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ANDERSEN CORPORATION

400 SERIES HINGED PATIO DOOR - INSWING

(NON-HVHZ)(NON-IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 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.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION THROUGH 2X BUCK USE #10 WOOD SCREW OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR INSTALLATION THROUGH METAL FRAME USE #10 SELF-TAPPING SCREW OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 49 MILS (18 GAUGE)
 - ALUMINUM - ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/ I.S.2/A440-11
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD 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 REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- DOOR FRAME MATERIAL: PONDEROSA PINE OR EQUIVALENT (MIN. SG = 0.40).
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAIL.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
- CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.

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11	MULLION DETAILS

DESIGN PRESSURE RATING			
SIZE (IN.)	DESIGN PRESSURE		MISSILE IMPACT RATING
36 1/8 X 95 1/2	SINGLE PANEL	+40 / -40 PSF	NON-IMPACT
71 1/4 X 95 1/2	DOUBLE PANEL	+40 / -40 PSF	NON-IMPACT
107 1/8 X 95 1/2	TRIPLE PANEL	+40 / -40 PSF	NON-IMPACT



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GENERAL NOTES AND
INSTALLATION NOTES

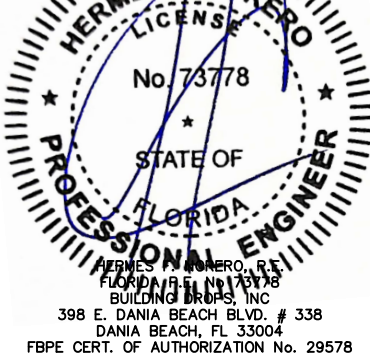
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5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.17.20
8TH FBC CODE CHANGE	SH	5.12.23

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Reason: I am approving this document
Date: 2023.08.14 09:38:21 -0700



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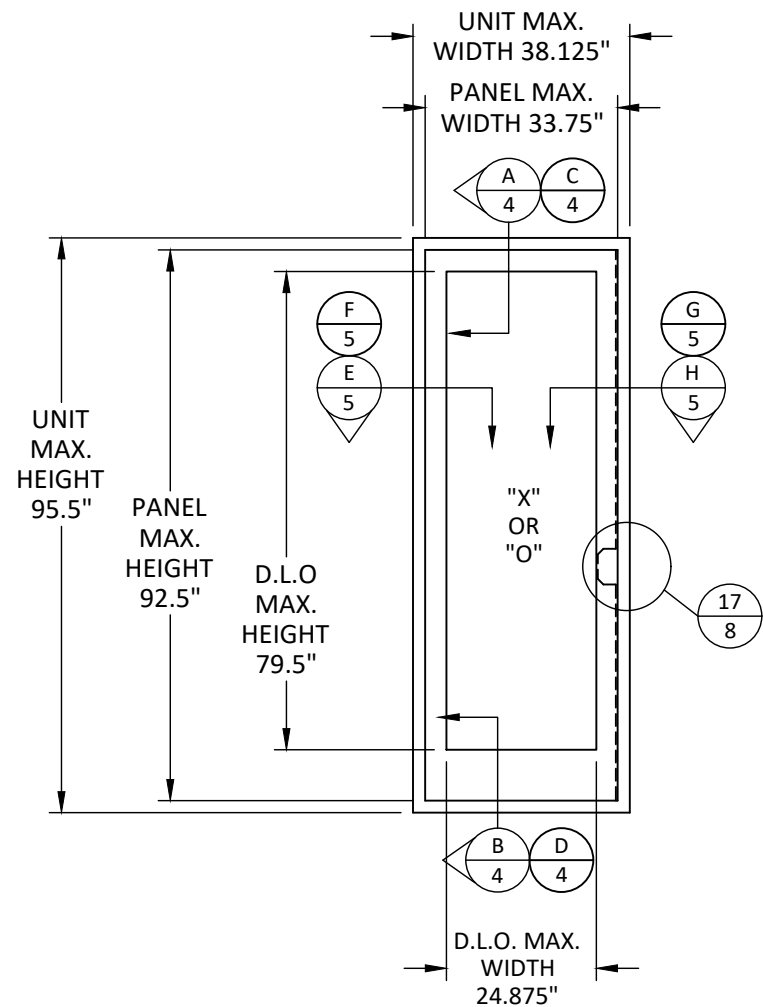
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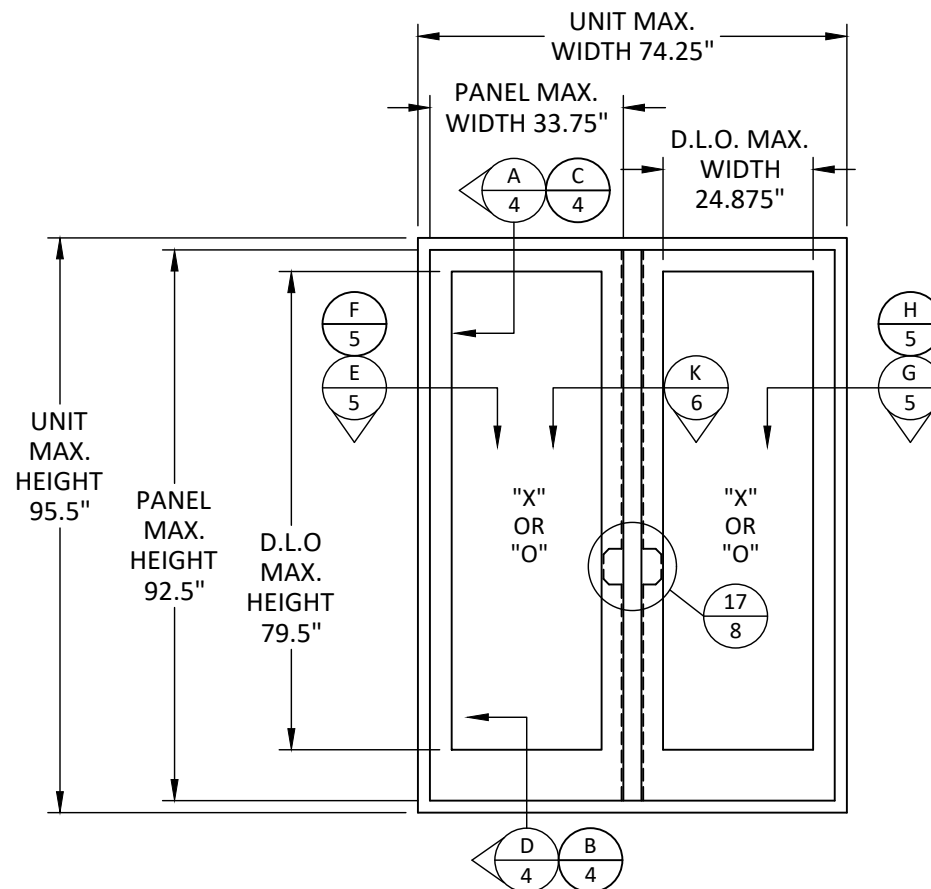
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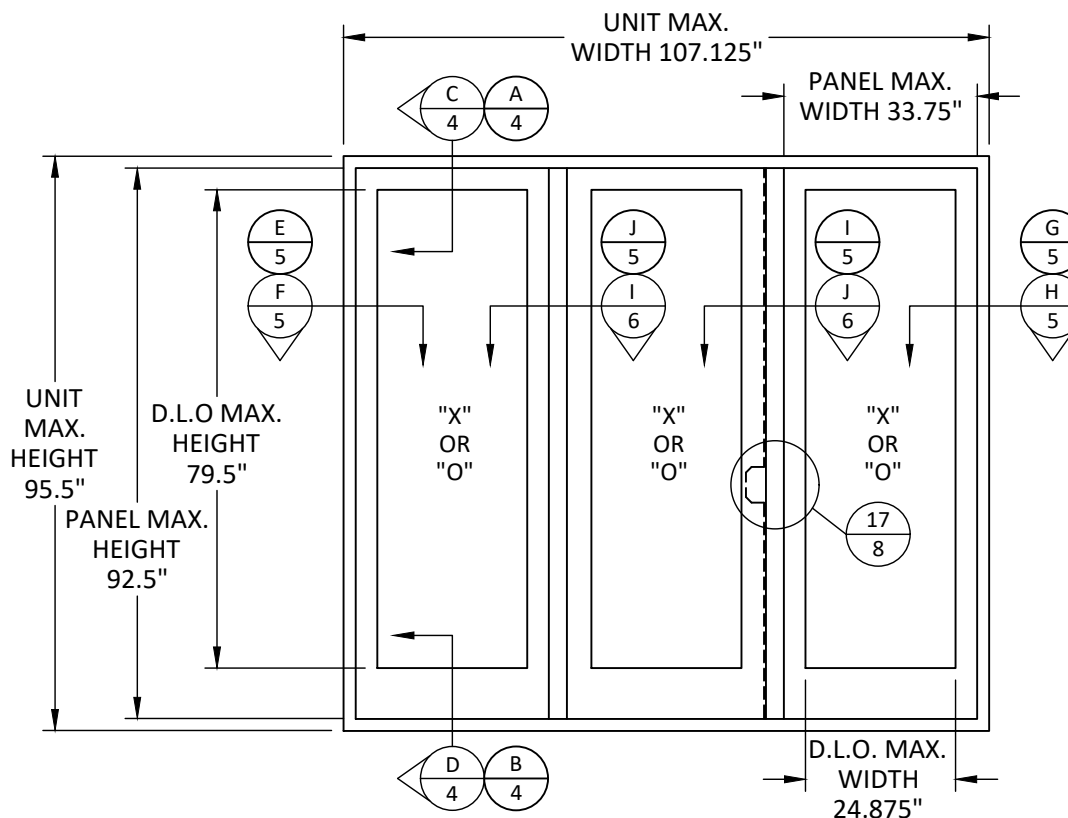
ELEVATION - SINGLE

HARDWARE NOTE:

- 1) DETAIL 17/8, 3-POINT LOCK SYSTEM, APPLICABLE FOR OPERABLE PANELS ONLY.
- 2) THREE (3) HINGES REQUIRED PER HINGE STILE FOR SINGLE OPERABLE PANELS SPACED 10" FROM HEAD/SILL AND AT MIDSPAN.
- 3) FOUR (4) HINGES REQUIRED PER HINGE STILE FOR DOUBLE OPERABLE PANELS SPACED 8" AND 26" ON CENTER UP FROM SILL.



