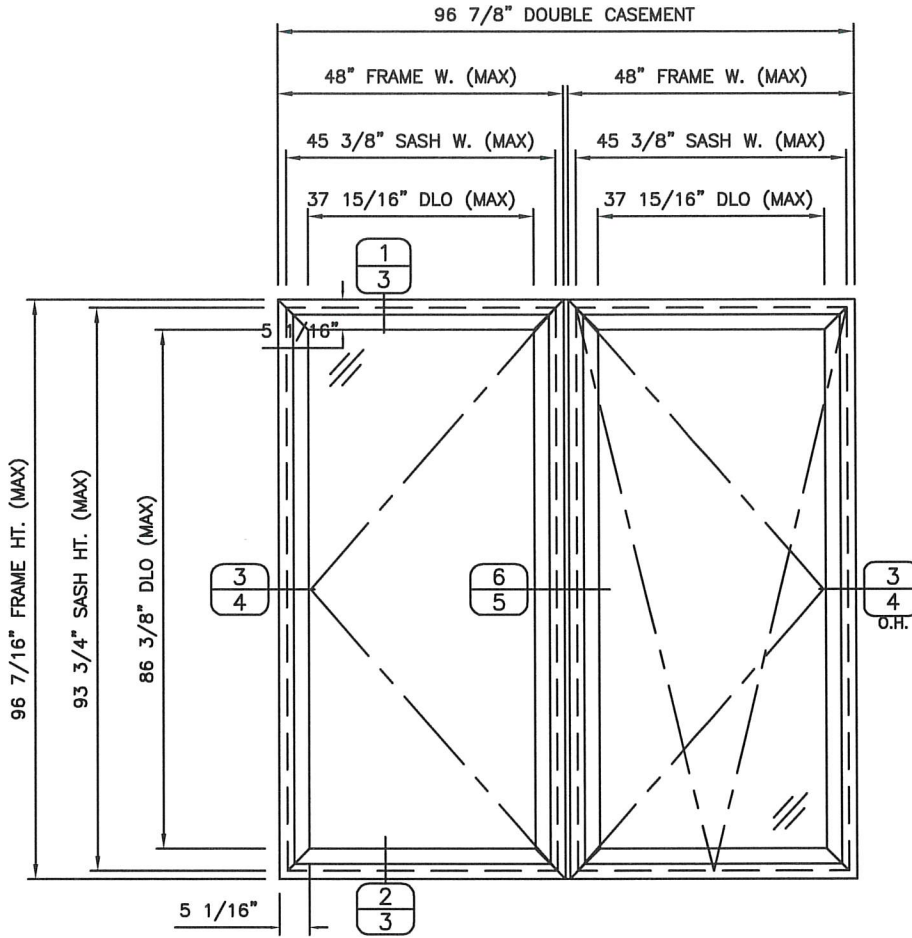


GENERAL NOTES:

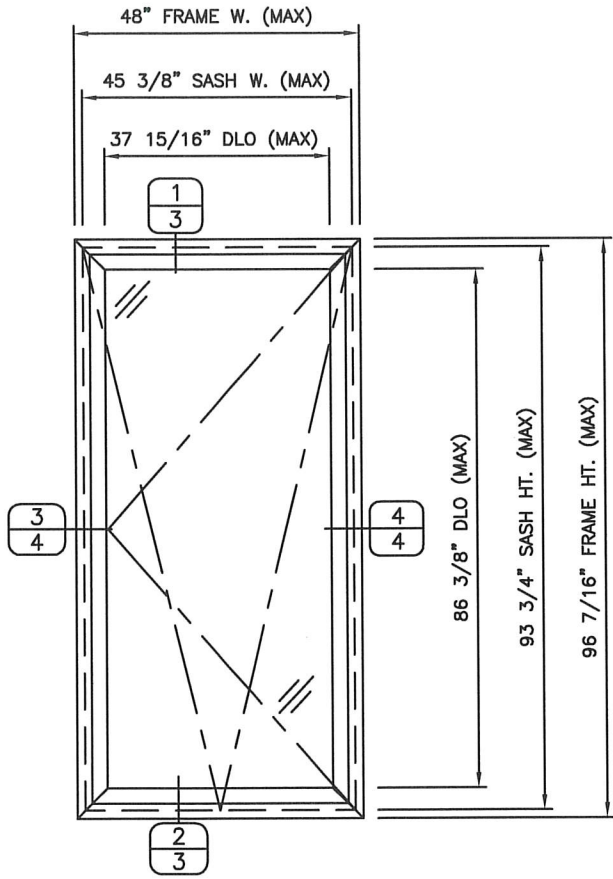
1. ALLOWABLE DESIGN PRESSURE: +/- 65 PSF
2. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO TAS 201, 202, & 203 PROTOCOLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), INCLUDING THE HVHZ PROVISIONS.
3. THIS PRODUCT AS SHOWN HEREIN IS LARGE AND SMALL MISSILE IMPACT RESISTANT FOR INSTALLATIONS UP TO 30 FT ABOVE GRADE. (SHUTTERS ARE REQUIRED FOR INSTALLATIONS > 30 FT ABOVE GRADE).
4. WOOD OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED TO TRANSFER LOADS TO THE STRUCTURE.
5. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS INDICATED IN THIS APPROVAL. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS.
8. NO STRESS INCREASES WERE USED IN THE DESIGN OR ANALYSIS OF THIS PRODUCT. A WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.

CORNER CONSTRUCTION:

9. WINDOW FRAME CORNERS ARE MITERED AND CRIMPED OVER 0687853.00 AND 0687952.00 CORNER KEYS, AND SECURED WITH REYNASEAL DUO.
10. WINDOW SASH CORNERS ARE MITERED AND CRIMPED OVER (2) 0687771.00 CORNER KEYS, SECURED WITH REYNASEAL DUO, AND SEALED WITH REYNAPROTECTOR.



