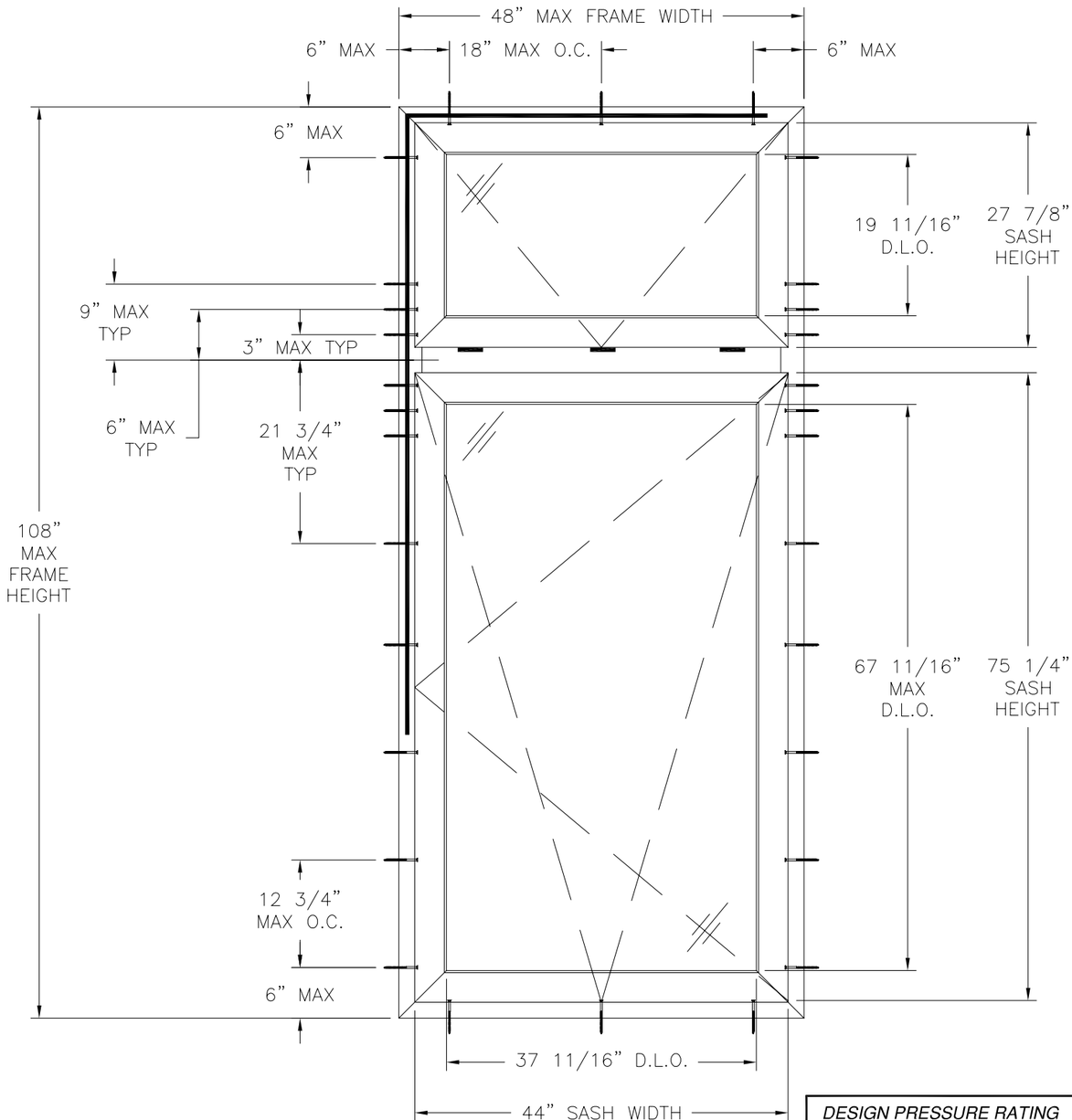
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



