

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED NEW EXTRUSIONS	01/20/2020	R.L.
B	REVISED ANCHORS	03/17/2021	R.L.

- 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 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, SEE SHEET 2 FOR GLAZING DETAILS.
 13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT 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 A 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 1/8” THICK MINIMUM
21. GEOMETRIC SHAPES ARE ALSO APPROVED. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED INSCRIBED DIMENSIONS OF APPROVED RECTANGULAR ASSEMBLY SHOWN IN SHEET 2.

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1	NOTES
2 – 3	ELEVATIONS
4 – 14	INSTALLATION DETAILS
15	COMPONENTS

MI WINDOWS & DOORS, LLC.
650 WEST MARKET STREET
GRATZ, PA 17030–0370

SERIES 1620 SINGLE HUNG WINDOW REINFORCED
38” X 75” – IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08–03454

REV
B

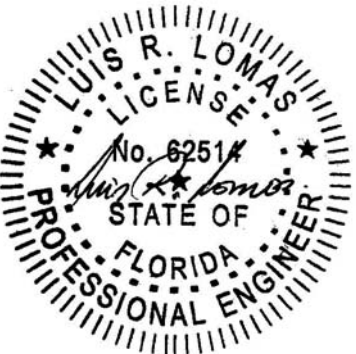
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DATE 06/13/19

SHEET 1 OF 15

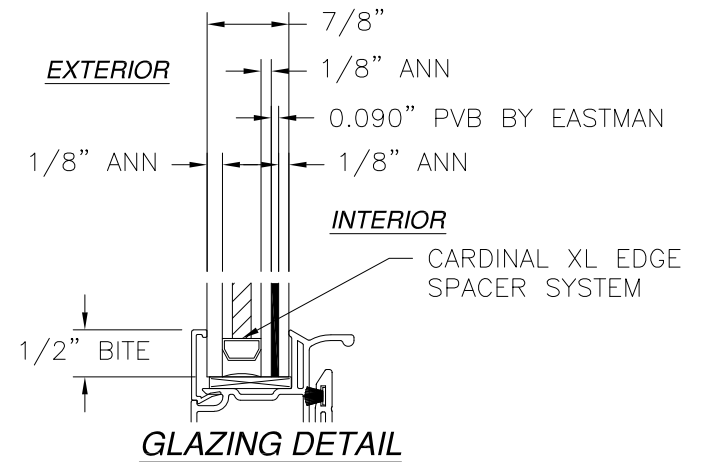
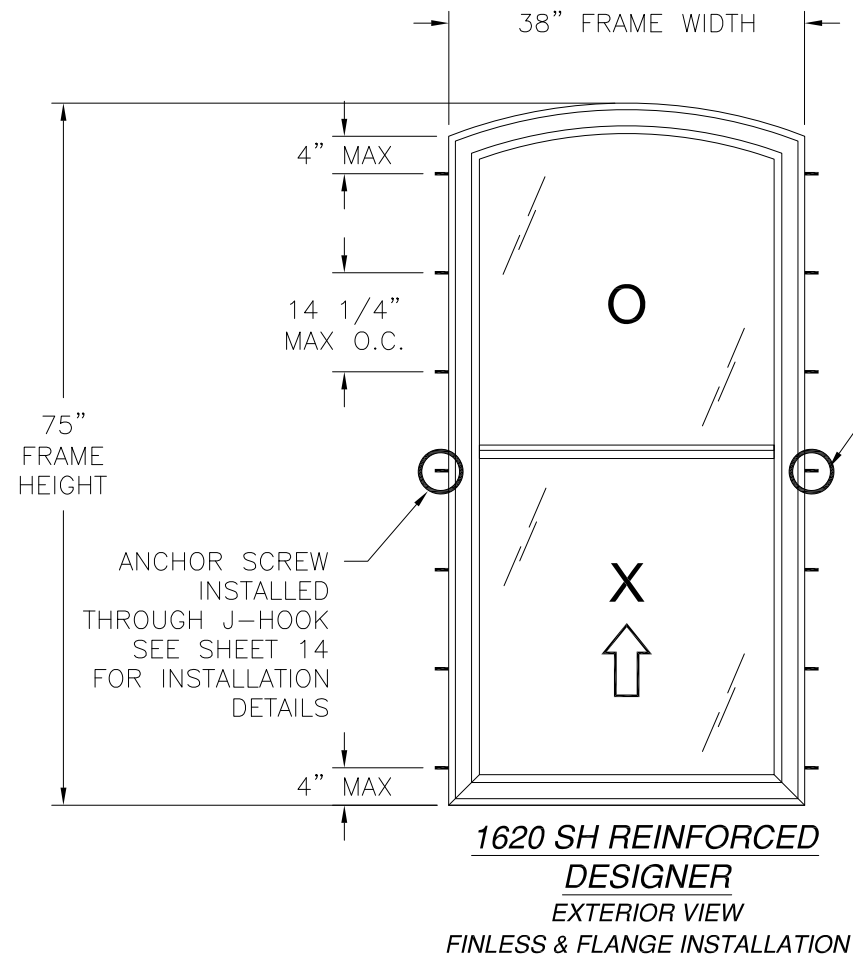
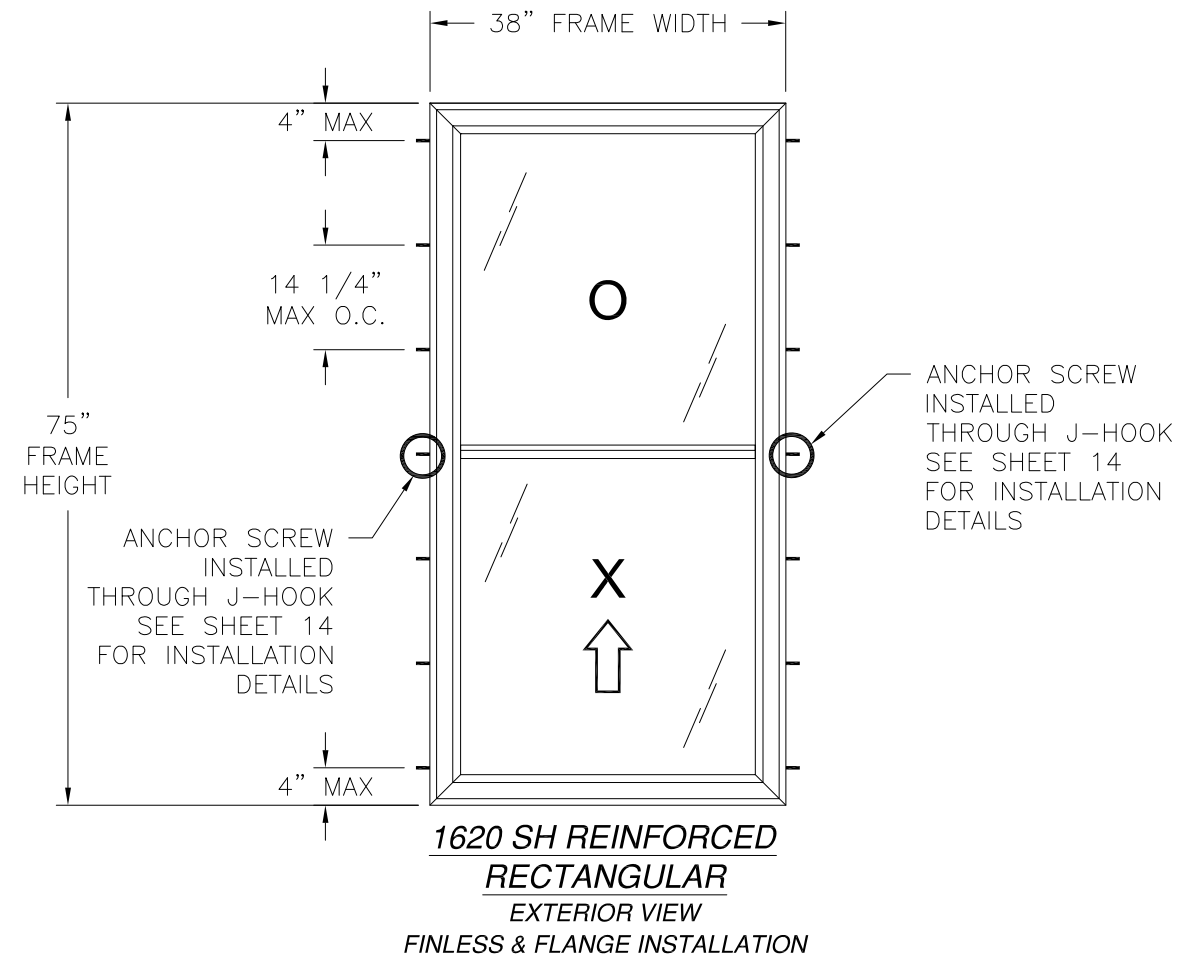
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/05/2021



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REINFORCED	
DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3
WHERE WATER PENETRATION RESISTANCE IS REQUIRED

REINFORCED	
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MISSILE LEVEL D, WIND ZONE 3
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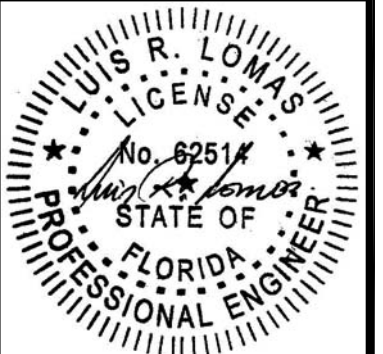
38" X 75" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 19.79" FT²

- NOTES:
- SASH SIZE: 35 3/8" X 37 1/4"
 - SASH D.L.O.: 31 7/8" X 33 3/4"
 - FIXED D.L.O.: 33 3/8" X 33 3/4"

HARDWARE SCHEDULE	
A.	(2) COMPOSITE CAM LOCK AT INTERIOR MEETING RAIL, 7" FROM EACH END
B.	(2) METAL TILT LATCH WITH J-HOOK AT EACH END OF INTERIOR MEETING RAIL WITH A J-HOOK IN EACH JAMB
C.	(2) METAL PIVOT PIN AT SASH BOTTOM RAIL, ONE AT EACH END.
D.	(2) CONSTANT FORCE BALANCES, ONE AT EACH JAMB
E.	(2) PVC RECESSED NIGHT LATCHES AT FIXED LITE STILES, 6" ABOVE FIXED MEETING RAIL
F.	ALUMINUM REINFORCEMENT (AE-000162) AT FIXED MEETING RAIL
G.	ALUMINUM REINFORCEMENT (M-2115) AT INTERIOR MEETING RAIL
H.	ALUMINUM REINFORCEMENT (M-2266) AT SASH STILES

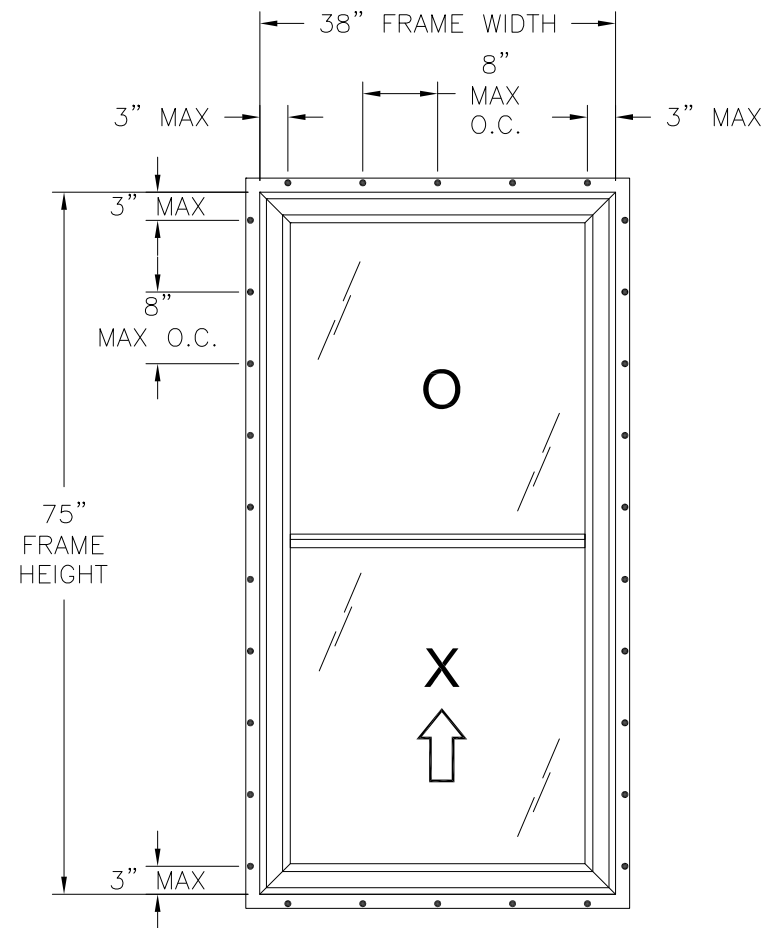
MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620 SINGLE HUNG WINDOW REINFORCED 38" X 75" - IMPACT FINLESS & FLANGE ELEVATIONS		
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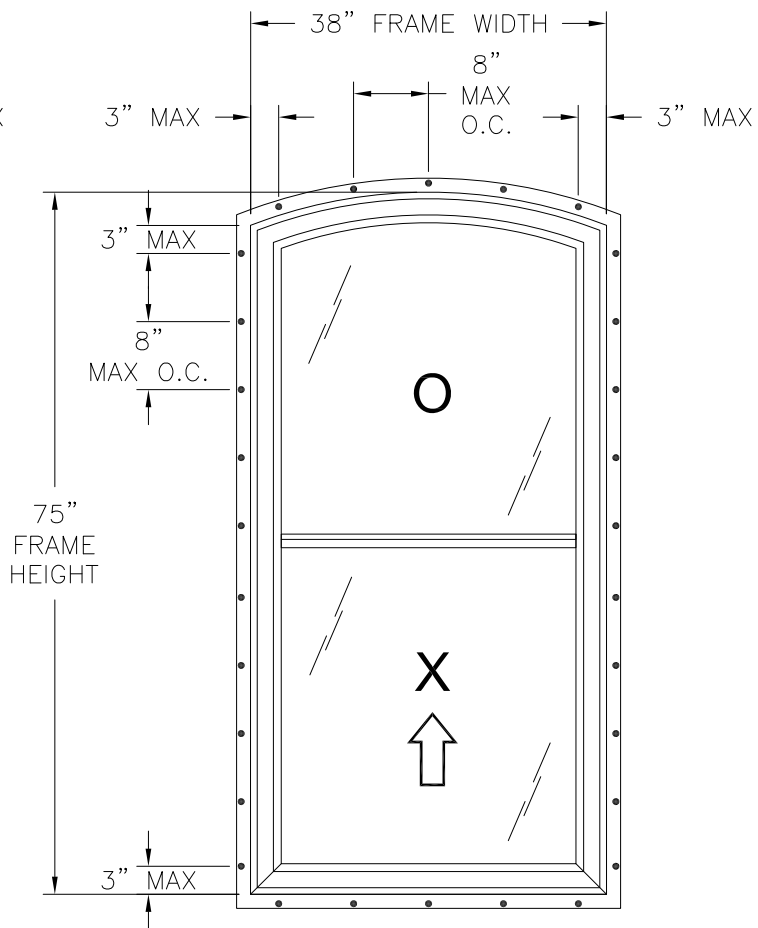


