

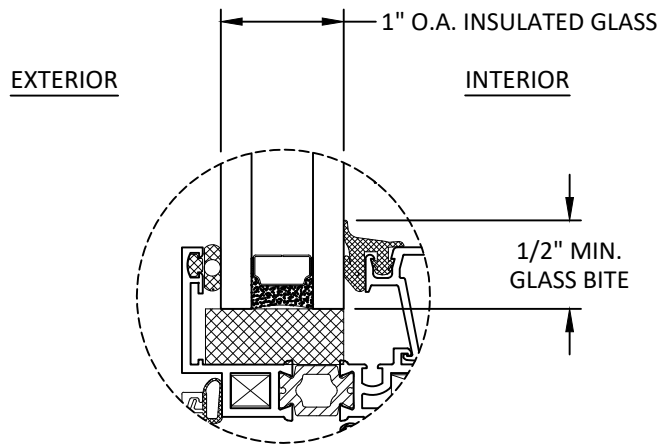
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TUBELITE, INC.

TUBELITE® 1350 SERIES ALUMINUM CASEMENT WINDOW (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
- 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.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAIL.
- CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.



GLAZING DETAIL 1

GLAZING NOTES:

- GLASS TYPE SHALL COMPLY 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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2	ELEVATION, ANCHOR LAYOUT, & DESIGN PRESSURE TABLES
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4	HORIZONTAL SECTIONS
5	HORIZONTAL SECTIONS
6	ANCHOR DETAILS AND INSTALLATION NOTES

DESIGN PRESSURE RATING (PSF)					
CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	LOCKING HARDWARE	MISSILE IMPACT RATING
X	32"	60"	+80/-80 PSF	CAM LOCKS	NON-IMPACT RATED
X	32"	60"	+70/-70 PSF	MULTI-POINT LOCK	NON-IMPACT RATED

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WALKER, MICHIGAN 49544

PH: 800 866 2227 FX: 616 301 0008

TITLE: TUBELITE® 1350 SERIES
ALUMINUM CASEMENT WINDOW
(NON-HVHZ)(NON-IMPACT)

GENERAL NOTES AND
GLAZING DETAIL

PREPARED BY: BUILDING DROPS, INC.

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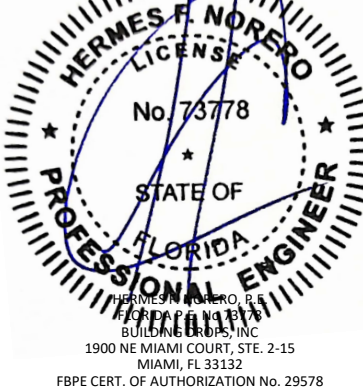
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Reason: I am approving this document
Date: 2023.10.20 17:23:38 -0400