ELEVATION - DOUBLE



**ELEVATION - TRIPLE
OOO OR OXO**



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ELEVATIONS

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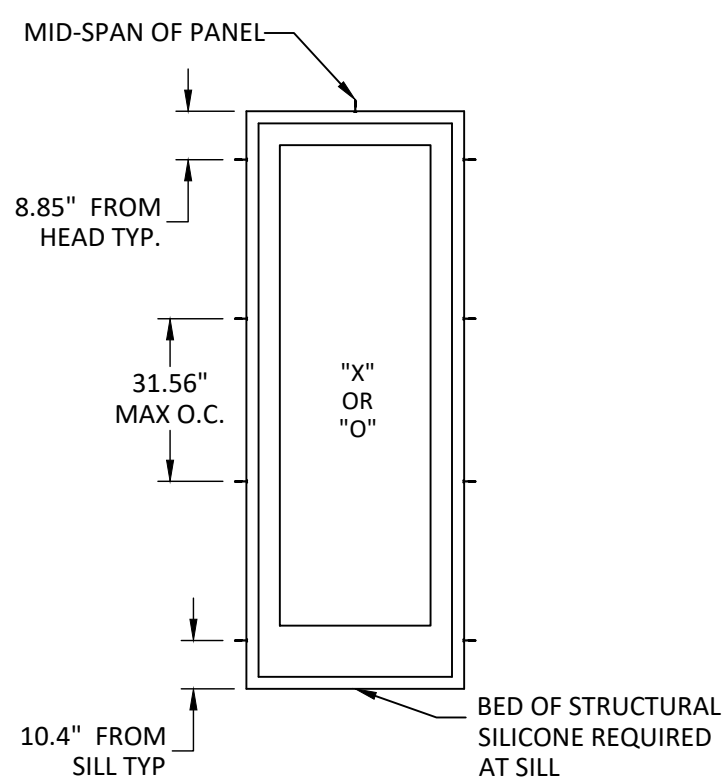
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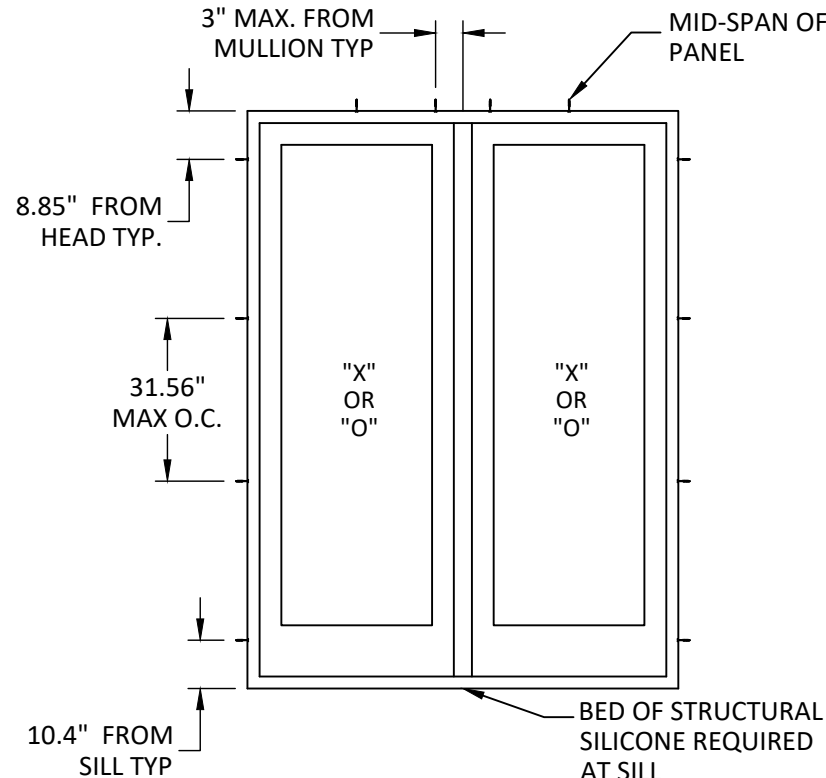
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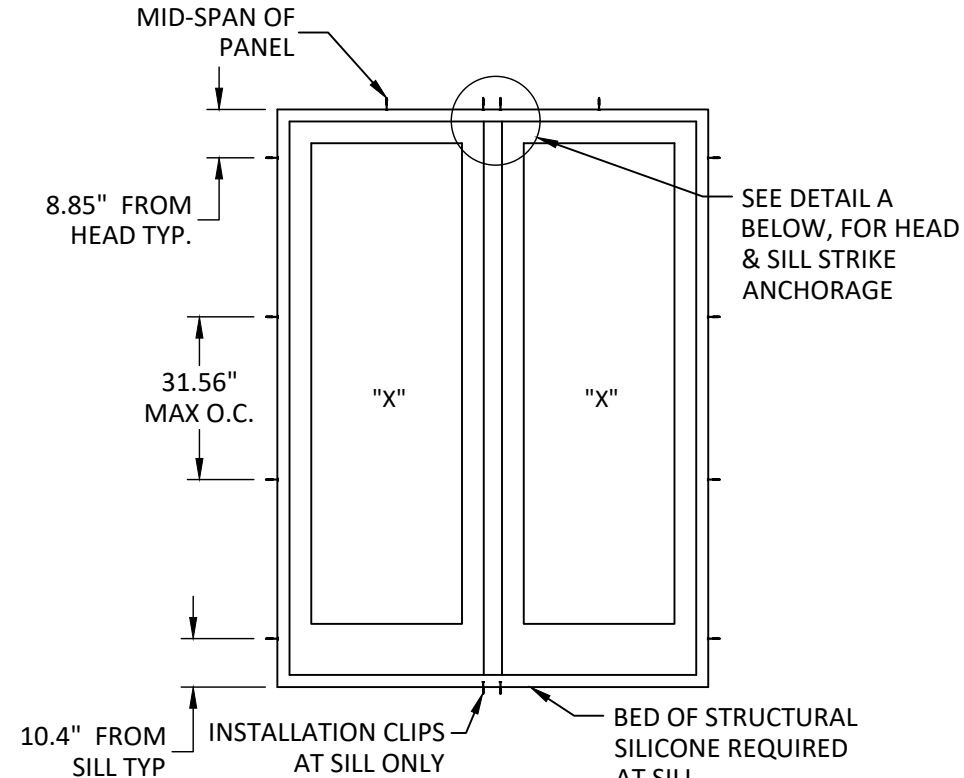
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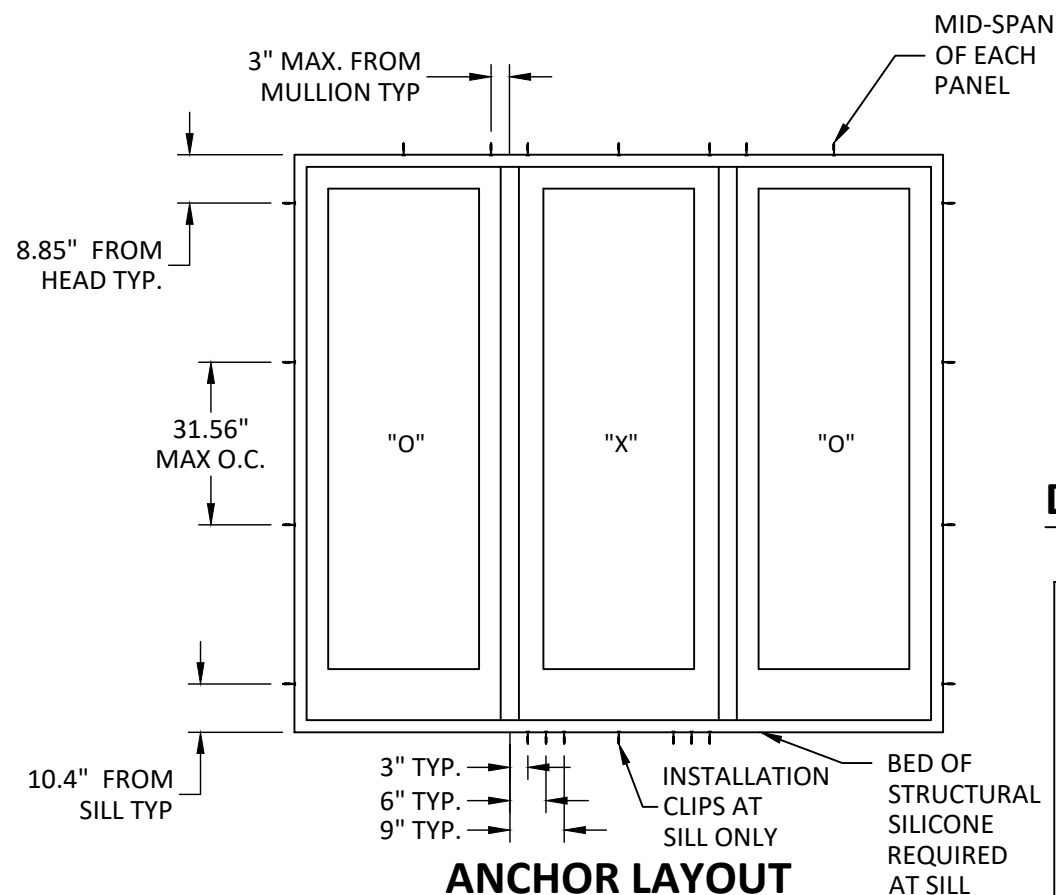
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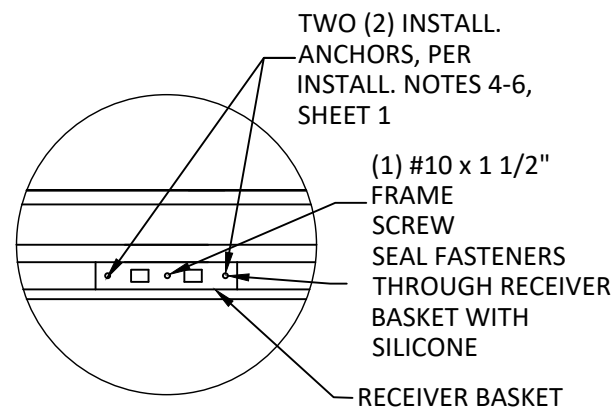
**ANCHOR LAYOUT
DOUBLE
OX, XO, OR OO**



**ANCHOR LAYOUT
DOUBLE
XX**

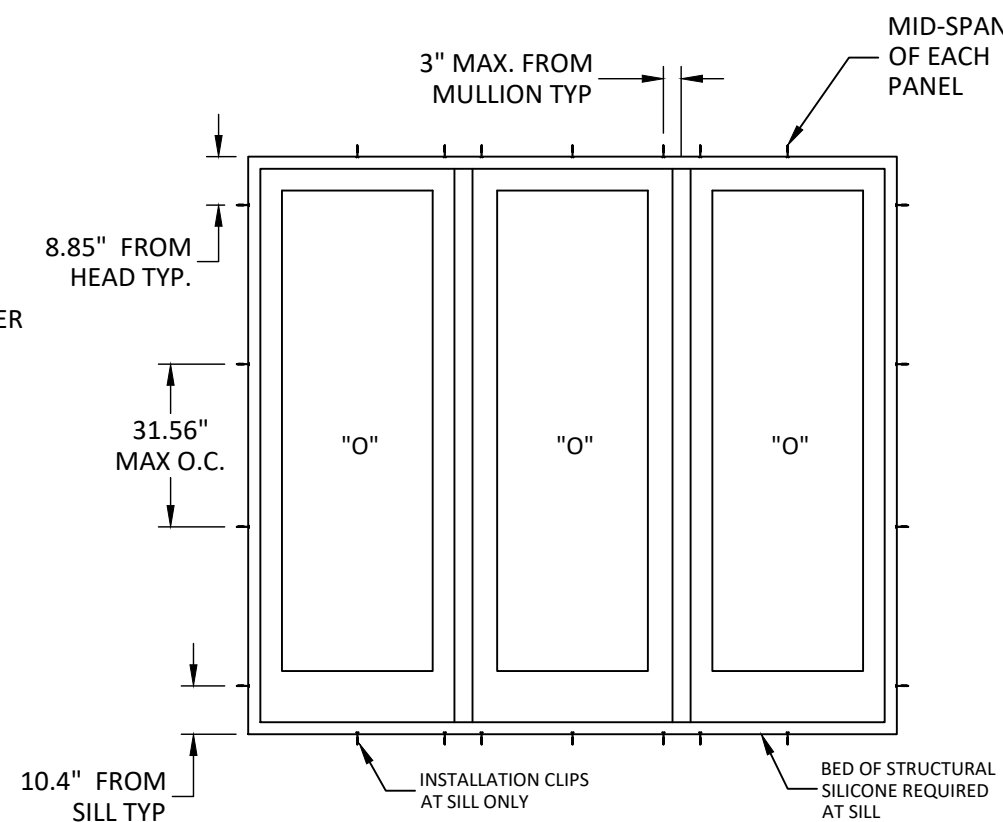


**ANCHOR LAYOUT
TRIPLE OXO**



DETAIL A - HEAD/SILL

- NOTE:**
- 1) FOR SIDE HINGE JAMBS, USE TWO (2) INSTALLATION ANCHORS (PER INSTALLATION NOTES 4-6, SHEET 1) THROUGH EACH HINGE FOR ACTIVE UNITS.
 - 2) FOR SIDE LOCK JAMBS, USE ONE (1) INSTALLATION ANCHOR (PER INSTALLATION NOTES 4-6, SHEET 1) THROUGH TOP/BOTTOM LOCK RECEIVER BASKET & TWO (2) INSTALLATION ANCHORS (PER INSTALLATION NOTES 4-6, SHEET 1) THROUGH CENTER/DEADBOLT LOCK RECEIVER BASKET.
 - 3) ACCEPTABLE STRUCTURAL SILICONES ARE AS FOLLOWS:
 - TREMCO SPECTRUM 2
 - DOW 795
 - PECORA 895
 - GE SILPRUF SCS-2000



