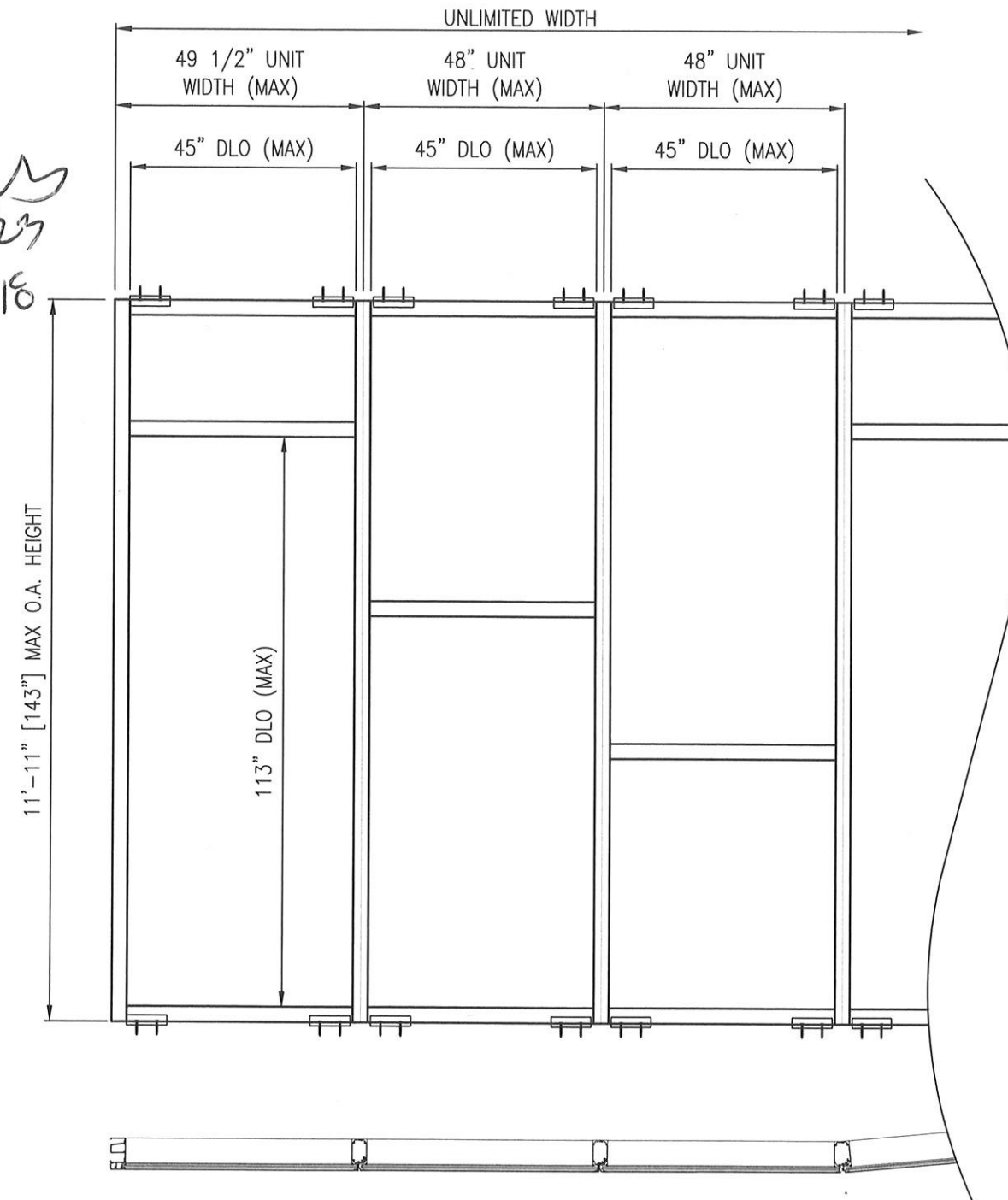
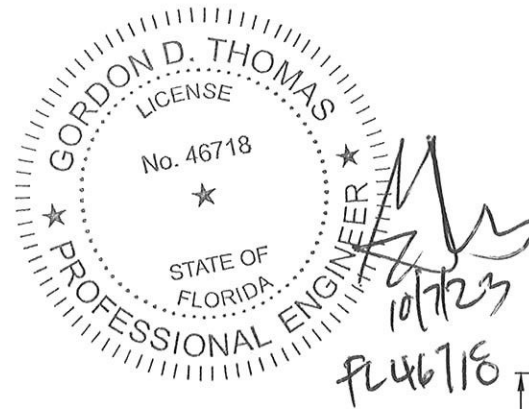


THERMALLY BROKEN
"LARGE MISSILE IMPACT"

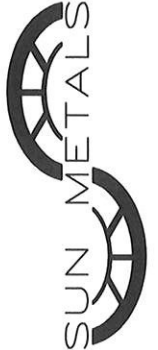


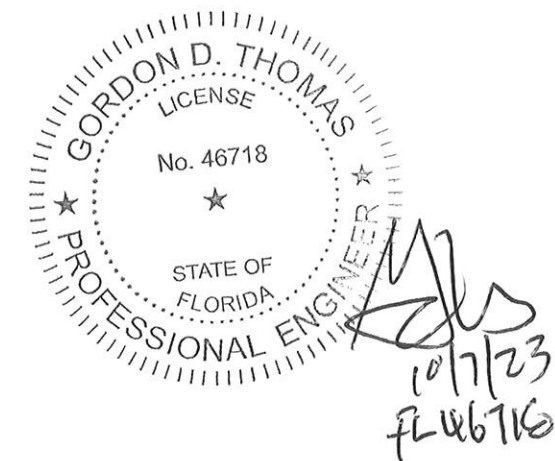
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with Section 1609.1.2 of the 2020 FBC and does not require an impact resistant covering.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. This product meets water infiltration requirements for "HVHZ".

INDEX TO DRAWINGS	
SHEET #	DESCRIPTION
1	GENERAL NOTES, ELEVATION AND DESIGN PRESSURES
2	ELEVATION - CAPTURED/REINFORCED
3	ELEVATION - CAPTURED/NON-REINFORCED
4	ELEVATION - BUTT-GLAZED/REINFORCED
5	ELEVATION - BUTT-GLAZED/NON-REINFORCED
6	HORIZONTAL DETAILS
7	VERTICAL DETAILS
8	VERTICAL DETAILS
9	ANCHORS AND GLAZING
10	COMPONENTS
11	COMPONENTS AND BILL OF MATERIALS

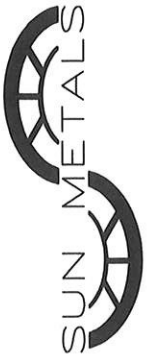
650WS WINDOW WALL DESIGN PRESSURE TABLE								
MAX UNIT HEIGHT	MAX UNIT WIDTH	REINFORCED	GLAZING TYPE	GLAZING CONDITION	MAX. D.L.O. DIMENSION	DESIGN PRESSURE (PSF)		IMPACT RATING
						POSITIVE	NEGATIVE	
143"	48"	YES	GL1	CAPTURED	45" X 113"	+100	-100	LARGE MISSILE IMPACT
143"	48"	YES	GL1	BUTT GLAZED	45" X 113"	+100	-100	LARGE MISSILE IMPACT
143"	48"	NO	GL1	CAPTURED	45" X 113"	+55	-55	LARGE MISSILE IMPACT
143"	48"	NO	GL1	BUTT GLAZED	45" X 113"	+50	-50	LARGE MISSILE IMPACT

5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

[illegible]



