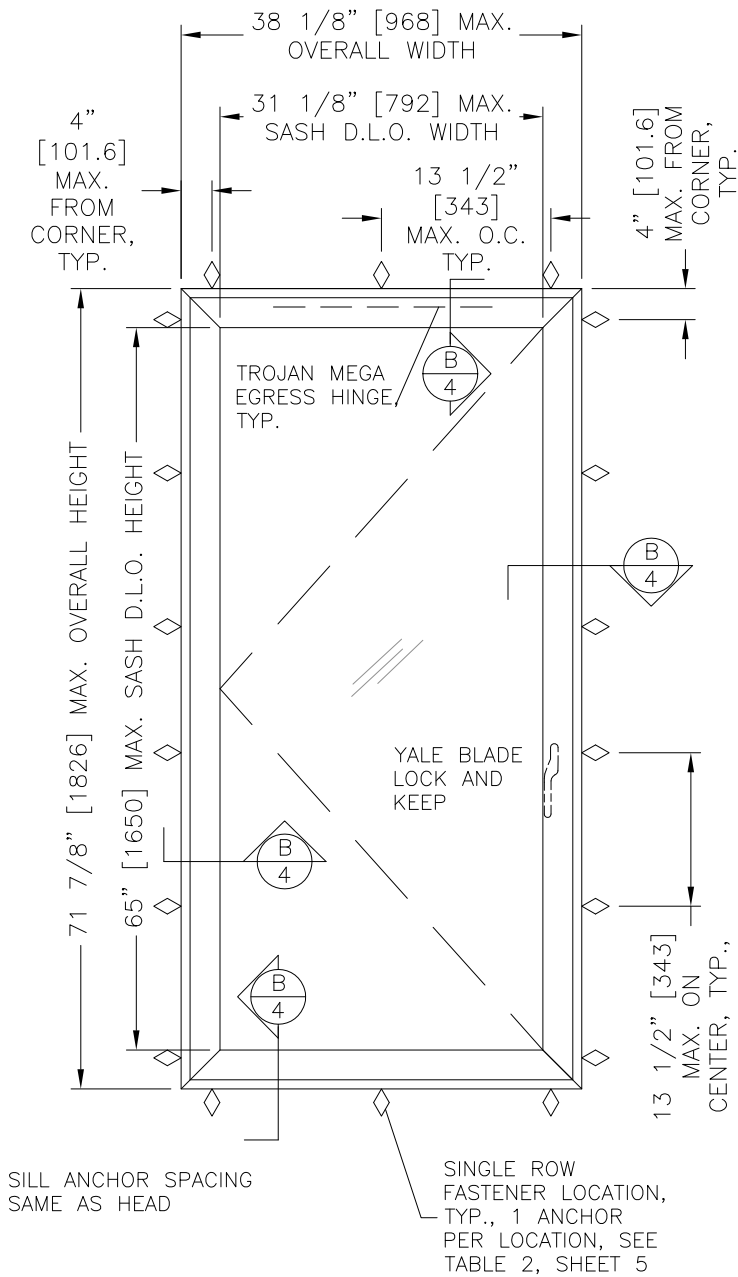
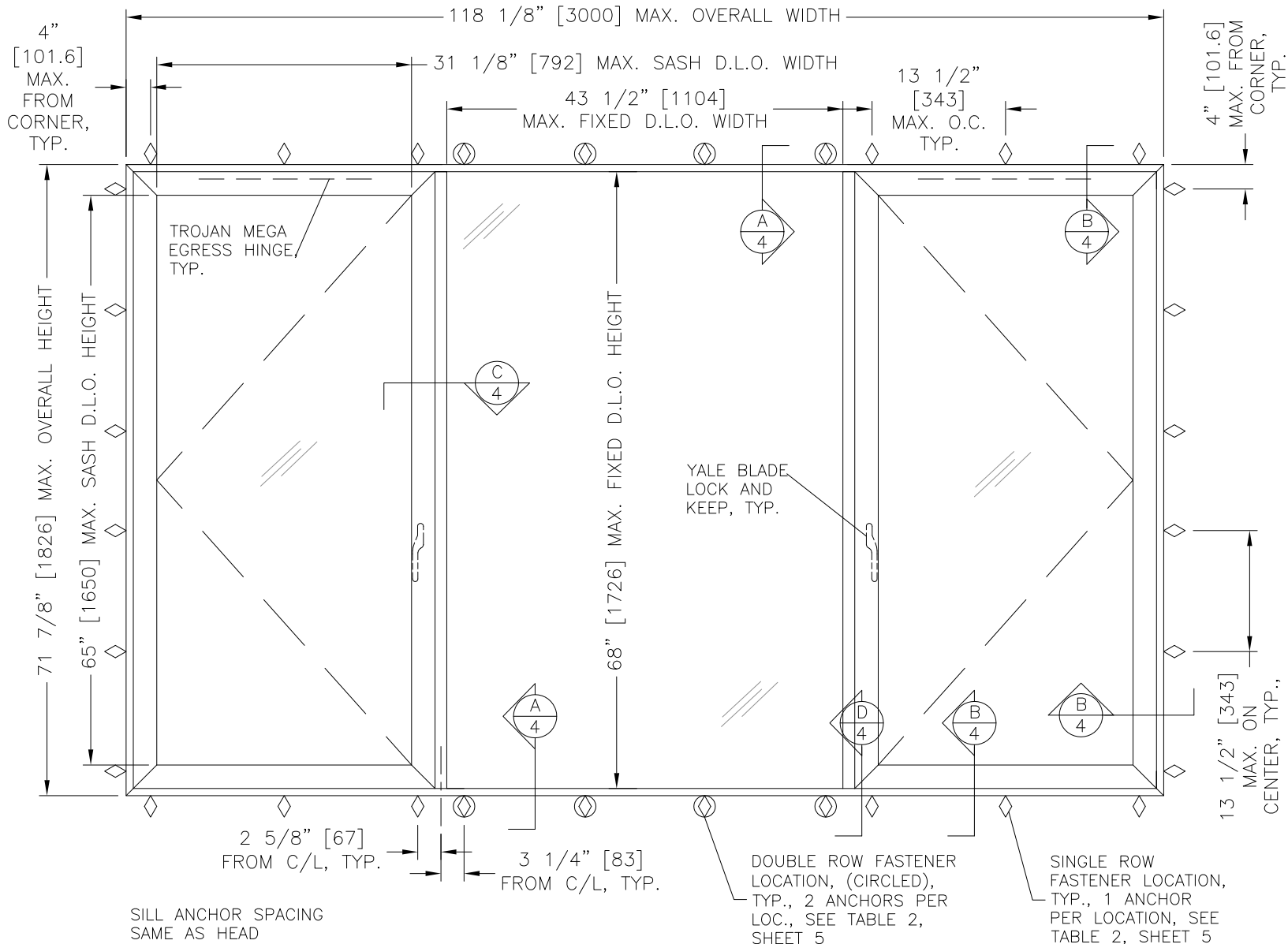


