

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION UNLESS OTHERWISE SHOWN.

2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.

3. 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.

4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.

5. FOR INSTALLATION INTO WOOD FRAMING USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.

6. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 1/4 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.

7. FOR INSTALLATION THROUGH METAL STUD USE 1/4 INCH DIAMETER SELF-DRILLING SCREWS, GR. 5 OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.

8. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.

9. 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).

10.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.

11.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.

12.INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. MASONRY - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

E. ALUMINUM - MINIMUM 0.067 INCH THICK, 6063-T5 ALUMINUM.

13.INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEMS.

YKK AP America Inc.

YOW 225 H NON-THERMAL ALUMINUM

PROJECT OUT WINDOW

(WZ3) (IMPACT)

GENERAL NOTES:

1. 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/A440-22

• TAS 201-94

• TAS 202-94

• TAS 203-94

2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING 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.

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.

5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 3 OR LESS.

6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.

7. WINDOW FRAME MATERIAL: ALUMINUM 6063-T5

8. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.

9. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 12 FOR GLAZING DETAILS.

10.GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS PER CHAPTER 24 OF CURRENT FBC.

11.GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

12.GLAZING GASKETS SHALL MEET THE MINIMUM PERFORMANCE REQUIREMENTS AS APPLICABLE IN CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

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PROJECT OUT DESIGN PRESSURE TABLE		
GLAZING TYPES	MAX. DP	IMPACT RATING
A, B, C	+65/-65 PSF	LMI & SMI
D, E	+65/-65 PSF	SMI

- NOTE:
1. LMI - LARGE MISSILE IMPACT RATED

2. SMI - SMALL MISSILE IMPACT RATED

3. SEE SHEET 12 FOR GLAZING DETAILS AND VENT SIZE TABLE

4. REFER TO HARDWARE SCHEDULE SHEET 3

5. REFER TO SHEET 2 FOR APPROVED SIZES

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YOW 225 H NON-THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)

INSTALLATION & GENERAL NOTES

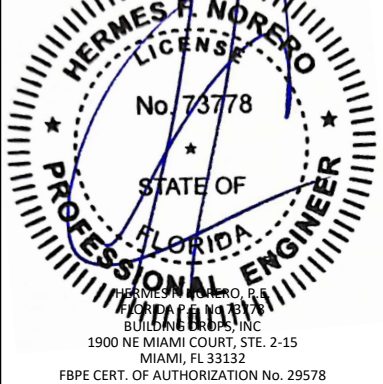
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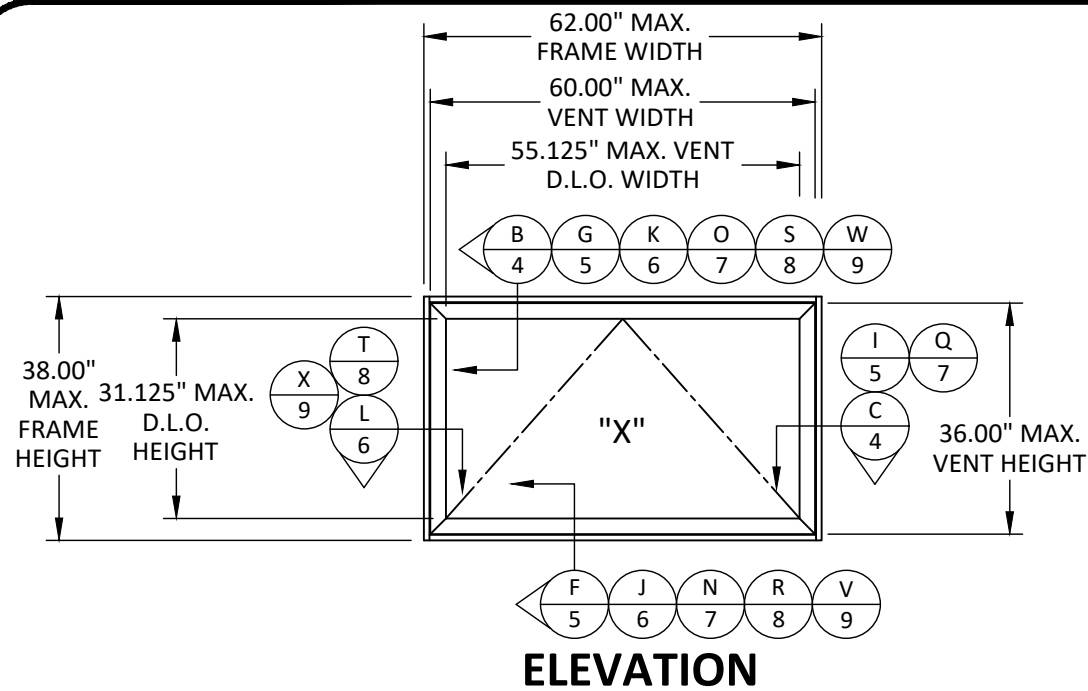
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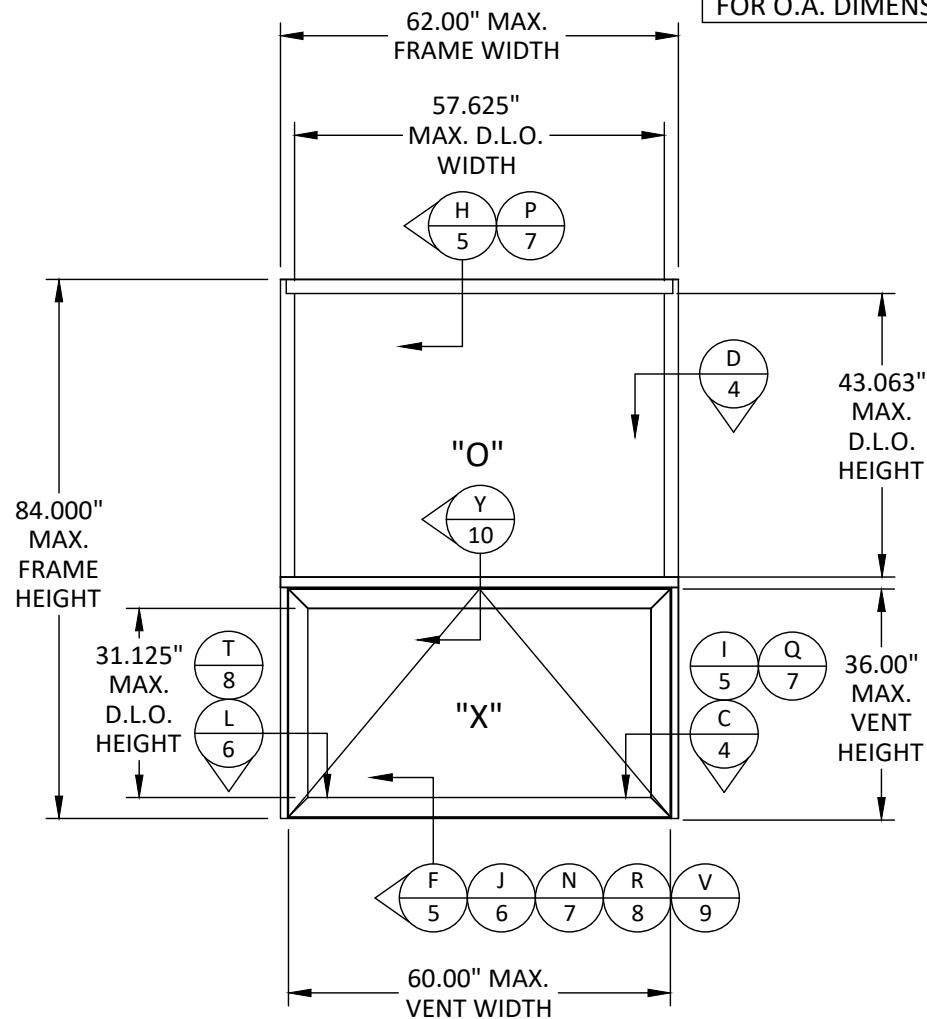
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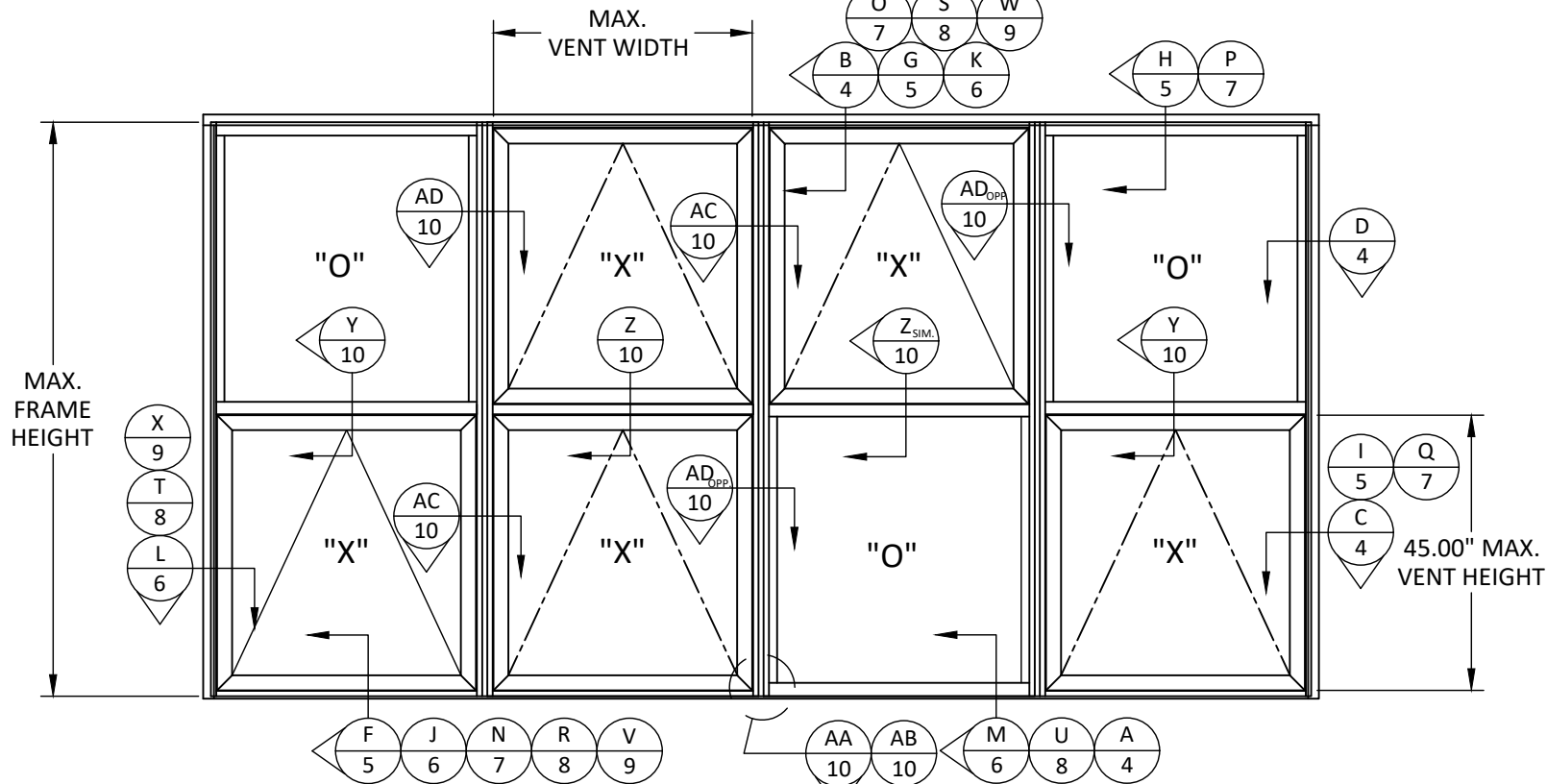
ELEVATION

NOTE: MAX. VENT SIZES BASED ON APPROVED VENT SIZE CHART.

NOTE: MAX. DIMENSIONS SHOWN MAY EXCLUDE RECEPTOR DIMENSIONS. SEE DETAILS SHEET 4 FOR O.A. DIMENSION LOCATIONS.

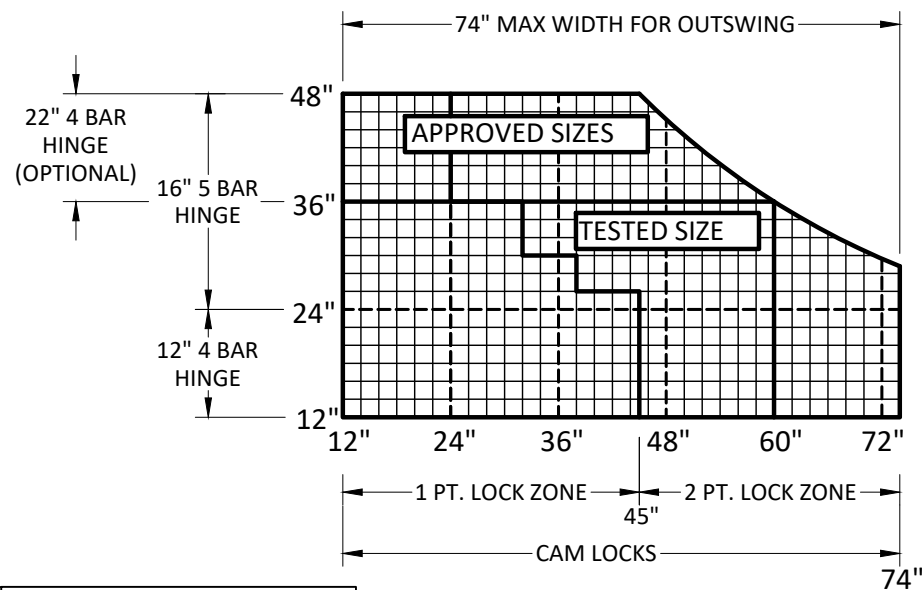


ELEVATION



ELEVATION

APPROVED VENT SIZES



FRAME HEIGHT = VENT HEIGHT + 2"
FRAME WIDTH = VENT WIDTH + 2"

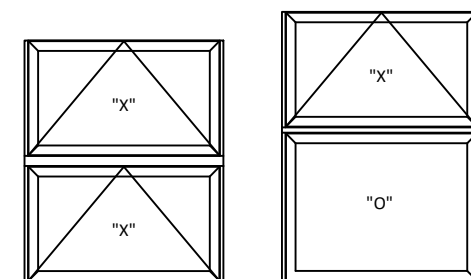
NOTES:

- VENT SIZES SHOWN IN DIAGRAM ABOVE ARE APPROVED FOR USE AT +65 / -65 PSF.
- MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL.
- FRAME SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
- 1 POINT LOCK ZONE REPRESENTS SIZES WHICH MAY USE ONLY 1 LOCKING POINT INSTEAD OF 2 AS-TESTED. SEE BELOW FOR LOCKING HARDWARE REQUIREMENTS.
- GLASS TYPE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM E1300, SEE TABLE, SHEET 12.
- UNITS SHALL FOLLOW HARDWARE REQUIREMENTS SHOWN IN DIAGRAM & ON SHEET 3.

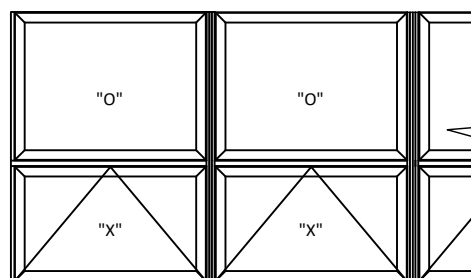
HINGE LIMITS

- 12" 4 BAR - MAX. 20° OPENING (W/ LIMIT) 90 LB. MAX. VENT
- 16" 5 BAR - MAX. 30° OPENING (W/O LIMIT) 130 LB. MAX. VENT
- 22" 4 BAR - MAX. 45° OPENING (W/ LIMIT) 140 LB. MAX. VENT

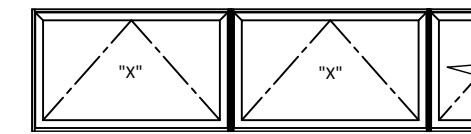
QUALIFIED CONFIGURATIONS



NOTE: UNITS MAY UTILIZE INTEGRAL MULLS FOR FIXED OVER PROJECT OUT, PROJECT OUT OVER FIXED, OR PROJECT OUT OVER PROJECT OUT CONFIGURATIONS. ADDITIONALLY, ALTERNATE WINDOW TYPES MAY BE MULLED WITH APPROVED WINDOWS. SEE APPROVED VENT SIZES TABLE FOR MAX. VENT & FIXED LITE SIZES.



NOTE: UNITS MAY BE MULLED SIDE BY SIDE IN COMBINATIONS OF PROJECT OUT/FIXED, PROJECT OUT/PROJECT OUT, AND/OR OTHER APPROVED WINDOW TYPES (SEE APPROVED INSTALLATION INSTRUCTIONS). MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL. FIXED WINDOWS AND OTHER ALTERNATE WINDOW TYPES UNDER SEPARATE APPROVAL.



