

REILLY ARCHITECTURAL

RWD45 OUTSWING CASEMENT WINDOW

(WZ3)(IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ASTM E1886-19
 - ASTM E1996-20
 - ASTM E330-14(21)
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCTS IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- WINDOW FRAME MATERIAL: MAHOGANY
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAILS.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 5.
- 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 1/2 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:
 - 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 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.

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DESIGN PRESSURE RATING (PSF)				
HARDWARE	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
A	80"	96"	+/- 70 PSF	LARGE & SMALL MISSILE IMPACT
B			+/- 40 PSF	

*NOTE: SEE SHEET 2 & 3 FOR ALTERNATE SIZES AND PRESSURES

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RWD45 OUTSWING
CASEMENT WINDOW
(WZ3) (IMPACT)
GENERAL NOTES &
INSTALLATION NOTES

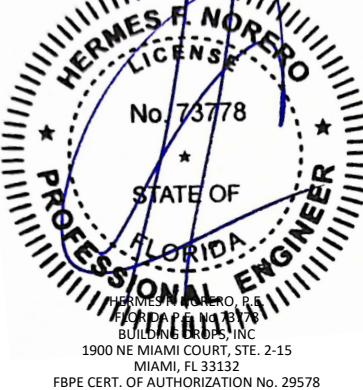
PREPARED BY:
BUILDING DROPS, INC.
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Reason: I am approving this document
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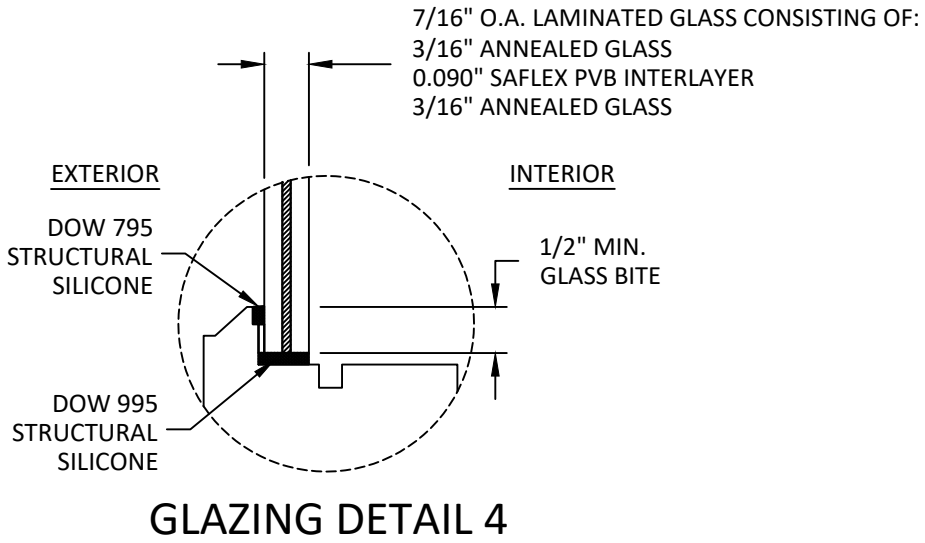
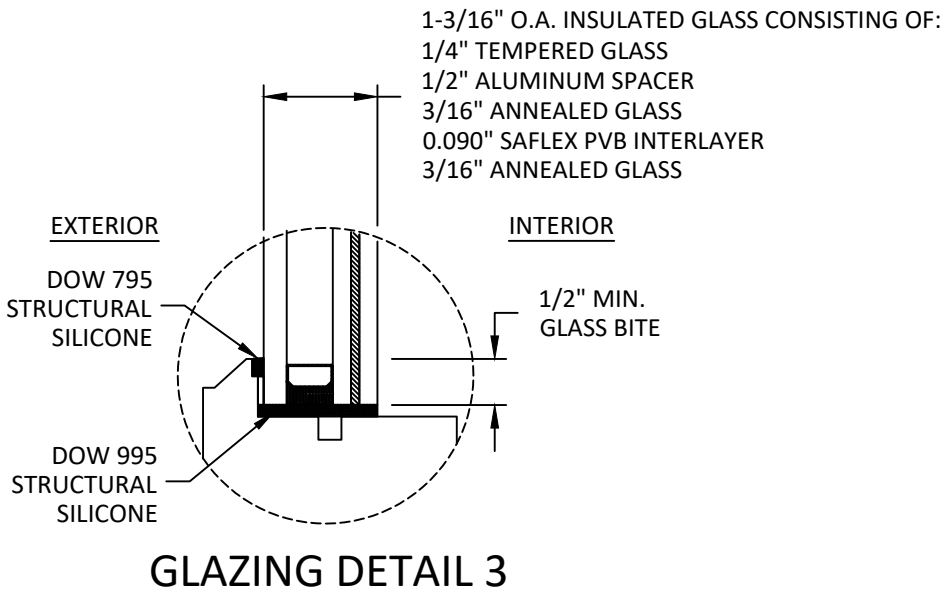
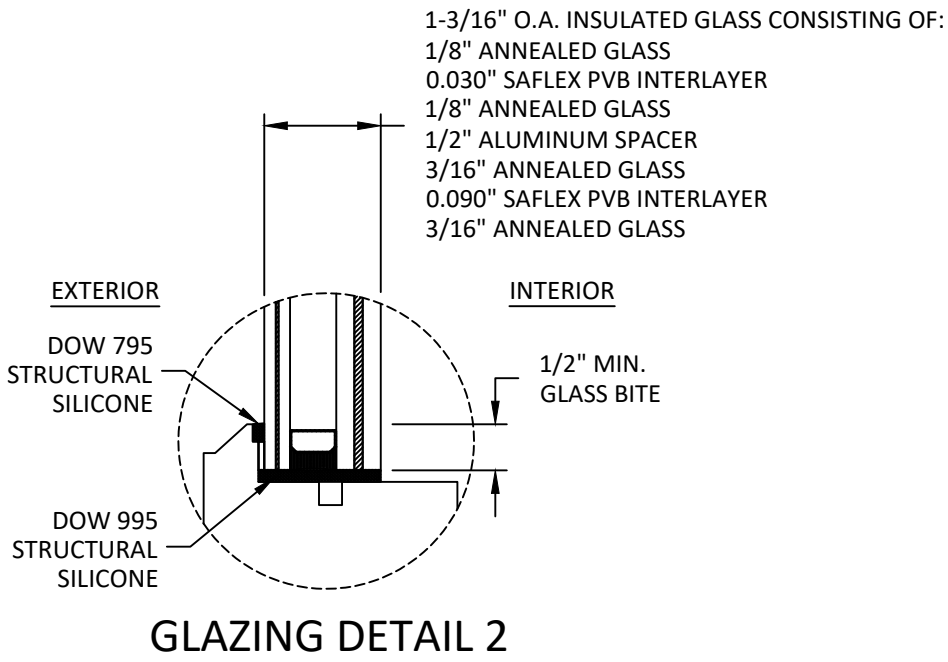
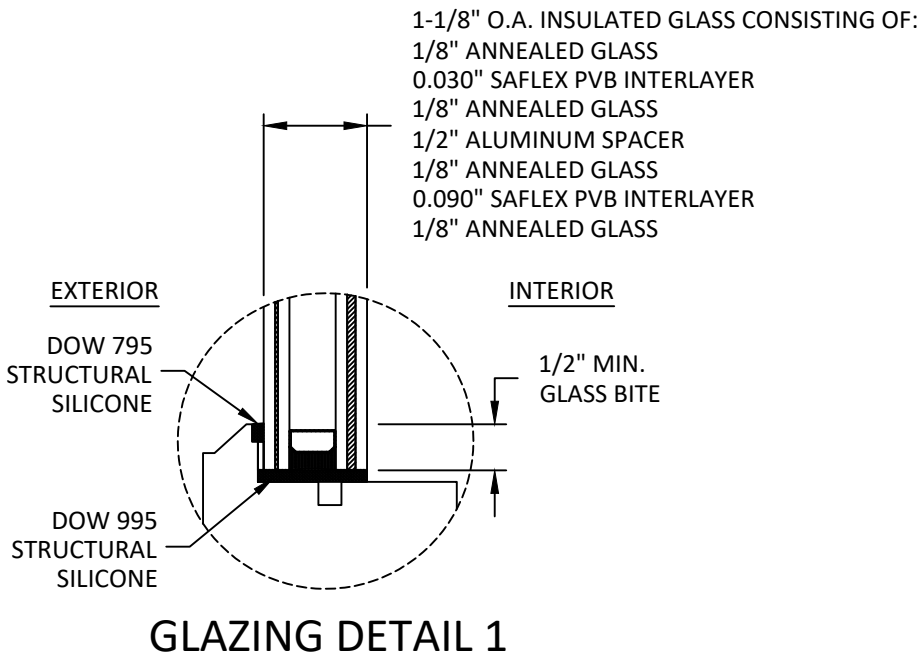
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- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC, TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 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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TITLE: RWD45 OUTSWING CASEMENT WINDOW (WZ3) (IMPACT)

