

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	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.
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. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION 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: EXTRUDED ALUMINUM 6063-T5.
12. UNITS MUST BE GLAZED PER ASTM E1300-04/09, SEE SHEET 11 FOR GLASS DETAILS.
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 #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FRAME 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" 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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SHEET NO.	DESCRIPTION
1	NOTES
2 - 3	ELEVATIONS
4 - 10	INSTALLATION DETAILS
11	COMPONENTS

MI WINDOWS AND DOORS, LLC

650 WEST MARKET STREET

GRATZ, PA 17030-0370

SERIES 185 ALUMINUM SINGLE HUNG WINDOW

52" X 72" NON-IMPACT

NOTES

DRAWN:

N.G.

DWG NO.

08-02549

REV

B

SCALE

NTS

DATE

12/29/14

SHEET

1

OF

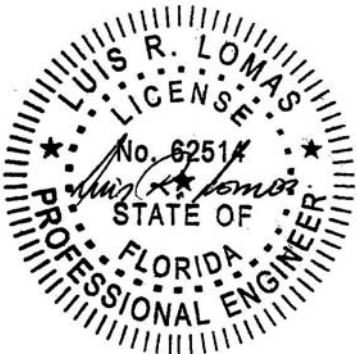
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L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

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SIGNED: 02/27/2020



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

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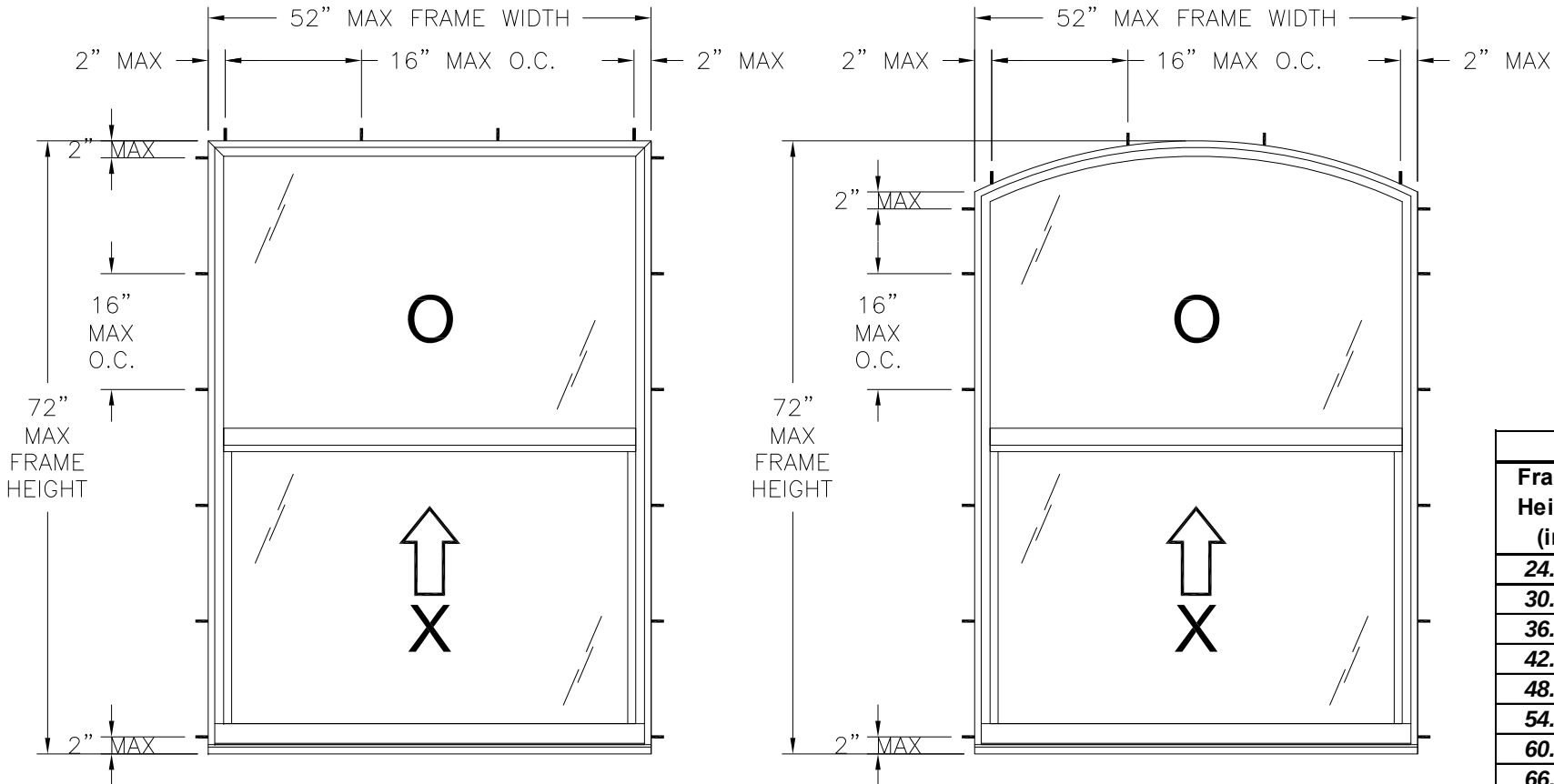


CHART #1

Number of anchor locations required														
Frame Height (in)	Frame Width (in)													
	18.00		24.00		30.00		36.00		42.00		48.00		52.00	
	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
24.00	2	3	3	3	3	3	3	3	4	3	4	3	4	3
30.00	2	3	3	3	3	3	3	3	4	3	4	3	4	3
36.00	2	3	3	3	3	3	3	3	4	3	4	3	4	3
42.00	2	4	3	4	3	4	3	4	4	4	4	4	4	4
48.00	2	4	3	4	3	4	3	4	4	4	4	4	4	4
54.00	2	5	3	5	3	5	3	5	4	5	4	5	4	5
60.00	2	5	3	5	3	5	3	5	4	5	4	5	4	5
66.00	2	5	3	5	3	5	3	5	4	5	4	5	4	5
72.00	2	6	3	6	3	6	3	6	4	6	4	6	4	6

185 ALUMINUM SINGLE HUNG WINDOW
EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION
SEE CHART #1 FOR SMALLER UNITS REQUIRED ANCHORS

185 ALUMINUM SINGLE HUNG WINDOW
DESIGNER EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION
SEE CHART #1 FOR SMALLER UNITS REQUIRED ANCHORS

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	NONE

- NOTES:
1. MAXIMUM SASH SIZE: 51" X 36".
 2. MAXIMUM SASH D.L.O.: 47 5/8" X 32 1/2".
 3. MAXIMUM FIXED D.L.O.: 49 3/8" X 32 1/2".

HARDWARE SCHEDULE	
A.	(2) METAL SWEEP LOCK AT 8" FROM EACH END INTERIOR MEETING RAIL
B.	(2) BLOCK AND TACKLE BALANCE AT JAMBS

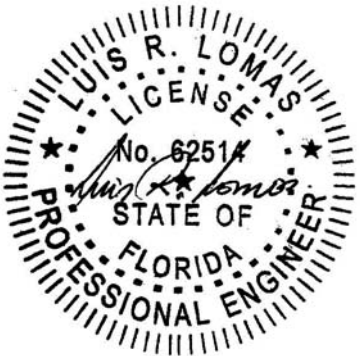
MI WINDOWS AND DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 185 ALUMINUM SINGLE HUNG WINDOW
52" X 72" NON-IMPACT
FLANGE & FINLESS ELEVATIONS