**ANCHOR LAYOUT
TRIPLE OOO**



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ANCHOR LAYOUTS

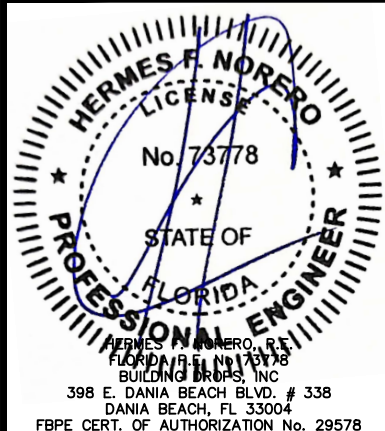
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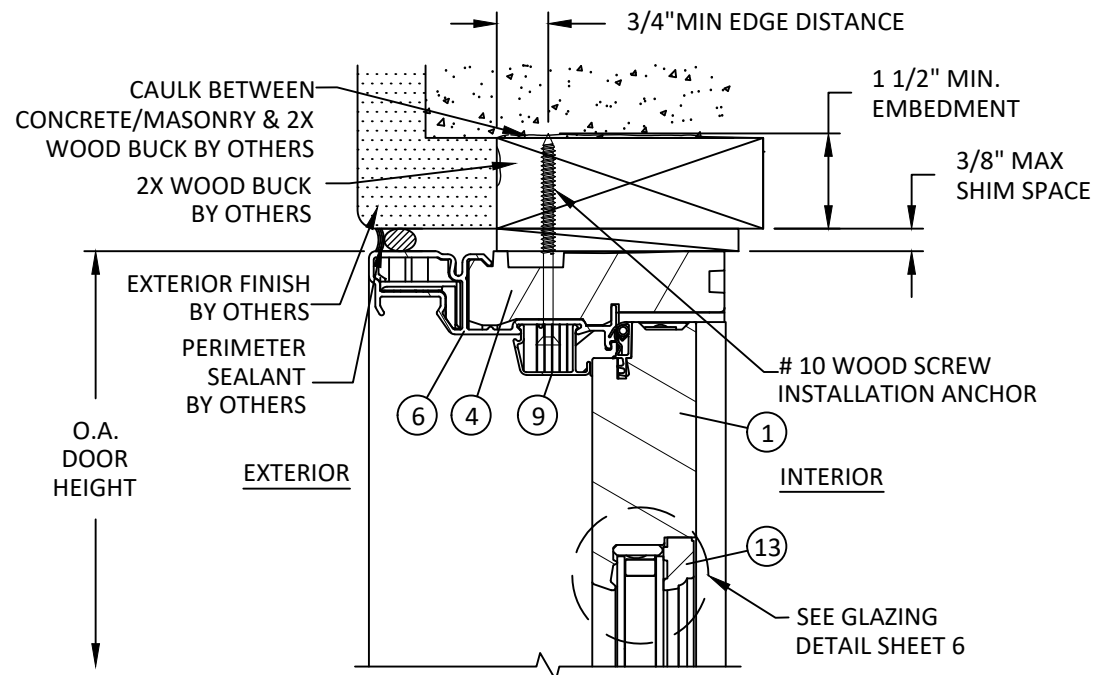
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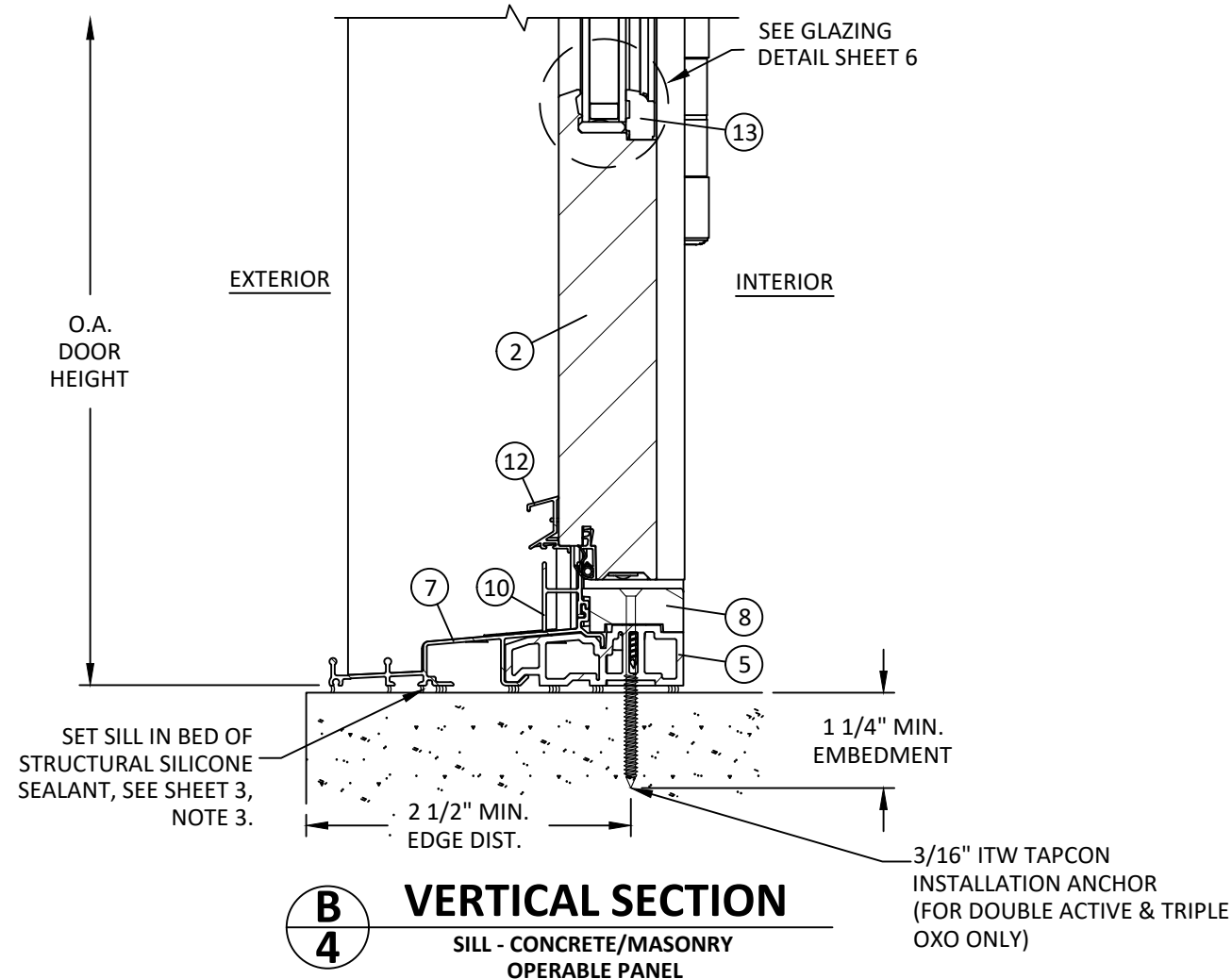
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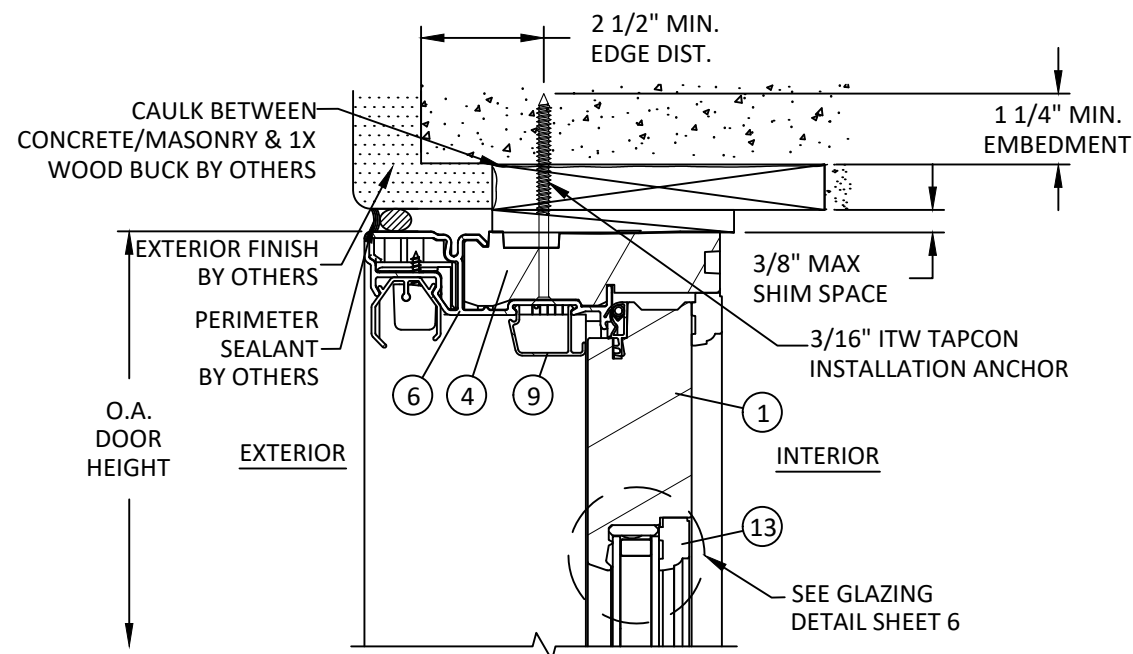
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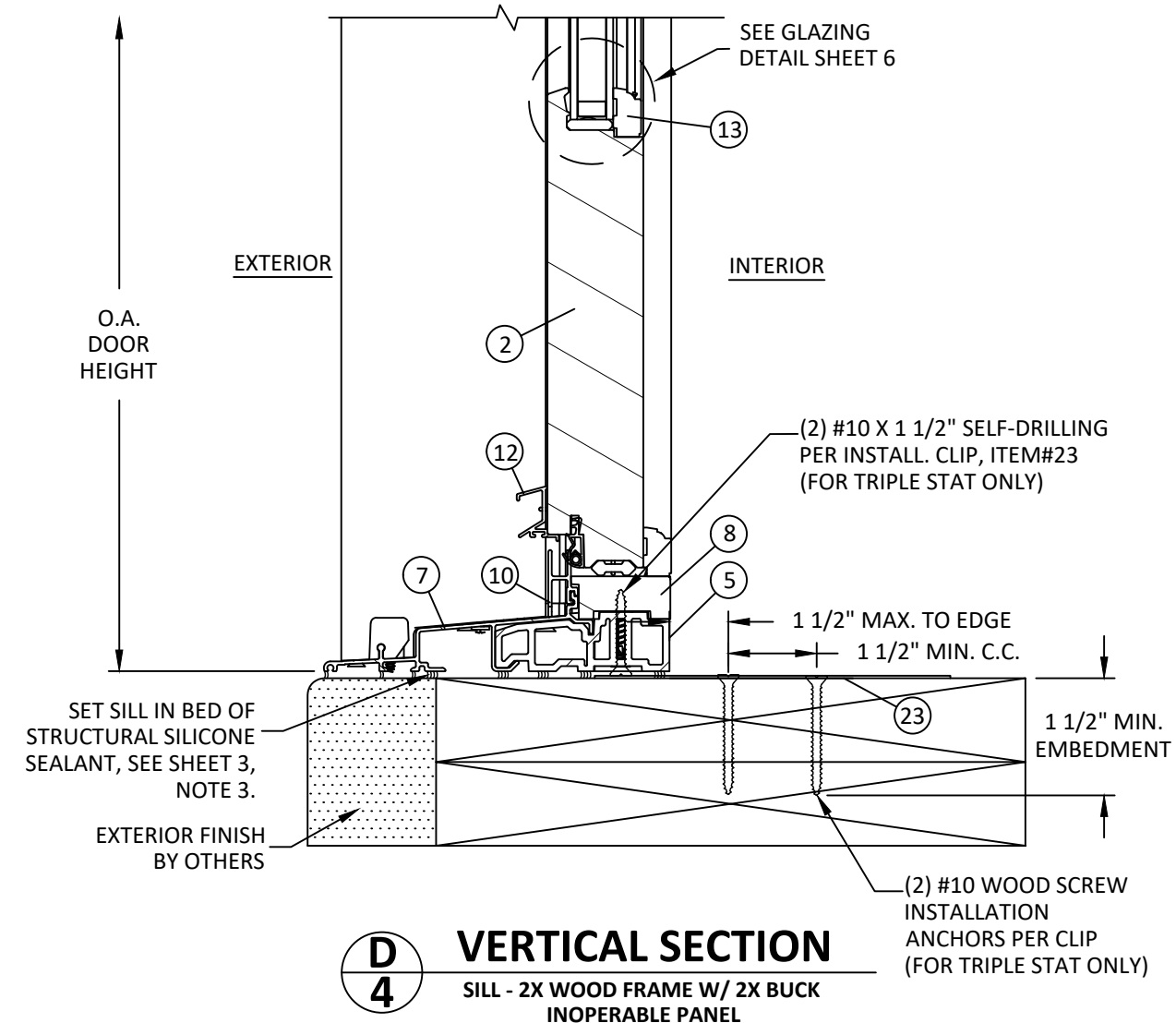
A
4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
OPERABLE PANEL