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TITLE:
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PROJECT OUT WINDOW
(WZ3) (IMPACT)

ELEVATIONS & QUALIFIED
CONFIGURATIONS

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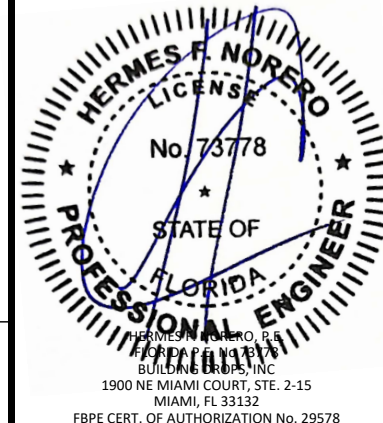
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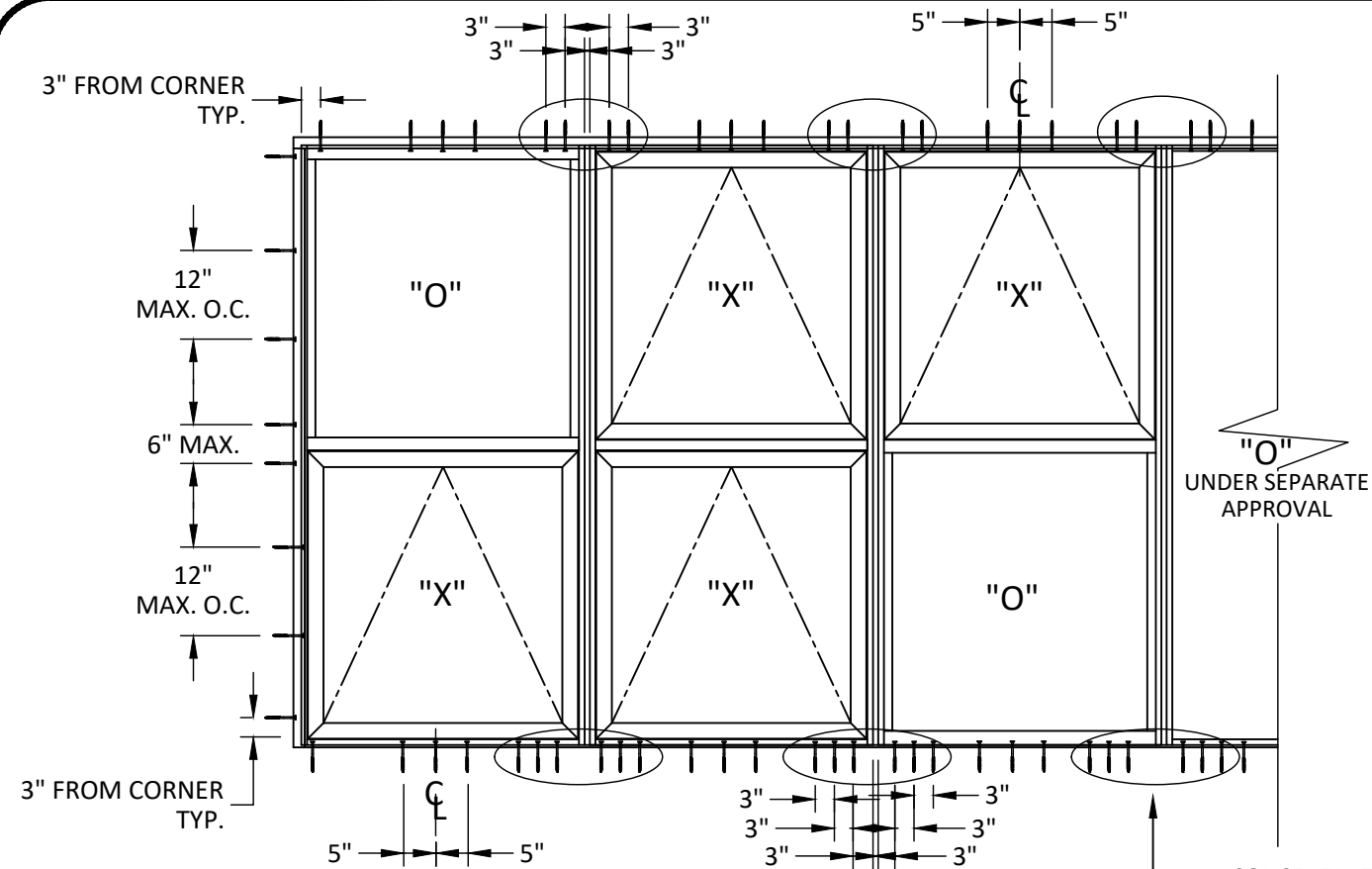
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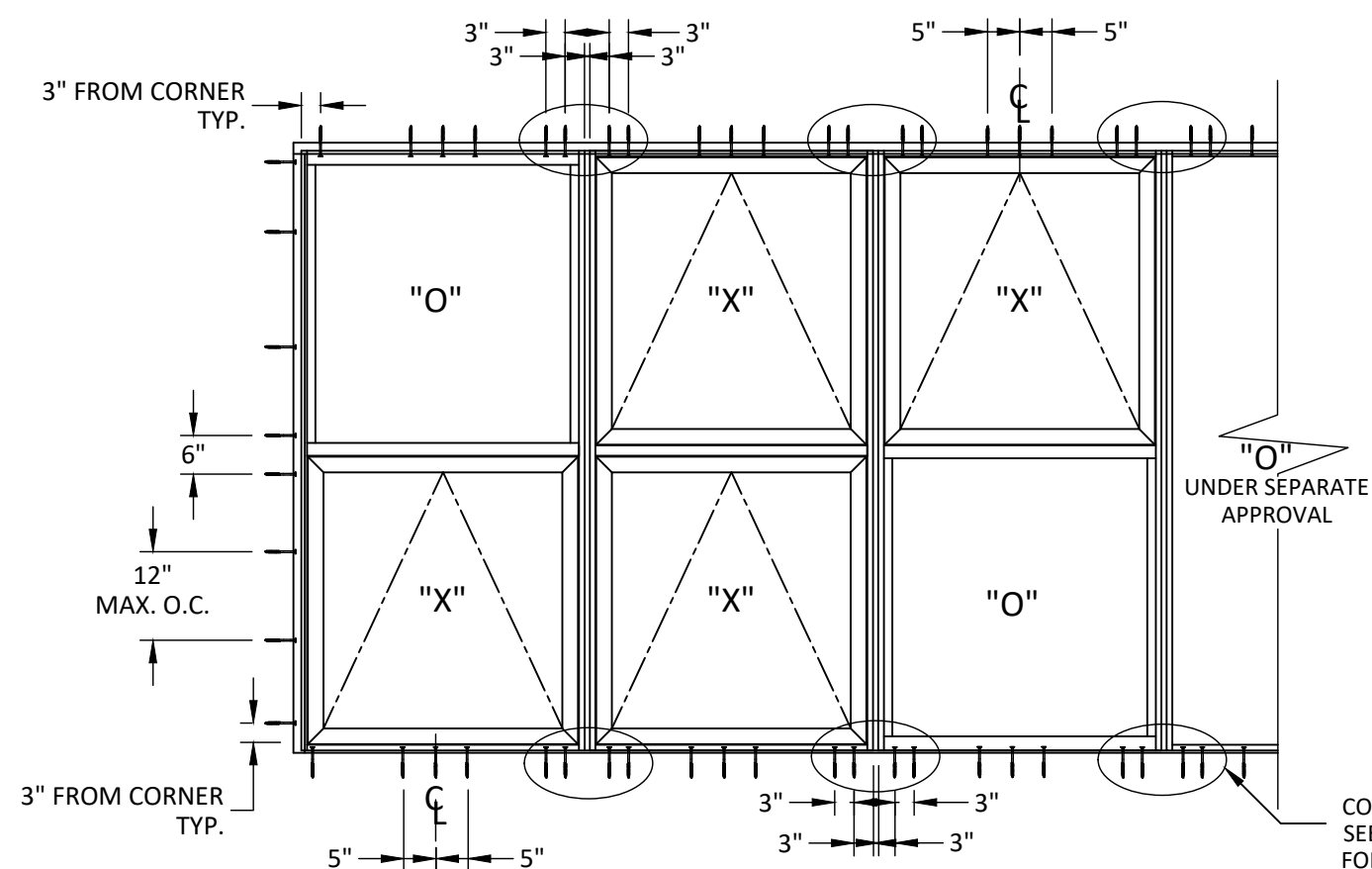
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ANCHOR LAYOUT
RECEPTOR INSTALLATIONS



ANCHOR LAYOUT

STRAP, CLIP, TRIM/CLIP, TWIST ANCHOR OR THRU FRAME INSTALLATIONS

CONCENTRATED ANCHORS - TYP.
SEE CONCENTRATED ANCHOR TABLE
FOR INSTALLATION REQUIREMENTS
DEPENDENT ON DESIGN LOADS.

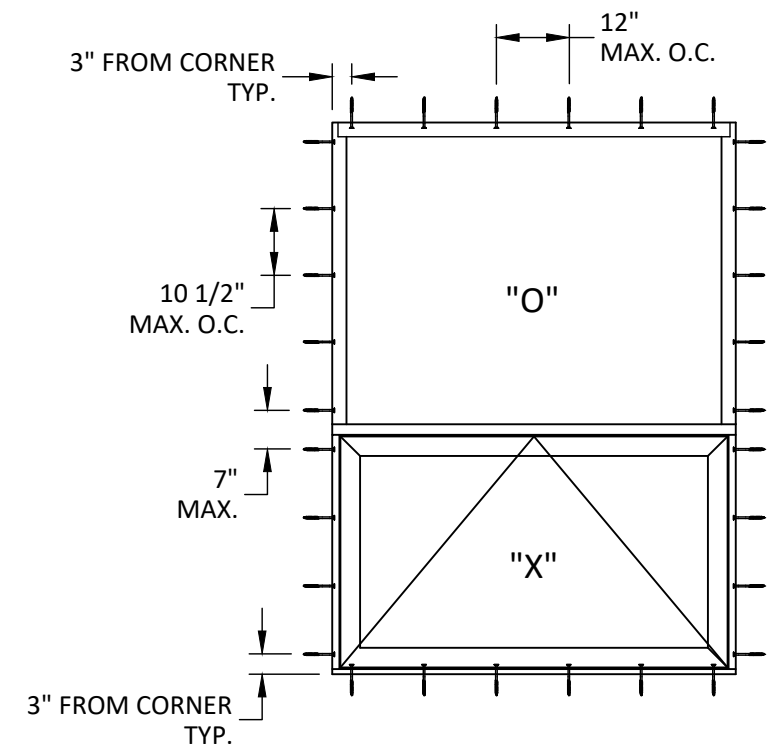
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UNDER SEPARATE
APPROVAL

CONCENTRATED ANCHORS - TYP.
SEE CONCENTRATED ANCHOR TABLE
FOR INSTALLATION REQUIREMENTS
DEPENDENT ON DESIGN LOADS.

CONCENTRATED ANCHOR TABLE

DESIGN PRESSURE (+/- PSF)	MIN. QTY REQUIRED AT EA. END OF STACK MULL*	MIN. QTY REQUIRED AT SILL OF STACK MULL FOR RECEPTOR INSTALLATION**
40	2	4
65	4	6

NOTE:
* QUANTITY OF ANCHORS IS THE MINIMUM REQUIRED QUANTITY OF ANCHORS ADJACENT TO EA. SIDE OF STACK MULLION. ANCHORS SHALL BE SPACED 3" O.C. TO EA. SIDE OF MULL. APPLICABLE TO RECEPTOR AT HEAD ONLY, CLIP, STRAP, TRIM/CLIP AND THROUGH FRAME INSTALLATIONS.
** QUANTITY OF ANCHORS IS THE MINIMUM REQUIRED QUANTITY OF ANCHORS THROUGH THE RECEPTOR SILL (SEE TYP. DETAIL A/4) ADJACENT TO EA. SIDE OF STACK MULL. ANCHORS SHALL BE SPACED 3" O.C. TO EA. SIDE OF MULL.



ANCHOR LAYOUT
ALL INSTALLATIONS

HARDWARE SCHEDULE

HARDWARE TYPE	OPTION#	DESCRIPTION
LOCK OPTIONS	1	BRONZECRAFT CAM HANDLES (E1-1541/1542) AT LOCK STILE OF VENT, 8" FROM EA. END SECURED WITH (2) #10 X 1/2" FH SM. BRONZECRAFT KEEPERS (E1-1519) SECURED WITH (2) #10 X 1/2" FH SMS
	1	12" 4-BAR HINGES (4K-14207), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS.
HINGE OPTIONS	2	16" 5-BAR HINGES (5K-15284), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS.
	3	22" 4-BAR HINGES (4K-14209), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS.

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ANCHOR LAYOUTS &
HARDWARE SCHEDULE

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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FBPE CERT. OF AUTHORIZATION No. 29578

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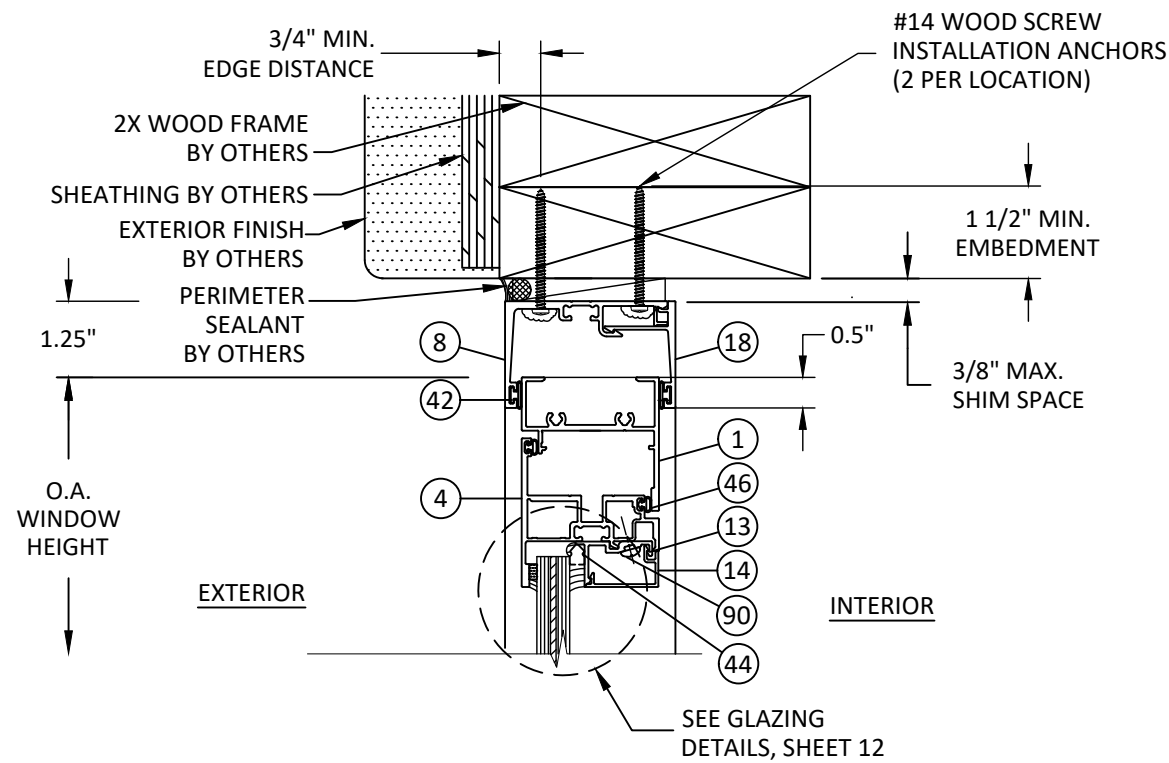
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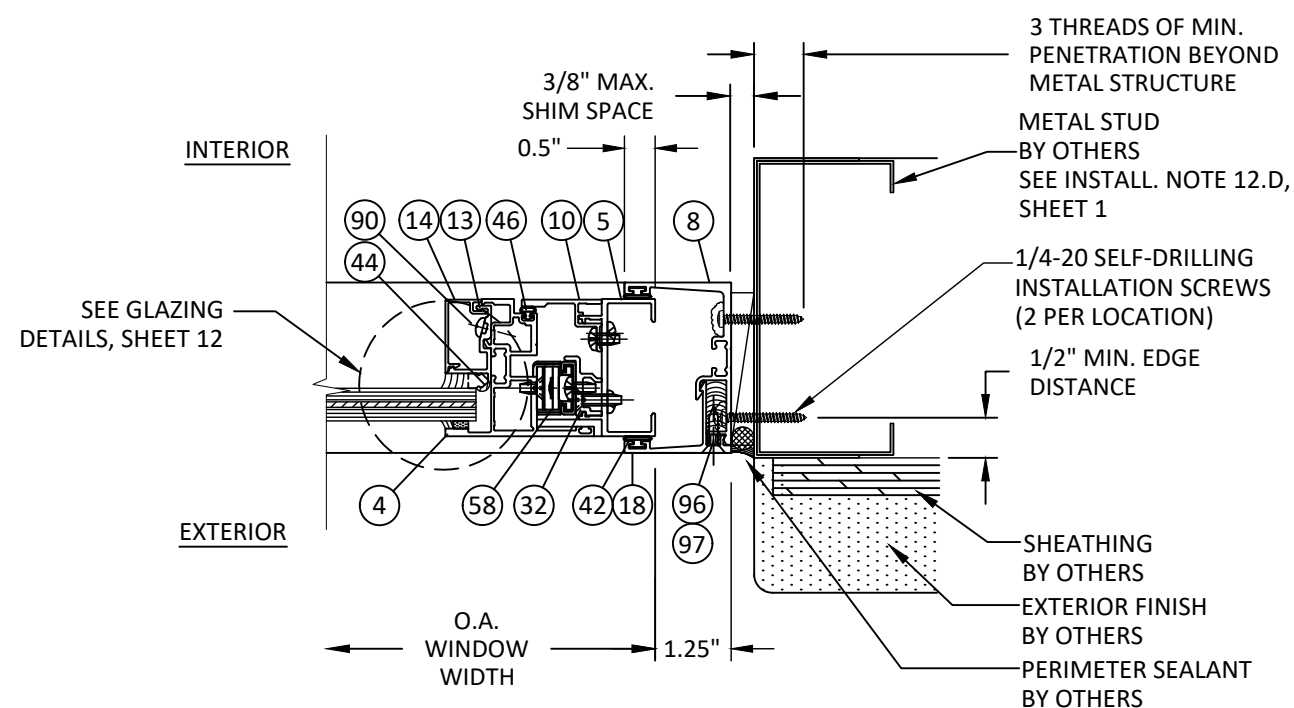
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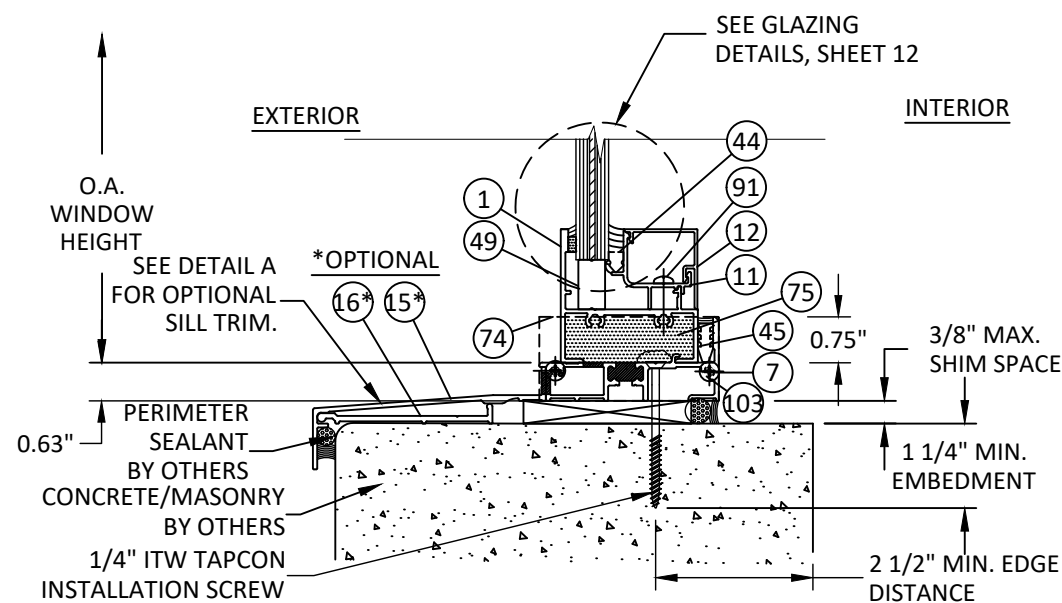


