

FRONTLINE BUILDING PRODUCT

500 SERIES OUTSWING DOOR (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

1.

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/A440-17
 - TAS 202-94
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.

INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1.000 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.
5.

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.
6.

APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7.

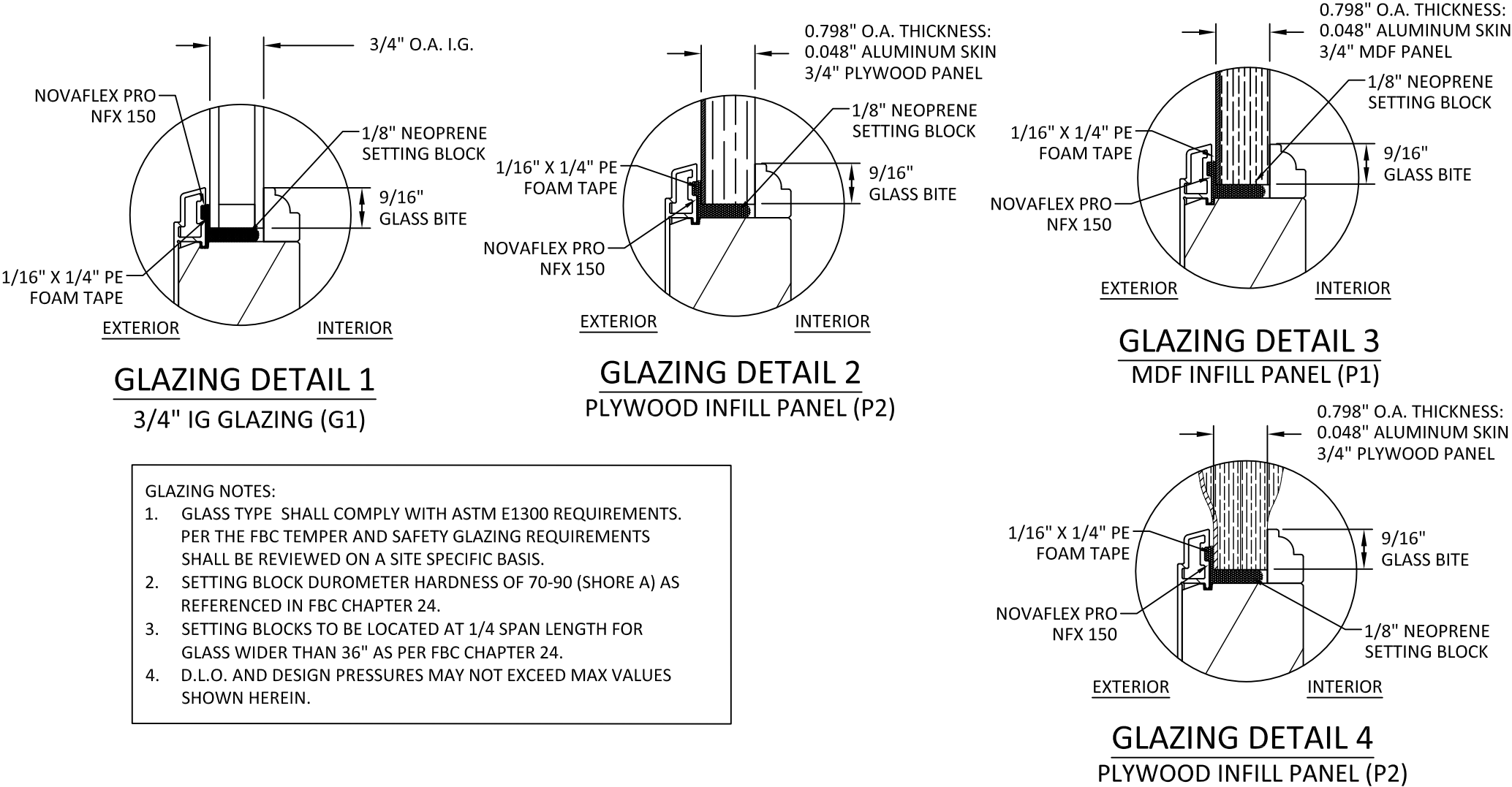
DOOR FRAME MATERIAL: ALUMINUM (6063-T5) CLAD EXTERIOR OVER WOOD CORE
8.

GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

DESIGN RATING					
OVERALL SIZE			HARDWARE	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT	CONFIG.			
76"	96"	XX	VON DUPRIN HH9954 MULLION + 98/99 SVR*	+/- 55 PSF	LMI/SMI
38"	96"	X			
76"	96"	OX			
111-1/8"	96"	OXX			

*NOTE: SEE HARDWARE NOTE ON SHEET 2

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9	PANEL INFILL COMBINATIONS



FRONTLINE BUILDING PRODUCTS
610 JENSEN DRIVE
MEDFORD, WI 54451
PH: (715) 748-2288

TITLE:

500 SERIES OUTSWING DOOR
(NON-HVHZ) (NON-IMPACT)

GENERAL NOTES AND
GLAZING DETAILS

PREPARED BY:

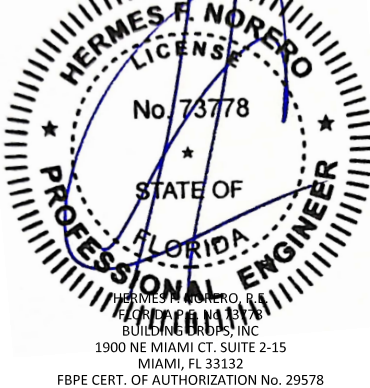
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 395-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.10.09 14:12:02 -0400



FL #:

FL47714

DATE:

07.21.2025

DWG. BY:

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CHK. BY:

HFN

SCALE:

NTS

DWG. #:

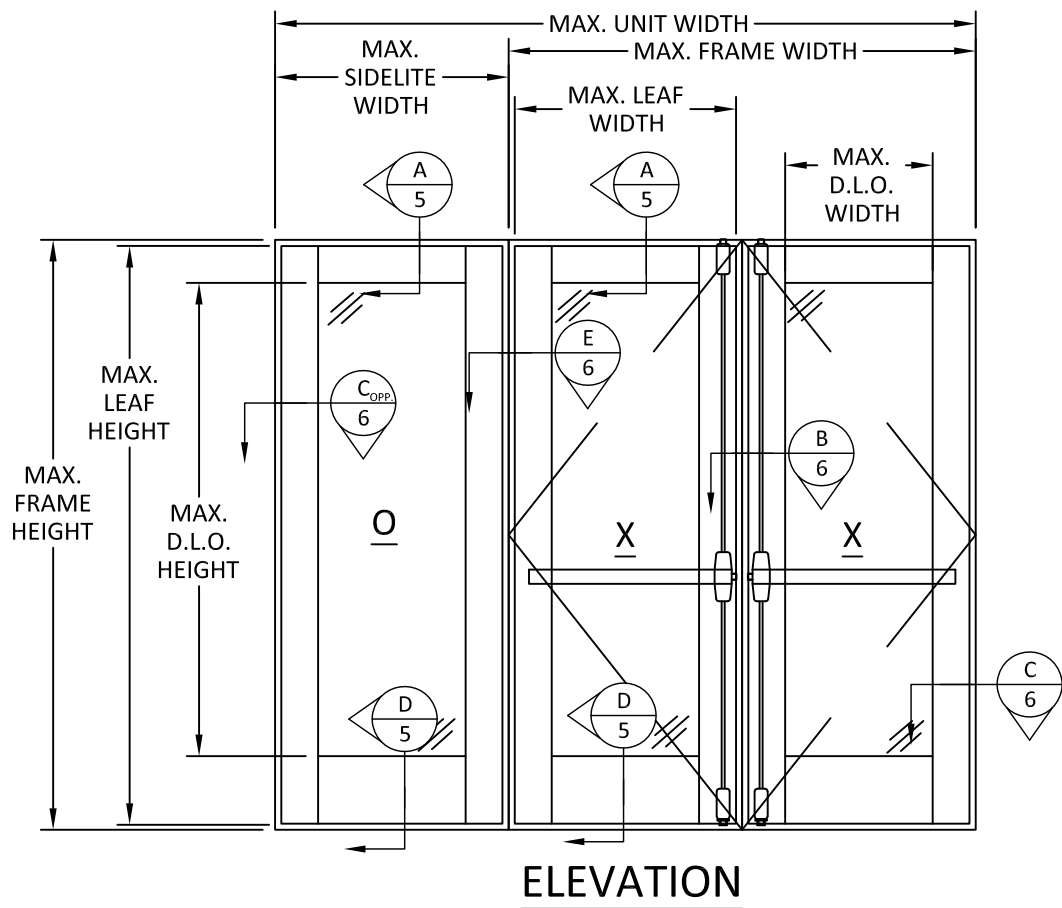
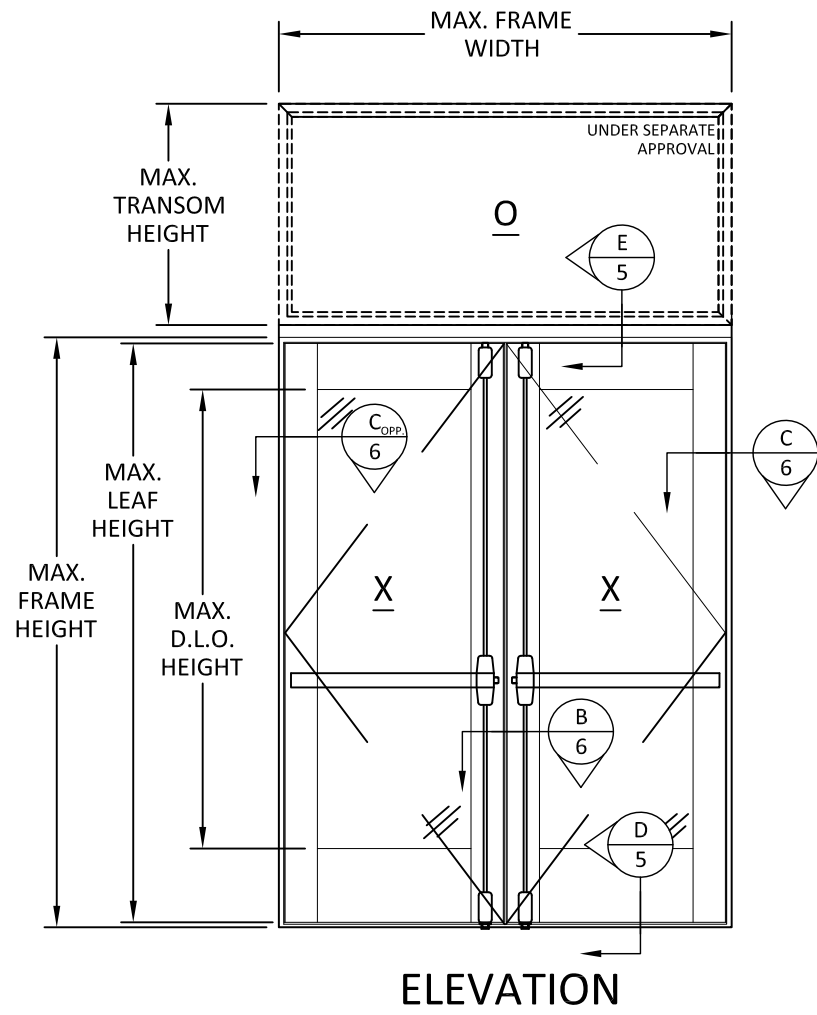
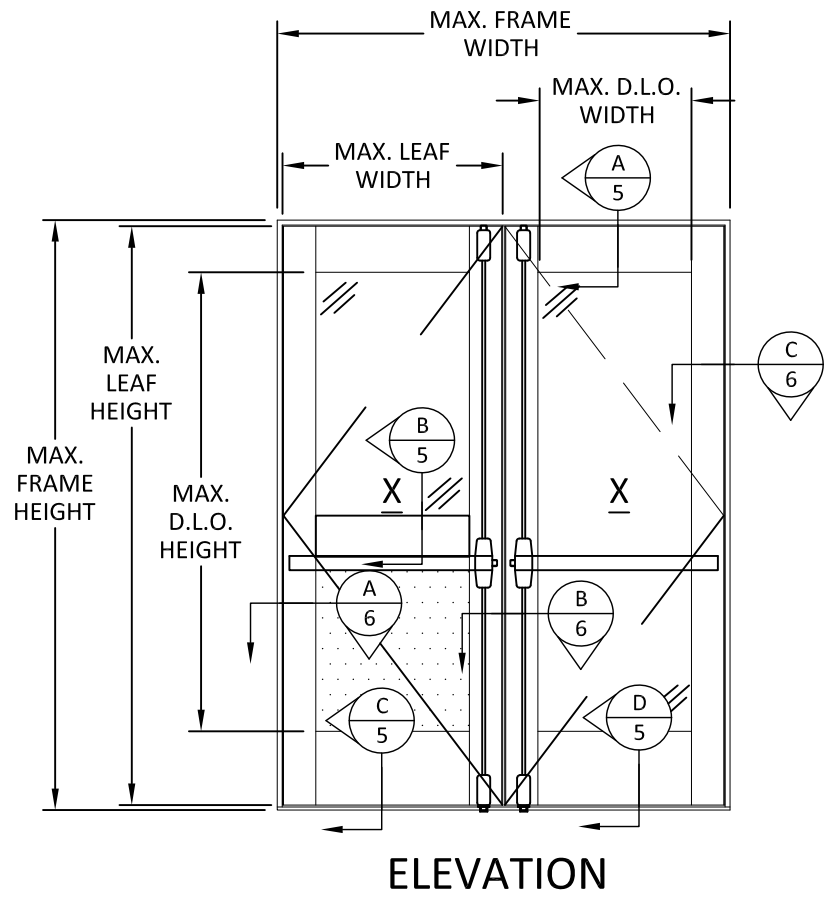
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SHEET:

