

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	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 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 ALUMINUM 6005–T5.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 26 FOR GLASS DETAIL. GLASS THICKNESS SHOWN IN GLAZING DETAIL IS THE MINIMUM THICKNESS REQUIRED.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4” ELCO CRETE–FLEX 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.
15. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #14 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. ALL FASTENERS TO BE CORROSION RESISTANT.
17. 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
18. APPROVED CONFIGURATIONS: OX, XO, XX, OXXO, PX, XP, PXXP, PIX, XIP, PIXXIP, XIX, OIX, XIO, PIIX, XIIP, XIIX, OIIX, XIIO, PIIIX, XIIIP, OXO, OIXXIO, PIIXXIIP.
19. DOOR ASSEMBLIES INSTALLED WHERE OVERHANG RATIO IS EQUAL OR GREATER THAN 1.0 DO NOT REQUIRE WATER INFILTRATION RESISTANCE.

OVERHANG RATIO = OVERHANG LENGHT/OVERHANG HEIGHT.

SIGNED: 07/27/2023

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

SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08–03259

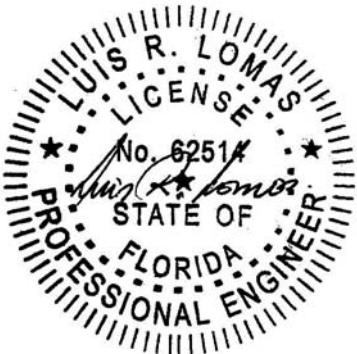
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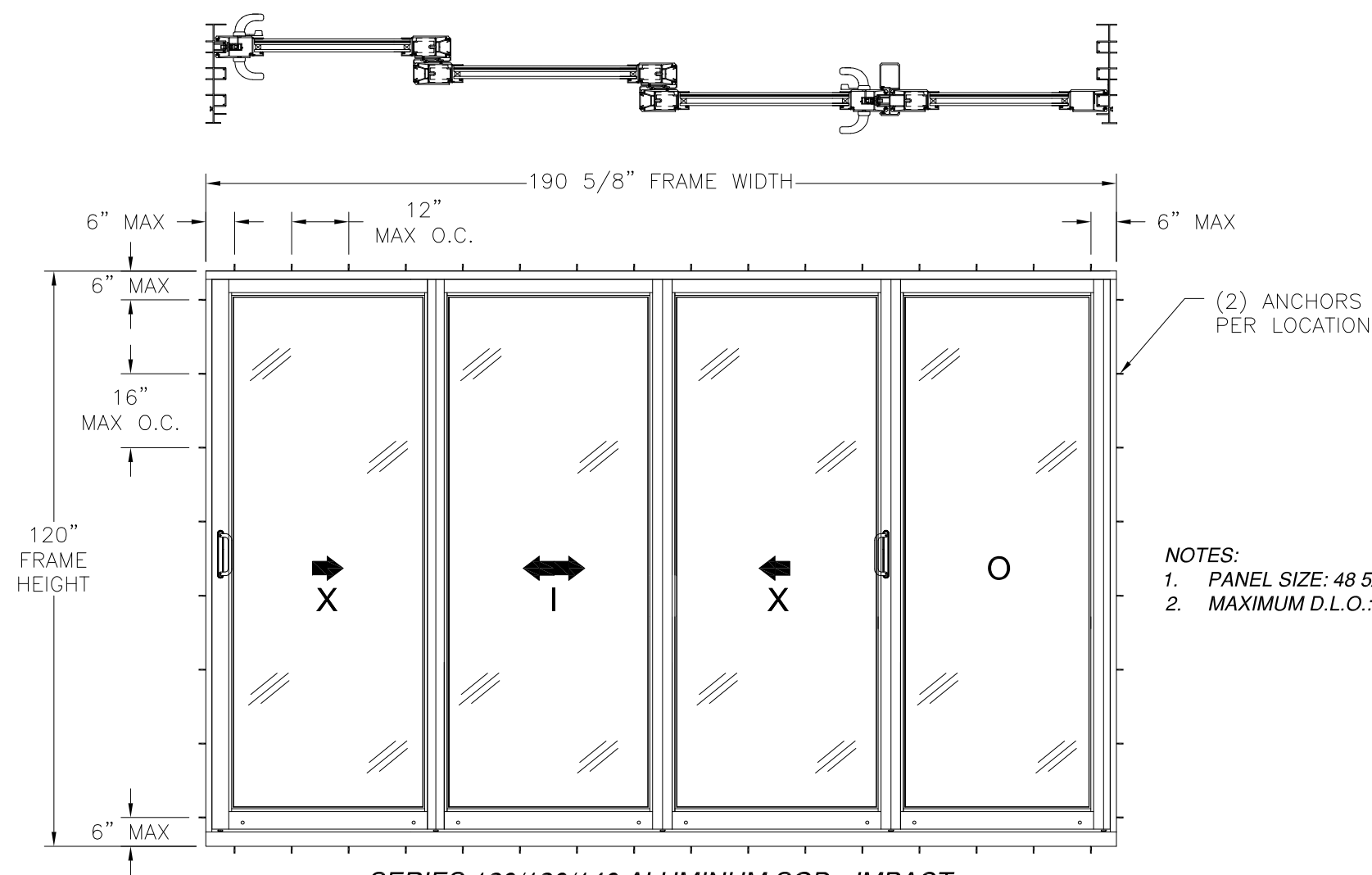
SHEET 1 OF 28

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



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



- NOTES:
- PANEL SIZE: 48 5/8" x 117 1/2"
 - MAXIMUM D.L.O.: 40 5/8" x 109 3/4"

SERIES 120/130/140 ALUMINUM SGD - IMPACT

EXTERIOR VIEW

FINLESS & FLANGE INSTALLATION

(4) PANELS SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS
ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 40.49 FT²

WITH 2 5/8" SILL EXTENDERS

DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-65.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #1, SHEET 4

WITH 3 1/2" SILL EXTENDERS

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-65.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #2, SHEET 4

WITH 2 5/8" & 3 1/2" SILL EXTENDERS

DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #3, SHEET 4

HARDWARE SCHEDULE

A.	TANDEM ROLLER ASSEMBLY, 2 PER PANEL, 8" FROM EACH END OF BOTTOM RAIL
B.	LOCK HANDLE BY TRUTH/AMESBURY, 1 PER INTERIOR OR EXTERIOR OPERABLE PANEL JAMB STILE, 39" FROM BOTTOM RAIL
C.	LOCK HANDLE BY FASCO, 1 PER INTERIOR OR EXTERIOR OPERABLE PANEL LOCK STILE, 39" FROM BOTTOM RAIL
D.	ALUMINUM REINFORCEMENT (M-2516), AT ALL OPERABLE AND FIXED PANEL INTERLOCK AND MEETING STILES

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GRATZ, PA 17030

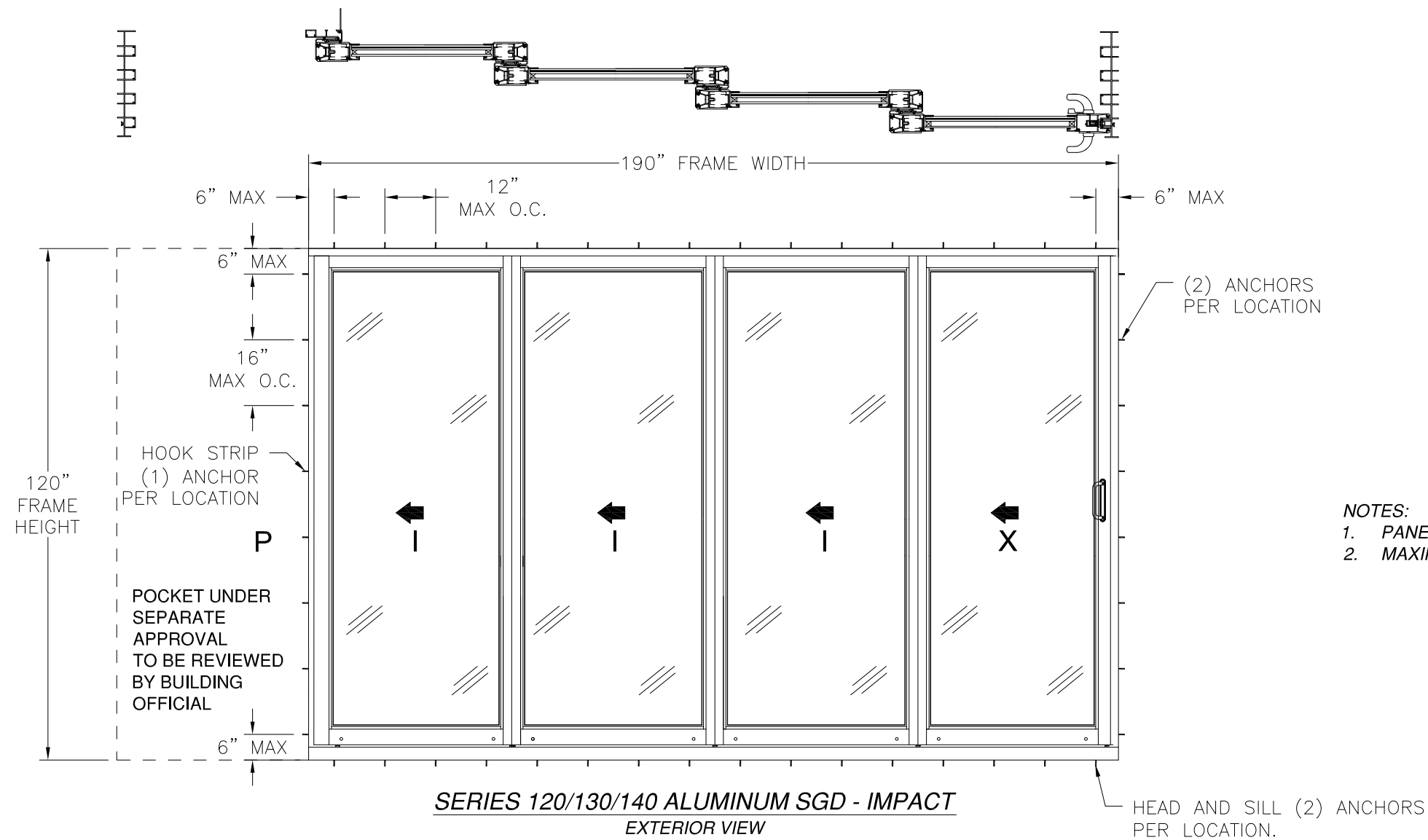
SERIES 120/130/140 ALUMINUM SGD
REINFORCED - LARGE AND SMALL MISSILE IMPACT
ELEVATION

DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 2 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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 - 2. MAXIMUM D.L.O.: 40 5/8" x 109 3/4"

SERIES 120/130/140 ALUMINUM SGD - IMPACT
EXTERIOR VIEW
FINLESS & FLANGE INSTALLATION WITH HOOK STRIP
(4) PANELS SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS
ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 40.49 FT²

WITH 2 5/8" SILL EXTENDERS	
DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-65.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #1, SHEET 4

WITH 3 1/2" SILL EXTENDERS	
DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-65.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #2, SHEET 4

WITH 2 5/8" & 3 1/2" SILL EXTENDERS	
DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #3, SHEET 4

HARDWARE SCHEDULE	
A.	TANDEM ROLLER ASSEMBLY, 2 PER PANEL, 8" FROM EACH END OF BOTTOM RAIL
B.	LOCK HANDLE BY TRUTH/AMESBURY, 1 PER INTERIOR OR EXTERIOR OPERABLE PANEL JAMB STILE, 39" FROM BOTTOM RAIL
C.	LOCK HANDLE BY FASCO, 1 PER INTERIOR OR EXTERIOR OPERABLE PANEL LOCK STILE, 39" FROM BOTTOM RAIL
D.	ALUMINUM REINFORCEMENT (M-2516), AT ALL OPERABLE AND FIXED PANEL INTERLOCK AND MEETING STILES

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Chart #1
Maximum Design pressure (psf)
Units installed with 2 5/8" sill

Panel Height (in)	Single Panel Width (in)											
	24.0		30.0		36.0		42.0		48.625		54.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0
84.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0
90.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0
96.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0
102.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0
108.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	-	-
114.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	-	-
117.5	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	-	-
120.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	65.0	-	-	-	-
126.0	45.0	65.0	45.0	65.0	45.0	65.0	45.0	59.5	-	-	-	-
132.0	45.0	65.0	45.0	65.0	45.0	59.5	45.0	51.6	-	-	-	-
138.0	45.0	65.0	45.0	61.8	45.0	51.9	-	-	-	-	-	-
144.0	45.0	65.0	45.0	54.3	45.0	45.6	-	-	-	-	-	-

Chart #2
Maximum Design pressure (psf)
Units installed with 3 1/2" sill

Panel Height (in)	Single Panel Width (in)											
	24.0		30.0		36.0		42.0		48.625		54.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0
84.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0
90.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0
96.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0
102.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0
108.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-
114.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-
117.5	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-
120.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-	-	-
126.0	60.0	65.0	60.0	65.0	60.0	65.0	59.5	59.5	-	-	-	-
132.0	60.0	65.0	60.0	65.0	59.5	59.5	51.6	51.6	-	-	-	-
138.0	60.0	65.0	60.0	61.8	51.9	51.9	-	-	-	-	-	-
144.0	60.0	65.0	54.3	54.3	45.6	45.6	-	-	-	-	-	-

Chart #3
Maximum Design pressure (psf)
For units installed where water penetration resistance is not required

Panel Height (in)	Single Panel Width (in)											
	24.0		30.0		36.0		42.0		48.625		54.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
84.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
90.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
96.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
102.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
108.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-
114.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-
117.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-
120.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-
126.0	65.0	65.0	65.0	65.0	65.0	65.0	59.5	59.5	-	-	-	-
132.0	65.0	65.0	65.0	65.0	59.5	59.5	51.6	51.6	-	-	-	-
138.0	65.0	65.0	61.8	61.8	51.9	51.9	-	-	-	-	-	-
144.0	65.0	65.0	54.3	54.3	45.6	45.6	-	-	-	-	-	-

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SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
DESIGN PRESSURE CHARTS

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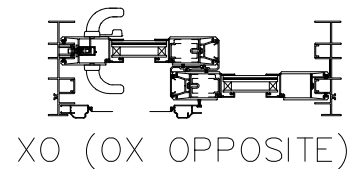
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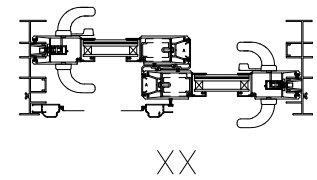
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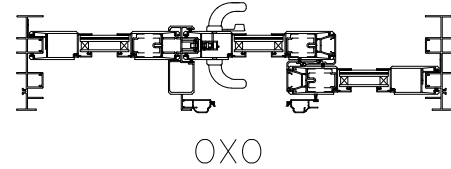
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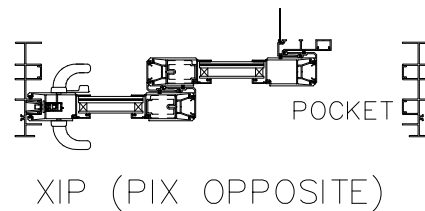
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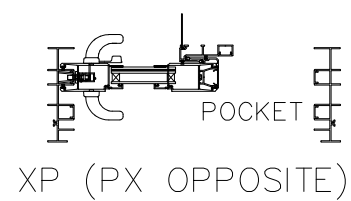
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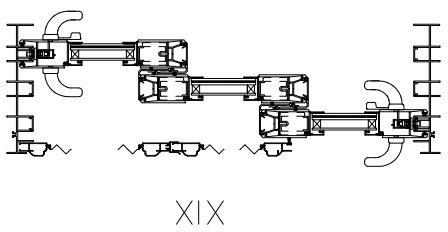
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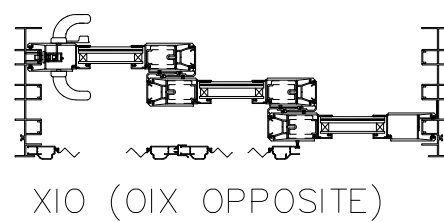
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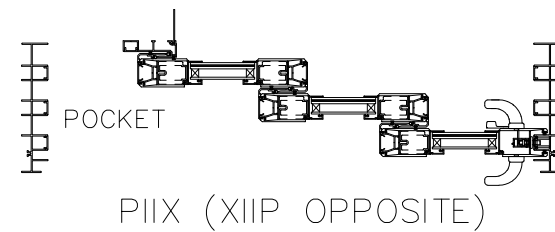
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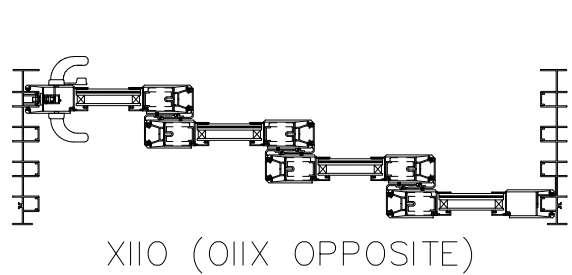
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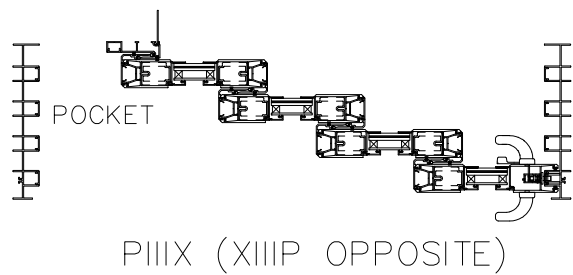
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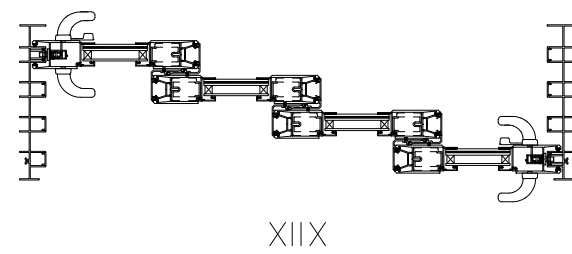
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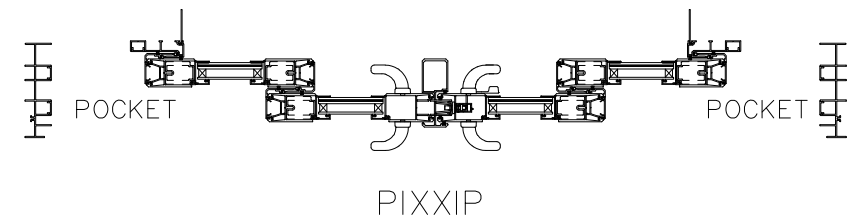
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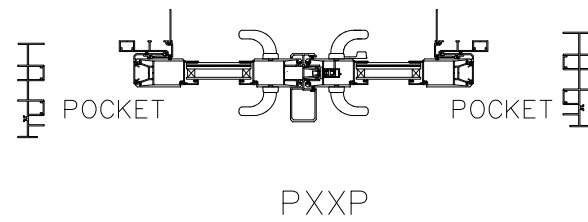
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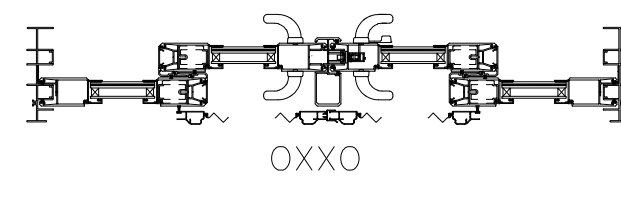
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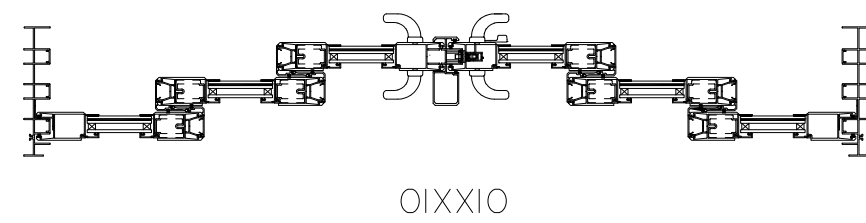
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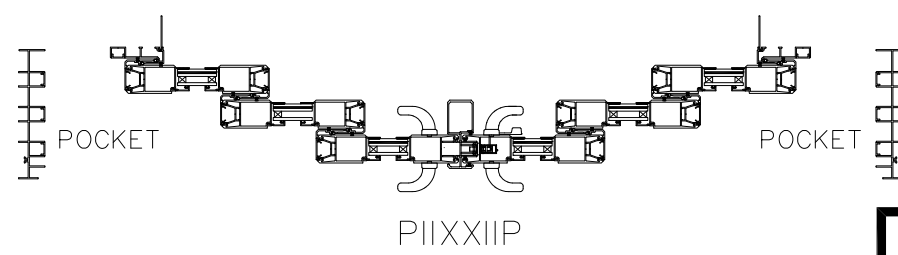
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LAYOUTS SHOWN AS REFERENCE ONLY.
PANELS MAY BE MIXED & MATCHED AS
NECESSARY

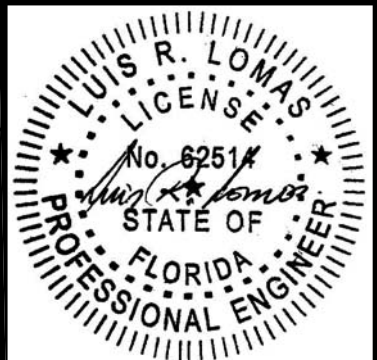
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FINLESS PLAN VIEWS

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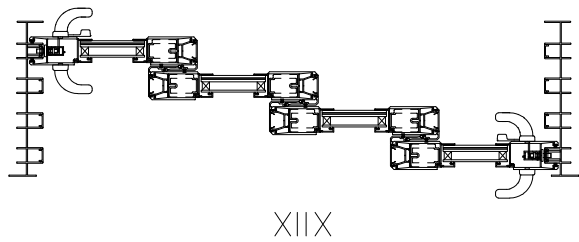
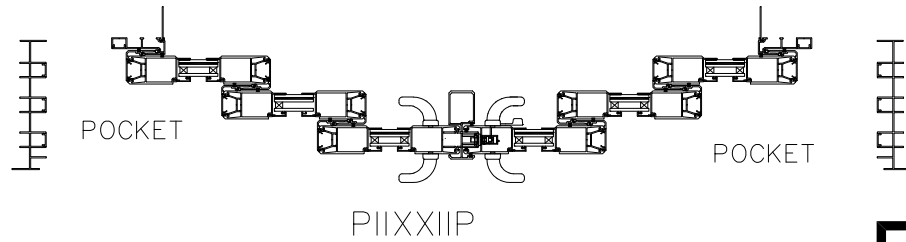
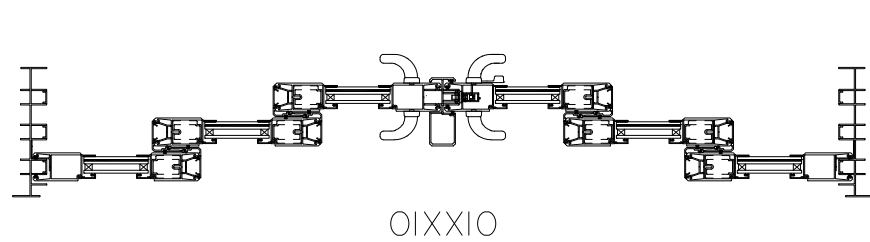
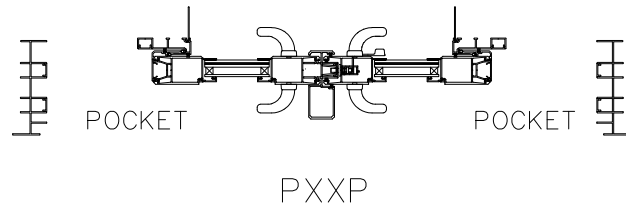
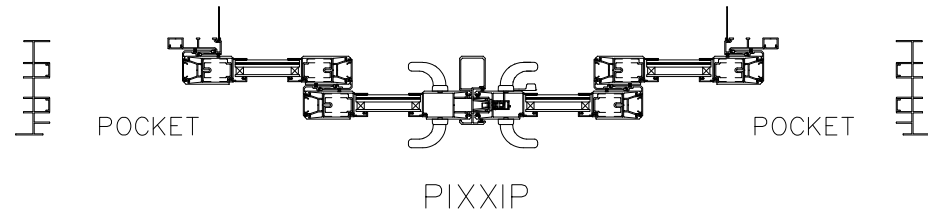
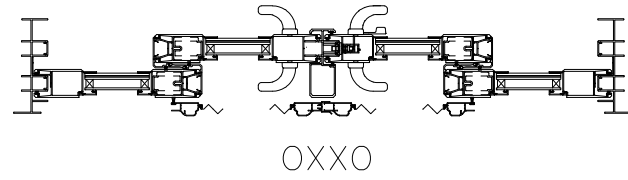
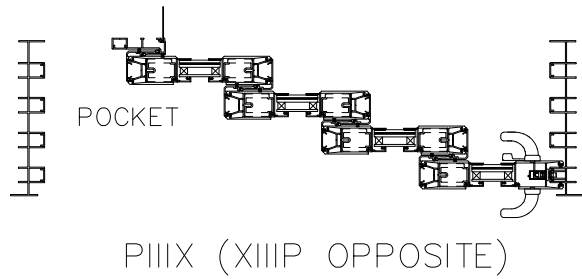
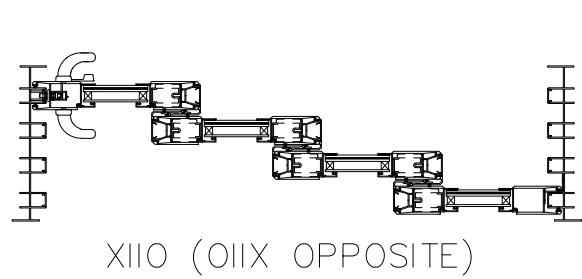
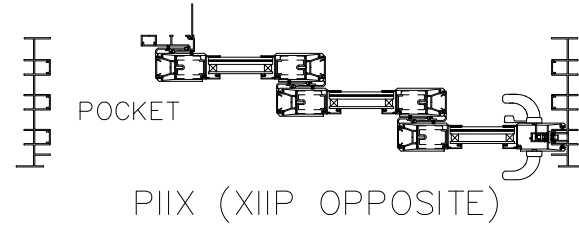
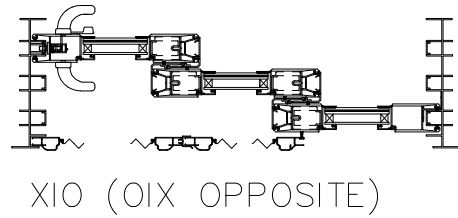
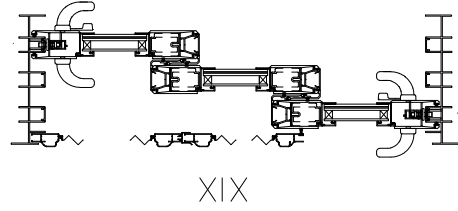
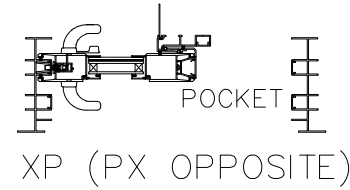
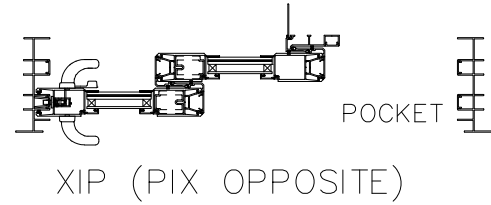
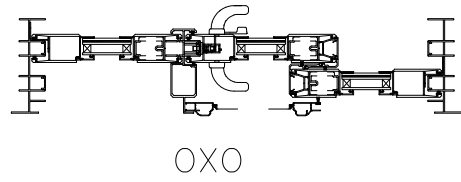
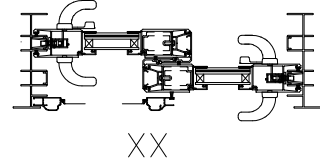
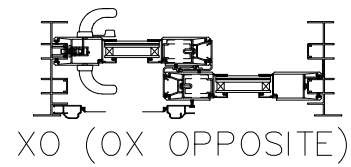


Luis R. Lomas P.E.
FL No.: 62514





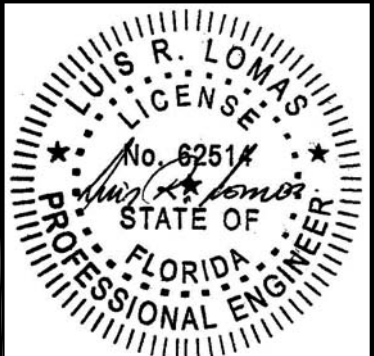
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



