

GLOBAL PERFORMANCE WINDOWS INC.
DBA. EPSYLON USA
ALUMINUM WINDOW-WALL SERIES EUSA WW20

SMALL MISSILE IMPACT (SMI)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2020 (7TH EDITION)/ 2023 (8TH EDITION) 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 2020 (7TH EDITION)/ 2023 (8TH EDITION) FLORIDA BUILDING CODE SECTION AS APPLICABLE.
- 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.

- 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.

-TYPICAL ANCHORS: (SEE ELVEVATIONS FOR SPACING)

A) 5/16" DIA. 'DEWALT' ULTRACON (Fu = 177 KSI, Fy = 155 KSI)
1-3/4" MIN. EMBED DIRECTLY INTO CONCRETE (4KSI MIN.)
AT 4 1/2" MIN. O.C.

ANCHOR EDGE DISTANCE
INTO CONCRETE = 3 1/2" MIN

B) 5/16" DIA. 'ELCO' TEKS INTO METAL STRUCTURE ($F_u = 120$ KSI, $F_y = 92$ KSI)
STEEL: 3/16" MIN. THK. A36 MIN.
STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED)

ANCHOR EDGE DISTANCE
INTO METAL = 1" 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 HERE. HE 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

SERIES WW20-SMI

FLORIDA APPROVAL NUMBER

FL#19019.2



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12871 MIRAMAR PARKWAY #301
MIRAMAR, FL. 33027

P: (305) 271-0

www.MCYEngineering.com mcy@mcyengineering.com

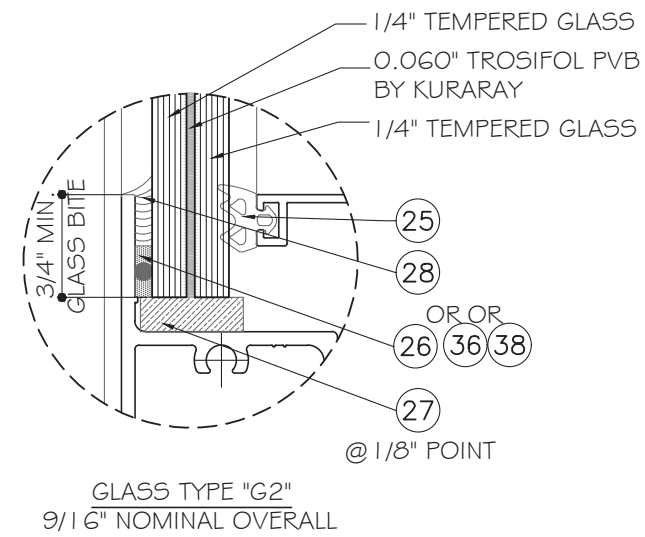
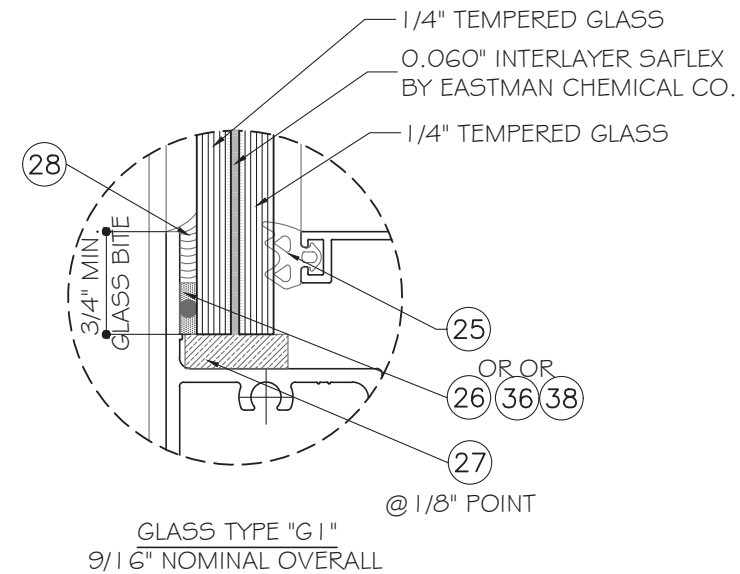
SERIES WW20 WINDOW WALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.
DBA. EPSYLON USA
1881 SW 3ST POMPANO BEACH, FL 33069
TEL. (954)-942-3322

						FBC 2023	Description
						08.07.23	Date
						03	Rev. No.
Drawn Date 08/07/23						Scale	
DRAWING NO. AD19-26							
COVER							
Sheet No. 1 OF 18							

August 07th, 2023

GLASS OPTIONS



	GLASS SIZE		MAX. GLASS	DESIGN LOADS (PSF)	
	MAX. WIDTH	MAX. HEIGHT			
GLASS TYPE	D.L.O.	D.L.O.	AREA (FT2)	+	-
G1	50 3/16"	137 3/4"	48.0	60	60
G2	50 3/16"	137 3/4"	48.0	60	60

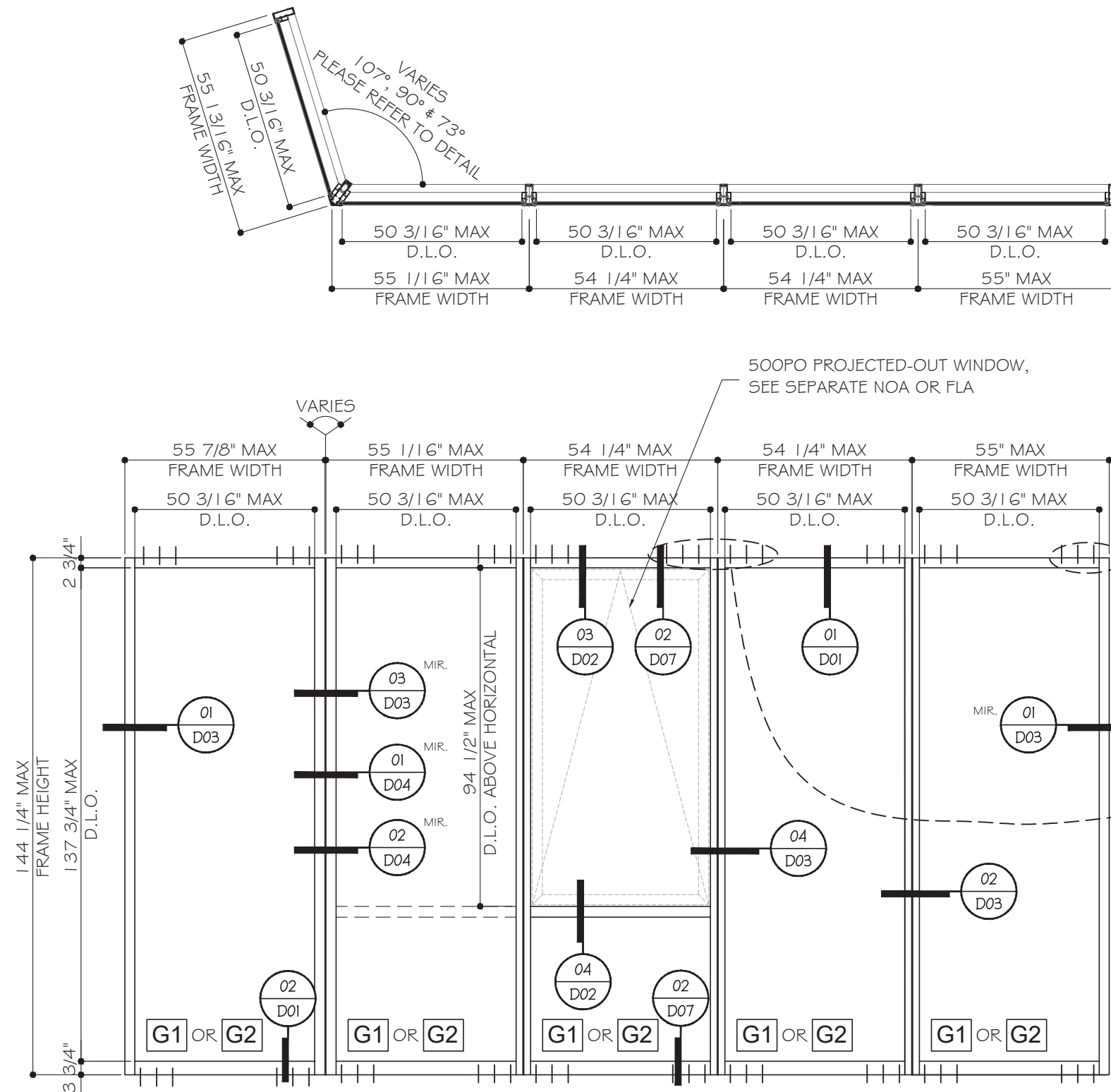
$$\text{AREA} = \text{D.L.O.W.} * \text{D.L.O.H.}$$

NOTE:
GLASS COMPLIES WITH ASTM E 1300-09 (3 SEC. GUSTS)

SERIES WW20-SMI			
FLORIDA APPROVAL NUMBER FL#19019.2			
YIYING WANG FLORIDA REGISTRATION PE #55983 C.A.N. 28627			
Drawn Date 08/07/23		Scale	
DRAWING NO. AD19-26		G1	
Sheet No. 2 OF 18		Date 08/07/23	
Rev. No. 03		FBO	

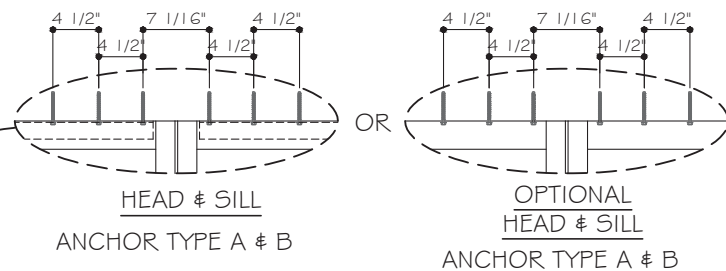
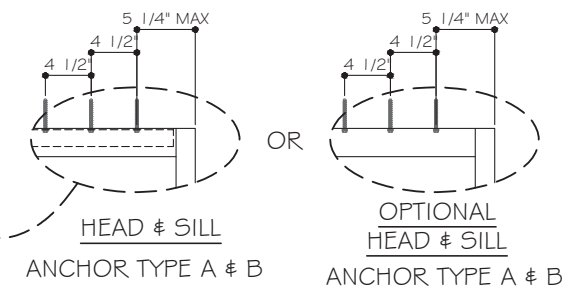
~~August 07th, 2023~~

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DESIGN LOADS	
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)	
+60 PSF	
-60 PSF	

TYPICAL EXTERIOR ELEVATION (UNREINFORCED)
(SEE SHEET M1 FOR SECTION PROPERTIES)



SERIES WW20-SMI

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FL#19019.2

YIPING WANG
FLORIDA REGISTRATION
PE #55883
O.A.N. 28677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

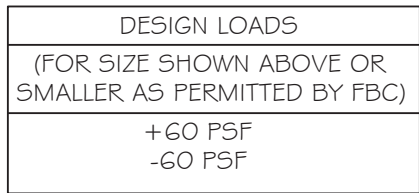
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SERIES WW20 WINDOW WALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.
DBA: EPSYLON USA
1881 SW 3ST POMPANO BEACH, FL 33069
TEL: (954)-942-3322

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E1				
Sheet No. 3 OF 18				



SERIES WW20-SMI

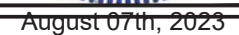
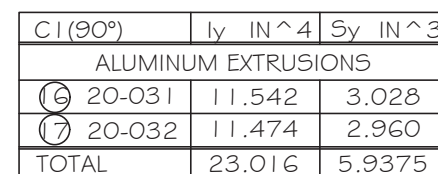
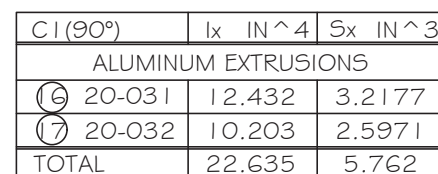
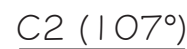
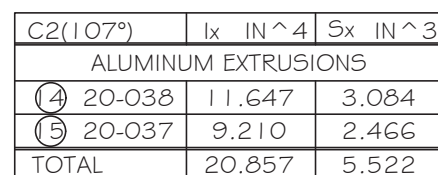
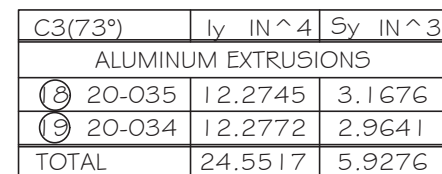
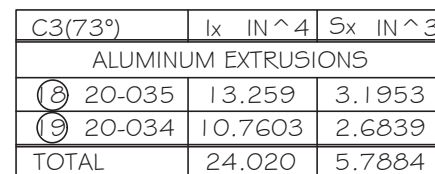
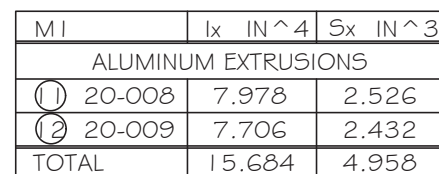
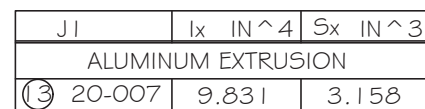
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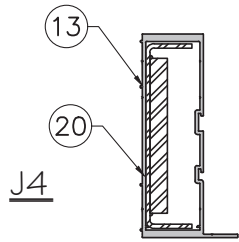
FL#19019.2

