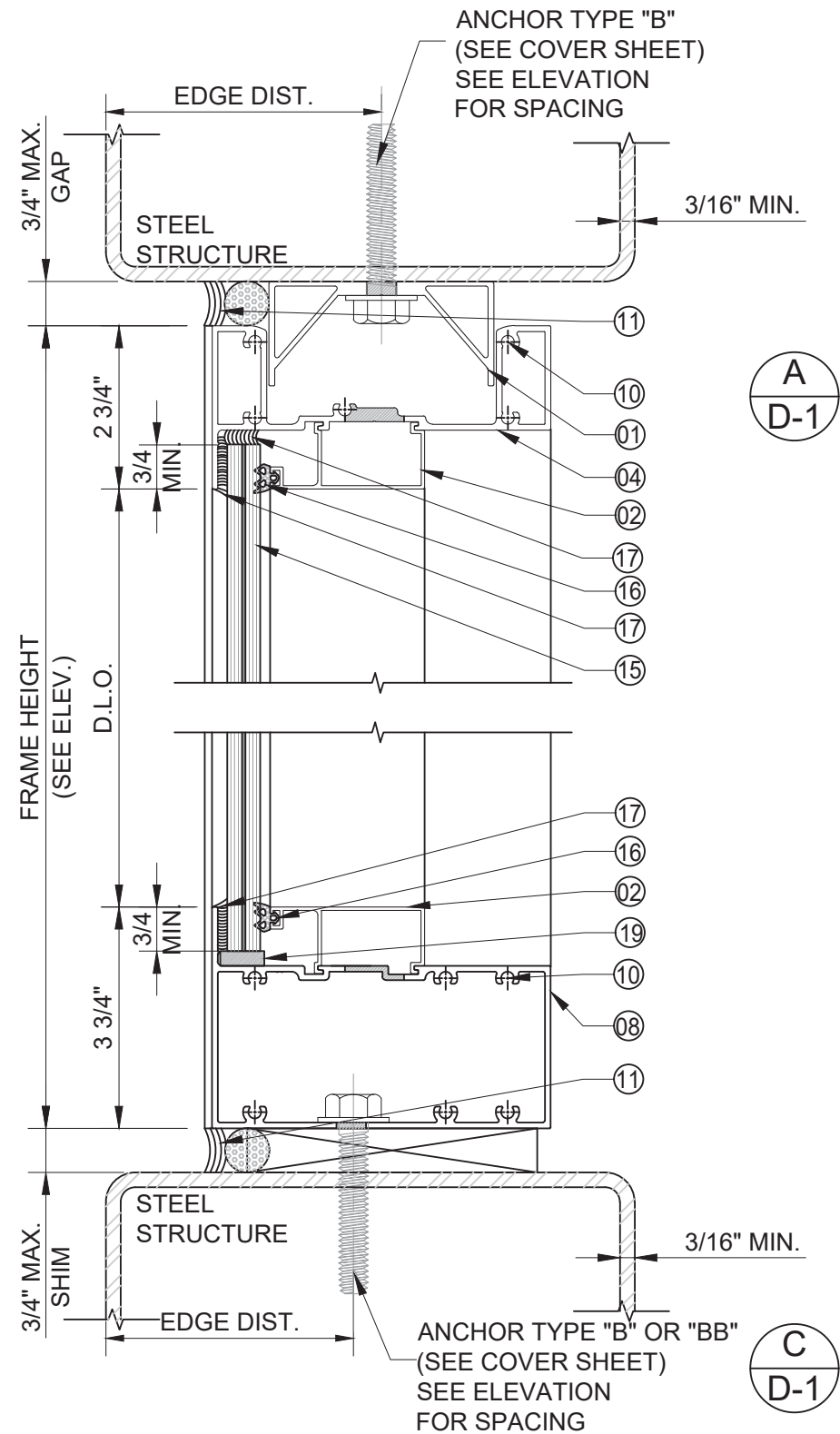


A
D-1

B
D-1

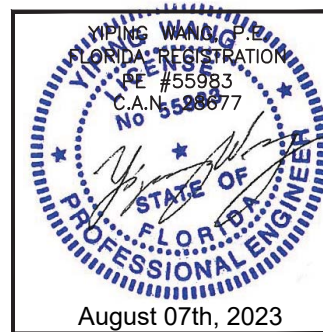
C
D-1

EXTERIOR



A
D-1

C
D-1



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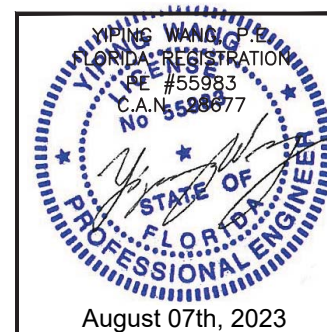
