

panoramah! (Jofebar S.A.)

ah!38 MULLED FIXED WINDOW

(HVHZ)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- TAS 201-94

TAS 202-94

TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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.
6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
7. GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 7 FOR GLAZING DETAIL.

INSTALLATION NOTES:

1. TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEETS 4 & 5.
2. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
4. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
5. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 5.1. FASTENERS USED WITHIN 3000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
- 5.2. CONNECTORS AND METAL PLATES USED WITHIN 3000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
6. FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
7. 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.
8. 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.

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SHEET	SHEET DESCRIPTION
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4	ANCHOR LAYOUT
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7	GLAZING DETAIL AND GLASS CAPACITY TABLES
8	VERTICAL SECTIONS
9	HORIZONTAL SECTIONS
10	ANCHOR DETAILS & ANCHOR SCHEDULE

DESIGN PRESSURE RATING (PSF)				
CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
SEE SHEETS 2, 3, & 5	SEE TABLES ON SHEETS 6 & 7			LARGE & SMALL MISSILE IMPACT

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ah!38 MULLED
FIXED WINDOW
(HVHZ)(IMPACT)
GENERAL NOTES &
INSTALLATION NOTES

TITLE:

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

B.D.

BUILDING DROPS

REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.15 17:30:49 -03'00'

HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL48366

DATE:

10.16.2024

DWG. BY:

SH

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

JFB007

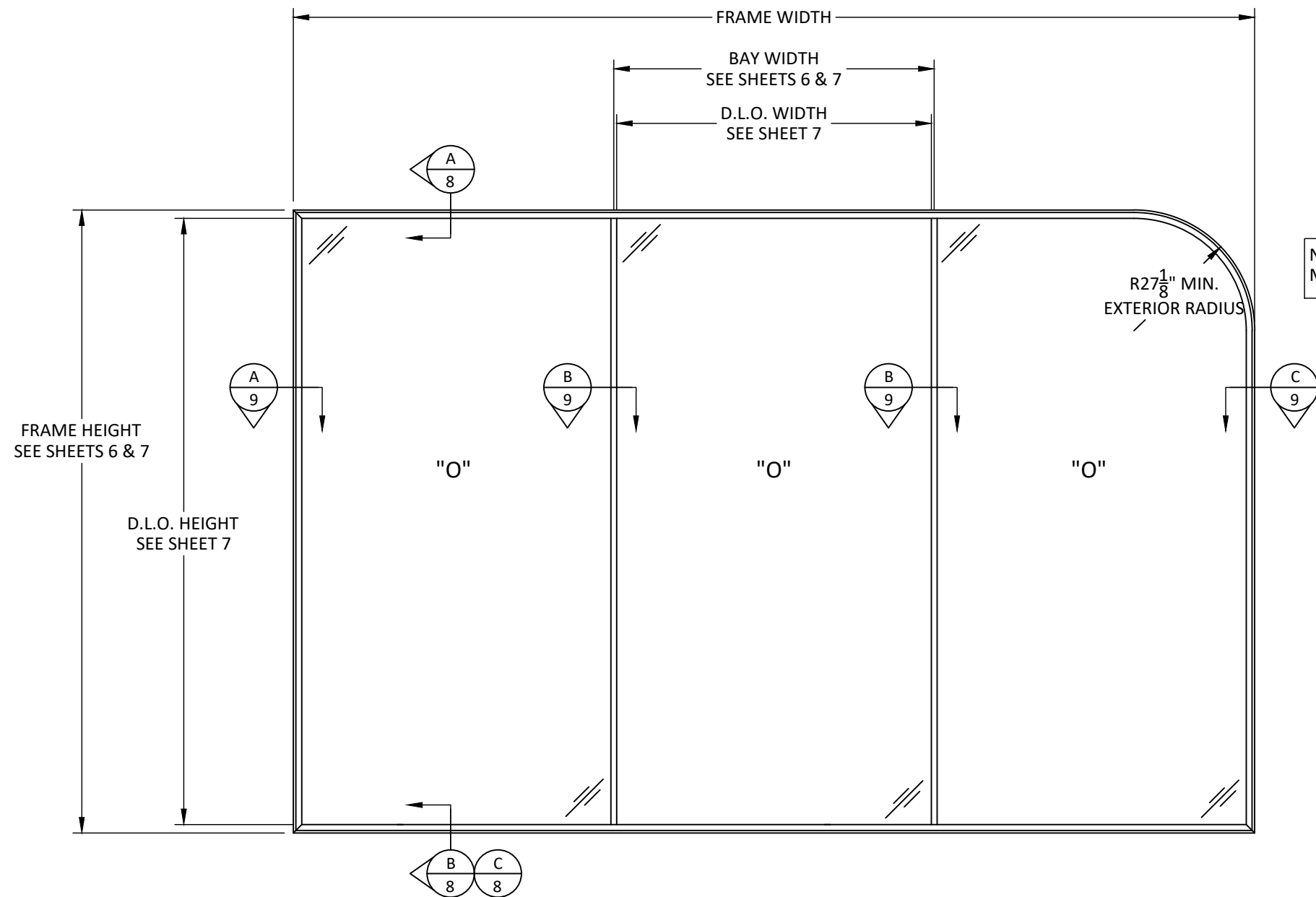
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NOTE: RADIUS GLASS QUALIFIED ON
MULLED AND SINGLE CONFIGURATIONS.

ELEVATION
MULLED

D.L.O. HEIGHT = FRAME HEIGHT - 3.78"
D.L.O. WIDTH = BAY WIDTH - 1.31"
NOMINAL FRAME WIDTH = # OF BAYS X BAY WIDTH

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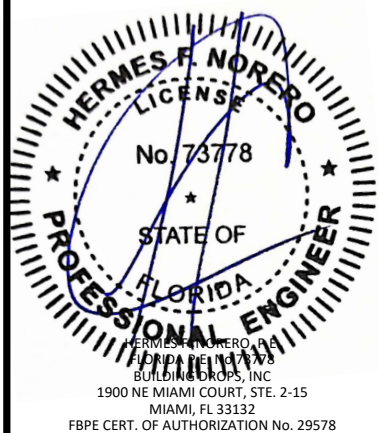
TITLE: ah!38 MULLED
FIXED WINDOW
(HVHZ)/(IMPACT)
MULLED ELEVATION

