

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED REINFORCEMENTS	06/10/13	R.L.
B	ADDED FLANGE INSTALLATIONS	12/09/13	R.L.
C	REVISED INSTALLATION DETAILS	10/13/15	R.L.
D	REVISED INSTALLATION DETAILS	06/22/17	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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. 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.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: ALUMINUM 6063-T5.
6. UNITS MUST BE GLAZED PER ASTM E1300-04/09, WITH SAFETY GLASS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. DOOR ASSEMBLIES INSTALLED WHERE OVERHANG RATIO IS EQUAL OR GREATER THAN 1.0 DO NOT REQUIRE WATER INFILTRATION RESISTANCE.
OVERHANG RATIO = OVERHANG LENGTH/OVERHANG HEIGHT
10. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
13. ALL FASTENERS TO BE CORROSION RESISTANT.

14. 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 3,192 PSI.
 - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE – STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .048" THICK MINIMUM
15. APPROVED CONFIGURATIONS: 0X, XO, XIIX, XIP, PIX, PIIX, XIIP, PIIIX, XIIIP.

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MI WINDOWS AND DOORS LLC

650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 440 XIIX SGD REINFORCED
NON – IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08-01885

REV
D

SCALE NTS

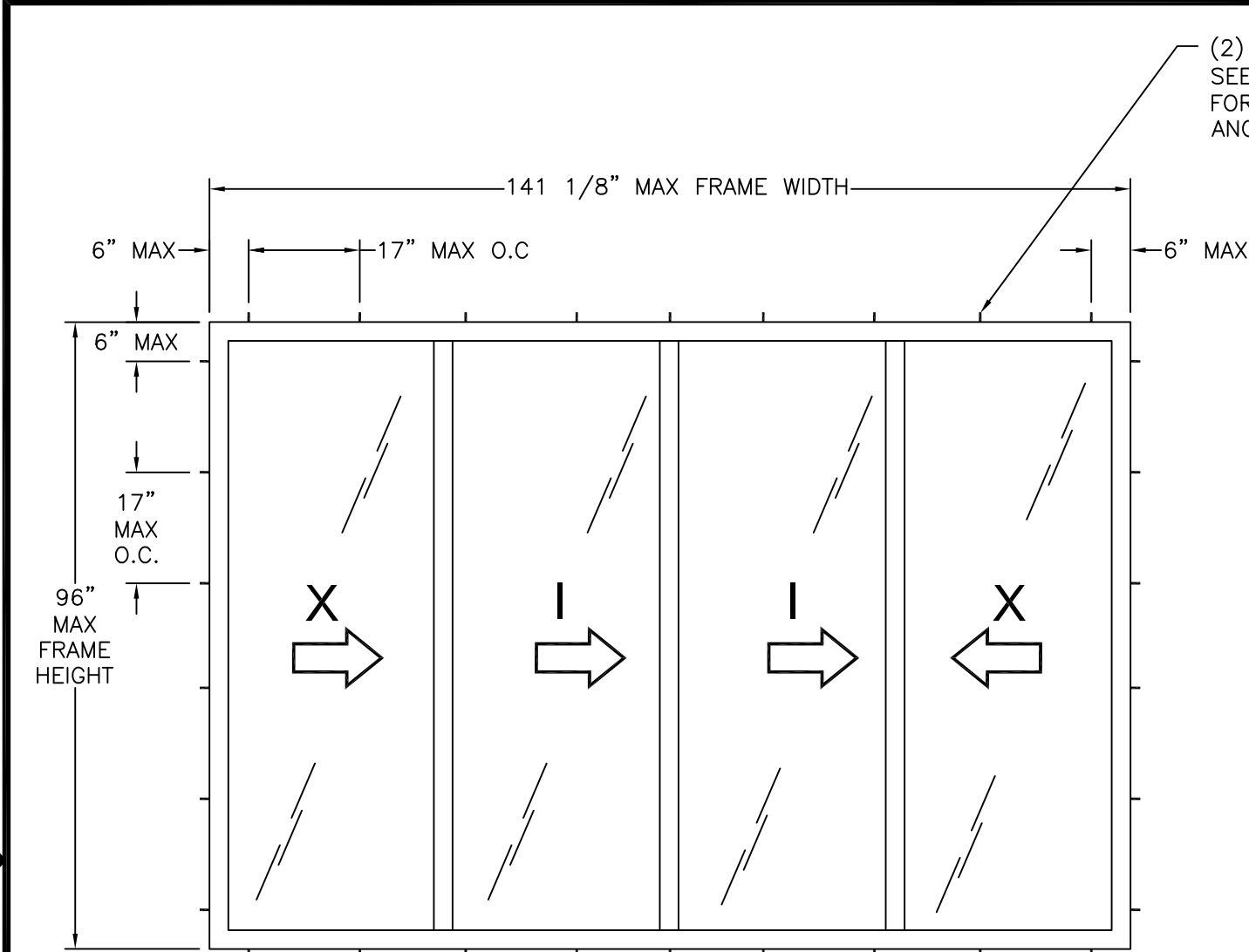
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SHEET 1 OF 9

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SIGNED: 06/22/2017

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SERIES 440 XIIX SGD REINFORCED
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+35.0/-40.0PSF	NONE

REFER TO CHARTS #1 & #2 FOR OTHER UNITS RATINGS

(2) ANCHORS PER LOCATION
SEE CHART #3
FOR NUMBER OF
ANCHORS REQUIRED

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CHART #1
WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.
SEE NOTE 9 SHEET 1

Design pressure chart (psf)								
Frame Height (in)	Single Panel and Total Frame Width (in)							
	24.0		27.0		30.0		35.3	
	96.00		108.00		120.00		141.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	50.0	60.0	50.0	60.0	50.0	58.5	45.4	51.9
80.0	50.0	60.0	50.0	60.0	49.6	56.7	44.0	50.3
84.0	50.0	60.0	50.0	58.1	46.7	53.4	41.3	47.2
88.0	50.0	60.0	48.1	54.9	44.2	50.5	39.0	44.5
92.0	50.0	57.6	45.6	52.1	41.9	47.8	36.9	42.2
96.0	48.0	54.8	43.4	49.6	39.8	45.5	35.0	40.0

CHART #2
WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.
SEE NOTE 9 SHEET 1

Design pressure chart (psf)								
Frame Height (in)	Single Panel and Total Frame Width (in)							
	24.0		27.0		30.0		35.3	
	96.00		108.00		120.00		141.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	60.0	60.0	55.5	60.0	51.2	58.5	45.4	51.9
80.0	59.2	60.0	53.9	60.0	49.6	56.7	44.0	50.3
84.0	56.0	60.0	50.8	58.1	46.7	53.4	41.3	47.2
88.0	53.0	60.0	48.1	54.9	44.2	50.5	39.0	44.5
92.0	50.4	57.6	45.6	52.1	41.9	47.8	36.9	42.2
96.0	48.0	54.8	43.4	49.6	39.8	45.5	35.0	40.0