**1620 SH REINFORCED
RECTANGULAR**
EXTERIOR VIEW
FIN INSTALLATION

REINFORCED

DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3
WHERE WATER PENETRATION RESISTANCE IS REQUIRED



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DESIGNER**
EXTERIOR VIEW
FIN INSTALLATION

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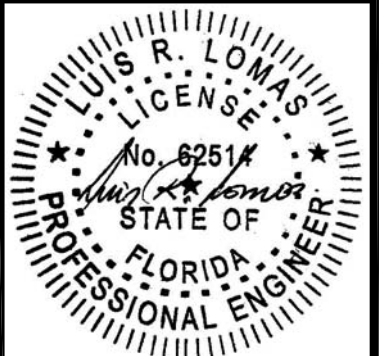
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38" X 75" – IMPACT
FIN ELEVATIONS

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SCALE NTS	DATE 06/13/19	SHEET 3 OF 15

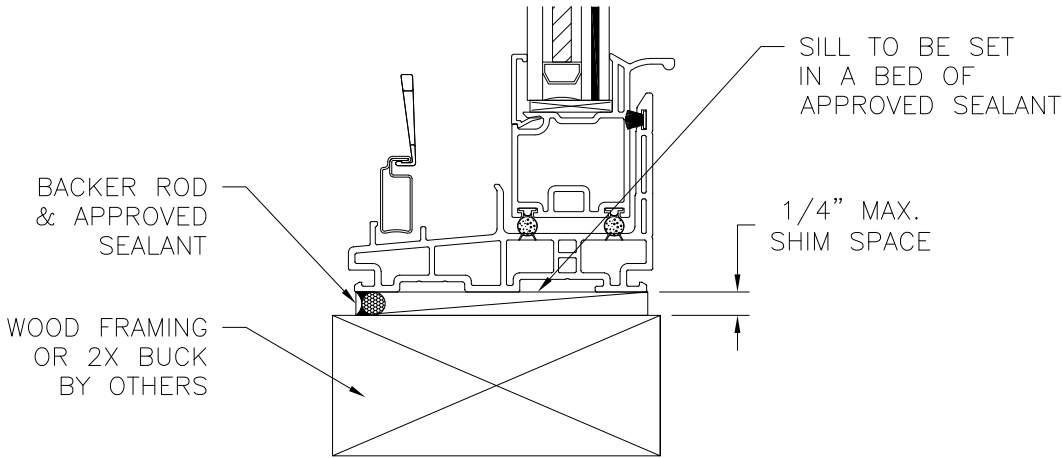
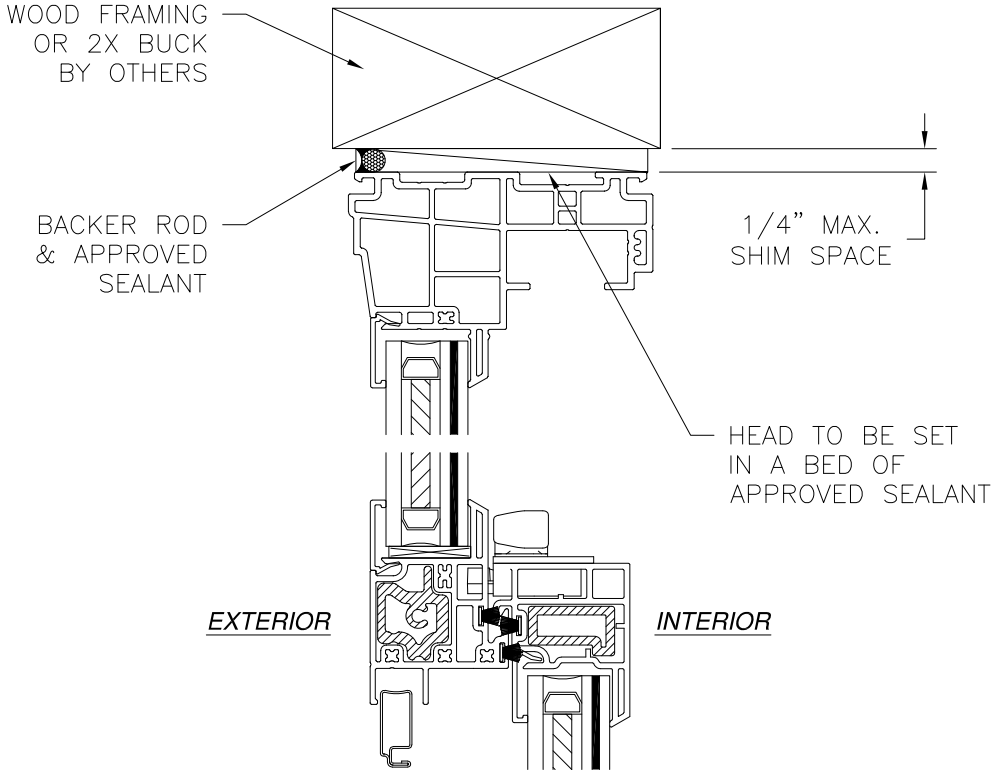
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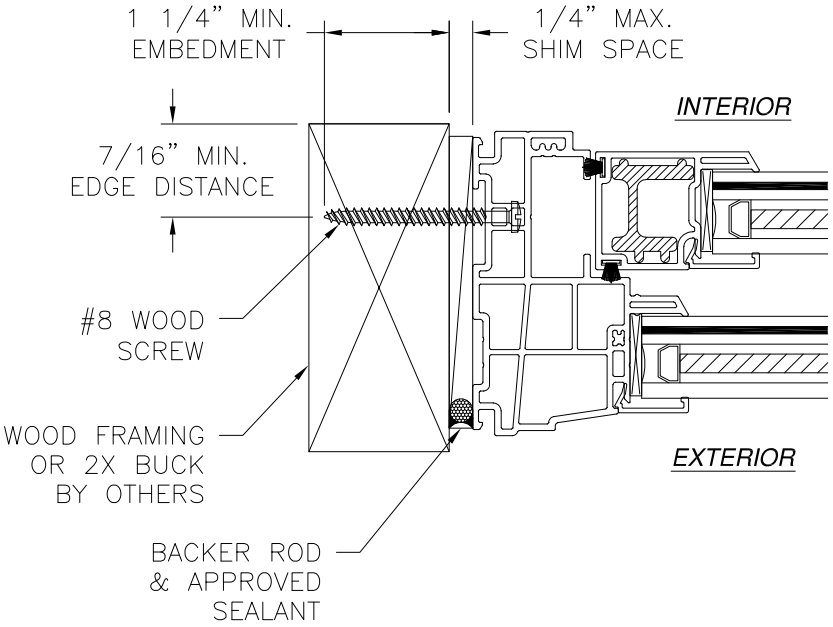


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

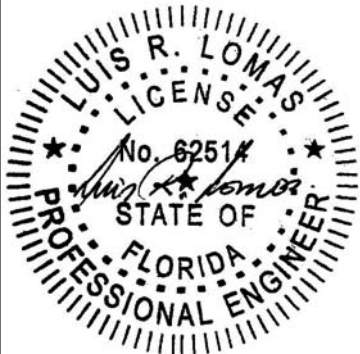


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

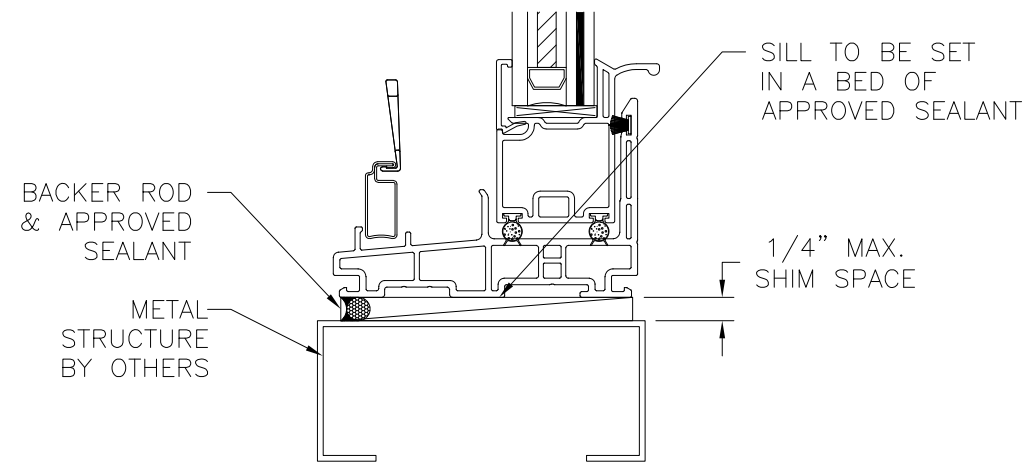
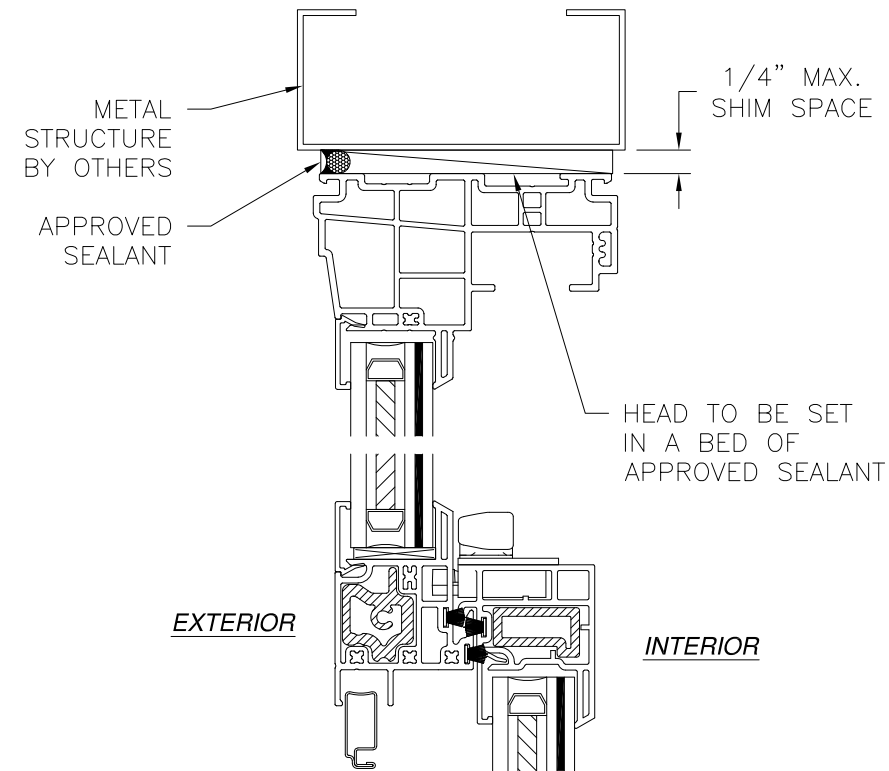
MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
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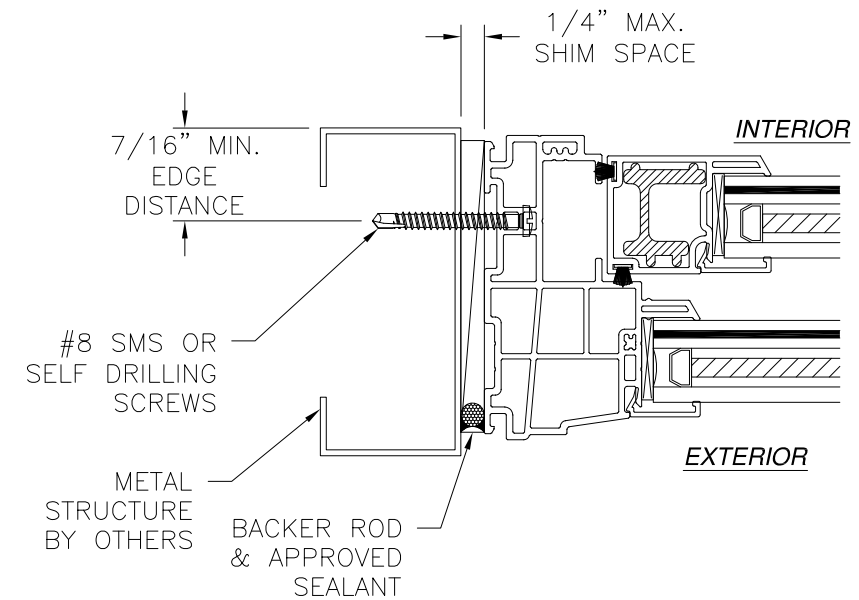


