

LINEA ROSSA LLC

LR-480 ALUMINUM BI-FOLD DOOR

(HVHZ)(IMPACT)

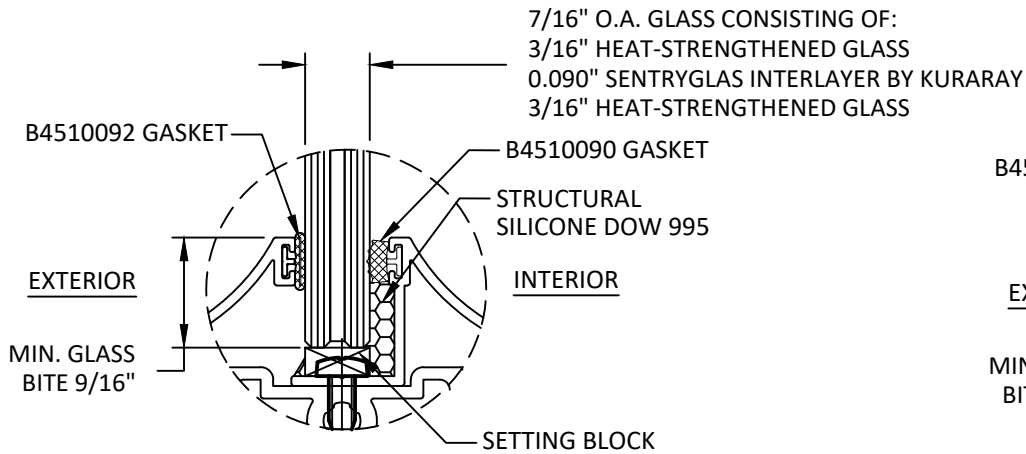
GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- 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.
- 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.
- 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 IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI- DADE RER.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- DOOR FRAME MATERIAL: ALUMINUM 6063-T6
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

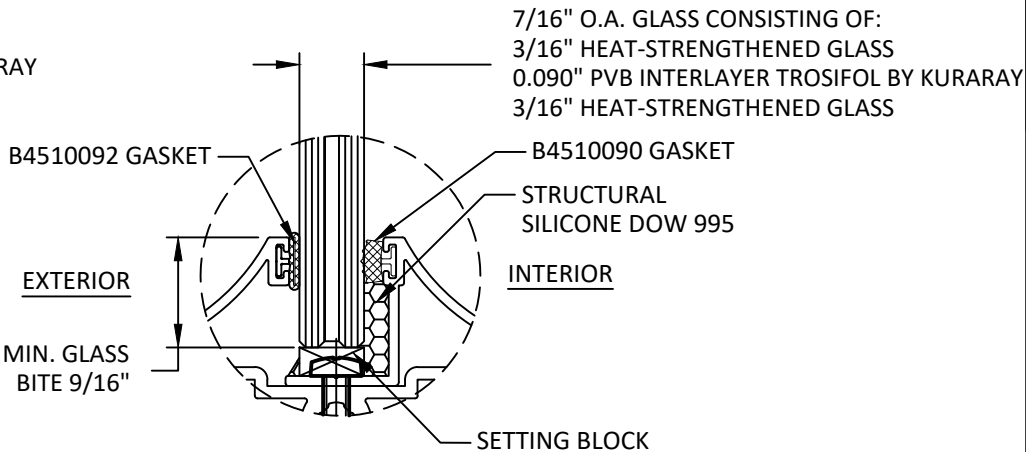
MAX. PANEL SIZE		CONFIG.	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT			
39 15/16"	109 3/16"	SEE STANDARD STILE SHEET 2	+90 / -90 PSF	LARGE MISSILE & SMALL MISSILE IMPACT
35 15/16"	97 3/16"	SEE NARROW STILE SHEET 2	+100 / -100 PSF	

SEE SHEET 3 FOR WATER RATINGS

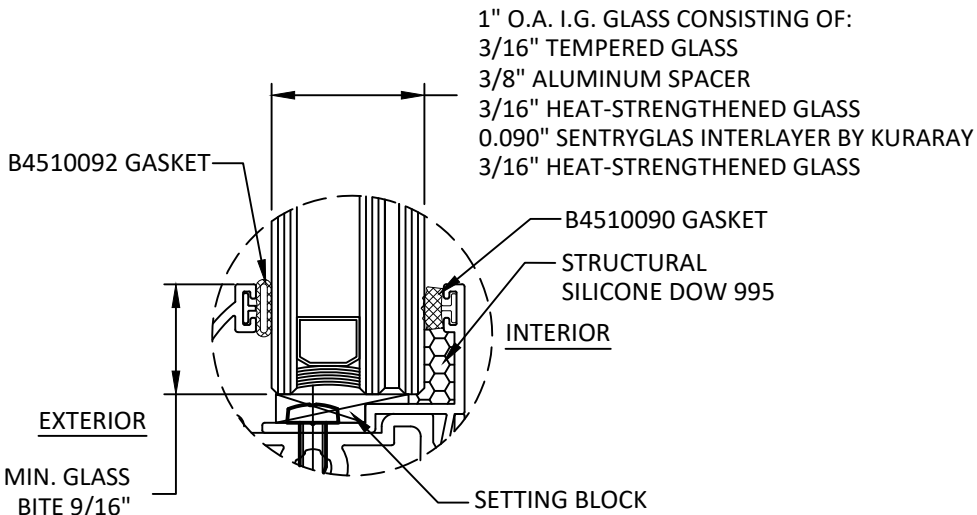
TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES & GLAZING DETAILS
2	ELEVATION & ANCHOR LAYOUTS
3	DESIGN PRESSURE TABLES
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS - STANDARD
6	HORIZONTAL SECTIONS - NARROW
7	QUALIFIED CONFIGURATIONS
8	INSTALLATION NOTES & ANCHOR DETAILS



