

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
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.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. 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.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FINLESS FRAME INSTALLATION SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: EXTRUDED RIGID PVC.
12. UNITS MUST BE GLAZED PER ASTM E1300-04/09.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #6 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.
16. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
18. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #8 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.
19. ALL FASTENERS TO BE CORROSION RESISTANT.
20. 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 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .048" THICK MINIMUM

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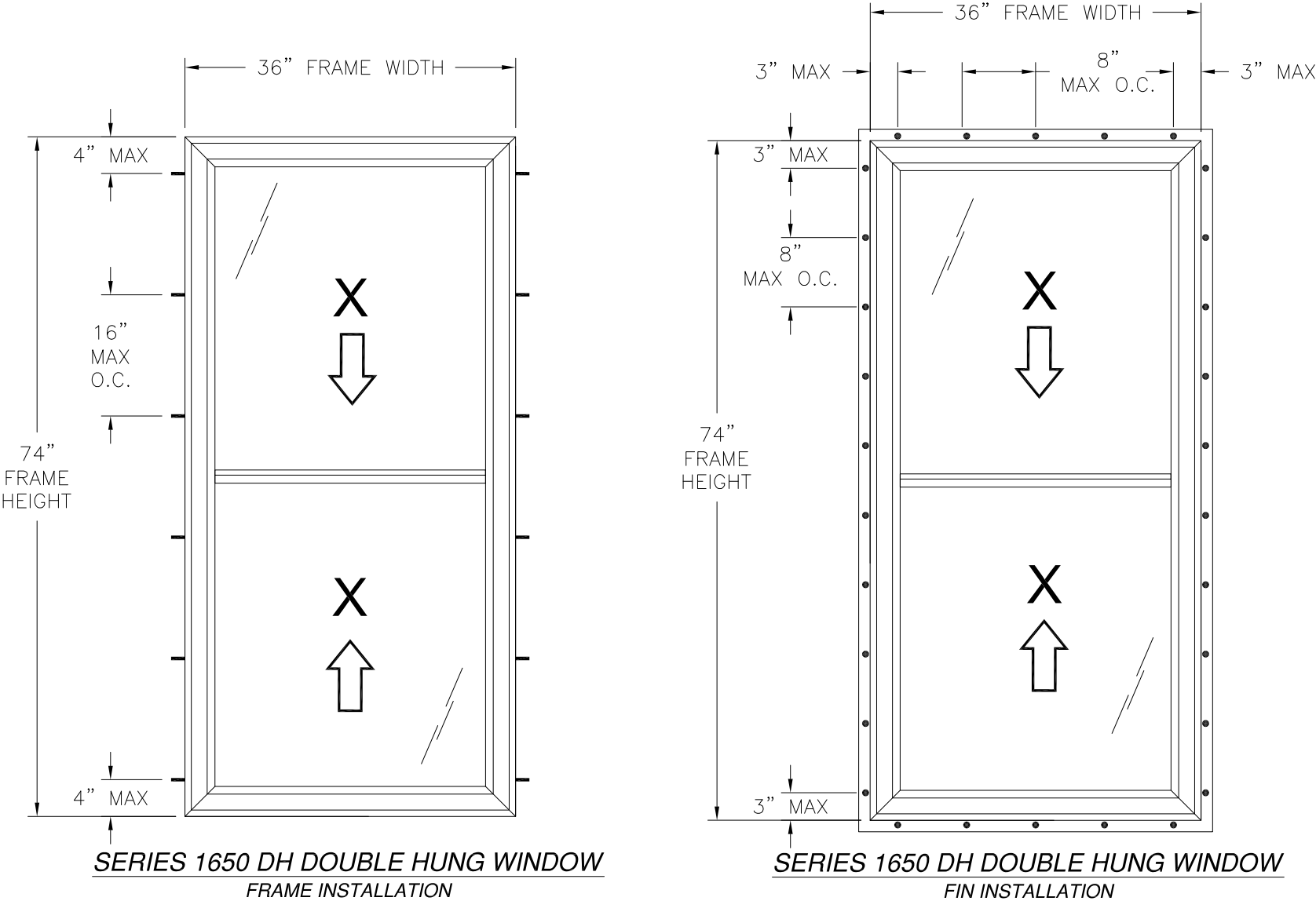
MI WINDOWS AND DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1650 DH PVC DOUBLE HUNG FIN & FINLESS 36" X 74" NON - IMPACT NOTES		
DRAWN: A.R.	DWG NO. 08-03442	REV -
SCALE NTS	DATE 05/15/19	SHEET 1 OF 10
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 05/21/2019



Luis R. Lomas P.E.
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- NOTES:
1. EXTERIOR SASH: 32" X 35 5/8"
 2. INTERIOR SASH: 32 1/2" X 36 1/4"
 3. D.L.O.: 29" x 32 3/4"

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

FOR AREAS WHERE WATER INFILTRATION
RESISTANCE IS NOT REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
+35.0/-50.0PSF	NONE

FOR AREAS WHERE WATER INFILTRATION
RESISTANCE IS REQUIRED

36" X 74" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 18.5 FT²

HARDWARE SCHEDULE	
A.	(2) RECESSED METAL CAM LOCK AT 6 7/8" FROM STILES ALONG TOP RAIL OF INTERIOR SASH
B.	(2 PER SASH) METAL PIVOT BAR AT CORNERS OF STILES AND BOTTOM RAILS
C.	(2 PER SASH) RECESSED PLASTIC TILT LATCH AT CORNERS OF STILES AND TOP RAILS
D.	(2 PER SASH) SPIRAL BALANCE AT FRAME JAMBS
E.	(2) PLASTIC RECESSED NIGHT LATCH AT 5 3/4" FROM BOTTOM RAIL ALONG STILES OF EXTERIOR SASH
F.	STEEL REINFORCEMENT (RF-104S-020) AT TOP RAIL IN INTERIOR SASH
G.	ALUMINUM REINFORCEMENT (M-1911) AT BOTTOM RAIL OF EXTERIOR SASH
H.	FIBERGLASS REINFORCEMENT (MS400320) AT STILES ON EXTERIOR SASH