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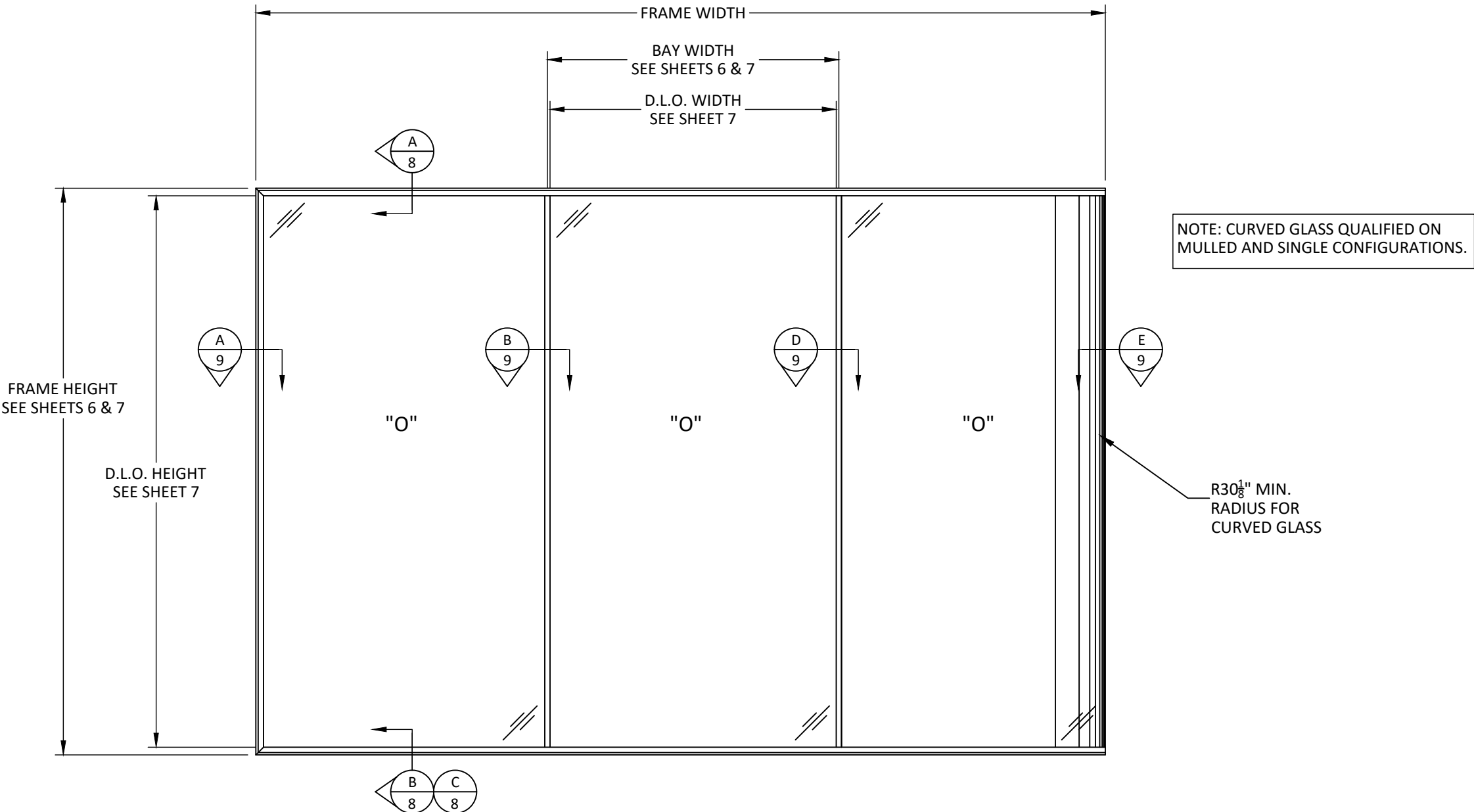
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ELEVATION
MULLED WITH CURVED GLASS

D.L.O. HEIGHT = FRAME HEIGHT - 3.78"
D.L.O. WIDTH = BAY WIDTH - 1.31"
NOMINAL FRAME WIDTH = # OF BAYS X BAY WIDTH

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ah!38 MULLED
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(HVHZ)/(IMPACT)

MULLED CURVED ELEVATION

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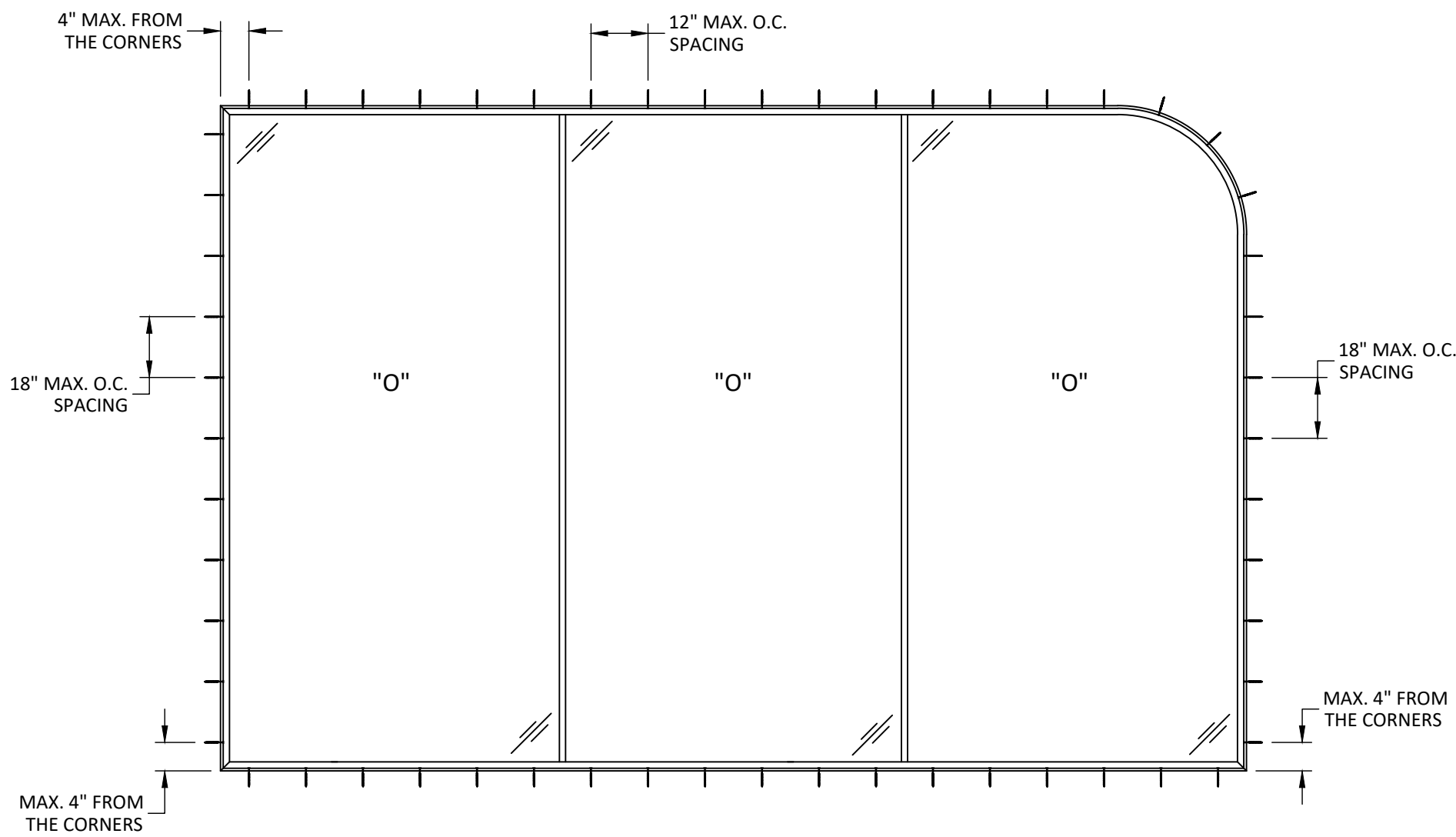
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ANCHOR LAYOUT
THROUGH FRAME INSTALLATION

