

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	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), FIBERGLASS .085" THICK (MINIMUM).
SIDELITE SKIN MATERIAL: STEEL .022" THICK (MINIMUM)
7. SIDELITES MUST BE GLAZED PER ASTM E1300, SEE SHEET 11 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.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 3	ELEVATIONS
4	ANCHORING LAYOUTS
5 – 10	INSTALLATION DETAILS
11	GLAZING DETAILS
12 – 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 – IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08-02038

REV
J

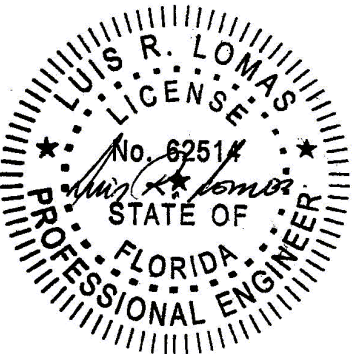
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DATE 04/22/13

SHEET 1 OF 17

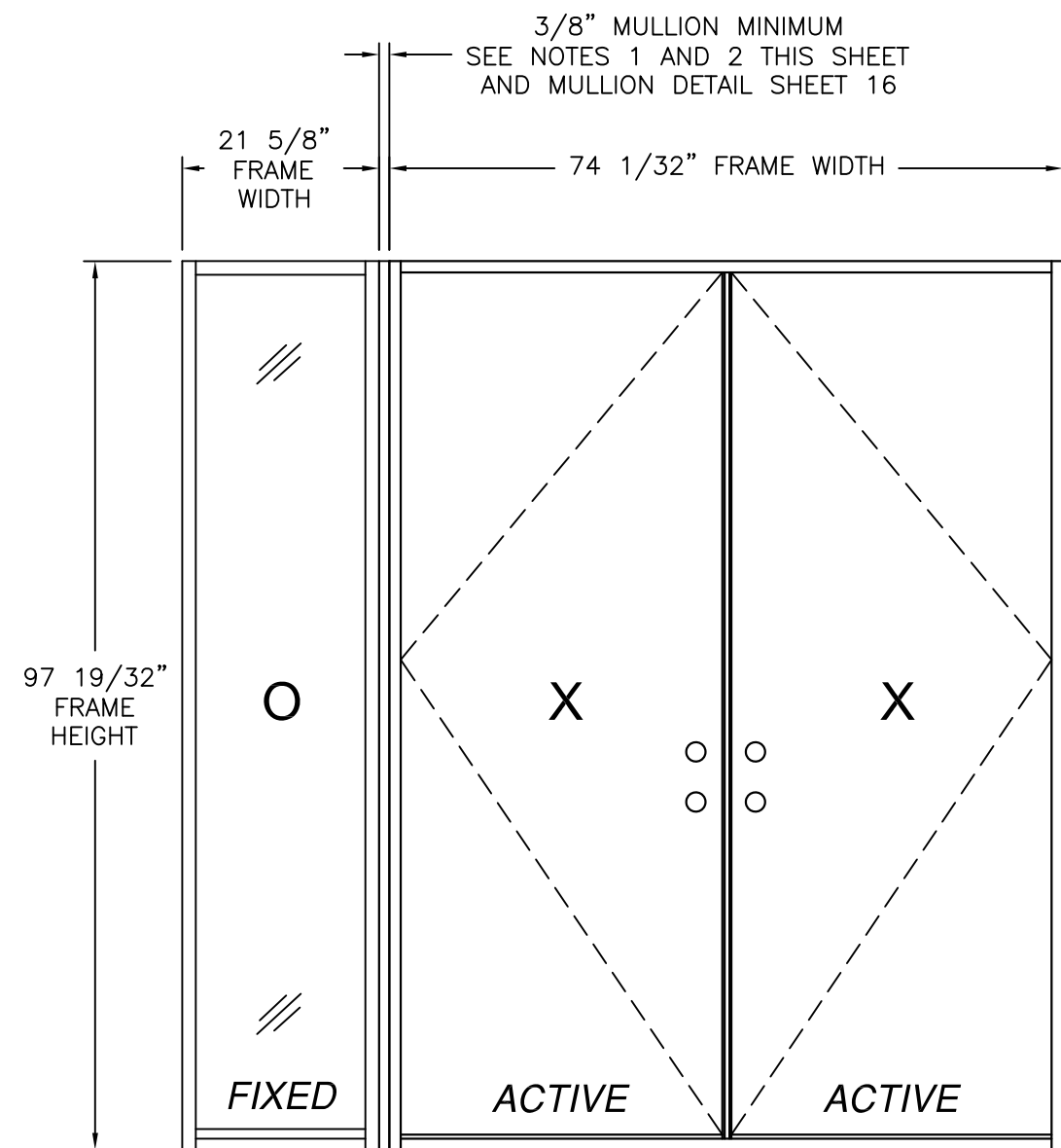
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/11/2026

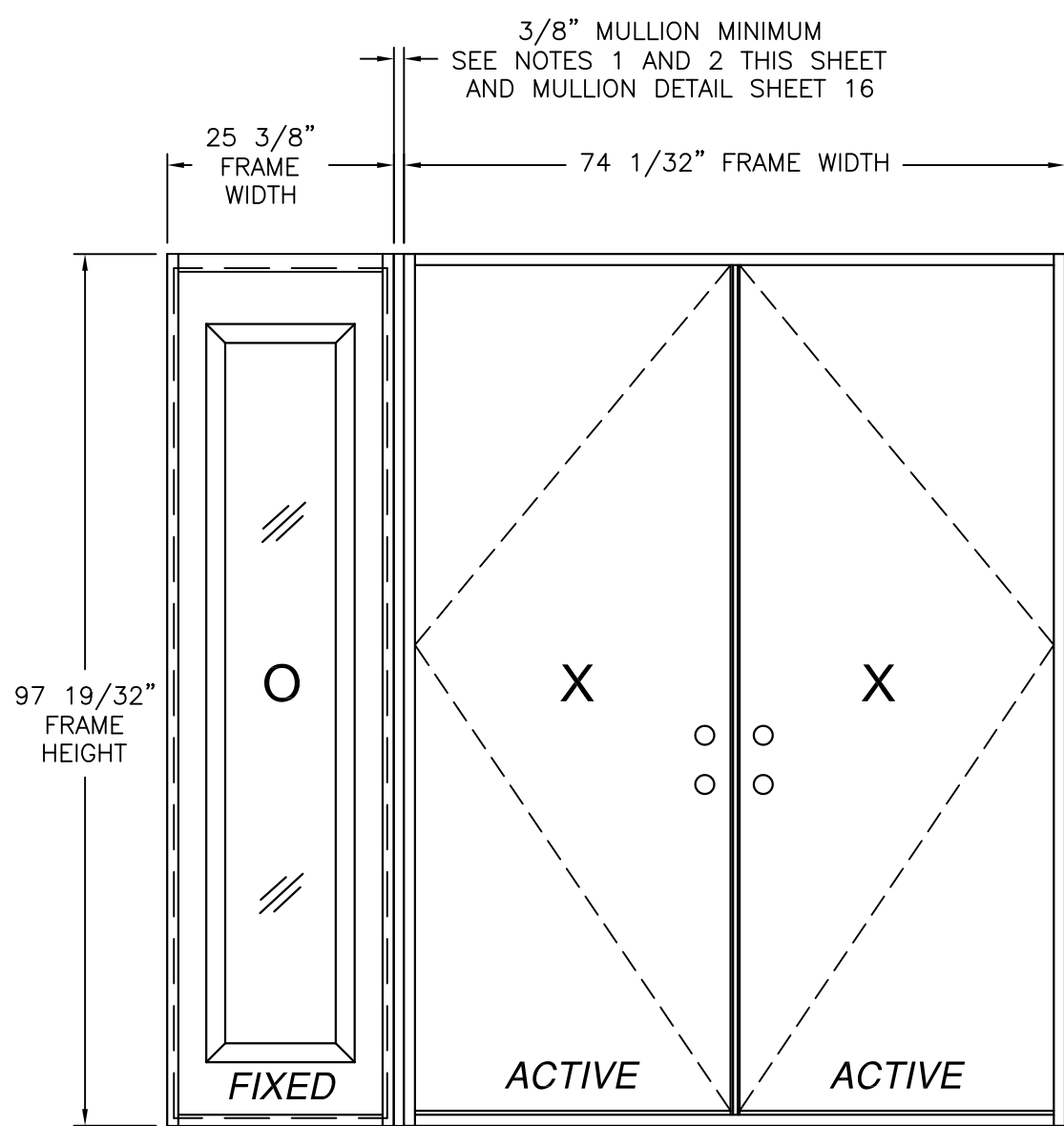


Luis R. Lomas P.E.
FL No.: 62514

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



DOUBLE DOOR WITH STANDARD SIDELITE
EXTERIOR VIEW
OXX SHOWN XXO ALSO APPROVED

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

WITH PANOLOCK MULTI-POINT

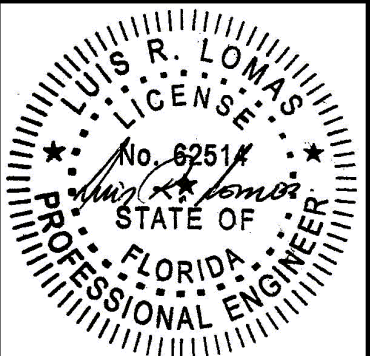
DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

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)

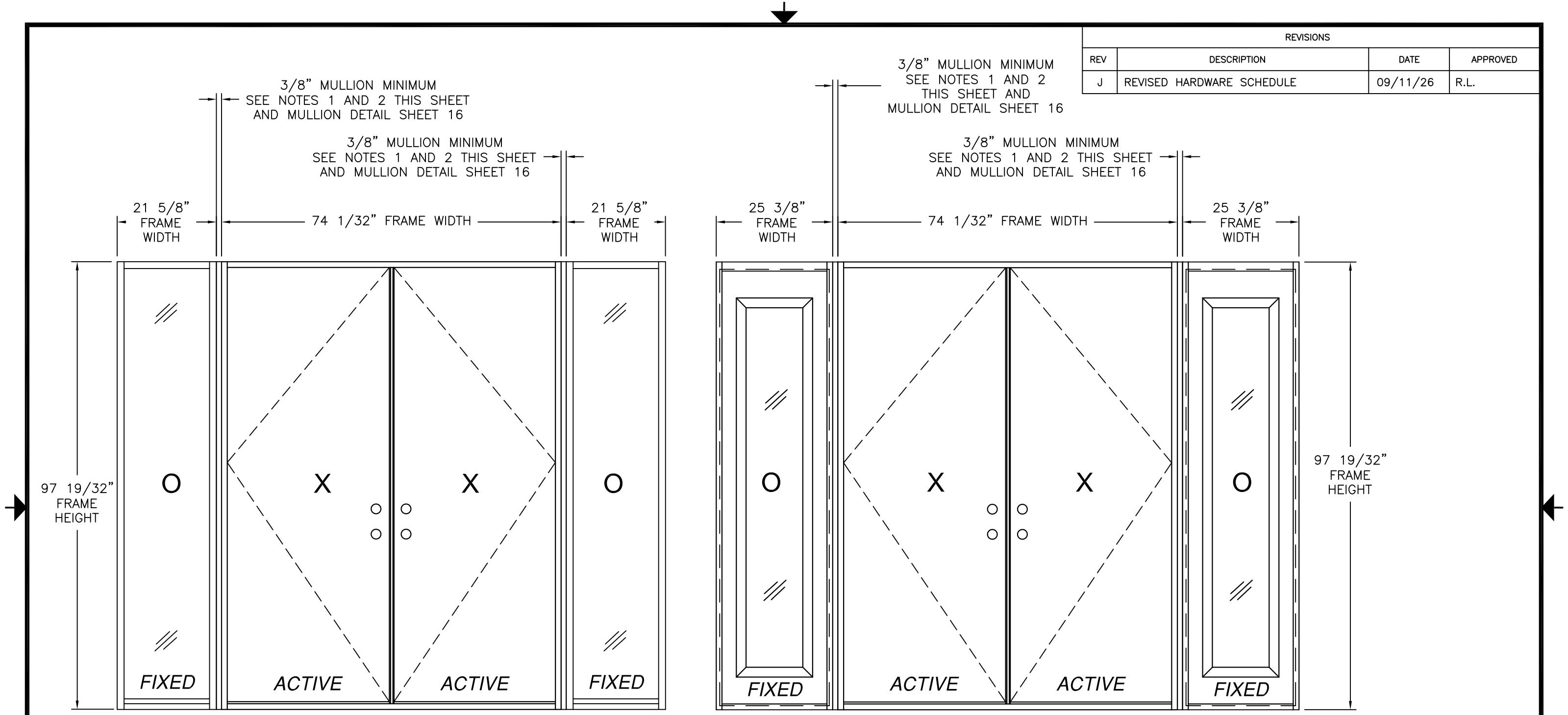
- NOTES:
1. MAXIMUM ALLOWED BUILD UP TO BE 7" AT EACH VERTICAL MULLION.
 2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED.

