

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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.
4. 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.
5. 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.
6. 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.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. 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”.
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: ALUMINUM 6063–T5.
12. UNITS MUST BE GLAZED PER ASTM E1300–04/09.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16” ELCO ULTRACON TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. FOR ANCHORING THROUGH FRAME 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.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER’S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:

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

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MI WINDOWS AND DOORS, LLC

650 W. MARKET ST
GRATZ, PA 17030

185 TRIPLE PICTURE WINDOW
159” X 54” – NON IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08–02949

REV
–

SCALE NTS

DATE 09/08/16

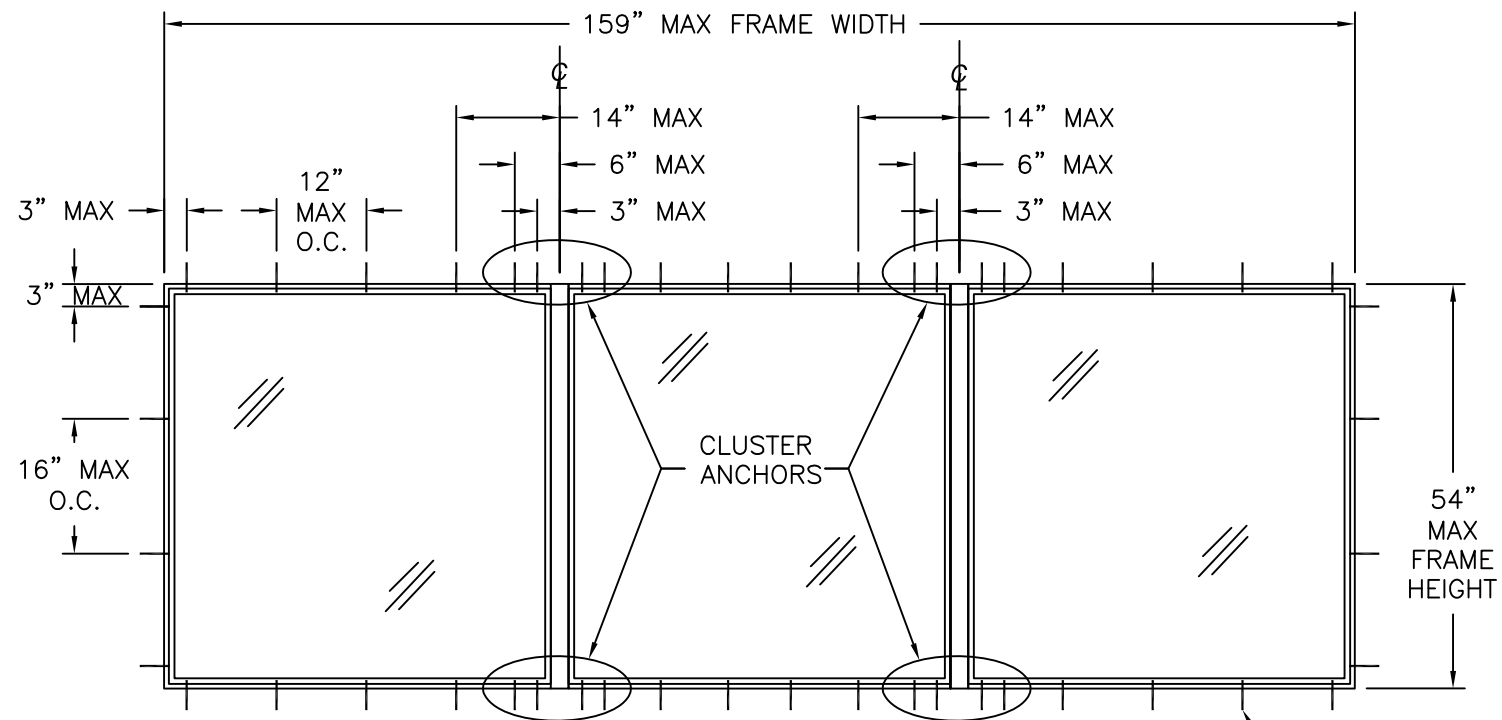
SHEET 1 OF 12

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434-688-0609 rllomas@lrlomaspe.com

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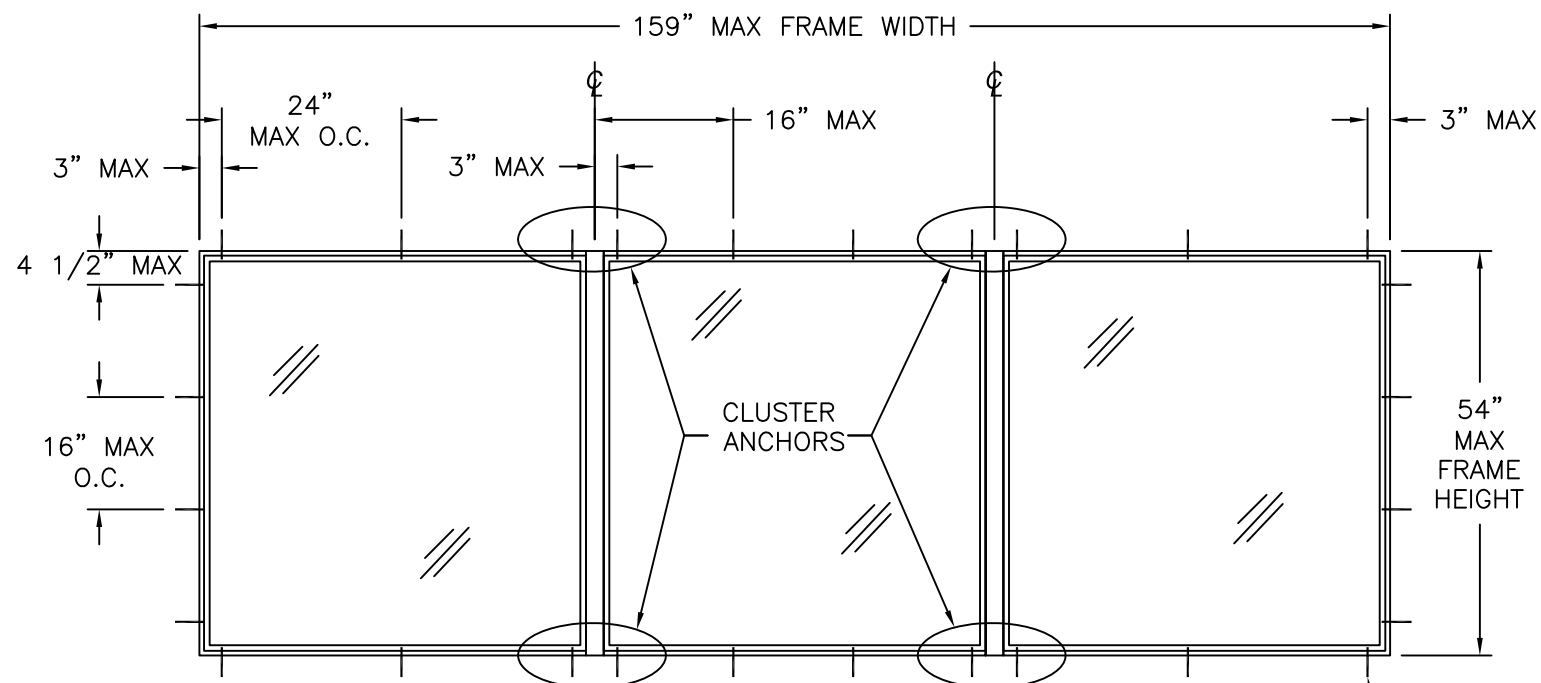
Luis R. Lomas P.E.
FL No.: 62514



185 CHS TRIPLE FIXED WINDOW FLANGE & FINLESS FRAME

EXTERIOR VIEW
WITHOUT FILLERS

SEE CHART #1
FOR NUMBER OF
ANCHORS REQUIRED



185 CHS TRIPLE FIXED WINDOW FLANGE & FINLESS FRAME

EXTERIOR VIEW
WITH RIGID FILLERS

SEE CHART #2
FOR NUMBER OF
ANCHORS REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	NONE

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NOTES:
1. MAXIMUM D.L.O.: 49 1/2" X 51 1/4"

Chart # 1
Number of anchor locations required units installed without fillers

Frame Height (in)	Frame width (in)																	
	72.00			90.00			108.00			126.00			144.00			159.00		
	H&S	Jamb	Cluster	H&S	Jamb	Cluster	H&S	Jamb	Cluster	H&S	Jamb	Cluster	H&S	Jamb	Cluster	H&S	Jamb	Cluster
24.00	1	1	2	2	1	2	2	1	2	2	1	2	3	1	2	3	1	2
30.00	1	3	2	2	3	2	2	3	2	3	3	2	3	3	2	3	3	2
36.00	1	3	2	2	3	2	2	3	2	3	3	2	3	3	2	4	3	2
42.00	1	3	2	2	3	4	2	3	4	3	3	4	3	3	4	4	3	4
48.00	1	4	4	2	4	4	2	4	4	3	4	4	3	4	4	4	4	4
54.00	1	4	4	2	4	4	2	4	4	3	4	4	3	4	4	4	4	4

Chart # 2
Number of anchor locations required units installed with rigid fillers

Frame Height (in)	Frame width (in)																	
	72.00			90.00			108.00			126.00			144.00			159.00		
	H&S	Jamb	Cluster	H&S	Jamb	Cluster	H&S	Jamb	Cluster	H&S	Jamb	Cluster	H&S	Jamb	Cluster	H&S	Jamb	Cluster
24.00	1	1	2	1	1	2	1	1	2	1	1	2	2	1	2	2	1	2
30.00	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2
36.00	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2
42.00	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2
48.00	1	4	2	1	4	2	1	4	2	2	4	2	2	4	2	2	4	2
54.00	1	4	2	1	4	2	1	4	2	2	4	2	2	4	2	2	4	2

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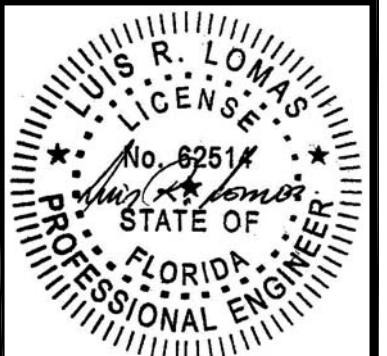
MI WINDOWS AND DOORS, LLC

650 W. MARKET ST
GRATZ, PA 17030

185 TRIPLE PICTURE WINDOW
159" X 54" – NON IMPACT
FLANGE & FINLESS ELEVATIONS

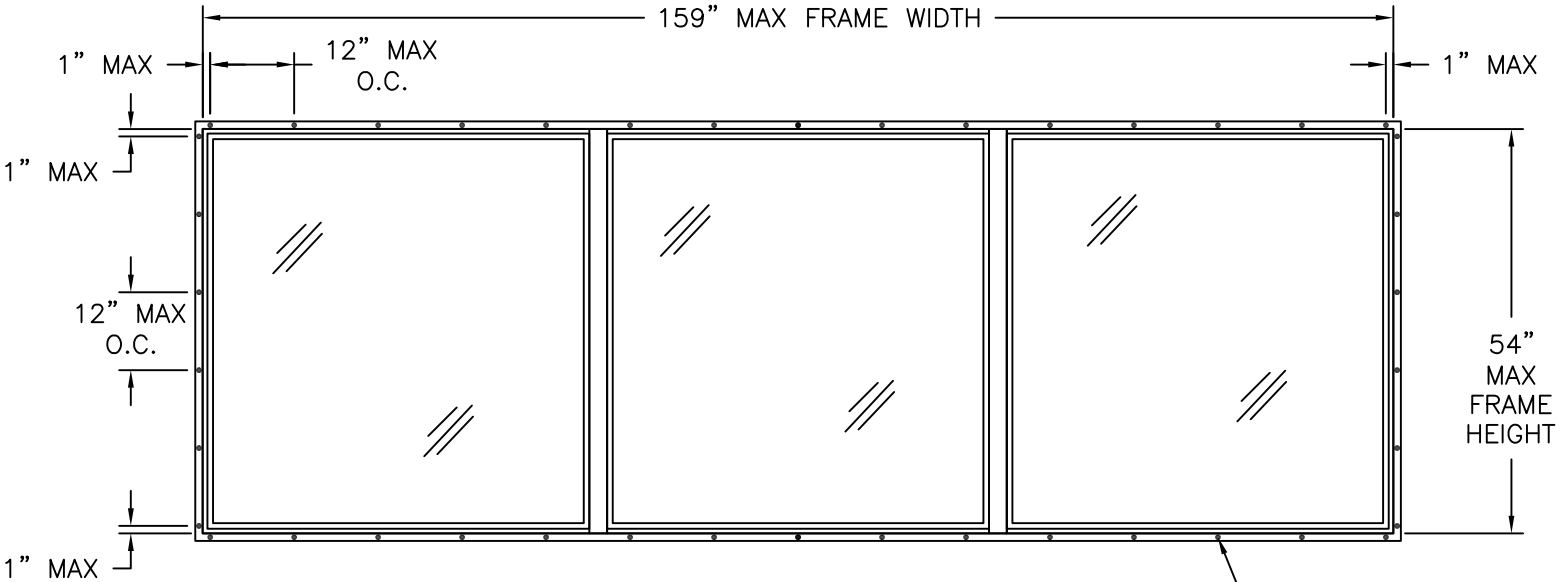
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SCALE NTS	DATE 09/08/16	SHEET 2 OF 12

