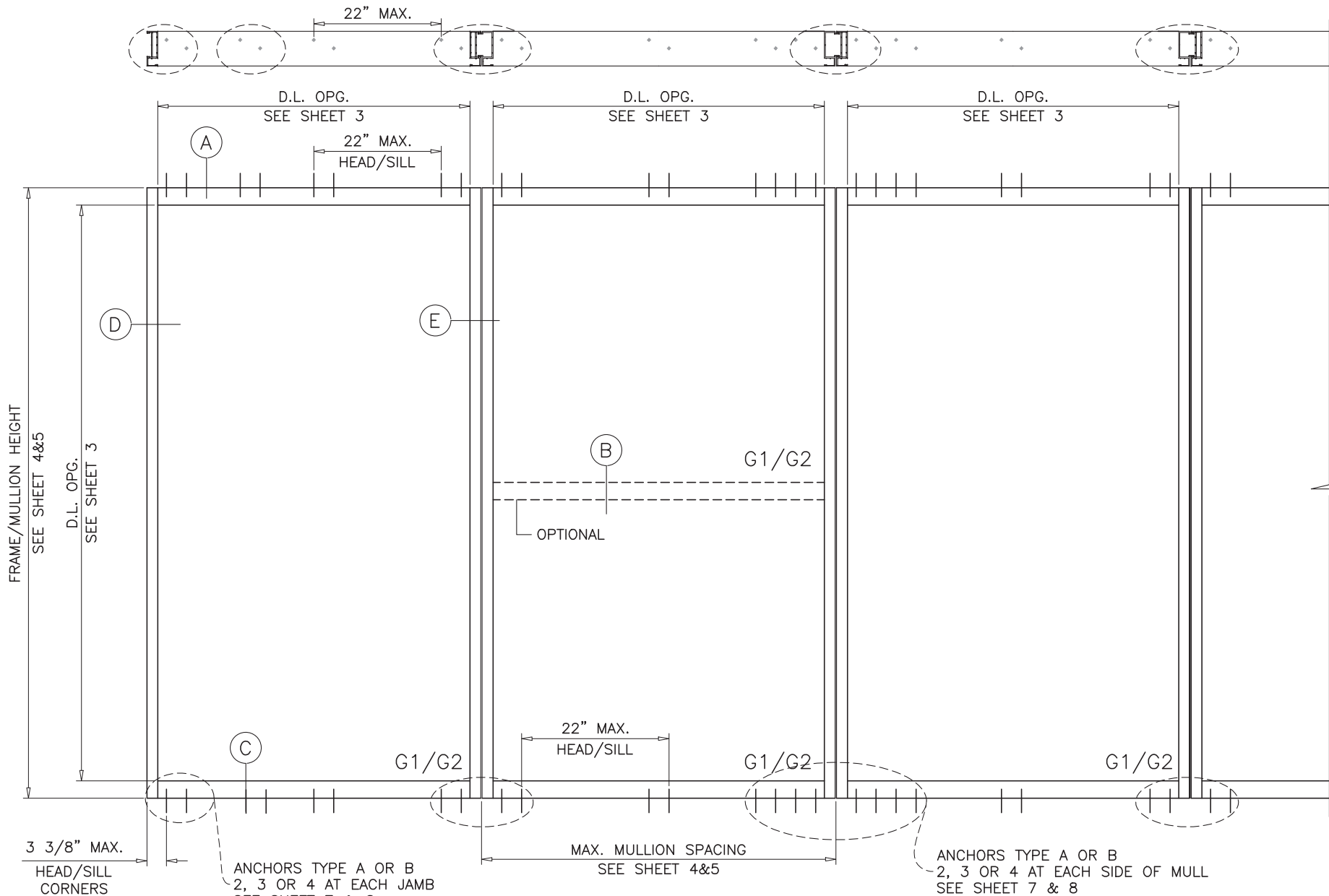




TYPICAL ELEVATIONS

NRAP SERIES 6000 FIXED WINDOW WALL SYSTEM

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT
SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH
THE REQUIREMENTS OF THE 8TH EDITION FBC (2023) INCLUDING HIGH
VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO
TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS,
ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL
DRESSING OR STUCCO.

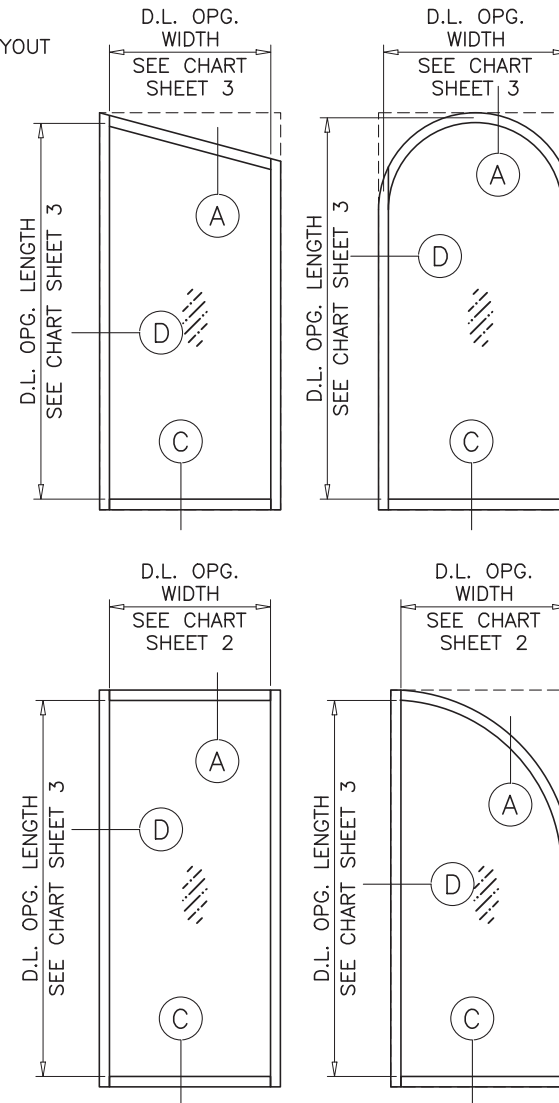
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS
ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN
DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS,
THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL
MEET THE REQUIREMENTS OF THE 8TH EDITION FBC (2023).

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.

HEAD/SILL
ANCHOR LAYOUT



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

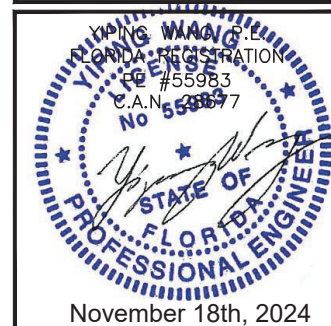
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED
ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE
USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 3 FOR DESIGN LOAD
CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND
HEIGHT USING CHARTS ON SHEET 4&5
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 7&8 SELECT ANCHOR OPTION
WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED
IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3
AND 4 SHALL APPLY TO ENTIRE SYSTEM.

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.



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NO.	DATE
R4	11.14.2024
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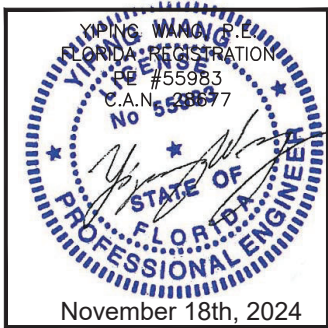
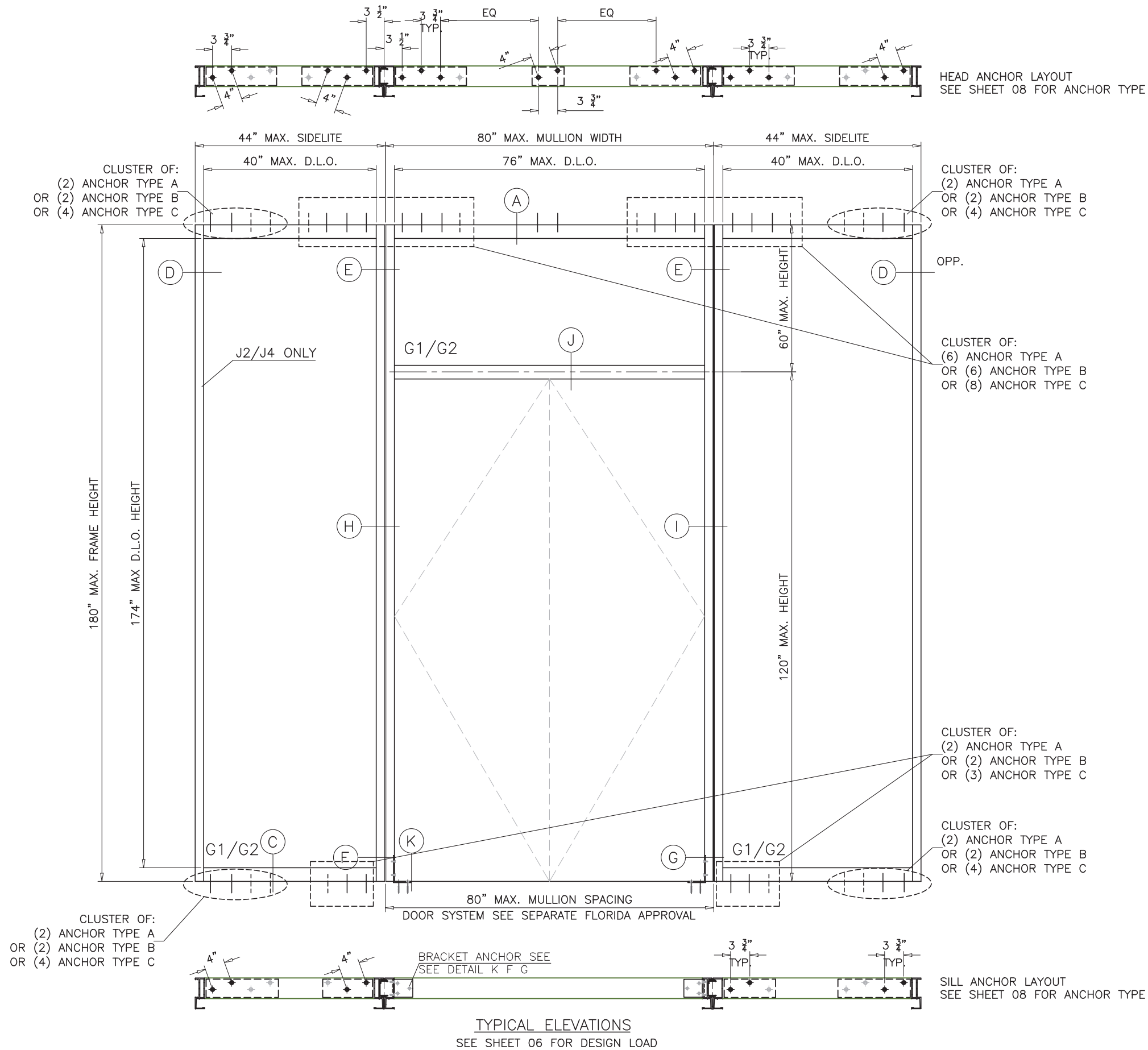
12781 Miramar Pkwy. STE. 301
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www.MCYEngineering.com mcy@mcyengineering.com

NRAP FIXED WINDOW WALL SYS. SERIES 6000 (L.M.I.)

NR ARCHITECTURAL PRODUCTS, INC.

