

SERIES 650WW

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.

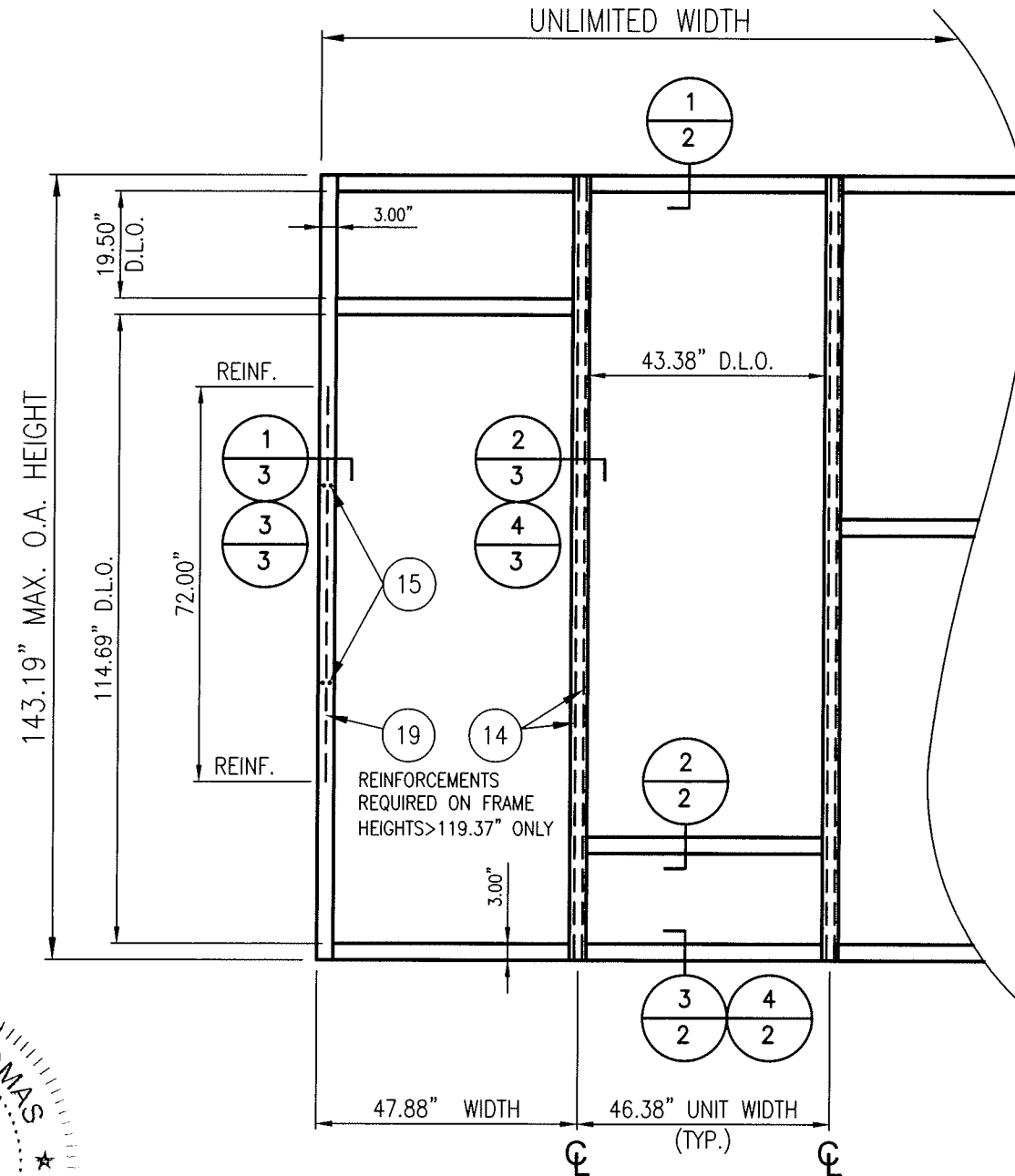
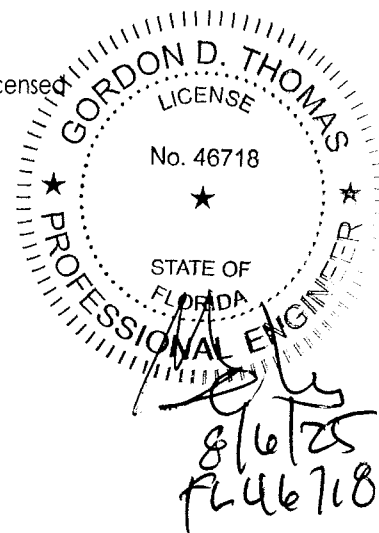


TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS, DESIGN PRESSURES AND GENERAL NOTES
2	VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTIONS
4	HEAD ANCHORING ELEVATIONS & ANCHORING SCHEDULE
5	SILL ANCHORING ELEVATIONS
6	COMPONENTS
7	BILL OF MATERIAL, GLAZING DETAILS AND COMPONENTS

MAX. FRAME HEIGHT	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
143.19"	43.38" x 90.81"	G1, G2	+100.0	-100.0
	43.38" x 114.69"	G3, G4		

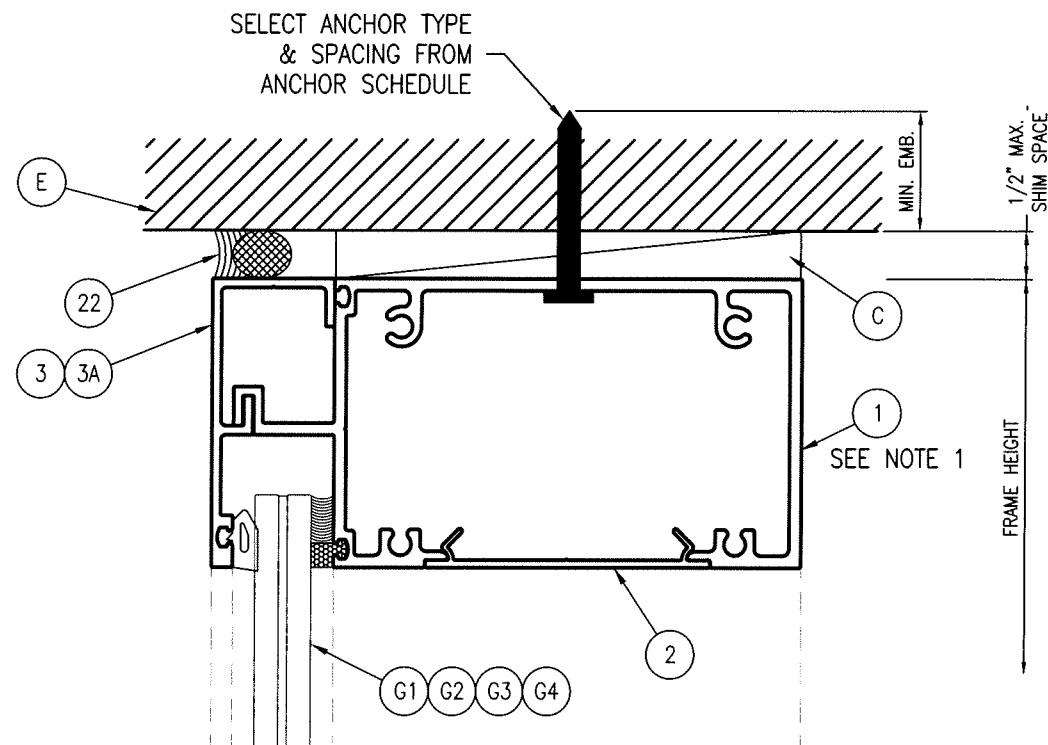
5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

