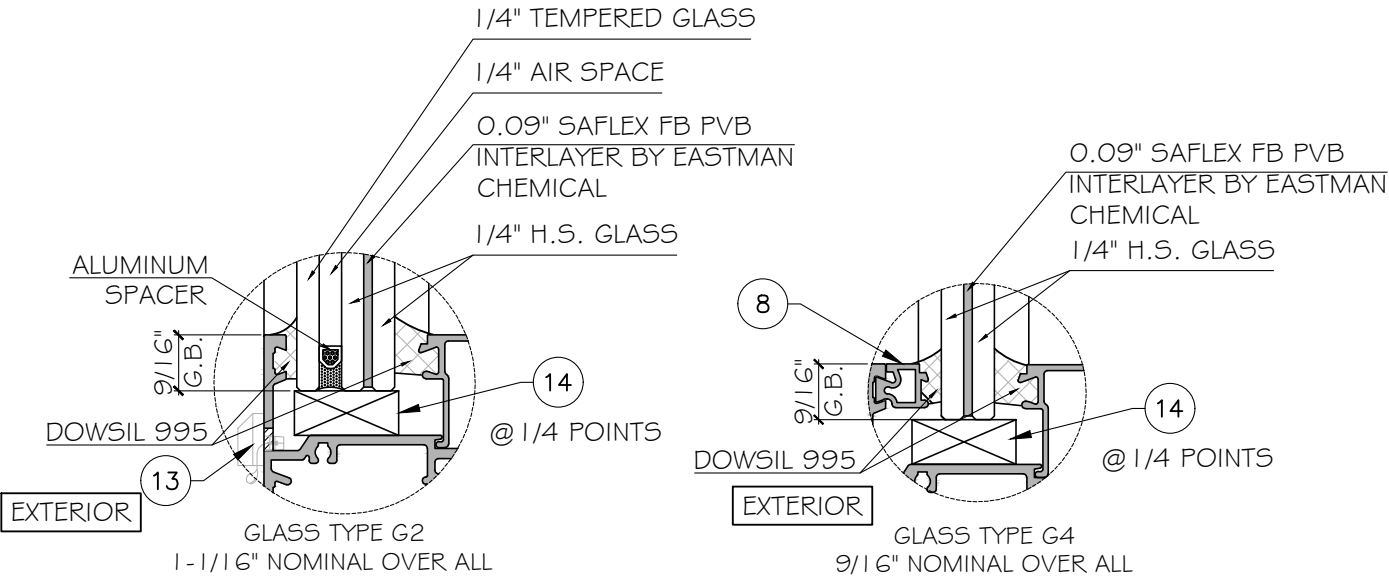


SHANGHAI SUPERHOUSE BUILDING MATERIAL CO.,LTD
SPA150 ALUMINUM WINDOW WALL - S.M.I.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION OF FLORIDA BUILDING CODE 2020/ 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- PANELS ARE RATED FOR SMALL MISSILE IMPACT, IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE PANELS 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 OF FLORIDA BUILDING CODE 2020/8TH 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 7-16/ 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.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.



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

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION.
- STEP 3: ANCHOR OPTION SEE SHEET A1. ANCHOR LAYOUT SEE SHEET E1. GLASS CAPACITY 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	OPP. - OPPOSITE
D.L.O. - DAYLITE OPENING	
F.H. - FRAME HEIGHT	
F.W. - FRAME WIDTH	
W/ - WITH	
W/O - WITHOUT	
O.C. - ON CENTER	

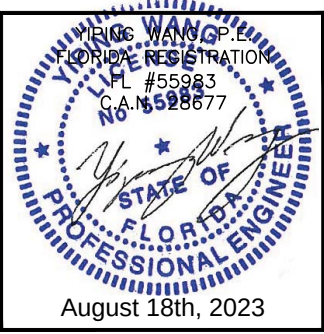
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C

7

SHEET NUMBER

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FL#29474.3



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www.MCYEngineering.com mcy@mcyengineering.com

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SHANGHAI, CHINA
TEL: 86 021-5822 0630 CELL: 86 135-8572-3609

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1.	01.24.2022	JAMES	NEW APPROVAL

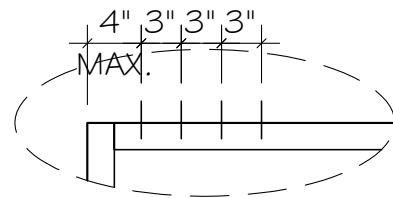
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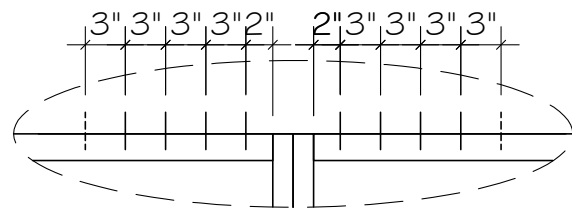
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1 OF 7

