

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
I	ADDED TRIMS & 5180 HOT MELT BUTYL	08/24/2021	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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. 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. 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.
5. FRAME MATERIAL: WOOD WITH G=.46 MINIMUM SPECIFIC GRAVITY, OR COMPOSITE, OR FRAMESAVER, OR FUSION FRAME.
DOOR SKIN MATERIAL: STEEL .033" THICK (MINIMUM), FIBERGLASS .085" THICK (MINIMUM).
SIDELITE SKIN MATERIAL: STEEL .022" THICK (MINIMUM)
6. SIDELITES AND TRANSOM MUST BE GLAZED PER ASTM E1300, SEE SHEET 12 FOR GLASS DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
8. 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".
9. 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.
10. 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.
11. 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.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. 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 3,192 PSI.
 - C. MASONRY – GROUT FILLED STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM
14. DOOR CONSTRUCTION MAYBE CONTINUOUS HEAD FRAME AND CONTINUOUS THRESHOLD OR BOX CONSTRUCTION.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 4	ELEVATIONS AND APPROVED CONFIGURATIONS
5	ANCHORING LAYOUTS
6 – 11	INSTALLATION DETAILS
12	GLAZING DETAILS
13 – 17	APPROVED SLABS, MULLION DETAILS AND COMPONENTS

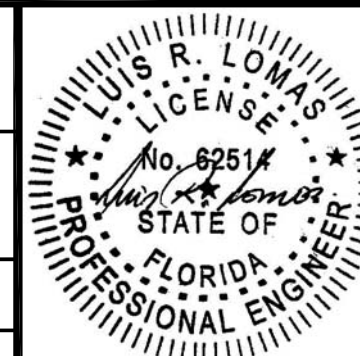
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM – IMPACT
NOTES

DRAWN: J.L.	DWG NO. 08-02040	REV I
SCALE NTS	DATE 04/23/13	SHEET 1 OF 17

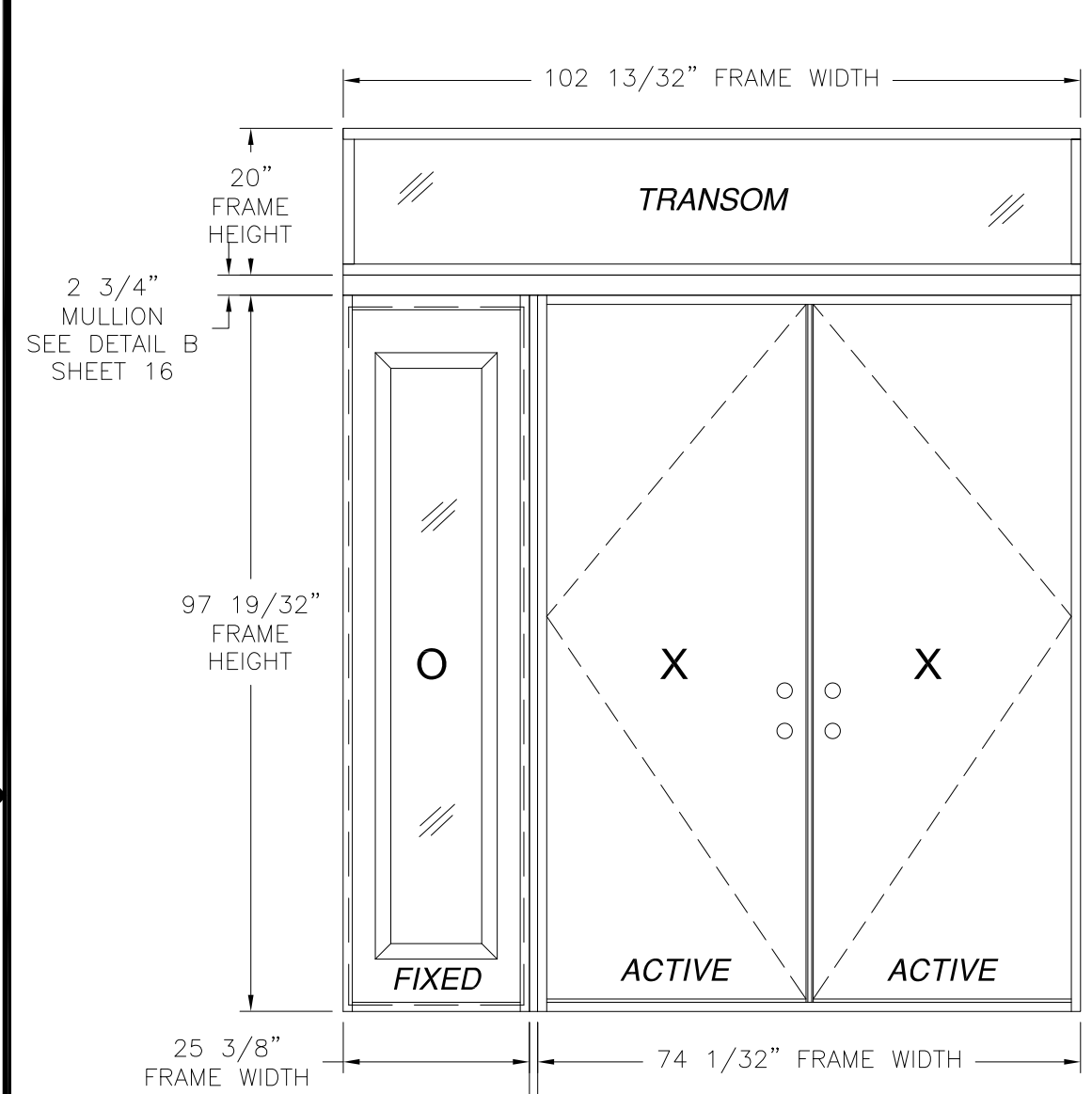
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

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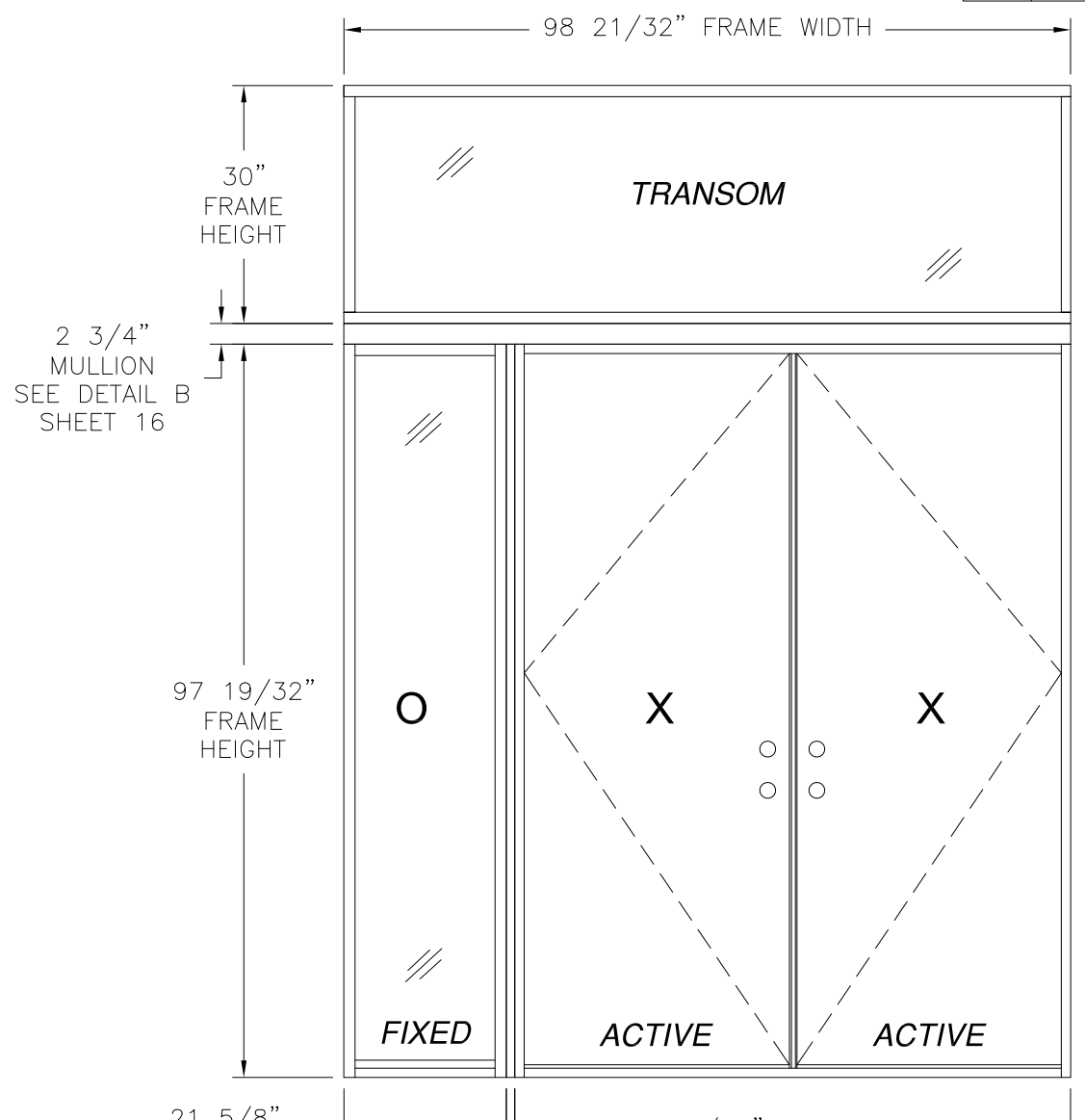


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DOUBLE DOOR W/ STD SIDELITE AND TRANSOM
 EXTERIOR VIEW
 OXX SHOWN XXO ALSO APPROVED



DOUBLE DOOR W/ DIRECT SET SIDELITE AND TRANSOM
 EXTERIOR VIEW
 OXX SHOWN XXO ALSO APPROVED

3/8" MULLION MINIMUM
 SEE NOTES 1 AND 2 THIS SHEET AND DETAIL A SHEET 16

3/8" MULLION MINIMUM
 SEE NOTES 1 AND 2 THIS SHEET AND DETAIL A SHEET 16

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

35 3/4" x 94 15/16" PANEL SIZE SHOWN. OTHER SIZES ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 23.56 FT²

- NOTES:
1. MAXIMUM ALLOWED BUILDUP TO BE 3" AT VERTICAL MULLION.
 2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED.

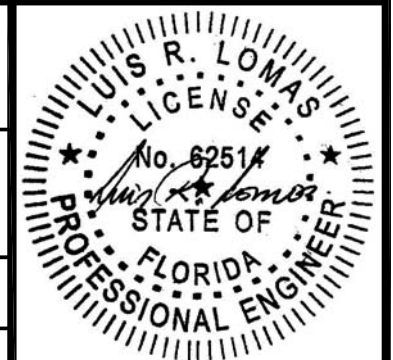
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 W/SIDELITES & TRANSOM - IMPACT
 ELEVATIONS

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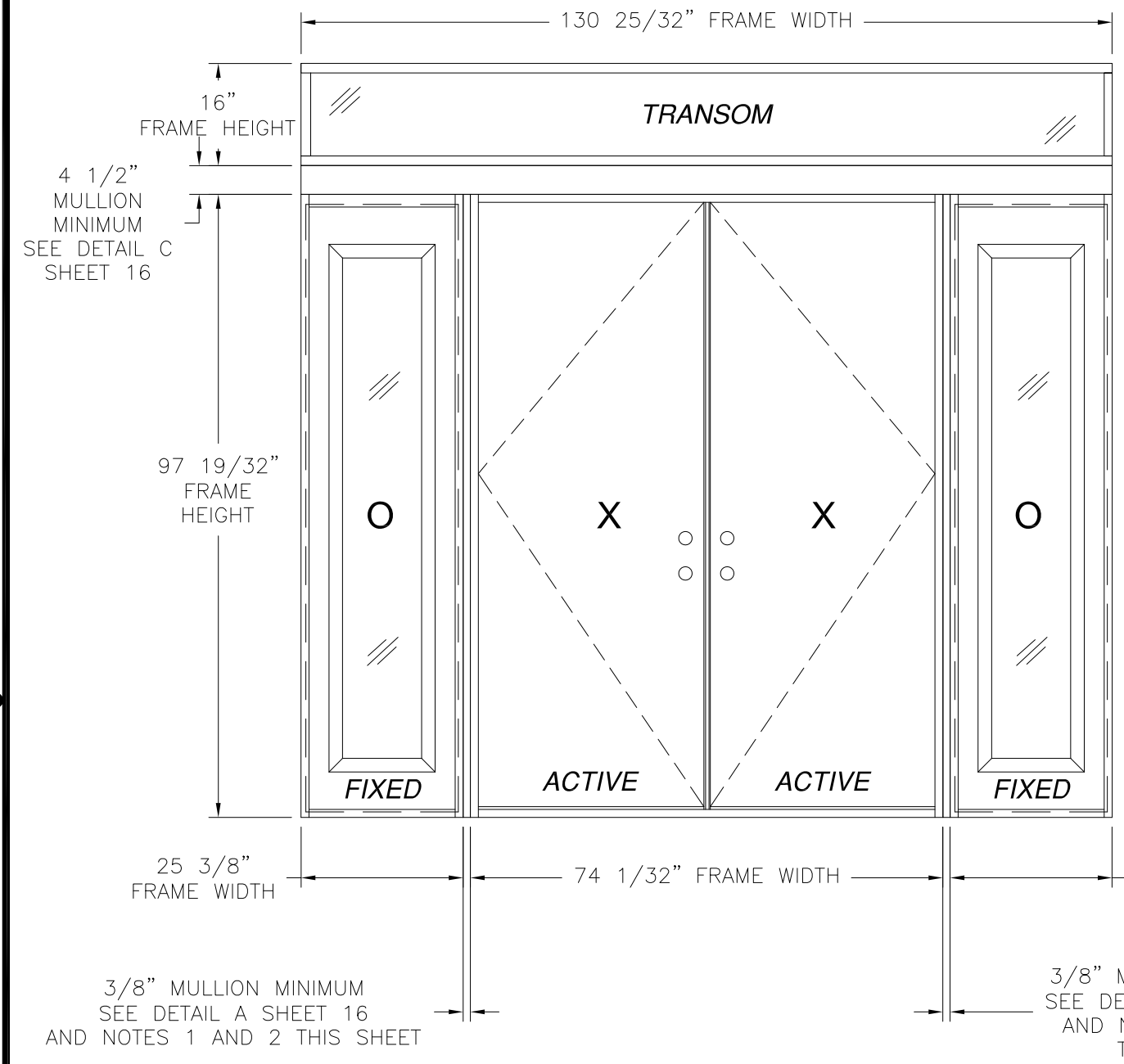
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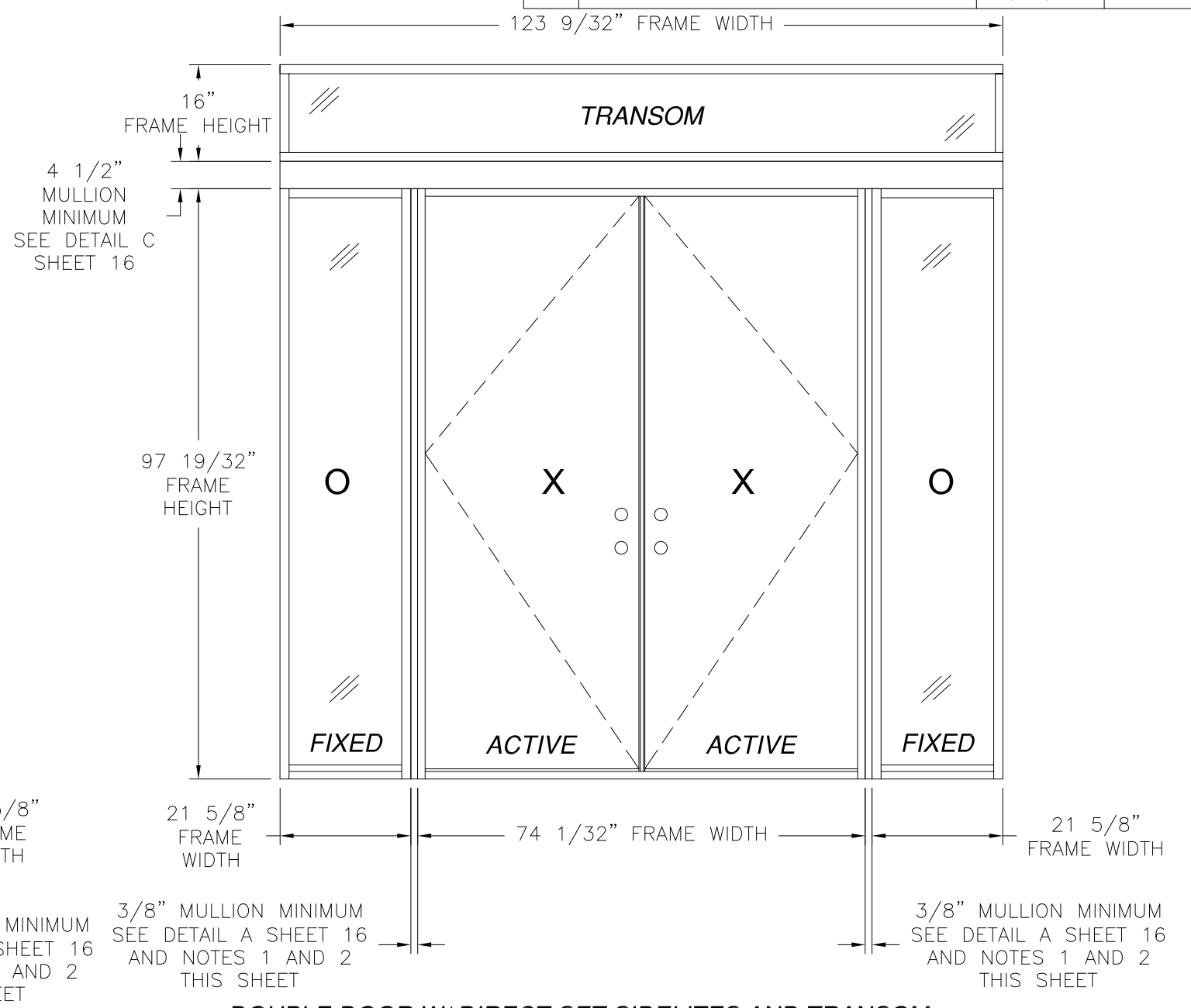


