

LINEA ROSSA DESIGN LLC

LR-230 ALUMINUM SLIDING GLASS DOOR

(HVHZ)(IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- 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.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4" INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- 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.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING:
 - FASTENERS USED WITHIN 3,000 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).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 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).
- 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.
- 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.

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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAILS.

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10	COMPONENTS
11	BILL OF MATERIALS

MAX. PANEL SIZE		CONFIG.	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT			
SEE SHEET 3	SEE SHEET 3	SEE SHEET 2	SEE SHEET 3	LARGE & SMALL MISSILE IMPACT

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.10.13 13:20:35 -04'00'

DESIGNED by
LINEA ROSSA®

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

TITLE:
LR-230 ALUMINUM
SLIDING GLASS DOOR
(HVHZ)(IMPACT)

GENERAL NOTES & INSTALLATION NOTES

PREPARED BY:

BUILDING DROPS, INC.
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BUILDING DROPS

REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26
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FBPE CERT. OF AUTHORIZATION No. 29578

FL38755

DATE: 10.06.2023

DWG. BY: SH	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: **LRA015**

SHEET:	REV. A
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OF 11

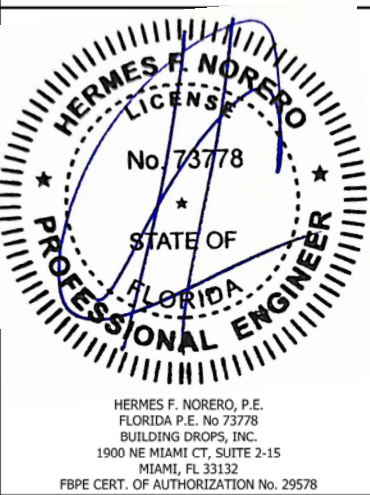
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ELEVATION AND ANCHOR LAYOUT

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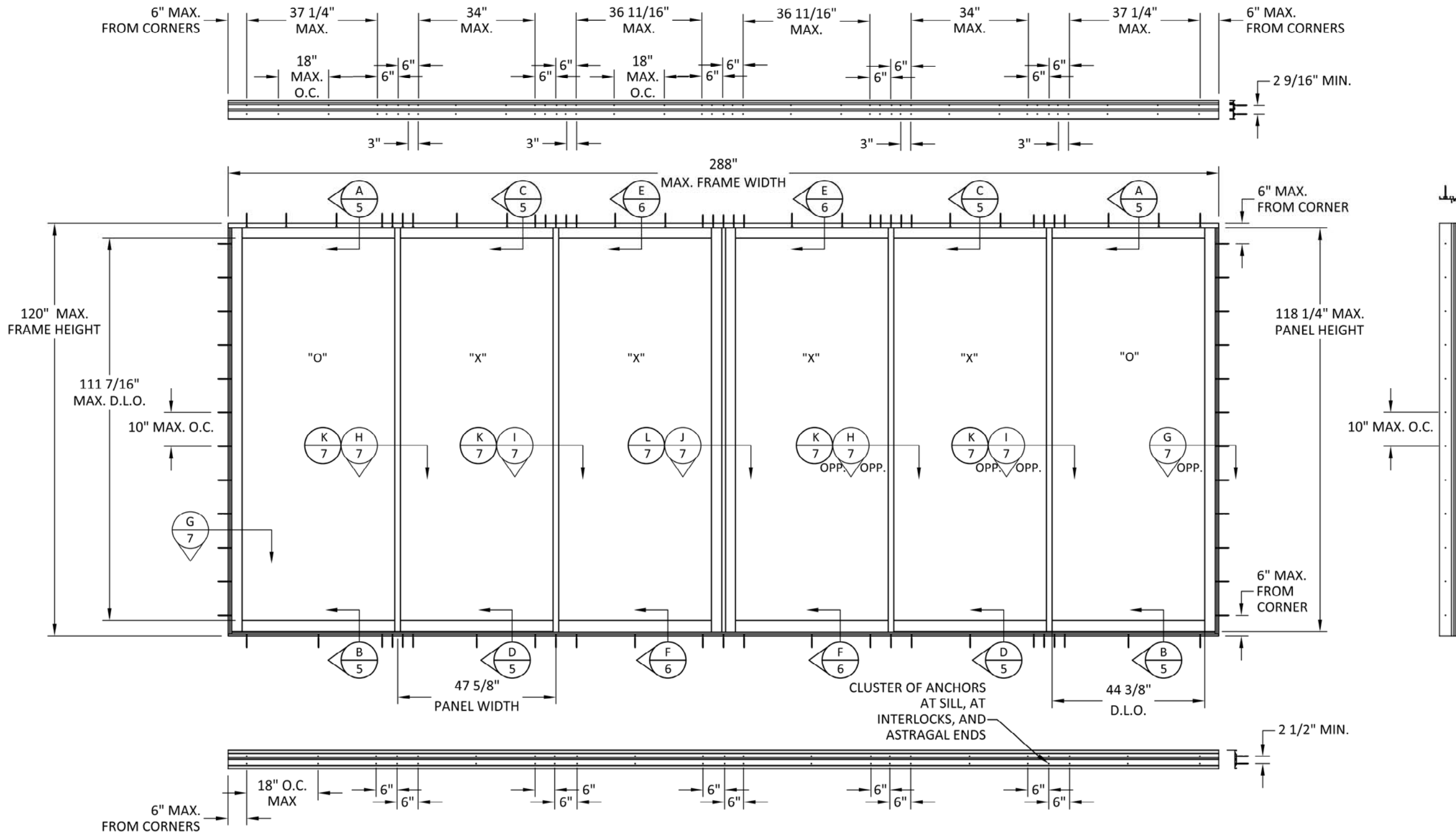
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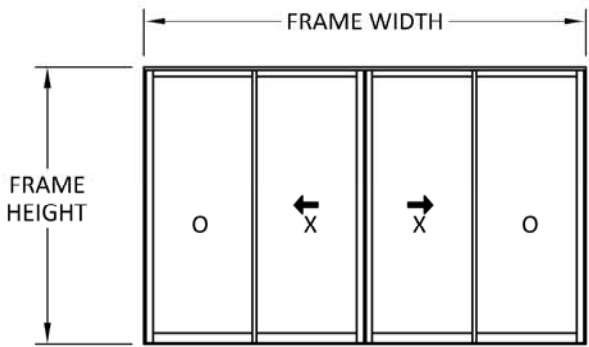
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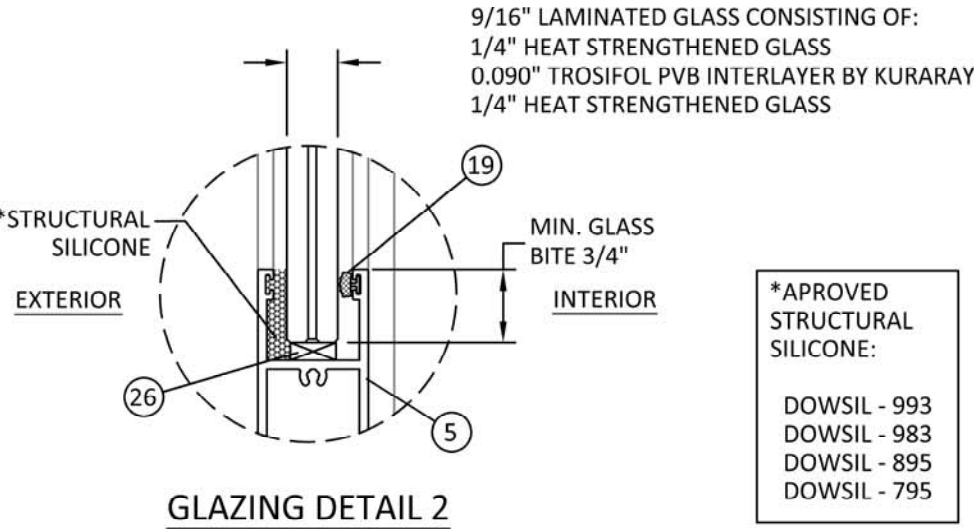
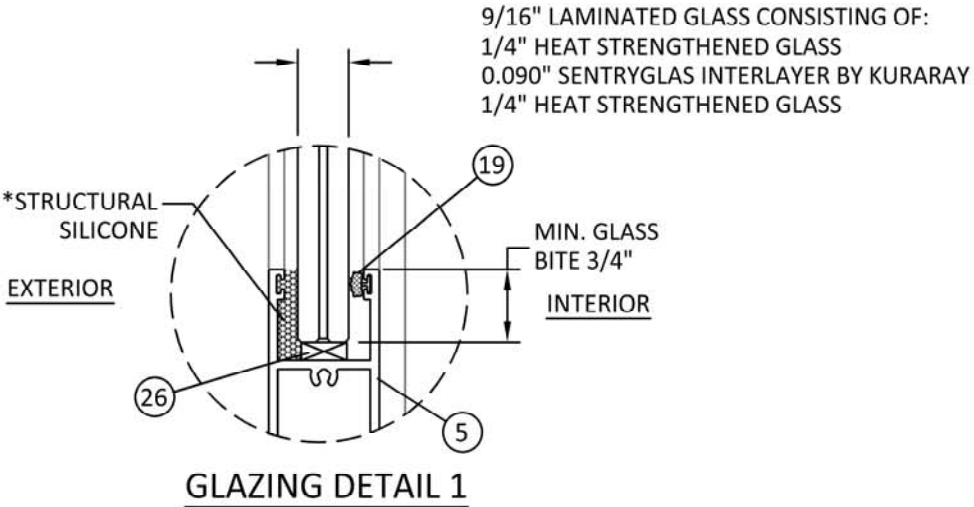
DESIGN PRESSURE TABLE (+/- PSF)		
WINDOW DIMENSIONS		GLASS TYPES G1/G2
PANEL WIDTH (IN.)	PANEL HEIGHT (IN.)	
23.625	70.25	90.0
29.625		90.0
35.625		90.0
41.625		90.0
47.625		90.0
53.625		79.9
59.625		71.9
65.625		65.3
71.625		61.0
77.625		61.0
23.625	76.25	90.0
29.625		90.0
35.625		90.0
41.625		90.0
47.625		90.0
53.625		79.9
59.625		71.9
65.625		65.3
71.625		59.8
23.625		90.0
29.625	82.25	90.0
35.625		90.0
41.625		90.0
47.625		90.0
53.625		79.9
59.625		71.9
65.625		65.3
23.625		90.0
29.625		90.0
35.625		90.0
41.625	88.25	90.0
47.625		90.0
53.625		79.9
59.625		71.9

