

| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| A         | REVISED PER NEW CODE | 08/15/2023 | 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” 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. 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 UNIT FRAME 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: ALUMINUM 6063–T5 AND 6063–T6.
  11. UNITS MUST BE GLAZED PER ASTM E1300.
  12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. 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.
14. 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” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. 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.
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:
  - 17.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
  - 17.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
  - 17.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
  - 17.4. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI .125” THICK MINIMUM

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| 2                 | ELEVATION            |
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| 9                 | COMPONENTS           |

BOYD ALUMINUM MANUFACTURING  
3248 EAST DIVISION  
SPRINGFIELD, MO 65801

3000 SERIES SINGLE HUNG WINDOW  
NON-IMPACT  
NOTES

DRAWN:  
A.R.

DWG NO.  
08-03602

REV  
A

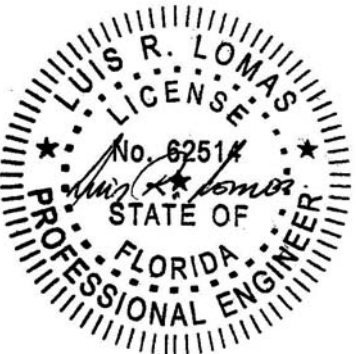
SCALE NTS

DATE 08/24/2020

SHEET 1 OF 9

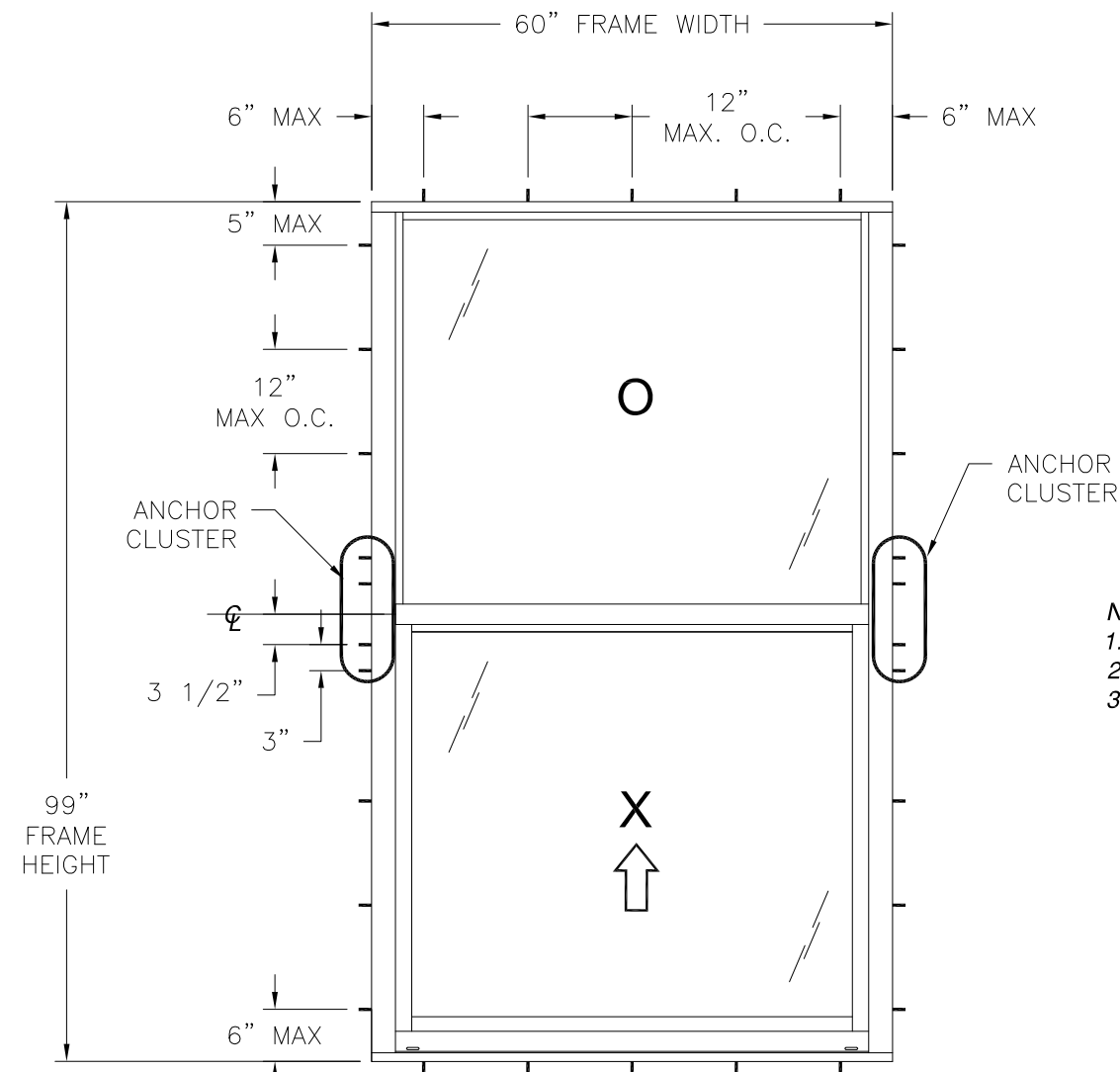
L. ROBERTO LOMAS P.E.  
208 7th Ave, INDIALANTIC, FL 32903  
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/15/2023



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

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- NOTES:
1. SASH SIZE: 55 1/2" X 49"
  2. OPERABLE D.L.O.: 51 7/8" X 45 7/16"
  3. FIXED D.L.O.: 53 7/8" X 45 7/16"

| DESIGN PRESSURE RATING | IMPACT RATING |
|------------------------|---------------|
| ±80.0PSF               | NONE          |

60" X 99" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS  
FRAME AREA DOES NOT EXCEED 41.25 FT<sup>2</sup>