5008 TAMPA WEST BLVD.
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FAX: (813) 886-0666



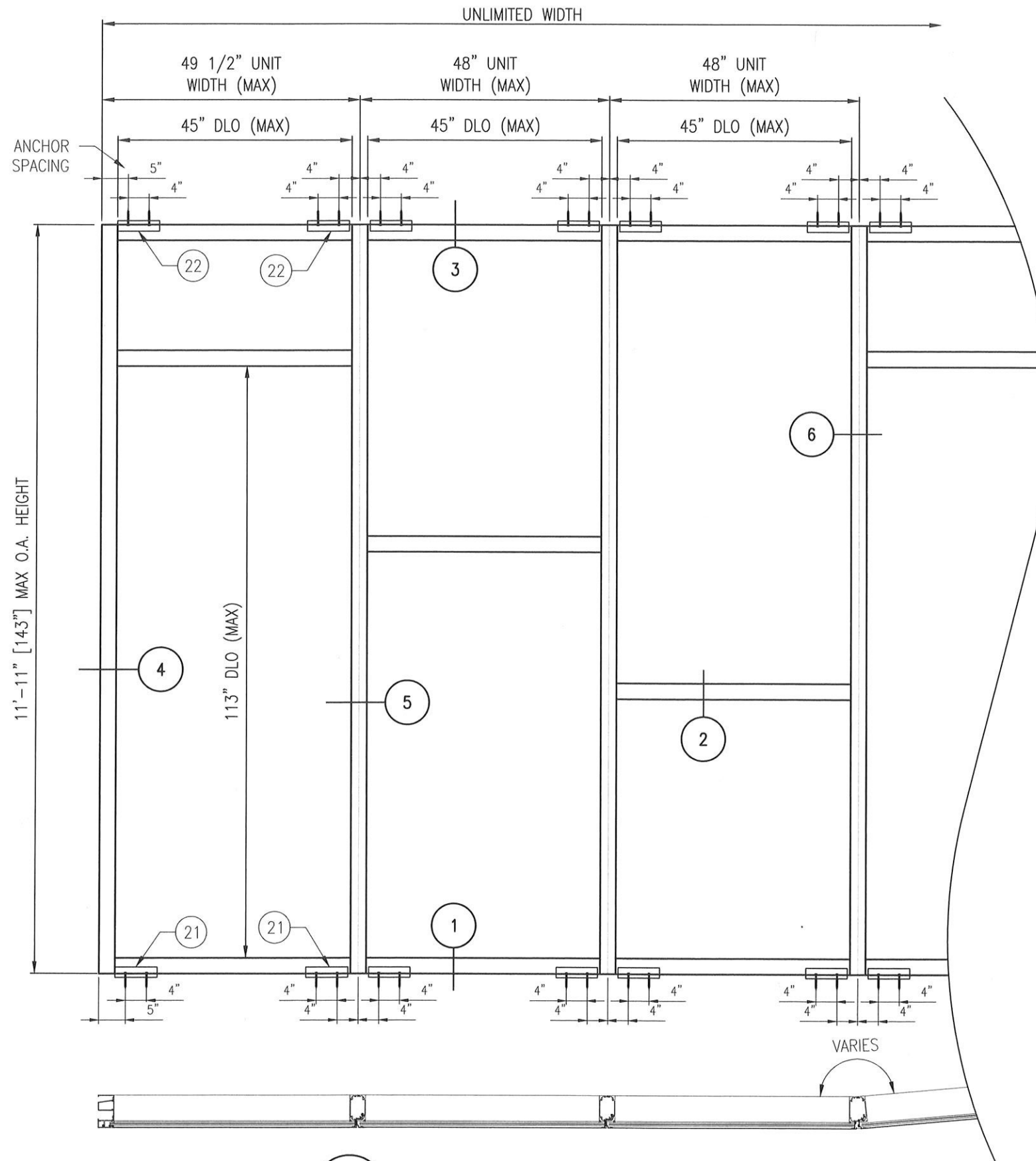
PRODUCT:
SERIES 650WST WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY: ELEVATION CAPTURED/REINFORCED

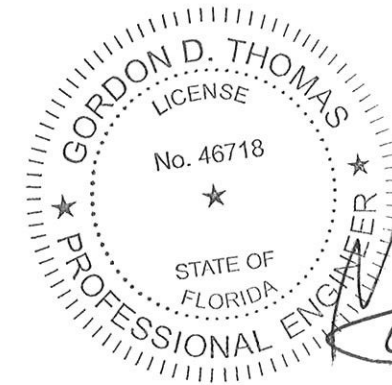
[illegible]

DRAWING NO.:
FL24544.4

SHEET: 2 OF 11



B CAPTURED/NON-REINFORCED
±55PSF
Scale: 1/2" = 1'-0"



Handwritten: 10/7/23
FL 46718

5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666	
PRODUCT: SERIES 650WST WINDOW WALL LARGE MISSILE IMPACT	PART OR ASSEMBLY: ELEVATION CAPTURED/NON-REINFORCED
NO. 1 DATE 9/15/23 DESCRIPTION UPDATE TO 8TH ED. (2023) FBC REVISIONS	BY ECV
DATE: 3/7/23	
SCALE: AS INDICATED	
DWG. BY: ECV	
CHK BY: -	
DRAWING NO.: FL24544.4	
SHEET: 3 OF 11	



