

SERIES 650T

ALUMINUM FIXED WINDOW WALL

THERMALLY BROKEN

"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.

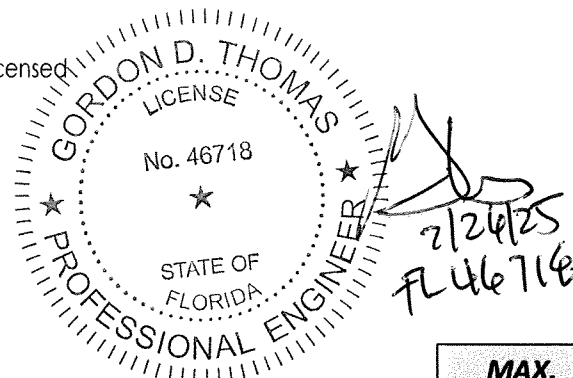
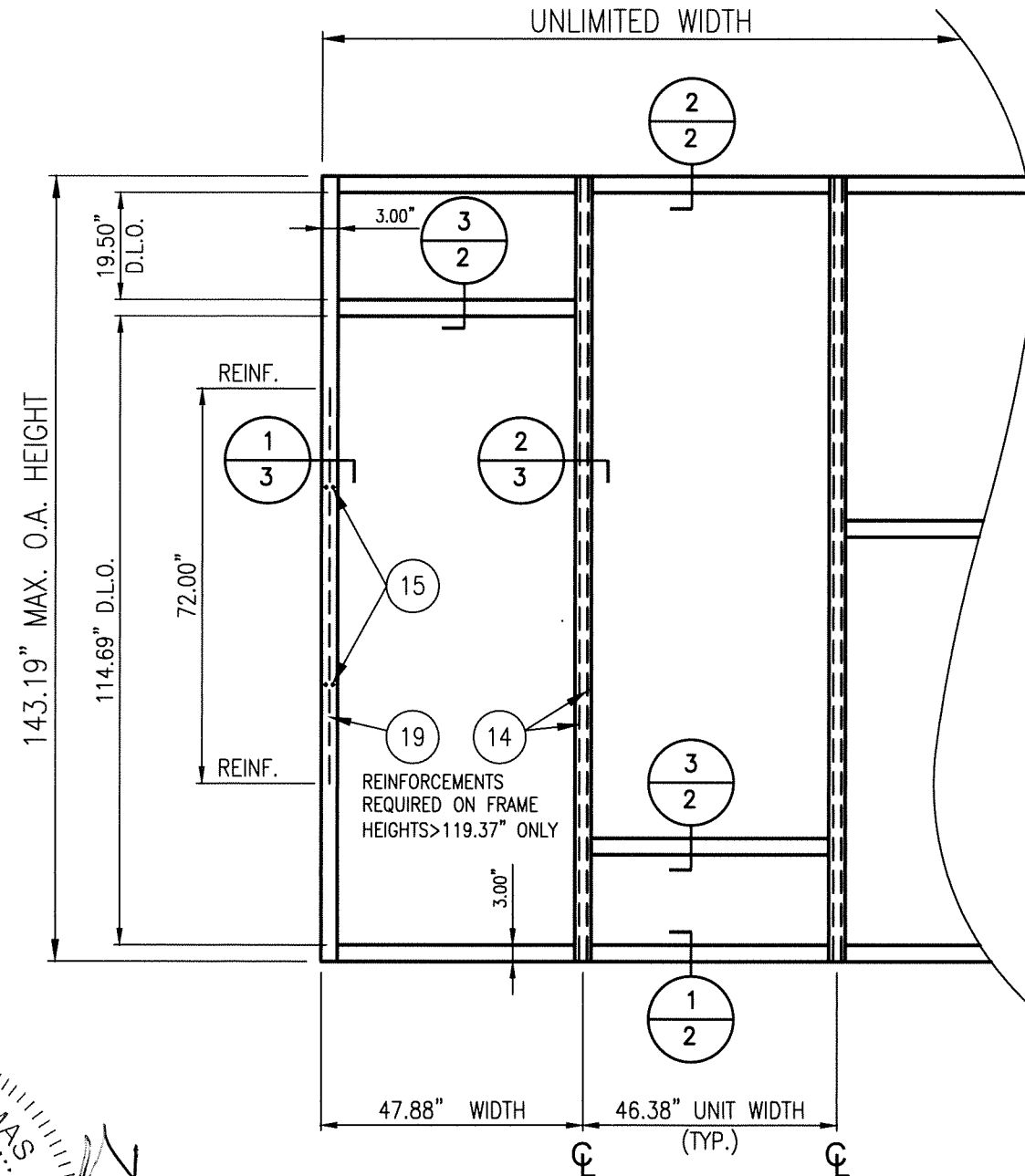


TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS, DESIGN PRESSURES AND GENERAL NOTES
2	VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTIONS
4	HEAD ANCHORING ELEVATIONS & ANCHORING SCHEDULE
5	SILL ANCHORING ELEVATIONS
6	COMPONENTS
7	BILL OF MATERIAL, GLAZING DETAILS AND COMPONENTS