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185 CHS TRIPLE FIXED WINDOW FIN FRAME
EXTERIOR VIEW
FIN INSTALLATION

SEE CHART #3
FOR NUMBER OF
ANCHORS REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	NONE

Chart # 3
Number of anchor locations required for fin installation

Frame Height (in)	Frame Width (in)											
	72.00		90.00		108.00		126.00		144.00		159.00	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
24.00	7	3	9	3	10	3	12	3	13	3	15	3
30.00	7	4	9	4	10	4	12	4	13	4	15	4
36.00	7	4	9	4	10	4	12	4	13	4	15	4
42.00	7	5	9	5	10	5	12	5	13	5	15	5
48.00	7	5	9	5	10	5	12	5	13	5	15	5
54.00	7	6	9	6	10	6	12	6	13	6	15	6

NOTES:
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GRATZ, PA 17030

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159" X 54" – NON IMPACT
FIN ELEVATION

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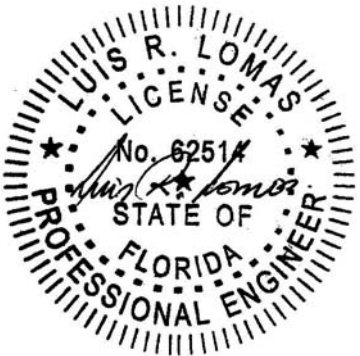
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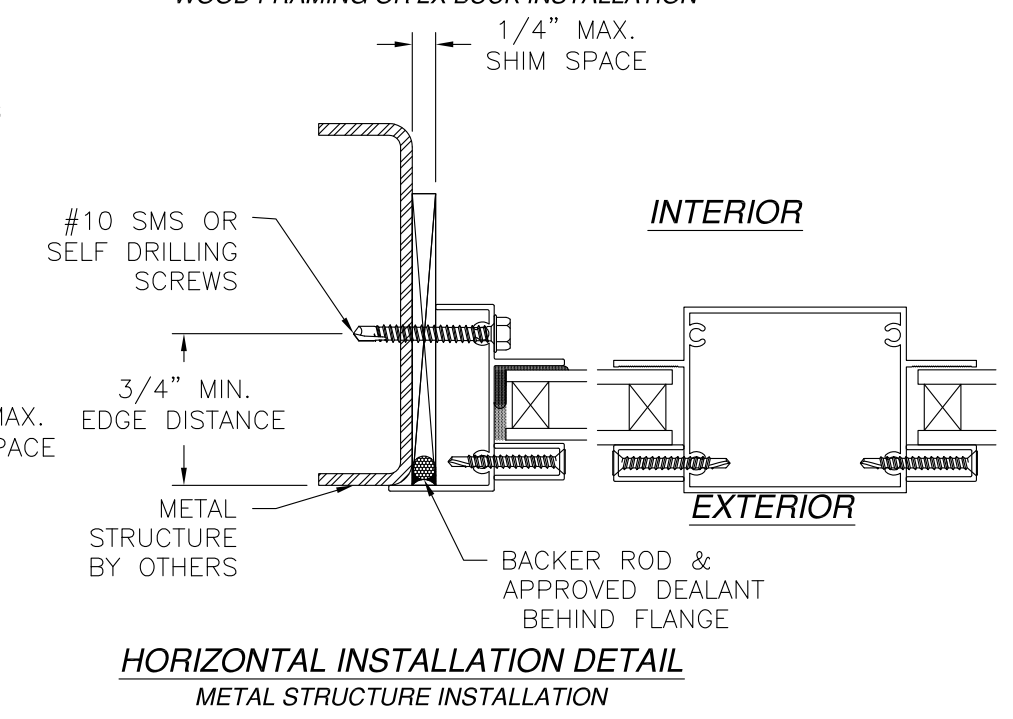
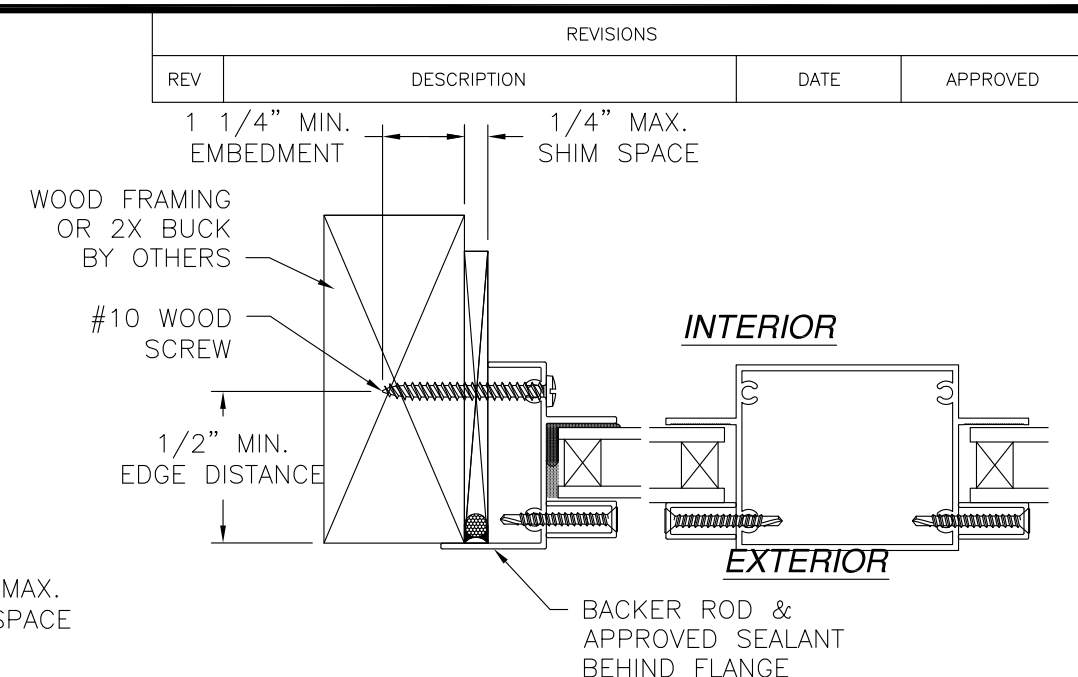
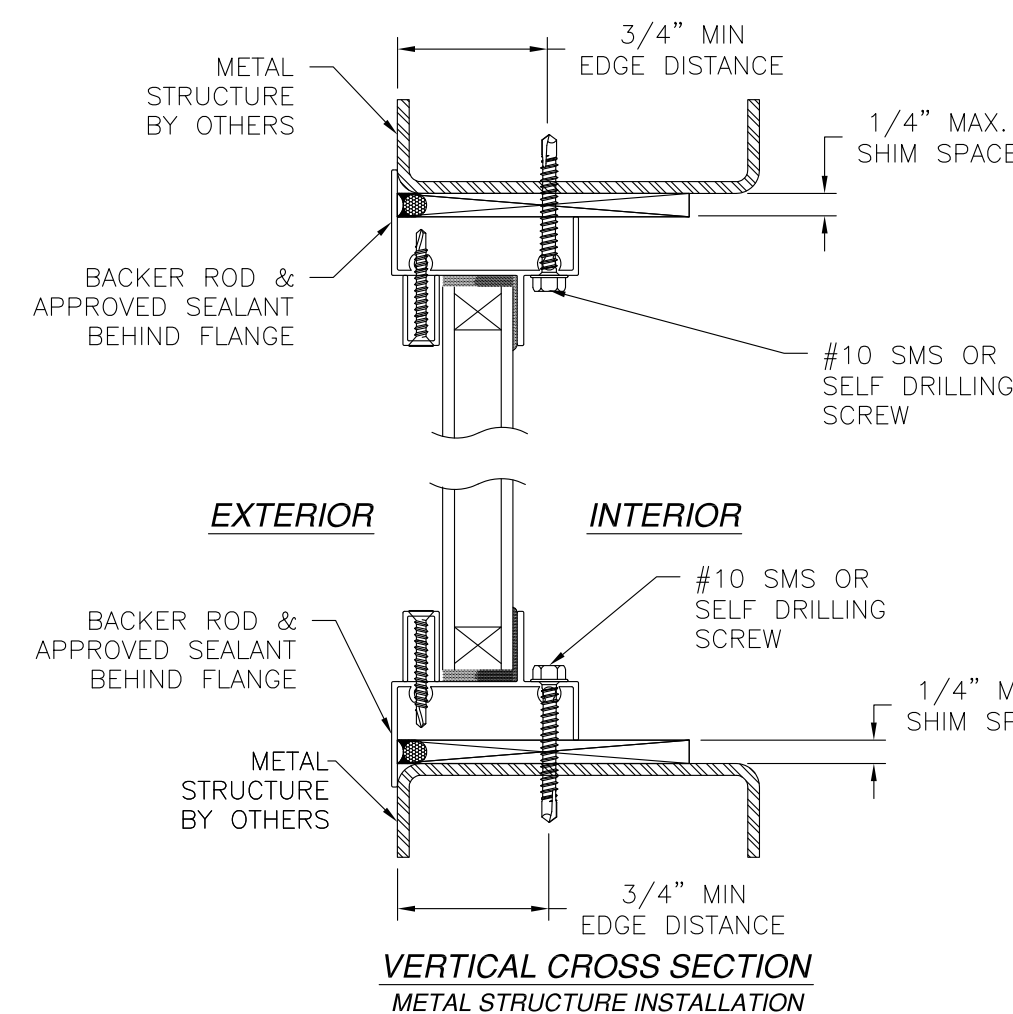
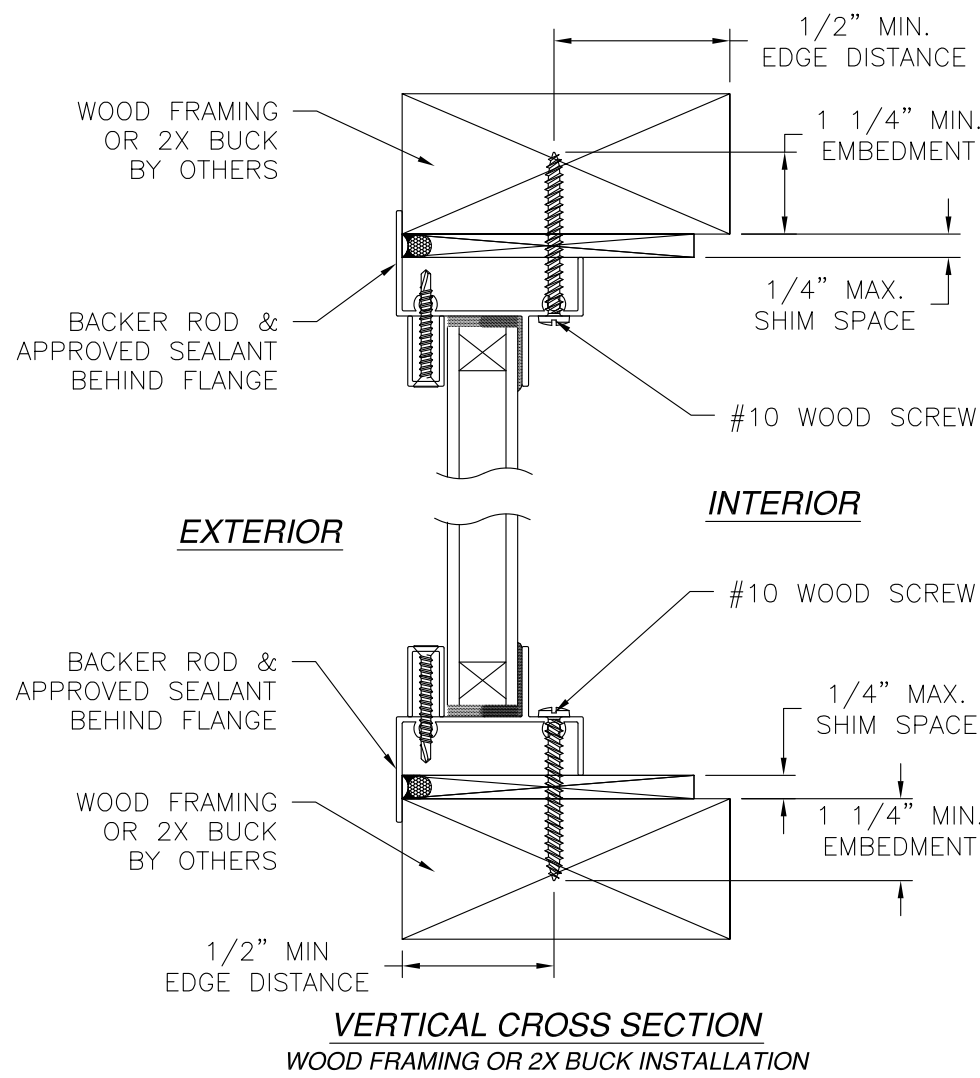
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SHEET 3 OF 12

