

FRONTLINE BUILDING PRODUCT

500 SERIES OUTSWING DOOR

(HVHZ)(IMPACT)



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

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

GENERAL NOTES AND
GLAZING DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

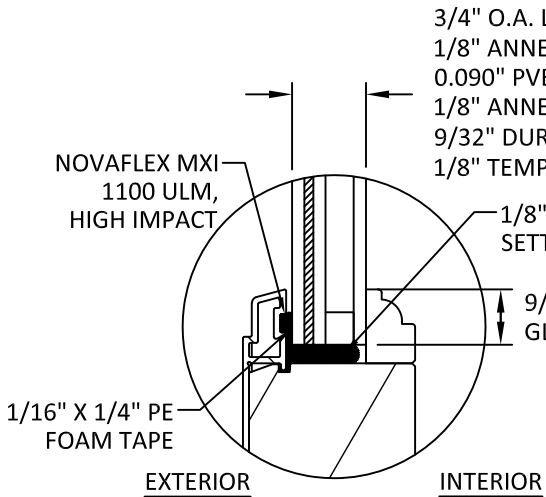
GENERAL NOTES:

- 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:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - 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.
- 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.
- 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 NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- DOOR FRAME MATERIAL: ALUMINUM (6063-T5) CLAD EXTERIOR OVER WOOD CORE
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

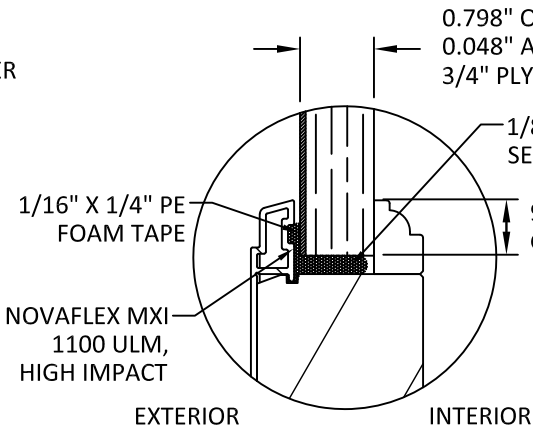
DESIGN RATING					
OVERALL SIZE			HARDWARE	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT	CONFIG.			
76"	96"	XX			
38"	96"	X			
76"	96"	OX			
111-1/8"	96"	OXX	VON DUPRIN HH9954 MULLION + 98/99 SVR*	+/- 55 PSF	LMI/SMI

*NOTE: SEE HARDWARE NOTE ON SHEET 2

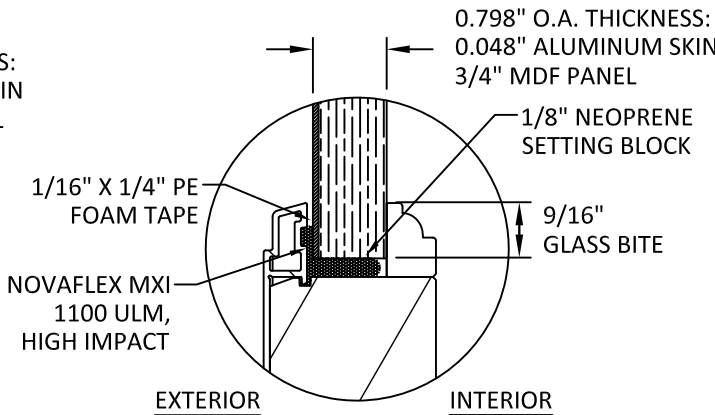
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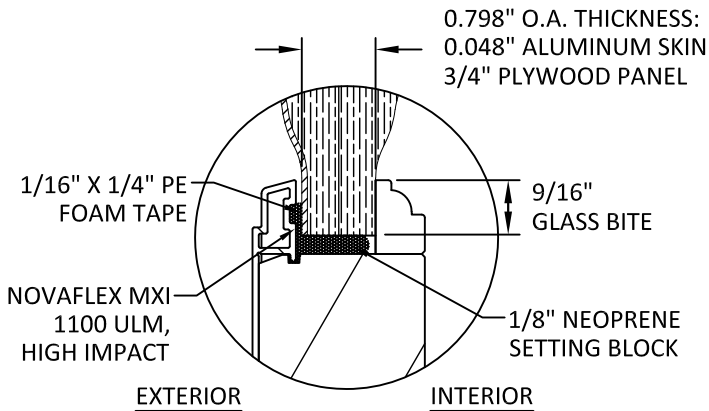
GLAZING DETAIL 1
3/4" IG GLAZING (G1)



GLAZING DETAIL 2
PLYWOOD INFILL PANEL (P2)



GLAZING DETAIL 3
MDF INFILL PANEL (P1)



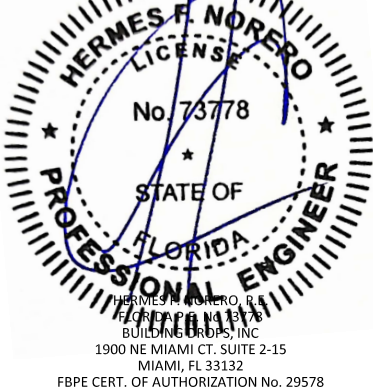
GLAZING DETAIL 4
PLYWOOD INFILL PANEL (P2)

GLAZING NOTES:

- GLASS TYPE COMPLIES 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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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.10.08 18:07:22 -04'00'



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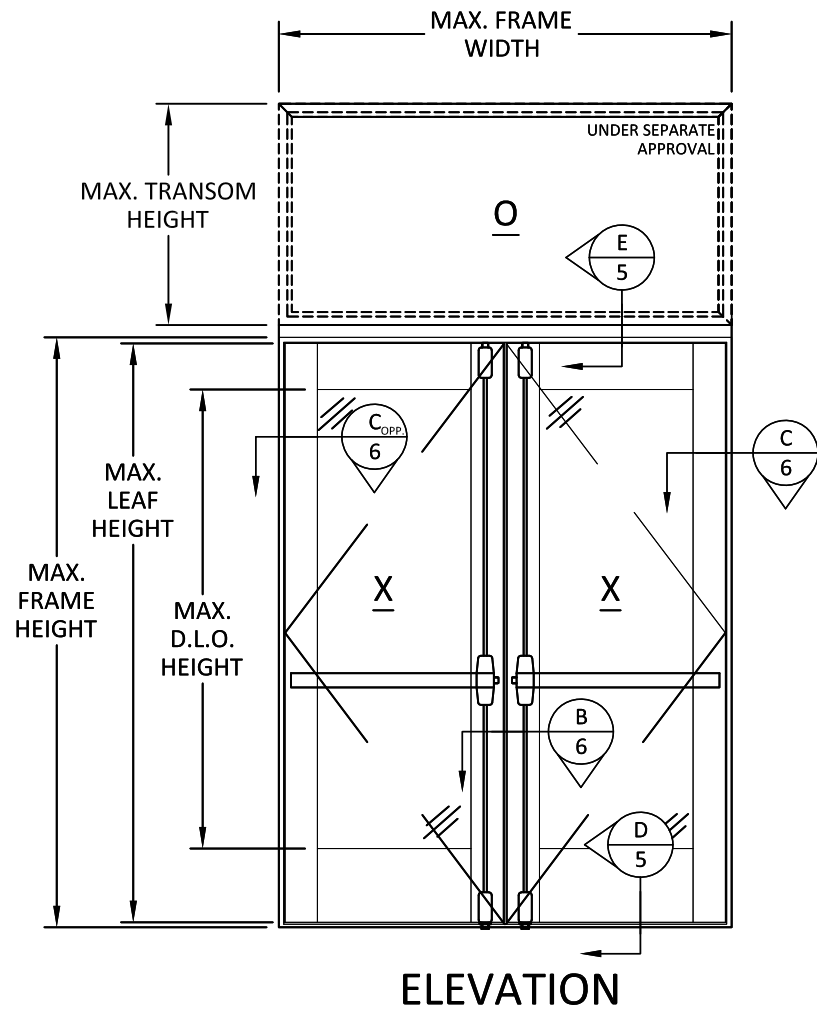
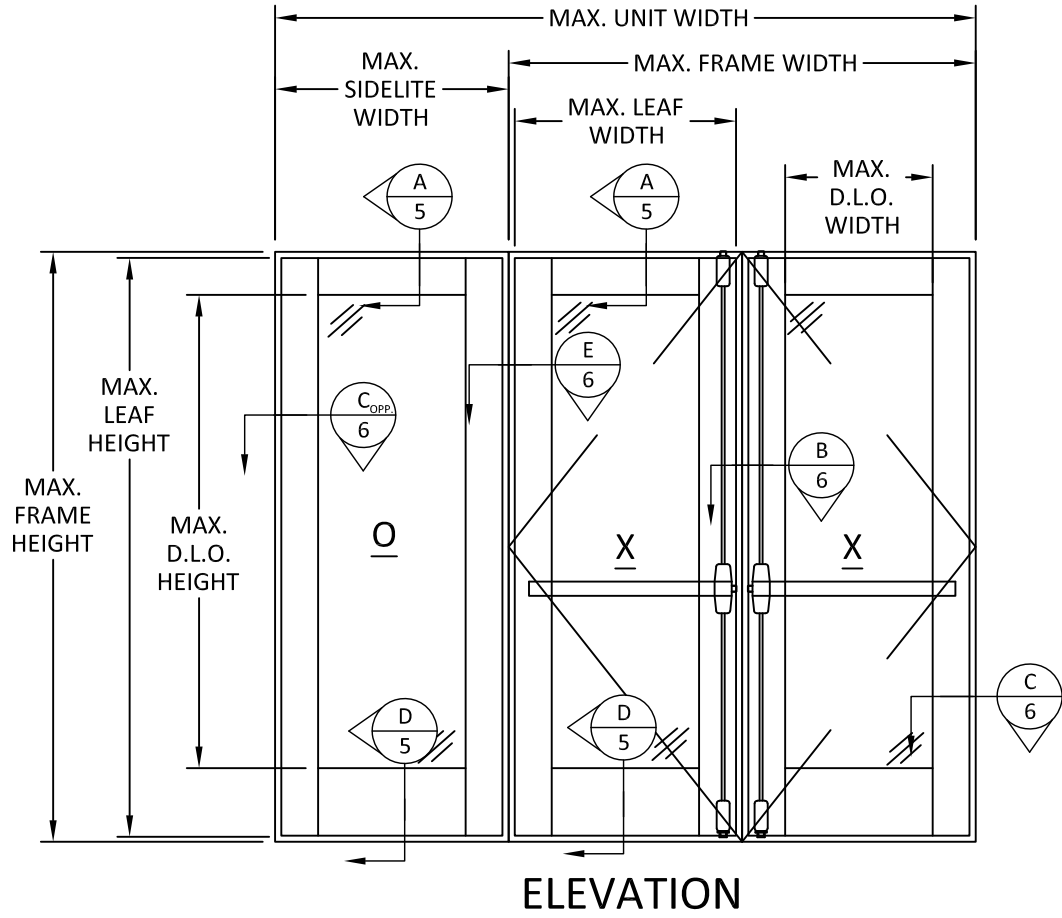
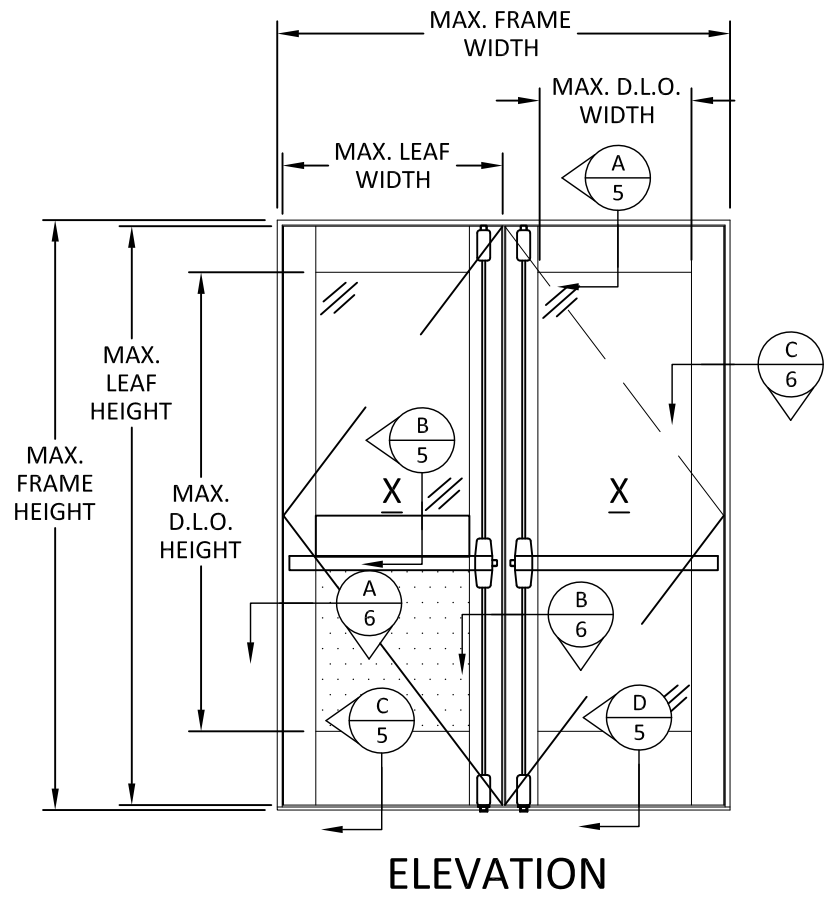
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SCALE: **NTS**

