

LINEA ROSSA LLC

GLR-U96 & GLR-U97 WINDOW WALL SYSTEMS - SMI

(HVHZ)(IMPACT)

INSTALLATION NOTES:

1. SEE SHEET 9 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENT, AND MINIMUM EDGE DISTANCES. ALL ANCHOR REQUIREMENTS MUST BE ADHERED TO. ANY DEVIATIONS FROM ANCHOR REQUIREMENTS REQUIRES SEPARATE EVALUATION AND APPROVAL.
2. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
3. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
5. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/2 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
9. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- 10.INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 16 GA. WALL THICKNESS.

E. ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

TAS 201-94

TAS 202-94

TAS 203-94

AAMA 501-15
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE. SEE SHEET 4 FOR GLAZING DETAIL. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300.
6. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300. SEE SHEET 4 FOR GLAZING DETAIL.
7. FRAME MATERIAL: ALUMINUM 6005-T5/ALUMINUM 6063-T6
8. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.

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INSTRUCTIONS FOR USE:

1. DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG, HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
2. SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. GLASS SELECTION SHALL BE IN ACCORDANCE WITH ASTM E1300.
3. CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 5 THROUGH 7, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
4. USING CHARTS ON SHEET 8 & 9 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
5. THE LOWEST VALUE RESULTING FROM STEP 2, 3, AND 4 SHALL APPLY TO ENTIRE SYSTEM.



1850 NW. 84TH AVE., STE. 114
DORAL, FL 33126
PH: (305)815-8797

TITLE: GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)
INSTALLATION & GENERAL NOTES

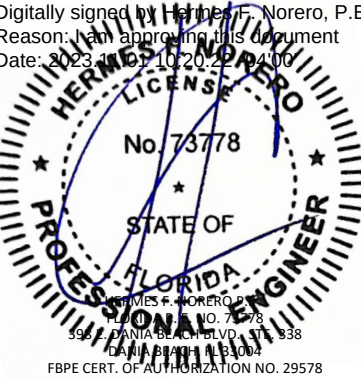
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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FAX: (954)744-4738
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REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

Digitally signed by **Hermes F. Norero, P.E.**
Reason: I am approving this document
Date: 2023.10.06 10:20:22 -0400



FL41922

DATE: 10.06.2023

DWG. BY: SH
CHK. BY: HFN

SCALE: NTS

DWG. #: LRA023

SHEET: OF 16

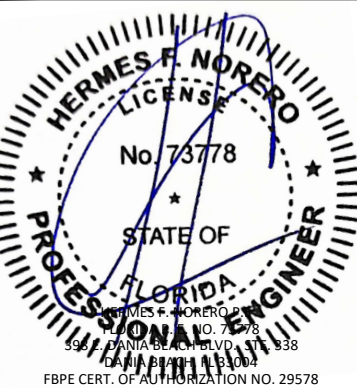
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WINDOW WALL SYSTEMS - SMI
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ELEVATION AND ANCHOR LAYOUT

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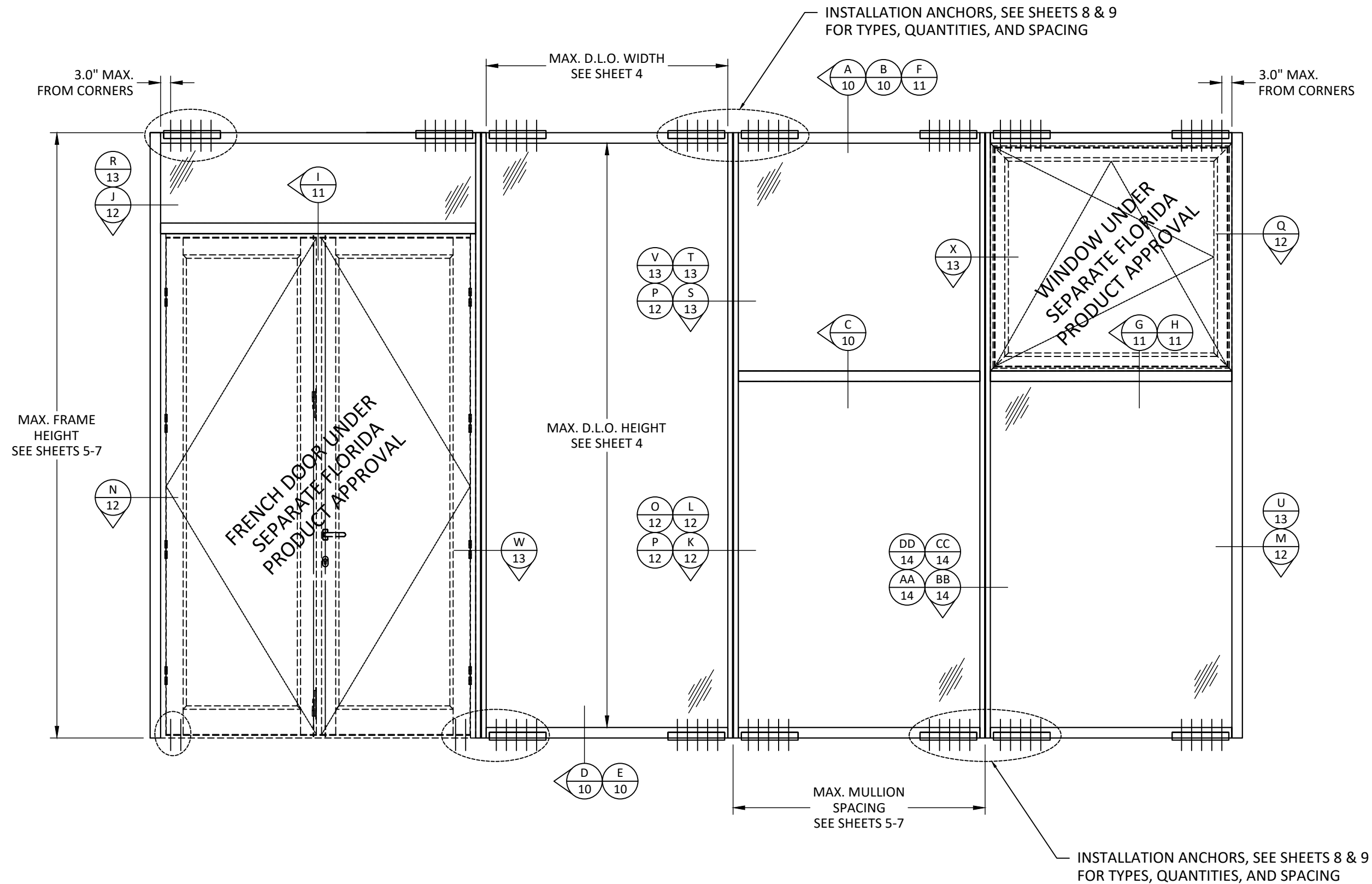
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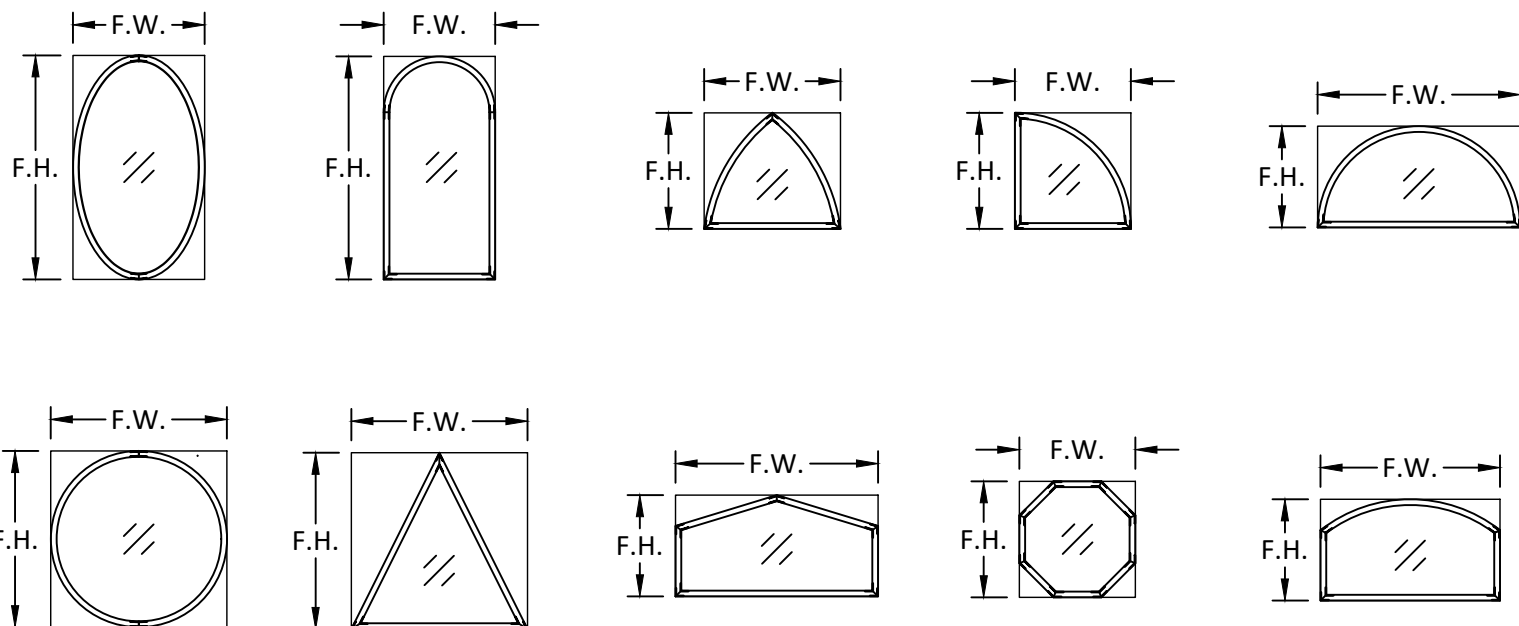
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SHEET: 2 OF 16





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GLR-U96 & GLR-U97
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ELEVATION, ANCHOR LAYOUT, & ALTERNATE SHAPES

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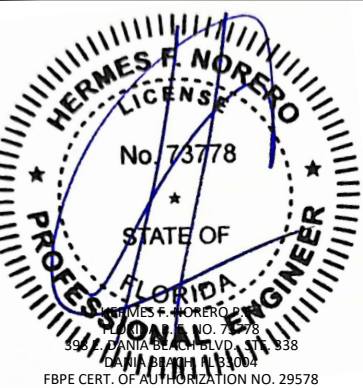
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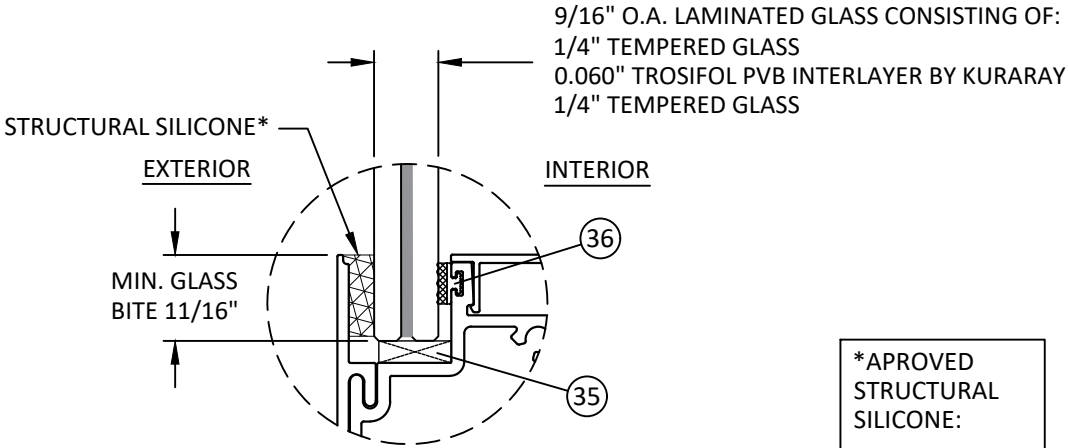
3

GLAZING DETAIL

GLASS LOAD CAPACITY (PSF)		
D.L.O. DIMENSIONS		GLASS TYPE G1
D.L.O. WIDTH (IN.)	D.L.O. HEIGHT (IN.)	
33.5	91	84.0
39.5		84.0
45.5		84.0
51.5		84.0
57.5		84.0
63.5		76.1
69.5		69.5
75.5	103	64.0
81.5		59.3
33.5		84.0
39.5		84.0
45.5		84.0
51.5		84.0
57.5		84.0
63.5		76.1
69.5	115	69.5
75.5		64.0
81.5		59.3
33.5		84.0
39.5		84.0
45.5		84.0
51.5		84.0
57.5	127	84.0
63.5		76.1
69.5		69.5
75.5		64.0

GLASS LOAD CAPACITY (PSF)		
D.L.O. DIMENSIONS		GLASS TYPE G1
D.L.O. WIDTH (IN.)	D.L.O. HEIGHT (IN.)	
33.5	139	84.0
39.5		84.0
45.5		84.0
51.5		84.0
57.5		84.0
63.5		76.1
69.5		69.5
33.5	151	84.0
39.5		84.0
45.5		84.0
51.5		84.0
57.5		84.0
63.5		76.1
33.5	163	84.0
39.5		84.0
45.5		84.0
51.5		84.0
57.5		84.0
63.5		76.1
33.5	175	84.0
39.5		84.0
45.5		84.0
51.5		84.0
57.5		84.0

DAYLITE OPENING DIMENSIONS:
DAYLITE OPENING WIDTH:
• MAX. MULLION SPACING - 2.5"
DAYLITE OPENING HEIGHT:
• FRAME HEIGHT - 5.0"



GLAZING DETAIL 1

- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SACRIFICIAL LITE SHALL BE TEMPERED WHEN INSTALLED 30' OR HIGHER ABOVE GRADE IN HVHZ.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - TWO APPROVED SETTING BLOCKS SHALL BE USED FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX. VALUES SHOWN ON TABLES IN SHEETS 4-7.

