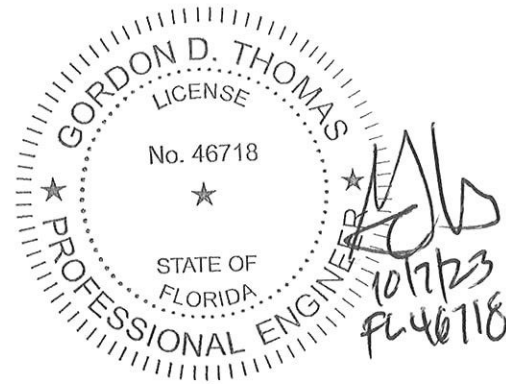
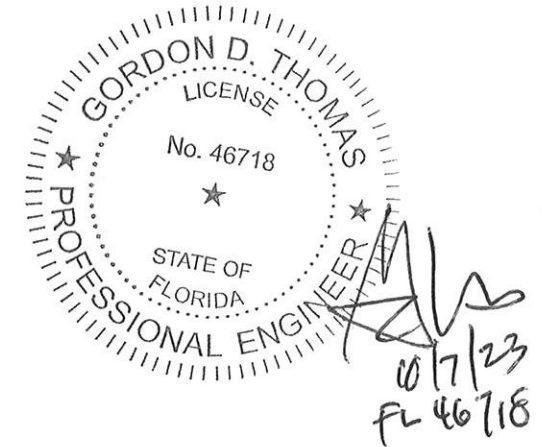


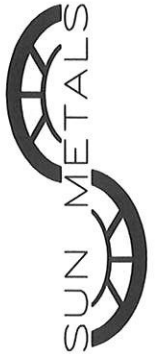
"LARGE MISSILE IMPACT"



			5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666		
<u>PRODUCT:</u>			SERIES 650WS WINDOW WALL LARGE MISSILE IMPACT		
<u>PART OR ASSEMBLY:</u>			GENERAL NOTES ELEVATION AND DESIGN PRESSURES		
No.	Date	Description	By	JCB	ECV
2	9/15/23	UPDATE TO 8TH ED. (2023)	FBC		
1	9/21/20	UPDATE TO 7TH ED. (2020)	FBC		
REVISIONS					
DATE: 11/30/17					
SCALE: NA					
DWG. BY: CO					
CHK BY: ECV					
DRAWING NO.: FL24544.1					
SHEET: <u> 1 </u> OF <u> 11 </u>					



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



PRODUCT:
SERIES 650WS WINDOW WALL
LARGE MISSILE IMPACT

FOR ASSEMBLY: _____
ELEVATION
CAPTURED/REINFORCED

NO		DATE	DESCRIPTION	BY
REVISIONS				
2	9/15/23	UPDATE TO 8TH ED. (2023)	FBC	ECV
1	9/21/20	UPDATE TO 7TH ED. (2020)	FBC	JCB