B
4 VERTICAL SECTION
VENT HEAD - 2X WOOD FRAME
INT. SET RECEPTOR - TYP.

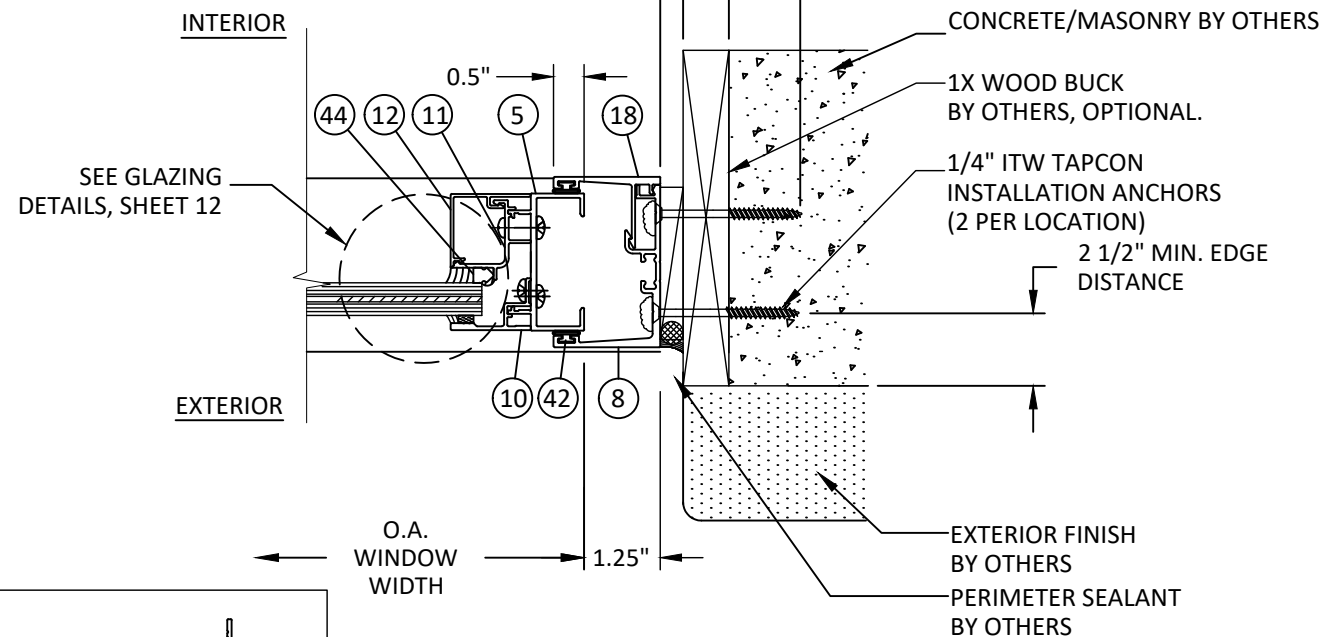


C
4 HORIZONTAL SECTION
VENT JAMB - METAL STUD FRAME
EXT. SET RECEPTOR - TYP.

NOTE: UNITS MAY BE INTERIOR OR EXTERIOR SET INSTALLATIONS. ITEMS #96 & 97 NOT REQUIRED FOR INTERIOR SET INSTALLATIONS.



A
4 VERTICAL SECTION
FIXED SILL - CONCRETE/MASONRY
RECEPTOR - TYP.



D
4 HORIZONTAL SECTION
FIXED JAMB - 1X/CONCRETE/MASONRY
INT.SET RECEPTOR - TYP.



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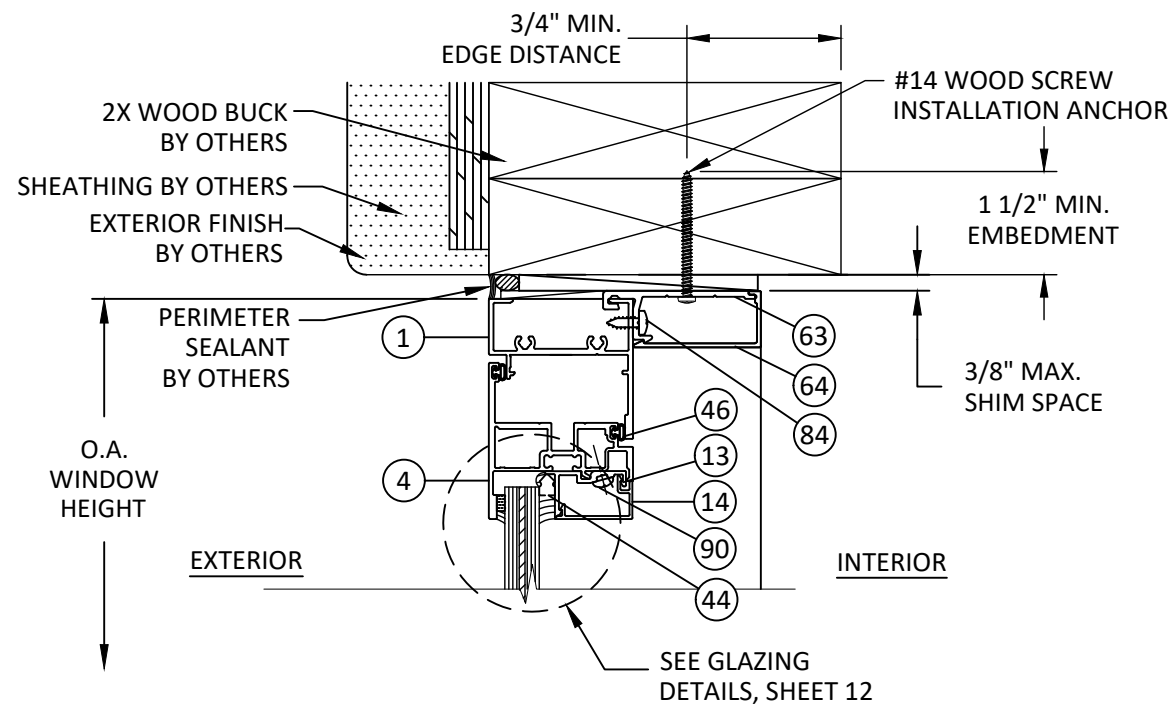
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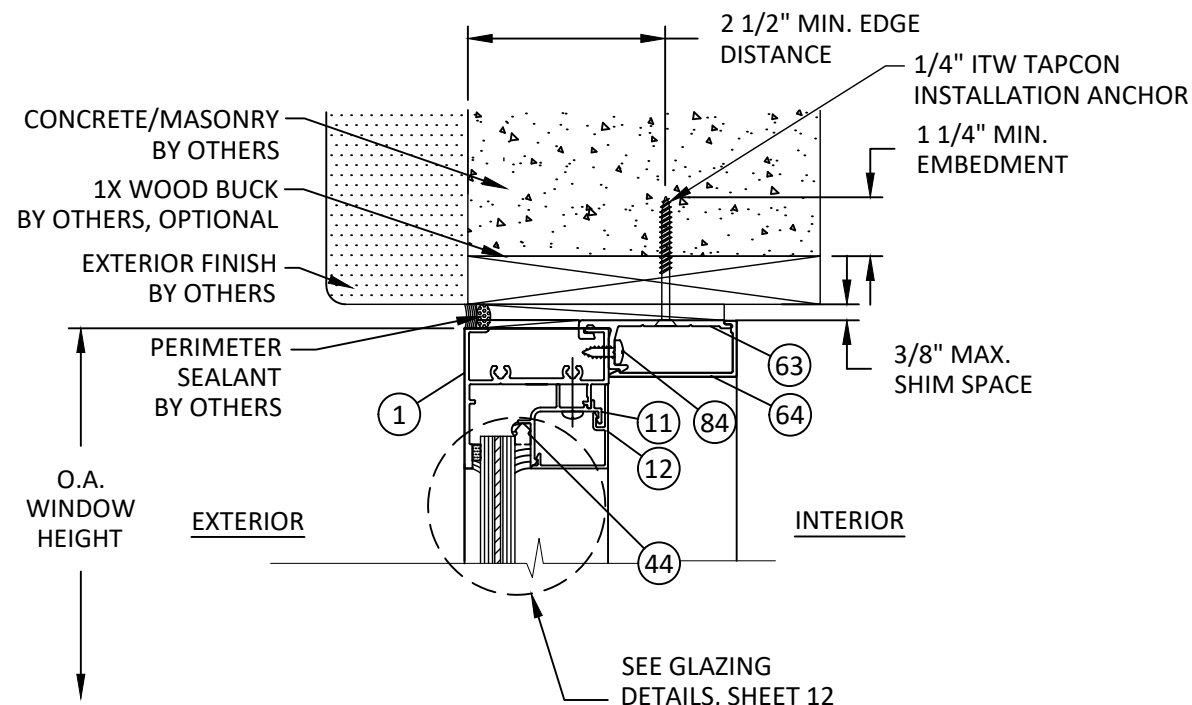
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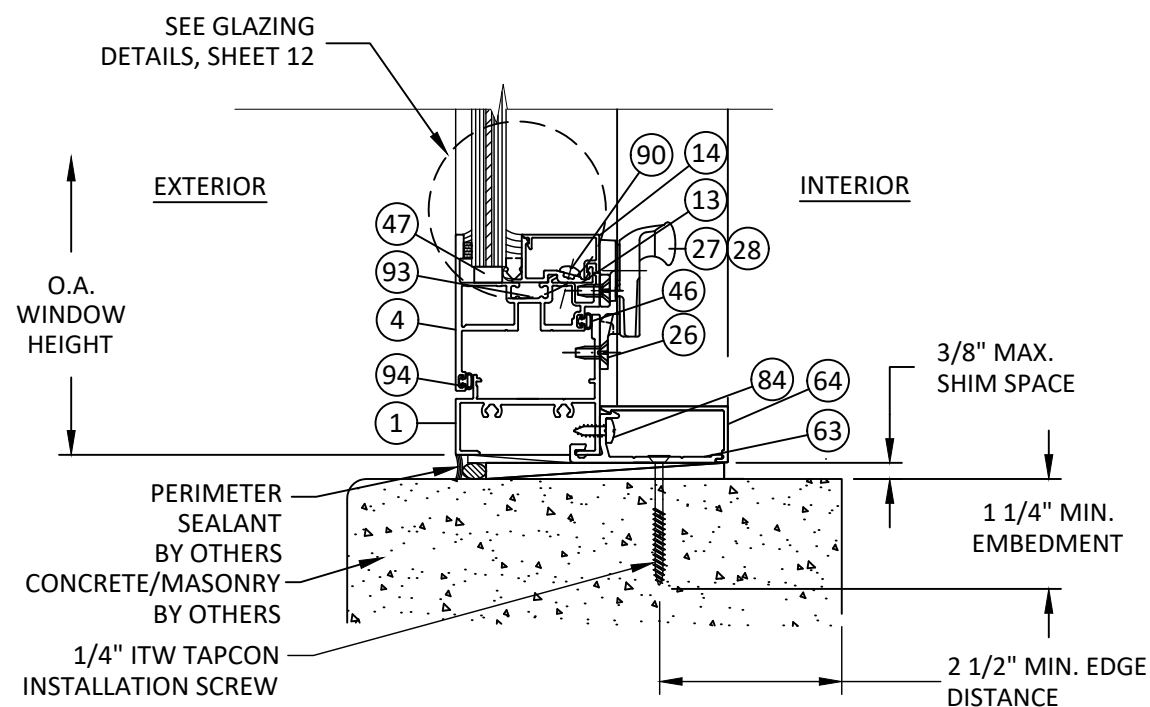
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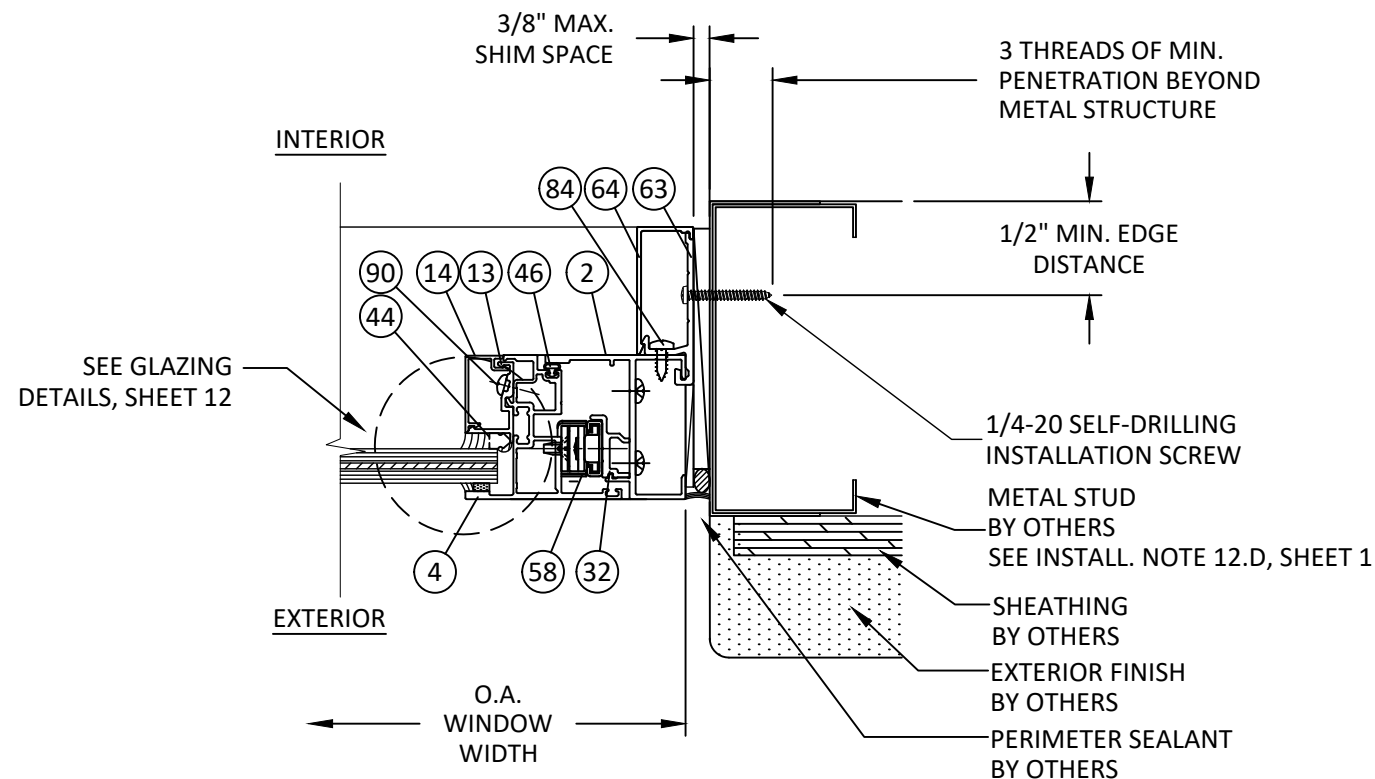
G
5 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
CLIP ANCHOR - TYP.