*APROVED
STRUCTURAL
SILICONE:

DOWSIL - 993
DOWSIL - 983
DOWSIL - 895
DOWSIL - 795

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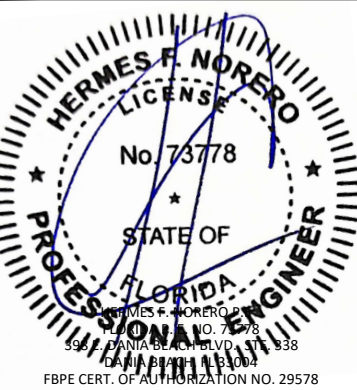
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JAMB DESIGN PRESSURE TABLES

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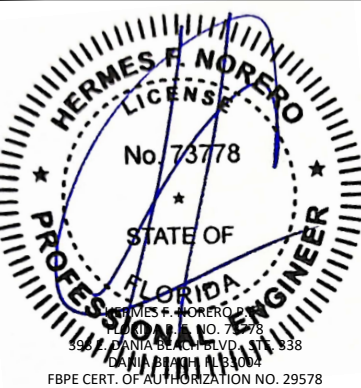
JAMB DESIGN PRESSURE TABLES

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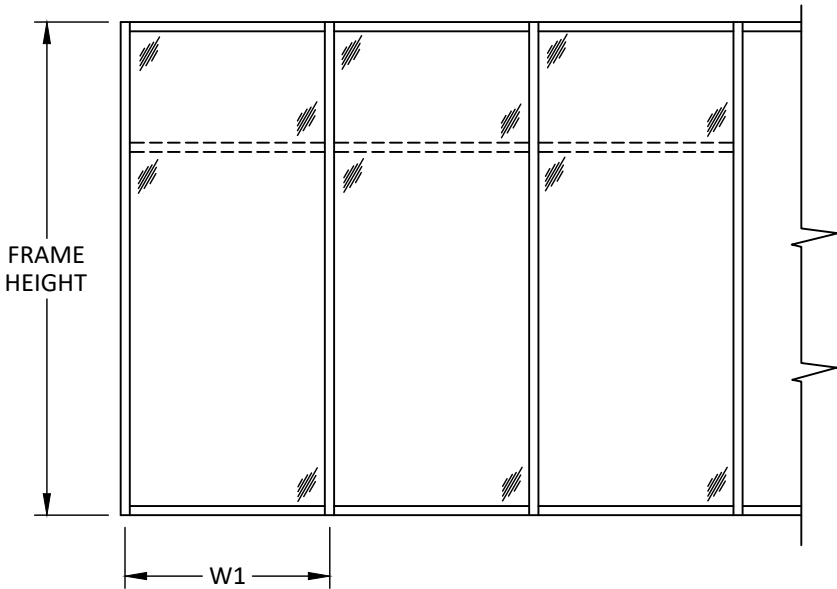
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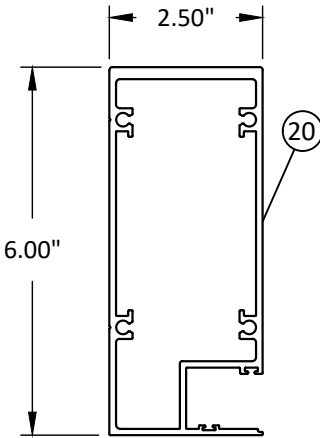
SHEET: 5 OF 16

DSIGN LOAD CAPACITY TABLE - PSF					
NOMINAL DIMS.		J1	J2	J3	J4
WIDTH - W (IN.)	FRAME HEIGHT - H (IN.)				
36	96	75.0	75.0	115.0	100.0
42		75.0	75.0	115.0	100.0
48		75.0	75.0	115.0	100.0
54		75.0	75.0	115.0	100.0
60		75.0	75.0	115.0	100.0
66		75.0	75.0	115.0	100.0
72		75.0	75.0	115.0	100.0
78		75.0	75.0	100.0	100.0
84	108	75.0	75.0	-	100.0
36		75.0	75.0	115.0	100.0
42		75.0	75.0	115.0	100.0
48		75.0	75.0	115.0	100.0
54		75.0	75.0	115.0	100.0
60		75.0	75.0	115.0	100.0
66		75.0	75.0	115.0	100.0
72		75.0	75.0	-	100.0
78		-	75.0	-	100.0
84		-	75.0	-	100.0
36	120	75.0	75.0	115.0	100.0
42		75.0	75.0	115.0	100.0
48		75.0	75.0	115.0	100.0
54		75.0	75.0	115.0	100.0
60		75.0	75.0	115.0	100.0
66		75.0	75.0	-	100.0
72		-	75.0	-	100.0
78		-	75.0	-	100.0
84		-	75.0	-	100.0
36	132	-	-	100.0	100.0
42		-	-	100.0	100.0
48		-	-	100.0	100.0
54		-	-	100.0	100.0
60		-	-	-	100.0
66		-	-	-	100.0
72		-	-	-	100.0
78		-	-	-	100.0

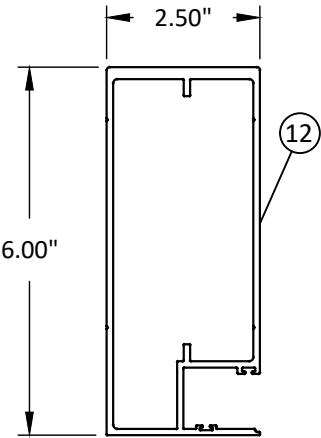
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48		-	-	100.0	100.0
54		-	-	-	100.0
60		-	-	-	100.0
66		-	-	-	100.0
72		-	-	-	100.0
36	156	-	-	100.0	100.0
42		-	-	100.0	100.0
48		-	-	-	100.0
54		-	-	-	100.0
60		-	-	-	100.0
66		-	-	-	100.0
36	168	-	-	-	84.0
42		-	-	-	84.0
48		-	-	-	84.0
54		-	-	-	84.0
60		-	-	-	84.0
66		-	-	-	84.0
36	180	-	-	-	84.0
42		-	-	-	84.0
48		-	-	-	84.0
54		-	-	-	84.0
60		-	-	-	84.0
66		-	-	-	84.0



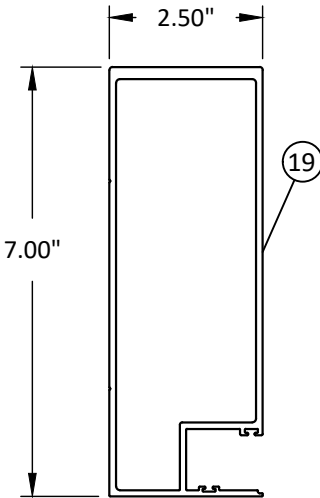
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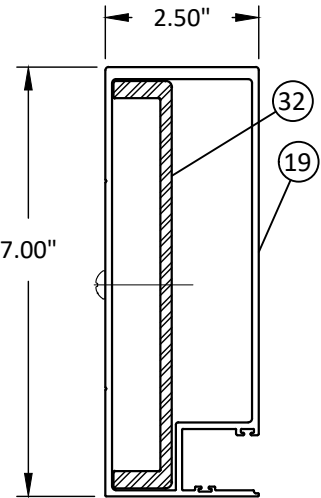
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JAMB - 'J2'



JAMB - 'J3'

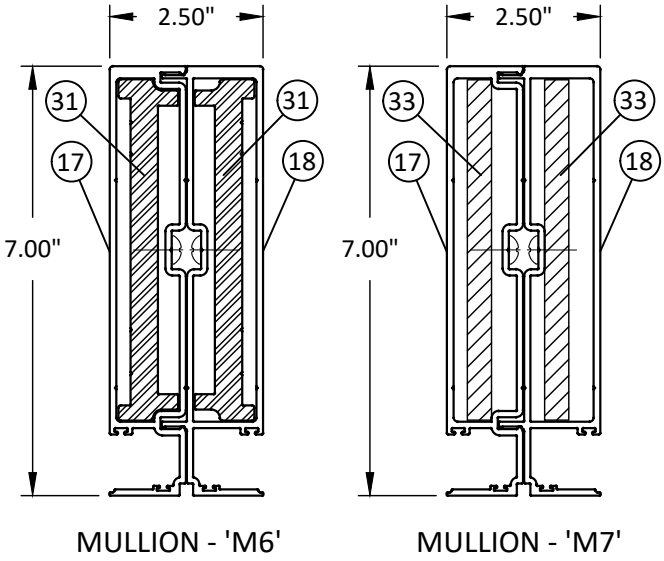
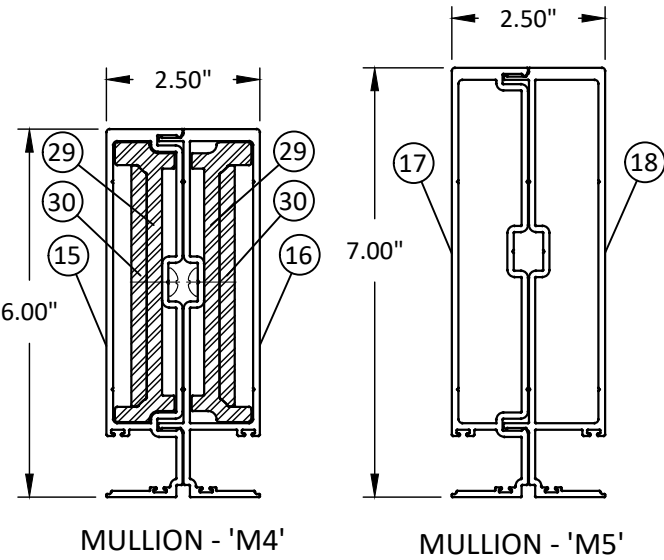
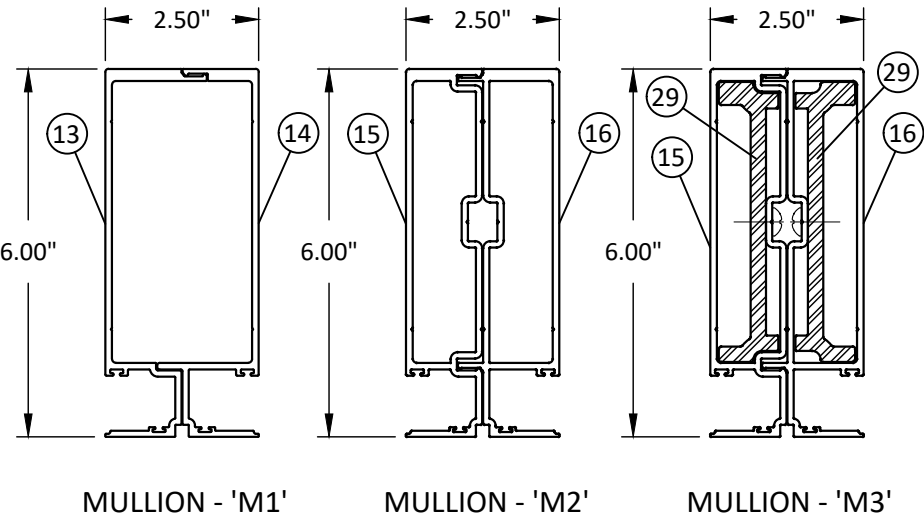
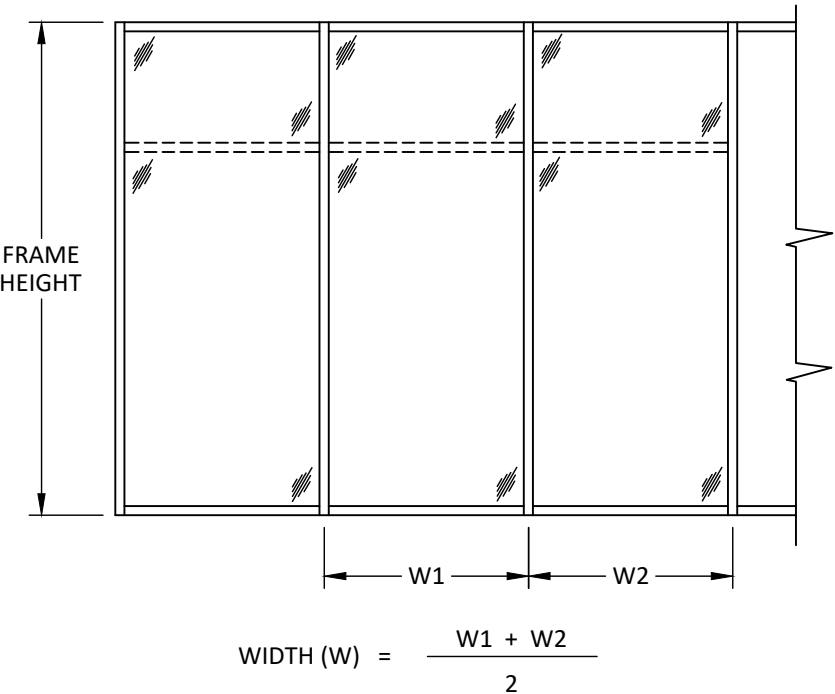


JAMB - 'J4'

MULLION DESIGN PRESSURE TABLES

DESIGN LOAD CAPACITY TABLE - PSF								
NOMINAL DIMS.		M1	M2	M3	M4	M5	M6	M7
WIDTH - W (IN.)	FRAME HEIGHT - H (IN.)							
36	96	75.0	75.0	75.0	140.0	115.0	100.0	100.0
42		75.0	75.0	75.0	140.0	115.0	100.0	100.0
48		75.0	75.0	75.0	140.0	115.0	100.0	100.0
54		75.0	75.0	75.0	140.0	115.0	100.0	100.0
60		75.0	75.0	75.0	140.0	115.0	100.0	100.0
66		-	75.0	75.0	140.0	115.0	100.0	100.0
72		-	75.0	75.0	140.0	115.0	100.0	100.0
78		-	-	75.0	140.0	-	100.0	100.0
84	108	-	-	75.0	140.0	-	-	100.0
36		75.0	75.0	75.0	-	115.0	100.0	100.0
42		75.0	75.0	75.0	-	115.0	100.0	100.0
48		75.0	75.0	75.0	-	115.0	100.0	100.0
54		75.0	75.0	75.0	-	115.0	100.0	100.0
60		-	75.0	75.0	-	115.0	100.0	100.0
66		-	75.0	75.0	-	115.0	100.0	100.0
72		-	-	75.0	-	-	-	100.0
78	120	-	-	75.0	-	-	-	100.0
84		-	-	-	-	-	-	100.0
36		75.0	75.0	75.0	-	115.0	100.0	100.0
42		75.0	75.0	75.0	-	115.0	100.0	100.0
48		75.0	75.0	75.0	-	115.0	100.0	100.0
54		-	75.0	75.0	-	115.0	100.0	100.0
60		-	75.0	75.0	-	115.0	100.0	100.0
66		-	-	75.0	-	-	-	100.0
72	132	-	-	75.0	-	-	-	100.0
78		-	-	-	-	-	-	100.0
84		-	-	-	-	-	-	100.0
36		-	-	-	-	-	100.0	100.0
42		-	-	-	-	-	100.0	100.0
48		-	-	-	-	-	100.0	100.0
54		-	-	-	-	-	100.0	100.0
60		-	-	-	-	-	-	100.0
66		-	-	-	-	-	-	100.0
72		-	-	-	-	-	-	100.0
78		-	-	-	-	-	-	100.0