DOUBLE CASEMENT WINDOW
(EXTERIOR VIEW)



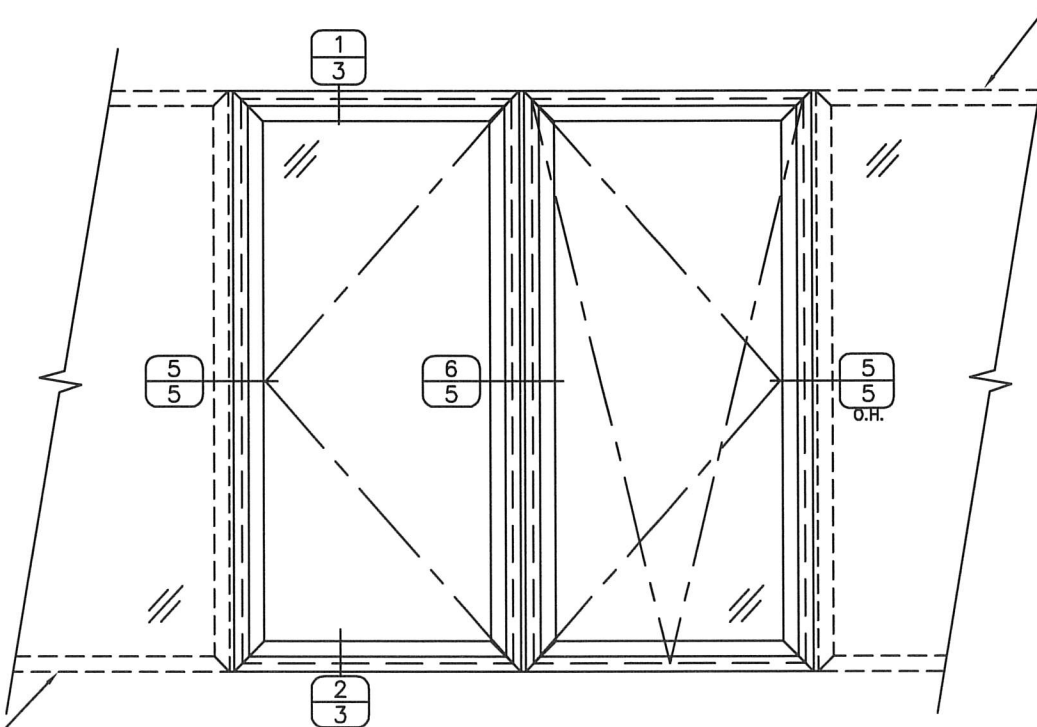
CASEMENT WINDOW
(EXTERIOR VIEW)

DESIGN PRESSURE
+/- 65 PSF

APPROVED WINDOW COMBINATIONS

NOTES:
1. See separate approval for CS77 Fixed Window dimensions and details.
2. Fixed and Casement Windows may be installed in unlimited overall widths, provided the individual window frames do not exceed the dimensions shown here or in separate CS77 Fixed Window approval.

OPTIONAL CS77 FIXED WINDOWS
PER SEPARATE PRODUCT APPROVAL.



DOUBLE CASEMENT WINDOW
WITH OPTIONAL FIXED SIDELITES
(EXTERIOR VIEW)

OPTIONAL CS77 FIXED WINDOWS
PER SEPARATE PRODUCT APPROVAL.

FOR FASTENER AND HARDWARE
LOCATIONS SEE SHEET 2/7.

DATE	REVISION DESCRIPTION	NO.	CS77 SERIES TILT & TURN INSWING CASEMENT WINDOW (HVHZ)
10/17/23	2023 CODE UPDATE	1	

REYNAERS, INC.

