

1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE 7TH EDITION FBC (2020)/ 8TH EDITION FBC (2023) INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2- DEFINITION: THIS PRODUCT IS A CASEMENT OUT TYPE WINDOW DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL. INSTALLATION BELOW 30 FEET ELEVATION IT WILL REQUIRE APPROVED HURRICANE PROTECTION DEVICES.

3- DESIGN LOADS: THE DESIGNED LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE WINDOW PRESSURE.

4- MATERIAL: GLAZING TO BE IMPACT LAMINATED GLASS AS SPECIFIED ON THIS APPROVAL.

5- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR QUANTITY & SPACING MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.

6- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

6.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.

6.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.

6.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

7- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, WOOD SCREWS WITH 1.6 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.

8- DISSIMILAR MATERIALS: MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FBC (2020)/ 8TH EDITION FBC (2023).

9- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-16/ASCE 7-22, MULTIPLY BY 0.6, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THE DOCUMENT ARE ALLOWABLE DESIGN LOADS.

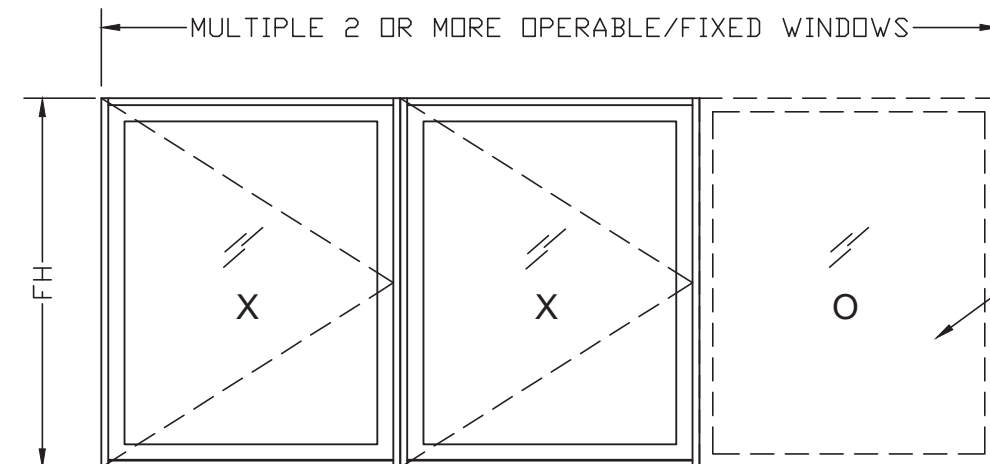
10- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY
VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF
FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION
1709.9.2.

FOR ALLOWABLE SIZES AND PRESSURES REFER TO:
SHEETS 2 AND 3

PRODUCT NOT TO BE INSTALLED BELOW 30 FEET ELEVATION
WITHOUT HURRICANE PROTECTION DEVICES

(X) SINGLE
CASEMENT OUT WINDOW
SEE SHEET 2 FOR RATING

(XX, XXX, XXXn)
MULTIPLE CASEMENT OUT WINDOWS
SEE SHEET 3 FOR RATING



(X0, X0X, 0X0, 0XX0Xn)
MULTIPLE COMBINATION OF CASEMENT OUT AND FIXED WINDOWS
SEE SHEET 3 FOR RATING

—SEE SEPARATE
APPROVAL FOR
FIXED WINDOW

SHEET	DESCRIPTION
1 of 9	GENERAL NOTES, INDEX AND TYPICAL ELEVATIONS
2 of 9	TABLE 1 DESIGN RATING FOR SINGLE CASEMENT OUT UNITS
3 of 9	TABLE 2 DESIGN RATING FOR MULTIPLE WINDOWS UNITS
4 of 9	TYPICAL DETAILS
5 of 9	TYPICAL DETAILS, CORNER ASSEMBLY
6 of 9	ANCHORAGE LAY-OUT WITH STRAPS
7 of 9	ANCHORAGE LAY-OUT WITH SHEAR CLIP
8 of 9	WINDOW COMPONENTS AND BILL OF MATERIAL
9 of 9	HARDWARE SCHEDULE, GLAZING DETAILS & WEEP HOLES

LIMITATIONS OF USE

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

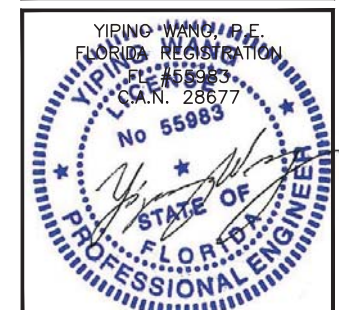
**C- THIS PRODUCT EVALUATION DOCUMENT
WILL BE CONSIDERED INVALID IF ALTERED
BY ANY MEANS.**

D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL #21448.2



August 16th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

GLAZING CONSULTANTS

12781 Miramar Pkwy. Ste 301
Miramar, FL 33027 P:

Miramar, FL 33027

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SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)

INR ARCHITECTURAL PRODUCTS

4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407

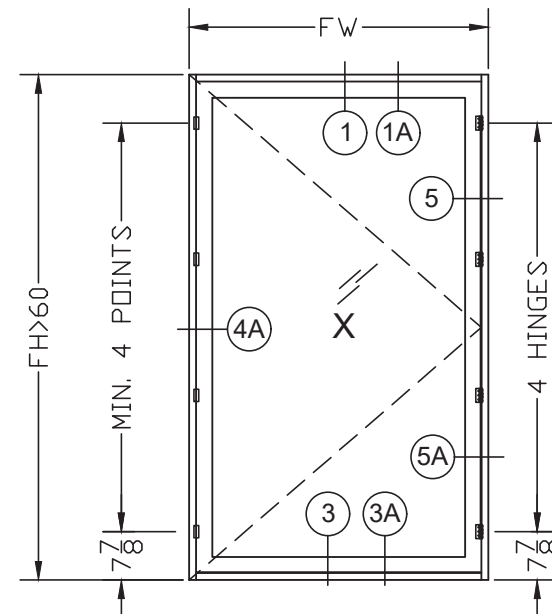
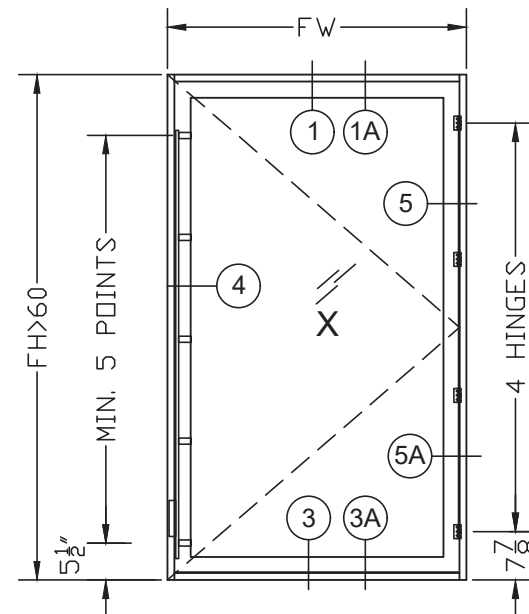
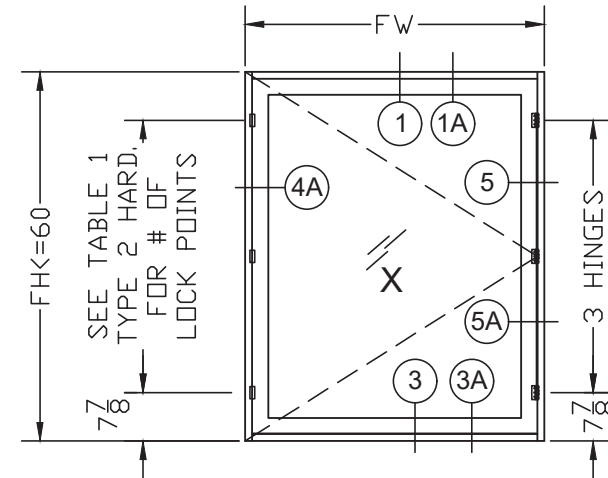
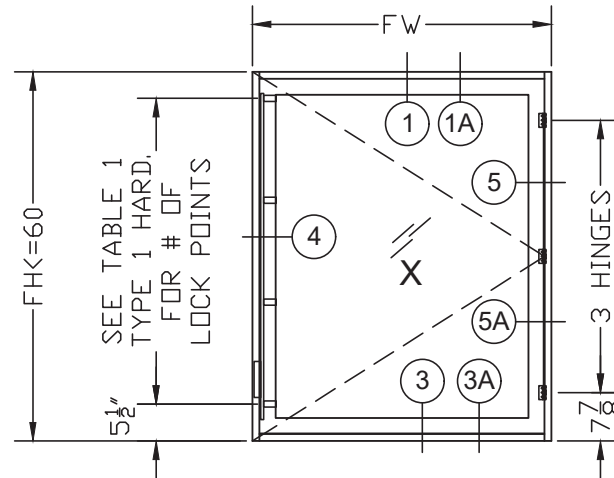
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				FBC 2023	Description
			Jamies	Drawn By	
			08.11.2023	Date	
		R3		Rev No.	
Drawn Date 08.11.2023			Scale AS SHOWN		
DRAWING NO. AD16-43					
Sheet No. 01 OF 09					

TABLE 1
DESIGNED RATING FOR
SINGLE CASEMENT OUT UNITS (PSF)