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FLORIDA REGISTRATION
PE# 55983
C.A.N. 28677

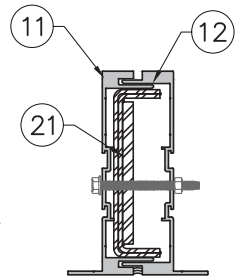


		MCY ENGINEERING, INC. GLAZING CONSULTANTS 12871 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: (305) 271-0117 www.MCYEngineering.com mcy@mcyengineering.com	
SERIES WW20 WINDOWALL SYSTEM - SMI GLOBAL PERFORMANCE WINDOW INC. DBA. EPSYLON USA 1881 SW 3ST POMPAÑO BEACH, FL 33069 TEL. (954)-942-3322			
Drawn Date 08/07/23	Scale	03 08.07.23	FBC 2023
DRAWING NO. AD19-26		Rev. No.	Description
E2 Sheet No.		4 OF 18	

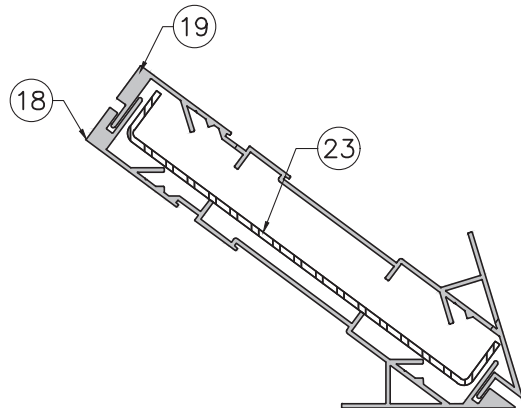




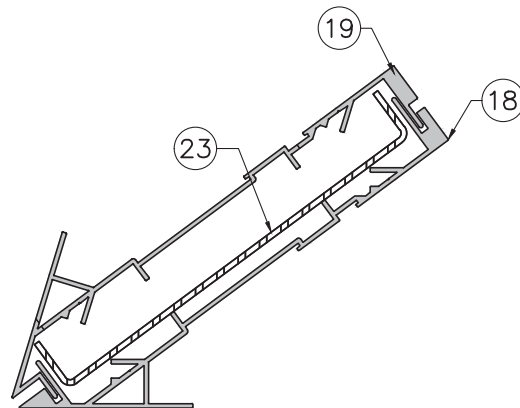
J4	I _x IN ⁴	S _x IN ³
ALUMINUM EXTRUSION		
(13) 20-007	9.831	3.158
(20) STEEL REINF.		
1.313"x5.375"x1/8" STL CHANNEL	3.522	1.311
4.5"x1/2" STL. BAR	3.797	1.688
TOTAL	31.057	(IN ALUM.)



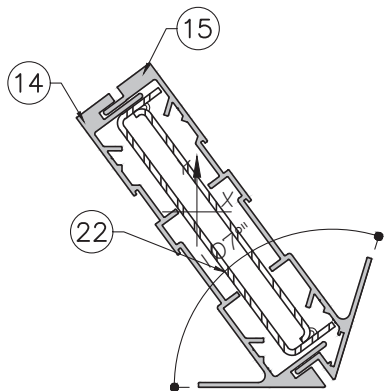
M4	I _x IN ⁴	S _x IN ³
ALUMINUM EXTRUSIONS		
(1) 20-008	7.978	2.526
(2) 20-009	7.706	2.432
(21) STEEL REINF.		
4.125"x5/16" STL. BAR	1.828	0.886
4.613"x1.125"x0.125" STL U CHANNEL	2.191	0.948
4.875"x1.125"x0.125" STL U CHANNEL	2.677	1.098
TOTAL	35.102	(IN ALUM.)



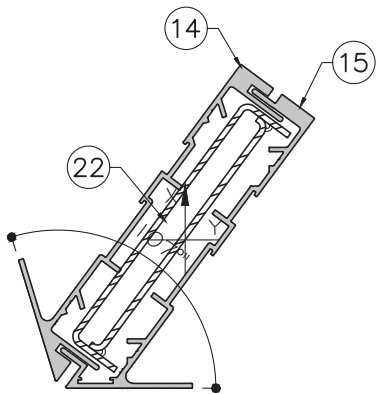
C35(73°)	I _x IN ⁴	S _x IN ³
ALUMINUM EXTRUSIONS		
(8) 20-035	13.259	3.1953
(9) 20-034	10.7603	2.6839
(23) STEEL REINF.		
23 STL REINFORCING	5.286	1.434
TOTAL	39.349	(IN ALUM.)



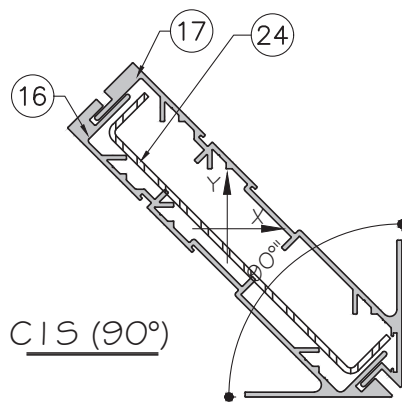
C35(73°)	I _y IN ⁴	S _y IN ³
ALUMINUM EXTRUSIONS		
(8) 20-035	12.2745	3.1676
(9) 20-034	12.2772	2.9641
(23) STEEL REINF.		
23 STL REINFORCING	5.286	1.434
TOTAL	39.881	(IN ALUM.)



C25(107°)	I _x IN ⁴	S _x IN ³
ALUMINUM EXTRUSIONS		
(4) 20-038	11.647	3.084
(5) 20-037	9.210	2.466
(22) STEEL REINF.		
22 STL REINFORCING	5.7241	1.8167
TOTAL	37.456	(IN ALUM.)



C25(107°)	I _y IN ⁴	S _y IN ³
ALUMINUM EXTRUSIONS		
(4) 20-038	11.037	3.126
(5) 20-037	10.154	2.736
(22) STEEL REINF.		
22 STL REINFORCING	5.7241	1.8167
TOTAL	37.794	(IN ALUM.)



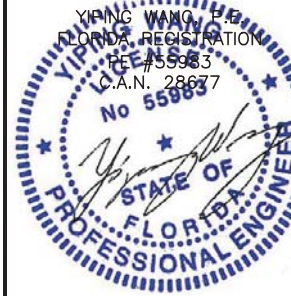
C15(90°)	I _x IN ⁴	S _x IN ³
ALUMINUM EXTRUSIONS		
(6) 20-031	12.432	3.2177
(7) 20-032	10.203	2.5971
(24) STEEL REINF.		
1 1/4"x7 3/4"x0.125" STL U CHANNEL	4.3771	1.2584
TOTAL	35.328	(IN ALUM.)

C15(90°)	I _y IN ⁴	S _y IN ³
ALUMINUM EXTRUSIONS		
(6) 20-031	11.542	3.028
(7) 20-032	11.474	2.960
(24) STEEL REINF.		
1 1/4"x7 3/4"x0.125" STL U CHANNEL	4.3771	1.2584
TOTAL	35.710	(IN ALUM.)

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SERIES WW20 WINDOWALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.

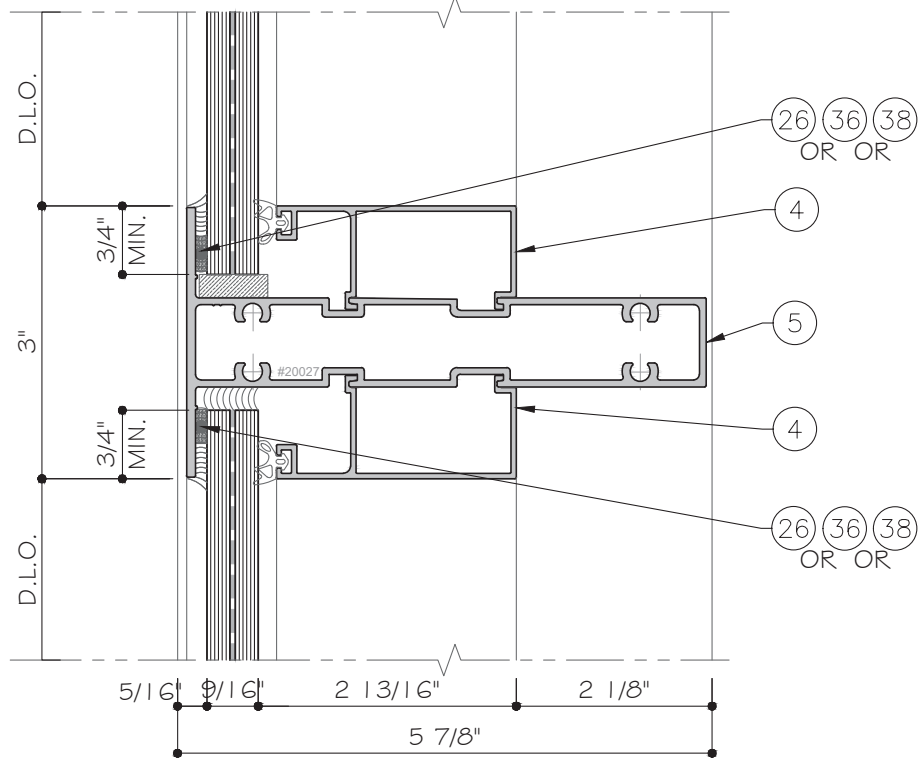
DBA. EPSYLON USA

1881 SW 35TH POMPAHO BEACH, FL 33069

TEL: (954)-942-3322

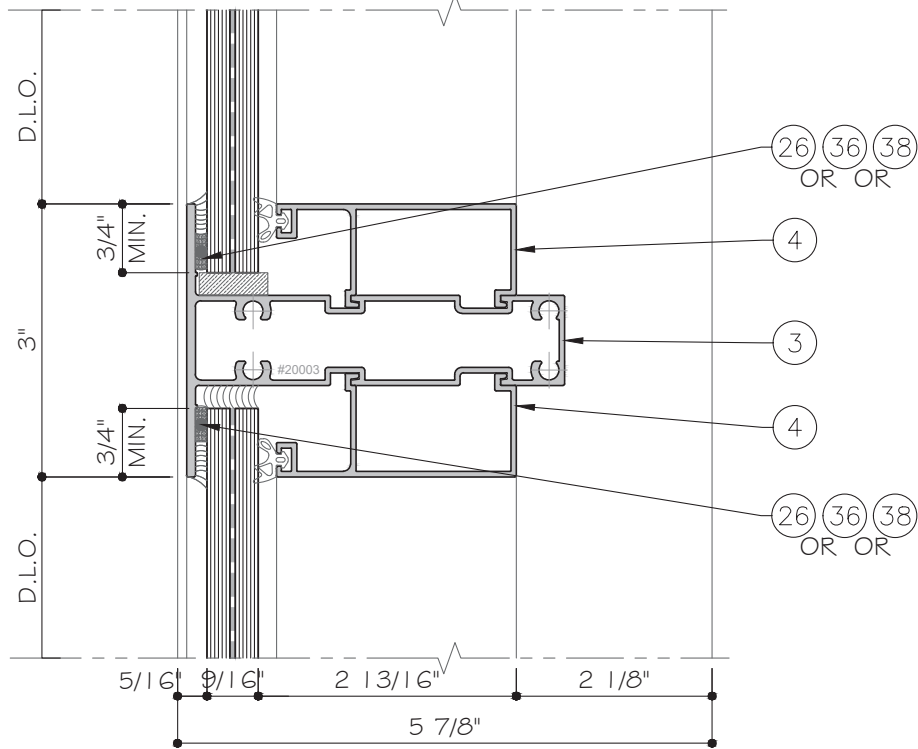
Rev.	Date	Description
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EXTERIOR