PRODUCT: SUN METALS ALUMINUM WINDOW WALL

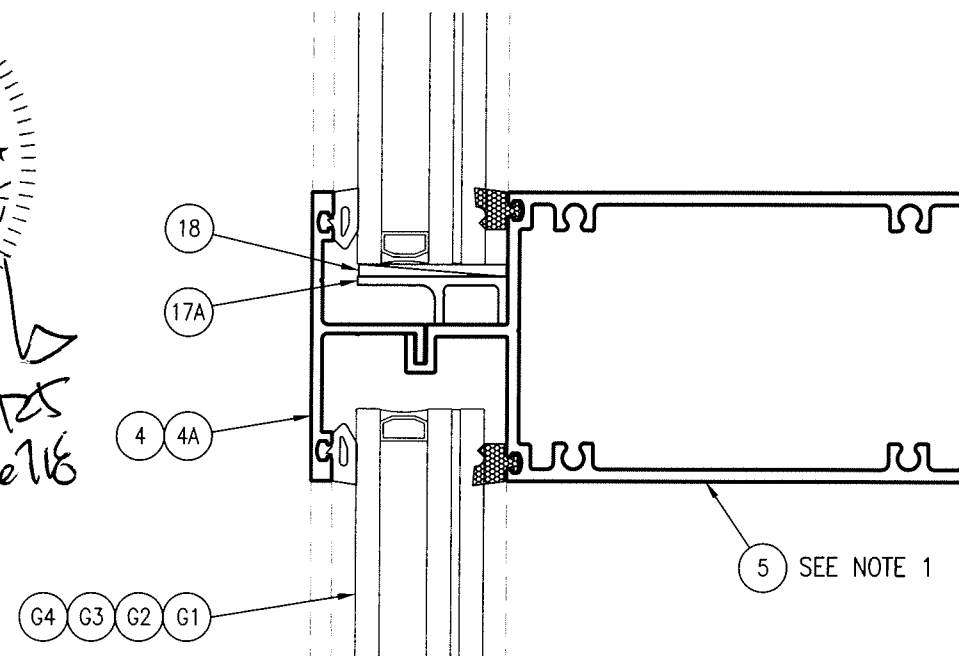
PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

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

DATE: 8/23/12
SCALE: N.T.S.
DWG. BY: CO
CHK BY: ECV
DRAWING NO.: FL-15891.10
SHEET: 1 OF 1



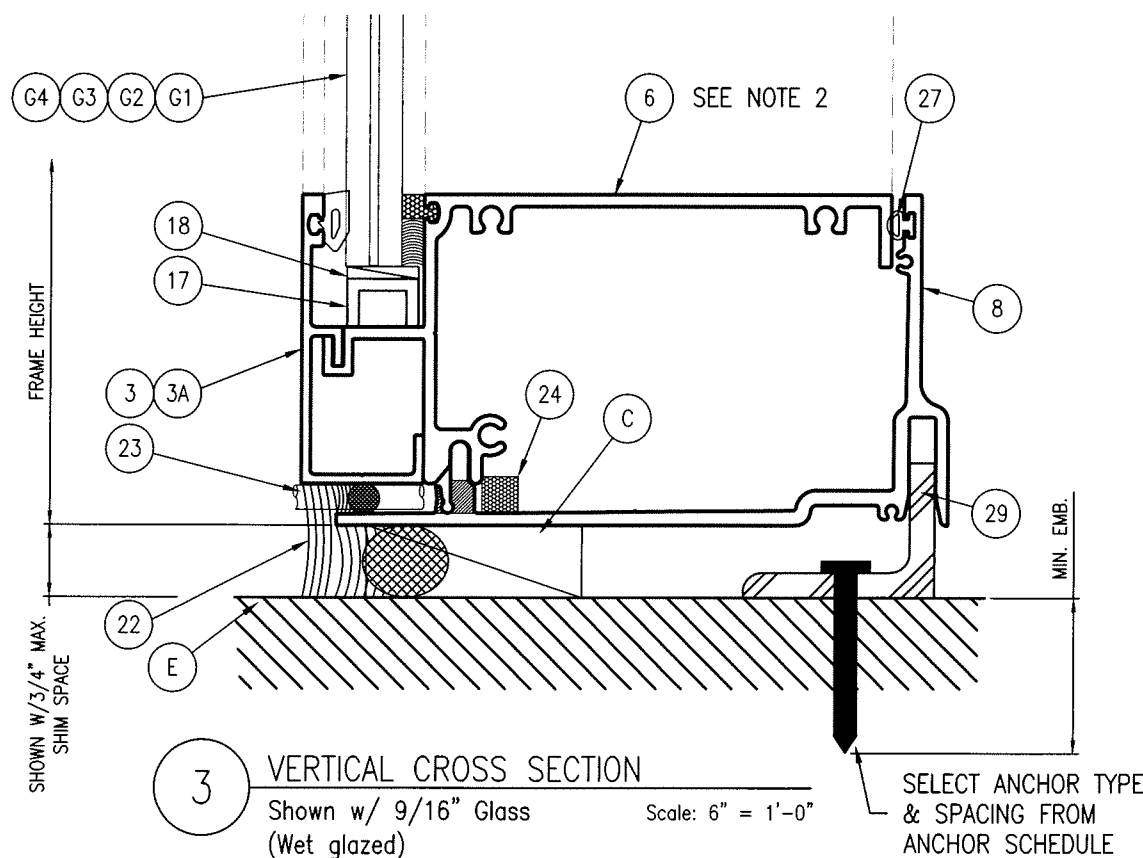
1 VERTICAL CROSS SECTION
Shown w/ 9/16" Glass Scale: 6" = 1'-0"
(Wet glazed)