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



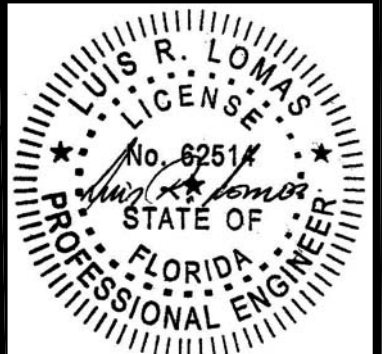
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METAL STRUCTURE INSTALLATION

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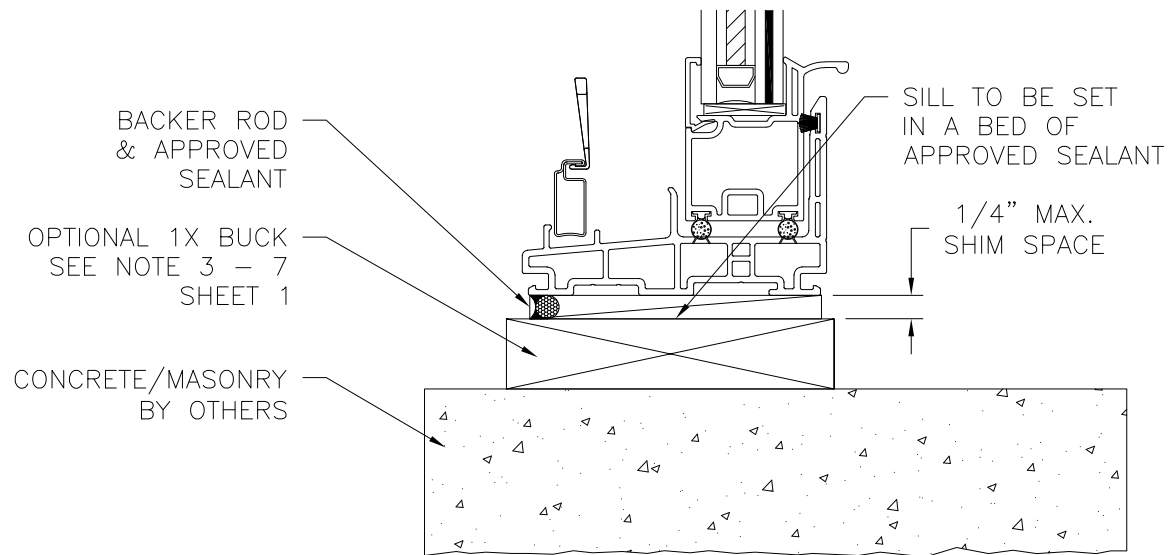
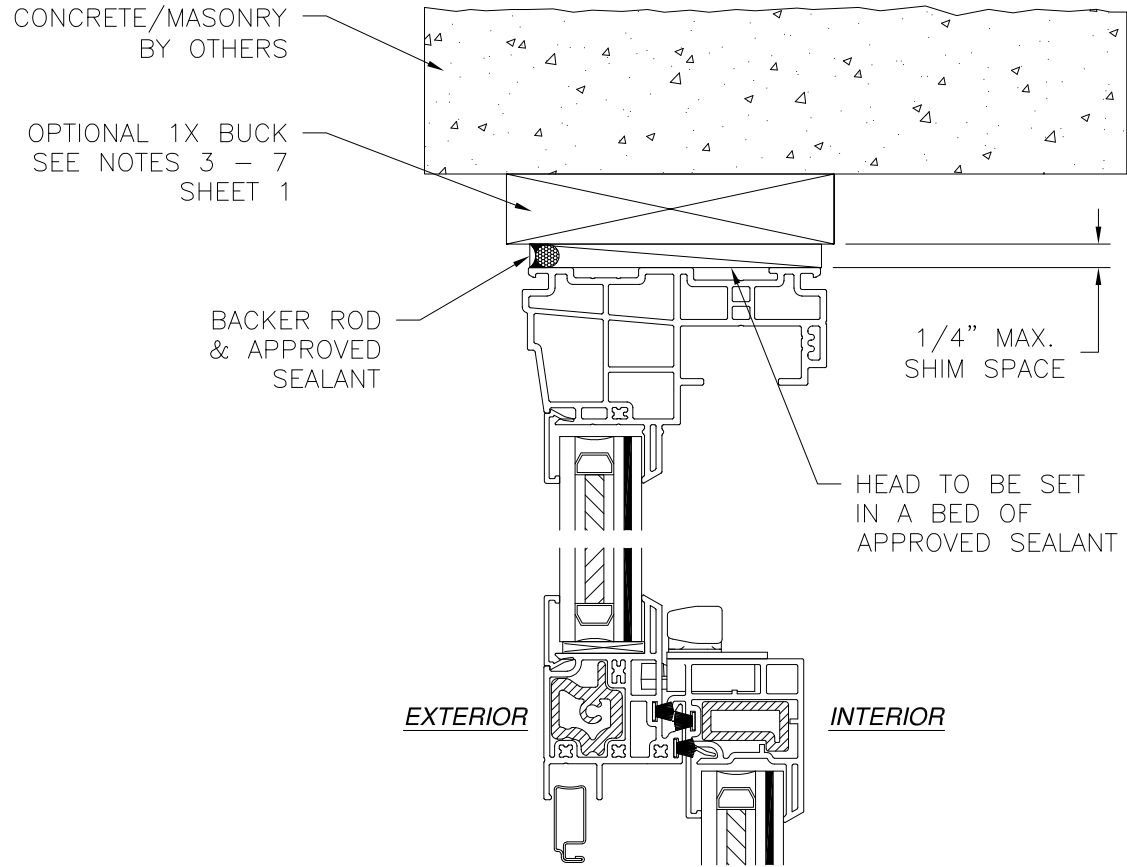
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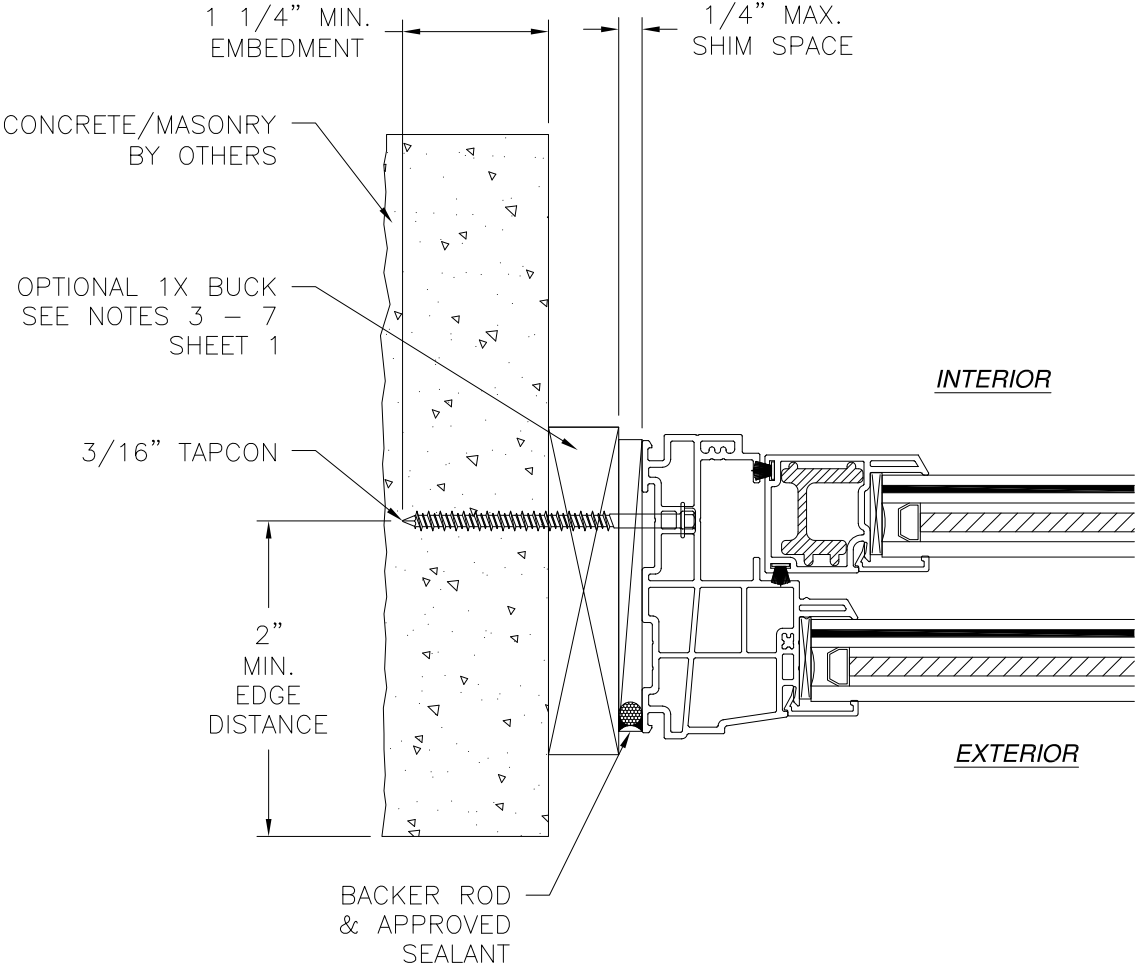
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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CONCRETE/MASONRY INSTALLATION