DWG. #: **FBP003**

SHEET:
1
OF 10

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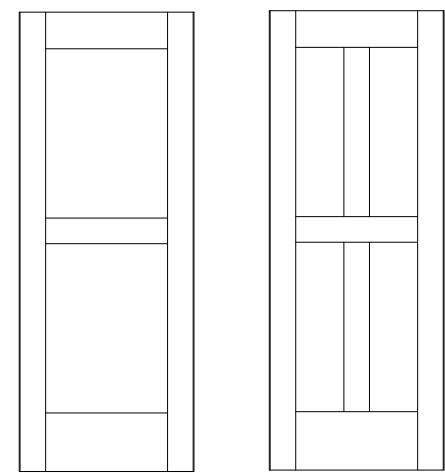


DOOR LEGEND

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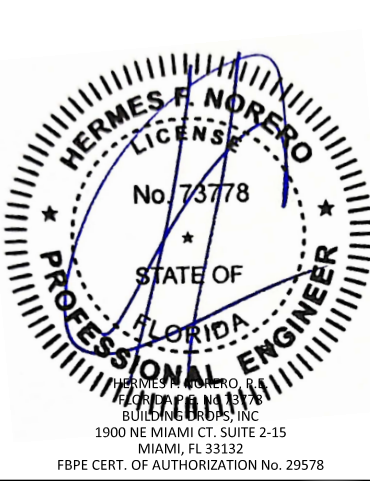
TITLE: 500 SERIES OUTSWING DOOR (HVHZ) (IMPACT) ELEVATIONS

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REMARKS	BY	DATE

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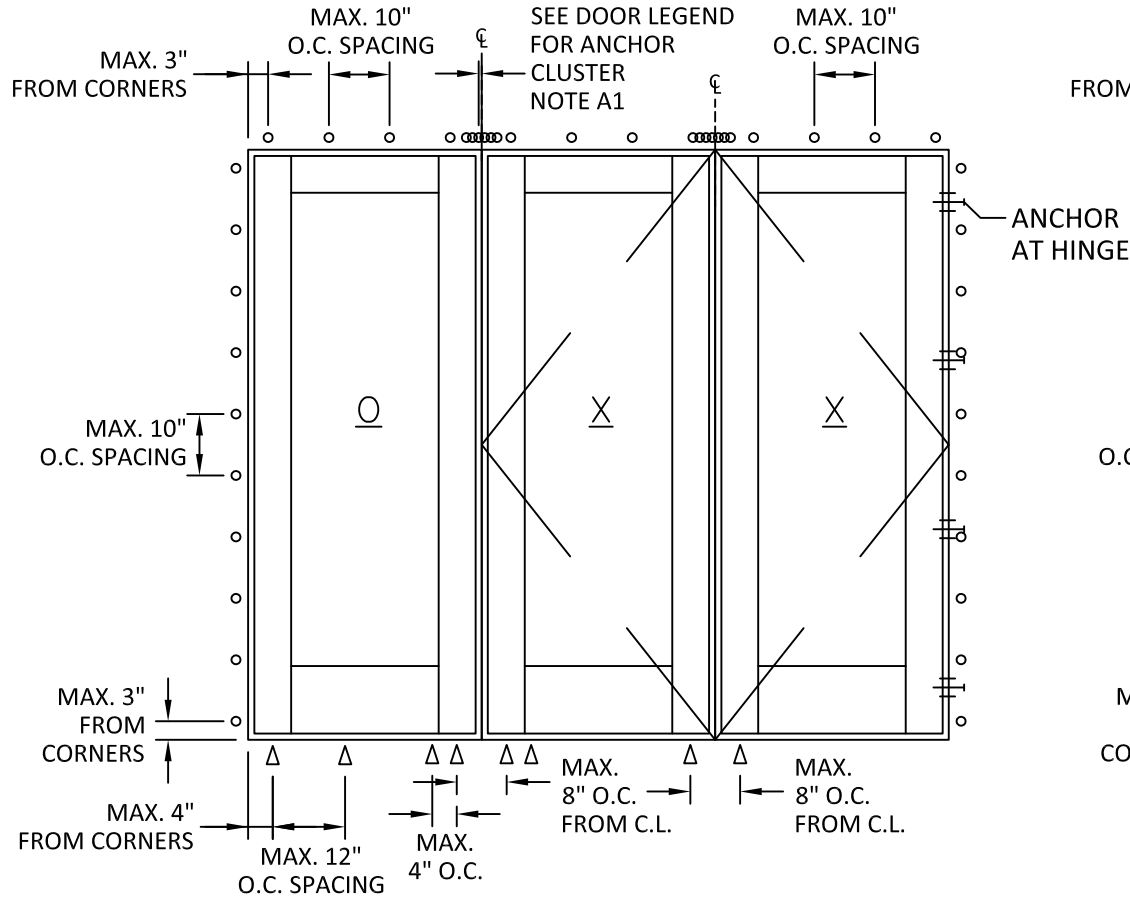
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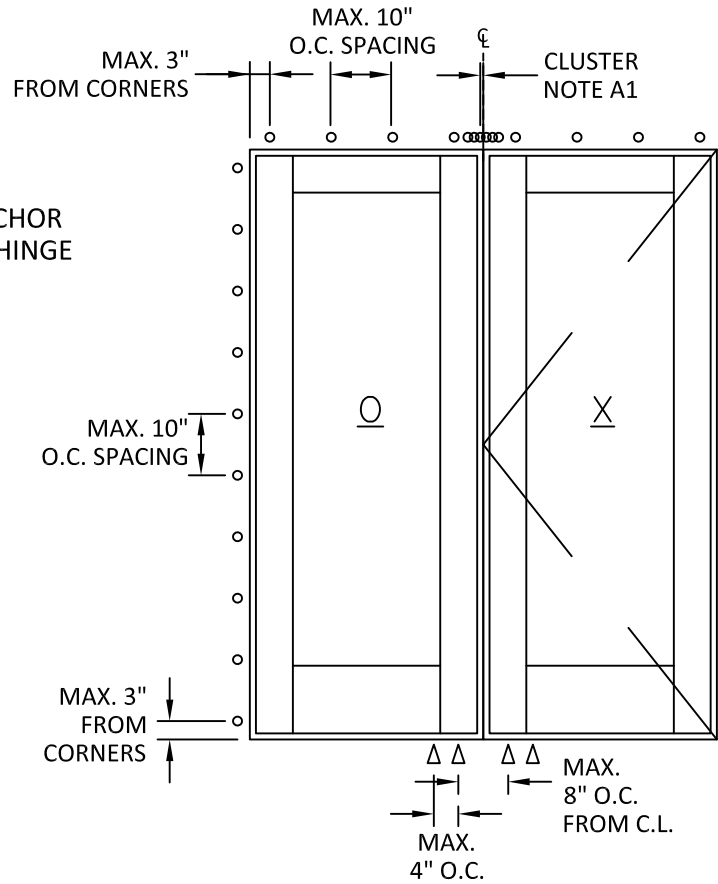
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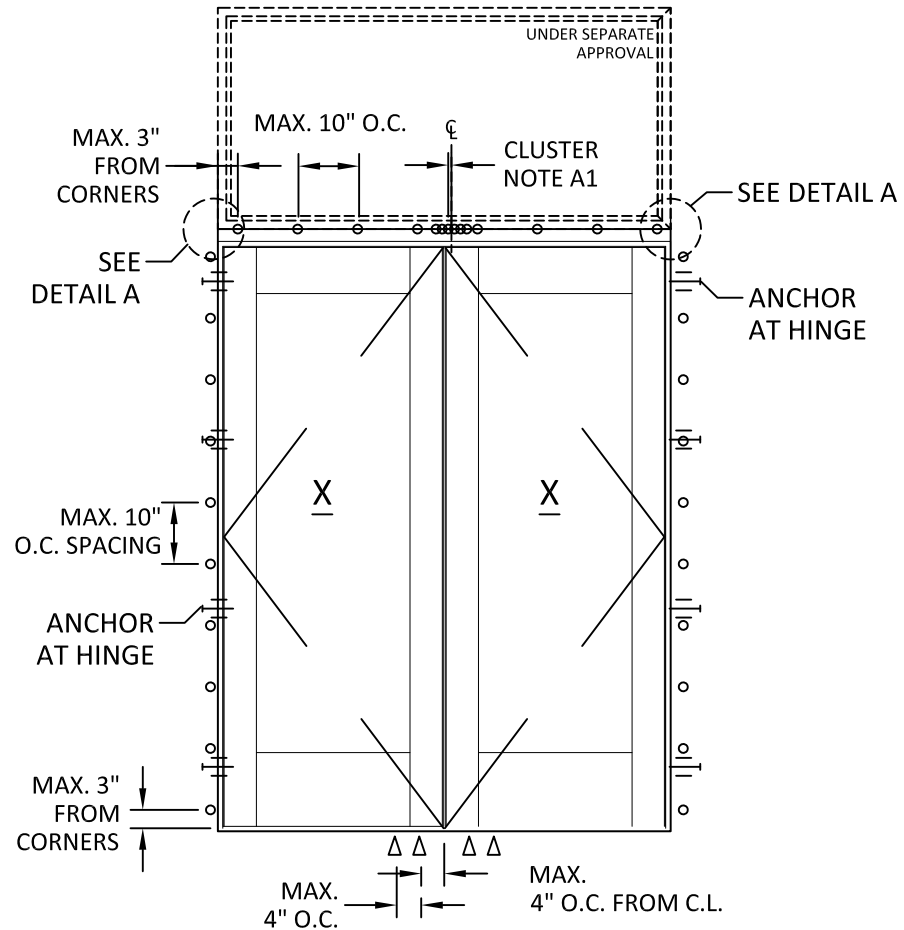
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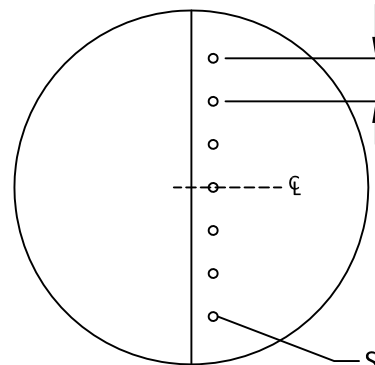
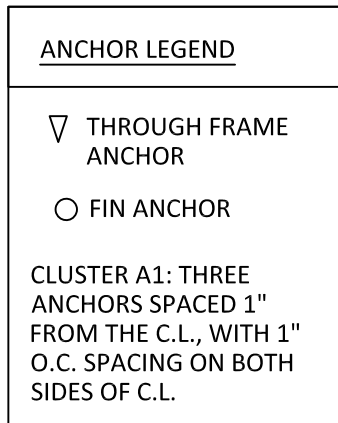
ANCHOR LAYOUT



