

| REVISIONS |                           |          |          |
|-----------|---------------------------|----------|----------|
| REV       | DESCRIPTION               | DATE     | APPROVED |
| J         | REVISED HARDWARE SCHEDULE | 09/10/26 | R.L.     |

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE 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 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. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
5. 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.
6. FRAME MATERIAL: WOOD WITH G=.46 MINIMUM SPECIFIC GRAVITY, OR COMPOSITE, OR FRAMESAVER, OR FUSION FRAME.  
DOOR SKIN MATERIAL: STEEL .033" THICK (MINIMUM)  
SIDELITE SKIN MATERIAL: STEEL .022" THICK (MINIMUM)
7. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 10 FOR GLASS DETAILS.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
9. 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".

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 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" 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:

14.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42

14.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.

14.3. MASONRY – GROUT FILLED STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

14.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM
15. DOOR CONSTRUCTION MAYBE CONTINUOUS HEAD FRAME AND CONTINUOUS THRESHOLD OR BOX CONSTRUCTION.

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PROVIA, LLC.  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL INSWING GLAZED SINGLE DOOR  
W/SIDELITES – IMPACT  
NOTES

DRAWN:  
A.P.

DWG NO.  
08-01937

REV  
J

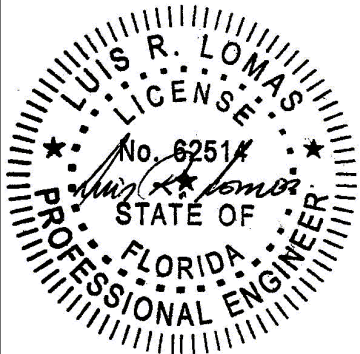
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DATE 03/20/13

SHEET 1 OF 14

L. ROBERTO LOMAS P.E.  
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SIGNED: 09/10/2026



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

25 3/8"

FRAME

WIDTH

37 9/16"

FRAME

WIDTH

25 3/8"

FRAME

WIDTH

97 19/32"

FRAME

HEIGHT

FIXED

ACTIVE

FIXED

3/8" MULLION

MINIMUM

SEE NOTES

1 AND 2

THIS SHEET

3/8" MULLION

MINIMUM

SEE NOTES

1 AND 2

THIS SHEET

SINGLE DOOR W/ STD SIDELITES

EXTERIOR VIEW

21 5/8"

FRAME

WIDTH

37 9/16"

FRAME

WIDTH

21 5/8"

FRAME

WIDTH

97 19/32"

FRAME

HEIGHT

FIXED

ACTIVE

FIXED

3/8" MULLION

MINIMUM

SEE NOTES 1 AND 2

THIS SHEET

3/8" MULLION

MINIMUM

SEE NOTES 1 AND 2

THIS SHEET

SINGLE DOOR W/ DIRECT SET SIDELITES

EXTERIOR VIEW

ACTIVE

FIXED

SINGLE DOOR

W/ STD SIDELITE

EXTERIOR VIEW

FIXED

ACTIVE

SINGLE DOOR

W/ STD SIDELITE

EXTERIOR VIEW

FIXED

ACTIVE

SINGLE DOOR

W/ DIRECT SET SIDELITE

EXTERIOR VIEW

ACTIVE

FIXED

SINGLE DOOR

W/ DIRECT SET SIDELITE

EXTERIOR VIEW

PROVIA, LLC.

2150 STATE ROUTE 39 WEST

SUGARCREEK, OH 44681

STEEL INSWING GLAZED SINGLE DOOR

W/SIDELITES – IMPACT

ELEVATION AND APPROVED CONFIGURATIONS

DRAWN:

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LUIS R. LOMAS

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PROFESSIONAL ENGINEER

No. 62514

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FL No.: 62514

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|                              |                      |
|------------------------------|----------------------|
| DESIGN PRESSURE RATING       | IMPACT RATING        |
| ±55.0PSF                     | LARGE MISSILE IMPACT |
| MISSILE LEVEL D, WIND ZONE 3 |                      |
| WITH PANOLOCK MULTI-POINT    |                      |
| DESIGN PRESSURE RATING       | IMPACT RATING        |
| ±50.0PSF                     | LARGE MISSILE IMPACT |
| MISSILE LEVEL D, WIND ZONE 3 |                      |

NOTES:

1. MAXIMUM VERTICAL MULLION BUILD UP 7"

2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED.

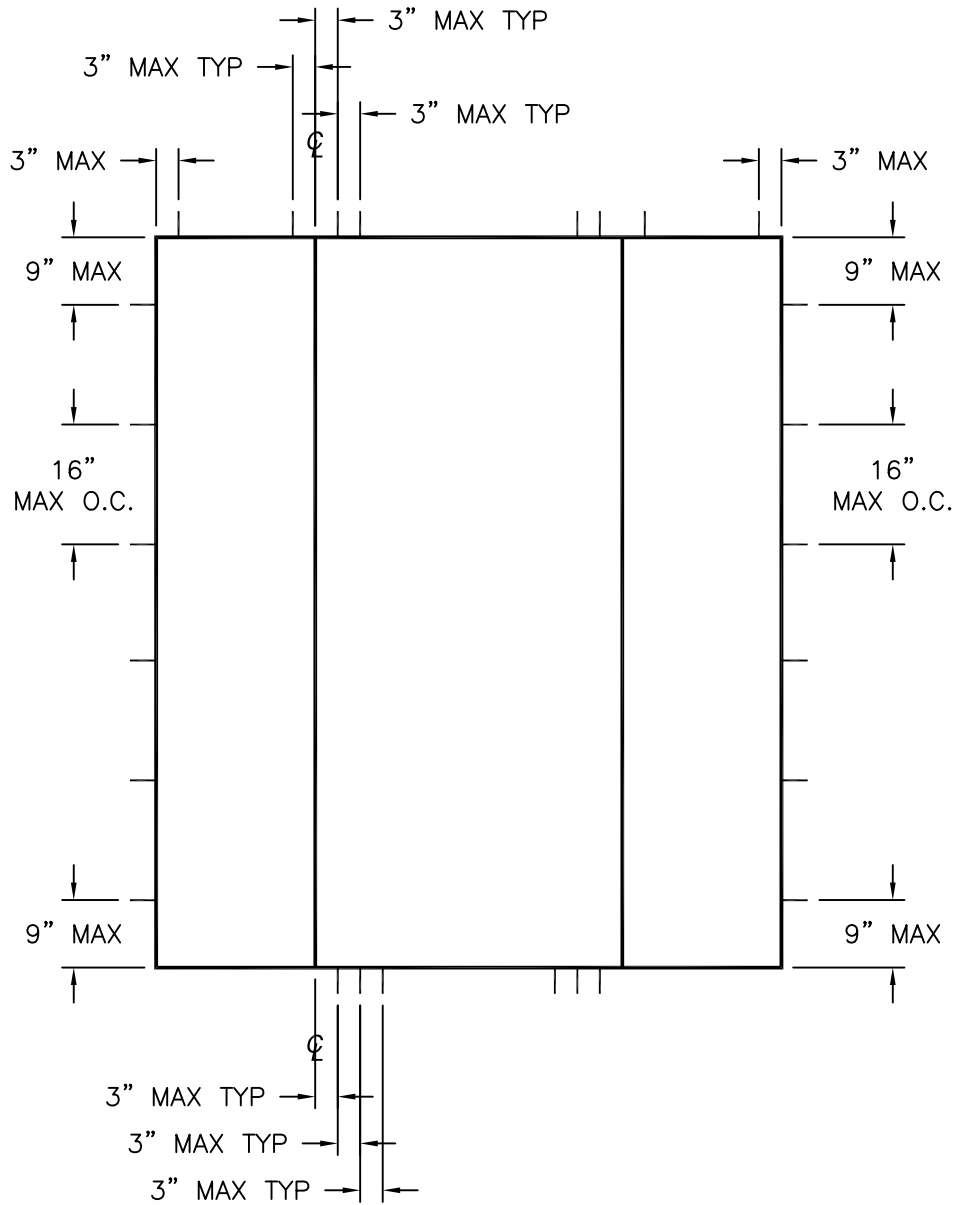
3. DOOR PANEL SIZE: 35 3/4" X 94 15/16"

4. SIDELITE PANEL SIZE: 23 7/8" X 95 1/8"

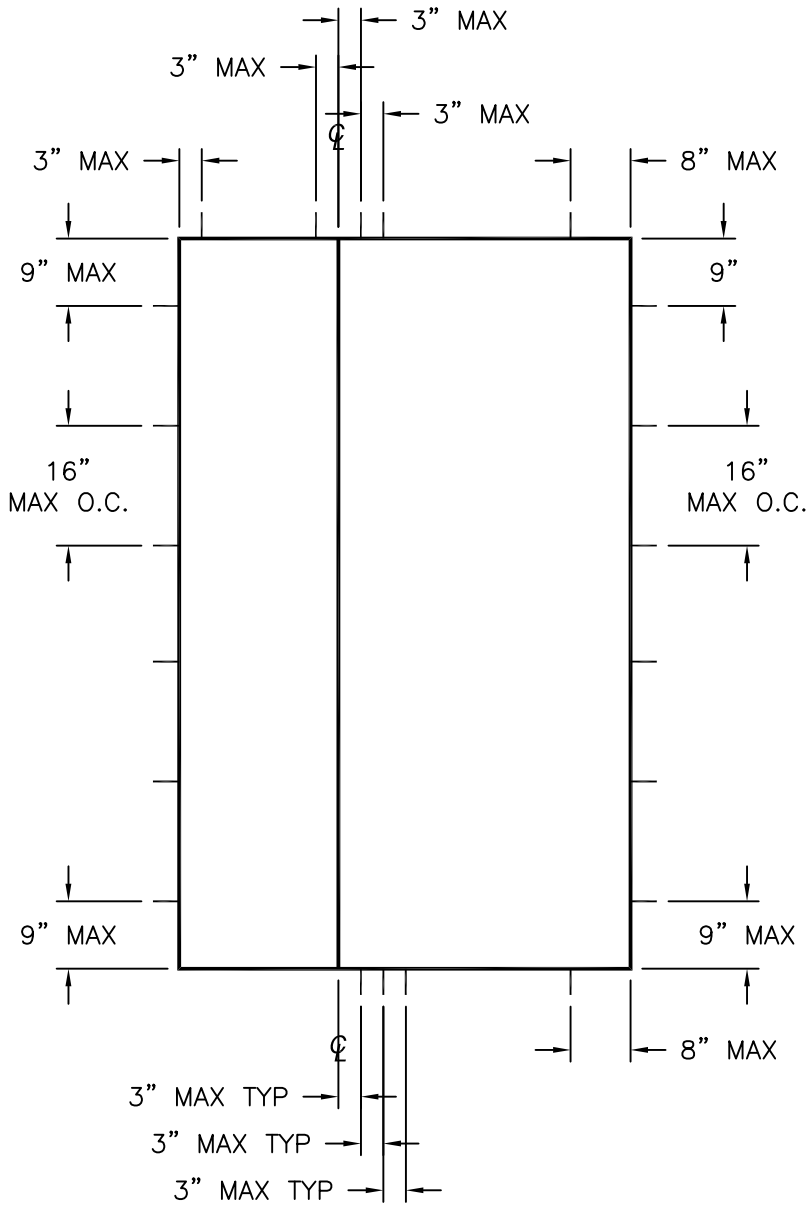
5. DOOR PANEL D.L.O.: 20 3/8" X 78 1/2"

6. SIDELITE PANEL D.L.O.: 12 3/8" X 78 3/8"

7. DIRECT SET D.L.O.: 18 5/8" X 93 25/32"



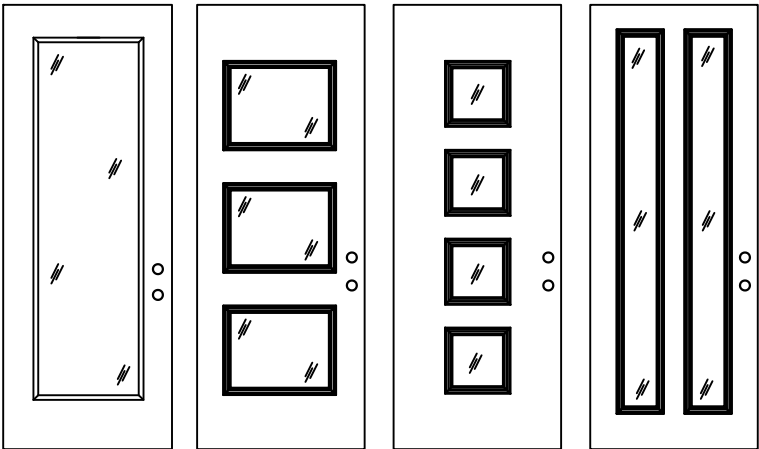
SINGLE W/SIDELITES



SINGLE W/SIDELITE

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APPROVED LITE CONFIGURATIONS



FULL LITE

3 LITE

4 LITE

2 LITE

LITE CONFIGURATIONS SHOWN ARE FOR REFERENCE ONLY. MULTIPLE LITE CONFIGURATIONS ARE APPROVED AS LONG AS LITE SIZE DOES NOT EXCEED 11.1 FT²

Anchors and anchor connectors corrosion resistance chart

| Exposure                                 | Distance from coastal shoreline                        |                                                        |
|------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
|                                          | 0' up to 300'                                          | >300' up to 3000'                                      |
| Exterior - partially sheltered           | 304 or A305 or 306 Stainless steel per ASTM A240       | Galvanized per ASTM A153 class D or ASTM A641 class 3S |
| Exterior - open exposed                  | 304 or A305 or 306 Stainless steel per ASTM A240       | Galvanized per ASTM A153 class D or ASTM A641 class 3S |
| Unconditioned interior-vented enclosed   | Galvanized per ASTM A153 class D or ASTM A641 class 3S | Galvanized per ASTM A153 class D or ASTM A641 class 3S |
| Unconditioned interior-unvented enclosed | Galvanized per ASTM A153 class D or ASTM A641 class 3S | Galvanized per ASTM A153 class D or ASTM A641 class 3S |

| HARDWARE SCHEDULE |                                                             |
|-------------------|-------------------------------------------------------------|
| A.                | F-SERIES & FC-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE     |
| B.                | B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE                       |
| C.                | F-SERIES & FC-SERIES DEADBOLT ASSEMBLY BY SCHLAGE           |
| D.                | RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE) |
| E.                | MULTI-POINT HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE)       |
| F.                | PANOLOCK MULTI-POINT LOCK ASSEMBLY (ALTERNATE)              |
| G.                | (3) 4" X 4" BALL BEARING HINGES BY PENROD                   |
| H.                | (3) 4" X 4" SPRING BOMMER HINGES BY PENROD (ALTERNATE)      |

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STEEL INSWING GLAZED SINGLE DOOR  
W/SIDELITES – IMPACT  
ANCHORING LAYOUTS