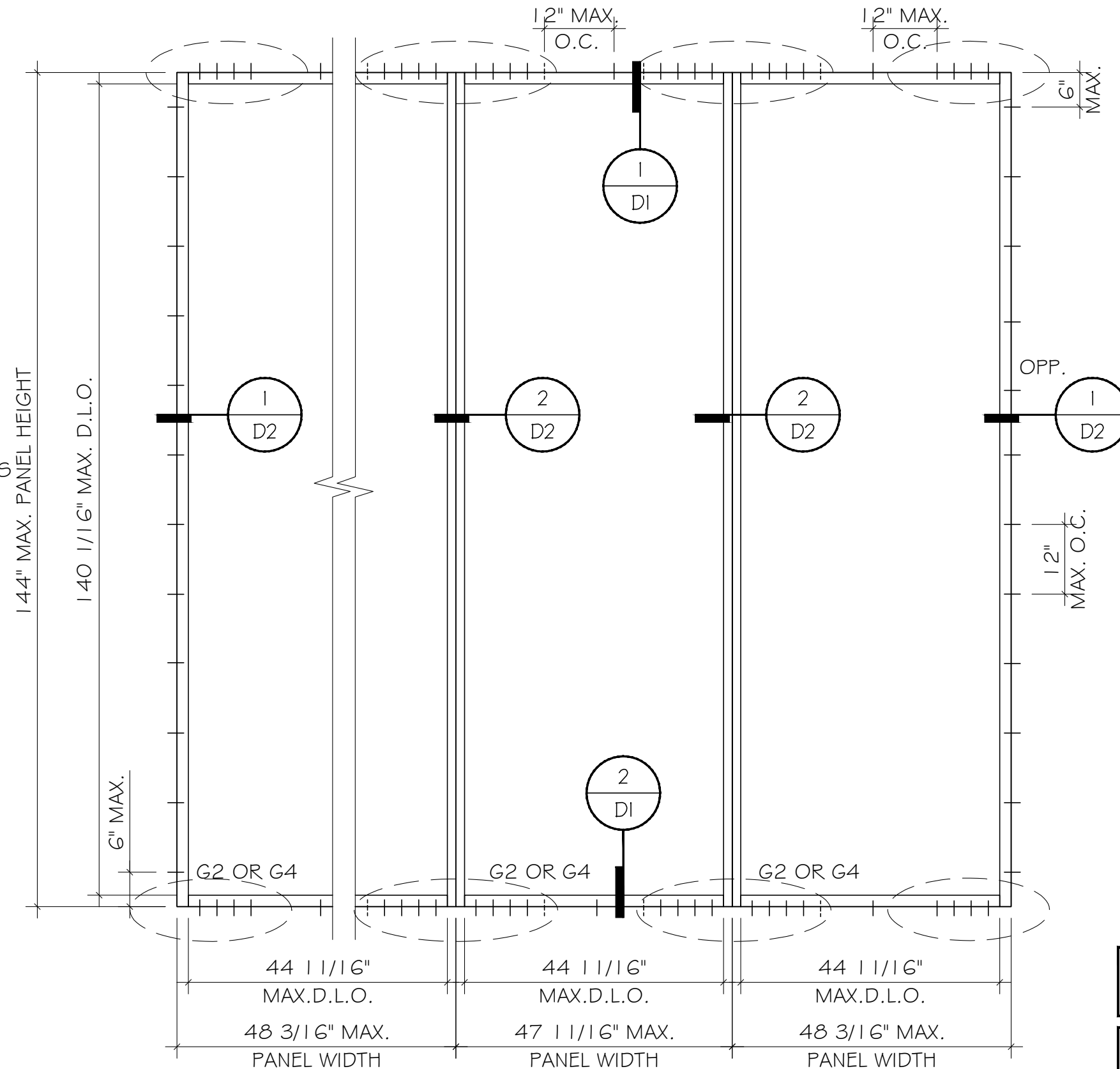


ANCHOR AT JAMB END



ANCHOR AT MULLION END

100 PSF < WIND LOAD ≤ 110 PSF, (10) ANCHORS
WIND LOAD ≤ 100 PSF, (8) ANCHORS

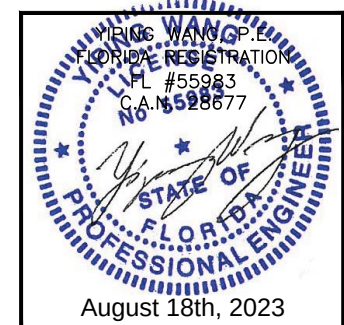


GLASS TYPE	MAX. GLASS SIZE		MAX. GLASS D.L.O.W X D.L.O.H AREA (FT²)	DESIGN LOADS (PSF)	
	D.L.O.W.	D.L.O.H.		EXT. (+)	INT. (-)
	IN.	IN.			
G2	44 11/16"	140 1/16"	43.47	96	110
G4	44 11/16"	140 1/16"	43.47	96	110