ORIGIN CASEMENT AND CASEMENT/FIXED WINDOWS – NON-IMPACT

SHEET	DESCRIPTION
1.....	ELEVATIONS, GEN. NOTES
2.....	ELEVATIONS
3.....	DESIGN PRESSURE TABLES
4.....	SECTION DETAILS
5.....	ANCHORAGE DETAILS, NOTES
6.....	B.O.M., JOINERY, PART DRAWINGS



X EXTERIOR ELEVATION



XOX EXTERIOR ELEVATION

GENERAL NOTES

1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS NON-IMPACT RESISTANT AND REQUIRES THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.
2. THIS PRODUCT HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, NOT INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
3. ALLOWABLE CONFIGURATIONS: X (SINGLE VENT), XX (DOUBLE VENT), XOX (VENT-FIXED-VENT), XO OR OX (VENT-FIXED OR FIXED-VENT)
4. THE DESIGN PRESSURE RATINGS AS SHOWN IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, TESTED WATER AND STRUCTURAL PRESSURES, AND COMPARATIVE ANALYSIS.
5. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
6. INSTALLATION OF 1X OR 2X WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVE THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR A.H.J.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC CHAPTER 20 TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH 6063-T5. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
8. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND IS NOT ADDRESSED BY THIS DOCUMENT.



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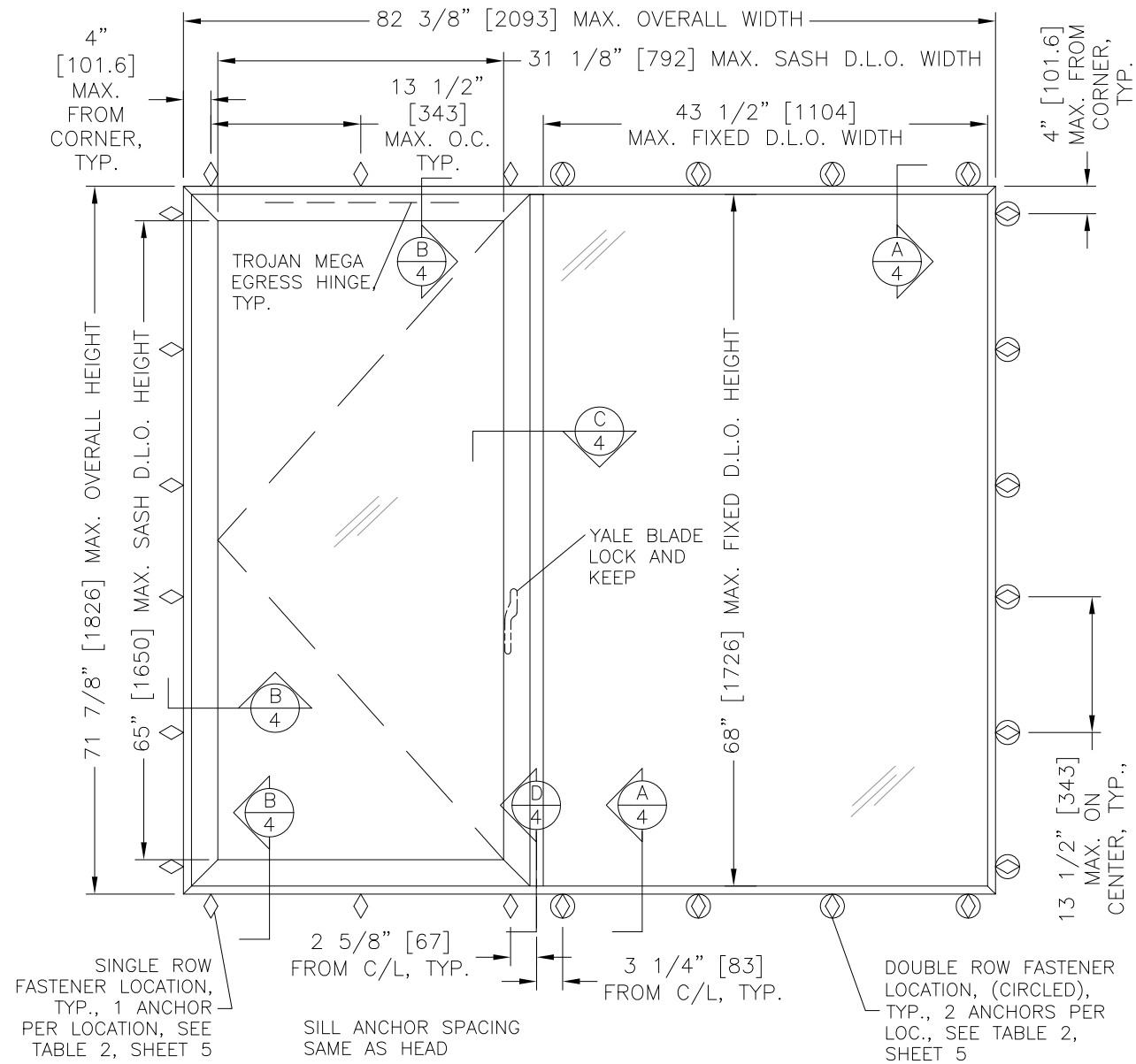