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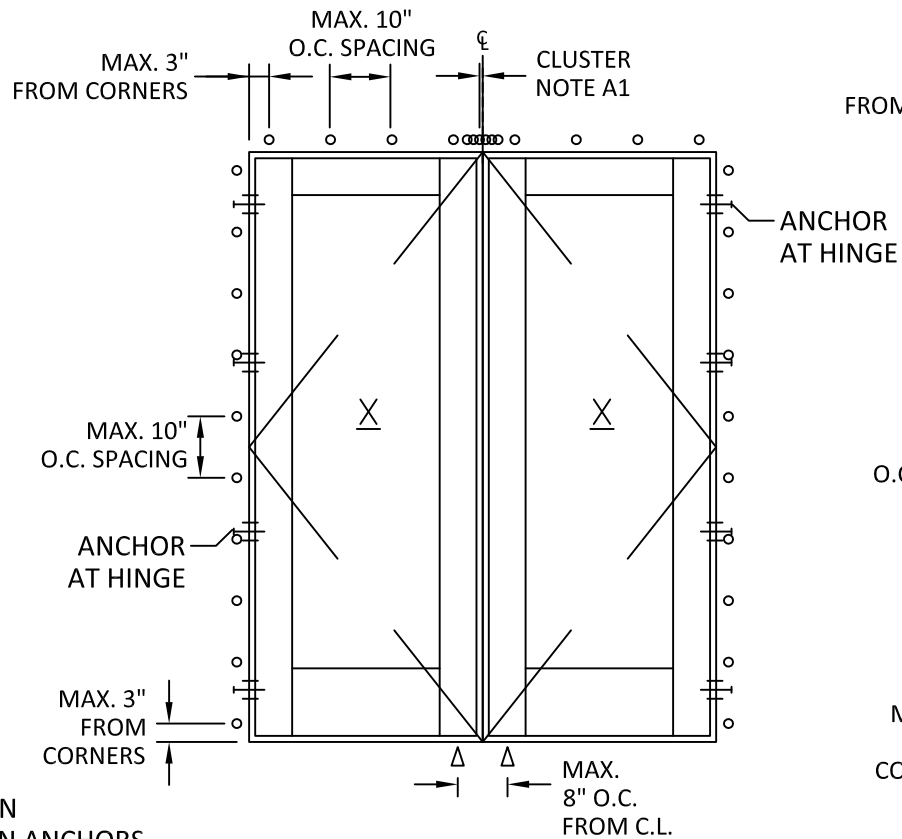


DETAIL A

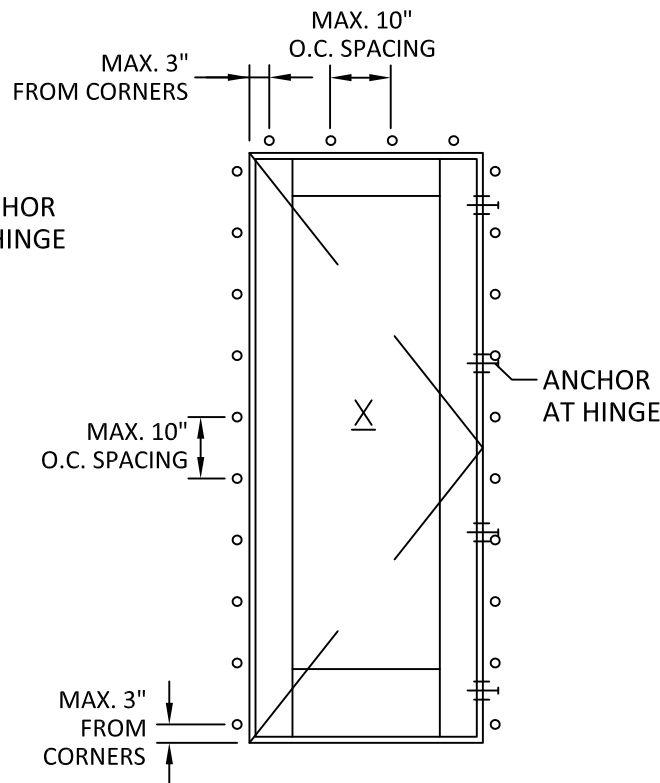
MAX. 1" O.C. SPACING

ANCHOR AT HINGE

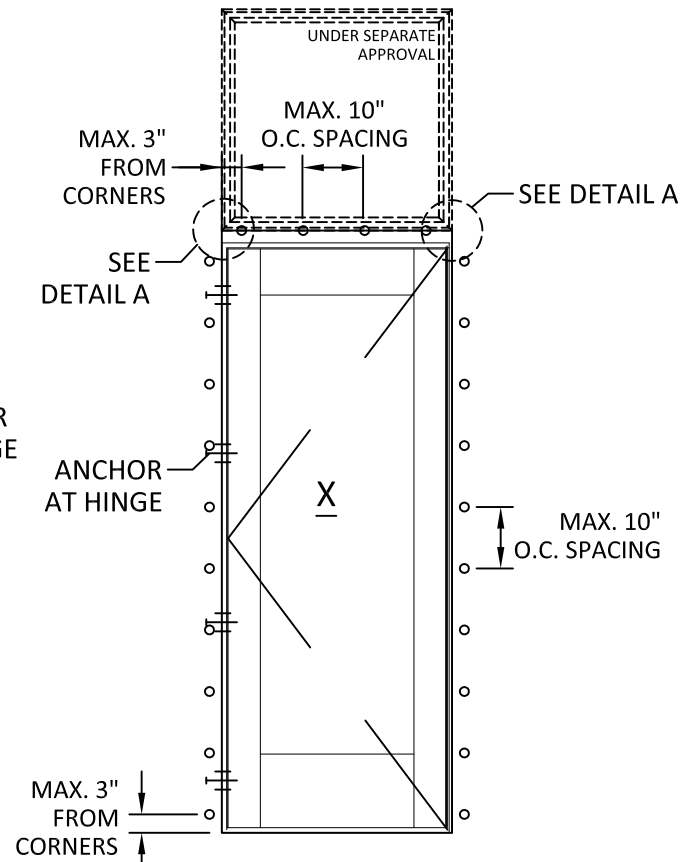
SEE SHEET 7 THROUGH-FIN INSTALLATION ANCHORS



ANCHOR LAYOUT



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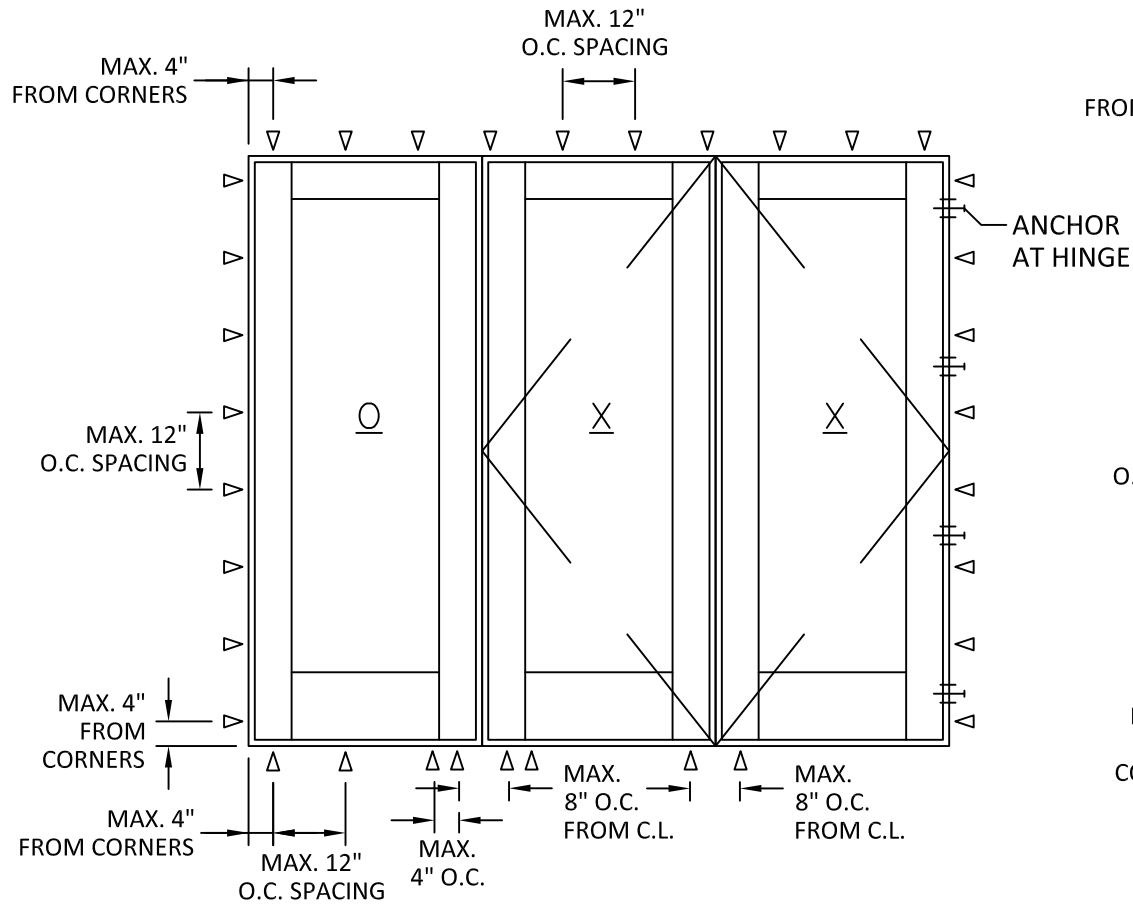
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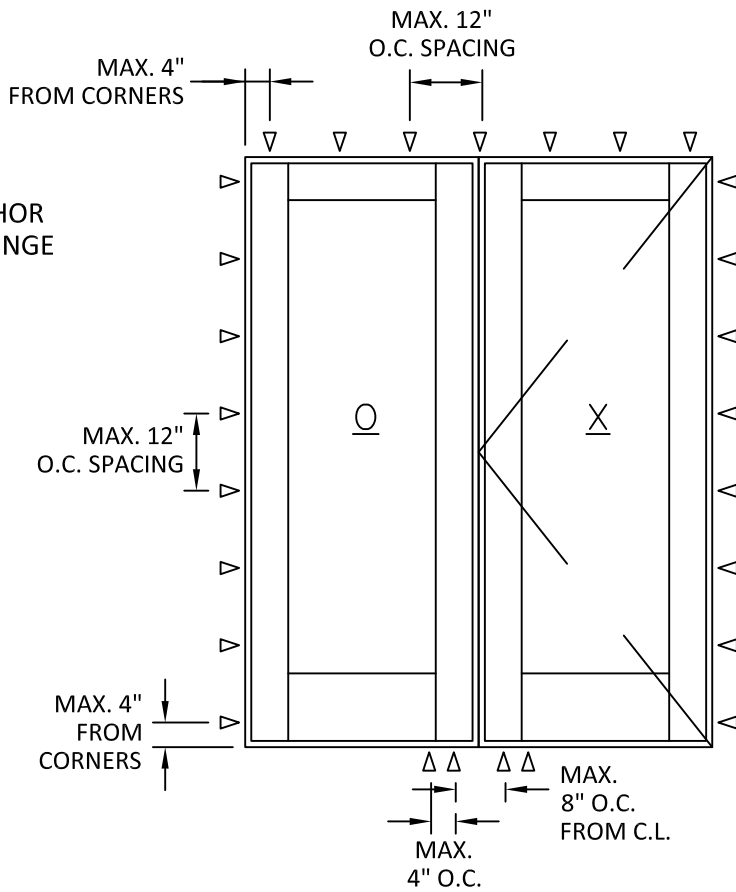


