

| REVISIONS |                                   |            |          |
|-----------|-----------------------------------|------------|----------|
| REV       | DESCRIPTION                       | DATE       | APPROVED |
| A         | ADDED SILL INSTALLATIONS          | 01/11/18   | R.L.     |
| B         | REVISED TO ADD NEW CONFIGURATIONS | 11/20/2020 | 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 RIGID PVC.
  12. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
  13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
  14. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4” ELCO ULTRACON 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.
16. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #12 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.
17. FOR ANCHORING THROUGH CLIP 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.
18. FOR ANCHORING THROUGH CLIP INTO MASONRY/CONCRETE USE 1/4” ELCO ULTRACON 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.
19. FOR ANCHORING THROUGH CLIP INTO METAL STRUCTURE USE #8 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.
20. ALL FASTENERS TO BE CORROSION RESISTANT.
21. 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 .125” THICK MINIMUM
22. APPROVED CONFIGURATIONS: XOX, OXO, OOX, XOO, OX, XO.

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| SHEET NO.         | DESCRIPTION             |
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| 5 – 7             | INSTALLATION DETAILS    |
| 8                 | COMPONENTS              |

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

SERIES 1615/1617 PVC SLIDING GLASS DOOR  
NON-IMPACT OXO  
NOTES

DRAWN:  
A.R.

DWG NO.  
08-03132

REV  
B

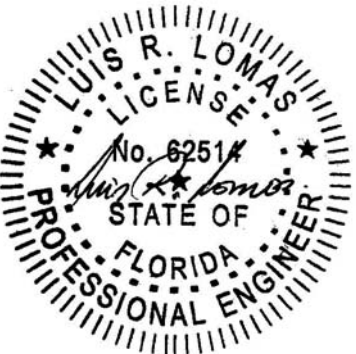
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DATE 06/28/17

SHEET 1 OF 8

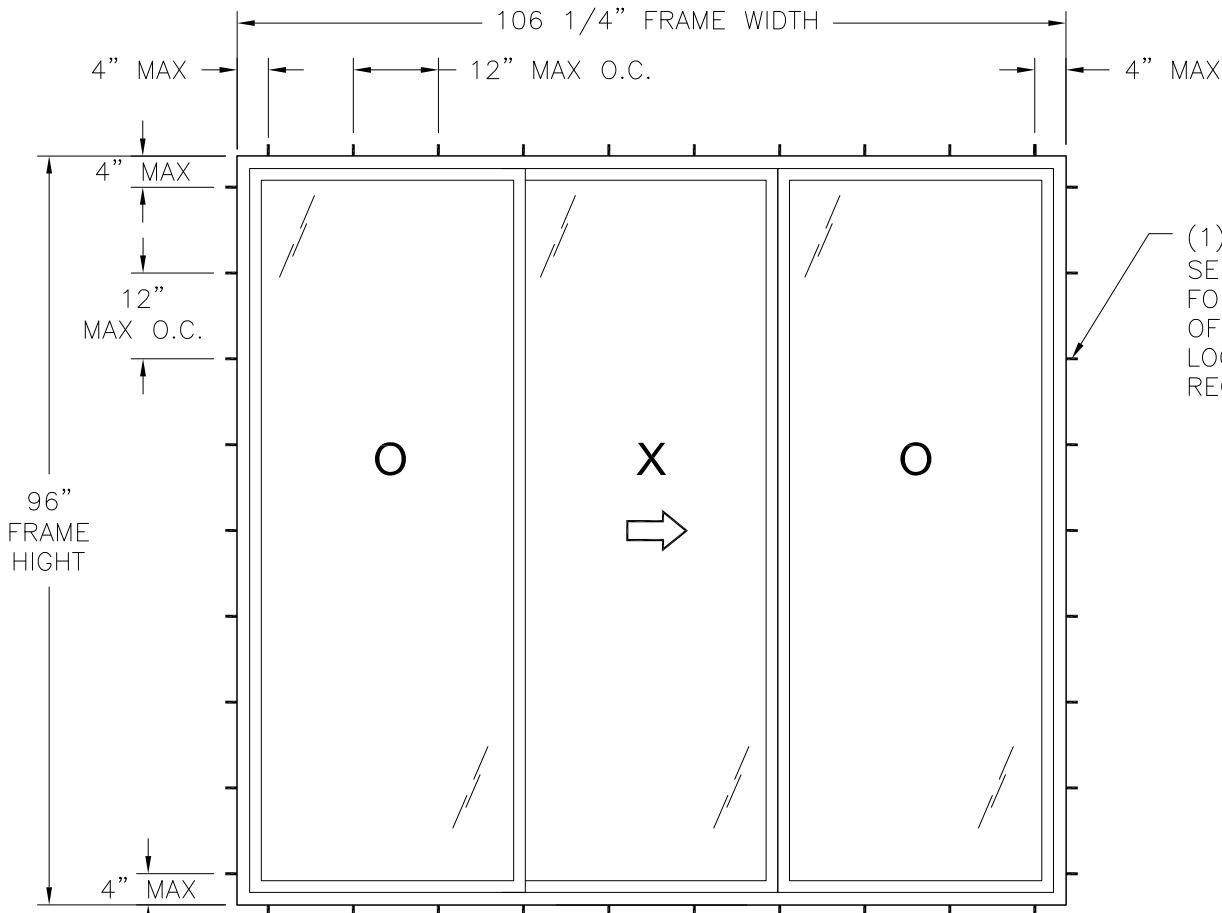
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/08/2020



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

| REVISIONS |                                   |            |          |
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- NOTES:
- 1. MAXIMUM PANEL SIZE: 35 5/8" x 91 13/16"
  - 2. MAXIMUM D.L.O.: 29 1/8" x 85 7/16"

CHART #1

| Number of anchor locations required |                  |      |       |      |       |      |        |      |
|-------------------------------------|------------------|------|-------|------|-------|------|--------|------|
| Frame Height (in)                   | Frame Width (in) |      |       |      |       |      |        |      |
|                                     | 54.00            |      | 72.00 |      | 90.00 |      | 106.25 |      |
|                                     | H & S            | Jamb | H & S | Jamb | H & S | Jamb | H & S  | Jamb |
| 80.00                               | 6                | 7    | 7     | 7    | 9     | 7    | 11     | 7    |
| 84.00                               | 6                | 8    | 8     | 8    | 10    | 8    | 11     | 8    |
| 90.00                               | 6                | 8    | 8     | 8    | 10    | 8    | 12     | 8    |
| 94.00                               | 6                | 9    | 9     | 9    | 11    | 9    | 13     | 9    |
| 96.00                               | 7                | 9    | 9     | 9    | 11    | 9    | 13     | 9    |

