

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION 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.
- 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 - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. 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 350 TU THERMAL ALUMINUM

CASEMENT OUTSWING / INSWING WINDOW

(NON-HVHZ) (NON-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/A440-17
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. DOCUMENTS SHALL BE APPROVED BY AUTHORITY HAVING JURISDICTION (AHJ).
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
7. 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.
8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 17 FOR GLAZING DETAILS.
9. GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT FBC, CHAPTER 24.
- 10.GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
- 11.GLAZING GASKETS SHALL MEET THE MINIMUM PERFORMANCE REQUIREMENTS AS APPLICABLE IN CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

- NOTES:

1. MAXIMUM SIZE LISTED RIGHT IS AS-TESTED OVERALL SINGLE UNIT VENT SIZE, SEE SHEET 3 FOR ALTERNATE APPROVED VENT SIZES & HARDWARE OPTIONS AND SHEET 2 FOR QUALIFIED CONFIGURATIONS.

2. MAXIMUM VENT SQUARE FOOTAGE SHALL NOT EXCEED TESTED SIZE.

3. SEE SHEET 17 FOR GLAZING DETAILS

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DESIGN PRESSURE TABLE		
MAX. VENT SIZE	MAX. DP	IMPACT RATING
SEE SHEETS 4 & 4A	+65/-65 PSF	NON-IMPACT
** SEE SHEETS 5 & 6	+65/-65 PSF	NON-IMPACT

** MEETS THE REQUIREMENTS OF AAMA 513-14 FORCES AND MOTIONS.

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TITLE:

YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)

INSTALLATION & GENERAL NOTES

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2023 FBC CODE UPDATE	MS	05.05.23
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Reason: I am approving this document
Date: 2024.02.28 11:04:10 -08'00'

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PROFESSIONAL ENGINEER

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FL #:

FL16312

DATE:

8.24.15

DWG. BY:

SM

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK150

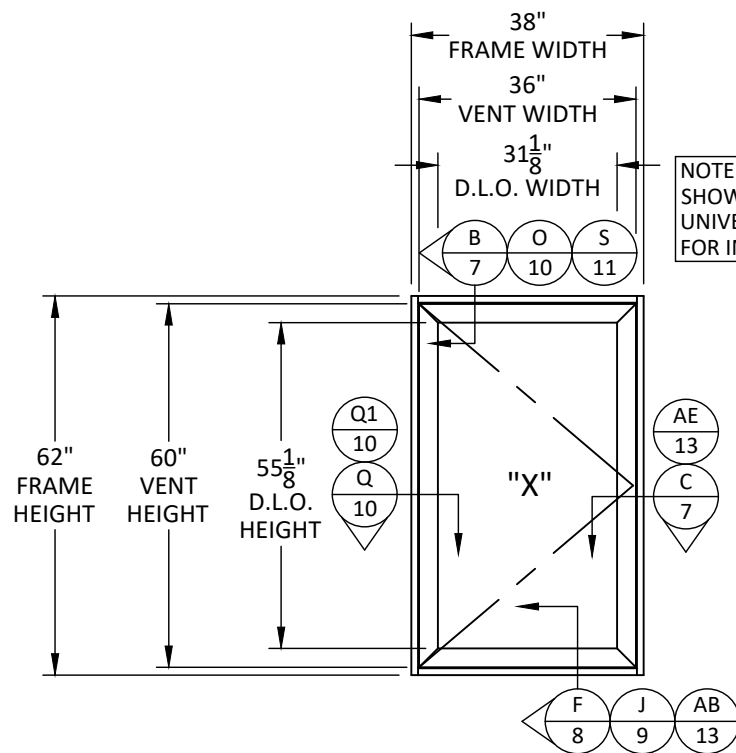
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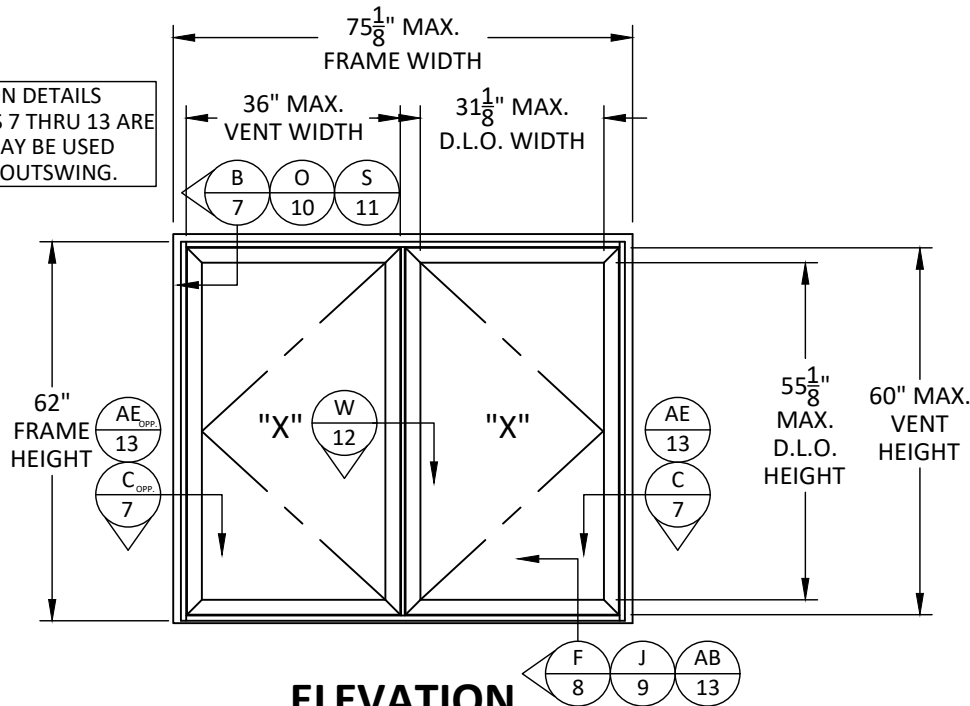
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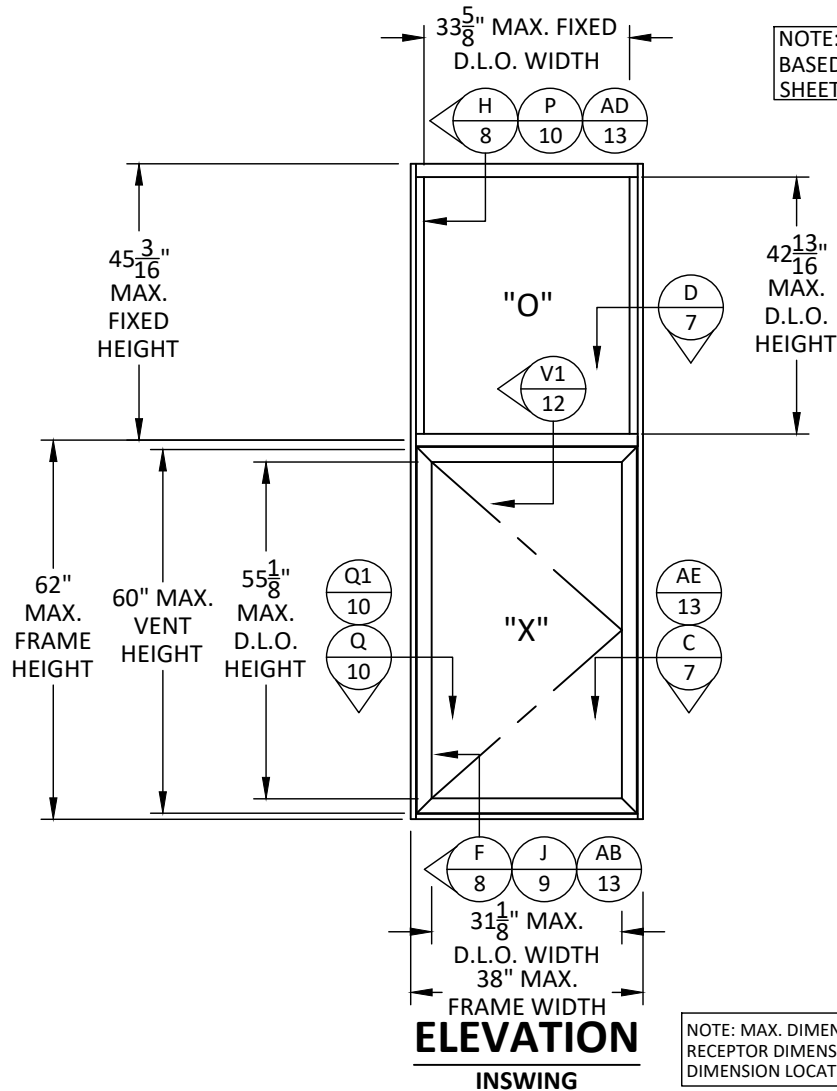
ELEVATION
INSWING

NOTE: INSTALLATION DETAILS SHOWN ON SHEETS 7 THRU 13 ARE UNIVERSAL, AND MAY BE USED FOR INSWING AND OUTSWING.



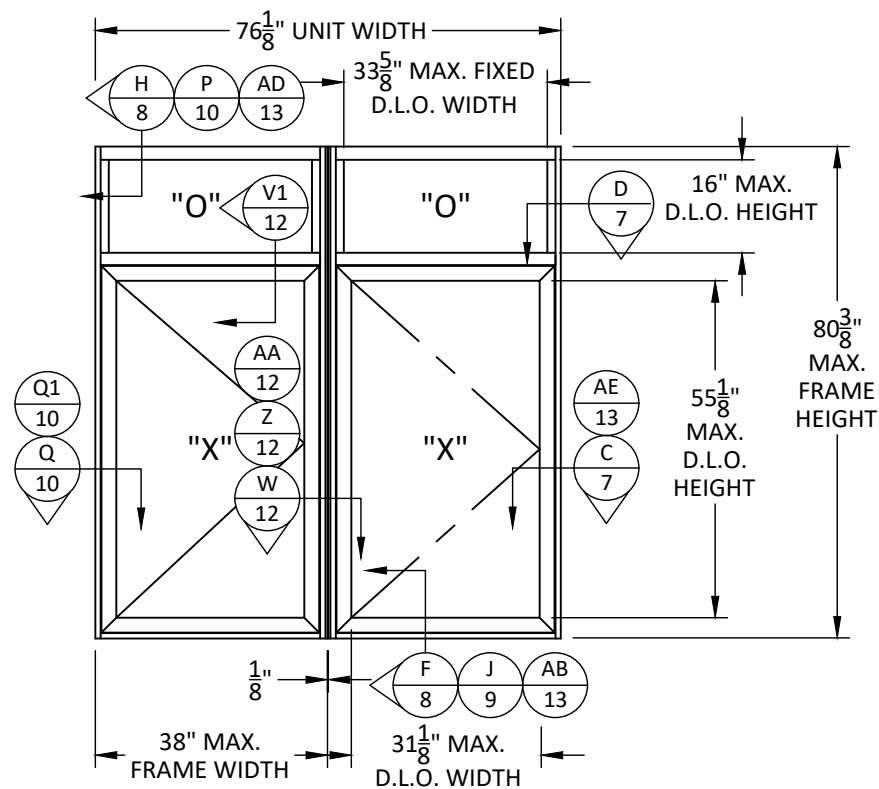
ELEVATION
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NOTE: MAX. DIMENSIONS VARIES BASED ON APPROVED SIZES IN SHEETS 4 THRU 6.



ELEVATION
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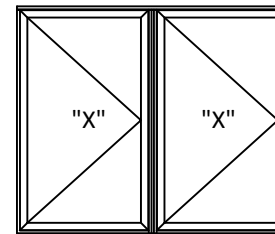
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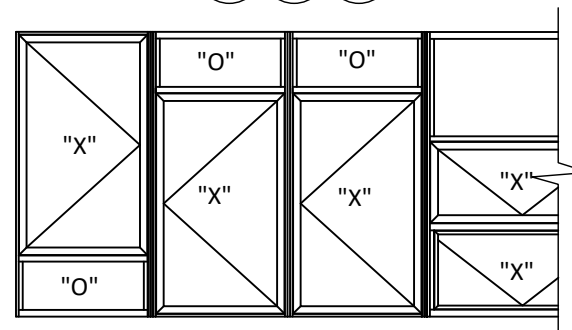
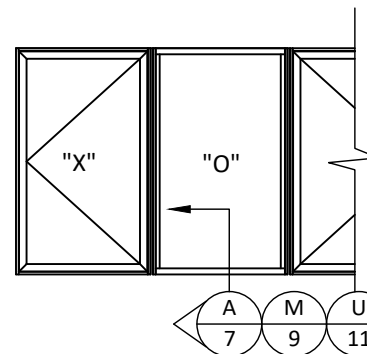
ELEVATION
INSWING

NOTE: SEE FIXED WINDOW APPROVAL INSTALLATION DRAWING # YKK151 FOR MAX. FIXED WINDOW DIMENSIONS.

QUALIFIED CONFIGURATIONS



- NOTES:
- LEFT HAND & RIGHT HAND UNITS ARE INTERCHANGEABLE. DETAILS SHALL BE SIMILAR TO THOSE SHOWN HEREIN.
 - ELEVATIONS & DETAILS REFERENCES INDICATED ARE REPRESENTATIVE OF BOTH INSWING AND OUTSWING OPERATION.



- NOTES:
- TESTED SIZE UNITS MAY BE MULLED SIDE BY SIDE IN COMBINATIONS OF CASEMENT/FIXED, CASEMENT/CASEMENT, CASEMENT/PROJECT OUT, AND/OR OTHER APPROVED PRODUCTS.
 - MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL.
 - FIXED WINDOWS AND OTHER ALTERNATE WINDOW TYPES UNDER SEPARATE APPROVAL (SEE APPROVED INSTALLATION INSTRUCTIONS YKK0151 & YKK152).
 - UNITS MAY UTILIZE INTEGRAL MULLS FOR FIXED OVER CASEMENT OR CASEMENT OVER FIXED CONFIGURATIONS



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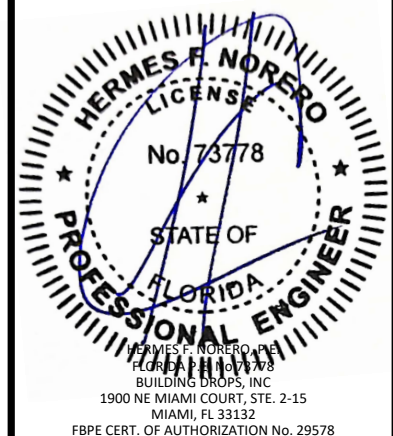
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CASEMENT WINDOW
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ELEVATIONS & QUALIFIED CONFIGS.

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SCALE: **NTS**

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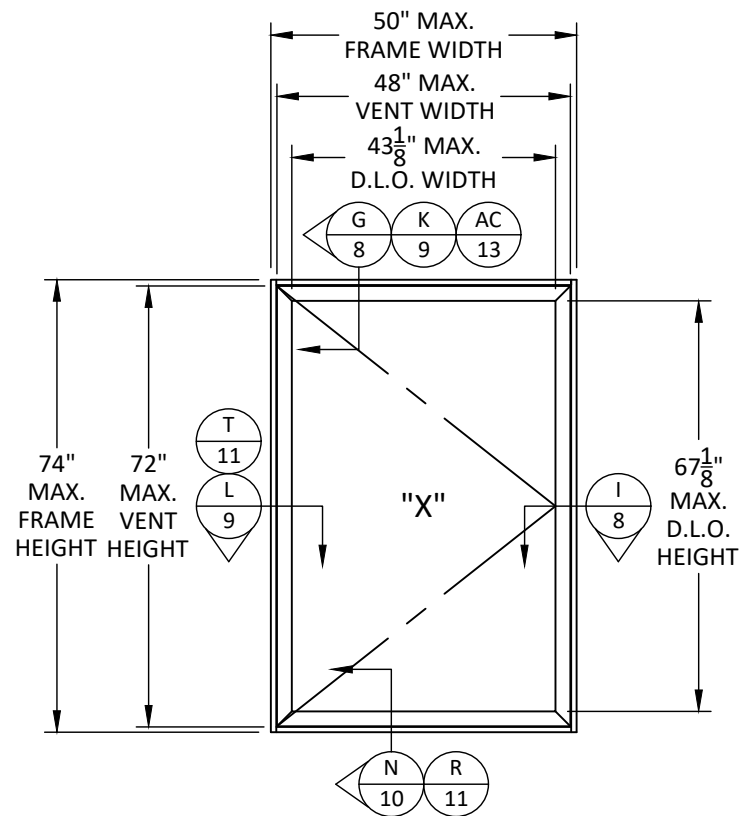
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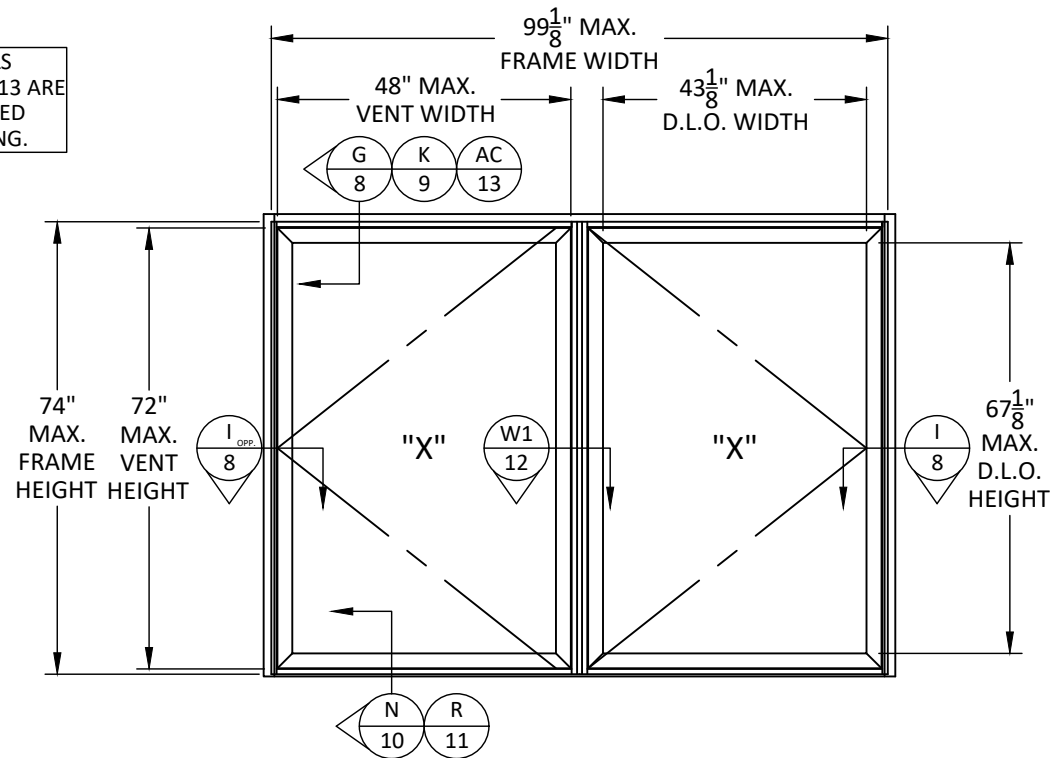
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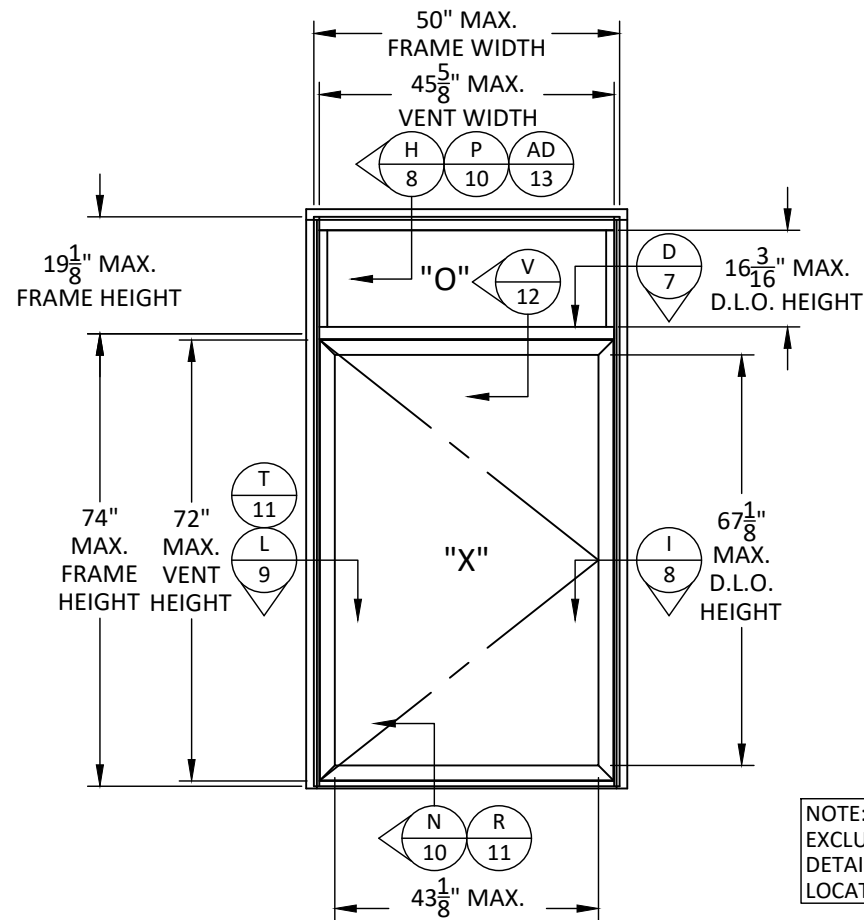
ELEVATION
OUTSWING

NOTE: INSTALLATION DETAILS SHOWN ON SHEETS 7 THRU 13 ARE UNIVERSAL, AND MAY BE USED FOR INSWING AND OUTSWING.



ELEVATION
OUTSWING

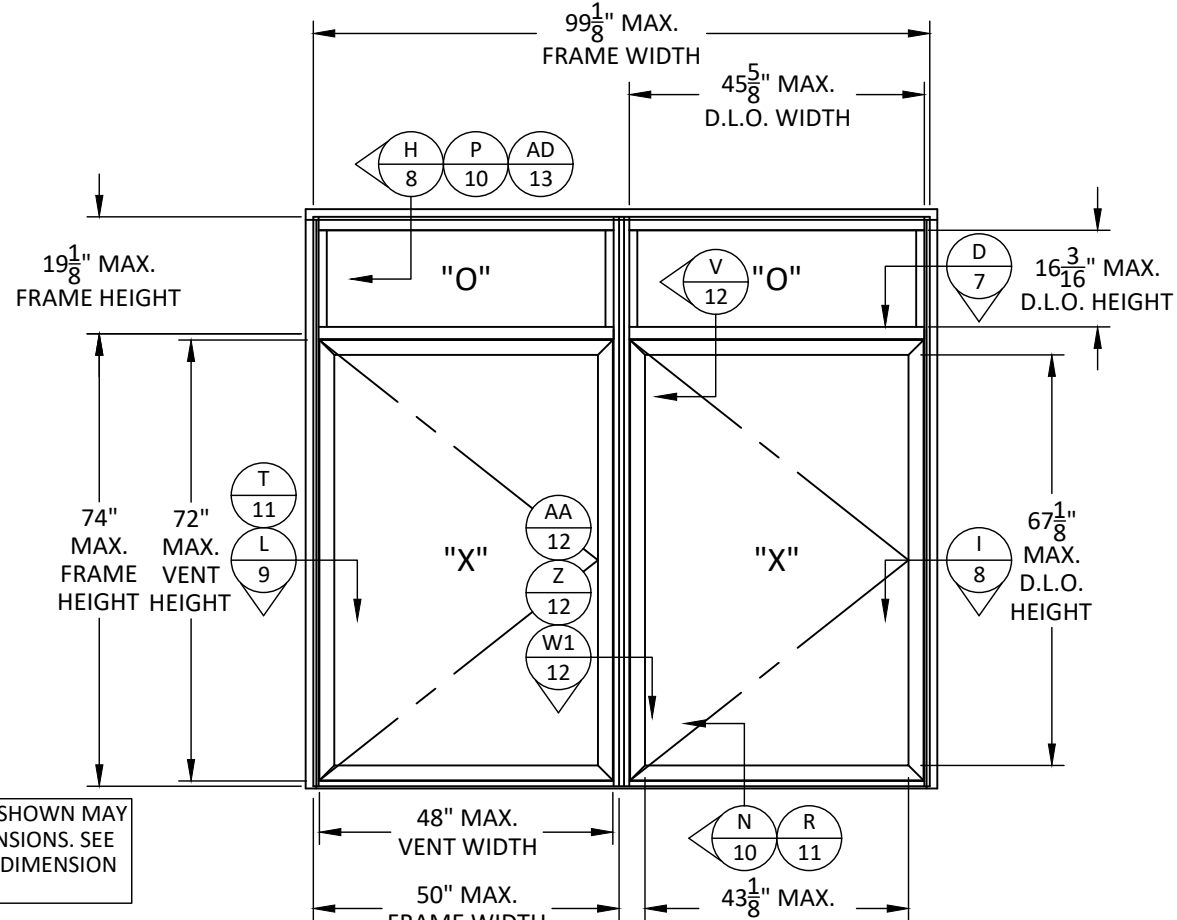
NOTE: MAX. DIMENSIONS VARIES BASED ON APPROVED SIZES IN SHEETS 4 THRU 6.