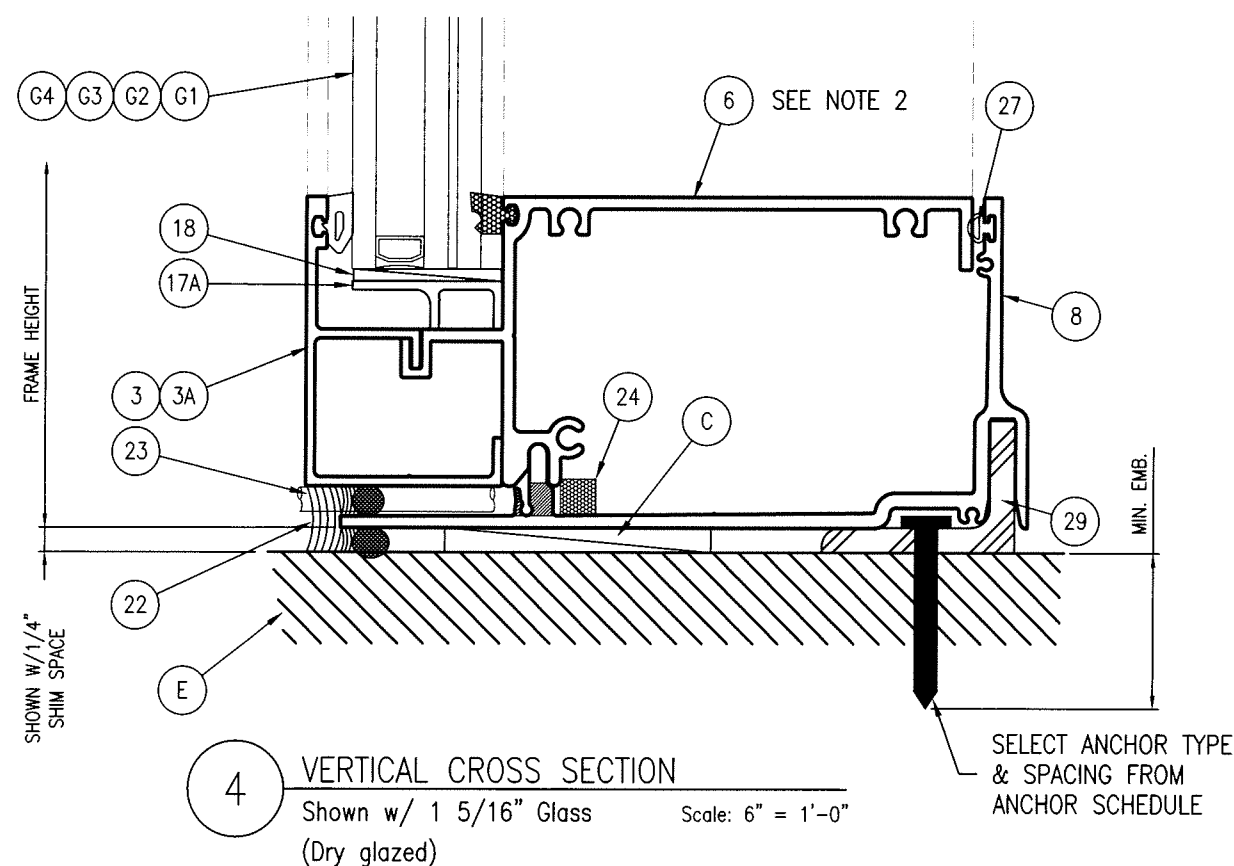
2 VERTICAL CROSS SECTION
Shown w/ 1 5/16" Glass Scale: 6" = 1'-0"
(Dry glazed)

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

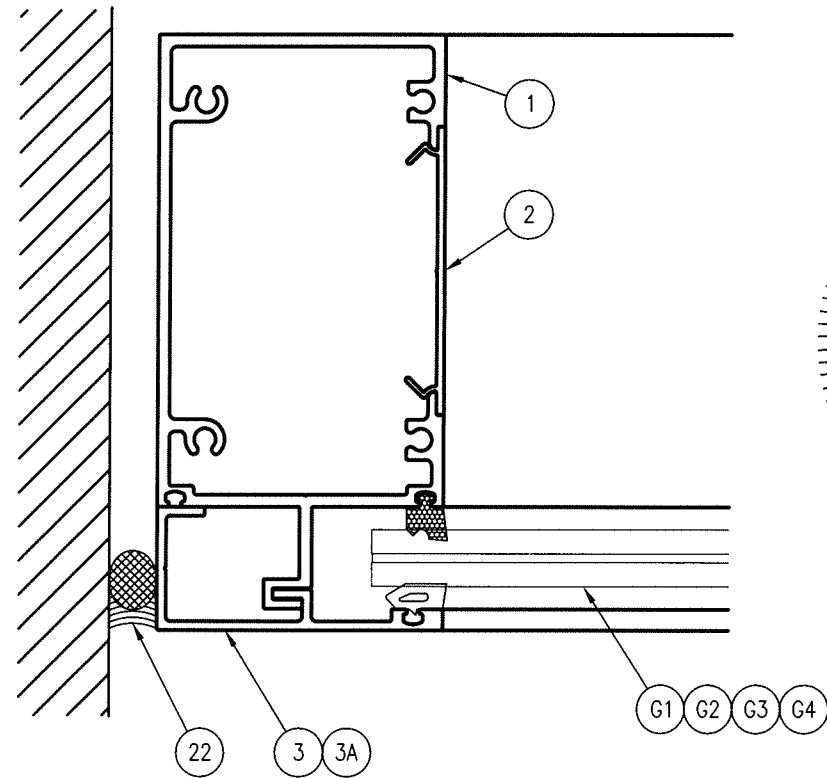


3 VERTICAL CROSS SECTION
Shown w/ 9/16" Glass Scale: 6" = 1'-0"
(Wet glazed)

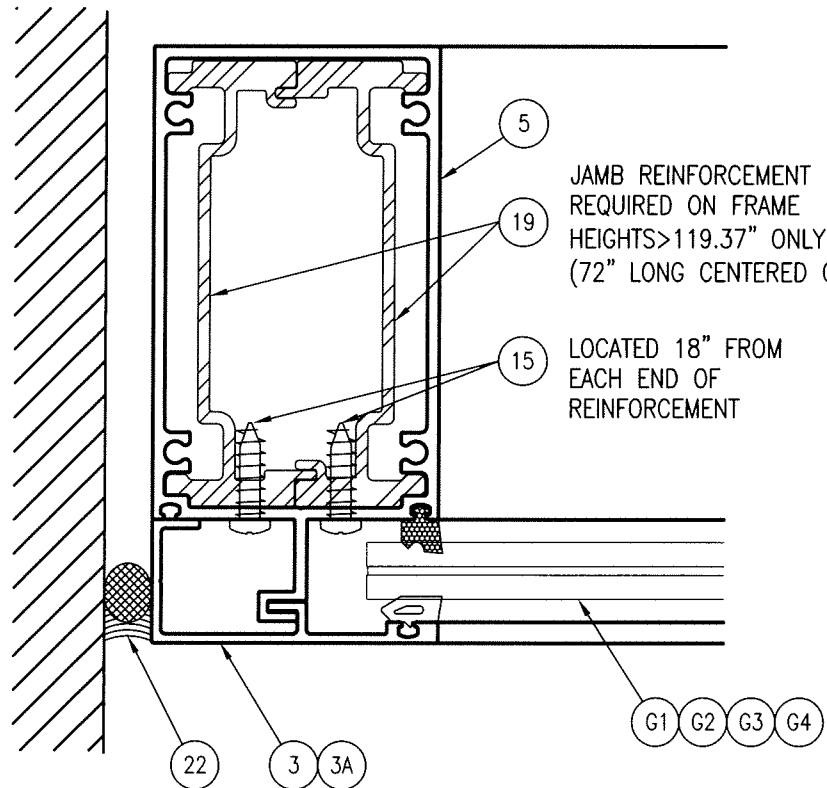


4 VERTICAL CROSS SECTION
Shown w/ 1 5/16" Glass Scale: 6" = 1'-0"
(Dry glazed)

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: VERTICAL CROSS SECTIONS	
4	7/14/25	UPDATE TO 8TH ED. (2023)	ECV
3	9/21/20	UPDATE TO 7TH ED. (2020)	JCB
2	2/01/19	UPDATE TO 6TH ED. (2017)	ECV
1	2/17/15	UPDATE TO 5TH ED. (2014)	LFS
NO	DATE	DESCRIPTION	BY
REVISIONS			
DATE: 8/23/12			
SCALE: N.T.S			
DWG. BY: CO			
CHK BY: ECV			
DRAWING NO.: FL-15891.10			
SHEET: 2 OF 1			