**SERIES 1615/1617 PVC SLIDING GLASS DOOR NON - IMPACT**  
EXTERIOR VIEW  
3 PANEL CONFIGURATIONS ARE QUALIFIED  
AS LONG AS PANEL AREA DOES NOT EXCEED 23.6 FT², SEE NOTE 22

ANCHORS AT SILL  
TO BE INSTALLED  
THROUGH ANCHOR CLIP

| DESIGN PRESSURE RATING | IMPACT RATING |
|------------------------|---------------|
| ±40.0PSF               | NONE          |

| HARDWARE SCHEDULE |                                              |
|-------------------|----------------------------------------------|
| A.                | (2) HANDLE (9748)                            |
| B.                | (1) LOCK WITH KEEPER (9149)                  |
| C.                | (2) ROLLERS (9732)                           |
| D.                | STEEL REINFORCEMENT (9599) AT MEETING STILES |
| E.                | STEEL REINFORCEMENT (9598) AT LOCKING STILES |

MI WINDOWS & DOORS, LLC.  
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SERIES 1615/1617 PVC SLIDING GLASS DOOR  
NON-IMPACT OXO  
ELEVATION

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REV  
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SHEET 2 OF 8

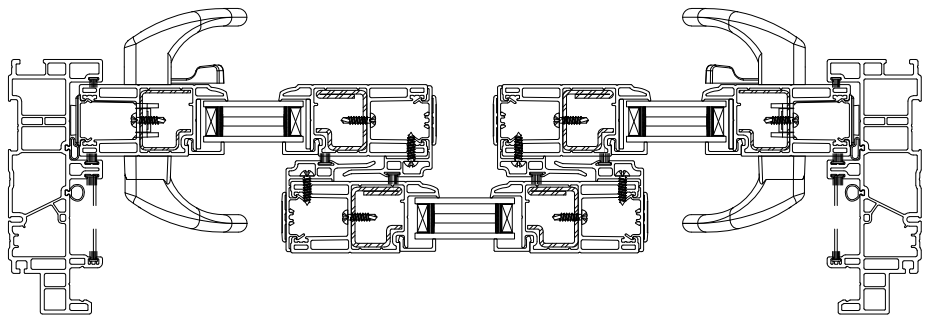
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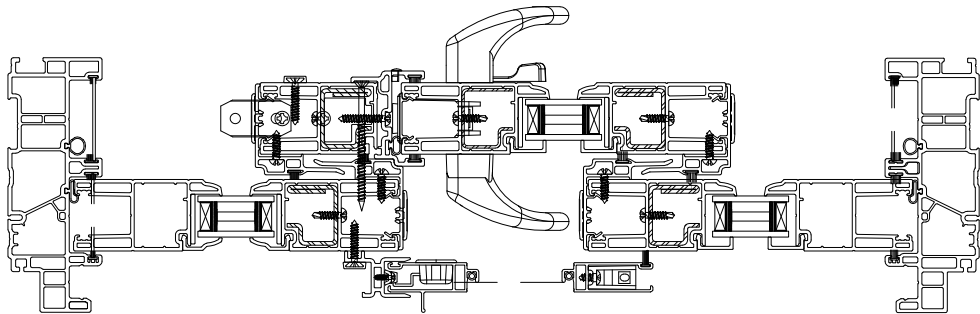


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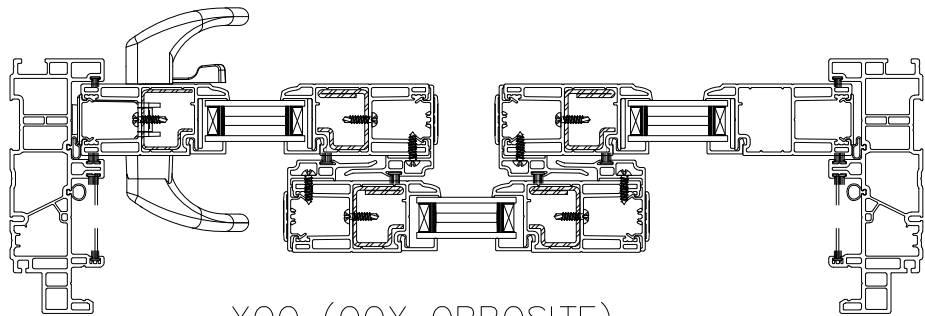
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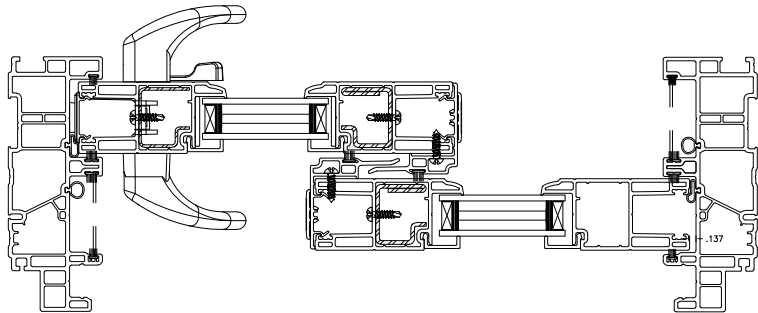
XOX



OXO



XOO (OOX OPPOSITE)



XO (OX OPPOSITE)