11201 N TATUM BLVD, SUITE 300
PHOENIX, AZ 85028-6039

info@reynaers.us
www.reynaers.us

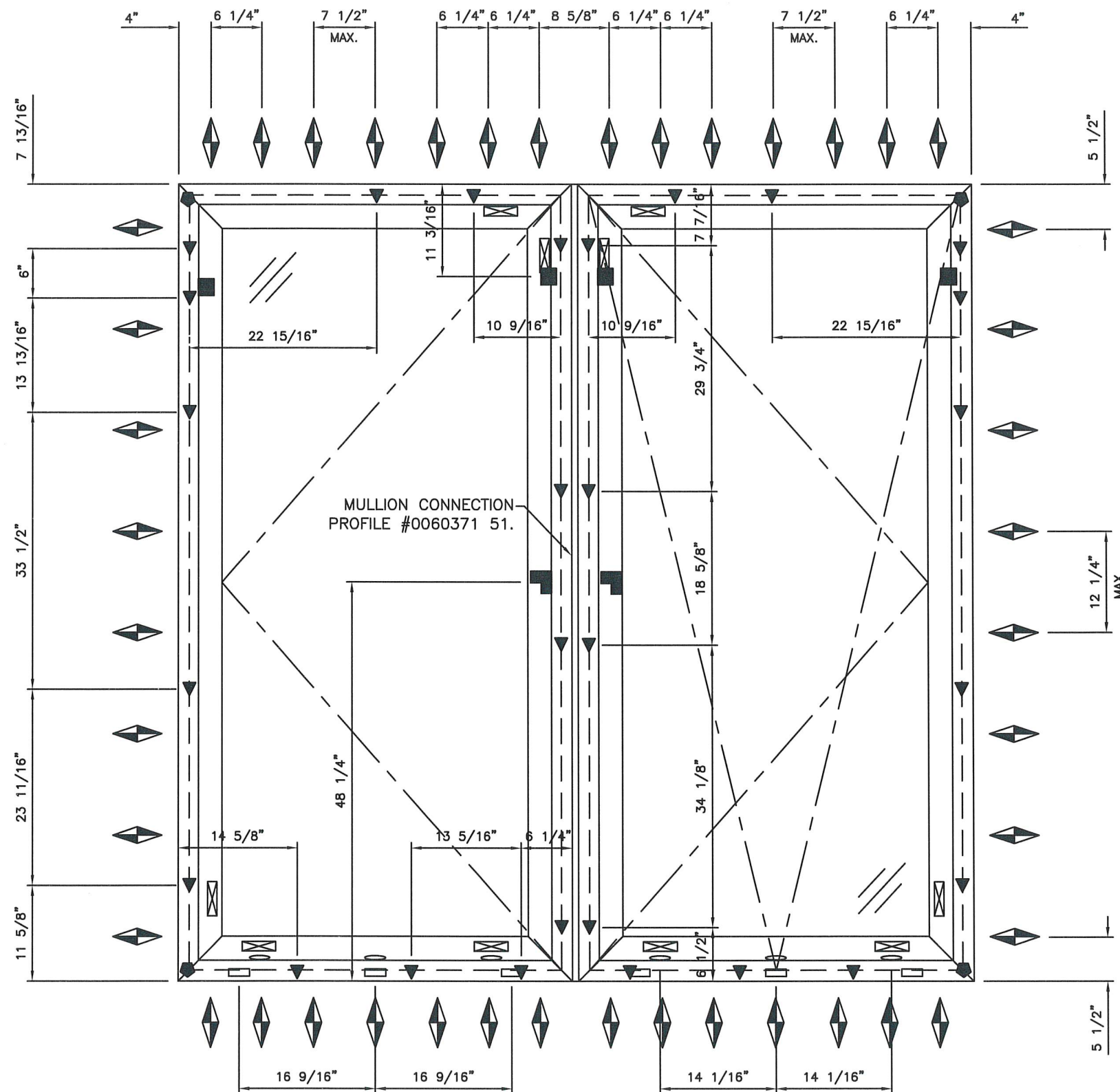
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA#27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

DRAWING NO.
CS77T&T-HZ

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FASTENER AND HARDWARE LOCATIONS

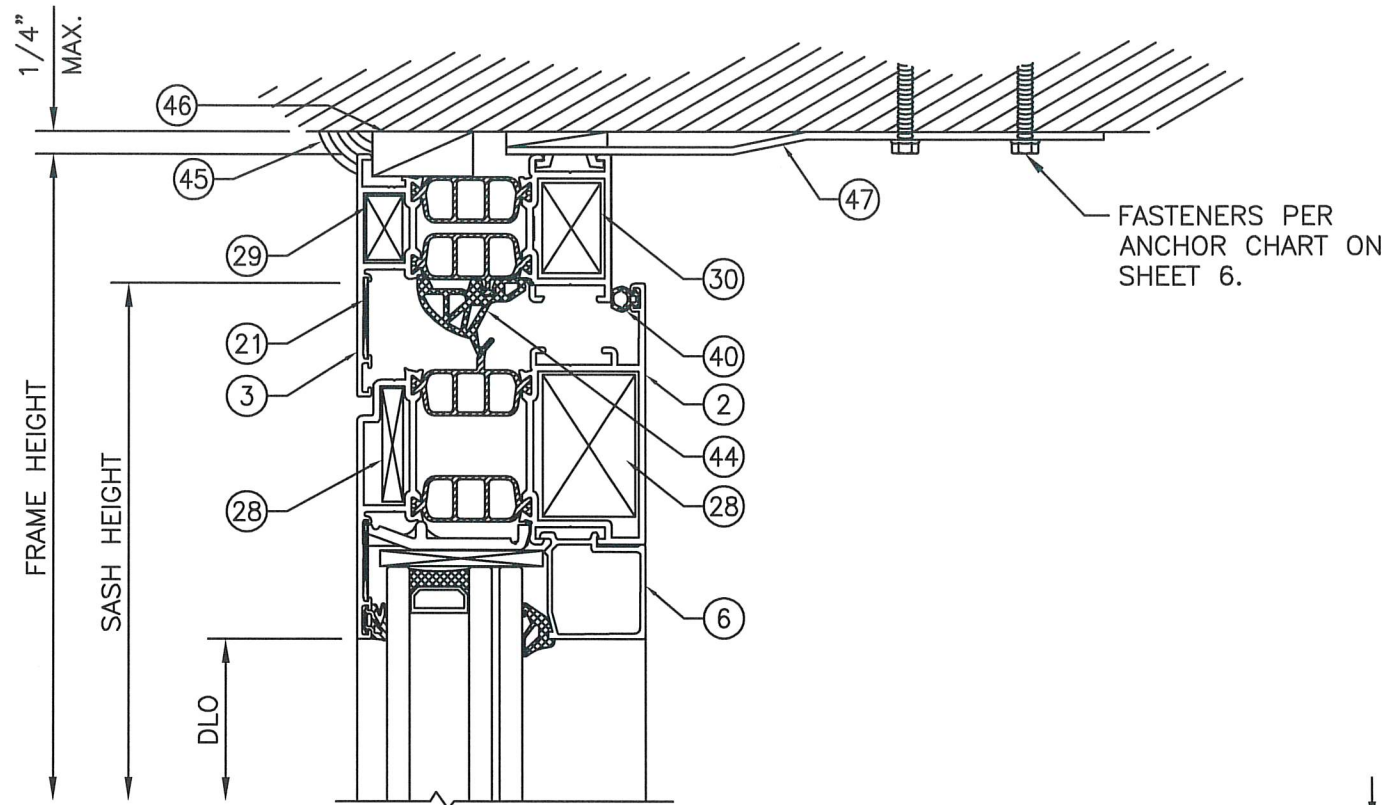


SYMBOL LEGEND:

-  STRAP ANCHOR 0566016 WITH (2) FASTENERS PER FRAME ANCHOR CHART ON SHEET 6/7.
-  SOBINCO LOCKING HARDWARE, (14) PER VENT (FOR MORE INFO SEE BILL OF MATERIALS ON SHEET 7/7.
-  SOBINCO HINGES 060.9012 (LEFT) OR 060.9013 (RIGHT), (2) PER VENT.
-  SOBINCO LOCK HANDLE 060.6452.
-  WEEP SLOT IN FRAME AND COVER 069.6831.04, (3) PER VENT.
-  WEEP SLOT IN VENT, (3) PER VENT.
-  VENT DECOMPRESSION (3/16" DIA.)
-  GLASS SETTING BLOCK OR CORNER BLOCK.

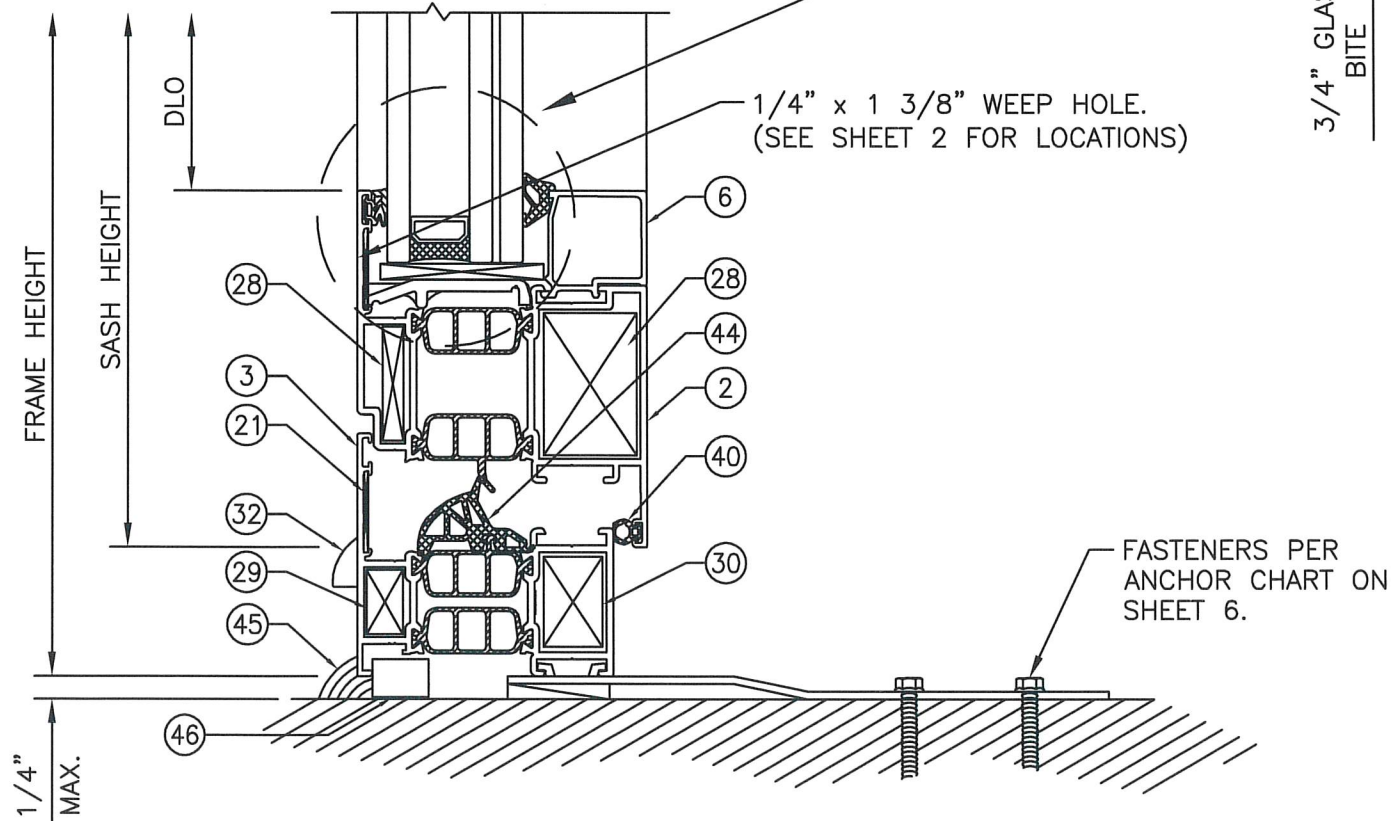
		CS77 SERIES TILT & TURN INSWING CASEMENT WINDOW (HVHZ)	
SCOTT WOLTERS FL PE# 62354		REYNAERS, INC.	
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412		11201 N TATUM BLVD, SUITE 300 PHOENIX, AZ 85028-6039 info@reynaers.us www.reynaers.us	
DRAWING NO.		CS77T&T-HZ	
SHEET NO.		2 OF 7	

1
3

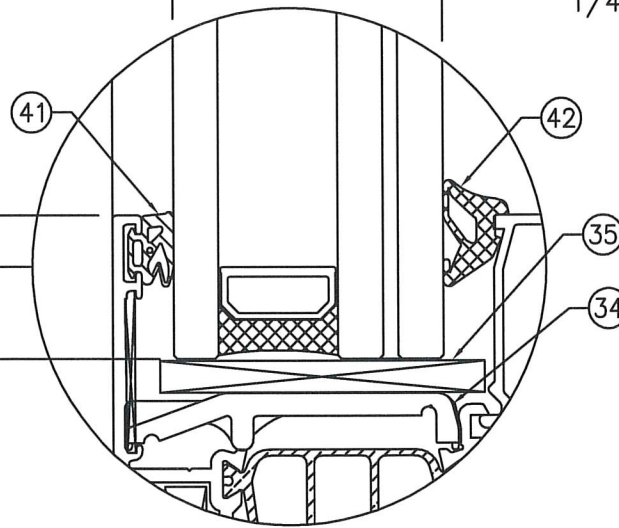


EXTERIOR

2
3



3/4" GLASS
BITE



GLAZING DETAIL

NO.	REVISION DESCRIPTION	DATE
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REYNAERS, INC.

