

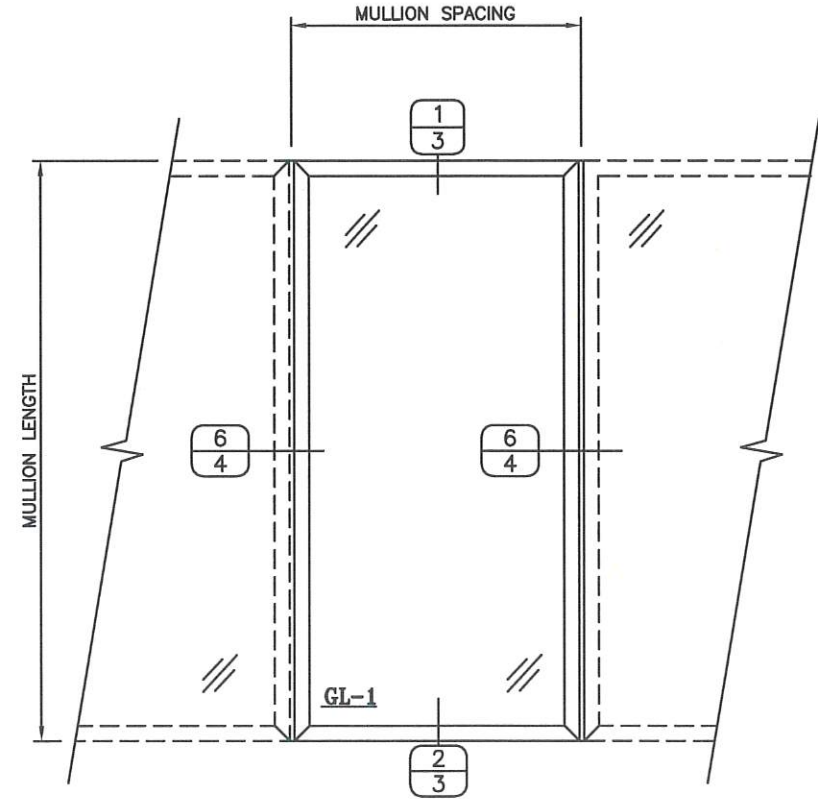
GENERAL NOTES:

- 1. MAXIMUM (ASD) DESIGN PRESSURE: +/- 80 PSF
- 2. THIS PRODUCT HAS BEEN DESIGNED AND TESTED PER TAS 201, 202, & 203 PROTOCOLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), INCLUDING THE HVHZ PROVISIONS.
- 3. THIS PRODUCT AS SHOWN HEREIN IS LARGE AND SMALL MISSILE IMPACT RESISTANT, SHUTTERS ARE NOT REQUIRED IN WINDBORNE DEBRIS REGIONS.
- 4. WOOD OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED TO TRANSFER LOADS TO THE STRUCTURE.
- 5. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS INDICATED IN THIS APPROVAL. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 6. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
- 7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS.
- 8. NO STRESS INCREASES WERE USED IN THE DESIGN OR ANALYSIS OF THIS PRODUCT. A WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.

CORNER CONSTRUCTION:

- 9. WINDOW FRAME CORNERS ARE MITERED AND CRIMPED OVER 0687853.00 AND 0687952.00 CORNER KEYS, AND SECURED WITH REYNASEAL DUO.

FOR FASTENER AND HARDWARE LOCATIONS SEE SHEET 2.



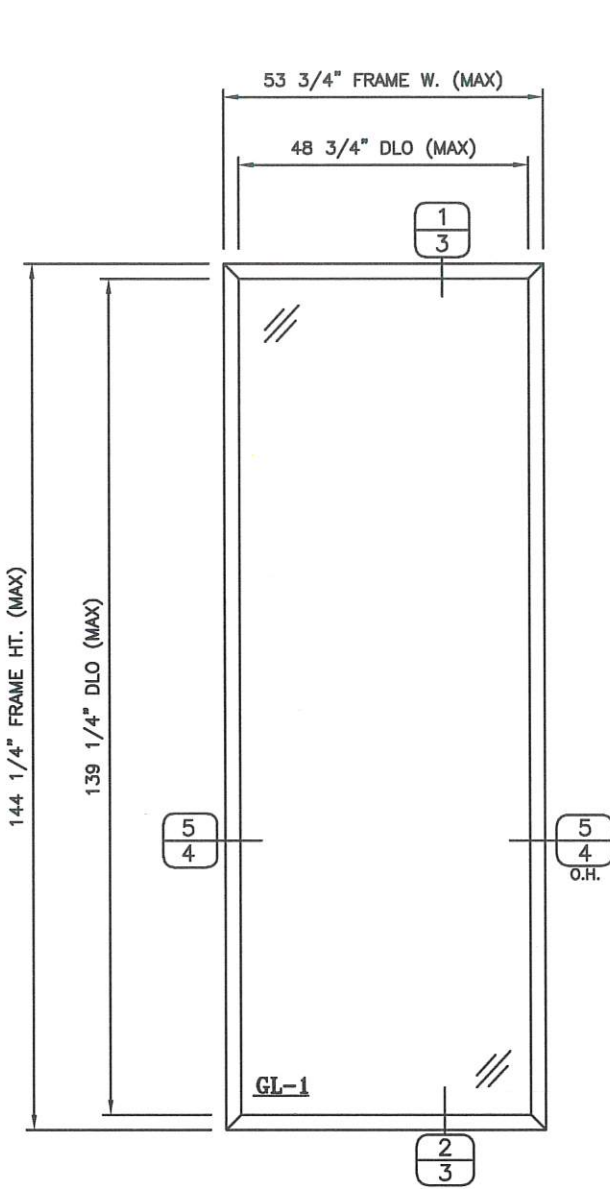
DESIGN PRESSURE
SEE MULLION CHART

FIXED WINDOW
(EXTERIOR VIEW)