GLAZING DETAILS

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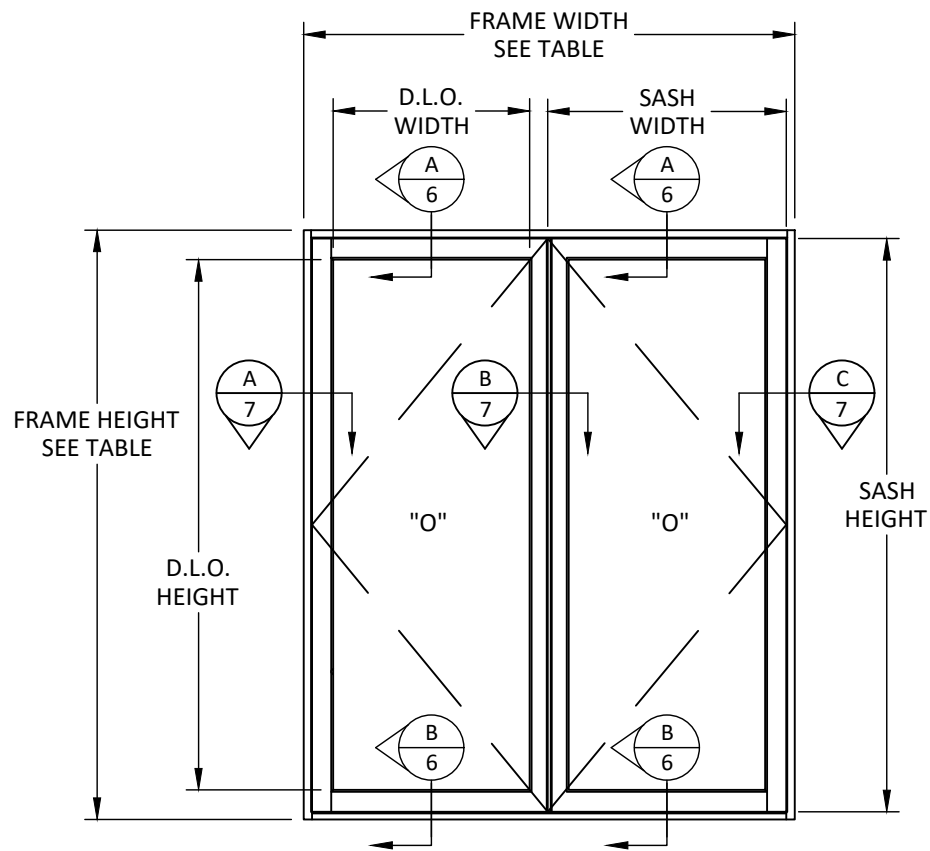
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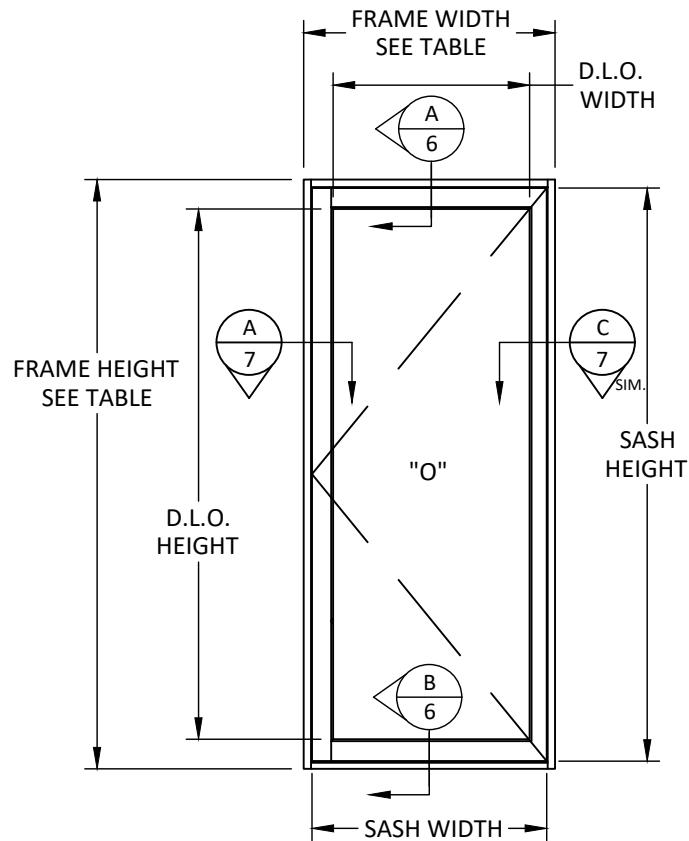
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ELEVATION
FRENCH CASEMENT

FRENCH CASEMENT SIZE NOTES:
D.L.O. WIDTH = FRAME WIDTH/2 - 8.0"
D.L.O. HEIGHT = FRAME HEIGHT - 9.625"