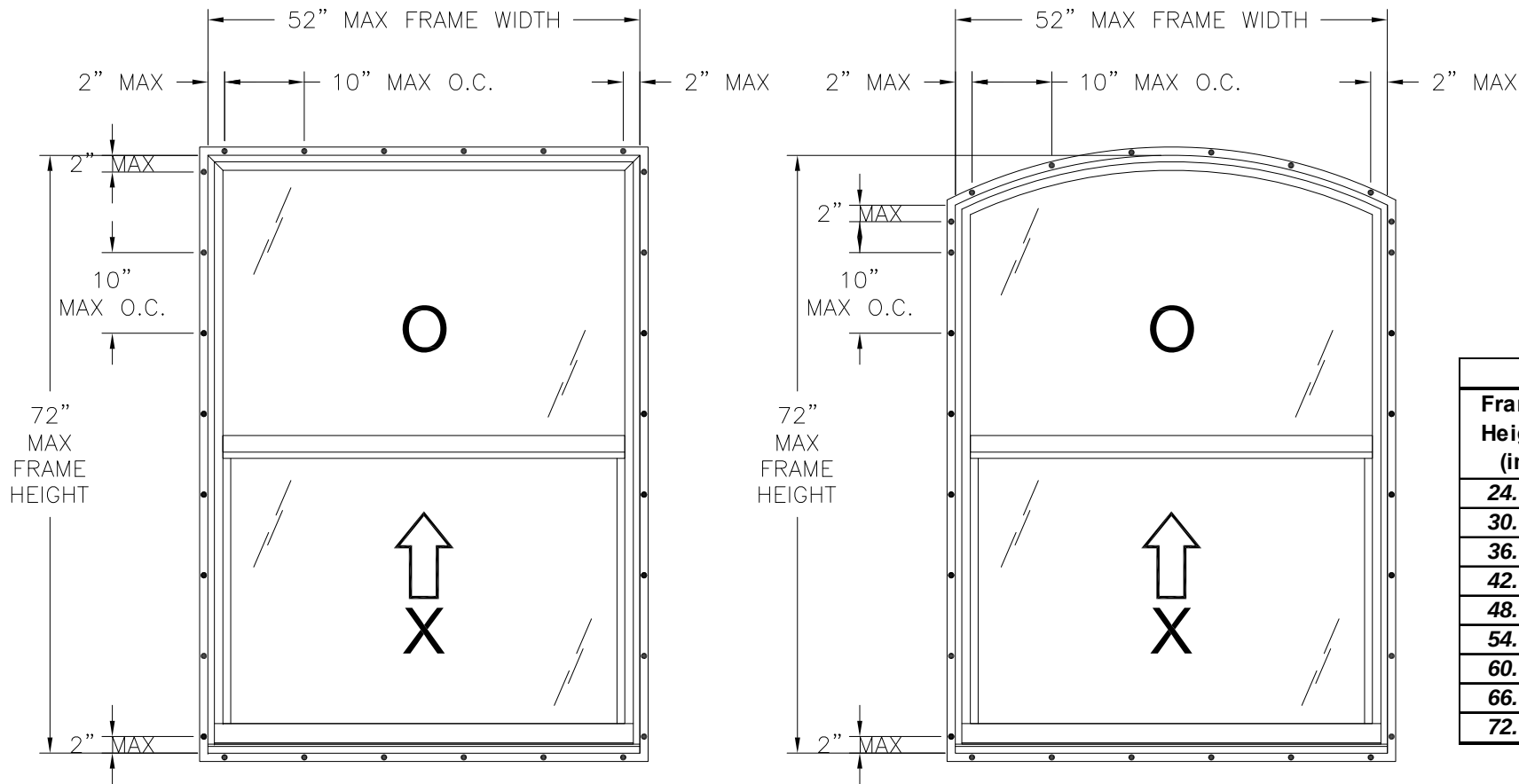
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SCALE NTS	DATE 12/29/14	SHEET 2 OF 11

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185 ALUMINUM SINGLE HUNG WINDOW
EXTERIOR VIEW
FIN INSTALLATION
SEE CHART #2 FOR SMALLER UNITS REQUIRED ANCHORS

185 ALUMINUM SINGLE HUNG WINDOW
EXTERIOR VIEW
FIN INSTALLATION
SEE CHART #2 FOR SMALLER UNITS REQUIRED ANCHORS

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±60.0PSF	NONE

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CHART #2

Frame Height (in)	Number of anchor locations required													
	Frame Width (in)													
	18.00		24.00		30.00		36.00		42.00		48.00		52.00	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
24.00	3	3	3	3	4	3	5	3	5	3	6	3	6	3
30.00	3	4	3	4	4	4	5	4	5	4	6	4	6	4
36.00	3	5	3	5	4	5	5	5	5	5	6	5	6	5
42.00	3	5	3	5	4	5	5	5	5	5	6	5	6	5
48.00	3	6	3	6	4	6	5	6	5	6	6	6	6	6
54.00	3	6	3	6	4	6	5	6	5	6	6	6	6	6
60.00	3	7	3	7	4	7	5	7	5	7	6	7	6	7
66.00	3	8	3	8	4	8	5	8	5	8	6	8	6	8
72.00	3	8	3	8	4	8	5	8	5	8	6	8	6	8

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650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 185 ALUMINUM SINGLE HUNG WINDOW
52" X 72" NON-IMPACT
FIN ELEVATIONS

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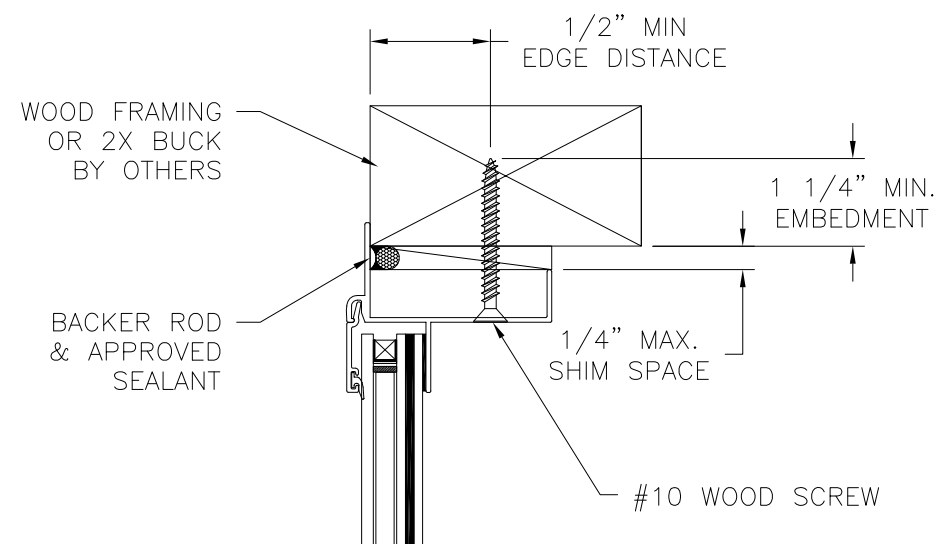
SHEET
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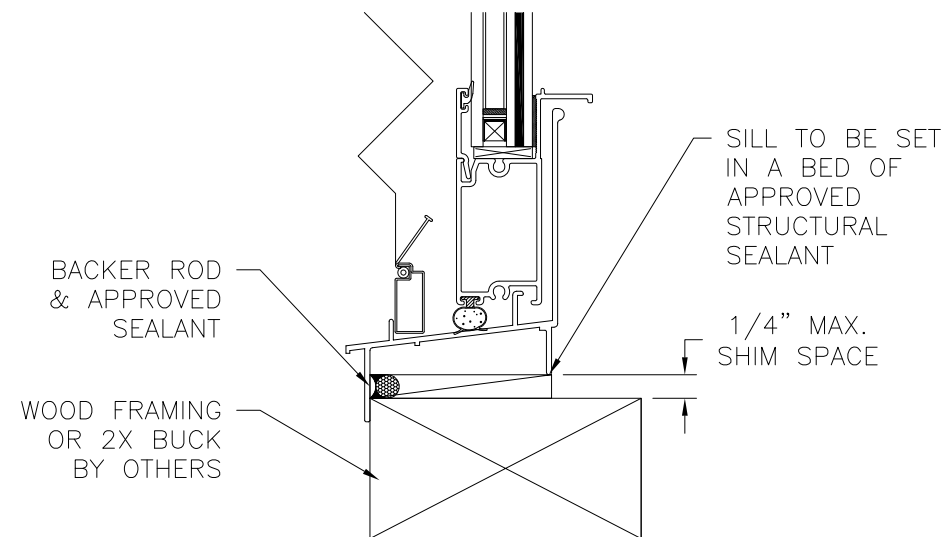
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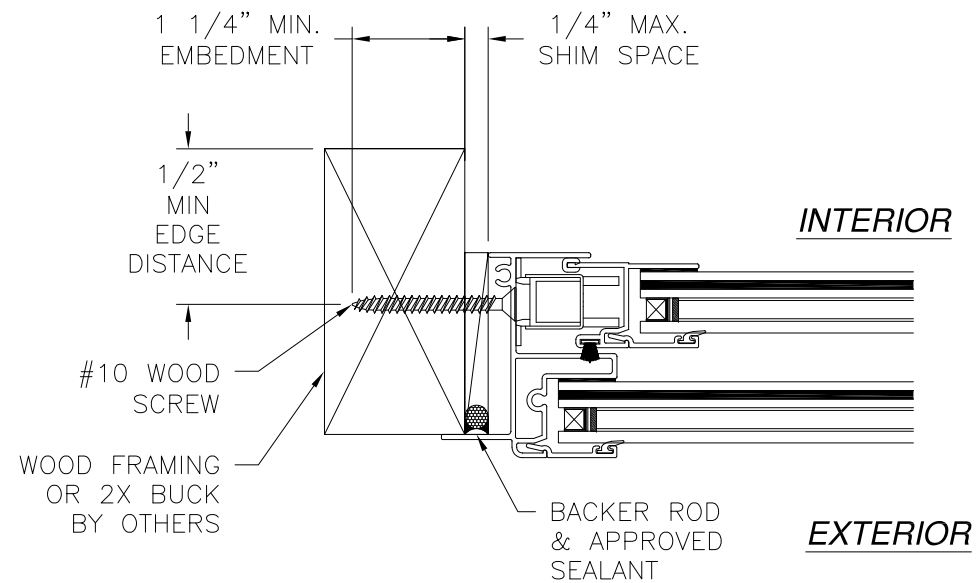
INTERIOR

EXTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

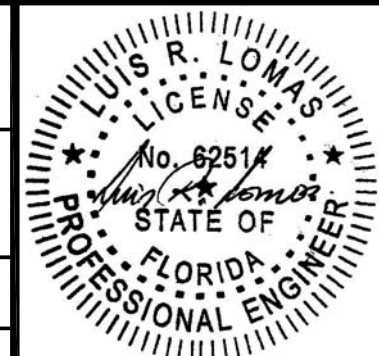
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

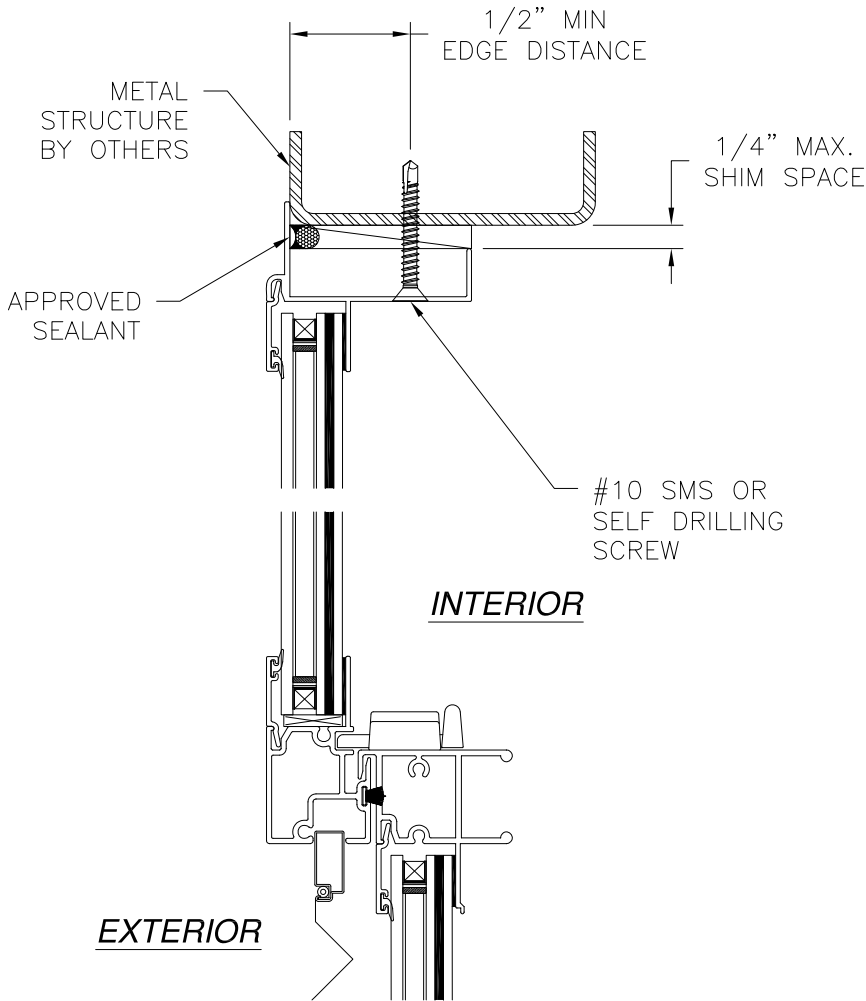
MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
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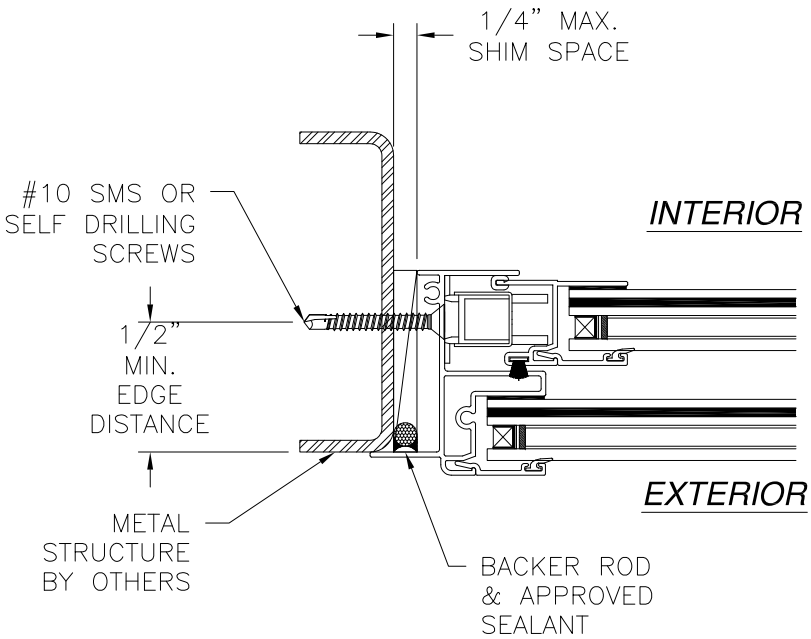