DESIGN PRESSURE TABLE (+/- PSF)		
WINDOW DIMENSIONS		GLASS TYPES G1/G2
PANEL WIDTH (IN.)	PANEL HEIGHT (IN.)	
23.625	94.25	90.0
29.625		90.0
35.625		90.0
41.625		90.0
47.625		90.0
53.625		79.9
59.625		71.9
23.625	100.25	90.0
29.625		90.0
35.625		90.0
41.625		90.0
47.625	106.25	90.0
53.625		79.9
59.625		71.9
65.625		65.3
71.625	112.25	59.8
23.625		90.0
29.625		90.0
35.625		90.0
41.625	118.25	90.0
47.625		90.0
53.625		79.9
59.625		71.9



AVERG. PANEL WIDTH = FRAME WIDTH / NO. OF PANELS

PANEL HEIGHT = FRAME HEIGHT - 1-3/4"



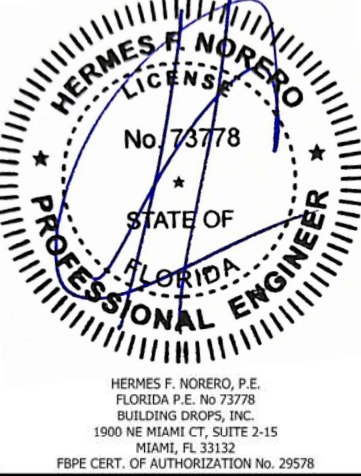
- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - 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.

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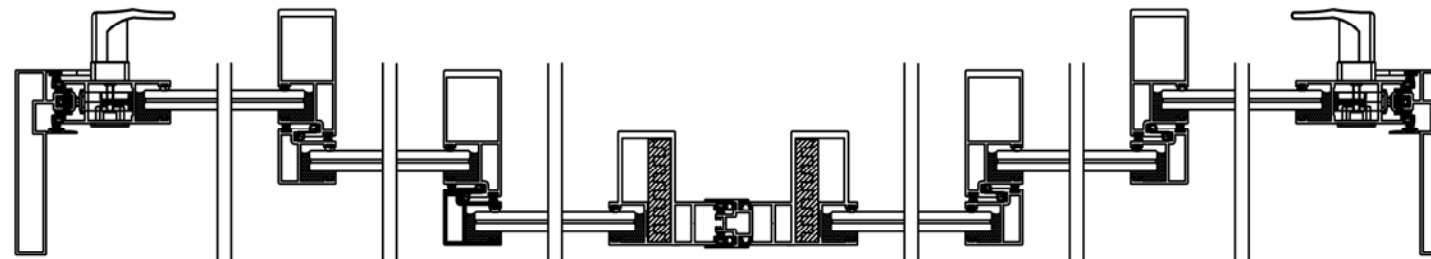
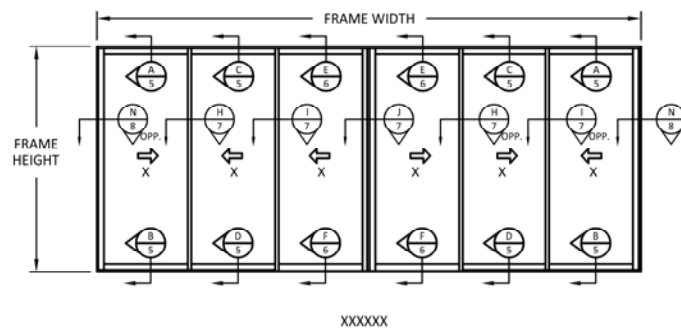
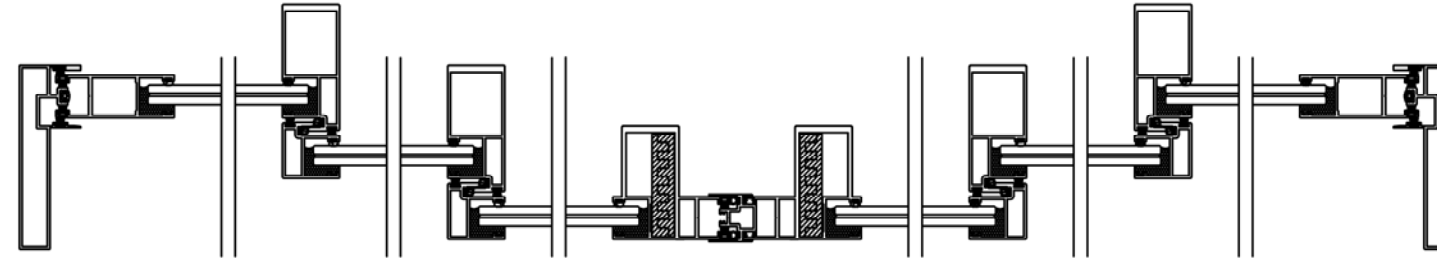
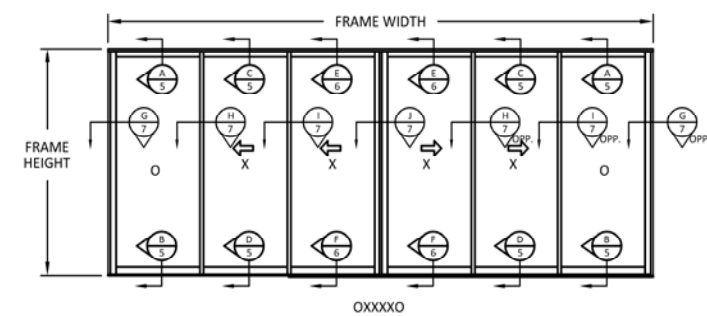
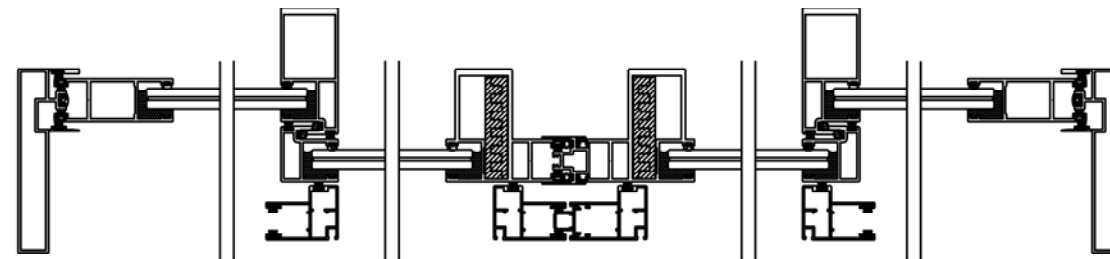
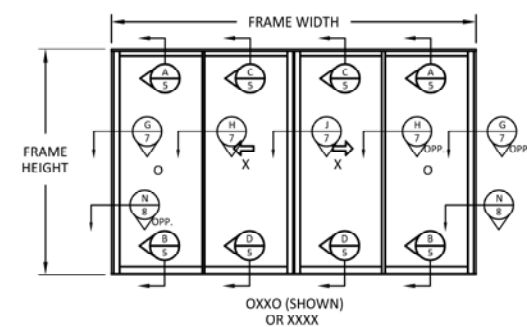
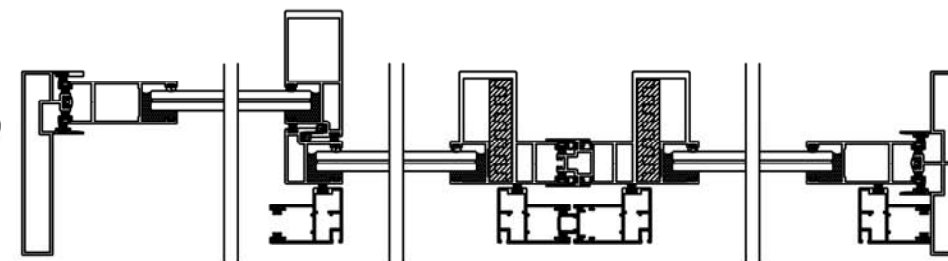
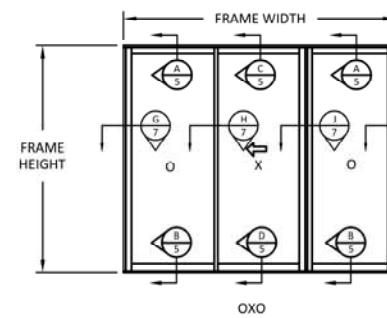
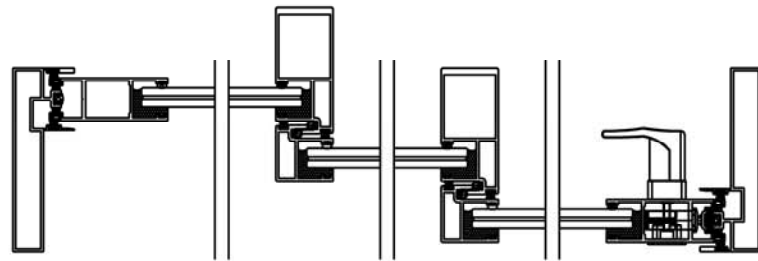
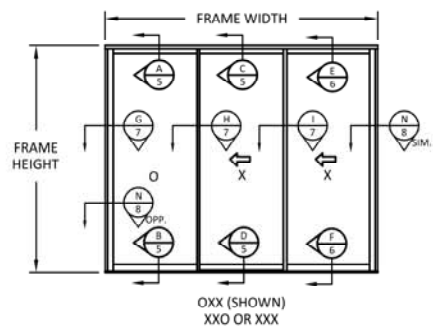
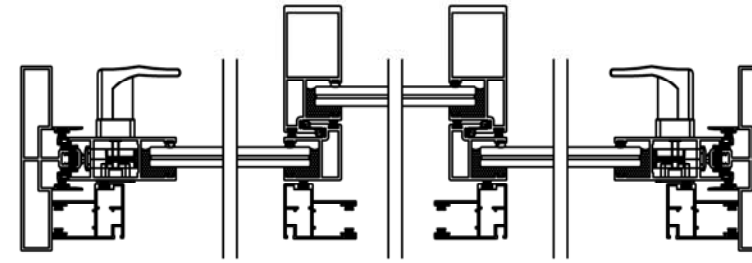
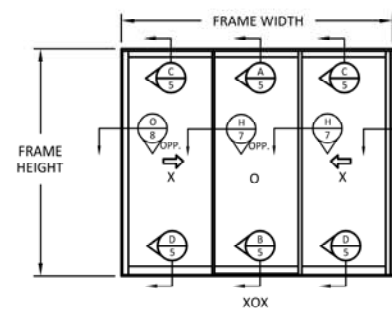
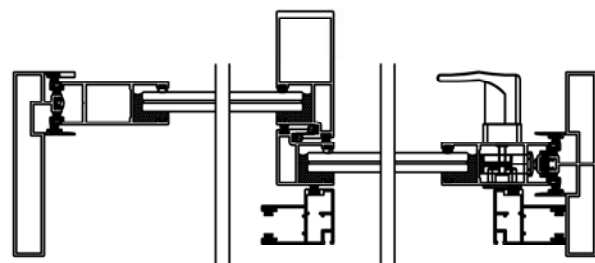
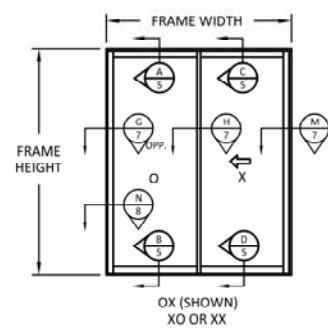
TITLE: **LR-230 ALUMINUM
SLIDING GLASS DOOR
(HVHZ)(IMPACT)**
GLAZING DETAILS & DESIGN
PRESSURE TABLES
PREPARED BY: **BUILDING DROPS, INC.**
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REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26