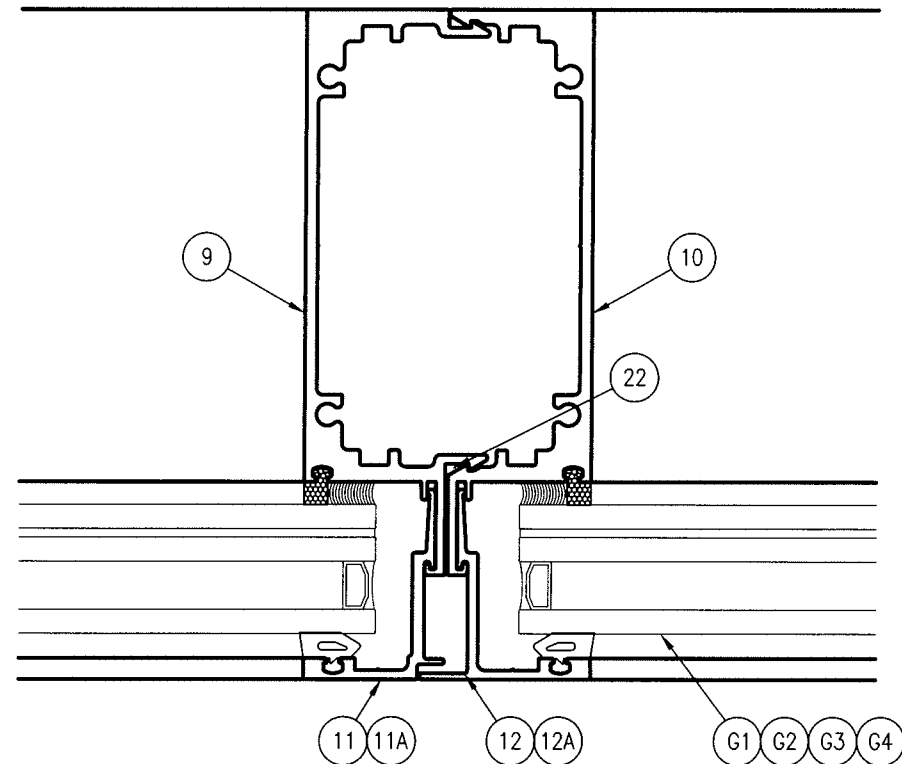
1 HORIZONTAL CROSS SECTION
Shown w/ 9/16" Glass Scale: 6" = 1'-0"
(Dry glazed)



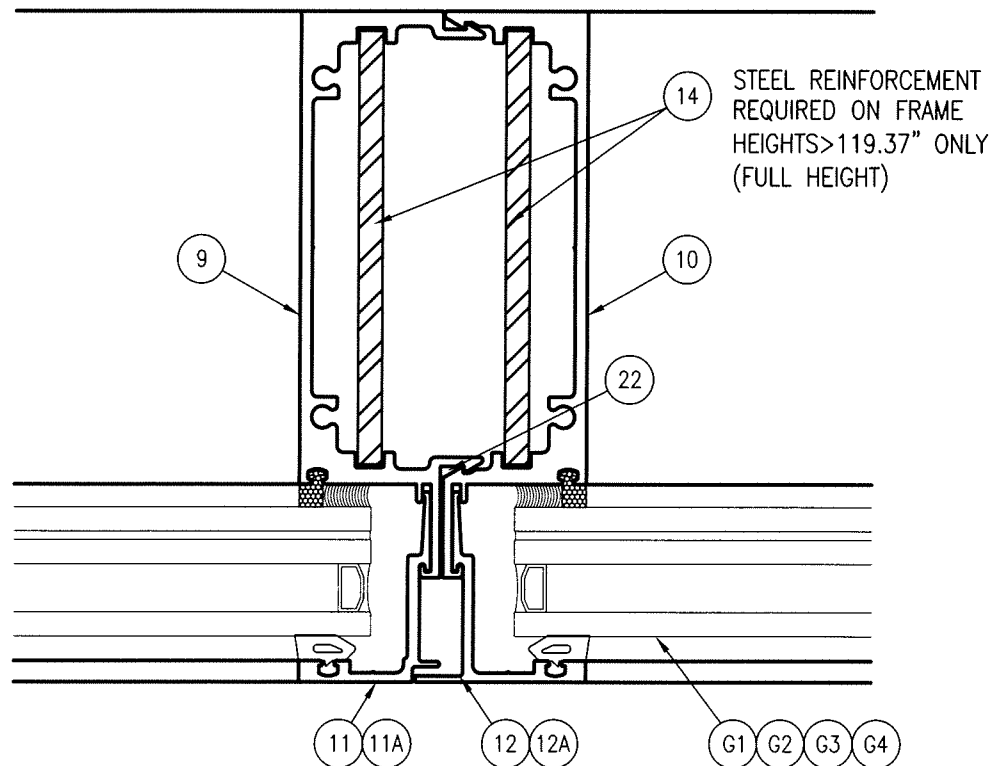
3 HORIZONTAL CROSS SECTION
Shown w/ 9/16" Glass Scale: 6" = 1'-0"
(Dry glazed)

JAMB REINFORCEMENT
REQUIRED ON FRAME
HEIGHTS > 119.37" ONLY
(72" LONG CENTERED ON JAMB)

LOCATED 18" FROM
EACH END OF
REINFORCEMENT



2 HORIZONTAL CROSS SECTION
Shown w/ 1 5/16" Glass Scale: 6" = 1'-0"
(Wet glazed)



4 HORIZONTAL CROSS SECTION
Shown w/ 1 5/16" Glass Scale: 6" = 1'-0"
(Wet glazed)



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

PRODUCT:
SUN METALS
ALUMINUM WINDOW WALL

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO	DATE	DESCRIPTION	REVISIONS	
			BY	DATE
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