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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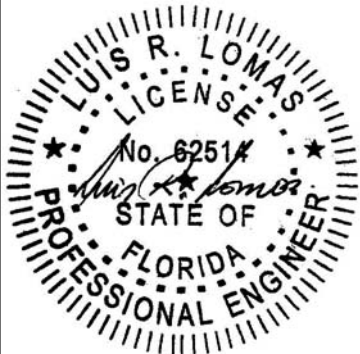
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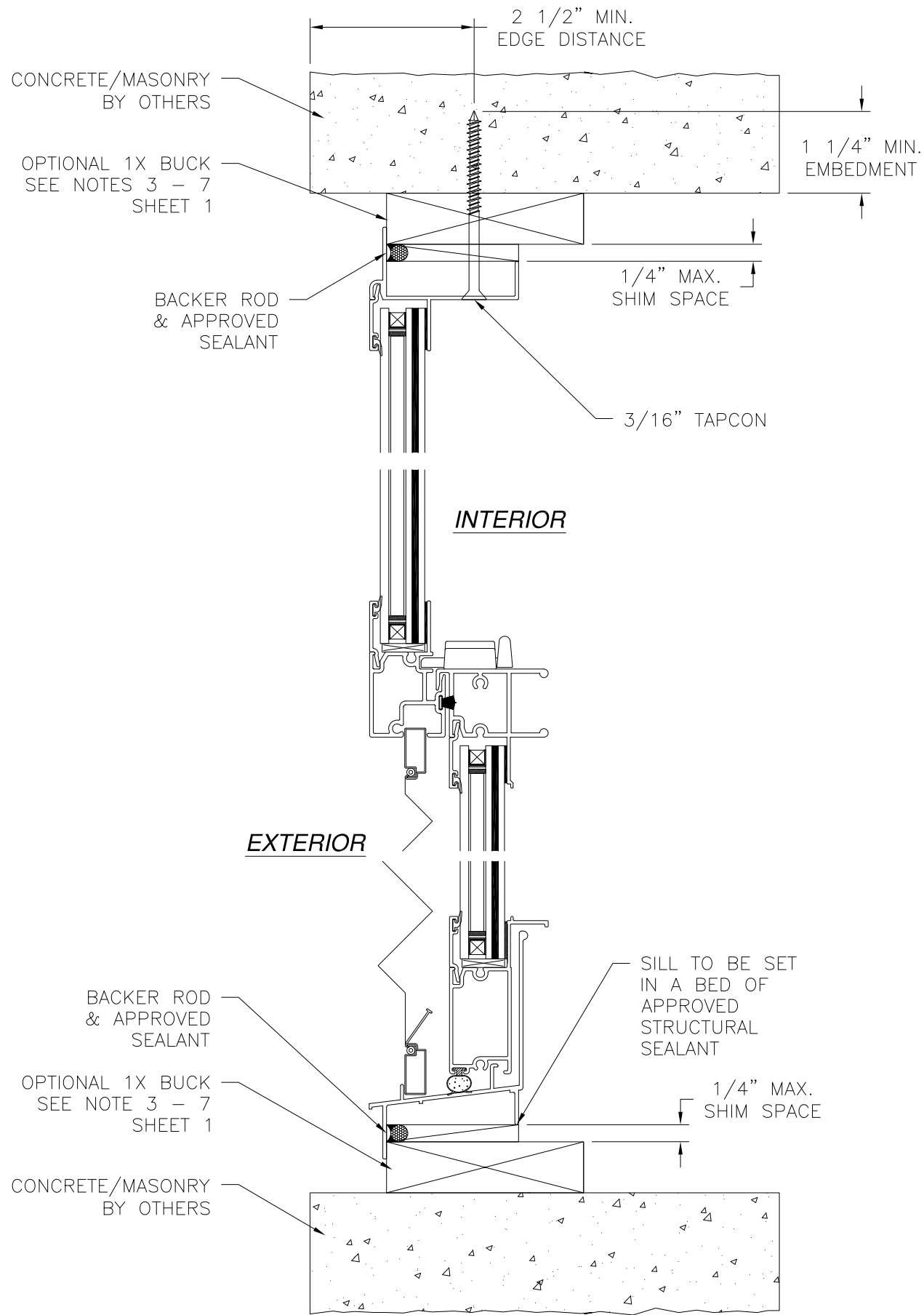
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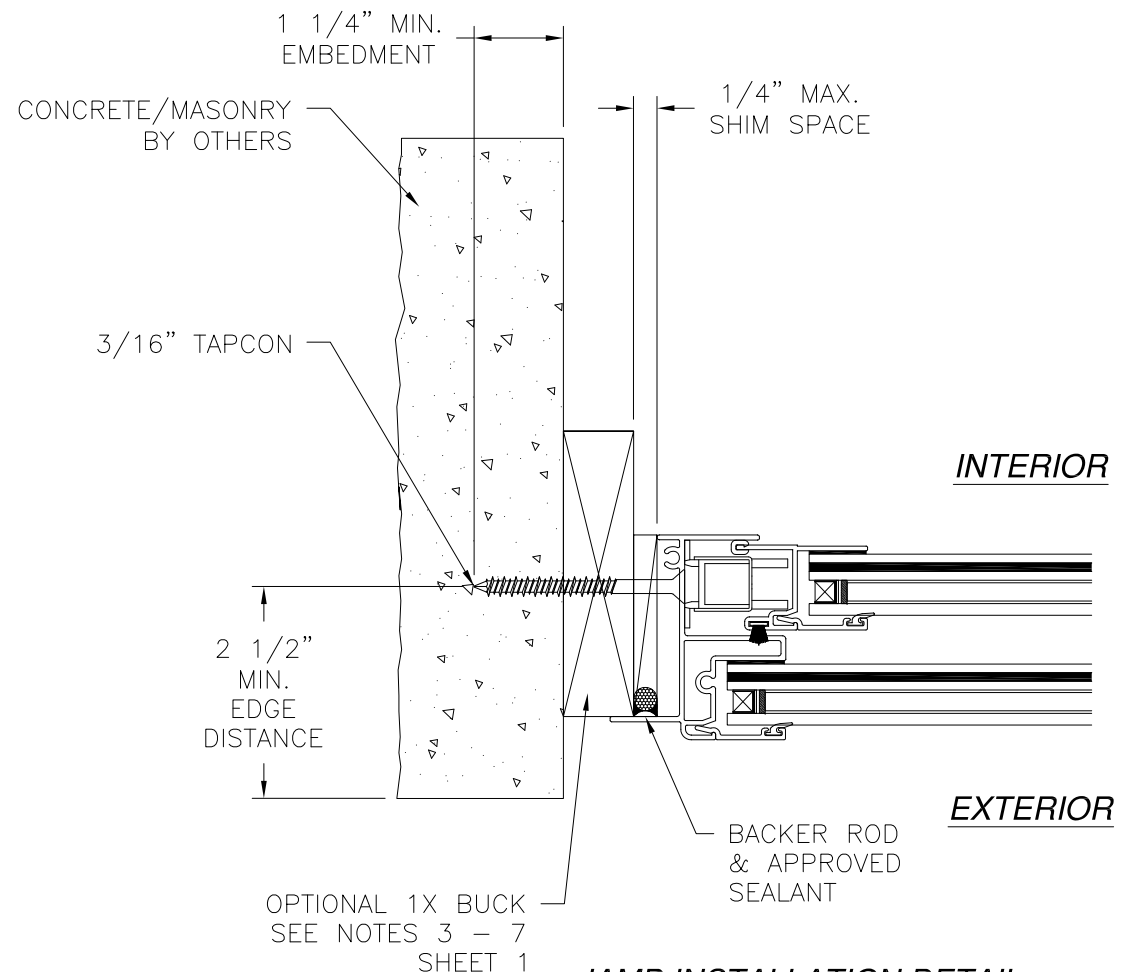
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