LAYOUTS SHOWN AS REFERENCE ONLY.
PANELS MAY BE MIXED & MATCHED AS
NECESSARY

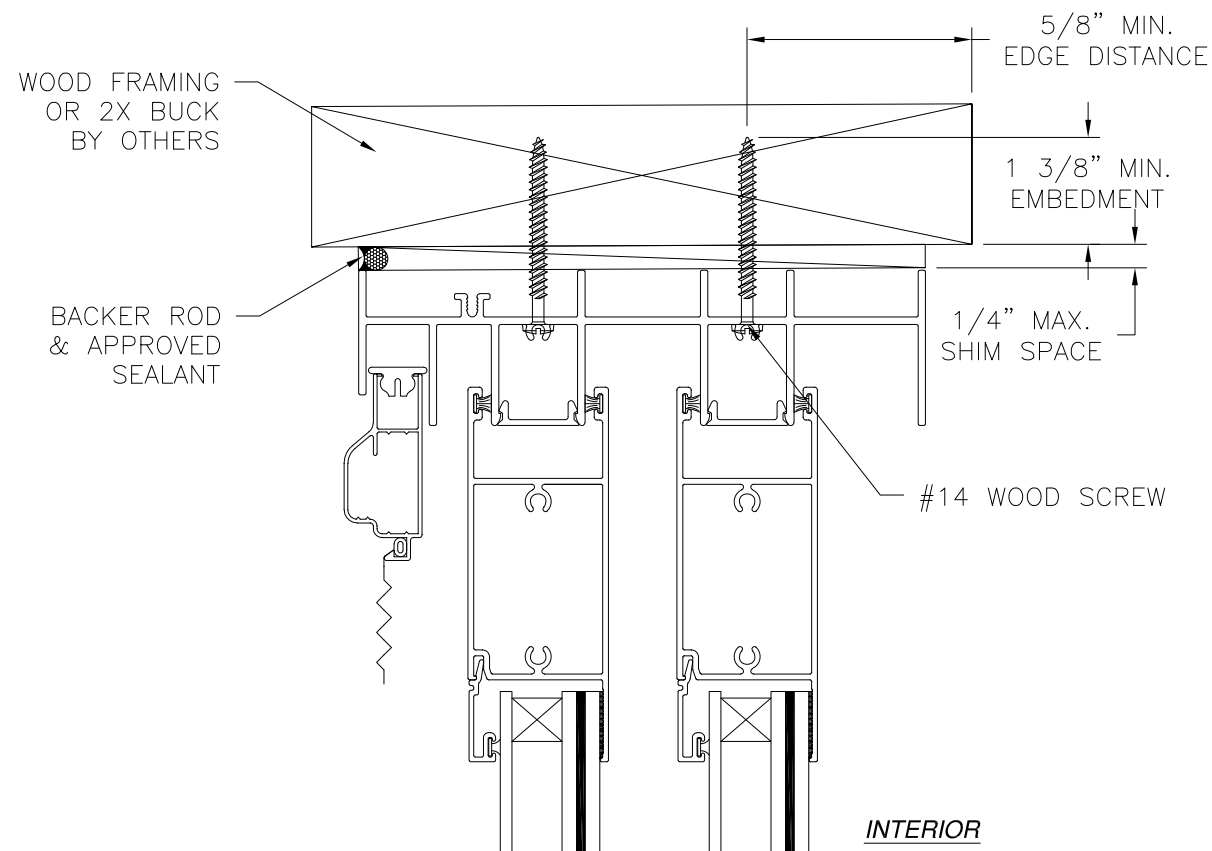
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SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT FLANGE PLAN VIEWS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 6 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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



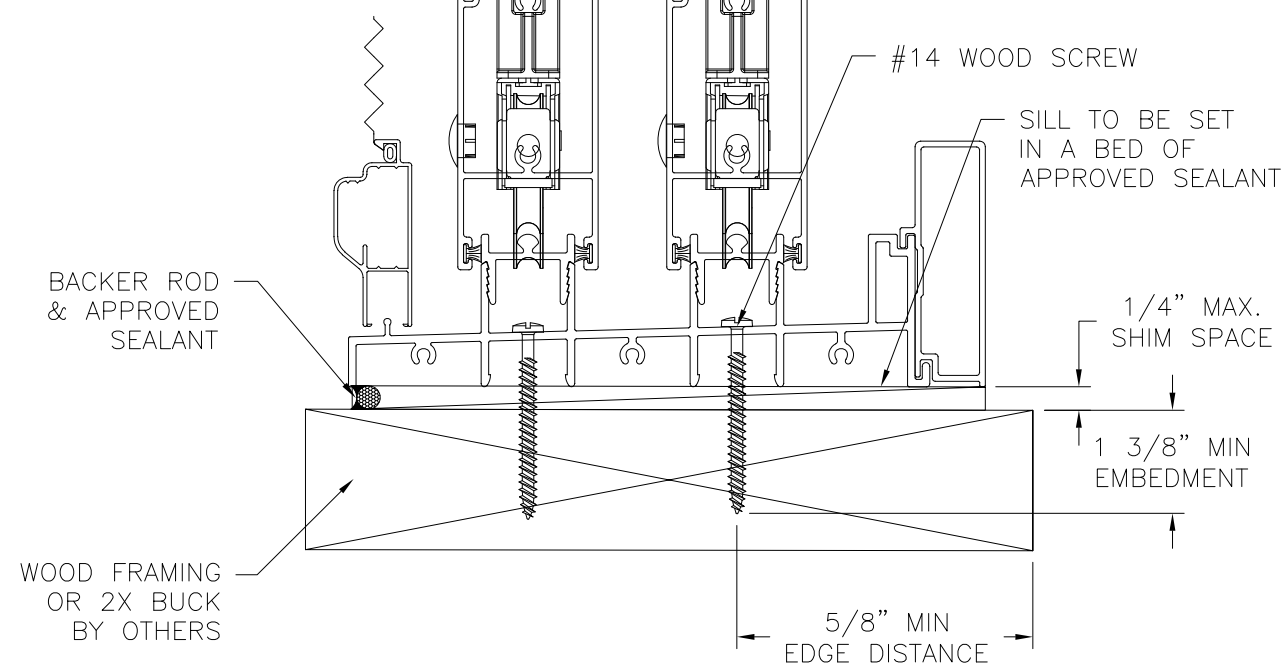


EXTERIOR

INTERIOR

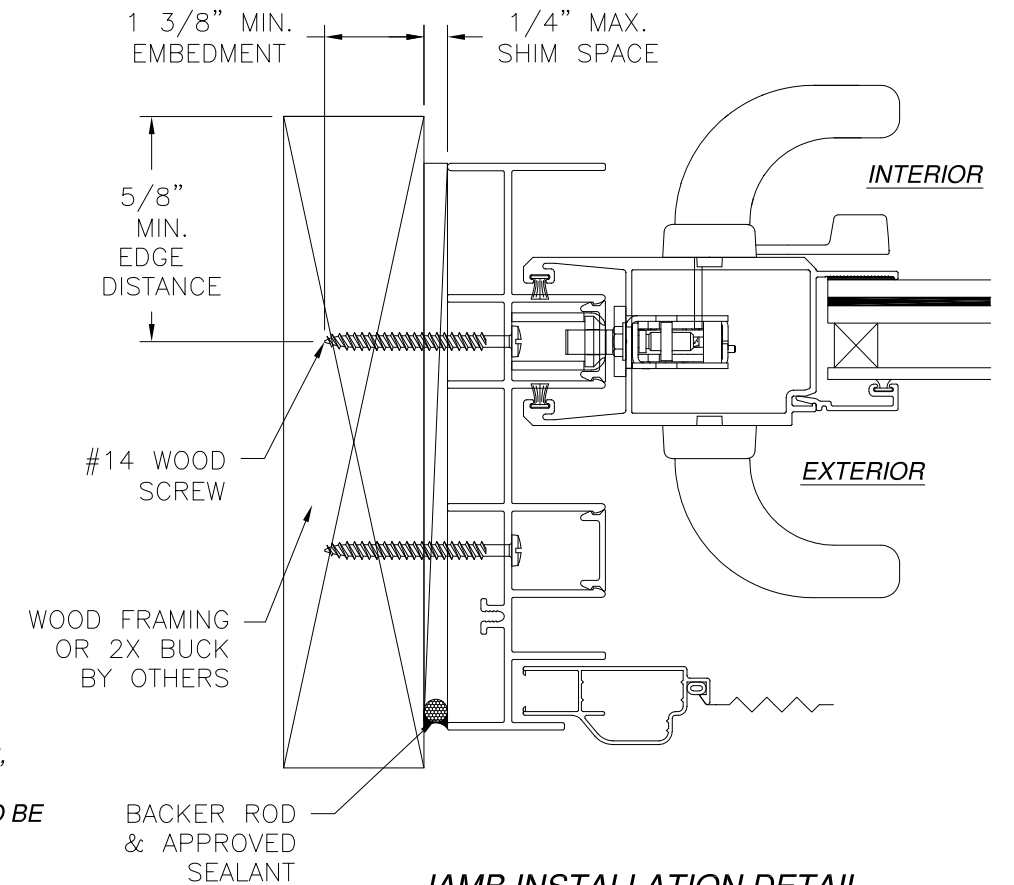
NOTES:

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

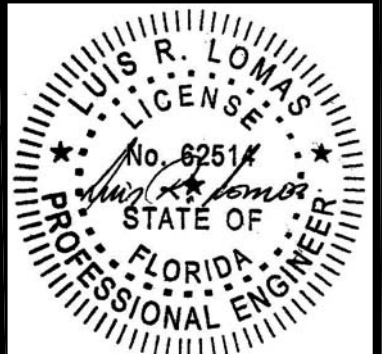
SIGNED: 07/27/2023

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

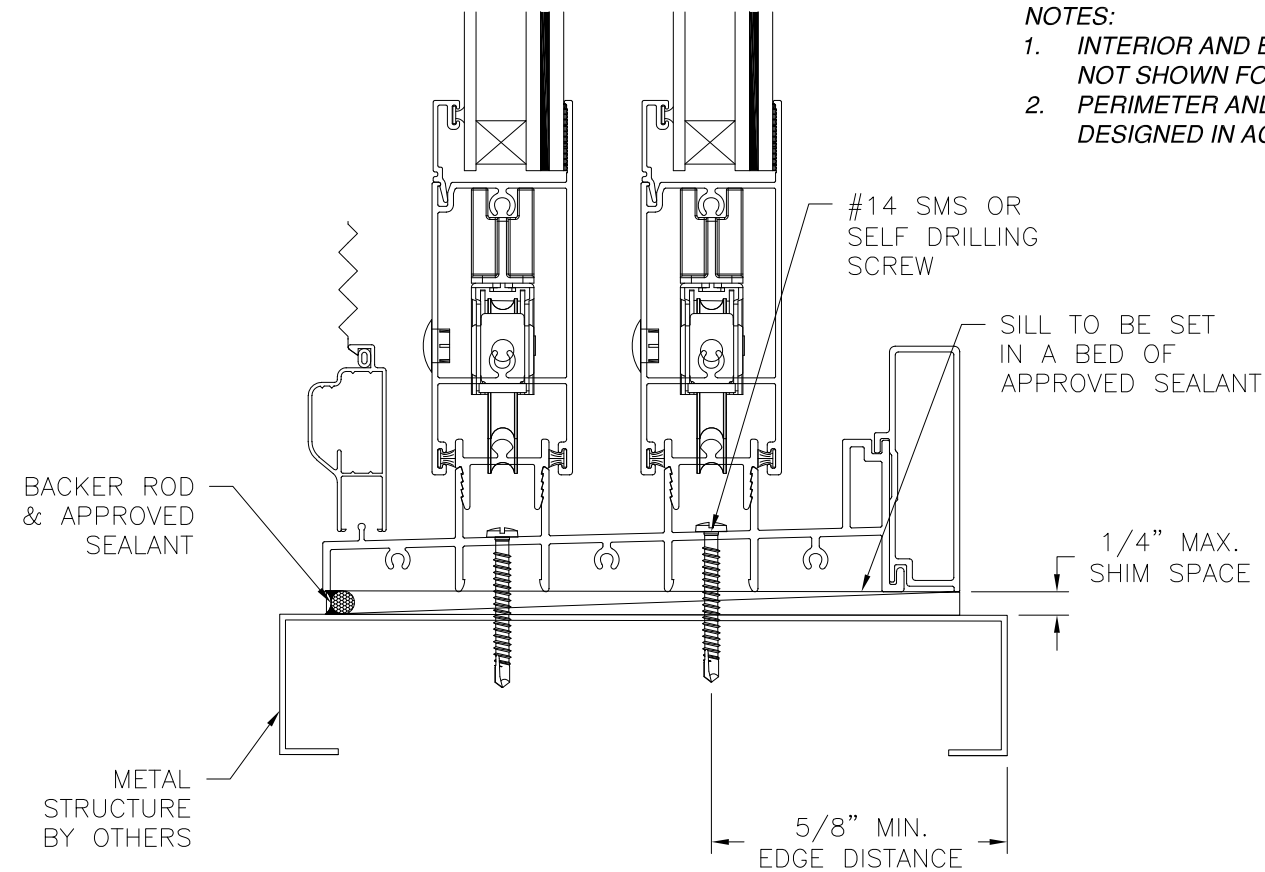
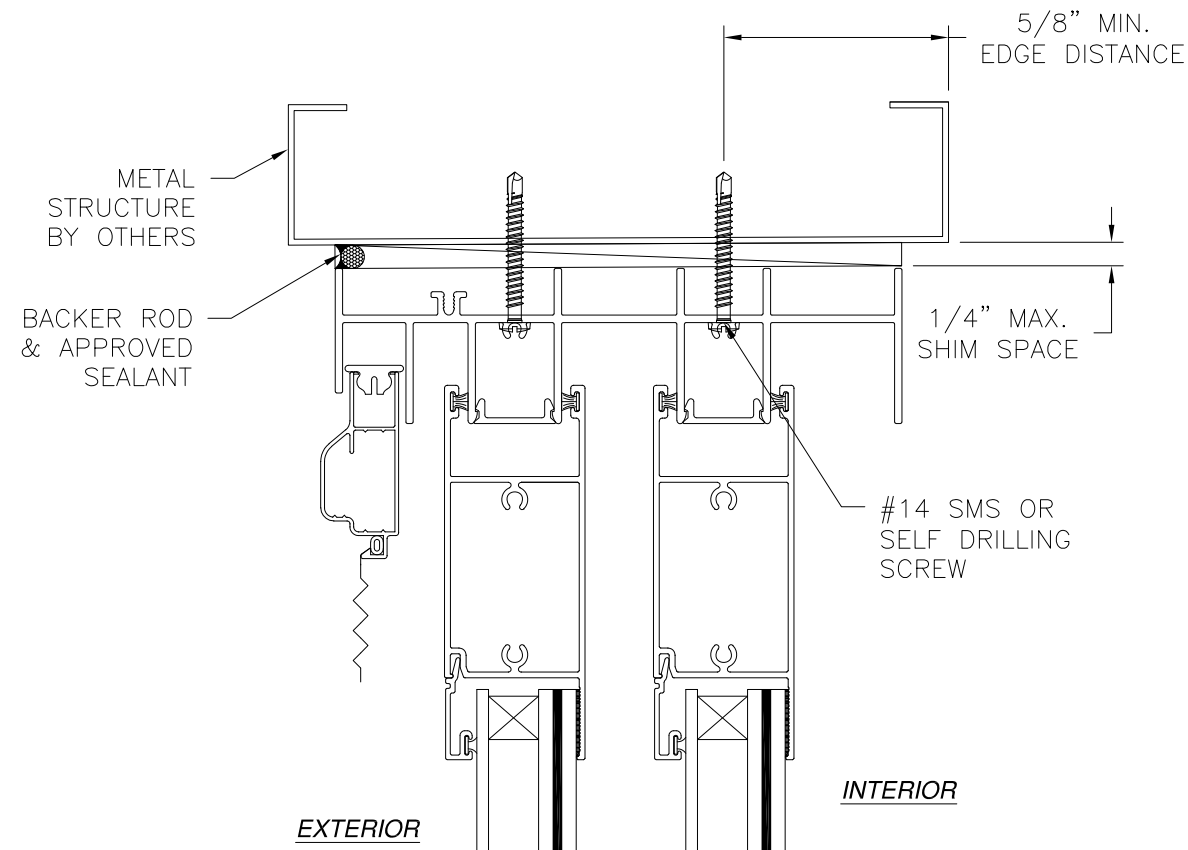
SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
2 TRACK FINLESS INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 7 OF 28

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



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

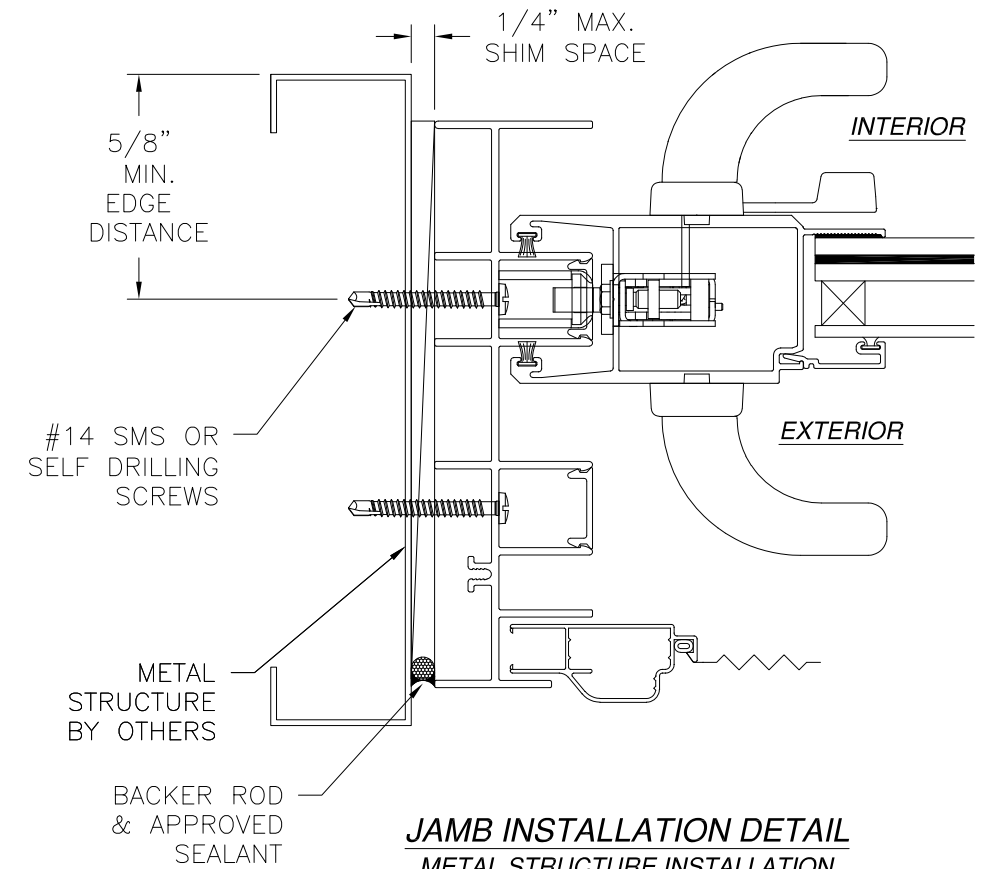


VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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

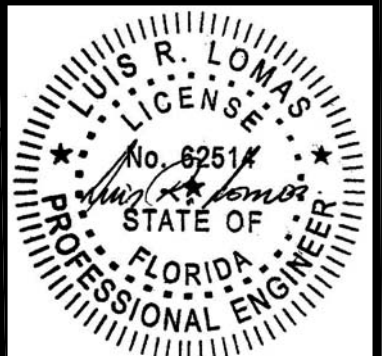
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



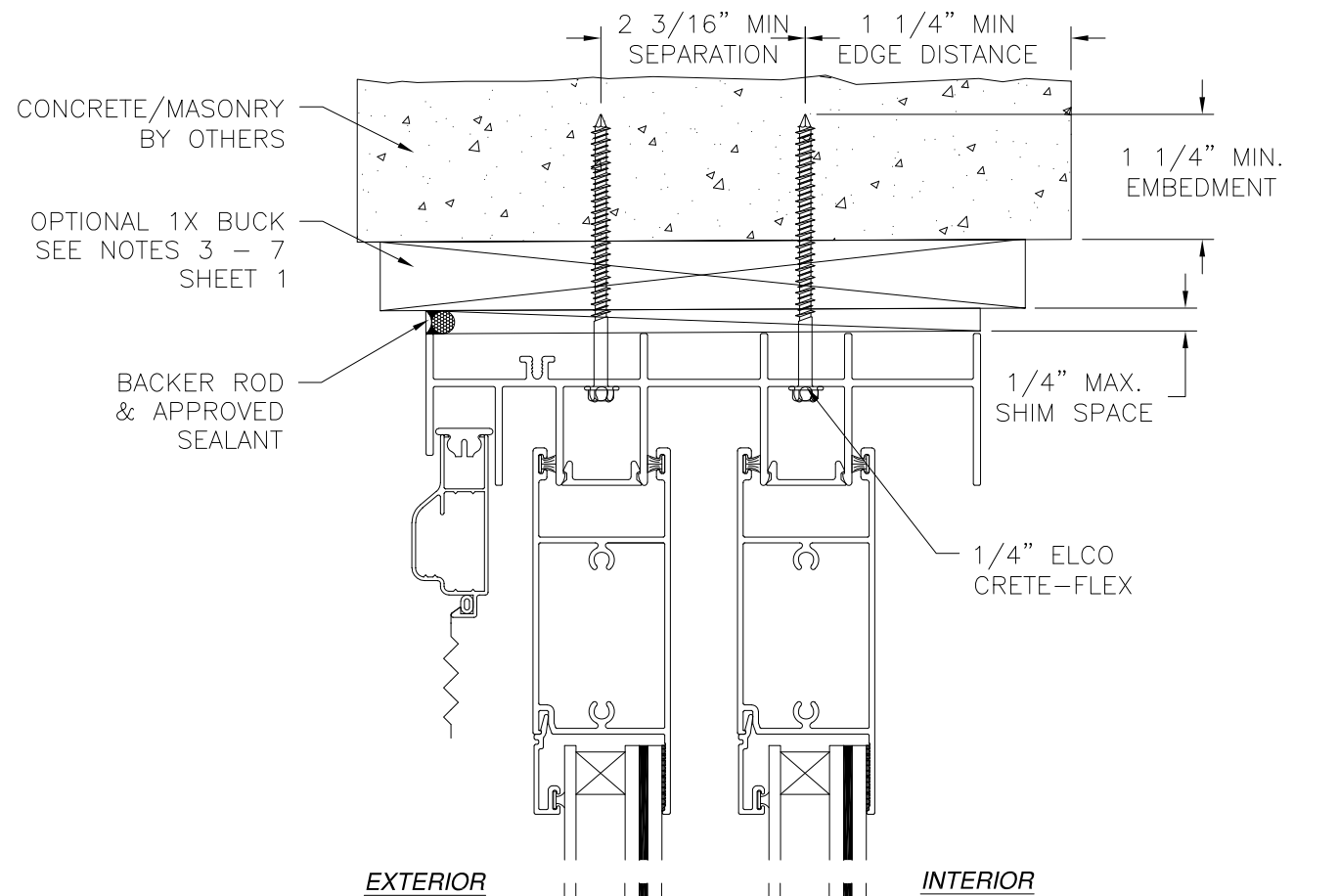
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

SIGNED: 07/27/2023

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 2 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 8 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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



EXTERIOR

INTERIOR

BACKER ROD
& APPROVED
SEALANT

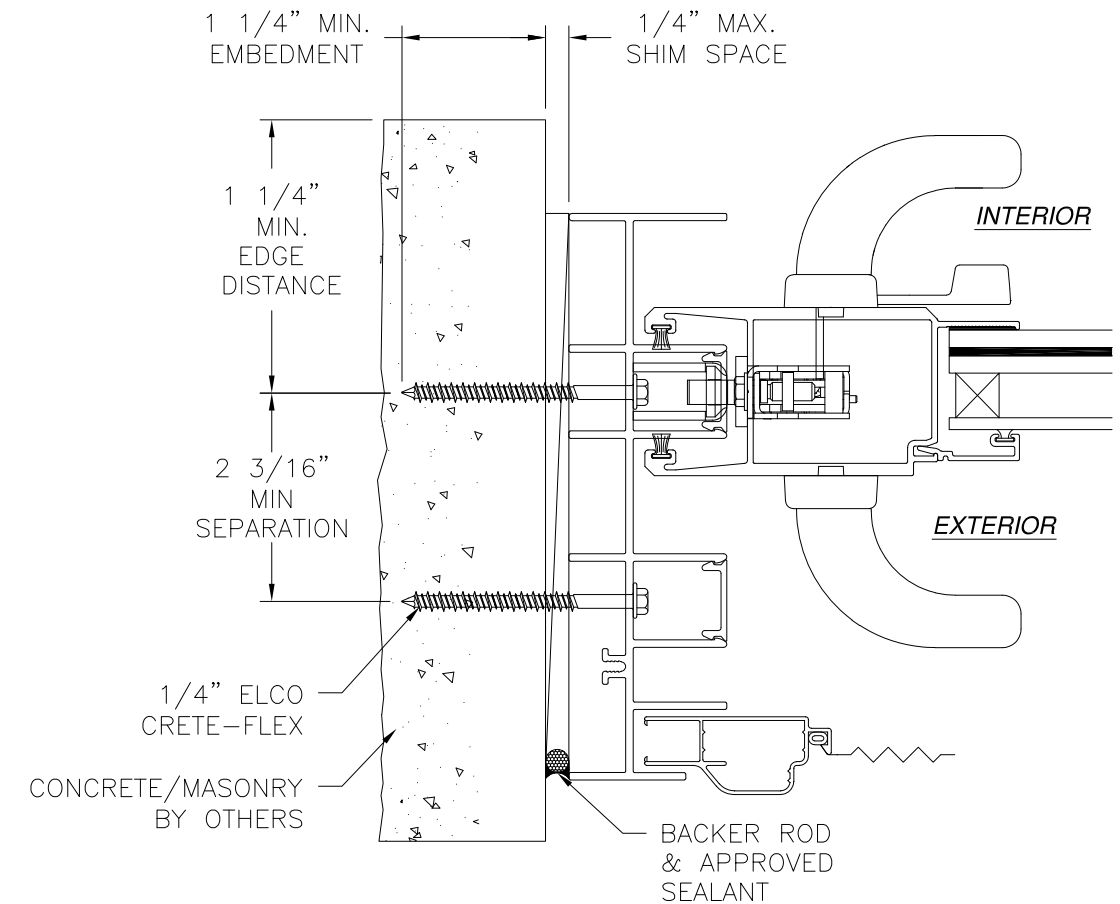
1X BUCK
SEE NOTE 6
SHEET 1

CONCRETE/MASONRY
BY OTHERS

VERTICAL CROSS SECTION

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



JAMB INSTALLATION DETAIL

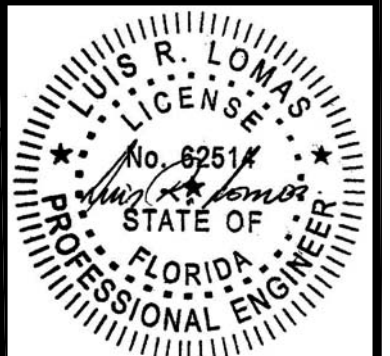
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

NOTES:

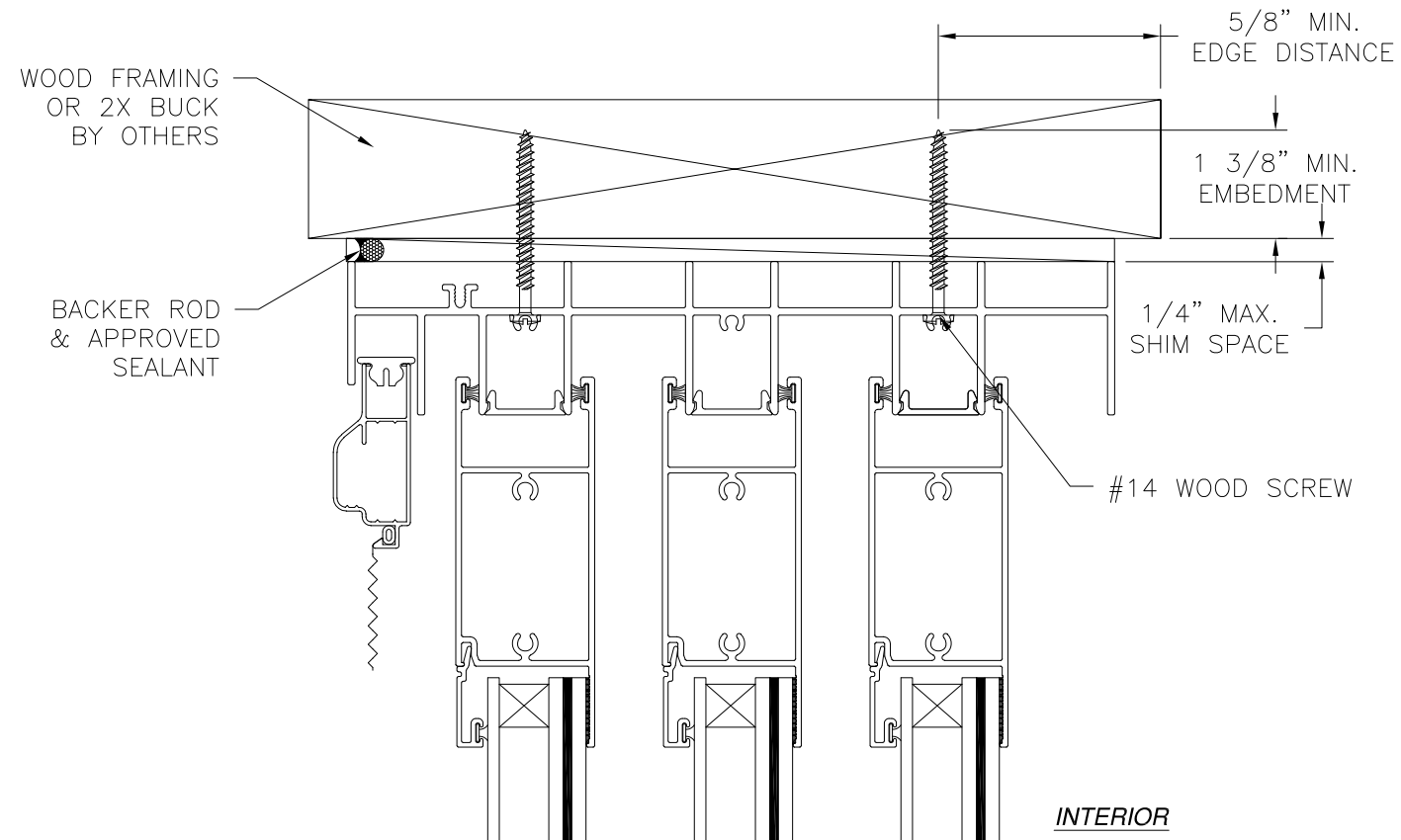
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 07/27/2023

