

LINEA ROSSA LLC

LR-210 ALUMINUM SINGLE HUNG WINDOW

(HVHZ)(IMPACT)

GENERAL NOTES:

1. 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
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 IN NON-HVHZ AREAS.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

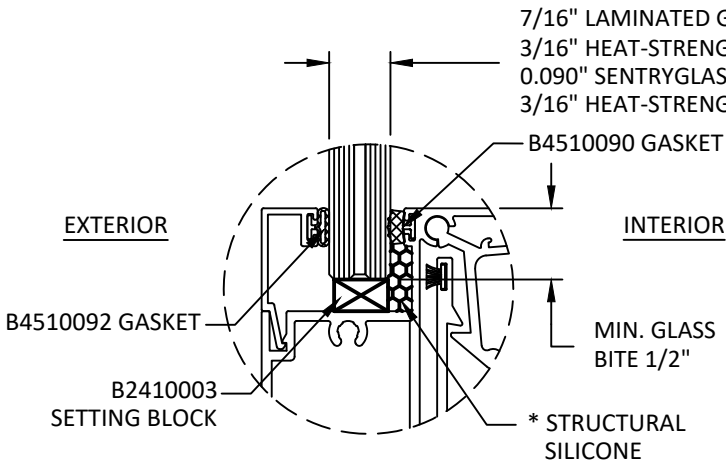
GLAZING NOTES:

1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SACRIFICIAL LITE SHALL BE TEMPERED WHEN INSTALLED 30' OR HIGHER ABOVE GRADE IN HVHZ.
3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
4. TWO APPROVED SETTING BLOCKS SHALL BE USED FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
5. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DP TABLE ON SHEET 1 AND ELEVATIONS ON SHEETS 2 & 3.

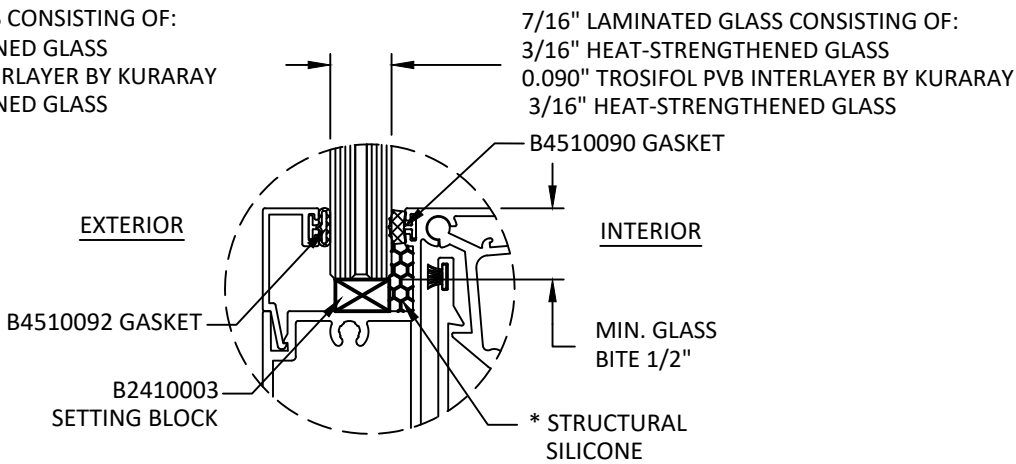
MAX. WINDOW FRAME SIZE		CONFIG.	DESIGN PRESSURE	INTEGRAL MULLION	MISSILE IMPACT RATING
WIDTH	HEIGHT				
42"	90"	O/X	+90/-90 PSF	N/A	LARGE & SMALL MISSILE IMPACT
42"	90"	OX / OX	+65/-65 PSF	LIGHT	
42"	90"	OX / OX	+90/-90 PSF	HEAVY	

NOTE: FOR "OX / OX" CONFIGURATIONS THE MINIMUM DESIGN PRESSURE BETWEEN THE TABLES ON SHEETS 2 & 3 SHALL BE APPLIED TO THE ENTIRE SYSTEM.

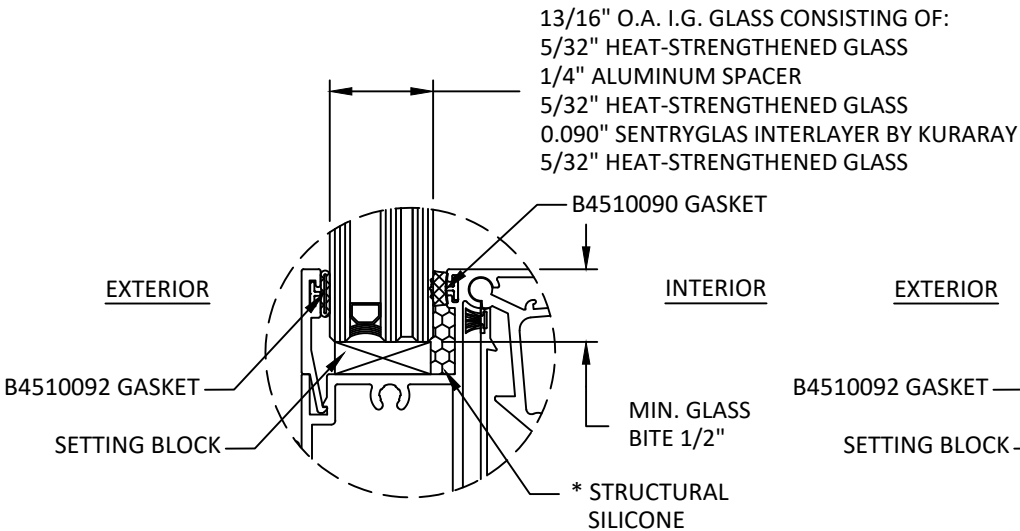
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4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
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7	INSTALLATION NOTES & ANCHOR DETAILS