		HARDWARE TYPE 1			HARDWARE TYPE 2		
MAX. FW	FRAME FH	PRESSURES		LOCK POINTS	PRESSURES		LOCK POINTS
		EXT (+)	INT (-)		EXT (+)	INT (-)	
32	38	120	120	3	120	120	3
	42	120	120	3	120	120	3
	48	120	120	4	120	120	3
	54	117	117	4	120	120	3
	60	101	101	4	120	120	3
	66	89	89	5	118	118	4
	72	79	79	5	105	105	4
38.75	38	120	120	3	120	120	3
	42	120	120	3	120	120	3
	48	120	120	4	120	120	3
	54	106	106	4	120	120	3
	60	90	90	4	120	120	3
	66	78	78	5	86	86	4
	72	69	69	5	78	78	4
44	38	105	105	3	105	105	3
	42	101	101	3	101	101	3
	48	101	101	4	101	101	3
	54	92	92	4	92	92	3
	60	83	83	4	83	83	3
	66	73	73	5	75	75	4
48.625	38	80	80	3	80	80	3
	42	77	77	3	77	77	3
	48	75	75	4	75	75	3
	54	75	75	4	75	75	3
	60	75	75	4	75	75	3
54	38	50	50	3	50	50	3
	42	47	47	3	47	47	3
	48	45	45	4	45	45	3
	54	44	44	4	44	44	3

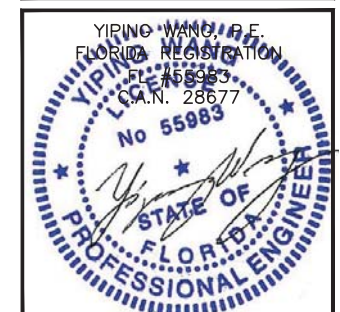
FW- FRAME WIDTH IN INCHES
FH- FRAME HEIGHT IN INCHES
PRESSURES IN PSF
SEE ELEVATIONS ON THE RIGHT SIDE FOR HARDWARE TYPE
DLO= FH-7.5" OR FW-7.5"



(X) SINGLE
CASEMENT OUT WINDOW
WITH HARDWARE TYPE 1
MULTIPOINT LOCK (ADVANTAGE OR ROTO)
3-1/4" BUTT HINGE ADVANTAGE 1192

(X) SINGLE
CASEMENT OUT WINDOW
WITH HARDWARE TYPE 2
BRONZECRAFT CAMLOCK
3-1/4" BUTT HINGE ADVANTAGE 1192

FLORIDA APPROVAL:
FL #21448.2



August 16th, 2023

SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)

NR ARCHITECTURAL PRODUCTS

4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407

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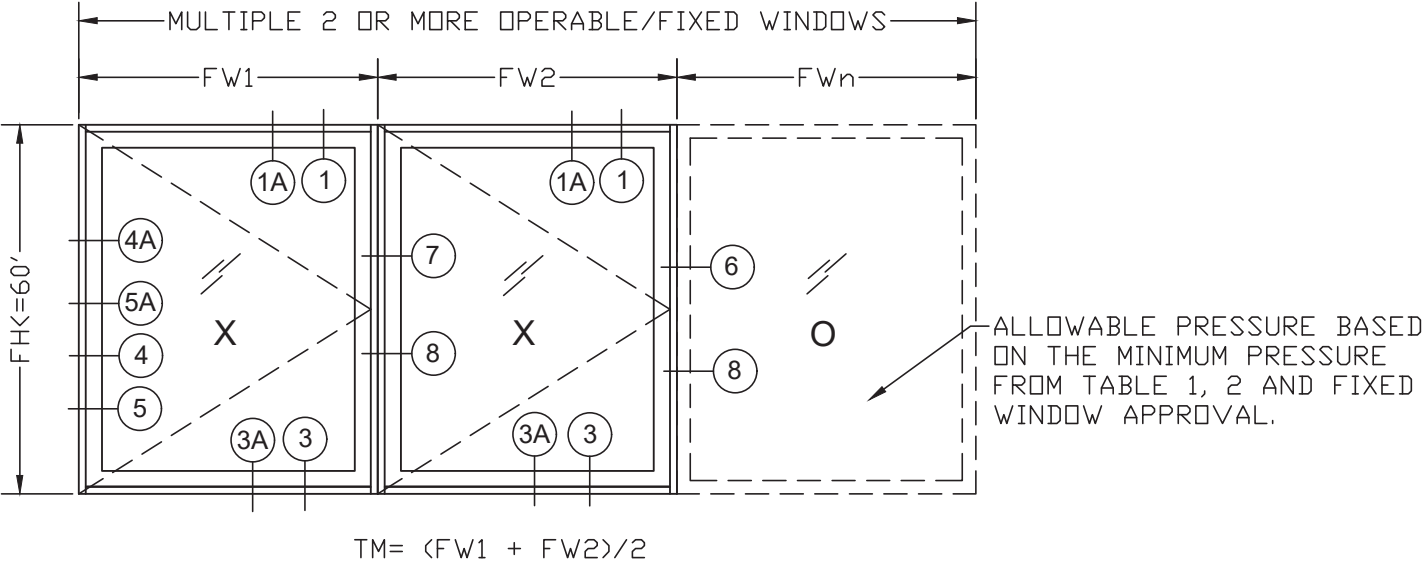
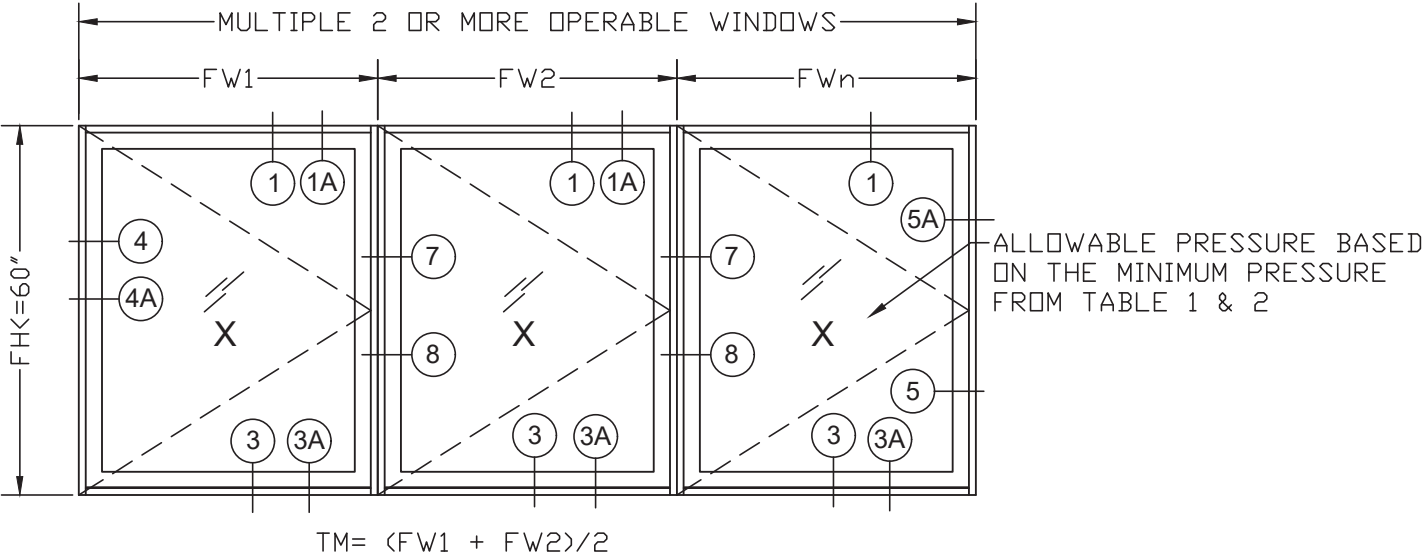
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							FBC 2023	Description
							JAMES	Drawn By
							08.11.2023	Date
						R3		Rev No.
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DRAWING NO. AD16-43								
Sheet No. 02 OF 09								

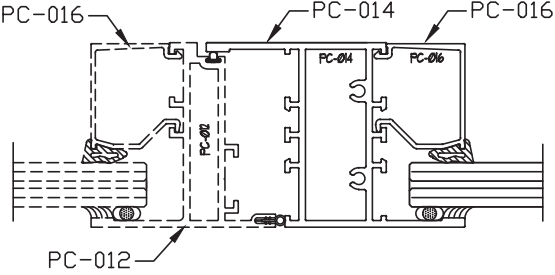
TABLE 2
DESIGNED RATING FOR MULLIONS ON
MULTIPLE CASEMENT OR/AND FIXED UNITS (PSF)

TM	FH	MULL TYPE 6		MULL TYPE 7		MULL TYPE 8	
		EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)
32	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	115.0	115.0
	54	120.0	120.0	116.5	116.5	97.0	97.0
	60	120.0	120.0	100.6	100.6	83.9	83.9
38.75	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	106.0	106.0
	54	120.0	120.0	105.6	105.6	88.0	88.0
	60	120.0	120.0	90.0	90.0	75.0	75.0
44	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	103.0	103.0
	54	120.0	120.0	100.6	100.6	83.9	83.9
	60	111.2	111.2	83.4	83.4	75.0	75.0
48.625	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	102.0	102.0
	54	120.0	120.0	98.1	98.1	81.8	81.8
	60	105.4	105.4	79.1	79.1	75.0	75.0
54	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	102.0	102.0
	54	120.0	120.0	97.2	97.2	81.0	81.0