SASH WIDTH = FRAME WIDTH/2 - 1.625"
SASH HEIGHT = FRAME HEIGHT - 2.625"



ELEVATION
SINGLE CASEMENT

SINGLE CASEMENT SIZE NOTES:
D.L.O. WIDTH = FRAME WIDTH - 8.0"
D.L.O. HEIGHT = FRAME HEIGHT - 9.625"

SASH WIDTH = FRAME WIDTH - 2.75"
SASH HEIGHT = FRAME HEIGHT - 2.625"

FRENCH CASEMENT DESIGN PRESSURE TABLE (PSF)			
FRAME DIMENSIONS		HARDWARE A	HARDWARE B
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	POS. (+) / NEG. (-)	POS. (+) / NEG. (-)
32	60	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		70.0	40.0
62		70.0	40.0
68		70.0	40.0
74		70.0	40.0
80		70.0	40.0
32	66	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		70.0	40.0
62		70.0	40.0
68		70.0	40.0
74		70.0	40.0
80		70.0	40.0
32	72	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		70.0	40.0
62		70.0	40.0
68		70.0	40.0
74		70.0	40.0
80		70.0	40.0
32	78	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		70.0	40.0
62		70.0	40.0
68		70.0	40.0
74		70.0	40.0
80		70.0	40.0
32	84	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		70.0	40.0
62		70.0	40.0
68		70.0	40.0
74		70.0	40.0
80		70.0	40.0

- NOTES:
- FOR SINGLE CASEMENT ALLOWABLE SIZES TAKE FRAME WIDTH FROM THE TABLES ABOVE AND DIVIDE BY 2.
 - HARDWARE TYPE A - HAS TEN (10) CAM LOCKS TOTAL FOR FRENCH CASEMENTS AND SIX (6) CAM LOCKS TOTAL FOR SINGLE CASEMENTS.
 - HARDWARE TYPE B - HAS SIX (6) CAM LOCKS TOTAL FOR FRENCH CASEMENTS AND FOUR (4) CAM LOCKS TOTAL FOR SINGLE CASEMENTS.

FRENCH CASEMENT DESIGN PRESSURE TABLE (PSF)			
FRAME DIMENSIONS		HARDWARE A	HARDWARE B
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	POS. (+) / NEG. (-)	POS. (+) / NEG. (-)
32	90	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		70.0	40.0
62		70.0	40.0
68		70.0	40.0
74		70.0	40.0
80		70.0	40.0
32	96	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		70.0	40.0
62		70.0	40.0
68		70.0	40.0
74		70.0	40.0
80		70.0	40.0
32	102	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		70.0	40.0
62		70.0	40.0
68		66.9	38.2
74		62.0	35.4
32	108	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		70.0	40.0
56		67.2	38.4
62		61.1	34.9
68		56.1	32.1
32	114	70.0	40.0
38		70.0	40.0
44		70.0	40.0
50		63.5	36.3
56		57.0	32.6
62		51.8	29.6
32	120	70.0	40.0
38		70.0	40.0
44		61.5	35.2
50		54.4	31.1
56		48.8	27.9
62		44.3	25.3