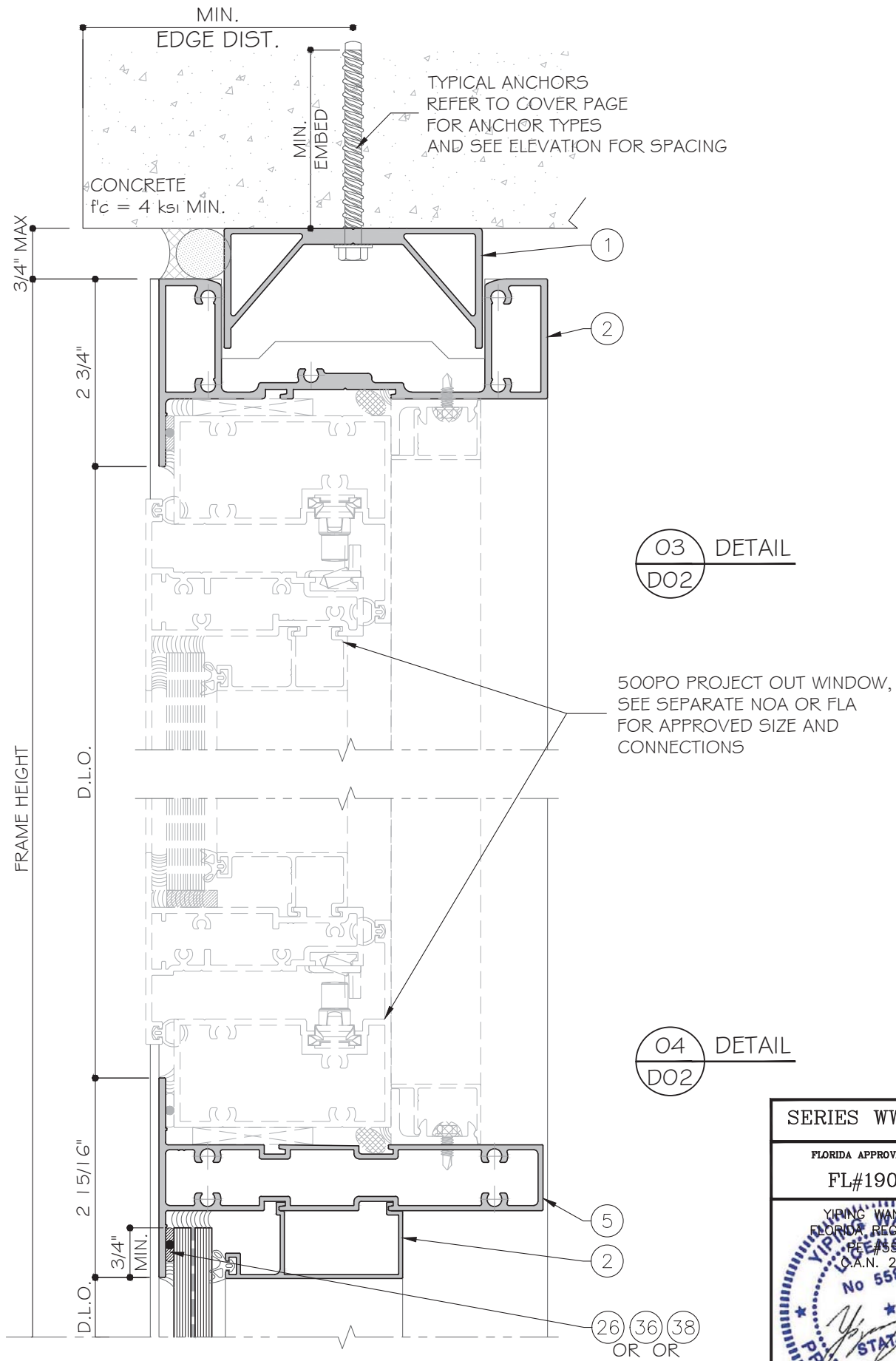
01 DETAIL
D02 OPTIONAL

EXTERIOR



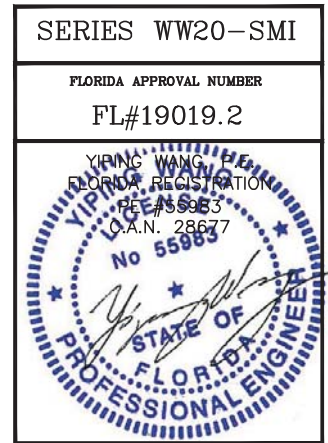
01 DETAIL
D02

EXTERIOR



03 DETAIL
D02

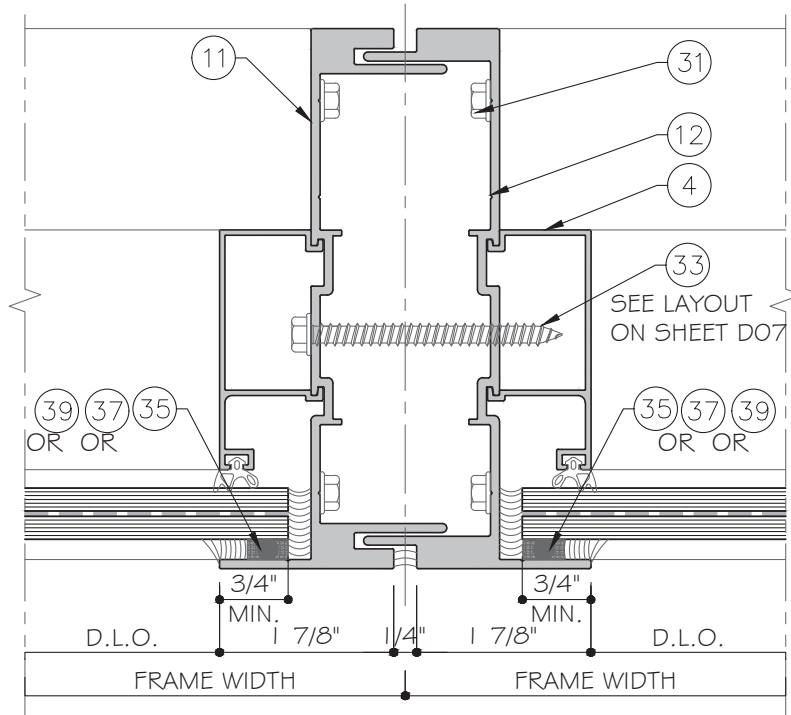
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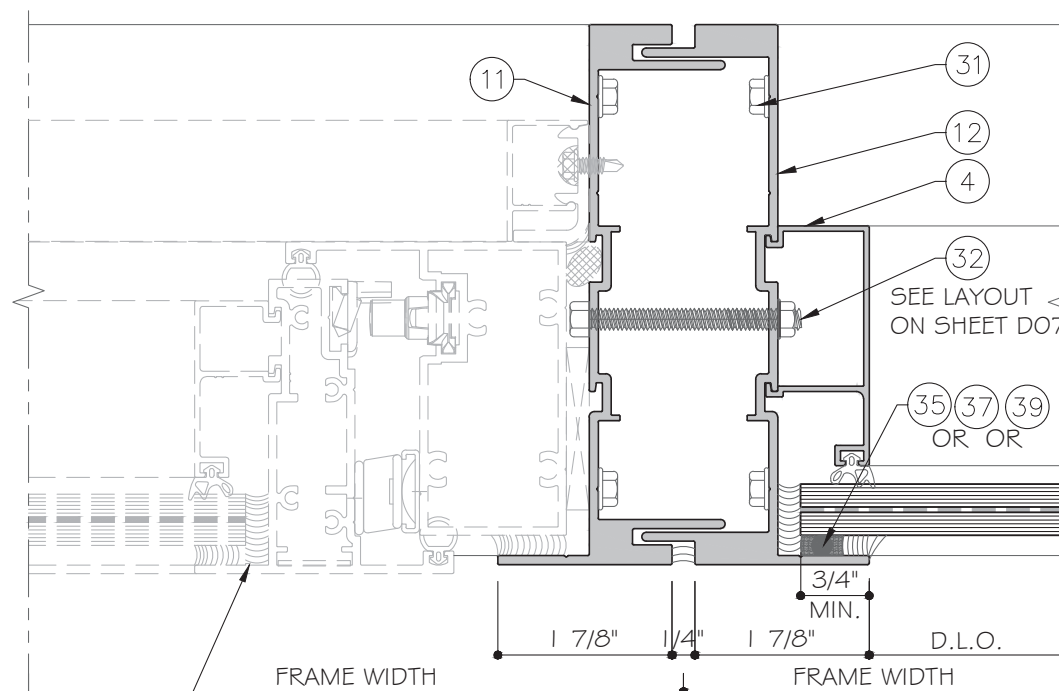
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02 DETAIL
D03 OPTIONAL

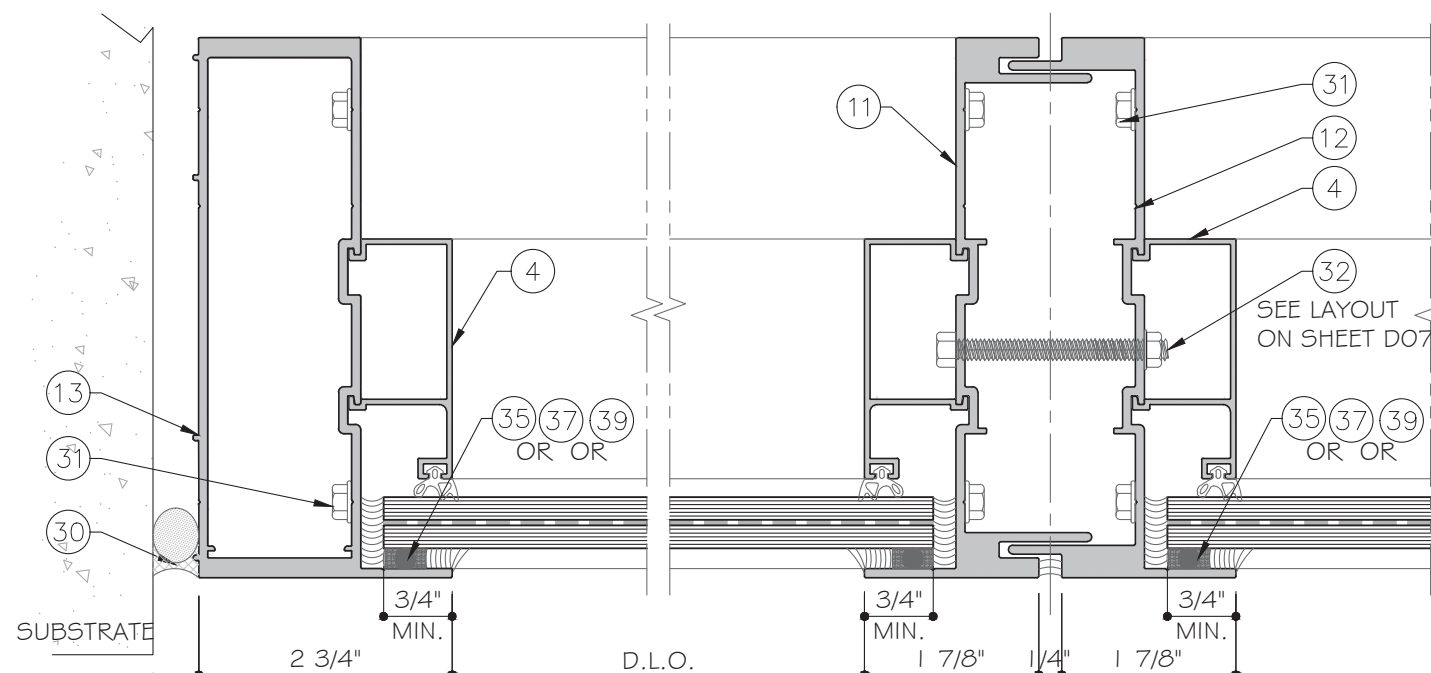


04 DETAIL
D03 OPTIONAL

MAX. FRAME HEIGHT	DC795 OR SPECTRUM 1 OR 2		DC790 OR EQ.	
	GAP(IN)		GAP(IN)	
	MIN.	MAX.	MIN.	MAX.
96"	0.48"	7/8"	0.31"	5/8"
108"	0.54"	7/8"	0.35"	5/8"
120"	0.60"	7/8"	0.38"	5/8"
132"	0.66"	7/8"	0.42"	5/8"
144"	0.72"	7/8"	0.46"	5/8"
156"	0.78"	7/8"	0.50"	5/8"
164"	0.81"	7/8"	0.53"	5/8"

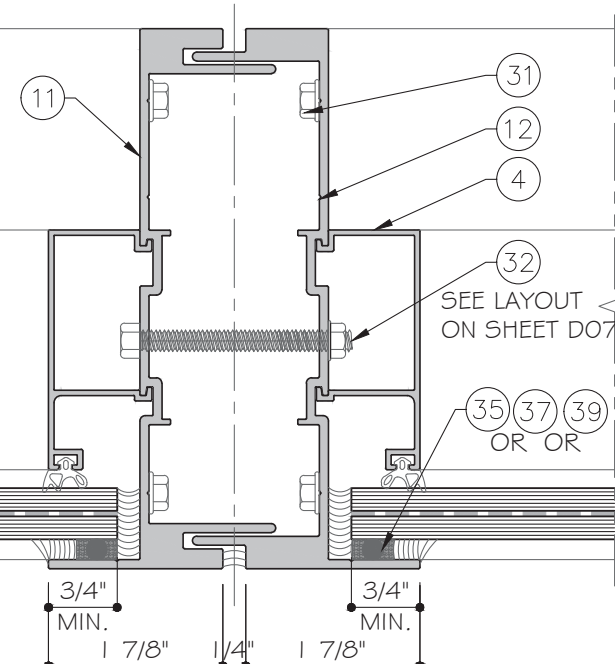
FOR JOB CONDITION CAN BE CHECK BY DESIGNATE ENGINEER ON JOB BASIS.

