

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	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” 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. 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 UNIT FRAME 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 UP TO WIND ZONE 3.

13. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1” 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 SCREW 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 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” 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 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 .125” THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3 – 11	INSTALLATION DETAILS
12	COMPONENTS

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

SERIES 1620/1621 PVC SINGLE HUNG WINDOW
48” X 84” NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03734

REV
B

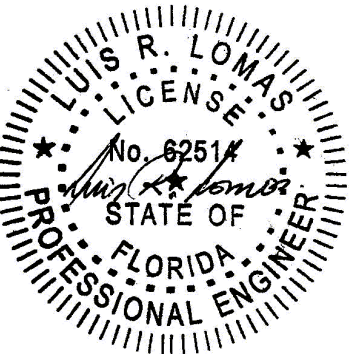
SCALE NTS

DATE 05/18/2021

SHEET 1 OF 12

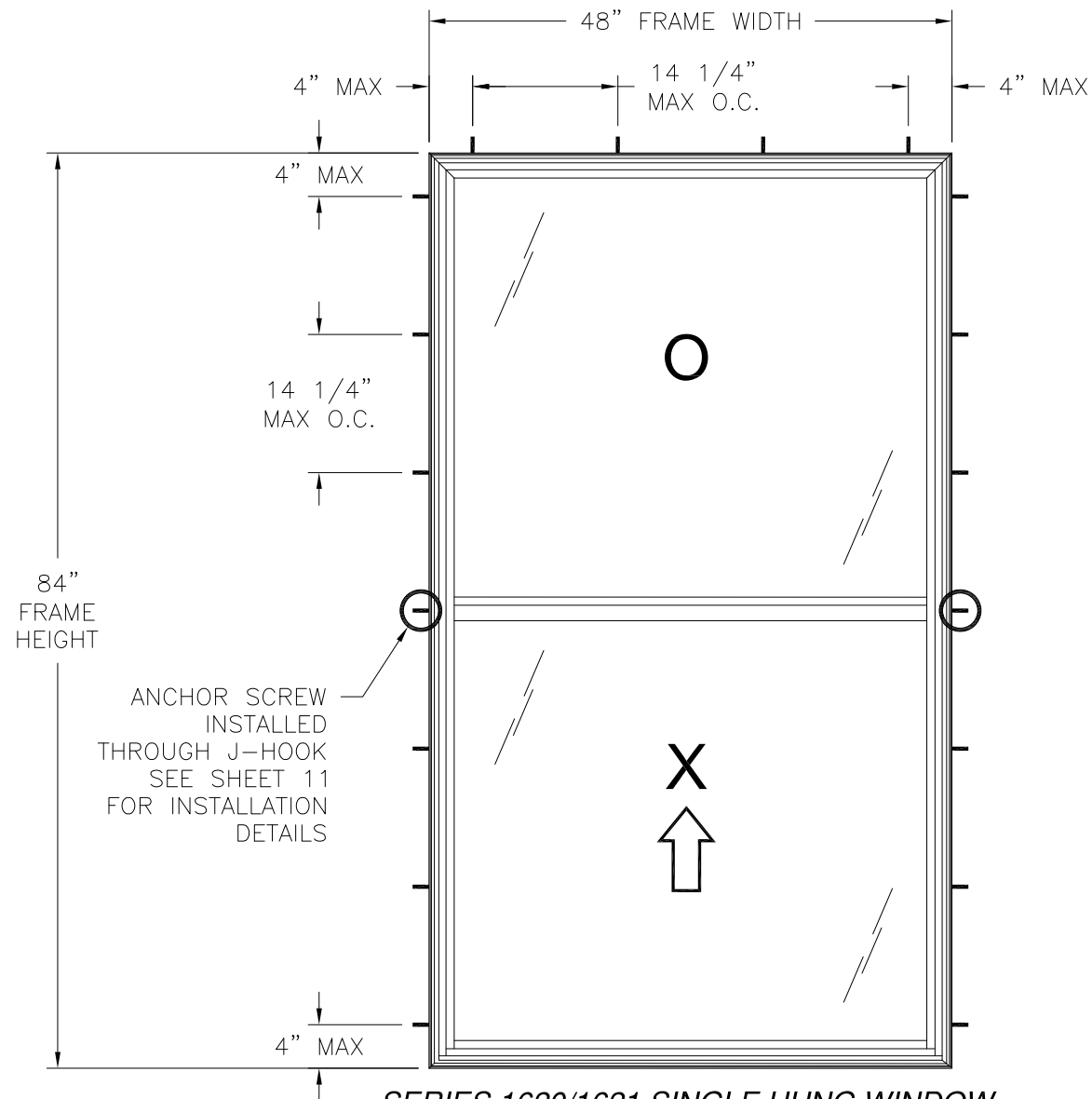
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/29/2024

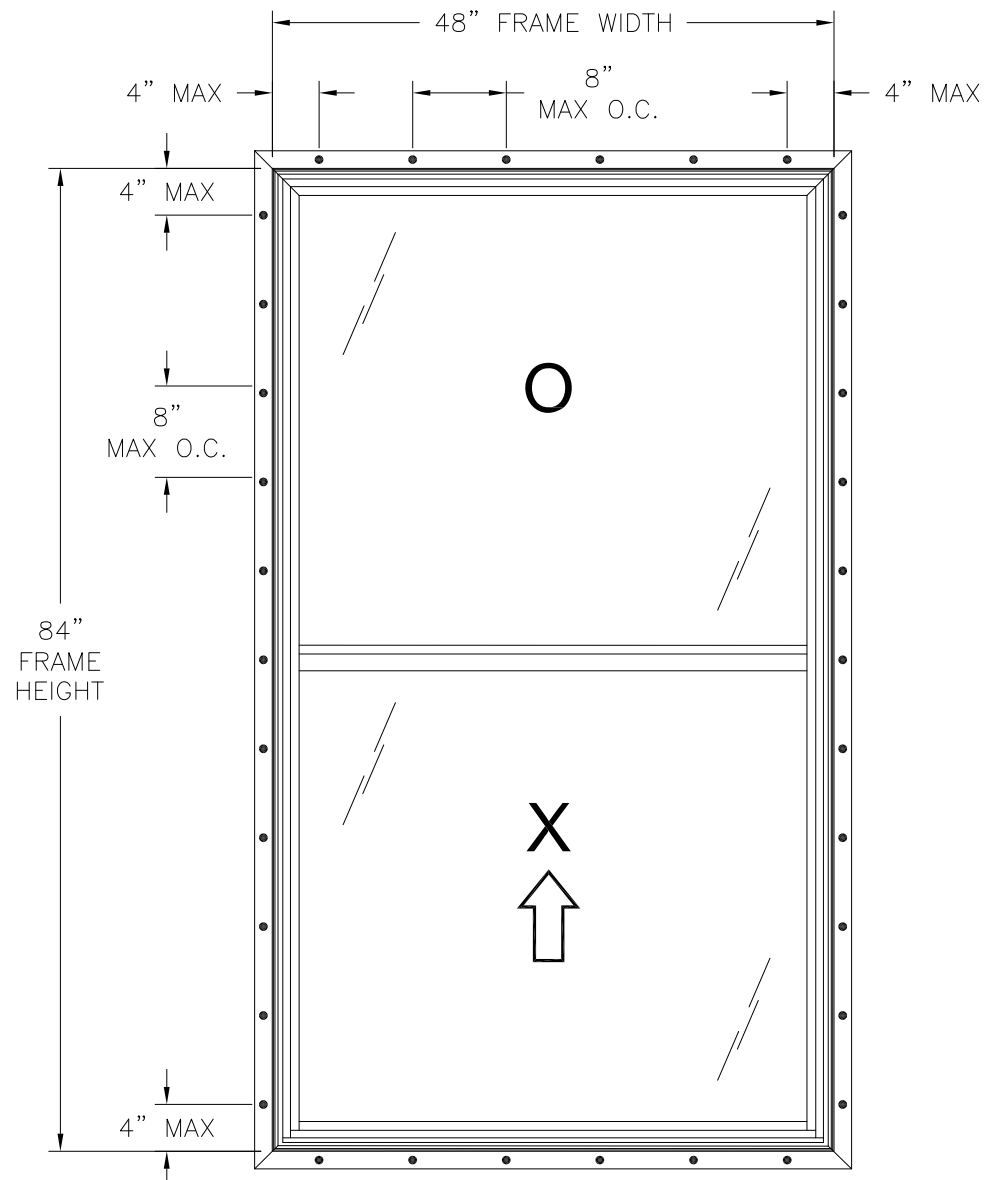


Luis R. Lomas P.E.
FL No.: 62514

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



SERIES 1620/1621 SINGLE HUNG WINDOW
EXTERIOR VIEW
FRAME AND FLANGE INSTALLATION



SERIES 1620/1621 SINGLE HUNG WINDOW
EXTERIOR VIEW
FIN INSTALLATION

- NOTES:**
- SASH: 45 3/8" X 41 3/4"
 - SASH D.L.O.: 41 3/4" X 38 3/8"
 - FIXED D.L.O.: 43 7/16" X 38 5/16"

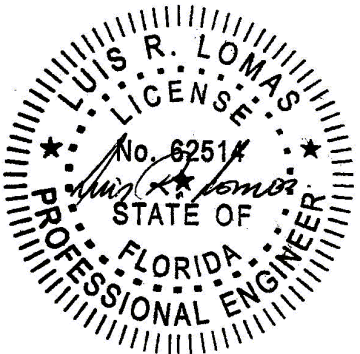
DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