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

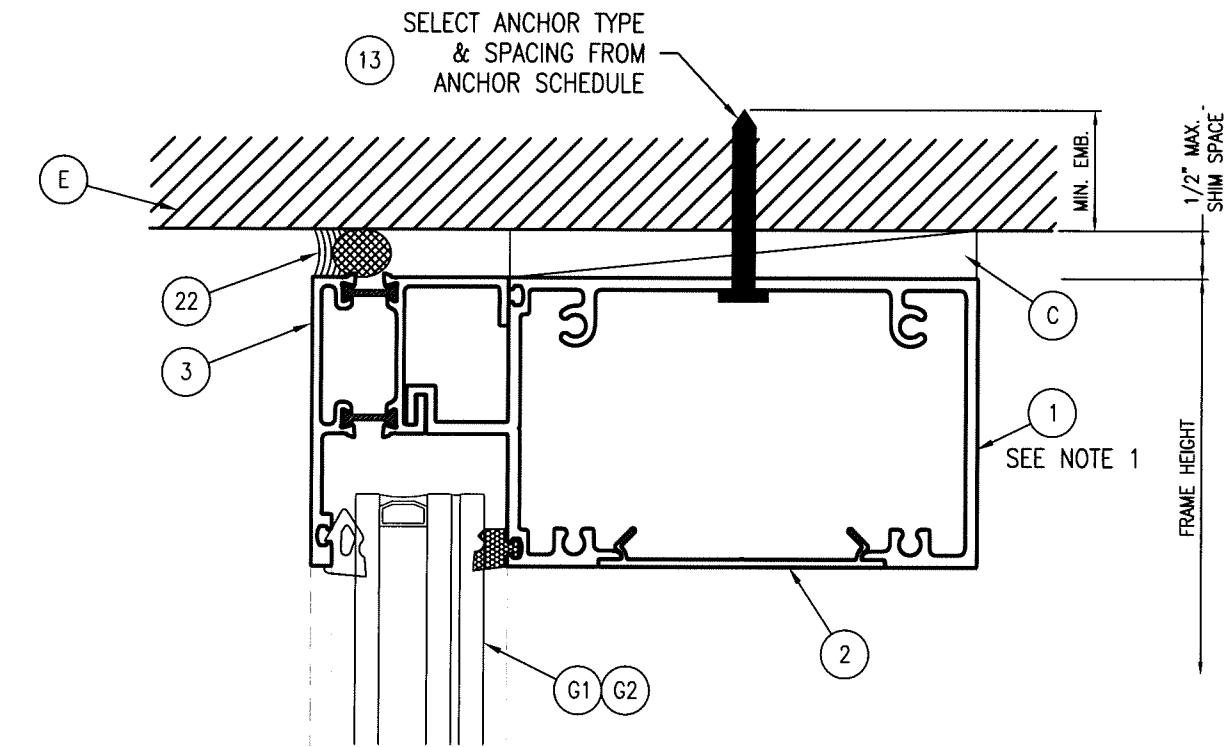
5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

PRODUCT:
SUN METALS 650T
ALUMINUM WINDOW WALL

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

NO	DATE	DESCRIPTION	BY
1	7/14/25	UPDATE TO 2023 FBC	ECV

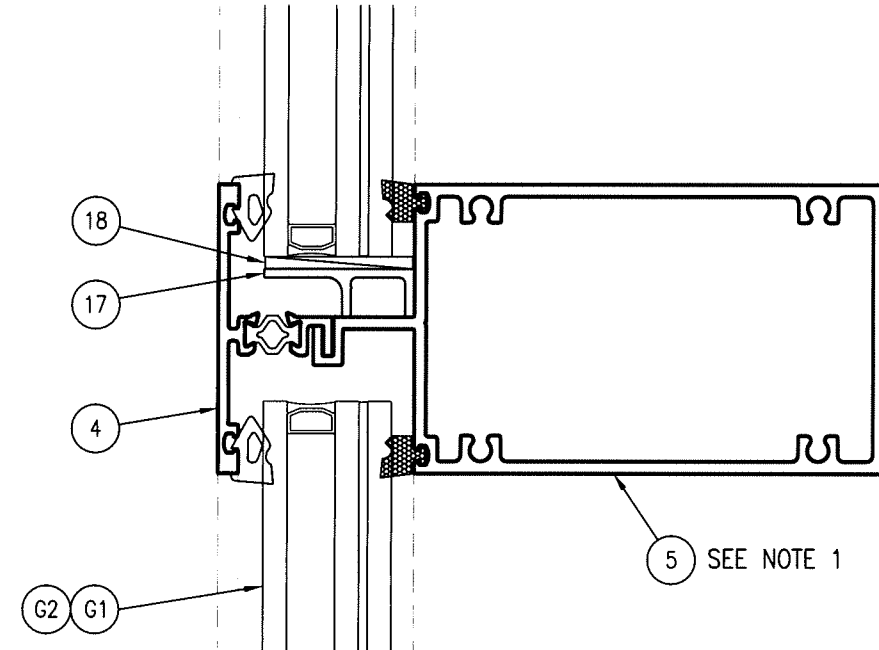
DATE: 3/6/23
SCALE: N.T.S
DWG. BY: ECV
CHK BY: -
DRAWING NO.:
FL-41967.4
SHEET: 1 OF 1



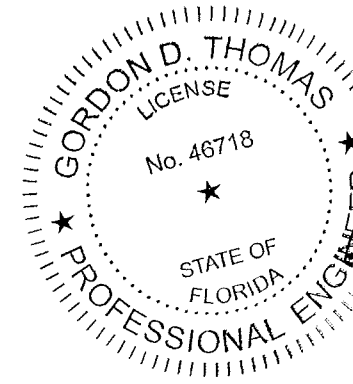
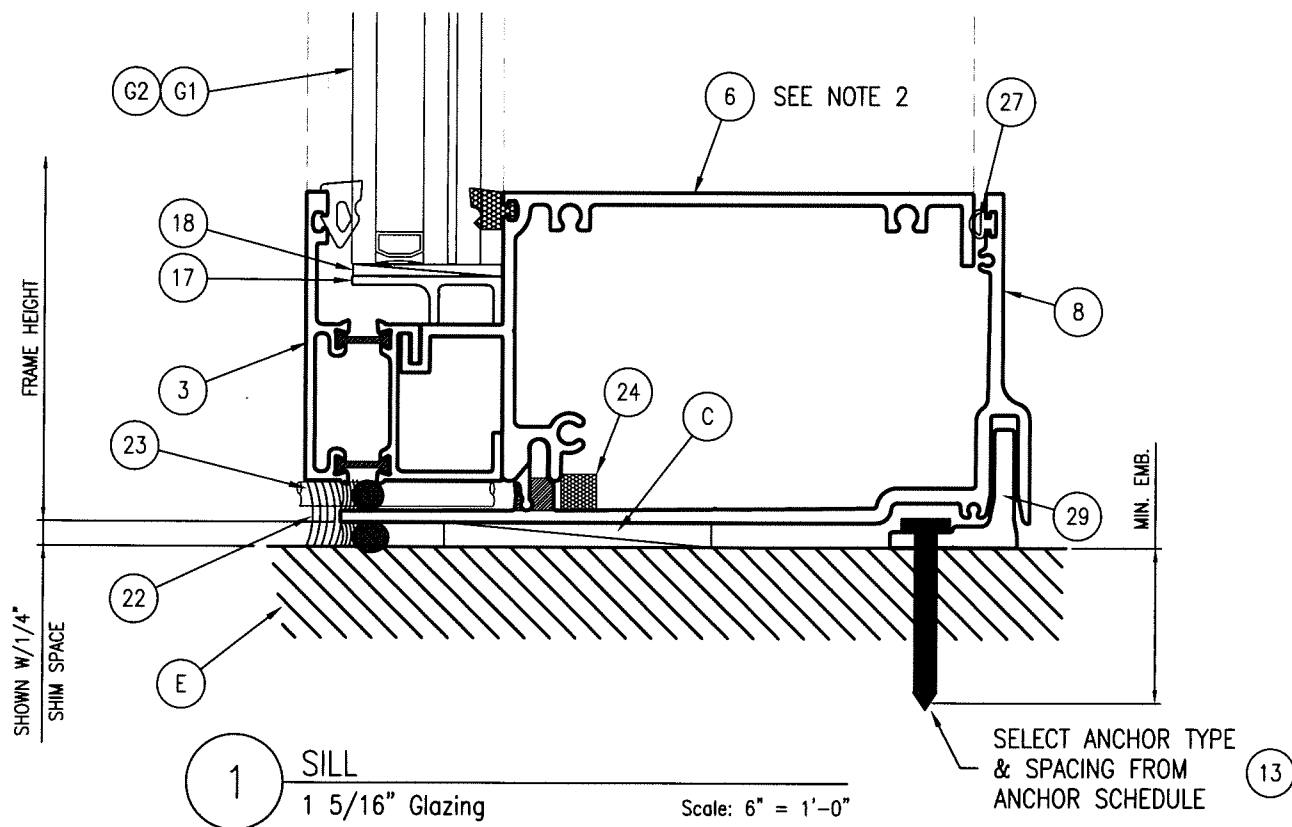
2 HEAD
1 5/16" Glazing
Scale: 6" = 1'-0"