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EXTERIOR VIEW



DOUBLE DOOR W/ DIRECT SET SIDELITES AND TRANSOM
EXTERIOR VIEW

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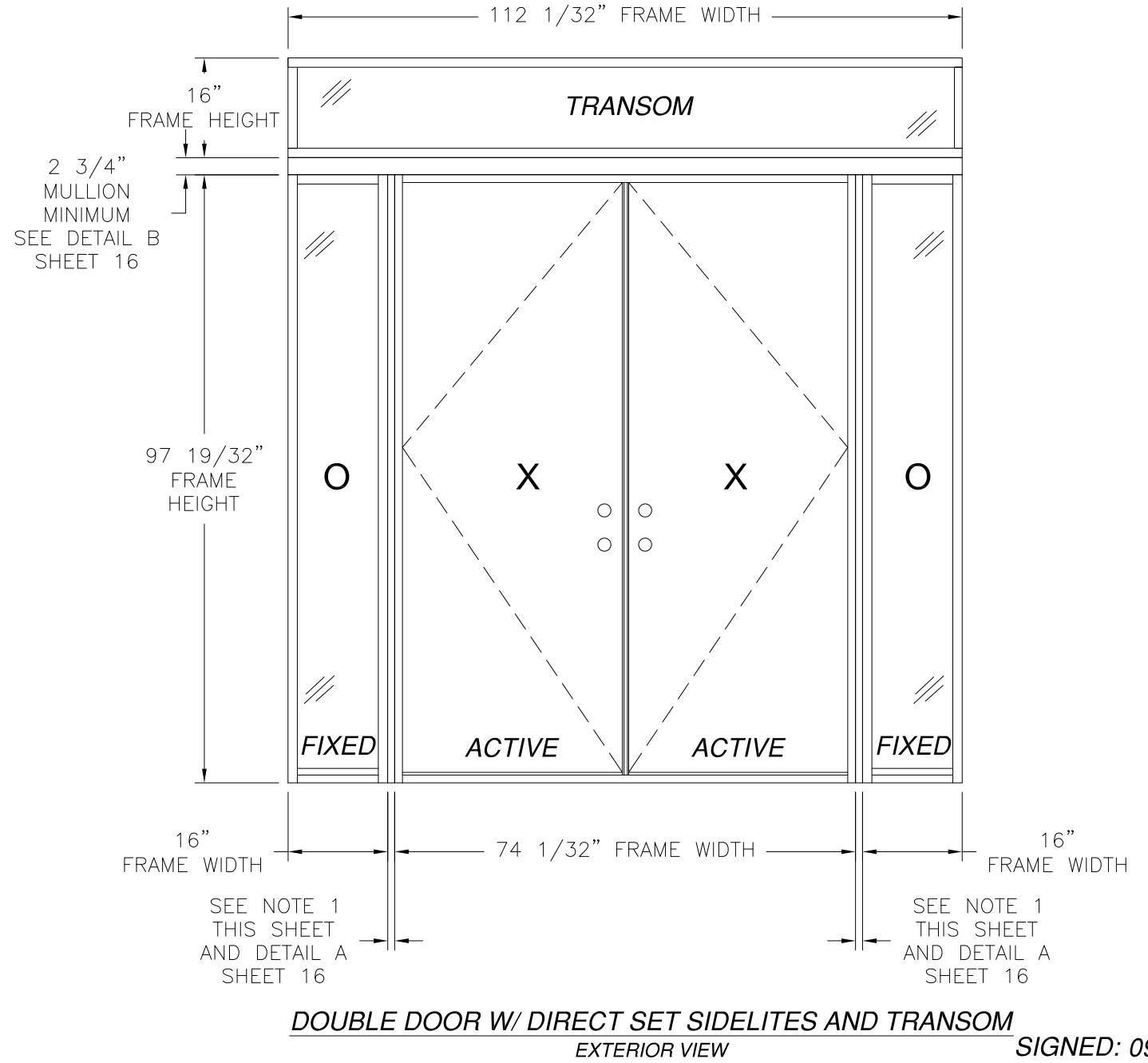
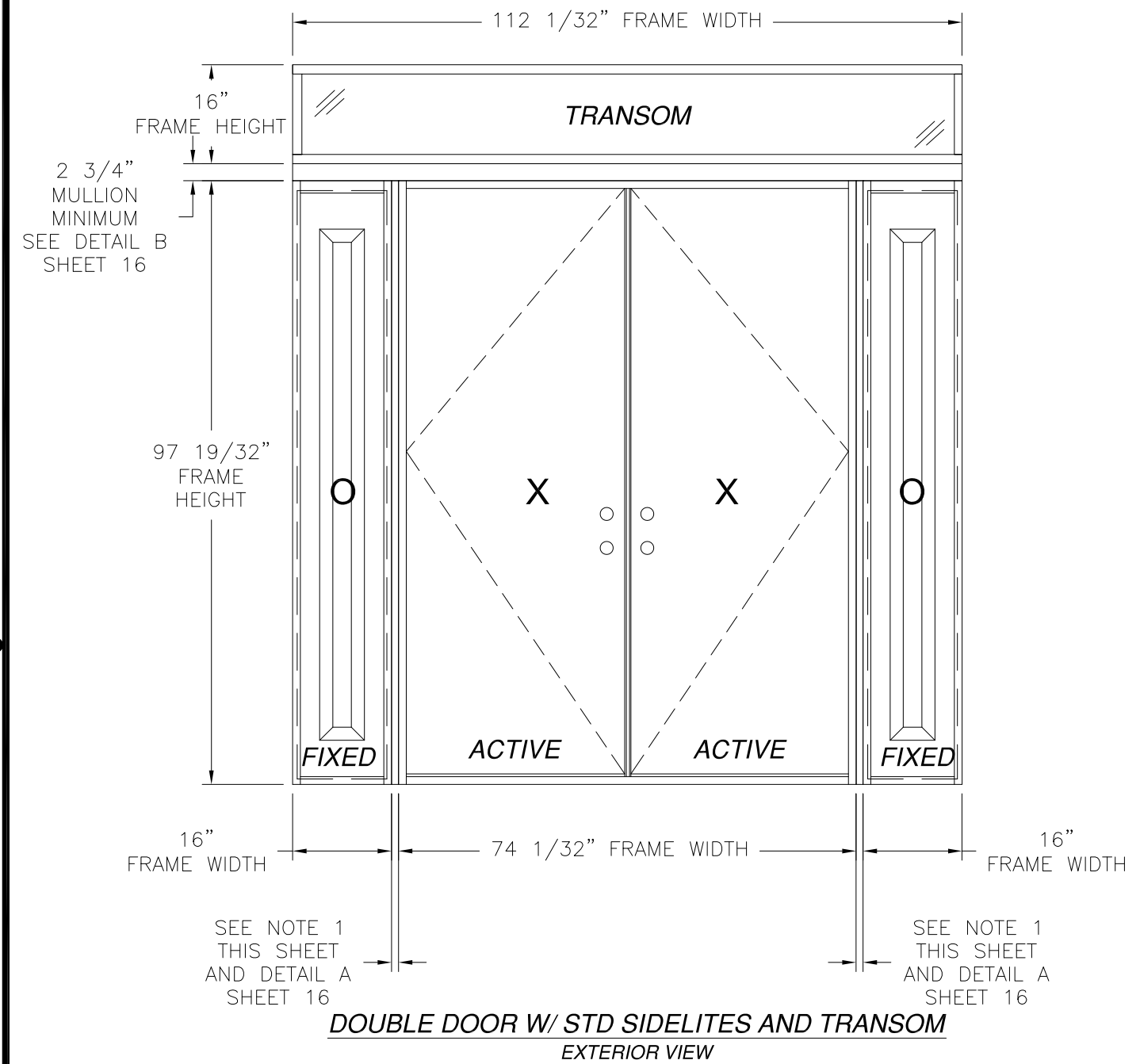
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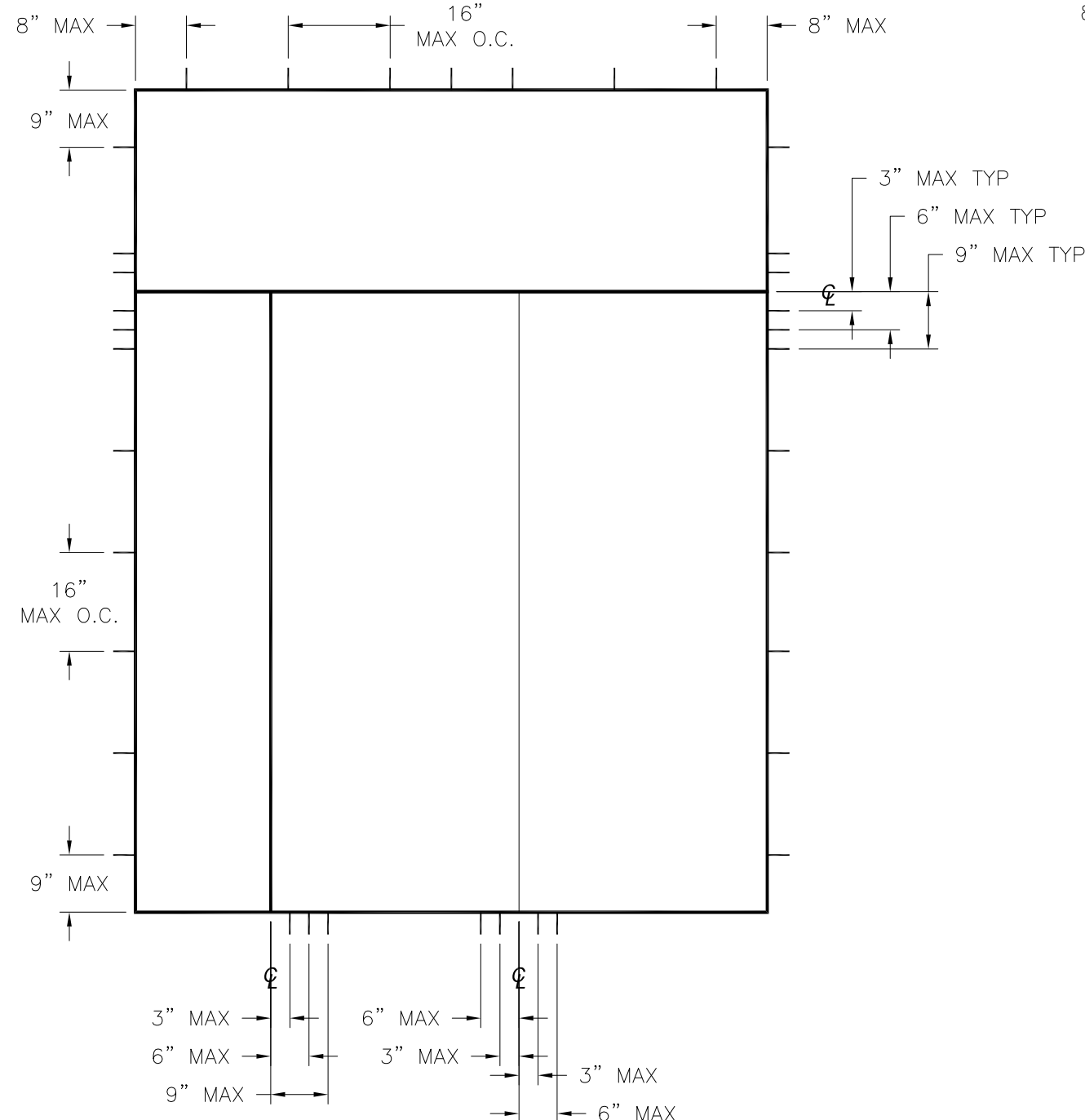
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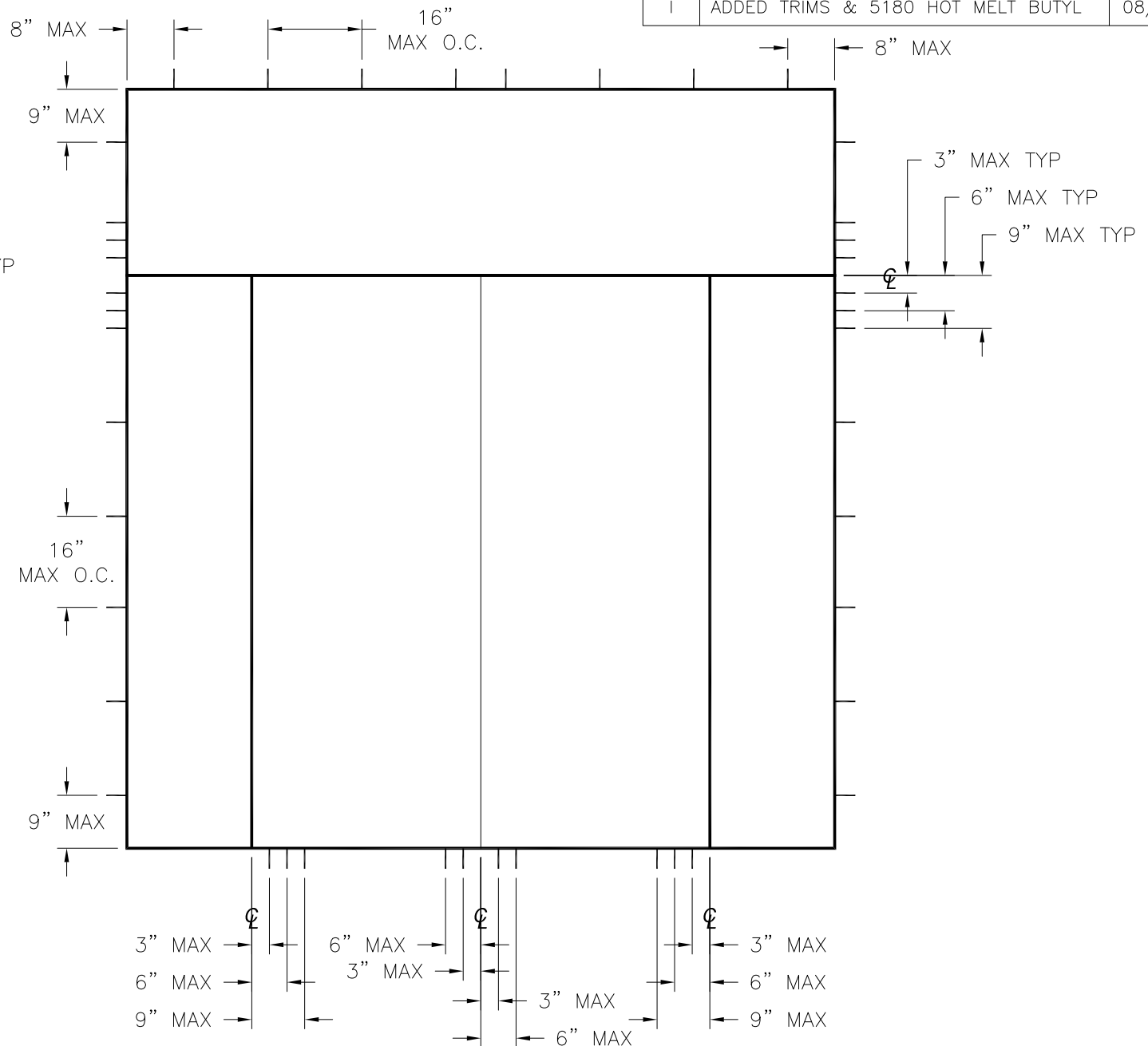
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DOUBLE DOOR W/SIDELITE AND TRANSOM
ANCHORING LAYOUT