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

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GRATZ, PA 17030

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APPROVED CONFIGURATIONS

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08-03132

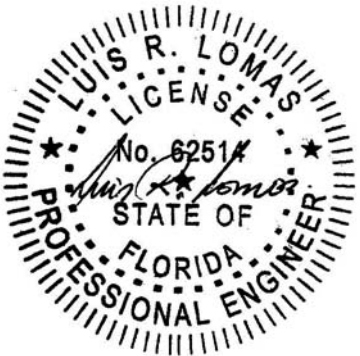
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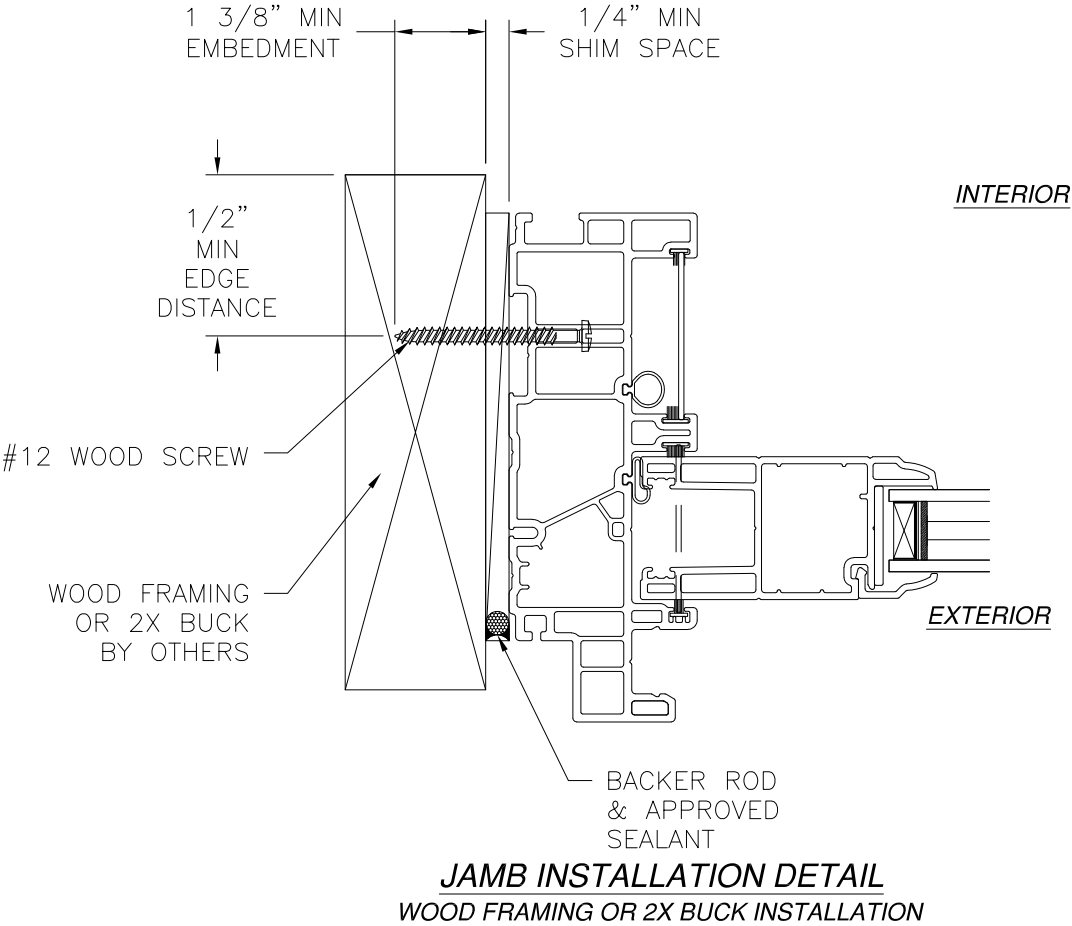
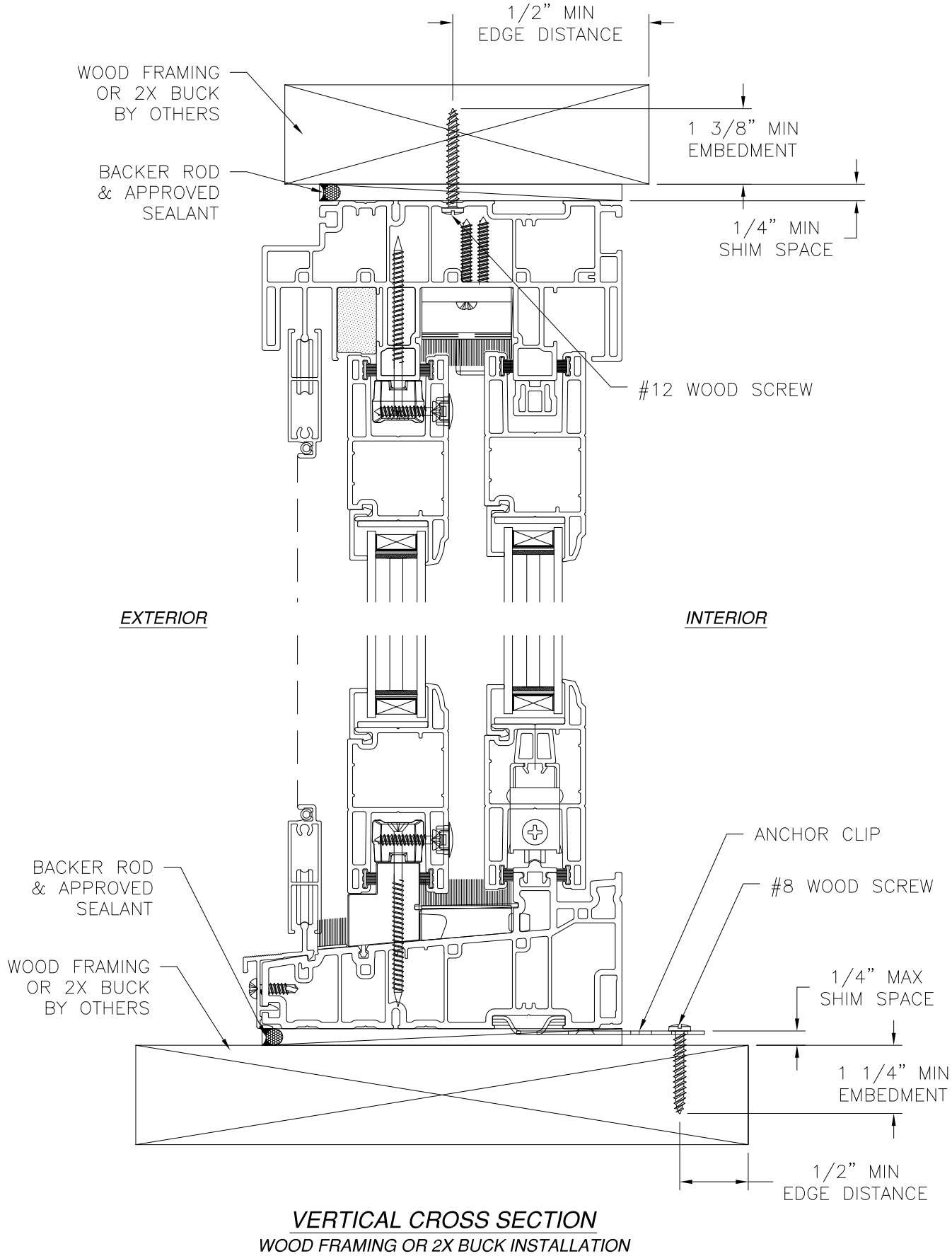
SHEET 3 OF 8

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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

