

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	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 32 FOR GLASS DETAILS.
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.

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

SERIES 120/130/140 ALUMINUM SGD
NON–REINFORCED, LARGE & SMALL MISSILE IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08–03321

REV
A

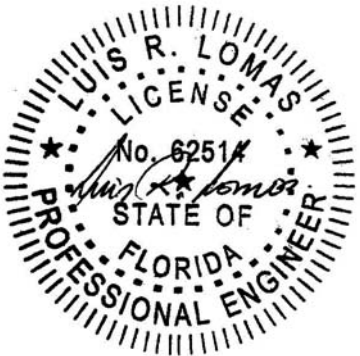
SCALE NTS

DATE 09/19/18

SHEET 1 OF 34

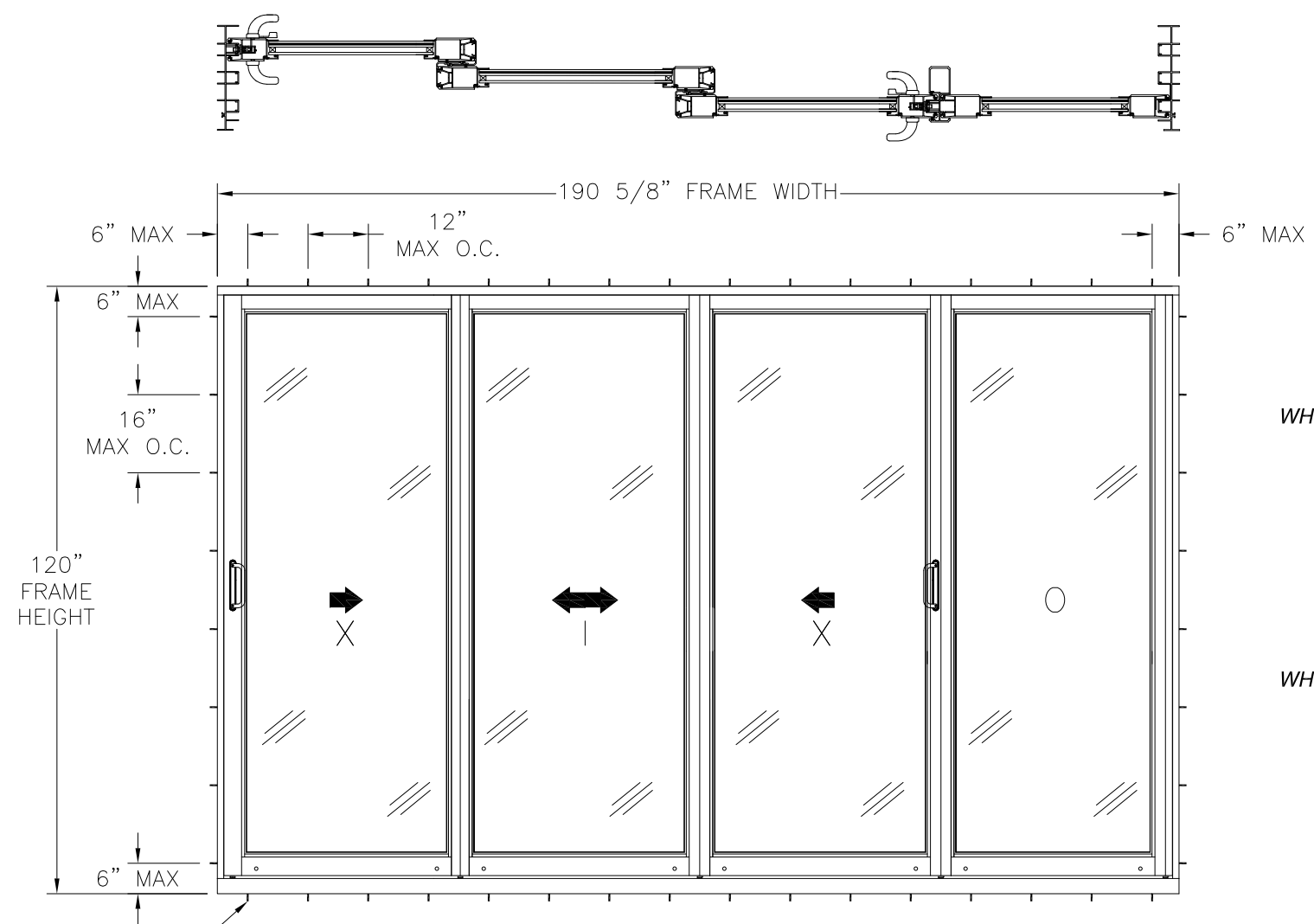
L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/03/2022



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

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REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



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

- NOTES:
1. FIXED PANEL SIZE: 49 5/8" x 117 1/2"
 2. OPERABLE PANEL: 48 5/8" x 117 1/2"
 3. MAXIMUM D.L.O.: 40 5/8" x 109 3/4"

HARDWARE SCHEDULE

A.	TANDEM ROLLER ASSEMBLY, 2 PER PANEL, 8" FROM EACH END OF BOTTOM RAIL
B.	LOCK HANDLE BY TRUTH/AMESBURY, INTERIOR AND EXTERIOR OF OPERABLE PANEL, 39" FROM BOTTOM RAIL
C.	LOCK HANDLE BY FASCO, INTERIOR AND EXTERIOR OF OPERABLE PANEL, 39" FROM BOTTOM RAIL

WITH 2 5/8" SILL EXTENDER AND GLASS A

DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-55.0PSF	LARGE & SMALL MISSILE IMPACT

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

WITH 3 1/2" SILL EXTENDER AND GLASS A

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE & SMALL MISSILE IMPACT

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

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

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE & SMALL MISSILE IMPACT

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

WITH 2 5/8" SILL EXTENDER AND GLASS B

DESIGN PRESSURE RATING	IMPACT RATING
±27.1PSF	LARGE & SMALL MISSILE IMPACT

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

WITH 3 1/2" SILL EXTENDER AND GLASS B

DESIGN PRESSURE RATING	IMPACT RATING
±27.1PSF	LARGE & SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #5 SHEET 4

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

DESIGN PRESSURE RATING	IMPACT RATING
±27.1PSF	LARGE & SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #6 SHEET 4

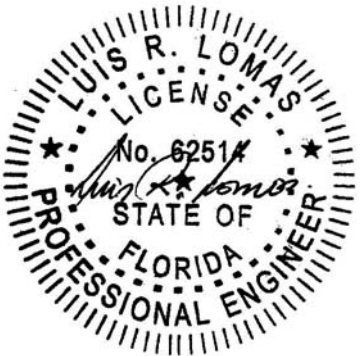
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
ELEVATION

DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 2 OF 34

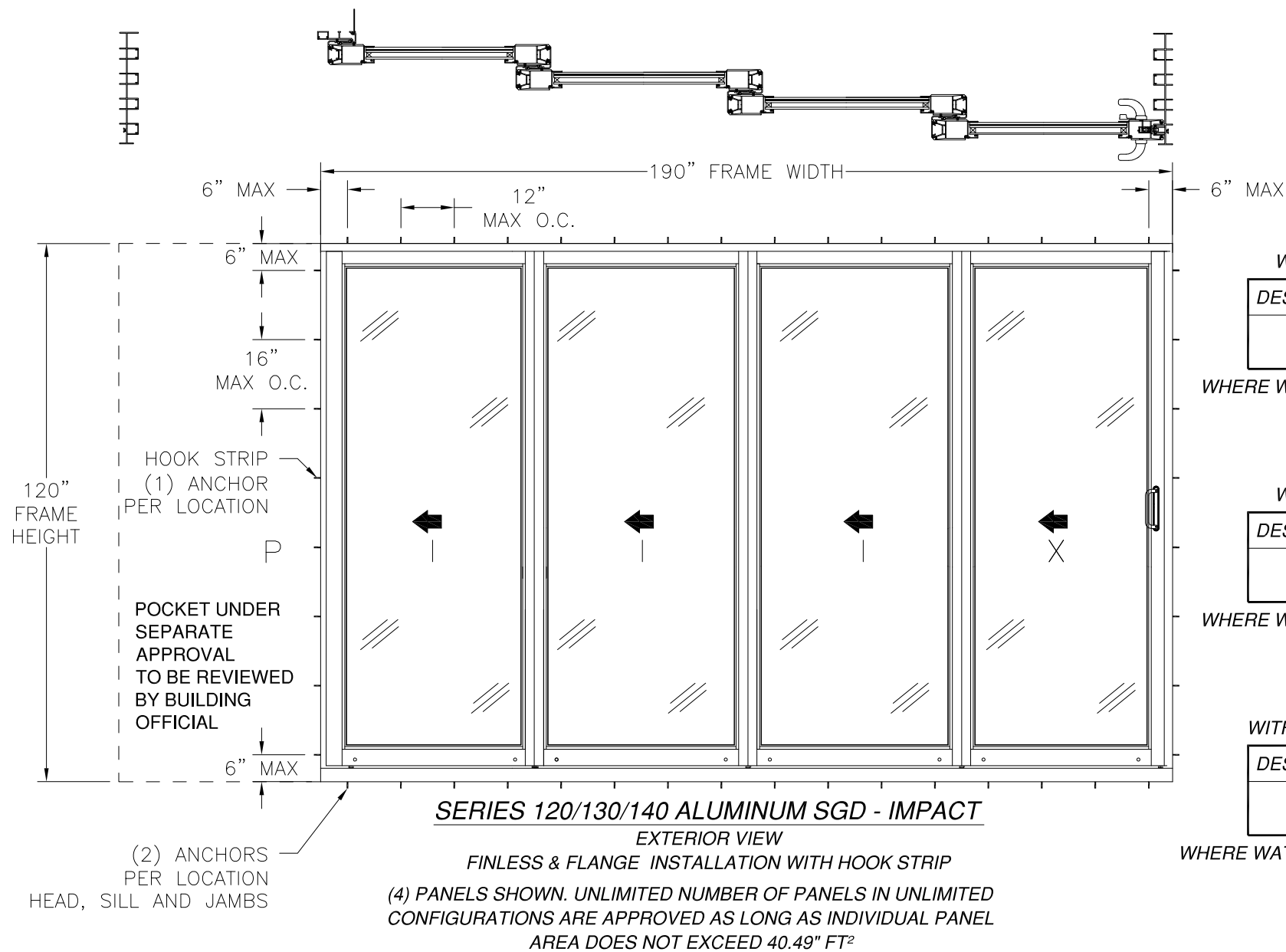
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WITH 2 5/8\" SILL EXTENDER AND GLASS A	
DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-55.0PSF	LARGE & SMALL MISSILE IMPACT
WHERE WATER PENETRATION RESISTANCE IS REQUIRED SEE CHART #1 SHEET 4	

WITH 2 5/8\" SILL EXTENDER AND GLASS B	
DESIGN PRESSURE RATING	IMPACT RATING
±27.1PSF	LARGE & SMALL MISSILE IMPACT
WHERE WATER PENETRATION RESISTANCE IS REQUIRED SEE CHART #4 SHEET 4	

WITH 3 1/2\" SILL EXTENDER AND GLASS A	
DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE & SMALL MISSILE IMPACT
WHERE WATER PENETRATION RESISTANCE IS REQUIRED SEE CHART #2 SHEET 4	

WITH 3 1/2\" SILL EXTENDER AND GLASS B	
DESIGN PRESSURE RATING	IMPACT RATING
±27.1PSF	LARGE & SMALL MISSILE IMPACT
WHERE WATER PENETRATION RESISTANCE IS REQUIRED SEE CHART #5 SHEET 4	

WITH 2 5/8\" & 3 1/2\" SILL EXTENDERS & GLASS A	
DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE & SMALL MISSILE IMPACT
WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED SEE CHART #3 SHEET 4	

WITH 2 5/8\" & 3 1/2\" SILL EXTENDERS & GLASS B	
DESIGN PRESSURE RATING	IMPACT RATING
±27.1PSF	LARGE & SMALL MISSILE IMPACT
WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED SEE CHART #6 SHEET 4	

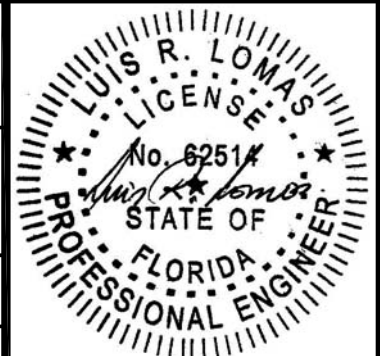
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SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT ELEVATION		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 3 OF 34
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Luis R. Lomas P.E.
FL No.: 62514

Chart #1

Design pressure rating for Units installed with 2 5/8" sill and glass A (psf)

Frame 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	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
84.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
90.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
96.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
102.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
108.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
114.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	-	-
120.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	-	-
126.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	53.8	-	-	-	-
132.0	45.0	55.0	45.0	55.0	45.0	53.8	45.0	46.6	-	-	-	-
138.0	45.0	55.0	45.0	55.0	45.0	47.0	40.7	40.7	-	-	-	-
144.0	45.0	55.0	45.0	49.1	41.2	41.2	-	-	-	-	-	-

Chart #2

Design pressure rating for Units installed with 3 1/2" sill and Glass A (psf)

Frame 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	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
84.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
90.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
96.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
102.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
108.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
114.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
120.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
126.0	55.0	55.0	55.0	55.0	55.0	55.0	53.8	53.8	-	-	-	-
132.0	55.0	55.0	55.0	55.0	53.8	53.8	46.6	46.6	-	-	-	-
138.0	55.0	55.0	55.0	55.0	47.0	47.0	40.7	40.7	-	-	-	-
144.0	55.0	55.0	49.1	49.1	41.2	41.2	-	-	-	-	-	-

Chart #3

Design pressure rating (psf)

For units installed with glass A & water penetration resistance is not required

Frame 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	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
84.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
90.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
96.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
102.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
108.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
114.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
120.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
126.0	55.0	55.0	55.0	55.0	55.0	55.0	53.8	53.8	-	-	-	-
132.0	55.0	55.0	55.0	55.0	53.8	53.8	46.6	46.6	-	-	-	-
138.0	55.0	55.0	55.0	55.0	47.0	47.0	40.7	40.7	-	-	-	-
144.0	55.0	55.0	49.1	49.1	41.2	41.2	-	-	-	-	-	-

Chart #4

Design pressure rating for Units installed with 2 5/8" sill and Glass B (psf)

Frame 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	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
84.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
90.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	52.8
96.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	49.5
102.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	51.2	45.0	45.3	41.7	41.7
108.0	45.0	55.0	45.0	55.0	45.0	49.1	42.8	42.8	37.8	37.8	34.7	34.7
114.0	45.0	55.0	45.0	49.3	41.6	41.6	36.2	36.2	31.8	31.8	-	-
120.0	45.0	52.2	42.1	42.1	35.5	35.5	30.8	30.8	27.1	27.1	-	-
126.0	45.0	45.0	36.3	36.3	30.6	30.6	26.5	26.5	-	-	-	-
132.0	39.1	39.1	31.5	31.5	26.5	26.5	23.0	23.0	-	-	-	-
138.0	34.2	34.2	27.5	27.5	23.1	23.1	20.0	20.0	-	-	-	-
144.0	30.0	30.0	24.2	24.2	20.3	20.3	-	-	-	-	-	-

Chart #5

Design pressure rating for Units installed with 3 1/2" sill and Glass B (psf)

Frame 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	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
84.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
90.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	52.8	52.8
96.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	49.5	49.5
102.0	55.0	55.0	55.0	55.0	55.0	55.0	51.2	51.2	45.3	45.3	41.7	41.7
108.0	55.0	55.0	55.0	55.0	49.1	49.1	42.8	42.8	37.8	37.8	34.7	34.7
114.0	55.0	55.0	49.3	49.3	41.6	41.6	36.2	36.2	31.8	31.8	-	-
120.0	52.2	52.2	42.1	42.1	35.5	35.5	30.8	30.8	27.1	27.1	-	-
126.0	45.0	45.0	36.3	36.3	30.6	30.6	26.5	26.5	-	-	-	-
132.0	39.1	39.1	31.5	31.5	26.5	26.5	23.0	23.0	-	-	-	-
138.0	34.2	34.2	27.5	27.5	23.1	23.1	20.0	20.0	-	-	-	-
144.0	30.0	30.0	24.2	24.2	20.3	20.3	-	-	-	-	-	-

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Chart #6

Design pressure rating (psf)

For units installed with glass B & water penetration resistance is not required

Frame 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	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
84.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
90.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	52.8	52.8
96.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	49.5	49.5
102.0	55.0	55.0	55.0	55.0	55.0	55.0	51.2	51.2	45.3	45.3	41.7	41.7
108.0	55.0	55.0	55.0	55.0	49.1	49.1	42.8	42.8	37.8	37.8	34.7	34.7
114.0	55.0	55.0	49.3	49.3	41.6	41.6	36.2	36.2	31.8	31.8	-	-
120.0	52.2	52.2	42.1	42.1	35.5	35.5	30.8	30.8	27.1	27.1	-	-
126.0	45.0	45.0	36.3	36.3	30.6	30.6	26.5	26.5	-	-	-	-
132.0	39.1	39.1	31.5	31.5	26.5	26.5	23.0	23.0	-	-	-	-
138.0	34.2	34.2	27.5	27.5	23.1	23.1	20.0	20.0	-	-	-	-
144.0	30.0	30.0	24.2	24.2	20.3	20.3	-	-	-	-	-	-

MI WINDOWS AND DOORS LLC

650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
DESIGN PRESSURE CHARTS

DRAWN: A.R.

DWG NO. 08-03321

REV A

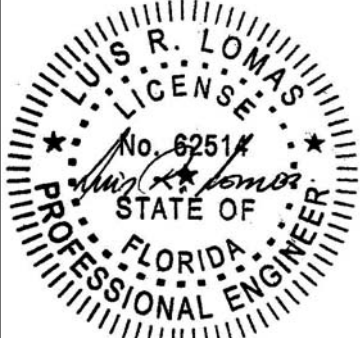
SCALE NTS

DATE 09/19/18

SHEET 4 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

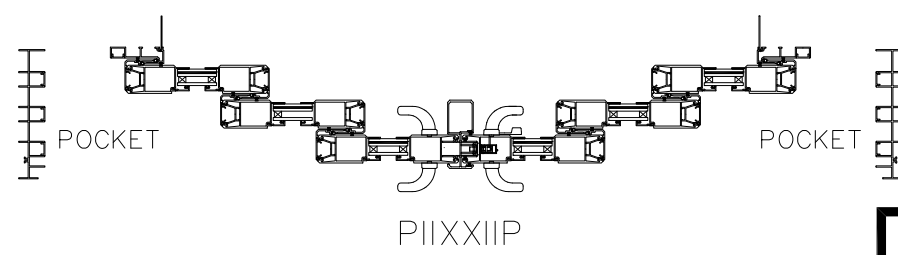
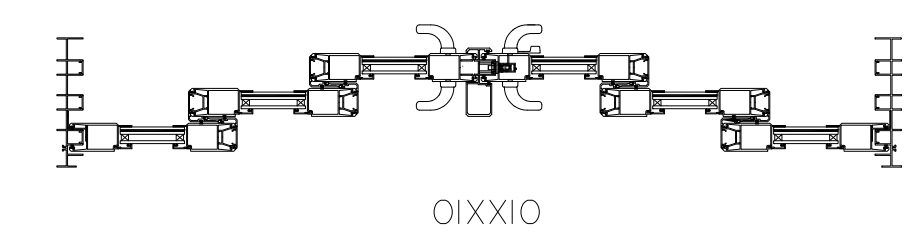
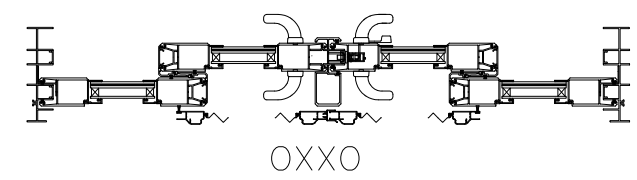
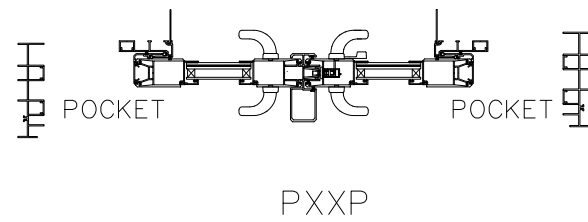
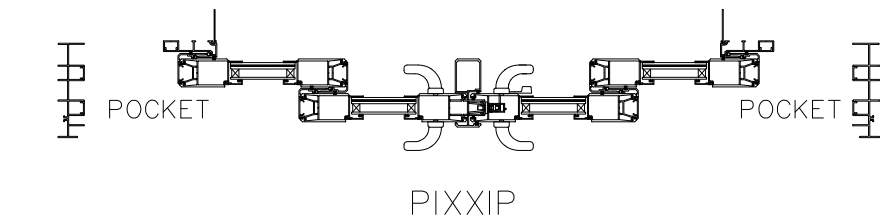
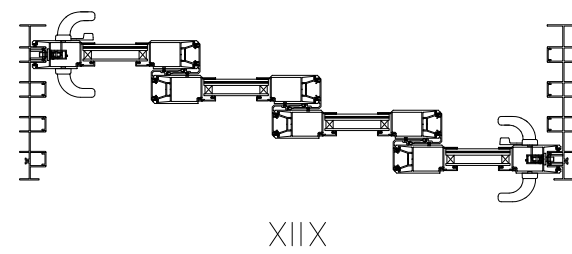
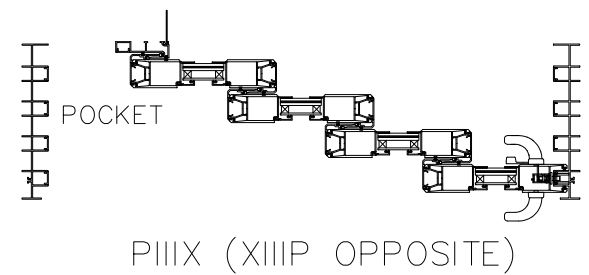
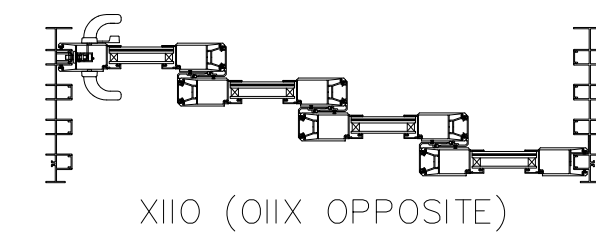
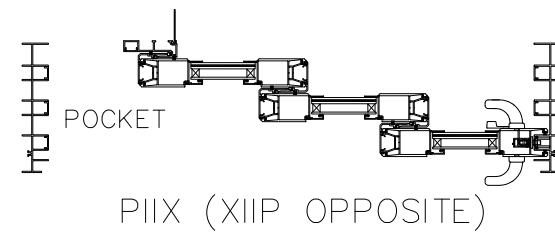
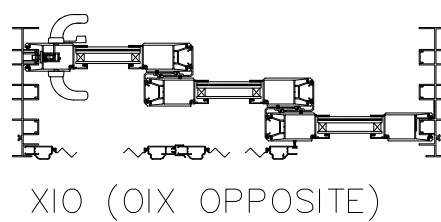
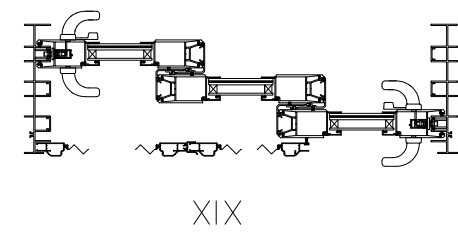
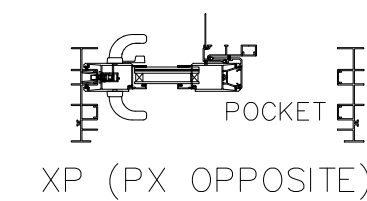
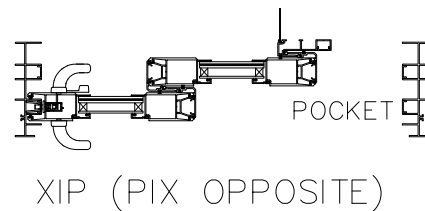
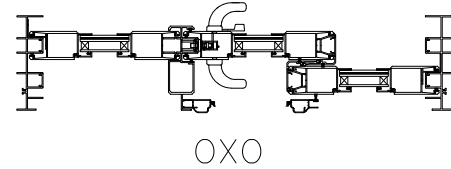
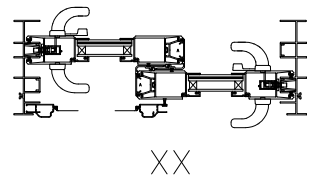
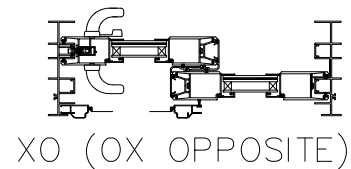
SIGNED: 11/03/2022



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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



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PANELS MAY BE MIXED & MATCHED AS
NECESSARY

SIGNED: 11/03/2022

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

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
FINLESS PLAN VIEWS

DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 5 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

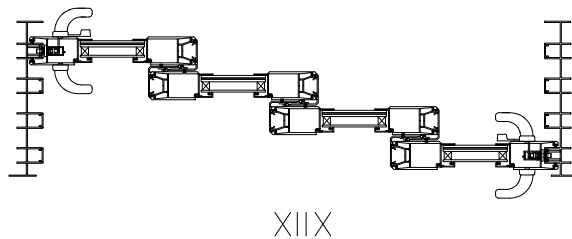
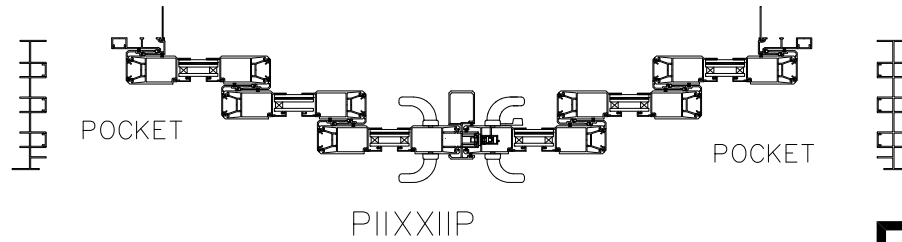
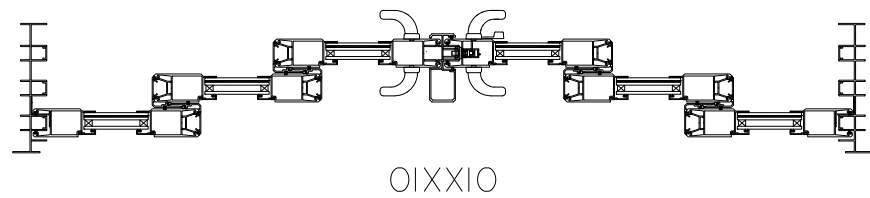
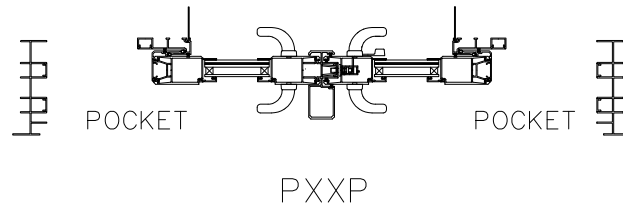
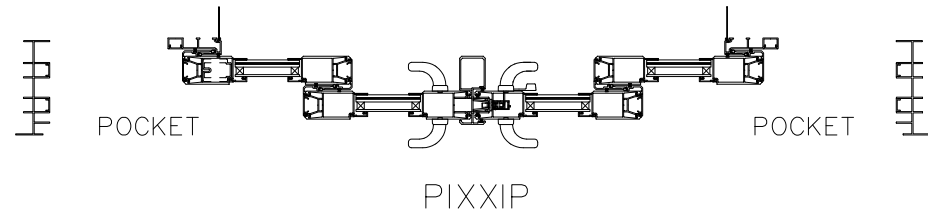
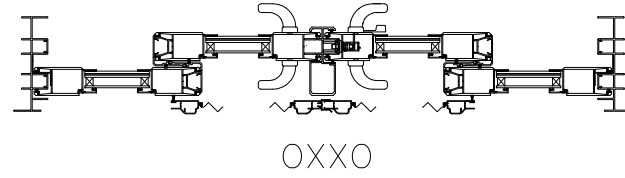
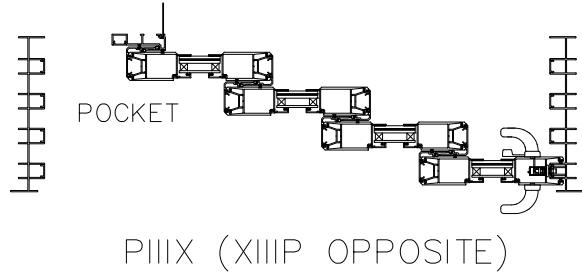
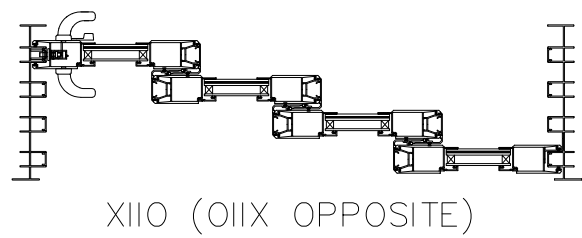
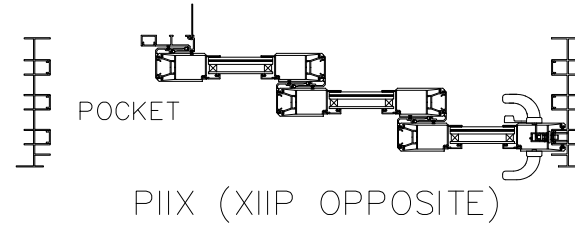
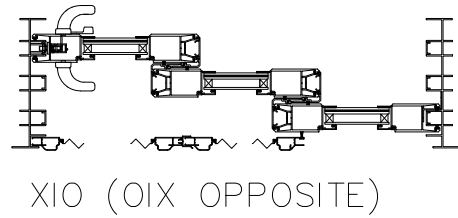
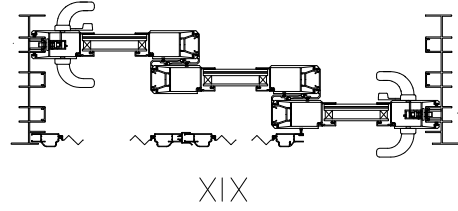
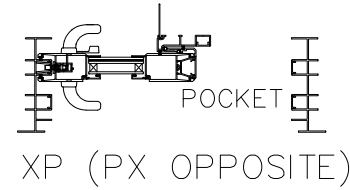
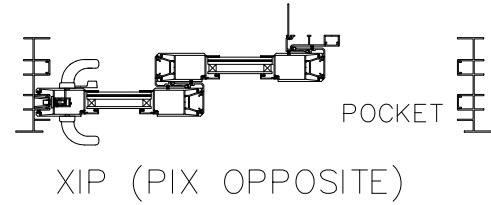
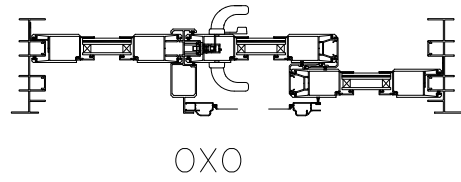
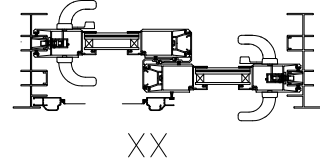
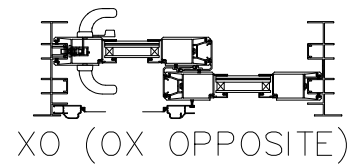
LUIS R. LOMAS
No. 62514
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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





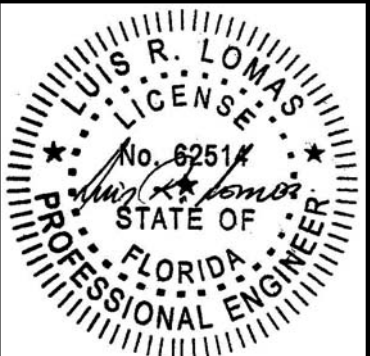
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



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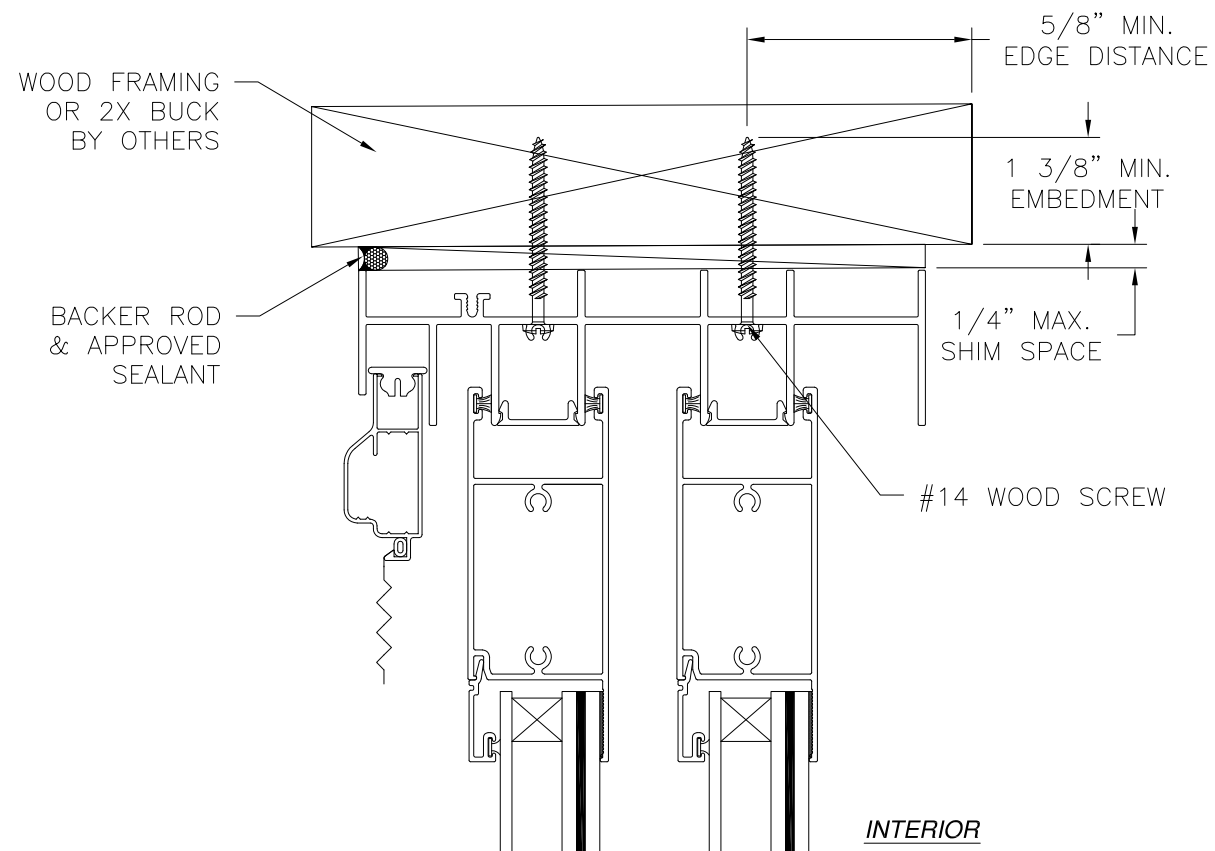
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SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT FLANGE PLAN VIEWS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 6 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/03/2022