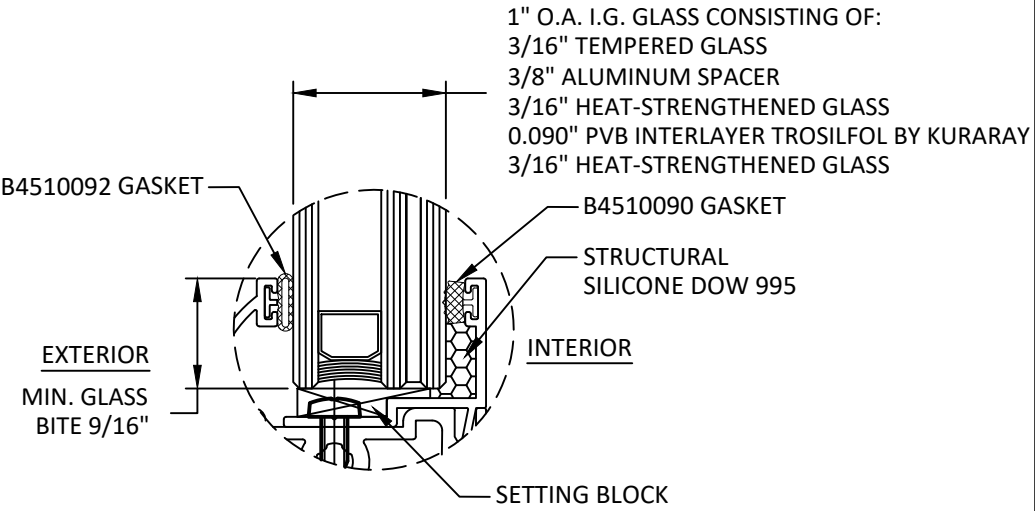
GLAZING DETAIL 1



GLAZING DETAIL 2



GLAZING DETAIL 3



GLAZING DETAIL 4

GLAZING NOTES:

- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING 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.
- 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 IN DP TABLE ON SHEET 1, AND ELEVATIONS ON SHEET 2.

LINEA ROSSA®
WINDOWS & DOORS

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

TITLE: LR-480 ALUMINUM BI-FOLD DOOR
(HVHZ)(IMPACT)

GENERAL NOTES & GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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HERMES F. NORERO P.E.
FLORIDA P. E. NO. 73778
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

FL40702

DATE: 06.29.2023

DWG. BY: SH
CHK. BY: HFN

SCALE: NTS

DWG. #: LRA018

SHEET: 1 OF 8

TITLE: LR-480 ALUMINUM BI-FOLD DOOR
(HVHZ)/(IMPACT)

ELEVATIONS & ANCHOR LAYOUTS

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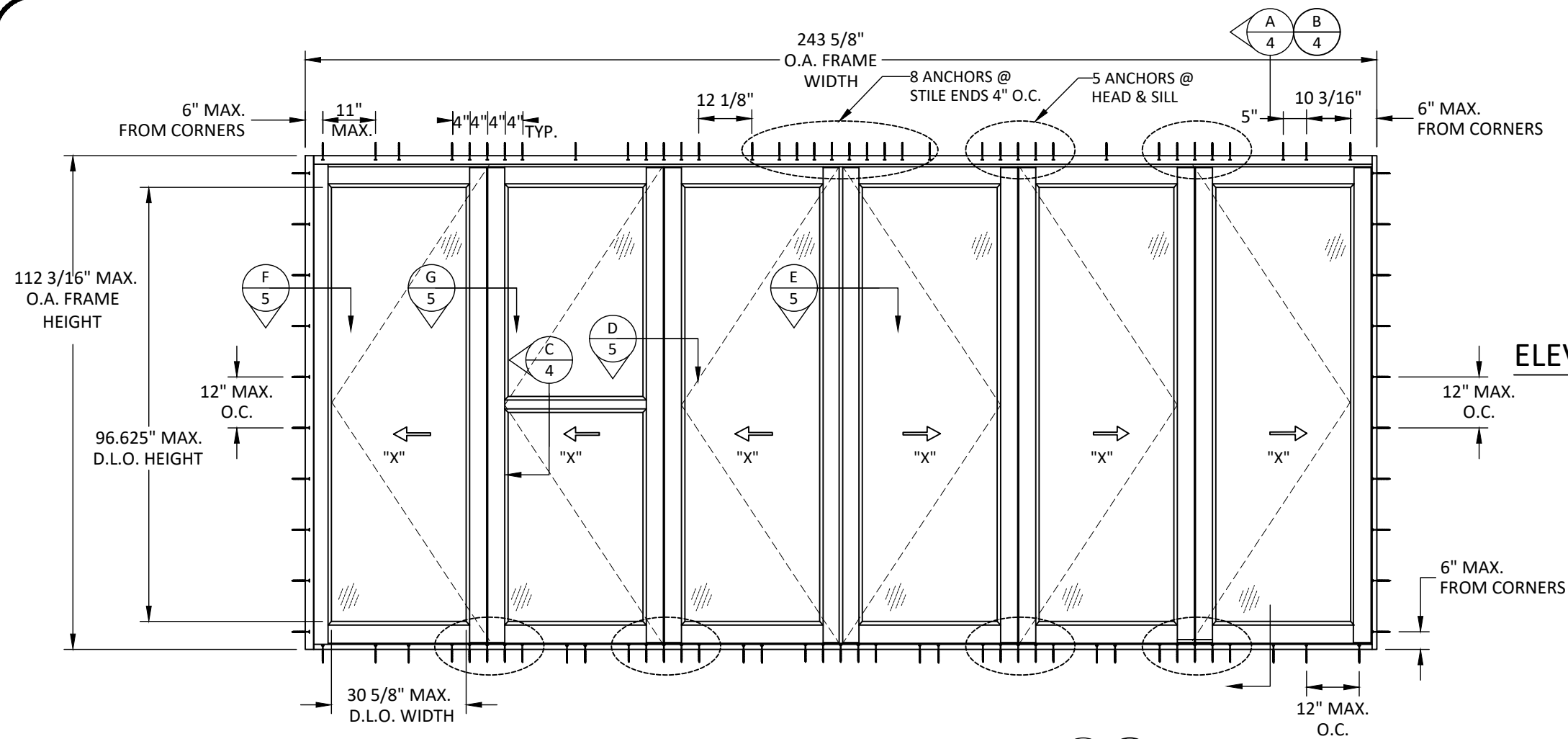
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SHEET: 2 OF 8