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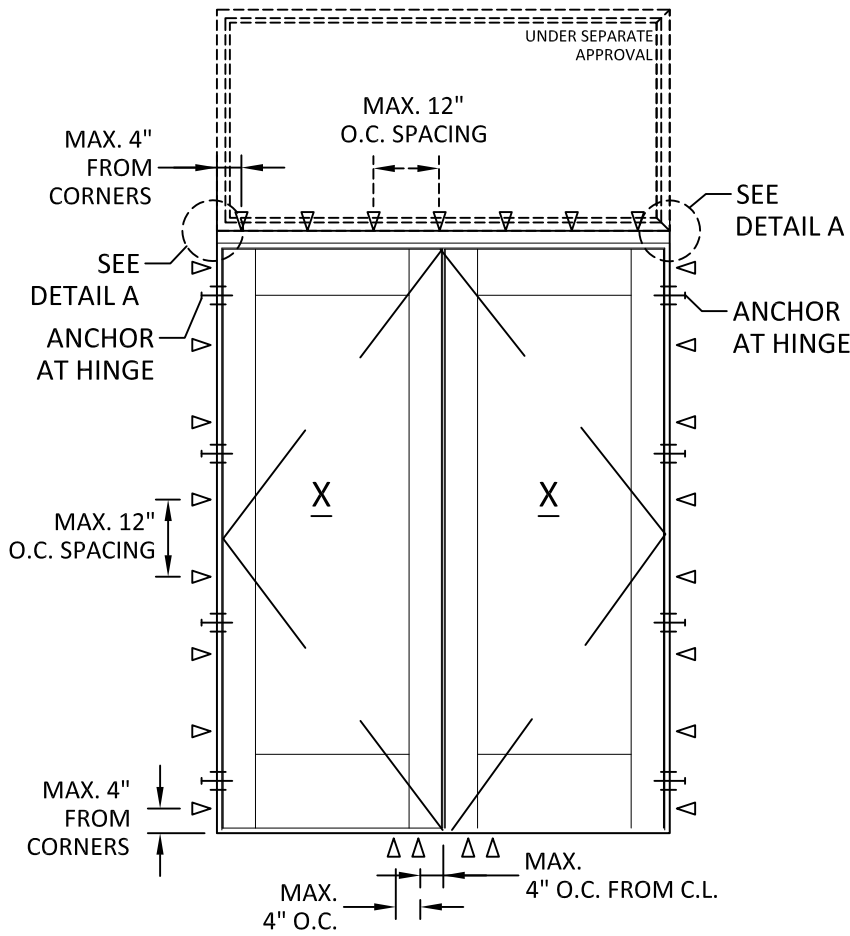
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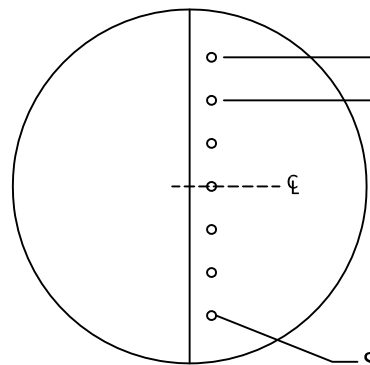
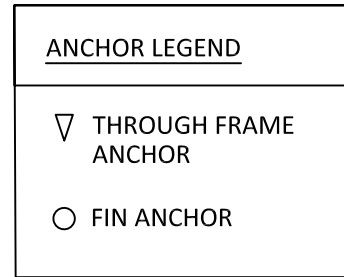
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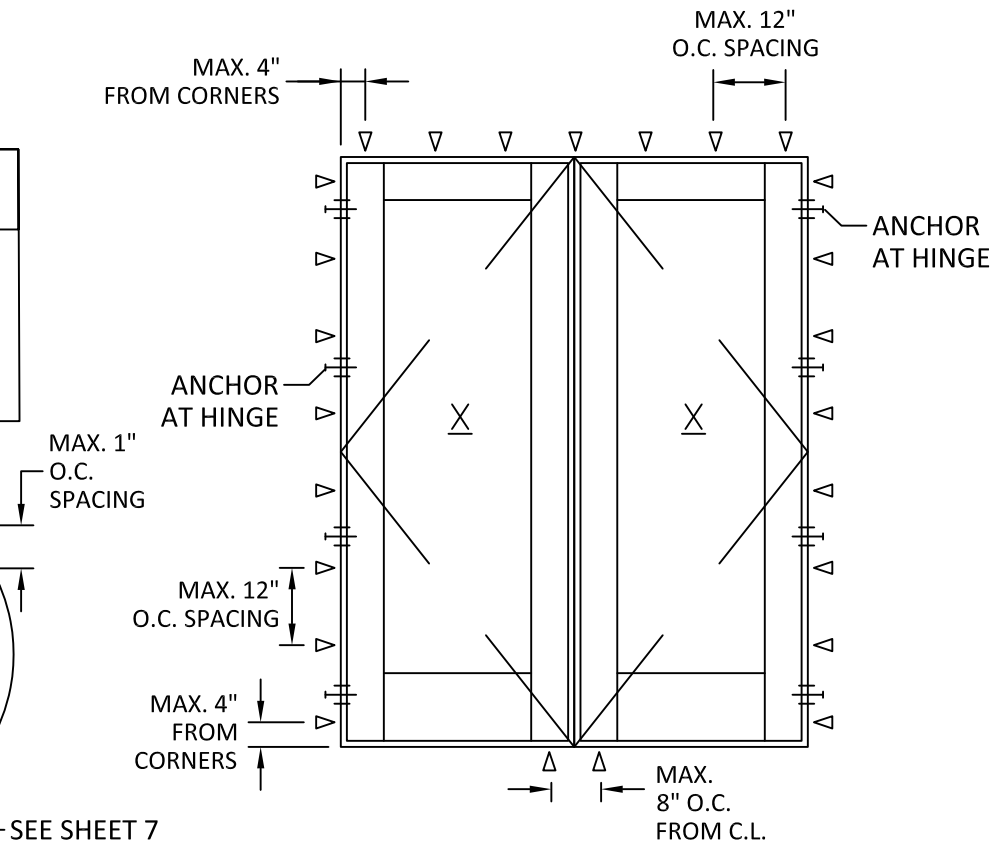
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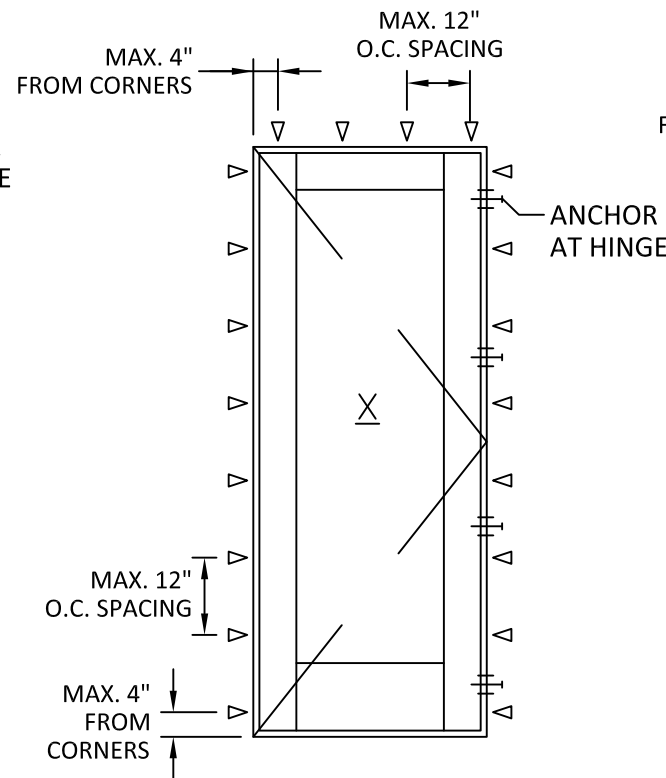
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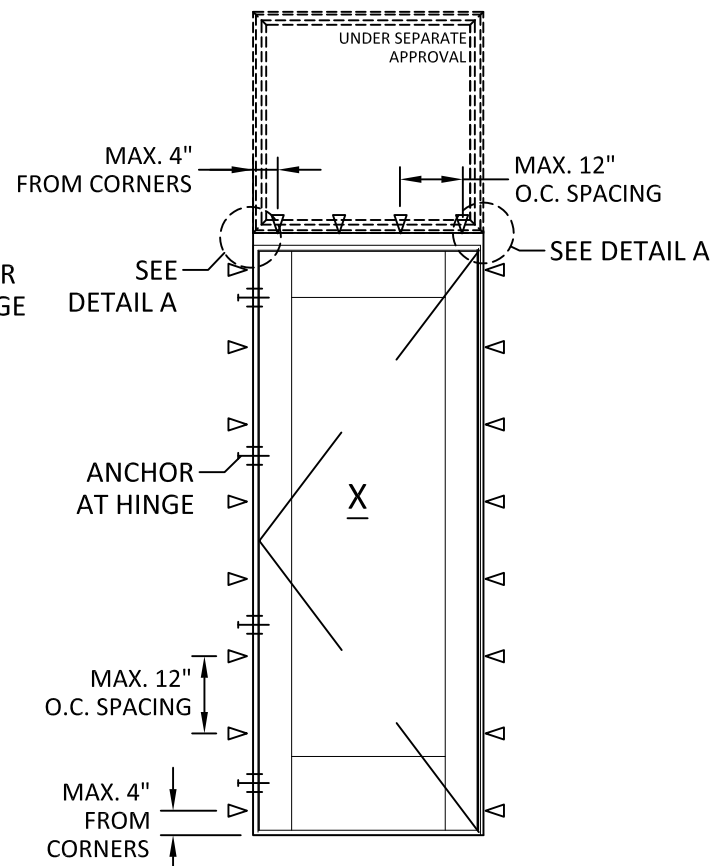
DETAIL A