DOUBLE DOOR W/SIDELITES & TRANSOM
ANCHORING LAYOUT

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

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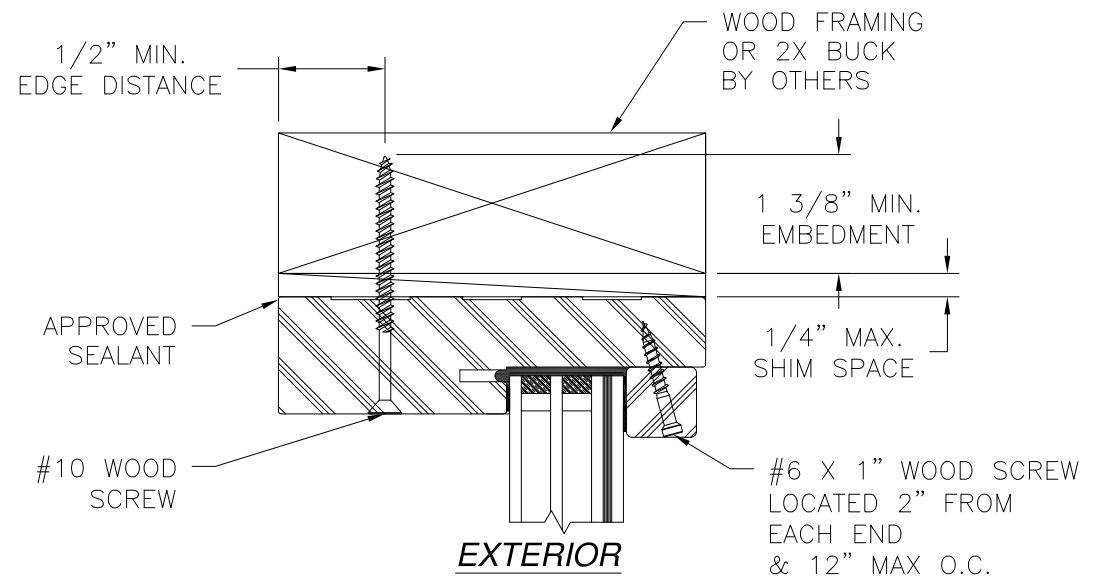
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ANCHORING LAYOUTS

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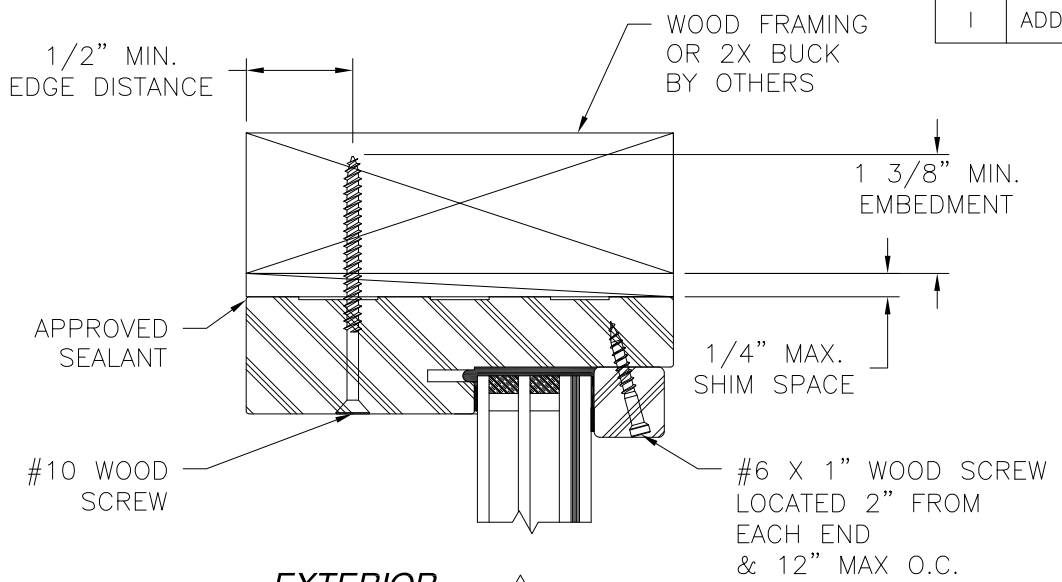
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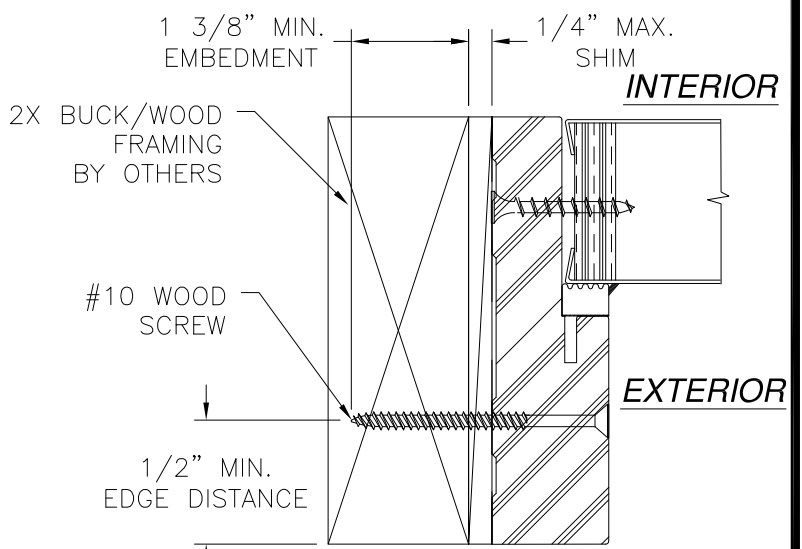
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EXTERIOR



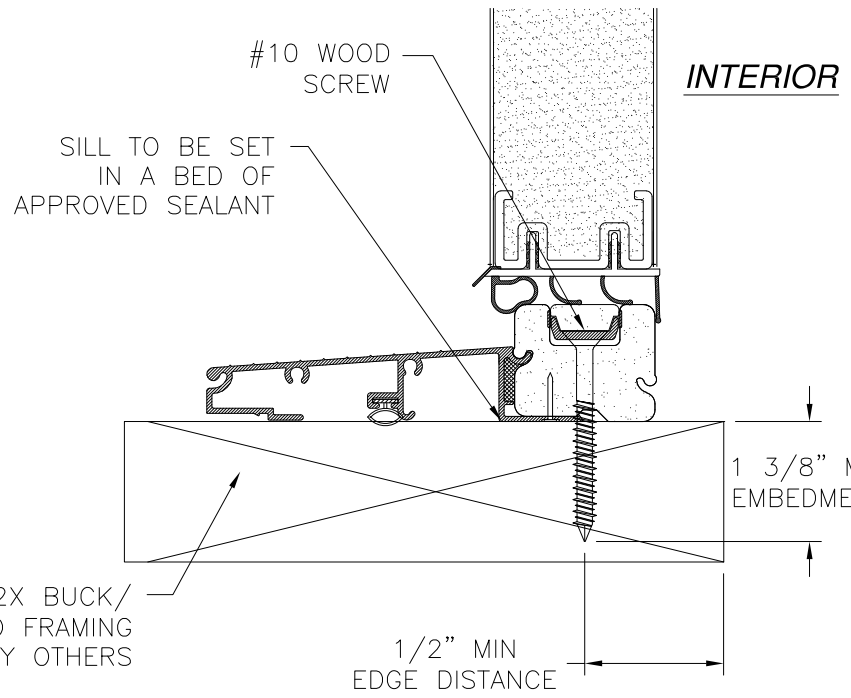
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INTERIOR

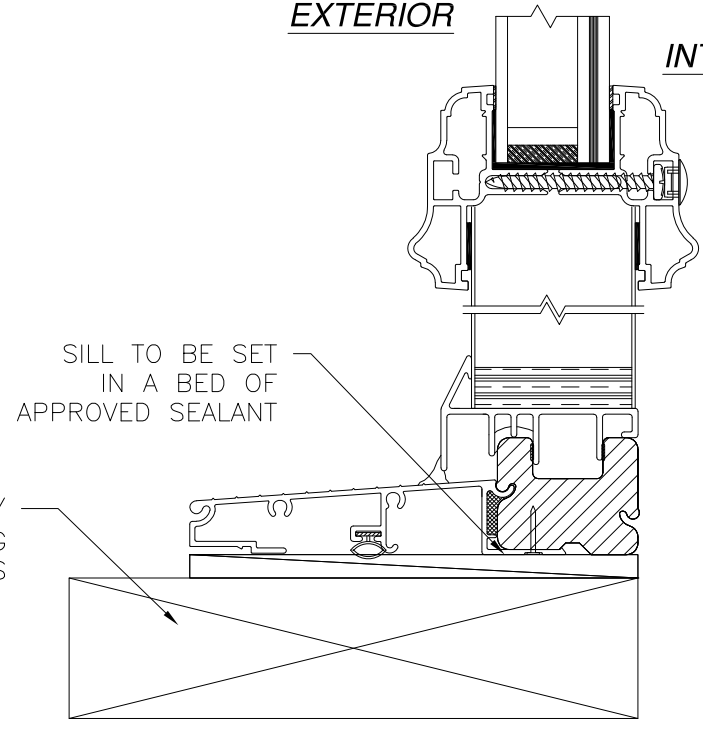
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HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



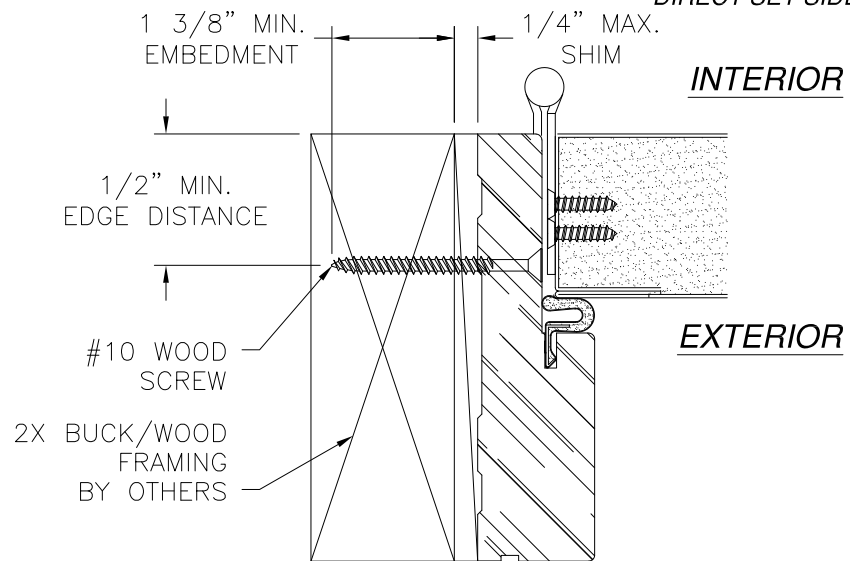
VERTICAL CROSS SECTION

DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING



VERTICAL CROSS SECTION

SIDELITE AND TRANSOM INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



INTERIOR

EXTERIOR

HORIZONTAL CROSS SECTION

DOOR INSTALLATION - 2X BUCK/WOOD FRAMING

SIGNED: 09/08/2021

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

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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM - IMPACT
INSTALLATION DETAILS

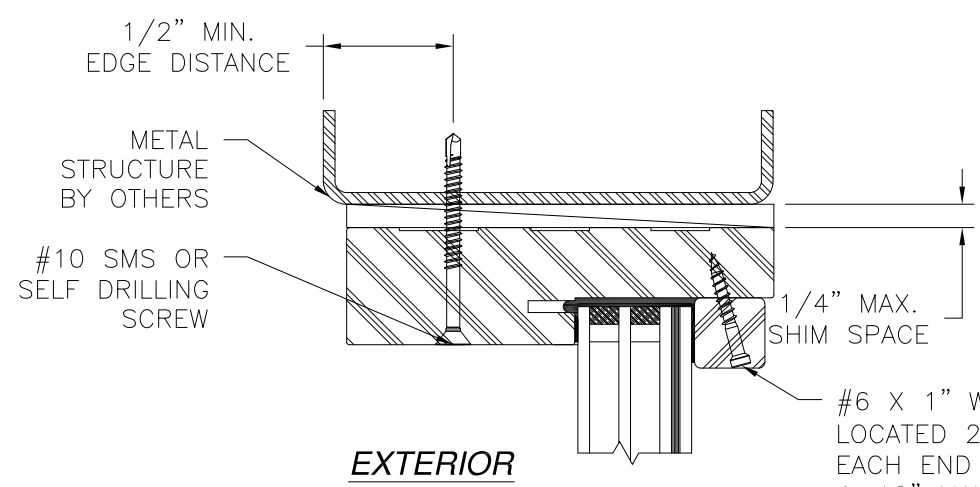
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434-688-0609 rllomas@rlomaspe.com

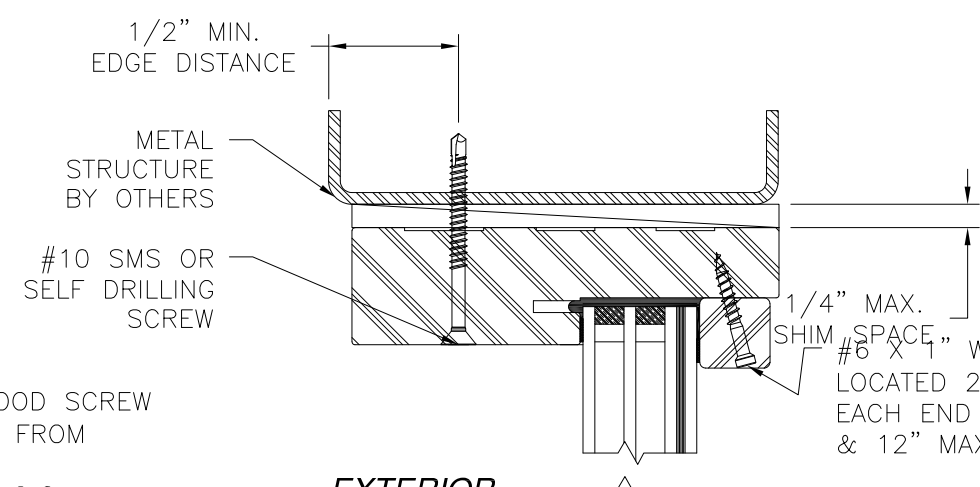
L. ROBERTO LOMAS P.E.
No. 62514
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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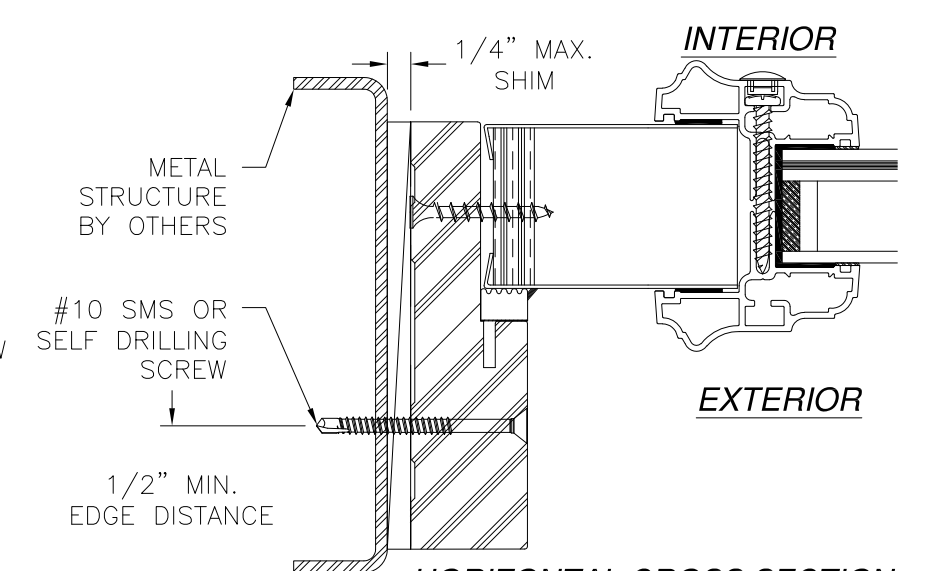
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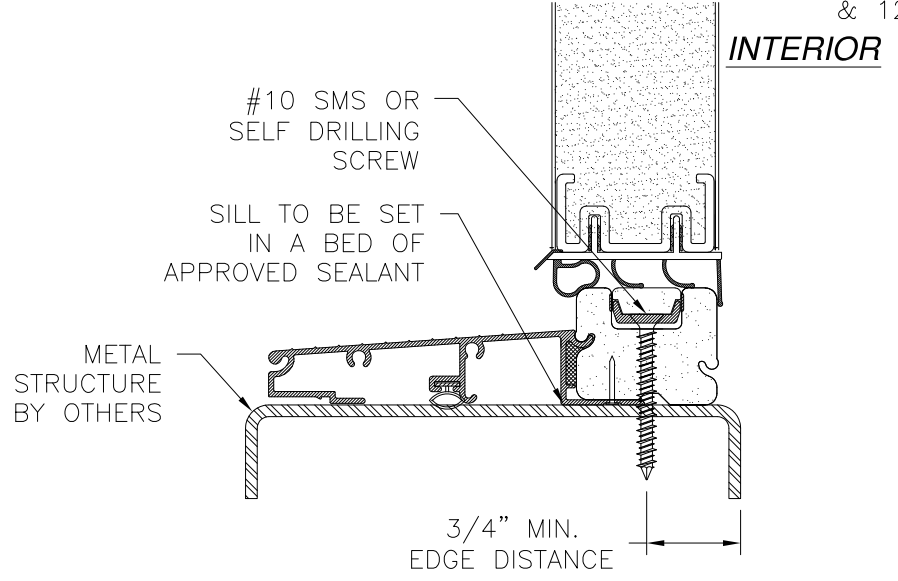
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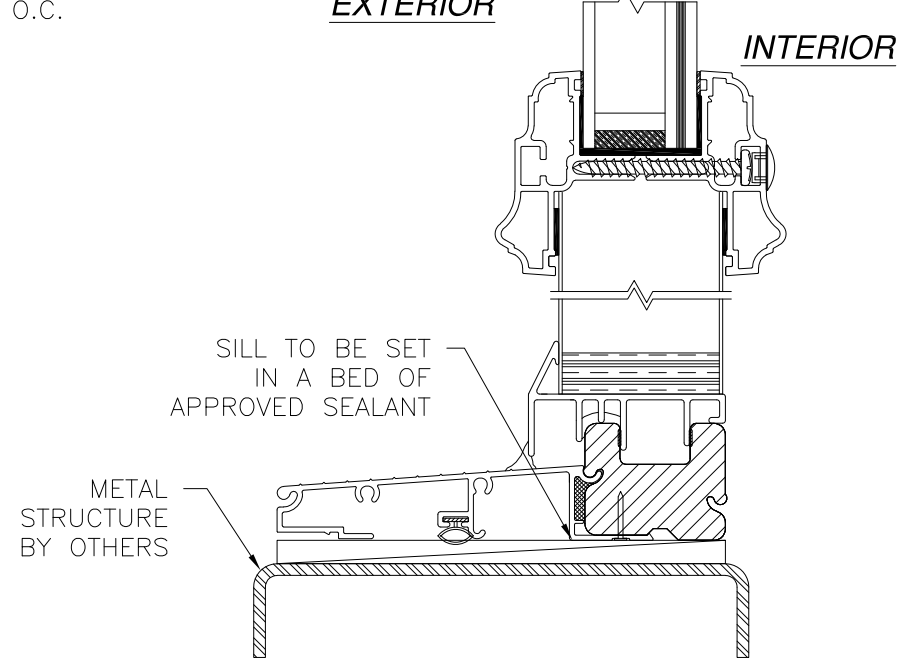
INTERIOR