ELEVATION
OUTSWING

NOTE: MAX. DIMENSIONS SHOWN MAY EXCLUDE RECEPTOR DIMENSIONS. SEE DETAILS SHEET 7 FOR O.A. DIMENSION LOCATIONS.

NOTE: SEE FIXED WINDOW APPROVAL INSTALLATION DRAWING # YKK151 FOR MAX. FIXED WINDOW DIMENSIONS.



ELEVATION
OUTSWING



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CASEMENT WINDOW
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ELEVATIONS

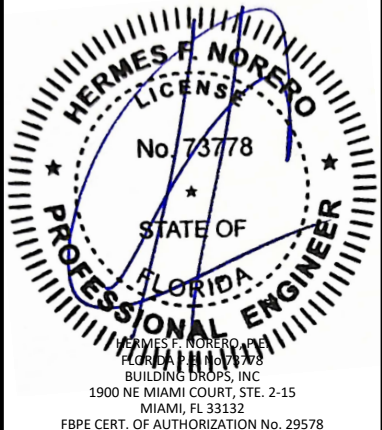
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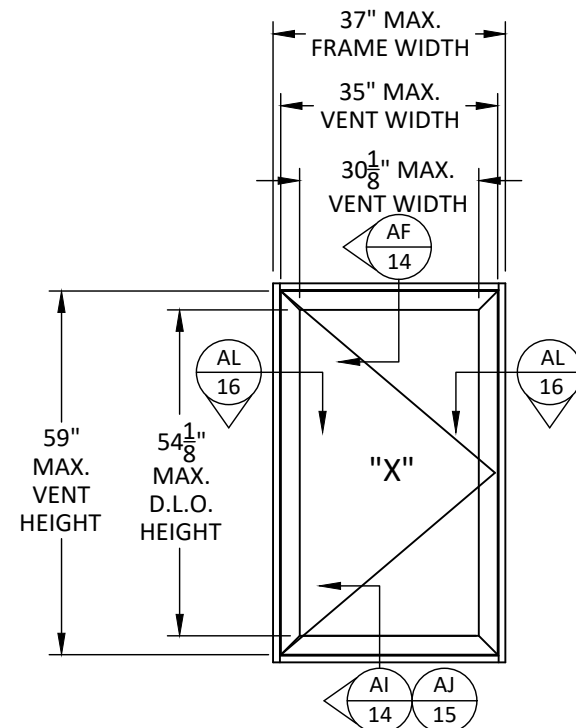
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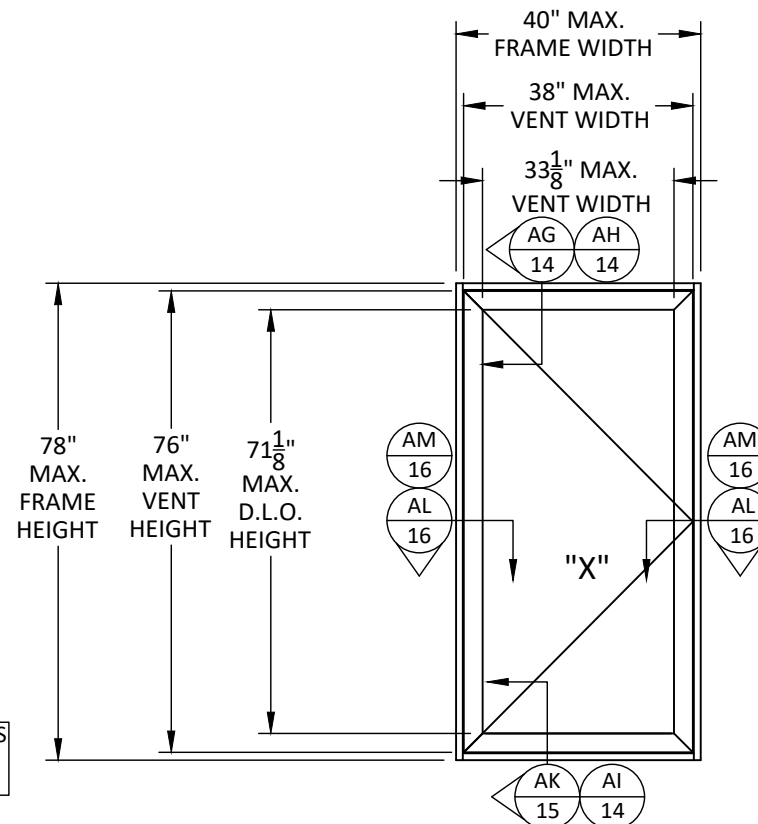
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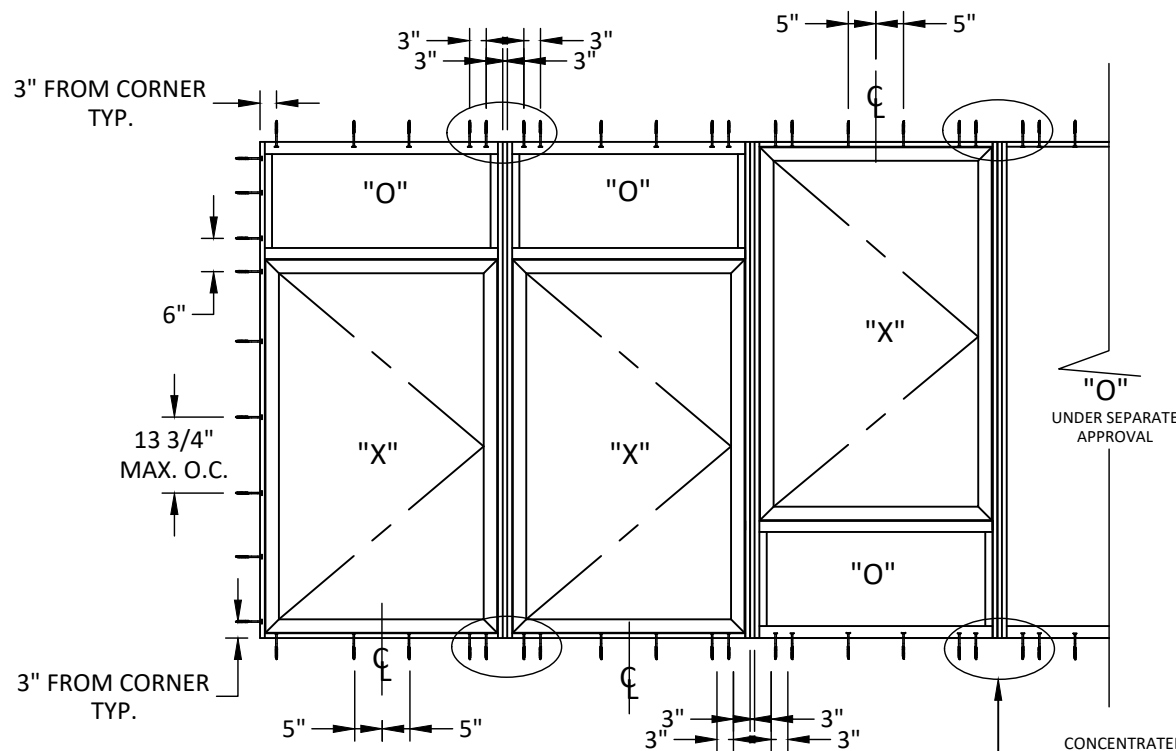
ELEVATION
APPROVED FOR ACCESSIBLE
WINDOW HARDWARE

NOTE: MAX. DIMENSIONS VARIES
BASED ON APPROVED SIZES IN
SHEETS 4 THRU 6.

NOTE: 4 BAR HINGES AND BUTT HINGES CAN BE USED ON
EITHER INSWING OR OUTSWING.



ELEVATION
APPROVED FOR ACCESSIBLE
WINDOW HARDWARE



ANCHOR LAYOUT

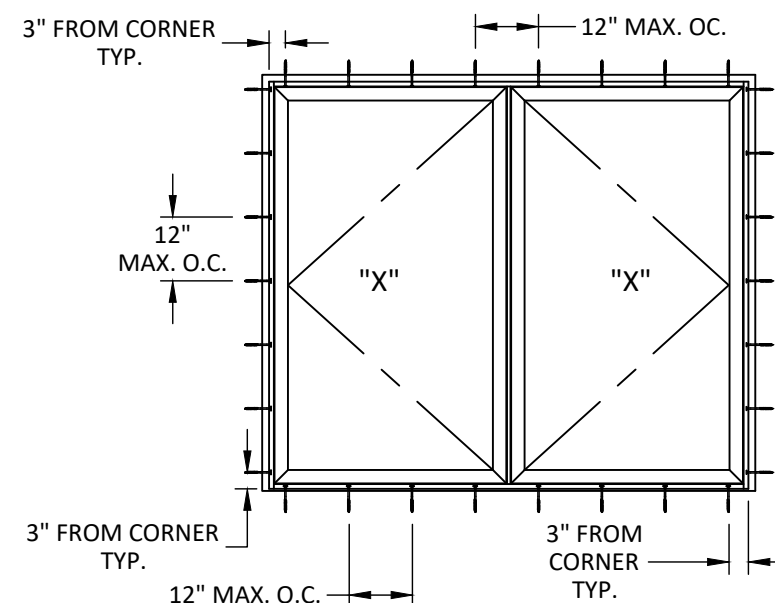
STRAP, ANCHOR CLIP, THRU FRAME, TWIST ANCHOR,
RECEPTOR SYSTEM, OR TRIM/CLIP INSTALLATIONS

CONCENTRATED ANCHOR TABLE

MAX. DESIGN PRESSURE (+/- PSF)	MIN. QTY REQUIRED AT EA. END OF STACK MULL*	MIN. QTY REQUIRED AT SILL OF STACK MULL FOR RECEPTOR INSTALLATION**
35	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, ANCHOR
CLIP, STRAP, TWIST ANCHOR, AND THROUGH FRAME
INSTALLATIONS.
** QUANTITY OF ANCHORS IS THE MINIMUM REQUIRED
QUANTITY OF ANCHORS THROUGH THE RECEPTOR SILL (SEE
TYP. DETAIL A/7) ADJACENT TO EA. SIDE OF STACK MULL.
ANCHORS SHALL BE SPACED 3" O.C. TO EA. SIDE OF MULL.

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



ANCHOR LAYOUT

STRAP, ANCHOR CLIP, THRU FRAME, TWIST ANCHOR,
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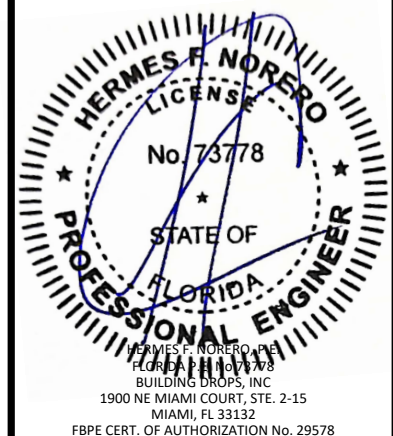
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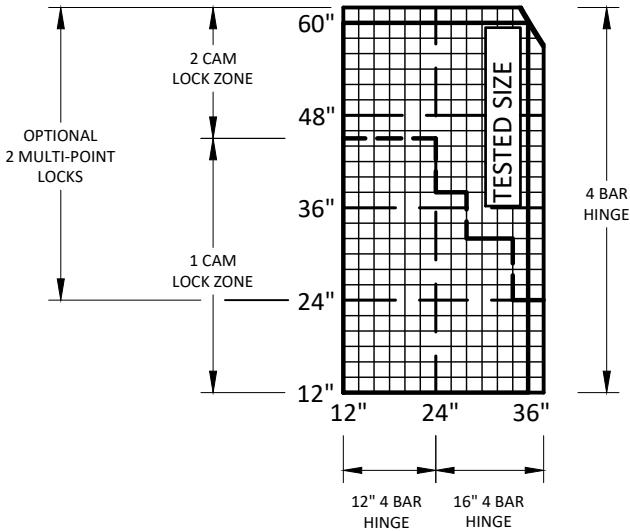
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SHEET:

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APPROVED INSWING VENT SIZES



- 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.
 - VENT SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
 - FRAME SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
 - 1 CAM AND 2 CAM LOCK ZONE REPRESENTS SIZES WHICH MAY USE ONLY 1 CAM LOCK INSTEAD OF 2 AS-TESTED.
 - GLASS TYPE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM E1300.
 - UNITS SHALL FOLLOW HARDWARE REQUIREMENTS SHOWN BELOW.

INSWING HARDWARE SCHEDULE

HARDWARE TYPE	OPTION#	DESCRIPTION
LOCK OPTIONS	1	BRONZECRAFT CAM HANDLES (E1-1503/1504) AT LOCK STILE OF VENT, 8" FROM EA. END SECURED WITH (2) #10 X 1/2" FH SMS. BRONZECRAFT KEEPERS (E1-1707) SECURED WITH (2) #10 X 1/2" FH SMS.
	2	MULTI-POINT LOCK ASSEMBLY (E1-1703(UPPER), E1-1701(LOWER)). LOCK KEEPERS (E1-1707) LOCATED AT 8" FROM EACH END, SECURED WITH (2) #10 X 1/2" FH SMS. ACTUATED BY E1-1505, E1-1966 OR E1-1994 MULTI LOCK HANDLE.
HINGE OPTIONS	1	16", 4-BAR HINGE (4K-14208) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS.
	2	12", 4-BAR HINGE (4K-14207) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS.

SNUBBER SCHEDULE

NUMBER OF REQUIRED SNUBBERS AT HINGE JAMB	VENT HEIGHT (H)
1	62" > H > 32"

MULTI-POINT SCHEDULE

NUMBER OF REQUIRED LOCK ENGAGEMENTS	VENT HEIGHT (H)
2	62" > H > 24"



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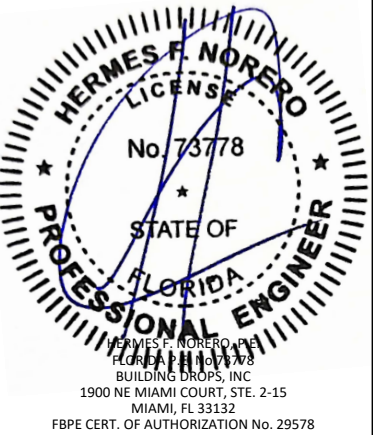
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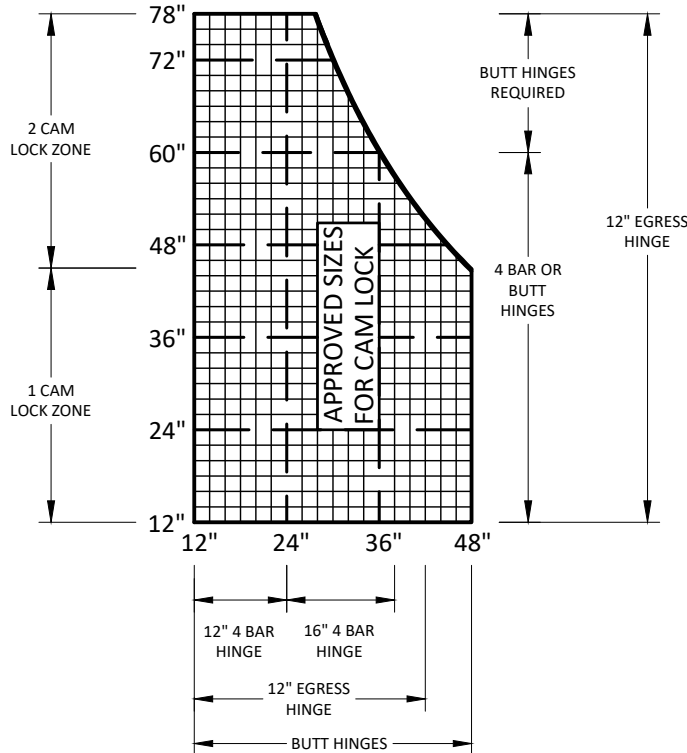
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OUTSWING HARDWARE SCHEDULE

CAM LOCK SCHEDULE



BUTT HINGE SCHEDULE

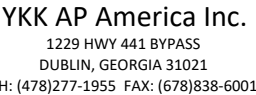
NUMBER OF REQUIRED BUTT HINGES	VENT HEIGHT (H)
4	$90" > H > 72"$
3	$72" > H > 44"$
2	$44" > H$

NOTE: MAX. SPACING BETWEEN HINGES IS 28". HINGES 8" FROM CORNERS TYP.

HARDWARE TYPE	OPTION#	DESCRIPTION
LOCK OPTIONS	1	BRONZECRAFT CAM HANDLES (E1-1541/1542) AT LOCK STYLE OF VENT, 8" FROM EA. END SECURED WITH (2) #10 X 1/2" FH SMS. BRONZECRAFT KEEPERS (E1-519) SECURED WITH (2) #10 X 1/2" FH SMS.
	2	MULTI-POINT LOCK ASSEMBLY (E1-1505 OR E1-1966 OR E1-1994, E1-1954, E1-1955, E1-1952, E9-4593), SEE MULTI-POINT TABLE FOR REQUIRED LOCK POINT SCHEDULE. LOCK KEEPERS (E1-1954, E1-1955) SECURED WITH (2) #10 X 1/2" FH SMS.
HINGE OPTIONS	1	BUTT HINGE (E1-1714/1715), EA. HINGE FASTENED TO FRAME WITH (3) #10-24 X 7/16" PL PH MS AND TO L-ANGLE WITH (3) #10-24 X 7/16" PL PH MS. L-ANGLE SECURED TO VENT WITH (3) #10-24 X 1/2" PL PH SMS. SEE BUTT HINGE SCHEDULE FOR REQUIRED QUANTITIES.
	2	16", 4-BAR HINGE (4K-14208) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL PH SMS. SEE SNUBBER SCHEDULE FOR REQUIRED QUANTITY OF SNUBBERS.
	3	12", 4-BAR HINGE (4K-14207) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS.
	4	12", 4-BAR EGRESS HINGE ASSEMBLY (E1-1957/1960) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS. SEE SNUBBER SCHEDULE FOR REQUIRED QUANTITY OF SNUBBERS.

NOTES:

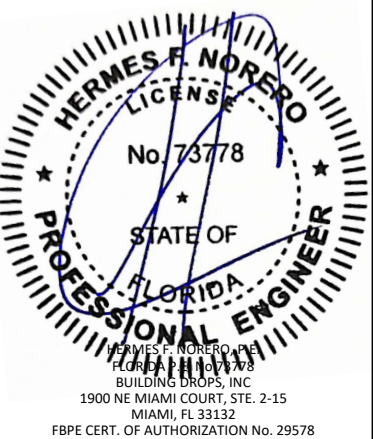
- VENT SIZES SHOWN IN DIAGRAM ABOVE ARE APPROVED FOR USE AT +65 / -65 PSF.
- MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL.
- VENT SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
- FRAME SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
- 1 CAM AND 2 CAM LOCK ZONE REPRESENTS SIZES WHICH MAY USE ONLY 1 CAM LOCK INSTEAD OF 2 AS-TESTED. SEE HARDWARE SCHEDULE FOR ALTERNATE MULTI-POINT LOCK HARDWARE REQUIREMENTS.
- GLASS TYPE SHALL COMPLY WITH ASTM E1300.
- UNITS SHALL FOLLOW HARDWARE REQUIREMENTS SHOWN ABOVE.



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REMARKS	BY	DATE
2023 FBC CODE UPDATE	MS	05.05.23
MISC. UPDATE	SH	02.26.24

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FL #: FL16312

DATE: 8.24.15

DWG. BY: SM	CHK. BY: HFN
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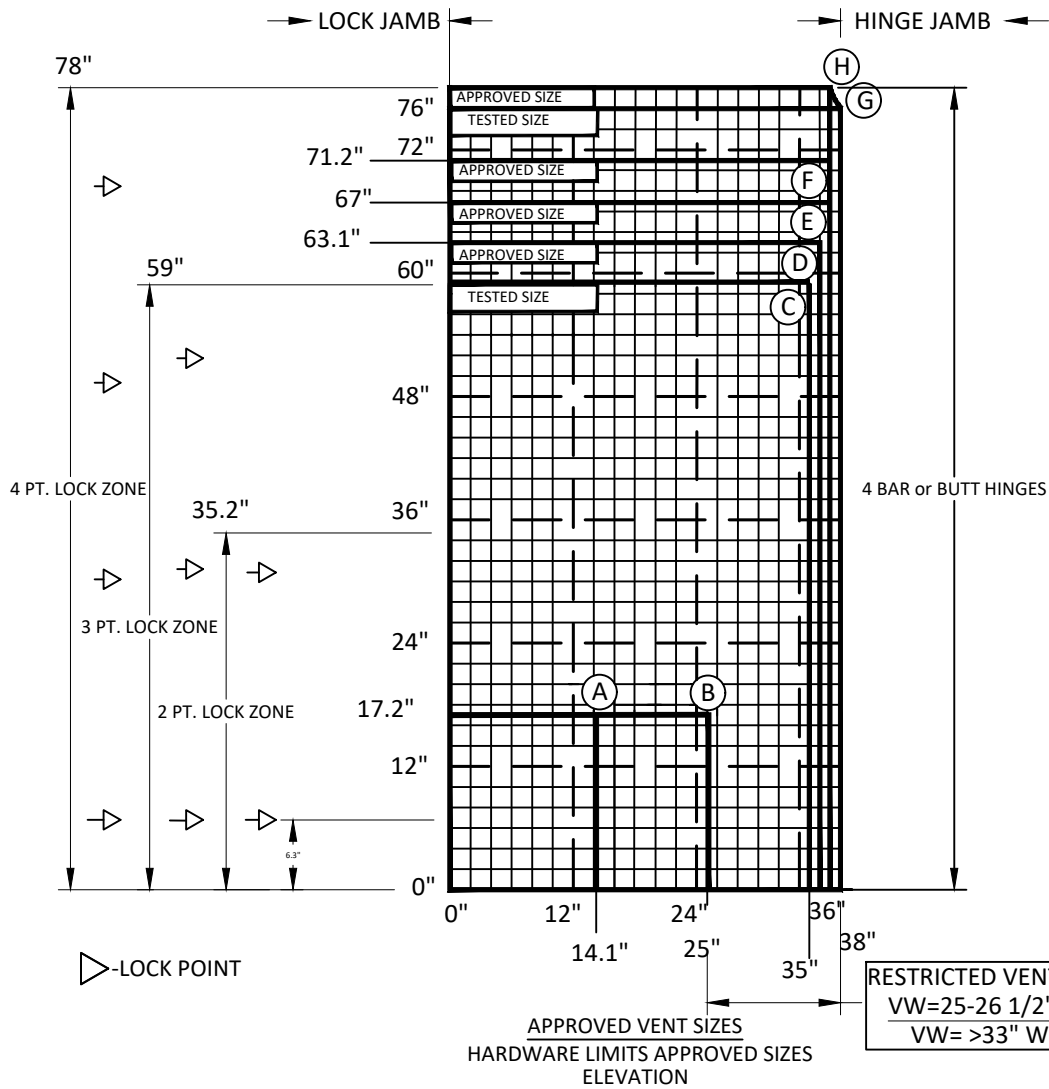
SCALE: NTS

DWG. #: YKK150

SHEET:

4A

ACCESSIBLE WINDOW SYSTEM - (AAMA 513-14)
VENT SIZES SHOWN



APPROVED VENT SIZES
CASEMENT OUTSWING (ACCESSIBLE HARDWARE)

APPROVED VENT SIZE RANGES BASED ON 45 PSF & 65 PSF WITH ROTARY OPERATOR					
	VENT SIZE	VENT SQUARE FEET	ALLOWABLE DESIGN PRESSURE	VENT WEIGHT @ 7.1 Lbs. PER SQ. FT.	ROTATIONAL LOAD (REQ'D FOR 4 BAR HINGE ONLY) USING 1" IG (1/4" X 1/4")
A	MINIMUM SIZE: (BUTT HINGE ONLY) 14 1/8"[358.8] X 17 1/4"[438.1]	1.7	65	12.6	NOT REQUIRED
B	MINIMUM SIZE: (4 BAR HINGE ONLY) 25"[635] X 17 1/4"[438.1]	3.0	65	21.3	15.4 Lbs.
C	TESTED SIZE: 35"[889.0] X 59"[1499]	14.3	65	101.8	30.2 Lbs.
D	36"[914.4] X 63 1/8"[1603]	15.7	60	112.0	31.9Lbs.
E	37"[939.8] X 67"[1702]	17.2	55	122.2	33.8 Lbs.
F	37 1/2"[952.5] X 71 1/4"[1810]	18.6	50	131.7	34.7 Lbs.
G	TESTED SIZE: 38"[965.2] X 76"[1930]	20.1	45	142.4	35.6 Lbs.
H	MAXIMUM SIZE: 37"[939.8] X 78"[1981]	20.0	45	142.3	33.8 Lbs.

