

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	10/30/2023	R.L.

NOTES:

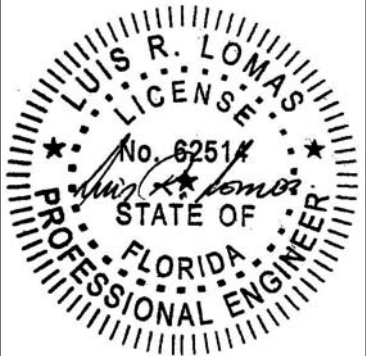
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 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.
4. 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.
5. 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.
6. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS NEEDED 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".
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. 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.
15. 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.
16. 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.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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:
 - 18.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 18.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 18.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 18.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

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SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3 – 12	INSTALLATION DETAILS
13	COMPONENTS

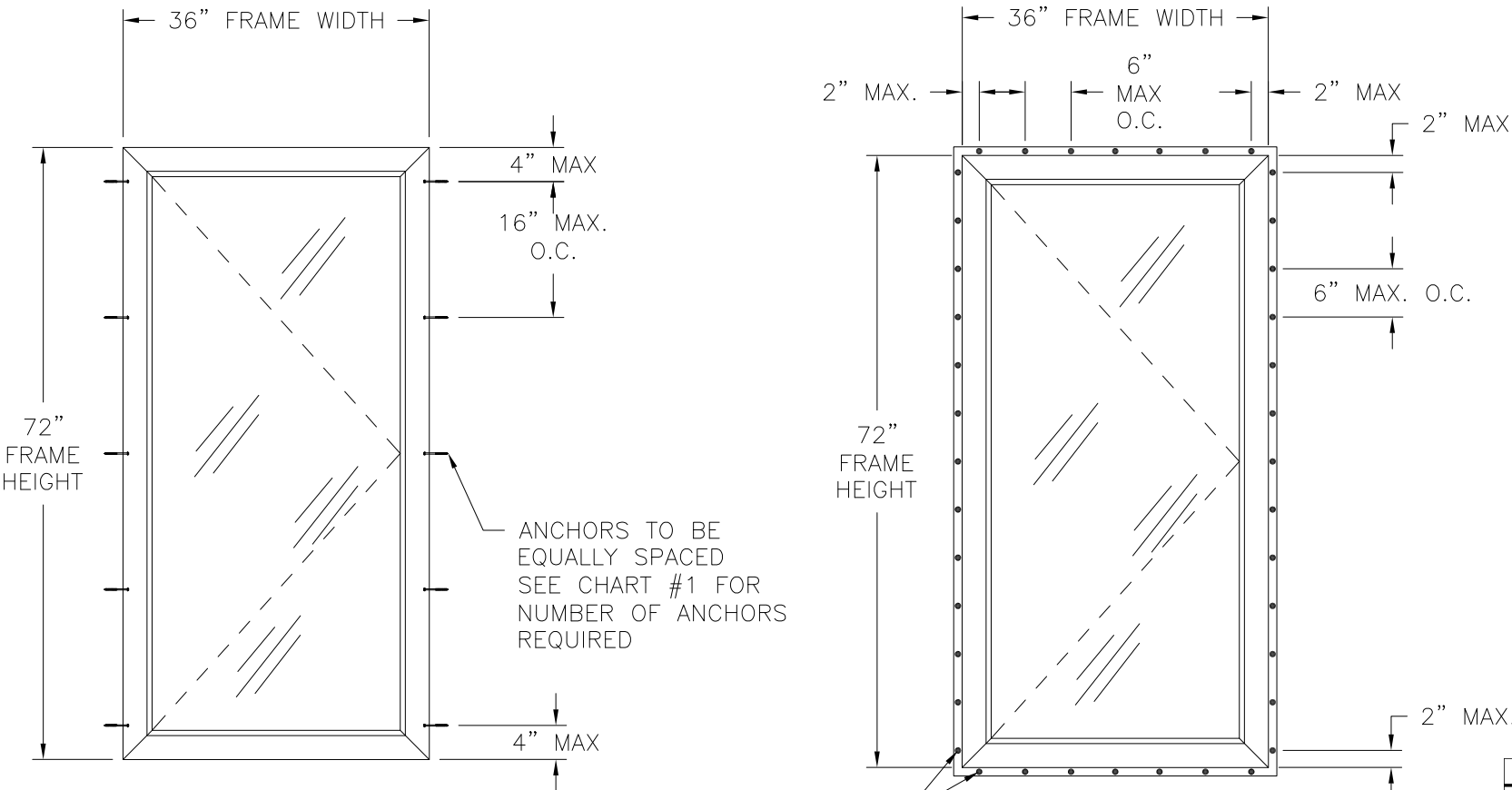
MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
9770 CASEMENT PVC WINDOW NON-IMPACT NOTES		
DRAWN: V.L.	DWG NO. 08-02221	REV B
SCALE NTS	DATE 09/06/13	SHEET 1 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/14/2023



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

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9770 CASEMENT WINDOW
EXTERIOR VIEW
FINLESS INSTALLATION

9770 CASEMENT WINDOW
EXTERIOR VIEW
FIN INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

CHART # 1 Number of anchor locations required											
Frame Height (in)	Frame width (in)										
	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00
	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb
22.00	2	2	2	2	2	2	2	2	2	2	2
24.00	2	2	2	2	2	2	2	2	2	2	2
30.00	3	3	3	3	3	3	3	3	3	3	3
36.00	3	3	3	3	3	3	3	3	3	3	3
42.00	4	4	4	4	4	4	4	4	4	4	4
48.00	4	4	4	4	4	4	4	4	4	4	4
54.00	4	4	4	4	4	4	4	4	4	4	4
60.00	5	5	5	5	5	5	5	5	5	5	5
62.00	5	5	5	5	5	5	5	5	5	5	5
66.00	5	5	5	5	5	5	5	5	5	5	5
72.00	5	5	5	5	5	5	5	5	5	5	5

CHART # 2

Number of anchor locations required														
Frame Height (in)	Frame width (in)													
	18.00		21.00		24.00		27.00		30.00		33.00		36.00	
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
22.00	4	4	4	4	5	4	5	4	6	4	6	4	7	4
24.00	4	5	4	5	5	5	5	5	6	5	6	5	7	5
30.00	4	6	4	6	5	6	5	6	6	6	6	6	7	6
36.00	4	7	4	7	5	7	5	7	6	7	6	7	7	7
42.00	4	8	4	8	5	8	5	8	6	8	6	8	7	8
48.00	4	9	4	9	5	9	5	9	6	9	6	9	7	9
54.00	4	10	4	10	5	10	5	10	6	10	6	10	7	10
60.00	4	11	4	11	5	11	5	11	6	11	6	11	7	11
62.00	4	11	4	11	5	11	5	11	6	11	6	11	7	11
66.00	4	12	4	12	5	12	5	12	6	12	6	12	7	12
72.00	4	13	4	13	5	13	5	13	6	13	6	13	7	13

NOTES:
1. VENT SIZE: 34 7/16" X 70 7/16"
2. D.L.O.: 29 1/4" X 65 1/4"

HARDWARE SCHEDULE	
A.	(1) MULTI-POINT LOCK WITH 4 KEEPERS AT LOCK STILE
B.	(2) METAL SNUBBERS AT HINGES STILE 24" AND 48" FROM SILL
C.	(1) ROTO-OPERATOR AT SILL 8" FROM HINGE STILE
D.	(1) 3 BAR HINGE ASSEMBLY AT HEAD HINGE STILE

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

9770 CASEMENT PVC WINDOW
NON-IMPACT
ELEVATIONS

DRAWN:
V.L.