H
5 **VERTICAL SECTION**
FIXED HEAD - 1X/CONCRETE/MASONRY
CLIP ANCHOR - TYP.



F
5 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
CLIP ANCHOR - TYP.



I
5 **HORIZONTAL SECTION**
VENT JAMB - METAL STUD FRAME
CLIP ANCHOR - TYP.



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CLIP INSTALLATION DETAILS

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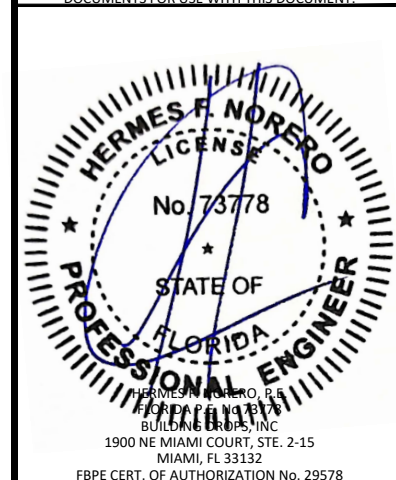
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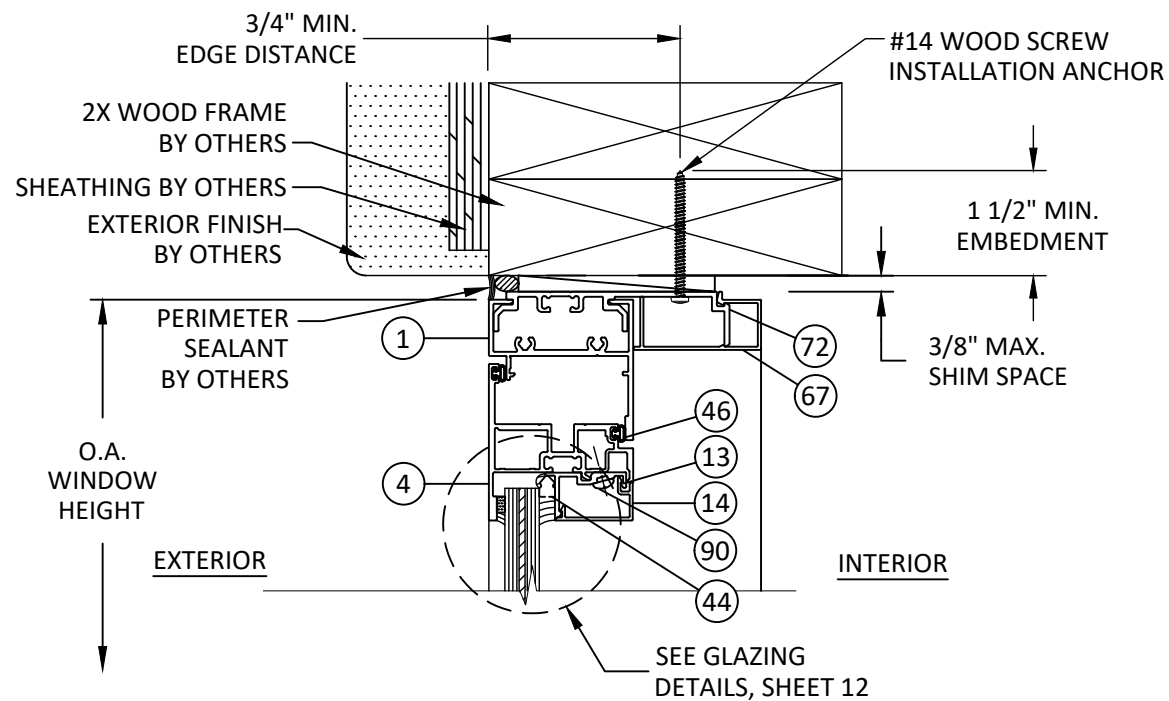
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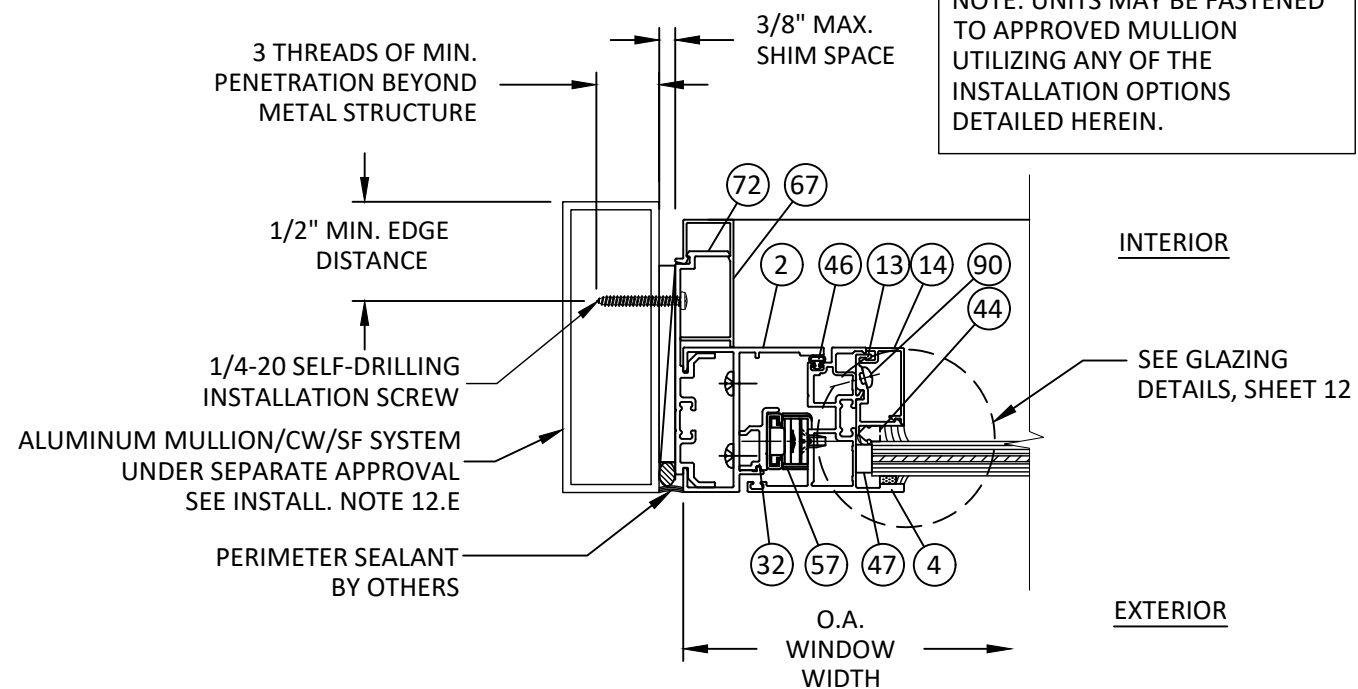
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DATE:	10.16.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK177
SHEET:	5
REV.	E

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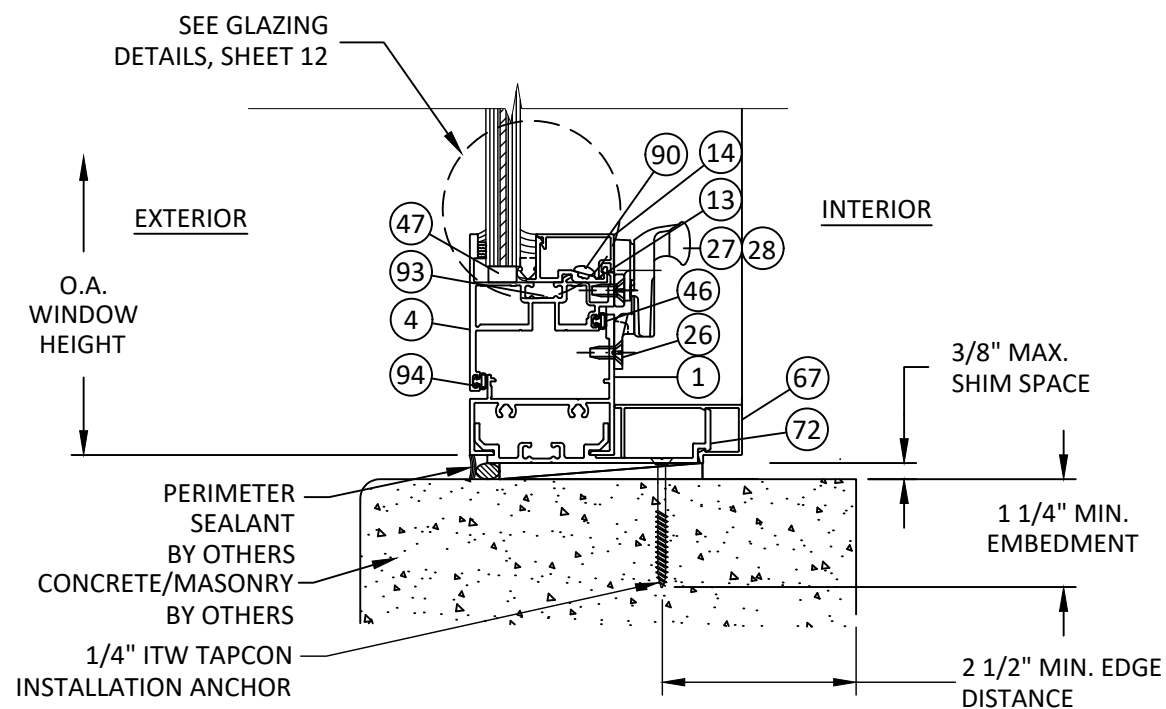
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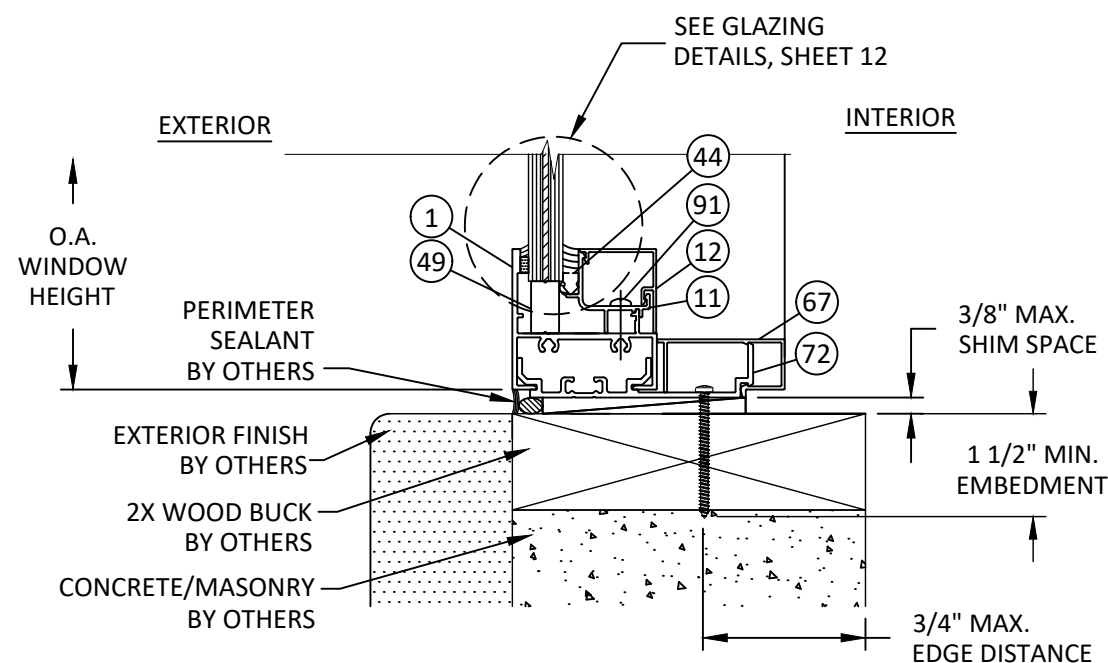
K
6 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP.



L
6 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
STRAP ANCHOR - TYP.



J
6 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
STRAP ANCHOR - TYP.



M
6 **VERTICAL SECTION**
FIXED SILL - 2X WOOD BUCK
STRAP ANCHOR - TYP.



YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 H NON-THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT)
STRAP INSTALLATION DETAILS
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

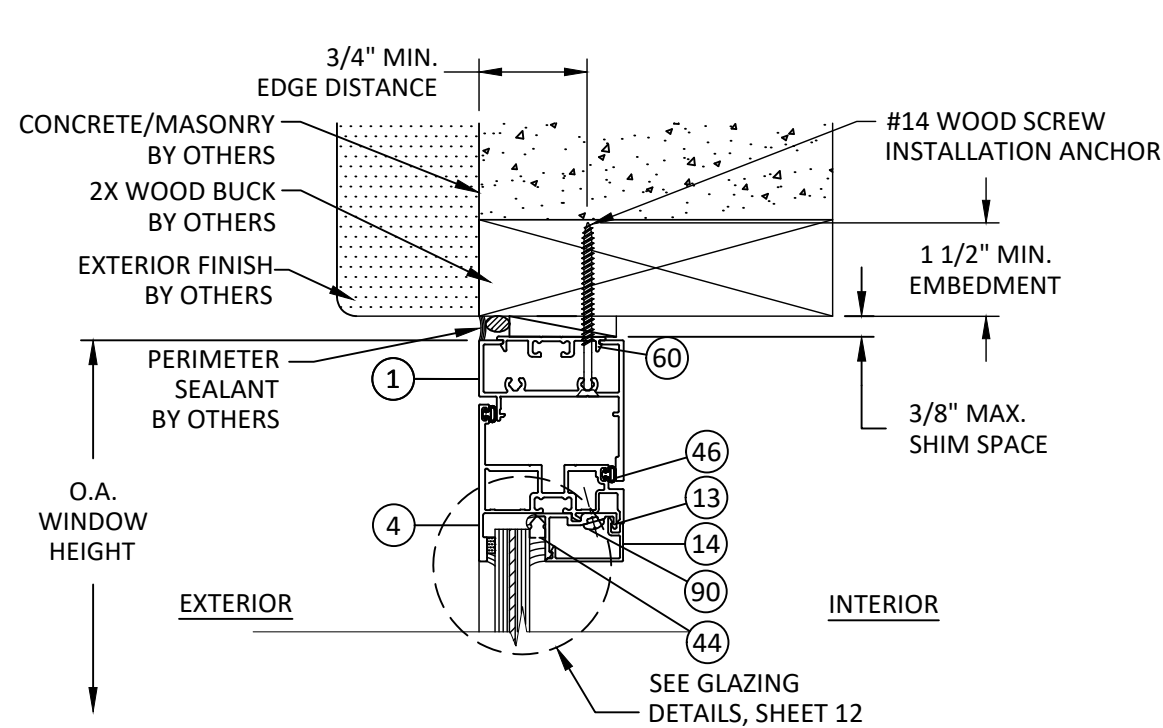
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7TH FBC CODE CHANGE	MS	04.16.20
8TH FBC CODE CHANGE	SH	06.01.23
MISC. UPDATE	SH	02.26.24
9TH FBC CODE CHANGE	SH	07.31.26

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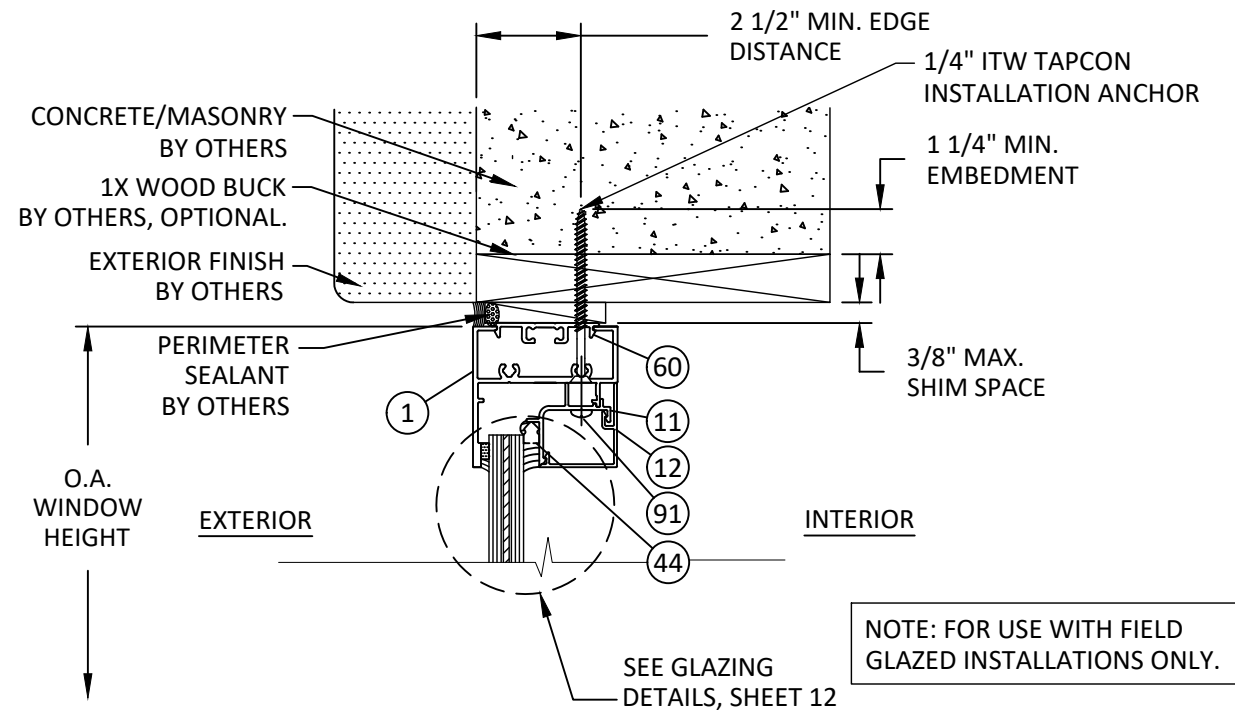


