

SERIES 450WW

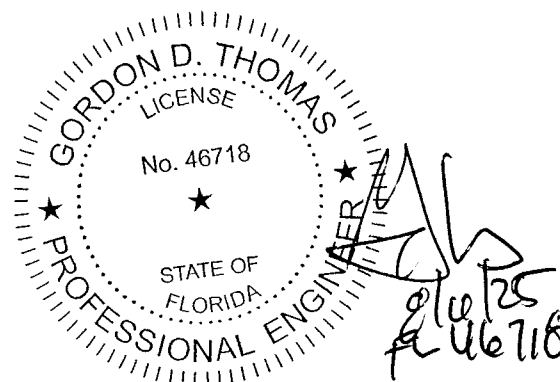
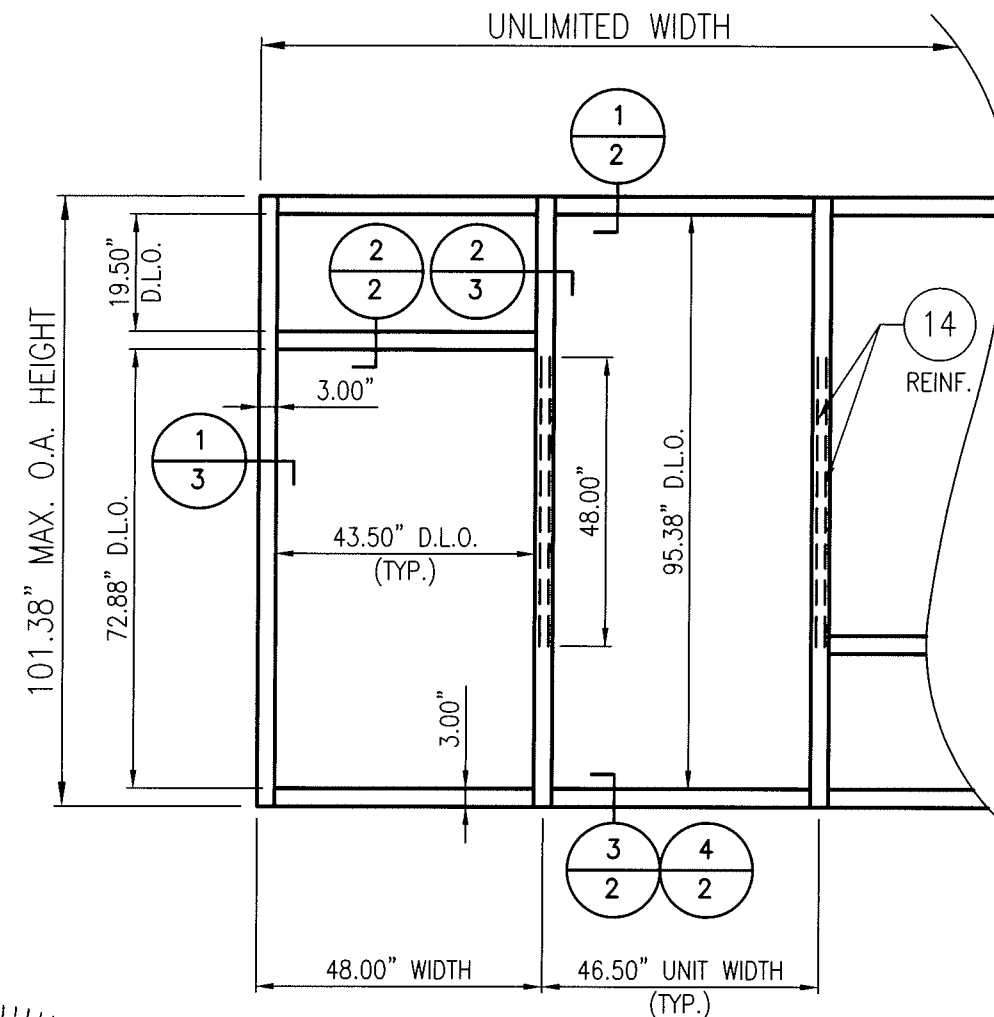
ALUMINUM FIXED WINDOW WALL

"SMALL MISSILE IMPACT"

GENERAL NOTES:

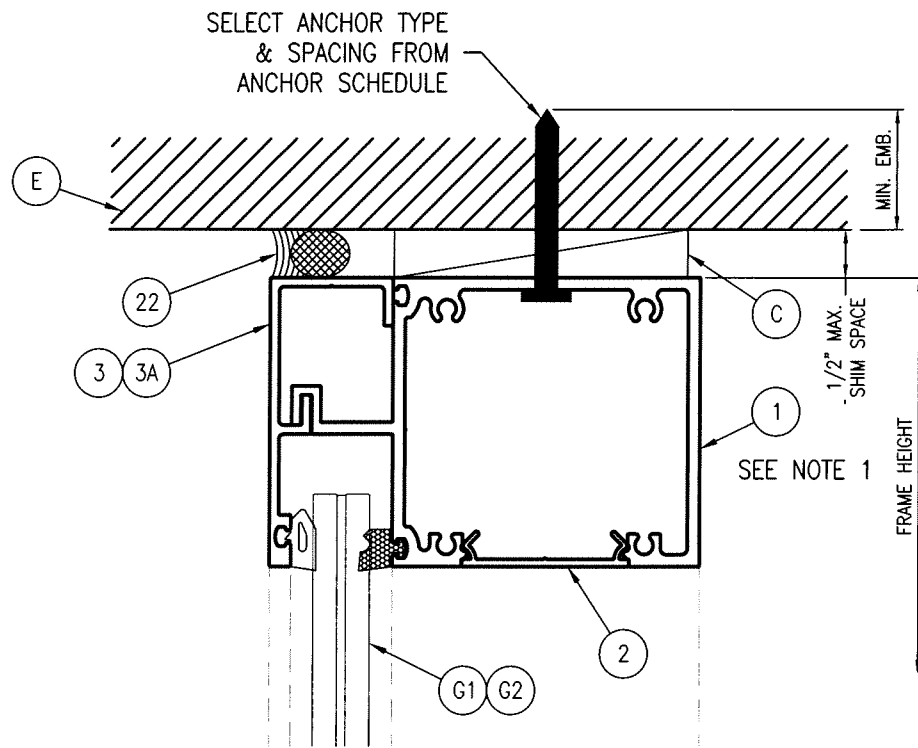
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in "HVHZ", for installation above 30 feet above grade, this product complies with Section 1626 of the Florida Building Code as a small missile impact resistant product and does not require an impact resistant covering. For installations 30 feet or less above grade, this product must be protected with an impact resistant covering that complies with Section 1626 of the Florida Building Code.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, for installations above 30 feet above grade this product complies with Section 1609.1.2 of the 2023 FBC as a small missile impact resistant product and does not require an impact resistant covering. For installations 30 feet or less above grade, this product must be protected with an impact resistant covering that complies with Section 1609.1.2 of the Florida Building Code.
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". WATER INFILTRATION: 20 PSF
7. Gaskets and setting blocks shall comply with Section 2411.3.4 of the FBC.
8. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.