2

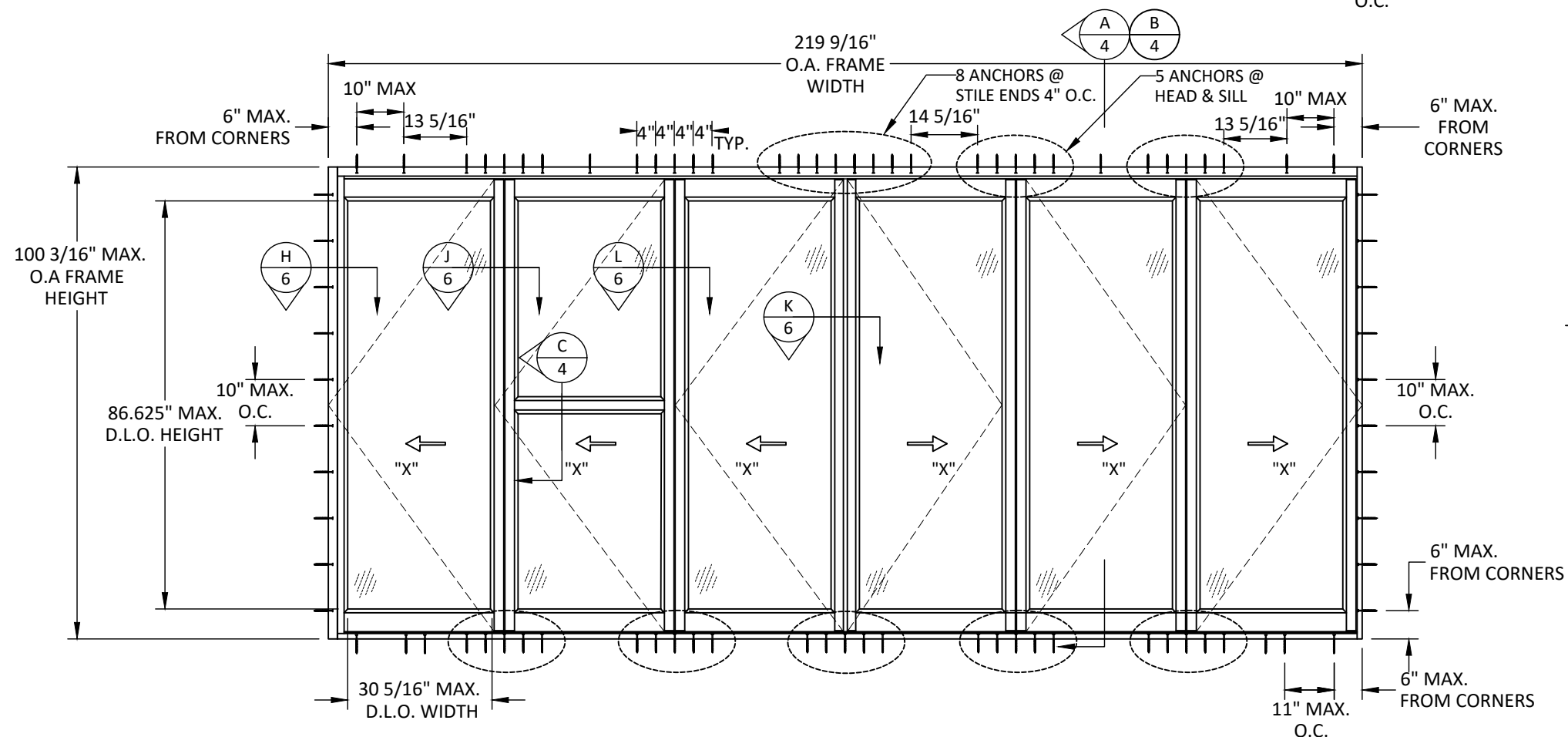


ELEVATION & ANCHOR LAYOUT

3L/3R - STANDARD STILE - BI-FOLD DOOR

NOTE:

- TESTED SIZES SHOWN. SEE SHEET 3 FOR DESIGN PRESSURE TABLES & SEE SHEET 6 FOR OTHER QUALIFIED CONFIGURATIONS.
- STANDARD STILE MAXIMUM ALLOWED FRAME WIDTH = $1.5 \times 243.625" = 365.44"$ SUCH THAT THE MAXIMUM PANEL SIZE, AS SHOWN HEREIN, IS NOT EXCEEDED.
- NARROW STILE MAXIMUM ALLOWED FRAME WIDTH = $1.5 \times 219.5625" = 329.34"$ SUCH THAT THE MAXIMUM PANEL SIZE, AS SHOWN HEREIN, IS NOT EXCEEDED.



ELEVATION & ANCHOR LAYOUT

3L/3R - NARROW STILE - BI-FOLD DOOR

DESIGN PRESSURE TABLE

STANDARD STILE

DESIGN PRESSURE TABLE (+/- PSF)		
DOOR DIMENSIONS		STANDARD STILE
PANEL WIDTH (IN.)	PANEL HEIGHT (IN.)	
24.9375	67.1875	90.0
30.9375		90.0
36.9375		90.0
42.9375		90.0
48.9375		90.0
54.9375		90.0
60.9375	73.1875	90.0
24.9375		90.0
30.9375		90.0
36.9375		90.0
42.9375		90.0
48.9375		90.0
54.9375	79.1875	90.0
24.9375		90.0
30.9375		90.0
36.9375		90.0
42.9375		90.0
48.9375		90.0
54.9375	85.1875	90.0
24.9375		90.0
30.9375		90.0
36.9375		90.0
42.9375		90.0
48.9375		90.0
24.9375	91.1875	90.0
30.9375		90.0
36.9375		90.0
42.9375		90.0
24.9375	97.1875	90.0
30.9375		90.0
36.9375		90.0
42.9375		90.0
24.9375	103.1875	90.0
30.9375		90.0
36.9375		90.0
39.9375		90.0
24.9375	109.1875	90.0
30.9375		90.0
36.9375		90.0
39.9375		90.0

DESIGN PRESSURE TABLE

NARROW STILE

DESIGN PRESSURE TABLE (+/- PSF)		
DOOR DIMENSIONS		NARROW STILE
PANEL WIDTH (IN.)	PANEL HEIGHT (IN.)	
23.9375	61.1875	100.0
29.9375		100.0
35.9375		100.0
41.9375		100.0
47.9375		100.0
53.9375		100.0
23.9375	67.1875	100.0
29.9375		100.0
35.9375		100.0
41.9375		100.0
47.9375		100.0
23.9375	73.1875	100.0
29.9375		100.0
35.9375		100.0
41.9375		100.0
23.9375	79.1875	100.0
29.9375		100.0
35.9375		100.0
41.9375		100.0
23.9375	85.1875	100.0
29.9375		100.0
35.9375		100.0
23.9375	91.1875	100.0
29.9375		100.0
35.9375		100.0
23.9375	97.1875	100.0
29.9375		100.0
35.9375		100.0



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DESIGN PRESSURE TABLES

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REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE
GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS
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DWG. BY: SH	CHK. BY: HFN
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SCALE: NTS