FL #:	FL16313
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK177
SHEET:	6
REV.	E

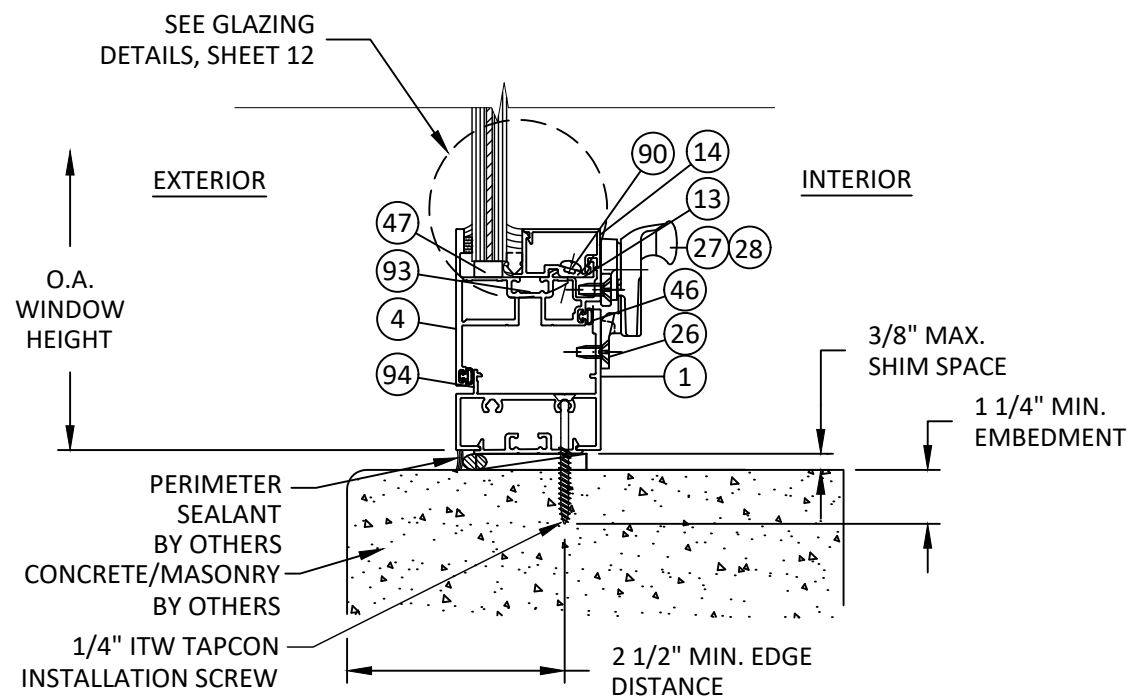
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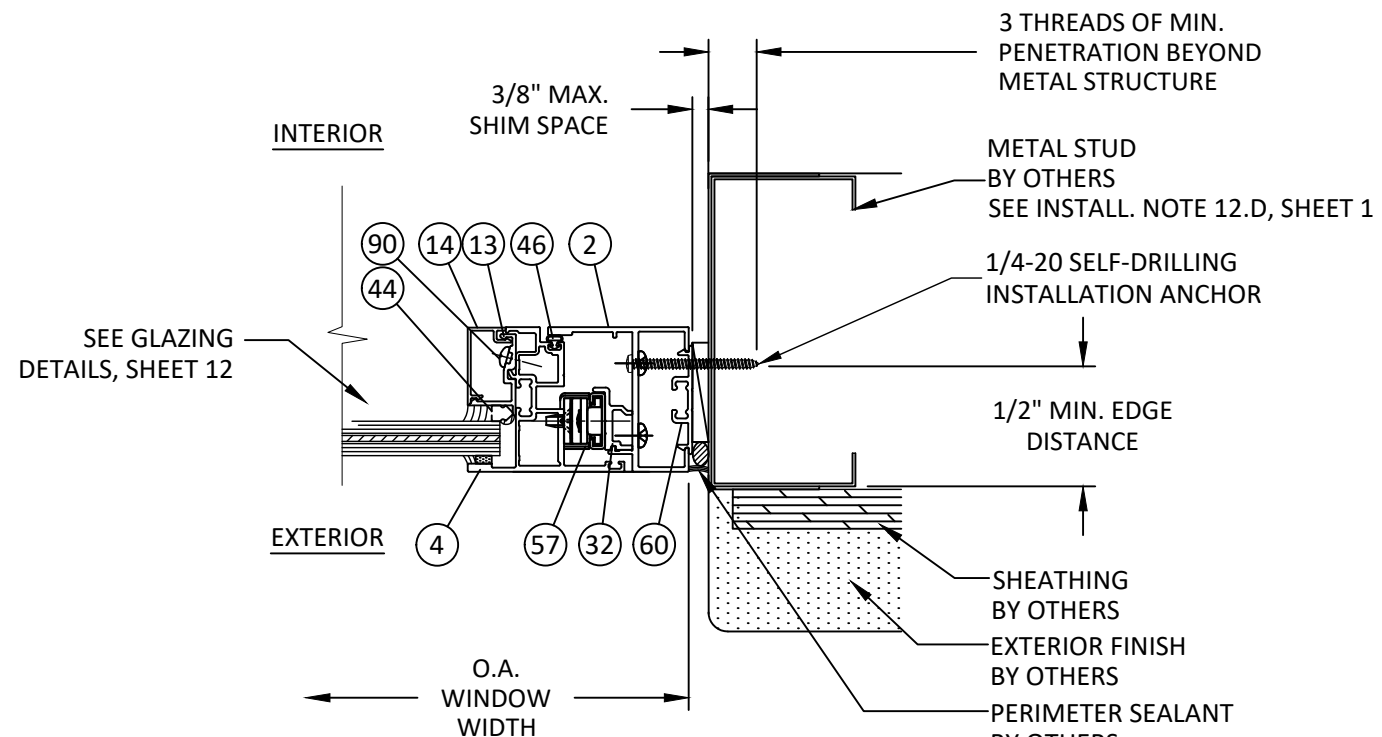
O7 VERTICAL SECTION
VENT HEAD - 2X WOOD BUCK
THROUGH FRAME - TYP.



P7 VERTICAL SECTION
FIXED HEAD - 1X/CONCRETE/MASONRY
THROUGH FRAME - TYP.



N7 VERTICAL SECTION
VENT SILL - CONCRETE/MASONRY
THROUGH FRAME - TYP.



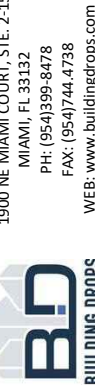
Q7 HORIZONTAL SECTION
VENT JAMB - METAL STUD FRAME
THROUGH FRAME - TYP.



YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

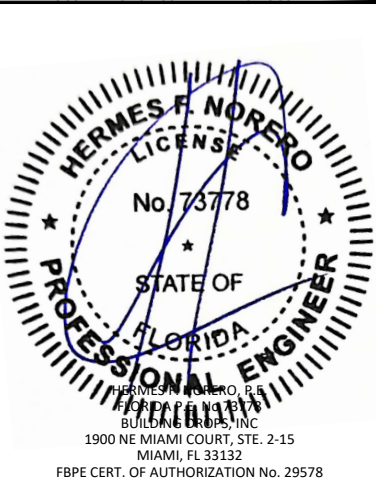
TITLE:
YOW 225 H NON-THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)
THROUGH FRAME
INSTALLATION DETAILS

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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MISC. UPDATE	SH	02.26.24
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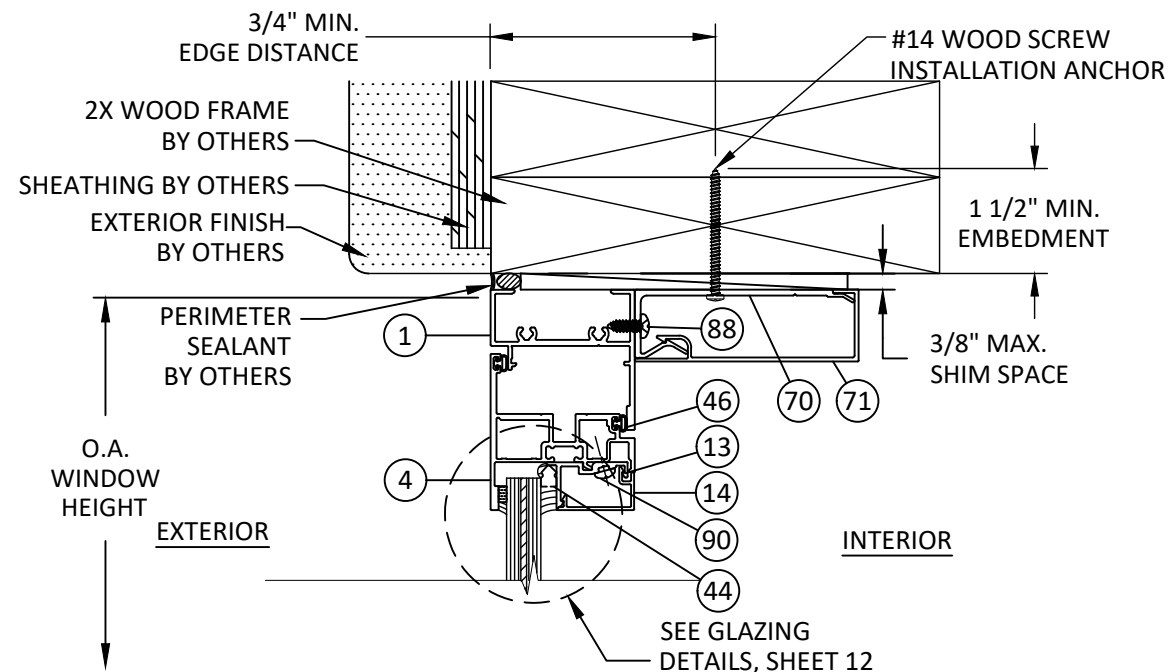
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DWG. #:	YKK177
SHEET:	7
REV.	E

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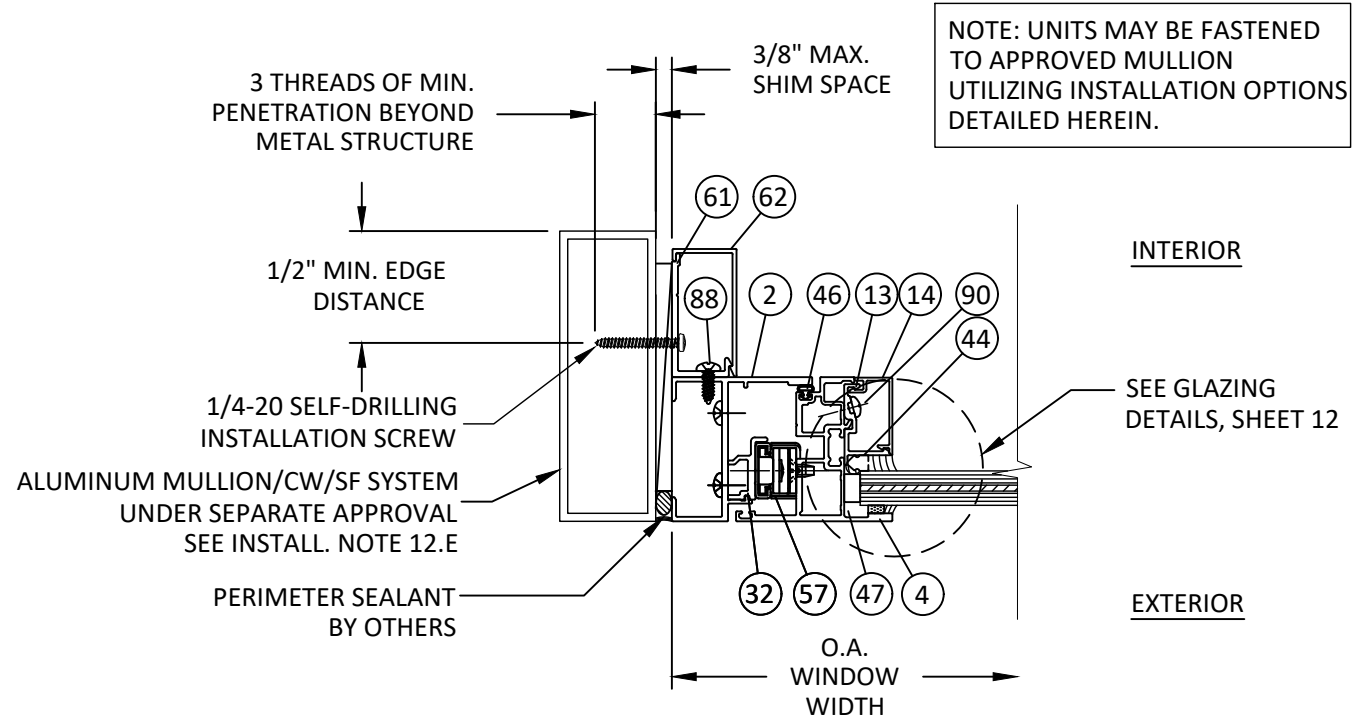
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S
8

VERTICAL SECTION

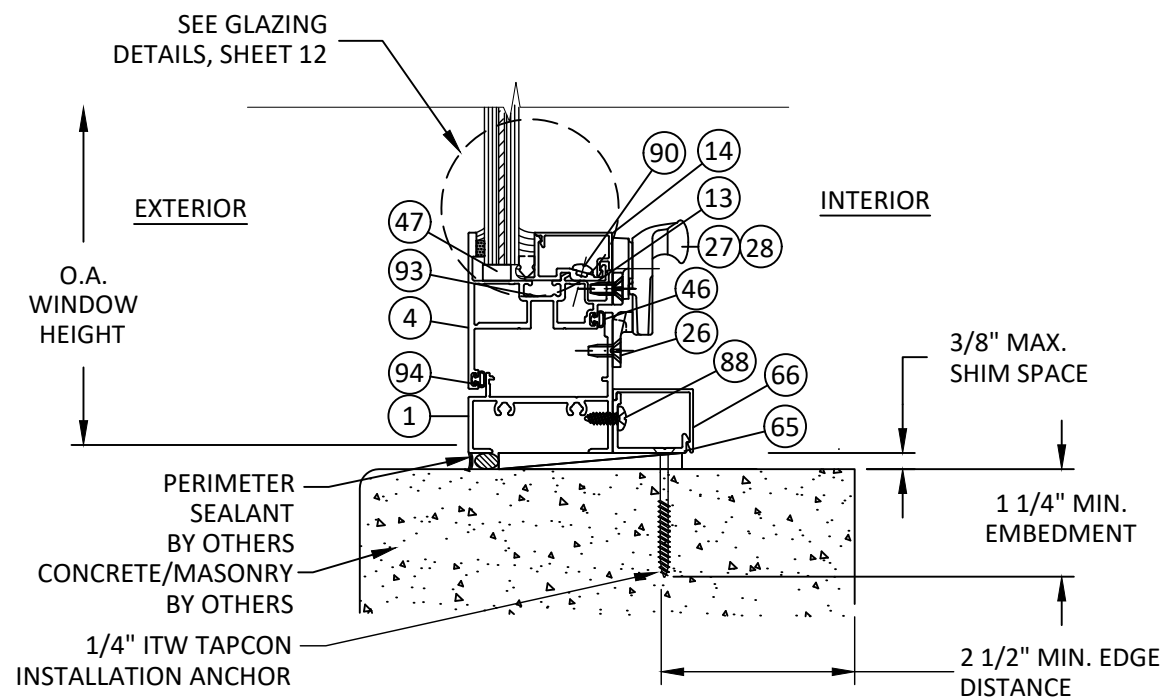
VENT HEAD - 2X WOOD FRAME
TRIM CLIP ANCHOR - TYP.