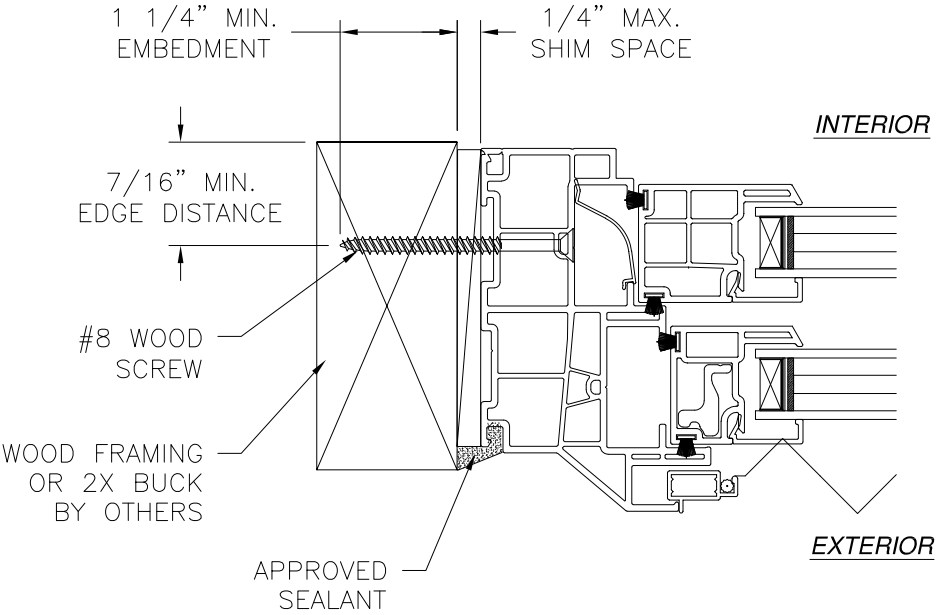
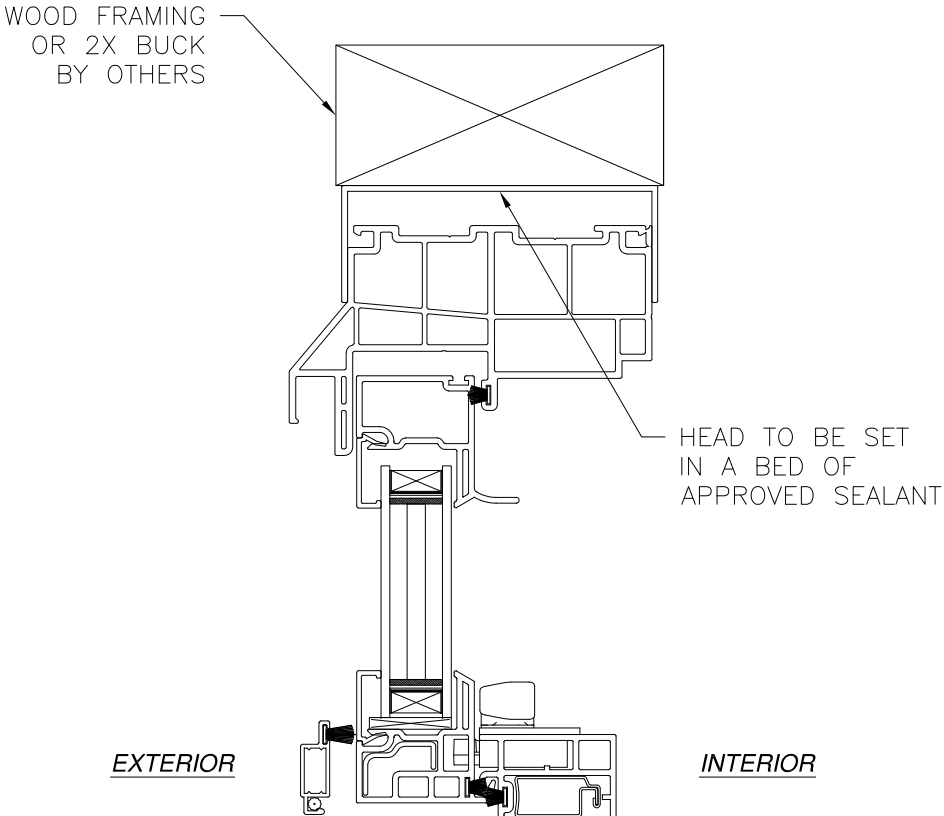
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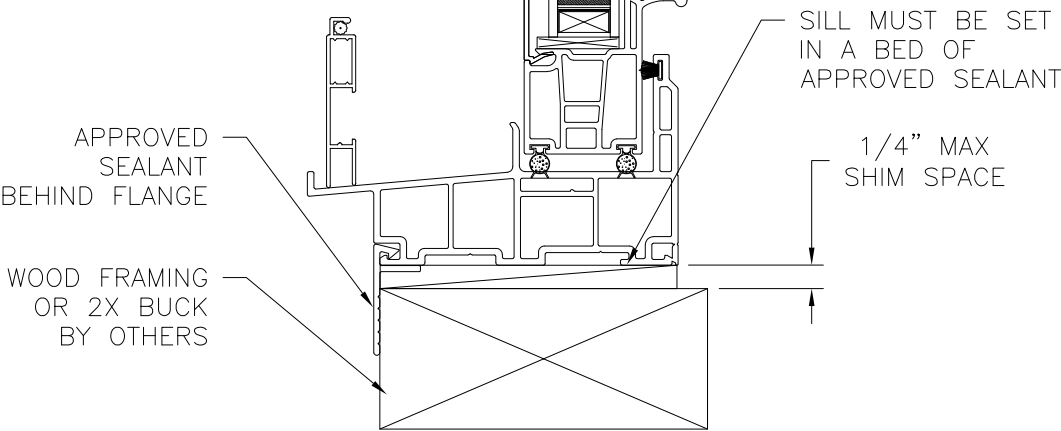
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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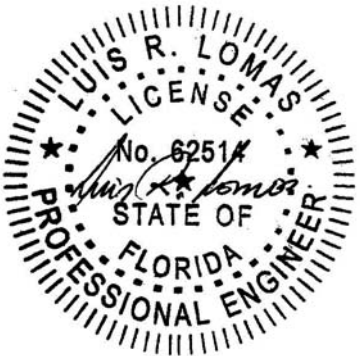