DRAWN:  
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08-01937

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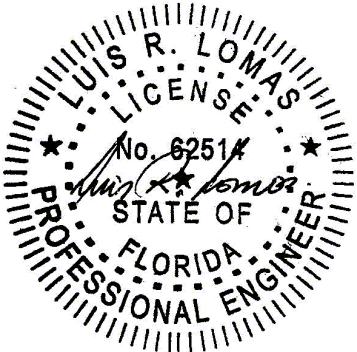
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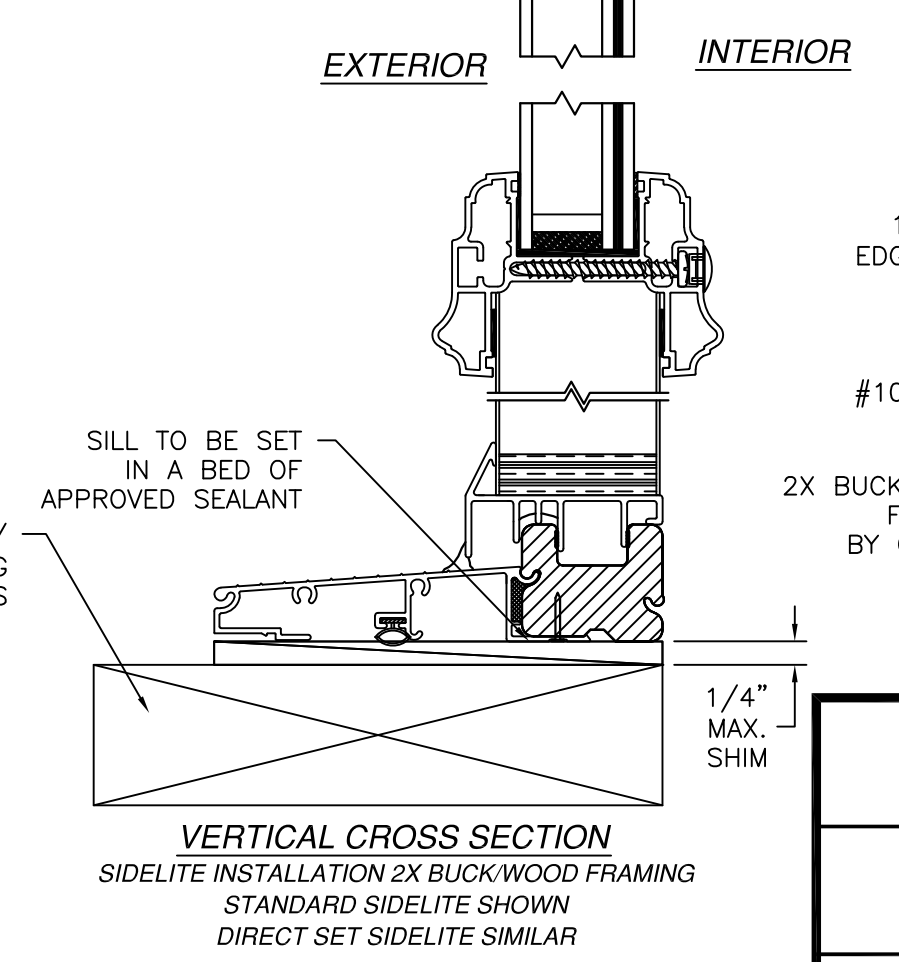
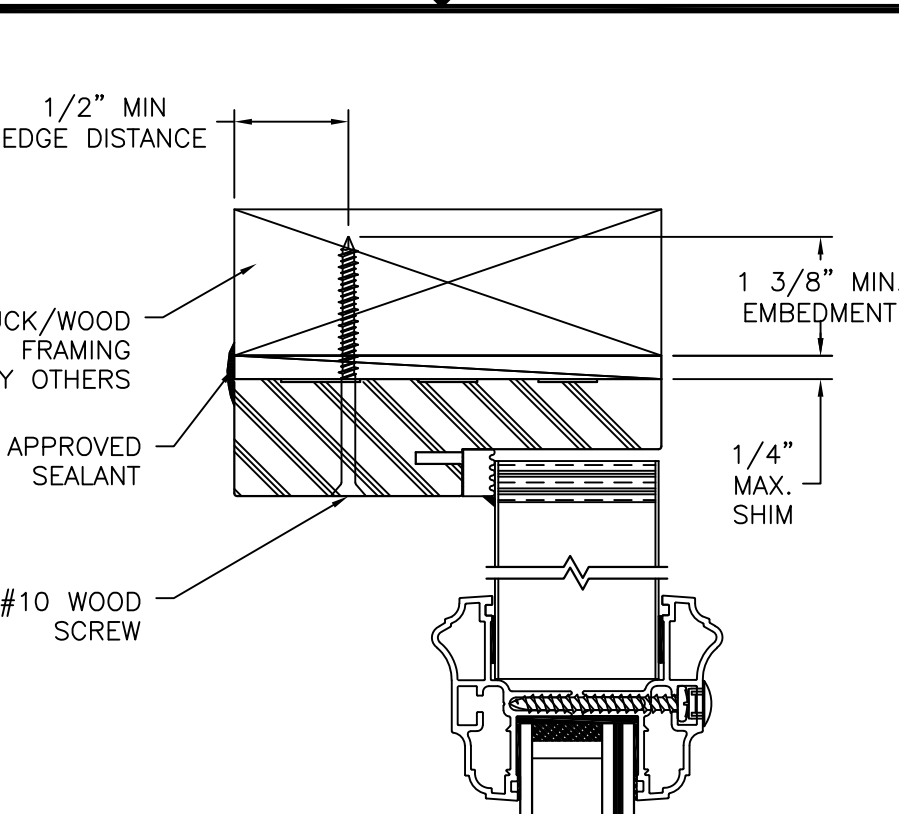
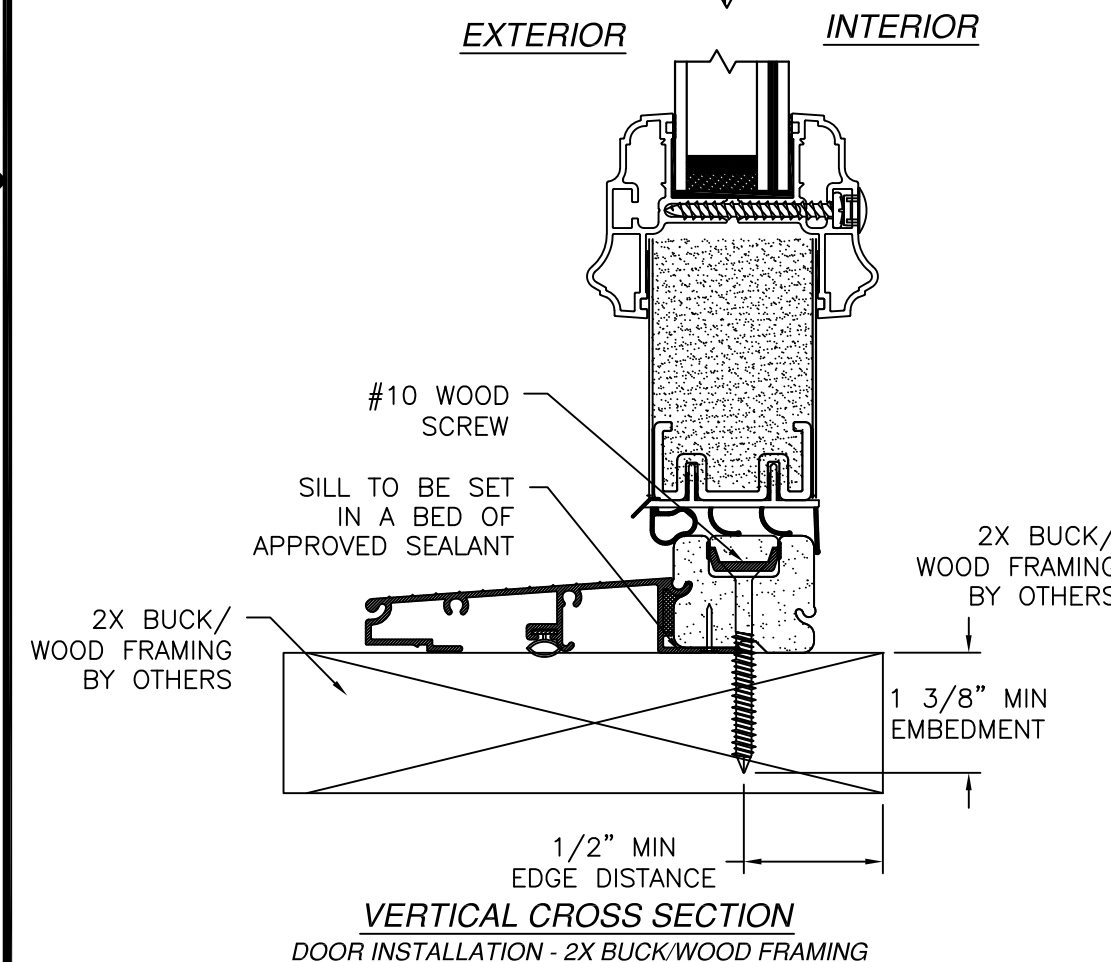
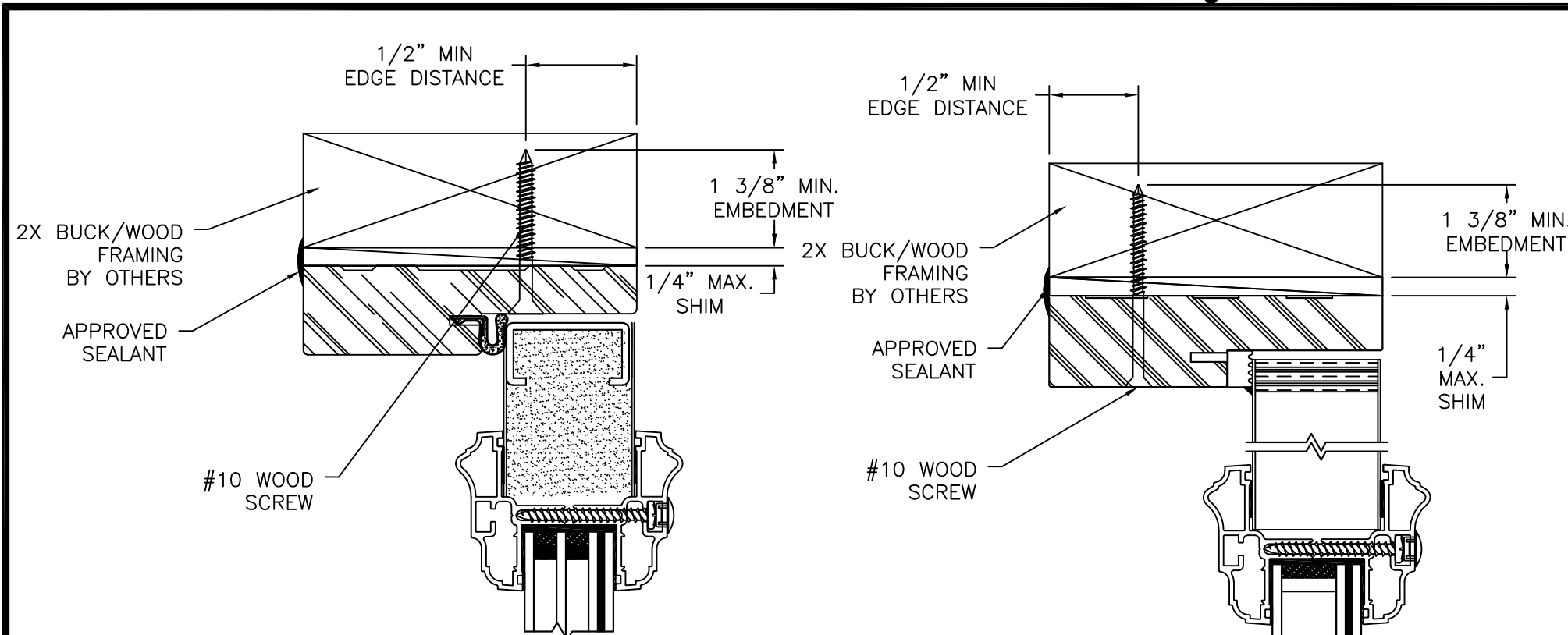
SHEET  
3 OF 14

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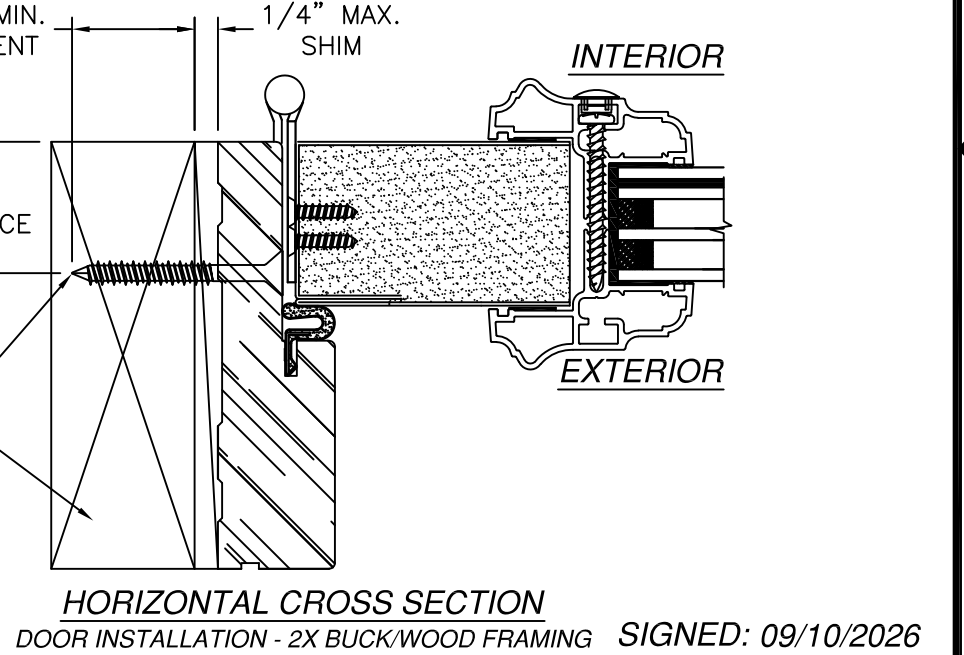
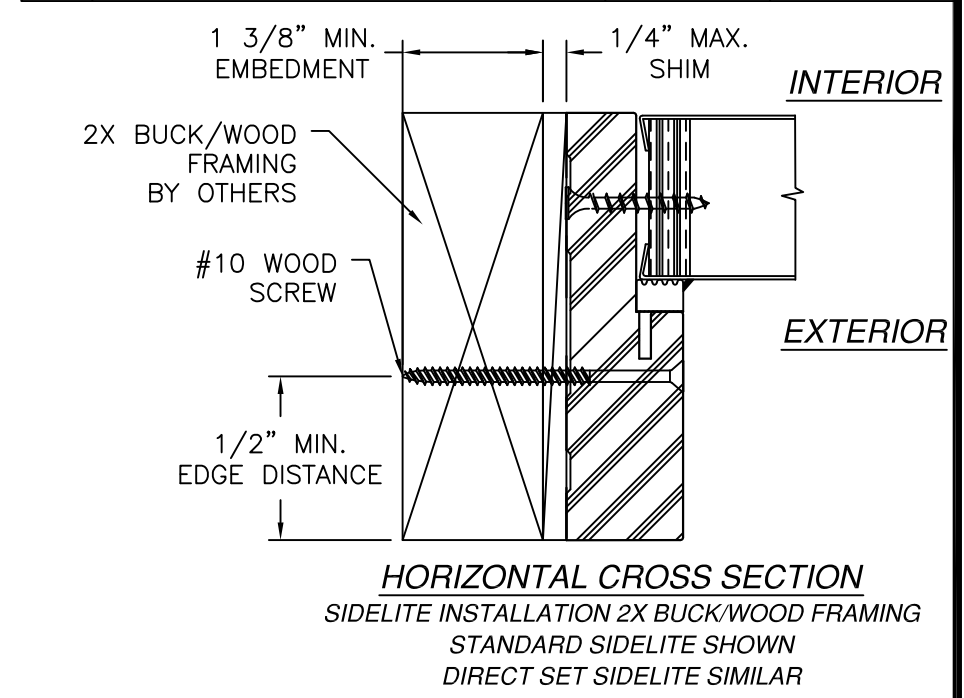
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Luis R. Lomas P.E.  
FL No.: 62514



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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

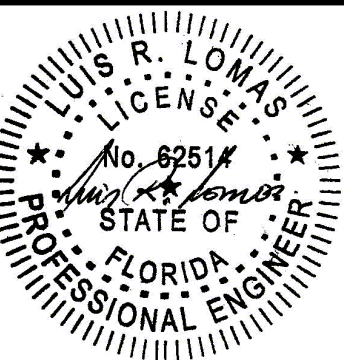
**PROVIA, LLC.**  
 2150 STATE ROUTE 39 WEST  
 SUGARCREEK, OH 44681