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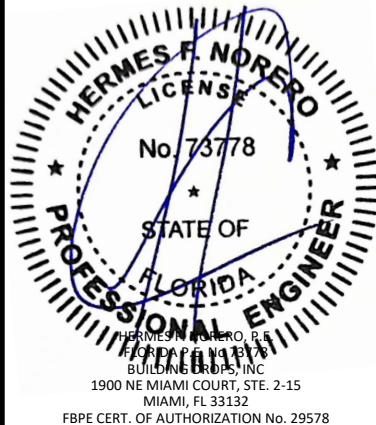
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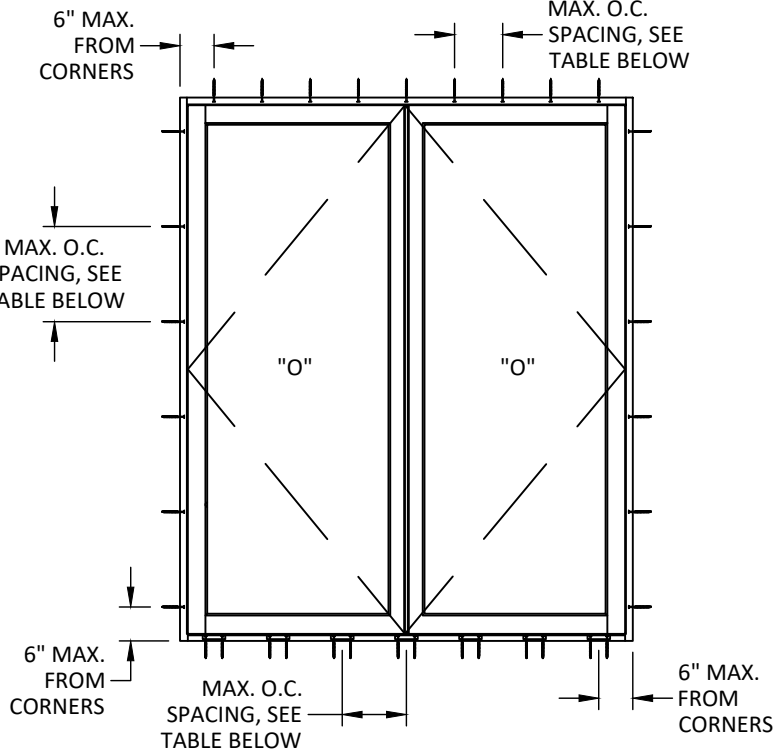
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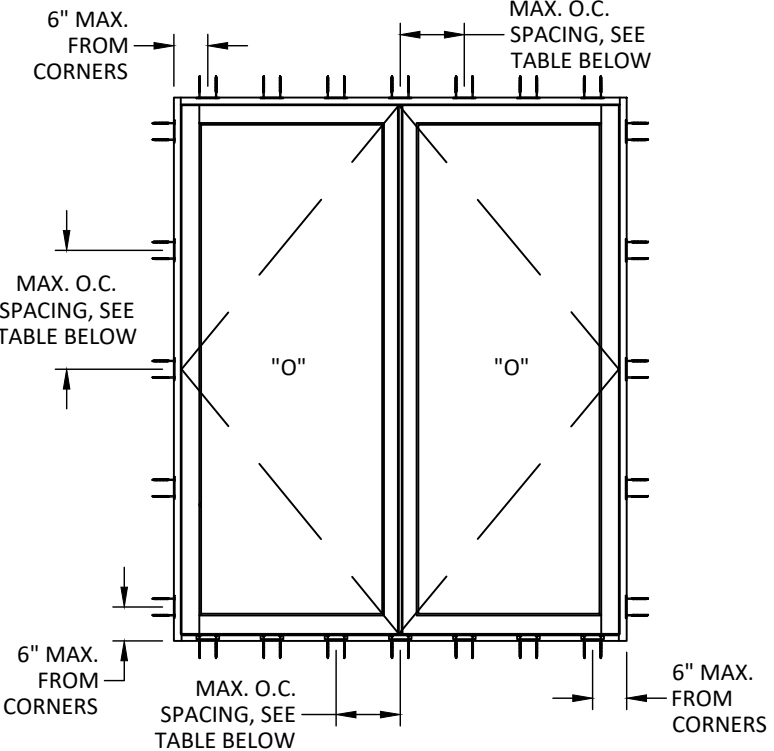
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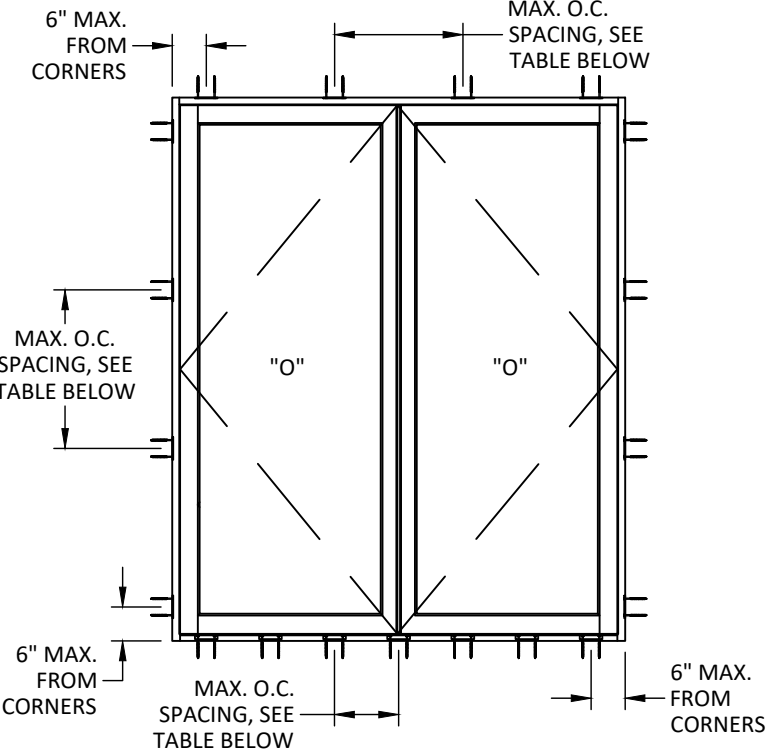
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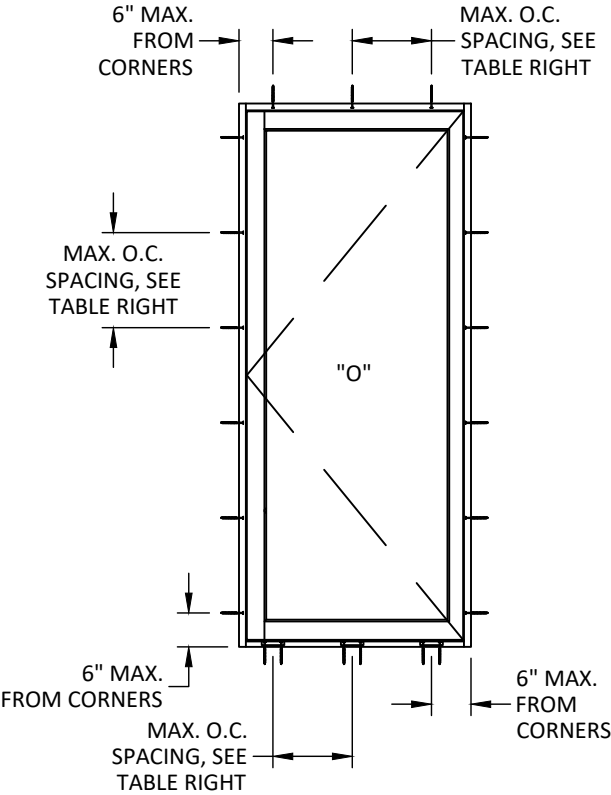
ANCHOR LAYOUT
THROUGH FRAME - HEAD & JAMBS
ANGLE CLIP - SILL