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



3 HORIZONTAL
1 5/16" Glazing
Scale: 6" = 1'-0"



7/26/25
FL 46718

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



PRODUCT:
SUN METALS 650T
ALUMINUM WINDOW WALL

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO	DATE	DESCRIPTION	BY
1	7/14/25	UPDATE TO 2023 FBC	ECV

DATE: 3/6/23

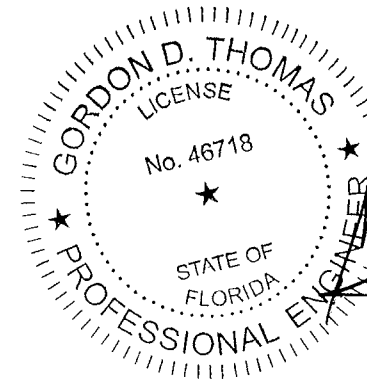
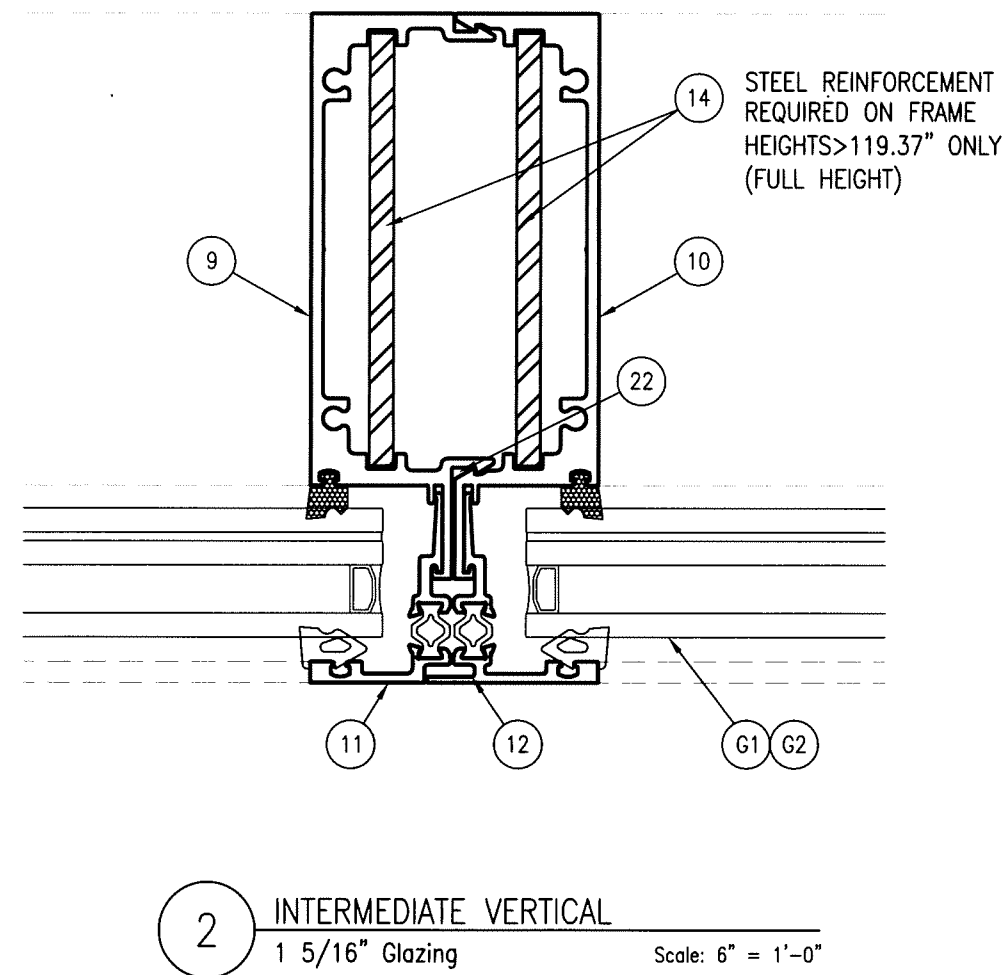
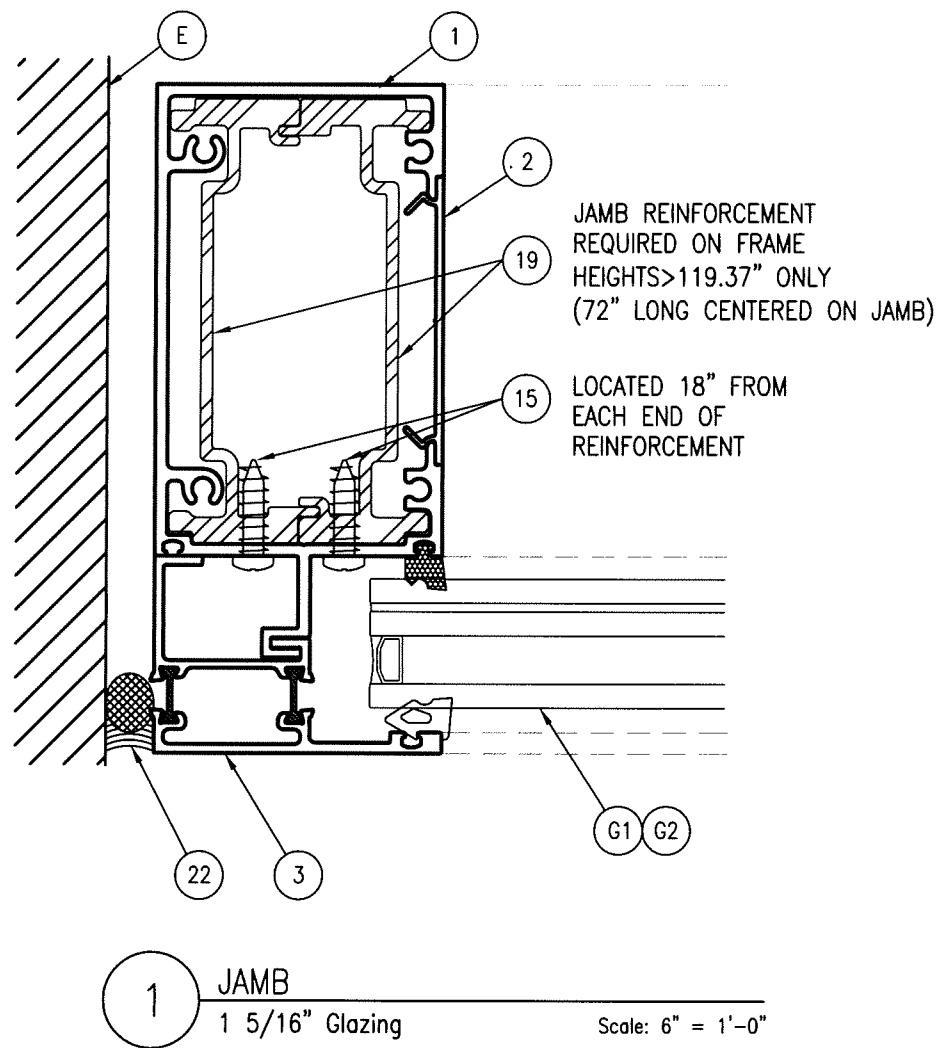
SCALE: N.T.S