**STEEL INSWING GLAZED SINGLE DOOR  
W/SIDELITES - IMPACT  
INSTALLATION DETAILS**

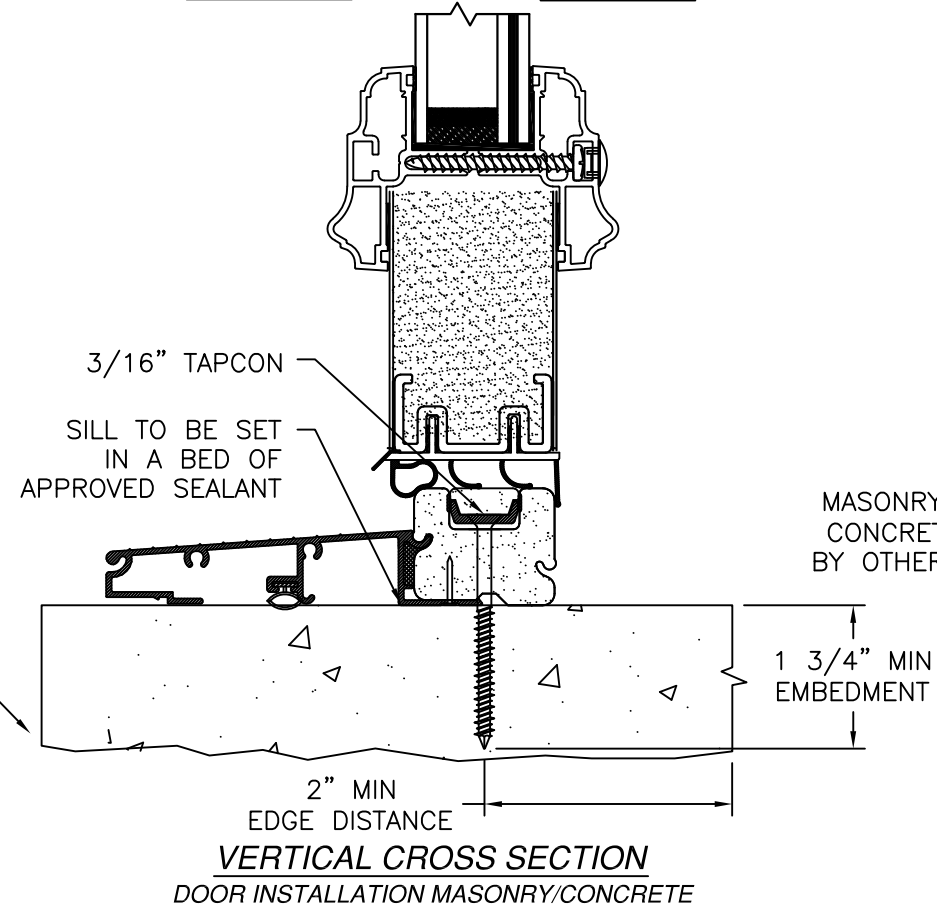
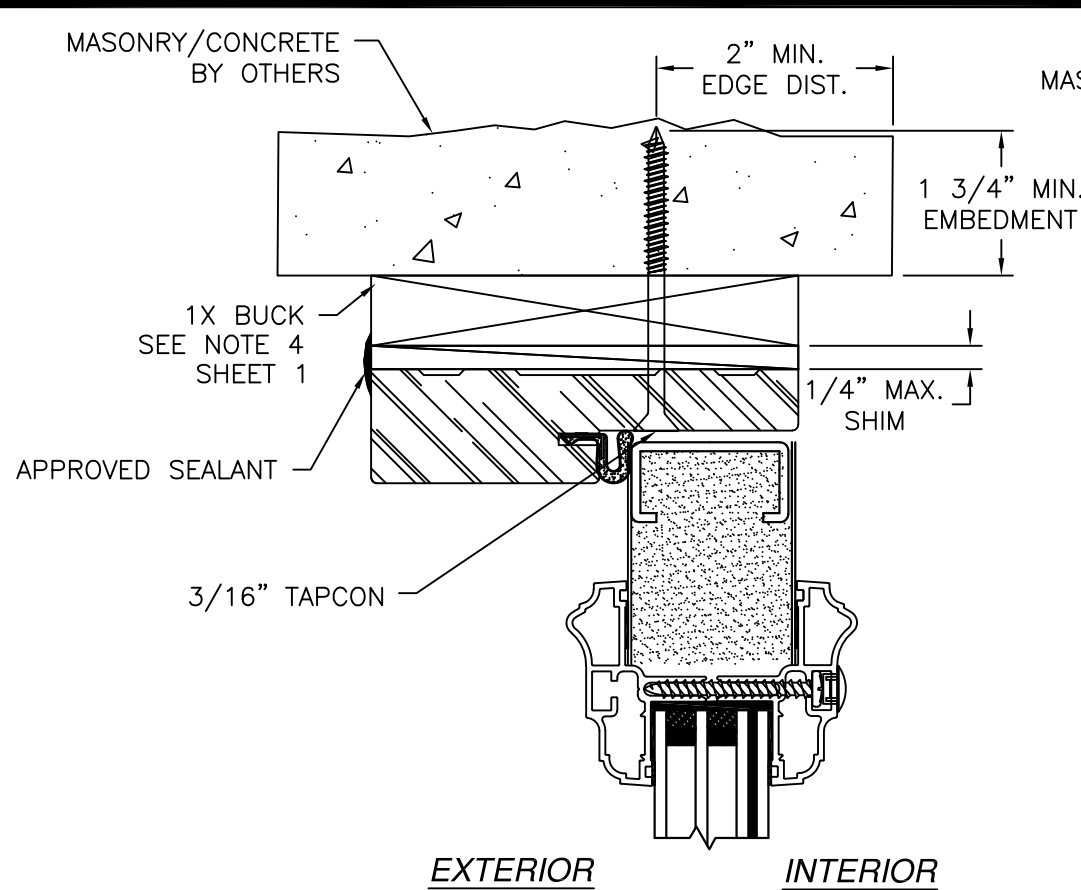
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 SCALE NTS      DATE 03/20/13      SHEET 4 OF 14

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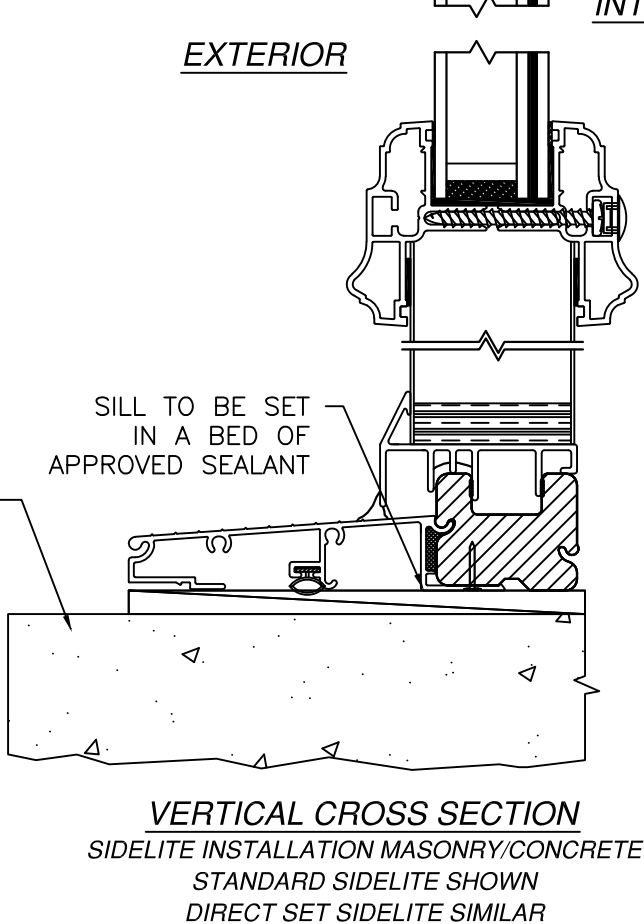
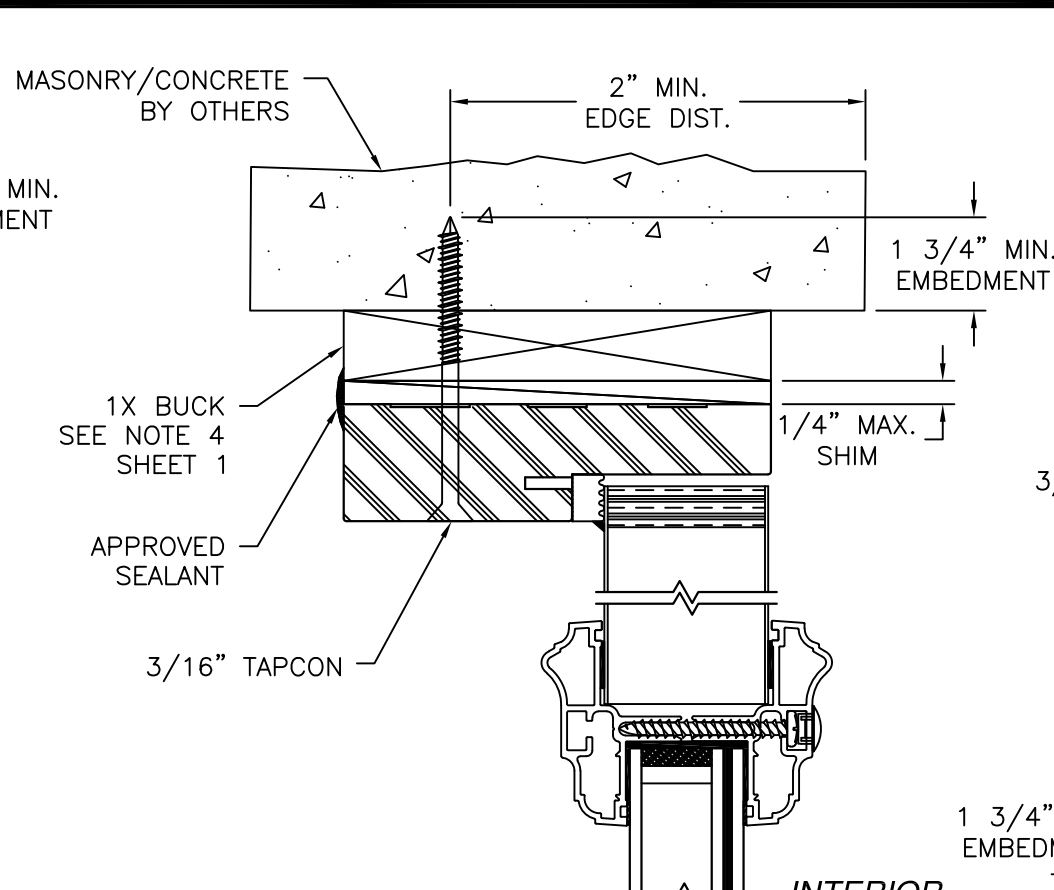
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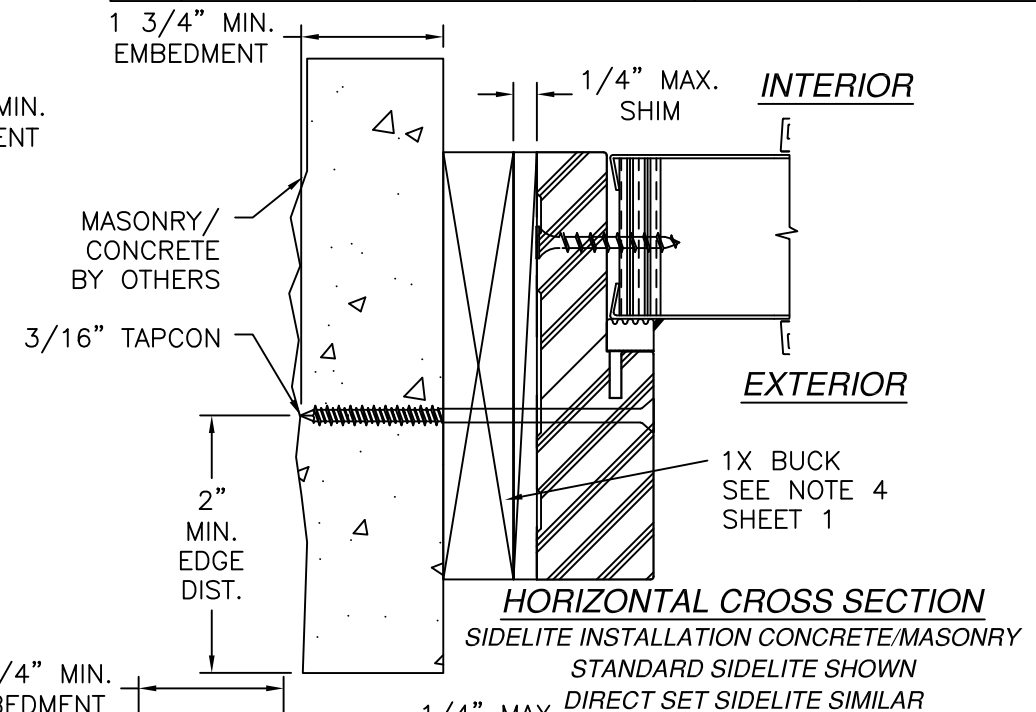


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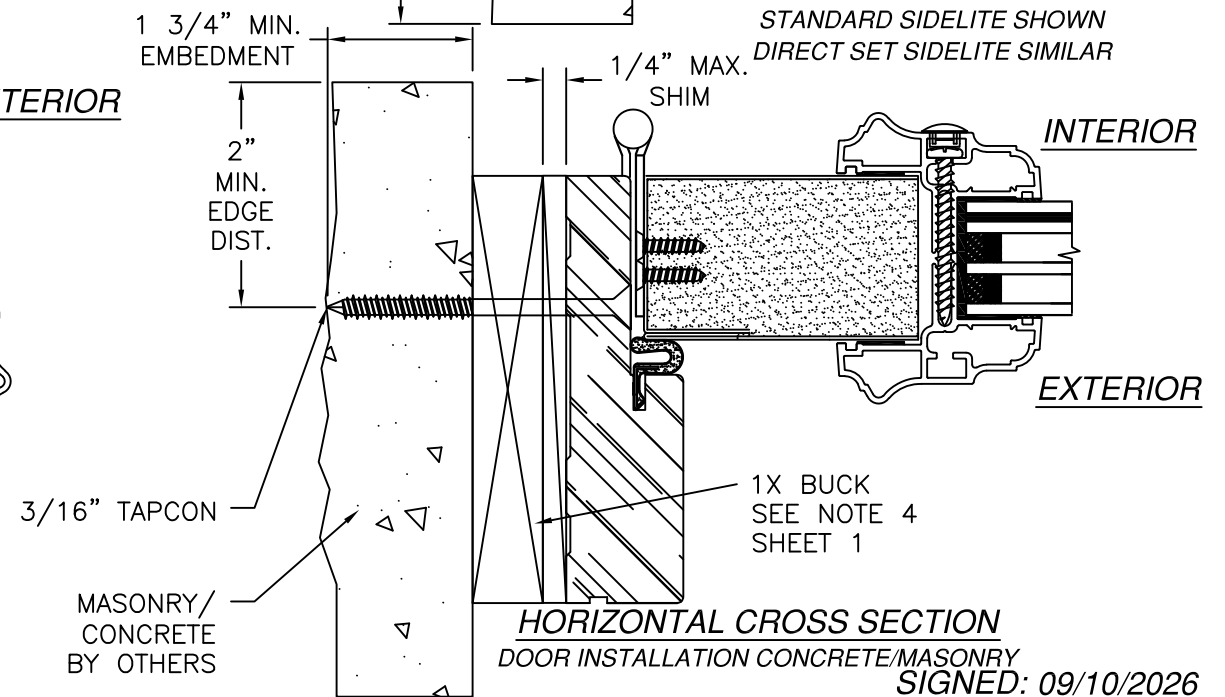


**VERTICAL CROSS SECTION**  
SIDELITE INSTALLATION MASONRY/CONCRETE  
STANDARD SIDELITE SHOWN  
DIRECT SET SIDELITE SIMILAR

| REVISIONS |                           |          |          |
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**HORIZONTAL CROSS SECTION**  
SIDELITE INSTALLATION CONCRETE/MASONRY  
STANDARD SIDELITE SHOWN  
DIRECT SET SIDELITE SIMILAR



**HORIZONTAL CROSS SECTION**  
DOOR INSTALLATION CONCRETE/MASONRY  
SIGNED: 09/10/2026

**PROVIA, LLC.**  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

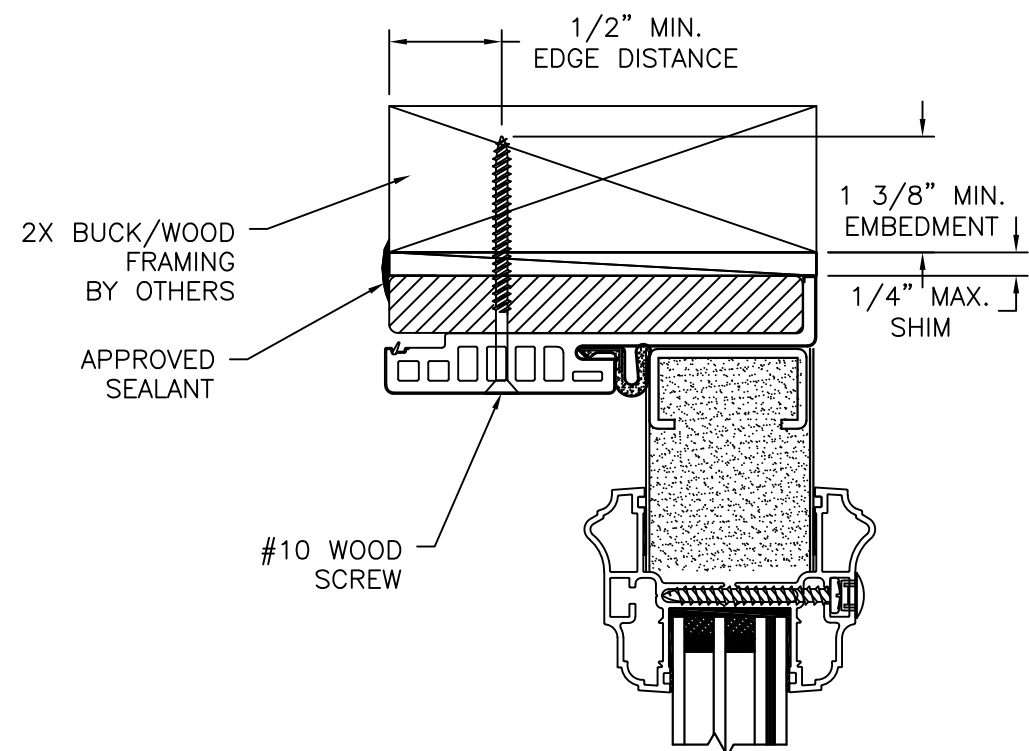
**STEEL INSWING GLAZED SINGLE DOOR  
W/SIDELITES - IMPACT  
INSTALLATION DETAILS**