11201 N TATUM BLVD, SUITE 300
PHOENIX, AZ 85028-6039

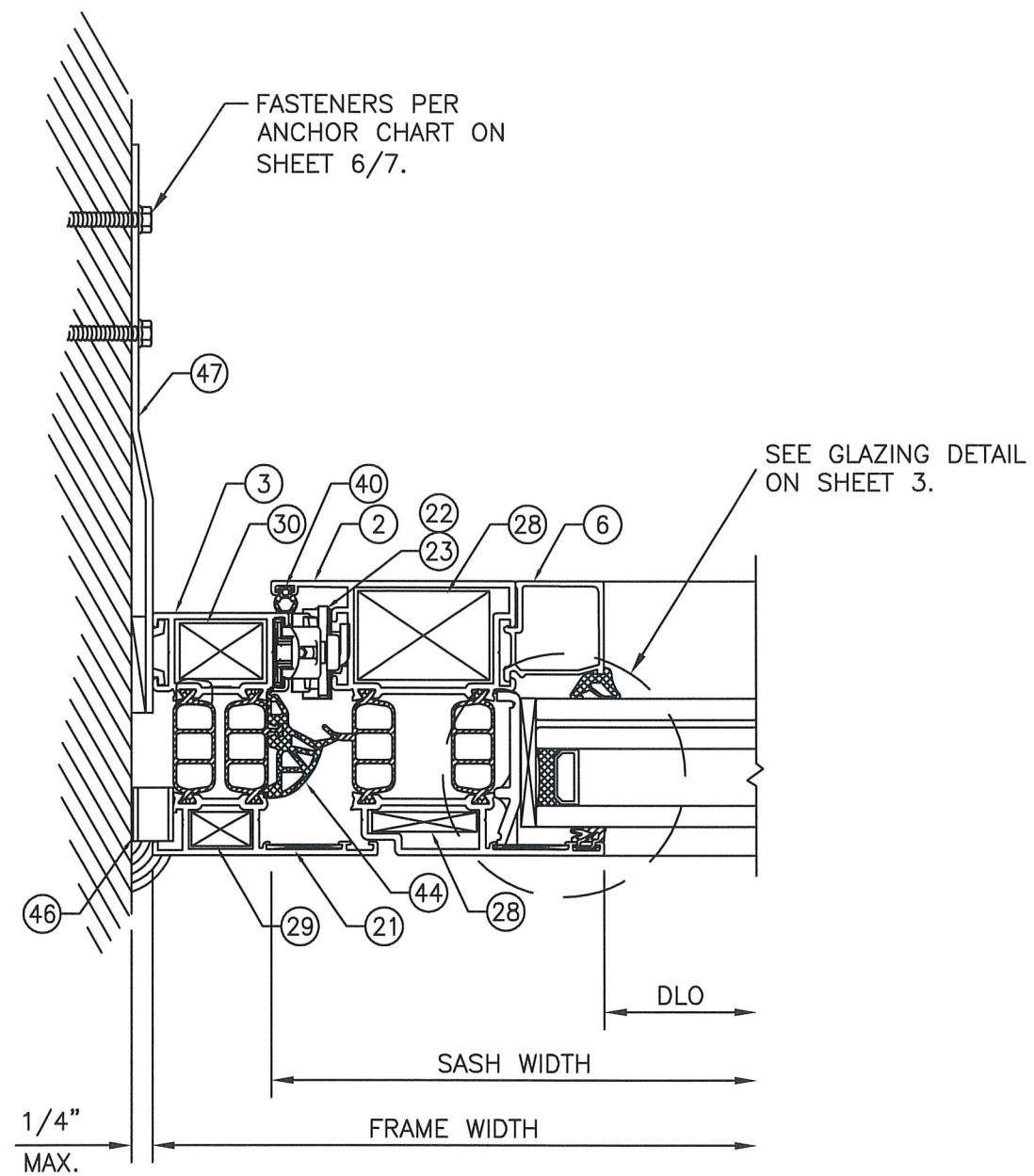
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SCOTT WOLTERS
FL PE# 62354