CHART #3

Number of anchor locations required								
Frame Height (in)	Single Panel and Total Frame Width (in)							
	24.0		27.0		30.0		35.3	
	96.0		108.0		120.0		141.0	
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
78.0	7	5	8	5	8	5	9	5
80.0	7	5	8	5	8	5	9	5
84.0	7	6	8	6	8	6	9	6
88.0	8	6	8	6	8	6	9	6
92.0	8	6	8	6	8	6	9	6
96.0	8	6	8	6	8	6	9	6

- NOTES:
1. MAXIMUM PANEL SIZE: 36 1/2" x 95"
 2. MAXIMUM D.L.O.: 32 1/2" x 90 5/8"

HARDWARE SCHEDULE	
A.	(1) FLAT MOUNTED HANDLE SET (99-04-145) AT 38 3/4" FROM PANEL BOTTOM
B.	(1) METALLIC TANDEM ROLLERS (99-17-195) AT EACH END OF PANEL BOTTOM RAILS
C.	(3) EXTRUDED ALUMINUM RETAINERS (4221) AT FIXED PANEL JAMB STILE 7 1/4" FROM EACH END AND AT MID-SPAN
D.	ALUMINUM 6063-T6 REINFORCEMENT (668) AT ALL PANEL INTERLOCKS