SIGNED: 12/08/2020

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

SERIES 1615/1617 PVC SLIDING GLASS DOOR  
NON-IMPACT OXO  
INSTALLATION DETAILS

DRAWN:  
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08-03132

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NTS

DATE  
06/28/17

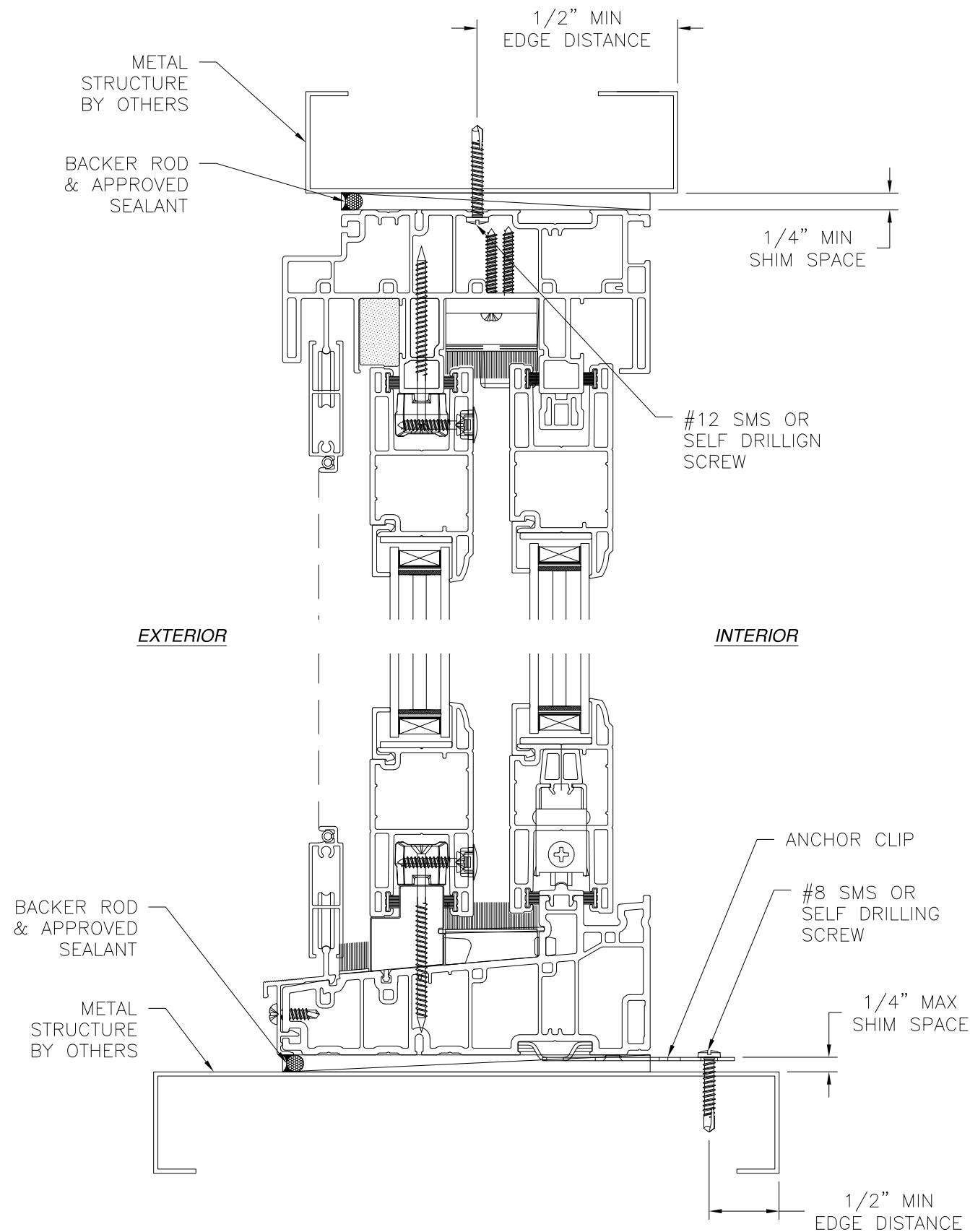
SHEET  
4 OF 8

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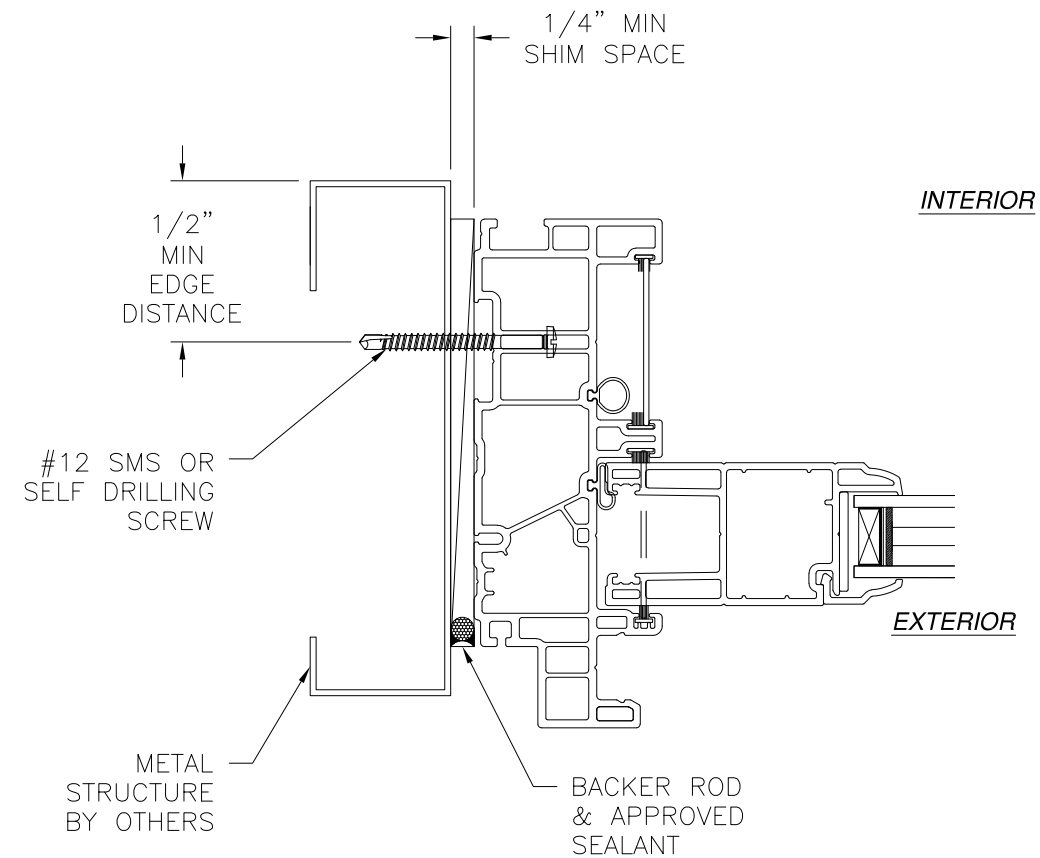