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES - IMPACT ELEVATIONS		
DRAWN: V.L.	DWG NO. 08-02038	REV J
SCALE NTS	DATE 04/22/13	SHEET 2 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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DOUBLE DOOR WITH DIRECT SET SIDELITES
EXTERIOR VIEW

DOUBLE DOOR WITH STANDARD SIDELITES
EXTERIOR VIEW

SIGNED: 09/11/2026

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

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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES - IMPACT
ELEVATIONS

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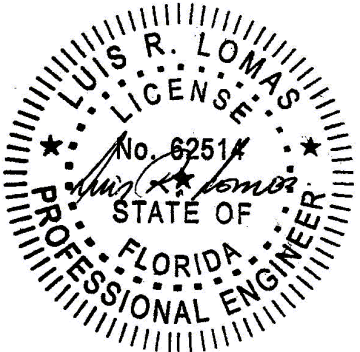
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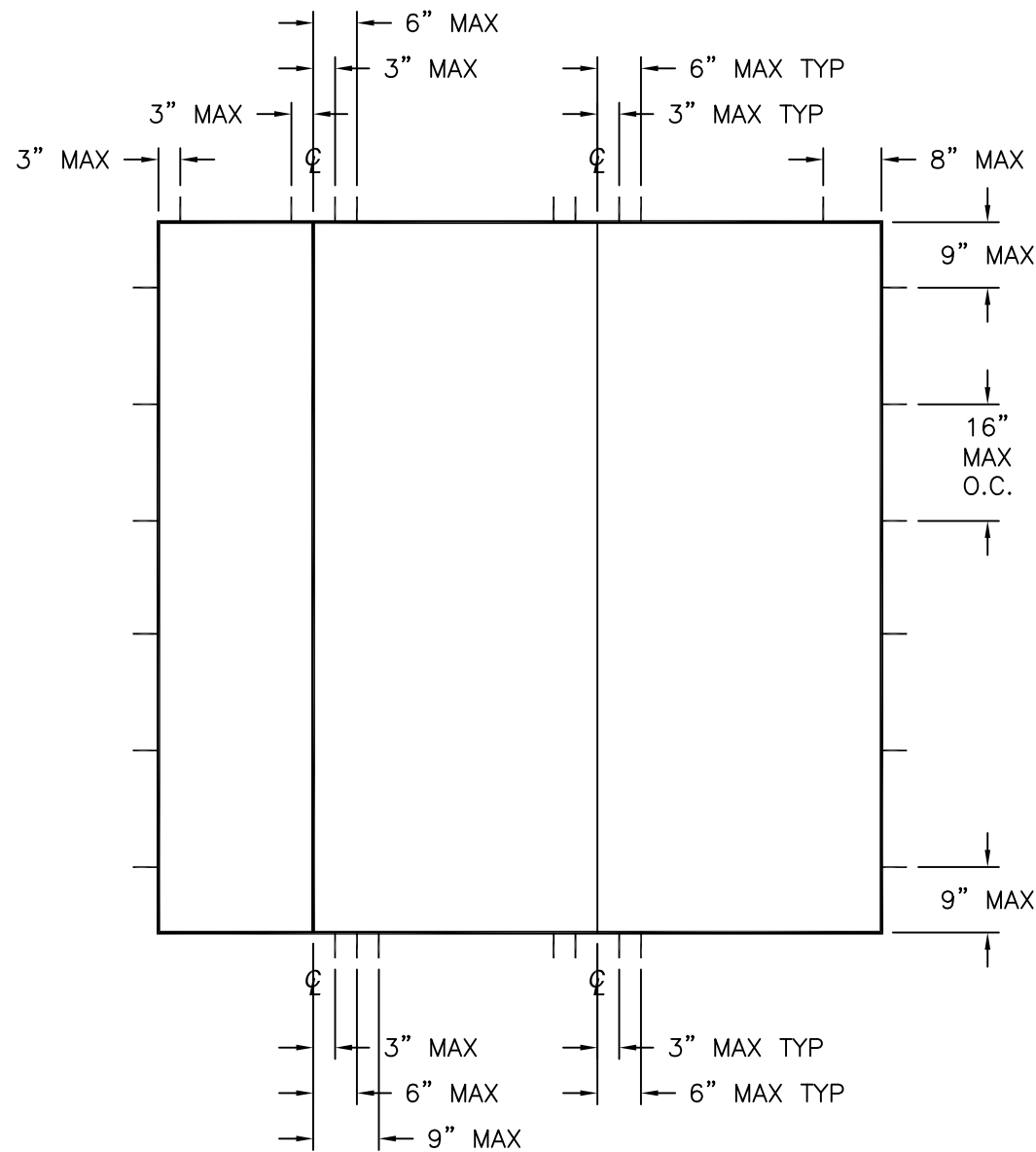
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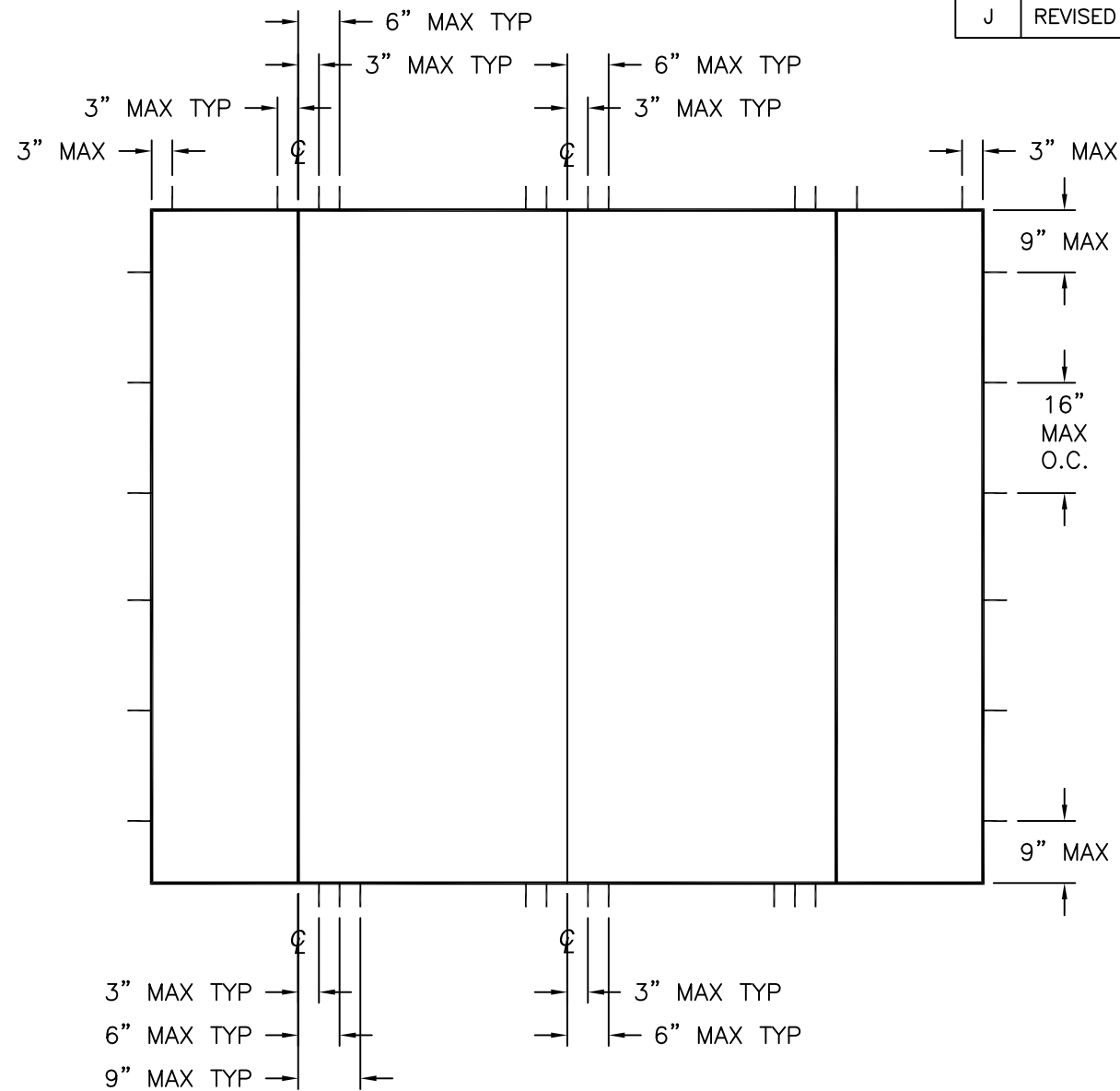


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DOUBLE DOOR WITH SIDELITE



DOUBLE DOOR WITH SIDELITES

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

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W/SIDELITES – IMPACT
ANCHORING LAYOUTS