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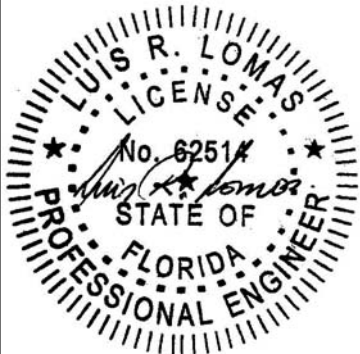
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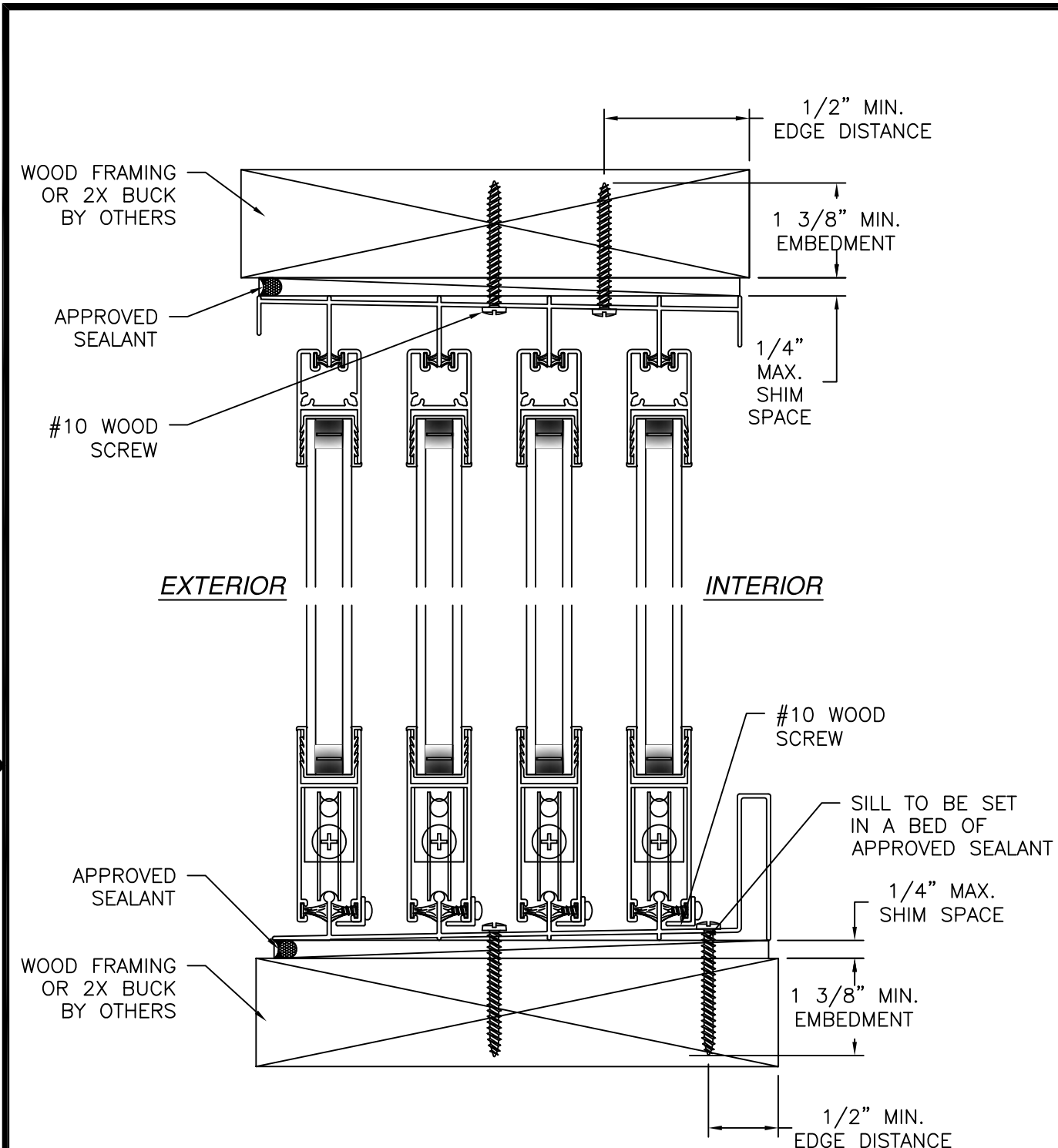
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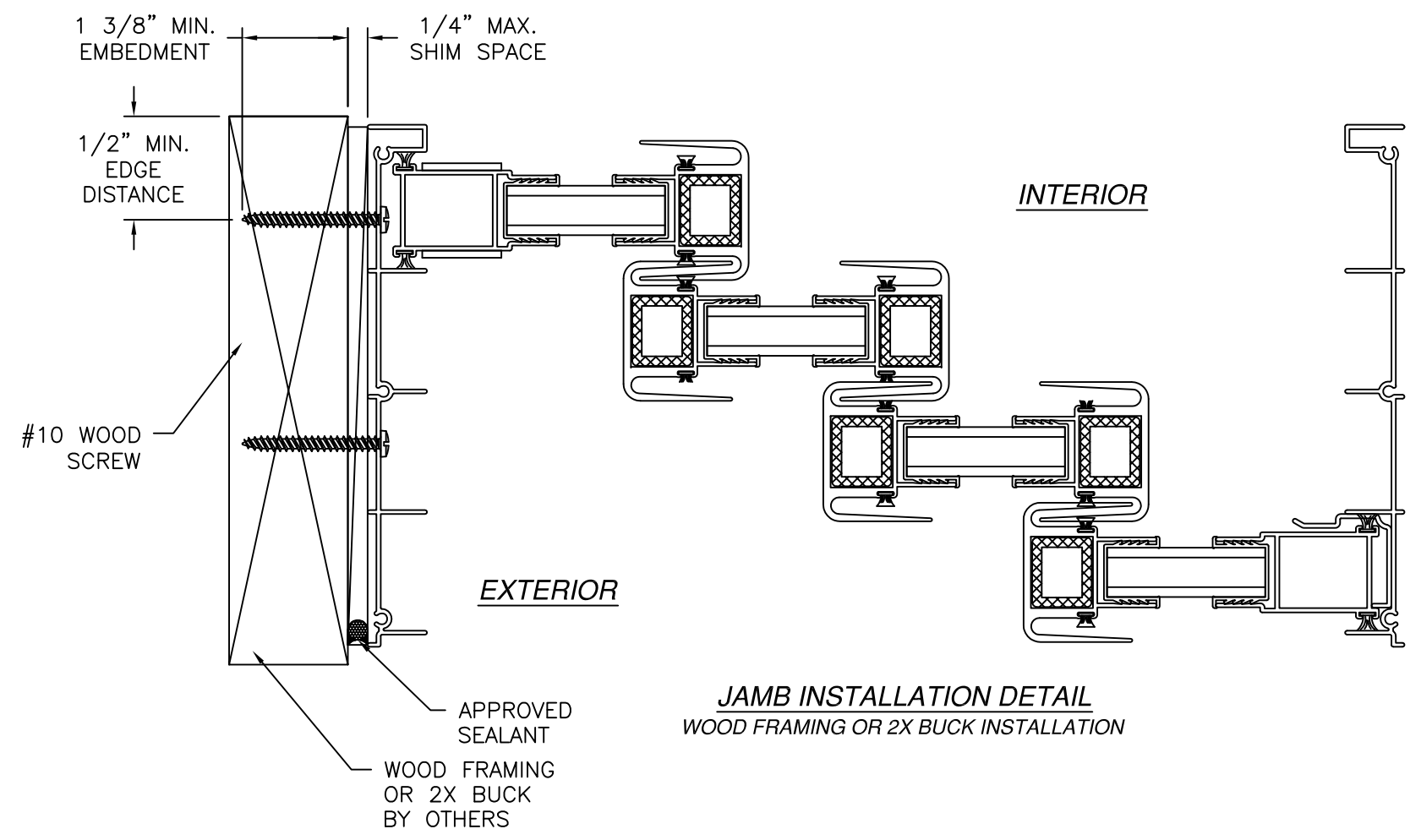