TYPICAL EXTERIOR ELEVATIONS

ALLOWABLE DESIGN LOAD FOR
SIZE SHOWN ABOVE OR
SMALLER AS PERMITTED BY FBC
+96/-110 PSF

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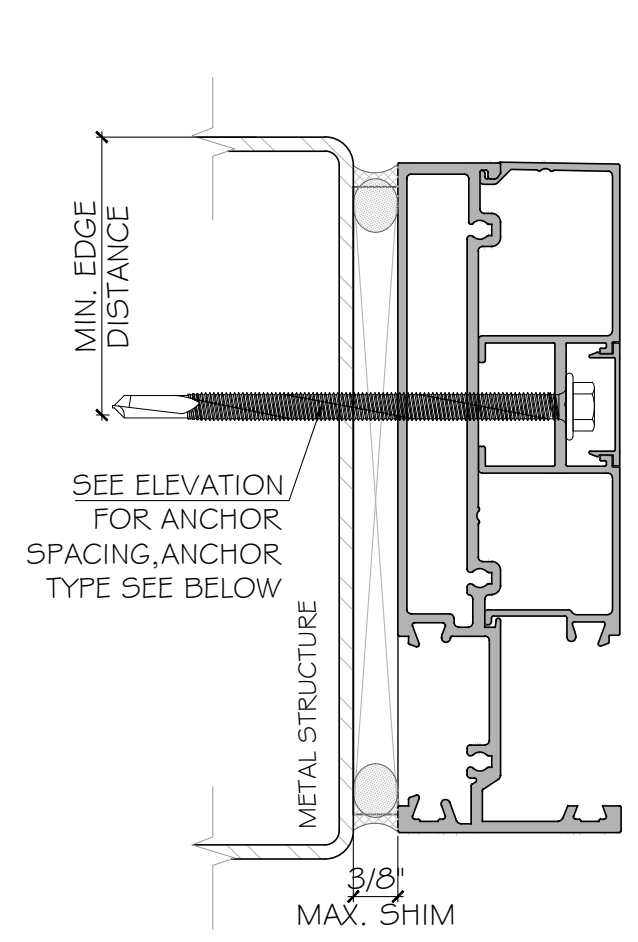