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4	HEAD ANCHORING ELEVATIONS & ANCHORING SCHEDULE
5	SILL ANCHORING ELEVATIONS
6	COMPONENTS
7	BILL OF MATERIAL, GLAZING DETAILS AND COMPONENTS

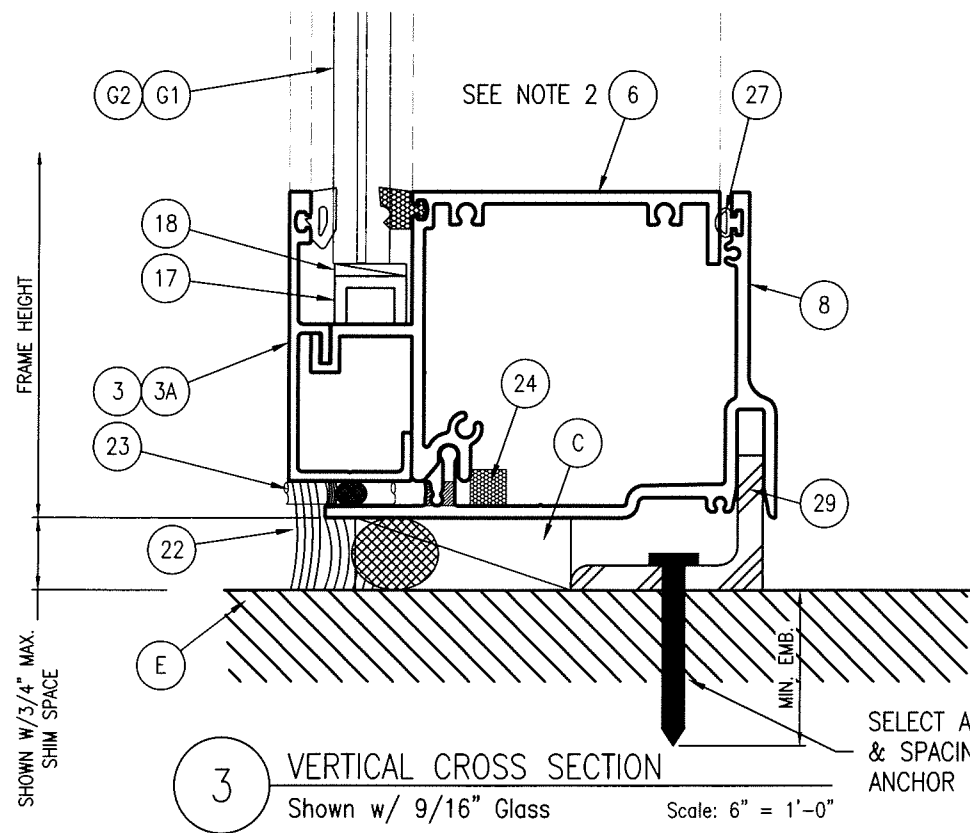


MAX. OPENING HEIGHT	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
101.38"	43.50" x 72.88"	G1	+115.0	-115.0
	43.50" x 95.38"	G2	+115.0	-115.0

5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666			
PRODUCT: SUN METALS ALUMINUM WINDOW WALL	PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES		
4	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
3	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JOB
2	2/01/19	UPDATE TO 6TH ED. (2017) FBC	ECV
1	2/17/15	UPDATE TO 5TH ED. (2014) FBC	LFS
NO	DATE	DESCRIPTION	BY
REVISIONS			
DATE: 8/23/12			
SCALE: N.T.S			
DWG. BY: CO			
CHK BY: ECV			
DRAWING NO.: FL-15891.4			
SHEET: 1 OF 1			



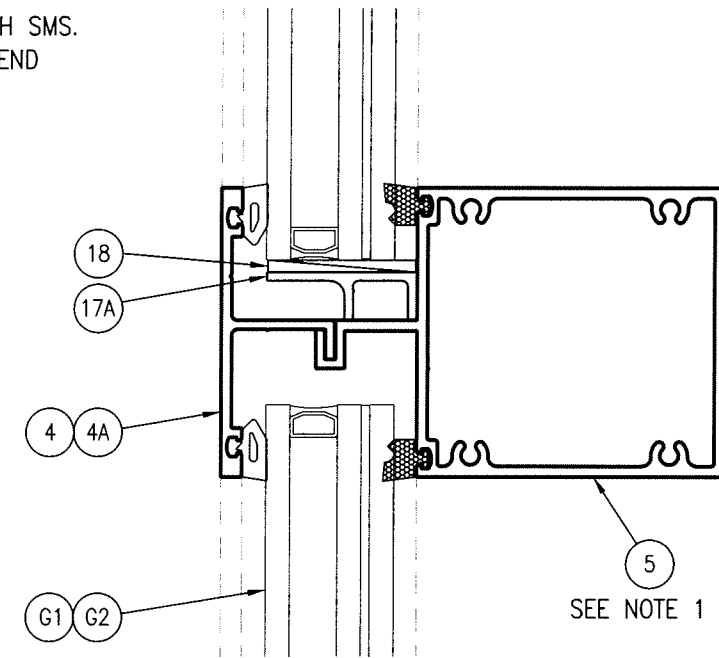
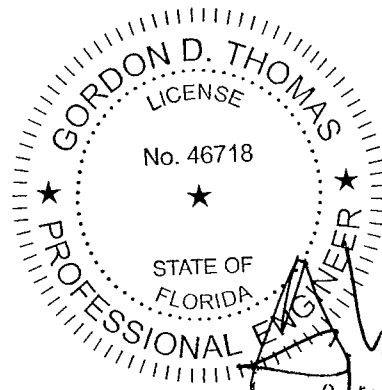
1 VERTICAL CROSS SECTION
Shown w/ 9/16" Glass Scale: 6" = 1'-0"



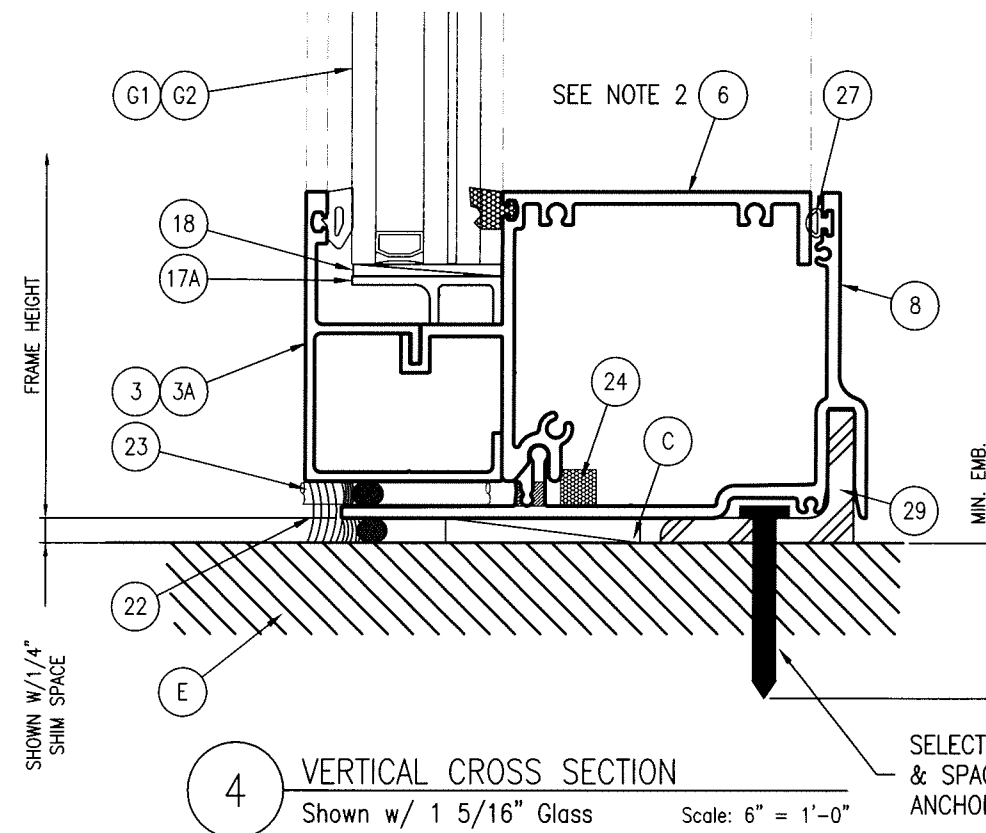
3 VERTICAL CROSS SECTION
Shown w/ 9/16" Glass Scale: 6" = 1'-0"