48" X 84" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 28.0 FT²

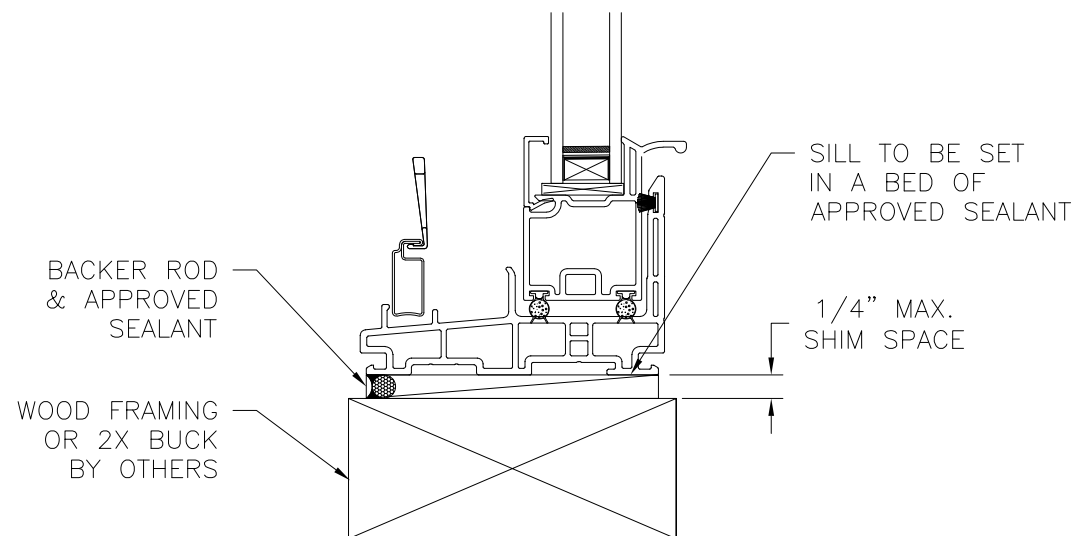
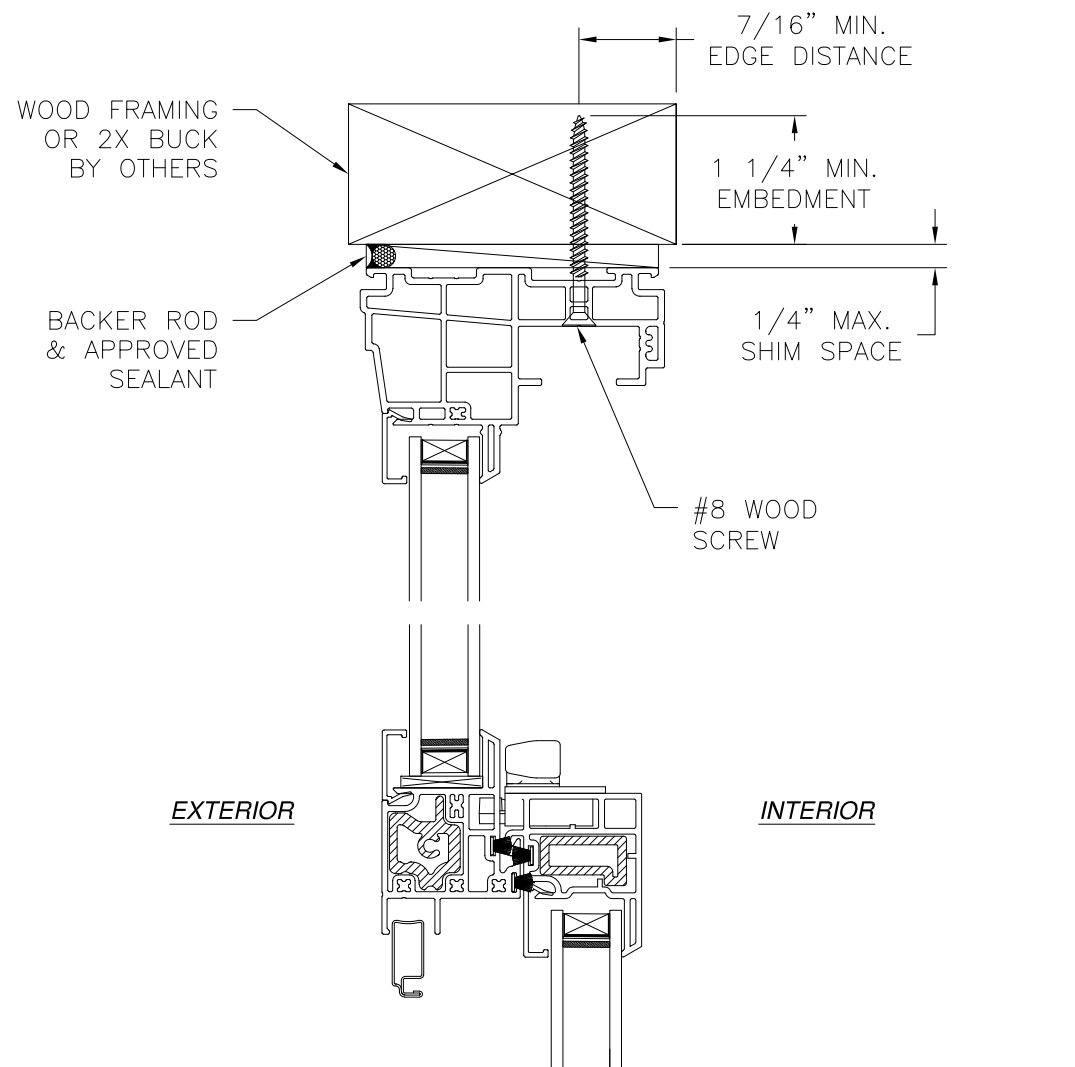
HARDWARE SCHEDULE	
A.	(2) TILT LATCHES AT SASH, MEETING RAIL, TOP OF MEETING RAIL CORNERS
B.	(2) PIVOT POINTS AT SASH, BOTTOM RAIL CORNERS
C.	(2) CONSTANT FORCE BALANCES AT JAMBS
D.	(2) LOCKS WITH KEEPERS AT MEETING RAIL, 7" FROM EACH CORNER
E.	ALUMINUM REINFORCEMENT (AE-00162) AT FIXED MEETING RAIL
F.	ALUMINUM REINFORCEMENT (AE-000299) AT STILES
G.	ALUMINUM REINFORCEMENT (AE-000298) AT MEETING RAIL

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT ELEVATIONS		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 2 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

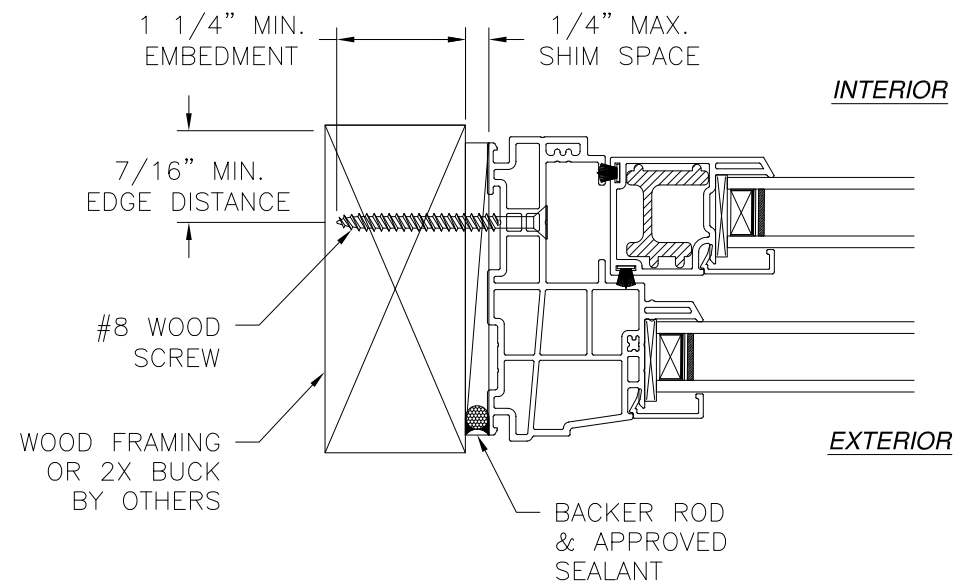
SIGNED: 08/29/2024



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



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

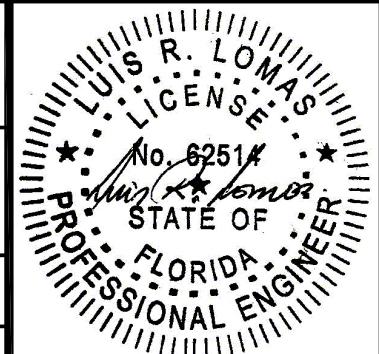
NOTES:

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

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

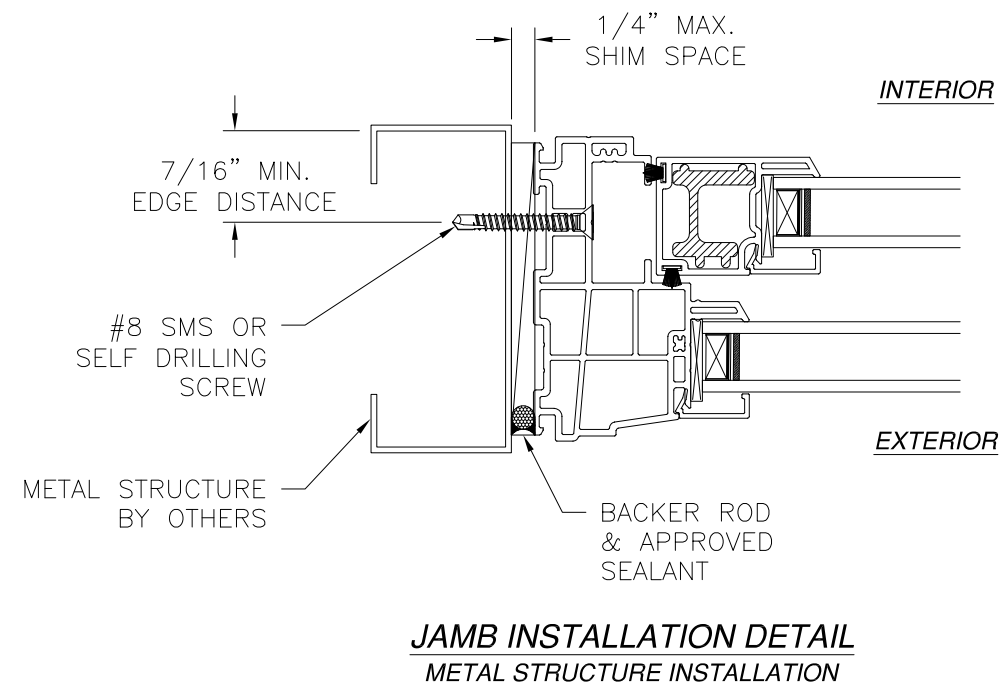
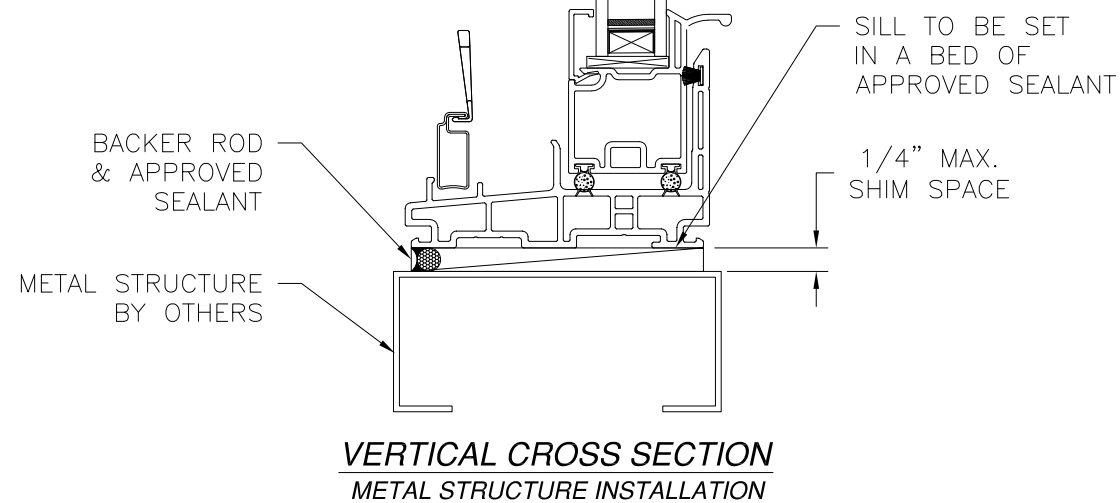
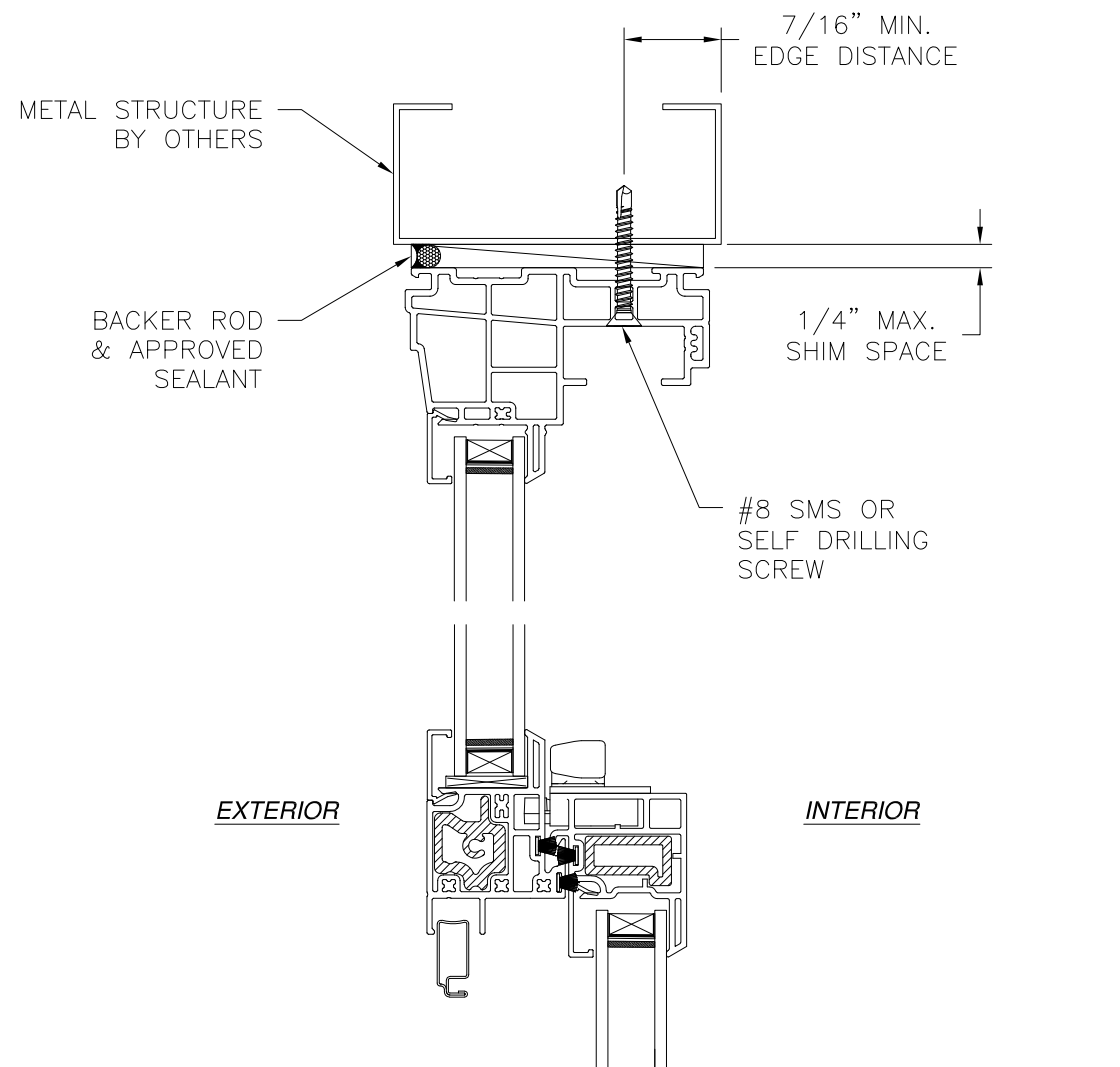
MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 3 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024