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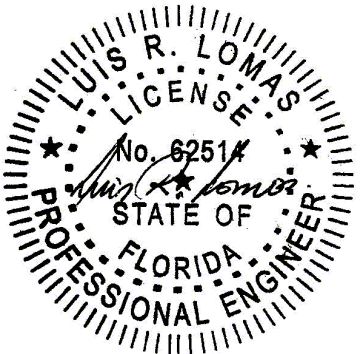
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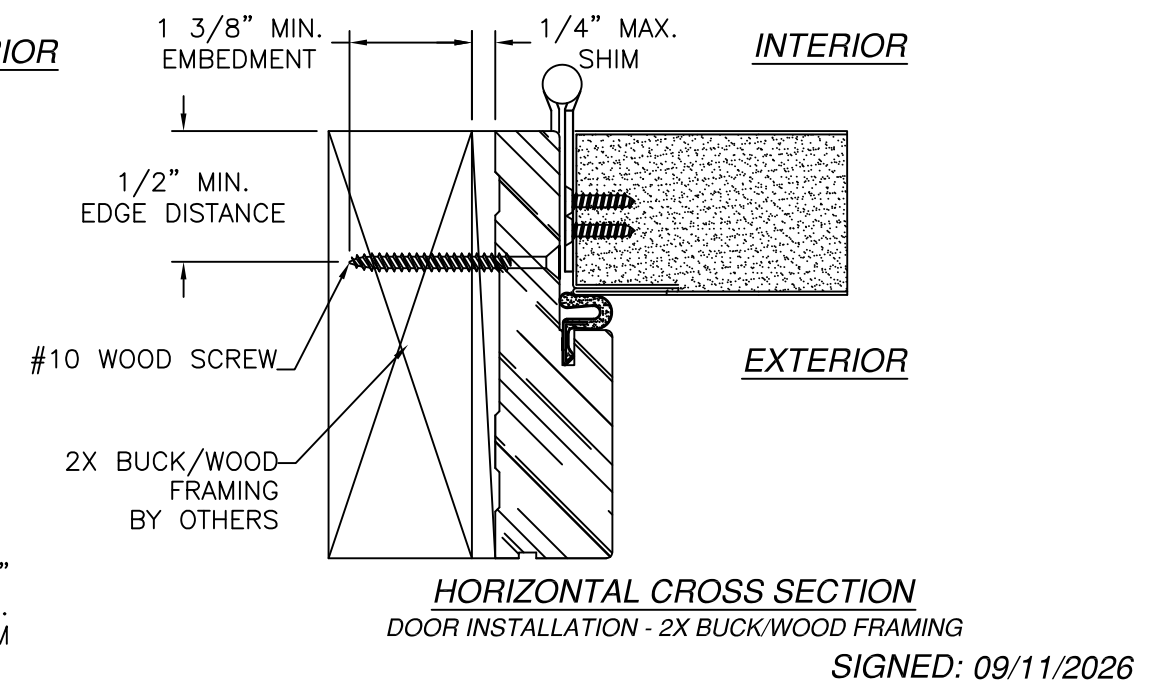
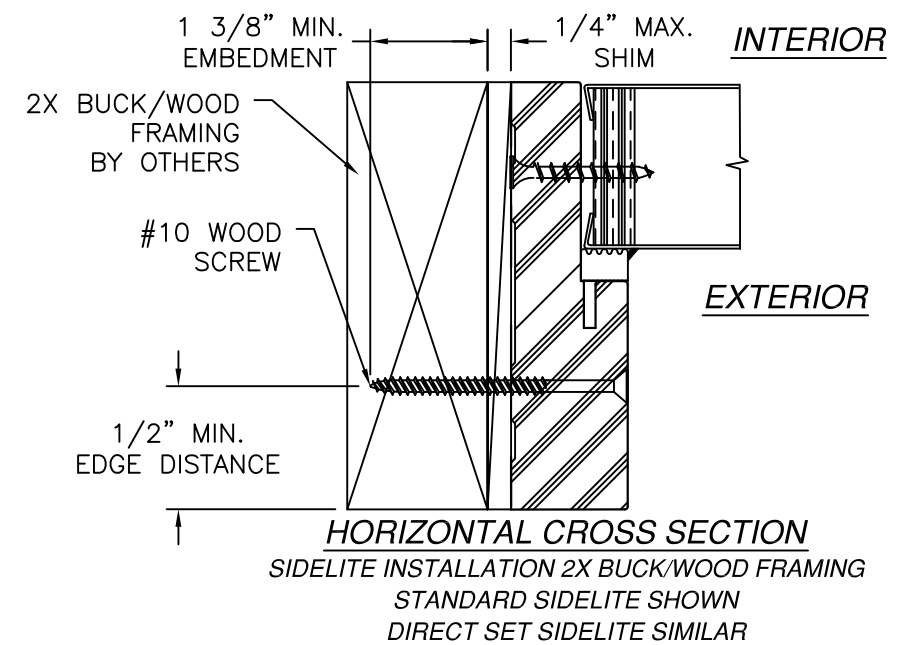
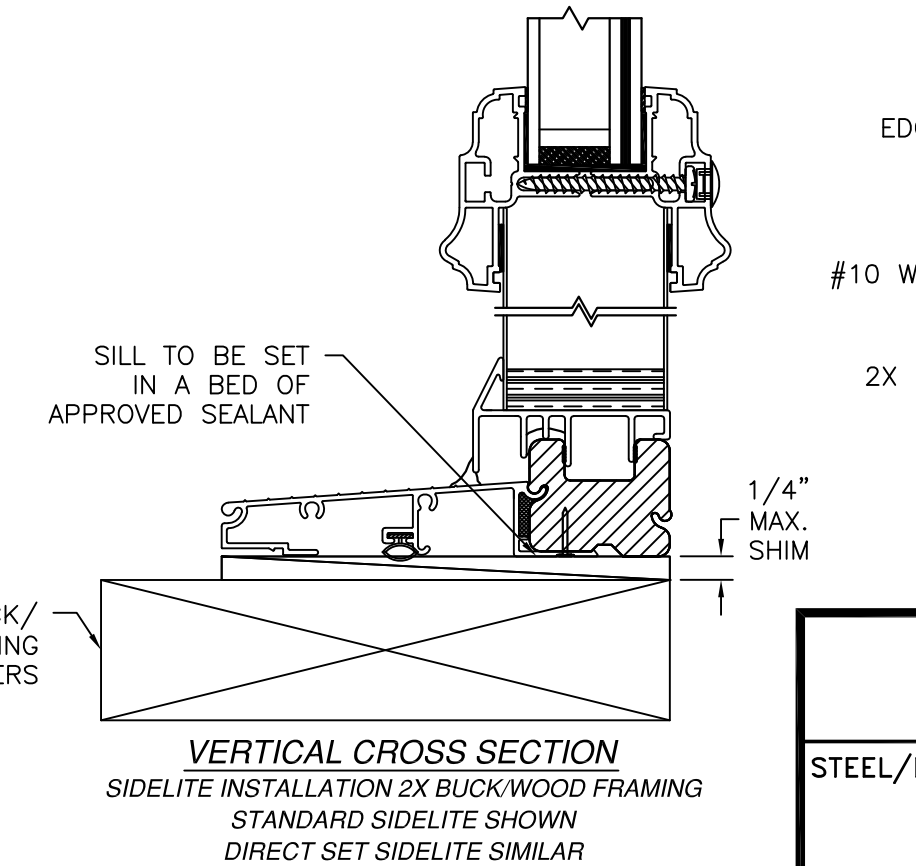
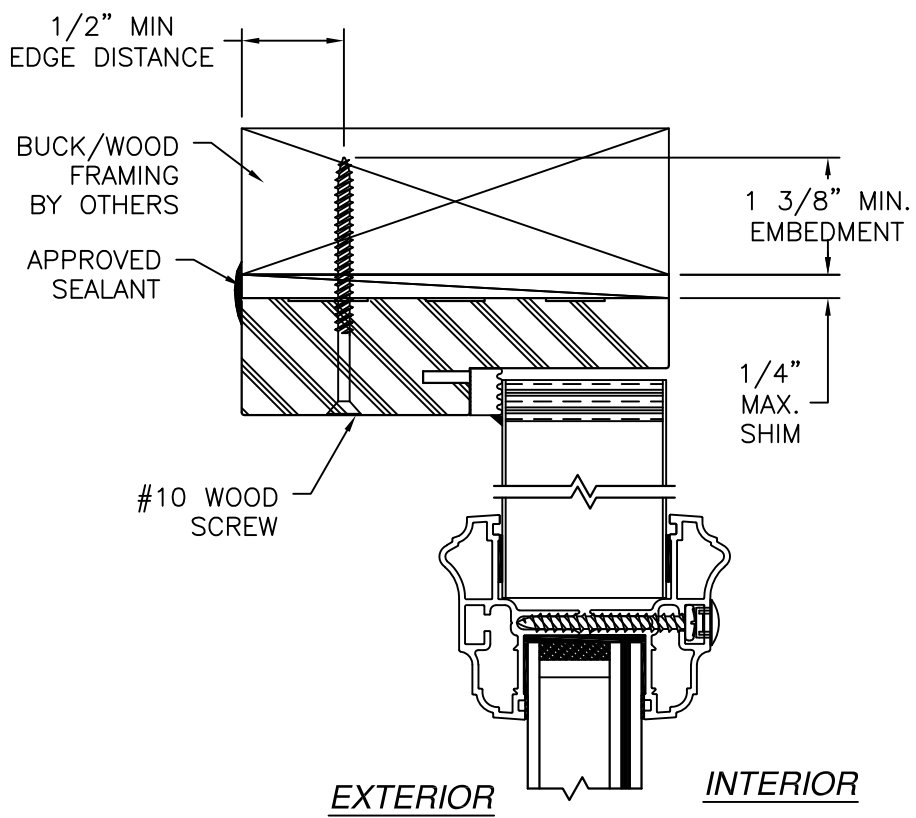
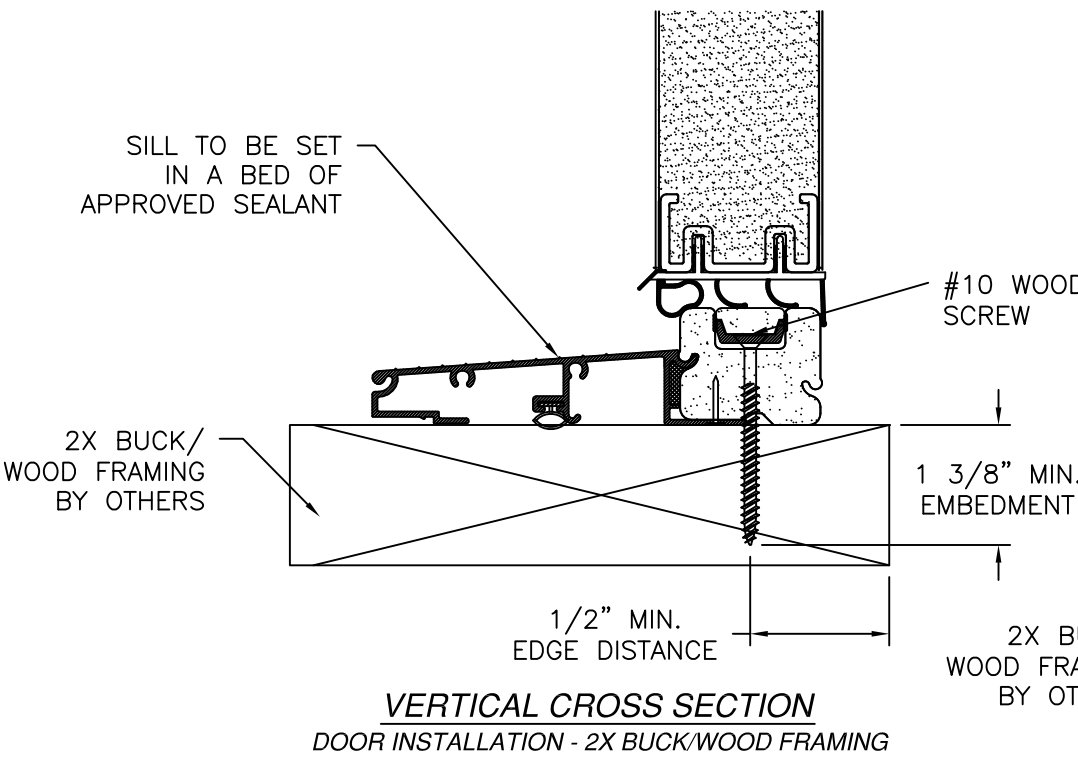
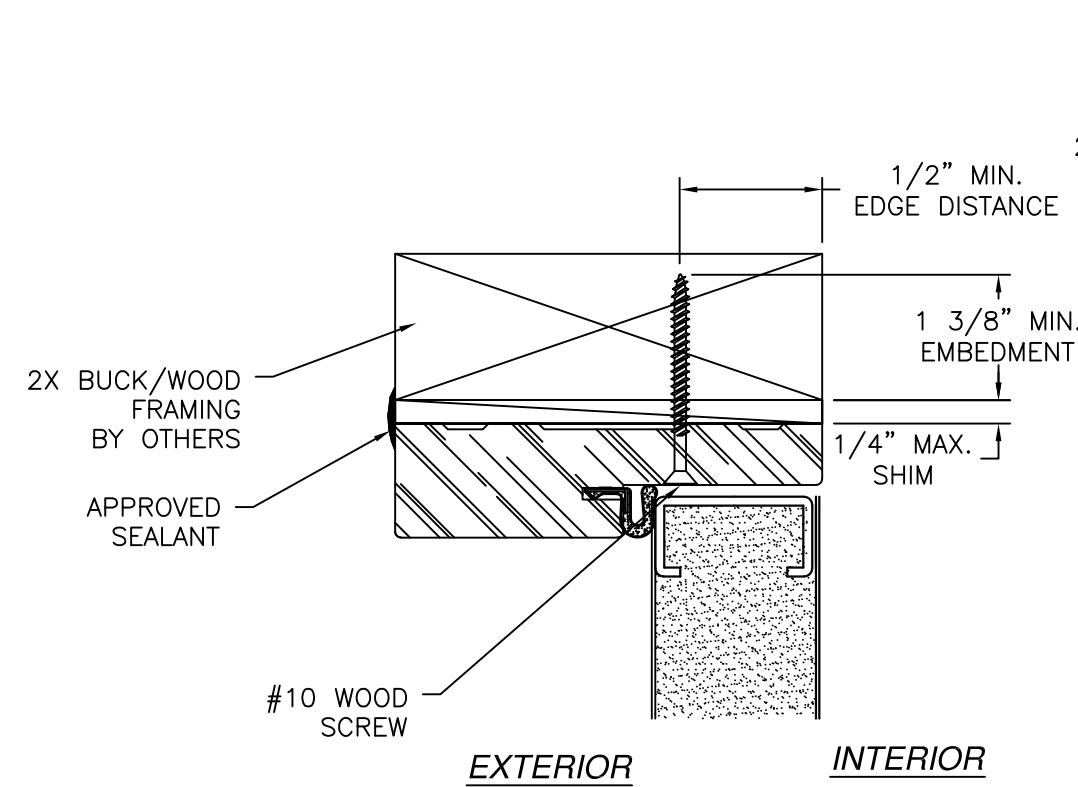
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- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR

W/SIDELITES – IMPACT

INSTALLATION DETAILS

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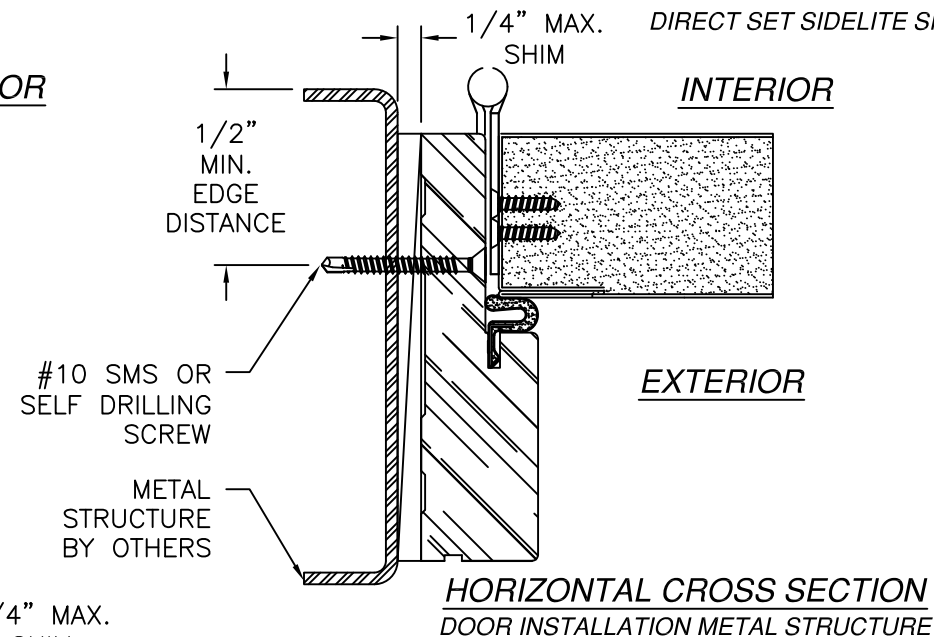
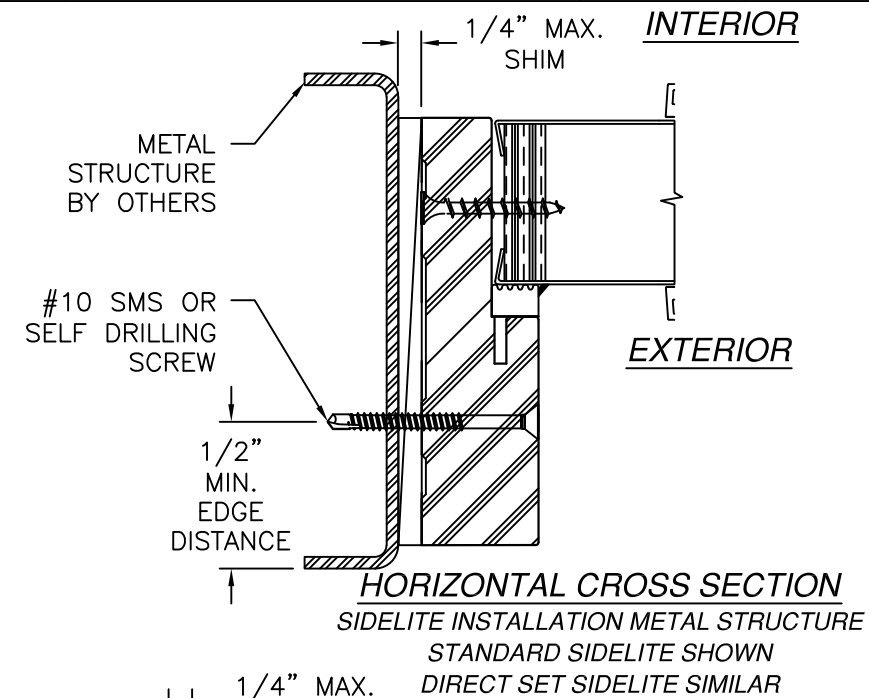
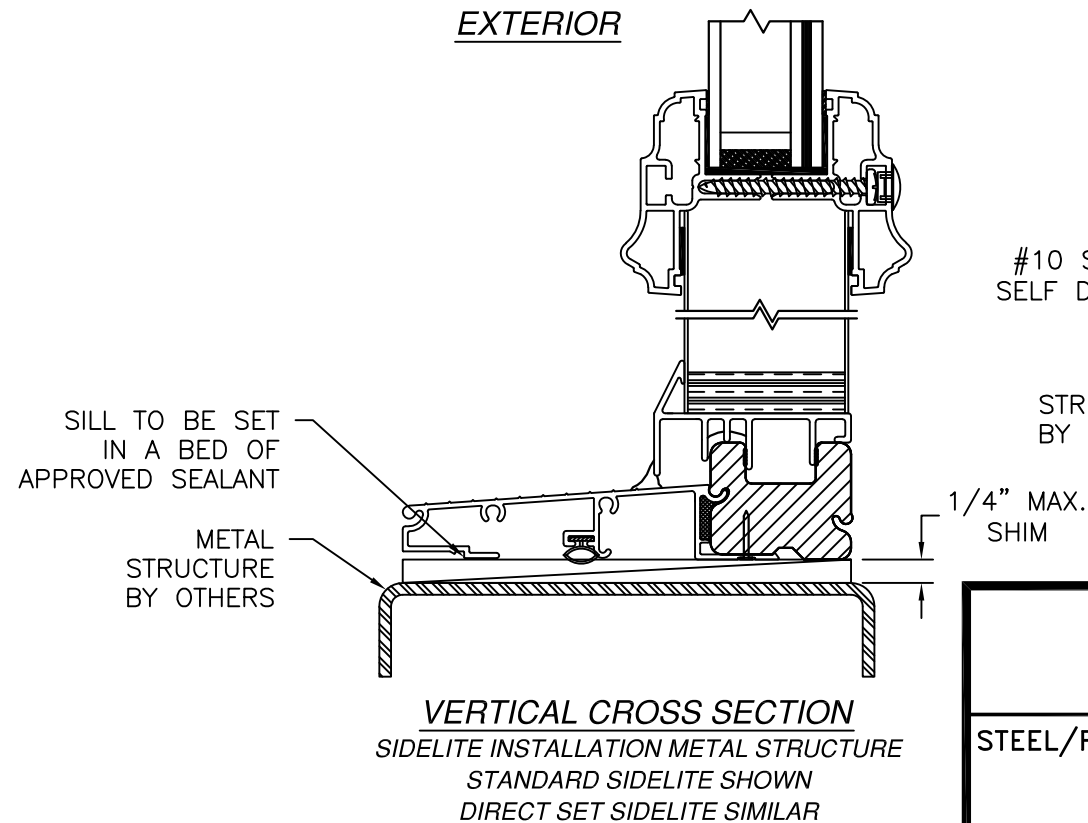
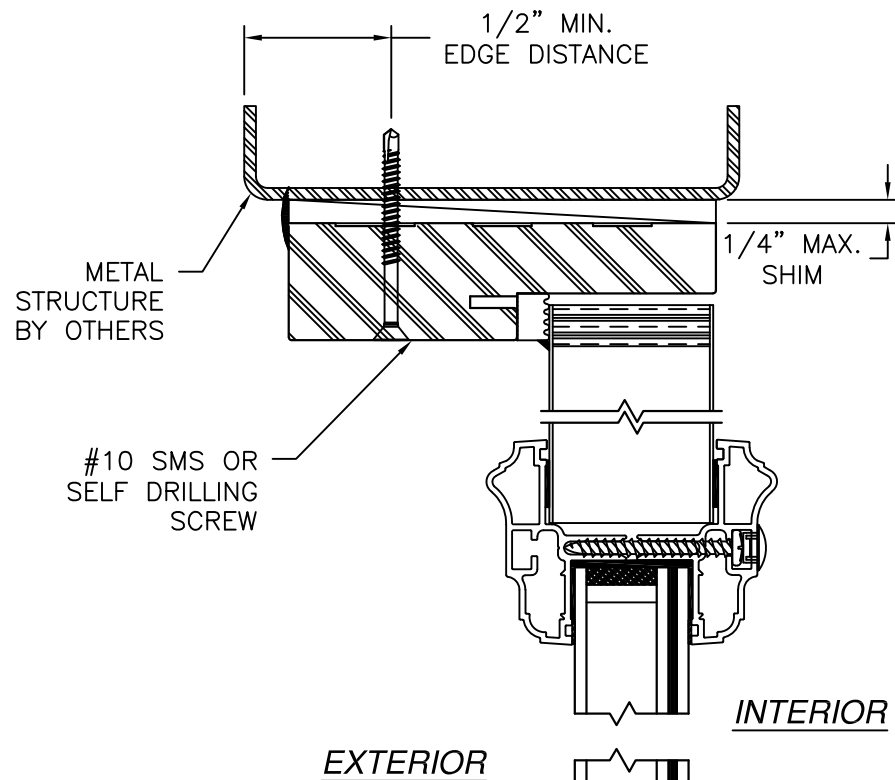
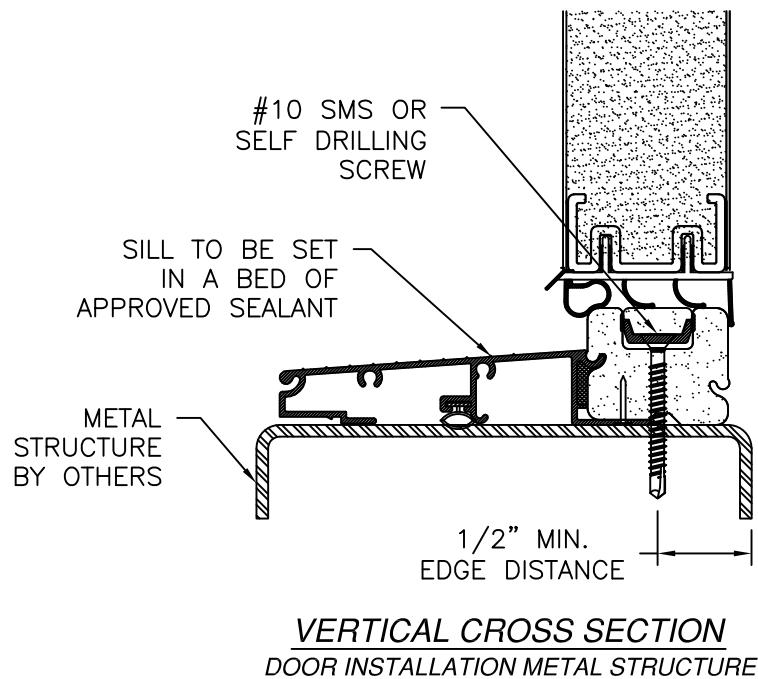
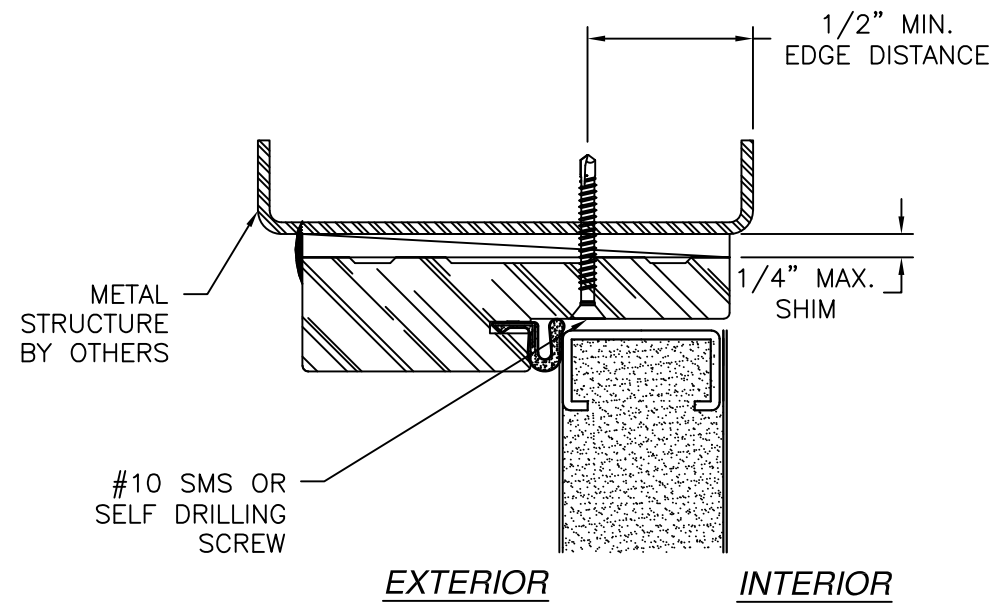
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PROFESSIONAL ENGINEER