DESIGN LOAD CAPACITY TABLE - PSF								
NOMINAL DIMS.		M1	M2	M3	M4	M5	M6	M7
WIDTH - W (IN.)	FRAME HEIGHT - H (IN.)							
36	144	-	-	-	-	-	100.0	100.0
42		-	-	-	-	-	100.0	100.0
48		-	-	-	-	-	100.0	100.0
54		-	-	-	-	-	-	100.0
60		-	-	-	-	-	-	100.0
66		-	-	-	-	-	-	100.0
72		-	-	-	-	-	-	100.0
78		-	-	-	-	-	-	100.0
36	156	-	-	-	-	-	100.0	100.0
42		-	-	-	-	-	100.0	100.0
48		-	-	-	-	-	100.0	100.0
54		-	-	-	-	-	-	100.0
60		-	-	-	-	-	-	100.0
66		-	-	-	-	-	-	100.0
72		-	-	-	-	-	-	100.0
78		-	-	-	-	-	-	100.0
36	168	-	-	-	-	-	-	84.0
42		-	-	-	-	-	-	84.0
48		-	-	-	-	-	-	84.0
54		-	-	-	-	-	-	84.0
60		-	-	-	-	-	-	84.0
66		-	-	-	-	-	-	84.0
72		-	-	-	-	-	-	84.0
78		-	-	-	-	-	-	84.0
36	180	-	-	-	-	-	-	84.0
42		-	-	-	-	-	-	84.0
48		-	-	-	-	-	-	84.0
54		-	-	-	-	-	-	84.0
60		-	-	-	-	-	-	84.0
66		-	-	-	-	-	-	84.0
72		-	-	-	-	-	-	84.0
78		-	-	-	-	-	-	84.0



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TITLE: GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
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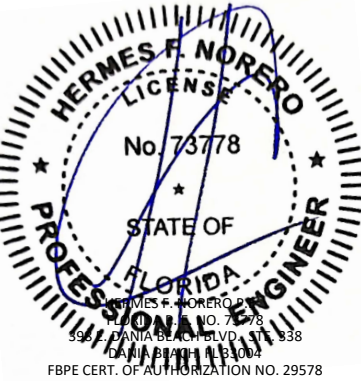
MULLION DESIGN PRESSURE TABLES

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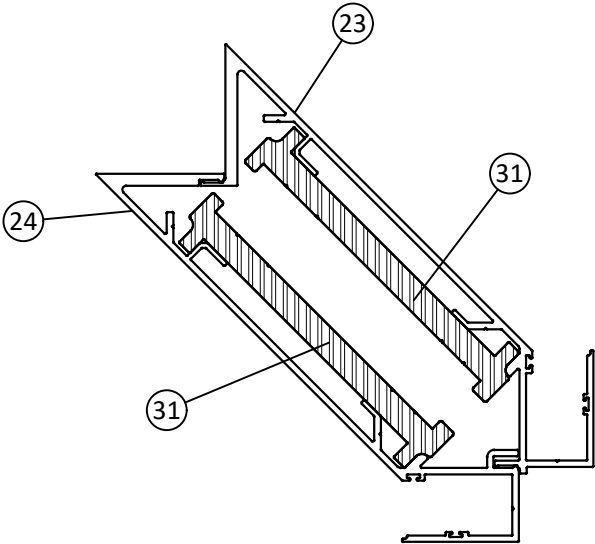


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DWG. BY: SH	CHK. BY: HFN
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DWG. #: LRA023	
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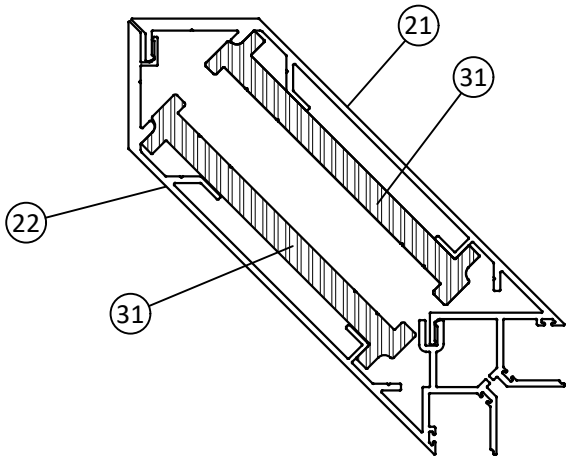
CORNER MULLION DESIGN PRESSURE TABLES

DESIGN LOAD CAPACITY TABLE - PSF			
NOMINAL DIMS.		C1	C2
WIDTH - W (IN.)	FRAME HEIGHT - H (IN.)		
36	96	84.0	84.0
42		84.0	84.0
48		84.0	84.0
54		84.0	84.0
60		84.0	84.0
66		84.0	84.0
72		84.0	84.0
78		84.0	84.0
84	108	84.0	84.0
36		84.0	84.0
42		84.0	84.0
48		84.0	84.0
54		84.0	84.0
60		84.0	84.0
66		84.0	84.0
72		84.0	84.0
78	120	84.0	84.0
84		84.0	84.0
36		84.0	84.0
42		84.0	84.0
48		84.0	84.0
54		84.0	84.0
60		84.0	84.0
66		84.0	84.0
72	132	84.0	84.0
78		84.0	84.0
36		84.0	84.0
42		84.0	84.0
48		84.0	84.0
54		84.0	84.0
60		84.0	84.0
66		84.0	84.0

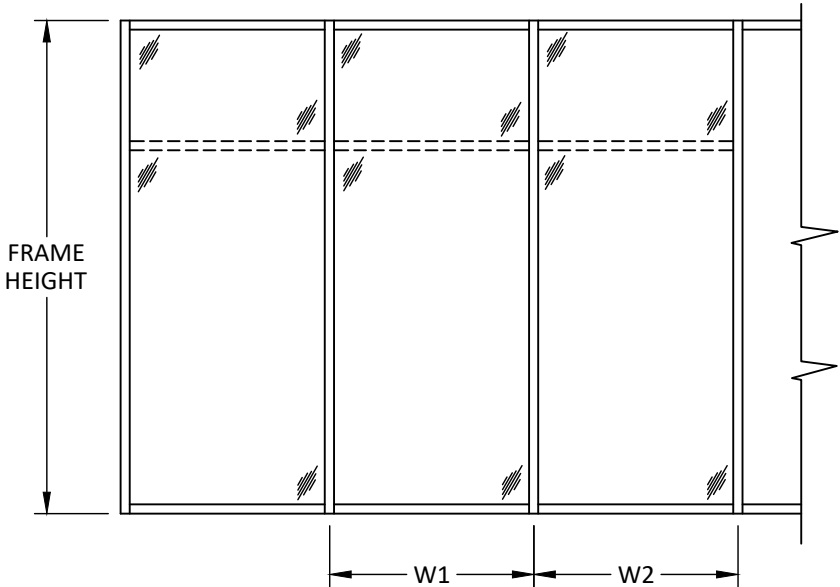
DESIGN LOAD CAPACITY TABLE - PSF			
NOMINAL DIMS.		C1	C2
WIDTH - W (IN.)	FRAME HEIGHT - H (IN.)		
36	144	84.0	84.0
42		84.0	84.0
48		84.0	84.0
54		84.0	84.0
60		84.0	84.0
66		84.0	84.0
72		84.0	84.0
78	156	84.0	84.0
84		84.0	84.0
36		84.0	84.0
42		84.0	84.0
48		84.0	84.0
54		84.0	84.0
60		84.0	84.0
66	168	84.0	84.0
72		84.0	84.0
78		84.0	84.0
84		84.0	84.0
36		84.0	84.0
42		84.0	84.0
48		84.0	84.0
54	180	84.0	84.0
60		84.0	84.0
66		84.0	84.0
72		84.0	84.0
78		84.0	84.0
84		84.0	84.0



CORNER MULLION - 'C1'



CORNER MULLION - 'C2'



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

TITLE: GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
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CORNER MULLION DESIGN PRESSURE TABLES

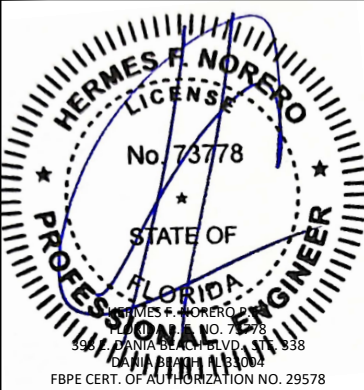
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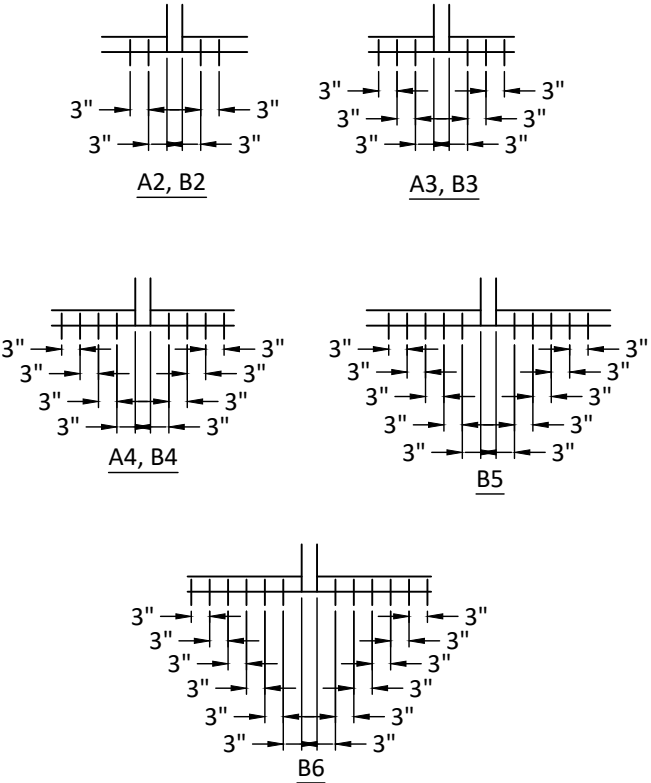
DWG. #: LRA023

SHEET: OF 16

TYPE A & B ANCHOR TABLES

ANCHOR LOAD CAPACITY (PSF)									
EXT. (+) & INT (-)									
NOMINAL DIMS. (IN.)		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'				
TRIBUTARY WIDTH	FRAME HEIGHT	A2	A3	A4	B2	B3	B4	B5	B6
36	96	140.0	140.0	140.0	100.0	140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	85.7	128.6	140.0	140.0	140.0
48		136.8	140.0	140.0	75.0	112.5	140.0	140.0	140.0
54		121.6	140.0	140.0	66.7	100.0	133.3	140.0	140.0
60		109.4	140.0	140.0	60.0	90.0	120.0	140.0	140.0
66		99.5	140.0	140.0	54.5	81.8	109.1	136.4	140.0
72		91.2	136.8	140.0	50.0	75.0	100.0	125.0	140.0
78		84.2	126.2	140.0	46.2	69.2	92.3	115.4	138.5
84		78.1	117.2	140.0	42.9	64.3	85.7	107.1	128.6
36	108	140.0	140.0	140.0	88.9	133.3	140.0	140.0	140.0
42		138.9	140.0	140.0	76.2	114.3	140.0	140.0	140.0
48		121.6	140.0	140.0	66.7	100.0	133.3	140.0	140.0
54		108.0	140.0	140.0	59.3	88.9	118.5	140.0	140.0
60		97.2	140.0	140.0	53.3	80.0	106.7	133.3	140.0
66		88.4	132.6	140.0	48.5	72.7	97.0	121.2	140.0
72		81.0	121.6	140.0	44.4	66.7	88.9	111.1	133.3
78		74.8	112.2	140.0	41.0	61.5	82.1	102.6	123.1
84		69.5	104.2	138.9	38.1	57.1	76.2	95.2	114.3
36	120	140.0	140.0	140.0	80.0	120.0	140.0	140.0	140.0
42		125.0	140.0	140.0	68.6	102.9	137.1	140.0	140.0
48		109.4	140.0	140.0	60.0	90.0	120.0	140.0	140.0
54		97.2	140.0	140.0	53.3	80.0	106.7	133.3	140.0
60		87.5	131.3	140.0	48.0	72.0	96.0	120.0	140.0
66		79.6	119.3	140.0	43.6	65.5	87.3	109.1	130.9
72		72.9	109.4	140.0	40.0	60.0	80.0	100.0	120.0
78		67.3	101.0	134.6	36.9	55.4	73.8	92.3	110.8
84		62.5	93.8	125.0	34.3	51.4	68.6	85.7	102.9
36	132	132.6	140.0	140.0	72.7	109.1	140.0	140.0	140.0
42		113.7	140.0	140.0	62.3	93.5	124.7	140.0	140.0
48		99.5	140.0	140.0	54.5	81.8	109.1	136.4	140.0
54		88.4	132.6	140.0	48.5	72.7	97.0	121.2	140.0
60		79.6	119.3	140.0	43.6	65.5	87.3	109.1	130.9
66		72.3	108.5	140.0	39.7	59.5	79.3	99.2	119.0
72		66.3	99.5	132.6	36.4	54.5	72.7	90.9	109.1
78		61.2	91.8	122.4	33.6	50.3	67.1	83.9	100.7