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

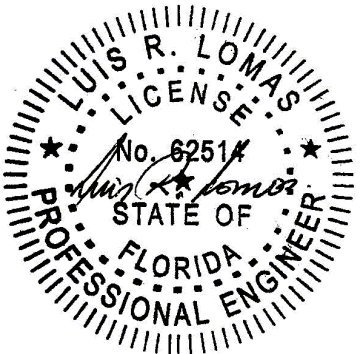
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



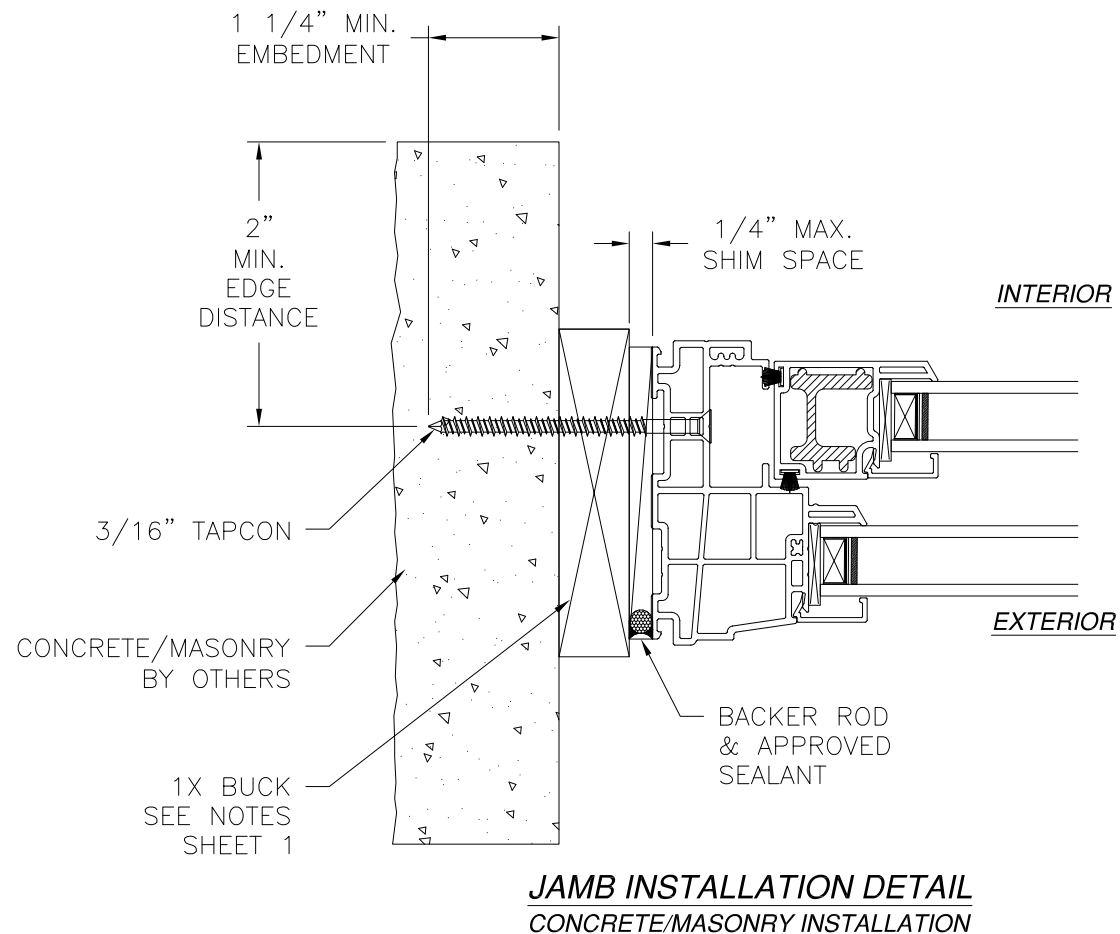
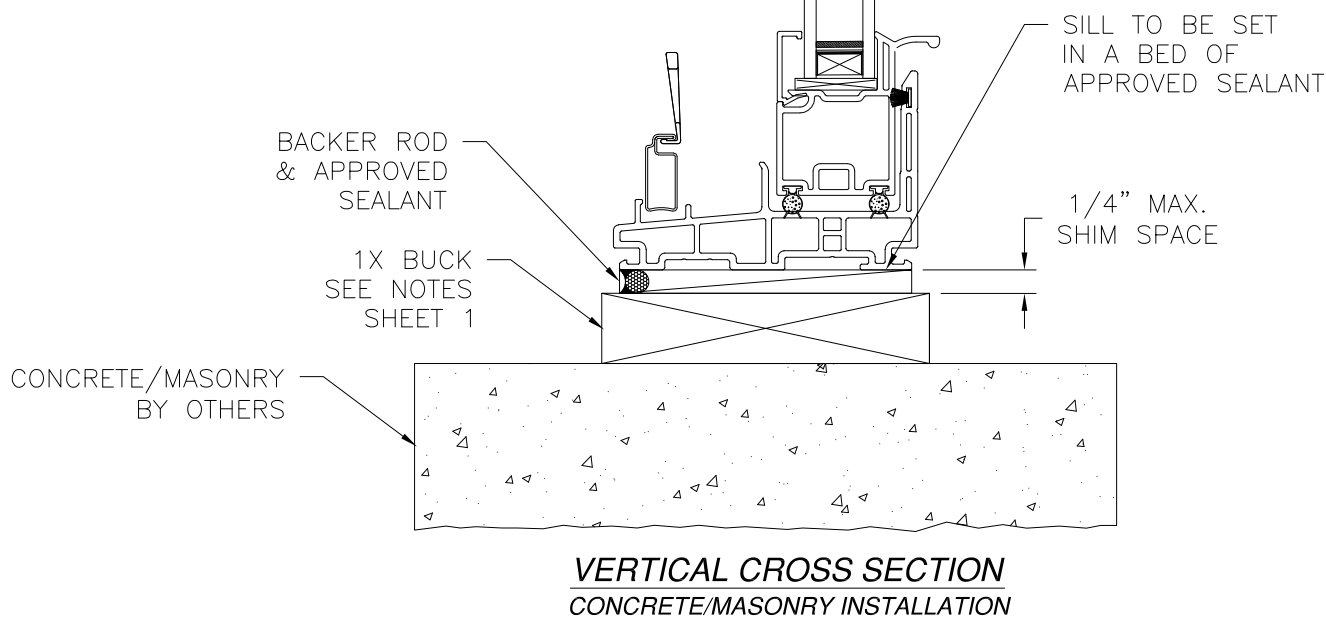
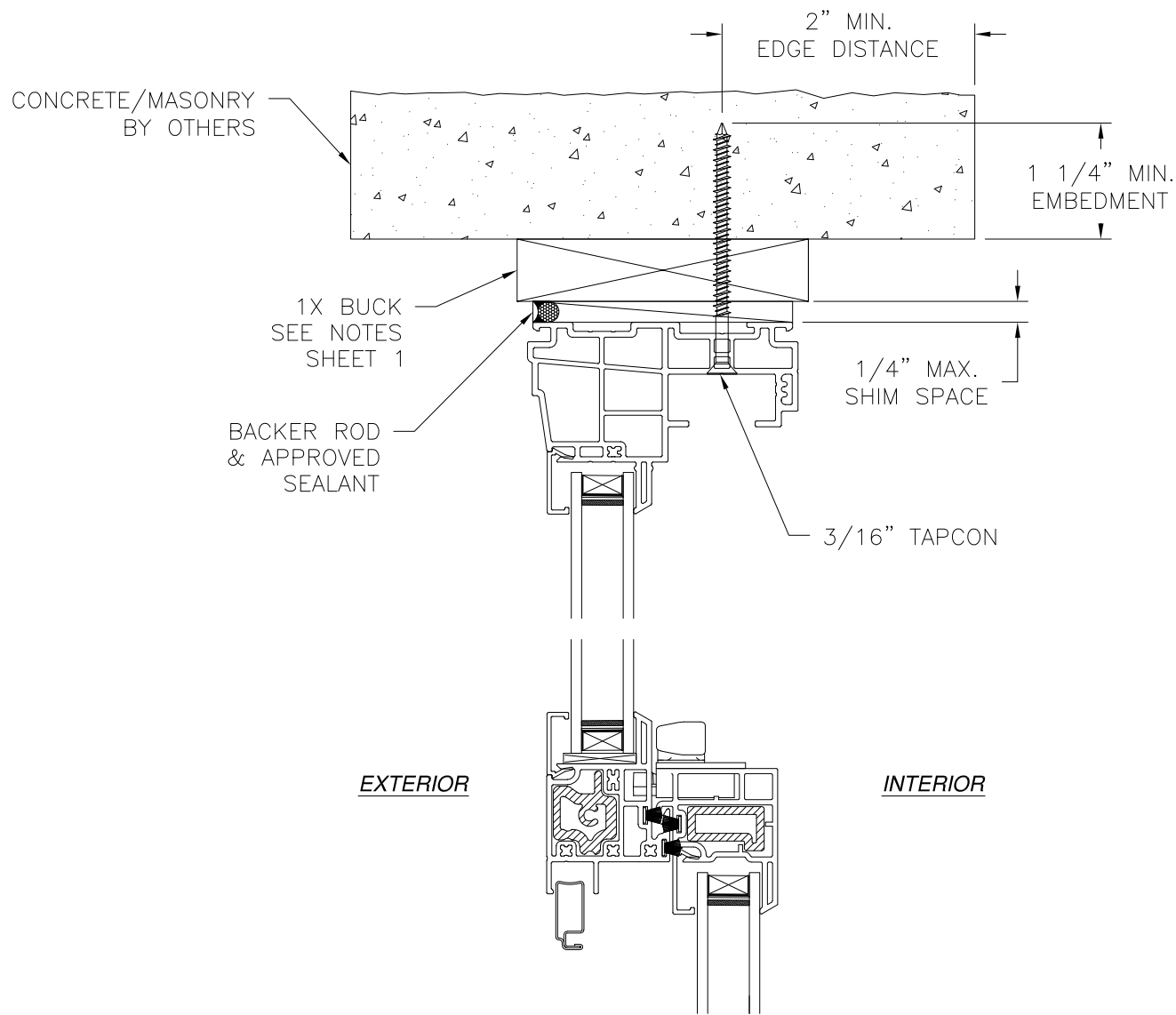
- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 08/29/2024

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 4 OF 12
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



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

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

SERIES 1620/1621 PVC SINGLE HUNG WINDOW
48" X 84" NON-IMPACT
INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03734