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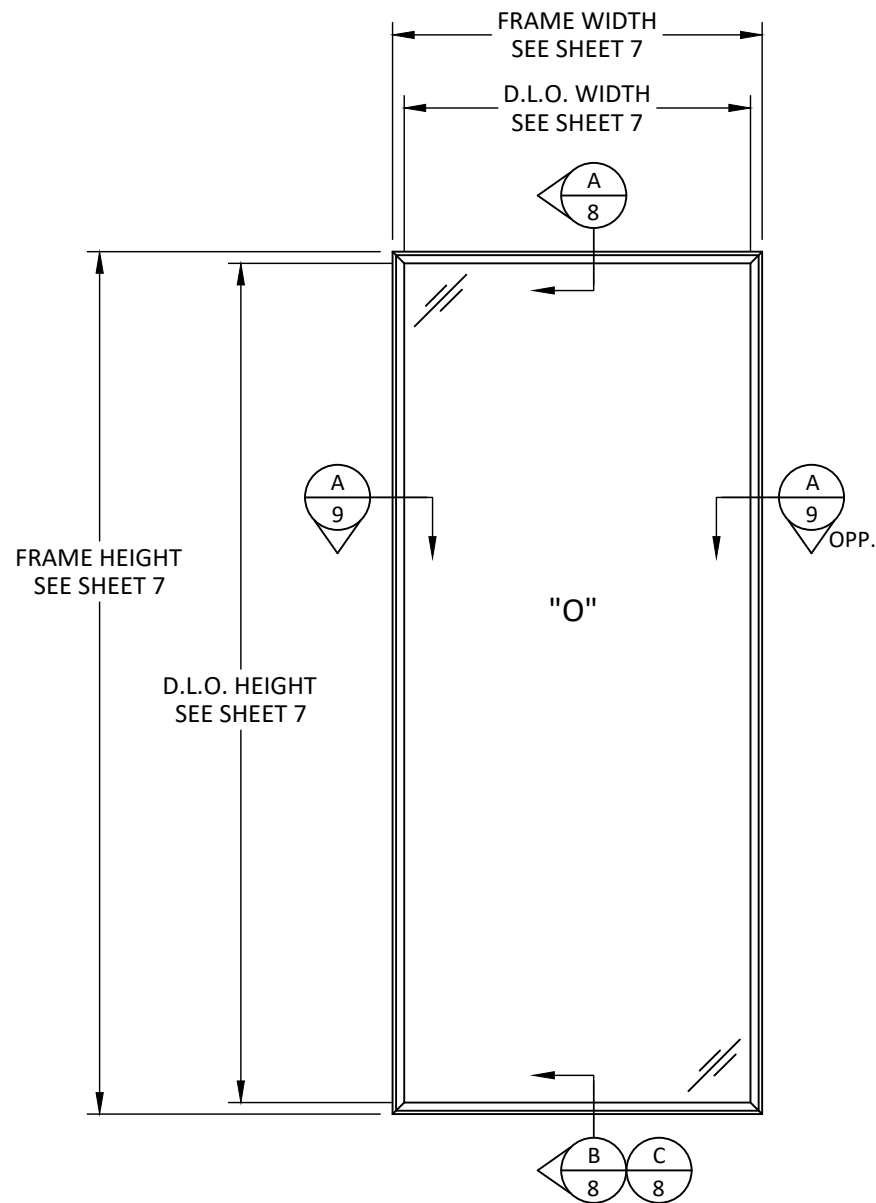
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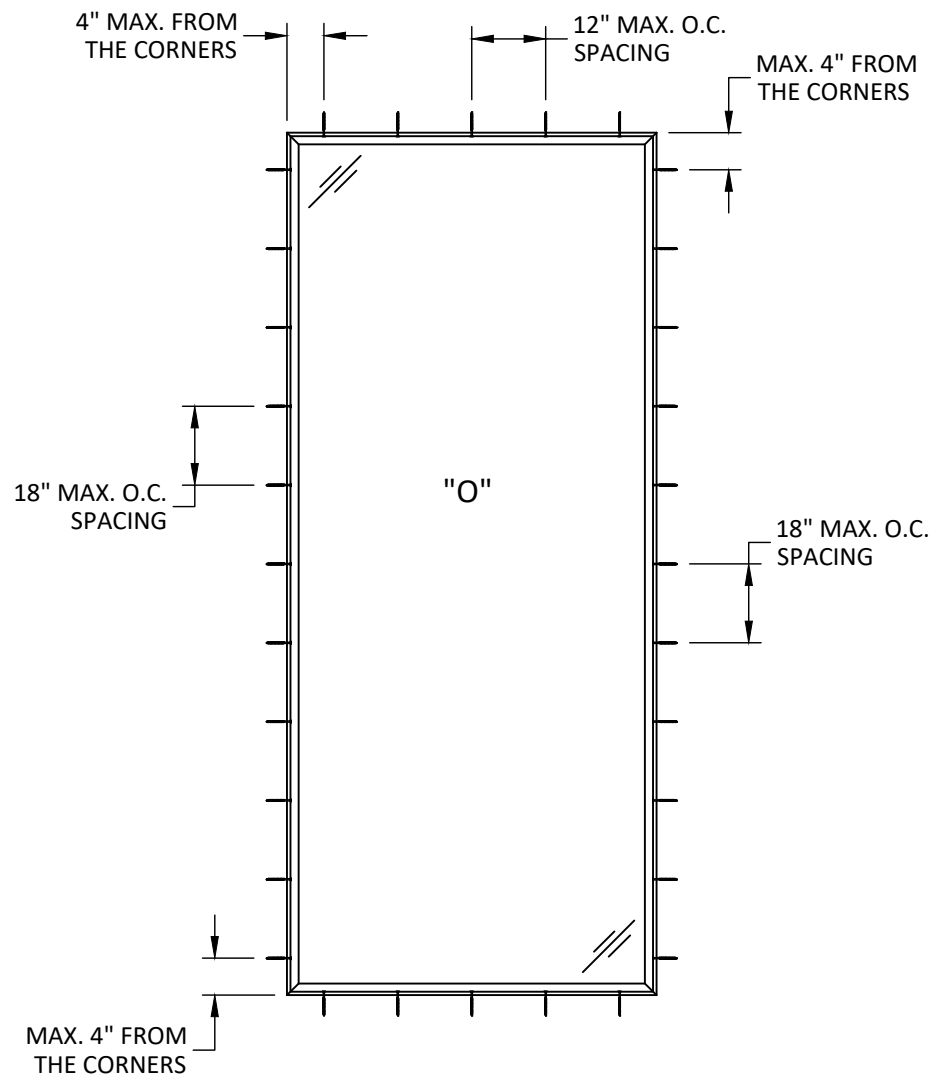
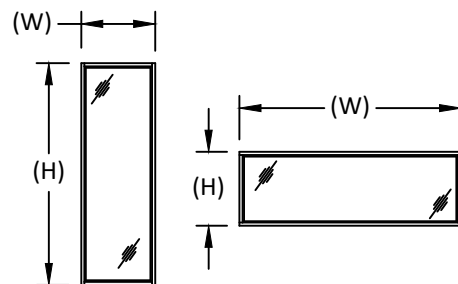
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ELEVATION
SINGLE FIXED

FRAME HEIGHT = D.L.O. HEIGHT + 3.78"
FRAME WIDTH = D.L.O. WIDTH + 3.78"



ANCHOR LAYOUT
THROUGH FRAME INSTALLATION

NOTE:
WINDOW WIDTH (W) AND HEIGHT (H) ARE
INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN
NOT TO EXCEED MAXIMUM TESTED SQUARE FOOT
AREA. ANCHOR SPACING SHALL NOT EXCEED
THOSE SHOWN FOR LONG OR SHORT LEG OF UNIT.