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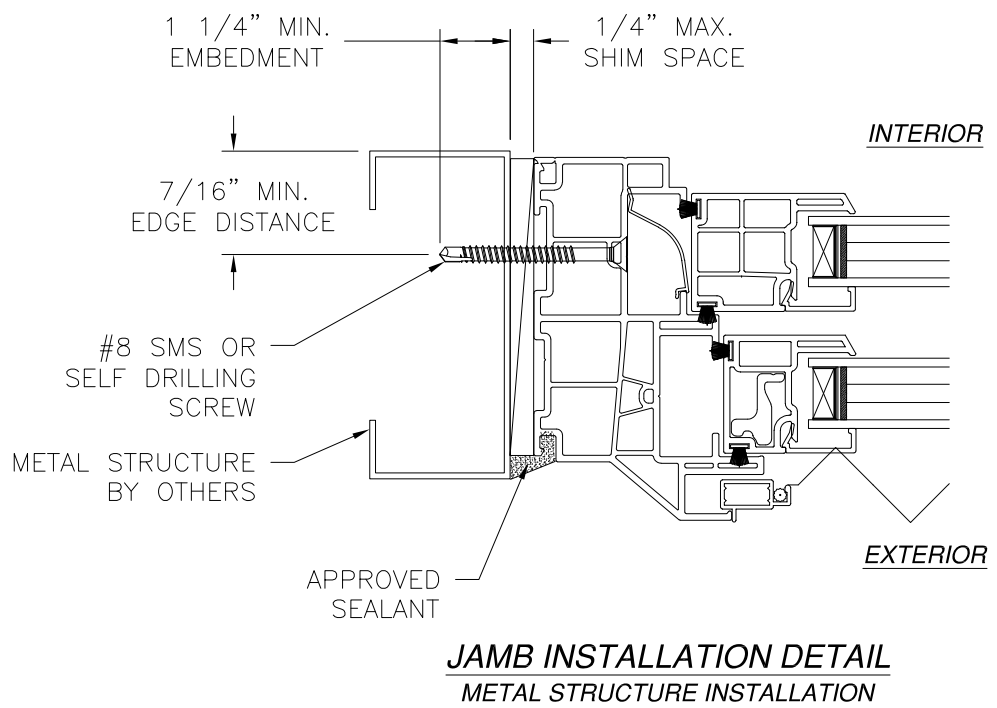
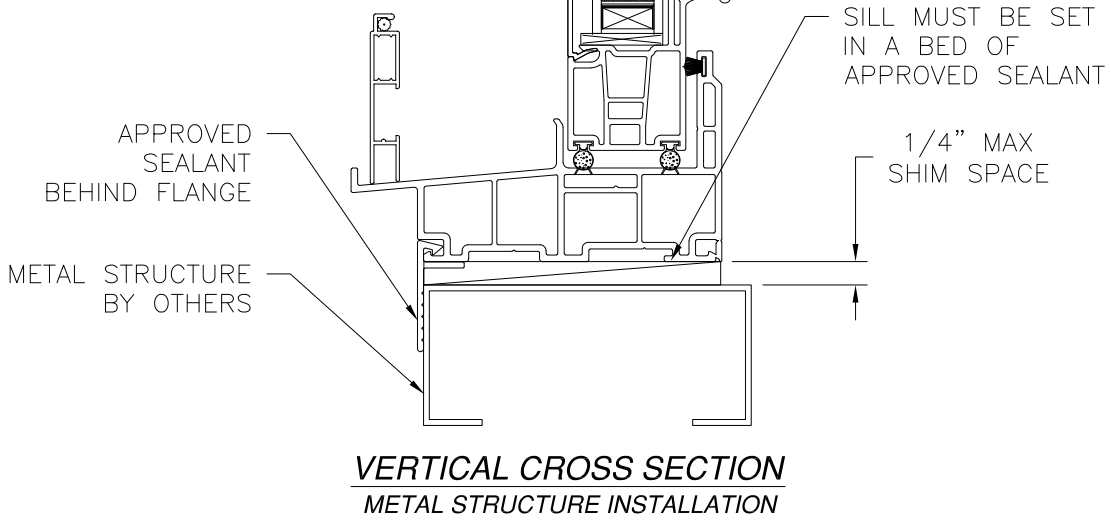
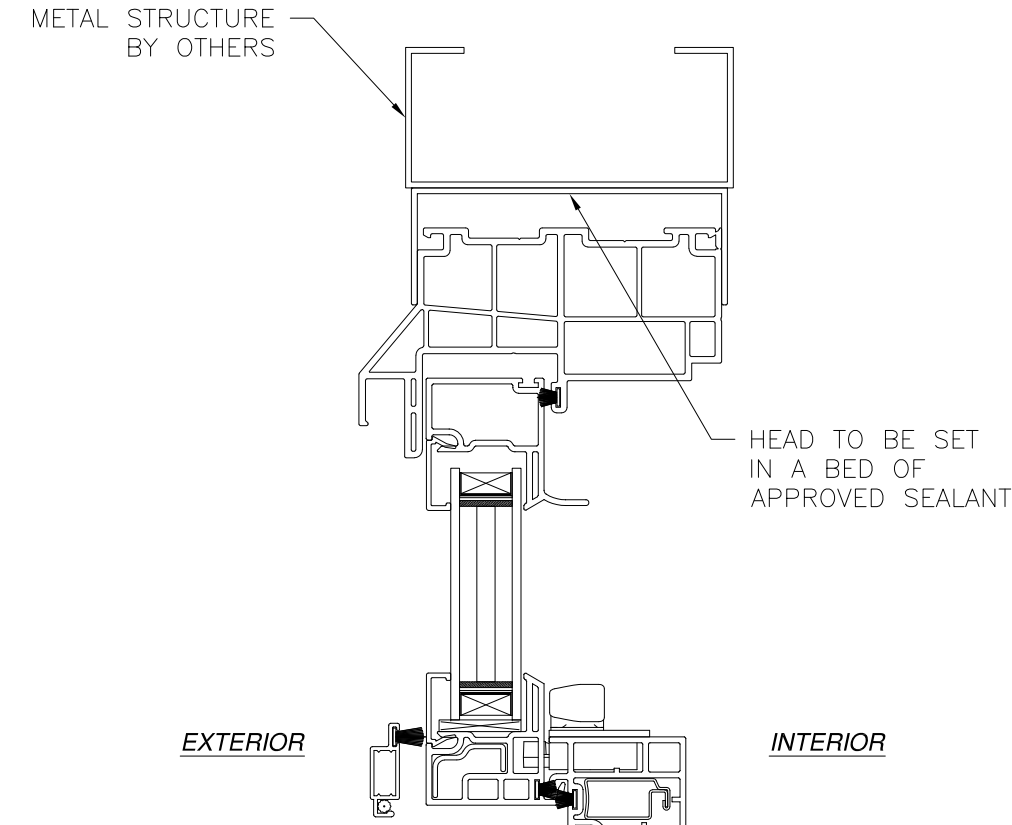
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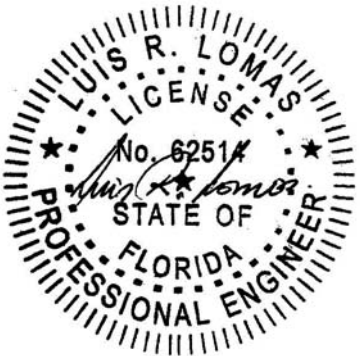
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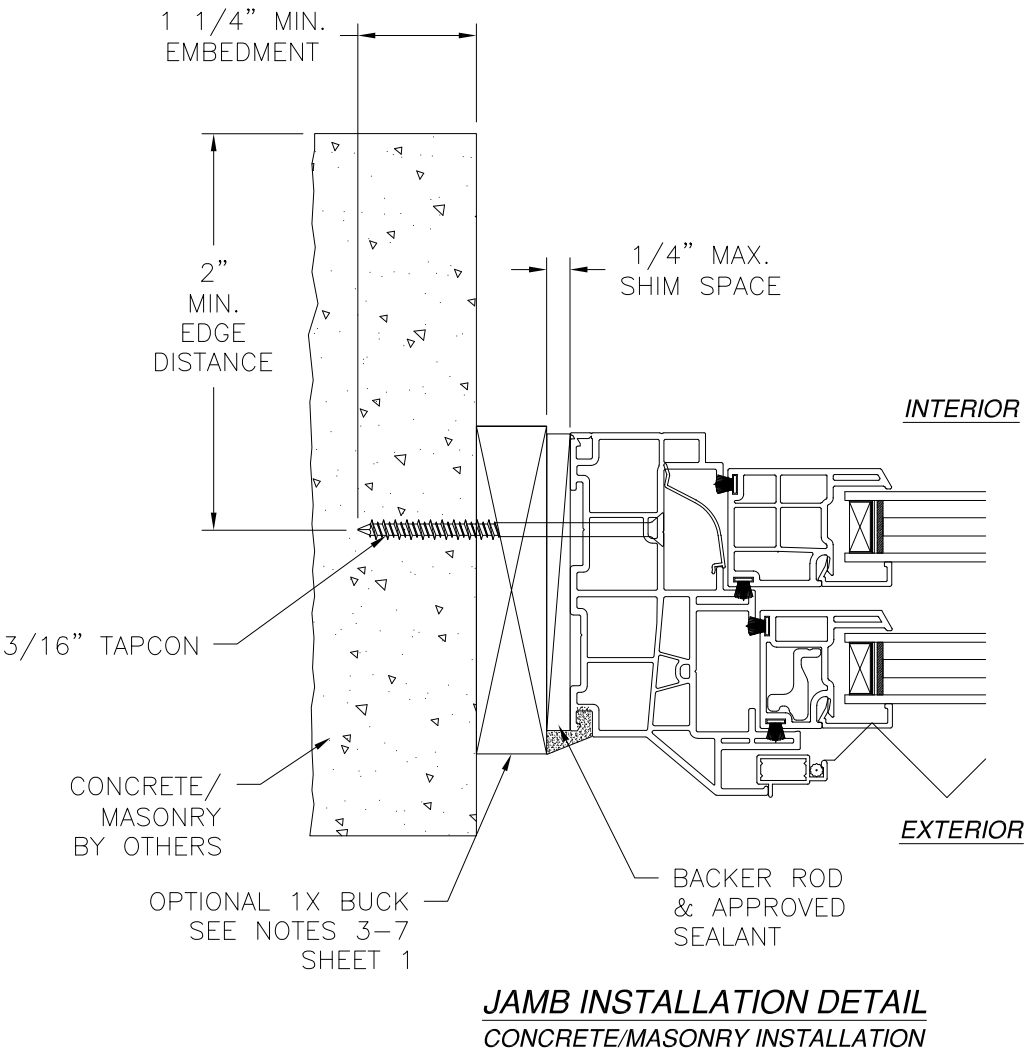