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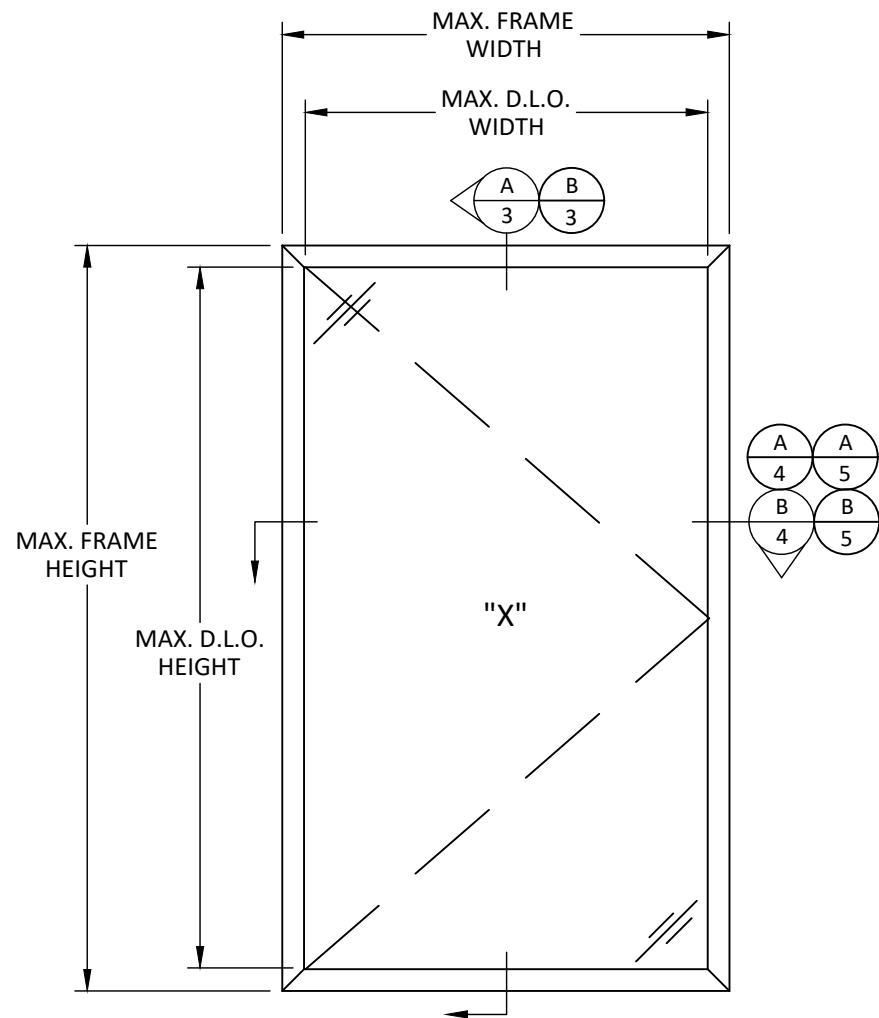
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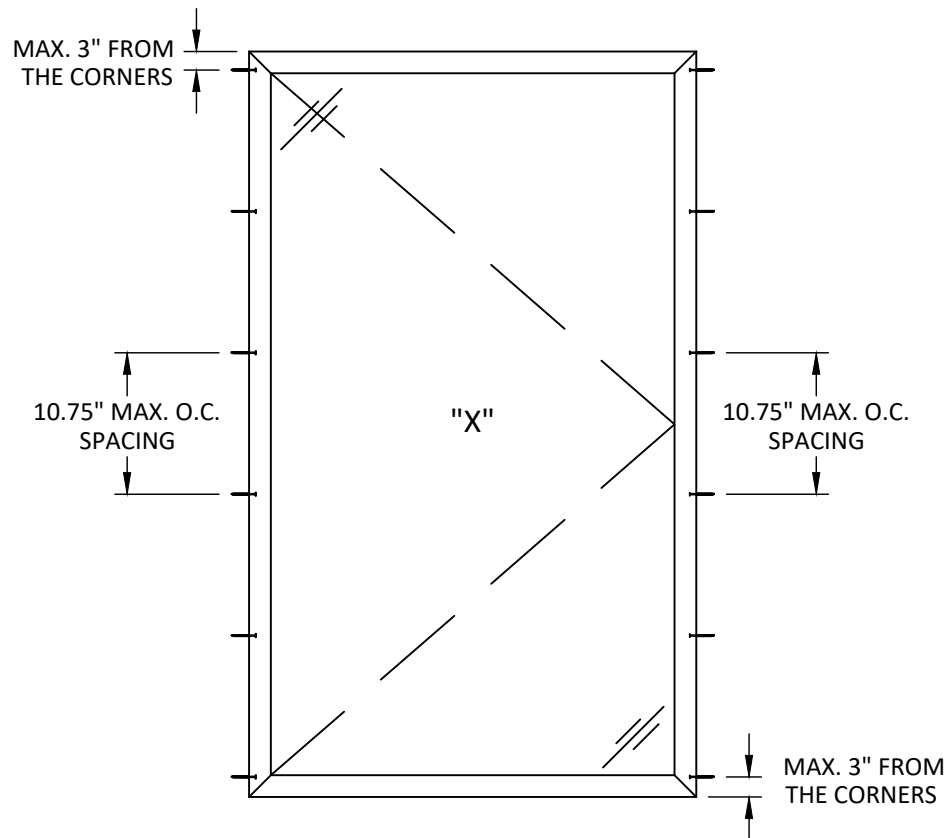
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ELEVATION

D.L.O. HEIGHT = FRAME HEIGHT - 6.6"
D.L.O. WIDTH = FRAME WIDTH - 4.84"



ANCHOR LAYOUT
THROUGH-FRAME

NOTE: NO ANCHORS REQUIRED THROUGH
HEAD OR SILL.