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

FLORIDA APPROVAL FL #21446.1	
DATE	11.14.2024
SCALE	AS NOTED
DRAWN	JAMES
PROJECT	16-087
DRAWING NO. AD16-40	
SHEET 1 of 15	



REVISIONS	
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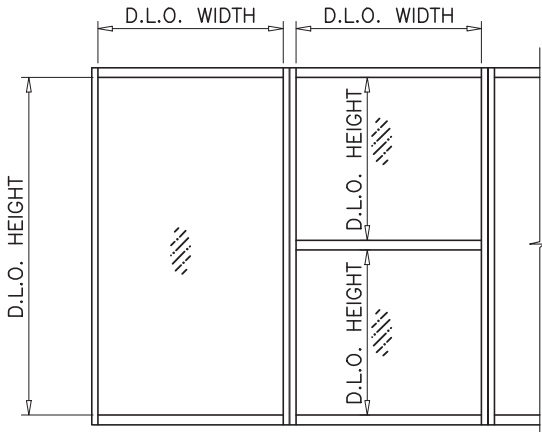
NR ARCHITECTURAL PRODUCTS, INC.
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FLORIDA APPROVAL FL #21446.1	
DATE	11.14.2024
SCALE	AS NOTED
DRAWN	JAMES
PROJECT	16-087

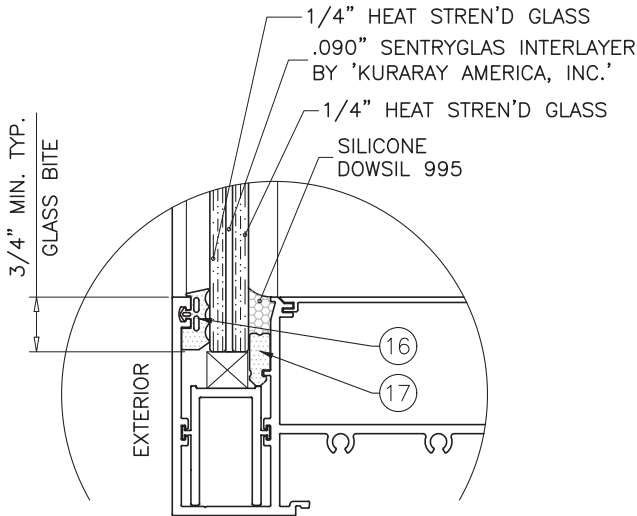
DRAWING NO.	AD16-40
SHEET	2 of 15

GLASS LOAD CAPACITY – PSF		
NOMINAL DIMS.		G1
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(–)
32–1/4"	78"	140.0
38–1/4"		140.0
44–1/4"		140.0
50–1/4"		140.0
56–1/4"		140.0
62–1/4"		137.5
68–1/4"		133.7
32–1/4"	84"	140.0
38–1/4"		140.0
44–1/4"		140.0
50–1/4"		140.0
56–1/4"		136.6
62–1/4"		132.5
68–1/4"		124.4
32–1/4"	90"	140.0
38–1/4"		140.0
44–1/4"		140.0
50–1/4"		139.0
56–1/4"		131.9
62–1/4"		122.9
68–1/4"		115.2
32–1/4"	96"	140.0
38–1/4"		140.0
44–1/4"		140.0
50–1/4"		131.2
56–1/4"		122.7
62–1/4"		113.7
32–1/4"	102"	140.0
38–1/4"		140.0
44–1/4"		139.5
50–1/4"		126.5
56–1/4"		114.7
62–1/4"		106.7
32–1/4"	108"	140.0
38–1/4"		140.0
44–1/4"		133.3
50–1/4"		119.4
56–1/4"		107.6
32–1/4"	113"	140.0
38–1/4"		140.0
44–1/4"		128.9
50–1/4"		114.4
56–1/4"		102.5
57–1/2"		100.9

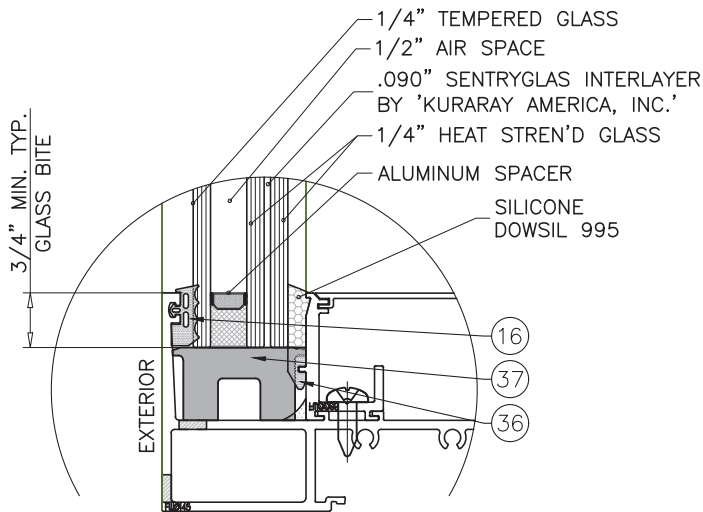
GLASS LOAD CAPACITY – PSF		
NOMINAL DIMS.		G1&G2
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(–)
32.0"	114.0"	110.0
38.0"		110.0
44.0"		110.0
50.0"		110.0
56.0"		110.0
62.0"		110.0
32.0"	120.0"	110.0
38.0"		110.0
44.0"		110.0
50.0"		110.0
56.0"		110.0
62.0"		110.0
32.0"	126.0"	110.0
38.0"		110.0
44.0"		110.0
50.0"		110.0
56.0"		110.0
62.0"		107.0
32.0"	132.0"	110.0
38.0"		110.0
44.0"		110.0
50.0"		110.0
56.0"		110.0
58.0"		110.0
32.0"	132.0"	110.0
38.0"		110.0
44.0"		110.0
50.0"		110.0
56.0"		110.0
58.0"		110.0
40.0"	172.0"	60.0



D.L.O. WIDTH = PANEL WIDTH – 3.75"
D.L.O. HEIGHT = PANEL HEIGHT – 6.0"



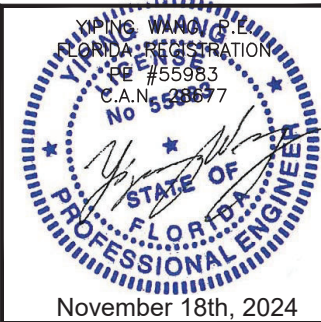
G1 GLASS TYPE 'G1'
9/16" OVERALL
LAMINATED GLASS



G2 GLASS TYPE 'G2'
1 5/16" OVERALL
INSULATED LAMINATED. GLASS

GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–16 (3 SEC. GUSTS).



REVISIONS	
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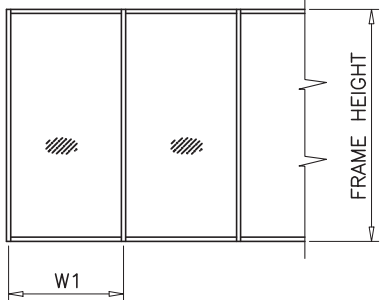
NRAP FIXED WINDOW WALL SYS. SERIES 6000 (L.M.I.)

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WEST PALM BEACH, FL. 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

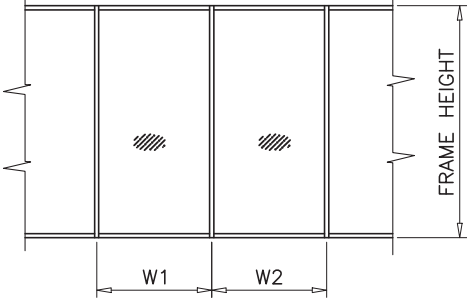
FLORIDA APPROVAL FL #21446.1	
DATE	11.14.2024
SCALE	AS NOTED
DRAWN	JAMES
PROJECT	16–087
DRAWING NO. AD16–40	
SHEET 3 of 15	

MULLION/JAMB LOAD CAPACITY – PSF							
MULLIONS WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		MULL 'M2'		JAMB 'J2' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36"	84"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	140.0	120.0	140.0
36"	90"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	140.0	120.0	140.0
36"	96"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	140.0	120.0	140.0
36"	102"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	140.0	120.0	140.0
36"	108"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	140.0	120.0	140.0
36"	114"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
36"	119"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	135.9	120.0	140.0
61"		100.0	100.0	120.0	134.0	120.0	140.0

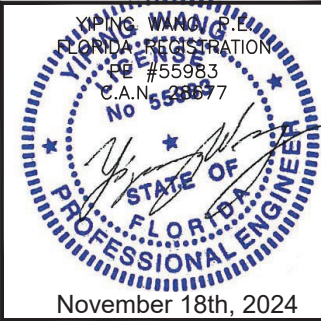
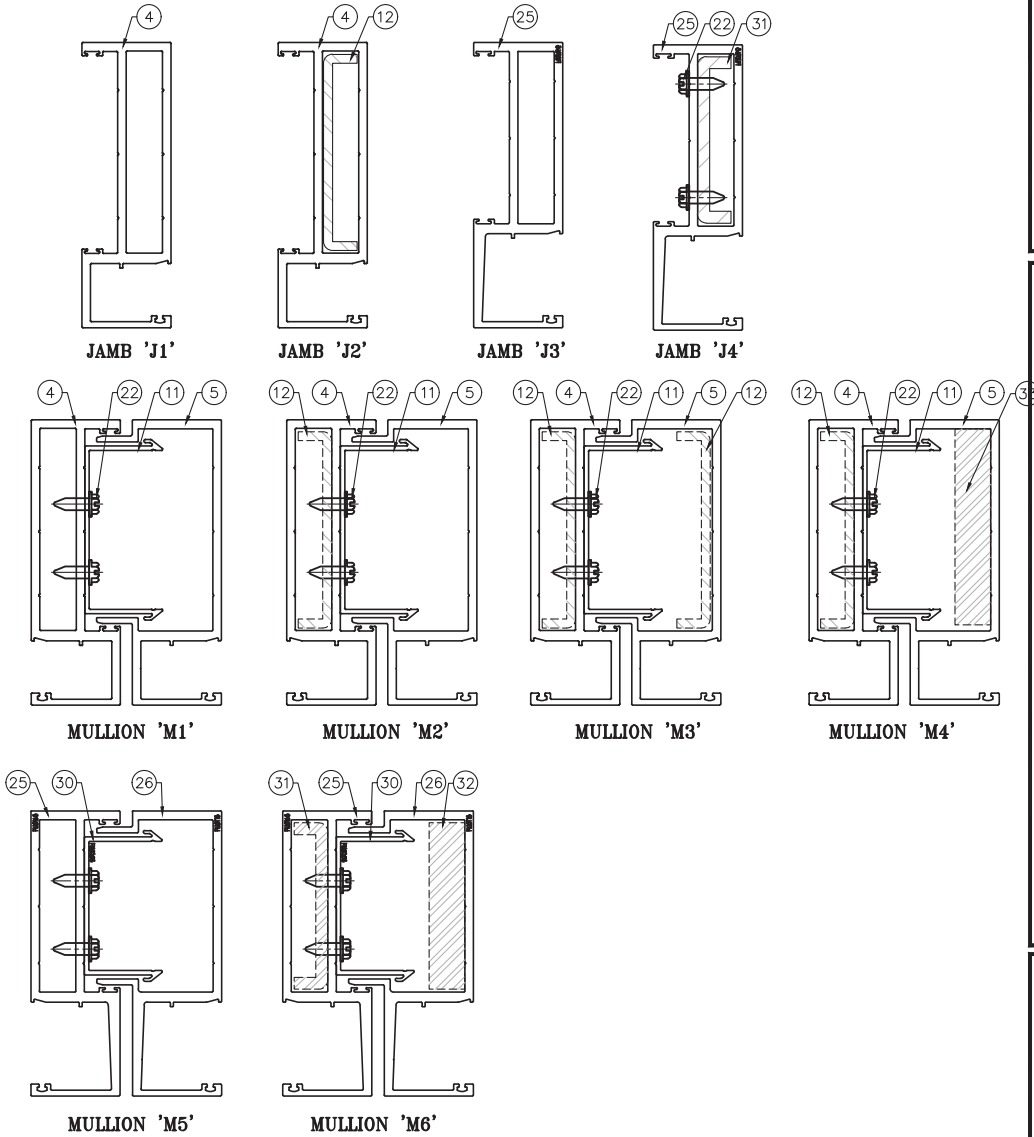
MULLION/JAMB LOAD CAPACITY – PSF							
MULLIONS WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1' 'J3' MULL 'M1' 'M5'		JAMB 'J2' MULL 'M4' 'M6'		JAMB 'J4'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36"	120"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	110.0	110.0
66"		65.0	65.0	110.0	110.0	110.0	110.0
72"		65.0	65.0	110.0	110.0	110.0	110.0
36"	126"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	110.0	110.0
66"		65.0	65.0	110.0	110.0	110.0	110.0
72"		65.0	65.0	110.0	110.0	110.0	110.0
36"	132"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	110.0	110.0
66"		65.0	65.0	110.0	110.0	110.0	110.0
72"		65.0	65.0	110.0	110.0	110.0	110.0
36"	138"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	110.0	110.0
62"		65.0	65.0	110.0	110.0	110.0	110.0
72"		65.0	65.0	110.0	110.0	110.0	110.0
36"	144"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	105.0	105.0
62"		65.0	65.0	110.0	110.0	102.0	102.0
72"		65.0	65.0	110.0	110.0	102.0	102.0



WIDTH (W) = W1
AT FRAME JAMB



WIDTH (W) = $\frac{W1 + W2}{2}$
AT FRAME MULLION



REVISIONS	
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NRAP FIXED WINDOW WALL SYS. SERIES 6000 (L.M.I.)