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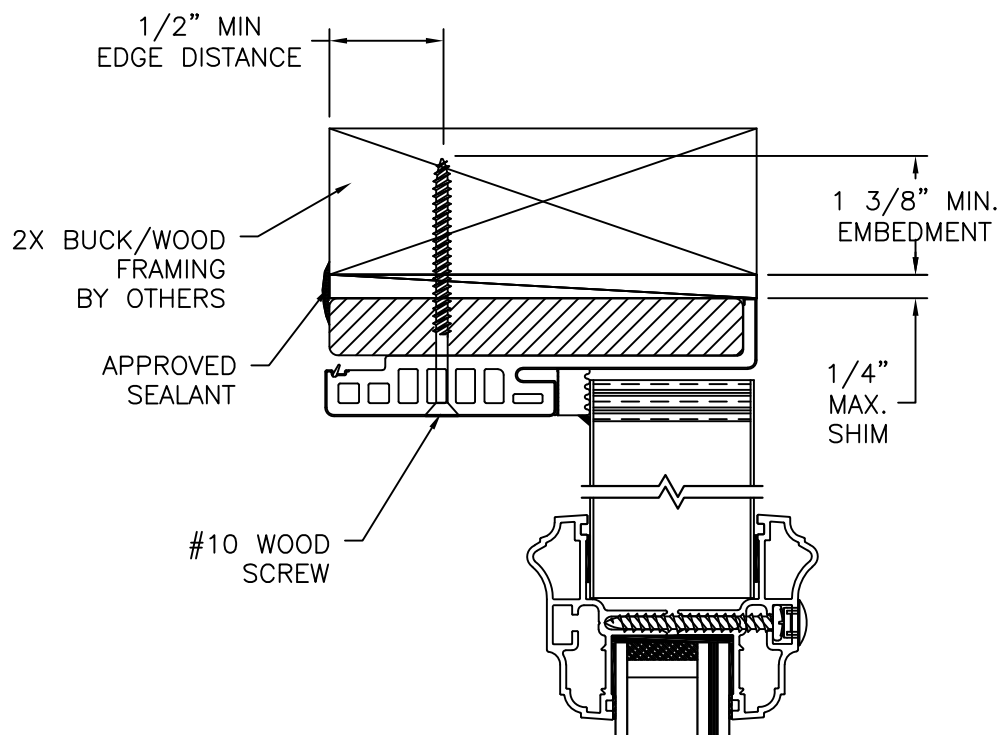
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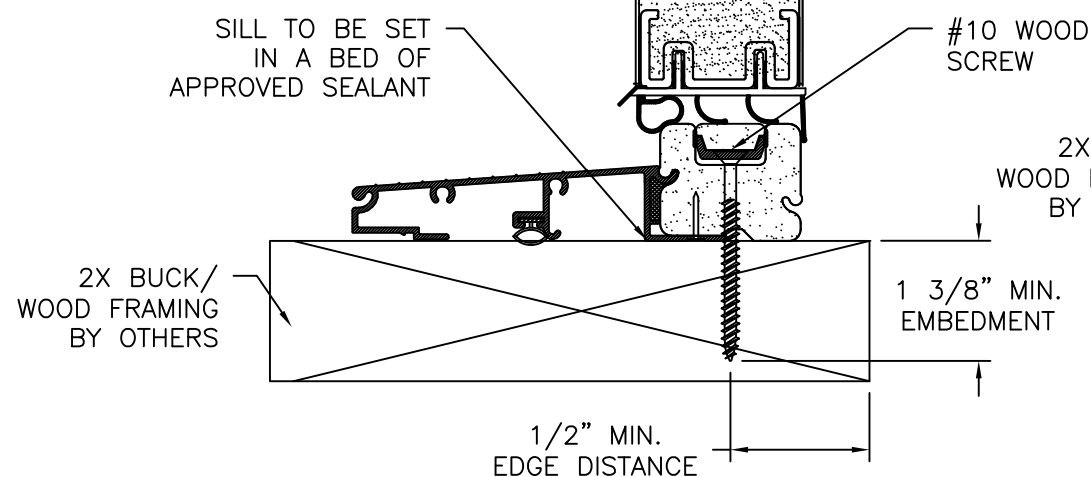
Luis R. Lomas P.E.  
FL No.: 62514



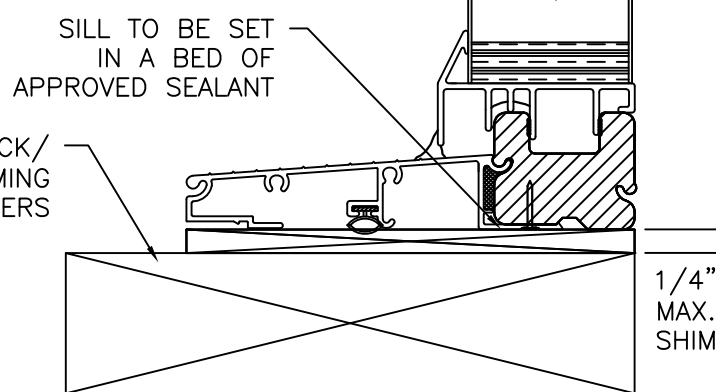
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EXTERIOR INTERIOR



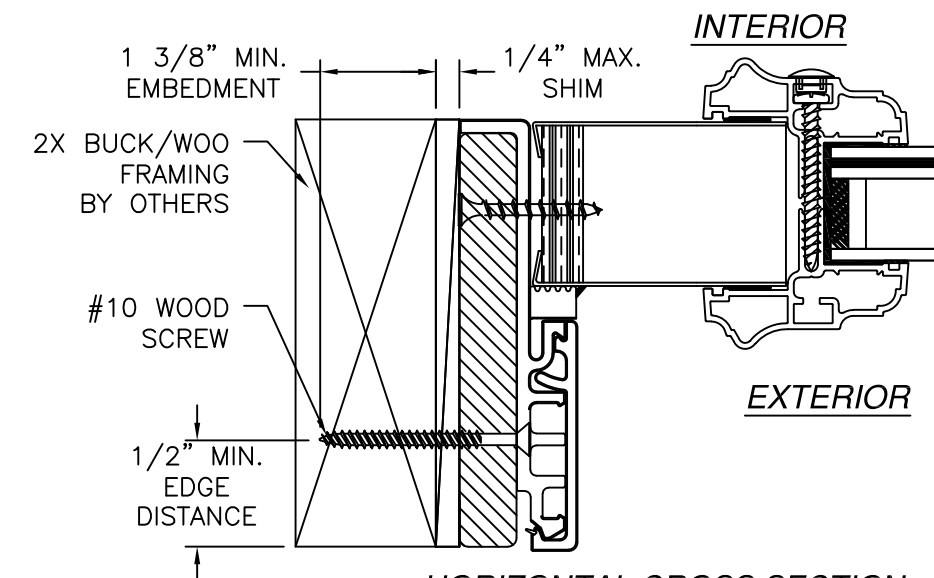
VERTICAL CROSS SECTION  
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING



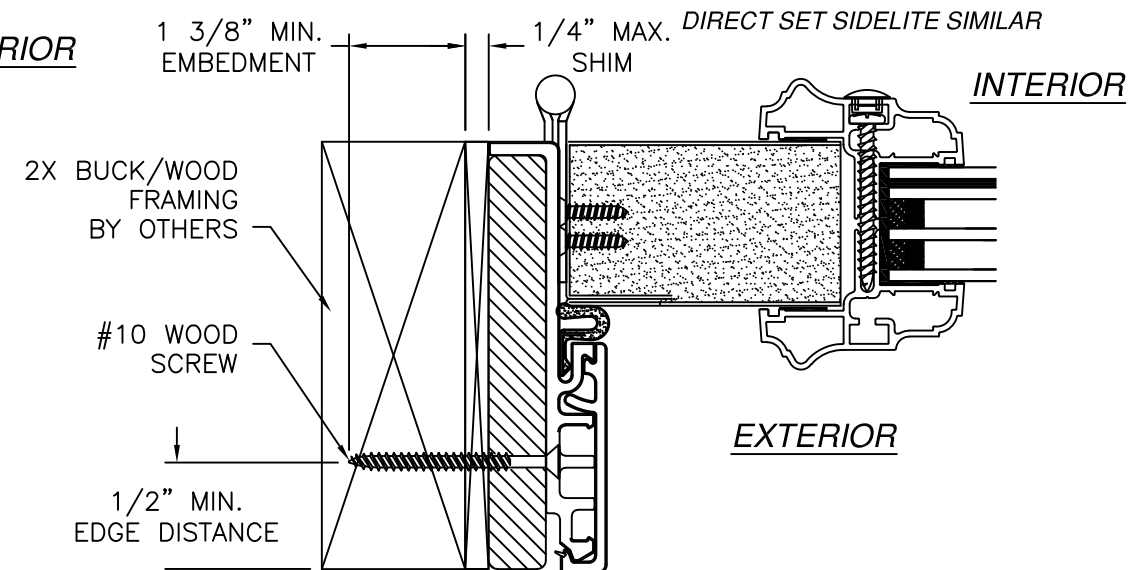
VERTICAL CROSS SECTION  
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING  
STANDARD SIDELITE SHOWN  
DIRECT SET SIDELITE SIMILAR

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HORIZONTAL CROSS SECTION  
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING  
STANDARD SIDELITE SHOWN  
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HORIZONTAL CROSS SECTION  
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING

SIGNED: 09/10/2026

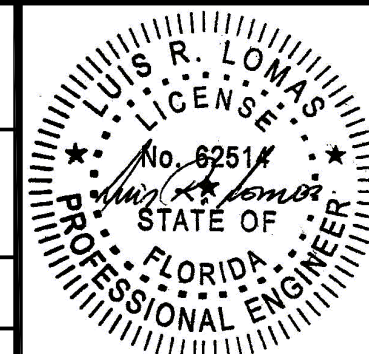
PROVIA, LLC.

2150 STATE ROUTE 39 WEST  
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STEEL INSWING GLAZED SINGLE DOOR  
W/SIDELITES - IMPACT  
INSTALLATION DETAILS W/FUSION FRAME

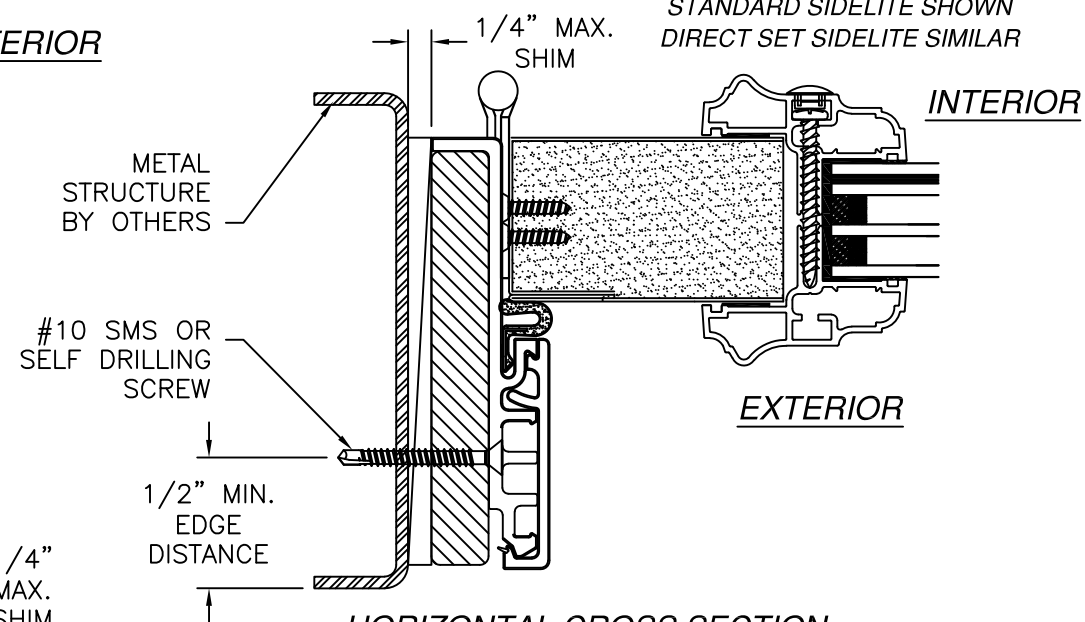
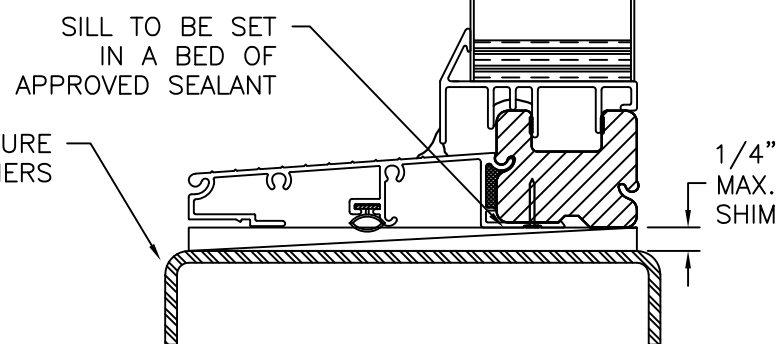
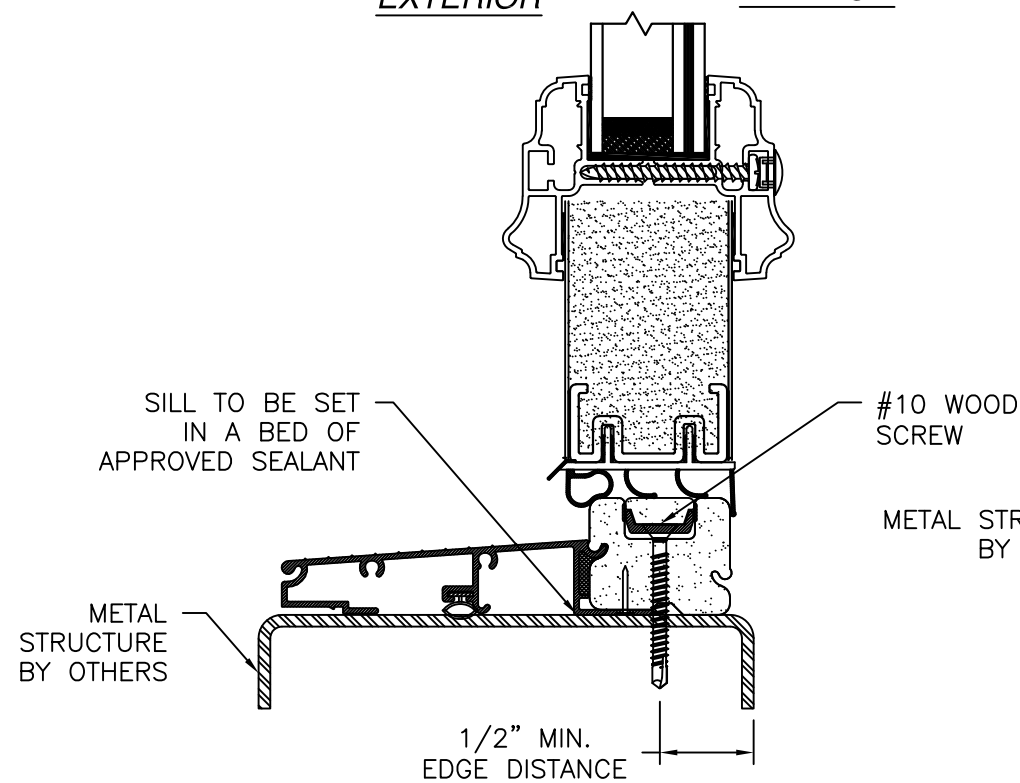
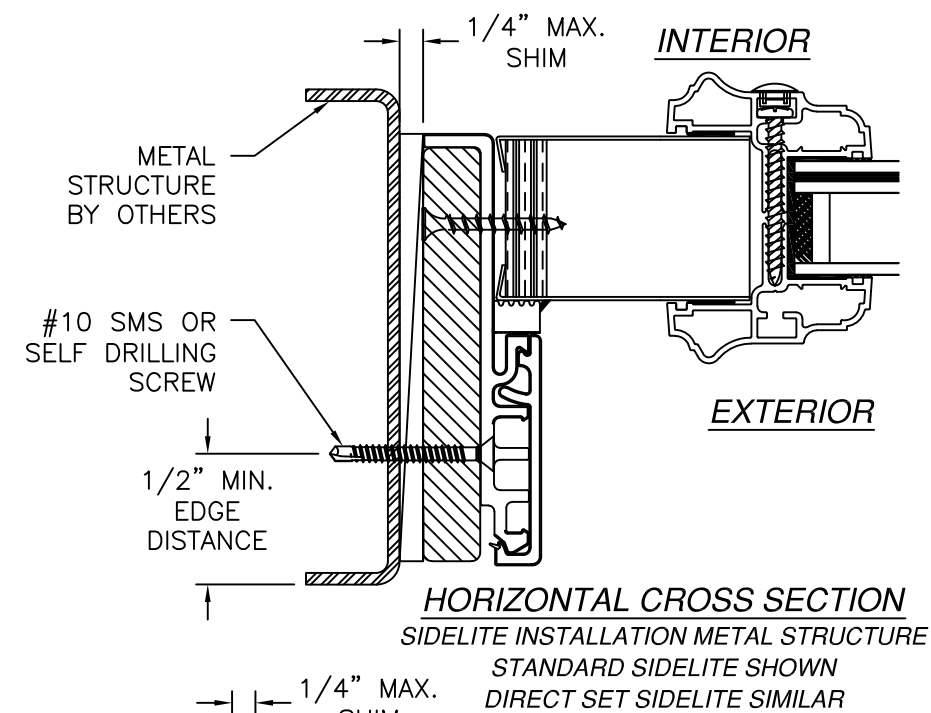
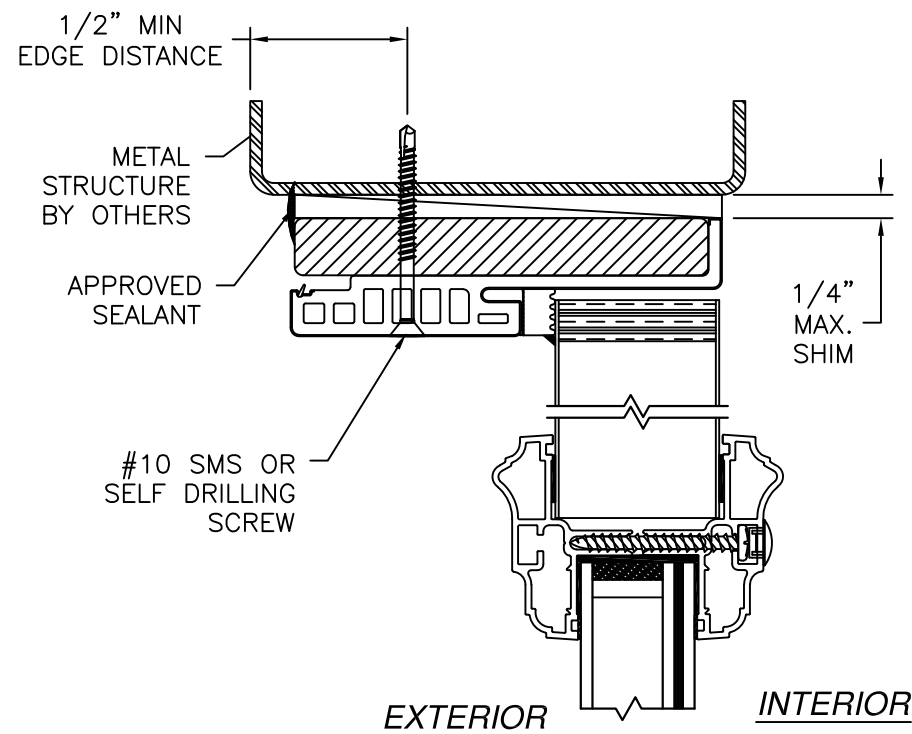
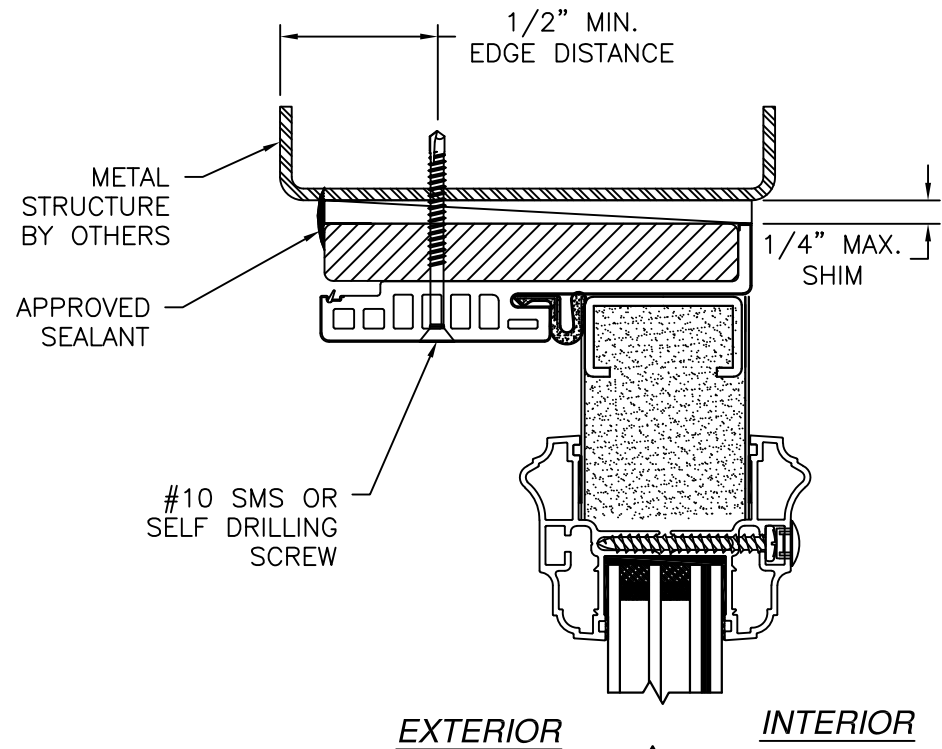
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| DRAWN:<br>A.P. | DWG NO.<br>08-01937 | REV<br>J         |
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**VERTICAL CROSS SECTION**  
DOOR INSTALLATION - METAL STRUCTURE