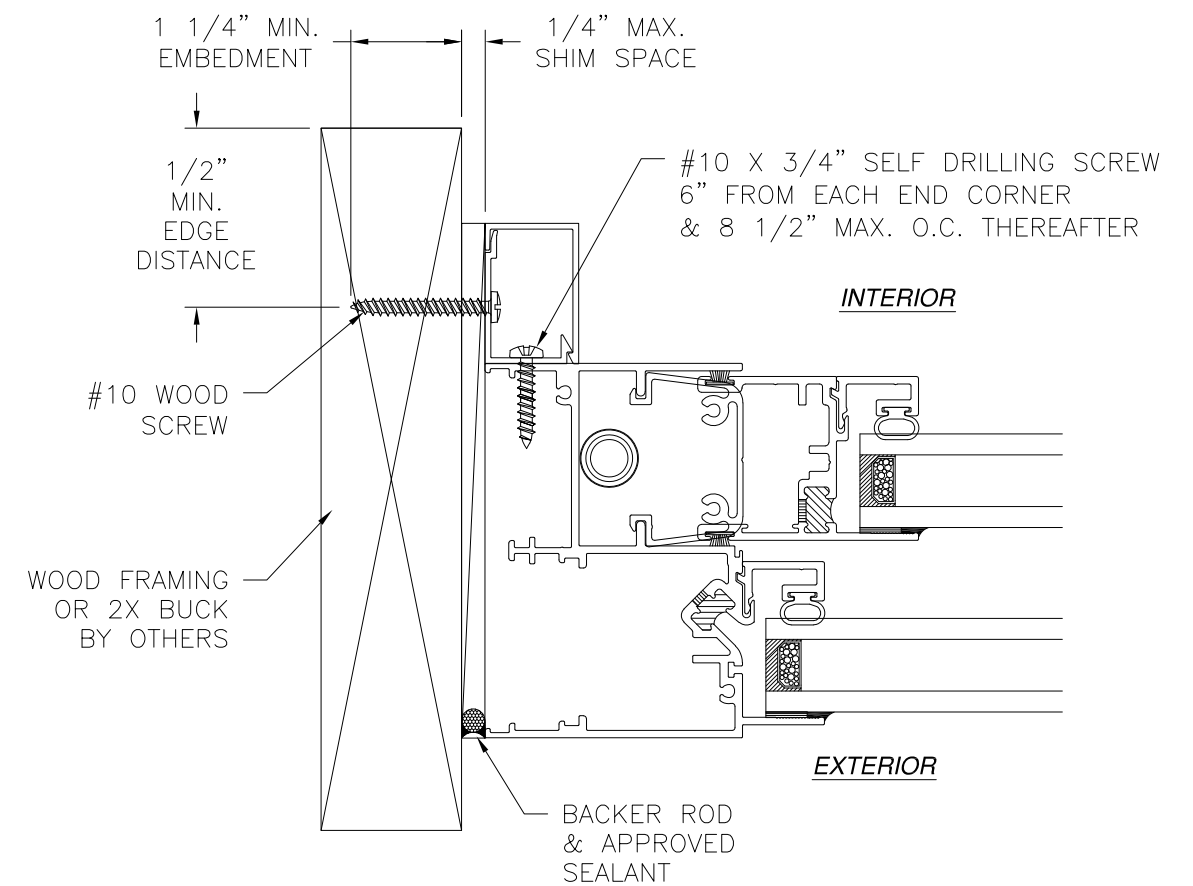
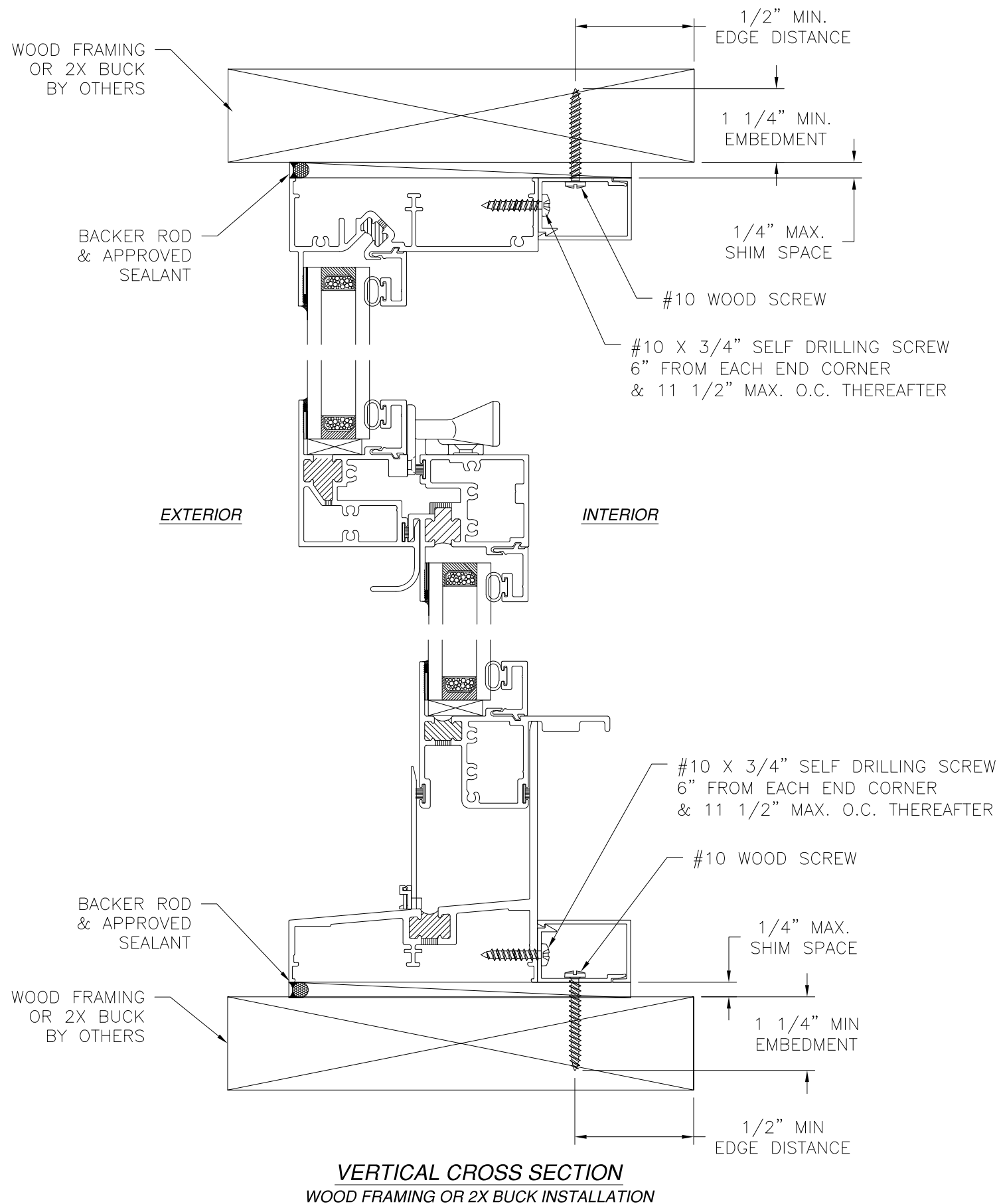
| HARDWARE SCHEDULE |                                                             |
|-------------------|-------------------------------------------------------------|
| A.                | (2) SWEEP LOCKS WITH KEEPERS AT MEETING RAIL, 12" FROM JAMB |
| B.                | (2) SASH CAP AT LOCK/TOP RAIL                               |
| C.                | (4) BALANCES AT JAMBS                                       |
| D.                | (2) BALANCE SHOE AT JAMBS                                   |

|                                                                                                   |                     |              |
|---------------------------------------------------------------------------------------------------|---------------------|--------------|
| BOYD ALUMINUM MANUFACTURING                                                                       |                     |              |
| 3248 EAST DIVISION<br>SPRINGFIELD, MO 65801                                                       |                     |              |
| 3000 SERIES SINGLE HUNG WINDOW<br>NON-IMPACT<br>ELEVATION                                         |                     |              |
| DRAWN:<br>A.R.                                                                                    | DWG NO.<br>08-03602 | REV<br>A     |
| SCALE NTS                                                                                         | DATE 08/24/2020     | SHEET 2 OF 9 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |              |

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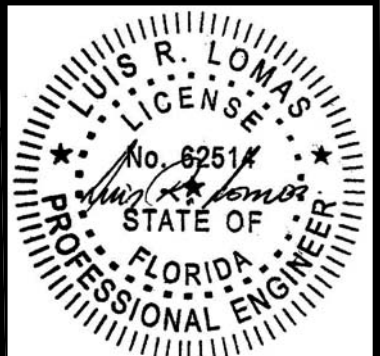


**NOTES:**

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

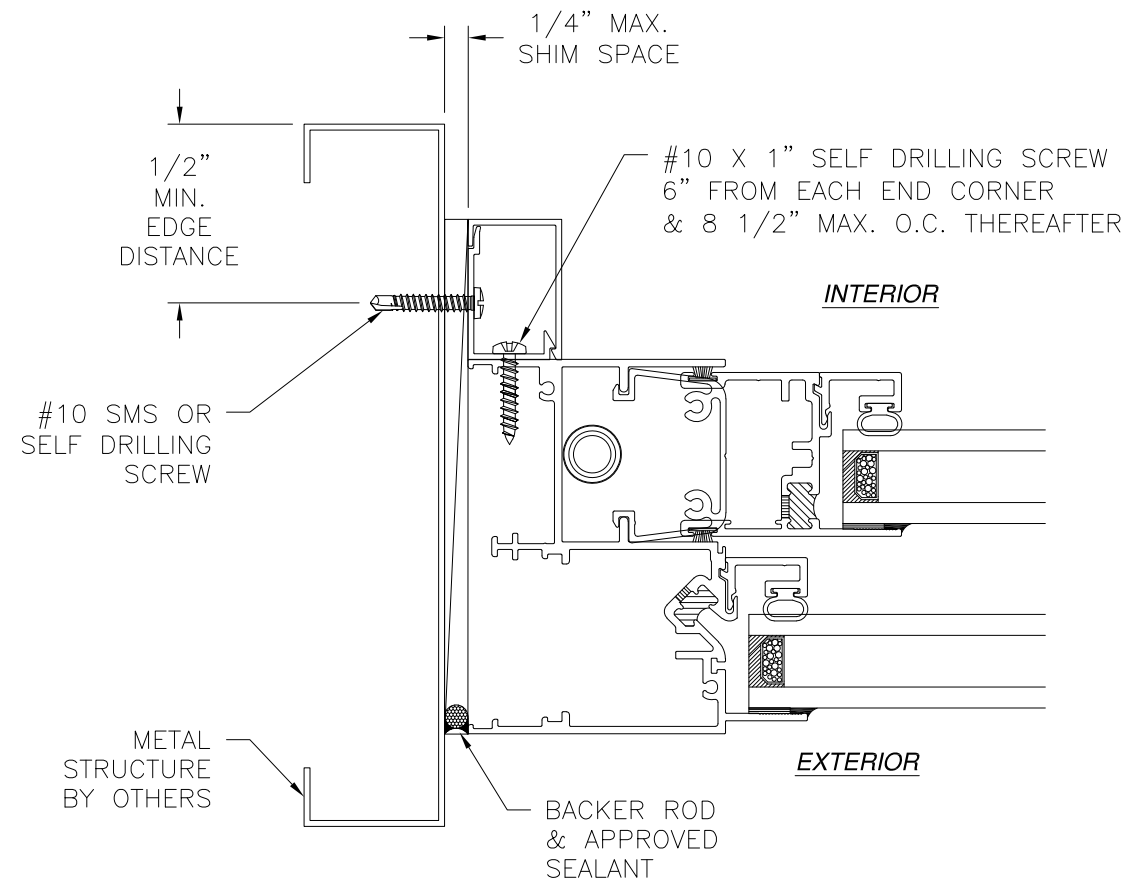
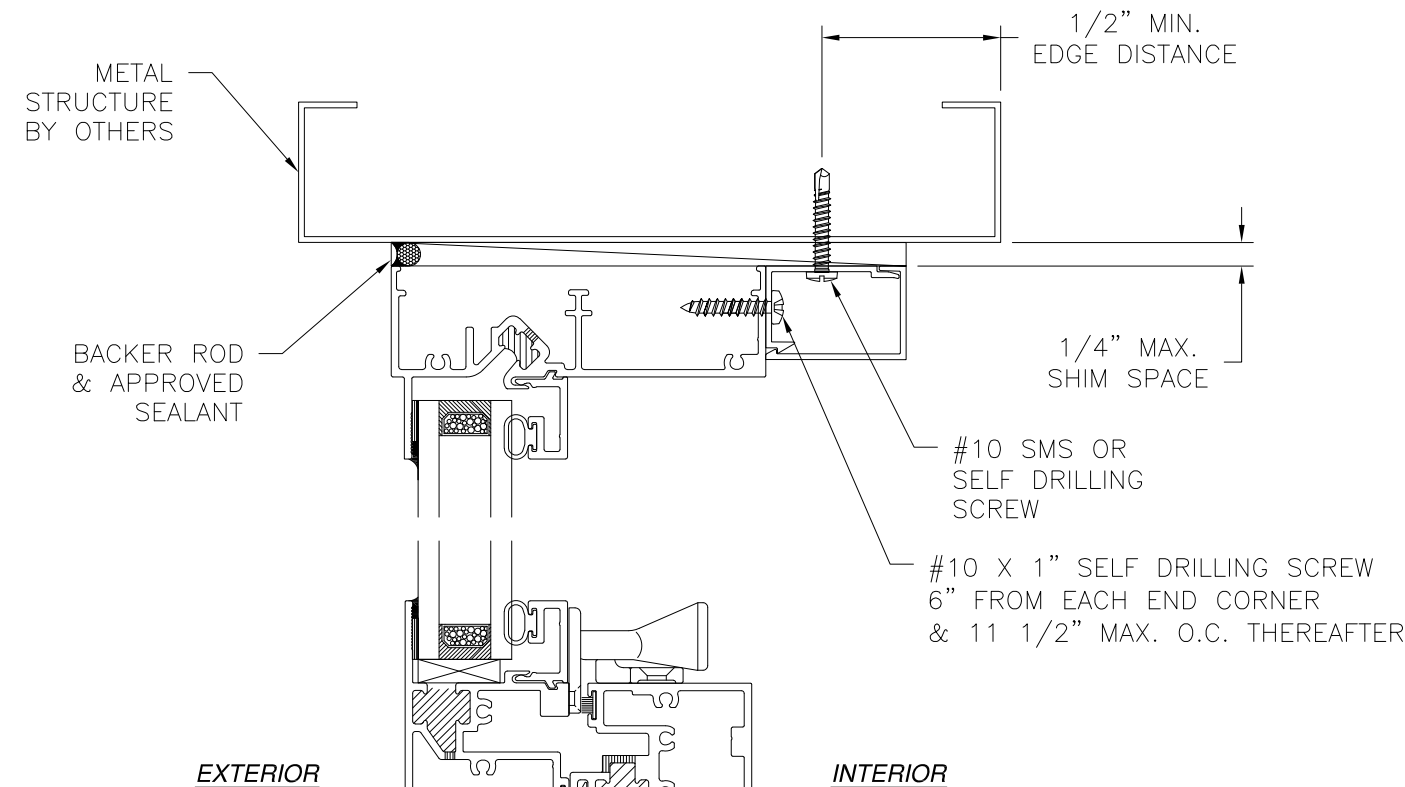
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| BOYD ALUMINUM MANUFACTURING                                                                       |                     |                 |
| 3248 EAST DIVISION<br>SPRINGFIELD, MO 65801                                                       |                     |                 |
| 3000 SERIES SINGLE HUNG WINDOW<br>NON-IMPACT<br>INSTALLATION DETAILS                              |                     |                 |
| DRAWN:<br>A.R.                                                                                    | DWG NO.<br>08-03602 | REV<br>A        |
| SCALE<br>NTS                                                                                      | DATE<br>08/24/2020  | SHEET<br>3 OF 9 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