1

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DOOR LEGEND

LEGEND NOTE:

MAXIMUM HEIGHTS:

- STILE : FH - 1.8125"
- D.L.O.: FH - (20.1875" - MID-RAIL)

MAXIMUM WIDTHS:

- STILE: (FW/2) - 1.1875"
- D.L.O.: (FW/2) - 10.71875"

- FH = FRAME HEIGHT
- FW = FRAME WIDTH

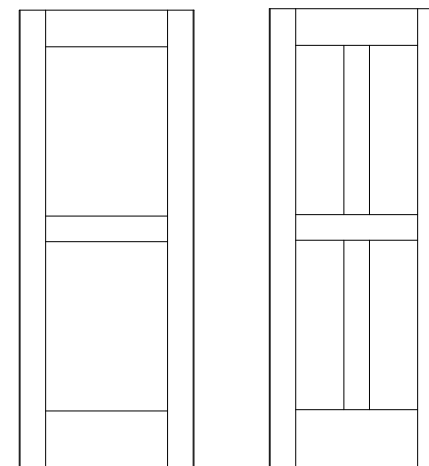
TRANSOM UNIT UNDER SEPARATE PRODUCT APPROVAL.

- MAXIMUM TRANSOM SPAN: 76"
- MAXIMUM TRANSOM HEIGHT: 36"

- SINGLE DOOR ELEVATIONS ARE SIMILAR, (FW/2).

HARDWARE NOTE:

HH9954 MULLION & 98/99 SVR SHOWN. 4954 MULLION, 98/99 RIM EXIT DEVICE AND SHOOT BOLTS QUALIFIED.



NOTE: SEE SHEET 9, FOR ALL POSSIBLE PANEL INFILL/GLAZING COMBINATIONS



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ELEVATIONS

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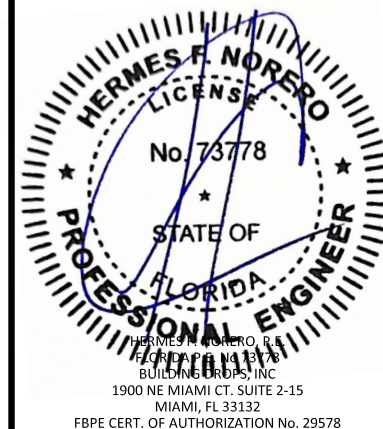
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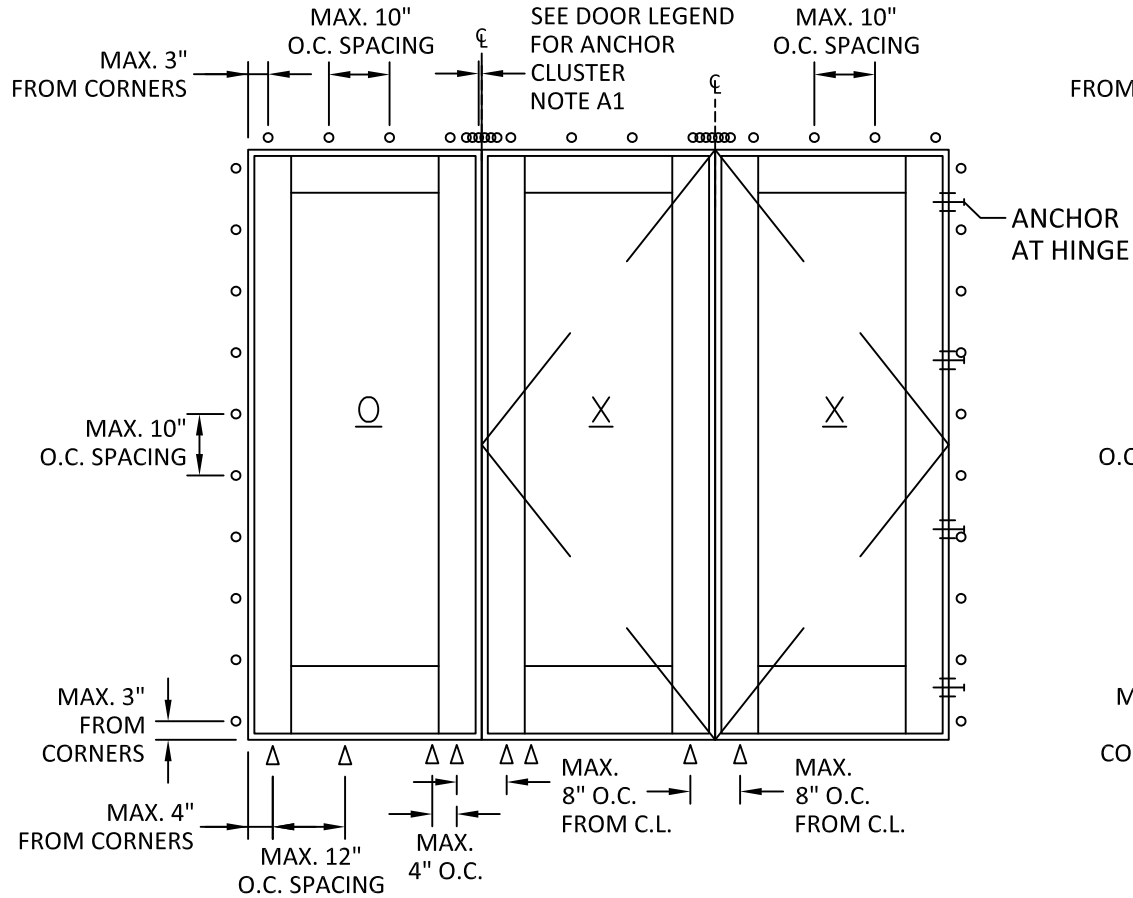
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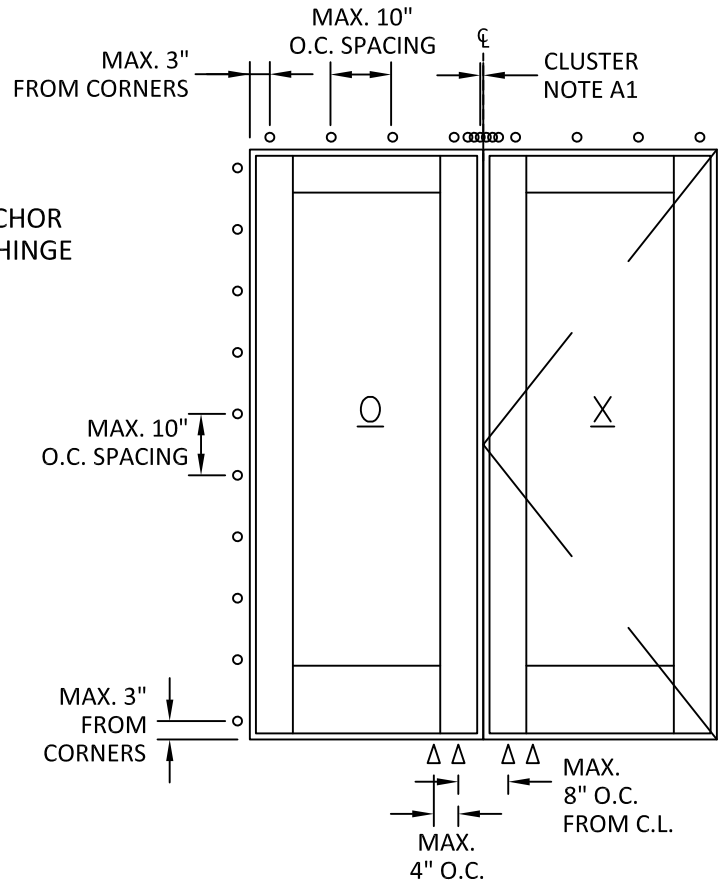
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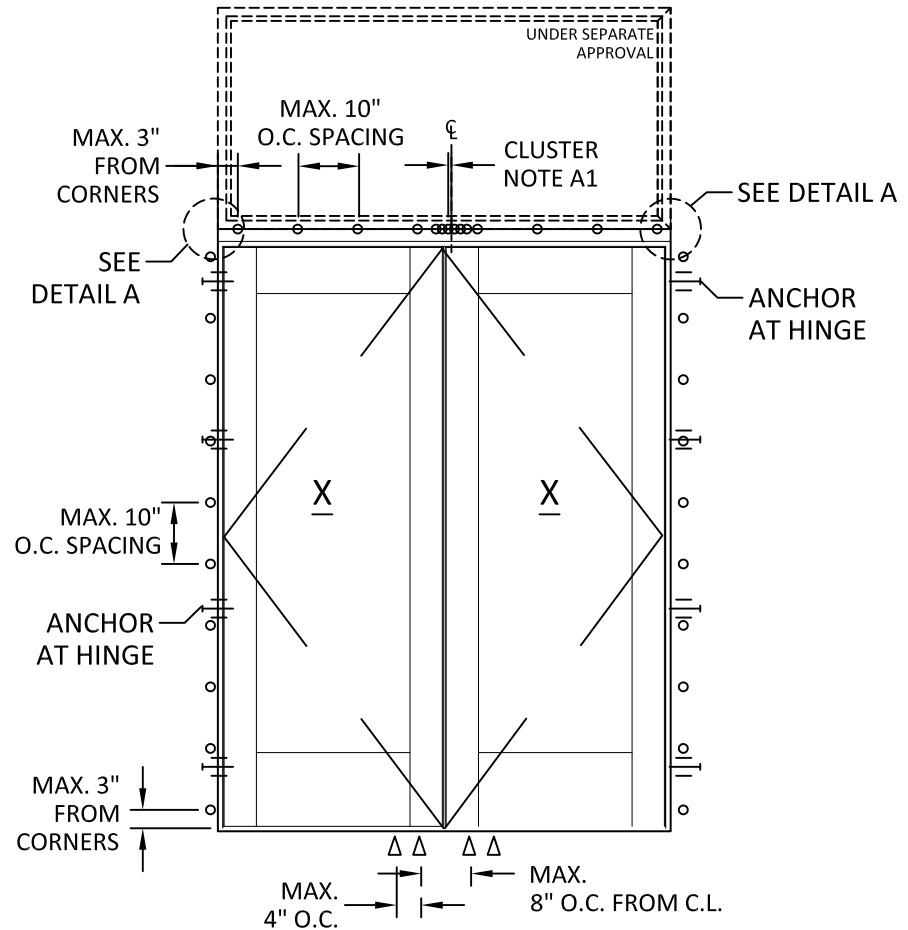
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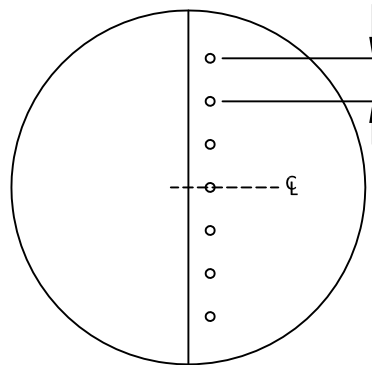
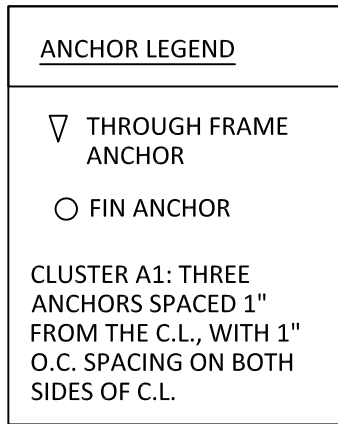
ANCHOR LAYOUT