DWG NO.
08-02221

REV
B

SCALE NTS

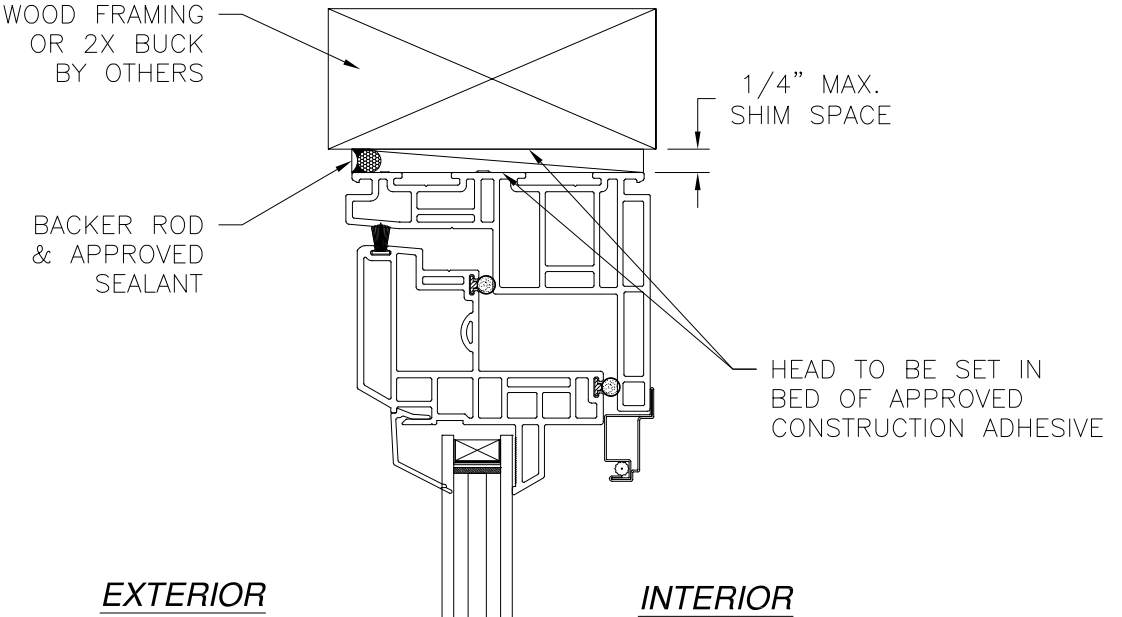
DATE 09/06/13

SHEET 2 OF 13

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

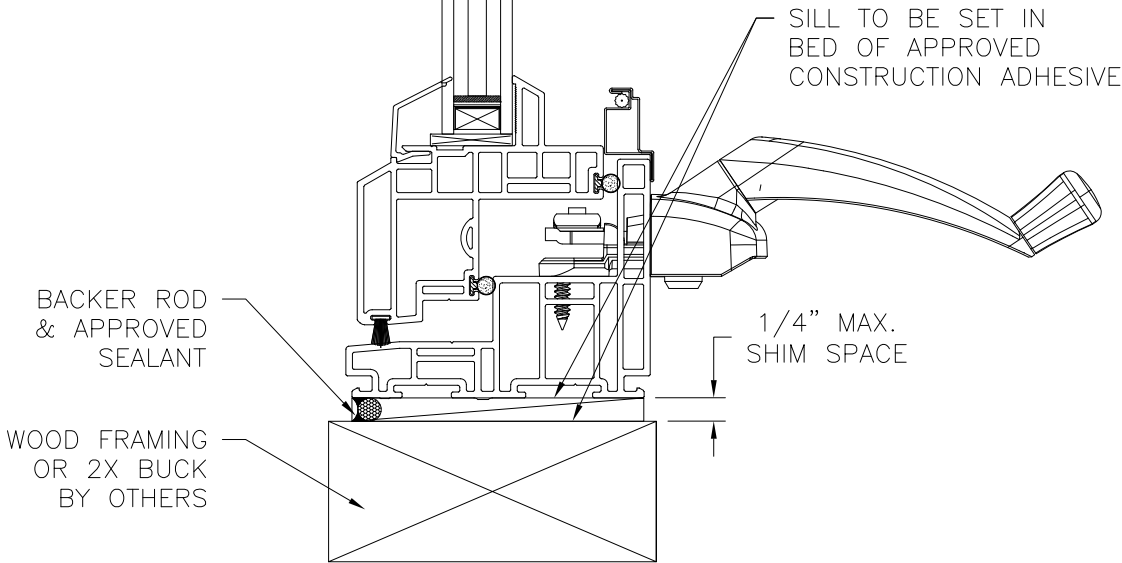
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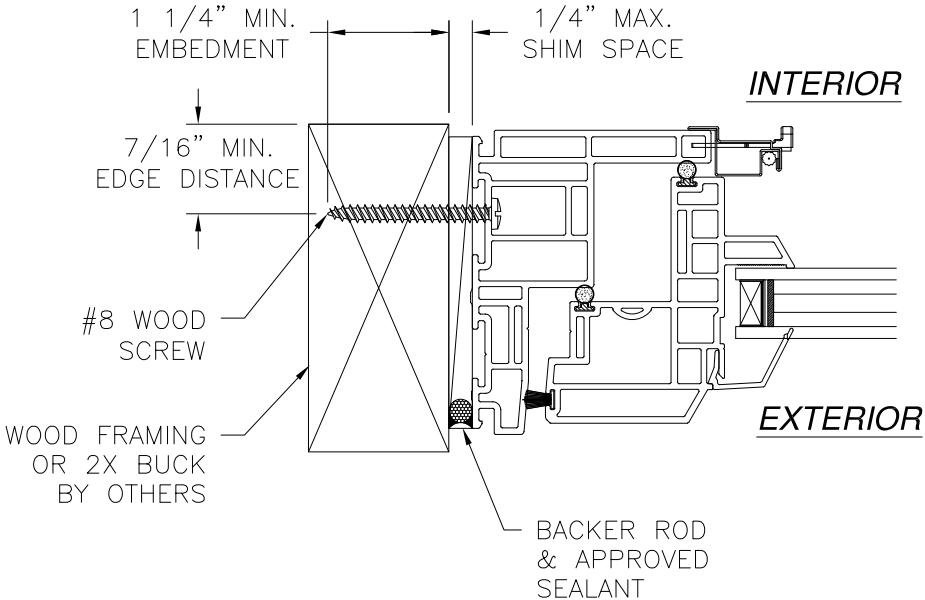


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION



HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING 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

SIGNED: 11/14/2023

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

9770 CASEMENT PVC WINDOW
NON-IMPACT
FINLESS INSTALLATION DETAILS

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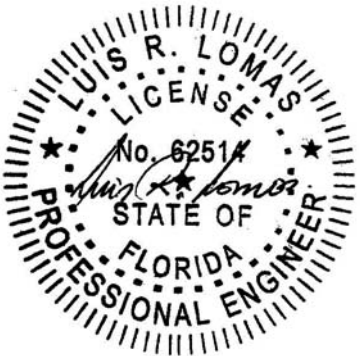
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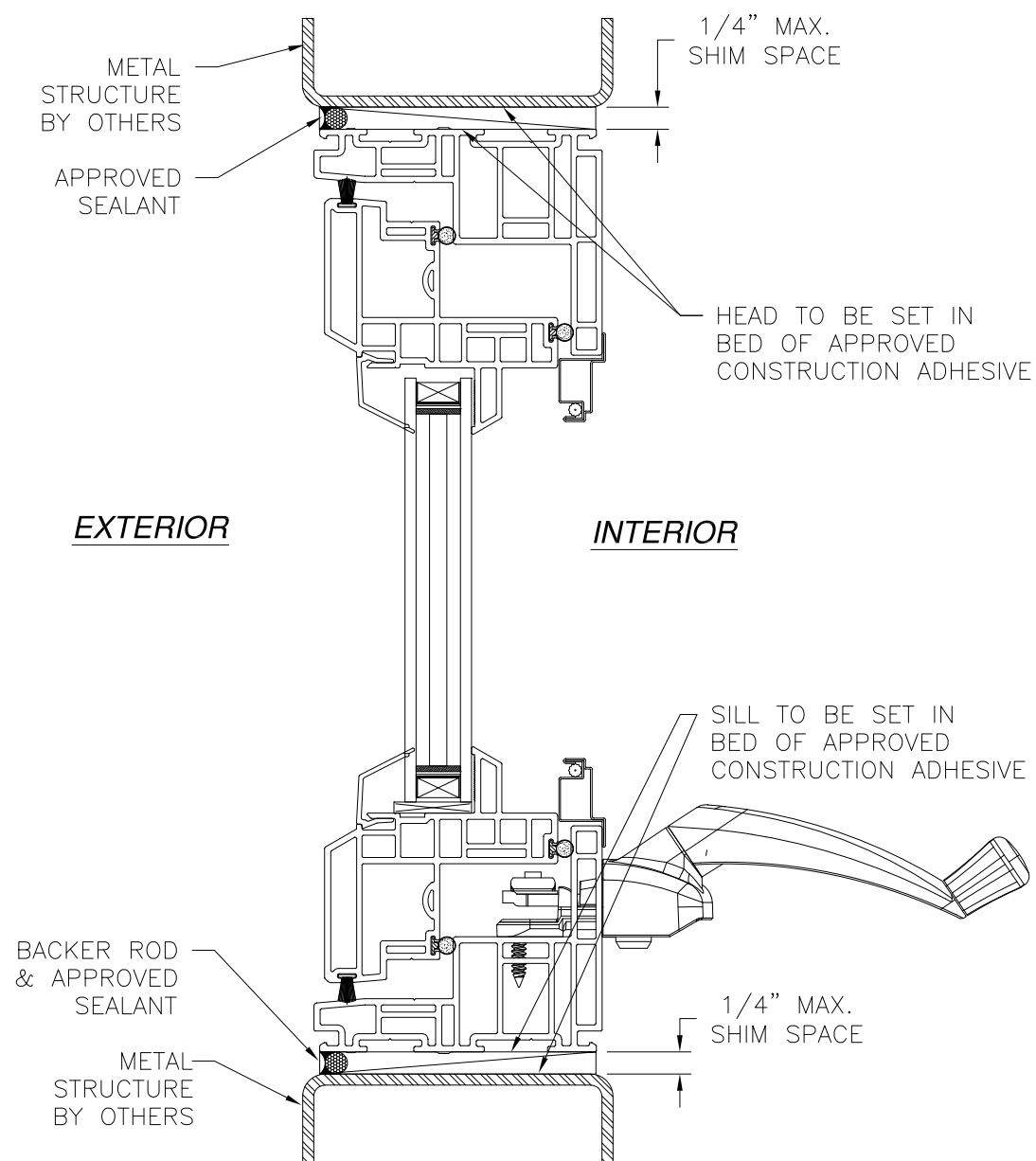
SHEET
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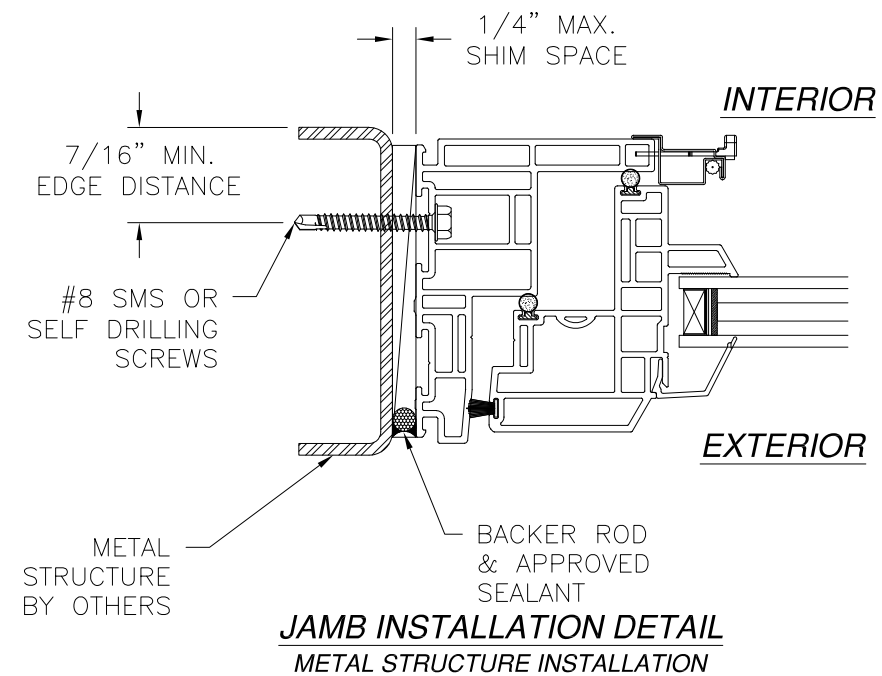


