

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.

- NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
 2. WOOD FRAMING, METAL STRUCTURE 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 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".
 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 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. 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.
15. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #8 OR #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" OR 1/4" 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.
17. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #8 OR #10 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.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. 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:
 - 19.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 19.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 19.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - 19.4. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI 1/8" THICK MINIMUM

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

SERIES 1620/1621 SH REINFORCED
NON-IMPACT 37" x 72"
NOTES

DRAWN:
A.R.

DWG NO.
08-03159

REV
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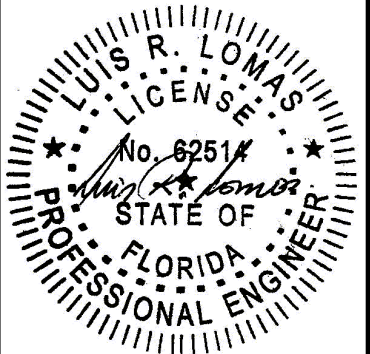
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DATE
08/16/17

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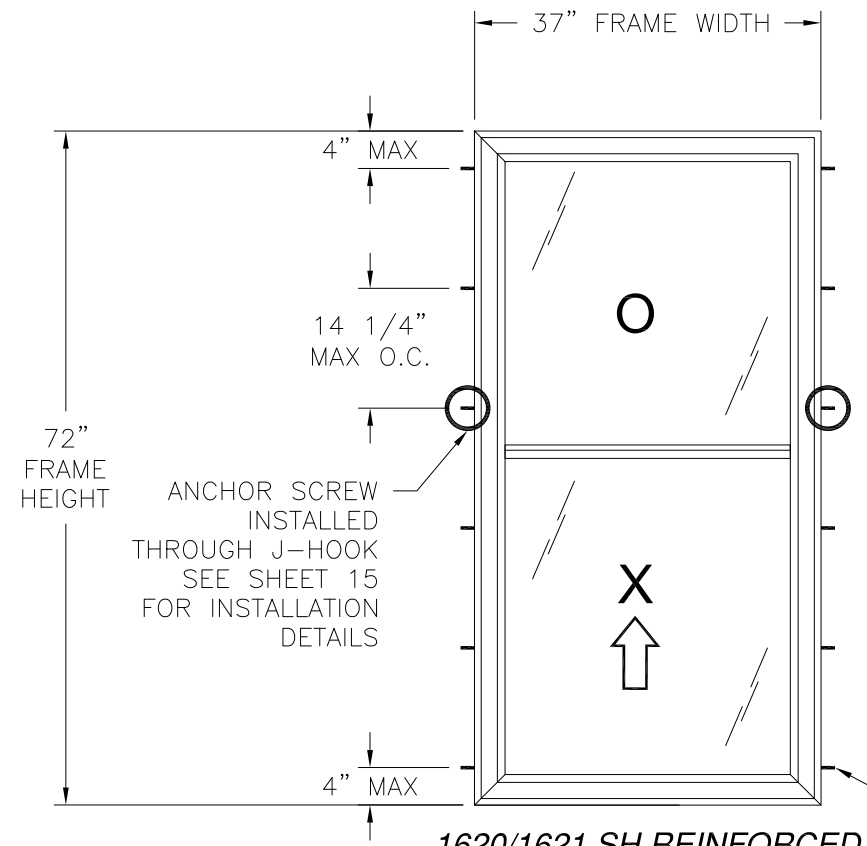
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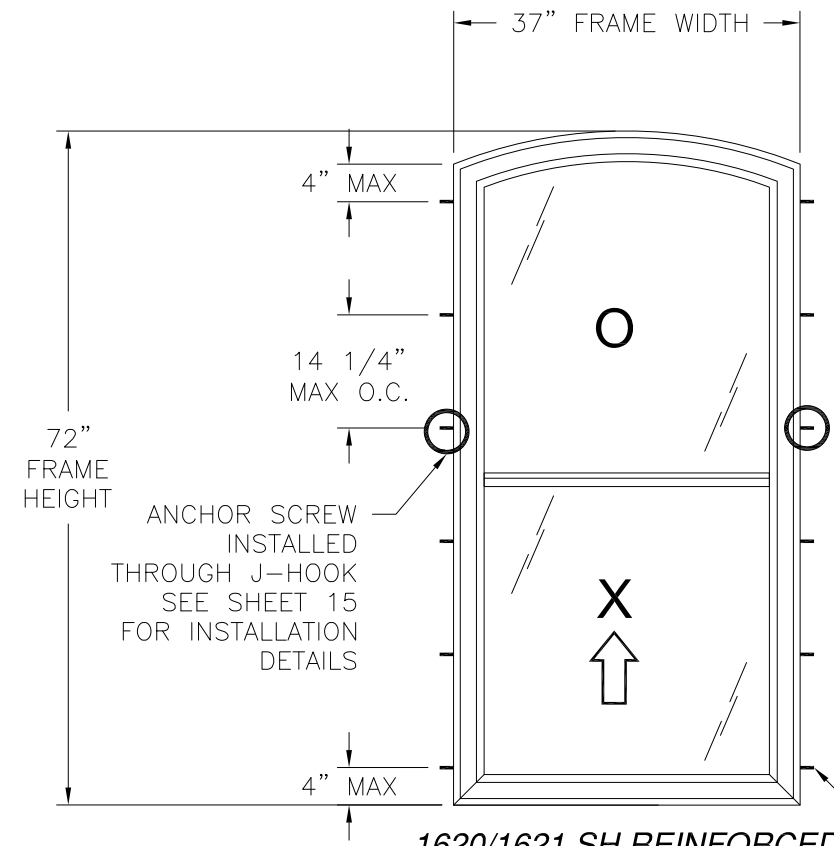
Luis R. Lomas P.E.
FL No.: 62514

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**1620/1621 SH REINFORCED
RECTANGULAR**
EXTERIOR VIEW
FINLESS & FLANGE INSTALLATION
WITH #8 ANCHOR AND 3/16" TAPCON

FOR NUMBER
OF ANCHORS
REQUIRED
SEE CHART #1



**1620/1621 SH REINFORCED
DESIGNER**
EXTERIOR VIEW
FINLESS & FLANGE INSTALLATION
WITH #8 ANCHOR AND 3/16" TAPCON

FOR NUMBER
OF ANCHORS
REQUIRED
SEE CHART #1

CHART #1			
Number of anchor locations required			
Frame Height (in)	Frame Width (in)		
	24.00 Jamb	30.00 Jamb	37.00 Jamb
24.00	3	3	3
30.00	3	3	3
36.00	3	3	3
42.00	4	4	4
48.00	4	4	4
54.00	5	5	5
60.00	5	5	5
66.00	6	6	6
72.00	6	6	6

DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-67.0PSF	NONE

37" X 72" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 18.5" FT²

- NOTES:
- SASH SIZE: 34 1/8" X 35 1/2"
 - D.L.O.: 32 3/8" X 32 1/4"

HARDWARE SCHEDULE	
A.	(2) RECESSED CAM LOCK 7" FROM STILES AT SASH INTERIOR MEETING RAIL
B.	(2) METAL PIVOT BAR IN CORNERS OF STILES AND BOTTOM RAIL
C.	(2) SURFACE MOUNTED TILT LATCH AT CORNERS OF STILES AND INTERIOR MEETING RAIL
D.	(4) METAL COIL BALANCES AT SASH TRACK OF JAMB
E.	ALUMINUM REINFORCEMENT (M-2266) AT STILES
F.	ALUMINUM REINFORCEMENT (M-2115) AT LOCK RAIL
G.	ALUMINUM REINFORCEMENT (AE-000162) AT FIXED MEETING RAIL

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650 WEST MARKET STREET
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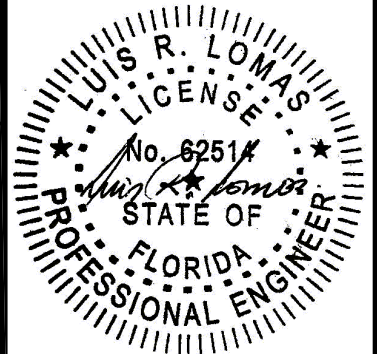
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FINLESS & FLANGE ELEVATIONS

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SCALE NTS DATE 08/16/17 SHEET 2 OF 16

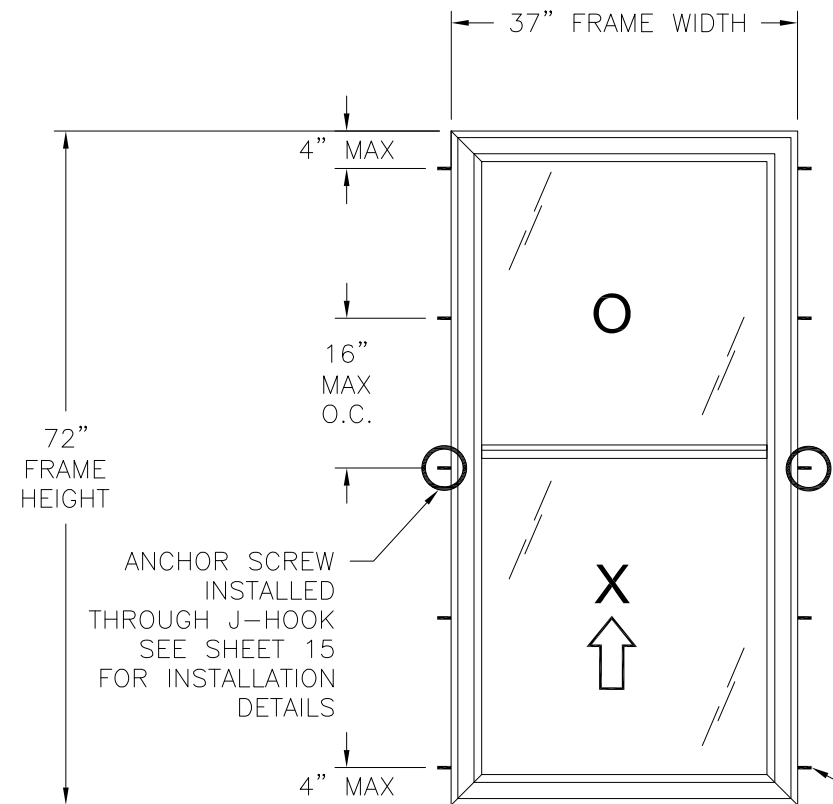
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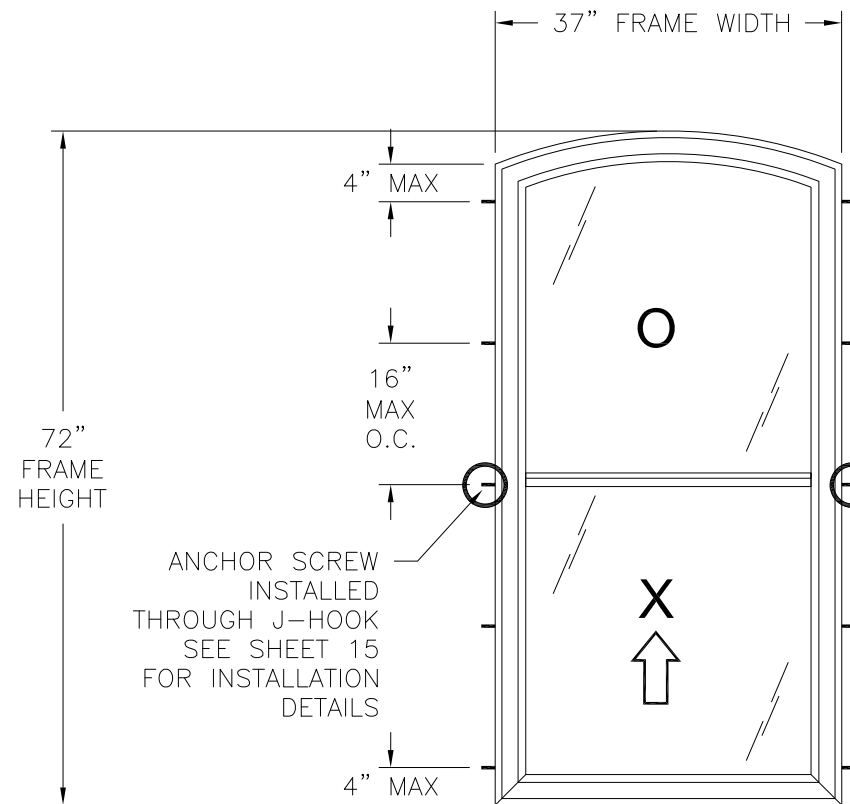
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**1620/1621 SH REINFORCED
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FINLESS & FLANGE INSTALLATION
WITH #10 ANCHOR AND 1/4" TAPCON

FOR NUMBER
OF ANCHORS
REQUIRED
SEE CHART #2



**1620/1621 SH REINFORCED
DESIGNER**
EXTERIOR VIEW
FINLESS & FLANGE INSTALLATION
WITH #10 ANCHOR AND 1/4" TAPCON

FOR NUMBER
OF ANCHORS
REQUIRED
SEE CHART #2

CHART #2			
Number of anchor locations required			
Frame Height (in)	Frame Width (in)		
	24.00 Jamb	30.00 Jamb	37.00 Jamb
24.00	2	2	2
30.00	3	3	3
36.00	3	3	3
42.00	4	4	4
48.00	4	4	4
54.00	4	4	4
60.00	5	5	5
66.00	5	5	5
72.00	5	5	5

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+50.0/-67.0PSF	NONE

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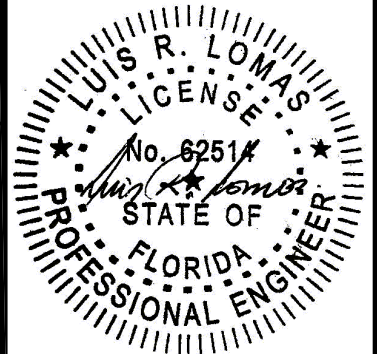
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NON-IMPACT 37" x 72"
FINLESS & FLANGE ELEVATIONS