5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666



PRODUCT:
SERIES 650WST WINDOW WALL
LARGE MISSILE IMPACT

FOR ASSEMBLY:
ELEVATION
BUTT-GLAZED/REINFORCED

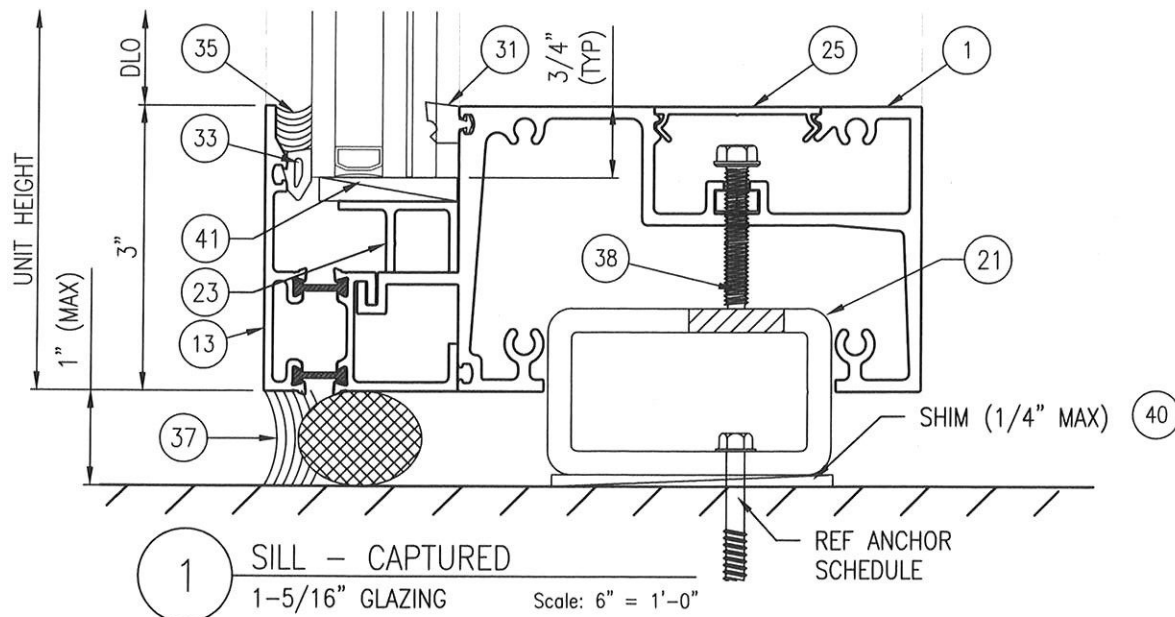
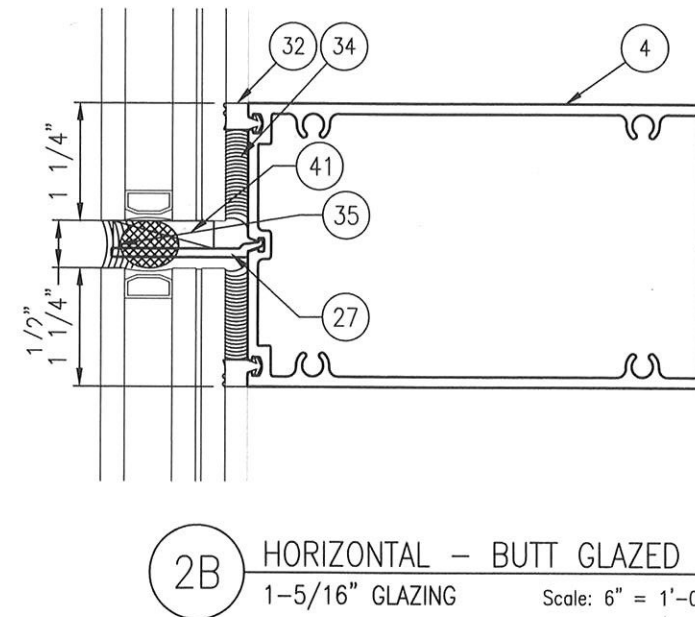
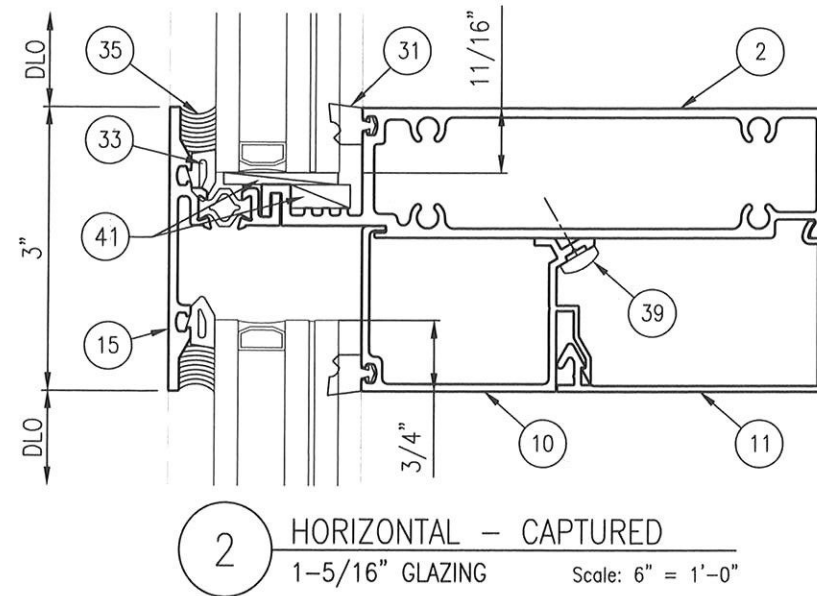
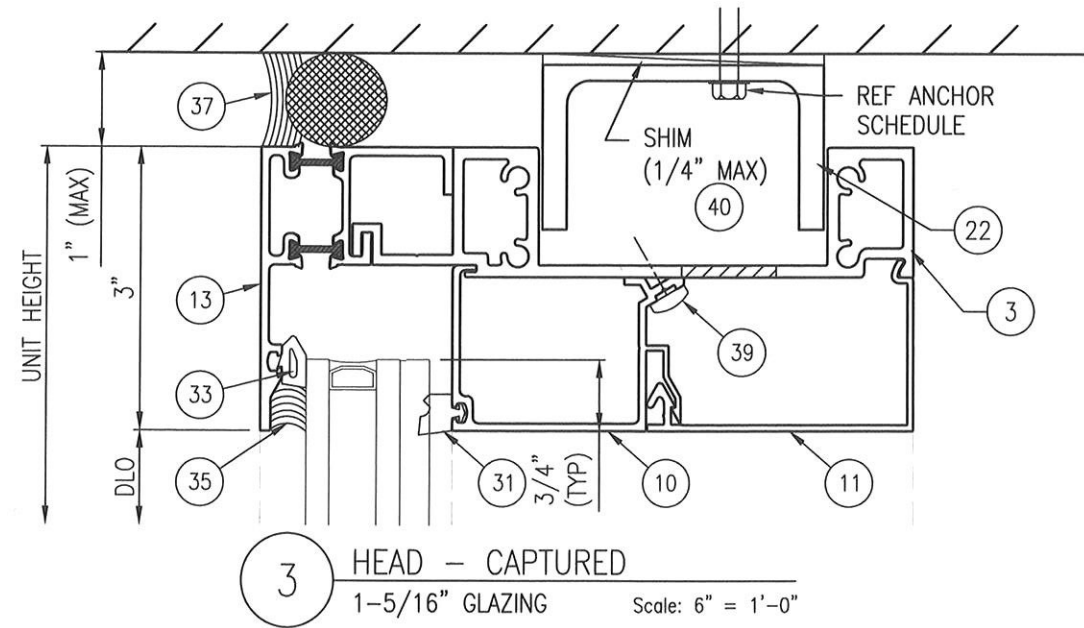
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DATE: 3/7/23
SCALE: AS INDICATED
DWG. BY: ECV
CHK BY: -
DRAWING NO.: FL24544.4
SHEET: 4 OF 11

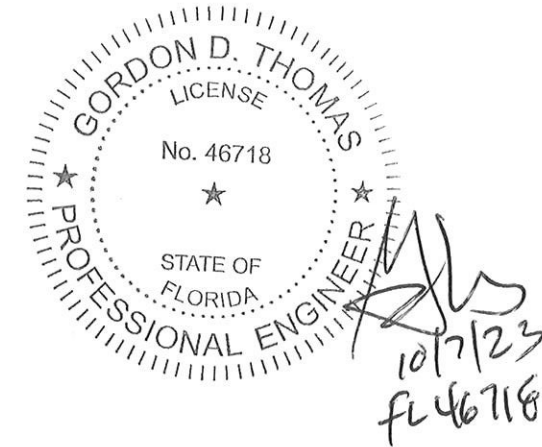


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[illegible]



42 ALL FRAME ASSEMBLY SCREWS TO BE #14 X 1-1/2" PH S/S SMS



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FAX: (813) 886-0666



PRODUCT:
SERIES 650WST WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:
HORIZONTAL DETAILS

NO	DATE	DESCRIPTION	BY
1	9/15/23	UPDATE TO 8TH ED. (2023) FBC ECV	

DATE: 3/7/23

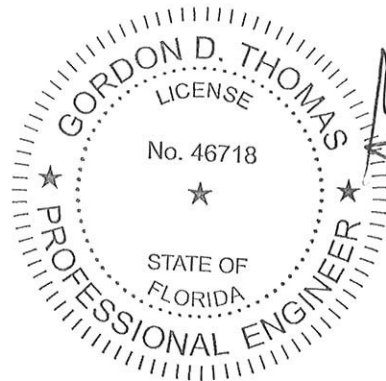
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DWG. BY: ECV