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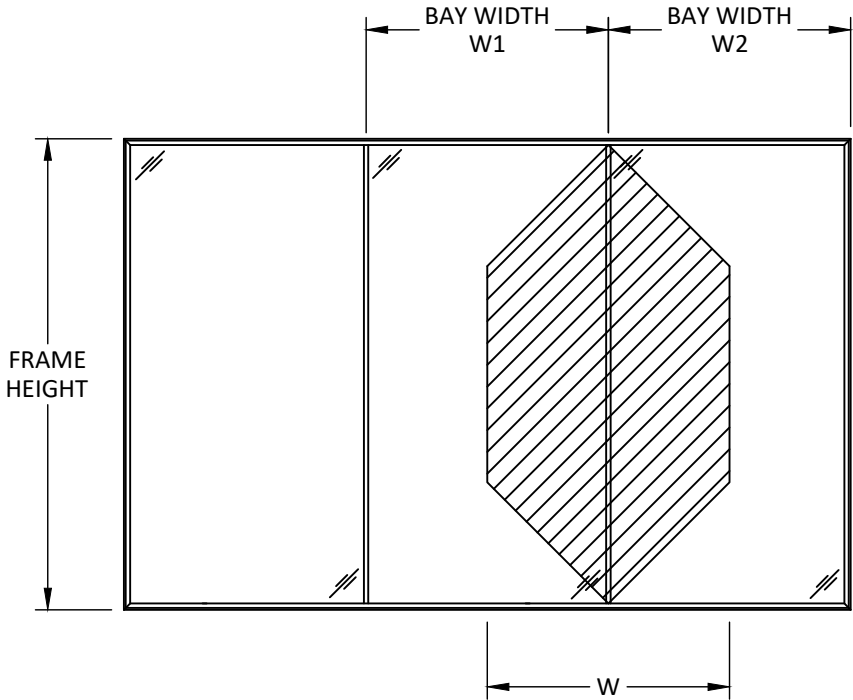
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DESIGN PRESSURE TABLE (PSF)			
'W' - WIDTH (IN.)"	FRAME HEIGHT (IN.)	MULLION	
		+	-
24	48	85.0	-85.0
36		75.0	-75.0
48		75.0	-75.0
60		75.0	-75.0
72		75.0	-75.0
84		75.0	-75.0
96		75.0	-75.0
108		75.0	-75.0
120		75.0	-75.0
132		70.0	-70.0
144		70.0	-70.0
152		50.0	-55.0
156	60	50.0	-55.0
170		50.0	-55.0
180		50.0	-55.0
24		85.0	-85.0
36		75.0	-75.0
48		75.0	-75.0
60		75.0	-75.0
72		75.0	-75.0
84		75.0	-75.0
96		75.0	-75.0
108		70.0	-70.0
120		70.0	-70.0
132		50.0	-55.0
144		50.0	-55.0
152		50.0	-55.0
156		50.0	-55.0
170		50.0	-55.0
180		50.0	-55.0
24	72	75.0	-75.0
36		75.0	-75.0
48		75.0	-75.0
60		75.0	-75.0
72		75.0	-75.0
84		75.0	-75.0
96		70.0	-70.0
108		50.0	-55.0
120		50.0	-55.0
132		50.0	-55.0
144		50.0	-55.0
152		50.0	-55.0
156		50.0	-55.0
170		50.0	-55.0
180		50.0	-55.0

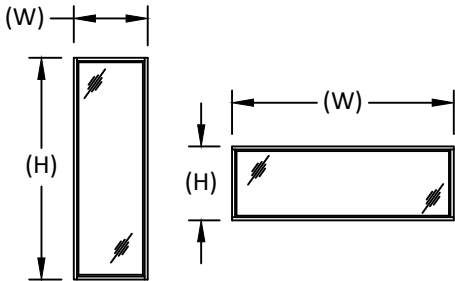
DESIGN PRESSURE TABLE (PSF)			
'W' - WIDTH (IN.)"	FRAME HEIGHT (IN.)	MULLION	
		+	-
24	84	75.0	-75.0
36		75.0	-75.0
48		75.0	-75.0
60		75.0	-75.0
72		75.0	-75.0
84		70.0	-70.0
96		50.0	-55.0
108		50.0	-55.0
120		50.0	-55.0
132		50.0	-55.0
144		50.0	-55.0
152		50.0	-55.0
156	96	50.0	-55.0
170		50.0	-55.0
180		50.0	-55.0
24		75.0	-75.0
36		75.0	-75.0
48		75.0	-75.0
60		75.0	-75.0
72		70.0	-70.0
84		50.0	-55.0
96		50.0	-55.0
108		50.0	-55.0
120		50.0	-55.0
132		50.0	-55.0
144		50.0	-55.0
152		50.0	-55.0
156		50.0	-55.0
170		50.0	-55.0
24	108	75.0	-75.0
36		75.0	-75.0
48		75.0	-75.0
60		70.0	-70.0
72		50.0	-55.0
84		50.0	-55.0
96		50.0	-55.0
108		50.0	-55.0
120		50.0	-55.0
132		50.0	-55.0
144		50.0	-55.0
152		50.0	-55.0
156	120	75.0	-75.0
170		75.0	-75.0
180		75.0	-75.0
24		70.0	-70.0
36		50.0	-55.0
48		50.0	-55.0
60		50.0	-55.0
72		50.0	-55.0
84		50.0	-55.0
96		50.0	-55.0
108		50.0	-55.0
120		50.0	-55.0
132		50.0	-55.0

NOTE: THE LOWER DESIGN PRESSURE BETWEEN THE TABLES ON THIS SHEET AND THE TABLES ON SHEET 7 SHALL APPLY TO THE ENTIRE MULLED SYSTEM.

DESIGN PRESSURE TABLE (PSF)			
'W' - WIDTH (IN.)"	FRAME HEIGHT (IN.)	MULLION	
		+	-
24	132	75.0	-75.0
36		75.0	-75.0
48		62.6	-62.6
60		50.0	-55.0
72		50.0	-55.0
84		50.0	-55.0
96		50.0	-55.0
108		50.0	-55.0
120		50.0	-55.0
24	144	75.0	-75.0
36		75.0	-75.0
48		50.0	-55.0
60		50.0	-55.0
72		50.0	-55.0
84		50.0	-55.0
96		50.0	-55.0
108		50.0	-55.0
120		50.0	-55.0
24	152	75.0	-75.0
36		75.0	-75.0
48		50.0	-55.0
60		50.0	-55.0
72		50.0	-55.0
84		50.0	-55.0
96		50.0	-55.0
102		50.0	-55.0
24	156	75.0	-75.0
36		75.0	-75.0
48		50.0	-55.0
60		50.0	-55.0
72		50.0	-55.0
84		50.0	-55.0
96		50.0	-55.0
102		50.0	-55.0
24	168	75.0	-75.0
36		61.1	-61.1
48		50.0	-55.0
60		50.0	-55.0
72		50.0	-55.0
84		50.0	-55.0
24	170	75.0	-75.0
36		50.0	-55.0
48		50.0	-55.0
60		50.0	-55.0
72		50.0	-55.0
84		50.0	-55.0
96		50.0	-55.0



WIDTH - (W) = (W1+W2)/2



NOTE:
WINDOW WIDTH (W) AND HEIGHT (H) ARE INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM TESTED SQUARE FOOT AREA. ANCHOR SPACING SHALL NOT EXCEED THOSE SHOWN FOR LONG OR SHORT LEG OF UNIT.