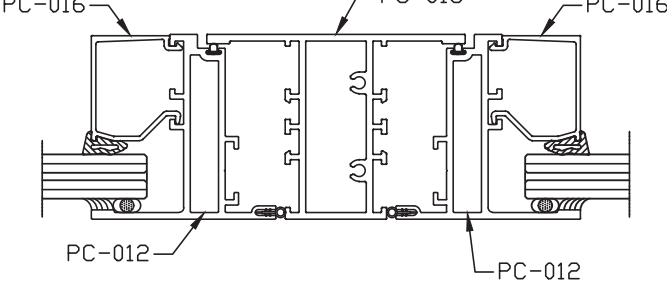
TW- MAXIMUM TRIBUTARY MODULE WIDTH IN INCHES
FH- MAXIMUM FINISHED HEIGHT IN INCHES
PRESSURES IN PSF
DLO= FH-7.5" OR FW-7.5"



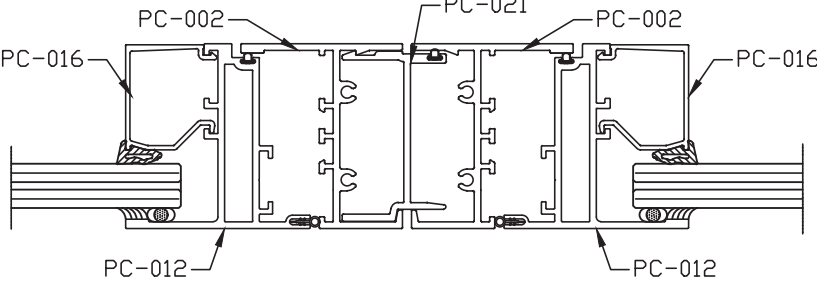
6 MULLION 6
FIXED-CASEMENT



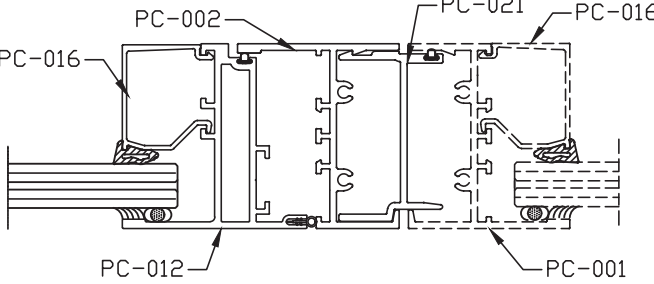
7 MULLION 7
CASEMENT-CASEMENT



8 MULLION 8
CASEMENT - CASEMENT



8 MULLION 8