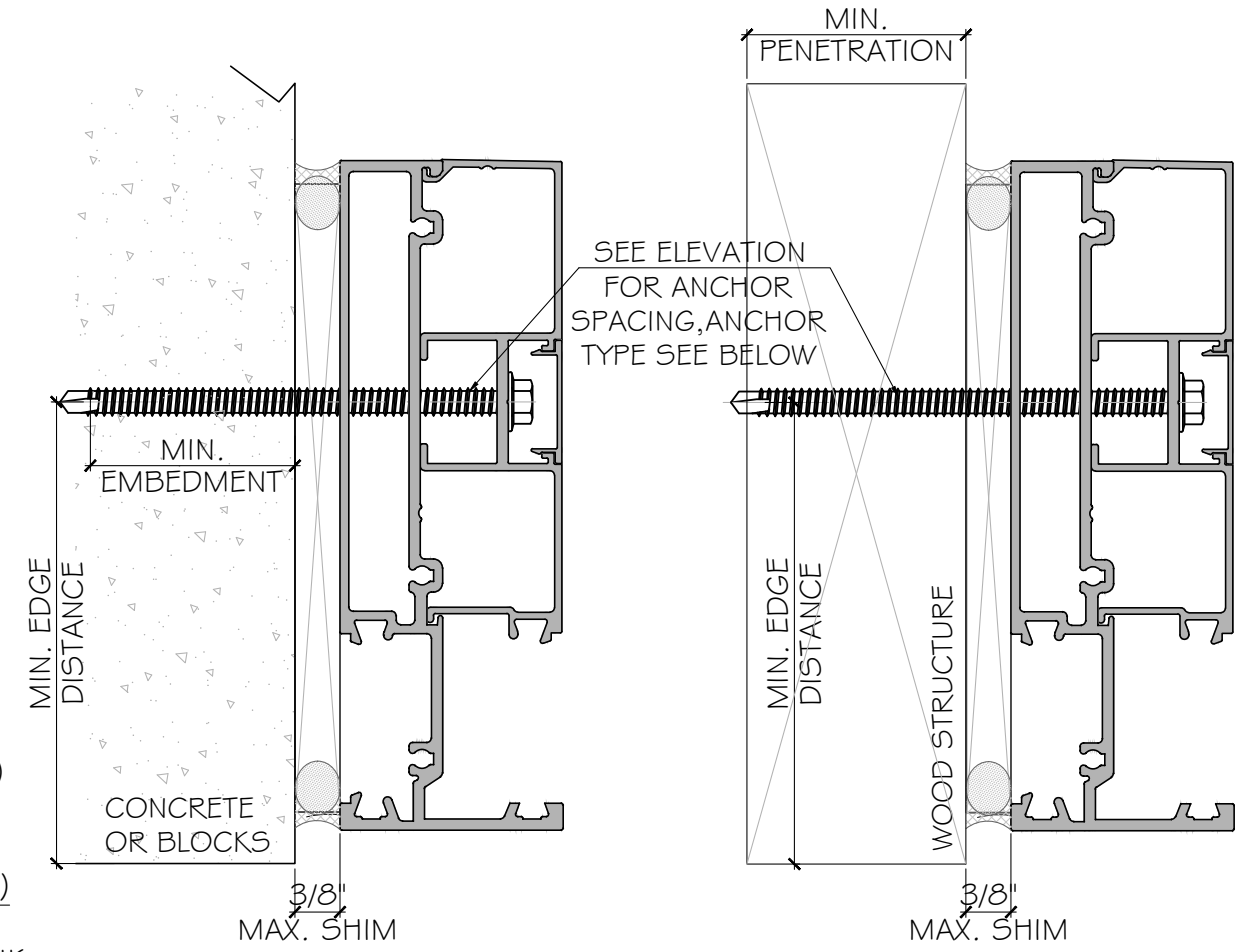
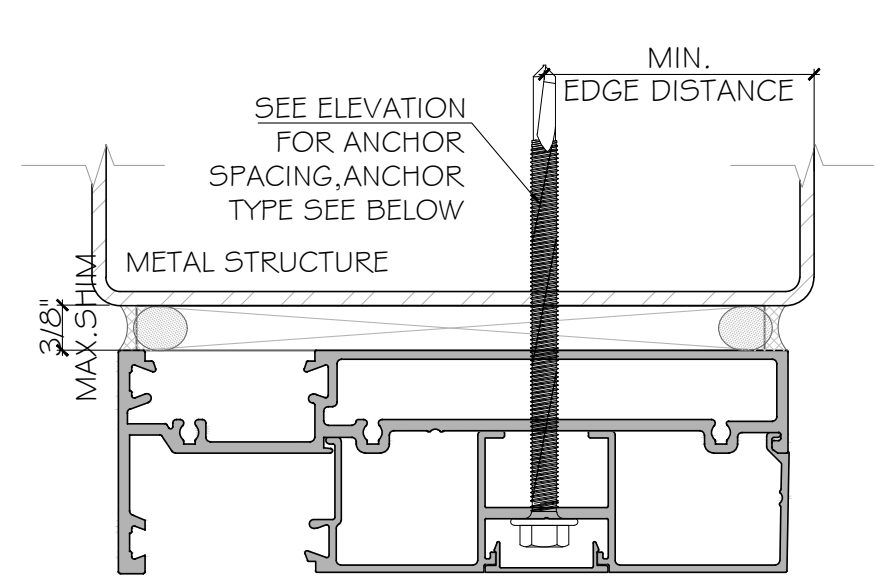
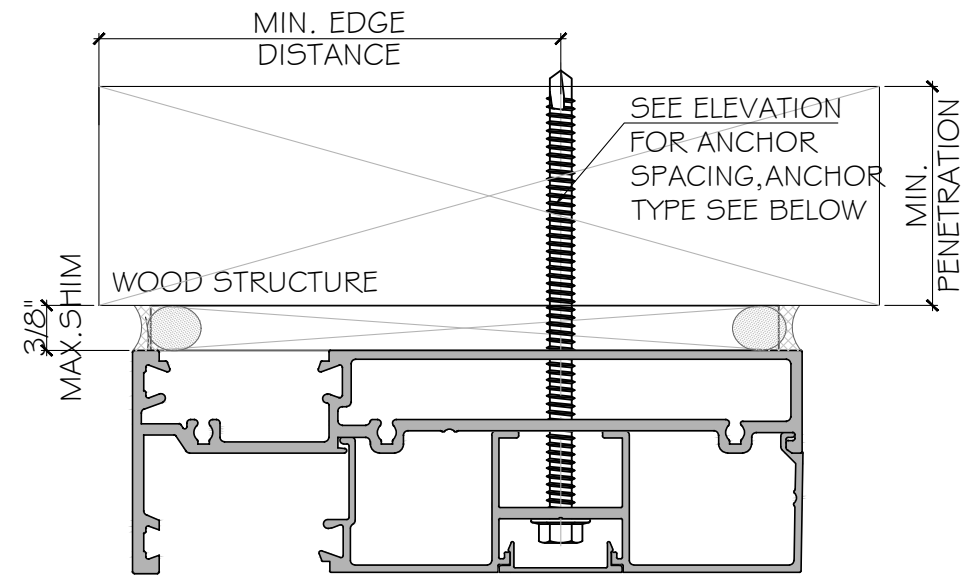
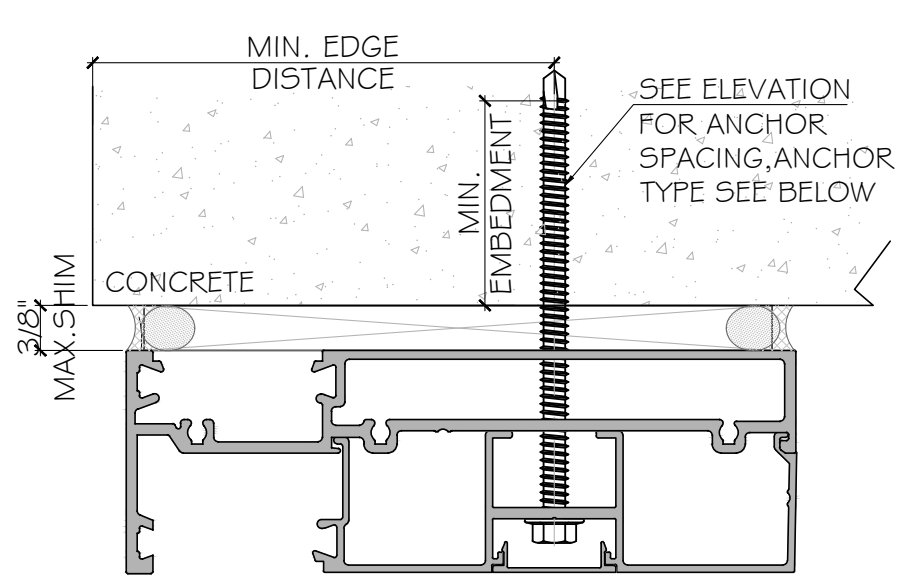
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AD22-04