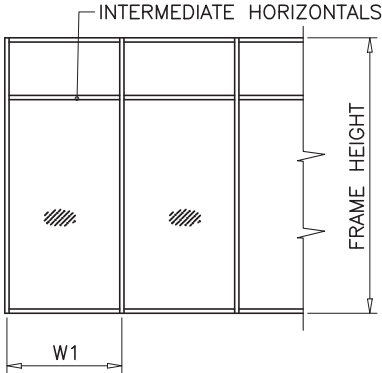
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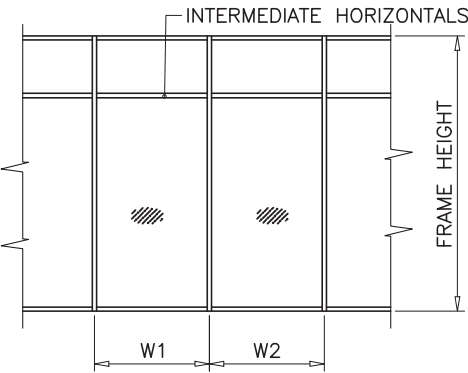
FLORIDA APPROVAL FL #21446.1	
DATE	11.14.2024
SCALE	AS NOTED
DRAWN	JAMES
PROJECT	16-087
DRAWING NO. AD16-40	
SHEET 4 of 15	

MULLION/JAMB LOAD CAPACITY – PSF							
MULLIONS WITH INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		MULL 'M2'		JAMB 'J2' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36"	84"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	140.0	120.0	140.0
36"	90"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	140.0	120.0	140.0
36"	96"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	140.0	120.0	140.0
36"	102"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	140.0	120.0	140.0
72"		100.0	100.0	120.0	138.4	120.0	140.0
36"	108"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	140.0	120.0	140.0
66"		100.0	100.0	120.0	137.5	120.0	140.0
72"		100.0	100.0	120.0	135.8	120.0	140.0
36"	114"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	140.0	120.0	140.0
60"		100.0	100.0	120.0	135.8	120.0	140.0
36"	119"	100.0	100.0	120.0	140.0	120.0	140.0
42"		100.0	100.0	120.0	140.0	120.0	140.0
48"		100.0	100.0	120.0	140.0	120.0	140.0
54"		100.0	100.0	120.0	138.5	120.0	140.0
60"		100.0	100.0	120.0	124.6	120.0	140.0
61"		100.0	100.0	120.0	122.6	120.0	140.0

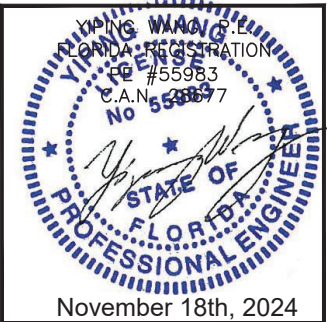
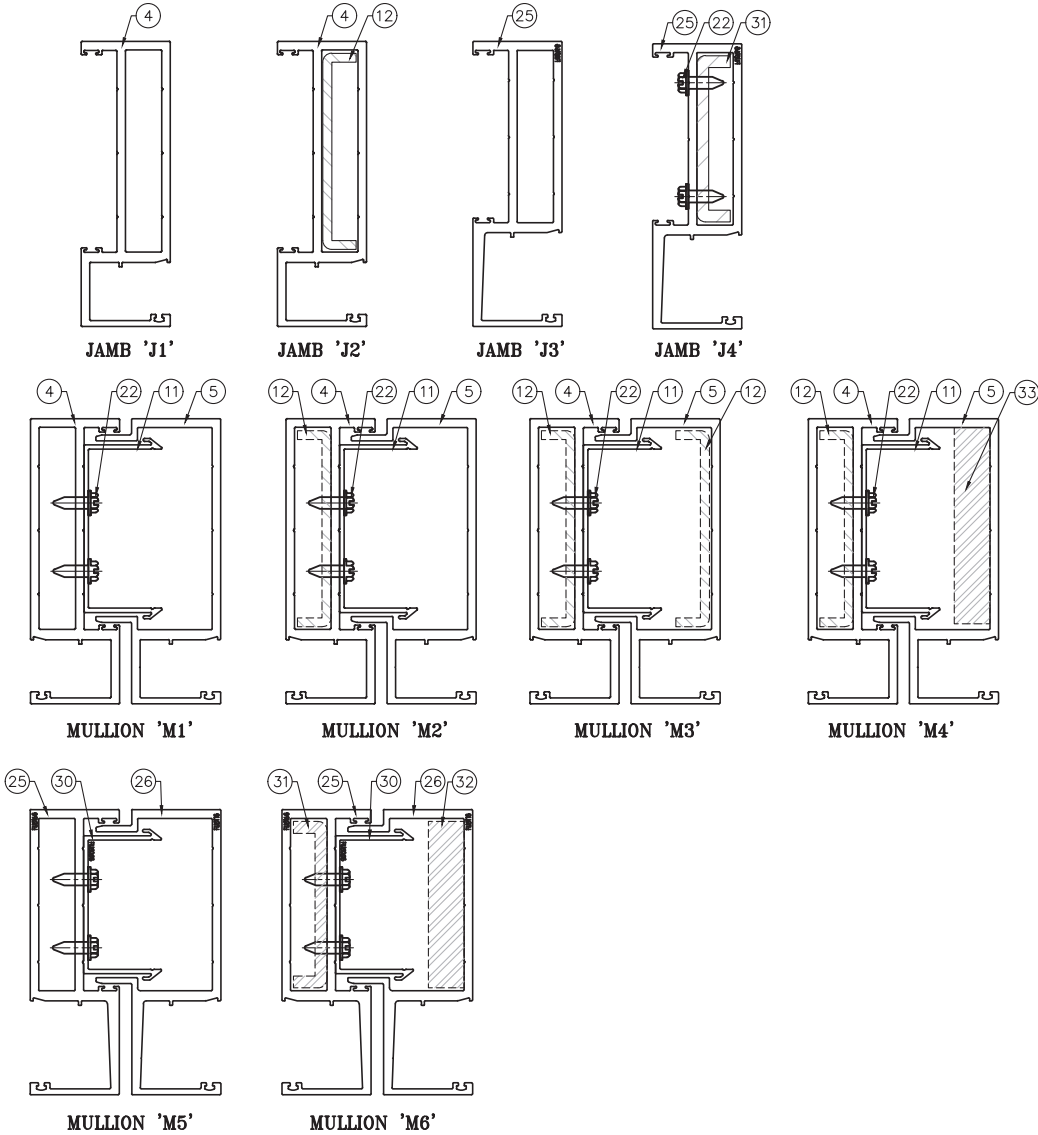
MULLION/JAMB LOAD CAPACITY – PSF							
MULLIONS WITH INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1' 'J3' MULL 'M1' 'M5'		JAMB 'J2' MULL 'M4' 'M6'		JAMB 'J4'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36"	120"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	110.0	110.0
66"		65.0	65.0	110.0	110.0	110.0	110.0
72"		65.0	65.0	110.0	110.0	110.0	110.0
36"	126"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	110.0	110.0
66"		65.0	65.0	110.0	110.0	110.0	110.0
72"		65.0	65.0	110.0	110.0	110.0	110.0
36"	132"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	110.0	110.0
66"		65.0	65.0	110.0	110.0	105.0	105.0
72"		65.0	65.0	110.0	110.0	105.0	105.0
36"	138"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	110.0	110.0
60"		65.0	65.0	110.0	110.0	106.0	106.0
66"		65.0	65.0	110.0	110.0	103.0	103.0
72"		65.0	65.0	110.0	110.0	103.0	103.0
36"	144"	65.0	65.0	110.0	110.0	110.0	110.0
42"		65.0	65.0	110.0	110.0	110.0	110.0
48"		65.0	65.0	110.0	110.0	110.0	110.0
54"		65.0	65.0	110.0	110.0	108.0	108.0
60"		65.0	65.0	110.0	110.0	97.0	97.0
66"		65.0	65.0	110.0	110.0	94.0	94.0
72"		65.0	65.0	110.0	110.0	94.0	94.0



WIDTH (W) = W1
AT FRAME JAMB



WIDTH (W) = $\frac{W1 + W2}{2}$
AT FRAME MULLION



REVISIONS	
NO.	DATE
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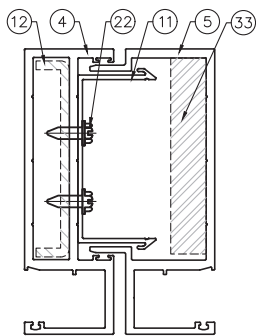
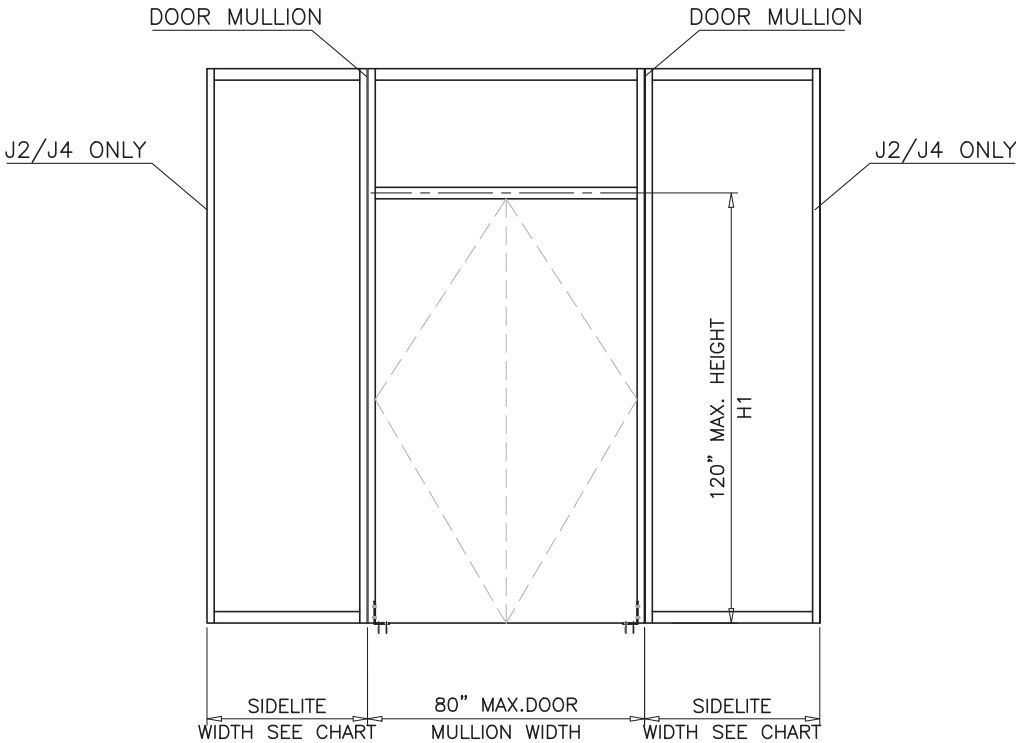
NRAP FIXED WINDOW WALL SYS. SERIES 6000 (L.M.I.)