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Luis R. Lomas P.E.
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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NOTES:
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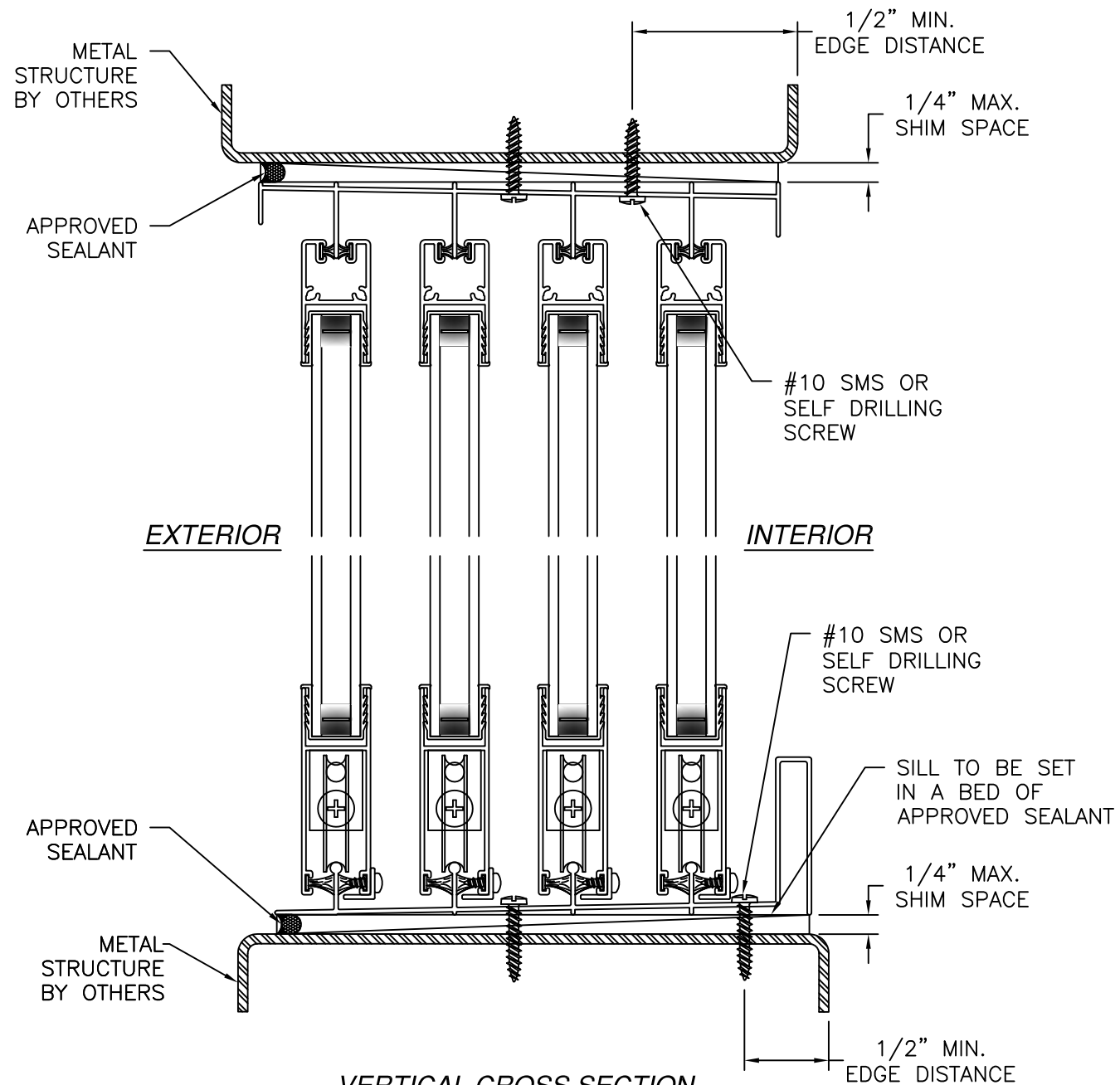