DWG. #: LRA018

SHEET: OF 8

3

TITLE: LR-480 ALUMINUM BI-FOLD DOOR
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VERTICAL SECTIONS

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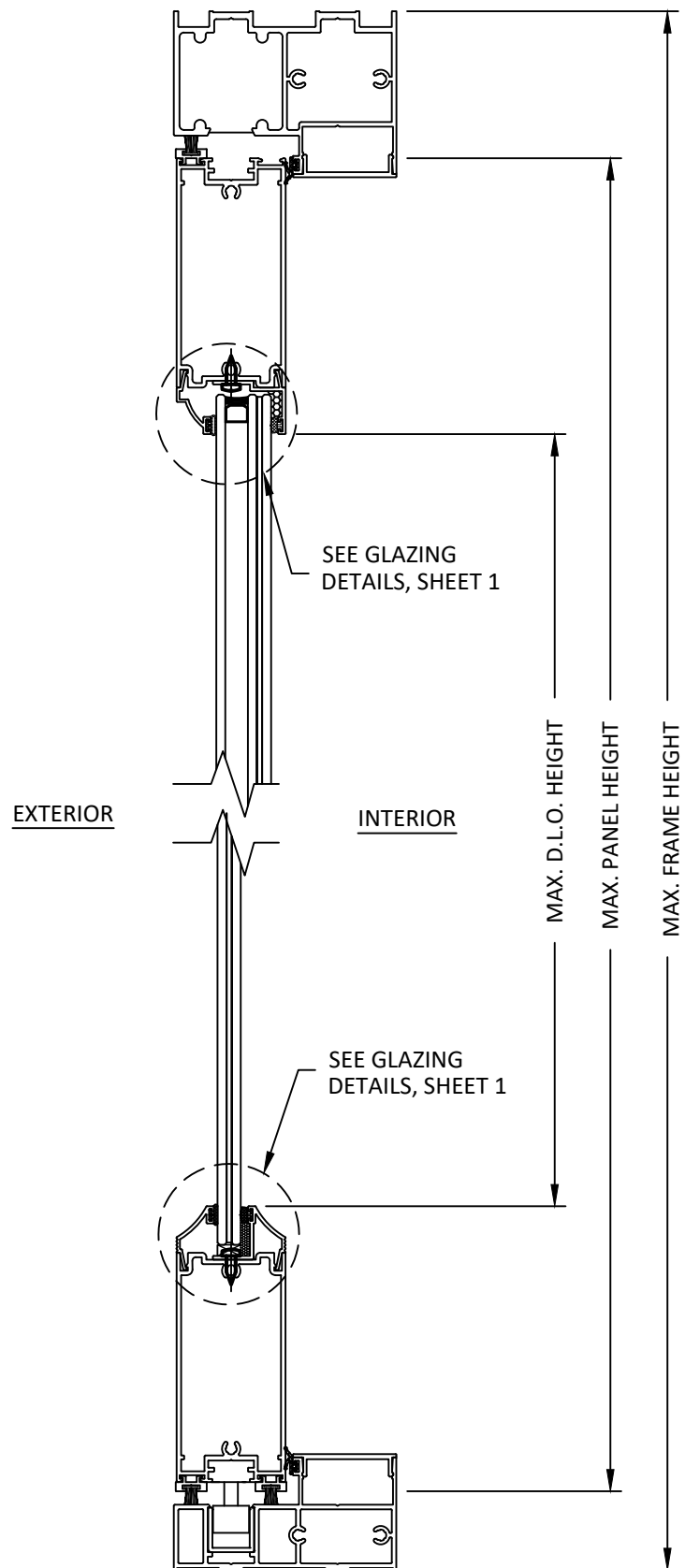
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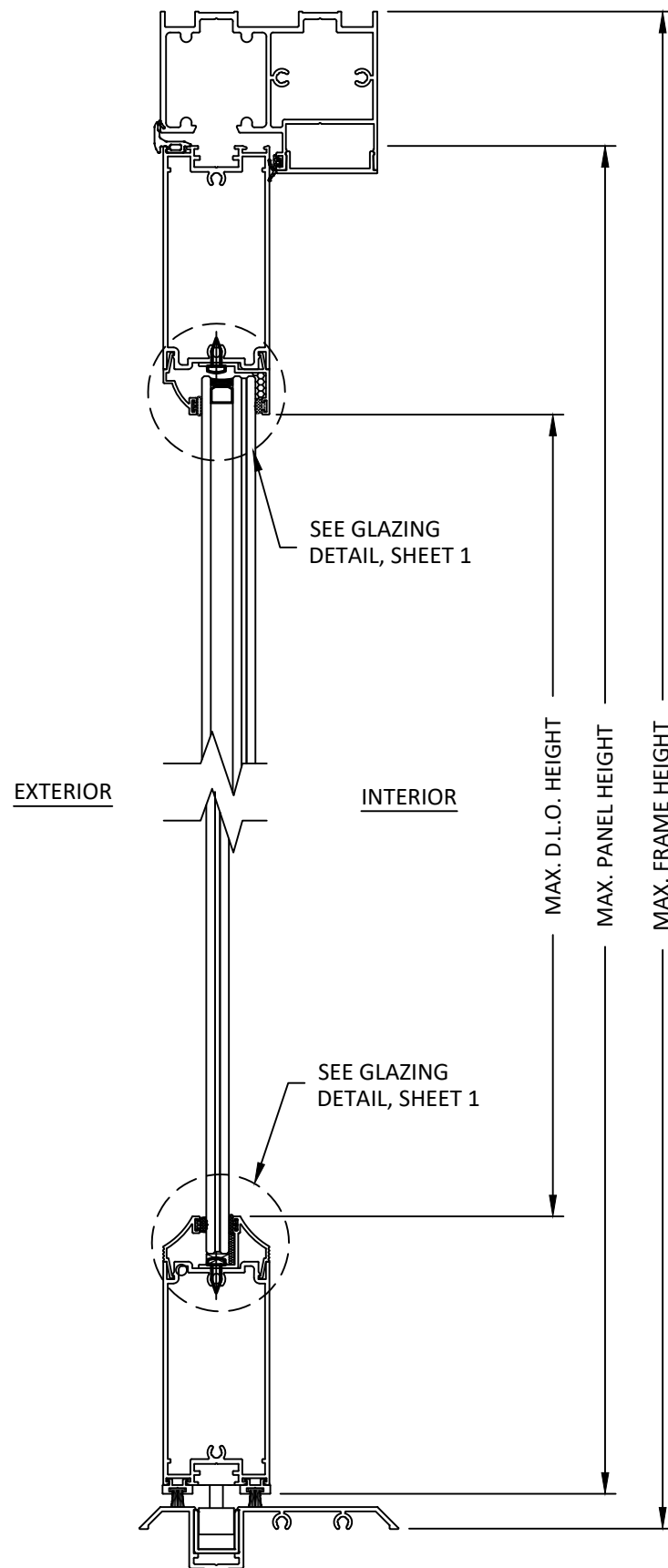
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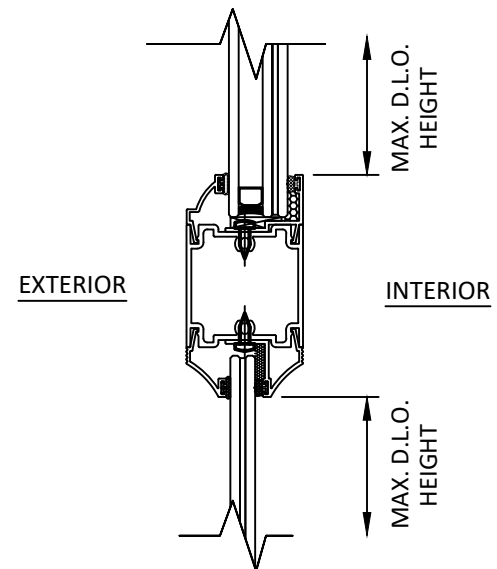
4