500PO PROJECT OUT WINDOW, SEE SEPARATE NOA OR FLA FOR APPROVED SIZE AND CONNECTIONS



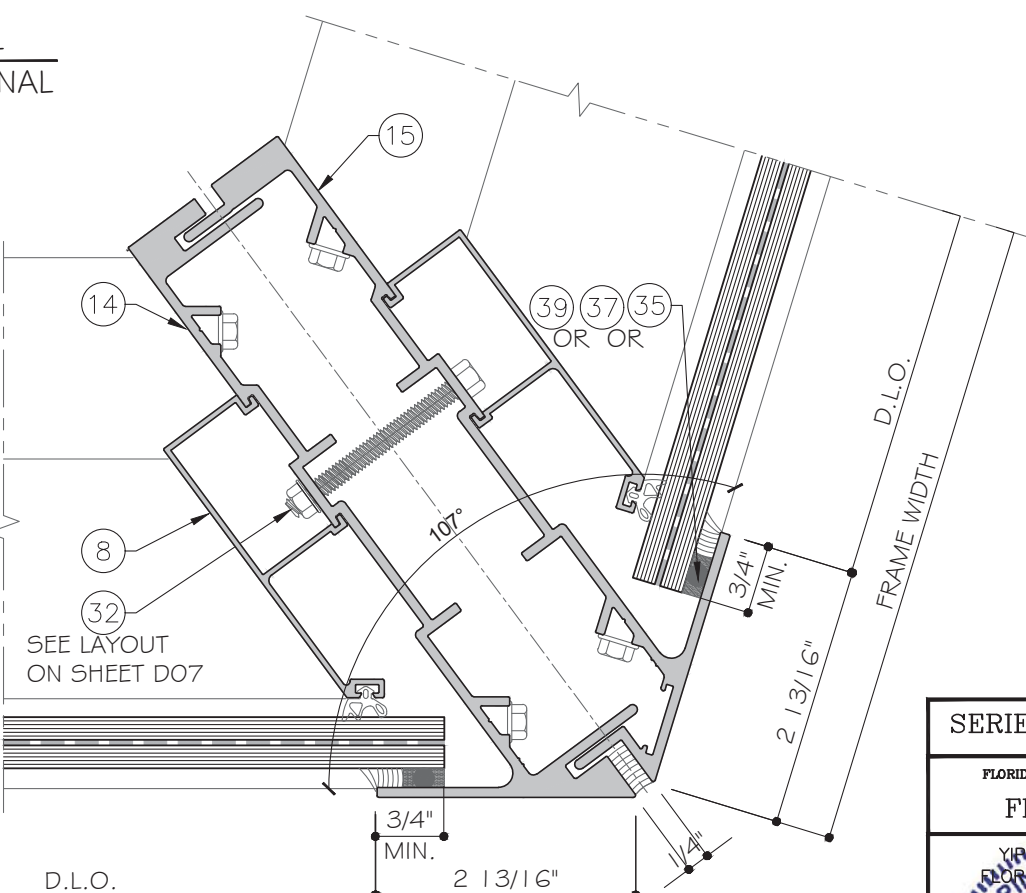
01 DETAIL
D03

EXTERIOR



02 DETAIL
D03

EXTERIOR



03 DETAIL
D03

SERIES WW20-SMI

FLORIDA APPROVAL NUMBER
FL#19019.2

YIPING WANG
FLORIDA REGISTRATION
PE 155983
O.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

SERIES WW20 WINDOWALL SYSTEM - SMI

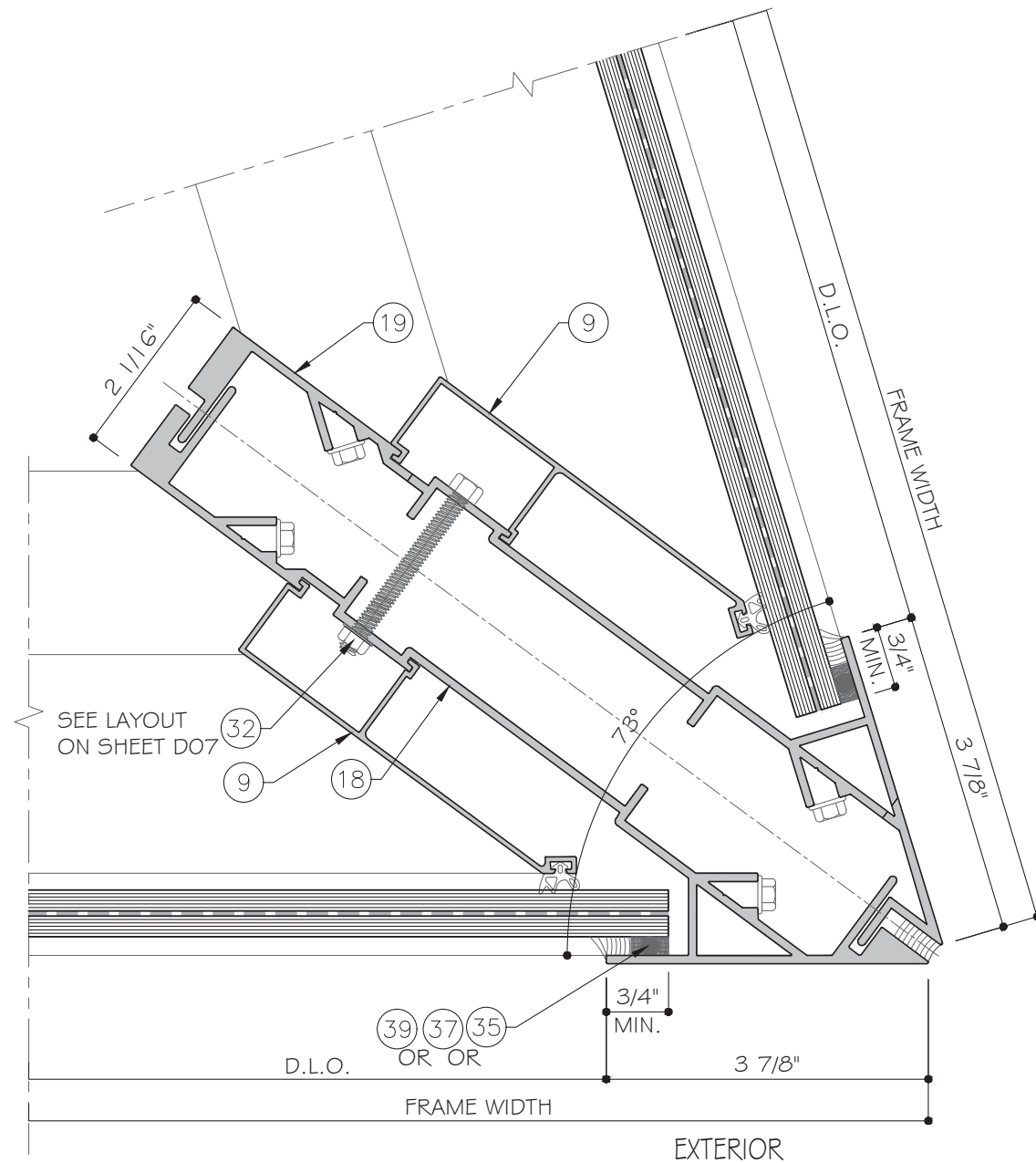
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GLAZING CONSULTANTS

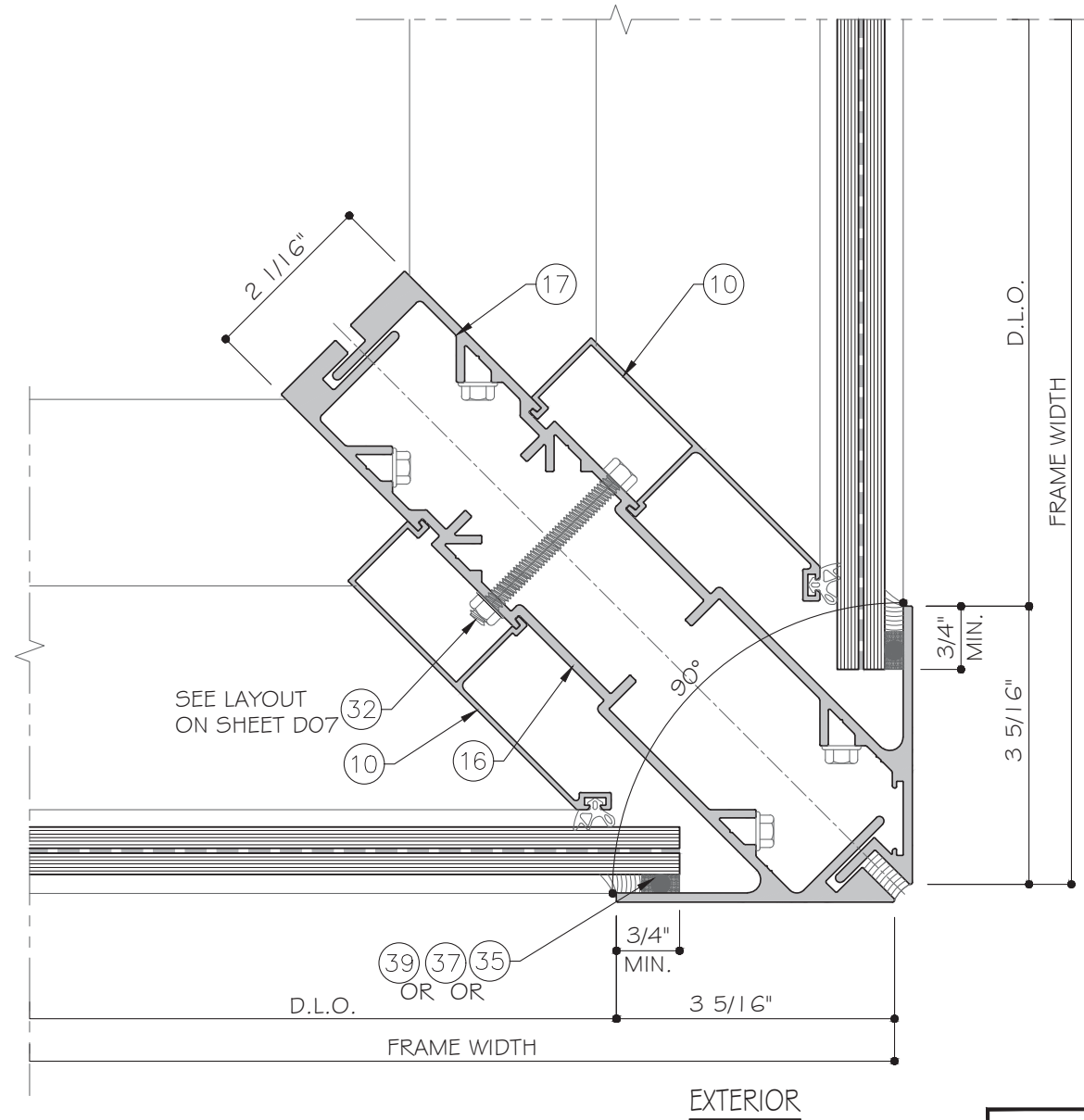
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01 DETAIL
D04



02 DETAIL
D04

SERIES WW20-SMI

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YIPING WANG
FLORIDA REGISTRATION
PE # 15583
O.A.N. 28677