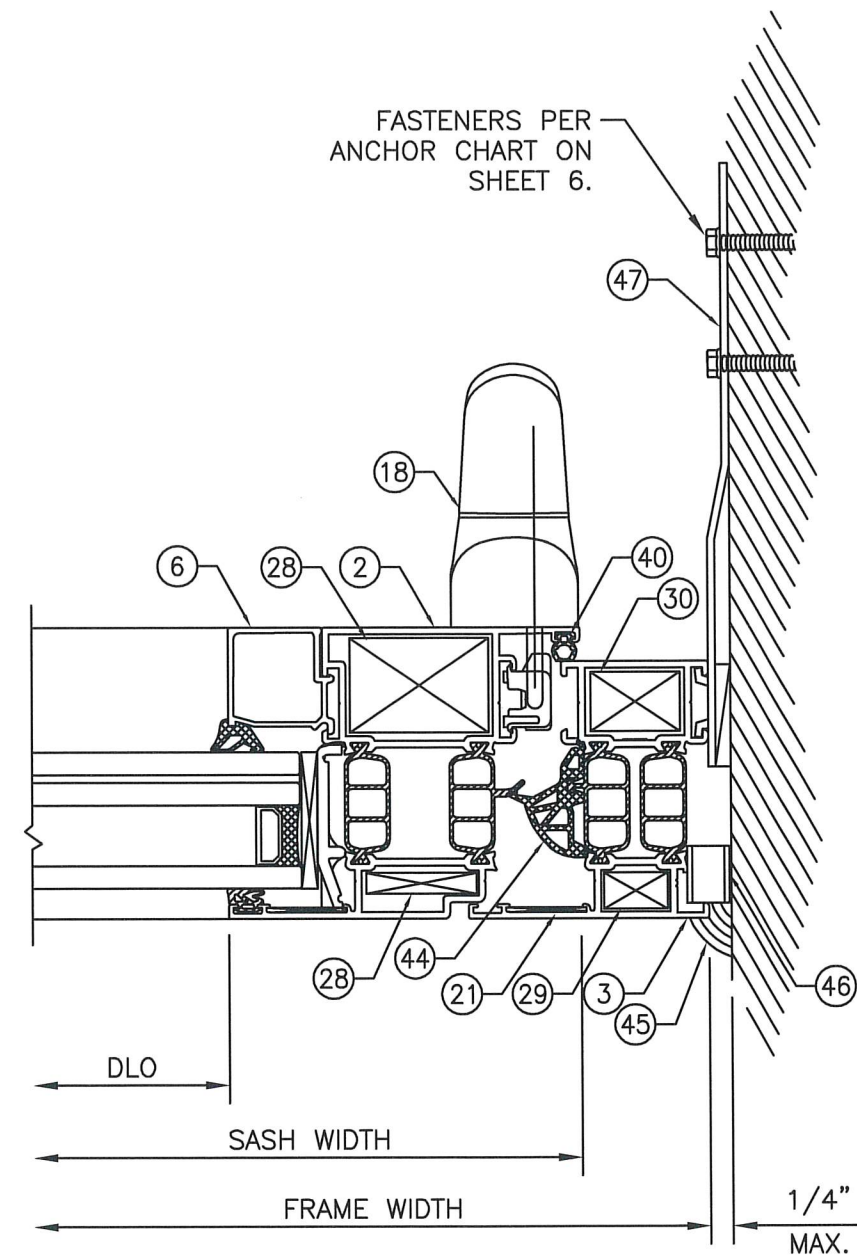
WOLTERS ENGINEERING
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