FIXED-CASEMENT



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FL #21448.2



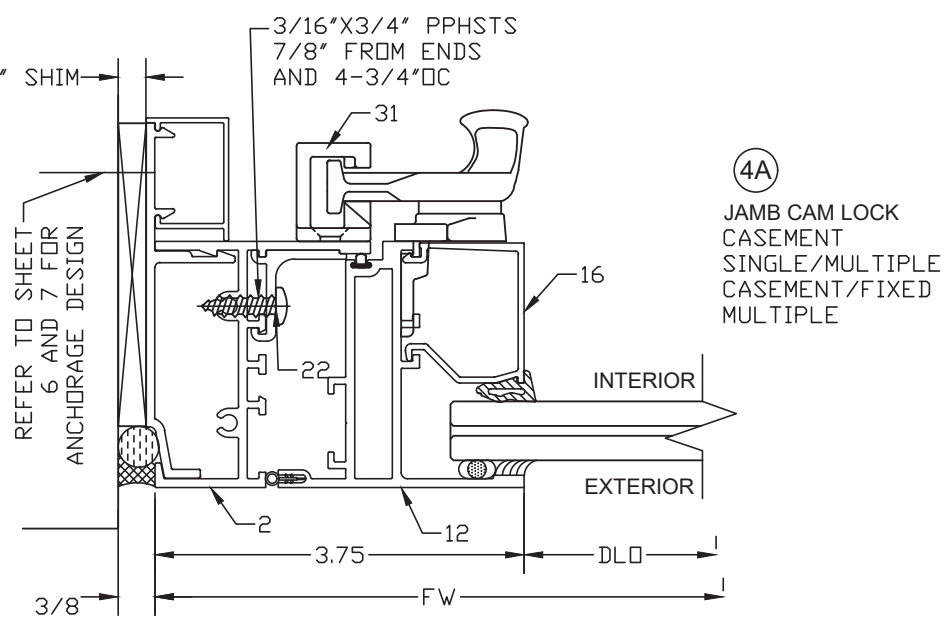
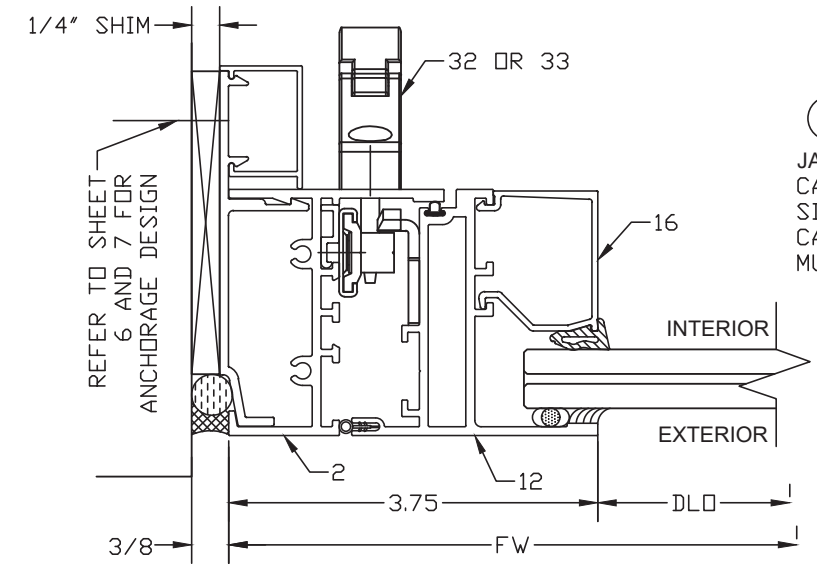
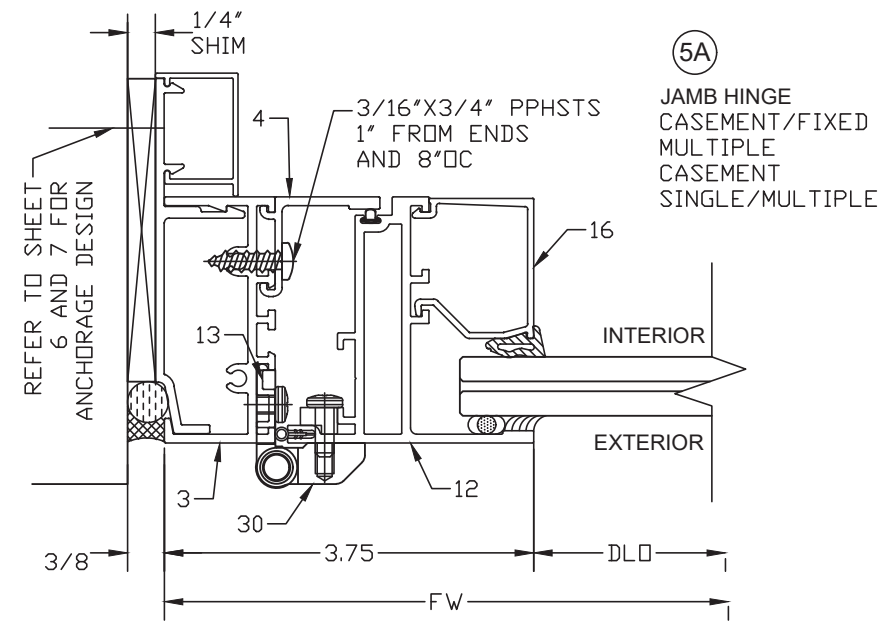
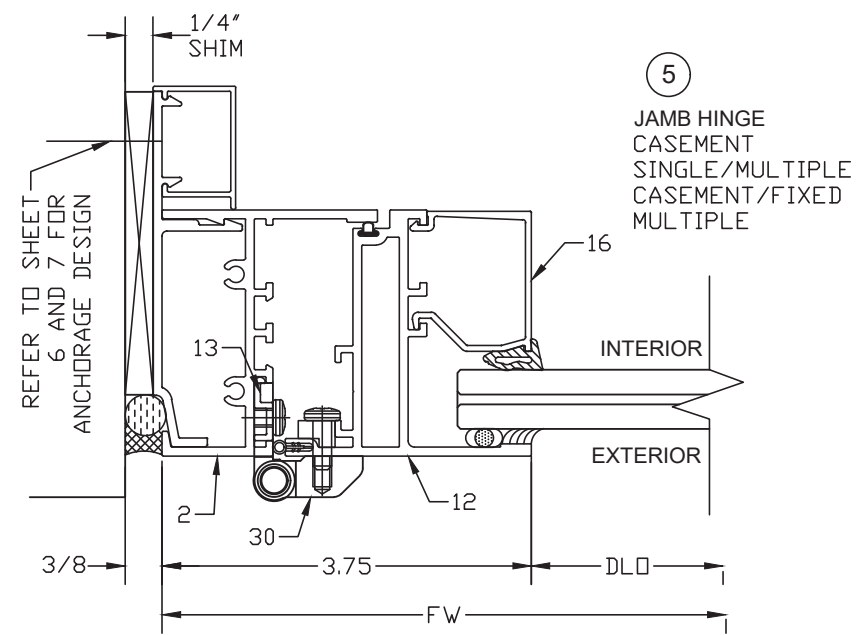
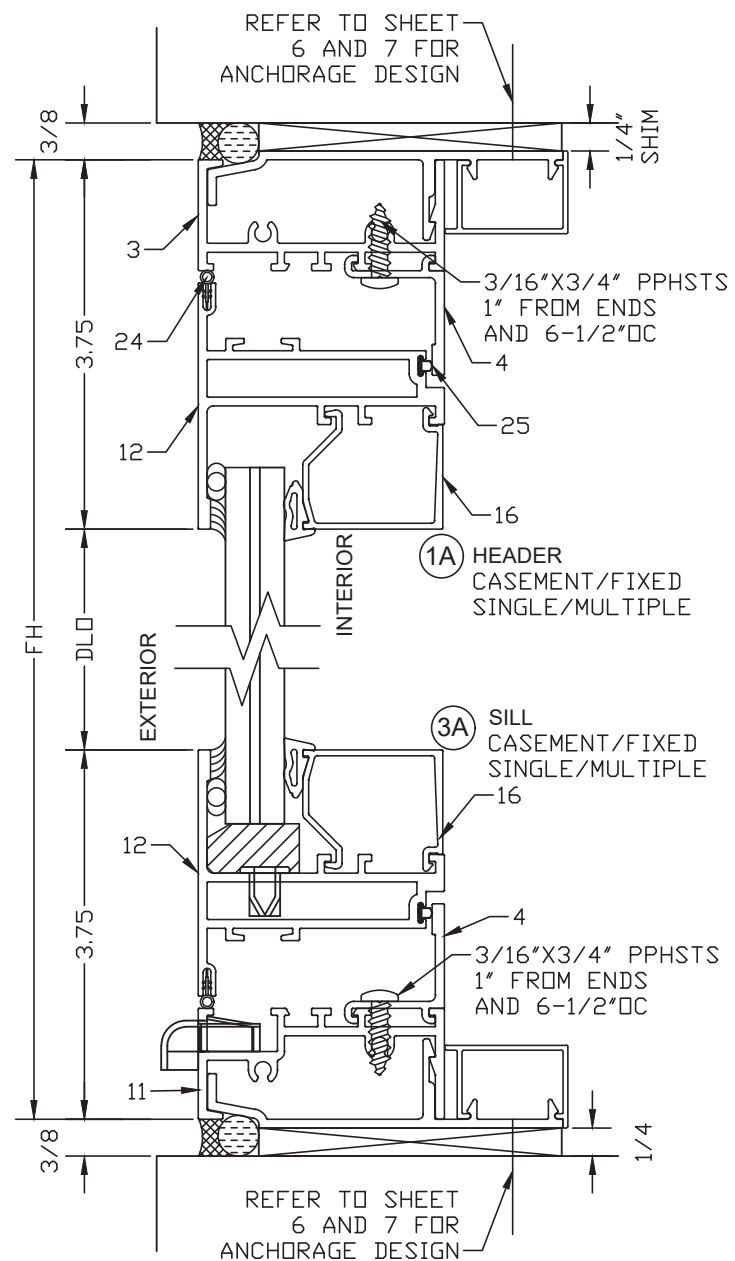
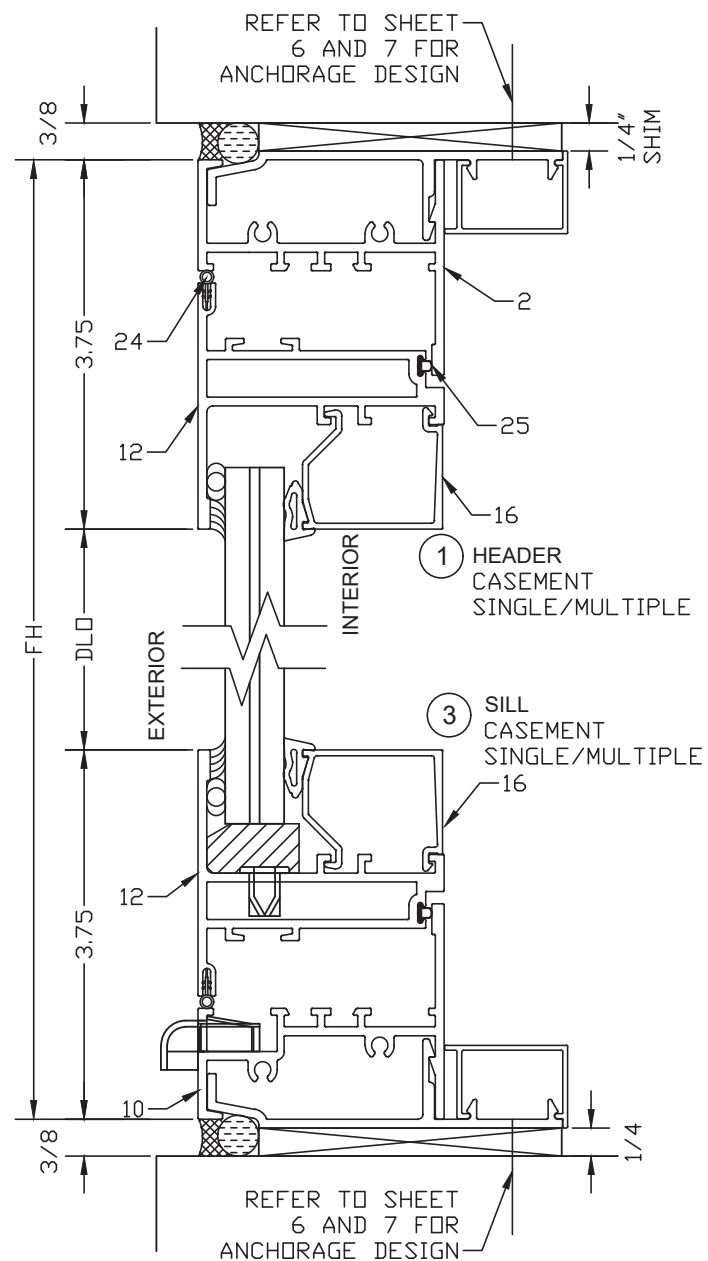
August 16th, 2023