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DATE: 10.06.2023
DWG. BY: SH
CHK. BY: HFN
SCALE: NTS
DWG. #: LRA015
SHEET: 3 OF 11
REV. A



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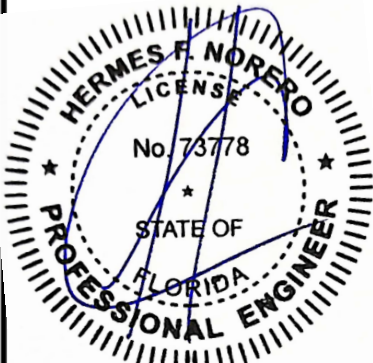
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QUALIFIED CONFIGURATIONS

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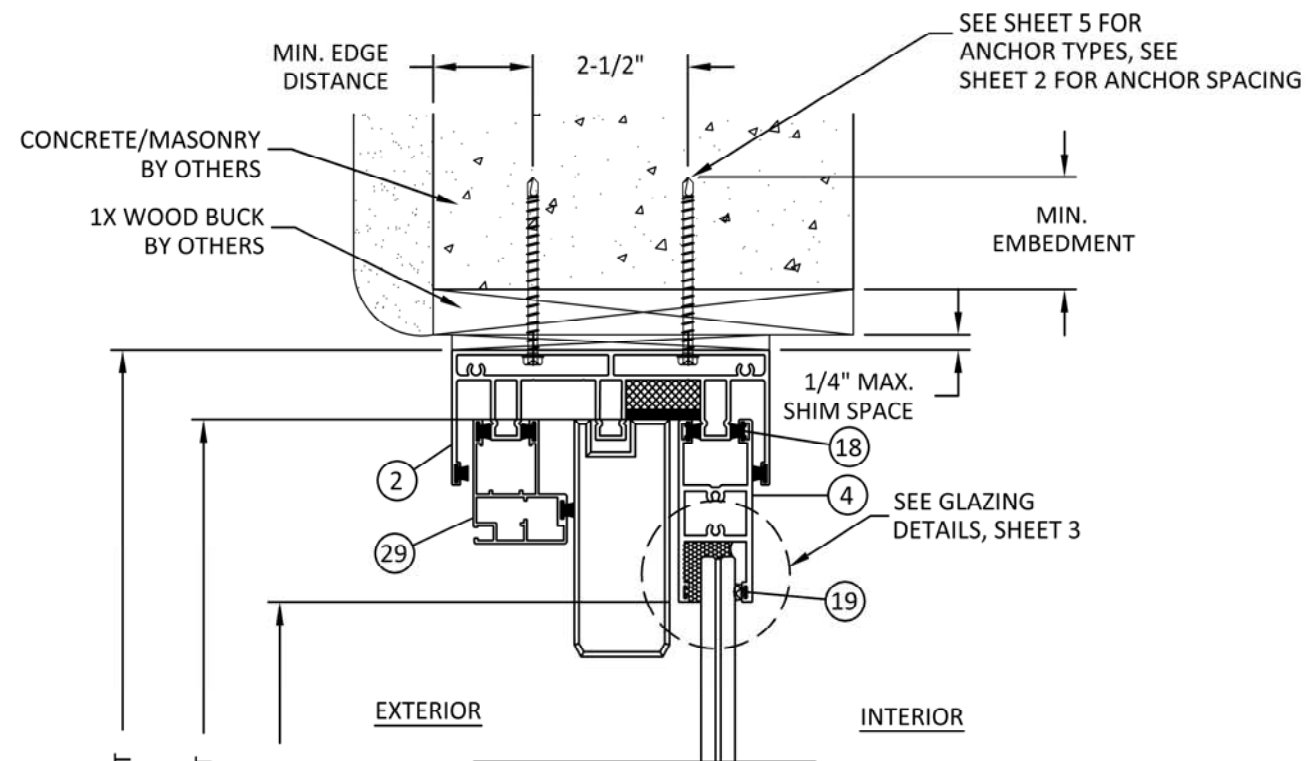
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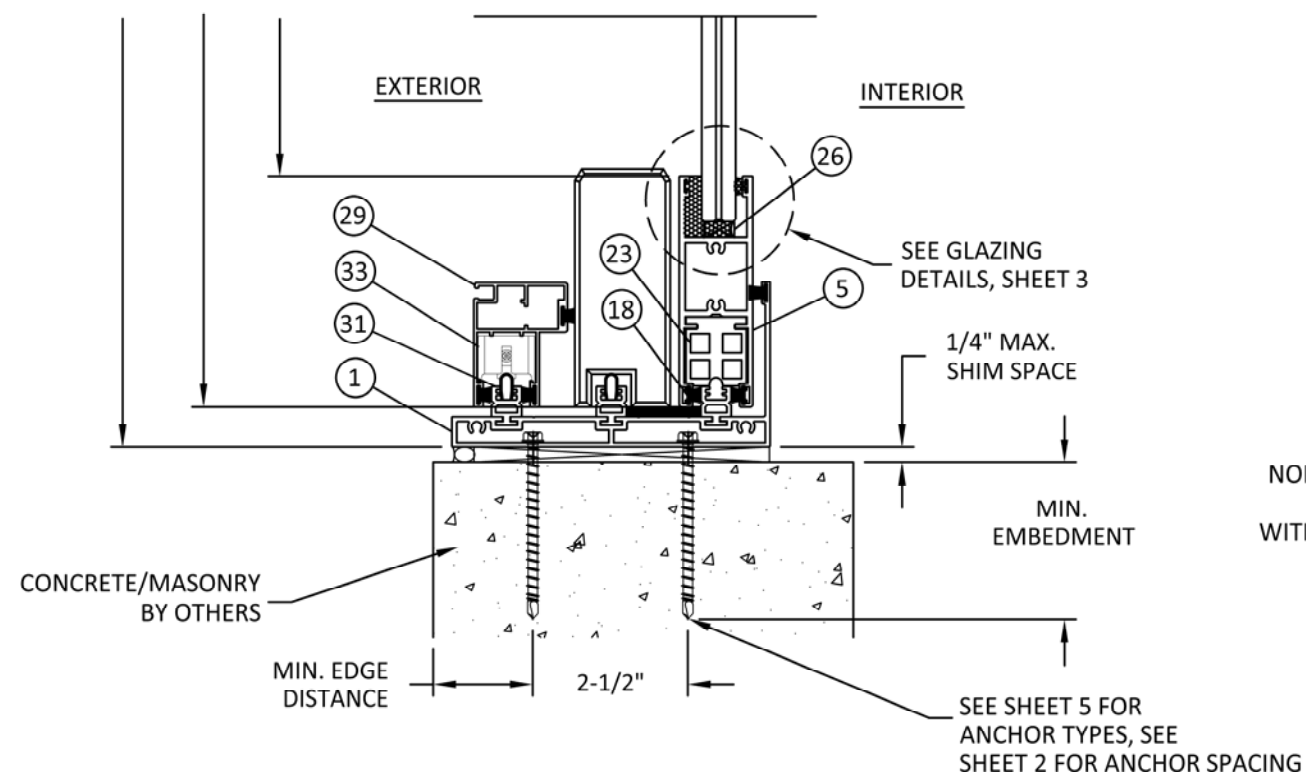
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REV. A