T
8

HORIZONTAL SECTION

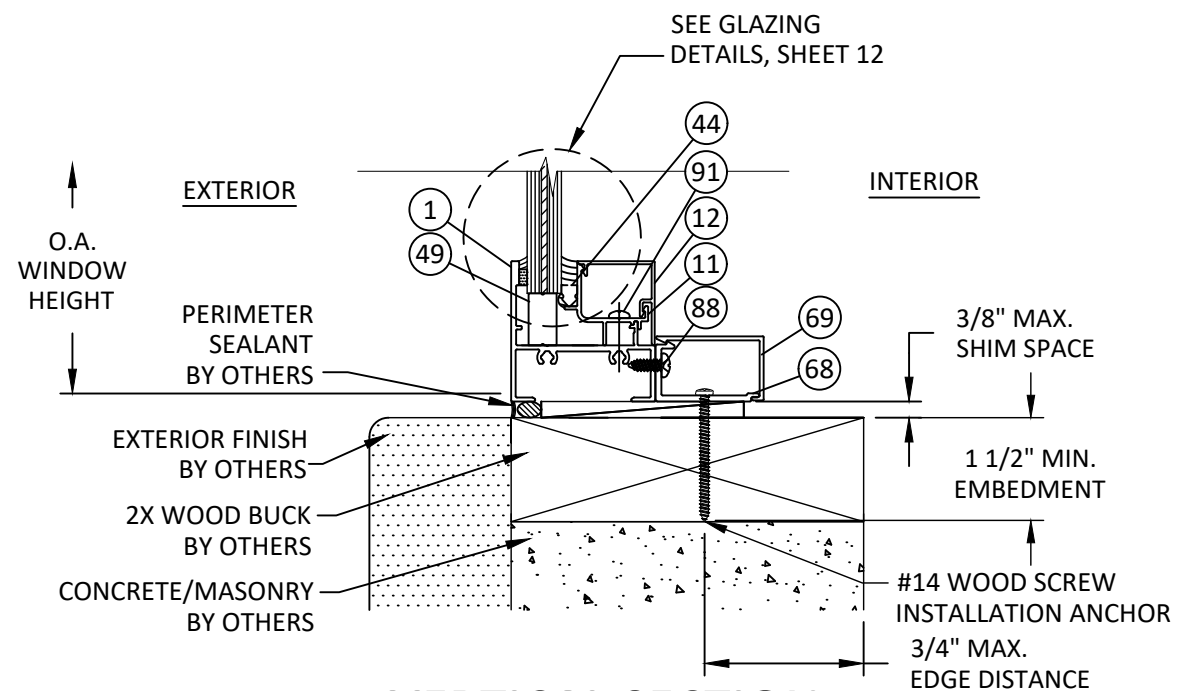
VENT JAMB - MULL TUBE FRAME
TRIM CLIP ANCHOR - TYP.



R
8

VERTICAL SECTION

VENT SILL - CONCRETE/MASONRY
TRIM CLIP ANCHOR - TYP.



U
8

VERTICAL SECTION

FIXED SILL - 2X WOOD BUCK
TRIM CLIP ANCHOR - TYP.

NOTE: UNITS MAY BE FASTENED TO APPROVED MULLION UTILIZING INSTALLATION OPTIONS DETAILED HEREIN.



YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 H NON-THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT)

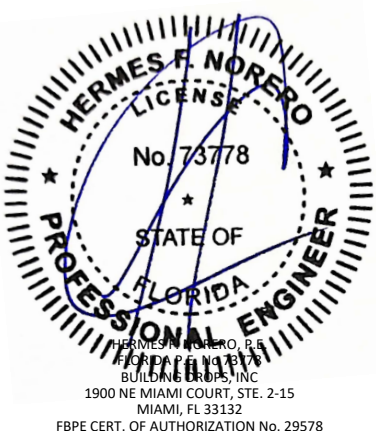
TRIM & CLIP ANCHOR INSTALLATION

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

BUILDING DROPS

REMARKS	BY	DATE
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MISC. UPDATE	SH	02.26.24
9TH FBC CODE CHANGE	SH	07.31.26

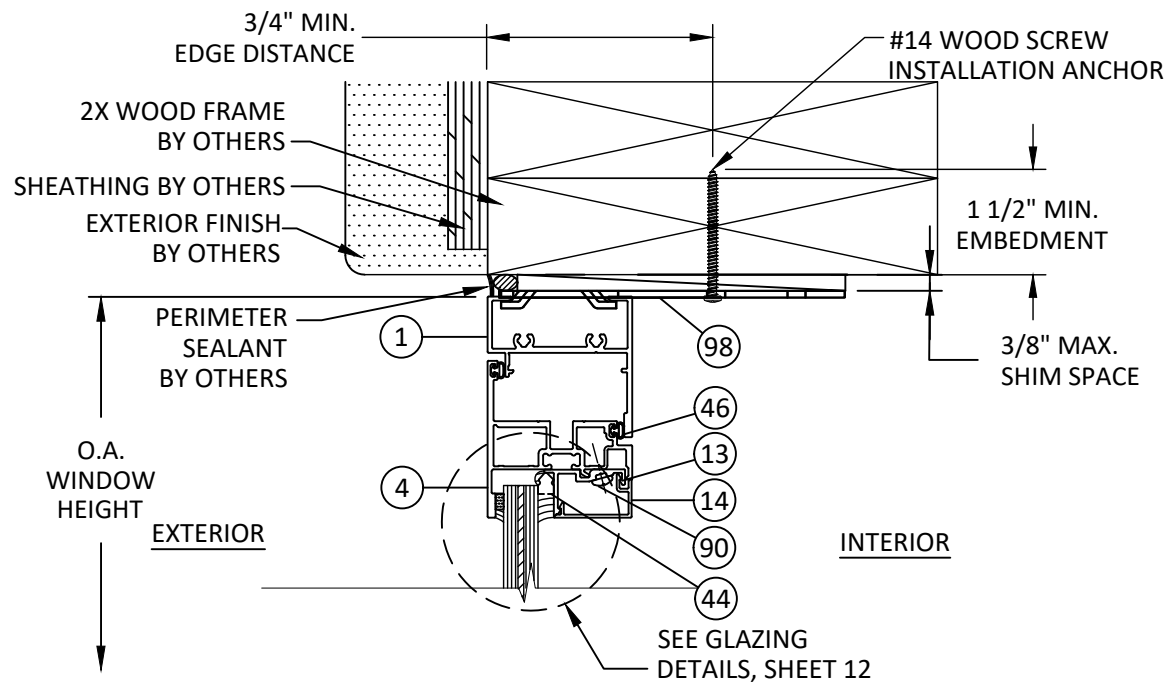
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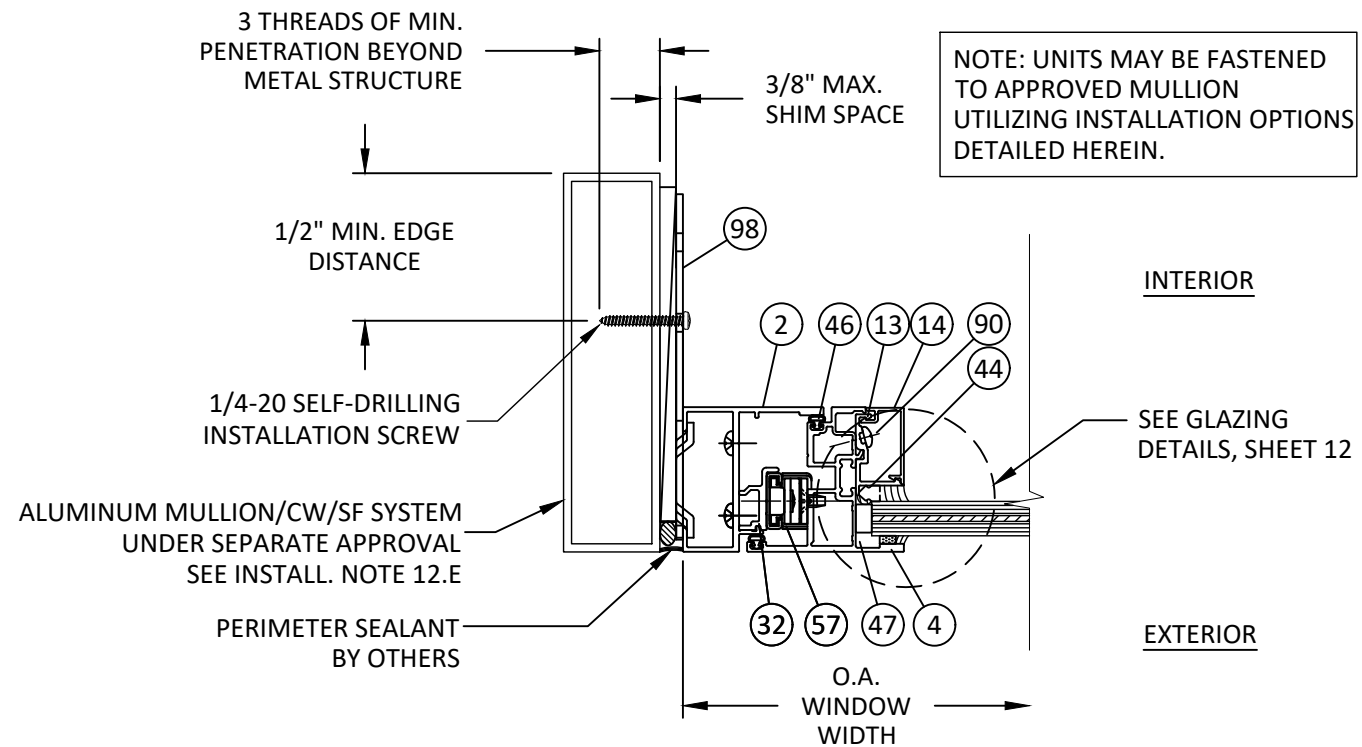
FL #:	FL16313
DATE:	10.16.17
DWG. BY:	AR
CHK. BY:	HFN
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DWG. #:	YKK177
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REV.	E

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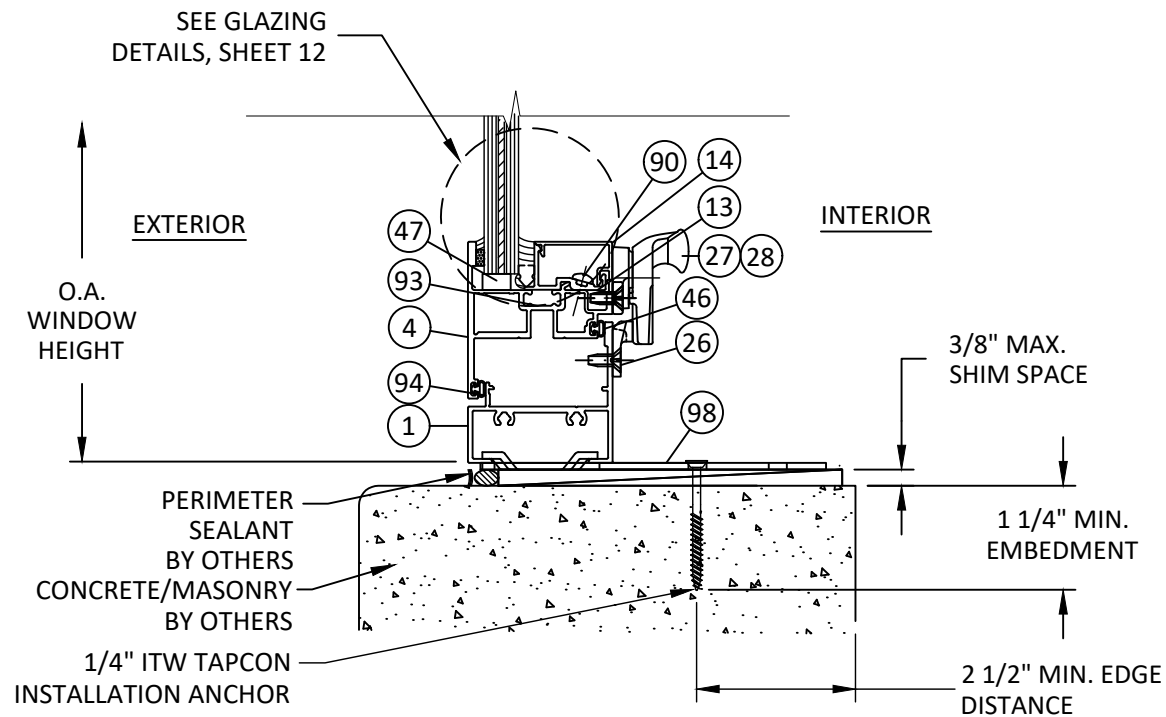
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W9 VERTICAL SECTION
VENT HEAD - 2X WOOD FRAME
TWIST ANCHOR - TYP.



X9 HORIZONTAL SECTION
VENT JAMB - MULL TUBE FRAME
TWIST ANCHOR - TYP.



V9 VERTICAL SECTION
VENT SILL - CONCRETE/MASONRY
TWIST ANCHOR - TYP.



YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 H NON-THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT)
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

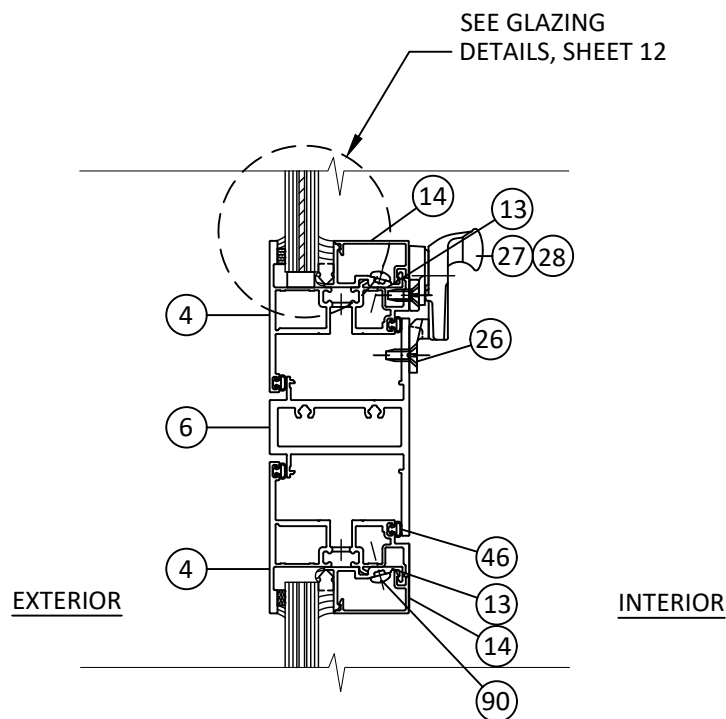
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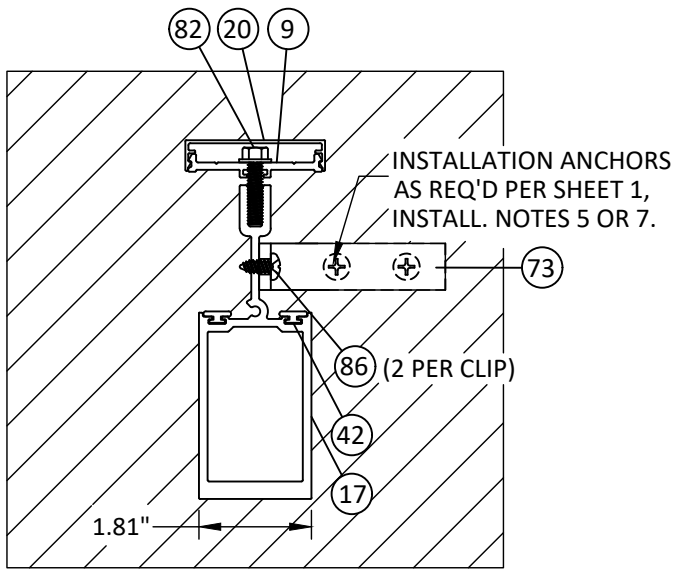


FL #:	FL16313
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REV.	E

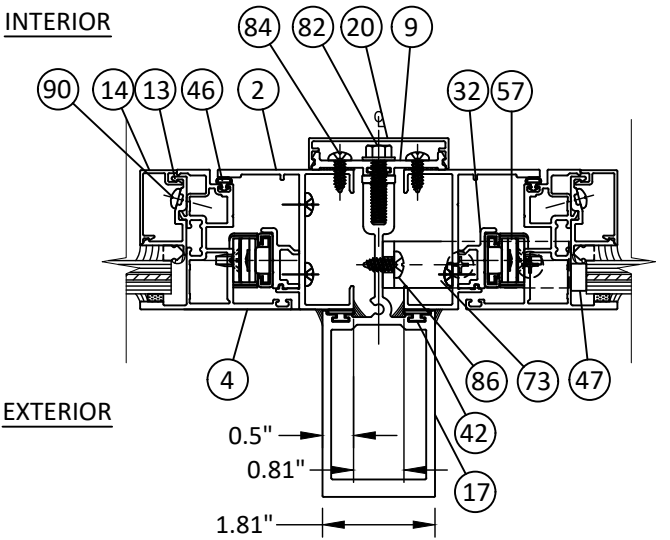
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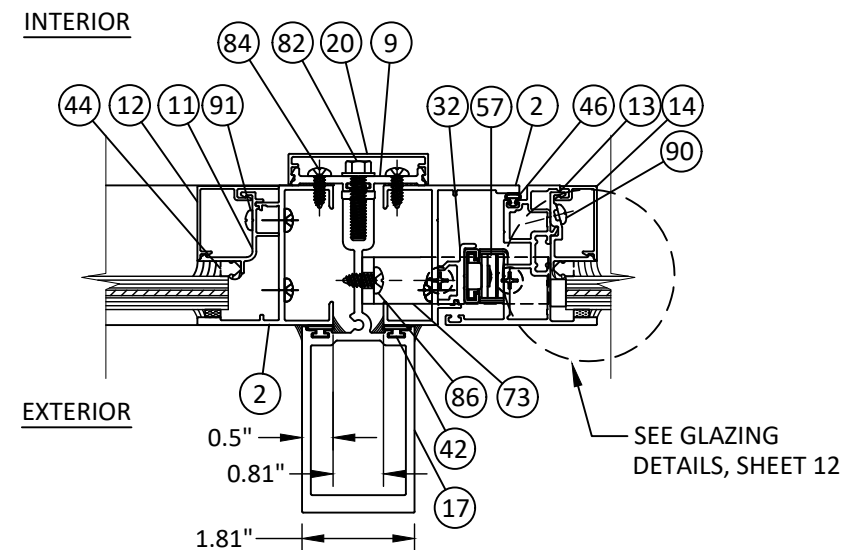
Z10 HORIZONTAL SECTION
PROJECT OUT - PROJECT OUT