E1

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ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)

ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT'
(Fu= 164KSI, Fy= 148KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/ SILL/ JAMB)

THRU 1 BY WOOD BUCK INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMB)
1-3/4" MIN. EMBED INTO CONCRETE OR BLOCKS (JAMB ONLY)

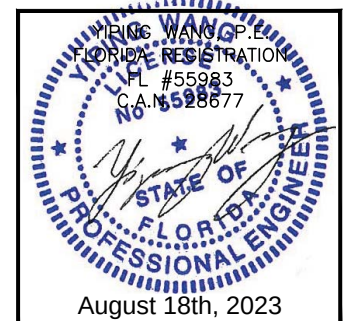
ANCHOR TYPE 'B' - 1/4" TEKS/ SELF DRILLING SCREW (GRADE 5)
(Fu= 120KSI, Fy= 92KSI)
INTO FBC APPROVED MULLIONS (ALUM.6063-T5 MIN. 1/8" THK. MIN.)
OR INTO METAL STRUCTURES, STEEL: 1/8" THK. MIN. (A36 MIN.)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE (3000 PSI MIN.) OR MASONRY = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
INTO WOOD STRUCTURE = 1" MIN.

NOTE:
METAL STRUCTURE BY OTHERS MUST BE DESIGNED
AND ANCHORED PROPERLY TO SUSTAIN LOADS
IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM
TO THE BUILDING STRUCTURE.