REV
B

SCALE
NTS

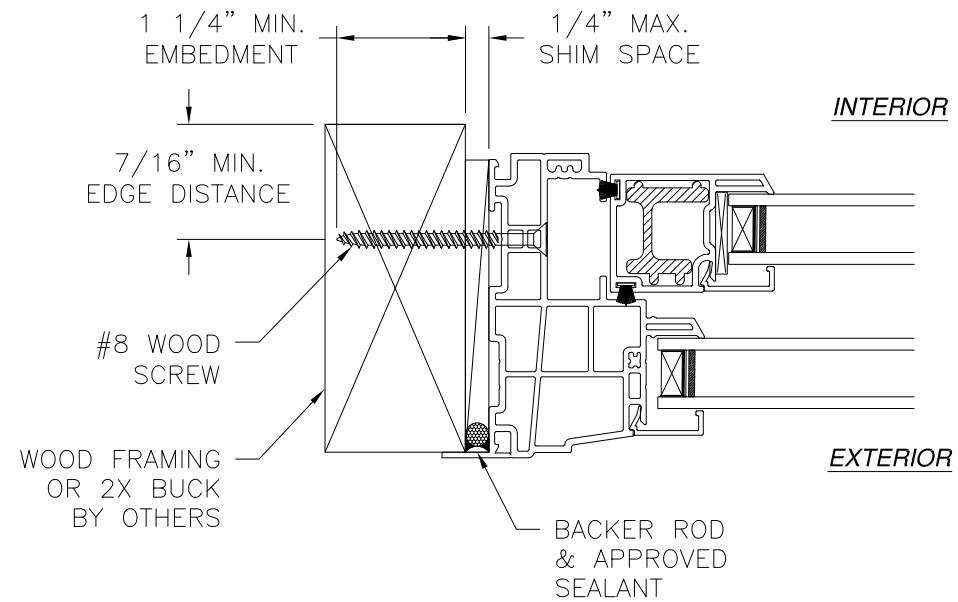
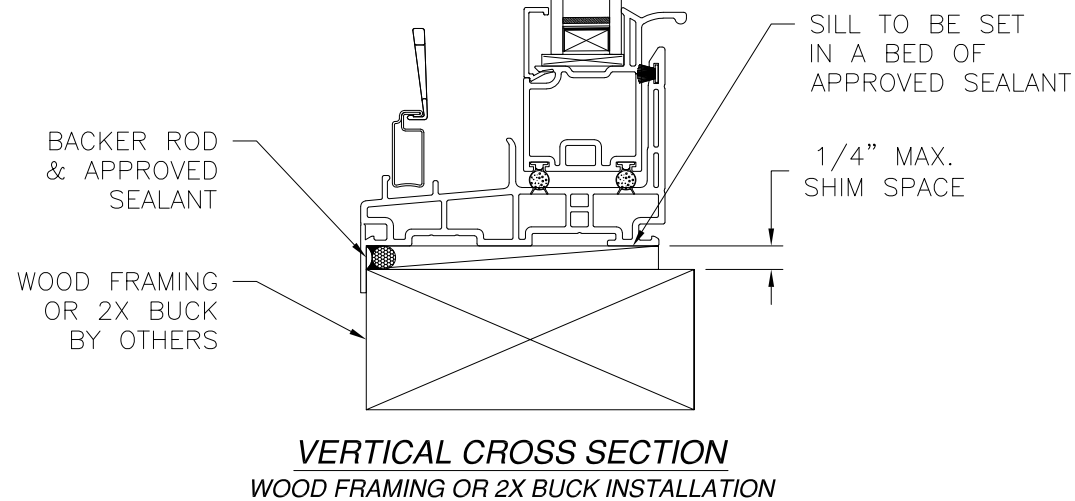
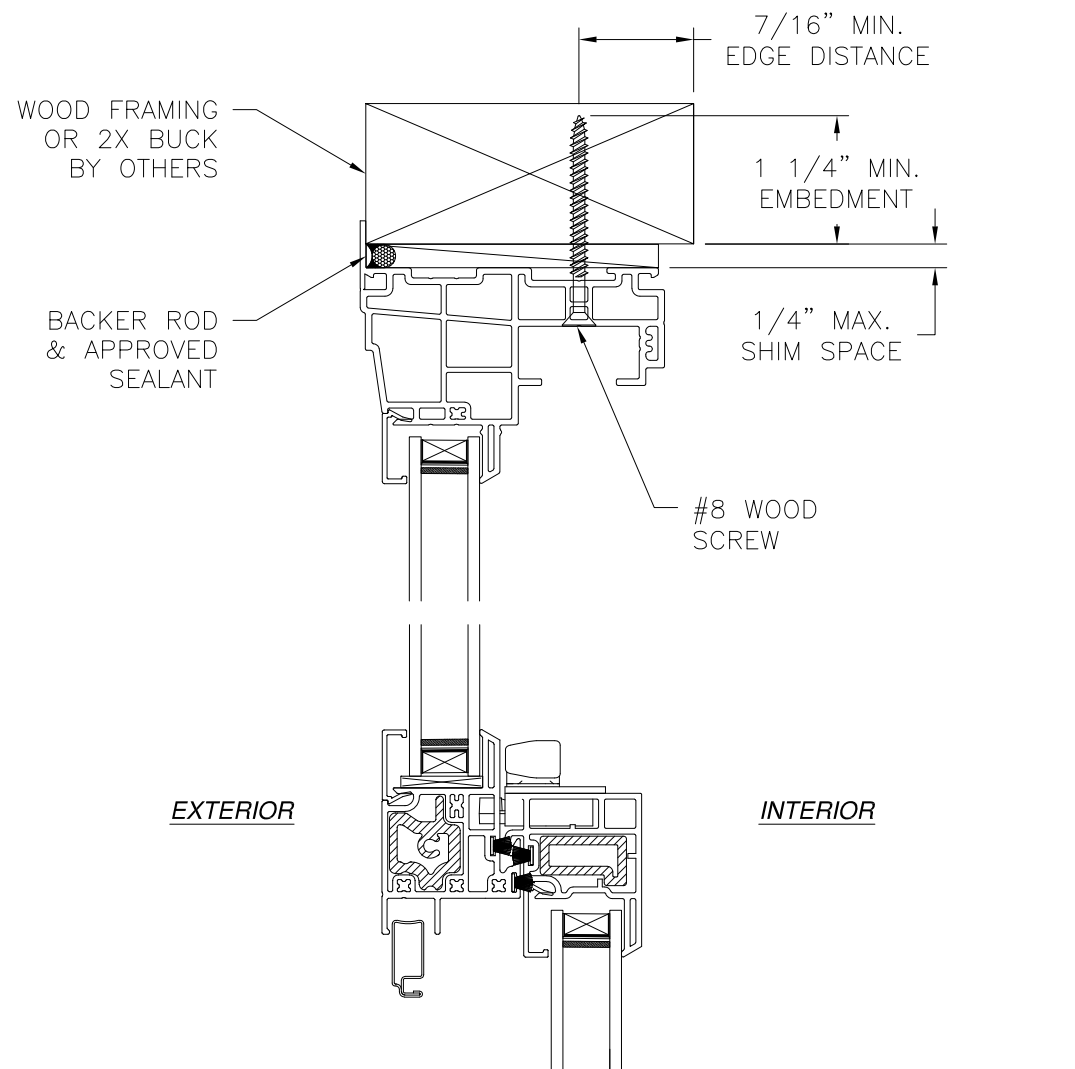
DATE
05/18/2021

SHEET
5 OF 12

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



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

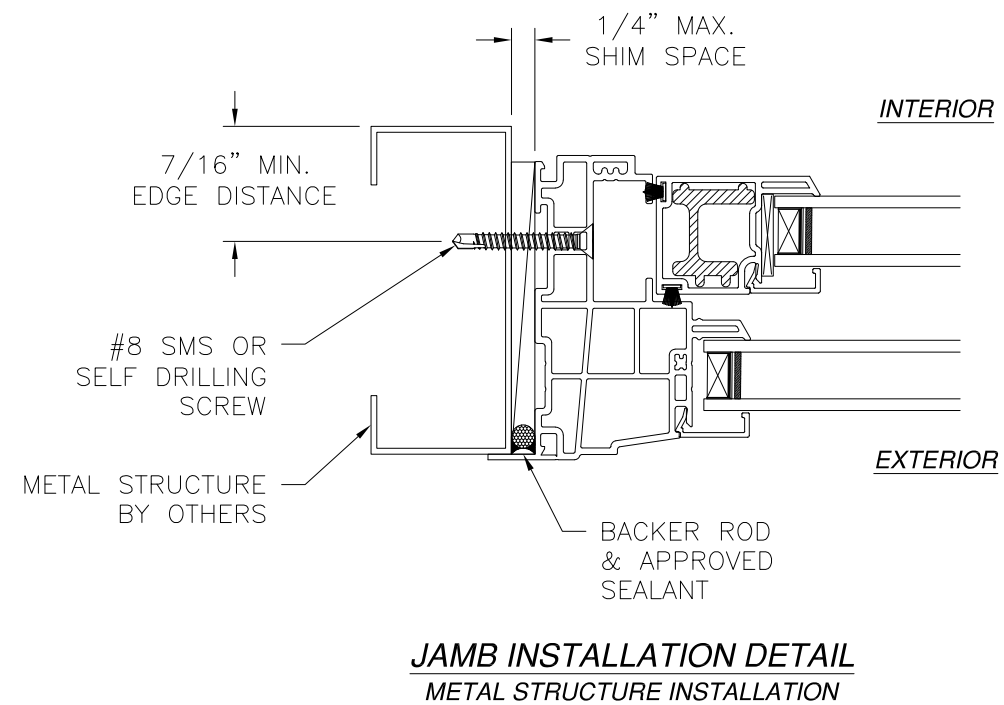
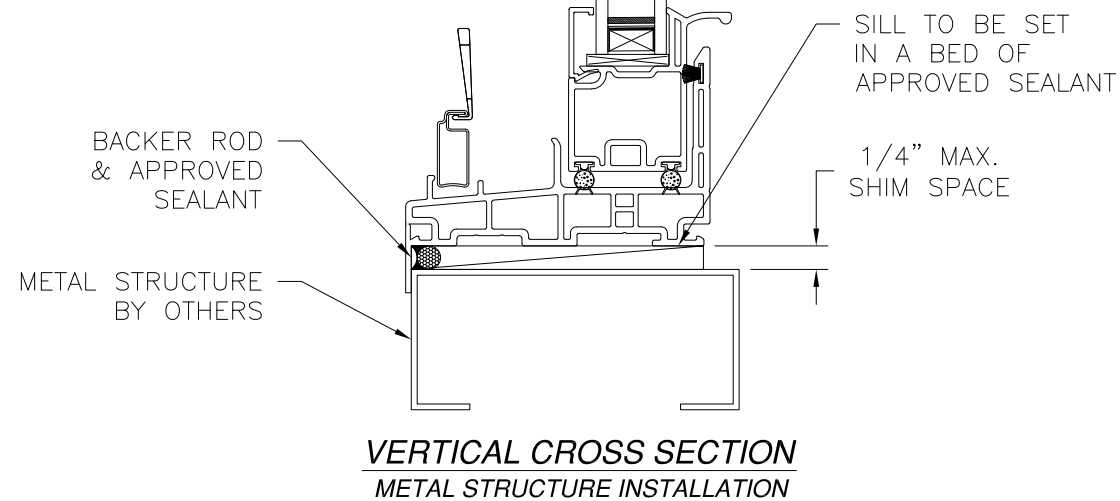
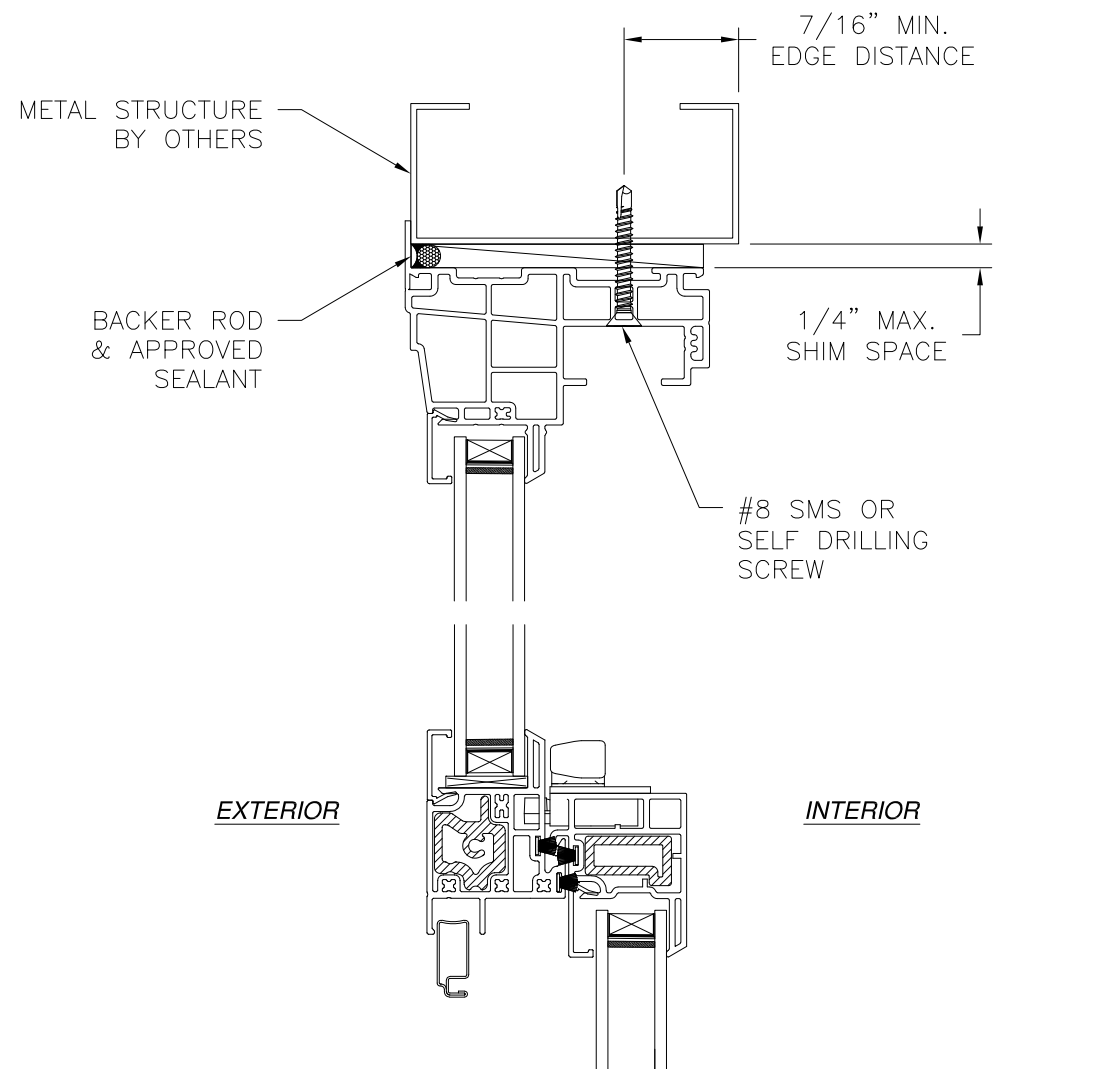
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT INSTALLATION DETAILS W/FLANGE		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 6 OF 12
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