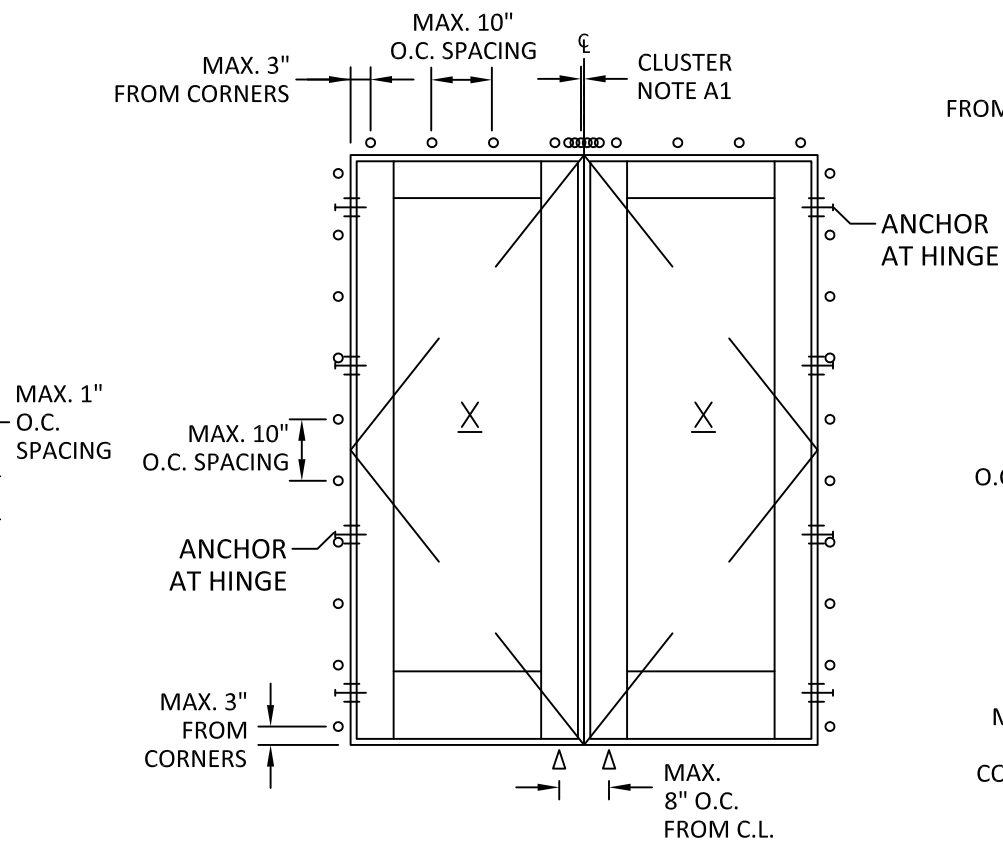
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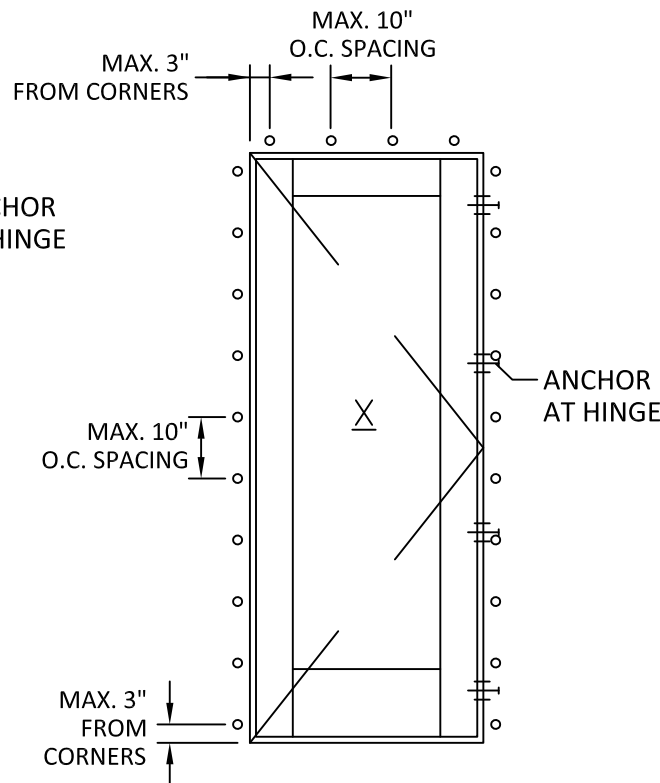
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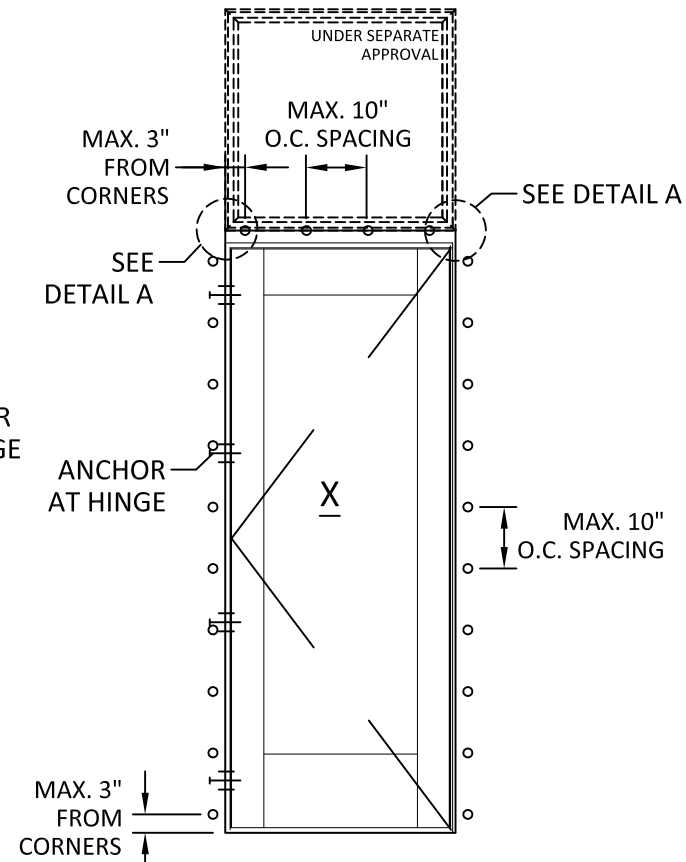
DETAIL A



ANCHOR LAYOUT



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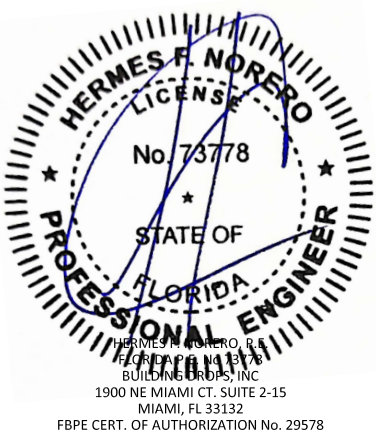
ANCHOR LAYOUTS