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ah138 MULLED
FIXED WINDOW
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DESIGN PRESSURE TABLES

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CHK. BY:
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SECTION:

6

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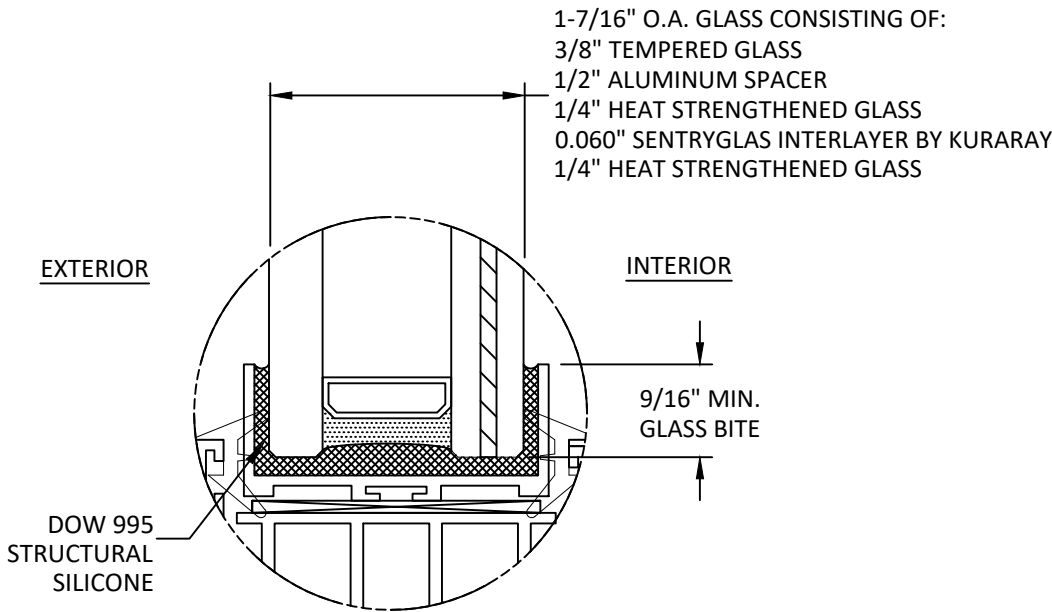
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DESIGN PRESSURE TABLE (PSF)					
BAY WIDTH (IN.)	FRAME HEIGHT (IN.)	FLAT GLASS		CURVED GLASS	
		+	-	+	-
24	48	85.0	-85.0	75.0	-75.0
36		75.0	-75.0	75.0	-75.0
48		70.0	-70.0	62.5	-62.5
24	60	85.0	-85.0	75.0	-75.0
36		75.0	-75.0	75.0	-75.0
48		70.0	-70.0	62.5	-62.5
60		70.0	-70.0	50.0	-50.0
24	72	75.0	-75.0	75.0	-75.0
36		75.0	-75.0	75.0	-75.0
48		70.0	-70.0	62.5	-62.5
60		70.0	-70.0	50.0	-50.0
72	84	58.3	-58.3	41.7	-41.7
24		75.0	-75.0	75.0	-75.0
36		75.0	-75.0	75.0	-75.0
48		70.0	-70.0	62.5	-62.5
60	96	70.0	-70.0	50.0	-50.0
72		58.3	-58.3	-	-
84		50.0	-55.0	-	-
36		75.0	-75.0	75.0	-75.0
48	108	70.0	-70.0	62.5	-62.5
60		70.0	-70.0	50.0	-50.0
72		58.3	-58.3	-	-
84		50.0	-55.0	-	-
96	120	50.0	-55.0	-	-
36		75.0	-75.0	75.0	-75.0
48		70.0	-70.0	62.5	-62.5
60		70.0	-70.0	-	-
72	84	50.0	-55.0	-	-
84		50.0	-55.0	-	-

*NOTE: BAY WIDTH = FRAME WIDTH
FOR SINGLE UNITS

DESIGN PRESSURE TABLE (PSF)					
BAY WIDTH (IN.)	FRAME HEIGHT (IN.)	FLAT GLASS		CURVED GLASS	
		+	-	+	-
36	132	75.0	-75.0	75.0	-75.0
48		70.0	-70.0	-	-
60		50.0	-55.0	-	-
72		50.0	-55.0	-	-
84		50.0	-55.0	-	-
96		50.0	-55.0	-	-
108		44.4	-48.9	-	-
120		40.0	-44.0	-	-
36	144	75.0	-75.0	75.0	-75.0
48		70.0	-70.0	-	-
60		50.0	-55.0	-	-
72		50.0	-55.0	-	-
84		50.0	-55.0	-	-
96		50.0	-55.0	-	-
108		44.4	-48.9	-	-
36	152	75.0	-75.0	75.0	-75.0
48		70.0	-70.0	-	-
60		50.0	-55.0	-	-
72		50.0	-55.0	-	-
84		50.0	-55.0	-	-
96		50.0	-55.0	-	-
102		47.1	-51.8	-	-
36	156	44.4	-48.9	75.0	-75.0
48		70.0	-70.0	-	-
60		50.0	-55.0	-	-
72		50.0	-55.0	-	-
84		50.0	-55.0	-	-
96		50.0	-55.0	-	-
102		50.0	-55.0	-	-
36	170	47.1	-51.8	-	-
48		75.0	-75.0	-	-
60		50.0	-55.0	-	-
72		50.0	-55.0	-	-
84		50.0	-55.0	-	-
96		50.0	-55.0	-	-



GLAZING DETAIL 1

- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.