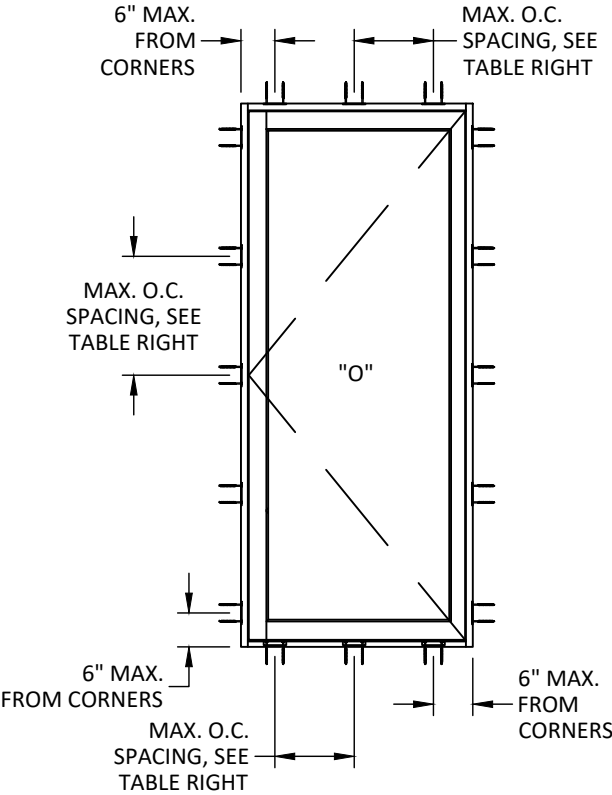
ANCHOR LAYOUT
FLAT CLIP - HEAD & JAMBS
ANGLE CLIP - SILL



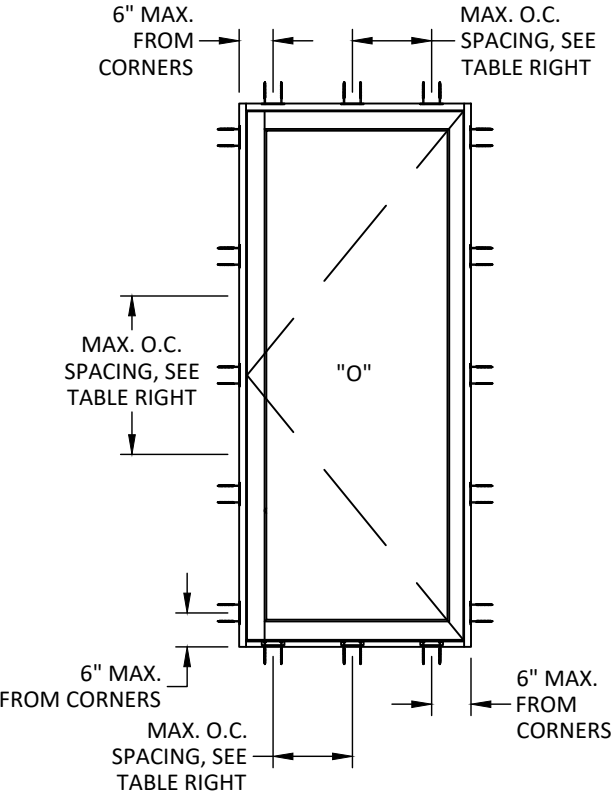
ANCHOR LAYOUT
ANGLE CLIP - HEAD & JAMBS
ANGLE CLIP - SILL



ANCHOR LAYOUT
THROUGH FRAME - HEAD & JAMBS
ANGLE CLIP - SILL



ANCHOR LAYOUT
FLAT CLIP - HEAD & JAMBS
ANGLE CLIP - SILL



ANCHOR LAYOUT
ANGLE CLIP - HEAD & JAMBS
ANGLE CLIP - SILL

DOUBLE DOOR ANCHOR SPACING TABLE				
INSTALLATION METHOD	DESIGN PRESSURE	HEAD	JAMBS	SILL
THROUGH FRAME	$X \leq 40$ PSF	13-1/2"	28"	17"
	$40 < X$ PSF	8-1/2"	16-3/4"	11-3/8"
FLAT CLIP	$X \leq 40$ PSF	17"	28"	17"
	$40 < X$ PSF	11-3/8"	21"	11-3/8"
ANGLE CLIP	$X \leq 40$ PSF	22-5/8"	28"	17"
	$40 < X$ PSF	22-5/8"	28"	11-3/8"

SINGLE DOOR ANCHOR SPACING TABLE				
INSTALLATION METHOD	DESIGN PRESSURE	HEAD	JAMBS	SILL
THROUGH FRAME	$X \leq 40$ PSF	14"	28"	14"
	$40 < X$ PSF	14"	16-3/4"	14"
FLAT CLIP	$X \leq 40$ PSF	14"	28"	14"
	$40 < X$ PSF	14"	21"	14"
ANGLE CLIP	$X \leq 40$ PSF	14"	28"	14"
	$40 < X$ PSF	14"	28"	14"

NOTE: SILL USES ITS OWN ANGLE CLIP REGARDLESS OF INSTALLATION METHOD AT THE HEAD/JAMBS.

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RWD45 OUTSWING
CASEMENT WINDOW
(WZ3) (IMPACT)

ANCHOR LAYOUTS

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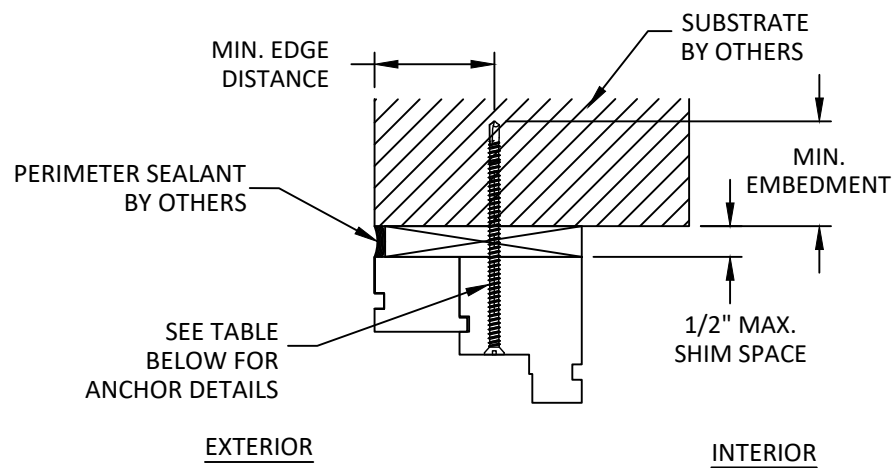
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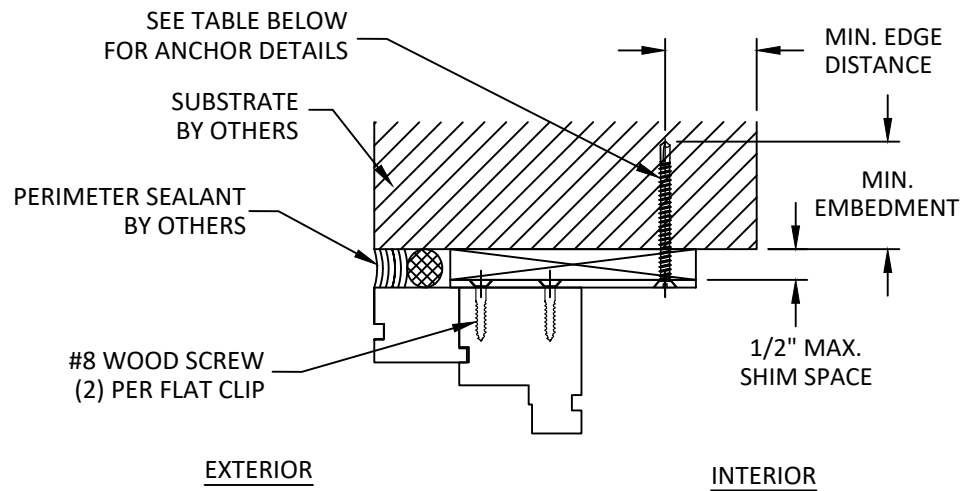
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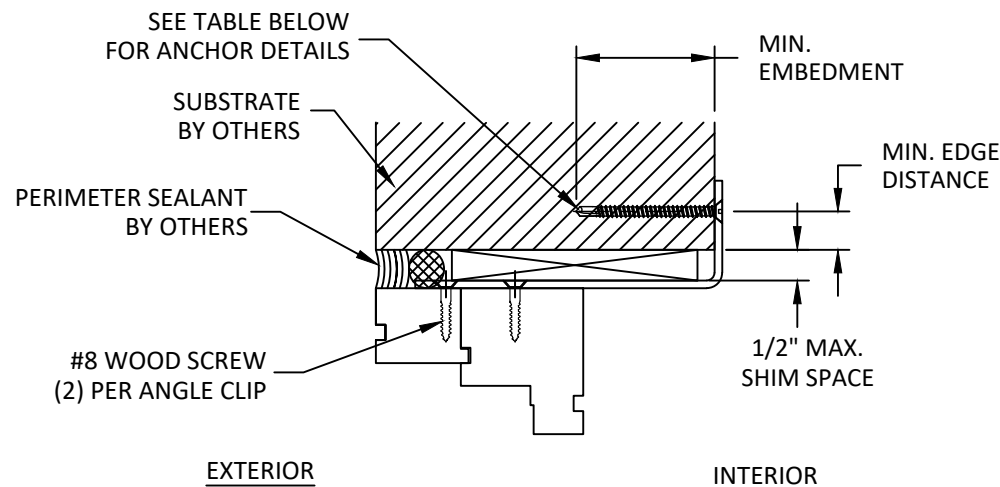
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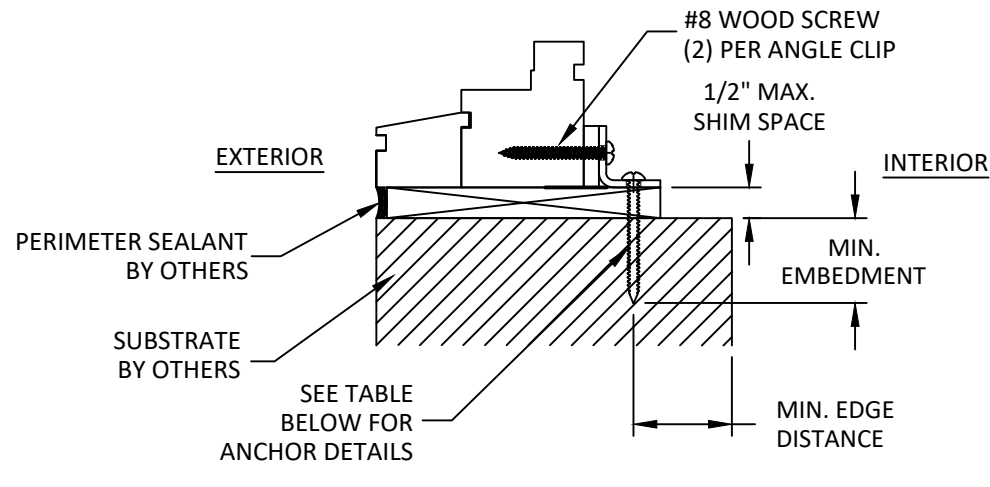
A
5 VERTICAL SECTION
HEAD - THROUGH FRAME
JAMB SIMILAR