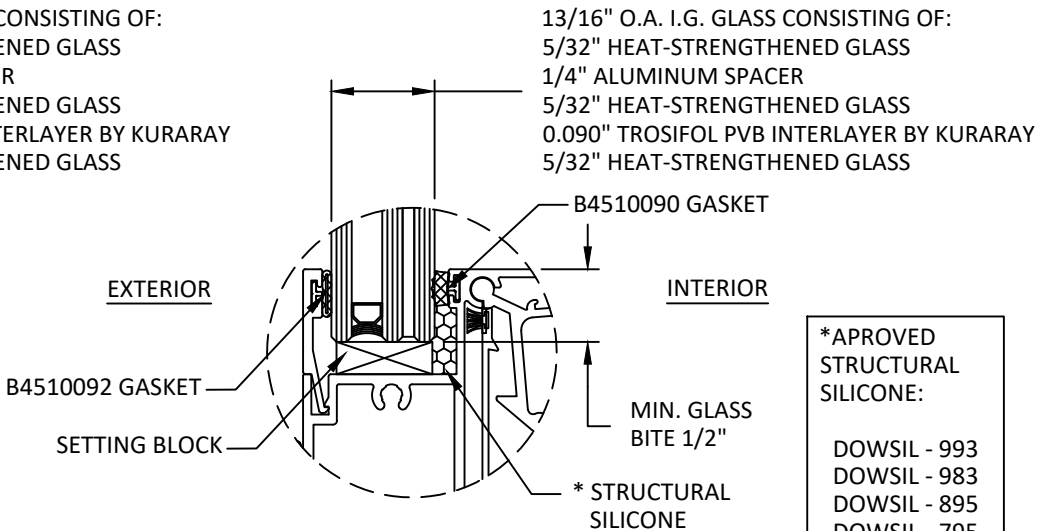
GLAZING DETAIL 1



GLAZING DETAIL 2



GLAZING DETAIL 3



GLAZING DETAIL 4

*APROVED
STRUCTURAL
SILICONE:

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

LINEA ROSSA®

WINDOWS & DOORS

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

TITLE: LR-210 ALUMINUM
SINGLE HUNG WINDOW
(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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Digitally signed by **Hermes F. Norero, P.E.**
Reason: I am approving this document
Date: 2022.10.06 17:57:00 -0400



FL39251

DATE: 10.06.2023

DWG. BY:
SH

CHK. BY:
HFN

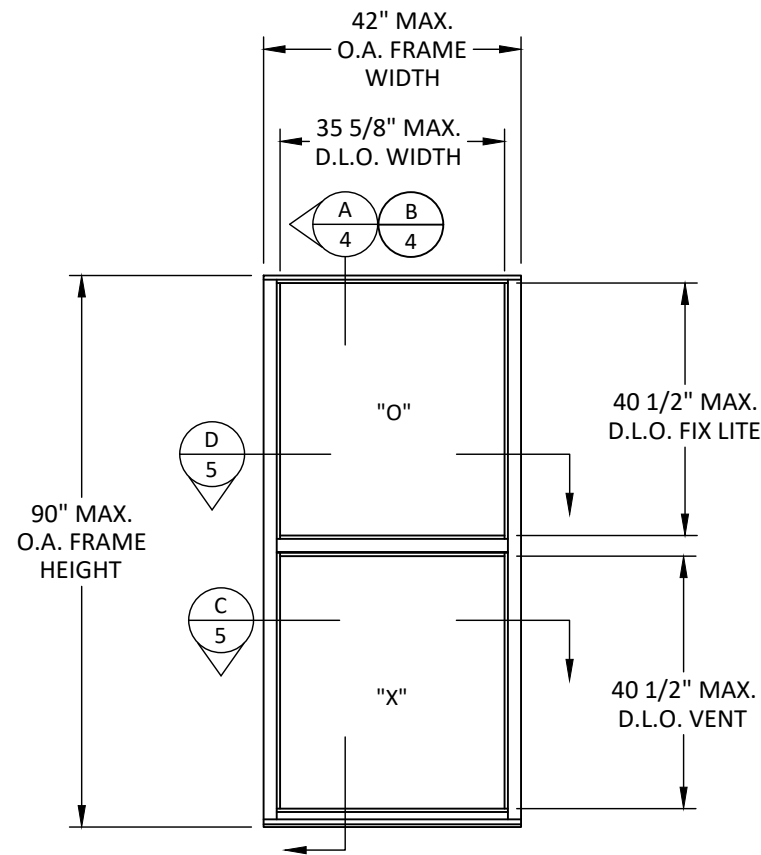
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DWG. #: LRA016

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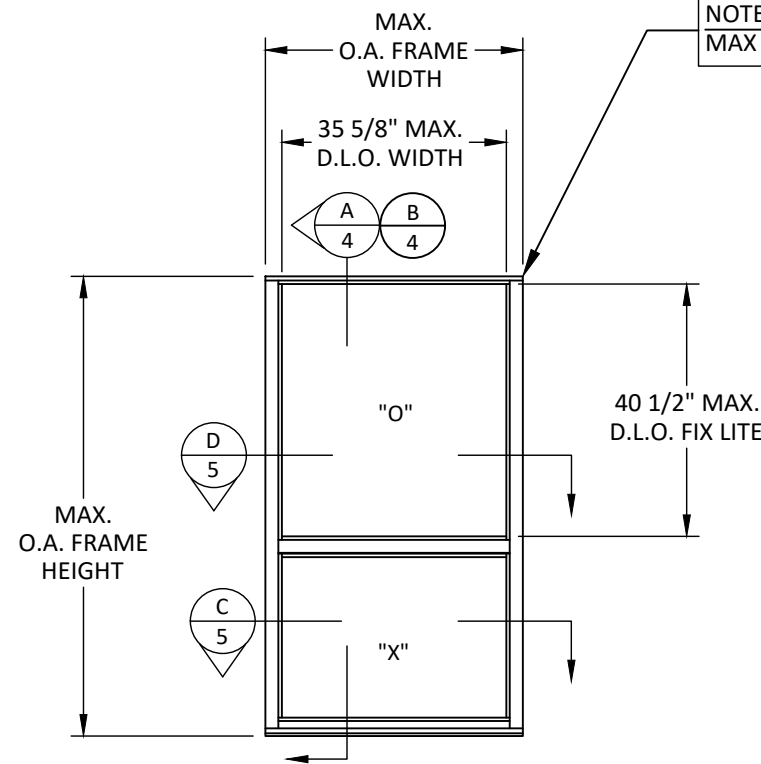
OF 7