V-100 uPVC IMPACT HOPPER OVER TILT TURN
EXTERIOR VIEW

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND THE RESIDENTIAL CODE WITH STATE OF TEXAS MODIFICATIONS.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: EXTRUDED RIGID PVC.
6. UNITS MUST BE GLAZED PER ASTM E1300–04, SEE SHEET 2 FOR GLASS OPTIONS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" CONCRETE ANCHORS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. 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 BELOW:
    A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
    B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
    C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
    D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 1/8" THICK MINIMUM

DESIGN PRESSURE RATING	*IMPACT RATING*
+100.0/-130.0PSF	*LARGE MISSILE IMPACT*

MISSILE LEVEL D, WIND ZONE 4

SIGNED: 03/05/2013

TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1 – 2	ELEVATION, ANCHORING, NOTES & CROSS SECTIONS
3 – 4	INSTALLATION DETAILS
5	HARDWARE LOCATIONS AND COMPONENTS

WinDoor INCORPORATED
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V–100 uPVC IMPACT HOPPER OVER TILT TURN
COMBO ASSEMBLY 48" X 108"
ELEVATION AND NOTES

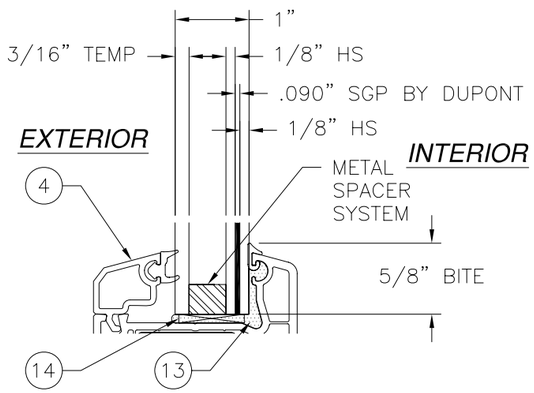
DRAWN:	DWG NO.	REV
A.P.	08–01763	–

SCALE	DATE	SHEET
NTS	09/04/12	1 OF 5

STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
TX No.: 101889

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	101.214	FRAME	VEKA	WHITE PVC
2	103.228	SASH FRAME	VEKA	WHITE PVC
3	102.218	85MM T MULLION	VEKA	WHITE PVC
4	107.200	1" GLAZING BEAD	VEKA	WHITE PVC
5	FH-06511	SASH REINFORCEMENT	KEYMARK	ALUMINUM 6005-T61
6	FH-06512	FRAME REINFORCEMENT	KEYMARK	ALUMINUM 6005-T61
7	FH-06561	T MULLION REINFORCEMENT	KEYMARK	6005-T61
8	112.050	GLAZING GASKET	VEKA	EPDM 60 DURO
9	4-3334	GLAZING GASKET	LAUREN	EPDM 70 DURO
10	112.380	FILLER PROFILE	VEKA	EPDM 60 DURO
11	V200-AC-01	VENT GLAZING LEG ADAPTER		
12		MULTI-POINT LOCK	SIEGENIA	
13	SIKA 552	SEALANT	SIKA	
14	2"X1 1/2"X1/4"	SETTING BLOCK	FRANK LOWE	80 DUROMETER
15		#8 X 1 1/2" PHILIPS PH SCREW		
16		#8 X 1" PHILLIPS PH SCREW		
17		#10 X 3" FH SMS		
18	12-07-3443	HINGED SCREW COVER	ARK-PLAS	POLYPROPYLENE