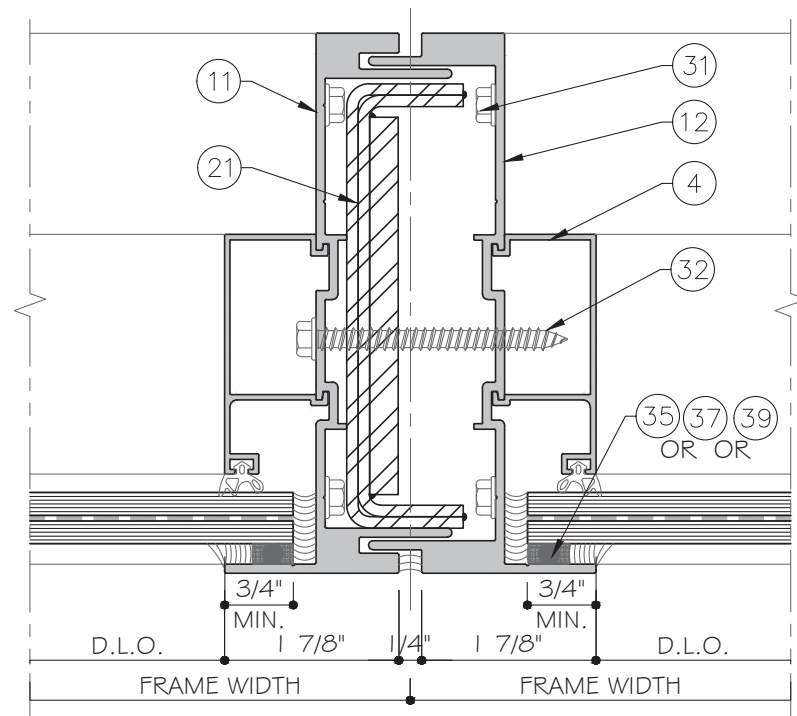
STATE OF FLORIDA
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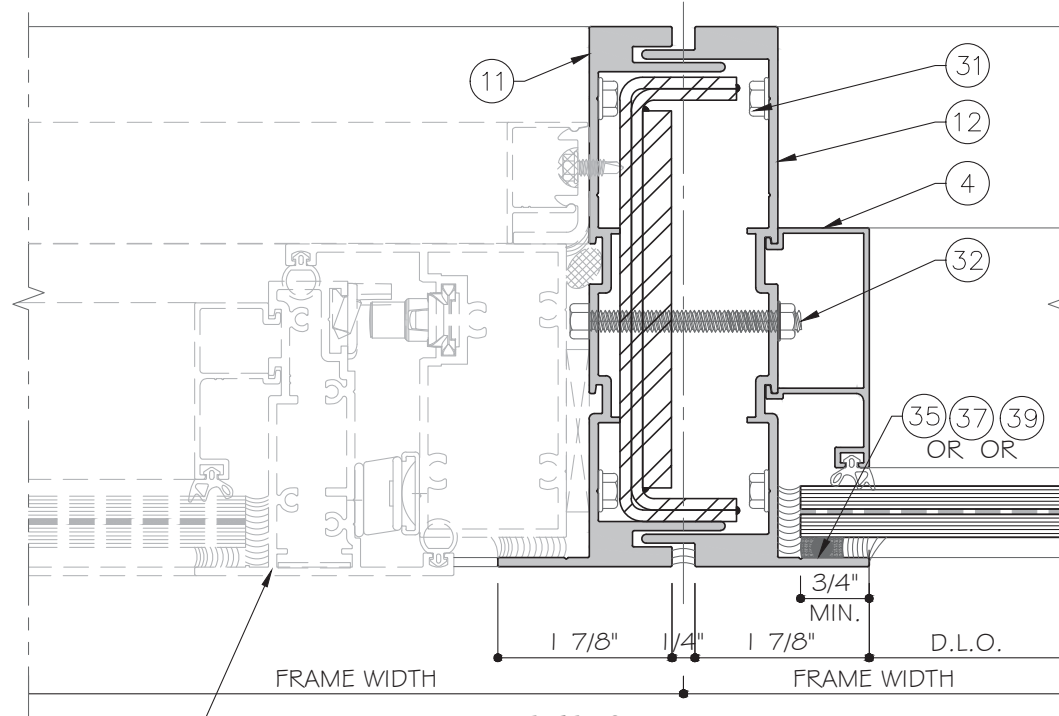
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03	08.07.23	FBC 2023
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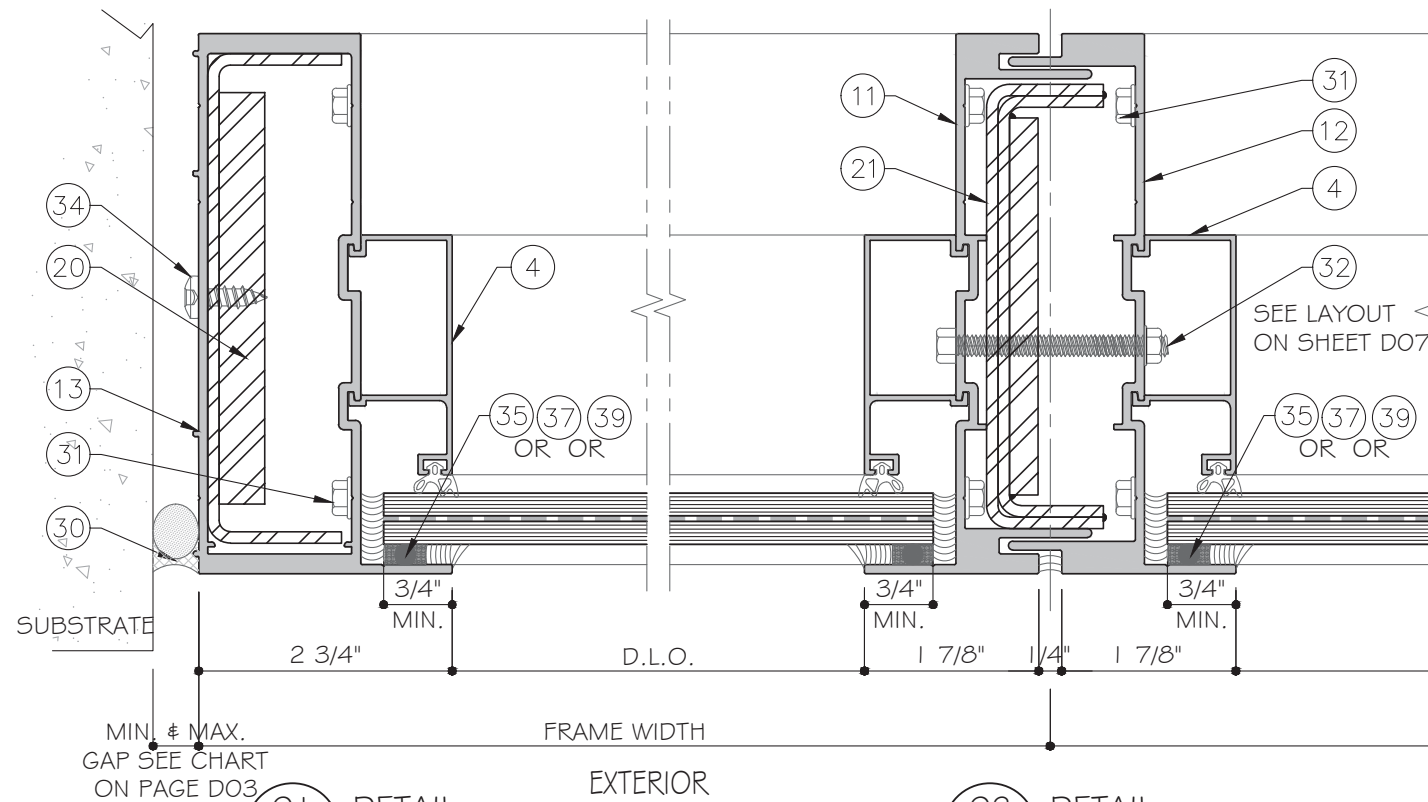
EXTERIOR

02	DETAIL
D05	OPTIONAL

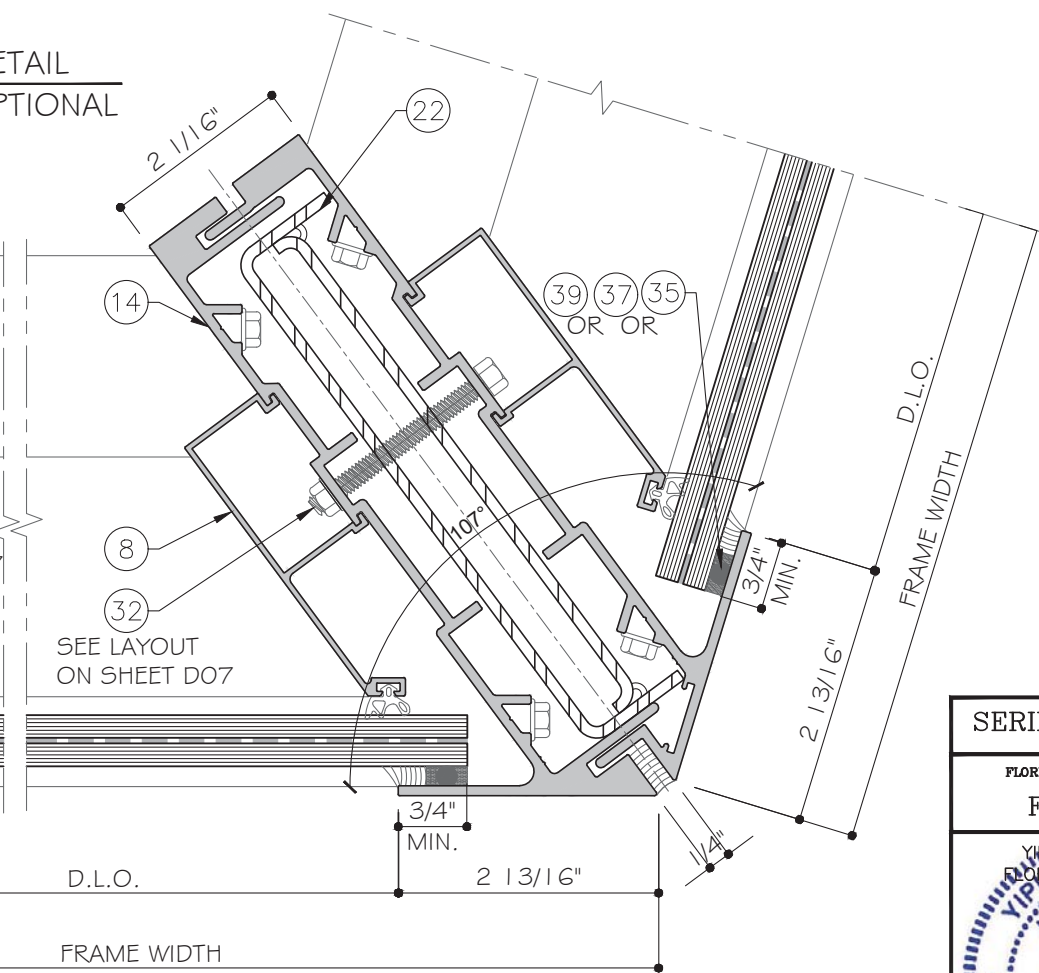


04	DETAIL
D05	OPTIONAL

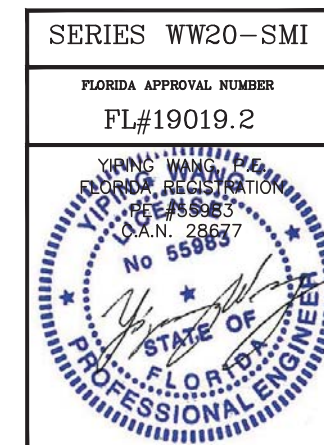
APPROVED FLORIDA WINDOW SYSTEM
ADEQUATE TO SUPPORT LOADS
IMPOSED ON IT.
(UNDER SEPARATE FLA)