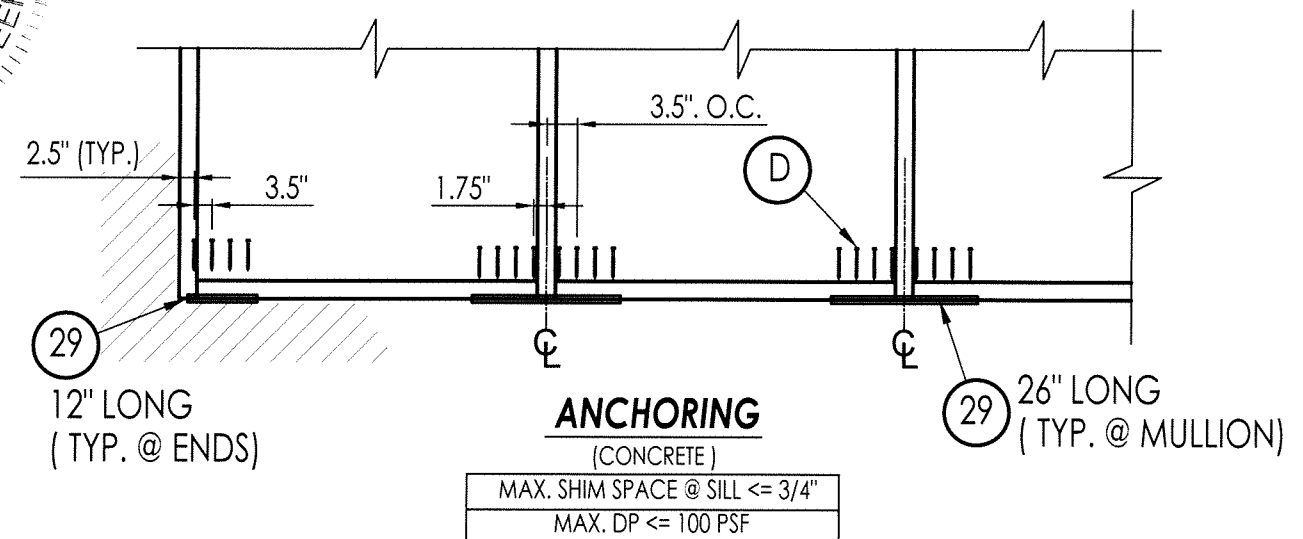
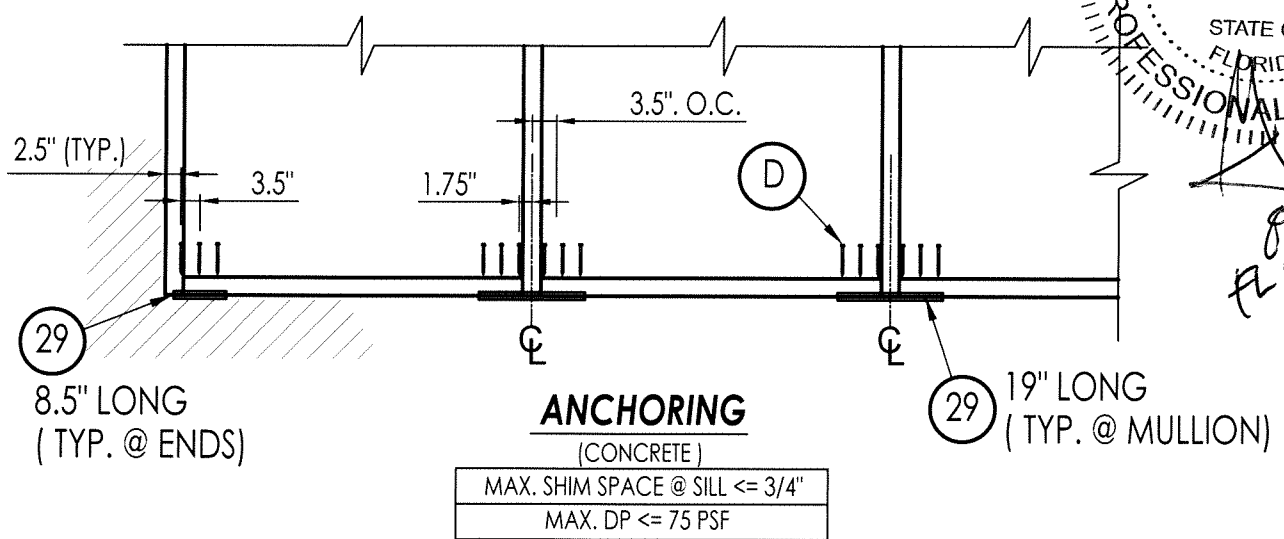
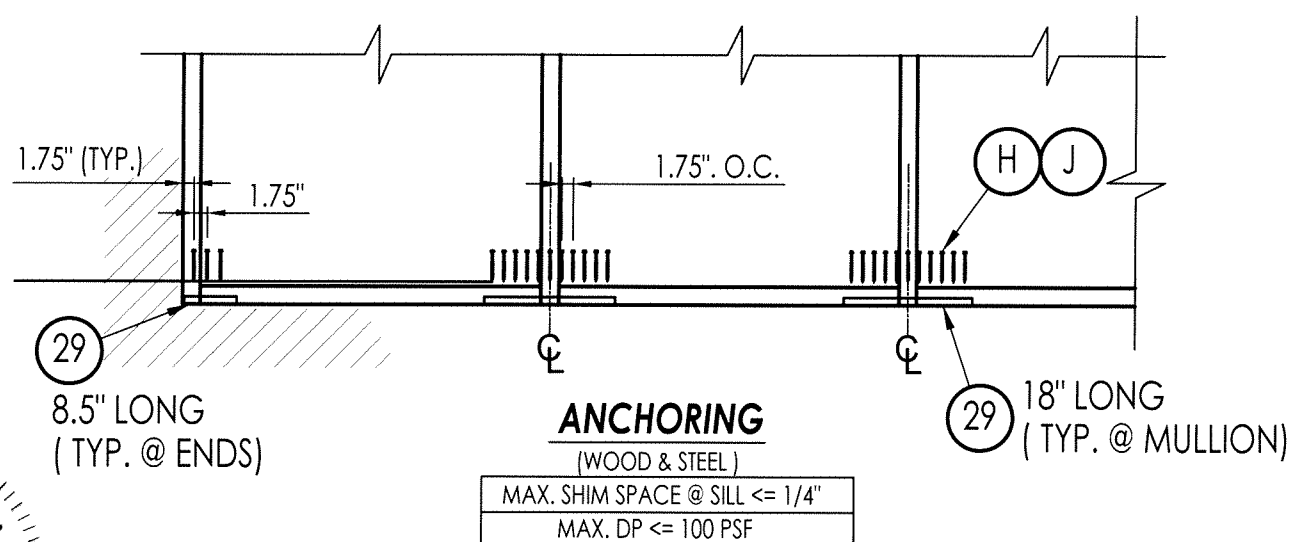
