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INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION UNLESS OTHERWISE SHOWN.
- 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.
- 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.
- FOR INSTALLATION INTO WOOD FRAMING USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- 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.
- 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.
- 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.
 - 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.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM 0.067 INCH THICK, 6063-T5 ALUMINUM.
- INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEMS.

YKK AP AMERICA INC.

YOW 225 TUH THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT)

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:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - ASTM E1886-13a
 - ASTM E1996-14a
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
- 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.
- 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 WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN WIND ZONE 4.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEETS 12 & 13 FOR GLAZING DETAILS.
- GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS PER THE FBC.
- GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
- GLAZING GASKETS SHALL MEET THE MINIMUM PERFORMANCE REQUIREMENTS AS APPLICABLE IN CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

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PROJECTED WINDOW DESIGN PRESSURE TABLE			
MAX. VENT SIZE	MAX. DLO SIZE	MAX. DP	IMPACT RATING
60" X 36"	55-1/8" X 31-1/8"	SEE SHEET 3	SEE SHEETS 12 & 13

NOTE:

- MAX SINGLE SIZE AS-TESTED VENT SIZE LISTED, SEE SHEET 3 FOR APPROVED SIZES, HARDWARE AND DESIGN PRESSURES AND SHEET 2 FOR QUALIFIED MULTI UNIT MULLED CONFIGURATIONS.



YKK AP America Inc.

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TITLE:
YOW 225 TUH THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)

INSTALLATION &
GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.

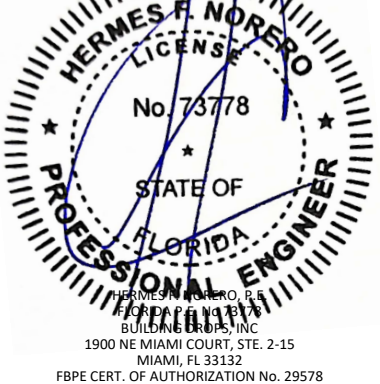
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8TH FBC CODE CHANGE	SH	06.01.23
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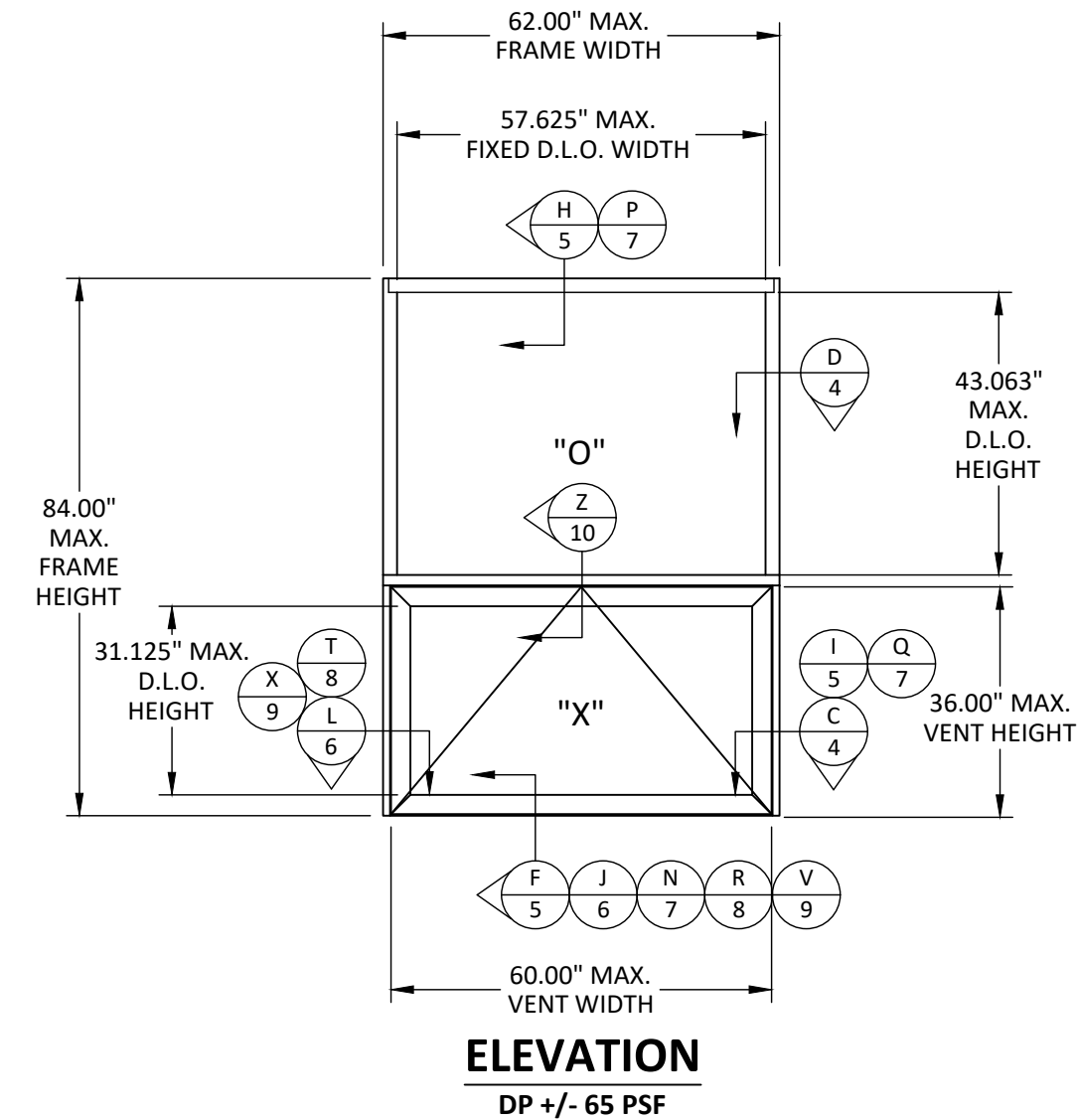
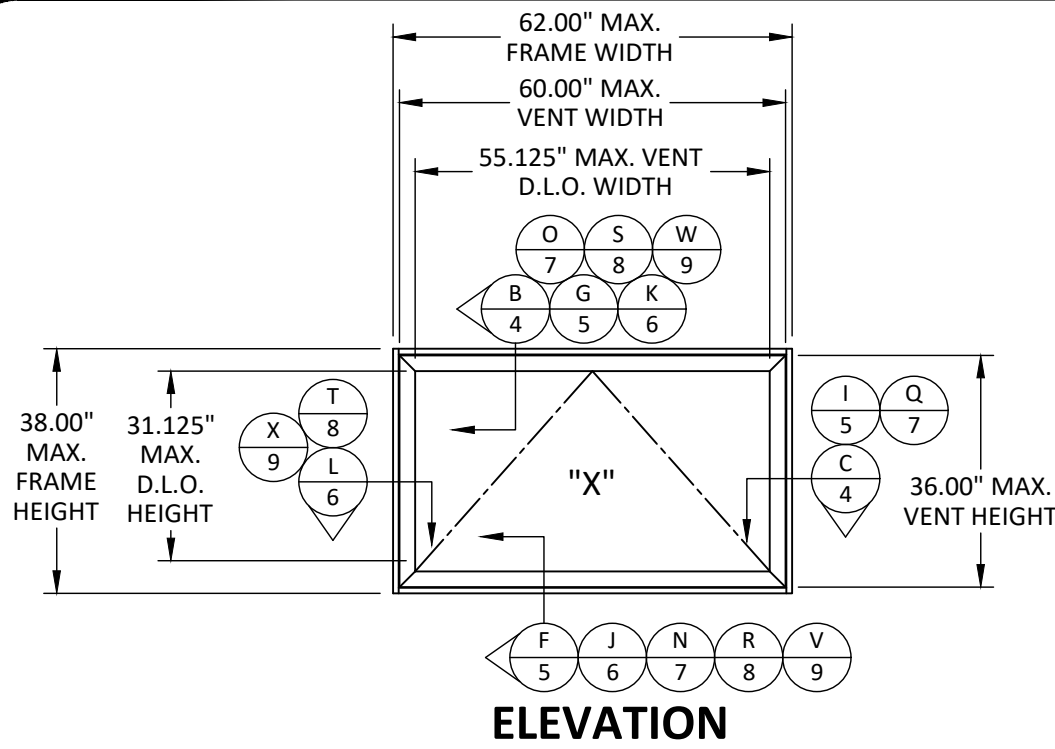
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2024.02.28 11:42:54 -0800



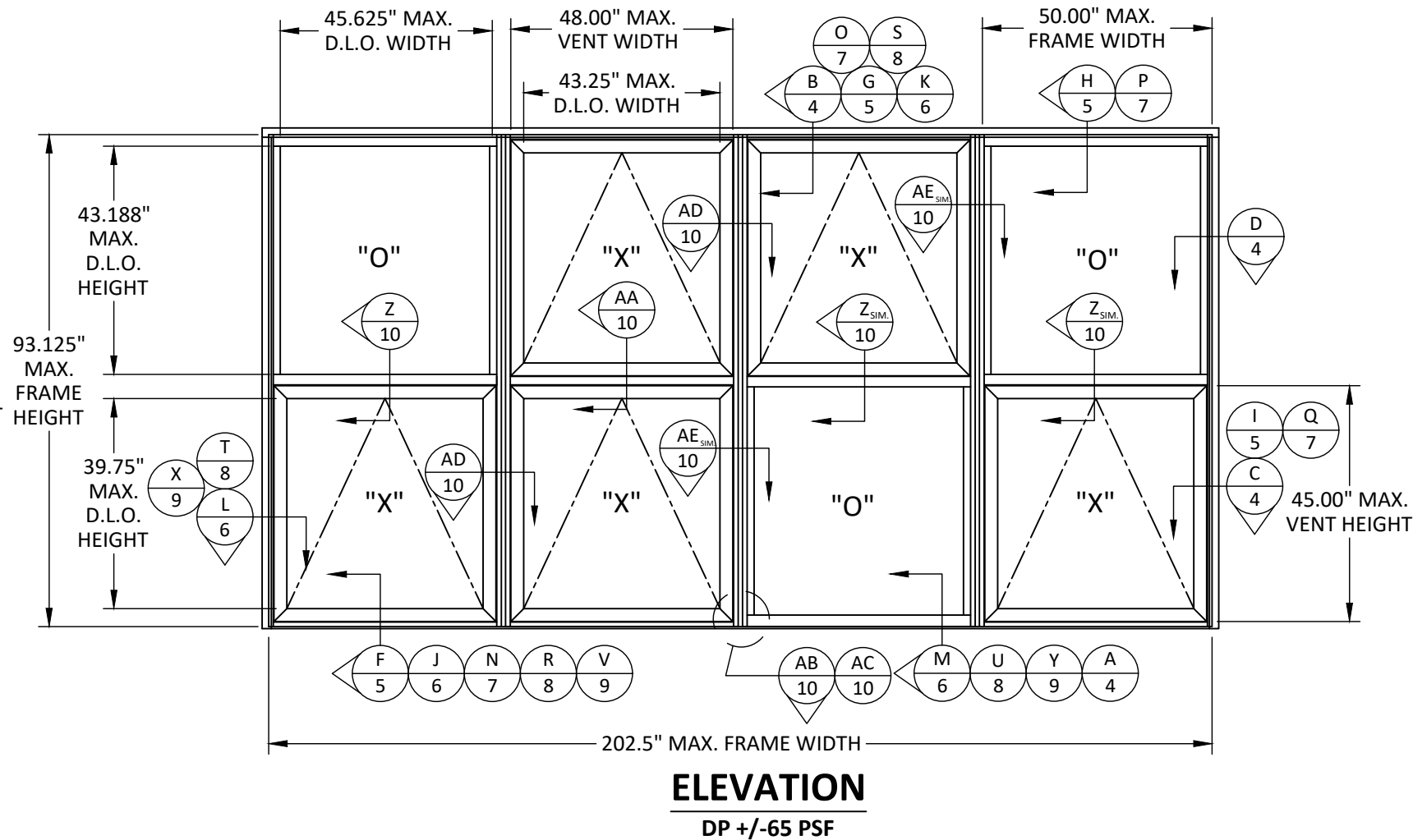
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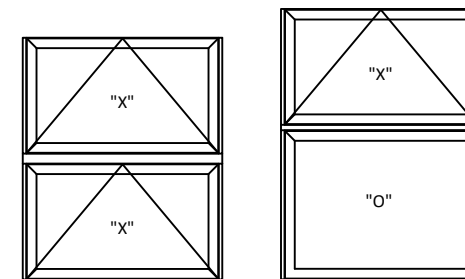


NOTE: SEE TABLES IN SHEET 3 FOR MAX. VENT SIZES

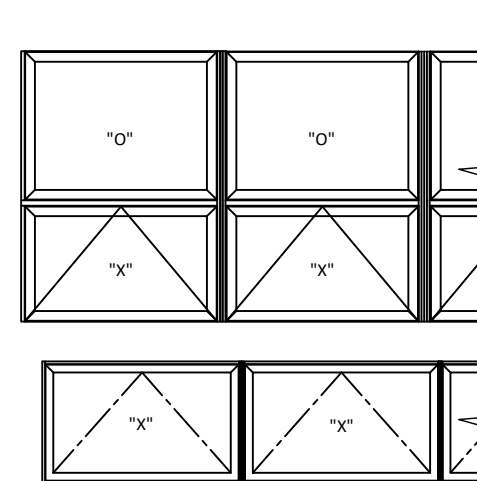
NOTE: MAX. DIMENSIONS SHOWN MAY EXCLUDE RECEPTOR DIMENSIONS. SEE DETAILS SHEET 4 FOR O.A. DIMENSION LOCATIONS.



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 TABLES IN SHEET 3 FOR MAX. VENT & FIXED LITE SIZES.



NOTE:
UNITS MAY BE MULLED SIDE BY SIDE IN COMBINATIONS OF PROJECT OUT/FIXED, PROJECT OUT/CASEMENT, AND/OR OTHER APPROVED WINDOW TYPES (SEE APPROVED INSTALLATION INSTRUCTIONS YKK182 & YKK184). MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL. FIXED WINDOWS AND OTHER ALTERNATE WINDOW TYPES UNDER SEPARATE APPROVAL.



YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 TUI THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)

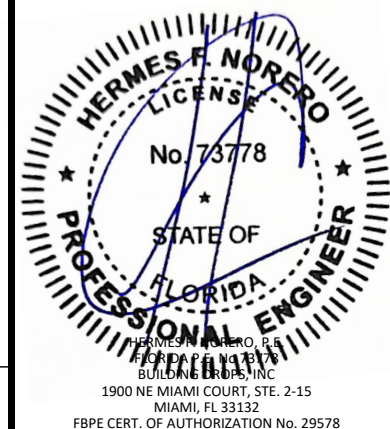
ELEVATIONS & QUALIFIED
CONFIGURATIONS

PREPARED BY:
BUILDING DROPS, INC.
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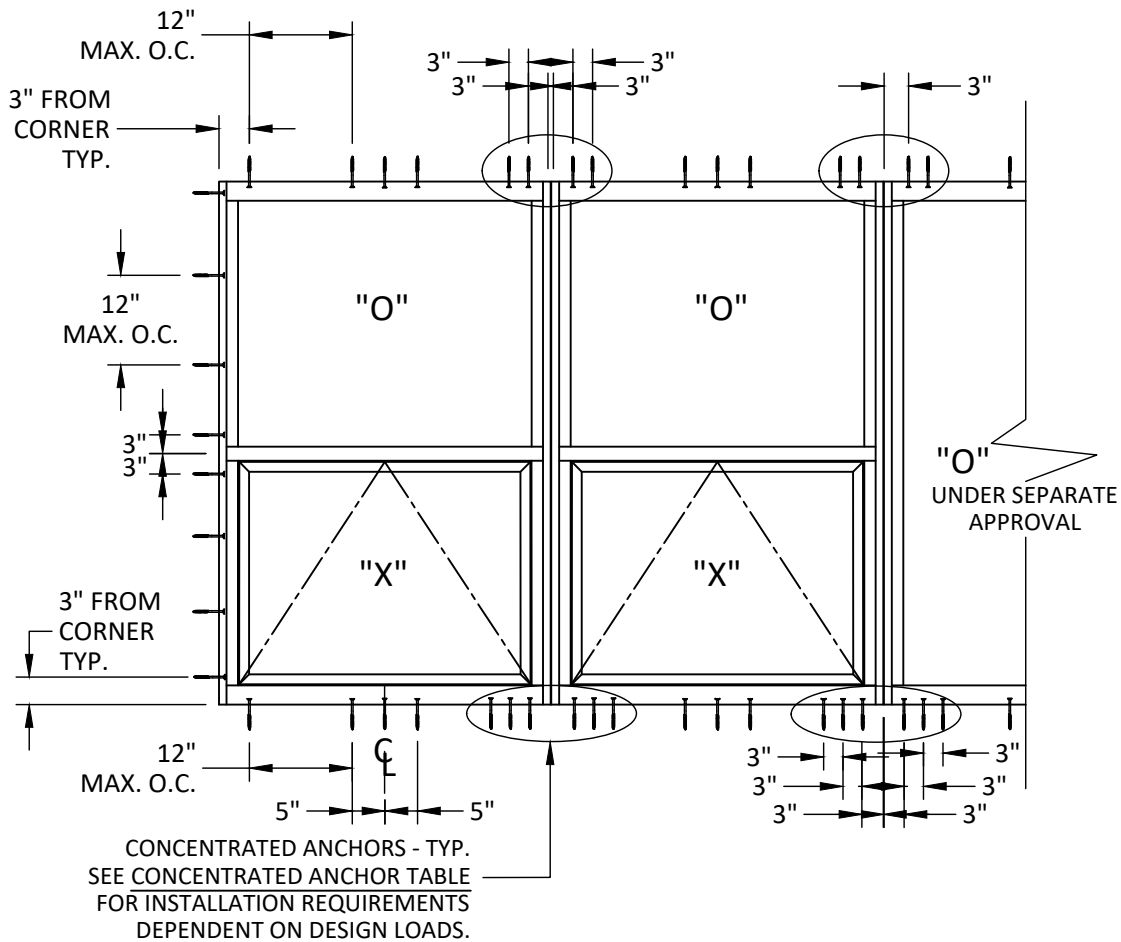
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MULLED UNIT ANCHOR LAYOUT

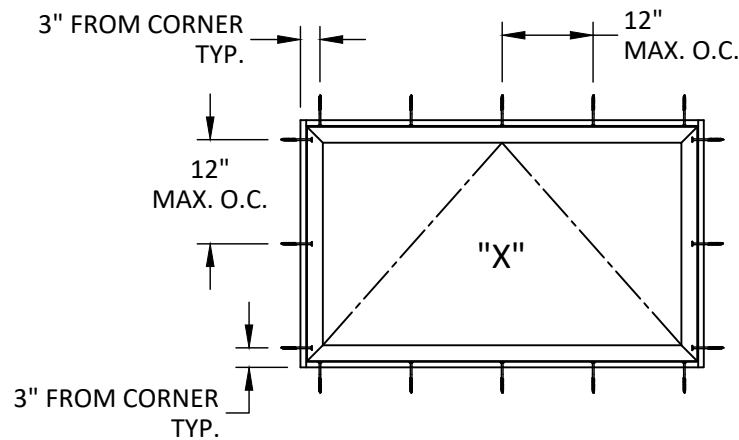
ALL INSTALLATION METHODS

CONCENTRATED ANCHOR TABLE

DESIGN PRESSURE (+/- PSF)	MIN. QTY REQUIRED AT EA. END OF VERT. MULL*	MIN. QTY REQUIRED AT SILL OF VERT. 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.