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



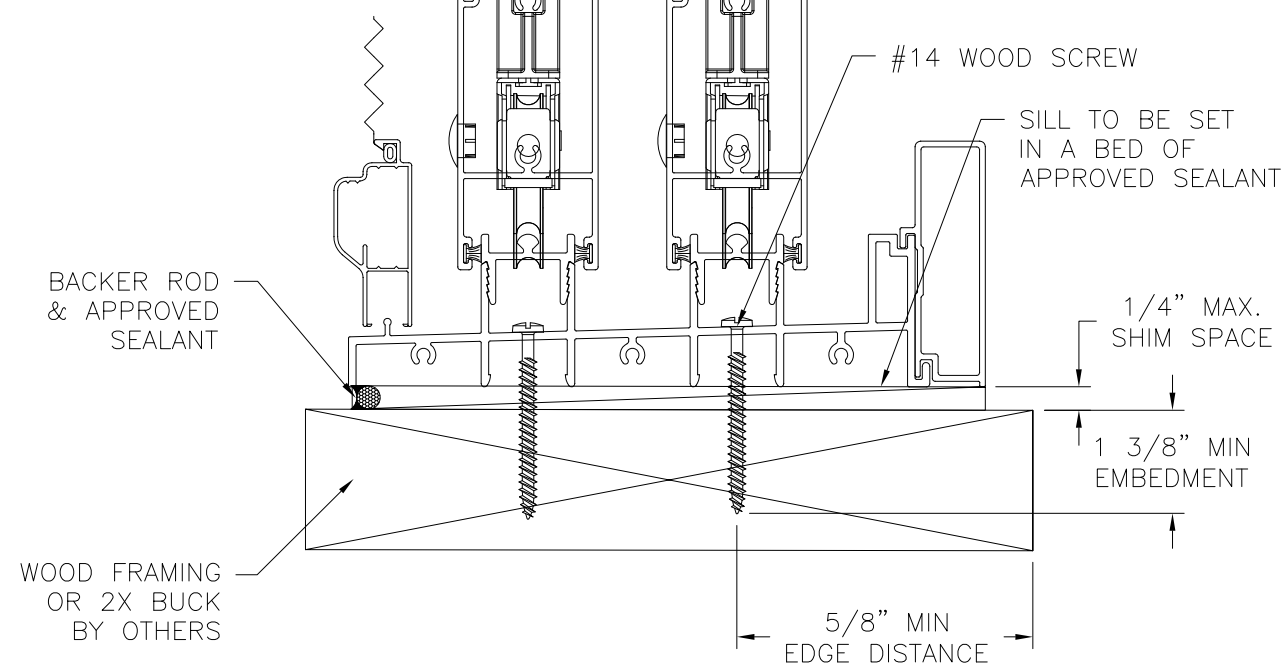


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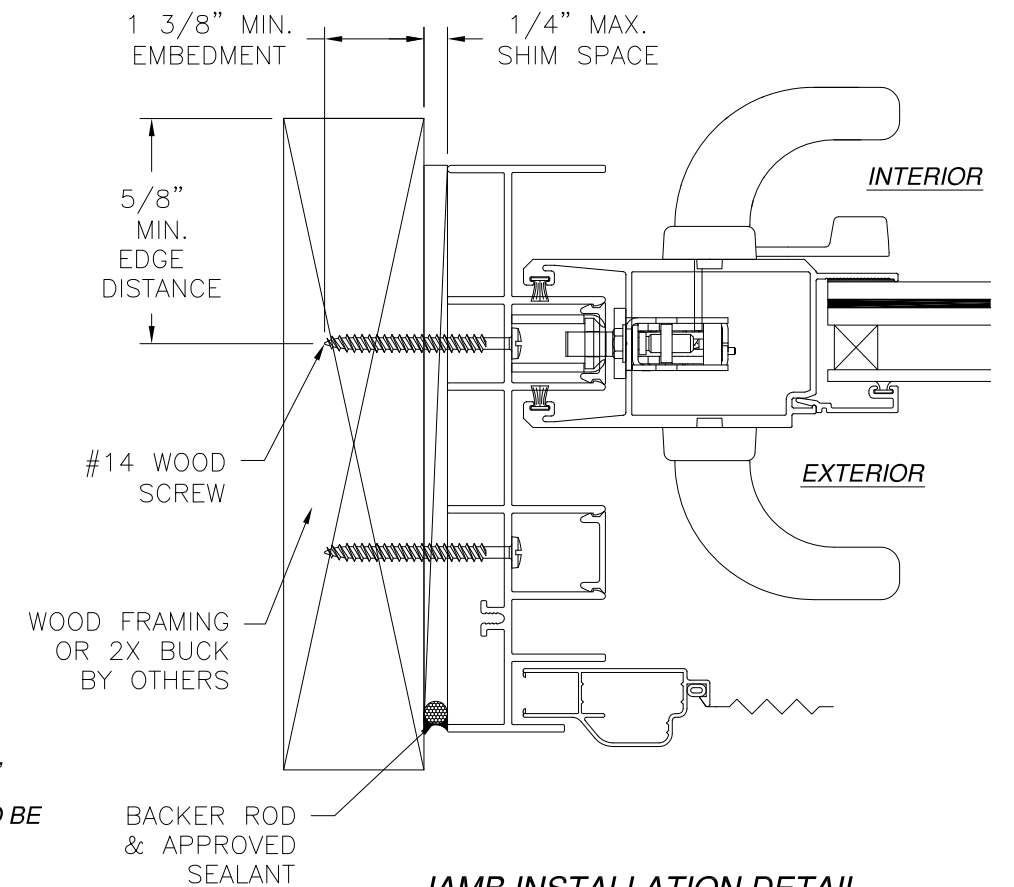
NOTES:

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 GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

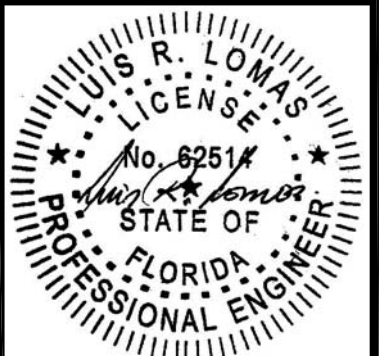
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
2 TRACK FINLESS INSTALLATION DETAILS

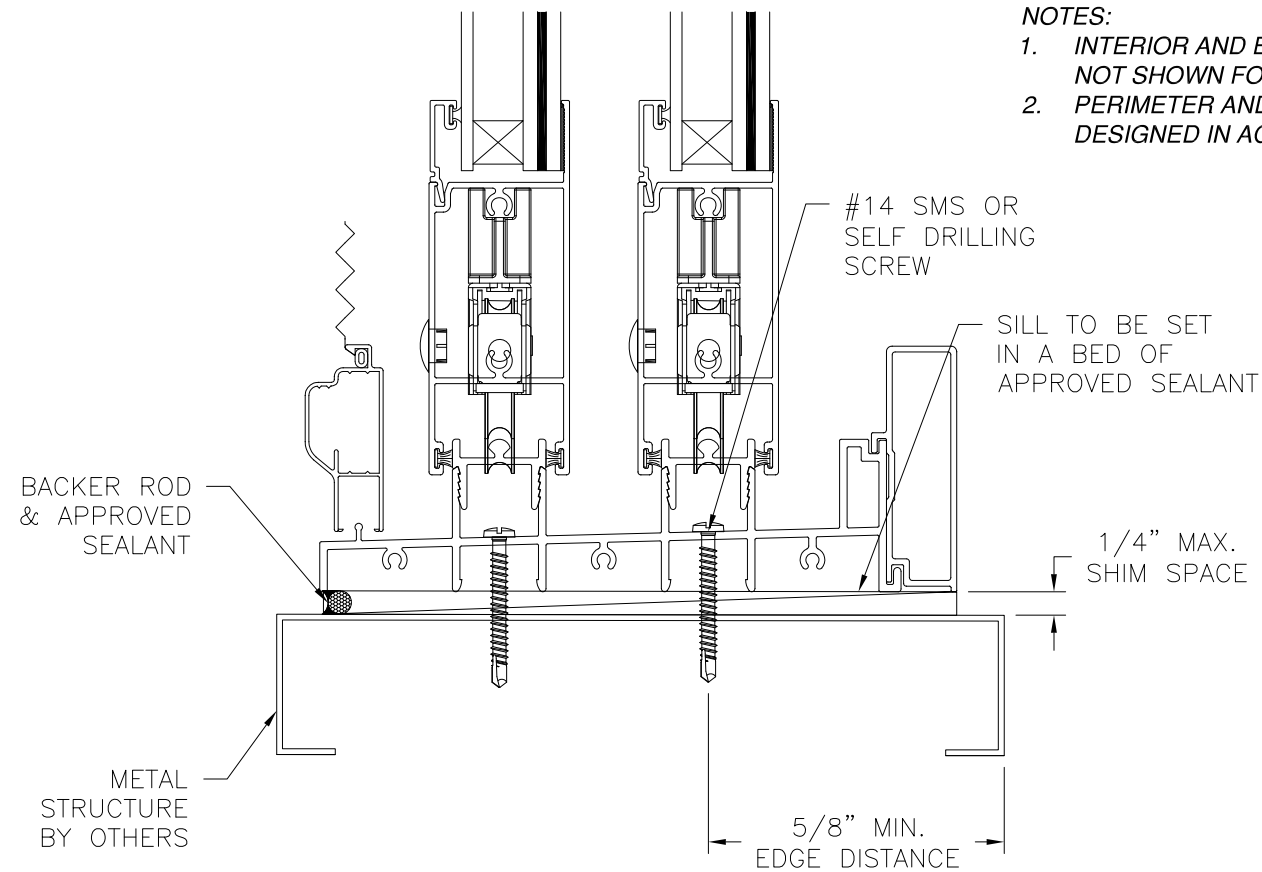
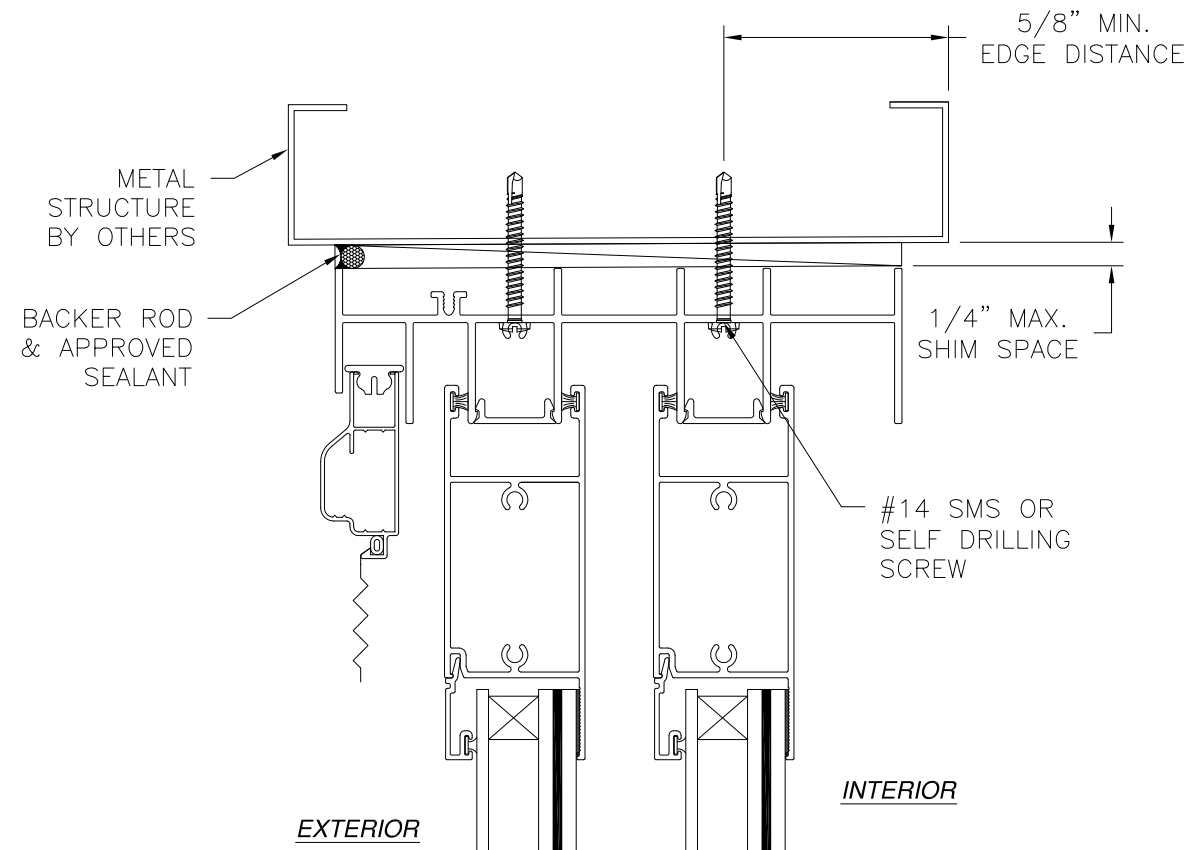
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SCALE NTS	DATE 09/19/18	SHEET 7 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

SIGNED: 11/03/2022



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

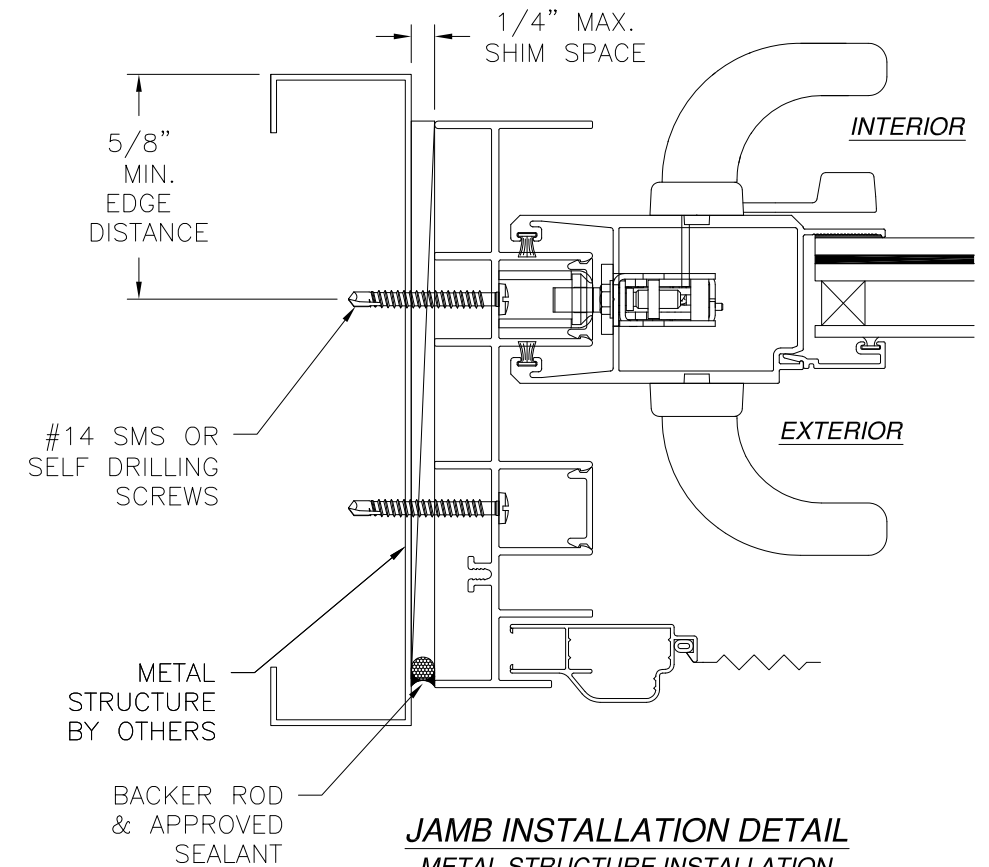


VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

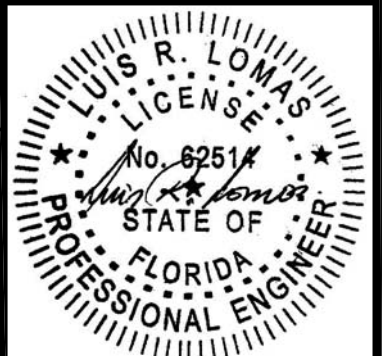
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
2 TRACK FINLESS INSTALLATION DETAILS

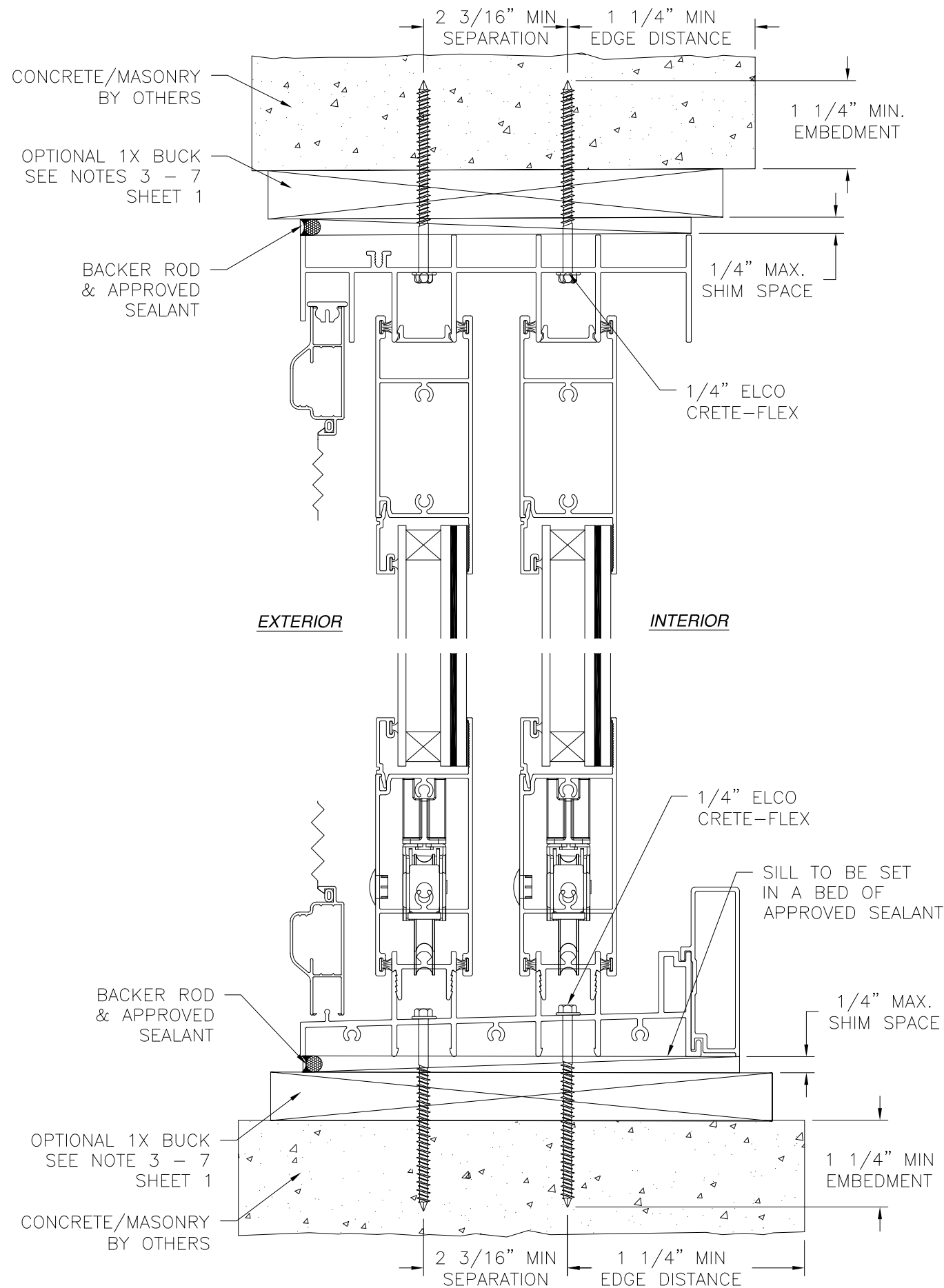
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SCALE NTS	DATE 09/19/18	SHEET 8 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

SIGNED: 11/03/2022

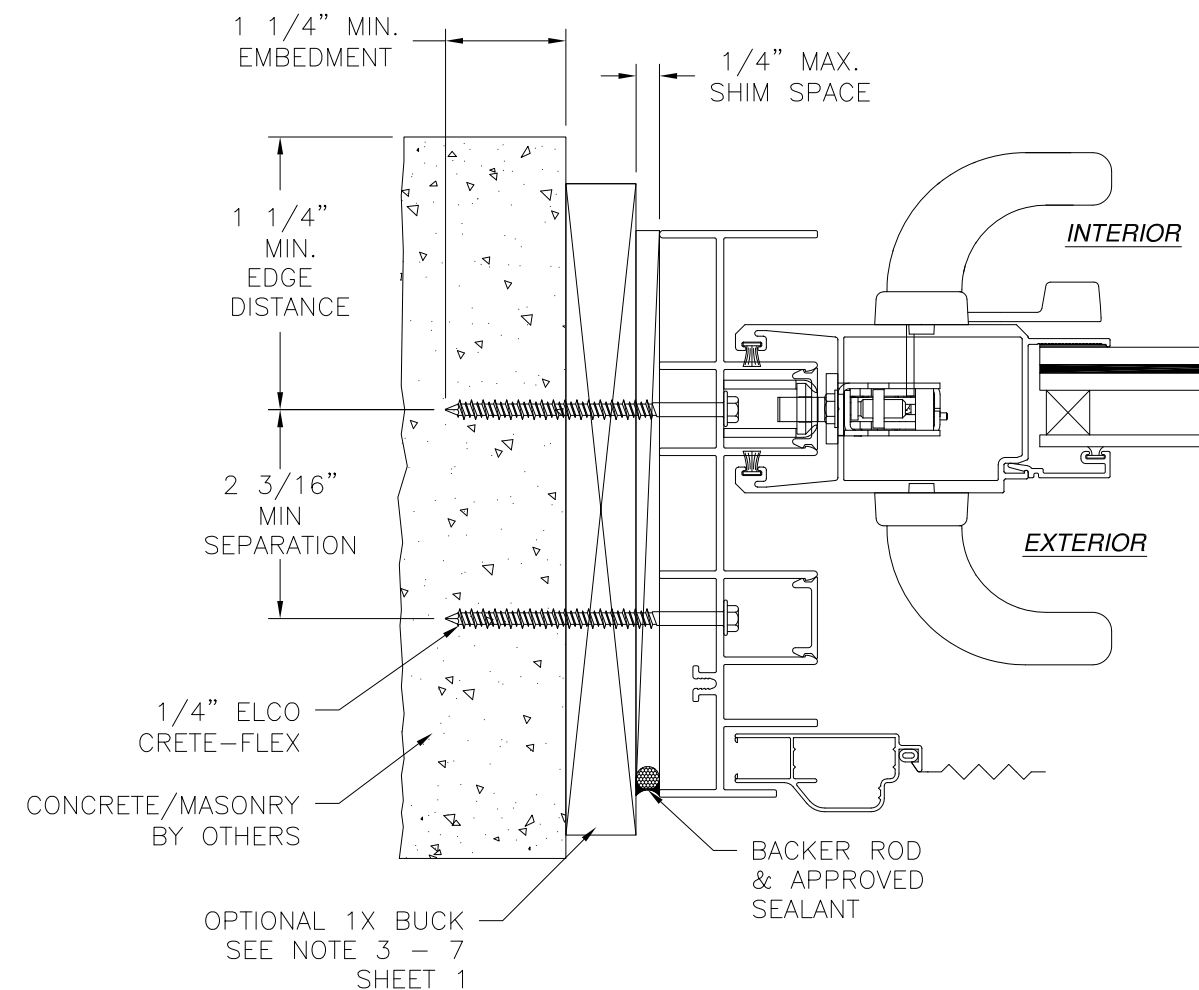


Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



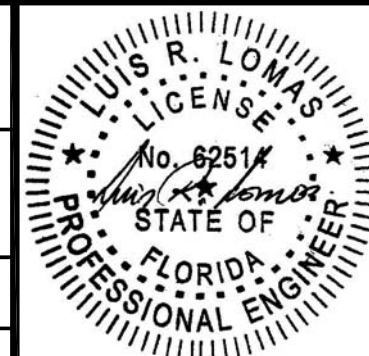
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CONCRETE/MASONRY INSTALLATION

NOTES:

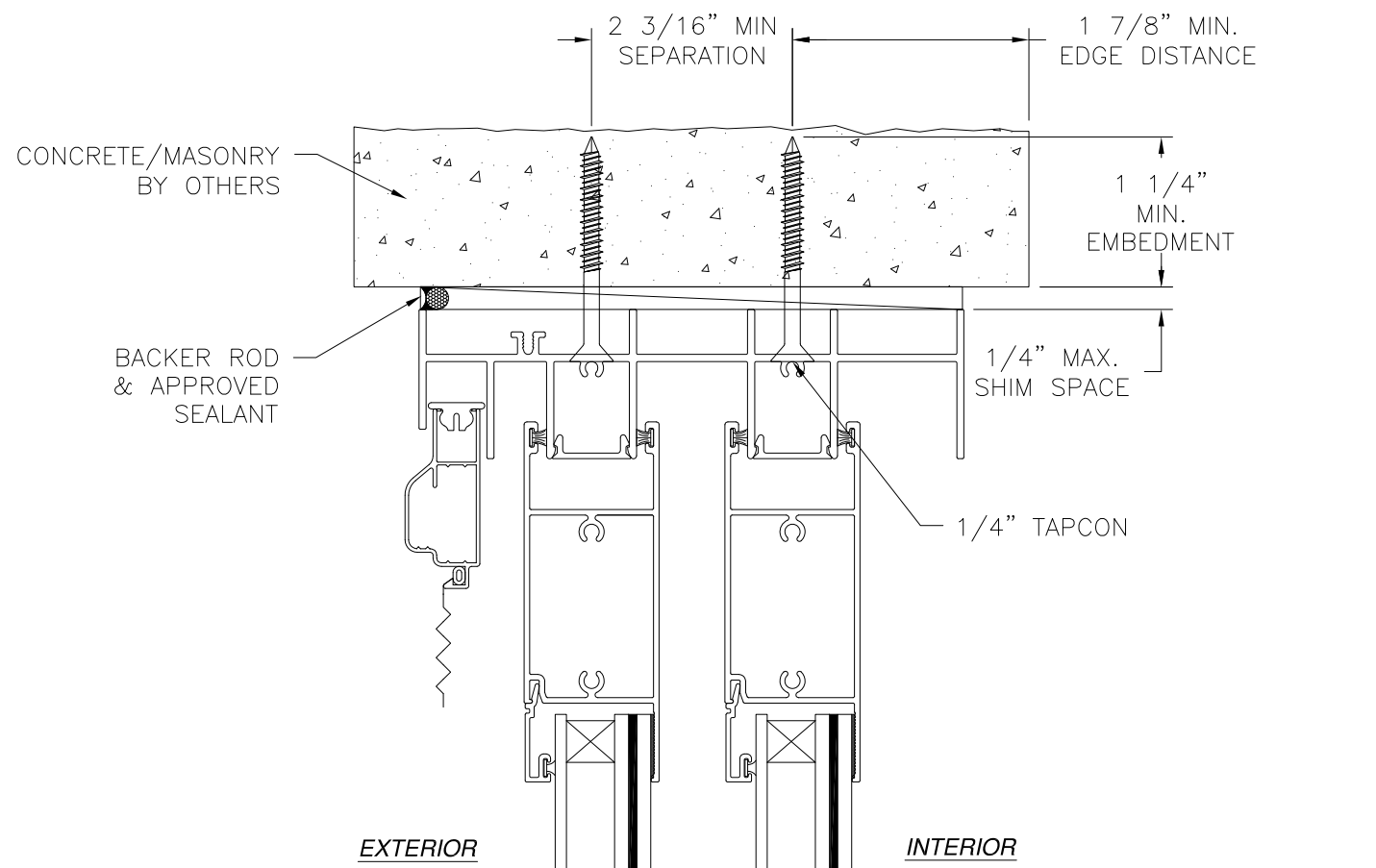
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 2 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 9 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

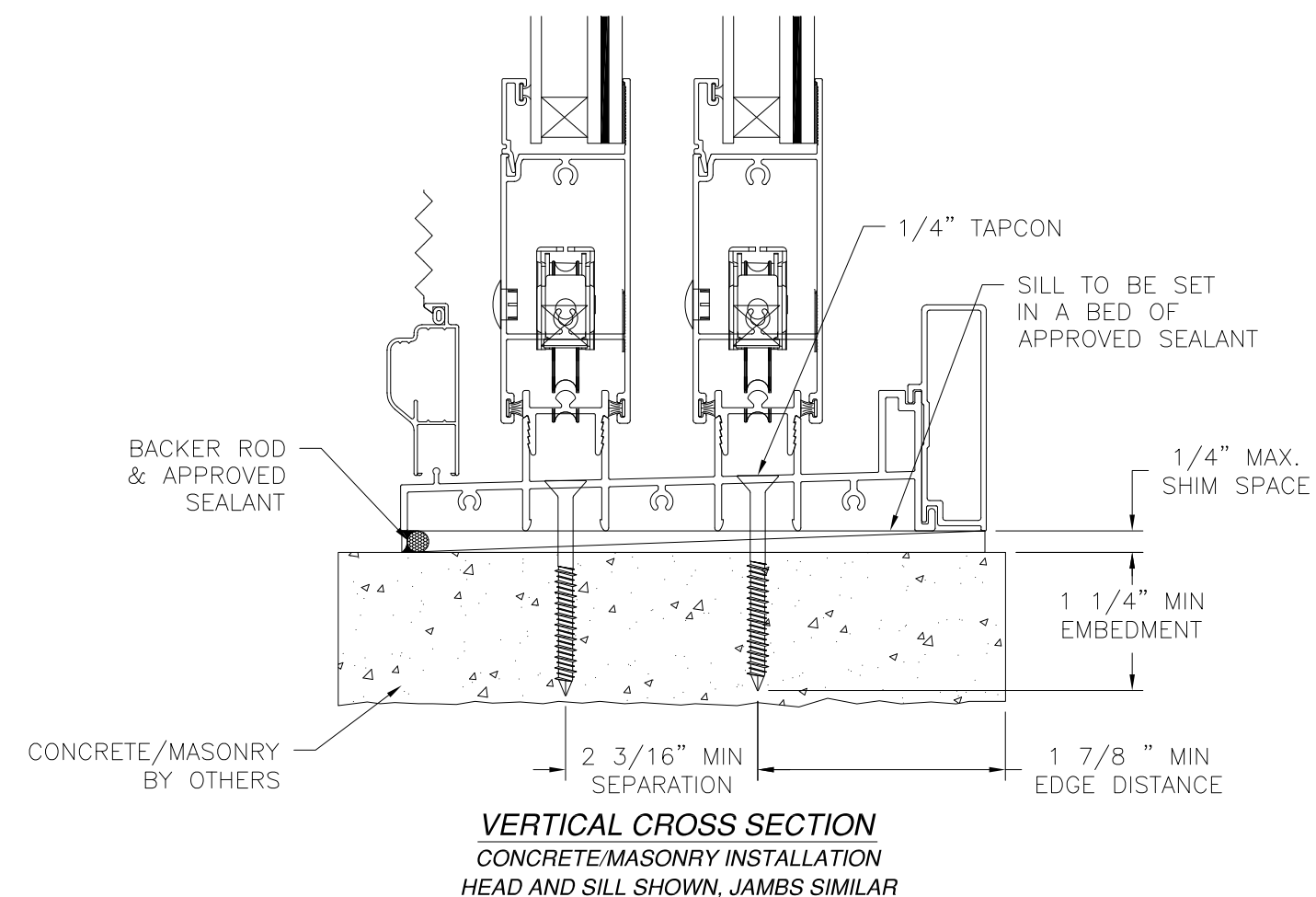


Luis R. Lomas P.E.
FL No.: 62514



NOTES:

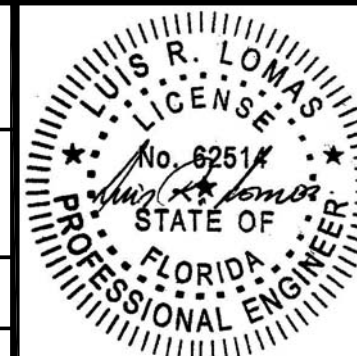
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



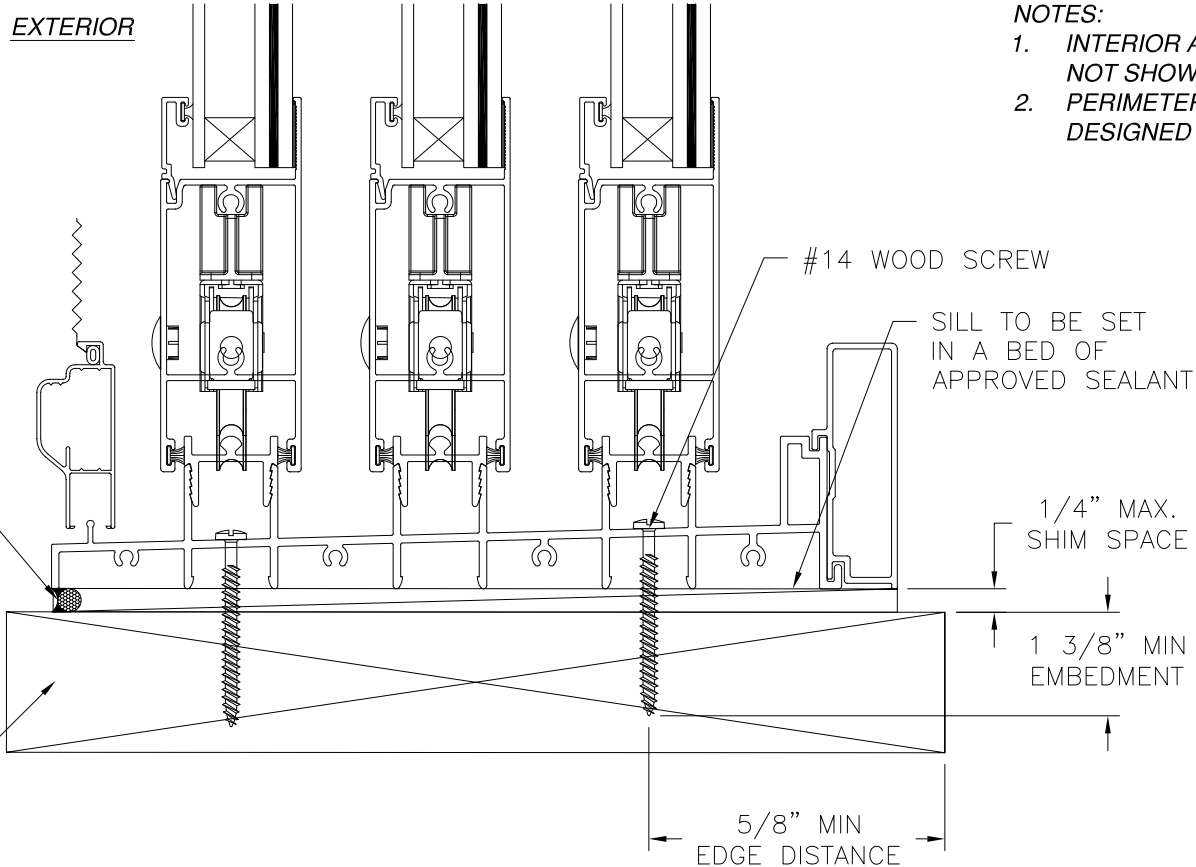
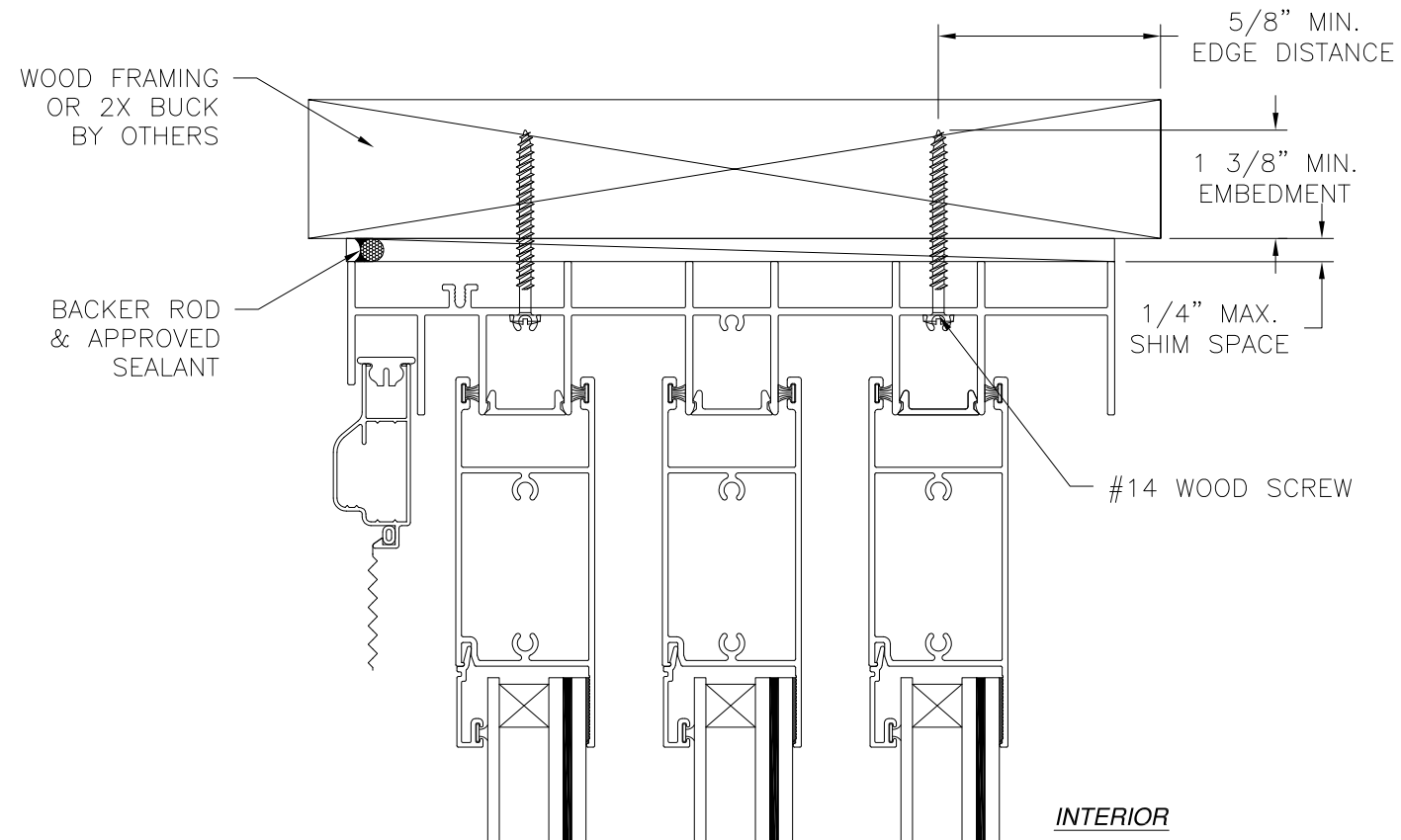
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 2 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 10 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/03/2022