ANCHOR LAYOUT



ANCHOR LAYOUT



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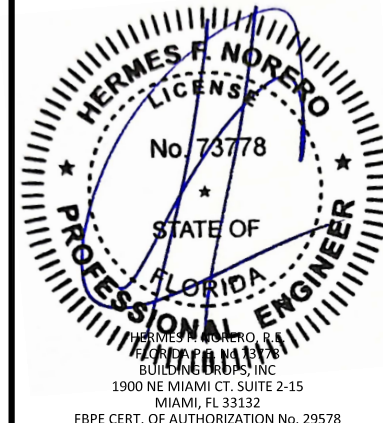
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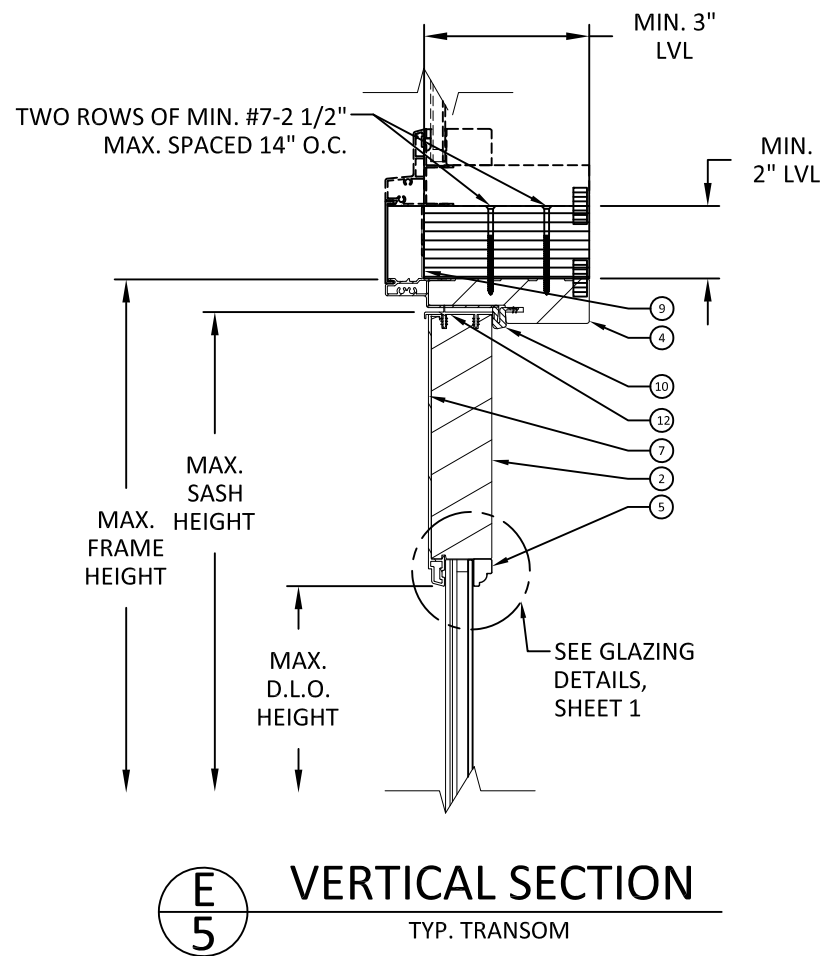
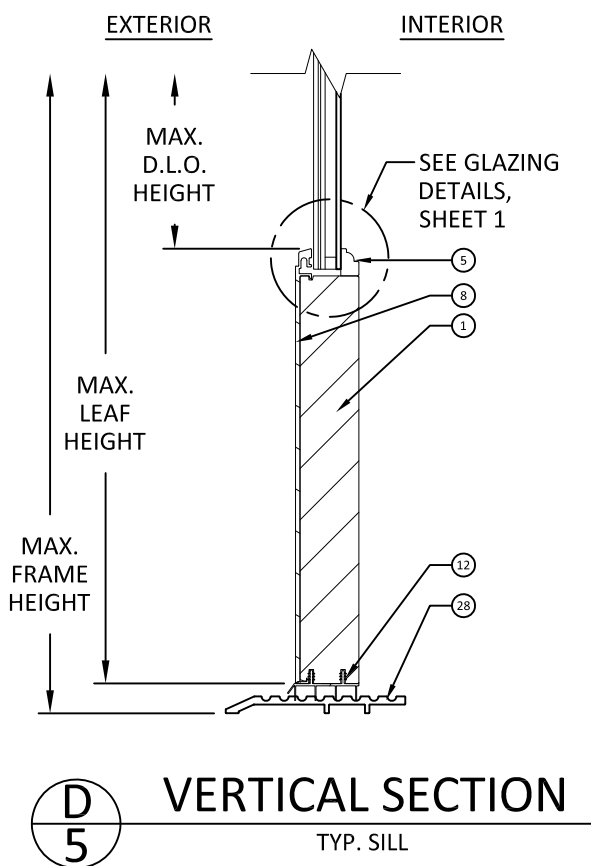
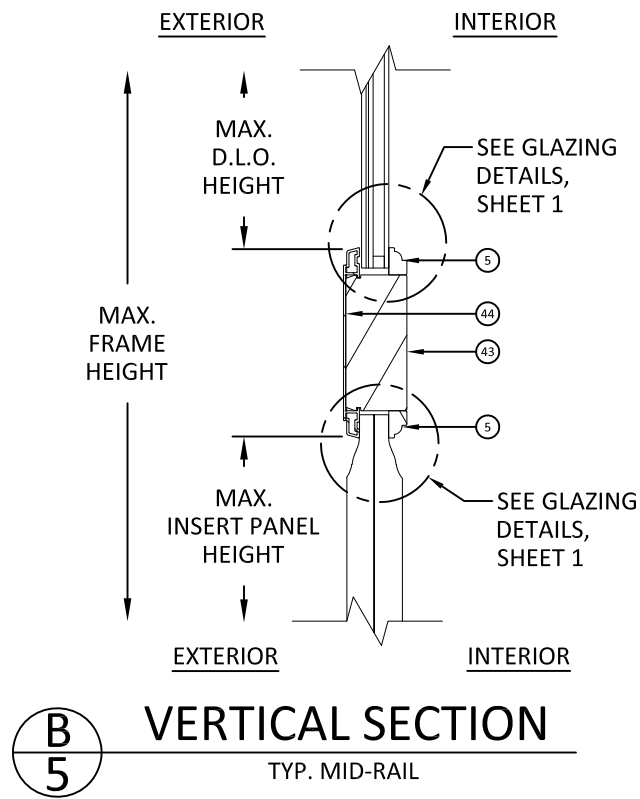
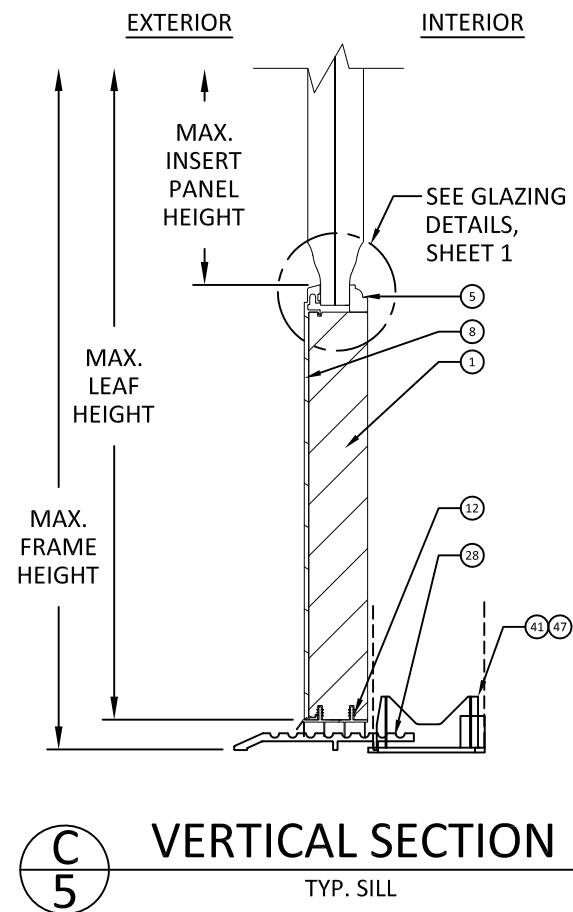
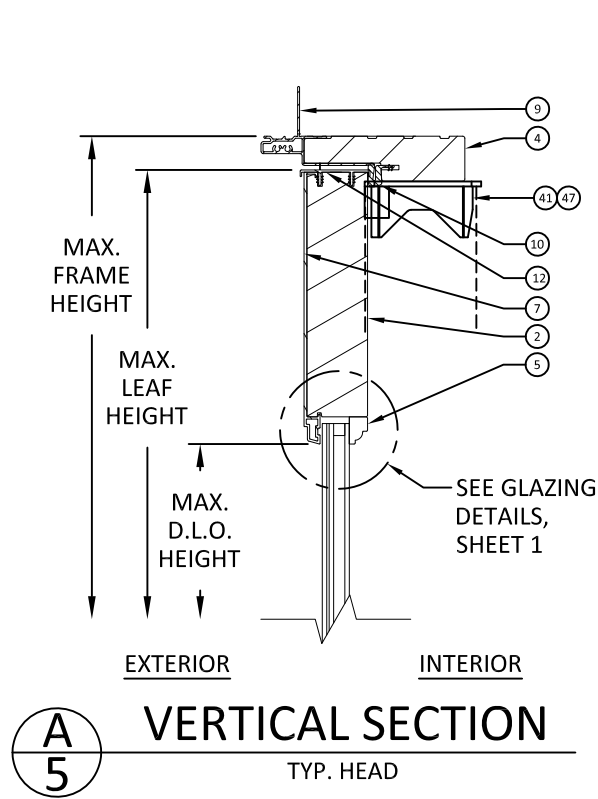
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DWG. #:	FBP003
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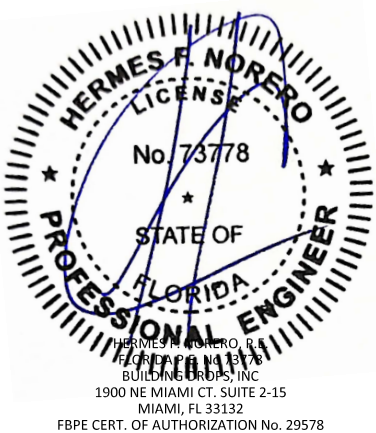
VERTICAL SECTIONS

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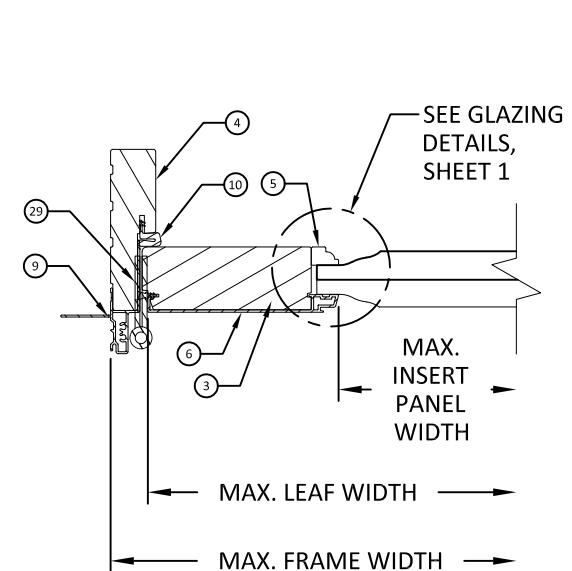
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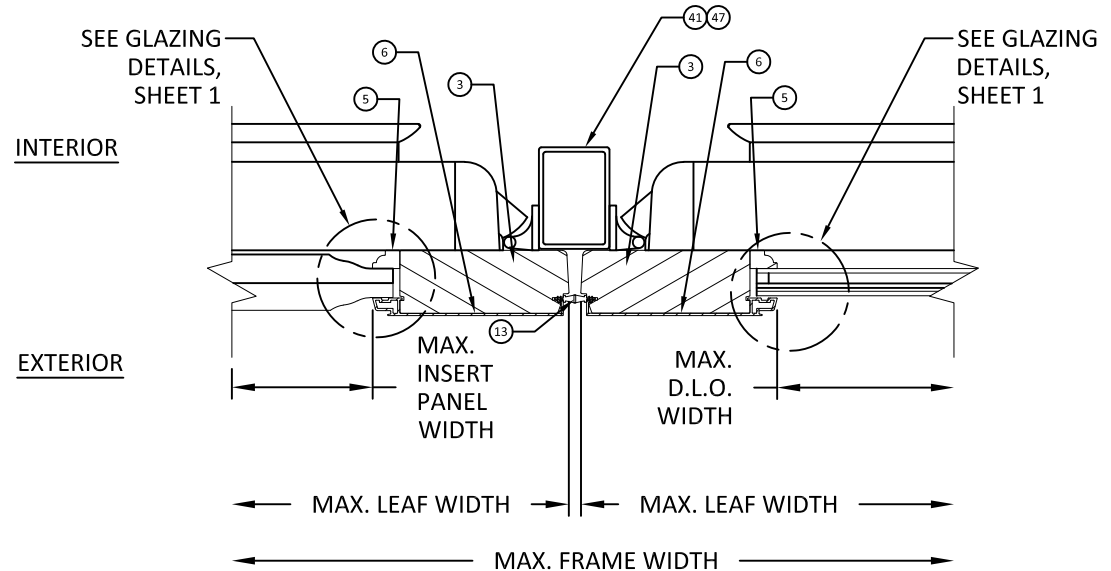


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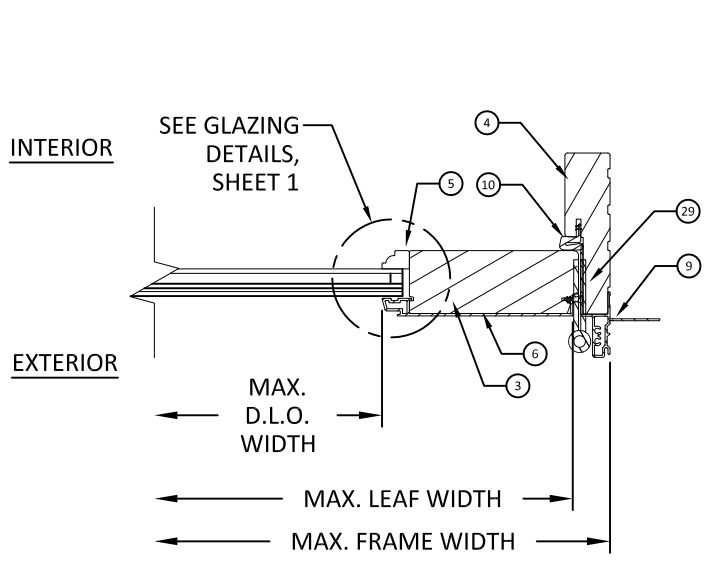
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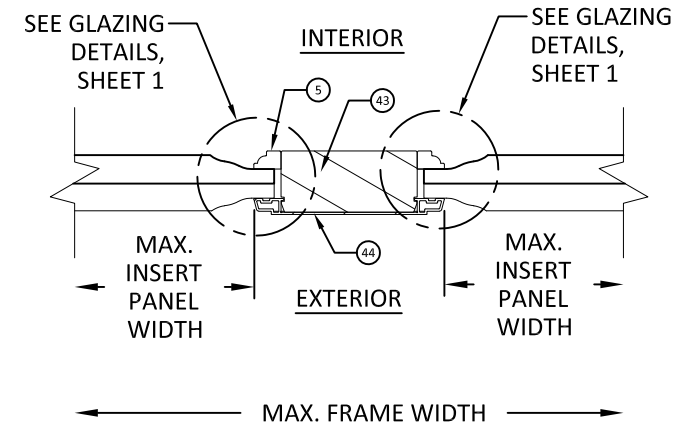
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6 TYP. JAMB