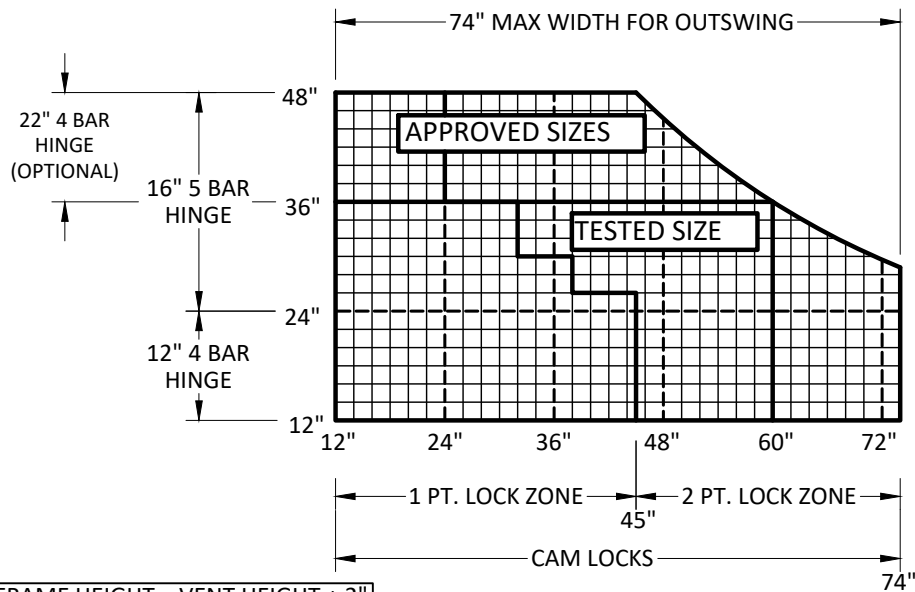


SINGLE UNIT ANCHOR LAYOUT

ALL INSTALLATION METHODS

MAX DESIGN PRESSURE PER GLASS TYPE (PSF)					
VENT NOMINAL DIMS.		TYPE J & K		TYPES A, B, C, F, G, H & I	
WIDTH (in.)	HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
45	48	65.0	65.0	64.4	64.4
46	47	65.0	65.0	65.0	65.0
47	46	65.0	65.0	65.0	65.0
49	44	65.0	65.0	65.0	65.0
52	42	65.0	65.0	65.0	65.0
54	40	65.0	65.0	65.0	65.0
57	38	65.0	65.0	64.8	64.8
60	36	65.0	65.0	65.0	65.0
63	34	65.0	65.0	65.0	65.0
67	32	65.0	65.0	65.0	65.0
72	30	65.0	65.0	65.0	65.0
74	29	65.0	65.0	65.0	65.0

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 AND CHART BELOW.
- 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

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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TITLE: YOW 225 TUI THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT)

ANCHOR LAYOUTS, APPROVED SIZES & HARDWARE SCHEDULE

PREPARED BY:

BUILDING DROPS, INC.

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PH: (954)399-8478

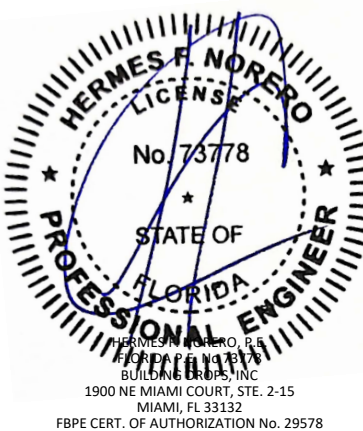
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CHK. BY: HFN

SCALE: NTS

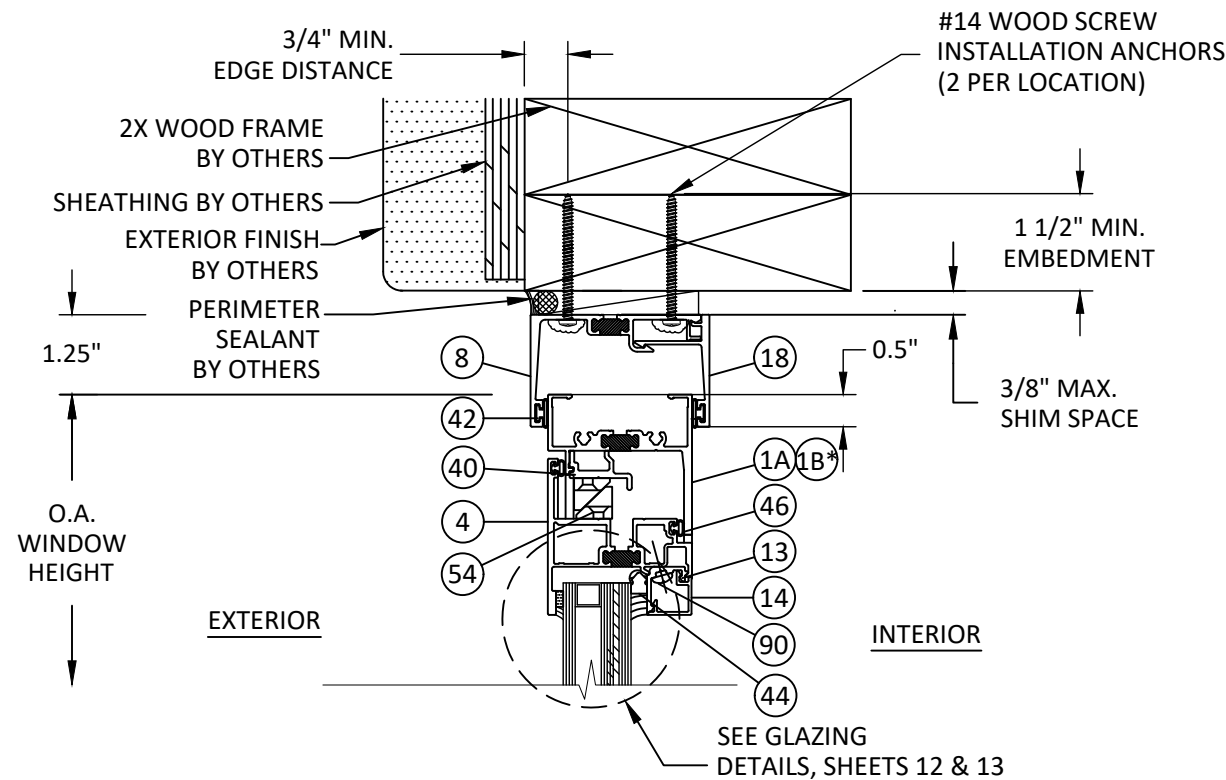
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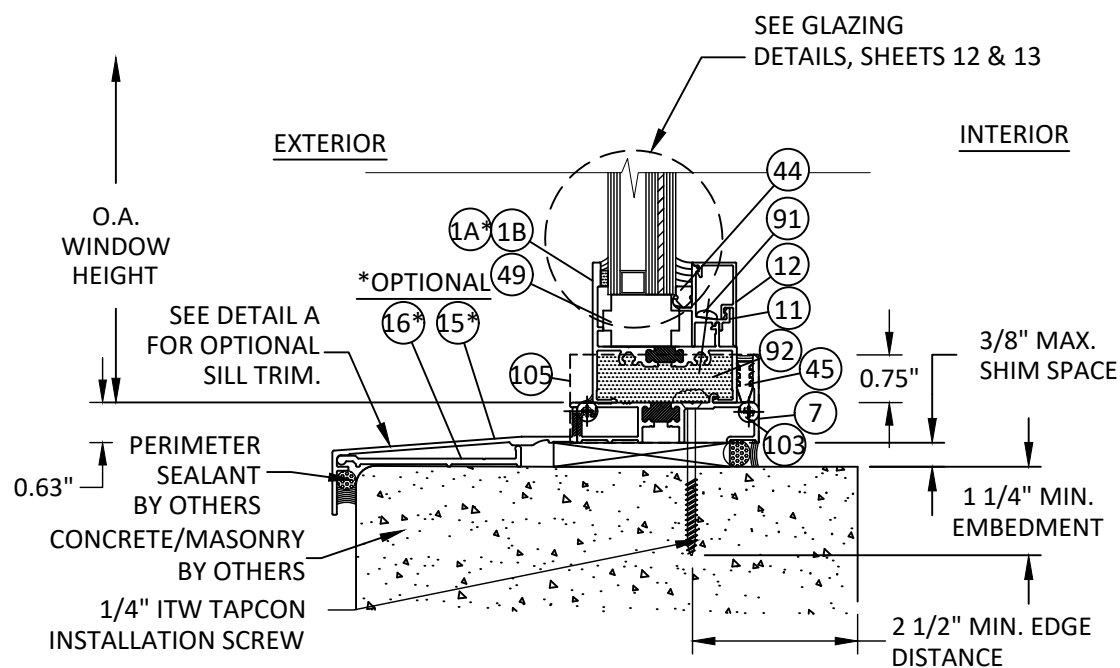
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B
4 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
INT. SET RECEPTOR - TYP.

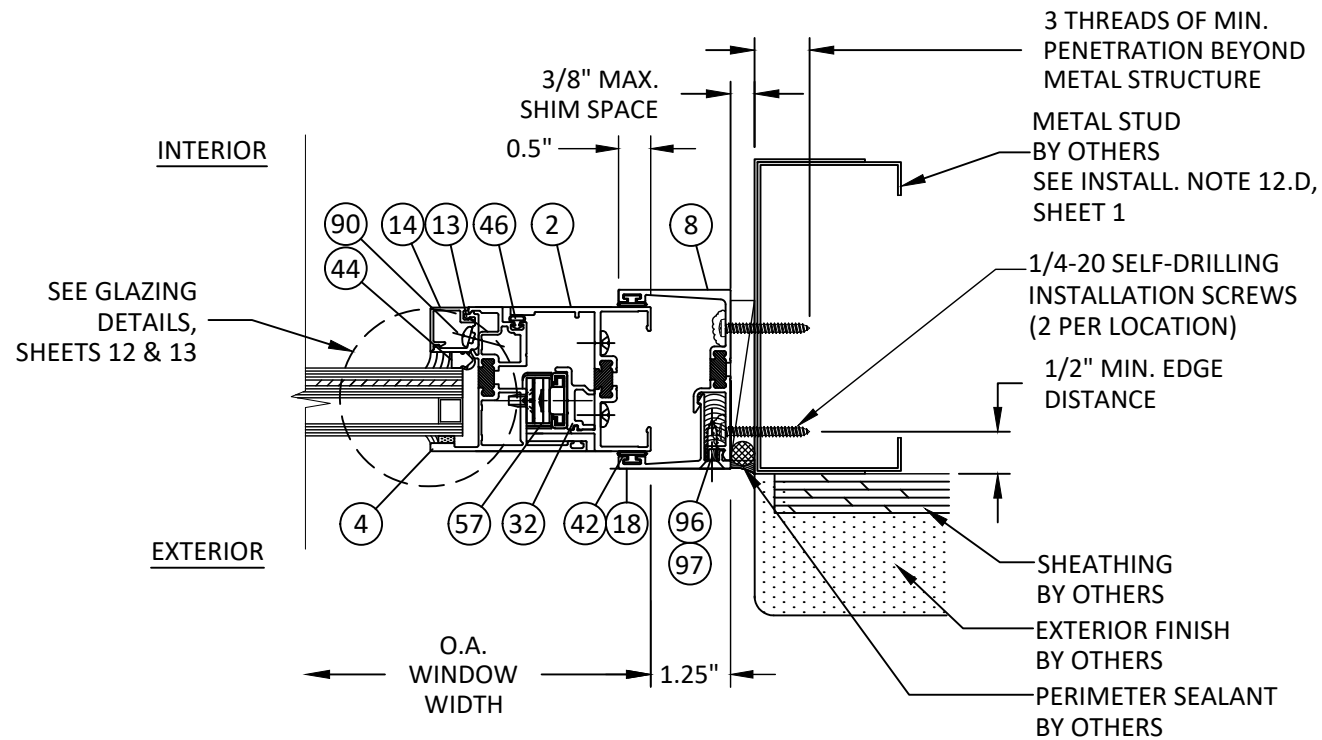
- *ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



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

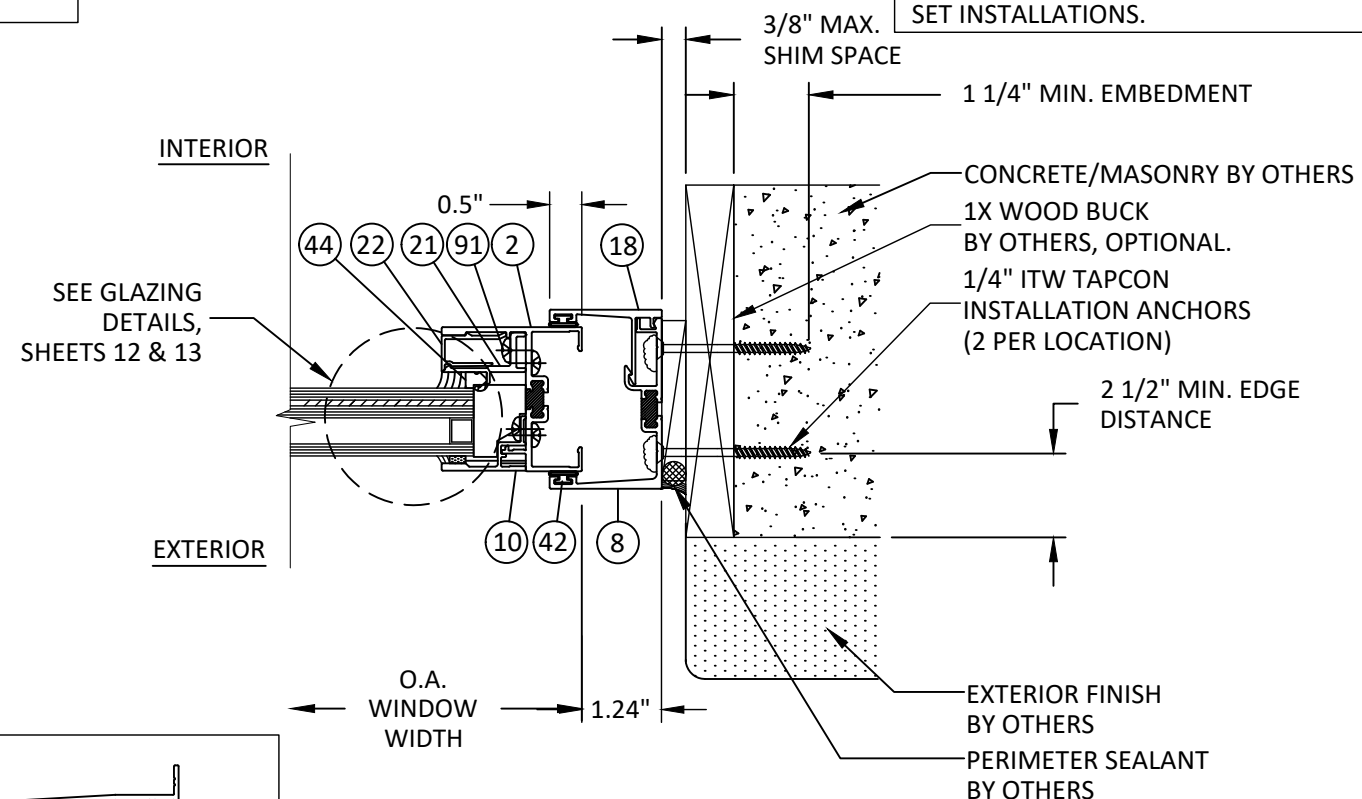


**OPTIONAL SILL TRIM
DETAIL A**



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.