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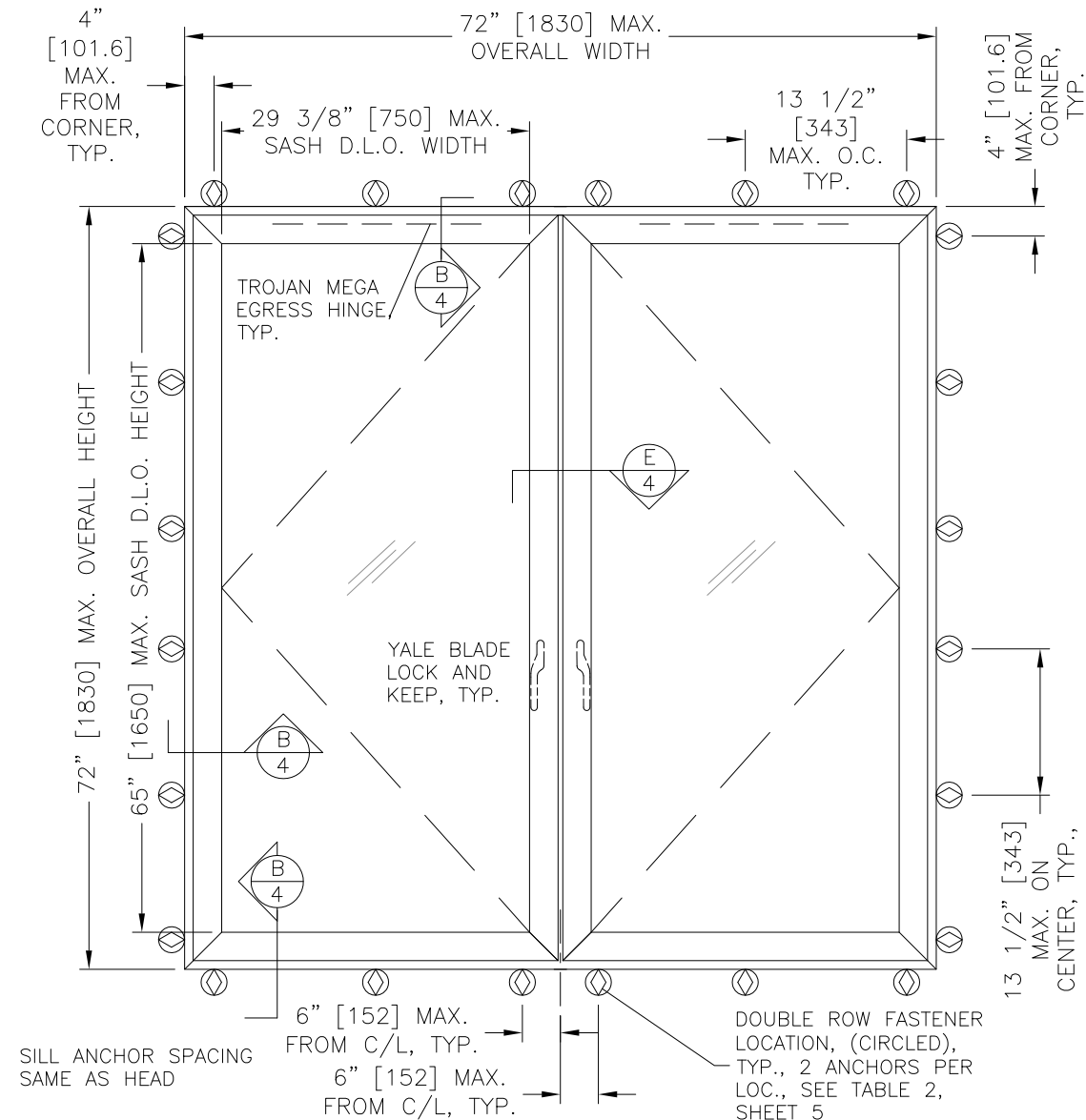
ORIGIN ALUMINUM
CASEMENT/FIXED WINDOW
NON-IMPACT

DRAWN BY:	LAT
DATE:	10/11/17
SCALE:	NTS
REVISION:	
REVISION 10/20/2023:	B: 2023 UPDATE
DRAWING #	FPA-CA-NI
SHEET DESCRIPTION	NOTES, ELEVATION
SHEET	1 of 6

Lucas
Turner
2023.10.20
16:43:45
-05'00'



XO OR OX EXTERIOR ELEVATION



XX EXTERIOR ELEVATION



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SHEET DESCRIPTION

ELEVATIONS

SHEET
2 of 6

Table 1. XOX and XO (or OX) Allowable Design Pressures (psf)

XOX Overall Frame Width (in.)	XO Overall Frame Width (in.)	Fixed DLO Width (in.)	Sash DLO Width (in.)	Overall Frame Height (in.)								
				24	30	36	42	48	54	60	66	71 7/8
53 1/8	36 1/2	16 3/4	12	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0
66 3/4	46 1/8	22 3/8	16	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-70.1
80 3/8	55 3/4	28	20	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-69.1	+55.0/-62.1
93 7/8	65 1/4	33 1/2	24	+55.0/-75.0	+55.0/-71.3	+55.0/-71.0	+55.0/-71.0	+55.0/-71.0	+55.0/-71.0	+55.0/-71.0	+55.0/-62.9	+55.0/-56.3
107 1/2	74 7/8	39 1/8	28	+55.0/-63.1	+55.0/-57.7	+55.0/-56.1	+55.0/-56.1	+55.0/-56.1	+55.0/-56.1	+55.0/-56.1	+55.0/-56.1	+55.0/-51.9
118 1/8	82 3/8	43 1/2	31 1/8	+55.0/-56.0	+55.0/-51.2	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0

Table 2. XX Allowable Design Pressures (psf)

XX Overall Frame Width (in.)	Sash DLO Width (in.)	Overall Frame Height (in.)								
		24	30	36	42	48	54	60	66	72
36	11 3/8	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0
42	14 3/8	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0
48	17 3/8	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-81.0
54	20 3/8	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-90.0	+55.0/-82.3	+55.0/-73.8
60	23 3/8	+55.0/-90.0	+55.0/-86.4	+55.0/-86.4	+55.0/-86.4	+55.0/-86.4	+55.0/-86.4	+55.0/-86.4	+55.0/-76.2	+55.0/-68.2
66	26 3/8	+55.0/-77.1	+55.0/-72.0	+55.0/-71.4	+55.0/-71.4	+55.0/-71.4	+55.0/-71.4	+55.0/-71.4	+55.0/-71.4	+55.0/-63.7
72	29 3/8	+55.0/-67.5	+55.0/-61.7	+55.0/-60.0	+55.0/-60.0	+55.0/-60.0	+55.0/-60.0	+55.0/-60.0	+55.0/-60.0	+55.0/-60.0