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ah!38 MULLED
FIXED WINDOW
(HVHZ)/(IMPACT)

GLAZING DETAIL &
GLASS CAPACITY TABLES

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REMARKS	BY	DATE

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL48366

DATE: **10.16.2024**

DWG. BY:
SH

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **JFB007**

SECTION:

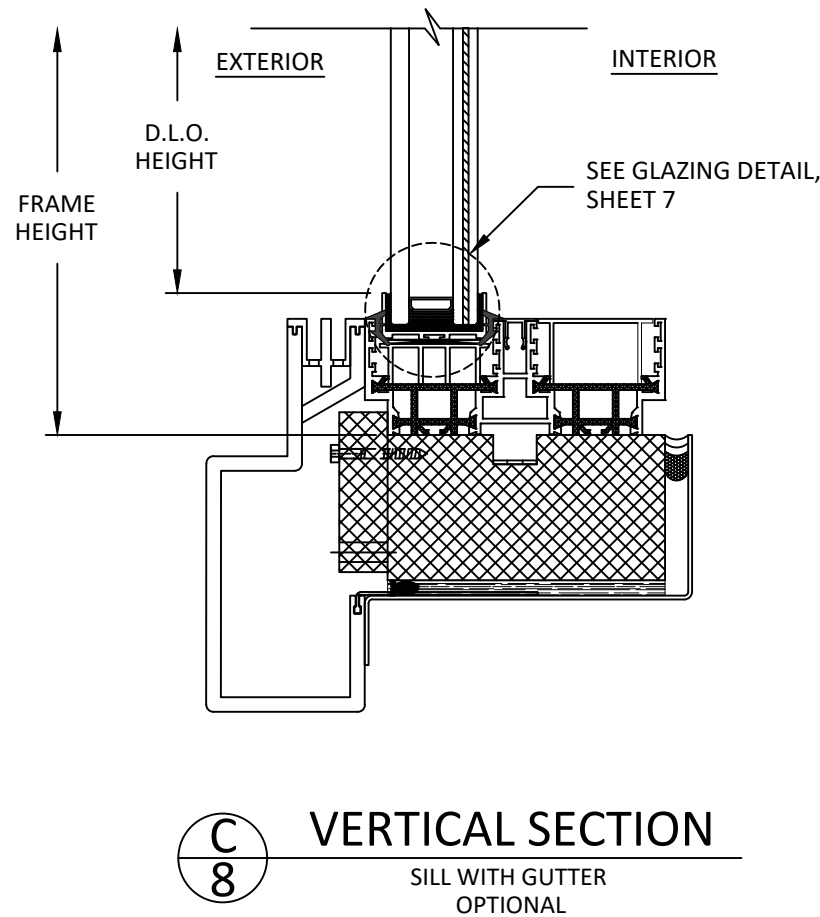
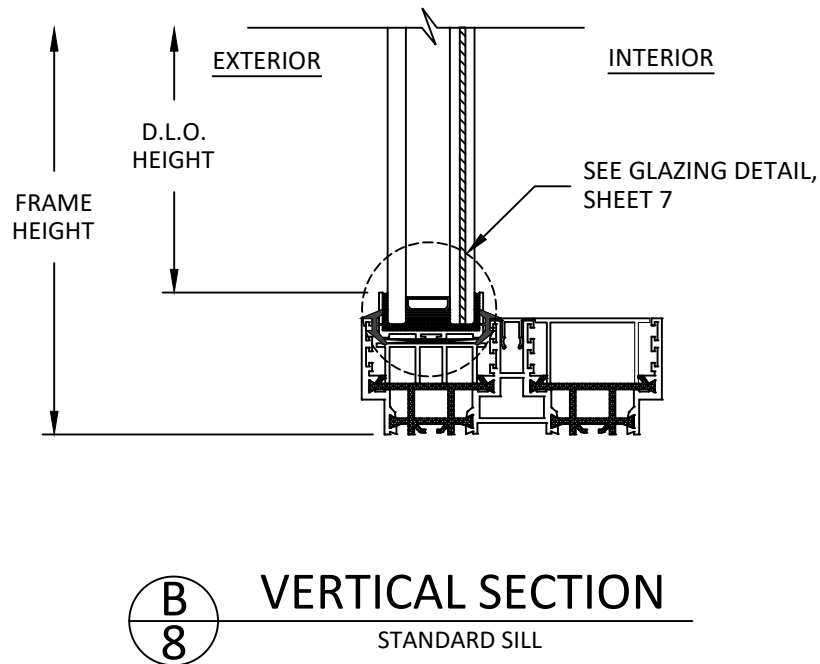
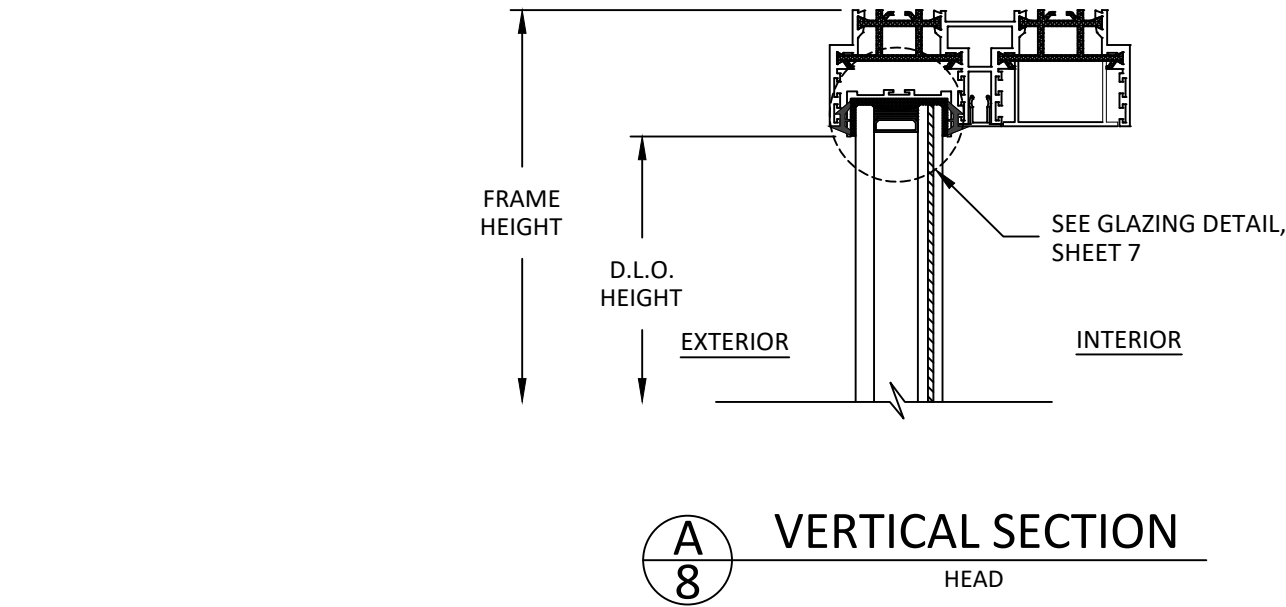
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VERTICAL SECTIONS