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NOTES:

1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.

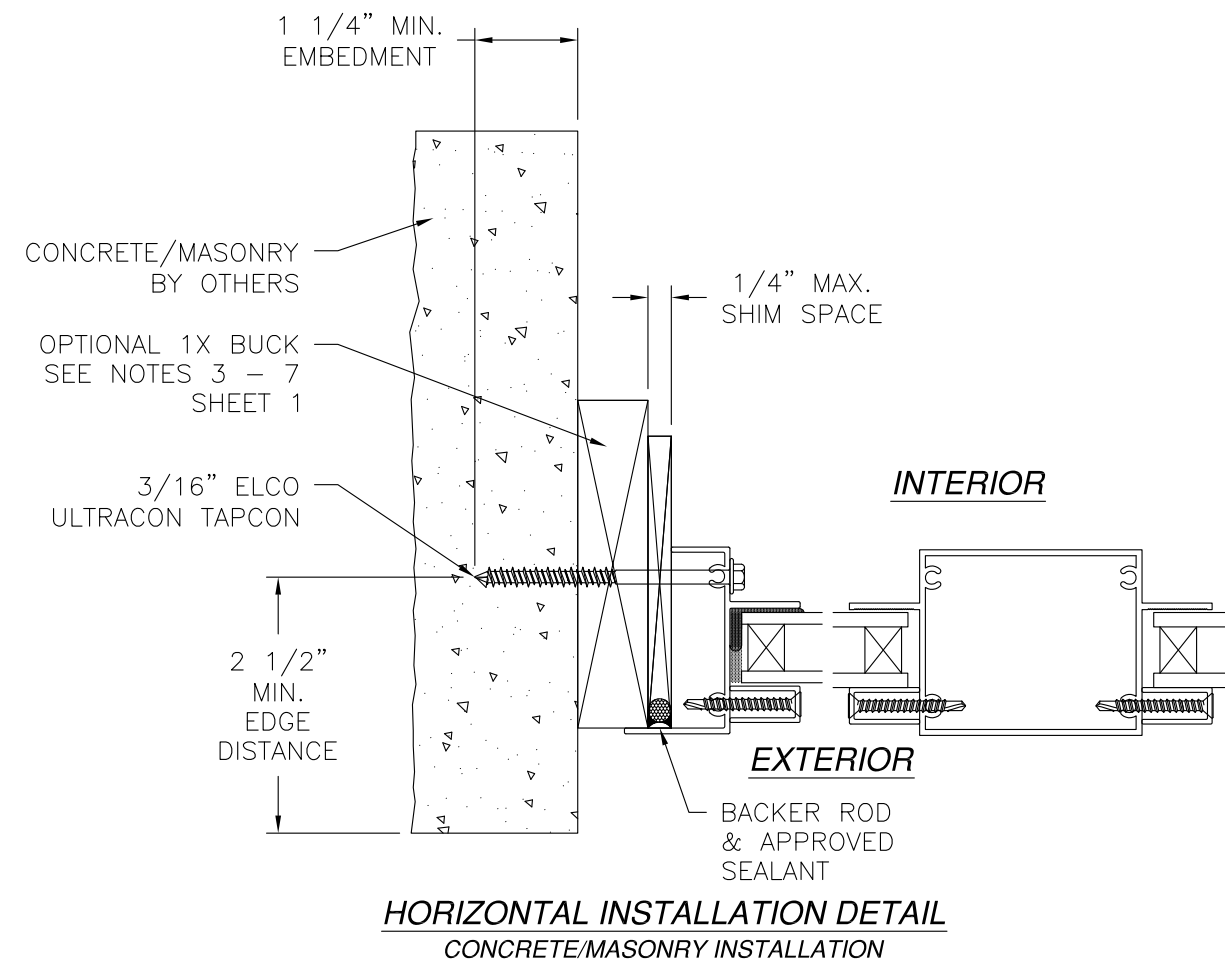
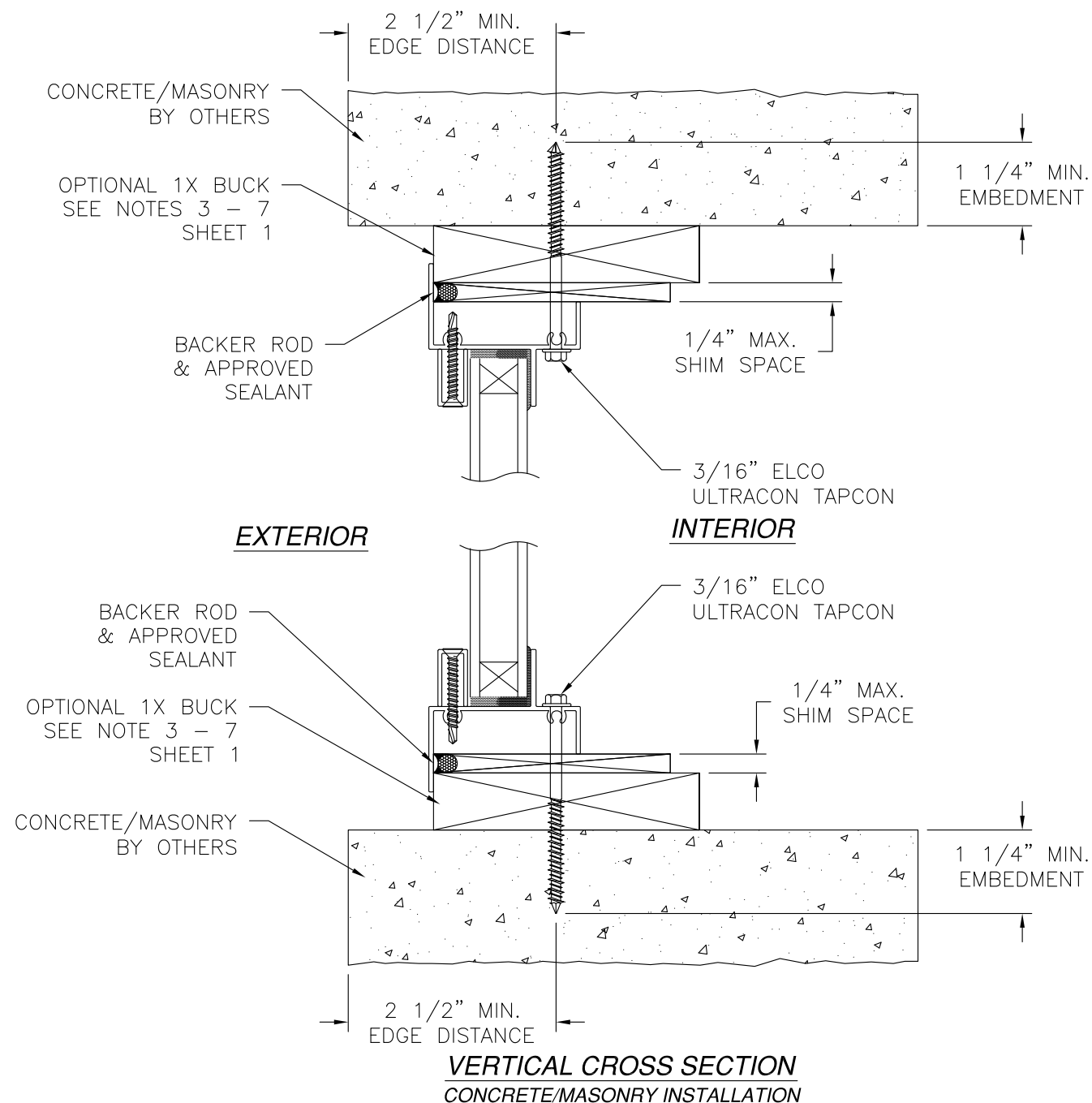
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

MI WINDOWS AND DOORS, LLC		
650 W. MARKET ST GRATZ, PA 17030		
185 TRIPLE PICTURE WINDOW 159" X 54" - NON IMPACT FLANGE INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02949	REV -
SCALE NTS	DATE 09/08/16	SHEET 4 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

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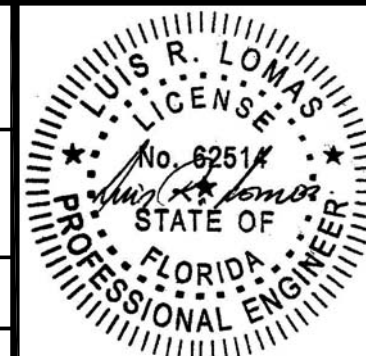
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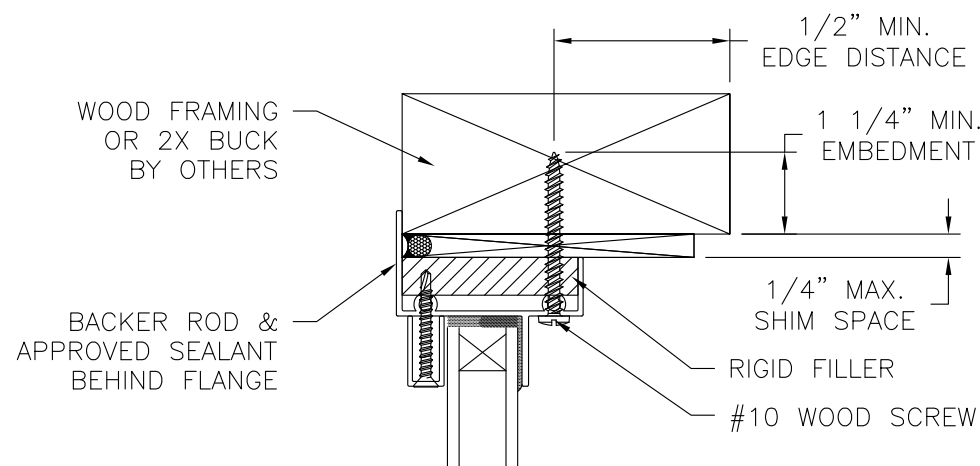
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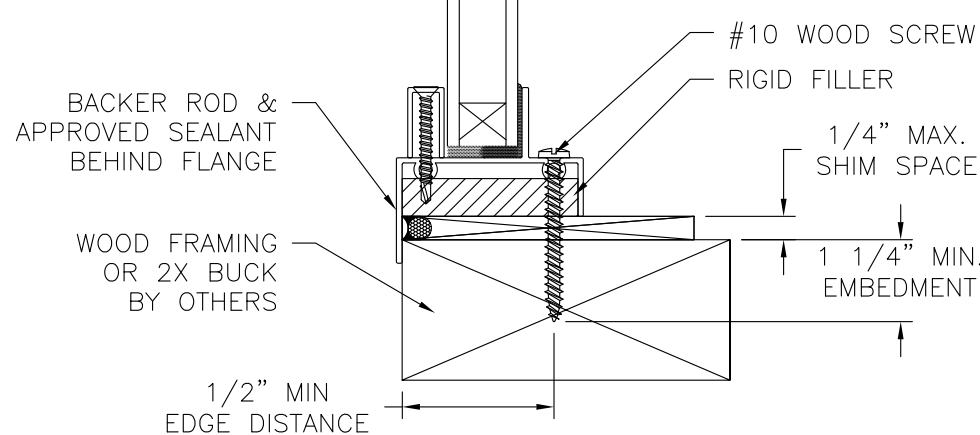