NOTES:

1. FRAME HEAD AND HORIZONTALS ARE ATTACHED TO JAMBS/MULLIONS AT EACH END WITH (4) #12 x 1-1/2" PH SMS.
2. FRAME SILL IS ATTACHED TO JAMBS/MULLIONS AT EACH END WITH (3) #12 x 1-1/2" PH SMS

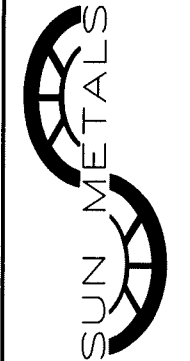


2 VERTICAL CROSS SECTION
Shown w/ 1 5/16" Glass Scale: 6" = 1'-0"



4 VERTICAL CROSS SECTION
Shown w/ 1 5/16" Glass Scale: 6" = 1'-0"

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



PRODUCT:		SUN METALS	
		ALUMINUM WINDOW WALL	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO	DATE	DESCRIPTION	BY
4	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
3	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB
2	2/01/19	UPDATE TO 6TH ED. (2017) FBC	ECV
1	2/17/15	UPDATE TO 5TH ED. (2014) FBC	LFS

DATE: 8/23/12

SCALE: N.T.S

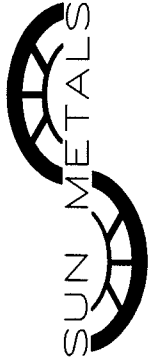
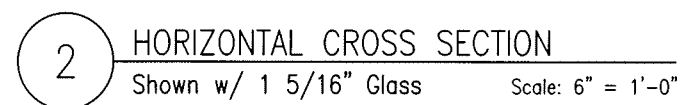
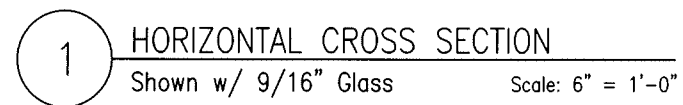
DWG. BY: CO

CHK BY: ECV

DRAWING NO.:

FL-15891.4

SHEET: 2 OF 7



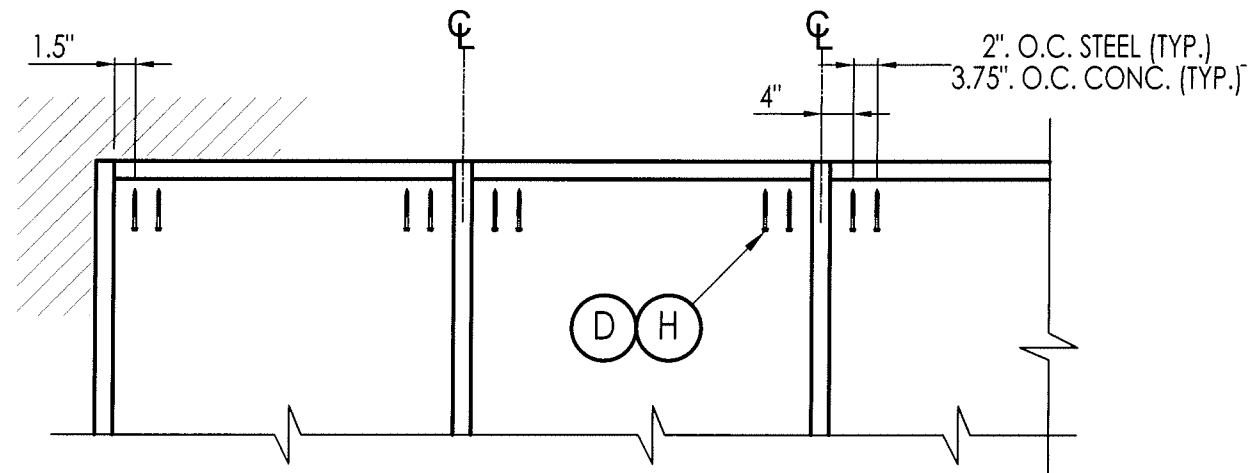
PRODUCT:

SUN METALS
ALUMINUM WINDOW WALL

PART OR ASSEMBLY:

HORIZONTAL CROSS SECTIONS

DATE: 8/23/12
SCALE: N.T.S
DWG. BY: CO
CHK BY: ECV
DRAWING NO.: FL-15891.4
SHEET: 3 OF 7

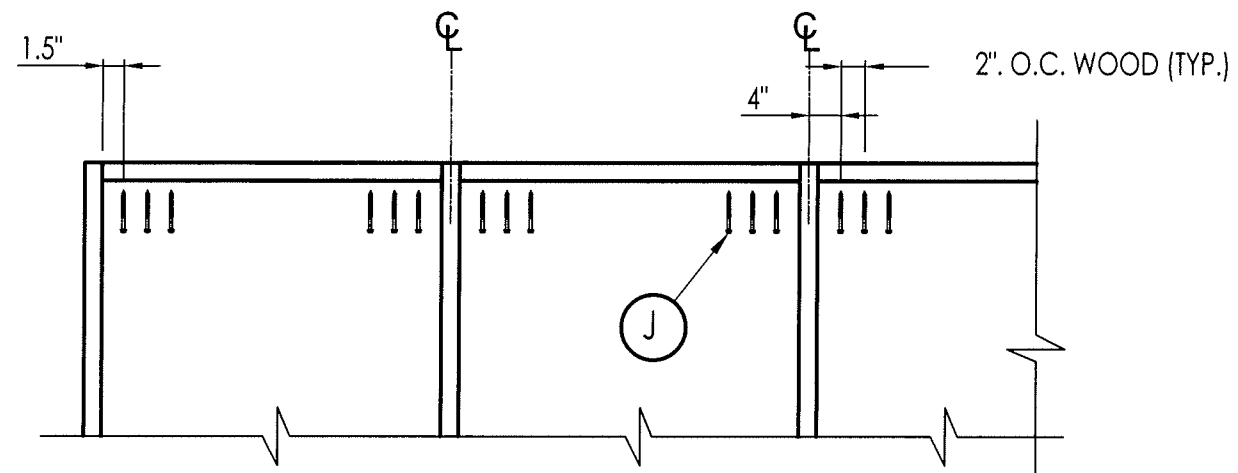


ANCHORING

(CONCRETE & STEEL)

MAX. SHIM SPACE @ HEAD $\leq 1/4"$

MAX. DP <= 75 PSF

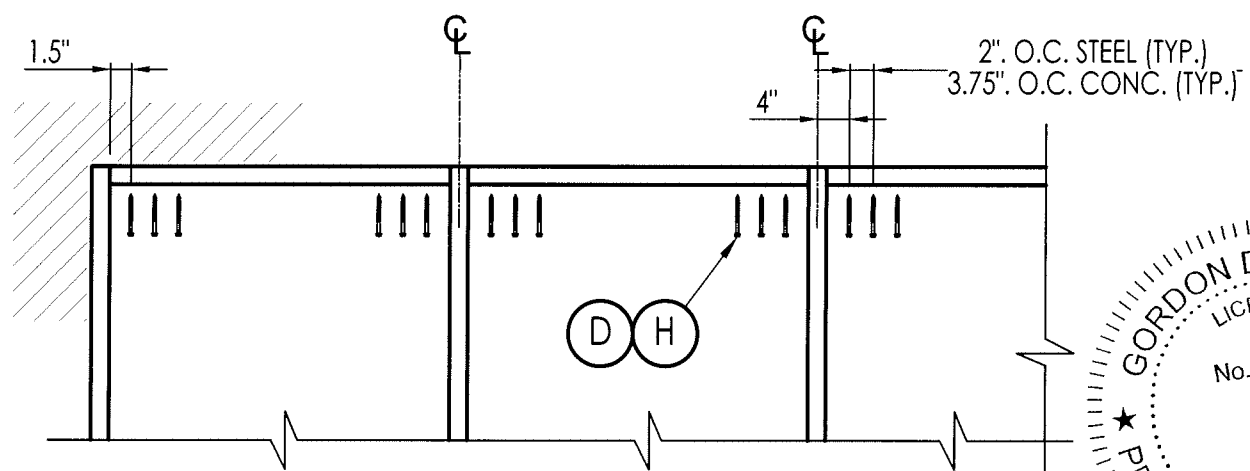


ANCHORING

(WOOD)