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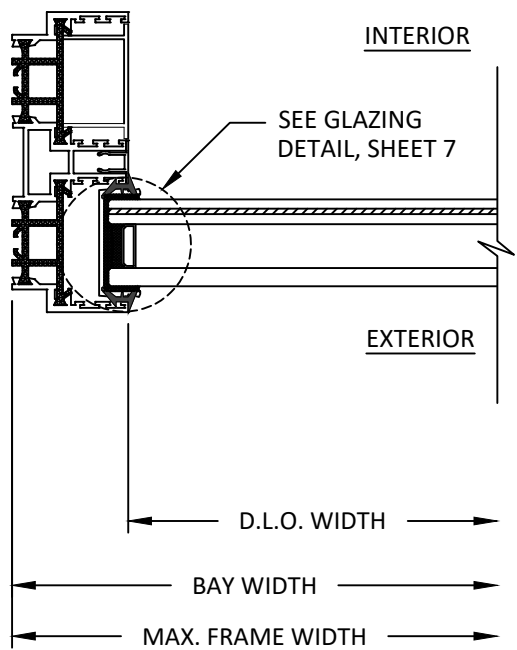
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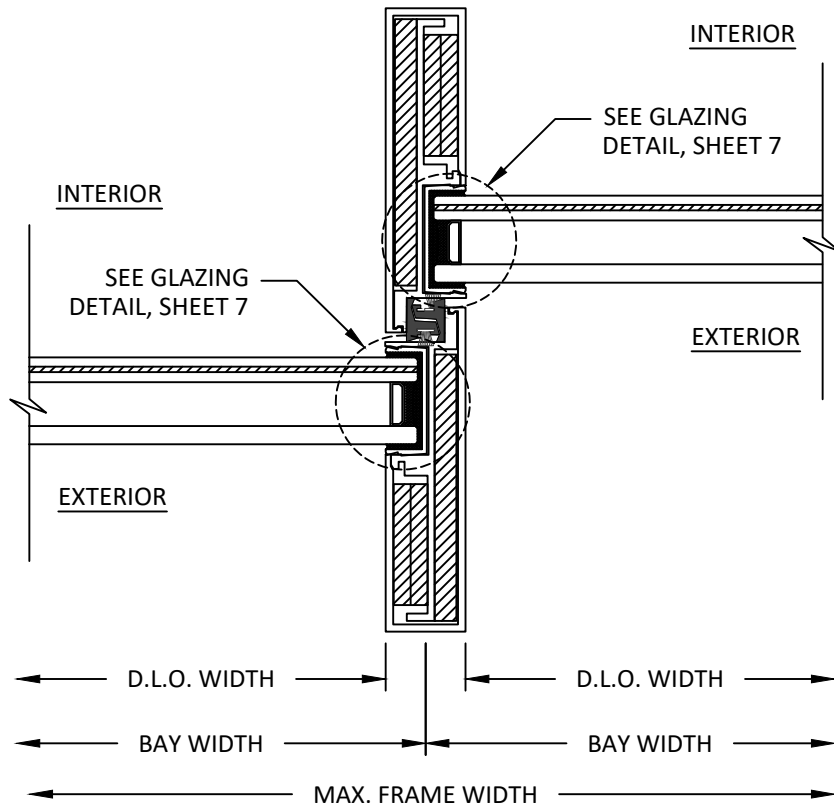


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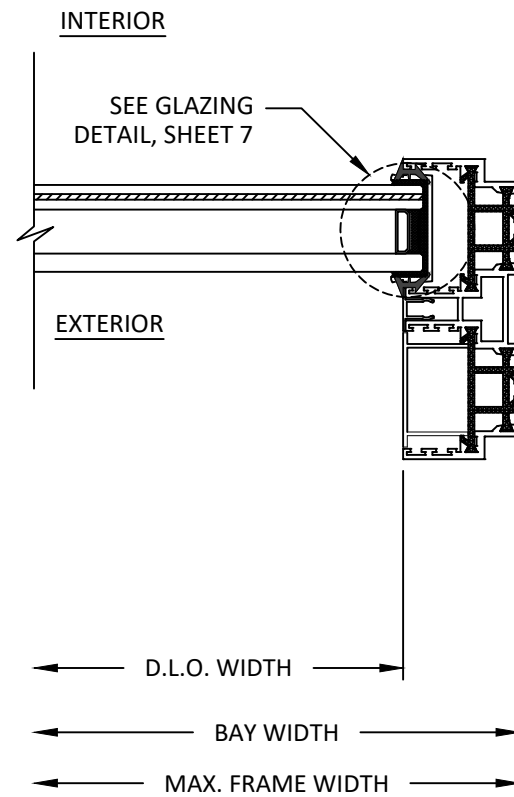
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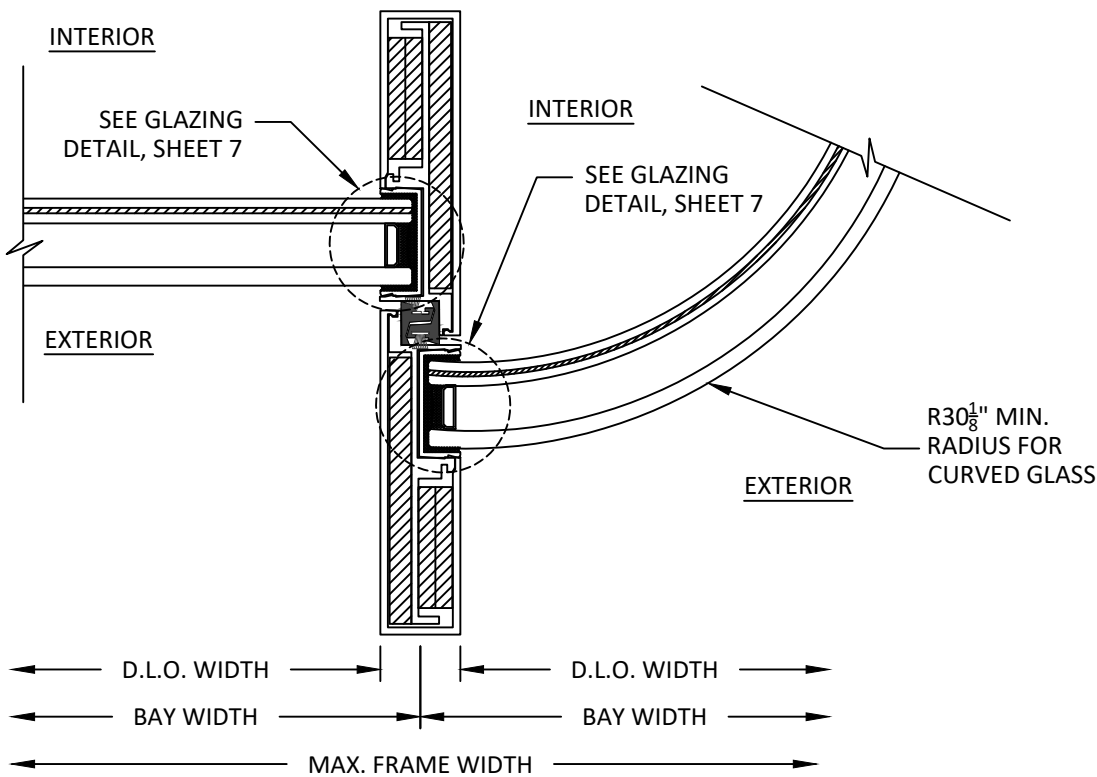
A
9 HORIZONTAL SECTION
JAMB



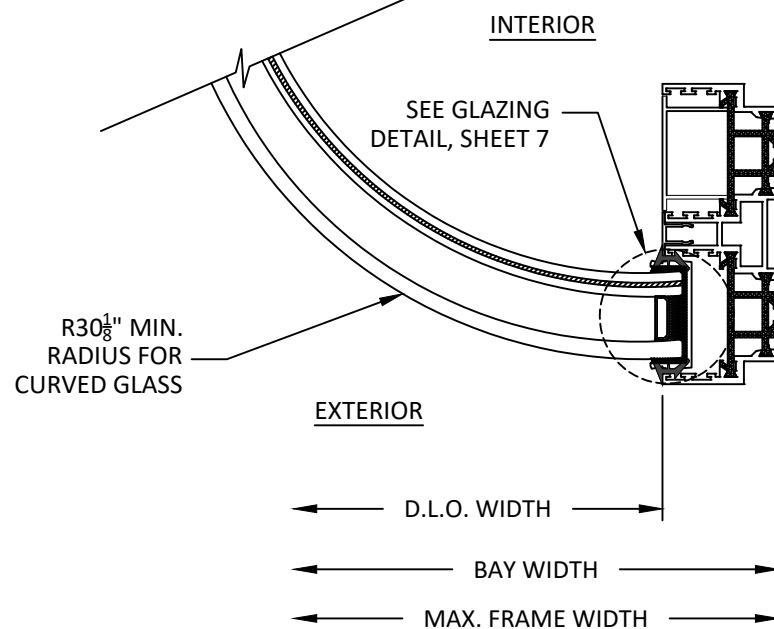
B
9 HORIZONTAL SECTION
MULLION INTERLOCK