DATE: 11/30/17

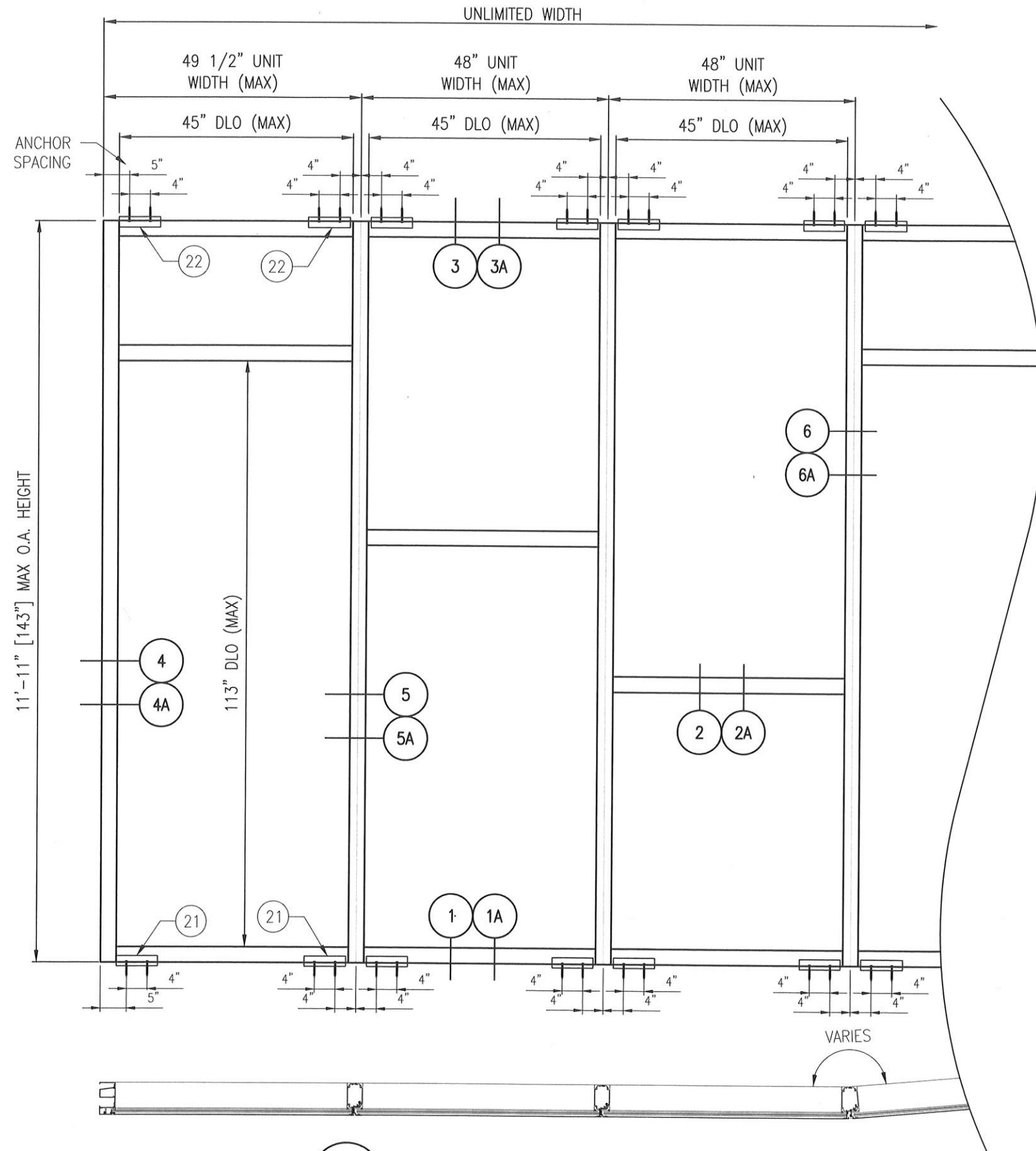
SCALE: AS INDICATED

DWG. BY: CO

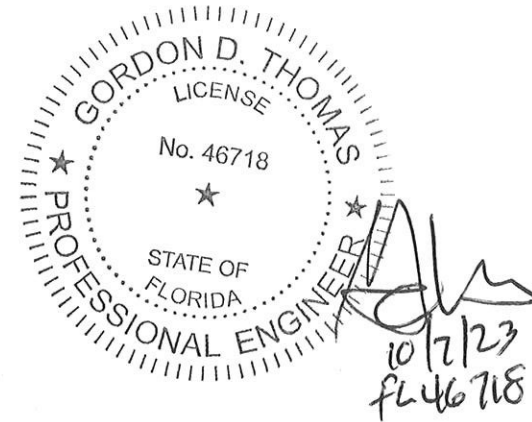
CHK BY: ECV

DRAWING NO.:
FL24544.1

SHEET: 2 OF 11



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



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

SUN METALS

PRODUCT: SERIES 650WS WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY: ELEVATION
CAPTURED/NON-REINFORCED

NO	DATE	DESCRIPTION	BY
2	9/15/23	UPDATE TO 8TH ED. (2023) FBC	ECV
1	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB

DATE: 11/30/17

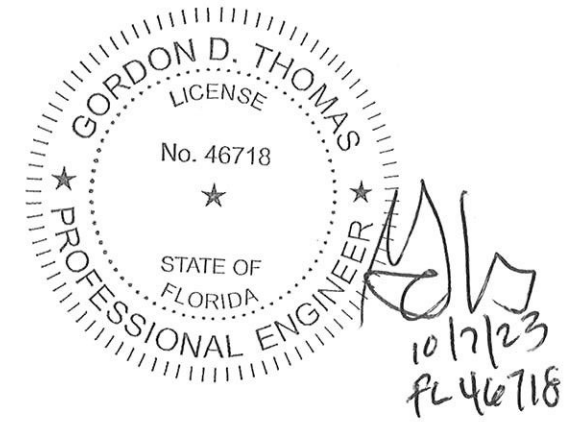
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DWG. BY: CO

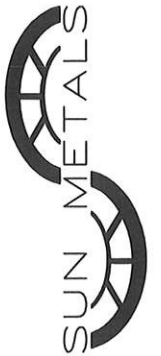
CHK BY: ECV

DRAWING NO.: FL24544.1

SHEET: **3** OF **11**



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



PRODUCT:
SERIES 650WS WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:
ELEVATION
BUTT-GLAZED/REINFORCED

[illegible]

DATE: 11/30/17

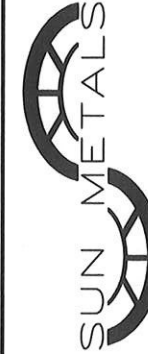
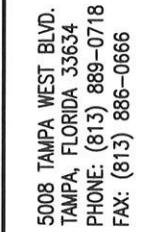
SCALE: AS INDICATED

DWG. BY: CO

CHK BY: ECV

DRAWING NO.:
FL24544.1

SHEET: 4 OF 11



PRODUCT:

SERIES 650WS WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:

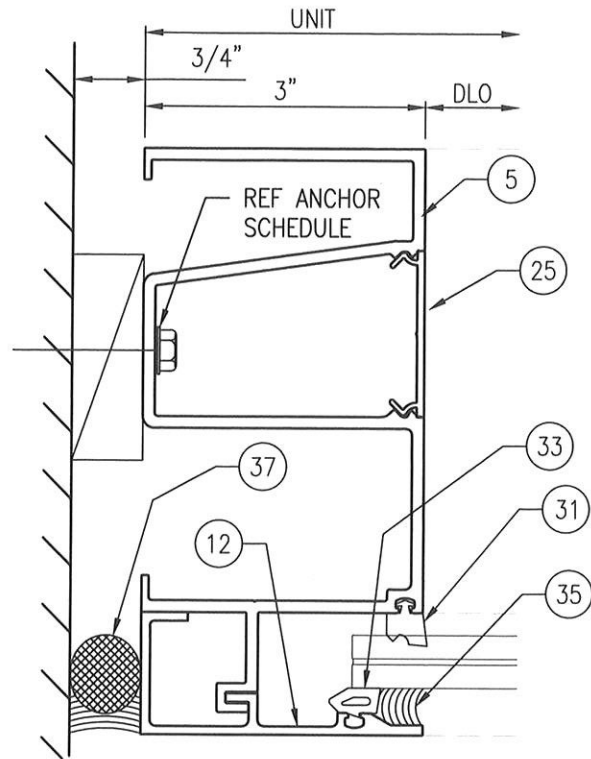
BUTT-GLAZED/NON-REINFORCED ELEVATION

REVISIONS				
NO	DATE	DESCRIPTION	BY	
2	9/15/23	UPDATE TO 8TH ED. (2023)	FBC	ECV
1	9/21/20	UPDATE TO 7TH ED. (2020)	FBC	JCB