DRAWING NO.
CS77T&T-HZ

SHEET NO.
3 OF 7

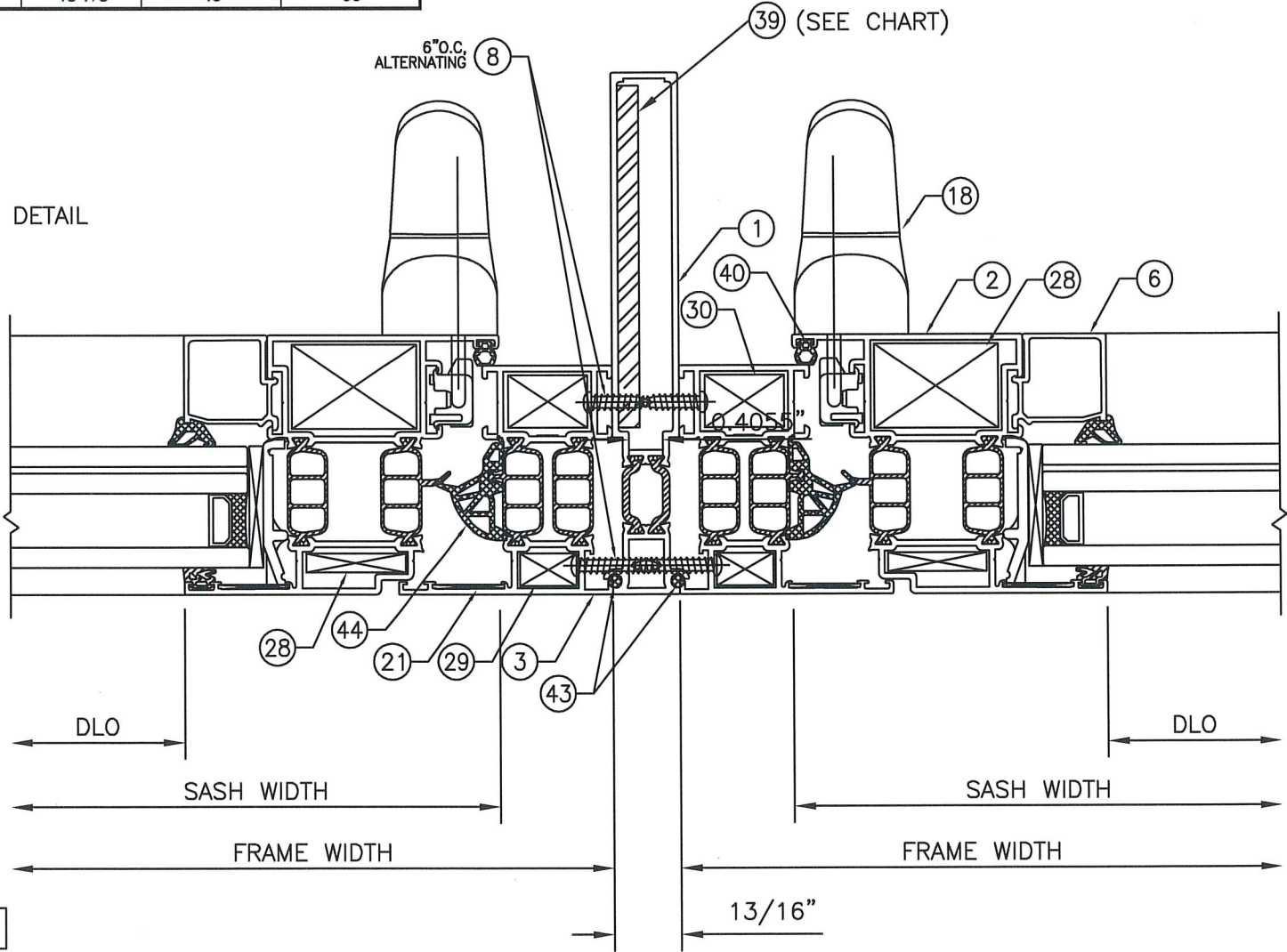
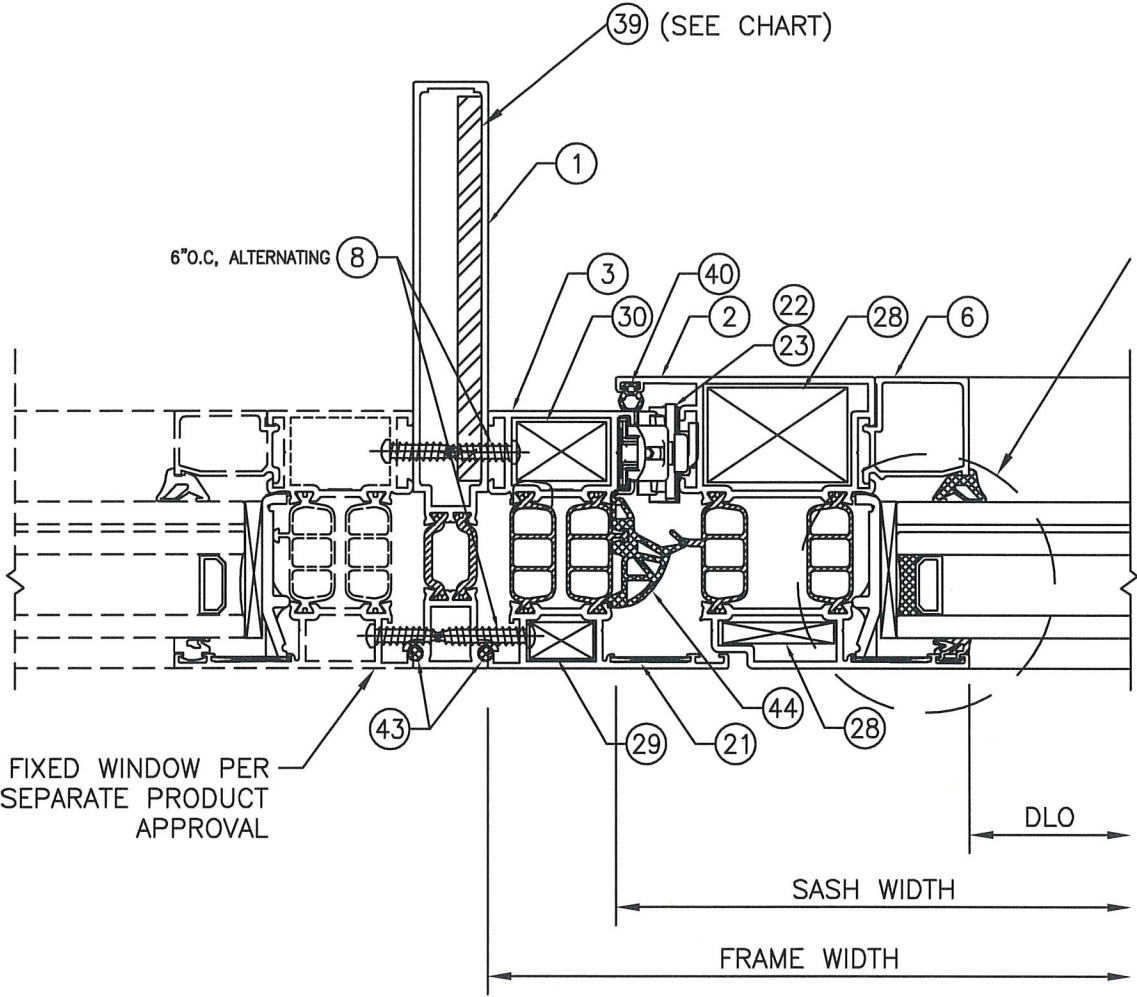


EXTERIOR



		CS77T&T-HZ DRAWING NO.	
SCOTT WOLTERS FL PE# 62354		CS77T&T-HZ SHEET NO.	
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412		4 OF 7	

MULLION ALLOWABLE DESIGN PRESSURE			
MULLION LENGTH (in)	MULLION SPACING (in)	MULLION ONLY (psf)	MULLION WITH STEEL (psf)
80	36	65	65
	42	65	65
	48 7/8	65	65
84	36	65	65
	42	65	65
	46	65	65
90	48 7/8	62	65
	36	65	65
	39	65	65
96	44	60	65
	48 7/8	54	65
	33	65	65
96	36	61	65
	40	55	65
	44	50	65
	48 7/8	45	65



EXTERIOR

5
5

6
5

NO.	REVISION DESCRIPTION	DATE
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CS77 SERIES TILT & TURN INSWING CASEMENT WINDOW (H/VHZ)

REYNAERS, INC.