Table 3. X Allowable Design Pressures (psf)

X Overall Frame Width (in.)	Sash DLO Width (in.)	Overall Frame Height (in.)								
		24	30	36	42	48	54	60	66	71 7/8
20	13	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0
24	17	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-70.1
28	21	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-75.0	+55.0/-69.1	+55.0/-62.1
32	25	+55.0/-75.0	+55.0/-71.3	+55.0/-71.0	+55.0/-71.0	+55.0/-71.0	+55.0/-71.0	+55.0/-71.0	+55.0/-62.9	+55.0/-56.3
36	29	+55.0/-63.1	+55.0/-57.7	+55.0/-56.1	+55.0/-56.1	+55.0/-56.1	+55.0/-56.1	+55.0/-56.1	+55.0/-56.1	+55.0/-51.9
38 1/8	31 1/8	+55.0/-56.0	+55.0/-51.2	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0	+55.0/-50.0



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ORIGIN ALUMINUM
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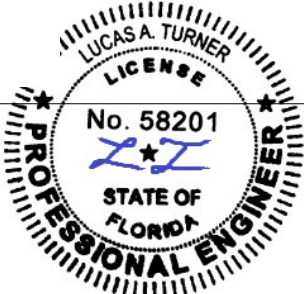
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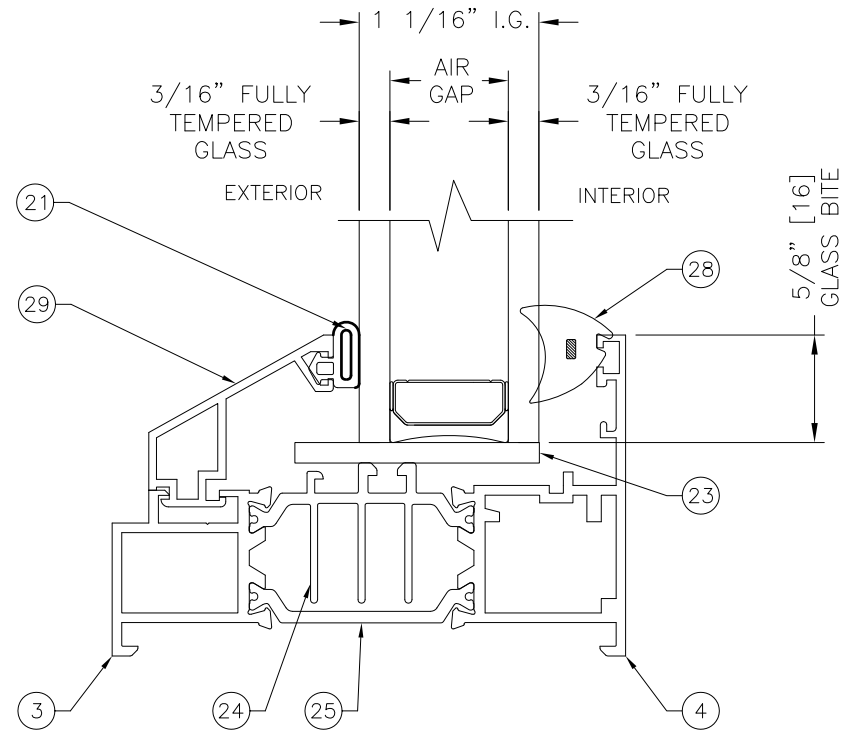
SHEET DESCRIPTION