A
4
VERTICAL SECTION
BI-FOLD DOOR - STANDARD SILL
APPROVED FOR WATER INFILTRATION (WTP=15 PSF)



B
4
VERTICAL SECTION
BI-FOLD DOOR - FLUSH SILL
NOT APPROVED FOR WATER INFILTRATION*



C
4
VERTICAL SECTION
BI-FOLD DOOR - MID RAIL

*FLUSH SILL SHALL BE USED AT NON-HABITABLE LOCATIONS OR
WHERE PROTECTED BY AN OVERHANG RATIO EQUAL OR
GREATER THAN 1.0, WHERE:
OVERHANG RATIO = OVERHANG LENGTH / OVERHANG HEIGHT.

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HORIZONTAL SECTIONS - STANDARD STILE

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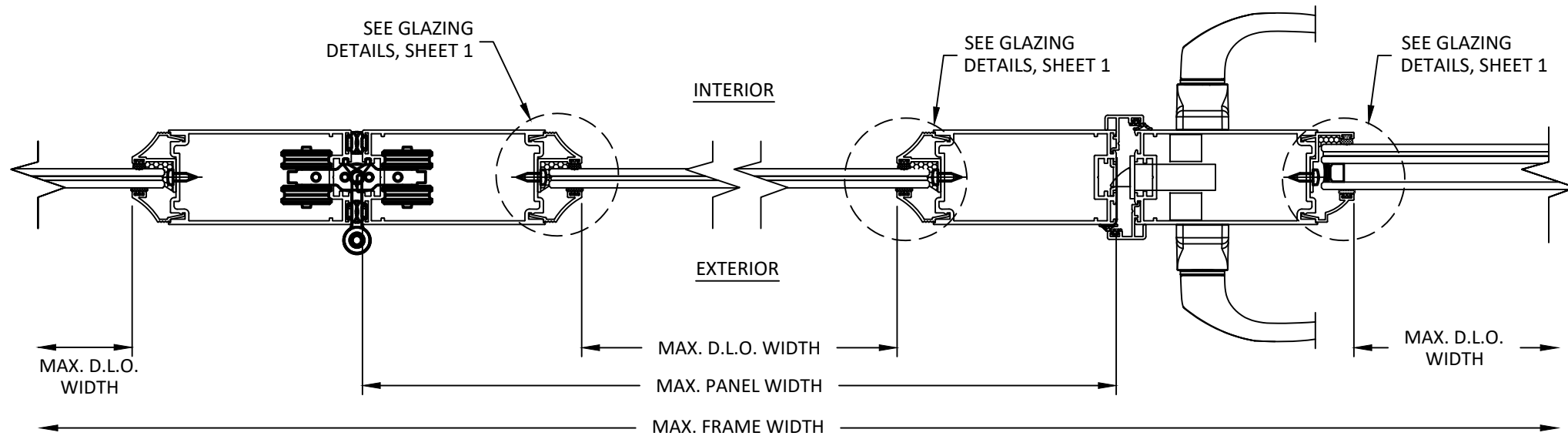
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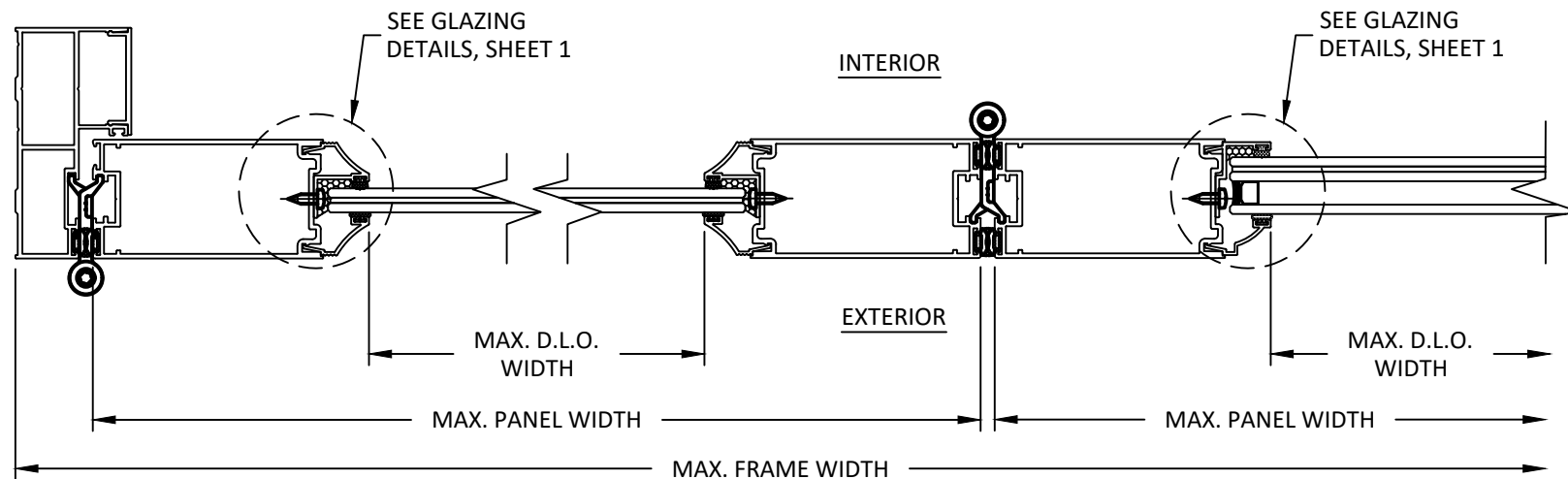
SHEET: OF 8

5



D
5 HORIZONTAL SECTION
STANDARD STILE - BI-FOLD DOOR
ROLLER HINGE

E
5 HORIZONTAL SECTION
STANDARD STILE - BI-FOLD DOOR
ASTRAGAL



F
5 HORIZONTAL SECTION
STANDARD STILE - BI-FOLD DOOR
HINGE JAMB

G
5 HORIZONTAL SECTION
STANDARD STILE - BI-FOLD DOOR
HINGE

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HORIZONTAL SECTIONS - NARROW STILE