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



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TITLE:
YOW 225 TUI THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)

RECEPTOR INSTALLATION
DETAILS

PREPARED BY:
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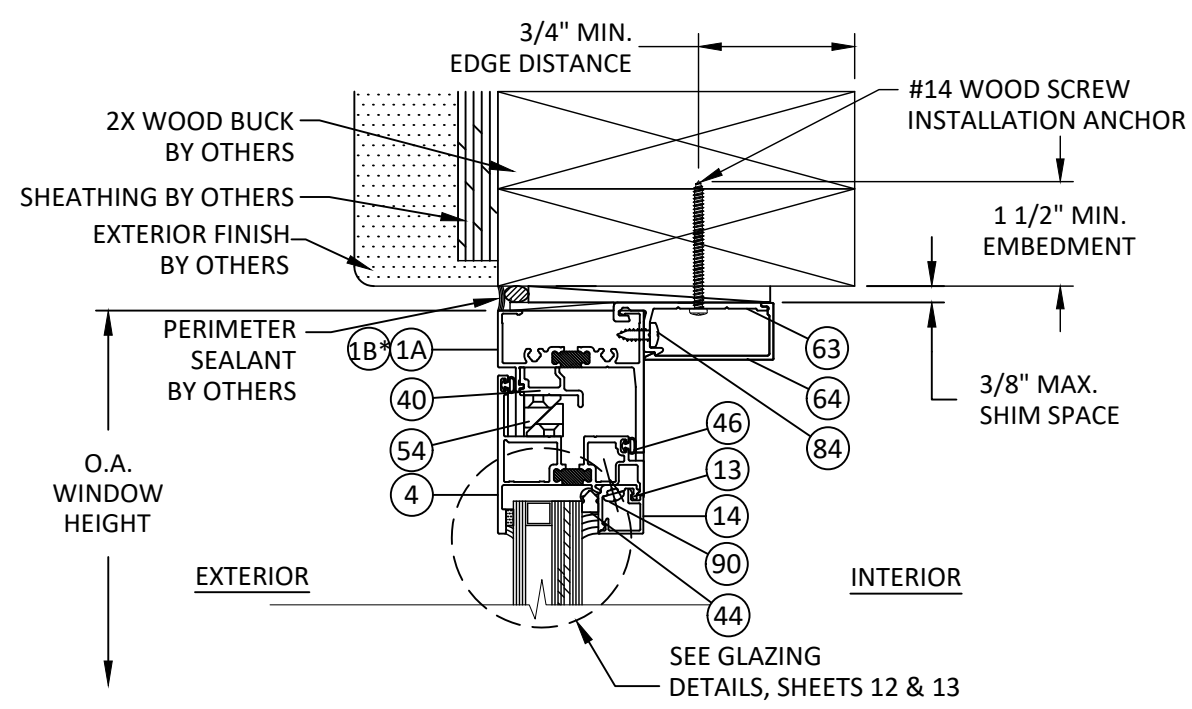
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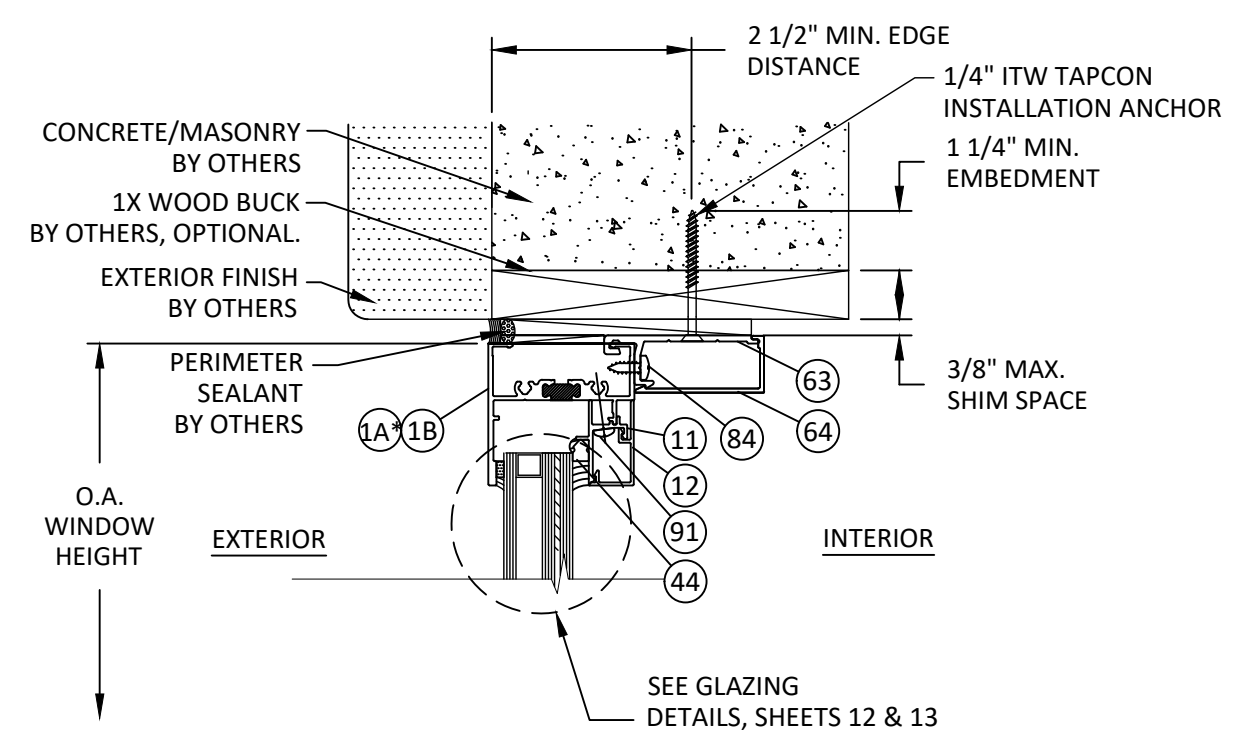
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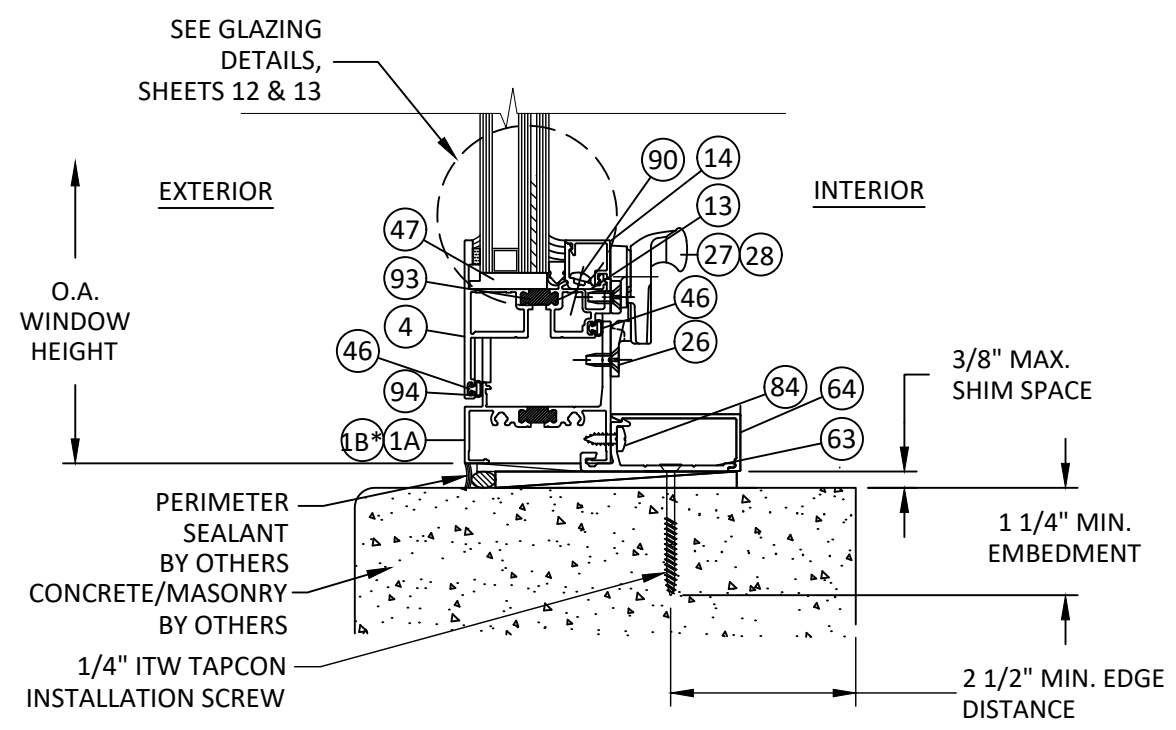


G
5 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
CLIP ANCHOR - TYP.

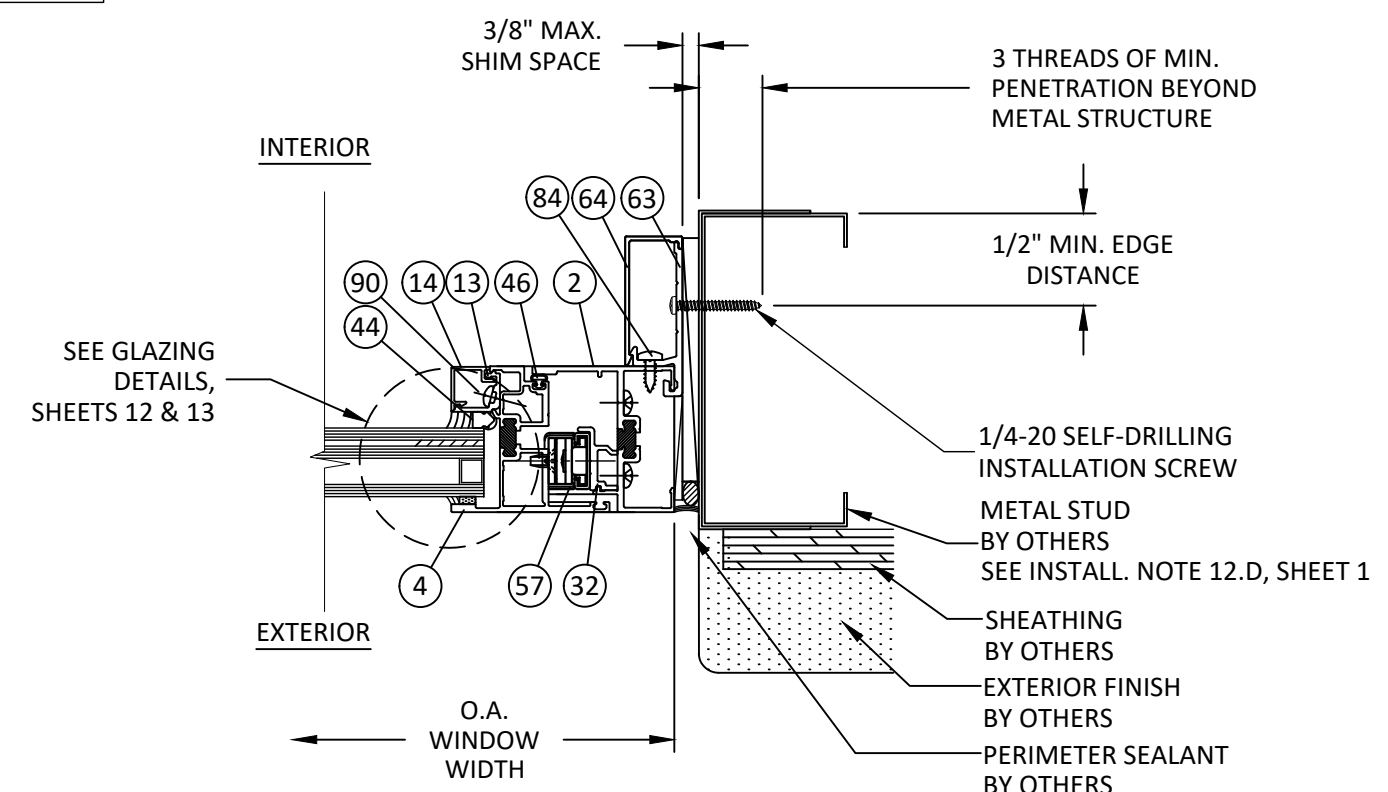
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H
5 **VERTICAL SECTION**
FIXED HEAD - 1X/CONCRETE/MASONRY
CLIP ANCHOR - TYP.



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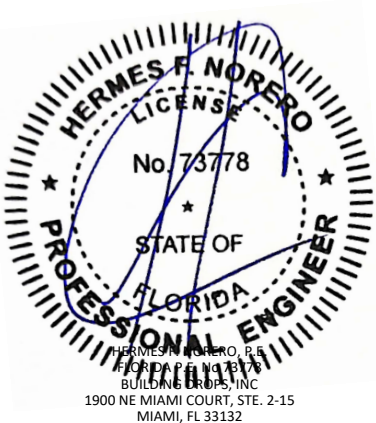
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HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL16313

DATE: **10.16.17**

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

SCALE: **NTS**

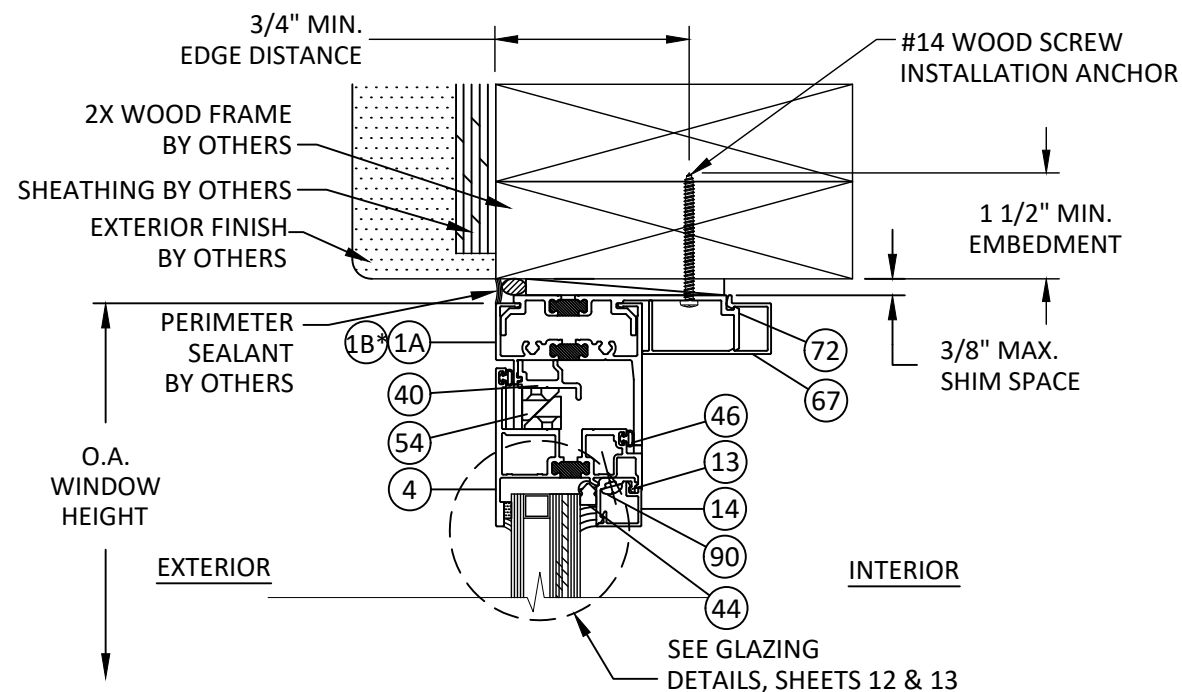
DWG. #: **YKK183**

SHEET:

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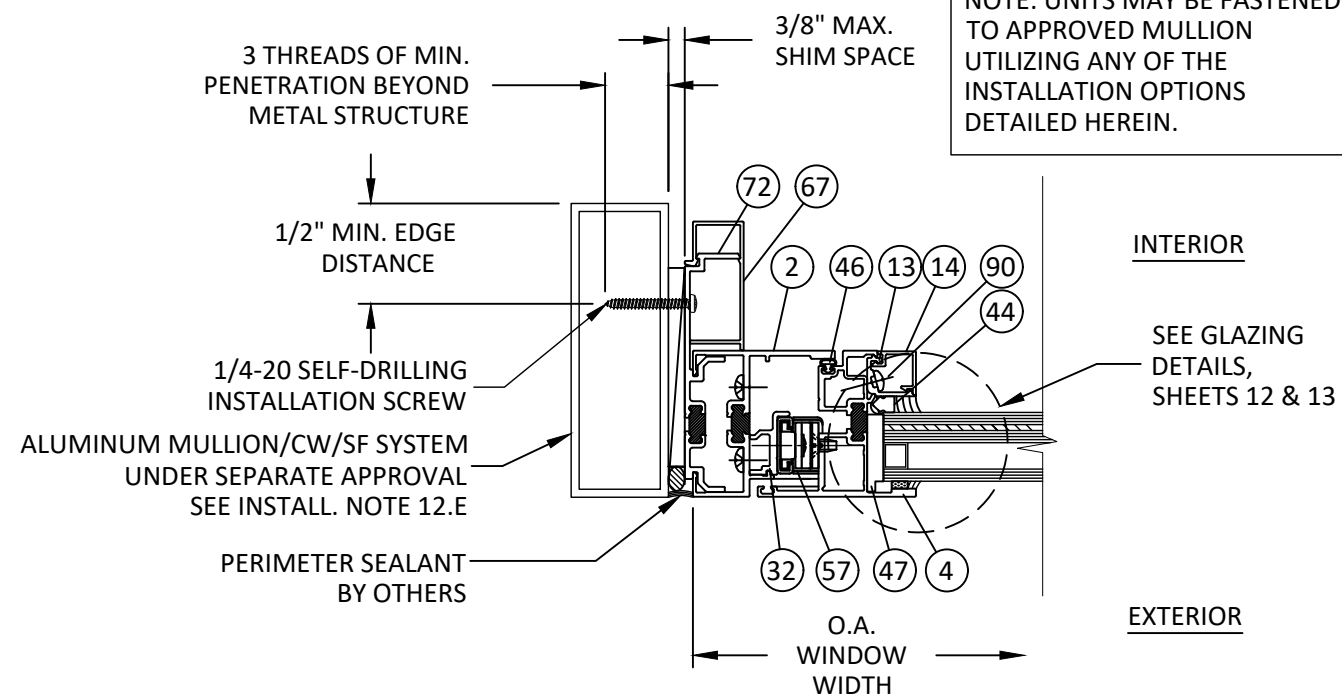
OF 17

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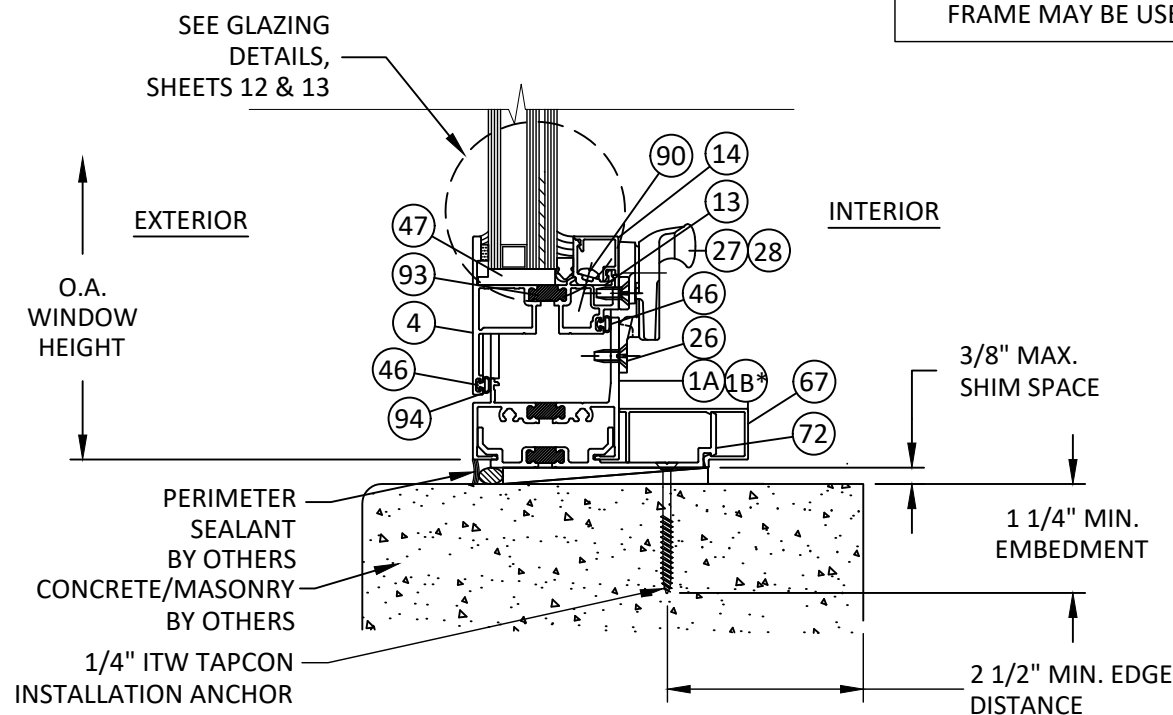


K
6 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP.