B
5 VERTICAL SECTION
HEAD - FLAT CLIP
JAMB SIMILAR



C
5 VERTICAL SECTION
HEAD - ANGLE CLIP
JAMB SIMILAR



D
5 VERTICAL SECTION
SILL - ANGLE CLIP

ANCHOR SCHEDULE					
METHOD	QUANTITY PER LOCATION	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	1	WOOD: MIN. SG = 0.55	#12 WOOD SCREW	1.50"	0.75"
		METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#12 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"
		CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.25"	2.50"
		MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	2.50"
FLAT CLIP/ ANGLE CLIP	2	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.50"	0.75"
		METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#10 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"
		CONCRETE: f'c=3000PSI	3/16" ITW TAPCON	1.25"	2.00"
		MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1.00"	2.00"

ANCHOR SCHEDULE - SILL CLIP (OPTIONAL)					
METHOD	QUANTITY PER LOCATION	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
SILL CLIP	2	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.50"	0.75"
		METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#10 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"
		CONCRETE: f'c=3000PSI	3/16" ITW TAPCON	1.25"	2.00"
		MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1.00"	2.00"

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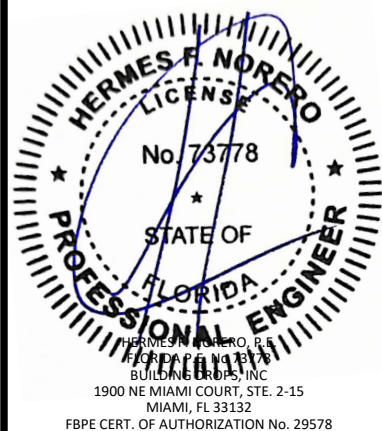
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CASEMENT WINDOW
(WZ3) (IMPACT)
ANCHOR DETAILS &
ANCHOR SCHEDULE

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REMARKS	BY	DATE
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FL #: **FL47454**

DATE: **04.01.2025**

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

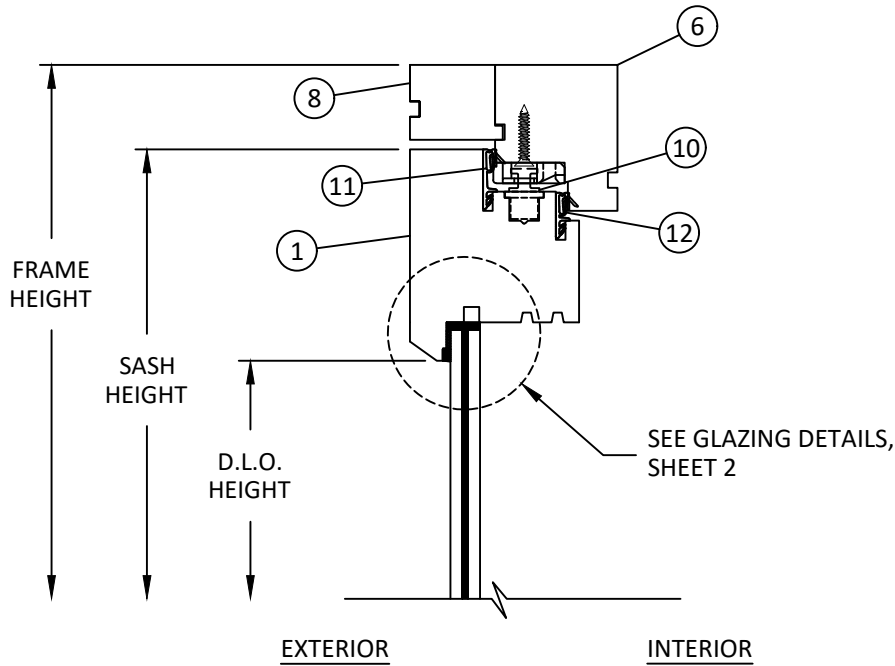
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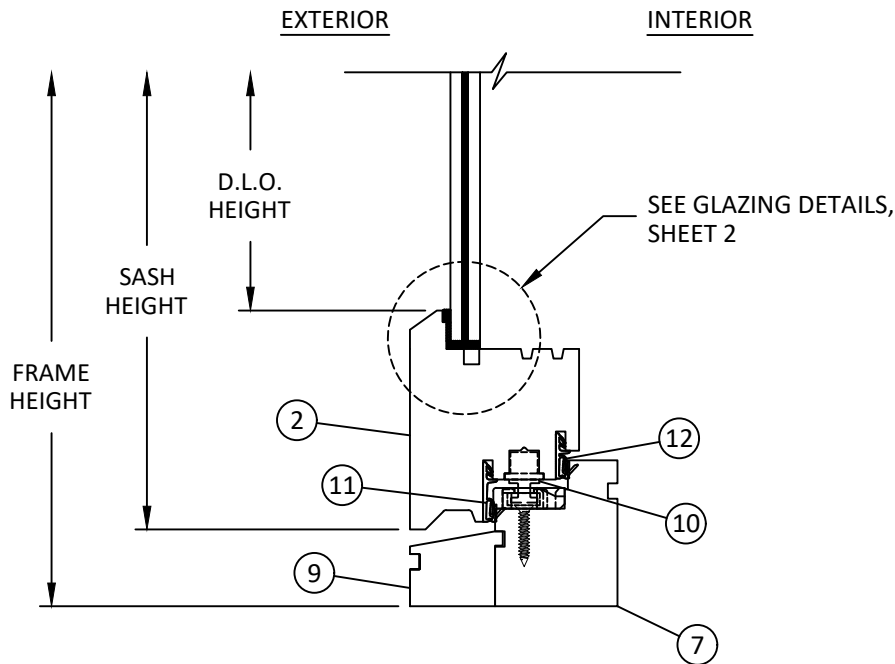
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OF 8