LOCK-POINT SCHEDULE

NUMBER OF REQUIRED LOCK ENGAGEMENTS	VENT HEIGHT (H)
2	> 17.2"-35.2"H
3	> 35.25"-59.2"H
4	> 59.25"-78"H

BUTT HINGE SCHEDULE

NUMBER OF REQUIRED BUTT HINGES	VENT HEIGHT (H)
2	< 59.2" H
3	> 59.25"-78"H

OPERATOR SCHEDULE

REQUIRED OPERATOR (1 PER VENT)	VENT WIDTH (W)		VENT OPENING ANGLE	
	4 BAR HINGE	BUTT HINGE	4 BAR HINGE	BUTT HINGE
8" SINGLE ARM E1-1987 LH OR E1-1988 RH WITH LARGE HANDLE CRANK E1-1983	(RESTRICTED) WITH 4 BAR HINGE 25"-26 1/2"W	14 1/8"-22"W	45° ± 5°	90° - 5°
14" SINGLE ARM E1-1989 LH OR E1-1990 RH WITH LARGE HANDLE CRANK E1-1983	(RESTRICTED) WITH 4 BAR HINGE ≥ 33"-38 W	≥ 22"-38W	45° ± 5°	90° - 5°

OUTSWING HARDWARE SCHEDULE

HARDWARE TYPE	OPTION#	DESCRIPTION
LOCK	1	MULTI-POINT BASE LOCK BAR (E1-2001), LOCK EXTENSION BAR (E1-2002). LOCK KEEPERS (4K-18584) LOCATED AT 6.3" FROM BOTTOM OF STILE AND MAX. OF 22.3" THERE AFTER, SECURED WITH (2) #8 X 7/16" PH SMS. ACTUATED BY E1-1966 4" STANDARD HANDLE OR E1-1994 8" EXTENDED HANDLE SECURED TO FRAME JAMB.
HINGE OPTIONS	1	BUTT HINGE (E1-1714/1715), EA. HINGE FASTENED TO FRAME WITH (3) #10-24 X 7/16" PL PH MS AND TO L-ANGLE WITH (3) #10-24 X 7/16" PL PH MS. L-ANGLE SECURED TO VENT WITH (3) #10-24 X 1/2" PL PH SMS. SEE BUTT HINGE SCHEDULE FOR REQUIRED QUANTITIES.
	2	12", 4-BAR HINGE (E1-1957) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS. NOTE: RESTRICTED VENTS WIDTHS
OPERATOR	1	BASED ON VENT WIDTH. AN 8" OR 14" SINGLE ARM OPERATOR IS MOUNTED TO THE FRAME SILL, SECURED WITH (4) #10 X 3/8" PPH SMS

FMPL SYSTEM - ACCESSIBILITY - HARDWARE MATRIX								
YOW 350 TU - CASEMENT IN/OUT SWING WITH E1-1957 12" 4 BAR HINGE or BUTT HINGES								
MINIMUM VENT HEIGHT DIMENSION	MAX. VENT WEIGHT RANGE			LOCK POINTS				
	4 BAR HINGE (per pair)	BUTT HINGE (58# CAPACITY)		BASE BAR	BASE BAR PART NUMBER	EXTENSION BAR	EXTENSION BAR PART NUMBER	NUMBER OF LOCK POINTS
17.25" - 23.24"	155# [70.3 Kg]	116# [52.6 Kg]	-	12"	E1-2001-0100	NONE		2
23.25" - 29.24"	155# [70.3 Kg]	116# [52.6 Kg]	-	12"	E1-2001-0100	6"	E1-2002-0006	3
29.25" - 35.24"	155# [70.3 Kg]	116# [52.6 Kg]	-	24"	E1-2001-0200	NONE		2
35.25" - 41.24"	155# [70.3 Kg]	116# [52.6 Kg]	-	24"	E1-2001-0200	6"	E1-2002-0006	3
41.25" - 47.24"	155# [70.3 Kg]	116# [52.6 Kg]	-	36"	E1-2001-0300	NONE		3
47.25" - 53.24"	155# [70.3 Kg]	116# [52.6 Kg]	-	36"	E1-2001-0300	6"	E1-2002-0006	4
53.25" - 59.24"	155# [70.3 Kg]	116# [52.6 Kg]	-	48"	E1-2001-0400	NONE		3
59.25" - 65.24"	155# [70.3 Kg]	-	174# [78.9 Kg]	48"	E1-2001-0400	6"	E1-2002-0006	4
65.25" - 72.24"	155# [70.3 Kg]	-	174# [78.9 Kg]	48"	E1-2001-0400	12"	E1-2002-0100	4
72.25" - 75.24"	155# [70.3 Kg]	-	174# [78.9 Kg]	48"	E1-2001-0400	18"	E1-2002-0106	4
75.25" - 78"	155# [70.3 Kg]	-	174# [78.9 Kg]	48"	E1-2001-0400	22"	E1-2002-0110	4



YKK AP America Inc.
1229 HWY 441 BYPASS
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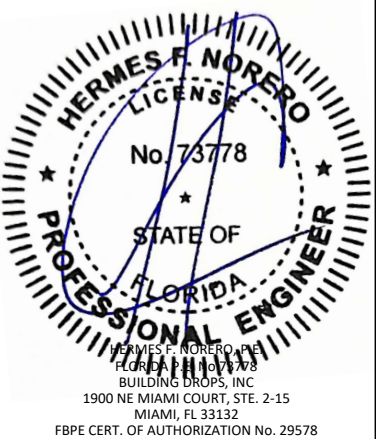
TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)
APPROVED SIZES &
HARDWARE SCHEDULES

PREPARED BY:
BUILDING DROPS, INC.
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REMARKS	BY	DATE
2023 FBC CODE UPDATE	MS	05.05.23
MISC. UPDATE	SH	02.26.24

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FL #:
FL16312

DATE: **8.24.15**

DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

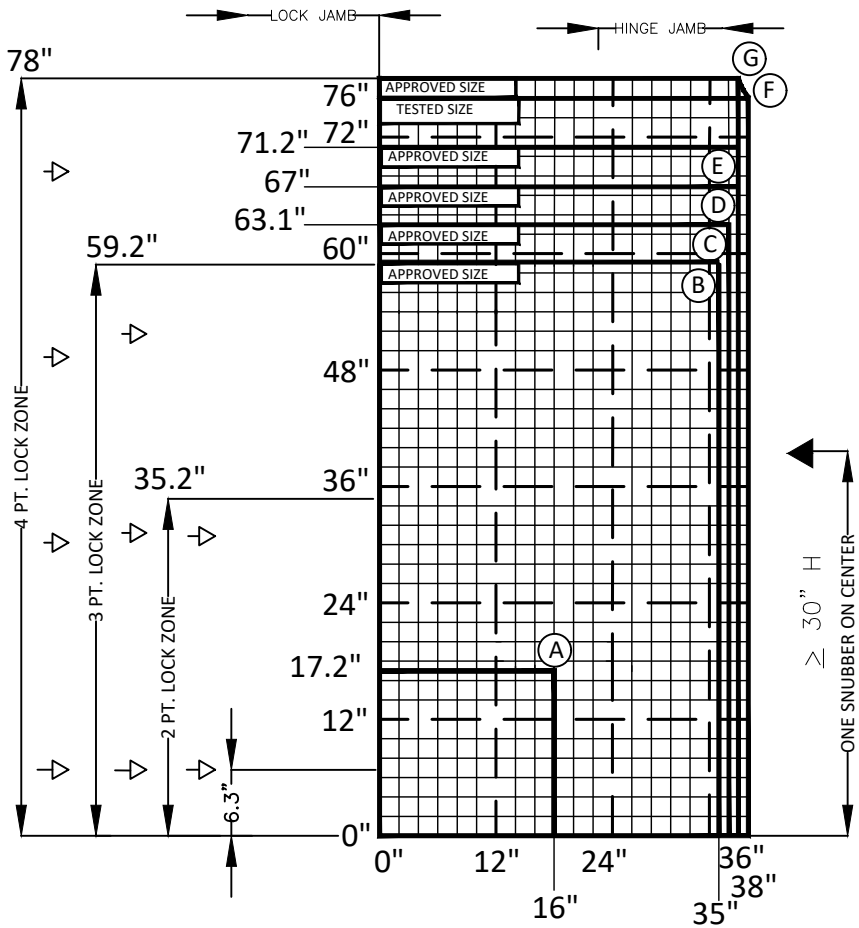
DWG. #: **YKK150**

SHEET:

5

ACCESSIBLE WINDOW SYSTEM - (AAMA 513-14)

APPROVED VENT SIZES
CASEMENT INSWING (ACCESSIBLE HARDWARE)



APPROVED VENT SIZES
DESIGN LOADS LIMIT APPROVED MAX
SIZE

APPROVED VENT SIZE RANGES BASED ON 45 PSF					
	VENT SIZE	VENT SQUARE FEET	ALLOWABLE DESIGN PRESSURE	VENT WEIGHT @ 7.2 Lbs. PER SQ. FT.	ROTATIONAL LOAD (REQ'D FOR 4 BAR HINGE ONLY) USING 1" IG (1/4" X 1/4")
A	MINIMUM SIZE: (4 BAR HINGE ONLY) 16"[406.4] X 17 1/4"[438.2]	1.9	65	13.8	6.4 Lbs.
B	35"[889.0] X 59 1/4"[1505]	14.3	65	103.7	30.6
C	36"[914.4] X 63 1/8"[1603.4]	15.7	60	113.6	32.4
D	37"[939.8] X 67"[1701.8]	17.2	55	124.0	34.2
E	37 1/2"[952.5] X 71 1/4"[1809.8]	18.6	50	134.0	35.2
F	TESTED SIZE: 38"[965.2] X 76"[1930.4]	20.1	45	144.0	36.1
G	MAXIMUM SIZE: 37"[939.8] X 78"[1981.2]	20.1	45	144.0	34.2

LOCK-POINT SCHEDULE

NUMBER OF REQUIRED LOCK ENGAGEMENTS	VENT HEIGHT (H)
2	≥ 17.2"-35.2"H
3	≥ 35.25"-59.2"H
4	≥ 59.25"-78"H

SNUBBER SCHEDULE

NUMBER OF REQUIRED SNUBBERS AT HINGE JAMB	VENT HEIGHT (H)
1	≥ 30" H

INSWING HARDWARE SCHEDULE

HARDWARE TYPE	OPTION#	DESCRIPTION
LOCK	1	MULTI-POINT BASE LOCK BAR (E1-2001), LOCK EXTENSION BAR (E1-2002). LOCK KEEPERS (4K-18584) LOCATED AT 6.3" FROM BOTTOM OF VENT AND MAX. OF 22.3" THERE AFTER, SECURED WITH (2) #8 X 7/16" PH SMS. ACTUATED BY H-1906(LH) OR H-1907(RH) EXTENDED LOCK HANDLE SECURED TO VENT STILE.
HINGE OPTIONS	1	12", 4-BAR HINGE (E1-1957) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS.

VMPL SYSTEM - ACCESSIBILITY - HARDWARE MATRIX						
YOW 350 TU - CASEMENT INSWING WITH E1-1957 12" 4 BAR HINGE						
MINIMUM VENT HEIGHT DIMENSION	MAX. VENT WEIGHT RANGE	LOCK POINTS				
	4 BAR HINGE (per pair)	BASE BAR	BASE BAR PART NUMBER	EXTENSION BAR	EXTENSION BAR PART NUMBER	NUMBER OF LOCK POINTS
17.25" - 23.24"	155# [70.3 Kg]	12"	E1-2001-0100	NONE		2
23.25" - 29.24"	155# [70.3 Kg]	12"	E1-2001-0100	6"	E1-2002-0006	3
29.25" - 35.24"	155# [70.3 Kg]	24"	E1-2001-0200	NONE		2
35.25" - 41.24"	155# [70.3 Kg]	24"	E1-2001-0200	6"	E1-2002-0006	3
41.25" - 47.24"	155# [70.3 Kg]	36"	E1-2001-0300	NONE		3
47.25" - 53.24"	155# [70.3 Kg]	36"	E1-2001-0300	6"	E1-2002-0006	4
53.25" - 59.24"	155# [70.3 Kg]	48"	E1-2001-0400	NONE		3
59.25" - 65.24"	155# [70.3 Kg]	48"	E1-2001-0400	6"	E1-2002-0006	4
65.25" - 72.24"	155# [70.3 Kg]	48"	E1-2001-0400	12"	E1-2002-0100	4
72.25" - 75.24"	155# [70.3 Kg]	48"	E1-2001-0400	18"	E1-2002-0106	4
75.25" - 78"	155# [70.3 Kg]	48"	E1-2001-0400	22"	E1-2002-0110	4



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1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
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TITLE:
YOW 350 TU THERMAL ALUMINUM CASEMENT WINDOW (NON-HVHZ) (NON-IMPACT) APPROVED SIZES & HARDWARE SCHEDULES

PREPARED BY:
BUILDING DROPS, INC.
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FL #: **FL16312**

DATE: **8.24.15**

DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

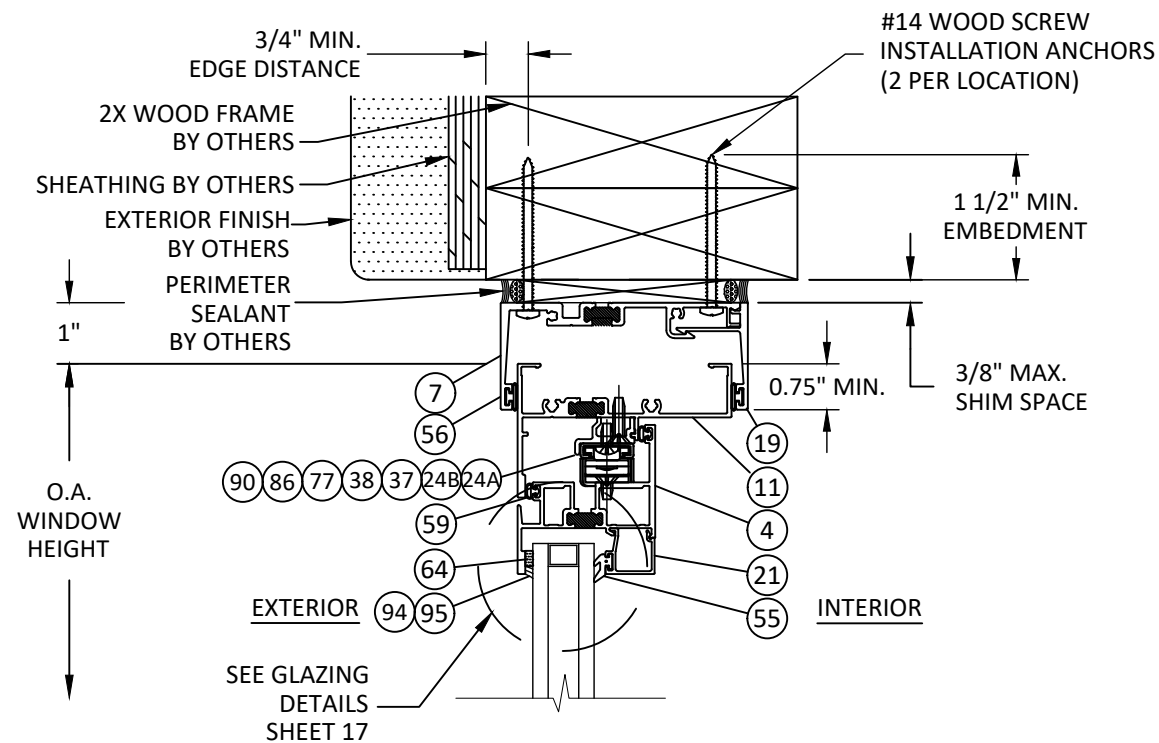
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SHEET: **6**

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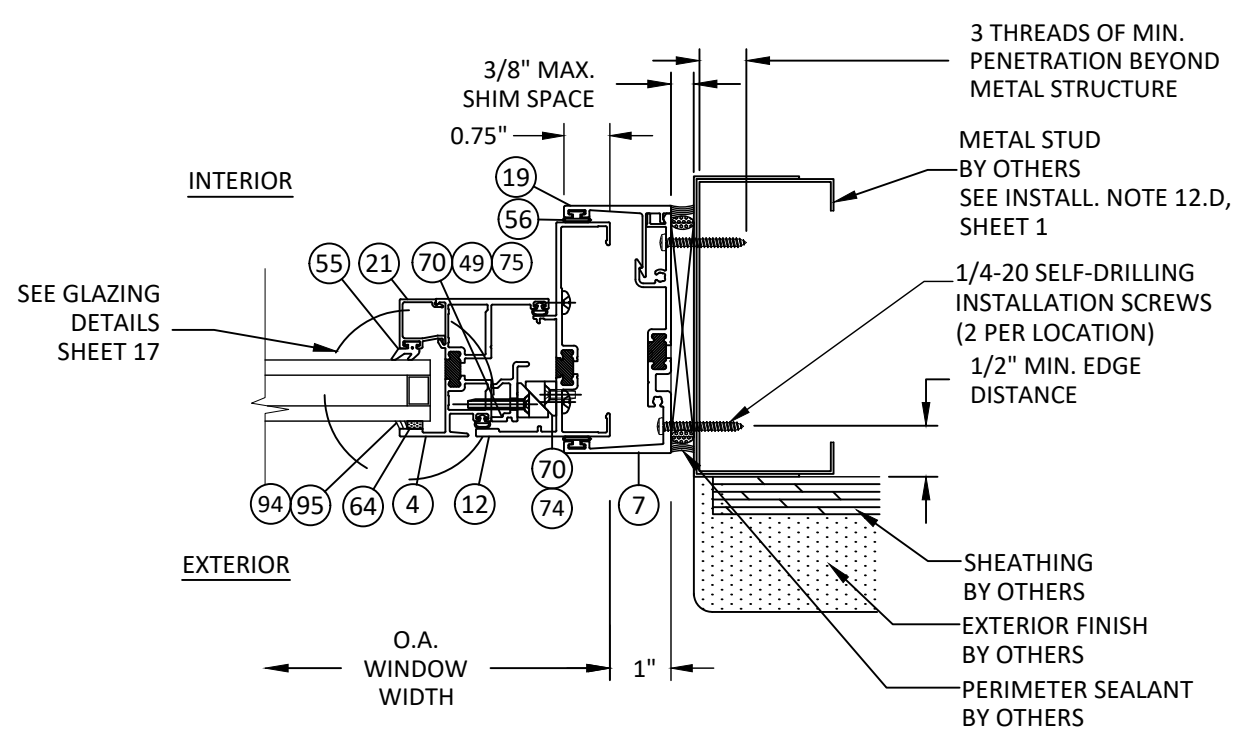
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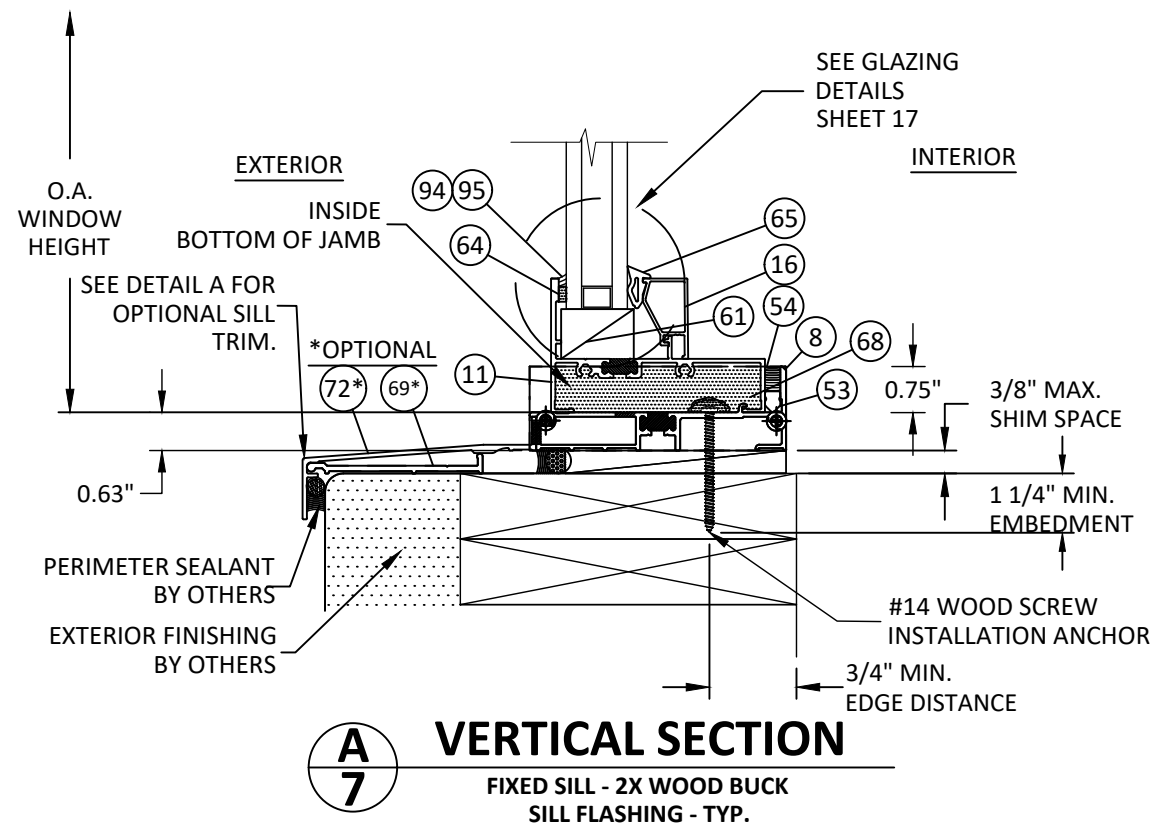


B
7 **VERTICAL SECTION**
INSWING VENT HEAD - 2X WOOD FRAME
INT. SET RECEPTOR - TYP.

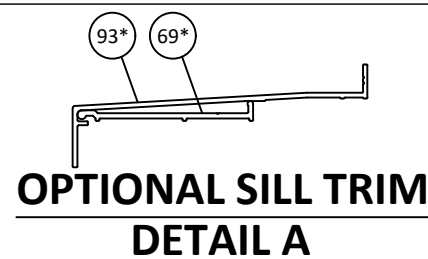
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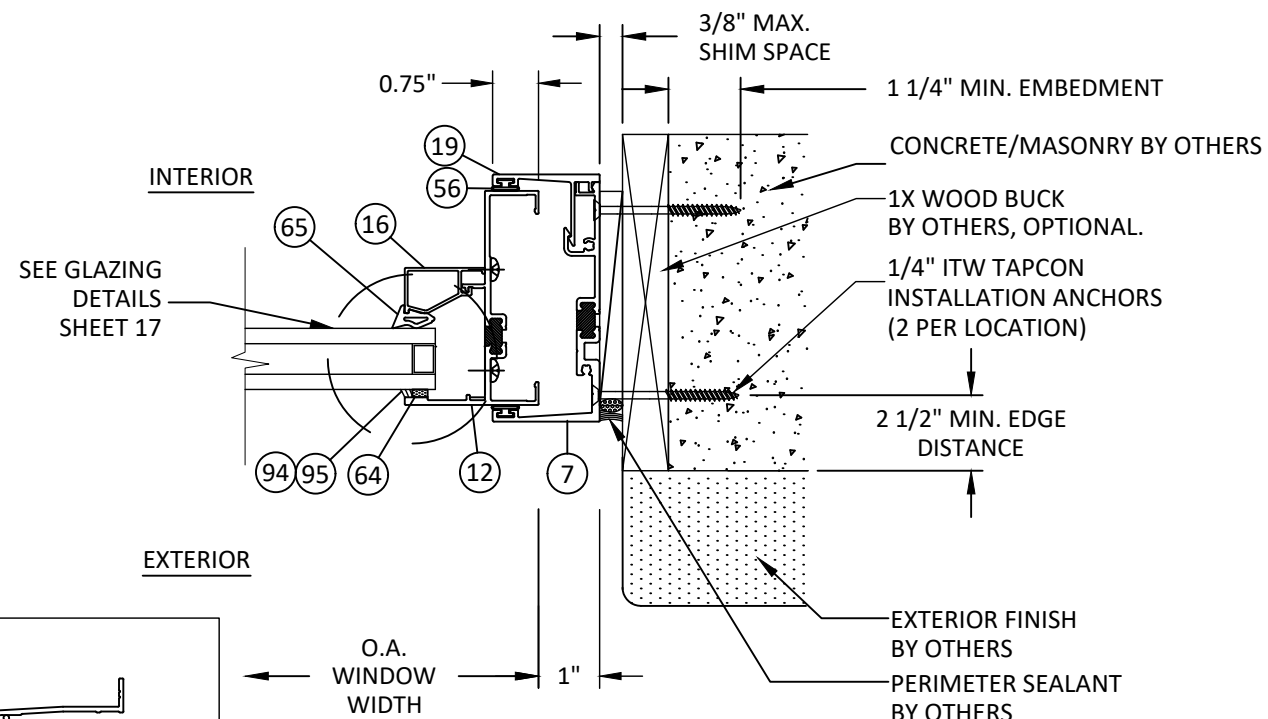
C
7 **HORIZONTAL SECTION**
INSWING VENT HINGE JAMB - METAL STUD
INT. SET RECEPTOR - TYP.