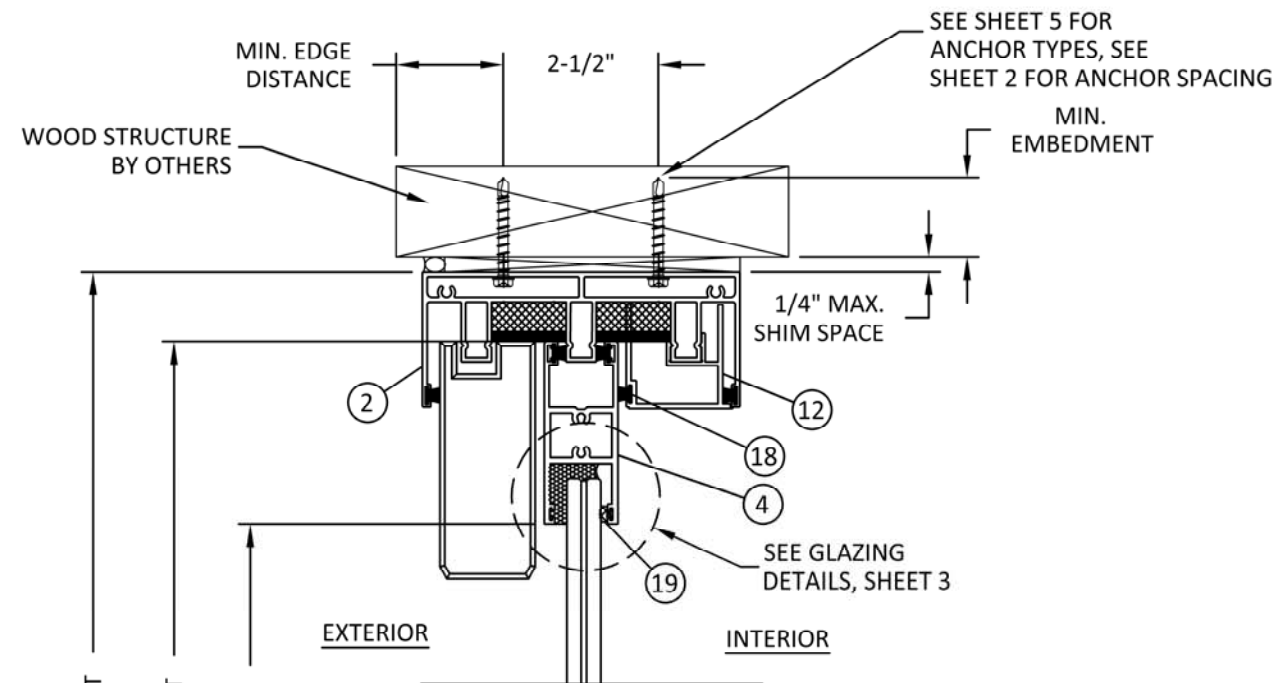
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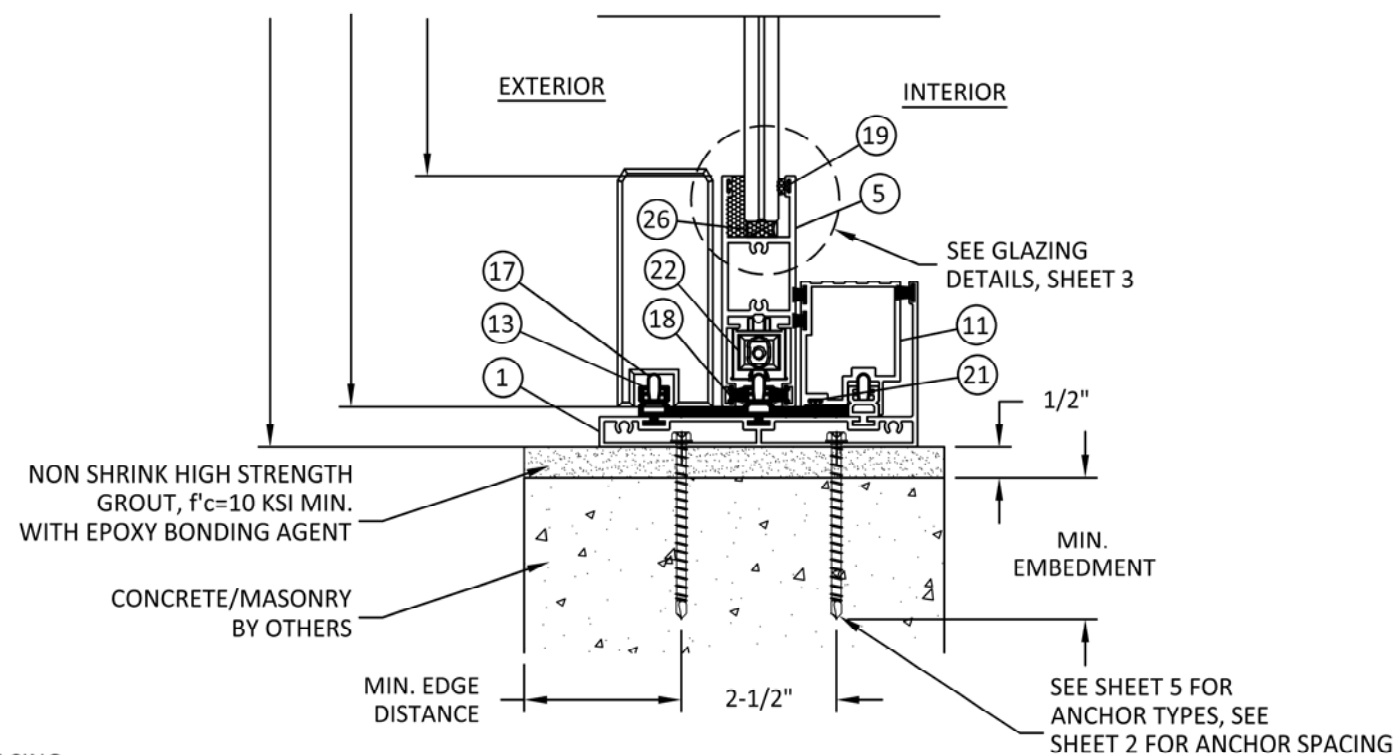
A
5
VERTICAL SECTION
HEAD



B
5
VERTICAL SECTION
SILL



C
5
VERTICAL SECTION
HEAD



D
5
VERTICAL SECTION
SILL

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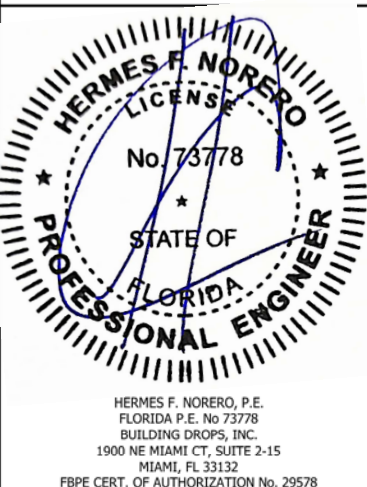
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VERTICAL SECTIONS