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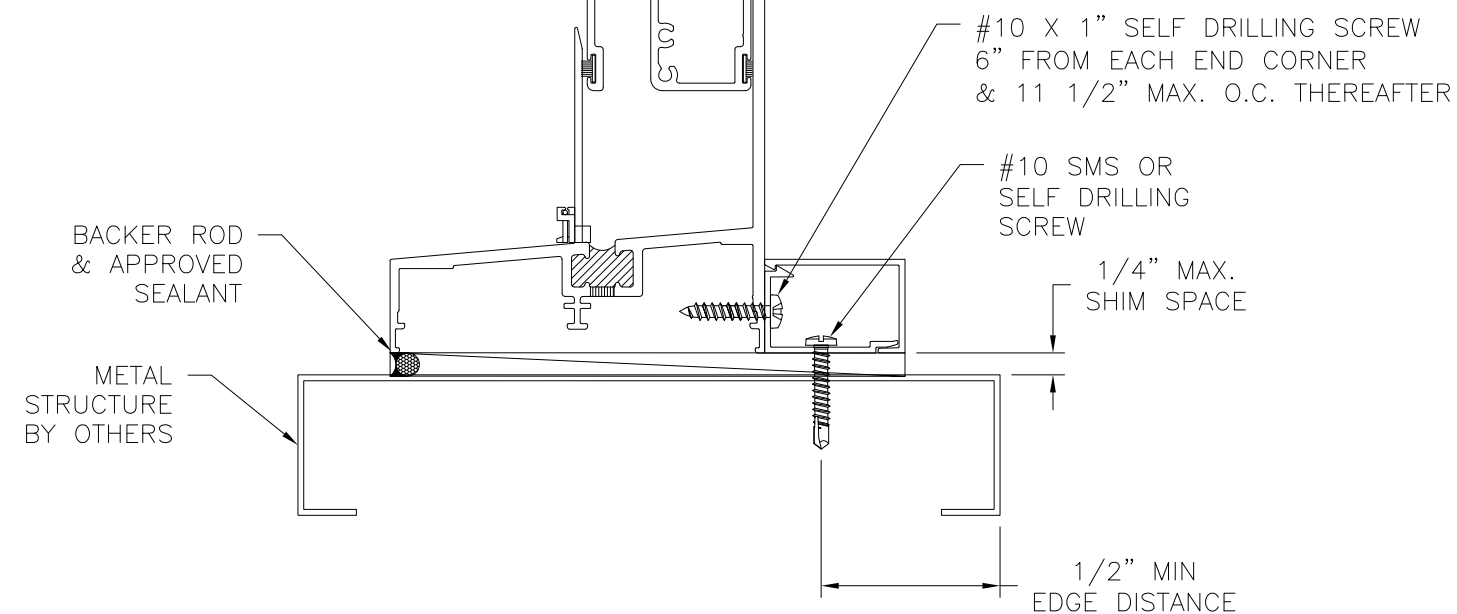


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**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE INSTALLATION



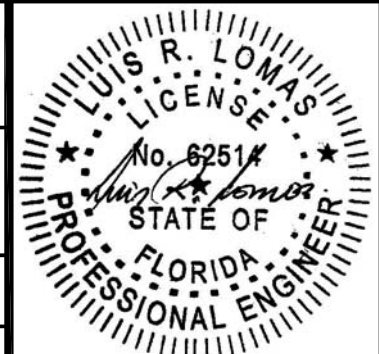
**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION

**NOTES:**

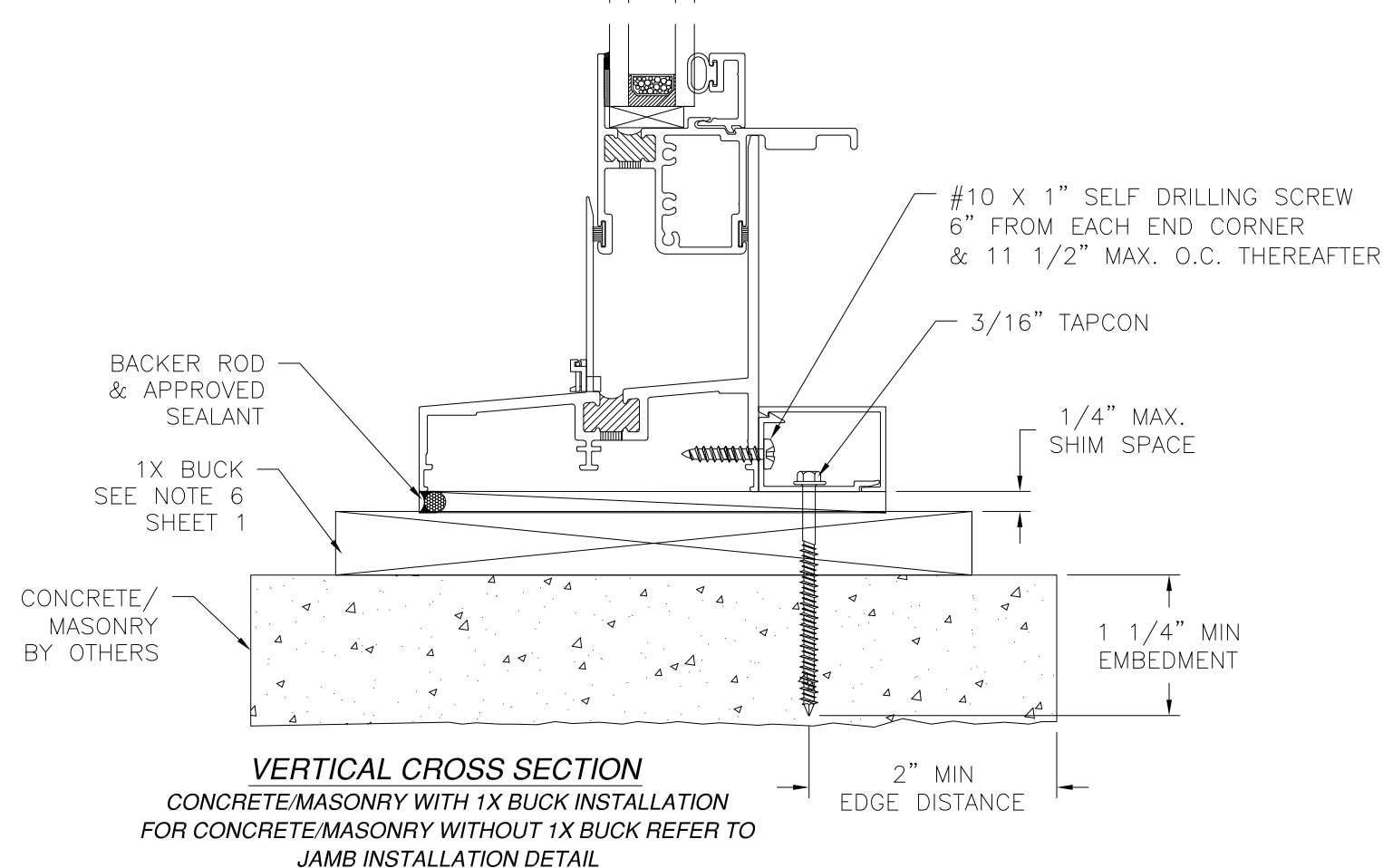
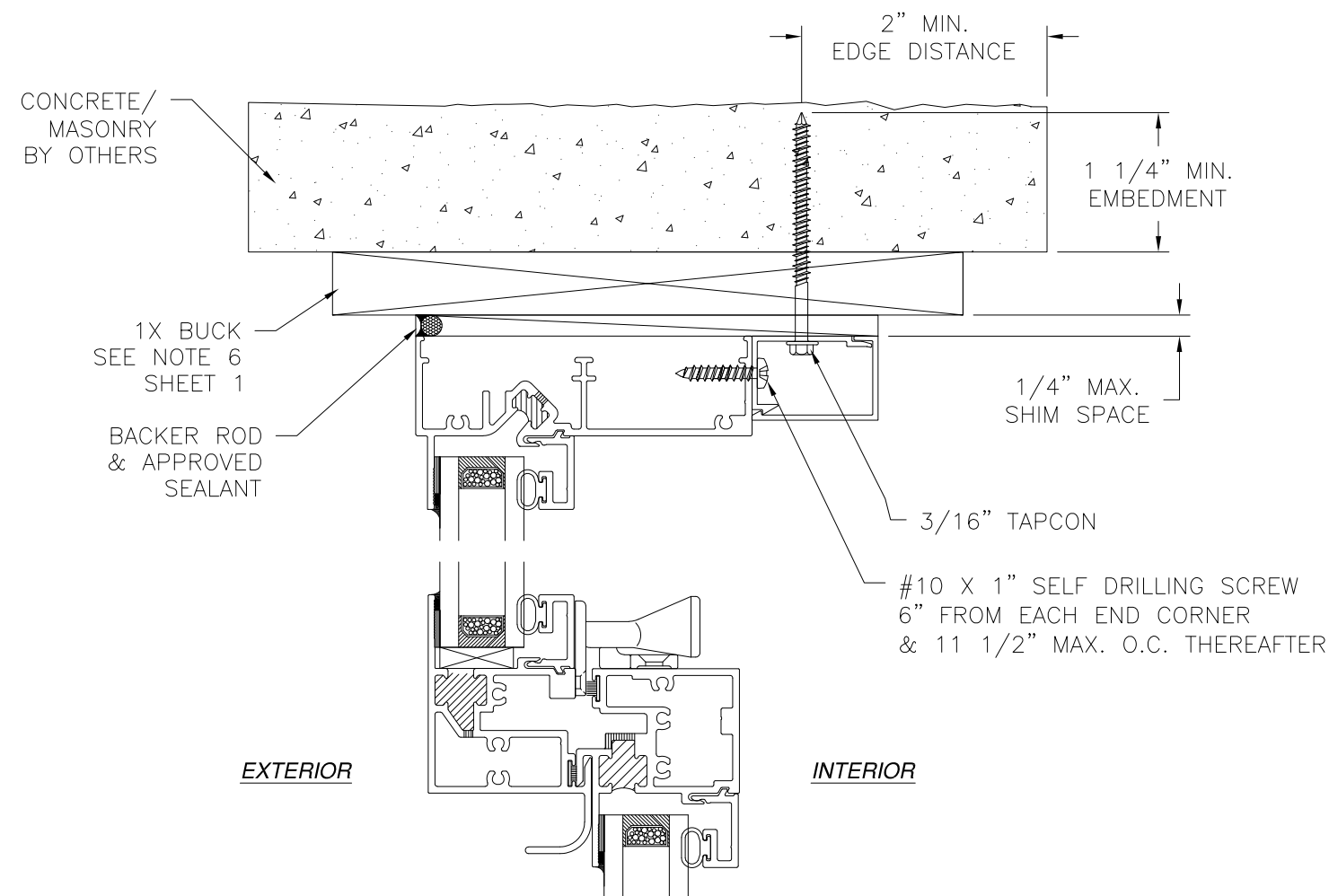
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

|                                                                                                   |                     |                 |
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| BOYD ALUMINUM MANUFACTURING                                                                       |                     |                 |
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| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

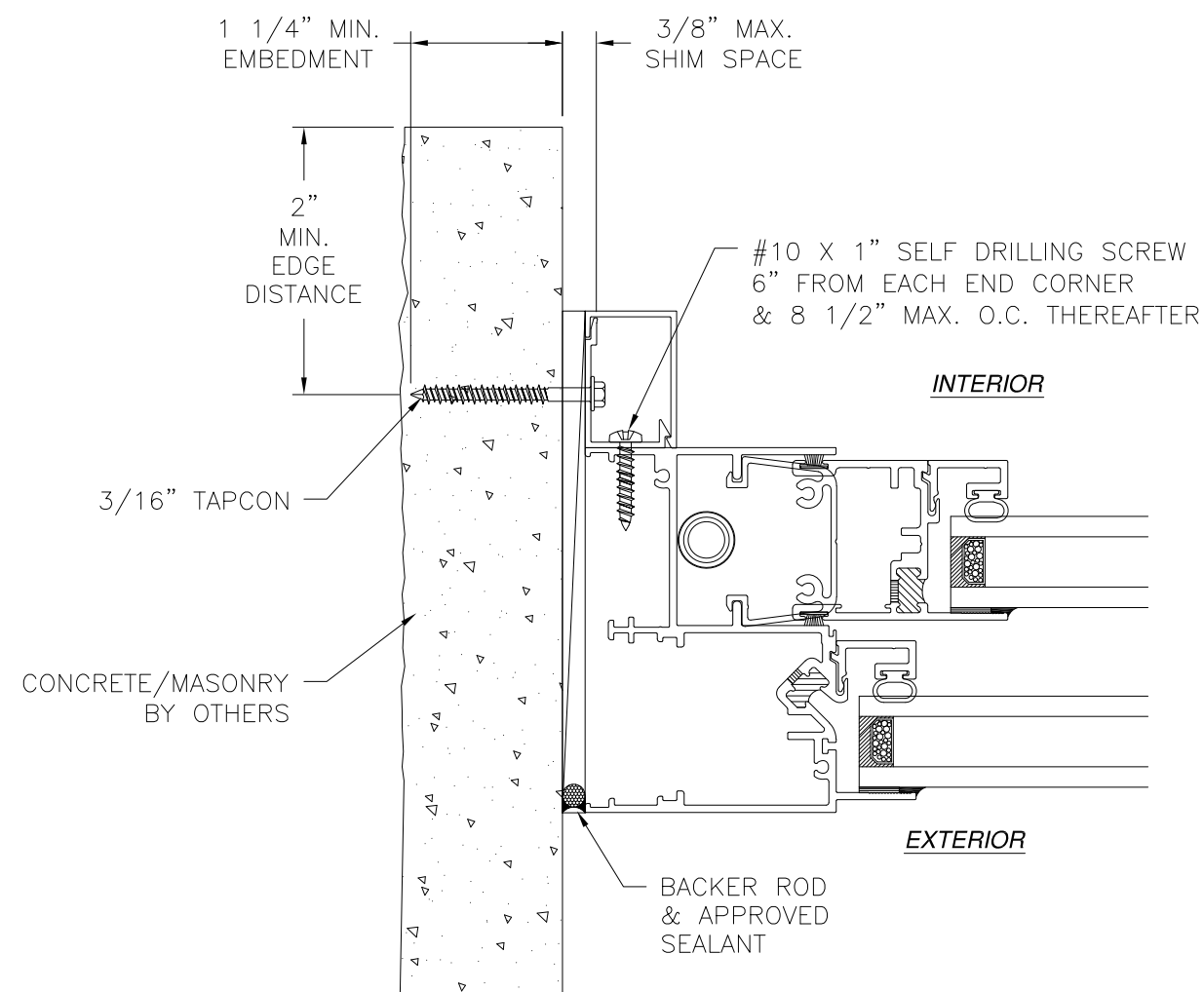
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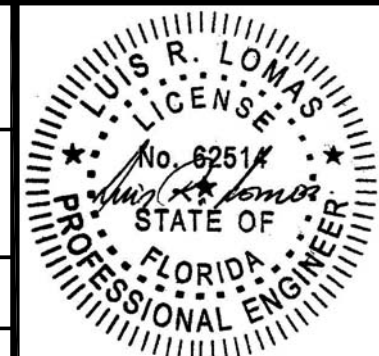


**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION  
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO  
HEAD AND SILL INSTALLATION DETAILS