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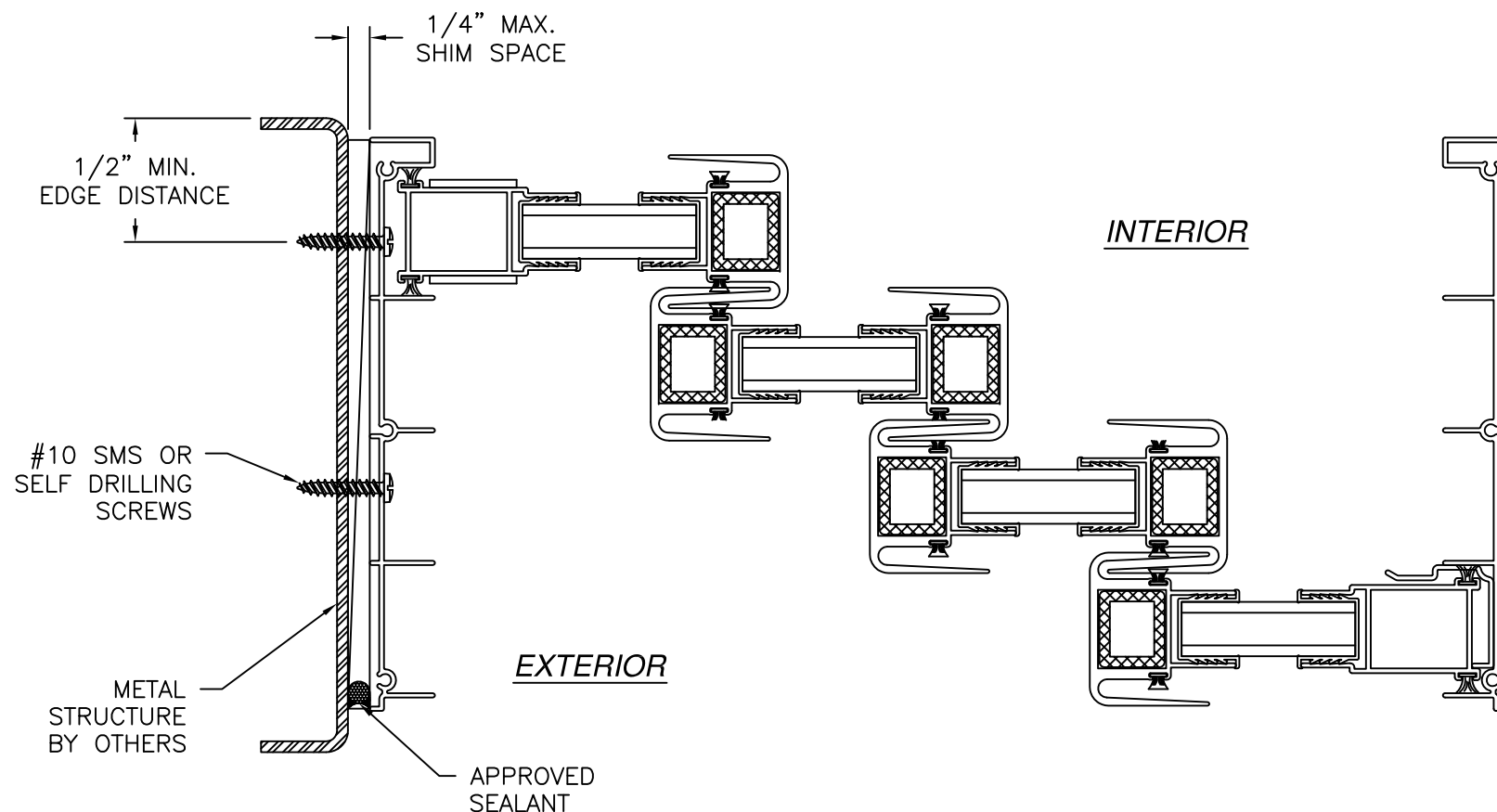
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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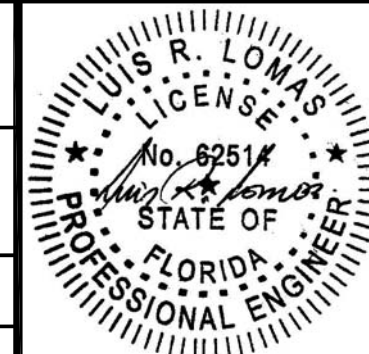
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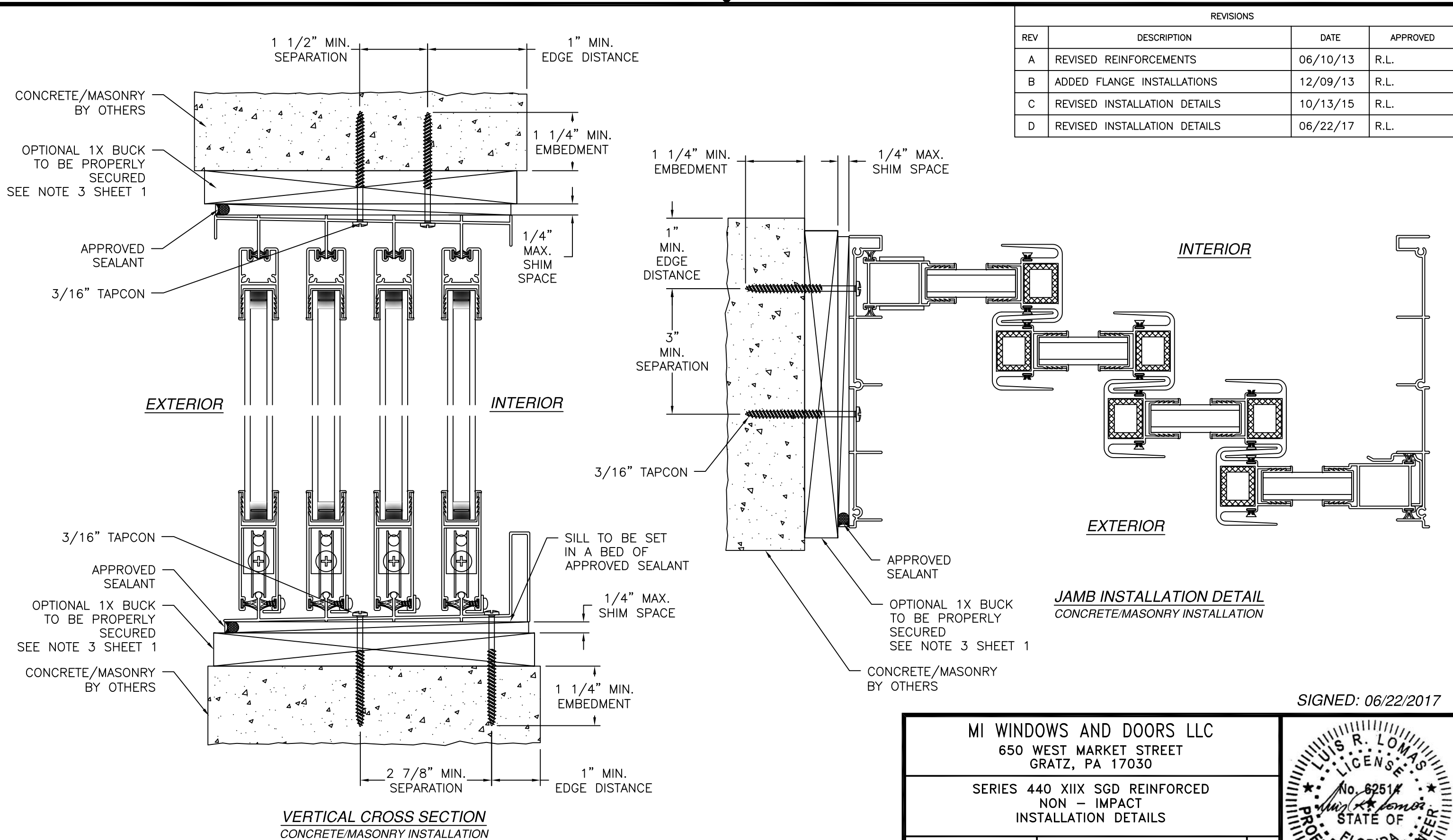