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SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)
NR ARCHITECTURAL PRODUCTS
4348 WESTROADS DRIVE
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03	08.11.2023	James	FBC 2023
DRAUGHTING NO.			
AD16-43			
Sheet No.			
03 OF 09			

TYPICAL DETAILS



FLORIDA APPROVAL:

FL #21448.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677

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PROFESSIONAL ENGINEER

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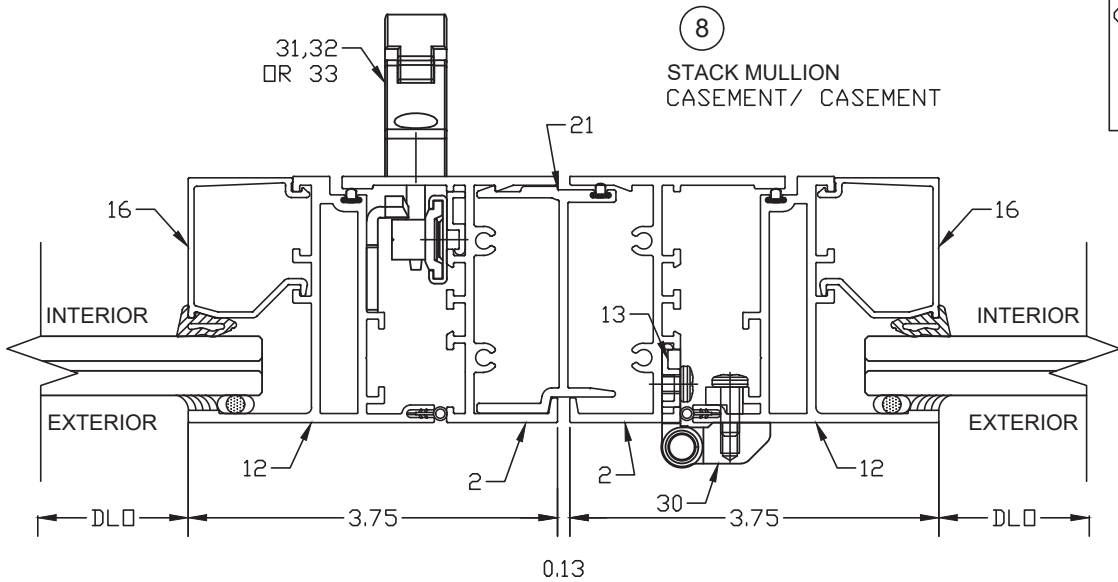
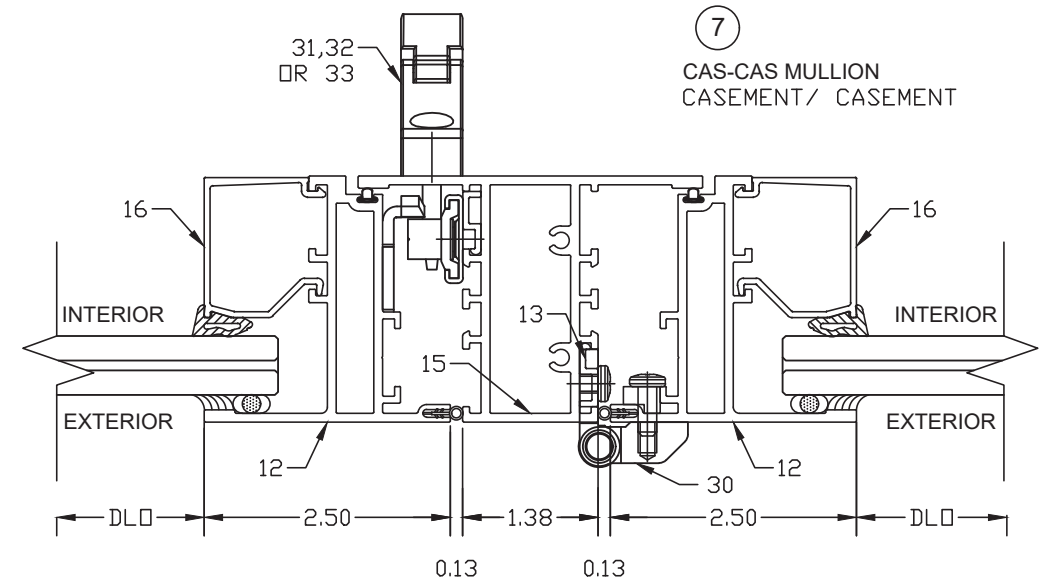
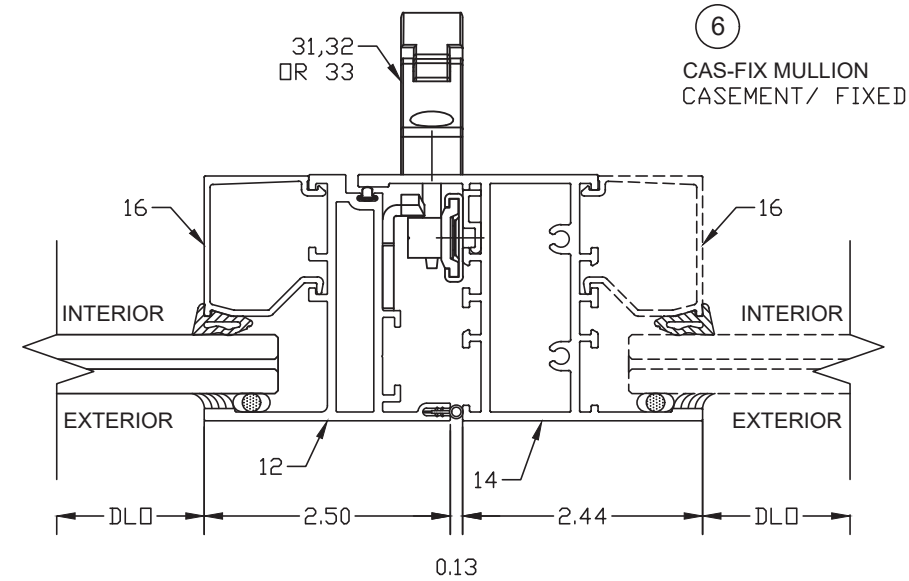
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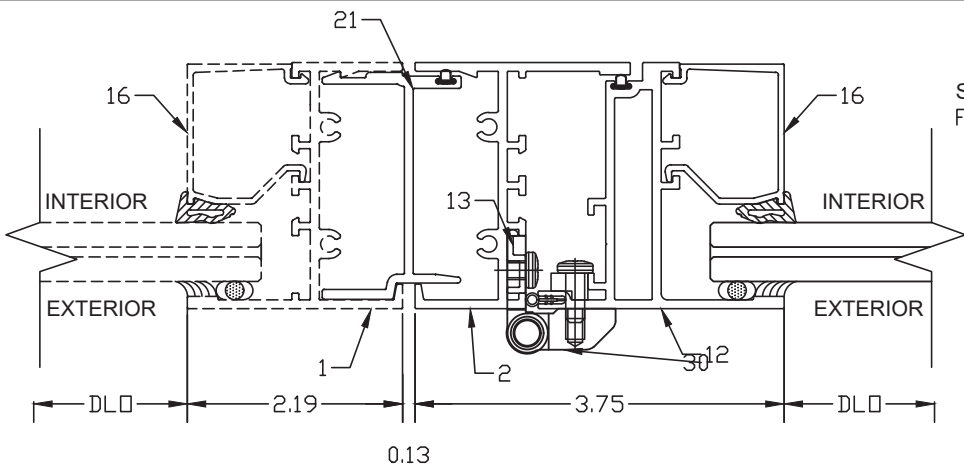
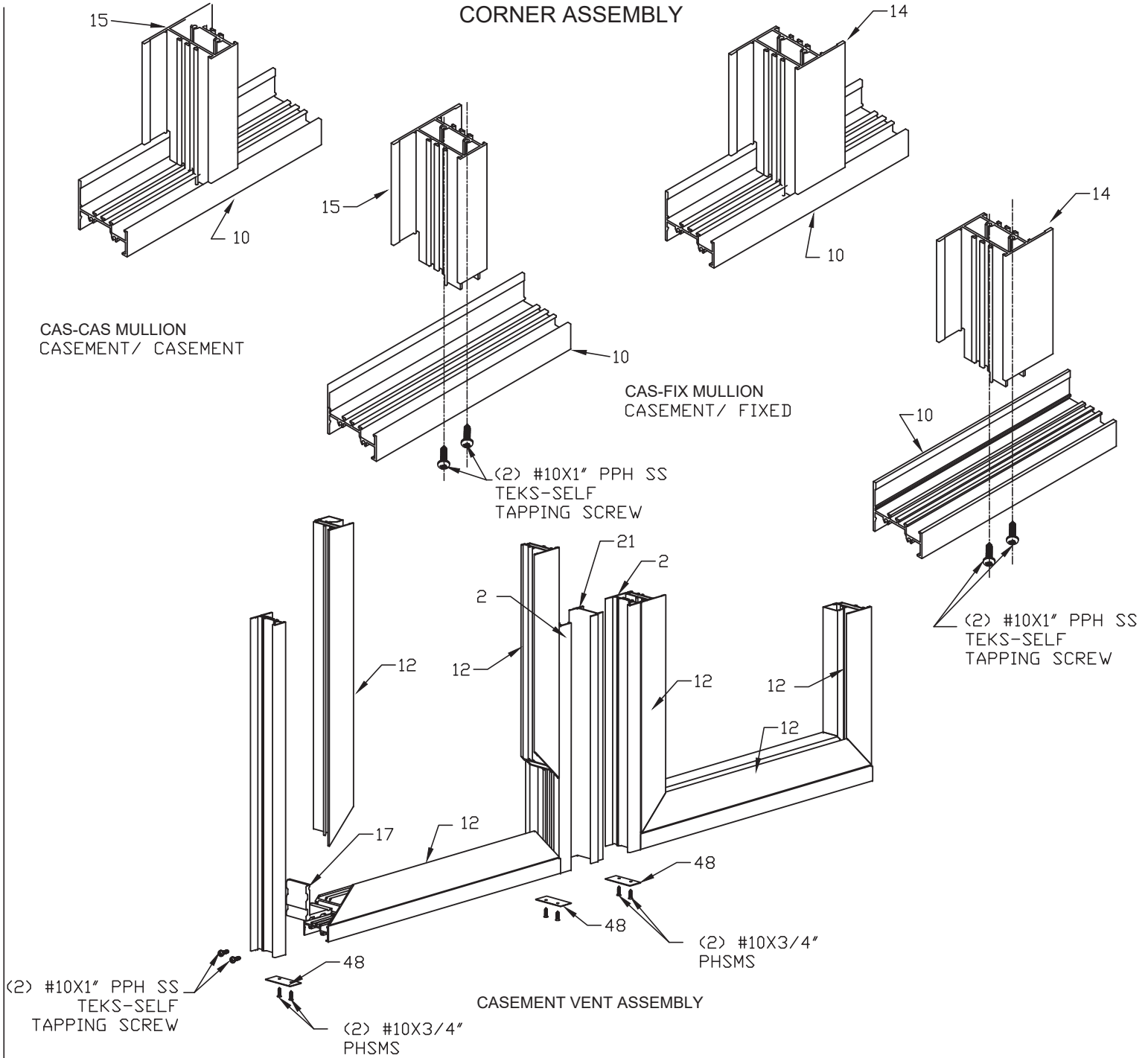
Sheet No. 04 OF 09

August 16th, 2023

TYPICAL DETAILS



CORNER ASSEMBLY



⑧ STACK MULLION FIXED/ CASEMENT

FLORIDA APPROVAL:
FL #21448.2

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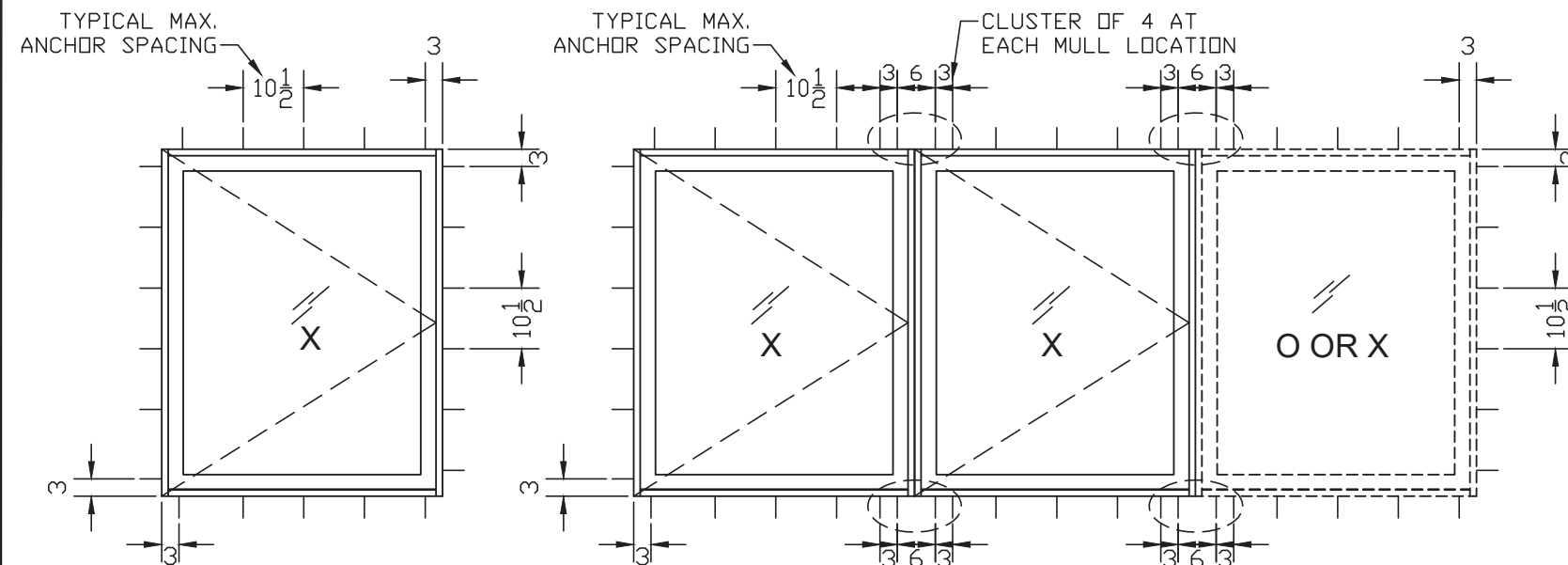
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ANCHORAGE LAY-OUT WITH STRAP