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



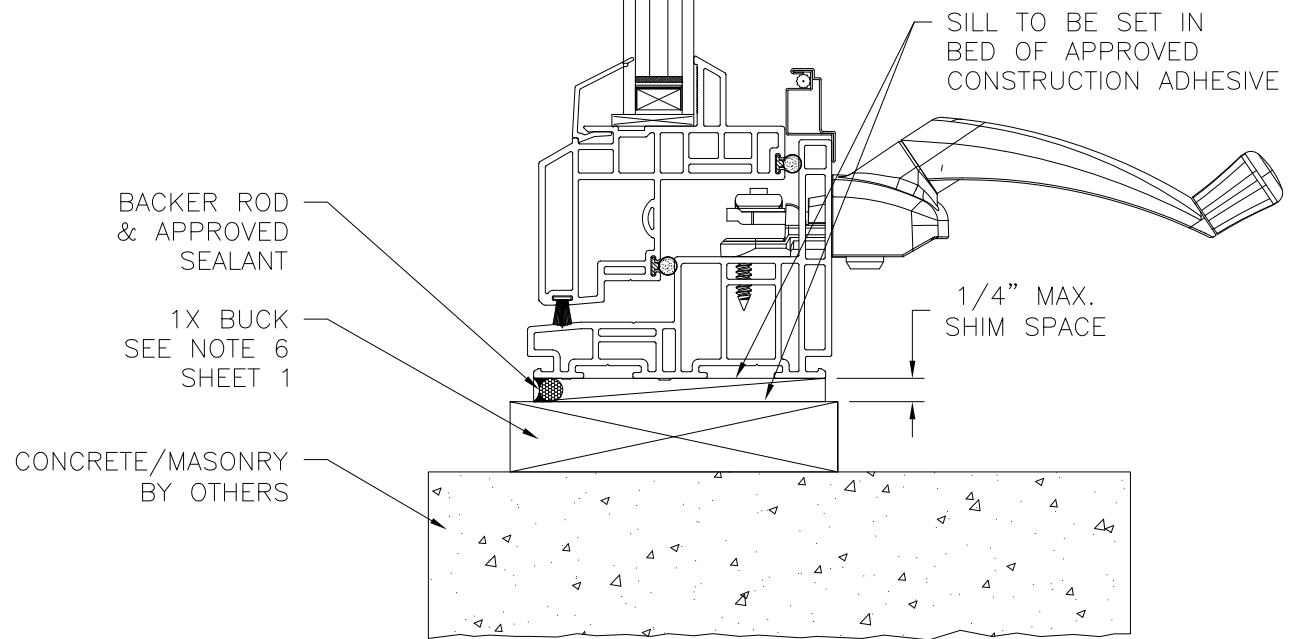
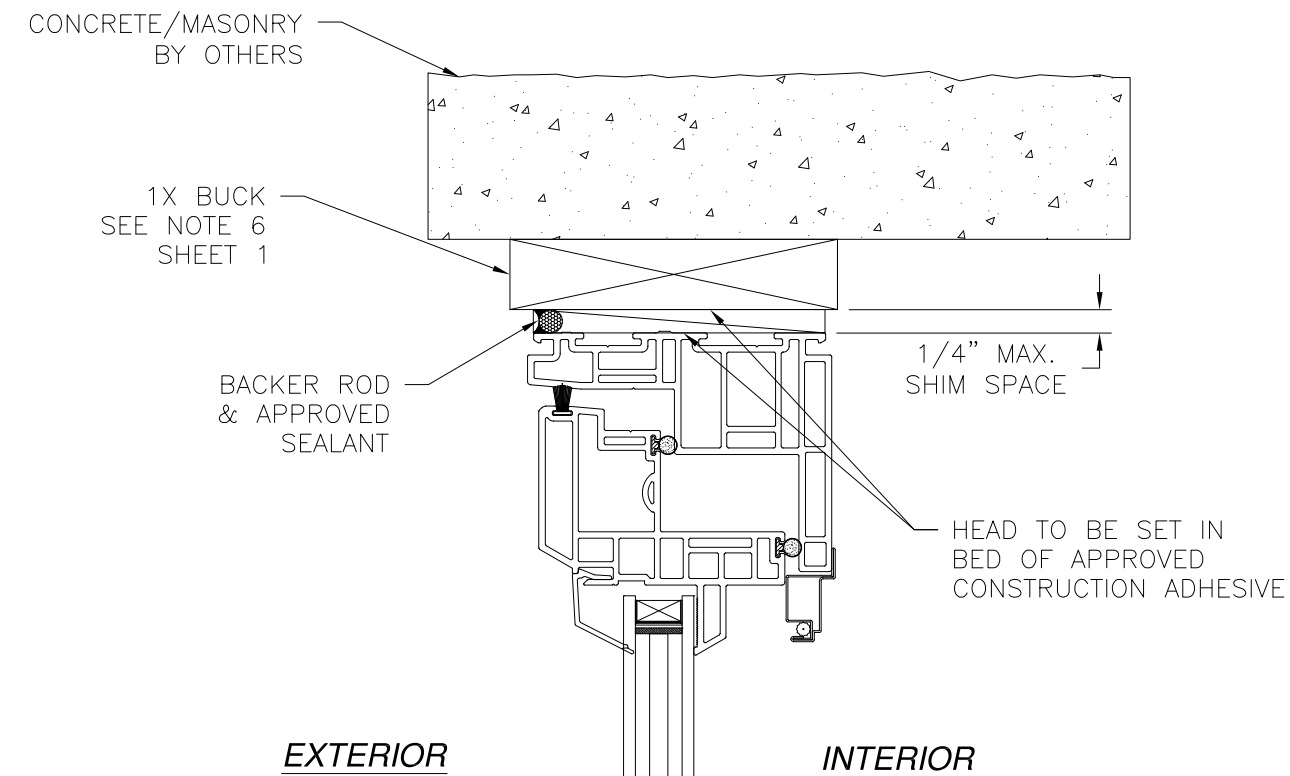
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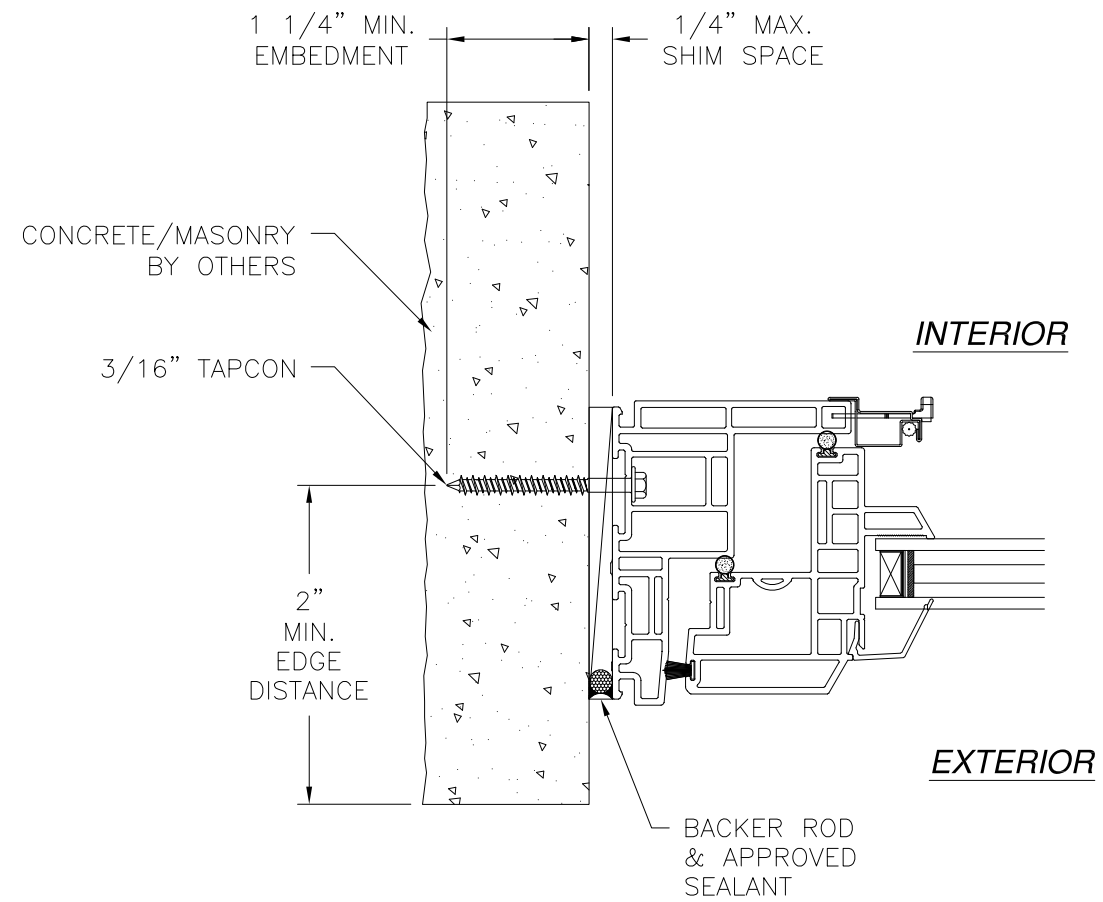
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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL

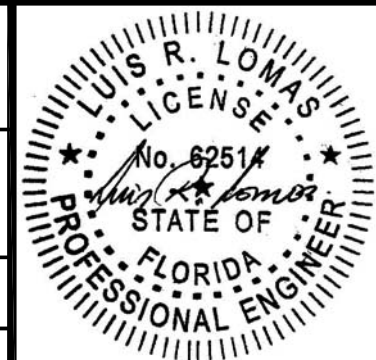


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

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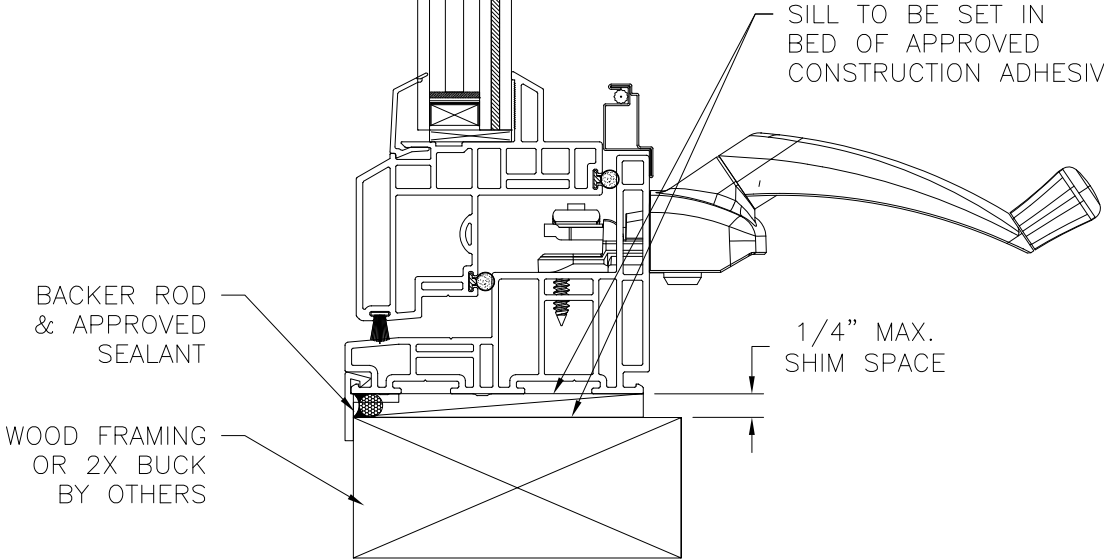
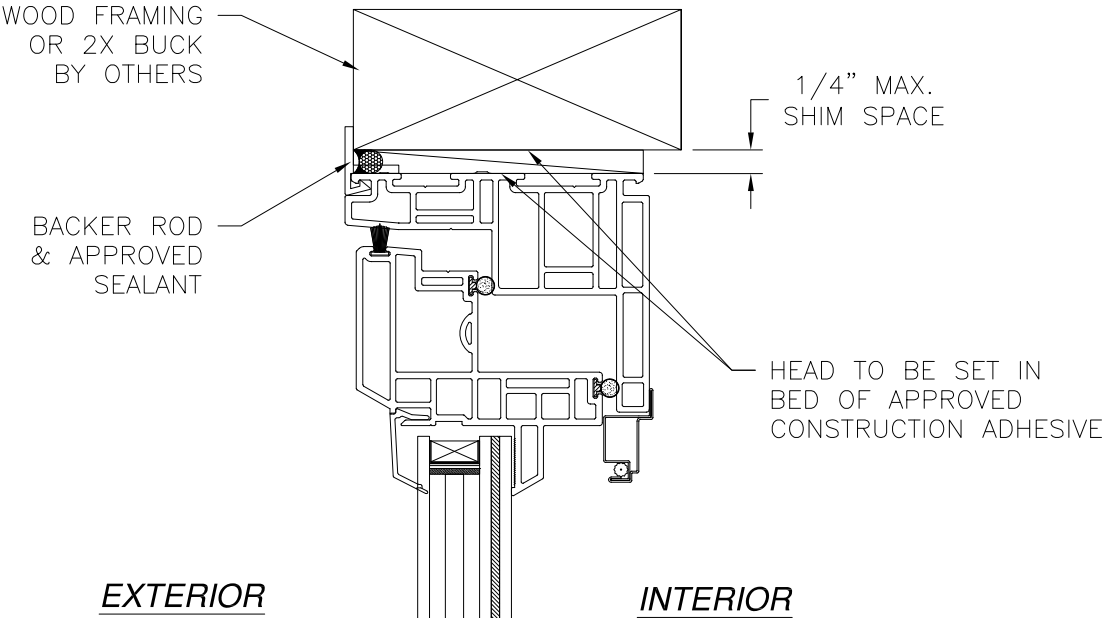
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

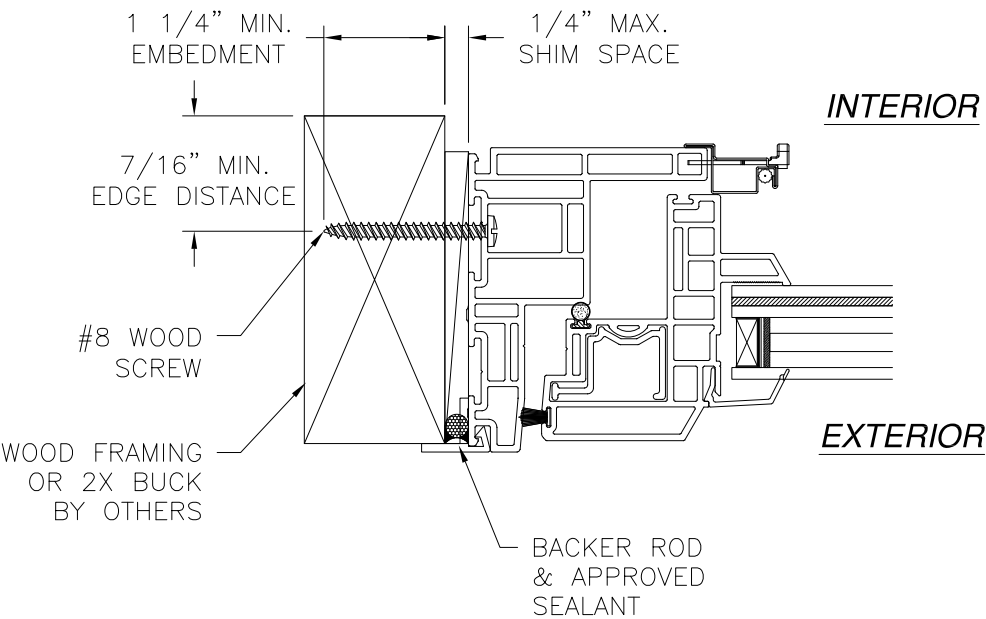


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VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION

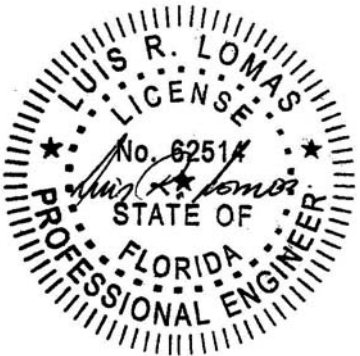


HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION

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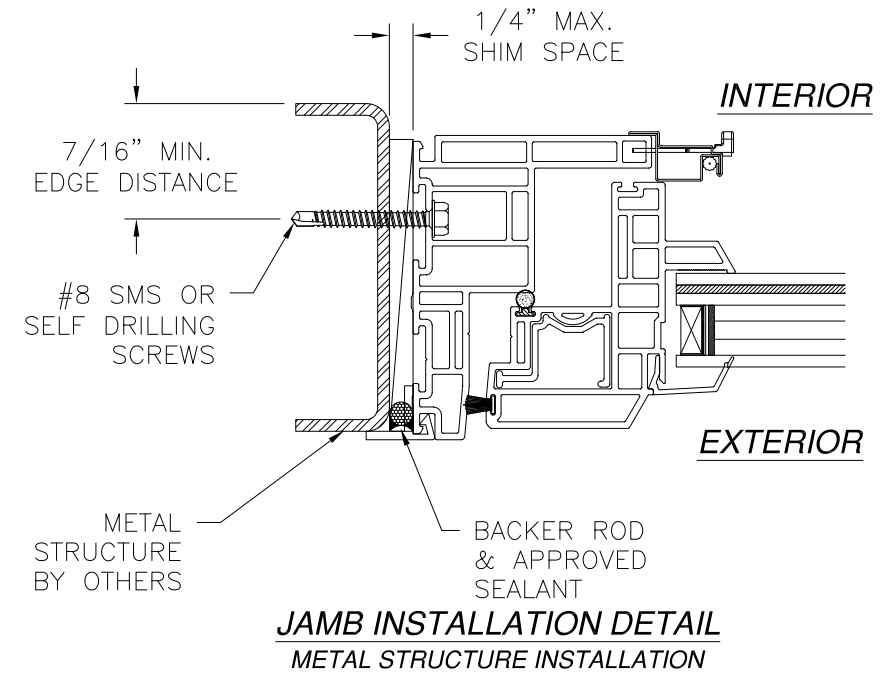
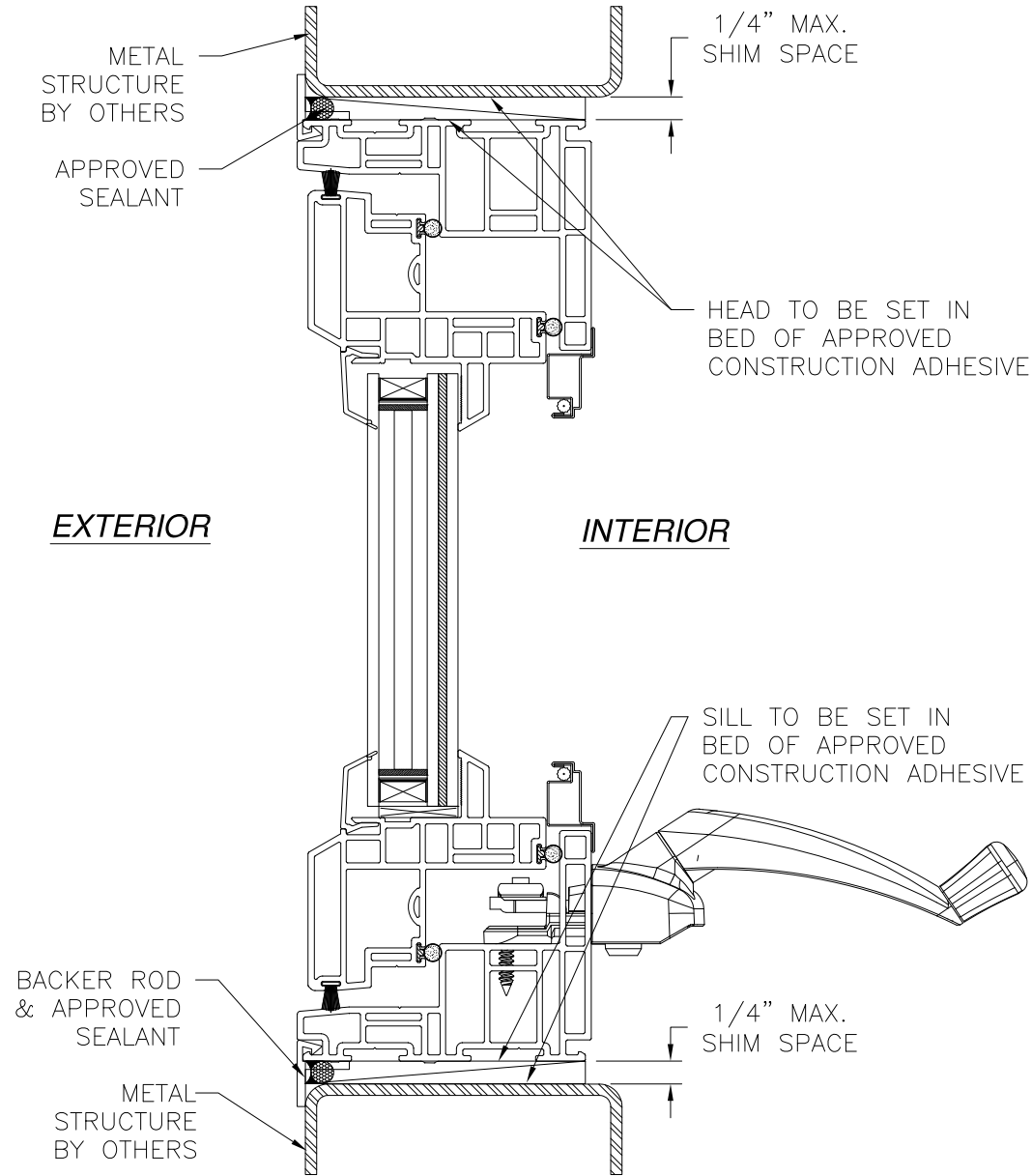
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9770 CASEMENT PVC WINDOW NON-IMPACT FLANGE INSTALLATION DETAILS		