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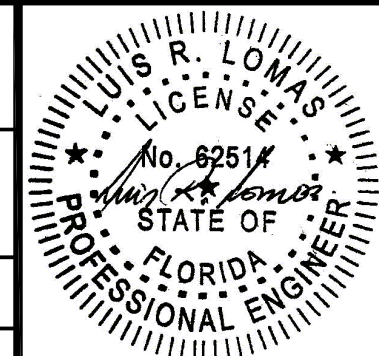
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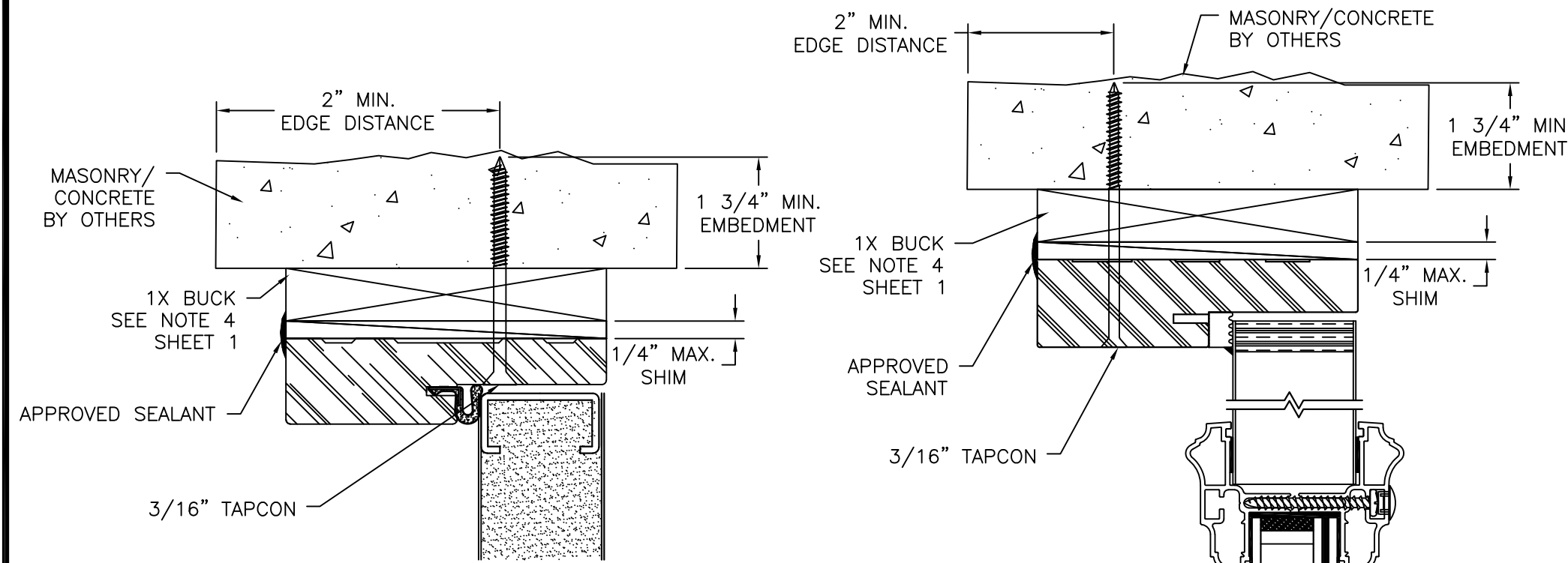
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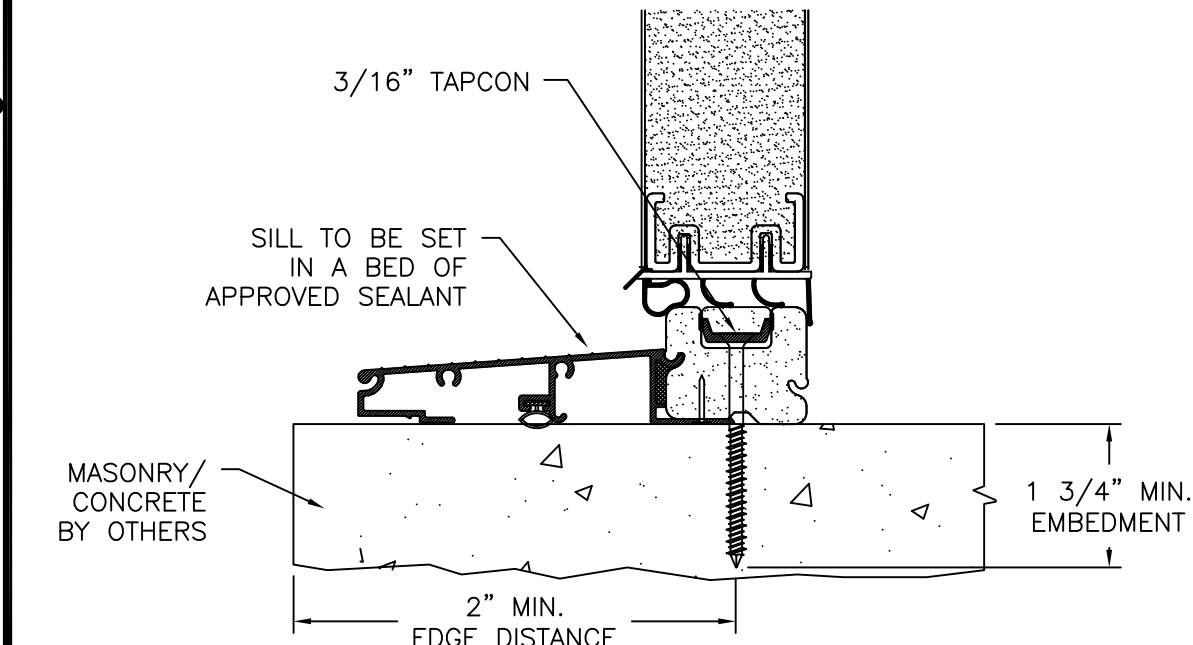


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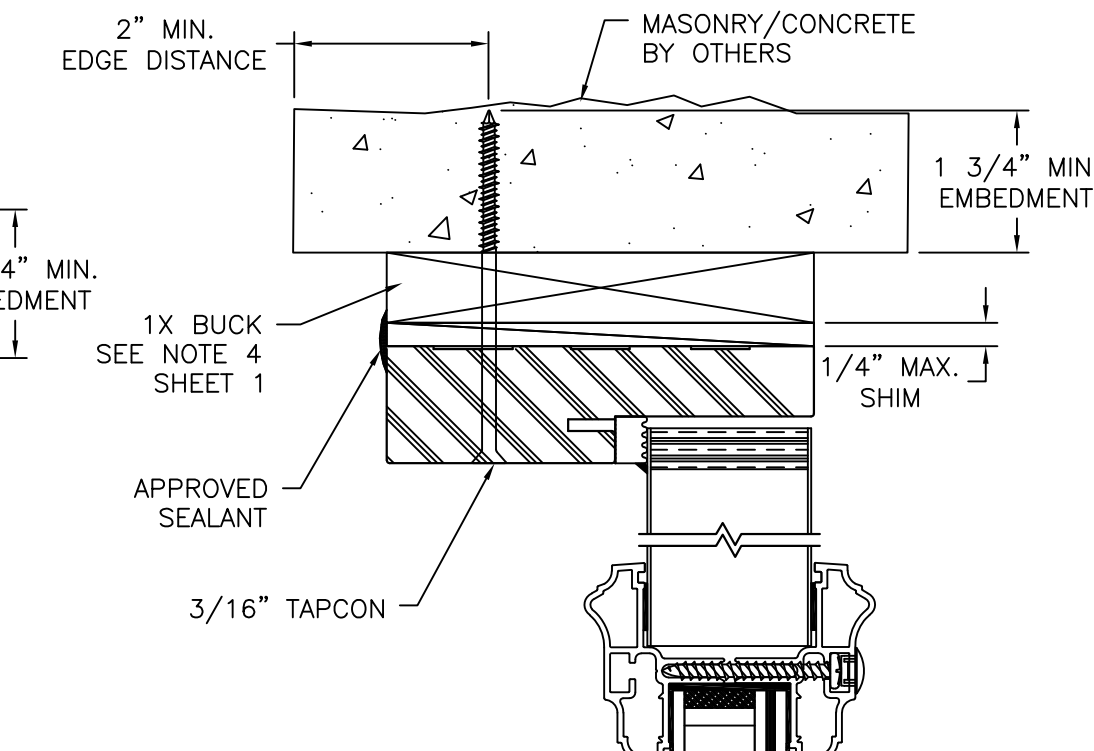
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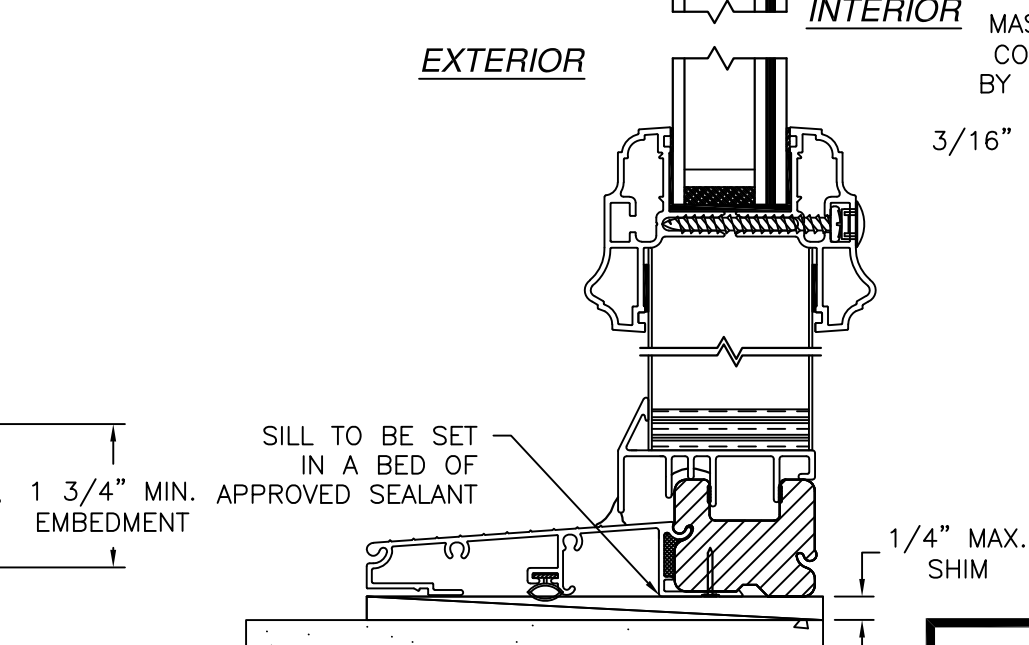
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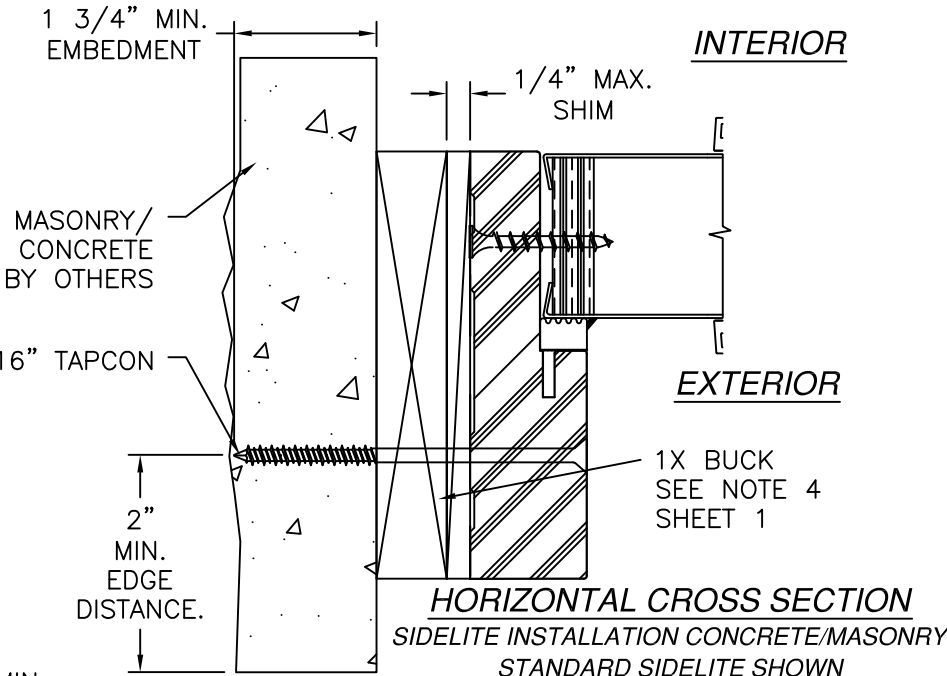
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DOOR INSTALLATION MASONRY/CONCRETE