EXTERIOR

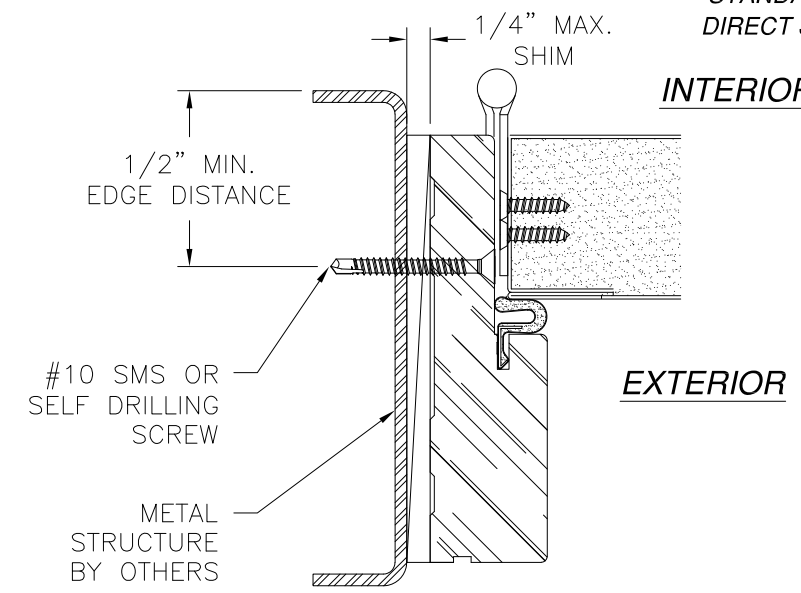
**HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION METAL STRUCTURE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR**



**VERTICAL CROSS SECTION
DOOR AND TRANSOM INSTALLATION METAL STRUCTURE
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR**



**VERTICAL CROSS SECTION
SIDELITE AND TRANSOM INSTALLATION METAL STRUCTURE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR**



INTERIOR

EXTERIOR

**HORIZONTAL CROSS SECTION
DOOR INSTALLATION METAL STRUCTURE**

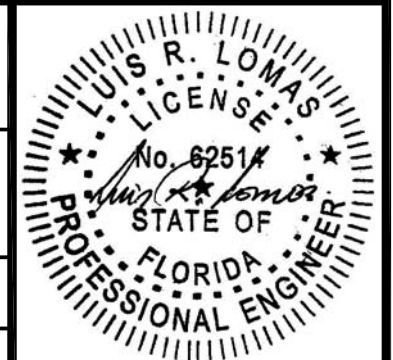
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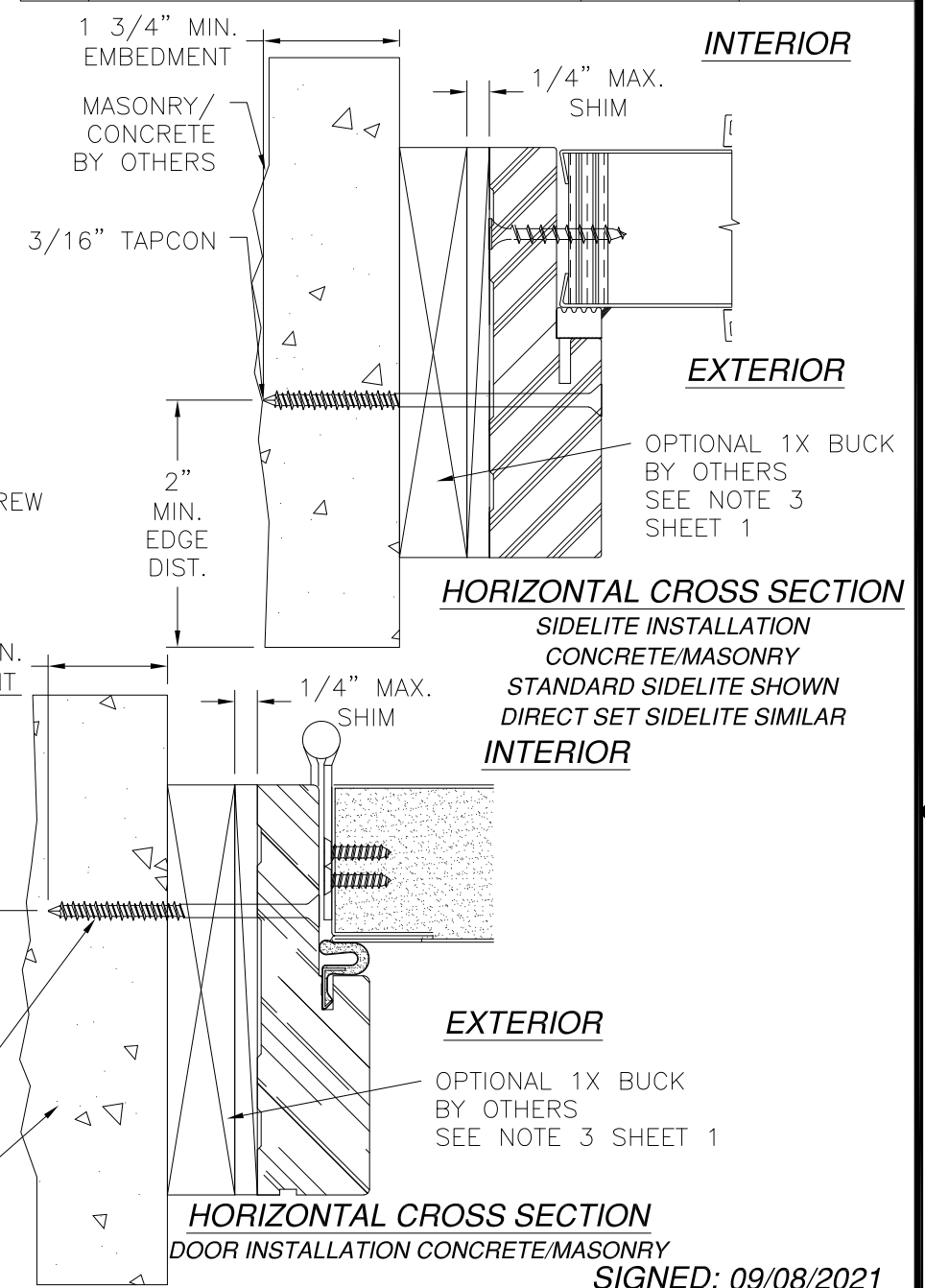
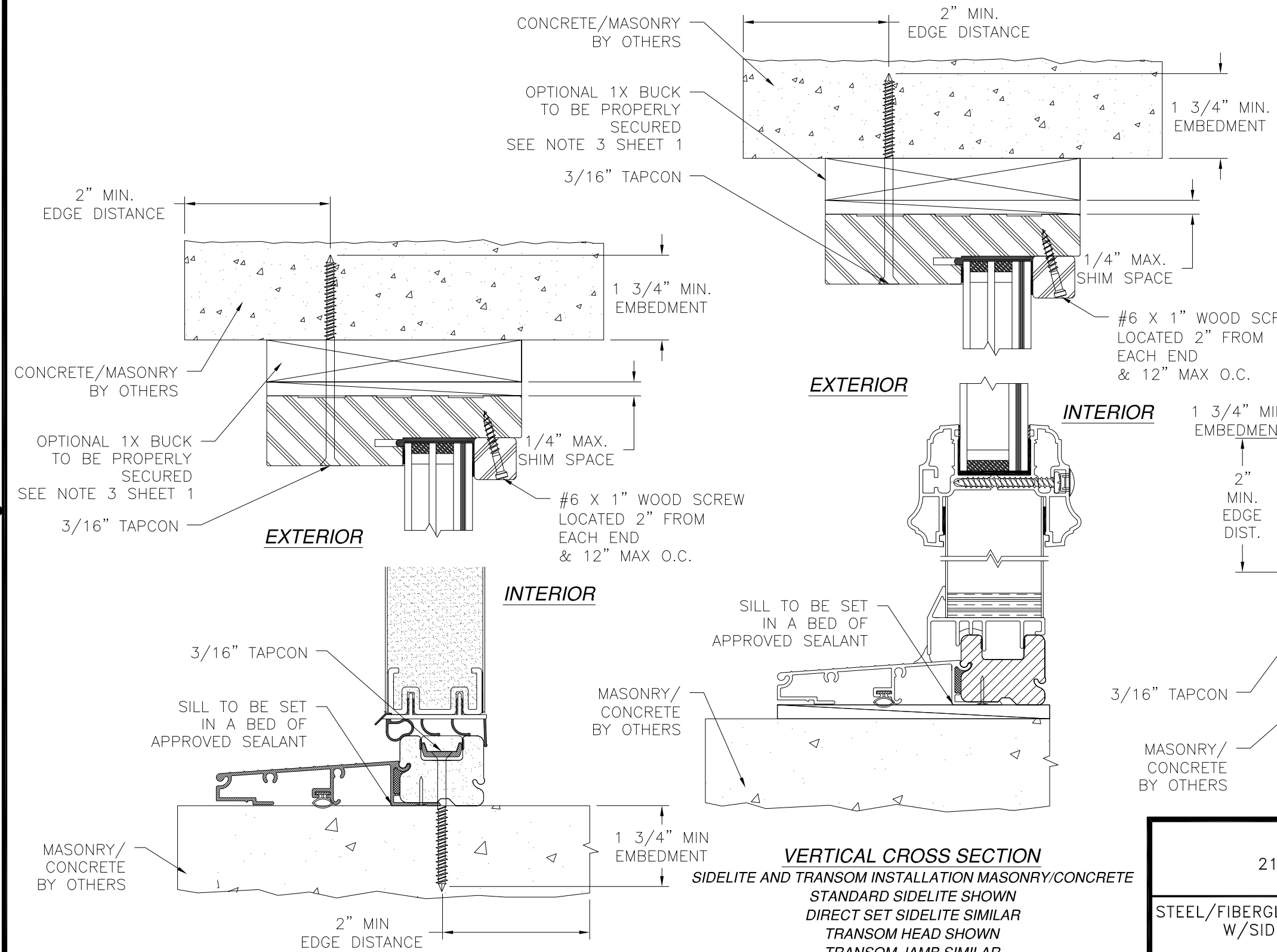
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VERTICAL CROSS SECTION
 SIDELITE AND TRANSOM INSTALLATION MASONRY/CONCRETE
 STANDARD SIDELITE SHOWN
 DIRECT SET SIDELITE SIMILAR
 TRANSOM HEAD SHOWN
 TRANSOM JAMB SIMILAR

VERTICAL CROSS SECTION
 DOOR AND TRANSOM INSTALLATION MASONRY/CONCRETE

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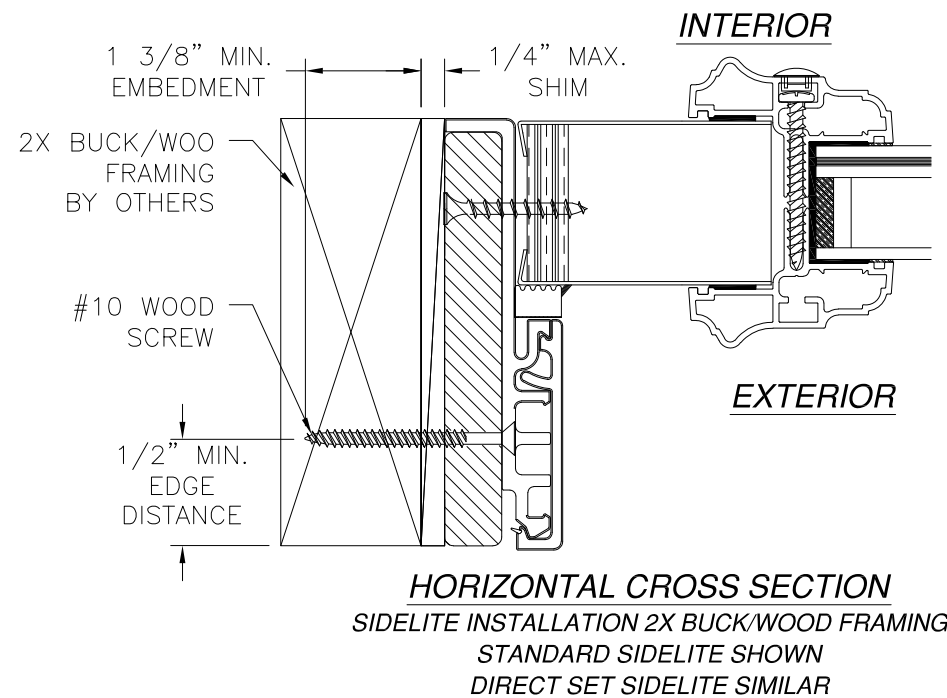
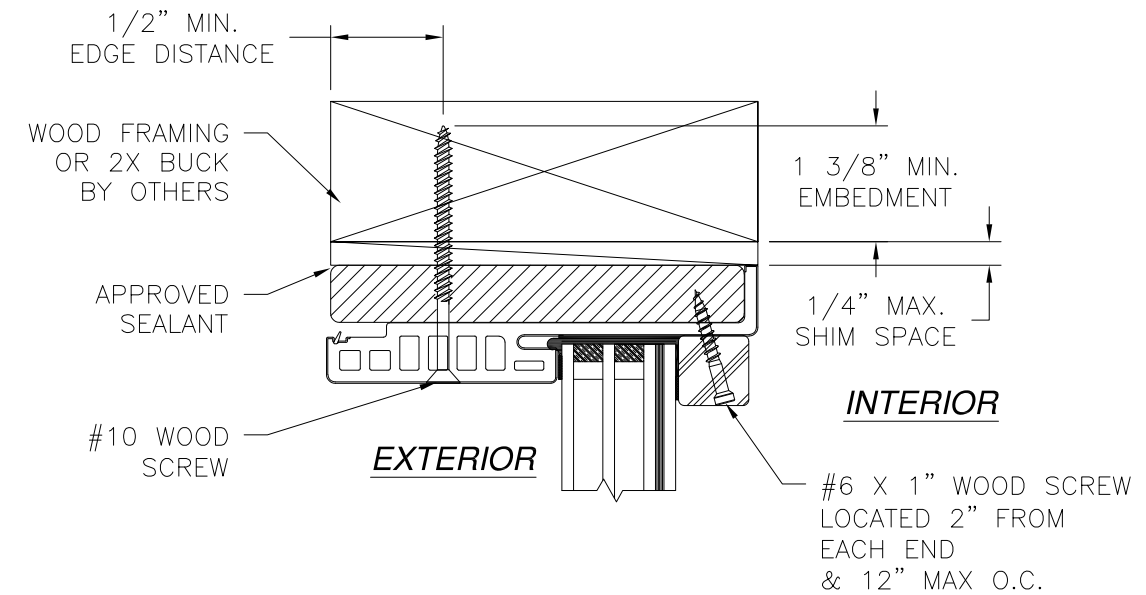
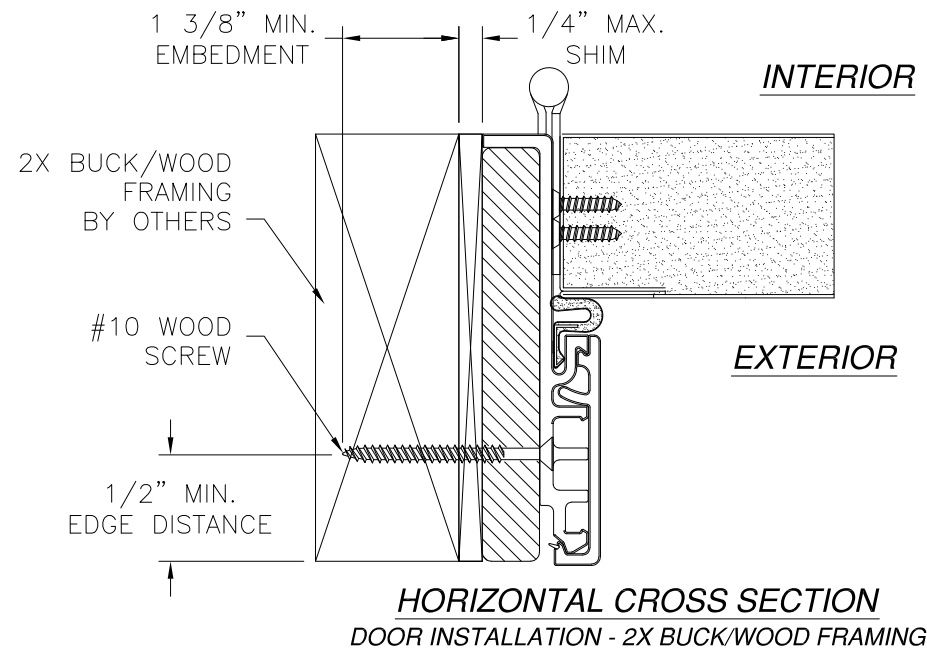
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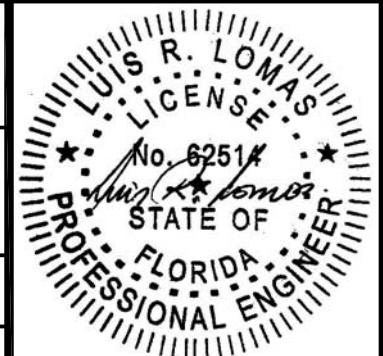