NR ARCHITECTURAL PRODUCTS, INC.

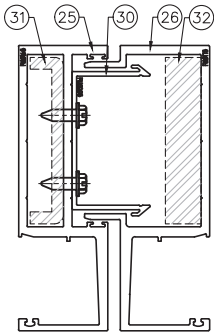
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WEST PALM BEACH, FL. 33407
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FLORIDA APPROVAL	
FL #21446.1	
DATE	11.14.2024
SCALE	AS NOTED
DRAWN	JAMES
PROJECT	16-087
DRAWING NO.	
AD16-40	
SHEET 5 of 15	

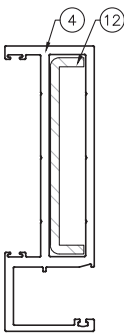
DOOR MULLION LOAD CAPACITY – PSF					
SIDELITE WIDTH	FRAME HEIGHT	DOOR MULLION WIDTH	HEIGHT H1	MULL 'M4' 'M6'	
IN	IN	IN	IN	EXT.(+)	INT.(–)
36"	144"	80.0	120.0	60.0	60.0
40"		80.0	120.0	60.0	60.0
44"		80.0	120.0	60.0	60.0
36"	150"	80.0	120.0	60.0	60.0
40"		80.0	120.0	60.0	60.0
44"		80.0	120.0	60.0	60.0
36"	156"	80.0	120.0	60.0	60.0
40"		80.0	120.0	60.0	60.0
44"		80.0	120.0	60.0	60.0
36"	162"	80.0	120.0	60.0	60.0
40"		80.0	120.0	60.0	60.0
44"		80.0	120.0	60.0	60.0
36"	168"	80.0	120.0	60.0	60.0
40"		80.0	120.0	60.0	60.0
44"		80.0	120.0	60.0	60.0
36"	174"	80.0	120.0	60.0	60.0
40"		80.0	120.0	60.0	60.0
44"		80.0	120.0	60.0	60.0
36"	180"	80.0	120.0	60.0	60.0
40"		80.0	120.0	60.0	60.0
44"		80.0	120.0	60.0	60.0



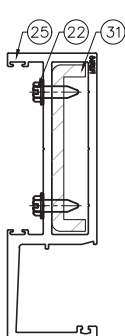
MULLION 'M4'



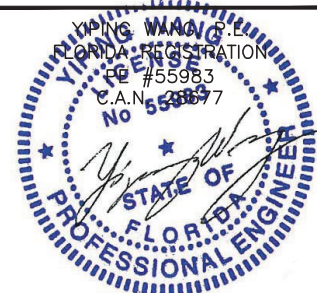
MULLION 'M6'



JAMB 'J2'



JAMB 'J4'



November 18th, 2024

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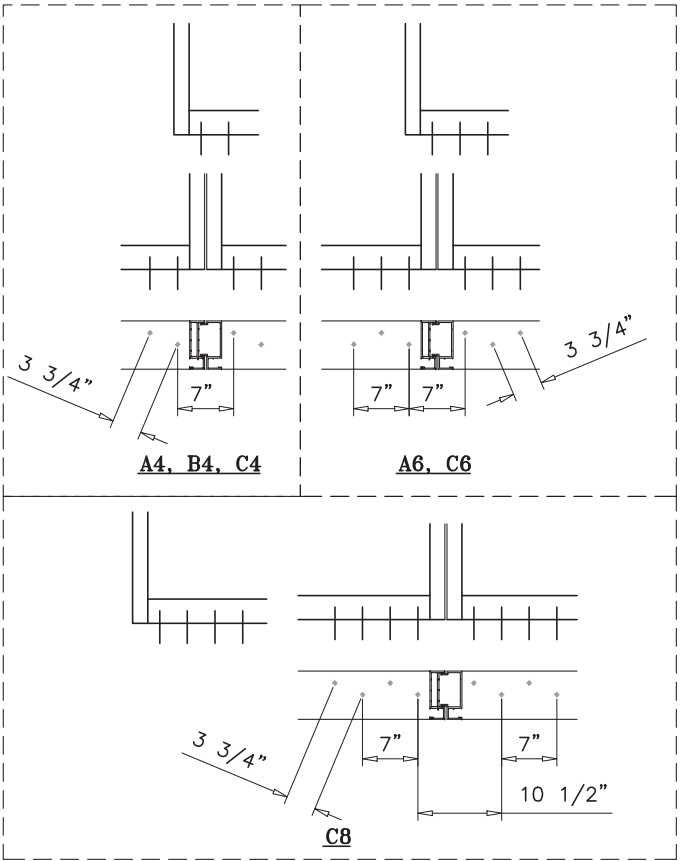
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FLORIDA APPROVAL FL #21446.1	
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PROJECT	16-087
DRAWING NO. AD16-40	
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ANCHOR LOAD CAPACITY – PSF MULLIONS WITH OR WITHOUT INTERMEDIATE HORIZONTALS EXT.(+) & INT.(–)							
NOMINAL DIMENSION		ANCHOR TYPE 'A'		ANCHOR TYPE 'C'			ANCHOR TYPE 'B'
		1/2" MAX. SHIM					3/8" MAX. SHIM
WIDTH (W)	FRAME HEIGHT	A4	A6	C4	C6	C8	B4
36"	84"	140.0	140.0	102.5	140.0	140.0	140.0
42"		140.0	140.0	131.8	131.8	140.0	140.0
48"		140.0	140.0	115.3	140.0	140.0	140.0
54"		140.0	140.0	102.5	136.6	140.0	140.0
60"		140.0	140.0	123.0	123.0	140.0	140.0
66"		140.0	140.0	111.8	139.7	139.7	140.0
72"		140.0	140.0	102.5	128.1	140.0	140.0
36"	90"	140.0	140.0	95.6	140.0	140.0	140.0
42"		140.0	140.0	123.0	123.0	140.0	140.0
48"		140.0	140.0	107.6	140.0	140.0	140.0
54"		140.0	140.0	95.6	127.5	140.0	140.0
60"		140.0	140.0	114.8	114.8	140.0	140.0
66"		140.0	140.0	104.3	130.4	130.4	140.0
72"		140.0	140.0	95.6	119.6	140.0	140.0
36"	96"	140.0	140.0	89.7	134.5	140.0	140.0
42"		140.0	140.0	115.3	115.3	140.0	140.0
48"		140.0	140.0	100.9	134.5	134.5	140.0
54"		140.0	140.0	89.7	119.6	140.0	140.0
60"		140.0	140.0	107.6	107.6	134.5	140.0
66"		140.0	140.0	97.8	122.3	122.3	140.0
72"		140.0	140.0	89.7	112.1	134.5	140.0
36"	102"	140.0	140.0	84.4	126.6	140.0	140.0
42"		140.0	140.0	108.5	108.5	140.0	140.0
48"		140.0	140.0	94.9	126.6	126.6	140.0
54"		140.0	140.0	84.4	112.5	140.0	140.0
60"		140.0	140.0	101.3	101.3	126.6	140.0
66"		140.0	140.0	92.1	115.1	115.1	140.0
72"		140.0	140.0	84.4	105.5	126.6	140.0
36"	108"	140.0	140.0	79.7	119.6	140.0	140.0
42"		140.0	140.0	102.5	102.5	136.6	140.0
48"		140.0	140.0	89.7	119.6	119.6	140.0
54"		140.0	140.0	79.7	106.3	132.8	140.0
60"		140.0	140.0	95.6	95.6	119.6	140.0
66"		140.0	140.0	86.9	108.7	108.7	140.0
72"		140.0	140.0	86.9	108.7	108.7	140.0
36"	114"	133.6	140.0	75.5	113.3	140.0	140.0
42"		140.0	140.0	97.1	97.1	129.4	140.0
48"		140.0	140.0	84.9	113.3	113.3	140.0
54"		133.6	140.0	75.5	100.7	125.8	140.0
60"		140.0	140.0	90.6	90.6	113.3	140.0
36"	119"	128.0	140.0	72.3	108.5	140.0	140.0
42"		140.0	140.0	93.0	93.0	124.0	140.0
48"		140.0	140.0	81.4	108.5	108.5	140.0
54"		128.0	140.0	72.3	96.4	120.6	140.0
60"		140.0	140.0	86.8	86.8	108.5	140.0
61"		140.0	140.0	85.4	85.4	106.7	140.0

ANCHOR LOAD CAPACITY – PSF MULLIONS WITH OR WITHOUT INTERMEDIATE HORIZONTALS EXT.(+) & INT.(–)									
NOMINAL DIMENSION		ANCHOR TYPE 'A'		ANCHOR TYPE 'C'			ANCHOR TYPE 'B'		
		1/2" MAX. SHIM						3/8" MAX. SHIM	
WIDTH (W)	FRAME HEIGHT	A4	A6	C4	C6	C8	B4		
36"	120"	110.0	110.0	71.7	107.6	110.0	110.0		
42"		110.0	110.0	92.2	92.2	110.0	110.0		
48"		110.0	110.0	80.7	107.6	107.6	110.0		
54"		110.0	110.0	71.7	95.6	110.0	110.0		
60"		110.0	110.0	86.1	86.1	107.6	110.0		
66"		110.0	110.0	78.3	97.8	97.8	110.0		
36"	126"	110.0	110.0	68.3	102.5	110.0	110.0		
42"		110.0	110.0	87.8	87.8	110.0	110.0		
48"		110.0	110.0	76.9	102.5	102.5	110.0		
54"		110.0	110.0	68.3	91.1	110.0	110.0		
60"		110.0	110.0	82.0	82.0	102.5	110.0		
66"		110.0	110.0	74.5	93.2	93.2	110.0		
36"	132"	110.0	110.0	65.2	97.8	110.0	110.0		
42"		110.0	110.0	83.8	83.8	110.0	110.0		
48"		110.0	110.0	73.4	97.8	97.8	110.0		
54"		110.0	110.0	65.2	86.9	108.7	110.0		
60"		110.0	110.0	78.3	78.3	97.8	110.0		
66"		110.0	110.0	71.1	88.9	88.9	110.0		
36"	138"	110.0	110.0	62.4	93.6	110.0	110.0		
42"		110.0	110.0	80.2	80.2	106.9	110.0		
48"		110.0	110.0	70.2	93.6	93.6	110.0		
54"		110.0	110.0	62.4	83.2	104.0	110.0		
60"		110.0	110.0	74.9	74.9	93.6	110.0		
62"		110.0	110.0	72.4	72.4	90.5	110.0		
36"	144"	105.8	110.0	59.8	89.7	110.0	110.0		
42"		110.0	110.0	76.9	76.9	102.5	110.0		
48"		110.0	110.0	67.3	89.7	89.7	110.0		
54"		105.8	110.0	59.8	79.7	99.6	110.0		
60"		110.0	110.0	71.7	71.7	89.7	110.0		
62"		110.0	110.0	69.4	69.4	86.8	110.0		