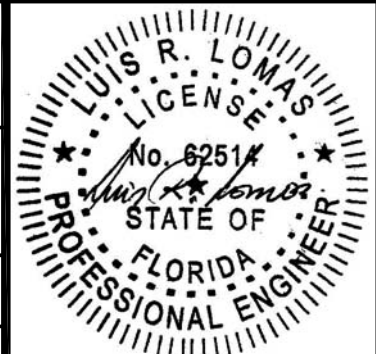


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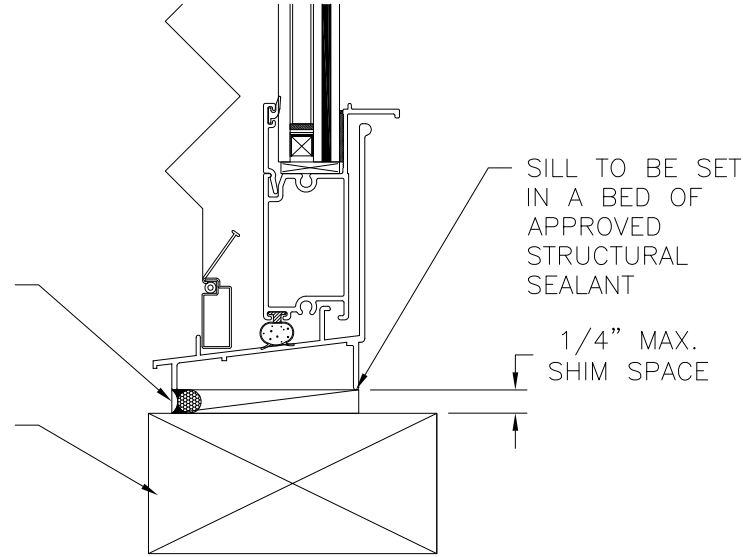
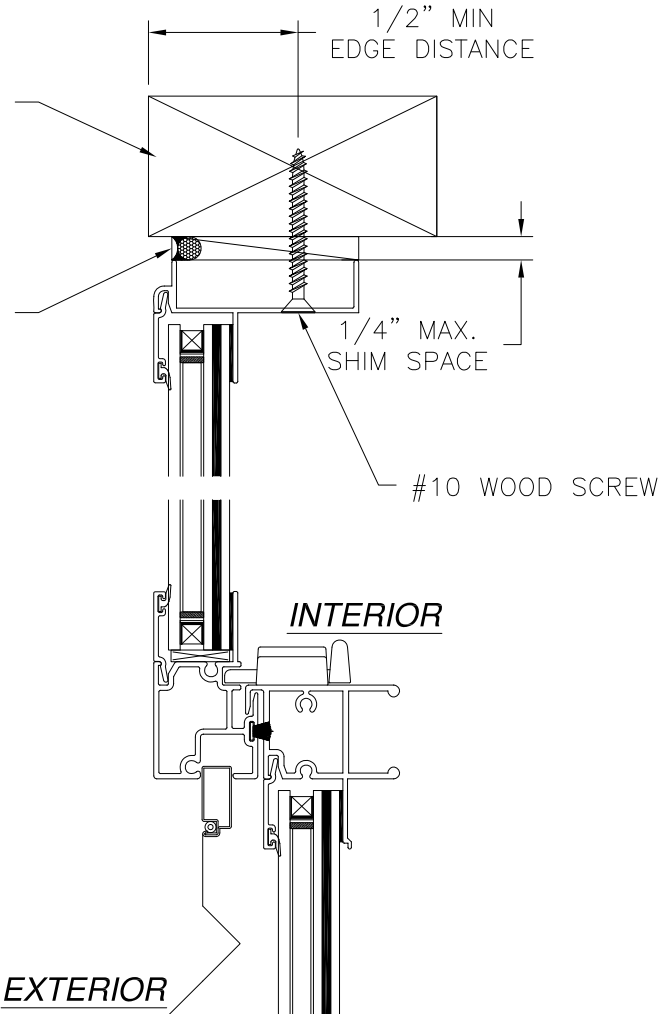
MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
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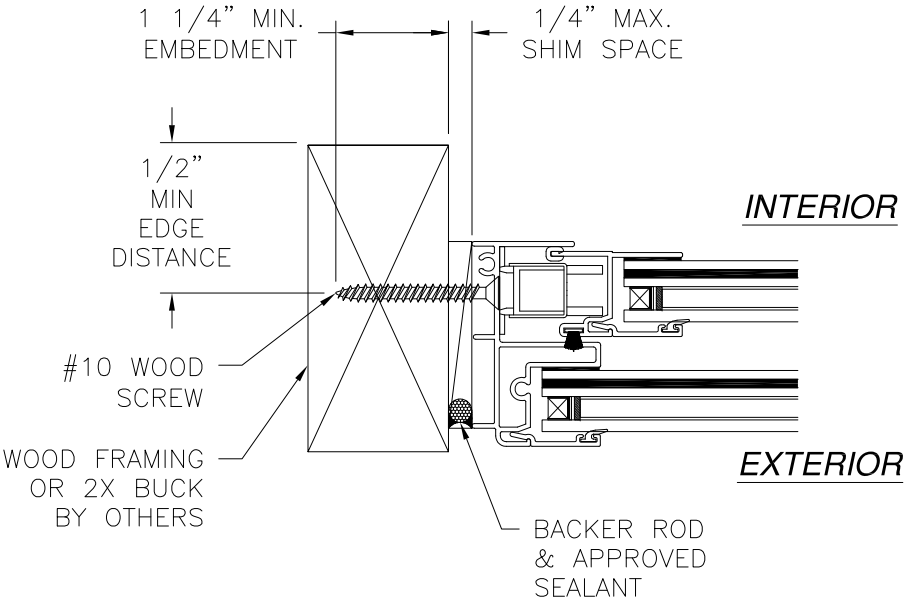
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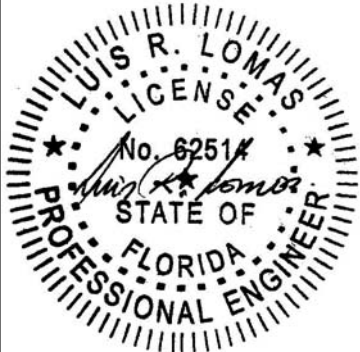
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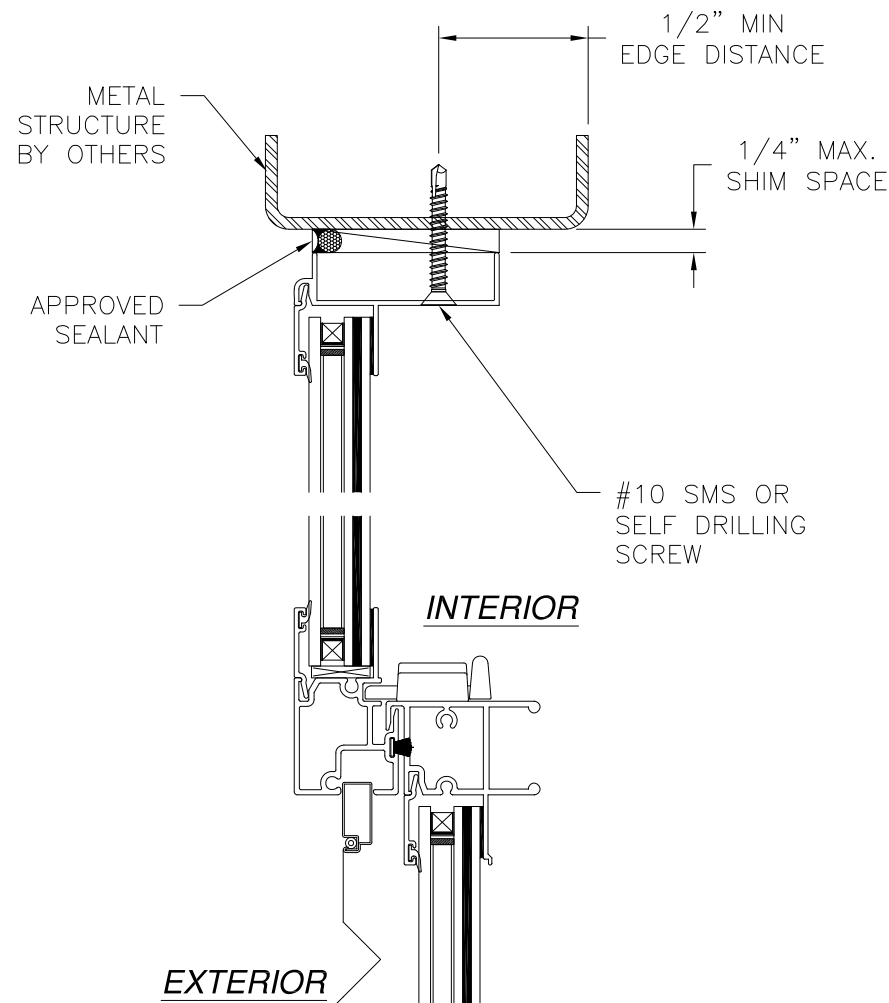
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
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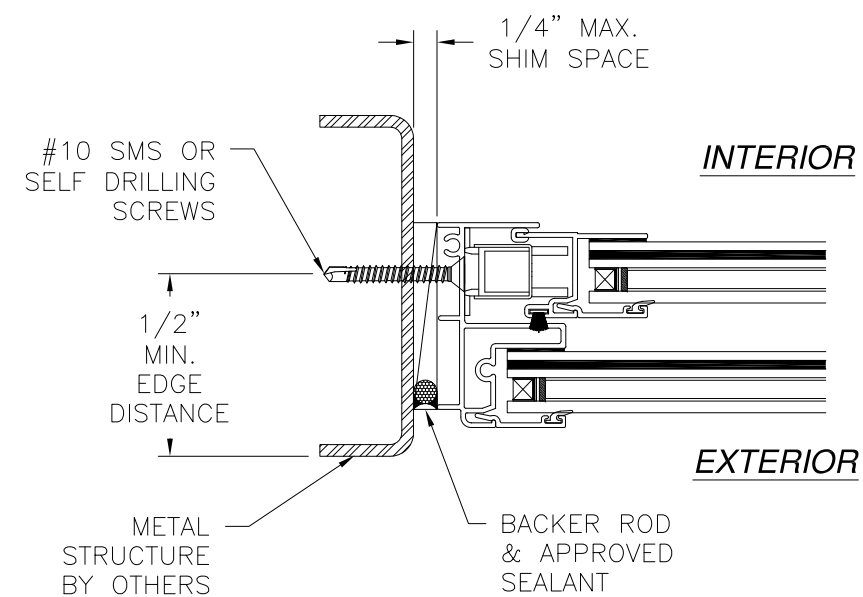