**VERTICAL CROSS SECTION**  
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING  
STANDARD SIDELITE SHOWN  
DIRECT SET SIDELITE SIMILAR

**HORIZONTAL CROSS SECTION**  
DOOR INSTALLATION - METAL STRUCTURE

- NOTES:
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STEEL INSWING GLAZED SINGLE DOOR  
W/SIDELITES - IMPACT  
INSTALLATION DETAILS W/FUSION FRAME

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SHEET

8

OF

14

L. ROBERTO LOMAS P.E.

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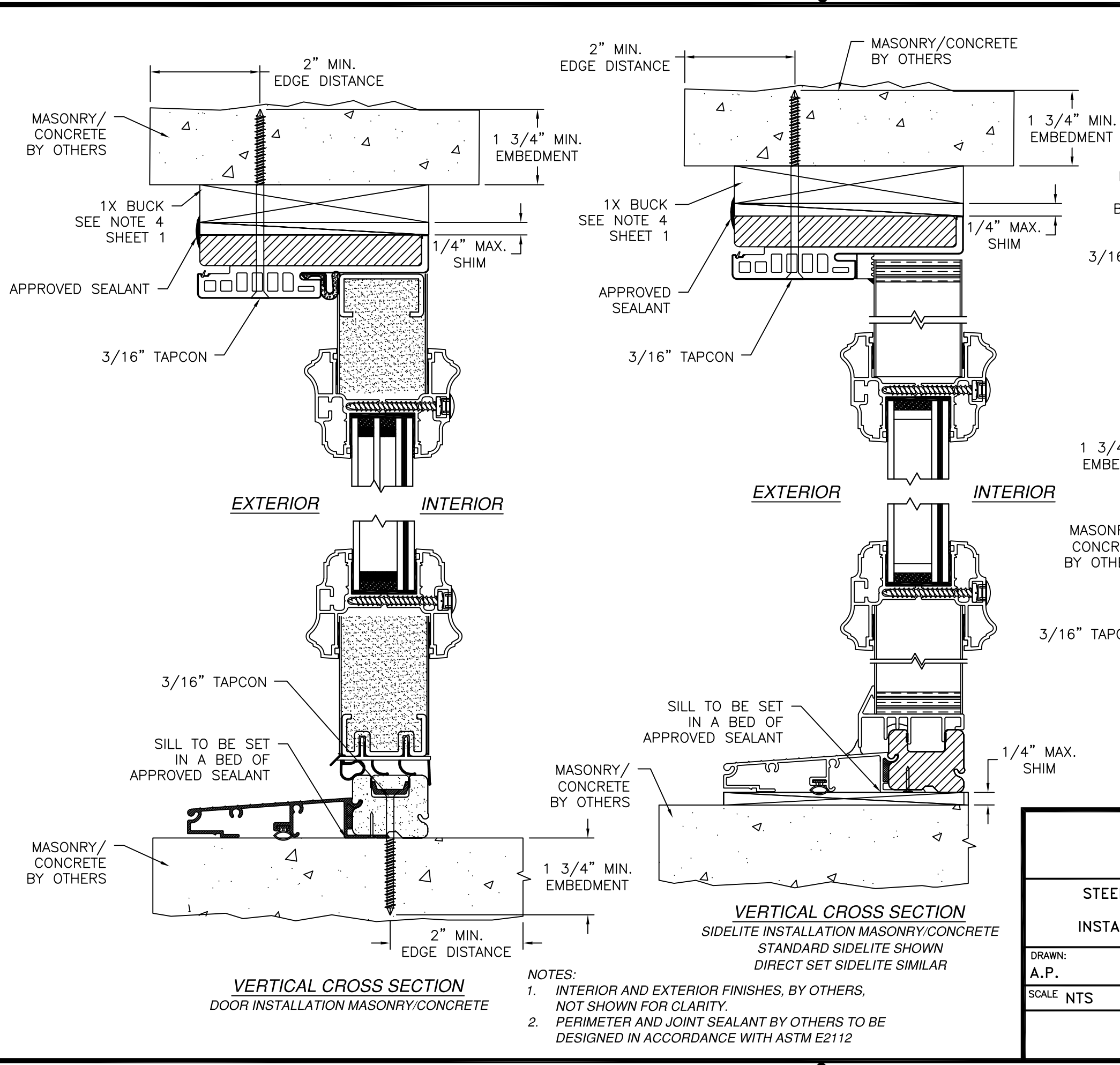
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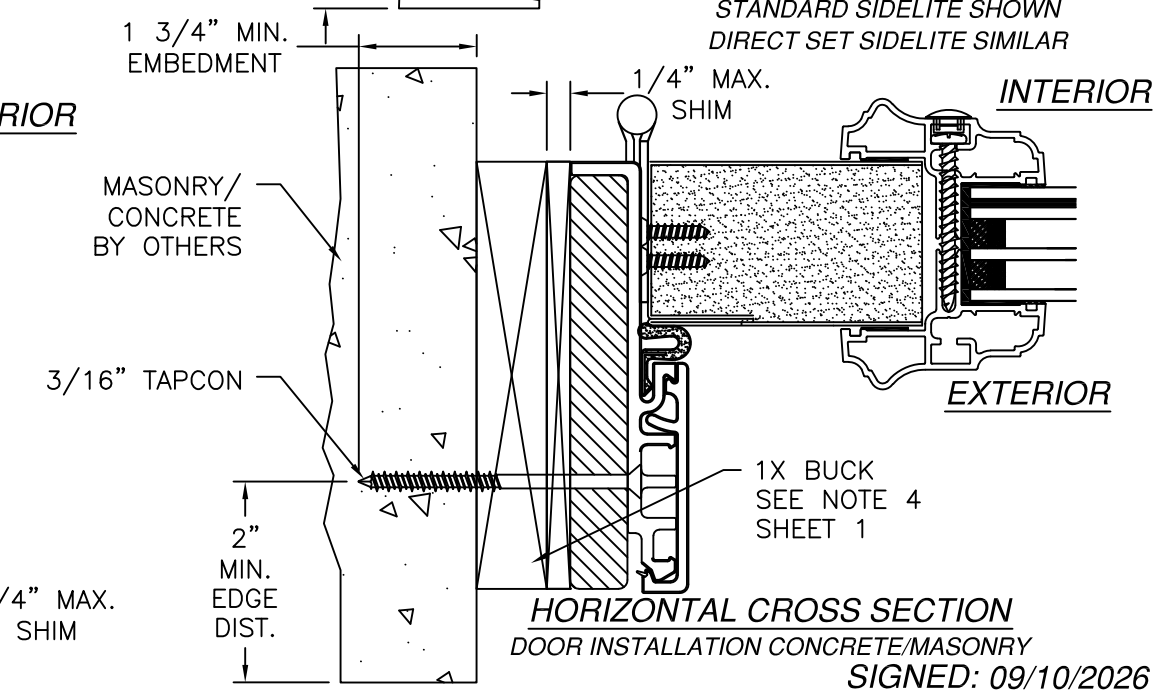
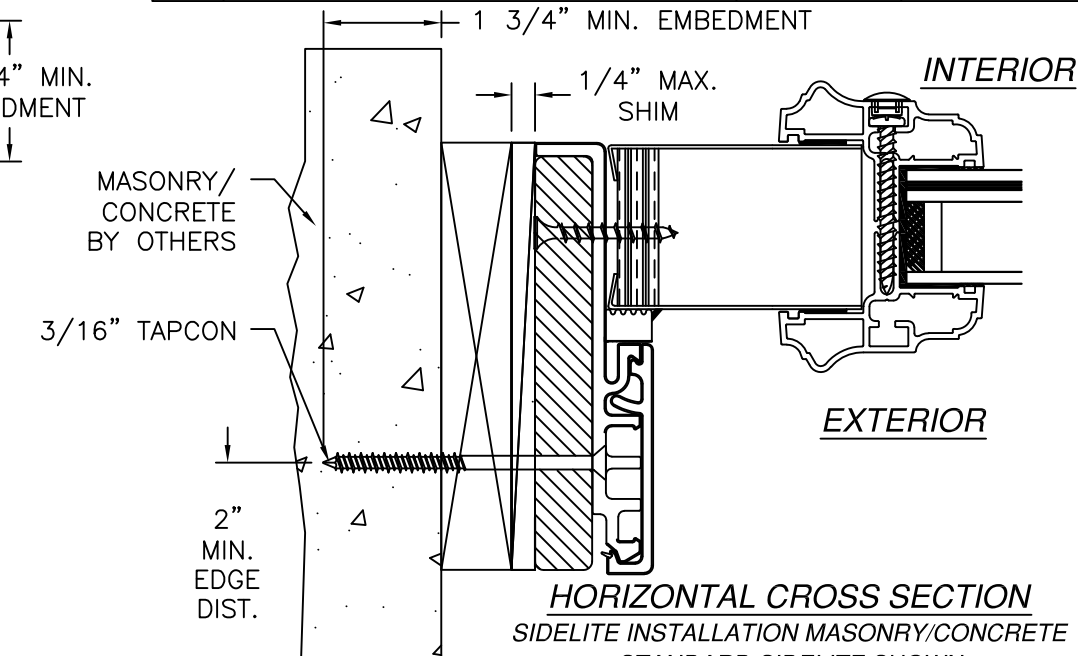
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- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