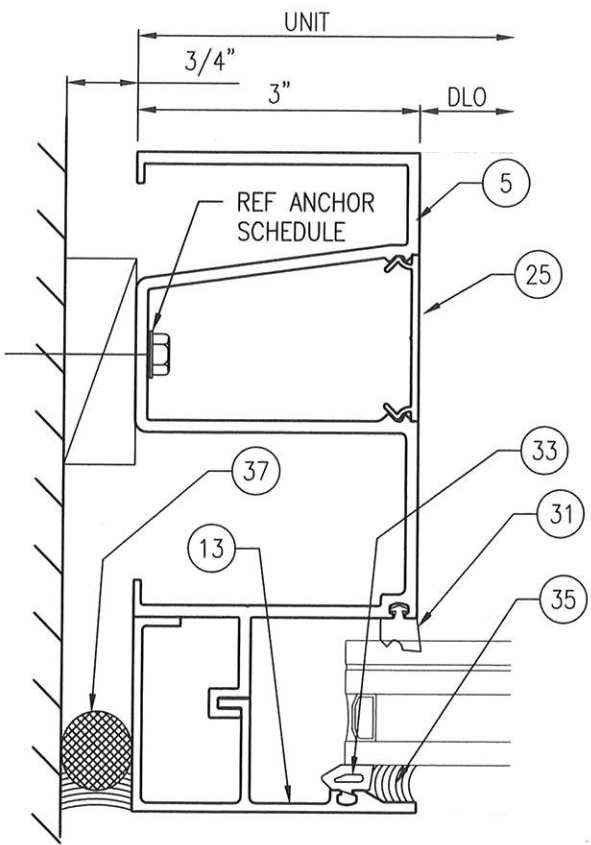
DRAWING NO.:
FL24544.1

SHEET: 5 OF 11

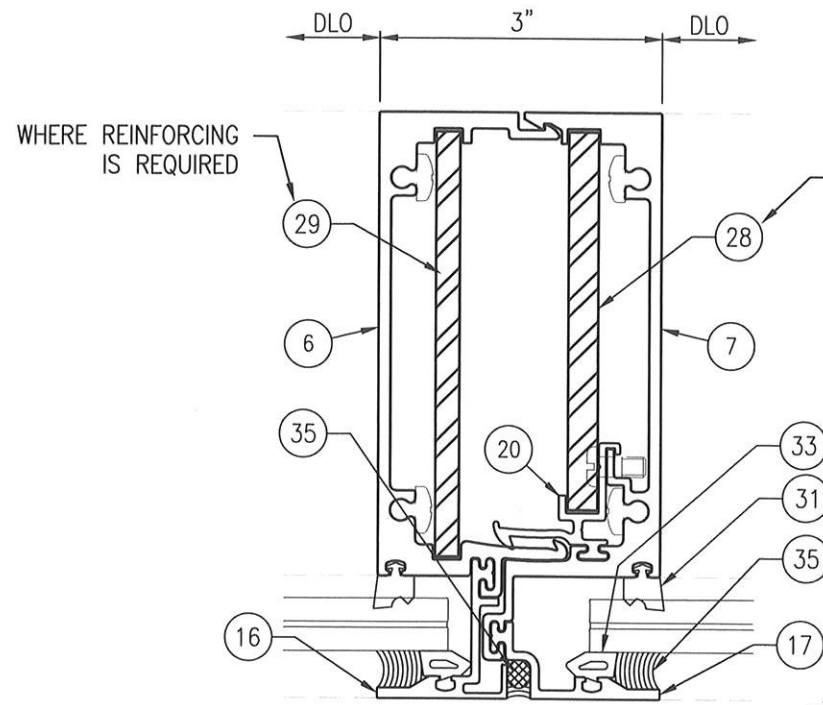
						5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666					
PRODUCT:						SERIES 650WS WINDOW WALL LARGE MISSILE IMPACT					
PART OR ASSEMBLY:						HORIZONTAL DETAILS					
						2	9/15/23	UPDATE TO 8TH ED.	(2023)	FBC	ECV
						1	9/21/20	UPDATE TO 7TH ED.	(2020)	FBC	JCB
						NO	DATE	DESCRIPTION		BY	
						REVISIONS					
DATE: 11/30/17											
SCALE: HALF											
DWG. BY: CO											
CHK BY: ECV											
DRAWING NO.: FL24544.1											
SHEET: 6 OF 11											



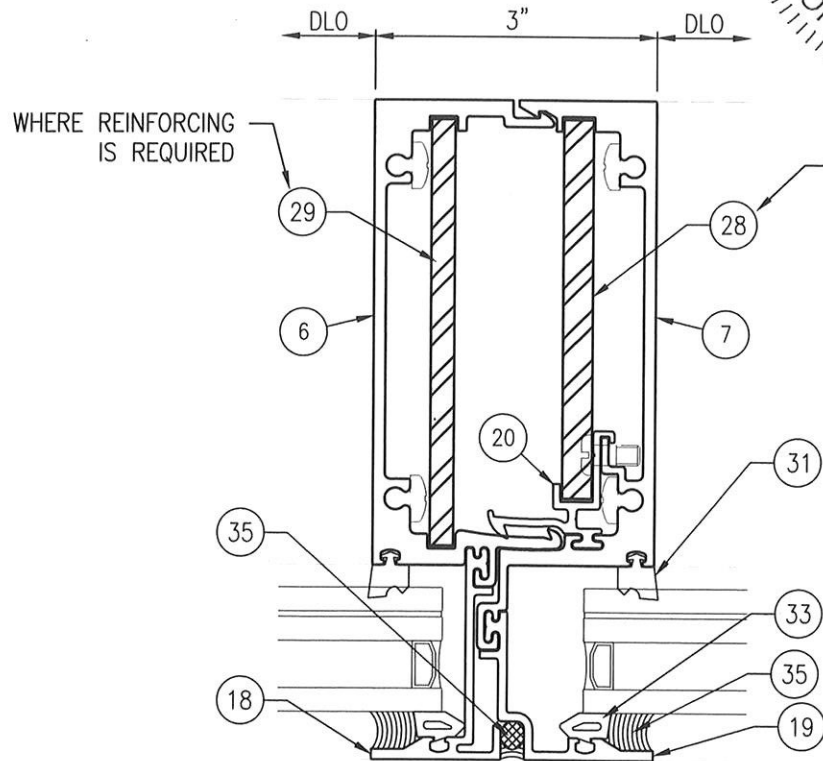
4 JAMB - CAPTURED
9/16" GLAZING Scale: 6" = 1'-0"



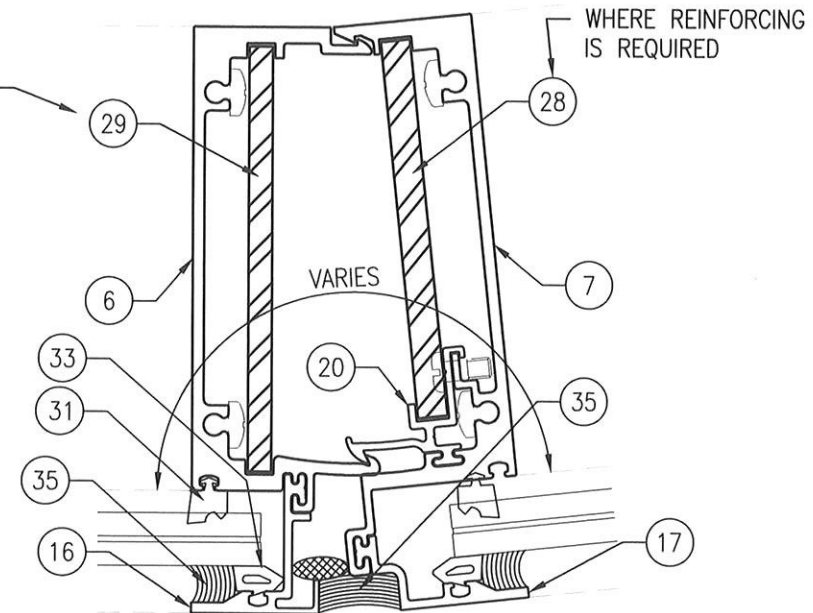
4A JAMB - CAPTURED
1-5/16" GLAZING Scale: 6" = 1'-0"