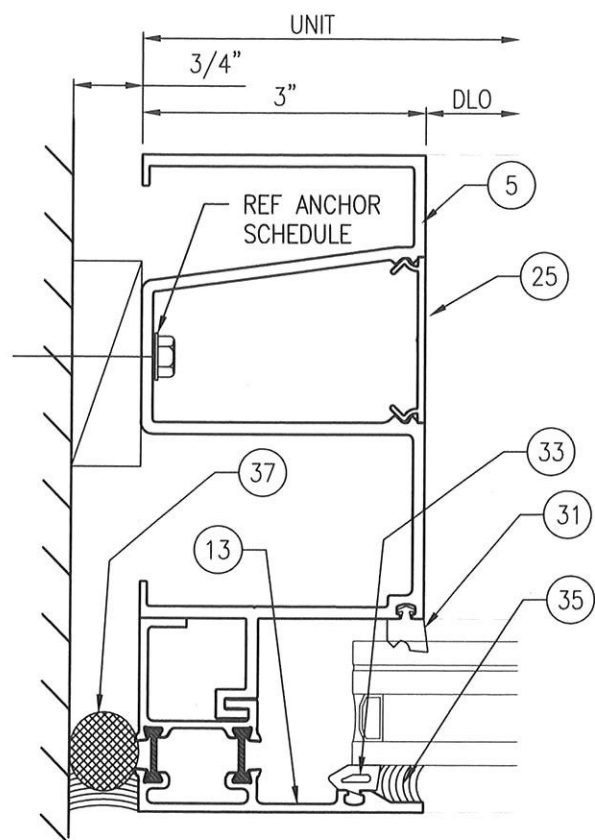
CHK BY: -

DRAWING NO.:
FL24544.4

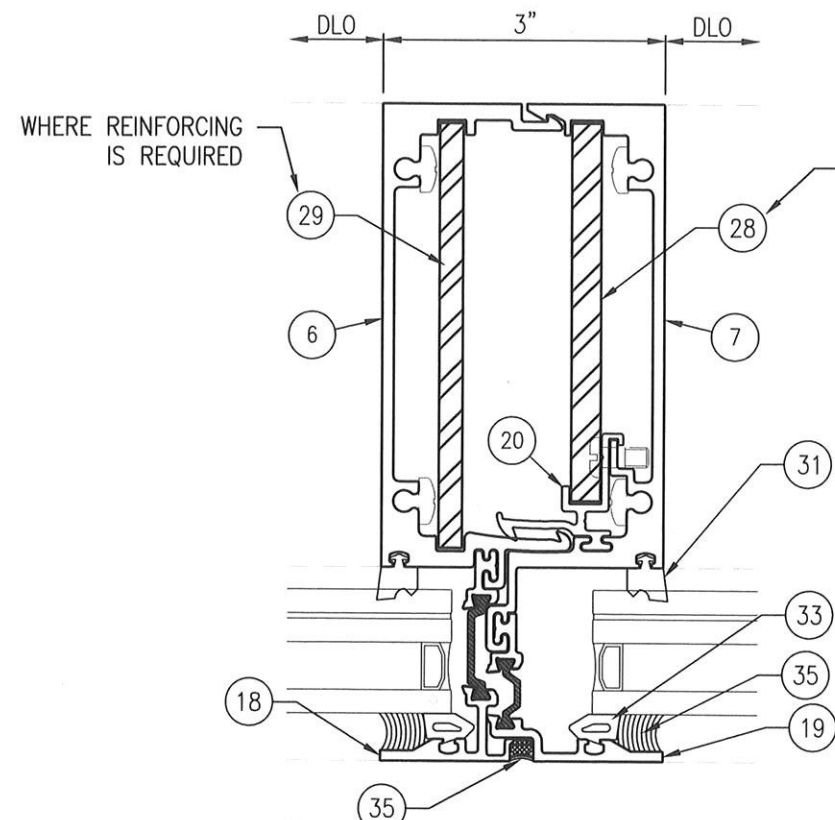
SHEET: 6 OF 11



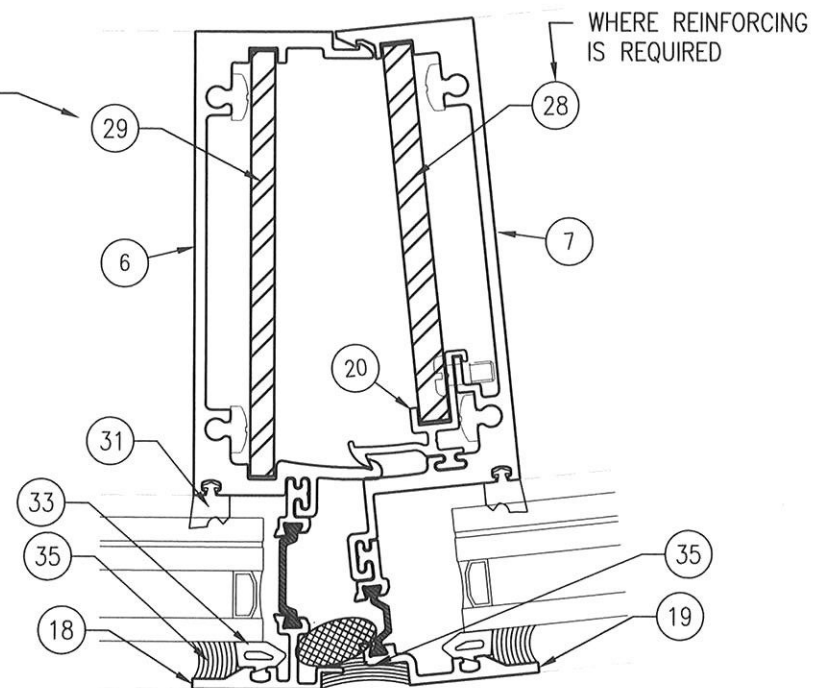
10/12/23
FL 46718



4 JAMB - CAPTURED
1-5/16" GLAZING Scale: 6" = 1'-0"



5 MULLION - CAPTURED
1-5/16" GLAZING Scale: 6" = 1'-0"



6 MULLION - CAPTURED (SPLAYED)
1-5/16" GLAZING Scale: 6" = 1'-0"

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PRODUCT:
SERIES 650WST WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:
VERTICAL DETAILS

NO	DATE	DESCRIPTION	BY
1	9/15/23	UPDATE TO 8TH ED. (2023) FBC ECV	ECV

DATE: 3/7/23

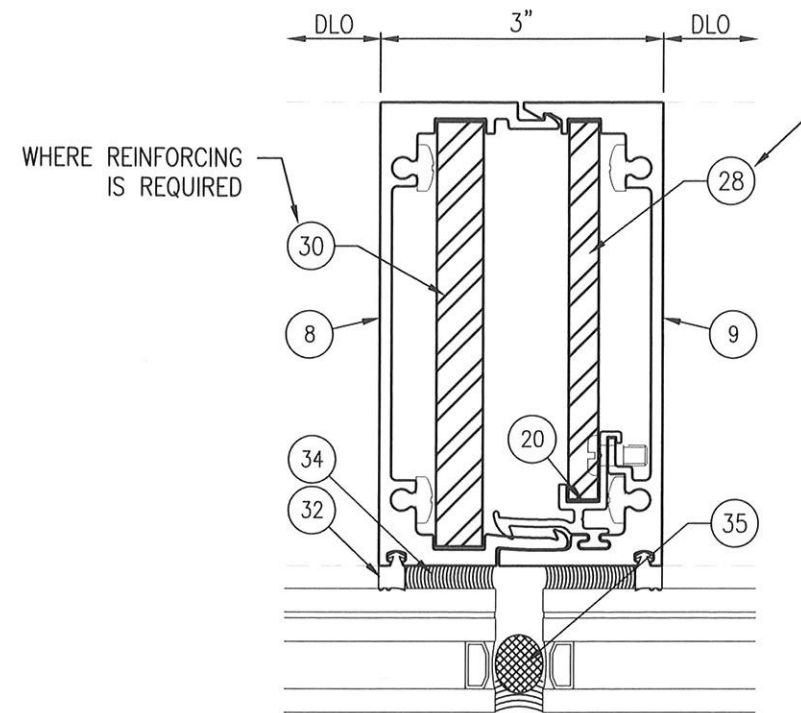
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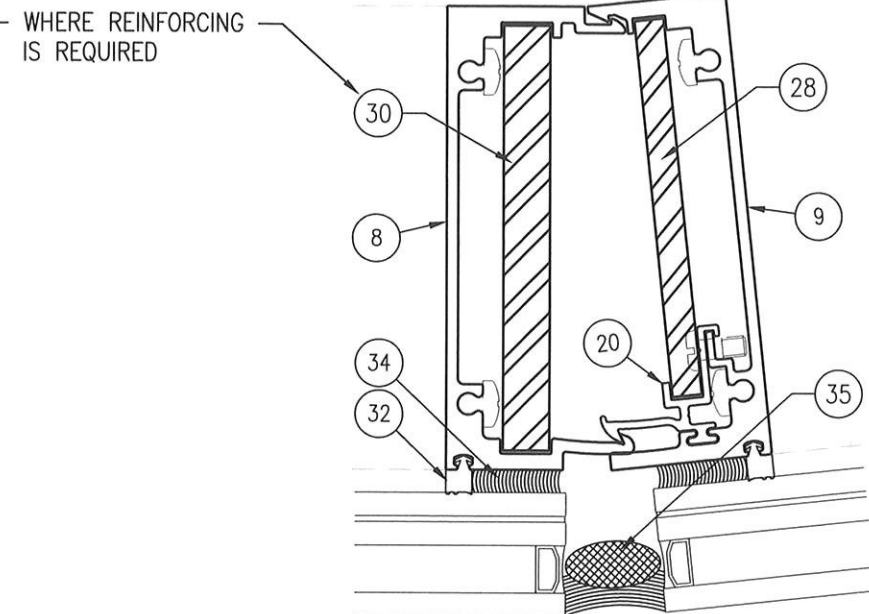
CHK BY: -