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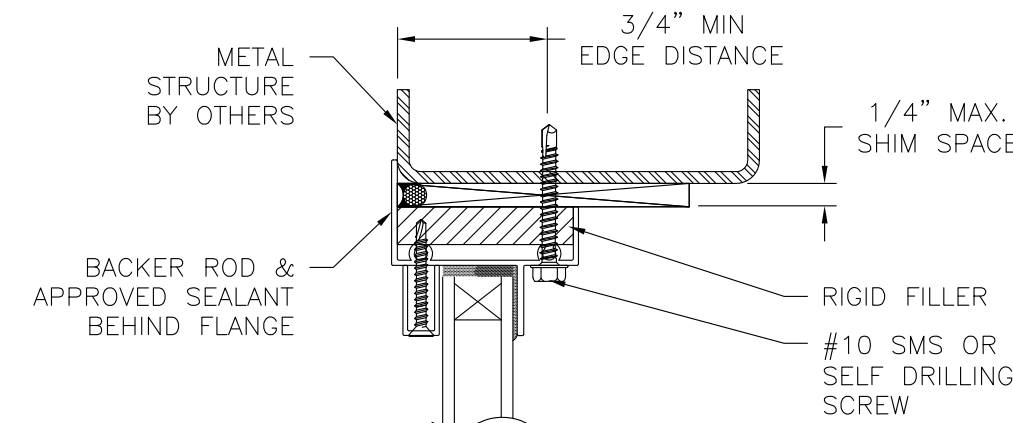


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INTERIOR

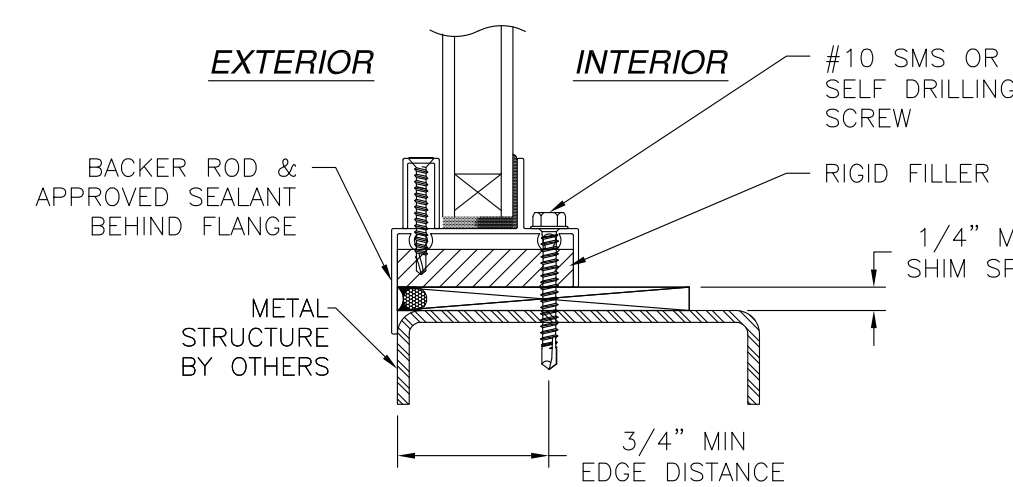


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

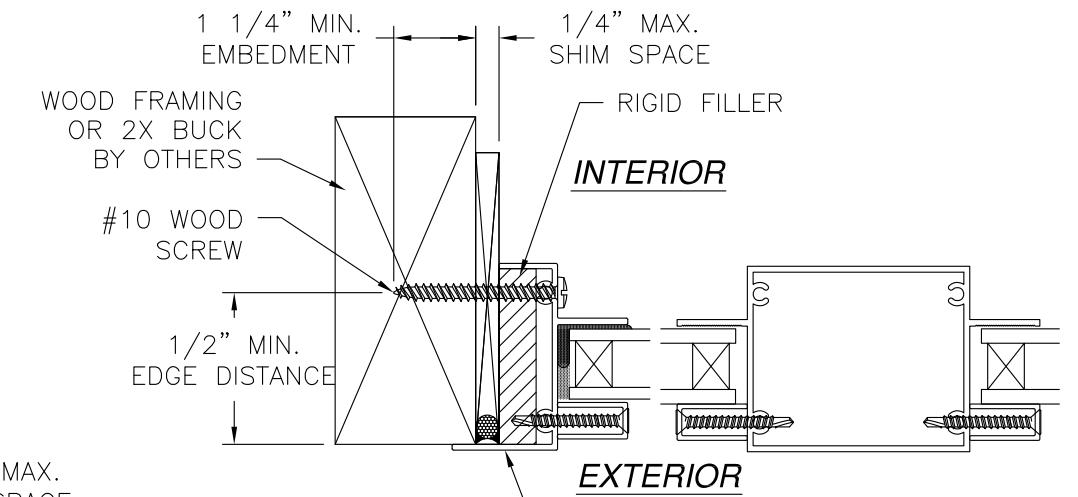


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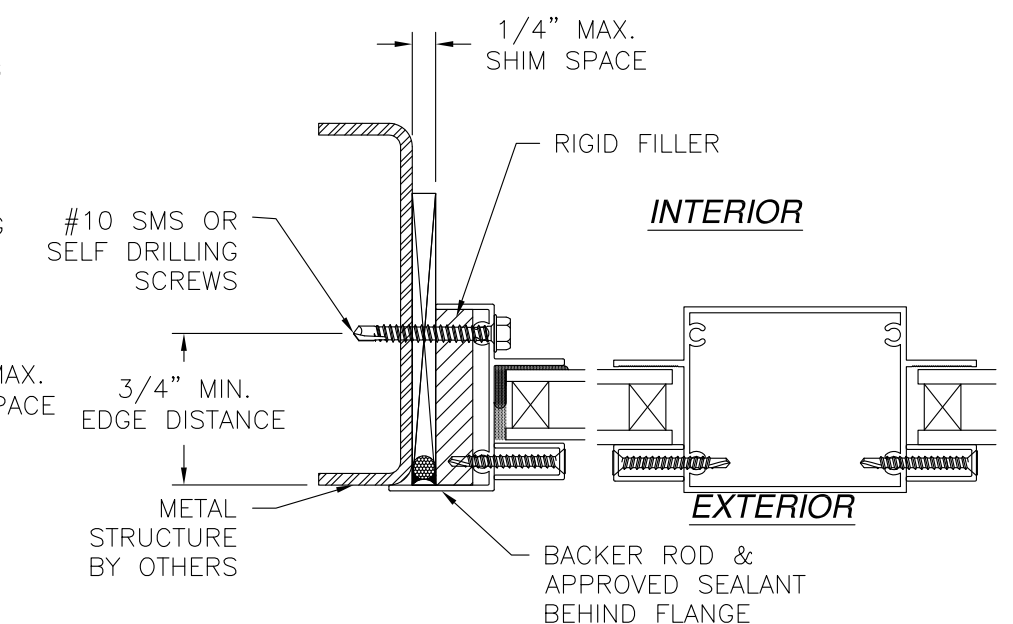
INTERIOR