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		CAM LOCKS	MULTI- POINT LOCK
FRAME WIDTH (in.)	FRAME HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
14.0	36.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0		80.0	70.0
14.0	42.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0		80.0	70.0
38.0		67.4	58.9
14.0	48.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0		80.0	70.0
38.0		67.4	58.9
14.0	54.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0		80.0	70.0
14.0	60.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0		80.0	70.0
14.0	66.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0		80.0	70.0
14.0	72.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0		80.0	70.0
14.0	78.0	80.0	70.0
20.0		80.0	70.0
14.0	84.0	80.0	70.0
20.0		80.0	70.0
14.0	90.0	80.0	70.0
20.0		80.0	70.0
14.0	96.0	80.0	70.0
20.0		80.0	70.0
14.0	102.0	80.0	70.0

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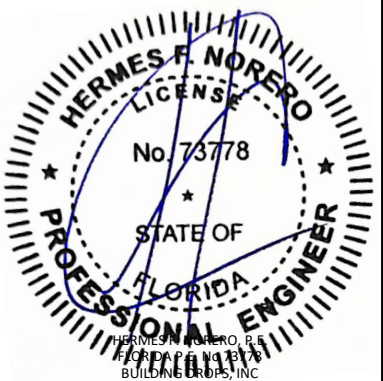
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ALUMINUM CASEMENT WINDOW
(NON-HVHZ)/(NON-IMPACT)
ELEVATION, ANCHOR LAYOUT,
& DESIGN PRESSURE TABLES

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FBPE CERT. OF AUTHORIZATION No. 29578