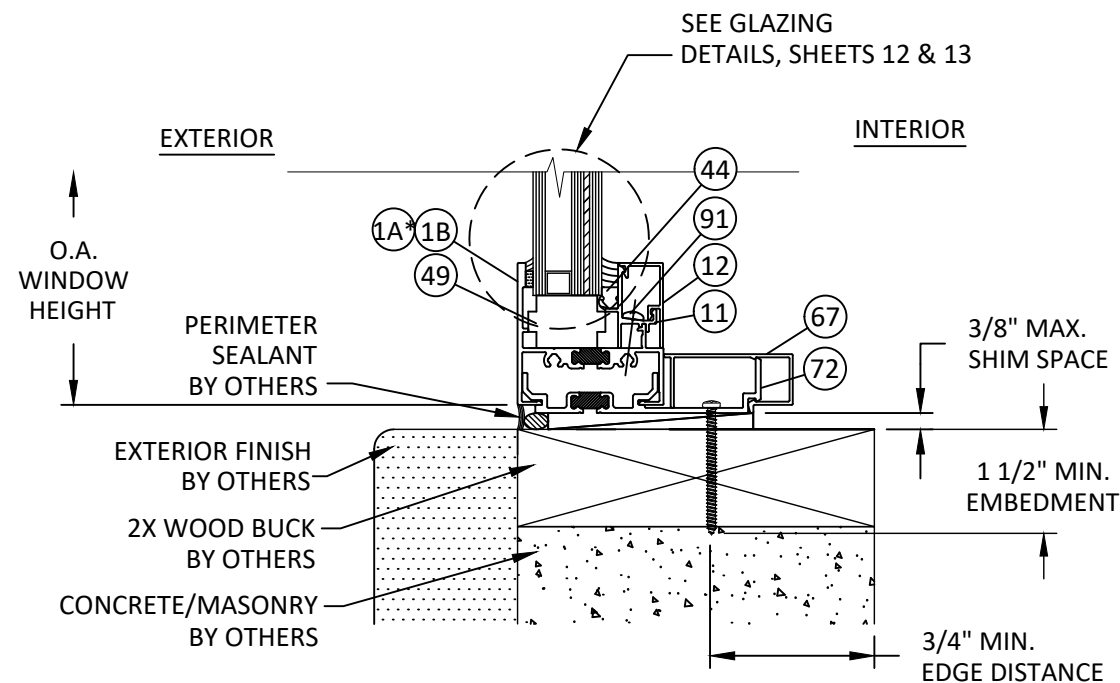
- *ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



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.



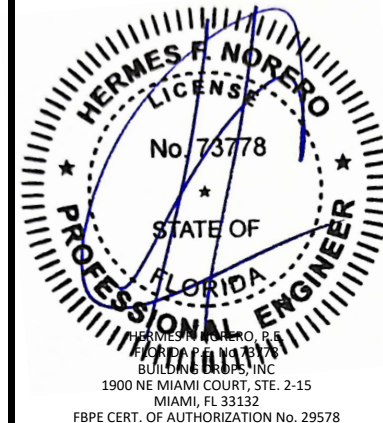
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 TUI 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

REMARKS	BY	DATE
7TH FBC CODE CHANGE	MS	04.16.20
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
MISC UPDATES	SH	02.26.24

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FL16313

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AR

CHK. BY:
HFN

SCALE: **NTS**

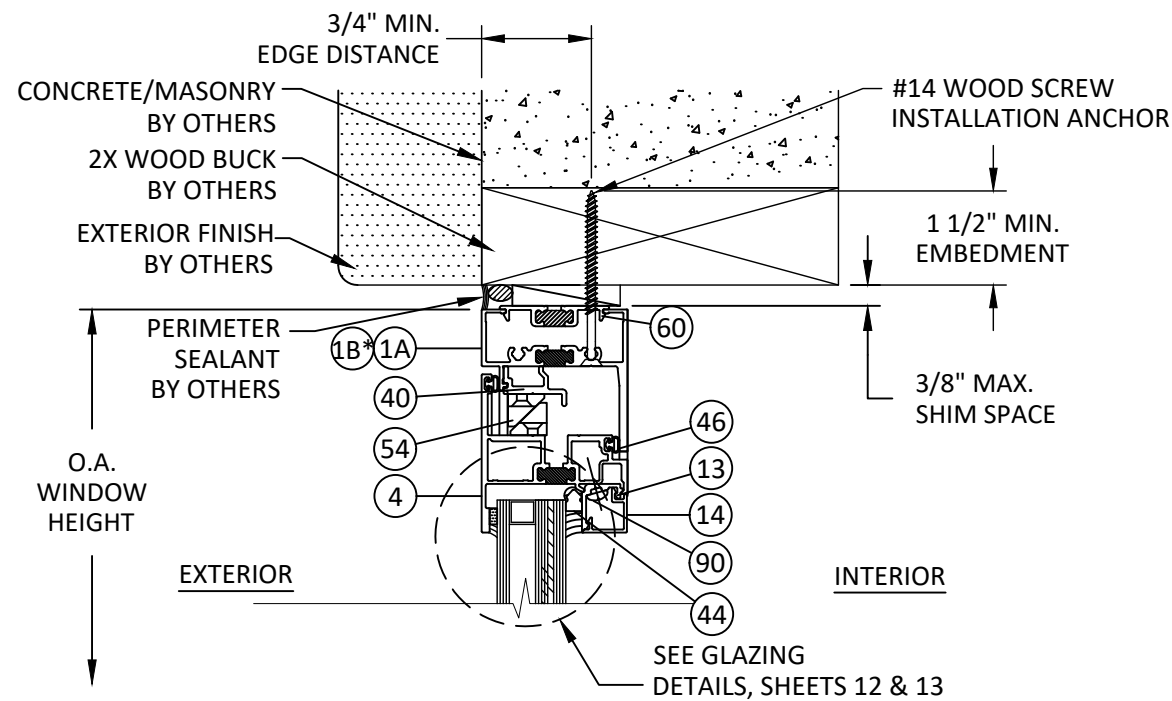
DWG. #: **YKK183**

SHEET:

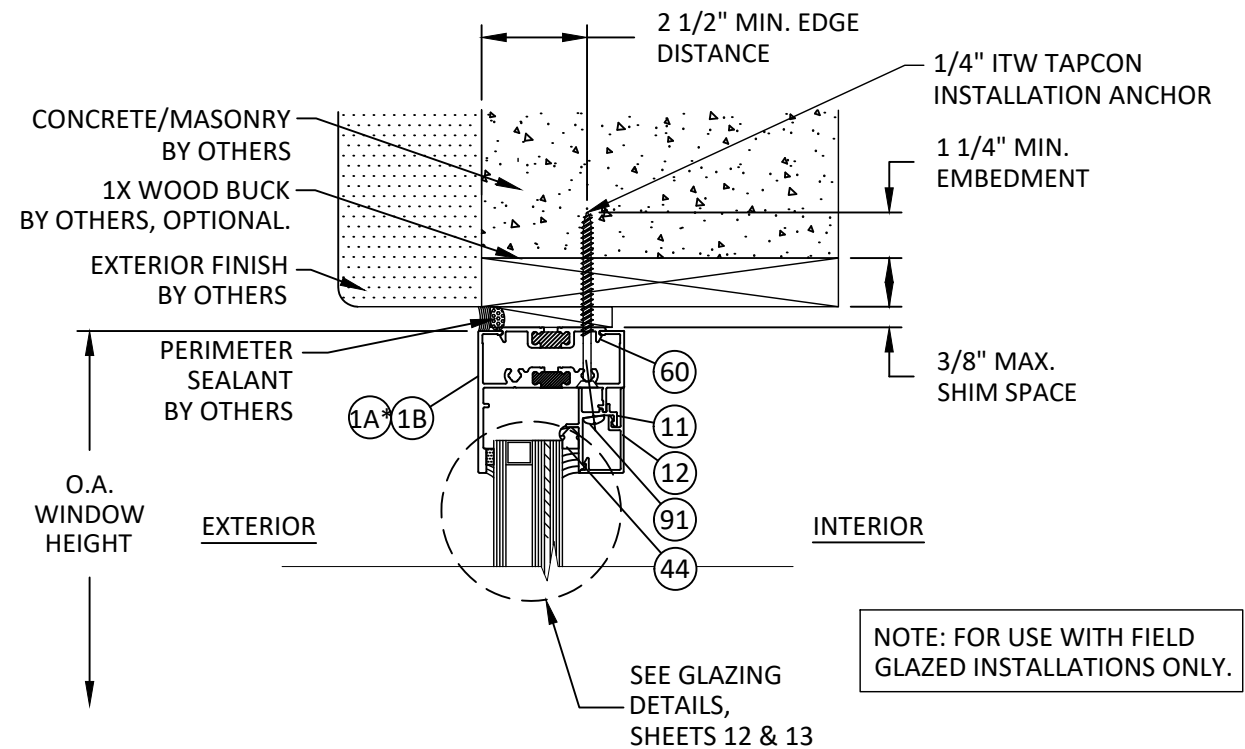
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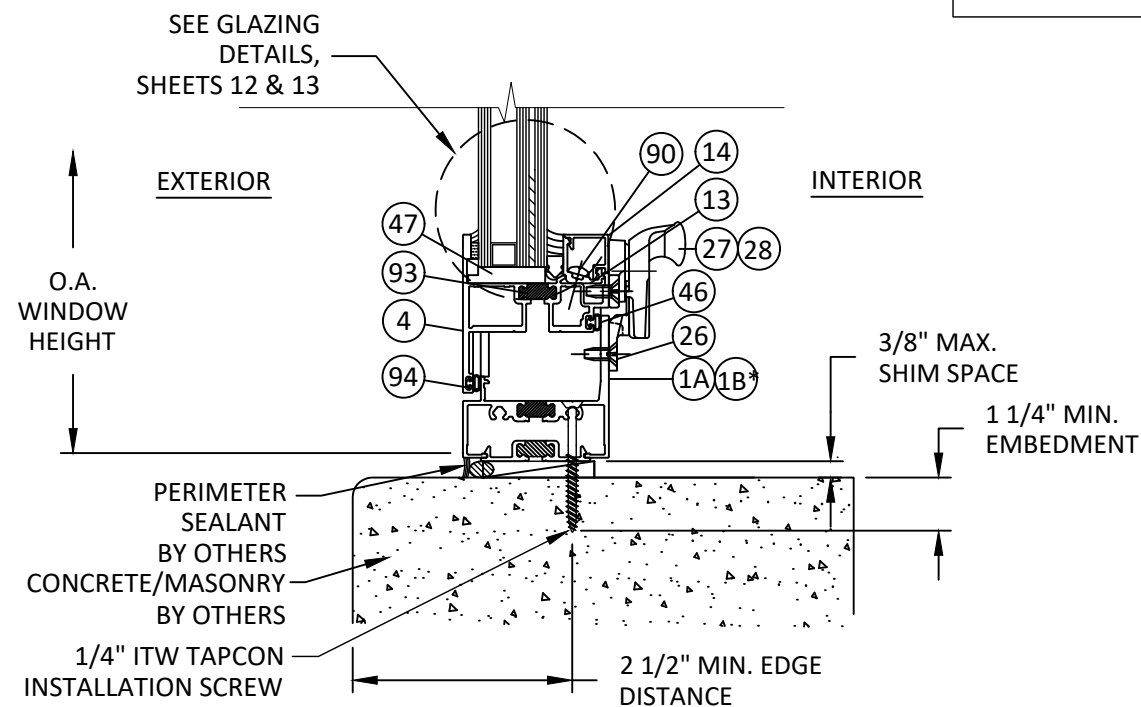


O7 VERTICAL SECTION
VENT HEAD - 2X WOOD BUCK
THROUGH FRAME - TYP.

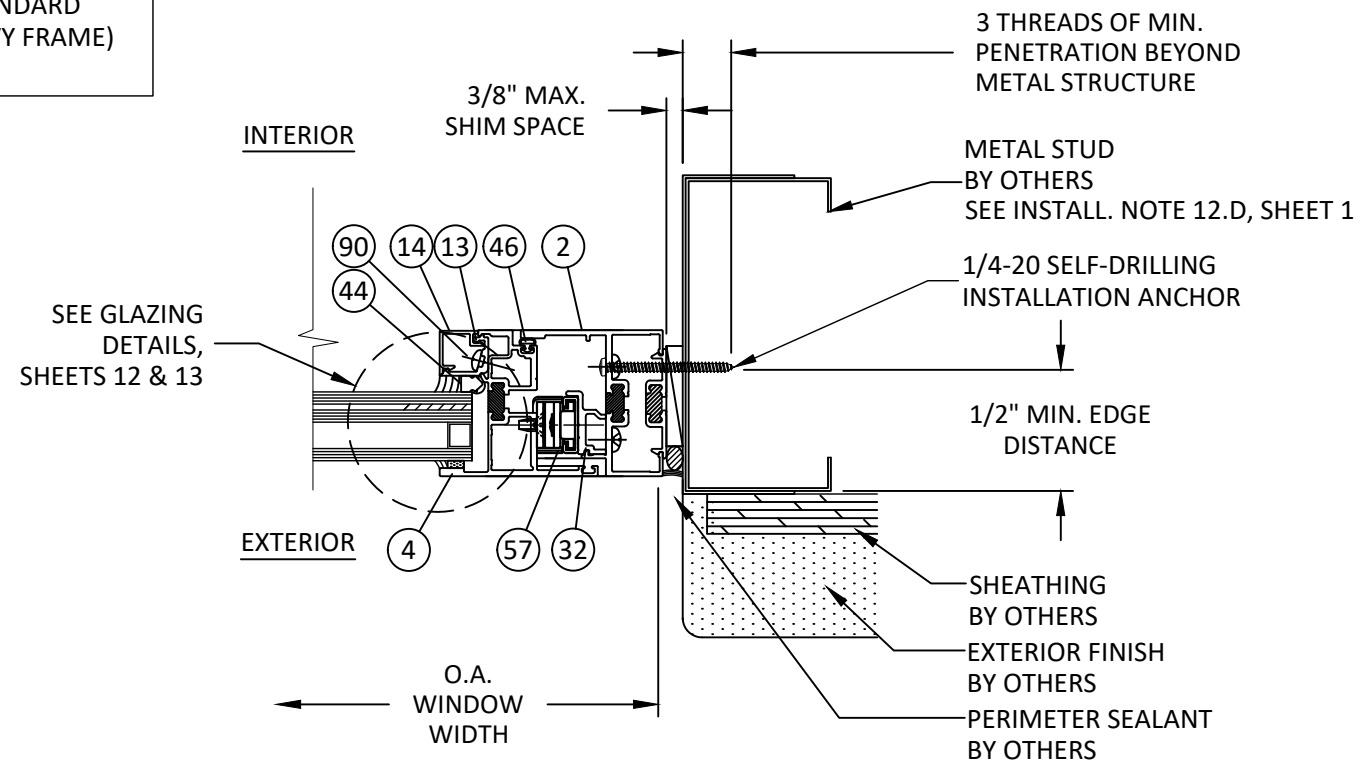


P7 VERTICAL SECTION
FIXED HEAD - 1X/CONCRETE/MASONRY
THROUGH FRAME - TYP.

*ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



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



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



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1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 TUB 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



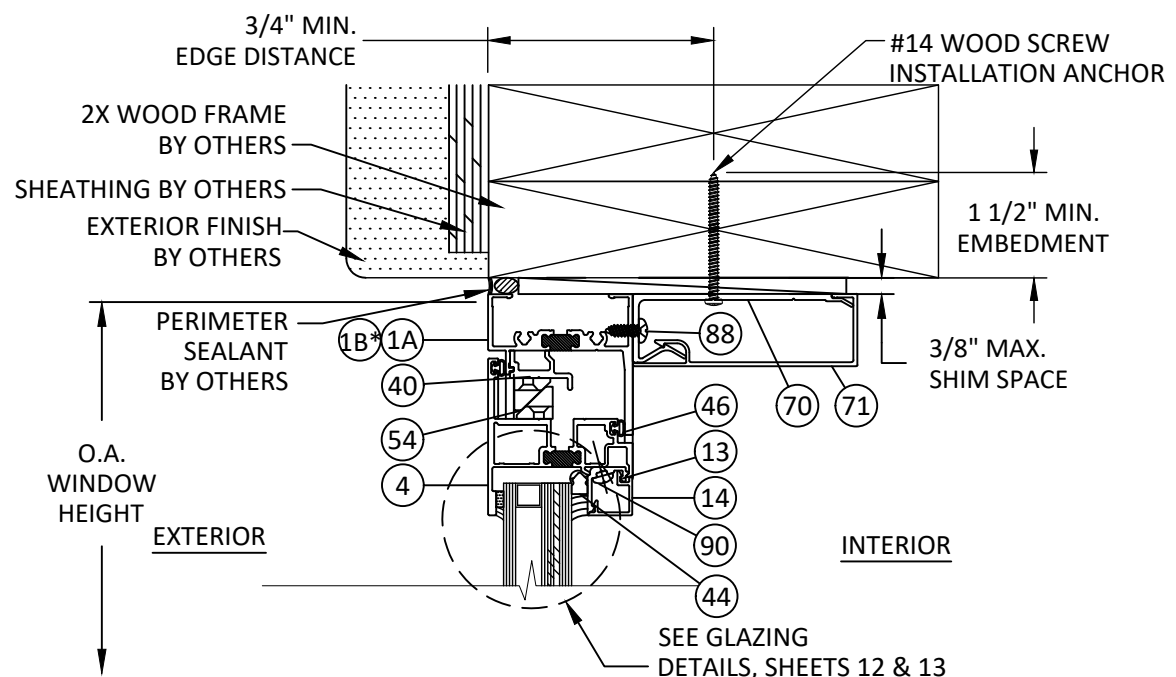
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7TH FBC CODE CHANGE	MS	04.16.20
MISC UPDATES	SH	09.26.22
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MISC UPDATES	SH	02.26.24