C
9 HORIZONTAL SECTION
JAMB



D
9 HORIZONTAL SECTION
MULLION INTERLOCK
CURVED GLASS



E
9 HORIZONTAL SECTION
JAMB
CURVED GLASS

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HORIZONTAL SECTIONS

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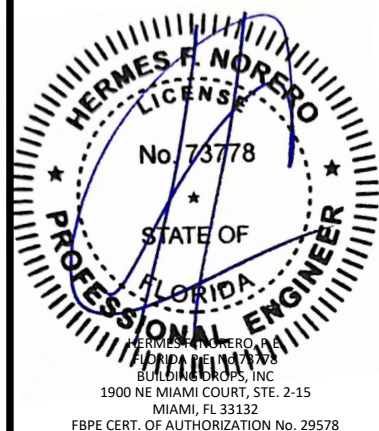
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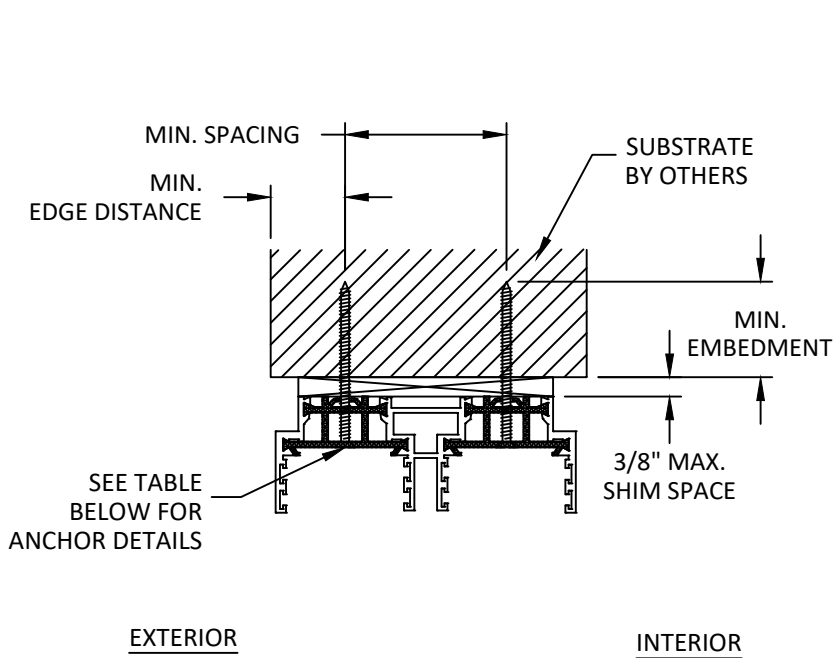
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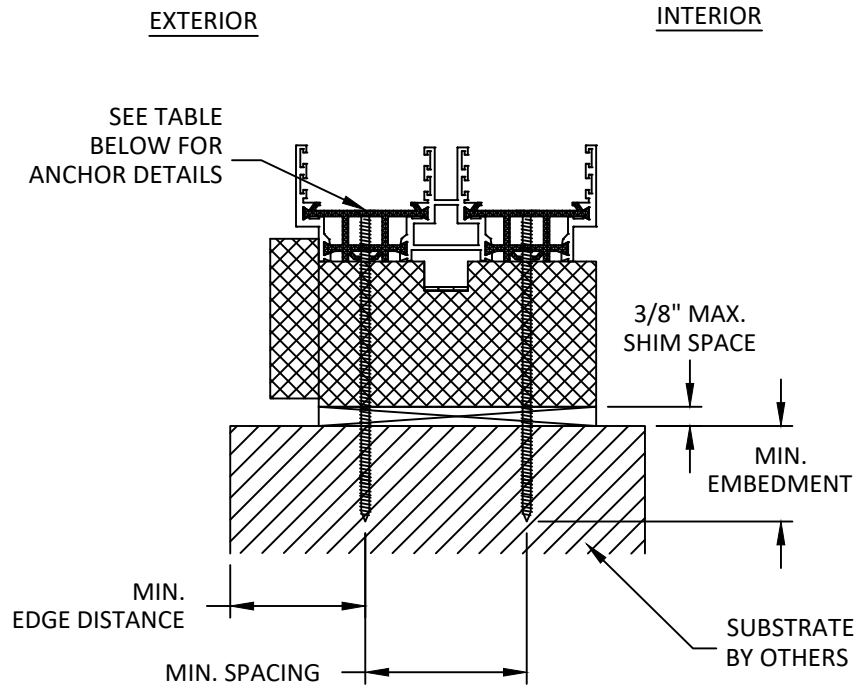


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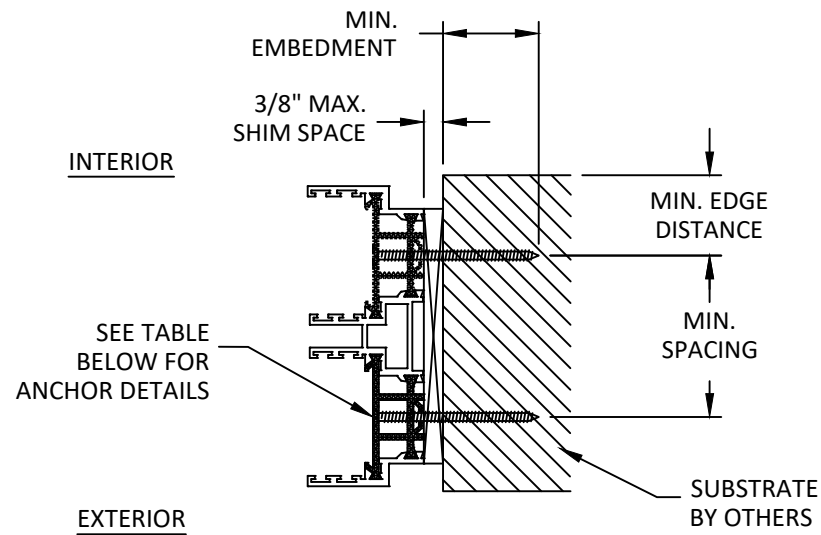
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A
10 VERTICAL SECTION
HEAD - THROUGH FRAME



B
10 VERTICAL SECTION
SILL - THROUGH FRAME



C
10 HORIZONTAL SECTION
JAMB - THROUGH FRAME

ANCHOR SCHEDULE					
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MIN. SPACING
THROUGH FRAME	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"	2.625"
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"	
	CONCRETE: f'c = 3000 PSI	1/4" ITW TAPCON	1.50"	2.50"	
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	2.50"	

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