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 2 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 9 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
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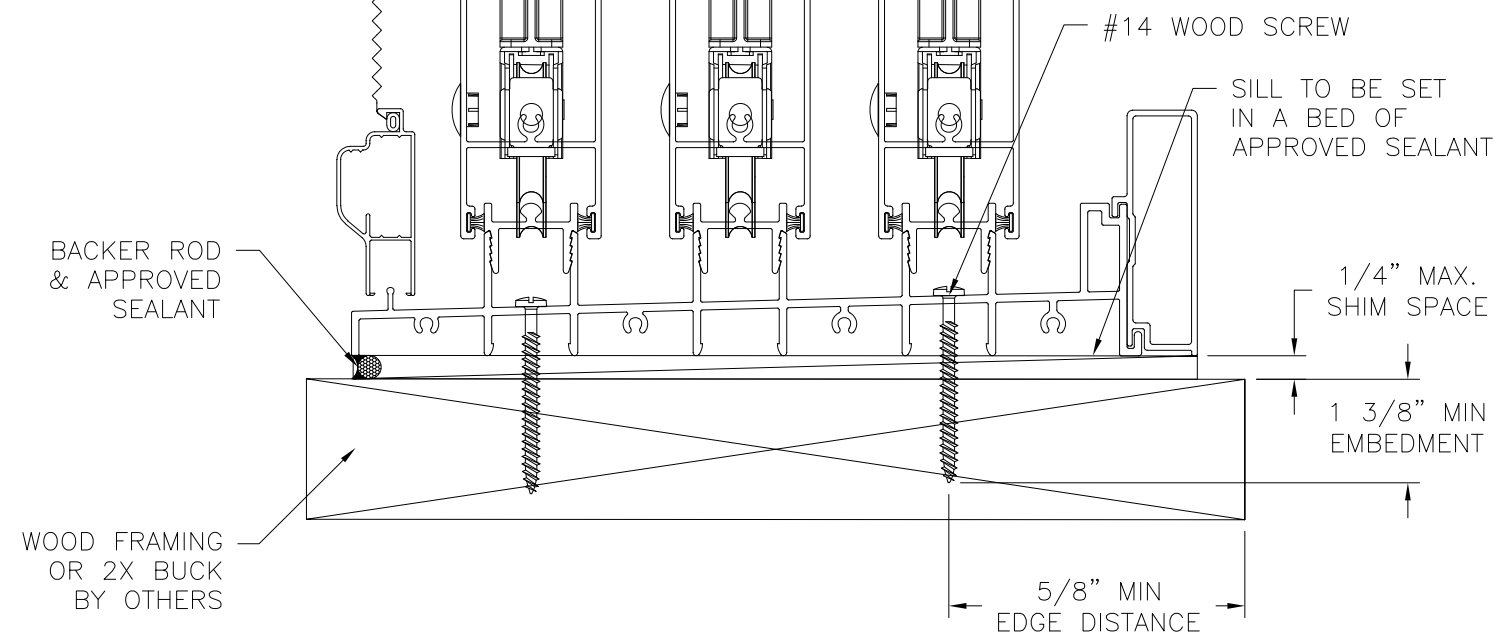


EXTERIOR

INTERIOR

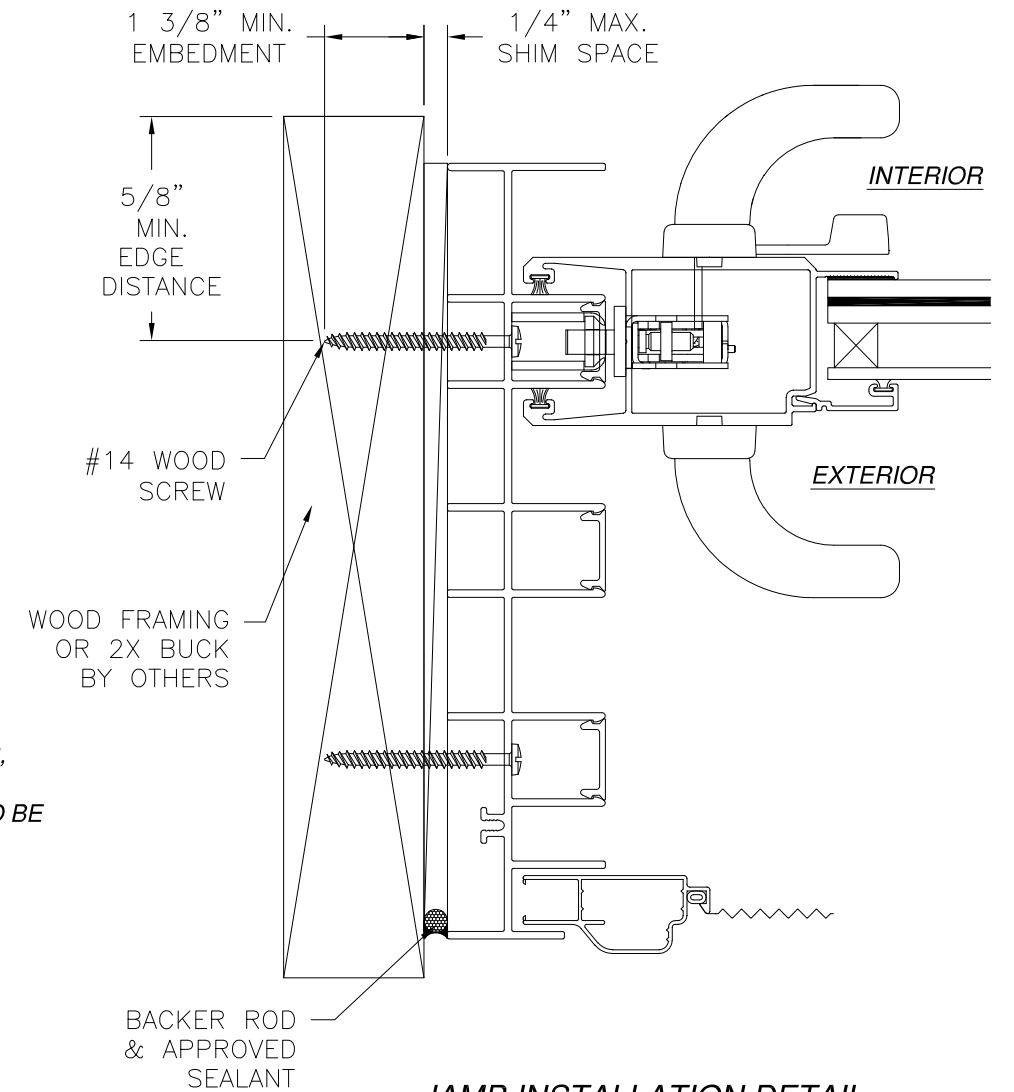
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

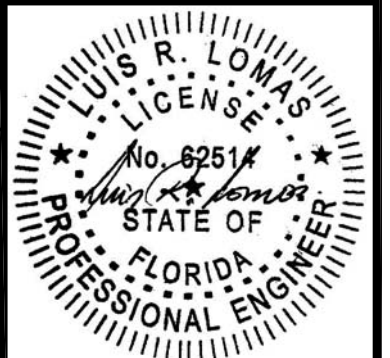
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



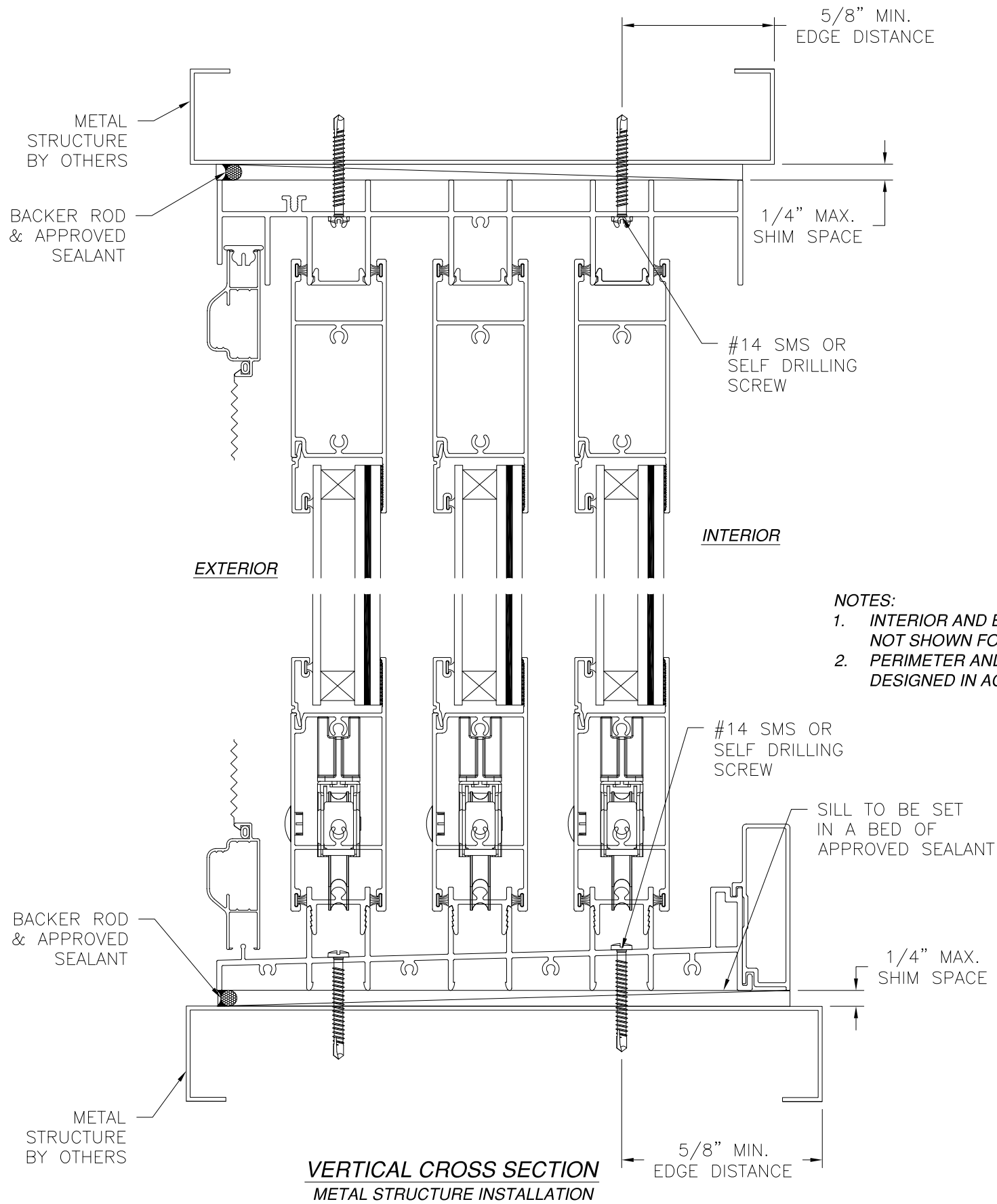
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 07/27/2023

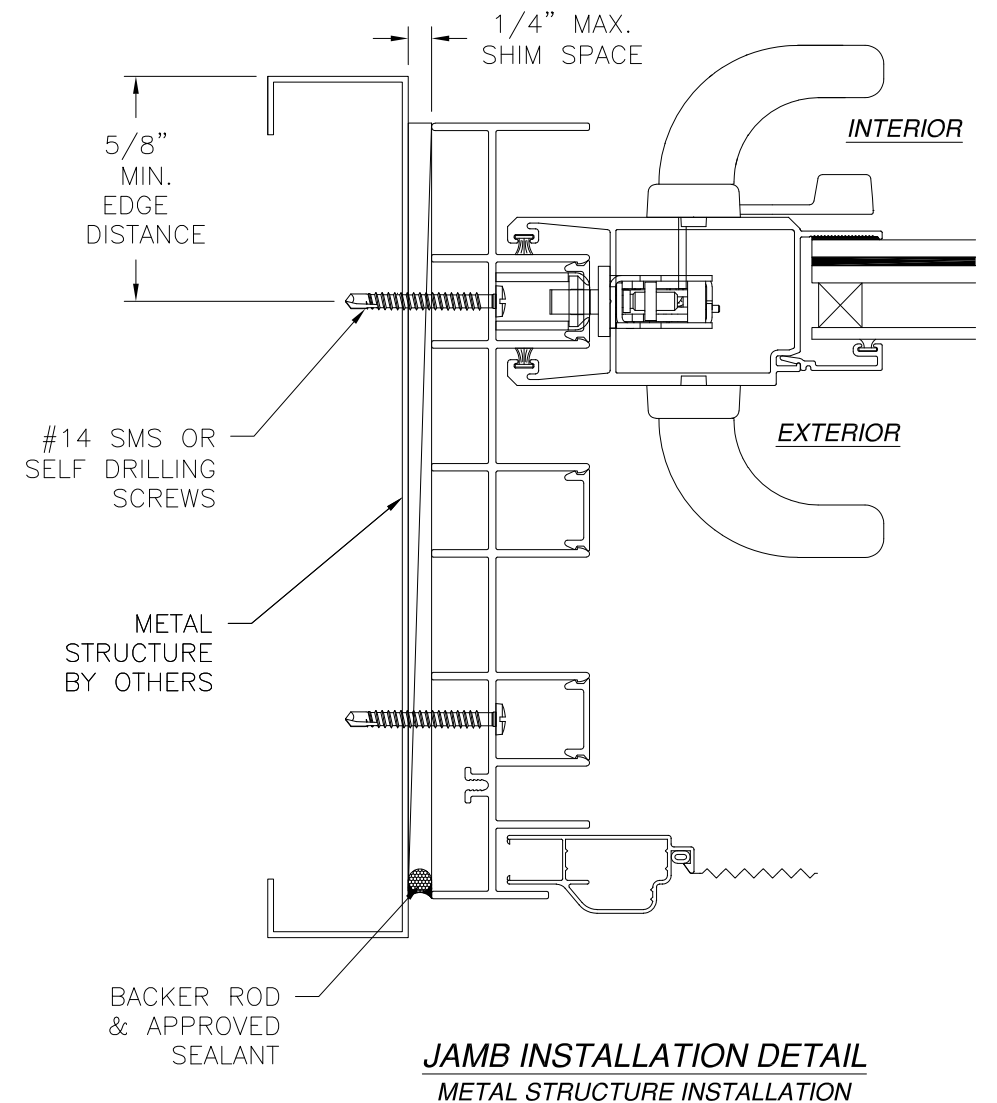
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 3 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 10 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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



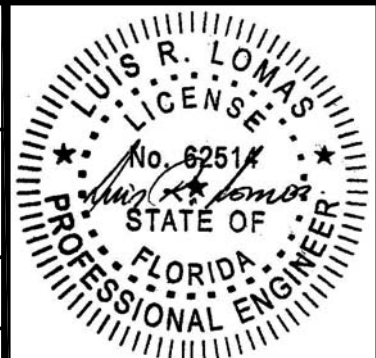
- NOTES:
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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



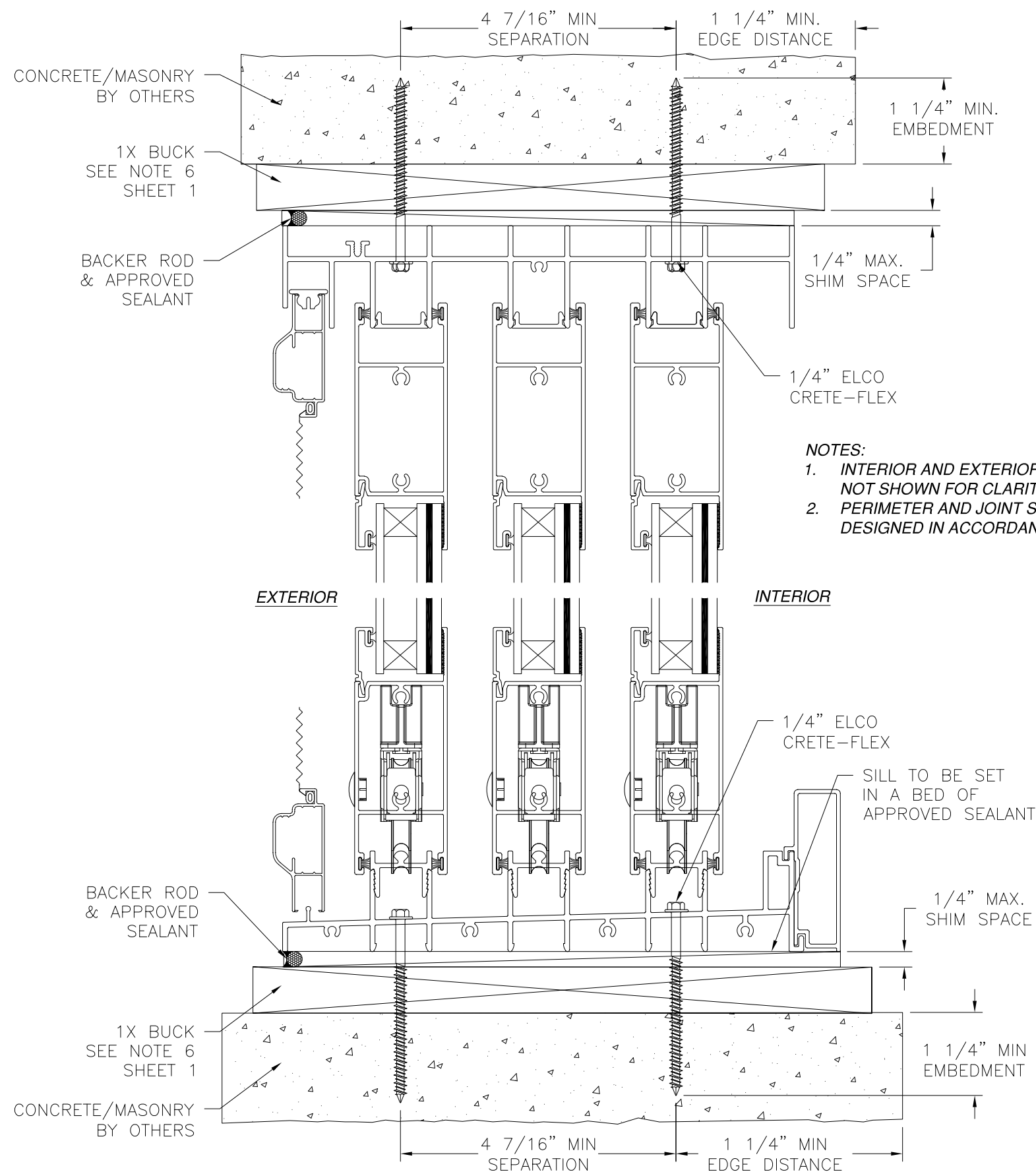
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A	REVISED CONFIGURATIONS	07/13/2023	R.L.

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 3 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 11 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 07/27/2023

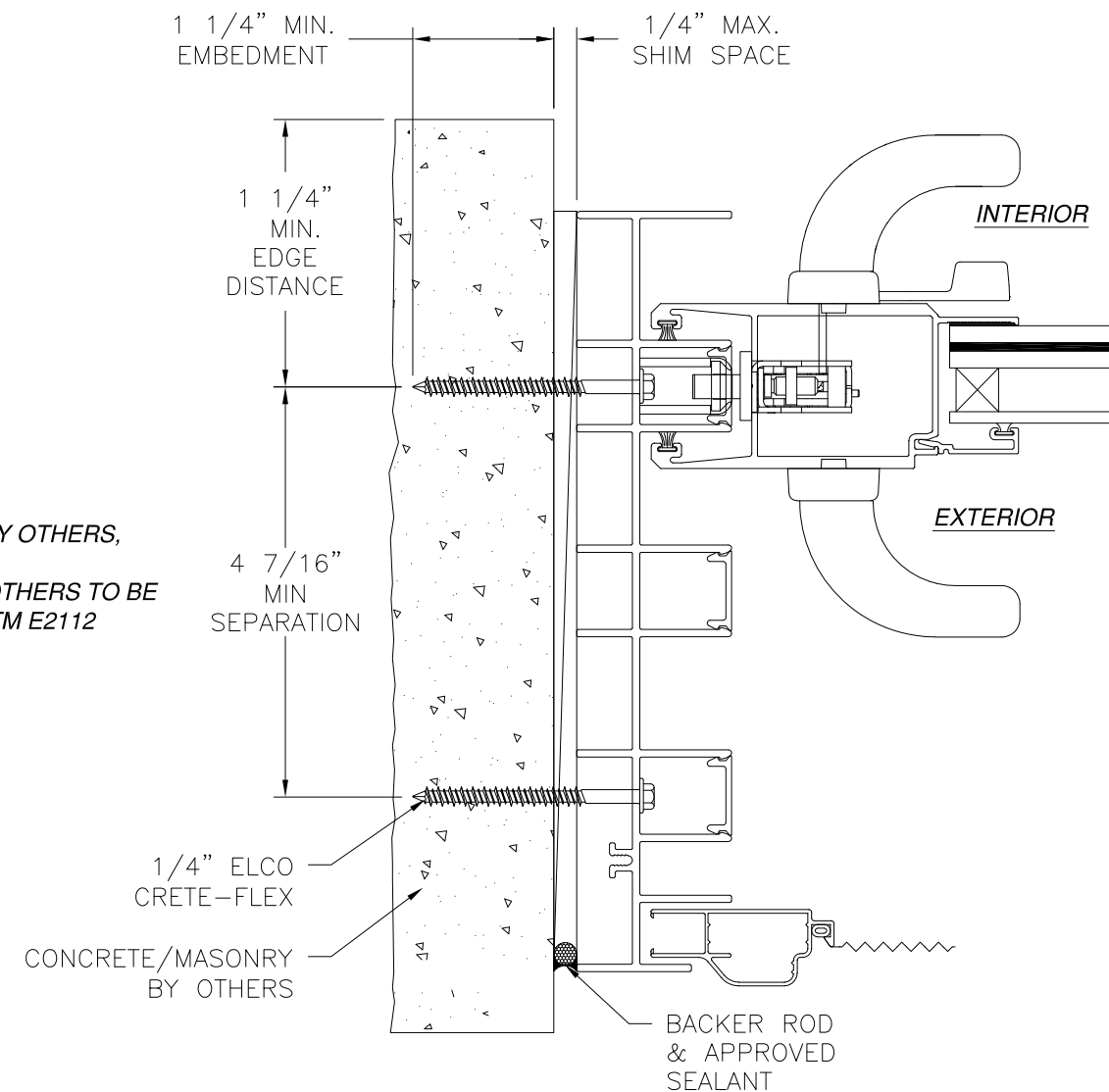


Luis R. Lomas P.E.
FL No.: 62514



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

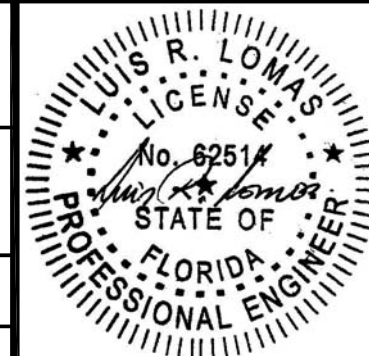
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



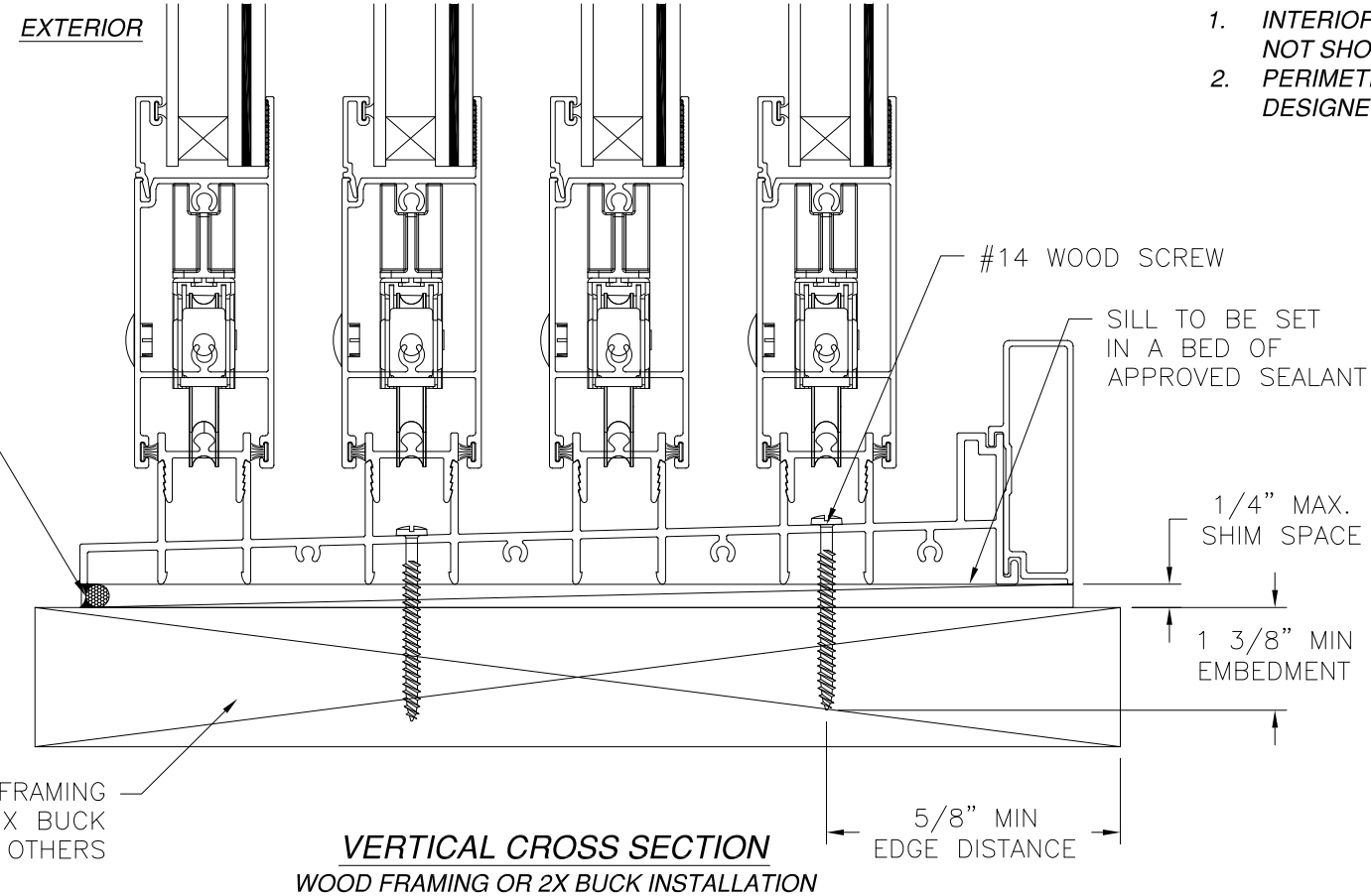
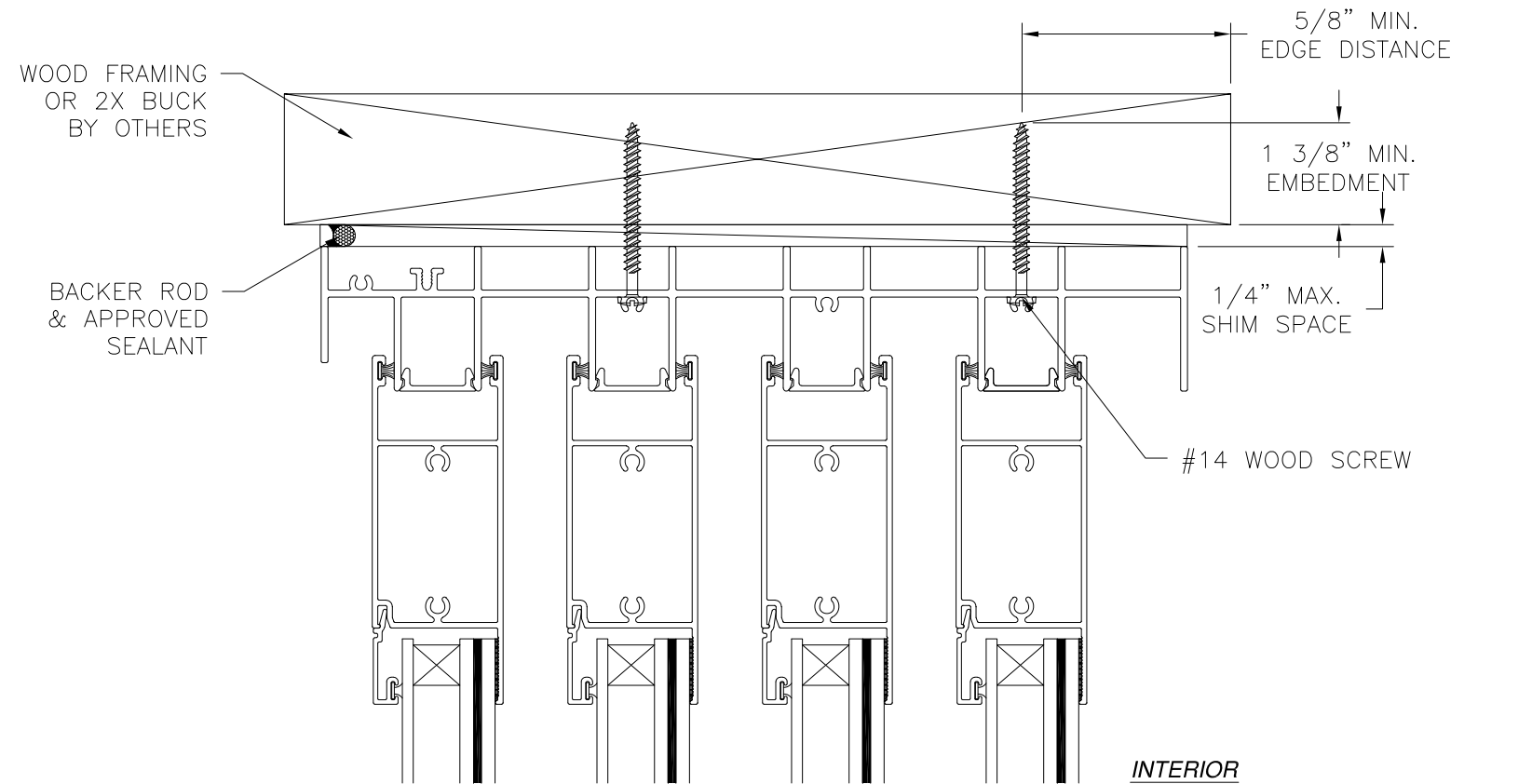
JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