DESIGN
PRESSURE
TABLES

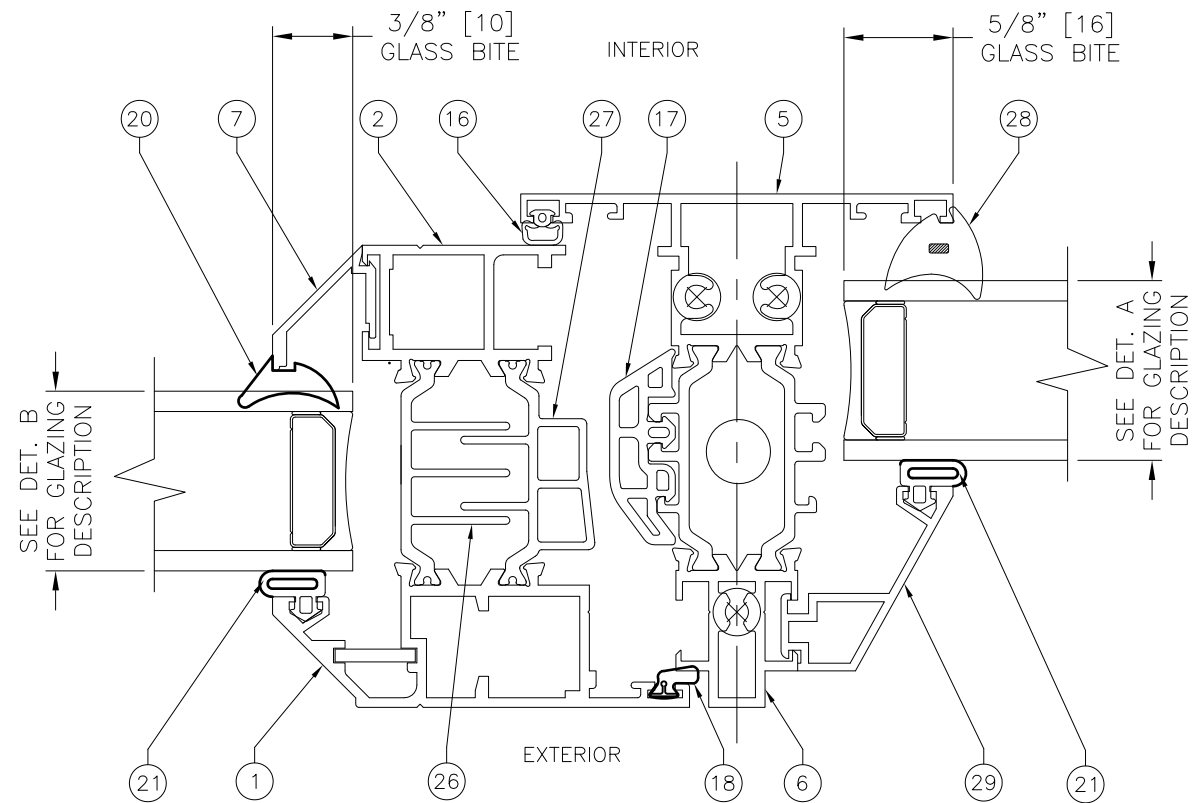
SHEET
3 of 6



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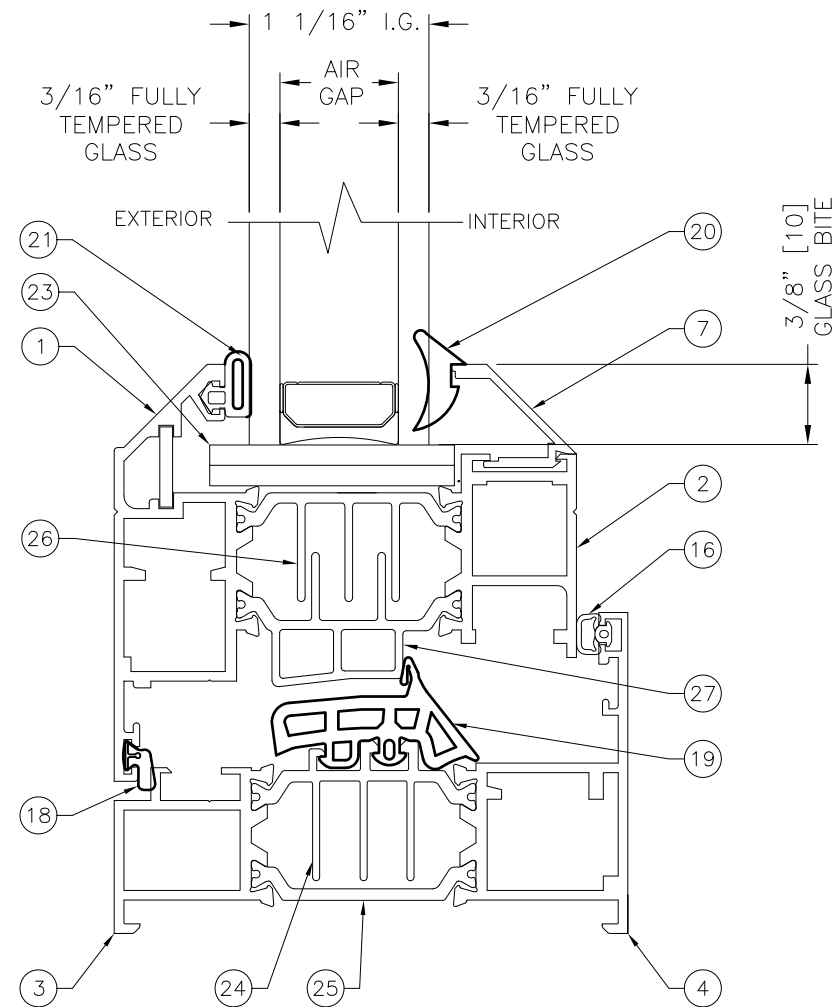


DETAIL A. TYPICAL SECTION FIXED HEAD, SILL, AND JAMB

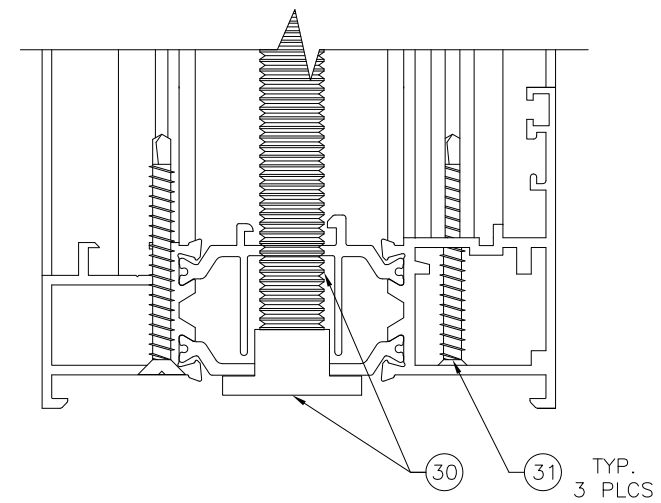


DETAIL C. TYPICAL XO MULLION (AS SHOWN)

DETAIL E. TYPICAL XX MULLION
(SIM. W/ SASH BOTH SIDES)