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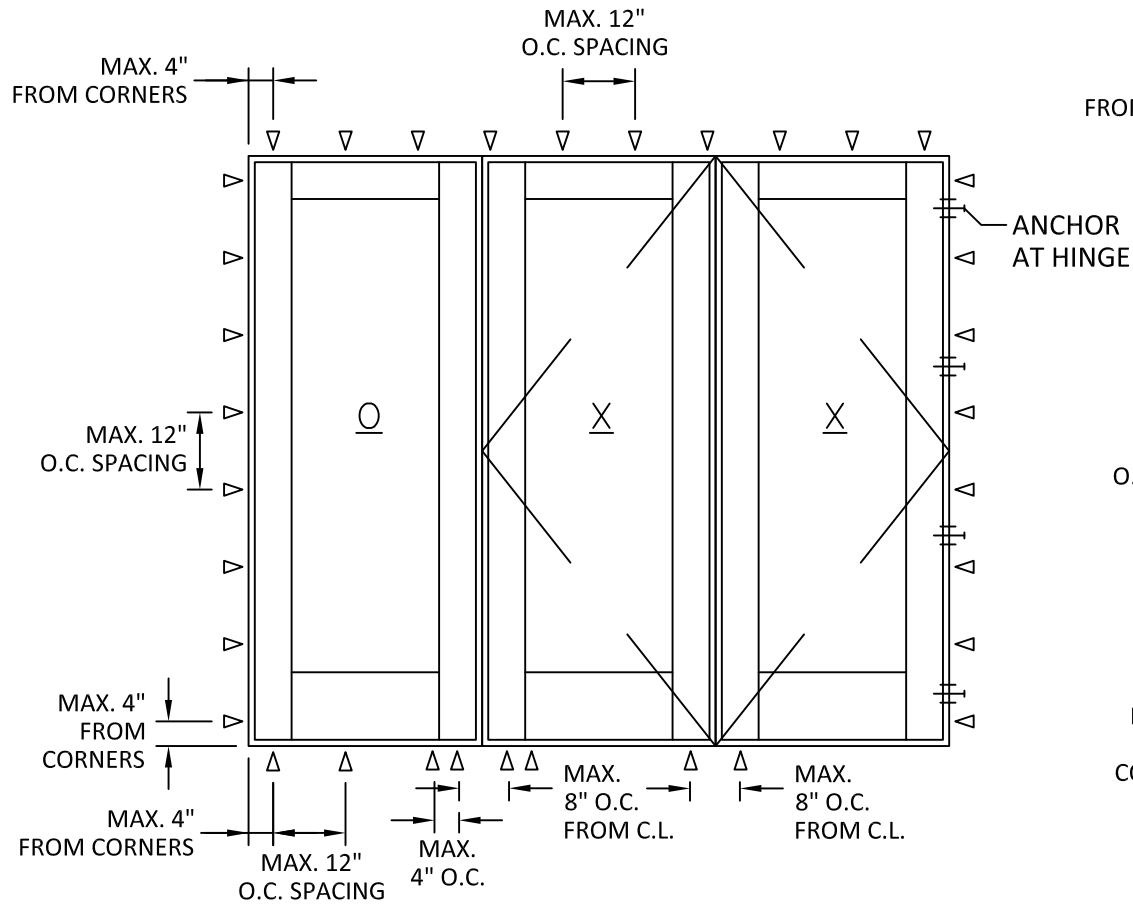
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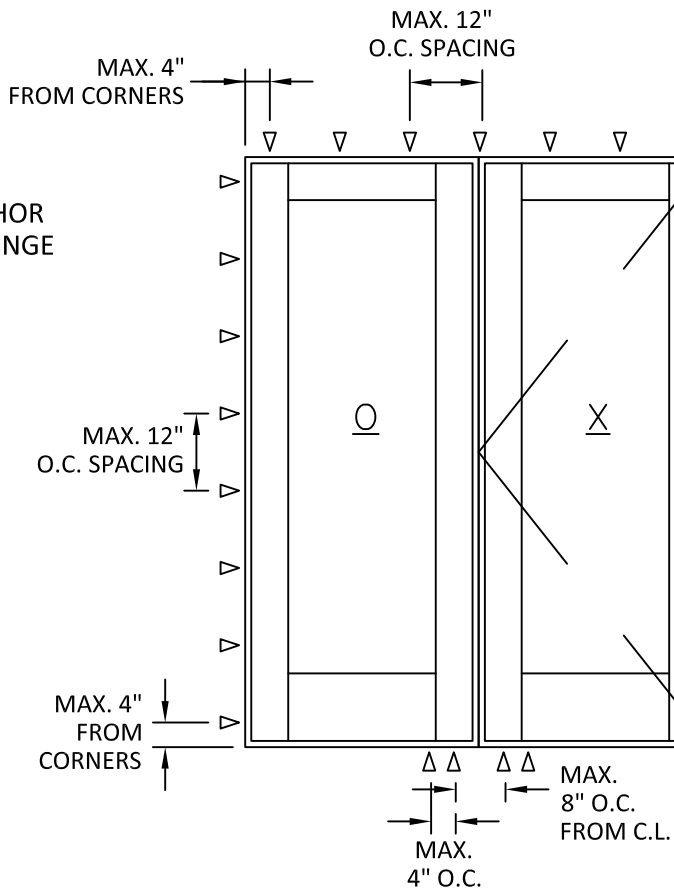