EXTERIOR INTERIOR



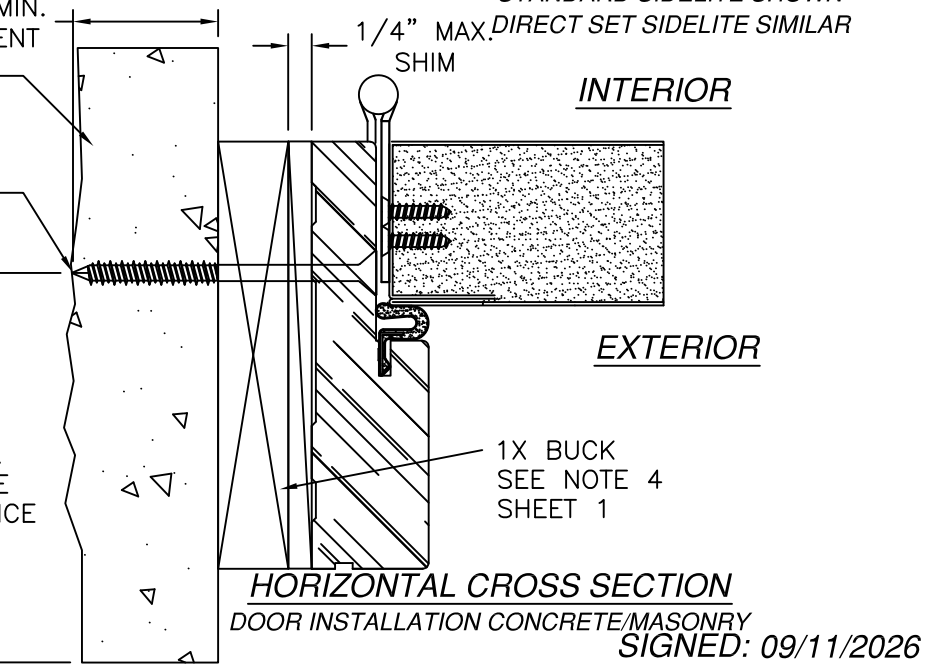
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SIDELITE INSTALLATION MASONRY/CONCRETE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



INTERIOR

EXTERIOR

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



INTERIOR

EXTERIOR

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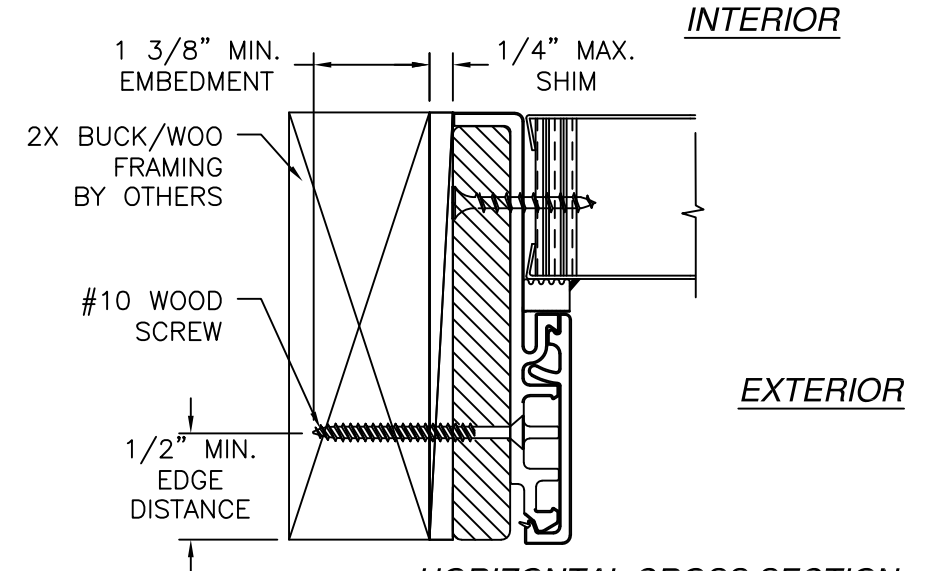
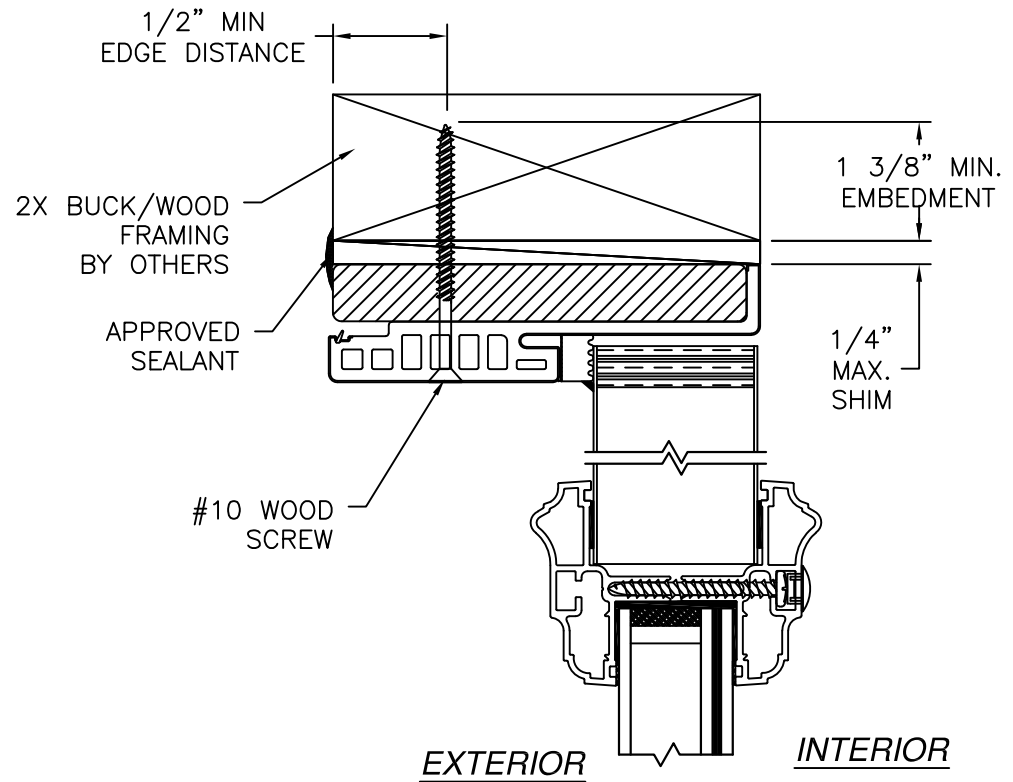
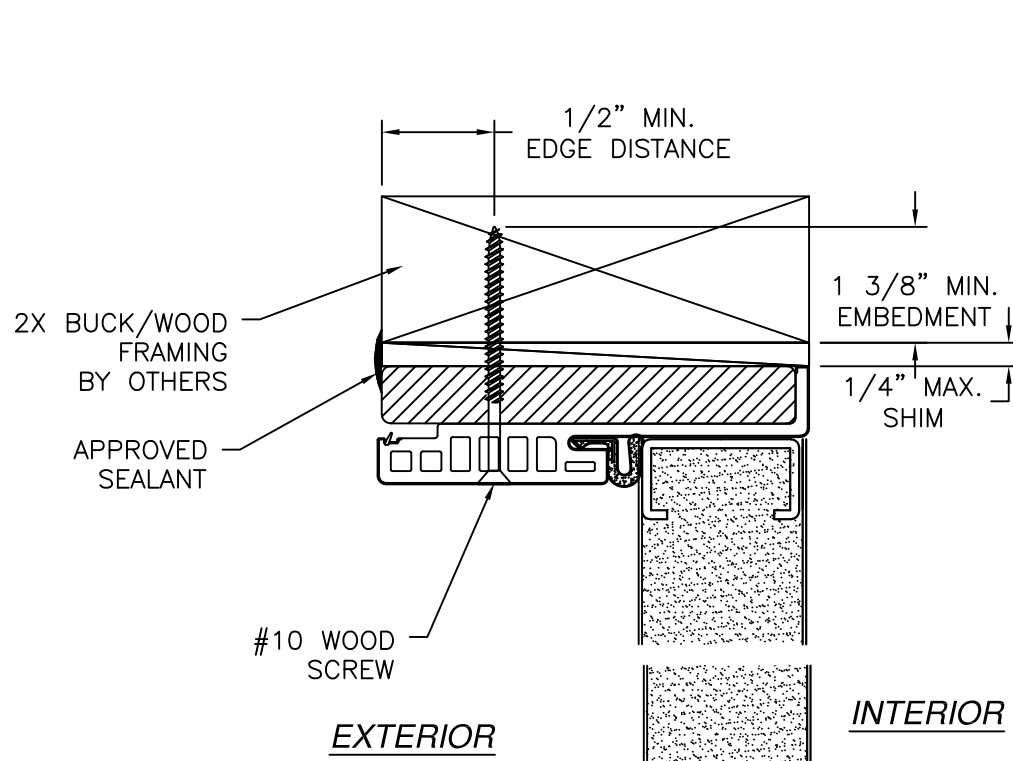
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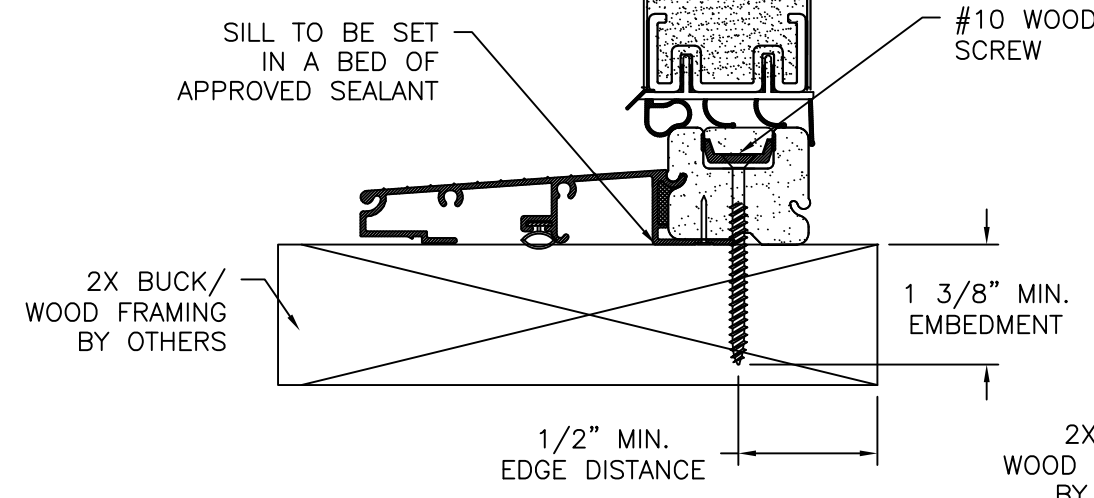
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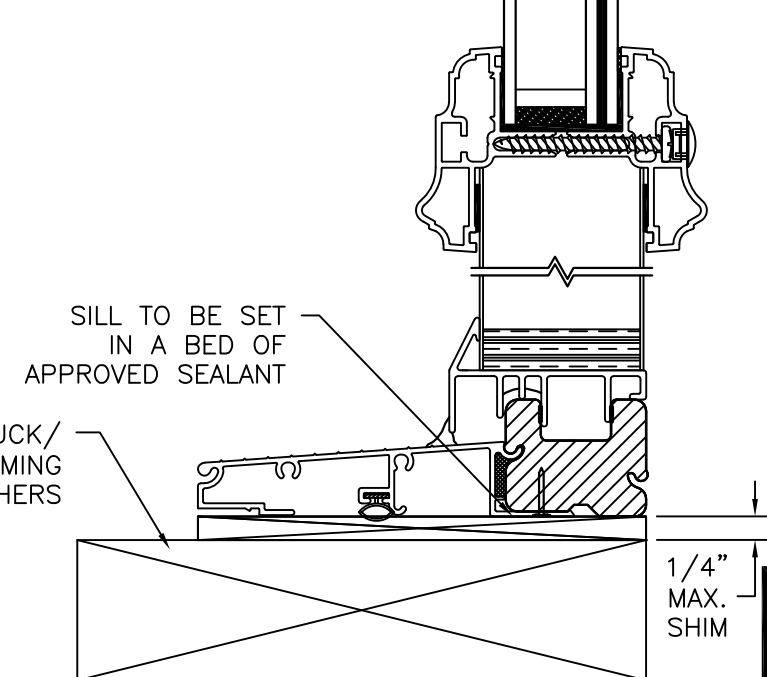
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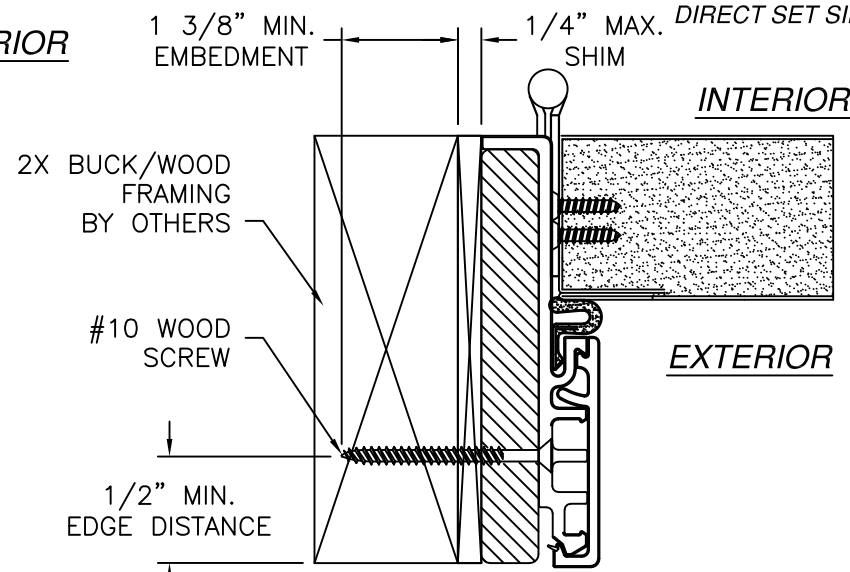
HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