SIGNED: 07/27/2023

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 3 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 12 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



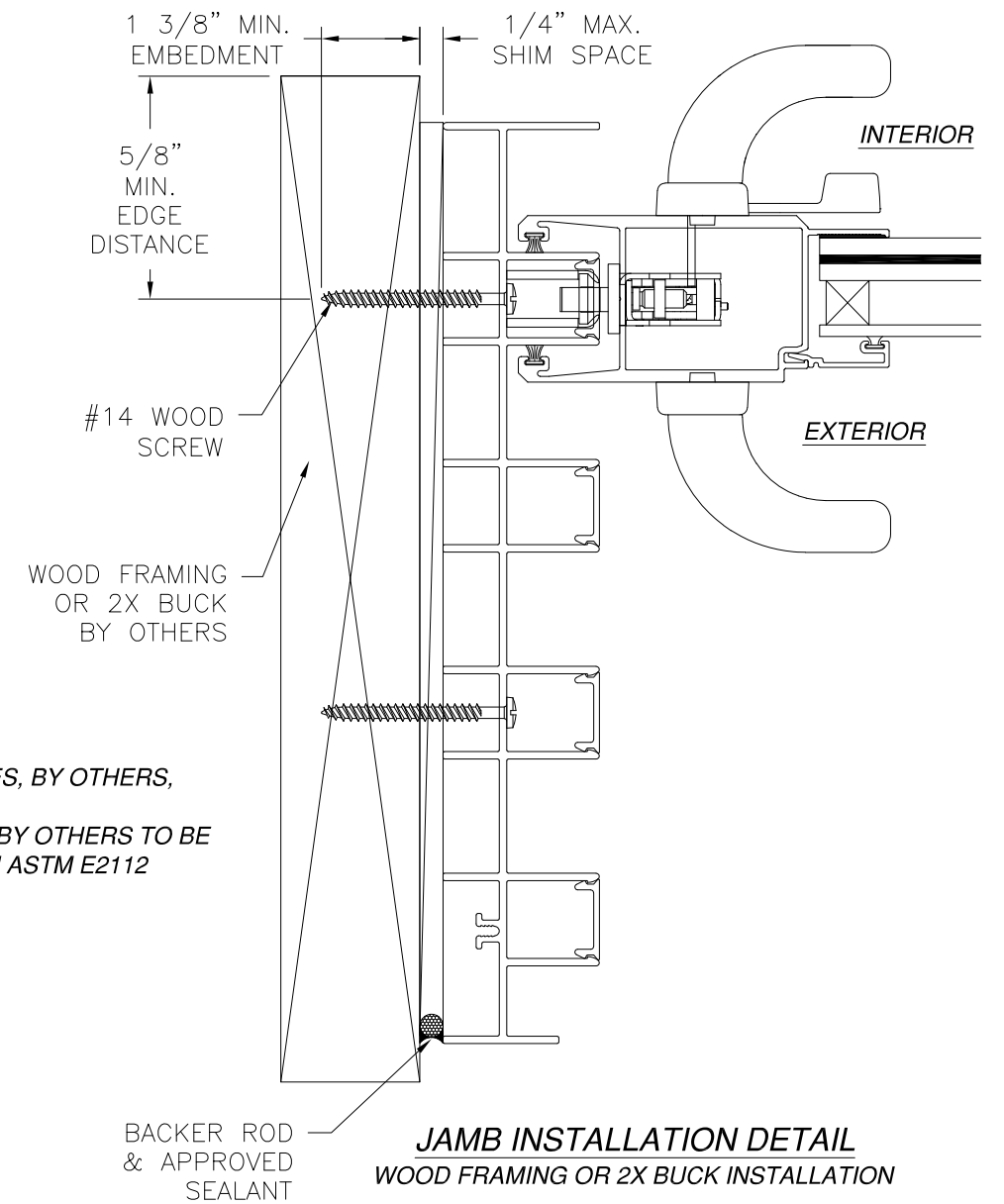
Luis R. Lomas P.E.
 FL No.: 62514



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

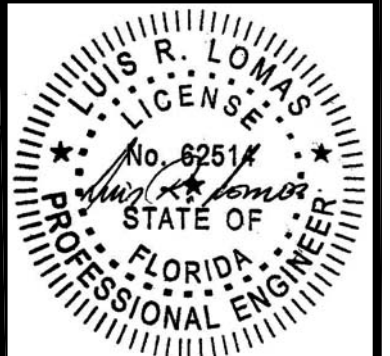
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



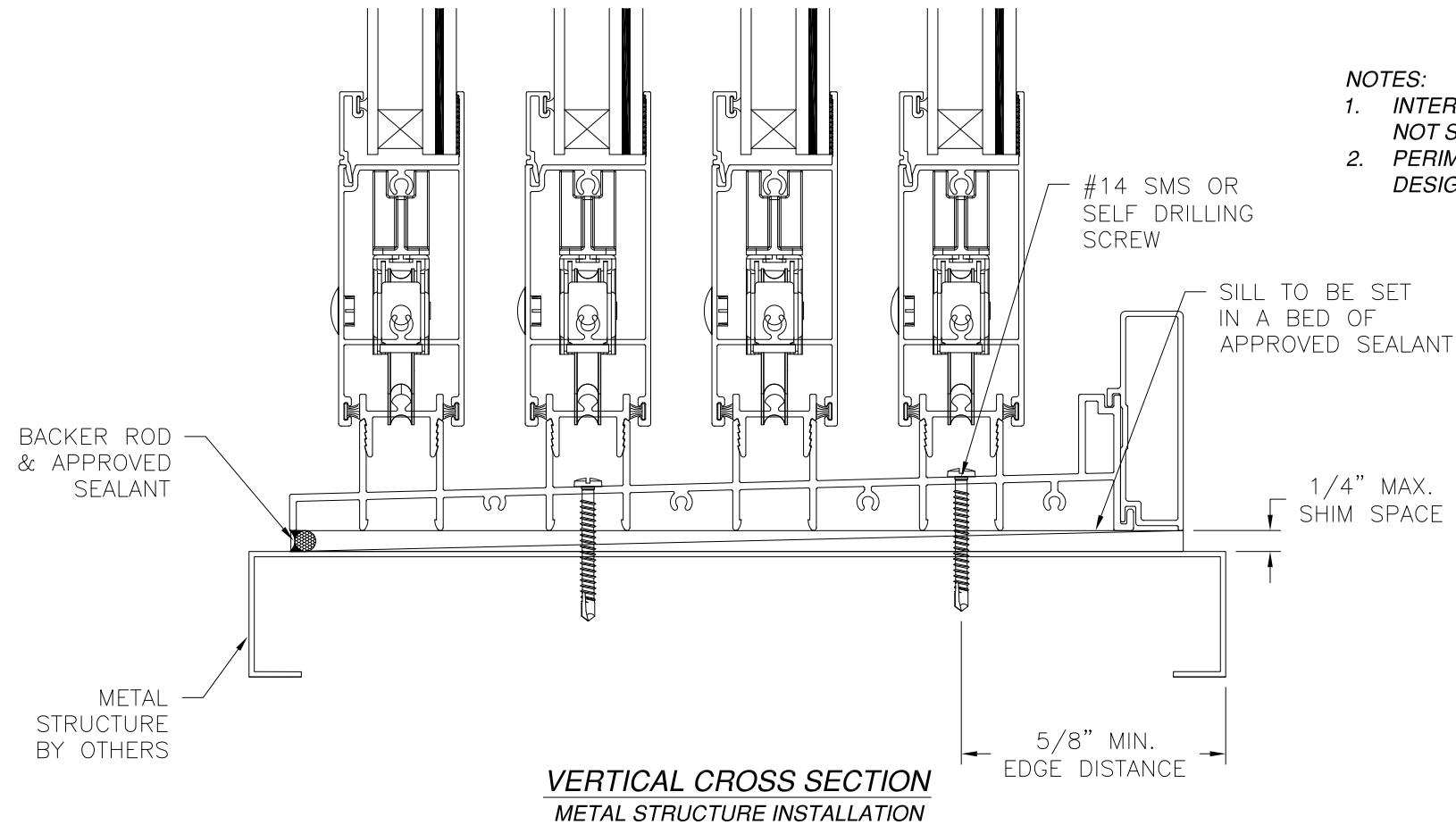
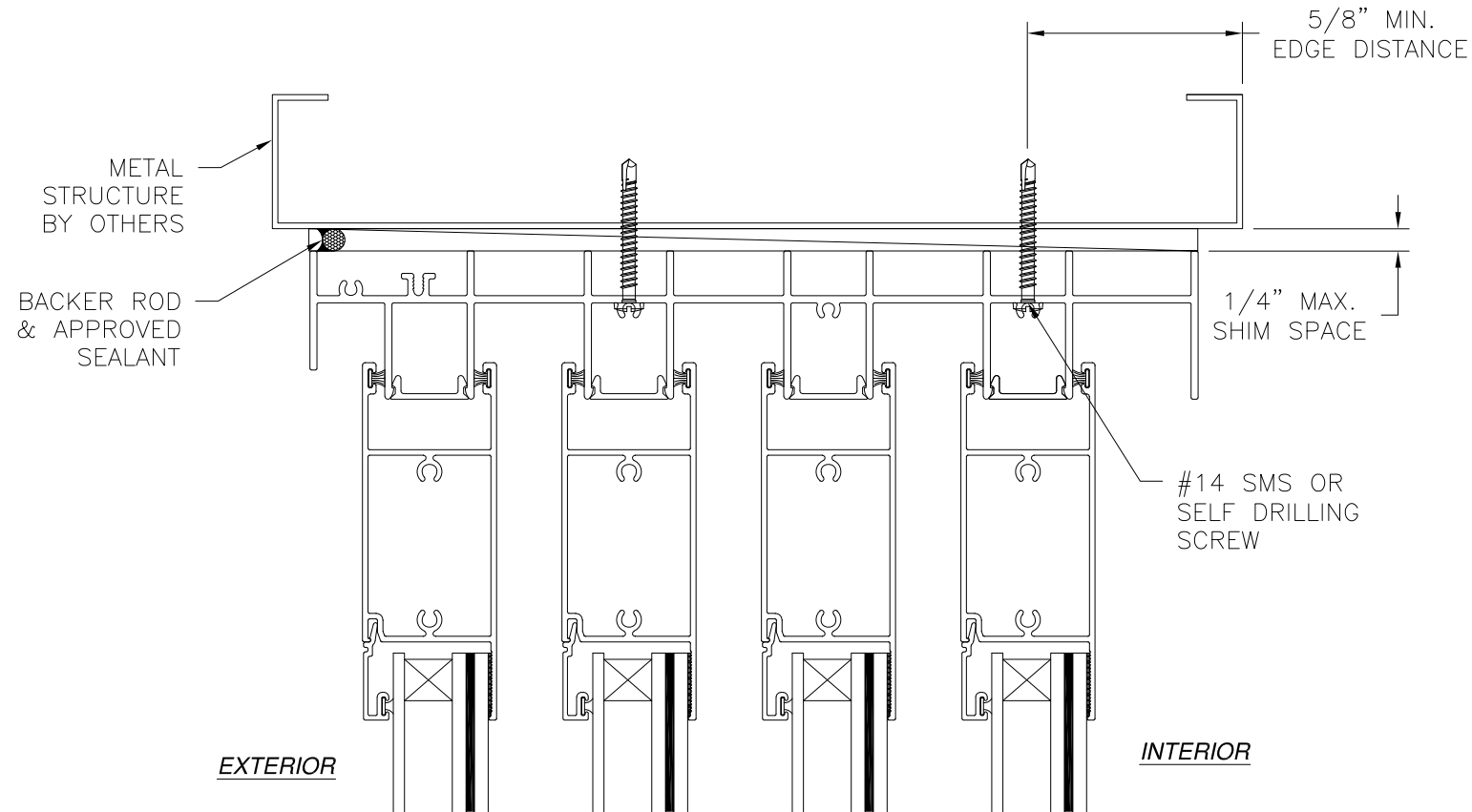
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 07/27/2023

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 4 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 13 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
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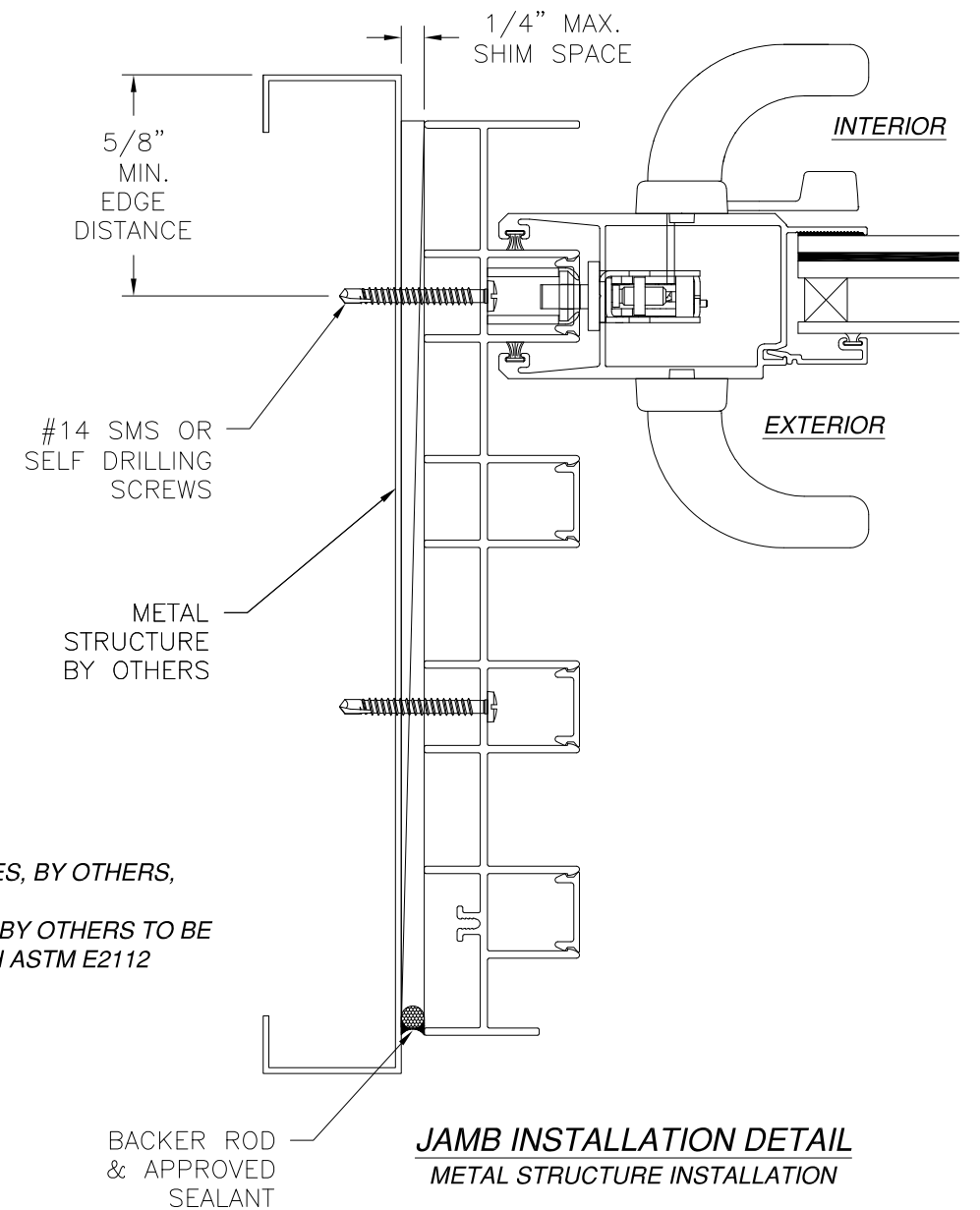


VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

NOTES:

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

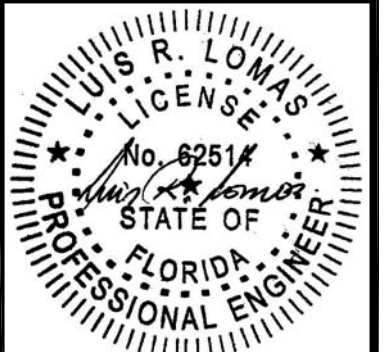
SIGNED: 07/27/2023

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

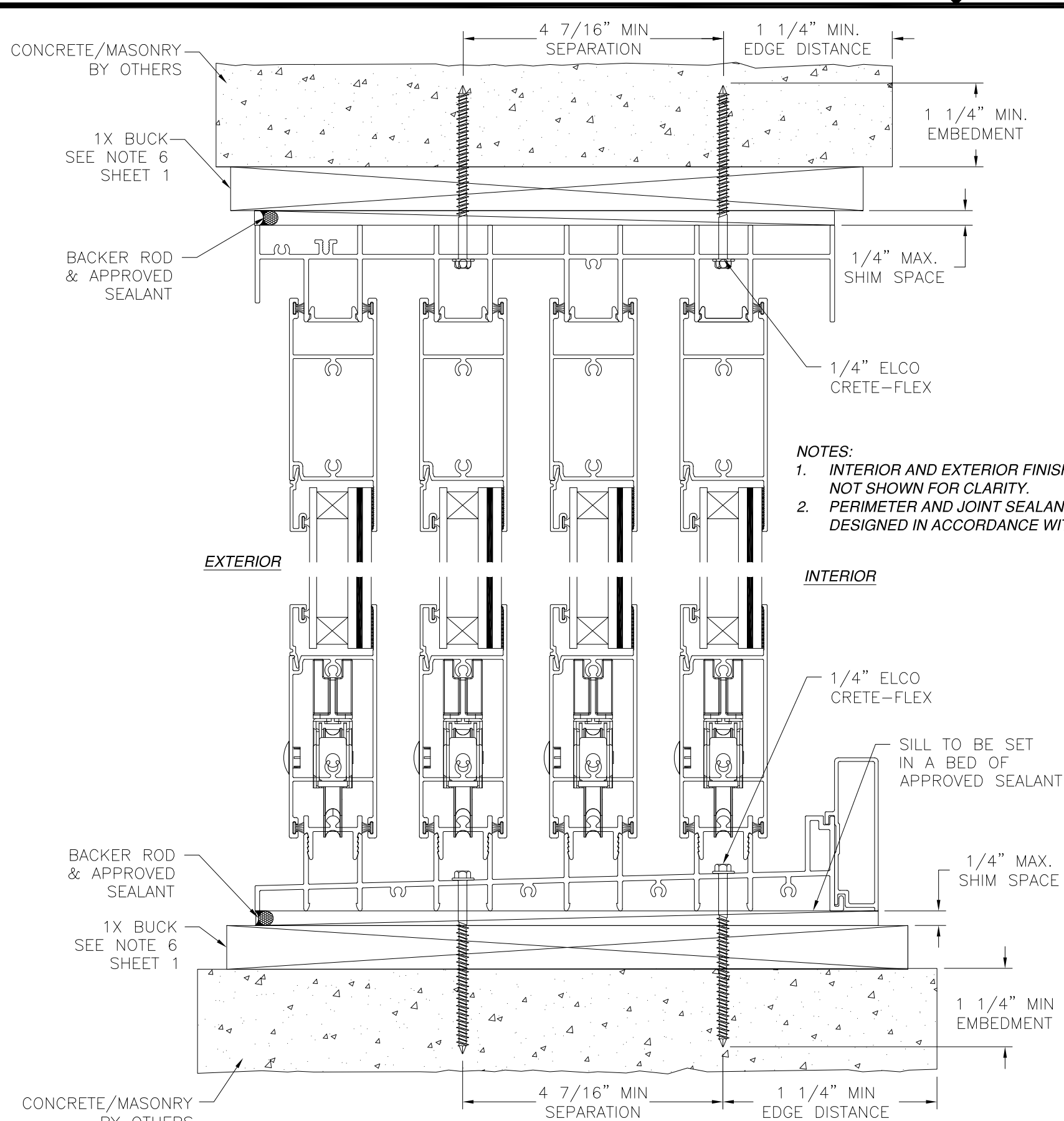
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REINFORCED – LARGE AND SMALL MISSILE IMPACT
4 TRACK FINLESS INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 14 OF 28

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



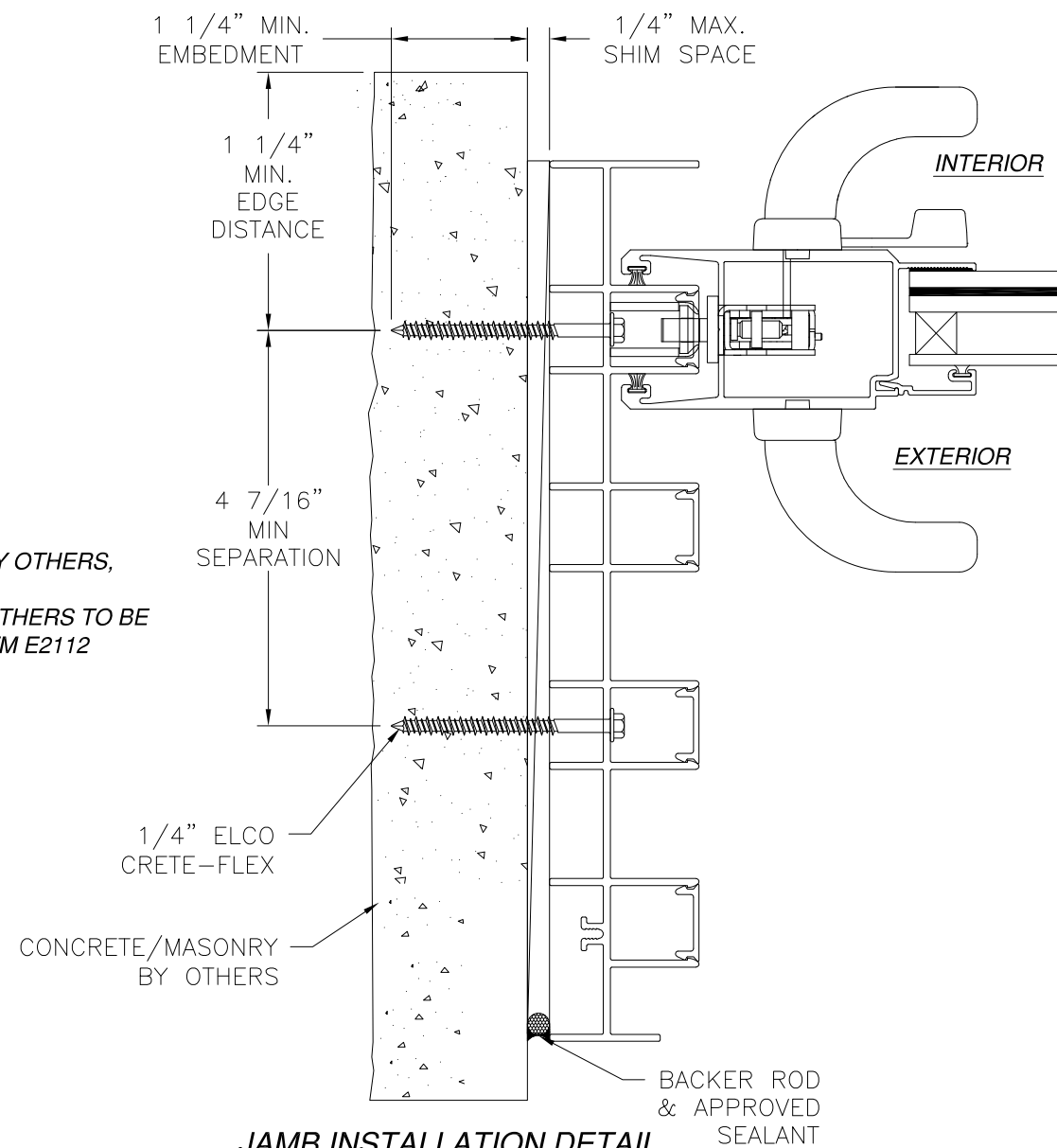
Luis R. Lomas P.E.
FL No.: 62514



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

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

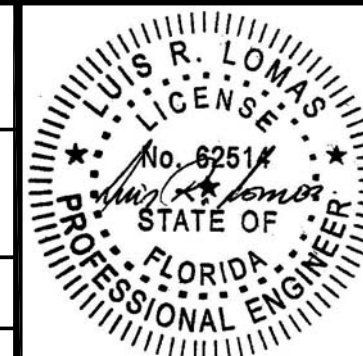
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