DETAIL B. TYPICAL SECTION SASH HEAD, SILL, AND JAMB



DETAIL D. TYPICAL MULLION ASSEMBLY



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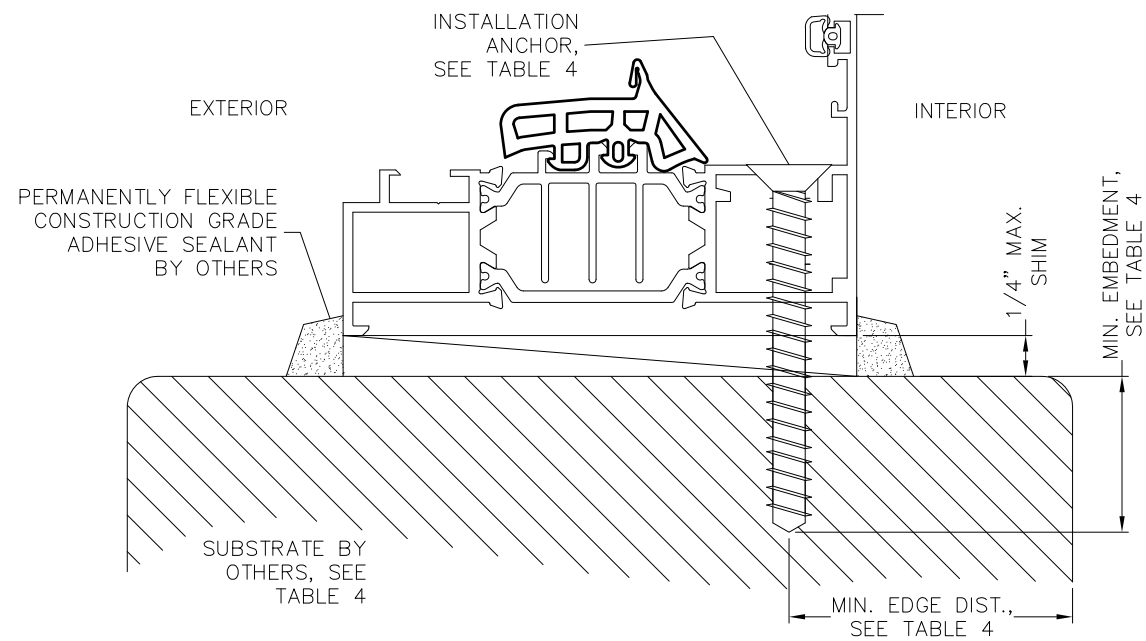
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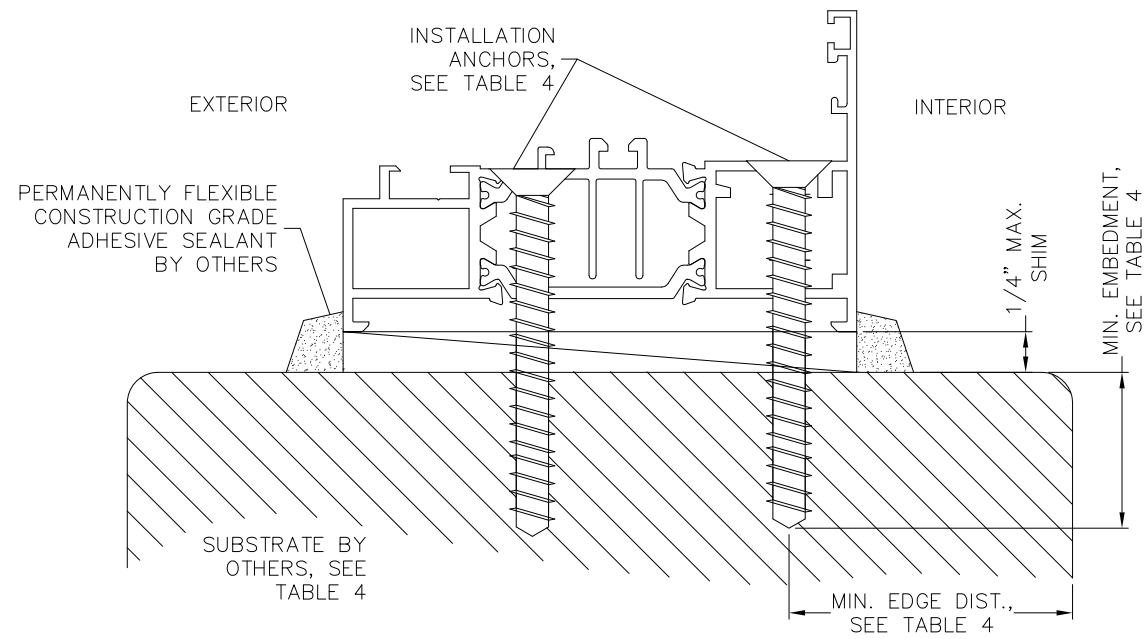
SHEET DESCRIPTION