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**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION



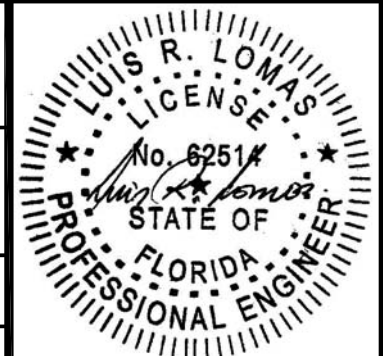
**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE INSTALLATION

**NOTES:**

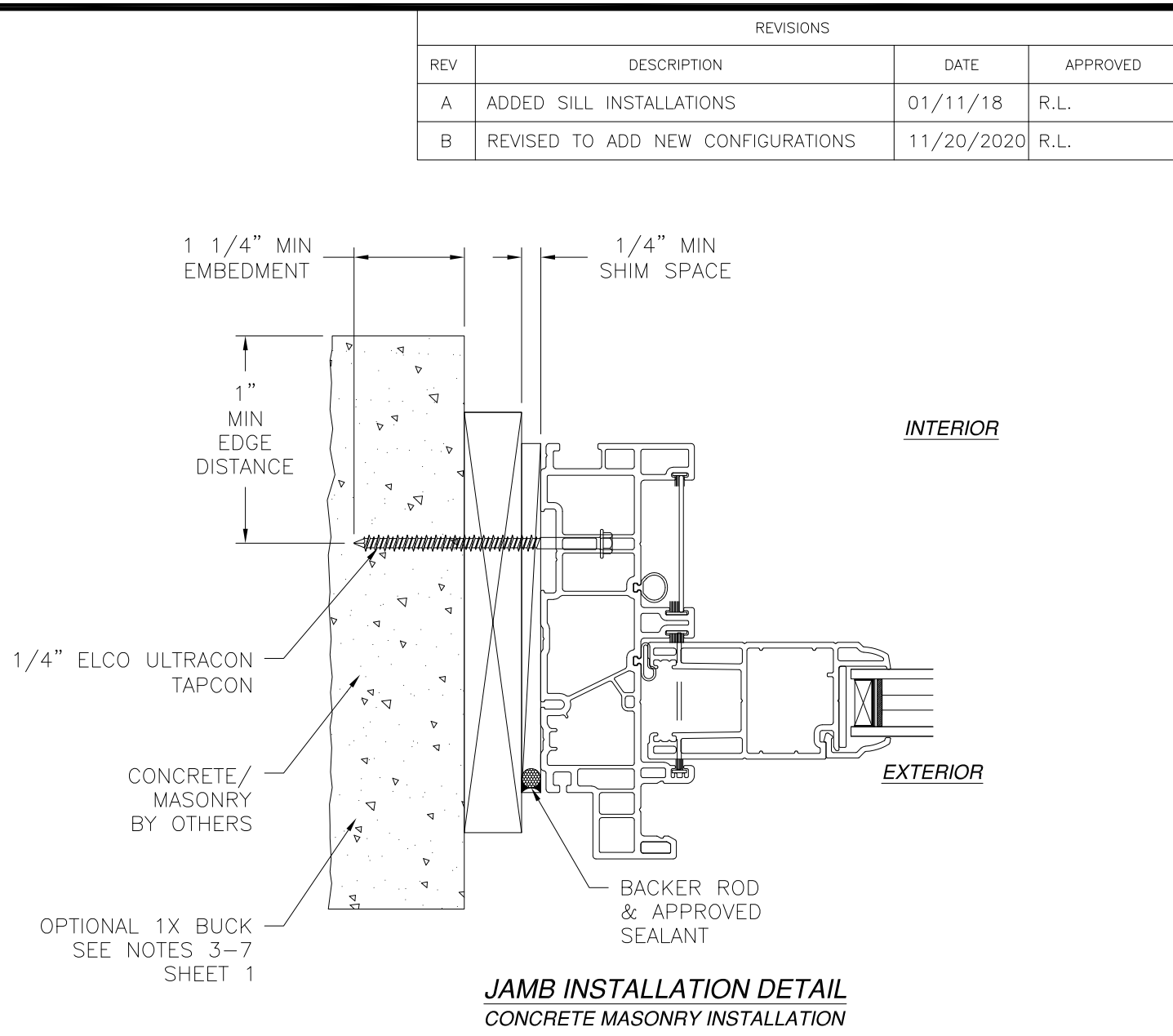
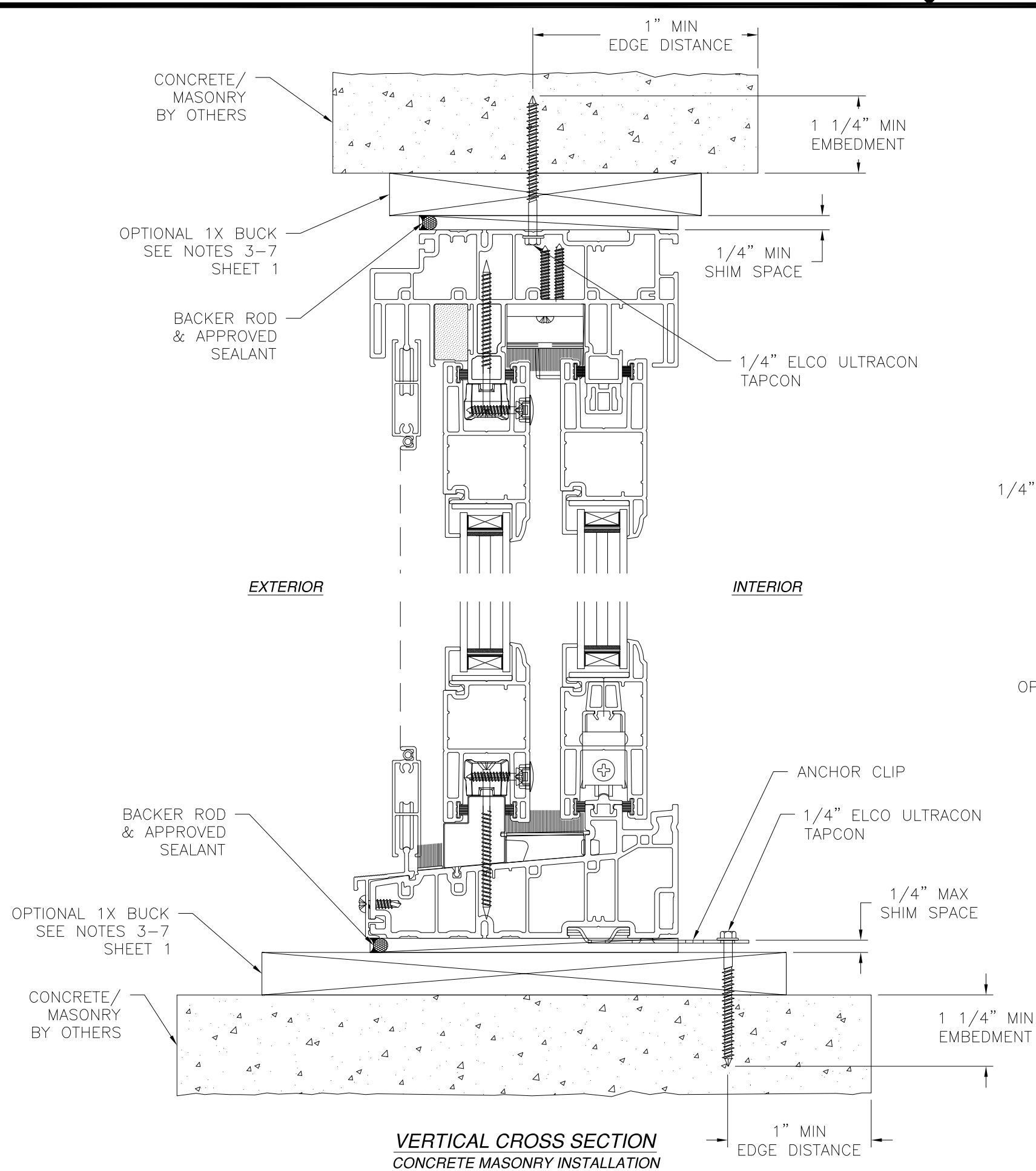
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- PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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|                                                                                                      |                     |                 |
|------------------------------------------------------------------------------------------------------|---------------------|-----------------|
| MI WINDOWS & DOORS, LLC.<br>650 WEST MARKET STREET<br>GRATZ, PA 17030                                |                     |                 |
| SERIES 1615/1617 PVC SLIDING GLASS DOOR<br>NON-IMPACT OXO<br>INSTALLATION DETAILS                    |                     |                 |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03132 | REV<br>B        |
| SCALE<br>NTS                                                                                         | DATE<br>06/28/17    | SHEET<br>5 OF 8 |
| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |