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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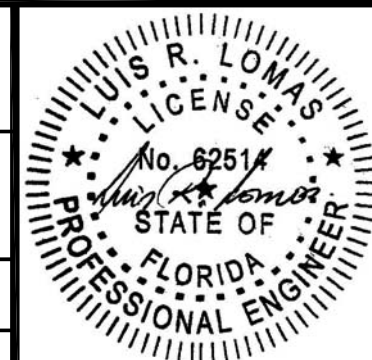


JAMB INSTALLATION DETAIL
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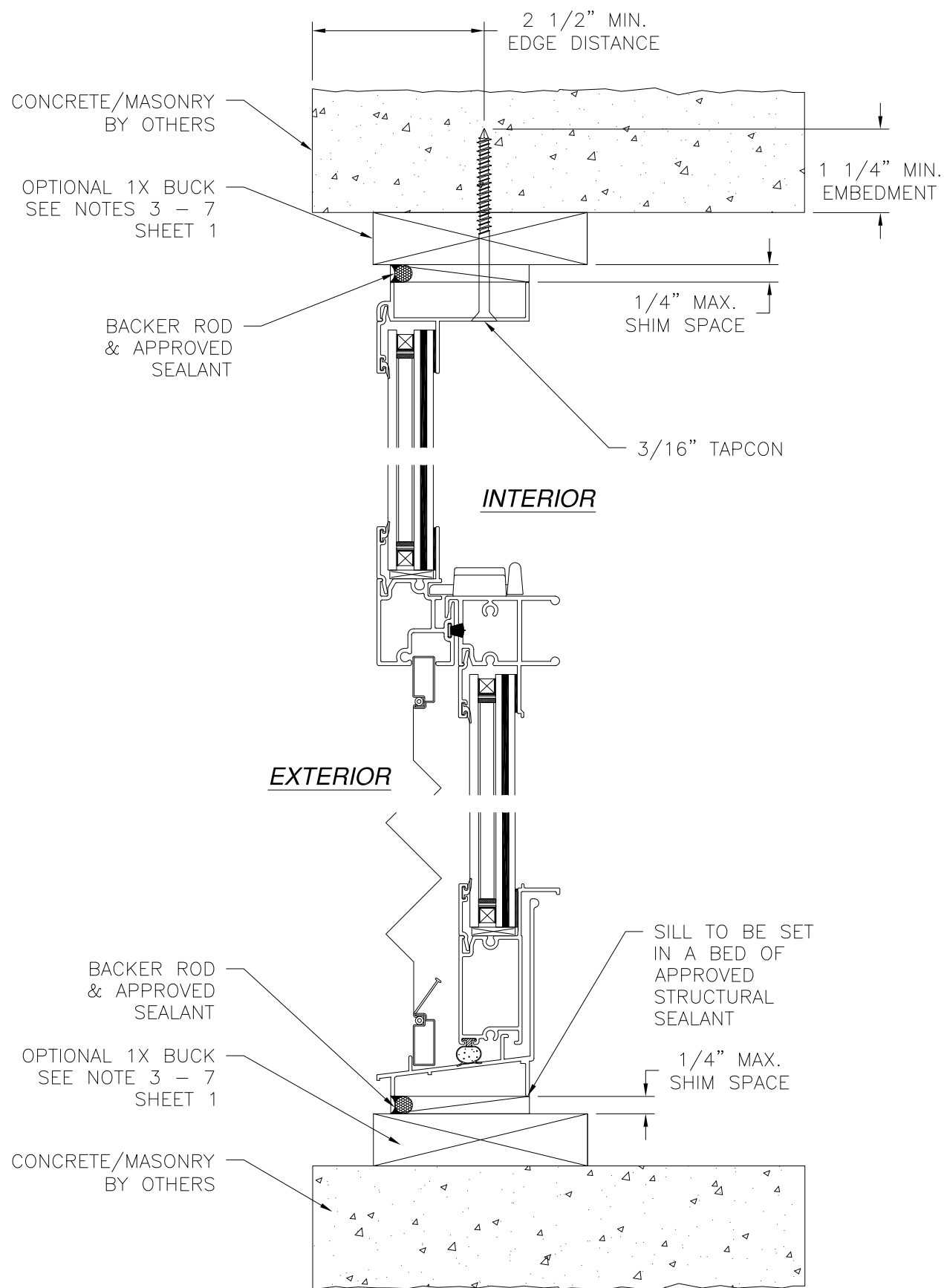
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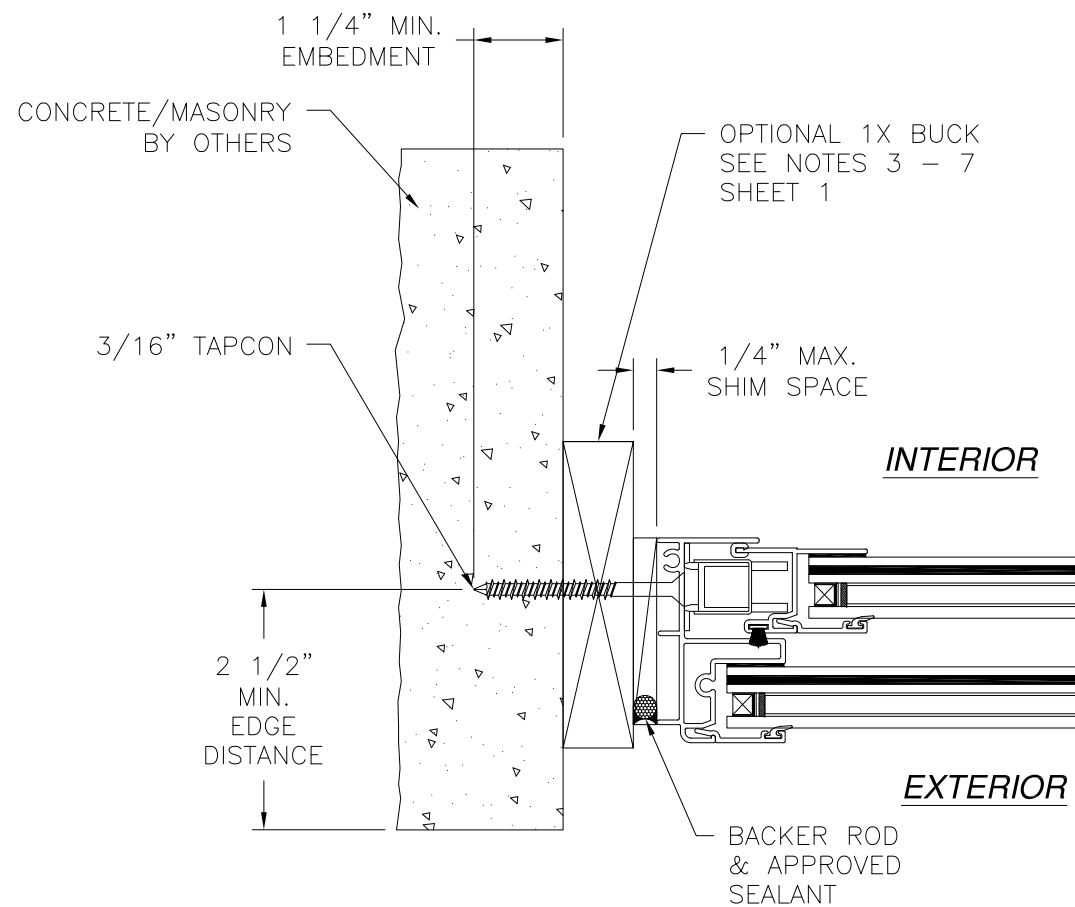
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