ANCHOR LOAD CAPACITY (PSF)									
EXT. (+) & INT (-)									
NOMINAL DIMS. (IN.)		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'				
TRIBUTARY WIDTH	FRAME HEIGHT	A2	A3	A4	B2	B3	B4	B5	B6
36	144	121.6	140.0	140.0	66.7	100.0	133.3	140.0	140.0
42		104.2	140.0	140.0	57.1	85.7	114.3	140.0	140.0
48		91.2	136.8	140.0	50.0	75.0	100.0	125.0	140.0
54		81.0	121.6	140.0	44.4	66.7	88.9	111.1	133.3
60		72.9	109.4	140.0	40.0	60.0	80.0	100.0	120.0
66		66.3	99.5	132.6	36.4	54.5	72.7	90.9	109.1
72		60.8	91.2	121.6	33.3	50.0	66.7	83.3	100.0
36	156	112.2	140.0	140.0	61.5	92.3	123.1	140.0	140.0
42		96.2	140.0	140.0	52.7	79.1	105.5	131.9	140.0
48		84.2	126.2	140.0	46.2	69.2	92.3	115.4	138.5
54		74.8	112.2	140.0	41.0	61.5	82.1	102.6	123.1
60		67.3	101.0	134.6	36.9	55.4	73.8	92.3	110.8
66		61.2	91.8	122.4	33.6	50.3	67.1	83.9	100.7
36	168	104.2	140.0	140.0	57.1	85.7	114.3	140.0	140.0
42		89.3	134.0	140.0	49.0	73.5	98.0	122.4	140.0
48		78.1	117.2	140.0	42.9	64.3	85.7	107.1	128.6
54		69.5	104.2	138.9	38.1	57.1	76.2	95.2	114.3
60		62.5	93.8	125.0	34.3	51.4	68.6	85.7	102.9
36	180	97.2	140.0	140.0	53.3	80.0	106.7	133.3	140.0
42		83.4	125.0	140.0	45.7	68.6	91.4	114.3	137.1
48		72.9	109.4	140.0	40.0	60.0	80.0	100.0	120.0
54		64.8	97.2	129.7	35.6	53.3	71.1	88.9	106.7
60		58.3	87.5	116.7	32.0	48.0	64.0	80.0	96.0



ANCHOR SCHEDULE				
ANCHOR TYPE	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	5/16" DEWALT ULTRACON +	CONCRETE MIN. F'C = 3000 PSI	2"	3"
B		GROUT-FILLED BLOCK PER C-90, MIN. F'C' = 2000 PSI	1-3/4"	2-1/2"
C		WOOD, MIN. S.G. = 0.55	1-1/2"	1-9/16"
D	5/16" SELF-DRILLING SCREW (GRADE 5)	STEEL: MIN. 16 GA., MIN. Fy=36 KSI, ALUM: MIN. 1/8", MIN. 6063-T5	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"

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TYPE A & B ANCHOR TABLES

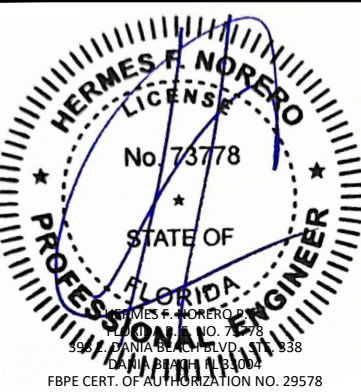
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REMARKS	BY	DATE

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FL41922

DATE: 10.06.2023

DWG. BY: SH

CHK. BY: HFN

SCALE: NTS

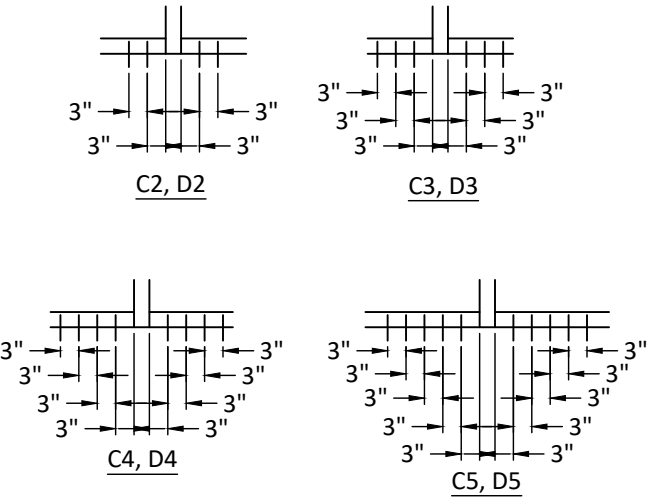
DWG. #: LRA023

SHEET: 8 OF 16

TYPE C & D ANCHOR TABLES

ANCHOR LOAD CAPACITY (PSF) EXT. (+) & INT. (-)									
NOMINAL DIMS. (IN.)		ANCHOR TYPE 'C'				ANCHOR TYPE 'D'			
TRIBUTARY WIDTH	FRAME HEIGHT	C2	C3	C4	C5	D2	D3	D4	D5
36	96	127.8	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		109.5	140.0	140.0	140.0	131.0	140.0	140.0	140.0
48		95.8	140.0	140.0	140.0	114.6	140.0	140.0	140.0
54		85.2	127.8	140.0	140.0	101.9	140.0	140.0	140.0
60		76.7	115.0	140.0	140.0	91.7	137.5	140.0	140.0
66		69.7	104.5	139.4	140.0	83.3	125.0	140.0	140.0
72		63.9	95.8	127.8	140.0	76.4	114.6	140.0	140.0
78		59.0	88.5	117.9	140.0	70.5	105.8	140.0	140.0
84	108	54.8	82.1	109.5	136.9	65.5	98.2	131.0	140.0
36		113.6	140.0	140.0	140.0	135.8	140.0	140.0	140.0
42		97.4	140.0	140.0	140.0	116.4	140.0	140.0	140.0
48		85.2	127.8	140.0	140.0	101.9	140.0	140.0	140.0
54		75.7	113.6	140.0	140.0	90.5	135.8	140.0	140.0
60		68.1	102.2	136.3	140.0	81.5	122.2	140.0	140.0
66		62.0	92.9	123.9	140.0	74.1	111.1	140.0	140.0
72		56.8	85.2	113.6	140.0	67.9	101.9	135.8	140.0
78	120	52.4	78.6	104.8	131.1	62.7	94.0	125.4	140.0
84		48.7	73.0	97.4	121.7	58.2	87.3	116.4	140.0
36		102.2	140.0	140.0	140.0	122.2	140.0	140.0	140.0
42		87.6	131.4	140.0	140.0	104.8	140.0	140.0	140.0
48		76.7	115.0	140.0	140.0	91.7	137.5	140.0	140.0
54		68.1	102.2	136.3	140.0	81.5	122.2	140.0	140.0
60		61.3	92.0	122.7	140.0	73.3	110.0	140.0	140.0
66		55.8	83.6	111.5	139.4	66.7	100.0	133.3	140.0
72	132	51.1	76.7	102.2	127.8	61.1	91.7	122.2	140.0
78		47.2	70.8	94.4	117.9	56.4	84.6	112.8	140.0
84		43.8	65.7	87.6	109.5	52.4	78.6	104.8	131.0
36		92.9	139.4	140.0	140.0	111.1	140.0	140.0	140.0
42		79.7	119.5	140.0	140.0	95.2	140.0	140.0	140.0
48		69.7	104.5	139.4	140.0	83.3	125.0	140.0	140.0
54		62.0	92.9	123.9	140.0	74.1	111.1	140.0	140.0
60		55.8	83.6	111.5	139.4	66.7	100.0	133.3	140.0
66	144	50.7	76.0	101.4	126.7	60.6	90.9	121.2	140.0
72		46.5	69.7	92.9	116.2	55.6	83.3	111.1	138.9
78		42.9	64.3	85.8	107.2	51.3	76.9	102.6	128.2
84		40.9	61.3	81.8	102.2	48.9	73.3	97.8	122.2

ANCHOR LOAD CAPACITY (PSF) EXT. (+) & INT. (-)									
NOMINAL DIMS. (IN.)		ANCHOR TYPE 'C'				ANCHOR TYPE 'D'			
TRIBUTARY WIDTH	FRAME HEIGHT	C2	C3	C4	C5	D2	D3	D4	D5
36	144	85.2	127.8	140.0	140.0	101.9	140.0	140.0	140.0
42		73.0	109.5	140.0	140.0	87.3	131.0	140.0	140.0
48		63.9	95.8	127.8	140.0	76.4	114.6	140.0	140.0
54		56.8	85.2	113.6	140.0	67.9	101.9	135.8	140.0
60		51.1	76.7	102.2	127.8	61.1	91.7	122.2	140.0
66		46.5	69.7	92.9	116.2	55.6	83.3	111.1	138.9
72		42.6	63.9	85.2	106.5	50.9	76.4	101.9	127.3
36	156	78.6	117.9	140.0	140.0	94.0	140.0	140.0	140.0
42		67.4	101.1	134.8	140.0	80.6	120.9	140.0	140.0
48		59.0	88.5	117.9	140.0	70.5	105.8	140.0	140.0
54		52.4	78.6	104.8	131.1	62.7	94.0	125.4	140.0
60		47.2	70.8	94.4	117.9	56.4	84.6	112.8	140.0
66		42.9	64.3	85.8	107.2	51.3	76.9	102.6	128.2
36	168	73.0	109.5	140.0	140.0	87.3	131.0	140.0	140.0
42		62.6	93.9	125.2	140.0	74.8	112.2	140.0	140.0
48		54.8	82.1	109.5	136.9	65.5	98.2	131.0	140.0
54		48.7	73.0	97.4	121.7	58.2	87.3	116.4	140.0
60		43.8	65.7	87.6	109.5	52.4	78.6	104.8	131.0
36	180	68.1	102.2	136.3	140.0	81.5	122.2	140.0	140.0
42		58.4	87.6	116.8	140.0	69.8	104.8	139.7	140.0
48		51.1	76.7	102.2	127.8	61.1	91.7	122.2	140.0
54		45.4	68.1	90.9	113.6	54.3	81.5	108.6	135.8
60		40.9	61.3	81.8	102.2	48.9	73.3	97.8	122.2



ANCHOR SCHEDULE				
ANCHOR TYPE	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	5/16" DEWALT ULTRACON +	CONCRETE MIN. F'C = 3000 PSI	2"	3"
B		GROUT-FILLED BLOCK PER C-90, MIN. F'C' = 2000 PSI	1-3/4"	2-1/2"
C		WOOD, MIN. S.G. = 0.55	1-1/2"	1-9/16"
D	5/16" SELF-DRILLING SCREW (GRADE 5)	STEEL: MIN. 16 GA., MIN. Fy=36 KSI, ALUM: MIN. 1/8", MIN. 6063-T5	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"

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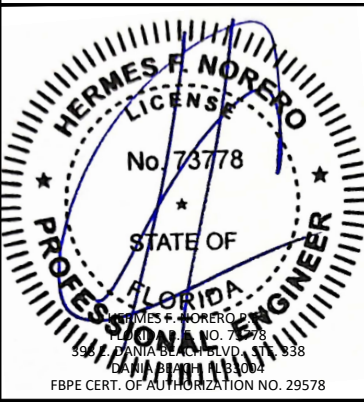
TITLE:
GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)
TYPE C & D ANCHOR TABLES

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BUILDING DROPS, INC.
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FAX: (954)744-4738
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REMARKS	BY	DATE

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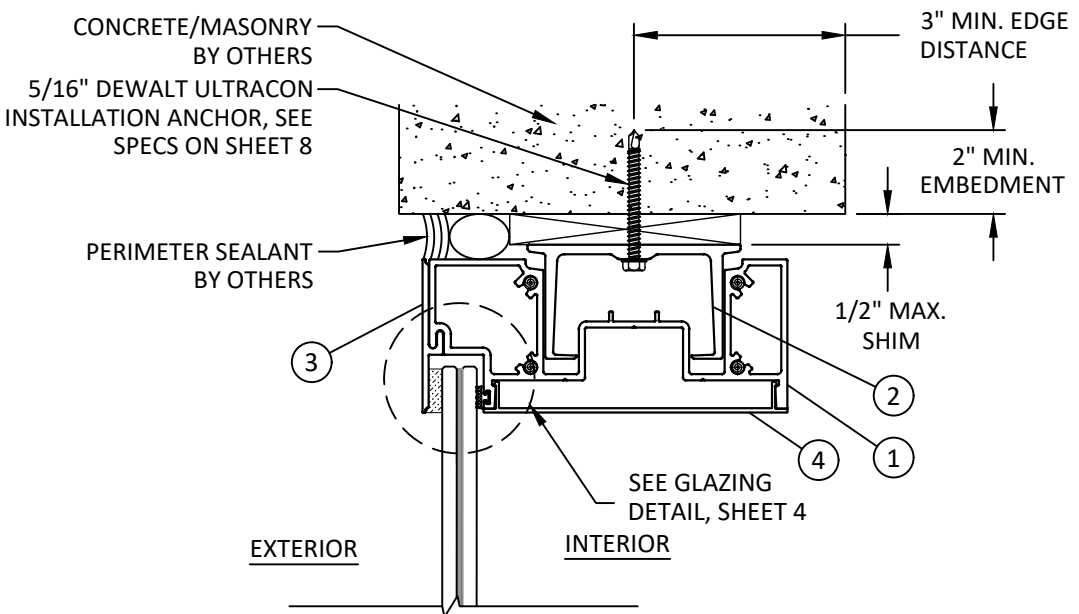
DWG. BY:
SH

CHK. BY:
HFN

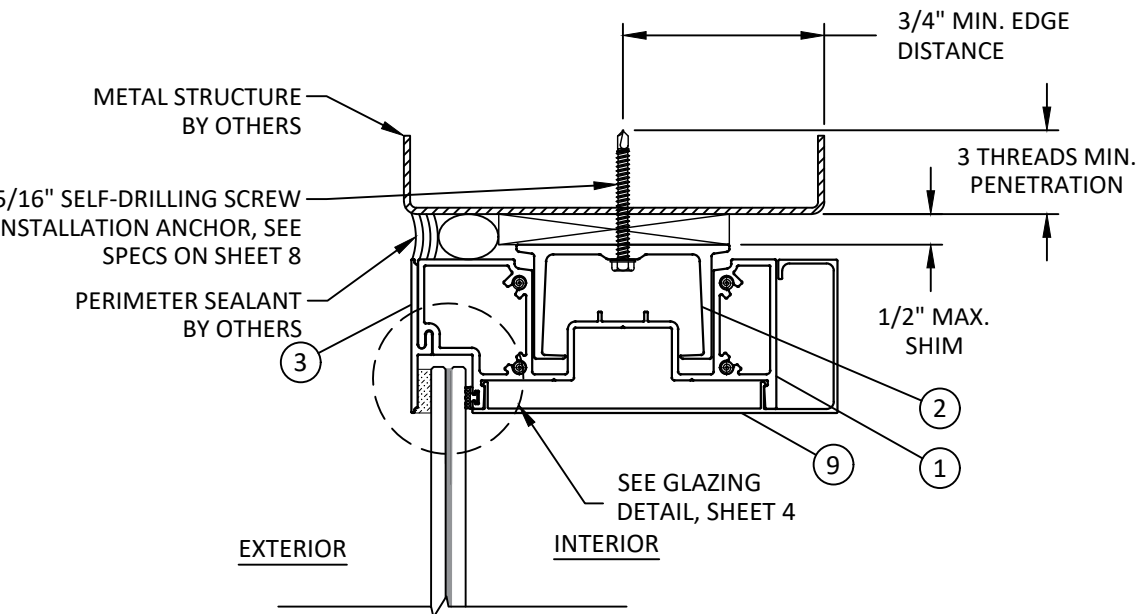
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DWG. #: LRA023