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



HORIZONTAL INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

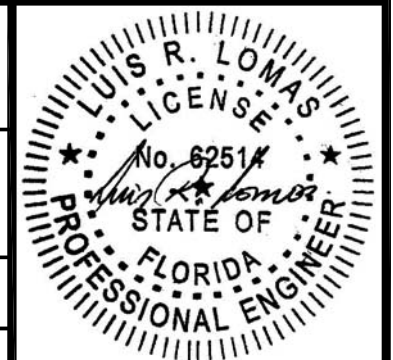


HORIZONTAL INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

SIGNED: 10/31/2016

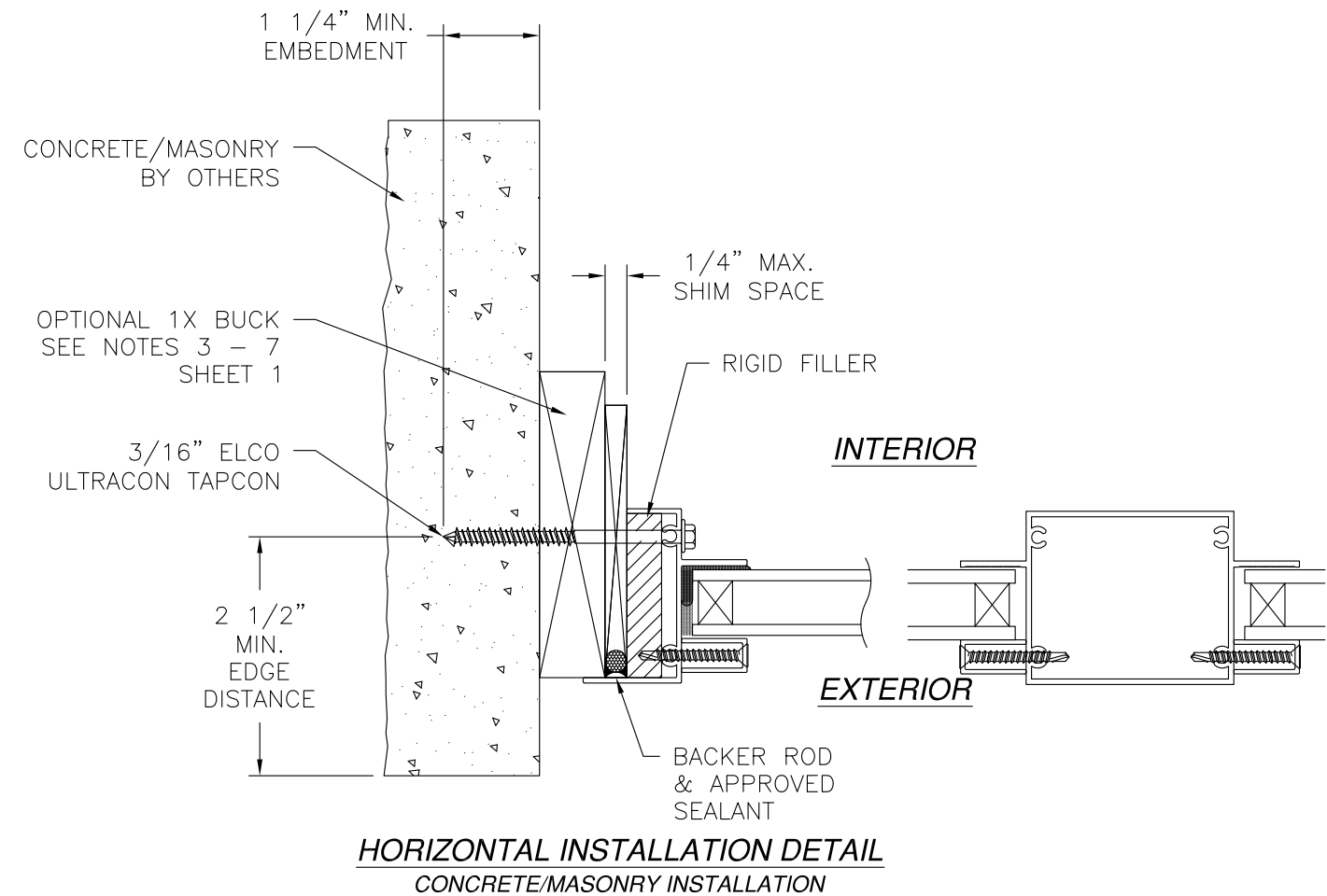
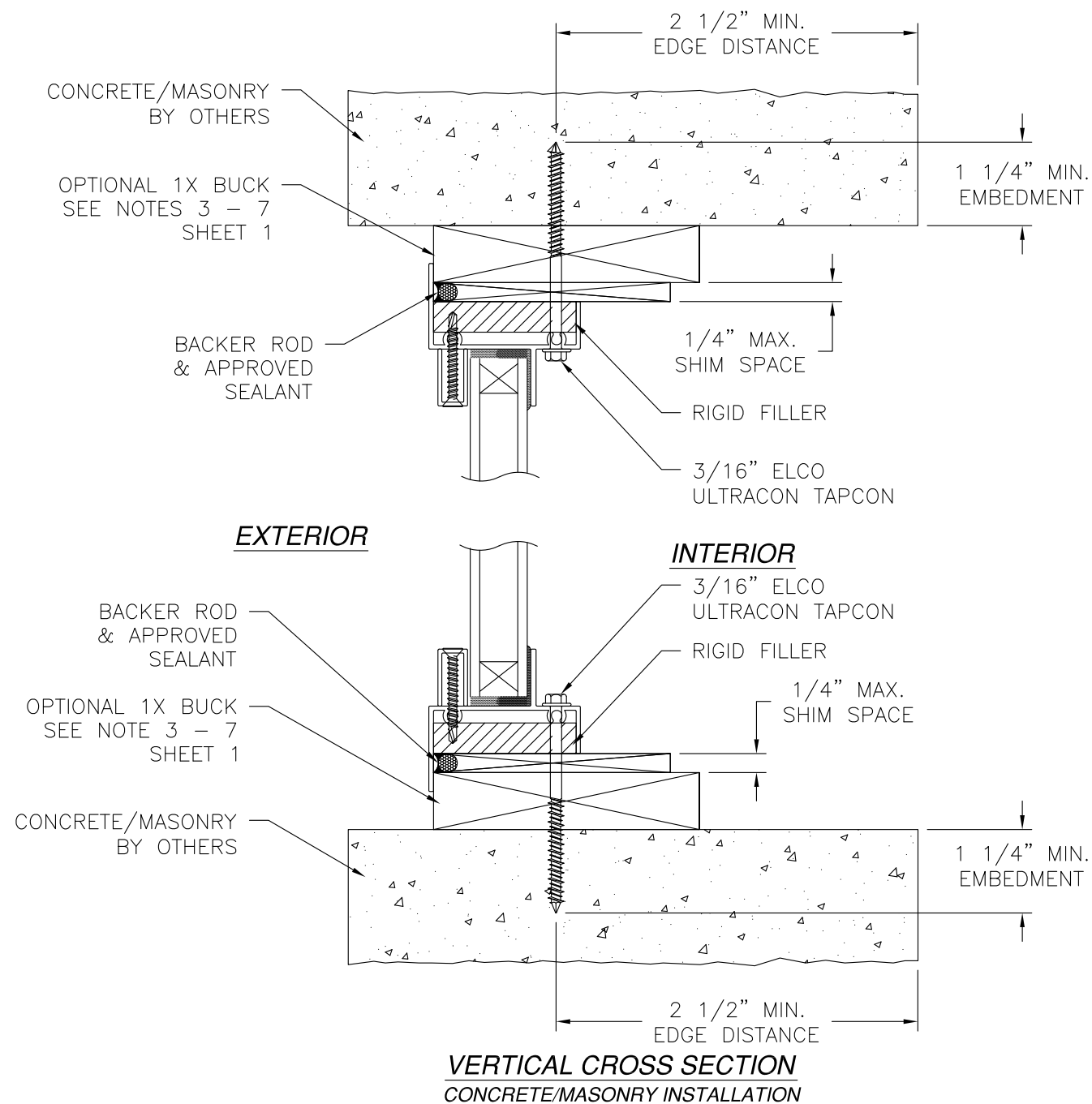
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

MI WINDOWS AND DOORS, LLC		
650 W. MARKET ST GRATZ, PA 17030		
185 TRIPLE PICTURE WINDOW 159" X 54" – NON IMPACT FLANGE INSTALLATION DETAILS WITH RIGID FILLER		
DRAWN: V.L.	DWG NO. 08-02949	REV -
SCALE NTS	DATE 09/08/16	SHEET 6 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



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 GRATZ, PA 17030

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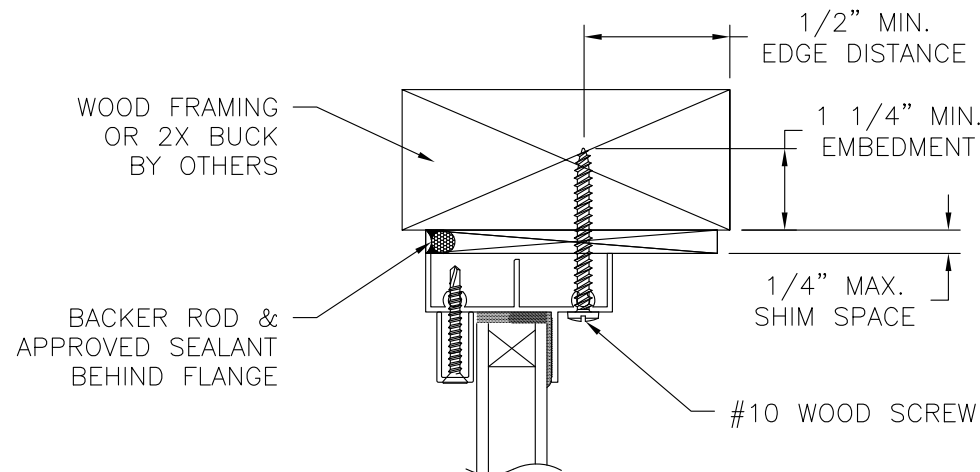
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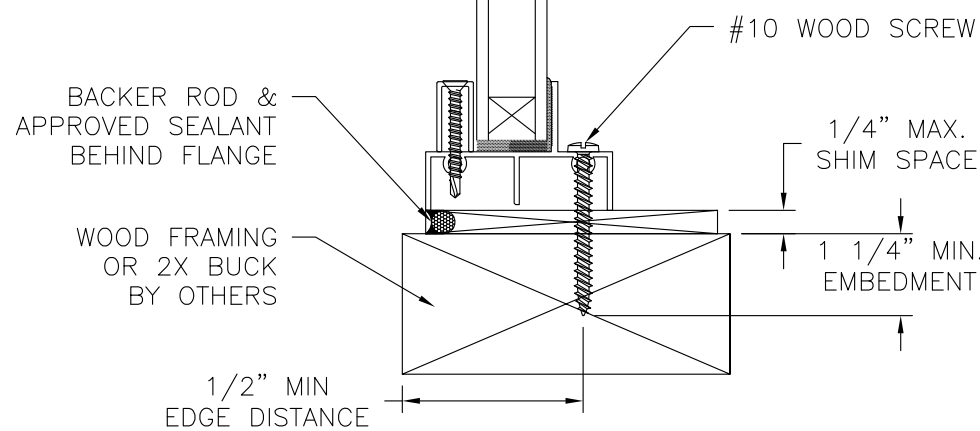
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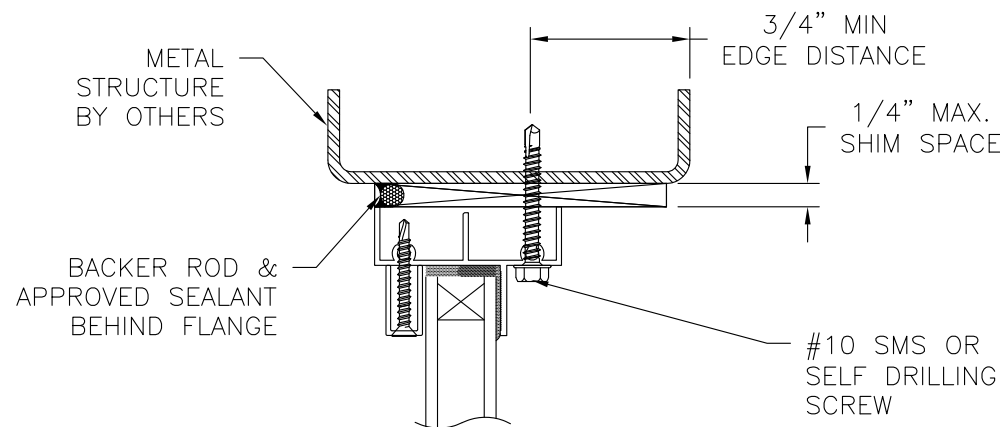