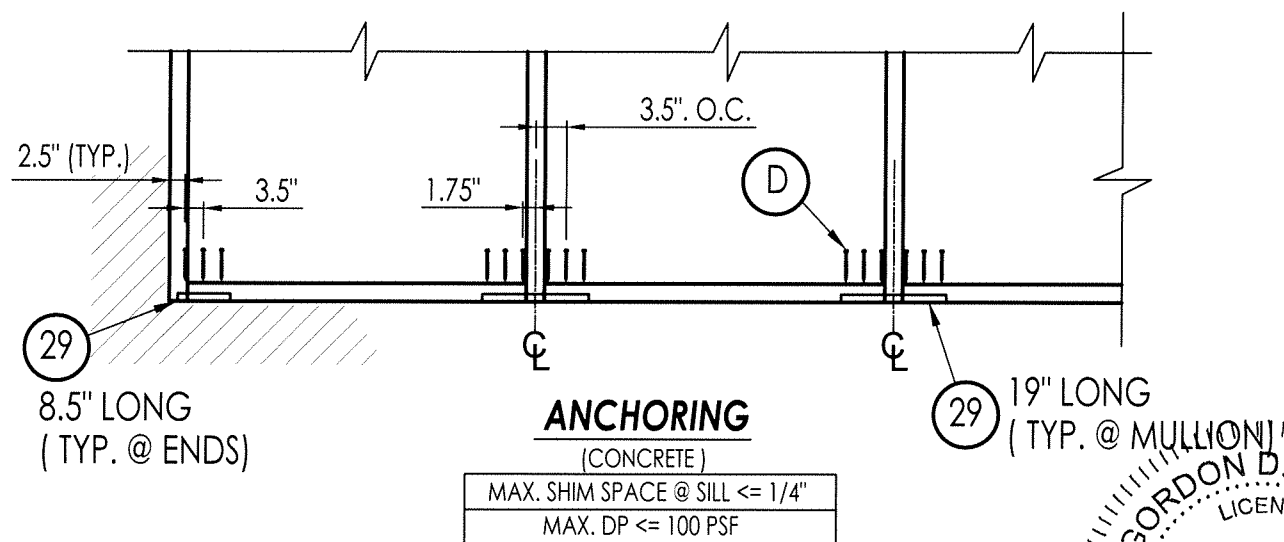
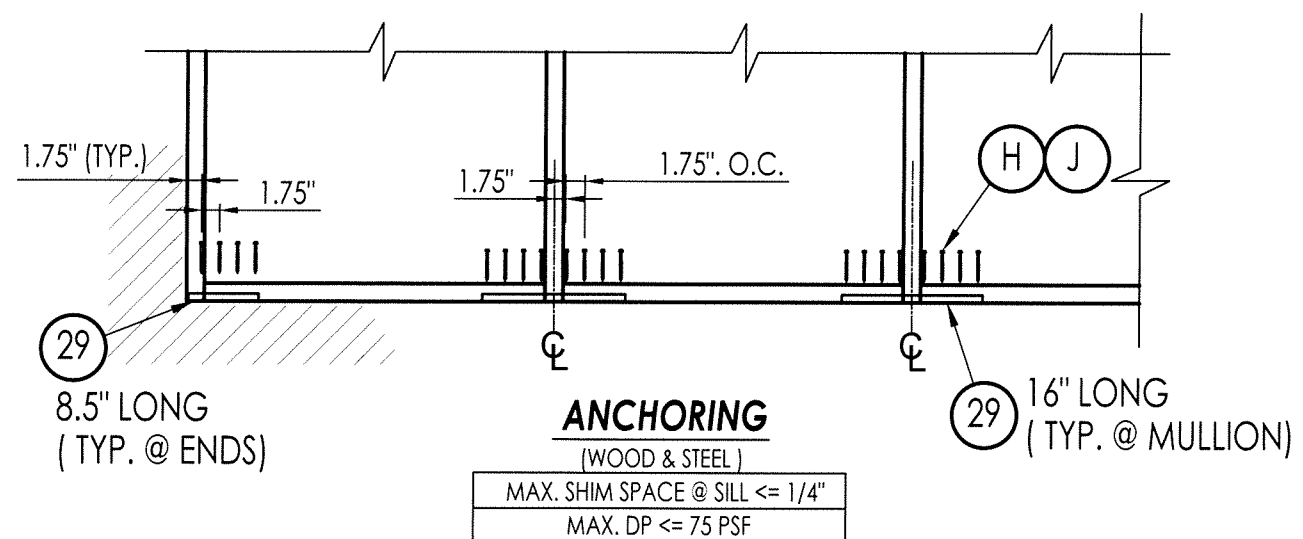
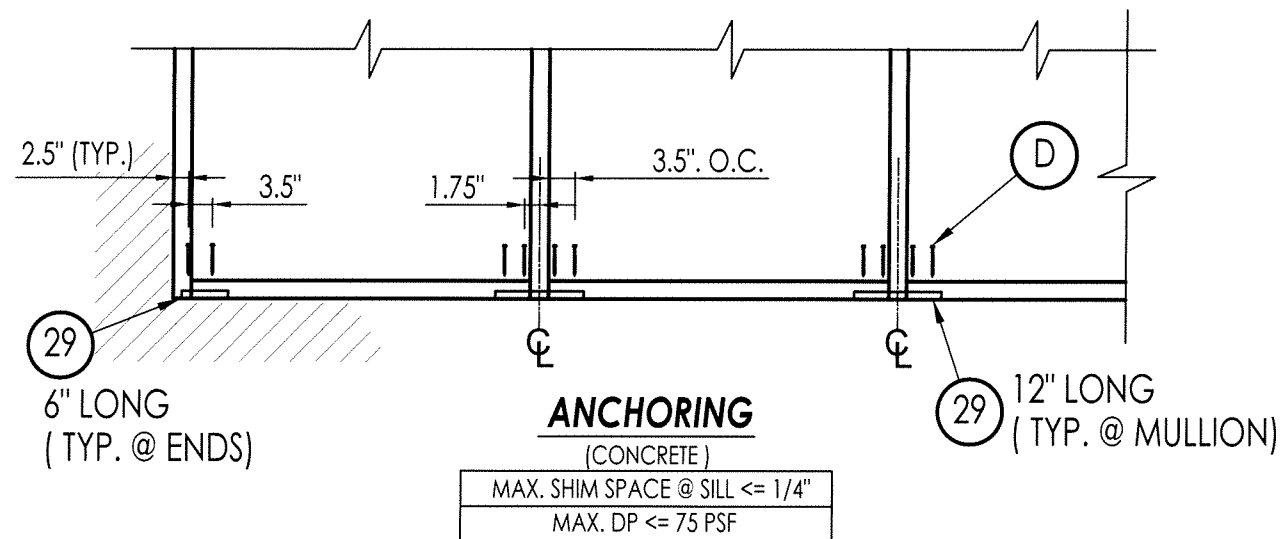
SCALE: N.T.S