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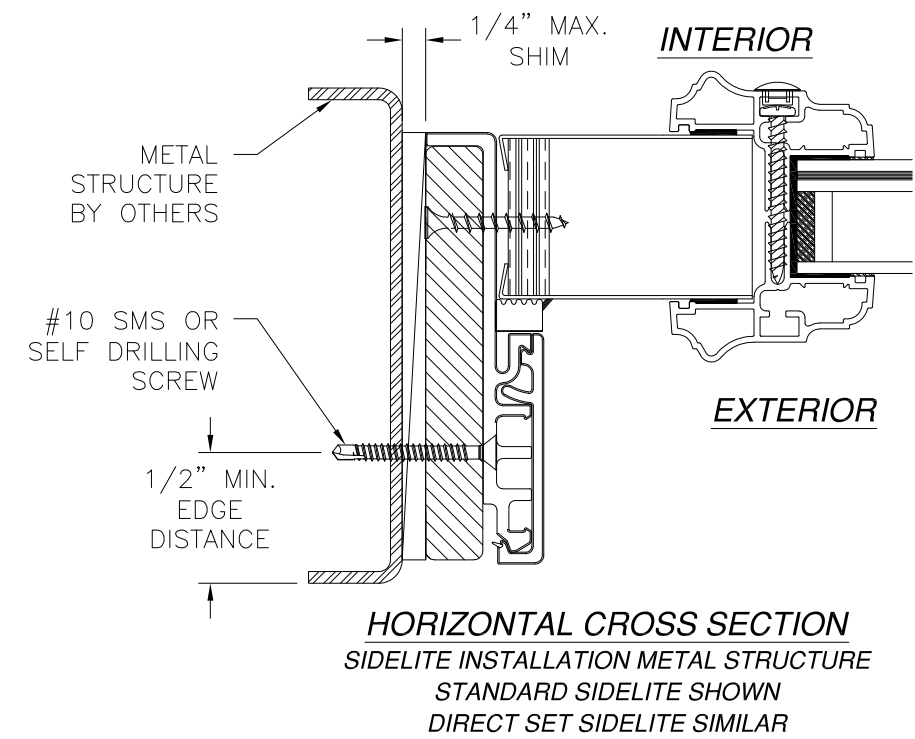
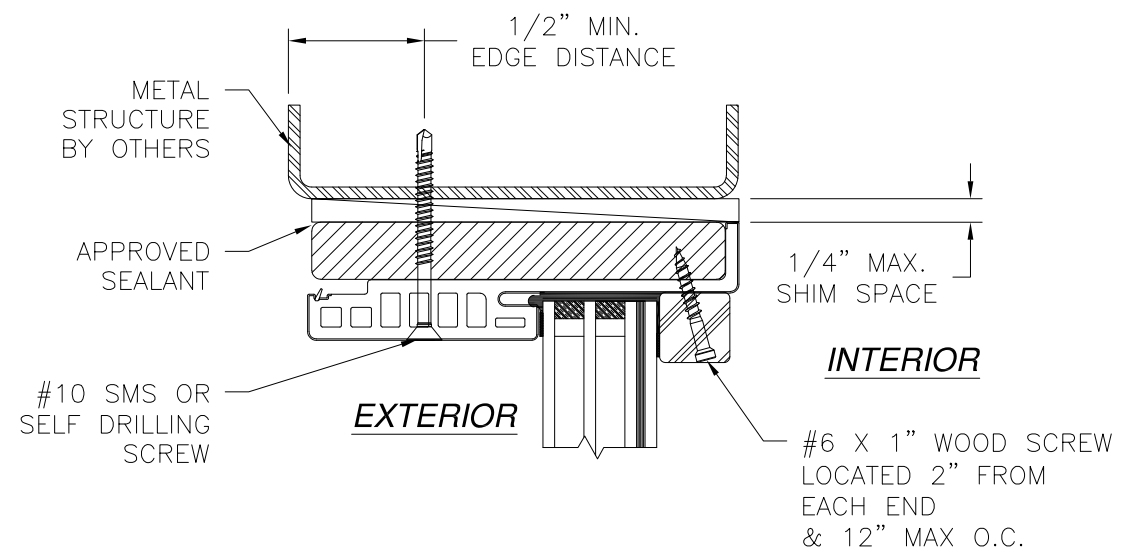
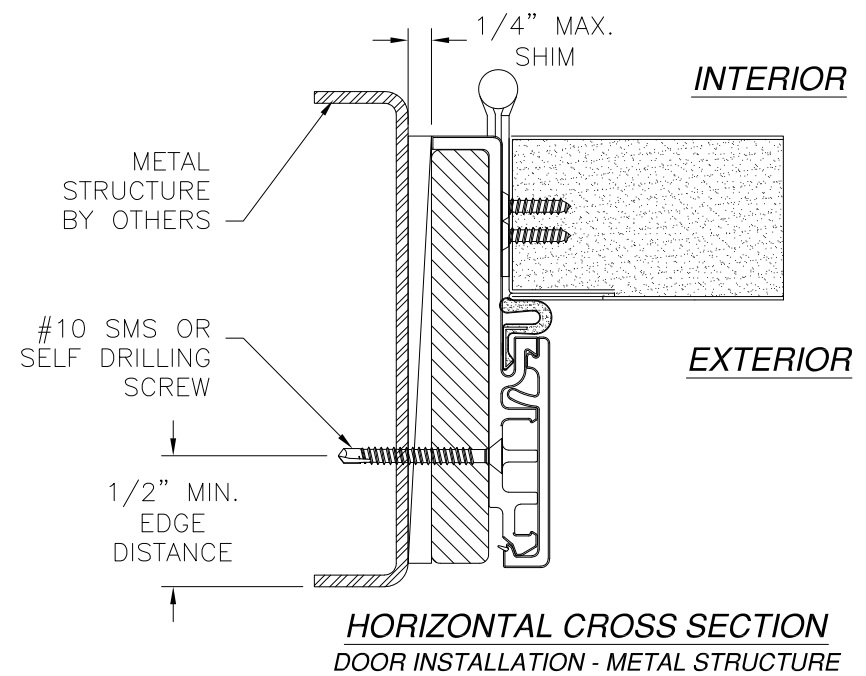
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 INSTALLATION DETAILS W/FUSION FRAME

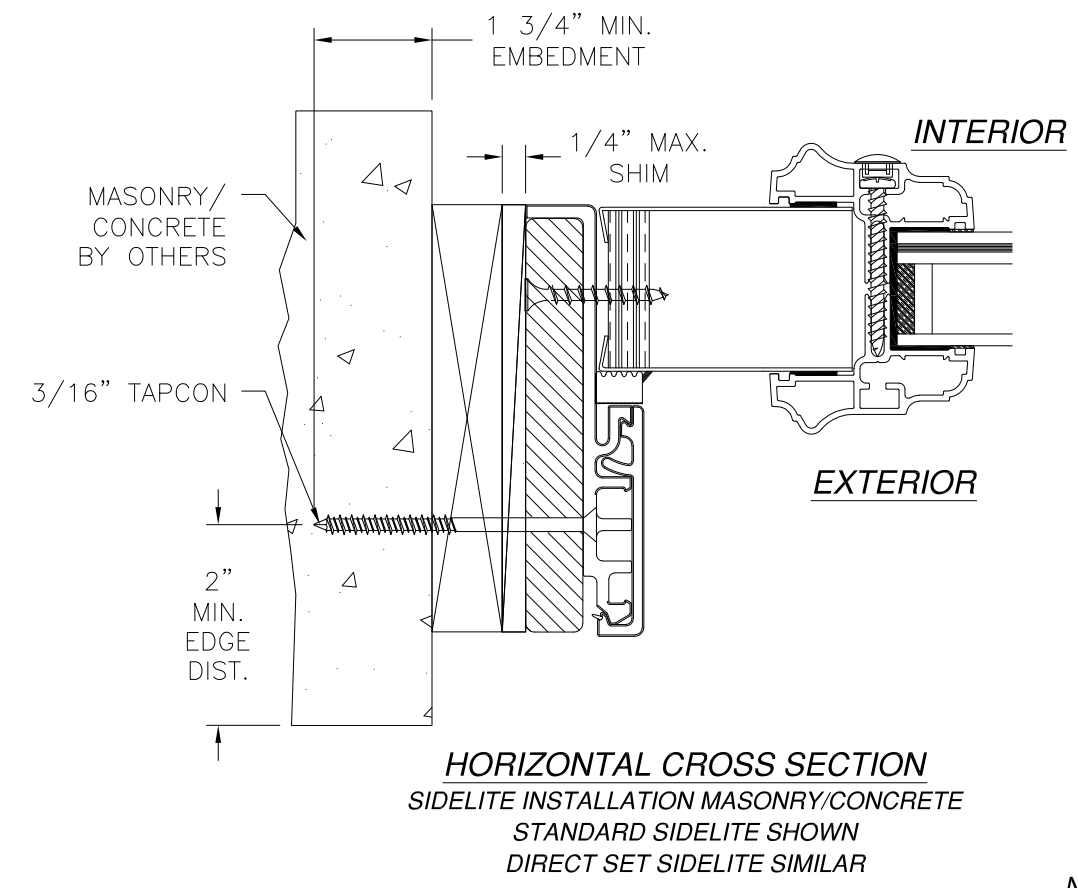
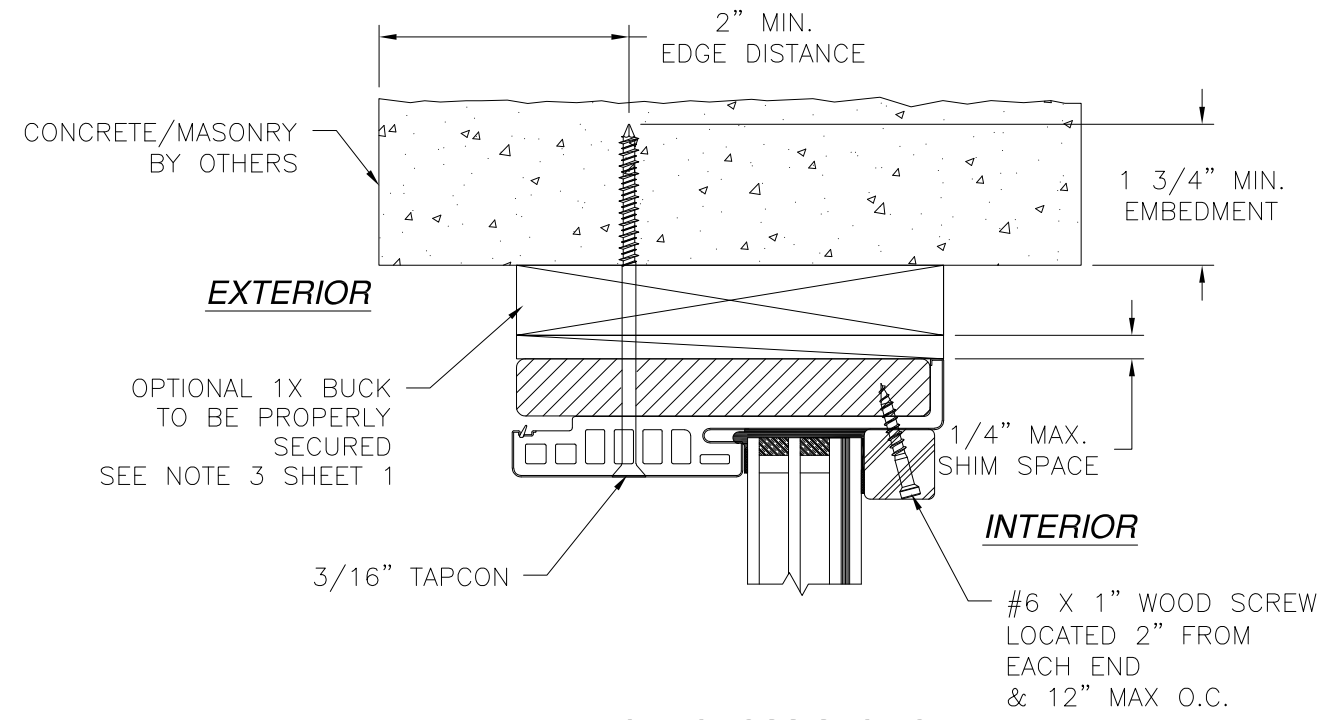
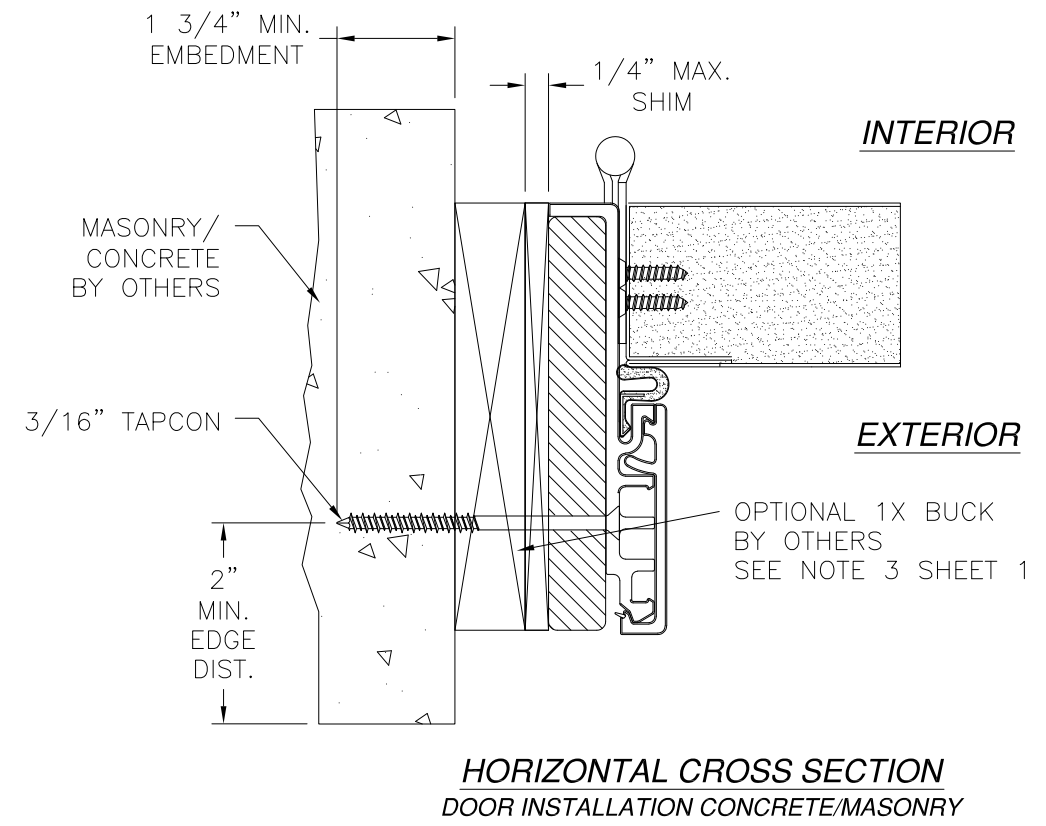
DRAWN: J.L.	DWG NO. 08-02040	REV I
SCALE NTS	DATE 04/23/13	SHEET 10 OF 17

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



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
I	ADDED TRIMS & 5180 HOT MELT BUTYL	08/24/2021	R.L.