MAX. SHIM SPACE @ HEAD $\leq 1/4"$

MAX. DP <= 75 PSF

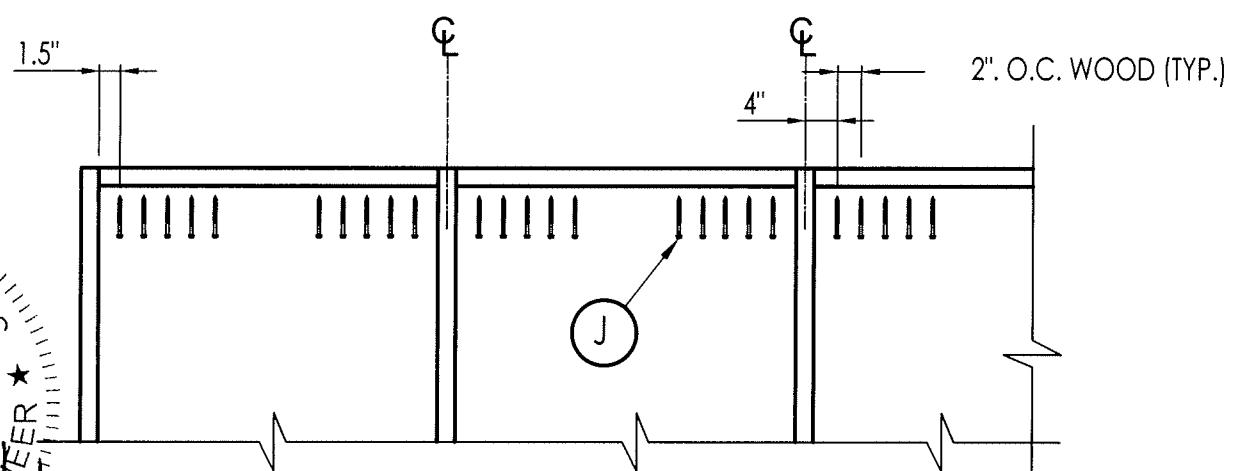


ANCHORING

(CONCRETE & STEEL)

MAX. SHIM SPACE @ HEAD $\leq 1/4"$

MAX. DP @ HEAD <= 115 PSF

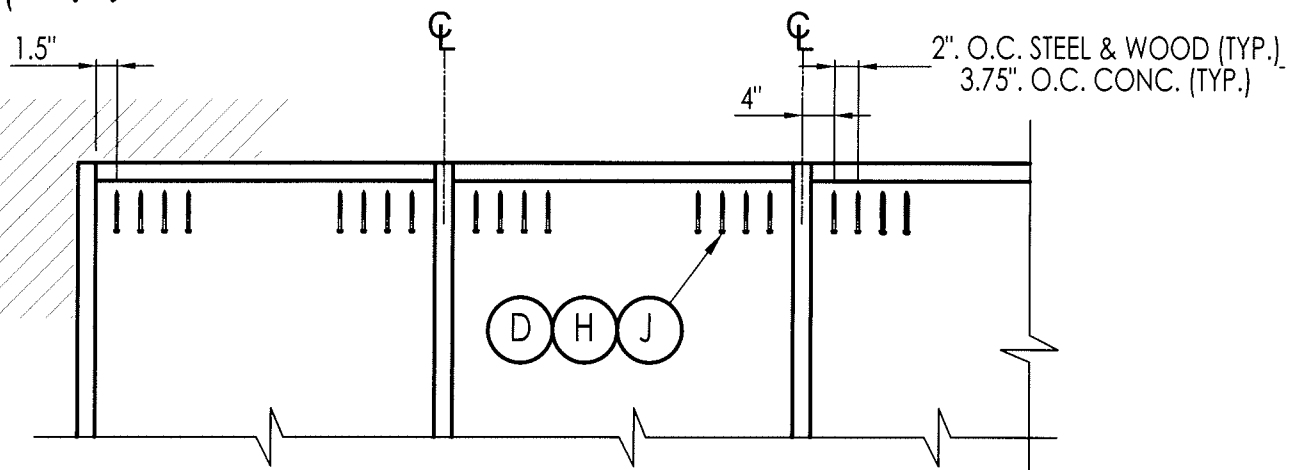


ANCHORING

(WOOD)