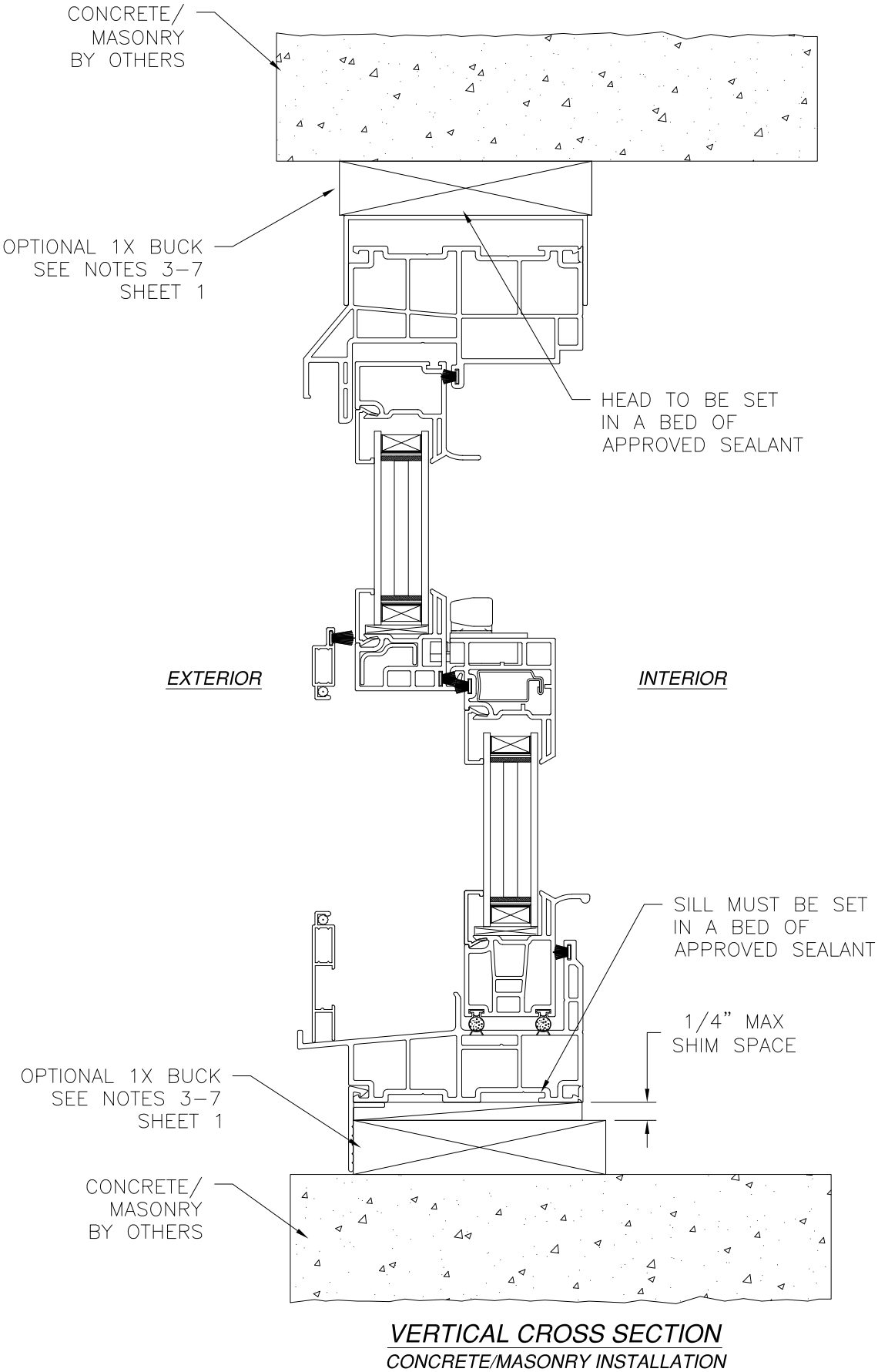
SHEET
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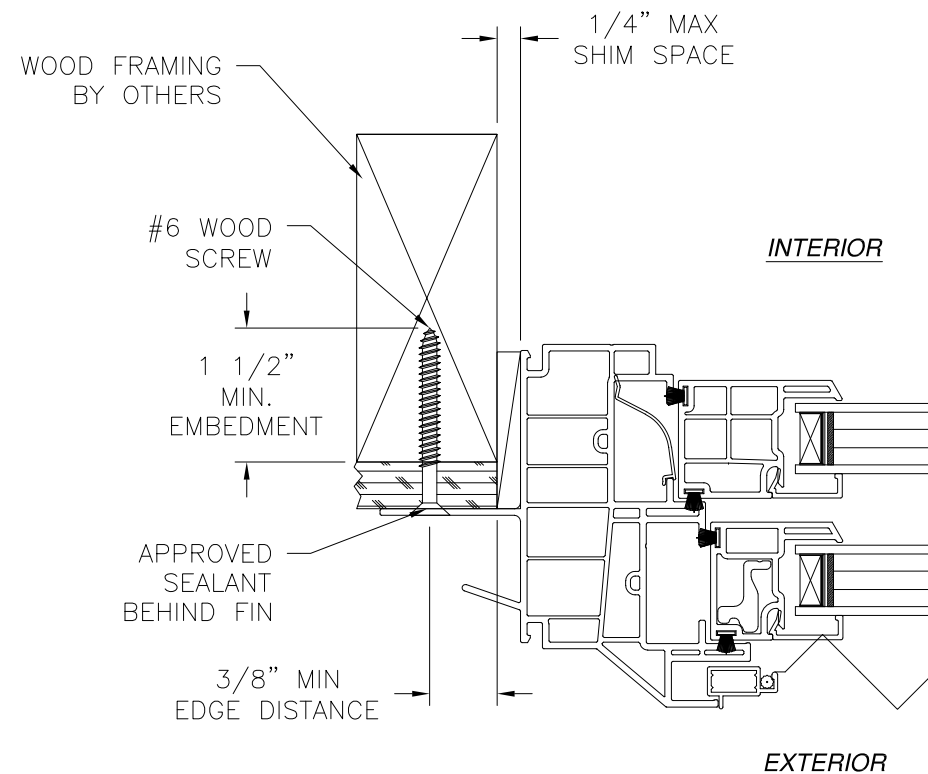
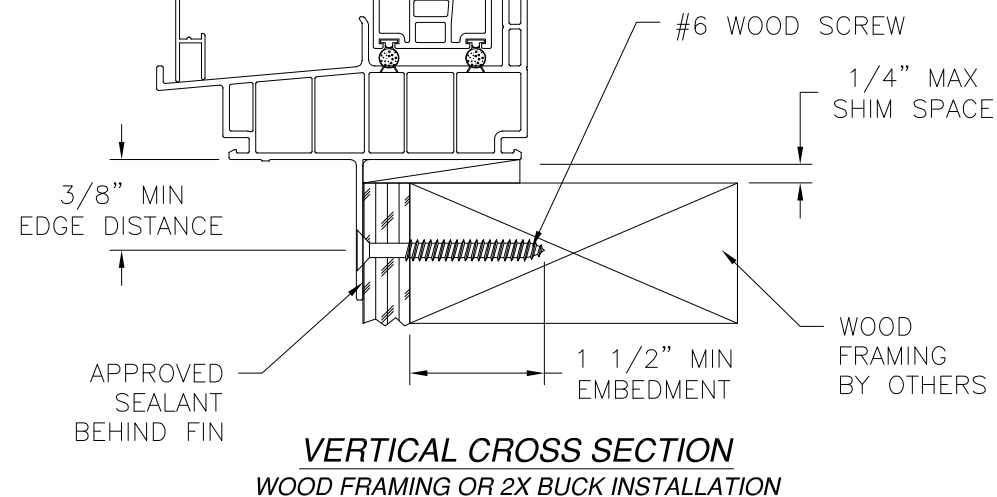
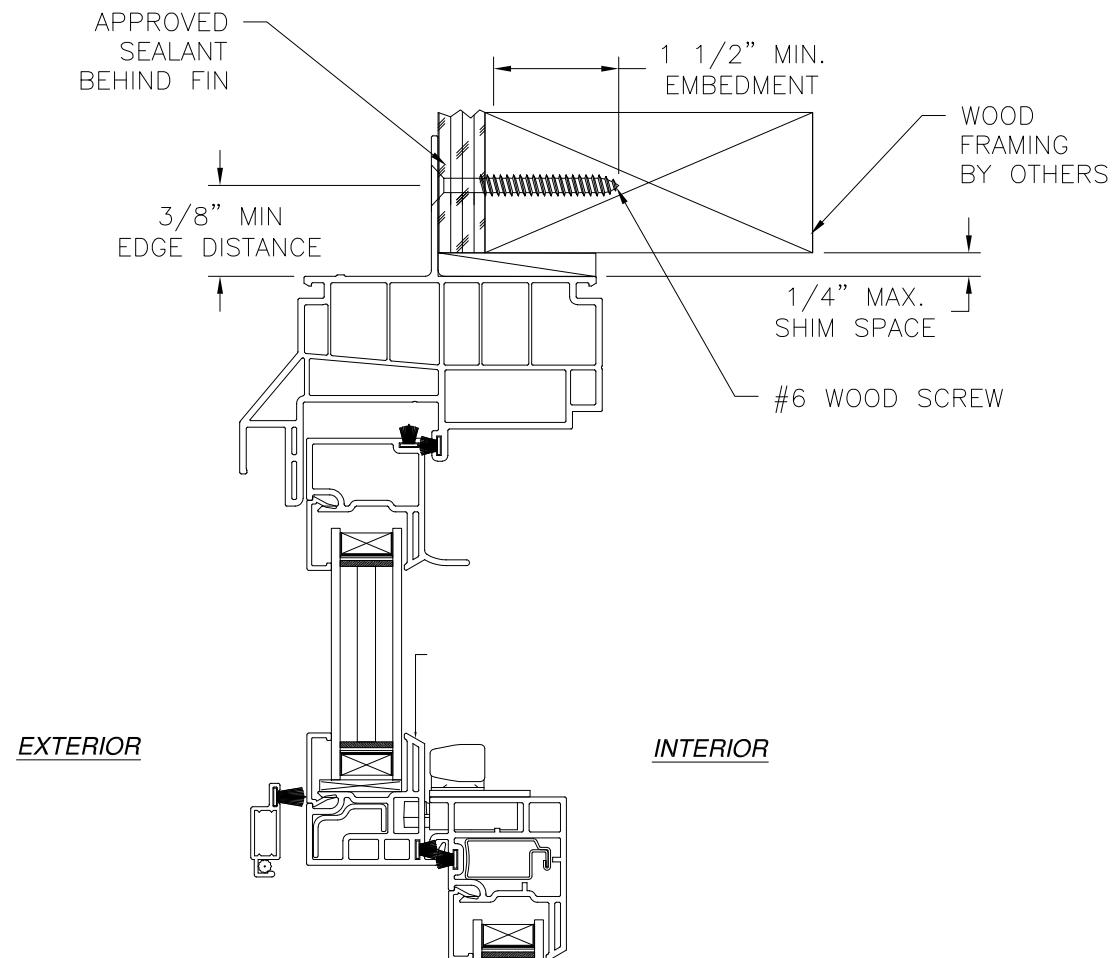
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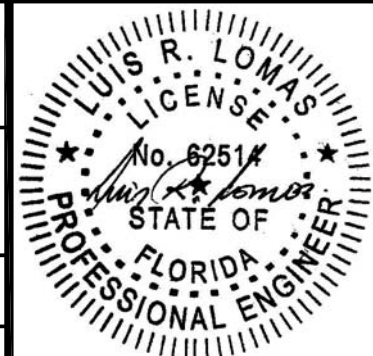