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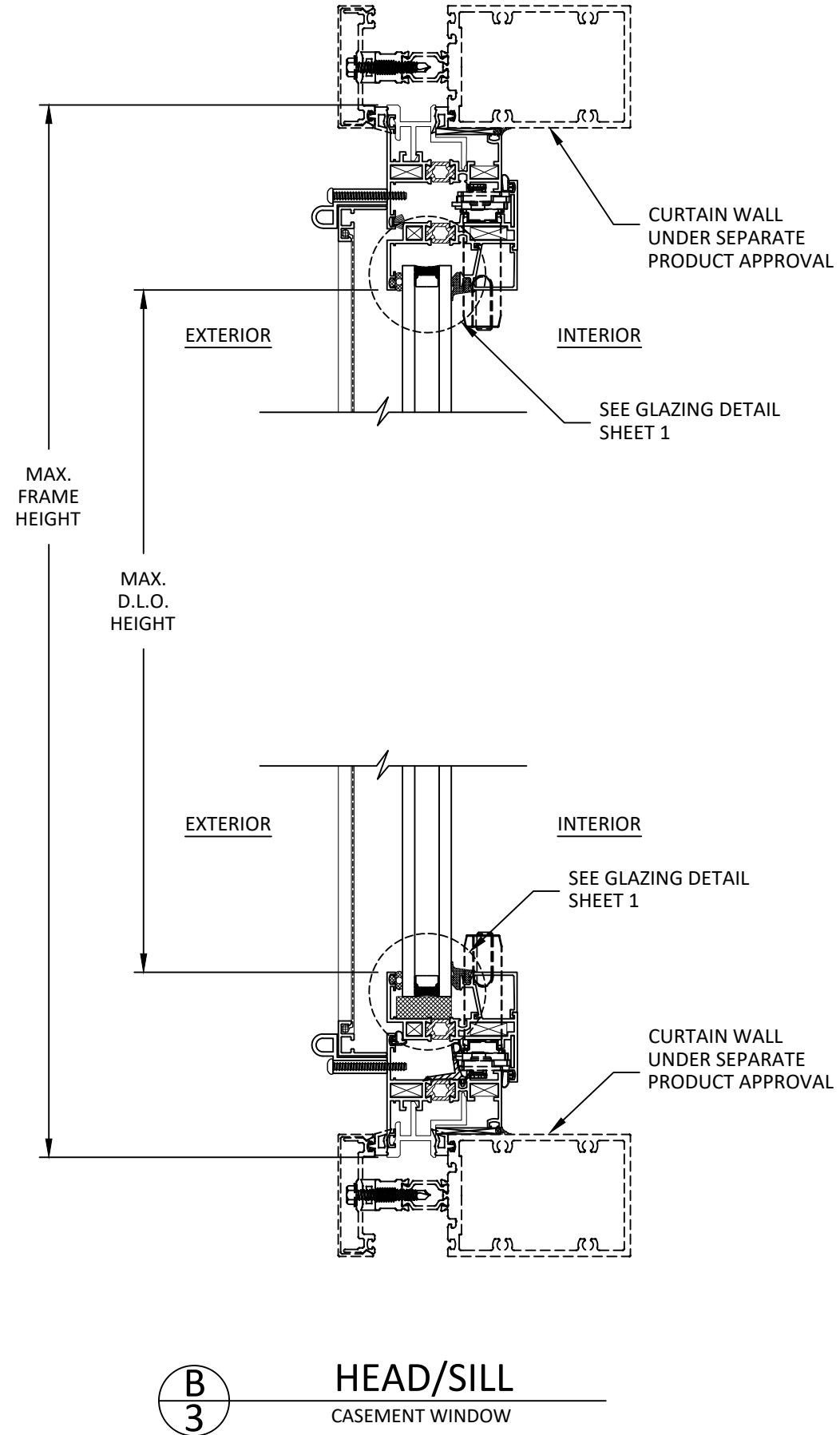