03 01 DETAIL
D05

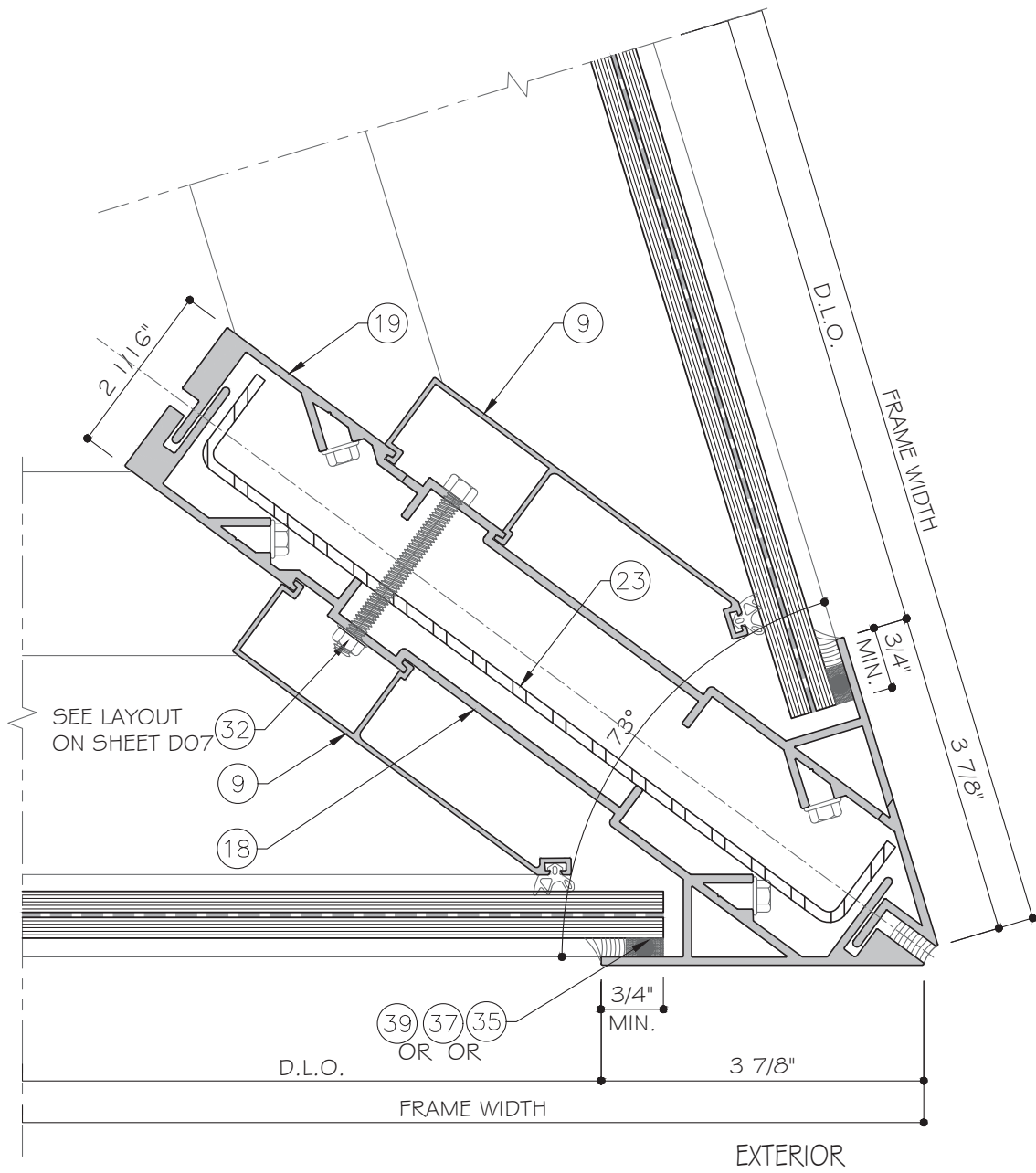


03 DETAIL
D05



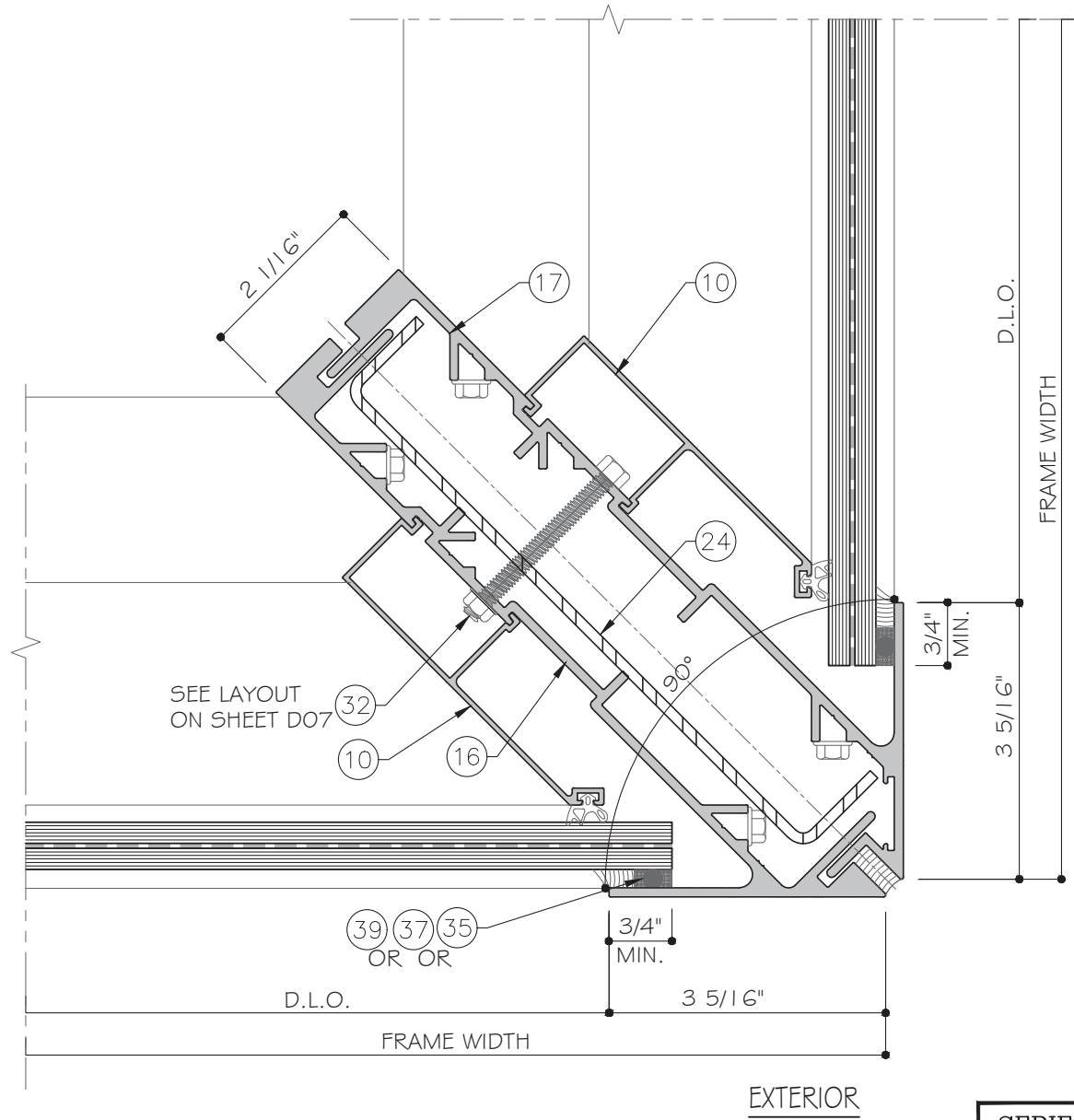
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~~August 07th, 2023~~



01
D06

DETAIL



02
D06

DETAIL

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

12871 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: (305) 271-0117
www.MCYEngineering.com mcy@mcyengineering.com

SERIES WW20 WINDOW WALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.
DBA: EPSYLON USA
1881 SW 3ST POMPAÑO BEACH, FL 33069
TEL: (954)-942-3322

Rev.	Date	Description
03	08.07.23	FBC 2023

Drawn Date: 08/07/23

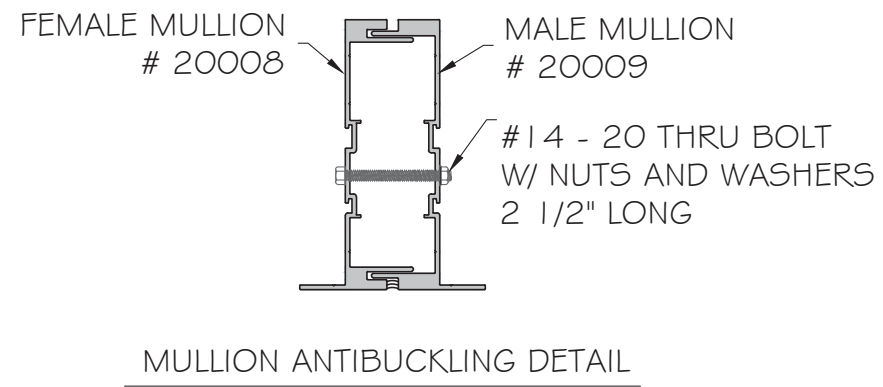
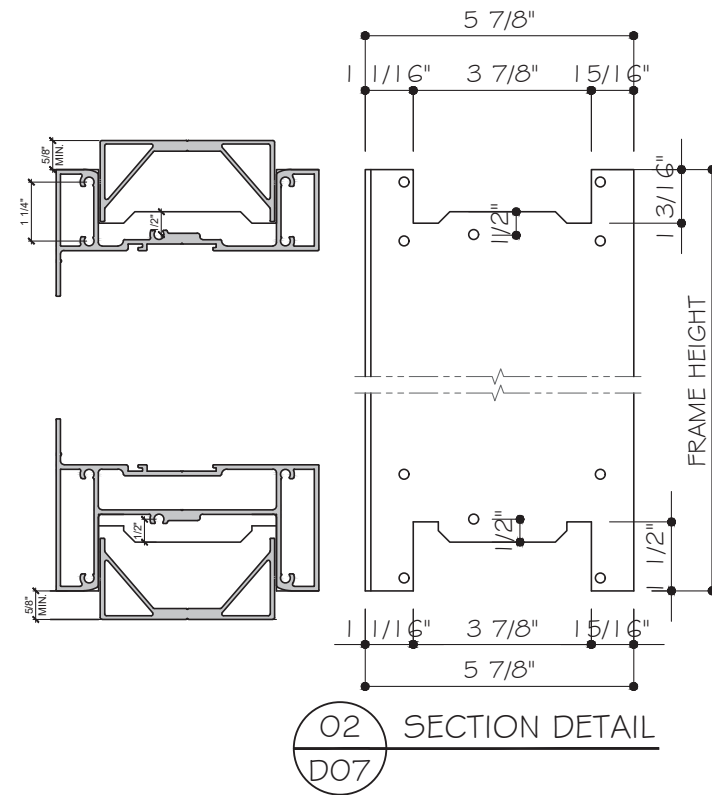
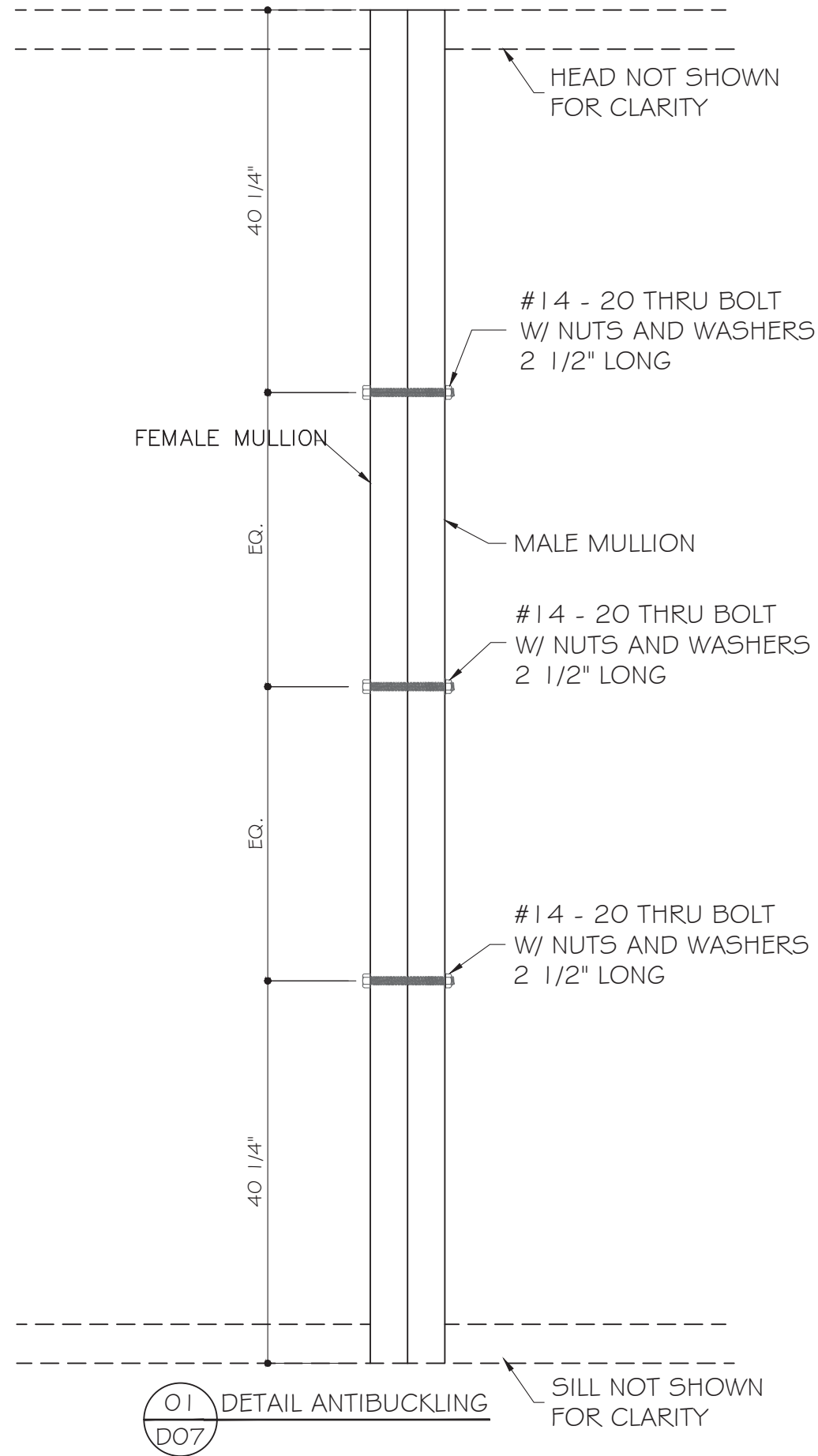
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August 07th, 2023



SERIES WW20-SMI

FLORIDA APPROVAL NUMBER
FL#19019.2

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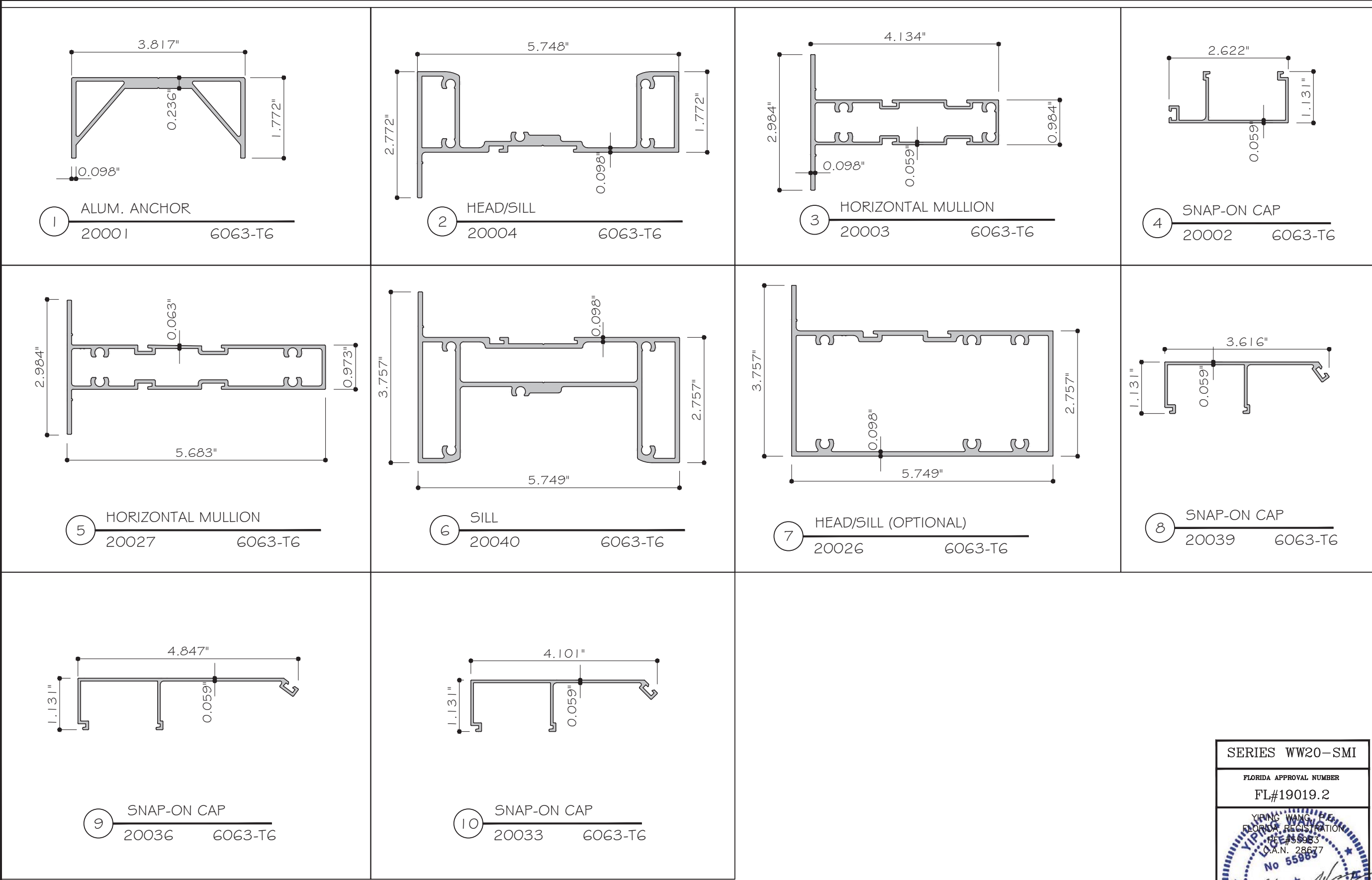
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AD19-26