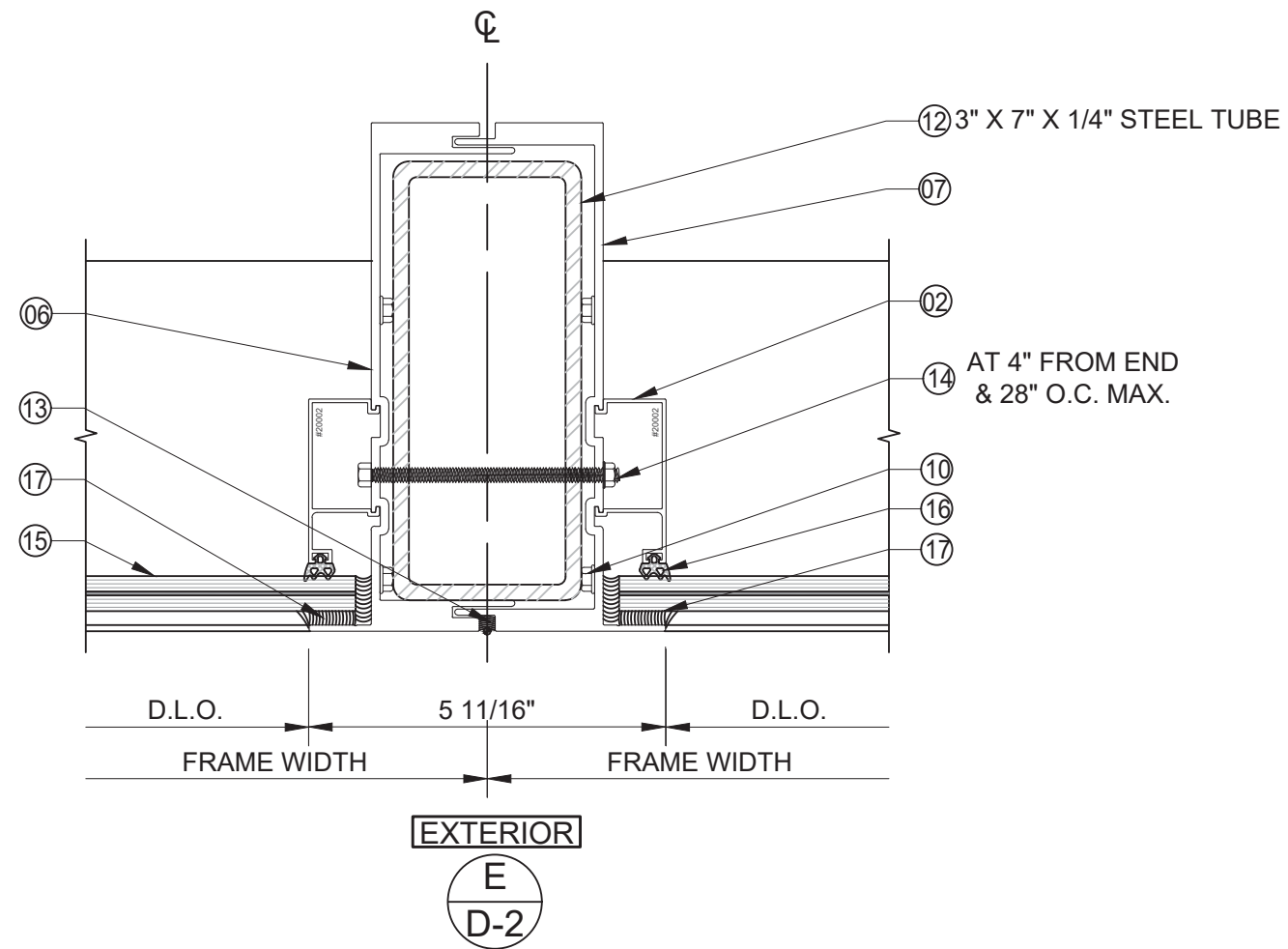
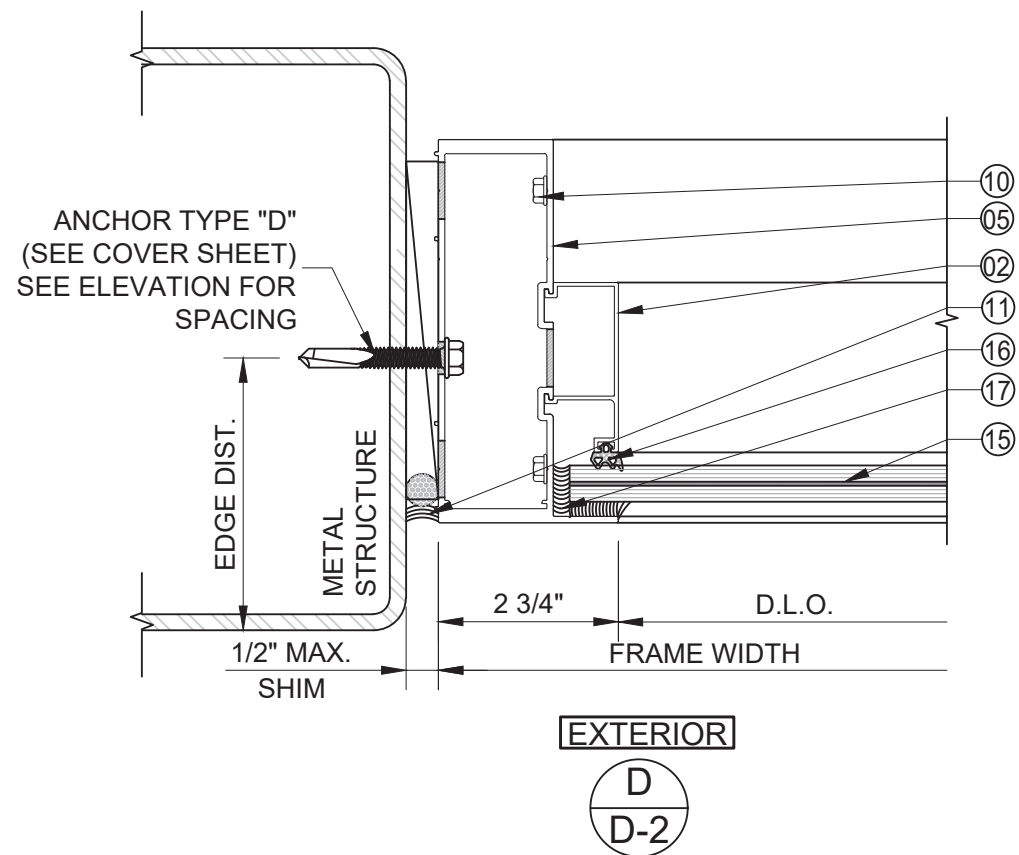
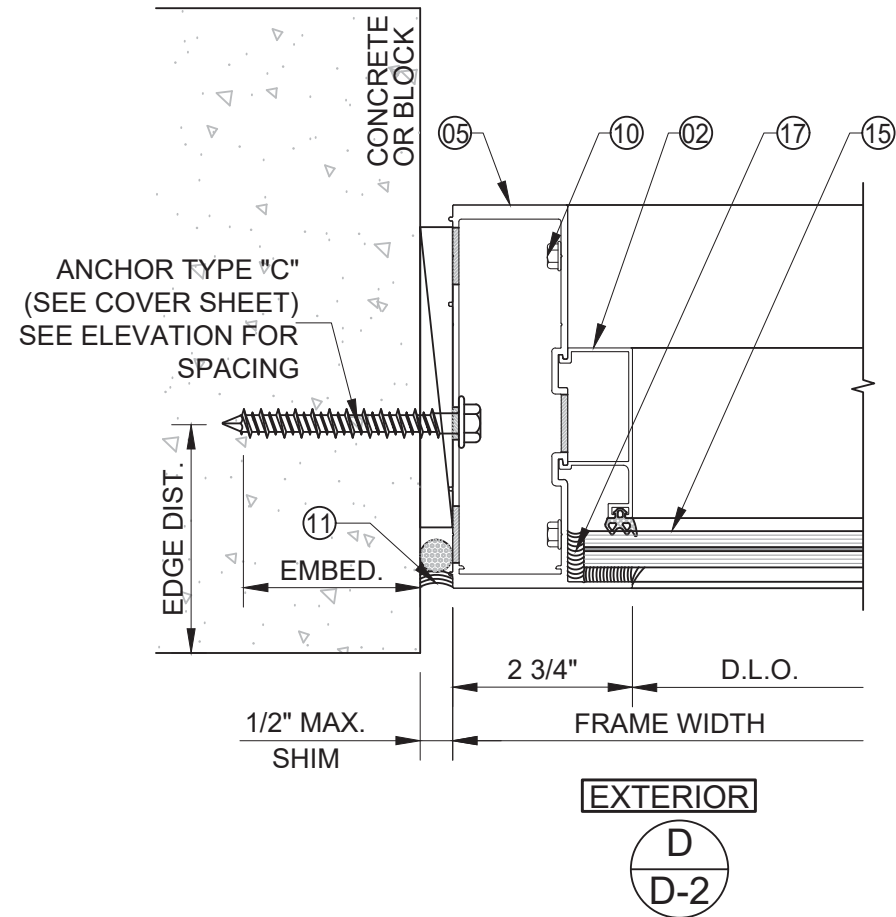
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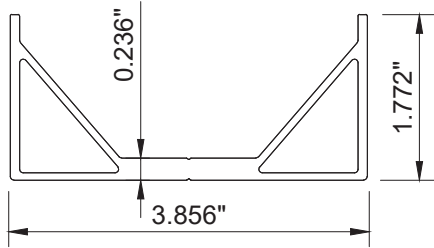
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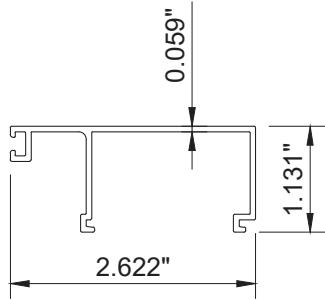
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DRAWING NO.
AD17-30