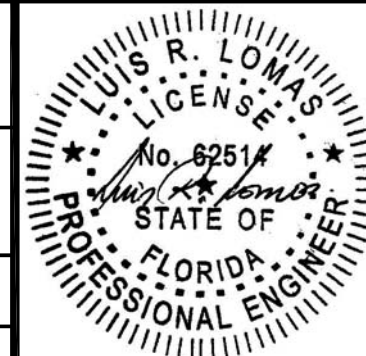
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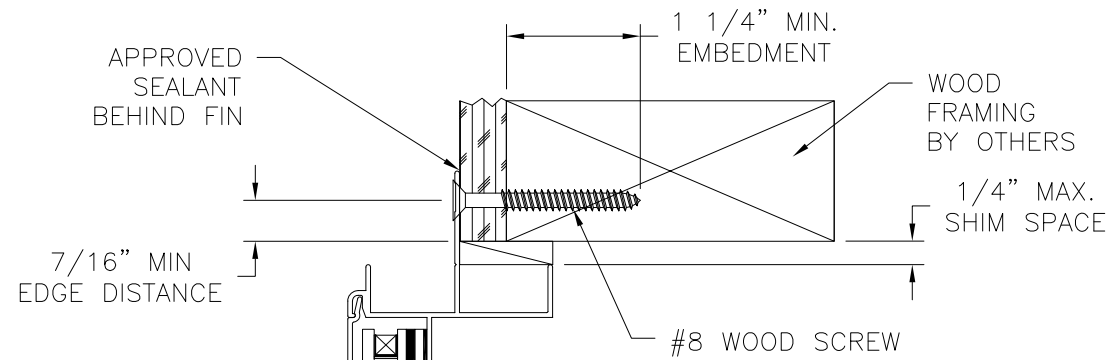
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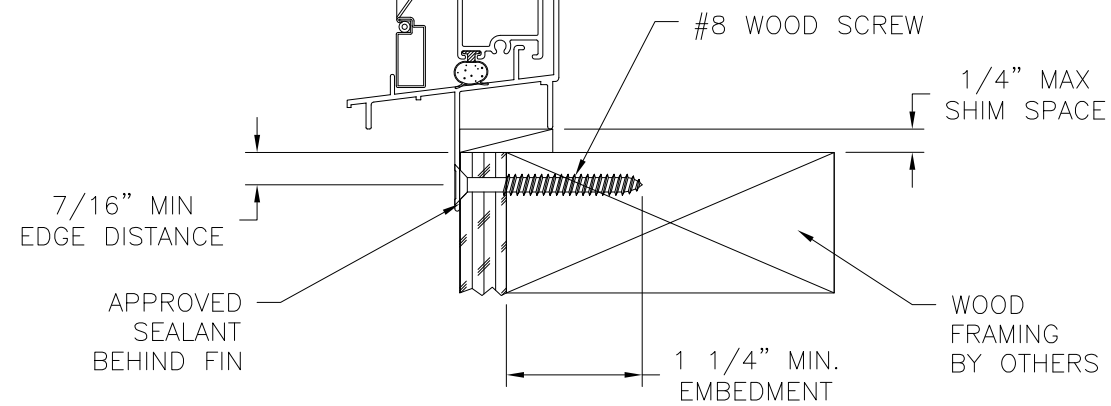


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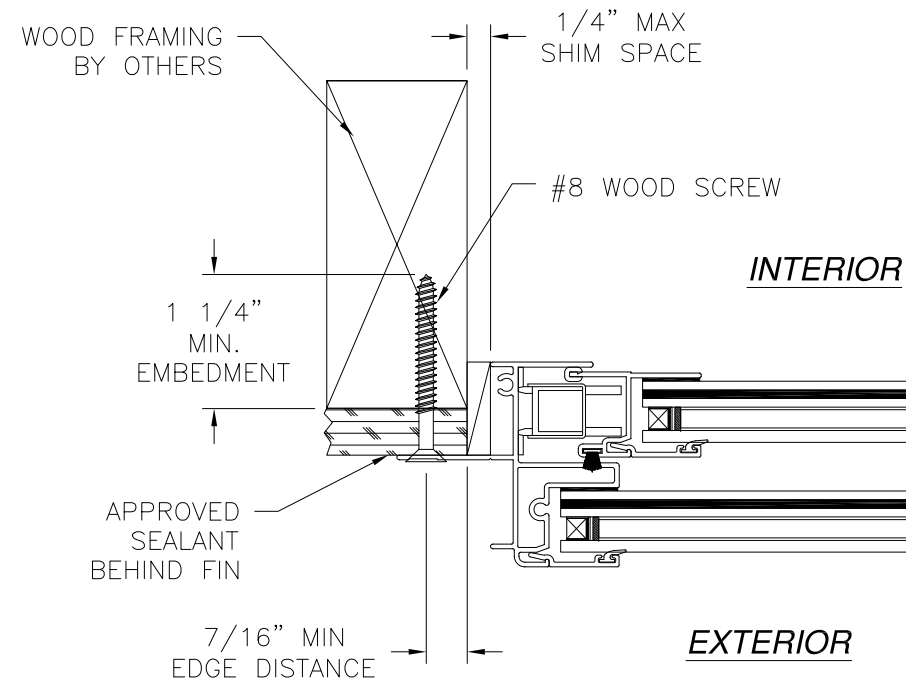


INTERIOR

EXTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



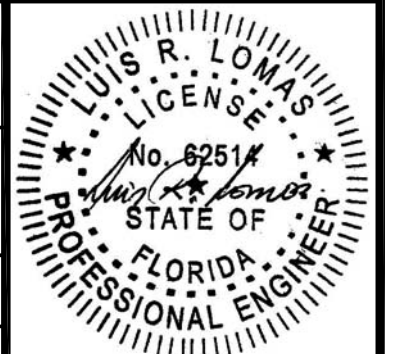
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1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