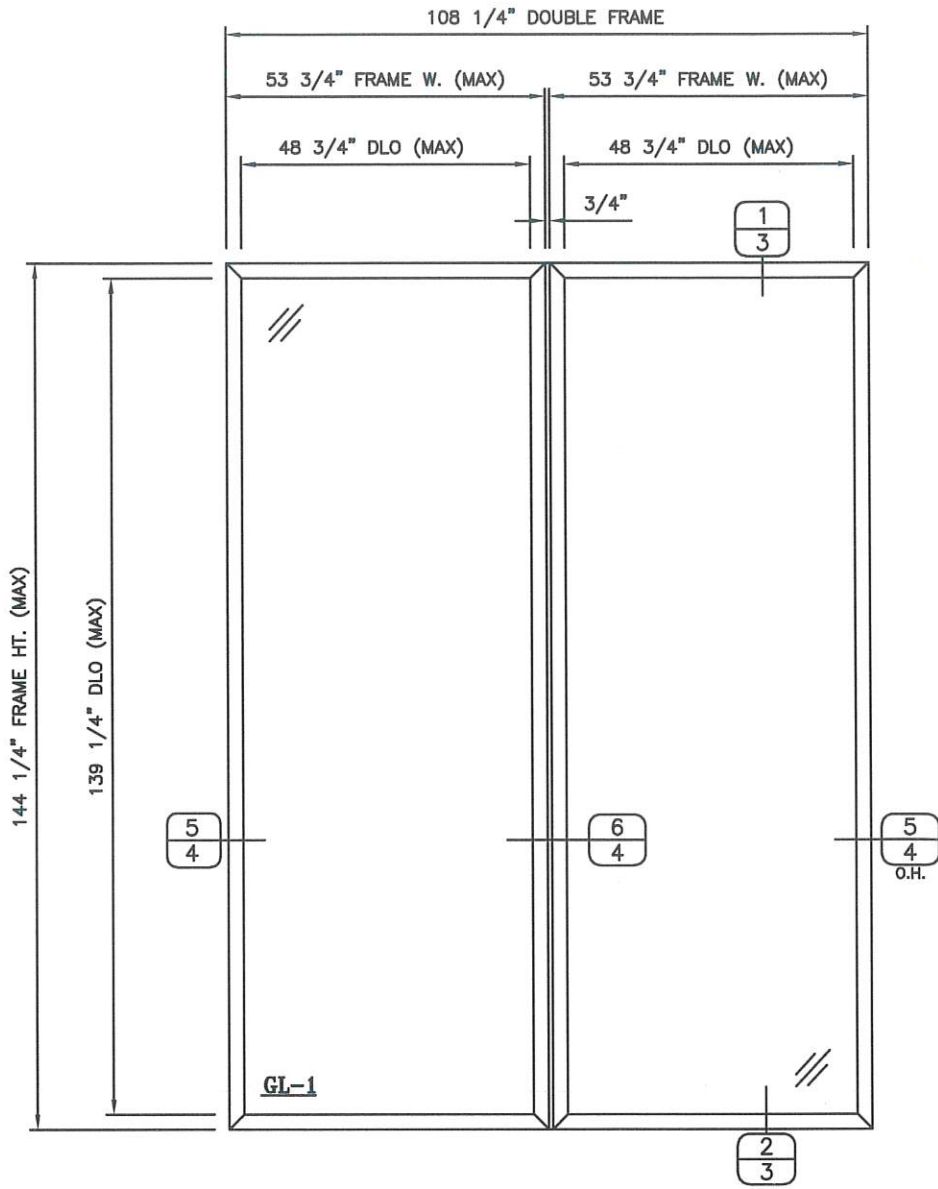
Fixed Windows may be installed in unlimited overall widths, provided the individual window frames do not exceed 53 3/4" x 144 1/4".

FIXED WINDOW
(EXTERIOR VIEW)

DESIGN PRESSURE
+/- 80 PSF



MULLION ALLOWABLE DESIGN PRESSURE		
MULLION LENGTH (in)	MULLION SPACING (in)	MULLION WITH STEEL (psf)
96	60	80
	72	80
	81 1/2	80
120	54 1/2	80
	60	80
	65 1/2	80
132	48	80
	54 1/2	80
	59 1/2	80
138	48	80
	54 1/2	80
	57	80
143	48	80
	54 1/2	80
	55	79
144 1/4	48	80
	53 1/8	80
	54 1/2	78



DOUBLE FIXED WINDOW
(EXTERIOR VIEW)

DESIGN PRESSURE
SEE MULLION CHART



Digitally signed
by Scott Wolters
Date: 2026.10.15
01:01:28 -04'00'

DATE
10/15/26

DESCRIPTION
FIRST SUBMITTAL

REV.

CS77 SERIES FIXED WINDOW (HVHZ)

REYNAERS, INC.

21115 REXFORD ROAD, SUITE 215
CHARLOTTE, NC 28211

info@reynaers.us
www.reynaers.us

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

DRAWING NO.
CS77FIX80-HZ

SHEET NO.
1 of 7

Technical drawing of a rectangular frame assembly. The drawing shows a central rectangular frame with a double-line border. The frame is surrounded by a series of fasteners (screws or bolts) indicated by diamond-shaped symbols. The dimensions are as follows:

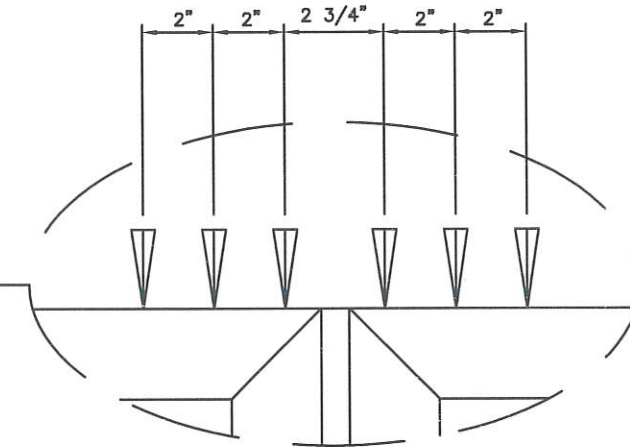
- Top edge: Four fasteners. The distance between the first and second fastener is 4". The distance between the second and third fastener is 9 1/4" MAX. The distance between the third and fourth fastener is 4".
- Right edge: Six fasteners. The distance between the top and second fastener is 6". The distance between the third and fourth fastener is 9 1/2" MAX. The distance between the fifth and sixth fastener is 6".
- Bottom edge: Four fasteners. The distance between the first and second fastener is 19 7/16" MAX.
- Left edge: Six fasteners. No dimensions are explicitly labeled for this edge.