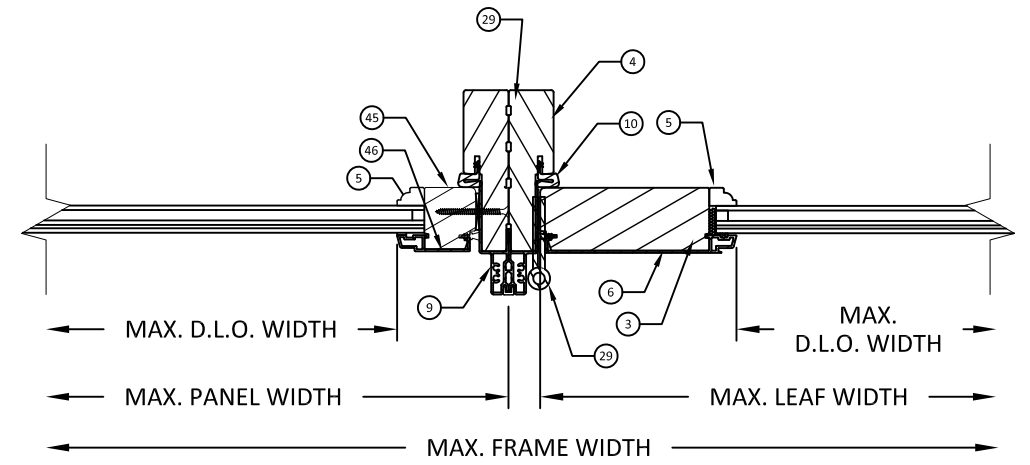
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6 TYP. ASTRAGAL W/ EXIT DEVICE MULLION



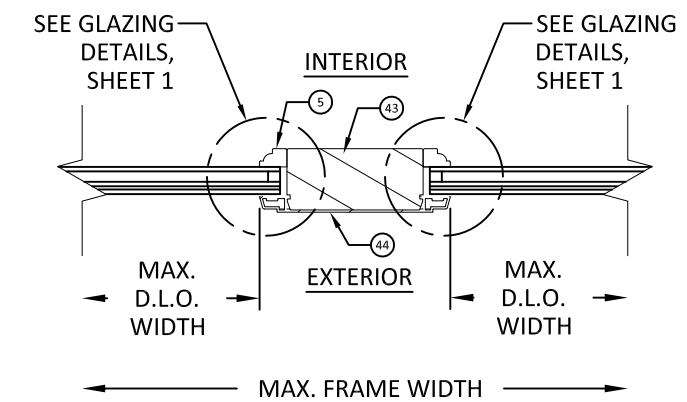
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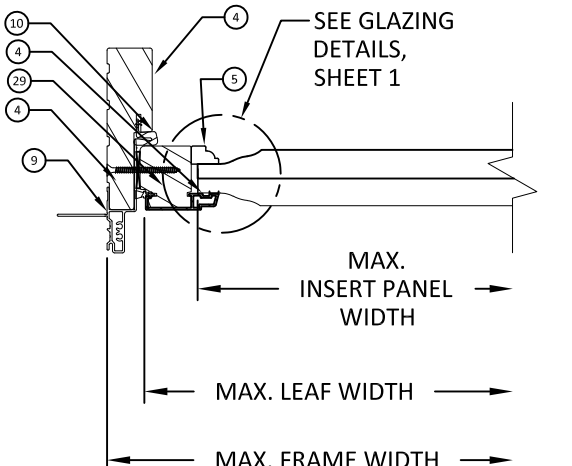
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6 TYP. JAMB



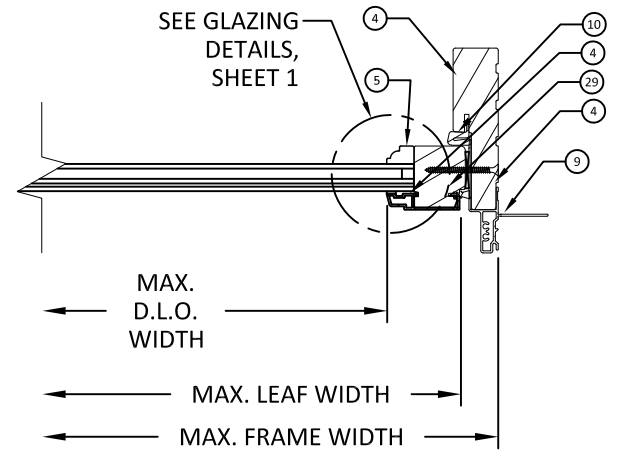
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6 TYP. MULLION JAMB TO JAMB



F HORIZONTAL SECTION
6 TYP. JAMB



G HORIZONTAL SECTION
6 TYP. JAMB



H HORIZONTAL SECTION
6 TYP. JAMB



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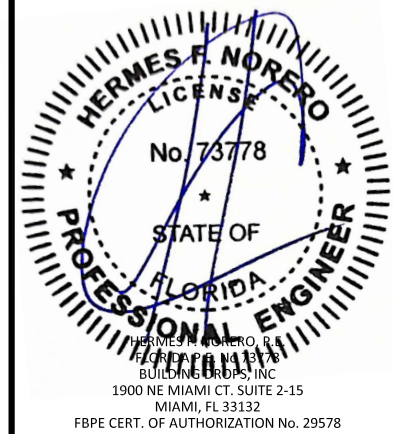
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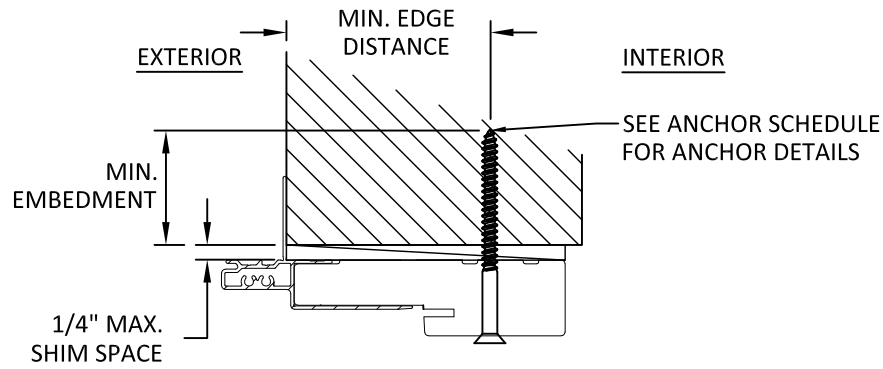
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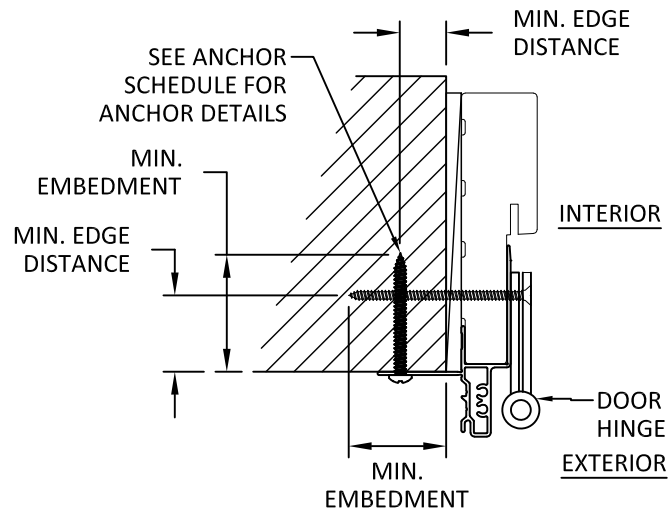
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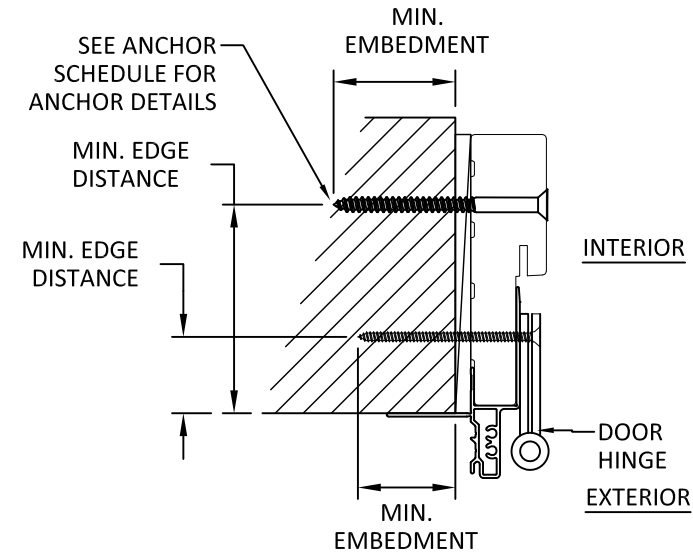
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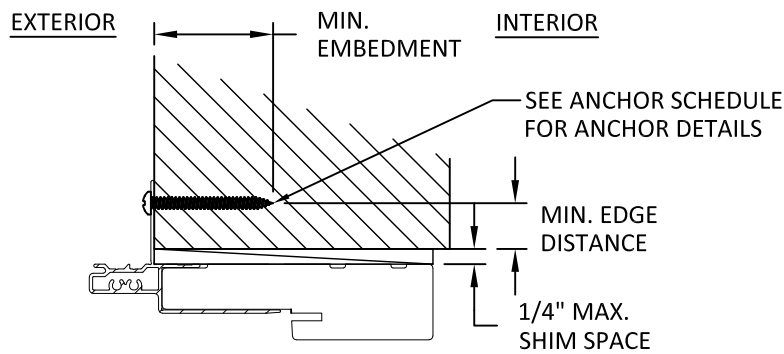
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7 **VERTICAL SECTION**
TYP. HEAD INSTALLATION
THROUGH FRAME



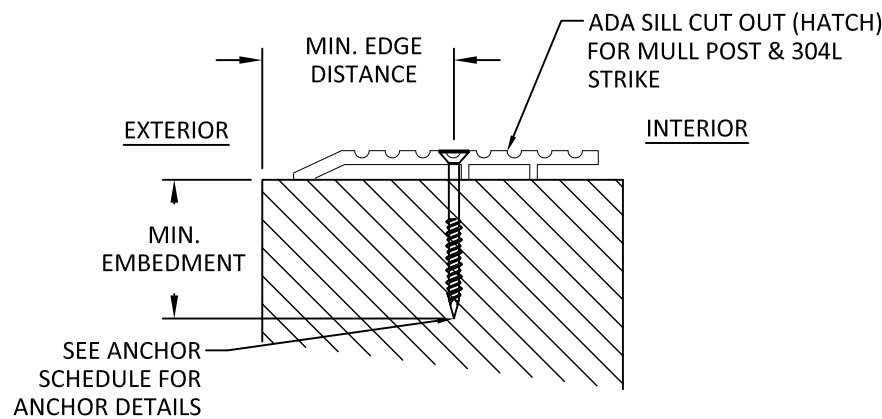
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7 **HORIZONTAL SECTION**
TYP. JAMB INSTALLATION
THROUGH ALUM. FIN/HINGE



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"	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"
	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.
- 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.