EXTERIOR

INTERIOR

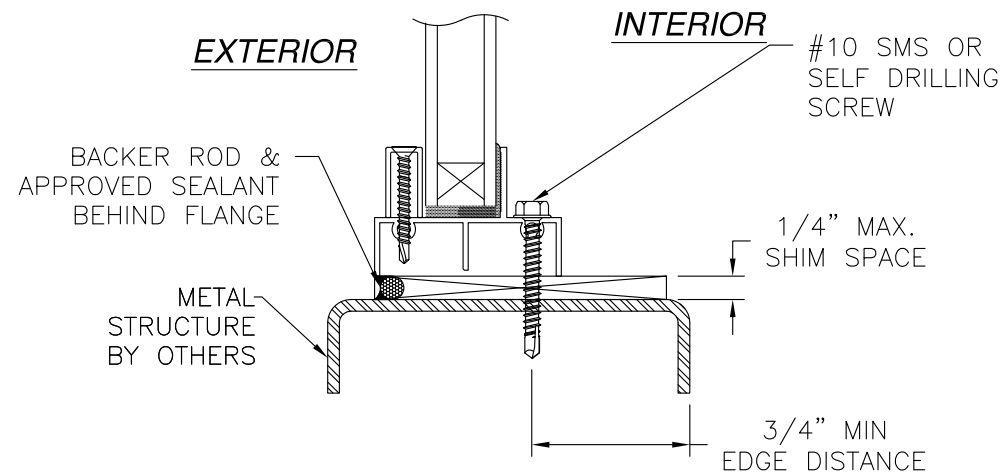


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

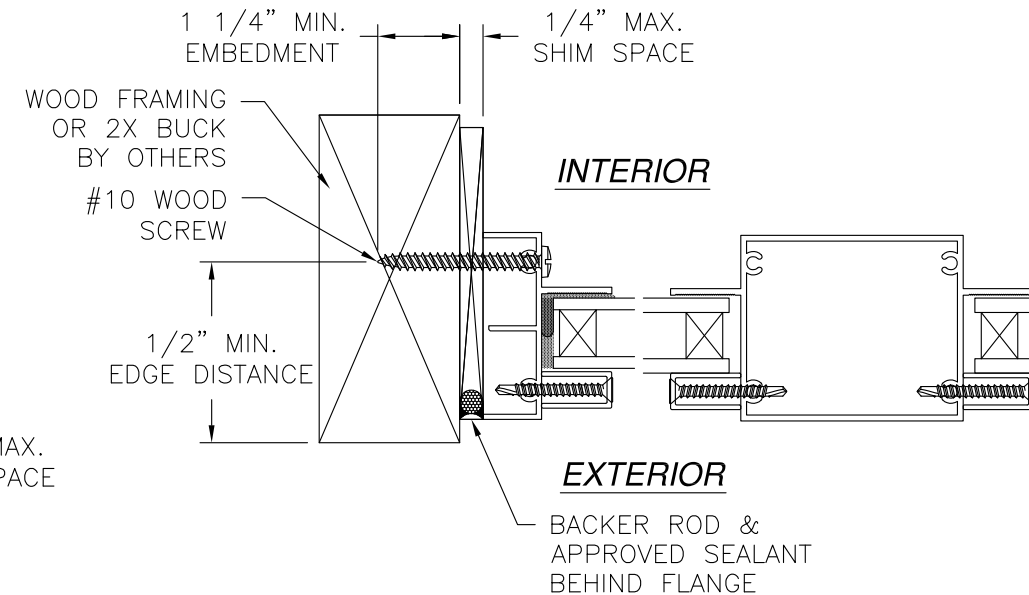


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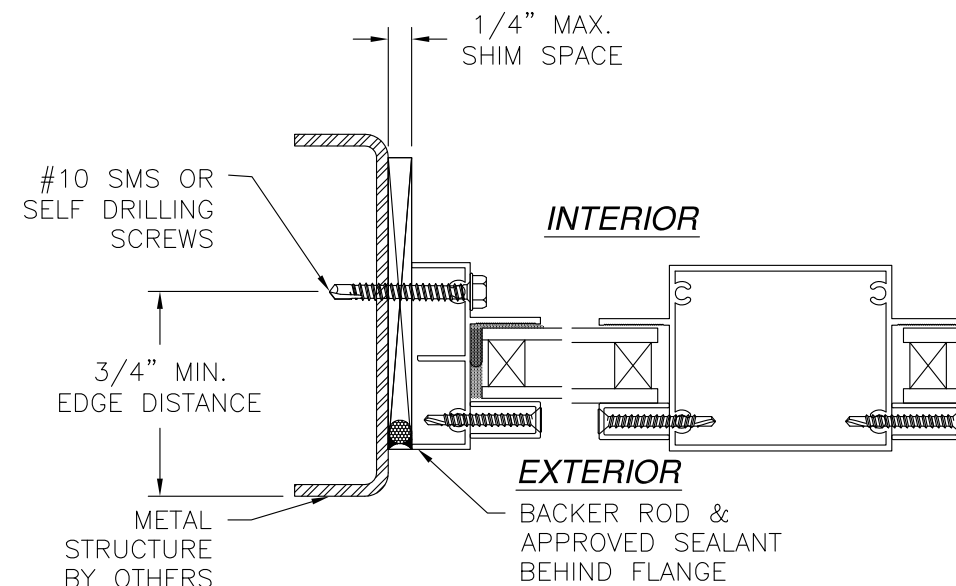
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



INTERIOR

EXTERIOR

HORIZONTAL INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



INTERIOR

EXTERIOR

HORIZONTAL INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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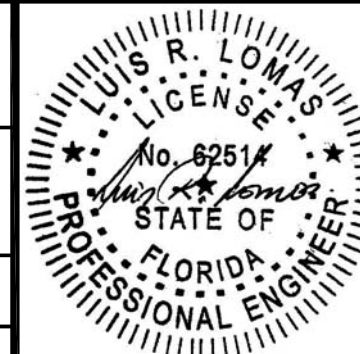
MI WINDOWS AND DOORS, LLC

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GRATZ, PA 17030

185 TRIPLE PICTURE WINDOW
159" X 54" – NON IMPACT
FINLESS INSTALLATION DETAILS

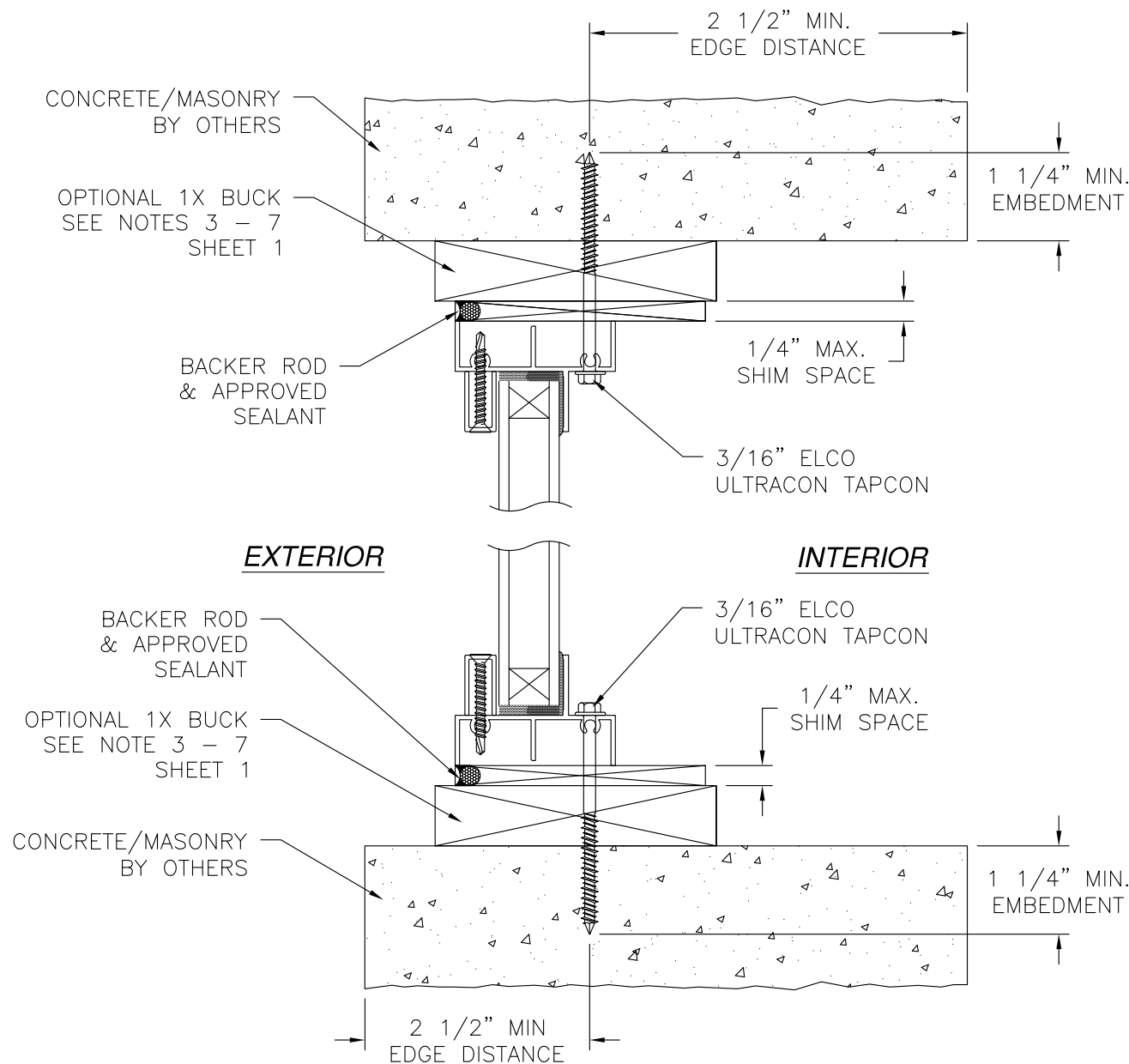
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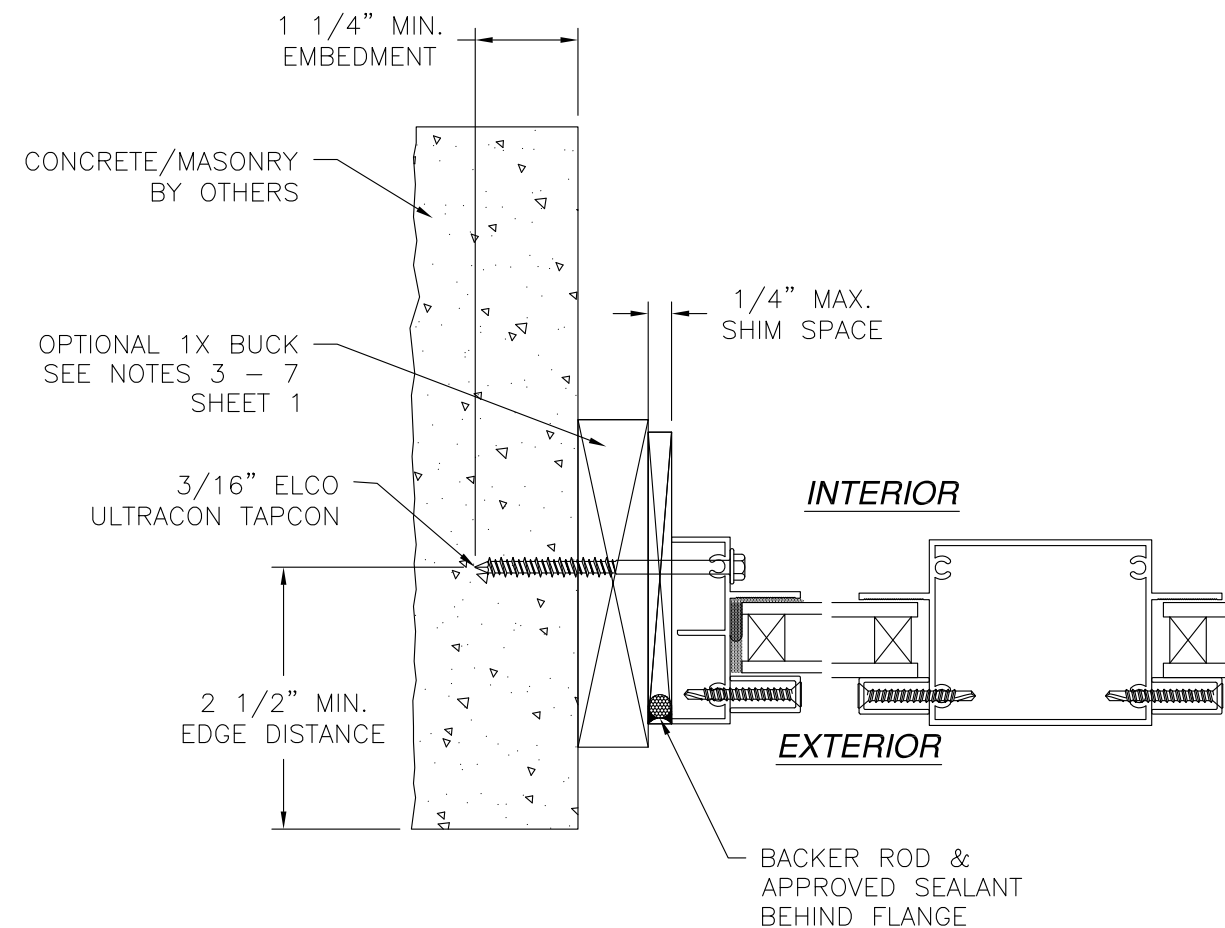
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

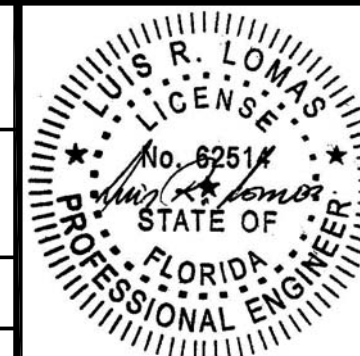
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HORIZONTAL INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