A
7 **VERTICAL SECTION**
FIXED SILL - 2X WOOD BUCK
SILL FLASHING - TYP.



**OPTIONAL SILL TRIM
DETAIL A**



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



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DUBLIN, GEORGIA 31021
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TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)

RECEPTOR INSTALLATION DETAILS

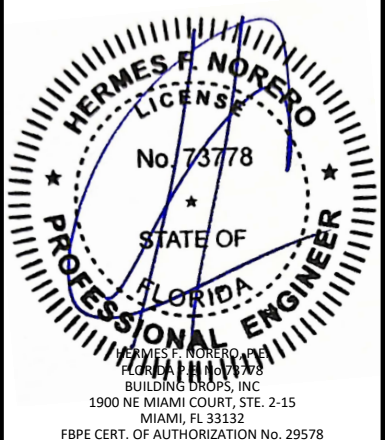
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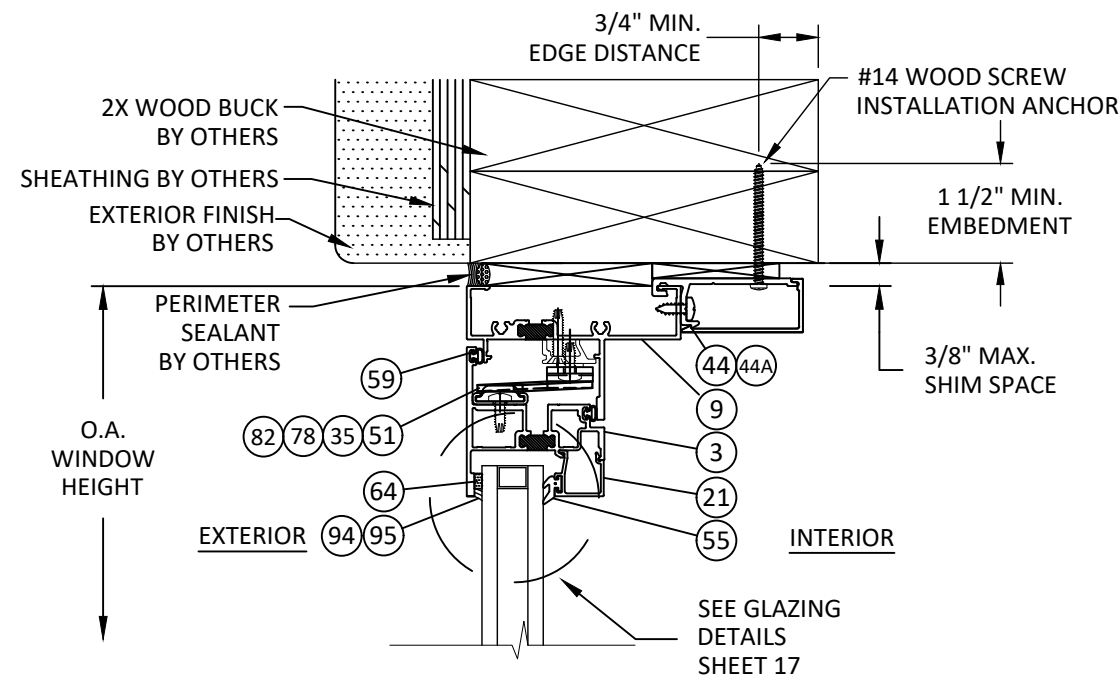
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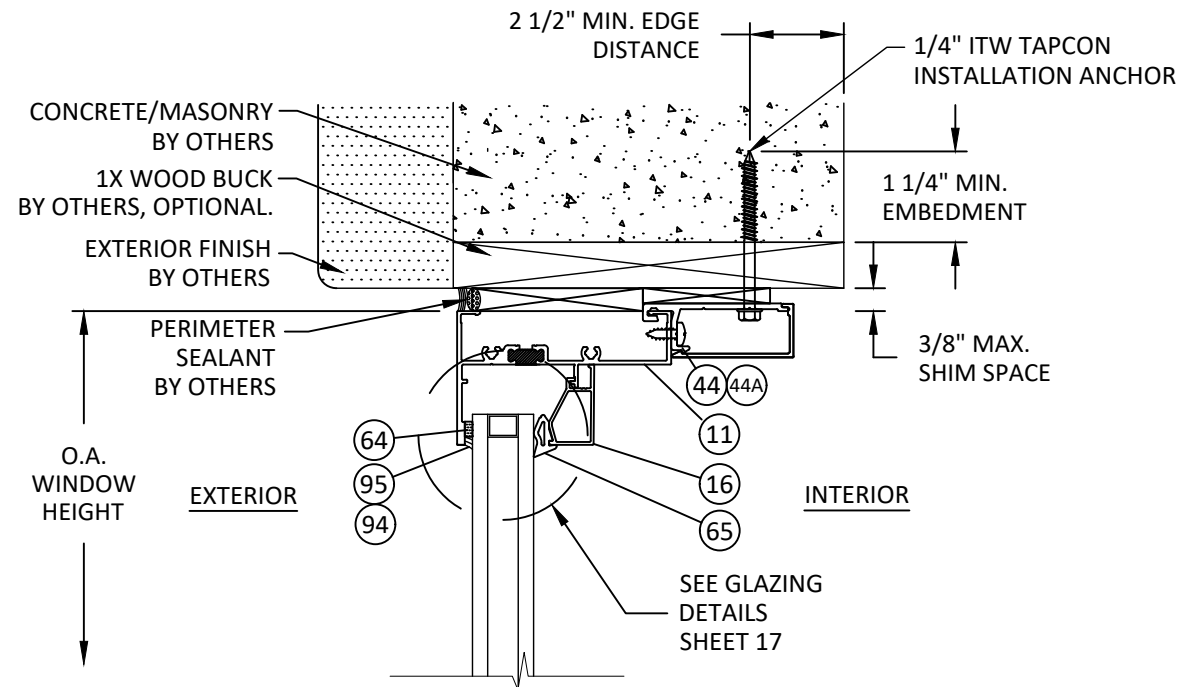
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DATE:	8.24.15
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK150
SHEET:	7

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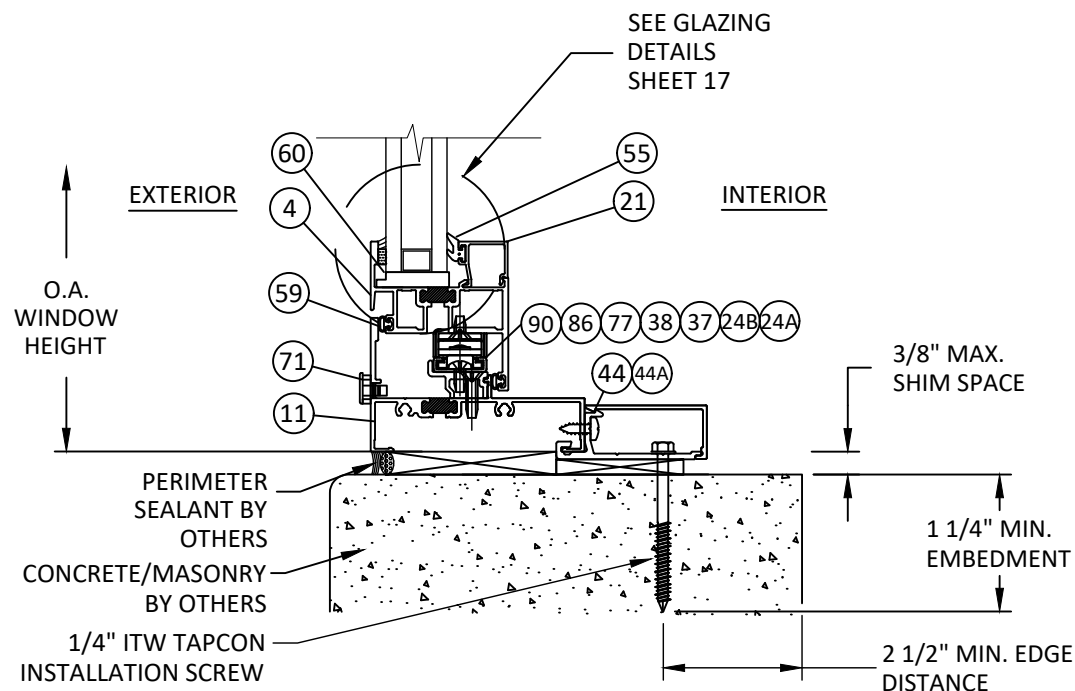


G
8 VERTICAL SECTION
OUTSWING VENT HEAD - 2X WOOD FRAME
CLIP ANCHOR - TYP.

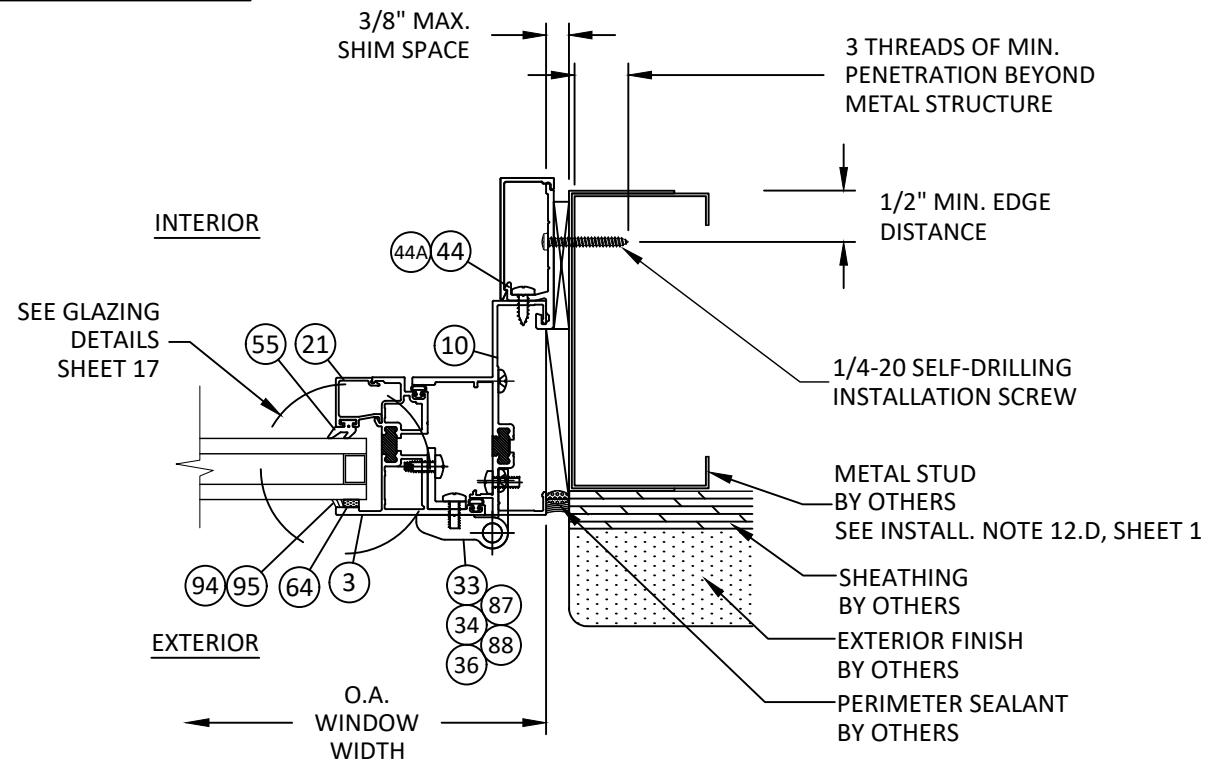


H
8 VERTICAL SECTION
FIXED HEAD - 1X/CONCRETE/MASONRY
CLIP ANCHOR - TYP.

NOTE: INSWING AND OUTSWING
SECTIONS ARE SHOWN HEREIN,
METHODS OF INSTALLATION ARE
SIMILAR AND INTERCHANGEABLE FOR
EACH OPERATION TYPE.



F
8 VERTICAL SECTION
INSWING VENT SILL - CONCRETE/MASONRY
CLIP ANCHOR - TYP.



I
8 HORIZONTAL SECTION
OUTSWING VENT HINGE JAMB - METAL STUD
CLIP ANCHOR - TYP.



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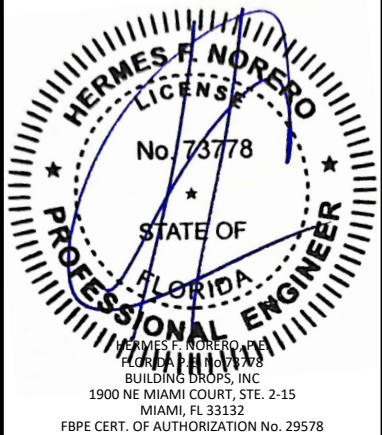
TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)
CLIP INSTALLATION DETAILS

PREPARED BY:
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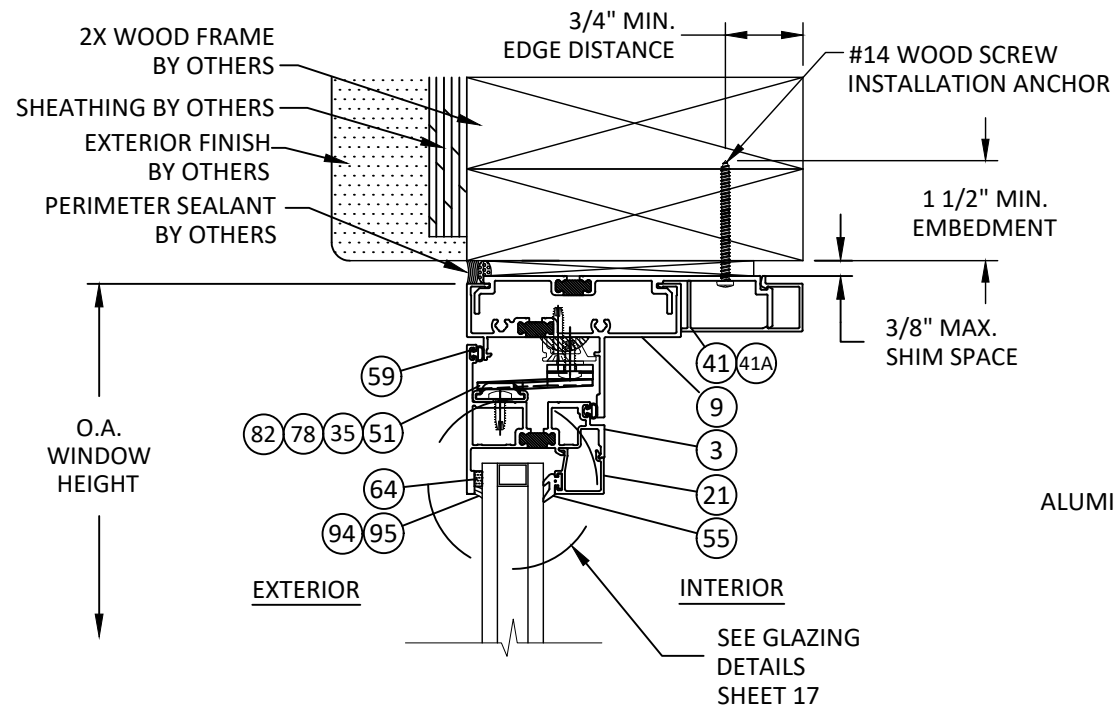
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FL #:	FL16312
DATE:	8.24.15
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK150
SHEET:	8

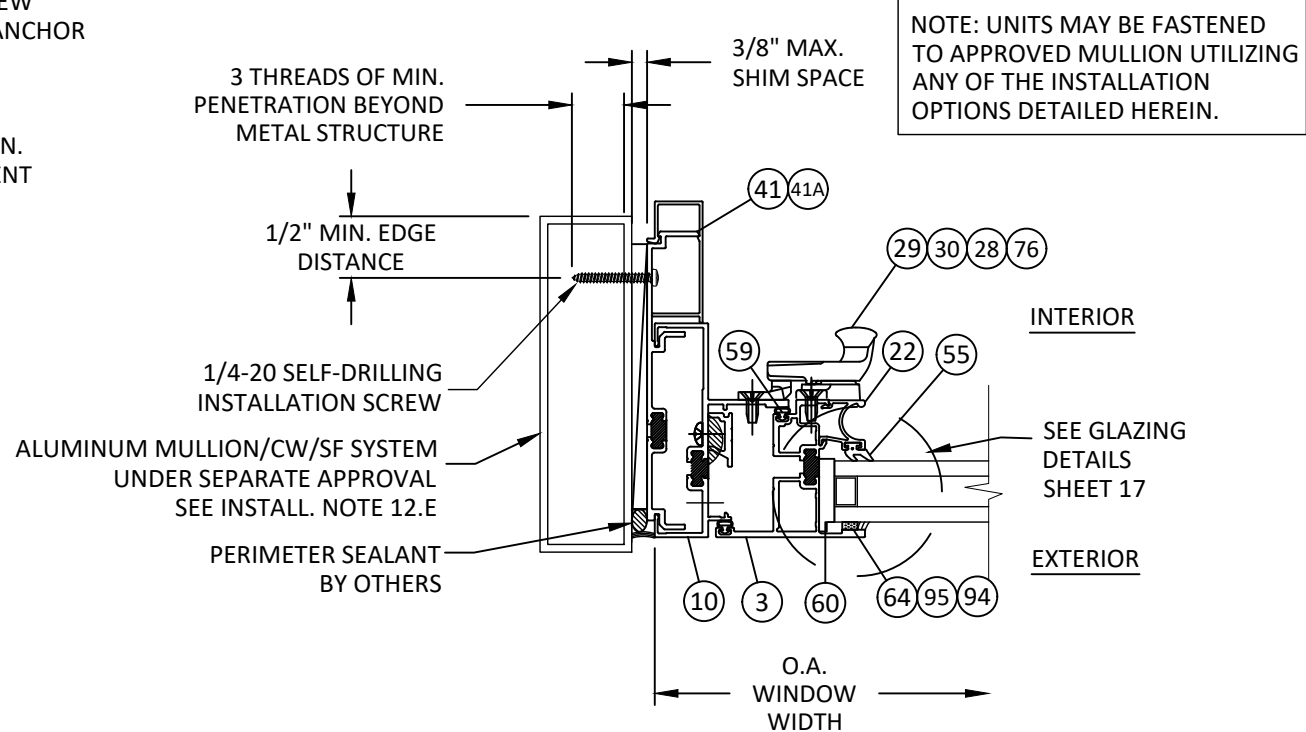
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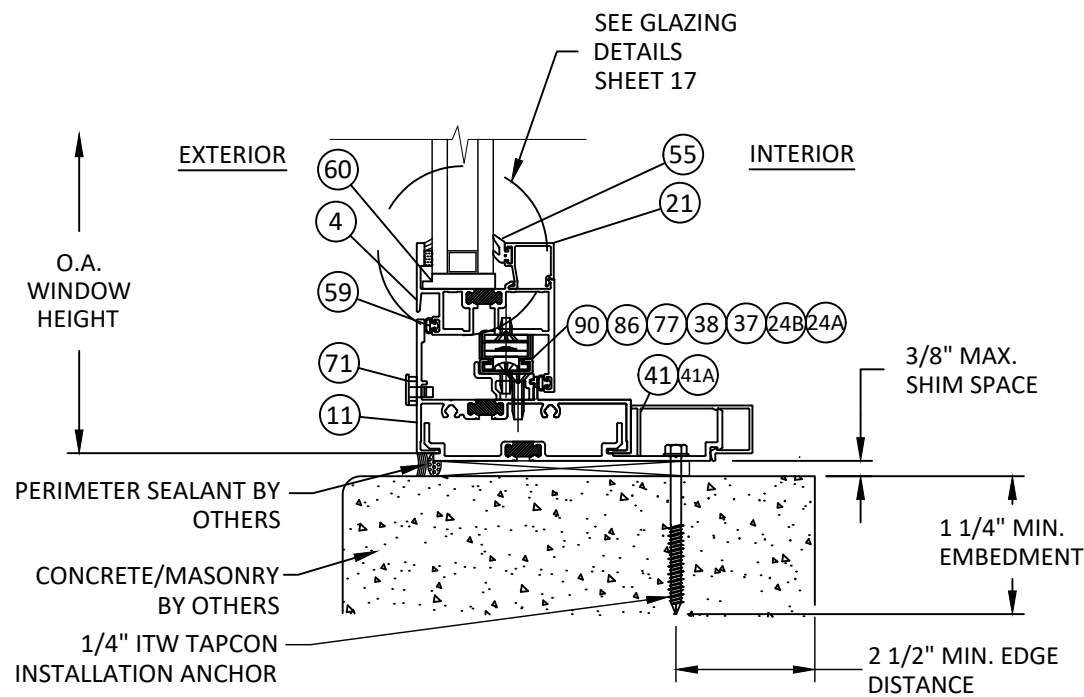


K
9 **VERTICAL SECTION**
OUTSWING VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP.

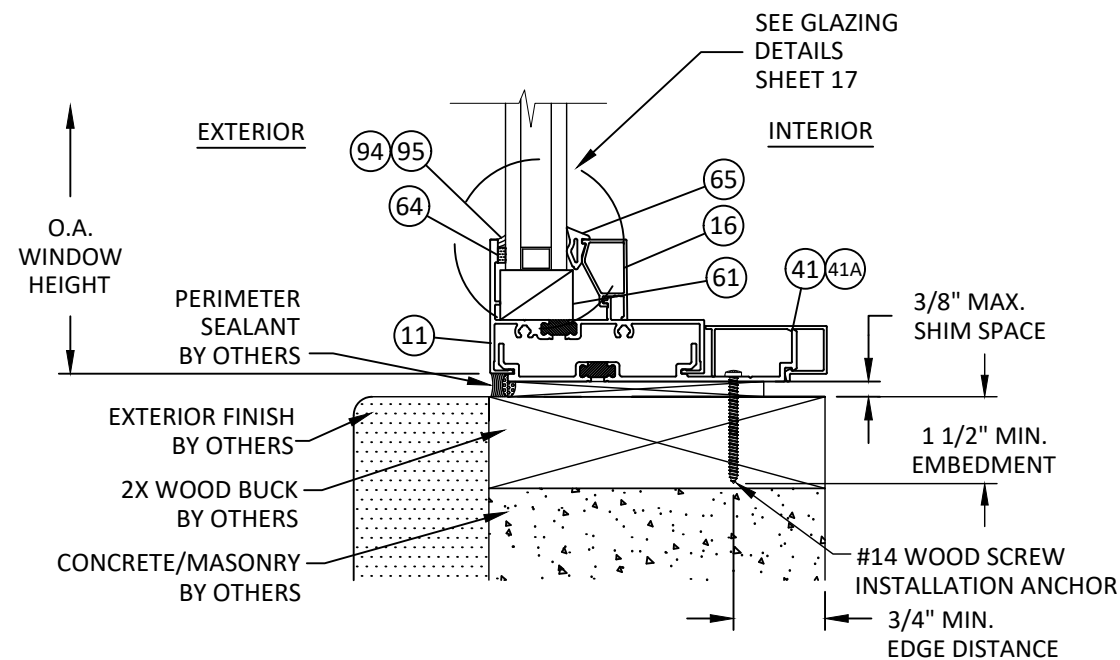
NOTE: INSWING AND OUTSWING SECTIONS ARE SHOWN HEREIN, METHODS OF INSTALLATION ARE SIMILAR AND INTERCHANGEABLE FOR EACH OPERATION TYPE.



L
9 **HORIZONTAL SECTION**
OUTSWING VENT LOCK JAMB - MULL TUBE
STRAP ANCHOR - TYP.