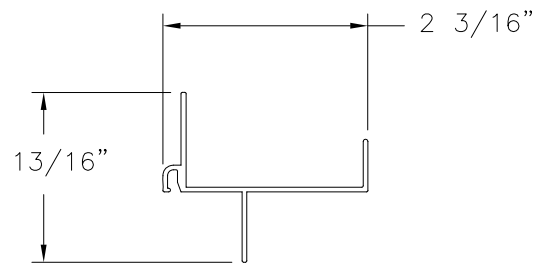
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 52" X 72" NON-IMPACT FIN INSTALLATION DETAILS		
DRAWN: N.G.	DWG NO. 08-02549	REV B
SCALE NTS	DATE 12/29/14	SHEET 10 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 02/27/2020



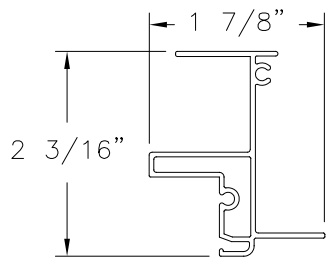
Luis R. Lomas P.E.
FL No.: 62514



FLANGE FRAME HEAD

CM-18501

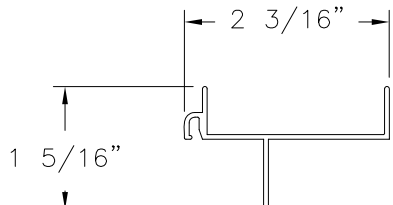
ALUMINUM 6063-T5 .050" THICK



FLANGE FRAME JAMB

CM-18503

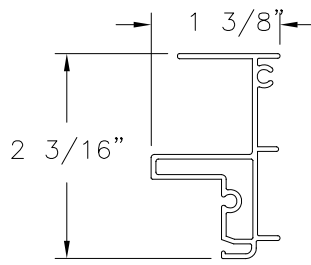
ALUMINUM 6063-T5 .050" THICK



FINLESS FRAME HEAD

CM-18553

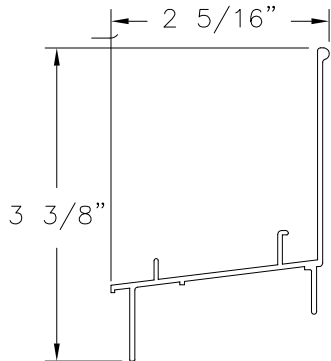
ALUMINUM 6063-T5 .050" THICK



FINLESS FRAME JAMB

CM-18513

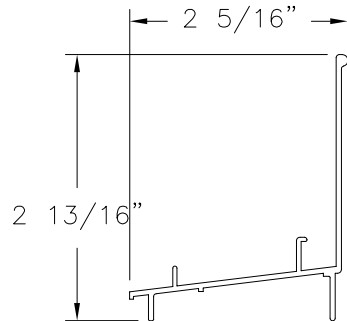
ALUMINUM 6063-T5 .050" THICK



FLANGE FRAME SILL

CM-18502

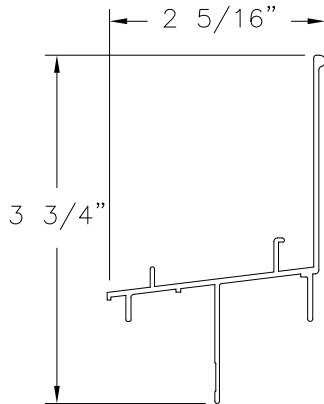
ALUMINUM 6063-T5 .055" THICK



FINLESS FRAME SILL

CM-18554

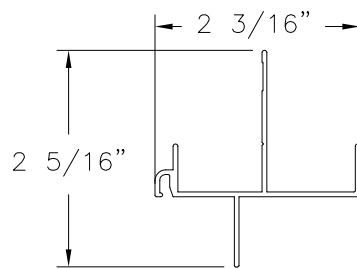
ALUMINUM 6063-T5 .055" THICK



FIN FRAME SILL

CM-18509

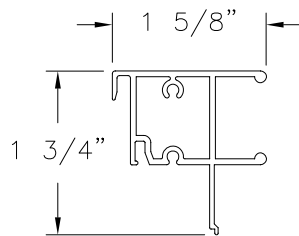
ALUMINUM 6063-T5 .055" THICK



FIN FRAME HEAD

CM-18508

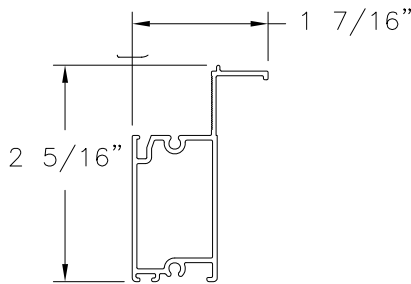
ALUMINUM 6063-T5 .050" THICK



LOCK RAIL/STILE

CM-18505

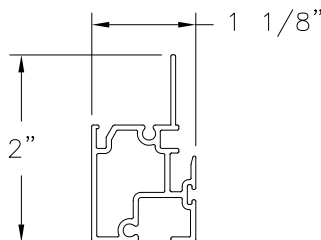
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SASH BOTTOM RAIL

CM-18555

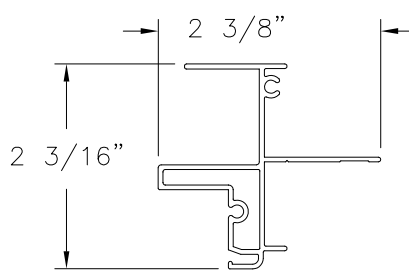
ALUMINUM 6063-T5 .050" THICK



MEETING RAIL

CM-18504

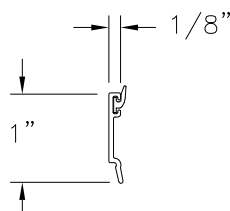
ALUMINUM 6063-T5 .055" THICK



FIN FRAME JAMB

CM-18510

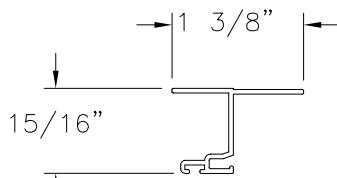
ALUMINUM 6063-T5 .050" THICK



GLAZING BEAD

CM-18535

RIGID PVC .050" THICK

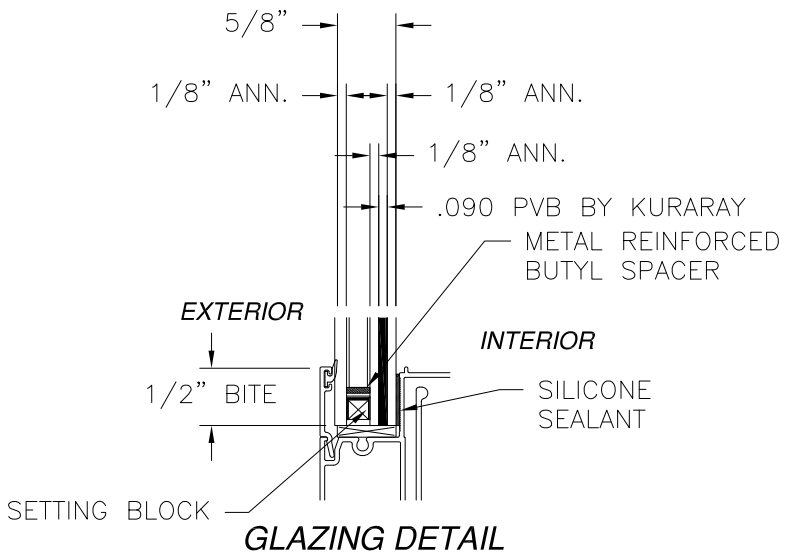


SASH STILE

CM-18507

ALUMINUM 6063-T5 .050" THICK

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.



SIGNED: 02/27/2020

MI WINDOWS AND DOORS, LLC

650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 185 ALUMINUM SINGLE HUNG WINDOW
52" X 72" NON-IMPACT
COMPONENTS

DRAWN:

N.G.

DWG NO.

08-02549

REV

B

SCALE NTS

DATE

12/29/14

SHEET

11 OF 11

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



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