- NOTES:**
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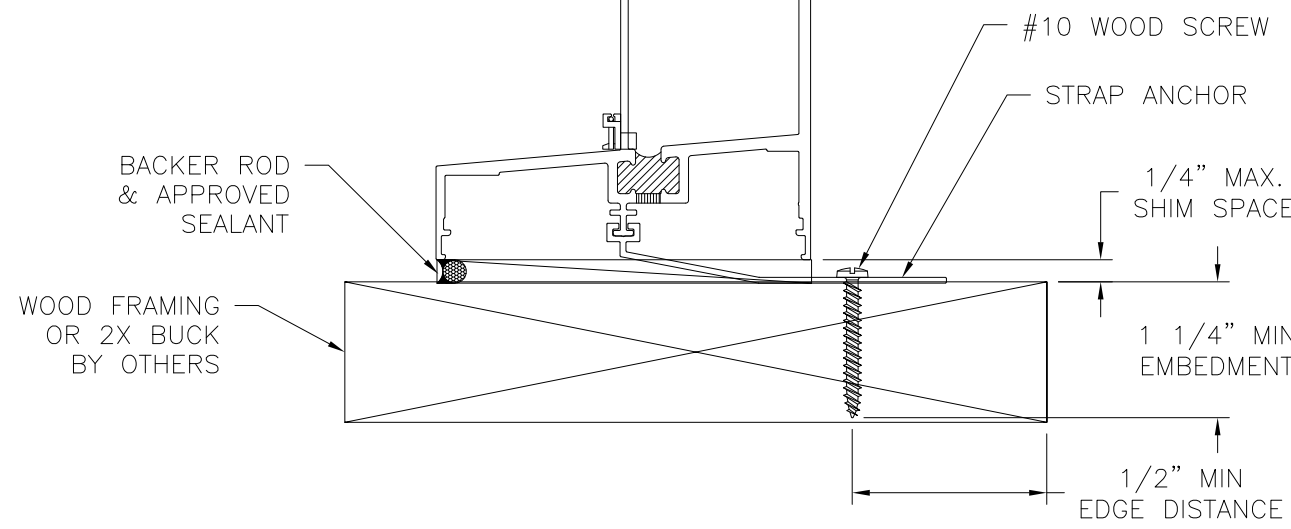
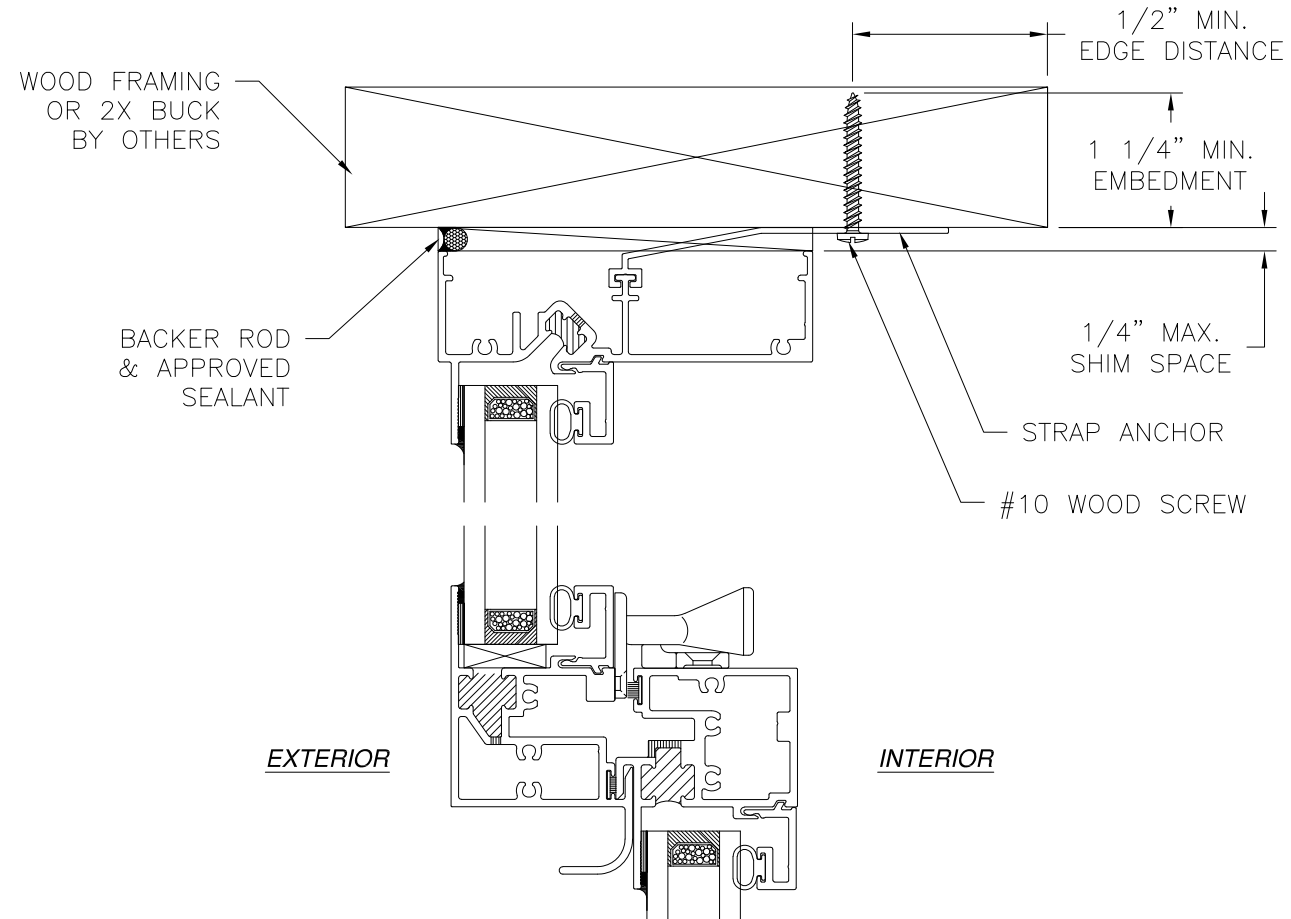
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| BOYD ALUMINUM MANUFACTURING                                                                       |                     |                 |
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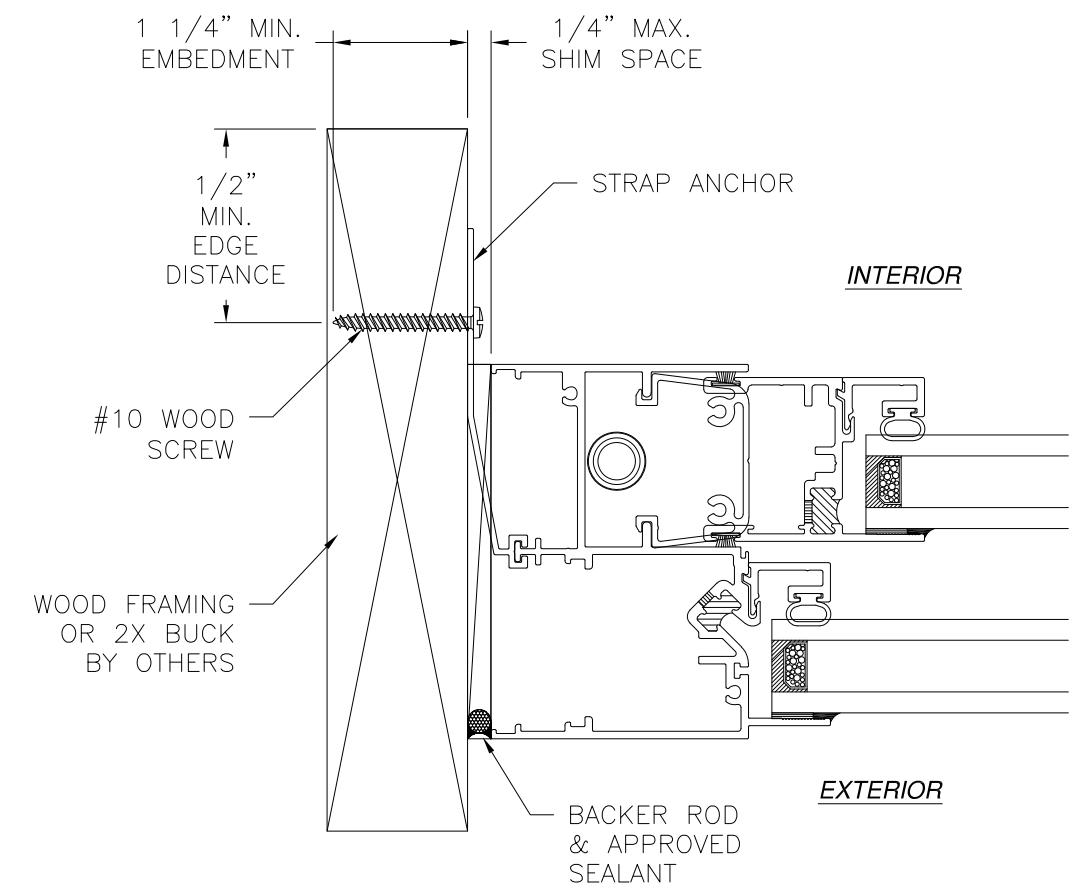


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**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION



**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:**
1. *INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.*
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BOYD ALUMINUM MANUFACTURING