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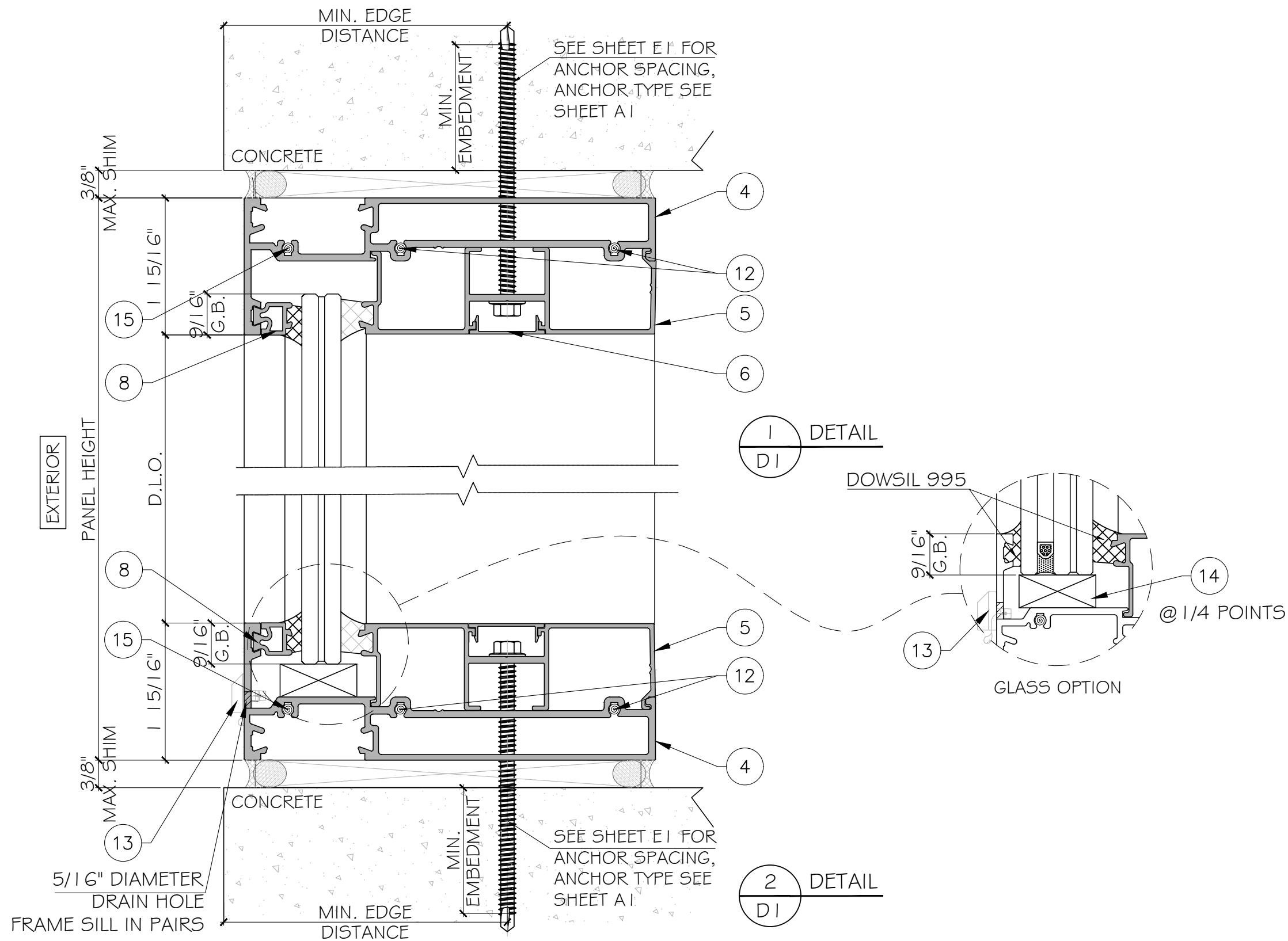
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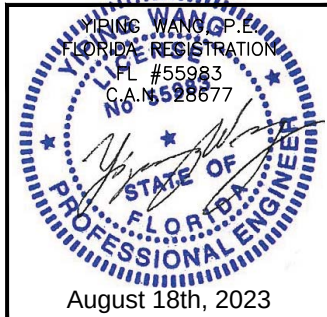
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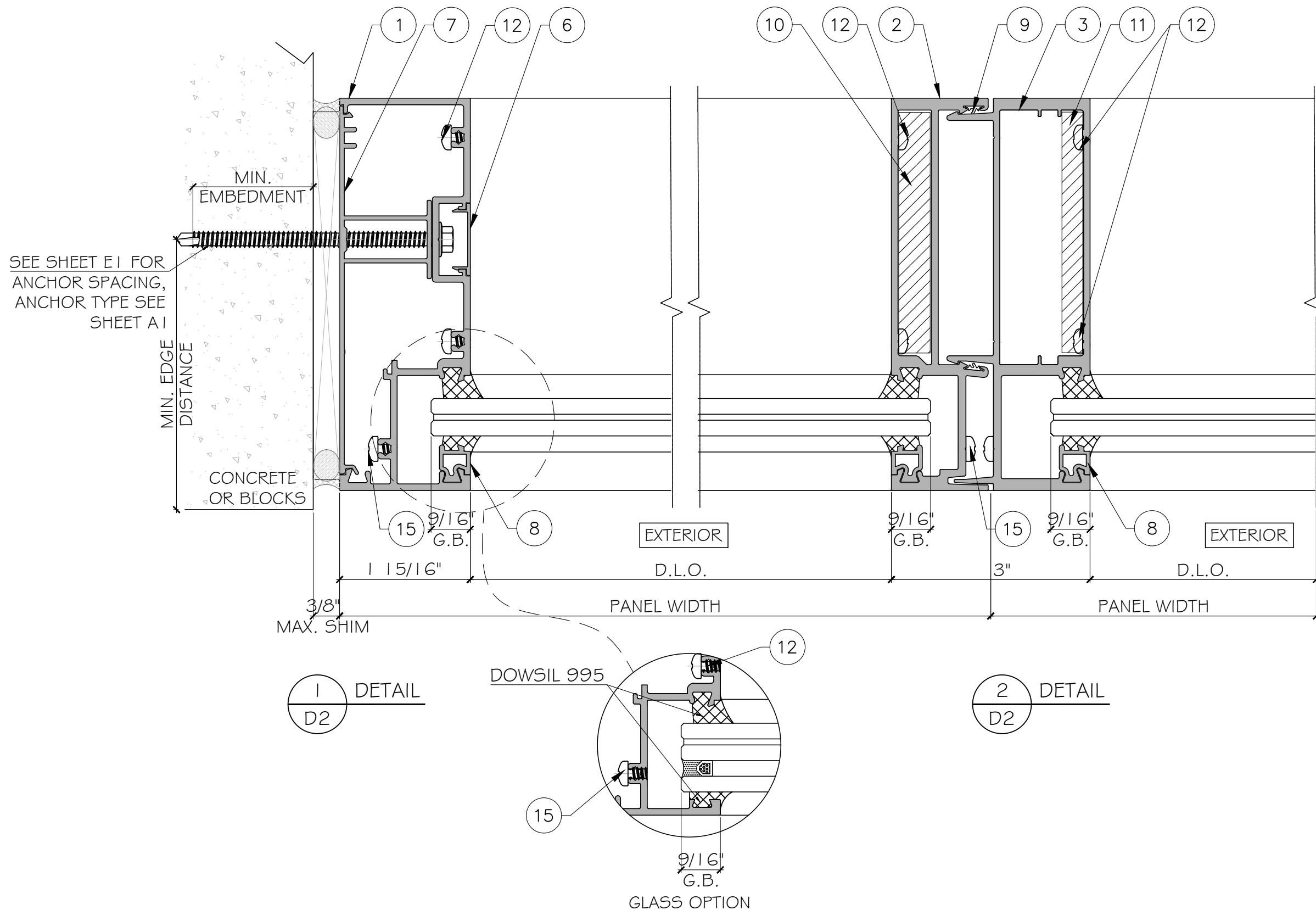
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YONG WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 5528677