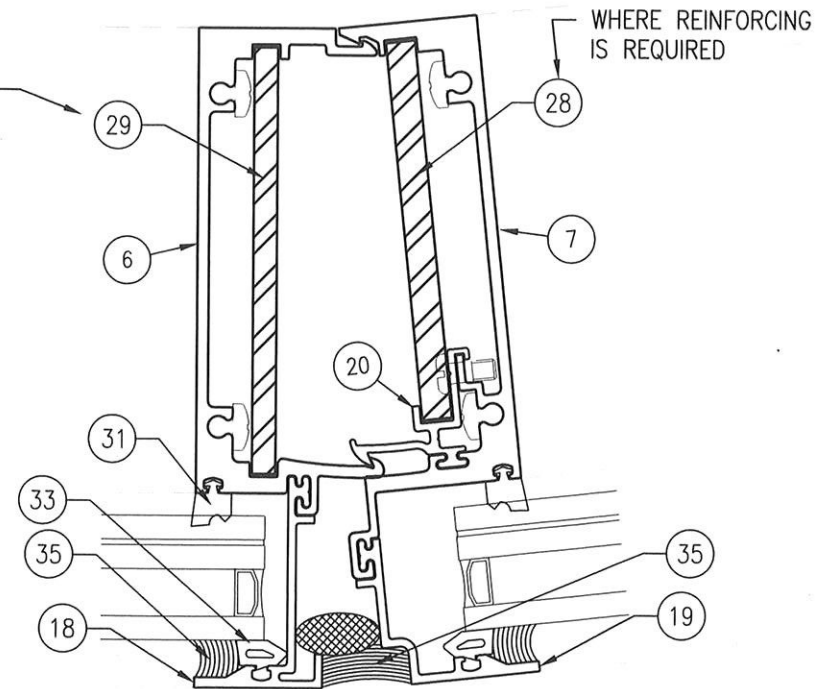
5 MULLION - CAPTURED
9/16" GLAZING Scale: 6" = 1'-0"



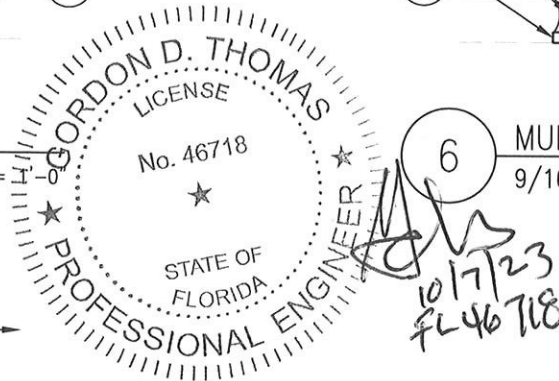
5A MULLION - CAPTURED
1-5/16" GLAZING Scale: 6" = 1'-0"



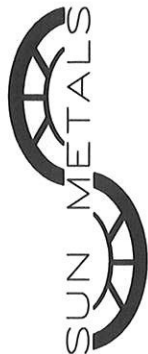
6 MULLION - CAPTURED (SPLAYED)
9/16" GLAZING Scale: 6" = 1'-0"



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



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FAX: (813) 886-0666



PRODUCT:
SERIES 650WS WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:
VERTICAL DETAILS