- 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

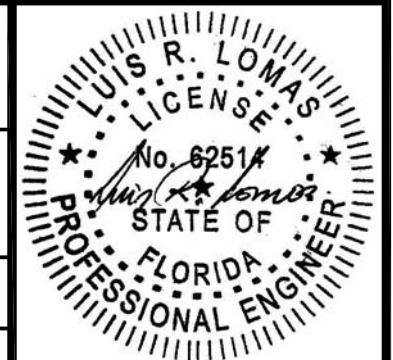
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM - IMPACT
INSTALLATION DETAILS W/FUSION FRAME

DRAWN: J.L.	DWG NO. 08-02040	REV I
SCALE NTS	DATE 04/23/13	SHEET 11 OF 17

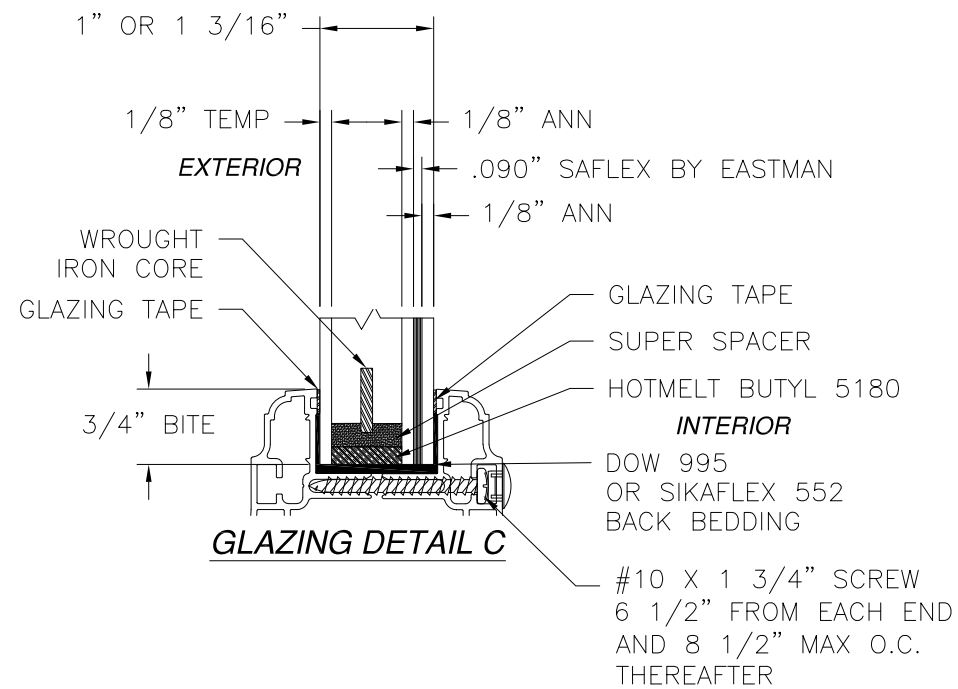
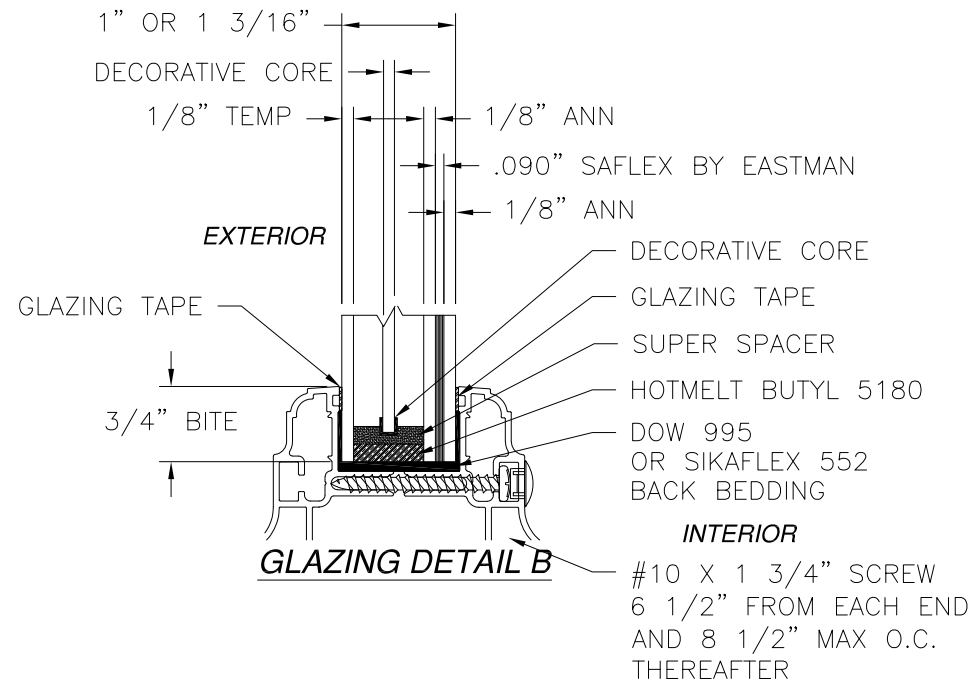
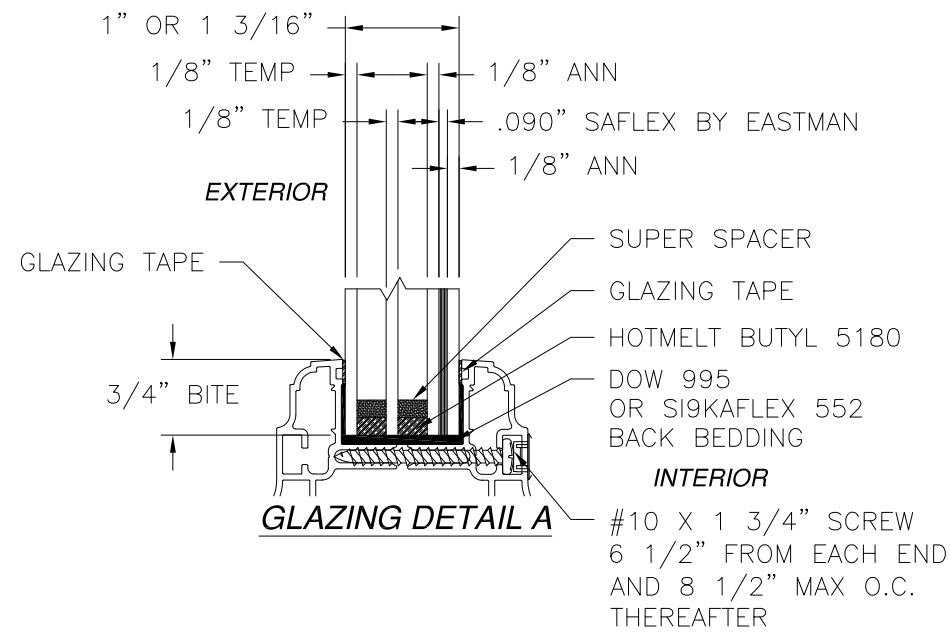
L. ROBERTO LOMAS P.E.
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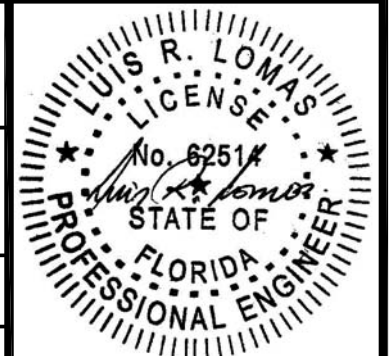
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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM - IMPACT
GLAZING DETAILS

DRAWN: J.L.	DWG NO. 08-02040	REV I
SCALE NTS	DATE 04/23/13	SHEET 12 OF 17

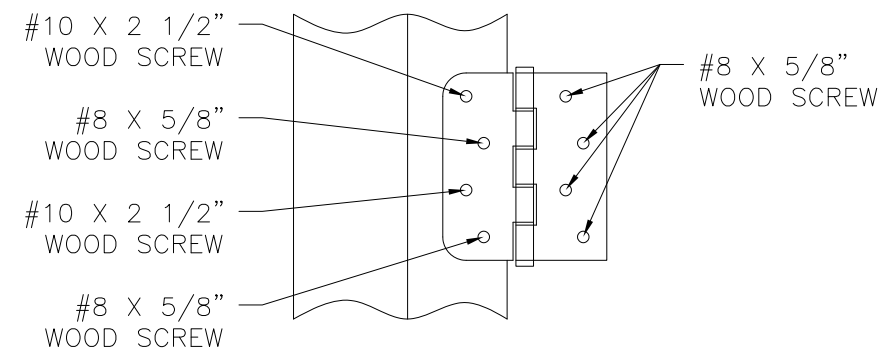
L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com



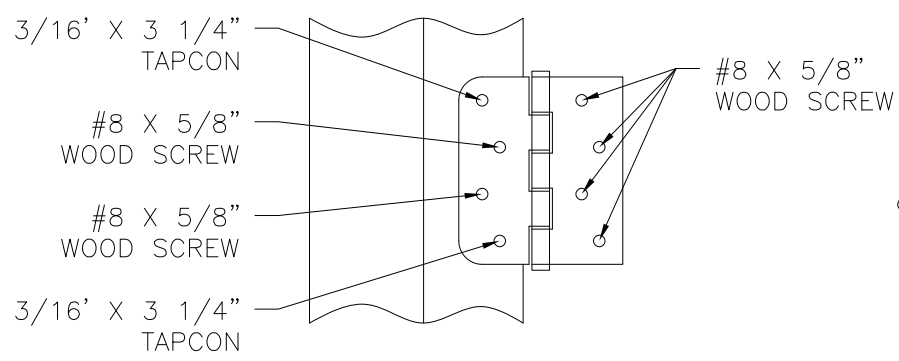
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
I	ADDED TRIMS & 5180 HOT MELT BUTYL	08/24/2021	R.L.

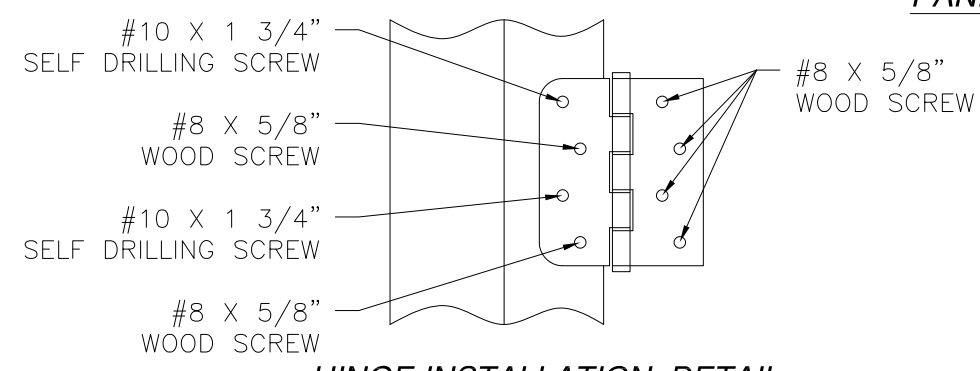
APPROVED SIDELITE SLABS



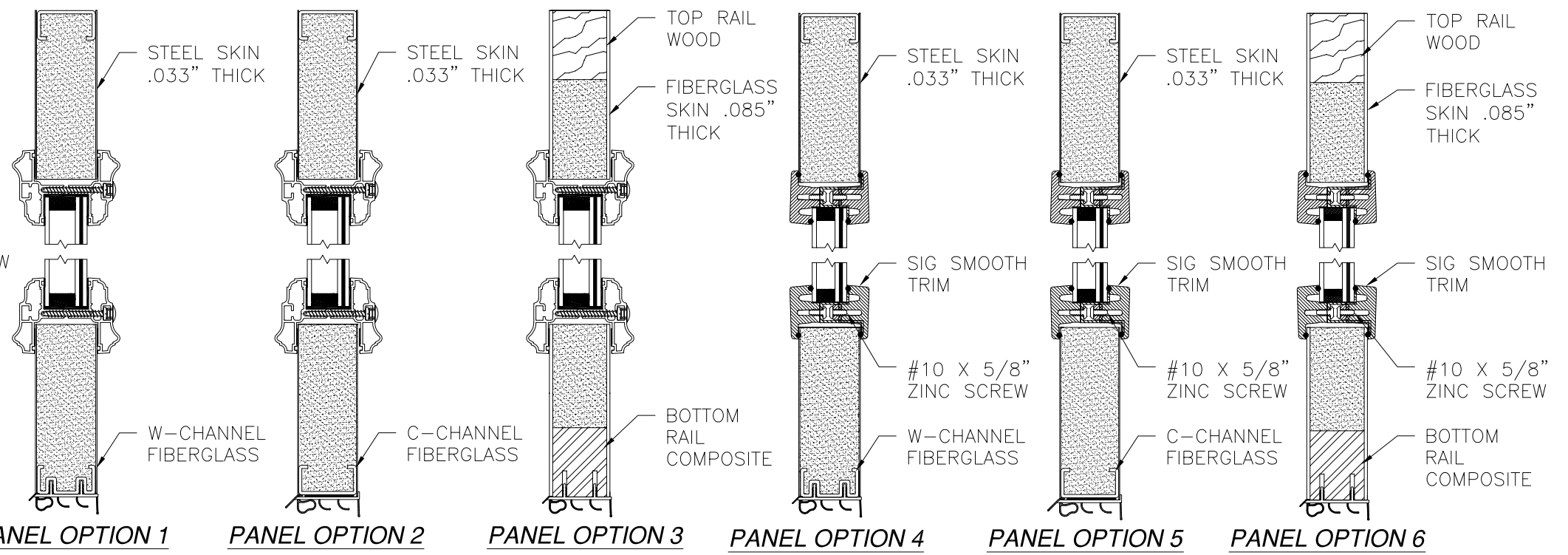
HINGE INSTALLATION DETAIL
2X BUCK/WOOD FRAMING



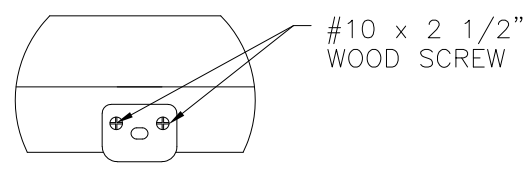
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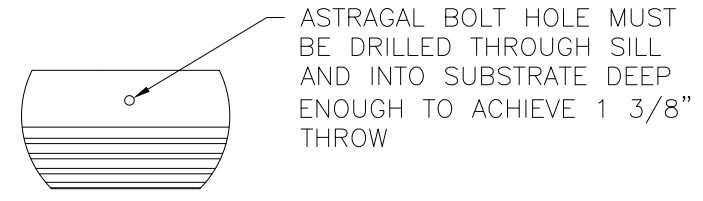
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METAL STRUCTURE



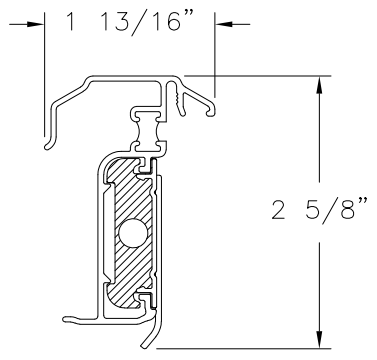
PANEL OPTION 1 **PANEL OPTION 2** **PANEL OPTION 3** **PANEL OPTION 4** **PANEL OPTION 5** **PANEL OPTION 6**



ASTRAGAL HEAD STRIKE DETAIL
2X BUCK/WOOD FRAMING



ASTRAGAL SILL DETAIL



HURRICANE ASTRAGAL DETAIL

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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
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COMPONENTS DETAILS

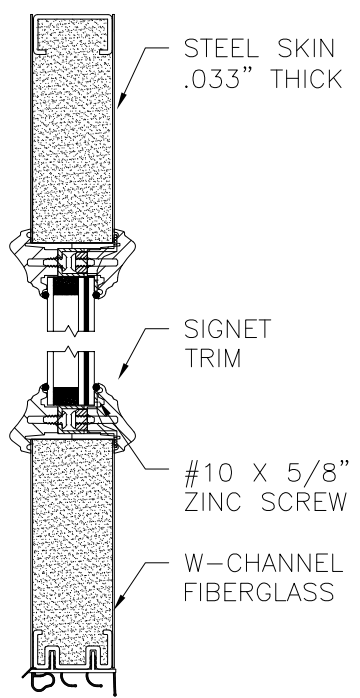
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SCALE NTS	DATE 04/23/13	SHEET 13 OF 17

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

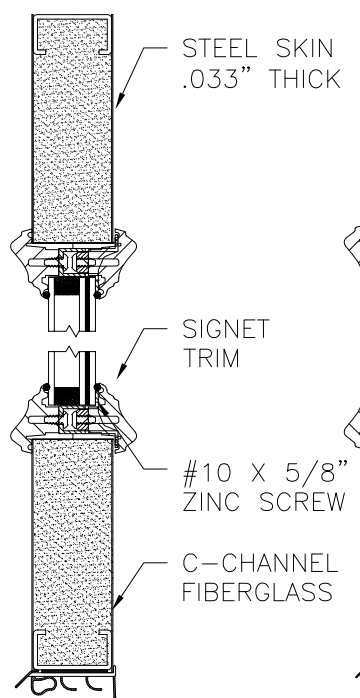
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FL No.: 62514

APPROVED SIDELITE SLABS

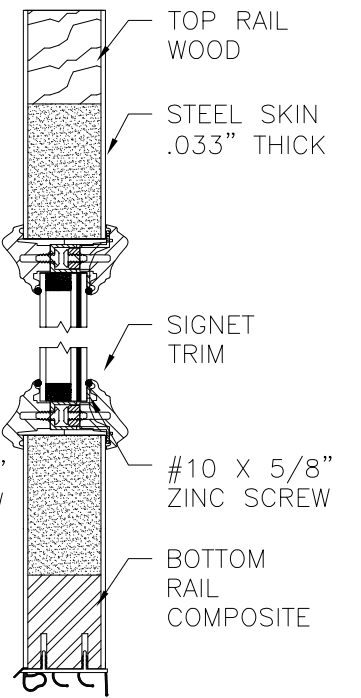
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REV	DESCRIPTION	DATE	APPROVED
I	ADDED TRIMS & 5180 HOT MELT BUTYL	08/24/2021	R.L.