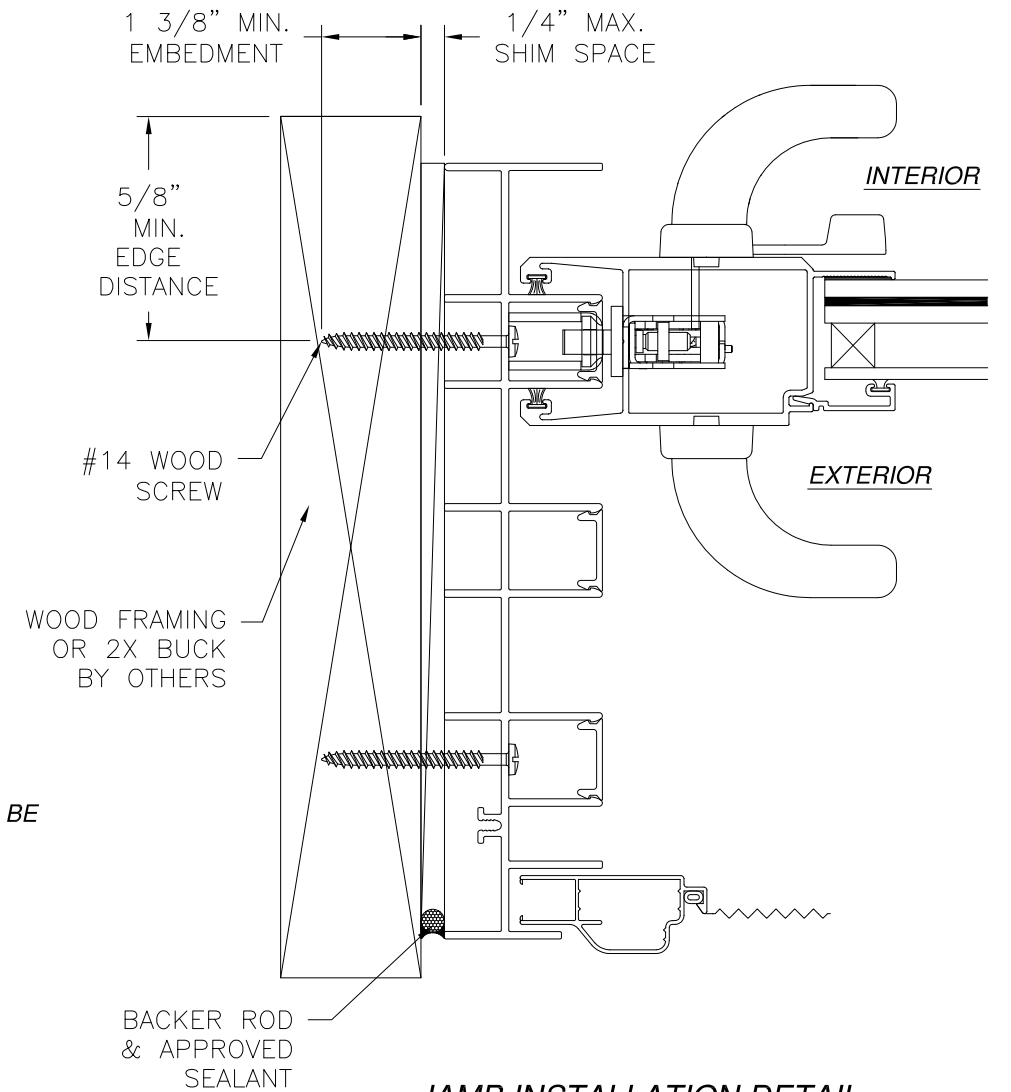
Luis R. Lomas P.E.
FL No.: 62514



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

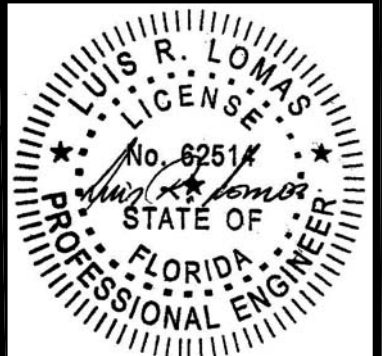
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



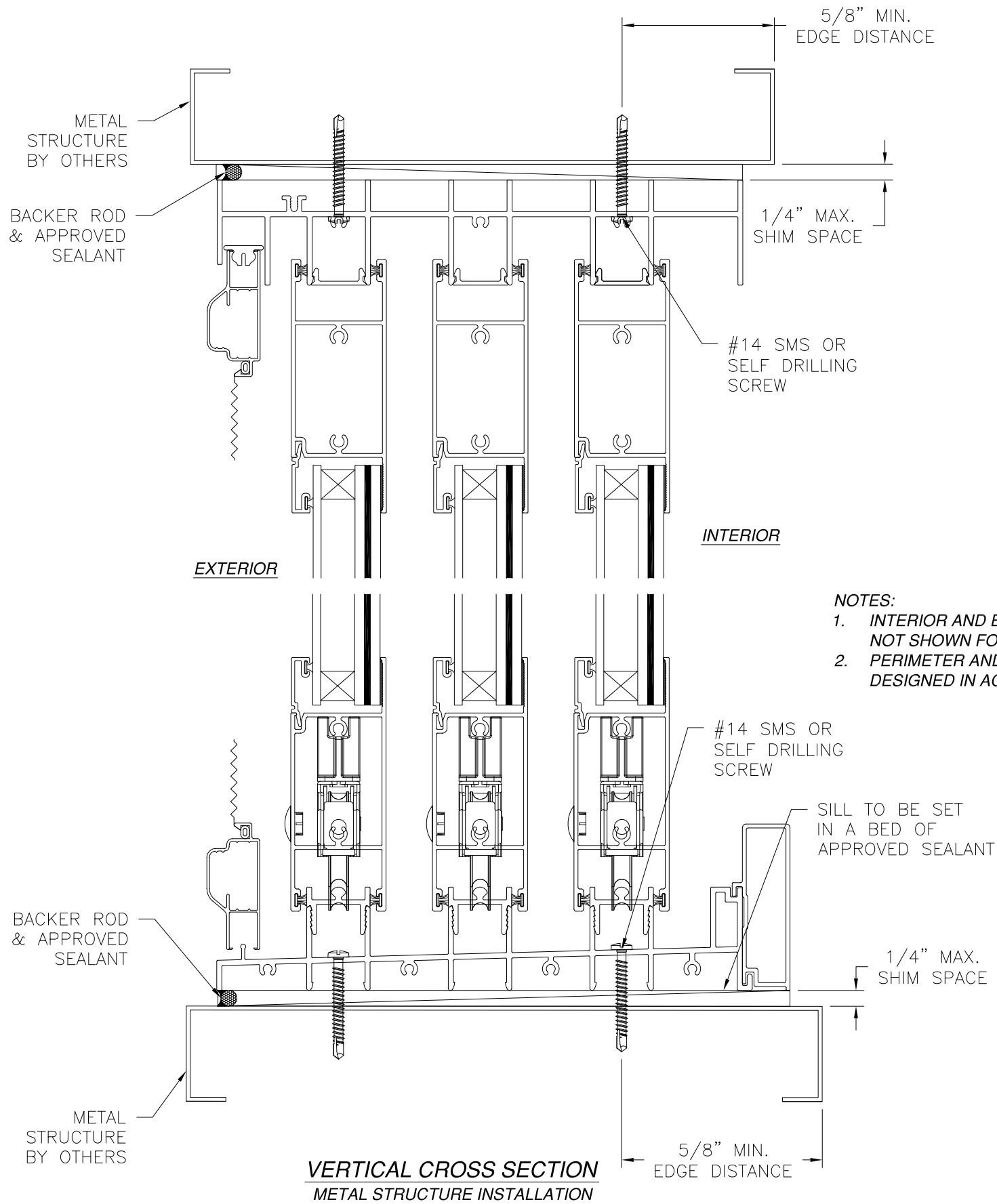
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 11 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/03/2022

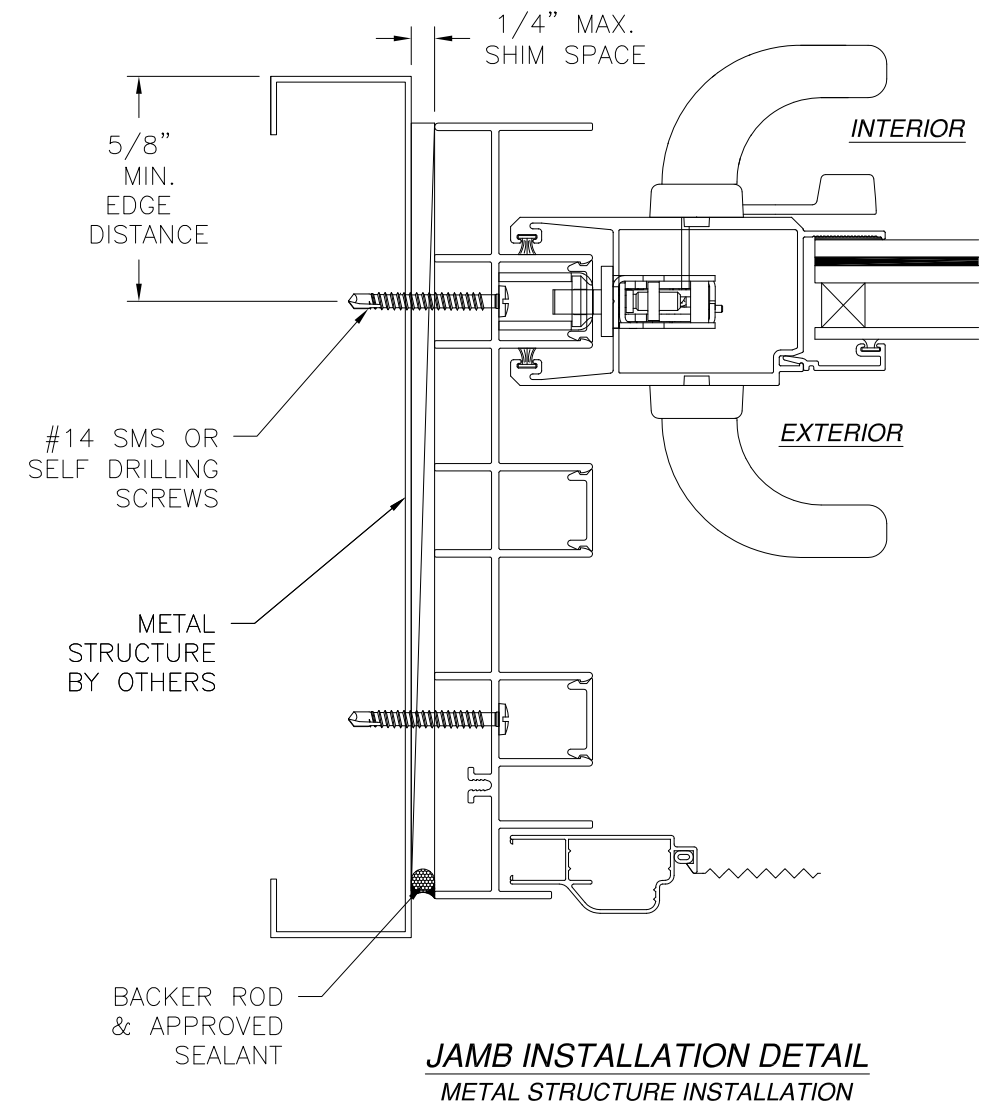


Luis R. Lomas P.E.
FL No.: 62514



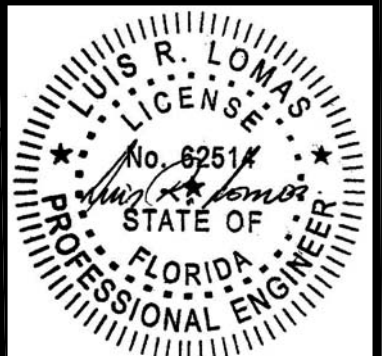
- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

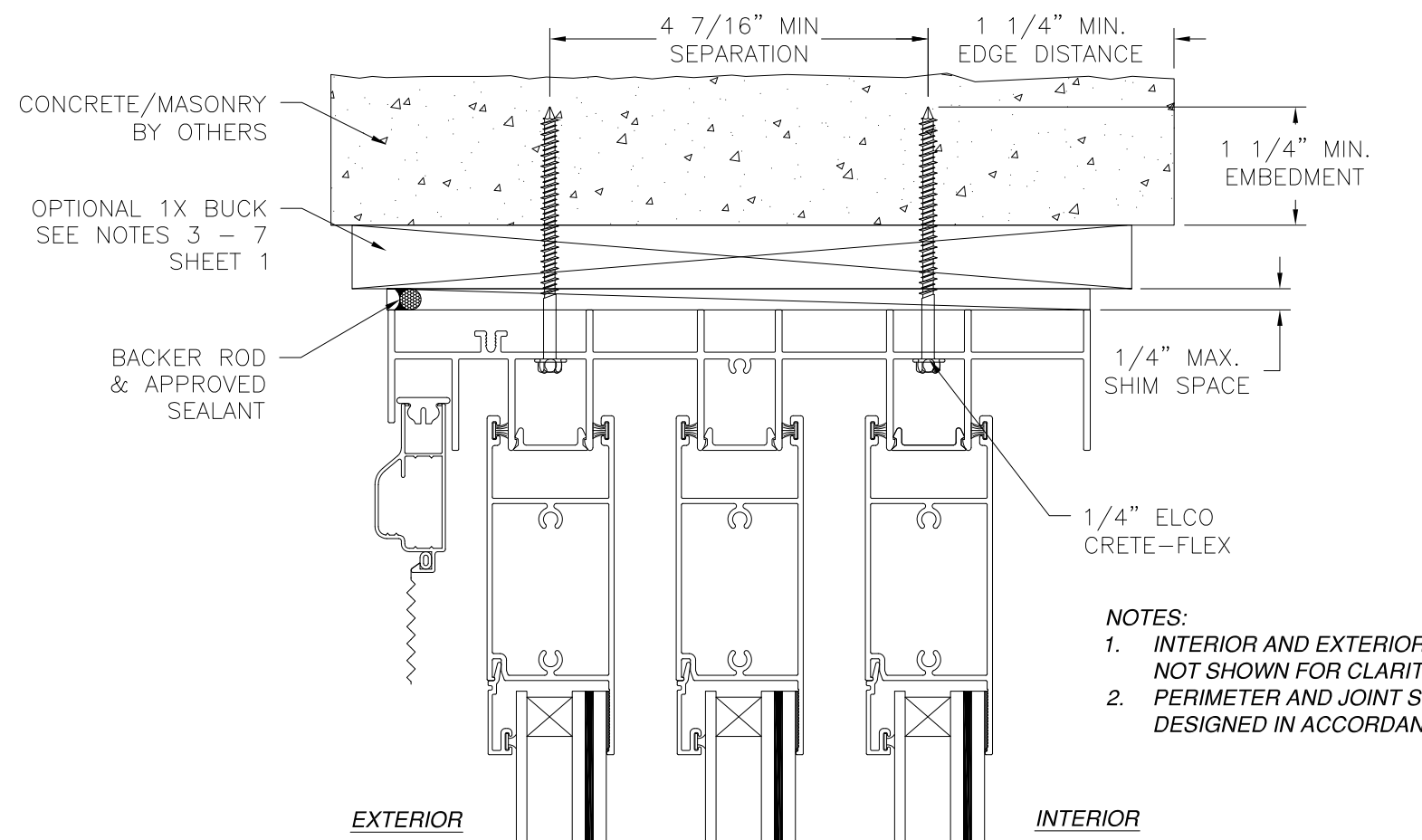


MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 12 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

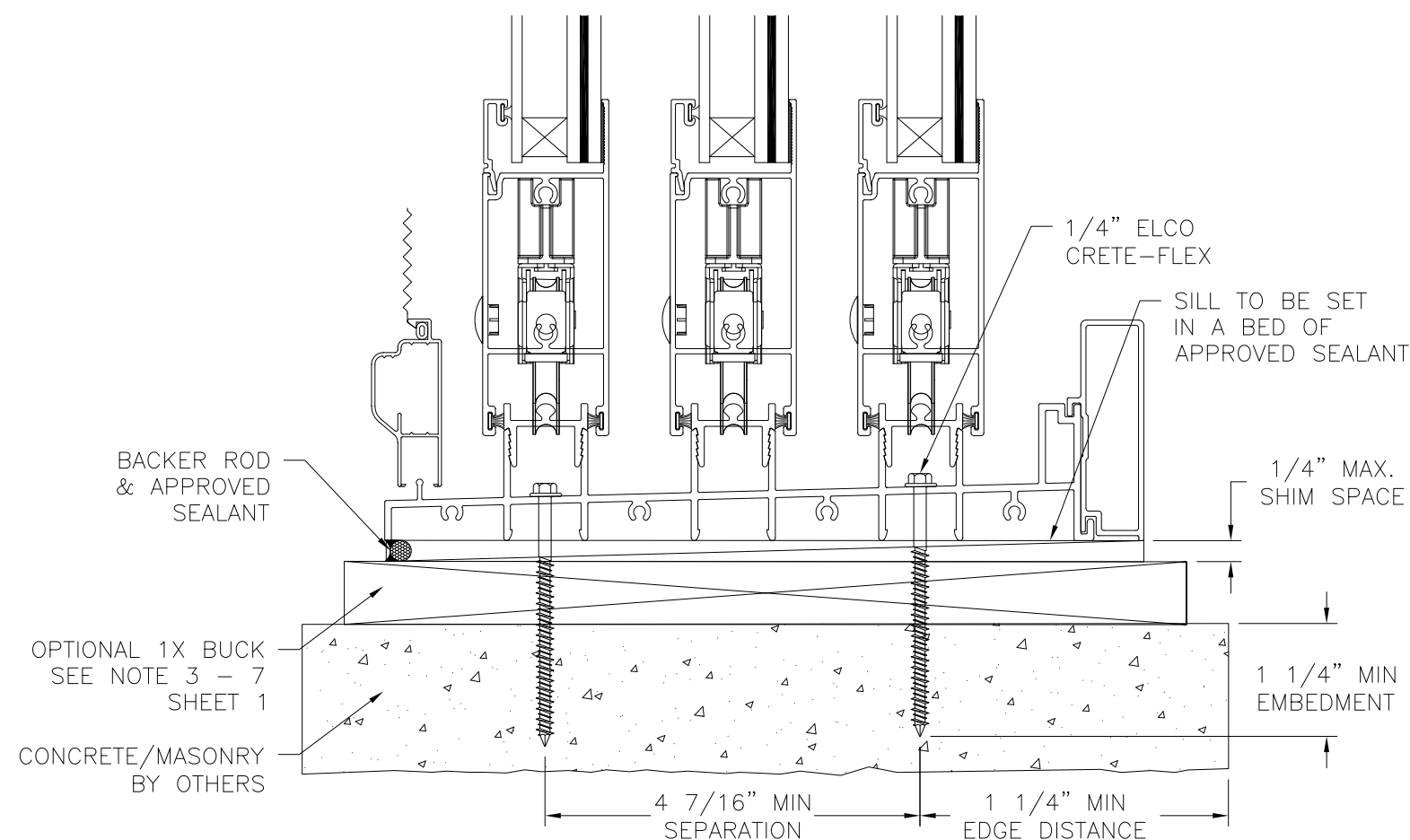
SIGNED: 11/03/2022



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

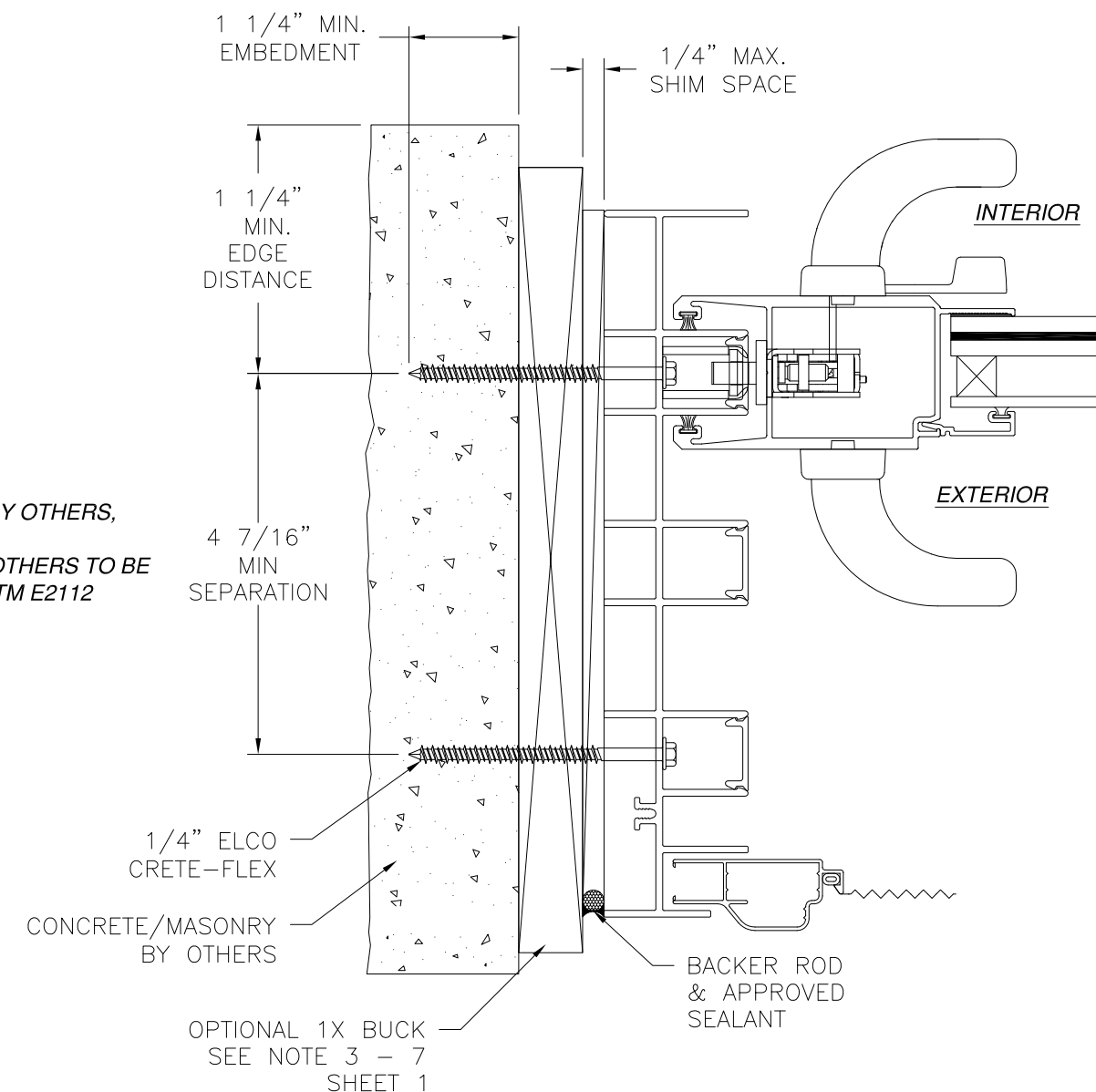


- NOTES:**
1. *INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.*
 2. *PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112*



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



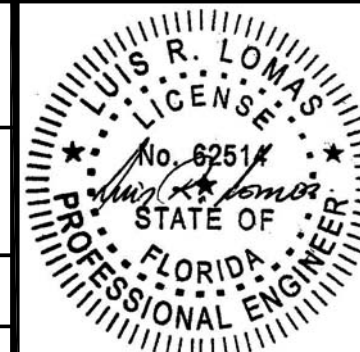
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION **SIGNED: 11/03/2022**

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

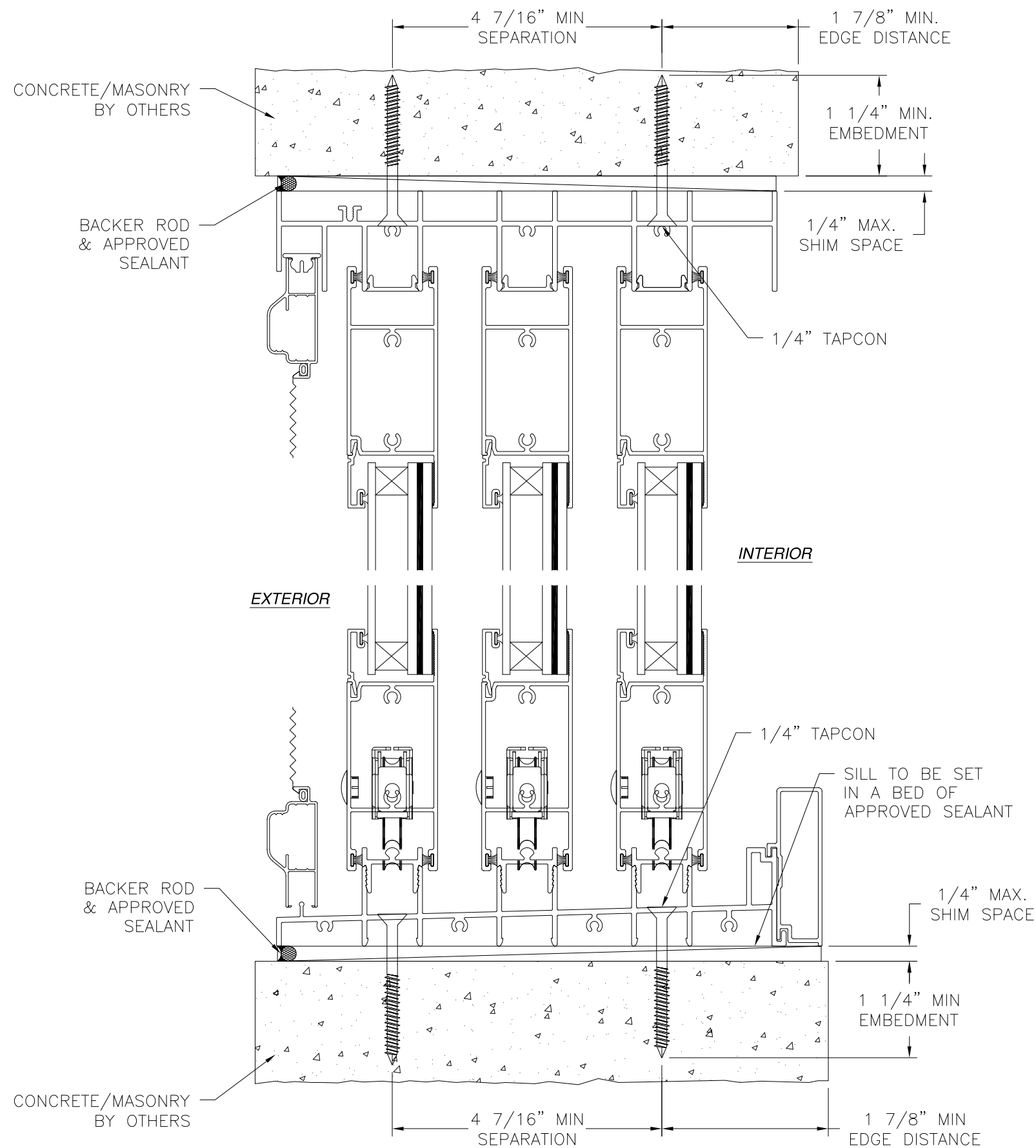
SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
3 TRACK FINLESS INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 13 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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



VERTICAL CROSS SECTION
 CONCRETE/MASONRY INSTALLATION
 HEAD AND SILL SHOWN, JAMBS SIMILAR

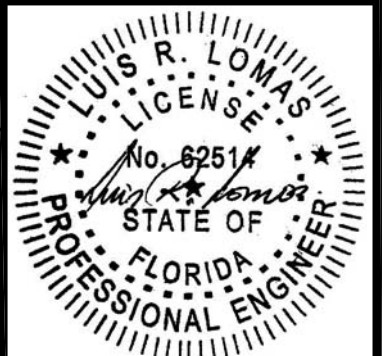
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

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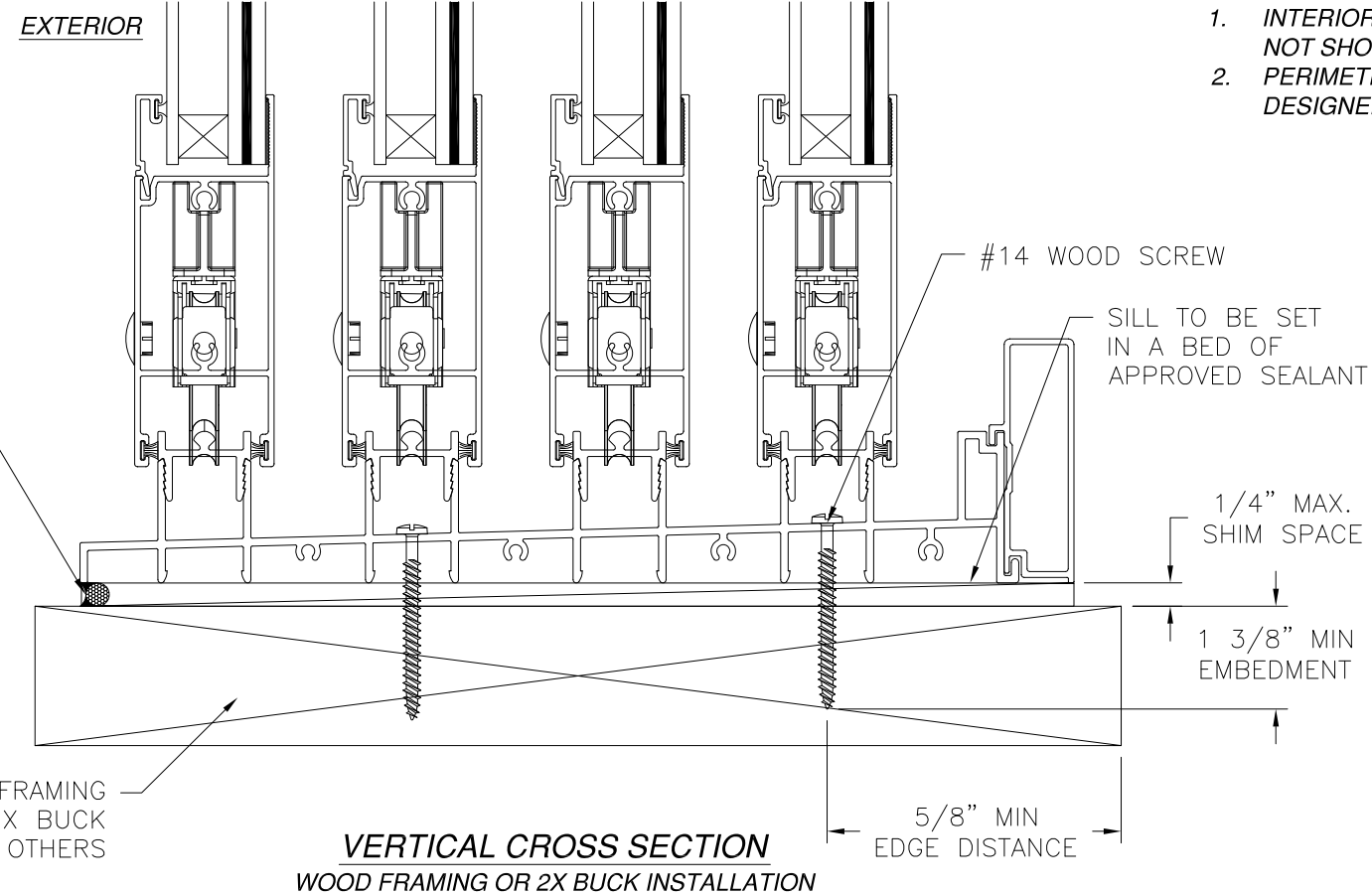
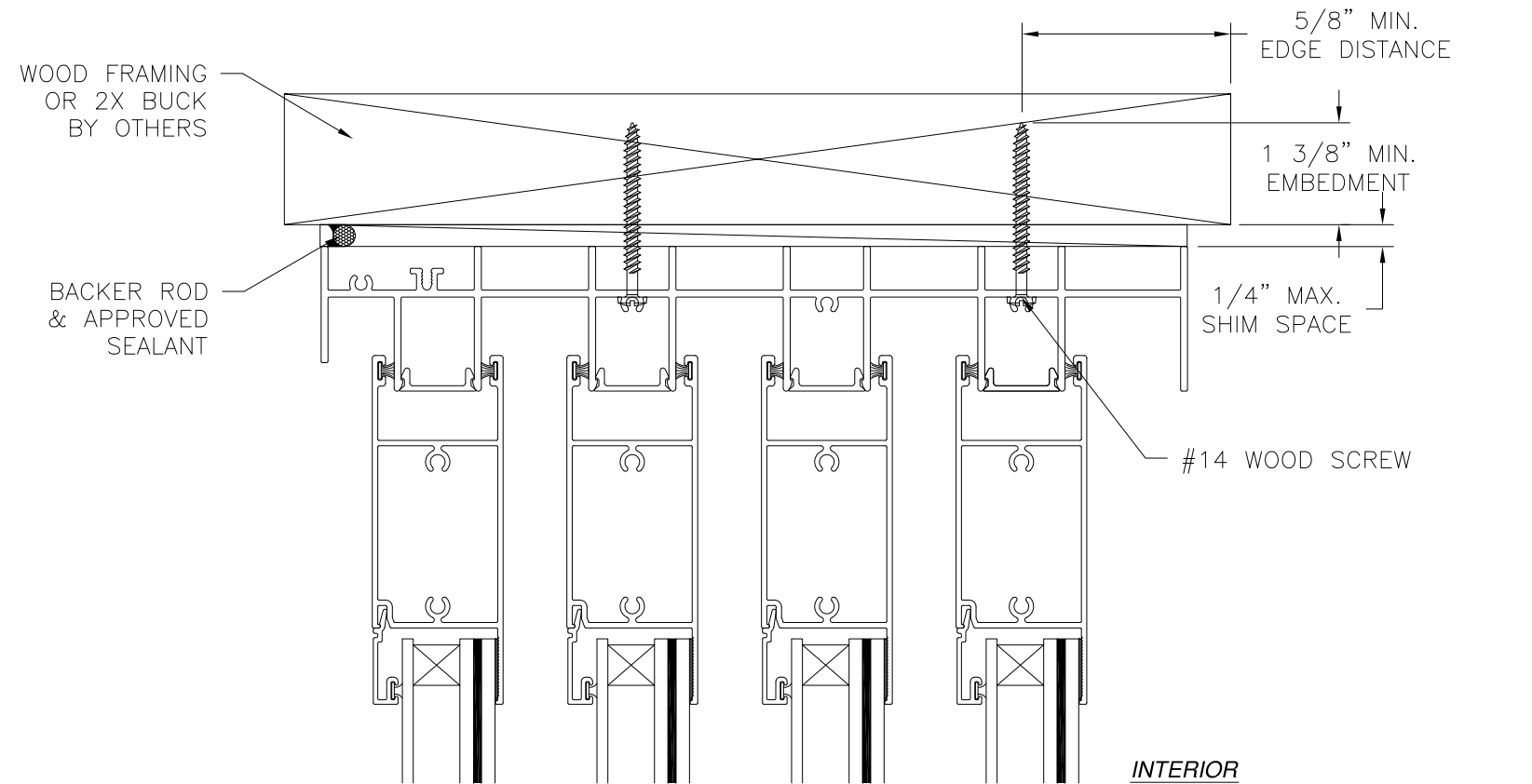
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 14 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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