11201 N TATUM BLVD, SUITE 300
PHOENIX, AZ 85028-6039

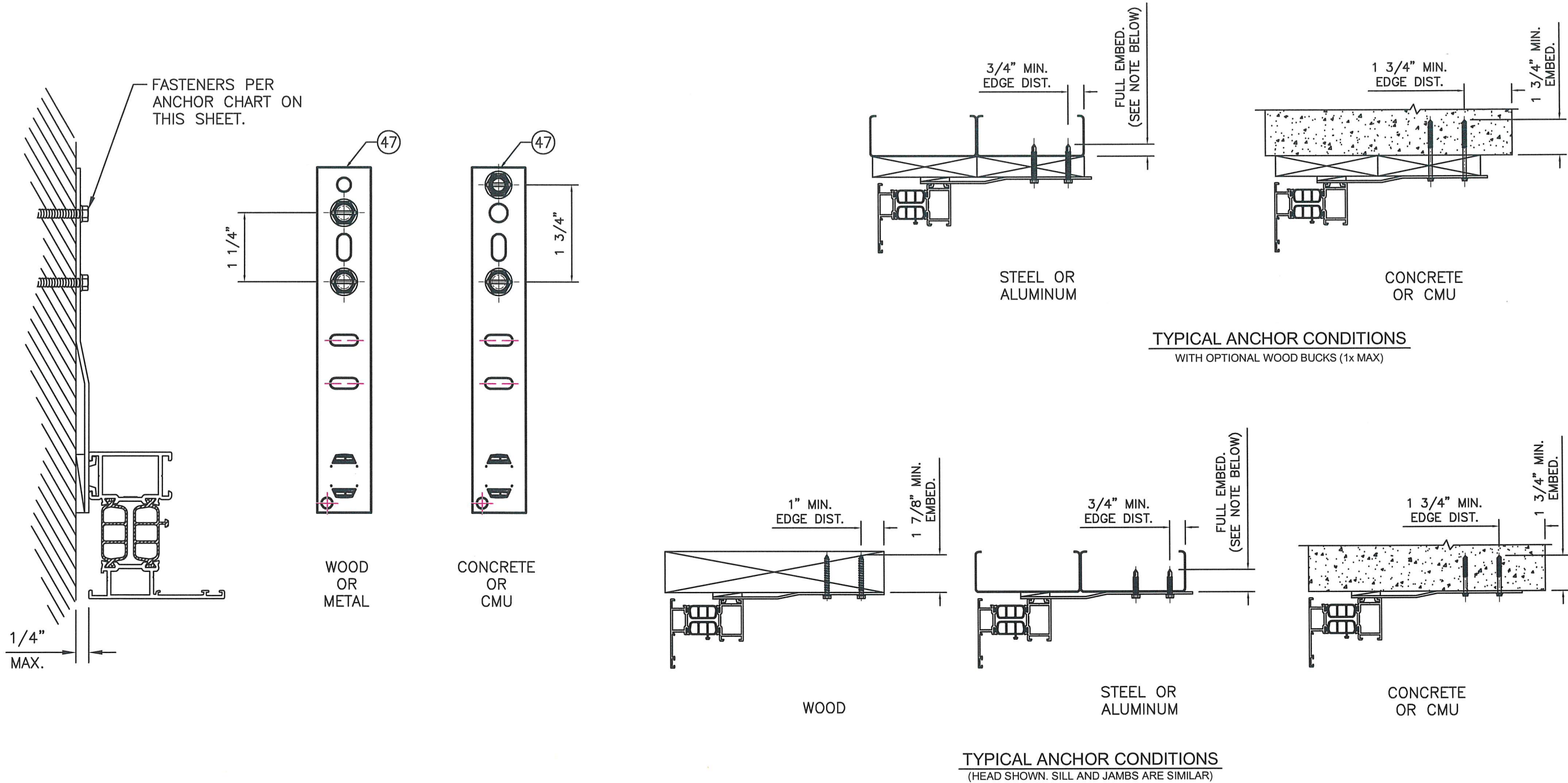
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SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CORP. 27164)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

DRAWING NO.
CS77T&T-HZ

SHEET NO.
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FRAME ANCHOR CHART:

SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE	SPACING
WOOD (2x, S.G.= 0.55 MIN)	#14 WOOD SCREW (Gr. 5 MIN)	1 7/8"	1"	1 1/4"
STEEL STUD (16 Ga, 33 KSI MIN)	1/4"-14 ITW TEKS SCREW, ELCO DRIL-FLEX, or ELCO SS BI-FLEX	FULL *	3/4"	1 1/4"
ALUM. (1/8" 6063-T5 MIN) OR STEEL (1/8", 33 KSI MIN)	1/4"-14 ITW TEKS SCREW, ELCO DRIL-FLEX, or ELCO SS BI-FLEX	FULL *	3/4"	1 1/4"
CONCRETE (3000 PSI MIN)	1/4" DIA. ITW TAPCON, ELCO ULTRACON, or ELCO SS AGGRE-GATOR	1 3/4"	1 3/4"	1 3/4"
GROUT-FILLED CMU (ASTM C90 MIN)	1/4" DIA. ITW TAPCON, ELCO ULTRACON, or ELCO SS AGGRE-GATOR	1 3/4"	1 3/4"	1 3/4"

* FULLY PENETRATES METAL WITH 3 THREADS BEYOND

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CS77 SERIES TILT & TURN INSWING CASEMENT WINDOW (HVHZ)

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info@reynaers.us
www.reynaers.us

11201 N TATUM BLVD, SUITE 300
PHOENIX, AZ 85028-6039

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27154)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

STATE OF FLORIDA
OCT 17 2023

DRAWING NO.
CS77T&T-HZ

SHEET NO.
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