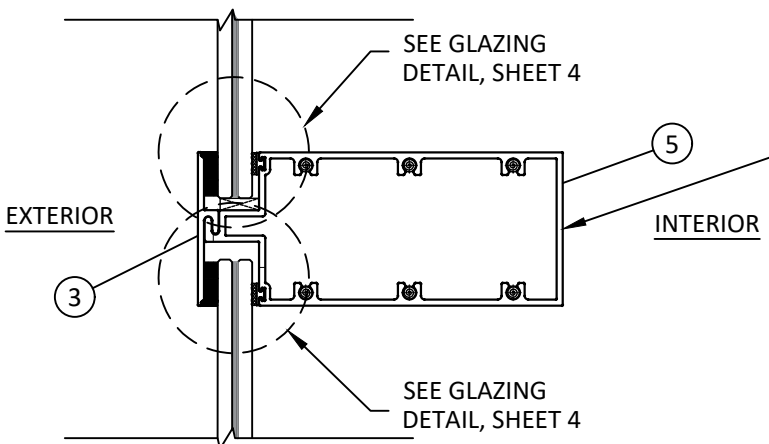
SHEET: 9 OF 16



A
10 VERTICAL SECTION
HEAD - CONCRETE/MASONRY SUBSTRATE

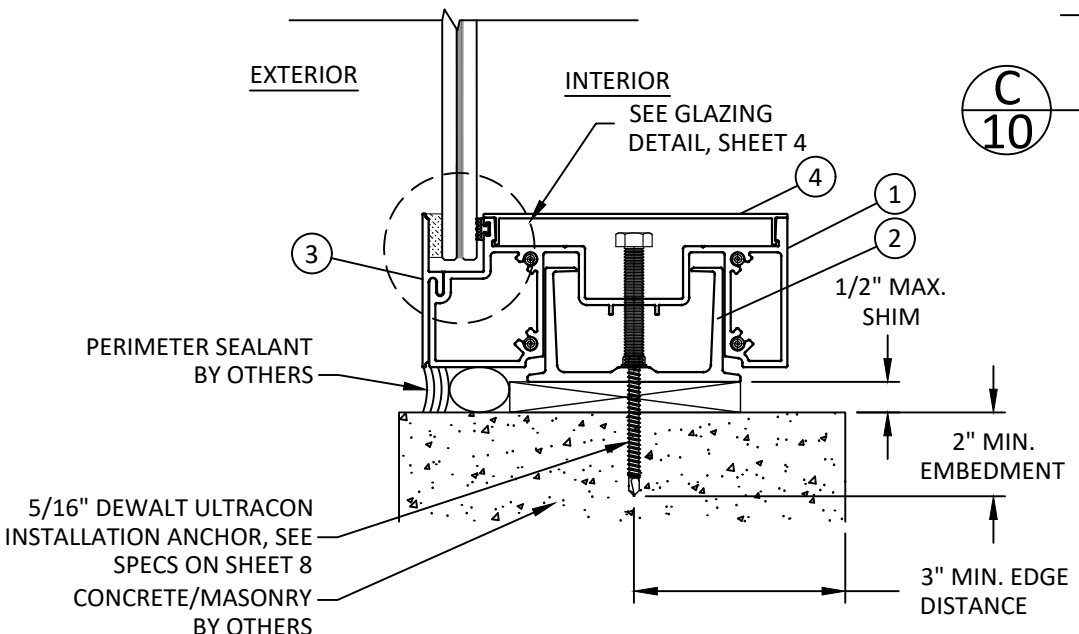


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HEAD - METAL SUBSTRATE

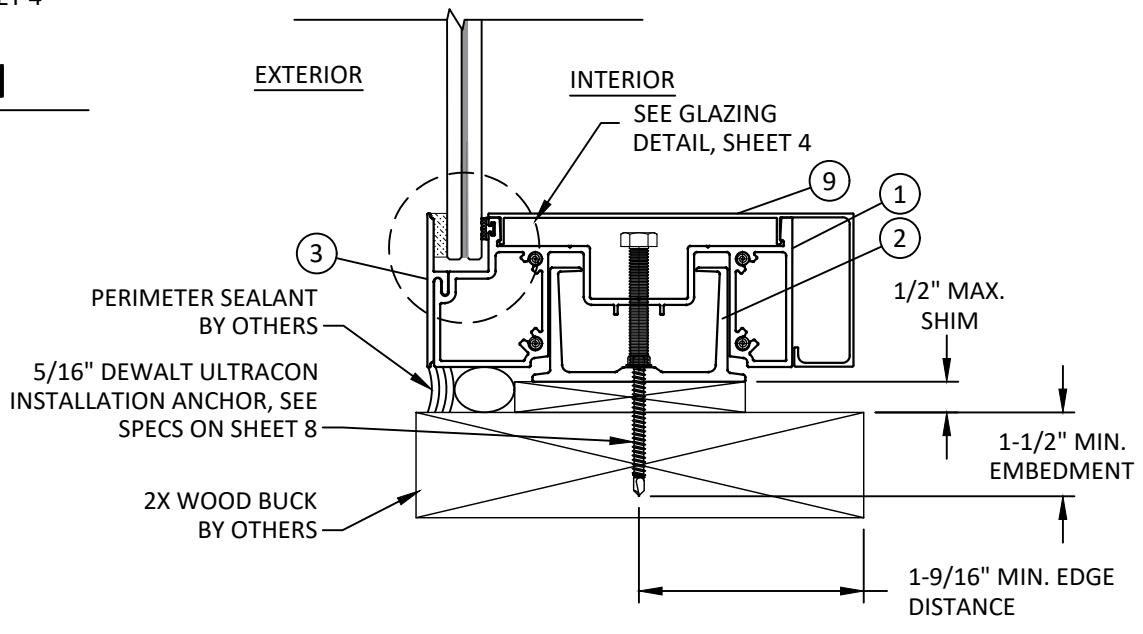


C
10 VERTICAL SECTION
HORIZONTAL MULLION

DESIGN LOAD CAPACITY TABLE - PSF		
NOMINAL DIMS.		
TRIBUTARY WIDTH (IN.)	MULLION SPAN (IN.)	H1
84	39.5	115.0
60	51.5	115.0
120	51.5	100.0
108	63.5	100.0
96	75.5	100.0
84	87.5	100.0
72	97.5	100.0



D
10 VERTICAL SECTION
SILL - CONCRETE/MASONRY SUBSTRATE



E
10 VERTICAL SECTION
HEAD - 2X WOOD BUCK

TITLE: GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)

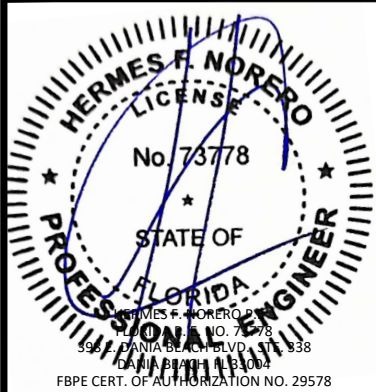
VERTICAL SECTIONS

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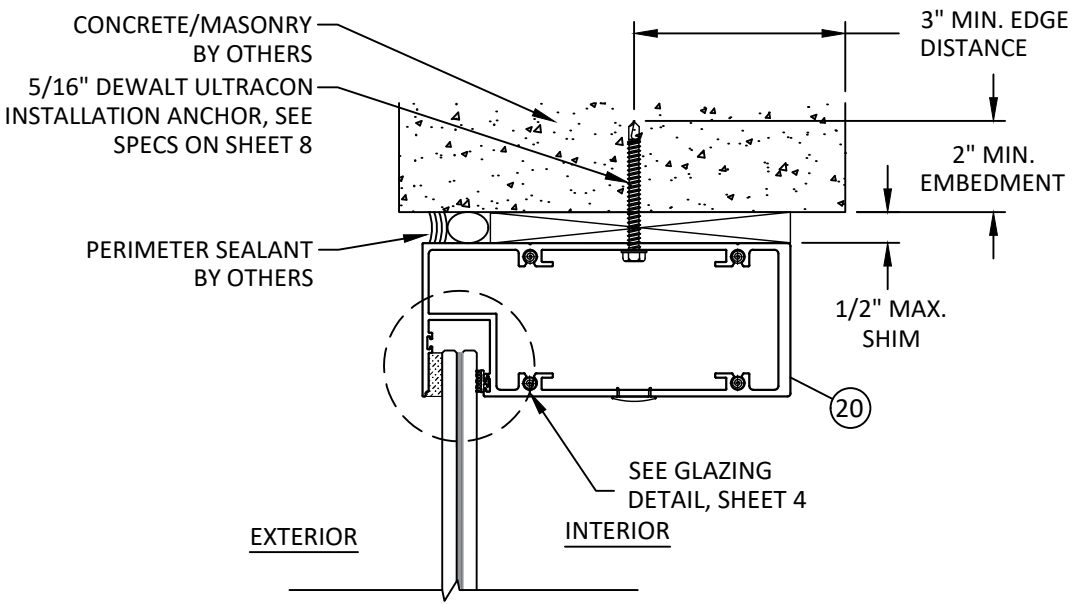
REMARKS	BY	DATE

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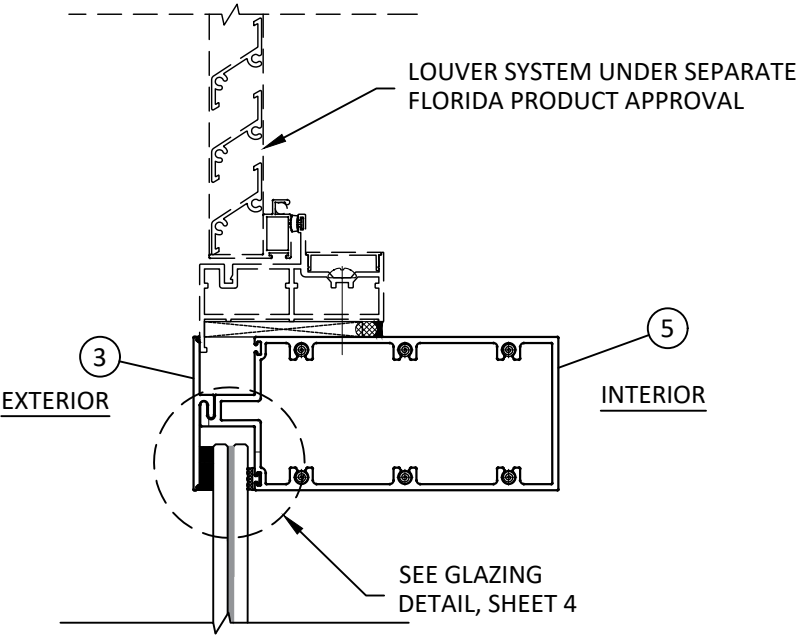


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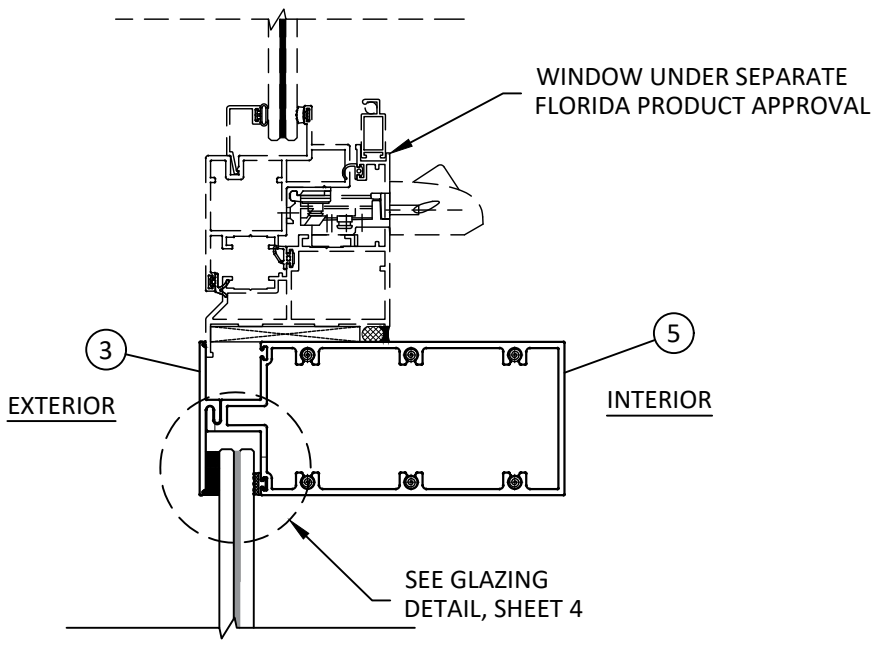
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DWG. BY: SH	CHK. BY: HFN
SCALE: NTS	
DWG. #: LRA023	
SHEET: 10	OF 16