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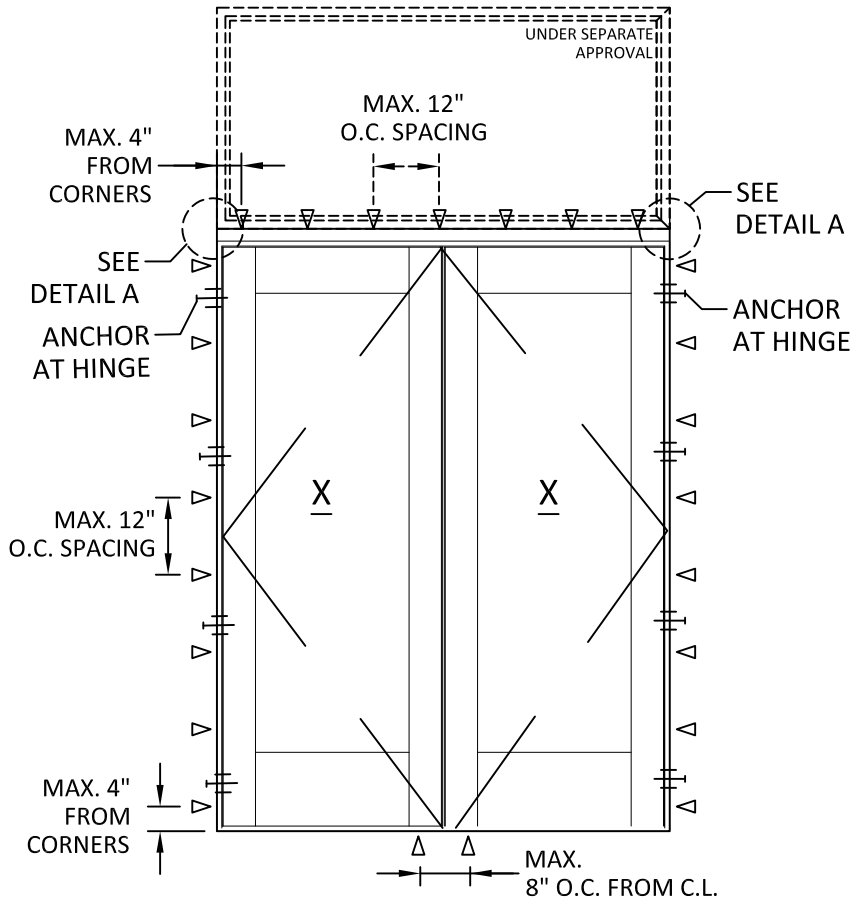
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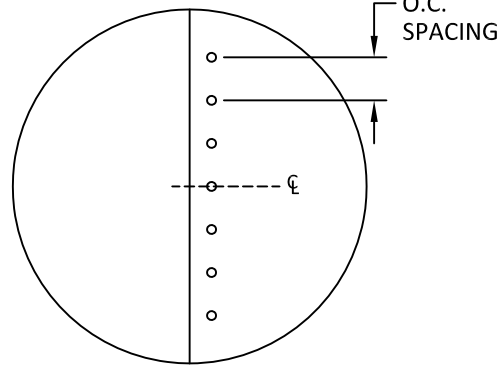
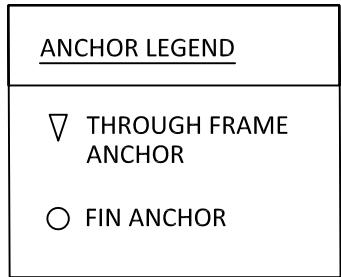
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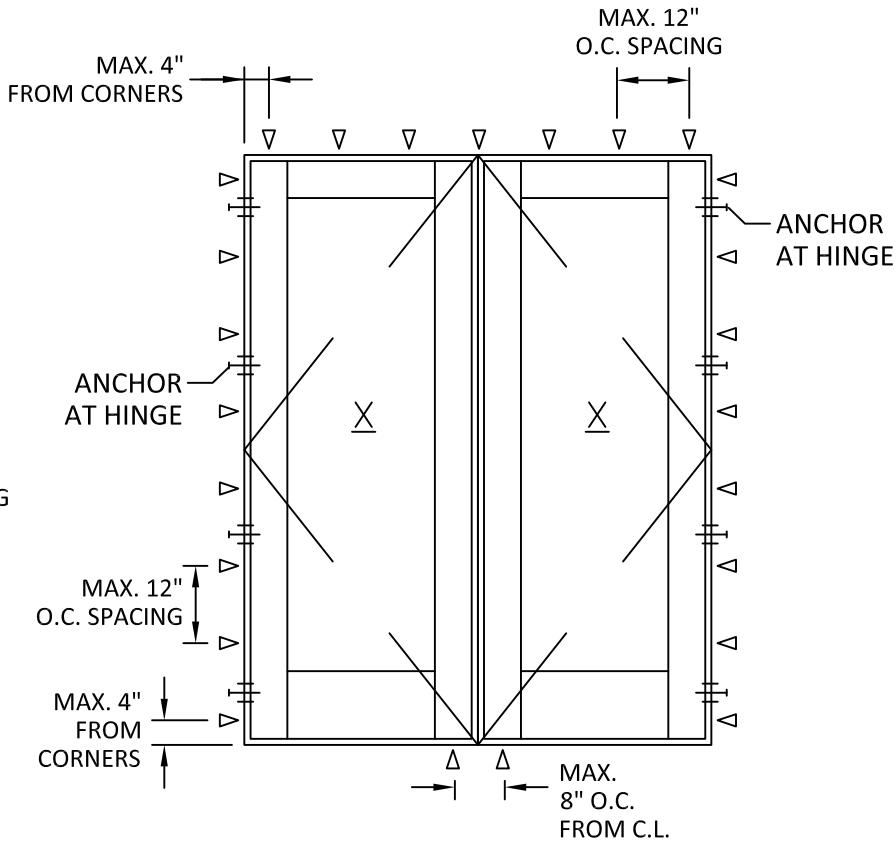
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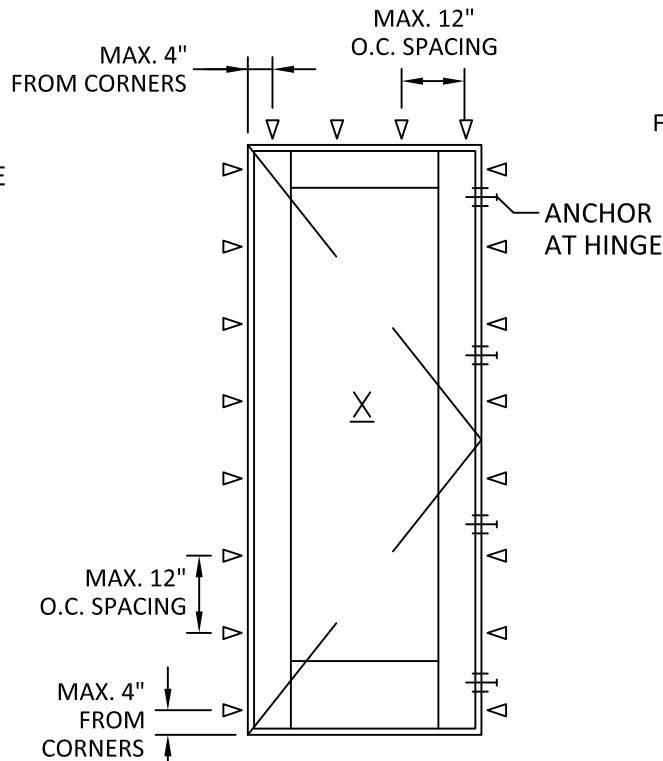
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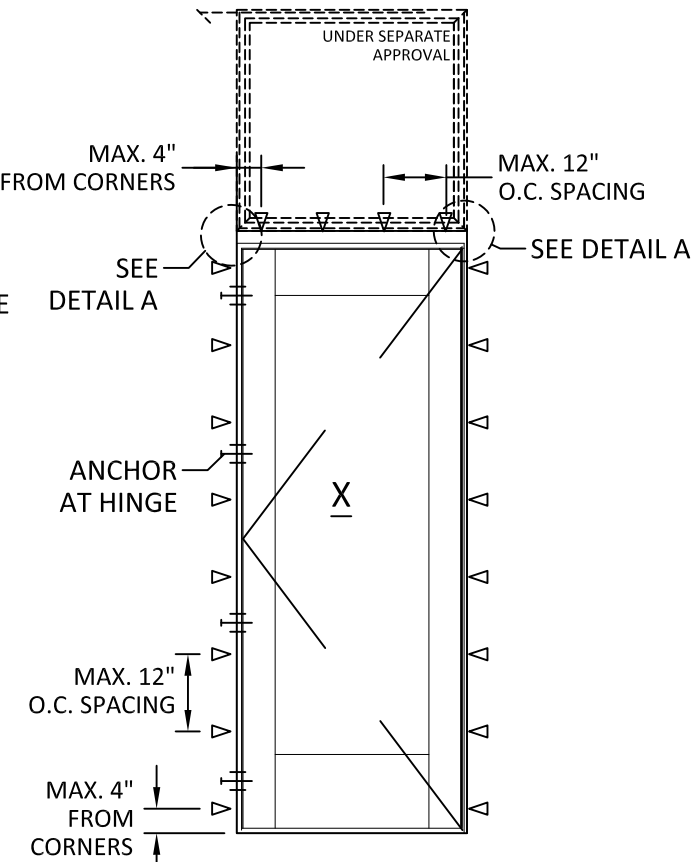
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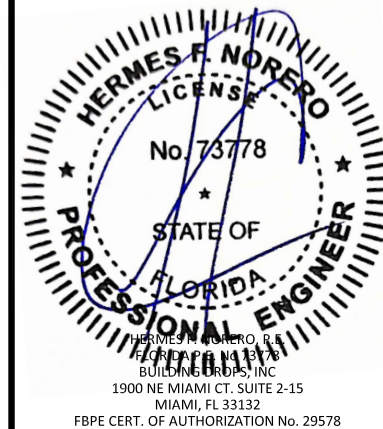
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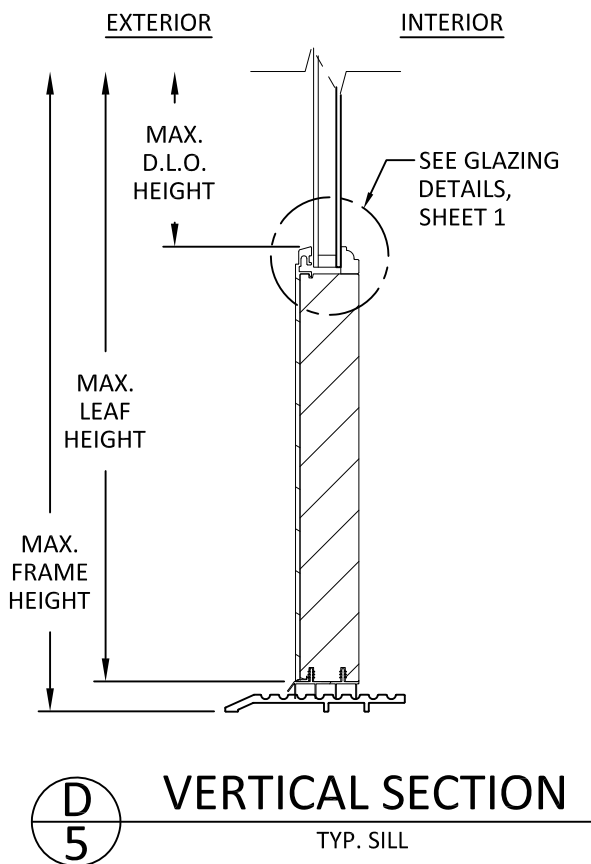
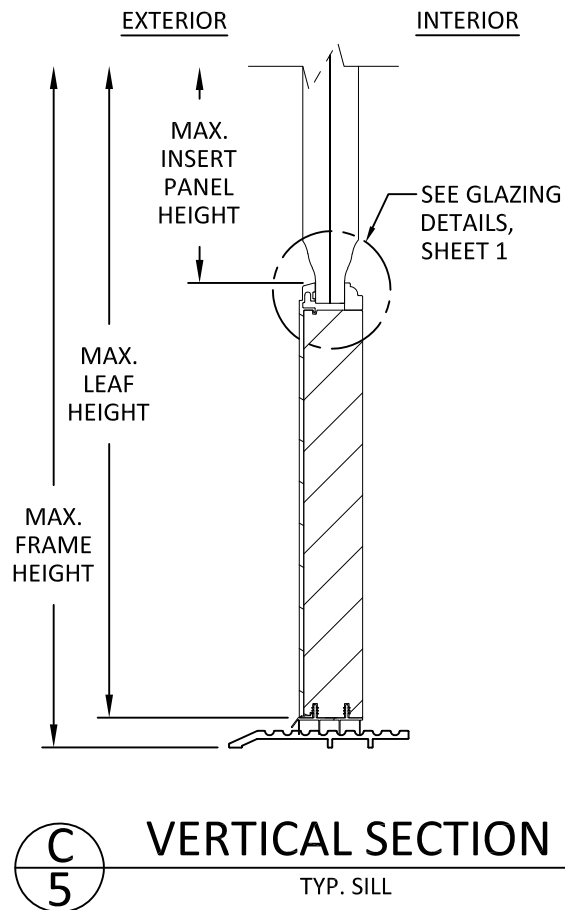
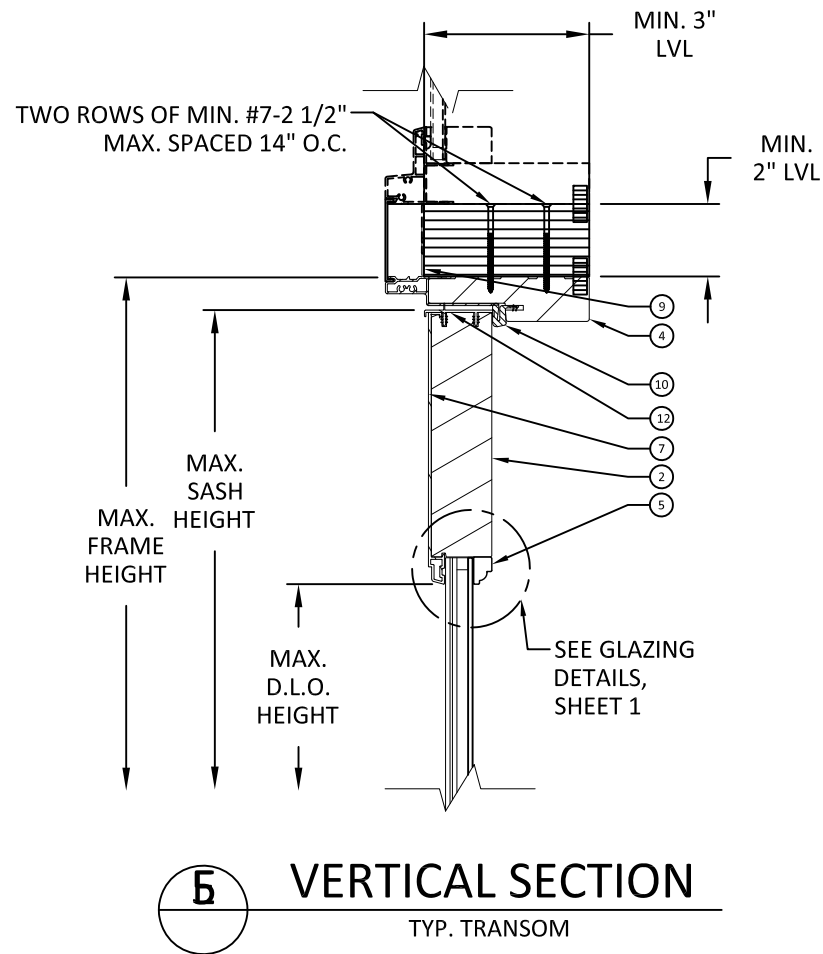
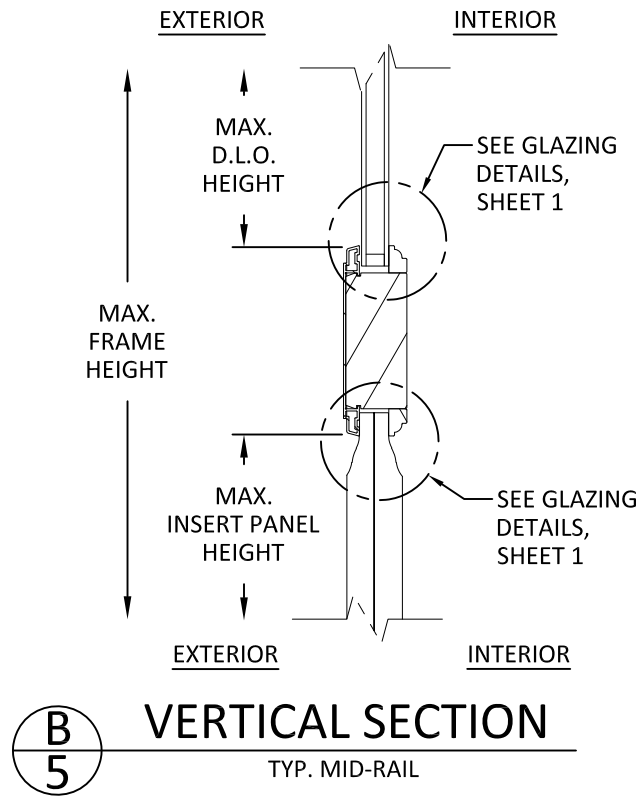
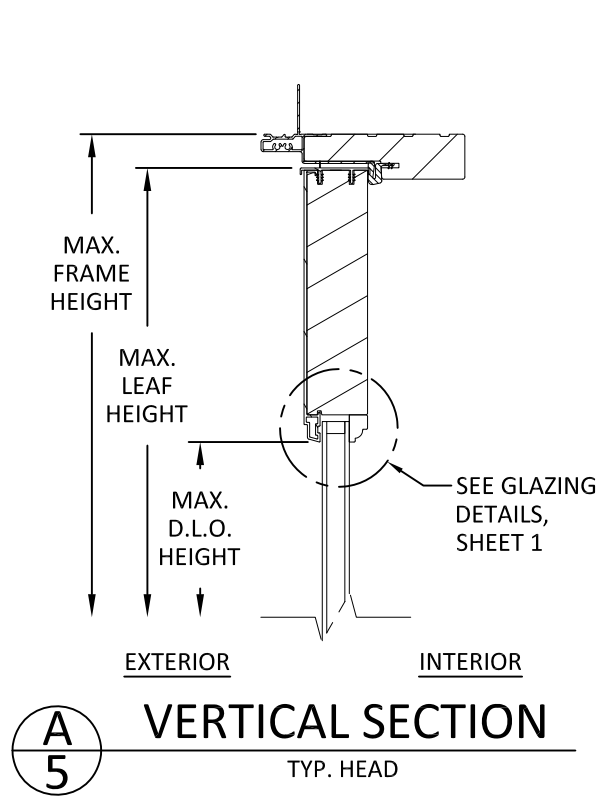
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VERTICAL SECTIONS