B
4 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
OPERABLE PANEL



C
4 **VERTICAL SECTION**
HEAD - 1X BUCK INTO CONCRETE/MASONRY
INOPERABLE PANEL



D
4 **VERTICAL SECTION**
SILL - 2X WOOD FRAME W/ 2X BUCK
INOPERABLE PANEL



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INSTALLATION DETAILS
(VERTICAL SECTIONS)

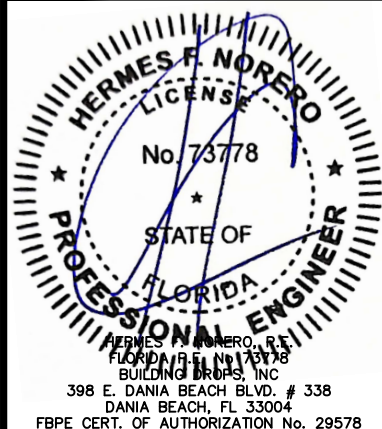
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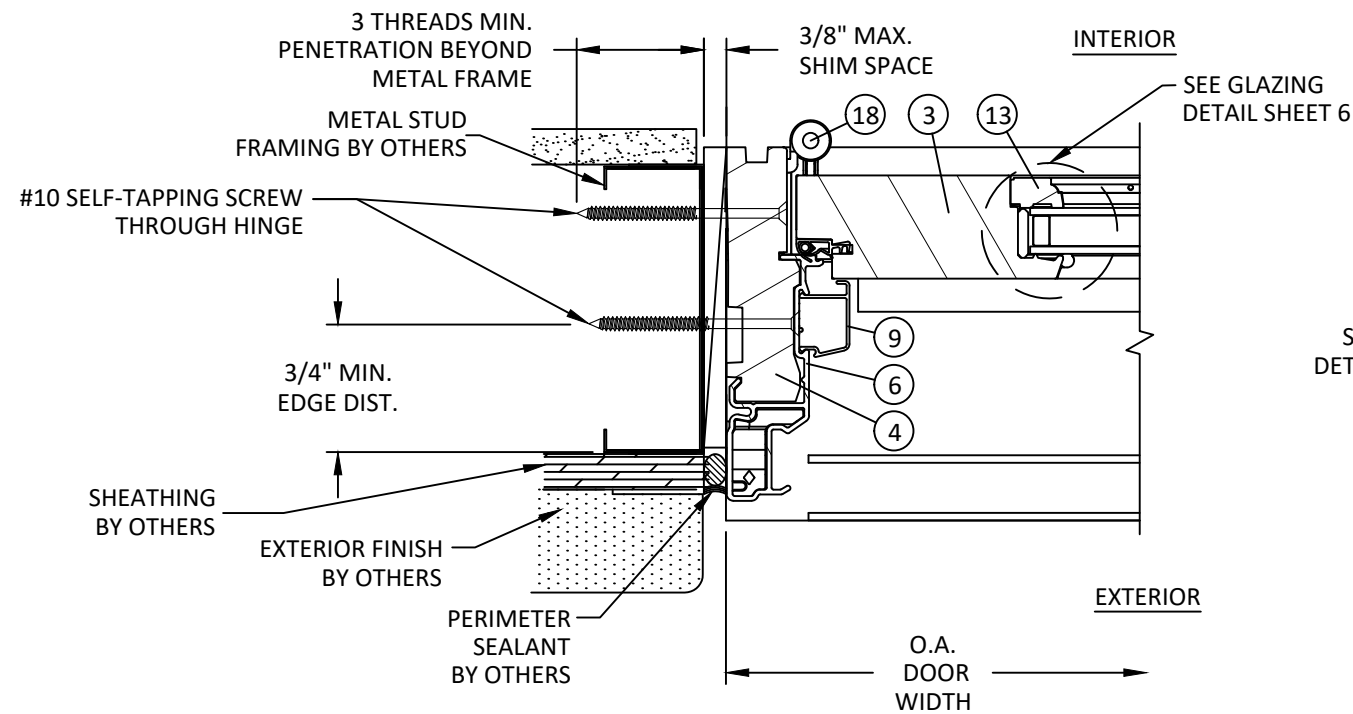
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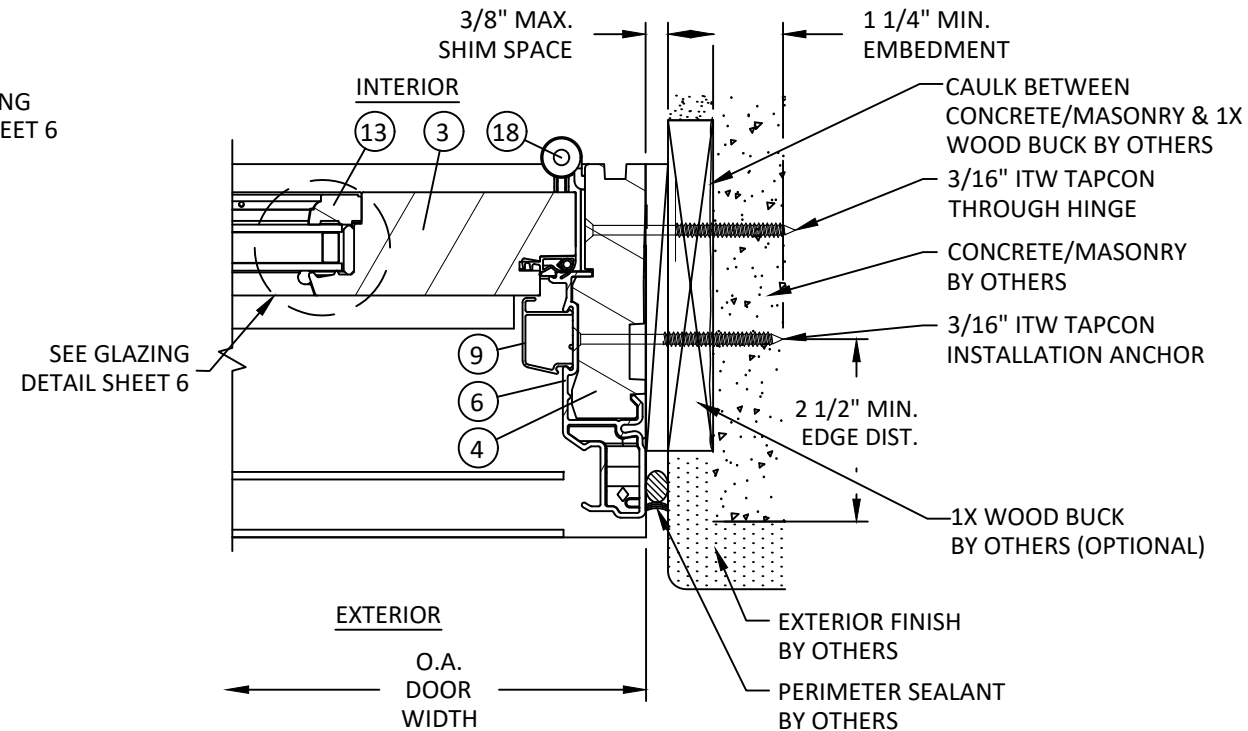
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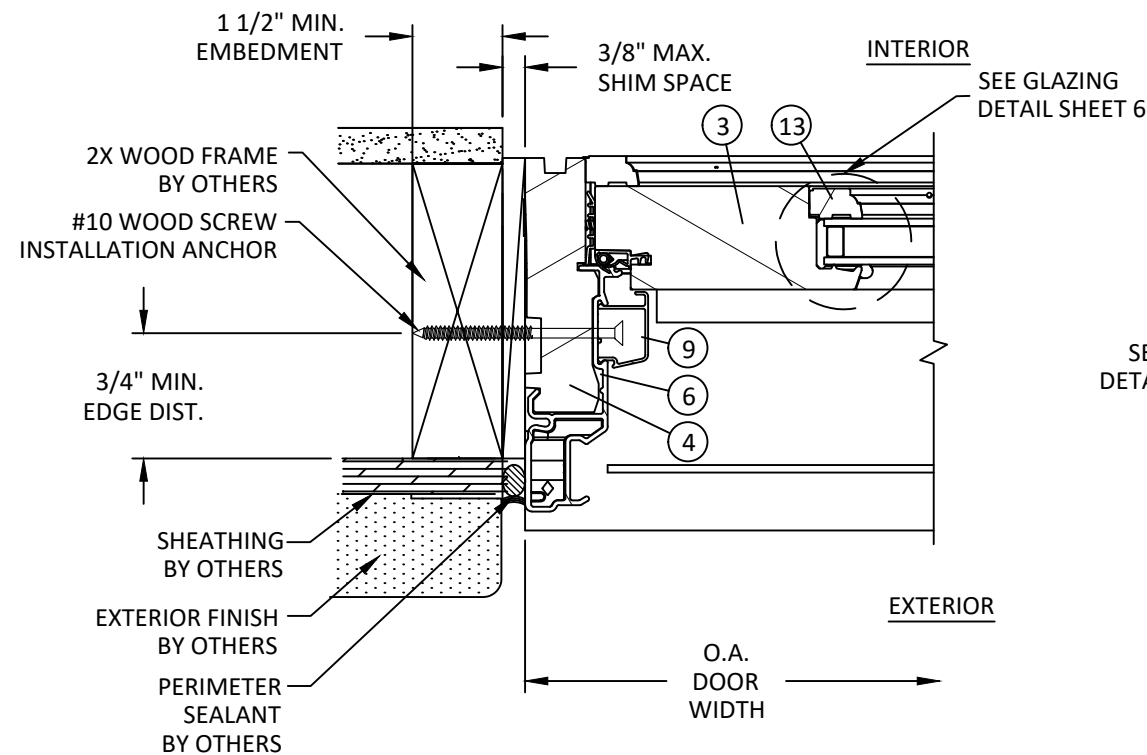
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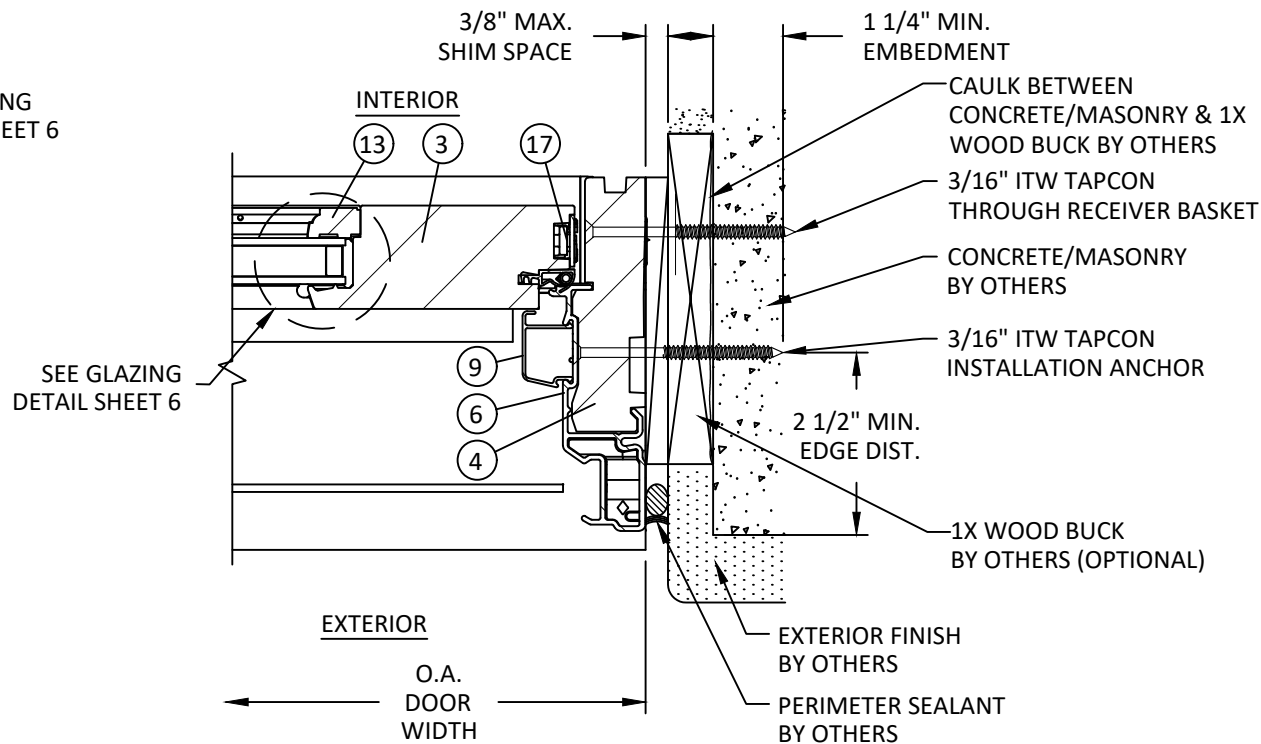
E HORIZONTAL SECTION
5 JAMB - METAL STUD FRAME
OPERABLE HINGE