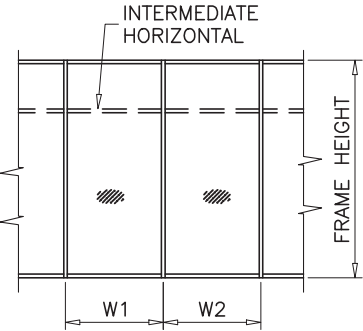


ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

- A4** = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
B4 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB & MULLION
C4 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB & MULLION

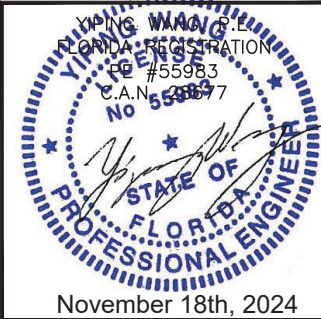
- A6** = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB & MULLION
C6 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB & MULLION

- C8** = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB & MULLION
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W1 + W2}{2}$ (MULLION)



REVISIONS	
NO.	DESCRIPTION
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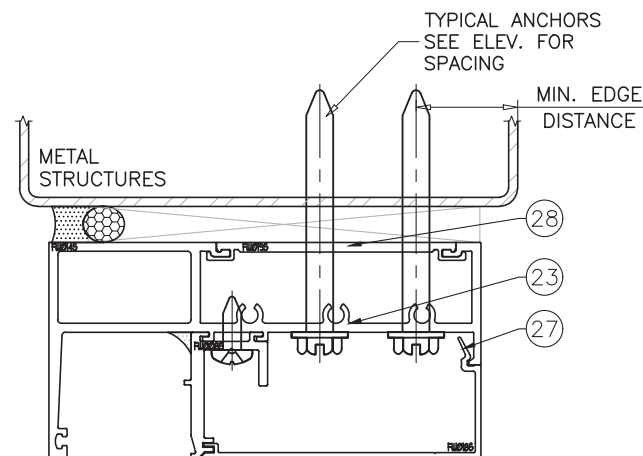
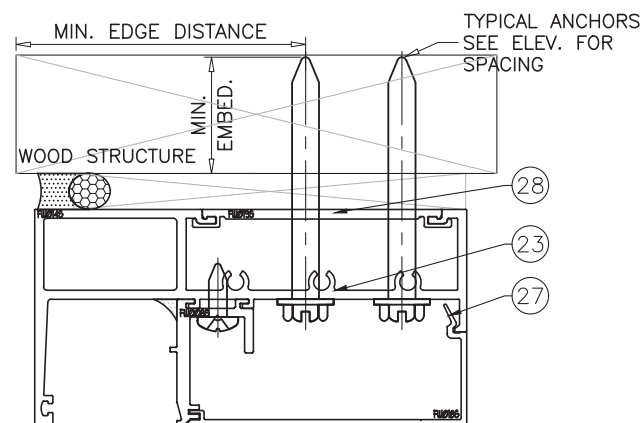
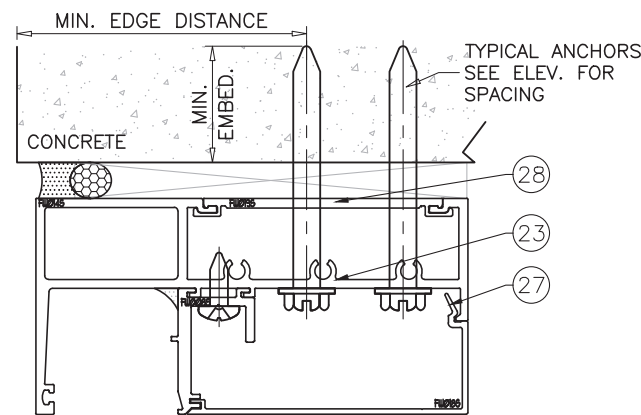
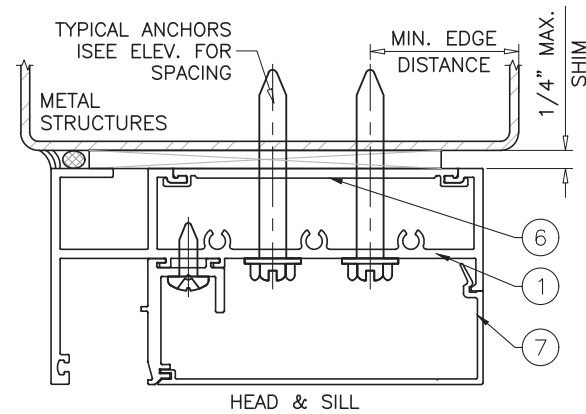
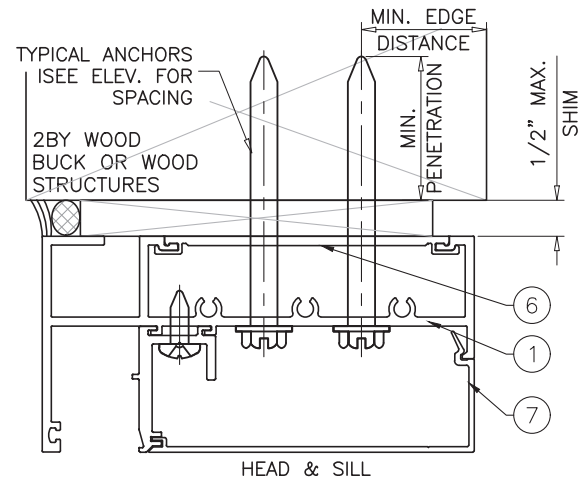
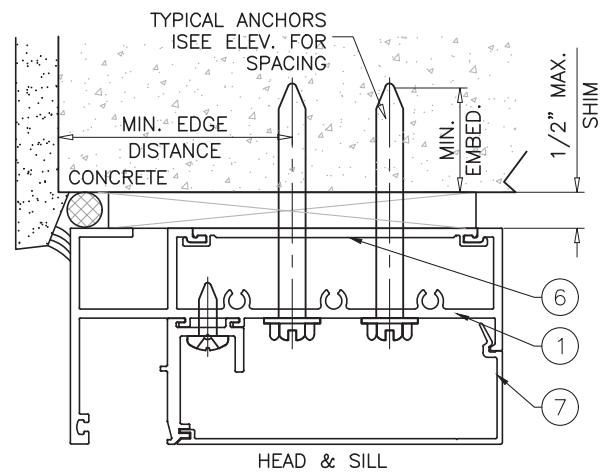
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NRAP FIXED WINDOW WALL SYS. SERIES 6000 (L.M.I.)

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FLORIDA APPROVAL FL #21446.1	
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SHEET 7 of 15	



WOOD BUCKS AND METAL STRUCTURES NOT BY N.R. WDW. MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' – 3/8" DIA. WEDGE-BOLT ANCHOR BY 'POWERS' (Fu = 100 KSI, Fy = 65 KSI)
 INTO WOOD STRUCTURES SG=0.55
 WITH 2-1/4" MIN. PENETRATION.

3/8" DIA. WEDGE-BOLT ANCHOR BY 'POWERS' (Fu = 100 KSI, Fy = 65 KSI)
 DIRECTLY INTO CONCRETE fc'=3000 PSI
 WITH 2" MIN. EMBED.

5/16" DIA. ULTRACON (Fu = 177 KSI, Fy=155 KSI)
 DIRECTLY INTO CONCRETE fc'=3000 PSI
 WITH 1-3/4" MIN. EMBED.

TYPE 'B' – 3/8" DIA. MACHINE BOLT GRADE 5 W/ WASHER & NUT (Fu = 120 KSI, Fy = 92 KSI)
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE 'C' – 5/16" DIA. ULTRACON (Fu = 177 KSI, Fy=155 KSI)
 INTO 2X WOOD BUCKS OR WOOD STRUCTURE (SG=0.55MIN.)
 WITH 1 1/2" MIN. PENETRATION.

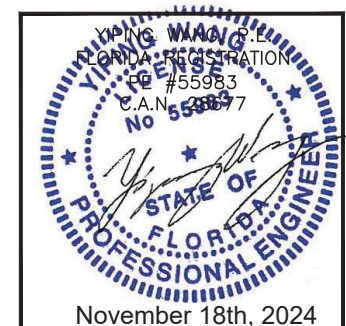
OR THRU 1X WOOD BUCK INTO CONCRETE
 WITH 1 1/4" MIN. EMBEDMENT.

ANCHOR EDGE DISTANCES

INTO CONCRETE = 3" MIN.
 INTO WOOD STRUCTURE = 1-1/2" MIN.
 INTO METAL STRUCTURE = 1" MIN.

SEALANTS:

ALL FRAME CORNERS AND JOINTS SEALED WITH
 DOW-795 OR TREMCO SPECTREM 2 SILICONE SEALANT.



NO.	DATE	DESCRIPTION
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SHEET	8 of 15

EXTERIOR
16 1/8" MAX.
MAX. SHIM

1 1/2" MAX. SHIM

CONCRETE

TYPICAL ANCHORS
SEE ELEV. FOR
SPACING

MIN. EMBED.

1BY WOOD
BUCKS

MIN. EDGE
DISTANCE

3"

3/4"

D.L. OPG.

3"

3/4"

3"

3/4"

3"

3/8" DIA. WEEPS
2 PER LITE
3" FROM ENDS

CONCRETE

MIN. EMBED.

TYPICAL ANCHORS
SEE ELEV. FOR
SPACING

6

1

21

7

8

41

16

2

19 5" LG.

21 3/8" EQUAL
FROM

17

7

8

16

41

7

18 5" LG.

9

3

6

LIMIT MAX. HORIZONTAL

HORIZ. SPAN	72"
	66"

(A)

(B)

(C)

2
19 5" LG.
21 3 EQUAL SPACING
7" FROM SHOLDER
17
B
7
8

©

Technical drawing showing three cross-sectional views (A, B, and C) of a door threshold assembly, likely for a fire-rated door. The drawing includes dimensions and callouts for various components.

Dimensions:

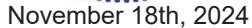
- Overall height: 21 7/16" MAX. SHIM
- Section A height: 3"
- Section B height: 3"
- Section C height: 3"
- Section A width: 3 3/4"
- Section B width: 3 3/4"
- Section C width: 3 3/4"
- Section A depth: 1 1/2" MAX. SHIM
- Section C depth: 1 1/2" MAX. SHIM
- Section A width: 3"
- Section B width: 3"
- Section C width: 3"
- Section A depth: 1 1/2" MAX. SHIM
- Section C depth: 1 1/2" MAX. SHIM

Callouts and Components:

- Section A:**
 - 28: Top flange
 - 23: Gasket
 - 21: 3 EQUAL SPACING 7/8" FROM SHOLDER
 - 8: Gasket
 - 27: Gasket
 - 36: Gasket
 - 41: Gasket
 - 16: Gasket
- Section B:**
 - 24: Top flange
 - 38: 8" LG.
 - 21: 3 EQUAL SPACING 7/8" FROM SHOLDER
 - 8: Gasket
 - 27: Gasket
- Section C:**
 - 16: Gasket
 - 41: Gasket
 - 27: Gasket
 - 37: 8" LG.
 - 36: Gasket
 - 8: Gasket
 - 21: 3 EQUAL SPACING 7/8" FROM SHOLDER
 - 23: Gasket
 - 28: Top flange

Other Labels:

- TYPICAL ANCHORS SEE ELEV. FOR SPACING
- MIN. EMBED.
- CONCRETE
- 1BY WOOD BUCKS
- MIN. EDGE DISTANCE
- MIN. EMBED.
- 1 1/2" MAX. SHIM
- D.L.O.