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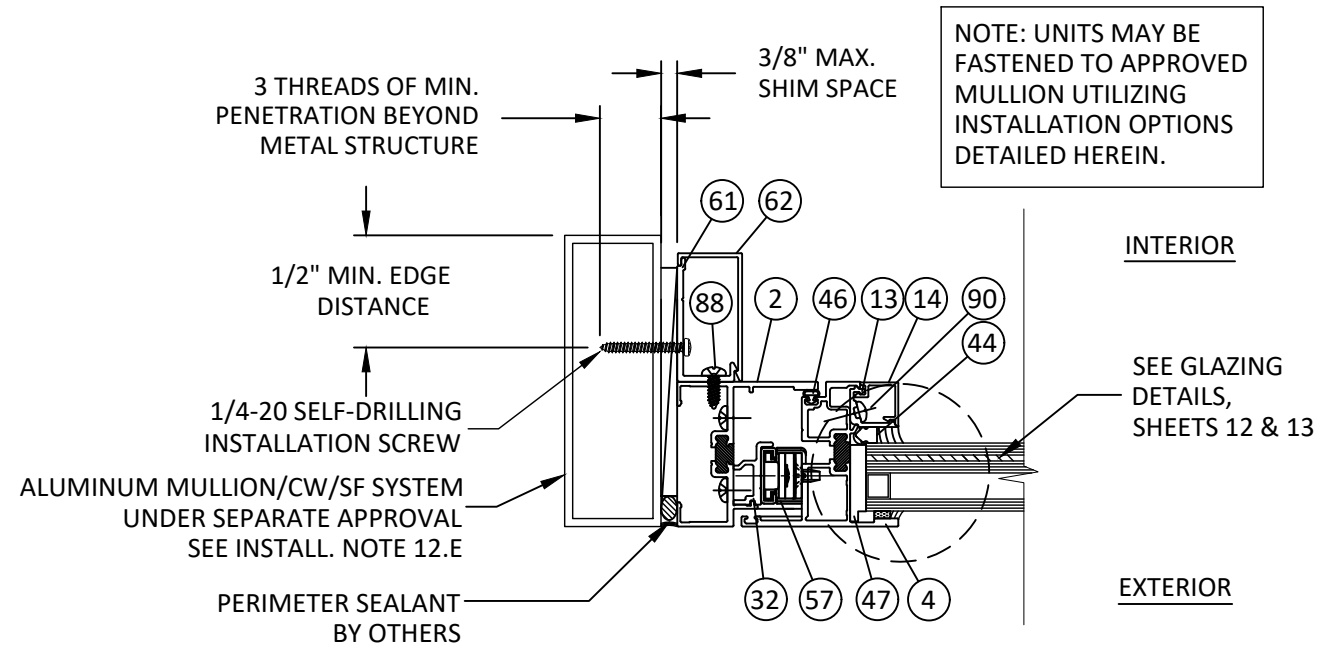


FL #:	FL16313
DATE:	10.16.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK183
SHEET:	7

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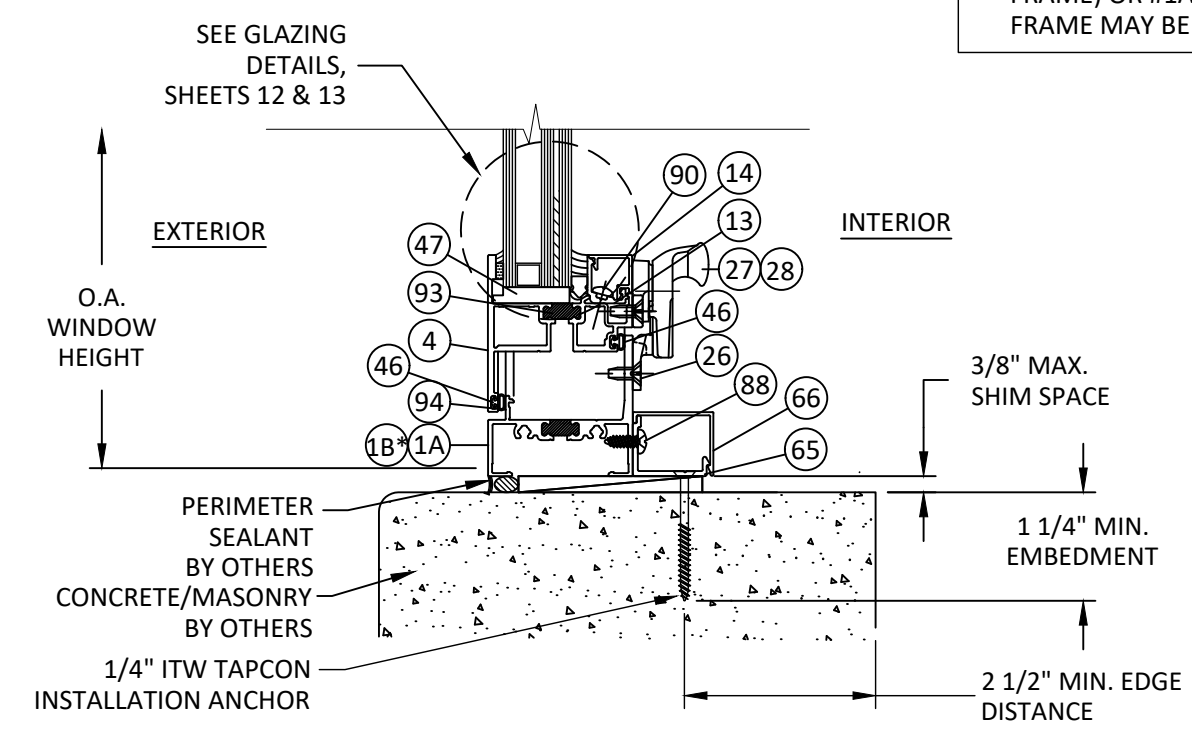


S
8 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TRIM CLIP ANCHOR - TYP.

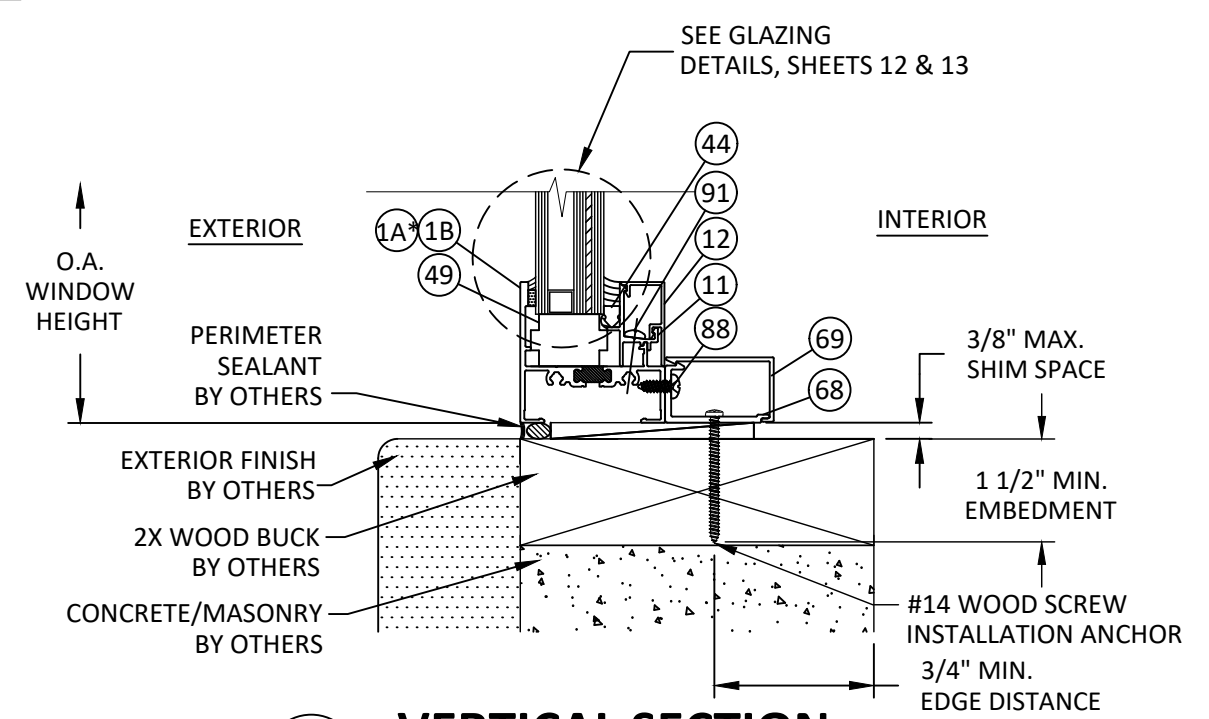


T
8 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
TRIM CLIP ANCHOR - TYP.

*ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



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.



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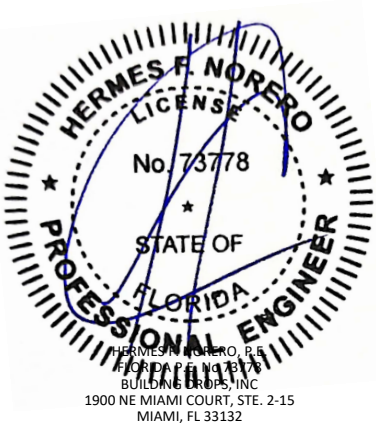
TITLE: YOW 225 TUB THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT) TRIM CLIP ANCHOR INSTALLATION

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



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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
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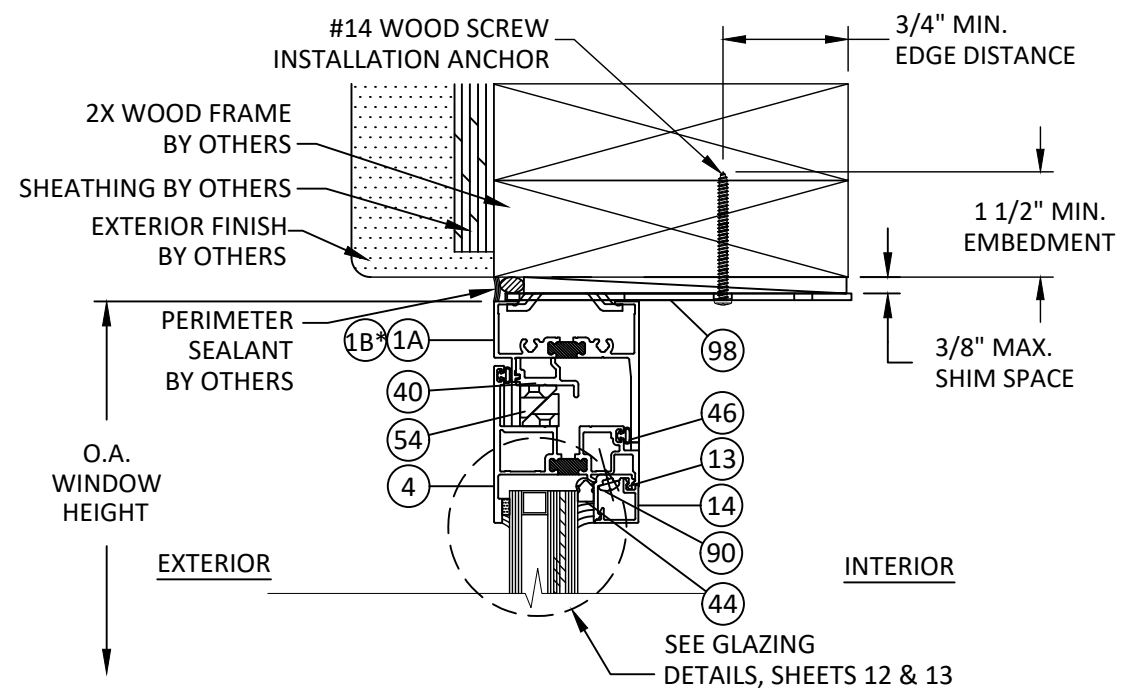
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DWG. #: **YKK183**

SHEET: **8**

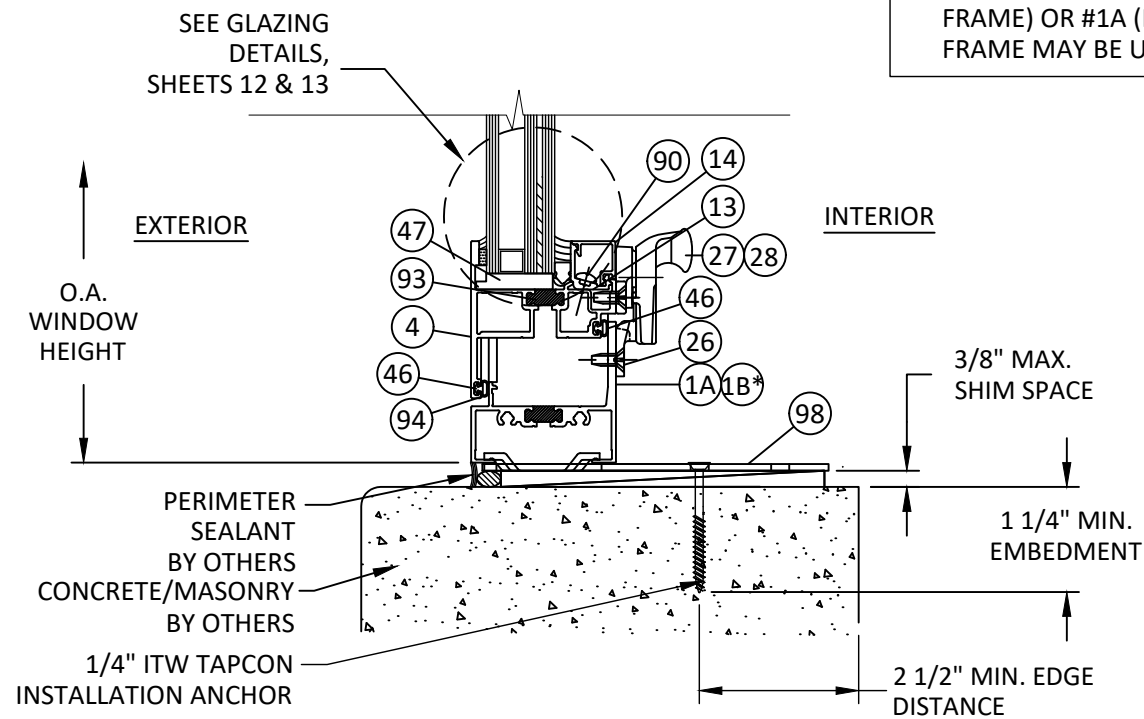
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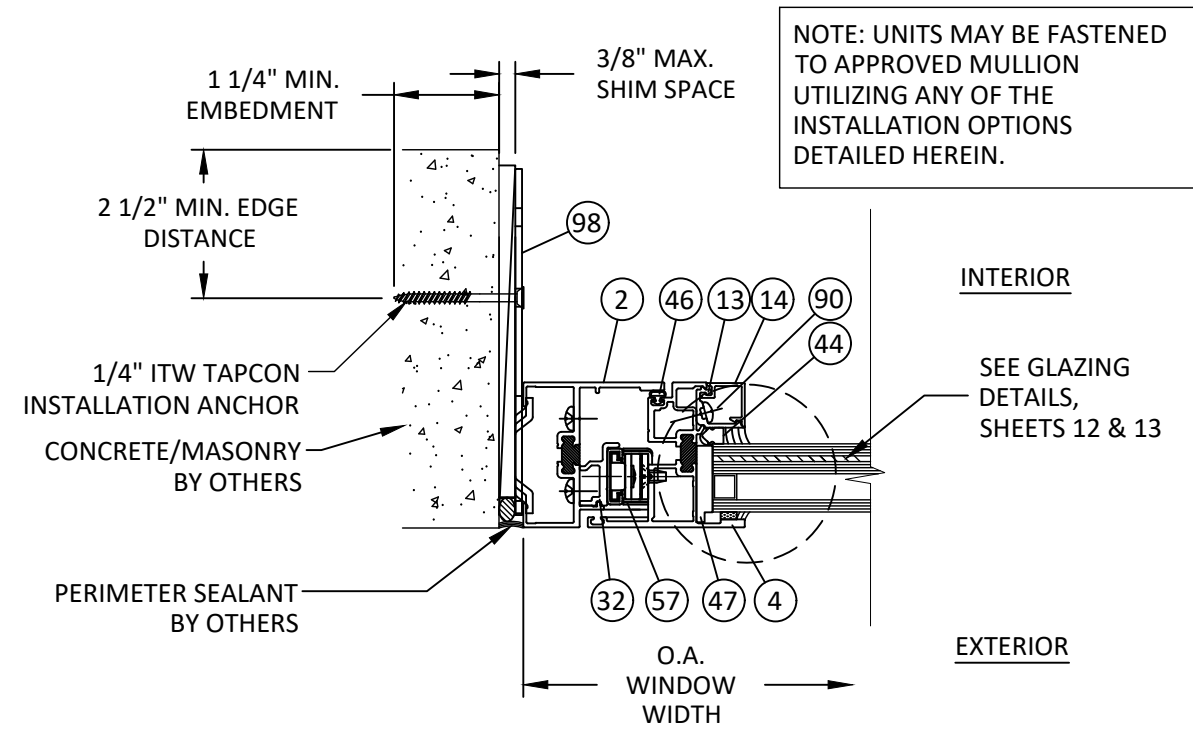


W
9 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TWIST ANCHOR - TYP.

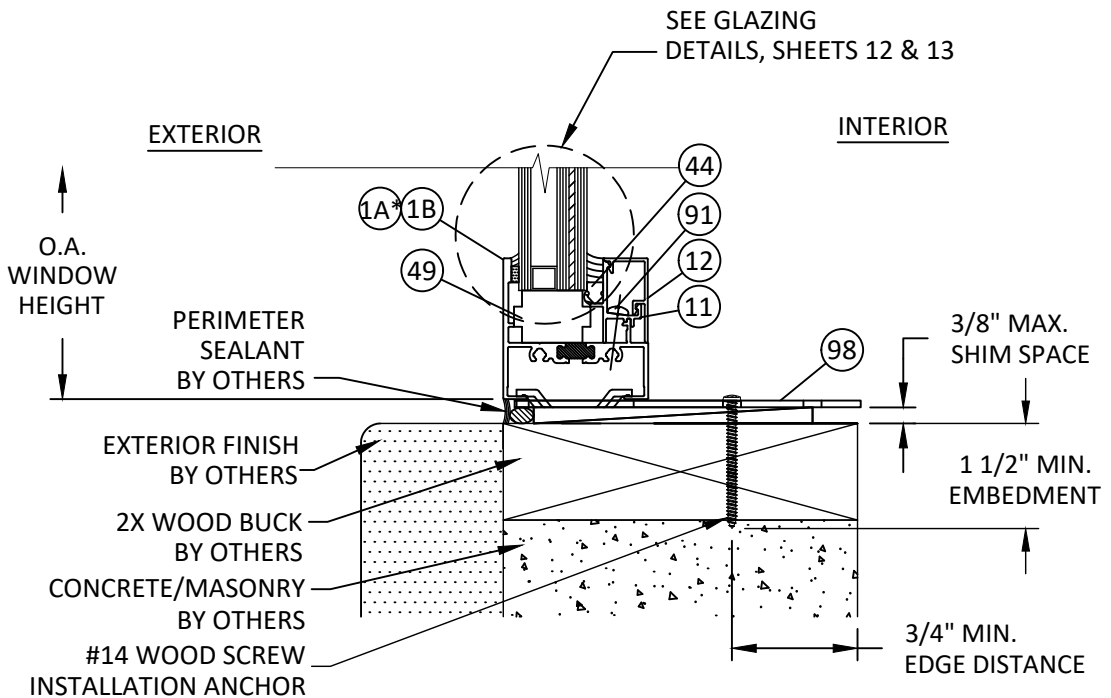
- *ASSEMBLY NOTES:**
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



V
9 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
TWIST ANCHOR - TYP.



X
9 **HORIZONTAL SECTION**
VENT JAMB - CONCRETE/MASONRY
TWIST ANCHOR - TYP.



Y
9 **VERTICAL SECTION**
FIXED SILL - 2X WOOD BUCK
TWIST ANCHOR - TYP.