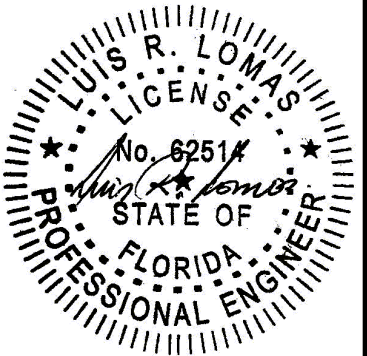
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



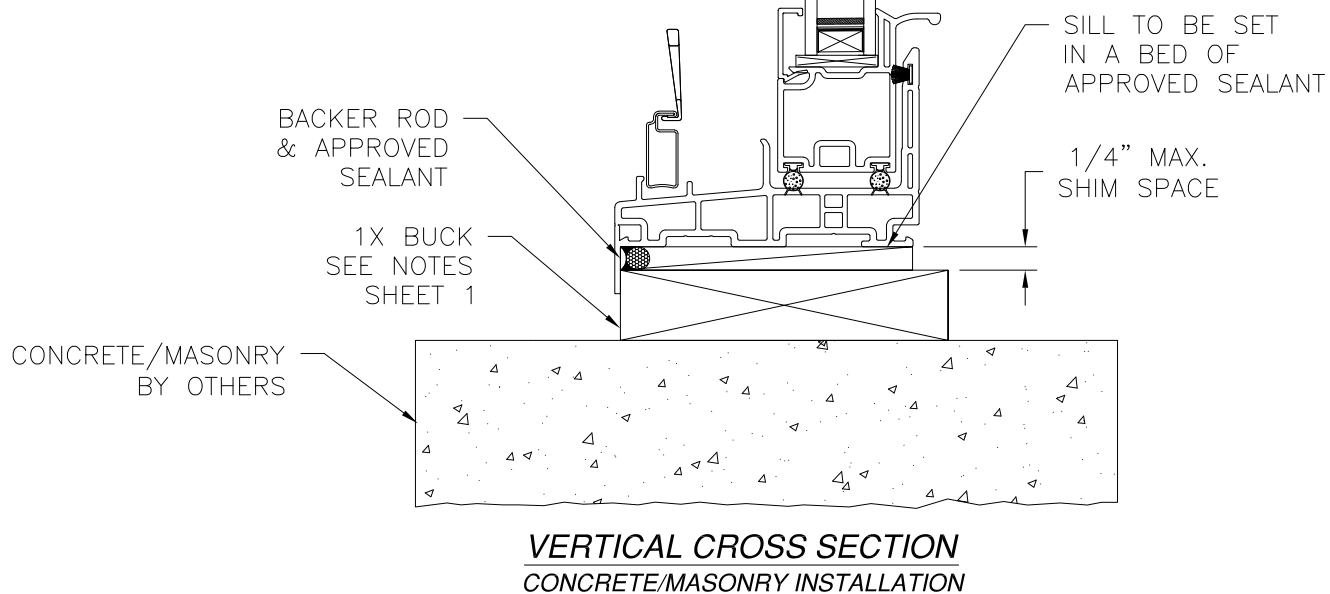
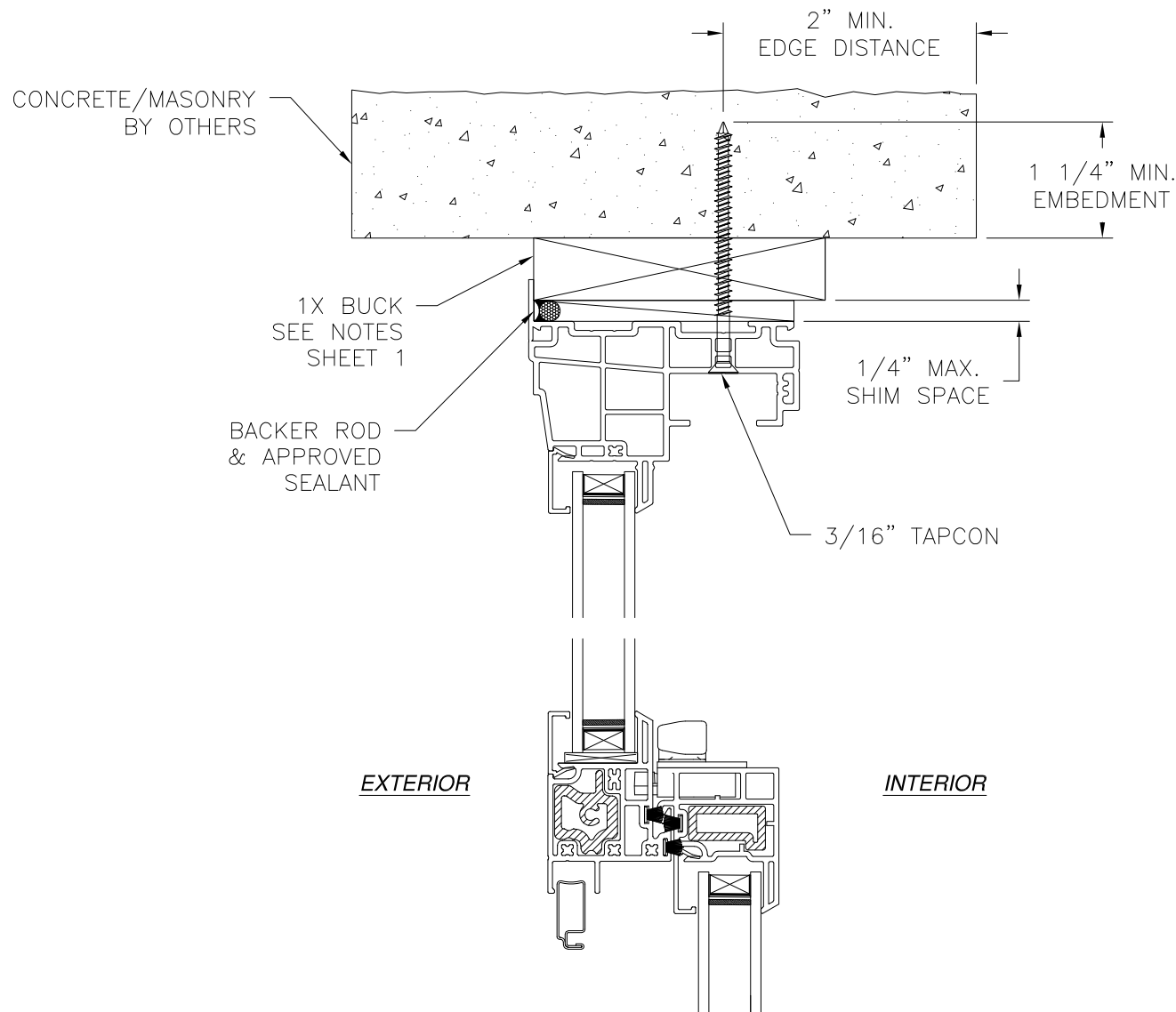
- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 08/29/2024

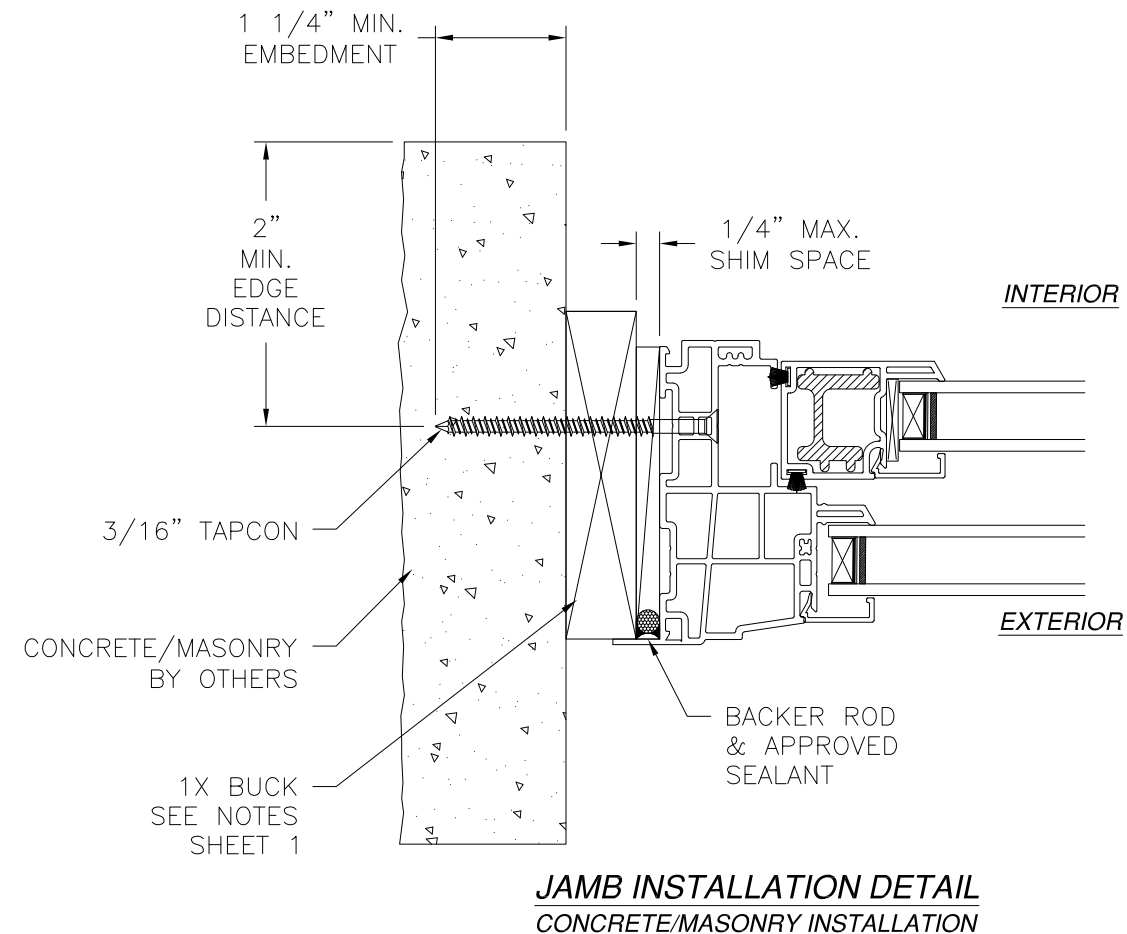
MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT INSTALLATION DETAILS W/FLANGE		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 7 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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