1



ELEVATION

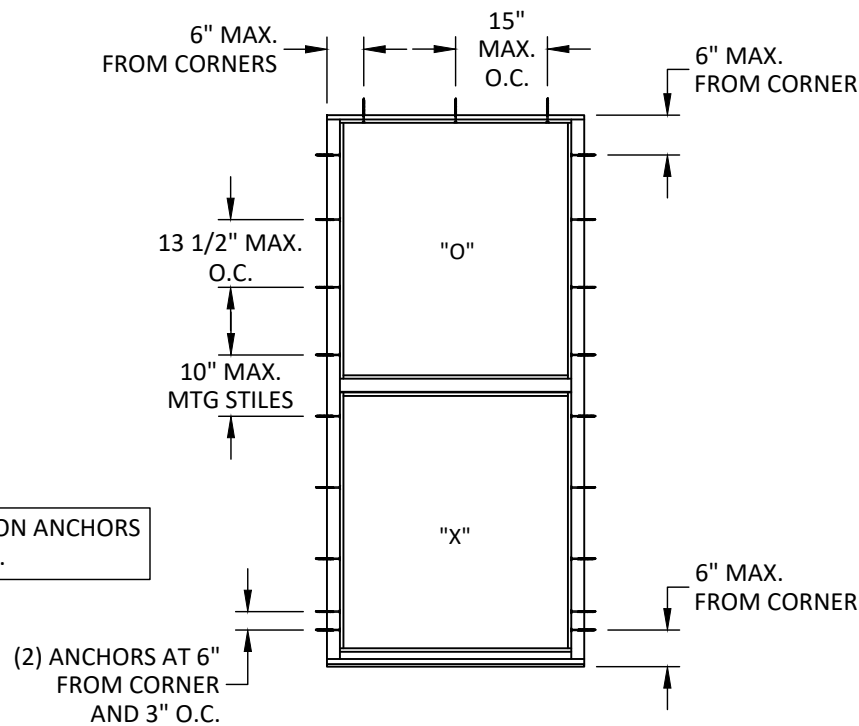
SINGLE HUNG WINDOW - EQUAL SASHES



ELEVATION

SINGLE HUNG WINDOW - NON-EQUAL SASHES

NOTE: UNEQUAL SASHES ARE LIMITED TO A MAX SASH SIZE OF 13 SQUARE FEET.



NOTE: NO INSTALLATION ANCHORS REQUIRED AT THE SILL.

(2) ANCHORS AT 6" FROM CORNER AND 3" O.C.

ANCHOR LAYOUT

SINGLE-THROUGH FRAME - SINGLE HUNG WINDOW

DESIGN PRESSURE TABLE (+/- PSF)		
WINDOW DIMENSIONS		GLAZING DETAIL
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	1/2/3/4
24	54	90.0
30		90.0
36		90.0
42		90.0
48		78.8
54		70.0
60	60	70.0
66		70.0
24		90.0
30		90.0
36		90.0
42		90.0
48		78.8
54		70.0
24	66	90.0
30		90.0
36		90.0
42		90.0
48		78.8
54		70.0
24	72	90.0
30		90.0
36		90.0
42		90.0
48		78.8
54		70.0
24	78	90.0
30		90.0
36		90.0
42		90.0
48		78.8
54		70.0
24	84	90.0
30		90.0
36		90.0
42		90.0
48		78.8
54		70.0
24	90	90.0
30		90.0
36		90.0
42		90.0
48		78.8
54		70.0

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ELEVATIONS, ANCHOR LAYOUT,
& DESIGN PRESSURE TABLE

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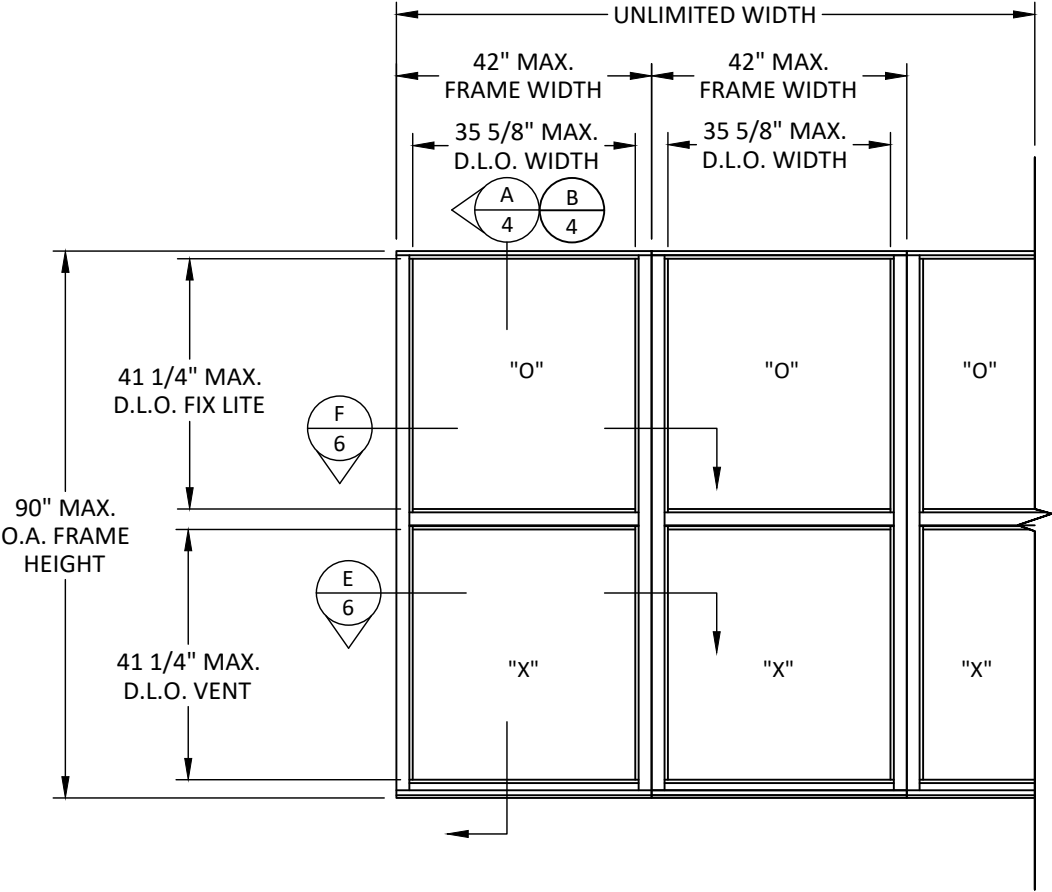
DATE: 10.06.2023