MAX. SHIM SPACE @ HEAD $\leq 1/4"$

MAX. DP @ HEAD <= 115 PSF



ANCHORING

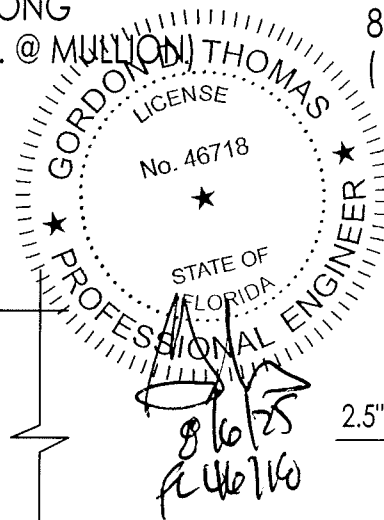
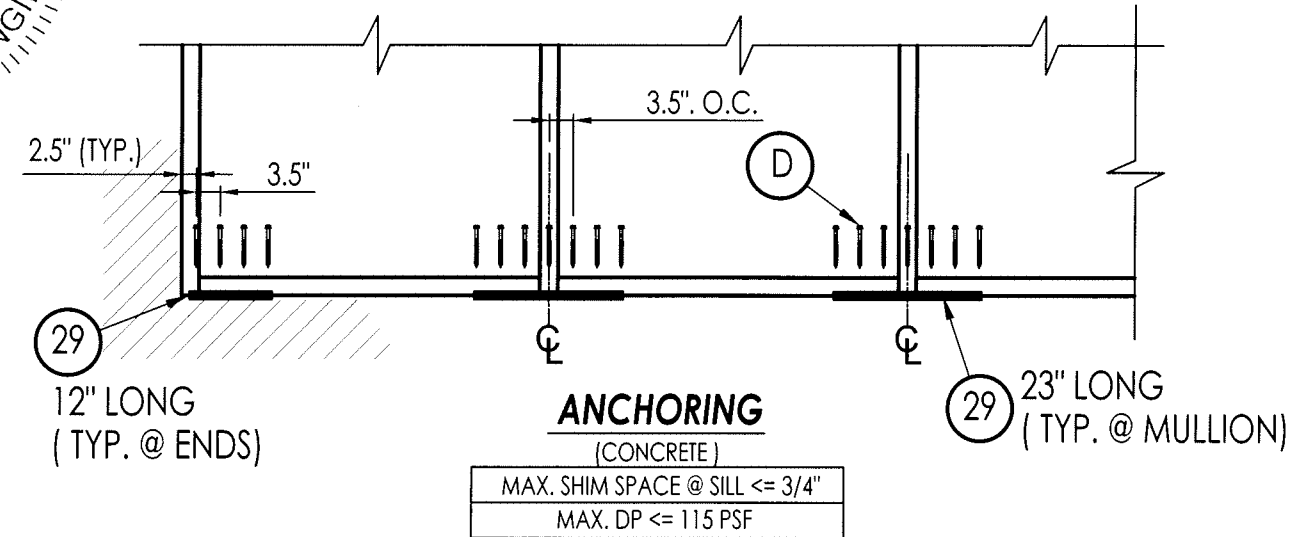
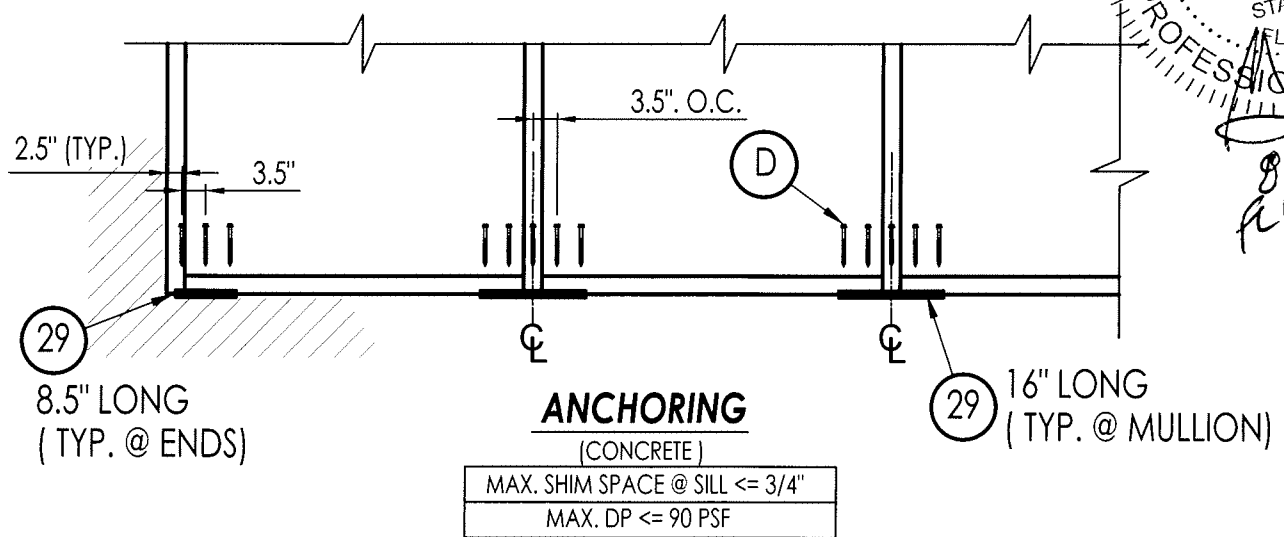
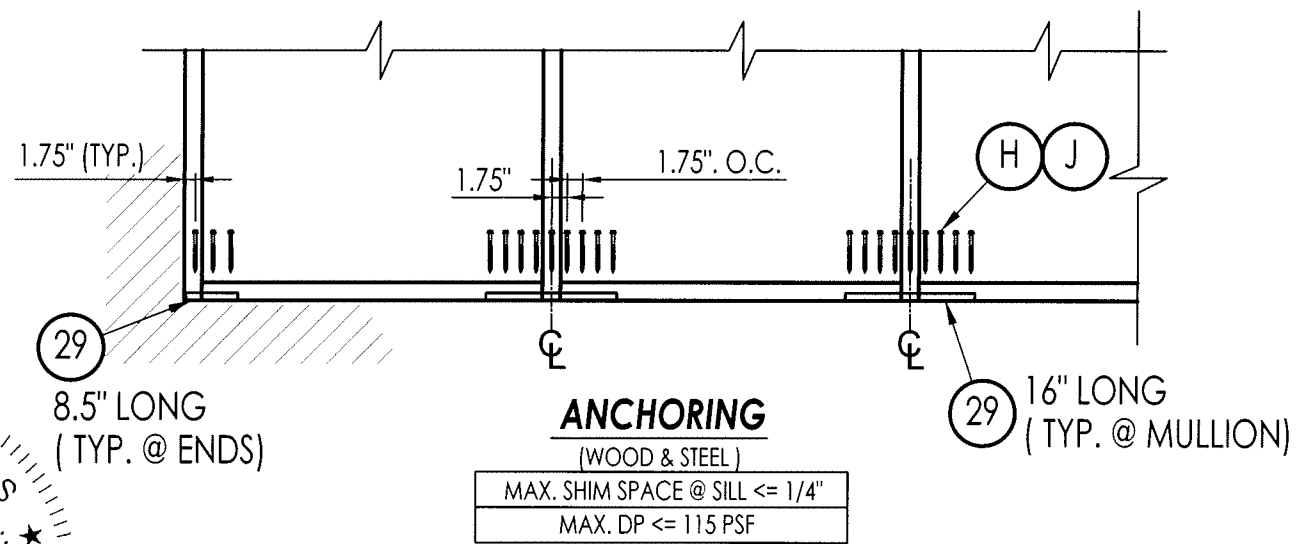
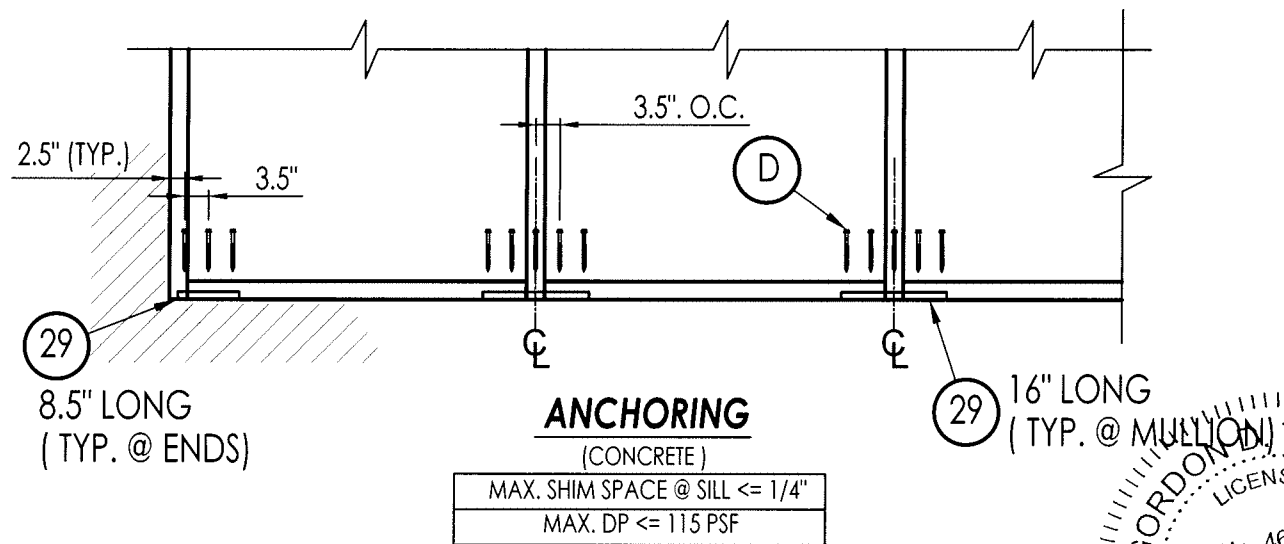
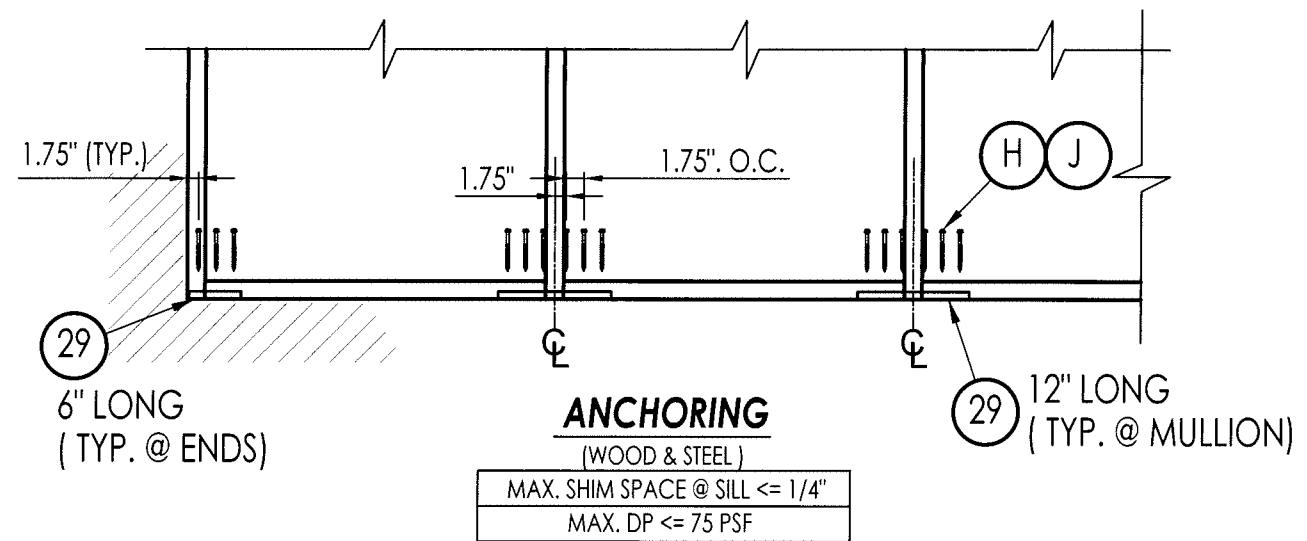
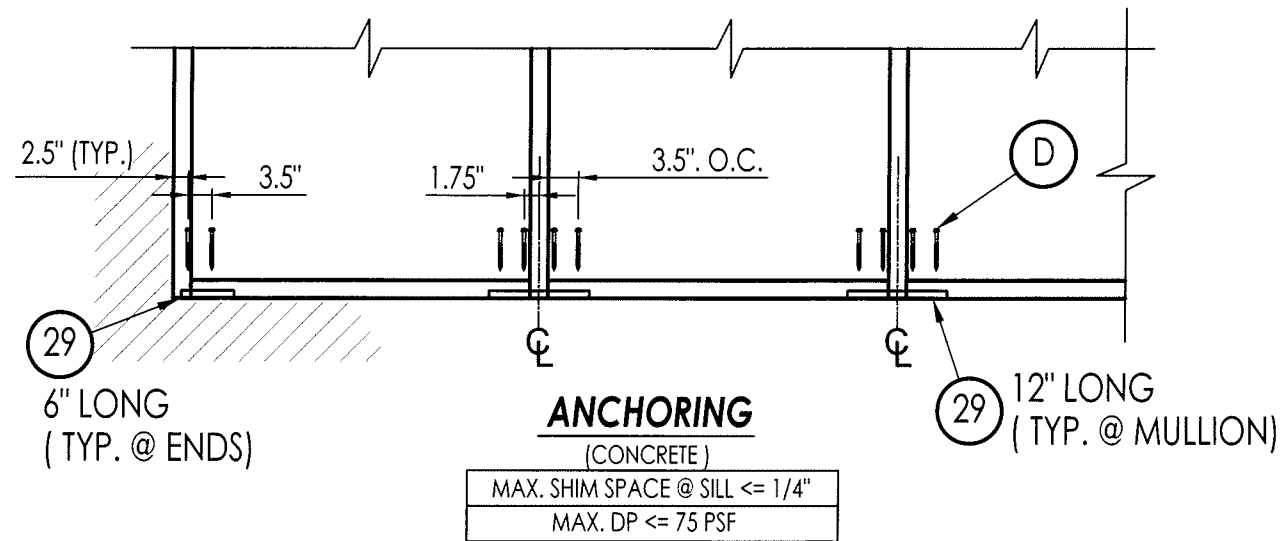
(CONCRETE, STEEL & WOOD)