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GRATZ, PA 17030-0370

SERIES 1620 SINGLE HUNG WINDOW REINFORCED
38" X 75" - IMPACT
FINLESS INSTALLATION DETAILS

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08-03454

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SHEET 6 OF 15

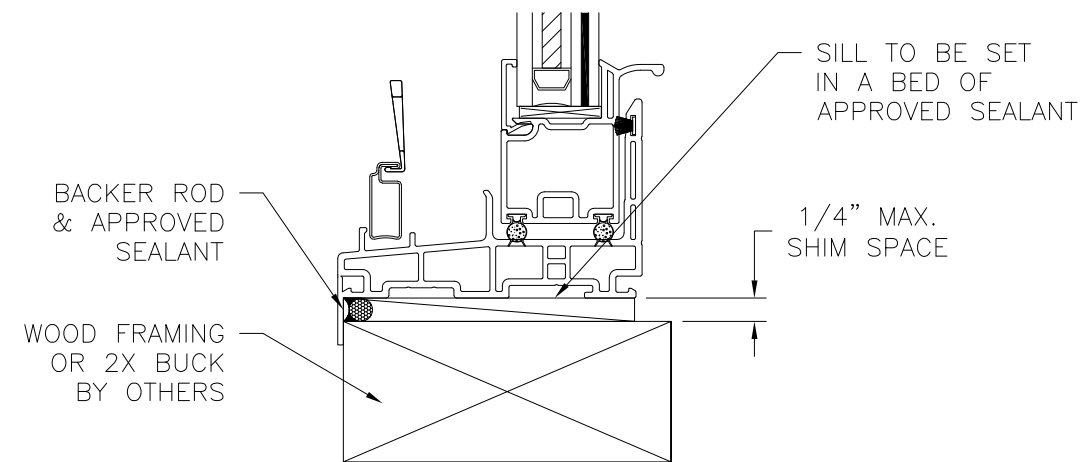
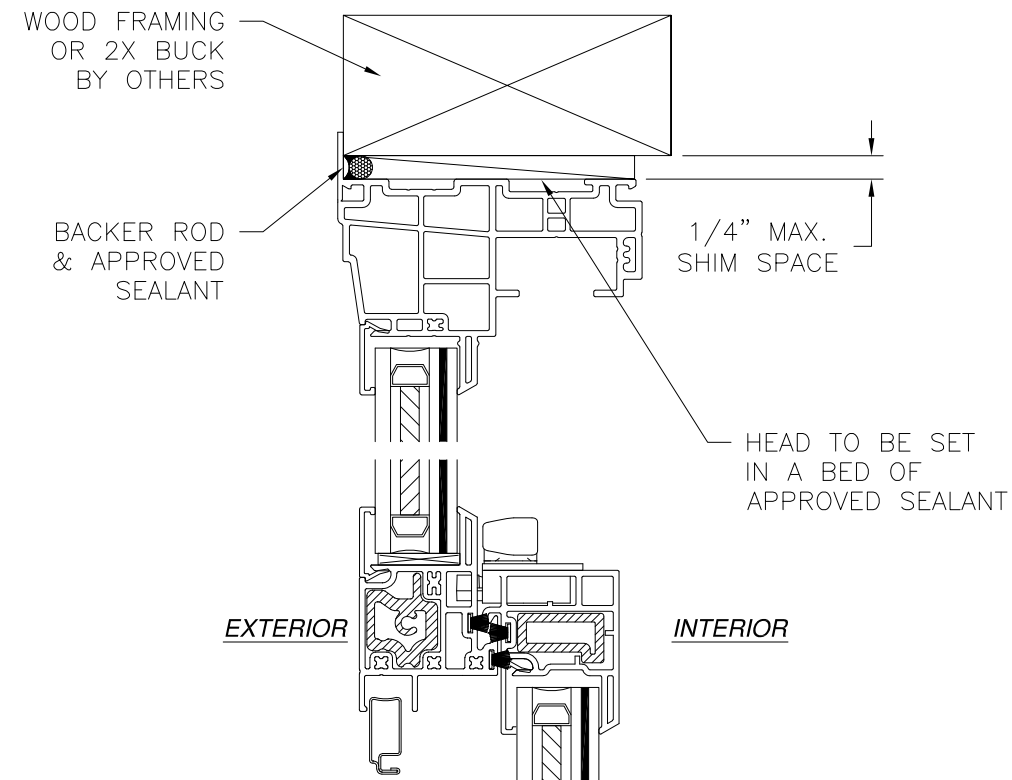
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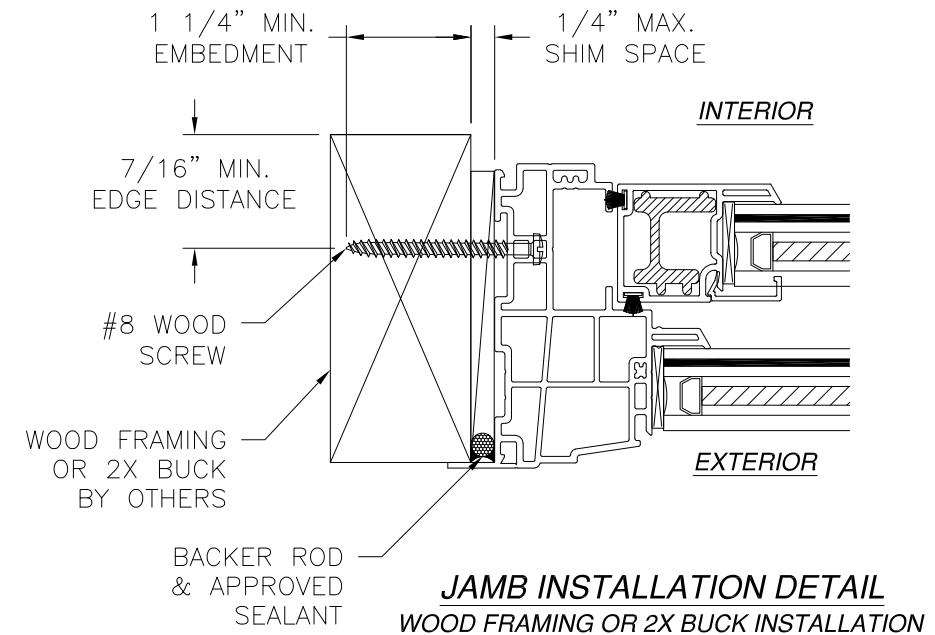
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

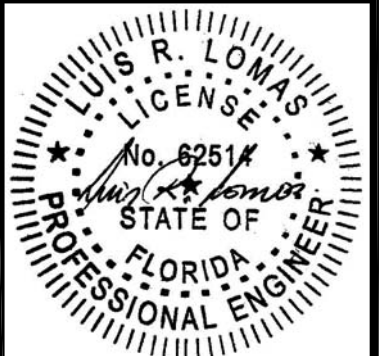
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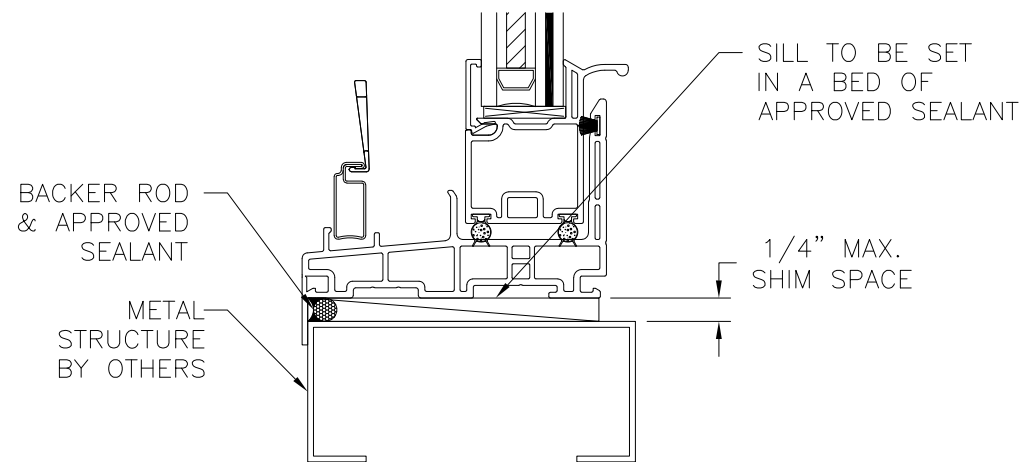
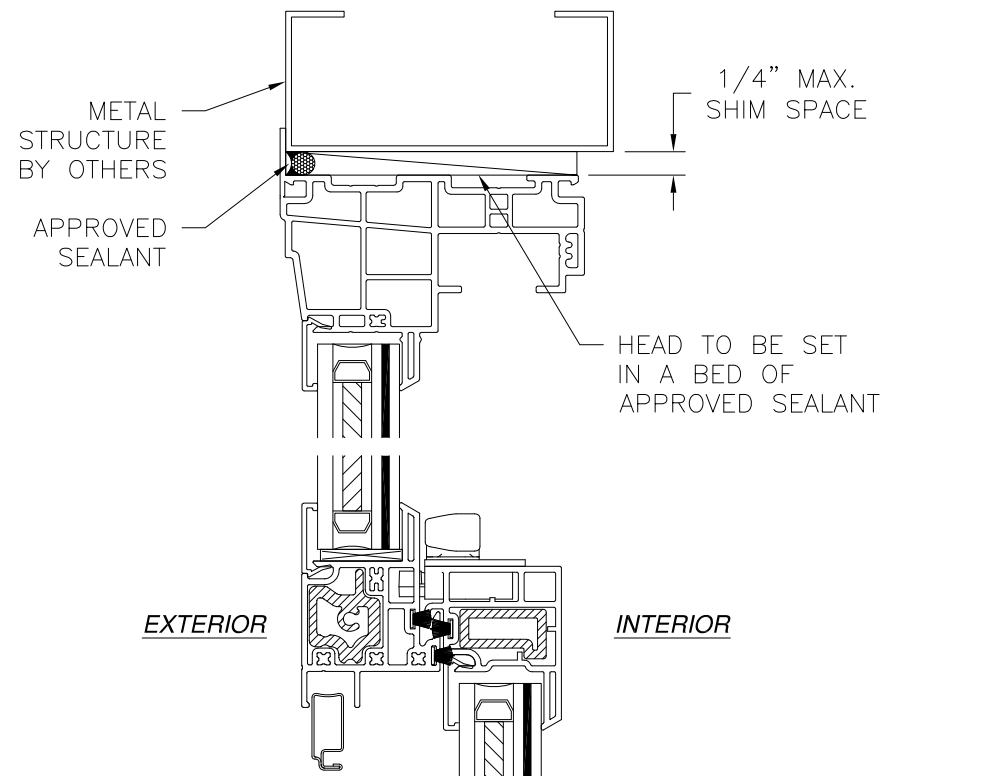
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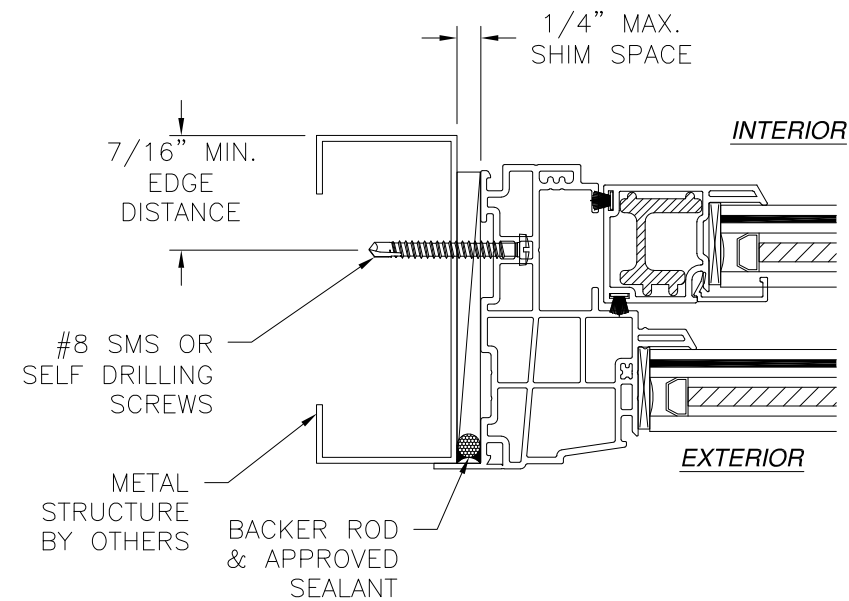