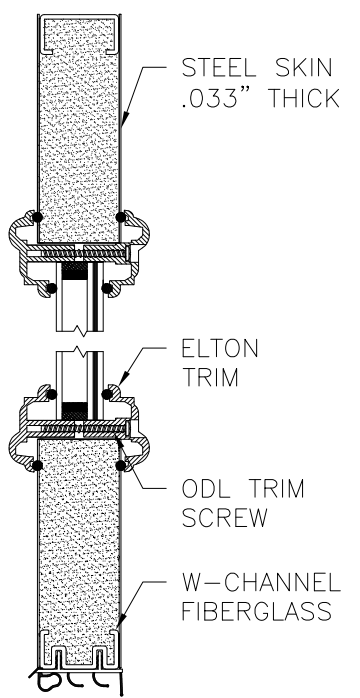
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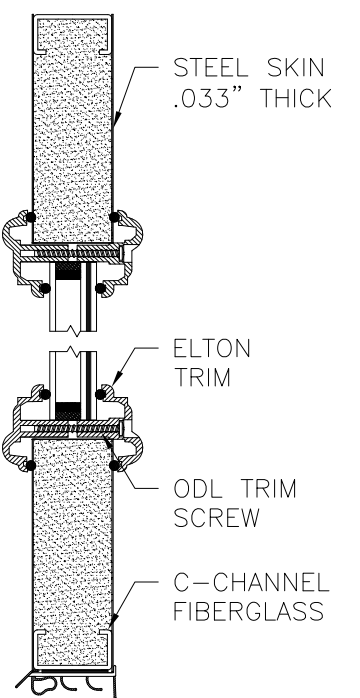
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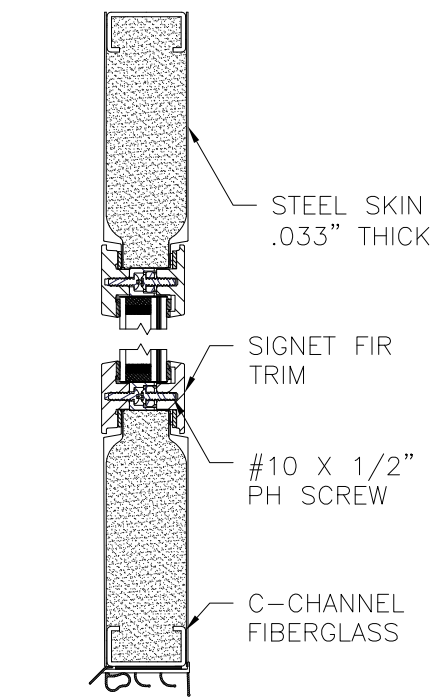
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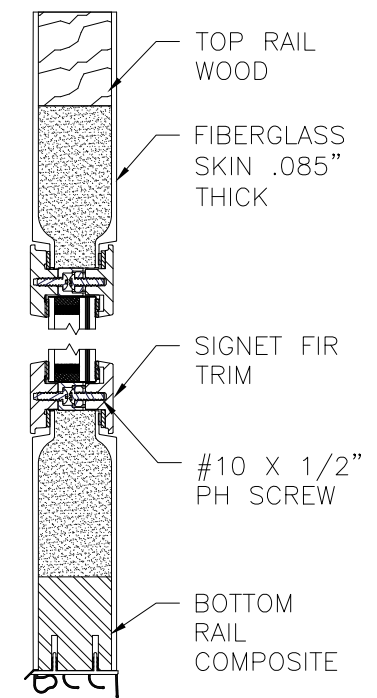
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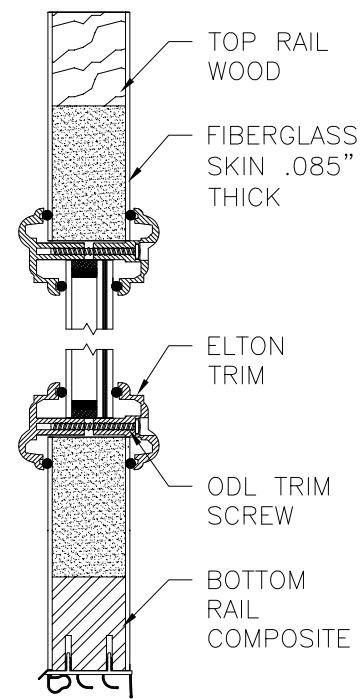
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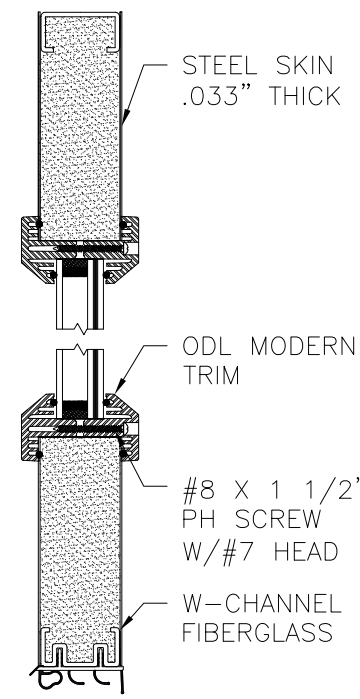
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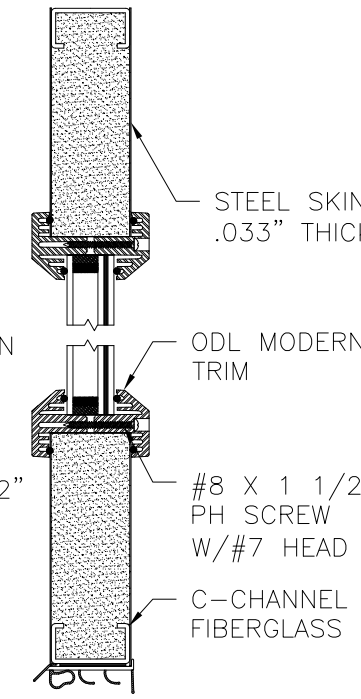
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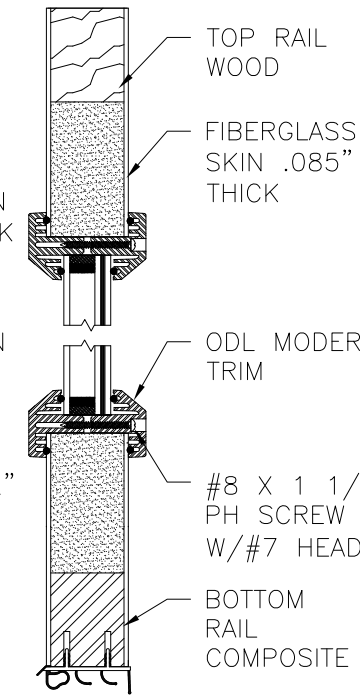
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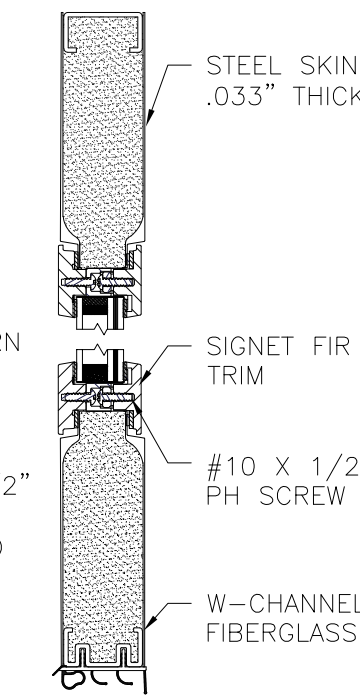
PANEL OPTION 13



PANEL OPTION 14



PANEL OPTION 15



PANEL OPTION 16

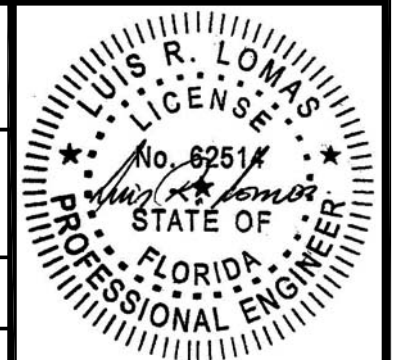
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM - IMPACT
APPROVED SLABS

DRAWN: J.L.	DWG NO. 08-02040	REV I
SCALE NTS	DATE 04/23/13	SHEET 14 OF 17

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

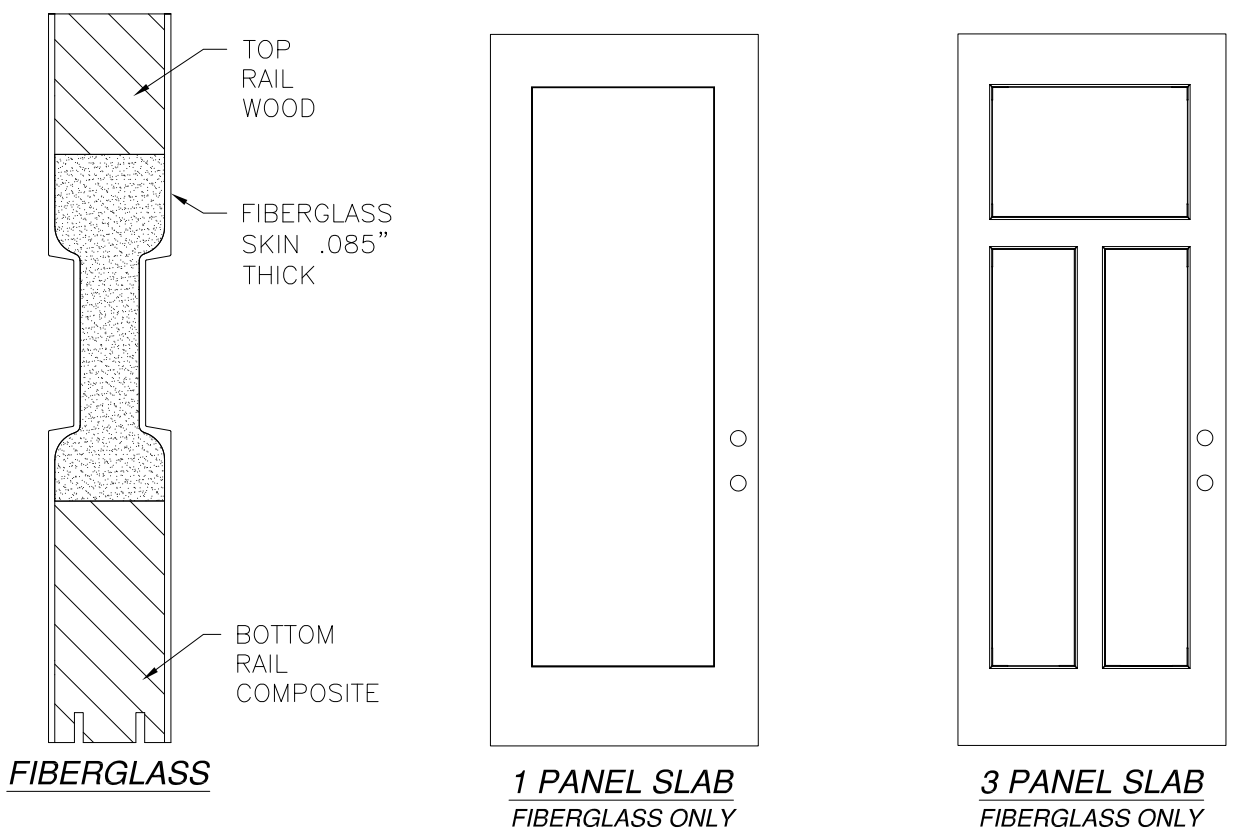
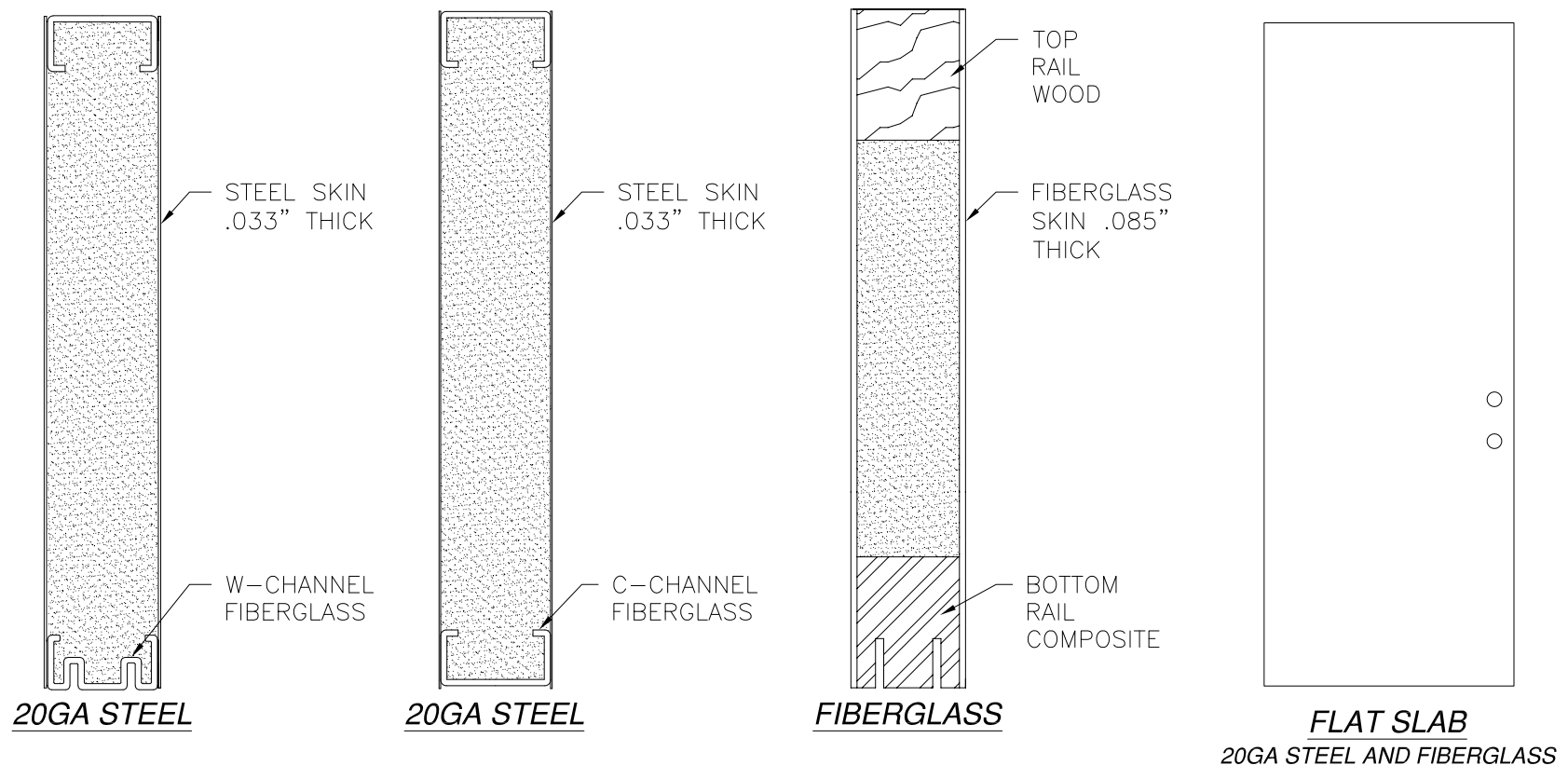
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FL No.: 62514

APPROVED DOOR SLABS AND CROSS SECTIONS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
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 APPROVED SLABS