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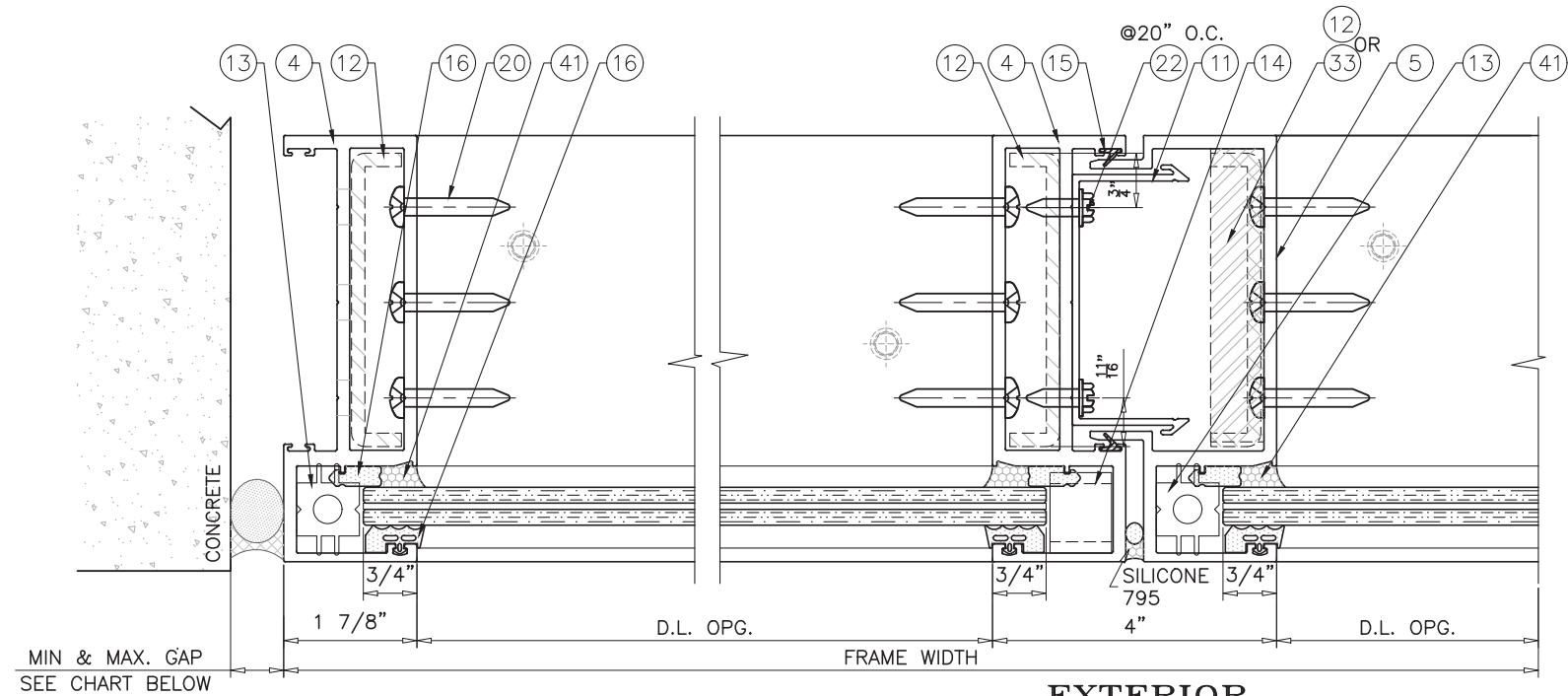
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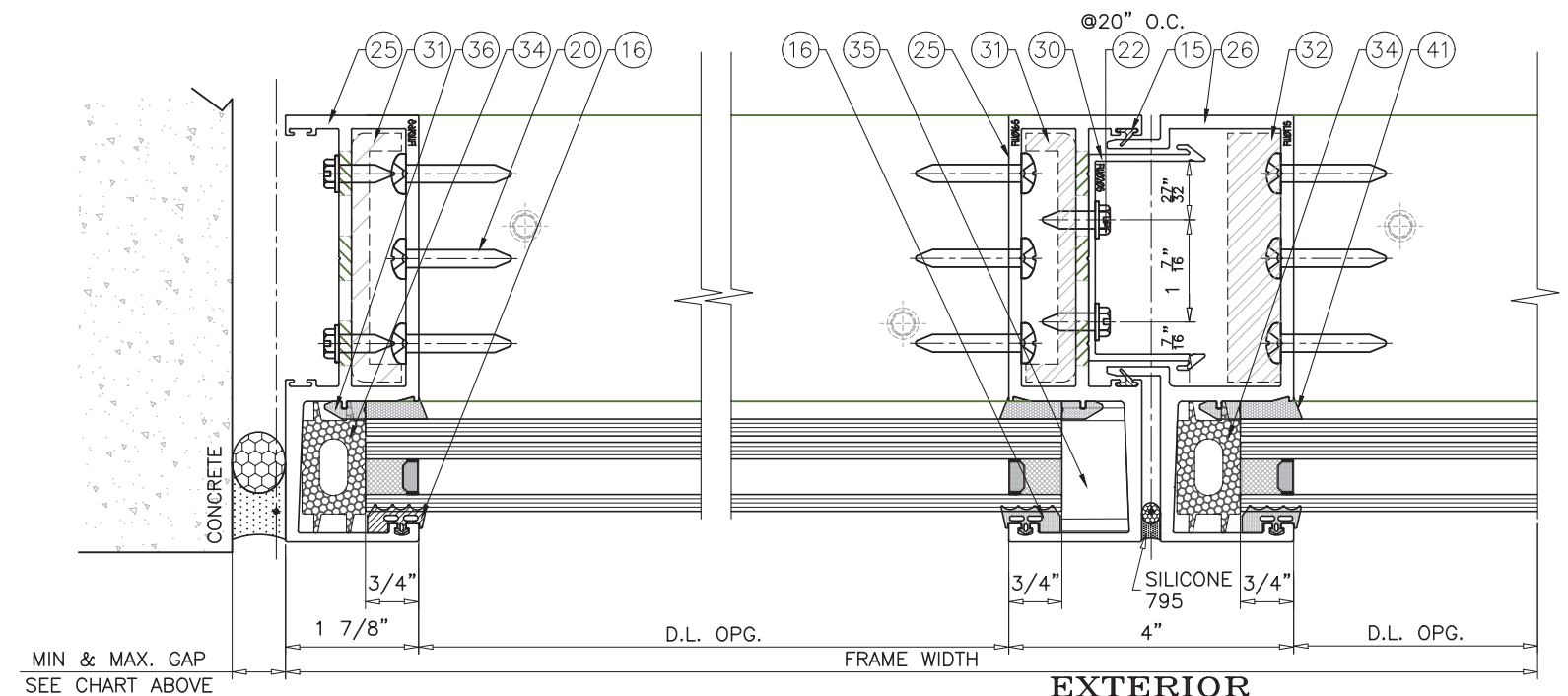
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(D) W/ OR W/O REINF.
SEE SHEET 05 TO 06.

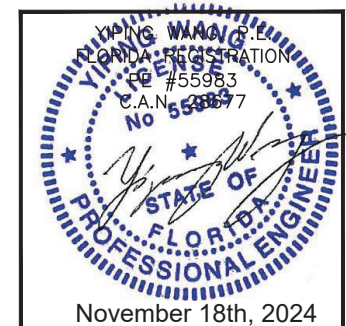
(E) W/ OR W/O REINF.
SEE SHEET 05 TO 06.

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
114"	3/8"	1/2"
119"	1/2"	3/4"



(D) W/ OR W/O REINF.
SEE SHEET 05 TO 06.

(E) W/ OR W/O REINF.
SEE SHEET 05 TO 06.



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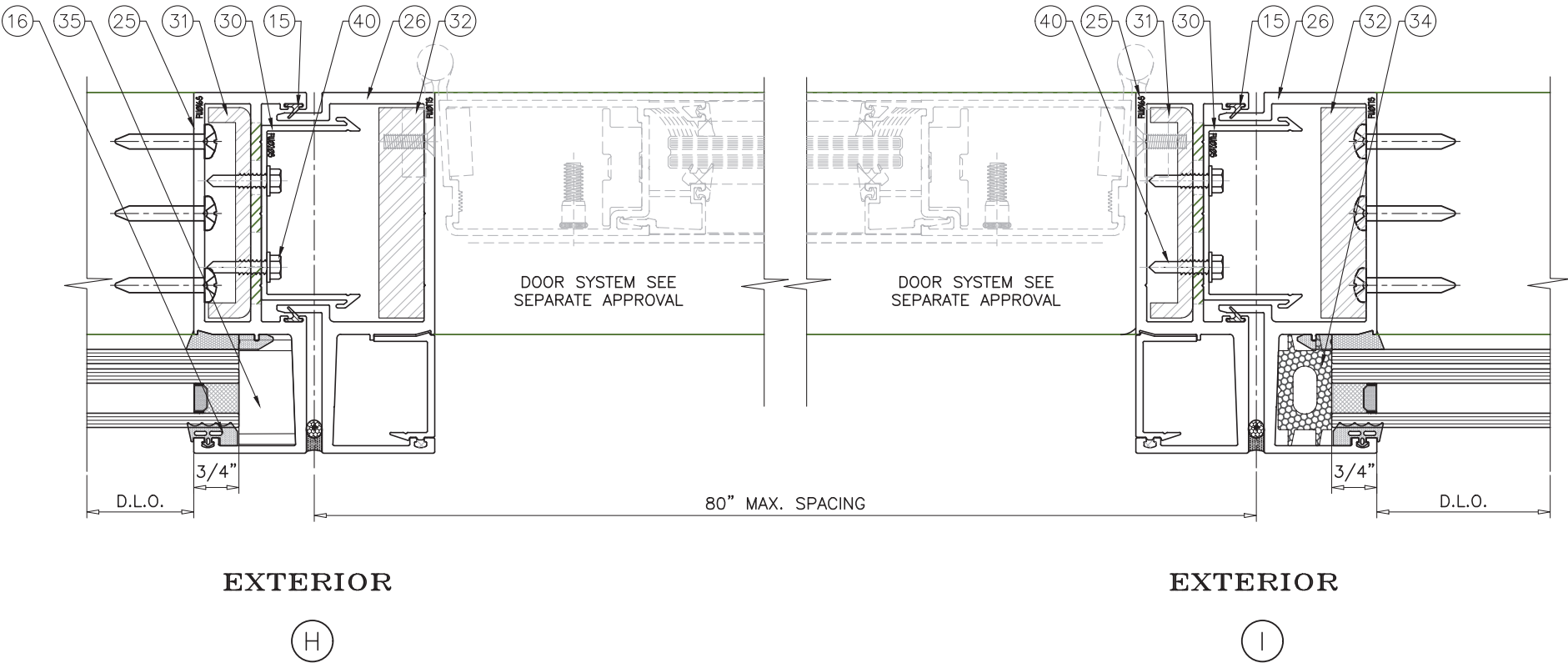
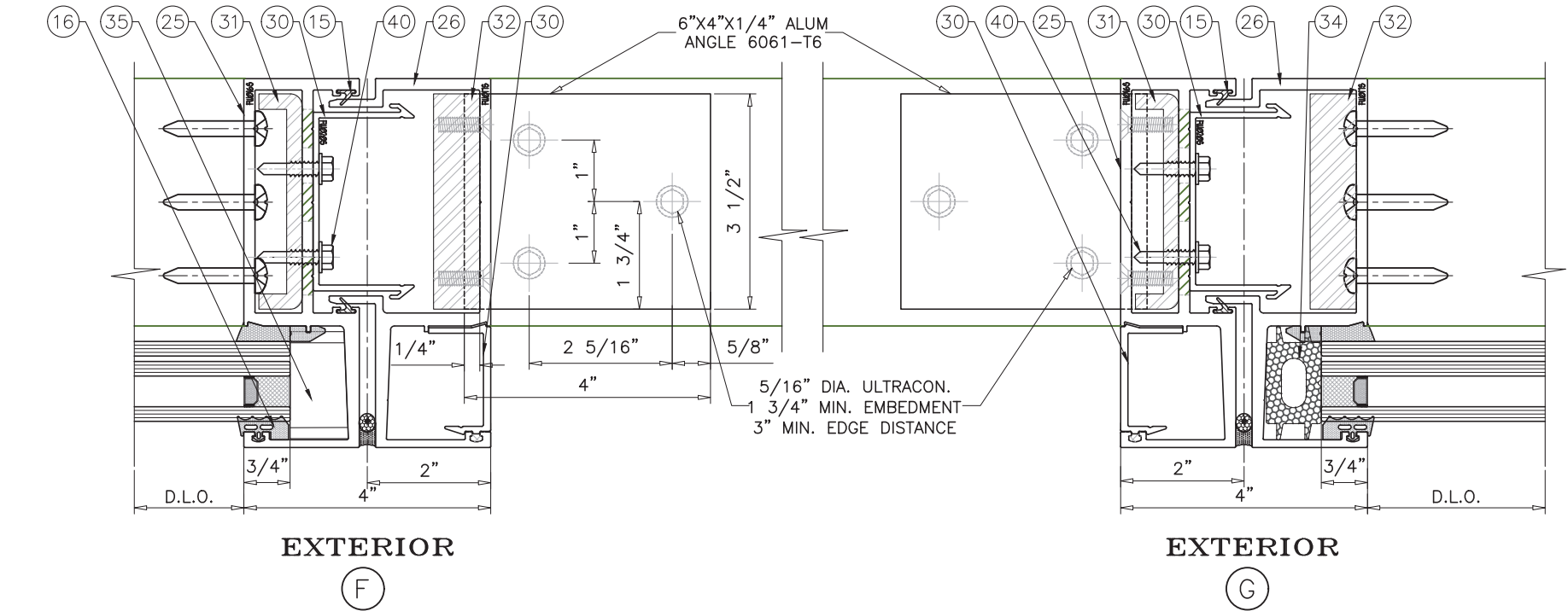
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NOTE:
INSULATED LAMINATED GLASS SHOWN,
LAMINATED GLASS SEE SHEET 10
FOR MULLION DETAIL, SEE SHEET 06
FOR DOOR MULLION DESIGN LOAD.