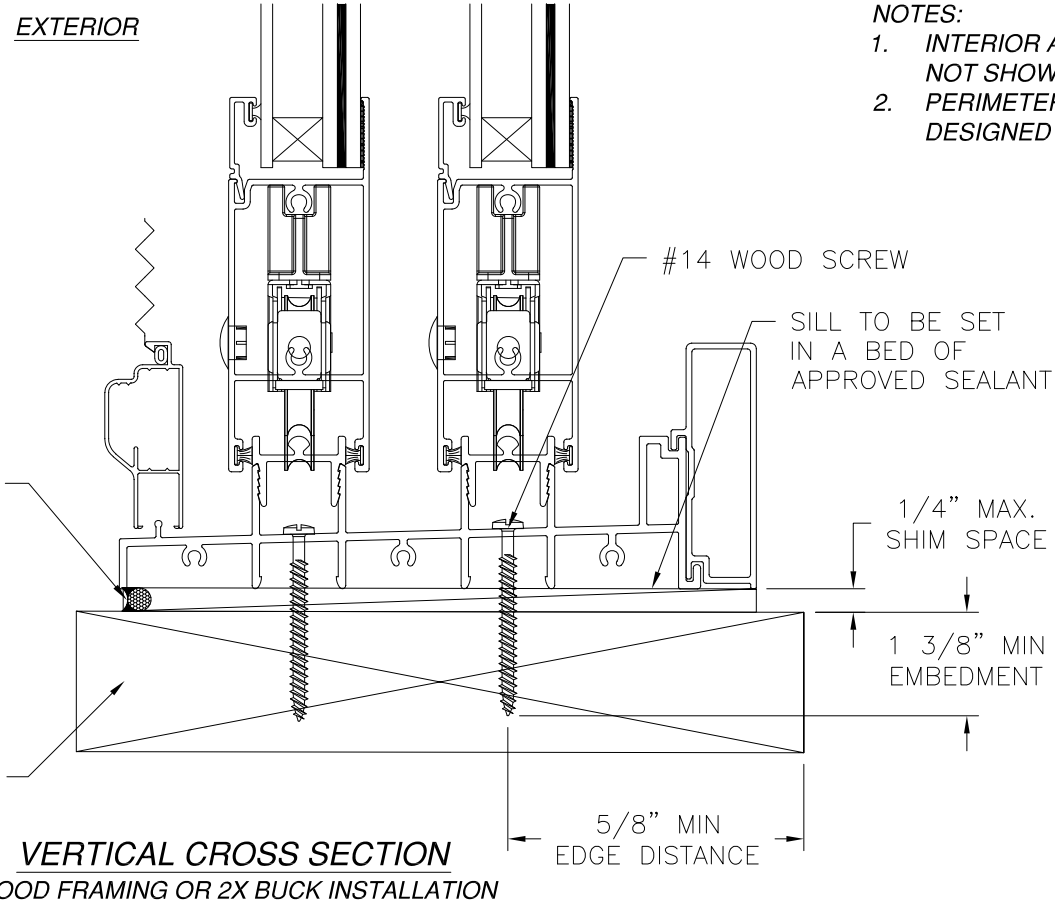
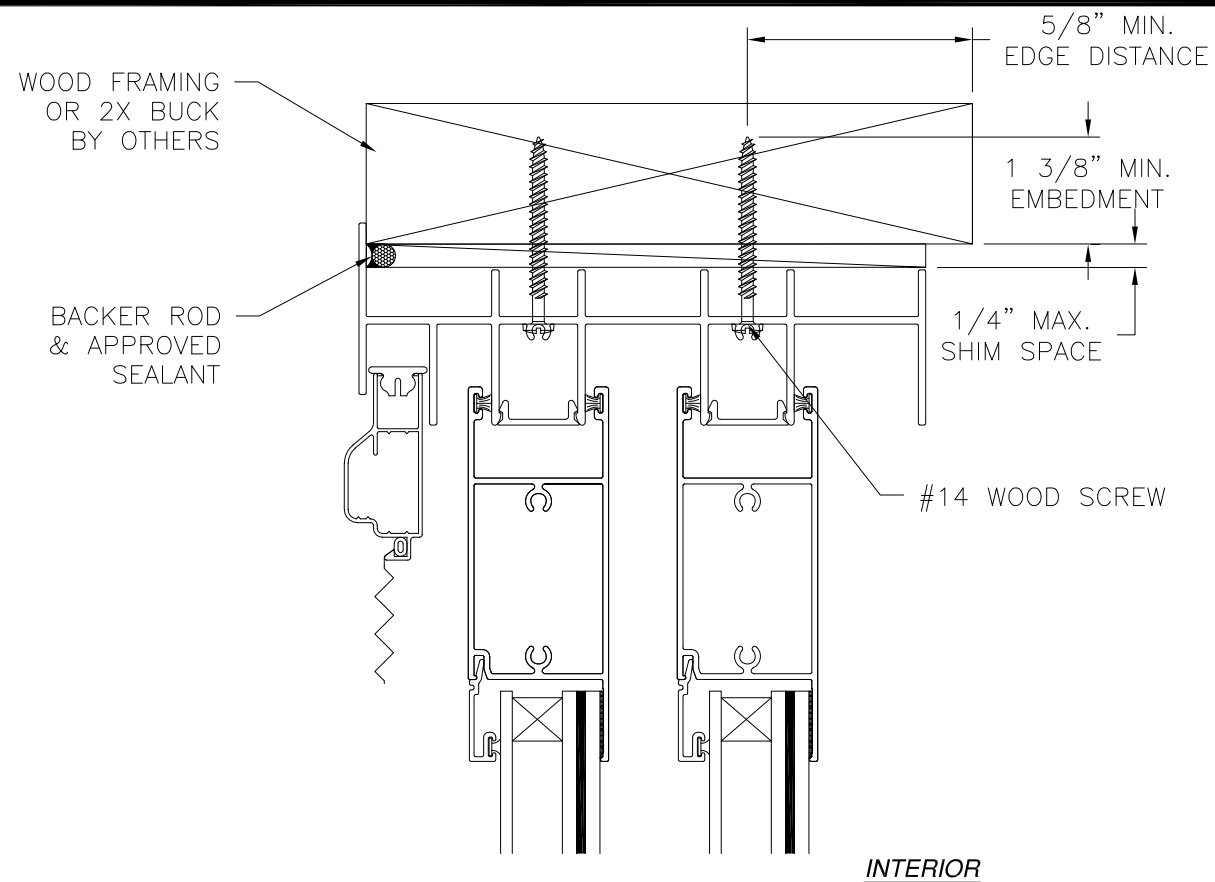
JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

SIGNED: 07/27/2023

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 4 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 15 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

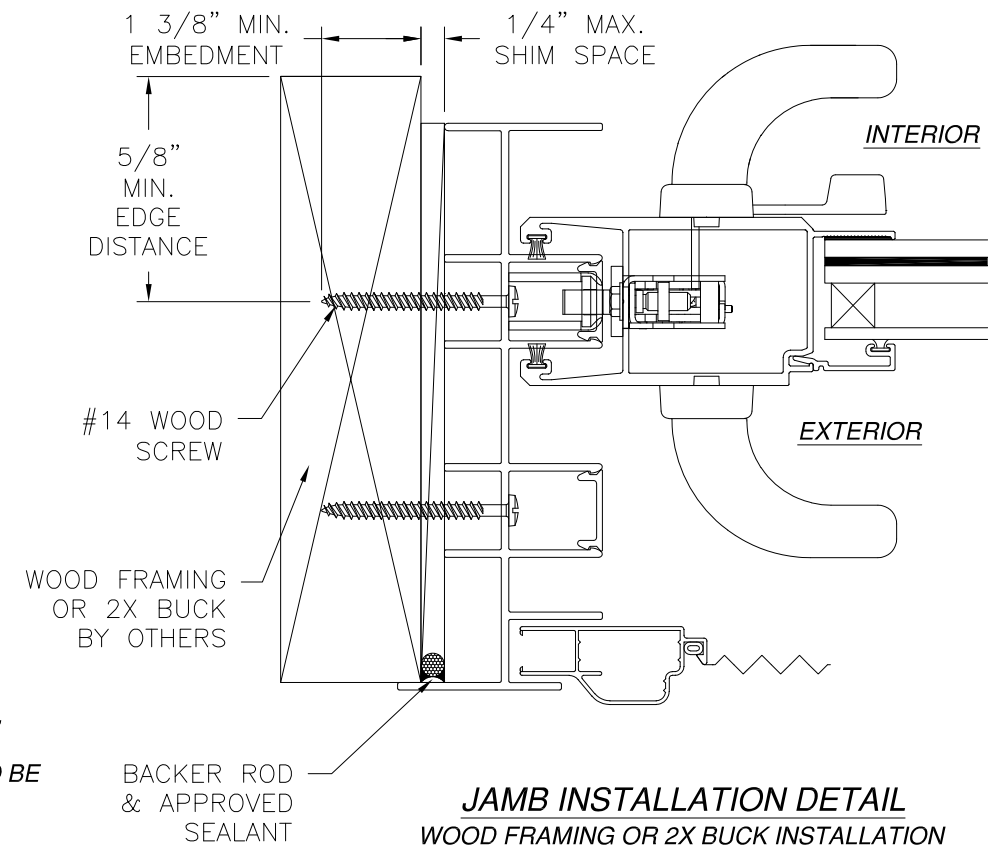


Luis R. Lomas P.E.
 FL No.: 62514



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



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

SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
2 TRACK FLANGE INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03259

REV
A

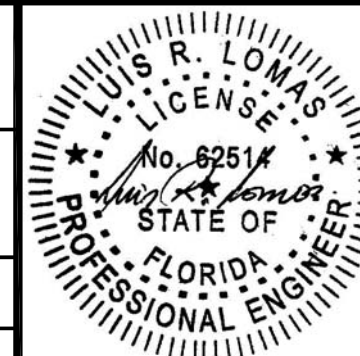
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08/27/18

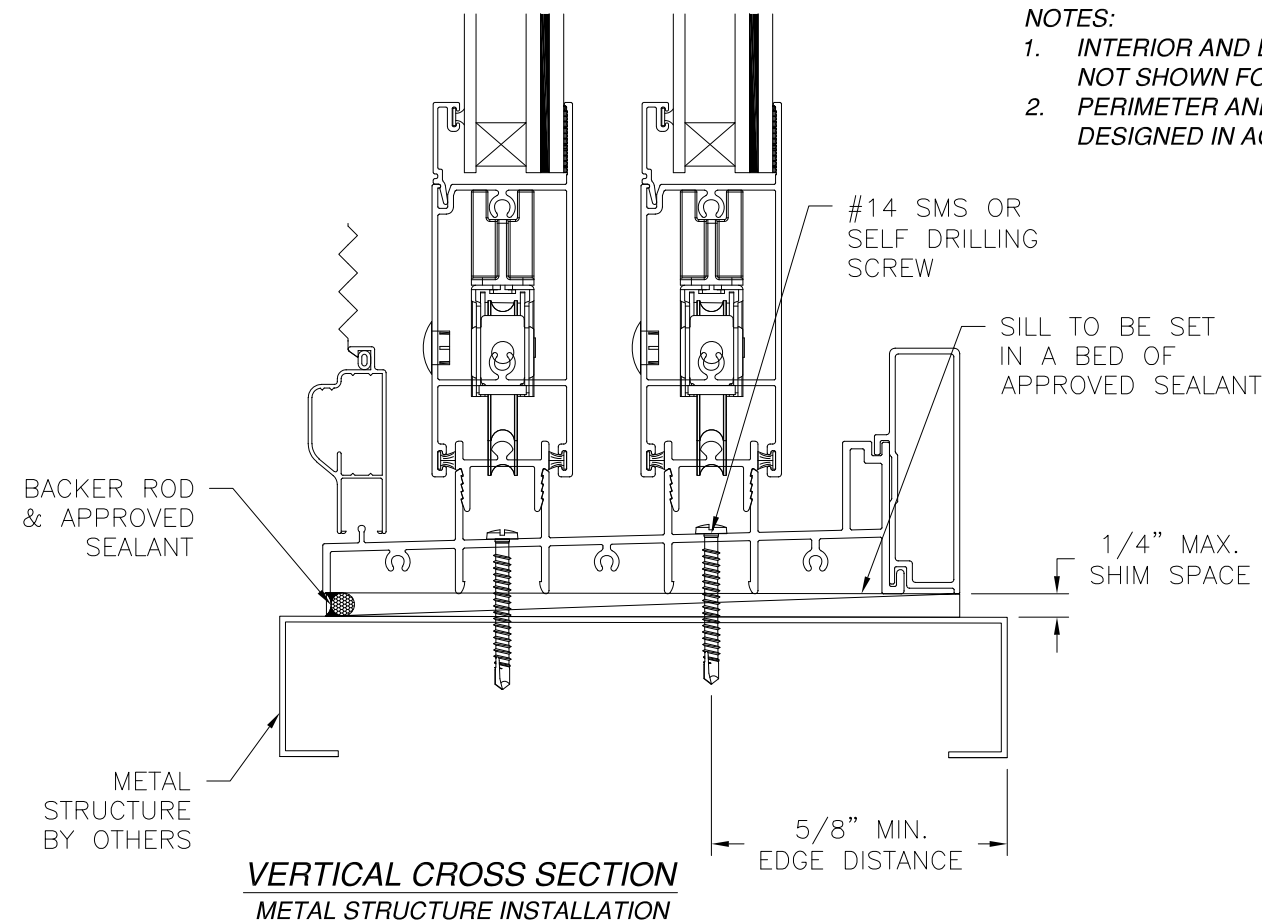
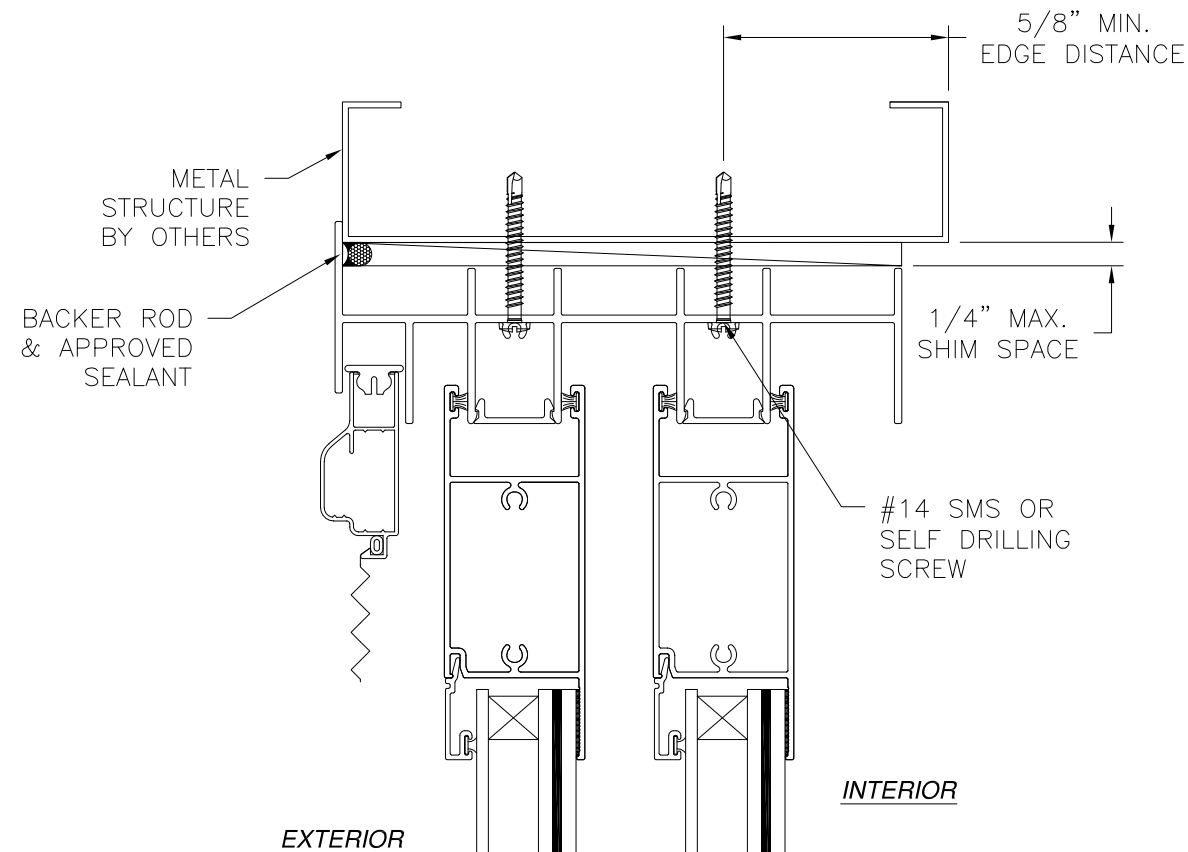
SHEET
16 OF 28

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

SIGNED: 07/27/2023

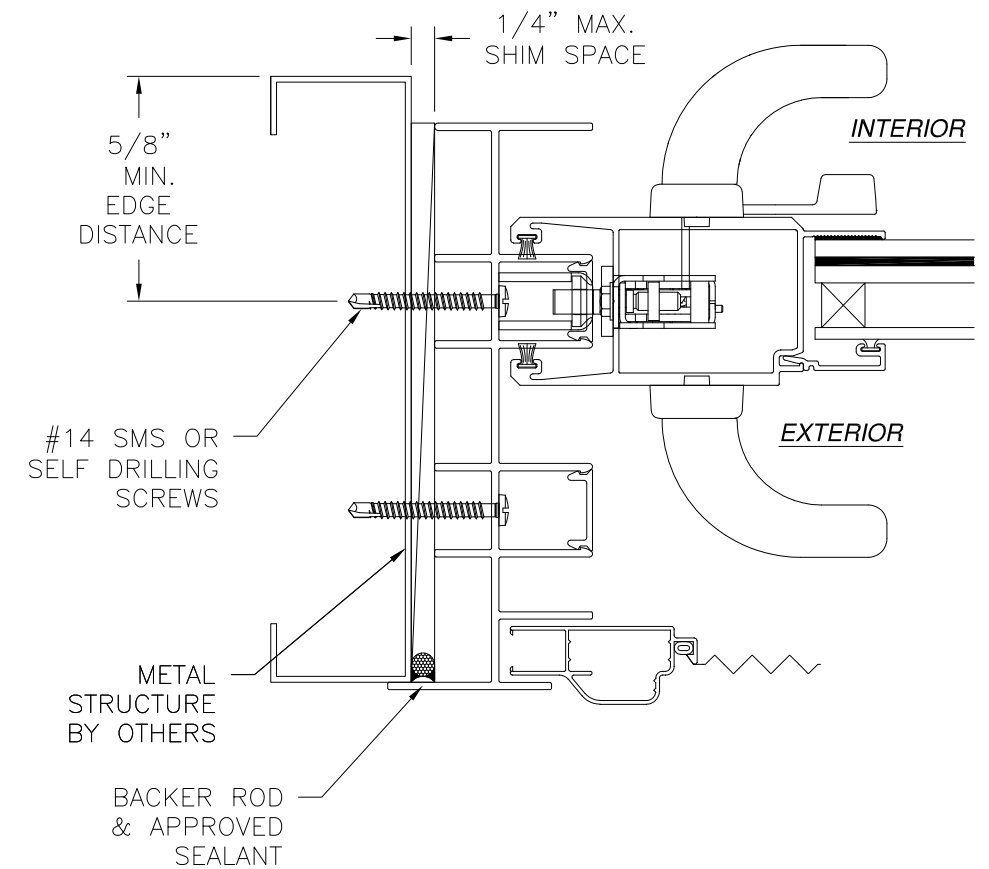


Luis R. Lomas P.E.
FL No.: 62514



- 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

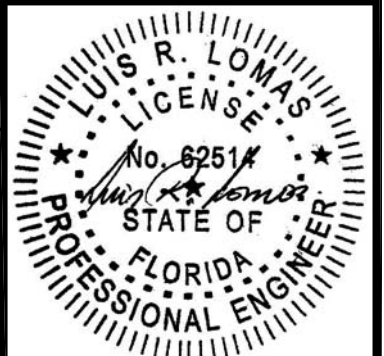
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



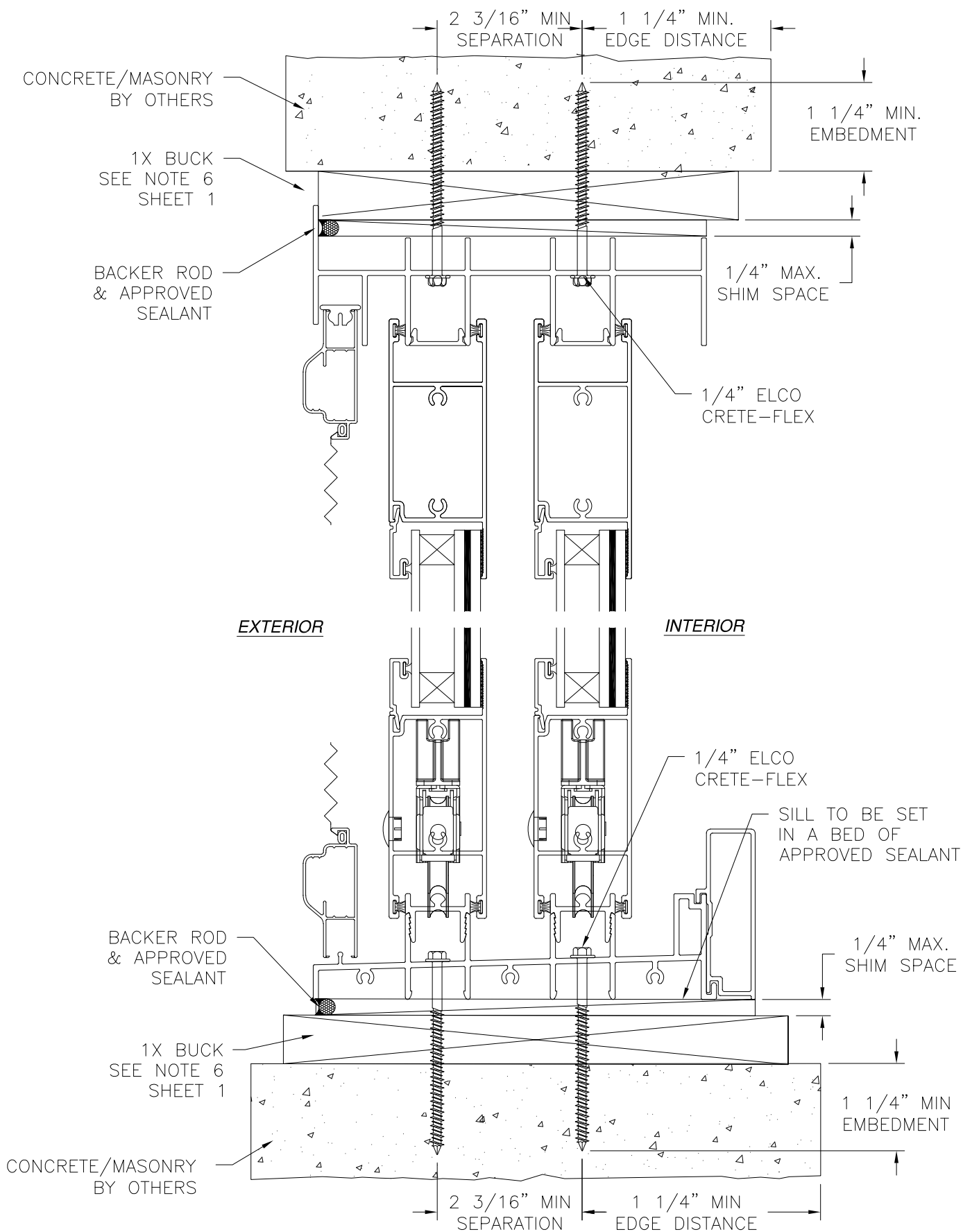
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

SIGNED: 07/27/2023

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 2 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 17 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

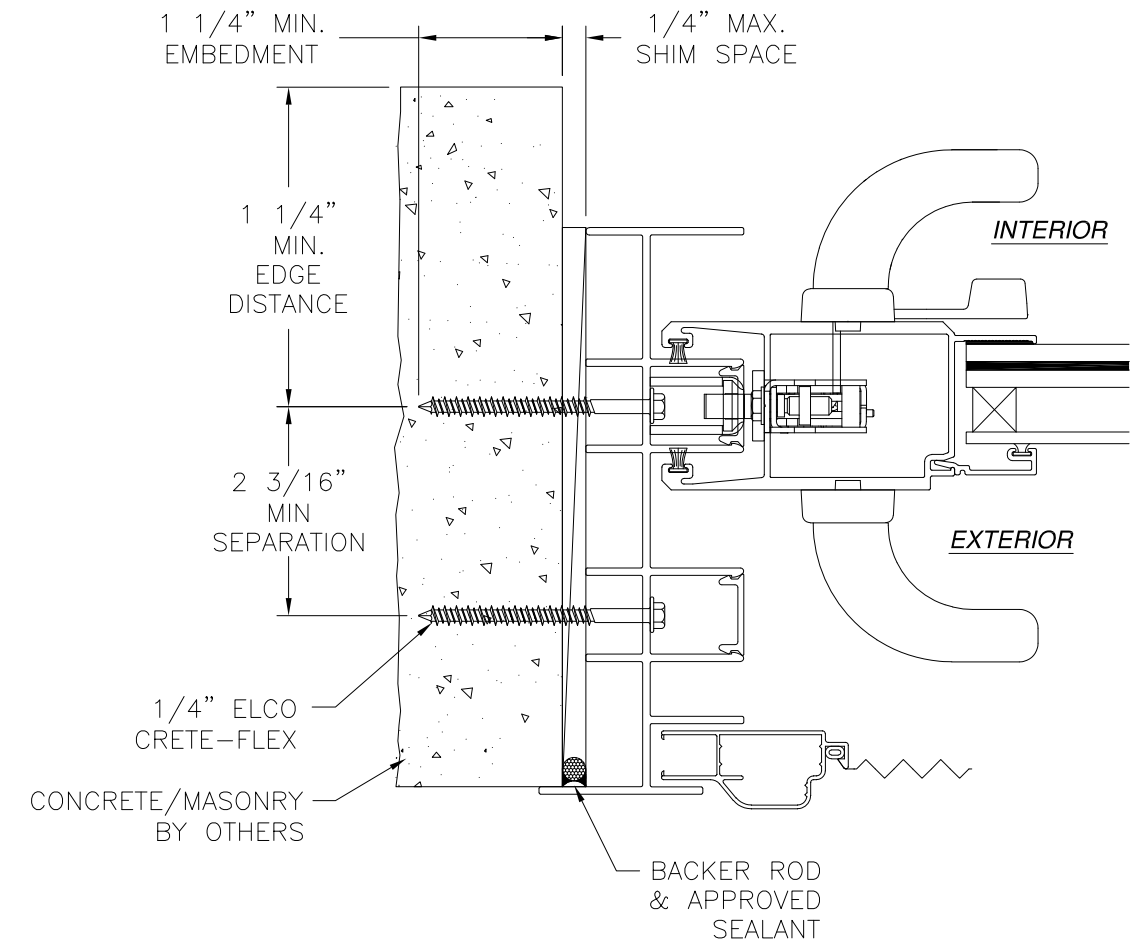


Luis R. Lomas P.E.
FL No.: 62514



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.

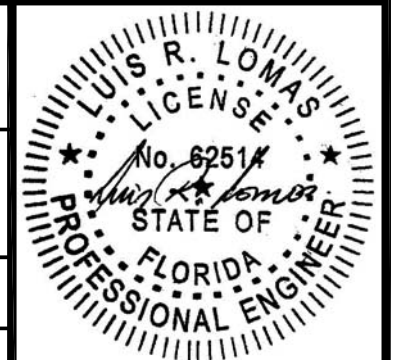


JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

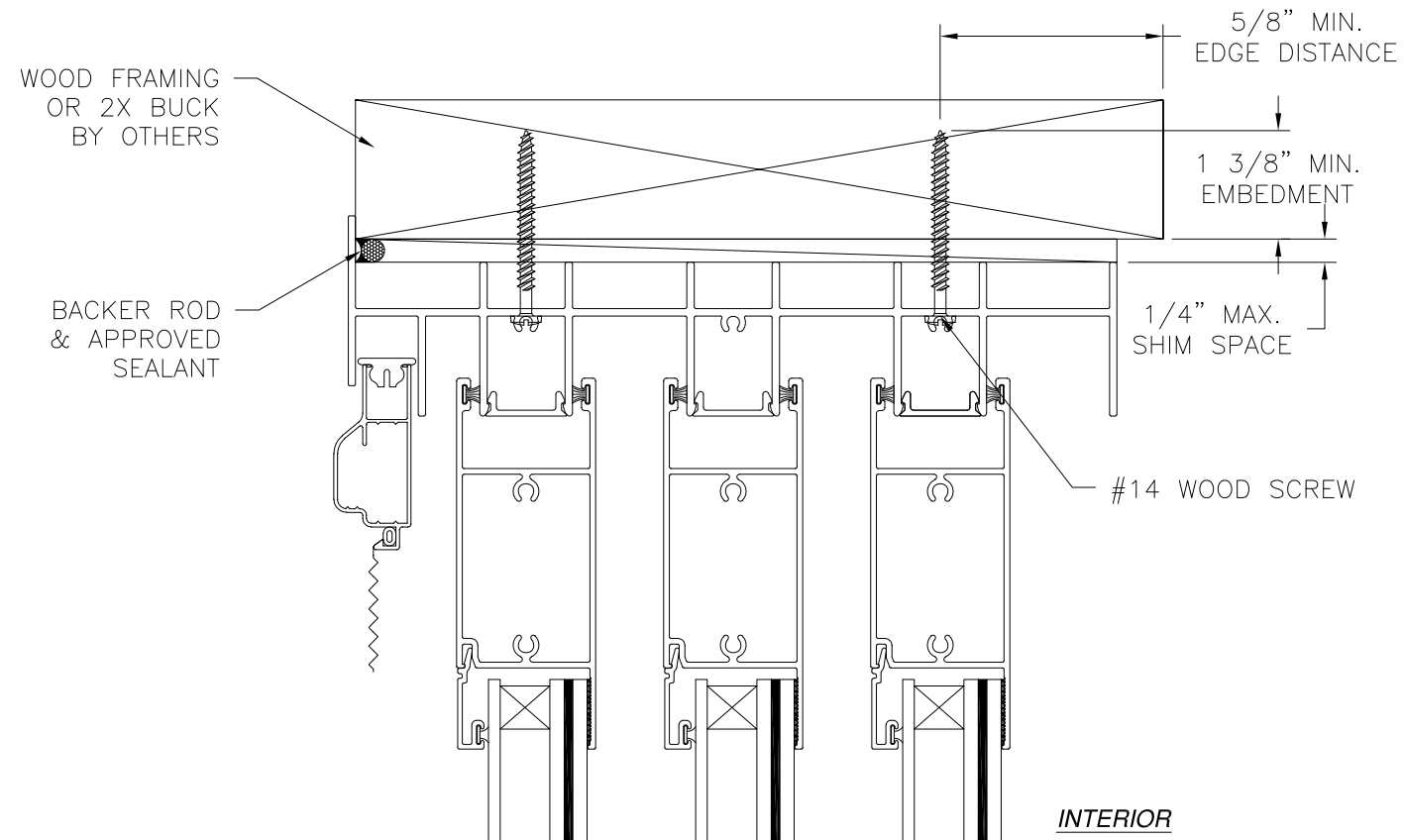
- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 07/27/2023