DRAWN: A.R. DWG NO. 08-03159 REV D

SCALE NTS DATE 08/16/17 SHEET 3 OF 16

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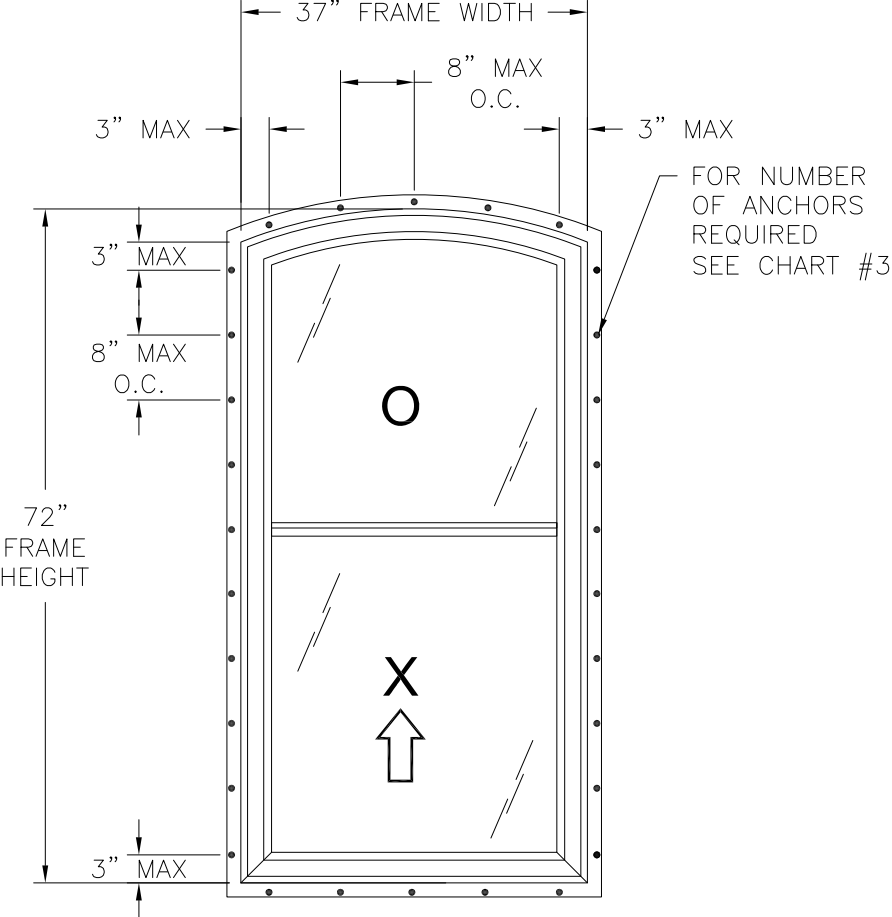
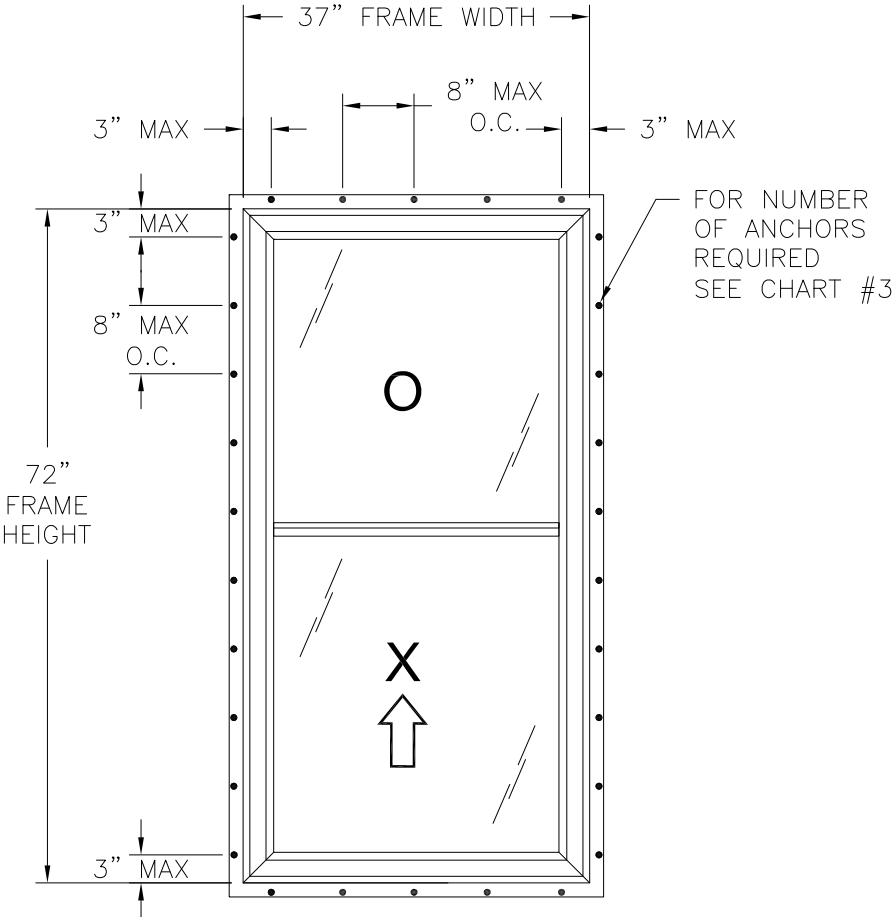


CHART #3						
Number of anchor locations required						
Frame Height (in)	Frame Width (in)					
	24.00		30.00		37.00	
	H & S	Jamb	H & S	Jamb	H & S	Jamb
24.00	4	4	4	4	5	4
30.00	4	4	4	4	5	4
36.00	4	5	4	5	5	5
42.00	4	6	4	6	5	6
48.00	4	7	4	7	5	7
54.00	4	7	4	7	5	7
60.00	4	8	4	8	5	8
66.00	4	9	4	9	5	9
72.00	4	10	4	10	5	10

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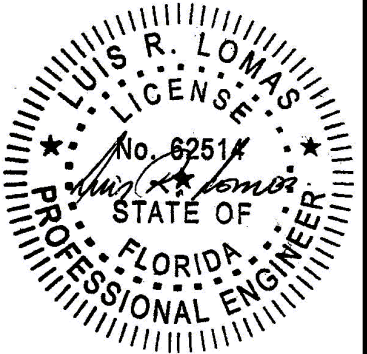
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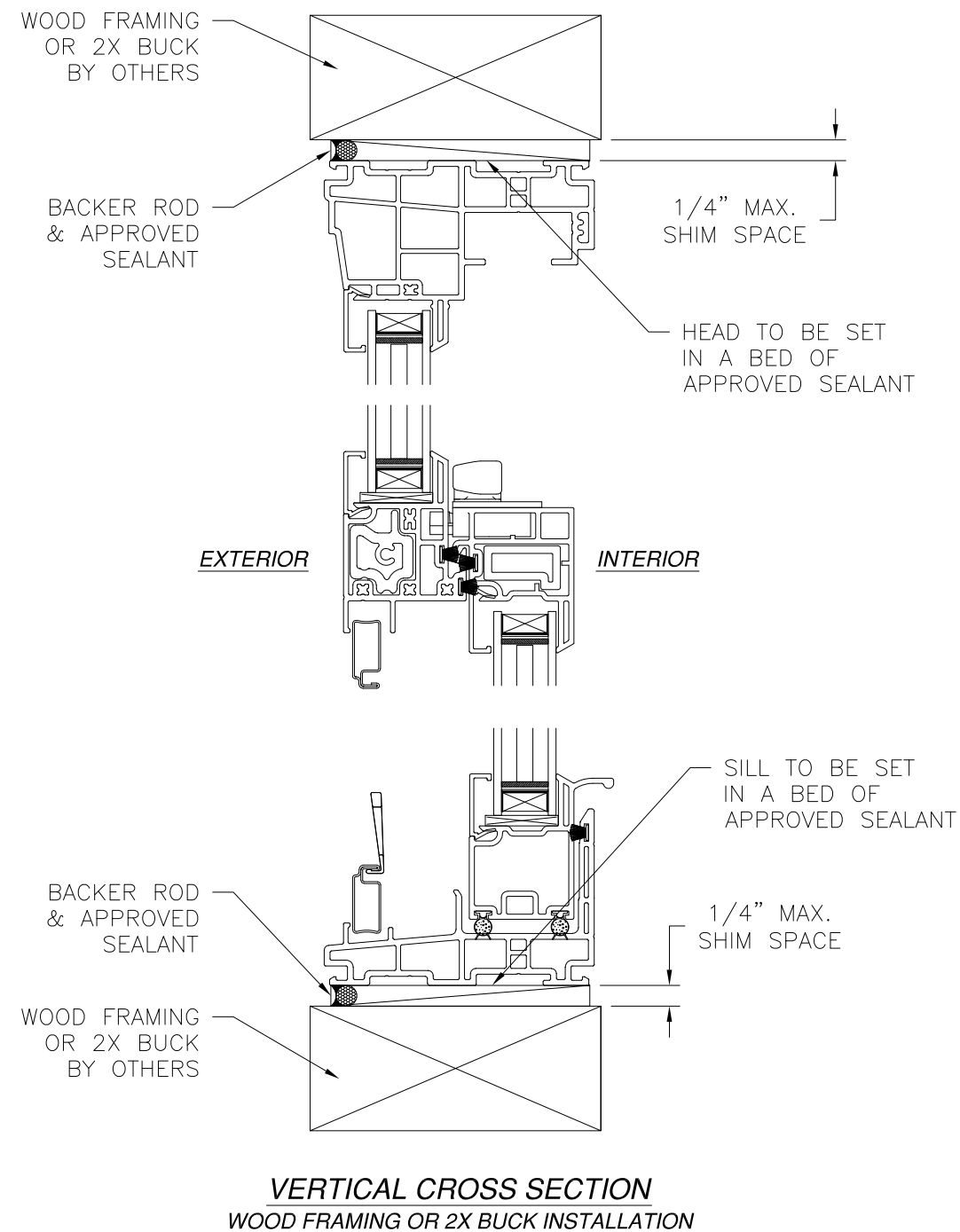
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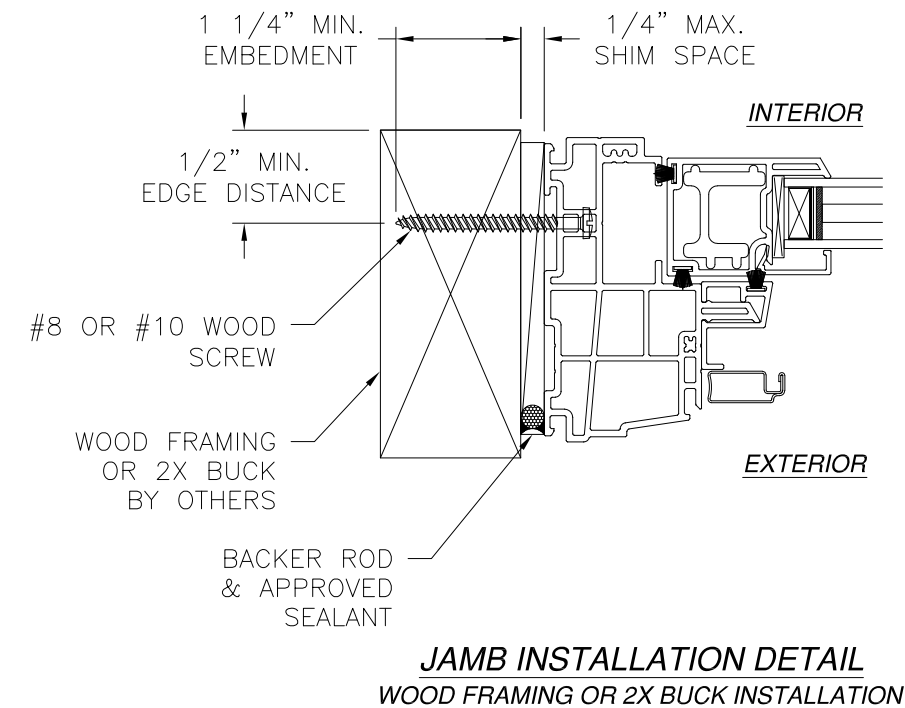


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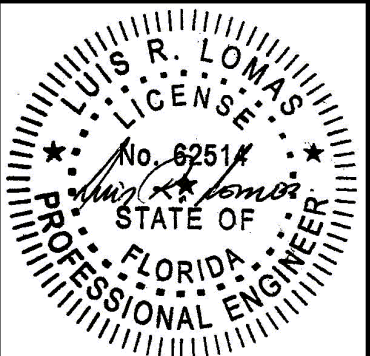


- NOTES:
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 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



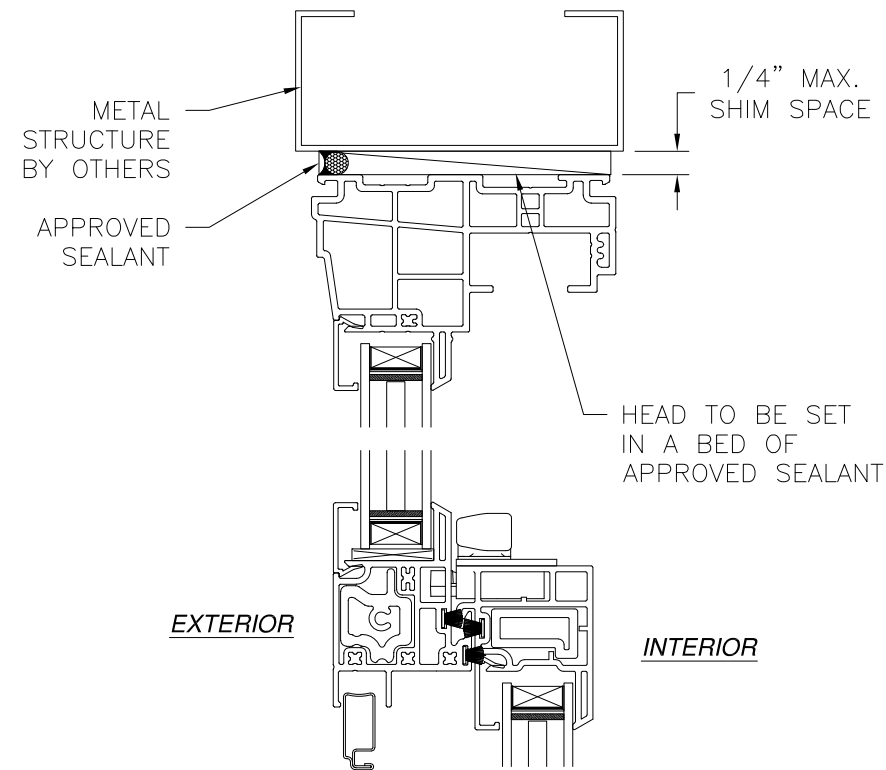
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MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 37" x 72" FINLESS INSTALLATION DETAILS		
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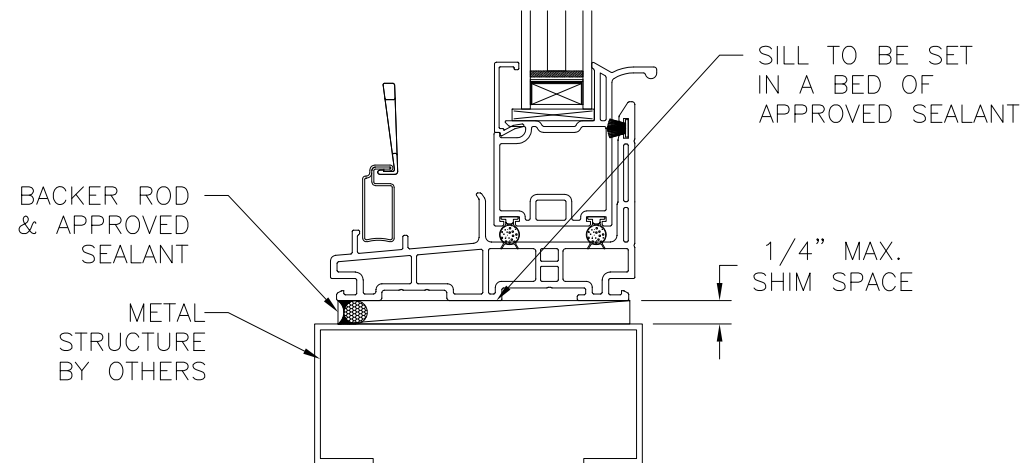
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EXTERIOR