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



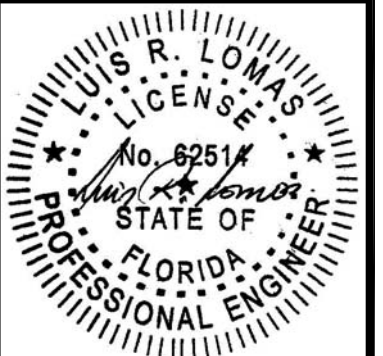
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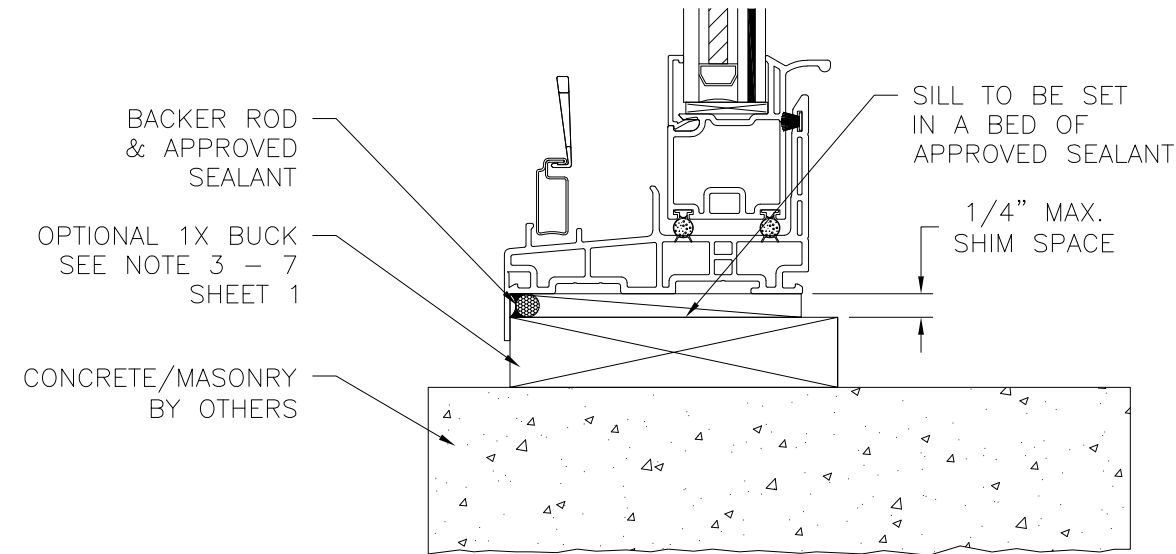
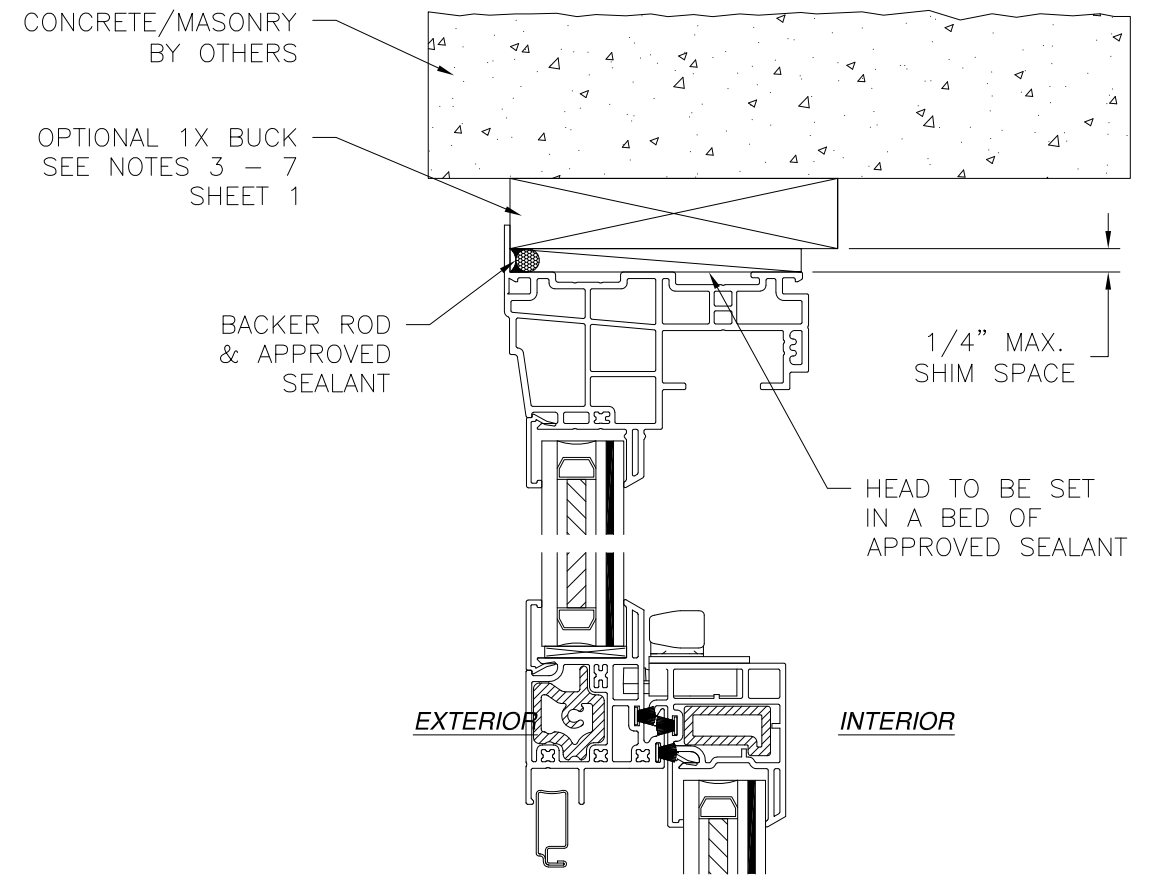
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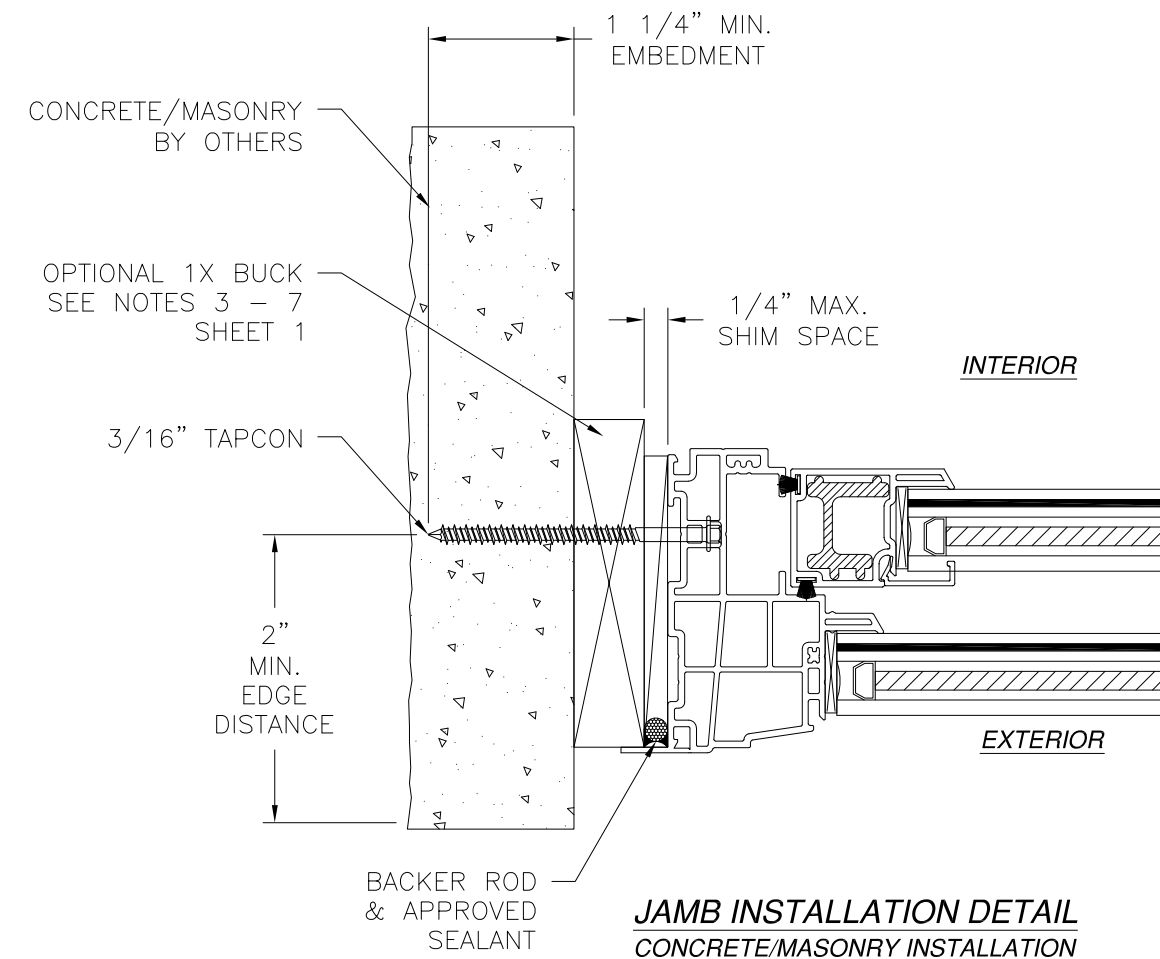


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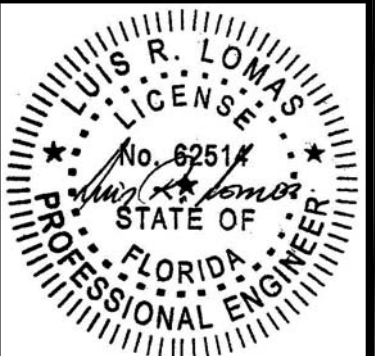
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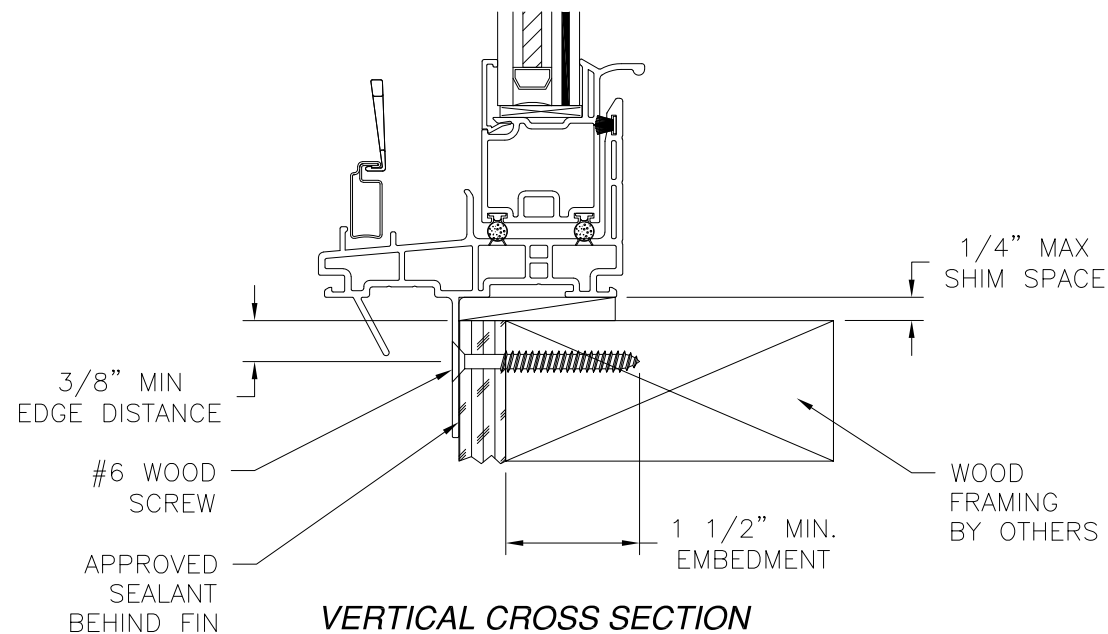
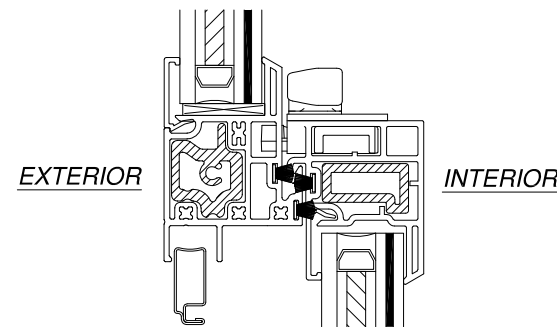
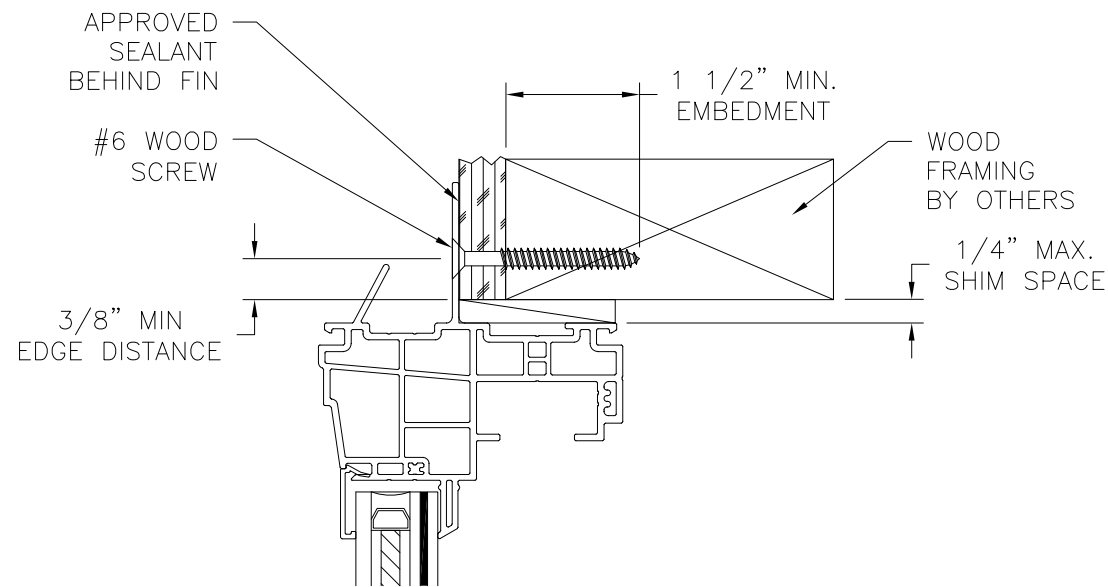
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 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620 SINGLE HUNG WINDOW REINFORCED 38" X 75" - IMPACT FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03454	REV B
SCALE NTS	DATE 06/13/19	SHEET 9 OF 15
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 10/05/2021



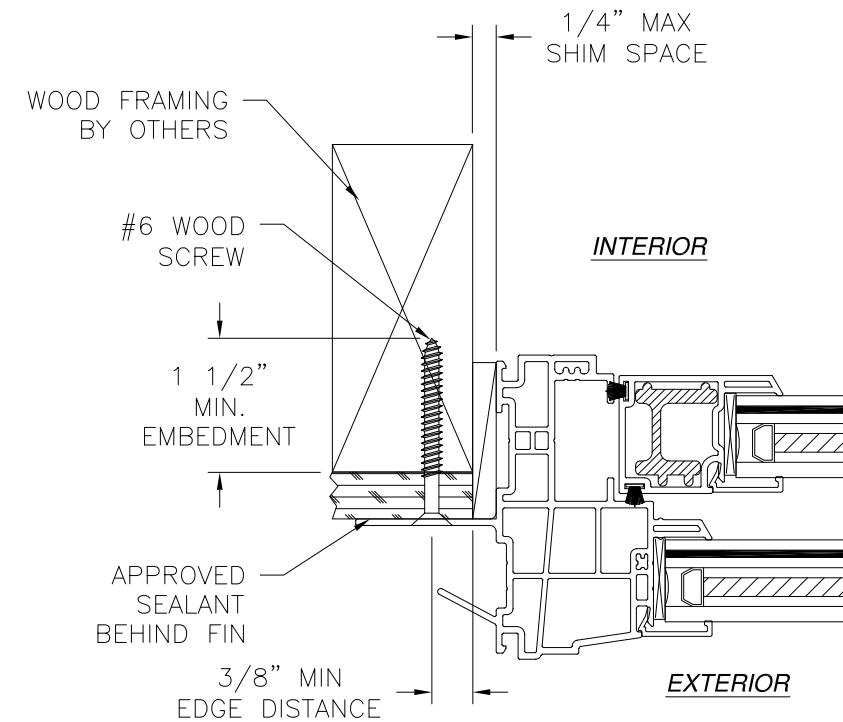
Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
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

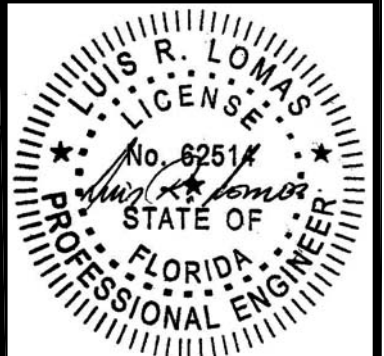
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED NEW EXTRUSIONS	01/20/2020	R.L.
B	REVISED ANCHORS	03/17/2021	R.L.