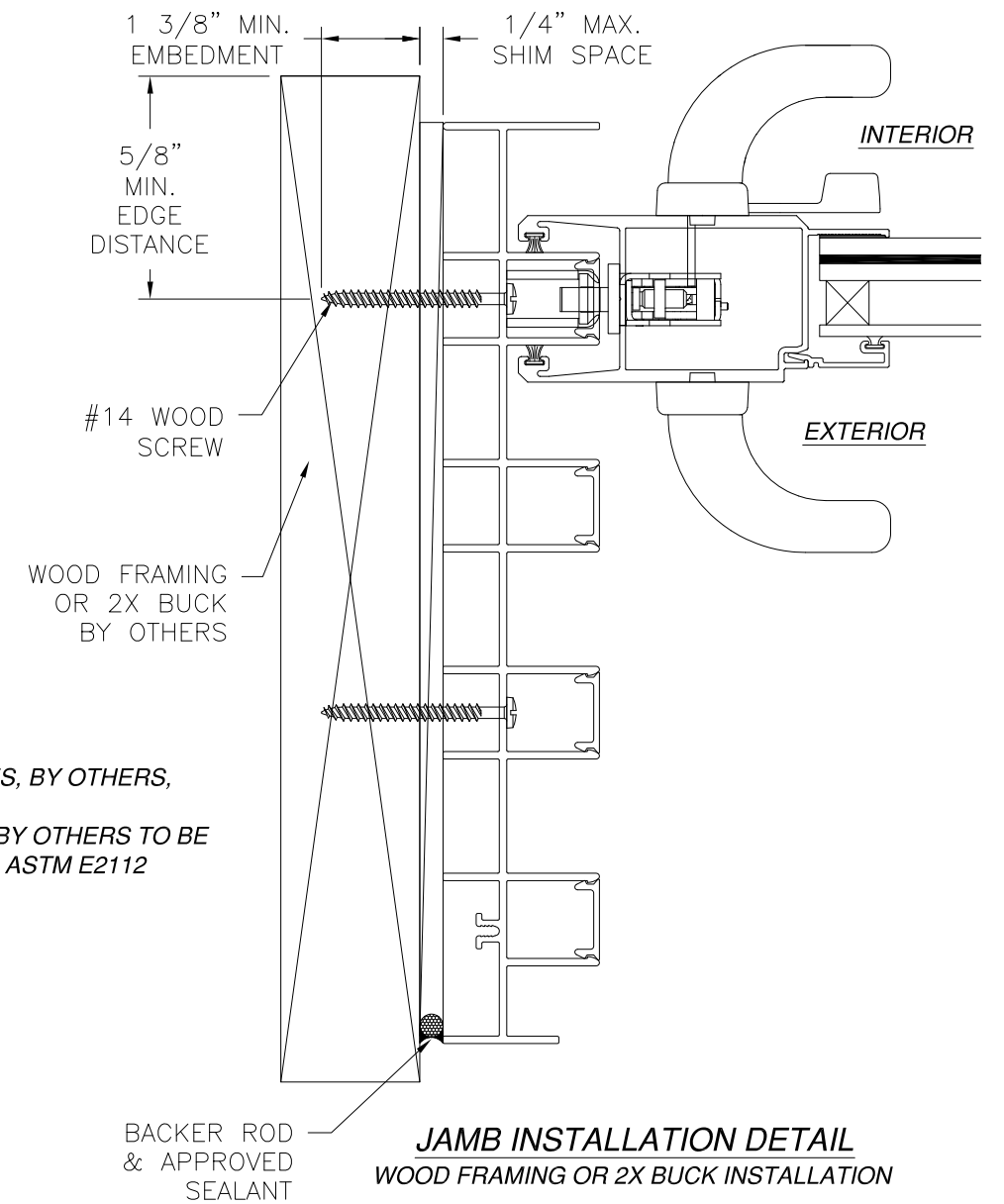


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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 GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

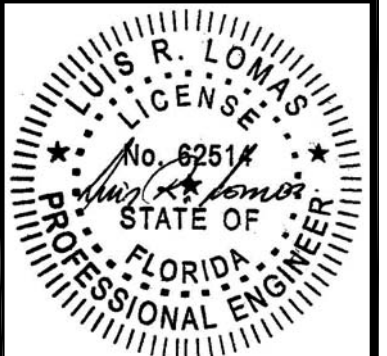
SIGNED: 11/03/2022

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

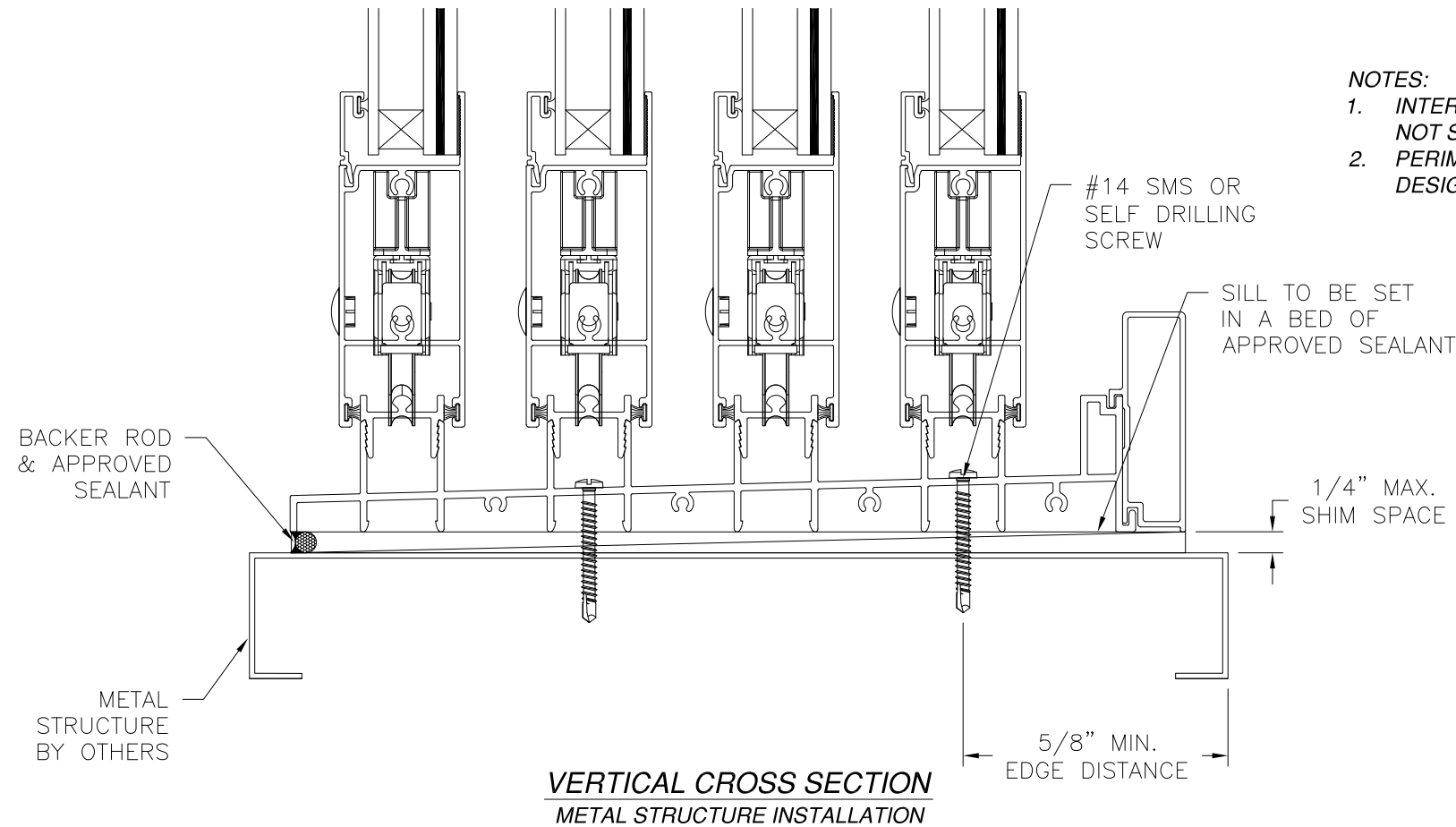
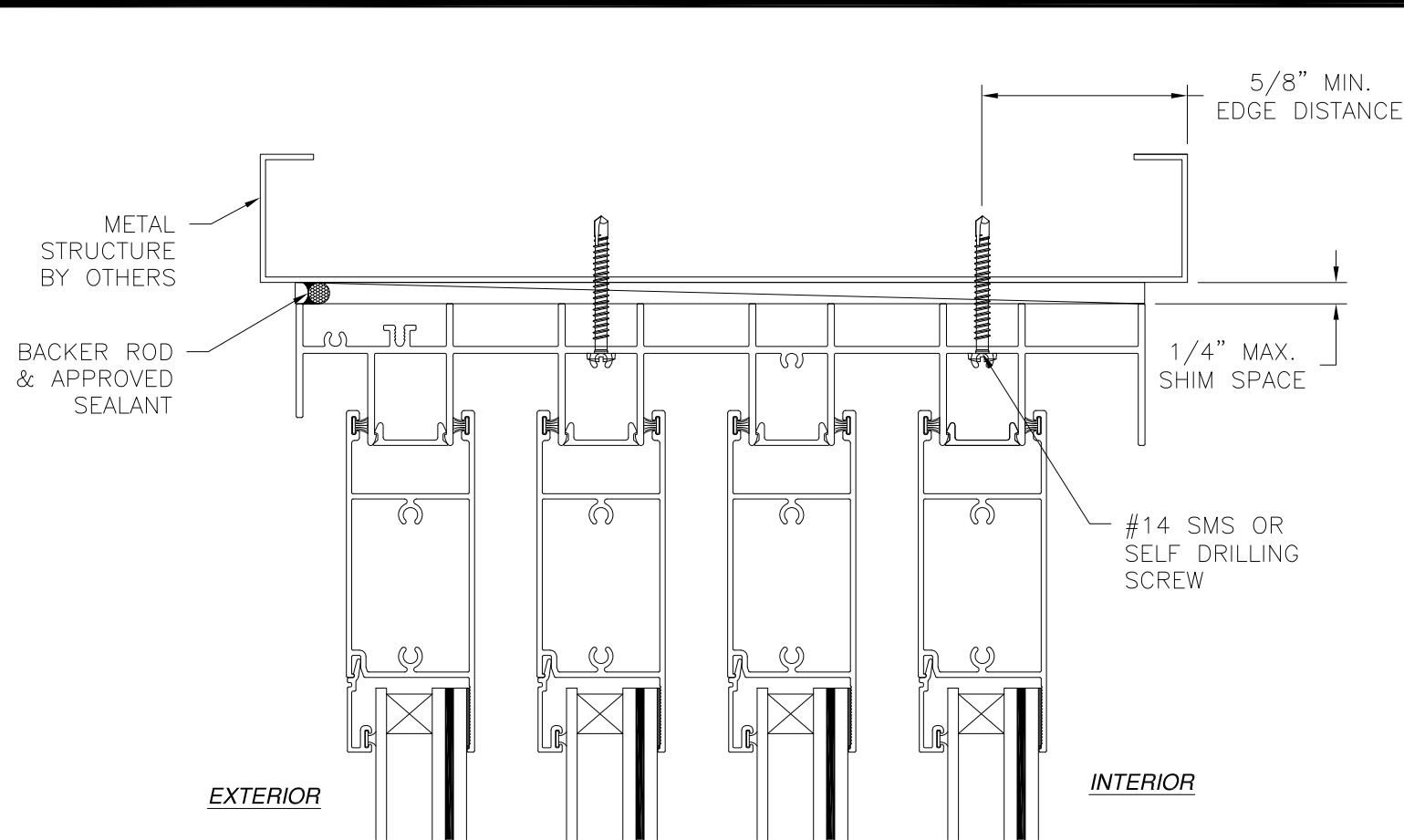
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NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
4 TRACK FINLESS INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 15 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

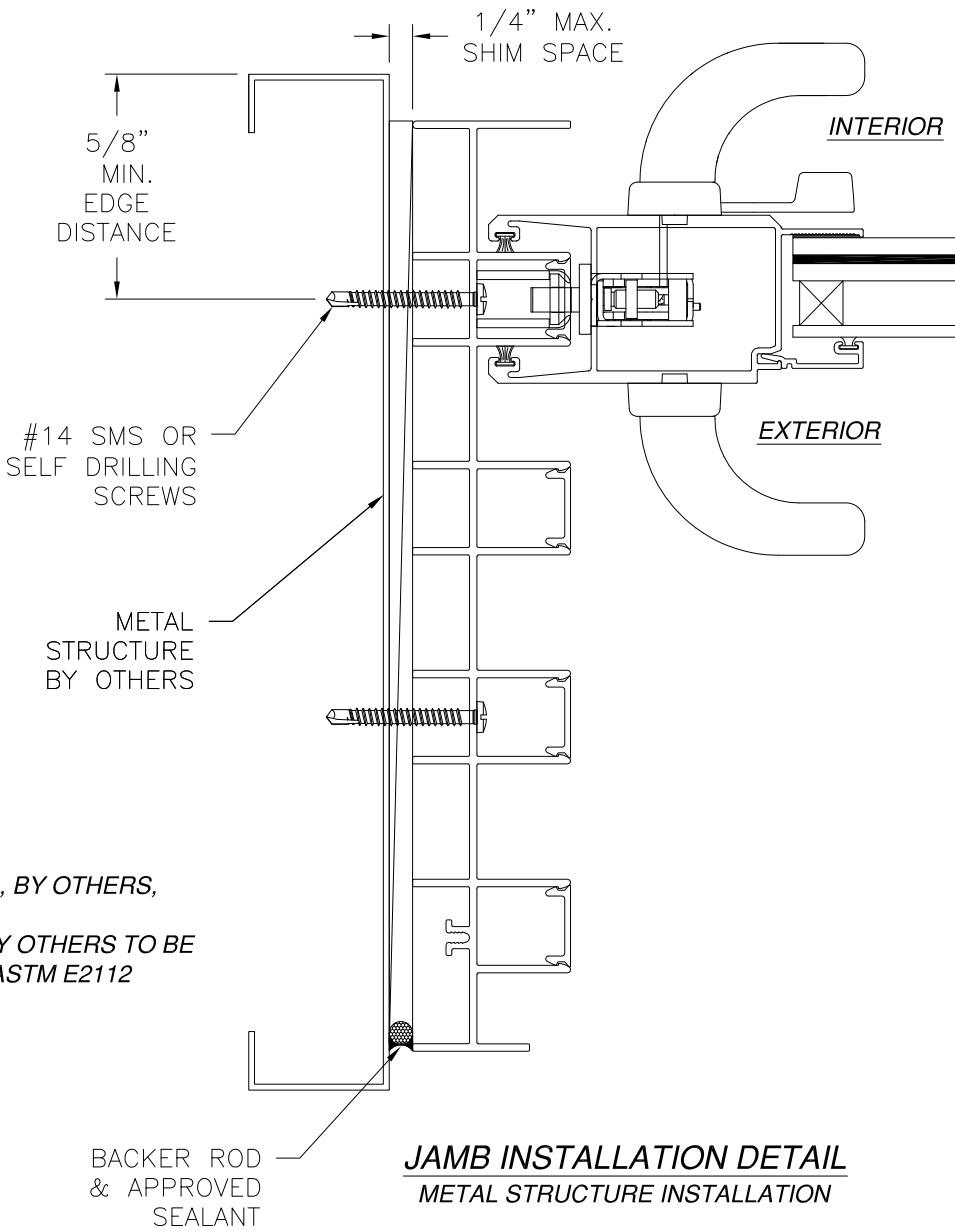


Luis R. Lomas P.E.
FL No.: 62514



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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



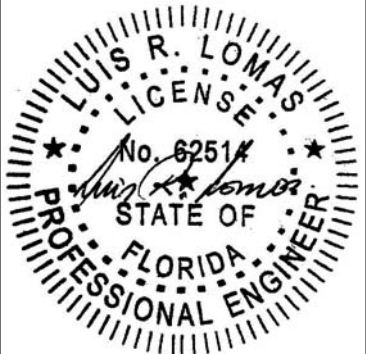
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
4 TRACK FINLESS INSTALLATION DETAILS

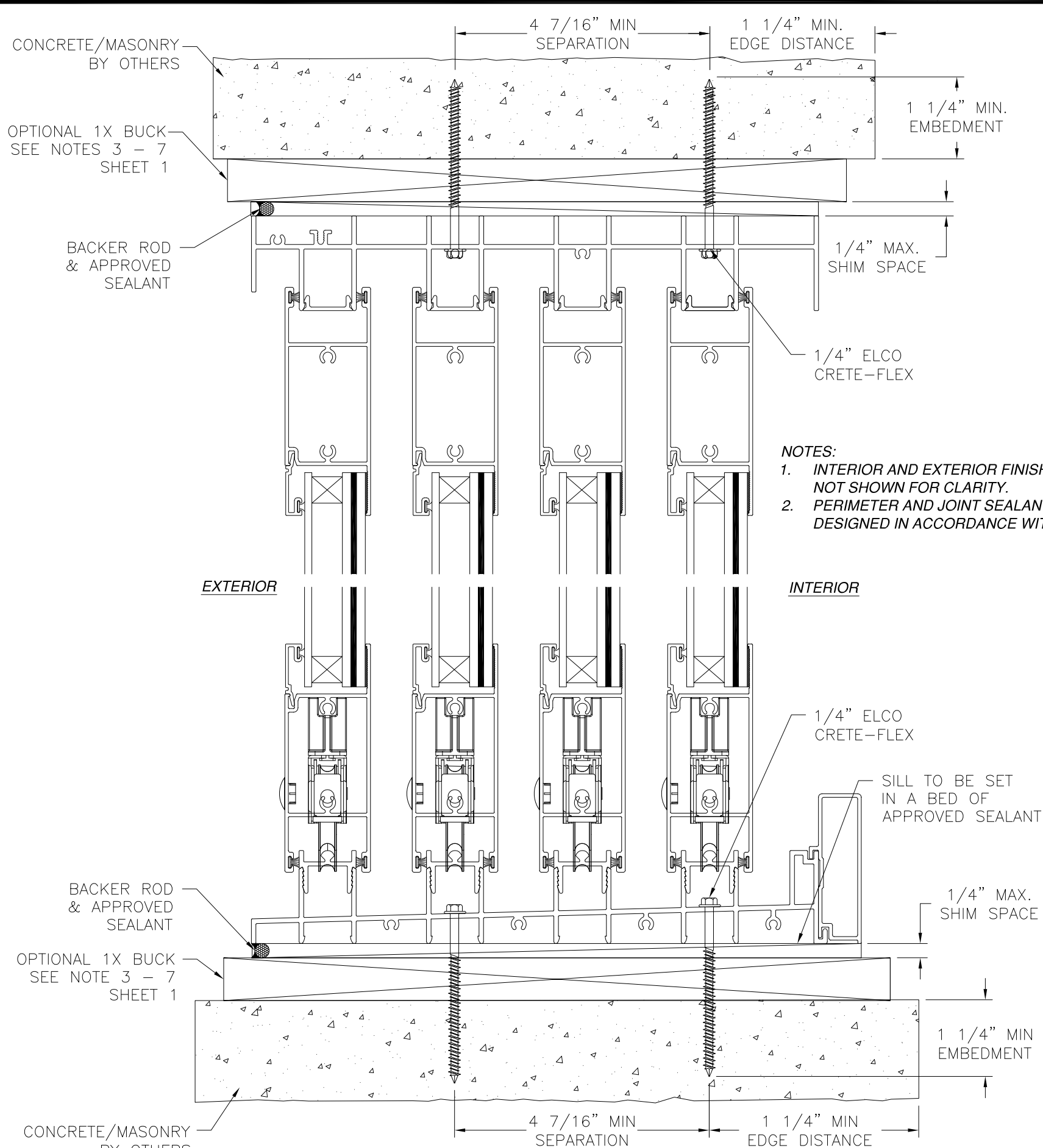
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SCALE NTS	DATE 09/19/18	SHEET 16 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/03/2022

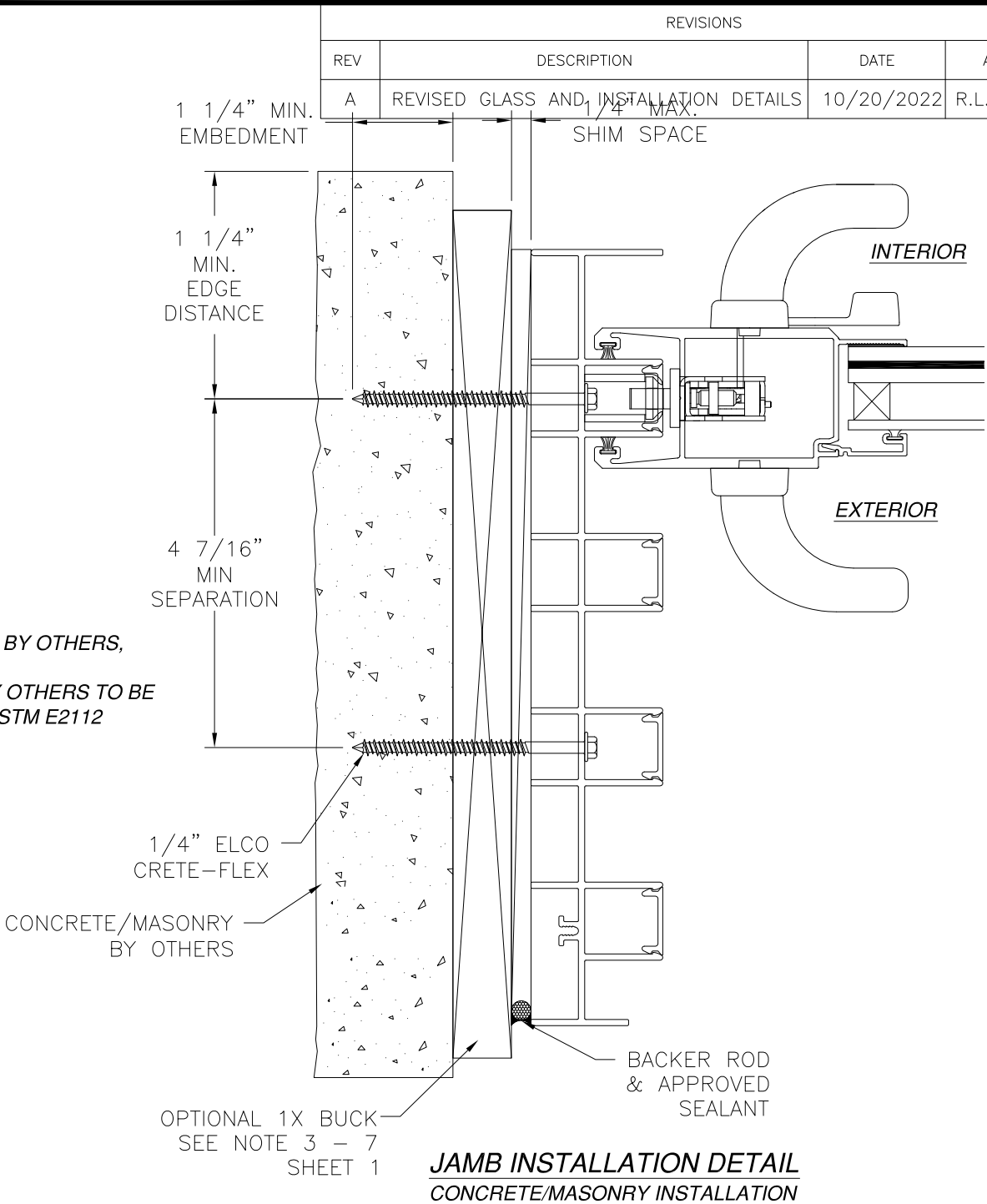


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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

- NOTES:**
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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

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

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
4 TRACK FINLESS INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03321

REV
A

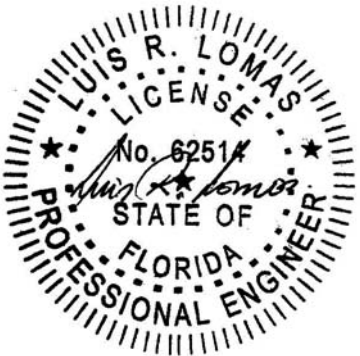
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NTS

DATE
09/19/18

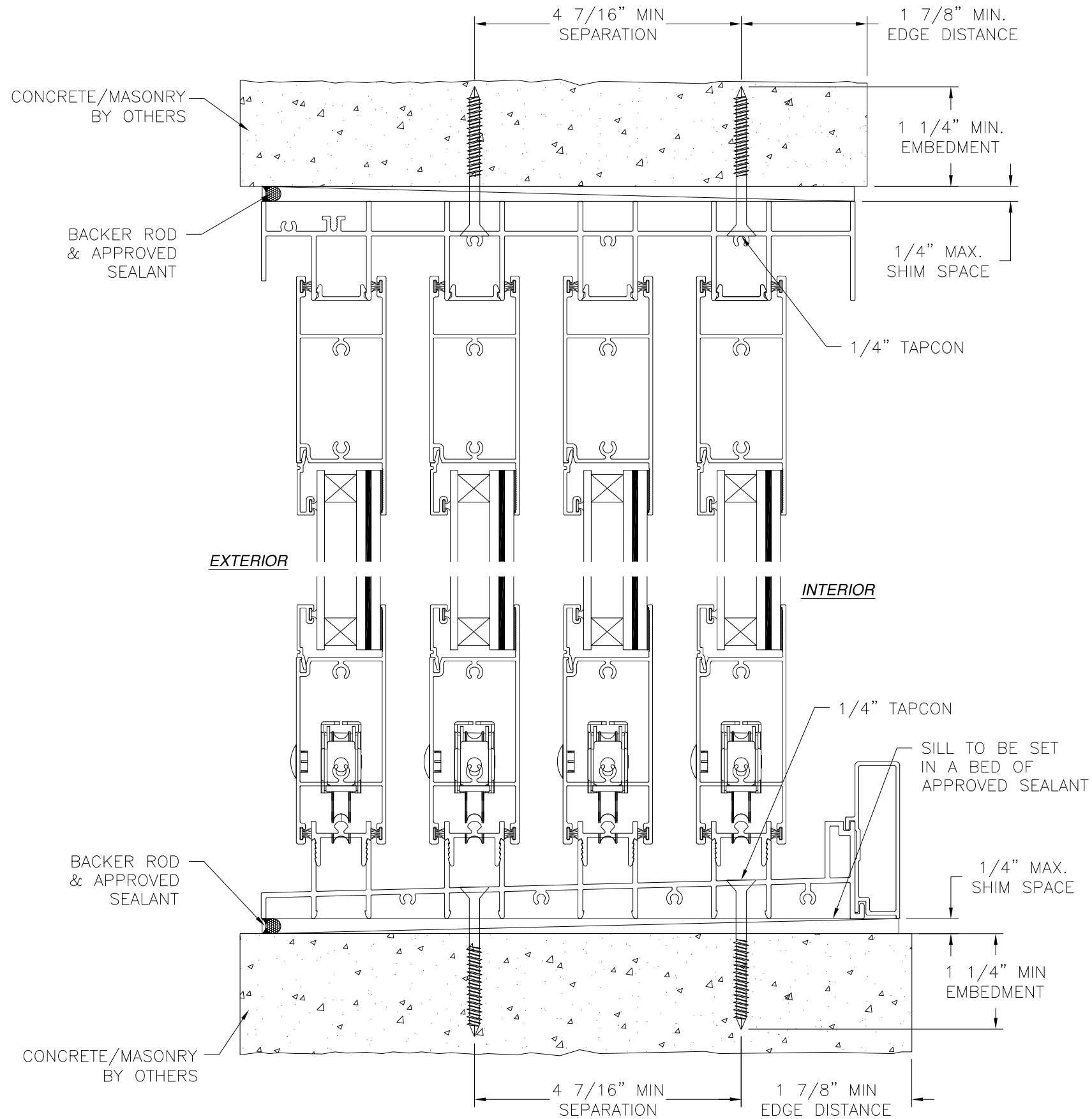
SHEET
17 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
HEAD AND SILL SHOWN, JAMBS SIMILAR

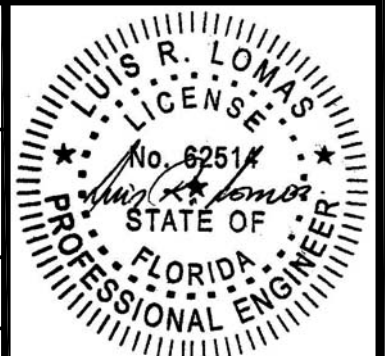
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

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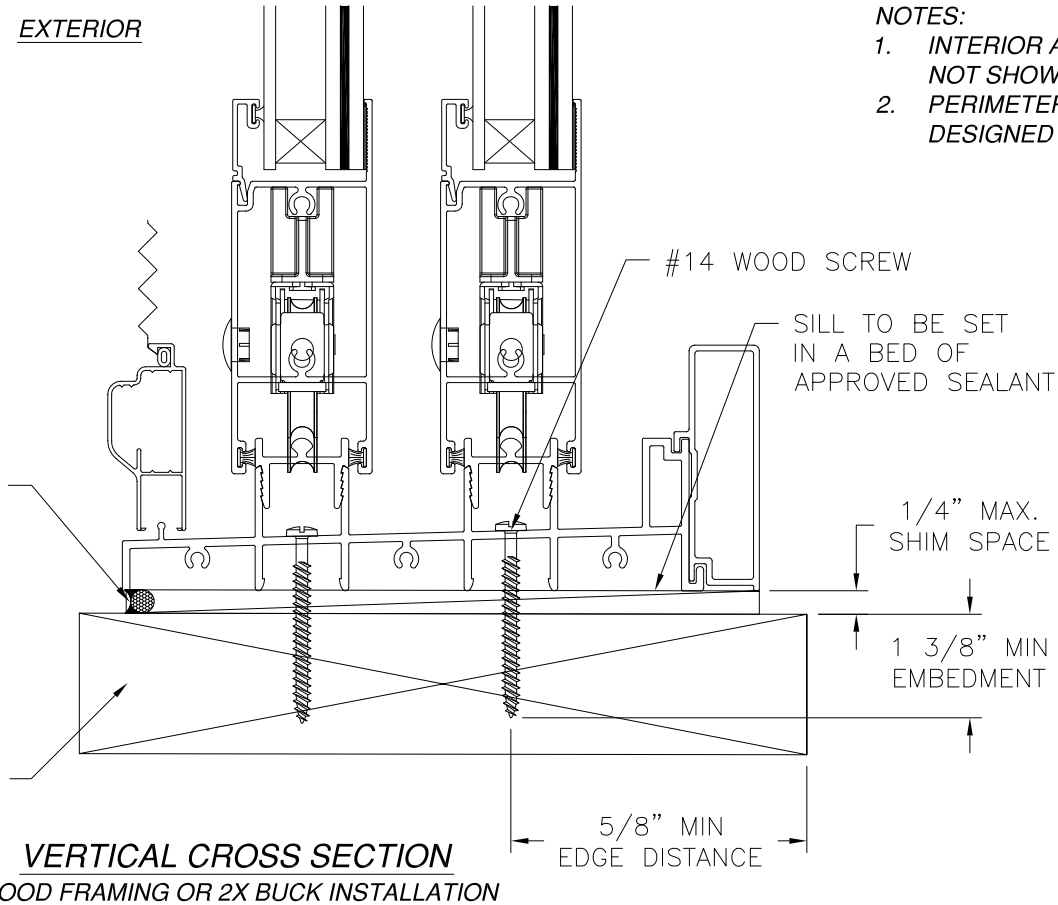
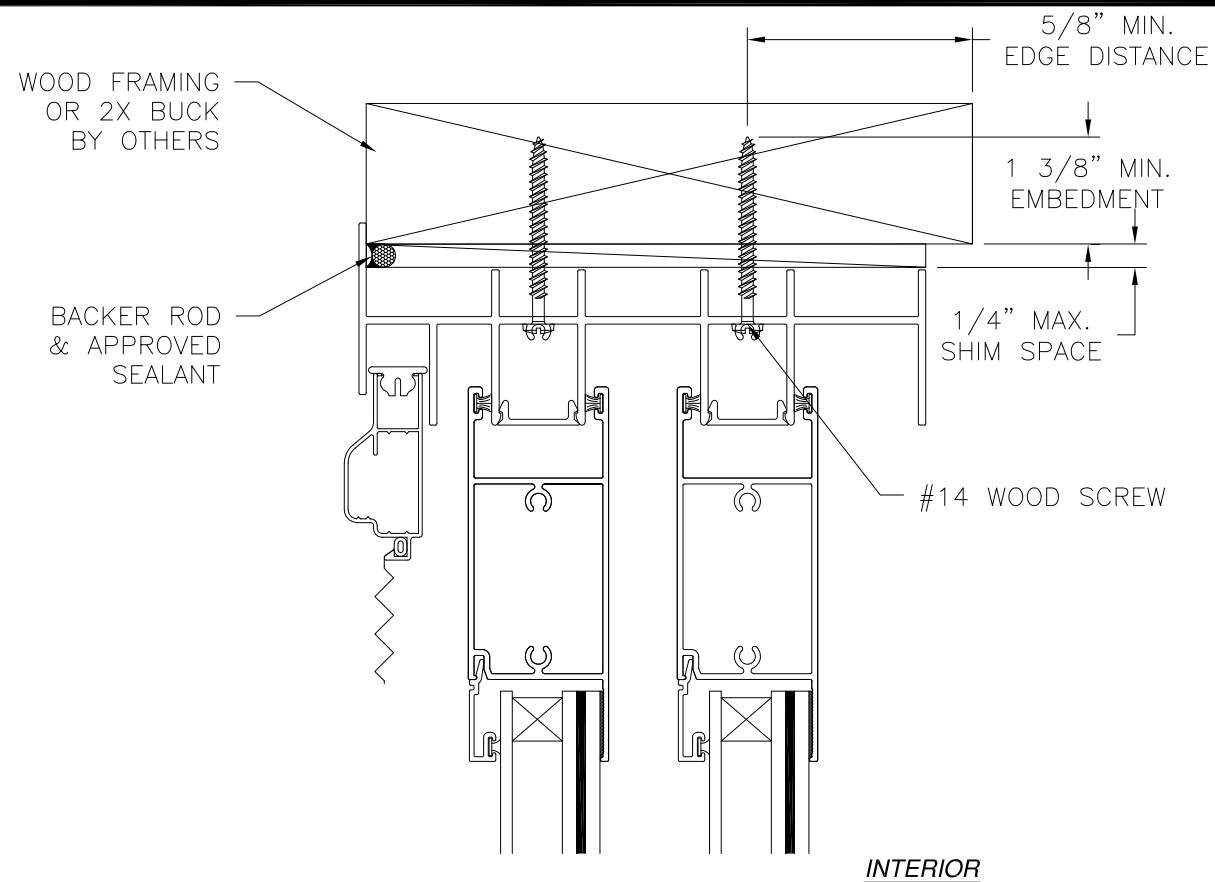
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SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 4 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 18 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