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

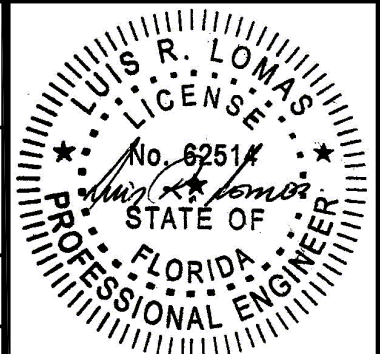


NOTES:

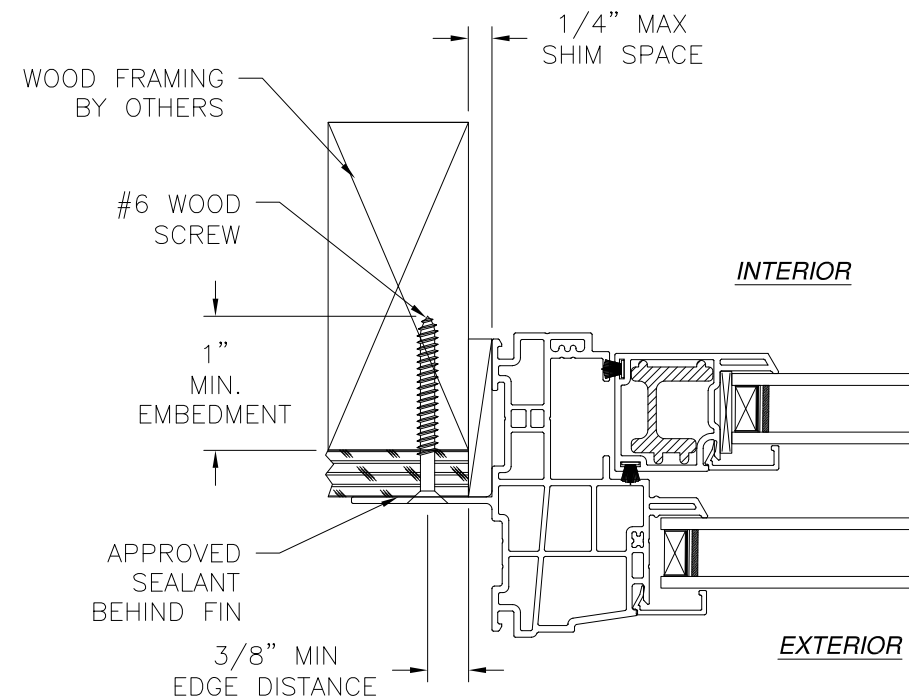
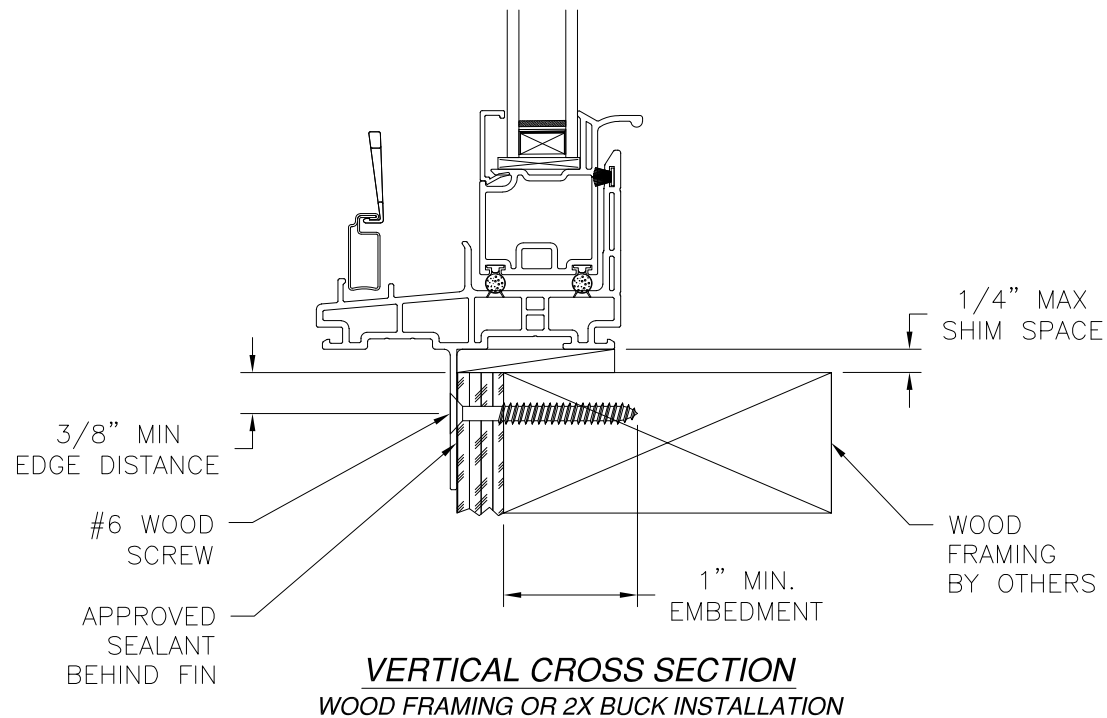
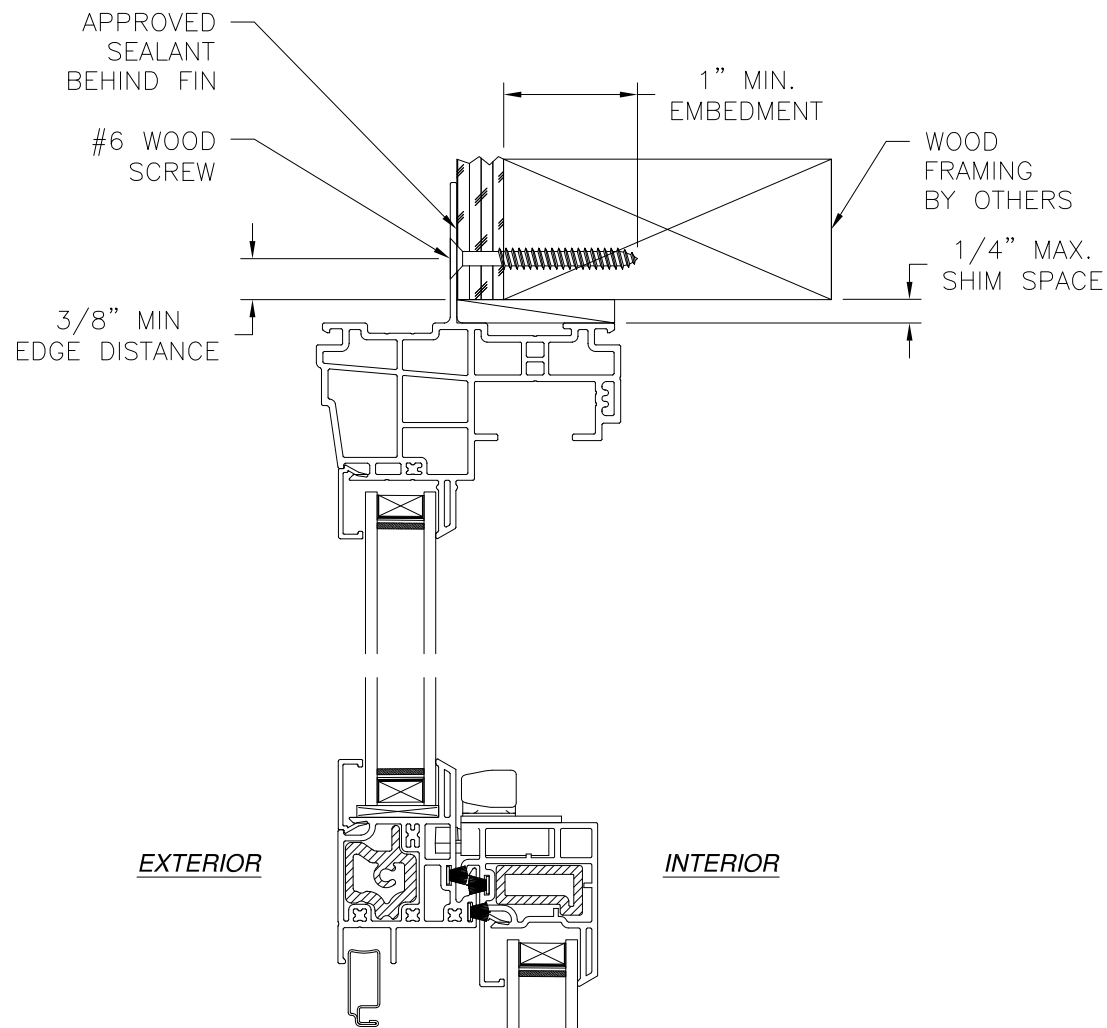
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 08/29/2024

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT INSTALLATION DETAILS W/FLANGE		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 8 OF 12
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



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:

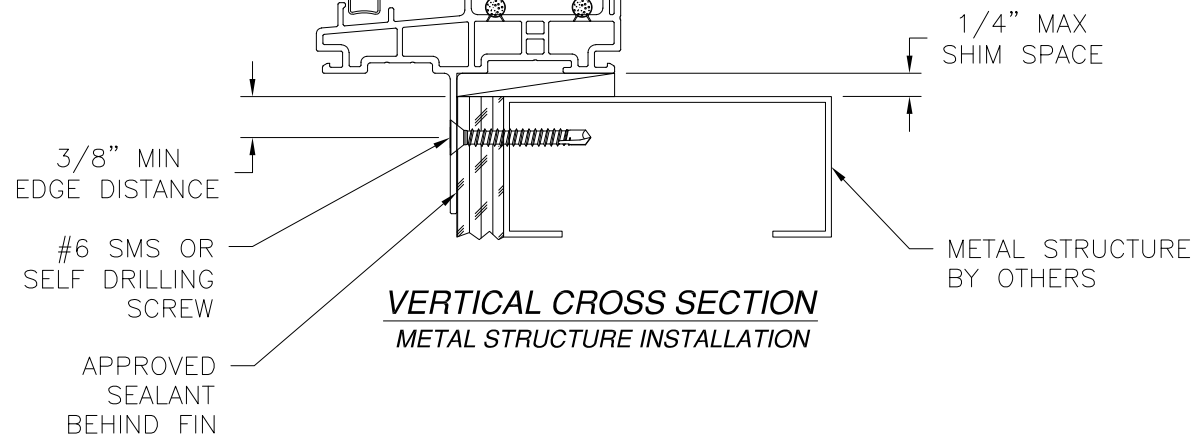
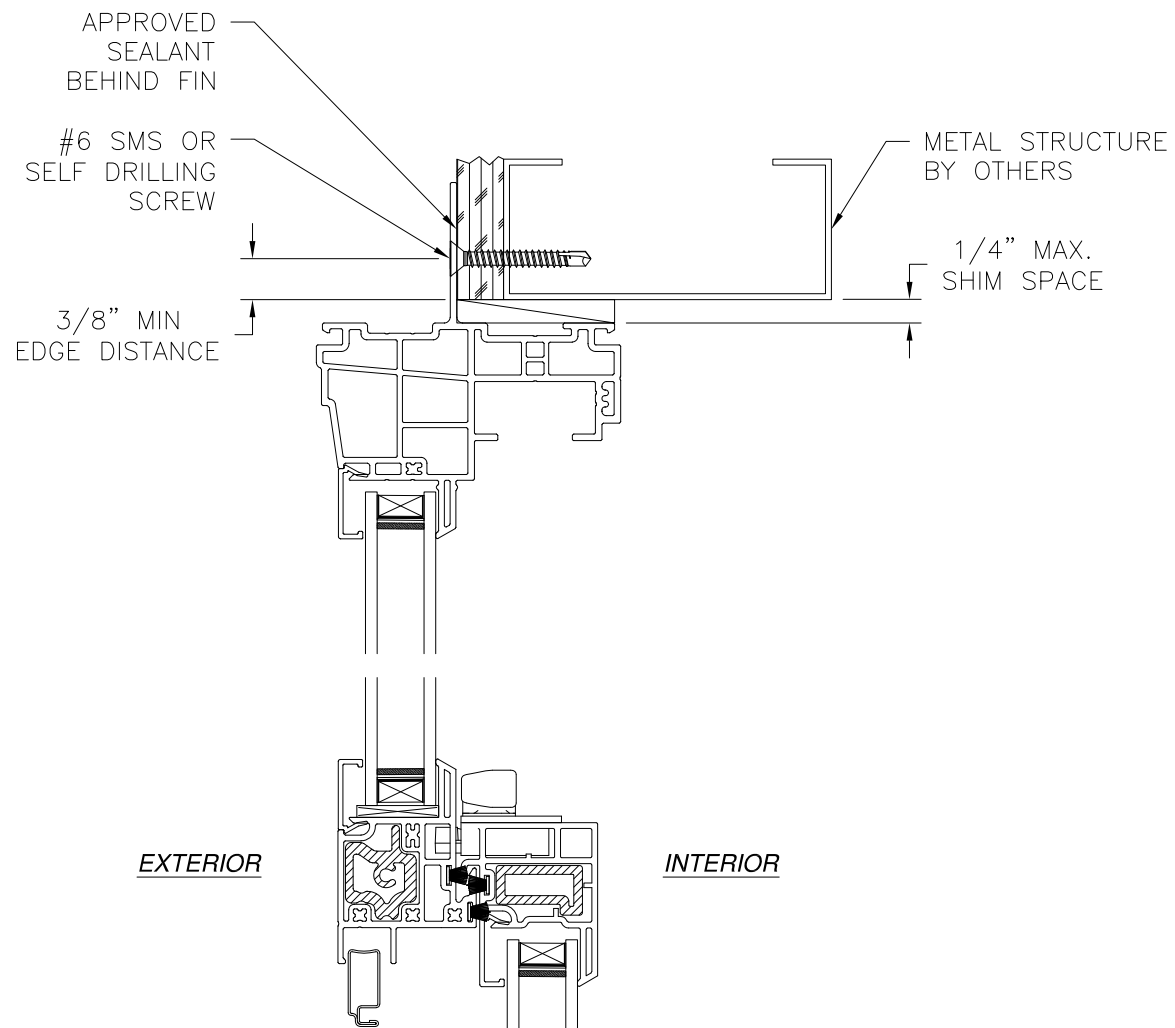
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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

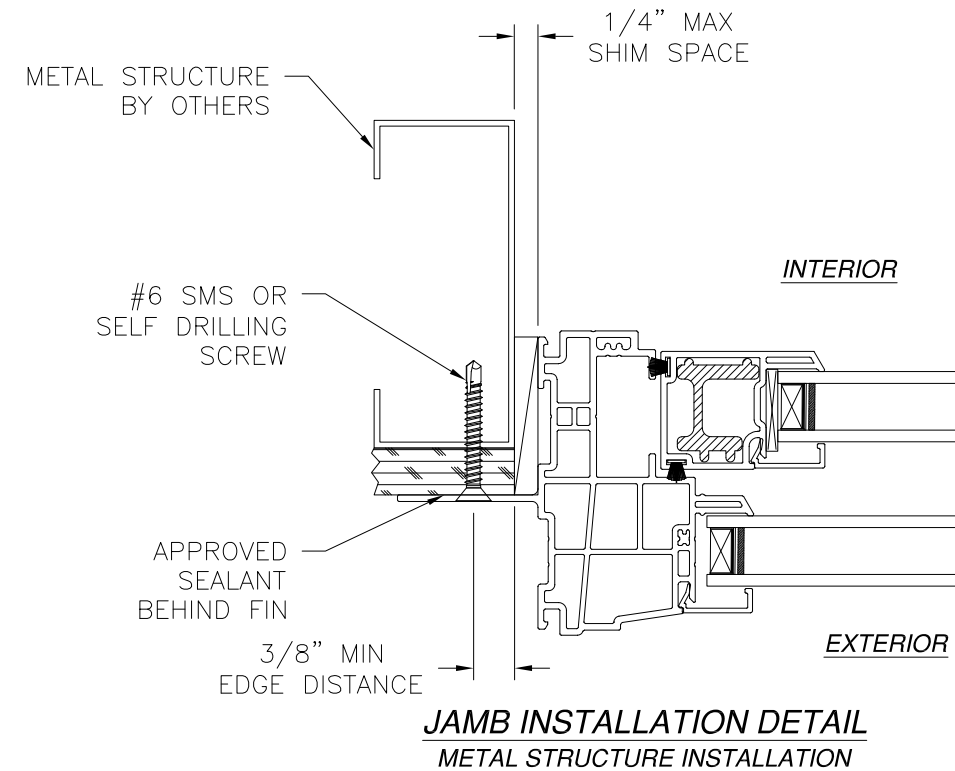
MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT FIN INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 9 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024

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



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



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

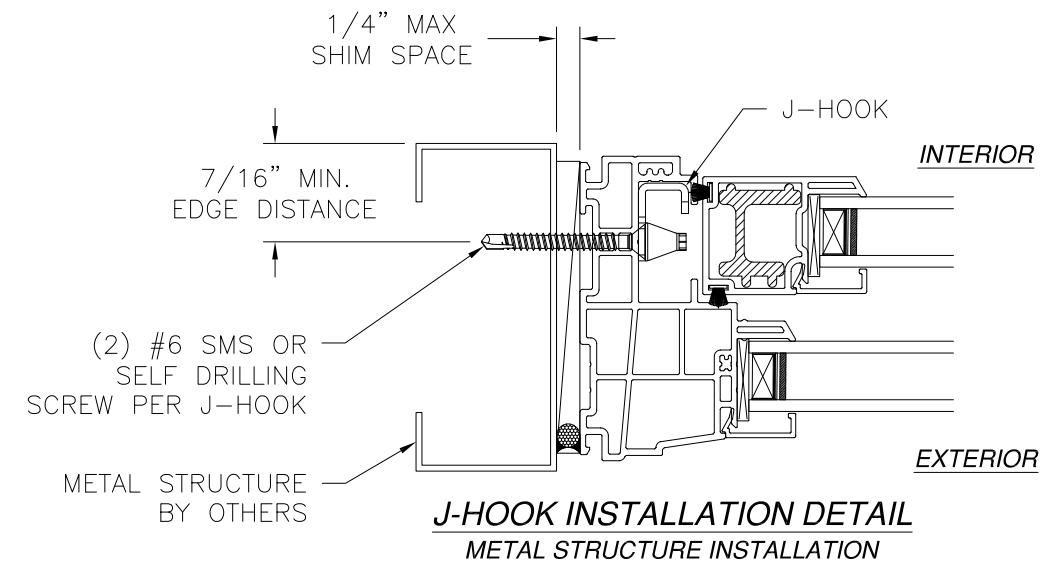
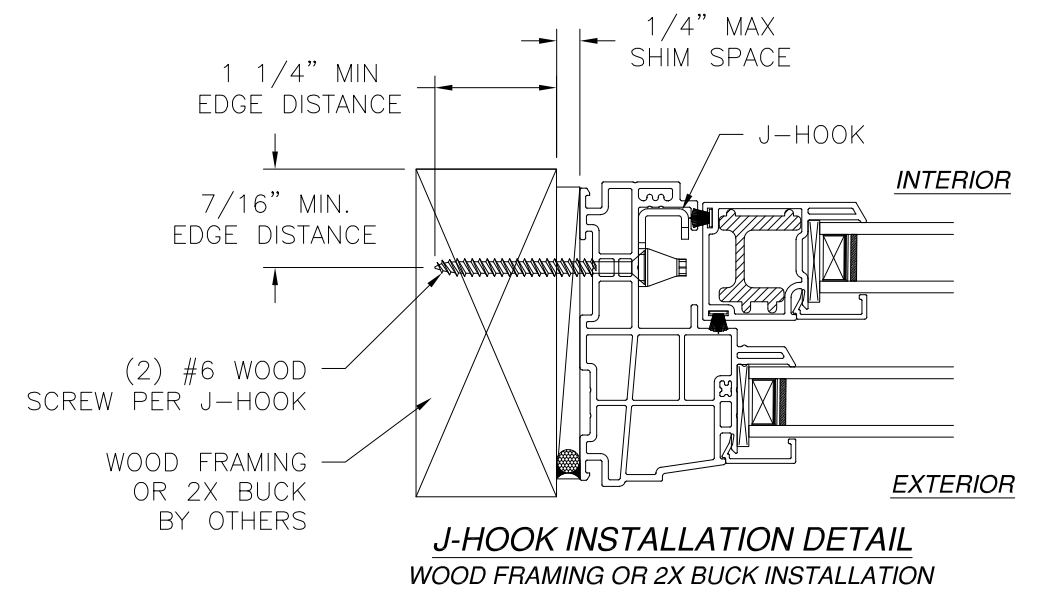
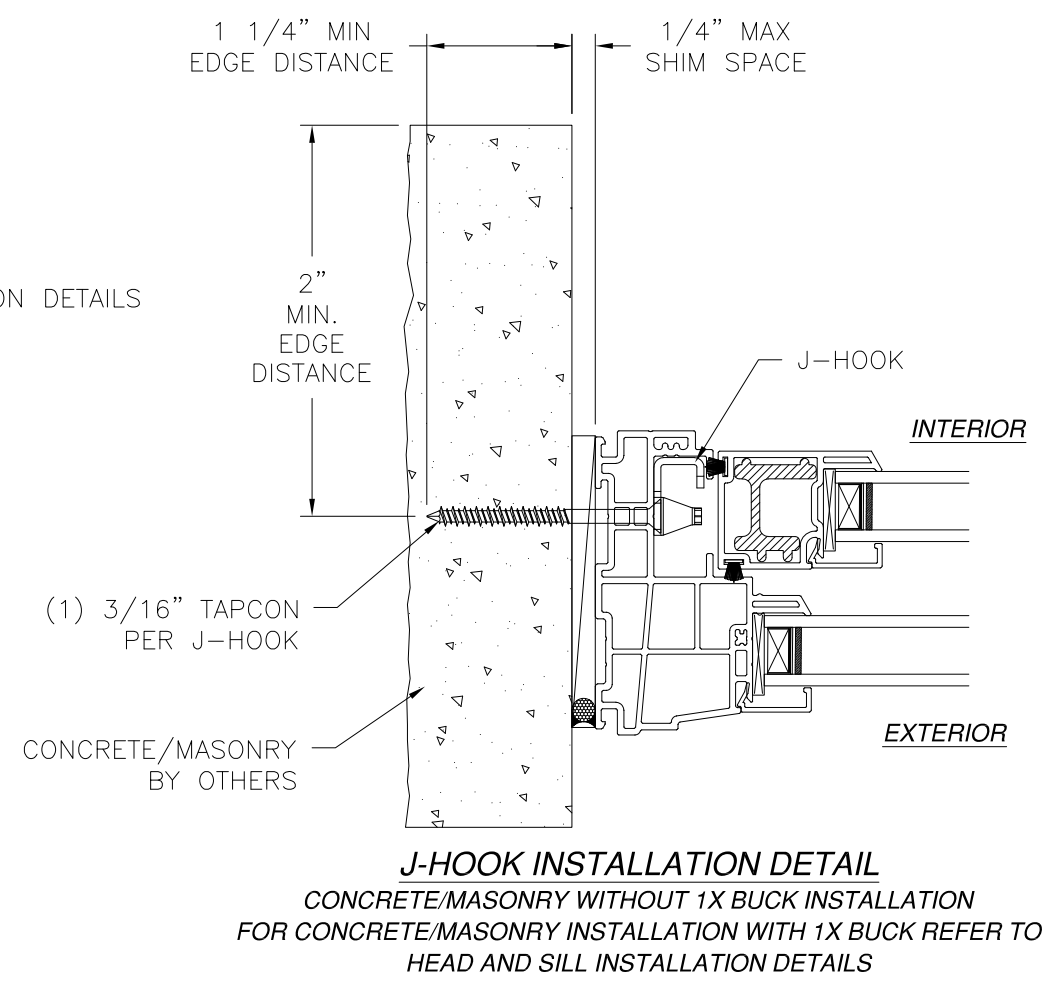
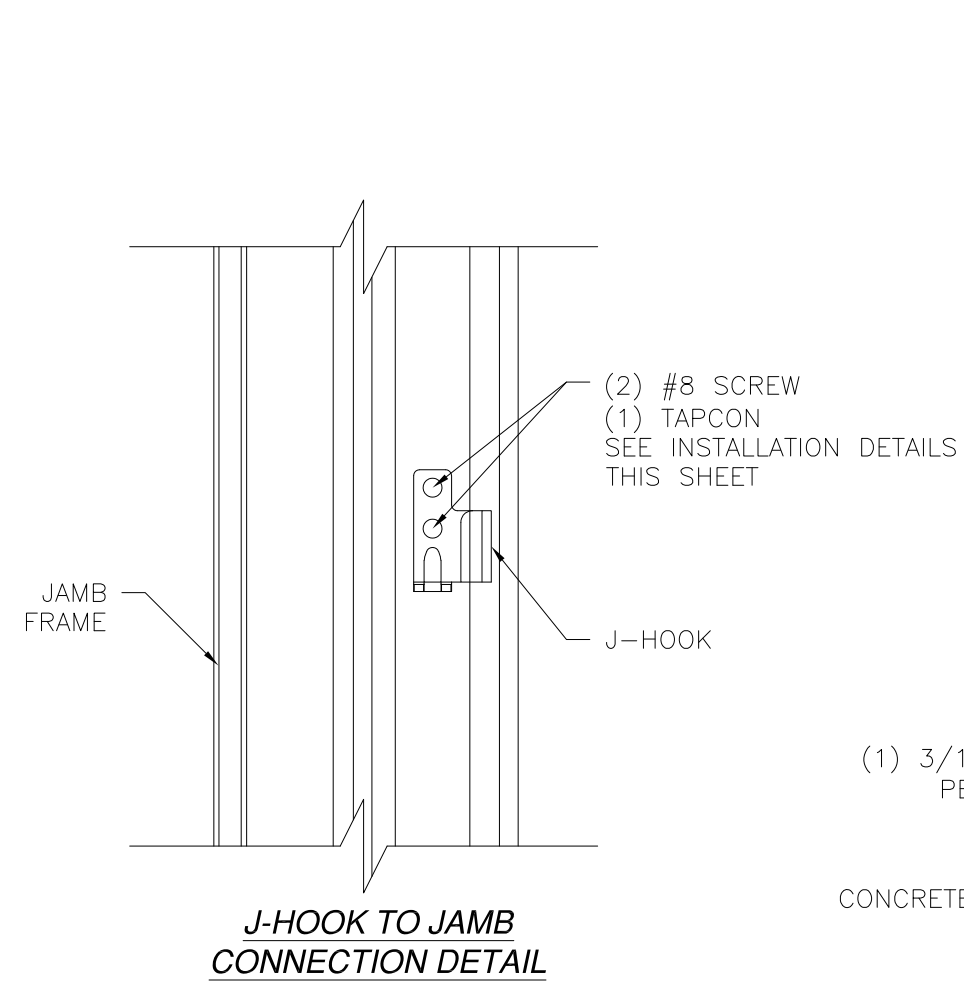
SIGNED: 08/29/2024