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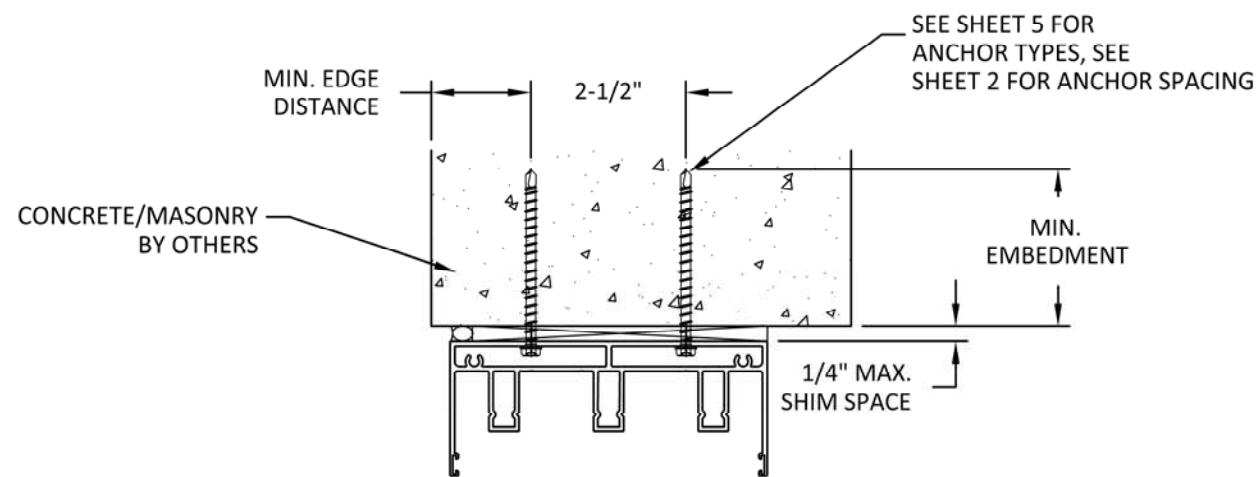
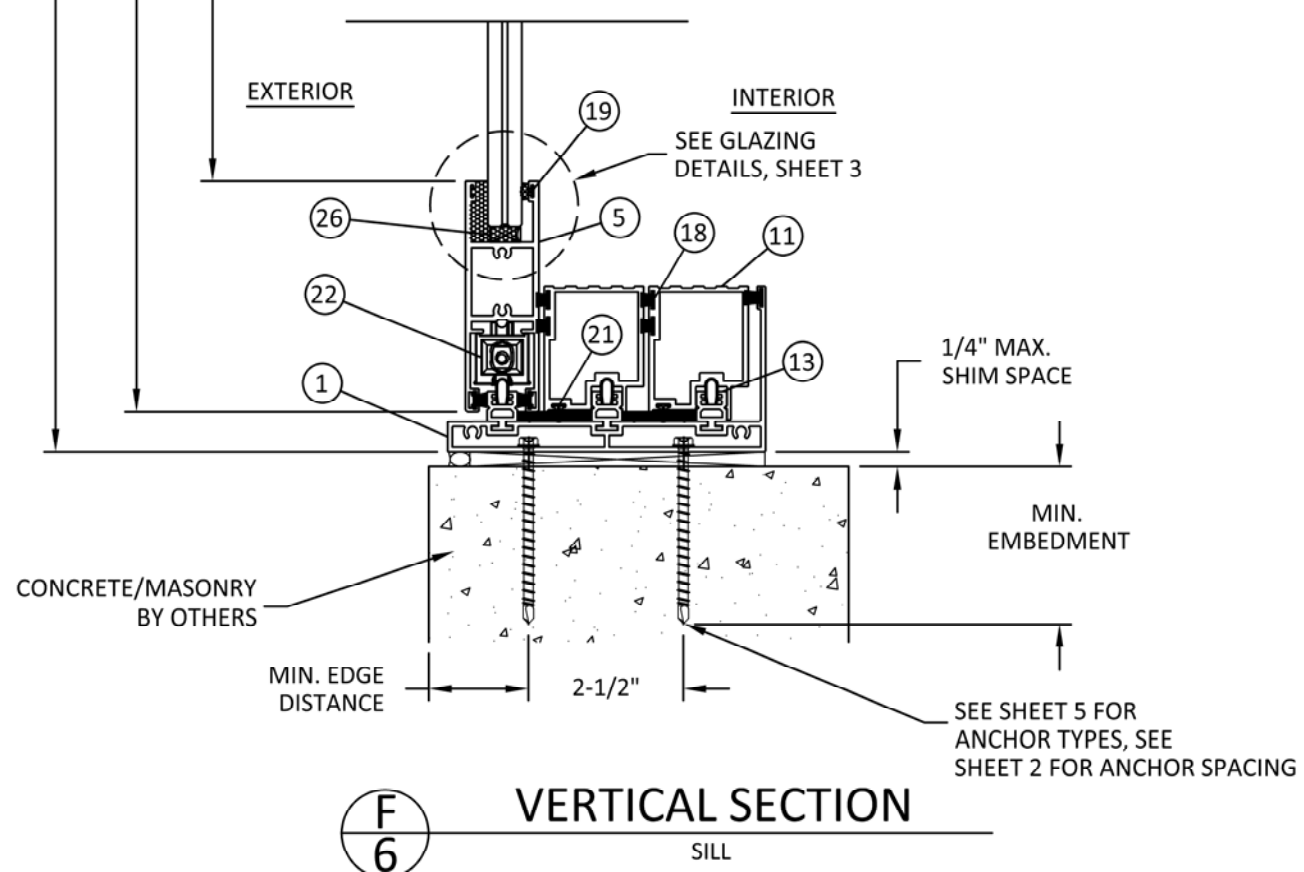
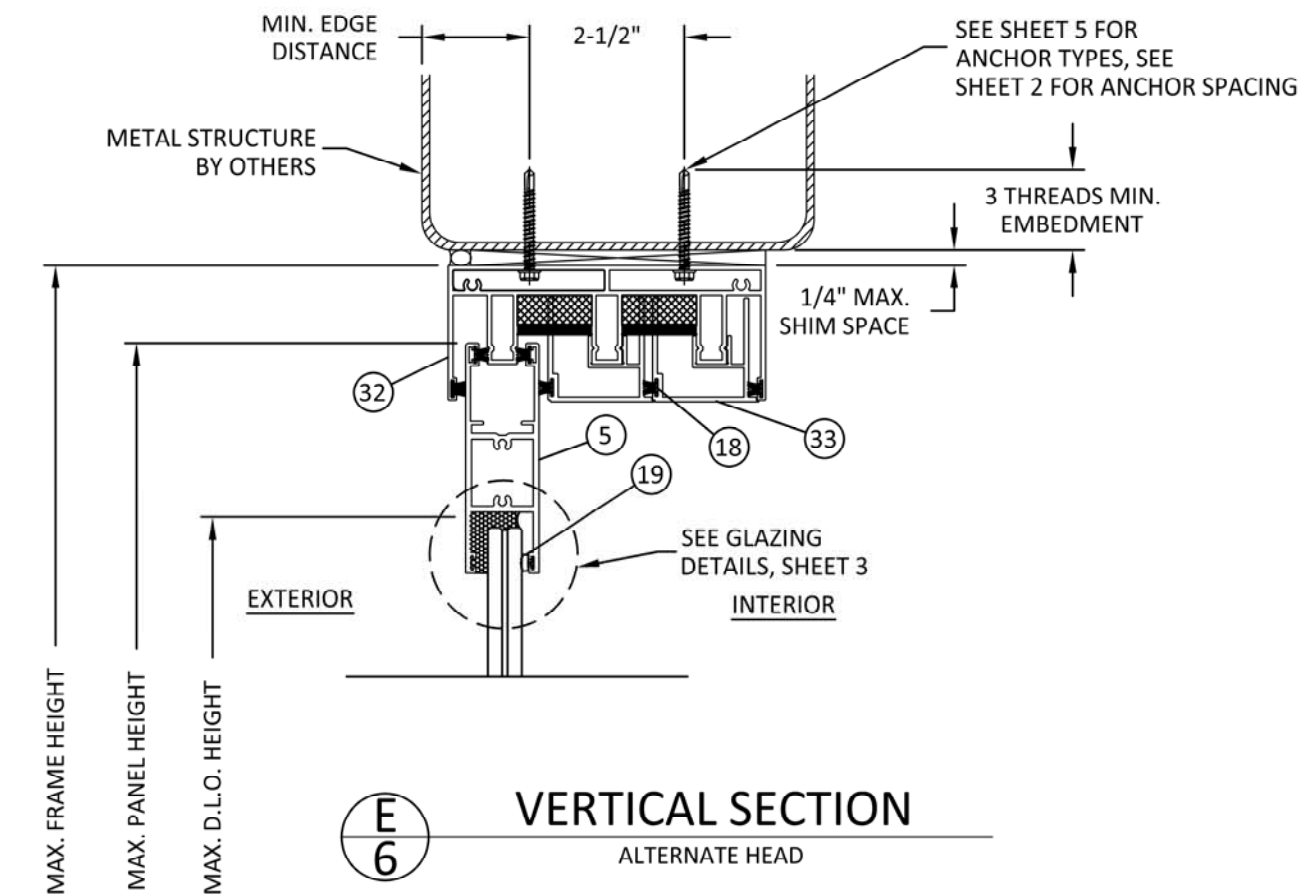
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ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2 BY WOOD BUCKS OR WOOD STRUCTURES.
 1 1/2" MIN. PENETRATION INTO WOOD

THRU 1 BY BUCKS INTO CONCRETE OR BLOCKS
 1 3/4" MIN. EMBED INTO CONCRETE
 1 3/4" MIN. EMBED IN TO BLOCKS (JAMB ONLY)

DIRECTLY INTO CONCRETE OR BLOCKS
 1 3/4" MIN. EMBED INTO CONCRETE
 1 3/4" MIN. EMBED INTO HOLLOW /GROUT FILLED BLOCK (JAMB ONLY)

TYPE 'B' -- 1/4" DIA. DRILL FLEX -TEKS (GRADE 5) (Fu=120 KSI, Fy=92 KSI)
 INTO FBC APPROVED MULLIONS (1/8" THK. MIN.) (6063-T6 MIN)
 OR INTO METAL STRUCTURES, STEEL: 1/8" THK. MIN. (Fy=36 KSI MIN.)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

MIN. EDGE DISTANCES:

INTO CONCRETE = 2-1/2" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMB f'c=3000PSI MIN.
 C-90 HOLLOW/ FILLED BLOCK AT JAMBS f'm=2000 PSI MIN.