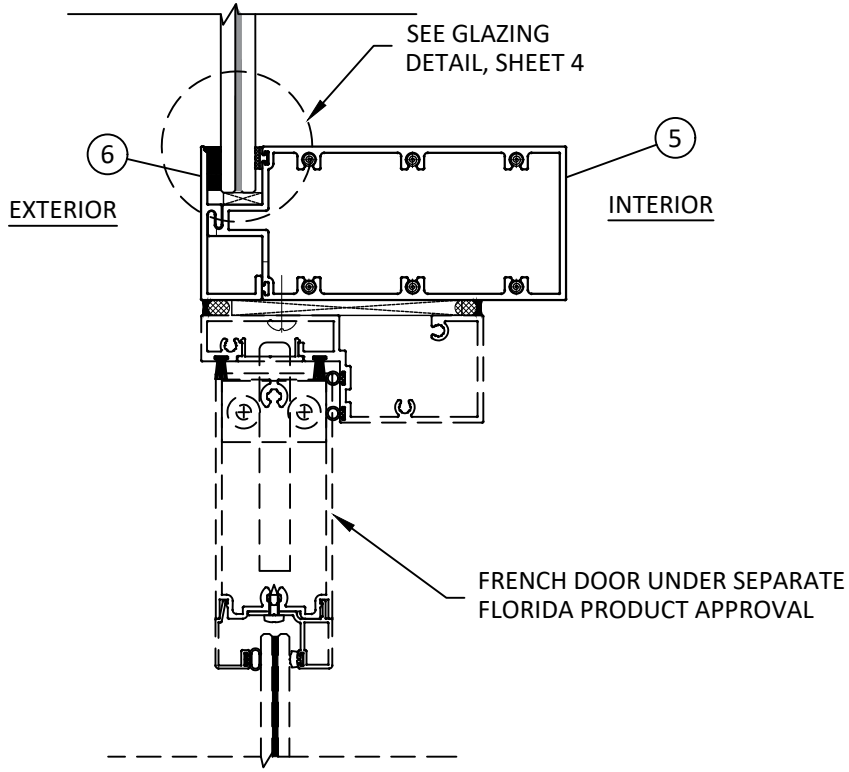
F
11 VERTICAL SECTION
HEAD - CONCRETE/MASONRY SUBSTRATE



H
11 VERTICAL SECTION
HORIZONTAL MULLION



G
11 VERTICAL SECTION
HORIZONTAL MULLION



I
11 VERTICAL SECTION
HORIZONTAL MULLION

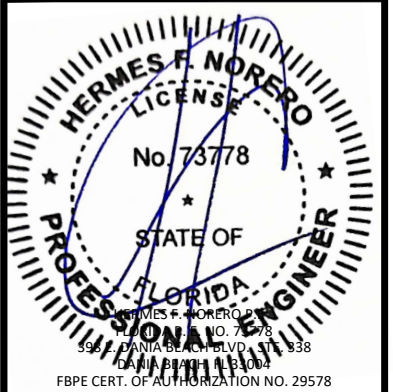
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WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)
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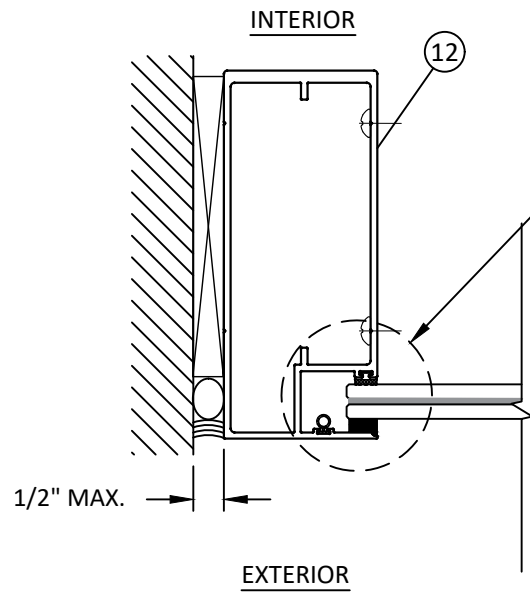
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DWG. BY: SH	CHK. BY: HFN
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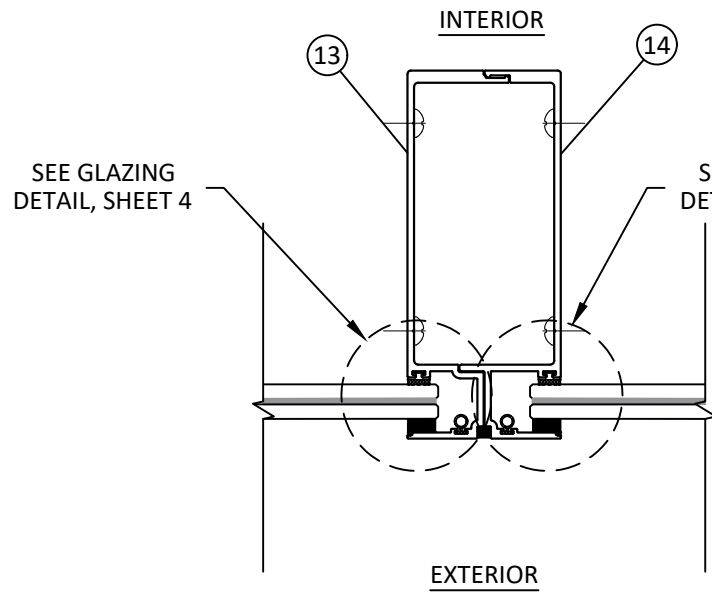
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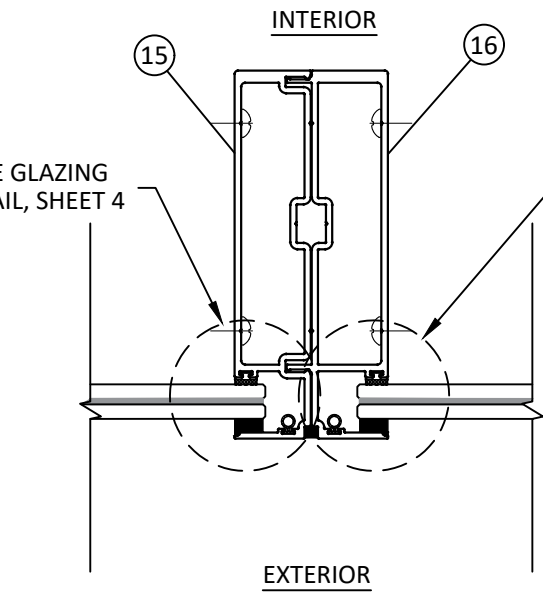
SHEET: 11 OF 16



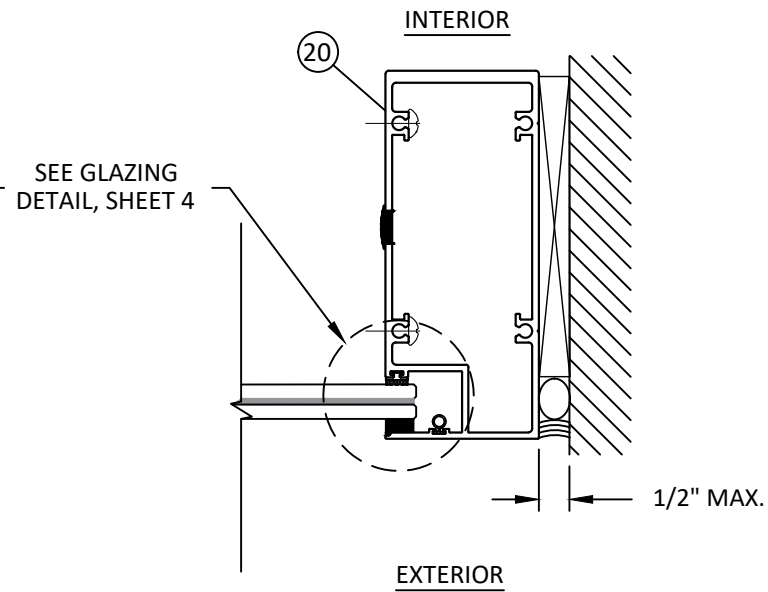
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JAMB - J2



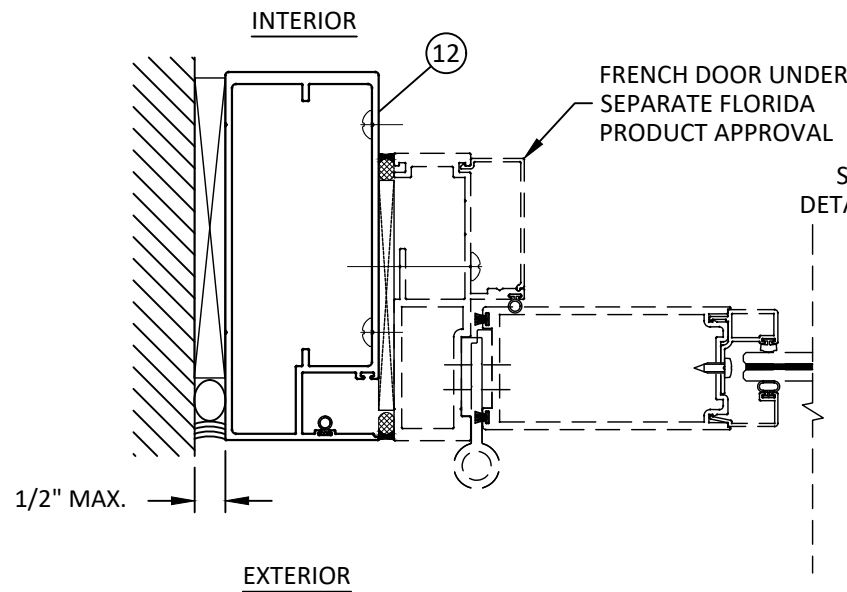
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MULLION - M1



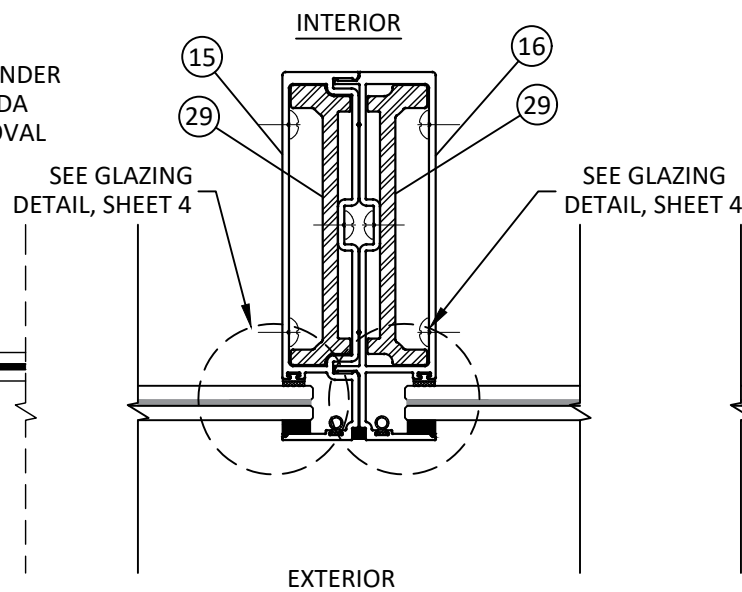
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MULLION - M2



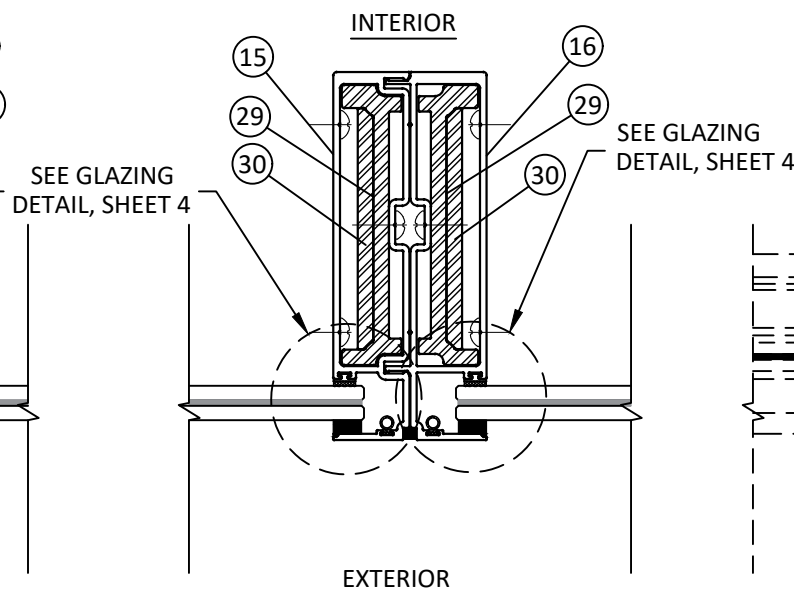
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JAMB - J1



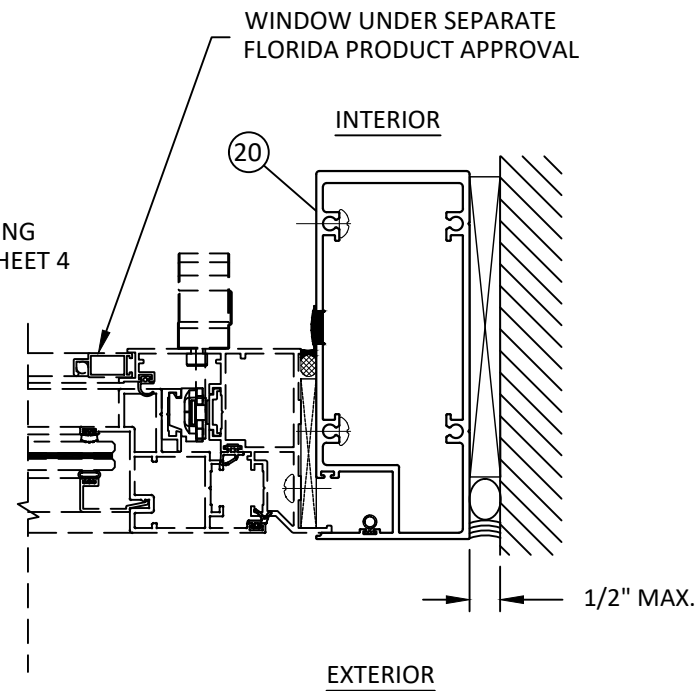
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12 HORIZONTAL SECTION
JAMB - J2



O
12 HORIZONTAL SECTION
MULLION - M3



P
12 HORIZONTAL SECTION
MULLION - M4



Q
12 HORIZONTAL SECTION
JAMB - J1

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WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)