The central area of the frame contains three parallel diagonal lines, indicating a specific material or finish. The frame is shown in a perspective view, with the top and bottom edges slightly angled.

ION-51.

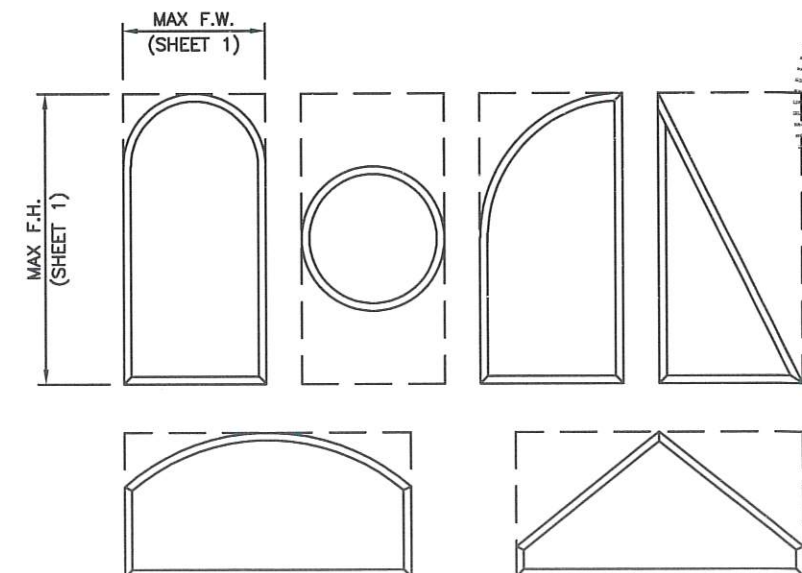
9 1/4" 12 3/4" 12 3/4" 9 1/4"

- STRAP ANCHOR 0566016 WITH (2) FASTENERS PER FRAME ANCHOR CHART ON SHEET 5.
- MULLION ANCHOR FASTENER, (2) PER LOCATION, PER NOTES AND DETAILS ON SHEET 6.
- WEEP SLOT AND COVER 069.6831.04, (3) PER VENT FOR FRAME WIDTHS $\leq 48"$. FOR FRAME WIDTHS $> 48"$, LOCATED $7\frac{1}{2}"$ FROM CORNERS AND $19\frac{7}{16}"$ MAX. O.C.
- FIXED FRAME DECOMPRESSION (2" GAP IN EXTERIOR GASKET)
- GLASS SETTING BLOCK OR SIDE BLOCK.
(SETTING BLOCKS AT $1/4$ POINTS, (2) PER LITE)



ALTERNATE WINDOW SHAPES

Alternate window shapes, including but not limited to those shown below, are approved for use provided they fit inside the overall frame dimensions shown on Sheet 1.

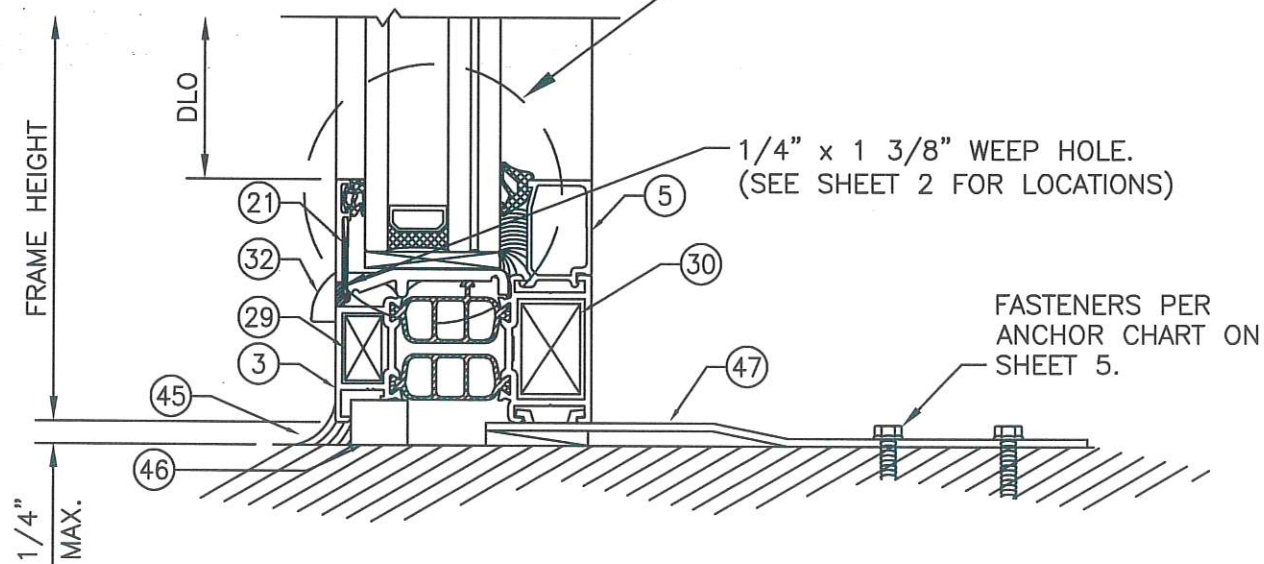
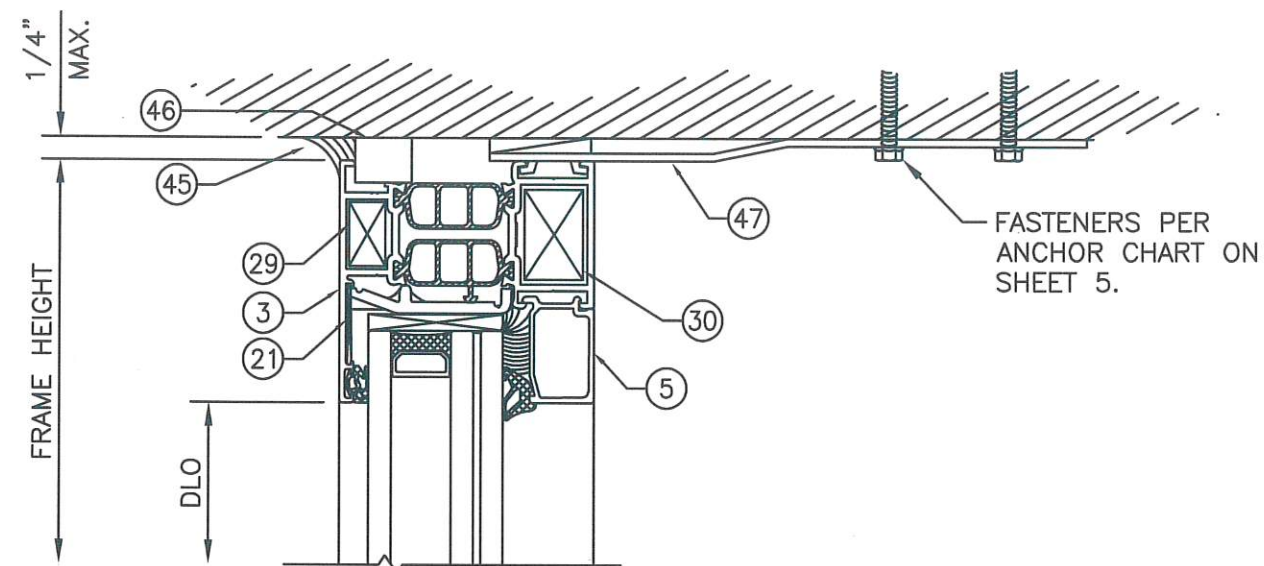