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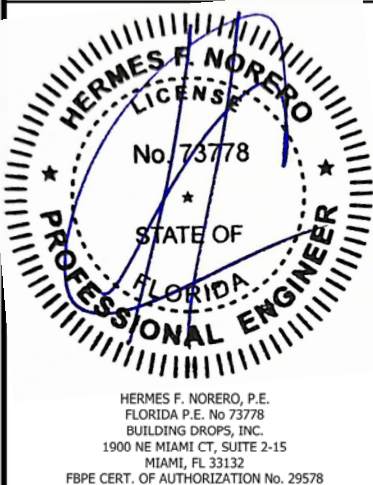
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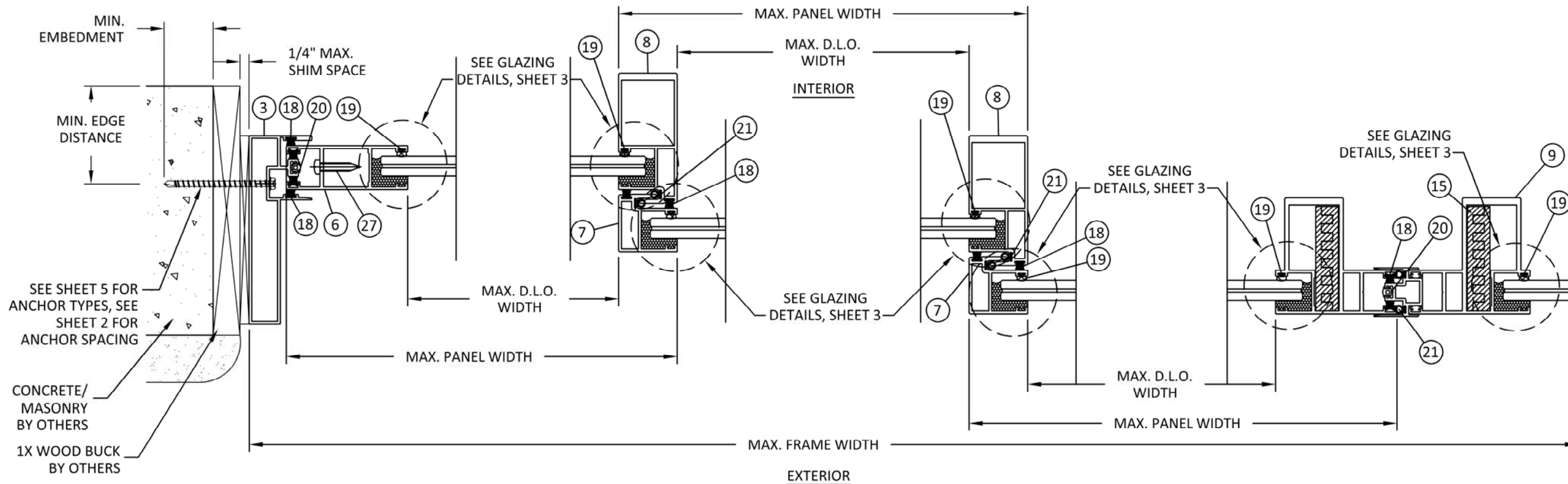
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 CHK. BY: HFN

SCALE: NTS

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SHEET: REV. A

6
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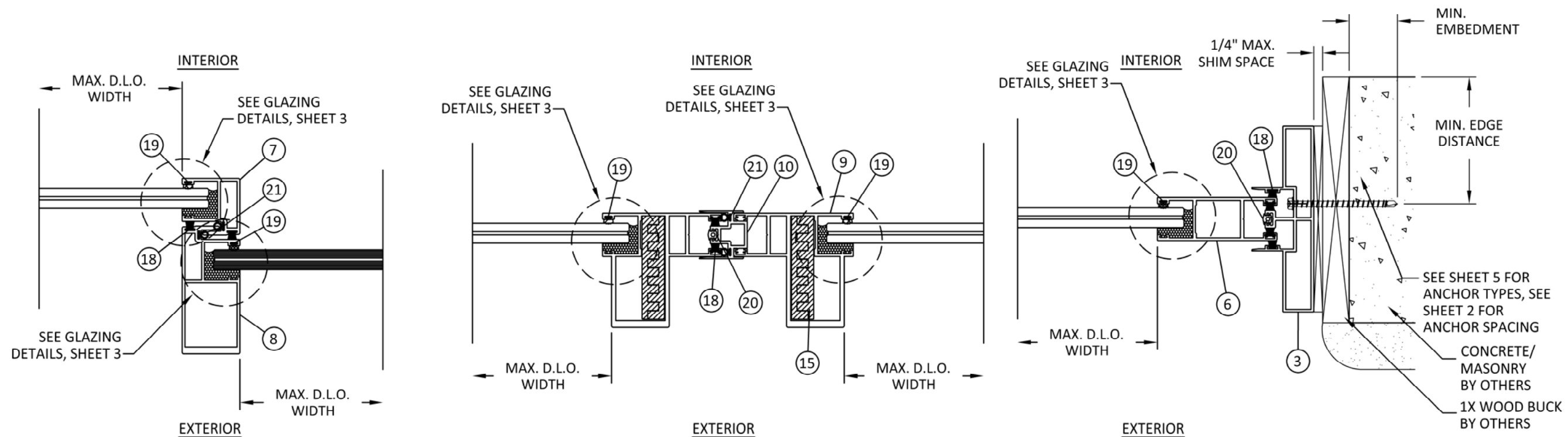


G HORIZONTAL SECTION JAMB FIXED PANEL

H HORIZONTAL SECTION INTERLOCK

I HORIZONTAL SECTION INTERLOCK

J HORIZONTAL SECTION MEETING STILE



K HORIZONTAL SECTION INTERLOCK

L HORIZONTAL SECTION MEETING STILE

M HORIZONTAL SECTION JAMB

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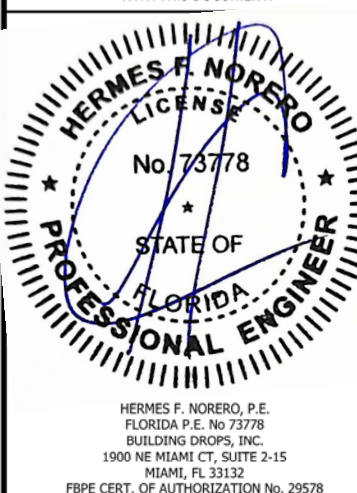
TITLE: LR-230 ALUMINUM
SLIDING GLASS DOOR
(HVHZ)(IMPACT)
HORIZONTAL SECTIONS

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



REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26

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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL38755