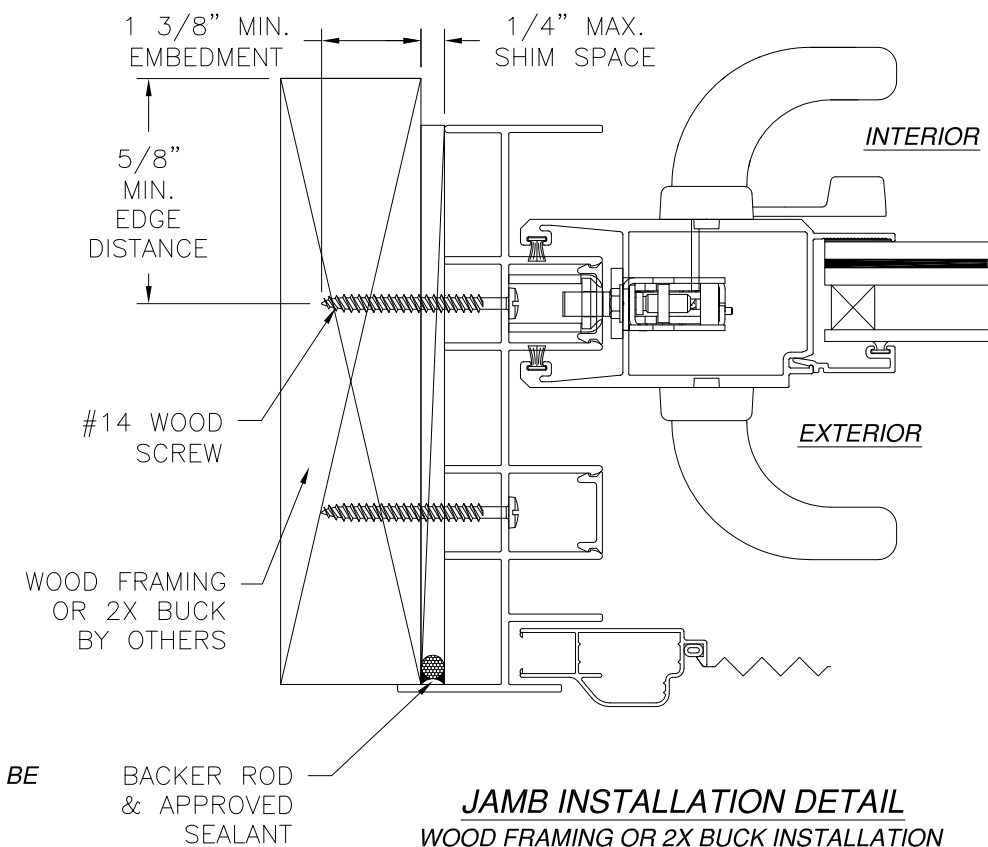


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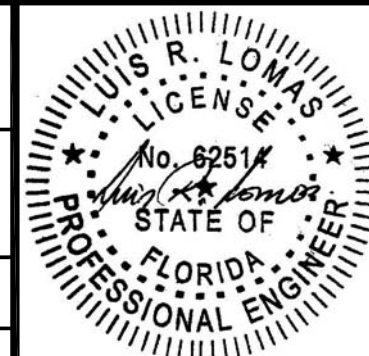
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

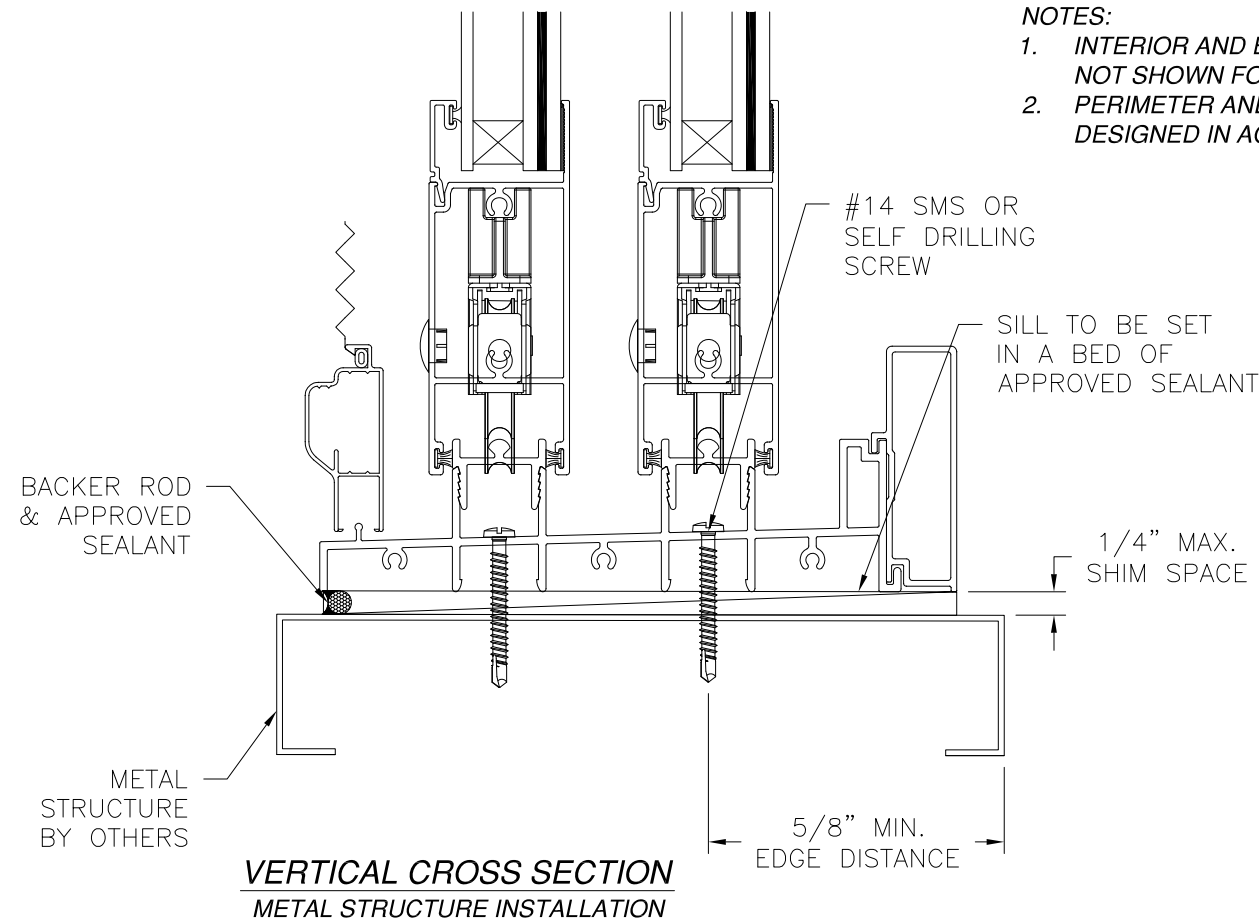
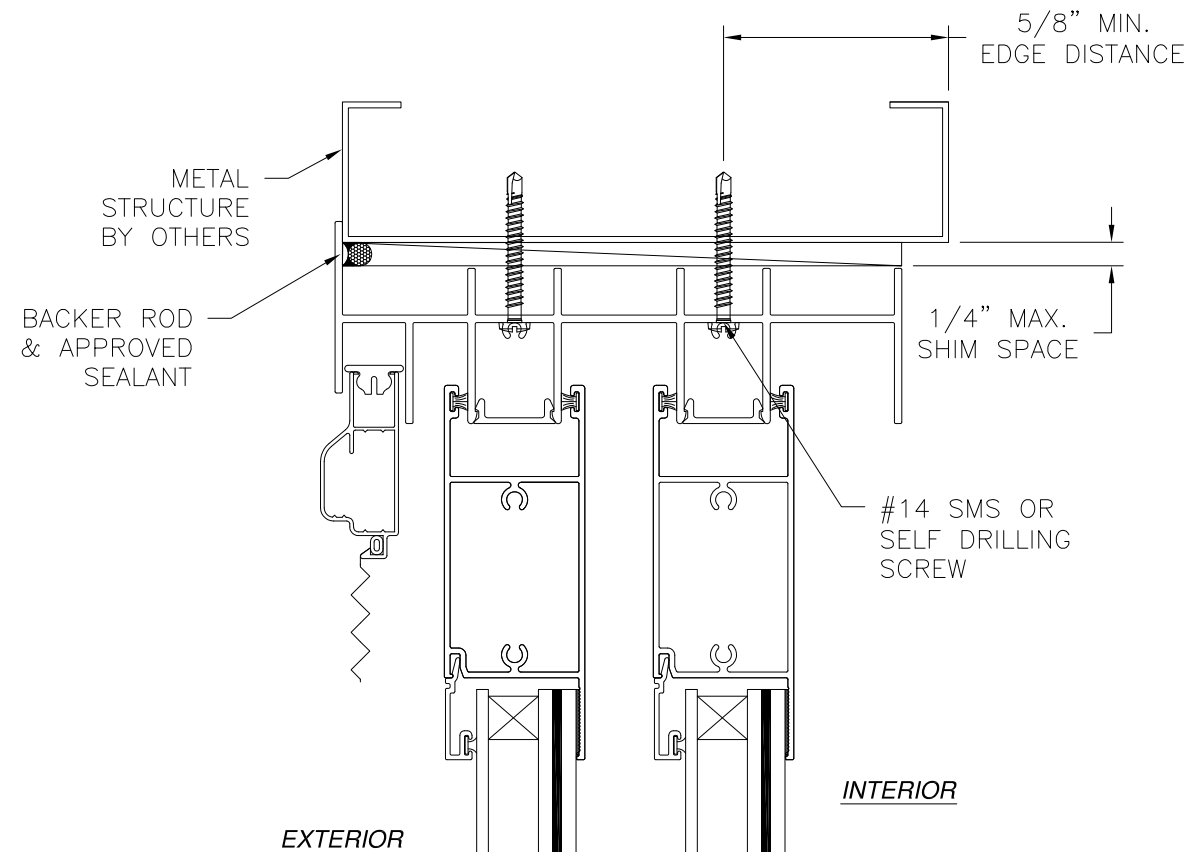


MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 2 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 19 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/03/2022

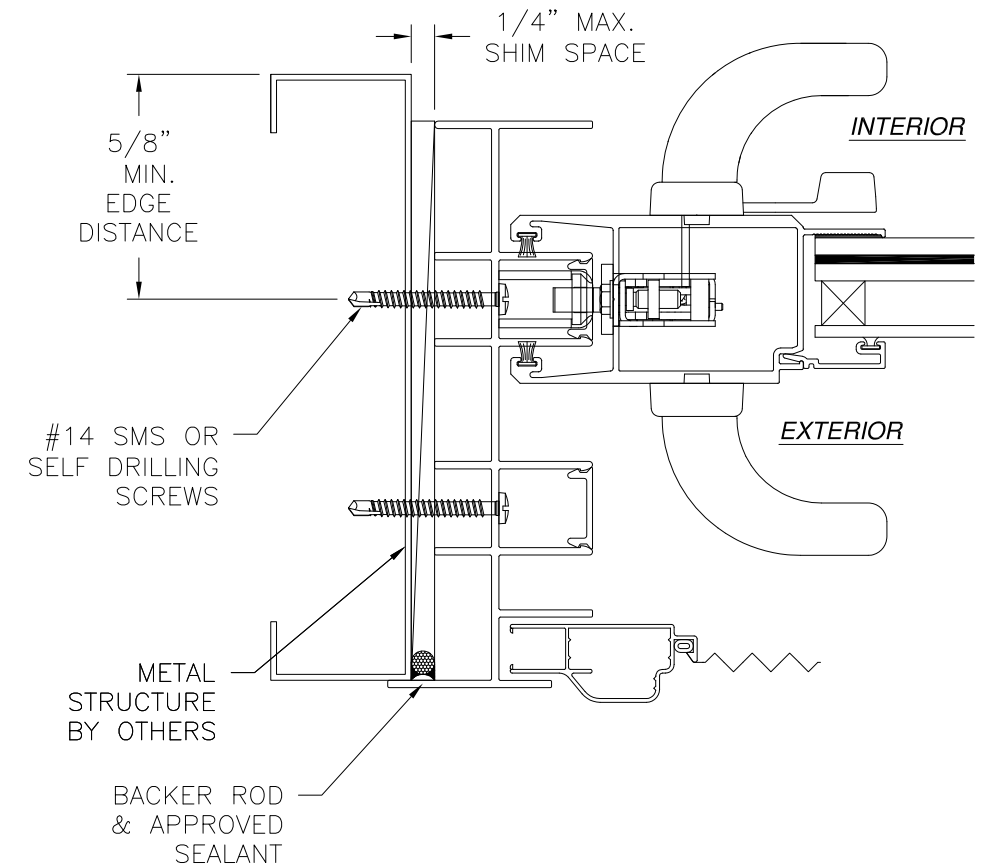


Luis R. Lomas P.E.
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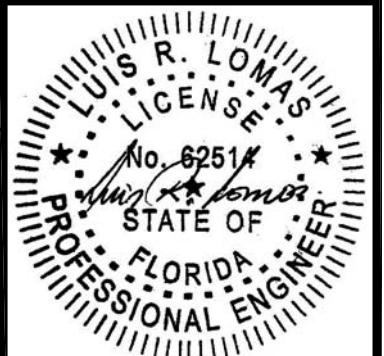
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



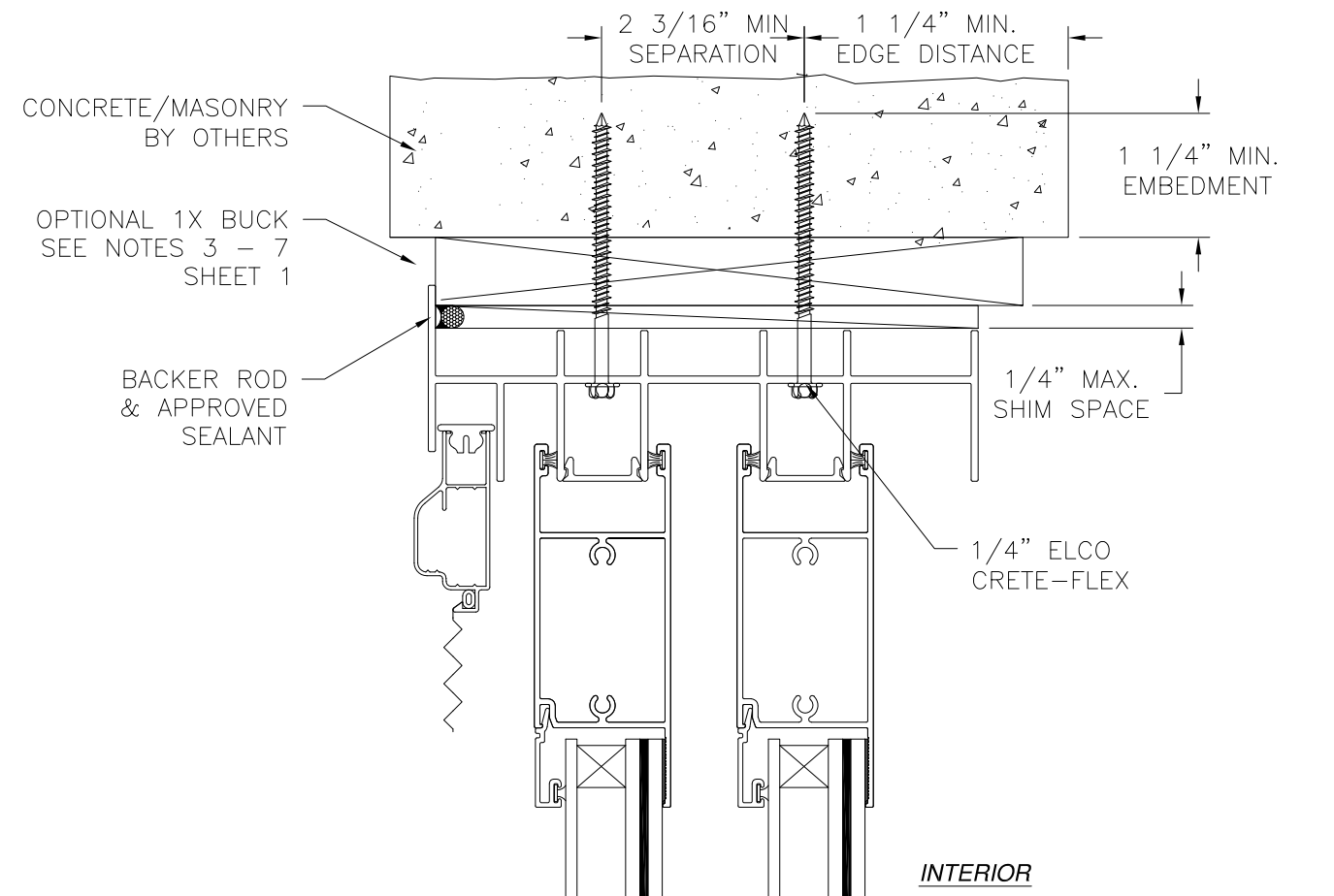
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 2 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 20 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

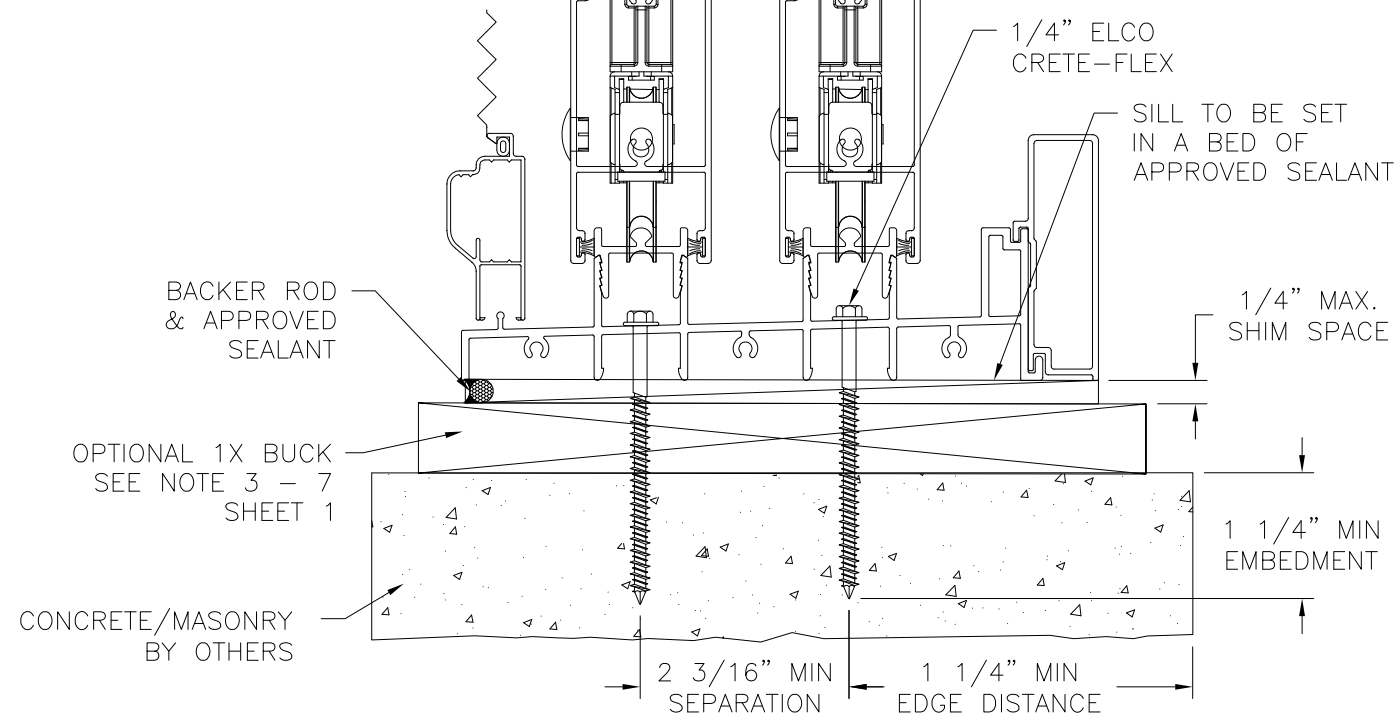


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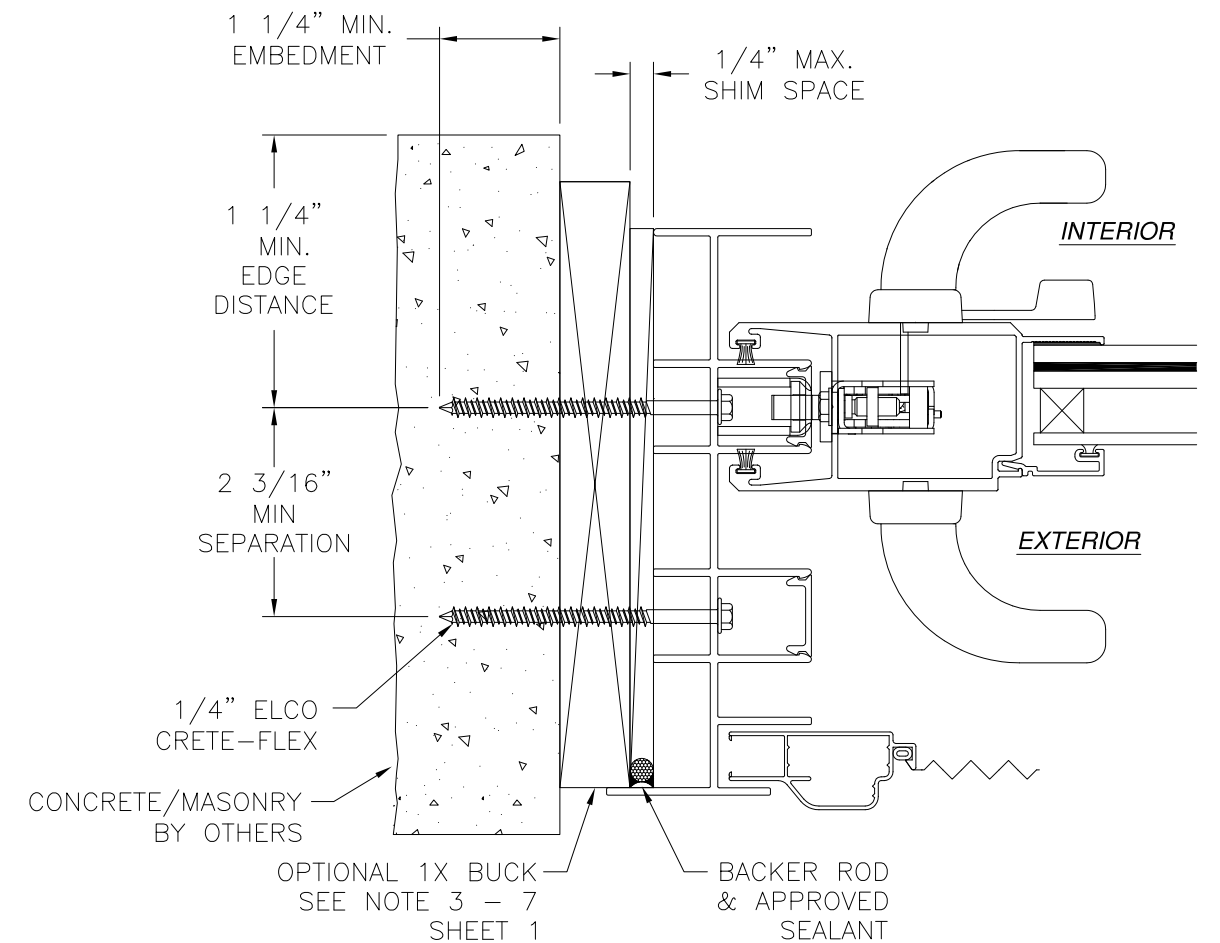
EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



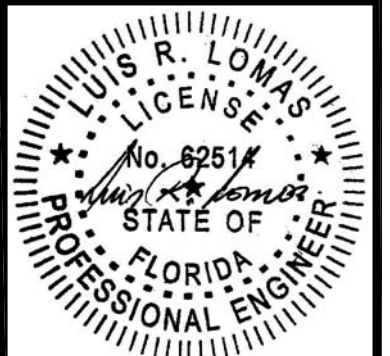
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CONCRETE/MASONRY INSTALLATION

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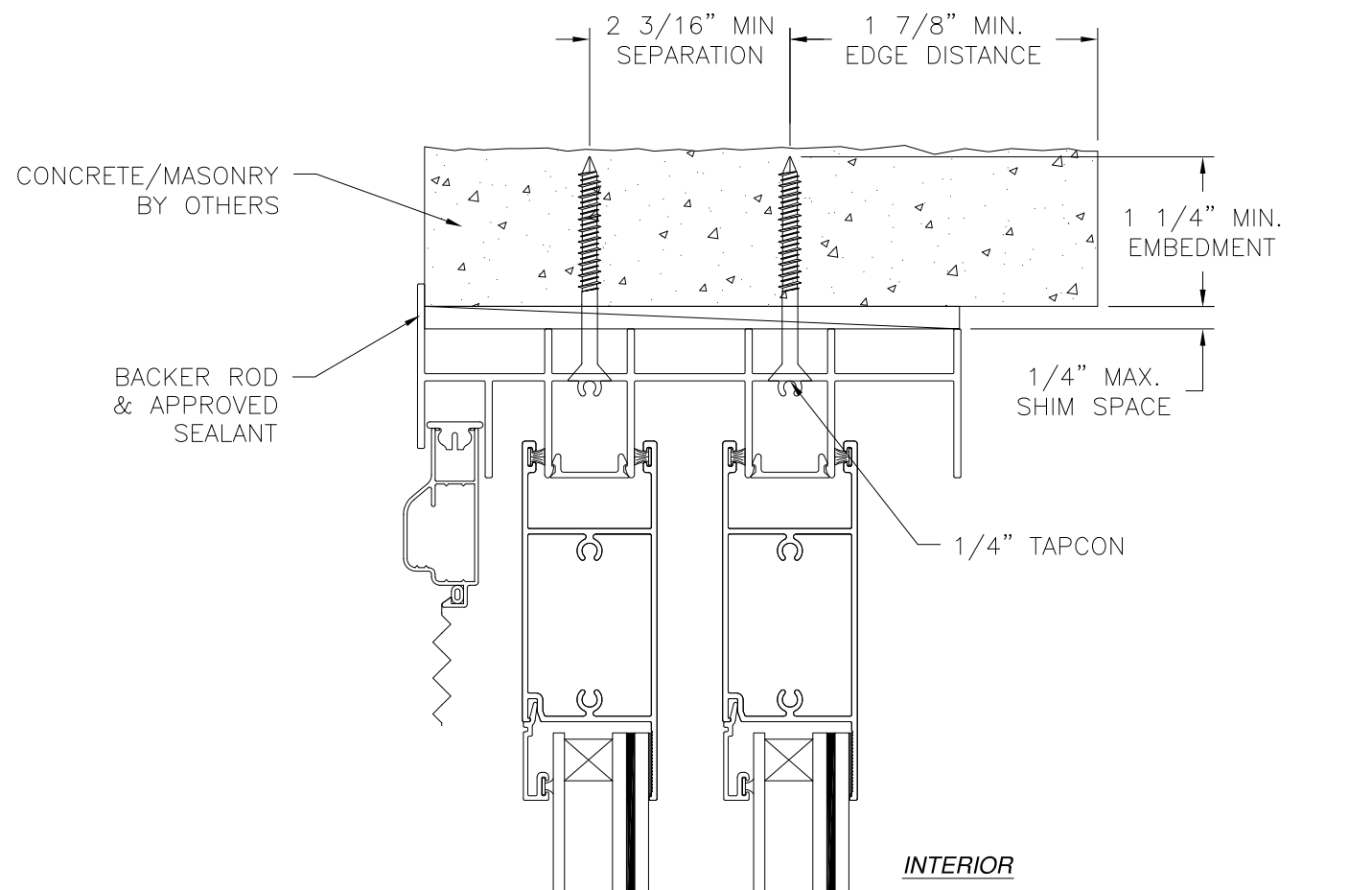
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SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 2 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 21 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

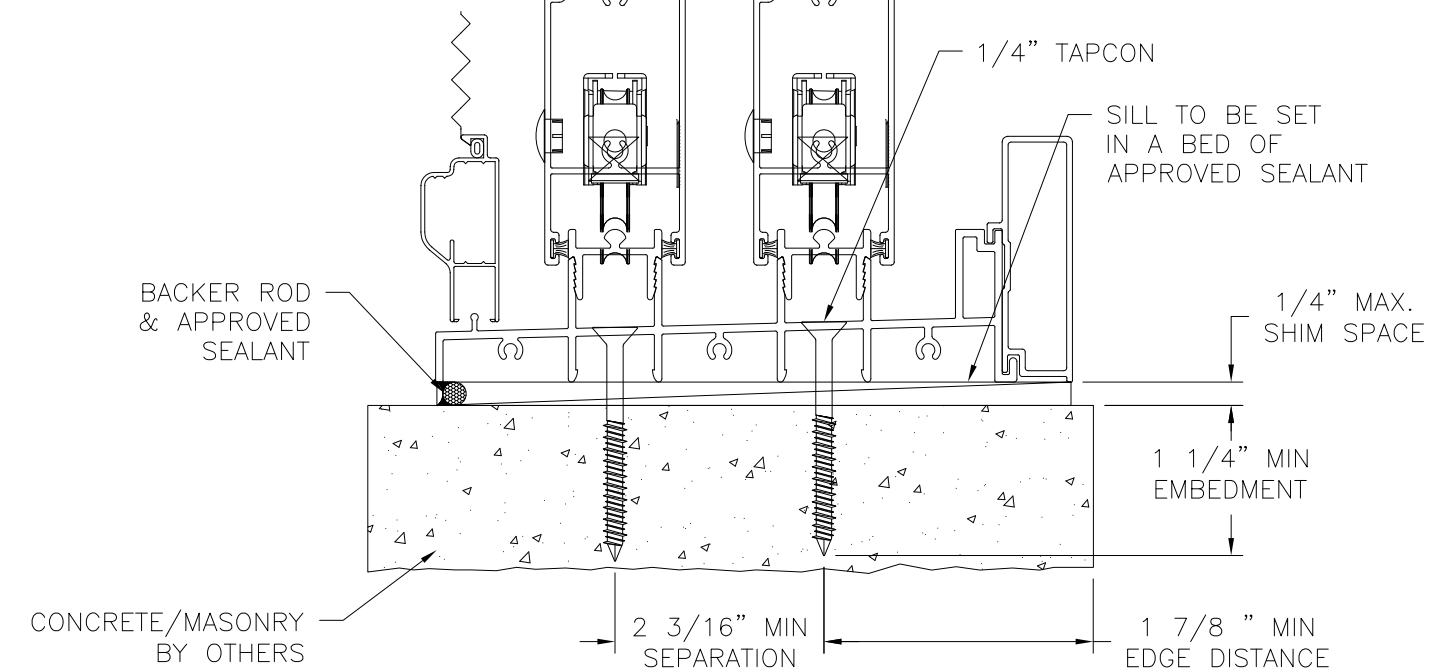


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FL No.: 62514



EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
HEAD AND SILL SHOWN, JAMBS SIMILAR

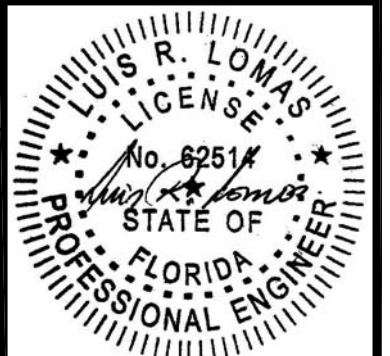
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