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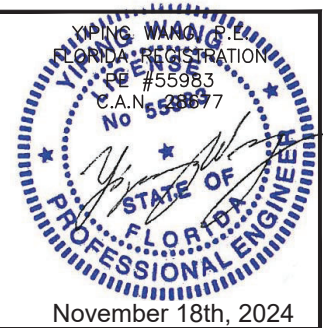
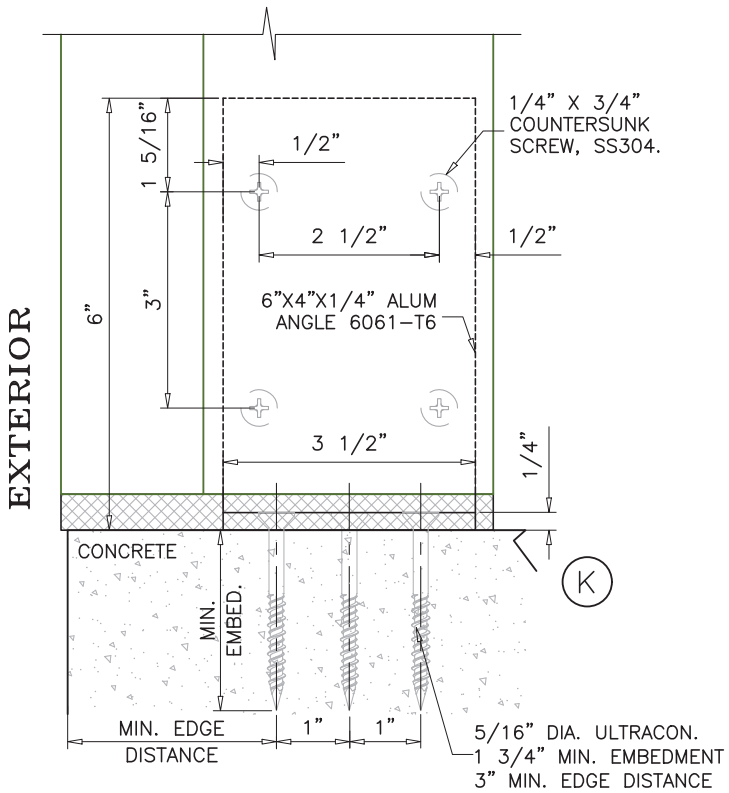
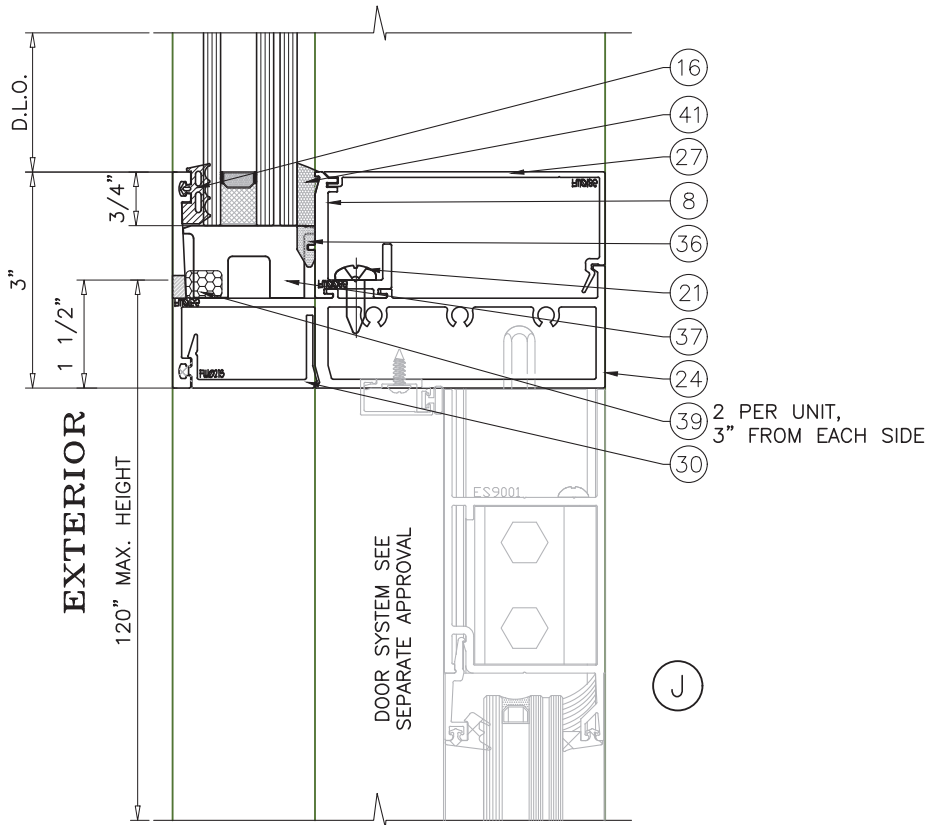
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NOTE:
INSULATED LAMINATED GLASS SHOWN,
LAMINATED GLASS SEE SHEET 09
FOR HORIZONTAL DETAIL.



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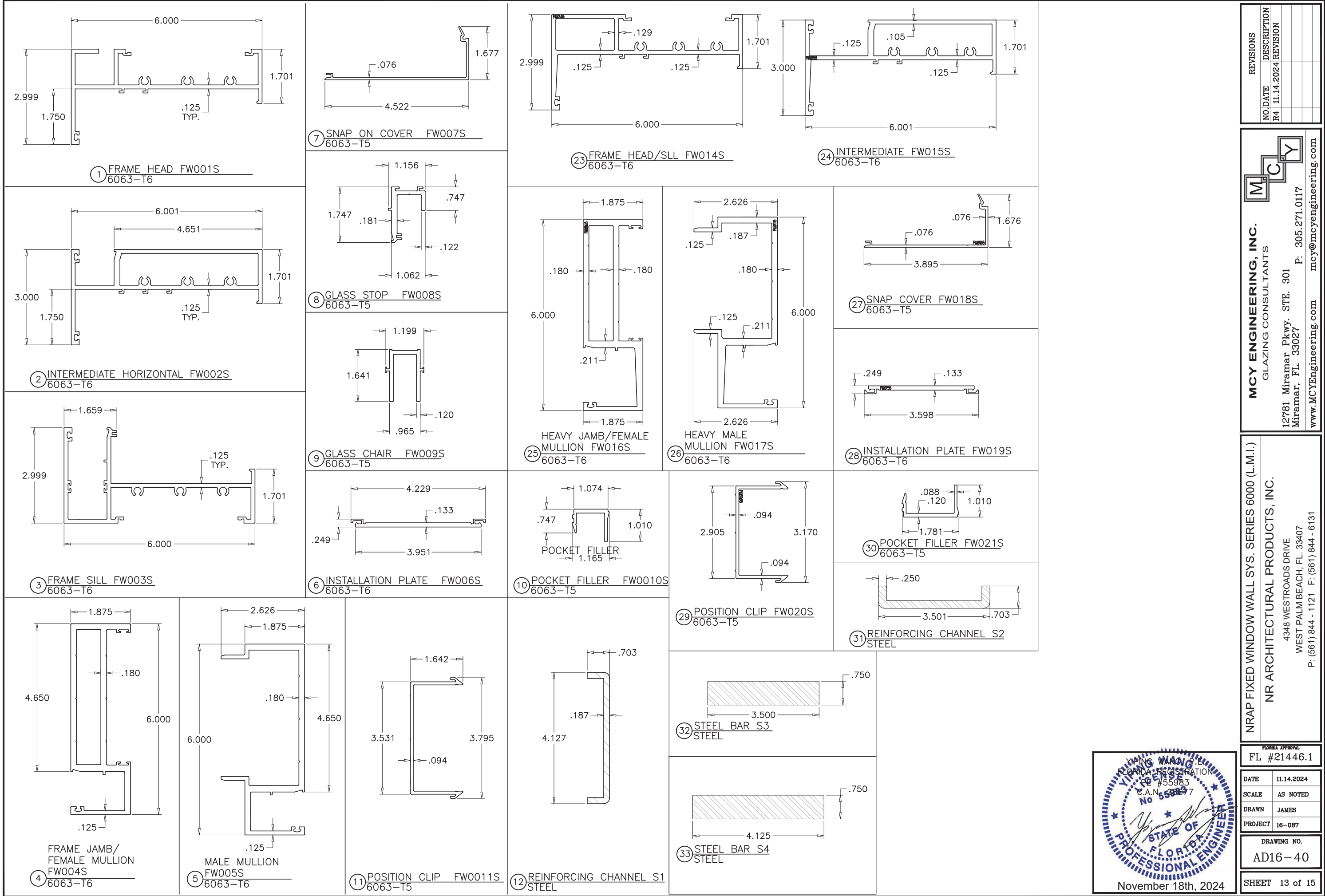
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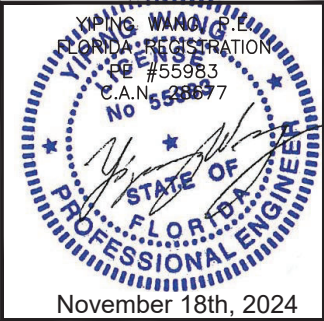
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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	FW001S	AS REQD.	FRAME HEAD	6063-T6	—
2	FW002S	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	—
3	FW003S	AS REQD.	FRAME SILL	6063-T6	—
4	FW004S	AS REQD.	FRAME JAMB/ FEMALE MULLION	6063-T6	—
5	FW005S	AS REQD.	MALE MULLION	6063-T6	—
6	FW006S	AS REQD.	INSTALLATION PLATE	6063-T6	—
7	FW007S	AS REQD.	SNAP ON COVER	6063-T5	—
8	FW008S	AS REQD.	GLASS STOP	6063-T5	—
9	FW009S	2/ LITE	GLASS CHAIR, 4” LONG	6063-T5	—
10	FW010S	AS REQD.	POCKET FILLER	6063-T5	—
11	FW011S	3/ MULL	POSITION CLIPS, 6” LONG AT 1/3 POINTS	6063-T5	—
12	SI	AS REQD.	REINFORCING CHANNEL	STEEL	—
13	NR-G1	AS REQD.	SIDE BLOCKS (TR-1456E)	EPDM	60 DURO EPDM
14	NR-G2	AS REQD.	W BLOCKS (TR-3508E)	EPDM	70 DURO EPDM
15	NR-G3	AS REQD.	WEATHER FIN (TR-1311E)	EPDM	70 DURO EPDM
16	NR-G4	AS REQD.	CUSTOM PRE-SET GASKET (TR-13915E)	EPDM	60 DURO EPDM
17	NR-G5	AS REQD.	FRICTION FIT SPACER (TR-13885W)	EPDM	70 DURO EPDM
18	NR-G6	AS REQD.	SETTING BLOCK (1/2” X 9/16” X 4” LONG) (TR-1990E)	EPDM	85 DURO EPDM
19	NR-G7	AS REQD.	SETTING BLOCK (3/8” X 9/16” X 4” LONG) (TR-1008S)	EPDM	85 DURO EPDM
20	NR-F1	3/ CORNER	FRAME ASS’Y SCREWS (1/4” X 1-1/2” PHP SELF TAPPING)	ST/ST	—
21	NR-F2	AS REQD.	GLASS STOP SCREWS (1/4” X 3/4” PHP SELF TAPPING)	ST/ST	AT 1” FROM ENDS & 18” O.C.
22	NR-F3	2/ CLIP	POSITION CLIP SCREWS (1/4” X 1” HEX H SELF DRILLING)	ST/ST	—
23	FW014S	AS REQD.	FRAME HEAD	6063-T6	—
24	FW015S	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	—
25	FW016S	AS REQD.	HEAVY JAMB/ FEMALE MULLION	6063-T6	—
26	FW017S	AS REQD.	HEAVY MALE MULLION	6063-T6	—
27	FW018S	AS REQD.	SNAP ON COVER	6063-T5	—
28	FW019S	AS REQD.	INSTALLATION PLATE	6063-T6	—
29	FW020S	AS REQD.	POSITION CLIPS	6063-T5	—
30	FW021S	AS REQD.	POCKET FILLER	6063-T5	—
31	S2	AS REQD.	REINFORCING CHANNEL	STEEL	—
32	S3	AS REQD.	STEEL BAR	STEEL	—
33	S4	AS REQD.	STEEL BAR	STEEL	—
34	NR-G18	AS REQD.	SIDE BLOCK	EPDM	60 DURO EPDM
35	NR-G19	AS REQD.	W BLOCK	EPDM	70 DURO EPDM
36	NR-G20	AS REQD.	FRICTION FIT SPACER	EPDM	70 DURO EPDM
37	NR-G21	AS REQD.	1 27/32” X 1” X 4” LONG SETTING BLOCK	EPDM	85 DURO EPDM
38	NR-G22	AS REQD.	1 27/32” X 3/8” X 4” LONG SETTING BLOCK	EPDM	85 DURO EPDM
39	NR-SB01	AS REQD.	1/2” X 1/2” X 2” LONG OPEN CELL SPONGE BAR	—	—
40	NR-FS3	AS REQD.	1/4” X 1” HEX K S/S SELF-DRILLING SCREW	STEEL	—
41	—	AS REQD.	STRUCTURAL SILICONE DOW 995	SILICONE	—