		CS77 SERIES FIXED WINDOW (HVHZ)	
SCOTT WOLTERS FL PE# 62354		CS77 SERIES FIXED WINDOW (HVHZ)	
WOLTERS ENGINEERING [®] (COA# 27194) 15211 97TH ROAD N. WEST PALM BEACH, FL 33412		REYNAERS, INC. 2115 REXFORD ROAD, SUITE 215 CHARLOTTE, NC 28211 info@reynaers.us www.reynaers.us	
DRAWING NO.		REV.	
CS77FIX80-HZ		DESCRIPTION	
SHEET NO.		FIRST SUBMITTAL	
2 OF 7		DATE	
		10/15/26	

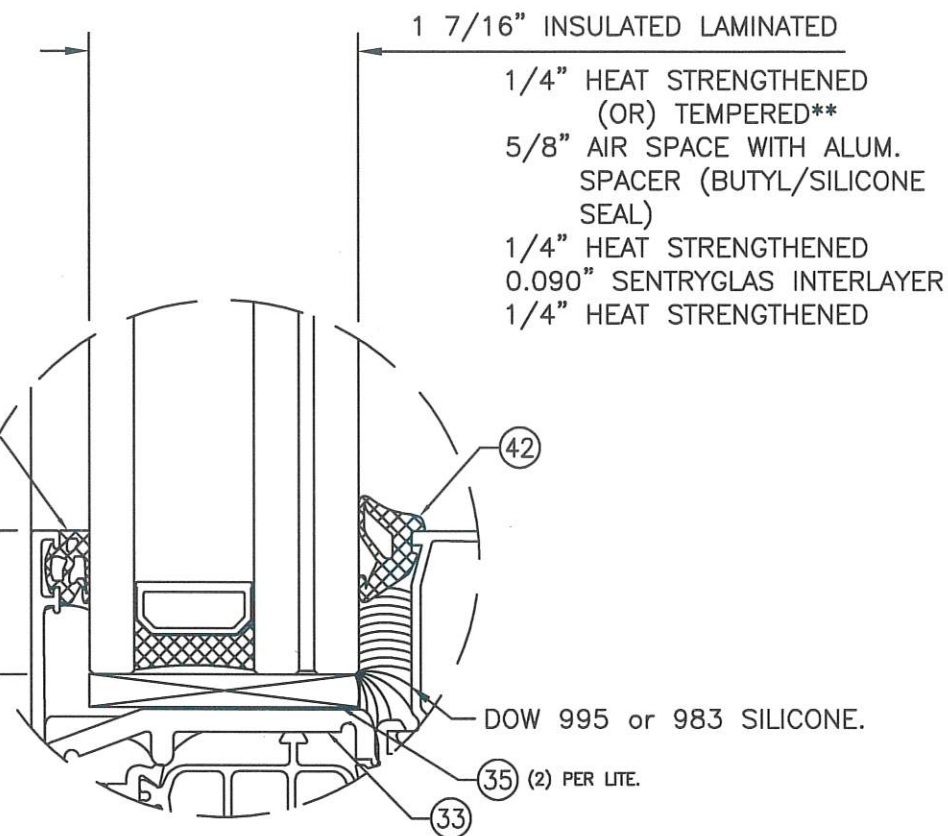
1
3

2
3

EXTERIOR



3/4" GLASS
BITE



GLAZING DETAIL

** IN THE HVHZ, ONLY THE TEMPERED OUTER LITE MAY BE USED FOR OPENINGS MORE THAN 30 FT. ABOVE GROUND LEVEL.

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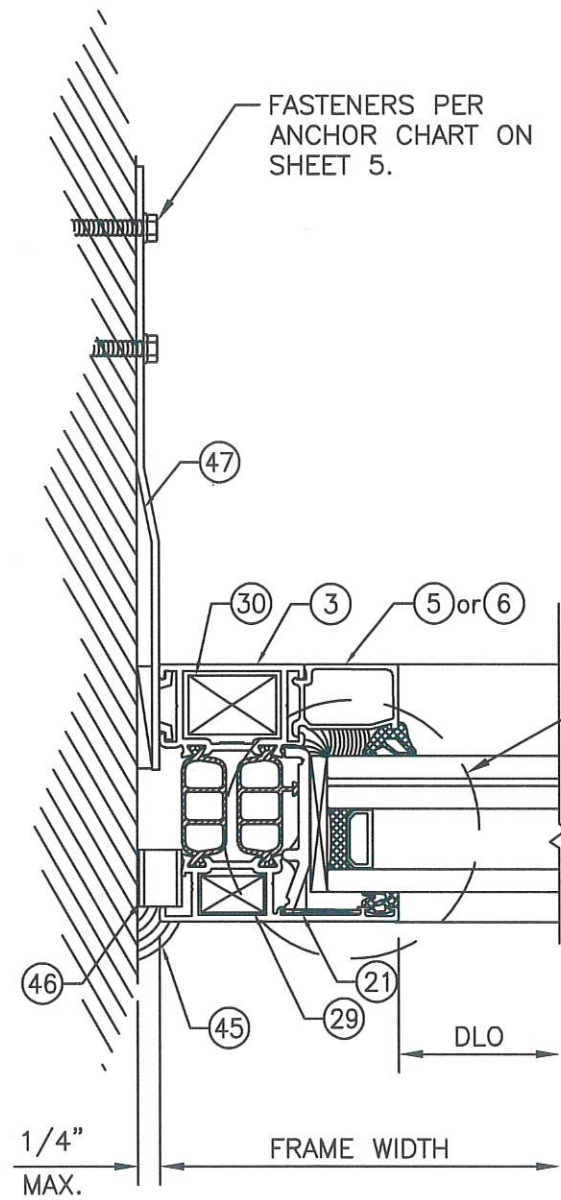
STATE OF
FLORIDA
OCT 15 2026
PROFESSIONAL ENGINEER

DRAWING NO.