DRAWING NO.:
FL24544.4

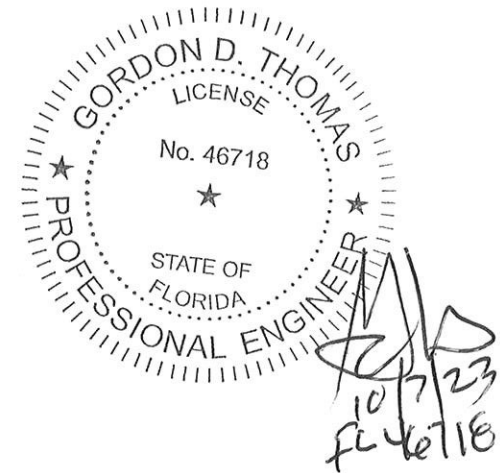
SHEET: 7 OF 11



7 MULLION - BUTT GLAZED
1-5/16" GLAZING Scale: 6" = 1'-0"

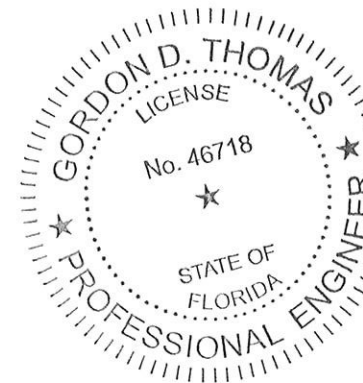
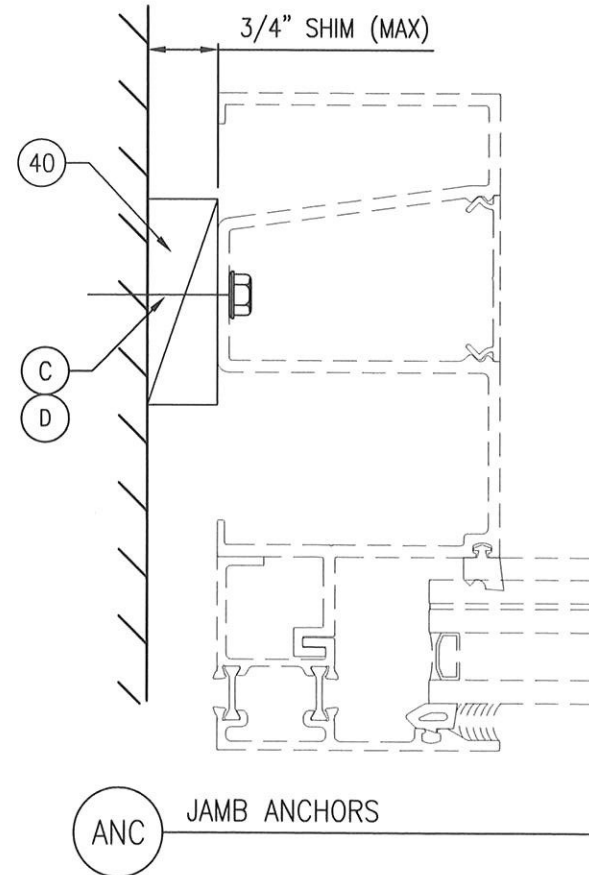
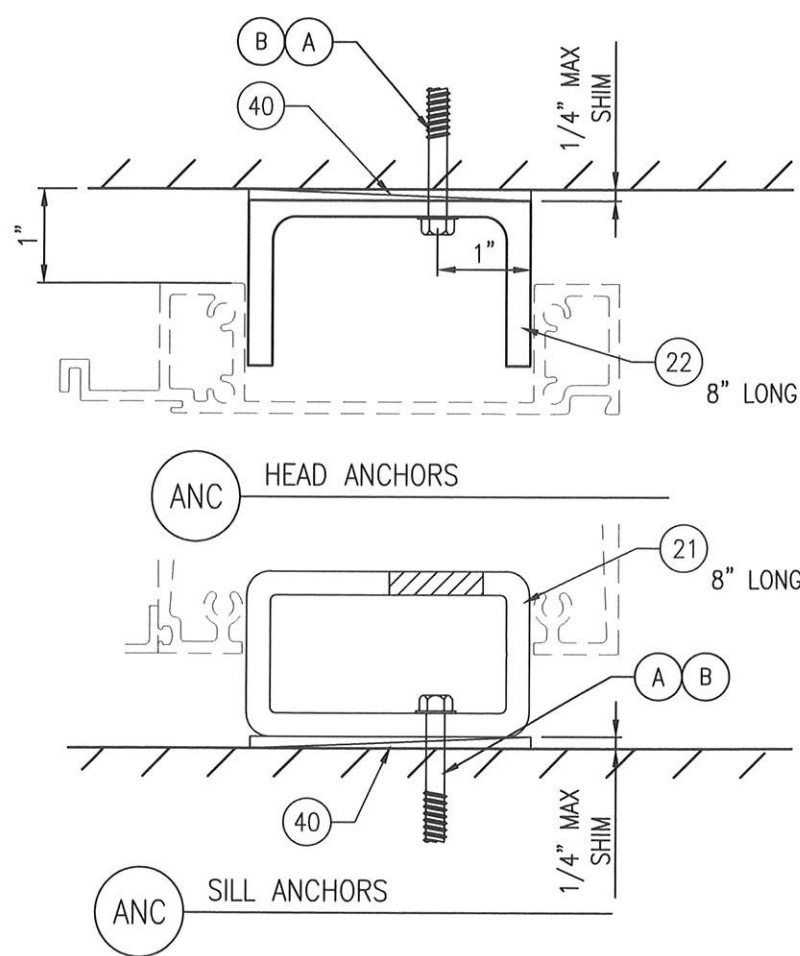


8 MULLION - BUTT GLAZED (SPLAYED)
1-5/16" GLAZING Scale: 6" = 1'-0"



5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666 SUN METALS	
PRODUCT: SERIES 650WST WINDOW WALL LARGE MISSILE IMPACT	
PART OR ASSEMBLY: VERTICAL DETAILS	
DATE: 3/7/23	
SCALE: HALF	
DWG. BY: ECV	
CHK BY: -	
DRAWING NO.: FL24544.4	
SHEET: 8 OF 11	

NO	DATE	DESCRIPTION	BY
1	9/15/23	UPDATE TO 8TH ED. (2023) FBC	ECV



10/17/23
FL 46718

5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666



PRODUCT:
SERIES 650WST WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:
ANCHORS AND GLAZING

NO	DATE	DESCRIPTION	BY
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DATE: 3/7/23