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT FIN INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 10 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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



SIGNED: 08/29/2024

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

SERIES 1620/1621 PVC SINGLE HUNG WINDOW
48" X 84" NON-IMPACT
J-HOOK INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03734

REV
B

SCALE
NTS

DATE
05/18/2021

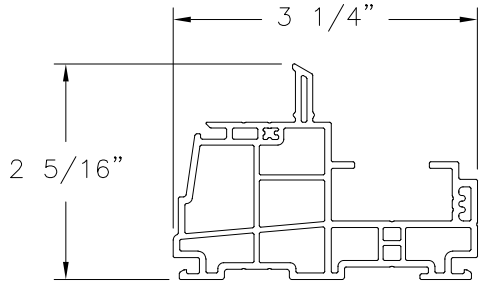
SHEET
11 OF 12

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

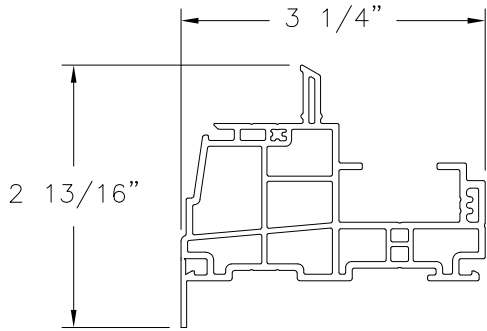
LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

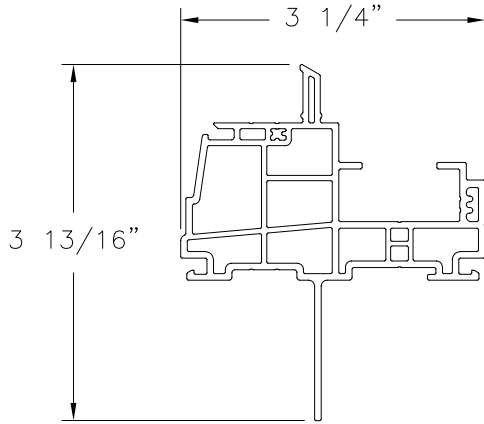
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



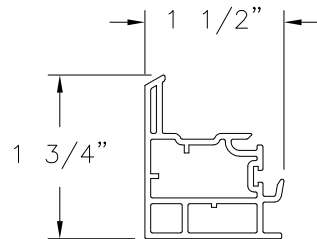
**HEAD AND JAMB
FINLESS (V-1008)**
EXTRUDED RIGID PVC



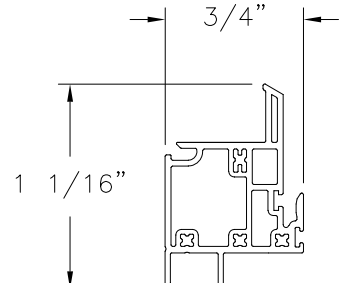
**HEAD AND JAMB
WITH FLANGE (V-1010)**
EXTRUDED RIGID PVC



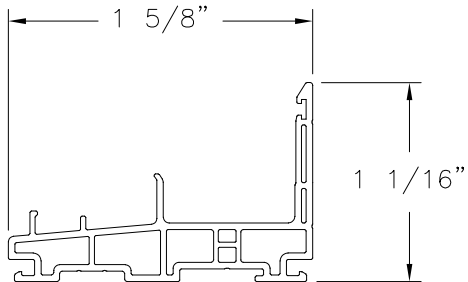
**HEAD AND JAMB
FIN (V-1007)**
EXTRUDED RIGID PVC



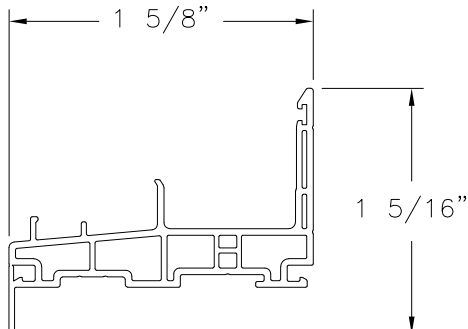
SASH/LOCK RAIL (V-675)
EXTRUDED RIGID PVC



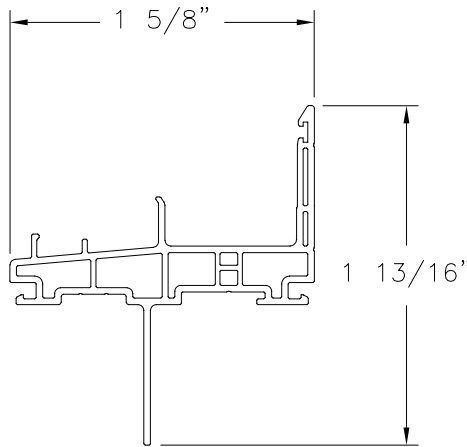
FIXED MEETING RAIL (V-1016)
EXTRUDED RIGID PVC



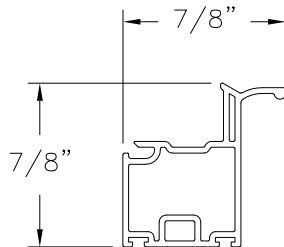
SILL FINLESS (V-1013)
EXTRUDED RIGID PVC



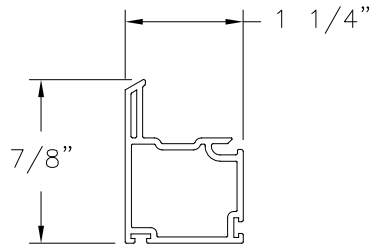
SILL WITH FLANGE (V-1015)
EXTRUDED RIGID PVC



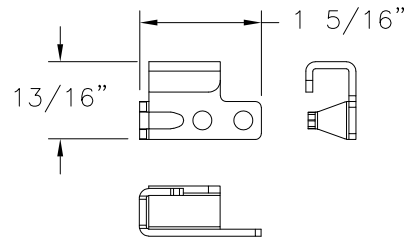
SILL FIN (V-1012)
EXTRUDED RIGID PVC



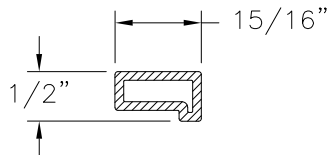
SASH/LIFT RAIL (V-672)
EXTRUDED RIGID PVC



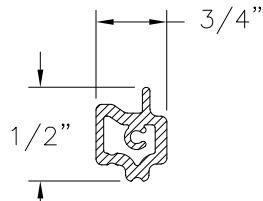
SASH STILE (V-670)
EXTRUDED RIGID PVC



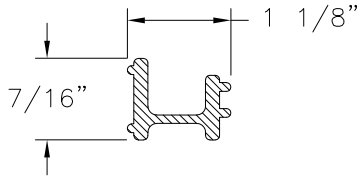
J-HOOK



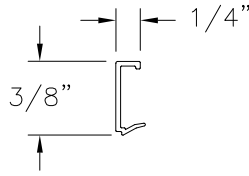
REINFORCEMENT (AE-000298)
ALUMINUM 6063-T5



REINFORCEMENT (AE-00162)
ALUMINUM 6063-T5



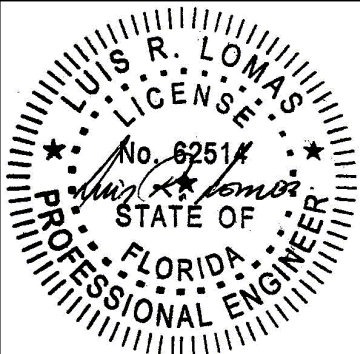
REINFORCEMENT (AE-000299)
ALUMINUM 6063-T5



GLAZING BEAD (V-904)
EXTRUDED RIGID PVC

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1620/1621 PVC SINGLE HUNG WINDOW 48" X 84" NON-IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03734	REV B
SCALE NTS	DATE 05/18/2021	SHEET 12 OF 12
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