**PROVIA, LLC.**  
 2150 STATE ROUTE 39 WEST  
 SUGARCREEK, OH 44681

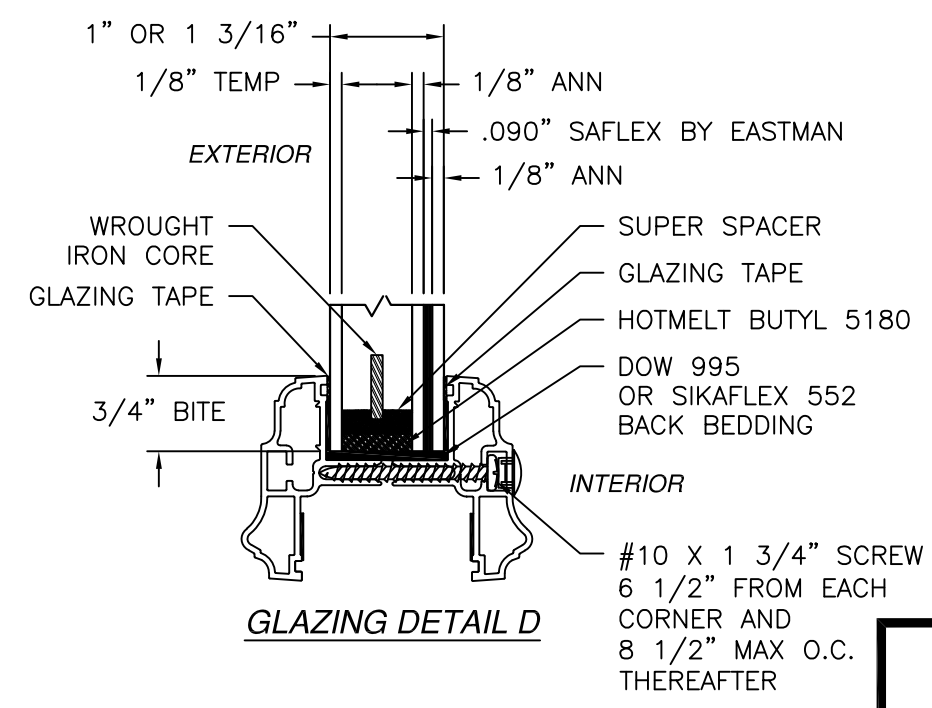
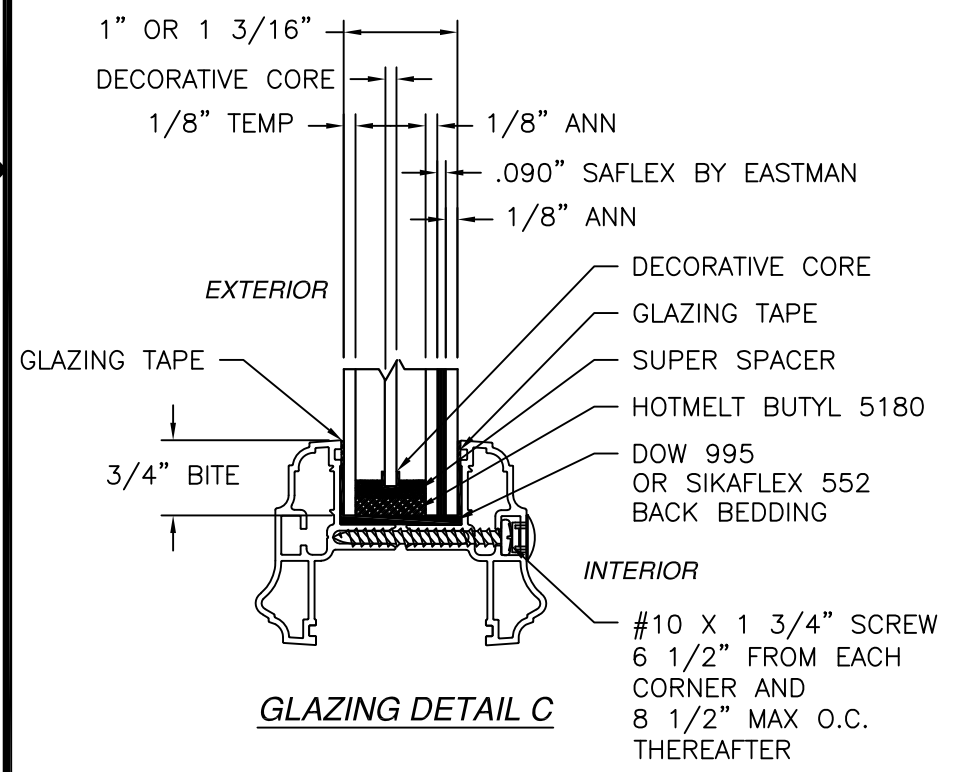
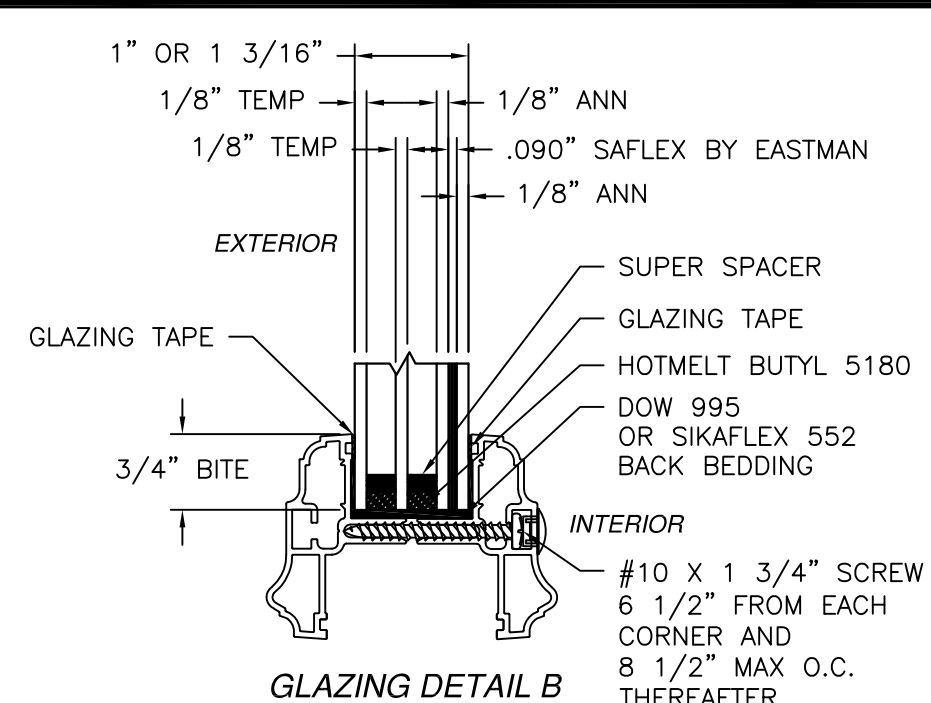
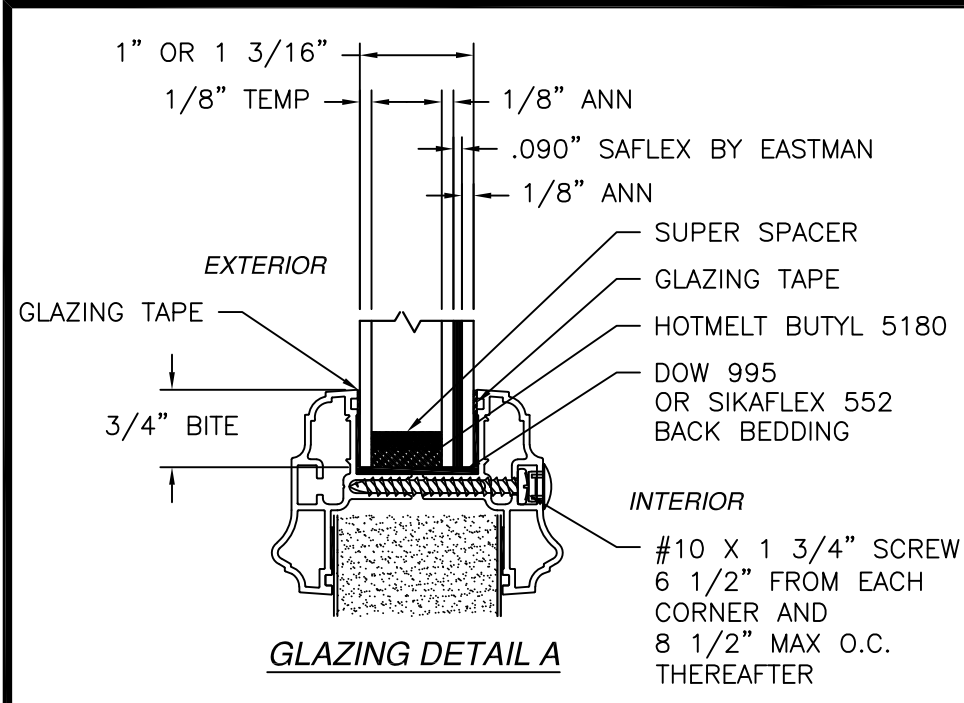
**STEEL INSWING GLAZED SINGLE DOOR  
 W/SIDELITES - IMPACT  
 INSTALLATION DETAILS W/FUSION FRAME**

|                |                     |                  |
|----------------|---------------------|------------------|
| DRAWN:<br>A.P. | DWG NO.<br>08-01937 | REV<br>J         |
| SCALE<br>NTS   | DATE<br>03/20/13    | SHEET<br>9 OF 14 |

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

**LUIS R. LOMAS**  
 LICENSED PROFESSIONAL ENGINEER  
 No. 62514  
 STATE OF FLORIDA

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



| REVISIONS |                           |          |          |
|-----------|---------------------------|----------|----------|
| REV       | DESCRIPTION               | DATE     | APPROVED |
| J         | REVISED HARDWARE SCHEDULE | 09/10/26 | R.L.     |

**PROVIA, LLC.**  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

**STEEL INSWING GLAZED SINGLE DOOR  
W/SIDELITES - IMPACT  
GLAZING DETAILS**

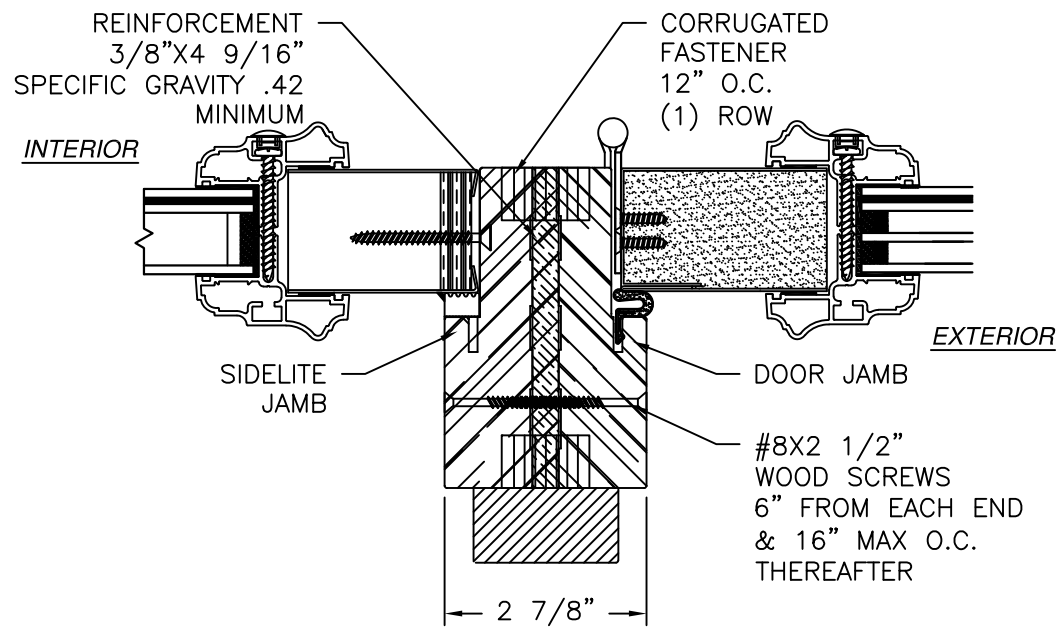
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|----------------|---------------------|-------------------|
| DRAWN:<br>A.P. | DWG NO.<br>08-01937 | REV<br>J          |
| SCALE<br>NTS   | DATE<br>03/20/13    | SHEET<br>10 OF 14 |

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SIGNED: 09/10/2026

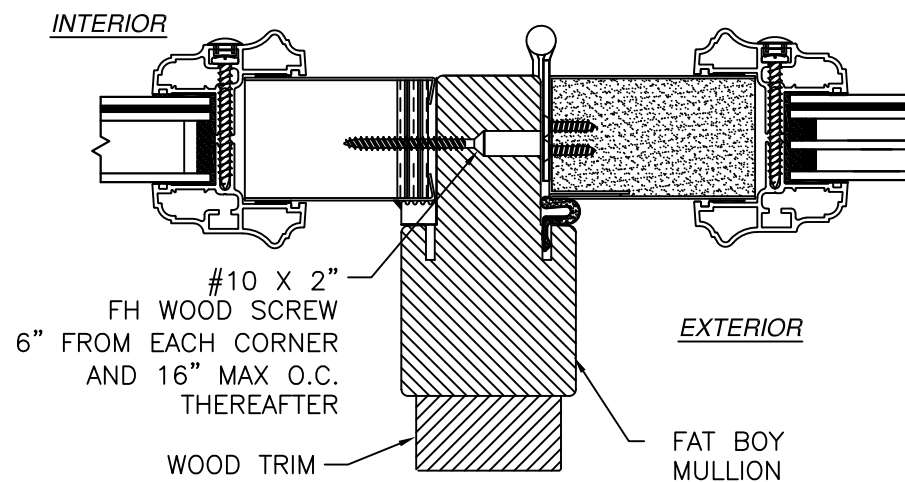
**Luis R. Lomas P.E.**  
No. 62514  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

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



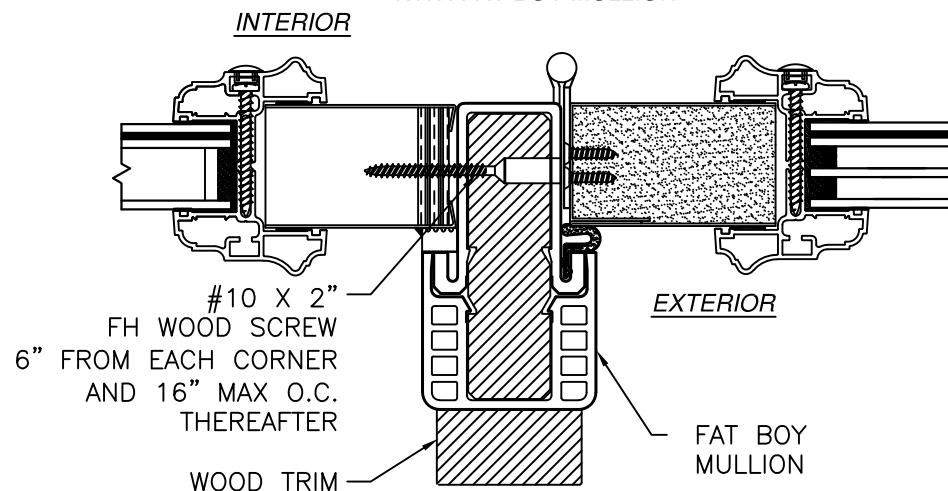
**MULLION DETAIL**

STANDARD FRAME SHOWN,  
COMPOSITE AND FUSION FRAME SIMILAR



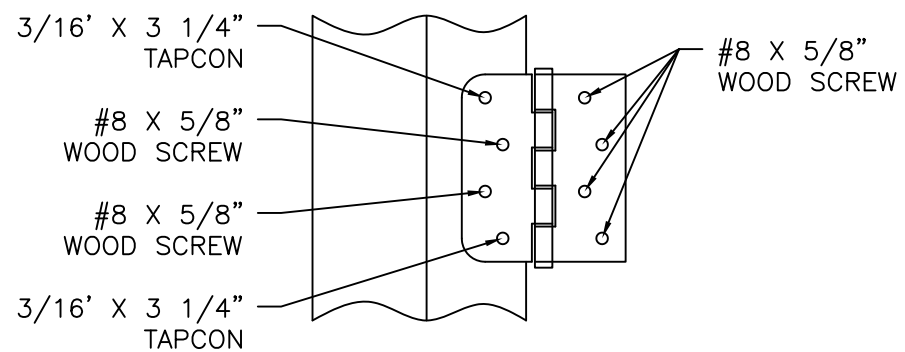
**MULLION DETAIL**

WITH FAT BOY MULLION



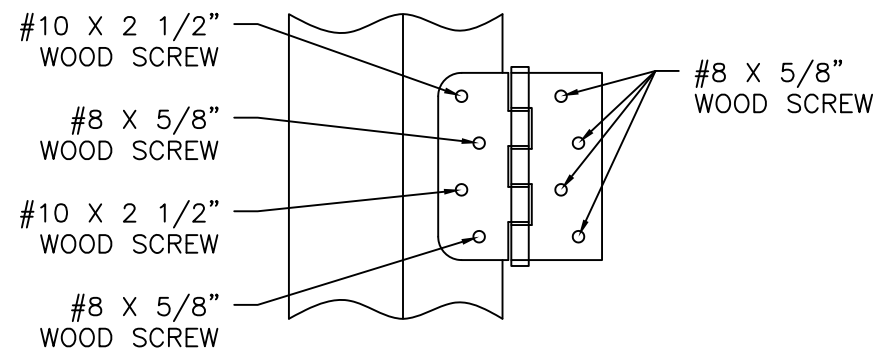
**MULLION DETAIL**

WITH HYBRID FAT BOY MULLION



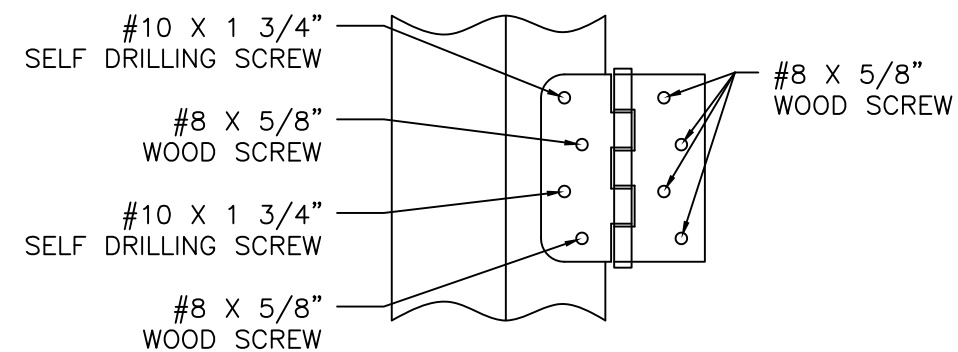
**HINGE INSTALLATION DETAIL**

MASONRY/CONCRETE



**HINGE INSTALLATION DETAIL**

2X BUCK/WOOD FRAMING



**HINGE INSTALLATION DETAIL**

METAL STRUCTURE

| REVISIONS |                           |          |          |
|-----------|---------------------------|----------|----------|
| REV       | DESCRIPTION               | DATE     | APPROVED |
| J         | REVISED HARDWARE SCHEDULE | 09/10/26 | R.L.     |

PROVIA, LLC.