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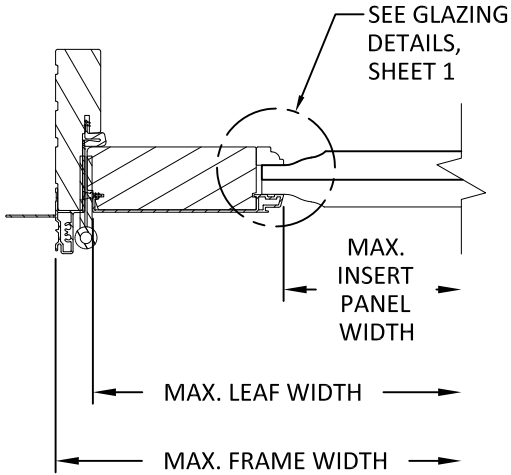
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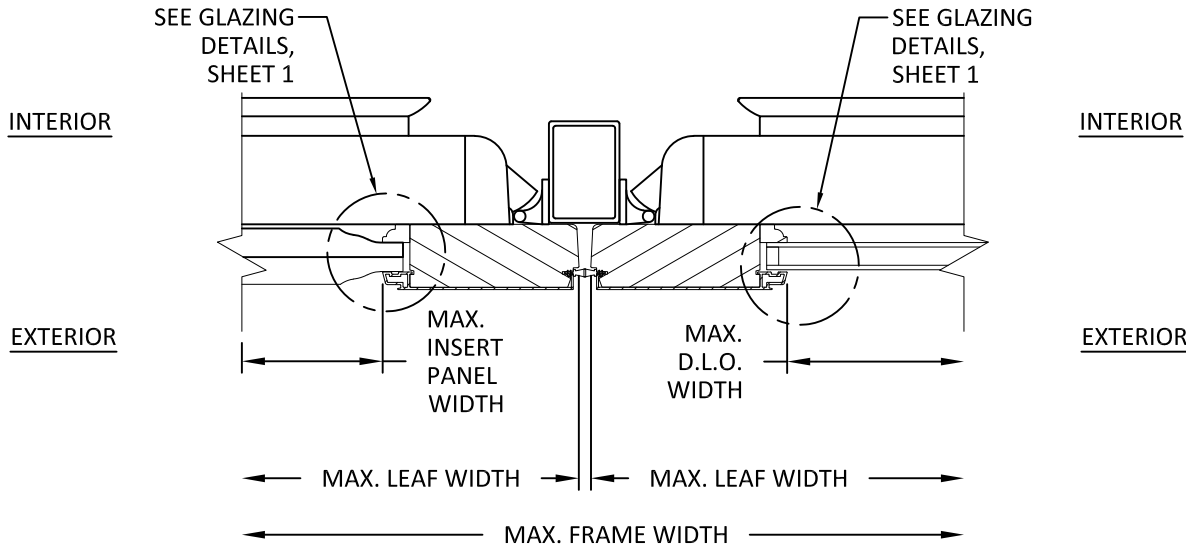
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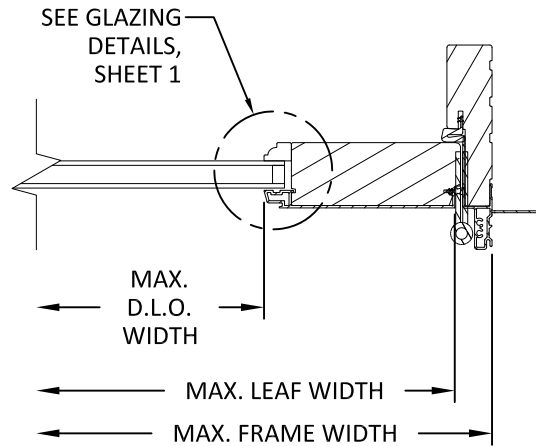
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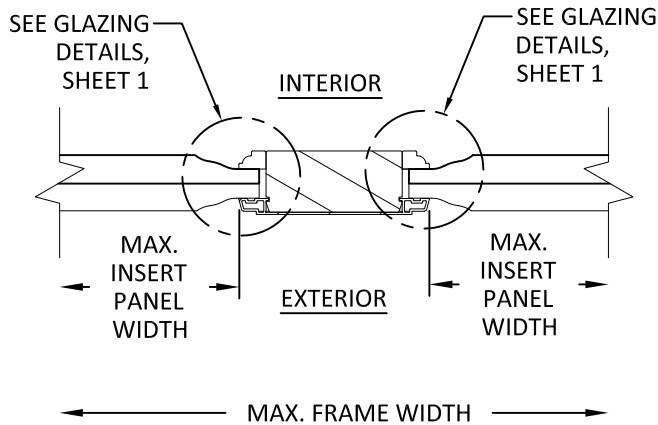
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6 TYP. JAMB



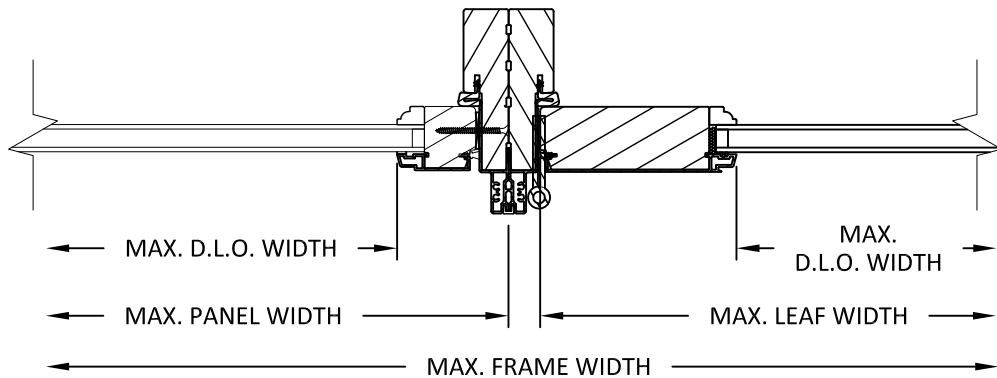
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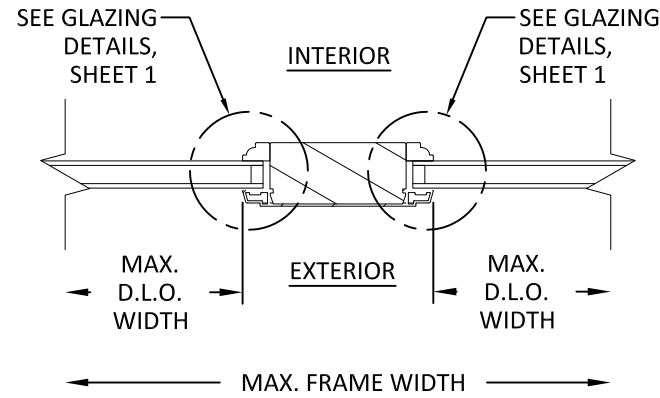
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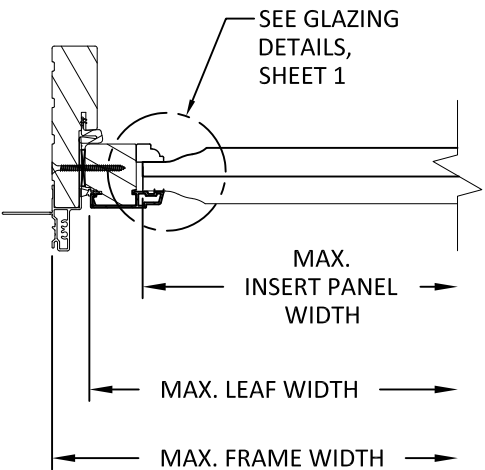
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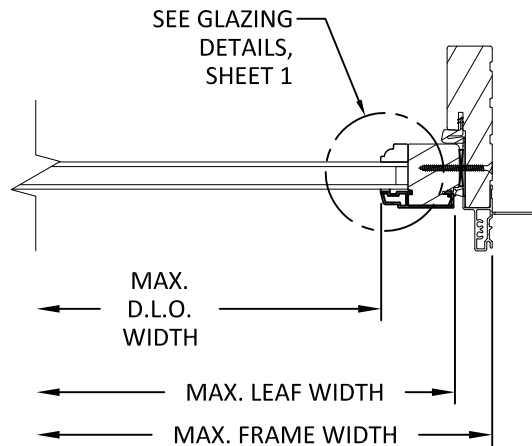
E HORIZONTAL SECTION
6 TYP. MULLION JAMB TO JAMB