SCALE: NA

DWG. BY: ECV

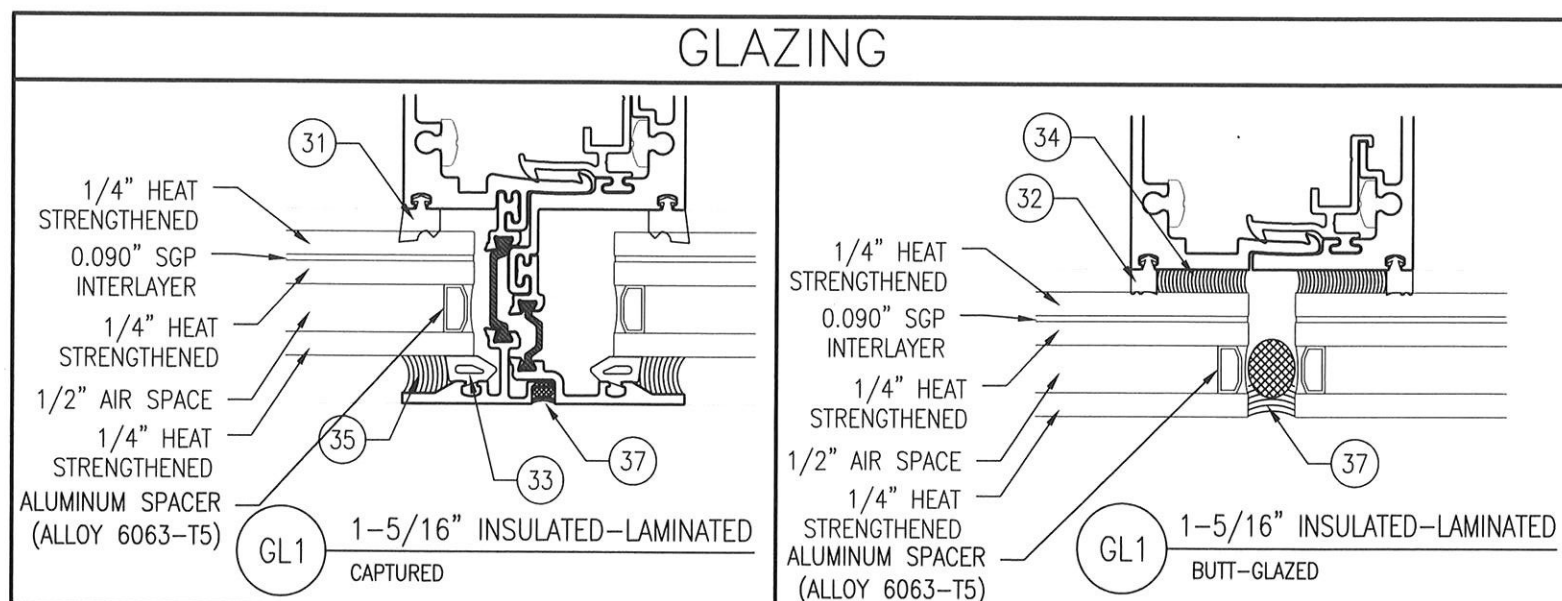
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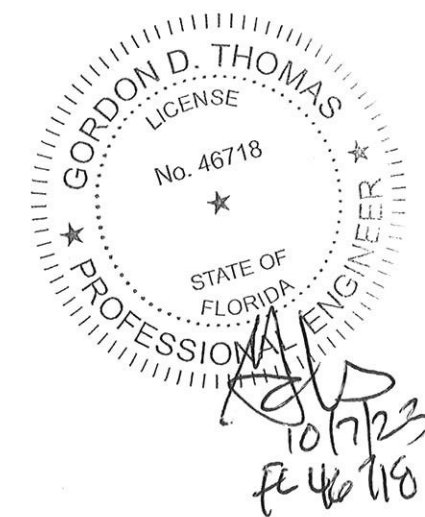
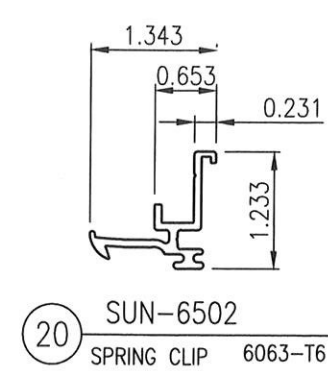
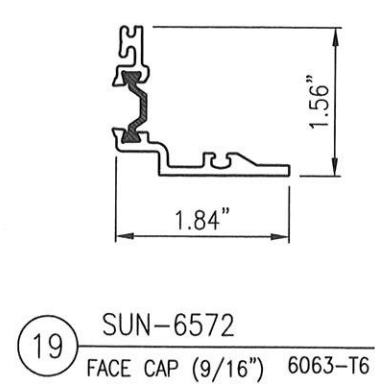
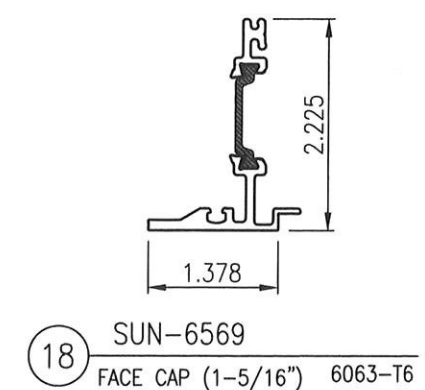
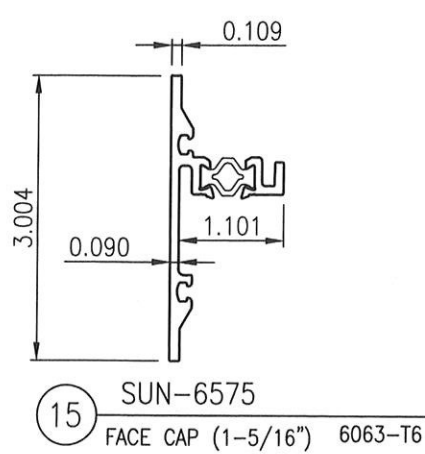
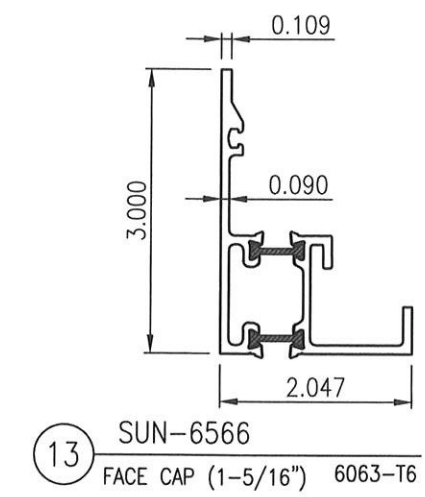
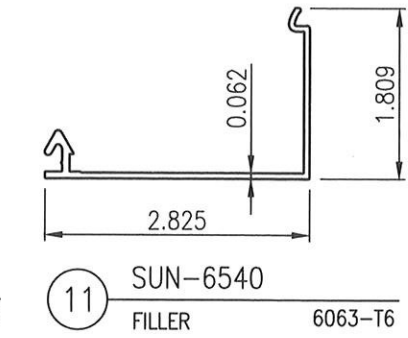
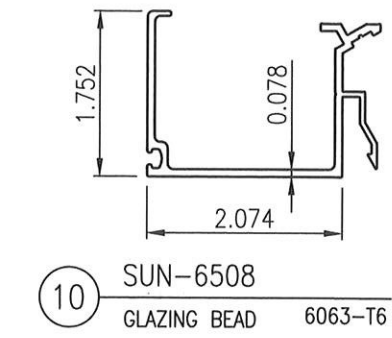
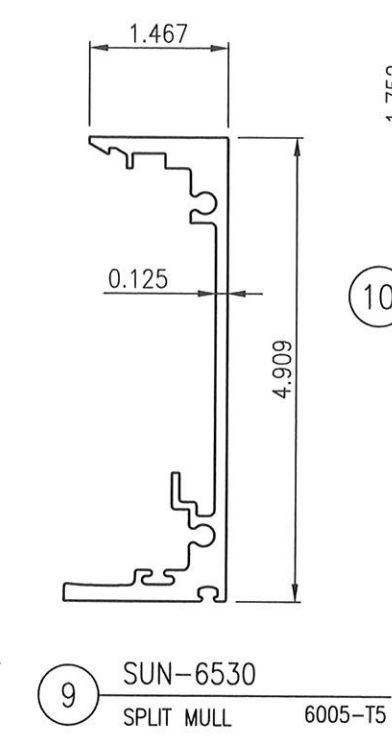
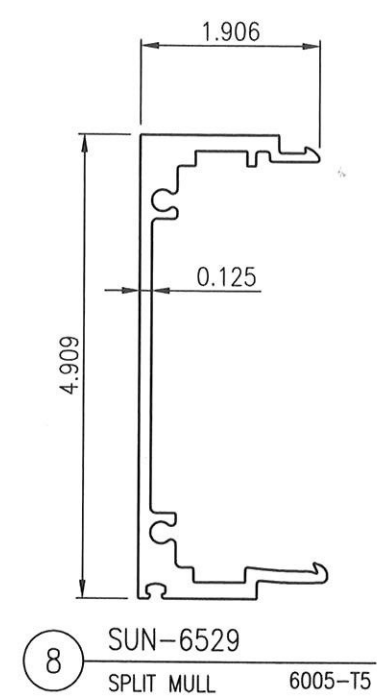
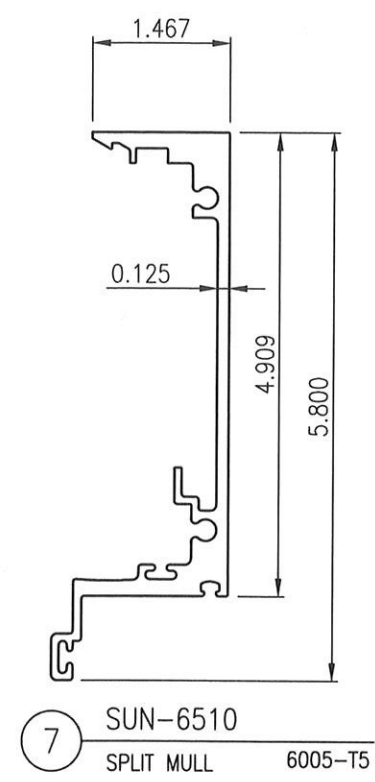
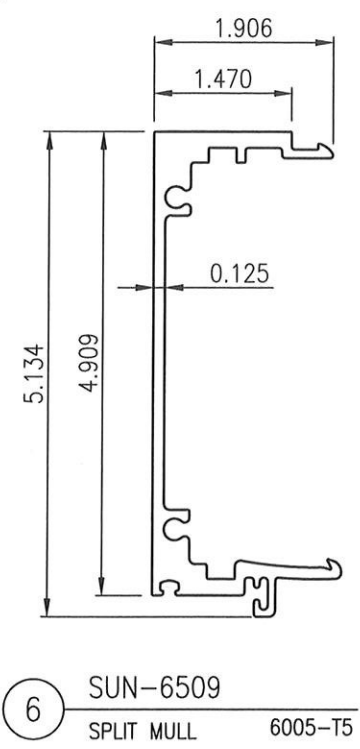
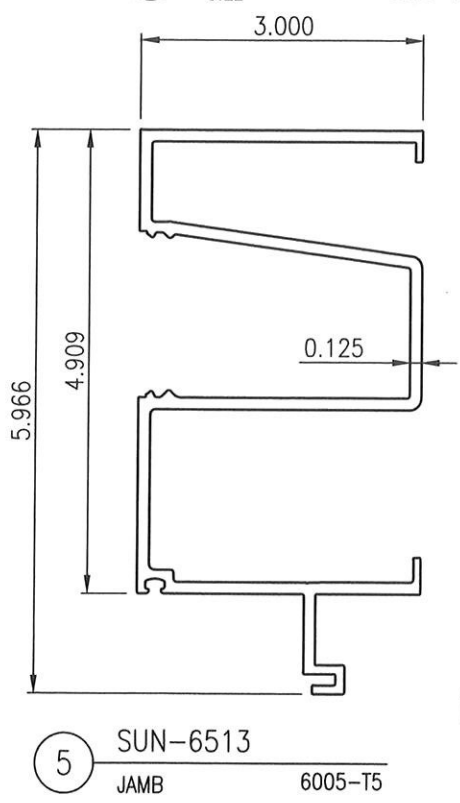
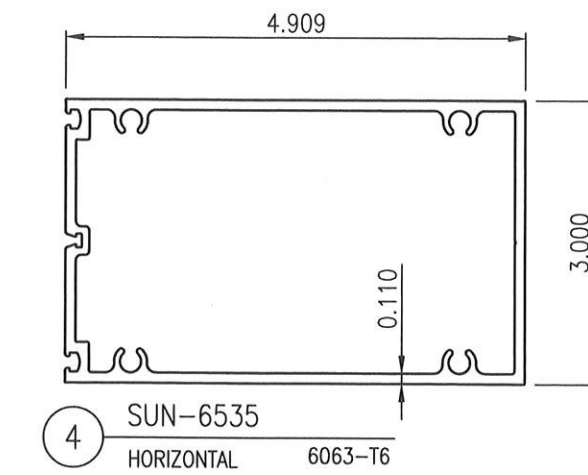
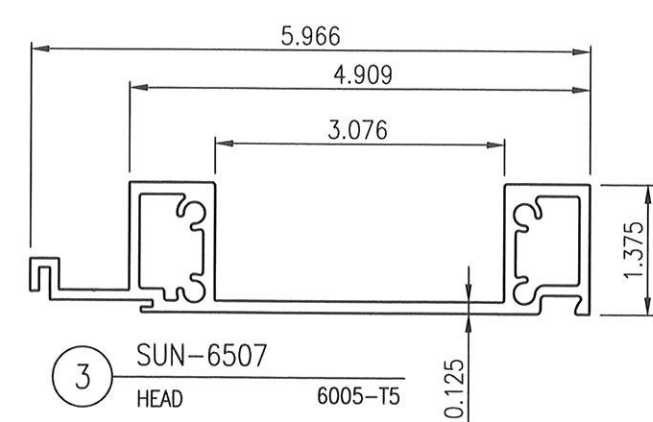
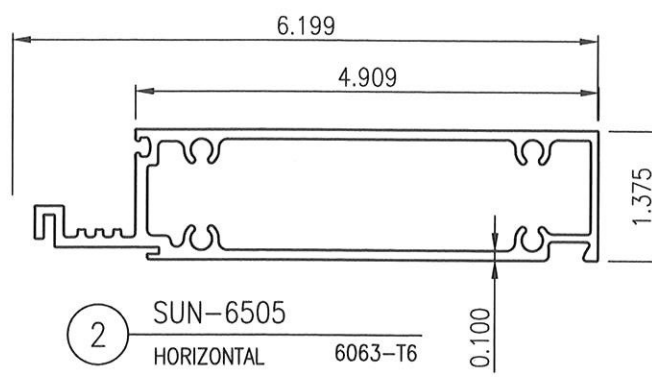
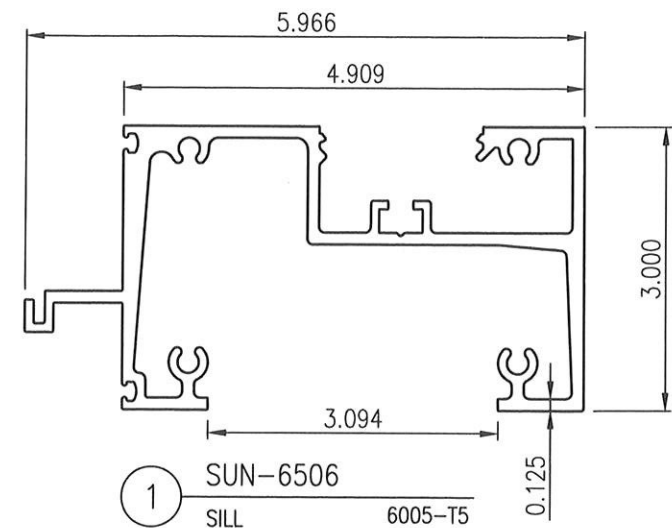
DRAWING NO.:
FL24544.4