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

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

ANCHOR DETAILS, SCHEDULE
AND INSTALLATION NOTES

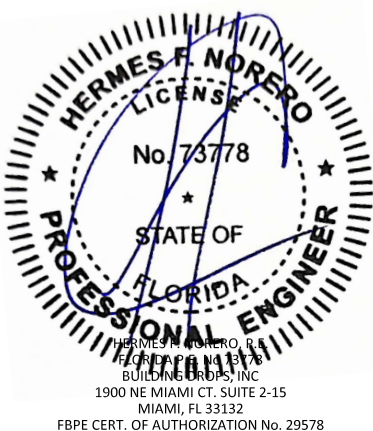
PREPARED BY:
BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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FL #:
FL47714

DATE: **07.21.2025**

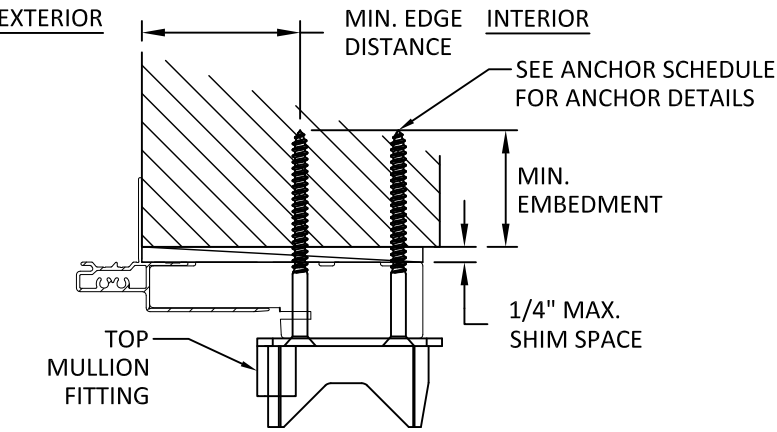
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SCALE: **NTS**

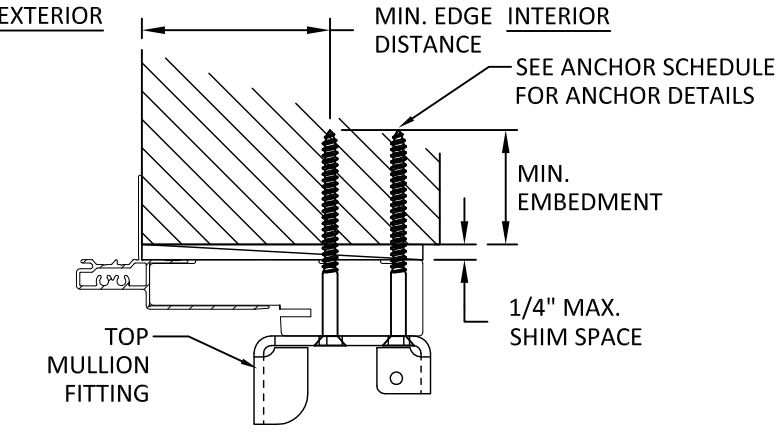
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SHEET:
7

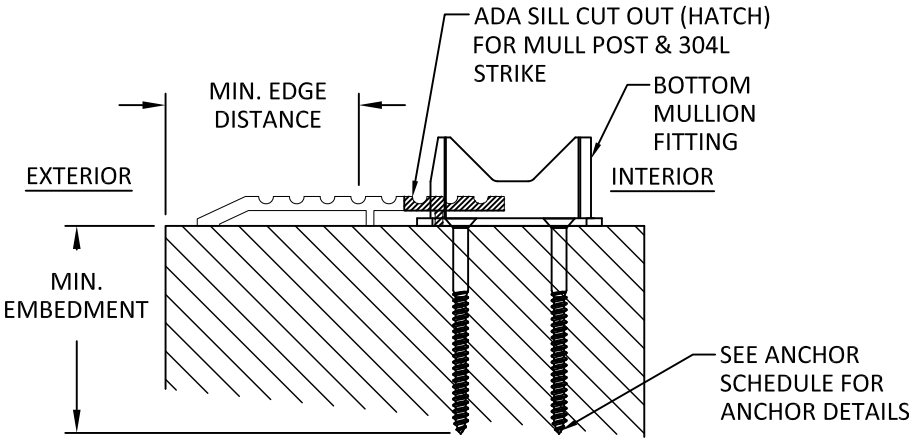
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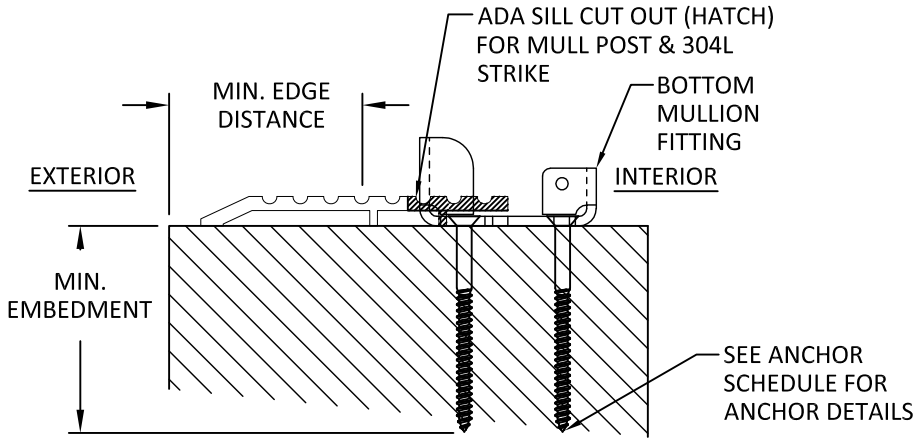
A
8 VERTICAL SECTION
HH9954 MULLION TYP. HEAD INSTALLATION
THROUGH FRAME - MULLION



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:

- 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.
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- 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
(HVHZ) (IMPACT)

ANCHOR DETAILS, SCHEDULE
AND INSTALLATION NOTES

PREPARED BY:

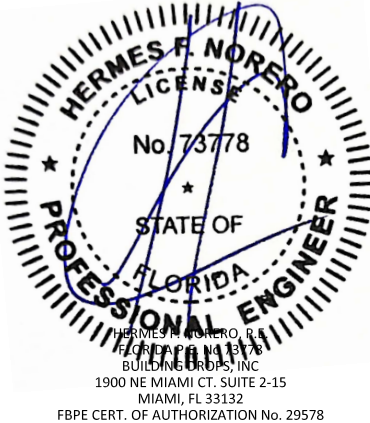
BUILDING DROPS, INC.

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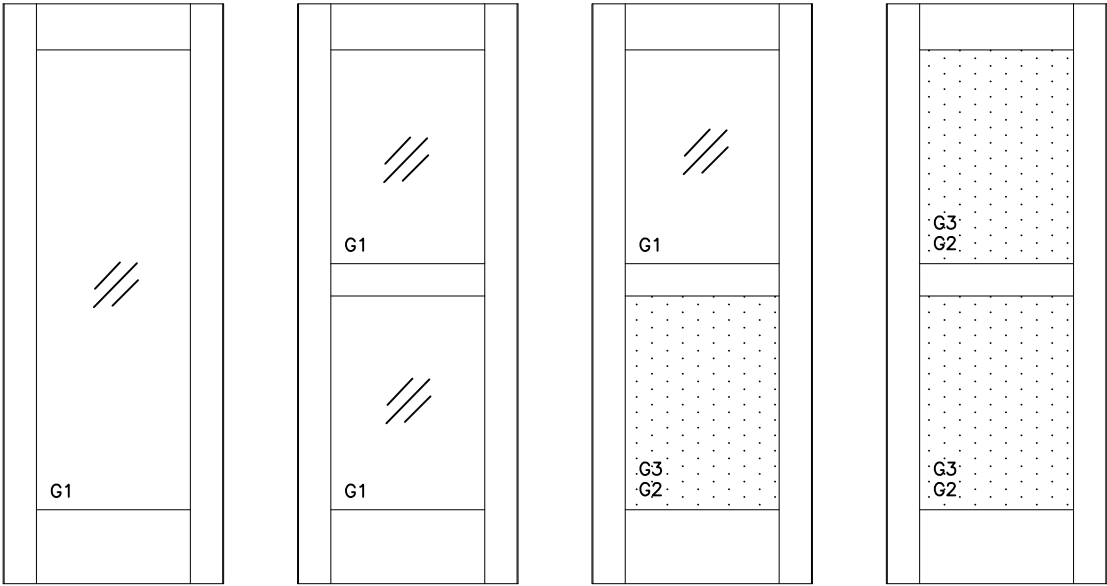
REMARKS	BY	DATE

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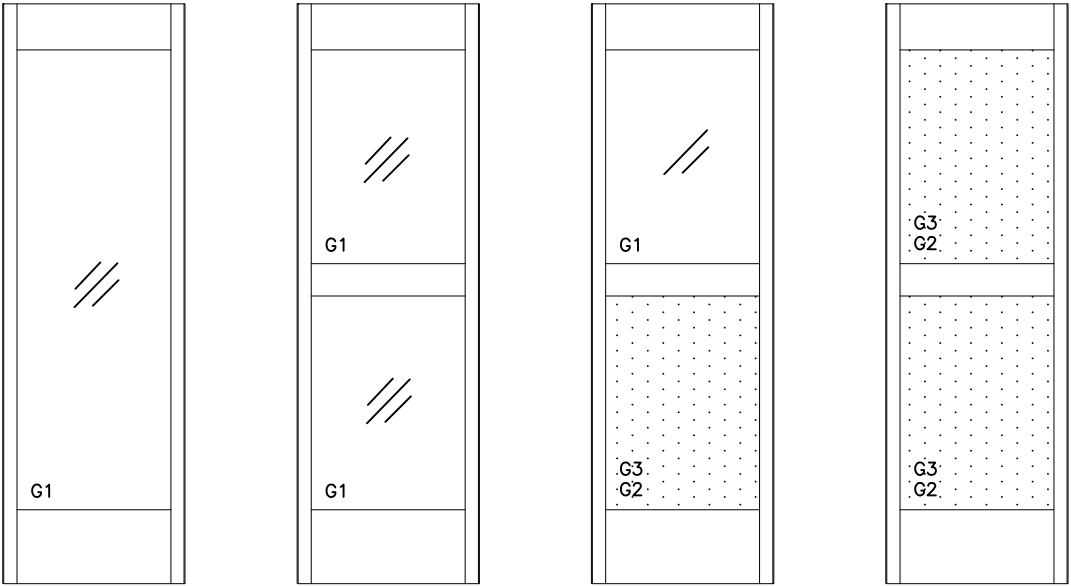


FL #:	FL47714
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	FBP003
SHEET:	8

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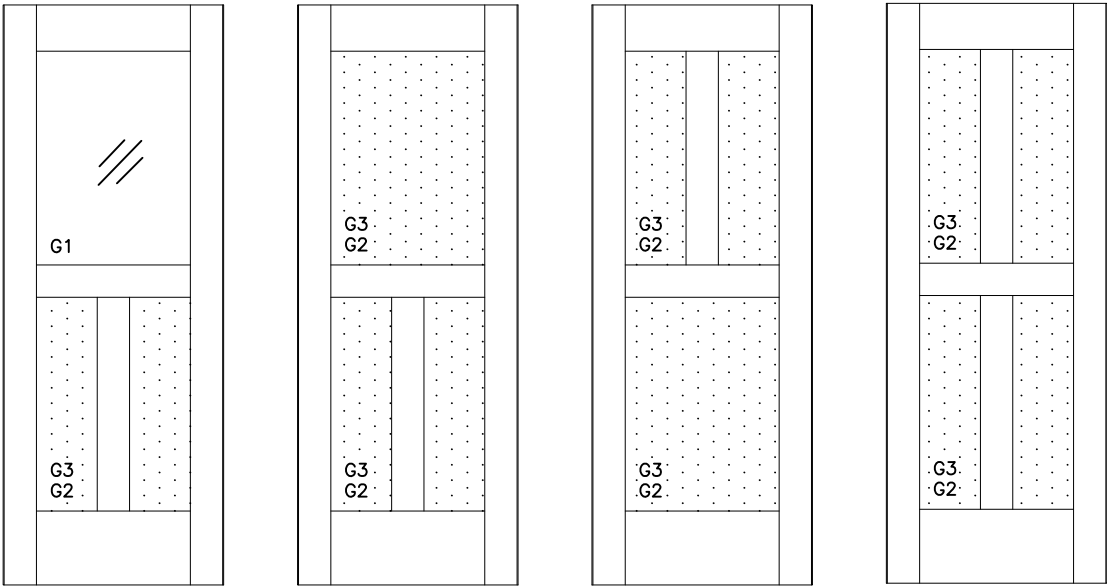