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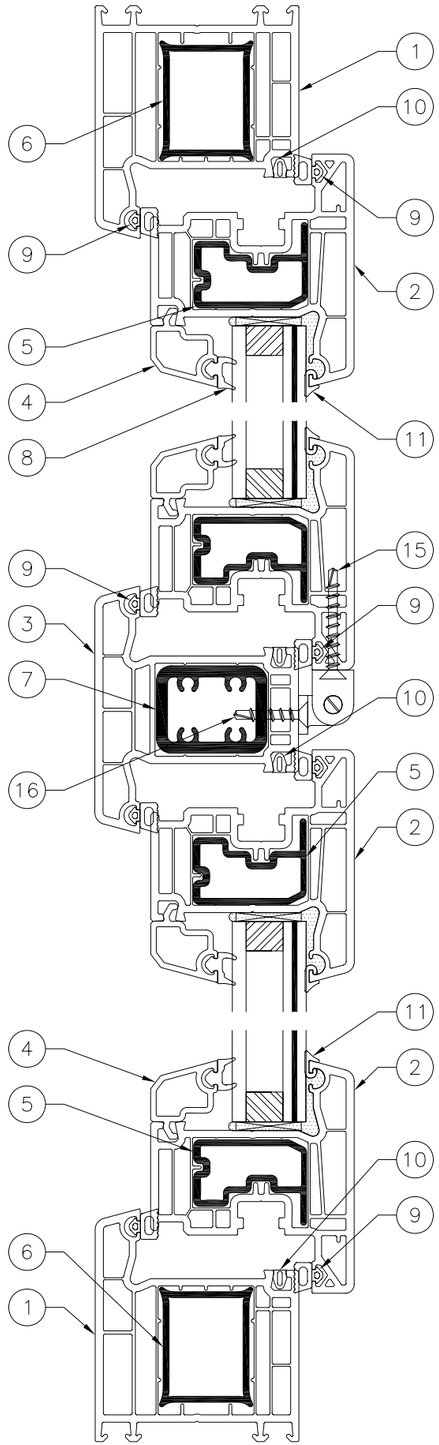

VERTICAL CROSS SECTION

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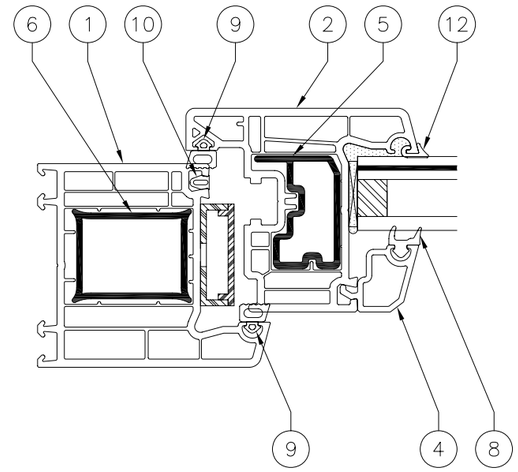