F HORIZONTAL SECTION
6 TYP. JAMB



G HORIZONTAL SECTION
6 TYP. JAMB



H HORIZONTAL SECTION
6 TYP. JAMB



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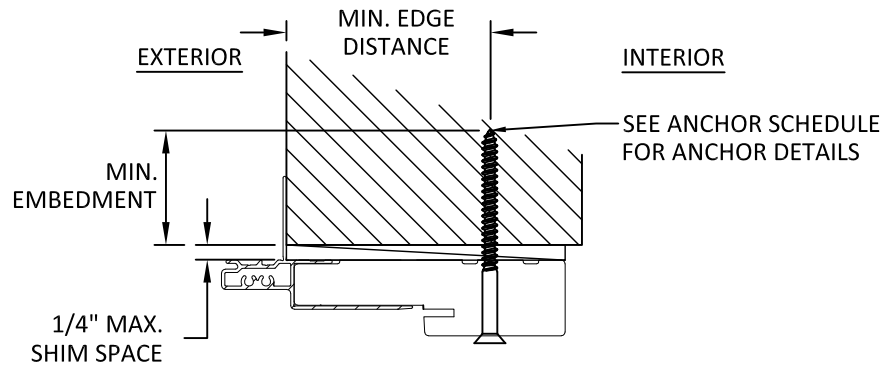
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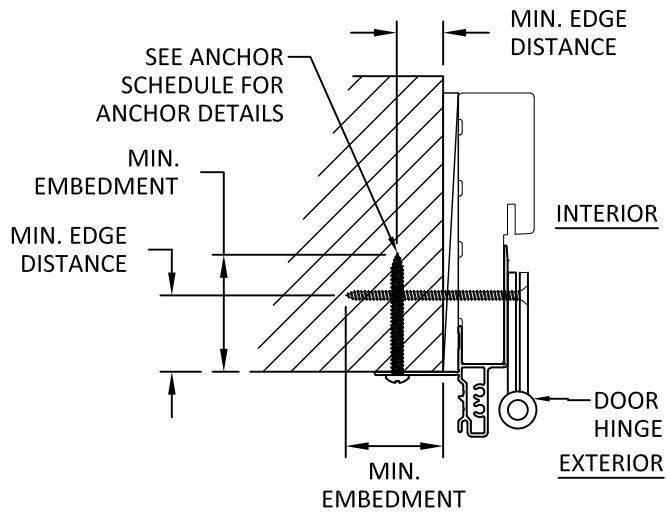
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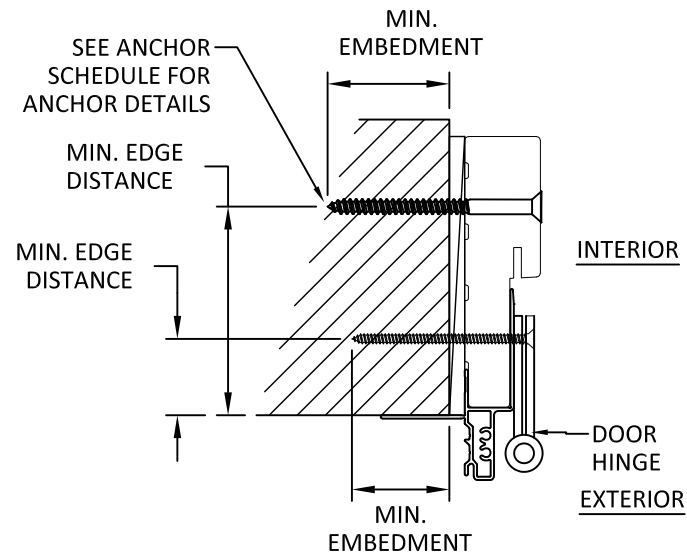
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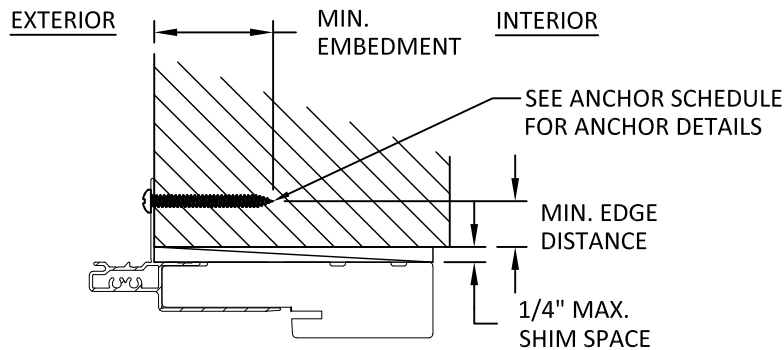
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7 **VERTICAL SECTION**
TYP. HEAD INSTALLATION
THROUGH FRAME



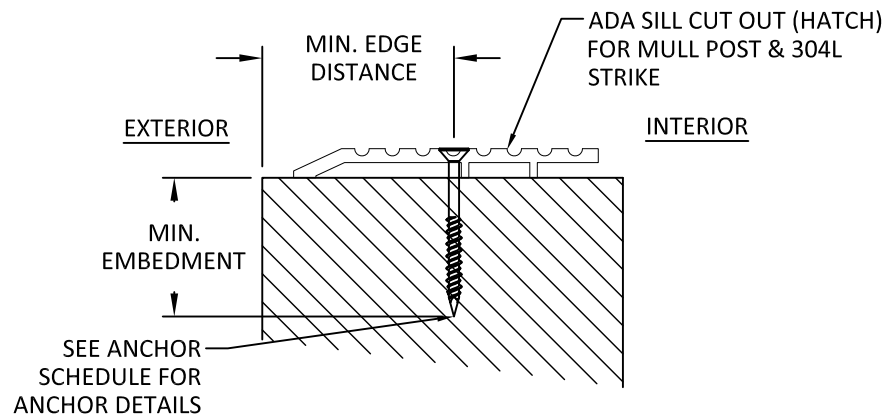
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7 **HORIZONTAL SECTION**
TYP. JAMB INSTALLATION
THROUGH ALUM. FIN/HINGE



E
7 **HORIZONTAL SECTION**
TYP. JAMB INSTALLATION
THROUGH FRAME/HINGE



B
7 **VERTICAL SECTION**
TYP. HEAD INSTALLATION
THROUGH ALUM. FIN



C
7 **VERTICAL SECTION**
TYP. SILL INSTALLATION
THROUGH FRAME

ANCHOR SCHEDULE - 500 SERIES				
INST. METHOD	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FIN	#10 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	0.75"
	#10 SELF-TAPPING SCREW	MIN. 18 GA. STEEL (33KSI)/ ALUMINUM 1/8" MIN. THK. 6063-T5	THREE (3) THREADS MIN.. PENETRATION BEYOND METAL FACE	0.50"
THROUGH FRAME	#10 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	1.25"
	#10 SELF-TAPPING SCREW	MIN. 18 GA. STEEL (33KSI)/ ALUMINUM 1/8" MIN. THK. 6063-T5	THREE (3) THREADS MIN.. PENETRATION BEYOND METAL FACE	0.50"
	3/16" ITW TAPCON	CONCRETE: f'c = 3000 PSI	1.50"	2.00"
	3/16" ITW TAPCON	MASONRY : CMU PER ASTM-C90, MIN. 2000 PSI	1.50"	2.50"

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 3.
- 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 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
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- 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.



FRONTLINE BUILDING PRODUCTS
610 JENSEN DRIVE
MEDFORD, WI 54451
PH: (715) 748-2288

TITLE:
**500 SERIES OUTSWING DOOR
(NON-HVHZ) (NON-IMPACT)**

ANCHOR DETAILS

PREPARED BY: **BUILDING DROPS, INC.**

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

PH: (954)395-8478

FAX: (954)744-4738

WEB: www.buildingdrops.com



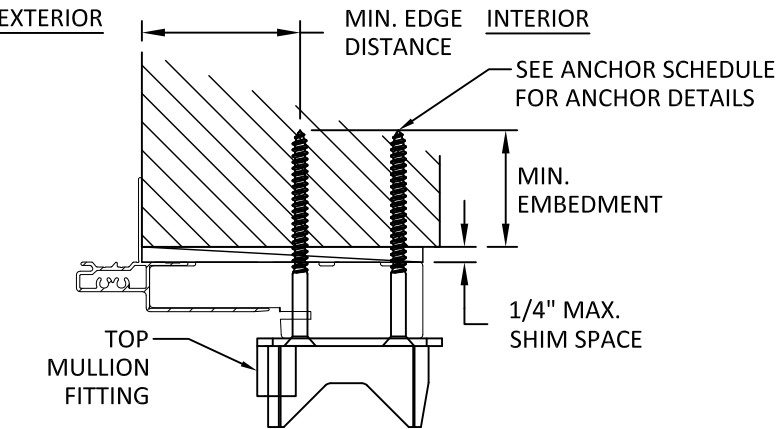
REMARKS	BY	DATE

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.

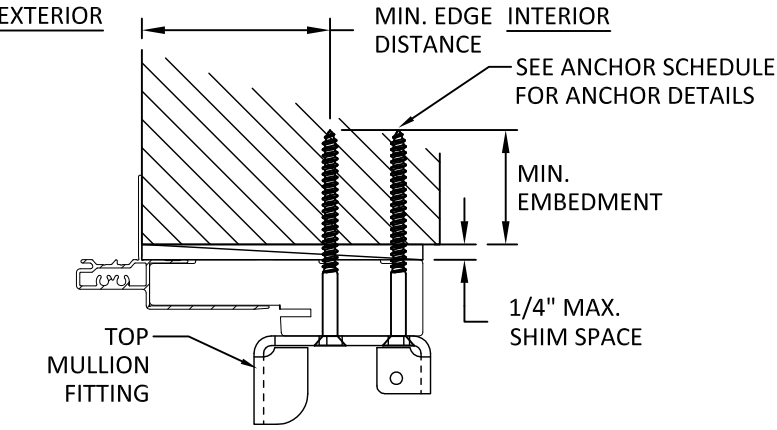


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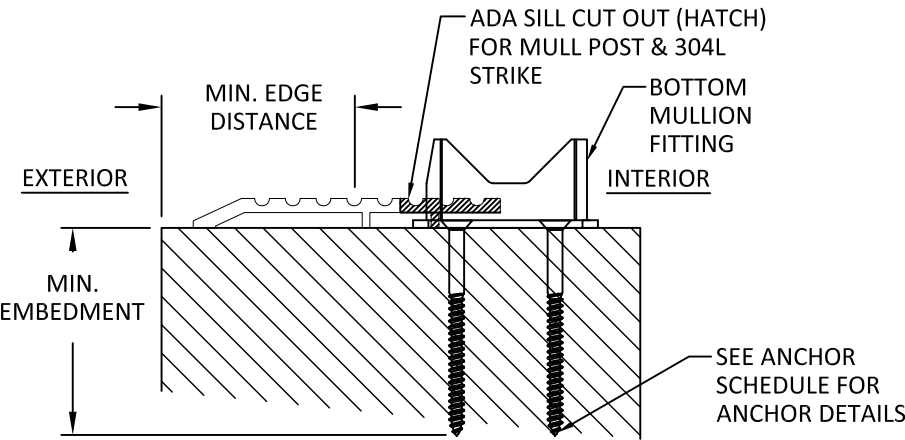
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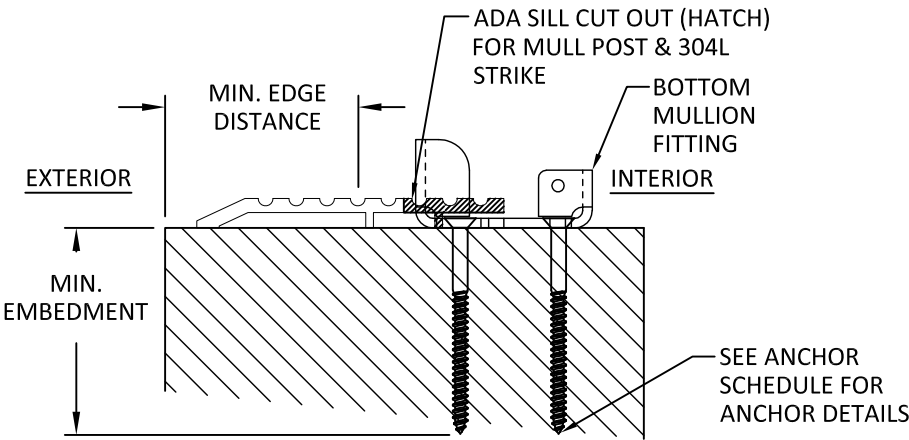
A
8 VERTICAL SECTION
HH9954 MULLION TYP. HEAD INSTALLATION
THROUGH FRAME - MULLION