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



M
9 **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

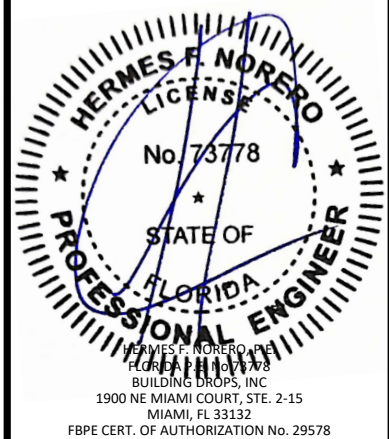
TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)
STRAP INSTALLATION DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-9478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2023 FBC CODE UPDATE	MS	05.05.23
MISC. UPDATE	SH	02.26.24

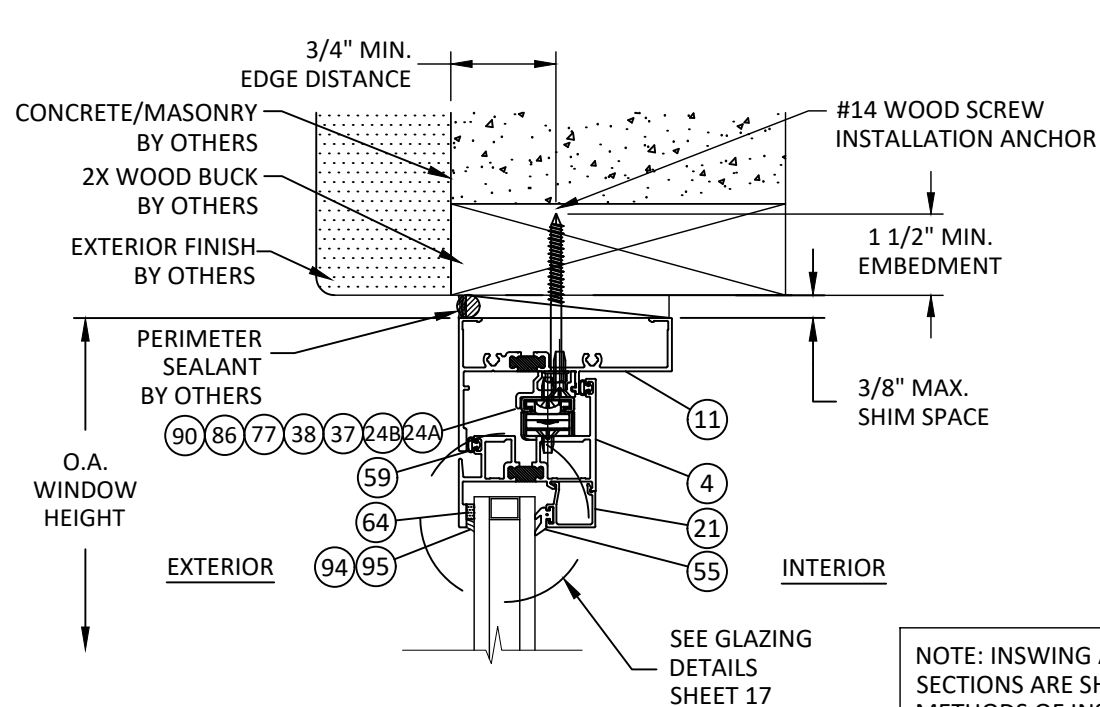
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	FL16312
DATE:	8.24.15
DWG. BY:	CHK. BY:
SM	HFN
SCALE:	NTS
DWG. #:	YKK150
SHEET:	9

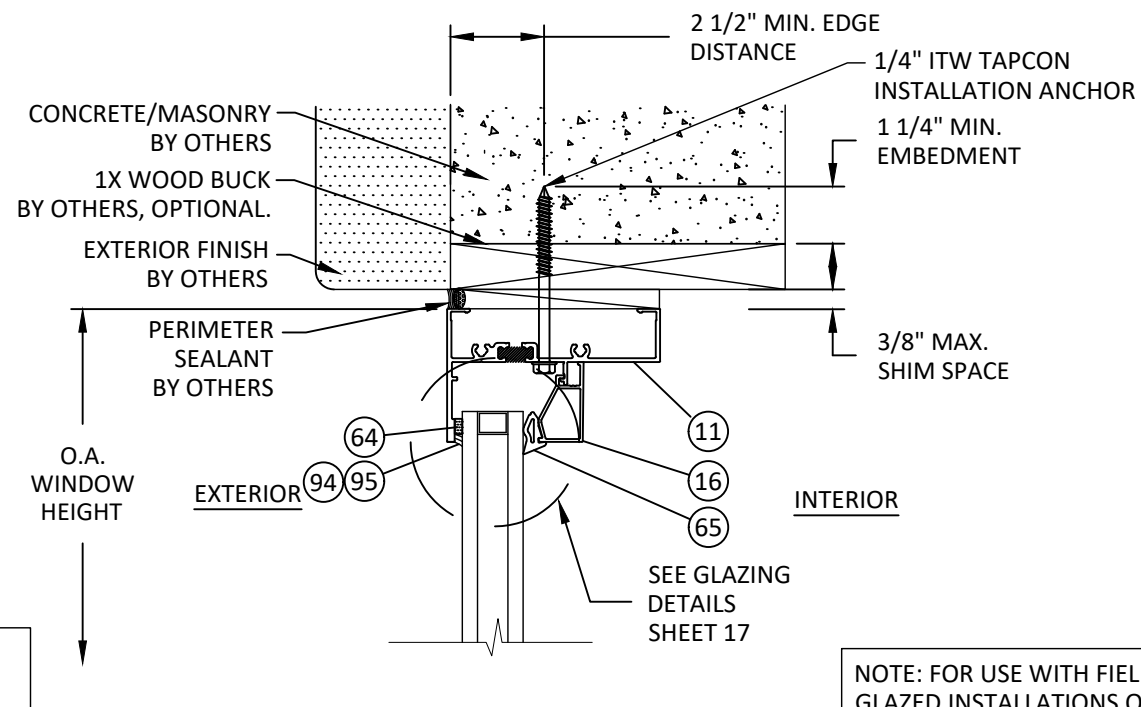
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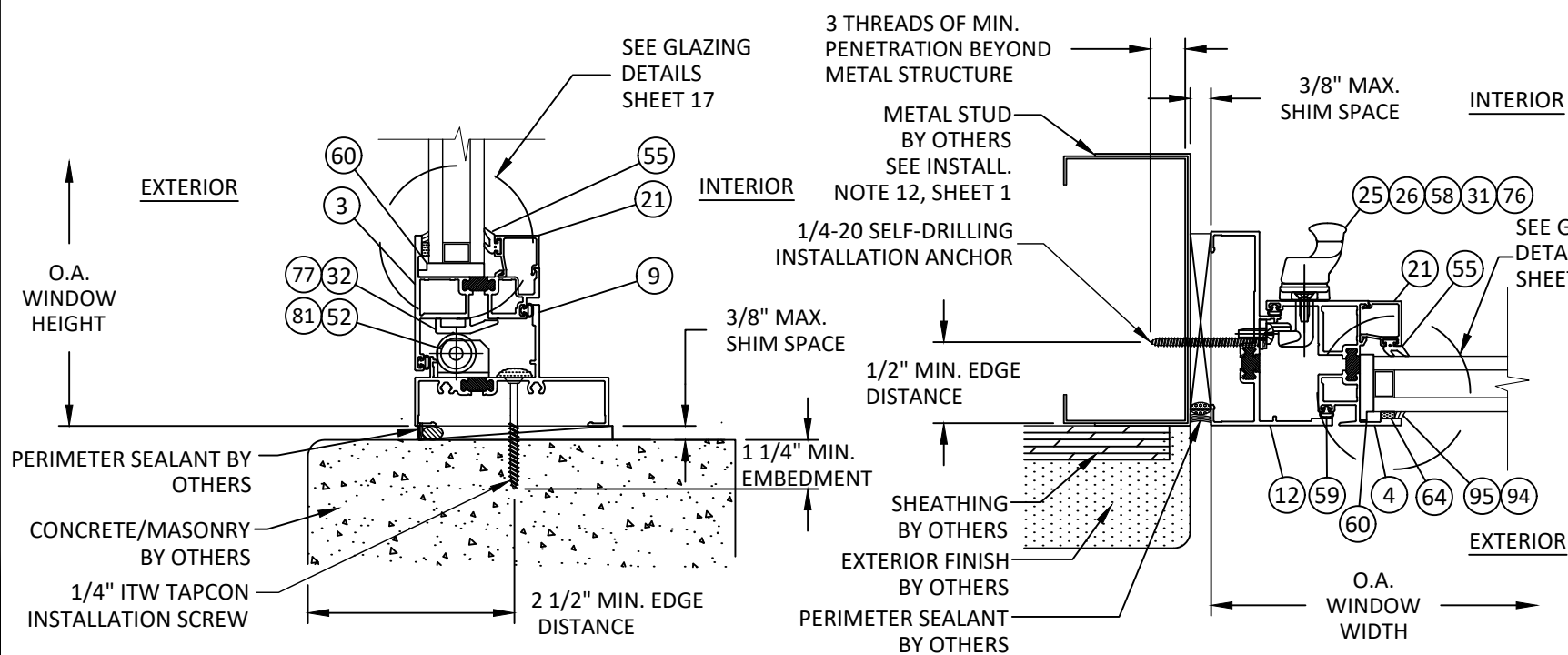
O10 VERTICAL SECTION
INSWING VENT HEAD - 2X WOOD BUCK
THROUGH FRAME - TYP.

NOTE: INSWING AND OUTSWING
SECTIONS ARE SHOWN HEREIN,
METHODS OF INSTALLATION ARE
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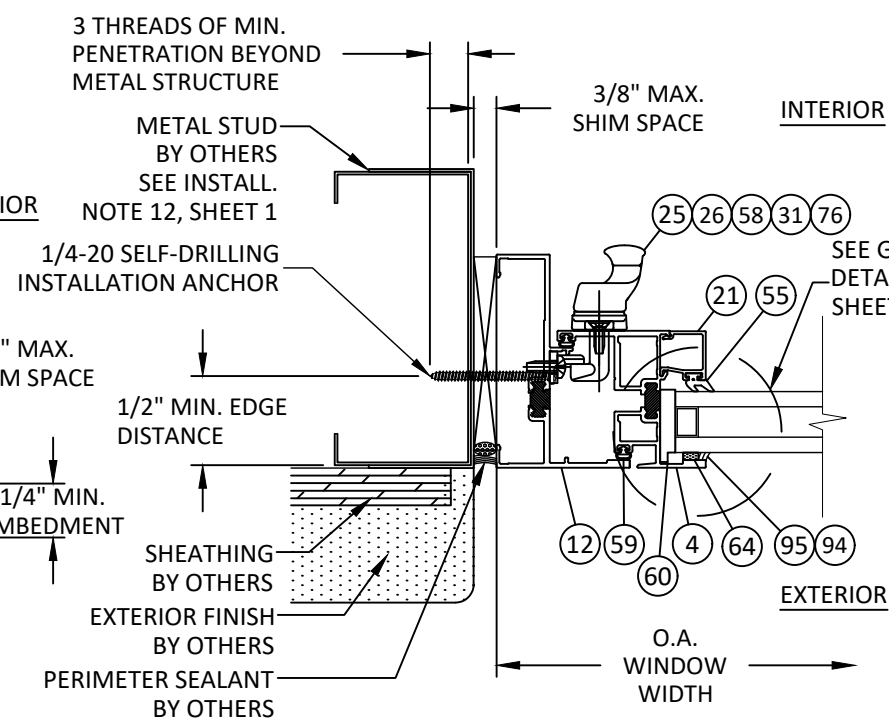


P10 VERTICAL SECTION
FIXED HEAD - 1X/CONCRETE/MASONRY
THROUGH FRAME - TYP.

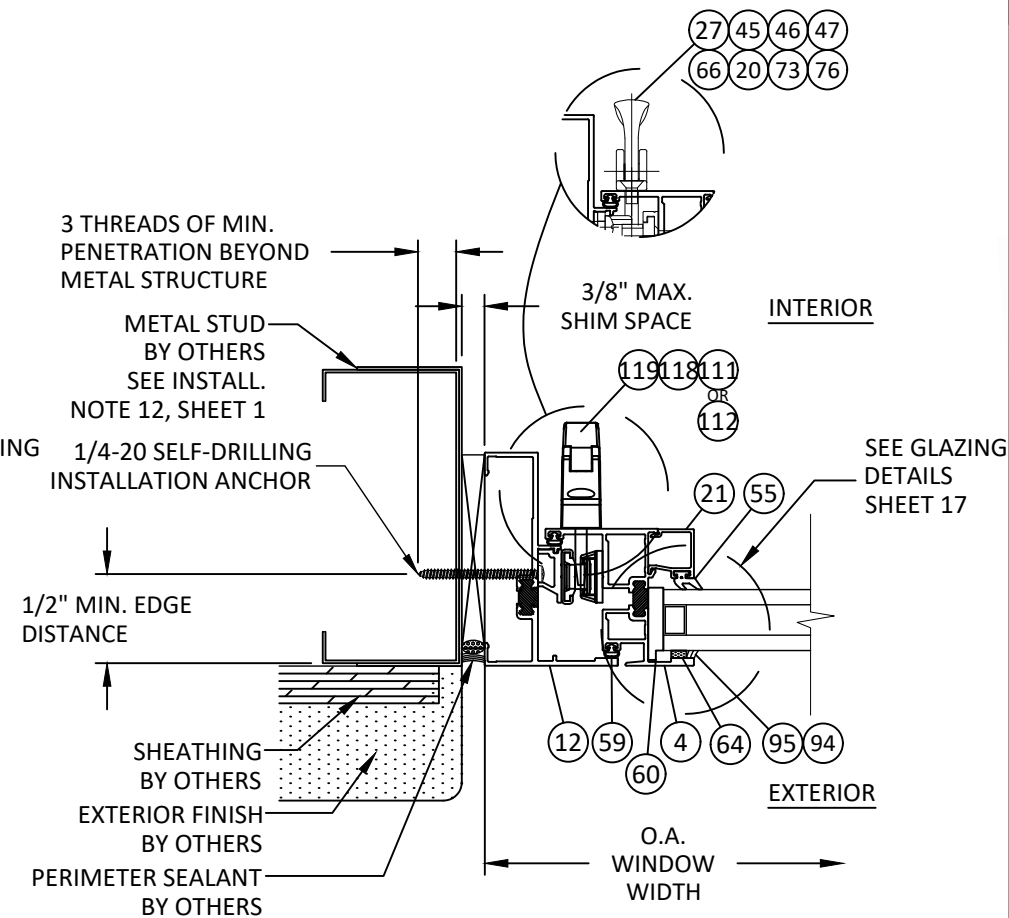
NOTE: FOR USE WITH FIELD
GLAZED INSTALLATIONS ONLY.



N10 VERTICAL SECTION
OUTSWING VENT SILL - CONCRETE/MASONRY
THROUGH FRAME - TYP.



Q10 HORIZONTAL SECTION
INSWING VENT LOCK JAMB - METAL STUD
THROUGH FRAME - TYP.



Q110 HORIZONTAL SECTION
INSWING VENT LOCK JAMB - METAL STUD
THROUGH FRAME - TYP.



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1229 HWY 441 BYPASS
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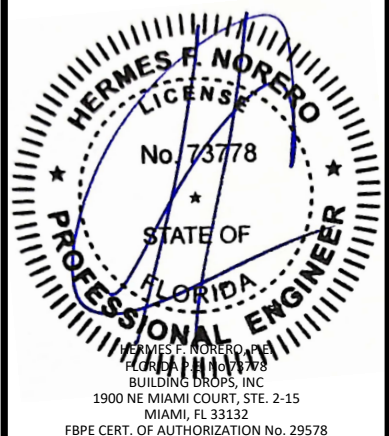
TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)
THROUGH FRAME
INSTALLATION DETAILS

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MIAMI, FL 33132
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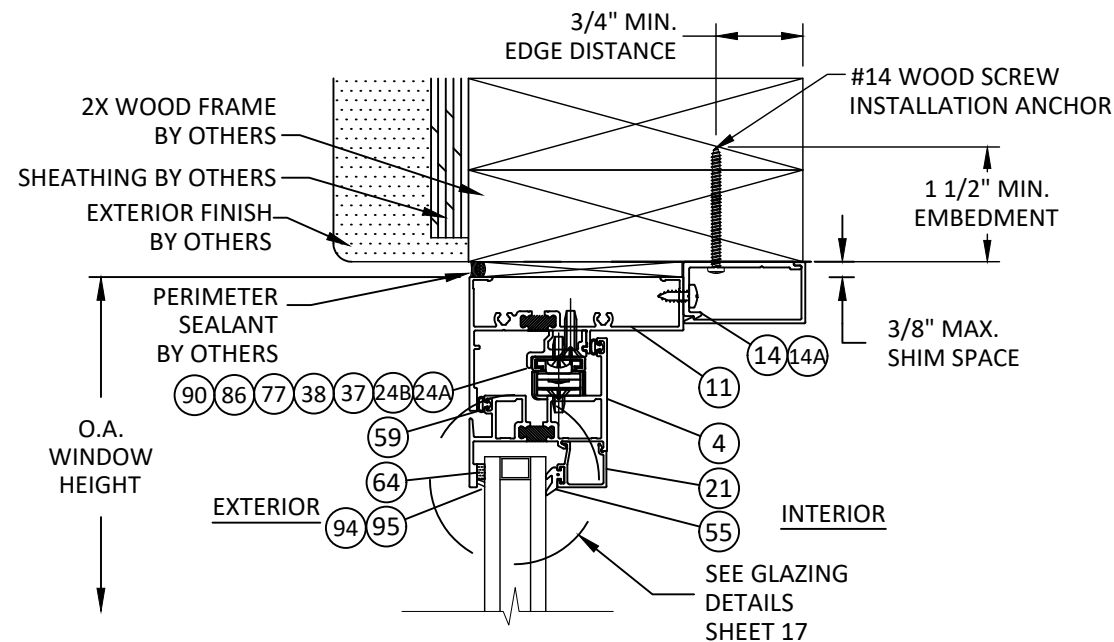
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SCALE:	NTS
DWG. #:	YKK150
SHEET:	10

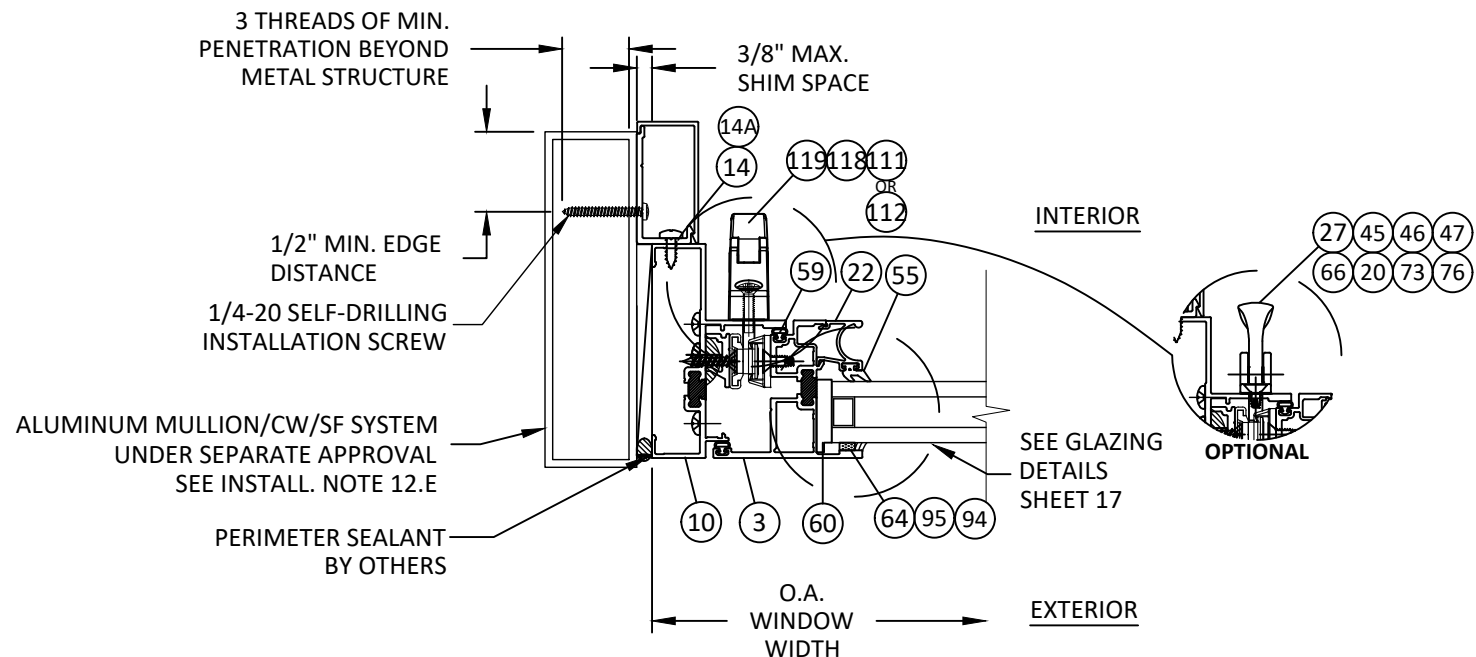
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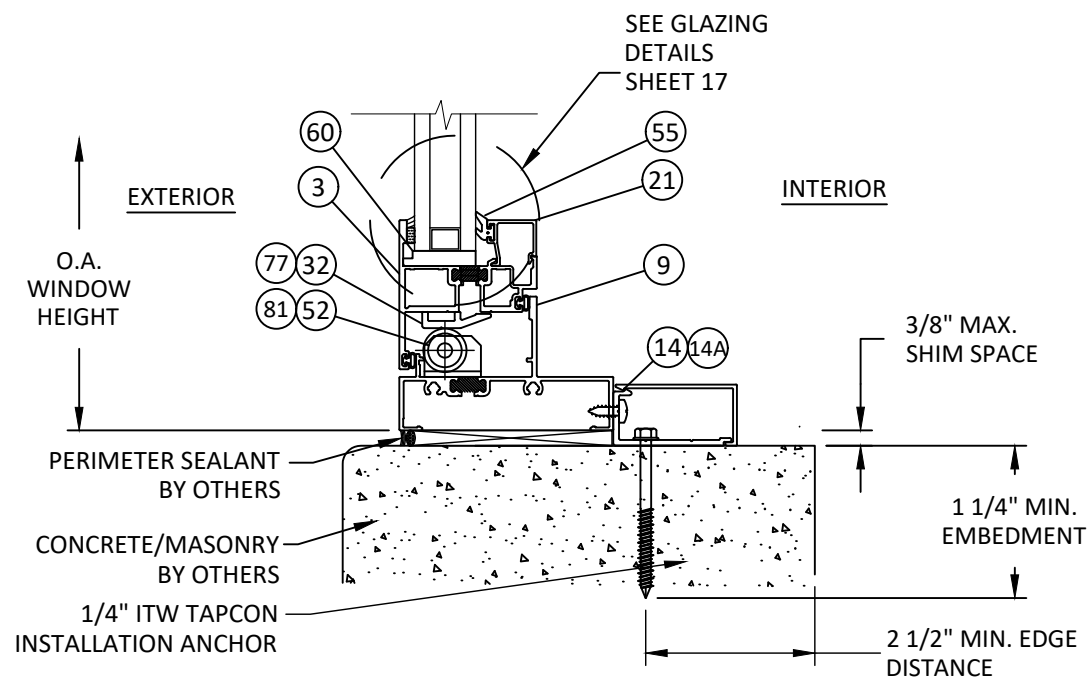


S
11 **VERTICAL SECTION**
11 INSWING VENT HEAD - 2X WOOD FRAME TRIM CLIP ANCHOR - TYP.

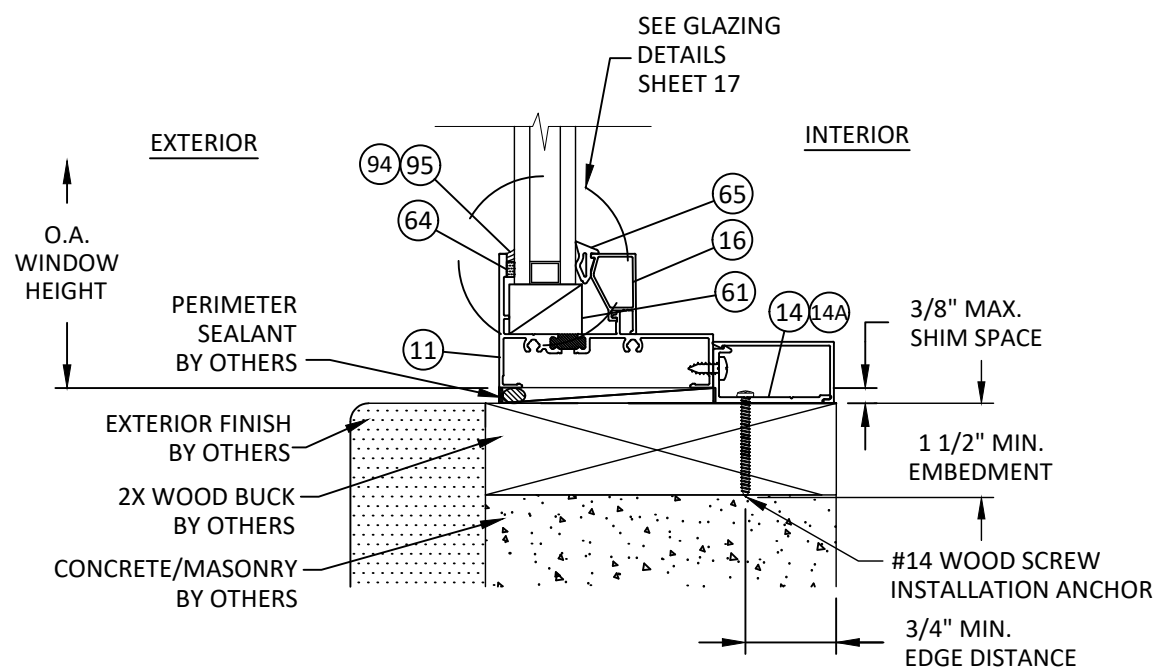
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T
11 **HORIZONTAL SECTION**
11 OUTSWING VENT LOCK JAMB - MULL TUBE TRIM CLIP ANCHOR - TYP. STANDARD



R
11 **VERTICAL SECTION**
11 OUTSWING VENT SILL - CONCRETE/MASONRY TRIM CLIP ANCHOR - TYP.