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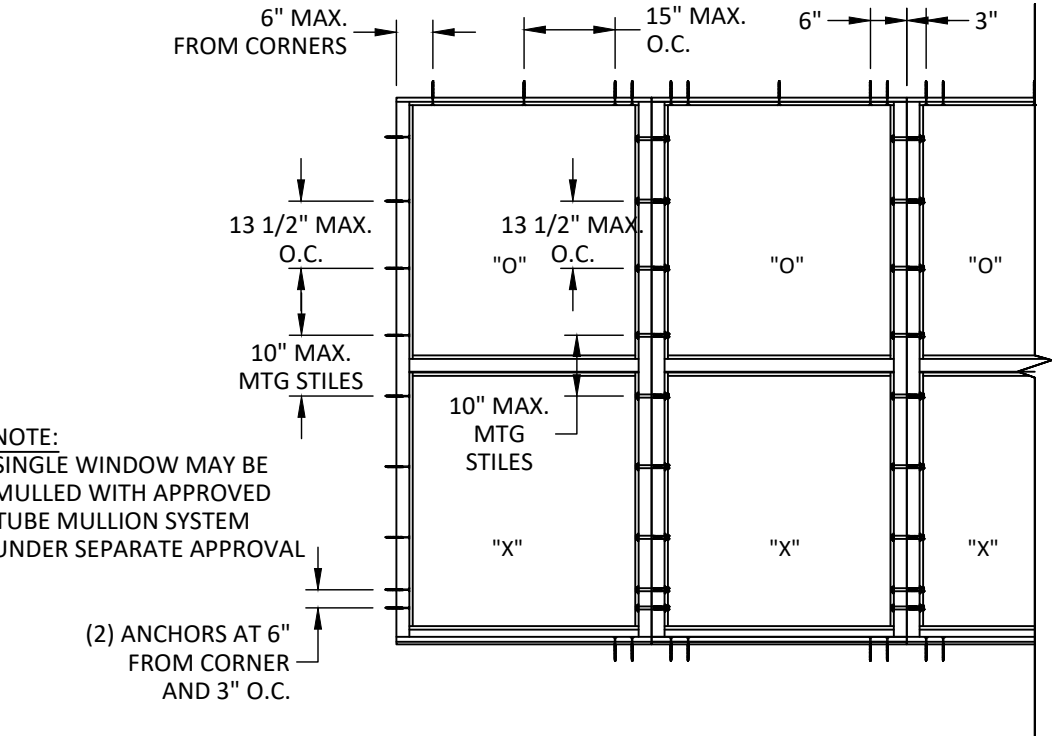
SCALE: NTS

DWG. #: LRA016

SHEET: OF 7



ELEVATION
MULLED - SINGLE HUNG WINDOW



NOTE:
SINGLE WINDOW MAY BE
MULLED WITH APPROVED
TUBE MULLION SYSTEM
UNDER SEPARATE APPROVAL

(2) ANCHORS AT 6"
FROM CORNER
AND 3" O.C.

NOTE: NO INSTALLATION ANCHORS
REQUIRED AT THE SILL EXCEPT AT
MULLION CLUSTER.

ANCHOR LAYOUT
MULLED -THROUGH FRAME - SINGLE HUNG WINDOW

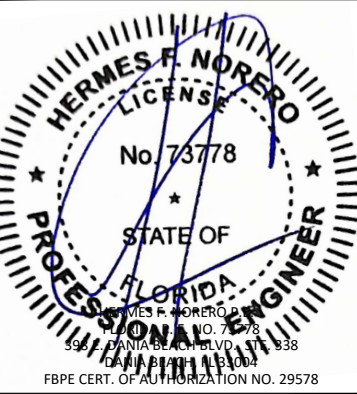
DESIGN PRESSURE TABLE (+/- PSF)			
WINDOW DIMENSIONS		MULLION	
TRIBUTARY WIDTH (IN.)	FRAME HEIGHT (IN.)	LIGHT REINFORCEMENT	HEAVY REINFORCEMENT
24	54	65.0	90.0
30		65.0	90.0
36		65.0	90.0
42		65.0	90.0
48		65.0	90.0
54		65.0	90.0
60		65.0	90.0
66		65.0	90.0
24	60	65.0	90.0
30		65.0	90.0
36		65.0	90.0
42		65.0	90.0
48		65.0	90.0
54		65.0	90.0
60		65.0	90.0
66		65.0	90.0
24	66	65.0	90.0
30		65.0	90.0
36		65.0	90.0
42		65.0	90.0
48		65.0	90.0
54		65.0	90.0
60		65.0	90.0
66		65.0	90.0
24	72	65.0	90.0
30		65.0	90.0
36		65.0	90.0
42		65.0	90.0
48		65.0	90.0
54		65.0	90.0
60		65.0	90.0
66		65.0	90.0
24	78	65.0	90.0
30		65.0	90.0
36		65.0	90.0
42		65.0	90.0
48		65.0	90.0
54		65.0	90.0
60		65.0	90.0
66		65.0	90.0
24	84	65.0	90.0
30		65.0	90.0
36		65.0	90.0
42		65.0	90.0
48		65.0	90.0
54		65.0	90.0
60		65.0	90.0
66		65.0	90.0
24	90	65.0	90.0
30		65.0	90.0
36		65.0	90.0
42		65.0	90.0
48		65.0	90.0
54		65.0	90.0
60		65.0	90.0
66		65.0	90.0