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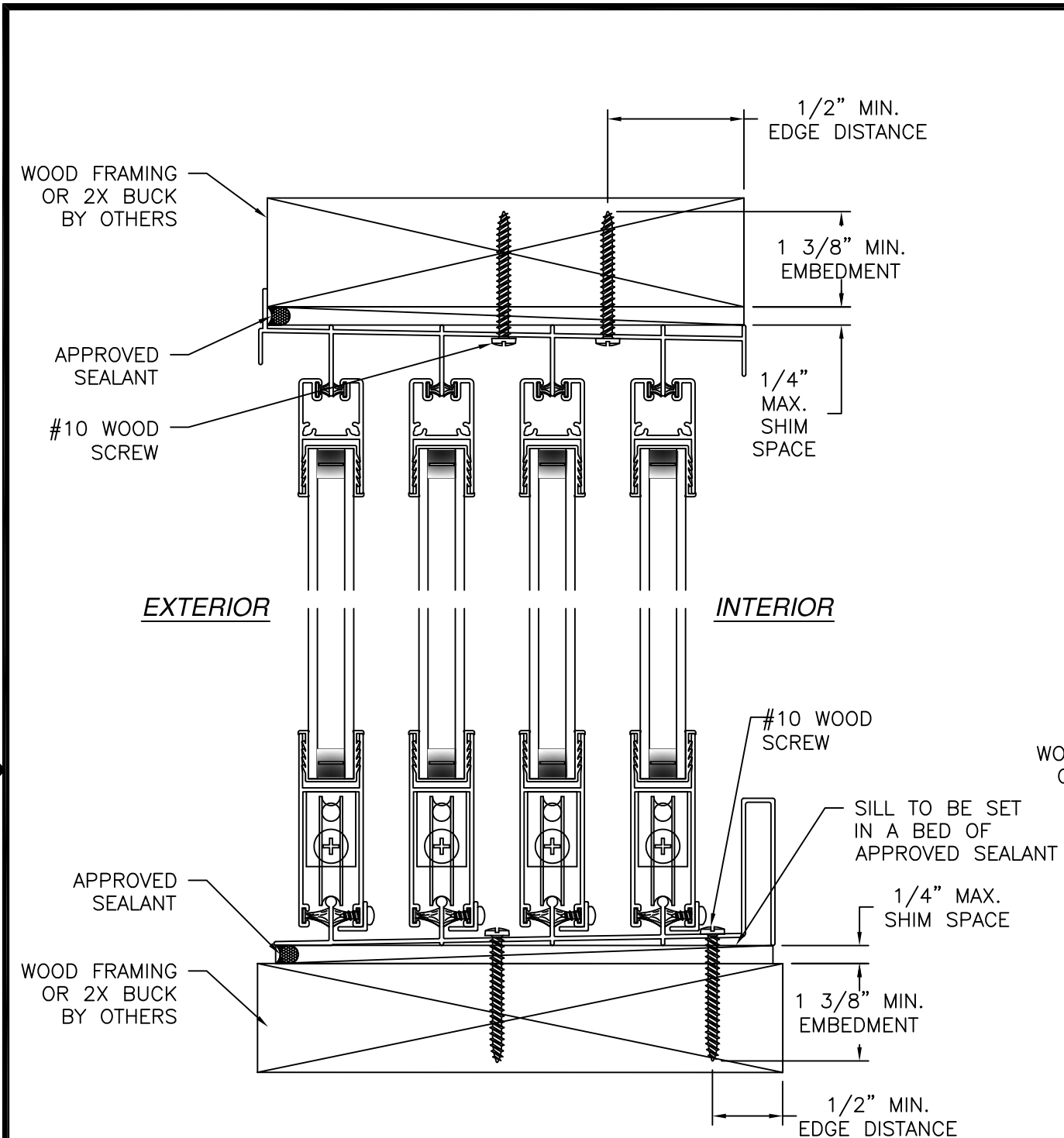
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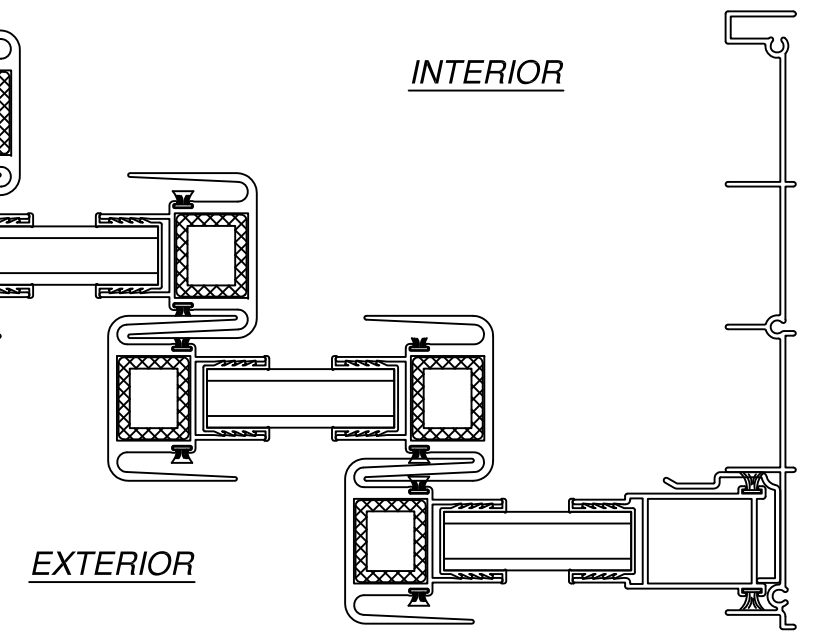
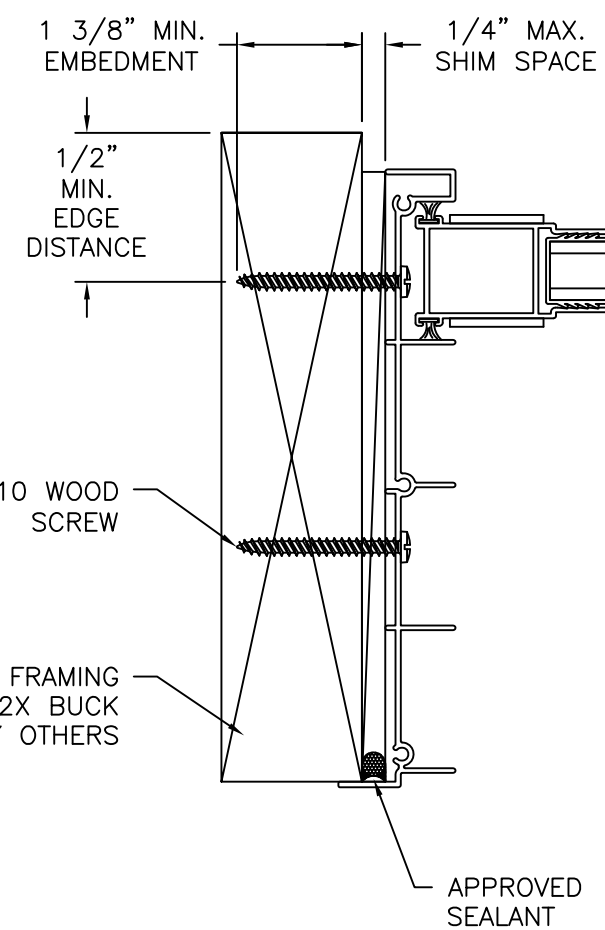