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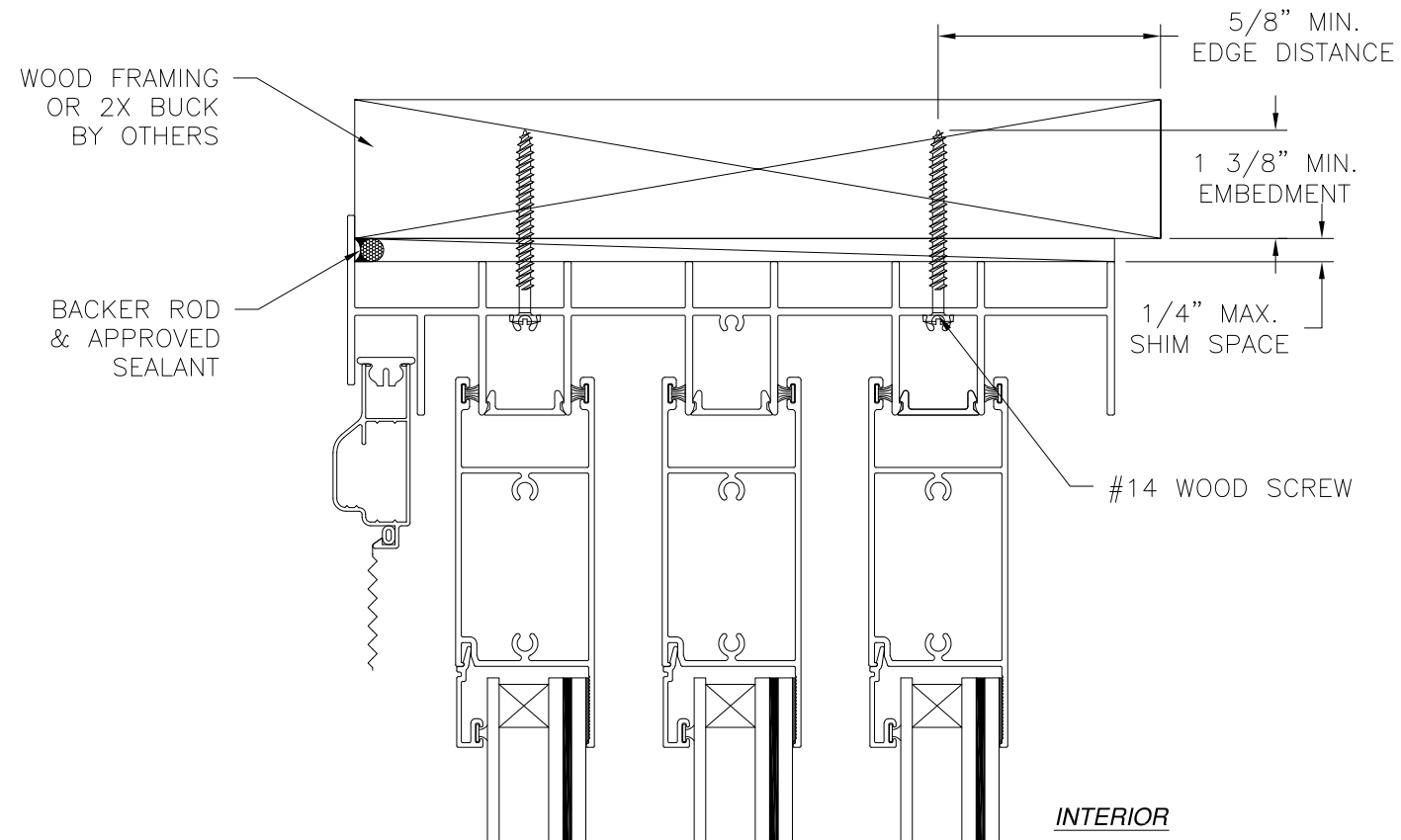
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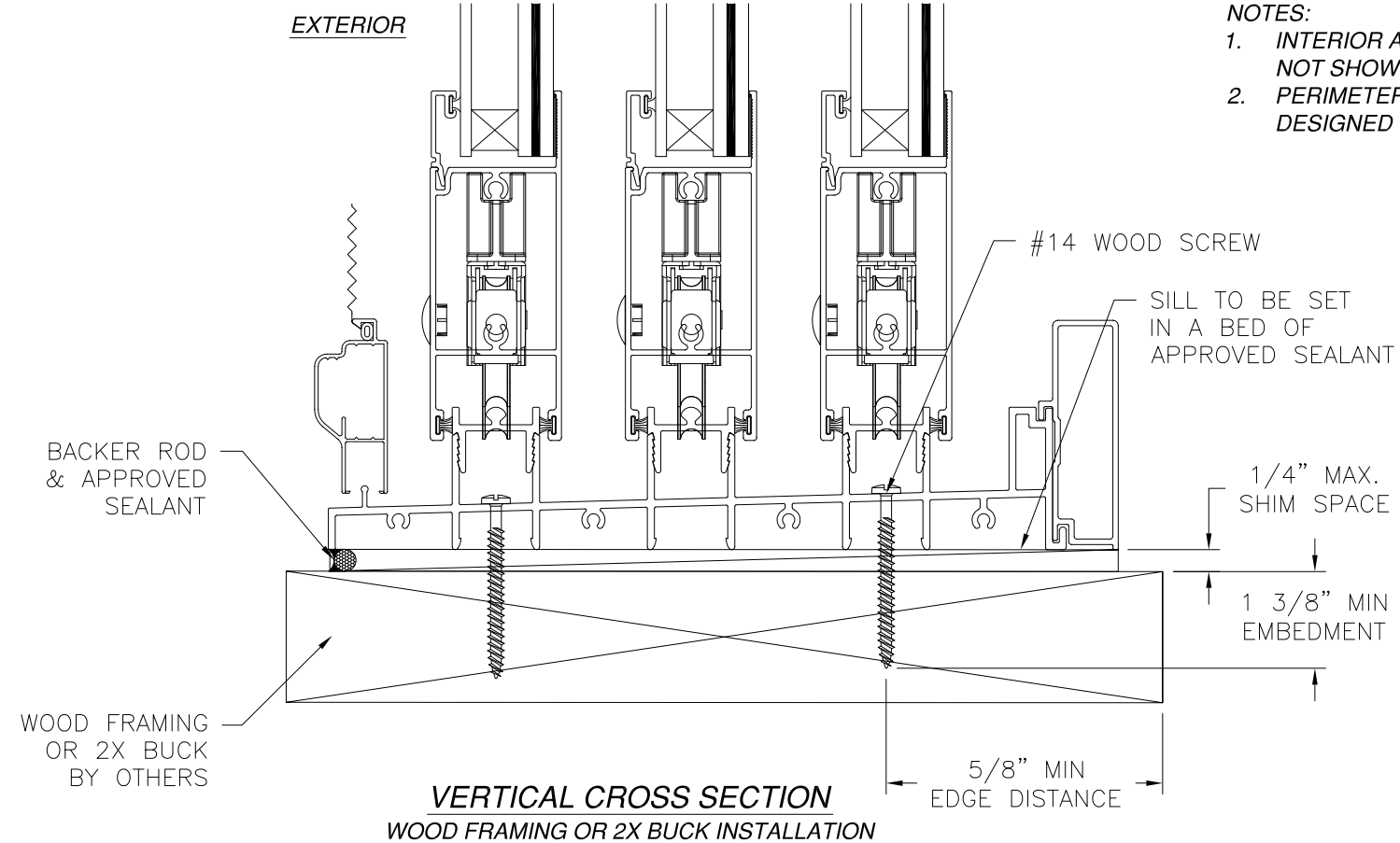
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 2 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 22 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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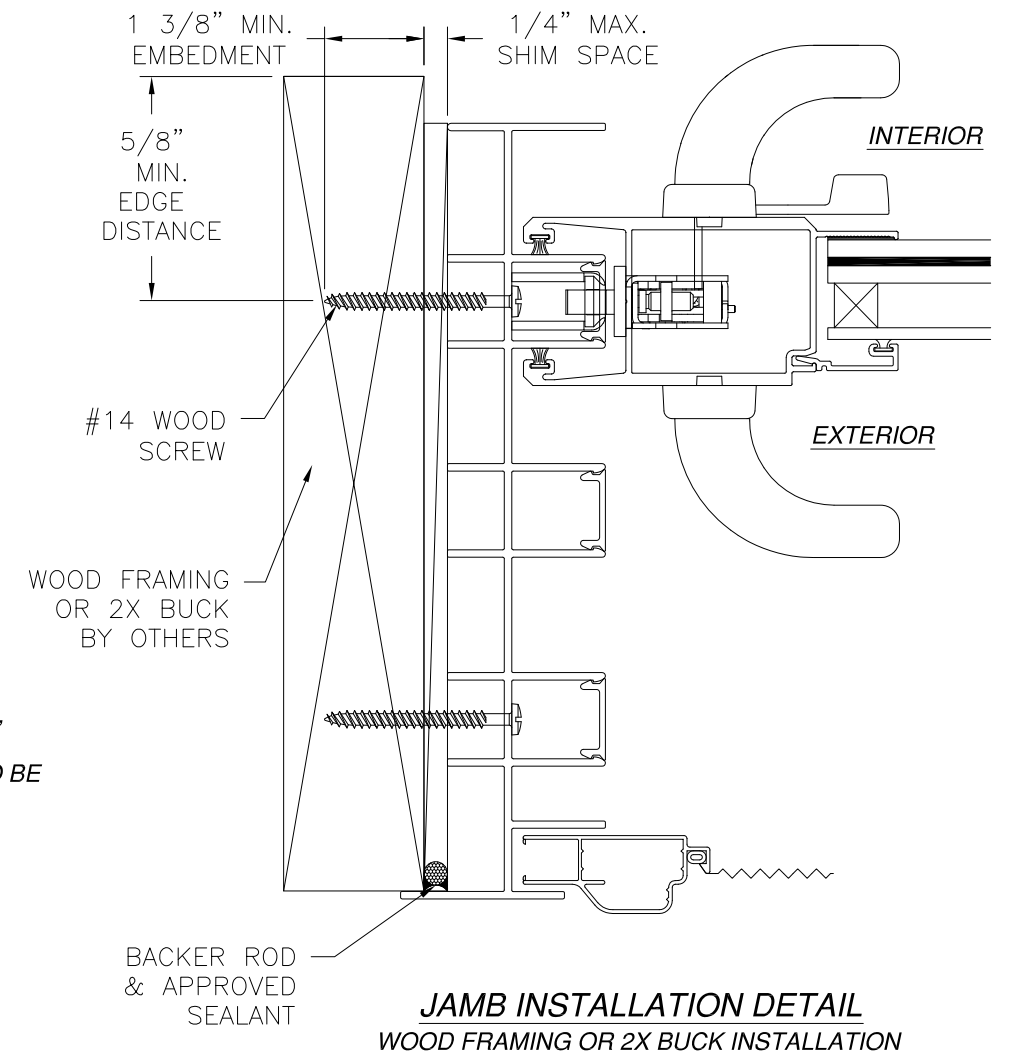
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NOTES:

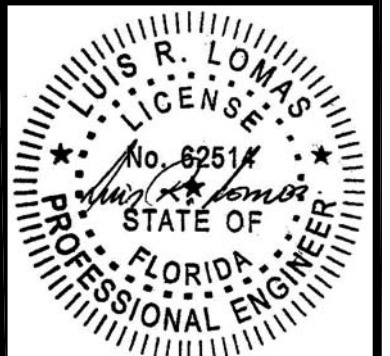
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REVISIONS			
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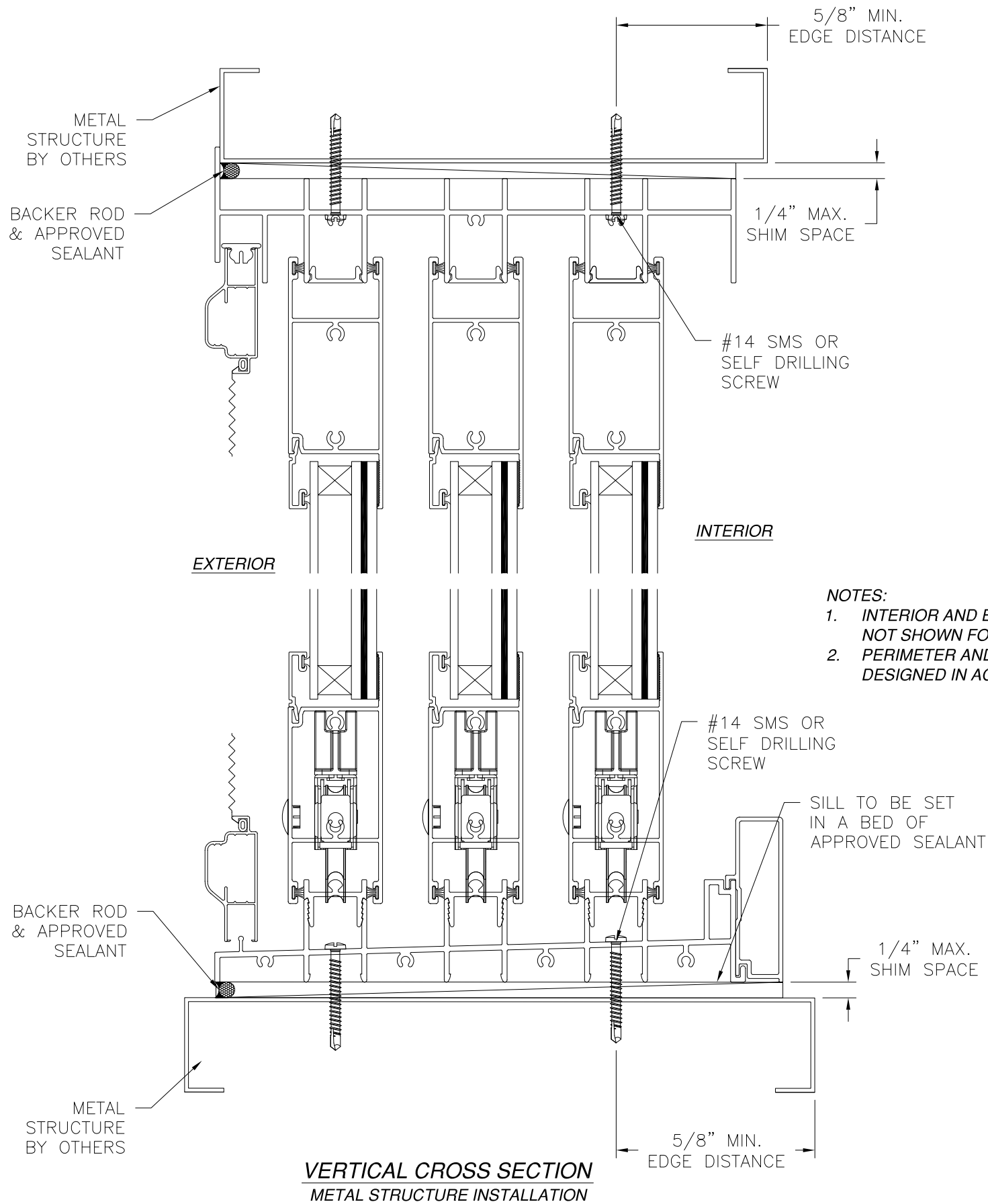


SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 23 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

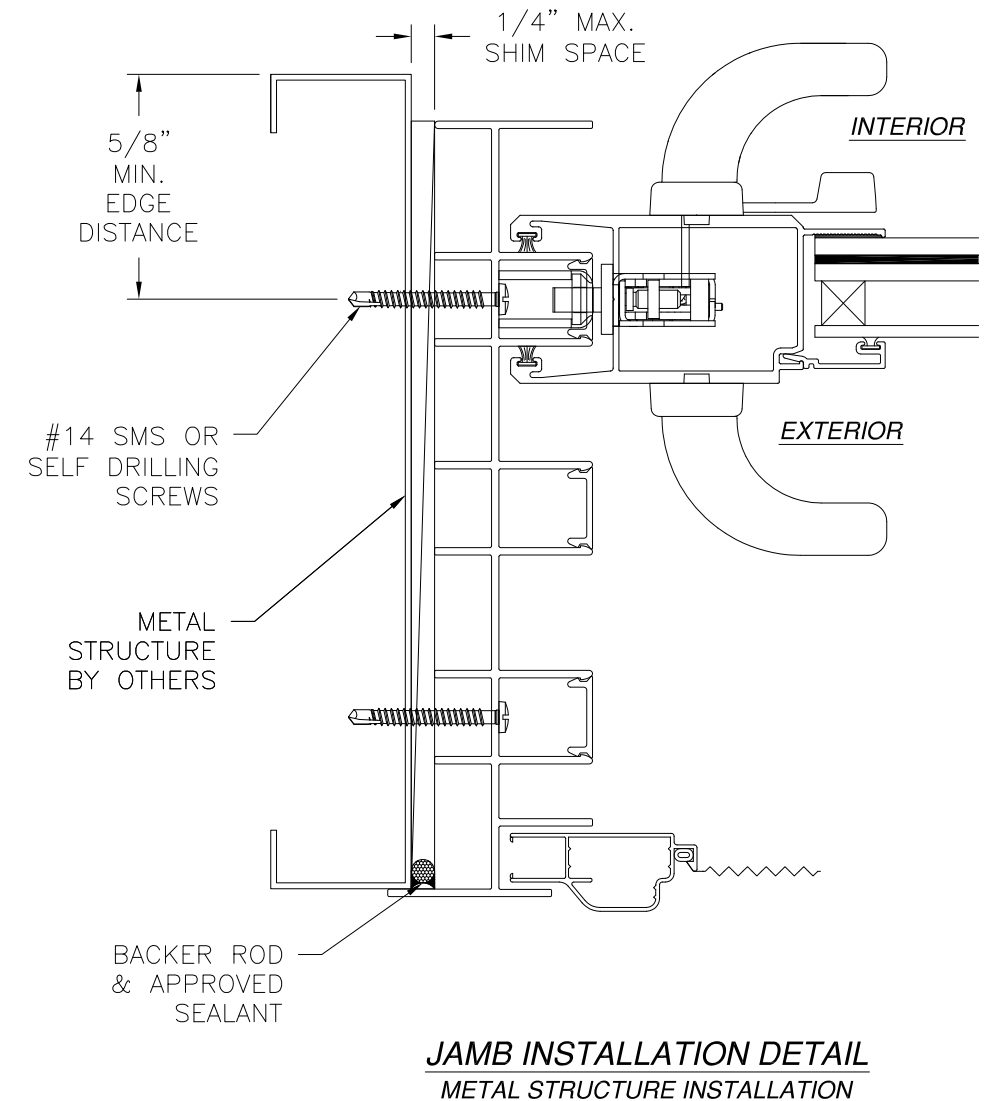


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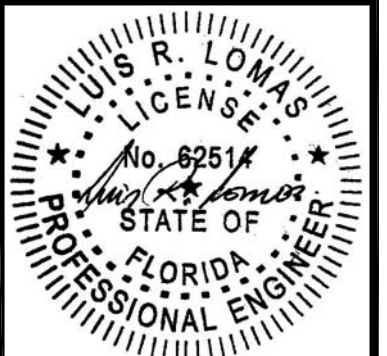
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REVISIONS			
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A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

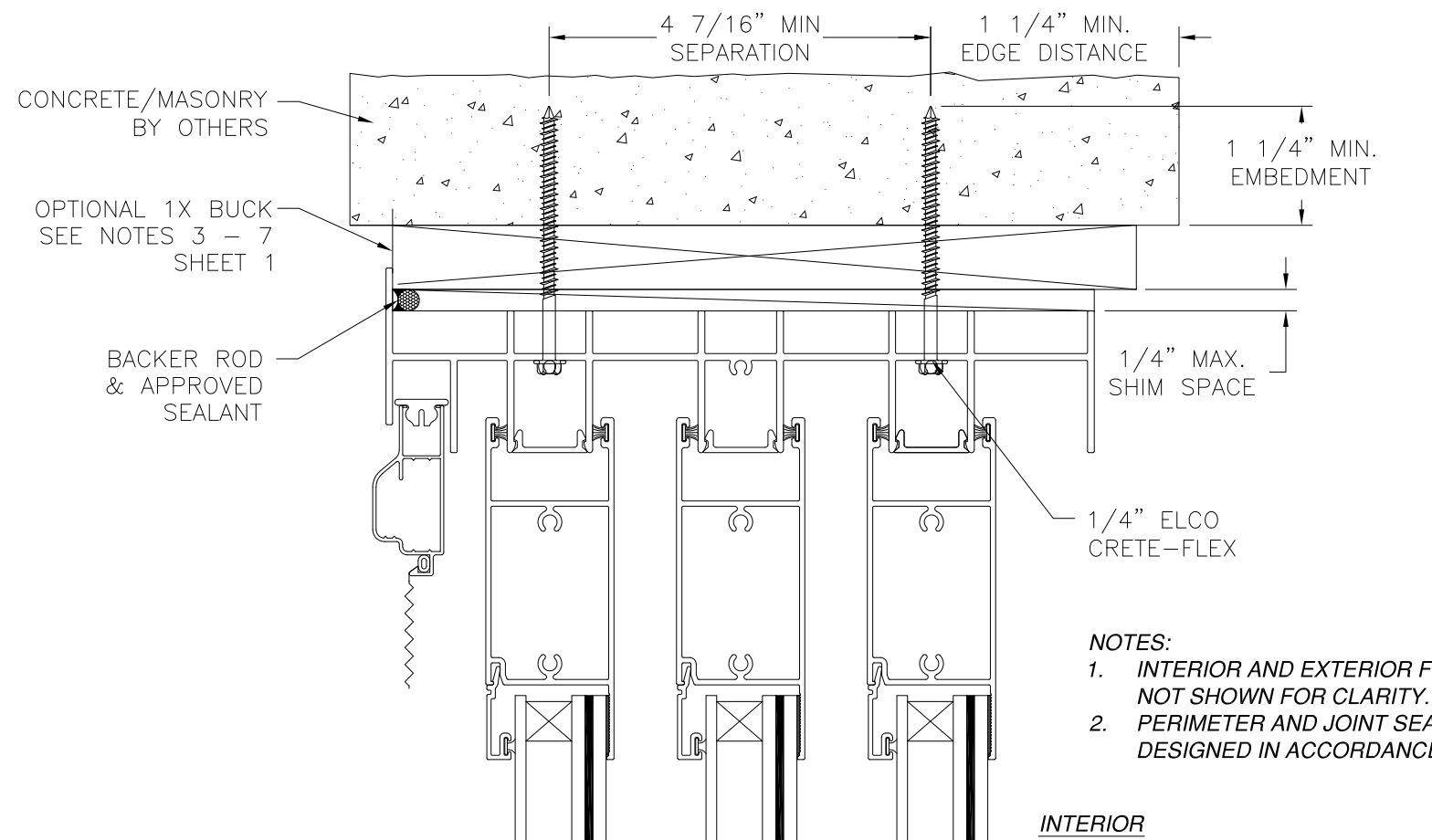


MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 24 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

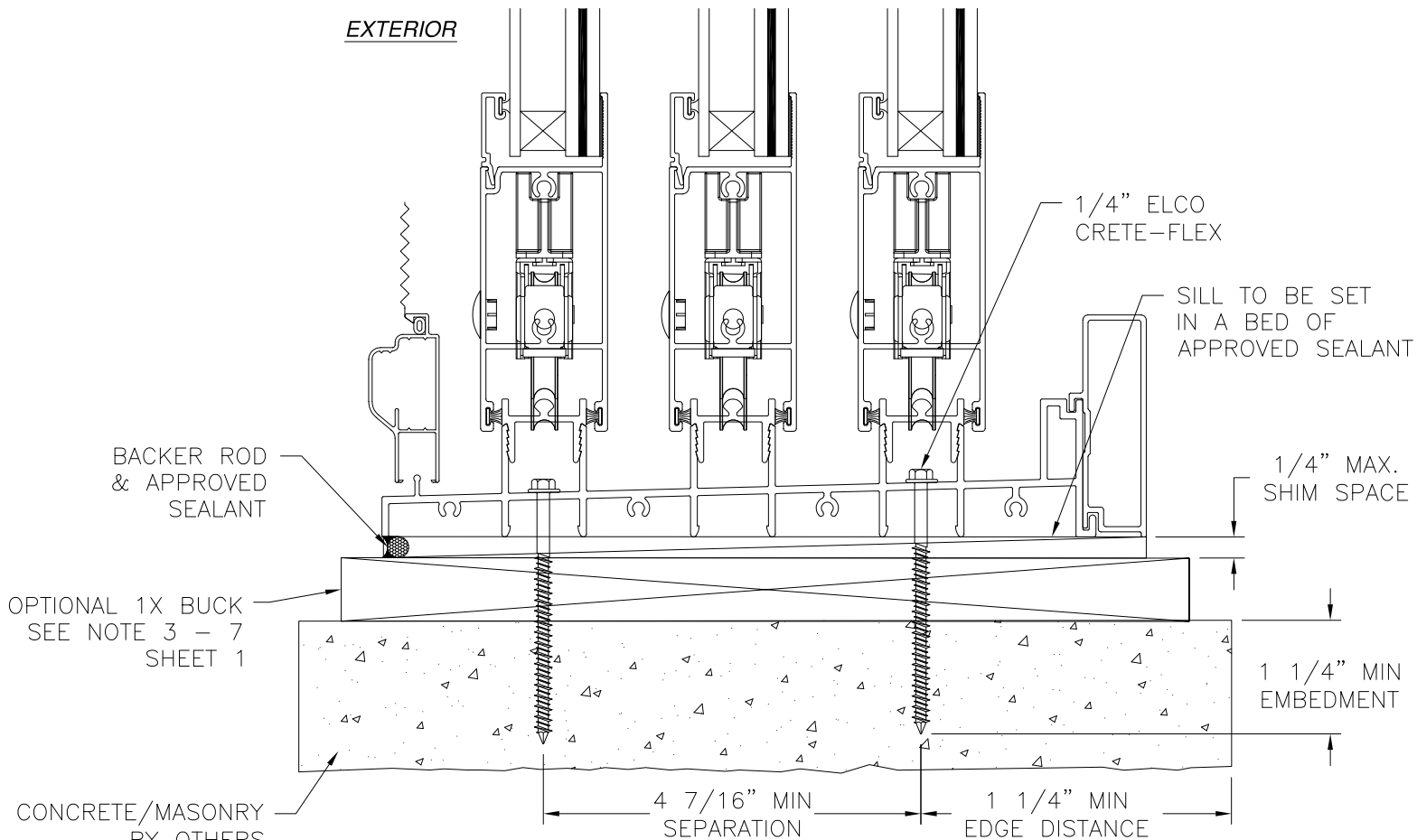
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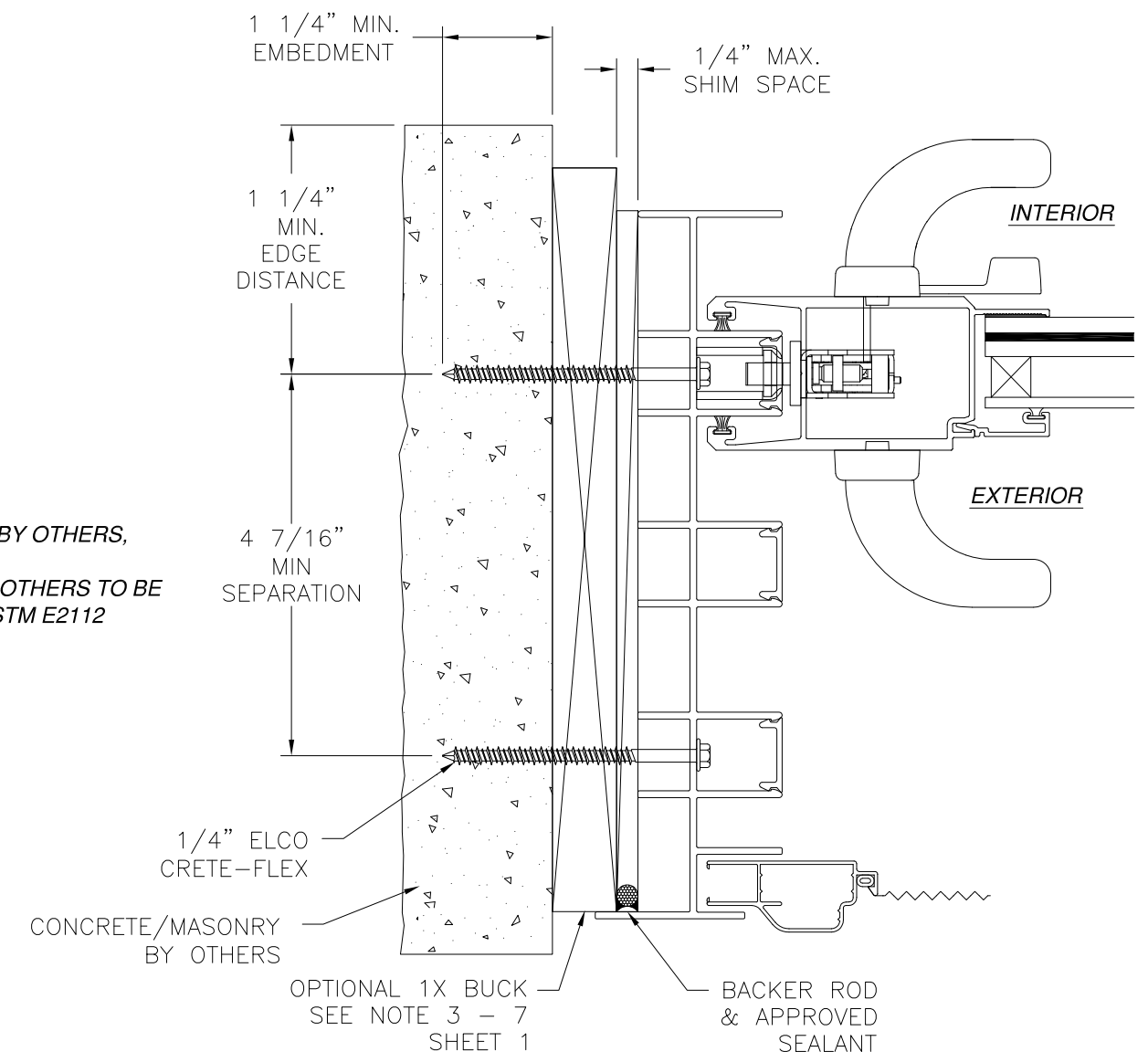


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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

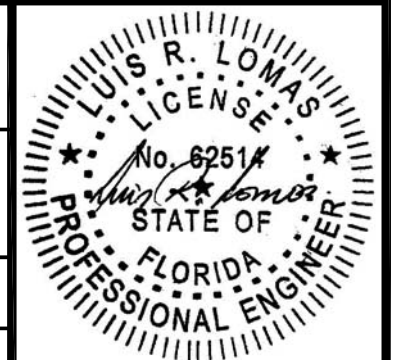
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REV	DESCRIPTION	DATE	APPROVED
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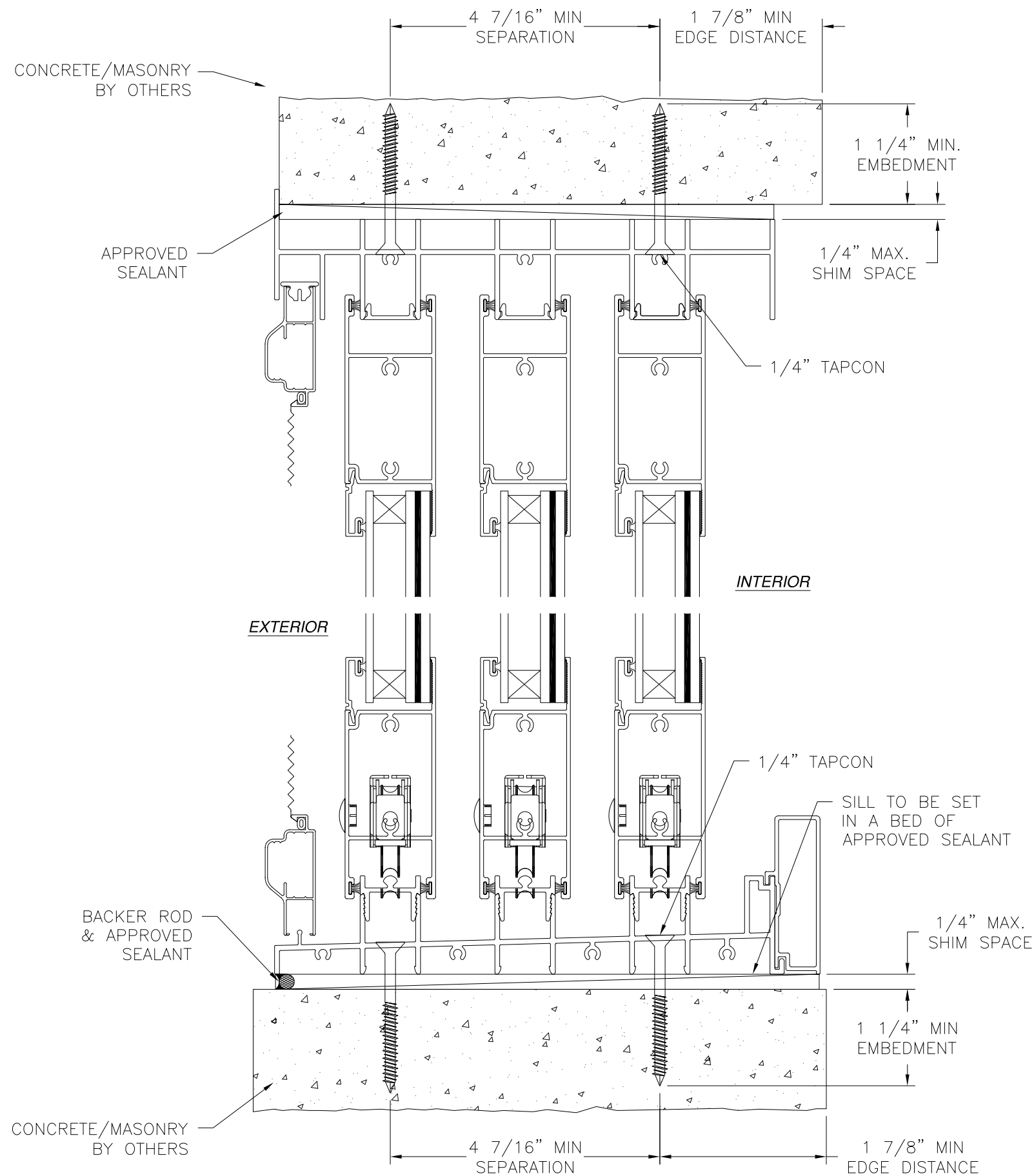
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 25 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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VERTICAL CROSS SECTION
 CONCRETE/MASONRY INSTALLATION
 HEAD AND SILL SHOWN, JAMBS SIMILAR