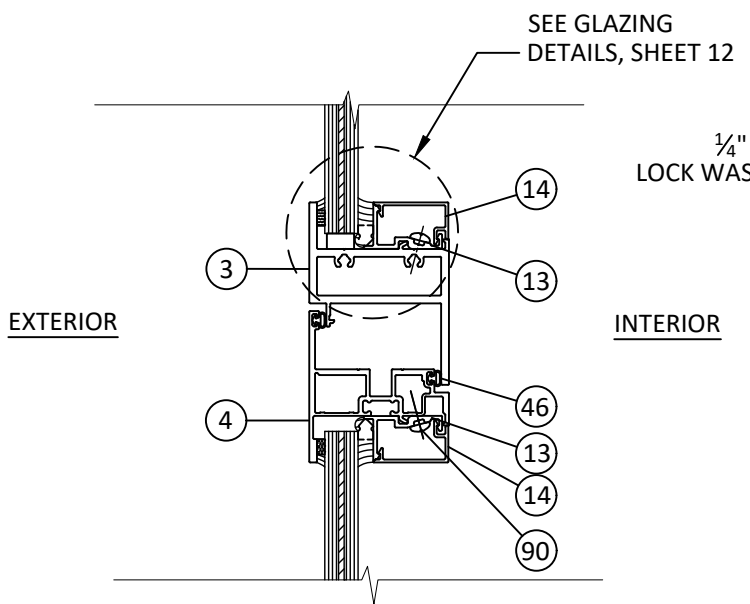
AA10 HORIZONTAL SECTION
STACK MULLION - TYP.
INSTALL TO WOOD/METAL FRAME



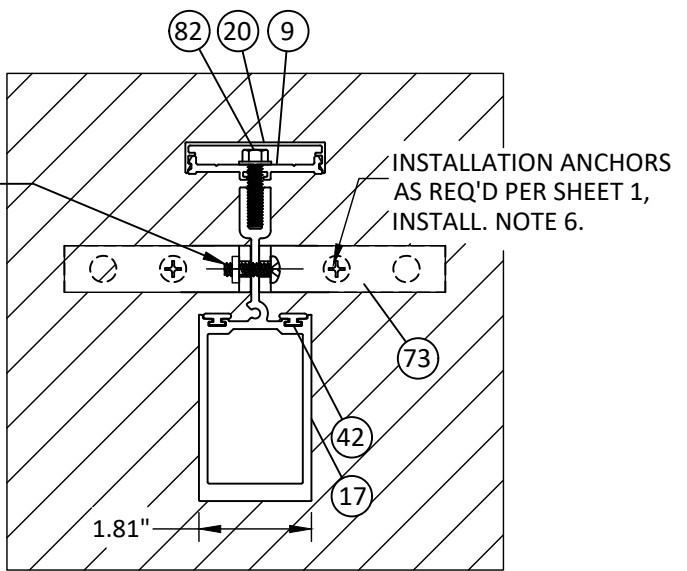
AC10 HORIZONTAL SECTION
STACK MULLION - TYP.
PROJECT OUT TO PROJECT OUT



AD10 HORIZONTAL SECTION
STACK MULLION - TYP.
FIXED TO PROJECT OUT



Y10 VERTICAL SECTION
INTEGRAL MULLION-TYP.
FIXED OVER PROJECT OUT



AB10 HORIZONTAL SECTION
STACK MULLION - TYP.
INSTALL TO CONCRETE/MASONRY

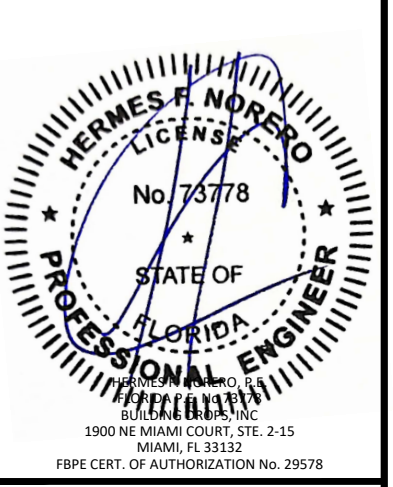


YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 H NON-THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT)
INTEGRAL & STACK MULL DETAILS
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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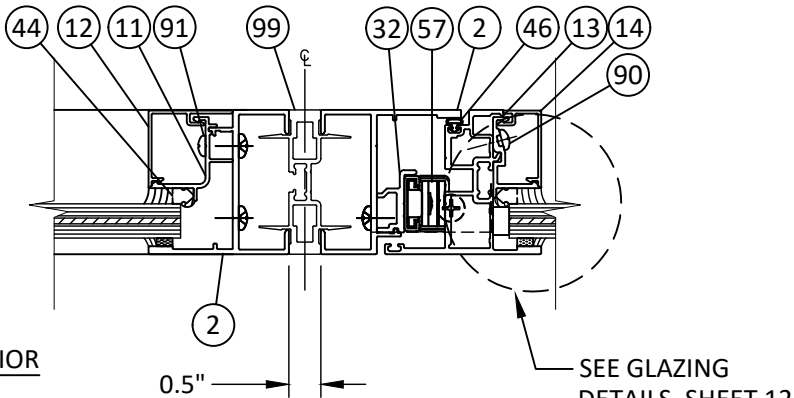


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DATE:		10.16.17	
DWG. BY: AR		CHK. BY: HFN	
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DWG. #:		YKK177	
SHEET:		REV. E	
10		OF 15	

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INTERIOR

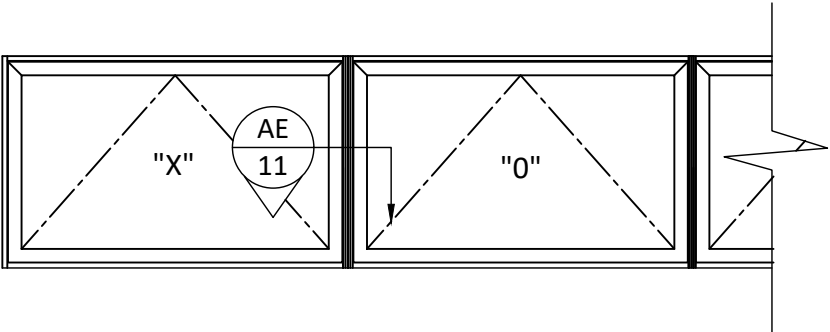
EXTERIOR



AE 11 HORIZONTAL SECTION
I MULLION - TYP.
FIXED TO PROJECT OUT

- NOTES:
1. I MULLION MAY BE USED ON A SINGLE ROW (SEE ELEVATION TO RIGHT) OF PROJECT OUT WINDOW (MAY BE MULLED TO FIXED WINDOW) UP TO THE MAXIMUM APPROVED PROJECT OUT VENT HEIGHT OF 48" AT +/- 65 PSF.
 2. CONFIGURATIONS OF FIXED WINDOWS OVER PROJECT OUT WINDOWS OR PROJECT OUT WINDOWS OVER FIXED WINDOWS MULLED TO ADJACENT WINDOWS SHALL BE EVALUATED FOR STRUCTURAL ADEQUACY ON A SITE BY SITE BASIS.
 3. MULL SPAN = VENT HEIGHT + 2"

I MULLION DESIGN PRESSURE		
VENT WIDTH	MULL SPAN	DESIGN PRESSURE
45	50	65.0
46	49	65.0
47	48	65.0
49	46	65.0
52	44	65.0
54	42	65.0
57	40	65.0
60	38	65.0
63	36	65.0
67	34	65.0
72	32	65.0
74	31	65.0



YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 H NON-THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)
I MULLION DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
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DATE: **10.16.17**

DWG. BY: **AR** CHK. BY: **HFN**

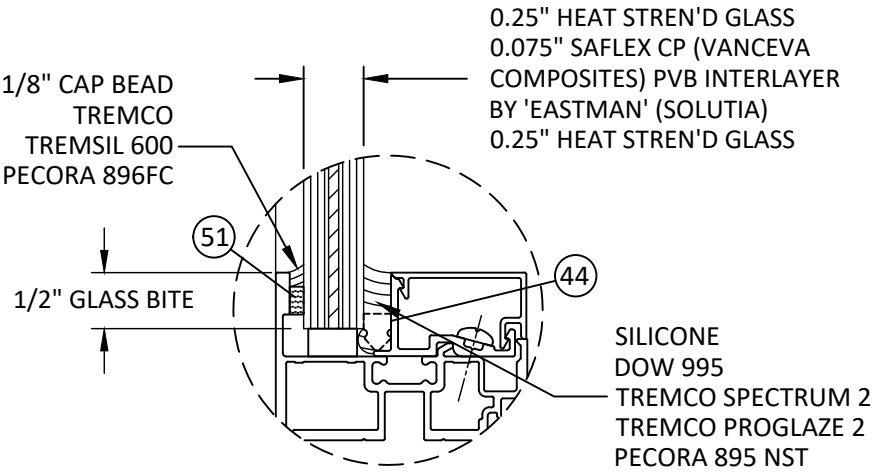
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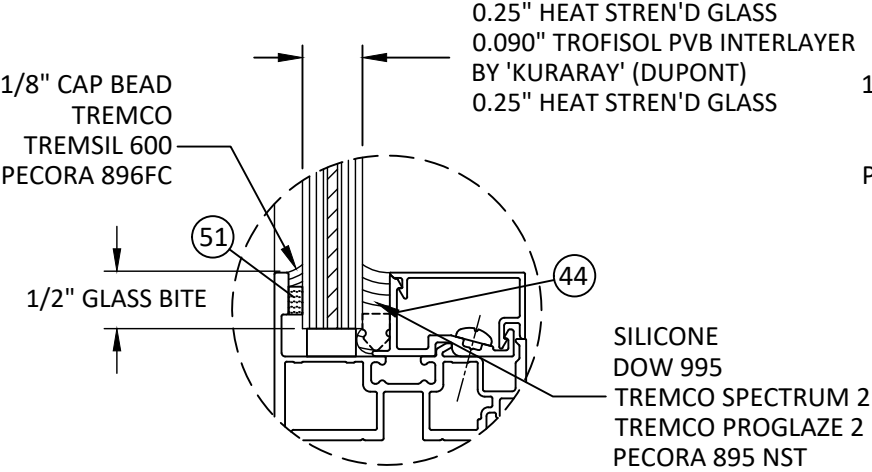
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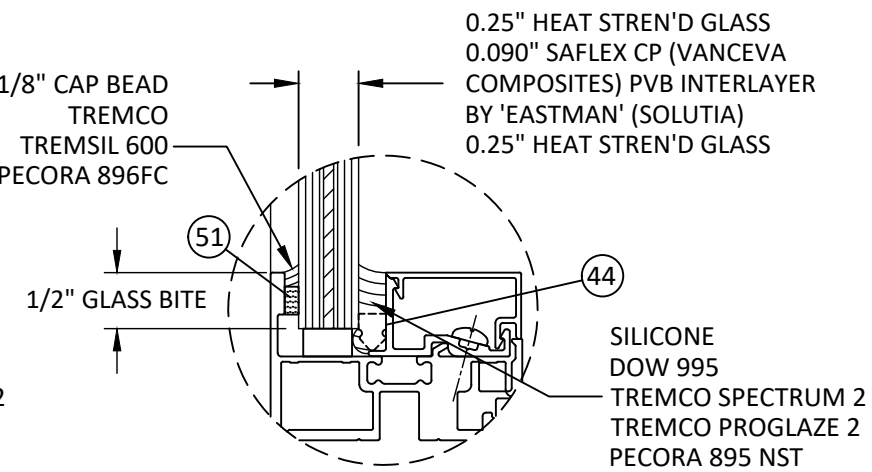
LARGE AND SMALL MISSILE IMPACT RATED GLAZING OPTIONS



GLAZING DETAIL A

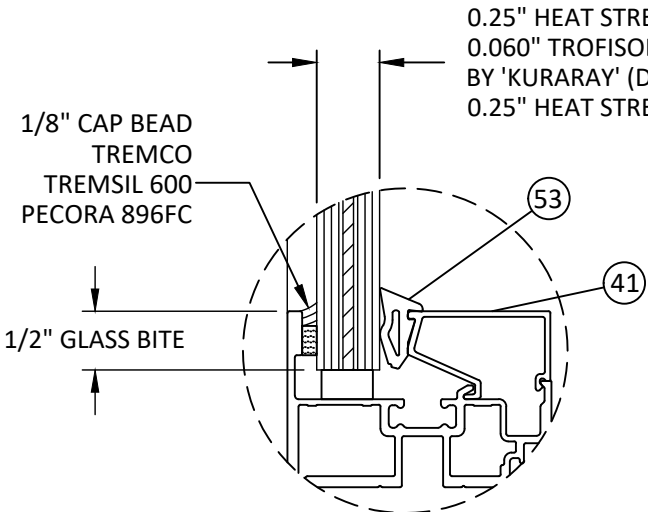


GLAZING DETAIL B

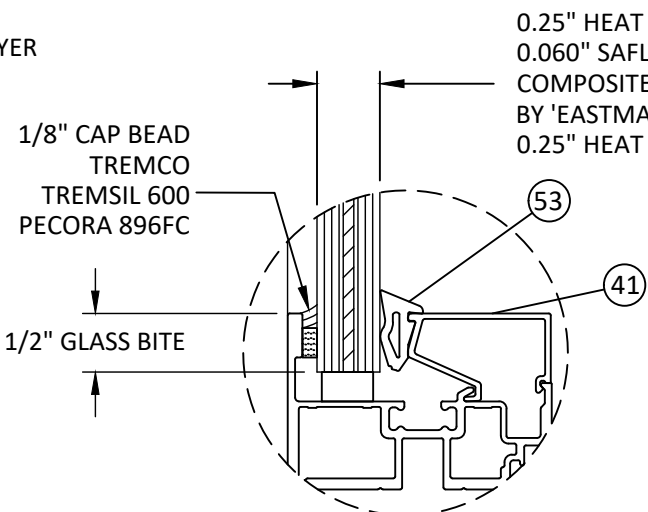


GLAZING DETAIL C

SMALL MISSILE IMPACT RATED GLAZING OPTIONS



GLAZING DETAIL D



GLAZING DETAIL E

GLAZING NOTES:

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

ALUMINUM BOX SPACER:

AROUND THE PERIMETER OF THE GLASS

PRIMARY SEALANT:

POLYISOBUTYLENE (PIB)

SECONDARY SEALANT:

STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATED GLASS UNITS.

MAX DESIGN PRESSURE PER GLASS TYPE (PSF)

VENT NOMINAL DIMS.		GLASS TYPE A, B, C, D OR E	
WIDTH (in.)	HEIGHT (in.)	EXT. (+)	INT. (-)
45	48	65.0	65.0
46	47	65.0	65.0
47	46	65.0	65.0
49	44	65.0	65.0
52	42	65.0	65.0
54	40	65.0	65.0
57	38	65.0	65.0
60	36	65.0	65.0
63	34	65.0	65.0
67	32	65.0	65.0
72	30	65.0	65.0
74	29	65.0	65.0



YKK AP America Inc.