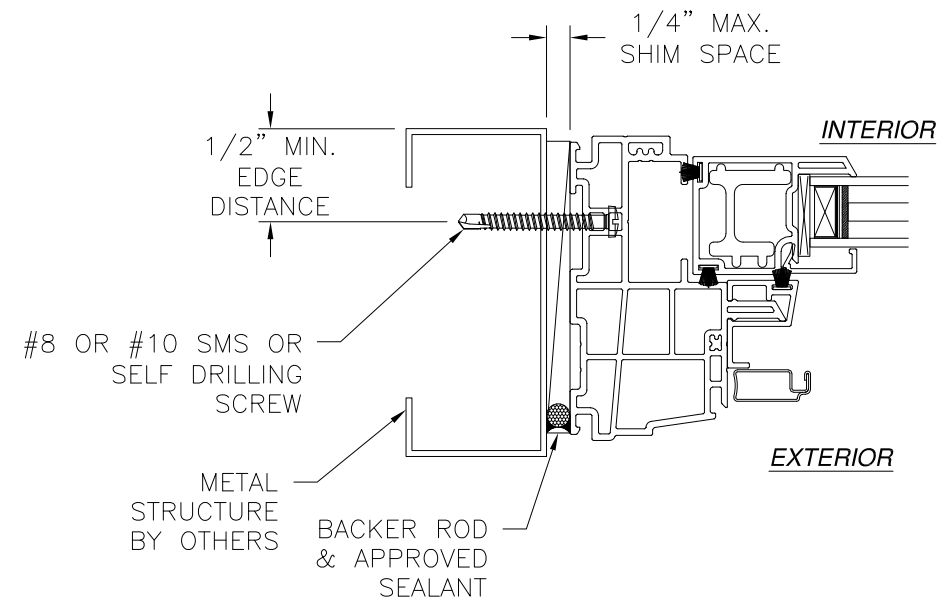
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

NOTES:

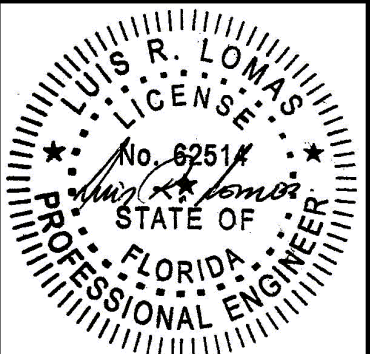
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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

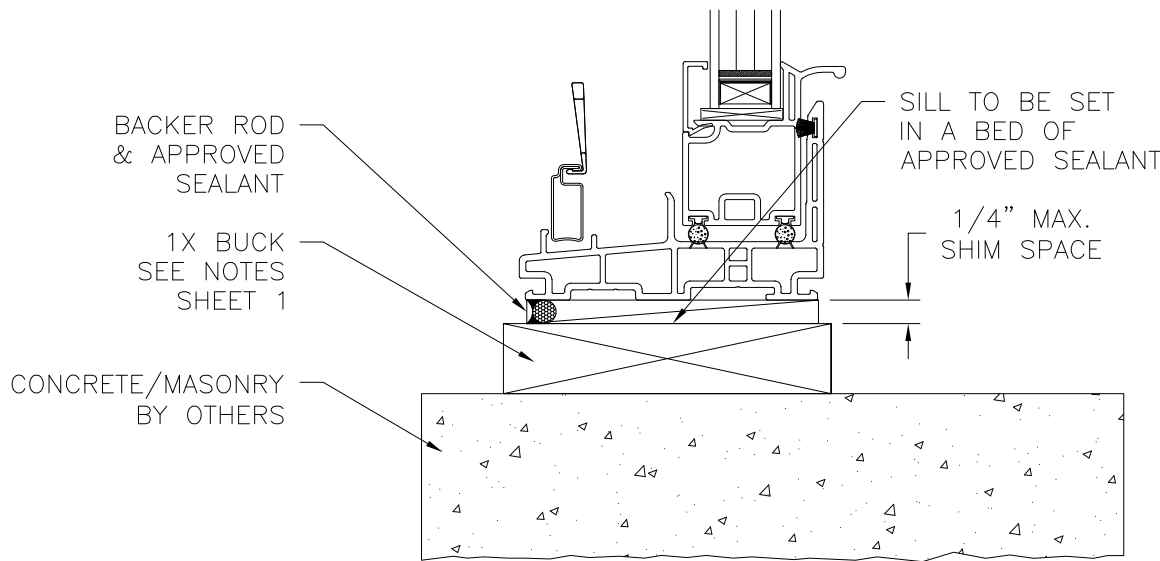
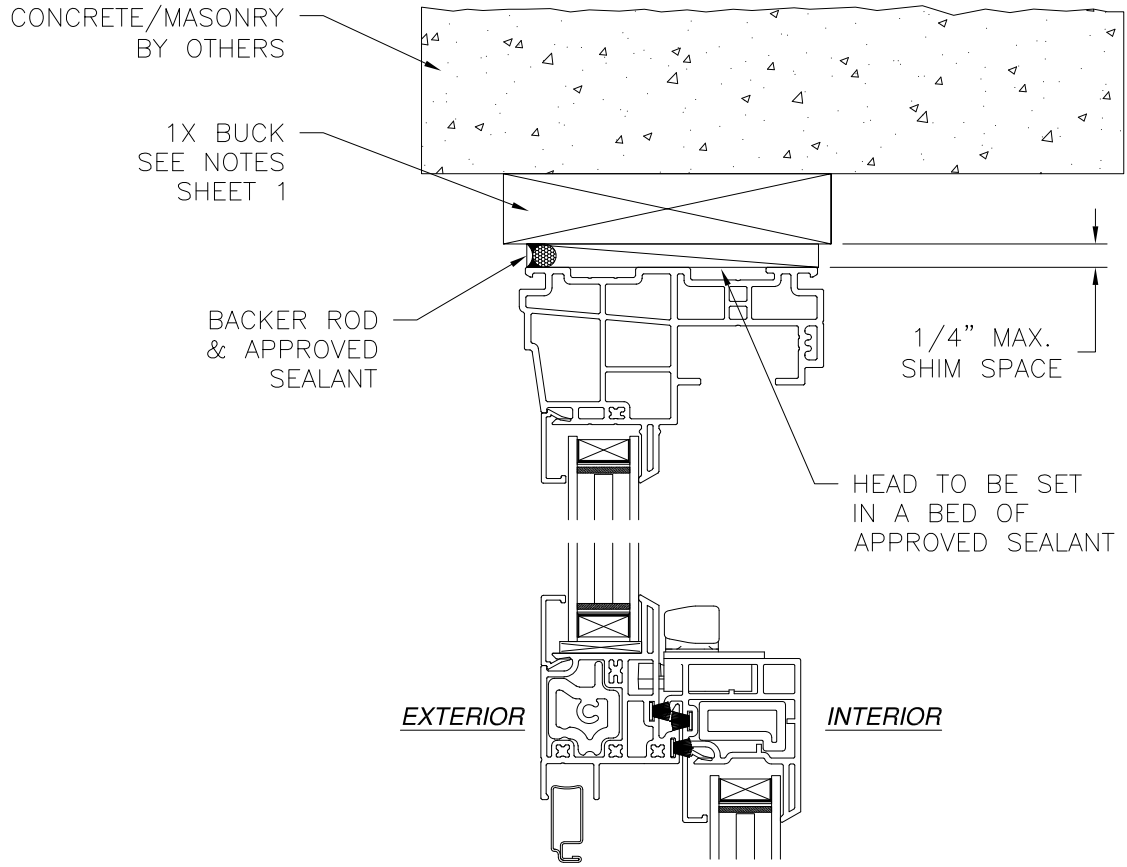
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 37" x 72" FINLESS INSTALLATION DETAILS		
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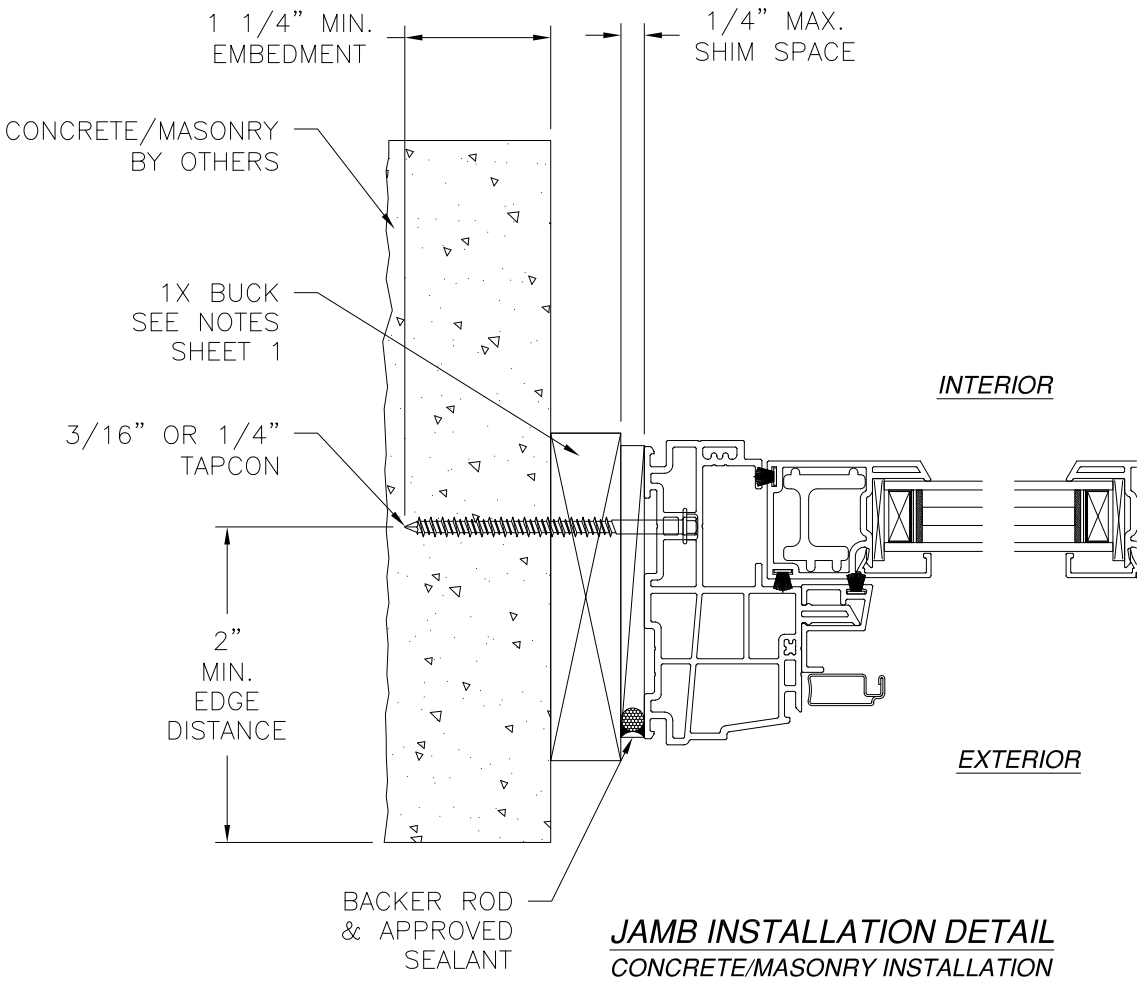
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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