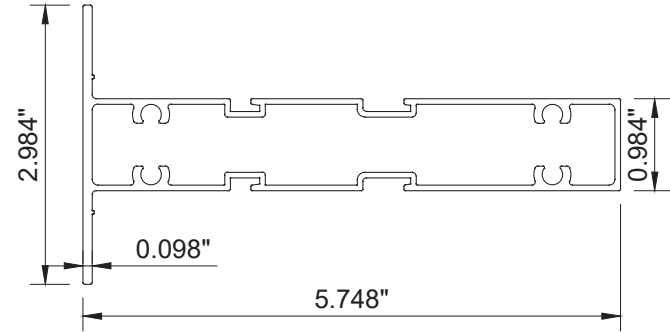
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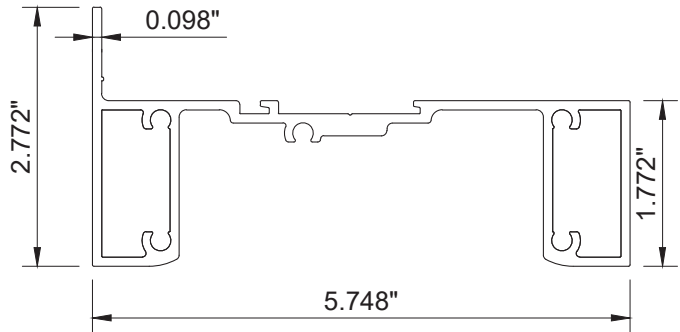
① SLEEVE ANCHOR
(#20001) ALUMINUM 6063-T6