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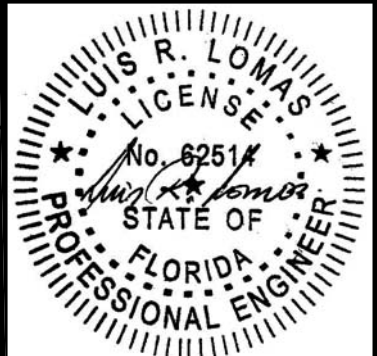
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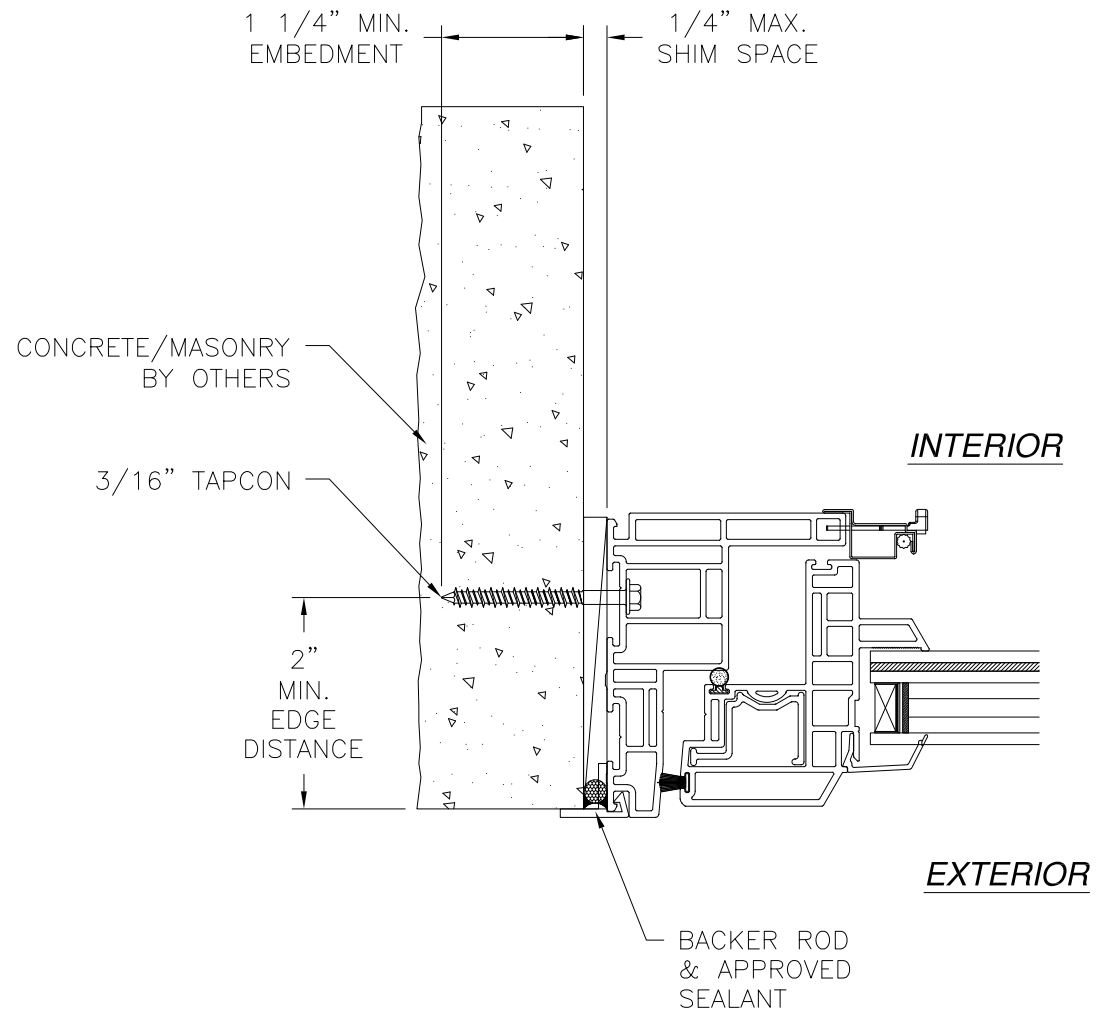
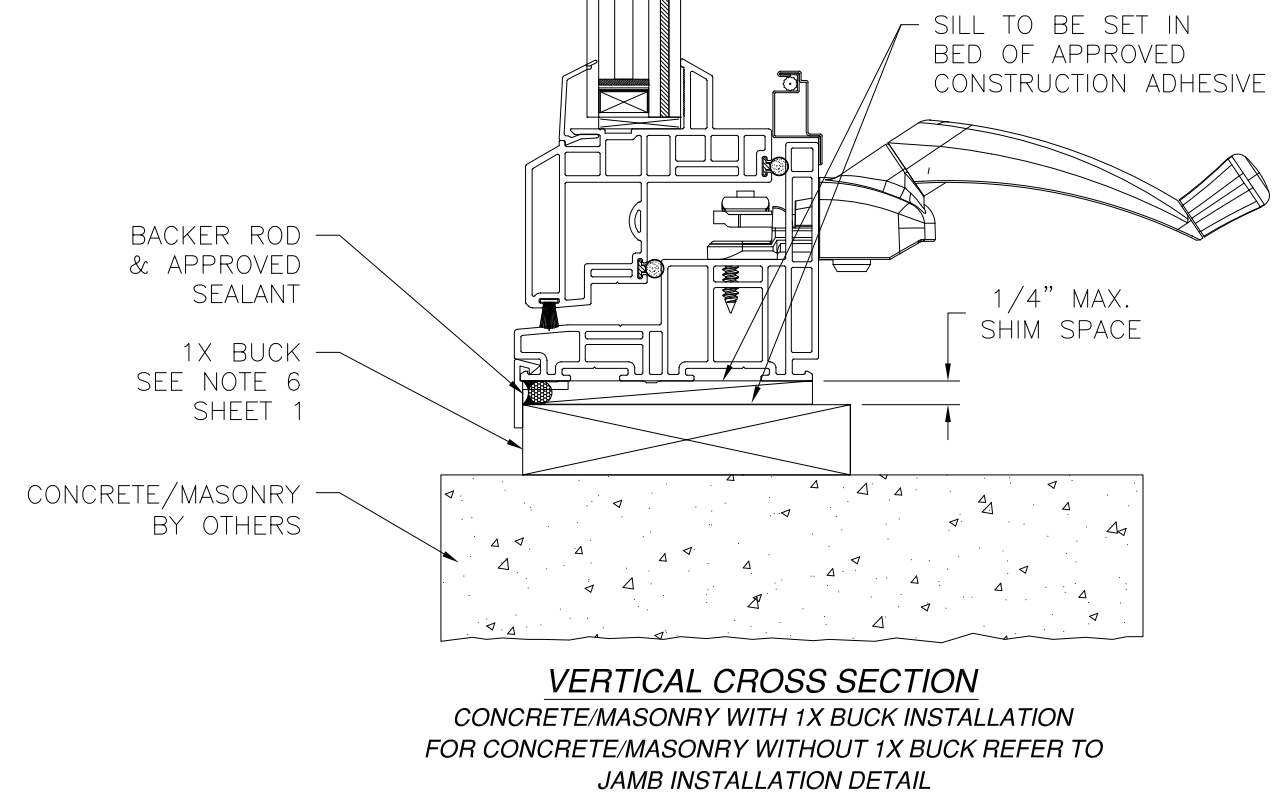
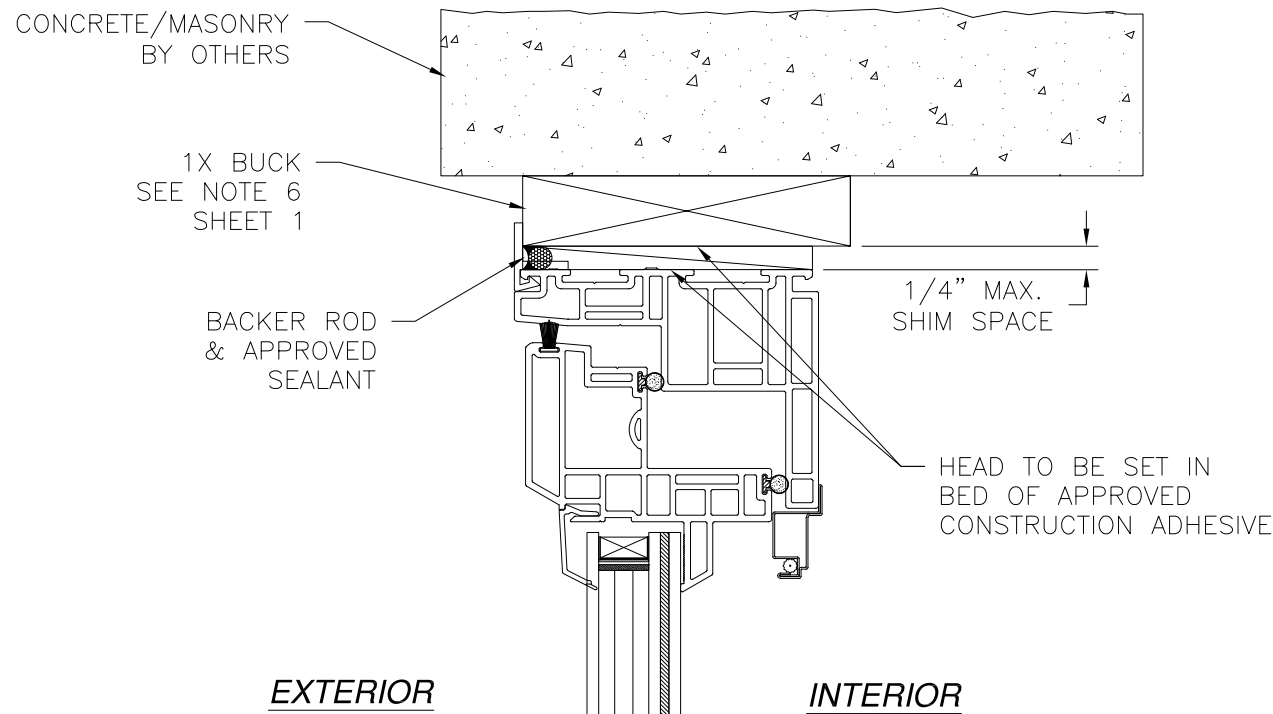
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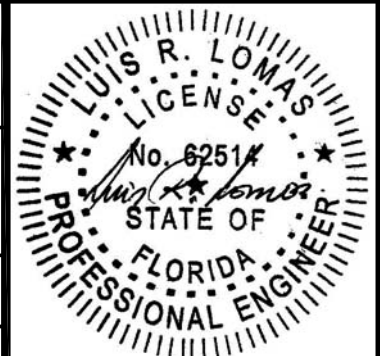