G HORIZONTAL SECTION
5 JAMB - 1X BUCK INTO CONCRETE/MASONRY
OPERABLE HINGE



F HORIZONTAL SECTION
5 JAMB - 2X WOOD FRAME
INOPERABLE PANEL



H HORIZONTAL SECTION
5 JAMB - 1X BUCK INTO CONCRETE/MASONRY
OPERABLE LOCK



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INSTALLATION DETAILS
(HORIZONTAL SECTIONS)

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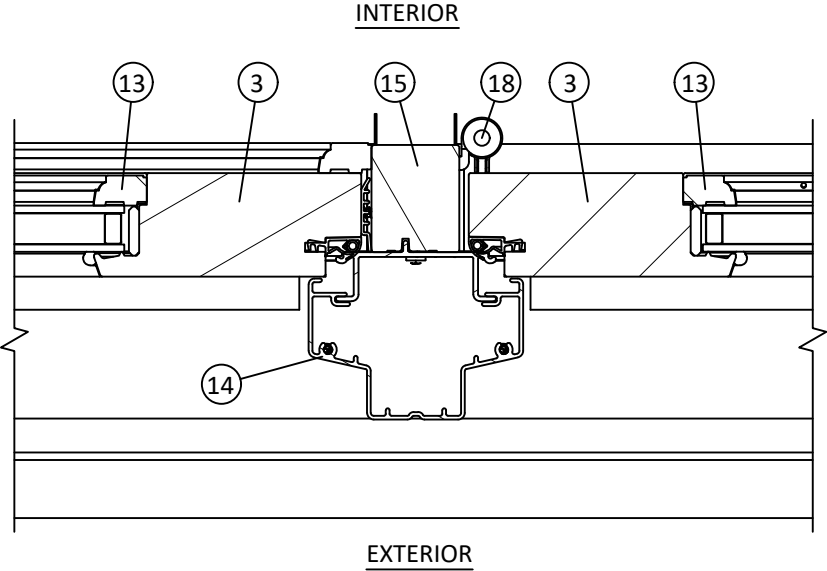
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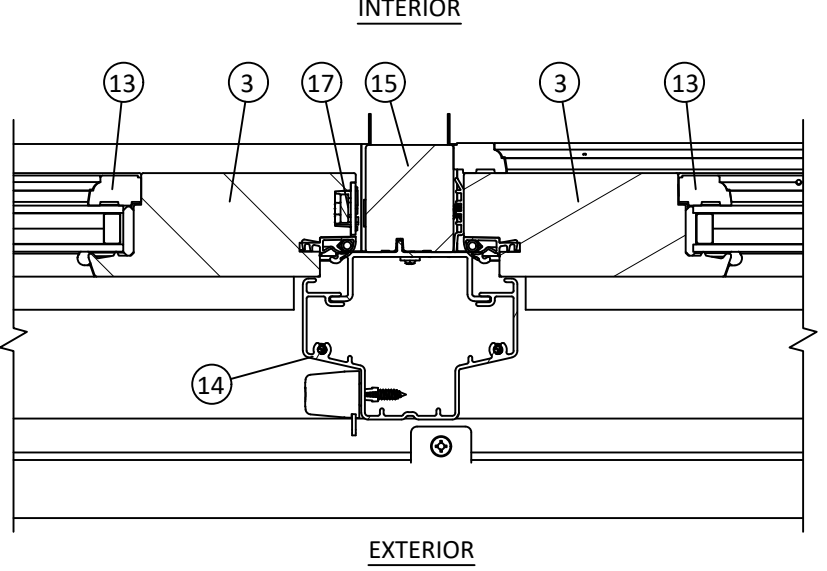
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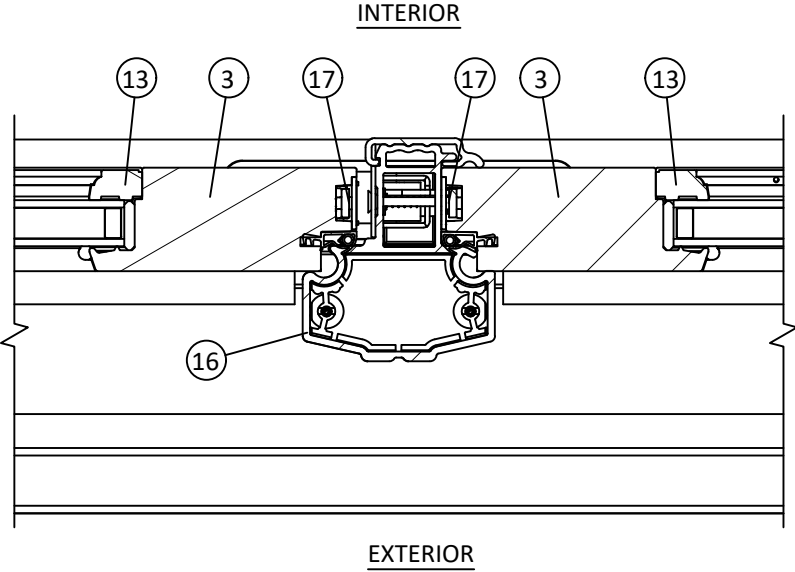
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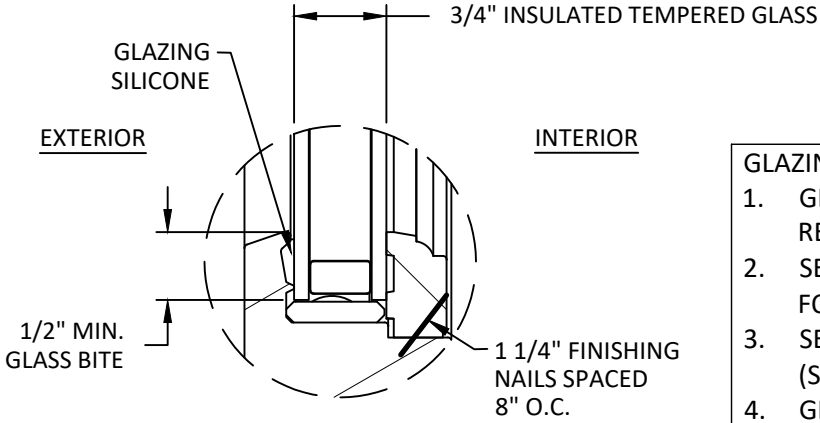
I
6 **HORIZONTAL SECTION**
MULLION - FIXED-OP. HINGE



J
6 **HORIZONTAL SECTION**
MULLION - OP. LOCK-FIXED



K
6 **HORIZONTAL SECTION**
ASTRAGAL - OP. LOCK-OP.LOCK



GLAZING DETAIL

- GLAZING NOTES:
1. GLASS TYPE SHALL COMPLY WITH ASTM E1300 REQUIREMENTS.
 2. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 4. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC



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MULLION & ASTRAGAL DETAILS &
GLAZING DETAIL

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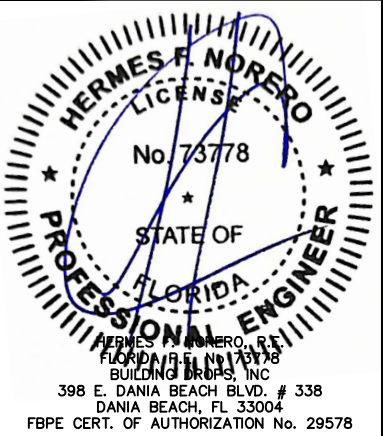
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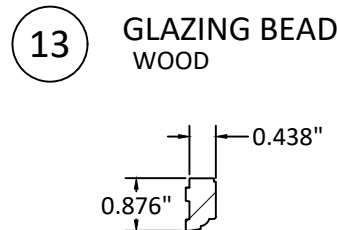
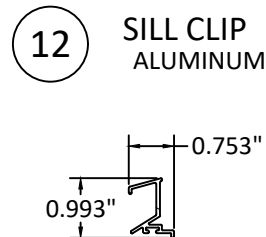
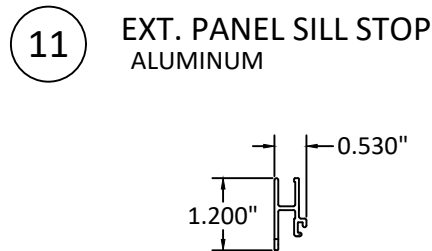
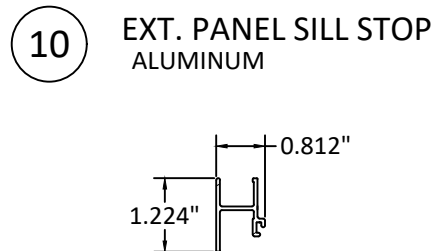
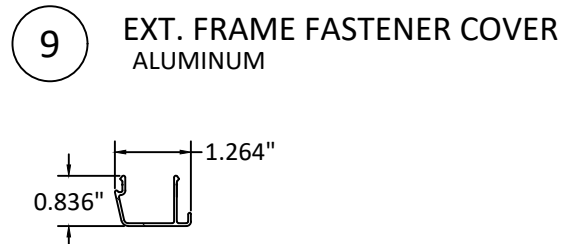
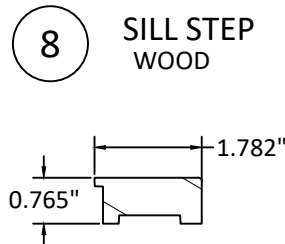
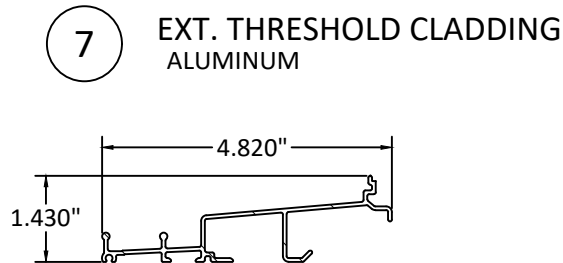
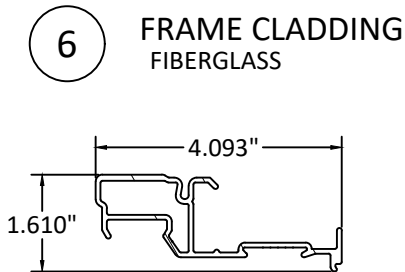
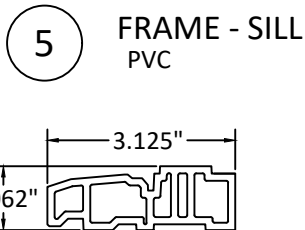
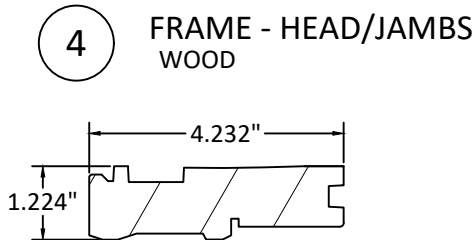
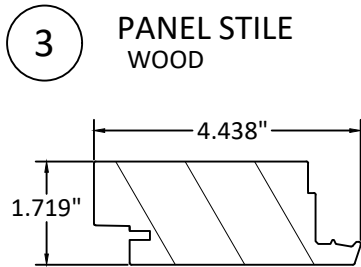
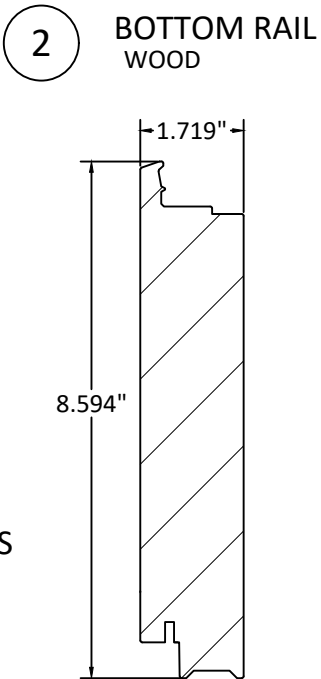
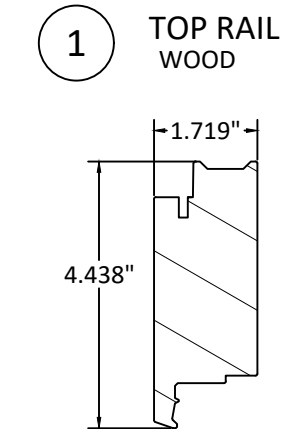
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SHEET:

6

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BILL OF MATERIALS			
NO	DESCRIPTION	MATERIAL	MANUFACTURER
1	TOP RAIL	WOOD	ANDERSEN
2	BOTTOM RAIL	WOOD	ANDERSEN
3	PANEL STILE	WOOD	ANDERSEN
4	FRAME - HEAD/JAMBS	WOOD	ANDERSEN
5	FRAME - SILL	PVC	ANDERSEN
6	FRAME CLADDING	FIBERGLASS	ANDERSEN
7	EXT. THRESHOLD CLADDING	ALUMINUM	ANDERSEN
8	SILL FILLER	WOOD	ANDERSEN
9	EXT. PANEL HEAD STOP	ALUMINUM	ANDERSEN
10	EXT. PANEL SILL STOP	ALUMINUM	ANDERSEN
11	EXT. PANEL SILL STOP	ALUMINUM	ANDERSEN
12	SILL CLIP	ALUMINUM	ANDERSEN
13	GLAZING BEAD	WOOD	ANDERSEN
14	MULLION	ALUMINUM	ANDERSEN
15	MULLION POST	WOOD	ANDERSEN
16	ASTRAGAL	FIBERGLASS	ANDERSEN
17	THREE POINT LOCK ASSY	-	ANDERSEN
18	HINGE		ANDERSEN
19	WEATHERSTRIPPING	-	ANDERSEN
20	END PLATE	ALUMINUM	ANDERSEN
21	EXT. TRIM STRIP	VINYL	ANDERSEN
22	NON-REINFORCING JOINING STRIP	ALUMINUM	ANDERSEN
23	INSTALLATION CLIP	304SS	ANDERSEN



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TITLE: 400 SERIES HINGED
PATIO DOOR - INSWING
(NON-HVHZ)/(NON-IMPACT)

COMPONENTS & BILL OF MATERIALS

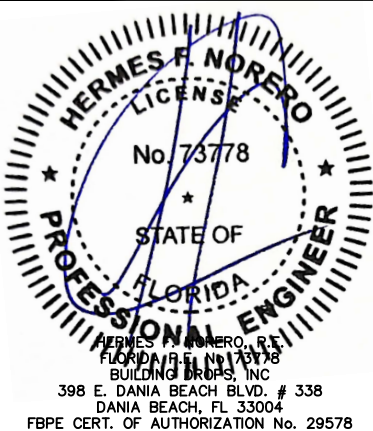
PREPARED BY: BUILDING DROPS, INC.

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DANIA BEACH, FL 33004
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FAX: (954) 744-4738
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REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.17.20
8TH FBC CODE CHANGE	SH	5.12.23

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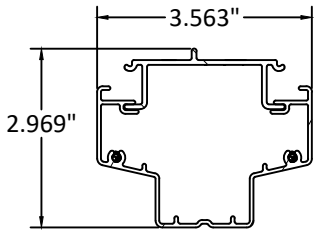


FL #:	FL14320
DATE:	07.22.19
DWG. BY:	CHK. BY:
HR	HFN
SCALE:	NTS
DWG. #:	AWD124
SHEET:	

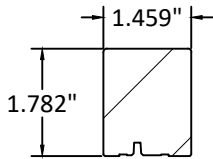
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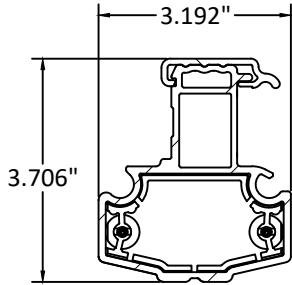
14 MULLION
ALUMINUM



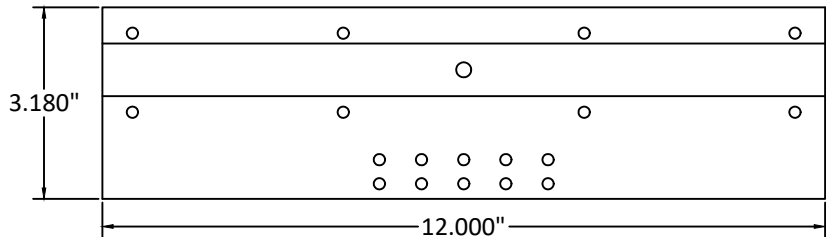
15 MULLION POST
WOOD



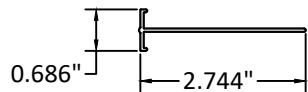
16 ASTRAGAL
FIBERGLASS



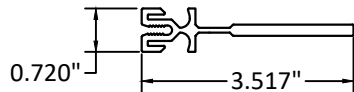
20 END PLATE
6063-T5 ALUMINUM



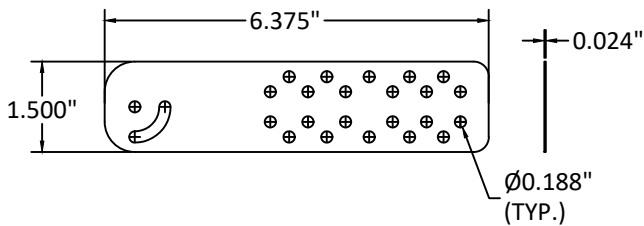
21 EXTERIOR TRIM STRIP
VINYL



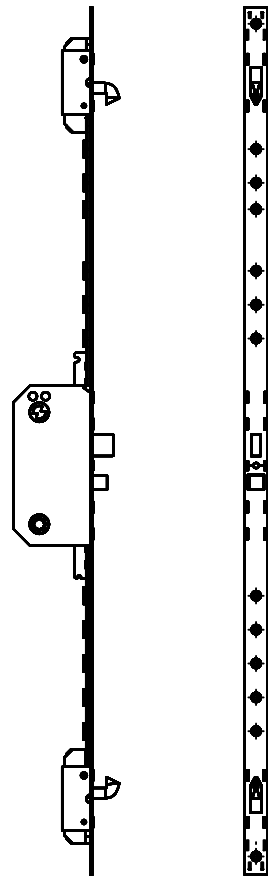
22 NON-REINFORCING JOINING STRIP
ALUMINUM



23 INSTALLATION CLIP
304SS



17 3 POINT LOCK SYSTEM
ACTIVE PANEL - STANDARD DOOR



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TITLE: 400 SERIES HINGED
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COMPONENTS (CONT.)

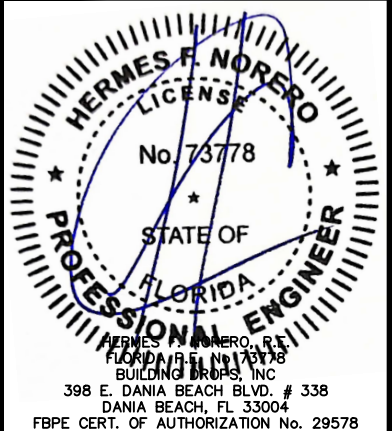
PREPARED BY: BUILDING DROPS, INC.

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DANIA BEACH, FL 33004
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FL #: FL14320

DATE: 07.22.19

DWG. BY: HR
CHK. BY: HFN

SCALE: NTS

DWG. #: AWD124

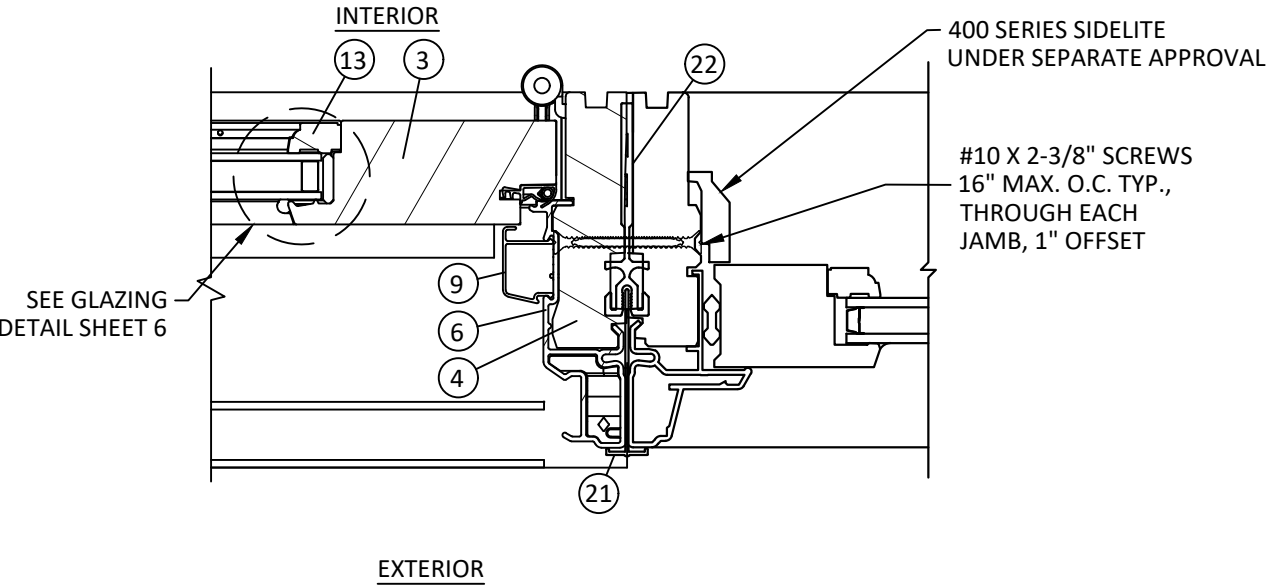
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OF 11