August 18th, 2023

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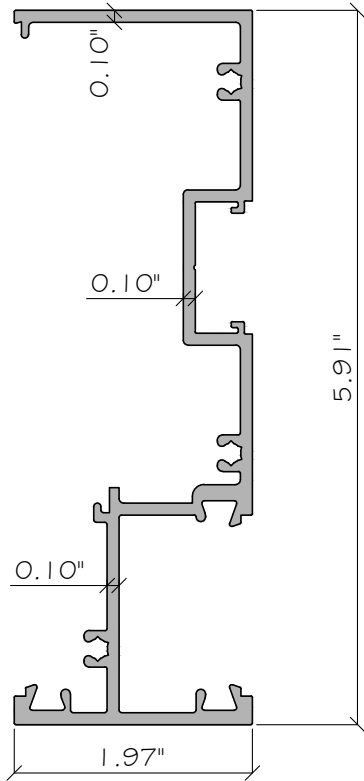
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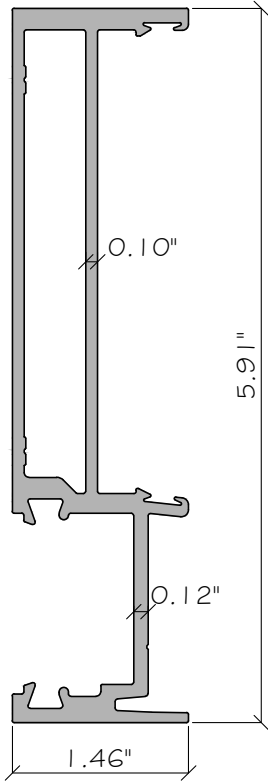
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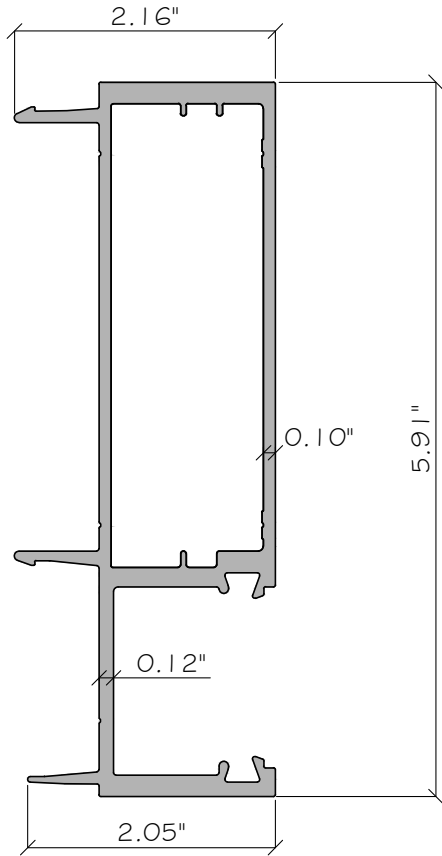
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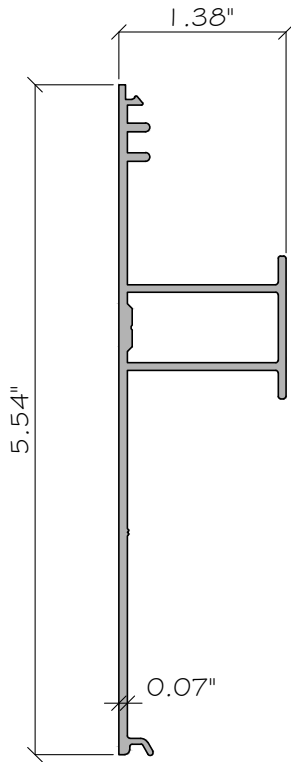
① FRAME SPA15001A
ALUM. 6063-T5