NO	DATE	DESCRIPTION	BY
1	9/21/20	UPDATE TO 7TH ED. (2020)	JCB
2	9/15/23	UPDATE TO 8TH ED. (2023)	ECV

DATE: 11/30/17

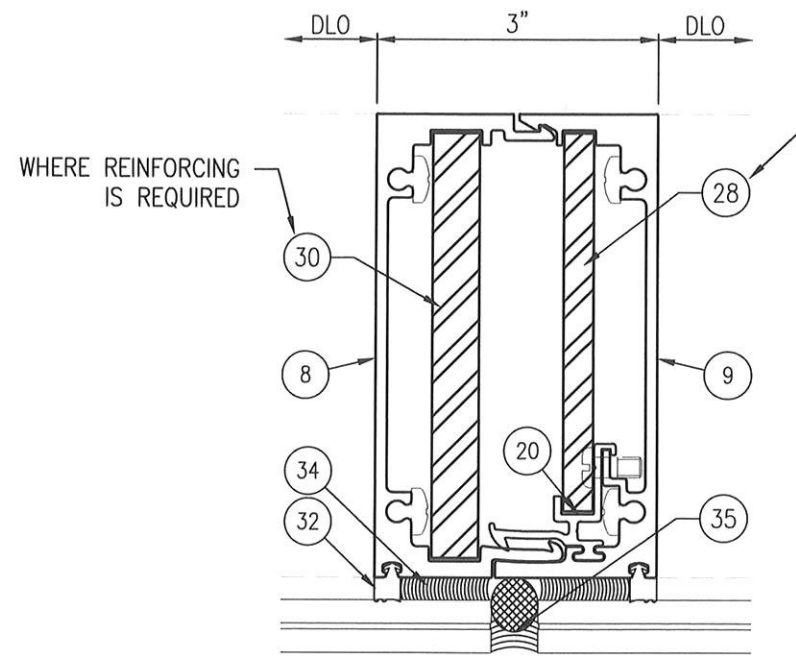
SCALE: HALF

DWG. BY: CO

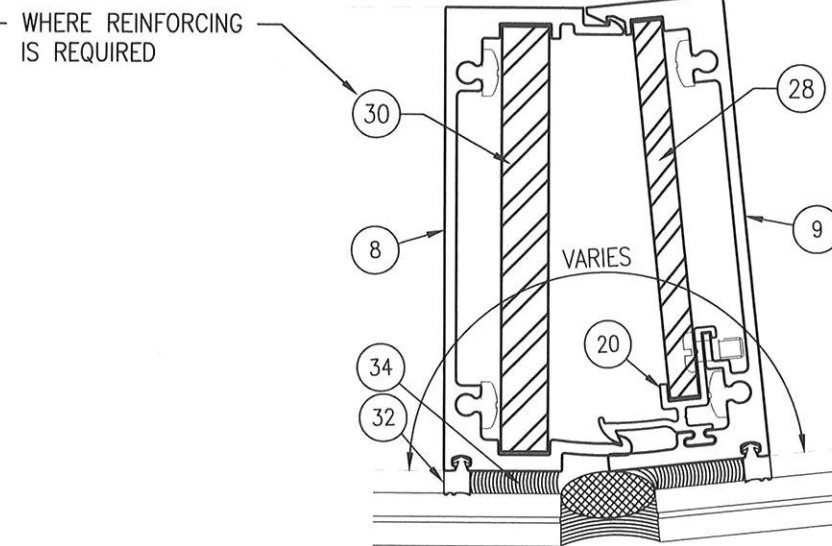
CHK BY: ECV

DRAWING NO.:
FL24544.1

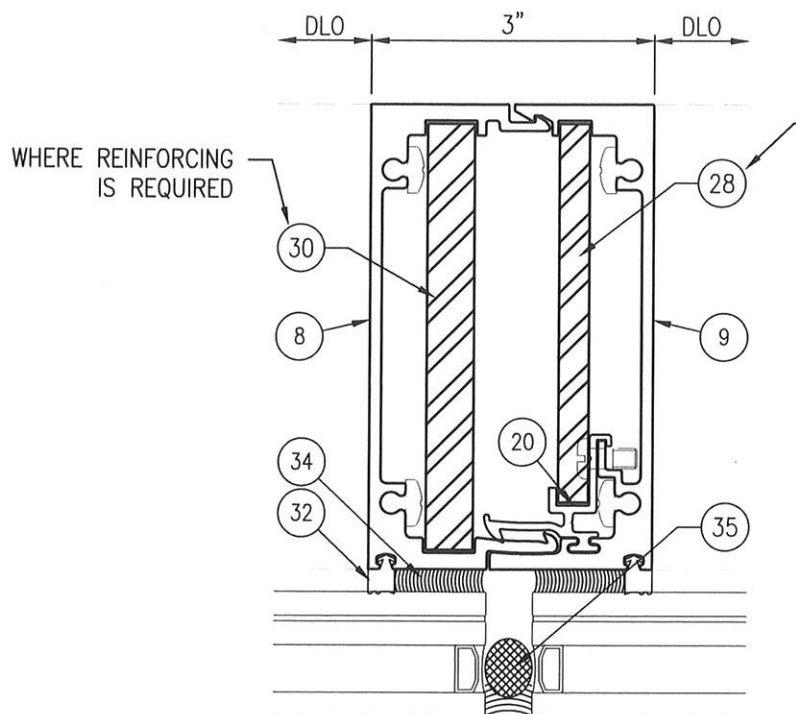
SHEET: 7 OF 11



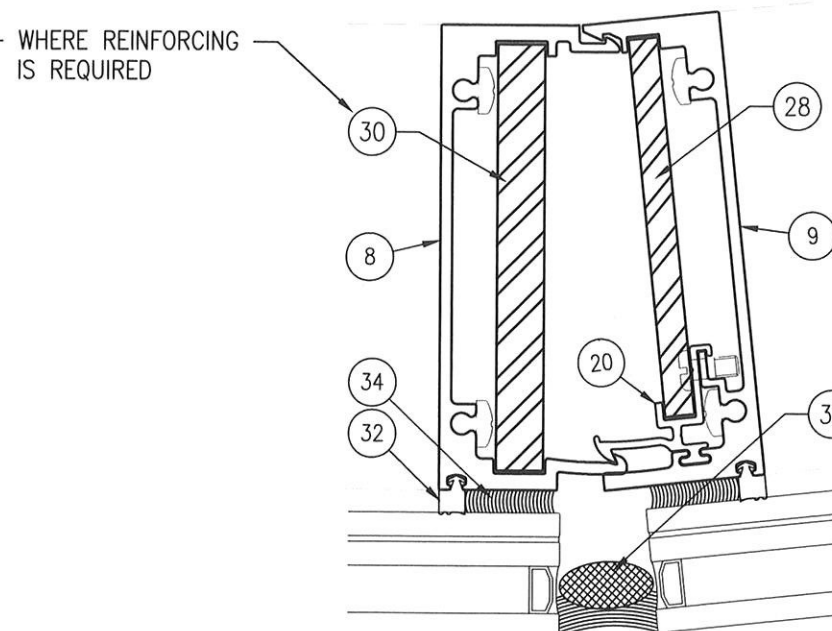
7 MULLION - BUTT GLAZED
9/16" GLAZING Scale: 6" = 1'-0"



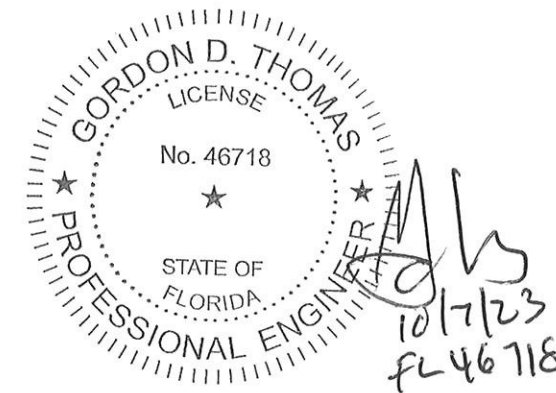
8 MULLION - BUTT GLAZED (SPLAYED)
9/16" GLAZING Scale: 6" = 1'-0"