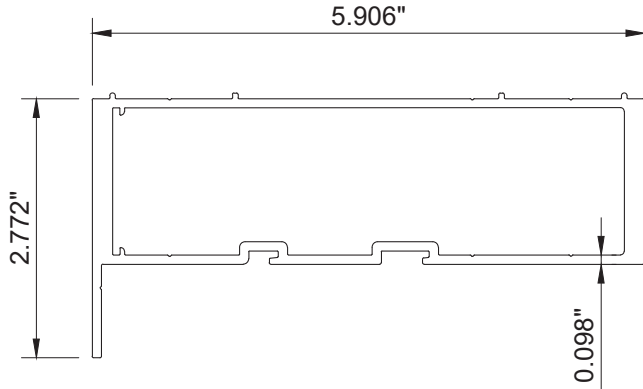
② SNAP-ON CAP
(#20002) ALUMINUM 6063-T6



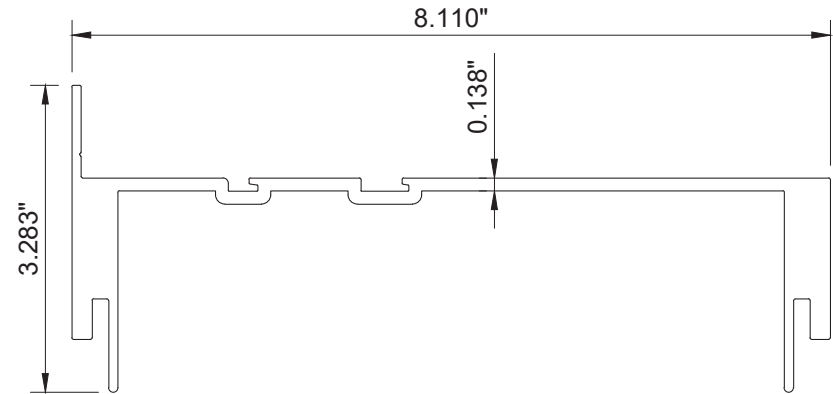
③ HORIZONTAL MULLION
(#20027) ALUMINUM 6063-T6



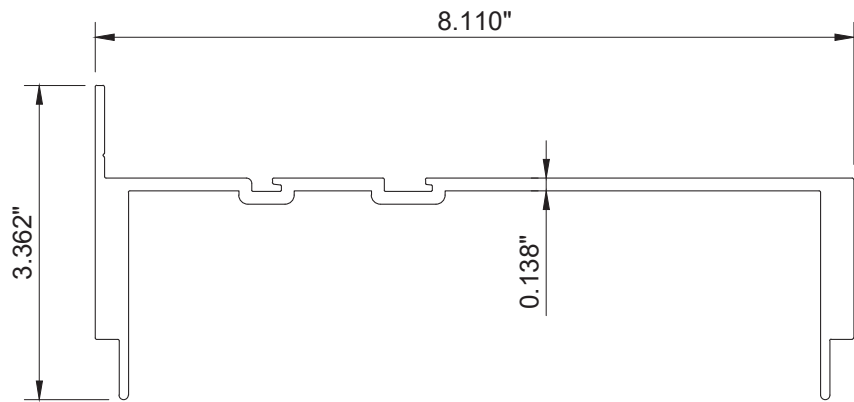
④ FRAME HEAD / SILL
(#20004) ALUMINUM 6063-T6