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A
6 VERTICAL SECTION
HEAD



B
6 VERTICAL SECTION
SILL

REILLY ARCHITECTURAL

901 Burman Blvd, Building 701 Calverton, NY 11933
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TITLE: RWD45 OUTSWING
CASEMENT WINDOW
(WZ3) (IMPACT)

VERTICAL SECTIONS

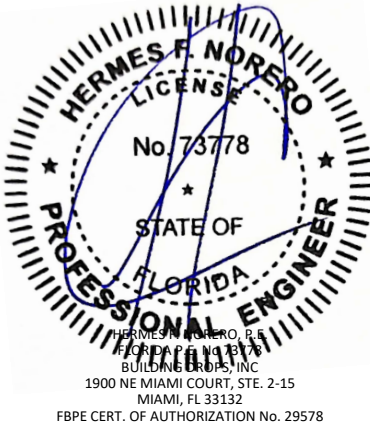
PREPARED BY: BUILDING DROPS, INC.

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



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DATE: **04.01.2025**

DWG. BY: SH	CHK. BY: HFN
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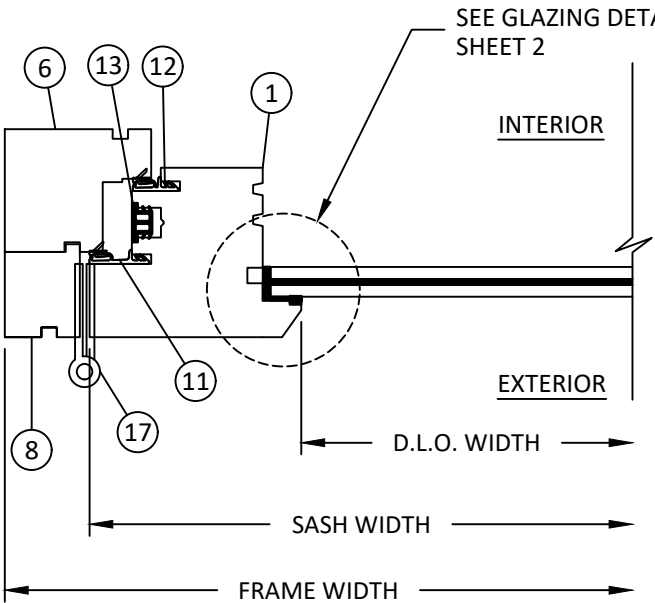
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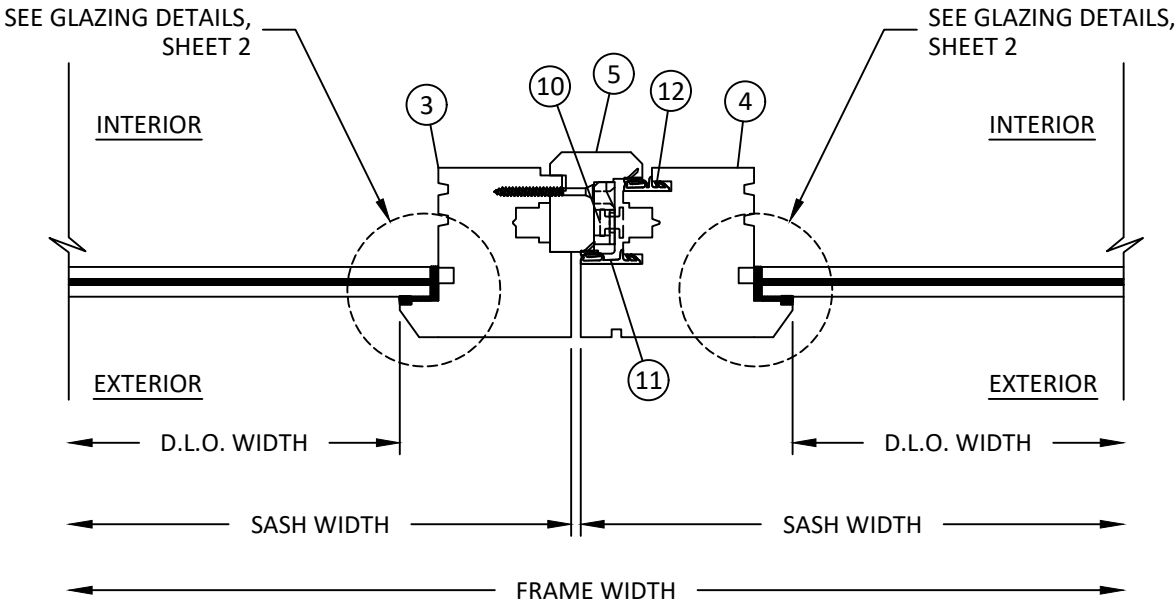
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OF 8

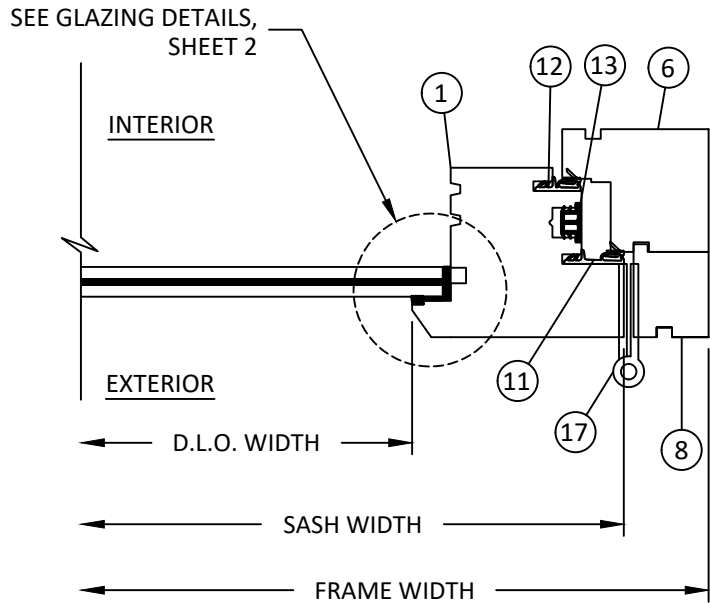
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A HORIZONTAL SECTION
7 JAMB



B HORIZONTAL SECTION
7 MEETING STILE



C HORIZONTAL SECTION
7 JAMB

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RWD45 OUTSWING
CASEMENT WINDOW
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