D07

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08/07/23

Scale

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P1

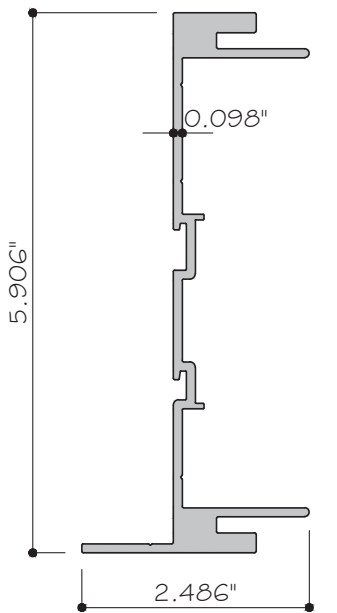
SERIES WW20-SMI

FLORIDA APPROVAL NUMBER
FL#19019.2

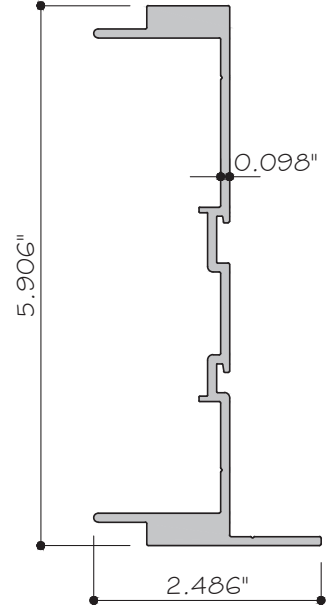
YIPING WANG
FLORIDA REGISTRATION
PE #55883
O.A.N. 28677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

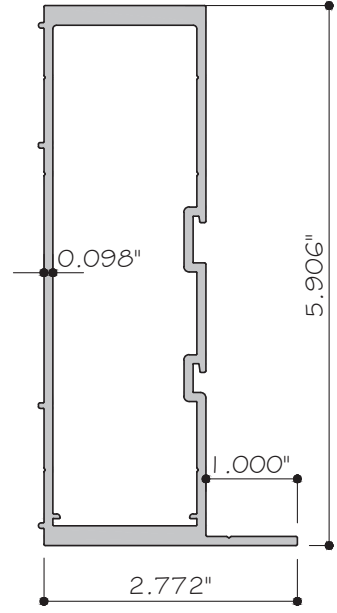
August 07th, 2023



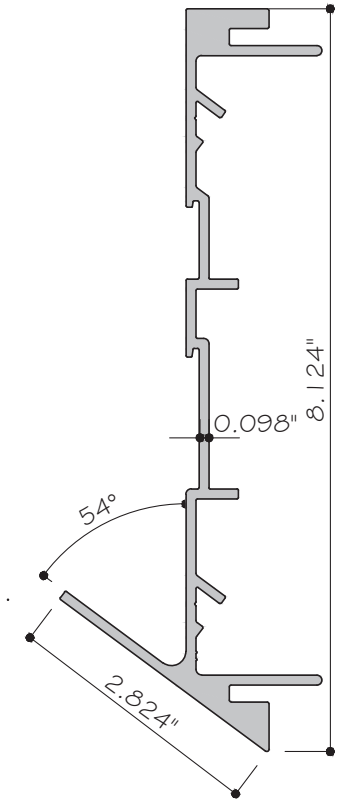
11 MULLION(FEMALE)
20008 6063-T6



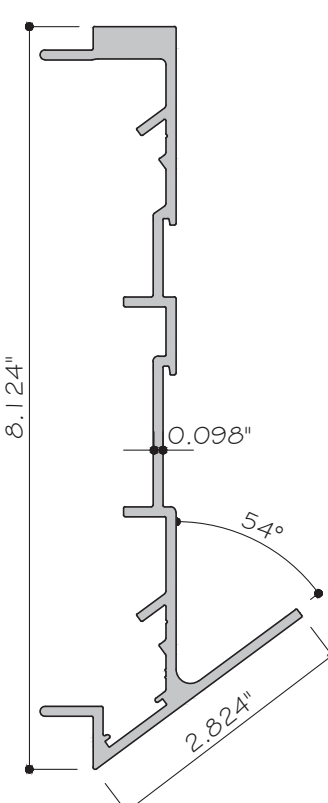
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20009 6063-T6



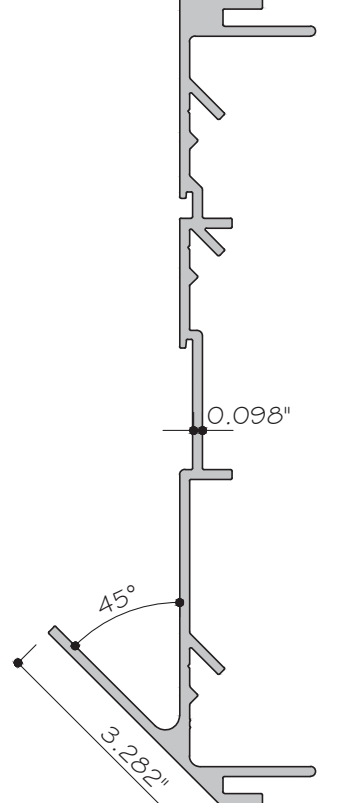
13 JAMB
20007 6063-T6



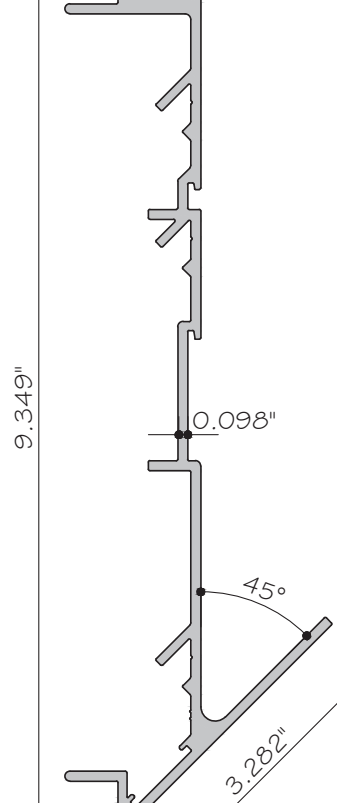
14 MULLION(FEMALE)
20038 6063-T6



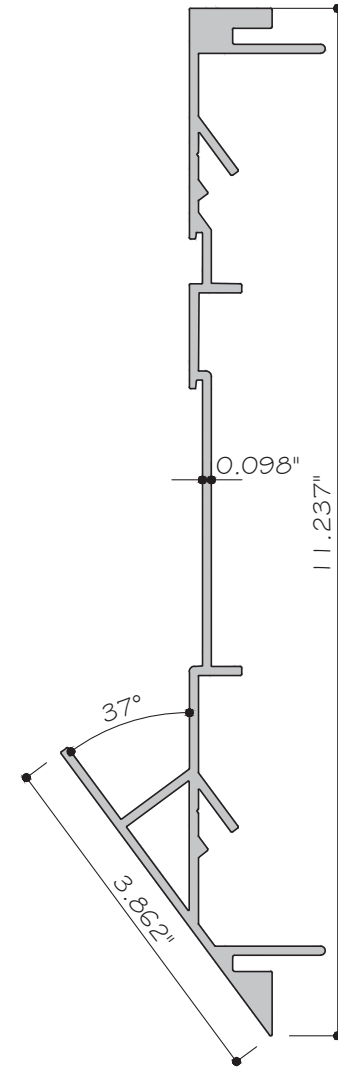
15 MULLION(MALE)
20037 6063-T6



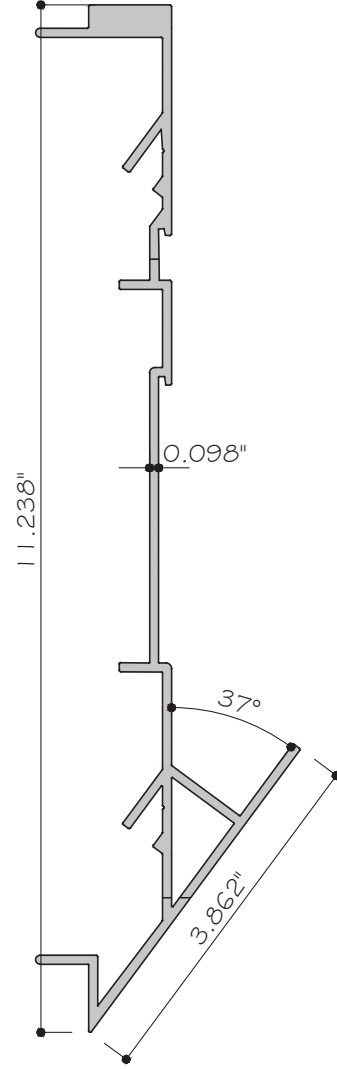
16 MULLION(FEMALE)
20031 6063-T6



17 MULLION(MALE)
20032 6063-T6



18 MULLION(FEMALE)
20035 6063-T6



19 MULLION(MALE)
20034 6063-T6

SERIES WW20-SMI

FLORIDA APPROVAL NUMBER
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FLORIDA REGISTRATION
PE#155983
O.A.N. 28677

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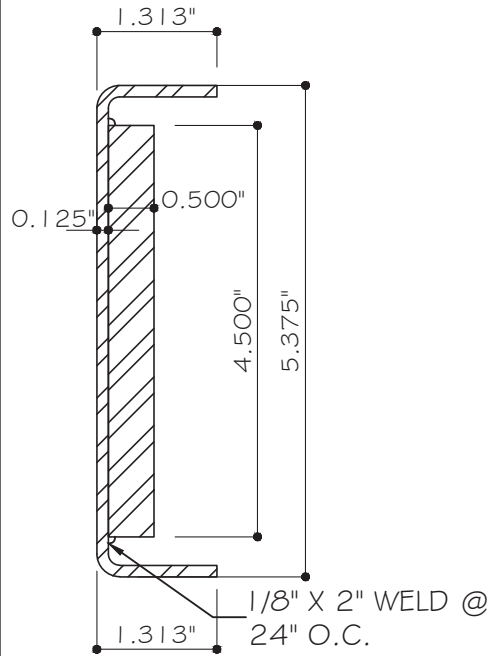
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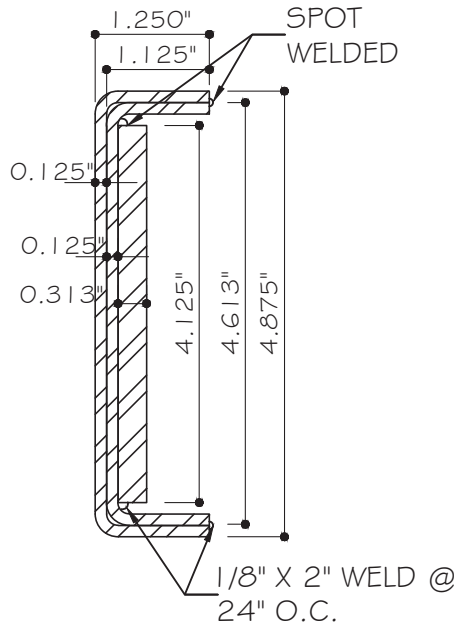
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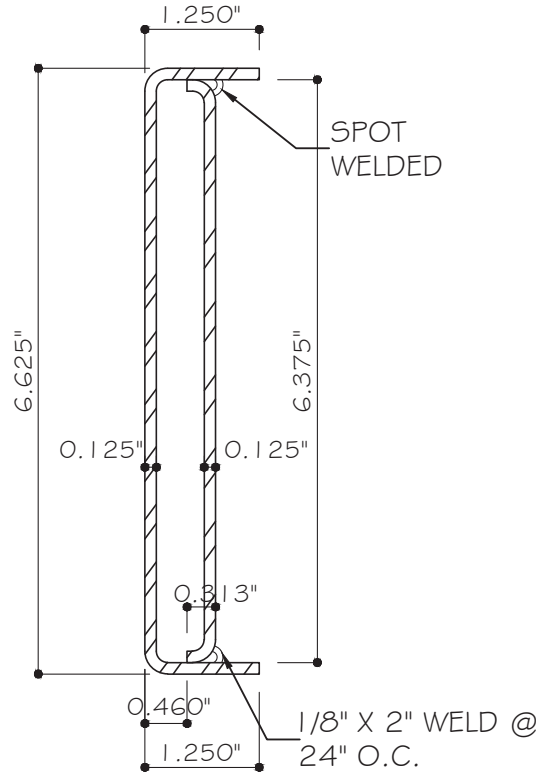
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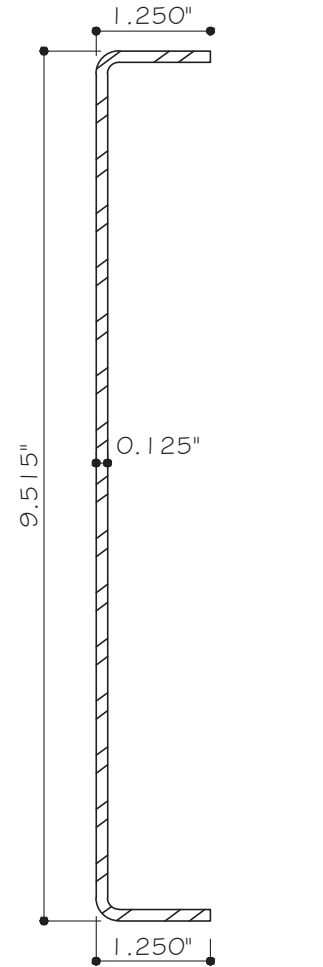
20 STEEL REINF.
A36 MIN.