DWG. BY: ECV

CHK BY: -

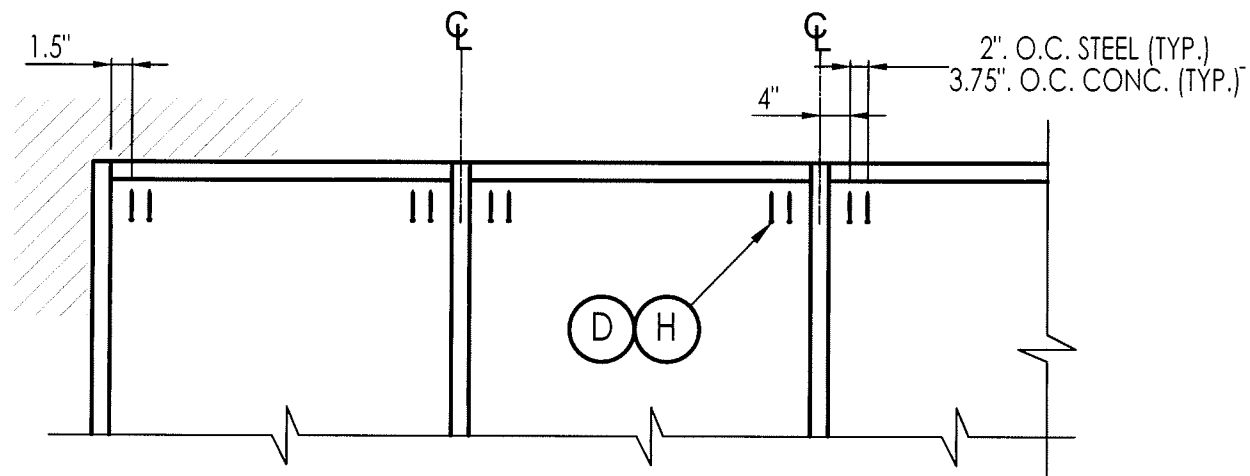
DRAWING NO.:
FL-41967.4

SHEET: 2 OF 7



7/26/25
FL 46718

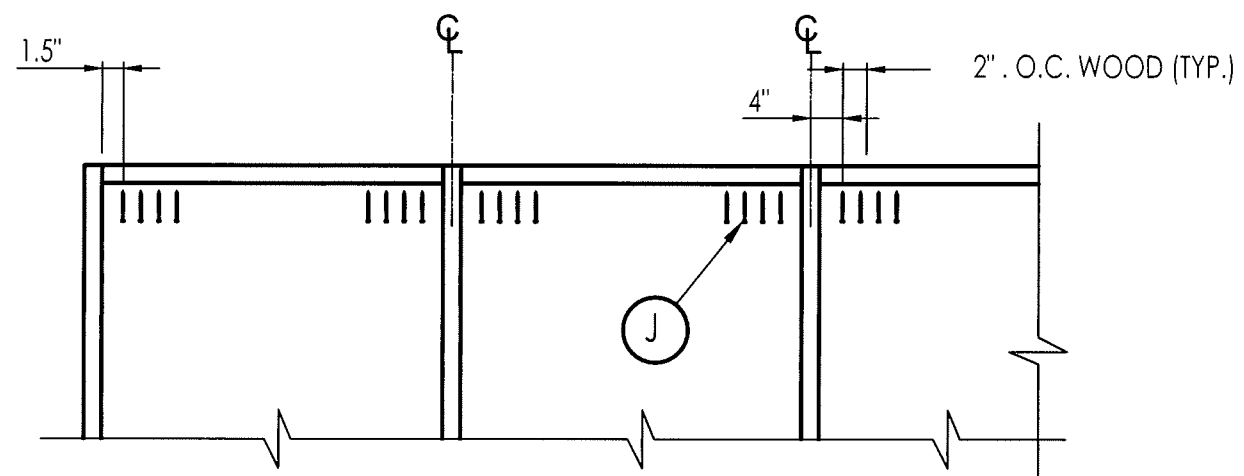
5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666	
PRODUCT: SUN METALS 650T ALUMINUM WINDOW WALL	PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS
DATE: 3/6/23 SCALE: N.T.S. DWG. BY: ECV CHK BY: - DRAWING NO.: FL-41967.4	SHEET: 3 OF 1