HORIZONTAL CROSS SECTION

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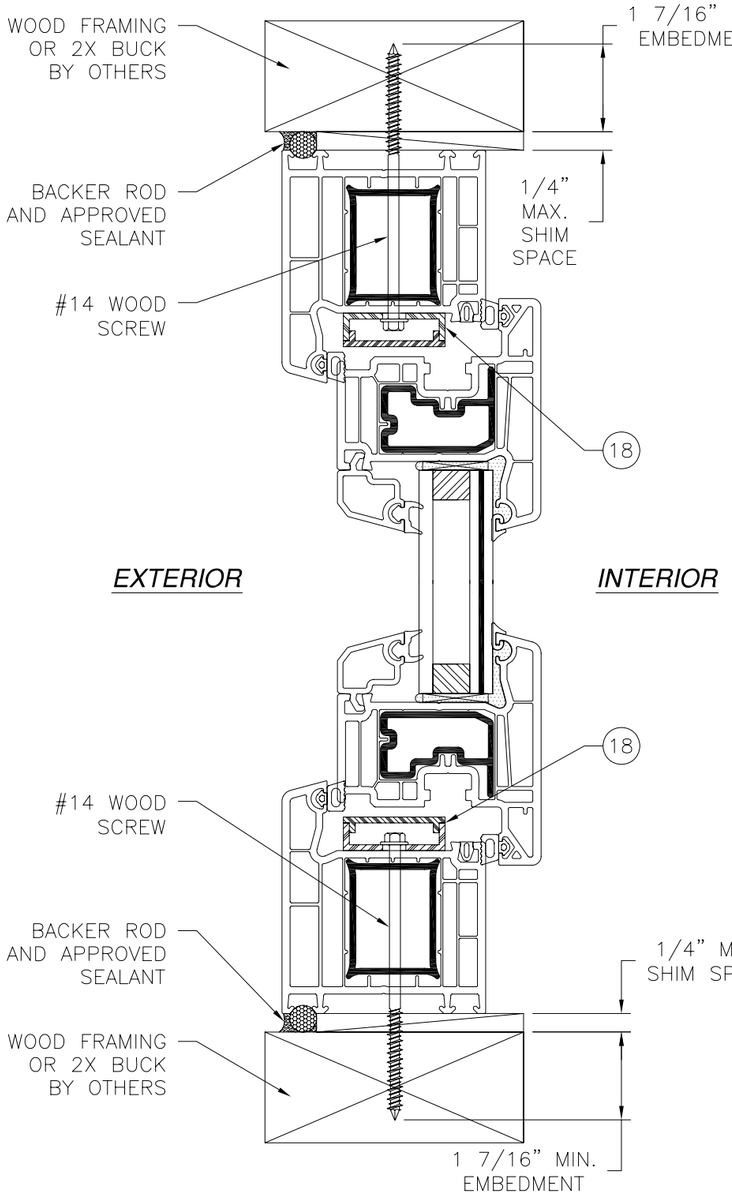
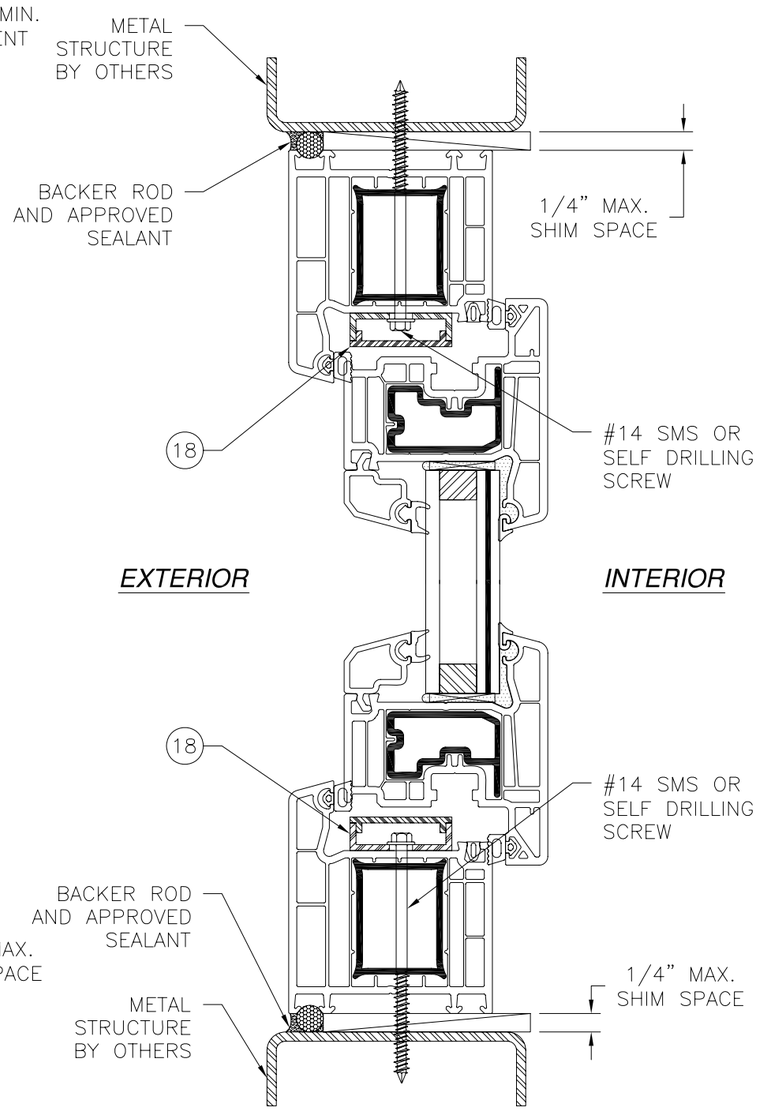
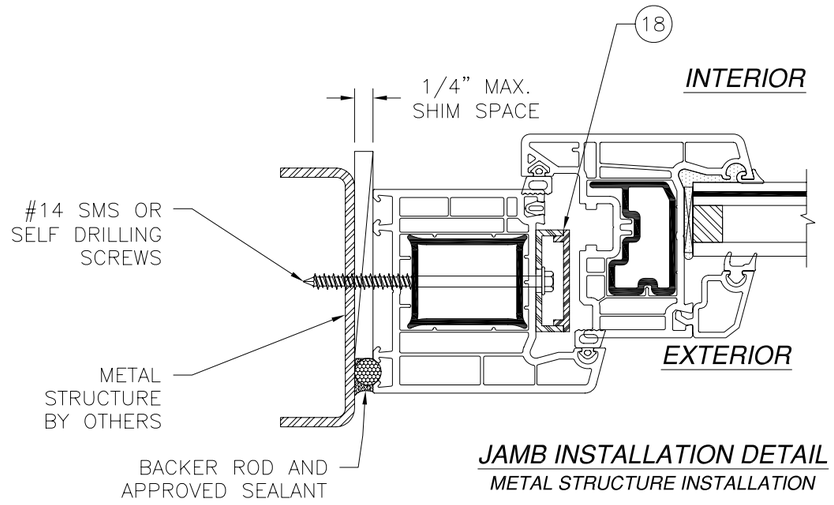