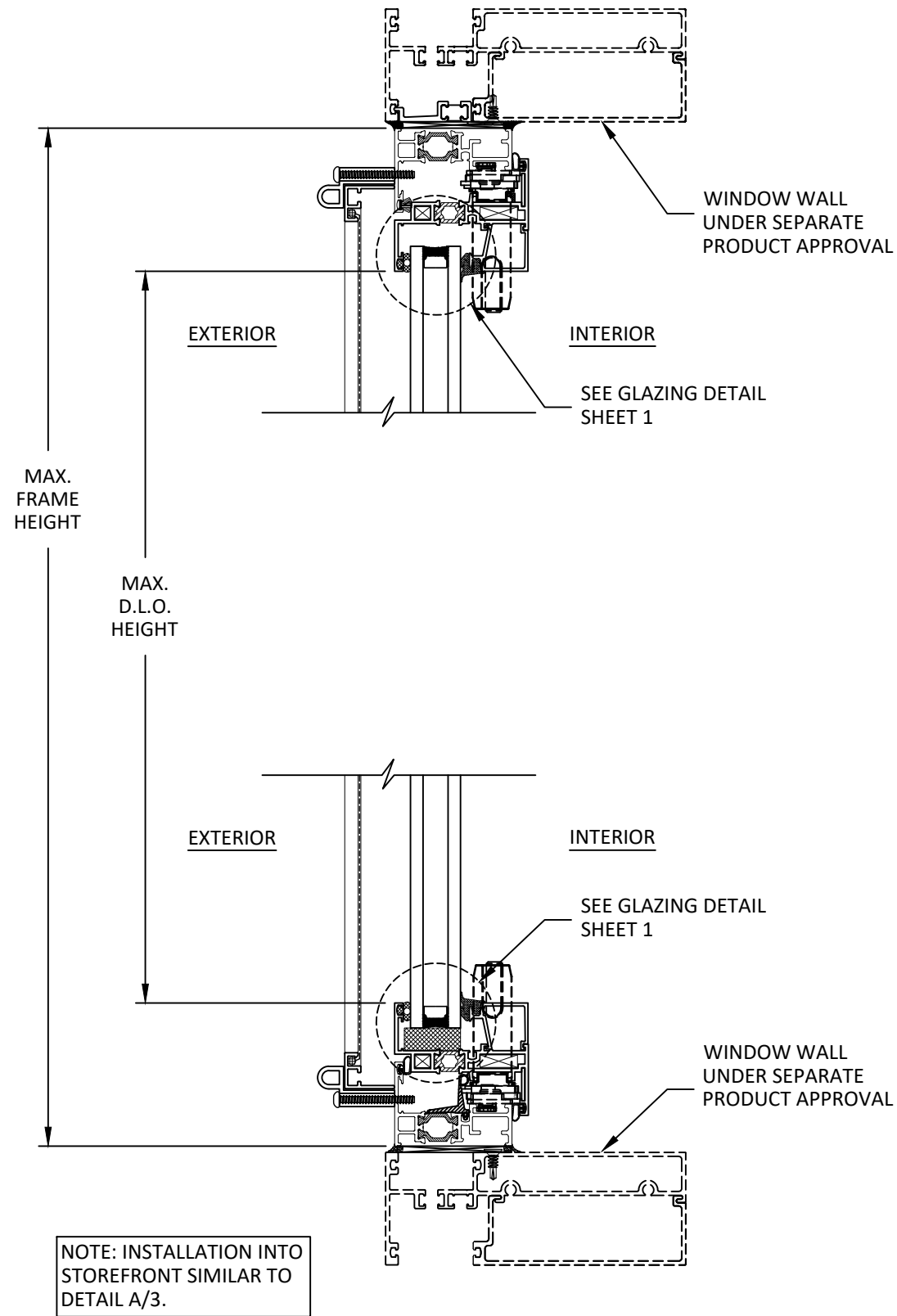
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VERTICAL SECTIONS