MAX. SHIM SPACE @ HEAD $\leq 1/2"$

MAX. DP <= 75 PSF

SUBSTRATE		ANCHOR SCHEDULE
CONCRETE	(D)	5/16"Ø HWH ITW Tapcon® XL concrete anchor with 1-3/4" min. embedment, 2-3/16" minimum edge distance and 3-3/4" (@ head) & 3-1/2" (@ sill) min. clearance to adjacent concrete anchors. Concrete is 3000 PSI minimum conforming to ACI 301.
STEEL	(H)	5/16"Ø HWH Hilti KWIK-FLEX self-drilling screws w/ minimum 3 threads protruding through the substrate. 1" min. edge distance and 1" min CL to CL spacing. Steel shall be ASTM A653 Grade 33 with Fy=33 KSI min, and Fu=45 KSI min. 0.06" min. thickness (16 ga. min.)
WOOD	(J)	#24 wood screw with 2-1/4" embedment, 1-1/2" minimum edge distance and 1-1/2" CL to CL minimum. 2x wood substrate SG >= 0.55

5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666			
SUN METALS ALUMINUM WINDOW WALL		SUN METALS PART OR ASSEMBLY: HEAD ANCHORING ELEVATIONS & ANCHORING SCHEDULE	
<u>PRODUCT:</u>		<u>PART OR ASSEMBLY:</u>	
4	7/14/25	UPDATE TO 8TH ED. (2023)	FBC ECV
3	9/21/20	UPDATE TO 7TH ED. (2020)	FBC JCB
2	2/01/19	UPDATE TO 6TH ED. (2017)	FBC ECV
1	2/17/15	UPDATE TO 5TH ED. (2014)	FBC LFS
NO	DATE	DESCRIPTION	BY
REVISIONS			
DATE: 8/23/12			
SCALE: N.T.S			
DWG. BY: CO			
CHK BY: ECV			
DRAWING NO.: FL-15891.4			
SHEET: 4 OF 7			



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



PRODUCT: SUN METALS
ALUMINUM WINDOW WALL
PART OR ASSEMBLY: SILL ANCHORING ELEVATIONS

NO	DATE	DESCRIPTION	BY
4	7/14/25	UPDATE TO 8TH ED. (2023) FBC ECV	
3	9/21/20	UPDATE TO 7TH ED. (2020) FBC JCB	
2	2/01/19	UPDATE TO 6TH ED. (2017) FBC ECV	
1	2/17/15	UPDATE TO 5TH ED. (2014) FBC LFS	