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



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



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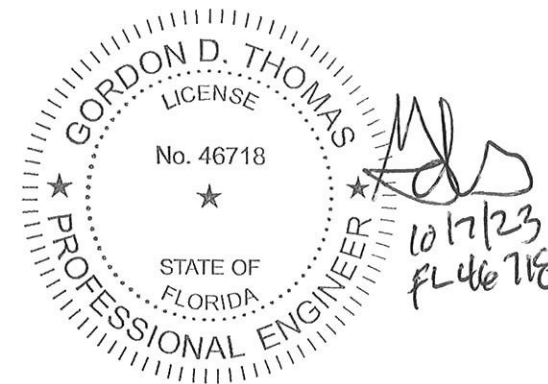
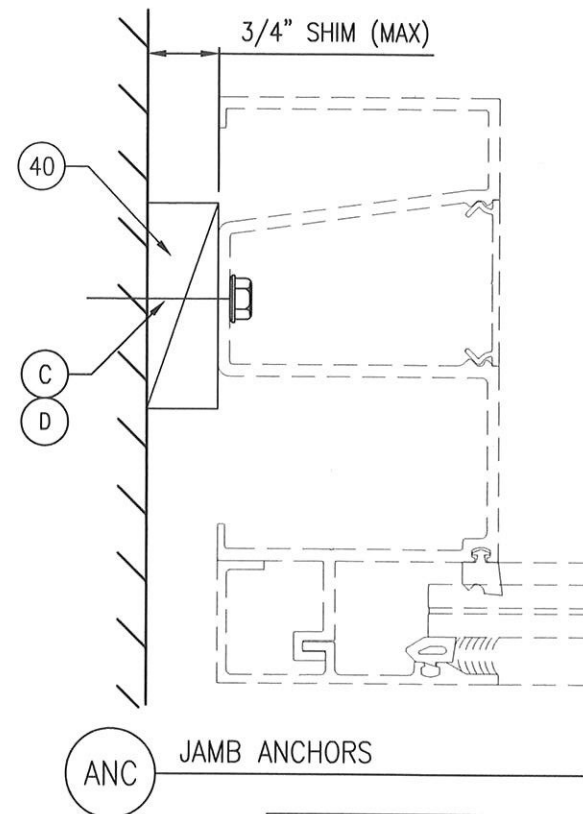
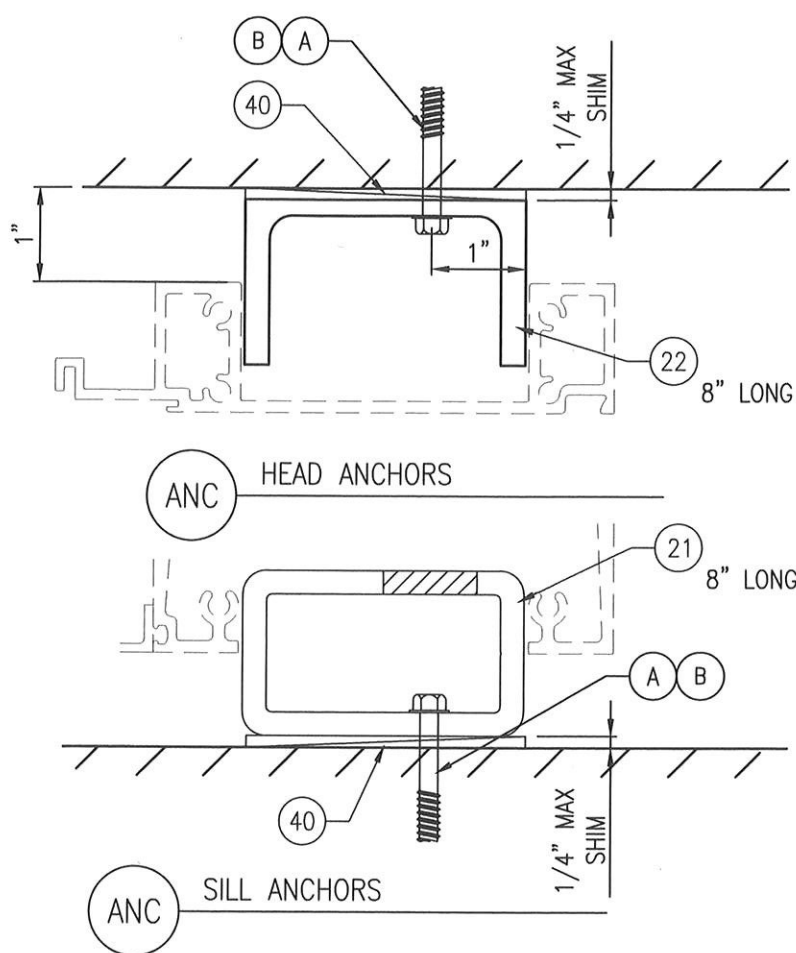
SUN METALS

PRODUCT:
SERIES 650WS WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:
VERTICAL DETAILS

NO	DATE	DESCRIPTION	BY	
			DATE	BY
2	9/15/23	UPDATE TO 8TH ED. (2023) FBC	ECV	JCB
1	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB	JCB

DATE: 11/30/17
SCALE: HALF
DWG. BY: CO
CHK BY: ECV
DRAWING NO.: FL24544.1
SHEET: **8** OF **11**



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



PRODUCT:
SERIES 650WS WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:
ANCHORS AND GLAZING

NO	DATE	DESCRIPTION	BY
2	9/15/23	UPDATE TO 8TH ED. (2023) FBC ECV	JCB
1	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB

DATE: 11/30/17

SCALE: NA

DWG. BY: CO

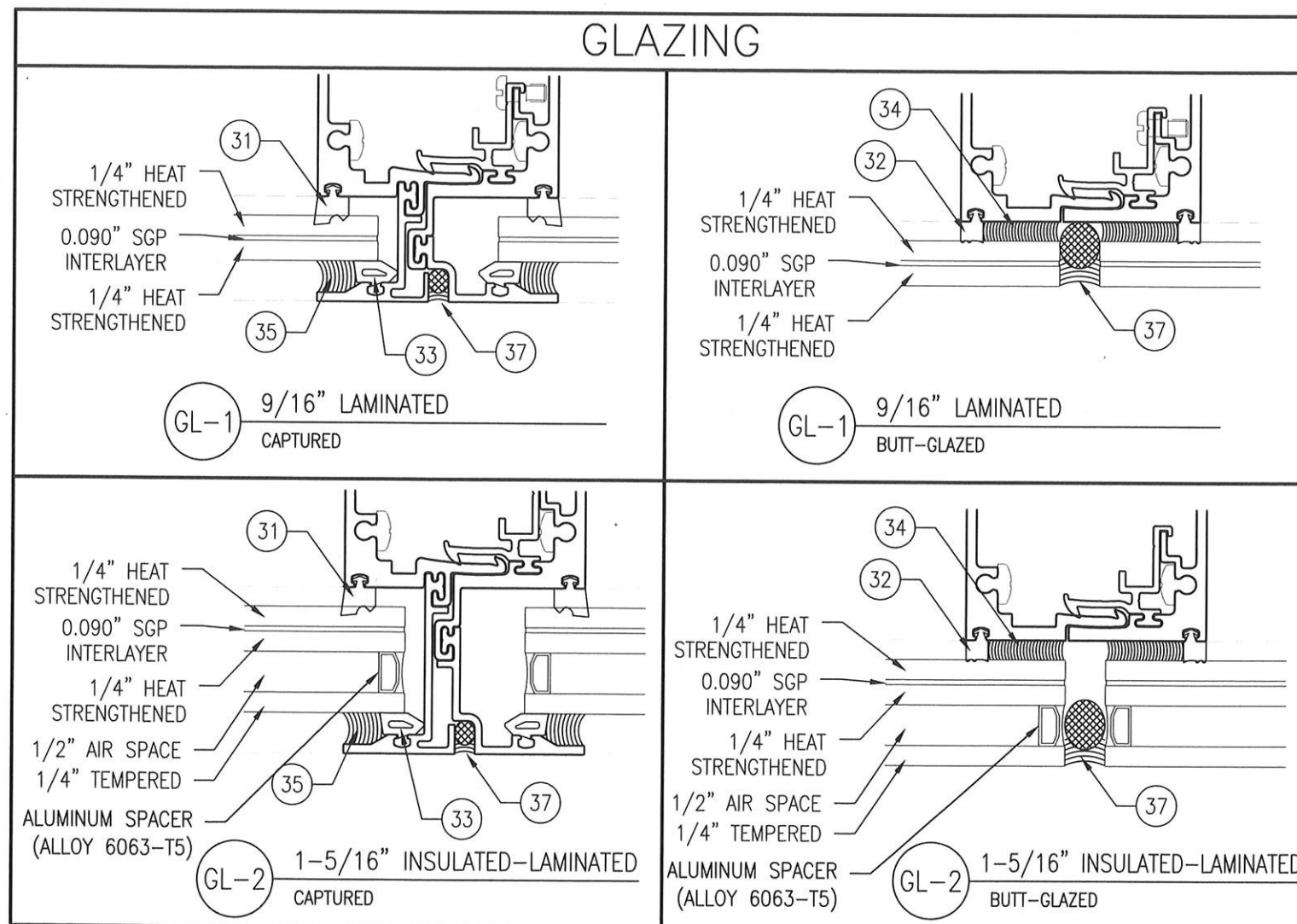
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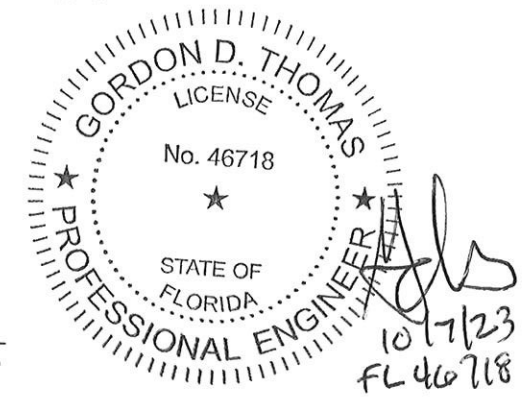
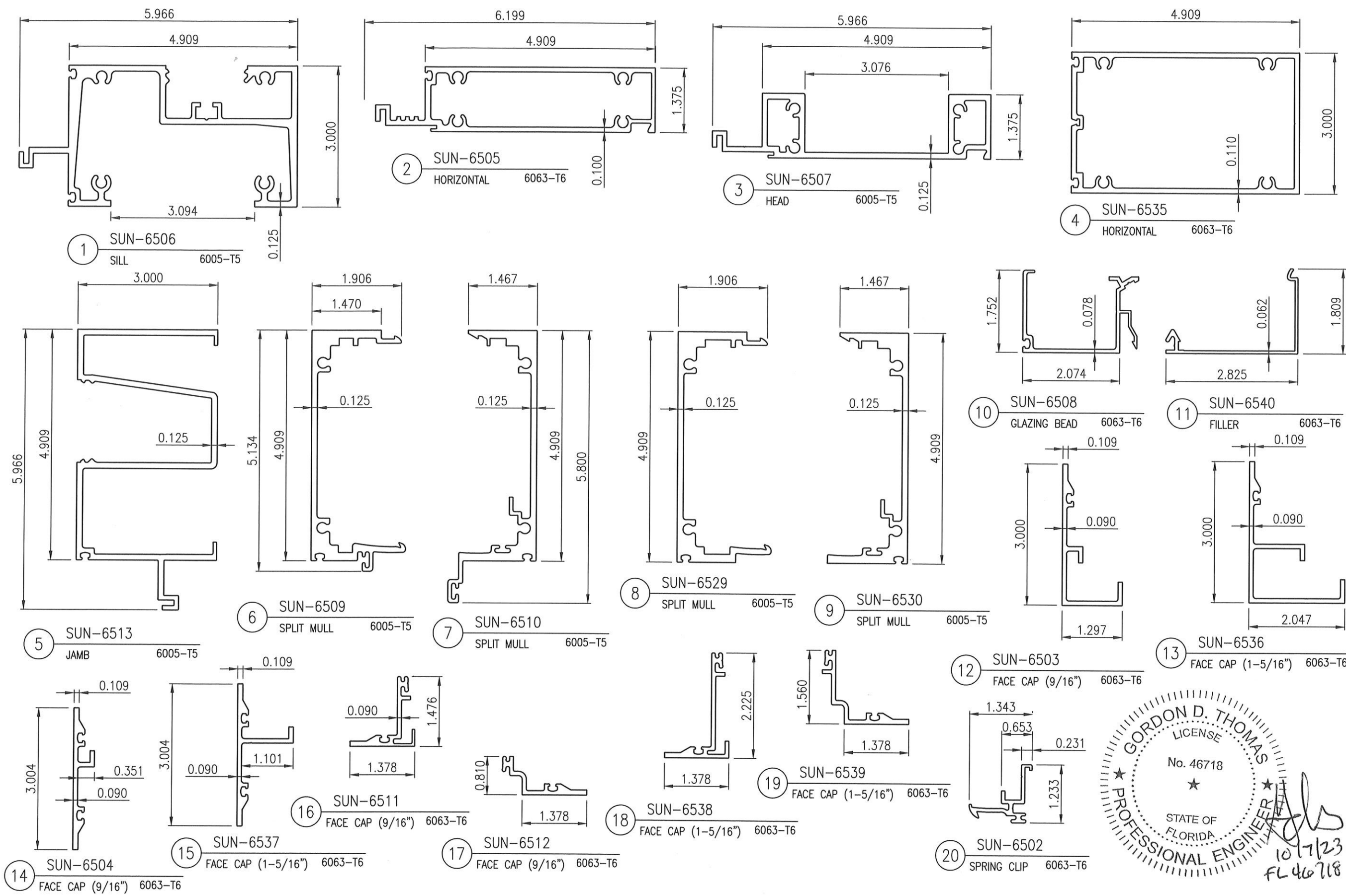
DRAWING NO.:
FL24544.1

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.