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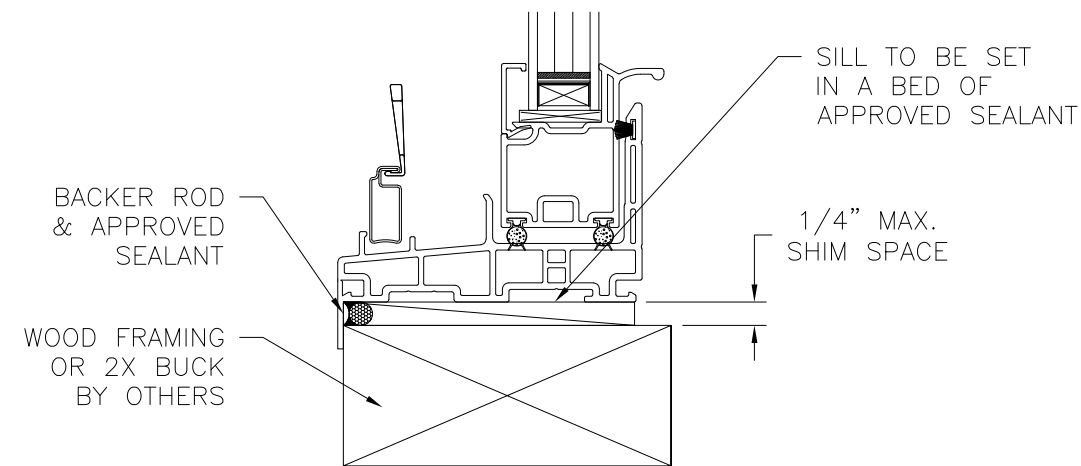
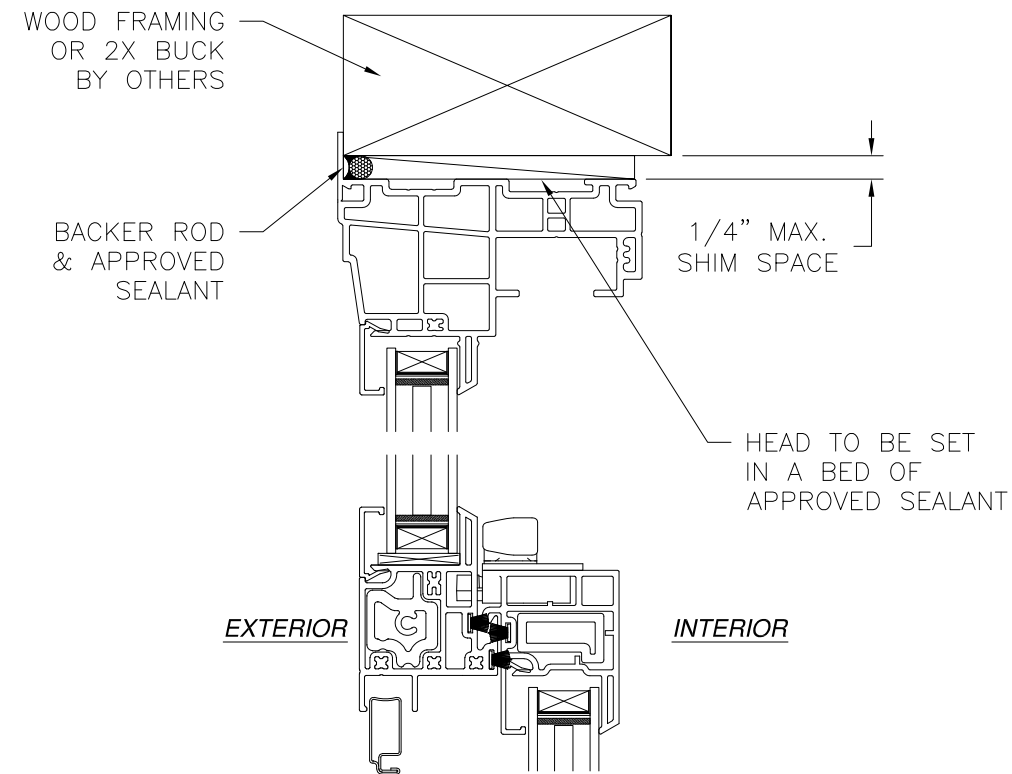
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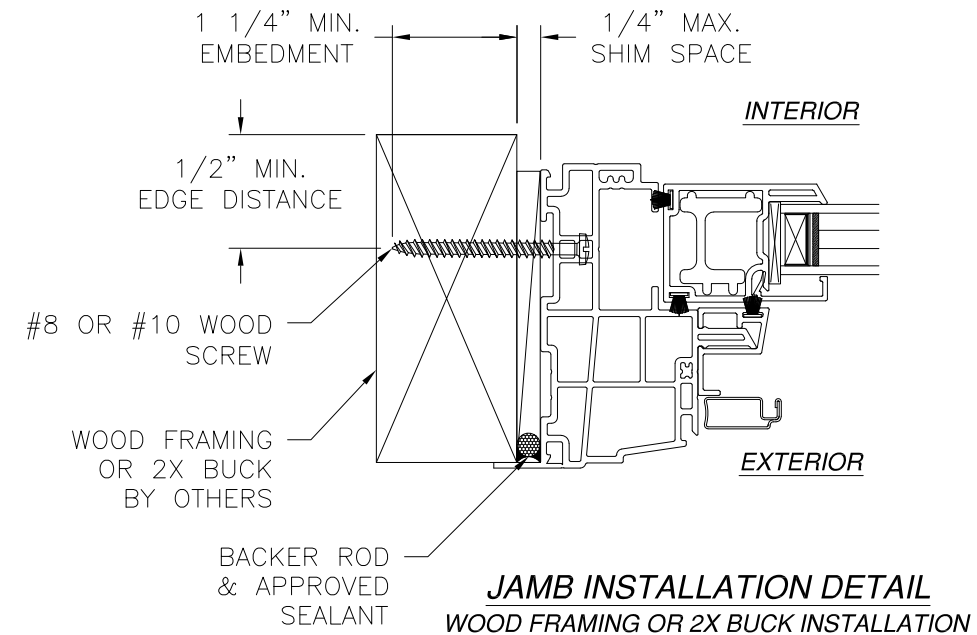
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

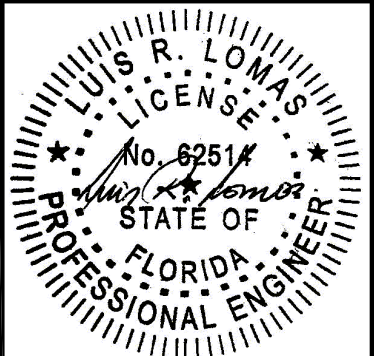
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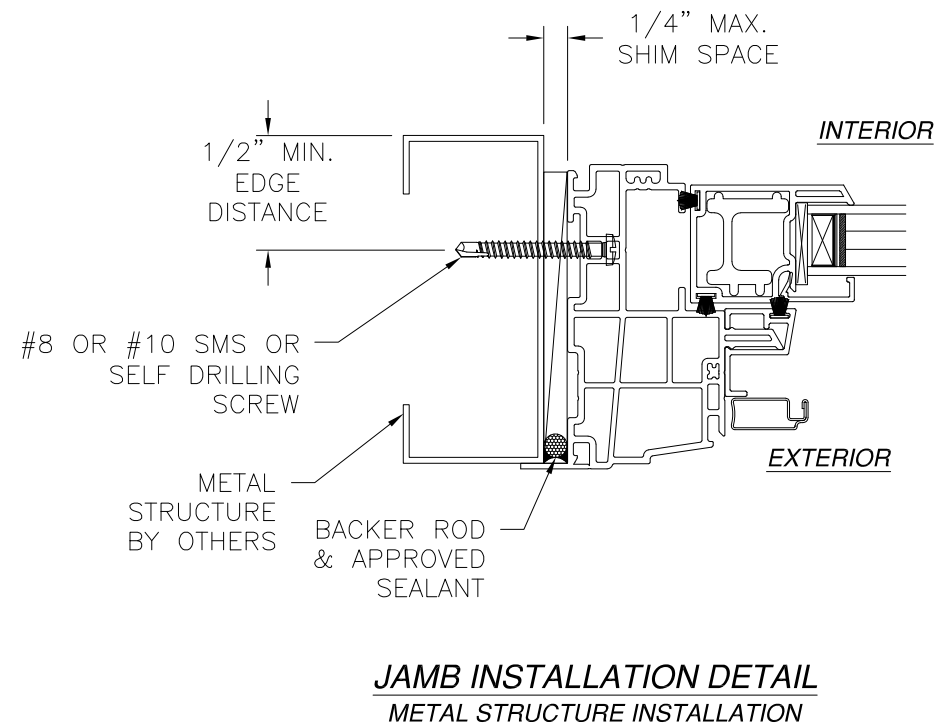
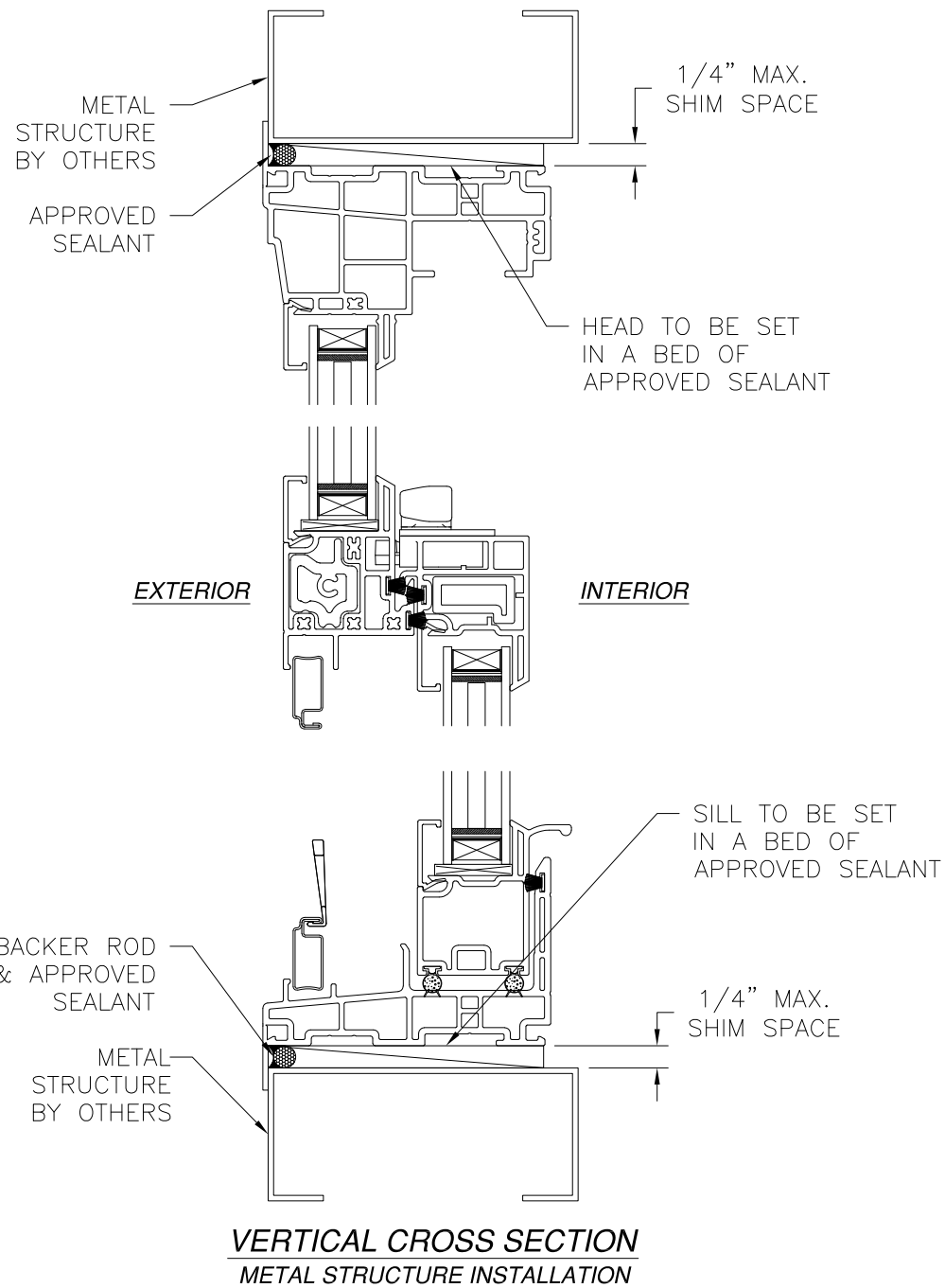
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
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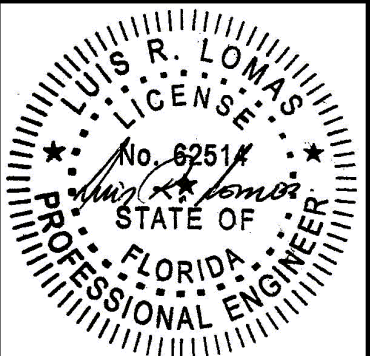
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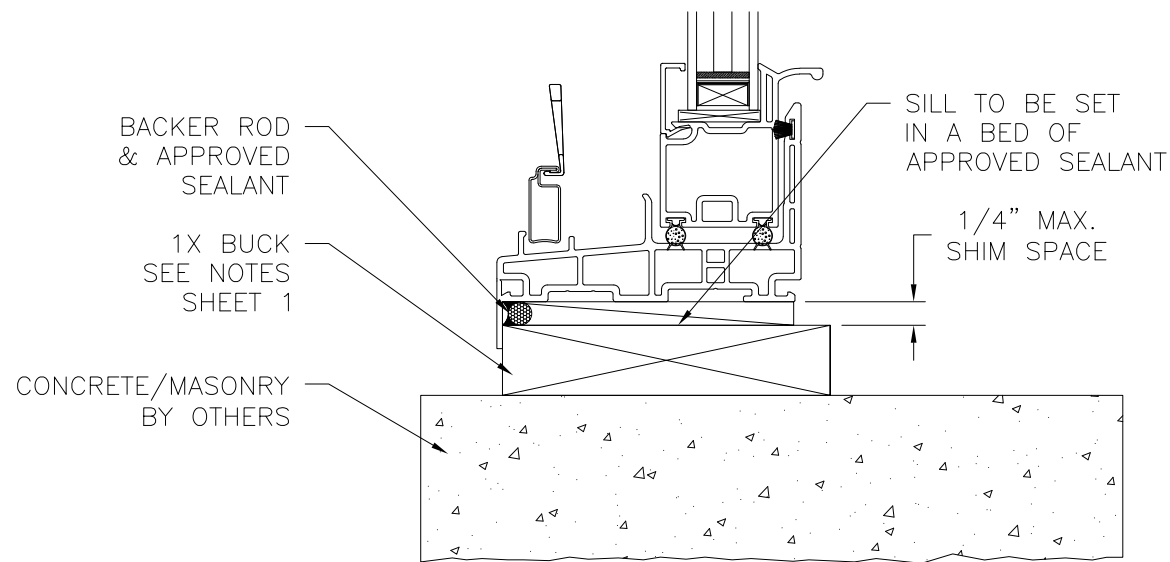
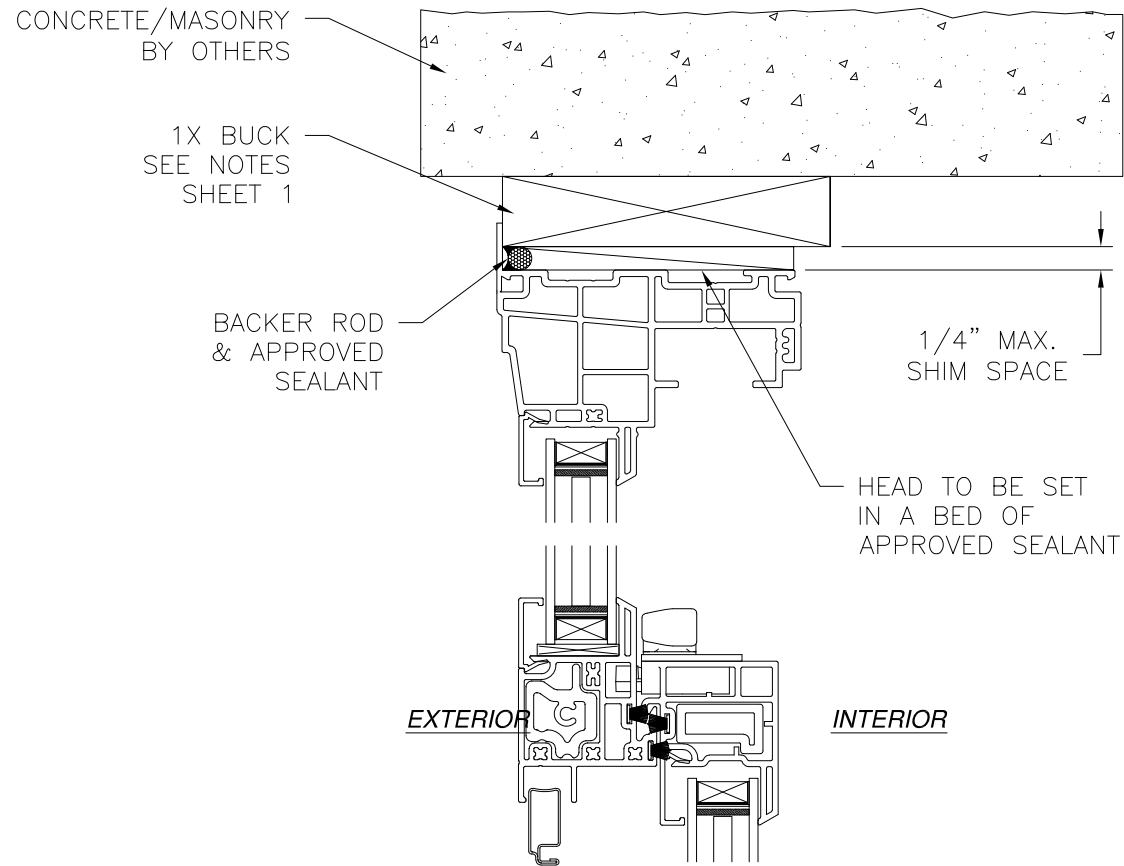
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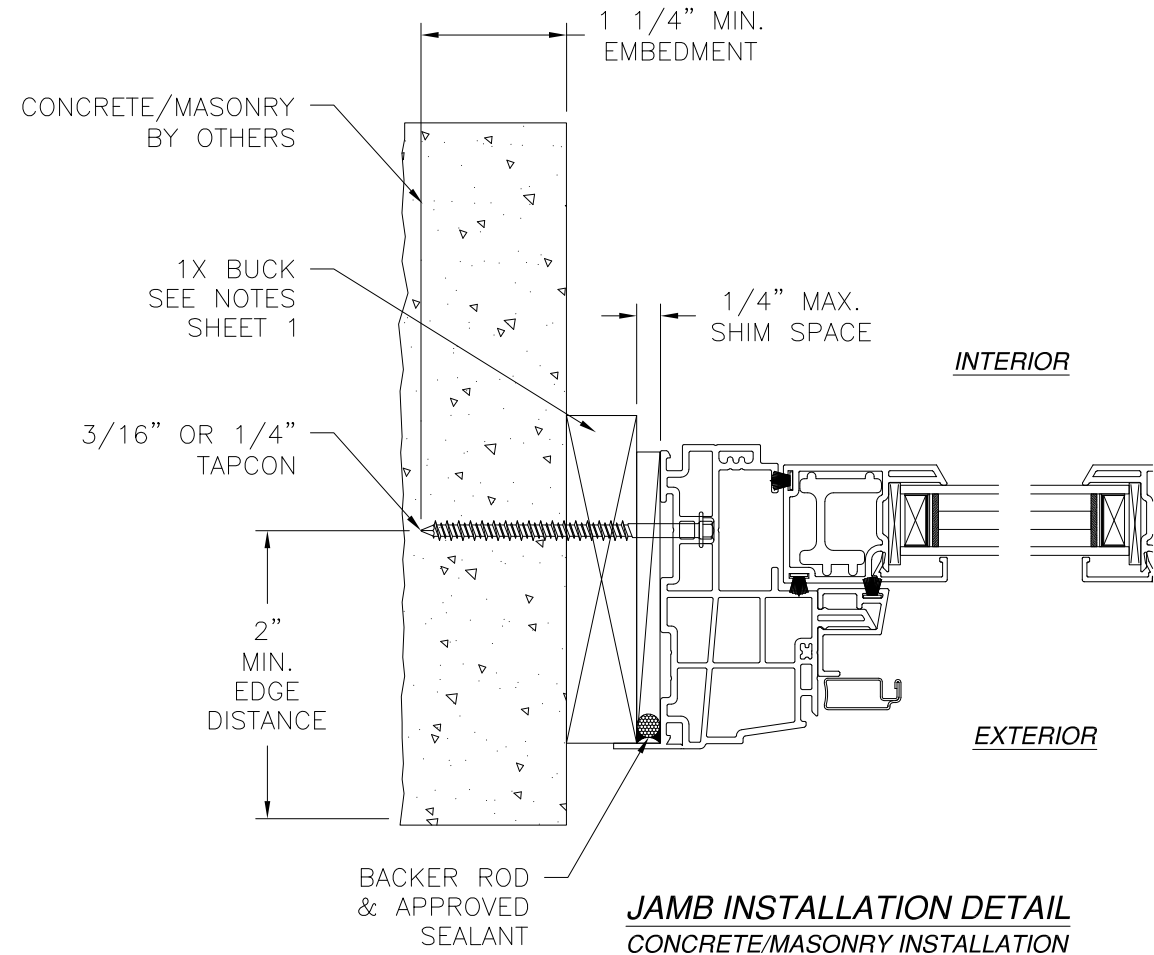
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