DATE: 8/23/12

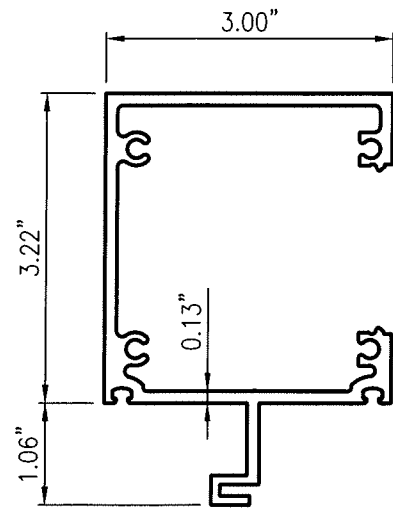
SCALE: N.T.S

DWG. BY: CO

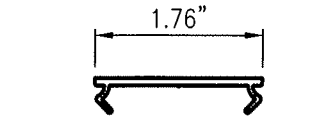
CHK BY: ECV

DRAWING NO.:
FL-15891.4

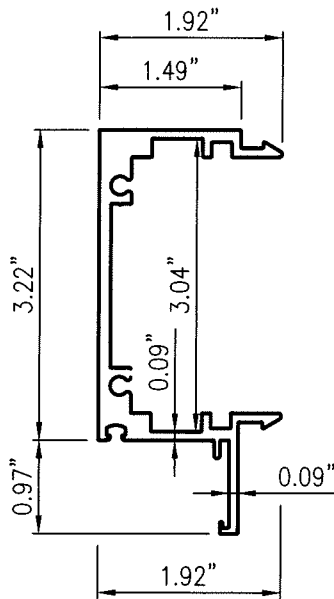
SHEET: 5 OF 7



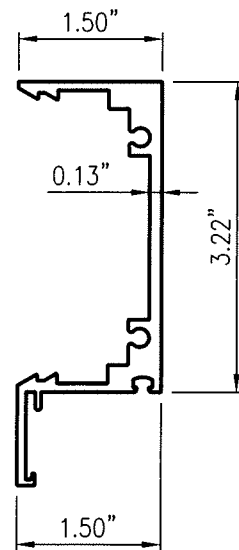
1 FRAME JAMB/ HEAD



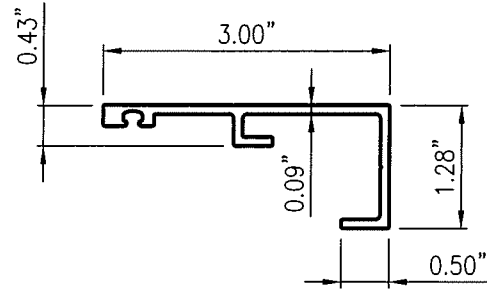
2 FILLER



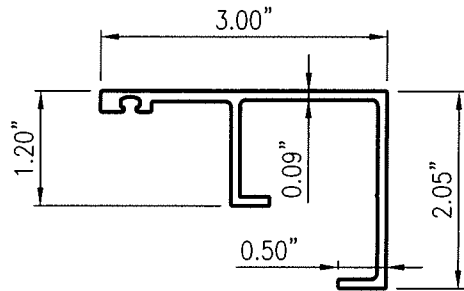
9 MALE MULLION



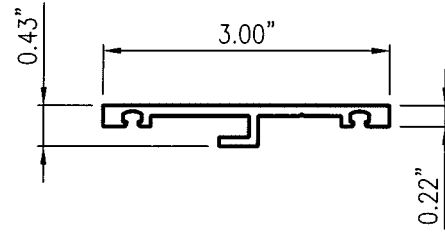
10 FEMALE MULLION



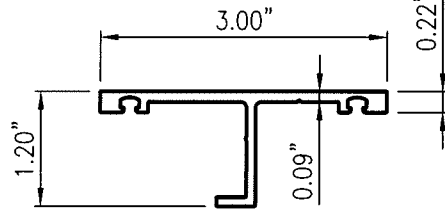
3 FACE CAP
Head/jamb



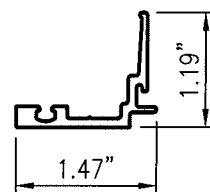
3A FACE CAP
Head/jamb



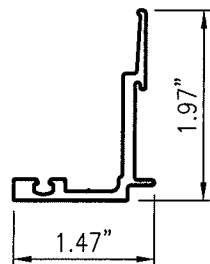
4 FACE CAP
Rail



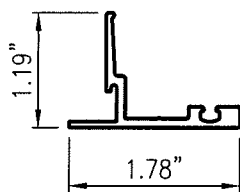
4A FACE CAP
Rail



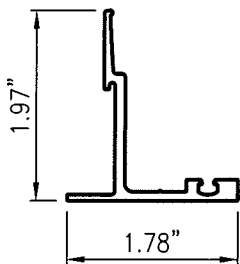
11 SPLIT MULLION CAP



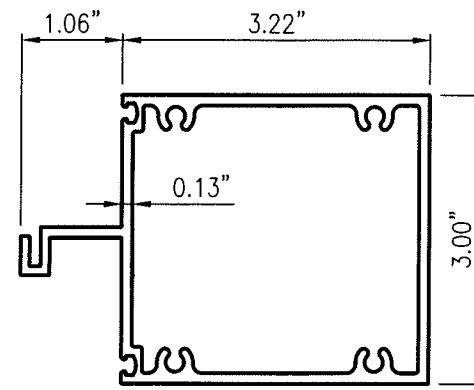
11A SPLIT MULLION CAP



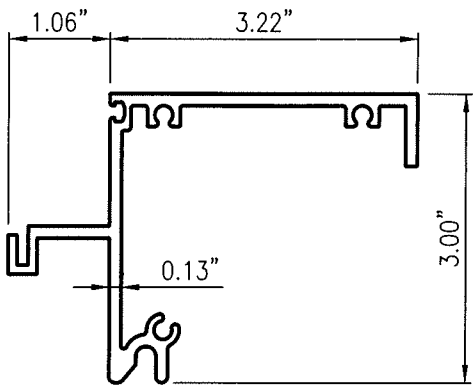
12 SPLIT MULLION CAP



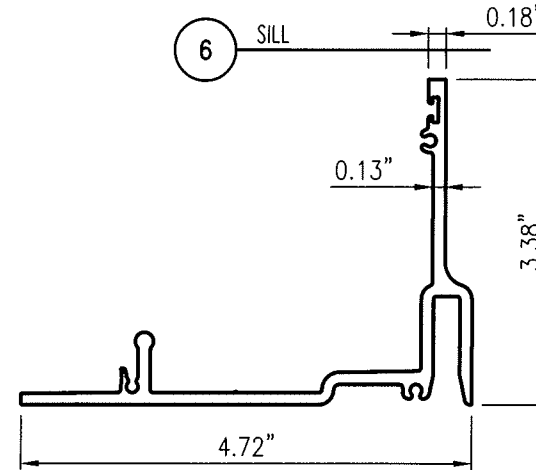
12A SPLIT MULLION CAP



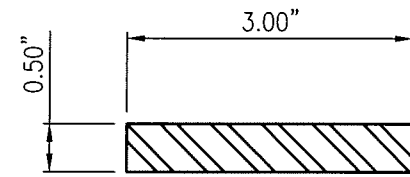
5 HORIZONTAL/ JAMB



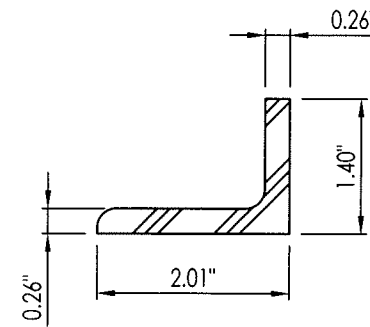
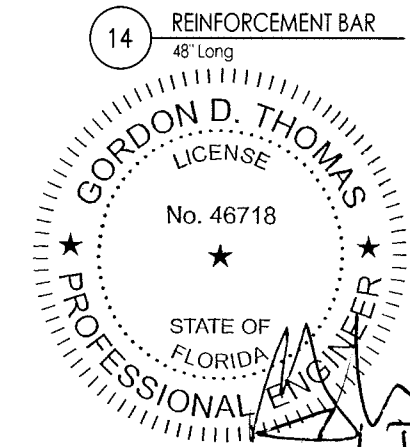
6 SILL