TITLE:
LR-210 ALUMINUM
SINGLE HUNG WINDOW
(HVHZ) (IMPACT)
ELEVATION, ANCHOR LAYOUT,
& DESIGN PRESSURE TABLE

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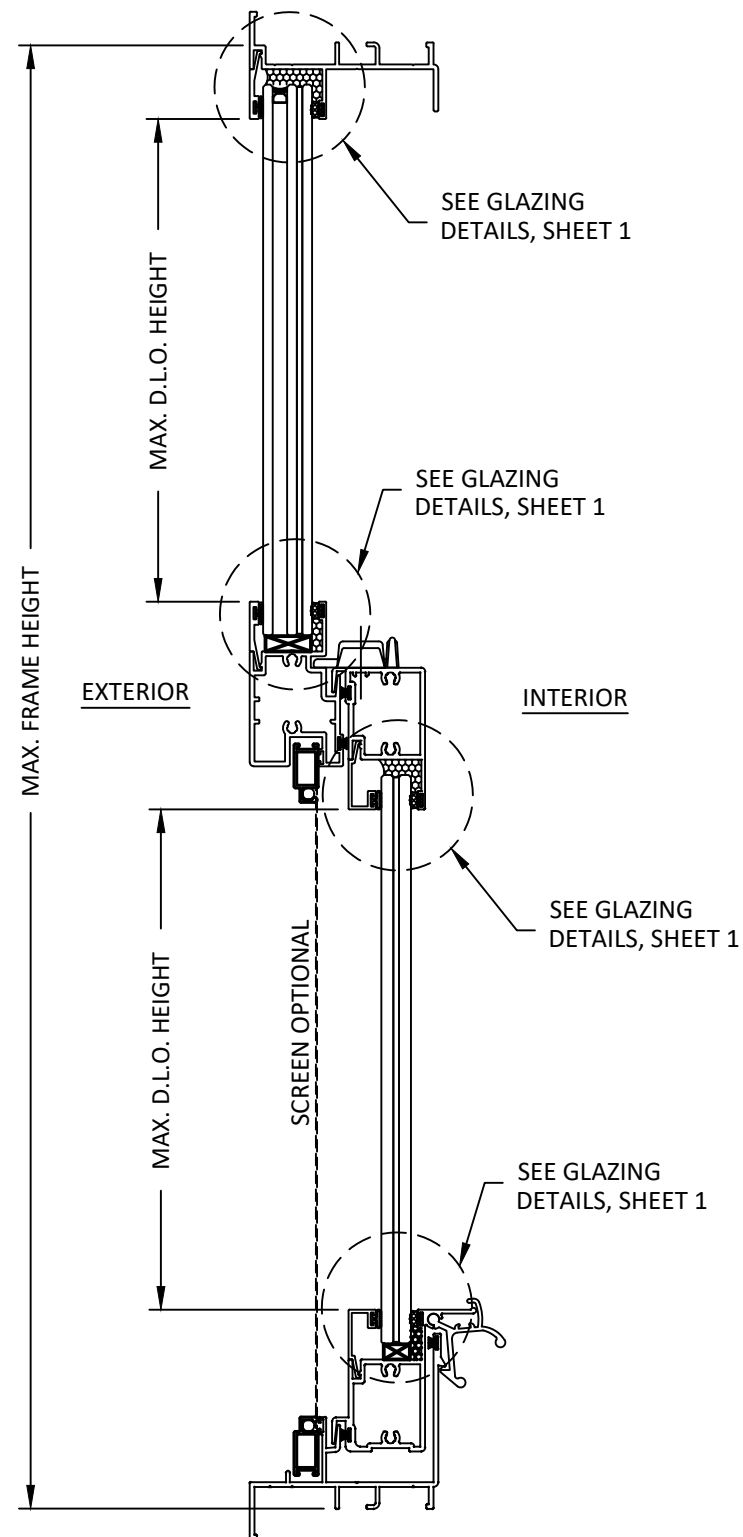
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SH