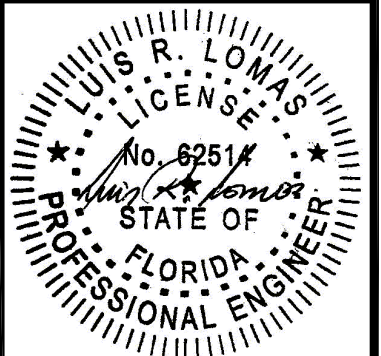
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.

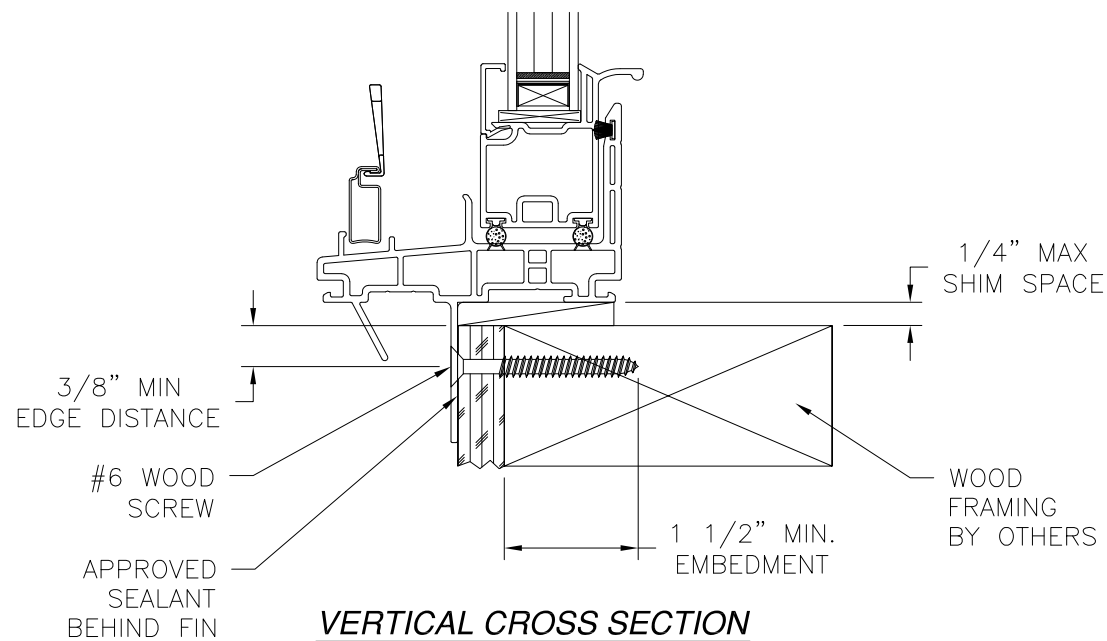
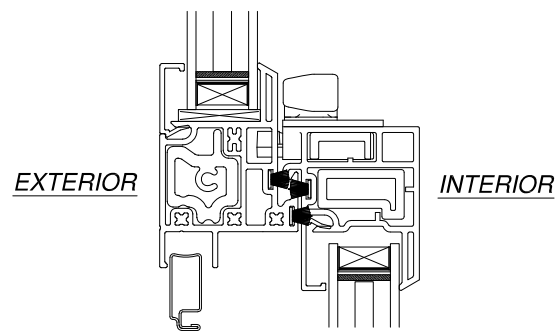
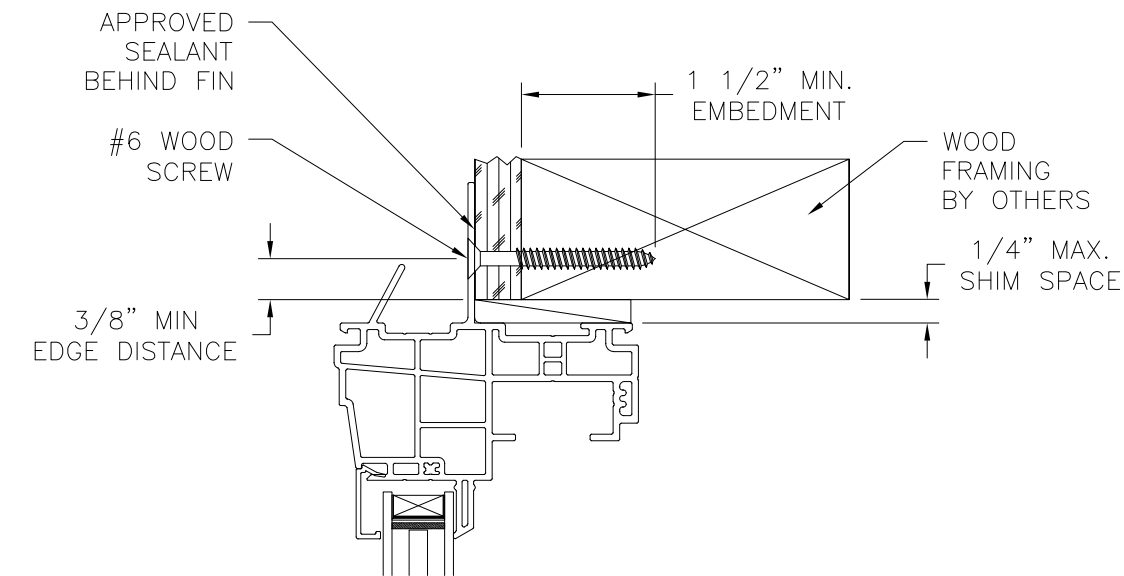


MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 37" x 72" FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03159	REV D
SCALE NTS	DATE 08/16/17	SHEET 10 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024



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

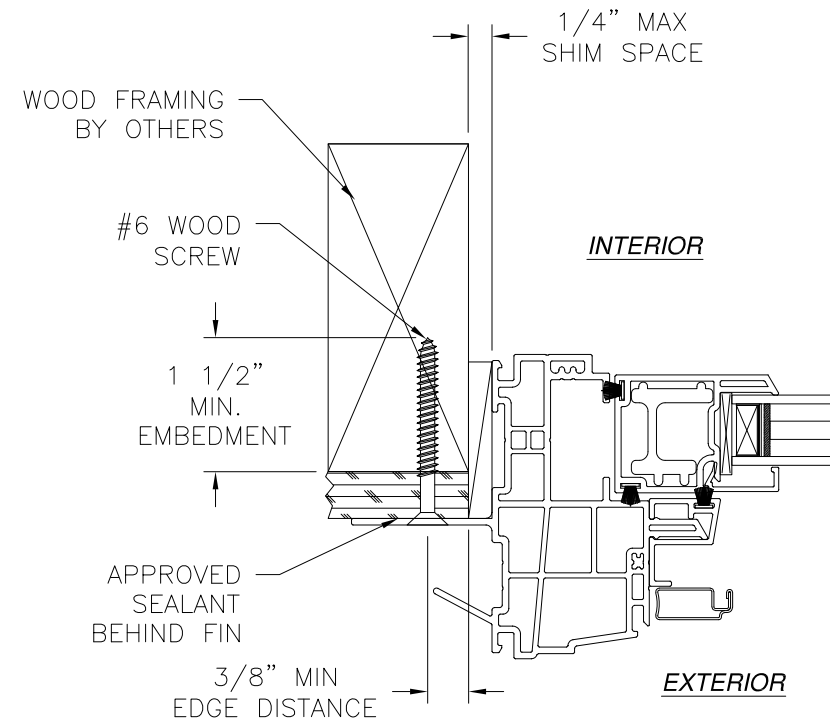


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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
D	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

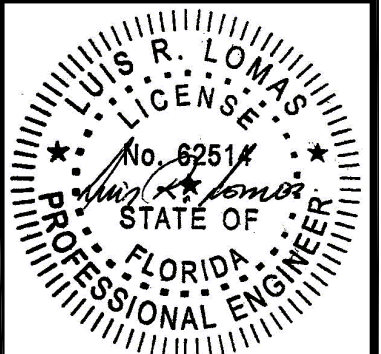
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 1620/1621 SH REINFORCED
NON-IMPACT 37" x 72"
FIN WITH J CHANNEL INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03159	REV D
SCALE NTS	DATE 08/16/17	SHEET 11 OF 16