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

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APPROVED SEALANT BEHIND FIN

#6 WOOD SCREW

3/8" MIN EDGE DISTANCE

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

3/8" MIN EDGE DISTANCE

#6 WOOD SCREW

APPROVED SEALANT BEHIND FIN

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX SHIM SPACE

VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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WOOD FRAMING BY OTHERS

#6 WOOD SCREW

1 1/4" MIN. EMBEDMENT

APPROVED SEALANT BEHIND FIN

3/8" MIN EDGE DISTANCE

1/4" MAX SHIM SPACE

INTERIOR

EXTERIOR

JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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GRATZ, PA 17030-0370

9770 CASEMENT PVC WINDOW
NON-IMPACT
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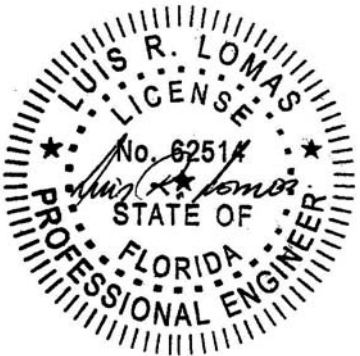
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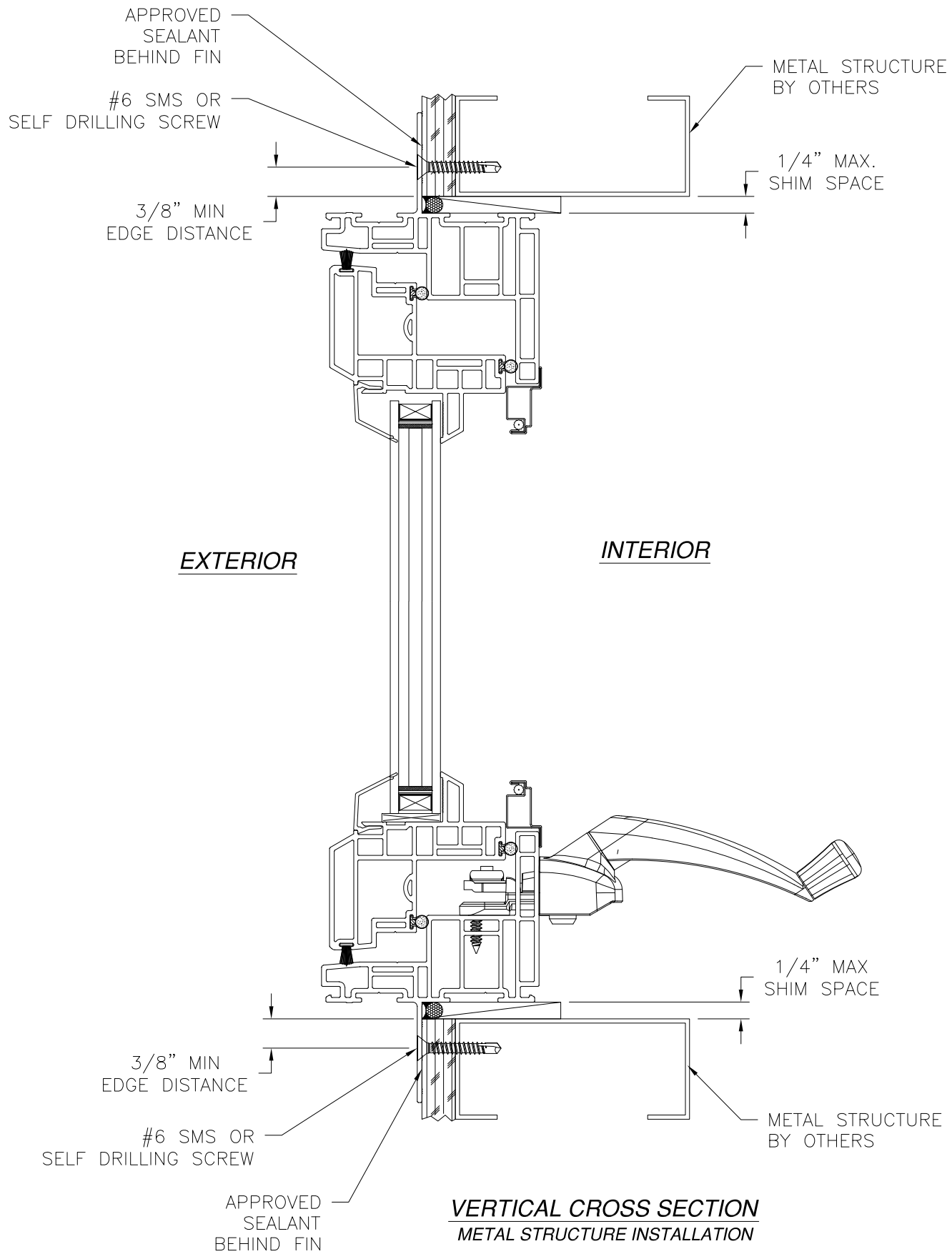
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9 OF 13

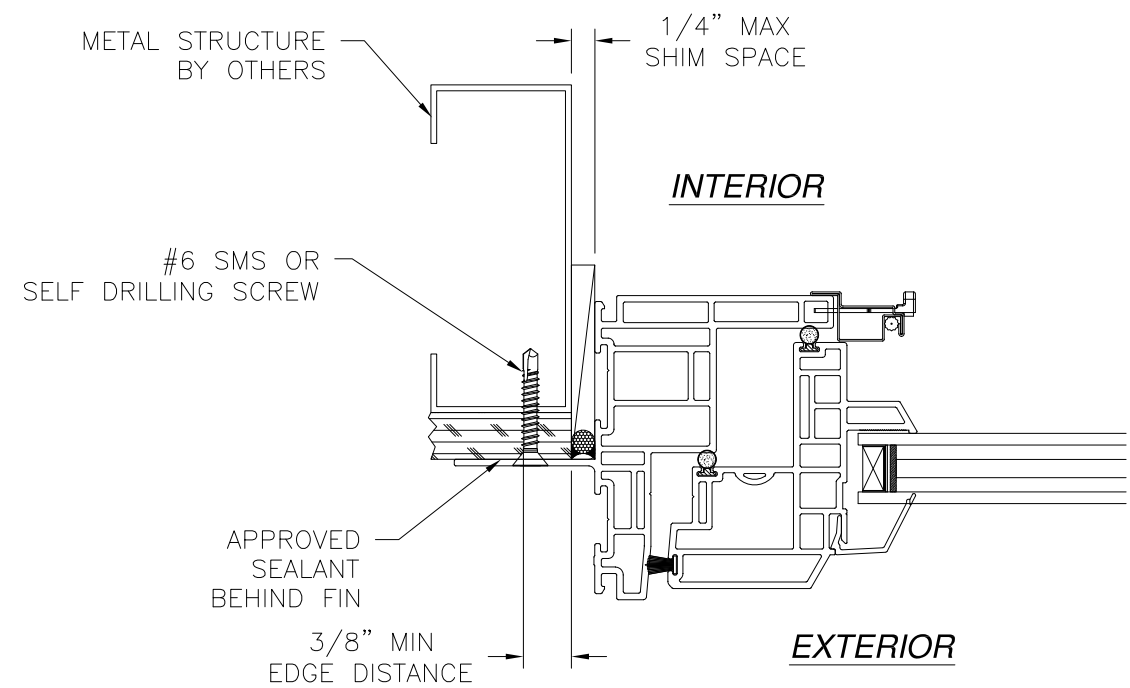
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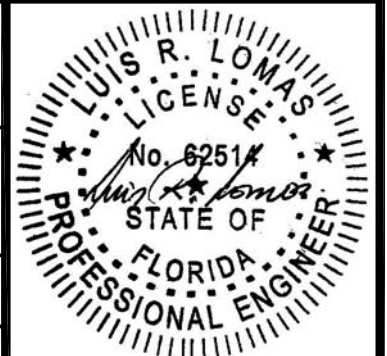


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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APPROVED SEALANT BEHIND FIN

#6 WOOD SCREW

3/8" MIN EDGE DISTANCE

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

3/8" MIN EDGE DISTANCE

#6 WOOD SCREW

APPROVED SEALANT BEHIND FIN

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX SHIM SPACE

VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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WOOD FRAMING BY OTHERS

#6 WOOD SCREW

1 1/4" MIN. EMBEDMENT

APPROVED SEALANT BEHIND FIN

3/8" MIN EDGE DISTANCE

1/4" MAX SHIM SPACE

INTERIOR

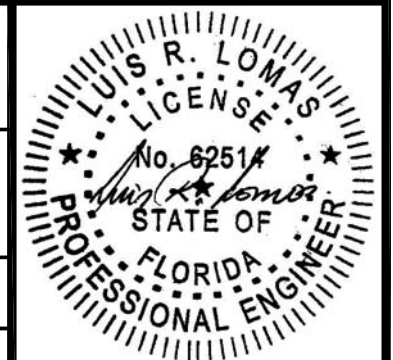
EXTERIOR

JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

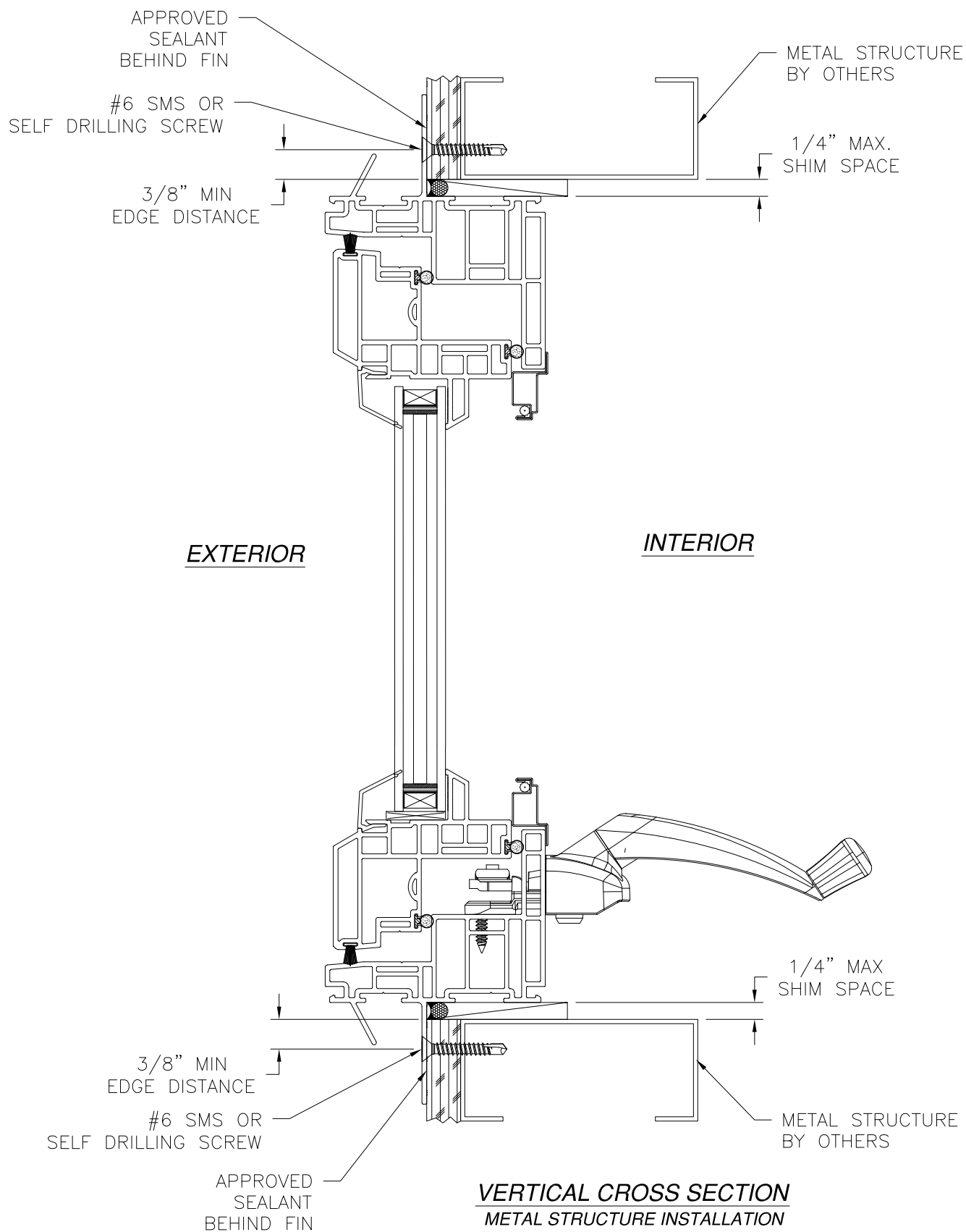
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 11/14/2023