DRAWN: J.L.	DWG NO. 08-02040	REV I
SCALE NTS	DATE 04/23/13	SHEET 15 OF 17

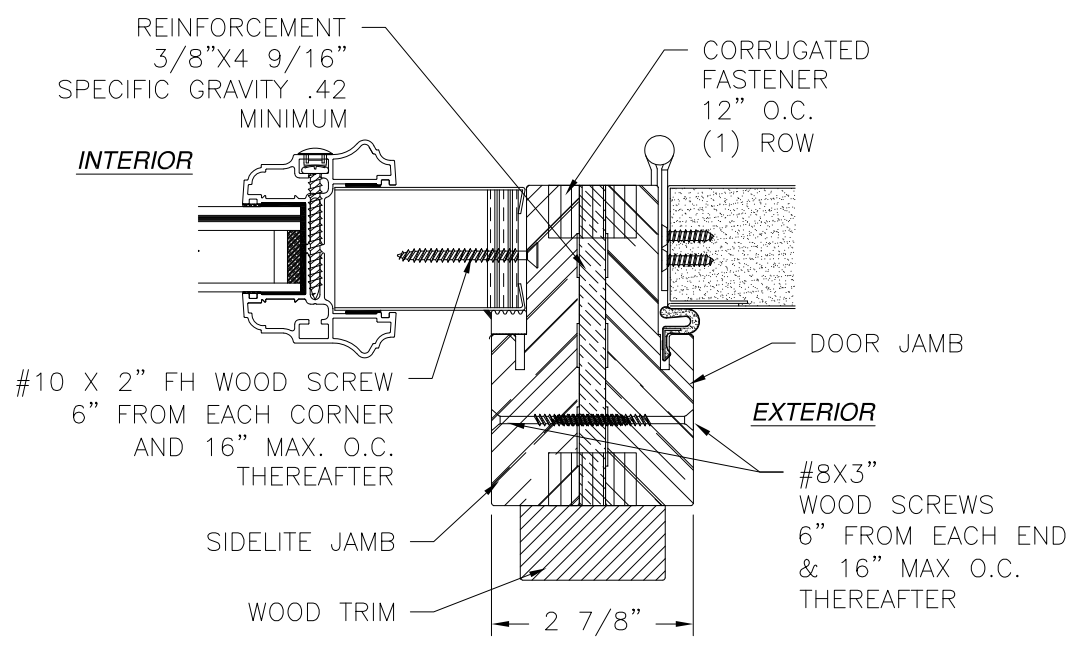
L. ROBERTO LOMAS P.E.
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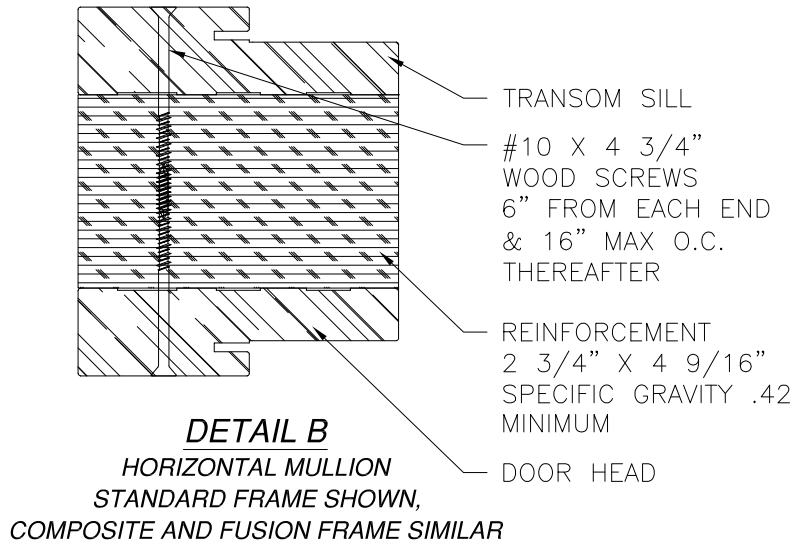
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I	ADDED TRIMS & 5180 HOT MELT BUTYL	08/24/2021	R.L.



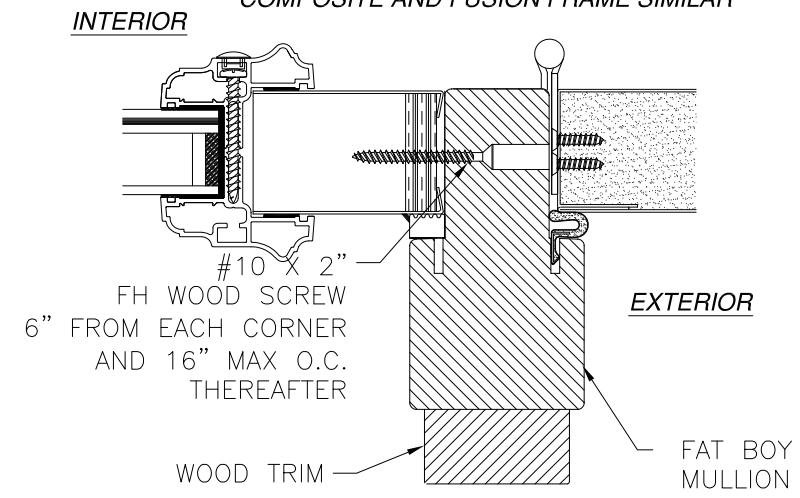
DETAIL A

VERTICAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



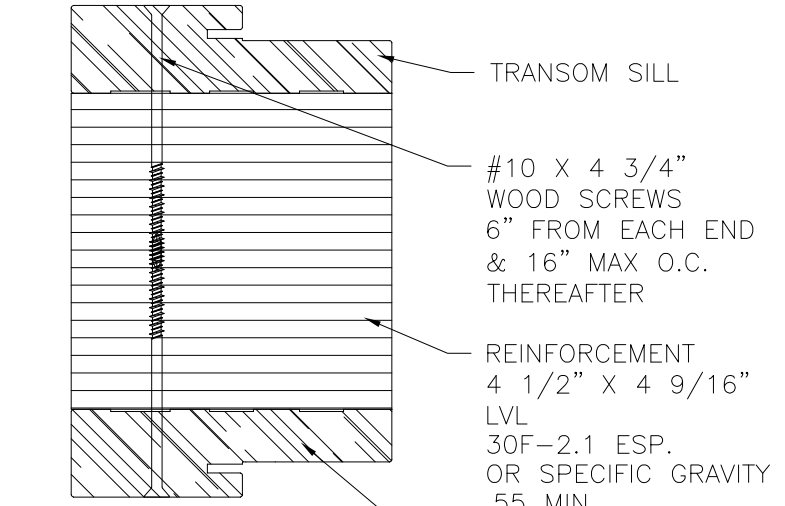
DETAIL B

HORIZONTAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



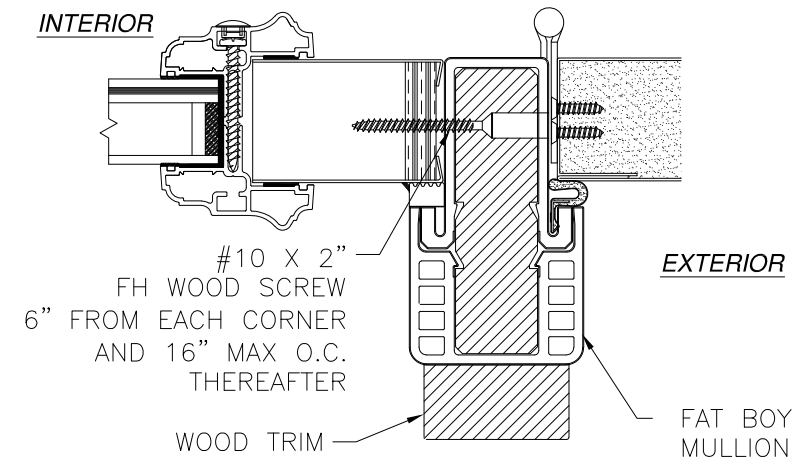
DETAIL A

WITH FAT BOY MULLION



DETAIL C

HORIZONTAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



DETAIL A

WITH HYBRID FAT BOY MULLION

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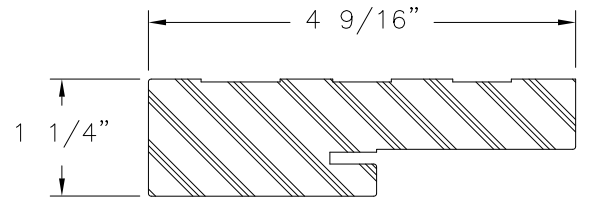
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM - IMPACT
MULLION DETAILS

DRAWN: J.L.	DWG NO. 08-02040	REV I
SCALE NTS	DATE 04/23/13	SHEET 16 OF 17

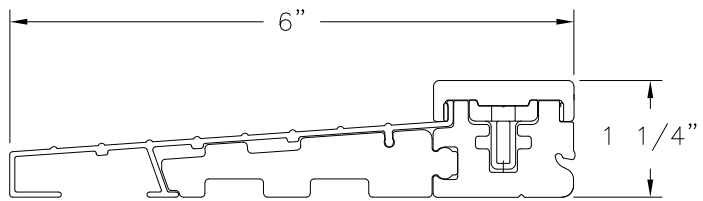
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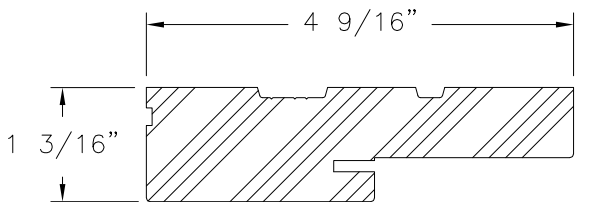
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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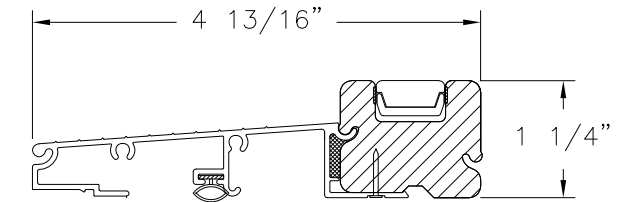
COMPOSITE FRAME PROFILE



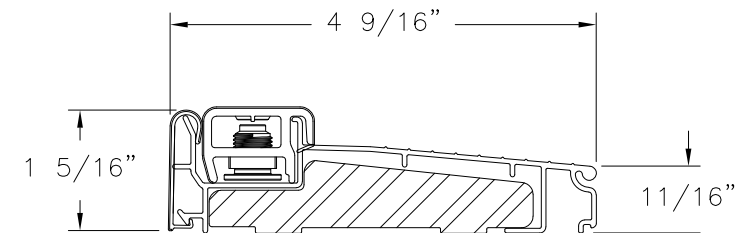
INSWING DOOR SILL DETAIL



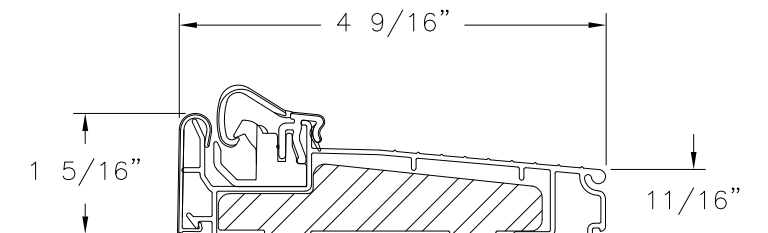
WOOD FRAME PROFILE



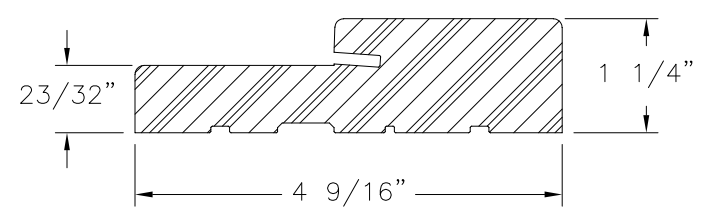
SAHARA INSWING THRESHOLD



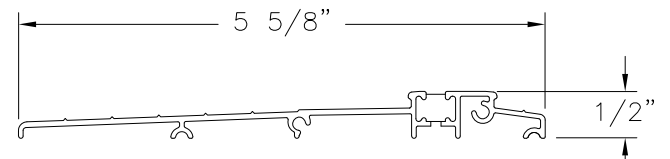
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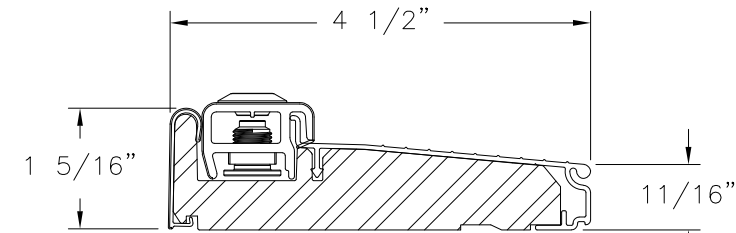
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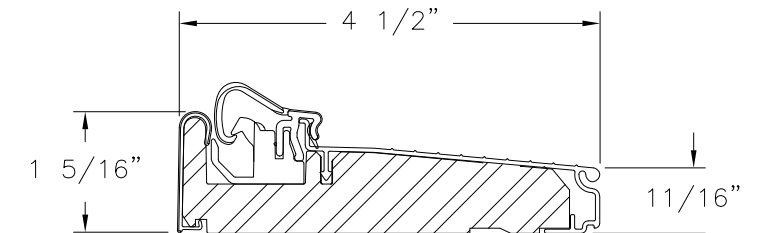
FRAMESAVER COMPOSITE



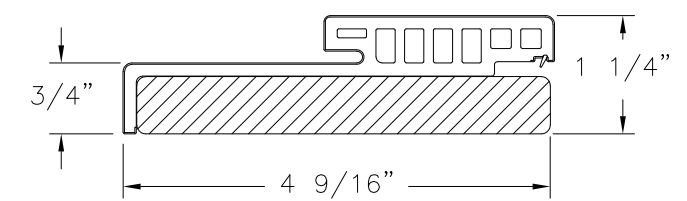
ADA THRESHOLD



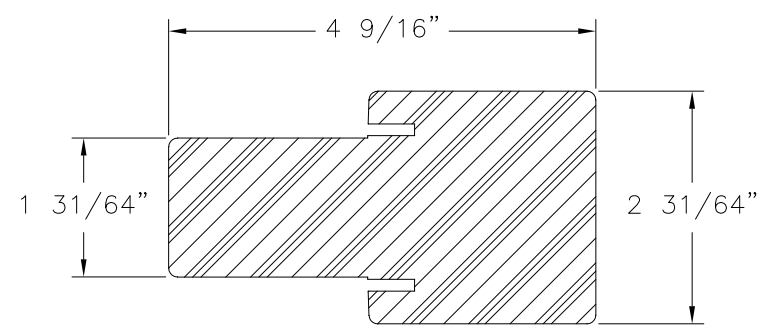
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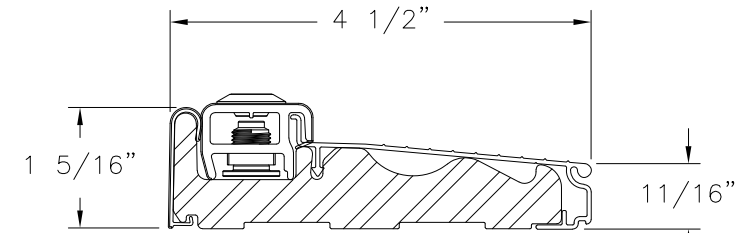
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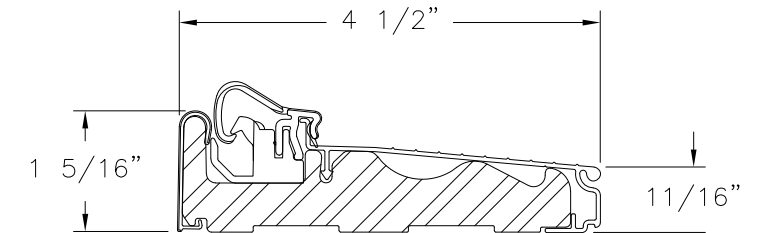
HYBRID HEAD WOOD/COMPOSITE



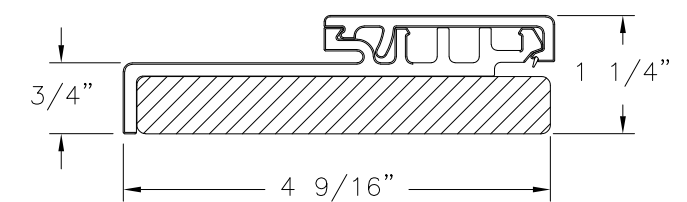
FAT BOY MULLION COMPOSITE



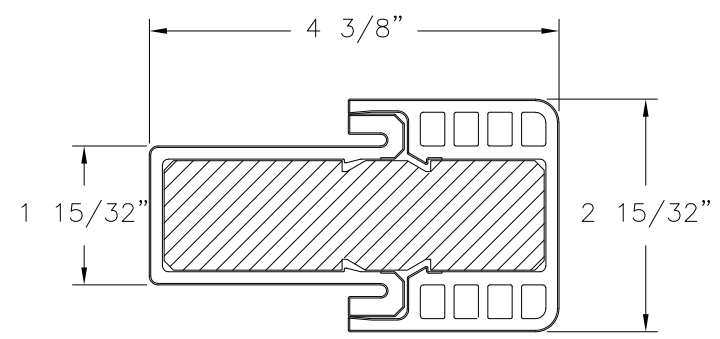
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INSWING SILL ZA4LH4565



HYBRID JAMB WOOD/COMPOSITE



HYBRID FAT BOY MULLION COMPOSITE

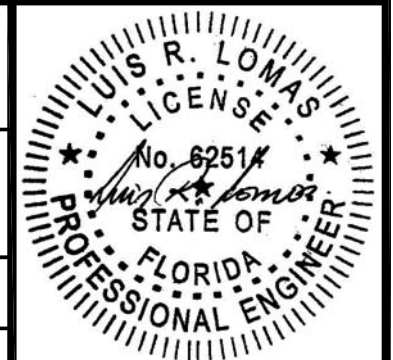
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