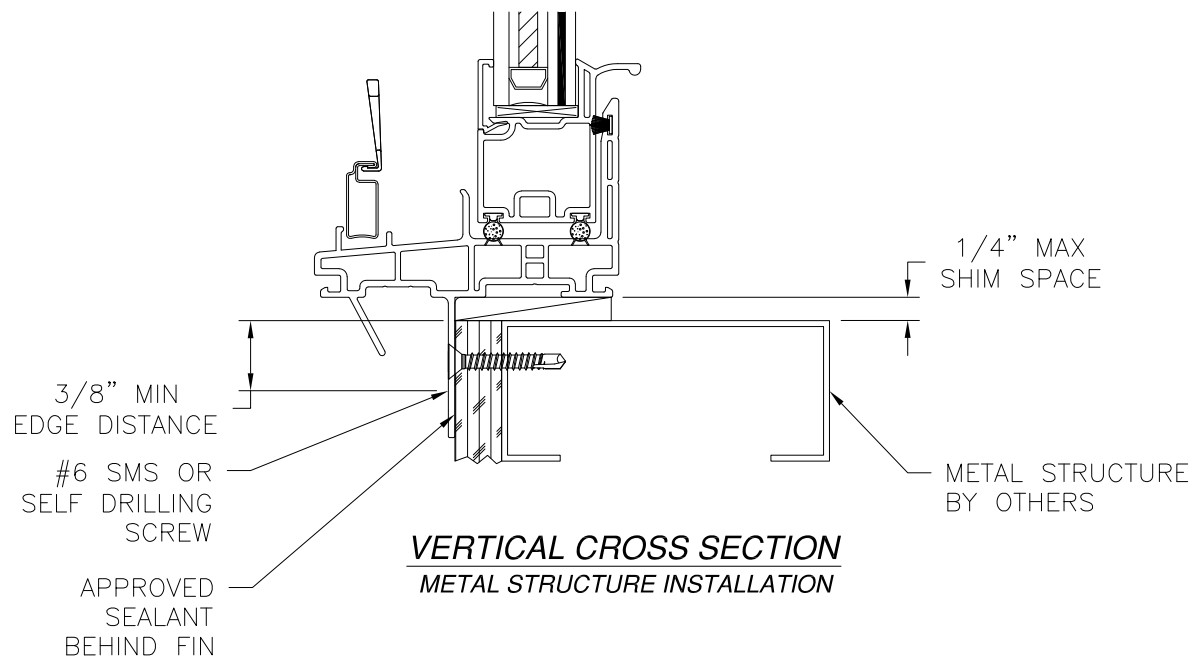
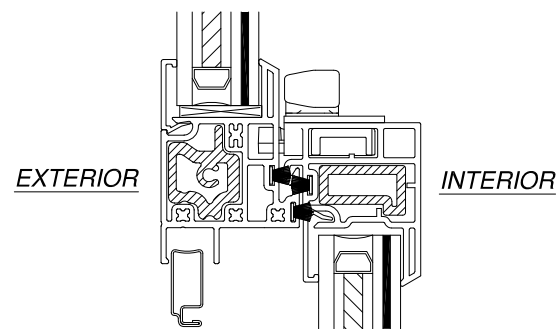
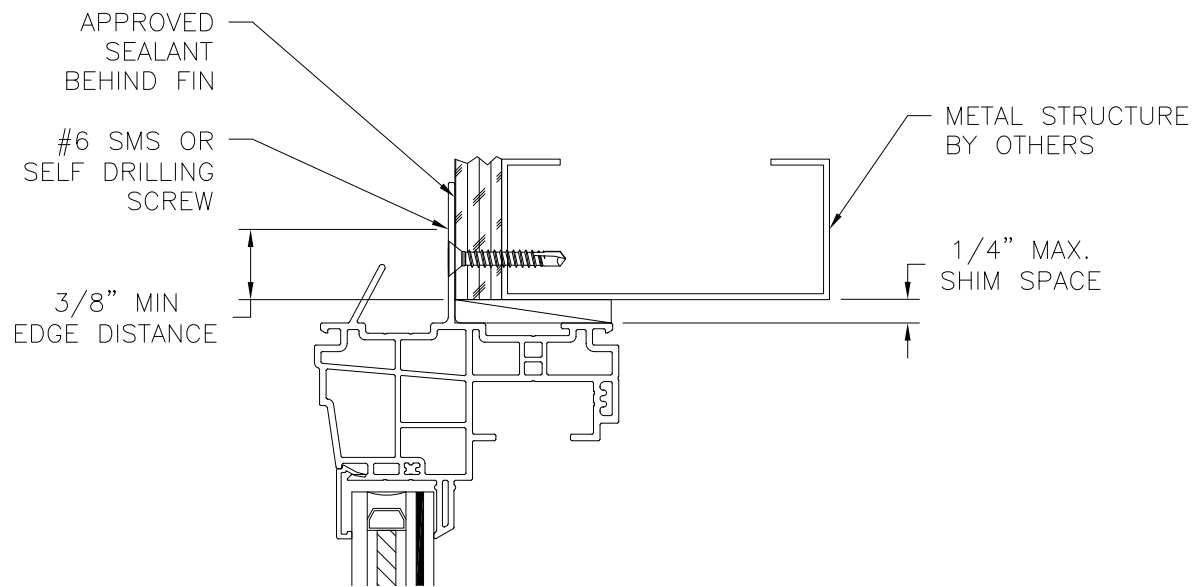
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620 SINGLE HUNG WINDOW REINFORCED 38" X 75" - IMPACT FIN WITH J CHANNEL INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03454	REV B
SCALE NTS	DATE 06/13/19	SHEET 10 OF 15
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

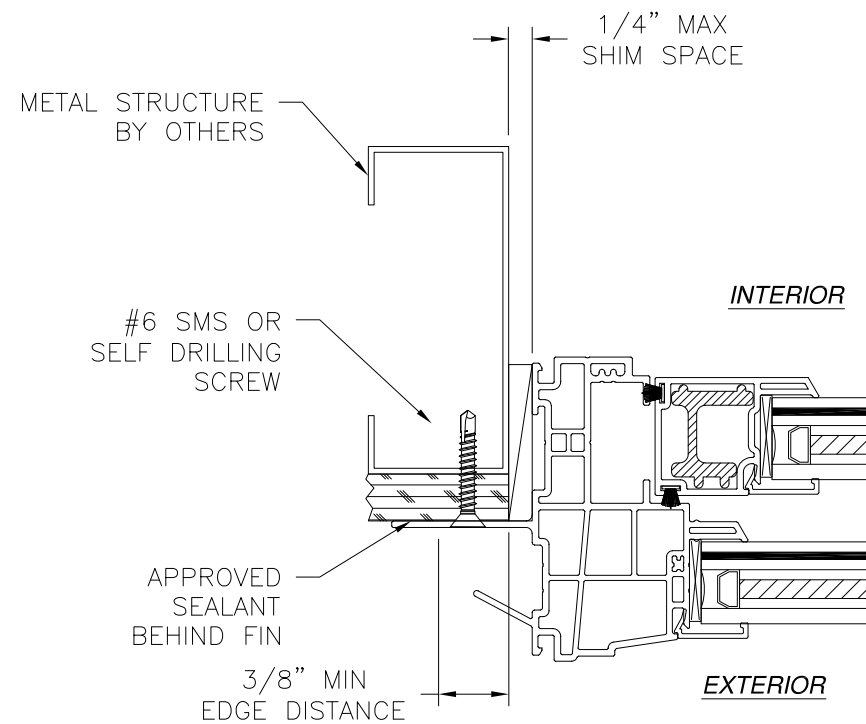
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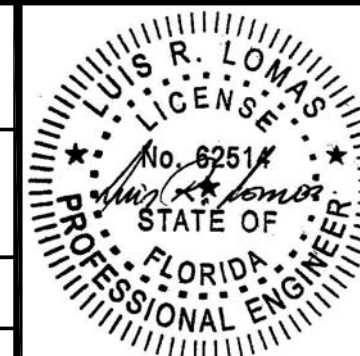


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

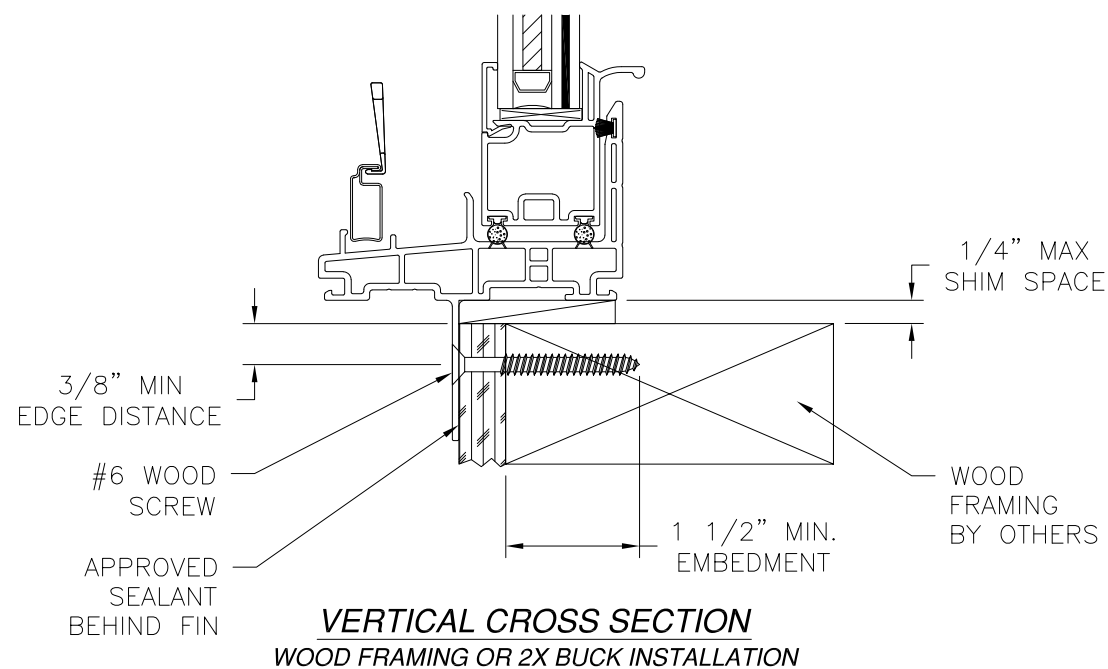
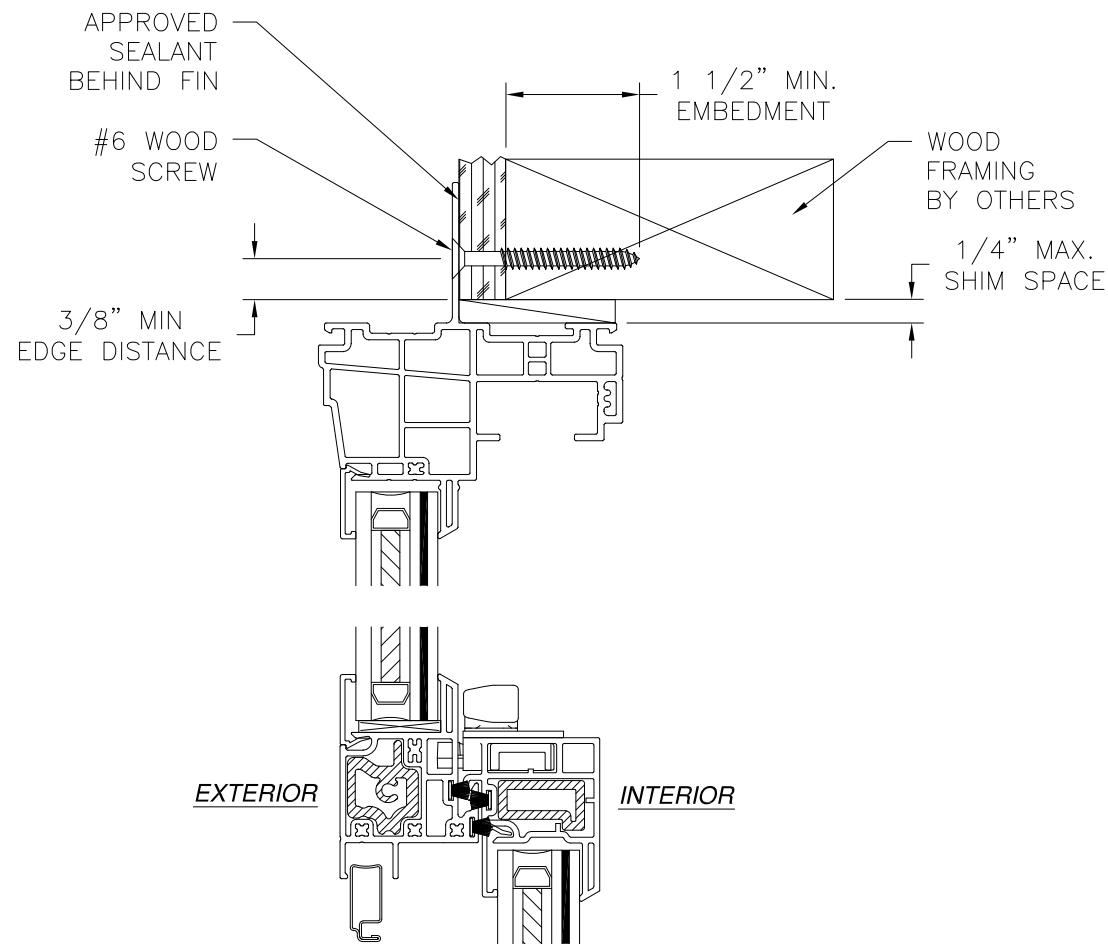
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DRAWN: A.R.	DWG NO. 08-03454	REV B
SCALE NTS	DATE 06/13/19	SHEET 11 OF 15
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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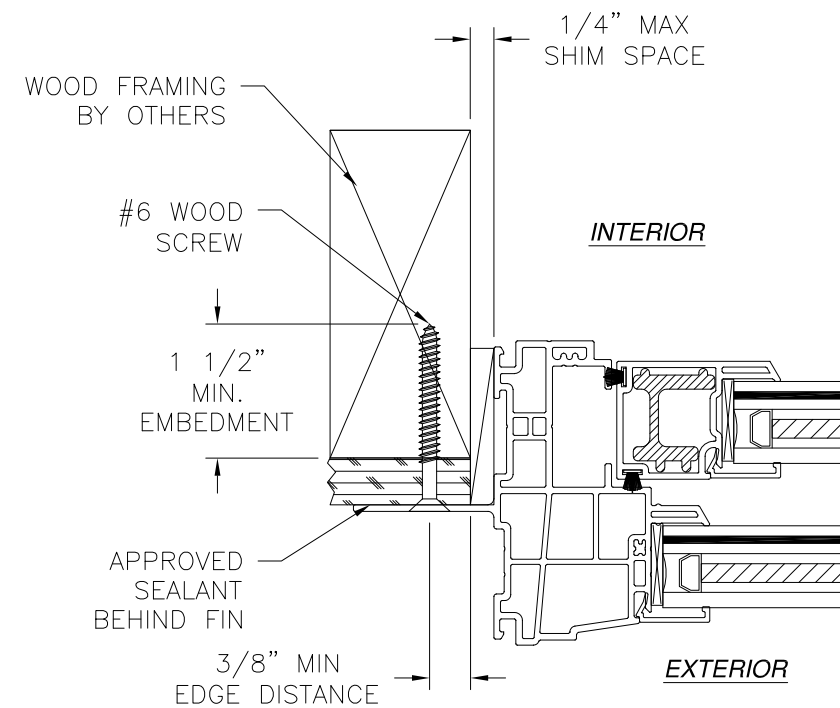