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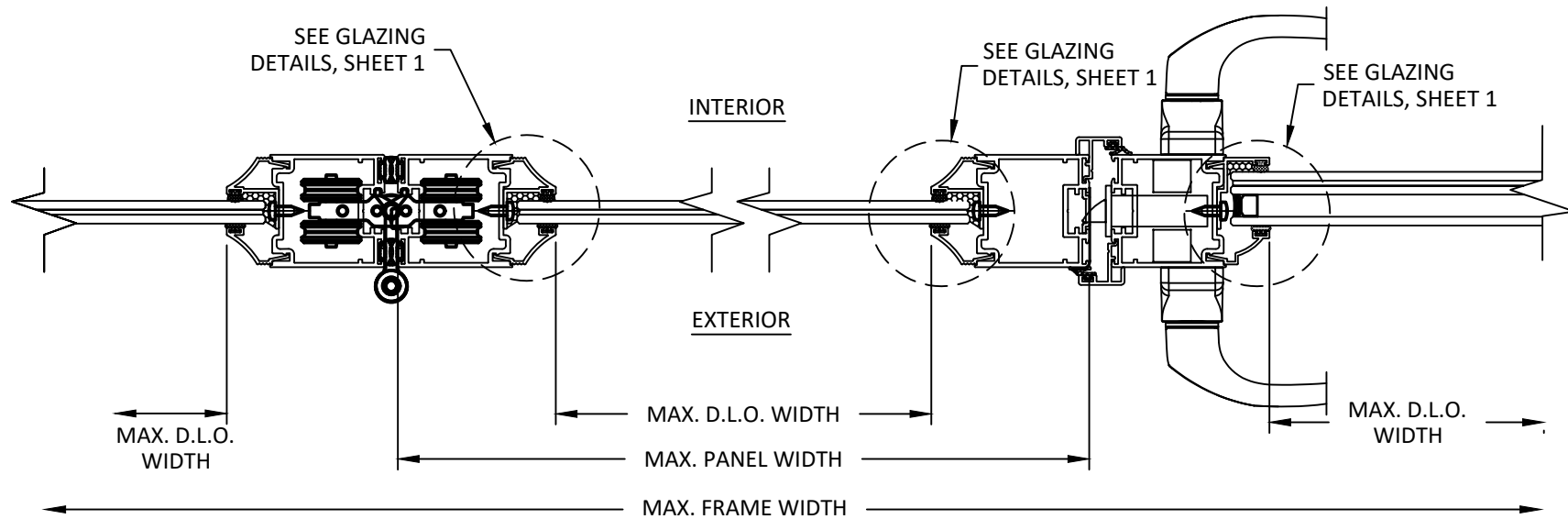
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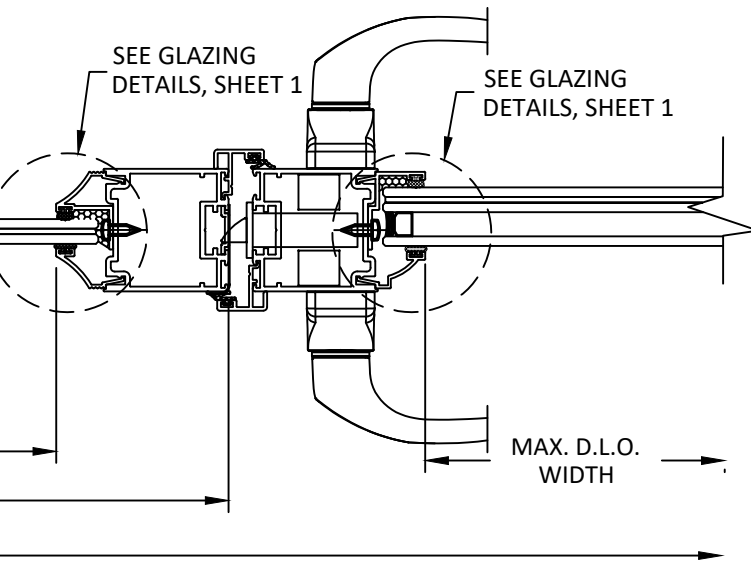
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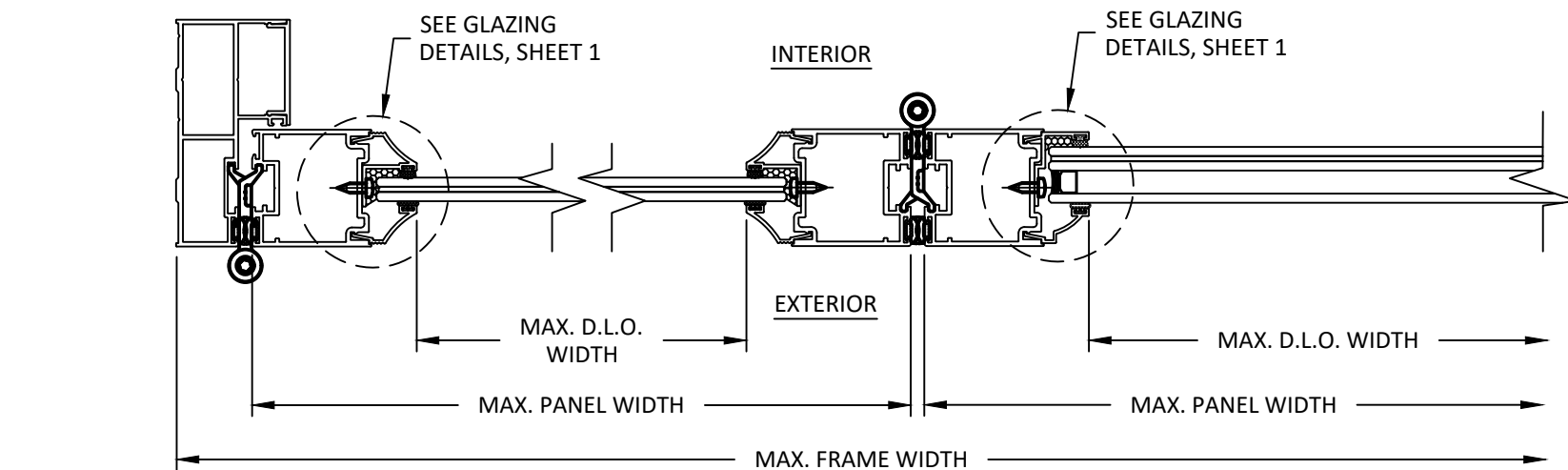
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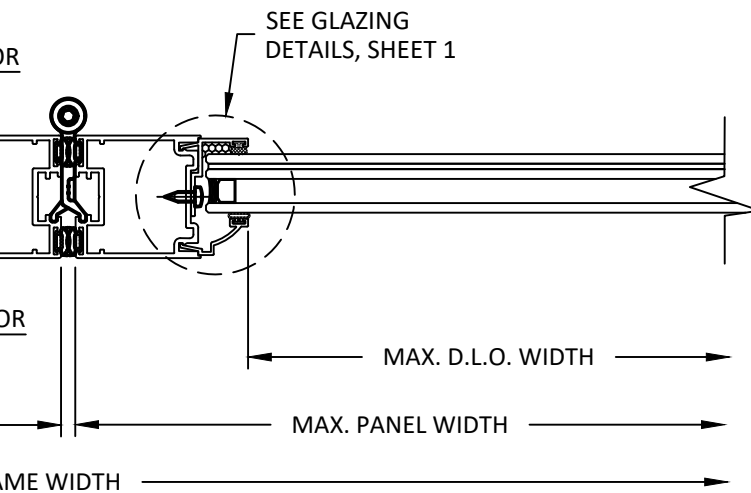
L
6 HORIZONTAL SECTION
NARROW STILE - BI-FOLD DOOR
ROLLER HINGE