3248 EAST DIVISION  
SPRINGFIELD, MO 65801

3000 SERIES SINGLE HUNG WINDOW  
NON-IMPACT  
INSTALLATION DETAILS W/STRAP ANCHOR

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SHEET  
6 OF 9

L. ROBERTO LOMAS P.E.

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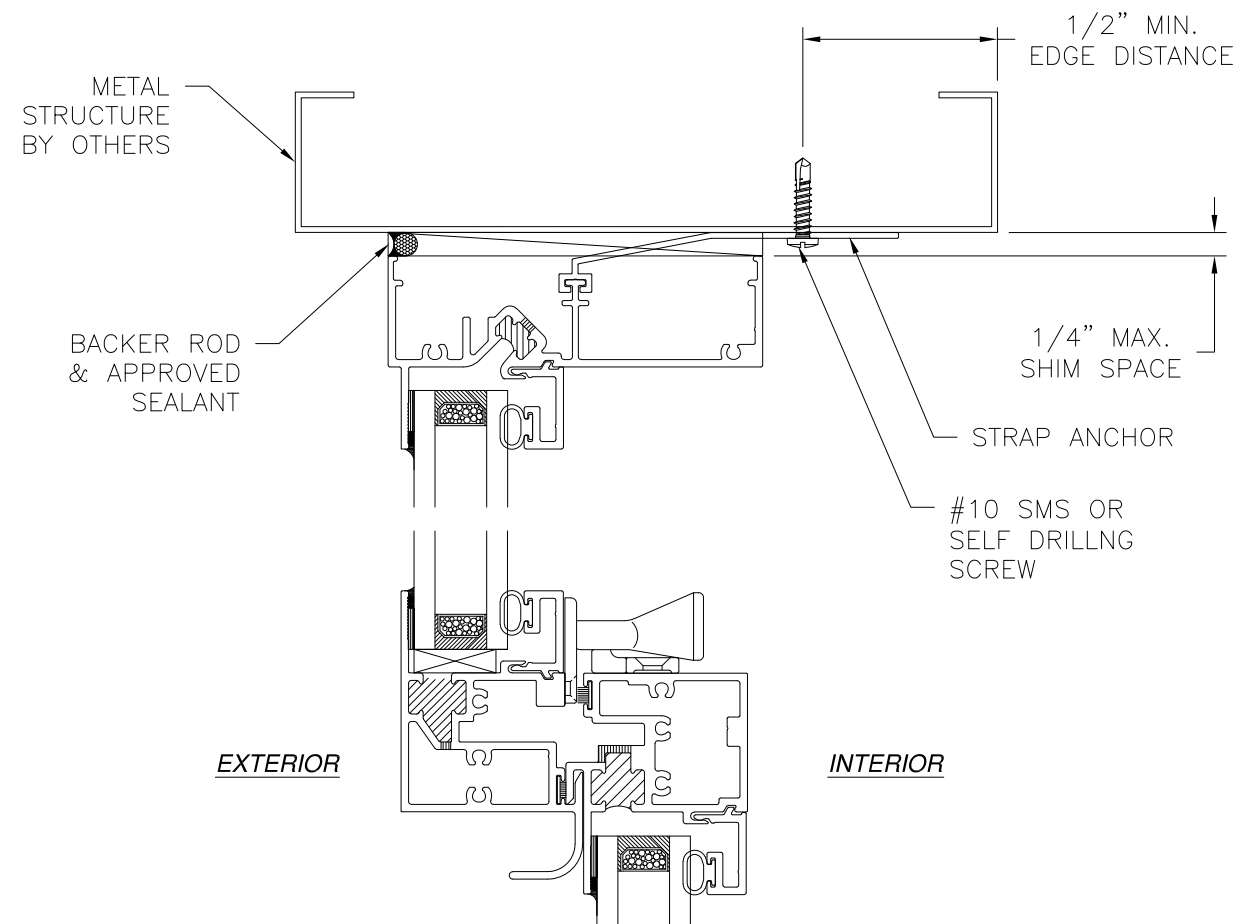
434-688-0609    rllomas@lrlomaspe.com

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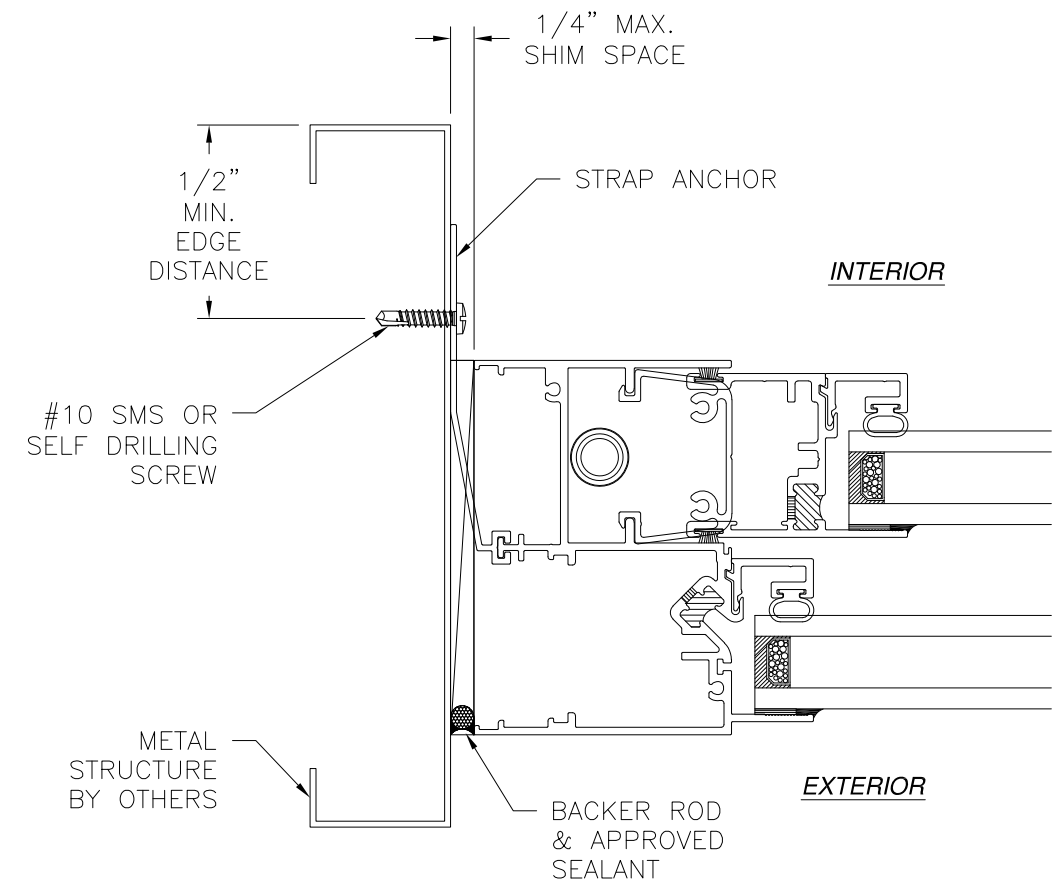
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**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION



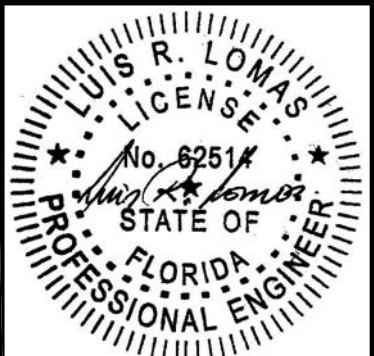
**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE INSTALLATION