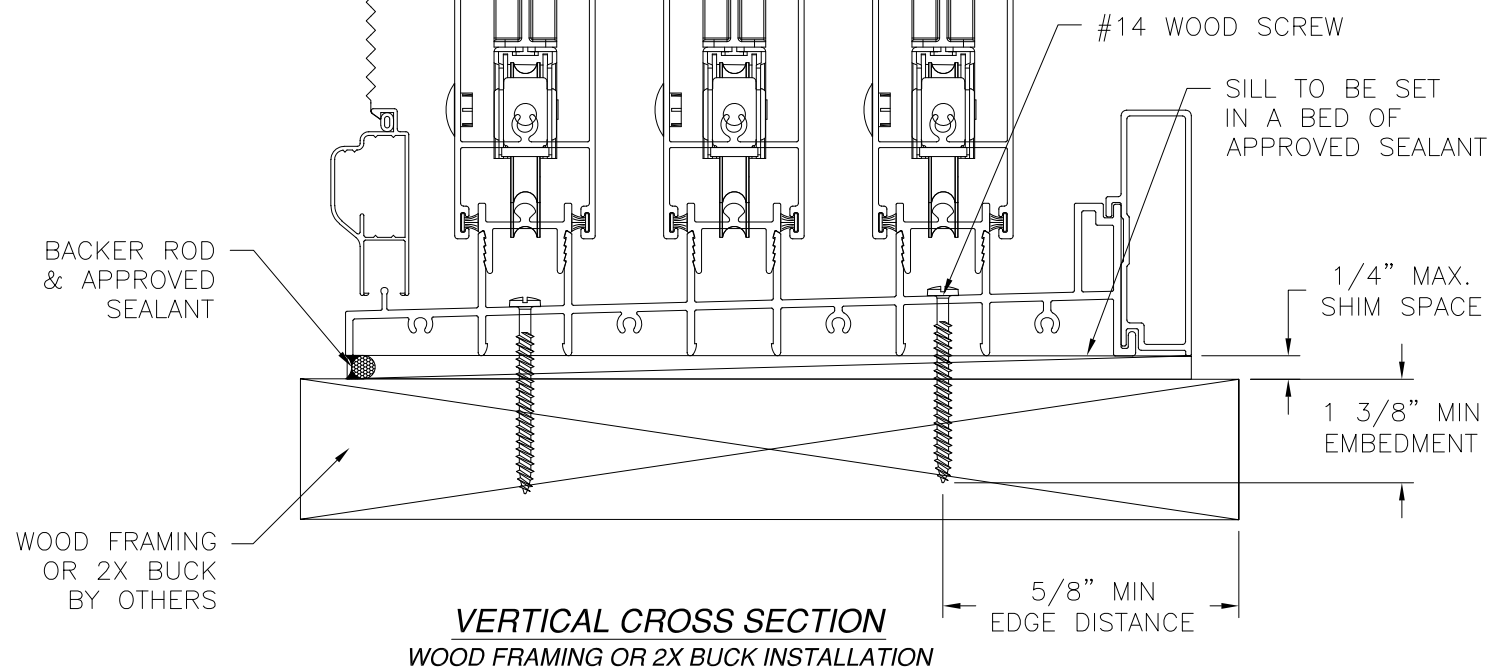
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 2 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 18 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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



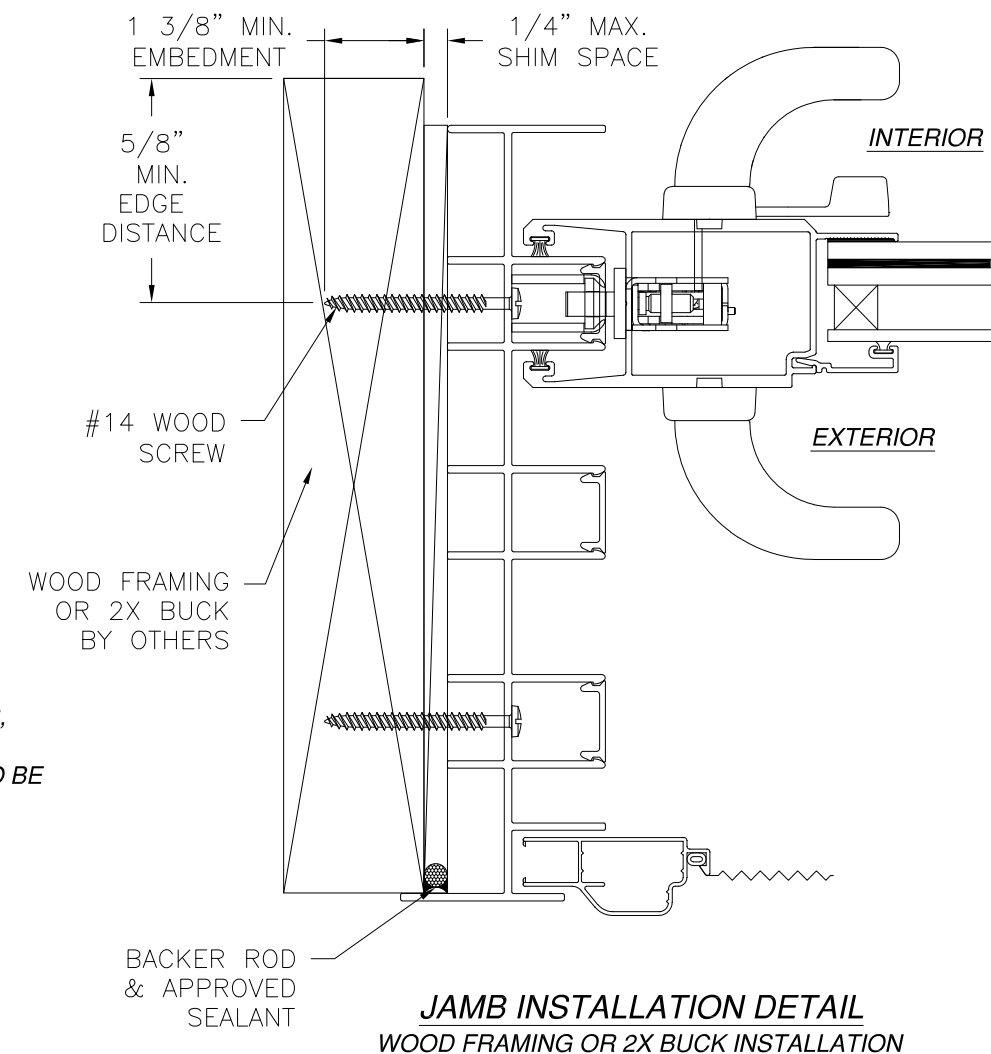
EXTERIOR



NOTES:

1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



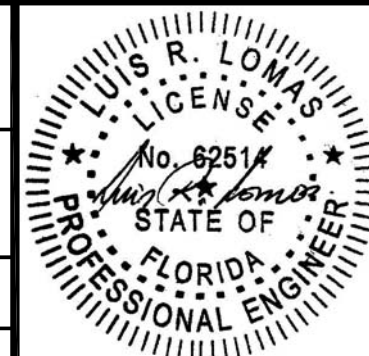
SIGNED: 07/27/2023

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

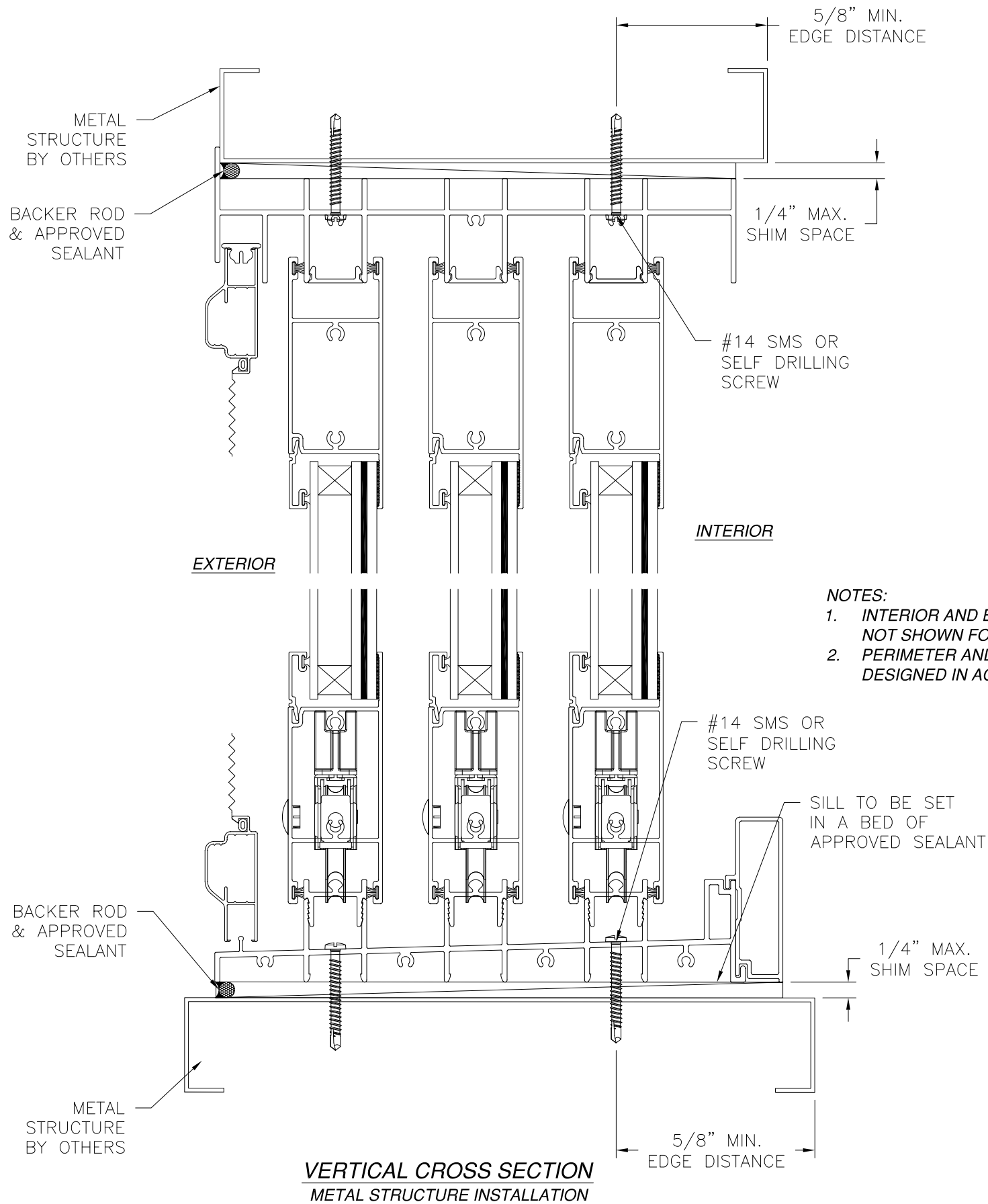
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REINFORCED – LARGE AND SMALL MISSILE IMPACT
3 TRACK FLANGE INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 19 OF 28

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

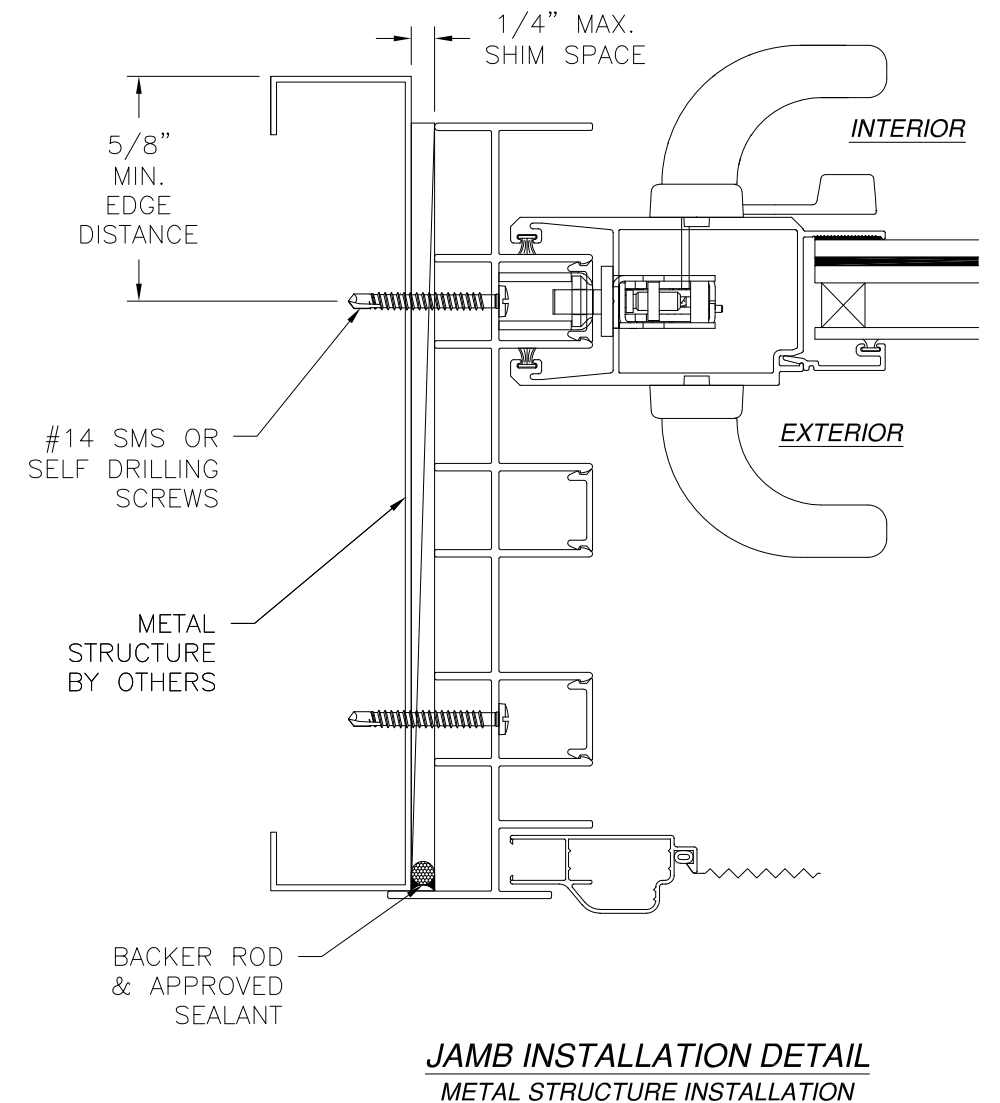


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FL No.: 62514



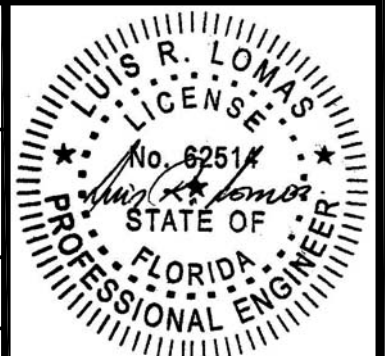
- NOTES:**
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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.

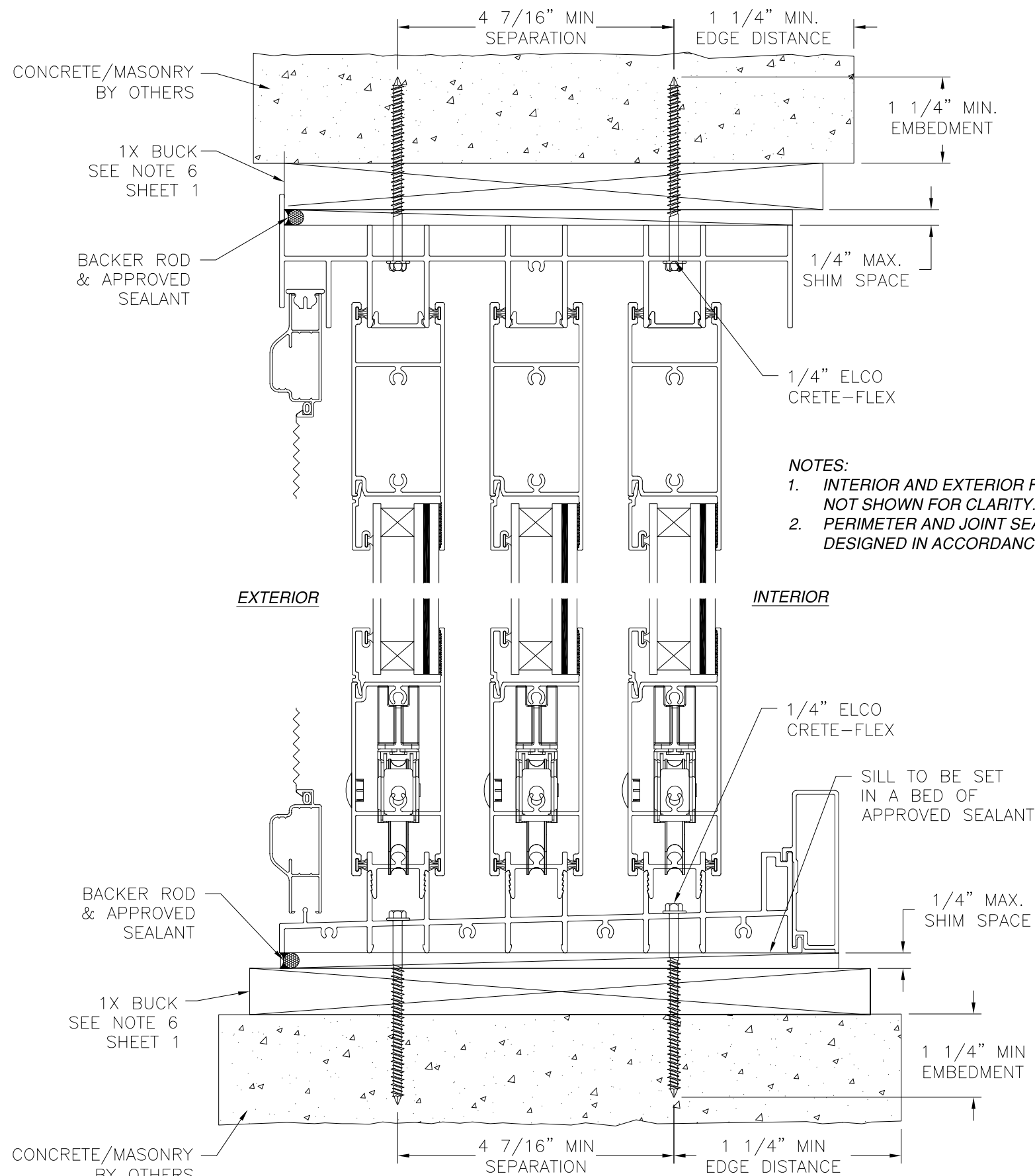


MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 3 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 20 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 07/27/2023

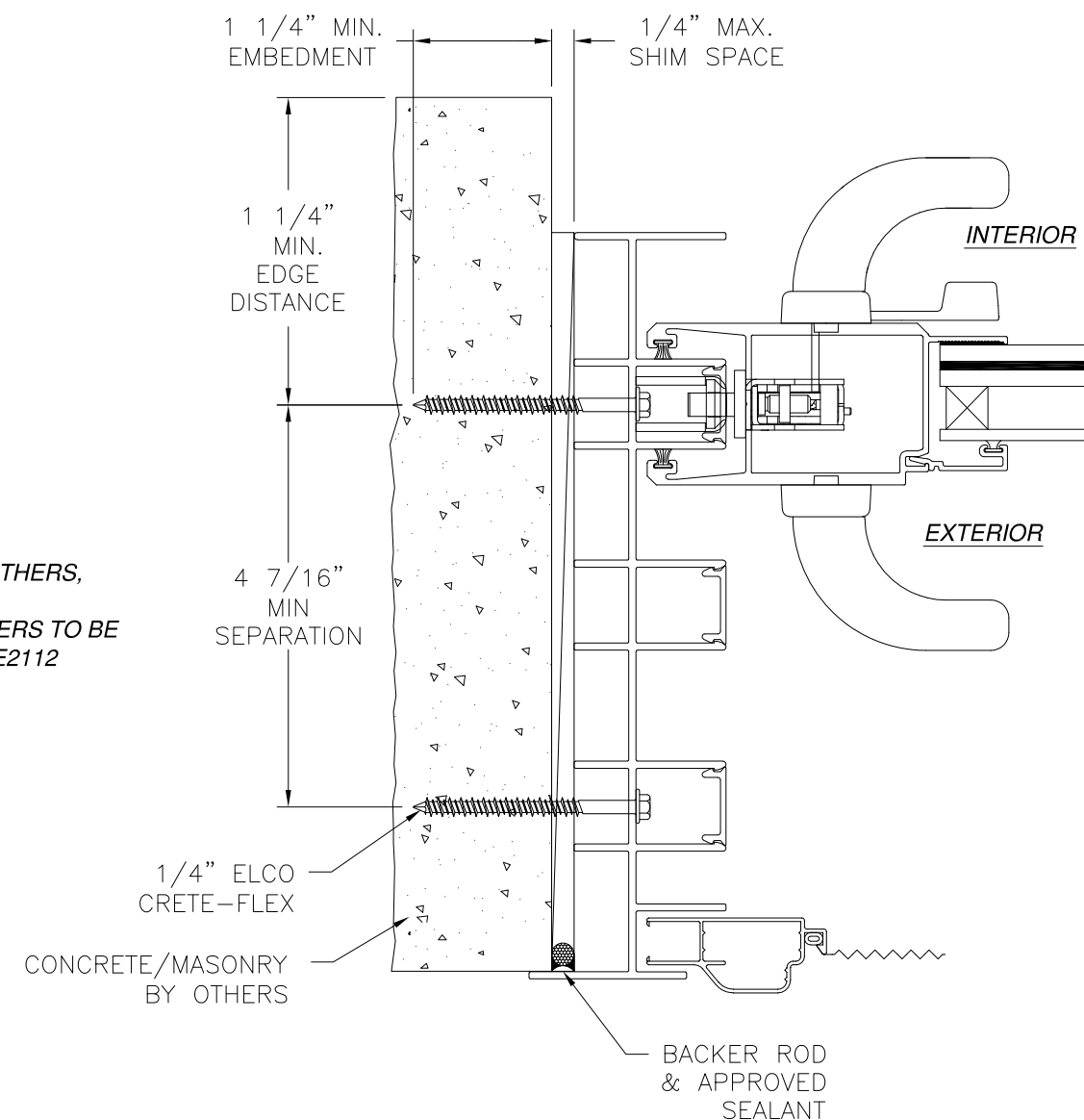


Luis R. Lomas P.E.
FL No.: 62514



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

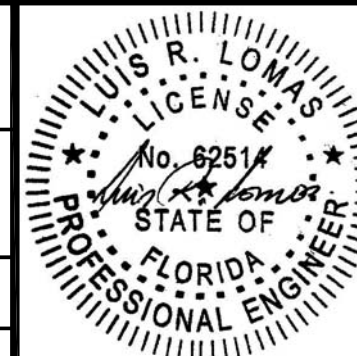
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



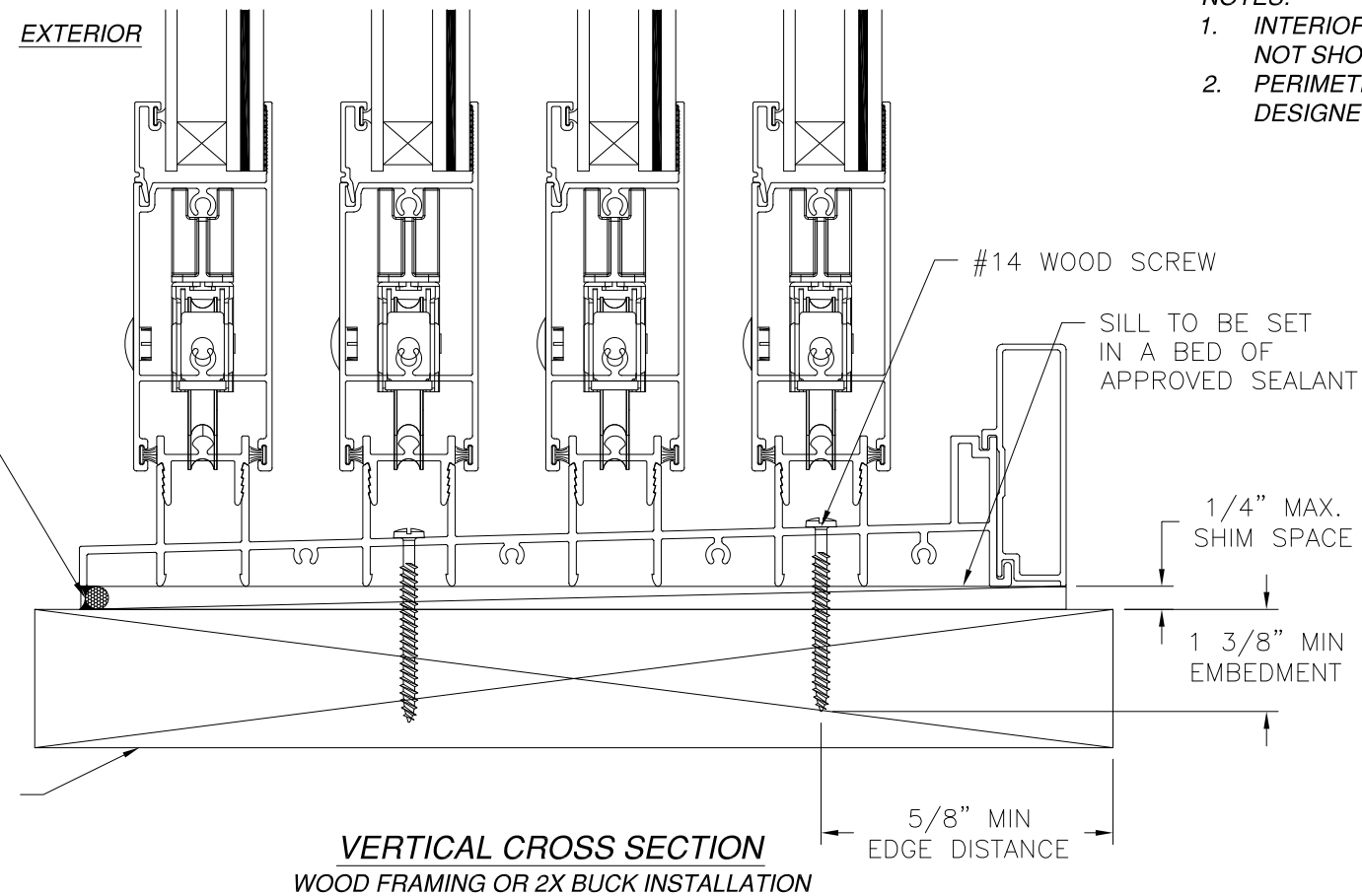
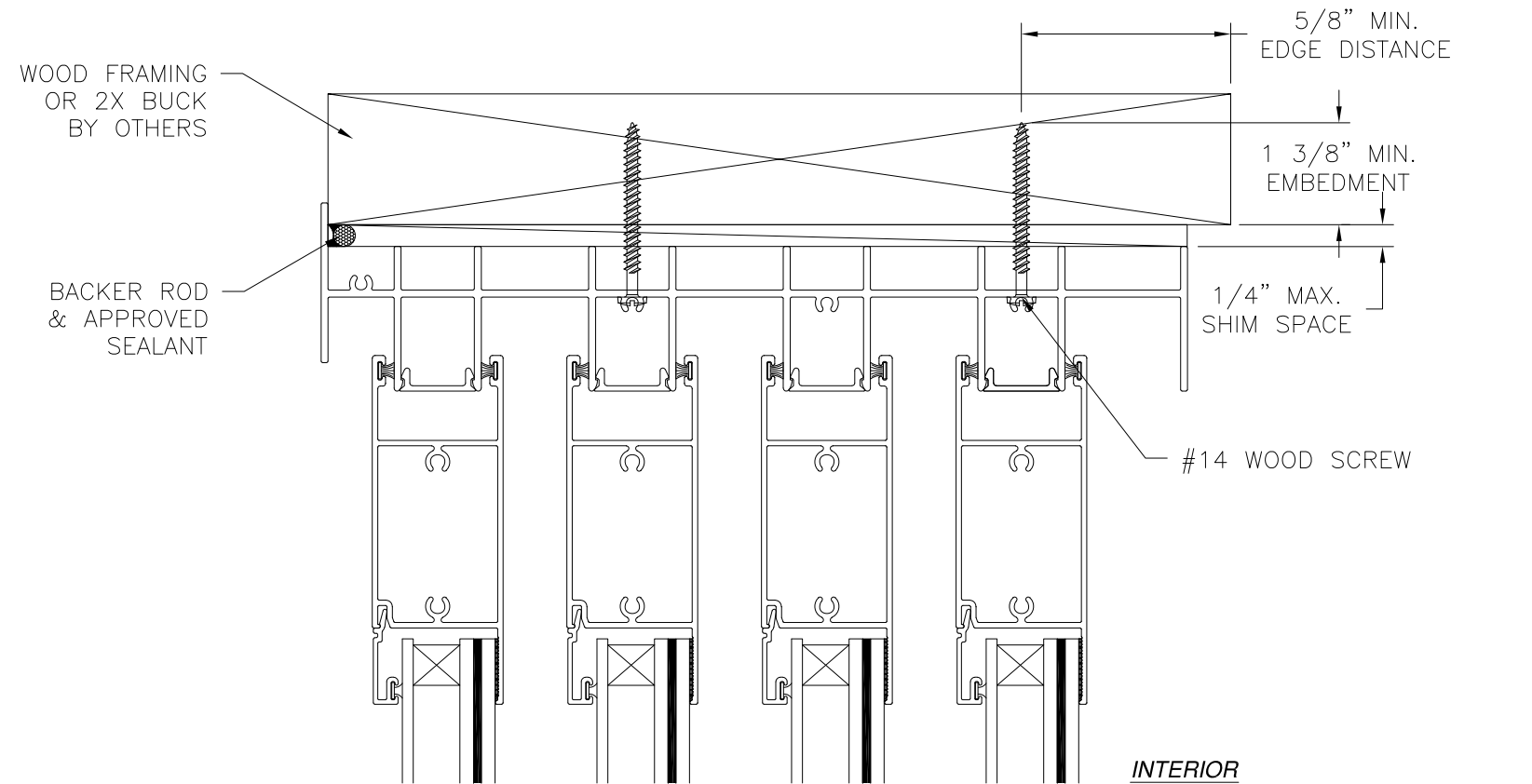
JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

SIGNED: 07/27/2023

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT 3 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 21 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



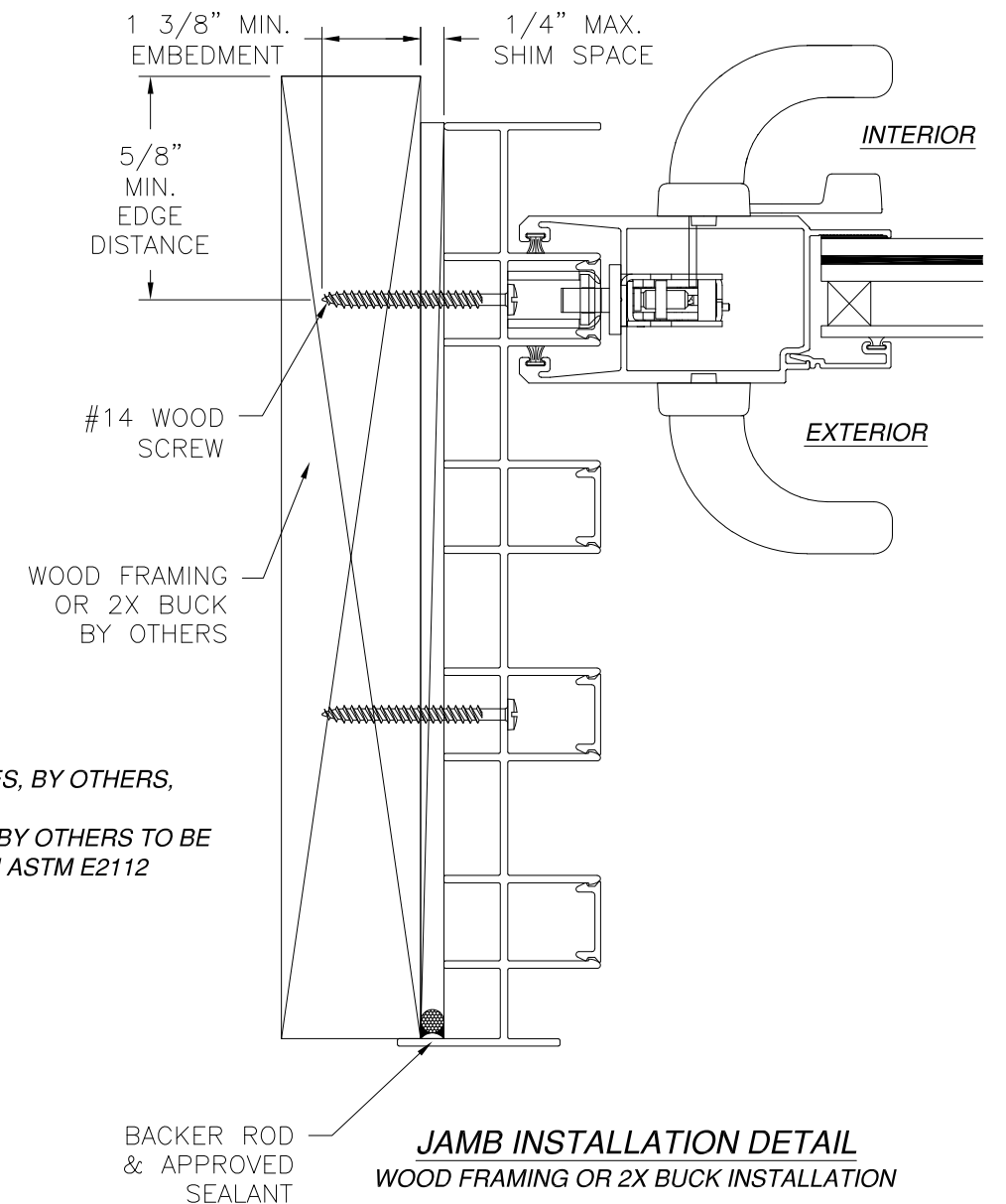
Luis R. Lomas P.E.
 FL No.: 62514



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	REVISED CONFIGURATIONS	07/13/2023	R.L.