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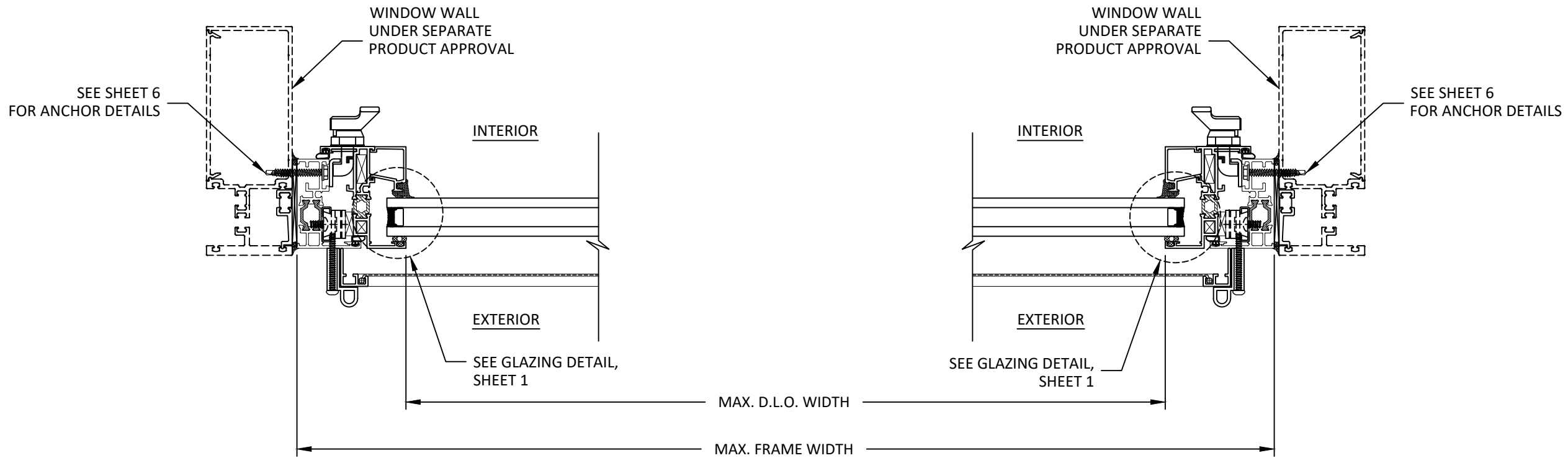
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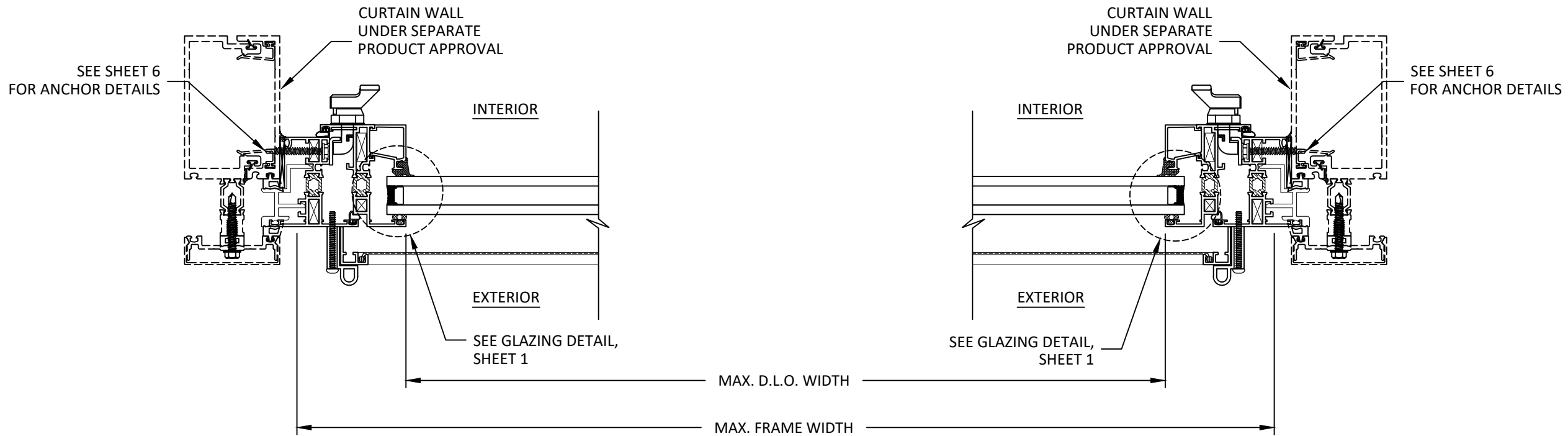
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NOTE: INSTALLATION INTO
STOREFRONT SIMILAR TO
DETAIL A/4.