ANCHORING

(CONCRETE & STEEL)

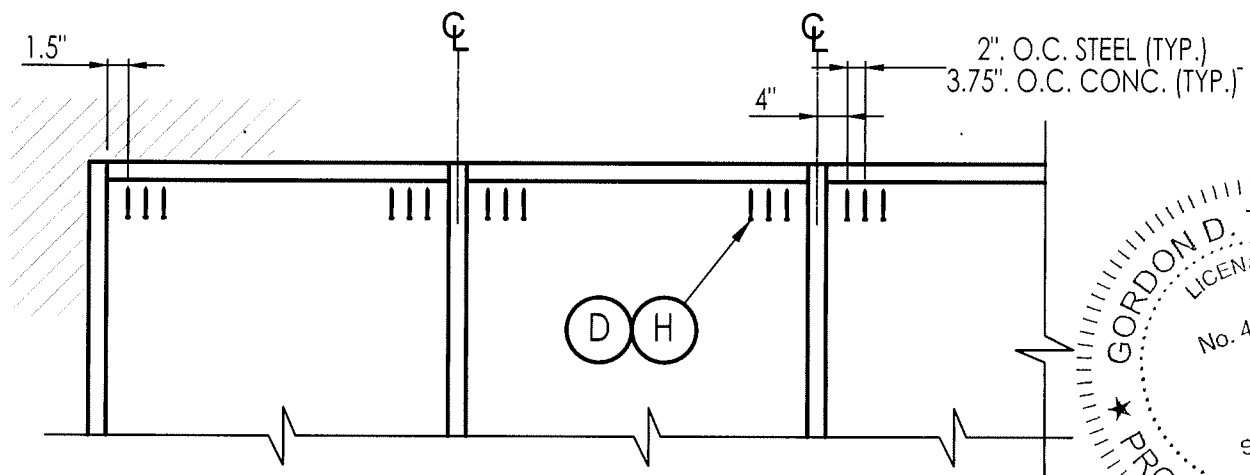
MAX. SHIM SPACE @ HEAD $\leq 1/4"$
MAX. DP ≤ 70 PSF



ANCHORING

(WOOD)

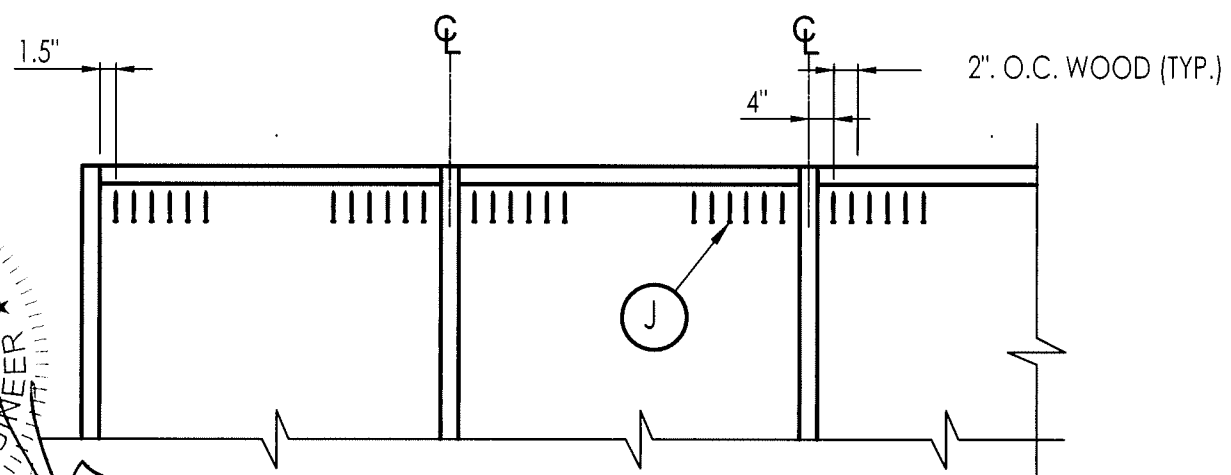
MAX. SHIM SPACE @ HEAD $\leq 1/4"$
MAX. DP ≤ 75 PSF



ANCHORING

(CONCRETE & STEEL)

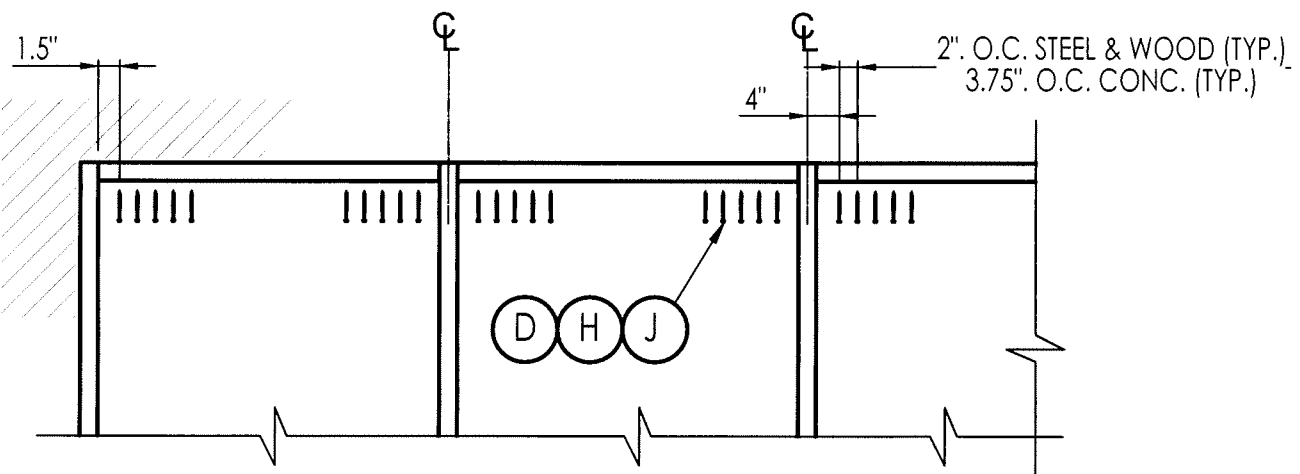
MAX. SHIM SPACE @ HEAD $\leq 1/4"$
MAX. DP @ HEAD ≤ 100 PSF