SHEET: 9 OF 11

ANCHOR SCHEDULE (100 PSF/REINFORCED)		
PRIMARY HEAD AND SILL ANCHORS		
SUBSTRATE	ANCHOR TYPE	DESCRIPTION
CONCRETE	A	3/8" Powers Wedge Bolt with 2-1/8" min embedment, 4" minimum edge distance. Minimum clip length 8". Concrete is 4,000 PSI minimum conforming to ACI 301.
STEEL	B	5/16" diameter self drilling screws or bolts. Steel with 0.125" minimum wall thickness conforming to ASTM A500 Grade B, Fy=46,000 PSI & Fu=58,000 PSI or ASTM A653, Fy=33,000 PSI, Fu= 45,000 PSI. Minimum embedment of 3 threads through steel substrate, with 1" min. edge distance.
JAMB ANCHORS		
CONCRETE	C	3/8" Powers Wedge Bolt with 2-1/8" min embedment. Minimum clip length 8". Concrete is 4,000 PSI minimum conforming to ACI 301.
STEEL	D	3/8" diameter self drilling screws or bolts. Steel with 0.125" minimum wall thickness conforming to ASTM A500 Grade B, Fy=46,000 PSI & Fu=58,000 PSI or ASTM A653, Fy=33,000 PSI, Fu= 45,000 PSI. Minimum embedment of 3 threads through steel substrate, with 1" min. edge distance.

ANCHOR SCHEDULE (55 PSF/NON-REINFORCED)		
PRIMARY HEAD AND SILL ANCHORS		
SUBSTRATE	ANCHOR TYPE	DESCRIPTION
CONCRETE	A	5/16" HWH ITW Tapcon® XL concrete anchor with 1-3/4" min. embedment, 2-1/2" minimum edge distance. Minimum clip length 8". Concrete is 3,000 PSI minimum conforming to ACI 301.
STEEL	B	1/4" diameter self drilling screws. Steel with 0.125" minimum wall thickness conforming to ASTM A500 Grade B, Fy=46,000 PSI & Fu=58,000 PSI or ASTM A653, Fy=33,000 PSI, Fu= 45,000 PSI. Minimum embedment of 3 threads through steel substrate, with 1" min. edge distance.