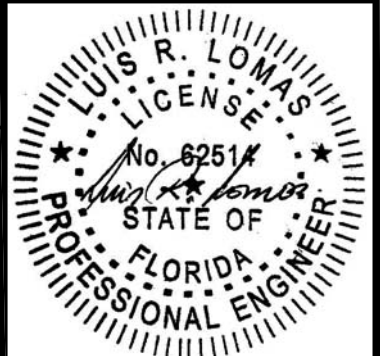
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REV	DESCRIPTION	DATE	APPROVED
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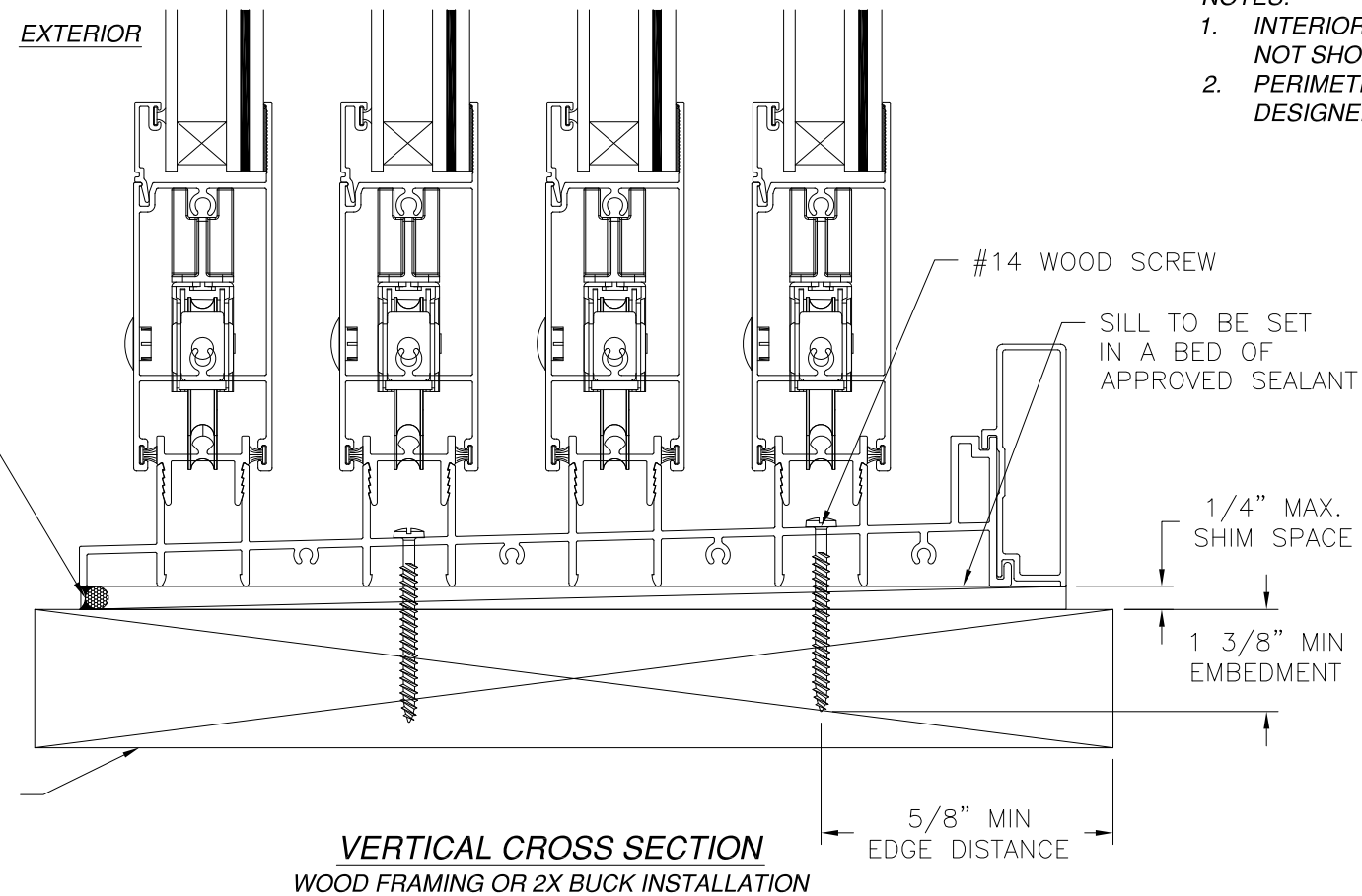
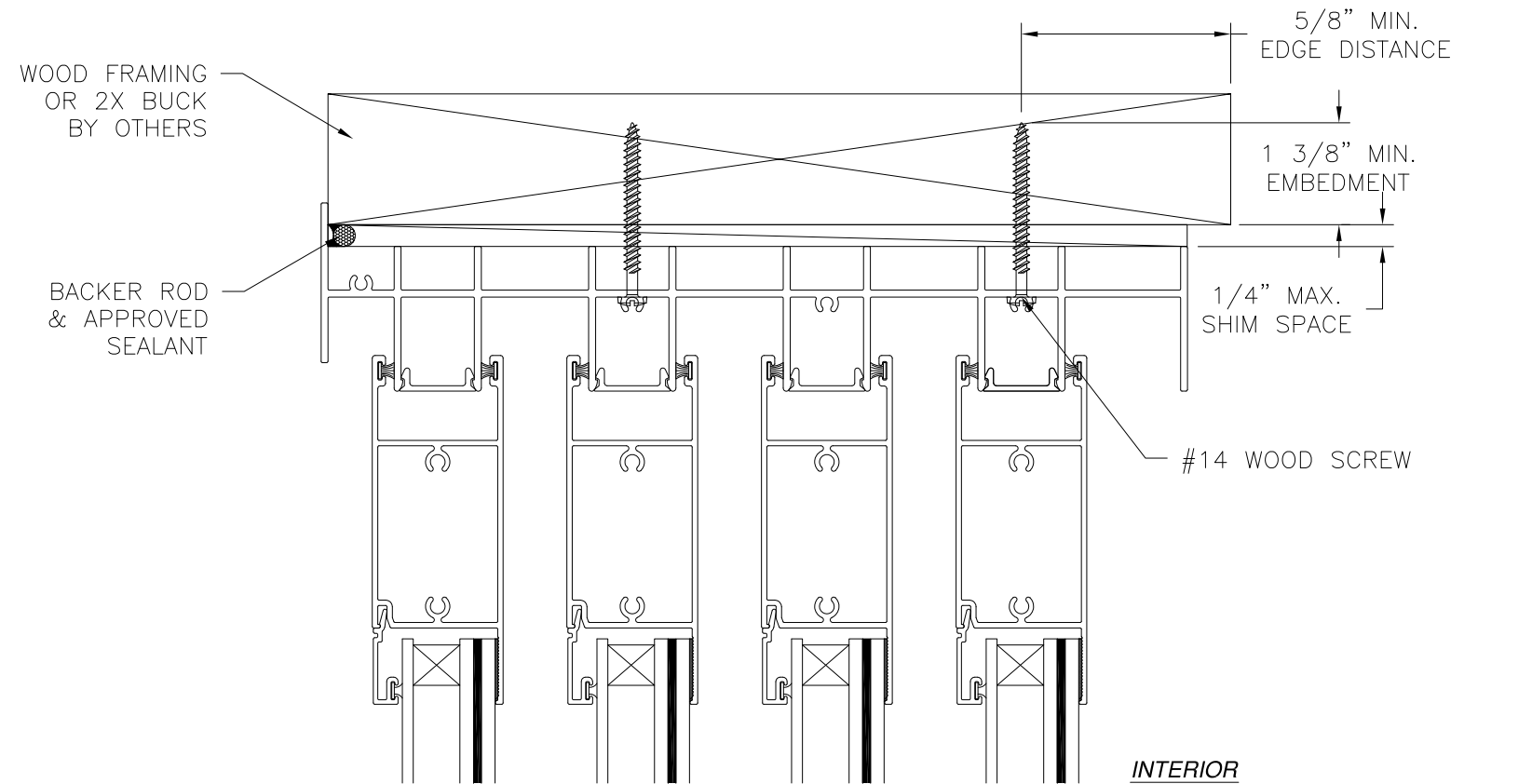
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DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 26 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



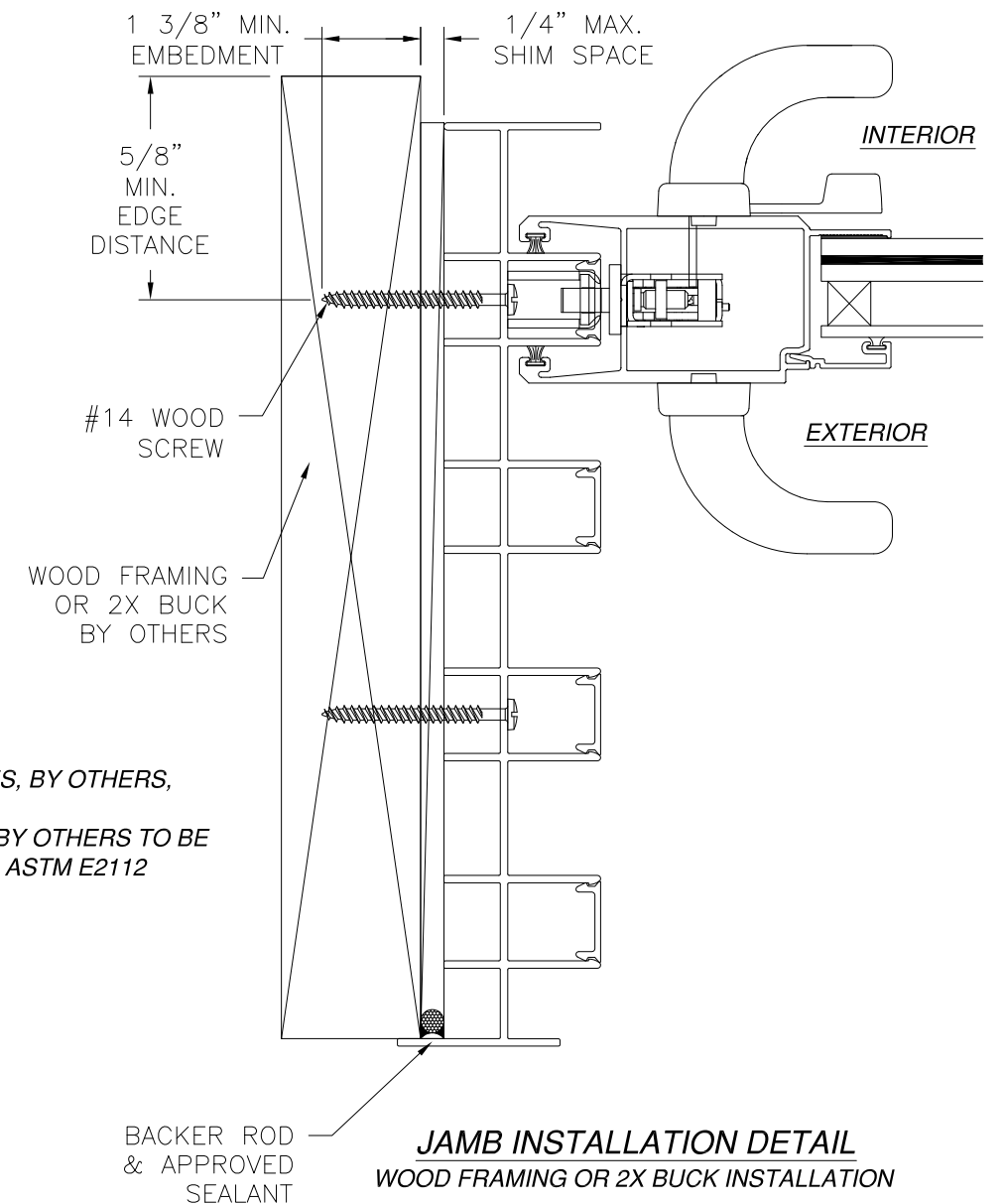
Luis R. Lomas P.E.
 FL No.: 62514



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

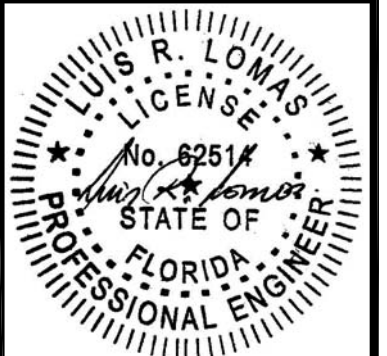
- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

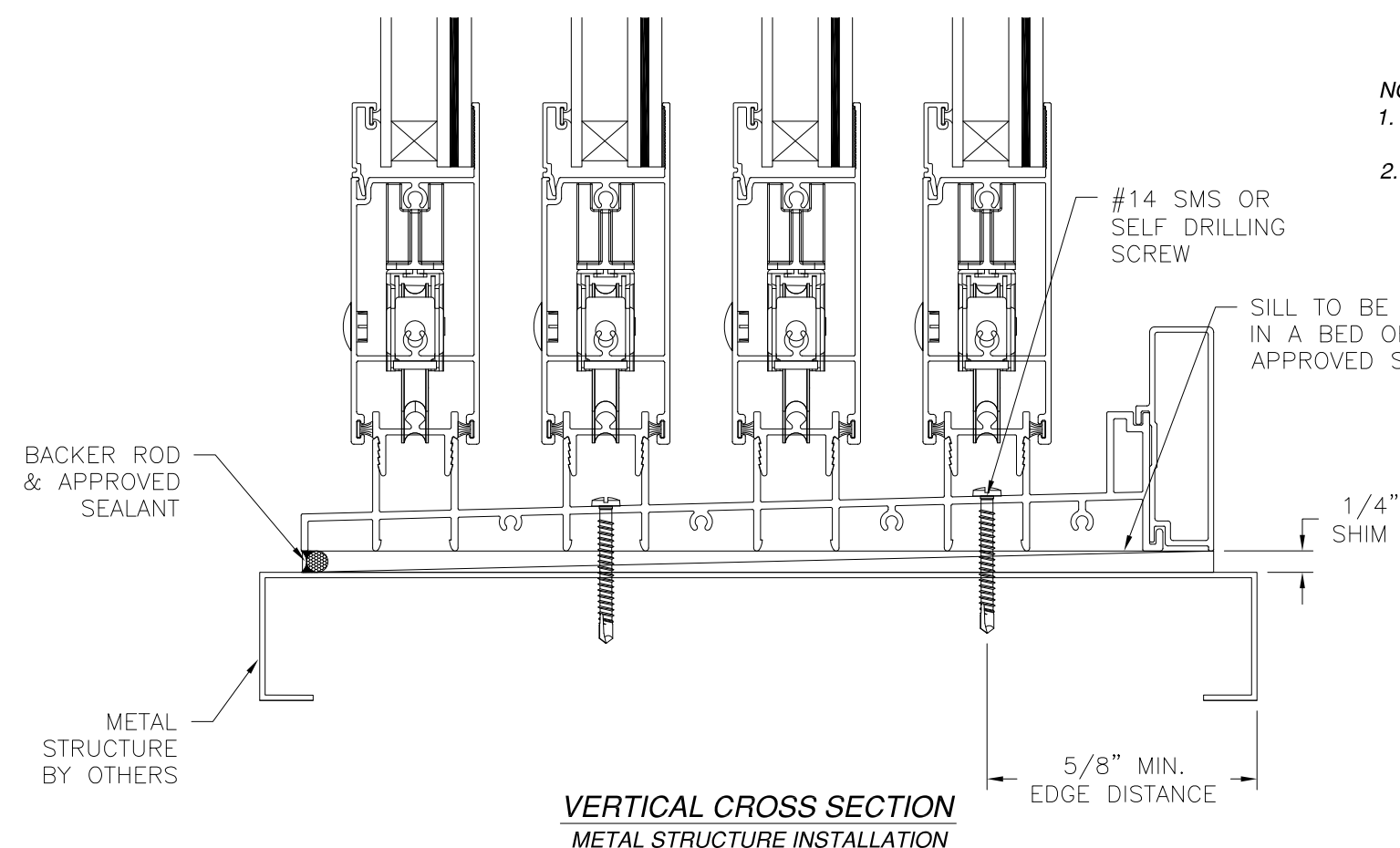
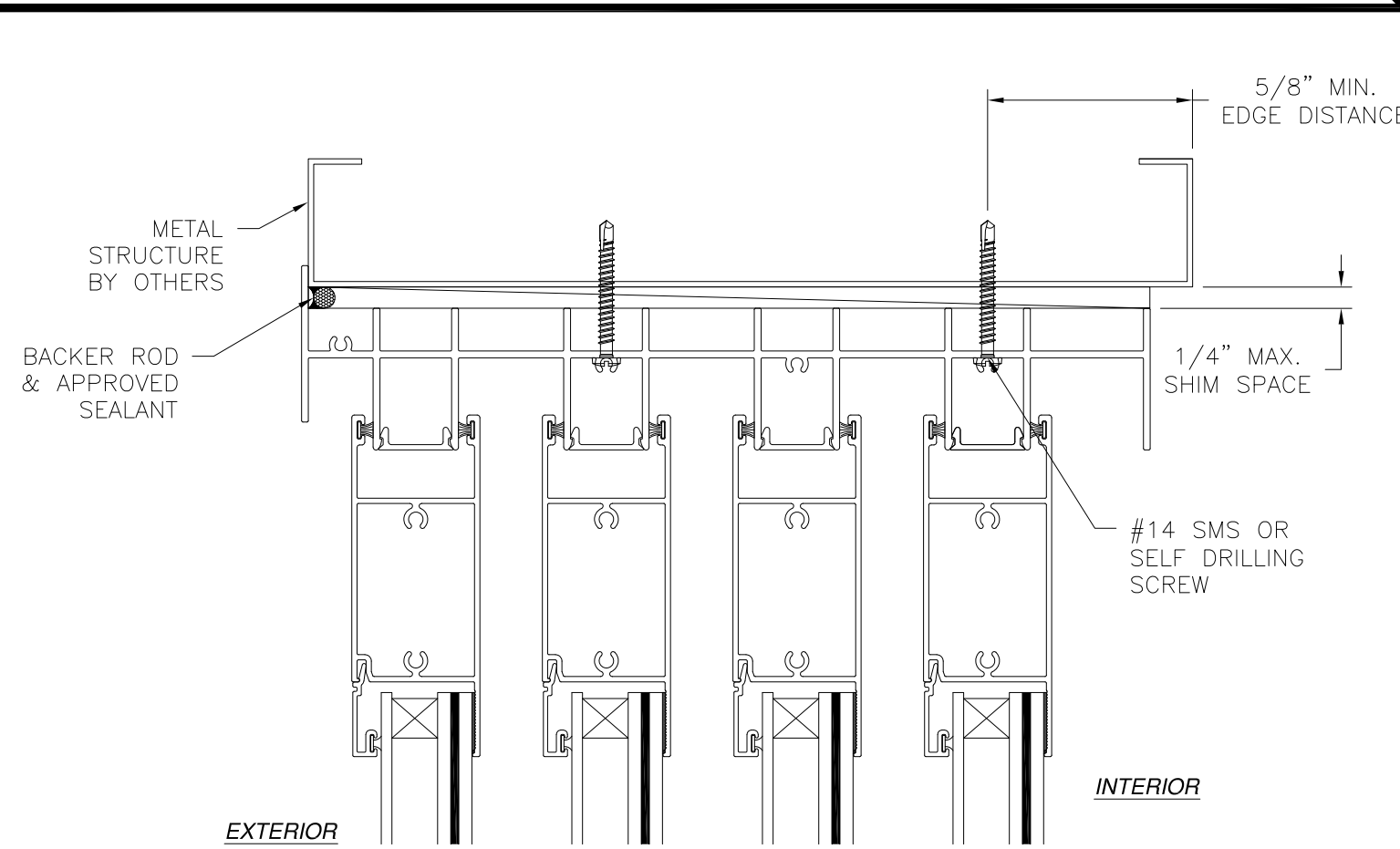


MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 4 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 27 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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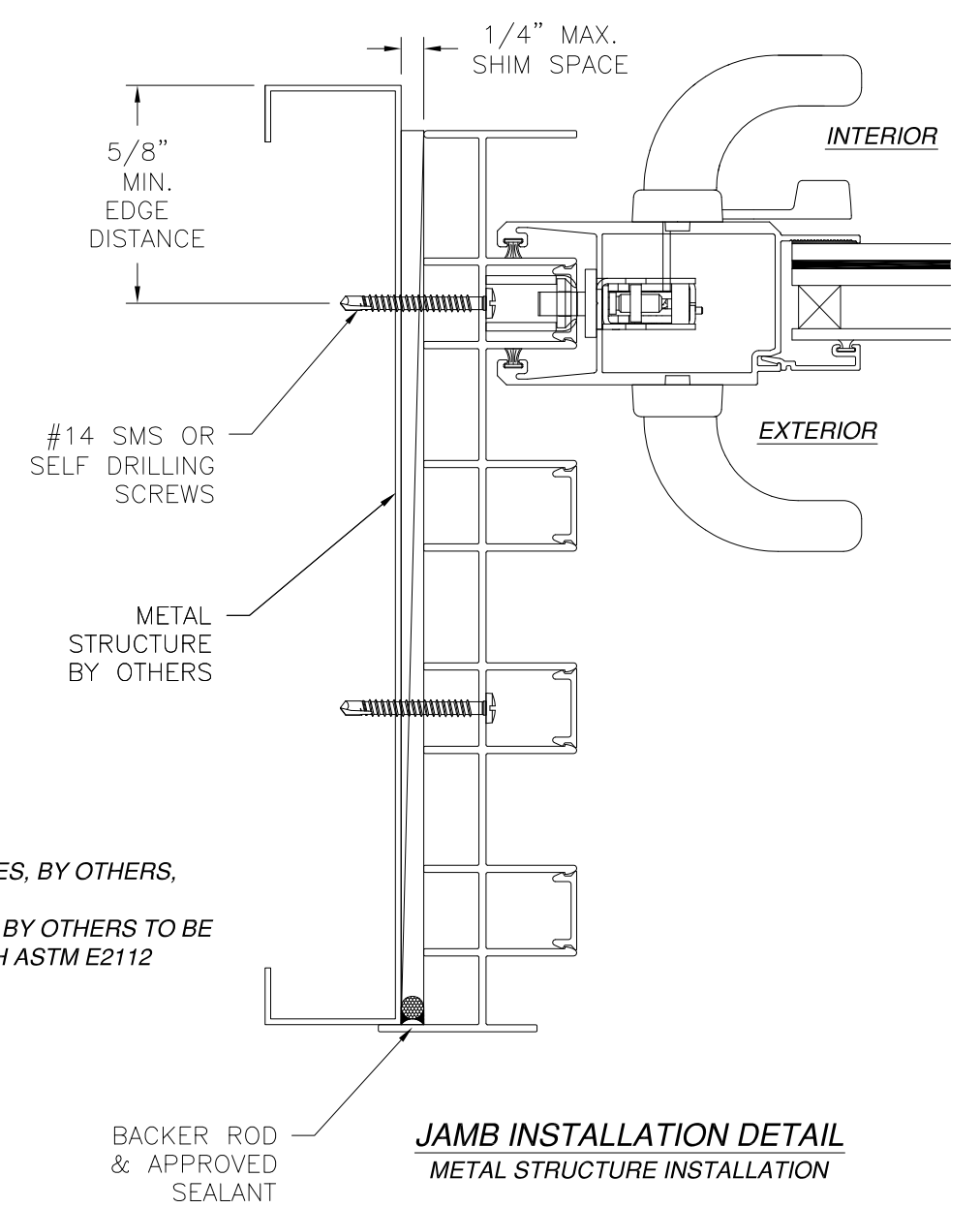
Luis R. Lomas P.E.
FL No.: 62514



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
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

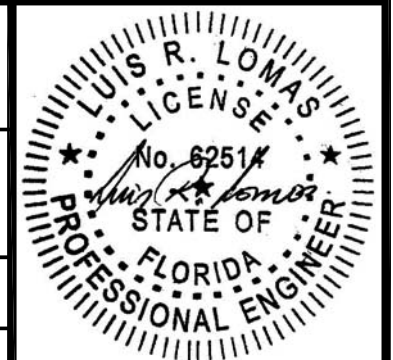
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
4 TRACK FLANGE INSTALLATION DETAILS

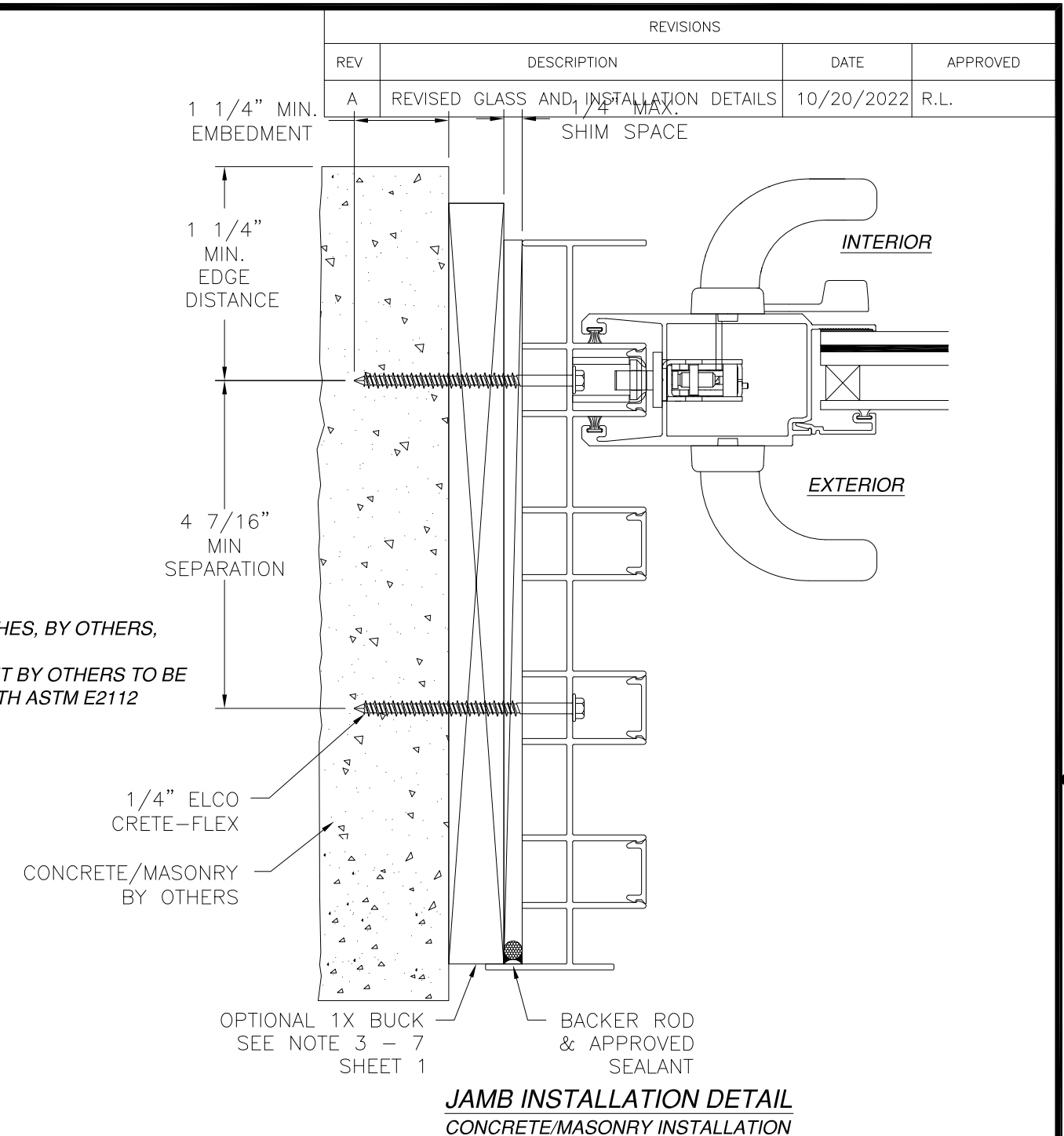
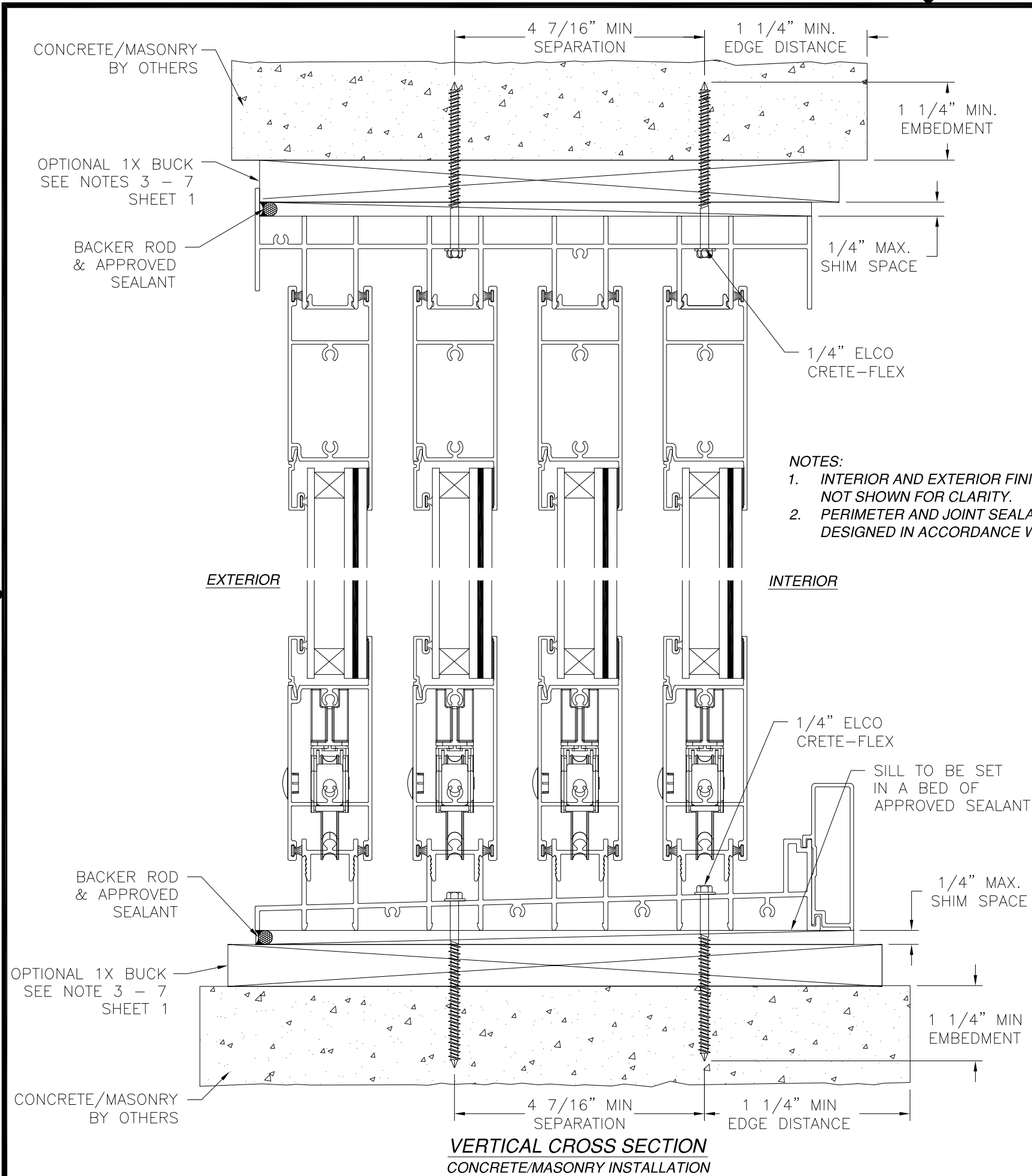
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 28 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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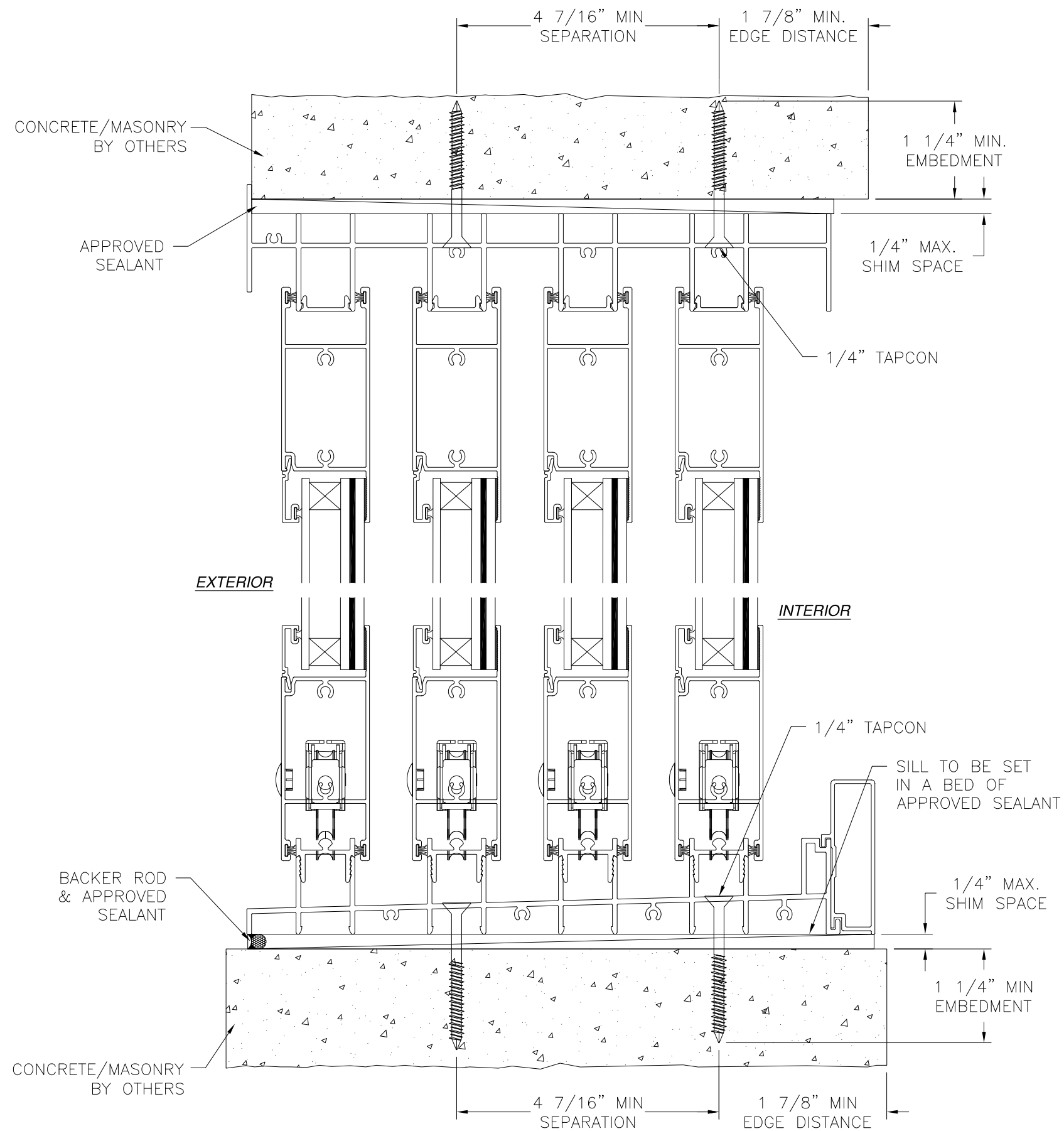
Luis R. Lomas P.E.
FL No.: 62514



MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 4 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 29 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
HEAD AND SILL SHOWN, JAMBS SIMILAR

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

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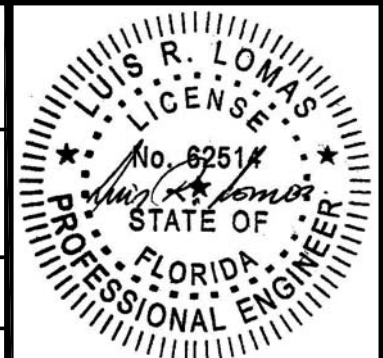
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
4 TRACK FLANGE INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 30 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

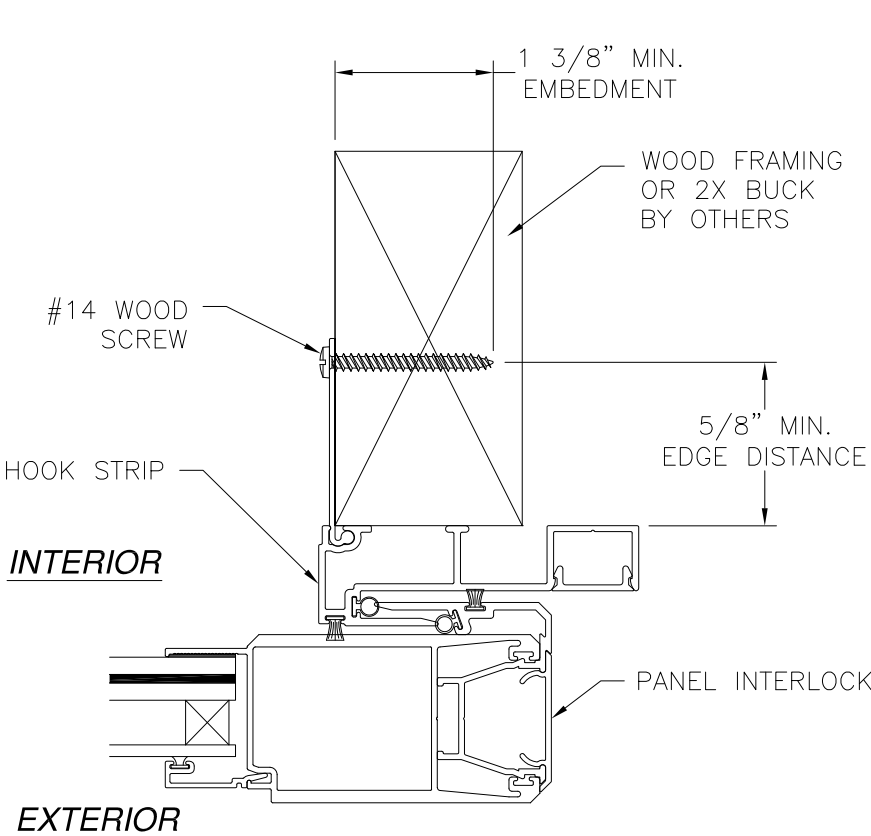
SIGNED: 11/03/2022



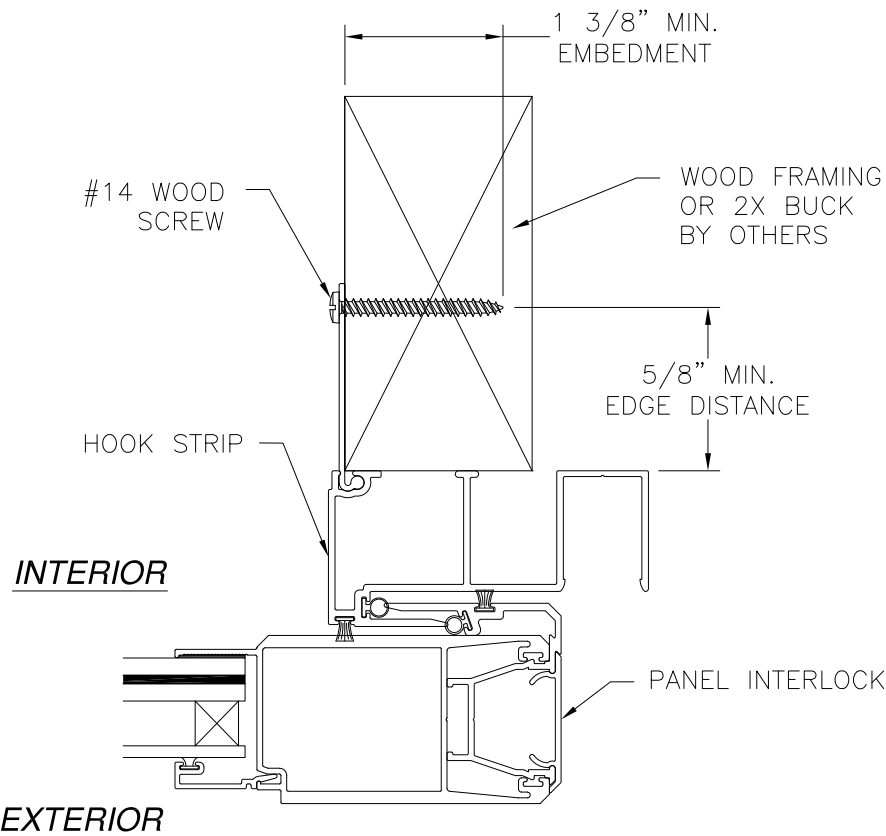
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.