DWG. BY: CO

CHK BY: ECV

DRAWING NO.:
FL-15891.10

SHEET: **3** OF **7**



GORDON D. THOMAS
LICENSE
No. 46718
★
STATE OF FLORIDA
★
PROFESSIONAL ENGINEER
8/16/25
FL 46718

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

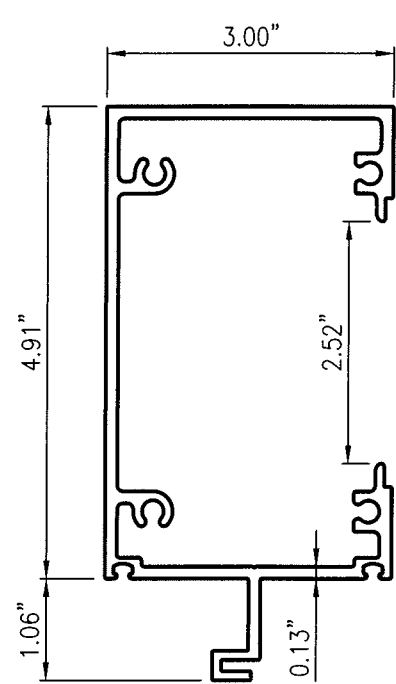
SCALE: N.T.S

DWG. BY: CO

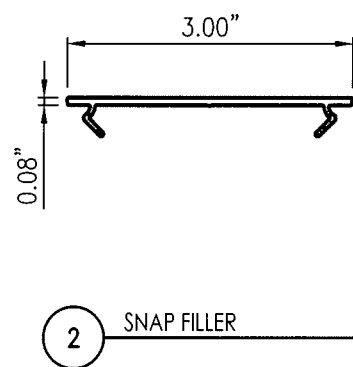
CHK BY: ECV

DRAWING NO.:
FL-15891.10

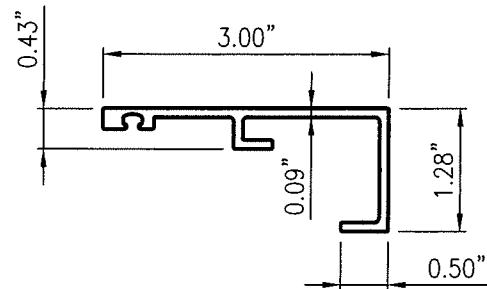
SHEET: **5** OF **7**



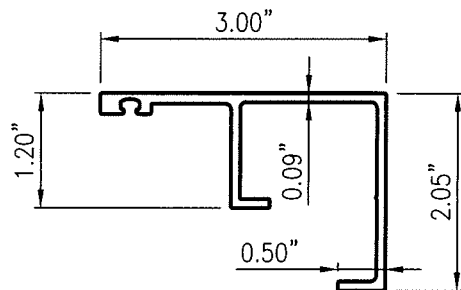
1 FRAME JAMB/ HEAD



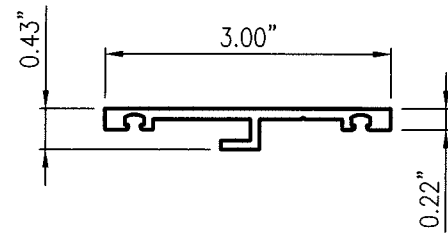
2 SNAP FILLER



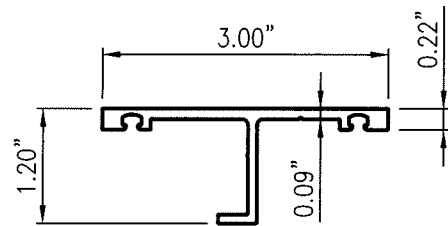
3 FACE CAP
Head/ jamb



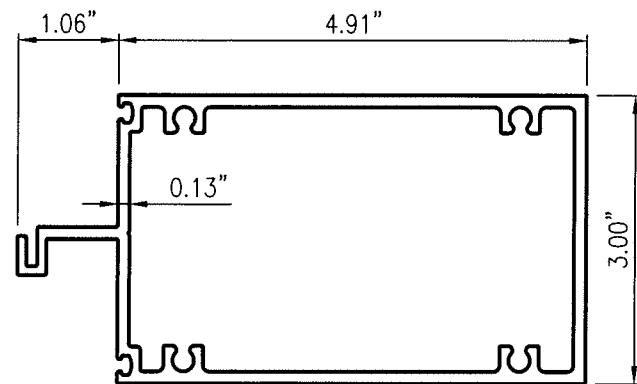
3A FACE CAP
Head/ jamb



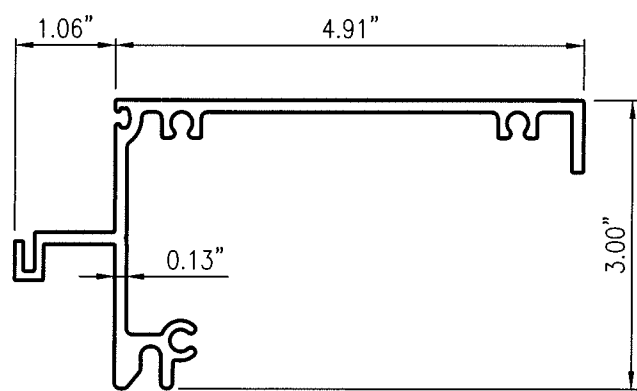
4 FACE CAP
Rail



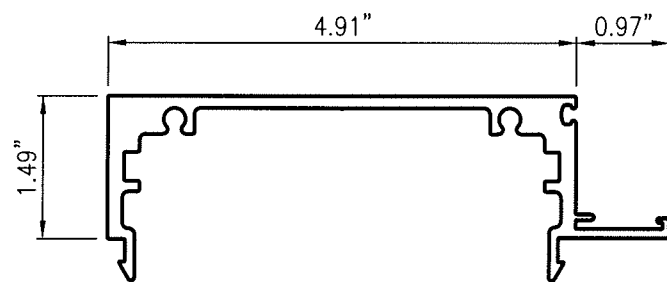
4A FACE CAP
Rail



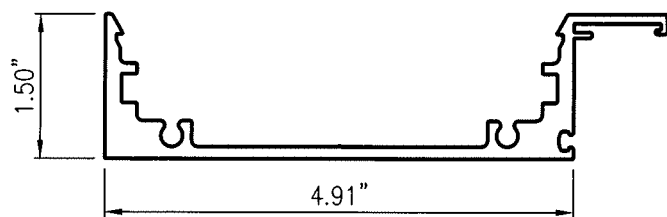
5 HORIZONTAL/ JAMB



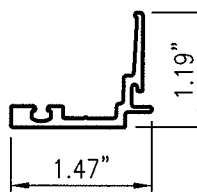
6 SILL



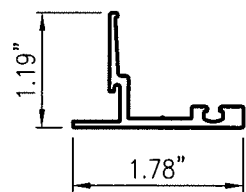
9 MALE MULLION



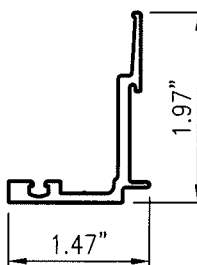
10 FEMALE MULLION



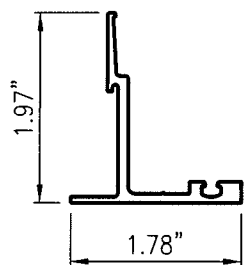
11 SPLIT MULLION CAP



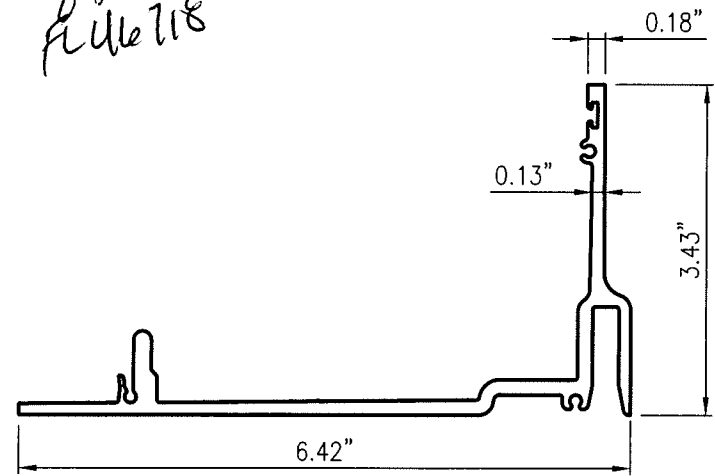
12 SPLIT MULLION CAP



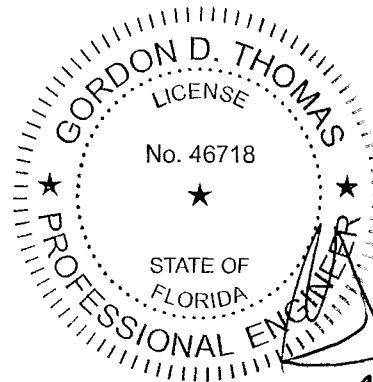
11A SPLIT MULLION CAP



12A SPLIT MULLION CAP



8 STARTER SILL



8/23/12
46718

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

NO	DATE	DESCRIPTION	BY	
			NO	DATE
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