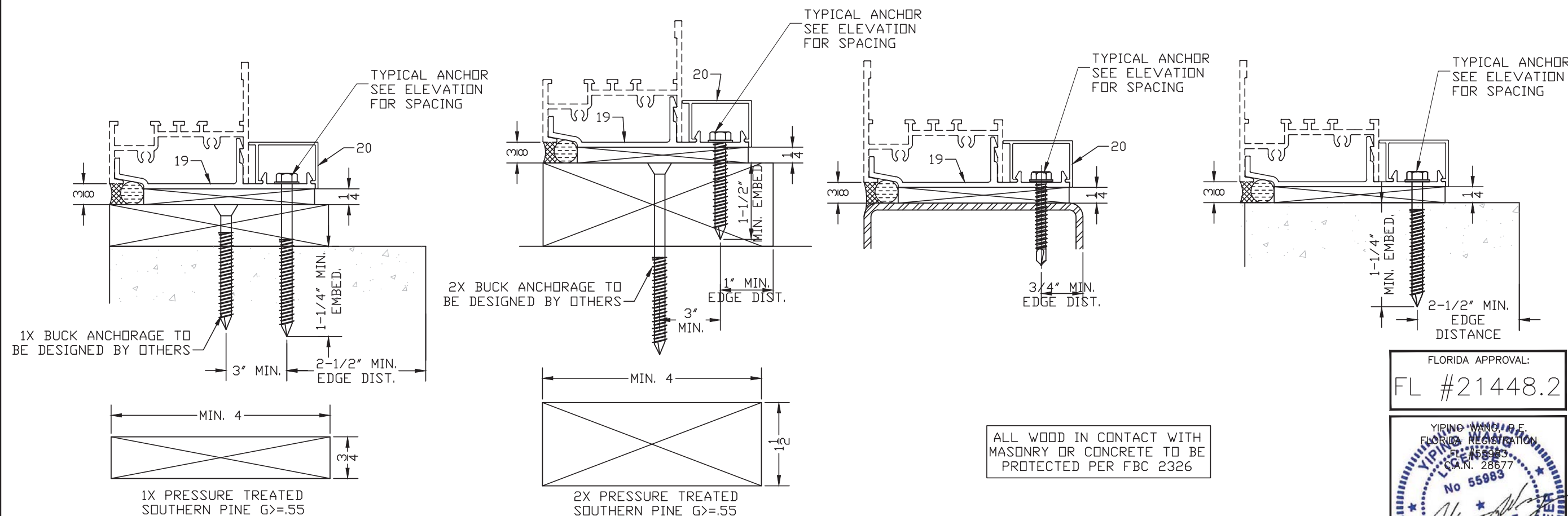
TYPICAL ANCHORS: (SEE ELEVATION FOR SPACING)

TYPE "A": 1/4" TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
 1/4" ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 1-1/2" MIN. EMBED INTO WOOD STRUCTURES (SG=0.55 MIN.)
 OR THRU WOOD BUCK WITH 1-1/4" EMBED INTO
 MASONRY/CONCRETE

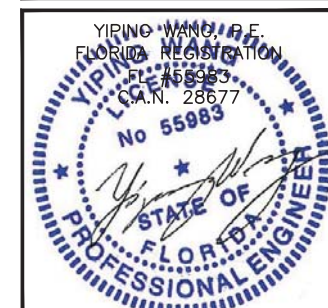
1/4" TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
 1/4" ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 1-1/4" EMBED INTO MASONRY/CONCRETE

TYPE "B": 1/4" DIA. TEKS/SELF-DRILLING SCREW, GRADE 5
 (Fu=100 KSI, Fy=65 KSI)
 INTO METAL STRUCTURES
 STEEL: 1/8" THK. MIN. (Fy=36 KSI)
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

MIN. EDGE DISTANCE:
 INTO CONCRETE = 2-1/2" MIN.
 INTO WOOD = 1" MIN.
 INTO METAL = 3/4" MIN.



FLORIDA APPROVAL:
 FL #21448.2



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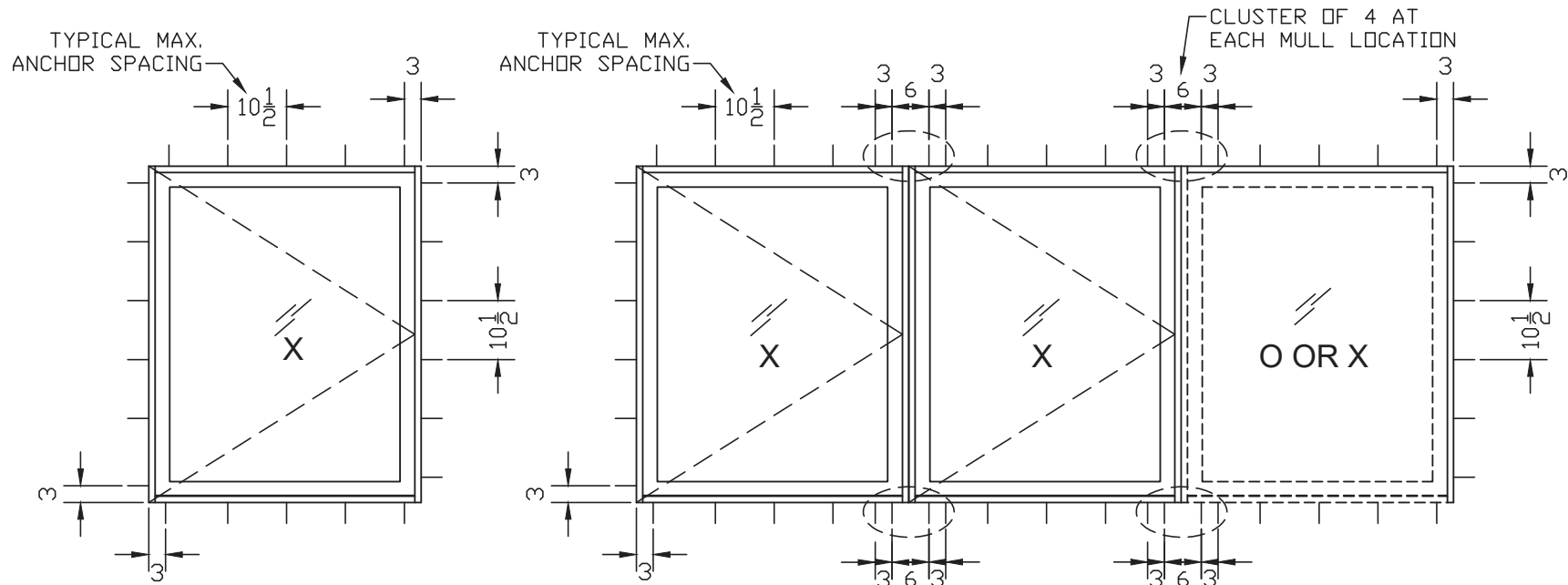
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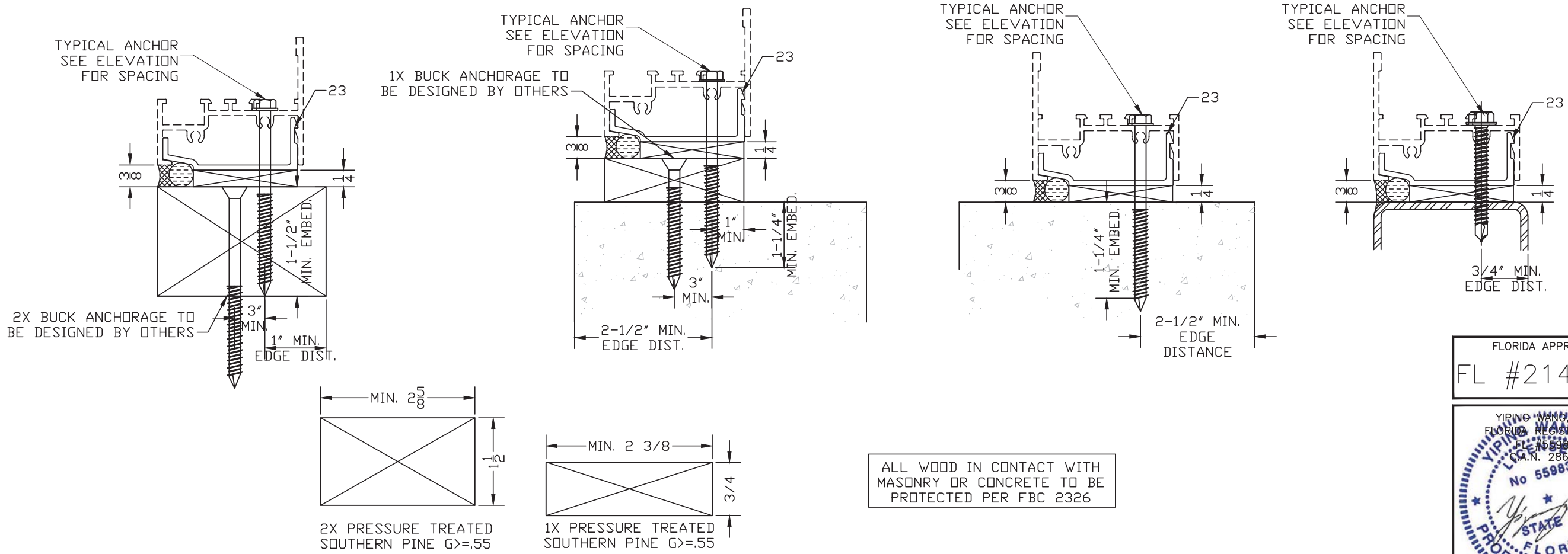
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August 16th, 2023