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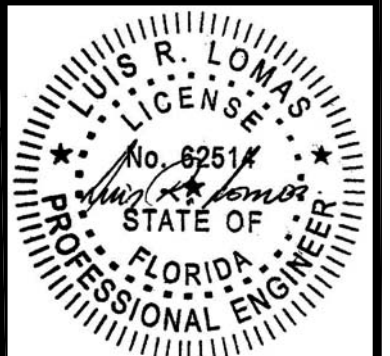
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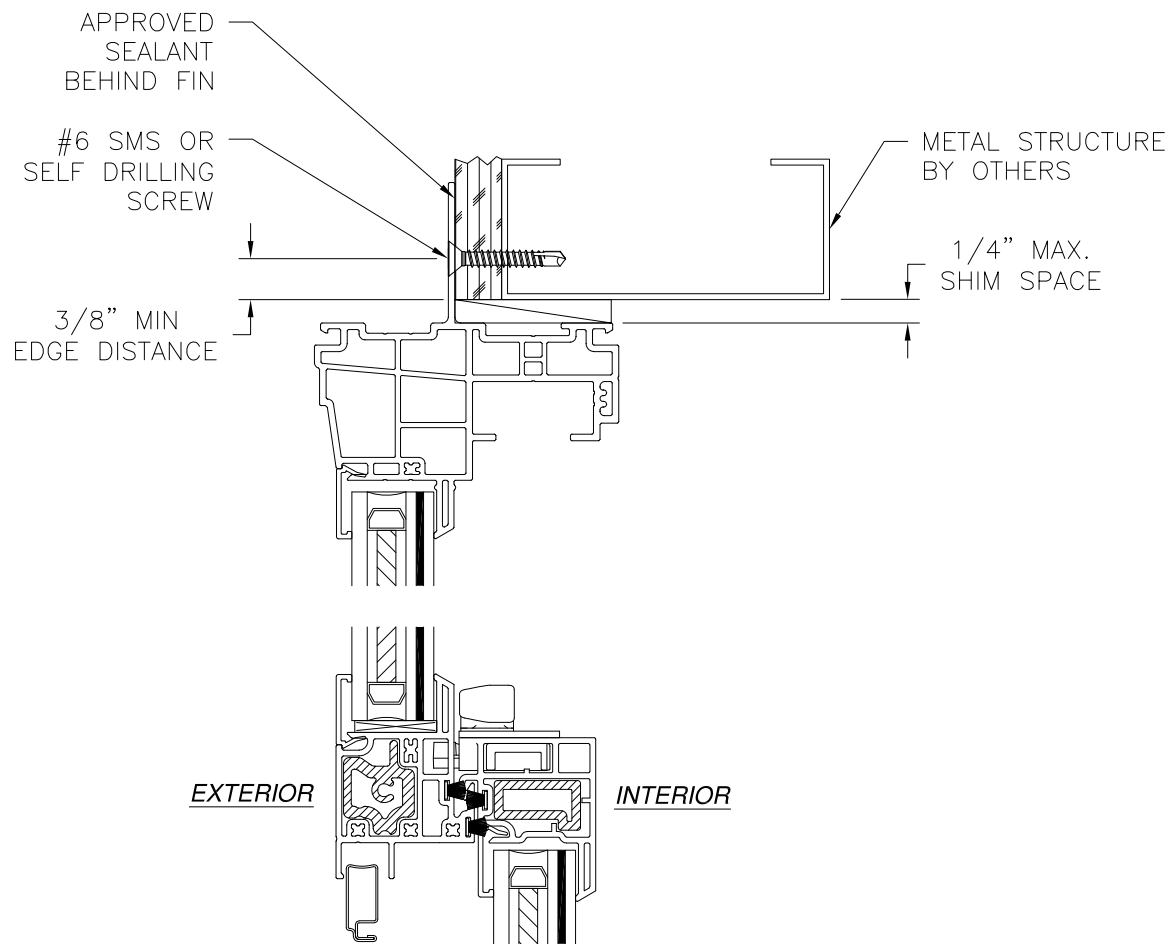
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WOOD FRAMING OR 2X BUCK INSTALLATION

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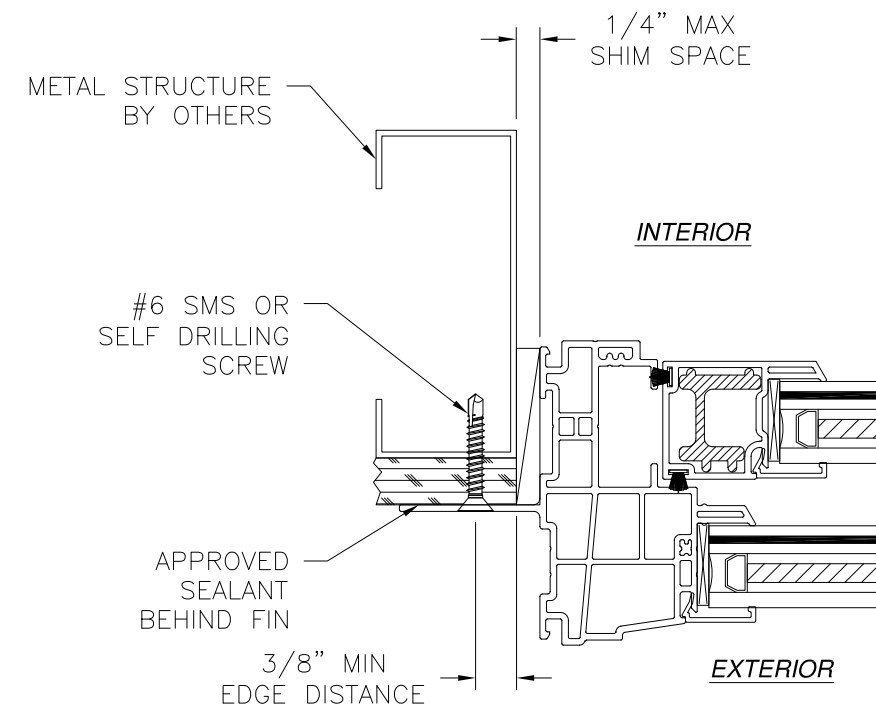
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