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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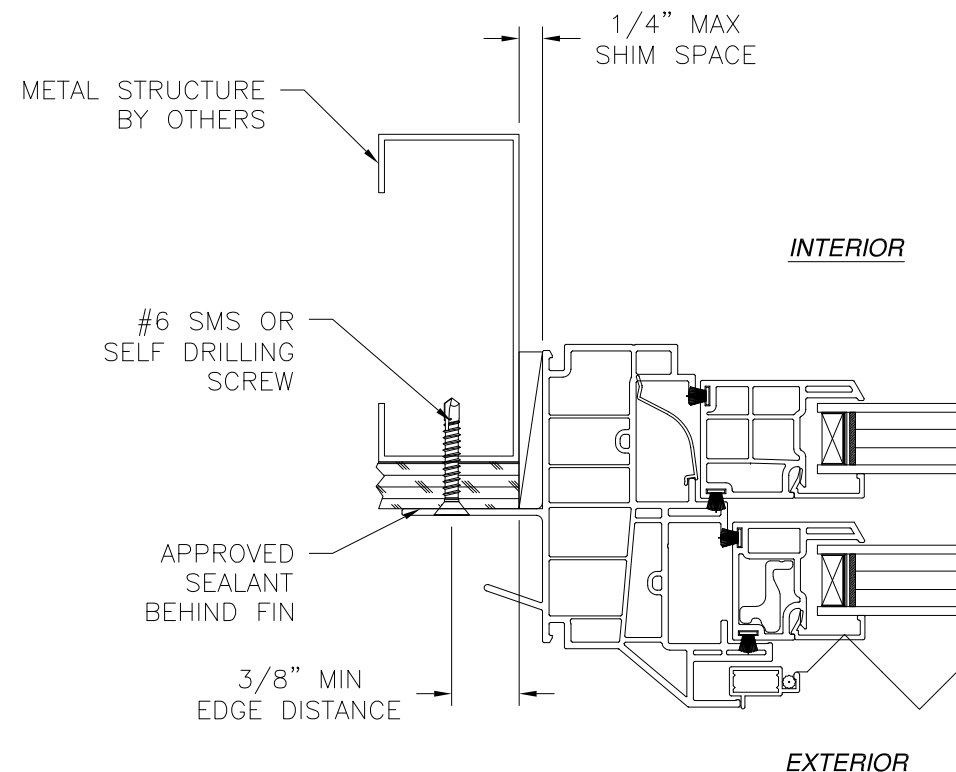
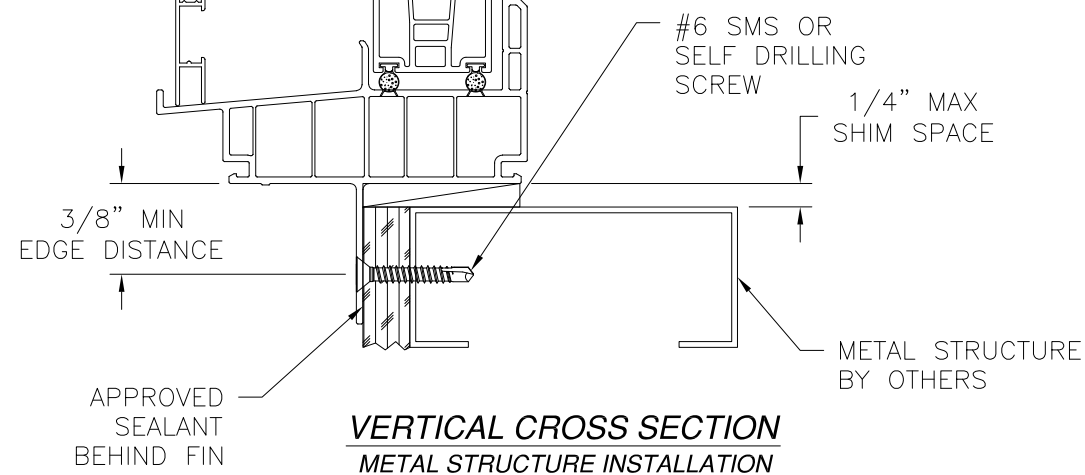
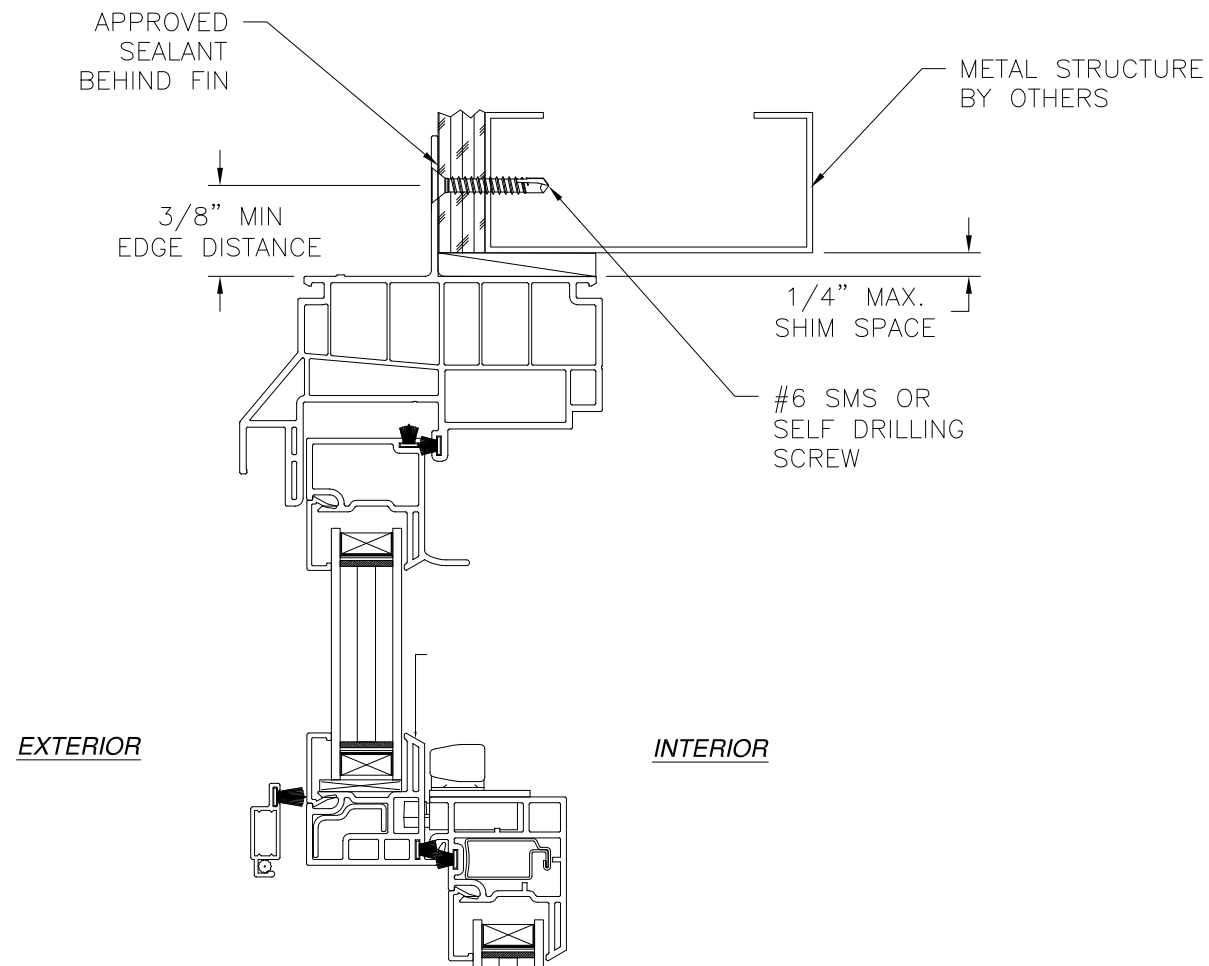
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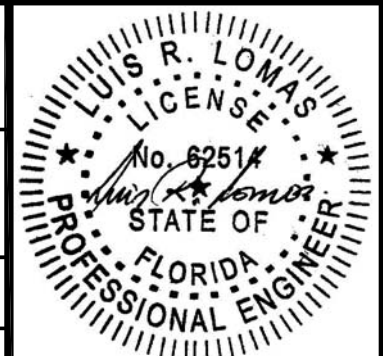