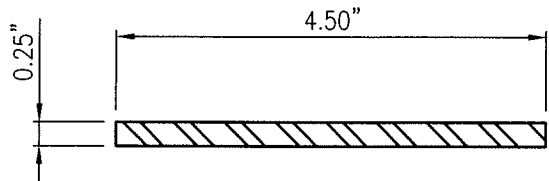
CHK BY: ECV

DRAWING NO.:
FL-15891.10

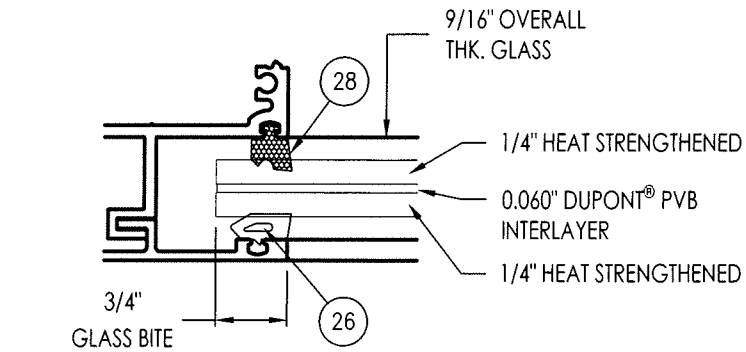
SHEET: **6** OF **7**

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" ITW TAPCON XL CONC. 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-613)	ALUMINUM
2	SNAP FILLER (SUN-602)	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-605)	ALUMINUM
6	SILL (SUN-606)	ALUMINUM
8	STARTER SILL (SUN-653)	ALUMINUM
9	MALE SPLIT MULLION (SUN-609)	ALUMINUM
10	FEMALE SPLIT MULLION (SUN-610)	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
13	ANCHOR PER SCHEDULE	-
14	REINFORCEMENT STEEL BAR (1/4" x 4-1/2" 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
17A	SETTING CHAIR (SUN-435)	ALUMINUM
18	1/8" SETTING BLOCK	EPDM
19	JAMB REINFORCEMENT	ALUMINUM
20	SEAM SEALANT	-
21	PROGLAZE II (TREMCO OR EQUAL)	SILICONE
22	PERIMETER SILICONE SEALANT	SILICONE
23	WEEP STRAW	-
24	WEEP BAFFLE	-
25	EXTRUDED 70 DURO. EPDM STOP GASKET (TR-10681E)	EPDM
26	EXTRUDED 70 DURO. EPDM WEDGE GASKET (TR-11419)	EPDM
27	EXTRUDED 60 DURO. EPDM BULB GASKET (TR-5783E)	EPDM
28	NEOPRENE SPONGE (TREMCO)	NEOPRENE
29	SILL ANCHOR BRACKET	ALUMINUM

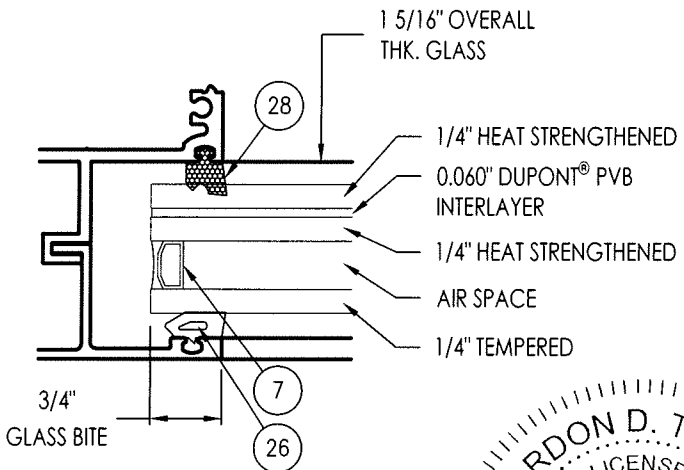
NOTE: ALL FRAME ALUMINUM IS 6063-T6



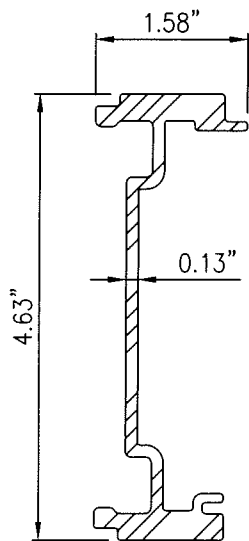
14 REINFORCEMENT BAR
Full frame height



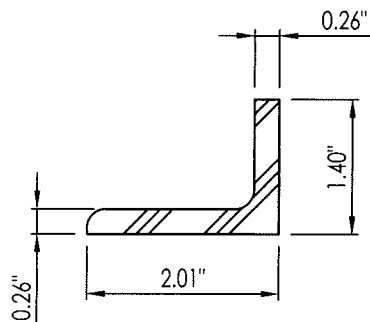
G1 GLAZING DETAIL
Dry glazed



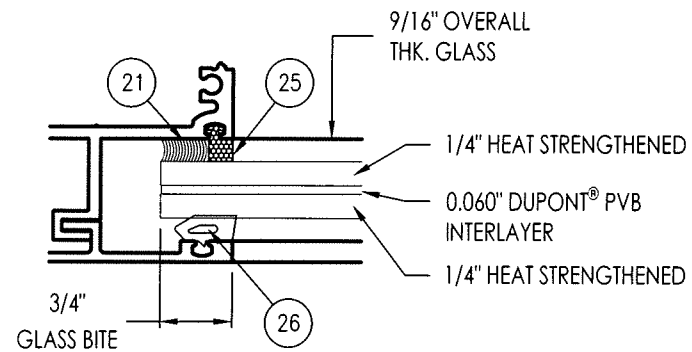
G2 GLAZING DETAIL
Dry glazed



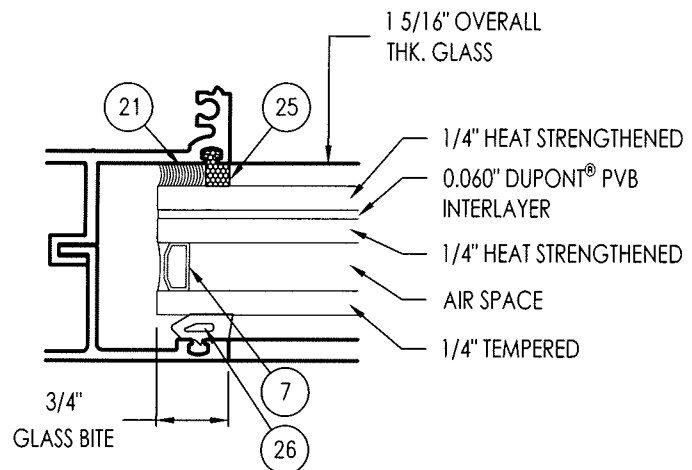
19 JAMB REINFORCEMENT
72" Long



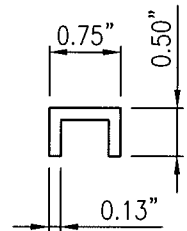
29 SILL ANCHOR BRACKET
(ANCHOR BRACKET LENGTH VARIES)



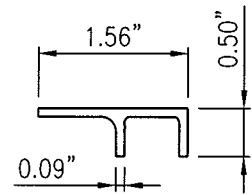
G3 GLAZING DETAIL
Interior side wet glazed



G4 GLAZING DETAIL
Interior side wet glazed



17 SETTING CHAIR



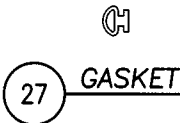
17A SETTING CHAIR



25 GASKET



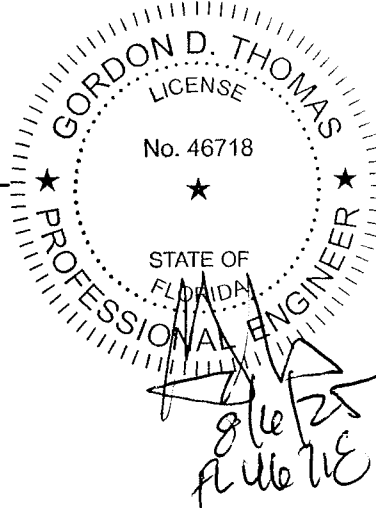
26 GASKET



27 GASKET



28 GASKET



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

PRODUCT:
SUN METALS
ALUMINUM WINDOW WALL

PART OR ASSEMBLY:
BILL OF MATERIALS
GLAZING DETAILS & COMPONENTS

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

DATE: 8/23/12

SCALE: N.T.S

DWG. BY: CO

CHK BY: ECV

DRAWING NO.:
FL-15891.10

SHEET: 1 OF 1