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- NOTES:**
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650 WEST MARKET STREET  
GRATZ, PA 17030

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NON-IMPACT OXO  
INSTALLATION DETAILS

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6 OF 8

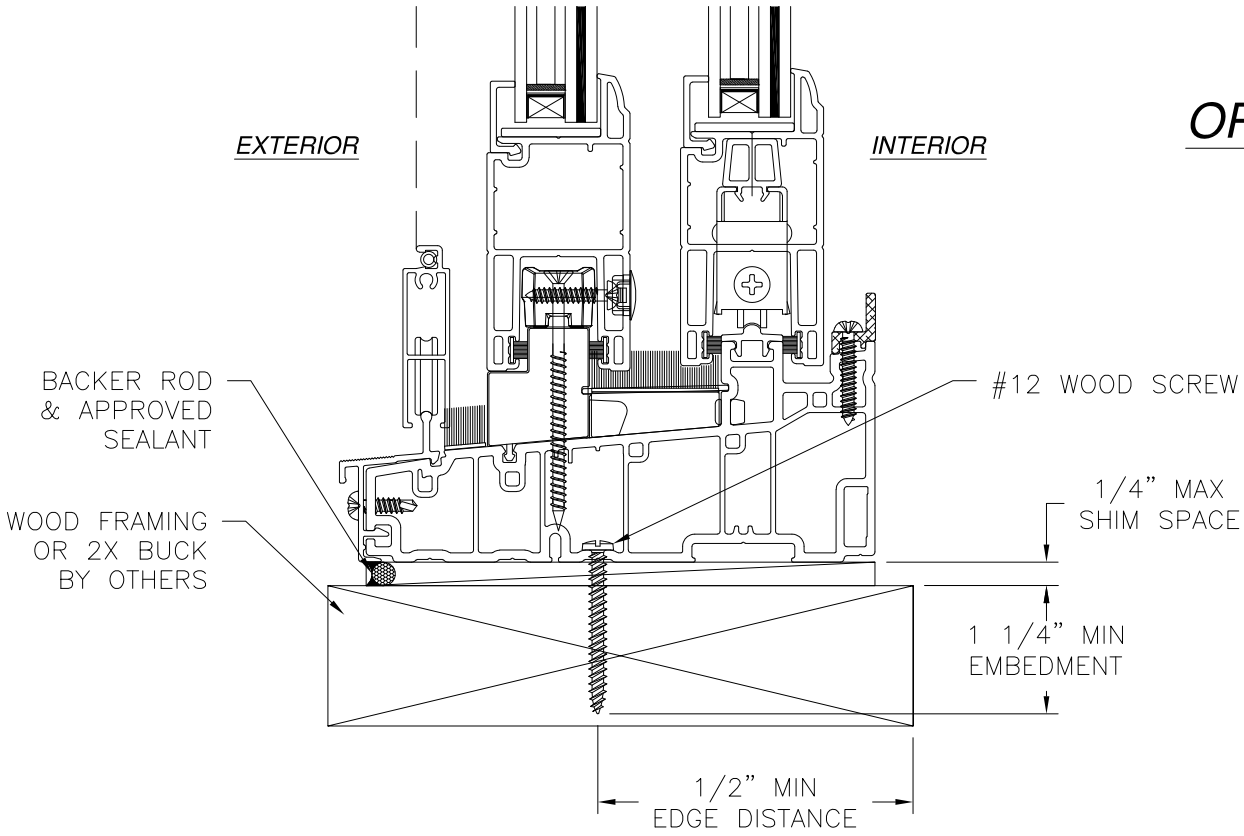
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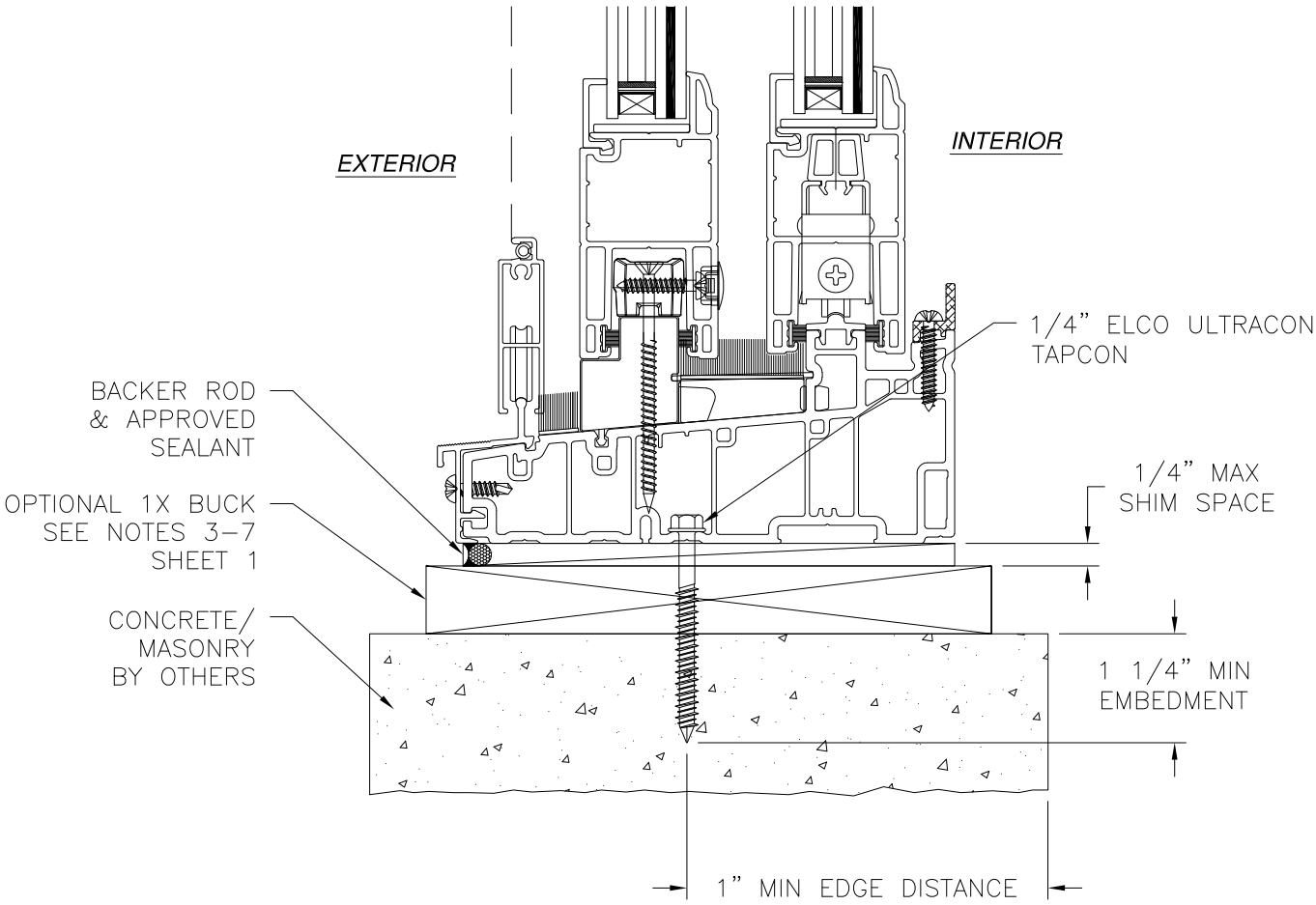
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OPTIONAL SILL INSTALLATIONS