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



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

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W/SIDELITES - IMPACT
INSTALLATION DETAILS W/FUSION FRAME

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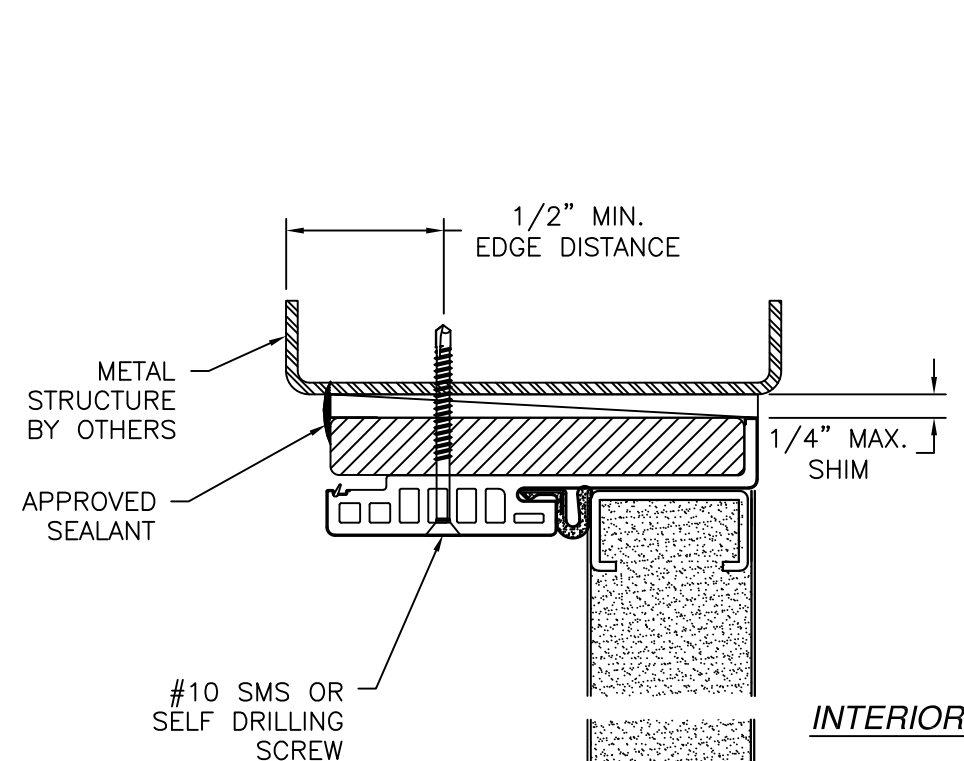
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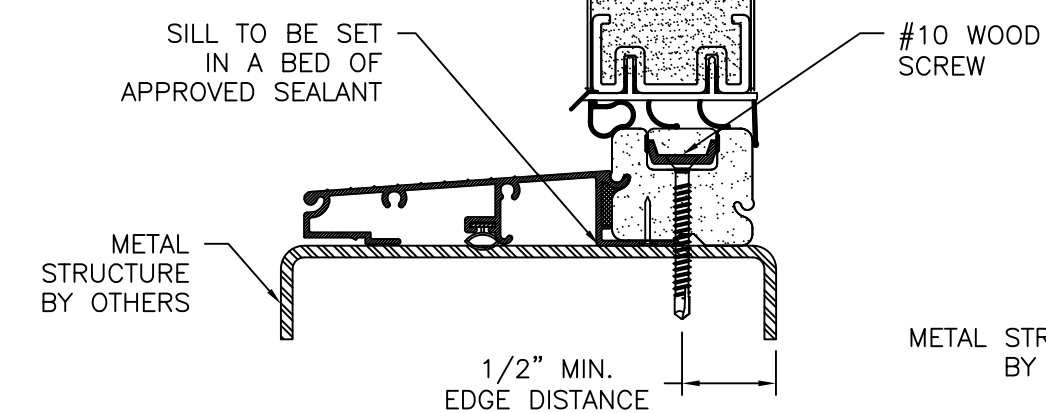
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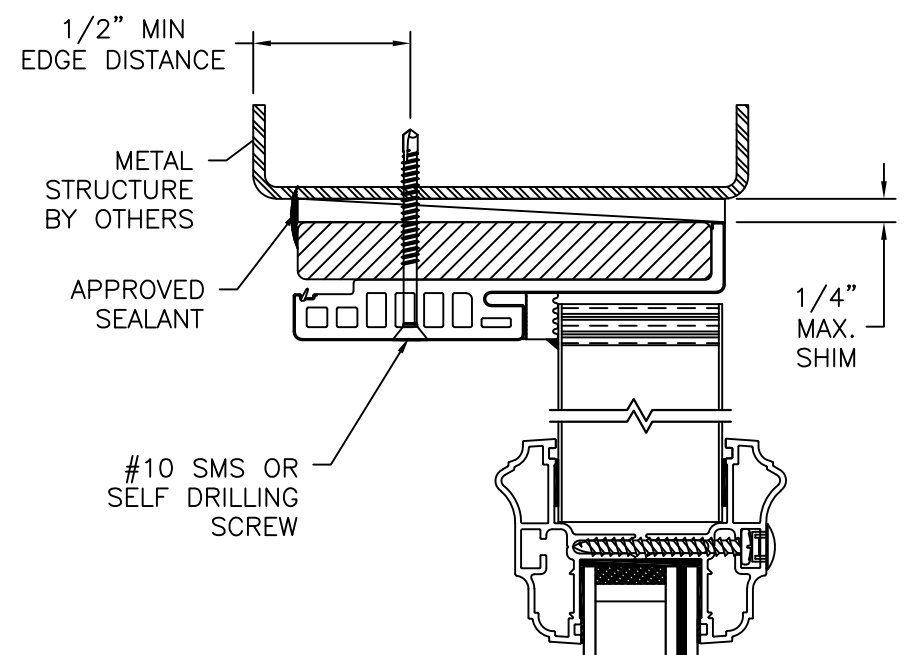
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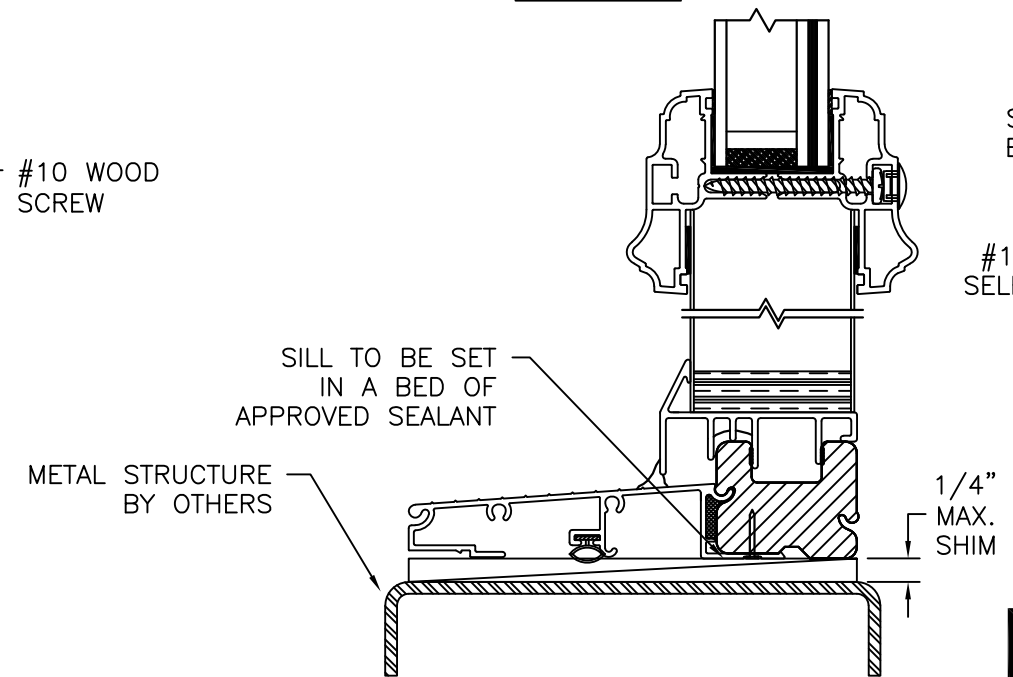
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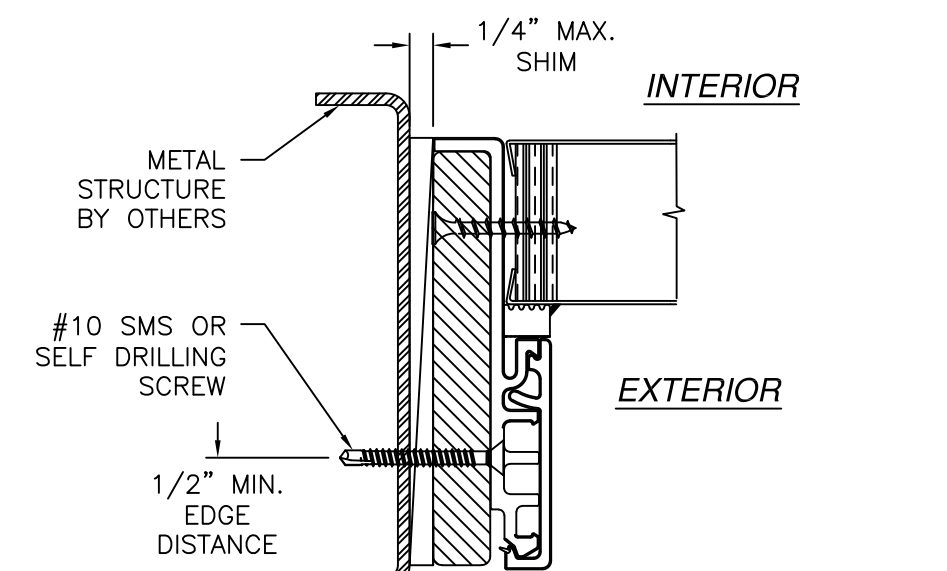
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DOOR INSTALLATION - METAL STRUCTURE



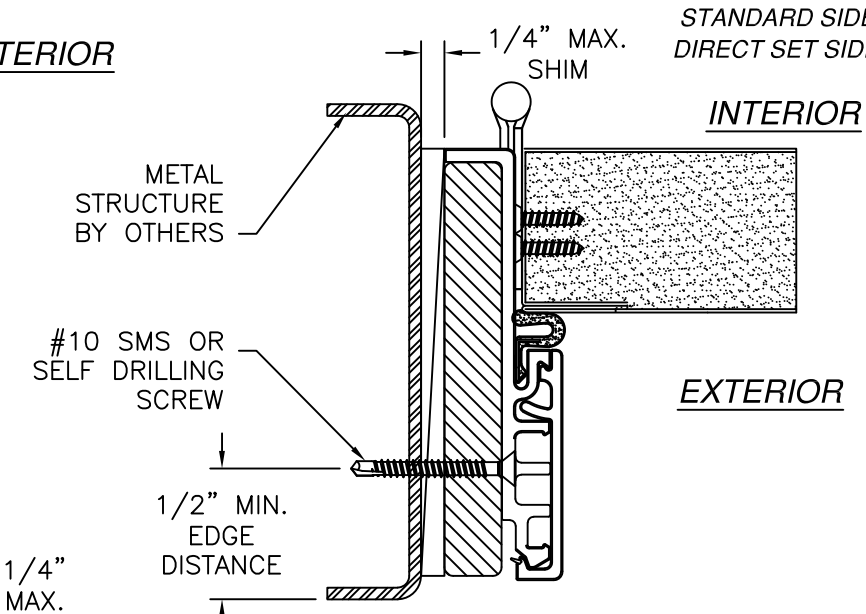
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VERTICAL CROSS SECTION
SIDELITE INSTALLATION METAL STRUCTURE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



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



HORIZONTAL CROSS SECTION
DOOR INSTALLATION - METAL STRUCTURE

- 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 – IMPACT
INSTALLATION DETAILS W/FUSION FRAME

DRAWN: V.L.