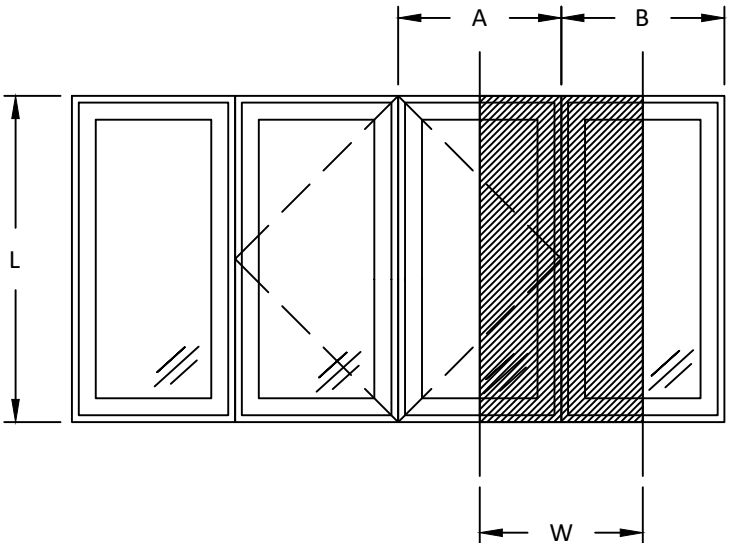
C - Mullion Length	One Way Load Table (FWH-Sidelite)												
	(A+B)/2												
		48	45	42	39	36	33	30	27	24	21	18	15
	80.00	46.22	48.50	51.19	54.37	58.16	62.72	68.28	75.17	80.00	80.00	80.00	80.00
	83.00	42.53	44.69	47.22	50.20	53.76	58.02	63.21	69.64	77.74	80.00	80.00	80.00
	86.00	39.28	41.31	43.70	46.46	49.70	53.59	58.34	64.21	71.63	80.00	80.00	80.00
	89.00	35.30	37.10	39.20	41.68	44.62	48.16	52.46	57.78	64.49	73.20	80.00	80.00
	92.00	31.71	33.36	35.28	37.54	40.23	43.44	47.35	52.18	58.27	66.17	76.77	80.00
	96.00	27.65	29.12	30.83	32.84	35.22	38.07	41.53	45.80	51.17	58.14	67.48	80.00

- NOTE:
- MULLION CHART APPLIES TO MULLION ASSEMBLIES, SEE TYP. DETAIL L/9, WHEN USED TO MULL DOORS WITH SIDELITES IN CONFIGURATIONS SHOWN IN ELEVATIONS A & B BELOW .
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE JAMB-TO-JAMB WOOD MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
 - MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES FRENCHWOOD SIDELITE OR FRENCHWOOD INSWING DOOR UNITS.
 - ADJACENT WINDOWS SHALL BE FASTENED TO THE ROUGH OPENING WITH ADDITIONAL ANCHORS IN ACCORDANCE WITH DETAILS P/11 & Q/11, SHEET 11.



L
9

HORIZONTAL SECTION
JAMB TO JAMB MULLION
TYP.



ELEVATION A
TRIBUTARY WIDTH = W = (A+B)/2



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PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES HINGED
PATIO DOOR - INSWING
(NON-HVHZ)/(NON-IMPACT)

SIDELITE MULL TABLE (ONE-WAY)

PREPARED BY:

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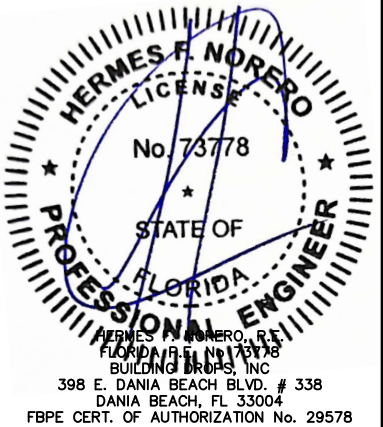
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.17.20
8TH FBC CODE CHANGE	SH	5.12.23

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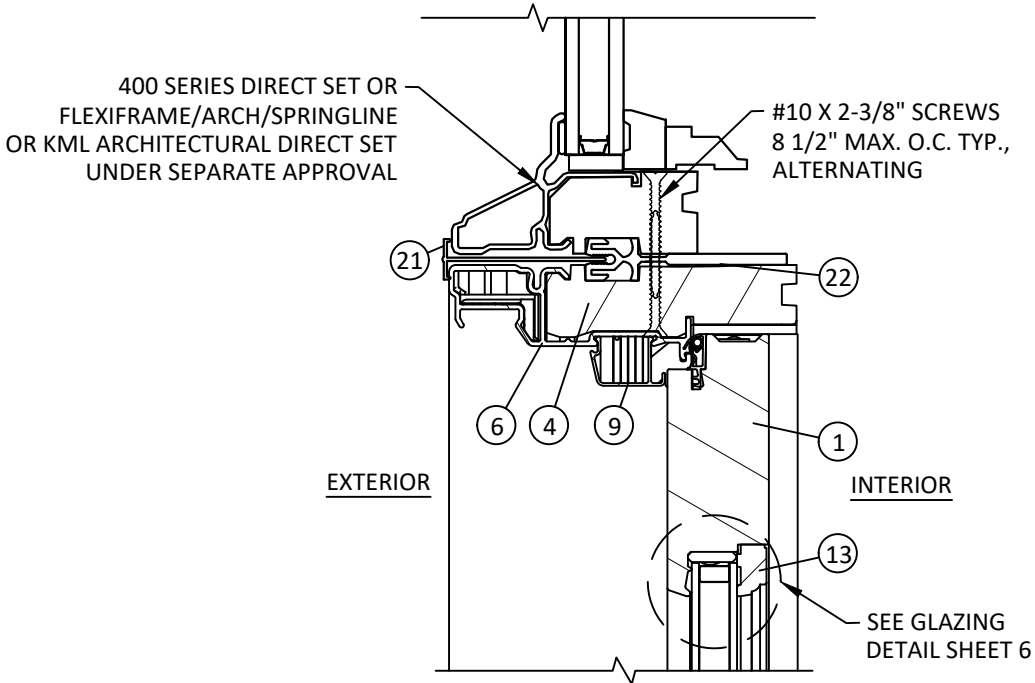


FL #:	FL14320
DATE:	07.22.19
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD124
SHEET:	9

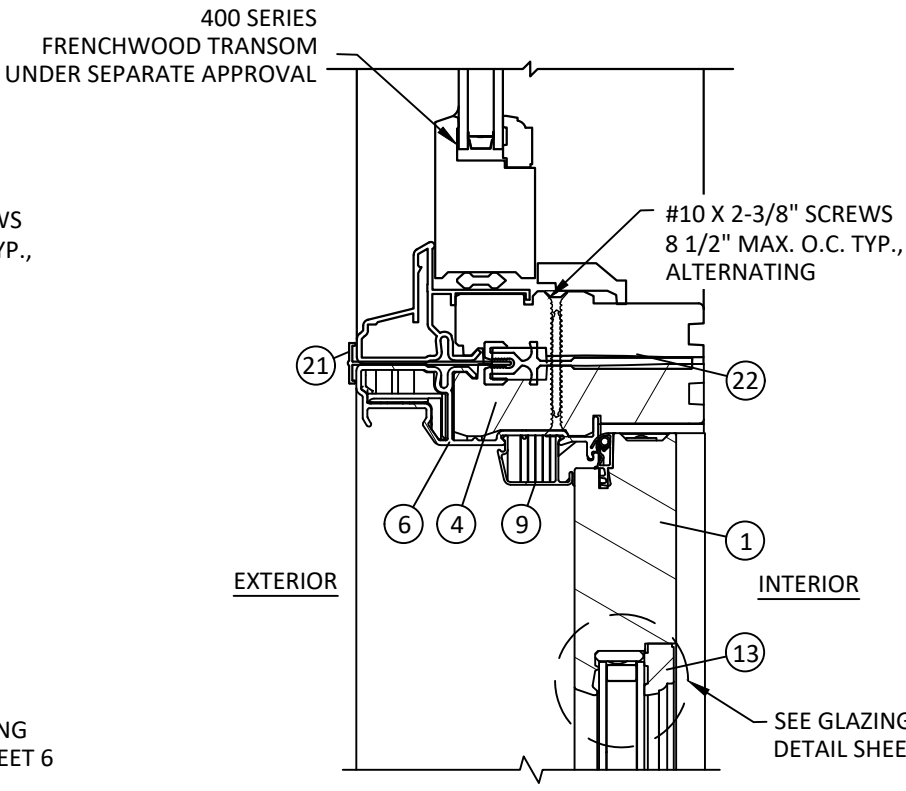
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C - Mullion Length	Two Way Load Table (FWH-Transom)									
	(A+B)/2									
		68.00	64.00	60.00	56	52	48	44	40	36
	30	100.00	100.00	100.00	100	100	100	100	100	100
	33	100.00	100.00	100.00	100	100	100	100	100	100
	36	88.19	93.70	99.95	100	100	100	100	100	100
	48	49.61	52.71	56.22	60.24	64.87	70.27	76.66	84.33	93.70
	54	39.19	41.64	44.42	47.59	51.25	55.53	60.57	66.63	74.03
	60	31.75	33.73	35.98	38.55	41.52	44.98	49.06	53.97	59.97
	64	27.90	29.65	31.62	33.88	36.49	39.53	43.12	47.44	52.71
72	22.05	23.42	24.99	26.77	28.83	31.23	34.07	37.48	41.64	

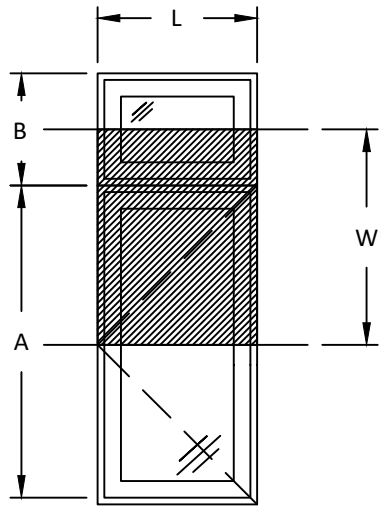
- NOTE:
- 1) MULLION CHART APPLIES TO MULLION ASSEMBLIES, SEE TYP. DETAILS M/10 & N/10 , WHEN USED TO MULL DOORS WITH TRANSOMS IN CONFIGURATIONS SHOWN IN TYP. ELEVATIONS B & C BELOW.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE NARROW WOOD MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
 - 5) MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES DIRECT SET FLEXIFRAME WINDOWS, FRENCHWOOD SIDELITE/TRANSOM UNITS, OR ARCHITECTURAL DIRECT SET WINDOWS.
 - 6) ADJACENT UNITS SHALL BE FASTENED TO THE ROUGH OPENING WITH ADDITIONAL ANCHORS IN ACCORDANCE WITH DETAIL O/11, SHEET 11.



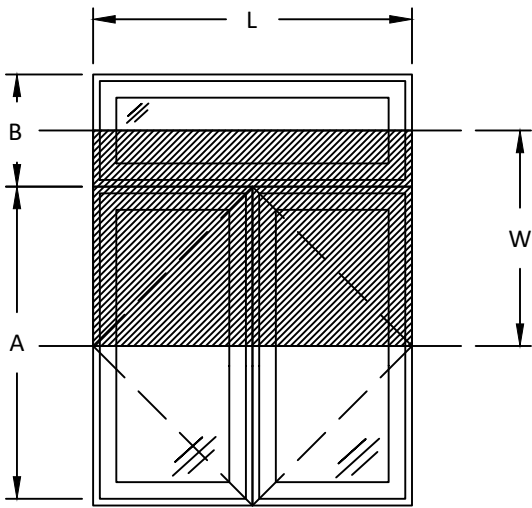
M/10
HORIZONTAL SECTION
HEAD JAMB TO 400S DG OR FLEXI/ARCH /SPRINGLINE/KML ARCH TYP.



N/10
HORIZONTAL SECTION
HEAD JAMB TO 400 SERIES TRANSOM TYP.