CS77FIX80-HZ

SHEET NO.

3 OF 7



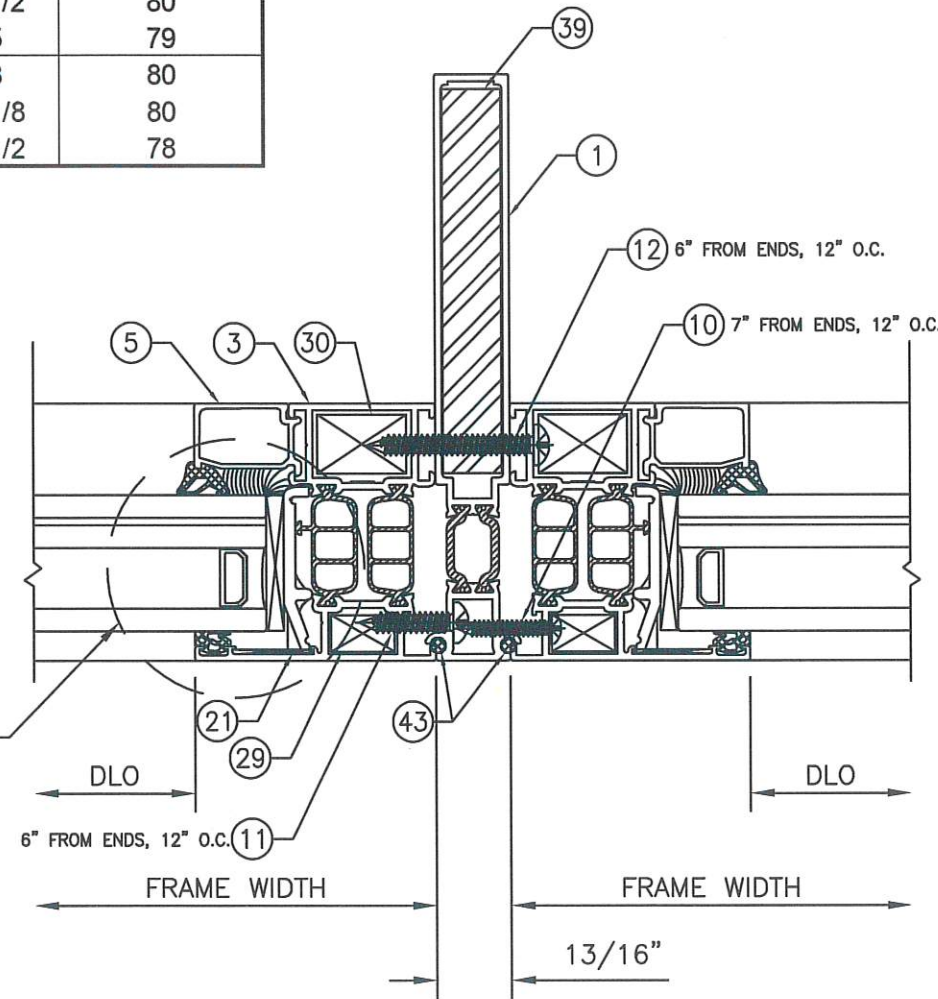
SEE GLAZING DETAIL
ON SHEET 3.

5
4

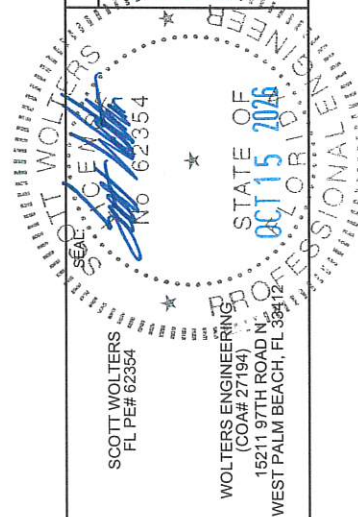
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144 1/4	48	80
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SEE GLAZING DETAIL
ON SHEET 3.

EXTERIOR



6
4



DRAWING NO.
CS77FIX80-HZ
SHEET NO.
4 OF 7

CS77 SERIES FIXED WINDOW (HVHZ)