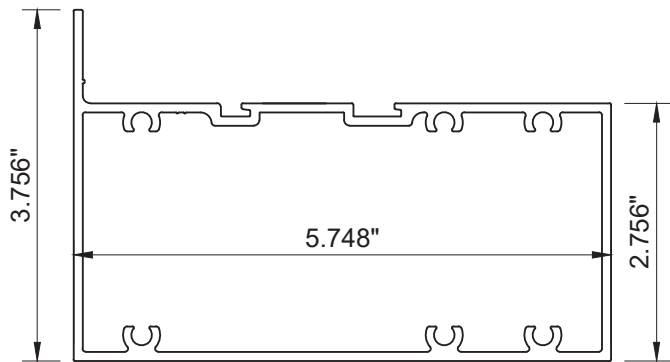
⑤ JAMB
(#20007) ALUMINUM 6063-T6



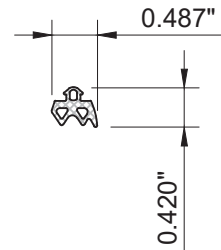
⑥ SPLIT MULLION (FEMALE)
(#20028) ALUMINUM 6063-T6



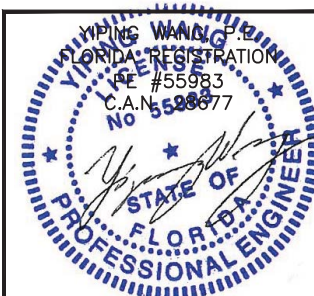
⑦ SPLIT MULLION (MALE)
(#20029) ALUMINUM 6063-T6



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

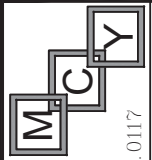


⑬ GASKET - TREMCO
(#91501) EPDM



August 07th, 2023

REVISIONS	
NO	DATE DESCRIPTION
1	08.07.23 FBC 2023



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PROJECT	17-090

EXTRUSIONS

DRAWING NO.
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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	20024	ALUMINUM SPLIT MULLION (REINFORCEMENT)	ALUM. 6063-T6	METRA ALUMINUM INC
10	---	#14 HH SMS SS ASSEMBLY SCREWS - 1 1/2" LONG	ST/ST	---
11	---	BACKER ROD & SPECTREM II SEALANT	---	TREMCO
12	---	3" X 7" X 1/4" STEEL TUBE, 10' LONG, LOCATED AT MID SPAN	STEEL	ASTM A50, Fy= 46 Ksi
13	---	SPECTREM II SEALANT	---	TREMCO
14	---	#14-20 THRU BOLT W/ NUTS AND LOCK WASHER - 4" LONG @ 56" FROM MULL. ENDS & 20" O.C.	ST/ST	---
15	---	(9/16") 1/4" H.S. + 0.090" SENTRYGLAS PLUS INTERLAYER BY DUPONT CO. + 1/4" H.S.	---	---
16	91501	GASKET - TREMCO	EPDM DURO 60	TREMCO
17	---	PROGLAZE II (TREMCO)	SILICONE	TREMCO
18	---	SCR SETTING BLOCK @ 1/8 POINTS	RUBBER	---
19	---	POLYSHIM 1/4" X 1/2"	---	---

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BOM

DRAWING NO.
AD17-30

7 OF 8

YOUNG WANG & ASSOCIATES, P.C.