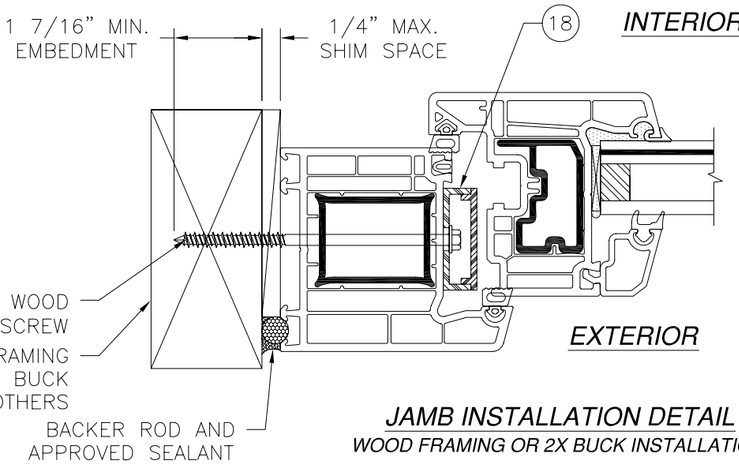
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTE: - SEALANT AND BACKER ROD MATERIAL AND JOINT DESIGN BY OTHERS.
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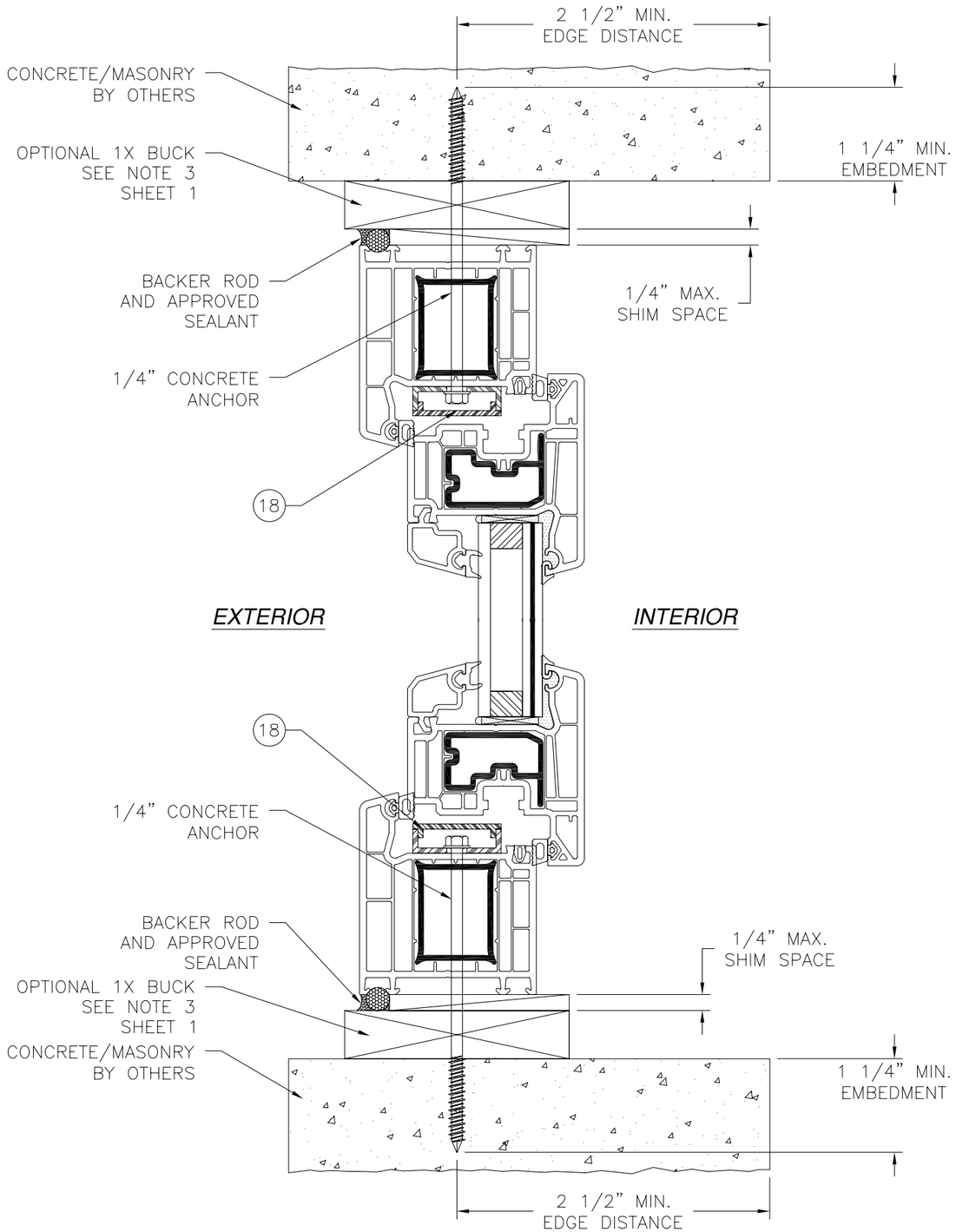
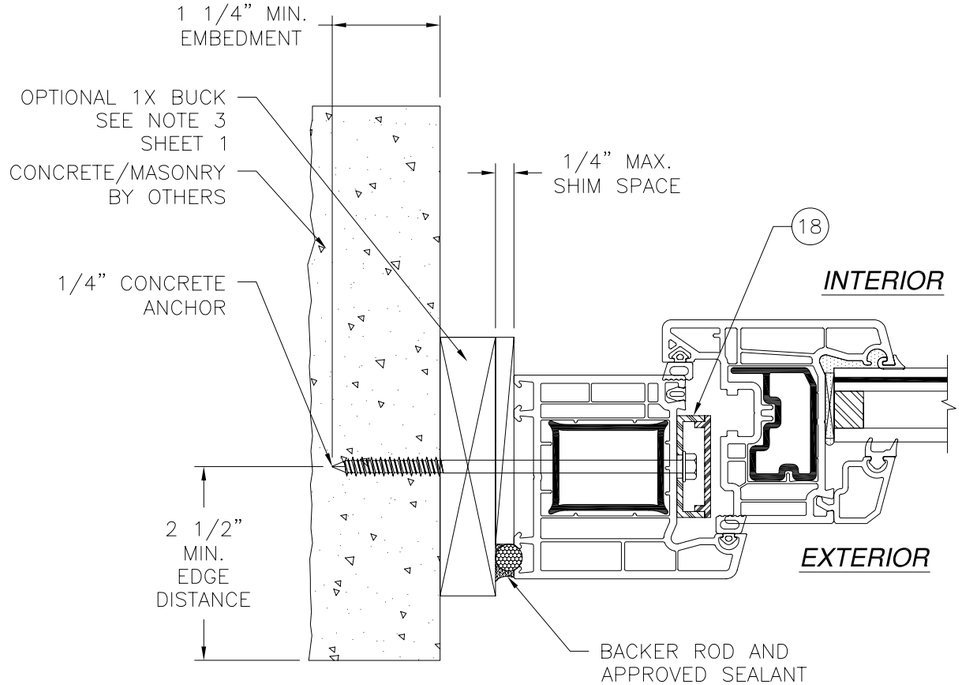


VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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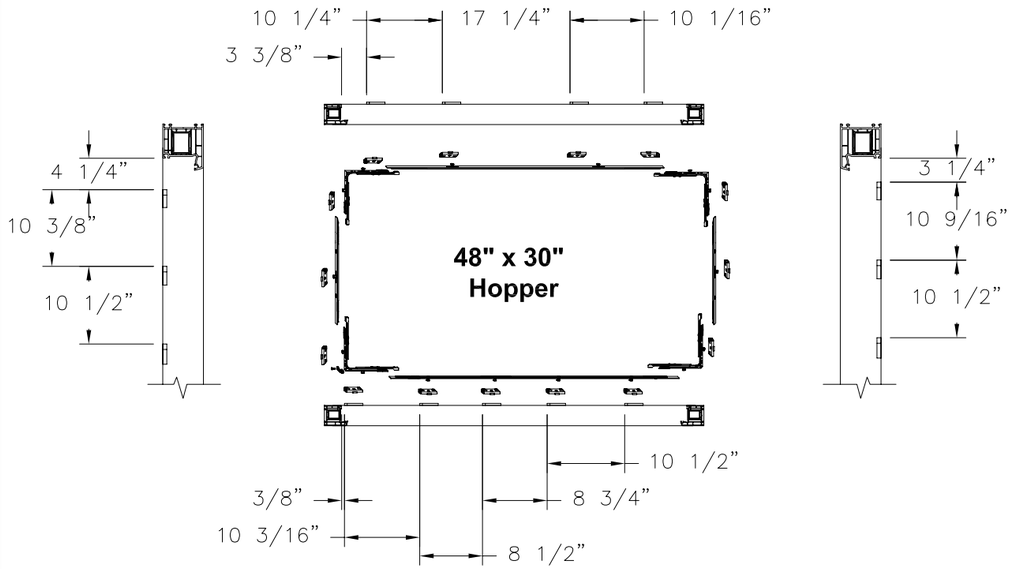
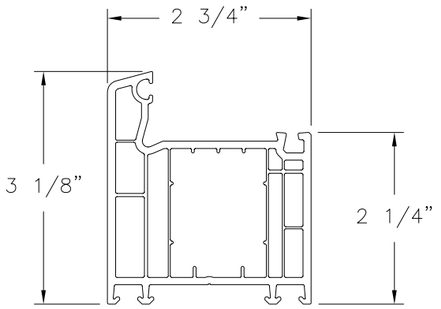
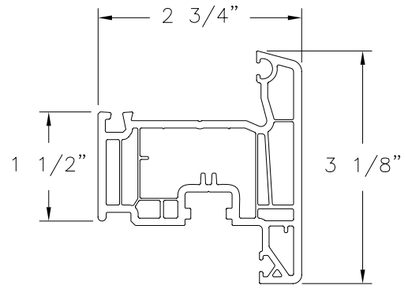
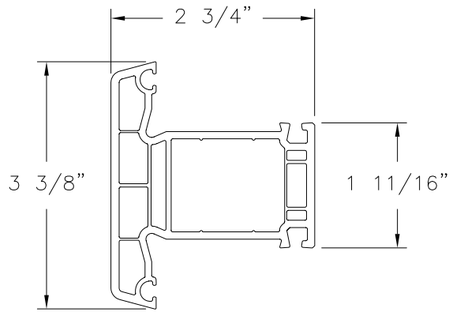