U
11 **VERTICAL SECTION**
11 FIXED SILL - 2X WOOD BUCK TRIM CLIP ANCHOR - TYP.



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DUBLIN, GEORGIA 31021
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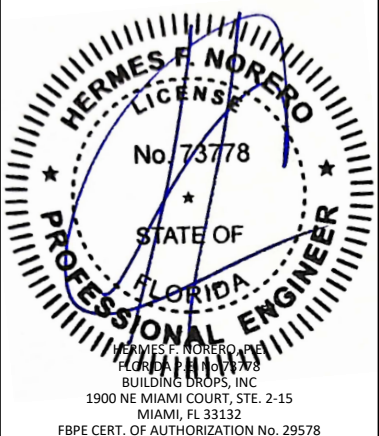
TITLE:
YOW 350 TU THERMAL ALUMINUM CASEMENT WINDOW (NON-HVHZ) (NON-IMPACT)
TRIM CLIP INSTALLATION DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-9478
FAX: (954)744-4738
WEB: www.buildingdrops.com



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DATE: **8.24.15**

DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

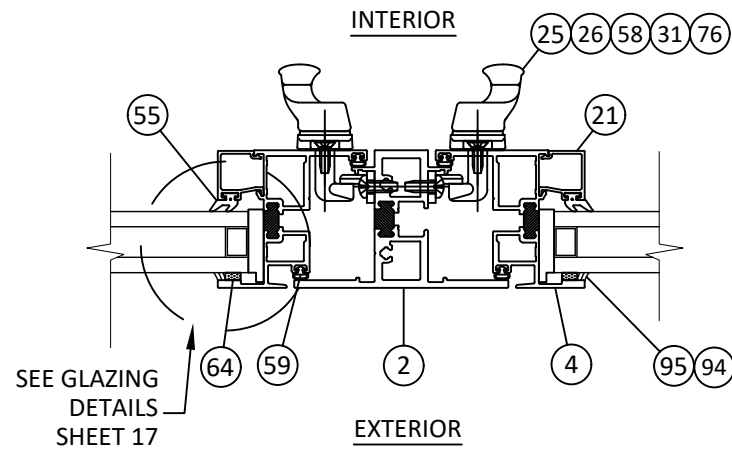
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SHEET:

11

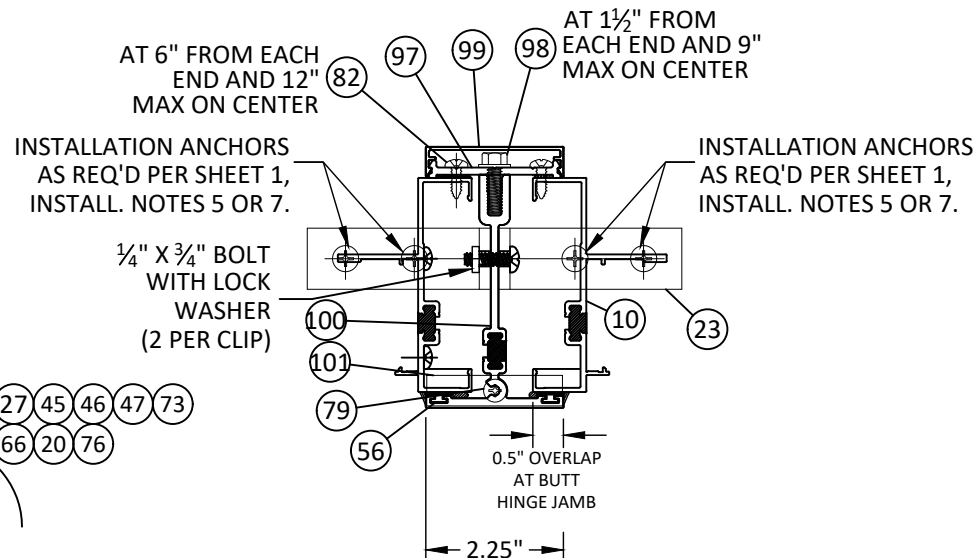
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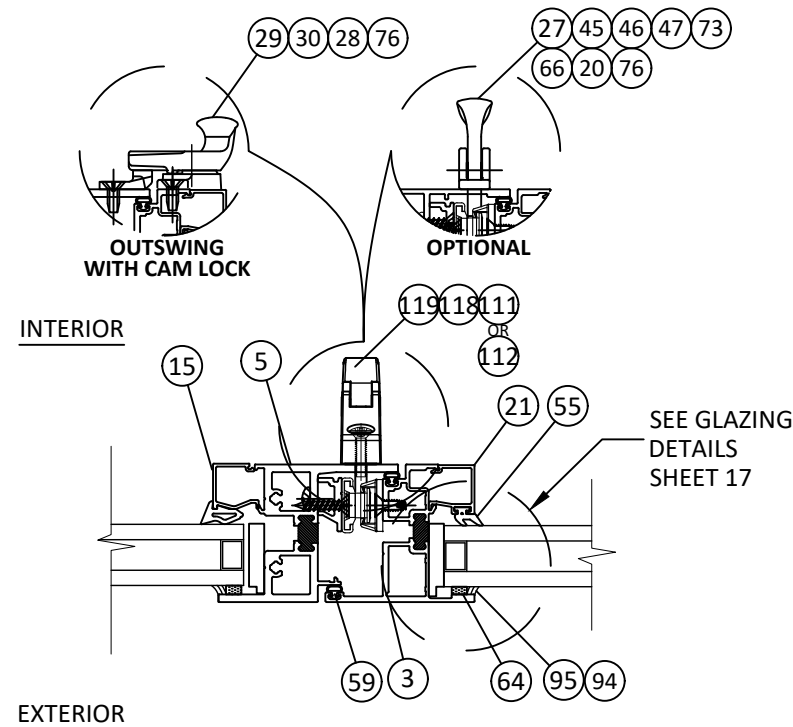


W12 HORIZONTAL SECTION
INSWING INTEGRAL MULLION

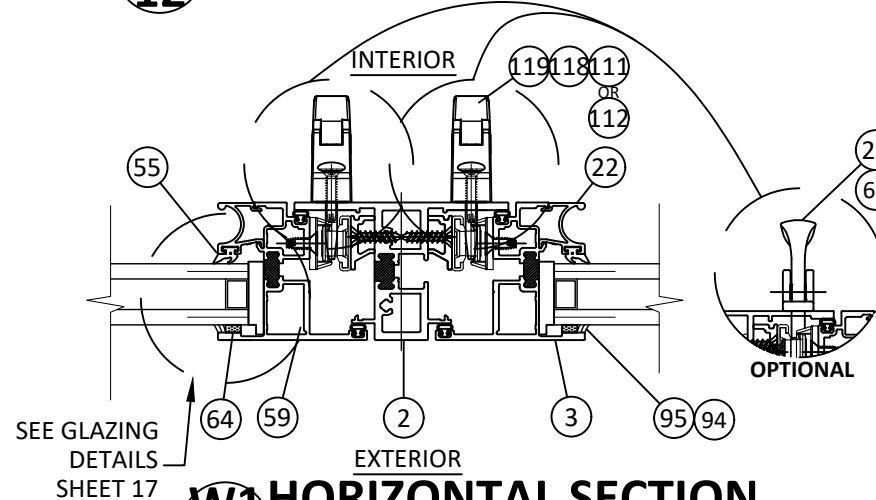
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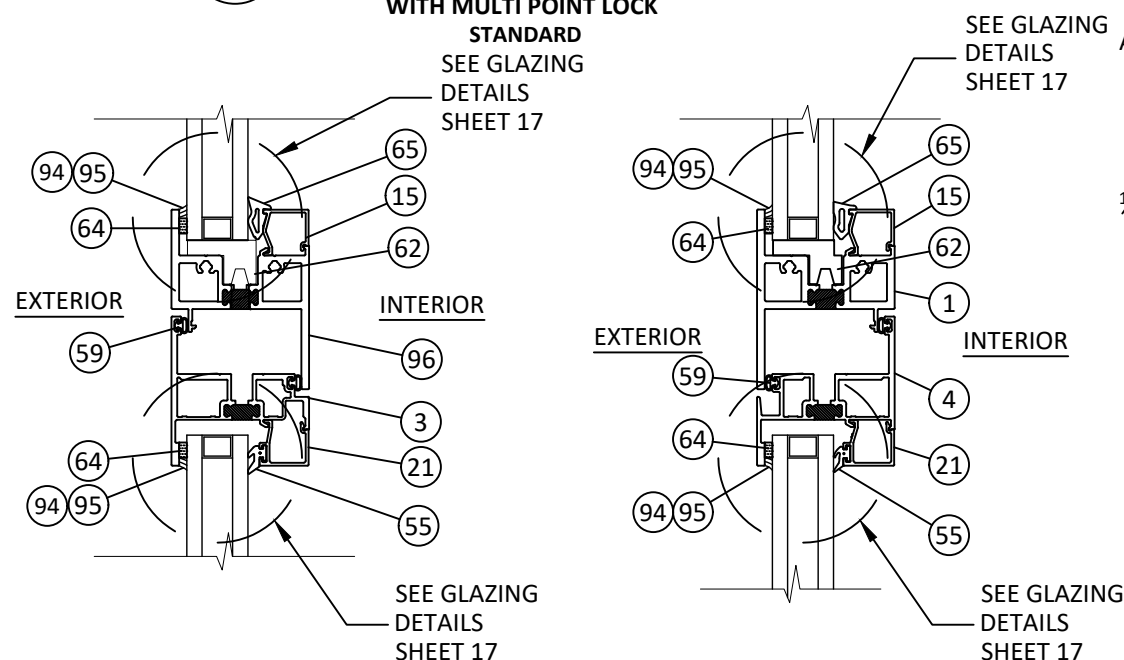
Z12 HORIZONTAL SECTION
STACK MULLION - TYP.
INSTALL TO WOOD/METAL FRAME



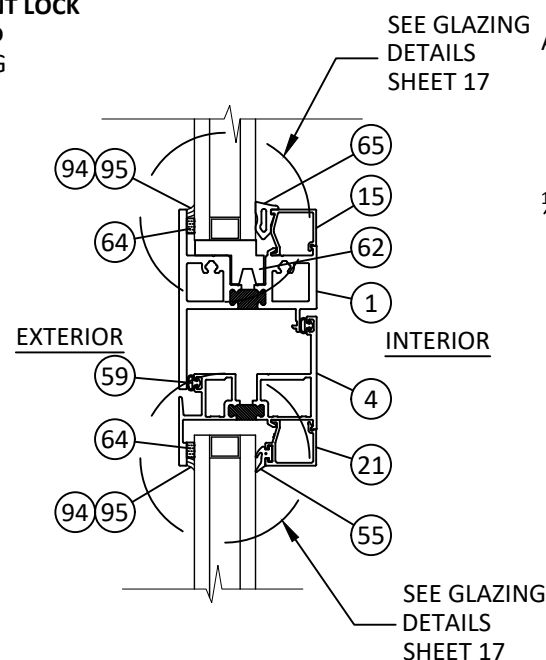
X12 HORIZONTAL SECTION
INTEGRAL MULLION - TYP.
FIXED - STANDARD



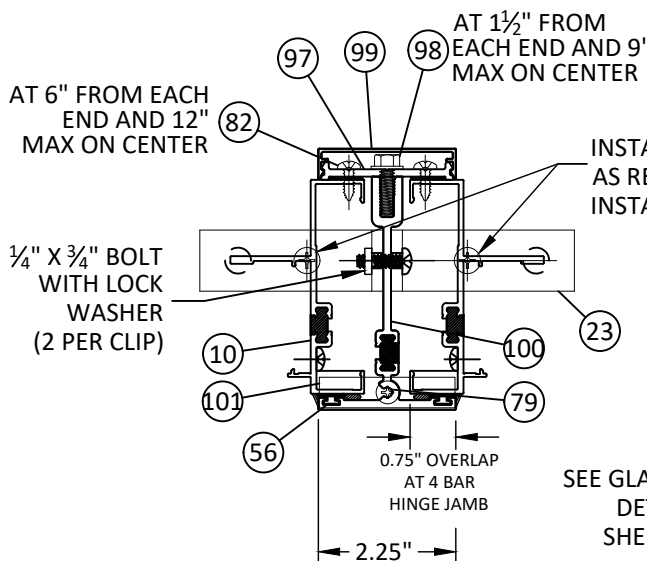
W112 HORIZONTAL SECTION
OUTSWING INTEGRAL MULLION
WITH MULTI POINT LOCK



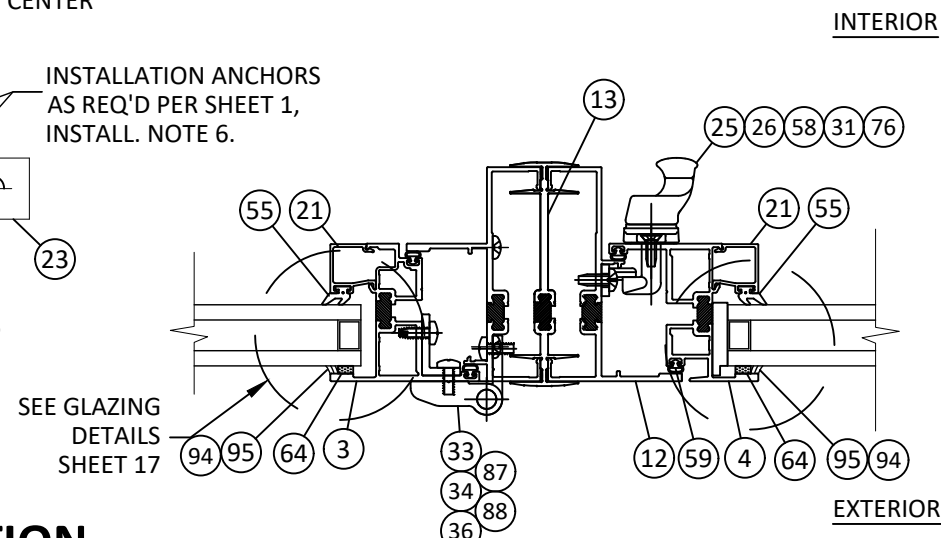
V12 VERTICAL SECTION
INTEGRAL MULLION-TYP.
FIXED OVER CASEMENT OUTSWING



V112 VERTICAL SECTION
INTEGRAL MULLION-TYP.
FIXED OVER CASEMENT INSWING



AA12 HORIZONTAL SECTION
STACK MULLION - TYP.
INSTALL TO CONCRETE/MASONRY



Y12 HORIZONTAL SECTION
ZERO MULLION - TYP.
OUTSWING CASEMENT - INSWING CASEMENT



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1229 HWY 441 BYPASS
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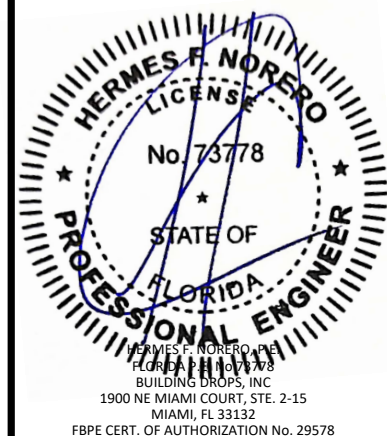
TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)
INTEGRAL & STACK MULL DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-9478
FAX: (954)744-4738
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FL #:
FL16312

DATE: **8.24.15**

DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK150**

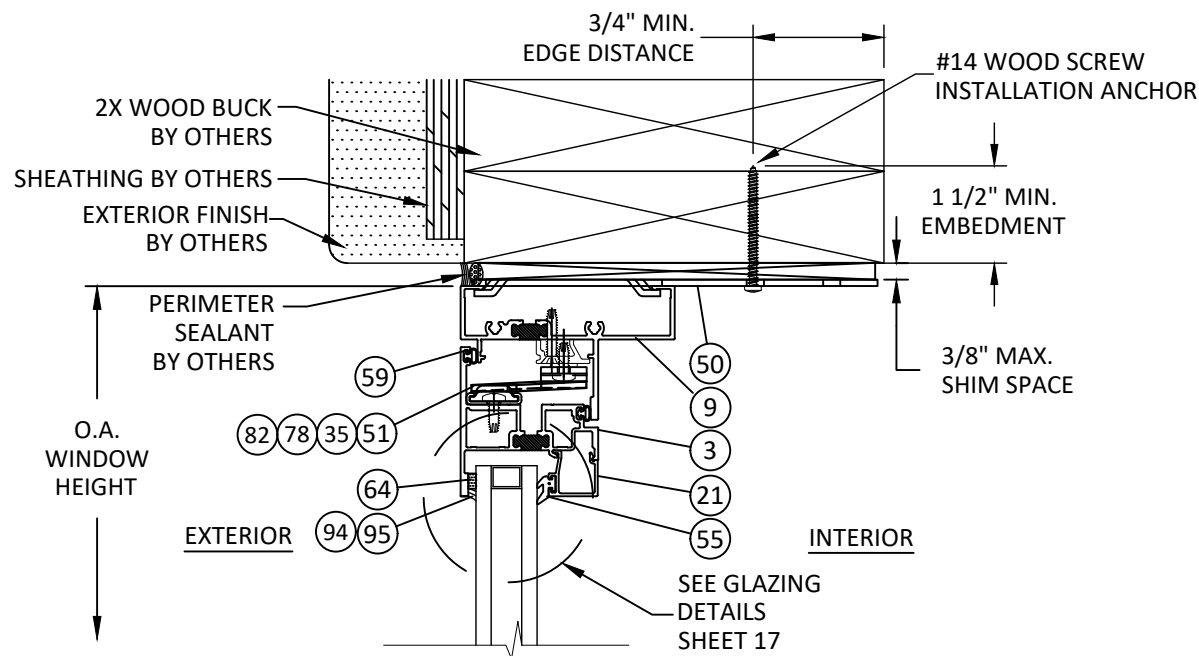
SHEET:

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[PAGE 14 of 22]

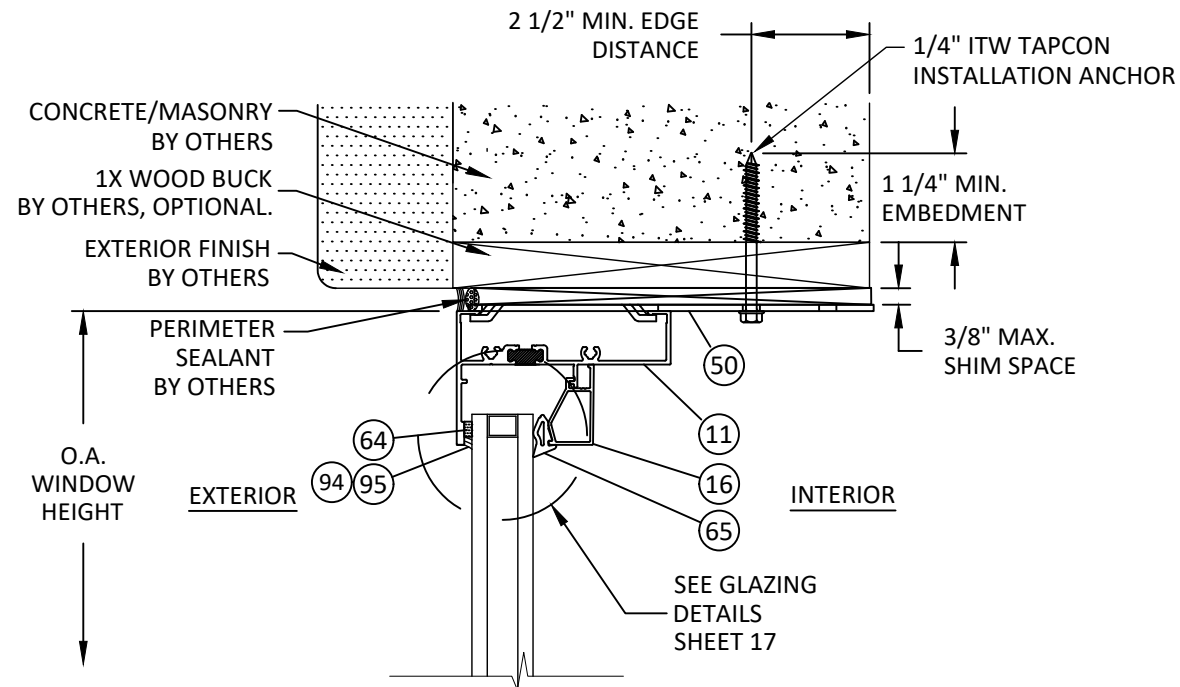
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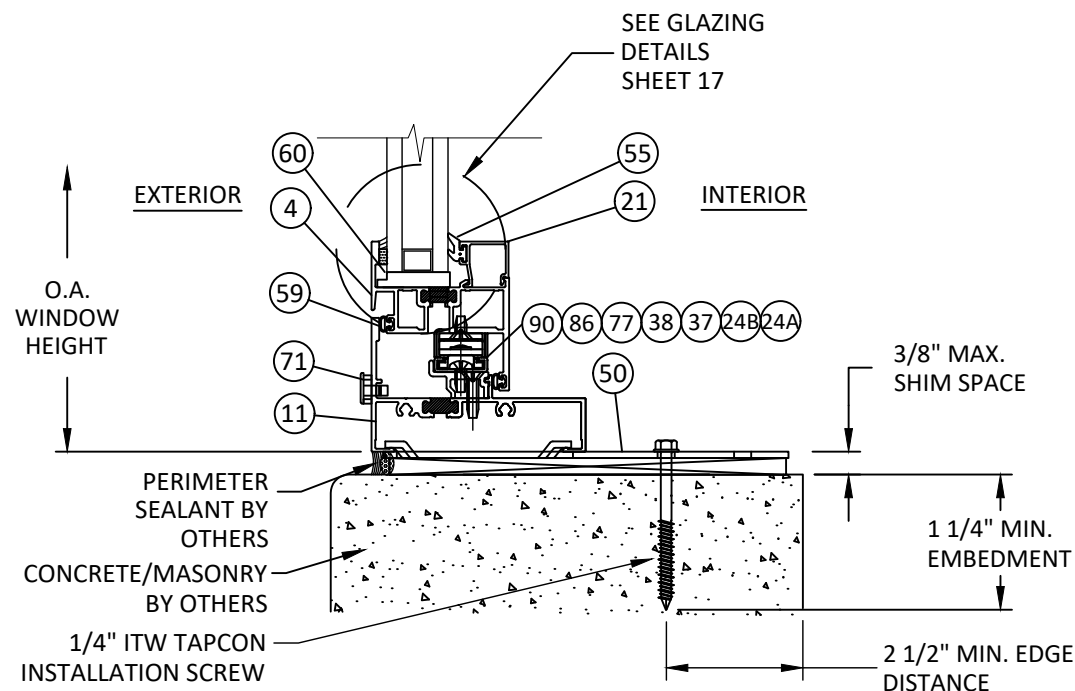


AC 13 VERTICAL SECTION
OUTSWING VENT HEAD - 2X WOOD FRAME
TWIST ANCHOR - TYP.

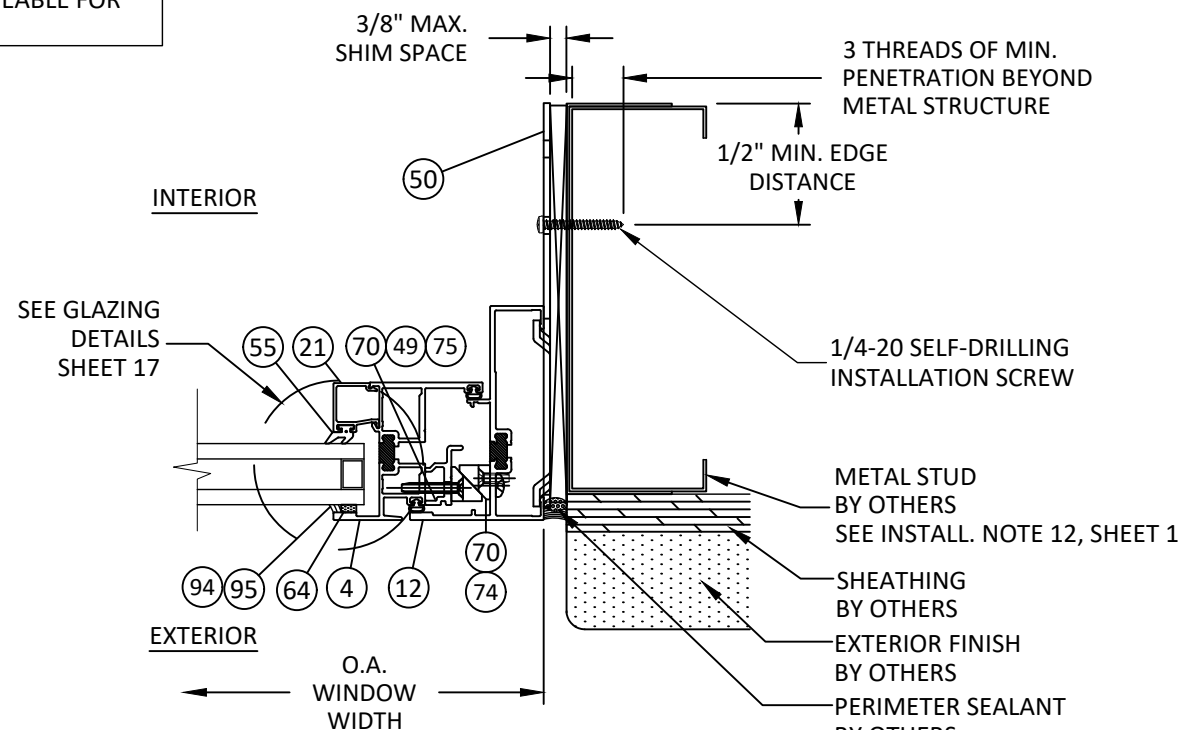
NOTE: INSWING AND OUTSWING
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AD 13 VERTICAL SECTION
FIXED HEAD - 1X/CONCRETE/MASONRY
TWIST ANCHOR - TYP.