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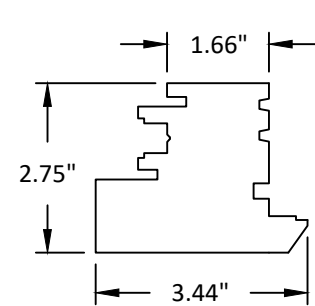
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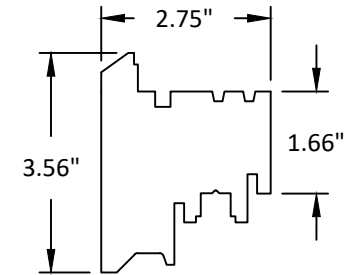
FL #:	FL47454
DATE:	04.01.2025
DWG. BY:	SH
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	RWD014
SHEET:	7
REV.	A

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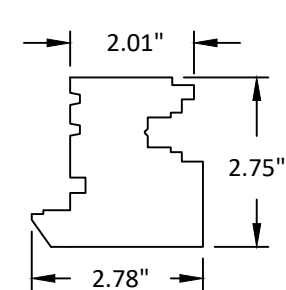
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ITEM	DESCRIPTION	MATERIAL	MANUFACTURER
1	STILE/TOP RAIL	MAHOGANY	REILLY
2	BOTTOM RAIL	MAHOGANY	REILLY
3	MEETING STILE	MAHOGANY	REILLY
4	MEETING STILE	MAHOGANY	REILLY
5	ASTRAGAL	MAHOGANY	REILLY
6	JAMB/HEAD	MAHOGANY	REILLY
7	SILL	MAHOGANY	REILLY
8	JAMB/HEAD EXTENSION	MAHOGANY	REILLY
9	SILL EXTENSION	MAHOGANY	REILLY
10	MULTI-POINT LOCK	STEEL	VARIES
11	WEATHERSTRIP	SILICONE	DEVENTER
12	WEATHERSTRIP	SILICONE	DEVENTER
13	WEATHERSTRIP	SILICONE	DEVENTER
14	FLAT CLIP	ALUMINUM	VARIES
15	ANGLE CLIP	304 S.S.	VARIES
16	SILL ANGLE CLIP	304 S.S.	VARIES
17	HINGE	BRASS	MERIT



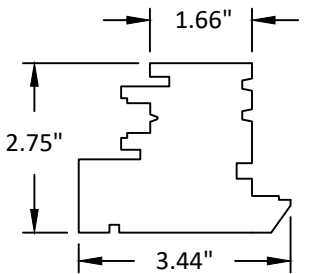
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MAHOGANY



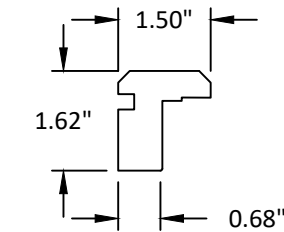
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MAHOGANY



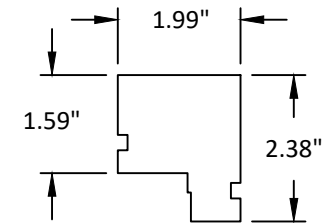
3 MEETING STILE
MAHOGANY



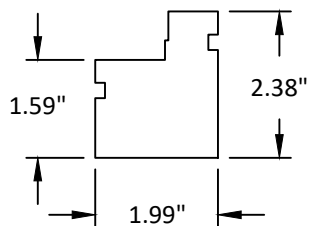
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MAHOGANY



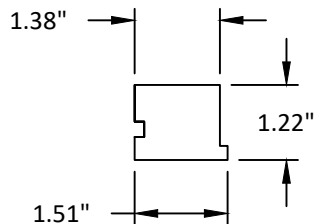
5 ASTRAGAL
MAHOGANY



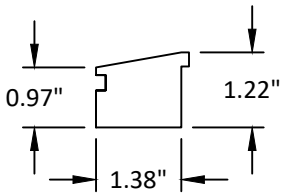
6 JAMB/HEAD
MAHOGANY



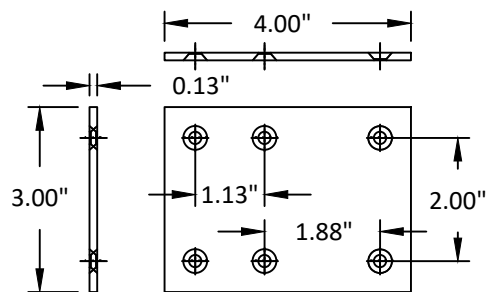
7 SILL
MAHOGANY



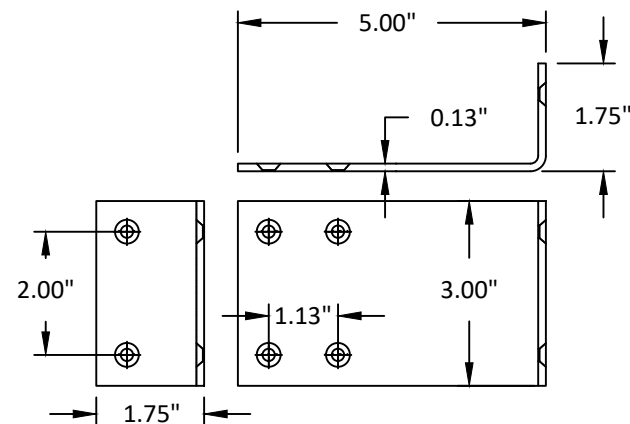
8 JAMB/HEAD EXTENSION
MAHOGANY



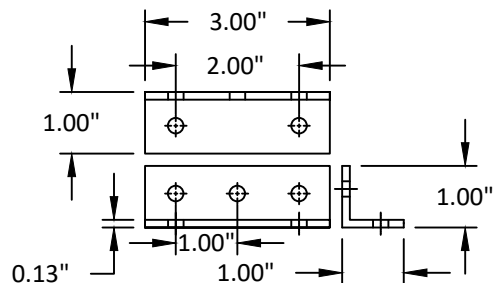
9 SILL EXTENSION
MAHOGANY



14 FLAT CLIP
ALUMINUM



15 ANGLE CLIP
304 STAINLESS STEEL



16 SILL ANGLE CLIP
304 STAINLESS STEEL

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RWD45 OUTSWING
CASEMENT WINDOW
(WZ3) (IMPACT)

BILL OF MATERIALS &
COMPONENTS

TITLE:

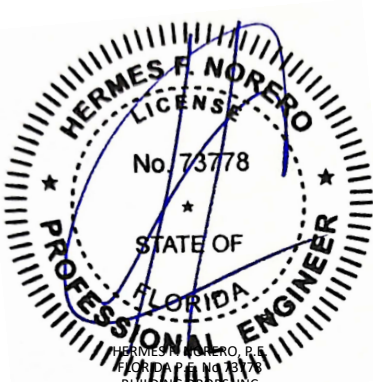
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No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL47454

DATE:

04.01.2025

DWG. BY:

SH

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

RWD014

SHEET:

8

REV.

A

OF 8