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1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 TUB THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT) TWIST ANCHOR 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

B.D.
BUILDING DROPS

REMARKS	BY	DATE
7TH FBC CODE CHANGE	MS	04.16.20
MISC UPDATES	SH	09.26.22
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MISC UPDATES	SH	02.26.24

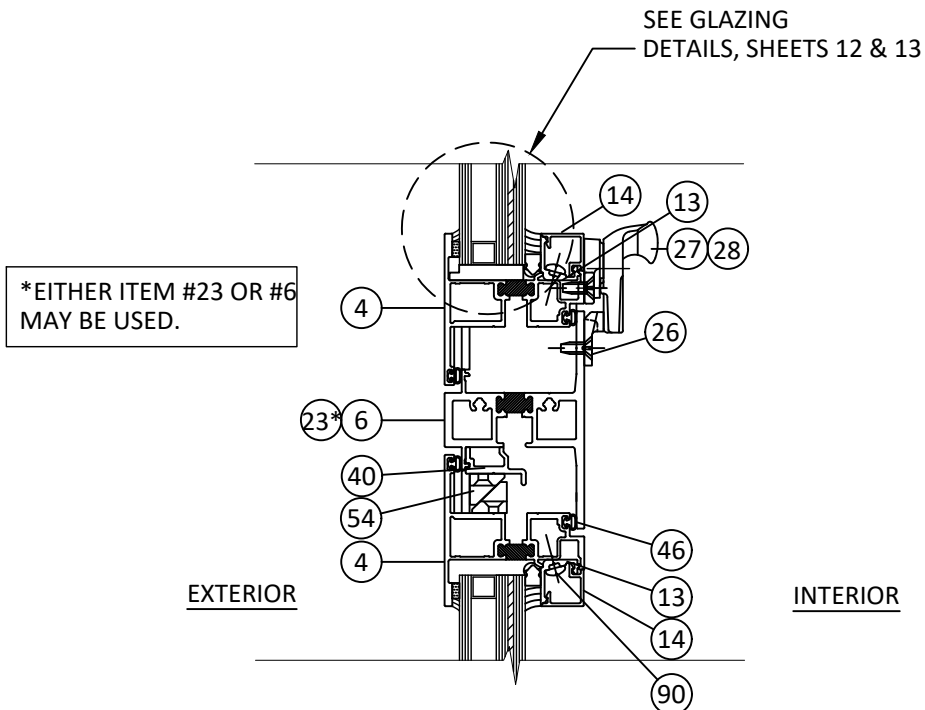
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LICENSE
No. 73778
STATE OF
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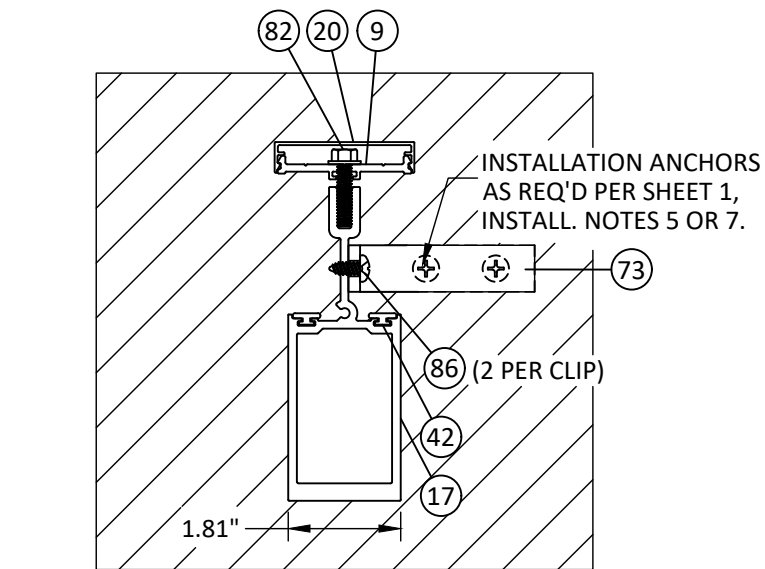
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL16313
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK183
SHEET:	9

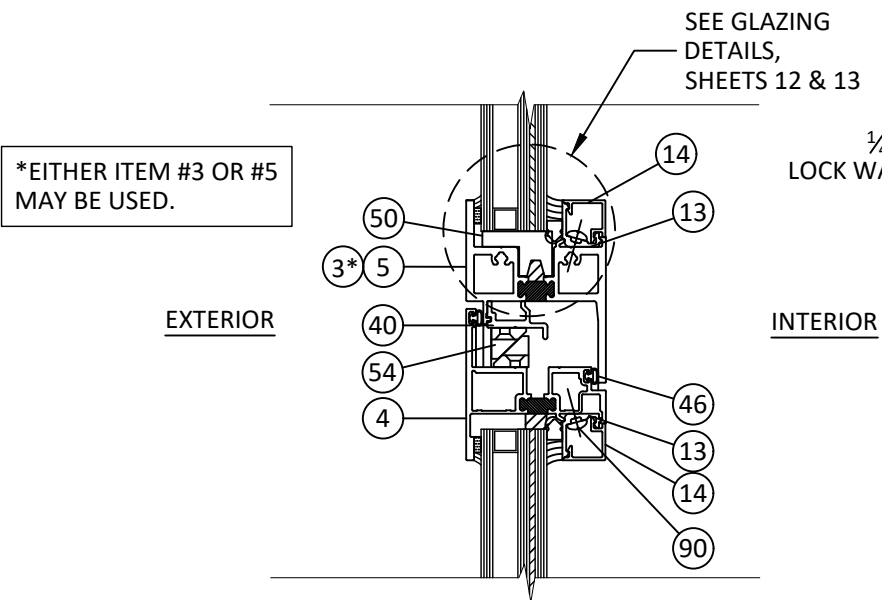
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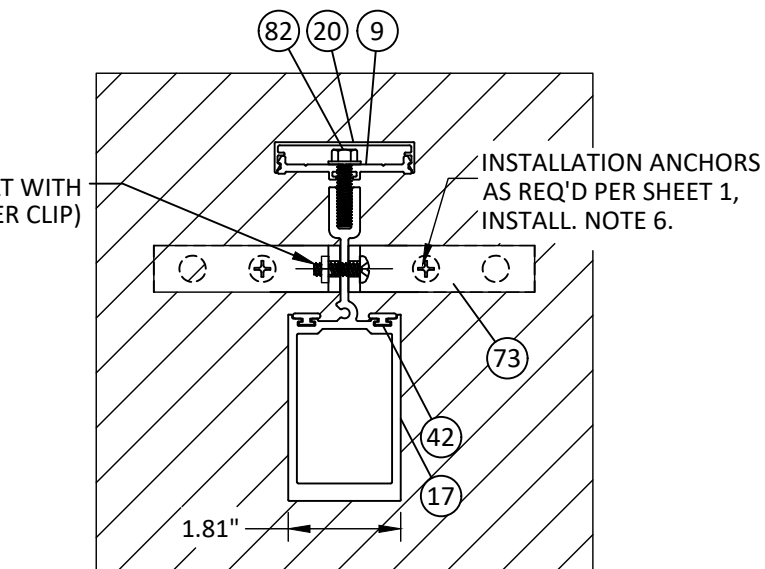
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10 **HORIZONTAL SECTION**
PROJECT OUT - PROJECT OUT



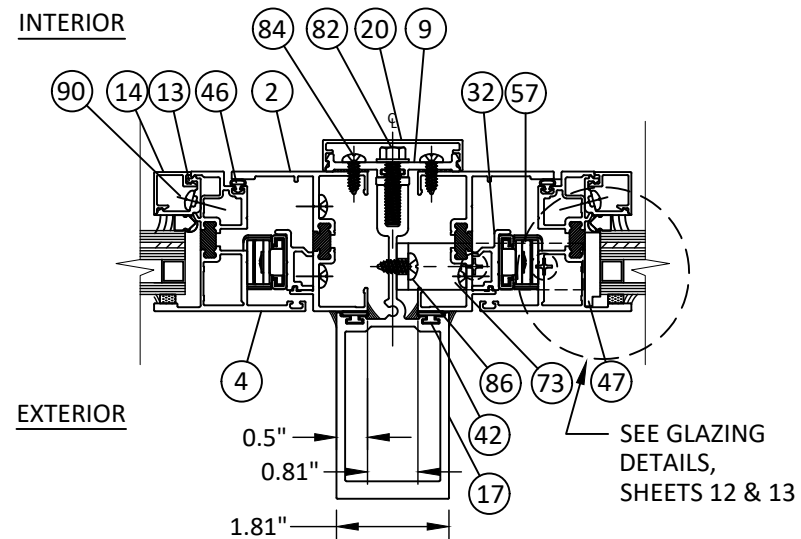
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10 **HORIZONTAL SECTION**
STACK MULLION - TYP.
INSTALL TO WOOD/METAL FRAME



Z
10 **VERTICAL SECTION**
INTEGRAL MULLION-TYP.
FIXED OVER PROJECT OUT

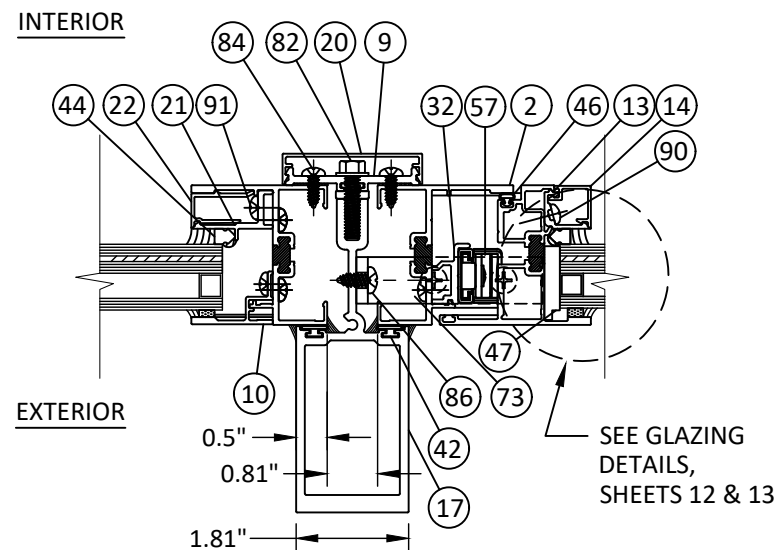


AC
10 **HORIZONTAL SECTION**
STACK MULLION - TYP.
INSTALL TO CONCRETE/MASONRY



AD
10 **HORIZONTAL SECTION**
STACK MULLION - TYP.
PROJECT OUT TO PROJECT OUT

NOTE: STACK MULLION (ITEM #17)
MAY BE INSTALLED IN REVERSE
ORIENTATION THAN SHOWN.



AE
10 **HORIZONTAL SECTION**
STACK MULLION - TYP.
FIXED TO FIXED



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1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

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

STACK AND INTEGRAL
MULLION 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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AR	HFN

SCALE: **NTS**

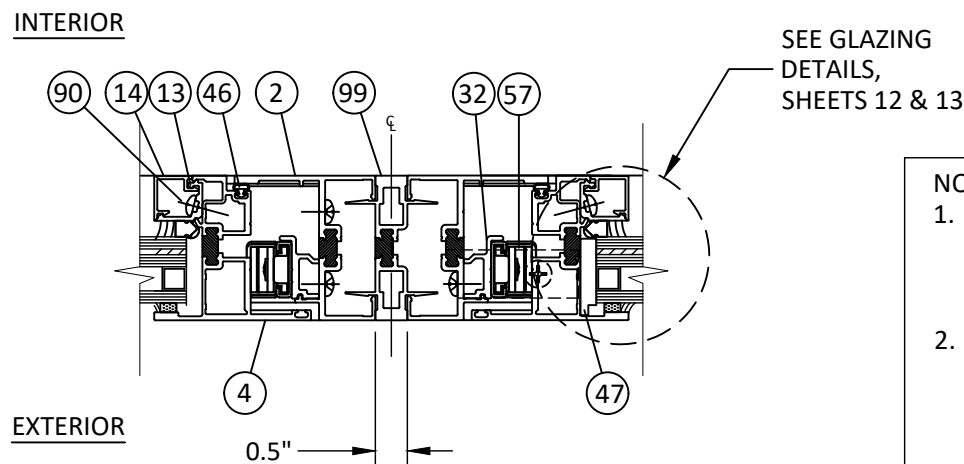
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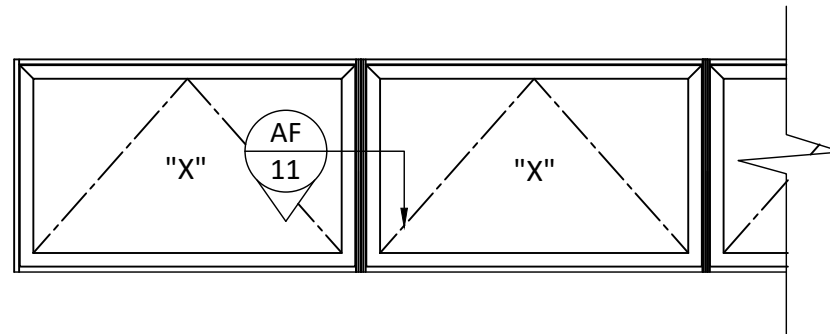
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NOTES:

1. I MULLION MAY BE USED ON A SINGLE ROW (SEE ELEVATION TO RIGHT) OF WINDOWS 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"



AF 11 HORIZONTAL SECTION
I MULLION - TYP.
PROJECT OUT TO PROJECT OUT

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



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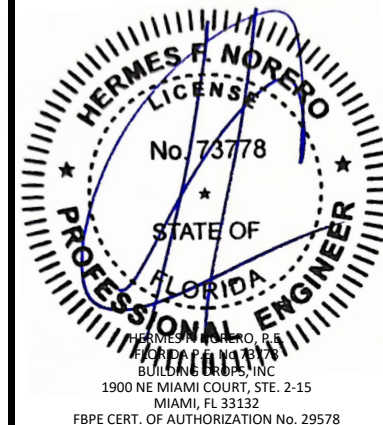
TITLE:
YOW 225 THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)
I MULLION DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
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DWG. #: **YKK183**