AB 13 VERTICAL SECTION
INSWING VENT SILL - CONCRETE/MASONRY
TWIST ANCHOR - TYP.



AE 13 HORIZONTAL SECTION
INSWING VENT HINGE JAMB - METAL STUD
TWIST ANCHOR - TYP.



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

TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)

TWIST ANCHOR INSTALLATION DETAILS

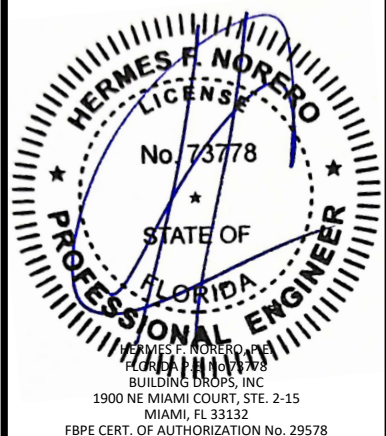
PREPARED BY:
BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-9478
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WEB: www.buildingdrops.com



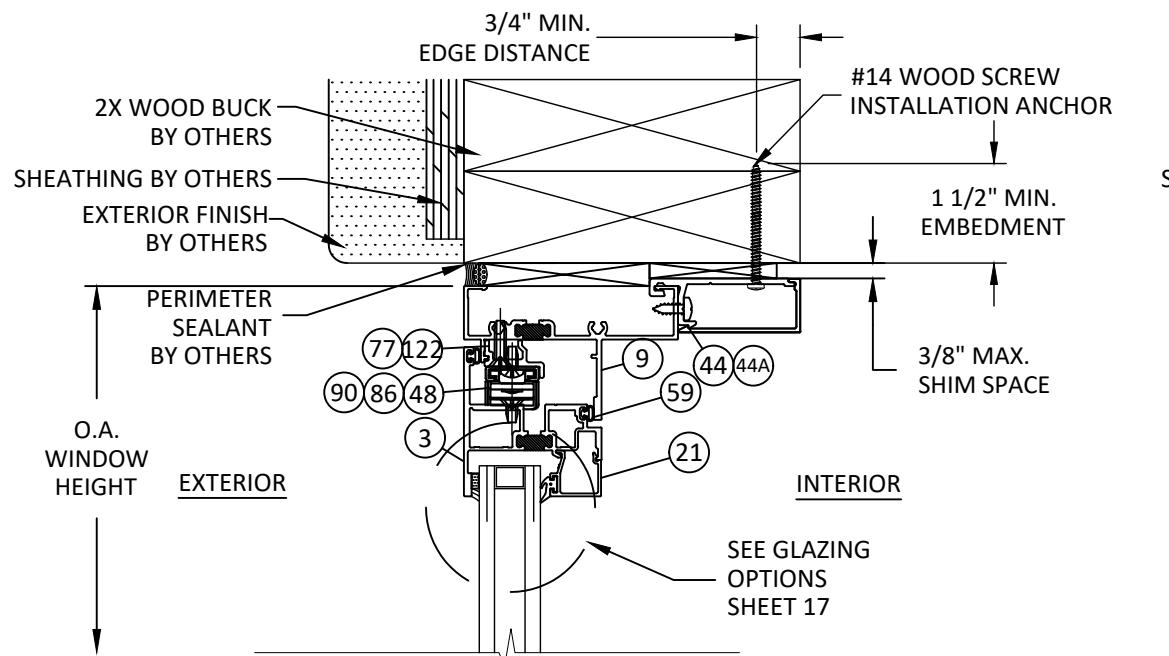
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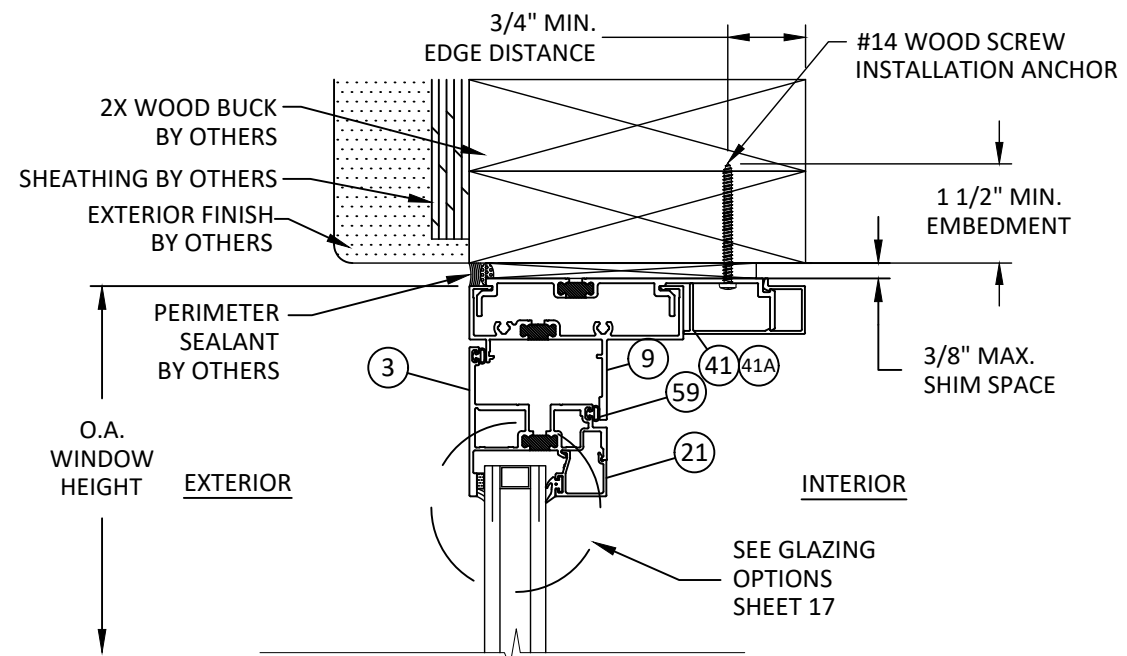


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SHEET:	13

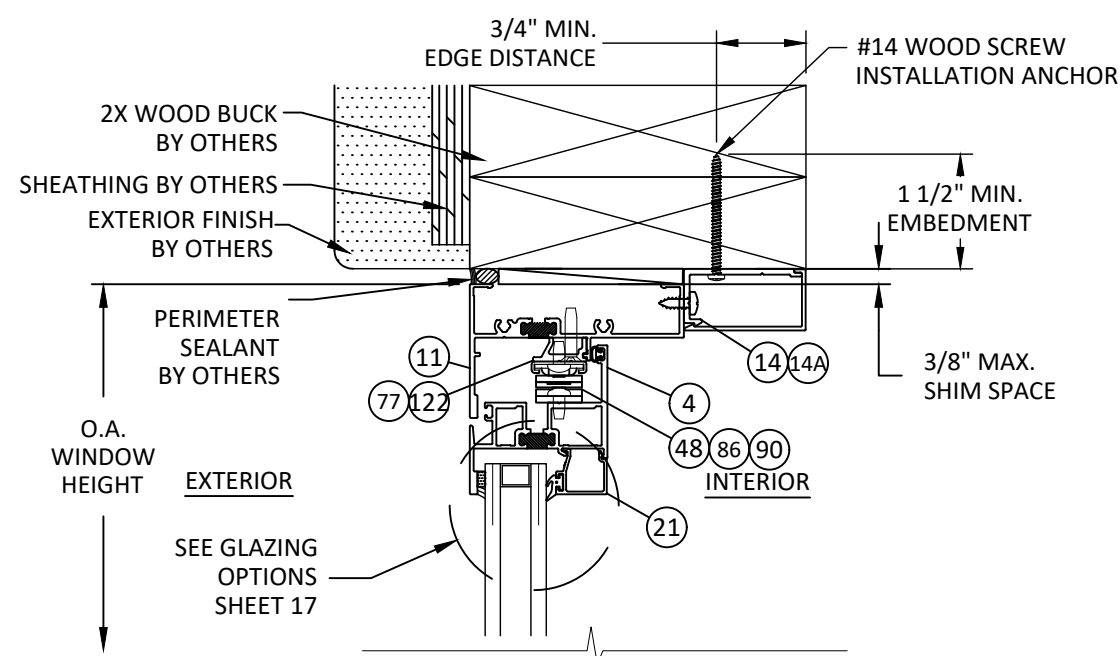
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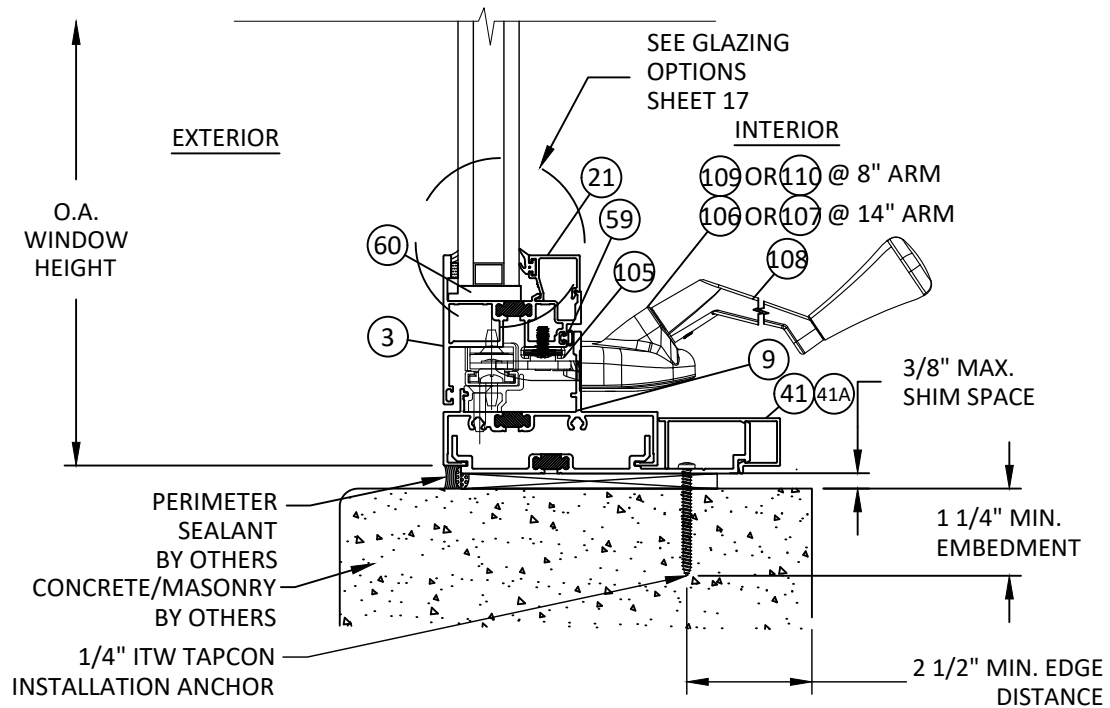
AF 14 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
CLIP ANCHOR - TYP. "OUTSWING"
ACCESSIBLE HARDWARE



AG 14 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP. "OUTSWING"
ACCESSIBLE HARDWARE



AH 14 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TRIM CLIP ANCHOR - TYP. "INSWING"
ACCESSIBLE HARDWARE



AI 14 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
STRAP ANCHOR - TYP. "OUTSWING"
ACCESSIBLE HARDWARE



Quality
inspires™

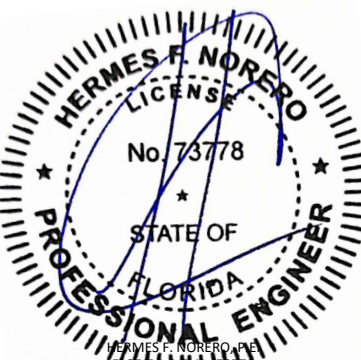
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)
ACCESSIBILITY HARDWARE
INSTALLATION DETAILS

PREPARED BY:
**BUILDING DROPS, INC.**
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-9478
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FLORIDA LICENSE NO. 73778
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL16312

DATE:
8.24.15

DWG. BY:
SM

CHK. BY:
HFN

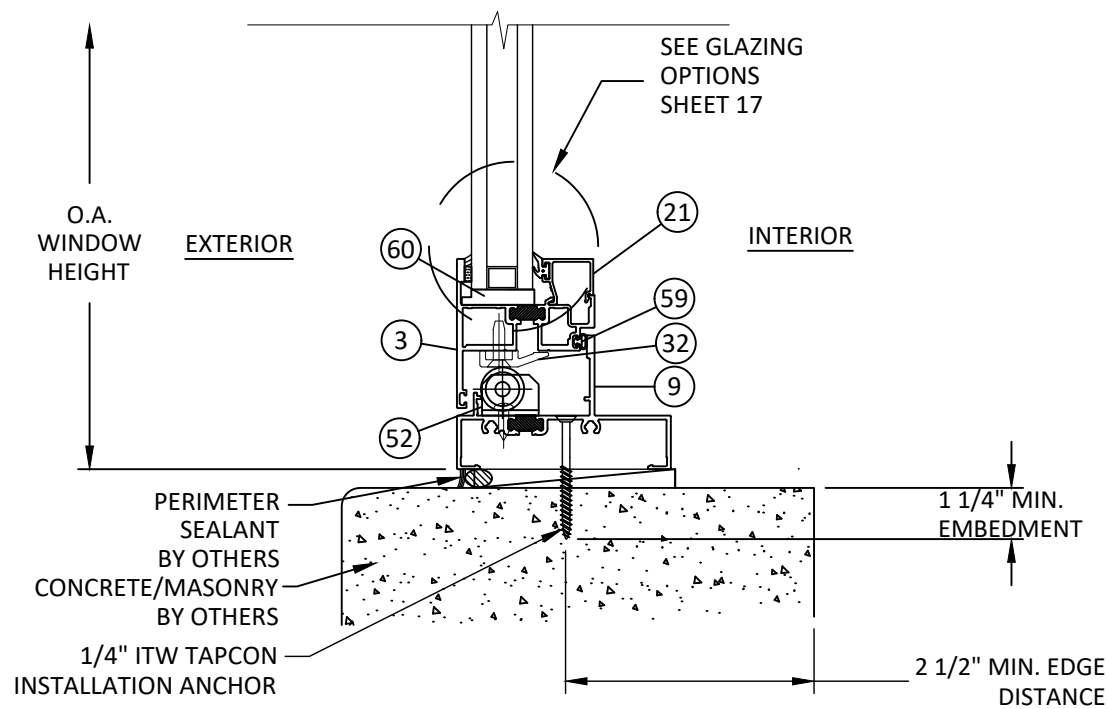
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DWG. #:
YKK150

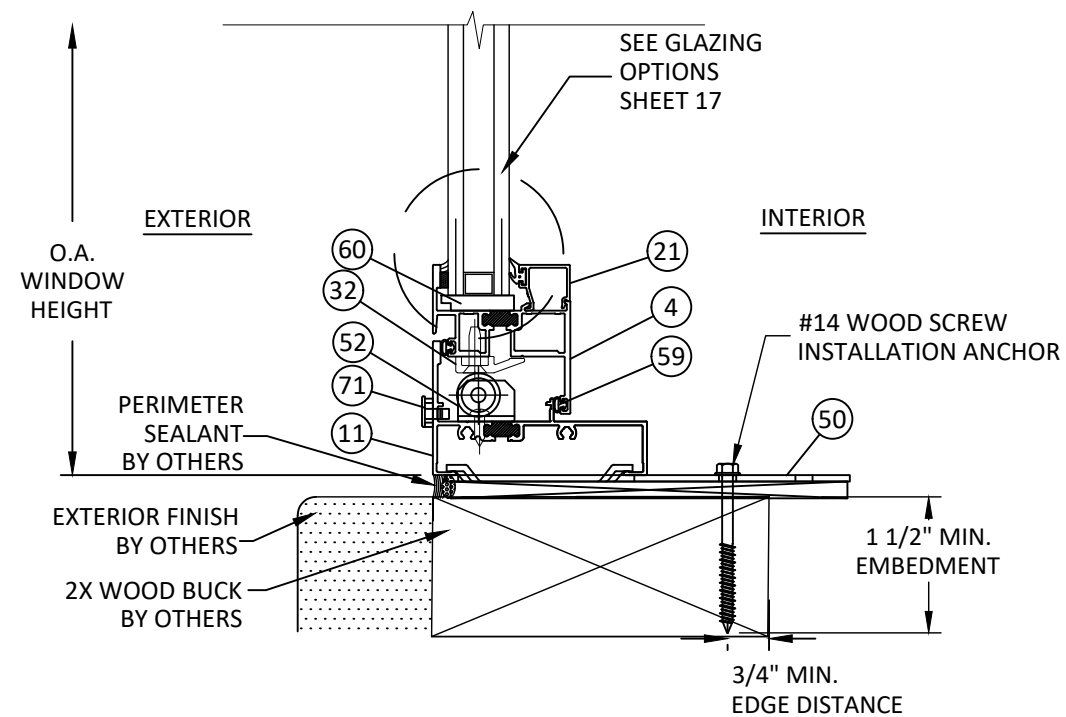
SHEET:
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AJ 15 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
THROUGH FRAME ANCHOR - TYP. "OUTSWING"
ACCESSIBLE HARDWARE



AK 15 **VERTICAL SECTION**
VENT SILL - 2X WOOD BUCK
TWIST ANCHOR - TYP. "INSWING"
ACCESSIBLE HARDWARE



YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
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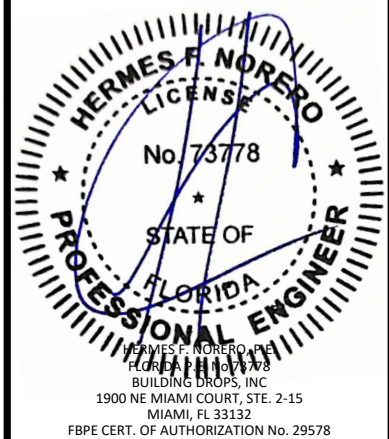
TITLE:
YOW 350 THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)
ACCESSIBILITY HARDWARE
INSTALLATION DETAILS

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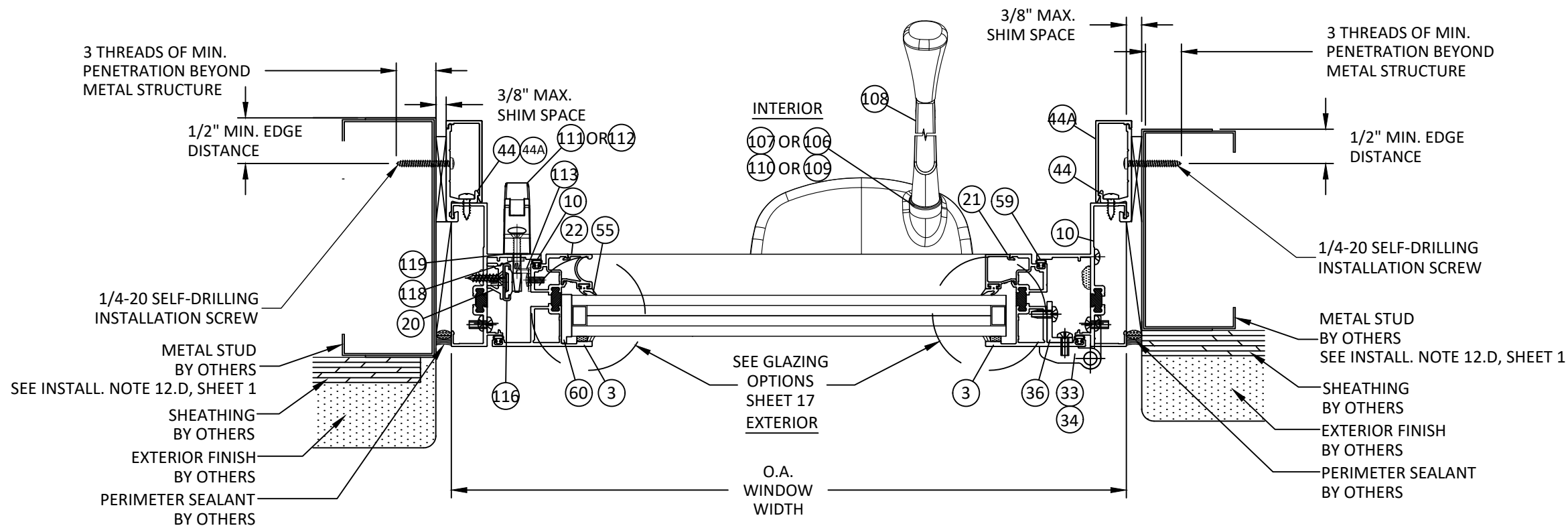
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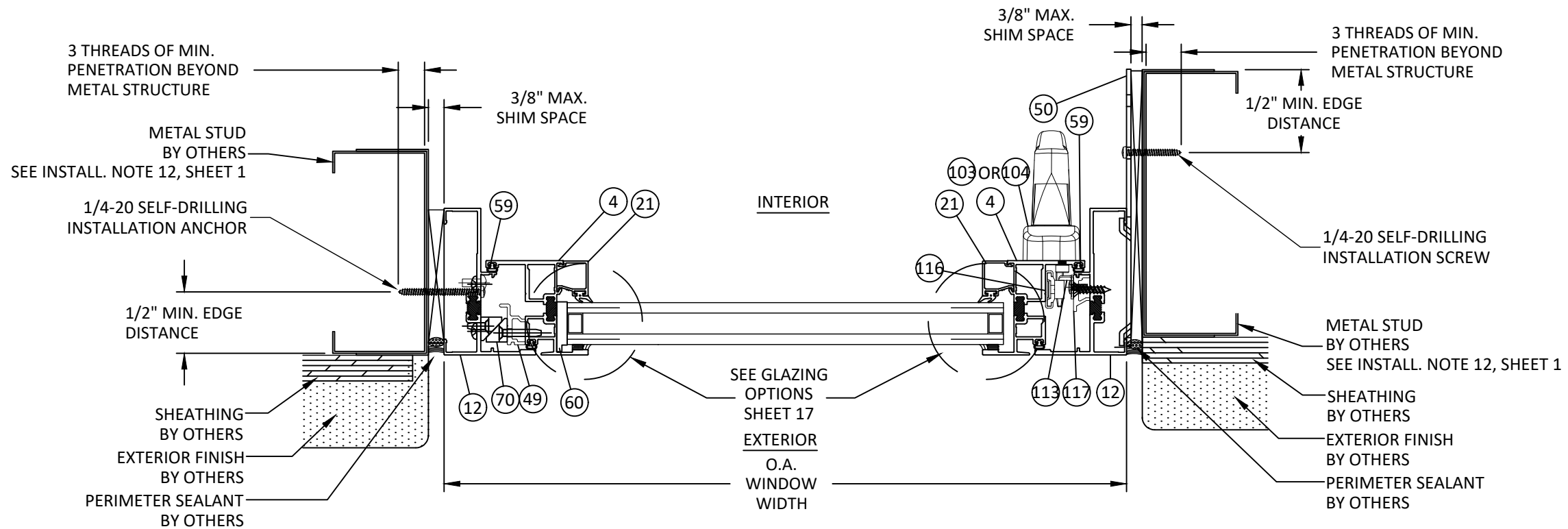


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DWG. #:	YKK150
SHEET:	15

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AL HORIZONTAL SECTION
16 VENT JAMB - MULL TUBE FRAME
CLIP ANCHOR - TYP. "OUTSWING"
ACCESSIBLE HARDWARE