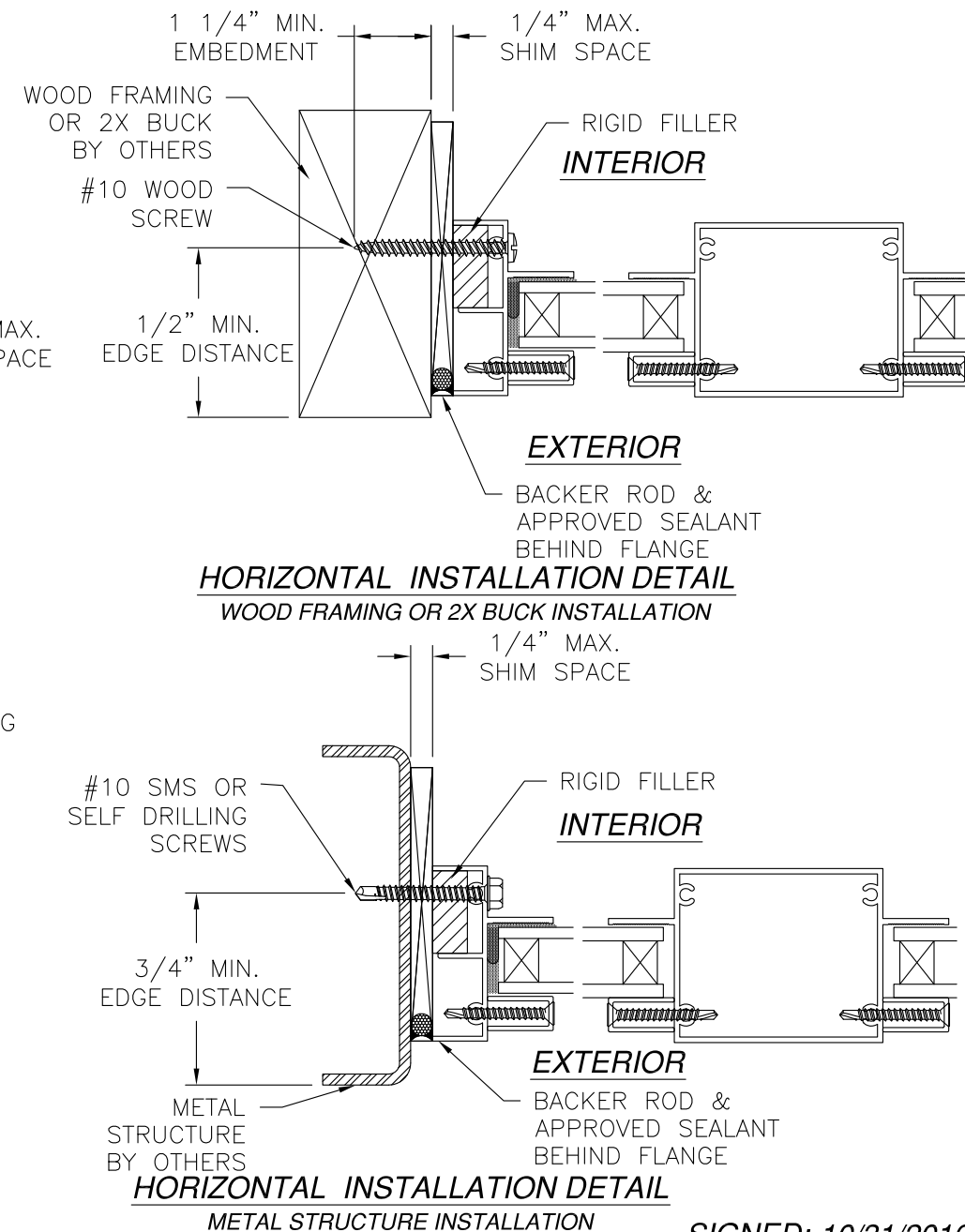
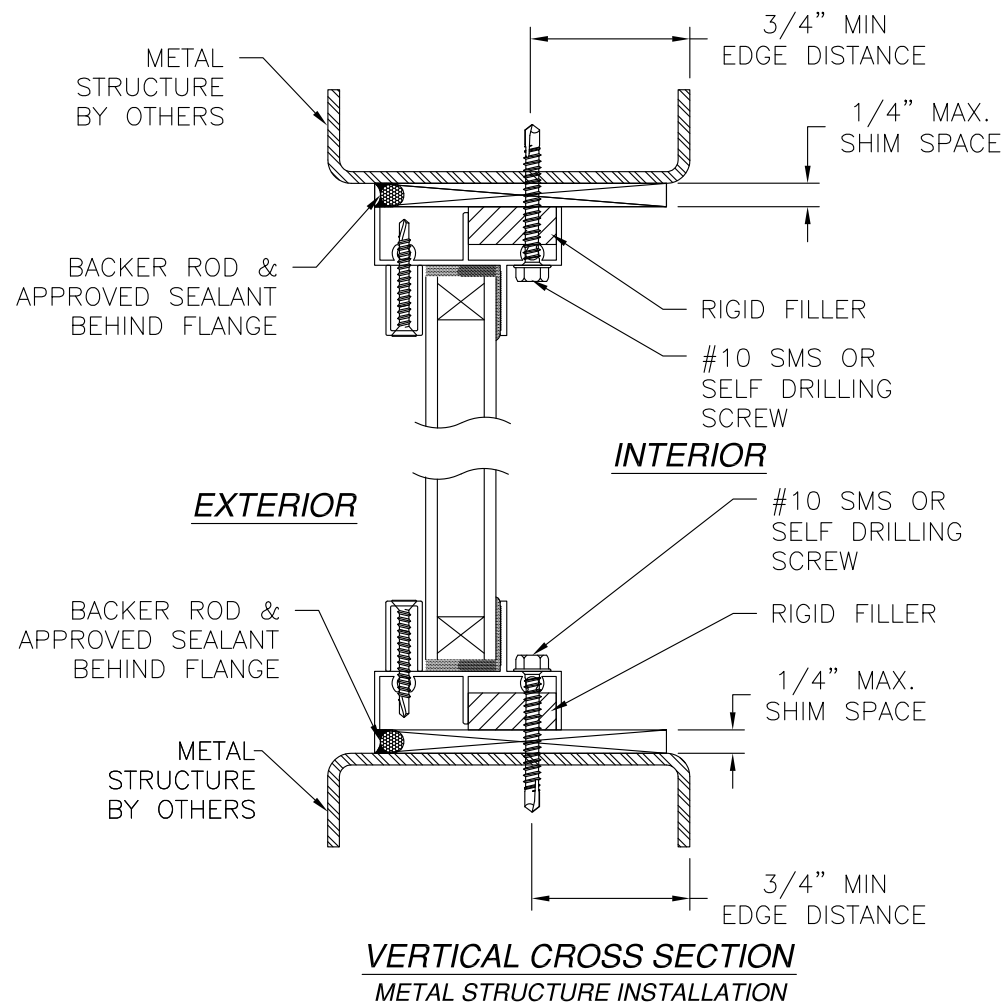
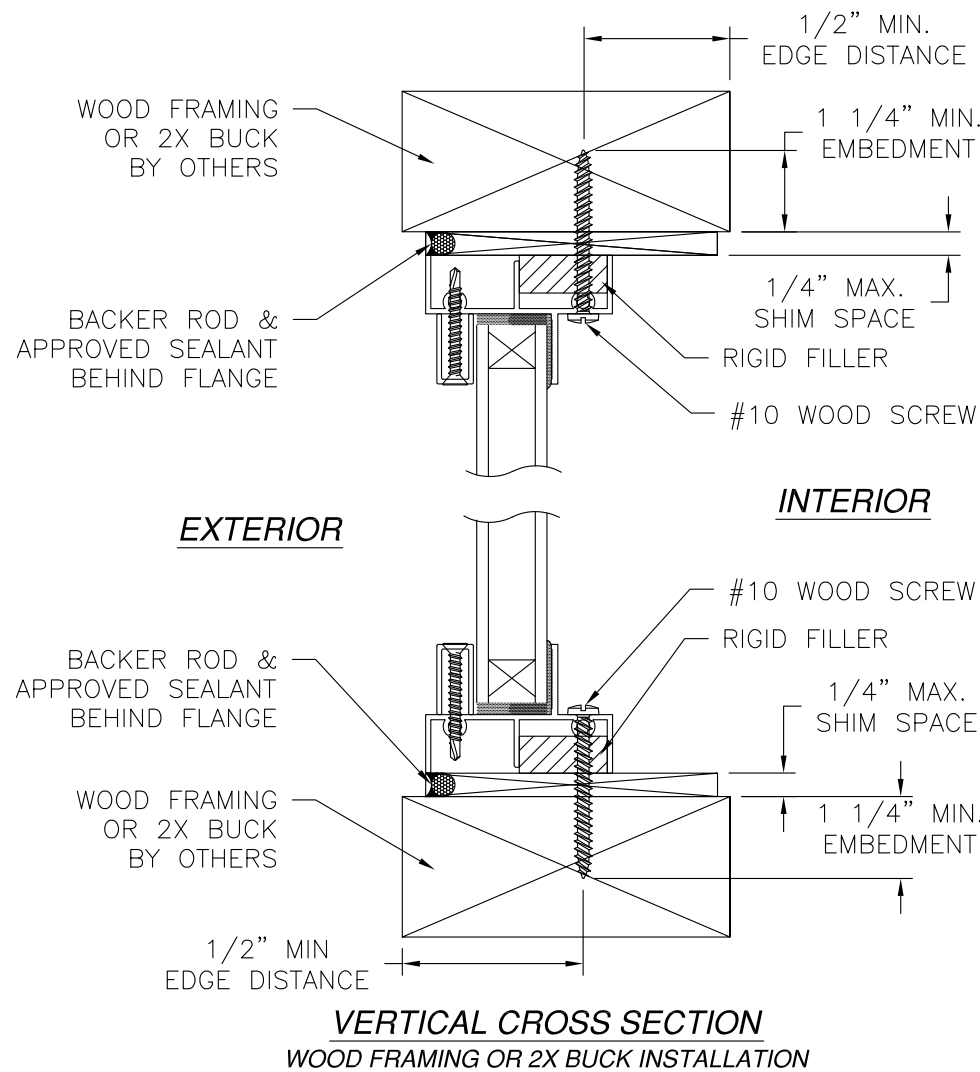
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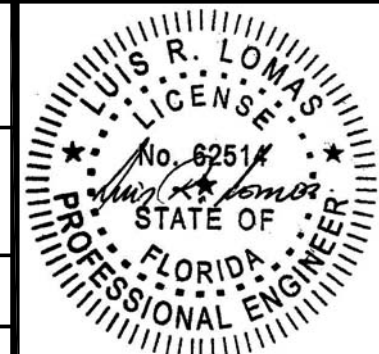
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SCALE NTS	DATE 09/08/16	SHEET 10 OF 12

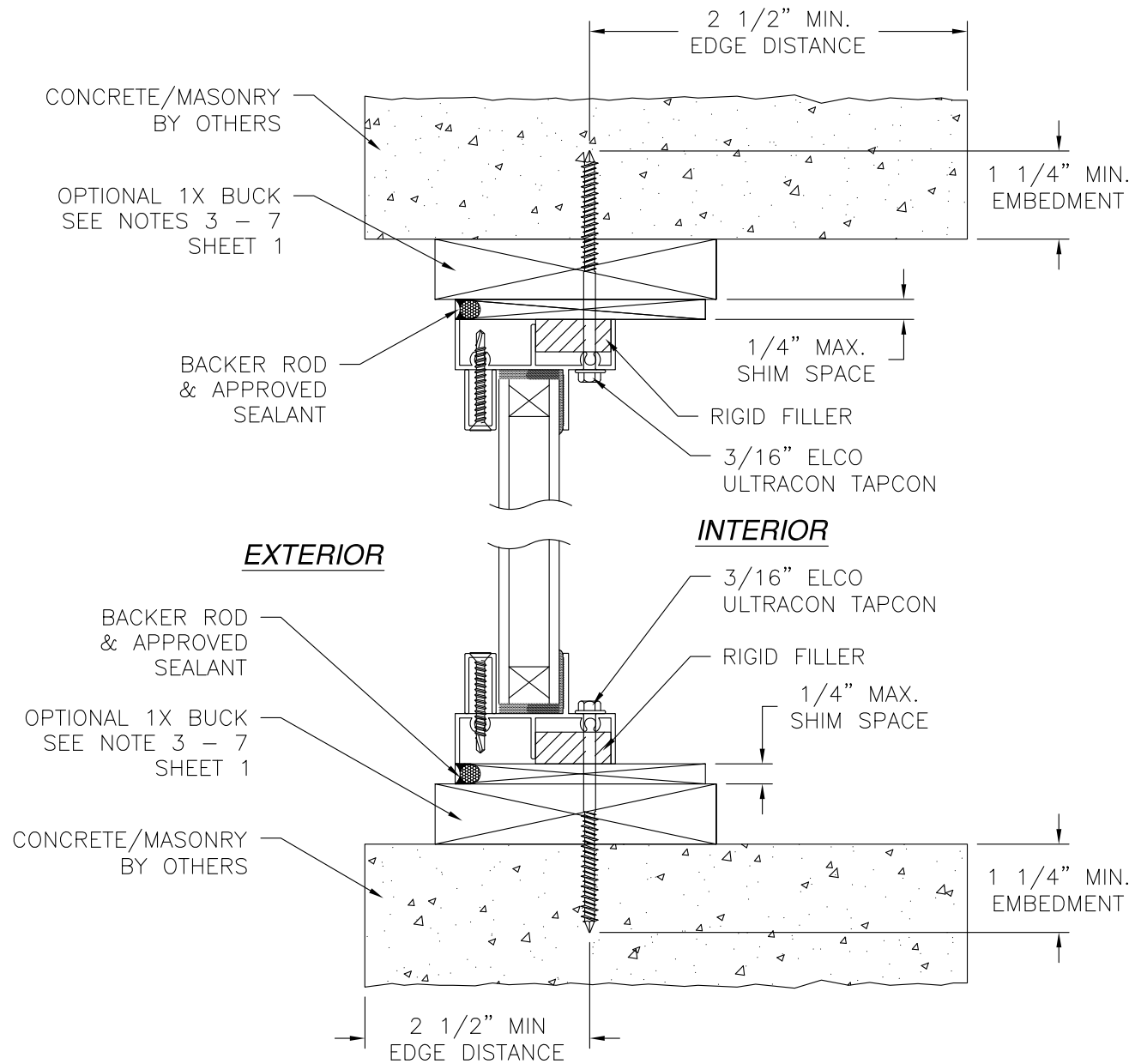
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/31/2016