SECTION
DETAILS

SHEET
4 of 6



TYPICAL SINGLE ROW INSTALLATION AT SASH HEAD, SILL, AND JAMB



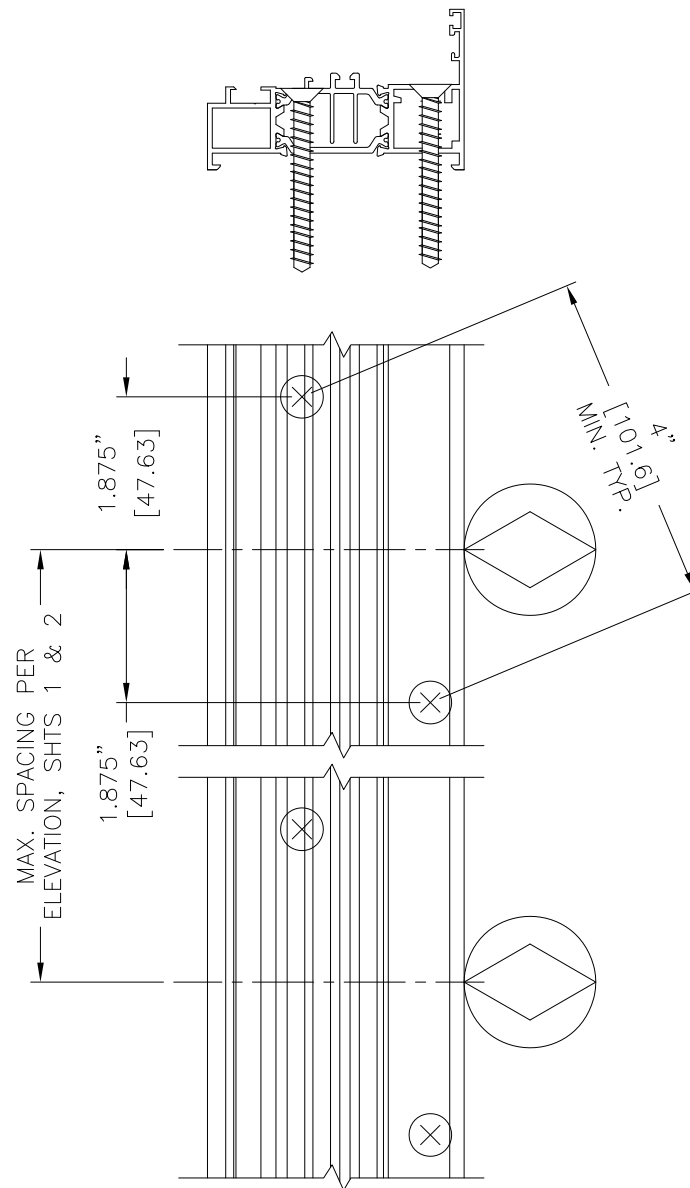
TYPICAL DOUBLE ROW INSTALLATION AT FIXED HEAD AND SILL

TABLE 4: INSTALLATION ANCHOR REQUIREMENTS TABLE

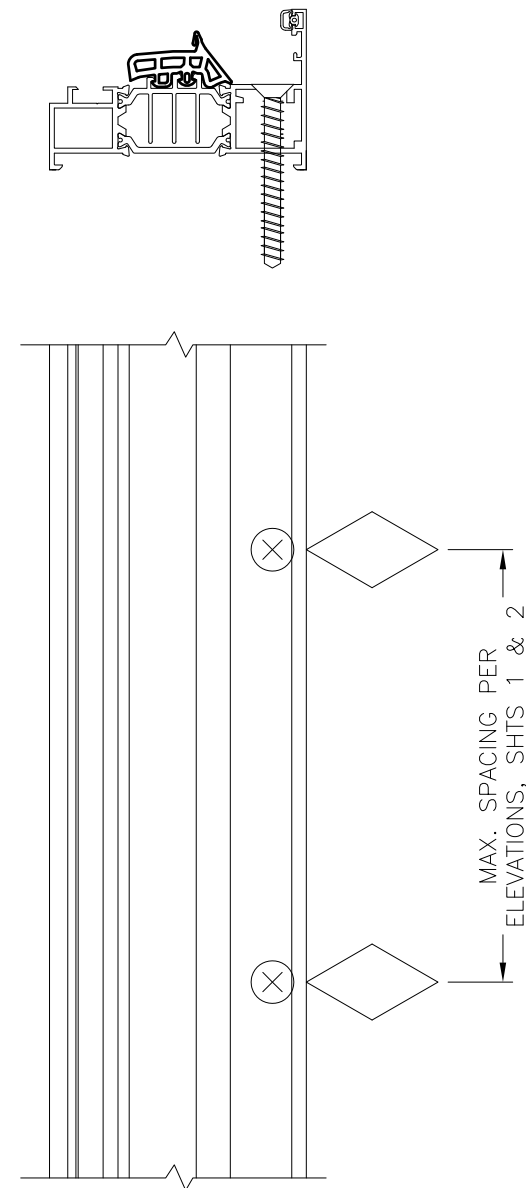
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN)	1/4" ITW TAPCON	1"	1 1/2"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	1/4 ITW TAPCON	1"	2"
CONCRETE (3.05 KSI MIN.)	1/4" DEWALT ULTRACON+	1-3/8"	1"
HOLLOW OR GROUT-FILLED CMU (ASTM C90)	1/4" DEWALT ULTRACON+	1-1/4"	1"
2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	1/4" ITW TAPCON OR 1/4" ELCO ULTRACON	1-3/8"	1"
2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	#12 WOOD SCREW	1-3/8"	1"
16 GAUGE (0.060") MIN. STEEL STUD 33KSI YIELD MIN.	#12-24 ITW TEKS SELF-DRILLING SCREW	SEE ANCHOR NOTE 5	1/2"
1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 36 KSI MIN.	#12 GRADE 5 SELF-TAPPING/ DRILLING SCREW	SEE ANCHOR NOTE 5	1/2"

GENERAL ANCHOR NOTES:

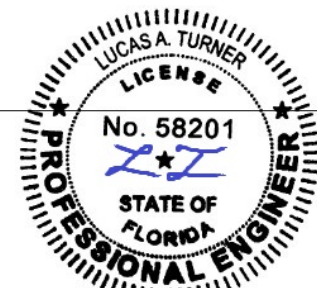
1. INSTALL TWO ANCHORS IN STAGGERED PATTERN AS SHOWN ABOVE AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEETS 1 AND 2 FOR PRODUCT PERIMETER. USE ANCHORS APPROPRIATE FOR SUBSTRATE TYPE (SEE TABLE 4).
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO.
5. FOR INSTALLATION TO METAL SUBSTRATES, ANCHORS SHALL BE LONG ENOUGH TO BE FULLY THREADED THROUGH THE METAL THICKNESS WITH AN ADDITIONAL 3/16" MIN. OF THREADS BEYOND.
6. A MINIMUM CENTER-TO-CENTER SPACING OF 4" SHALL BE MAINTAINED BETWEEN ALL CONCRETE OR CMU ANCHORS IN ANY DIRECTION. CONCRETE/MASONRY SUBSTRATES SHALL NOT BE CRACKED.