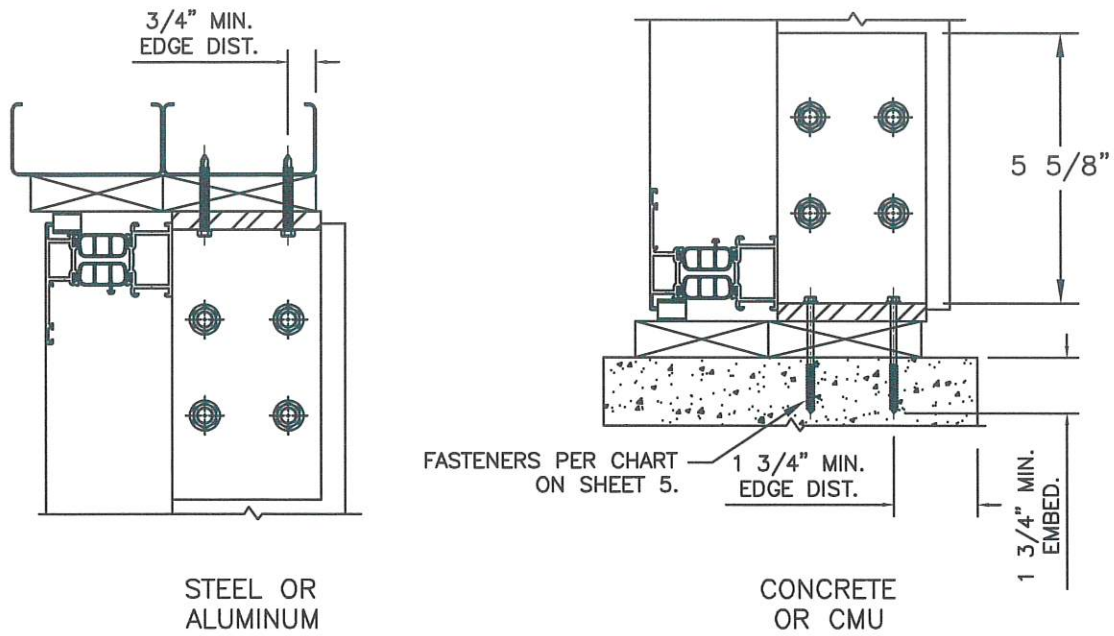
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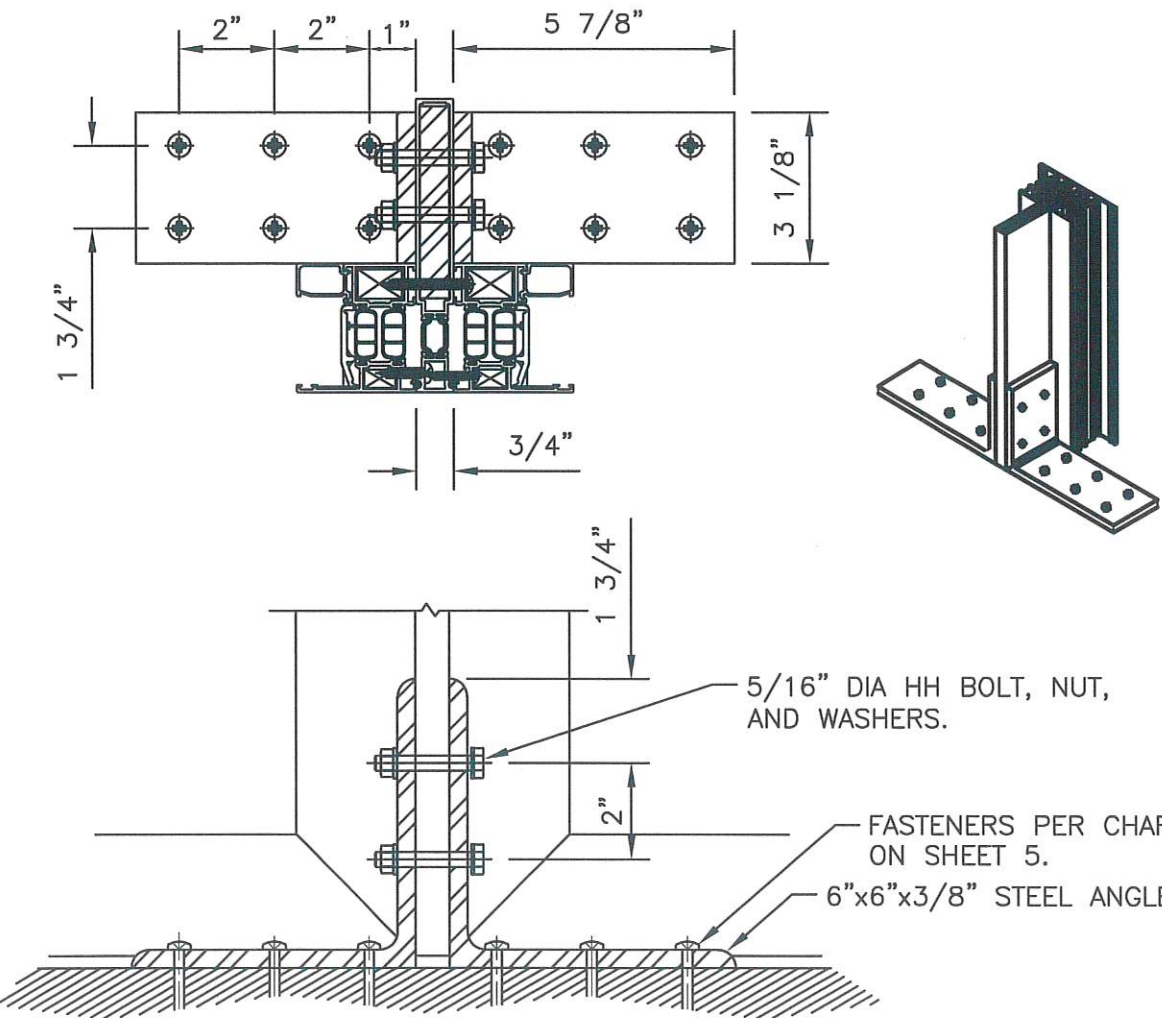
REV.

DATE
10/15/26

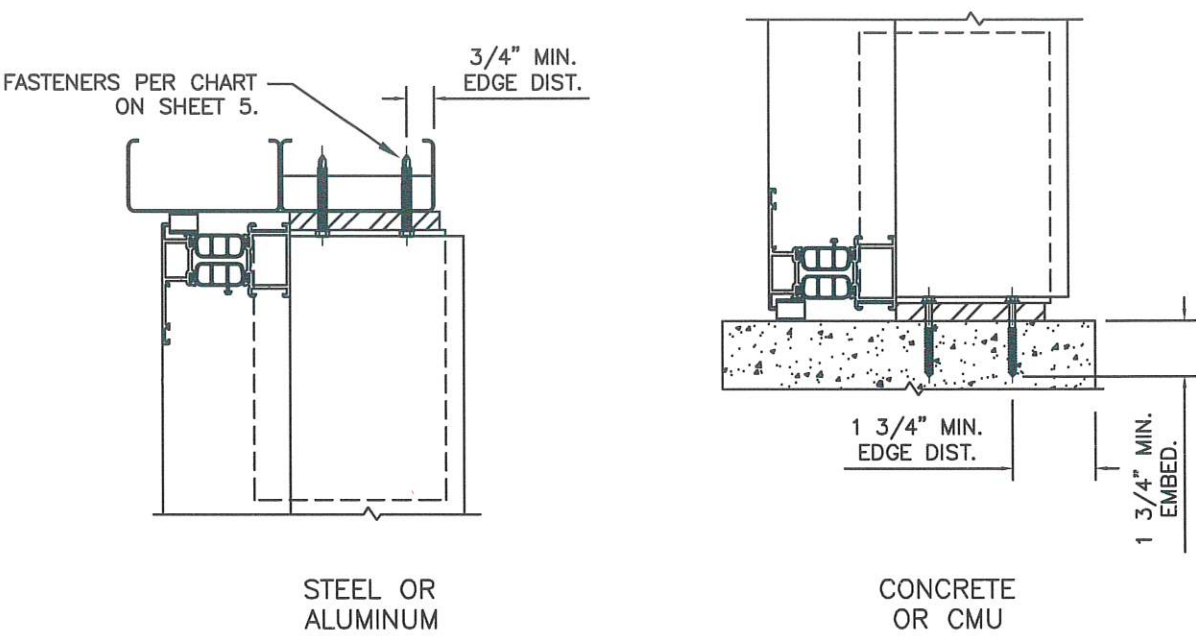
MULLION ANCHOR TYPE 1:



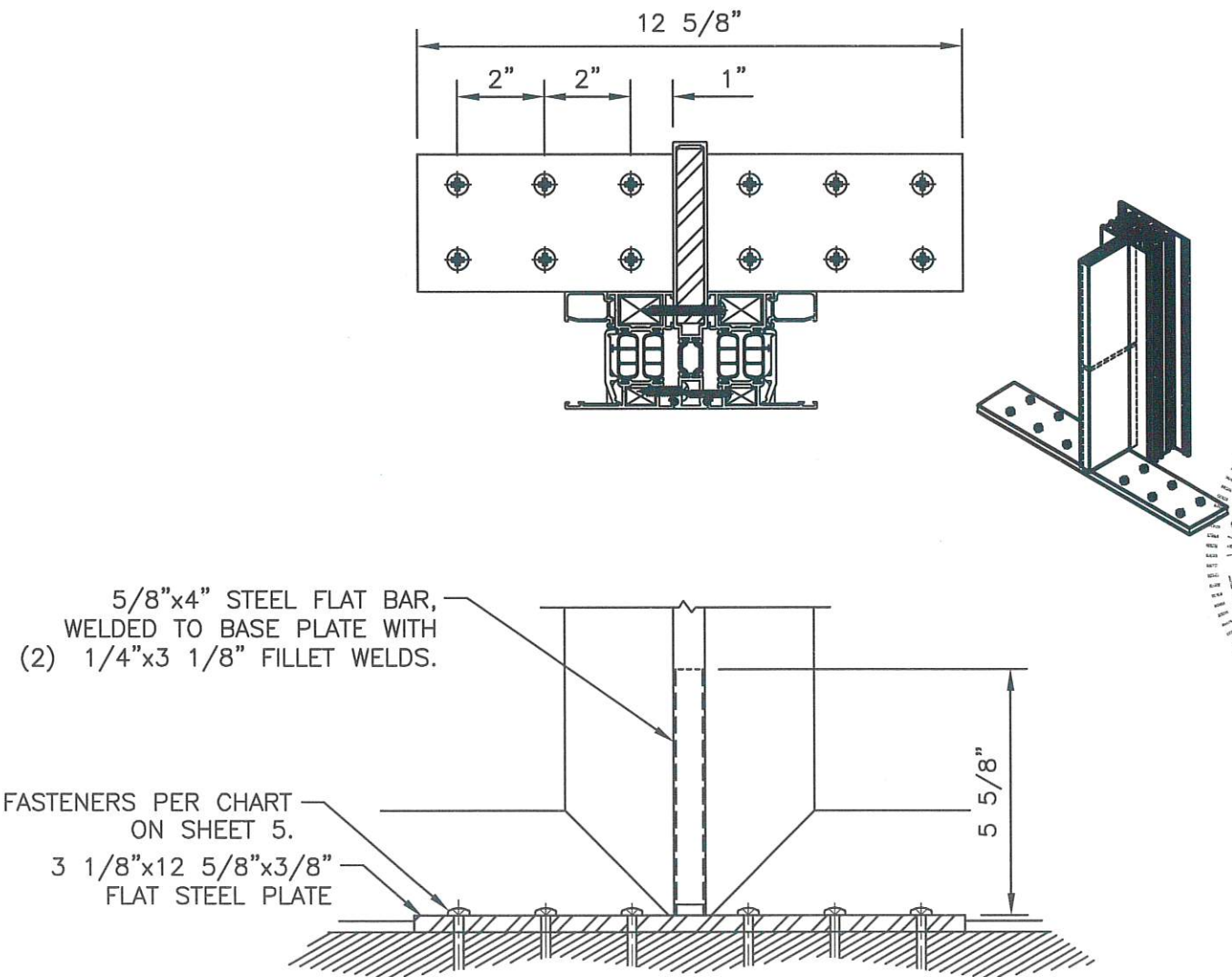
TYPICAL ANCHOR CONDITIONS
WITH OPTIONAL WOOD BUCKS (1x MAX)



MULLION ANCHOR TYPE 2:



TYPICAL ANCHOR CONDITIONS
(ANCHOR TYPES 1 AND 2 MAY BE USED INTERCHANGEABLY)