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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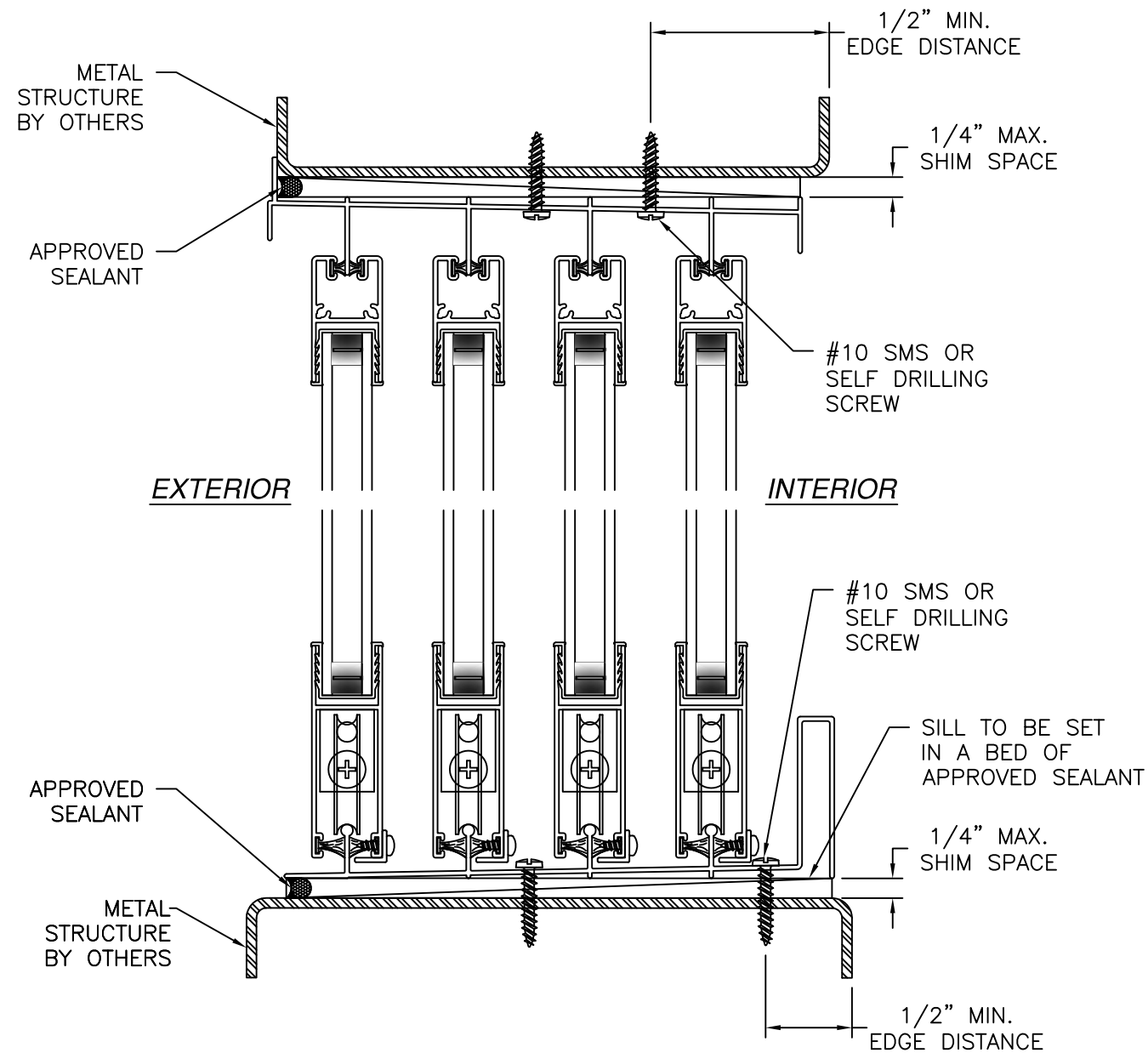
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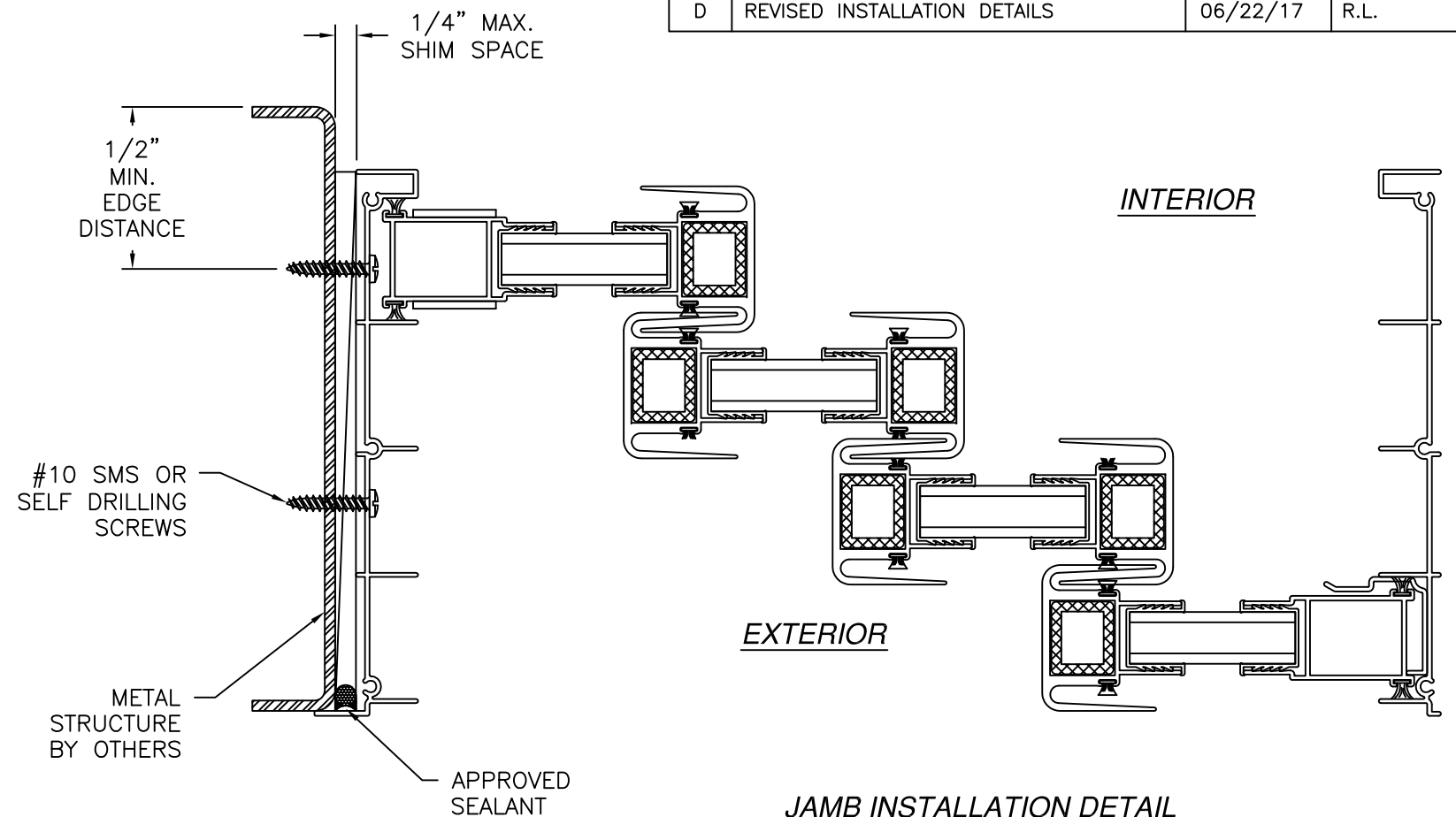
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