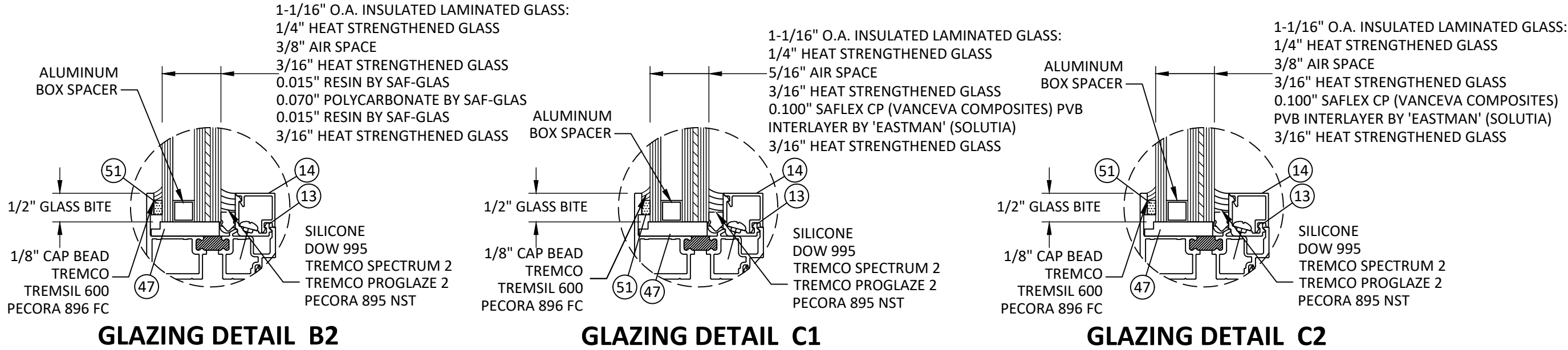
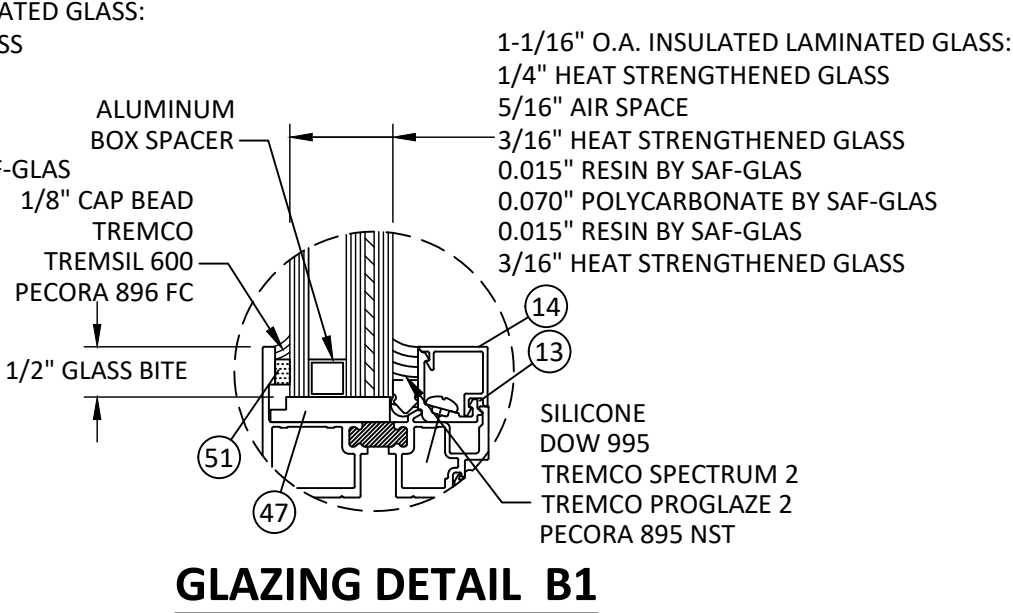
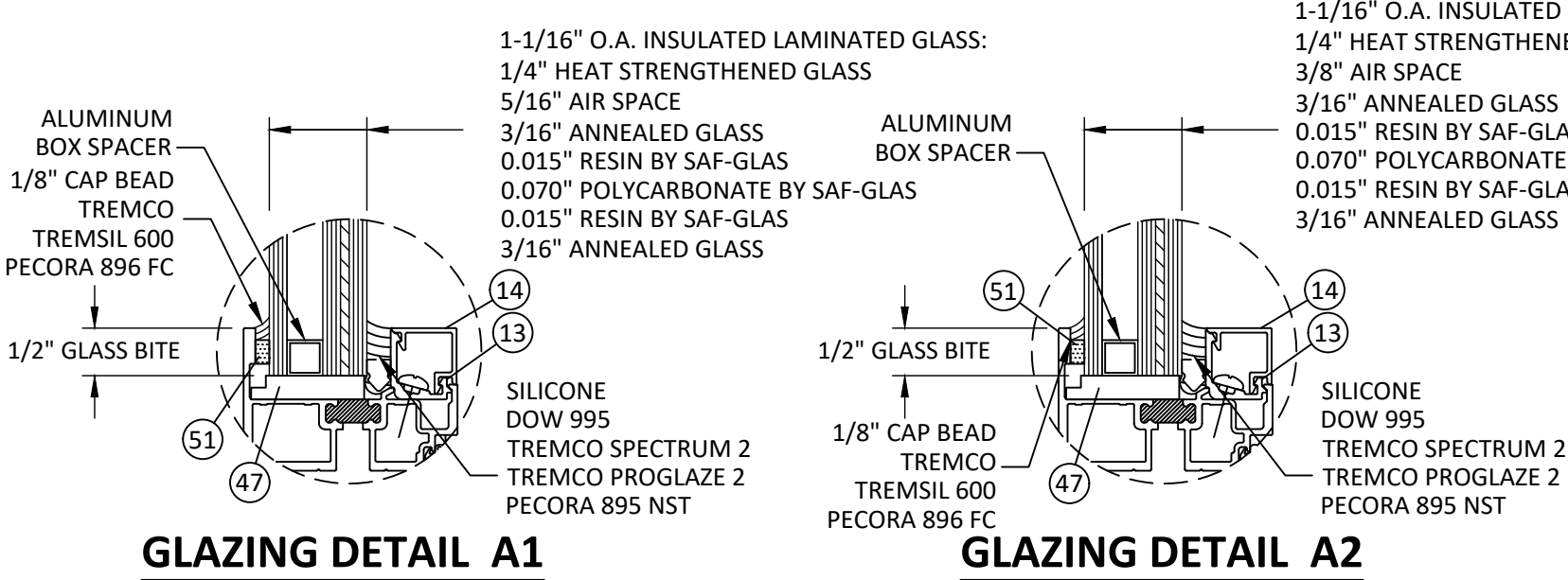
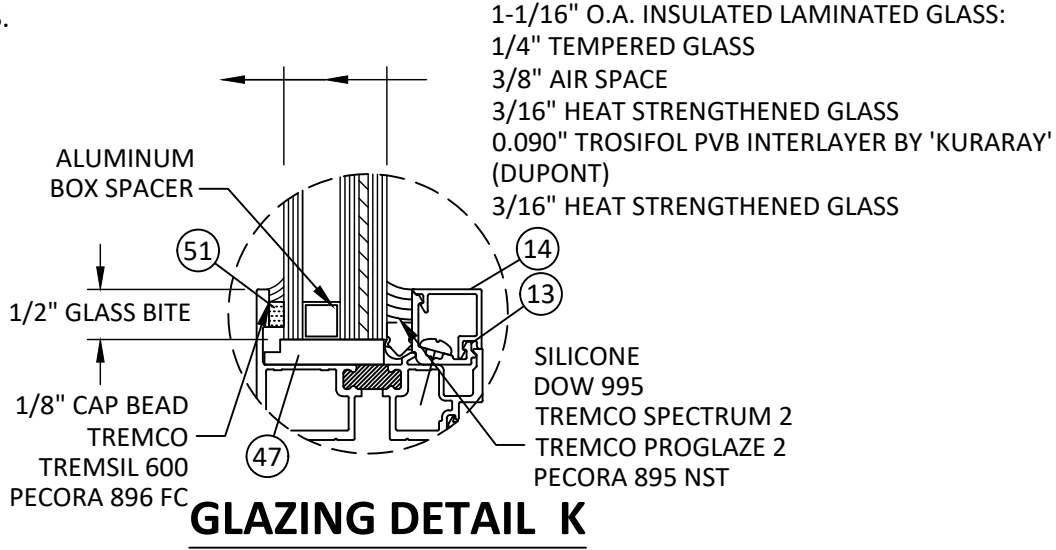
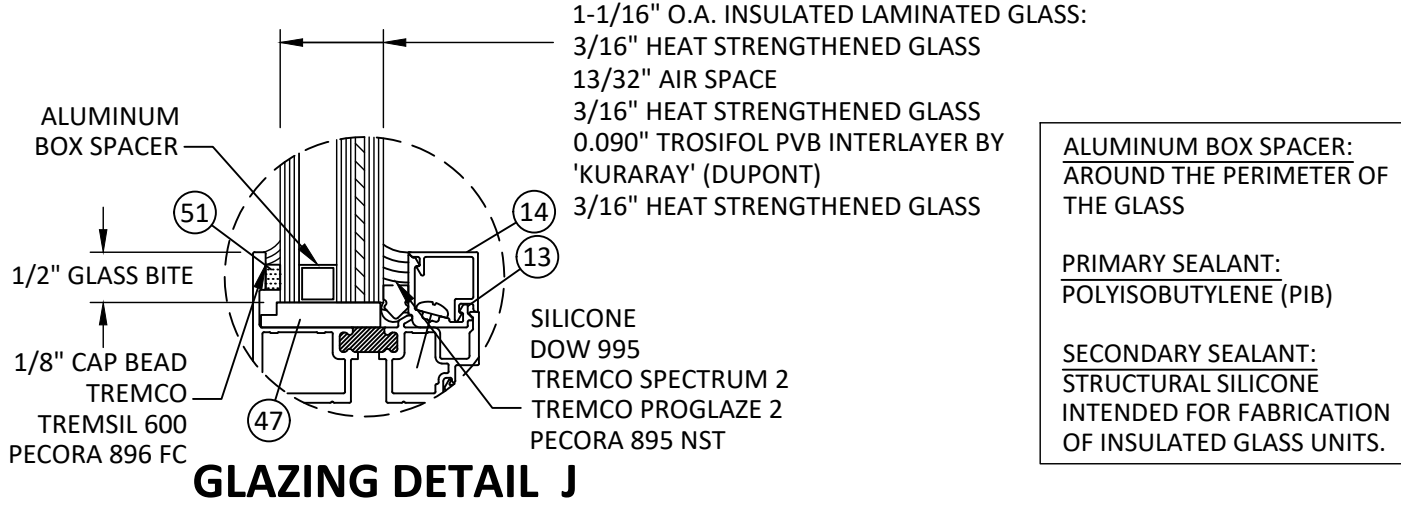
SHEET:

11

OF 17

LARGE & SMALL MISSILE IMPACT RATED GLAZING OPTIONS

NOTE: ALL CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OF FBC.
WHEN OPTIONS ARE USED FOR SMI APPLICATIONS AT 30 FEET OR HEIGHER ABOVE GRADE
SACRIFICIAL LITE MUST BE TEMPERED GLASS.



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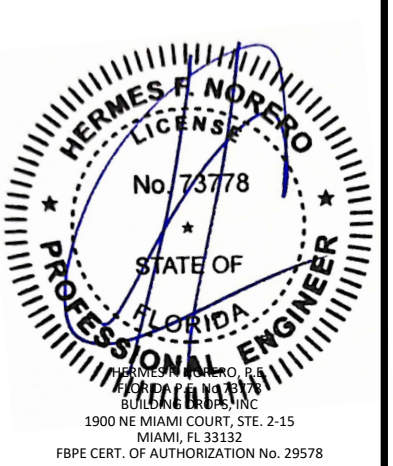
TITLE: YOW 225 THERMAL ALUMINUM PROJECT OUT WINDOW (WZ3) (IMPACT)

GLAZING DETAILS 1

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

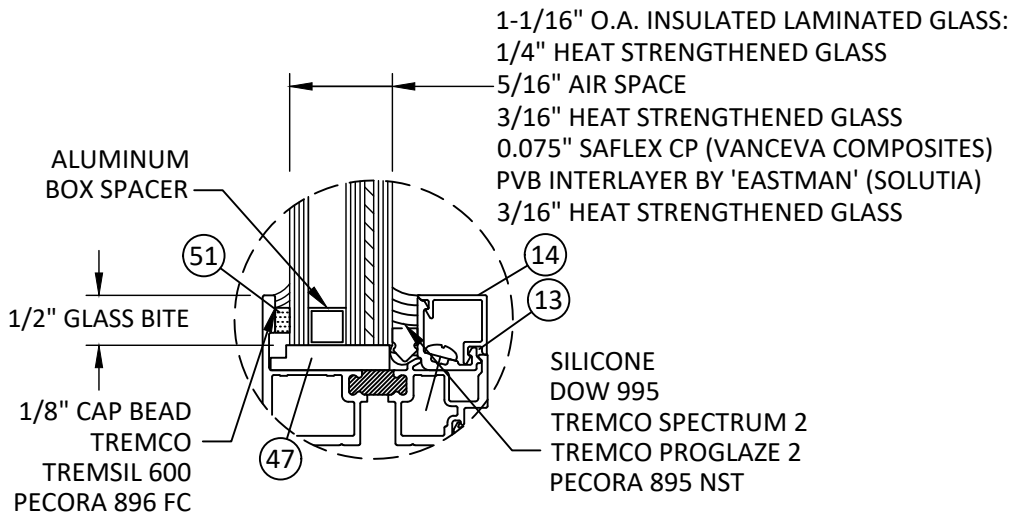
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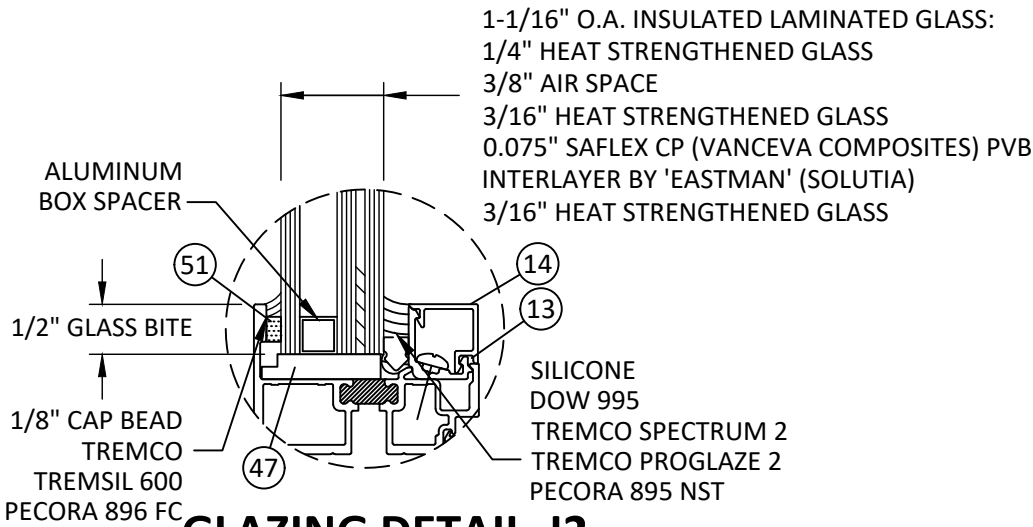


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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK183
SHEET:	12
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LARGE & SMALL MISSILE IMPACT RATED GLAZING OPTIONS (CONT...)

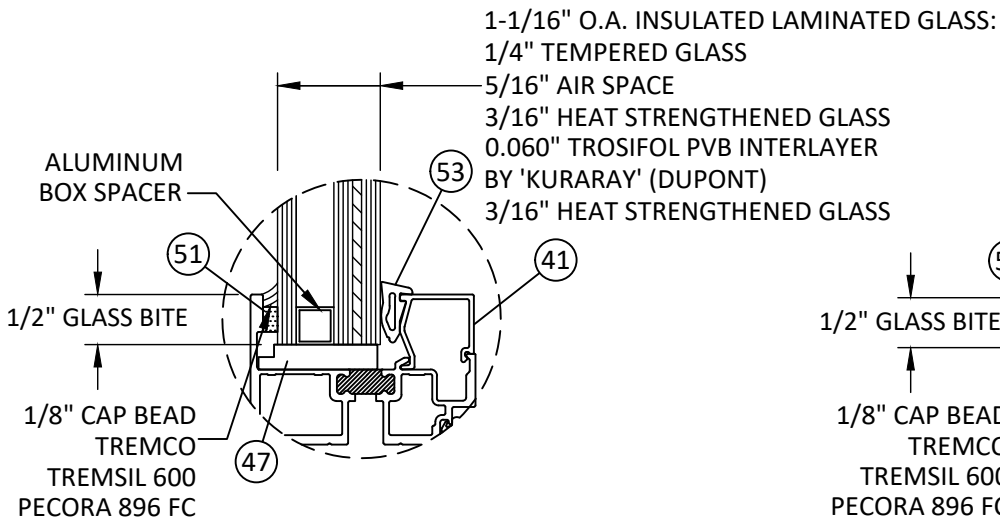


GLAZING DETAIL I1

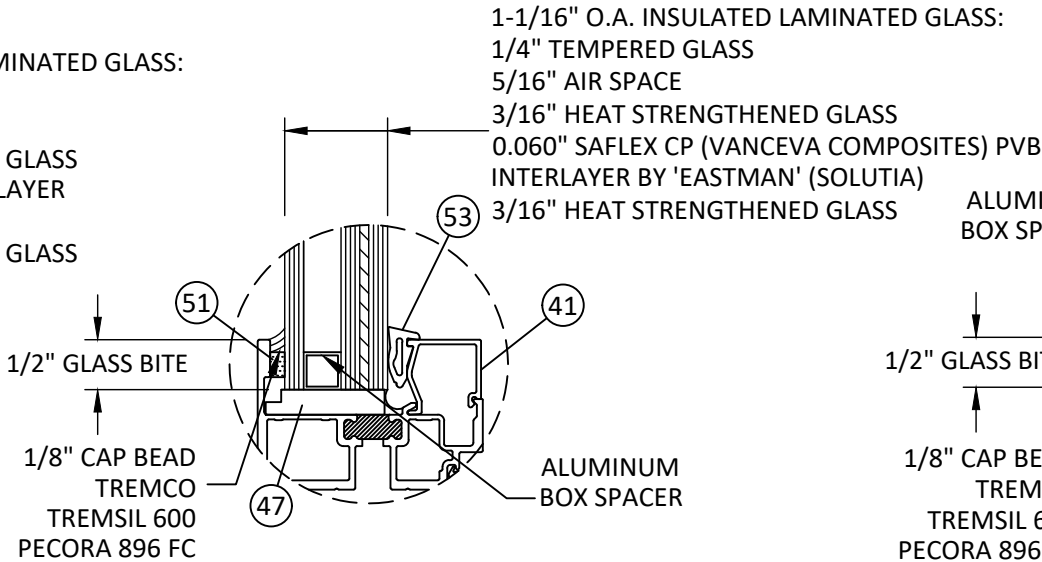


GLAZING DETAIL I2

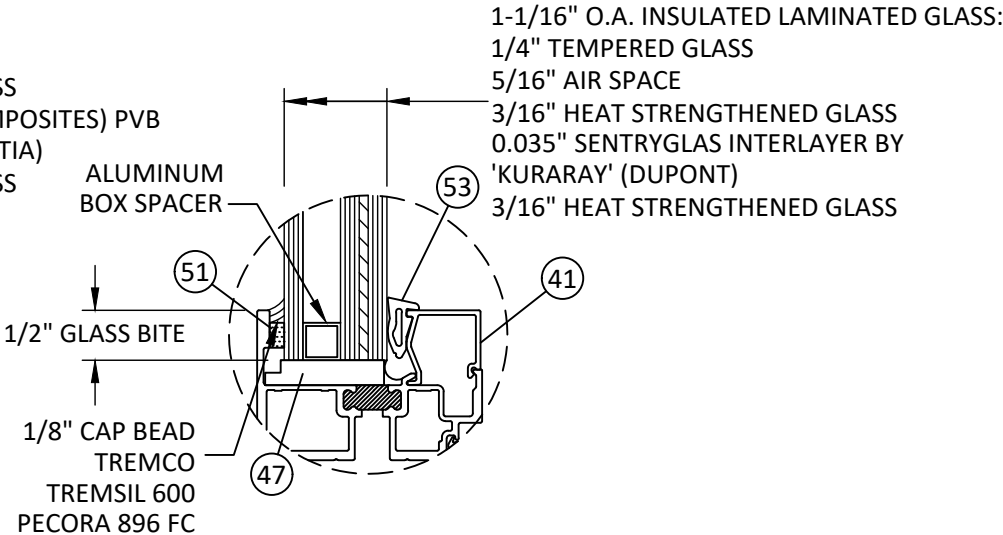
SMALL MISSILE IMPACT RATED GLAZING OPTIONS



GLAZING DETAIL F



GLAZING DETAIL G



GLAZING DETAIL H

ALUMINUM BOX SPACER:
AROUND THE PERIMETER OF THE GLASS

PRIMARY SEALANT:
POLYISOBUTYLENE (PIB)

SECONDARY SEALANT:
STRUCTURAL SILICONE INTENDED FOR
FABRICATION OF INSULATED GLASS
UNITS.

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.



YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 TUI THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)

GLAZING DETAILS 2

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
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
MISC UPDATES	SH	02.26.24

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FL #:
FL16313

DATE: 10.16.17

DWG. BY: AR
CHK. BY: HFN

SCALE: NTS

DWG. #: YKK183

SHEET:

13

OF 17

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YOW 225 TUH BILL OF MATERIALS					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
1A	BE9-4519	FRAME HEAD AND SILL	6063-T5	YKK-AP	HEAVY FRAME
1B	BE9-4501	FRAME HEAD AND SILL	6063-T5	YKK-AP	STANDARD FRAME
2	BE9-4502	FRAME JAMB	6063-T5	YKK-AP	
3	BE9-4509	MULLION	6063-T5	YKK-AP	
4	BE9-4534	VENT	6063-T5	YKK-AP	
5	BE9-4560	MULLION	6063-T5	YKK-AP	
6	BE9-4561	MULLION	6063-T5	YKK-AP	
7	BE9-4583	2-1/4" WEEPING SILL FLASHING	6063-T5	YKK-AP	
8	BE9-4577	RECEPTOR	6063-T5	YKK-AP	
9	E9-4231	PRESSURE BAR	6063-T5	YKK-AP	
10	E9-4513	ADAPTOR	6063-T5	YKK-AP	
11	E9-4524	FIXED GLASS STOP	6063-T5	YKK-AP	
12	E9-4525	FIXED SNAP COVER	6063-T5	YKK-AP	
13	E9-4526	VENT GLASS STOP	6063-T5	YKK-AP	
14	E9-4527	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 STOP COVER	6063-T5	YKK-AP	
23	BE9-4512	MEETING STILE INTEGRAL MULL	6063-T5	YKK-AP	
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					
31					
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	E1-1839	HINGE BASE 16" RH	6063-T5	YKK-AP	
36	E1-1840	HINGE BASE 16" LH	6063-T5	YKK-AP	
37					
38					
39					
40	E1-1959	SNUBBER BASE	6063-T5	YKK-AP	MADE FROM E9-4591, 2" LONG
41	E9-4506	SMI GLASS STOP	6063-T5	YKK-AP	
42	E2-0051	AT GASKET	SANTOPRENE	TREMCO	
43	E2-0133PC	SIDE BLOCK	EPDM	TREMCO	PEROXIDE CURED
44	E2-0359	PUSH - IN - SPACER	SCR900	TREMCO	1" LONG, 3" FROM CORNER, 10" O.C.
45	E2-0367	PUSH - IN - SPACER	SCR900	TREMCO	
46	E2-0625	AT GASKET	SANTOPRENE	TREMCO	
47	E2-0626PC	SETTING BLOCK	EPDM	TREMCO	PEROXIDE CURED
48	E2-0644	CORNER GASKET	BUTYL	YKK-AP	
49	E2-0362PC	SETTING BLOCK	EPDM	TREMCO	PEROXIDE CURED
50	E2-0647PC	SETTING BLOCK	EPDM	TREMCO	PEROXIDE CURED
51	E2-0670	BACKER TAPE	POLYURETHANE FOAM	SAINT GOBAIN	
52	E2-0682	GASKET - RUBBER	BUTYL	BRONZE CRAFT	FOR MULTI LOCK HANDLE

YOW 225 TUH BILL OF MATERIALS					
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER/SUPPLIER	COMMENTS
53	E2-0672	WEDGE GASKET	EPDM		DUROMETER 70 +/-5
54	E3-1103	SNUBBER - STANDARD	MOLDED NYLON	IPS USA	
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	BE9-4566	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 ½" 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					
75					
76					
77					
78	FF-1008-SS	#10 X 24 FH MS SS F	300 SS		FOR FOR SNUBBER TO VENT AND KEEPER
79	FF-1012-SS	#10-24 X 3/4" FH MS SS F	300 SS		FOR 4 BAR HINGE BASE
80	FF-1016-SS	#10-24 X 1" FH MS SS F	300 SS		FOR SNUBBER TO FRAME
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	E2-0768	JAMB BLOCK			AT BOTTOM OF JAMB WITH SILL FLASHING
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		(2) 1/4" DIA. WEEP HOLE			AT CENTER OF EA. W.O. AT FRAME SILL
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	BE9-4579	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 3/8" PHSMS TYPE AB	STAINLESS STEEL		
104	E9-4587	4" SILL TRIM	6063-T5	YKK-AP	
105	E1-2003	END DAM			



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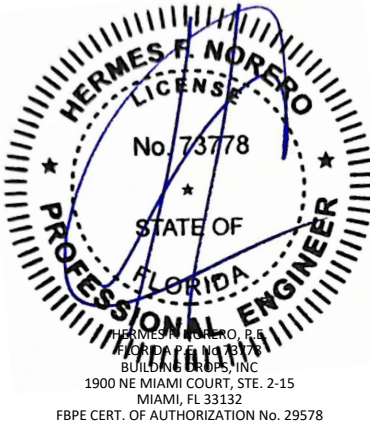
TITLE:
YOW 225 TUH THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)
BILL OF MATERIALS

PREPARED BY:
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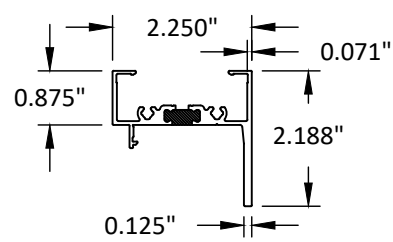


HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

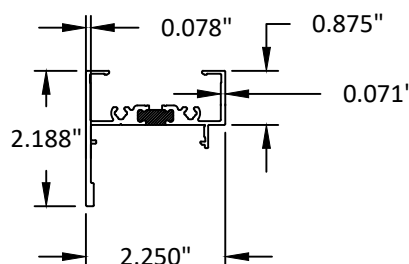
FL #:		FL16313
DATE:		10.16.17
DWG. BY: AR	CHK. BY: HFN	
SCALE:		NTS
DWG. #:		YKK183
SHEET:		14 OF 17

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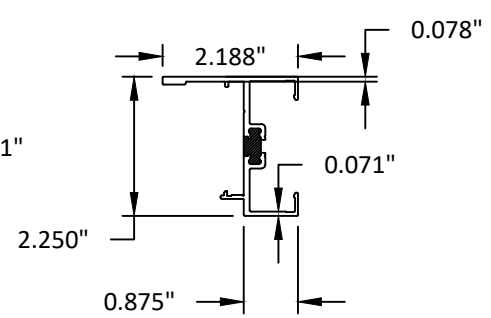
1A FRAME HEAD AND SILL
6063-T5



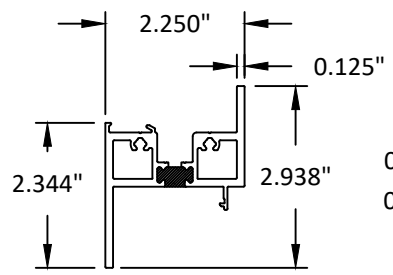
1B FRAME HEAD AND SILL
6063-T5



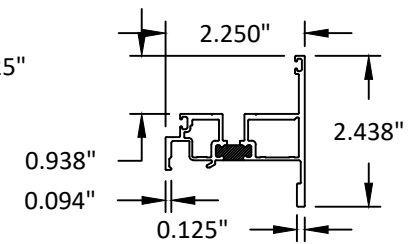
2 FRAME JAMB
6063-T5



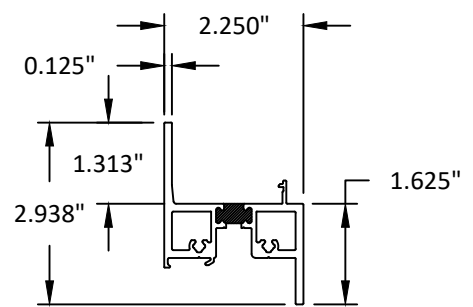
3 MULLION
6063-T5



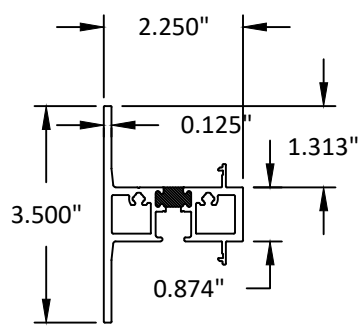
4 VENT
6063-T5



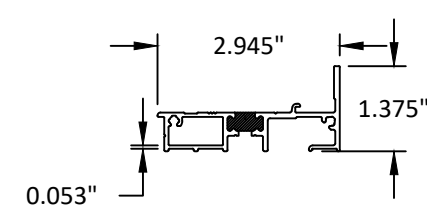
5 MULLION
6063-T5



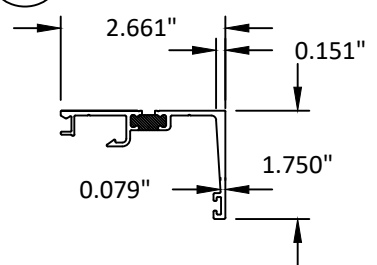
6 MULLION
6063-T5



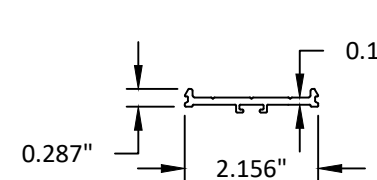
7 2 1/4" WEEPING SILL FLASHING
6063-T5



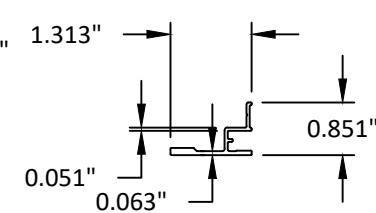
8 RECEPTOR
6063-T5



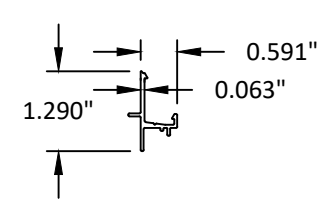
9 PRESSURE BAR
6063-T5



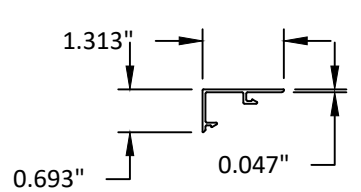
10 ADAPTOR
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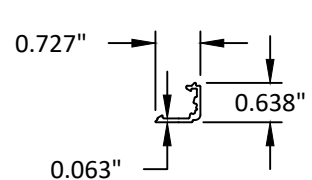
11 FIXED GLASS STOP
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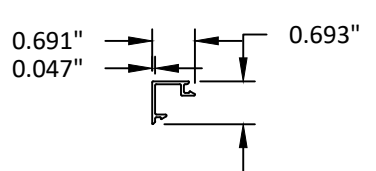
12 FIXED SNAP COVER
6063-T5



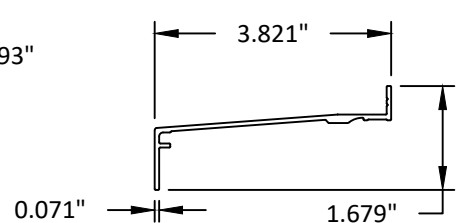
13 VENT GLASS STOP
6063-T5



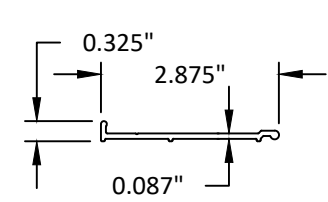
14 VENT SNAP COVER
6063-T5



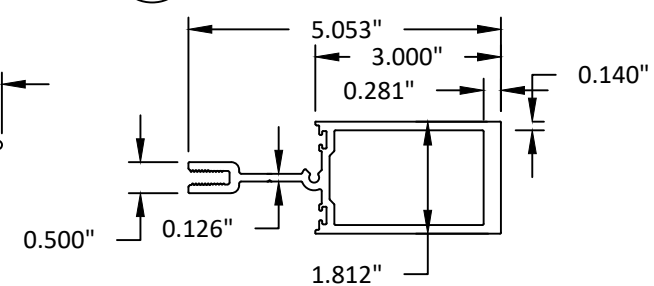
15 3" SILL TRIM
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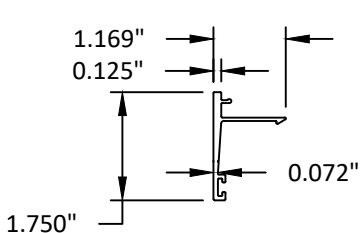
16 SILL TRIM BASE
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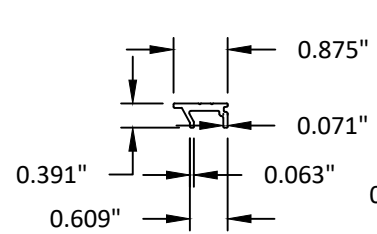
17 STACKING MULLION
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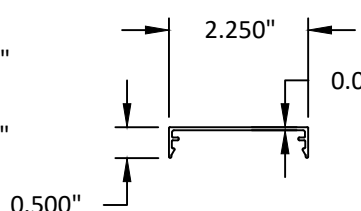
18 RECEPTOR STOP
6063-T5



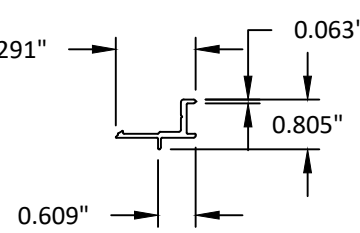
19 LOCK BAR BASE
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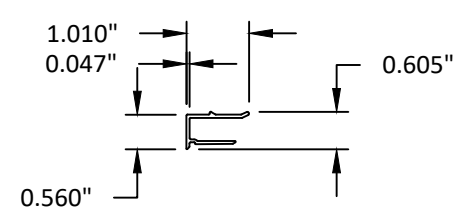
20 COVER
6063-T5



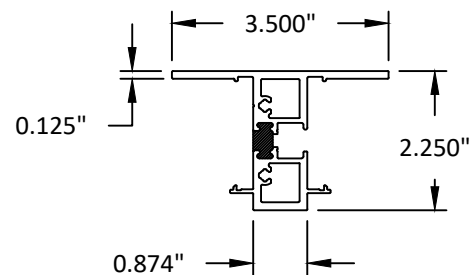
21 FIXED GLASS STOP
6063-T5



22 FIXED GLASS STOP COVER
6063-T5



23 MEETING STILE MULLION
6063-T5



YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
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TITLE:
YOW 225 THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)

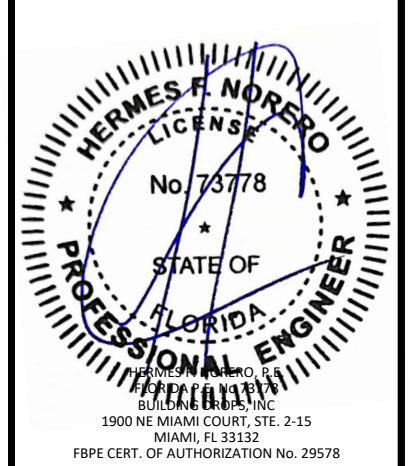
COMPONENTS 1

PREPARED BY:
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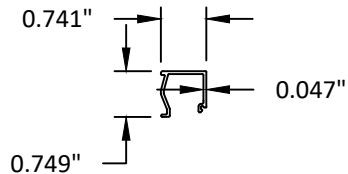
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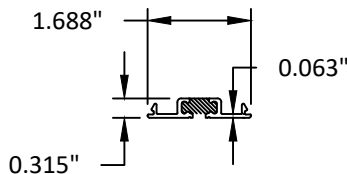
FL #:	FL16313
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DWG. BY:	AR
CHK. BY:	HFN
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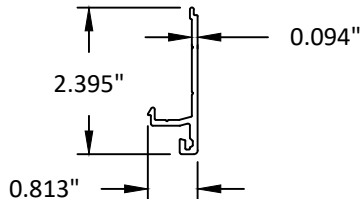
41 SMI GLASS STOP
6063-T5



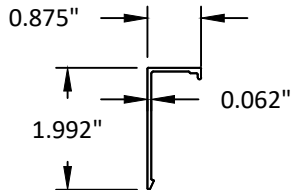
60 THROUGH FRAME FILLER PLATE
6063-T5



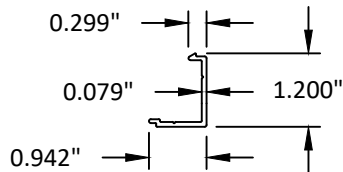
63 ANCHOR CLIP
6063-T5



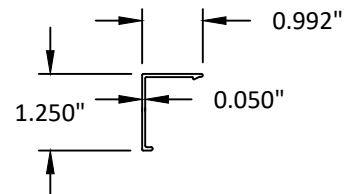
64 ANCHOR CLIP
6063-T5



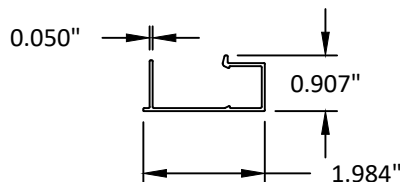
65 1 1/4" X 1" CLIP
6063-T5



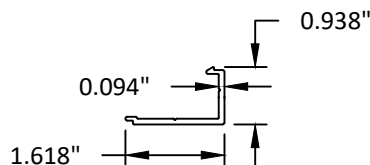
66 1 1/4" X 1" COVER
6063-T5



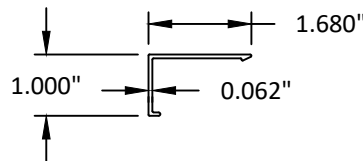
67 STRAP ANCHOR COVER
6063-T5



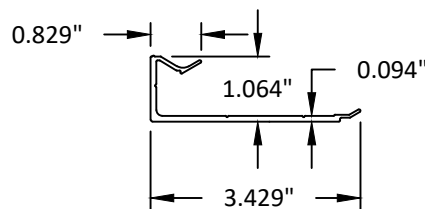
68 1" X 1 11/16" CLIP
6063-T5



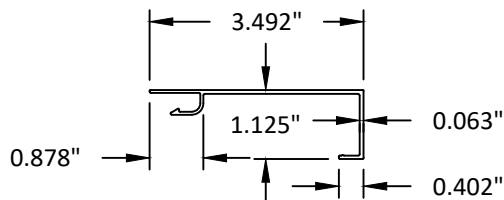
69 1" X 1 11/16" COVER
6063-T5



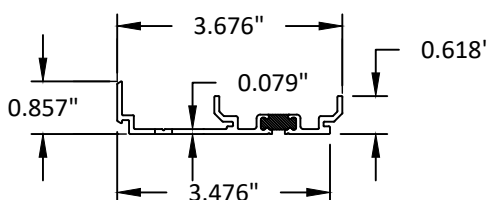
70 1 1/8" X 3 1/2" CLIP
6063-T5



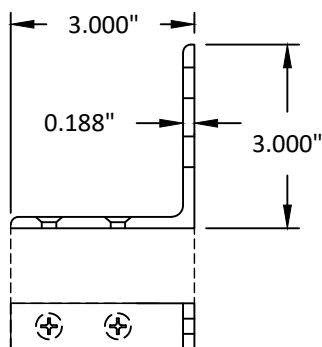
71 1 1/8" X 3 1/2" COVER
6063-T5



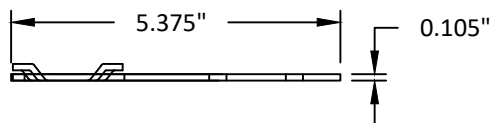
72 STRAP ANCHOR
6063-T5
MINIMUM 4 1/2" LENGTH



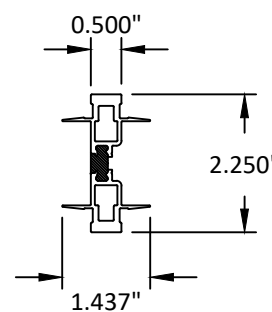
73 MULLION CLIP
6063-T5



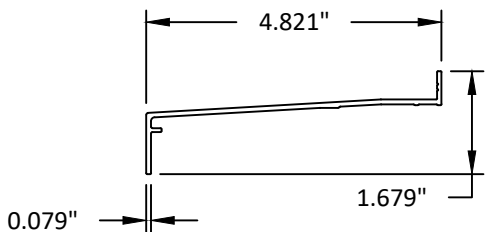
98 TWIST ANCHOR
GALV. STEEL



99 I MULLION
6063-T5



104 4" SILL TRIM
6063-T5



YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 225 TUI THERMAL ALUMINUM
PROJECT OUT WINDOW
(WZ3) (IMPACT)

COMPONENTS 2

PREPARED BY:

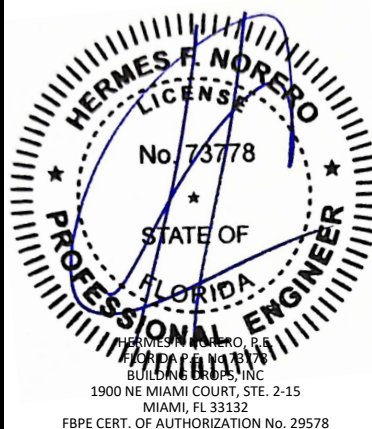
BUILDING DROPS, INC.

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
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
MISC UPDATES	SH	02.26.24

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.



FL #:	FL16313
DATE:	10.16.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK183
SHEET:	16

WEB: www.buildingdrops.com