K
6 HORIZONTAL SECTION
NARROW STILE - BI-FOLD DOOR
ASTRAGAL

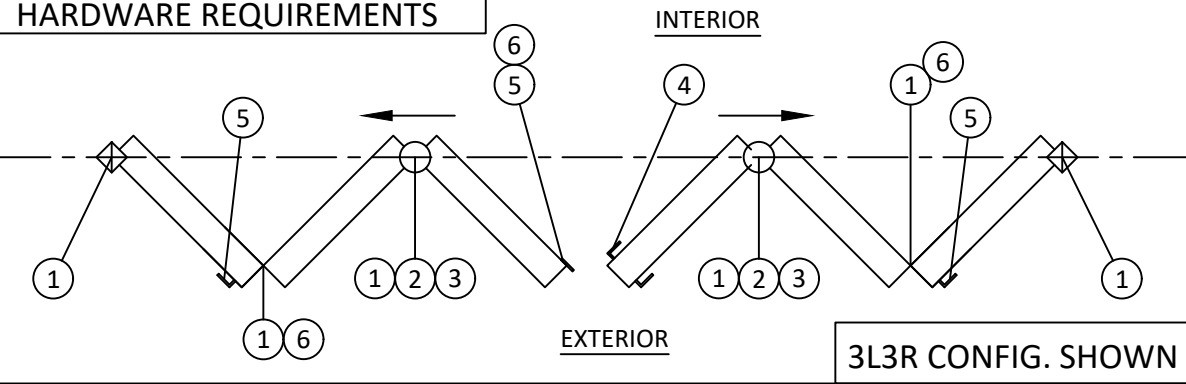


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6 HORIZONTAL SECTION
NARROW STILE - BI-FOLD DOOR
HINGE JAMB

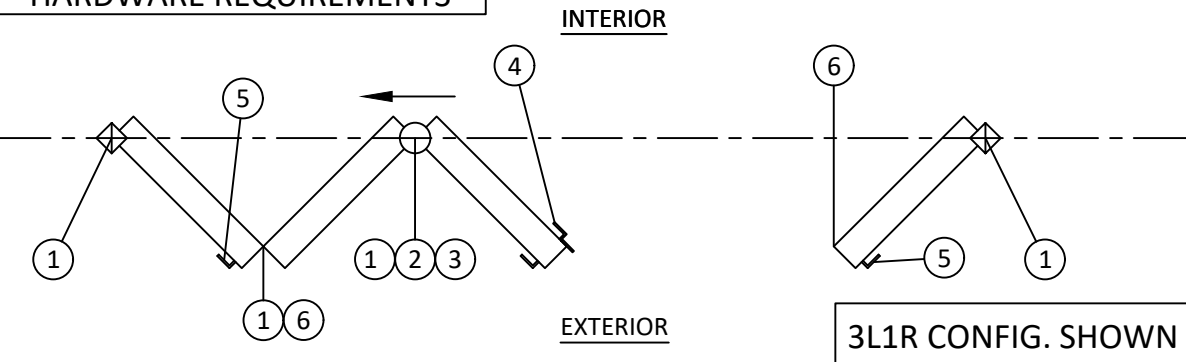


J
6 HORIZONTAL SECTION
NARROW STILE - BI-FOLD DOOR
HINGE

ODD/ODD PANEL COUNT TYP.
HARDWARE REQUIREMENTS

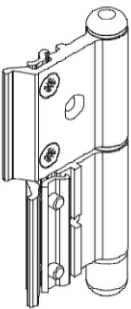


ODD/ODD PANEL COUNT TYP.
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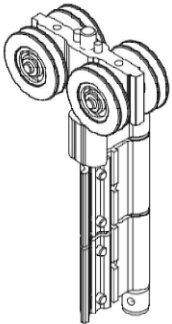


PANEL CT.	QUALIFIED CONFIGURATIONS							
1	1L	1R	-	-	-	-	-	-
2	1L1R	-	-	-	-	-	-	-
3	-	-	3L	3R	-	-	-	-
4	1L3R	3L1R	-	-	-	-	-	-
5	-	-	-	-	5L	5R	-	-
6	1L5R	5R1L	-	-	3L3R	-	-	-
7	-	-	-	-	-	-	7L	7R
8	1L7R	7L1R	-	-	3L5R	5L3R	-	-
9	-	-	-	-	-	-	-	-
10	-	-	3L7R	7L3R	-	-	5L5R	-
11	-	-	-	-	-	-	-	-
12	4L8R	8L4R	5L7R	7L5R	6L6R	-	-	-
13	-	-	-	-	-	-	-	-
14	-	-	7L7R	-	-	-	-	-
15	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-

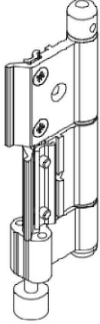
- NOTES:
- MAXIMUM PANEL SIZE: 39-15/16" X 112-15/16".
 - TERMINAL PANEL HARDWARE:
 - 'ODD' TO 'ODD' PANEL COUNT (I.E. 3L3R CONFIG.)- REQUIRES LOCK (ITEM 4) ON ACTIVE SWING PANEL.
 - 'ODD' PANEL COUNT INTO JAMB (I.E. 5L CONFIG.) - REQUIRES LOCK (ITEM 4) ON ACTIVE SWING PANEL.
 - HINGED JOINT PANELS - ALL HINGED PANELS REQUIRE FIVE CENTER HINGES (ITEM 1 + 5) AND 2-PT LOCK (ITEM 6)
 - CARRIER JOINT PANELS - ALL CARRIER PANELS REQUIRE AN INTERMEDIATE CARRIER SET (ITEM 2+3), AND THREE HINGES (ITEM 1)