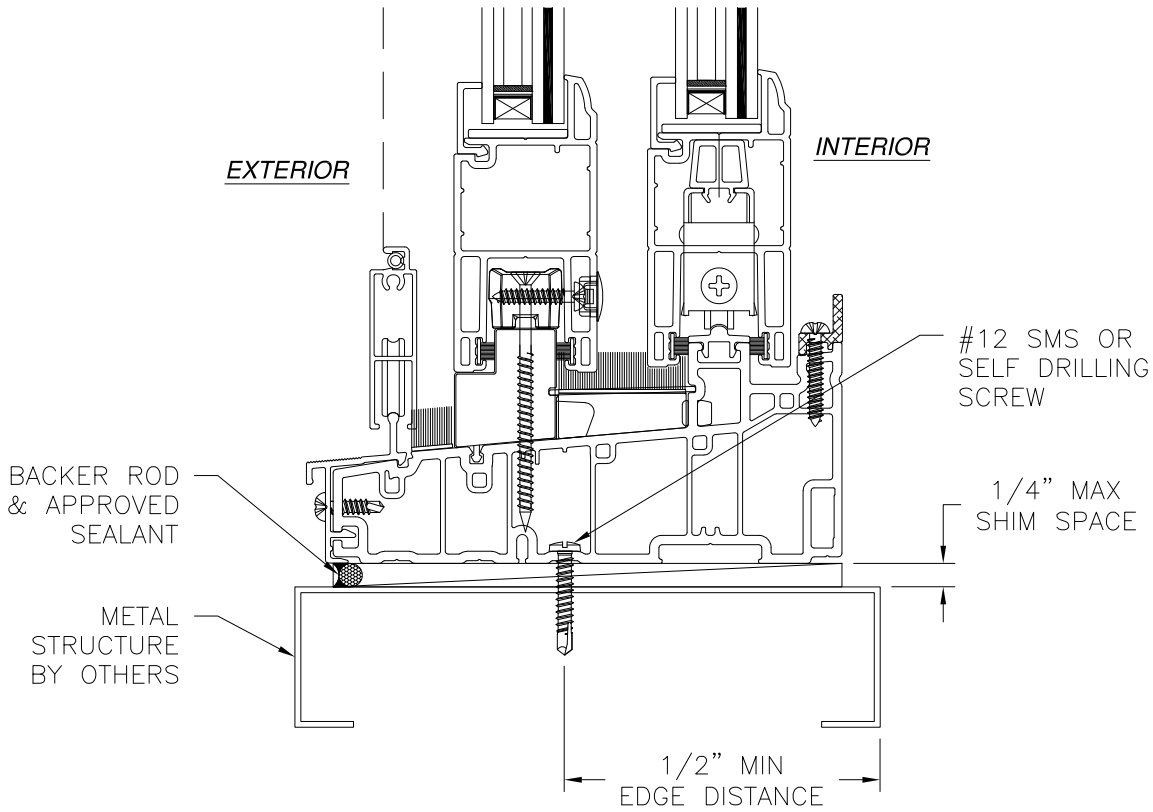
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VERTICAL CROSS SECTION  
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION  
CONCRETE MASONRY INSTALLATION