ELEVATION C
TRIBUTARY WIDTH = W = (A+B)/2



ELEVATION B
TRIBUTARY WIDTH = W = (A+B)/2



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TITLE: 400 SERIES HINGED
PATIO DOOR - INSWING
(NON-HVHZ)/(NON-IMPACT)

TRANSOM MULL TABLE (TWO-WAY)

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REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.17.20
8TH FBC CODE CHANGE	SH	5.12.23

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FL #: **FL14320**

DATE: **07.22.19**

DWG. BY: **HR** CHK. BY: **HFN**

SCALE: **NTS**

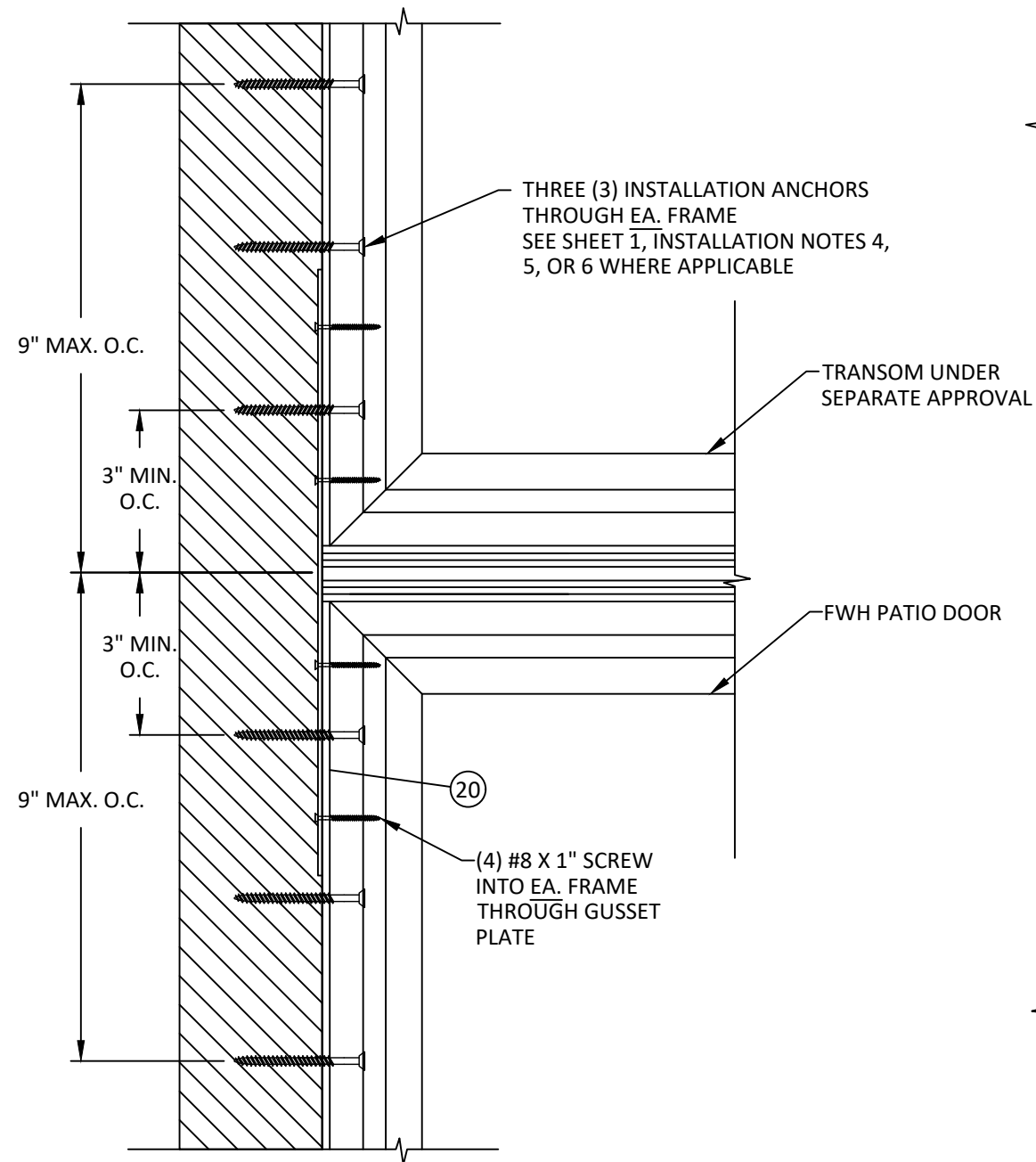
DWG. #: **AWD124**

SHEET:

10

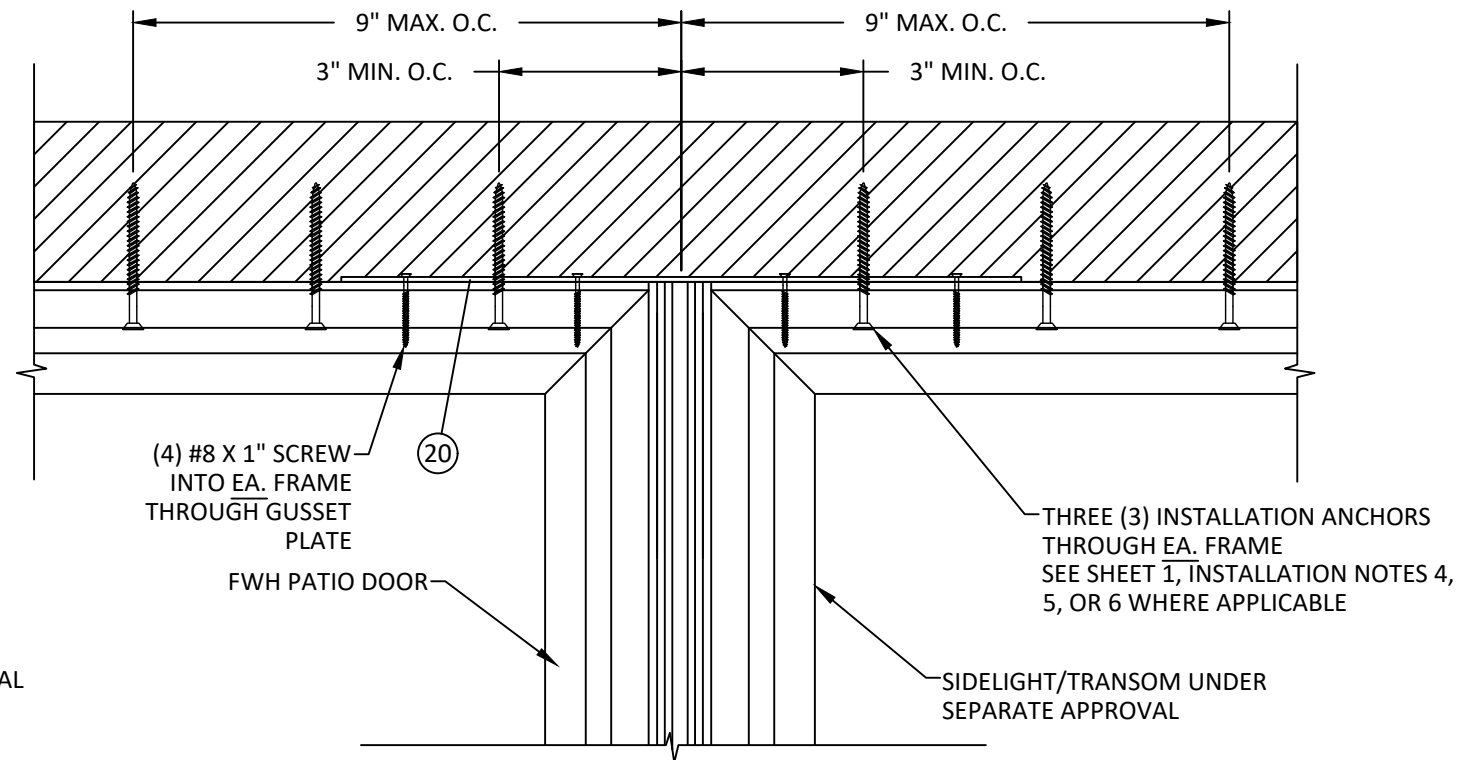
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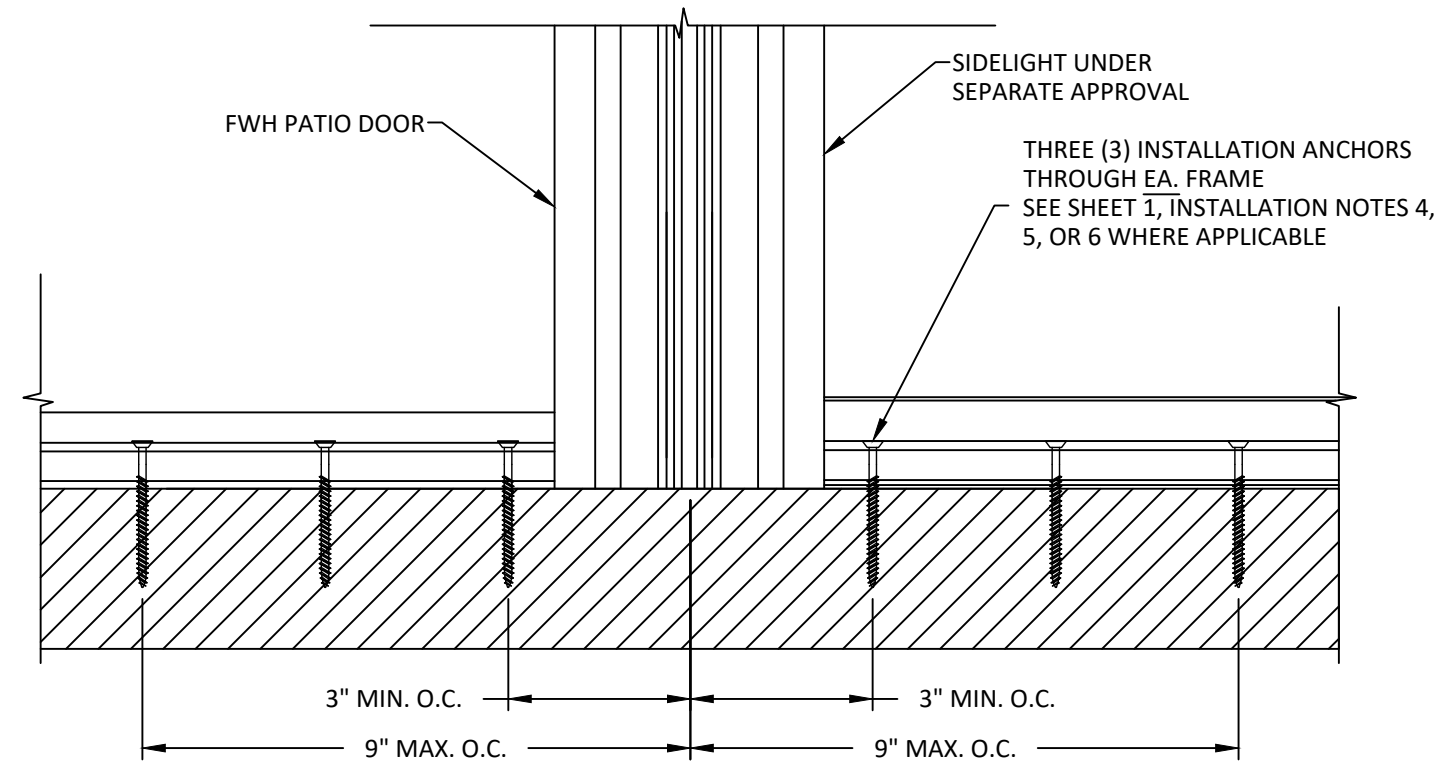
O
11

EXTERIOR VIEW
MULLION ANCHOR DETAIL - JAMB
THROUGH FRAME - TYP.



P
11

EXTERIOR VIEW
MULLION ANCHOR DETAIL - HEAD
THROUGH FRAME - TYP.



Q
11

EXTERIOR VIEW
MULLION ANCHOR DETAIL - SILL
THROUGH FRAME - TYP.



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MULLION DETAILS

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SHEET:

11

OF 11