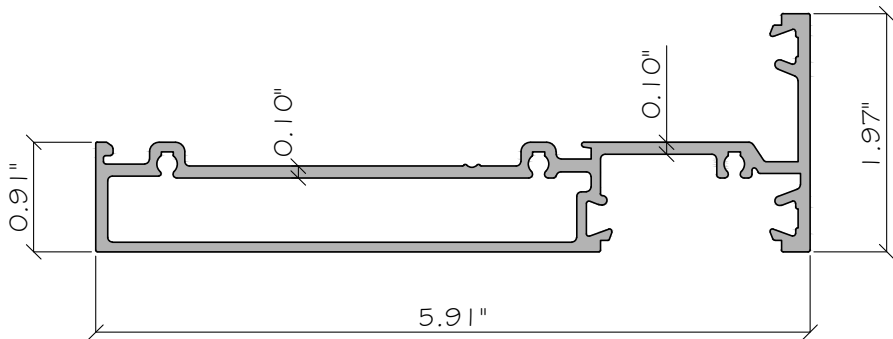
② FEMALE MULLION SPA15002B
ALUM. 6063-T6



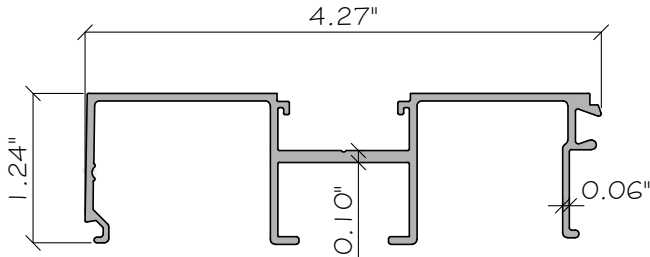
③ MALE MULLION SPA15003A
ALUM. 6063-T6



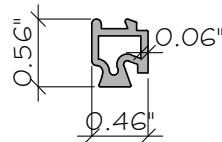
⑦ JAMB FILLER SPA15007A
ALUM. 6063-T5



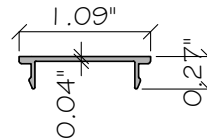
④ HEAD SILL FRAME SPA15004
ALUM. 6063-T5



⑤ GLASS STOP SPA15015
ALUM. 6063-T5

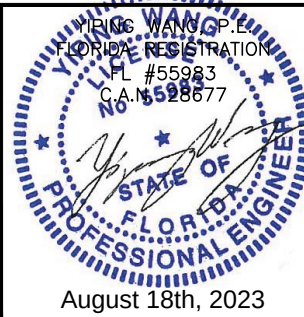


⑧ LAM. GLASS POCKET SPA10016
ALUM. 6063-T5



⑥ COVER SPA13006
ALUM. 6063-T5

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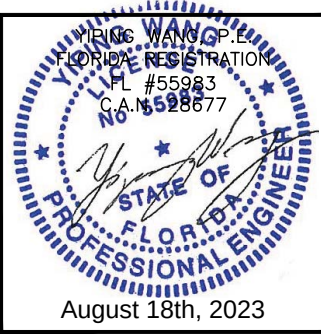
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BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER
1	SPA15001A	FRAME	ALUM. 6063-T5	SUPERHOUSE
2	SPA15002B	FEMALE MULLION	ALUM. 6063-T6	SUPERHOUSE
3	SPA15003A	MALE MULLION	ALUM. 6063-T6	SUPERHOUSE
4	SPA15004	HEAD SILL FRAME	ALUM. 6063-T5	SUPERHOUSE
5	SPA15015	GLASS STOP	ALUM. 6063-T5	SUPERHOUSE
6	SPA13006	COVER	ALUM. 6063-T5	SUPERHOUSE
7	SPA15007A	JAMB FILLER	ALUM. 6063-T5	SUPERHOUSE
8	SPA10016	LAM. GLASS POCKET	ALUM. 6063-T5	SUPERHOUSE
9	SBWG-26162	EPDM GASKET, ADUROMETER, 70±5 SHORE A	EPDM	SUPERHOUSE
10		REINFFORCING BAR 3 5/8" X 1/2"	STEEL A36 MIN.	SUPERHOUSE
11		REINFORCING BAR 3 5/8" X 5/16"	STEEL A36 MIN.	SUPERHOUSE
12		FRAME ASSEMBLY SCREWS, DIA.3/16" X 1 1/4"	410 STAINLESS STEEL	VARIES
13	WHCO1	WEEP HOLE COVER	-	SUPERHOUSE
14		EPDM SETTING BLOCKS, 1 5/32" X 1", ADUROMETER 80±5 SHORE A	EPDM	SUPERHOUSE
15		FRAME ASSEMBLY SCREWS, DIA.3/16" X 2 3/8"	410 STAINLESS STEEL	VARIES
16		STRUCTURAL SILICONE DOWSIL 995	SILICONE	DOWSIL

FLORIDA APPROVAL:
FL#29474.3



		MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY, STE. 301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com		SPA150 ALUMINUM WINDOW WALL - S.M.I.	
				SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA SHANG HAI, CHINA TEL.86 021-5822 0630 CELL.86 135-8572-3609	
Drawn Date 08.15.2023		Scale		02	
08.15.2023		JAMES		FBC 2023	
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Description					
DRAWING NO.					
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BOM					
Sheet No.					
7 OF 7					