A
4

JAMBS
CASEMENT WINDOW
WITH CAM LOCKS



B
4

JAMBS
CASEMENT WINDOW
WITH CAM LOCKS

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HORIZONTAL DETAILS

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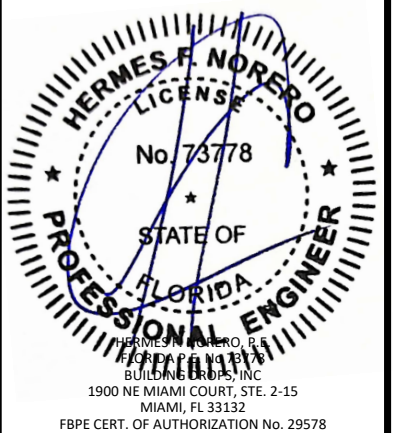
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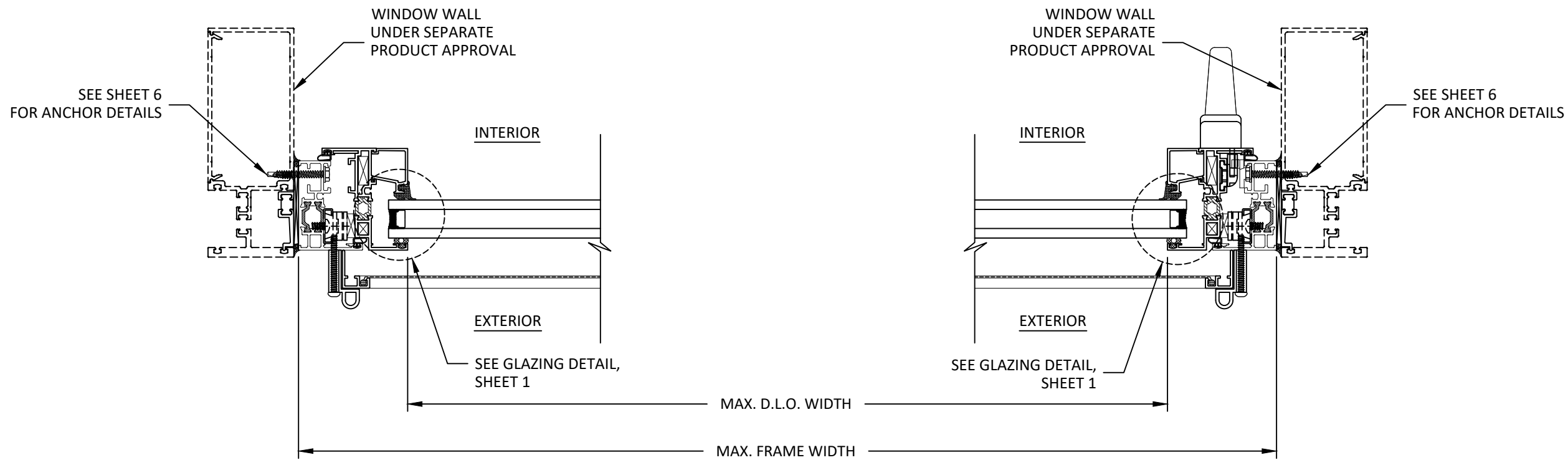
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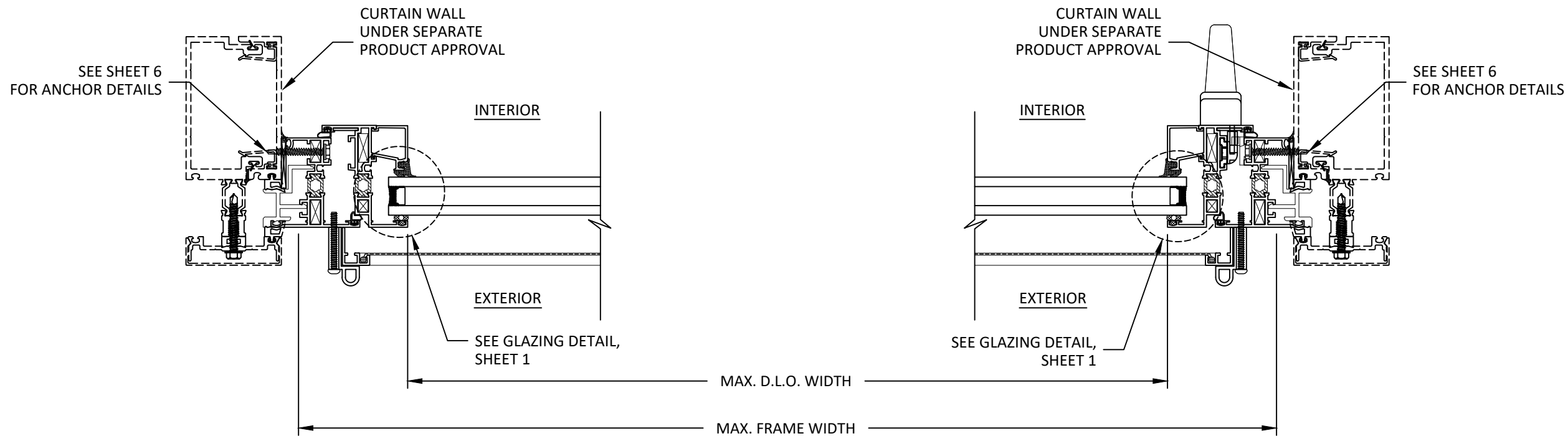


NOTE: INSTALLATION INTO STOREFRONT SIMILAR TO DETAIL A/5.