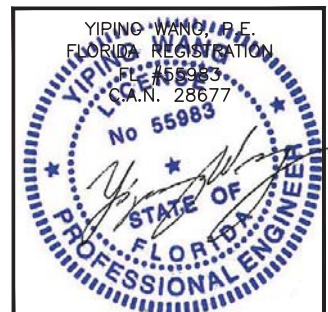
ANCHORAGE LAY-OUT WITH SHEAR CLIP

FOR ANCHOR TYPES, SEE SHEET 6



ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE TO BE PROTECTED PER FBC 2326

FLORIDA APPROVAL:
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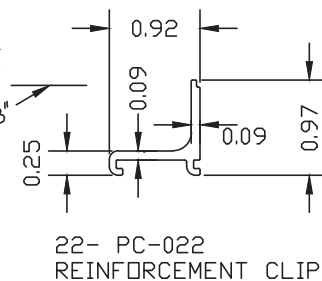
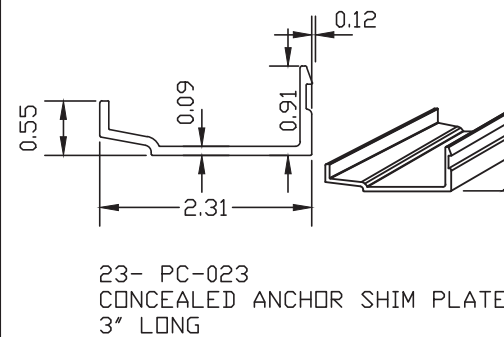
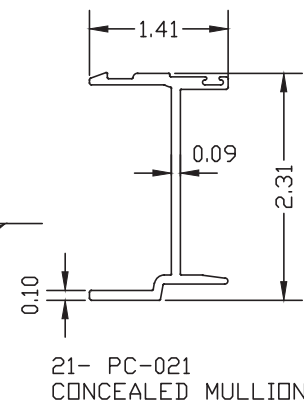
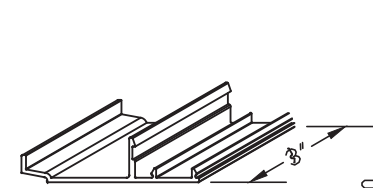
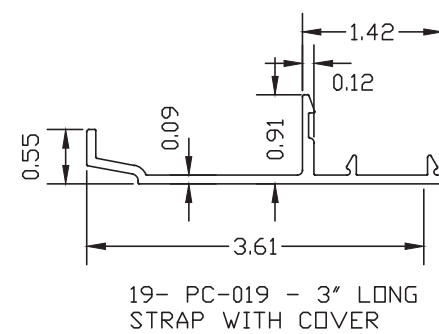
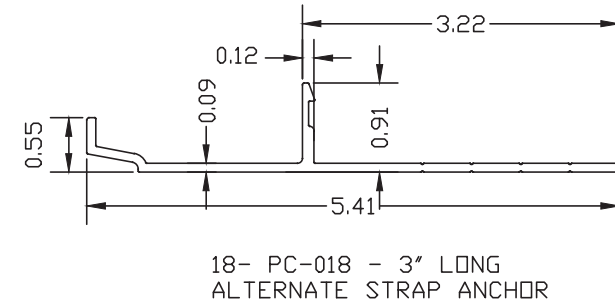
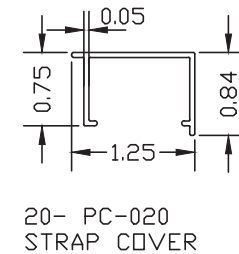
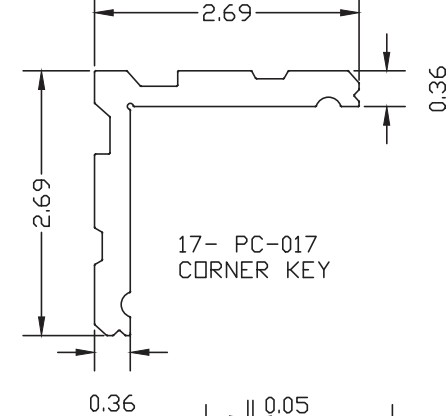
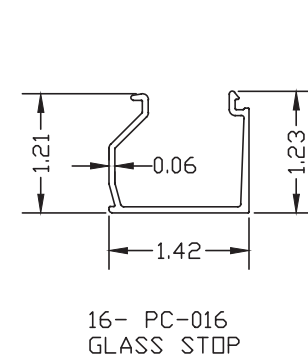
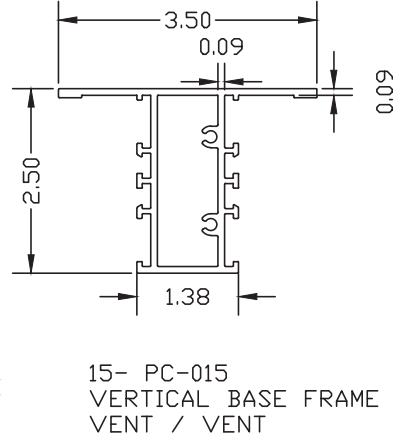
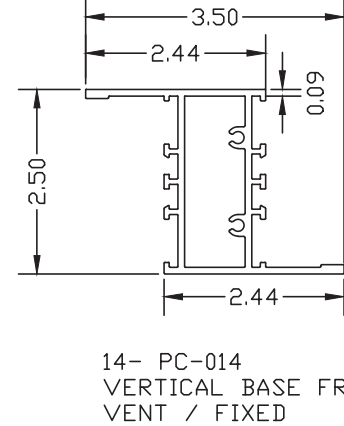
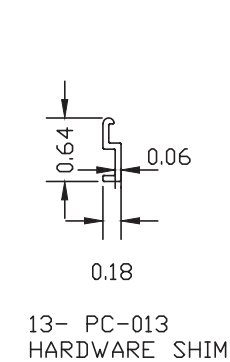
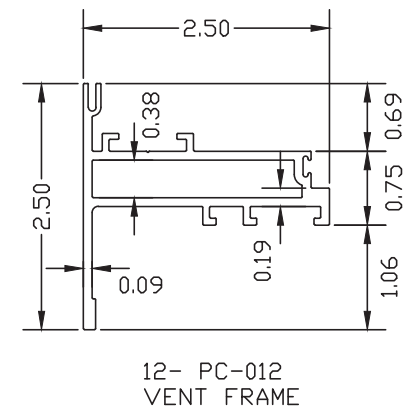
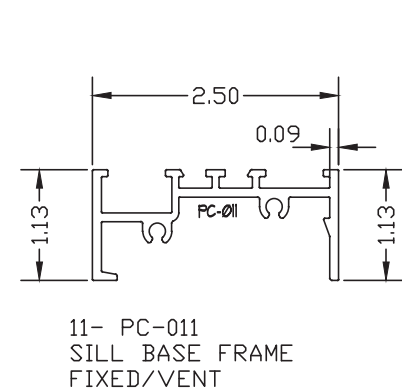
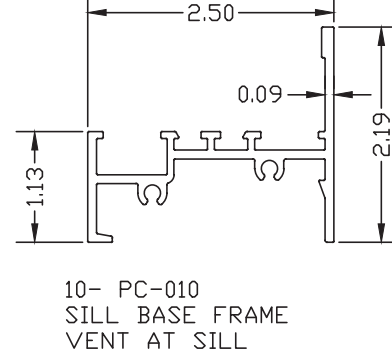
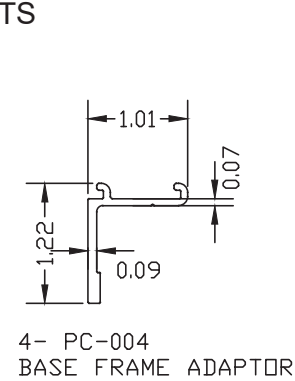
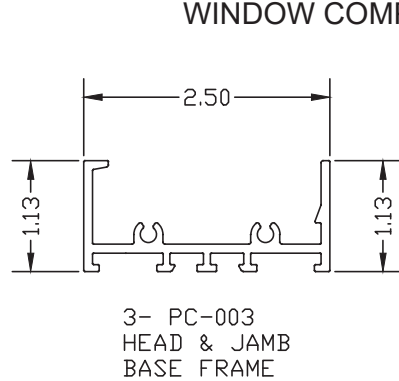
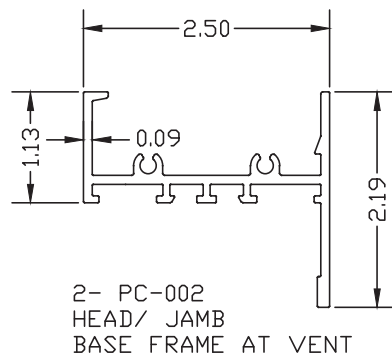
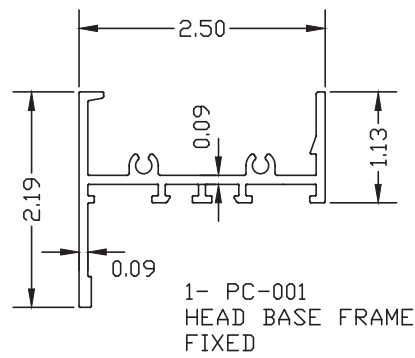
Rev.	Date	Drawn By	Description
03	08.11.2023	James	FBC 2023