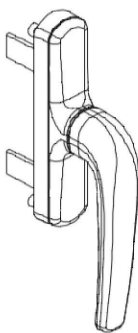
1 HINGE



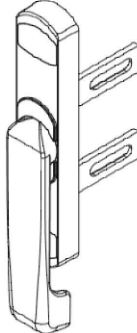
2 CARRIER HINGE



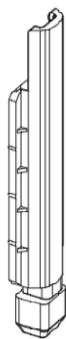
3 ROLLER HINGE



4 LOCK HINGE



5 FLUSH BOLT LEVER



6 FLUSH BOLT

TITLE: LR-480 ALUMINUM BI-FOLD DOOR
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QUALIFIED CONFIGURATIONS

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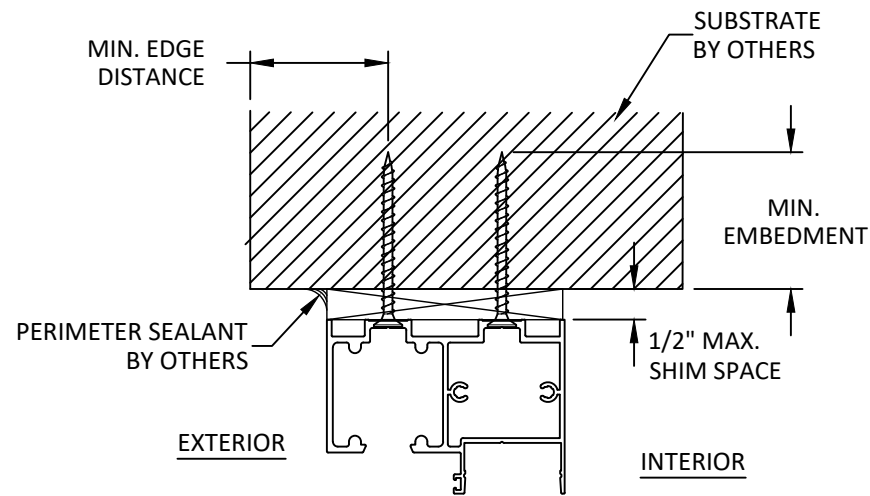
DWG. BY:
SH

CHK. BY:
HFN

SCALE: NTS

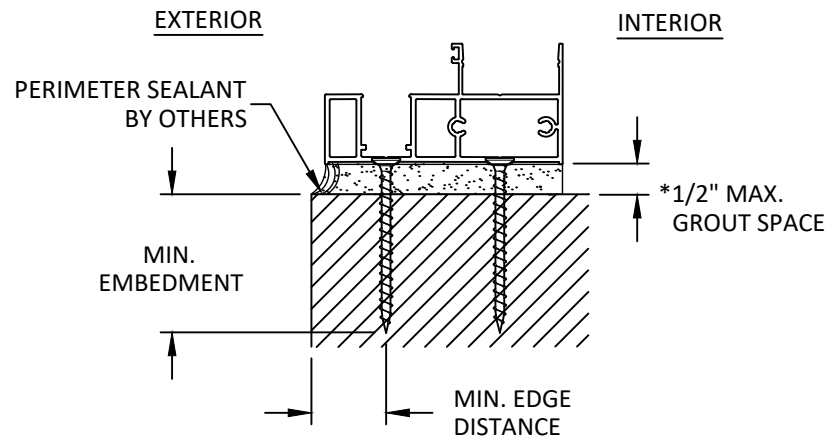
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SHEET: OF 8



A
8

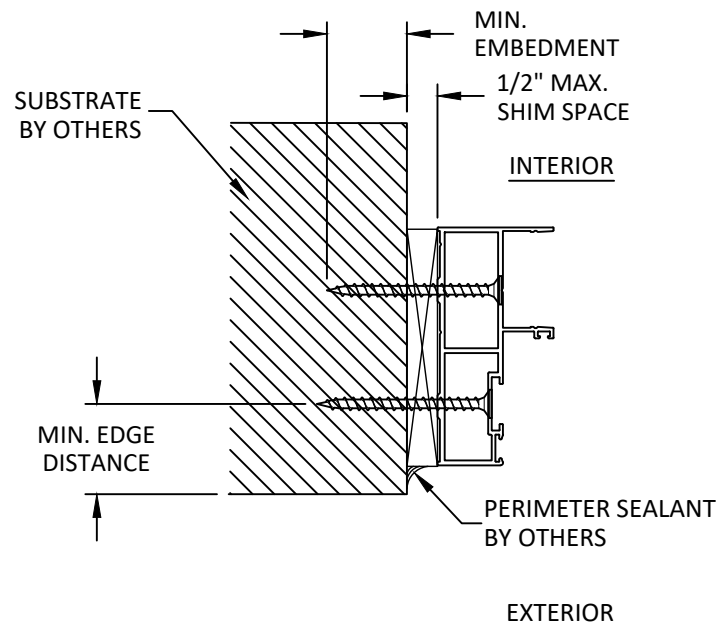
ANCHOR DETAIL
THROUGH FRAME (HEAD)



B
8

ANCHOR DETAIL
THROUGH FRAME (SILL)

* POUR & HARDENED HIGH STRENGTH GROUT
NON-SHRINK, NON-METALIC f'c = 5000 PSI MIN.
NOT BY MANUFACTURE WINDOW COMPANY.
MUST TRANSFER SHEAR LOADS TO STRUCTURE.



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ANCHOR DETAIL
THROUGH FRAME (JAMB)

INSTALLATION NOTES:

1. TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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.
4. 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.
5. FOR MASONRY OR CONCRETE OPENINGS, 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.
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.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. SG = 0.55	5/16" DEWALT ULTRACON	1.50"	1.25"
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM 6063-T5 0.125 MIN	5/16" DEWALT DRILL-FLEX	3 THREADS MIN. PENETRATION BEYOND METAL	0.75"
	CONCRETE: f'c=3000PSI	5/16" DEWALT ULTRACON	1.75"	2.50"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI		1.25"	2.50"

TITLE: LR-480 ALUMINUM BI-FOLD DOOR
(HVHZ)/(IMPACT)

INSTALLATION NOTES &
ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.

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DANIA BEACH, FL 33004
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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.

HERMES F. NORERO P.E.
FLORIDA P. E. NO. 73778
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

FL40702

DATE: 06.29.2023

DWG. BY:
SH

CHK. BY:
HFN

SCALE: NTS

DWG. #: LRA018

SHEET: OF 8