5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

PRODUCT:
SERIES 650WST WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:		COMPONENTS	
NO	DATE	DESCRIPTION	BY
1	9/15/23	UPDATE TO 8TH ED. (2023) FBC ECV	ECV

DATE: 3/7/23

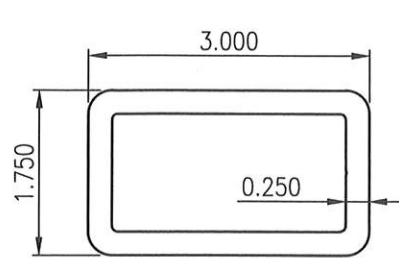
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DWG. BY: ECV

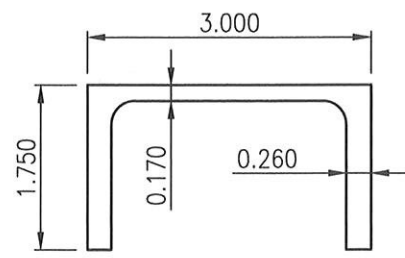
CHK BY: -

DRAWING NO.: FL24544.4

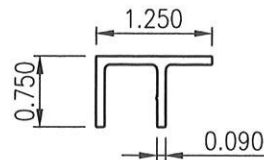
SHEET: **10** OF **11**



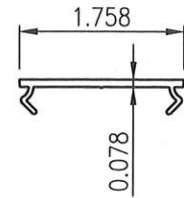
21 SUN-6501
STARTER TUBE 6005-T5



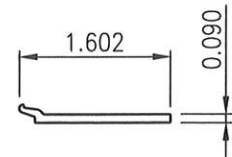
22 C3 X 1.75 X .170/.260
ANCHOR CHANNEL 6005-T5



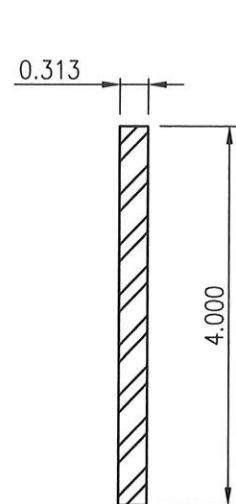
23 SUN-422
SETTING CHAIR 6063-T6



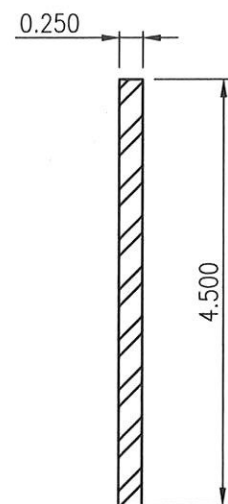
25 SUN-402
POCKET FILLER 6063-T6



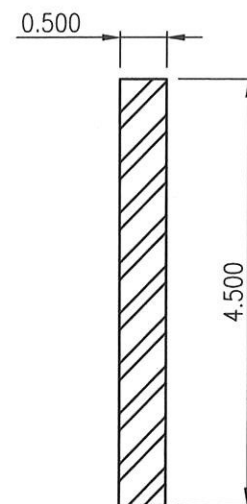
27 SUN-6133
SETTING CHAIR 6063-T6



28 4" X 5/16" BAR
STEEL REINFORCING A36

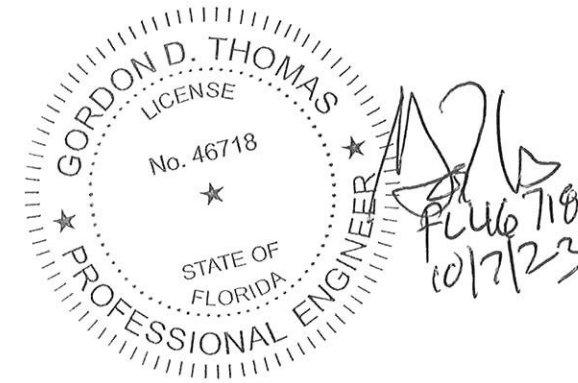


29 4-1/2" X 1/4" BAR
STEEL REINFORCING A36



30 4-1/2" X 1/2" BAR
STEEL REINFORCING A36

- 31 SPONGE
TR-6142E
- 32 CAULK STOP
TR-10681S
- 33 WEDGE
G-1863



BILL OF MATERIALS					
ITEM #	PART #	DESCRIPTION	MATERIAL	MANUFACTURER	NOTES
1	SUN-6506	SILL	6005-T5	SUN METALS	
2	SUN-6505	HORIZONTAL	6063-T6	SUN METALS	
3	SUN-6507	HEAD	6005-T5	SUN METALS	
4	SUN-6535	HORIZONTAL (BUTT-GLAZED)	6063-T6	SUN METALS	
5	SUN-6513	JAMB	6005-T5	SUN METALS	
6	SUN-6509	MALE SPLIT MULLION (CAPTURED)	6005-T5	SUN METALS	
7	SUN-6510	FEMALE SPLIT MULLION (CAPTURED)	6005-T5	SUN METALS	
8	SUN-6529	MALE SPLIT MULLION (BUTT-GLAZED)	6005-T5	SUN METALS	
9	SUN-6530	FEMALE SPLIT MULLION (BUTT-GLAZED)	6005-T5	SUN METALS	
10	SUN-6508	INTERIOR GLAZING BEAD	6063-T6	SUN METALS	
11	SUN-6540	HORIZONTAL FILLER TRIM	6063-T6	SUN METALS	
13	SUN-6566	FACE CAP (1 5/16" GLAZING)	6063-T6	SUN METALS	
15	SUN-6575	FACE CAP (1 5/16" GLAZING)	6063-T6	SUN METALS	
18	SUN-6569	FACE CAP (1 5/16" GLAZING)	6063-T6	SUN METALS	
19	SUN-6572	FACE CAP (1 5/16" GLAZING)	6063-T6	SUN METALS	
20	SUN-6502	SPRING CLIP	6063-T6	SUN METALS	
21	SUN-6501	STARTER TUBE	6005-T5	SUN METALS	
22		3 X 1-3/4 X .170/.260 ALUMINUM CHANNEL	6005-T5	VARIES	
23	SUN-422	SETTING CHAIR	6063-T6	SUN METALS	
25	SUN-402	POCKET FILLER	6063-T6	SUN METALS	
27	SUN-6133	SETTING CHAIR (1-5/16" BUTT-GLAZED)	6063-T6	SUN METALS	
28		4"x5/16" STEEL BAR	A36	VARIES	
29		4-1/2"x1/4" STEEL BAR	A36	VARIES	
30		4-1/2"x1/2" STEEL BAR	A36	VARIES	
31	TR-6142E	SPONGE	EPDM	TREMCO	
32	TR-10681S	CAULK STOP	SILICONE	TREMCO	
33	G-1863	WEDGE	EPDM	GRP	
34	DOW 983	STRUCTURAL SILICONE	SILICONE	DOW CORNING	
35	DOW 795	PERIMETER CAP BEAD WEATHERSEAL	SILICONE	DOW CORNING	
37		PERIMETER WEATHERSEAL AND BACKER ROD	SILICONE	DOW CORNING	DOW 790, 791, 795 OR APPROVED EQ.
38		1/4" DIA. JACKING/LEVELING SCREW	18-8 SS		
39		#12 x 3/4" PH SMS	18-8 SS		
40		SHIM	POLYSTYRENE	VARIES	FULL BEARING HIGH IMPACT POLYSTYRENE
41		SETTING BLOCK (4" LONG)	SILICONE	VARIES	
42		#14 x 1-1/2" PH S/S FRAME ASSY SCREWS	18-8 SS		

5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666	
PRODUCT: SUN 650WST LARGE MISSILE IMPACT	PART OR ASSEMBLY: COMPONENTS AND BILL OF MATERIALS
DATE: 3/7/23	SCALE: HALF
DWG. BY: ECV	CHK BY: -
DRAWING NO.: FL24544.4	SHEET: 11 OF 11