ANCHORING

(WOOD)

MAX. SHIM SPACE @ HEAD $\leq 1/4"$
MAX. DP @ HEAD ≤ 100 PSF

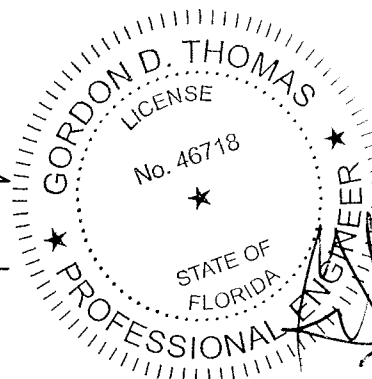


ANCHORING

(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

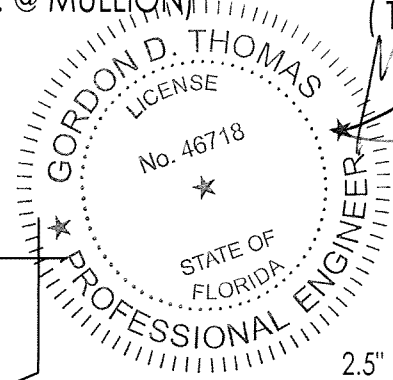
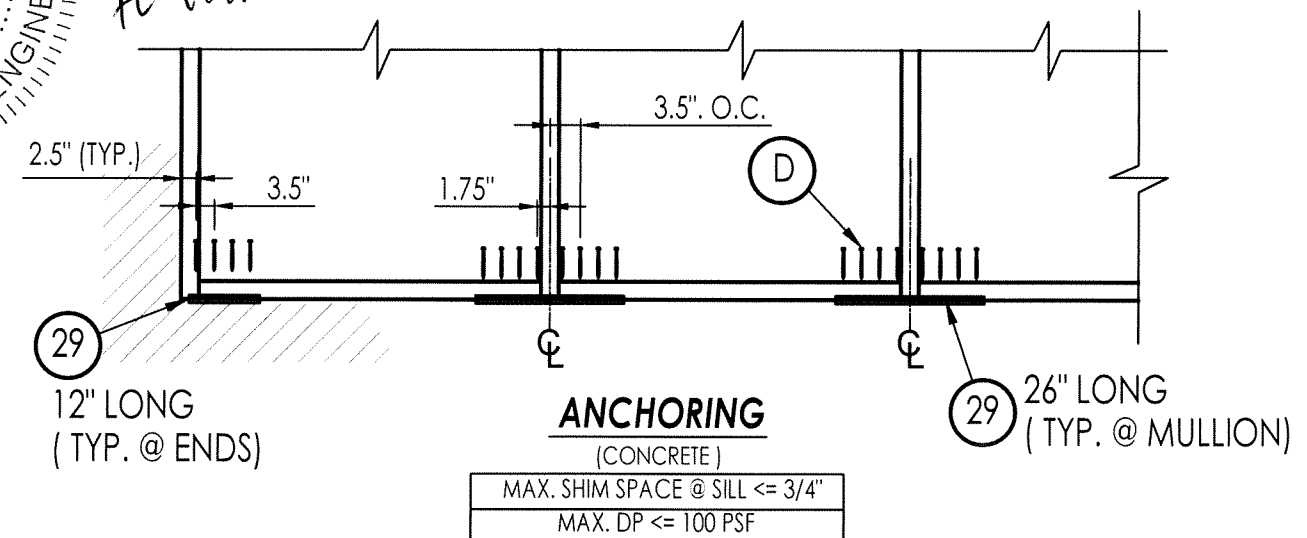
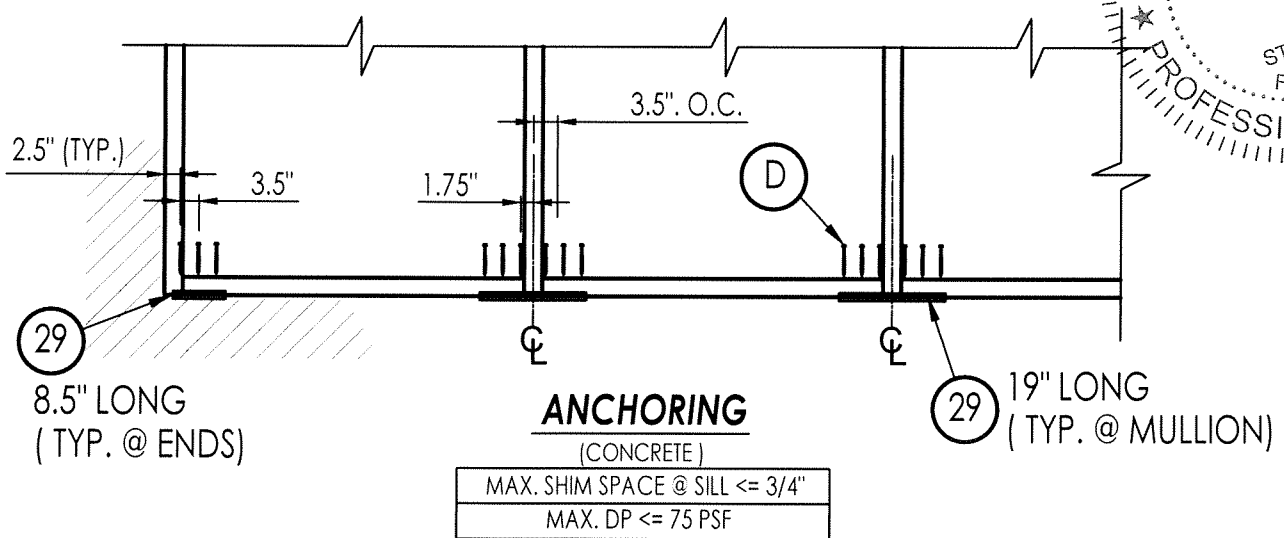
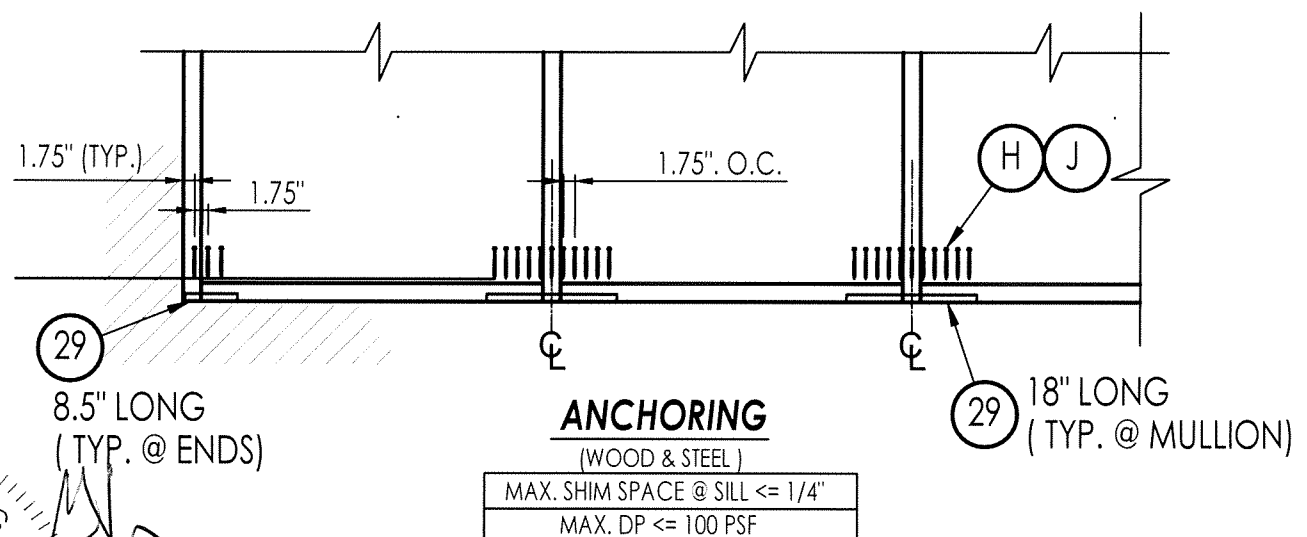
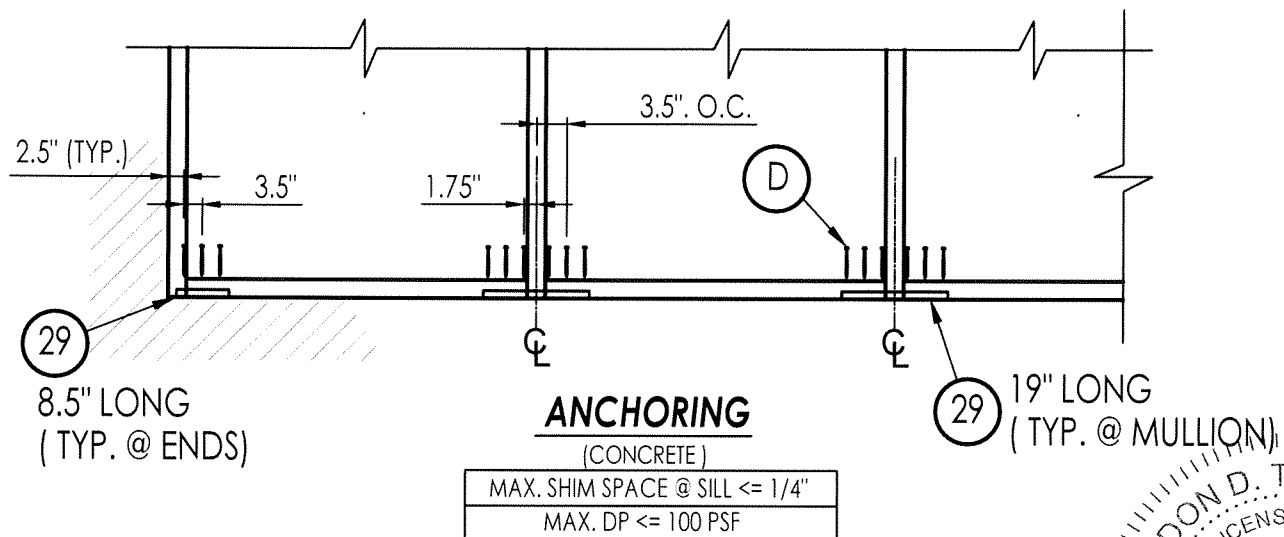
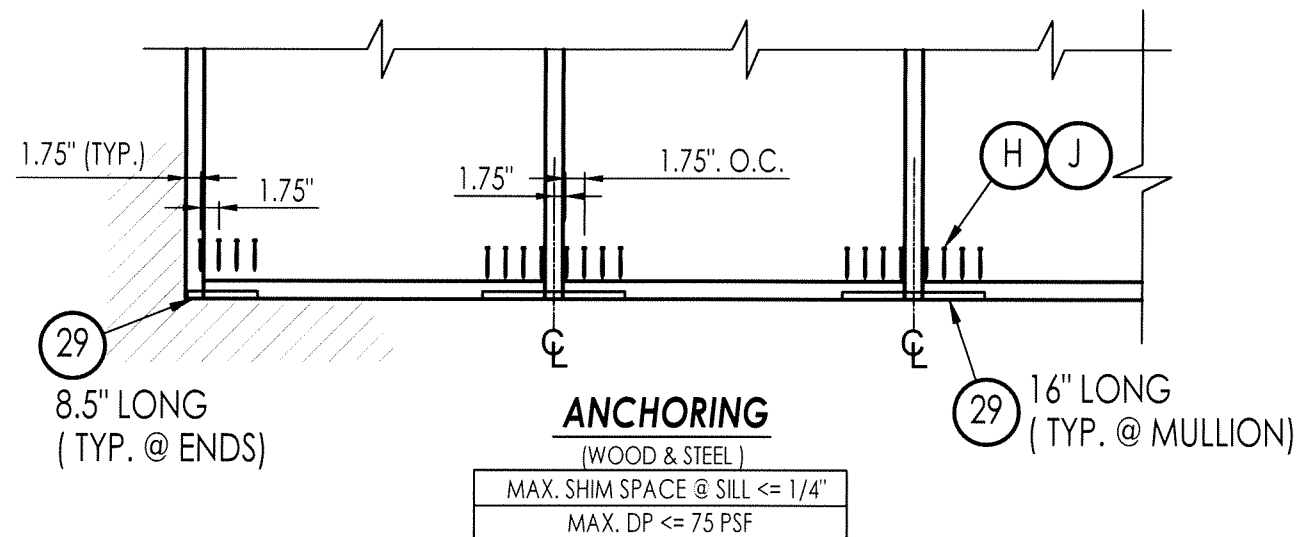
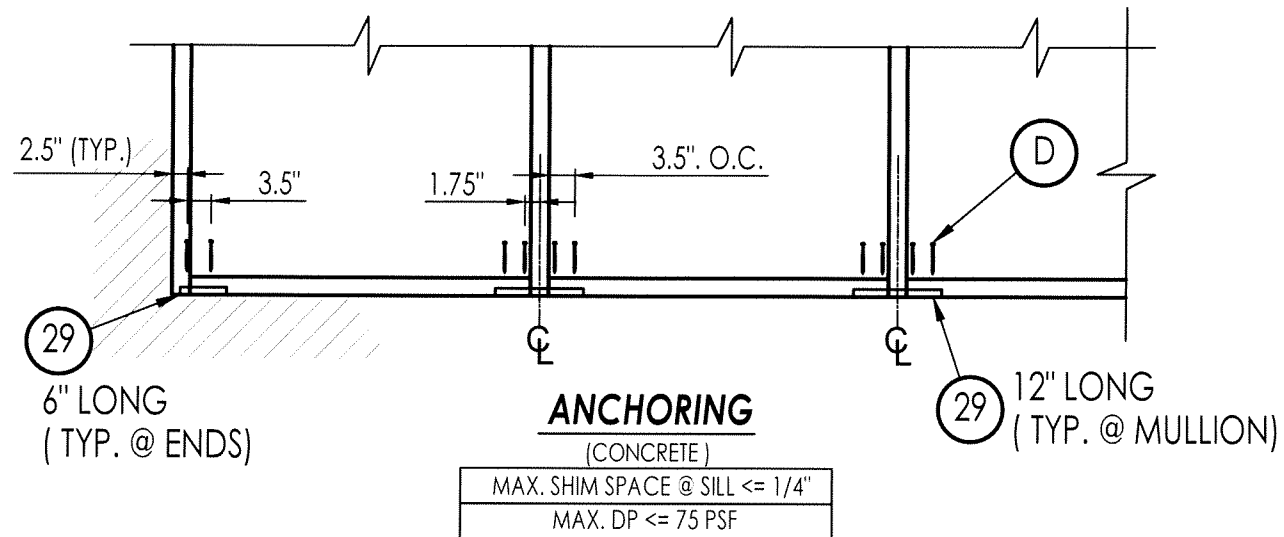