AM HORIZONTAL SECTION
16 VENT JAMB - MULL TUBE FRAME
THROUGH FRAME/TWIST ANCHOR - TYP. "INSWING"
ACCESSIBLE HARDWARE



YKK AP America Inc.
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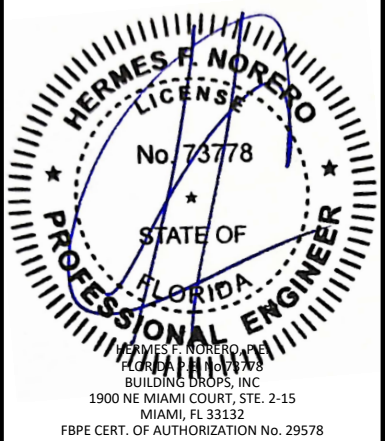
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WEB: www.buildingdrops.com



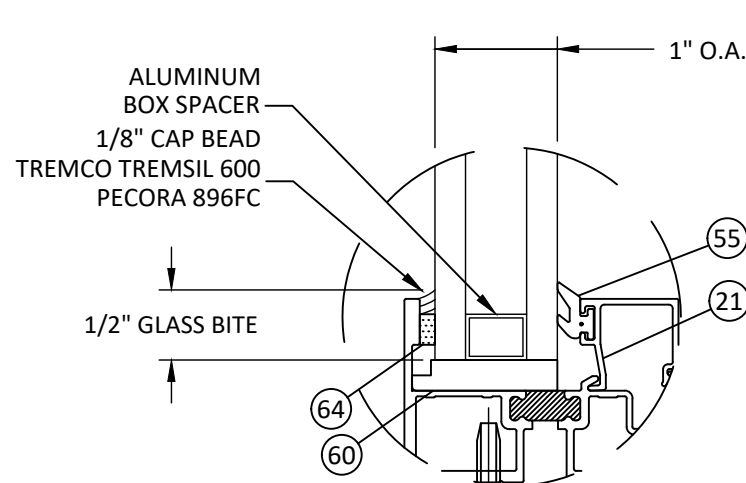
REMARKS	BY	DATE
2023 FBC CODE UPDATE	MS	05.05.23
MISC. UPDATE	SH	02.26.24

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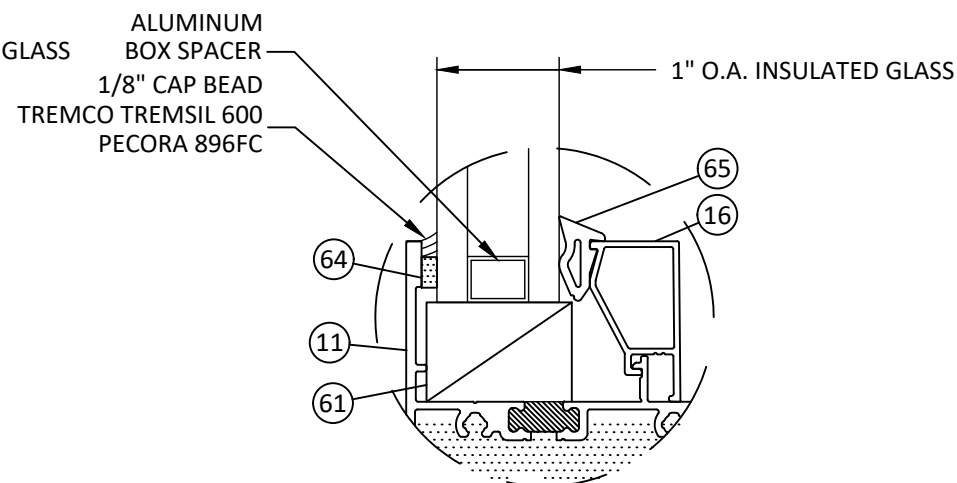


FL #:	FL16312
DATE:	8.24.15
DWG. BY:	CHK. BY:
SM	HFN
SCALE:	NTS
DWG. #:	YKK150
SHEET:	16

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VENT GLAZING DETAIL



FIXED GLAZING DETAIL

GLAZING NOTES:

1. GLASS TYPE SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLE ON SHEET 1.

AIR SPACE CONSISTING OF :

- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.



YKK AP America Inc.
1229 HWY 441 BYPASS
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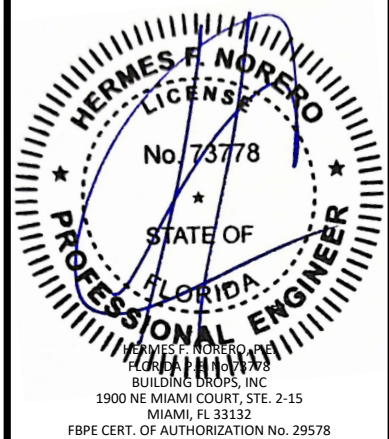
TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)
GLAZING DETAIL

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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YOW 350 TU - BILL OF MATERIALS				
ITEM #	PART#	DESCRIPTION	MATERIAL	MANUFACTURER
1	BE9-4510	MULLION	6063-T5	YKK AP
2	BE9-4512	MULLION	6063-T5	YKK AP
3	BE9-4534	VENT (OUTSWING)	6063-T5	YKK AP
4	BE9-4535	VENT (INSWING)	6063-T5	YKK AP
5	BE9-4560	VENT/FIX MULLION	6063-T5	YKK AP
6	BE9-4561	VENT/VENT MULLION	6063-T5	YKK AP
7	BE9-4581	3 1/2" RECEPTOR	6063-T5	YKK AP
8	BE9-4584	3 1/2" WEEPING SILL FLASHING	6063-T5	YKK AP
9	BE9-5201	FRAME HEAD/SILL (OUTSWING)	6063-T5	YKK AP
10	BE9-5202	FRAME JAMB (OUTSWING)	6063-T5	YKK AP
11	BE9-5203	FRAME HEAD/SILL (FIXED/INSWING)	6063-T5	YKK AP
12	BE9-5204	FRAME JAMB (FIXED/INSWING)	6063-T5	YKK AP
13	BE9-5220	ZERO MULLION	6063-T5	YKK AP
14	E9-4031	1" X 2" TRIM CLIP	6063-T5	YKK AP
14A	E9-4032	TRIM CLIP COVER	6063-T5	YKK AP
15	E9-4506	GLASS STOP - WEDGE GASKET	6063-T5	YKK AP
16	E9-4507	GLASS STOP - WEDGE GASKET	6063-T5	YKK AP
17	E9-4508	GLASS STOP - WEDGE GASKET	6063-T5	YKK AP
18	E9-4513	FRAME ATTACHMENT	6063-T5	YKK AP
19	E9-4578	RECEPTOR COVER	6063-T5	YKK AP
20	E9-4593	BASE	6063-T5	YKK AP
21	E9-5218	GLASS STOP - PRESET GASKET	6063-T5	YKK AP
22	E9-5219	GLASS STOP WITH PULL - PRESET GASKET	6063-T5	YKK AP
23	E1-1537	MULL CLIP	6063-T5	YKK
24A	4K-14207	4 BAR HINGE - 12" - (CASEMENT & PROJECT OUT)	STAINLESS STEEL	YKK AP
24B	4K-14208	4 BAR HINGE - 16" - (CASEMENT)	STAINLESS STEEL	YKK AP
24C	5K-15284	4 BAR HINGE - 16" - (PROJECT OUT)	STAINLESS STEEL	YKK AP
25	E1-1503	CAM HANDLE (L) - INSWING	WHITE BRONZE	BRONZECRAFT OR EQUAL
26	E1-1504	CAM HANDLE(R)- INSWING	WHITE BRONZE	BRONZECRAFT OR EQUAL
27	E1-1505	MPL LOCK HANDLE	WHITE BRONZE	BRONZECRAFT OR EQUAL
28	E1-1519	KEEPER - OUTSWING	WHITE BRONZE	BRONZECRAFT OR EQUAL
29	E1-1541	CAM HANDLE (R)-OUTSWING	WHITE BRONZE	BRONZECRAFT OR EQUAL
30	E1-1542	CAM HANDLE (L)-OUTSWING	WHITE BRONZE	BRONZECRAFT OR EQUAL
31	E1-1707	KEEPER - INSWING	WHITE BRONZE	BRONZECRAFT OR EQUAL
32	E1-1713	GUIDE ROLLER BASE	6063-T5	YKK AP
33	E1-1714	BUTT HINGE	6063-T5	YKK AP
34	E1-1715	BUTT HINGE	6063-T5	YKK AP
35	E1-1721	ARM BASE	6063-T5	YKK AP
36	E1-1723	BUTT HINGE ANGLE	6063-T5	YKK AP
37	E1-1780	4 BAR HINGE BASE	6063-T5	YKK AP
38	E1-1781	4 BAR HINGE BASE	6063-T5	YKK AP
39	E1-1786	CORNER BLOCK	6063-T5	YKK AP
40	E1-1787	CORNER BLOCK	6063-T5	YKK AP
41	E1-1799	STRAP ANCHOR	6063-T5	YKK AP
41A	E9-8431	STRAP ANCHOR COVER		
42	E1-1839	4 BAR HINGE BASE(R)	6063-T5	YKK AP
43	E1-1840	4 BAR HINGE BASE(L)	6063-T5	YKK AP
44	E1-1922	ANCHOR CLIP	6063-T5	YKK AP
44A	E9-4035	ANCHOR CLIP COVER		

NOTE: COMPONENTS & PART NUMBERS LISTED IN B.O.M. AND SHOWN ON SHEETS 19 & 20 ARE USED THROUGHOUT YKK YOW350TU WINDOW SERIES OF FIXED, CASEMENT, AND PROJECTED WINDOW PRODUCTS, NOT ALL COMPONENTS LISTED ARE USED IN CASEMENT WINDOW.

YOW 350 TU - BILL OF MATERIALS				
ITEM #	PART#	DESCRIPTION	MATERIAL	MANUFACTURER
45	E1-1952	KEEPER	CAST ALUMINUM	AMC/CALDWELL OR EQUAL
46	E1-1954-XXXX	LOCK BAR (BASE)	STAINLESS/ALUMINUM	AMC/CALDWELL OR EQUAL
47	E1-1955-XXXX	LOCK BAR (EXT.)	STAINLESS/ALUMINUM	AMC/CALDWELL OR EQUAL
48	E1-1957	4 BAR HINGE - 12" - (CASEMENT OUT EGRESS)	STAINLESS STEEL	AMC/CALDWELL OR EQUAL
49	E1-1959	SNUBBER BASE	6063-T5	YKK AP
50	E1-1971	TWIST ANCHOR - 3 1/2" FRAMING	GALVINIZED STEEL	WILD BORE FABRICATORS OR EQUAL
51	E1-1976	FRICTION ADJUSTER	STAINLESS STEEL	TRUTH HARDWARE OR EQUAL
52	K-10639	GUIDE ROLLER	STAINLESS/NYLON	YKK AP
53	E2-0359	PUSH IN SPACER		
54	E1-2004	END DAM		
55	E2-0050	PRESET GASKET	EPDM	TREMCO OR EQUAL
56	E2-0051	AT GASKET	SANTOPRENE	TREMCO OR EQUAL
57	E2-0133PC	SIDE BLOCK x 4" LONG	EPDM PC	TREMCO OR EQUAL
58	E2-0619	GASKET - FOR INSWING CAM HANDLE	NEOPRENE	BRONZECRAFT OR EQUAL
59	E2-0625	AT GASKET	SANTOPRENE	TREMCO OR EQUAL
60	E2-0626PC	SETTING BLOCK x 4"LONG	EPDM PC	TREMCO OR EQUAL
61	E2-0646PC	SETTING BLOCK x 4"LONG	EPDM PC	TREMCO OR EQUAL
62	E2-0647PC	SETTING BLOCK x 4" LONG	EPDM	TREMCO OR EQUAL
63	E2-0651PC	SETTING BLOCK x 4" LONG	EPDM PC	TREMCO OR EQUAL
64	E2-0670	BACKER TAPE	POLYURETHANE FOAM	TREMCO OR EQUAL
65	E2-0672	WEDGE GASKET	EPDM	TREMCO OR EQUAL
66	E2-0682	GASKET - FOR MPL HANDLE	BUTYL RUBBER	BRONZECRAFT OR EQUAL
67	E2-0359	SPACER	EPDM	TREMCO OR EQUAL
68	E2-0769	JAMB BLOCK		
69	E9-4559	SILL TRIM BASE		
70	E3-1103	SNUBBER	NYLON 6	INTERNATIONAL PRODUCTS OR EQUAL
71	E3-1132	WEEP HOLE COVER	NYLON	INTERNATIONAL PRODUCTS OR EQUAL
72	E9-4586	3" SILL TRIM	6063-T5	
73	FA1014-SS	#10 X7/8" SMS T/A	300 STAINLESS STEEL	FOR LOCK BAR - EXT. BAR & LOCK BAR BASE
74	FF0808-SS	#8-32 x 1/2" T/F	300 STAINLESS STEEL	FOR SNUBBER - FRAME
75	FF0816-SS	#8-32 x 1" T/F	300 STAINLESS STEEL	FOR SNUBBER / SNUBBER CHAIR - VENT
76	FF1008-SS	#10-24 x 1/2" T/F	300 STAINLESS STEEL	FOR CAM HANDLE & KEEPER
77	FF1012-SS	#10-24 x 3/4" T/F	300 STAINLESS STEEL	FOR 4 BAR HINGE (BASE) & GUIDE ROLLER BASE
78	FF1016-SS	#10-24 x 1" T/F	300 STAINLESS STEEL	FOR ARM BASE
79	FM1006-SS	#10-24 x 3/8" T/F	300 STAINLESS STEEL	FOR MPL LOCK HANDLE
80	FS1010-SS	#10-24 x 5/8" (TEK)	300 STAINLESS STEEL	FOR KEEPER LOCK DOWN
81	PC0808-SS	#8 x 1/2" SMS T/AB	300 STAINLESS STEEL	FOR GUIDE ROLLER
82	PC1008-SS	#10 x 1/2" SMS T/AB	300 STAINLESS STEEL	FOR ANCHORING TRIM CLIP E94031
83	PC1016-SS	#10 x 1" SMS T/AB	300 STAINLESS STEEL	FOR FRAME ASSEMBLY

YOW 350 TU - BILL OF MATERIALS				
ITEM #	PART#	DESCRIPTION	MATERIAL	MANUFACTURER
84	PC1020-SS	#10 x 1 1/4" SMS T/AB	300 STAINLESS STEEL	FOR FRAME TO MULLION ASSEMBLY
85	PC1040-SS	#10X 2 1/2" SMS T/AB	300 STAINLESS STEEL	RECEPTOR ANCHOR
86	PF1006-SS	#10-24 x 3/8" T/F	300 STAINLESS STEEL	FOR 4 BAR HINGE (FRAME) & FRICTION ADJUSTER
87	PF1008-SS	#10-24 x 1/2" T/F	300 STAINLESS STEEL	FOR BUTT HINGE (VENT) & FOR LIMIT STOP
88	PM1007-SS	#10-24 x 7/16" MS	300 STAINLESS STEEL	FOR BUTT HINGE (FRAME & VENT)
89	UF0810-SS	#8-32 x 5/8" UNDERCUT T/F	300 STAINLESS STEEL	FOR RAIL CHANNEL
90	UF1006-SS	#10-24 x 3/8" UNDERCUT T/F	300 STAINLESS STEEL	FOR 4 BAR HINGE (VENT)
91	WN1001-SS	#10 x 1/16" FLAT WASHER	300 STAINLESS STEEL	FOR KEEPER (INSWING)
92		1/4" X 2 3/4" HXHD TAPCON	COATED CARBON STEEL	FRAME ANCHOR
93	E9-4587	4" SILL TRIM	6063-T5	
94	PECORA 896FC	SILICONE		TREMCO OR EQUAL
95	TREMSIL 600	SILICONE		TREMCO OR EQUAL
96	BE9-4509	MULLION	6063-T5	
97	AS-4428	PRESSURE PLATE	6063-T5	YKK
98	HM-2516-W3-SS	1/4" - 20 X 1" HWHMS	300 STAINLESS STEEL	FOR PRESSURE PLATE
99	E9-5111	SNAP COVER	6063-T5	YKK
100	BE9-4925	STACK MULLION	6063-T5	YKK
101	E1-1536	END CAP	6063-T5	YKK
102	PC-1208-SS	#12 X 1/2" PH SMS SS AB	300 STAINLESS STEEL	FOR MULL CLIP
103	H-1906	8" EXTENDED HANDLE - LH	ZAMACK / STEEL	
104	H-1907	8" EXTENDED HANDLE - RH	ZAMACK / STEEL	
105	E1-1982	TRACK	STAINLESS STEEL	
106	E1-1989	14" SINGLE ARM OPERATOR - L.H.	ZAMACK/STEEL	
107	E1-1990	14" SINGLE ARM OPERATOR - R.H.	ZAMACK/STEEL	
108	E1-1983	LARGE HANDLE CRANK	ZAMACK	
109	E1-1987	8" SINGLE ARM OPERATOR - L.H.	ZAMACK / STEEL	
110	E1-1988	8" SINGLE ARM OPERATOR - R.H.	ZAMACK / STEEL	
111	E1-1966	STANDARD MPL HANDLE	ZAMACK /STEEL	
112	E1-1994	EXTENDED MPL HANDLE	ZAMACK / STEEL	
113	4K-18584	KEEPER	PLATED STEEL	
114				
115				
116	E1-2001	LOCK BAR	STAINLESS/ALUM.	
117	E1-1993	KEEPER BASE	6063-T5	
118	E1-1980	BACKER PLATE	STAINLESS STEEL	
119	E1-1979	HANDLE GASKET	RUBBER/BUTYL	
120	E1-1906	LIMIT BASE	6063-T5	
121	E1-1904	LIMIT DEVICE	STAINLESS STEEL	
122	E1-1960	4 BAR HINGE BASE	6063-T5	

YKK

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YKK AP America Inc.

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

TITLE:
YOW 350 TU THERMAL ALUMINUM
CASEMENT WINDOW
(NON-HVHZ) (NON-IMPACT)

BILL OF MATERIALS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-9478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BD

BUILDING DROPS

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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.

FLORIDA P.E. #1107778

BUILDING DROPS, INC

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL16312

DATE:

8.24.15

DWG. BY:

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CHK. BY:

HFN

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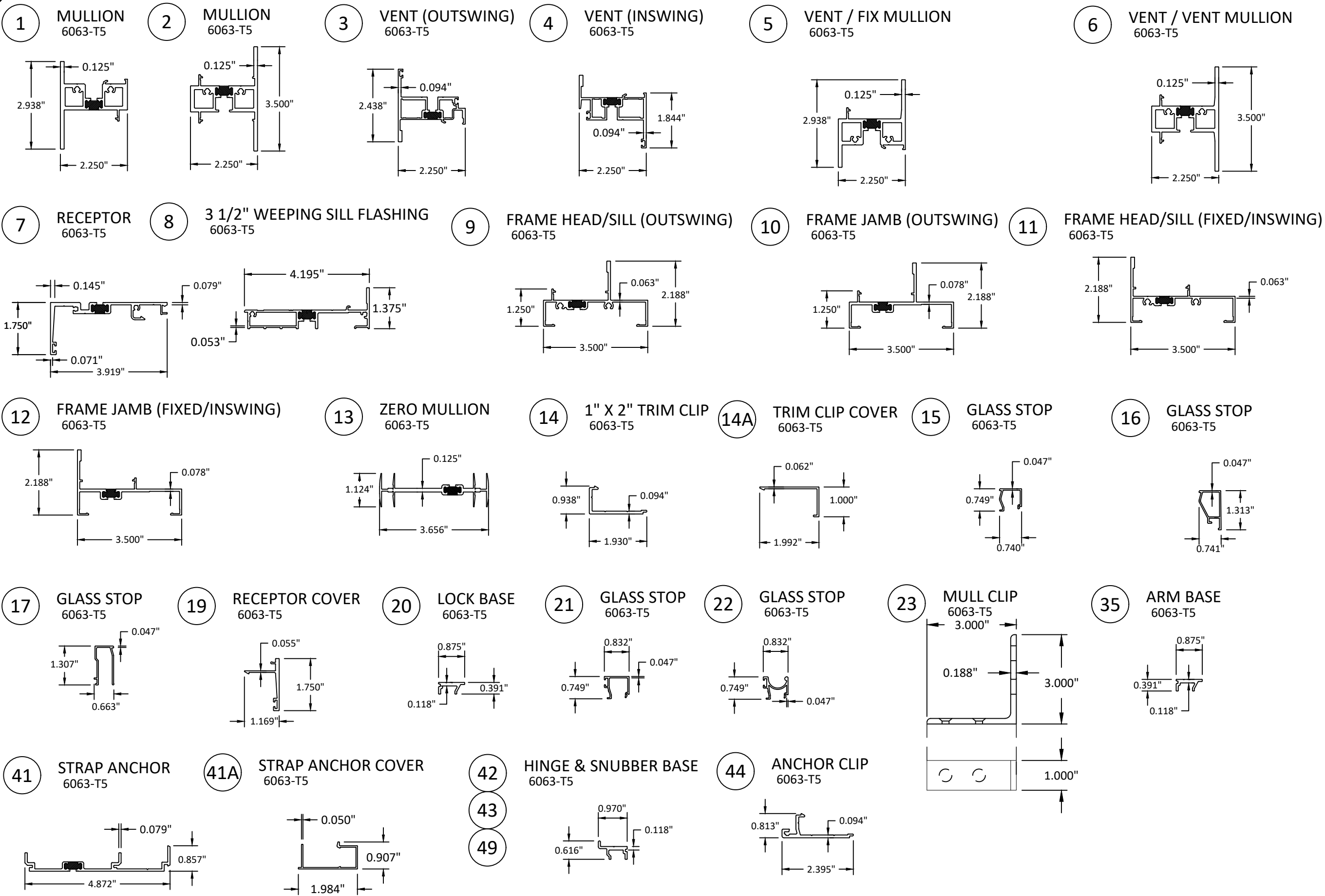
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YOW 350 TU THERMAL ALUMINUM
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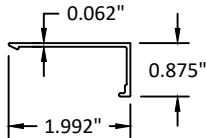
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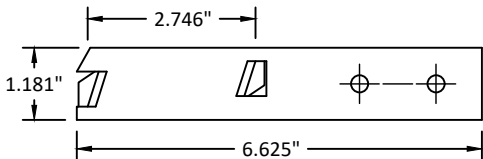
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MIAMI, FL 33132
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[PAGE 21 of 22]	

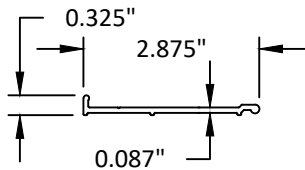
44A ANCHOR CLIP COVER
6063-T5



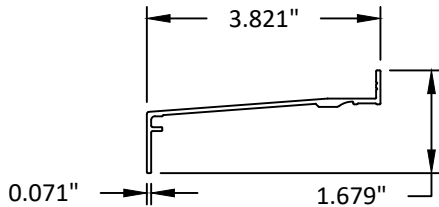
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GALVINIZED STEEL



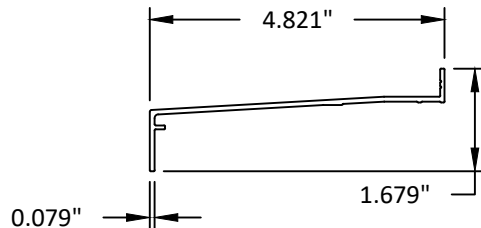
69 SILL TRIM BASE
6063-T5



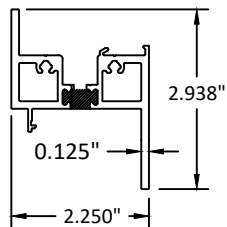
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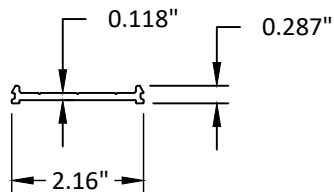
93 4" SILL TRIM
6063-T5



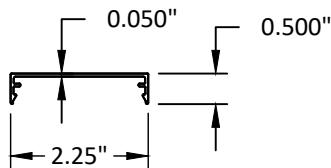
96 MULLION
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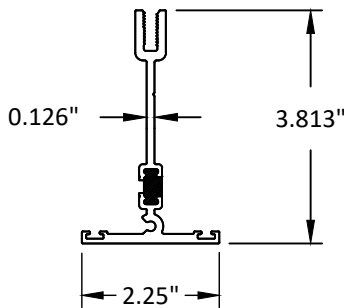
97 PRESSURE PLATE
6063-T5



99 PRESSURE PLATE
SNAP COVER



100 STACK MULLION
6063-T5



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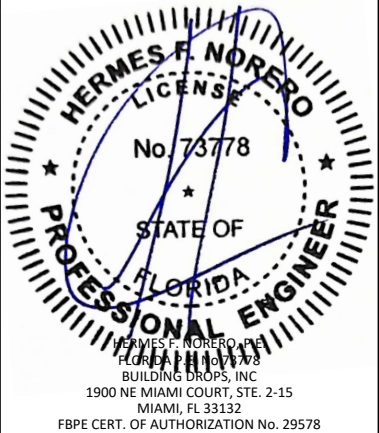
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