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

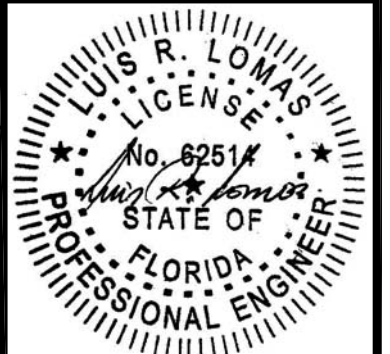
SIGNED: 07/27/2023

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

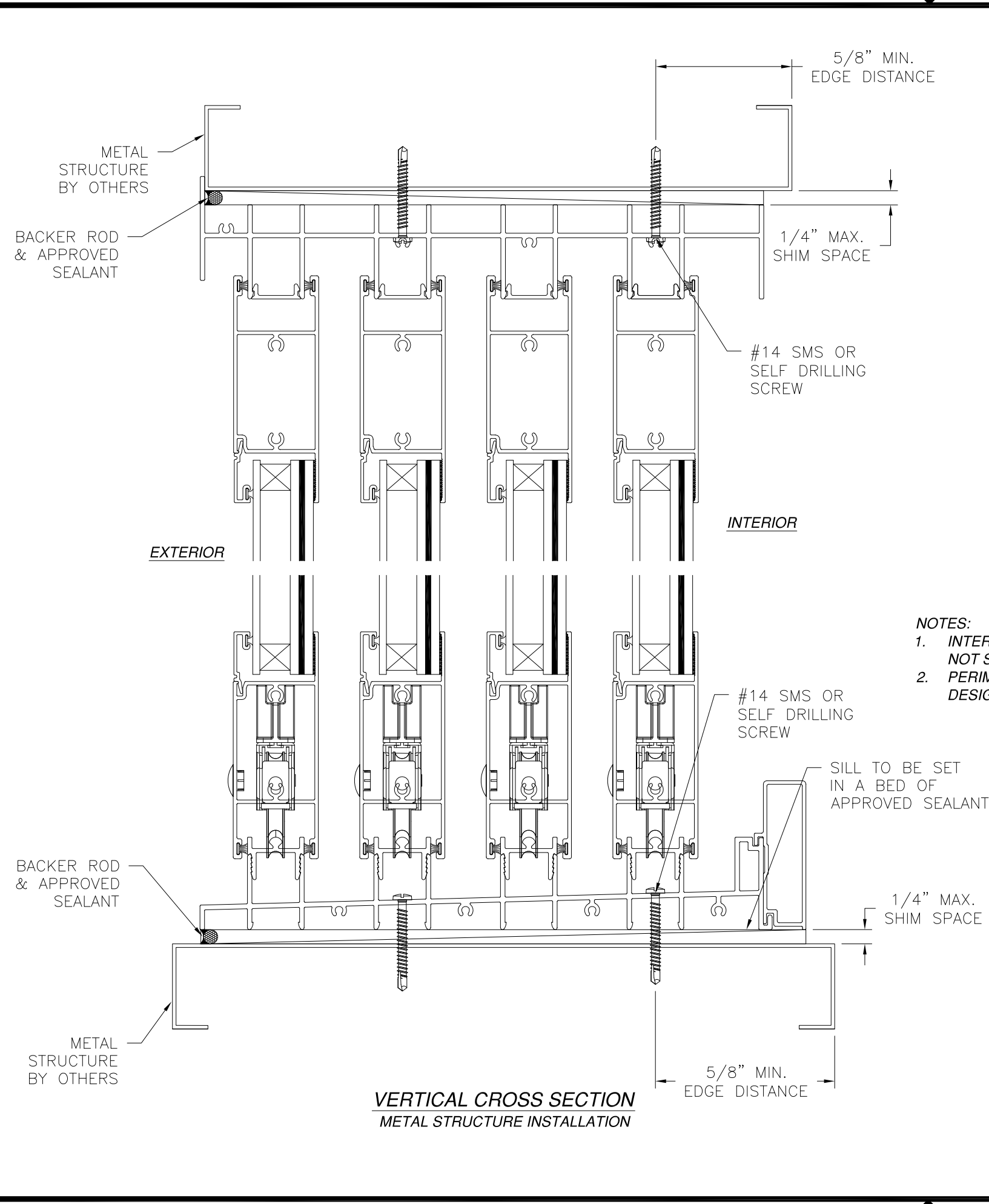
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REINFORCED – LARGE AND SMALL MISSILE IMPACT
4 TRACK FLANGE INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 22 OF 28

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

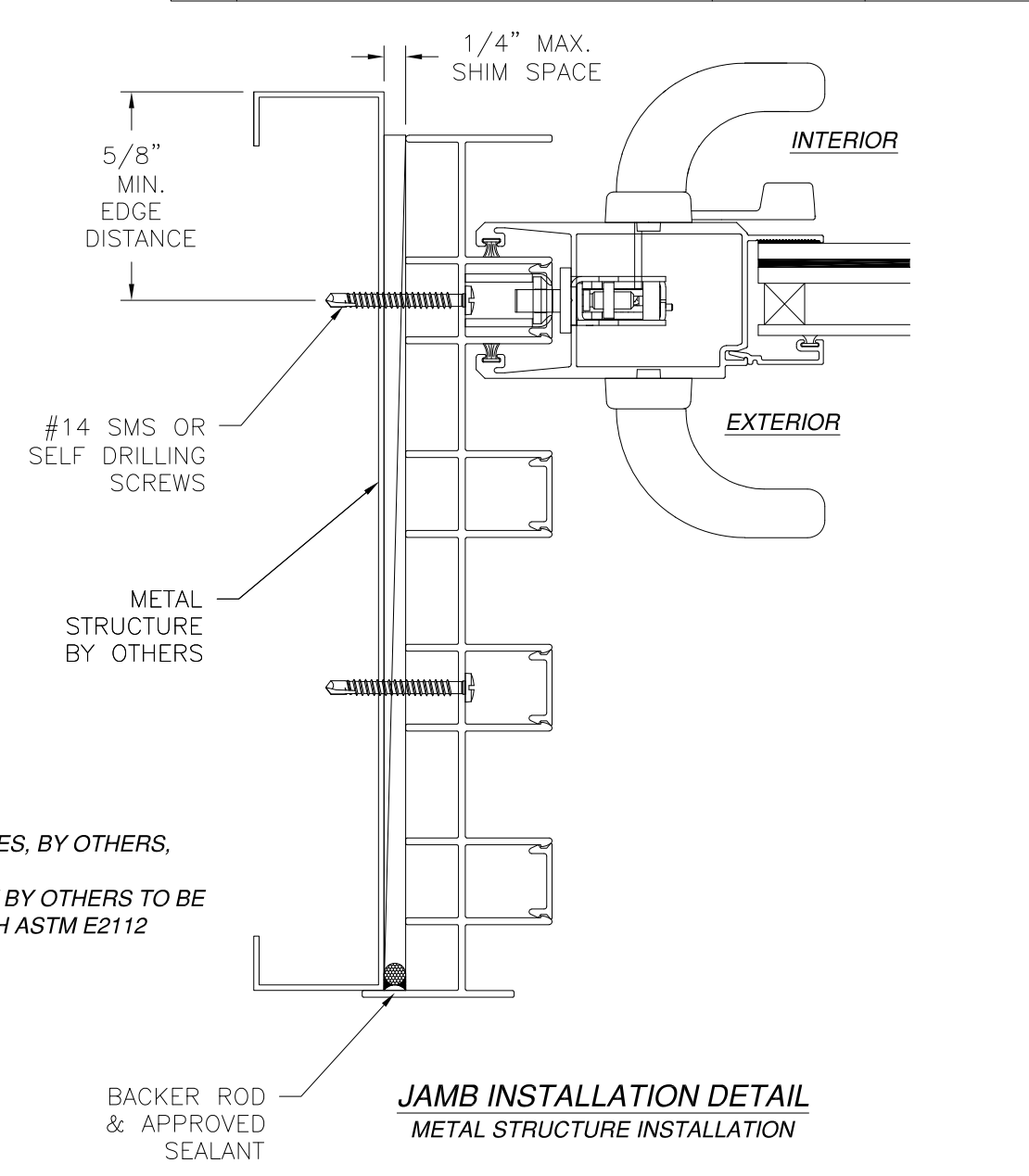


Luis R. Lomas P.E.
FL No.: 62514



- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
4 TRACK FLANGE INSTALLATION DETAILS

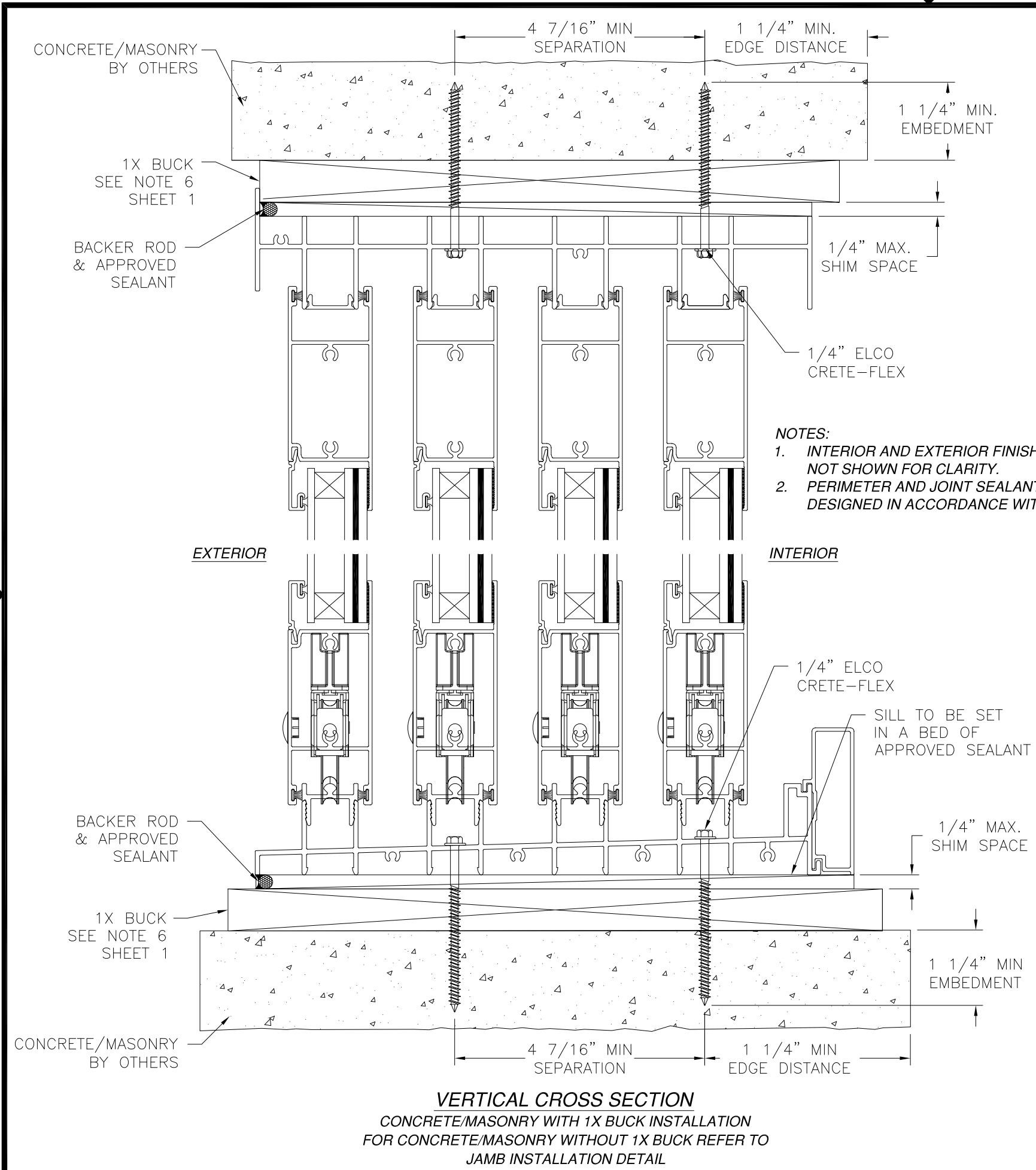
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SCALE NTS	DATE 08/27/18	SHEET 23 OF 28

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

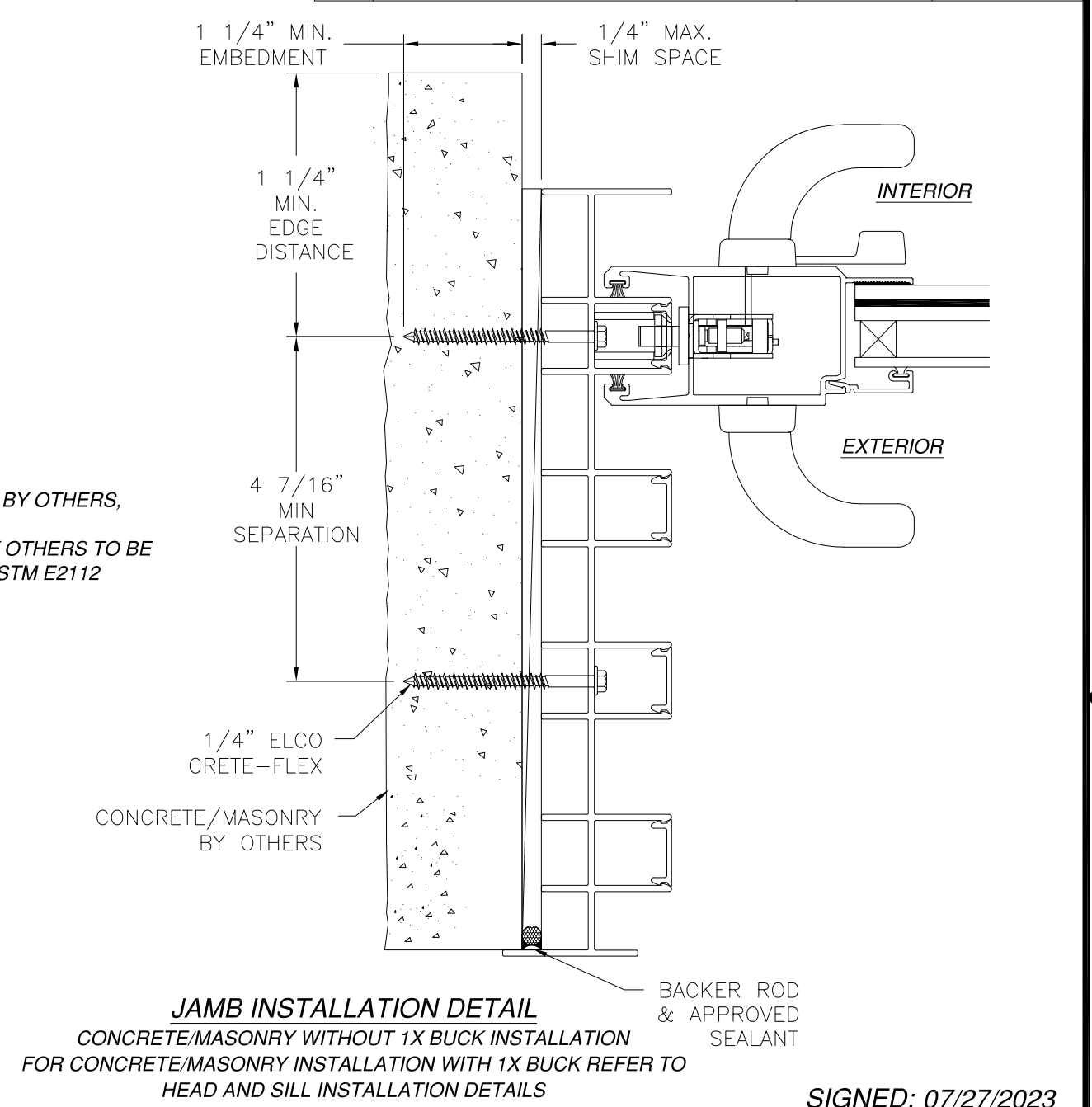
SIGNED: 07/27/2023

LUIS R. LOMAS
LICENSED PROFESSIONAL ENGINEER
No. 62514
STATE OF FLORIDA

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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



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

SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
4 TRACK FLANGE INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03259

REV
A

SCALE
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DATE
08/27/18

SHEET
24 OF 28

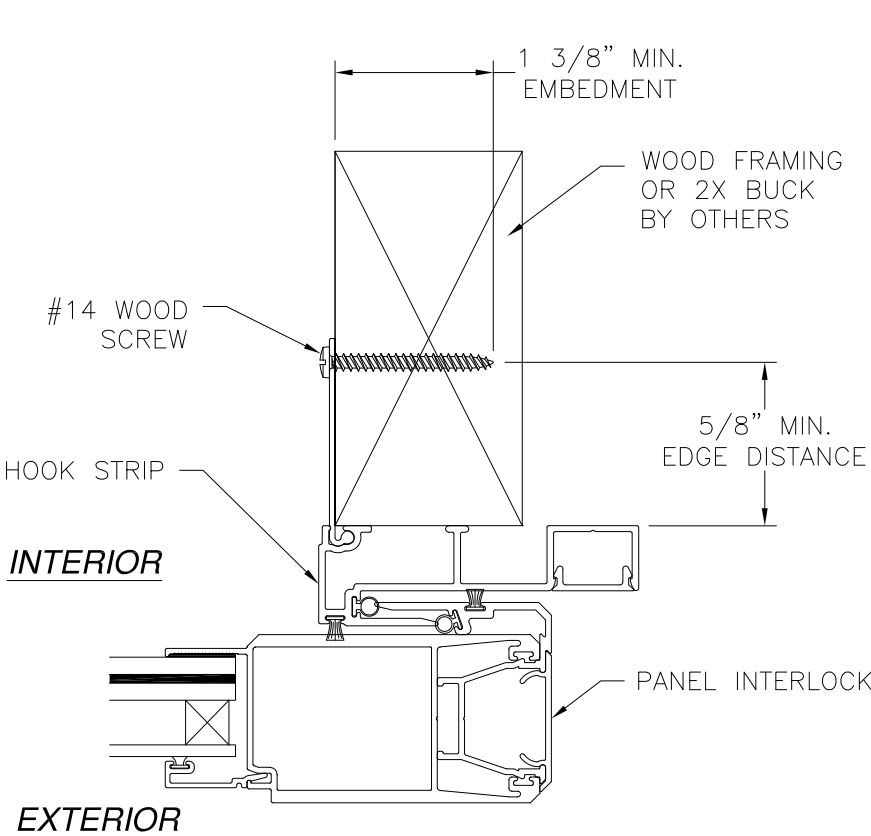
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

L. ROBERTO LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

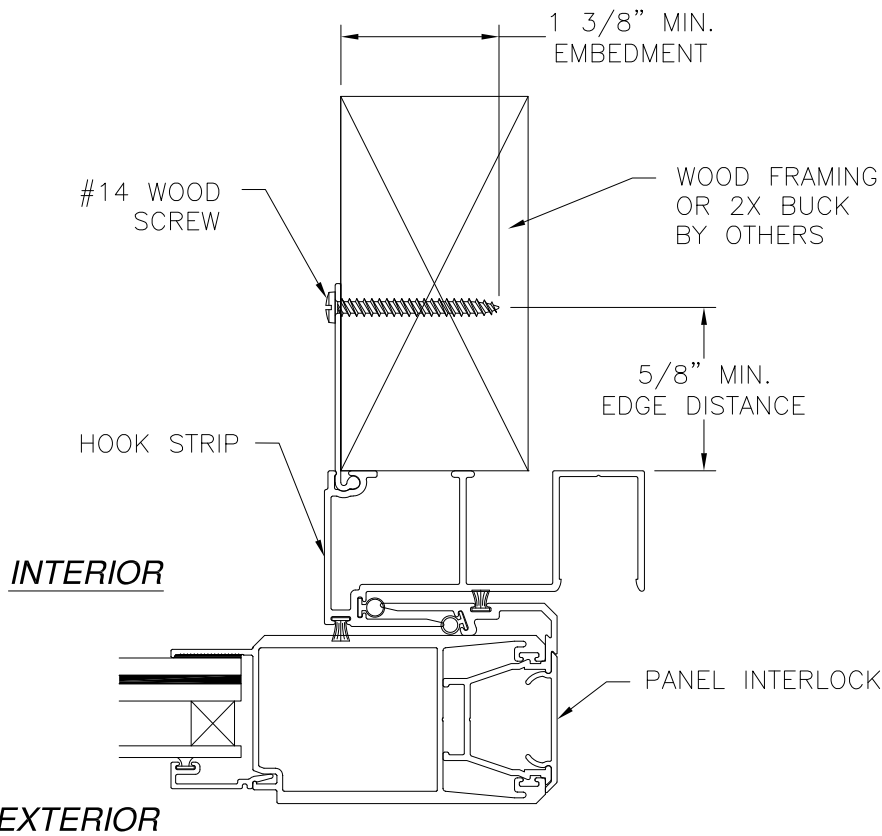
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.