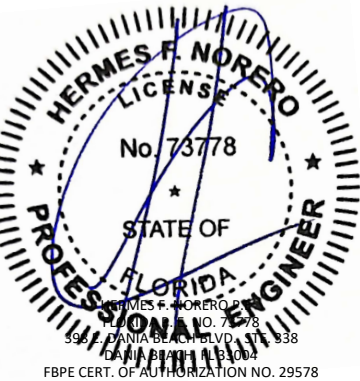
HORIZONTAL SECTIONS

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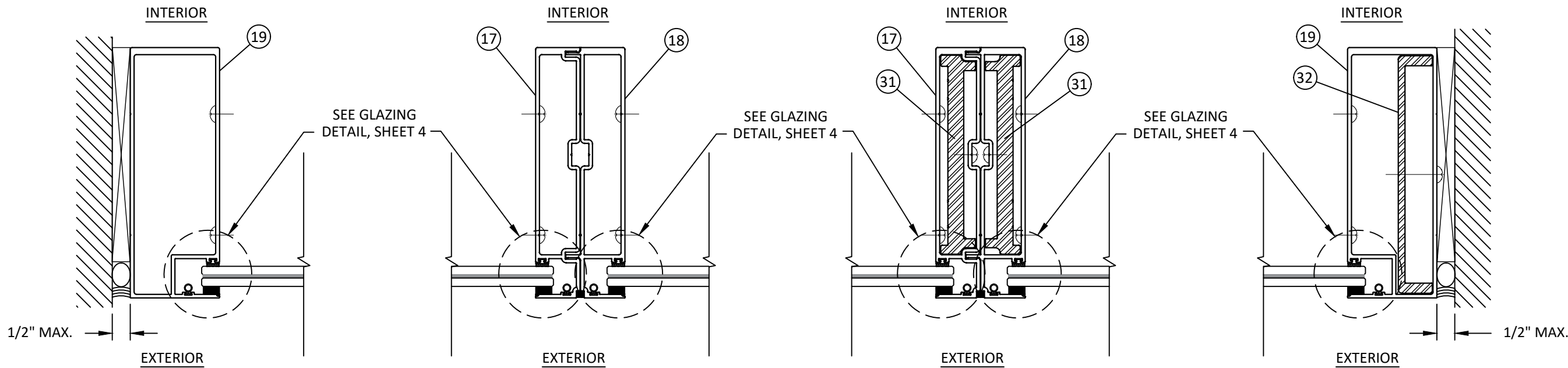
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CHK. BY: HFN

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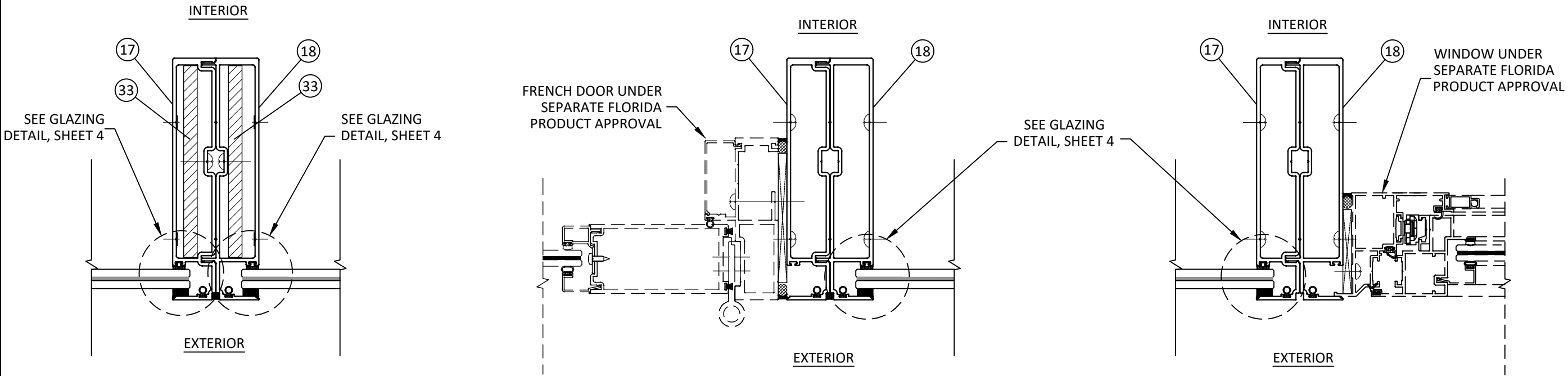
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SHEET: OF 16

12



R13 HORIZONTAL SECTION JAMB - J3 **S13 HORIZONTAL SECTION MULLION - M5** **T13 HORIZONTAL SECTION MULLION - M6** **U13 HORIZONTAL SECTION JAMB - J4**



V13 HORIZONTAL SECTION MULLION - M7 **W13 HORIZONTAL SECTION MULLION - M5** **X13 HORIZONTAL SECTION MULLION - M5**

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TITLE: GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)

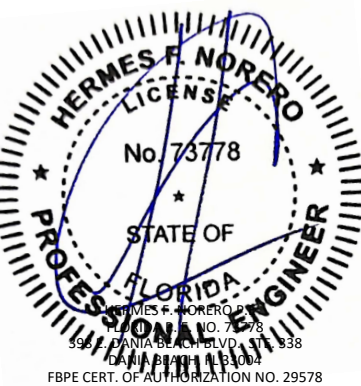
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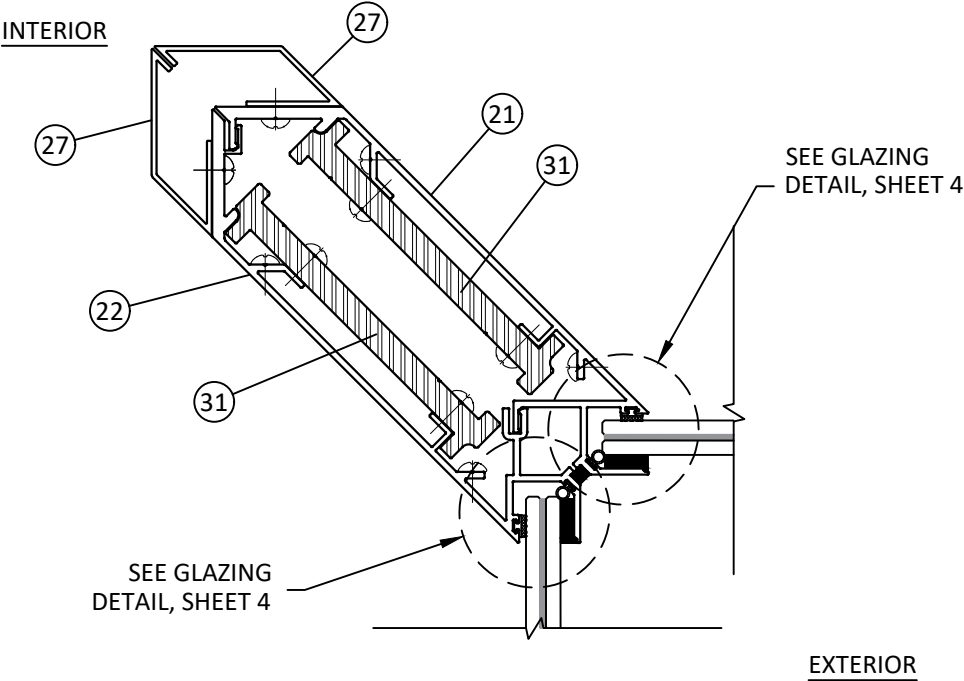


REMARKS	BY	DATE

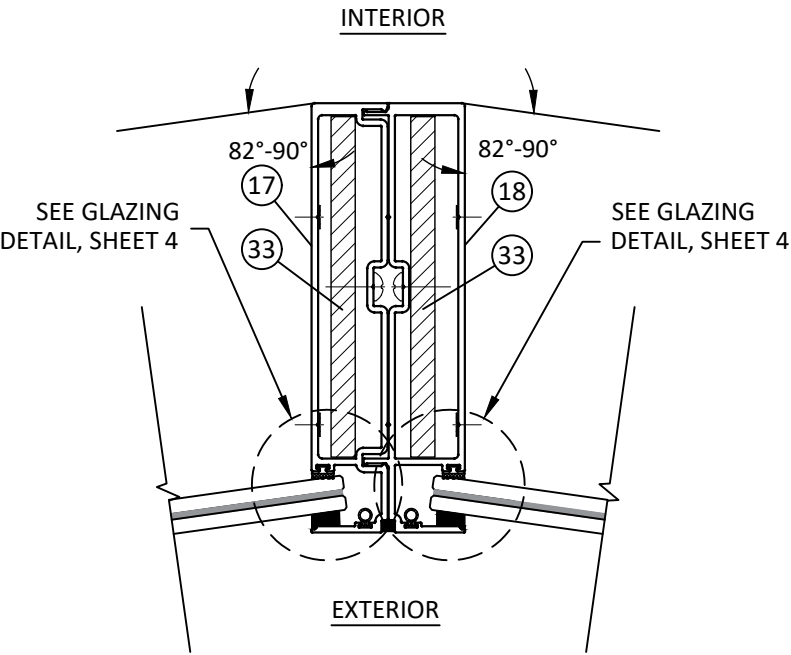
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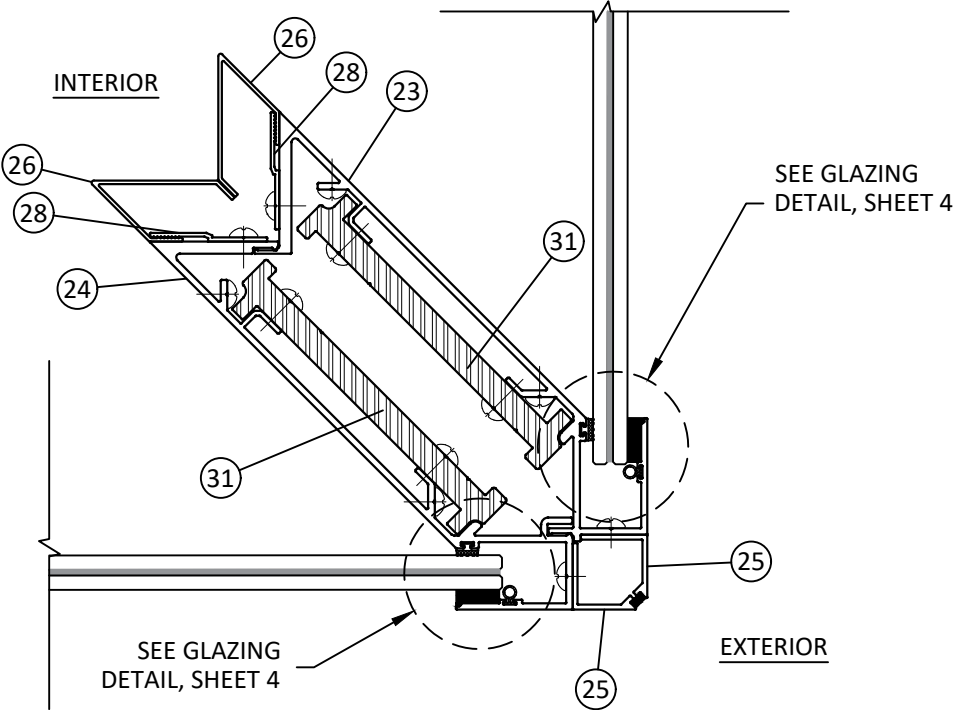
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DATE: 10.06.2023	
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SCALE: NTS	
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SHEET: 13	OF 16



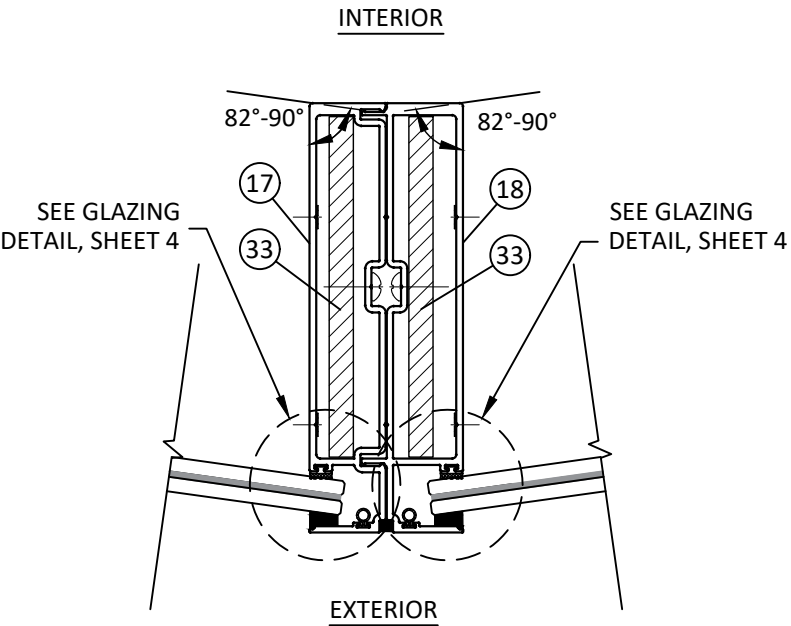
AA
14 HORIZONTAL SECTION
CORNER MULLION - C4



CC
14 HORIZONTAL SECTION
82-90 DEGREE MULLION



BB
14 HORIZONTAL SECTION
CORNER MULLION - C3



DD
14 HORIZONTAL SECTION
82-90 DEGREE MULLION

TITLE: GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)

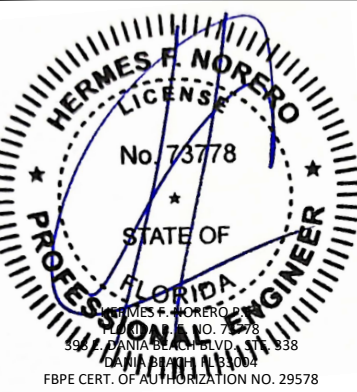
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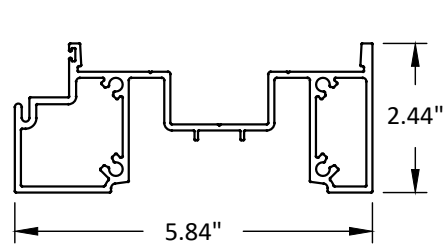
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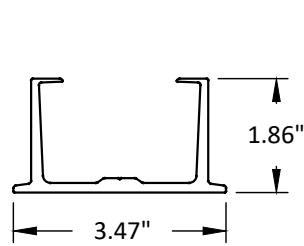
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SHEET: OF 16