VERTICAL CROSS SECTION  
METAL STRUCTURE INSTALLATION

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

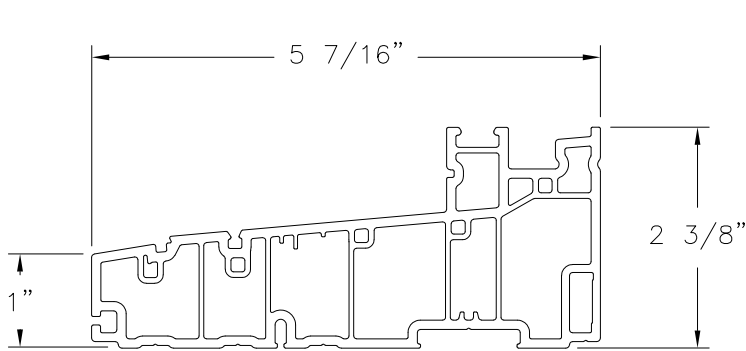
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| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

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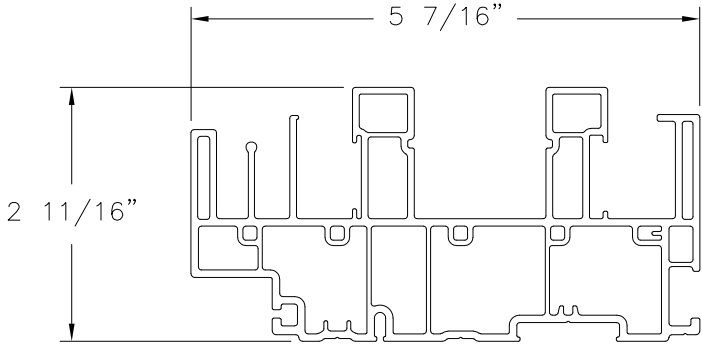


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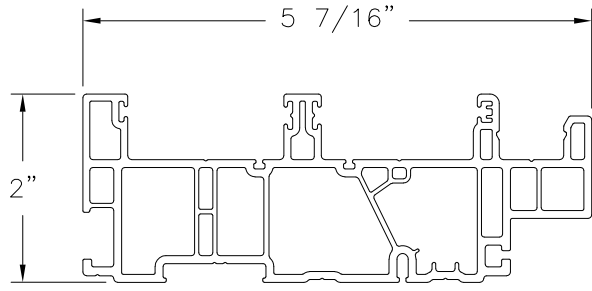
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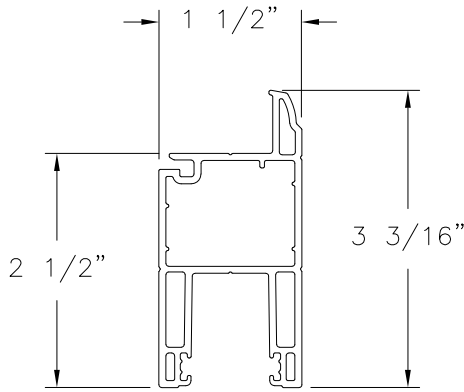
**SILL (7000)**  
EXTRUDED RIGID PVC



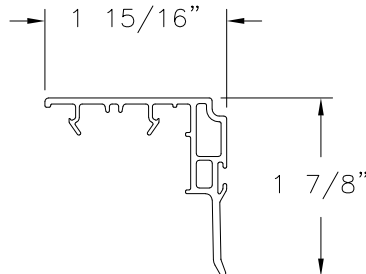
**HEAD (7002)**  
EXTRUDED RIGID PVC



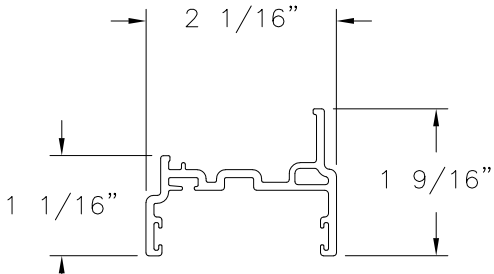
**JAMB (7004)**  
EXTRUDED RIGID PVC



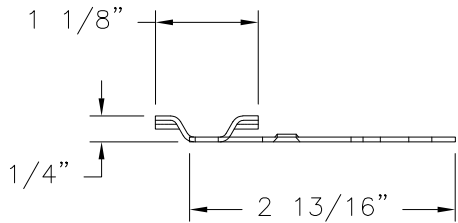
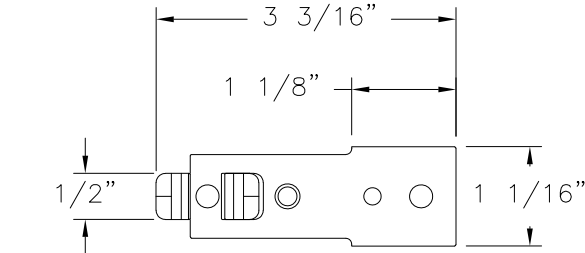
**MAIN RAIL/STILE**  
EXTRUDED RIGID PVC



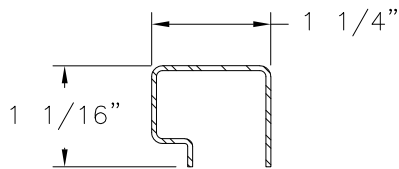
**INTERLOCK (7026)**  
EXTRUDED RIGID PVC



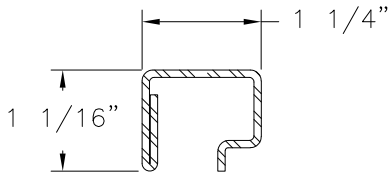
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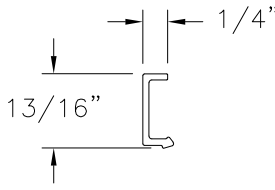
**CLIP**  
GALVANIZED STEEL (.051" THICK)



**STILE REINFORCEMENT (9598)**  
STEEL



**CENTER STILE REINFORCEMENT (9599)**  
STEEL



**GLAZING BEAD**  
EXTRUDED RIGID PVC

|                                                                                                      |                     |              |
|------------------------------------------------------------------------------------------------------|---------------------|--------------|
| MI WINDOWS & DOORS, LLC.<br>650 WEST MARKET STREET<br>GRATZ, PA 17030                                |                     |              |
| SERIES 1615/1617 PVC SLIDING GLASS DOOR<br>NON-IMPACT OXO COMPONENTS                                 |                     |              |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03132 | REV<br>B     |
| SCALE NTS                                                                                            | DATE 06/28/17       | SHEET 8 OF 8 |
| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |              |

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