CHK. BY:
HFN

SCALE: NTS

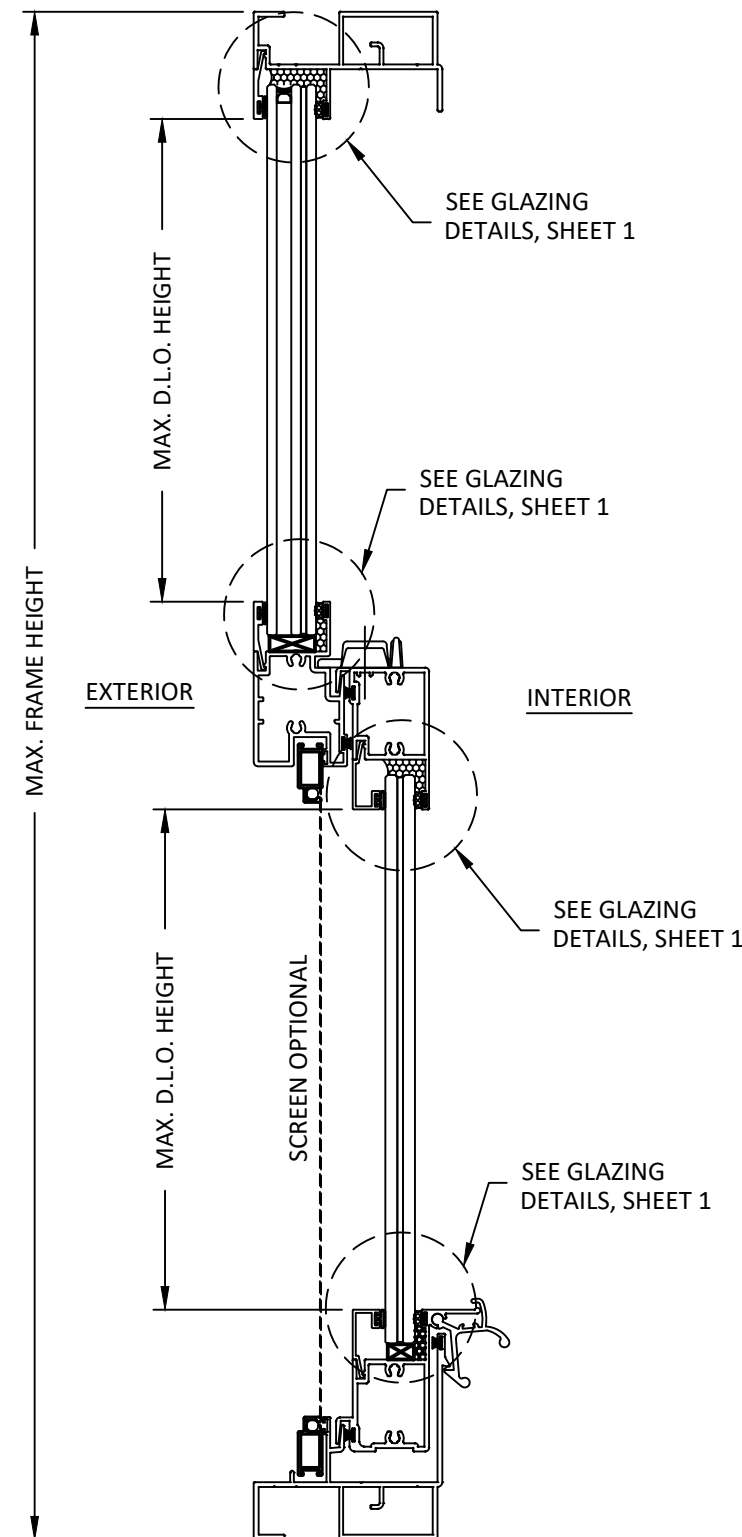
DWG. #: LRA016

SHEET: 3 OF 7



A
4

VERTICAL SECTION
SINGLE & MULLED SINGLE HUNG WINDOW



B
4

VERTICAL SECTION
SINGLE & MULLED SINGLE HUNG WINDOW
ALTERNATE WINDOW FRAME

TITLE: LR-210 ALUMINUM
SINGLE HUNG WINDOW
(HVHZ) (IMPACT)
VERTICAL SECTIONS

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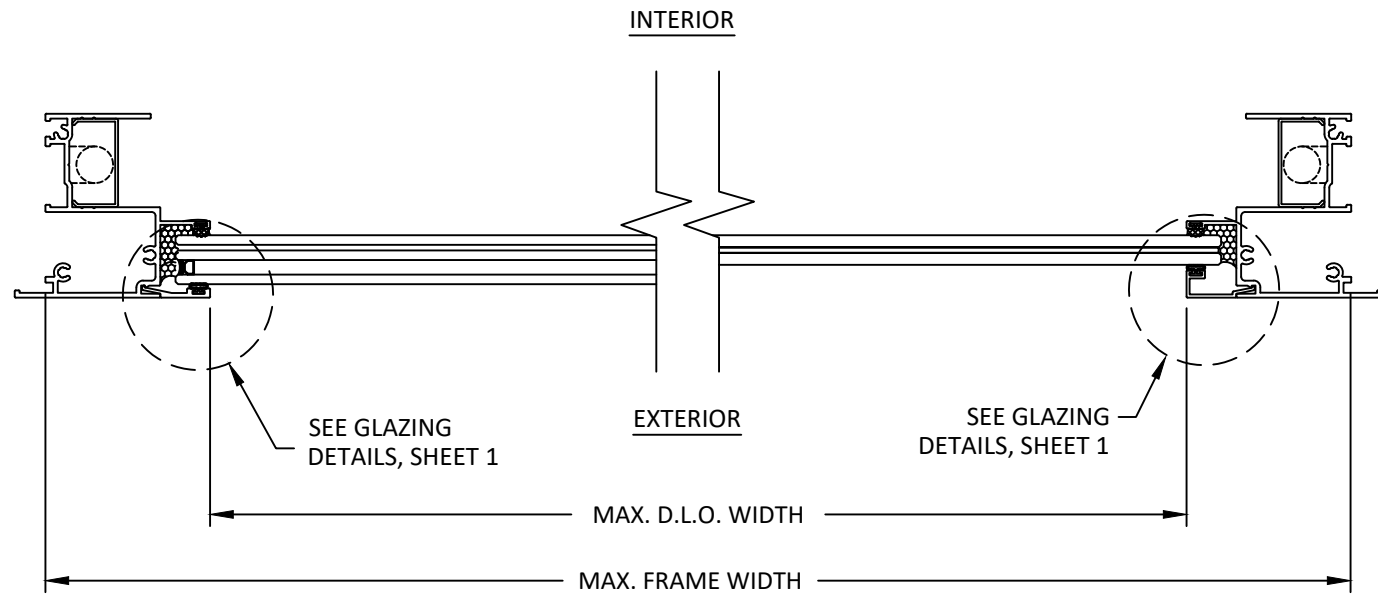
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CHK. BY: HFN

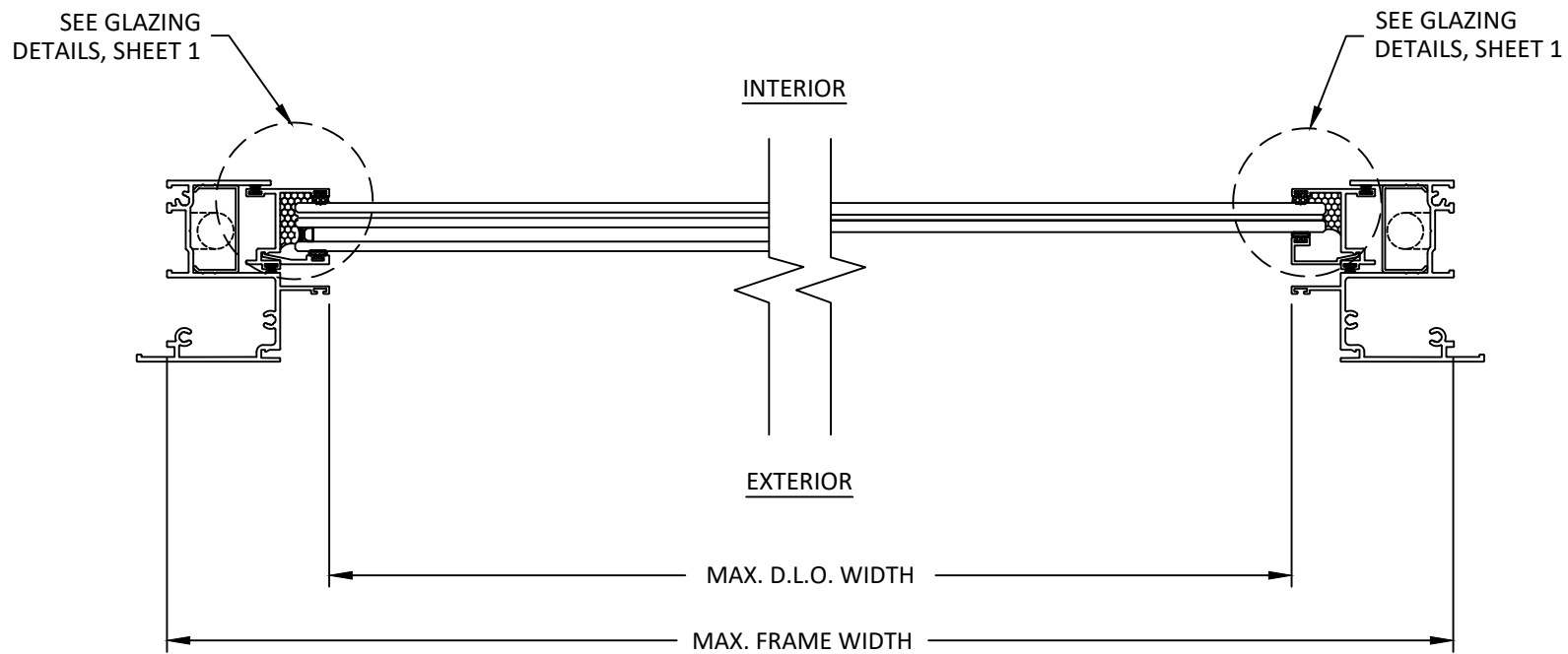
SCALE: NTS

DWG. #: LRA016

SHEET: OF 7



D
5 **HORIZONTAL SECTION**
SINGLE - SINGLE HUNG WINDOW FIX LITE



C
5 **HORIZONTAL SECTION**
SINGLE - SINGLE HUNG WINDOW VENT

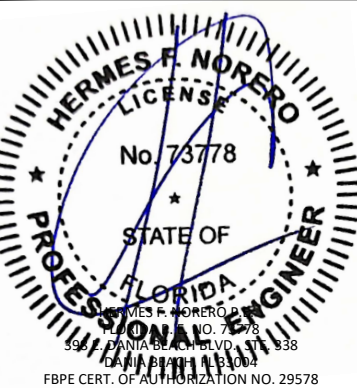
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HORIZONTAL SECTIONS