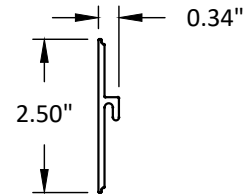
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ITEM	PART NO.	DESCRIPTION	MATERIAL
1	GLR-U96-01	TOP & BOTTOM	6005-T5
2	GLR-U96-02	ANCHOR	6005-T5
3	GLR-U96-03	GLASS STOP	6063-T6
4	GLR-U96-04	COVER	6063-T6
5	GLR-U96-05	INTERMEDIATE	6005-T5
6	GLR-U96-06	GLASS STOP	6063-T6
7	NOT USED	-	-
8	NOT USED	-	-
9	GLR-U97-09	COVER	6063-T6
10	GLR-U96-10	HEAD RECEPTOR	6005-T5
11	GLR-U96-11	COVER	6063-T6
12	GLR-U96-12	JAMB	6005-T5
13	GLR-U96-13	FEMALE MULLION	6005-T5
14	GLR-U96-14	MALE MULLION	6005-T5
15	GLR-U96-15	FEMALE MULLION	6005-T5
16	GLR-U96-16	MALE MULLION	6005-T5
17	GLR-U97-17	FEMALE MULLION	6005-T5
18	GLR-U97-18	MALE MULLION	6005-T5
19	GLR-U97-19	JAMB	6005-T5
20	GLR-U96-20	JAMB	6005-T5
21	GLR-U96-21	INNER CORNER FEMALE MULLION	6005-T5
22	GLR-U97-22	INNER CORNER MALE MULLION	6005-T5
23	GLR-U96-23	OUTER CORNER FEMALE MULLION	6005-T5
24	GLR-U96-24	OUTER CORNER MALE MULLION	6005-T5
25	GLR-U96-25	INNER CORNER FEMALE MULLION	6063-T6
26	GLR-U97-26	INNER CORNER MALE MULLION	6063-T6
27	GLR-U97-27	OUTER CORNER FEMALE MULLION	6063-T6
28	GLR-U97-28	OUTER CORNER MALE MULLION	6063-T6
29	GLR-U96-29	ALUMINUM REINFORCEMENT	6005-T5
30	GLR-U96-30	ALUMINUM REINFORCEMENT	6005-T5
31	GLR-U97-31	ALUMINUM REINFORCEMENT	6005-T5
32	GLR-U97-32	ALUMINUM REINFORCEMENT	6005-T5
33	-	STEEL REINFORCEMENT	STEEL
34	-	#14X1" COUNTERSUNK SCREW	STEEL
35	-	SETTING BLOCK	EPDM
36	-	GLASS GASKET	EPDM
37	-	#14X1" PAN HEAD SMS	STEEL
38		WASHER	STEEL
39		ADJUSTING BOLT	STEEL
40	NOT USED	-	-
41		SCREW	STEEL
42		GASKET	EPDM



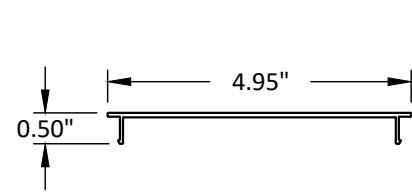
1 TOP & BOTTOM



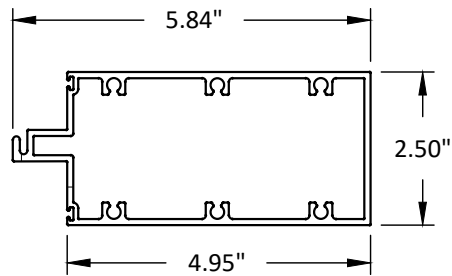
2 ANCHOR



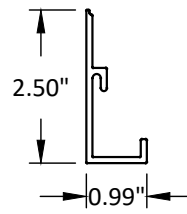
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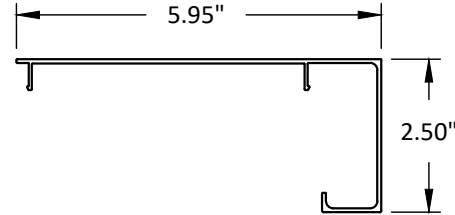
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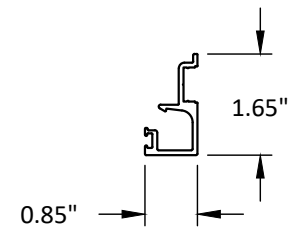
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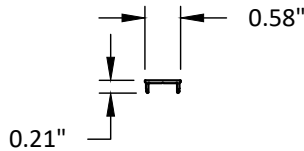
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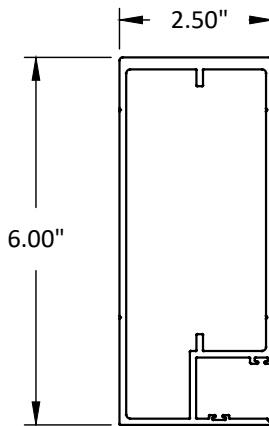
9 COVER



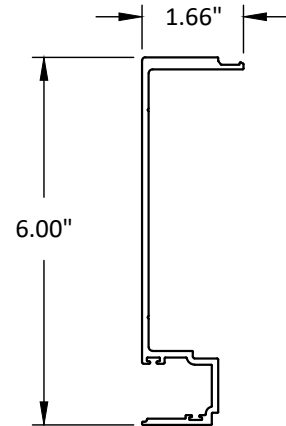
10 HEAD RECEPTOR



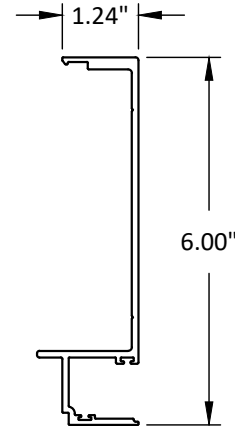
11 COVER



12 JAMB



13 FEMALE MULLION



14 MALE MULLION

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PH: (305)815-8797

TITLE: GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)

BILL OF MATERIALS & COMPONENTS

PREPARED BY: BUILDING DROPS, INC.

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DWG. BY:
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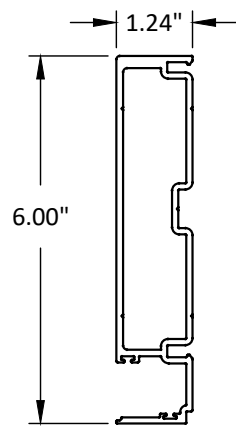
CHK. BY:
HFN

SCALE: NTS

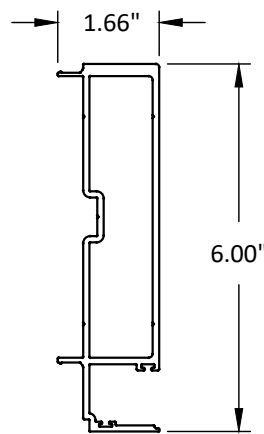
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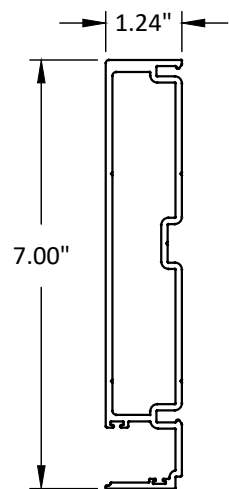
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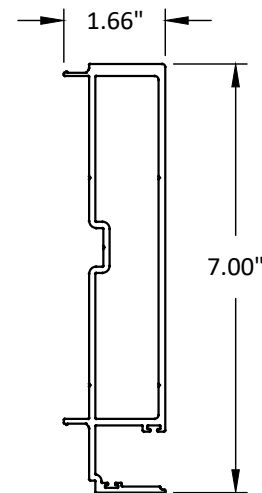
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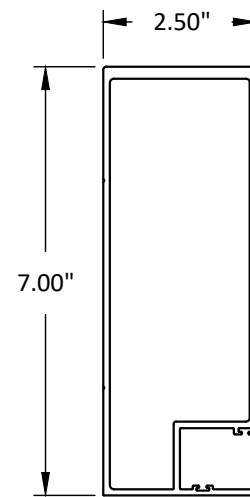
16 MALE MULLION



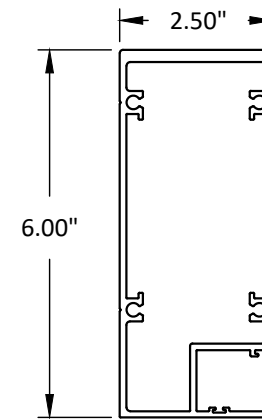
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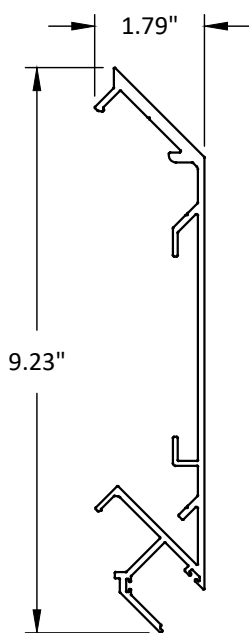
18 MALE MULLION



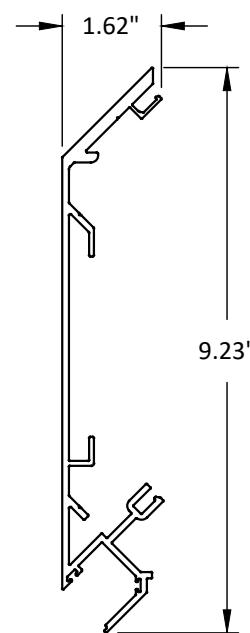
19 JAMB



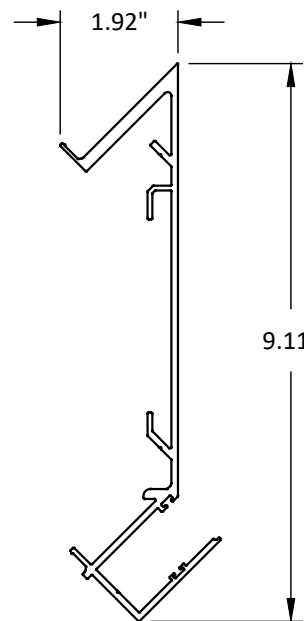
20 JAMB



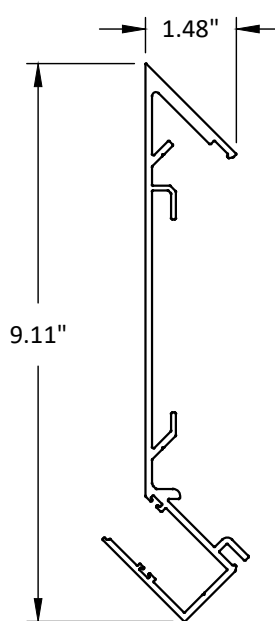
21 INNER CORNER FEMALE MULLION



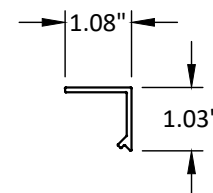
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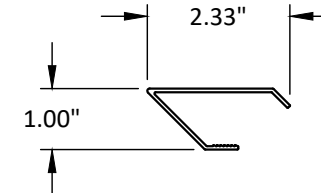
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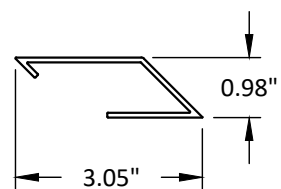
24 OUTER CORNER MALE MULLION



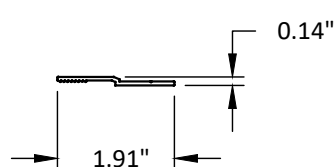
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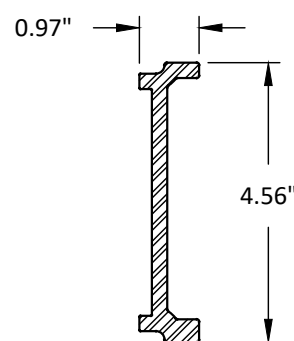
26 INNER CORNER MALE MULLION



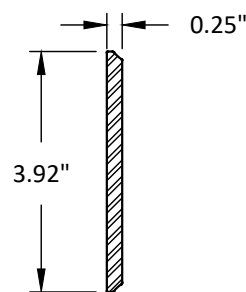
27 OUTER CORNER FEMALE MULLION



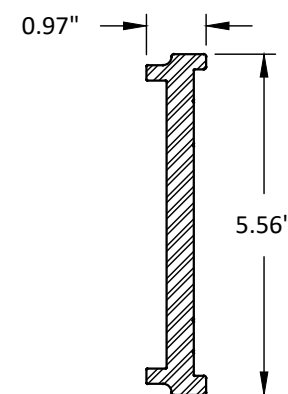
28 OUTER CORNER MALE MULLION



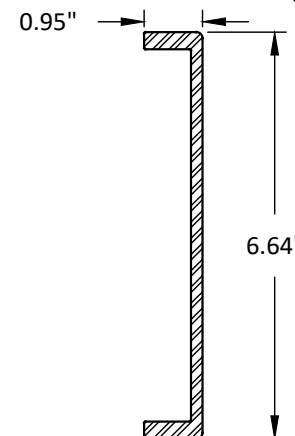
29 ALUMINUM REINFORCEMENT



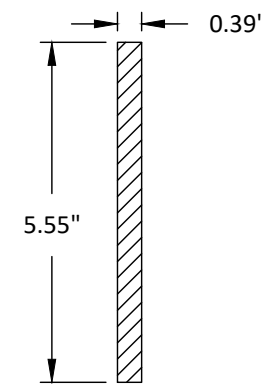
30 ALUMINUM REINFORCEMENT



31 ALUMINUM REINFORCEMENT



32 ALUMINUM REINFORCEMENT



33 STEEL REINFORCEMENT

TITLE: GLR-U96 & GLR-U97
WINDOW WALL SYSTEMS - SMI
(HVHZ)(IMPACT)

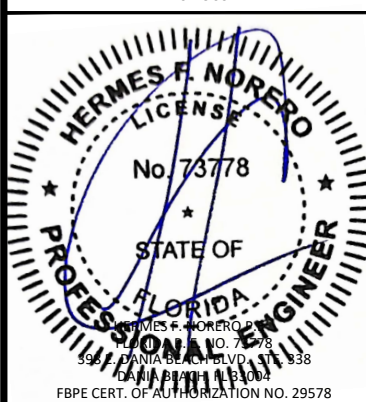
COMPONENTS

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FAX: (954)744-4738
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REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE
GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS
FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE
INSTALLATION TO DEVIATE FROM THE REQUIREMENTS
DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT
SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE
WITH THIS DOCUMENT.



FL41922

DATE: 10.06.2023

DWG. BY:
SH

CHK. BY:
HFN

SCALE: NTS

DWG. #: LRA023

SHEET: OF 16

16