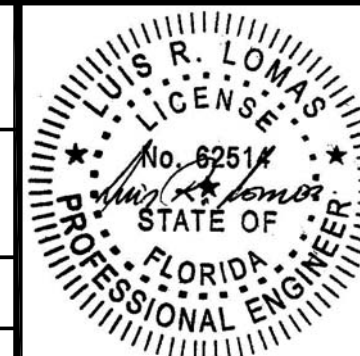
JAMB INSTALLATION DETAIL
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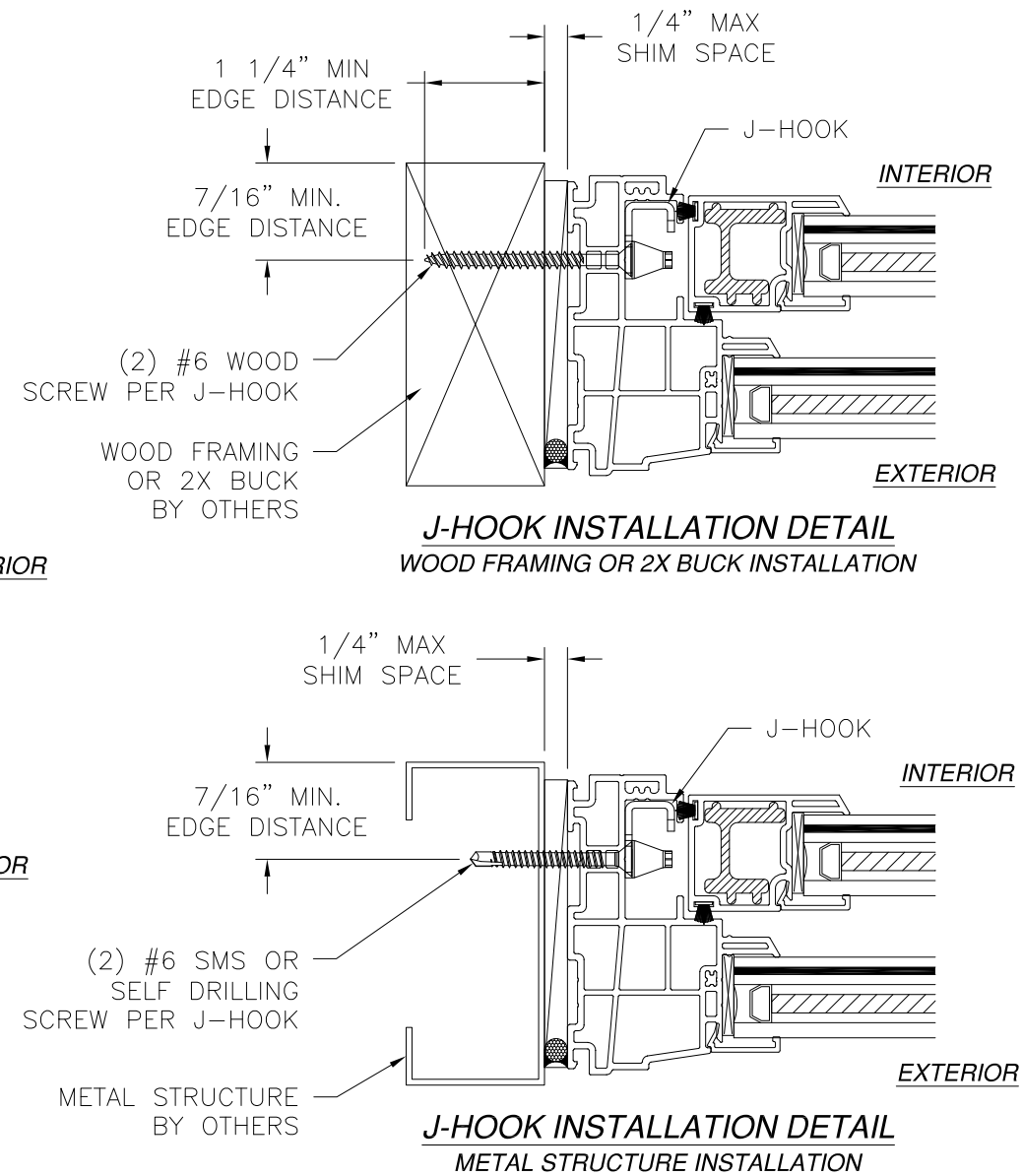
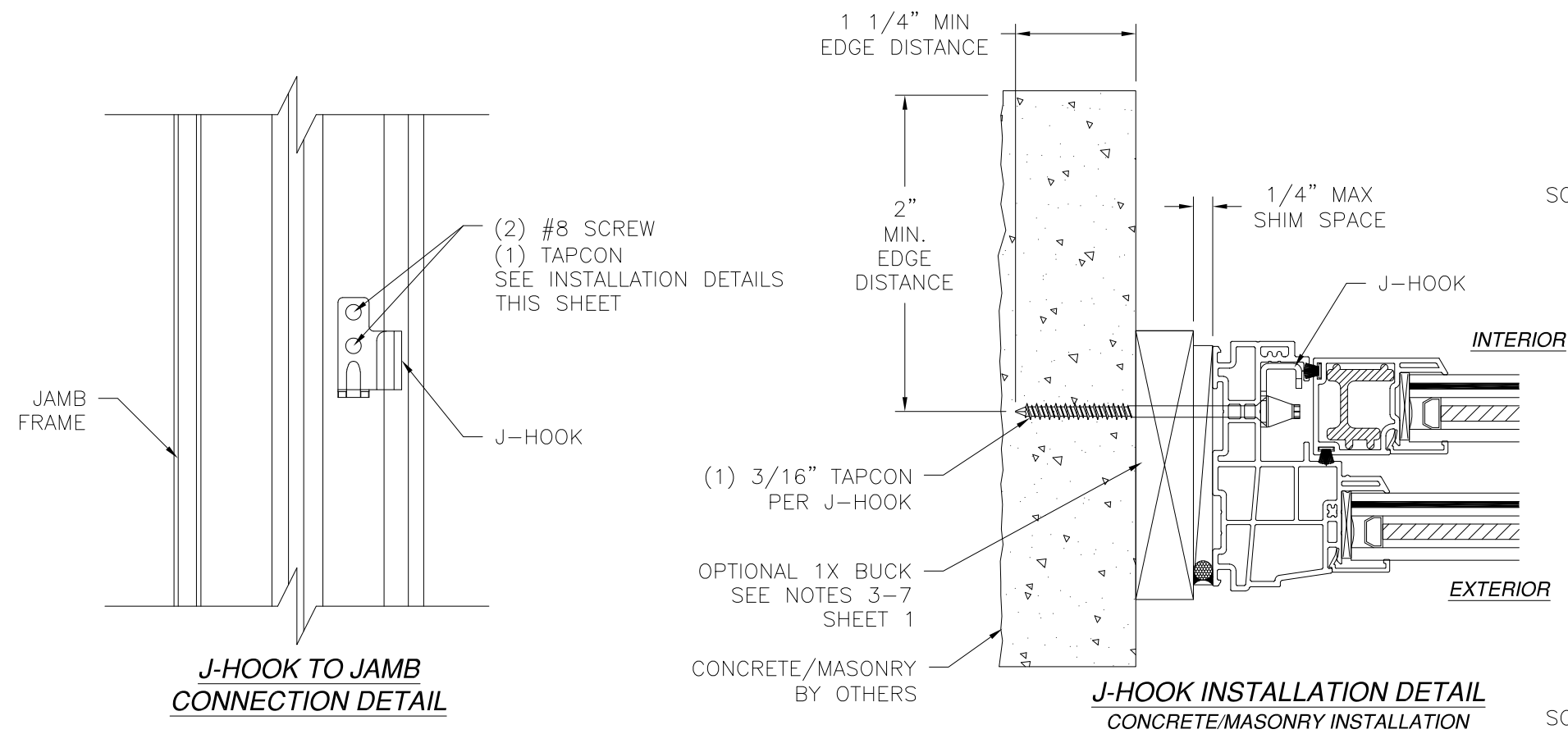
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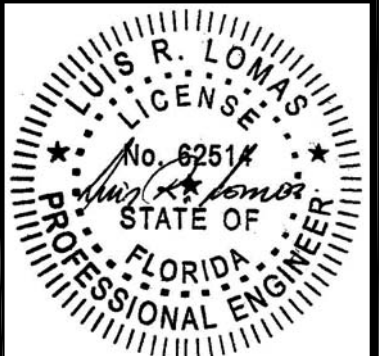
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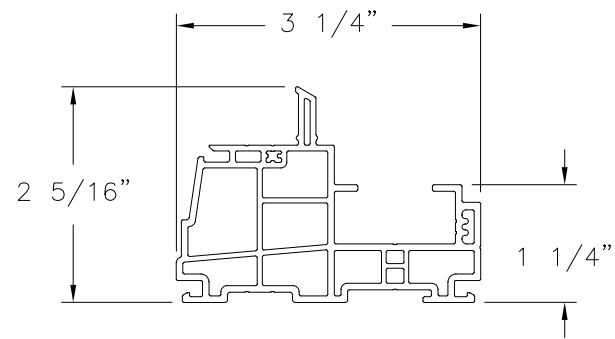
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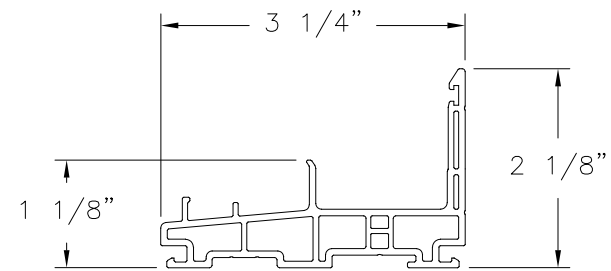
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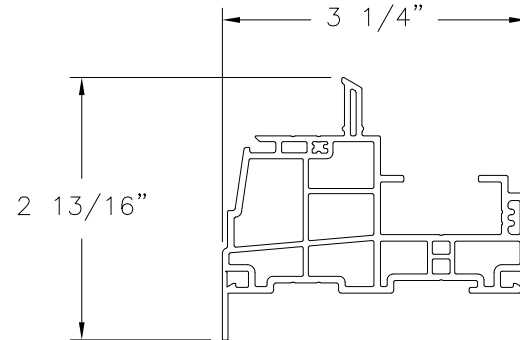
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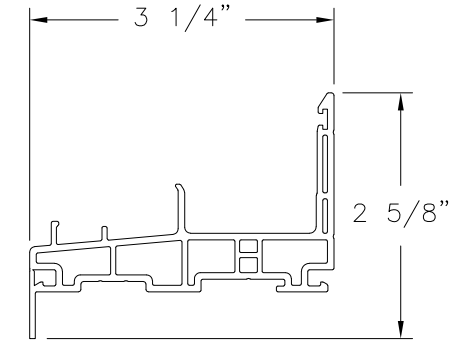
HEAD/JAMB FINLESS
PVC (V-1008)



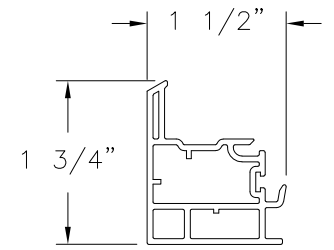
SILL FINLESS
PVC (V-1013)



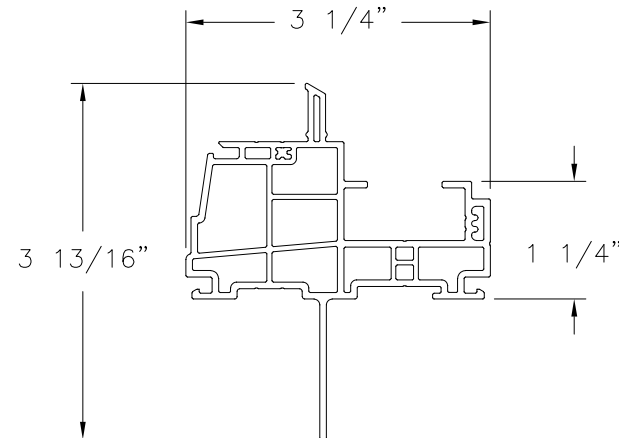
HEAD/JAMB WITH FLANGE
EXTRUDED PVC (VE-000025)



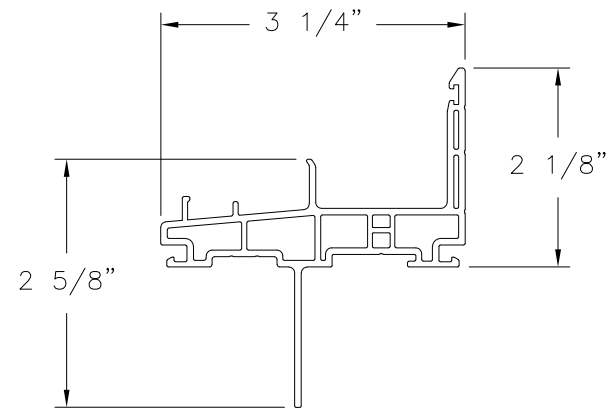
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EXTRUDED PVC (VE-000021)



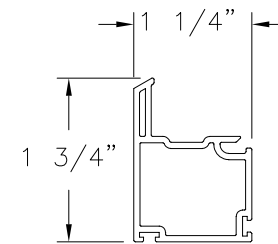
BOTTOM SASH LOCK RAIL
PVC (V-675)



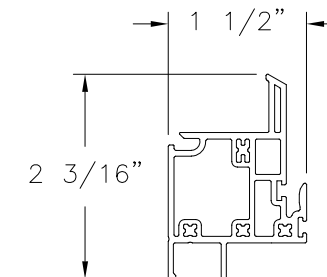
HEAD/JAMB FIN INSTALLATION
PVC (V-1007)



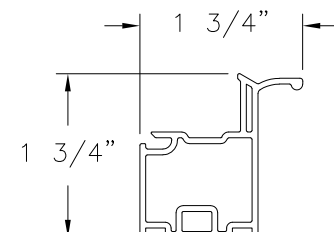
SILL FIN INSTALLATION
PVC (V-1012)



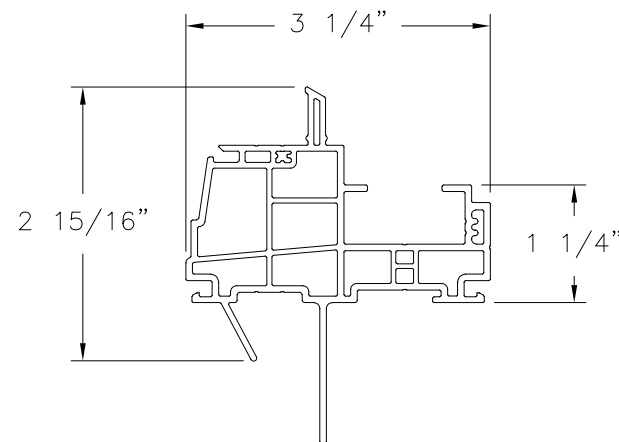
BOTTOM SASH STILE
PVC (V-670)



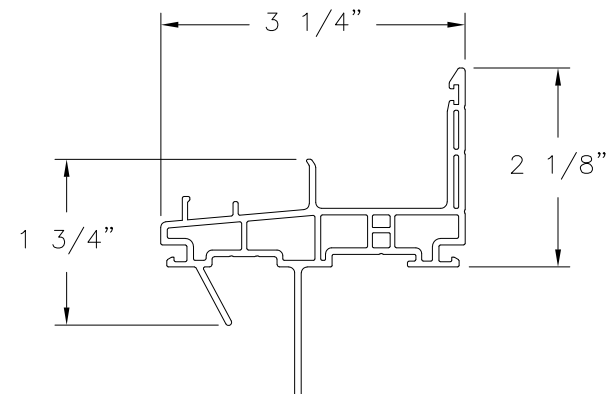
MEETING RAIL
PVC (V-1016)



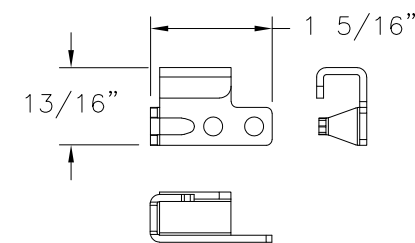
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PVC (V-672)



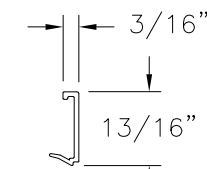
**HEAD/JAMB FIN INSTALLATION
WITH J-CHANNEL**
PVC (V-1006)



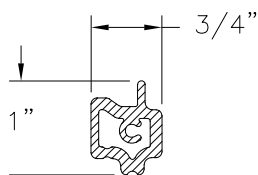
**SILL FIN INSTALLATION
WITH J-CHANNEL**
PVC (V-1011)



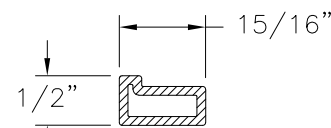
J-HOOK



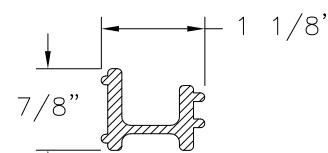
GLAZING BEAD
PVC (V-676)



**MEETING RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (AE-000162)



**LOCK RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2115)

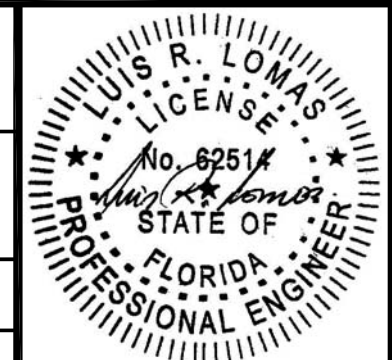


**KEEPING RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2266)

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DRAWN: A.R.	DWG NO. 08-03454	REV B
SCALE NTS	DATE 06/13/19	SHEET 15 OF 15
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