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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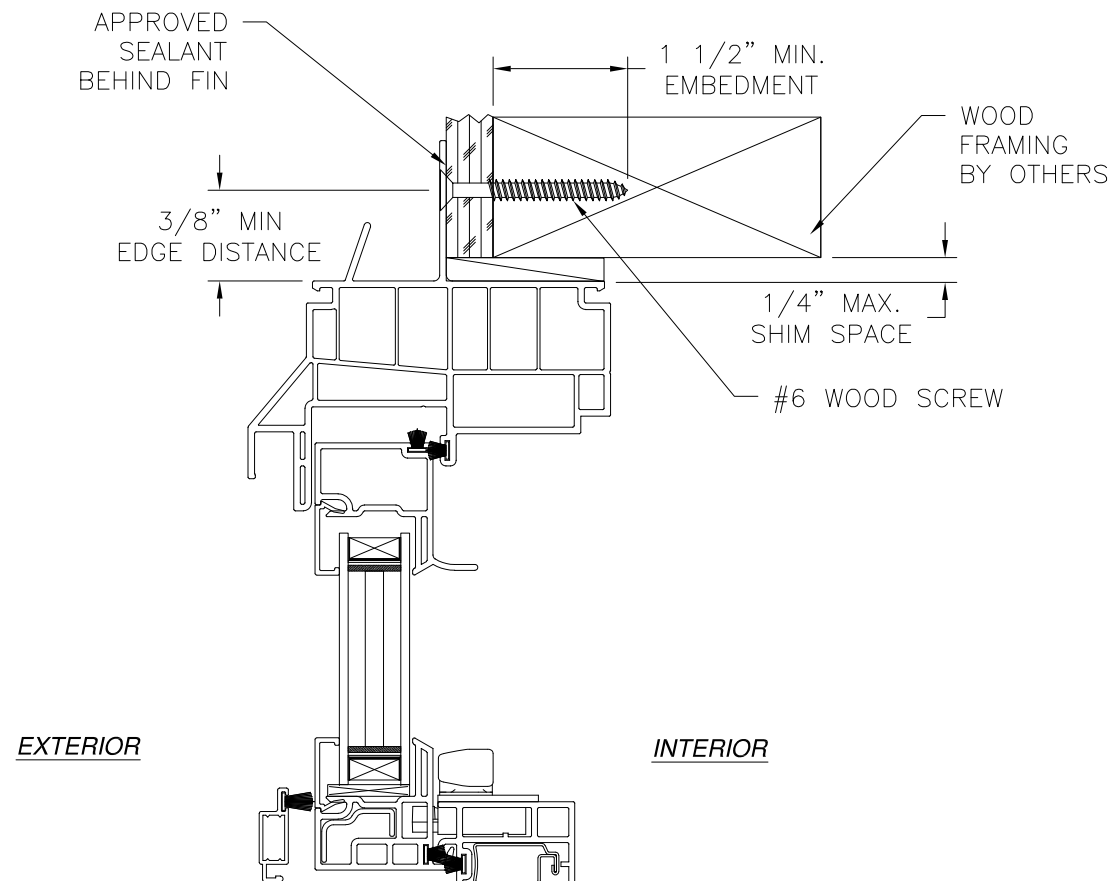
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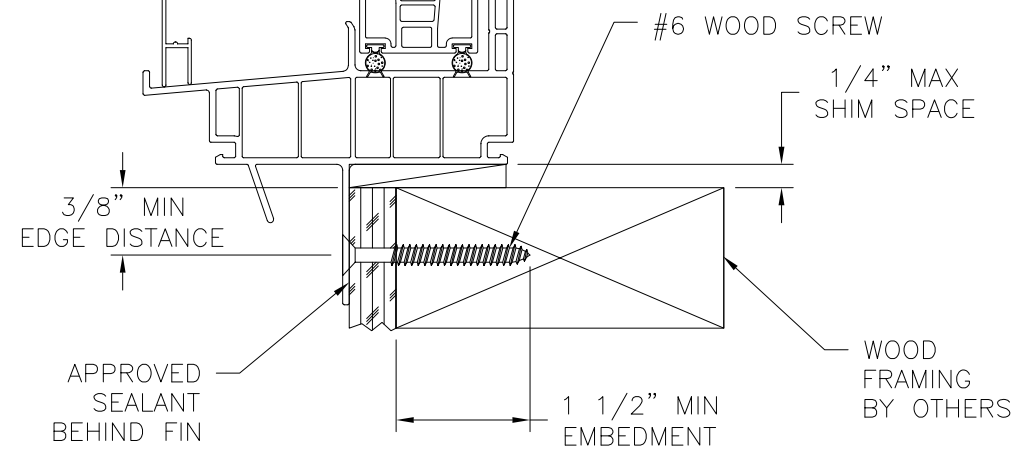
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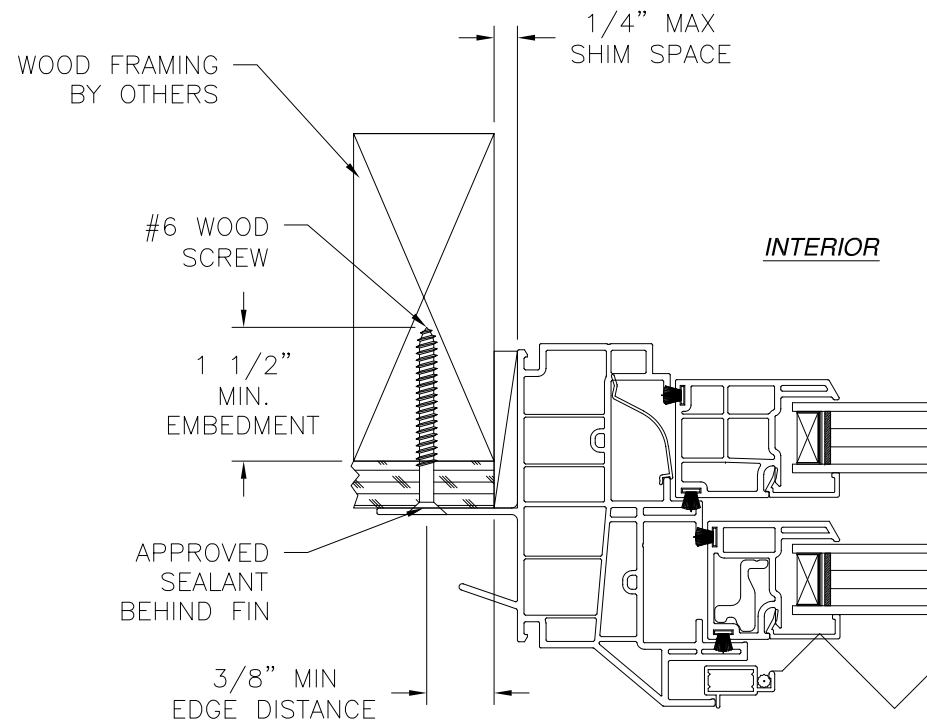