OPERABLE PANELS AND SIDELITES,
SEE GLAZING DETAILS ON SHEET 1

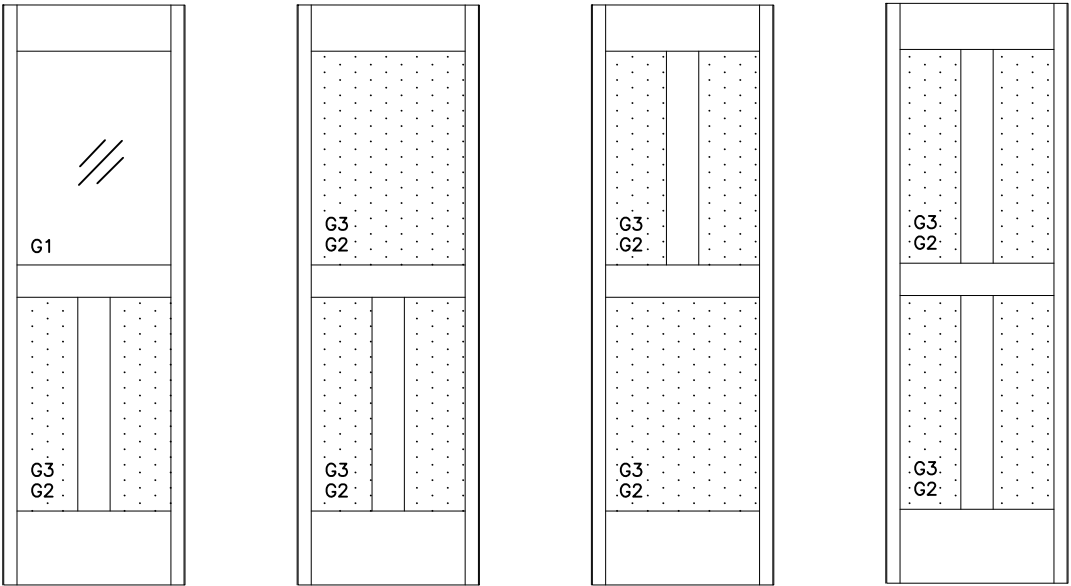


SIDELITES ONLY,
SEE GLAZING DETAILS ON SHEET 1

MAX.
8" O.C. FROM C.L.



OPERABLE PANELS AND SIDELITES,
SEE GLAZING DETAILS ON SHEET 1



SIDELITES ONLY,
SEE GLAZING DETAILS ON SHEET 1



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

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

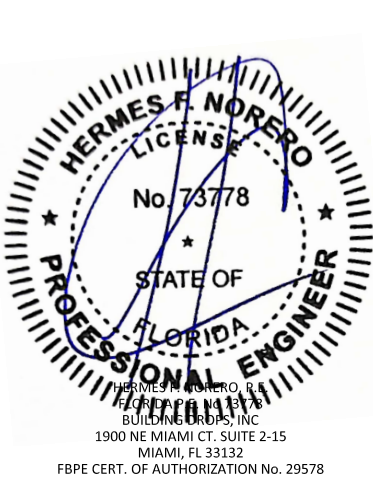
PANEL INFILL COMBINATIONS

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BUILDING DROPS

REMARKS	BY	DATE

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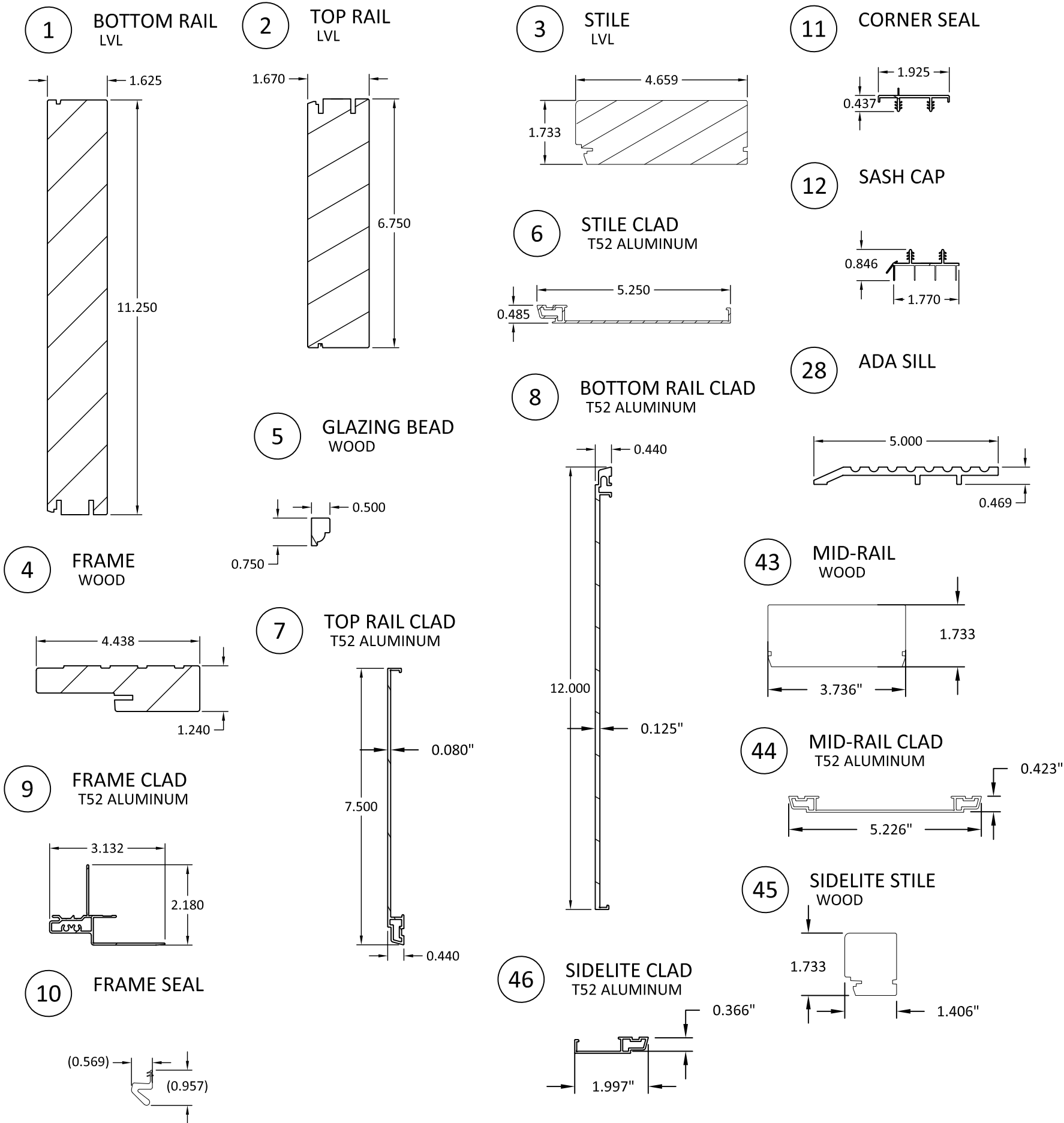


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DWG. #:	FBP003
SHEET:	9

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PARTS		
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
1	BOTTOM RAIL	LVL
2	TOP RAIL	LVL
3	STILE	LVL
4	JAMB	WOOD
5	GLAZING BEAD	WOOD
6	STILE CLAD	T52 ALUMINUM
7	TOP RAIL CLAD	T52 ALUMINUM
8	BOTTOM RAIL CLAD	T52 ALUMINUM
9	FRAME CLAD	T52 ALUMINUM
10	FRAME SEAL	AMESBURY GROUP
11	CORNER SEAL	AMESBURY GROUP
12	SASH CAP	AMESBURY GROUP
13	SWEEP	AMESBURY GROUP
14	PILE SEAL	ULTRAFAB, INC.
15	SILICONE	NOVAFLEX M150
16	SILICONE	NOVAFLEX M400
17	SETTING BLOCK	.15"x.5"x2" 85 DUROMETER
18	SILL SCREW	#10 X 2 TORX FH

PARTS			
ITEM #	ITEM DESCRIPTION	WHERE USED	SUPPLIER/ NOTES
19	#7 X 1 1/2" SCREW	2 EA. CORNER, 1 AT SILL	FRONTLINE
20	#8 X 1 1/2" SCREW	EA. RAIL TO STILE	FRONTLINE
21	1 1/8" X 18 BRAD	2" FROM END, 4-6" O.C.	FRONTLINE
22	3/8" X 1/2" STAPLE	4" FROM END, 10-12 O.C.	FRONTLINE
23	5/8" X 4 3/4" DOWEL	7/8" FROM EDGE, 2" O.C.	FRONTLINE
24	3/4" SEASTORM	CARDINAL	FRONTLINE
25	#7 X 2" SCREW	FRAME CORNERS	FRONTLINE
26	1/8" x 1/4" TAPE	ADHESIVE APPLICATIONS	FRONTLINE
27	CYLINDER DOGGING	VON DUPRIN	VON DUPRIN
28	ADA SILL	HYDRO	FRONTLINE
29	4.5" HINGE	PENROD	FRONTLINE
30	HH-9954 MULLION ASSY	VON DUPRIN	VON DUPRIN
31	#14 x 1 1/2" PFH SCREW	4 - HINGE INTO SASH	FRONTLINE
32	1/4-20 x 3/4" PFH SCREW	2 - HINGE INTO JAMB	FRONTLINE
33	#14 x 3" PFH SCREW	2 - HINGE INTO JAMB	FRONTLINE
34	M6 x 1mm TNUT	McMASTER CARR	FRONTLINE
35	98/9957 3-POINT LATCHING EXIT DEVICE	VON DUPRIN	VON DUPRIN
36	2" x 8" x .025" THK GALVANIZED STEEL REINFORCEMENT STRIP	ALL METAL STAMPING	FRONTLINE
37	#10 x 1 1/2" PHFH	STRIKE TO WOOD FRAME	VON DUPRIN
38	#12 X 3" PHFH	MULLION FITTING	VON DUPRIN
39	#10-24 X 3/4" PHFH	STRIKE TO MULLION	VON DUPRIN
40	304L STRIKE (SILL)	EPOXY INTO SILL	VON DUPRIN
41	HH9954 MULLION FITTING	TOP AND BOTTOM OF MULL POST	VON DUPRIN
42	499 STRIKE (HEAD)	HEAD/MULLION STRIKE	VON DUPRIN
43	MID-RAIL	-	WOOD
44	MID-RAIL CLAD	-	T52 ALUMINUM
45	SIDELITE STILE	-	WOOD
46	SIDELITE CLAD	-	T52 ALUMINUM
47	4954 MULLION FITTING	TOP AND BOTTOM OF MULL POST	VON DUPRIN



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

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

BILL OF MATERIALS
AND COMPONENTS

PREPARED BY:

BUILDING DROPS, INC.

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

PH: (954)395-8478

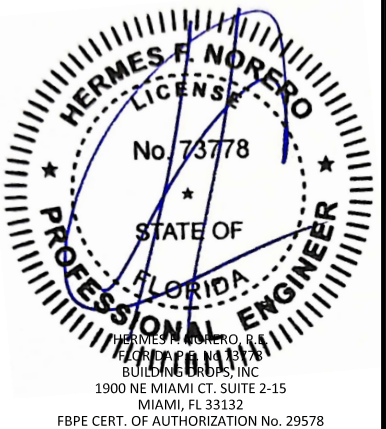
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