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FAX: (813) 886-0666

SUN METALS

PRODUCT:
SERIES 650WS WINDOW WALL
LARGE MISSILE IMPACT

PART OR ASSEMBLY:
COMPONENTS

NO	DATE	DESCRIPTION	BY	REVISIONS	
				DATE	DESCRIPTION
2	9/15/23	UPDATE TO 8TH ED. (2023) FBC	ECV		
1	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB		

DATE: 11/30/17

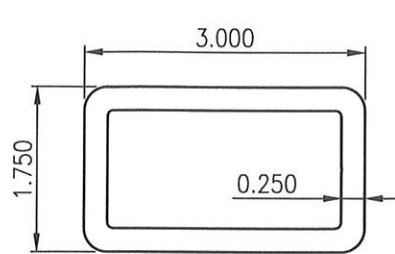
SCALE: HALF

DWG. BY: CO

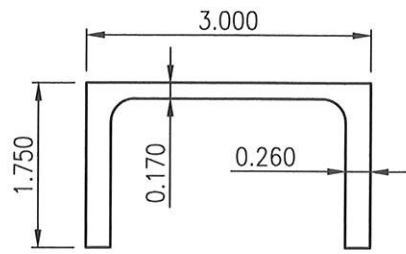
CHK BY: ECV

DRAWING NO.: FL24544.1

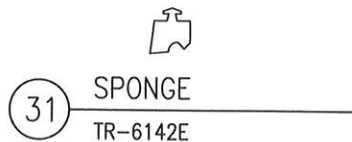
SHEET: **10** OF **11**



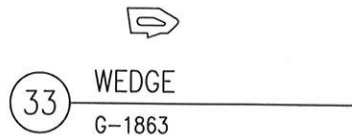
21 SUN-6501
STARTER TUBE 6005-T5



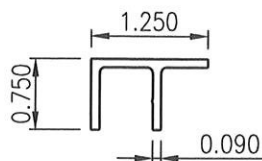
22 C3 X 1.75 X .170/.260
ANCHOR CHANNEL 6005-T5



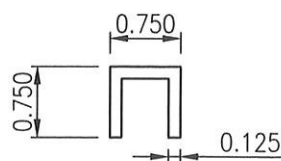
32 CAULK STOP
TR-10681S



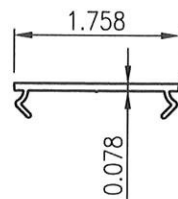
33 WEDGE
G-1863



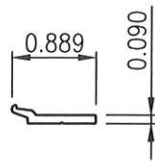
23 SUN-422
SETTING CHAIR 6063-T6



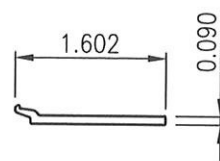
24 ALUMINUM CHANNEL
SETTING CHAIR 6063-T5



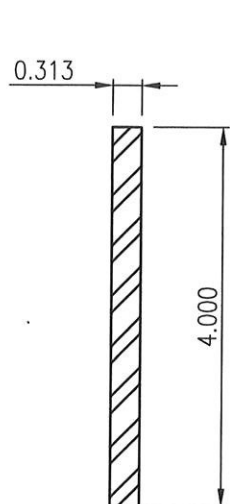
25 SUN-402
POCKET FILLER 6063-T6



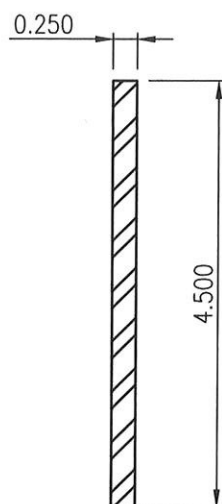
26 SUN-6132
SETTING CHAIR 6063-T6



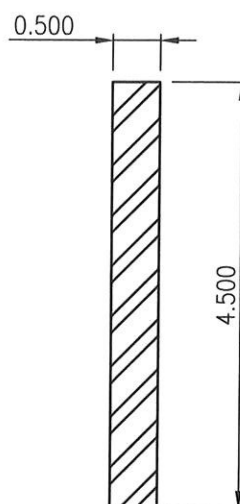
27 SUN-6133
SETTING CHAIR 6063-T6



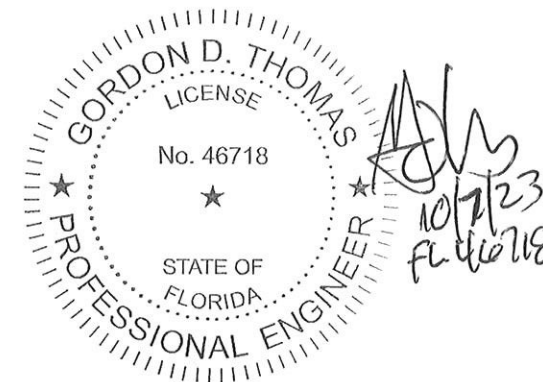
28 4" X 5/16" BAR
STEEL REINFORCING A36



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



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



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	
12	SUN-6503	FACE CAP (9/16" GLAZING)	6063-T6	SUN METALS	
13	SUN-6536	FACE CAP (1 5/16" GLAZING)	6063-T6	SUN METALS	
14	SUN-6504	FACE CAP (9/16" GLAZING)	6063-T6	SUN METALS	
15	SUN-6537	FACE CAP (1 5/16" GLAZING)	6063-T6	SUN METALS	
16	SUN-6511	FACE CAP (9/16" GLAZING)	6063-T6	SUN METALS	
17	SUN-6512	FACE CAP (9/16" GLAZING)	6063-T6	SUN METALS	
18	SUN-6538	FACE CAP (1 5/16" GLAZING)	6063-T6	SUN METALS	
19	SUN-6539	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	
24		3/4" x 3/4" x 1/8" ALUM CHANNEL (4" LONG)	6063-T5	VARIES	SETTING CHAIR
25	SUN-402	POCKET FILLER	6063-T6	SUN METALS	
26	SUN-6132	SETTING CHAIR (9/16" BUTT-GLAZED)	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.
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PRODUCT:

SUN 650WS
LARGE MISSILE IMPACT

PART OR ASSEMBLY:

COMPONENTS AND
BILL OF MATERIALS

DATE: 11/30/17

SCALE: HALF

DWG. BY: CO

CHK BY: ECV

DRAWING NO.:
FL24544.1

SHEET: 11 OF 11