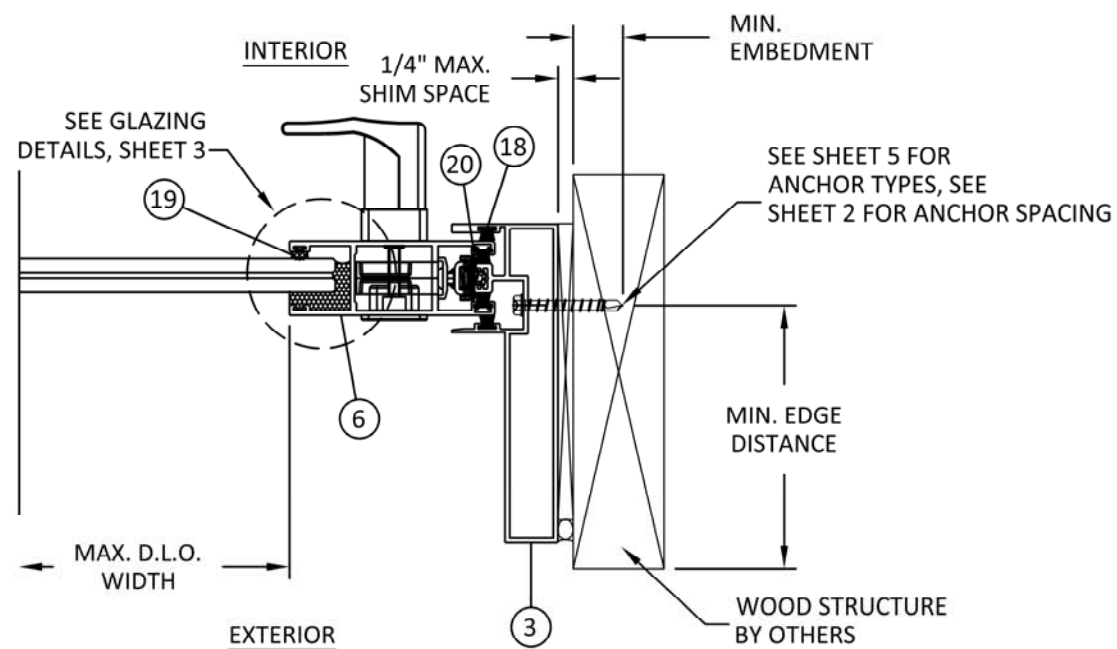
DATE: 10.06.2023

DWG. BY: SH
CHK. BY: HFN

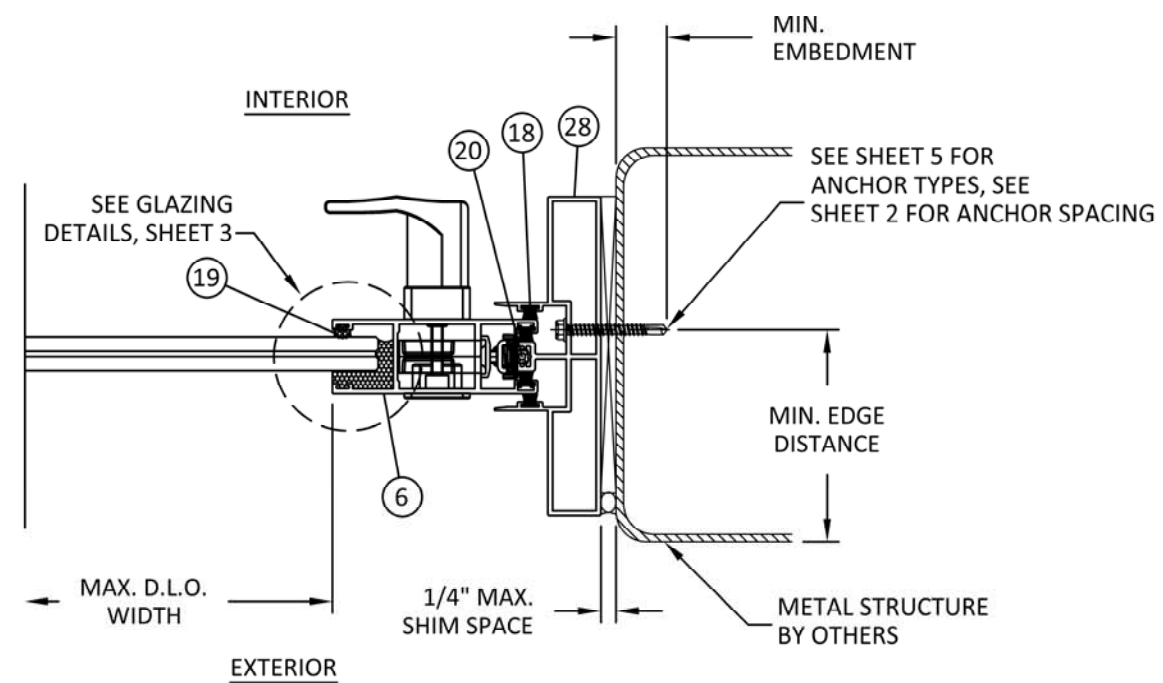
SCALE: NTS

DWG. #: LRA015

SHEET: 7
REV. A



N
8 HORIZONTAL SECTION
JAMB



O
8 HORIZONTAL SECTION
JAMB

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DORAL, FL 33126
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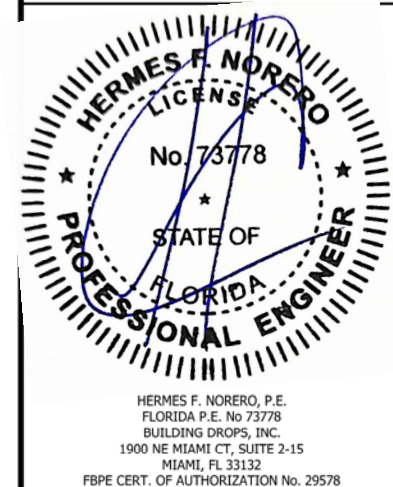
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SLIDING GLASS DOOR
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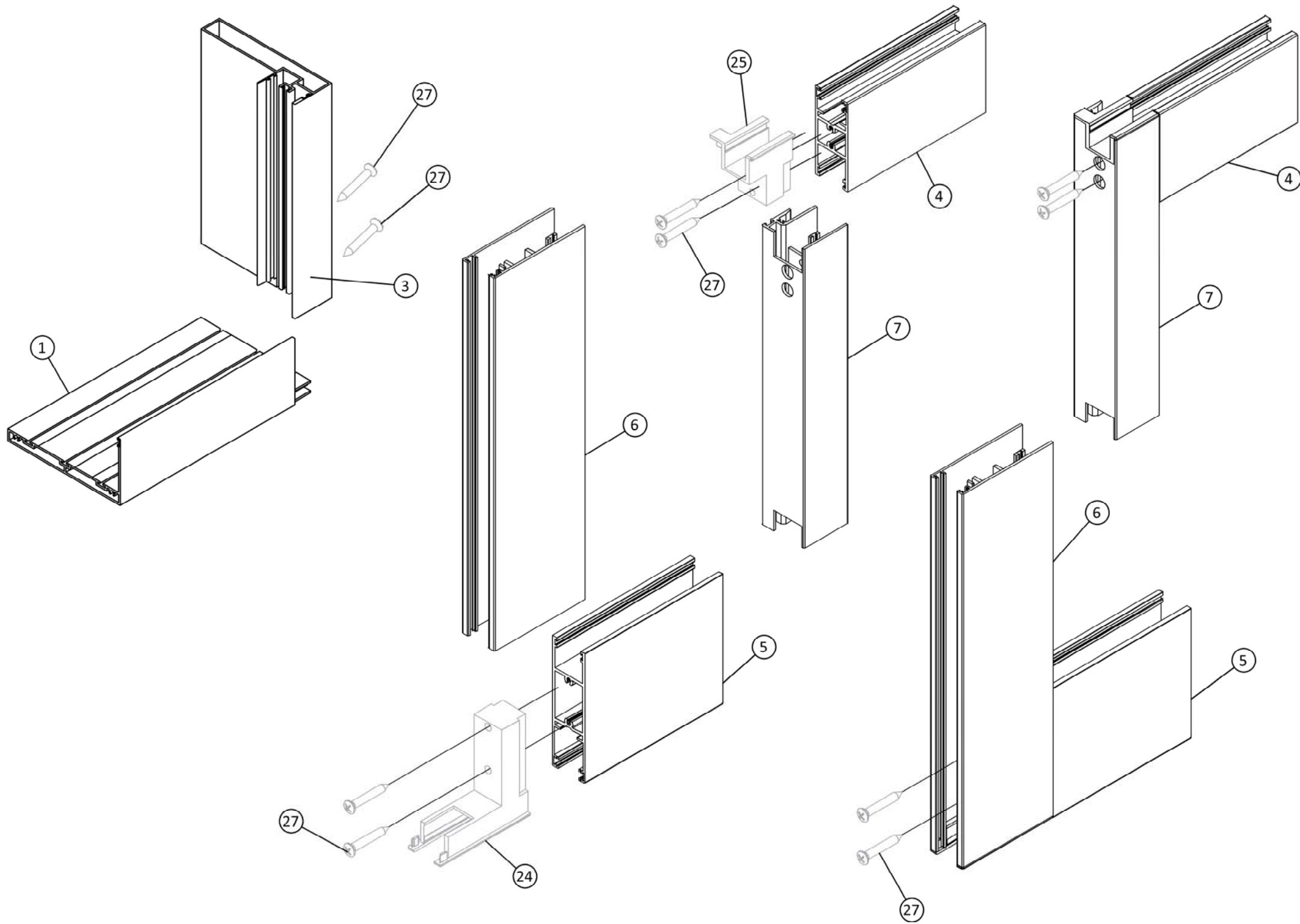


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SCALE: NTS	
DWG. #: LRA015	
SHEET:	REV. A
8	OF 11

CORNER CONSTRUCTION



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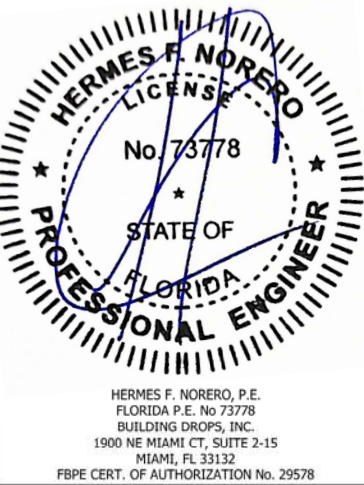
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SLIDING GLASS DOOR
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CORNER CONSTRUCTION

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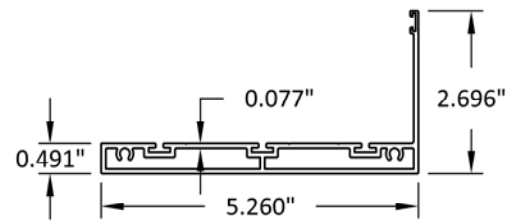
BD
BUILDING DROPS

REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26

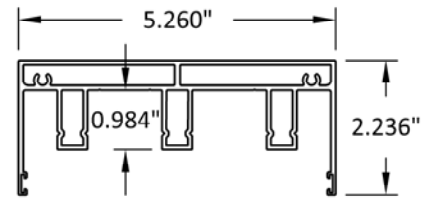
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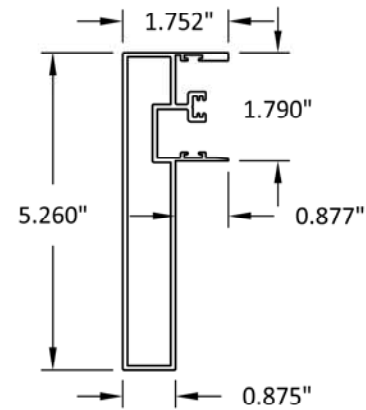
FL38755	
DATE: 10.06.2023	
DWG. BY: SH	CHK. BY: HFN
SCALE: NTS	
DWG. #: LRA015	
SHEET:	REV. A
9	OF 11