101 MARIETTA STREET NW, SUITE 2100

ATLANTA, GA 30303

PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 H NON-THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT) GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954)399-8478

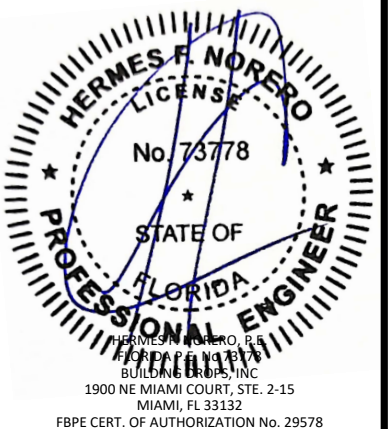
FAX: (954)744-4738

WEB: www.buildingdrops.com



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DWG. BY: **AR** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK177**

SHEET: **12** REV. **E**

OF 15

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YOW 225H BILL OF MATERIALS					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
1	E9-4536	FRAME HEAD AND SILL	6063-T5	YKK-AP	
2	E9-4537	FRAME JAMB	6063-T5	YKK-AP	
3	E9-4570	MULLION	6063-T5	YKK-AP	
4	E9-4534	VENT	6063-T5	YKK-AP	
5	E9-4538	COMMON FRAME	6063-T5	YKK-AP	
6	E9-4539	MULLION	6063-T5	YKK-AP	
7	BE9-4583	2-1/4" WEEPING SILL FLASHING	6063-T5	YKK-AP	
8	E9-4577	RECEPTOR	6063-T5	YKK-AP	
9	E9-4231	PRESSURE BAR	6063-T5	YKK-AP	
10	E9-4513	ADAPTOR	6063-T5	YKK-AP	
11	E9-4544	FIXED GLASS STOP	6063-T5	YKK-AP	
12	E9-4545	FIXED SNAP COVER	6063-T5	YKK-AP	
13	E9-4546	VENT GLASS STOP	6063-T5	YKK-AP	
14	E9-4547	VENT SNAP COVER	6063-T5	YKK-AP	
15	E9-4586	3" SILL TRIM	6063-T5	YKK-AP	
16	E9-4559	SILL TRIM BASE	6063-T6	YKK-AP	
17	E9-4562	STACKING MULLION	6063-T5	YKK-AP	
18	E9-4578	RECEPTOR STOP	6063-T5	YKK-AP	
19	E9-4593	LOCK BAR BASE	6063-T5	YKK-AP	
20	E9-5111	COVER	6063-T5	YKK-AP	
21	E9-7318	FIXED GLASS STOP	6063-T5	YKK-AP	
22	E9-7319	FIXED GLASS SNAP COVER	6063-T5	YKK-AP	
23					
24					
25					
26	E1-1519	KEEPER	WHITE BRONZE	BRONZE CRAFT	
27	E1-1541	CAM HANDLE - RH	WHITE BRONZE	BRONZE CRAFT	
28	E1-1542	CAM HANDLE - LH	WHITE BRONZE	BRONZE CRAFT	
29					
30	E1-1839	HINGE BASE 16" RH	6063-T5	YKK-AP	
31	E1-1840	HINGE BASE 16" LH	6063-T5	YKK-AP	
32	E1-1782	HINGE BASE 22"	6063-T5	YKK-AP	
33	E1-1786	CORNER BLOCK	6063-T5	YKK-AP	
34	E1-1787	CORNER BLOCK	6063-T5	YKK-AP	
35					
36					
37					
38					
39					
41	E9-4548	SMI GLASS STOP	6063-T5	YKK-AP	
42	E2-0051	AT GASKET	SANTOPRENE	TREMCO	
43	E2-0653	SIDE BLOCK	EPDM	TREMCO	
44	E2-0359	PUSH - IN - SPACER	SCR900	TREMCO	
45	E2-0367	PUSH - IN - SPACER	SCR900	TREMCO	
46	E2-0625	AT GASKET	SANTOPRENE	TREMCO	
47	E2-0623	SETTING BLOCK	EPDM	TREMCO	
49	E2-0652	SETTING BLOCK	EPDM	TREMCO	
50					
51	E2-0670	BACKER TAPE	POLYURETHANE FOAM	SAINT GOBAIN	
52	E2-0682	GASKET - RUBBER	BUTYL	BRONZE CRAFT	FOR MULTI LOCK HANDLE

YOW 225H BILL OF MATERIALS					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
53	E2-0672	WEDGE GASKET	EPDM		DUROMETER 70 +/-5
55	E3-1132	WEEP COVER	MOLDED POLYAMIDE 6	IPS USA	
56					
57	4K-14209	22" 4 BAR HINGE	STAINLESS STEEL	YKK-AP	
58	5K-15284	16" 4 BAR HINGE	STAINLESS STEEL	YKK-AP	
59					
60	E9-4566	THROUGH FRAME FILLER PLATE	6063-T5	YKK-AP	3" LONG @ EA. ANCHOR LOCATION
61	E9-4031	1" X 2" CLIP	6063-T5	YKK-AP	
62	E9-4032	1" X 2" COVER	6063-T5	YKK-AP	
63	E1-1922	ANCHOR CLIP	6063-T5	YKK-AP	
64	E9-4035	ANCHOR CLIP COVER	6063-T5	YKK-AP	
65	E9-4556	1 ¼" X 1" CLIP	6063-T5	YKK-AP	
66	E9-4557	1 ¼" X 1" COVER	6063-T5	YKK-AP	
67	E9-8431	STRAP ANCHOR COVER	6063-T5	YKK-AP	
68	E9-8537	1" X 1 1¼" CLIP	6063-T5	YKK-AP	
69	E9-8538	1" X 1 1¼" COVER	6063-T5	YKK-AP	
70	E9-8562	1 ½" X 3 ½" CLIP	6063-T5	YKK-AP	
71	E9-8563	1 ½" X 3 ½" COVER	6063-T5	YKK-AP	
72	E9-4529	STRAP ANCHOR	6063-T5	YKK-AP	MIN. LENGTH: 4-1/2"
73	E1-1965	MULLION CLIP at ¾"	6063-T5	YKK-AP	
74	E1-2003	END DAM	6063-T5	YKK-AP	
75	E2-0768	JAMB BLOCK			AT BOTTOM OF JAMB WITH SILL FLASHING
76					
77					
78					
79	FF-1012-SS	#10-24 X 3/4" FH MS SS F	300 SS		FOR 4 BAR HINGE BASE
80					
81					
82	HD-2516-W3	1/4-20 X 1" HWHS SS	300 SS		1 1/2" FROM EA. END & 9" MAX. O.C.
83					
84	PC-1008 -SS	#10 X 1/2" PH SMS SS AB	300 SS		6" FROM EA. END & 12" MAX. O.C.
85	PC-1016-SS	#10 X 1" PH SMS SS AB	300 SS		FOR FRAME ASSEMBLY
86	PC-1208-SS	#12X1/2" PH SMS SS AB	300 SS		(2) PER CLIP TO MULLION
87	PF-1006-SS	#10-24 X 3/8" FH MS SS F	300 SS		FOR 4 BAR HINGE
88		#10 X 1/2" PH SMS	SAE GR. 5		3" FROM EA. END & 7 1/8" MAX. O.C.
89					
90	PS-0808-SS	#8 X 1/2" PH SMS SS SELF DRILLING	410 SS		3" FROM EA. END & 10" O.C.
91	PS-1016-SS	#10 X 1" PH SMS SS SELF DRILLING	410 SS		3" FROM EA. END & 10" O.C.
92					
93		9/32" DIA. WEEP HOLE			AT CENTER OF BOTTOM RAIL
94		1 1/16" X 1/4" WEEP SLOT			AT CENTER OF EA. W.O. AT FRAME SILL
95					
96		#10-16 x 3/4" SSMS (PH OR FH)			3" FROM CORNERS, SILICONE AT HOLES
97		DOW 995 SILICONE ADHESIVE	SILICONE		MIN. 4" BEADS AT MAX. 24" O.C.
98	E1-1970	TWIST ANCHOR	GALVANIZED STEEL		
99	E9-4579	I MULLION	6063-T5		
100		PECORA 895 NST SILICONE ADHESIVE	SILICONE		
101		TREMCO SPECTRUM 2 ADHESIVE	SILICONE		
102		TREMCO PROGLAZE 2 ADHESIVE	SILICONE		
103	PC-0806SS	#8 X ⅜" PHSMS TYPE AB	STAINLESS STEEL		
104	E9-4587	4" SILL TRIM	6063-T5	YKK-AP	



Quality
inspires™

YKK AP America Inc.

101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 H NON-THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)

BILL OF MATERIALS

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



REMARKS	BY	DATE
7TH FBC CODE CHANGE	MS	04.16.20
8TH FBC CODE CHANGE	SH	06.01.23
MISC. UPDATE	SH	02.26.24
9TH FBC CODE CHANGE	SH	07.31.26
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.		

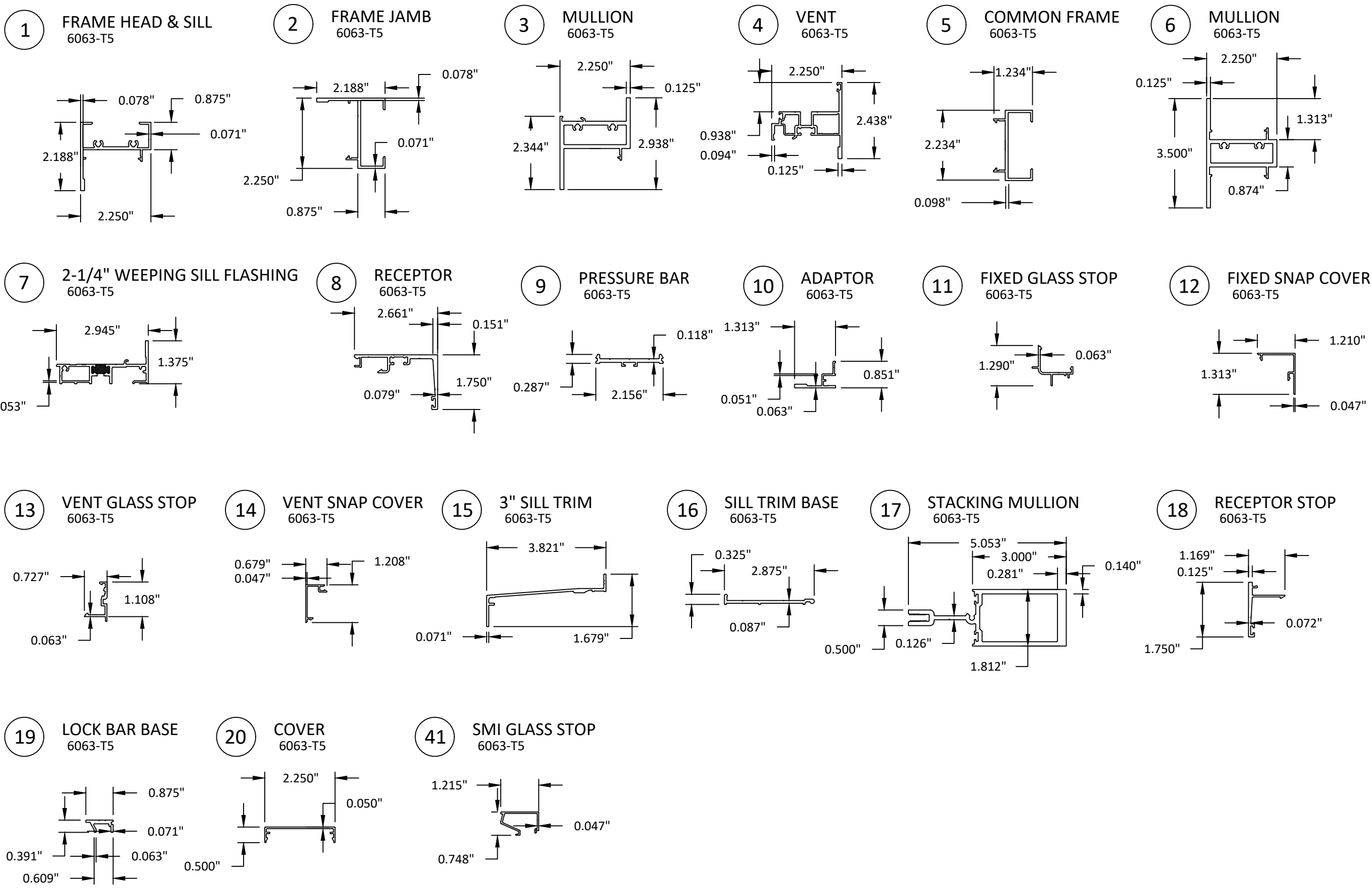


HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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 #:	
FL16313	
DATE: 10.16.17	
DWG. BY: AR	CHK. BY: HFN
SCALE: NTS	
DWG. #: YKK177	
SHEET:	REV. E
13 OF 15	

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YKK AP America Inc.
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TITLE: YOW 225 H NON-THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT) COMPONENTS 1

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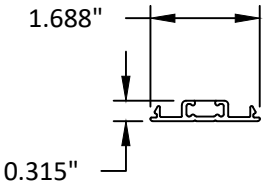
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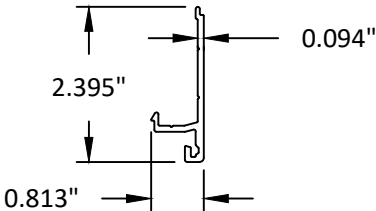
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THROUGH FRAME FILLER PLATE
6063-T5



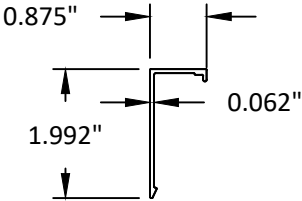
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ANCHOR CLIP
6063-T5



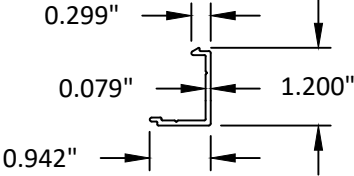
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ANCHOR CLIP
6063-T5



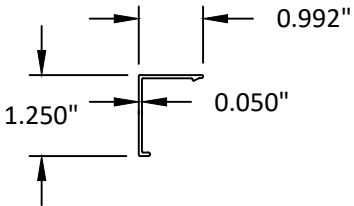
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1 1/4" X 1" CLIP
6063-T5



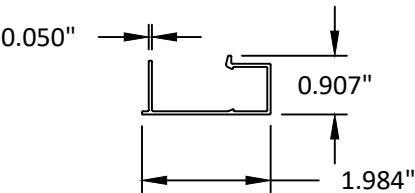
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1 1/4" X 1" COVER
6063-T5



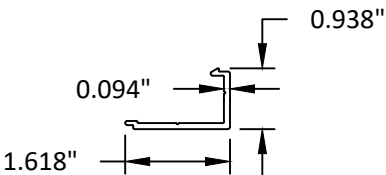
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STRAP ANCHOR COVER
6063-T5



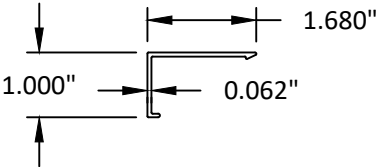
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1" X 1 11/16" CLIP
6063-T5



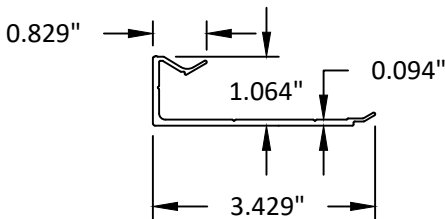
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1" X 1 11/16" COVER
6063-T5



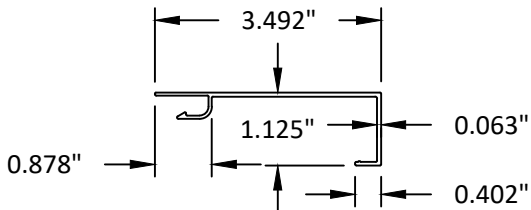
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1 1/8" X 3 1/2" CLIP
6063-T5



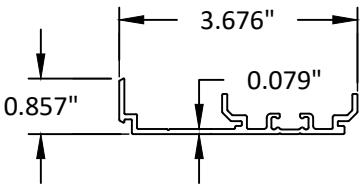
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1 1/8" X 3 1/2" COVER
6063-T5



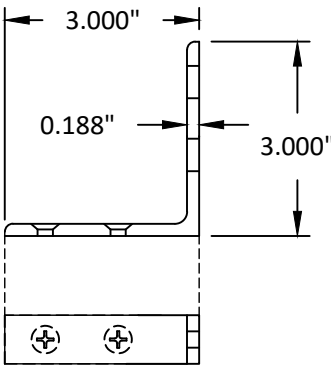
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STRAP ANCHOR
6063-T5
MINIMUM 4 1/2" LENGTH



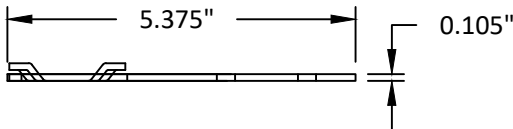
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MULLION CLIP
6063-T5



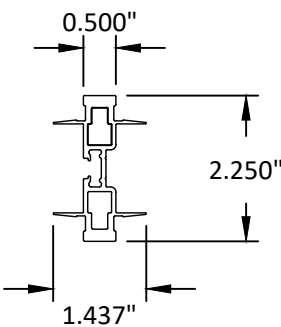
98

TWIST ANCHOR
GALV. STEEL



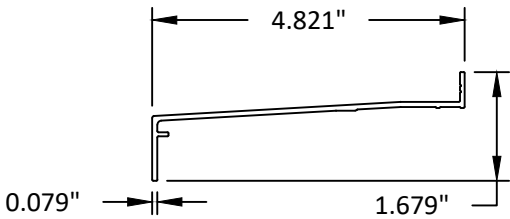
99

I MULLION
6063-T5



104

4" SILL TRIM
6063-T5



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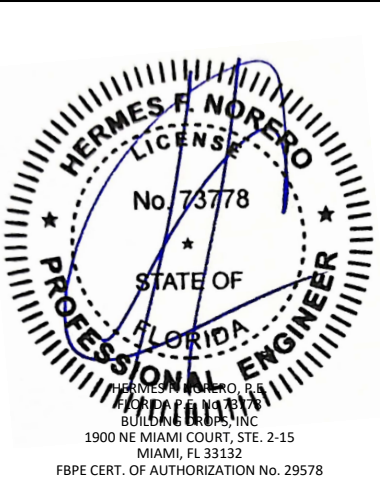
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