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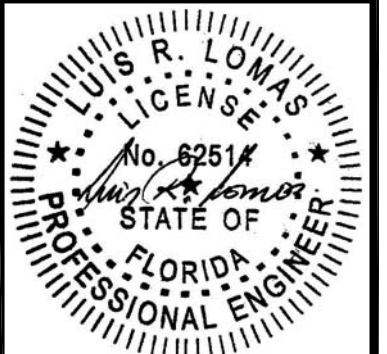
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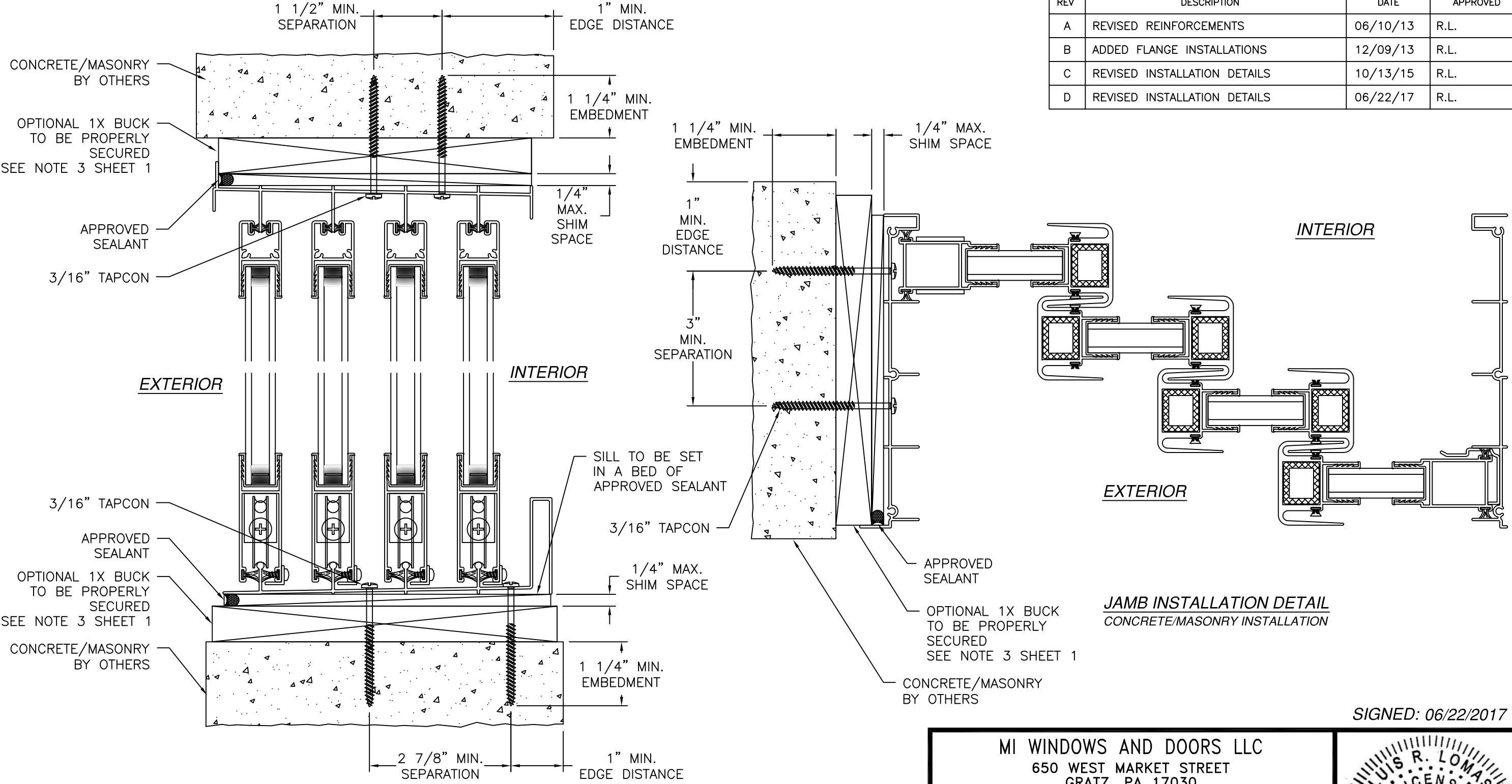
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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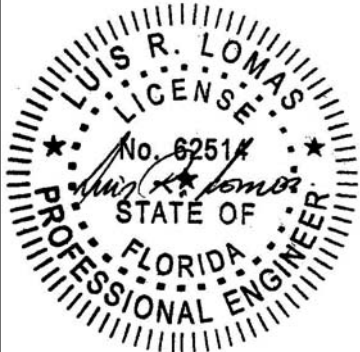
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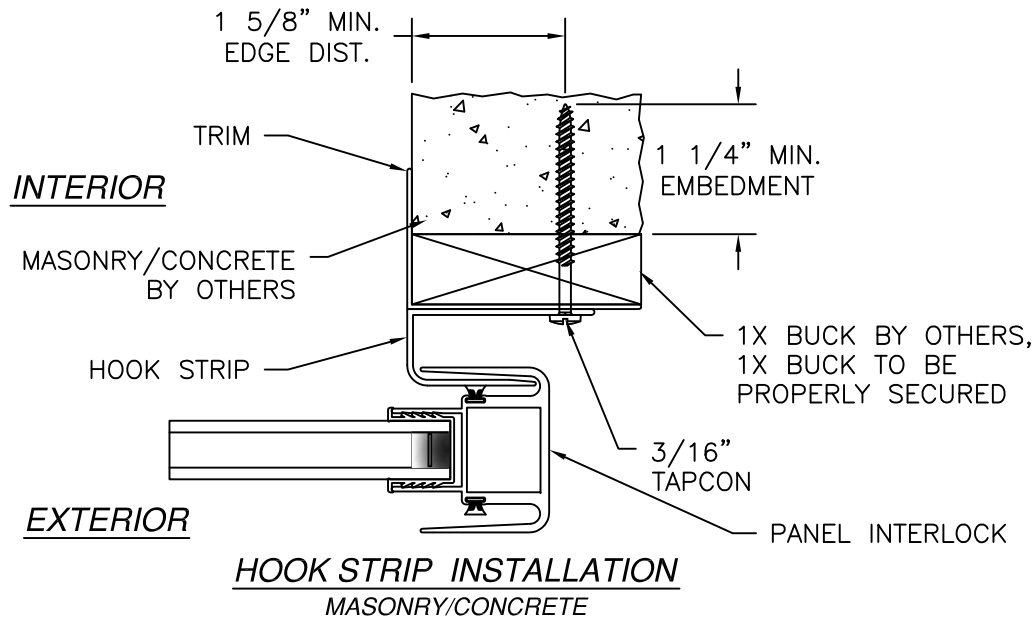
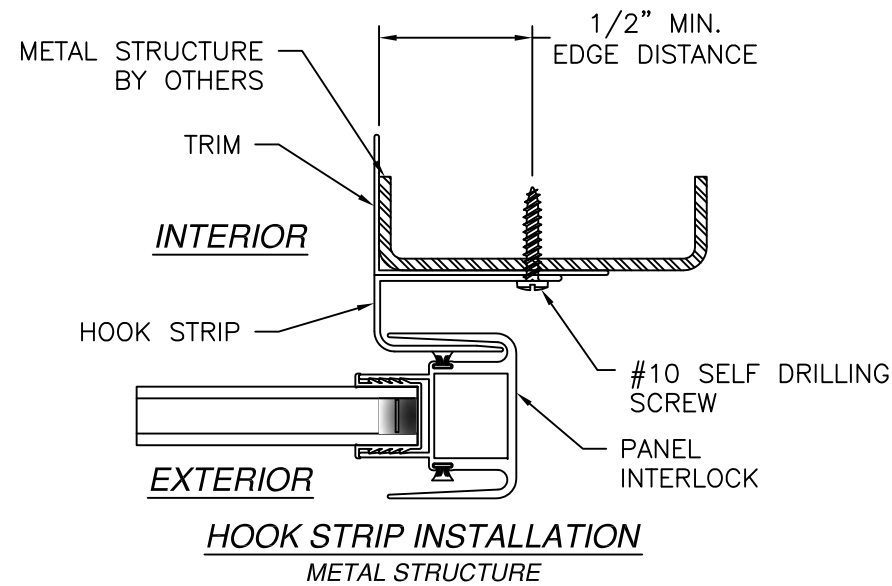
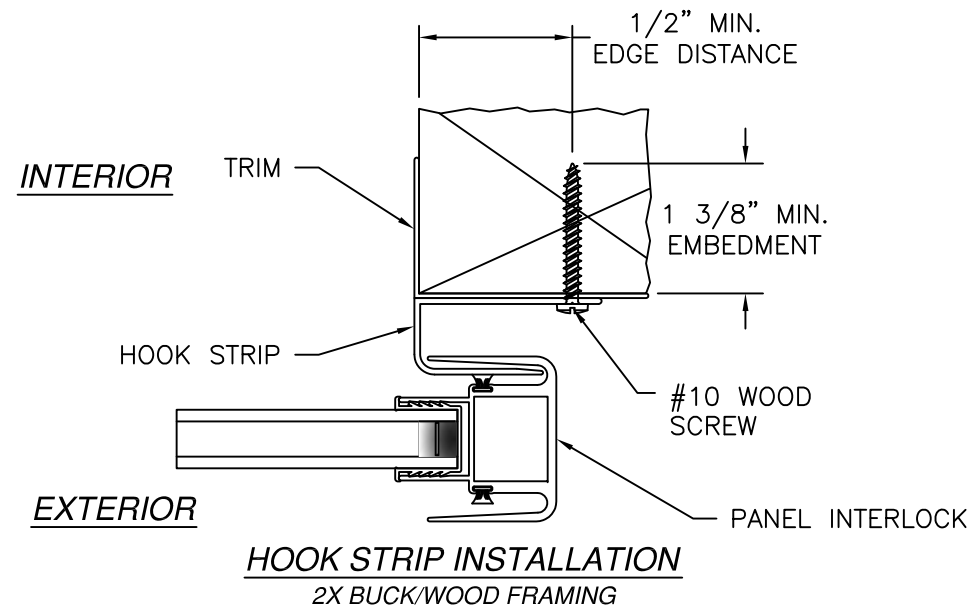
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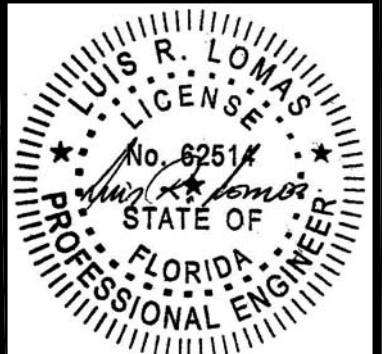


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