8 STARTER SILL



14 REINFORCEMENT BAR
48" Long

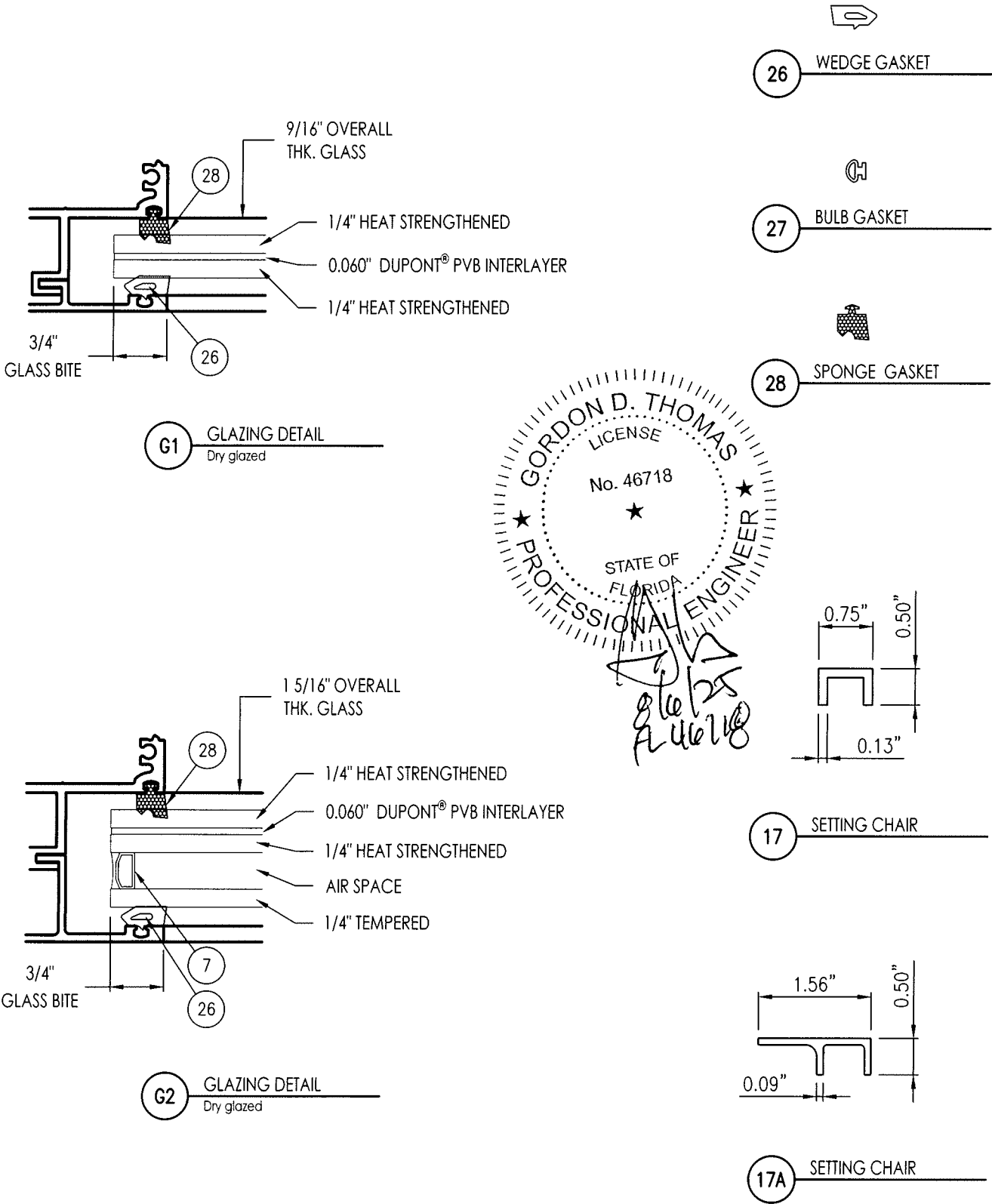


29 SILL ANCHOR BRACKET
(ANCHOR BRACKET LENGTH VARIES)

5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666		SUN METALS	
PRODUCT: SUN METALS ALUMINUM WINDOW WALL		PART OR ASSEMBLY: COMPONENTS	
4	7/14/25	UPDATE TO 8TH ED. (2023)	FBC ECV
3	9/21/20	UPDATE TO 7TH ED. (2020)	FBC JCB
2	2/01/19	UPDATE TO 6TH ED. (2017)	FBC ECV
1	2/17/15	UPDATE TO 5TH ED. (2014)	FBC LFS
NO	DATE	DESCRIPTION	BY
DATE: 8/23/12			
SCALE: N.T.S			
DWG. BY: CO			
CHK BY: ECV			
DRAWING NO.: FL-15891.4			
SHEET: 6 OF 7			

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	MAX. SHIM SPACE (1/2" @ HEAD, 3/4" @ SILL)	-
D	5/16" x 2 3/4" HWH ITW TAPCON XL CONCRETE ANCHOR	STEEL
E	SUBSTRATE MATERIAL	-
H	5/16" HILTI KWIK-FLEX SELF DRILLING SMS	STEEL
J	#24 x 2 1/4" WOOD SCREW	STEEL
1	FRAME JAMB/ HEAD (SUN-413)	ALUMINUM
2	SNAP FILLER (SUN-402)	ALUMINUM
3	FACE CAP HEAD/ JAMB (SUN-403)	ALUMINUM
3A	FACE CAP HEAD/ JAMB (SUN-436)	ALUMINUM
4	FACE CAP RAIL (SUN-404)	ALUMINUM
4A	FACE CAP RAIL (SUN-437)	ALUMINUM
5	HORIZONTAL (SUN-405)	ALUMINUM
6	SILL (SUN-406)	ALUMINUM
7	ALUMINUM SPACER	ALUMINUM
8	STARTER SILL (SUN-453)	ALUMINUM
9	MALE SPLIT MULLION (SUN-409)	ALUMINUM
10	FEMALE SPLIT MULLION (SUN-410)	ALUMINUM
11	SPLIT MULLION FACE CAP (SUN-411)	ALUMINUM
11A	SPLIT MULLION FACE CAP (SUN-438)	ALUMINUM
12	SPLIT MULLION FACE CAP (SUN-412)	ALUMINUM
12A	SPLIT MULLION FACE CAP (SUN-439)	ALUMINUM
14	REINFORCEMENT STEEL BAR (1/2" x 3" STEEL BAR)	ASTM A36 STEEL
15	#12 x 1" SELF DRILLING SCREW	STEEL
17	SETTING CHAIR (1/2" x 3/4" x 1/8" U-CHANNEL)	ALUMINUM
17B	SETTING CHAIR (SUN-422)	ALUMINUM
18	1/8" SETTING BLOCK	EPDM
19	TAPE SEALANT	-
20	SEAM SEALANT	-
22	PERIMETER SILICONE SEALANT	SILICONE
23	WEEP STRAW	-
24	WEEP BAFFLE	-
26	EXTRUDED 70 DURO. WEDGE GASKET (TR-11419)	EPDM
27	EXTRUDED 60 DURO. BULB GASKET (TR-5783E)	EPDM
29	SILL ANCHOR BRACKET	ALUMINUM
30	NEOPRENE SPONGE GASKET (TR-6072N)	NEOPRENE

NOTE: ALL FRAME ALUMINUM IS 6063-T6



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PRODUCT: SUN METALS ALUMINUM WINDOW WALL		PART OR ASSEMBLY: BILL OF MATERIALS GLAZING DETAILS & COMPONENTS	
		ECV	BY
		FBC	
		(2023)	
		UPDATE TO 8TH ED.	
		7/14/25	
		FBC	
		(2020)	
		UPDATE TO 7TH ED.	
		9/21/20	
		FBC	
		(2017)	
		UPDATE TO 6TH ED.	
		2/01/19	
		FBC	
		(2014)	
		UPDATE TO 5TH ED.	
		2/17/15	
		LFS	
		DESCRIPTION	
		NO	
		DATE	
		REVISIONS	
DATE: 8/23/12			
SCALE: N.T.S			
DWG. BY: CO			
CHK BY: ECV			
DRAWING NO.: FL-15891.4			
SHEET: 1 OF 1			