FLORIDA REGISTRATION

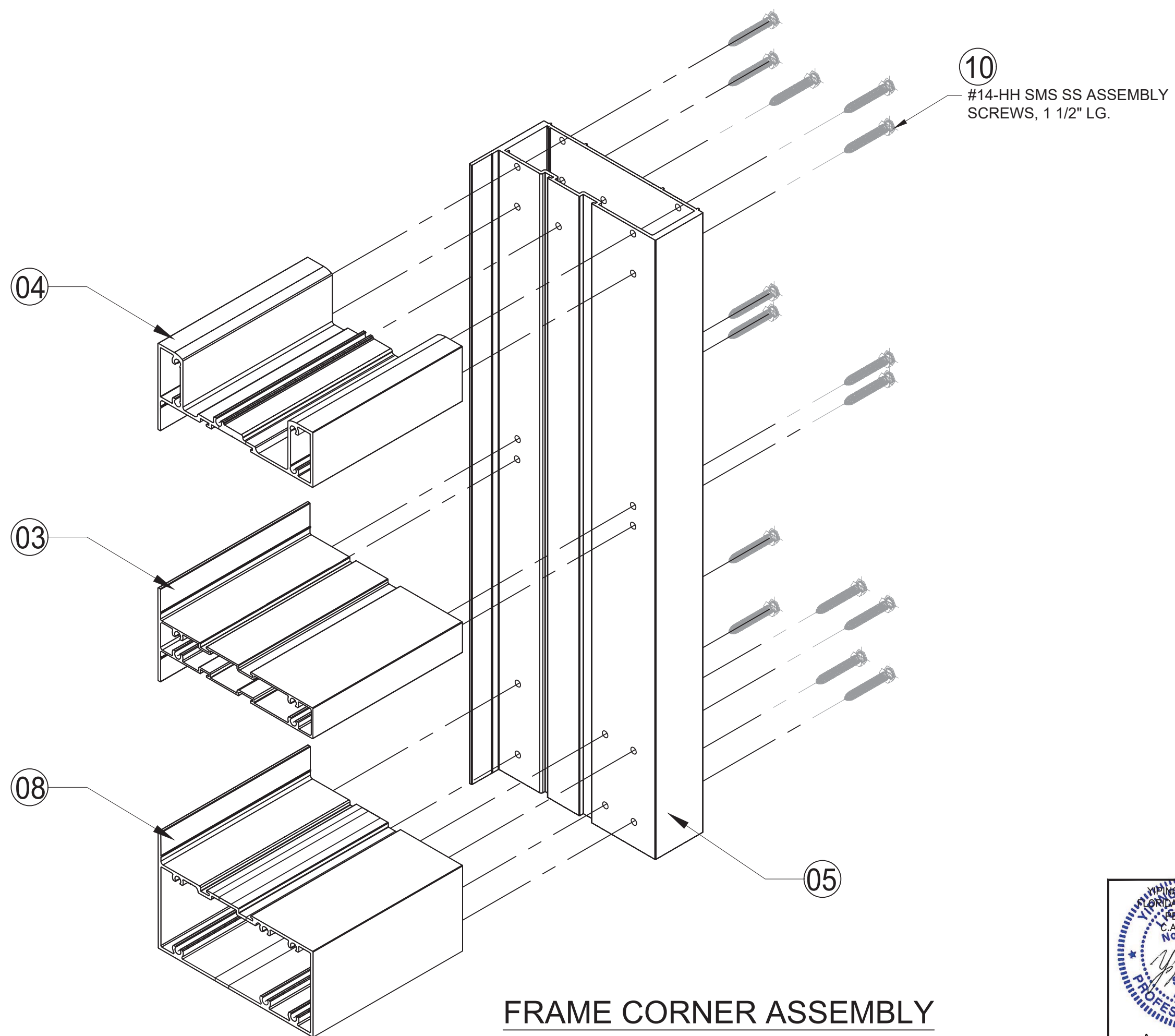
PE #55983

C.A.N. #558877

STATE OF FLORIDA

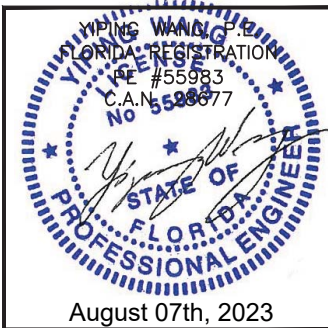
PROFESSIONAL ENGINEER

August 07th, 2023

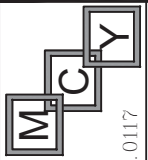


10
#14-HH SMS SS ASSEMBLY
SCREWS, 1 1/2" LG.

FRAME CORNER ASSEMBLY



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