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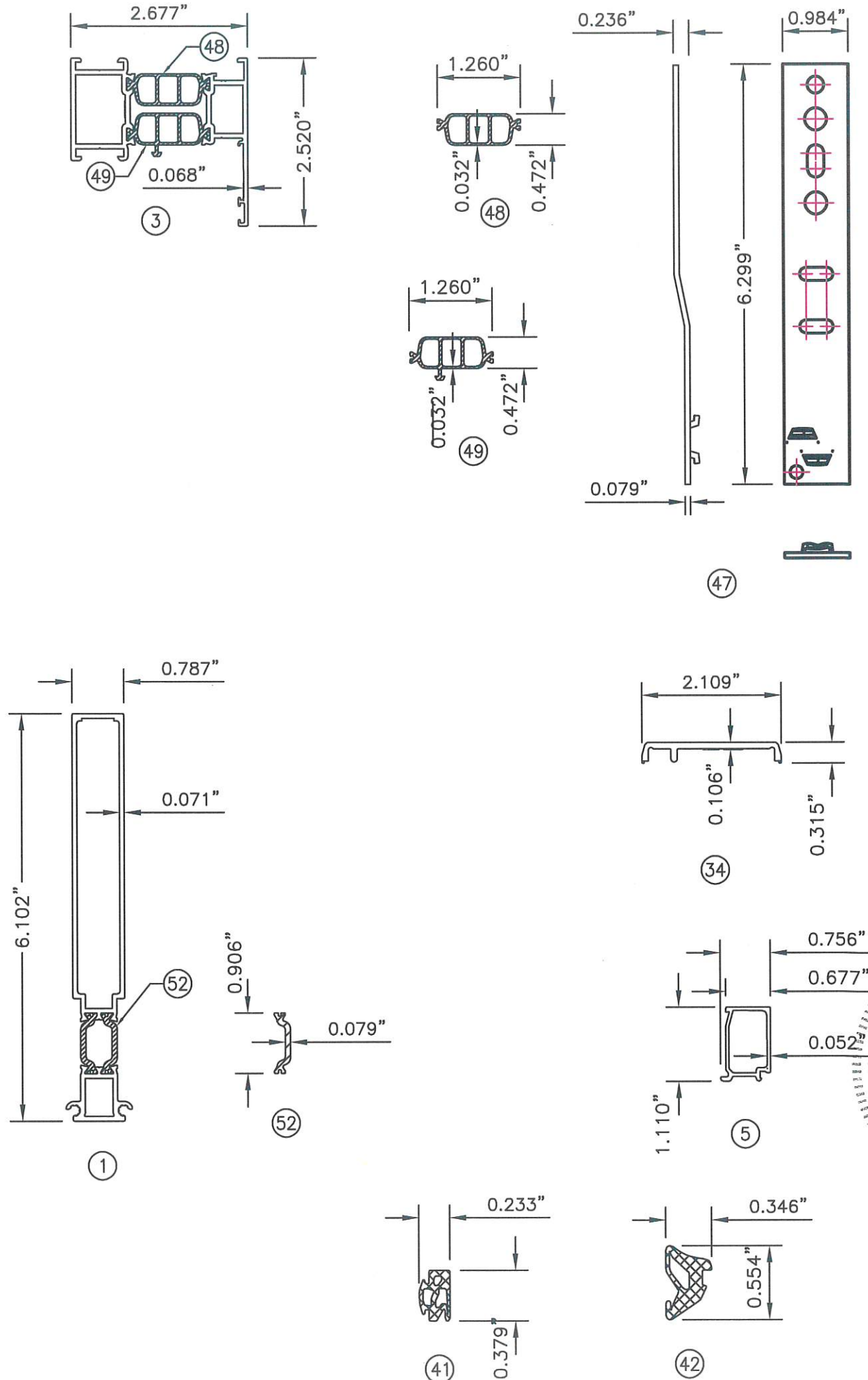
STATE OF FLORIDA
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DRAWING NO.
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SHEET NO.
6 of 7

Bill of Materials					
Profiles					
ID Mark	Part Number	Description	Material	Manufacturer	Notes
1	0060371.51	Connection Profile	AW 6060 T66	Reynaers	
3	0083183.51	Outer Frame 64mm	AW 6060 T66	Reynaers	
5	0303649.51	Glazing Bead	AW 6060 T66	Reynaers	
Accessories and Hardware					
ID Mark	Part Number	Description	Material	Manufacturer	Notes
7	0215169.--	Screw Self-Drilling M5x11	stainless steel	Reynaers	
8	0525310.--	st-Screw din 7981 Inox 4.2x16	stainless steel	Nestinox	
9	0525327.--	Screw DIN 7982 Inox 4.2x25	stainless steel	Fabory	
10	052.5315	M4.2x25 Screw	stainless steel		
11	052.5343	M5.5x25 Screw	stainless steel		
12	052.5340	M5.5x45 Screw	stainless steel		
21	0608746.00	Rebate Support 16.4x3.5	Zamac 5	Pedeo	
28	0687746.00	Crimp Corner Cleats 30.8x10.3x43.3x26.3mm	die cast alu	Monticelli	
29	0687853.00	Crimp Corner Cleat 17.85x10.45	die cast alu	Monticelli or Fratelli	
30	0687952.00	Corner Cleat 26.05x17.4	die cast alu	Fratelli Comunello	
31	0696660.04	end Piece 030.0019.xx	PA	Stockplastics	
32	0696831.04	Weep hole cover	ASA	Custers kunststoffen or	
33	0698704.01	Glass Support	POM	Custers kunststoffen	
34	0698748.01	Glass Support	POM	Custers kunststoffen	
35		Glass Setting Block/Corner Block	Neoprene		(2)/Sill, (1)/ea. Jamb, (1)/Head
36	0849108.--	Reynafix	synthetic rubber	Novatio	
37	0869208.SY	Reynaprotector	silicone	Weiss Chemie + Technik	
38	0849080.--	Reynaseal duo	Cosmofen duo	Weiss Chemie + Technik	
39		5/8" x 4" Steel Reinforcing	Steel (Galv. or Primer finish)		
Gaskets					
ID Mark	Part Number	Description	Material	Manufacturer	Notes
40	0808442.04	Acoustic Gasket	EPDM + cellular EPDM	Polecex	
41	8809114.04	Outer Glazing Gasket	EPDM	Polecex	
42	8809126.04	Inner Glazing Gasket	EPDM	Polecex	
43	0809381.04	Gasket 4.3mm	EPDM foam	Polecex	Install with Sealant
Building Connection					
ID Mark	Part Number	Description	Material	Manufacturer	Notes
45		Silicone DC 790	silicone	Dow Corning	
46		Ilmod 600 15/5-10mm	PU foam	Tremco Ilbruck	
47**	0566016.--	Fixing lug**	low carbon galvanized steel	MS Decoupe	
Thermal Breaks					
ID Mark	Part Number	Description	Material	Manufacturer	Notes
48	000.0865.04	Frame Thermal Brake	Tecatherm 66 GF	Ensinger	
49	000.0866.04	Frame Thermal Break	Tecatherm 66 GF	Ensinger	
52	000.0840.04	Mullion Thermal Break	Tecatherm 66 GF	Ensinger	

** Within 3000 ft of a Saltwater Coastline, the Fixing Lug Must be Either Galvanized to Meet ASTM A653 G908 Galvanized per ASTM A123 to 2.0 oz/sqft, or Coated to Meet ANSI TPI 1.



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