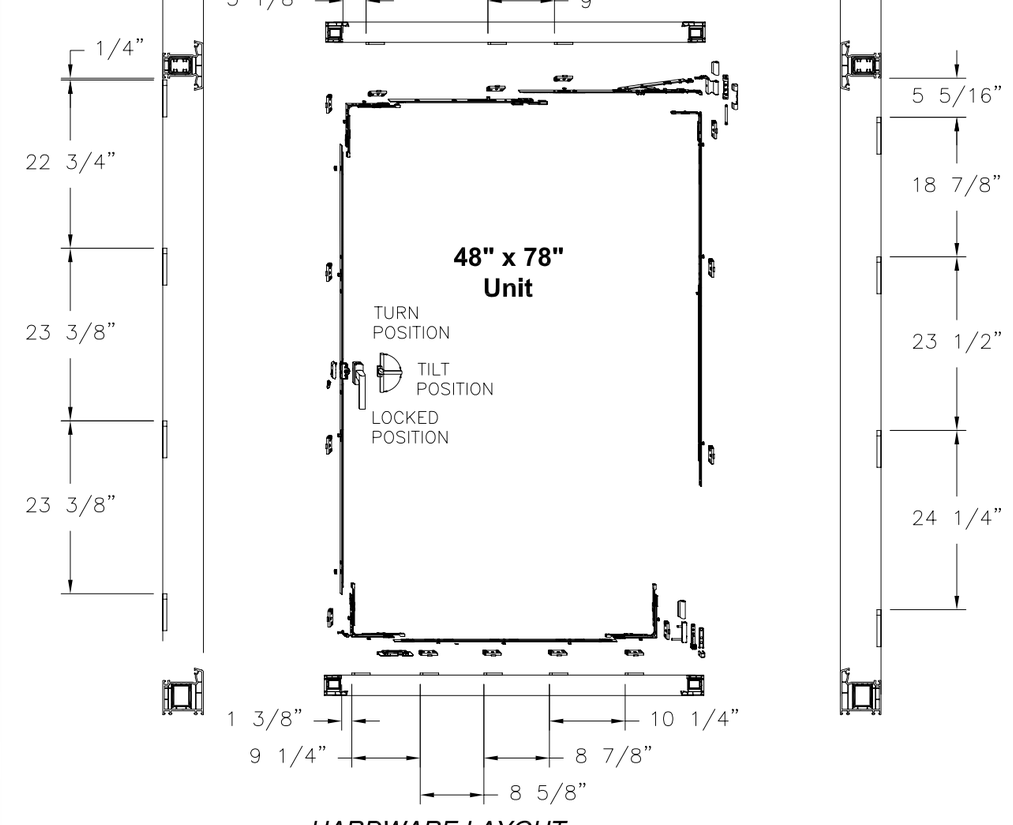
1 *FRAME*
RIGID PVC .110" THICK



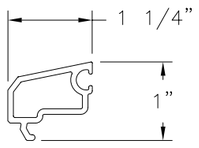
2 *SASH*
RIGID PVC .110" THICK



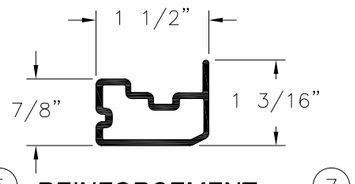
3 *T. MULLION*
RIGID PVC .110" THICK



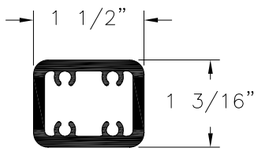
HARDWARE LAYOUT



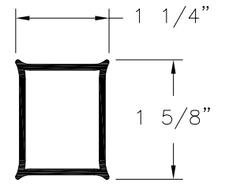
4 *GLAZING BEAD*
RIGID PVC .075" THICK



5 *REINFORCEMENT*
ALUMINUM 6005-T61 .080" THICK



7 *REINFORCEMENT*
ALUMINUM 6005-T61 .150" THICK



6 *REINFORCEMENT*
ALUMINUM 6005-T61 .080" THICK

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