B
8 VERTICAL SECTION
4495 MULLION TYP. HEAD INSTALLATION
THROUGH FRAME - MULLION



C
8 VERTICAL SECTION
HH9954 MULLION TYP. SILL INSTALLATION
THROUGH FRAME - MULLION



D
8 VERTICAL SECTION
4495 MULLION TYP. SILL INSTALLATION
THROUGH FRAME - MULLION

ANCHOR SCHEDULE - 500 SERIES				
INST. METHOD	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME - MULLION	#14 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	0.75"
	#14 SELF-TAPPING SCREW"	MIN. 18 GA. STEEL (33KSI)/ ALUMINUM 1/8" MIN. THK. 6063-T5	THREE (3) THREADS MIN.. PENETRATION BEYOND METAL FACE	0.50"
	1/4" ITW TAPCON	CONCRETE: f'c = 3000 PSI	1.50"	2.25"

INSTALLATION NOTES:

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MEDFORD, WI 54451
PH: (715) 748-2288

TITLE:
500 SERIES OUTSWING DOOR
(NON-HVHZ) (NON-IMPACT)

ANCHOR DETAILS

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1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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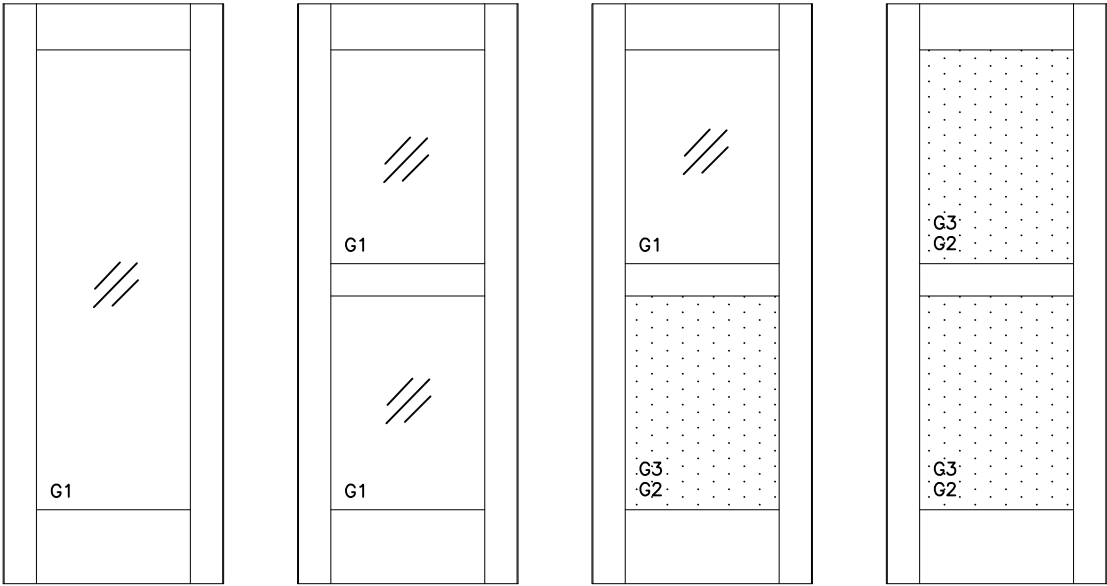
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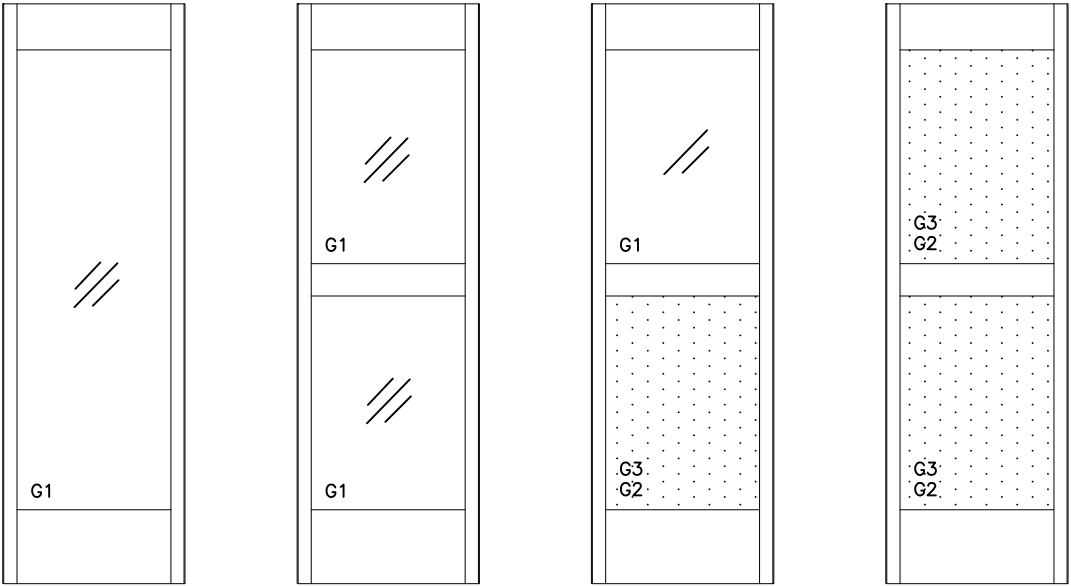


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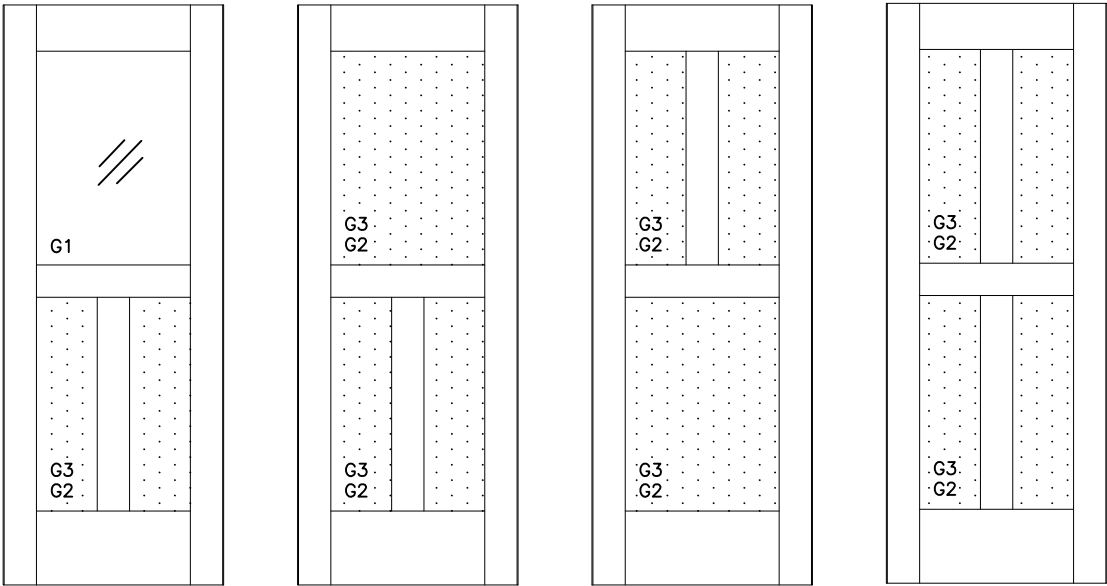
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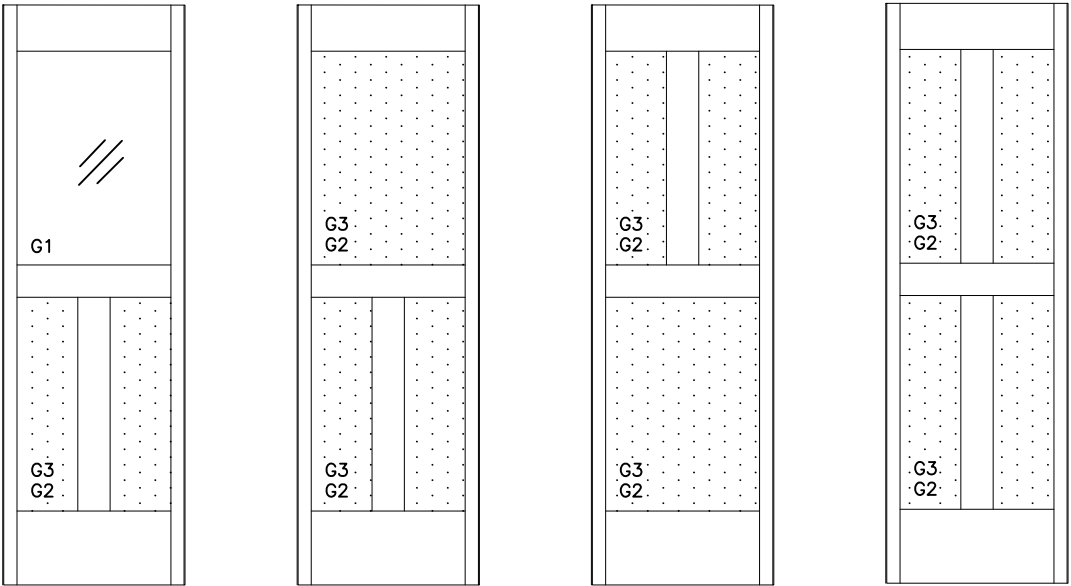
OPERABLE PANELS AND SIDELITES,
SEE GLAZING DETAILS ON SHEET 1



SIDELITES ONLY,
SEE GLAZING DETAILS ON SHEET 1



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500 SERIES OUTSWING DOOR
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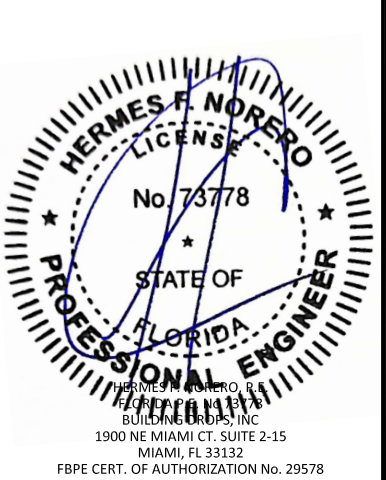
PANEL INFILL COMBINATIONS

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