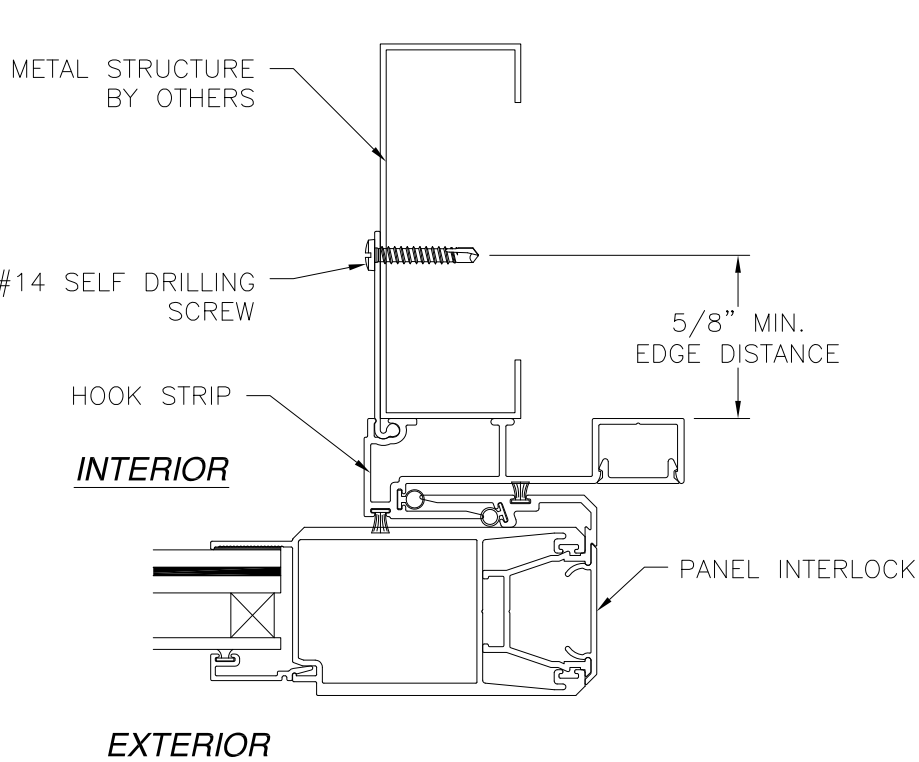
NOTES:
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



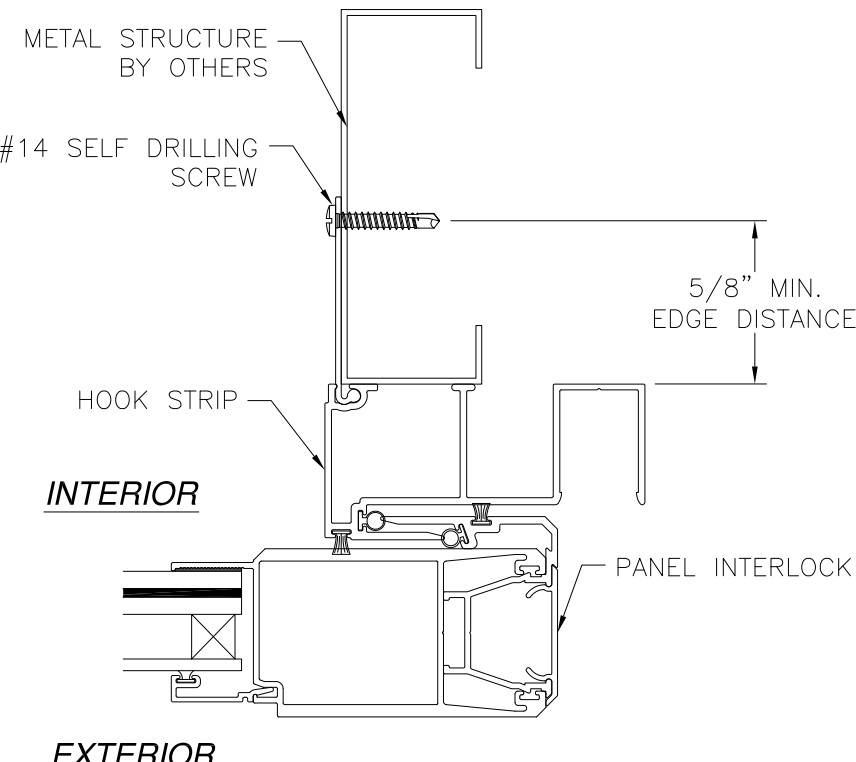
HOOK STRIP (M-2533) INSTALLATION
2X BUCK/WOOD FRAMING



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
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
HOOK INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03321

REV
A

SCALE NTS

DATE 09/19/18

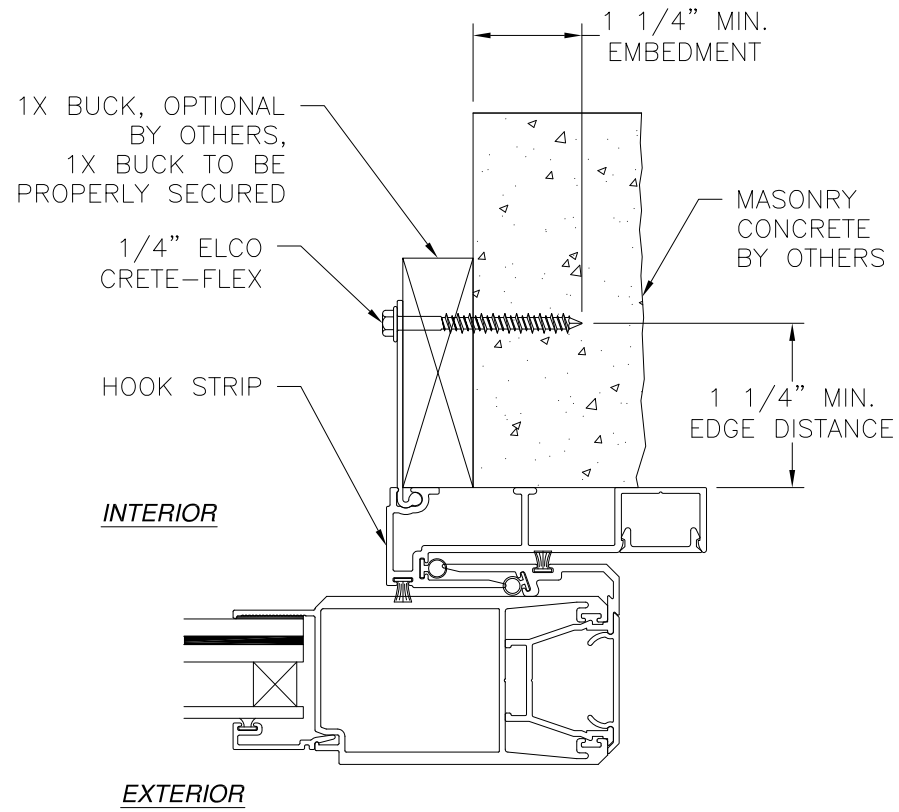
SHEET 31 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

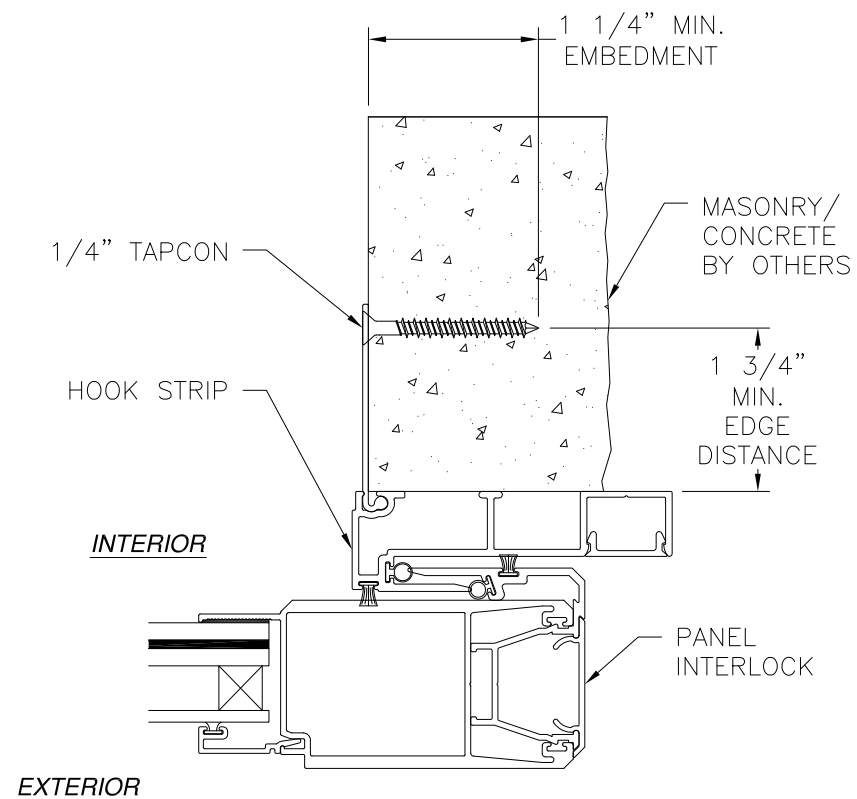
SIGNED: 11/03/2022



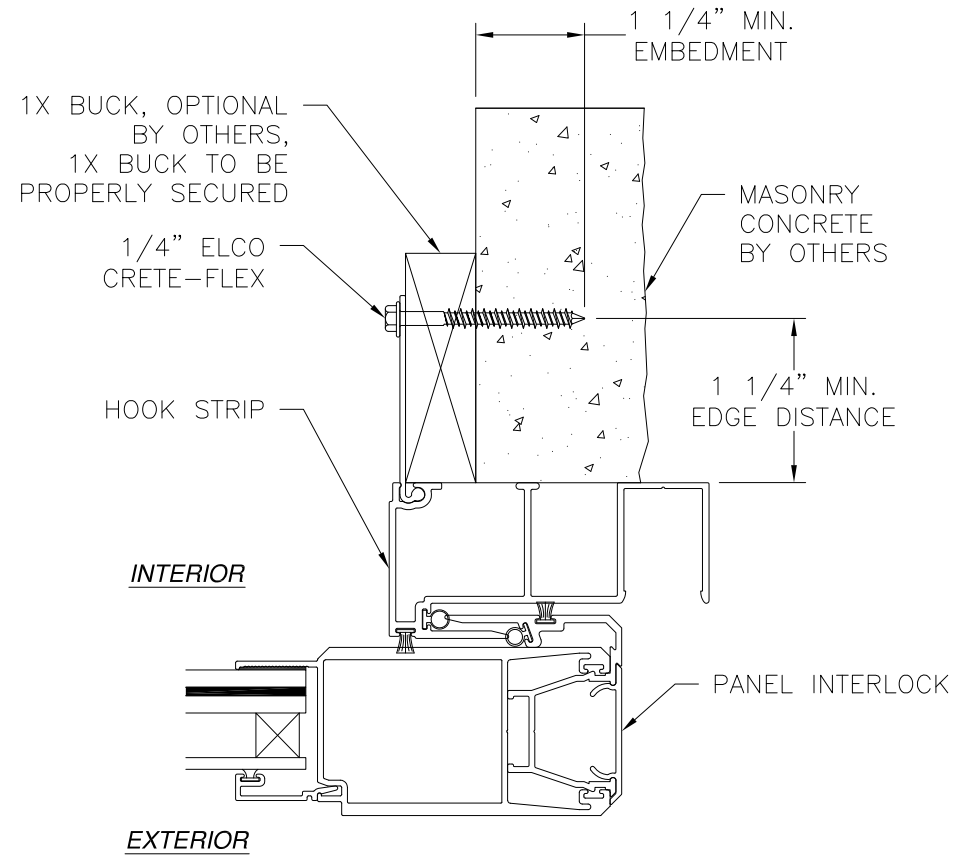
Luis R. Lomas P.E.
FL No.: 62514



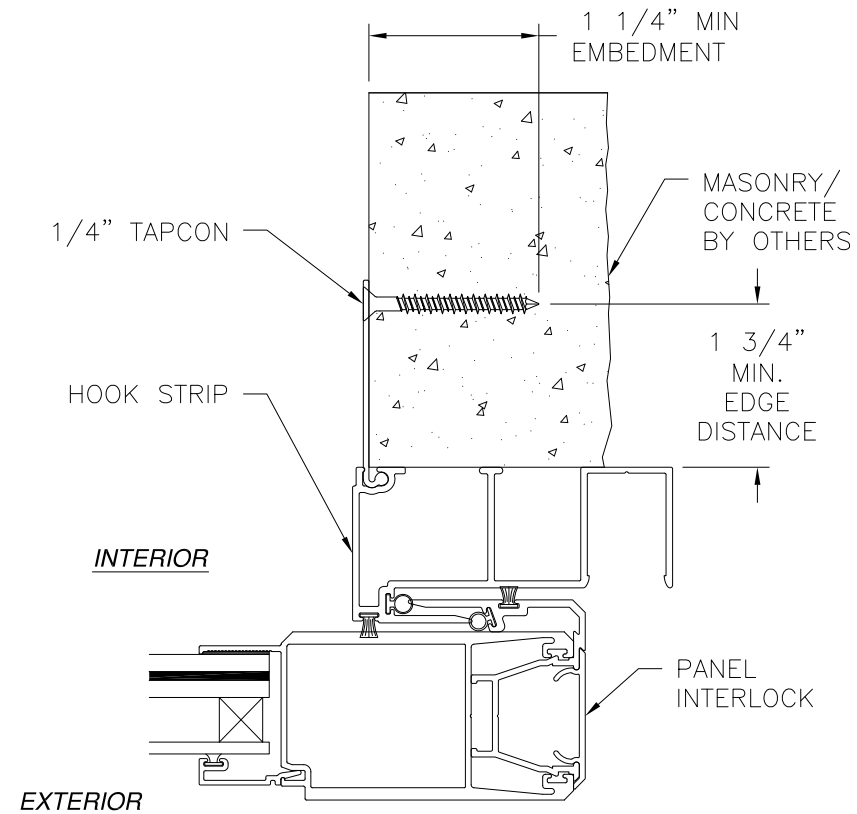
HOOK STRIP (M-2533) INSTALLATION
MASONRY/CONCRETE



HOOK STRIP (M-2533) INSTALLATION
MASONRY/CONCRETE

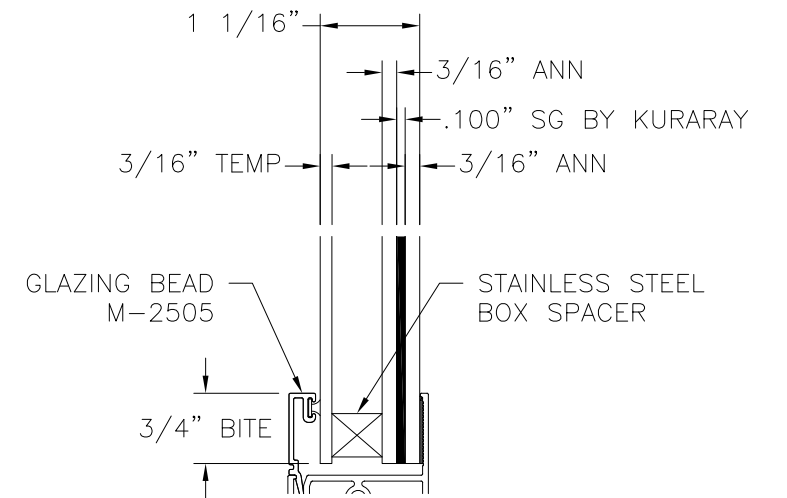


HOOK STRIP (M-2534) INSTALLATION
MASONRY/CONCRETE

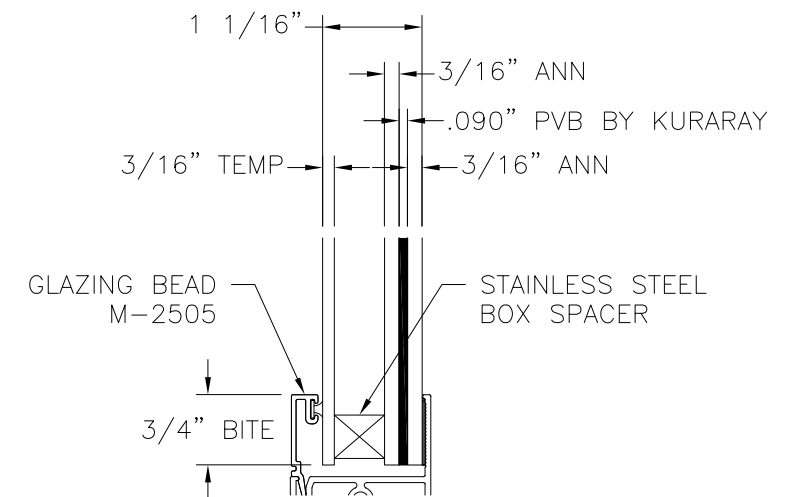


HOOK STRIP (M-2534) INSTALLATION
MASONRY/CONCRETE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



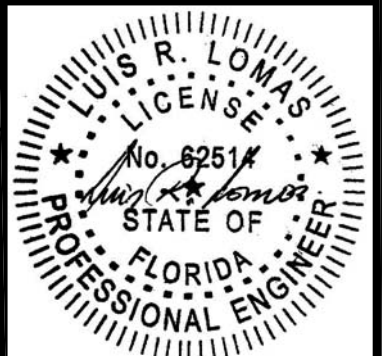
GLAZING DETAIL A



GLAZING DETAIL B

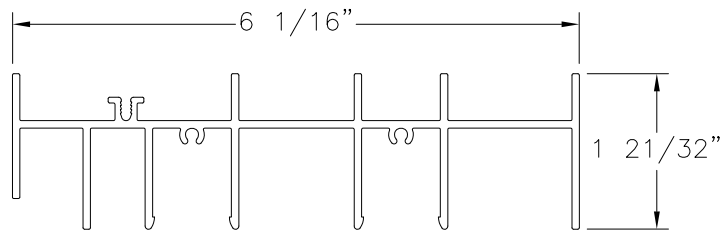
SIGNED: 11/03/2022

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT HOOK INSTALLATION DETAILS & GLAZING DETAIL		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 32 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

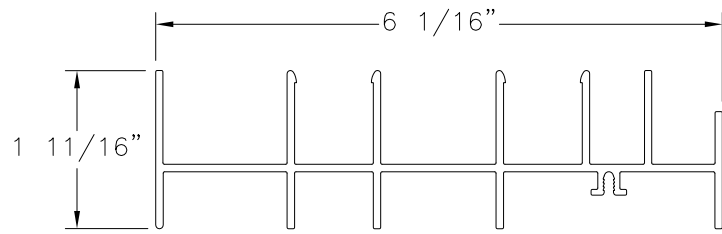


Luis R. Lomas P.E.
FL No.: 62514

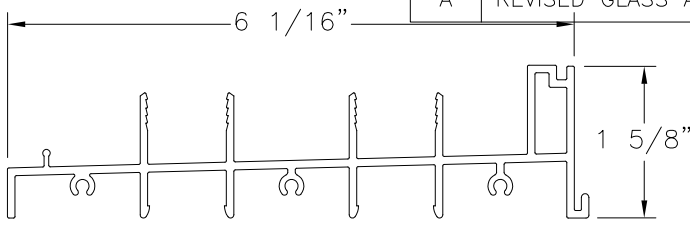
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/20/2022	R.L.



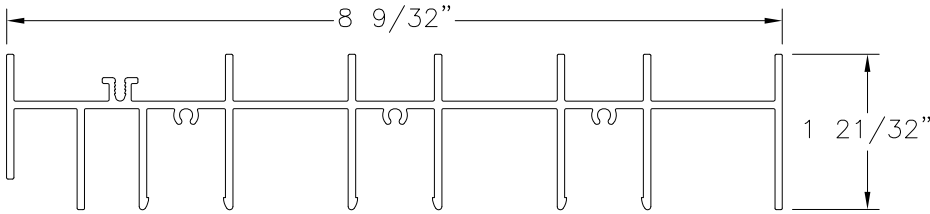
FRAME HEAD 2TRACK, FINLESS
ALUMINUM 6005-T5 (M-2520)



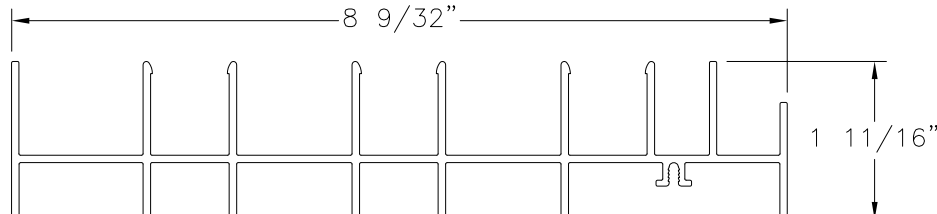
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ALUMINUM 6005-T5 (M-2523)



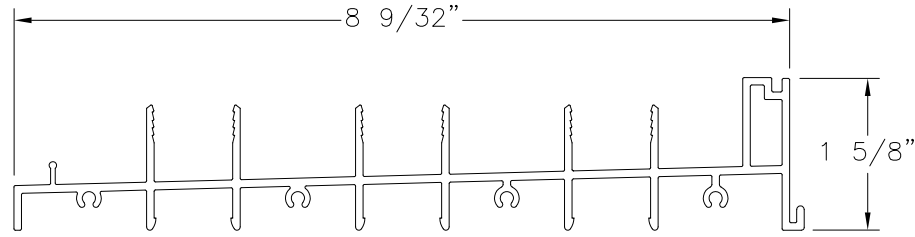
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ALUMINUM 6005-T5 (M-2522)



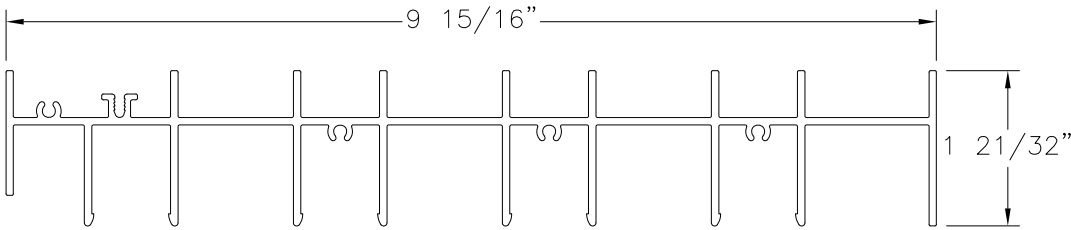
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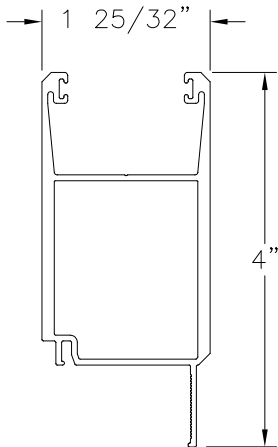
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ALUMINUM 6005-T5 (M-2523)



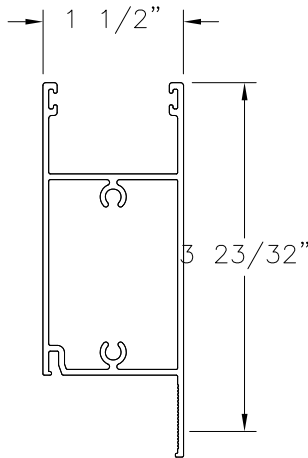
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ALUMINUM 6005-T5 (M-2522)



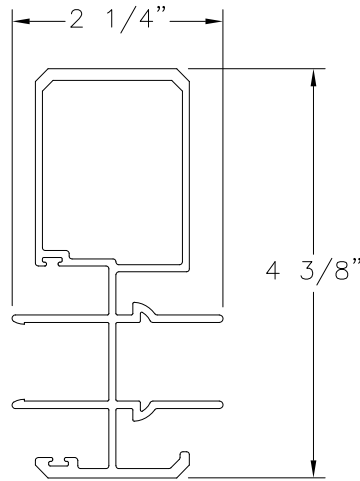
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ALUMINUM 6005-T5 (M-2520)



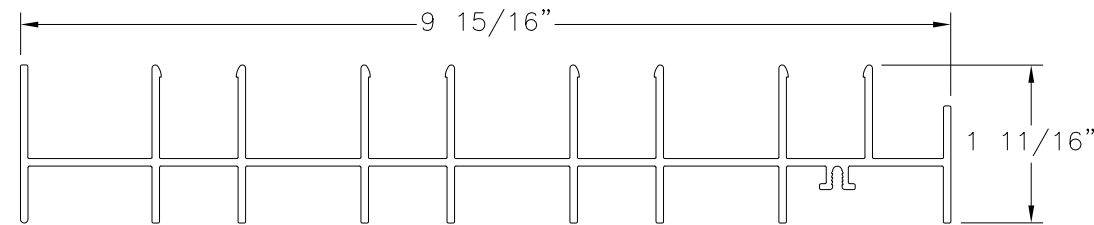
PANEL STILE
ALUMINUM 6005-T5 (M-2502)



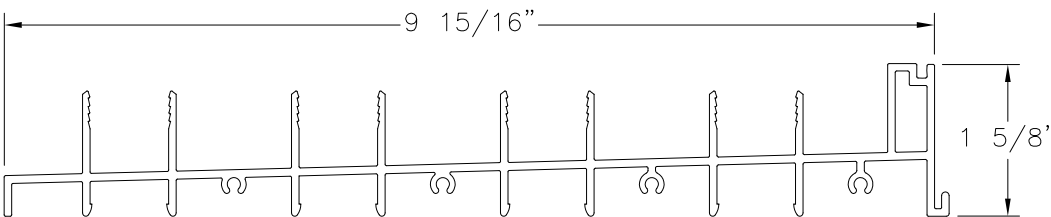
PANEL TOP RAIL
ALUMINUM 6005-T5 (M-2500)



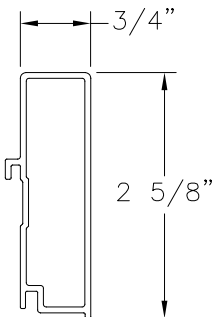
4-PANEL ADAPTER
ALUMINUM 6005-T5 (M-2518)



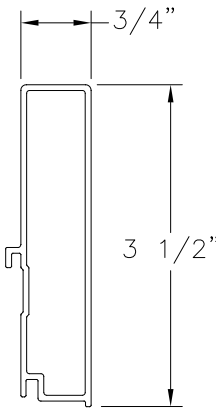
FRAME JAMB 4TRACK, FINLESS
ALUMINUM 6005-T5 (M-2523)



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



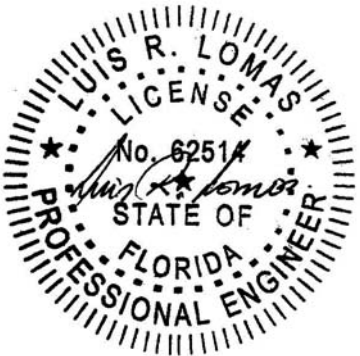
2 5/8" SILL EXTENDER
ALUMINUM 6063-T5 .062" THICK



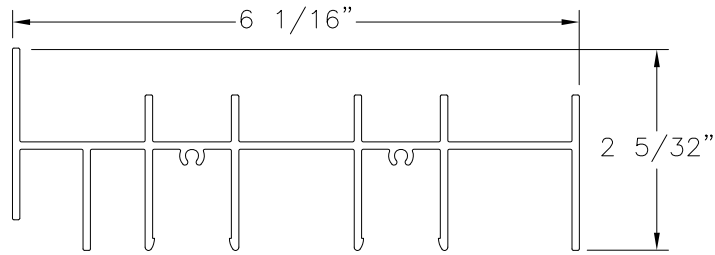
3 1/2" SILL EXTENDER
ALUMINUM 6063-T5 .062" THICK

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03321	REV A
SCALE NTS	DATE 09/19/18	SHEET 33 OF 34
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

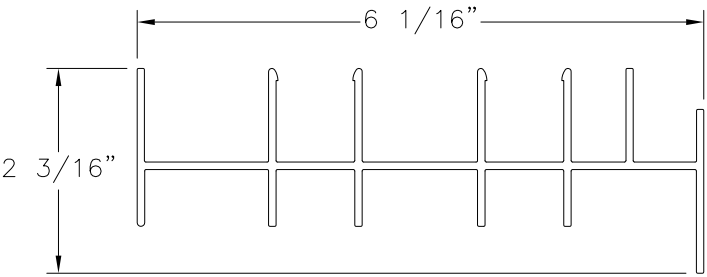
SIGNED: 11/03/2022



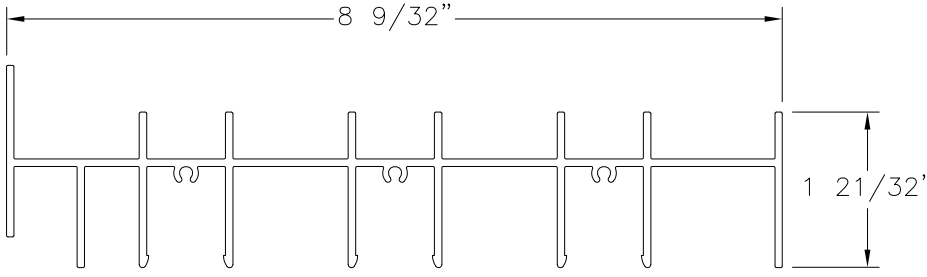
Luis R. Lomas P.E.
FL No.: 62514



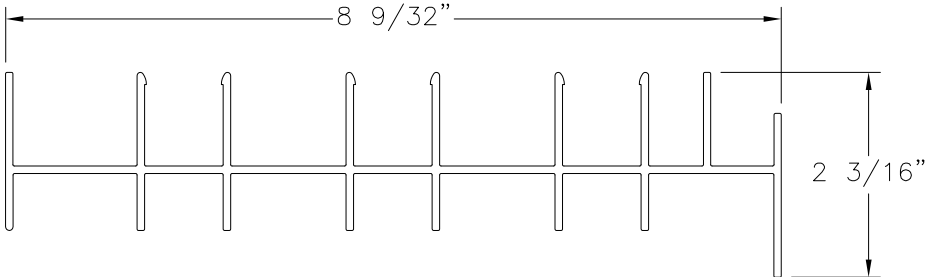
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ALUMINUM 6005-T5 (M-2520)



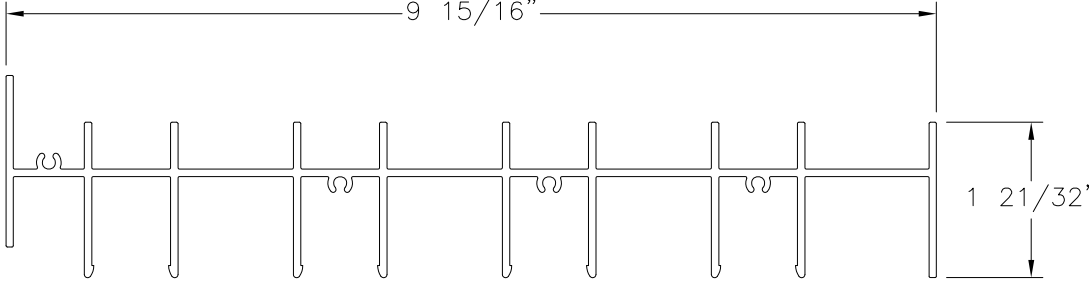
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ALUMINUM 6005-T5 (M-2523)



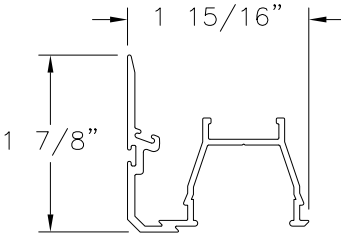
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ALUMINUM 6005-T5 (M-2520)



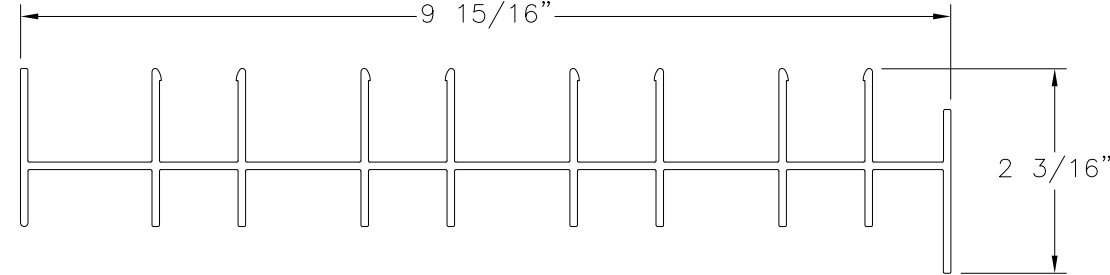
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ALUMINUM 6005-T5 (M-2523)



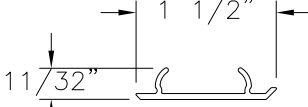
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ALUMINUM 6005-T5 (M-2520)



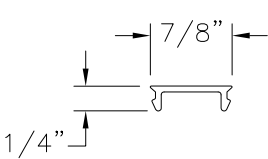
PANEL INTERLOCK
ALUMINUM 6005-T5 (M-2503)



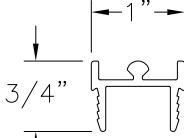
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ALUMINUM 6005-T5 (M-2523)



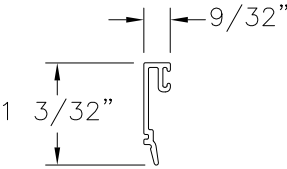
INTERLOCK COVER
ALUMINUM 6005-T5 (M-2504)



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

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
COMPONENTS

DRAWN:
A.R.

DWG NO.
08-03321

REV
A

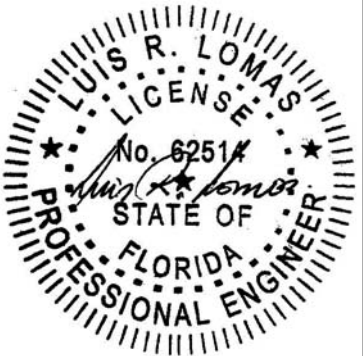
SCALE NTS

DATE 09/19/18

SHEET 34 OF 34

L. ROBERTO LOMAS P.E.
400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/03/2022



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