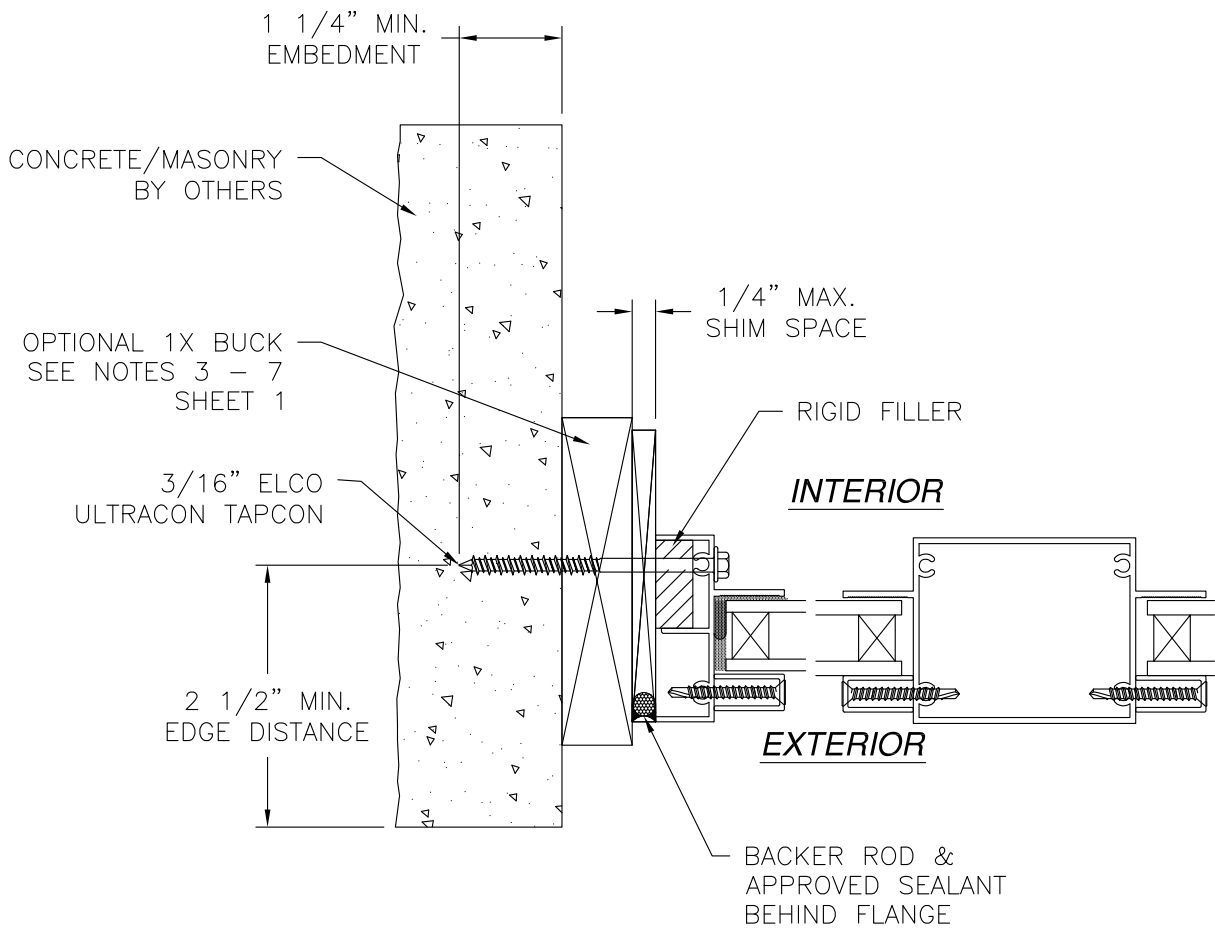


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



HORIZONTAL INSTALLATION DETAIL
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

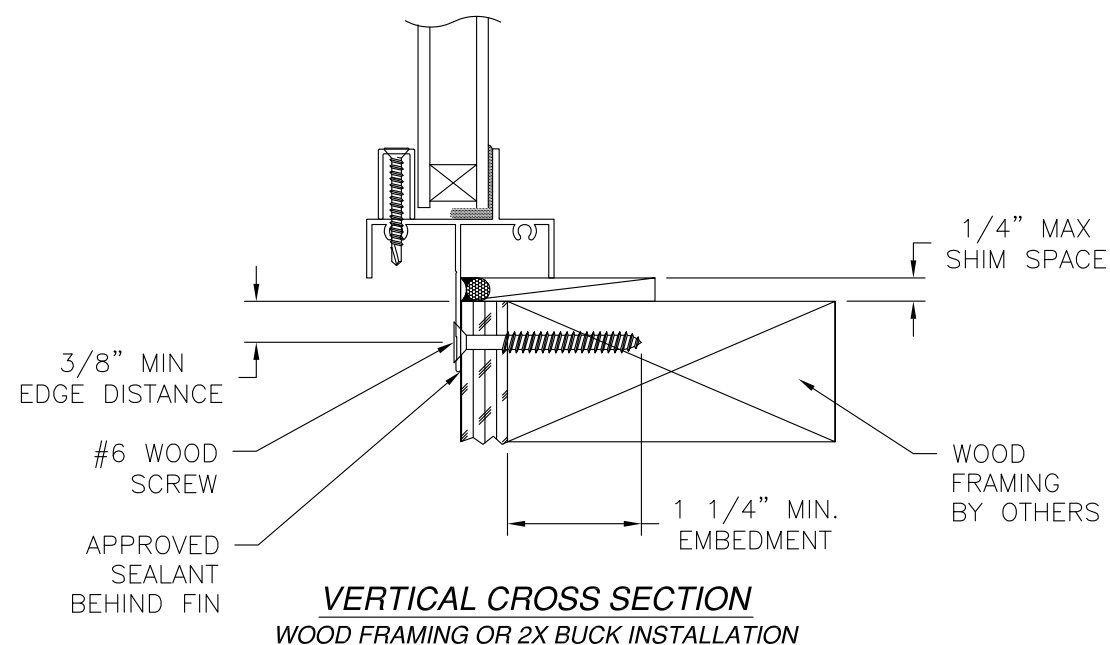
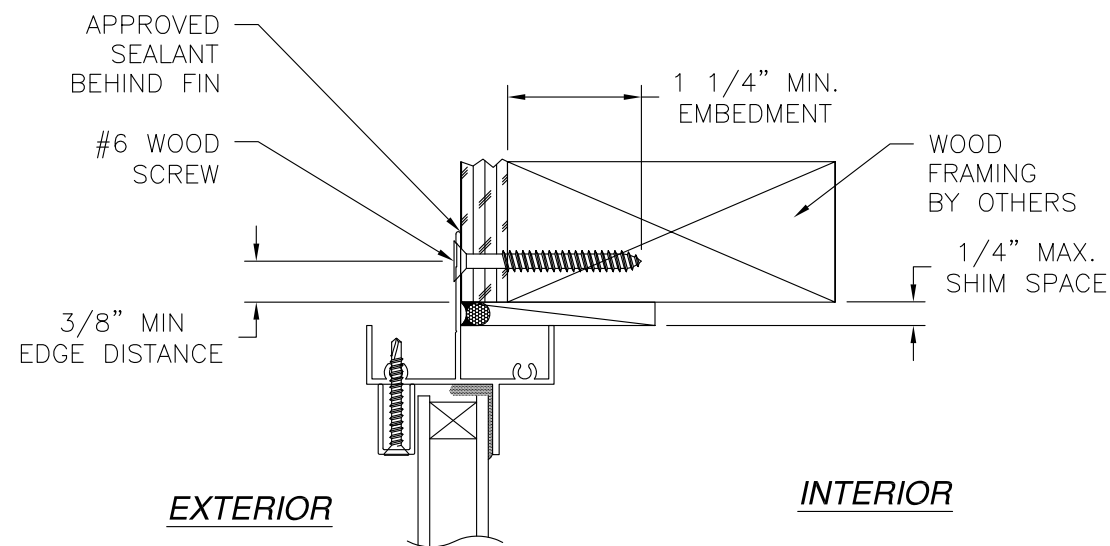
MI WINDOWS AND DOORS, LLC		
650 W. MARKET ST GRATZ, PA 17030		
185 TRIPLE PICTURE WINDOW 159" X 54" - NON IMPACT FINLESS INSTALLATION DETAILS WITH RIGID FILLER		
DRAWN: V.L.	DWG NO. 08-02949	REV -
SCALE NTS	DATE 09/08/16	SHEET 11 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

SIGNED: 10/31/2016



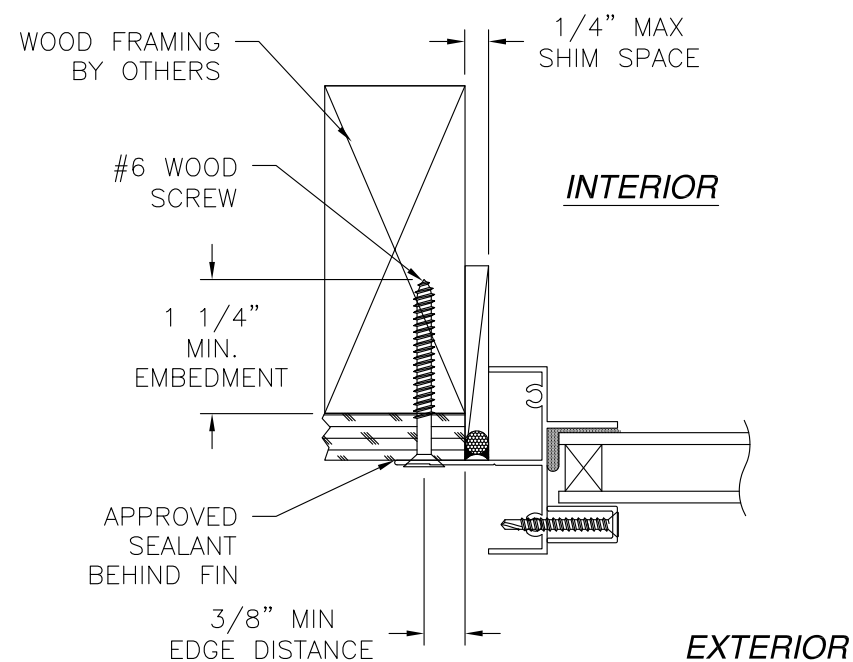
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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



HORIZONTAL INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 10/31/2016

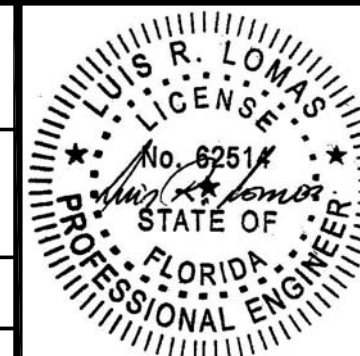
MI WINDOWS AND DOORS, LLC

650 W. MARKET ST
GRATZ, PA 17030

185 TRIPLE PICTURE WINDOW
159" X 54" – NON IMPACT
FINLESS INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-02949	REV -
SCALE NTS	DATE 09/08/16	SHEET 12 OF 12

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