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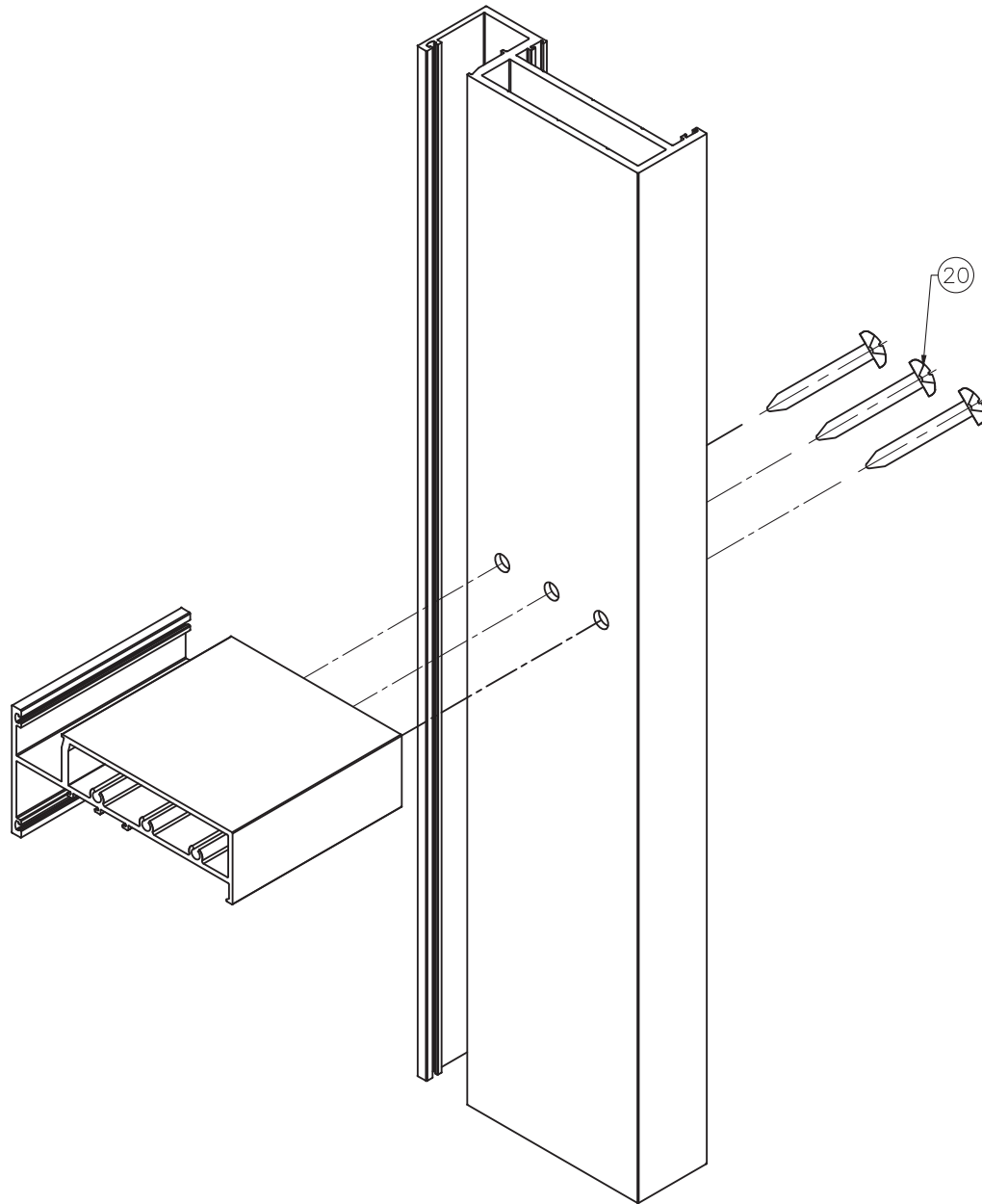
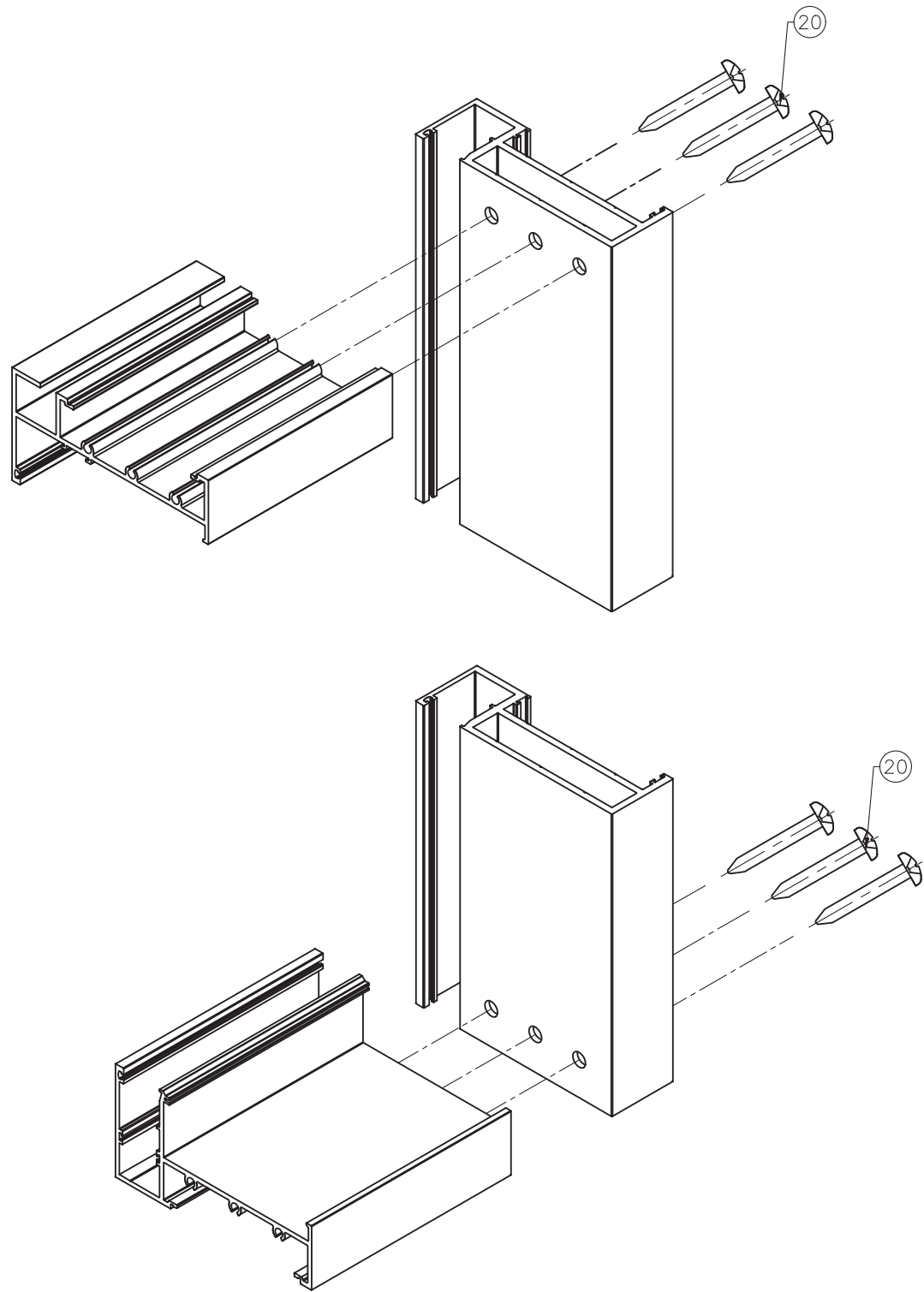
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FRAME CORNERS

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