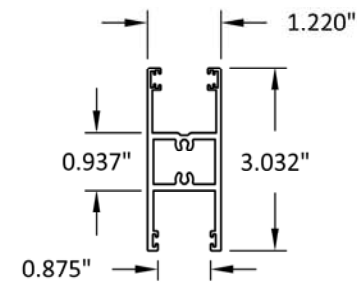
1 3 TRACK FRAME SILL
ALUM. 6063-T6



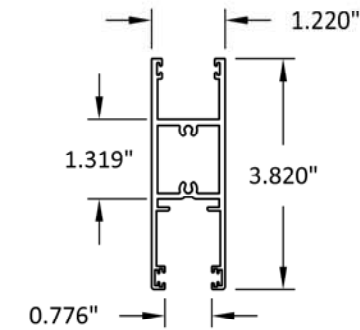
2 3 TRACK FRAME HEAD
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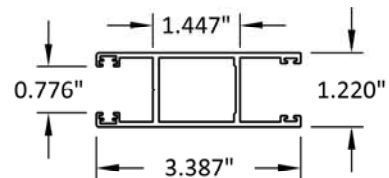
3 3 TRACK FRAME JAMB
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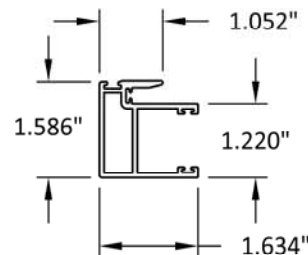
4 TOP SASH
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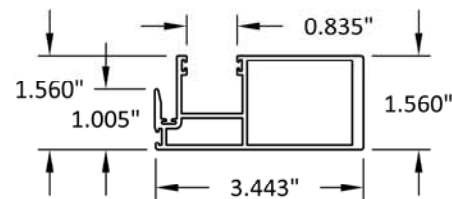
5 BOTTOM SASH
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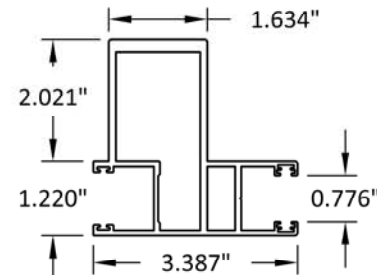
6 JAMB/LOCK SASH
ALUM. 6063-T6



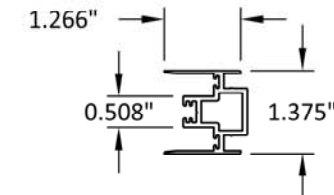
7 INTERLOCK STILE
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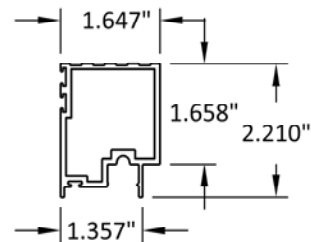
8 H.D. INTERLOCK STILE
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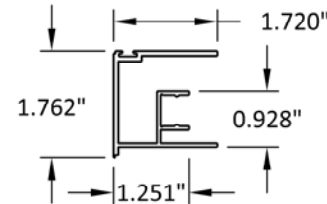
9 HEAVY LOCK STILE
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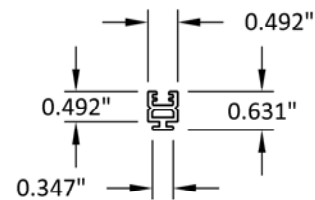
10 ASTRAGAL STILE
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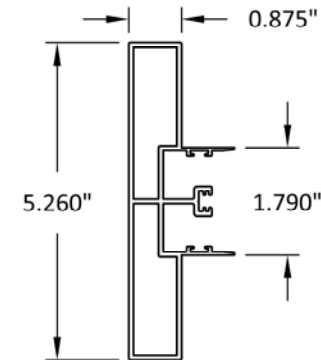
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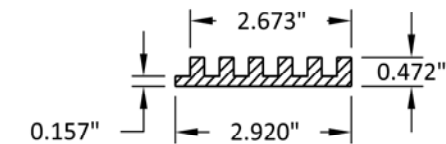
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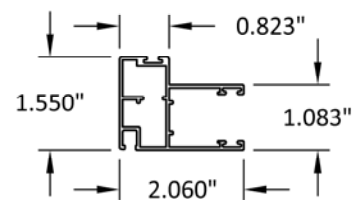
13 BOTTOM RAIL PROFILE
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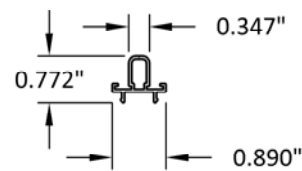
14 3 TRACK FRAME JAMB
ALUM. 6063-T6



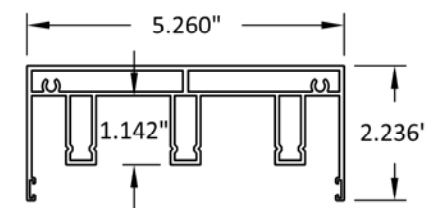
15 REINFORCEMENT
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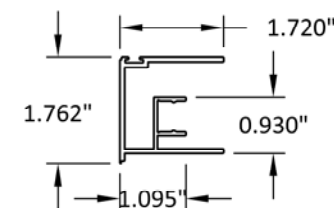
16 FLY SCREEN SASH
ALUM. 6063-T6



28 FLYSCREEN ASTRAGAL STILE
ALUM. 6063-T6



32 ALTERNATE 3 TRACK FRAME HEAD
ALUM. 6063-T6



33 ALTERNATE COVER PROFILE
ALUM. 6063-T6

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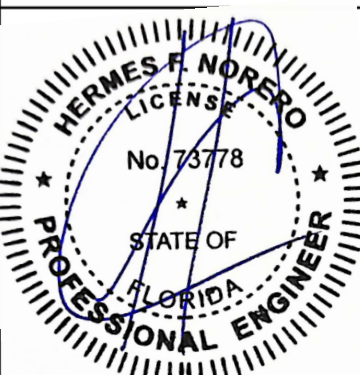
LR-230 ALUMINUM
SLIDING GLASS DOOR
(HVHZ)(IMPACT)
COMPONENTS

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1900 NE MIAMI COURT, STE. 2-15
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REMARKS	BY	DATE
2026 FBC UPDATE	LS	06/26

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1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL38755

DATE: 10.06.2023

DWG. BY: SH	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: **LRA015**

SHEET:	REV.
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10 OF 11

BILL OF MATERIALS				
ITEM	PART NO.	DESCRIPTION	MATERIAL	MANF. / REMARKS
1	LR230-05	3 TRACK FRAME SILL	6063-T6	LINEA ROSSA
2	LR230-06	3 TRACK FRAME HEAD	6063-T6	LINEA ROSSA
3	LR230-08	3 TRACK FRAME JAMB	6063-T6	LINEA ROSSA
4	LR230-10	TOP SASH	6063-T6	LINEA ROSSA
5	LR230-11	BOTTOM SASH	6063-T6	LINEA ROSSA
6	LR230-12	JAMB/LOCK SASH	6063-T6	LINEA ROSSA
7	LR230-13	INTERLOCK STILE	6063-T6	LINEA ROSSA
8	LR230-14	H.H. INTERLOCK STILE	6063-T6	LINEA ROSSA
9	LR230-23	HEAVY LOCK STILE	6063-T6	LINEA ROSSA
10	LR230-19	ASTRAGAL STILE	6063-T6	LINEA ROSSA
11	LR230-09	COVER PROFILE	6063-T6	LINEA ROSSA
12	LR230-04	COVER PROFILE	6063-T6	LINEA ROSSA
13	LR230-15	BOTTOM RAIL PROFILE	6063-T6	LINEA ROSSA
14	LR230-07	3 TRACK FRAME JAMB	6063-T6	LINEA ROSSA
15	LR230-24	REINFORCEMENT INTERLOCKED (FULL LENGTH)	6063-T6	LINEA ROSSA
16	LR-230-21	FLY SCREEN SASH	6063-T6	LINEA ROSSA
17	B5611214	STAINLESS STEEL DRIVER	STAINLESS STEEL	LINEA ROSSA
18	B4711006	67X600 SEALING BRUSH TRI-FIN	POLYPROPYLENE	LINEA ROSSA
19	B5410091	GLAZING GASKET	EPDM	LINEA ROSSA
20	B4310022	GASKET FOR FRAME RAILS	EPDM	LINEA ROSSA
21	B4510092	SASH GASKET	EPDM	LINEA ROSSA
22	B1110205	SLIDING AND AD. CARRIAGE	ALUMINUM	LINEA ROSSA
23	B5410230	SASH FIXING PART	PVC	LINEA ROSSA
24	B2610230	90° W. CORNER WIDE JOINTS	PVC	LINEA ROSSA
25	B2610231	90° W. CORNER NARROW JOINTS	PVC	LINEA ROSSA
26	B2410003	SETTING BLOCK	EPDM	LINEA ROSSA
27	-	#10 X 1" PHP. PH. SMS. FRAME & PANEL ASSY SCREW.	STAINLESS STEEL	LINEA ROSSA
28	LR3130	FLYSCREEN ASTRAGAL STILE	6063-T6	LINEA ROSSA
29	LR230-16	BOTTOM FLYSCREEN RAIL	6063-T6	LINEA ROSSA
30	LR230-18	TOP FLYSCREEN RAIL	6063-T6	LINEA ROSSA
31	B1120206	SINGLE FLYSCREEN ROLLER	PVC	LINEA ROSSA
32	LR230-31	ALTERNATE 3 TRACK FRAME HEAD	6063-T6	LINEA ROSSA
33	LR230-34	COVER PROFILE	6063-T6	LINEA ROSSA

DESIGNED by
LINEA ROSSA®

1850 NW. 84TH AVE., STE. 114
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TITLE:
LR-230 ALUMINUM
SLIDING GLASS DOOR
(HVHZ)(IMPACT)
BILL OF MATERIALS

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

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REV.
A

OF 11