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SHEET: **5** OF 7

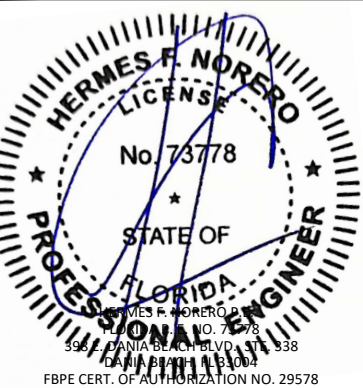
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(HVHZ) (IMPACT)
HORIZONTAL SECTIONS

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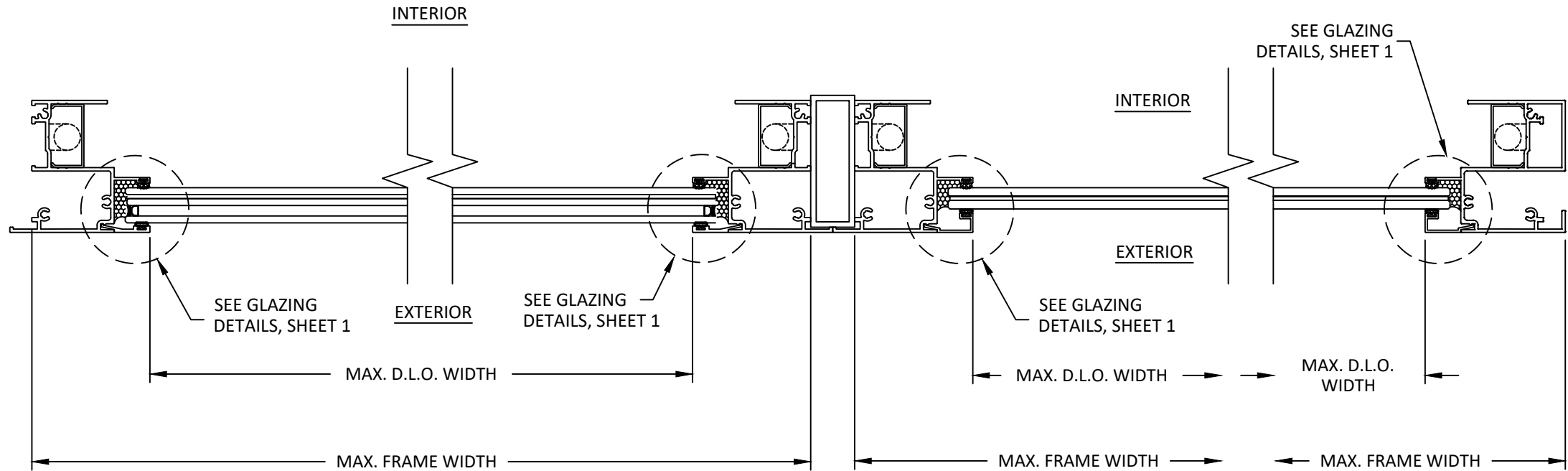
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SCALE: NTS

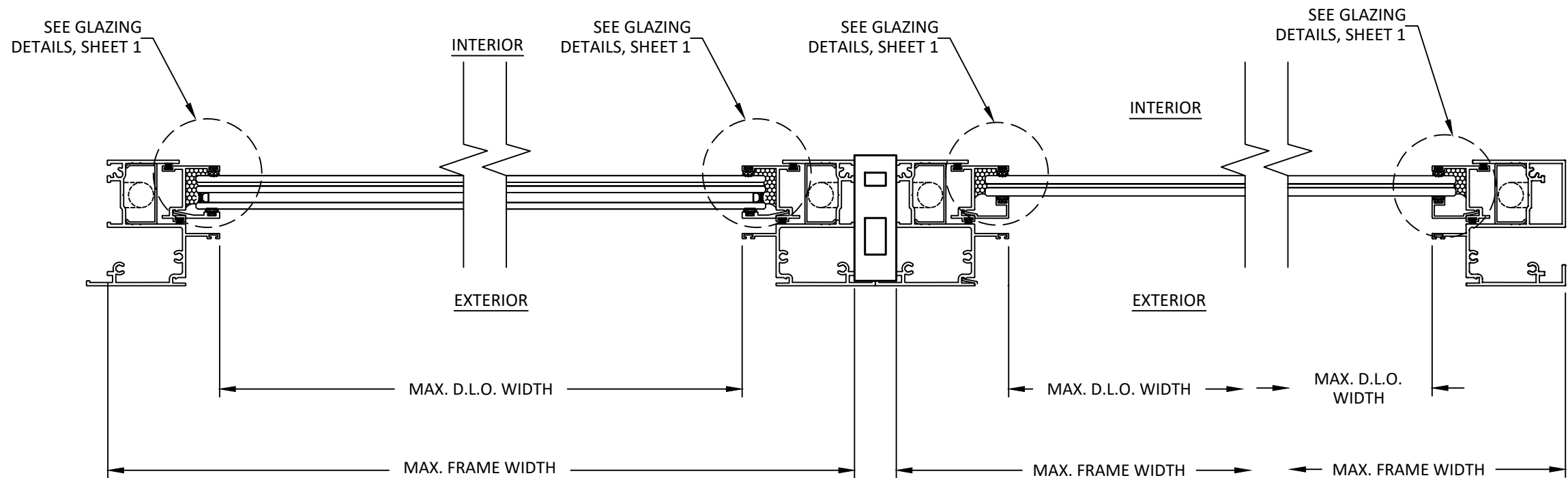
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SHEET: OF 7