A
5

JAMBS

CASEMENT WINDOW
WITH MULTI-POINT LOCK



B
5

JAMBS

CASEMENT WINDOW
WITH MULTI-POINT LOCK

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HORIZONTAL DETAILS

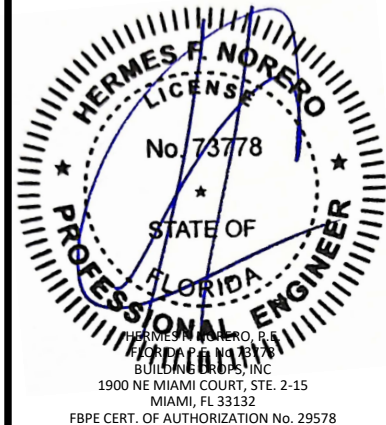
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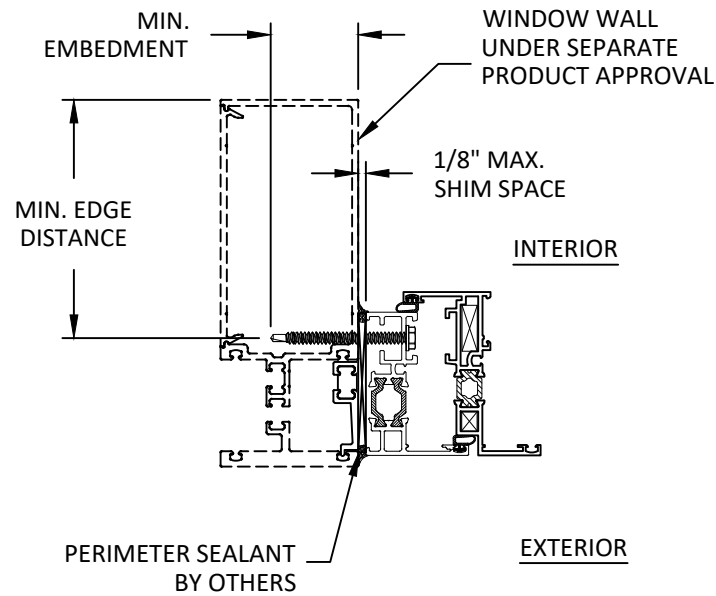
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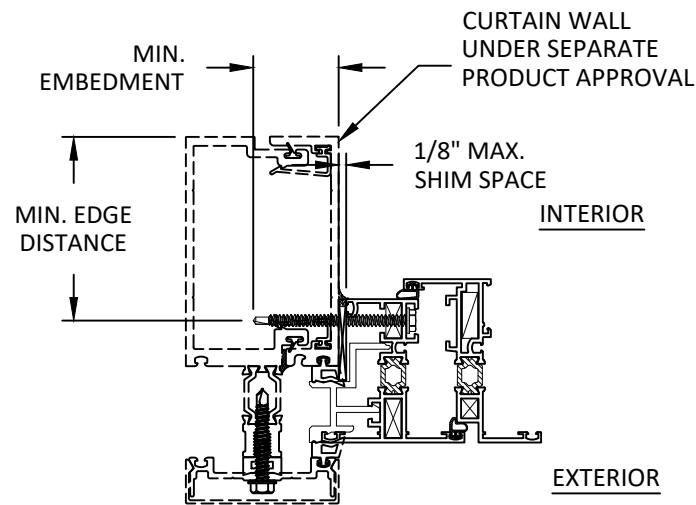


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A
6 JAMB
THROUGH FRAME INSTALLATION



B
6 JAMB
THROUGH FRAME INSTALLATION

NOTE: NO ANCHORS REQUIRED THROUGH HEAD OR SILL.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 2.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ± 1.000 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 1/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- 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.
- 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.
- 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.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/16" MIN., 6063-T5	#10 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"

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ANCHOR DETAILS AND
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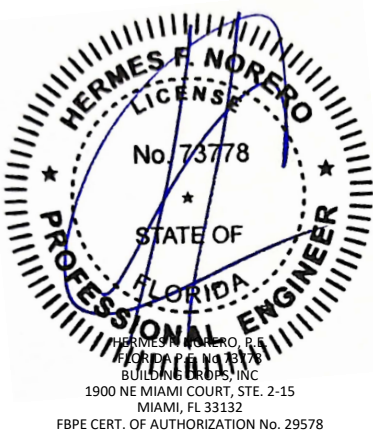
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