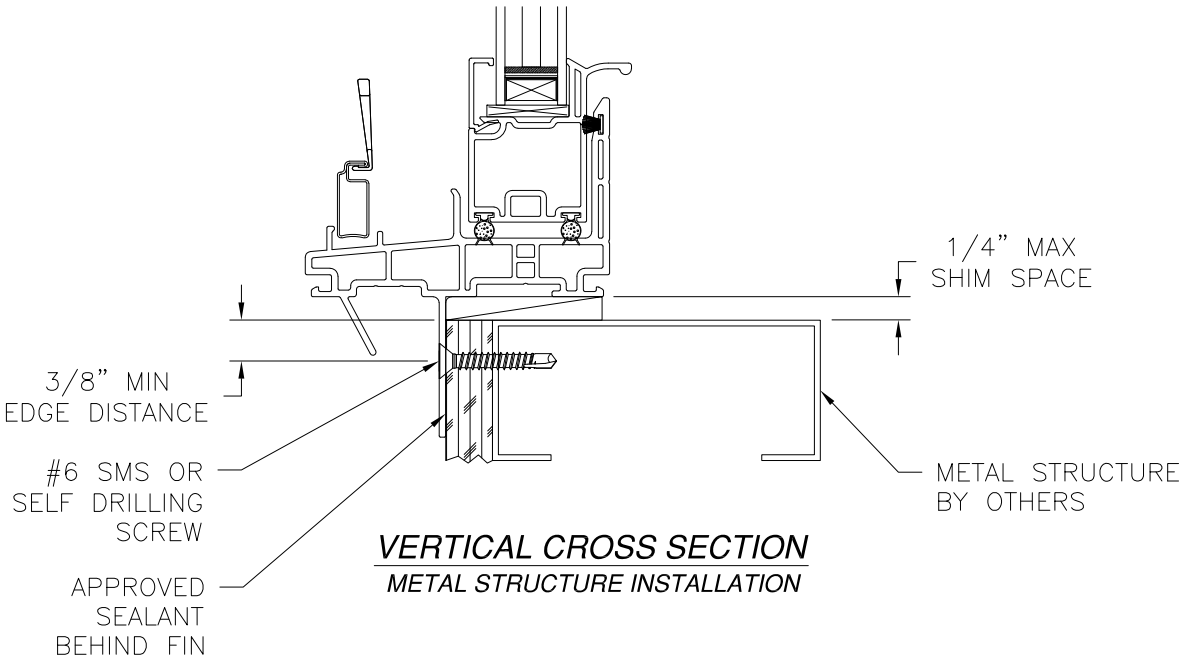
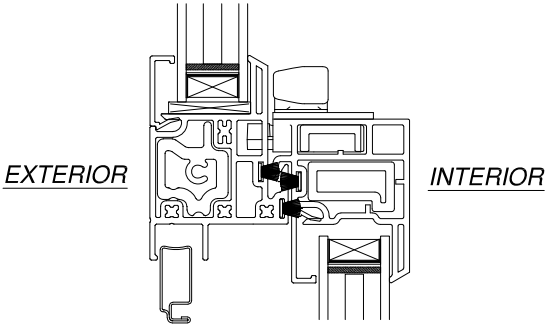
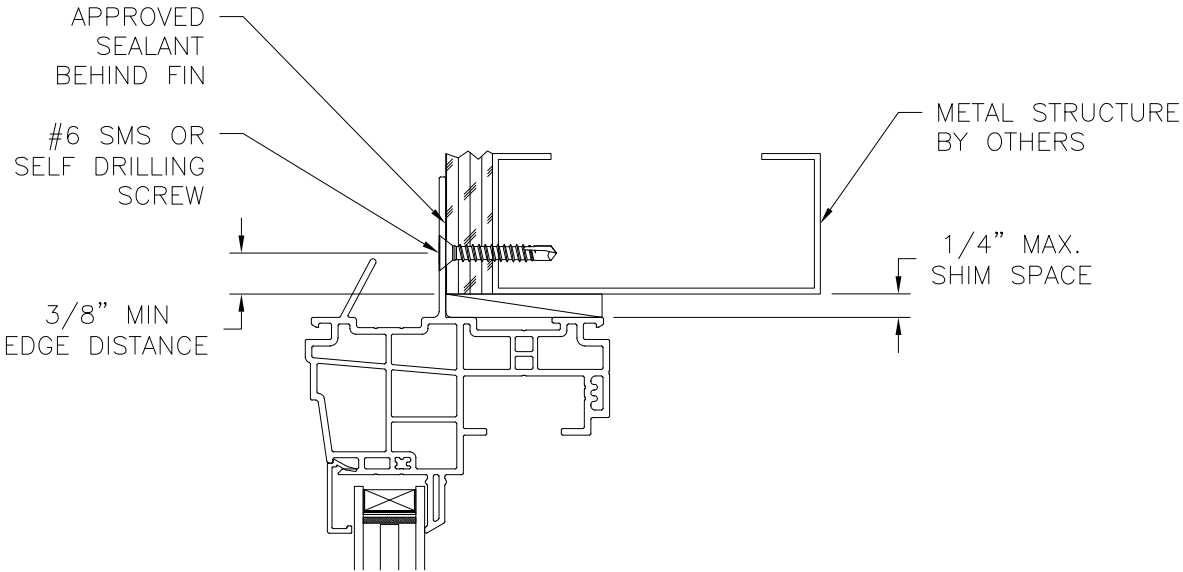
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/29/2024

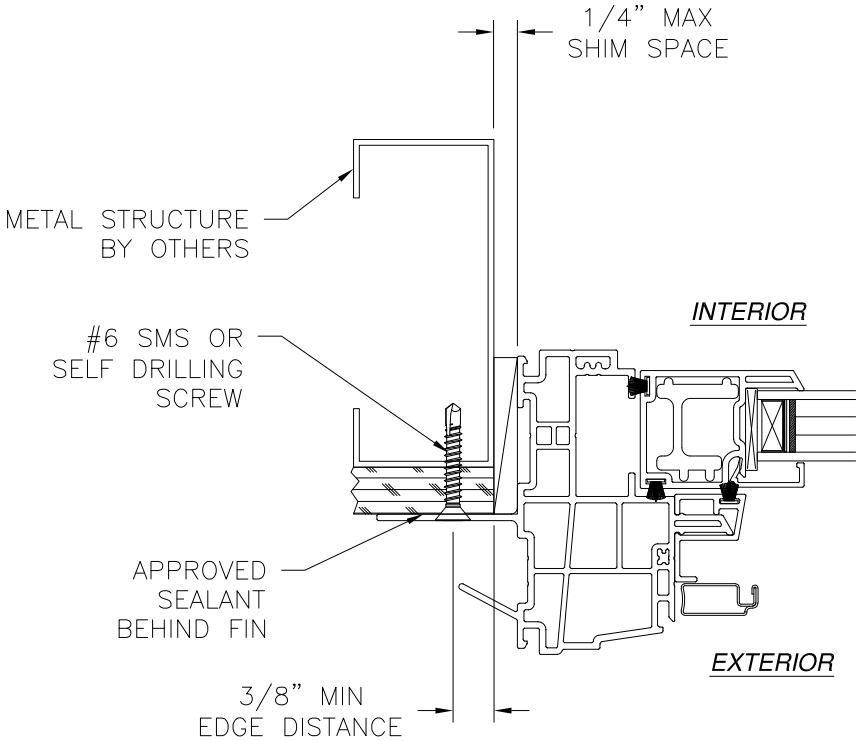


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

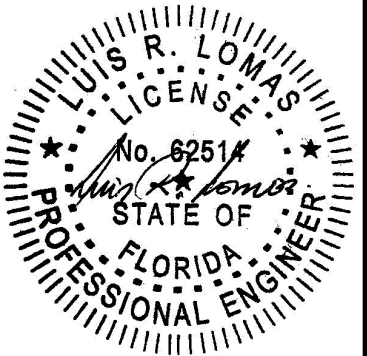


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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

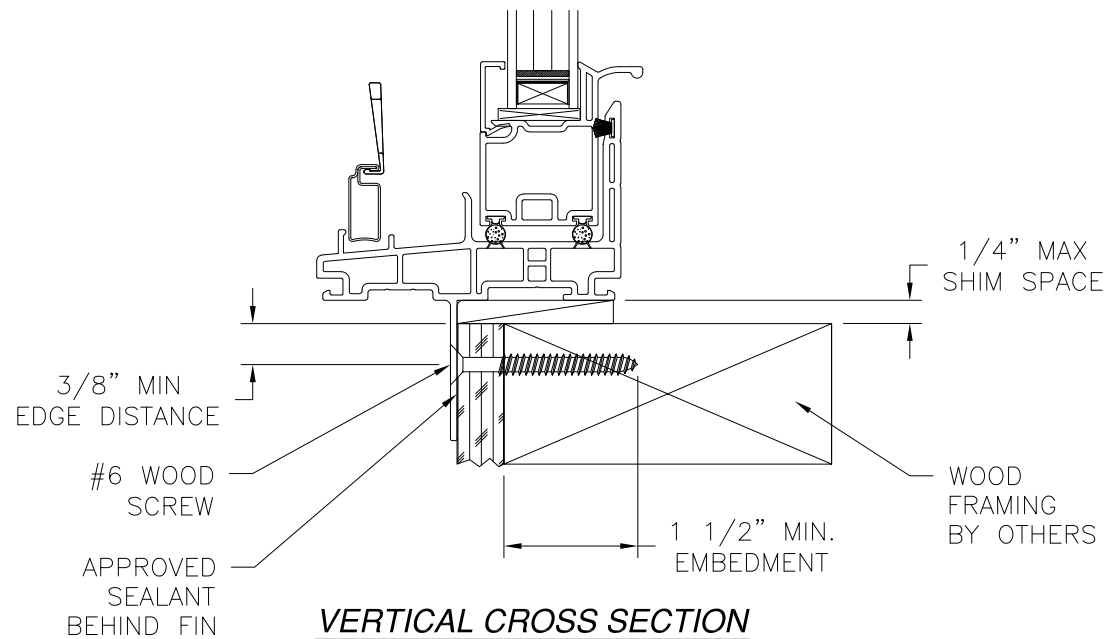
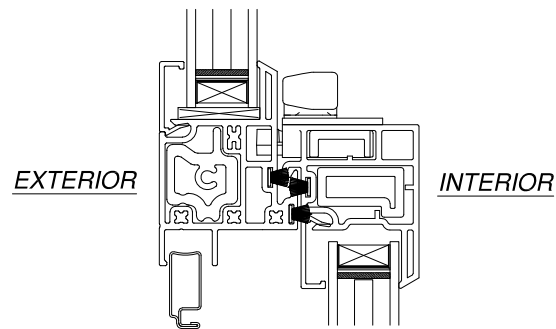
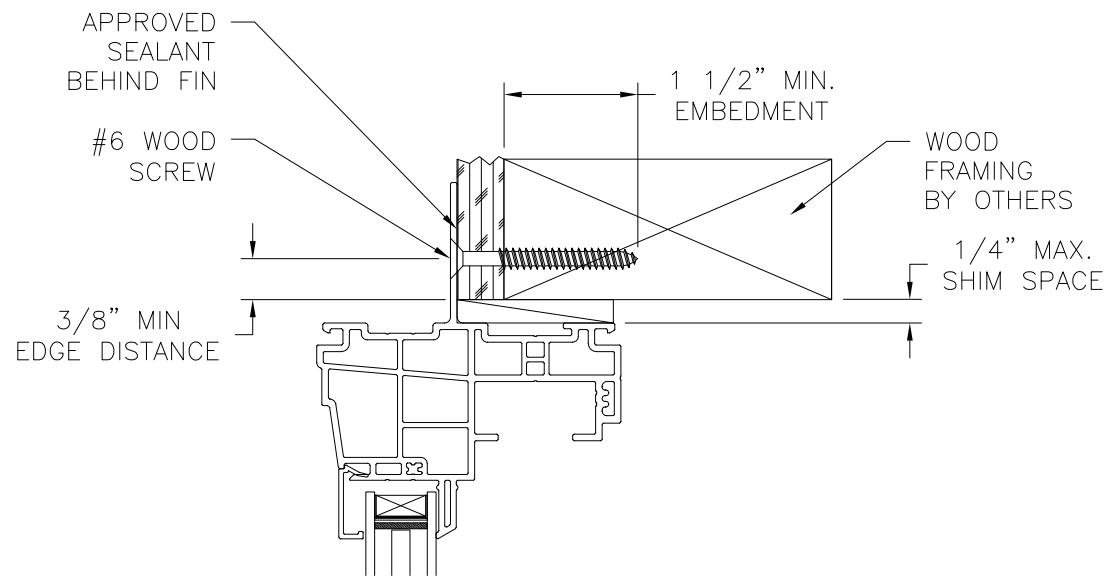
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 37" x 72" FIN WITH J CHANNEL INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03159	REV D
SCALE NTS	DATE 08/16/17	SHEET 12 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024

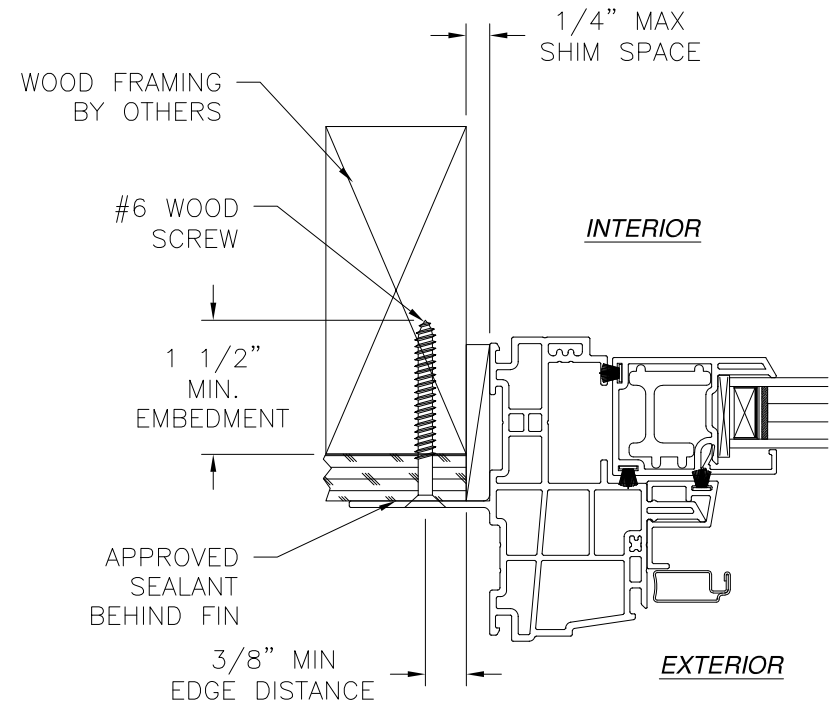


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



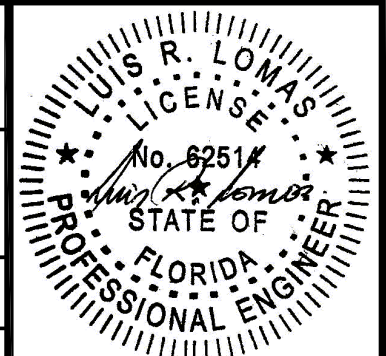
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