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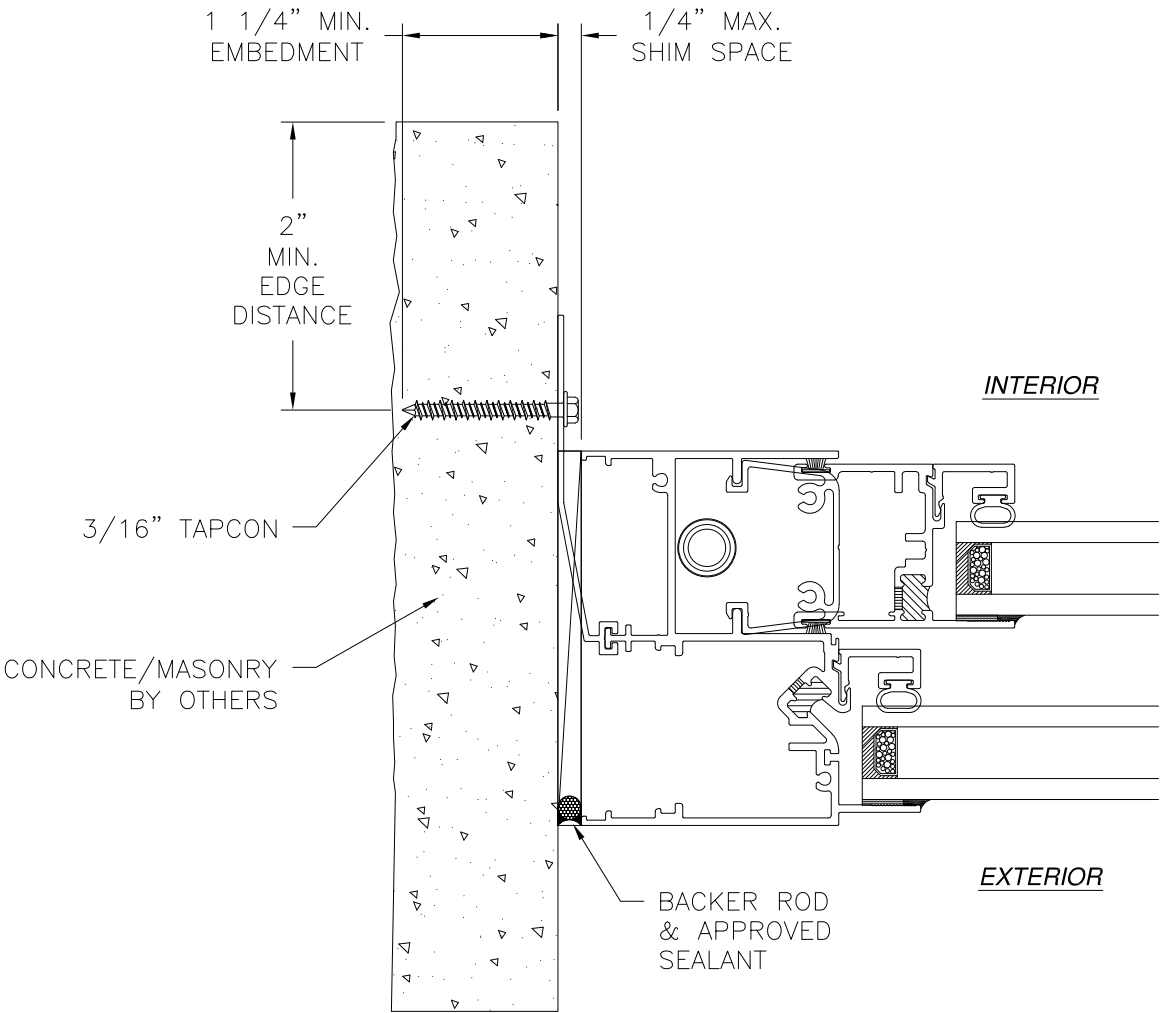
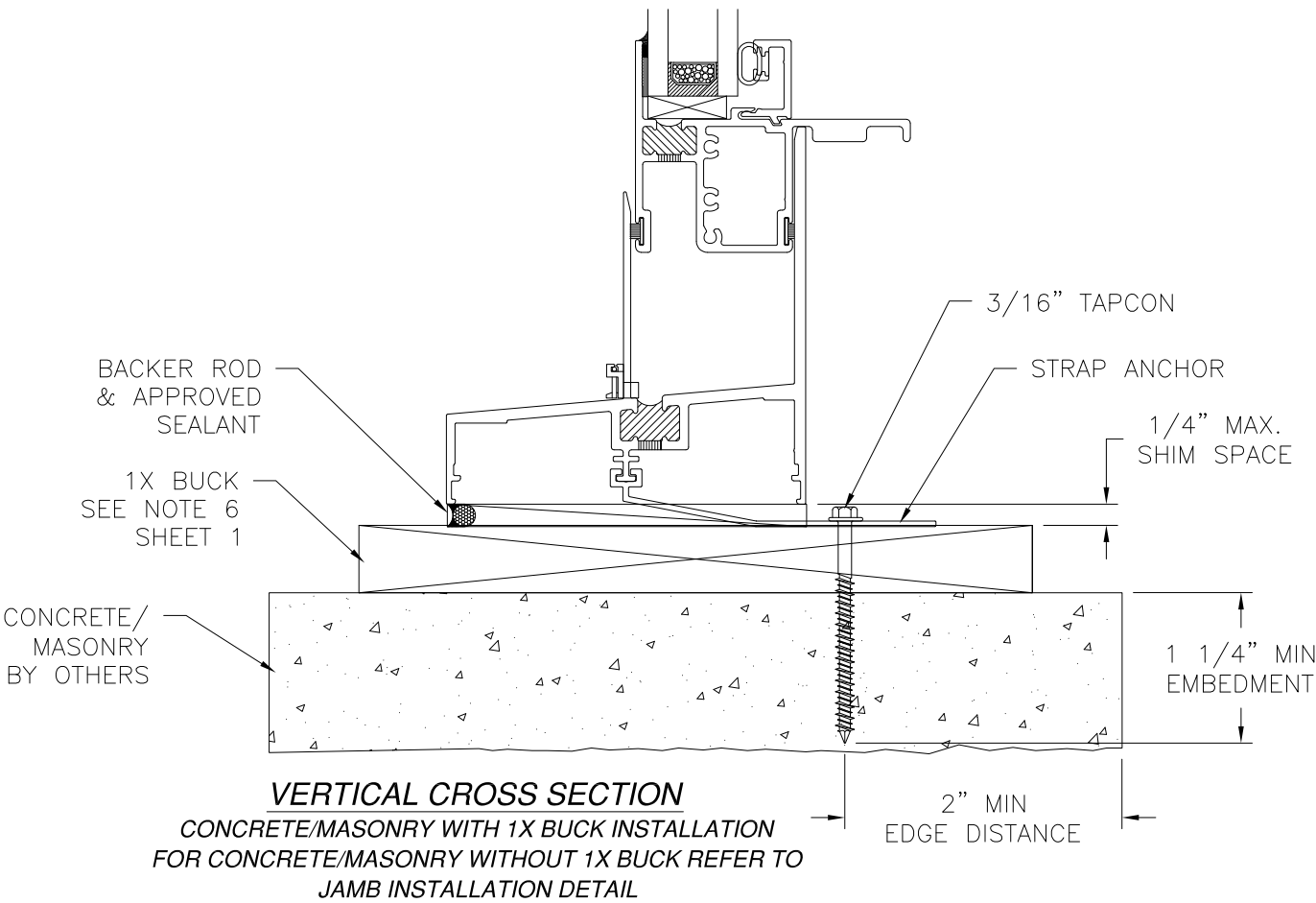
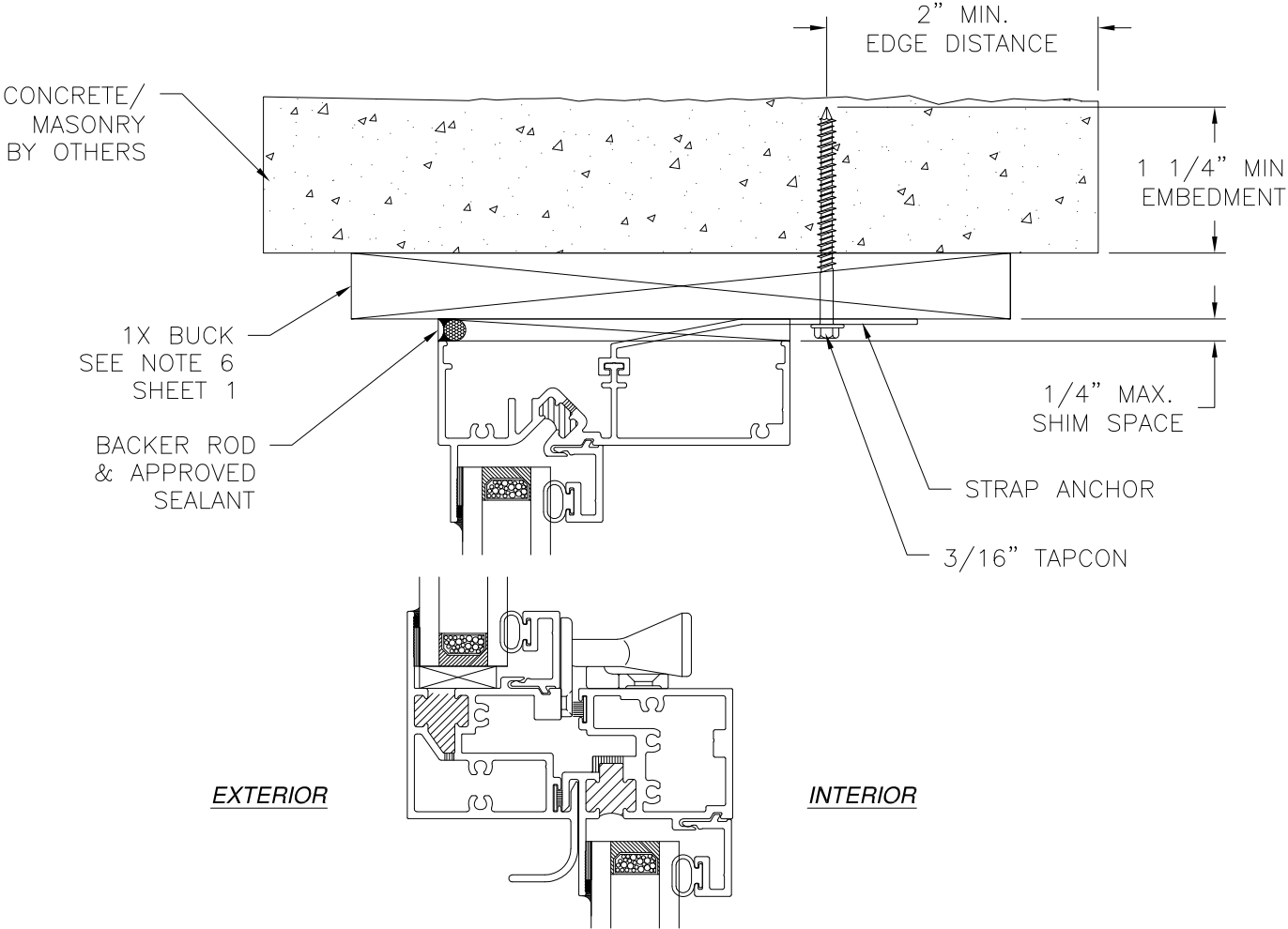
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| 3000 SERIES SINGLE HUNG WINDOW<br>NON-IMPACT<br>INSTALLATION DETAILS W/STRAP ANCHOR               |                     |                 |
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| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |



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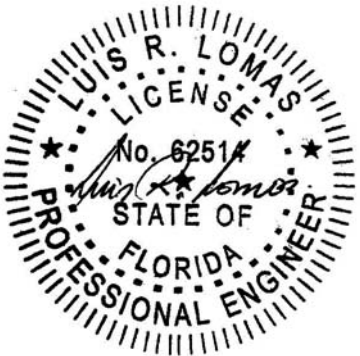
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**BOYD ALUMINUM MANUFACTURING**  
3248 EAST DIVISION  
SPRINGFIELD, MO 65801

3000 SERIES SINGLE HUNG WINDOW  
NON-IMPACT  
INSTALLATION DETAILS W/STRAP ANCHOR

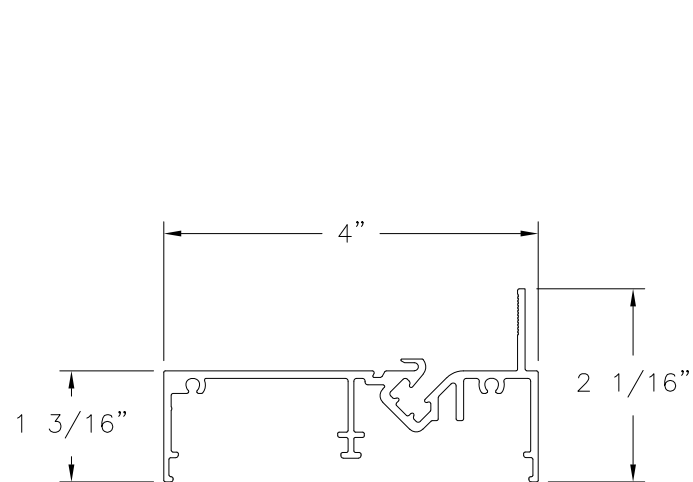
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434-688-0609 rllomas@lrlomaspe.com

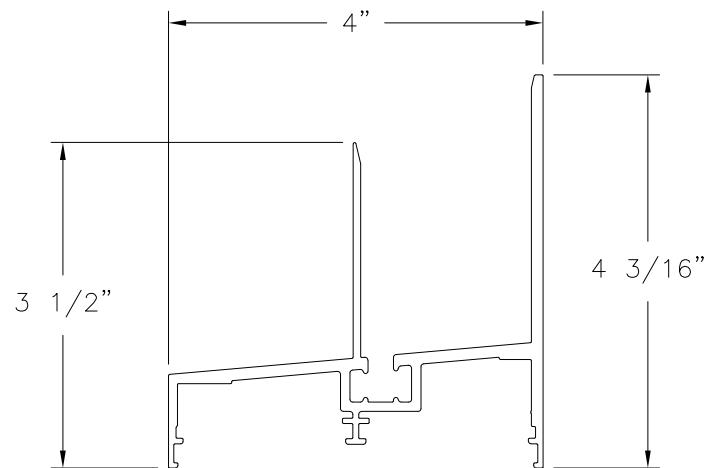


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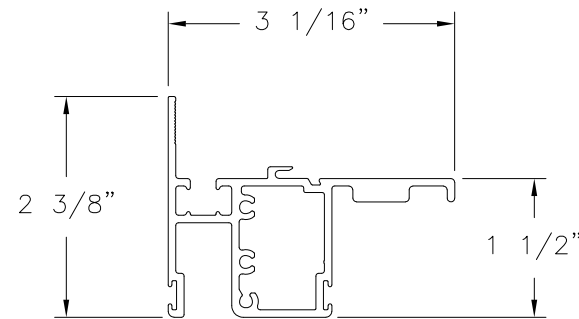
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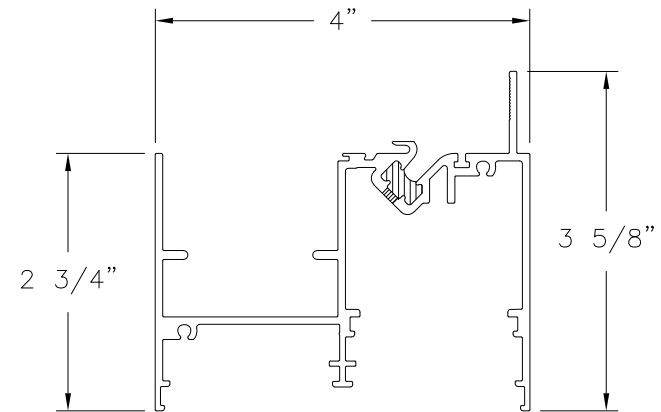
**HEAD (BAM-1001)**  
ALUMINUM 6063-T6



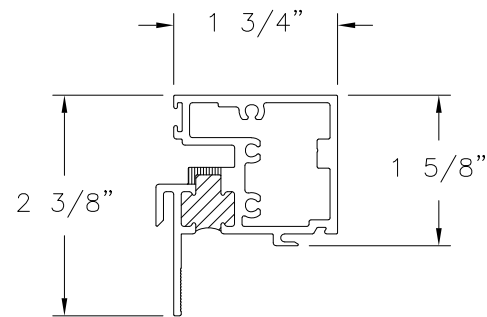
**SILL (BAM-1002)**  
ALUMINUM 6063-T6



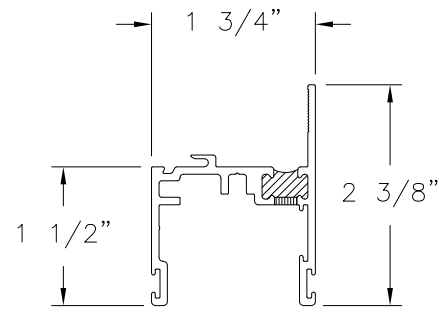
**BOTTOM RAIL (BAM-1008)**  
ALUMINUM 6063-T6



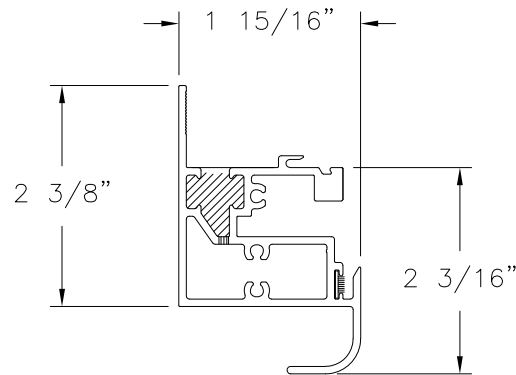
**JAMB (BAM-1003)**  
ALUMINUM 6063-T6



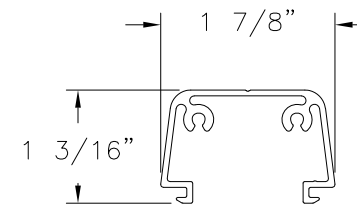
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ALUMINUM 6063-T6



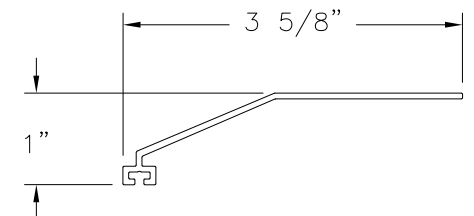
**STILE (BAM-1009)**  
ALUMINUM 6063-T6



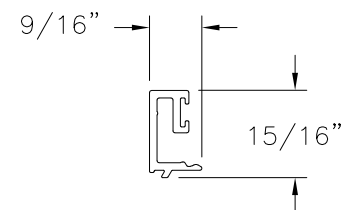
**KEEPER RAIL (BAM-1006)**  
ALUMINUM 6063-T6



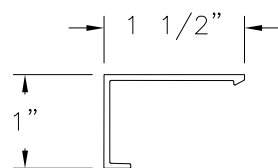
**SASH STOP (BAM-1018)**  
ALUMINUM 6063-T6



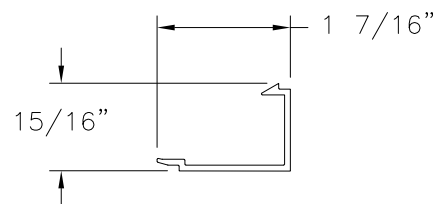
**STRAP ANCHOR (BAM-857)**  
ALUMINUM 6063-T5



**GLAZING BEAD (BAM-1020)**  
ALUMINUM 6063-T6



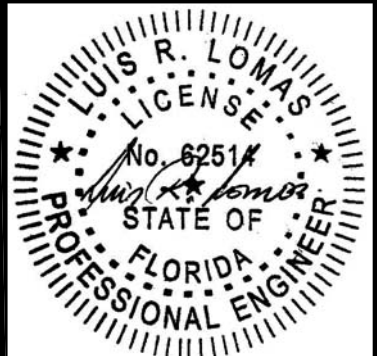
**TRIM COVER (WLB-2004)**  
ALUMINUM 6063-T5



**TRIM BASE (WLB-2005)**  
ALUMINUM 6063-T5

SIGNED: 08/15/2023

|                                                                                                   |                     |                 |
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| DRAWN:<br>A.R.                                                                                    | DWG NO.<br>08-03602 | REV<br>A        |
| SCALE<br>NTS                                                                                      | DATE<br>08/24/2020  | SHEET<br>9 OF 9 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |



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