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



INTERIOR

EXTERIOR

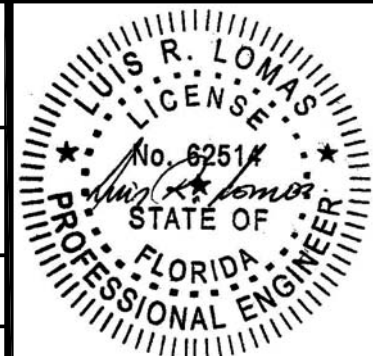
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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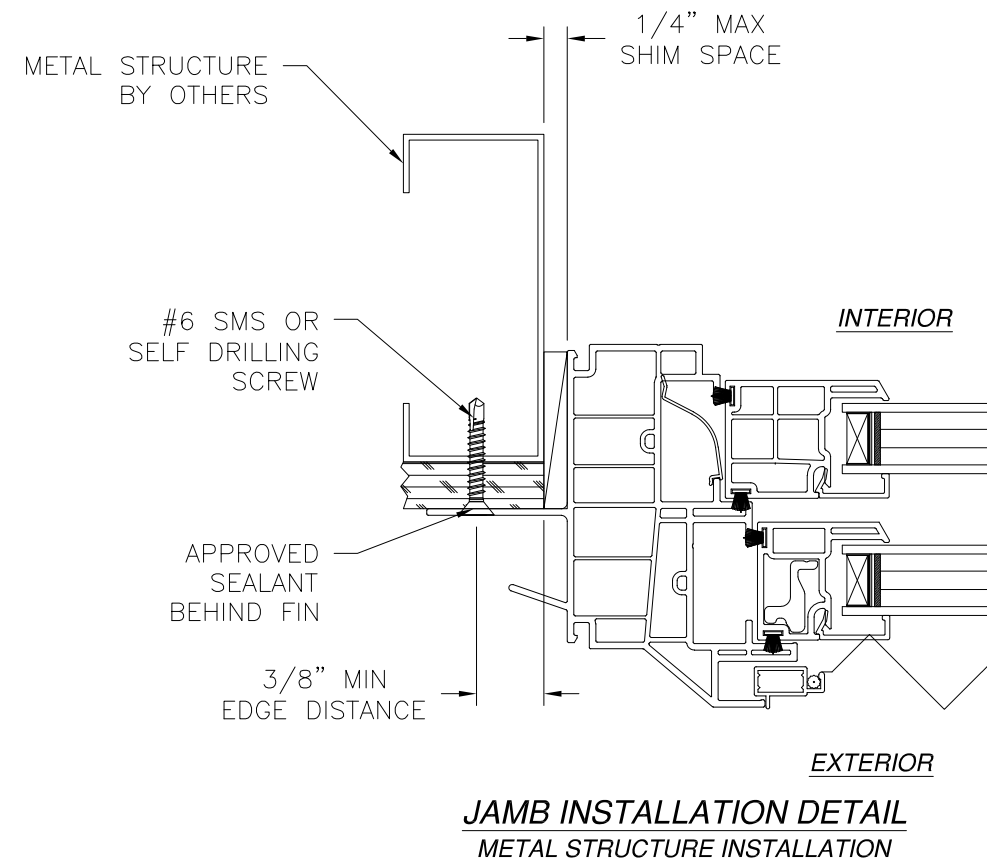
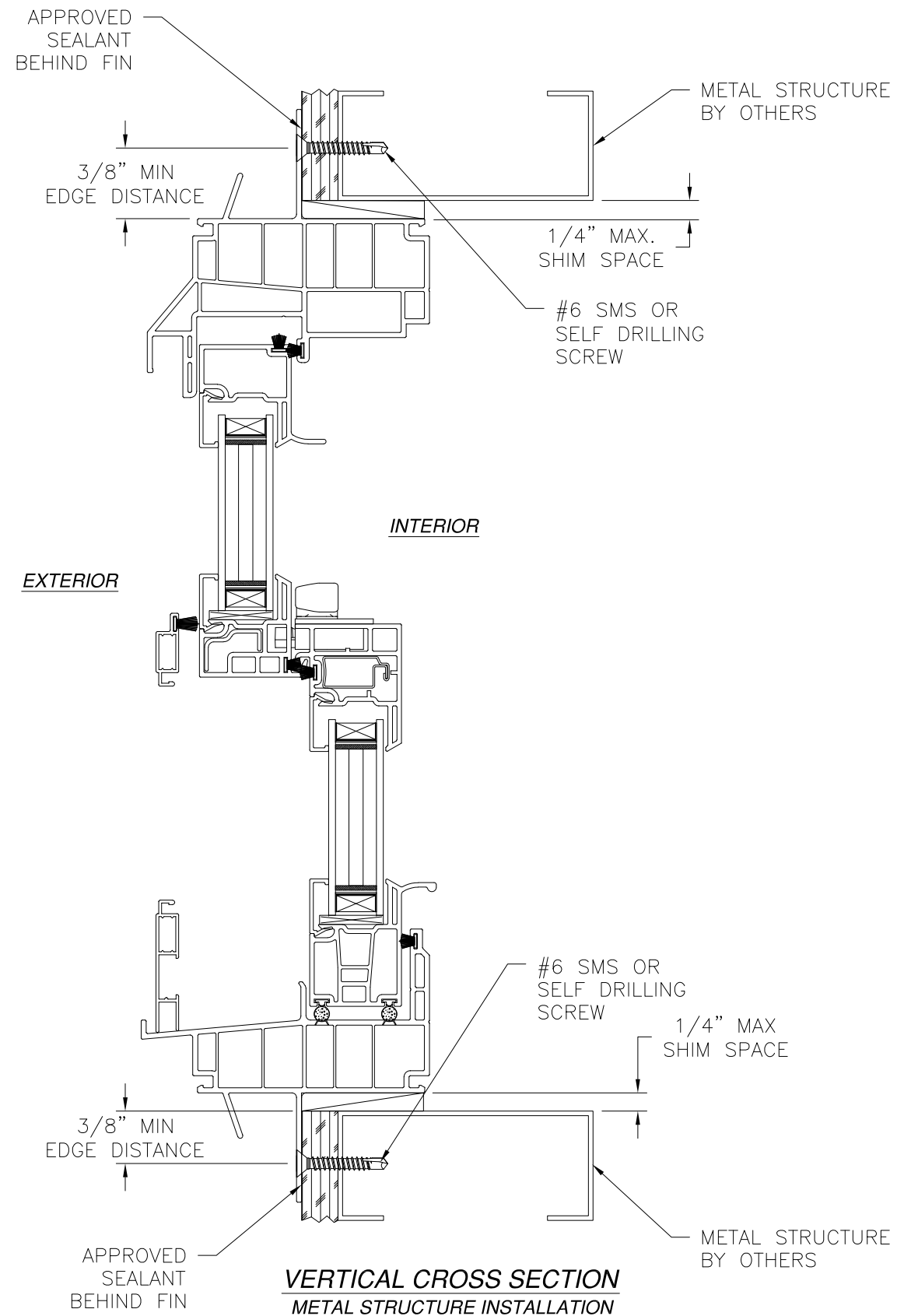
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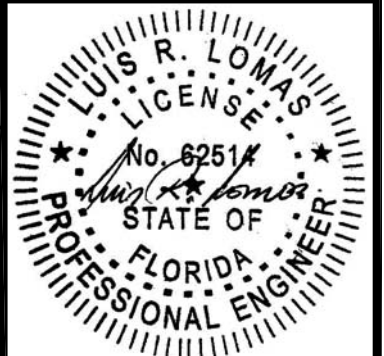
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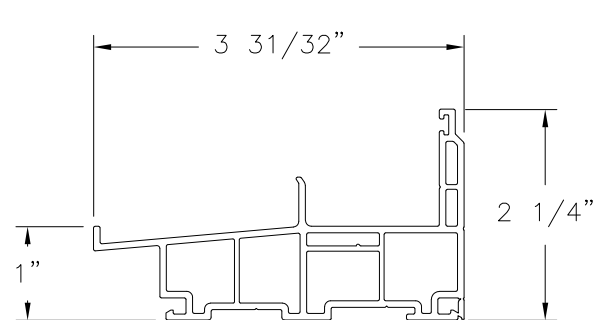
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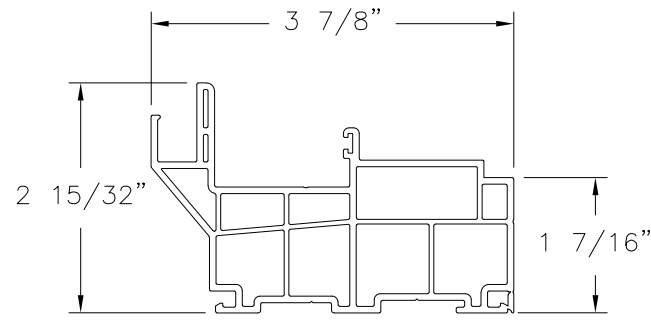
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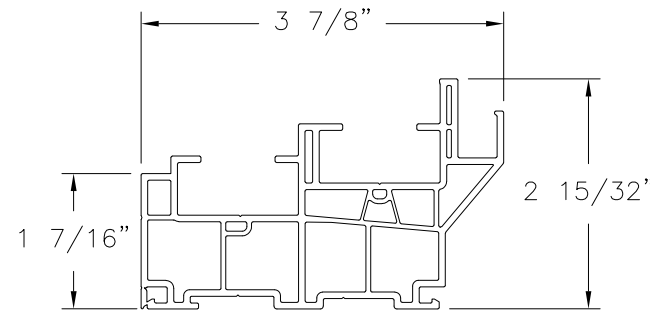
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SILL FRAME
RIGID PVC (V-1039)

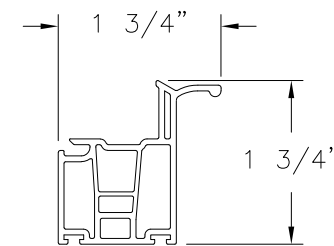


HEAD FRAME
RIGID PVC (V-1029)

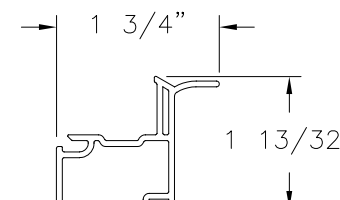


JAMB FRAME
RIGID PVC (V-1034)