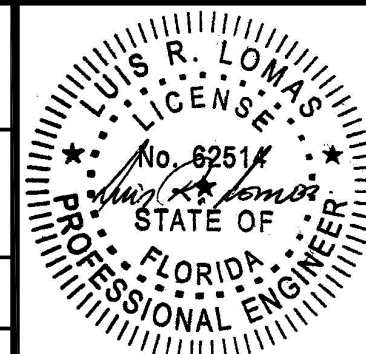
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL INSWING GLAZED SINGLE DOOR  
W/SIDELITES - IMPACT  
MULLION AND HINGES DETAILS

|                |                     |                |
|----------------|---------------------|----------------|
| DRAWN:<br>A.P. | DWG NO.<br>08-01937 | REV<br>J       |
| SCALE NTS      | DATE 03/20/13       | SHEET 11 OF 14 |

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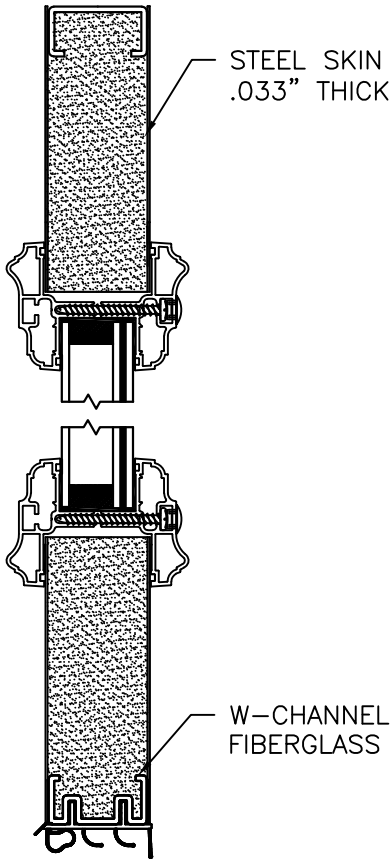
SIGNED: 09/10/2026



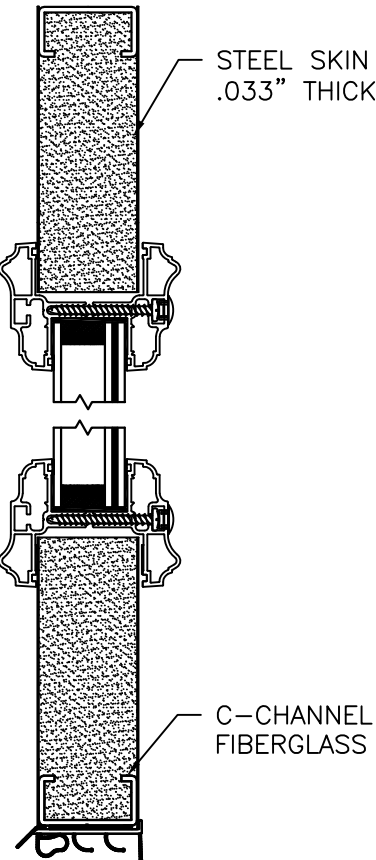
Luis R. Lomas P.E.  
FL No.: 62514

APPROVED SLABS AND TRIMS

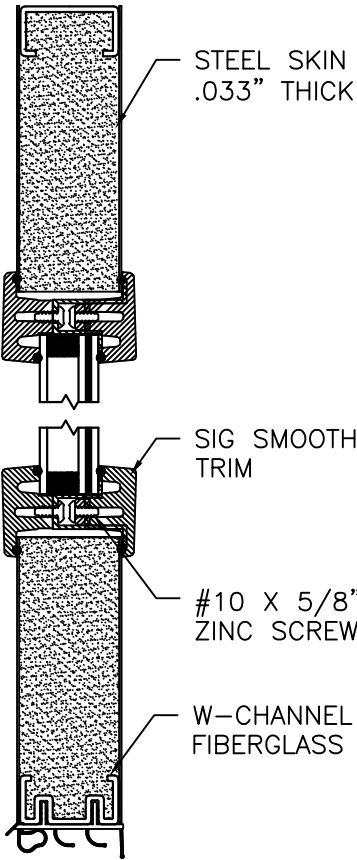
| REVISIONS |                           |          |          |
|-----------|---------------------------|----------|----------|
| REV       | DESCRIPTION               | DATE     | APPROVED |
| J         | REVISED HARDWARE SCHEDULE | 09/10/26 | R.L.     |



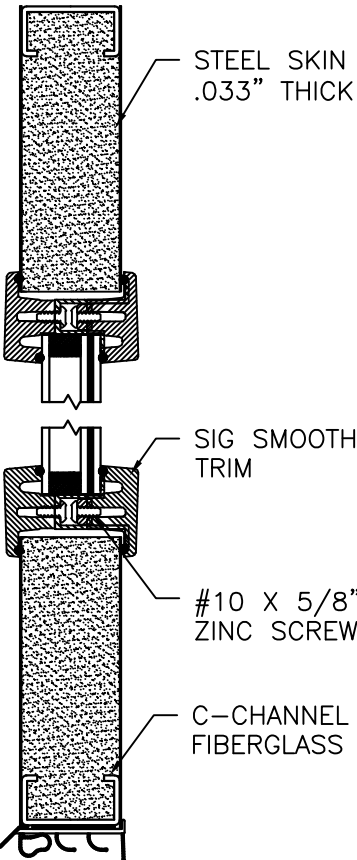
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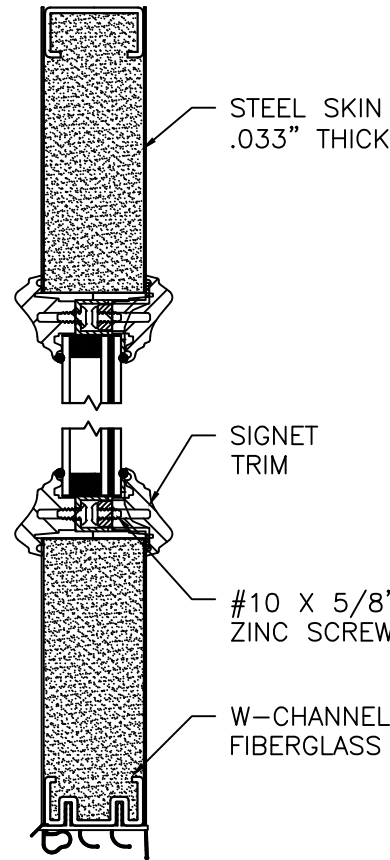
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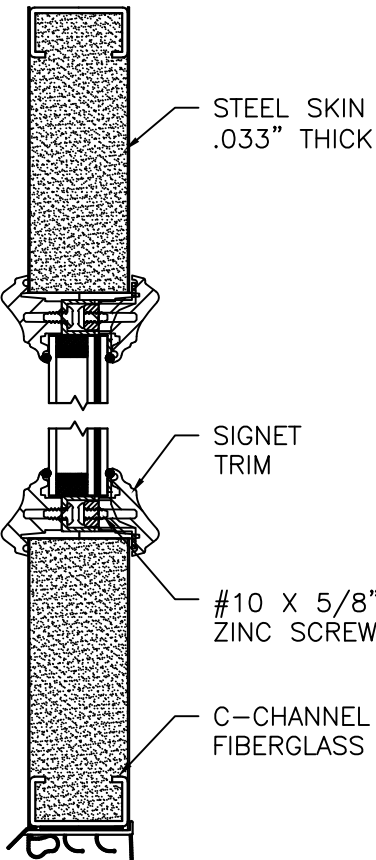
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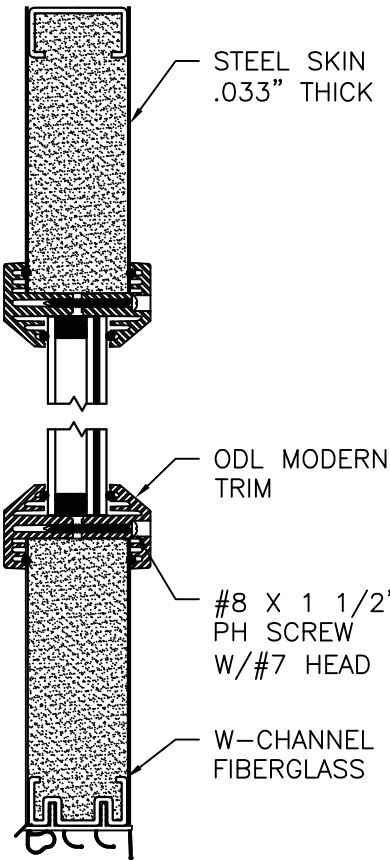
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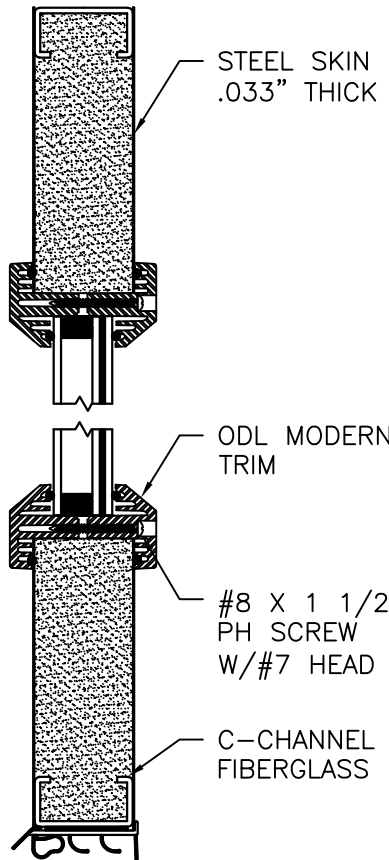
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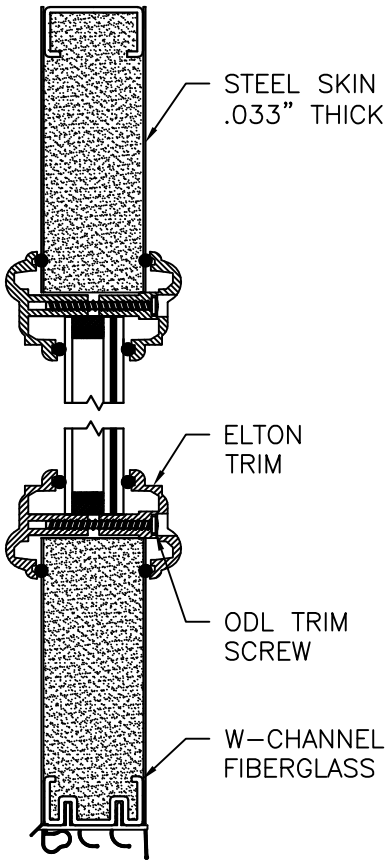
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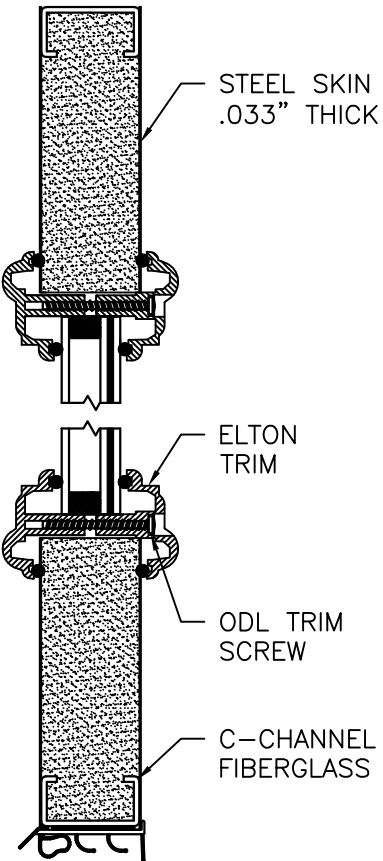
PANEL OPTION 7



PANEL OPTION 8



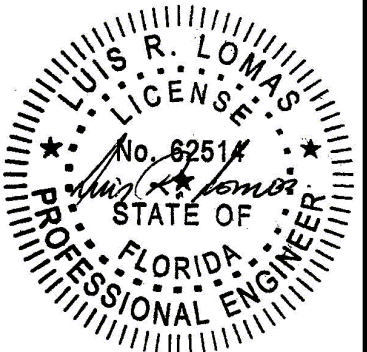
PANEL OPTION 9



PANEL OPTION 10

|                                                                                                   |                     |                   |
|---------------------------------------------------------------------------------------------------|---------------------|-------------------|
| PROVIA, LLC.<br>2150 STATE ROUTE 39 WEST<br>SUGARCREEK, OH 44681                                  |                     |                   |
| STEEL INSWING GLAZED SINGLE DOOR<br>W/SIDELITES - IMPACT<br>APPROVED SLABS                        |                     |                   |
| DRAWN:<br>A.P.                                                                                    | DWG NO.<br>08-01937 | REV<br>J          |
| SCALE<br>NTS                                                                                      | DATE<br>03/20/13    | SHEET<br>12 OF 14 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                   |

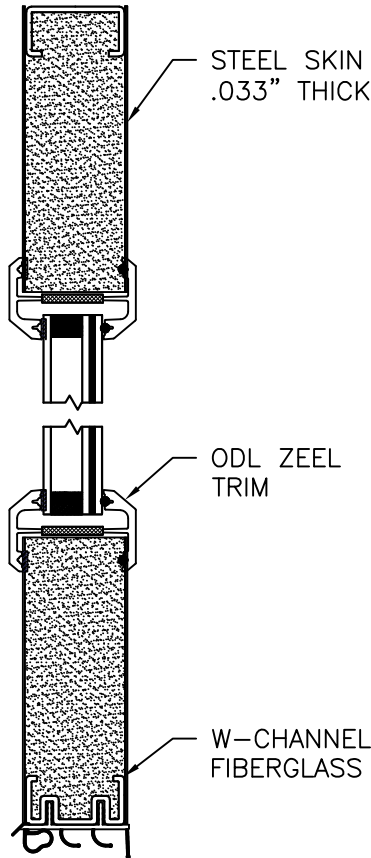
SIGNED: 09/10/2026



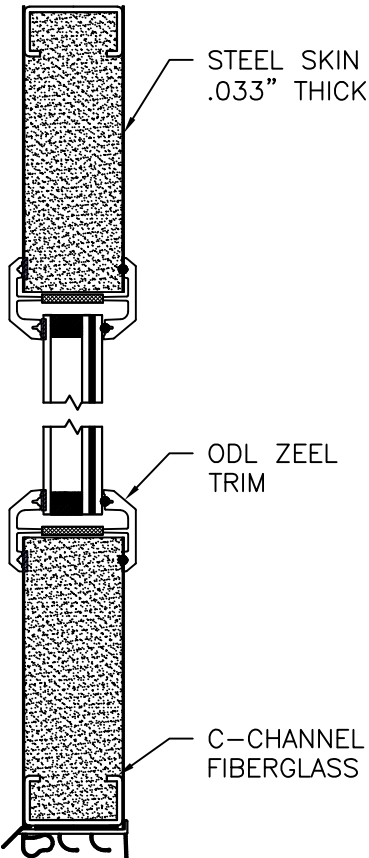
Luis R. Lomas P.E.  
FL No.: 62514

APPROVED SLABS AND TRIMS

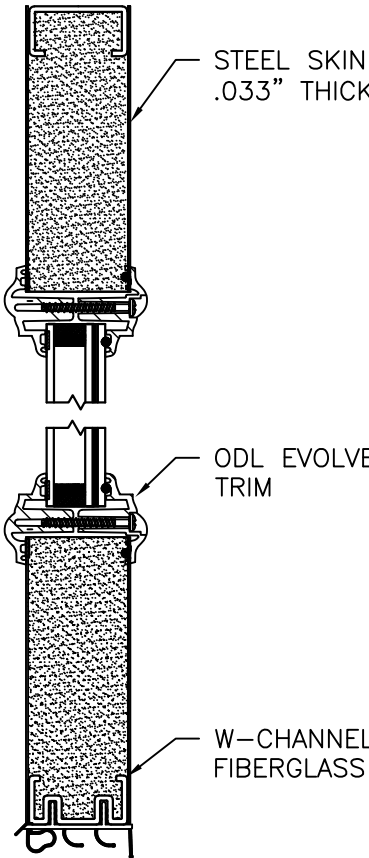
| REVISIONS |                           |          |          |
|-----------|---------------------------|----------|----------|
| REV       | DESCRIPTION               | DATE     | APPROVED |
| J         | REVISED HARDWARE SCHEDULE | 09/10/26 | R.L.     |