STAGGERED ANCHOR
PATTERN AT DOUBLE ROW



STANDARD ANCHOR
PATTERN AT SINGLE ROW



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ORIGIN ALUMINUM
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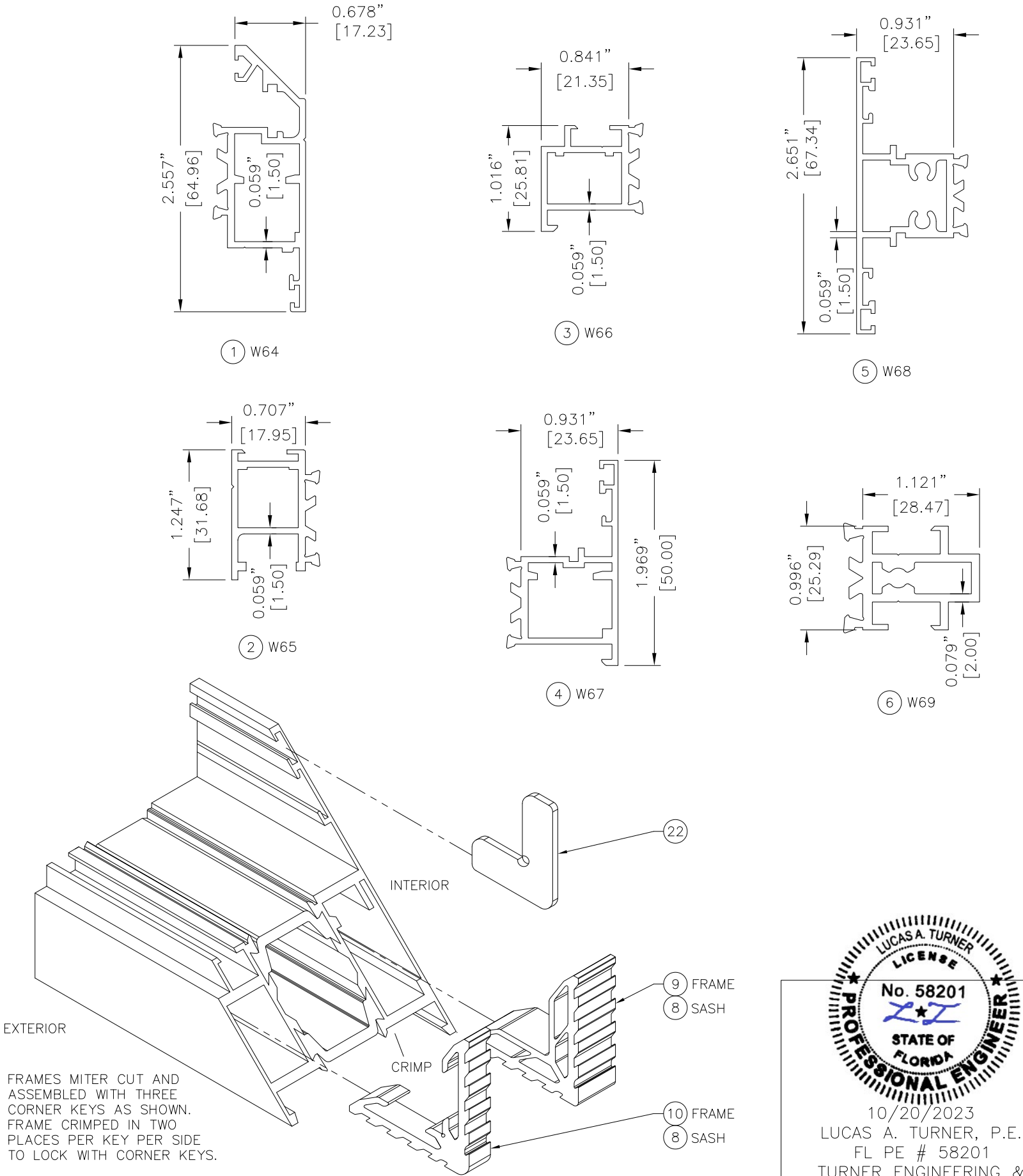
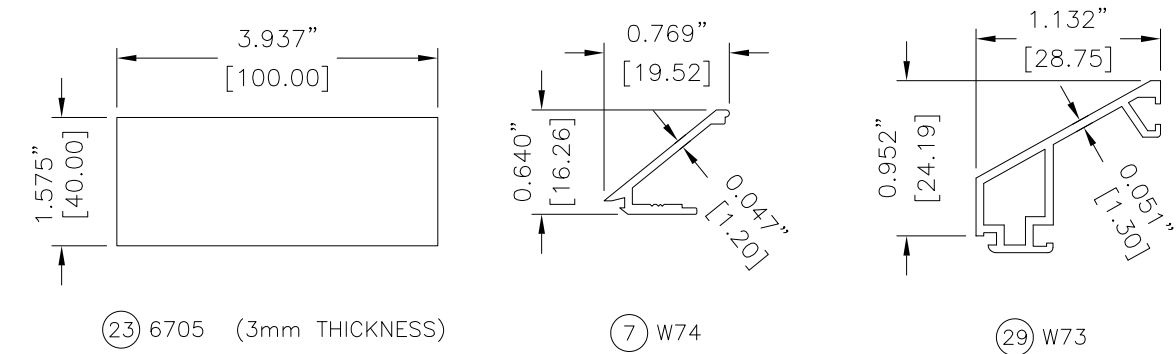
SHEET DESCRIPTION

INSTALLATION
DETAILS

SHEET
5 of 6

BILL OF MATERIALS

Detail Number:	Part Number:	Supplier:	Part Identification:	Material:
1	W64	CORTIZO	SASH OUTER PROFILE	ALUMINIUM 6063 T5
2	W65	CORTIZO	SASH INNER PROFILE	ALUMINIUM 6063 T5
3	W66	CORTIZO	FRAME OUTER PROFILE	ALUMINIUM 6063 T5
4	W67	CORTIZO	FRAME INNER PROFILE	ALUMINIUM 6063 T5
5	W68	CORTIZO	MULLION INNER PROFILE	ALUMINIUM 6063 T5
6	W69	CORTIZO	MULLION OUTER PROFILE	ALUMINIUM 6063 T5
7	W74	CORTIZO	SASH BEAD	ALUMINIUM 6063 T5
8	W75-14.4	CORTIZO	CLEAT 14.4	ALUMINIUM 6063 T5
9	W75-17.8	CORTIZO	CLEAT 17.8	ALUMINIUM 6063 T5
10	W76	CORTIZO	CLEAT 9.5	ALUMINIUM 6063 T5
11	WFHGSB103	ERA SECURITY	SAC BOLT	MILD ZINC AND CLEAR
12	WFHGSK201	ERA SECURITY	SAC BOLT KEEP	MILD ZINC AND CLEAR
13	B20DL	YALE	BLADE LOCK	ALUMINIUM
14	BK3460-01	YALE	BLADE LOCK KEEP	ALUMINIUM
15	0115-2013-E-135	TROJAN	MEGA EGRESS HINGE	430 STAINLESS STEEL
16	4028	STAC	FRAME GASKET	EPDM
17	M-00793-M01	STAC	LOCKING CAVITY GASKET	EPDM
18	QL4636	SCHLEGEL	SASH GASKET	Q-LON
19	RP01164	STAC	CAVITY GASKET	EPDM
20	W488	PLASTECH	INTERNAL WEDGE GASKET	EPDM
21	B2018	PLASTECH	GLAZING GASKET	EPDM
22	99018	CORTIZO	CHEVRON FS	STAINLESS STEEL
23	6705	TP EXTRUSIONS	GLAZING PACKER	PVC
24	418500	CORTIZO	TECHNOFORM STRIP OVER	POLYAMIDE
25	418600	CORTIZO	TECHNOFORM STRIP UNDER	POLYAMIDE
26	418800	CORTIZO	TECHNOFORM STRIP OVER	POLYAMIDE
27	418700	CORTIZO	TECHNOFORM STRIP UNDER	POLYAMIDE
28	W473	PLASTECH	FRAME D WEDGE GASKET	EPDM
29	W73	CORTIZO	FRAME BEAD	ALUM. 6063-T5
30			M10 THREADED ROD/NUT	STEEL
31			#8 x 1 ½" SELF-TAPPING SCREW	STEEL



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ORIGIN ALUMINUM
 CASEMENT/FIXED WINDOW
 NON-IMPACT

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DATE:	10/11/17
SCALE:	NTS
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REVISION	10/20/2023: B: 2023 UPDATE
DRAWING #	FPA-CA-NI
SHEET DESCRIPTION	BOM, PART DWGS, CORNER
SHEET	6 of 6