7/26/25
FL 46718

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

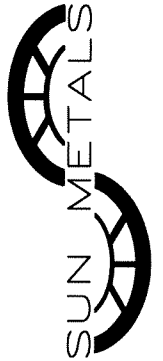


PRODUCT:		SUN METALS 650T ALUMINUM WINDOW WALL	
PART OR ASSEMBLY:		HEAD ANCHORING ELEVATIONS & ANCHORING SCHEDULE	
		NO	DATE
		7/14/25	DATE
		UPDATE TO 2023 FBC	DESCRIPTION
		ECV	BY
REVISIONS			
DATE: 3/6/23			
SCALE: N.T.S			
DWG. BY: ECV			
CHK BY: -			
DRAWING NO.: FL-41967.4			
SHEET: 4 OF 7			

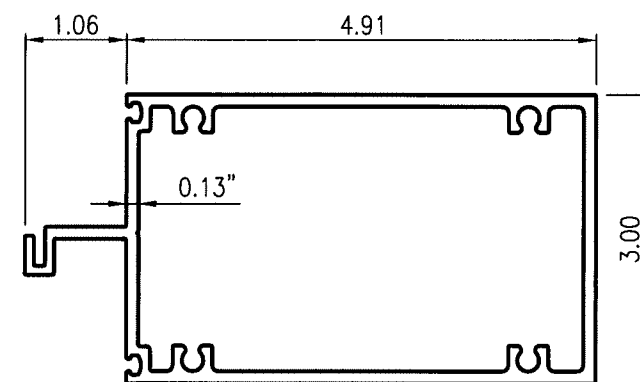


2/26/25
FL 46718

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

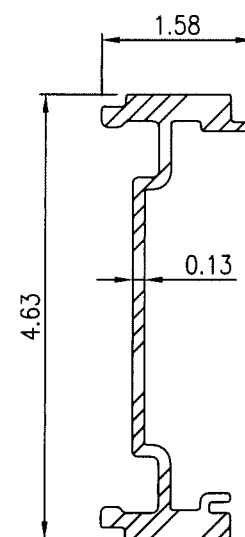


PRODUCT:		SUN METALS 650T ALUMINUM WINDOW WALL	
PART OR ASSEMBLY:		SILL ANCHORING ELEVATIONS	
NO	DATE	DESCRIPTION	BY
1	7/14/25	UPDATE TO 2023 FBC	ECV
REVISIONS			
DATE: 3/6/23			
SCALE: N.T.S			
DWG. BY: ECV			
CHK BY: -			
DRAWING NO.: FL-41967.4			
SHEET: 5 OF 7			



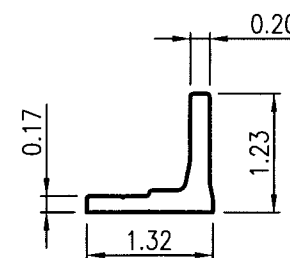
12 SPLIT MULLION CAP

10 FEMALE MULLION

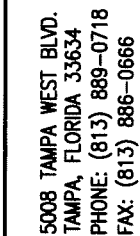


14 REINFORCEMENT BAR
Full frame height

19 JAMB REINFORCEMENT
72" Long



29 SILL ANCHOR BRACKET
[ANCHOR BRACKET LENGTH VARIES]



UCT: SUN METALS 650T
ALUMINUM WINDOW WALL

PART OR ASSEMBLY: _____

COMPONENTS

[illegible]

DATE: 3/6/23

SCALE: N.T.S

DWG. BY: ECV

CHK BY: -

DRAWING NO.:
FL-41967.4

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