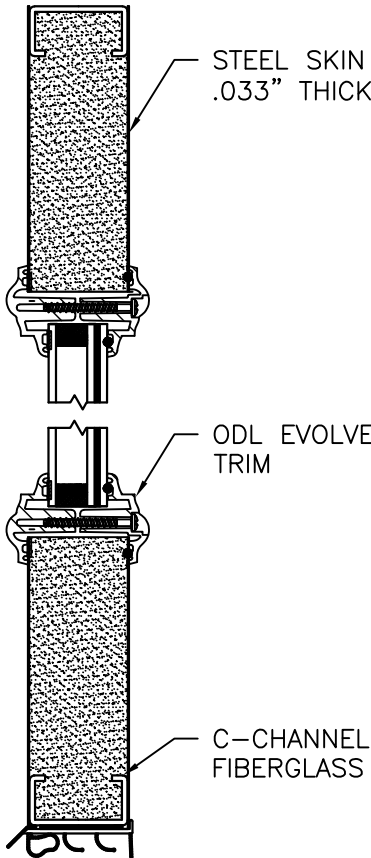
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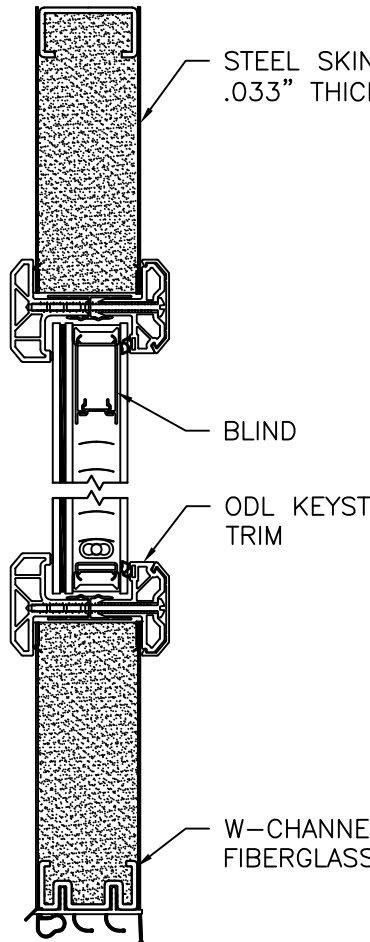
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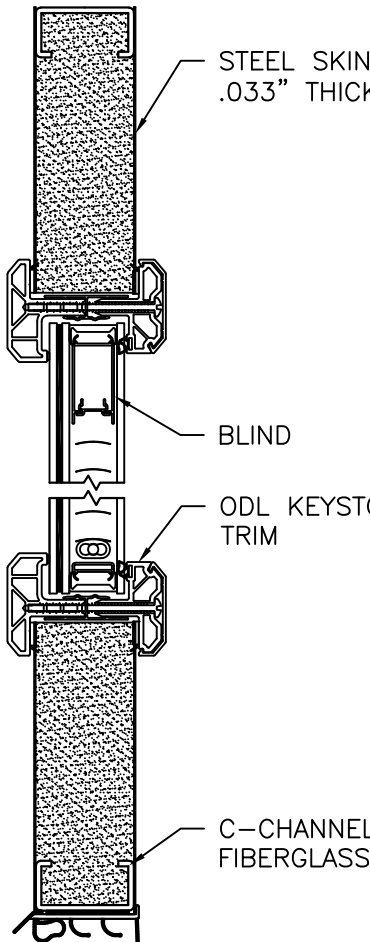
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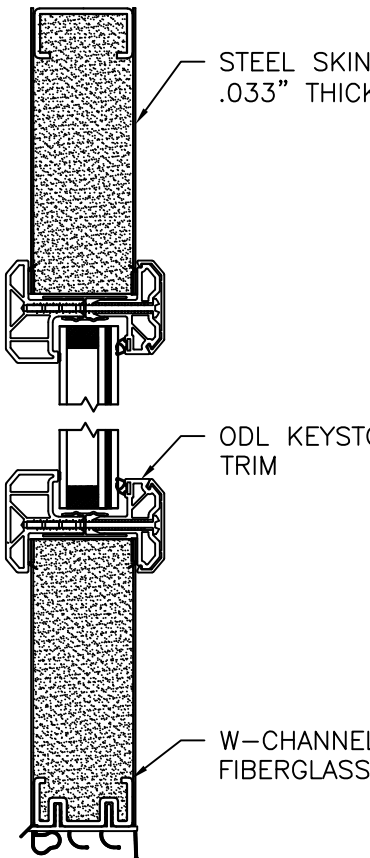
PANEL OPTION 14



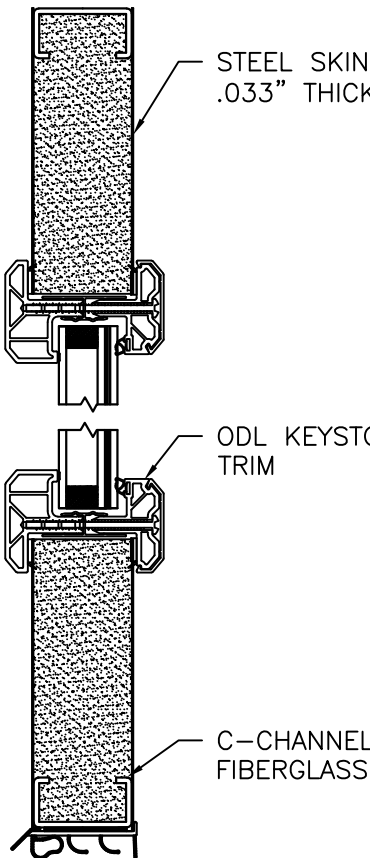
PANEL OPTION 15



PANEL OPTION 16



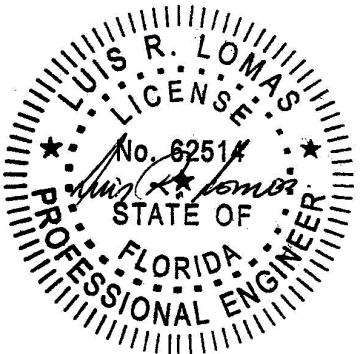
PANEL OPTION 17



PANEL OPTION 18

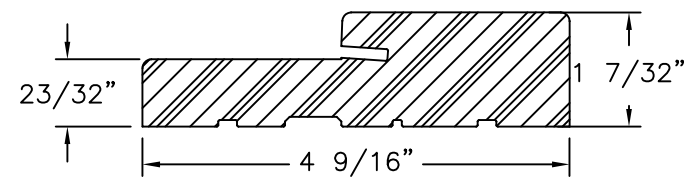
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|---------------------------------------------------------------------------------------------------|---------------------|-------------------|
| PROVIA, LLC.<br>2150 STATE ROUTE 39 WEST<br>SUGARCREEK, OH 44681                                  |                     |                   |
| STEEL INSWING GLAZED SINGLE DOOR<br>W/SIDELITES - IMPACT<br>APPROVED SLABS                        |                     |                   |
| DRAWN:<br>A.P.                                                                                    | DWG NO.<br>08-01937 | REV<br>J          |
| SCALE<br>NTS                                                                                      | DATE<br>03/20/13    | SHEET<br>13 OF 14 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                   |

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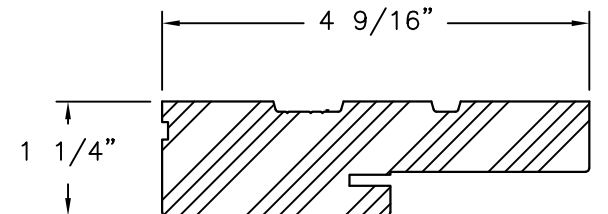


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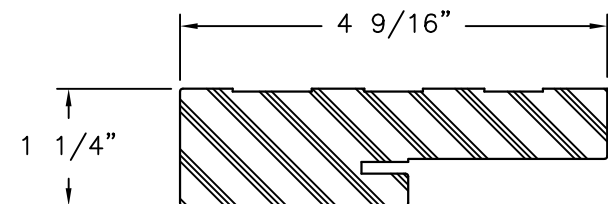
| REVISIONS |                           |          |          |
|-----------|---------------------------|----------|----------|
| REV       | DESCRIPTION               | DATE     | APPROVED |
| J         | REVISED HARDWARE SCHEDULE | 09/10/26 | R.L.     |



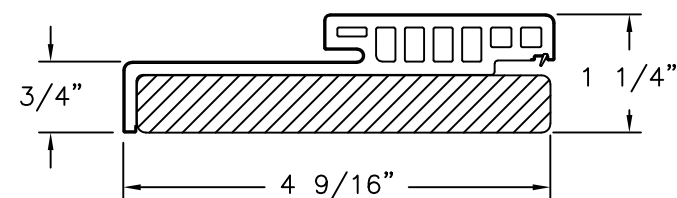
**FRAMESAVER**  
COMPOSITE



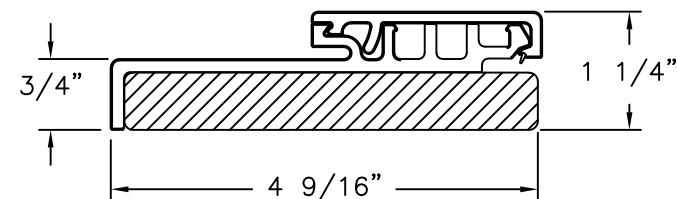
**COMPOSITE FRAME PROFILE**



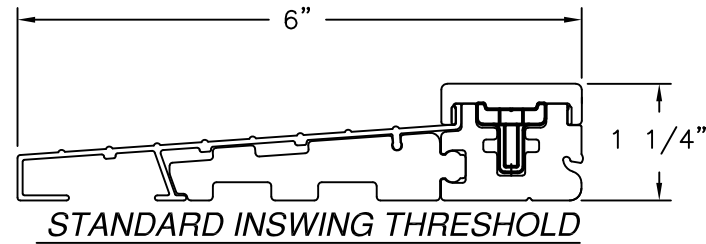
**WOOD FRAME PROFILE**



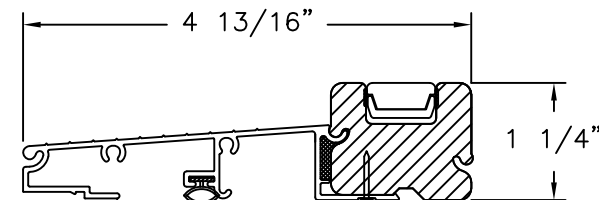
**HYBRID HEAD**  
WOOD/COMPOSITE



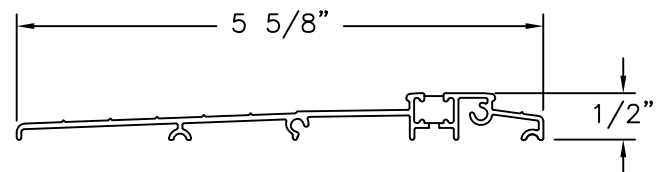
**HYBRID JAMB**  
WOOD/COMPOSITE



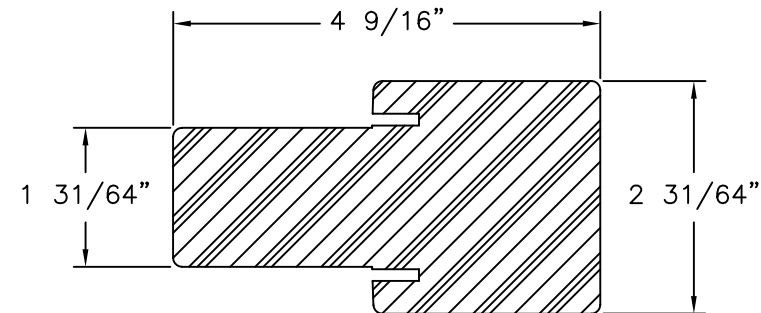
**STANDARD INSWING THRESHOLD**



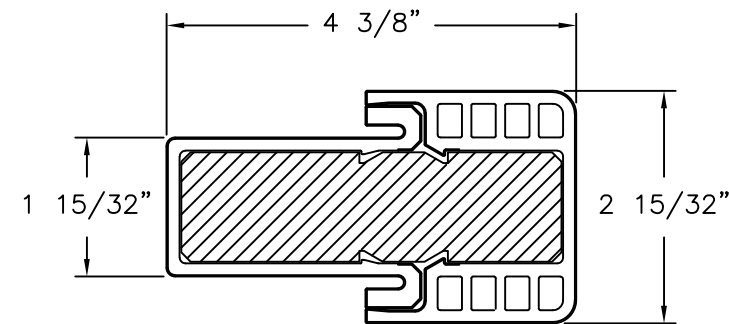
**SAHARA INSWING THRESHOLD**



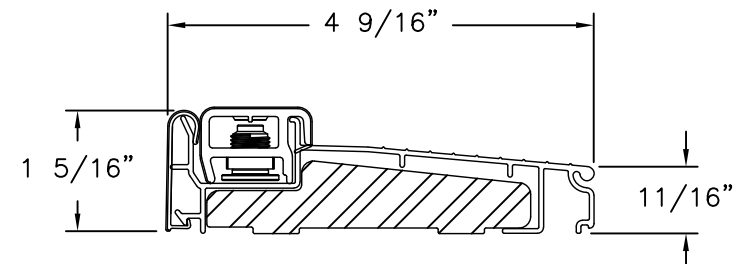
**ADA THRESHOLD**



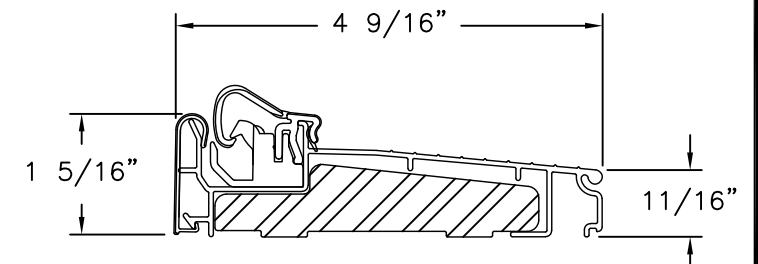
**FAT BOY MULLION**  
COMPOSITE



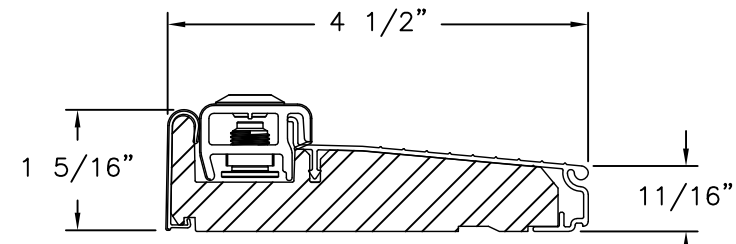
**HYBRID FAT BOY MULLION**  
COMPOSITE



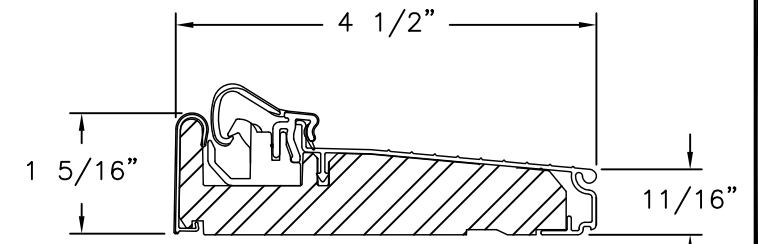
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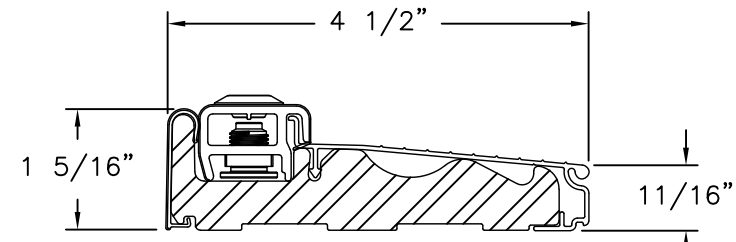
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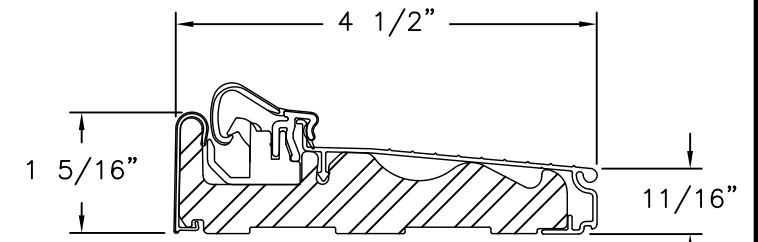
**INSWING SILL ZAI4565F**



**INSWING SILL ZAC4565F**



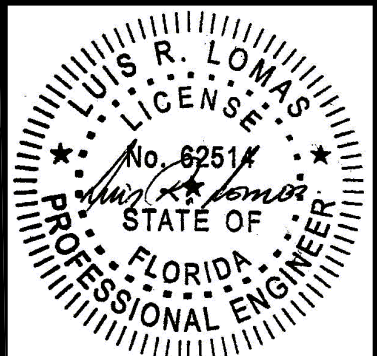
**INSWING SILL ZAILH4565**



**INSWING SILL ZAHLH4565**

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|                                                                                                   |                     |                   |
|---------------------------------------------------------------------------------------------------|---------------------|-------------------|
| PROVIA, LLC.<br>2150 STATE ROUTE 39 WEST<br>SUGARCREEK, OH 44681                                  |                     |                   |
| STEEL INSWING GLAZED SINGLE DOOR<br>W/SIDELITES - IMPACT<br>COMPONENTS                            |                     |                   |
| DRAWN:<br>A.P.                                                                                    | DWG NO.<br>08-01937 | REV<br>J          |
| SCALE<br>NTS                                                                                      | DATE<br>03/20/13    | SHEET<br>14 OF 14 |
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