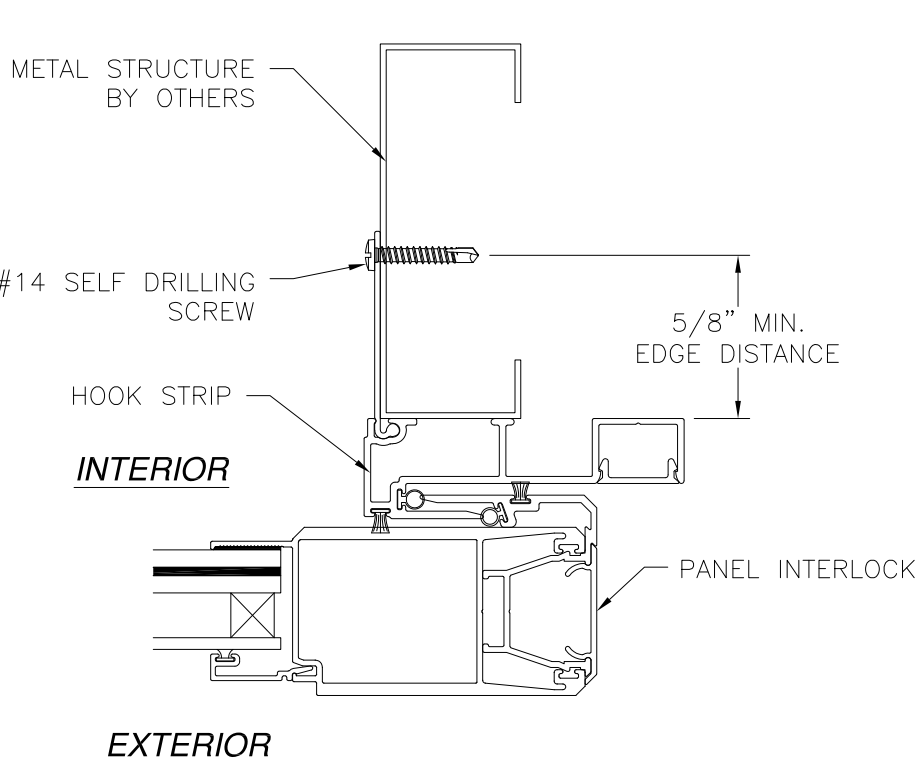
NOTES:
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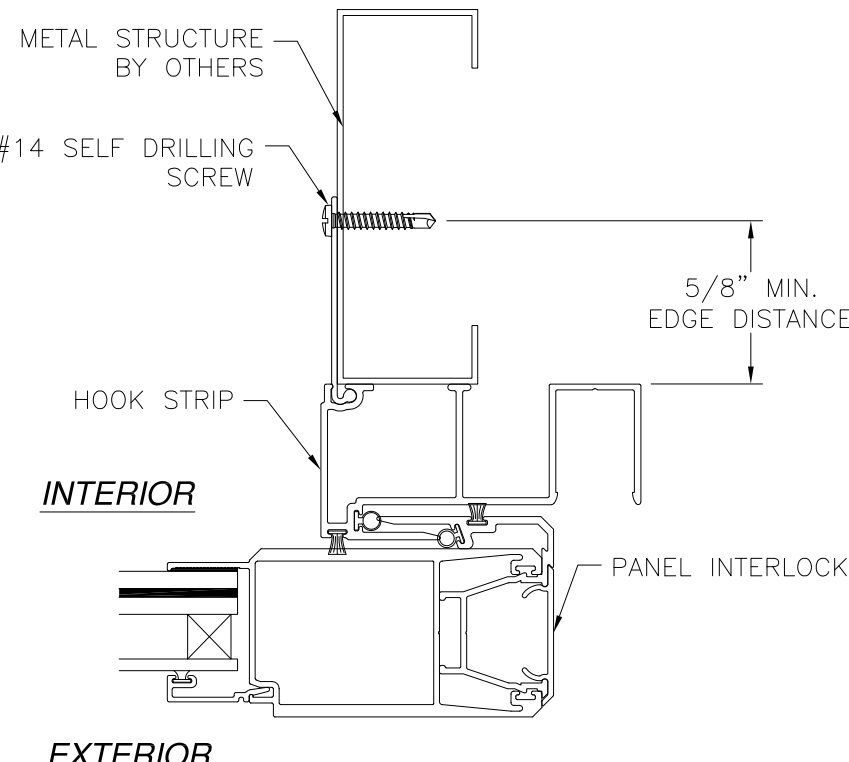
HOOK STRIP (M-2533) INSTALLATION
2X BUCK/WOOD FRAMING



HOOK STRIP (M-2534) INSTALLATION
2X BUCK/WOOD FRAMING



HOOK STRIP (M-2533) INSTALLATION
METAL STRUCTURE



HOOK STRIP (M-2534) INSTALLATION
METAL STRUCTURE

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

SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
HOOK INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03259

REV
A

SCALE NTS

DATE 08/27/18

SHEET 25 OF 28

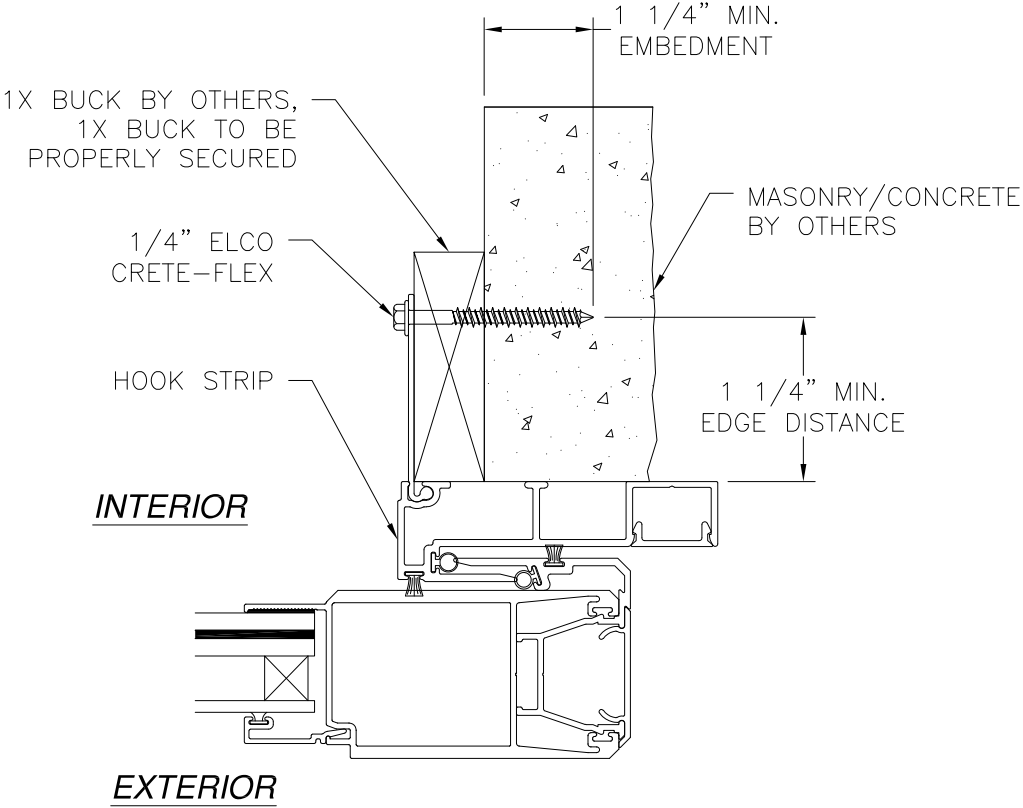
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 07/27/2023

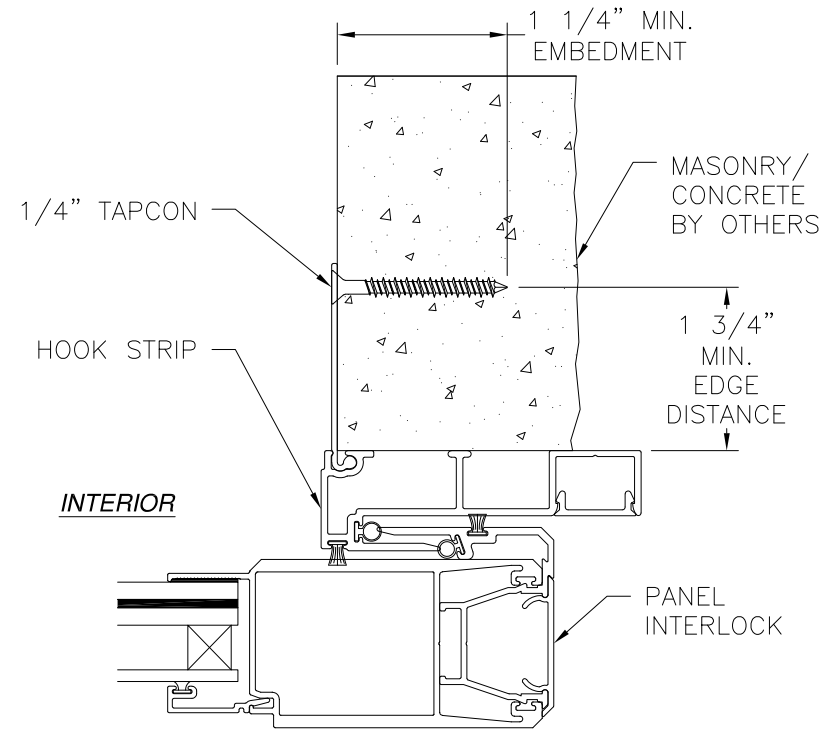


Luis R. Lomas P.E.
FL No.: 62514

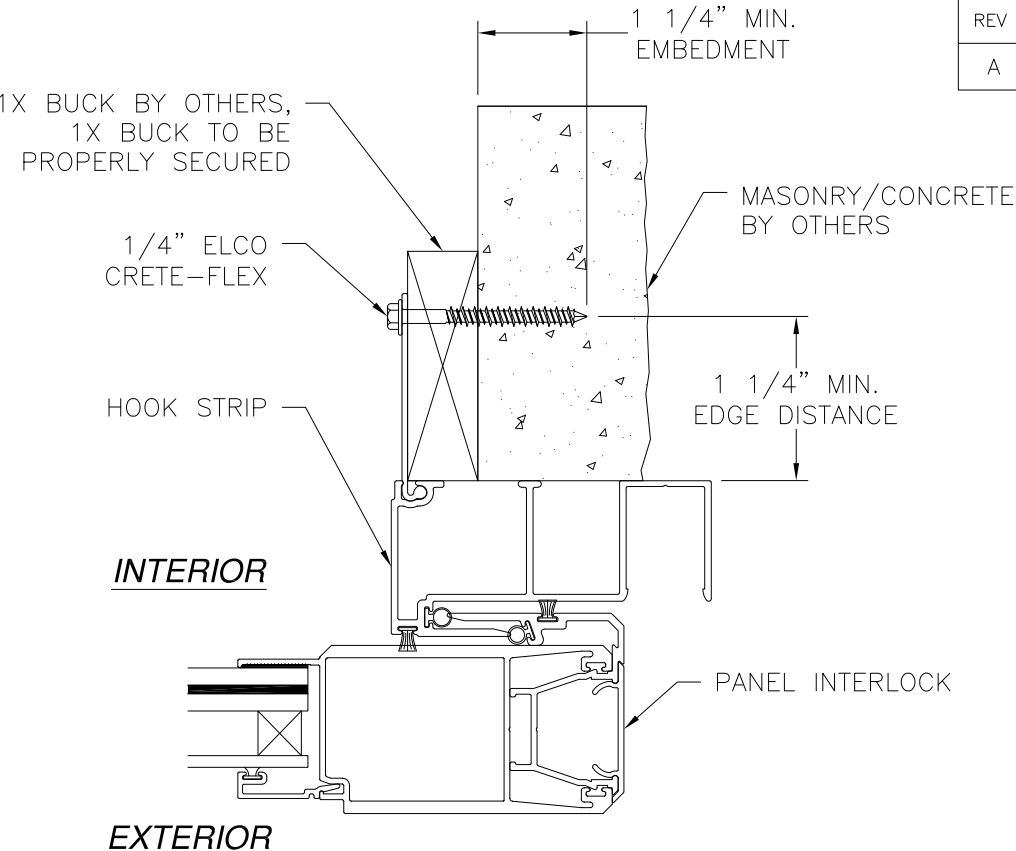
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



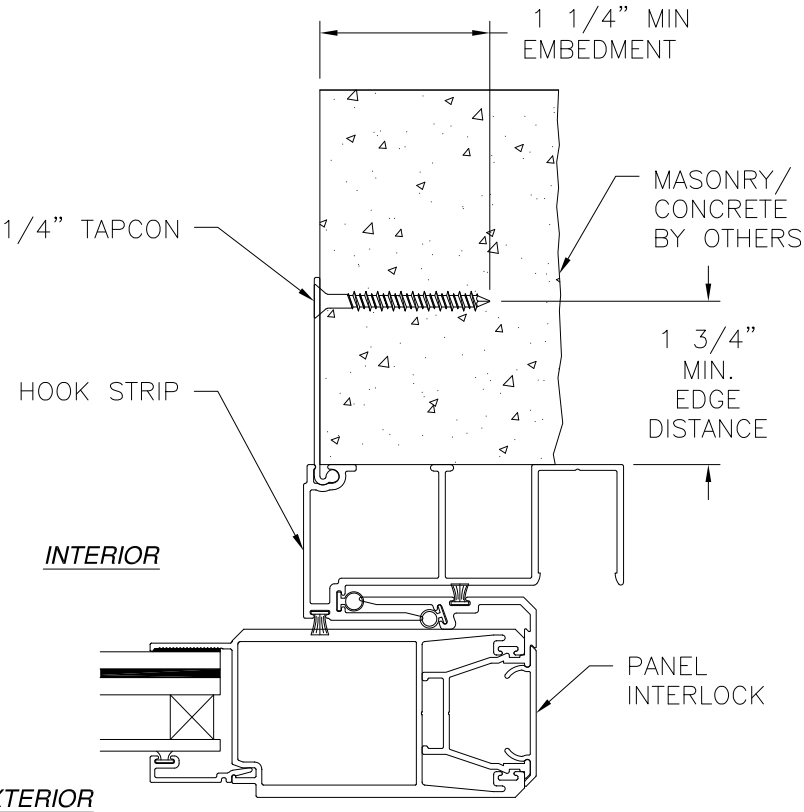
HOOK STRIP (M-2533) INSTALLATION
MASONRY/CONCRETE



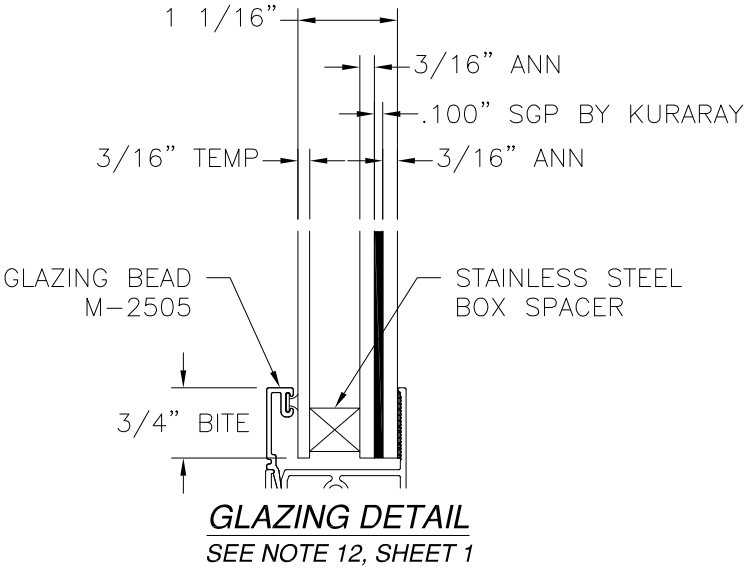
HOOK STRIP (M-2533) INSTALLATION
MASONRY/CONCRETE



HOOK STRIP (M-2534) INSTALLATION
MASONRY/CONCRETE



HOOK STRIP (M-2534) INSTALLATION
MASONRY/CONCRETE



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

SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
HOOK INSTALLATION DETAILS & GLAZING DETAIL

DRAWN: A.R.

DWG NO. 08-03259

REV A

SCALE NTS

DATE 08/27/18

SHEET 26 OF 28

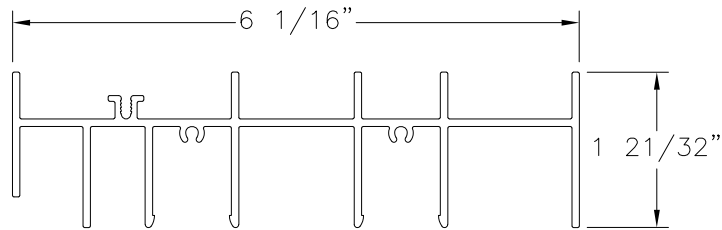
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 07/27/2023

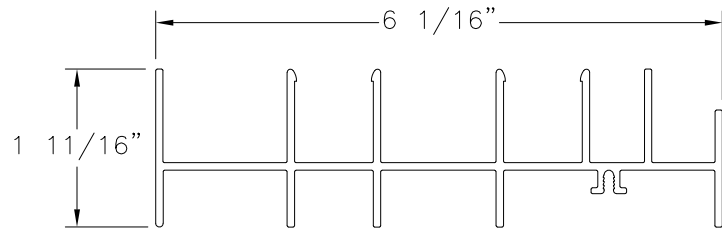


Luis R. Lomas P.E.
FL No.: 62514

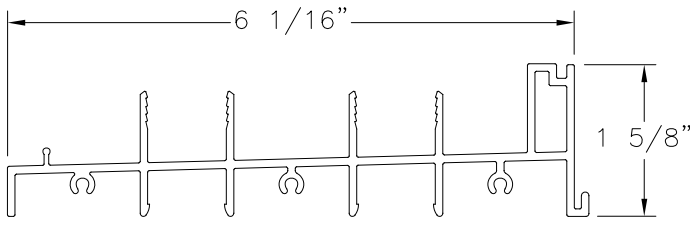
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.



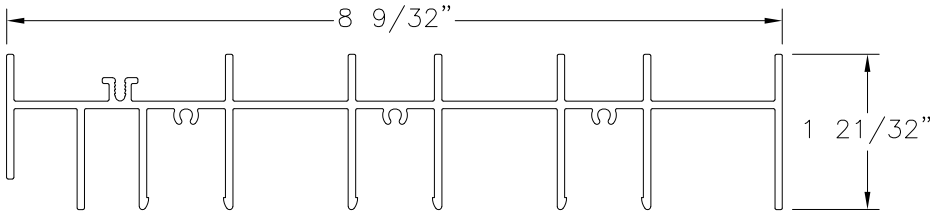
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ALUMINUM 6005-T5 (M-2520)



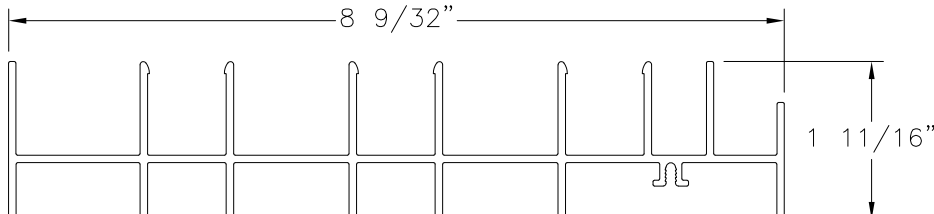
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ALUMINUM 6005-T5 (M-2523)



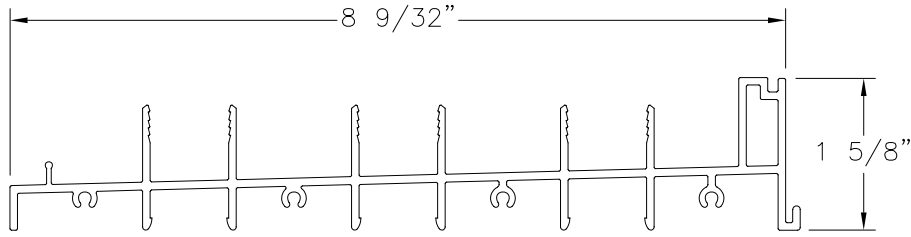
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ALUMINUM 6005-T5 (M-2522)



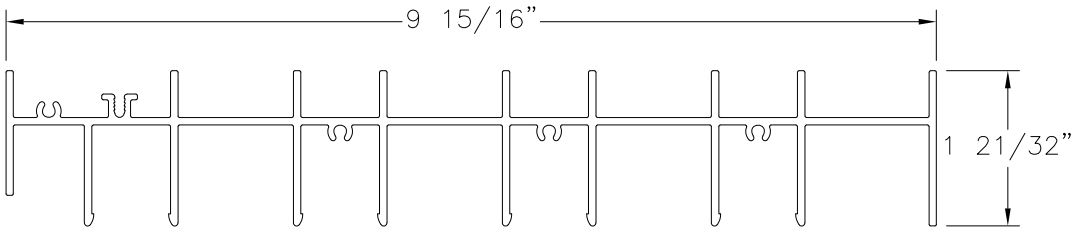
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ALUMINUM 6005-T5 (M-2520)



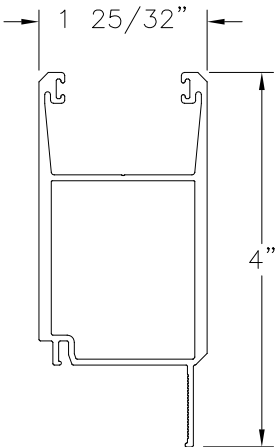
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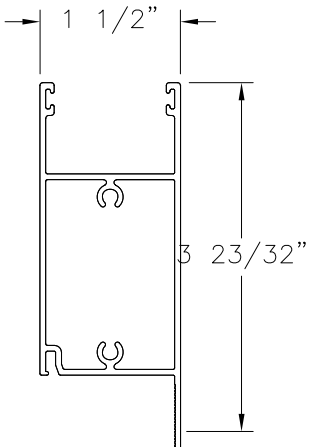
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ALUMINUM 6005-T5 (M-2522)



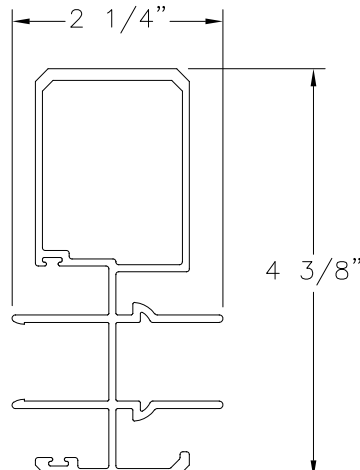
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ALUMINUM 6005-T5 (M-2520)



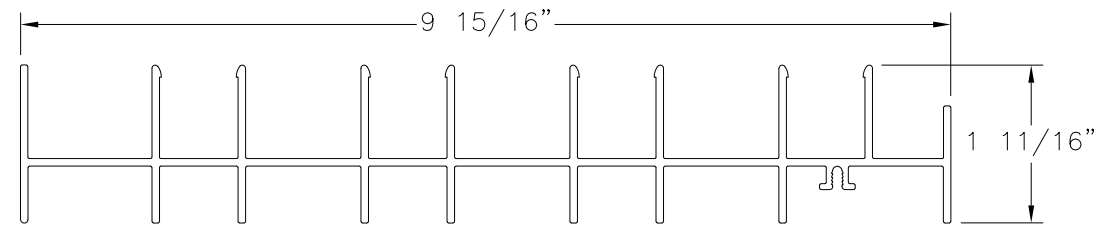
PANEL STILE
ALUMINUM 6005-T5 (M-2502)



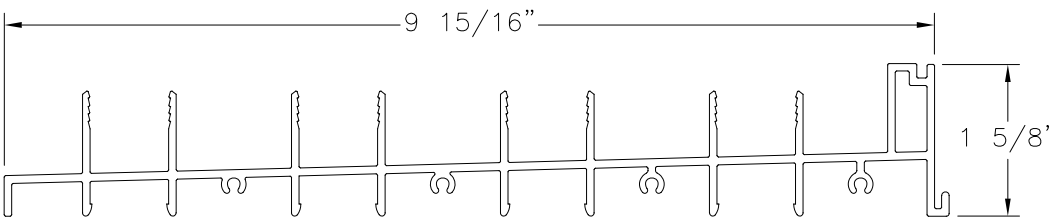
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ALUMINUM 6005-T5 (M-2500)



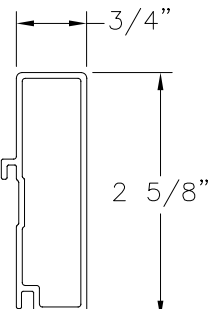
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ALUMINUM 6005-T5 (M-2518)



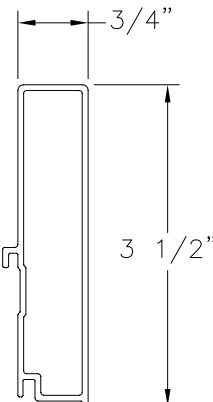
FRAME JAMB 4TRACK, FINLESS
ALUMINUM 6005-T5 (M-2523)



FRAME SILL 4TRACK
ALUMINUM 6005-T5 (M-2522)



2 5/8" SILL EXTENDER
ALUMINUM 6063-T5 .062" THICK



3 1/2" SILL EXTENDER
ALUMINUM 6063-T5 .062" THICK

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

SERIES 120/130/140 ALUMINUM SGD
REINFORCED – LARGE AND SMALL MISSILE IMPACT
COMPONENTS

DRAWN:
A.R.

DWG NO.
08-03259

REV
A

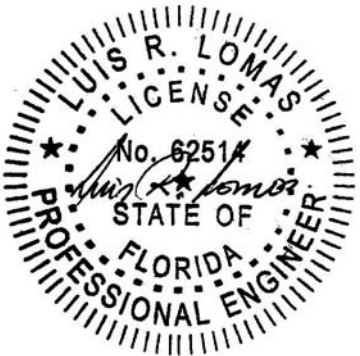
SCALE NTS

DATE 08/27/18

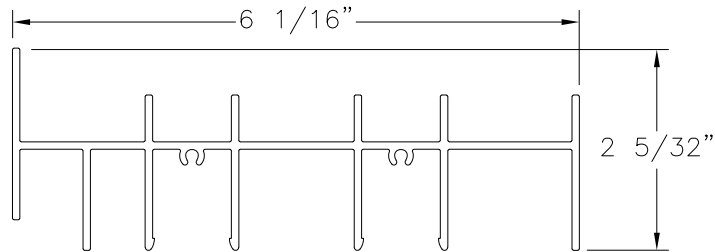
SHEET 27 OF 28

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

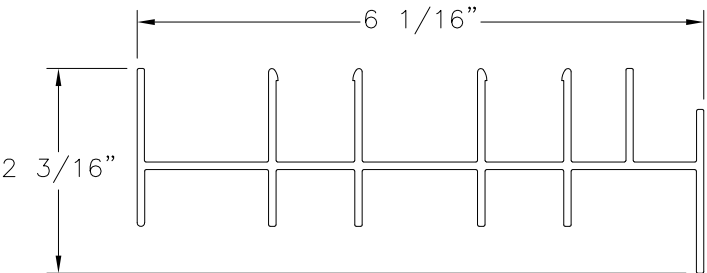
SIGNED: 07/27/2023



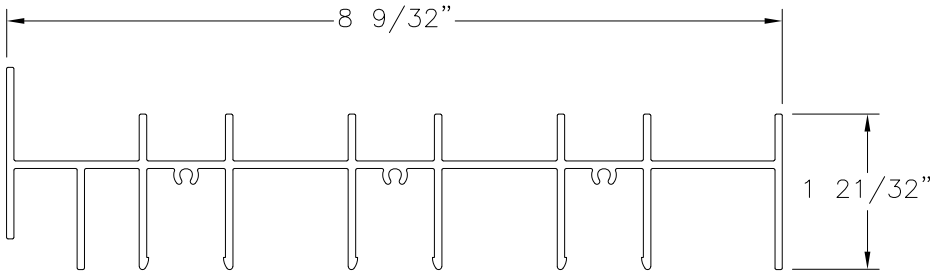
Luis R. Lomas P.E.
FL No.: 62514



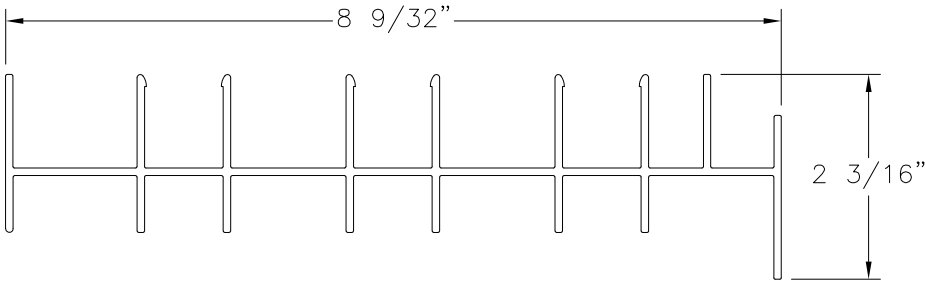
FRAME HEAD 2TRACK, FLANGE
ALUMINUM 6005-T5 (M-2520)



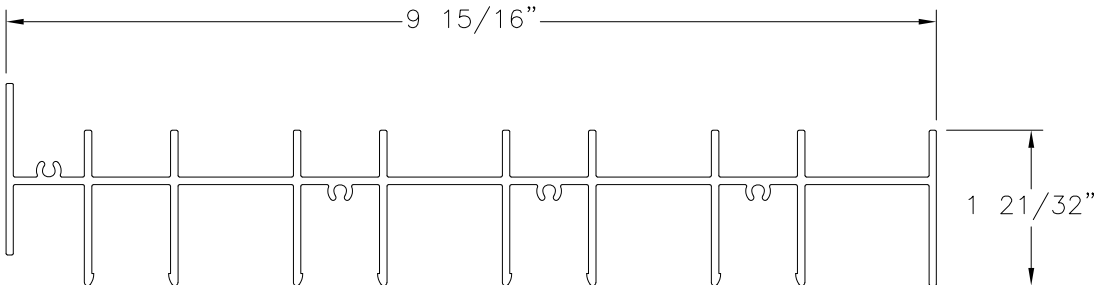
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ALUMINUM 6005-T5 (M-2523)



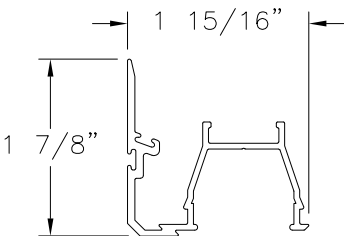
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ALUMINUM 6005-T5 (M-2520)



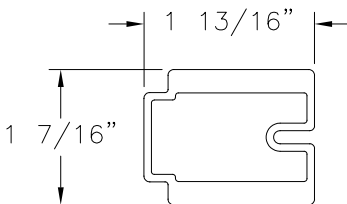
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ALUMINUM 6005-T5 (M-2523)



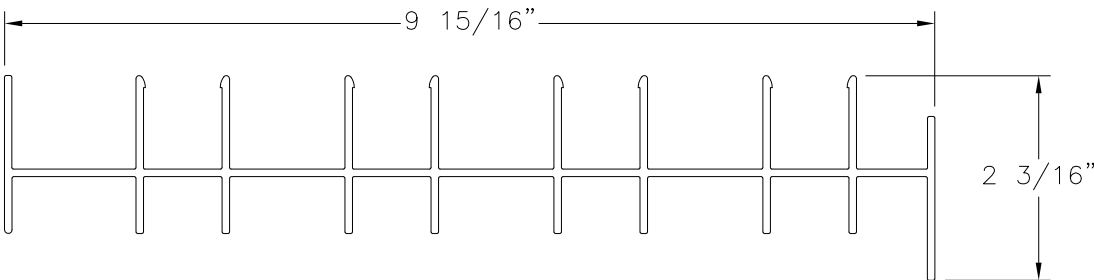
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ALUMINUM 6005-T5 (M-2520)



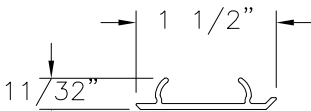
PANEL INTERLOCK
ALUMINUM 6005-T5 (M-2503)



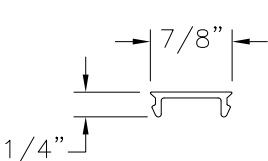
MEETING RAIL REINFORCEMENT
ALUMINUM 6005-T5 (M-2516)



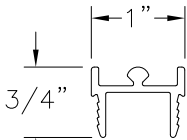
FRAME JAMB 4TRACK, FLANGE
ALUMINUM 6005-T5 (M-2523)



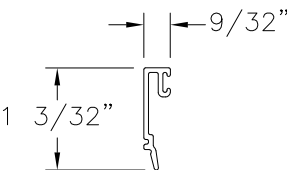
INTERLOCK COVER
ALUMINUM 6005-T5 (M-2504)



HEAD/JAMB FILLER
ALUMINUM 6063-T5 (M-2512)



SILL SNAP-IN ROLLER TRACK
ALUMINUM 6063-T5 (M-2511)

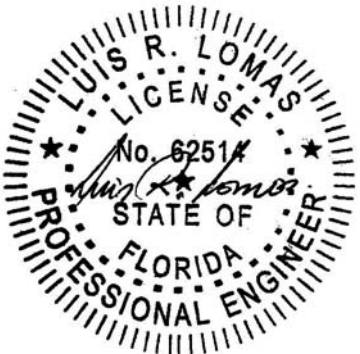


GLAZING BEAD
ALUMINUM 6063-T5 (M-2505)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CONFIGURATIONS	07/13/2023	R.L.

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD REINFORCED – LARGE AND SMALL MISSILE IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03259	REV A
SCALE NTS	DATE 08/27/18	SHEET 28 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 07/27/2023



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