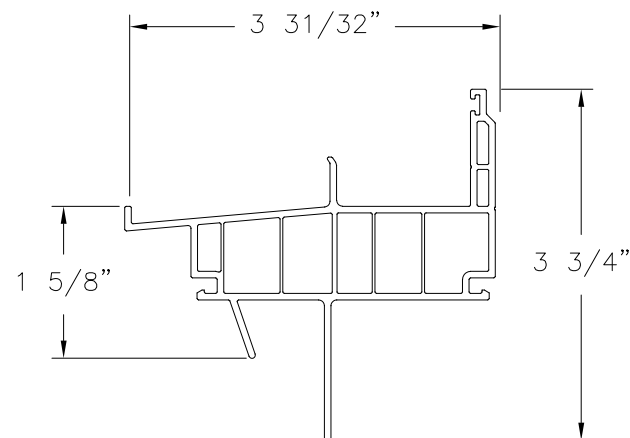
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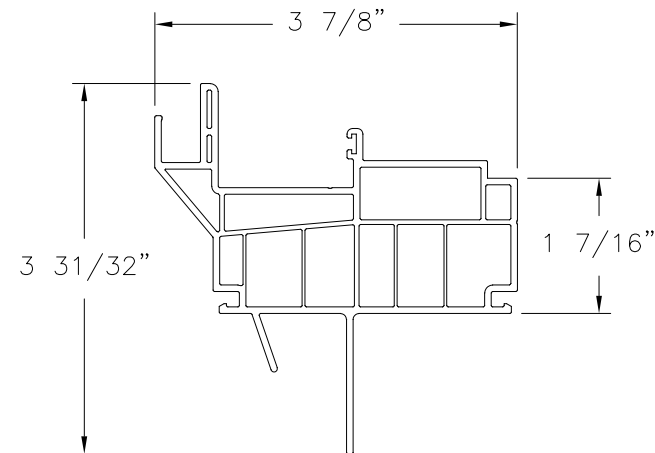
BOTTOM SASH LIFT RAIL
RIGID PVC (V-1005)



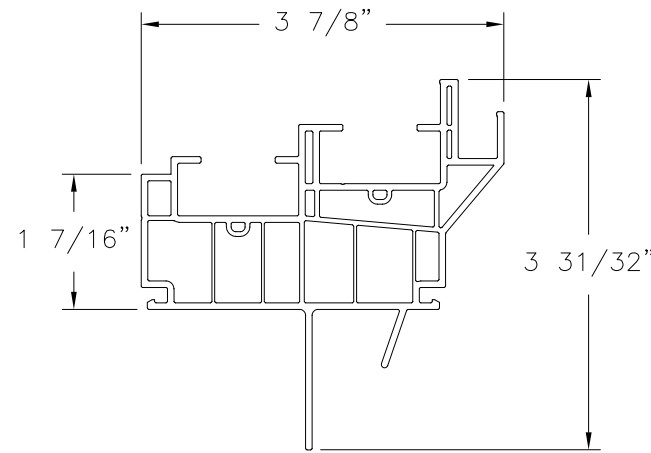
TOP SASH LIFT RAIL
RIGID PVC (V-673)



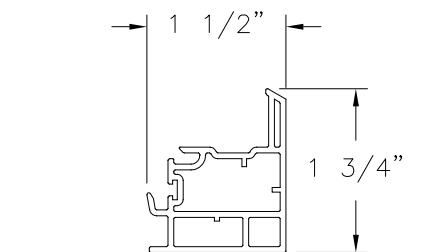
**SILL FRAME WITH J-CHANNEL
FIN INSTALLATION**
RIGID PVC (V-809)



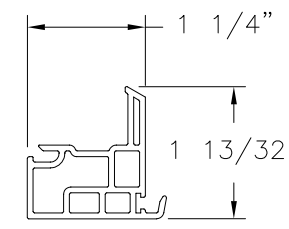
**HEAD FRAME WITH J-CHANNEL
FIN INSTALLATION**
RIGID PVC (V-810)



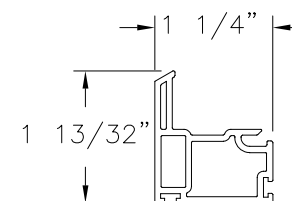
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FIN INSTALLATION**
RIGID PVC (V-811)



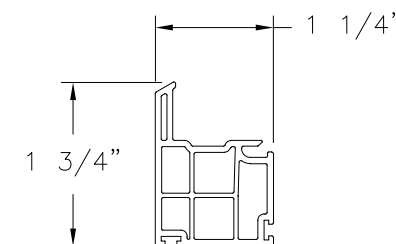
BOTTOM SASH TOP RAIL
RIGID PVC (V-675)



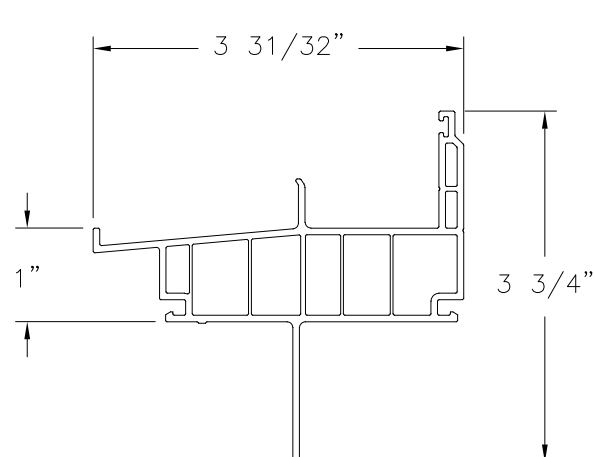
TOP SASH BOTTOM RAIL
RIGID PVC (V-674)



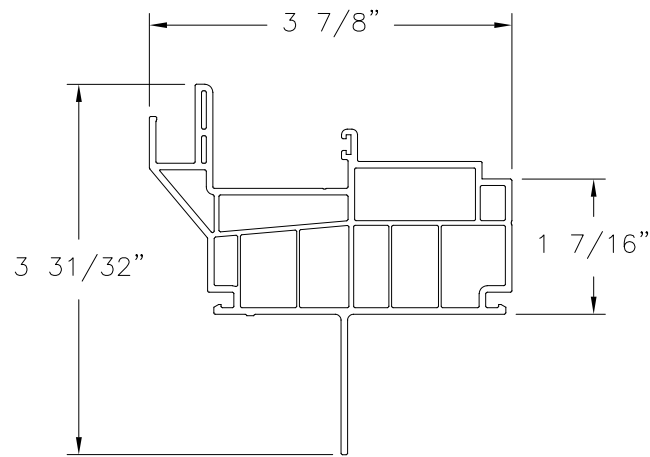
TOP SASH STILE
RIGID PVC (V-671)



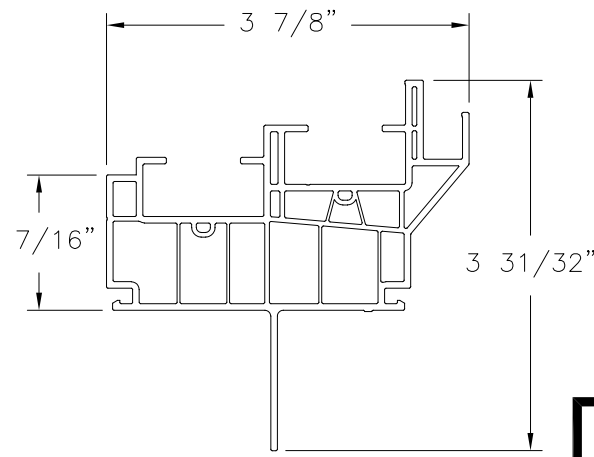
SASH STILE/HORIZONTAL RAIL
RIGID PVC (V-1004)



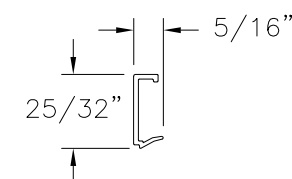
**SILL FRAME WITHOUT J-CHANNEL
FIN INSTALLATION**
RIGID PVC (V-812)



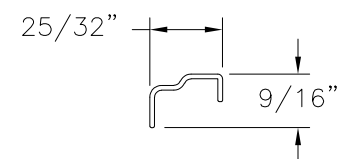
**HEAD FRAME WITHOUT J-CHANNEL
FIN INSTALLATION**
RIGID PVC (V-813)



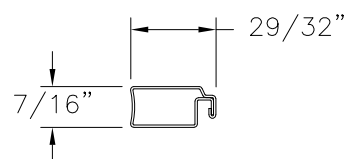
**JAMB FRAME WITHOUT J-CHANNEL
FIN INSTALLATION**
RIGID PVC (V-814)



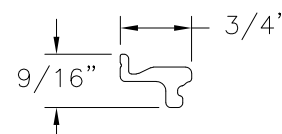
GLAZING BEAD
RIGID PVC (V-904)



KEEPER RAIL LINER
ALUMINUM 6063-T5, THICKNESS .050" (M-1911)



MEETING RAIL LINER
STEEL, THICKNESS .019" (RF-104S-020)



MEETING RAIL LINER
FIBERGLASS (MS400320)

MI WINDOWS AND DOORS, LLC.
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 1650 DH PVC DOUBLE HUNG FIN & FINLESS
36" X 74" NON - IMPACT
COMPONENTS

DRAWN: A.R.	DWG NO. 08-03442	REV -
SCALE NTS	DATE 05/15/19	SHEET 10 OF 10

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SIGNED: 05/21/2019



Luis R. Lomas P.E.
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