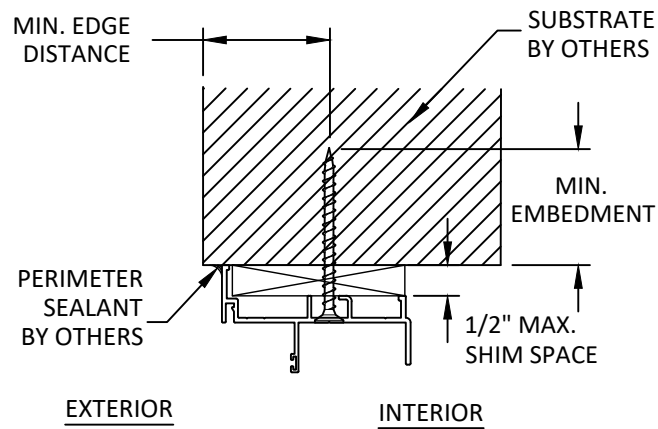
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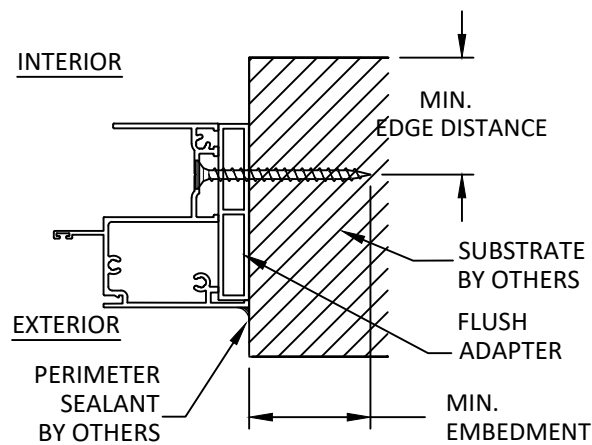
F
6 HORIZONTAL SECTION
LIGHT MULLED - SINGLE HUNG WINDOW FIXED LITE
ALTERNATE WINDOW FRAME SHOWN ON RIGHT



E
6 HORIZONTAL SECTION
HEAVY MULLED - SINGLE HUNG WINDOW VENT
ALTERNATE WINDOW FRAME SHOWN ON RIGHT



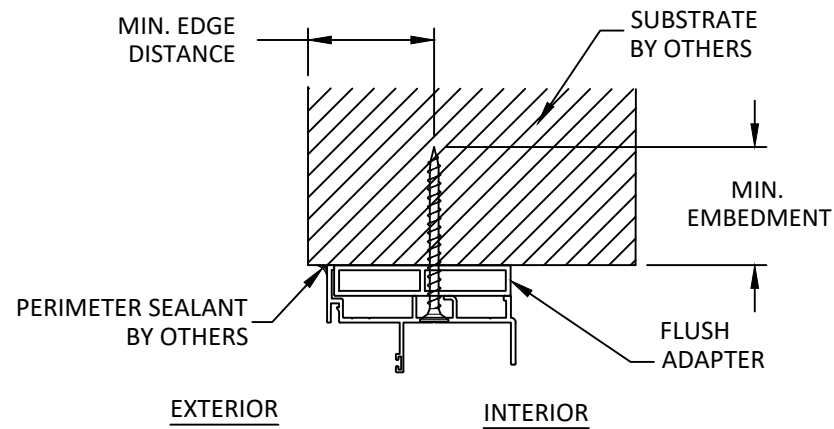
A
7 **ANCHOR DETAIL**
THROUGH FRAME (HEAD)



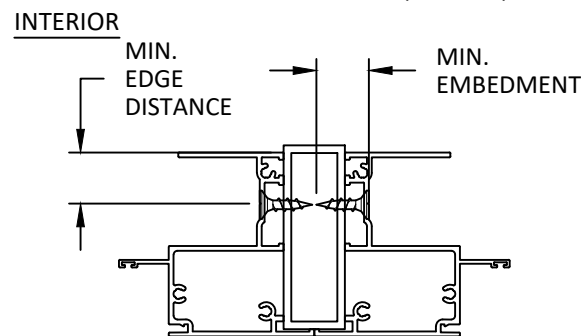
D
7 **ANCHOR DETAIL**
THROUGH FRAME (JAMB)
W/ FLUSH ADAPTOR
ALTERNATE WINDOW FRAME (SIMILAR)

INSTALLATION NOTES:

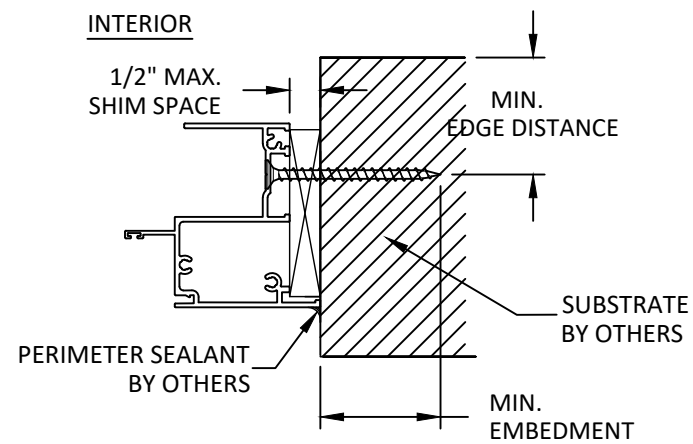
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- 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.
- 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.
- 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.
- FOR INSTALLATION ANCHORS ABOVE THE MEETING RAIL IN THE INTERIOR JAMB TRACK, USE FLAT HEAD ANCHORS.



B
7 **ANCHOR DETAIL**
THROUGH FRAME (HEAD)
W/ FLUSH ADAPTOR
ALTERNATE WINDOW FRAME (SIMILAR)



E
7 **ANCHOR DETAIL**
THROUGH FRAME (JAMB MULLION)
LIGHT MULLION SHOWN, HEAVY MULLION SIMILAR



C
7 **ANCHOR DETAIL**
THROUGH FRAME (JAMB)

ANCHOR SCHEDULE					
METHOD	SUBSTRATE TYPE	SUBSTRATE	ANCHOR TYPE	MIN EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	A	WOOD: MIN. SG = 0.55	5/16" DEWALT ULTRACON	1.50"	1.25"
	B	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM .125" MIN, 6063-T5 MIN	5/16" SELF-DRILLING SCREW GR. 5	3 THREADS MIN. PENETRATION BEYOND METAL	0.75"
	C	CONCRETE: f'c=3000PSI	5/16" DEWALT ULTRACON	1.75"	2.50"
	D	MASONRY: CMU per ASTM C90 MIN. 2000 PSI		1.75"	3.125"
MULLIONS	E	ALUMINUM 6063-T6	1 / 4" DEWALT DRILL-FLEX	3 THREADS MIN. PENETRATION BEYOND METAL	0.75"

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