Drawn Date: 08.11.2023

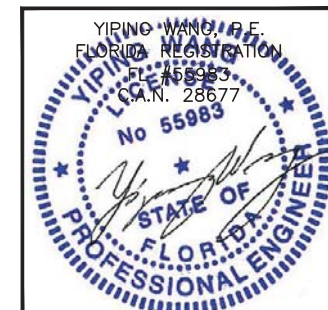
Scale: AS SHOWN

DRAWING NO. **AD16-43**

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FLORIDA APPROVAL:
FL #21448.2



COMPONENTS LIST

ITEM	PART#	DESCRIPTION	MATERIAL	SUPPLIER
1	PC-001	HEAD BASE FRAME (FIXED)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
2	PC-002	HEAD/JAMB BASE FRAME (OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
3	PC-003	HEAD AND JAMB BASE FRAME	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
4	PC-004	BASE FRAME ADAPTOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
10	PC-010	SILL BASE FRAME (OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
11	PC-011	SILL BASE FRAME (FIXED/OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
12	PC-012	CASEMENT WINDOW FRAME	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
13	PC-013	HARDWARE SHIM	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
14	PC-014	VERTICAL BASE FRAME (OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
15	PC-015	VERTICAL BASE FRAME (FIXED)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
16	PC-016	GLASS STOP	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
17	PC-017	CASEMENT CORNER KEY	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
18	PC-018	ALTERNATE STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
19	PC-019	STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
20	PC-020	STRAP ANCHOR COVER	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
21	PC-021	CONCEALED MULLION	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
22	PC-022	REINFORCEMENT CLIP	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
23	PC-023	CONCEALED STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
30	NR-A25	BUTT HINGE 1192 3-1/4"	NA	ADVANTAGE MANUFACTURING CORP.
31	NR-A22	CAMLOCK ASSEMBLY	BRONZE	BRONZECRAFT
32	NR-A26	MULTI-POINT LOCK	STEEL	ADVANTAGE MANUFACTURING CORP.
33	NR-A27	MULTI-POINT LOCK	STEEL	ROTO FRANK OF AMERICA
34	--	9/16" LAMINATED IMPACT GLASS	GLASS	VARIES
35	NR-A23	WEEP SLOT COVER	PLASTIC	NR ARCHITECTURAL PRODUCTS
36	NR-A24	VK2526 1/4" PVC SPACER	PVC	CAPITAL TAPE
37	--	GLAZING SEALANT DOW 983 II PART	SILICONE	DOWSIL
38	--	GLAZING SEALANT DOW 995	SILICONE	DOWSIL
39	NR-G20	PS 1126E POLY-WEDGE GASKET	70 DURO EPDM	TREMCO
40	NR-G21	EXT. WEATHERSEAL AP 150	EXTRUDED TAPE	SCHLEGEL
41	NR-G22	INT. WEATHERSEAL TLOK 150	POLYETHELENE	SCHLEGEL
42	NR-G23	VL 1026-107 WEEP VALVE	SILICONE	VERNAY
43	NR-G25	GLASS SETTING BLOCK TR-1365E	70 DURO EPDM	TREMCO
44	--	PERIMETER SEALANT DOW 795	SILICONE	DOWSIL
45	--	FRAME JOINT SEALANT	SILICONE	CRL BUILDING PRODUCTS
46	NR-F12	BASE FRAME FIXING SCREWS	STAINLESS STEEL	#10X1 PPH TSEK SCREW
47	NR-F13	ADAPTOR FIXING SCREW	STAINLESS STEEL	#12 X 3/4" PP TEK SREW
48	NR-EP1	1/16"-2-1/2"X5/16" END PLATE	6063-T6 ALUMINUM	NR ARCHITECTURAL PRODUCTS

MCY

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12781 Miramar Pkwy. Ste 301
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SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)

NR ARCHITECTURAL PRODUCTS
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

Rev.	Date	Drawn By	Description
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01	08/11/2023	James	AS SHOWN
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August 16th, 2023

Diagram illustrating the cross-section of a window frame assembly, showing the relationship between the glass, spacer, sealant, and frame components.

Labels and Dimensions:

- 1/4" HS GLASS
- 1/4" PVC SPACER
- CONTINUOUS STRIPS OF TRENCO PS1126E 70±5 DUROMETER EPDM INTERNAL POLY-WEDGE GASKET
- GLASS BITE 0.75
- 36
- 43
- AT SILL ONLY
- EXTERIOR
- INTERIOR
- GLASS STOP SNAP-FIT TO THE INTERIOR OF FRAM

Material Specifications:

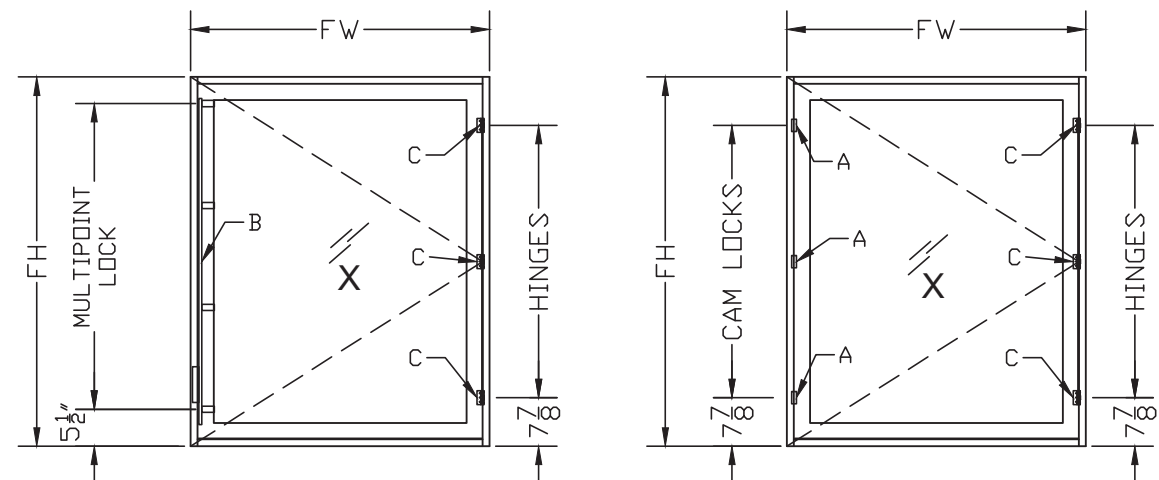
- G3- 0.06" PVB BY KURARAY AMERICA, INC.
- G4- 0.035" SG BY KURARAY AMERICA, INC.
- G5- 0.050" SAFLEX PVB BY EASTMAN CHEMICAL COMPANY

(1) VERNAY VL 1026-107 SILICONE
SLIT DUCKBILL WEEP VALVE WAS
PRESENT AT MIDSPAN OF EACH
SPECIMEN'S VENT BOTTOM.

(2) SPACED AT 4" FROM EACH END
AND (1) LOCATED AT MID SPAN
ALL WEEP HOLES UTILIZED A
INJECT MOLDED WEEP HOLE COVER
BY NR ARCHITECTURAL PRODUCTS

(3) 5/16"X1-3/8" WEEP HOLES

The diagram is a cross-sectional view of a specimen's vent bottom. It shows a horizontal structure with a central vertical section. On the left side, there is a vertical wall with a horizontal flange. A weep hole is shown in this wall, with a cover and a valve assembly. A line points from the text '(2) SPACED AT 4" FROM EACH END' to this weep hole. Another line points from the text '(3) 5/16"X1-3/8" WEEP HOLES' to the same weep hole. In the center, there is a vertical section with a horizontal flange. A weep hole is shown in this section, with a cover and a valve assembly. A line points from the text '(1) VERNAY VL 1026-107 SILICONE SLIT DUCKBILL WEEP VALVE WAS PRESENT AT MIDSPAN OF EACH SPECIMEN'S VENT BOTTOM.' to this weep hole. On the right side, there is a vertical wall with a horizontal flange. A weep hole is shown in this wall, with a cover and a valve assembly. A line points from the text '(2) SPACED AT 4" FROM EACH END' to this weep hole. The number '40' is written near the central vertical section, and the number '41' is written near the right vertical wall.



YIPING WANG, P.E.
FLORIDA REGISTRATION
F.E.#55983
C.M.N. 28677



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Drawn Date 08.11.2023						Scale AS SHOWN			
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