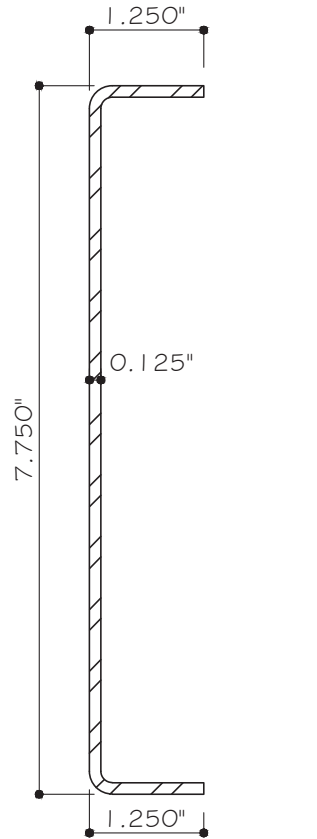
21 STEEL REINF.
A36 MIN.



22 STEEL REINF.
A36 MIN.



23 STEEL REINF.
A36 MIN.



24 STEEL REINF.
A36 MIN.

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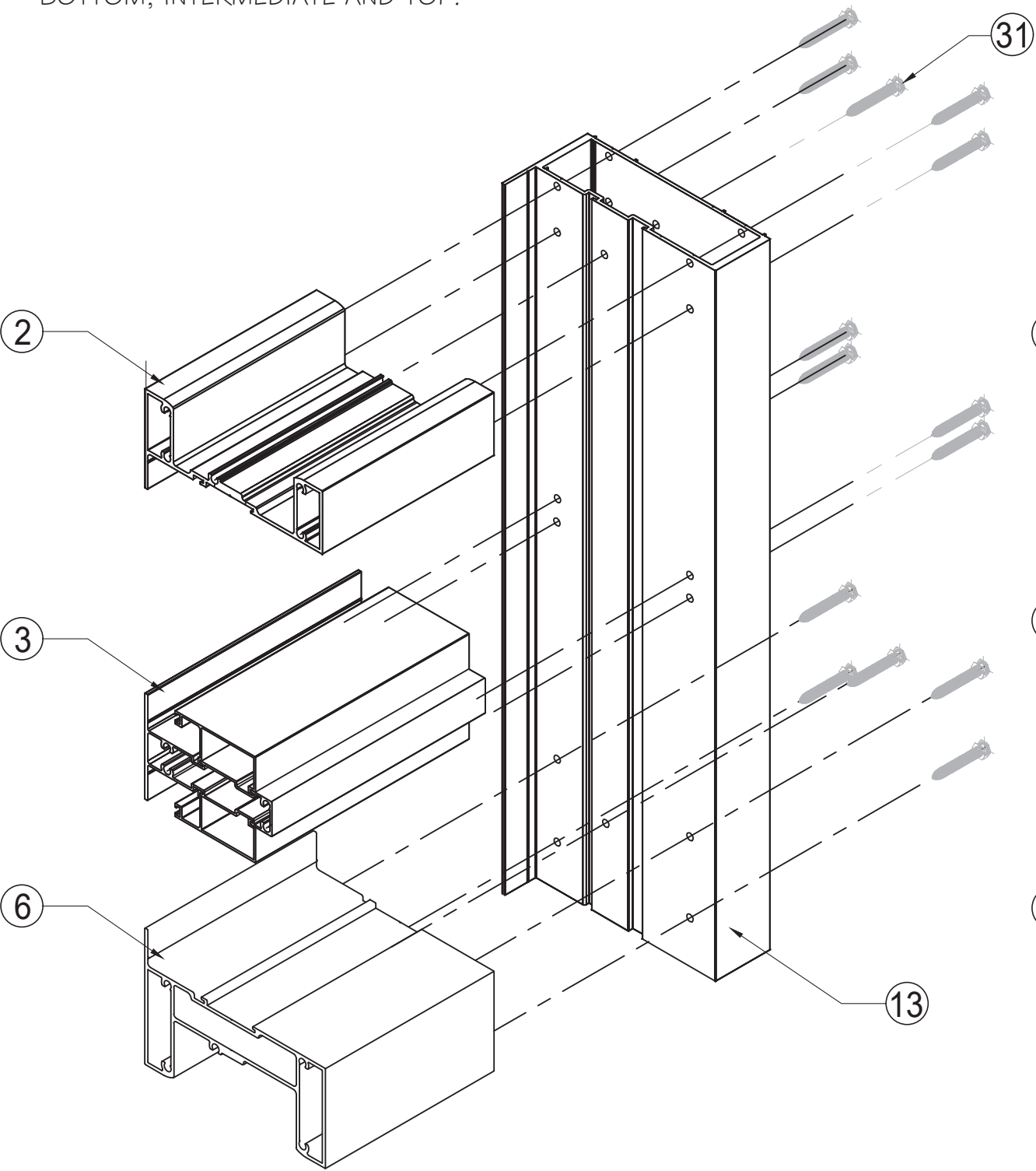
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BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	20001	ANCHOR (FULL LENGTH)	ALUM. 6063-T6	METRA ALUMINUM INC
2	20004	HEAD/SILL	ALUM. 6063-T6	METRA ALUMINUM INC
3	20003	HORIZONTAL MULLION	ALUM. 6063-T6	METRA ALUMINUM INC
4	20002	SNAP-ON CAP	ALUM. 6063-T6	METRA ALUMINUM INC
5	20027	HORIZONTAL MULLION	ALUM. 6063-T6	METRA ALUMINUM INC
6	20040	SILL	ALUM. 6063-T6	METRA ALUMINUM INC
7	20026	HEAD/SILL(OPTIONAL)	ALUM. 6063-T6	METRA ALUMINUM INC
8	20039	107° SNAP-ON CAP	ALUM. 6063-T6	METRA ALUMINUM INC
9	20036	73° SNAP-ON CAP	ALUM. 6063-T6	METRA ALUMINUM INC
10	20033	90° SNAP-ON CAP	ALUM. 6063-T6	METRA ALUMINUM INC
11	20008	SPLIT MULLION (FEMALE)	ALUM. 6063-T6	METRA ALUMINUM INC
12	20009	SPLIT MULLION (MALE)	ALUM. 6063-T6	METRA ALUMINUM INC
13	20007	JAMB	ALUM. 6063-T6	METRA ALUMINUM INC
14	20038	107° SPLIT MULLION (FEMALE)	ALUM. 6063-T6	METRA ALUMINUM INC
15	20037	107° SPLIT MULLION (MALE)	ALUM. 6063-T6	METRA ALUMINUM INC
16	20031	90° SPLIT MULLION (FEMALE)	ALUM. 6063-T6	METRA ALUMINUM INC
17	20032	90° SPLIT MULLION (MALE)	ALUM. 6063-T6	METRA ALUMINUM INC
18	20035	73° SPLIT MULLION (FEMALE)	ALUM. 6063-T6	METRA ALUMINUM INC
19	20034	73° SPLIT MULLION (MALE)	ALUM. 6063-T6	METRA ALUMINUM INC
20	R1	(1) STEEL CHANNEL + (1) SOLID STEEL BAR	STEEL	SC
21	R2	(2) STEEL CHANNEL + (1) SOLID STEEL BAR	STEEL	SC
22	R3	(2) STEEL CHANNEL	STEEL	SC
23	R4	1.250"X9.515"X1.250"X1/8" STL CHANNEL REINF.	STEEL	SC
24	R5	1.250"X6.625"X1.250"X1/8" STL CHANNEL REINF.	STEEL	SC
25	91502	EPDM TREMCO GASKET	EPDM	EPDM - DURO 70
26	-	POLISHIM 1/8" X 1/2"	-	-
27	-	SCR SETTING BLOCK @ 1/8 POINTS	RUBBER	-
28	-	SEALANT SPECTREM 2	SILICONE	-
29	-	3/8"-16 HH 3 1/2" LONG BOLT	-	-
30	-	BACKER ROD & SEALANT SPECTREM 2	-	-
31	-	#14 HH SS ASSEMBLY SCREWS - 1 1/2" LONG	STAINLESS STEEL	-
32	-	#14-20 THRU BOLT W/NUTS AND WASHER - 2 1/2" LONG	STAINLESS STEEL	-
33	-	#14 SELF TAPPING SCREW - 2 3/4" LONG	-	-
34	-	#14 X 5/8" PH SMS	-	-
35	-	POLISHIM 1/4" X 1/2"	-	-
36	VK1826	STRUCTURAL GLAZING SPACER, 1/2"X1/8" THK, WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 65.	PVC FOAM	CAPITAL TAPE CO, INC
37	VK1826	STRUCTURAL GLAZING SPACER, 1/2"X1/4" THK , WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 65.	PVC FOAM	CAPITAL TAPE CO, INC
38	V2108	HIGH-STRENGTH POLYURETHANE FOAM SUBSTRATE, 1/2"X1/8" THK. WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 35.	FOAM	SAINT-GOBAIN PERFORMANCE PLASTICS
39	V2104	HIGH-STRENGTH POLYURETHANE FOAM SUBSTRATE, 1/2"X1/4"THK. WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 35.	FOAM	SAINT-GOBAIN PERFORMANCE PLASTICS

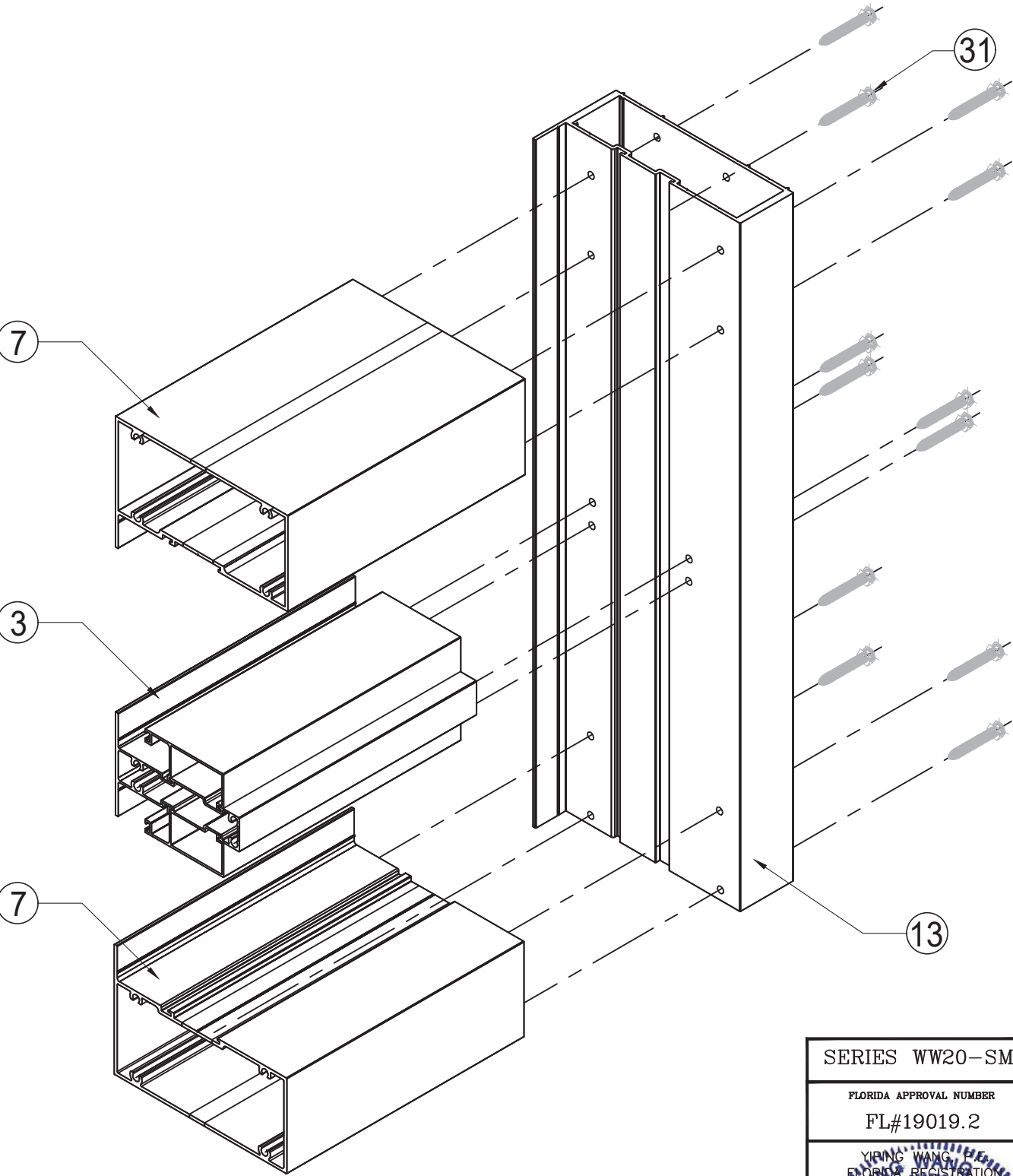


							FBC 2023	Description
							06/07/23	Date
							03	Rev. No.
Drawn Date 08/07/23				Scale				
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FRAME CORNERS:
BOTTOM, INTERMEDIATE AND TOP.



FRAME CORNER ASSEMBLY



FRAME CORNER ASSEMBLY
(OPTION)

SERIES WW20-SMI

FLORIDA APPROVAL NUMBER
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YIPING WANG
FLORIDA REGISTRATION
PE #15593
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