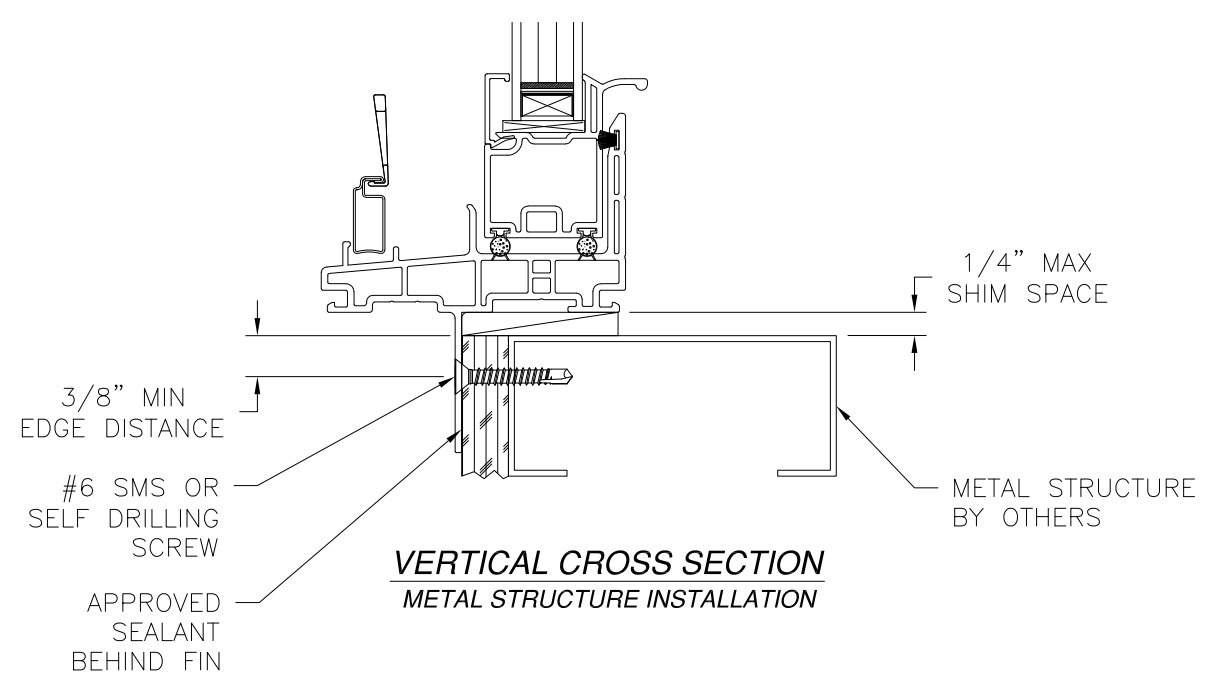
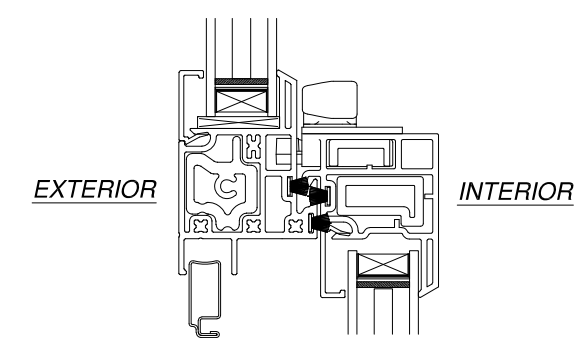
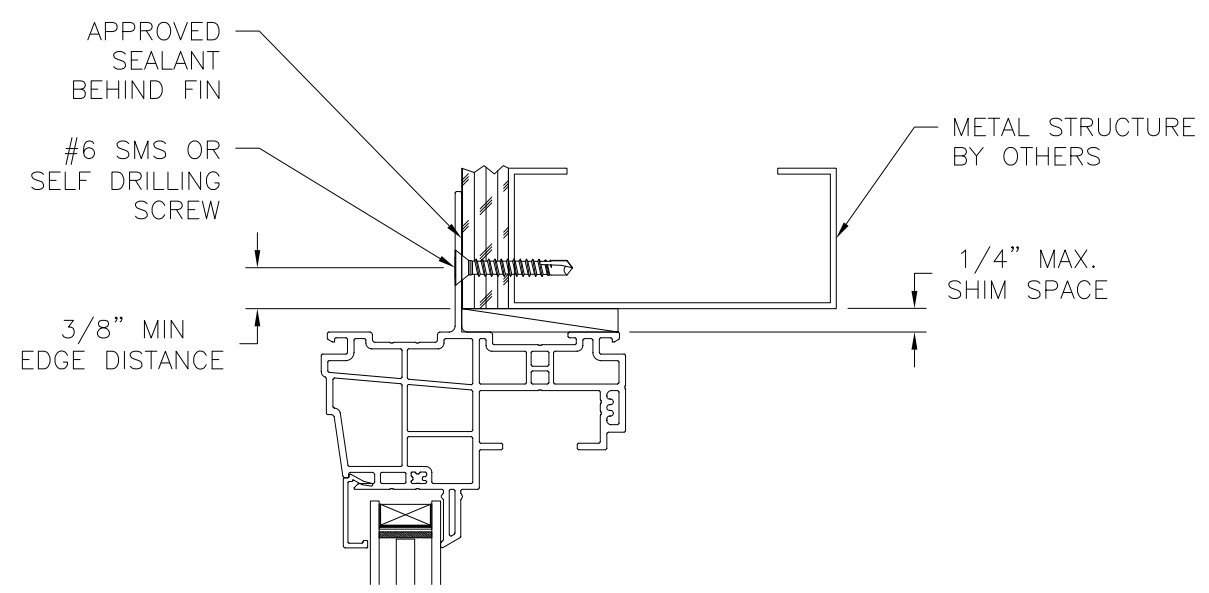
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 37" x 72" FIN INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03159	REV D
SCALE NTS	DATE 08/16/17	SHEET 13 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024



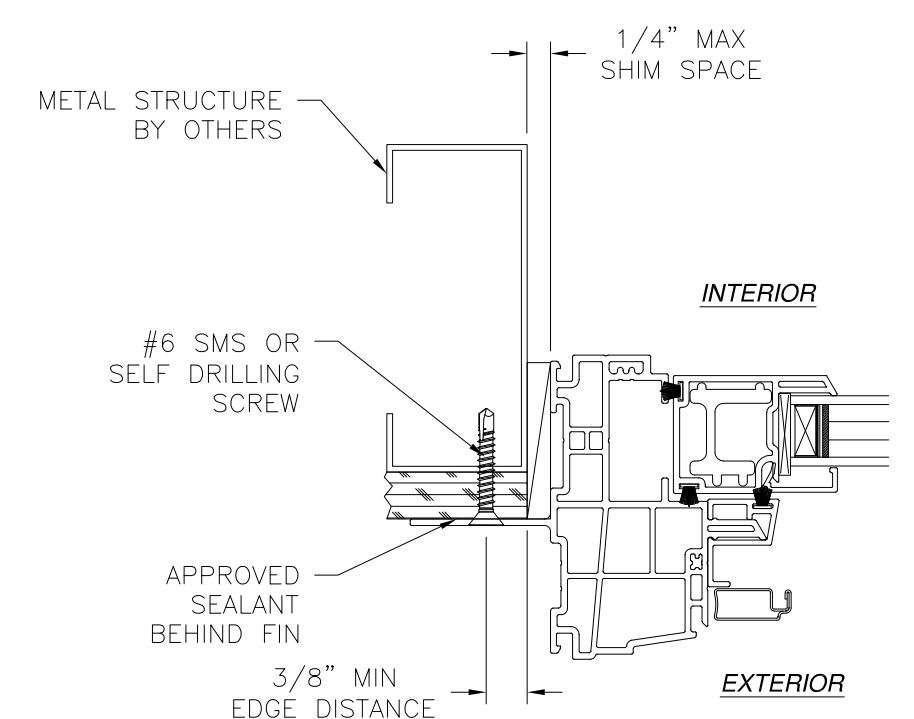
Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
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
D	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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

SERIES 1620/1621 SH REINFORCED
NON-IMPACT 37" x 72"
FIN INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03159	REV D
SCALE NTS	DATE 08/16/17	SHEET 14 OF 16

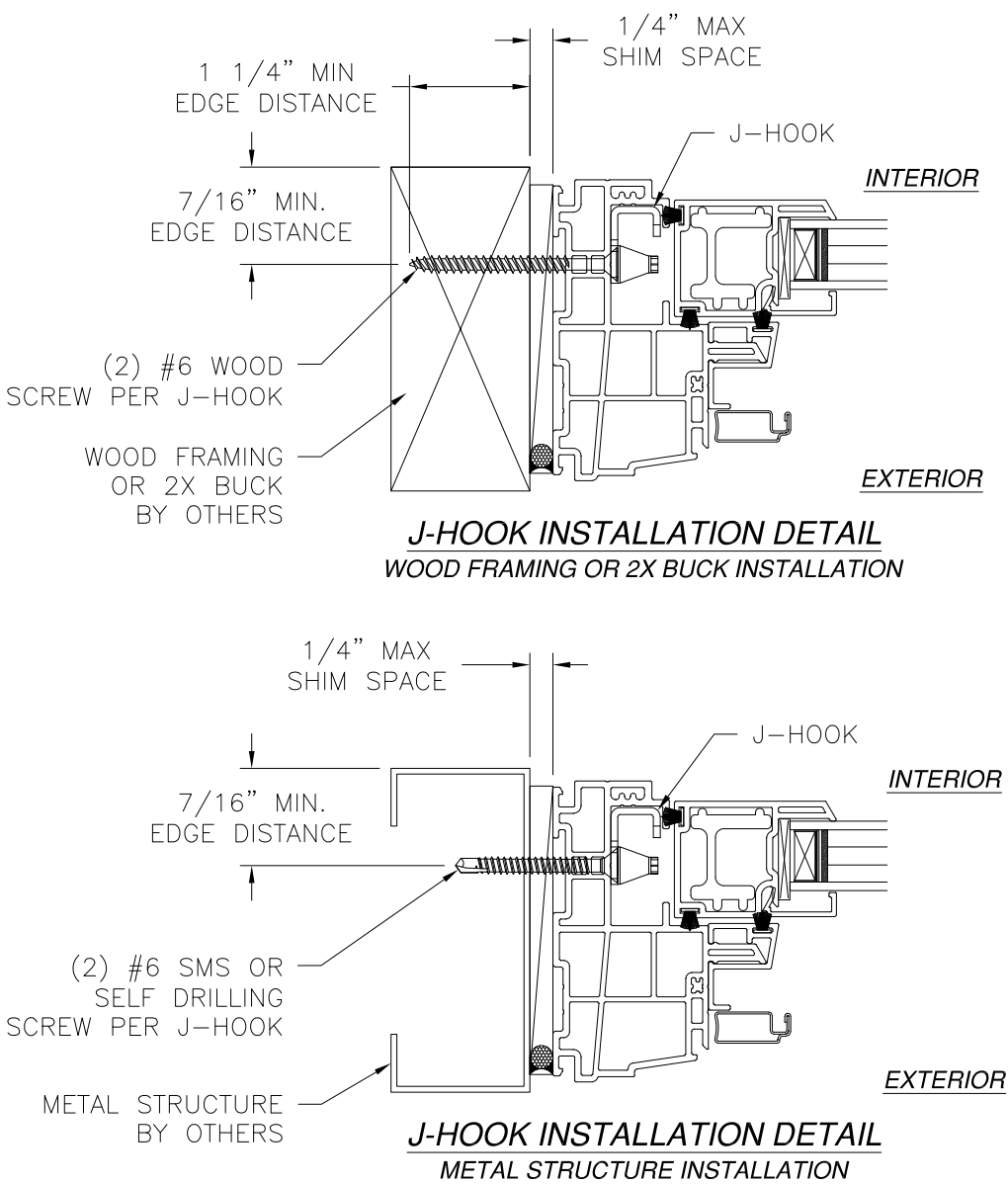
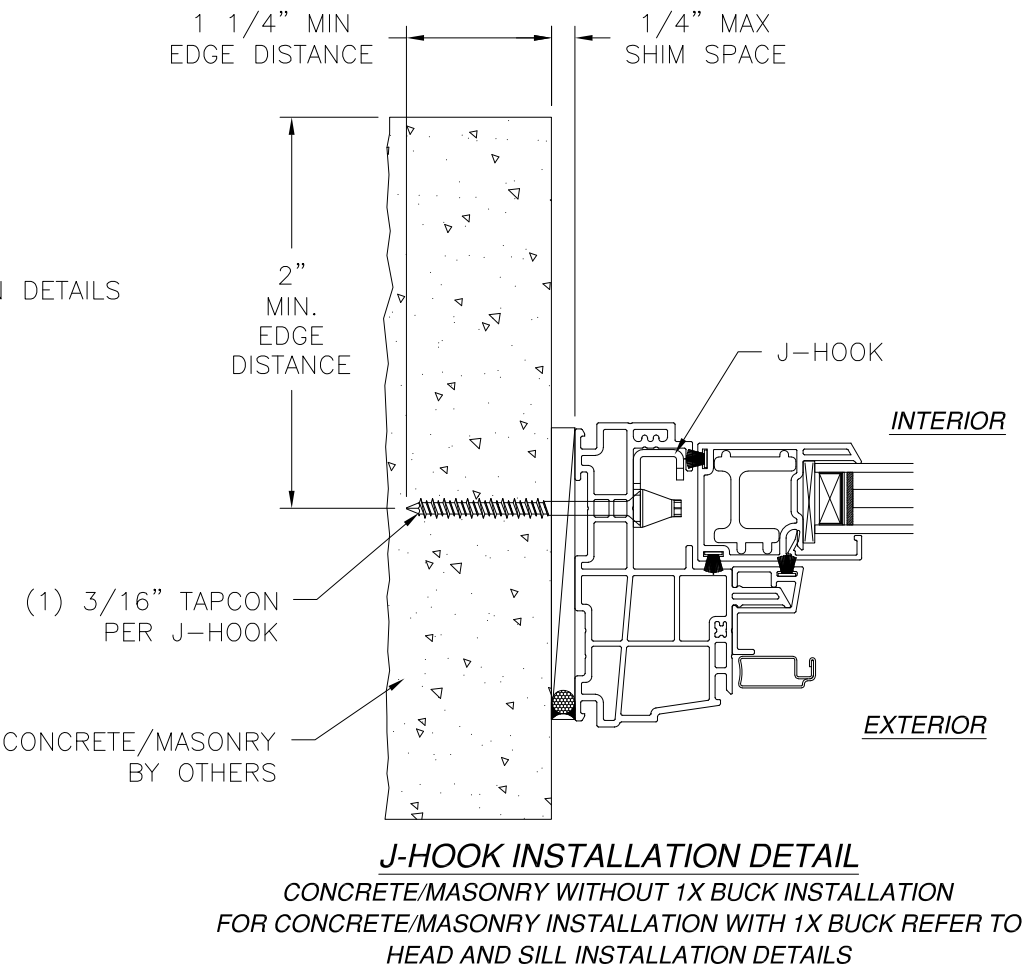
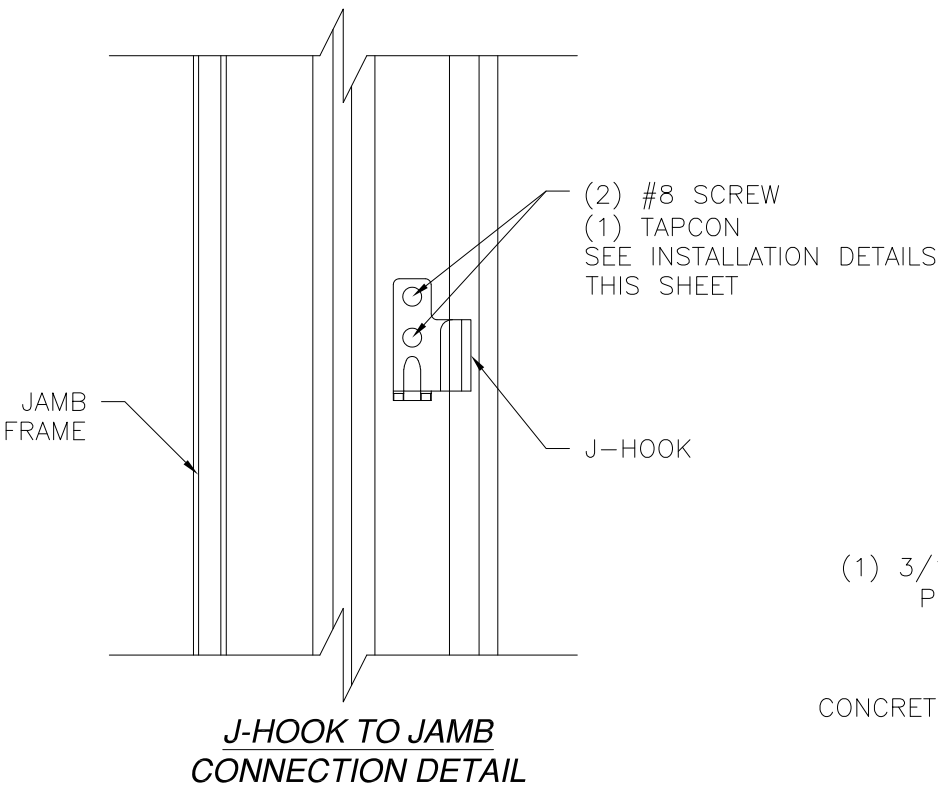
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/29/2024

LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

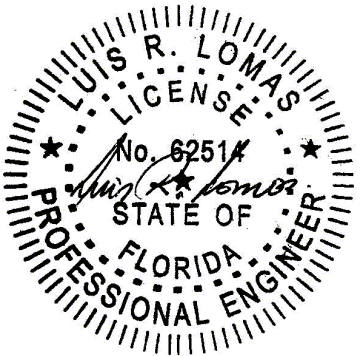
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.

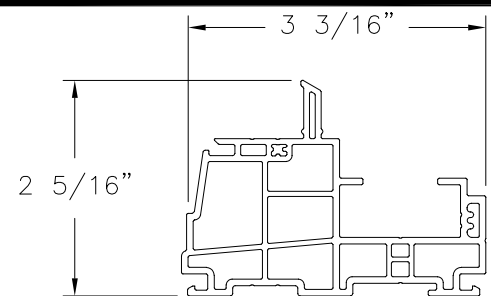


SIGNED: 08/29/2024

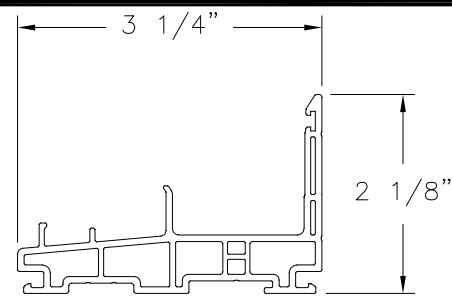
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 37" x 72" J-HOOK INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03159	REV D
SCALE NTS	DATE 08/16/17	SHEET 15 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



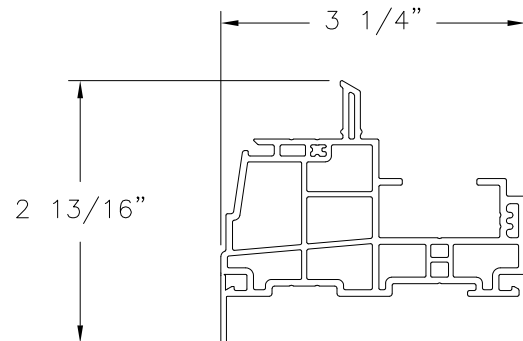
Luis R. Lomas P.E.
FL No.: 62514



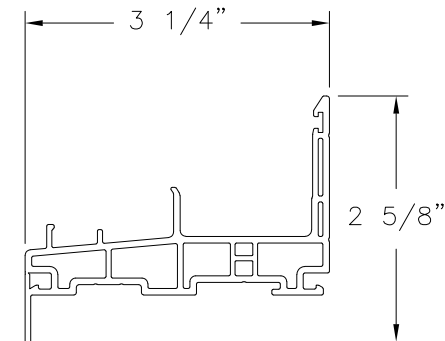
HEAD/JAMB FINLESS
EXTRUDED PVC (V-1008)



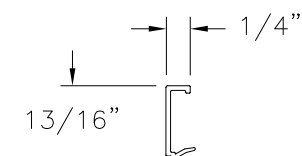
SILL FINLESS
EXTRUDED PVC (V-1013)



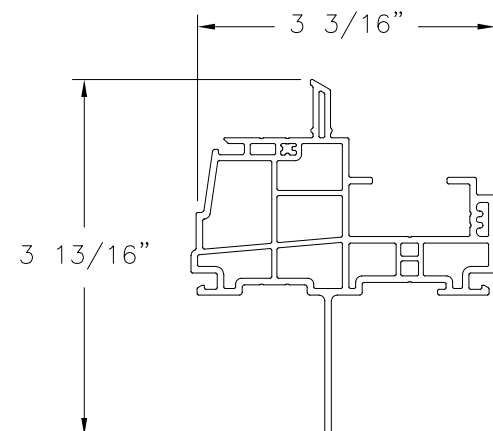
HEAD/JAMB WITH FLANGE
EXTRUDED PVC (VE-000025)



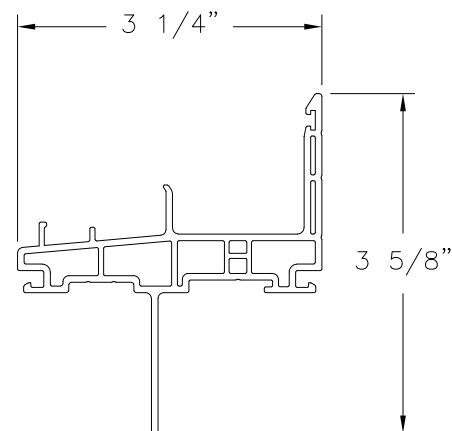
SILL WITH FLANGE
EXTRUDED PVC (VE-000021)



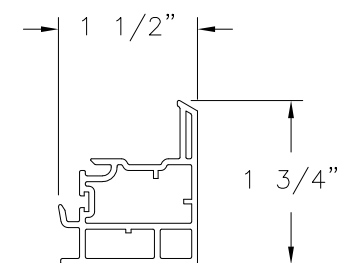
GLAZING BEAD
RIGID PVC (V-904)



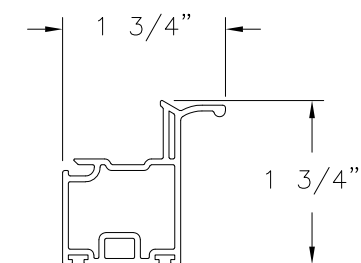
HEAD/JAMB FIN INSTALLATION
EXTRUDED PVC (V-1007)



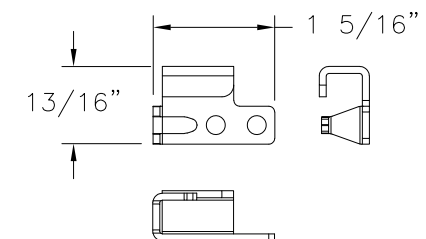
SILL FIN INSTALLATION
EXTRUDED PVC (V-1012)



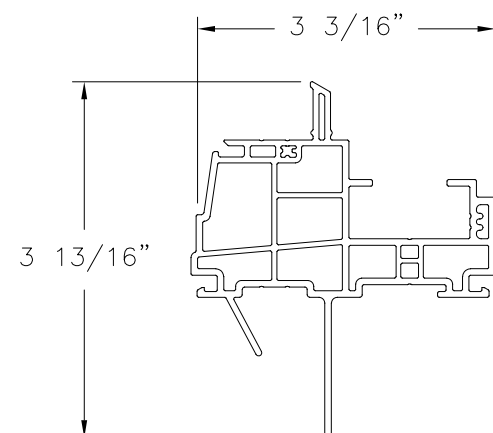
BOTTOM SASH/TOP RAIL
EXTRUDED PVC (V-675)



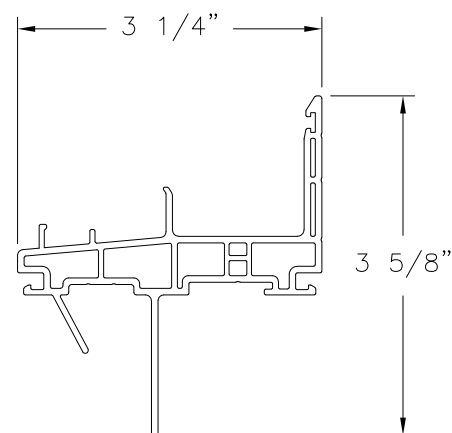
BOTTOM SASH/BOTTOM RAIL
EXTRUDED PVC (V-672)



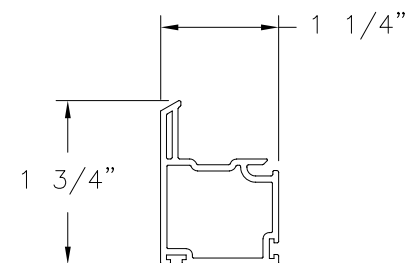
J-HOOK



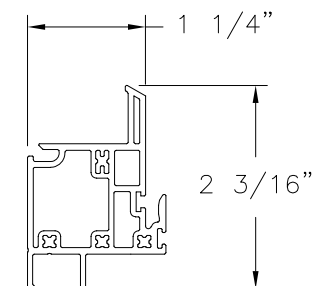
**HEAD/JAMB FIN INSTALLATION
WITH J-CHANNEL**
EXTRUDED PVC (V-1006)



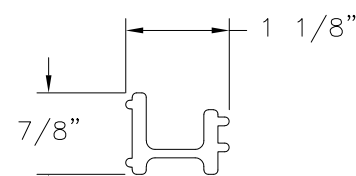
**SILL FIN INSTALLATION
WITH J-CHANNEL**
EXTRUDED PVC (V-1011)



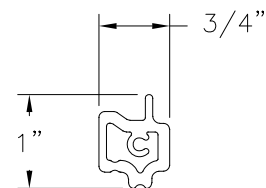
BOTTOM SASH/STILE
EXTRUDED PVC (V-670)



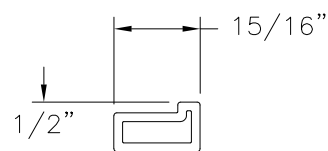
MEETING RAIL
EXTRUDED PVC (V-1016)



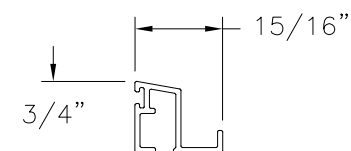
**STILES
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2266)



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



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



**OPERABLE SCREEN
TRACK W/O LEG**
ALUMINUM 6063-T5 (M-2341)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.

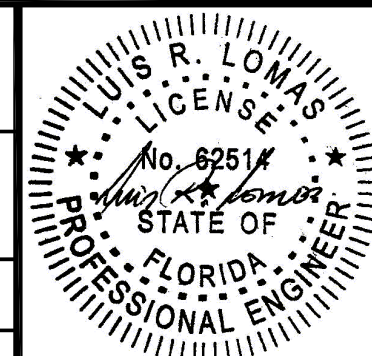
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 1620/1621 SH REINFORCED
NON-IMPACT 37" x 72"
COMPONENTS

DRAWN: A.R.	DWG NO. 08-03159	REV D
SCALE NTS	DATE 08/16/17	SHEET 16 OF 16

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

SIGNED: 08/29/2024



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