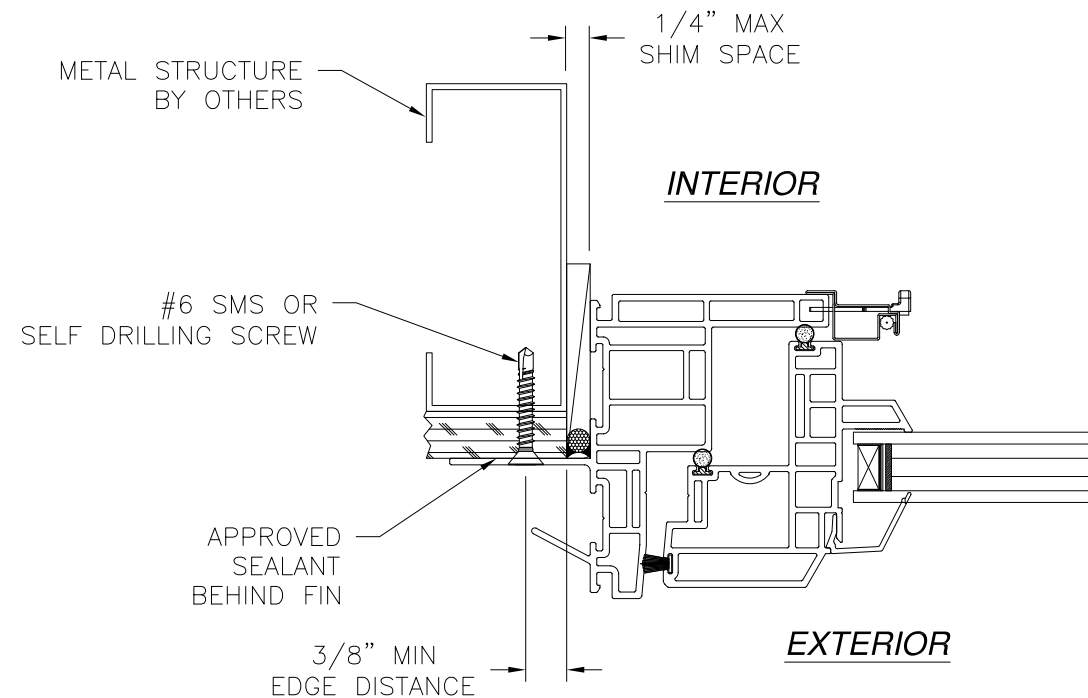
MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
9770 CASEMENT PVC WINDOW NON-IMPACT FIN INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02221	REV B
SCALE NTS	DATE 09/06/13	SHEET 11 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



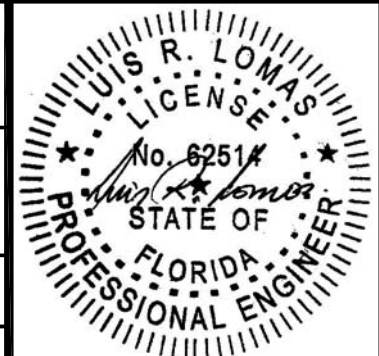
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

- 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
B	REVISED PER NEW CODE	10/30/2023	R.L.

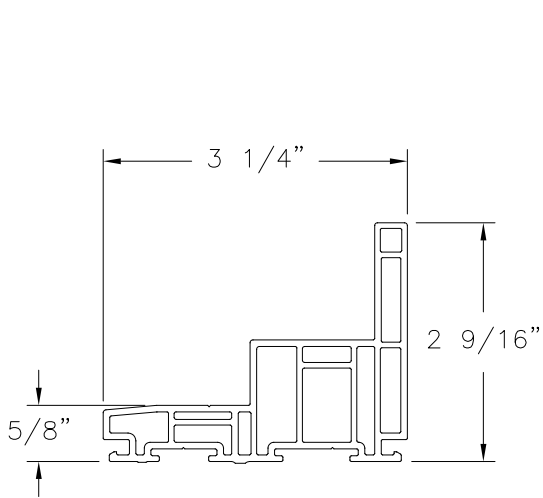
MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
9770 CASEMENT PVC WINDOW NON-IMPACT FIN INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02221	REV B
SCALE NTS	DATE 09/06/13	SHEET 12 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/14/2023

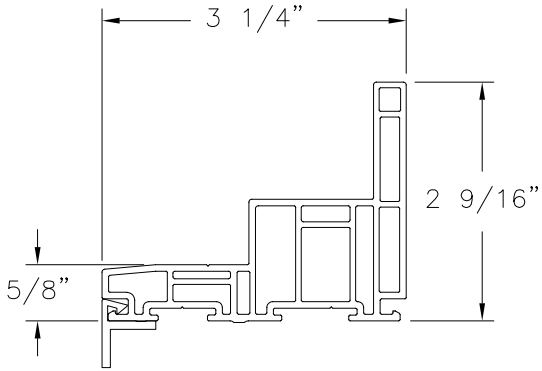


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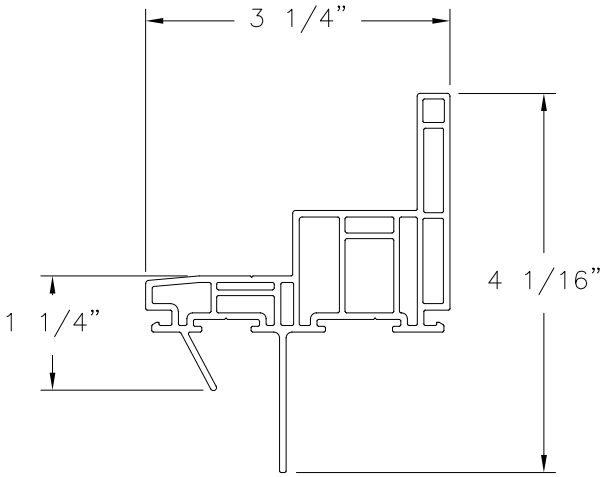
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	10/30/2023	R.L.



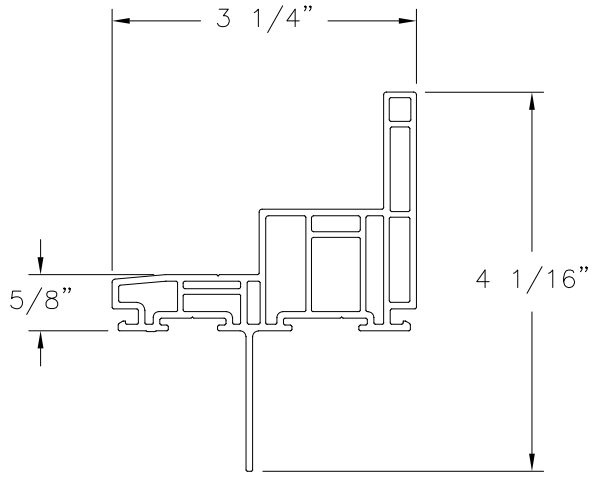
MAIN FRAME
FINLESS INSTALLATION
PVC (V-911)



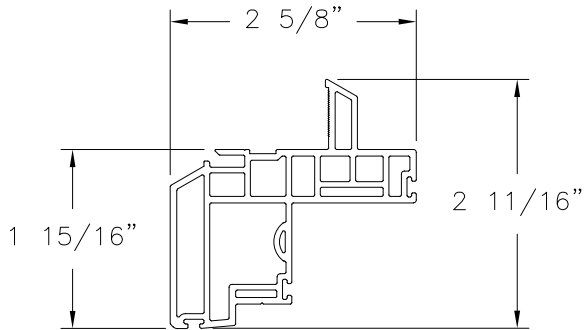
MAIN FRAME
FLANGE INSTALLATION
PVC (V-911)



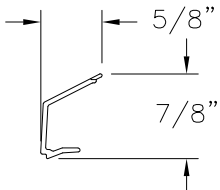
MAIN FRAME WITH J CHANNEL
FIN INSTALLATION
PVC (V-899)



MAIN FRAME
FIN INSTALLATION
PVC (V-910)



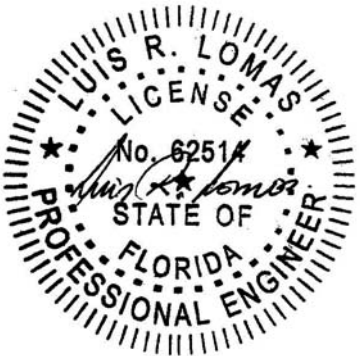
SASH
PVC (V-900)



GLAZING BEAD
PVC (V-902)

SIGNED: 11/14/2023

MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
9770 CASEMENT PVC WINDOW NON-IMPACT COMPONENTS		
DRAWN: V.L.	DWG NO. 08-02221	REV B
SCALE NTS	DATE 09/06/13	SHEET 13 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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