DWG NO. 08-02038

REV J

SCALE NTS

DATE 04/22/13

SHEET 9 OF 17

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/11/2026

LUIS R. LOMAS

LICENS. M. S.

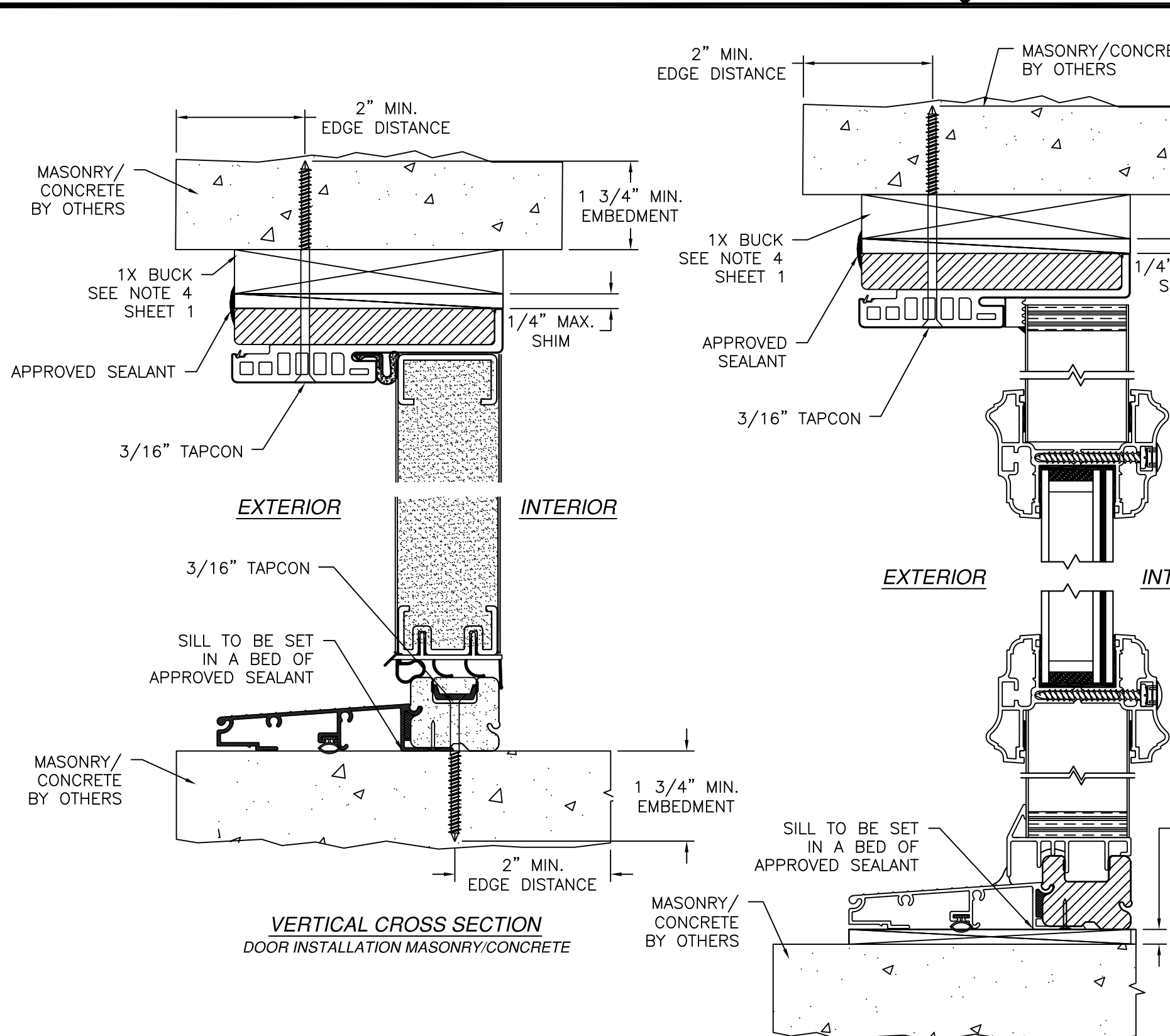
No. 62514

STATE OF FLORIDA

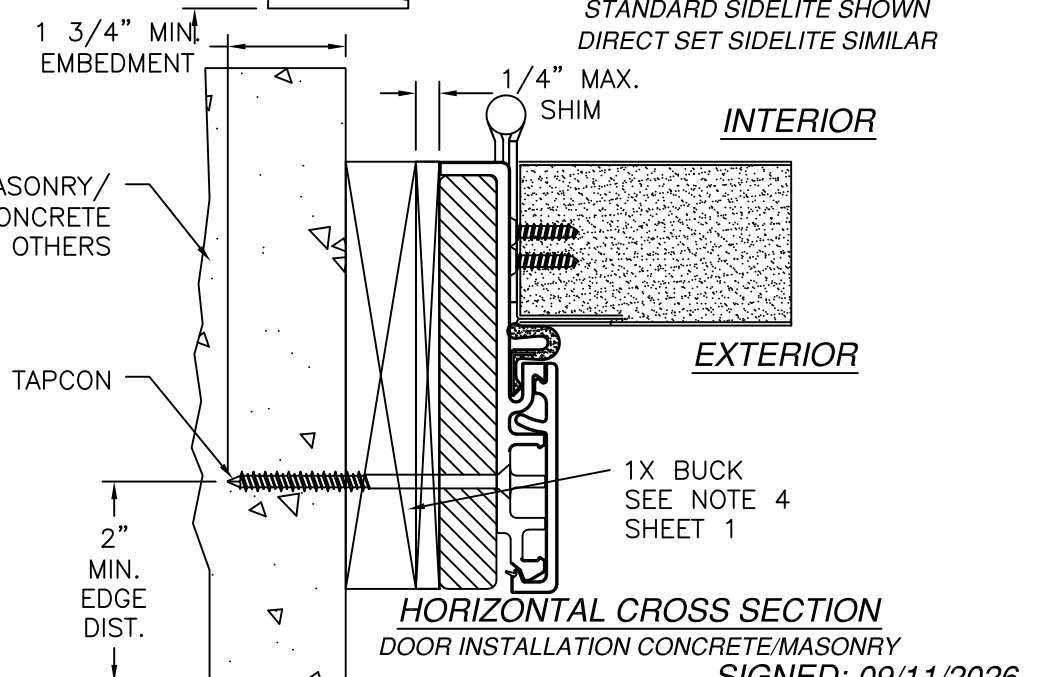
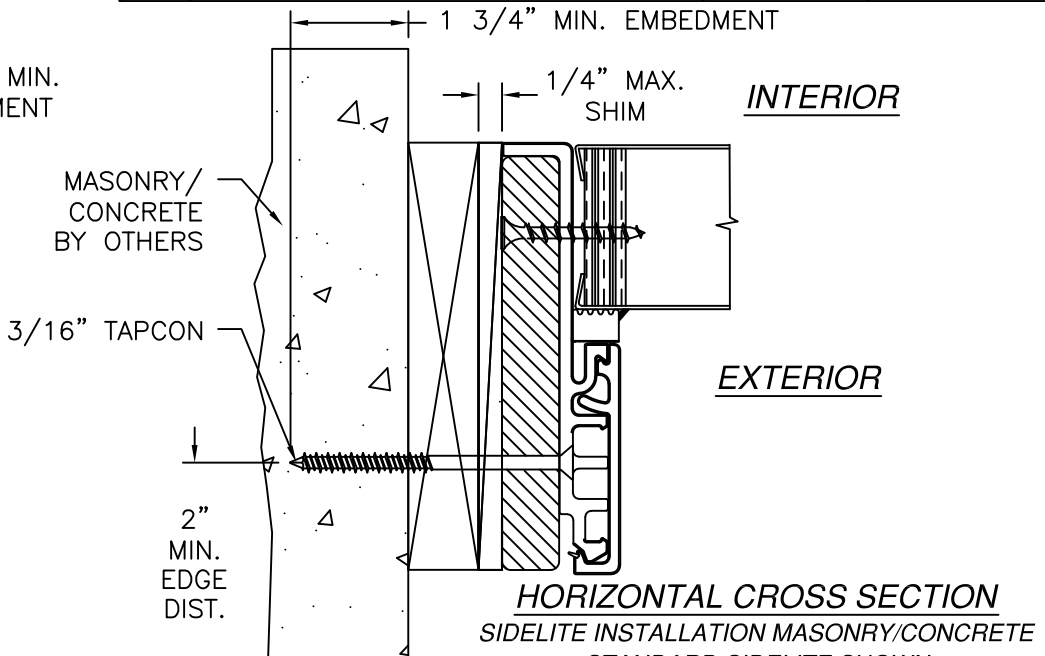
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.

FL No.: 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



VERTICAL CROSS SECTION
DOOR INSTALLATION MASONRY/CONCRETE

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

- 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 - IMPACT
INSTALLATION DETAILS W/FUSION FRAME**

DRAWN: V.L.	DWG NO. 08-02038	REV J
SCALE NTS	DATE 04/22/13	SHEET 10 OF 17

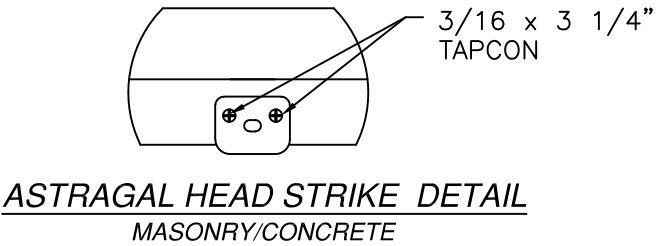
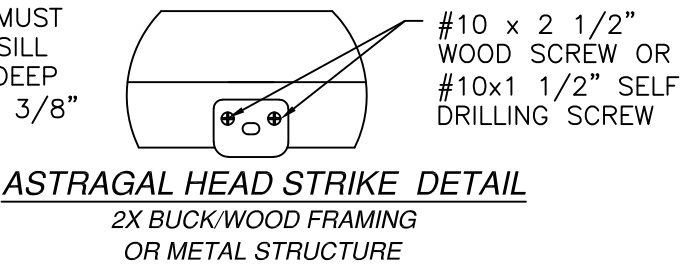
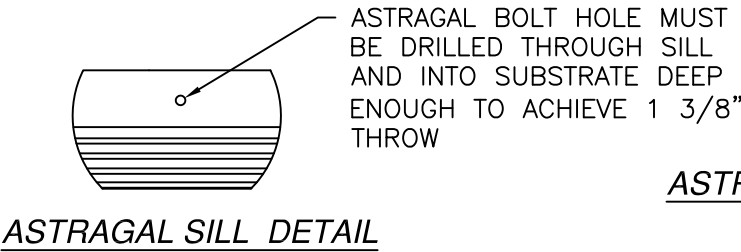
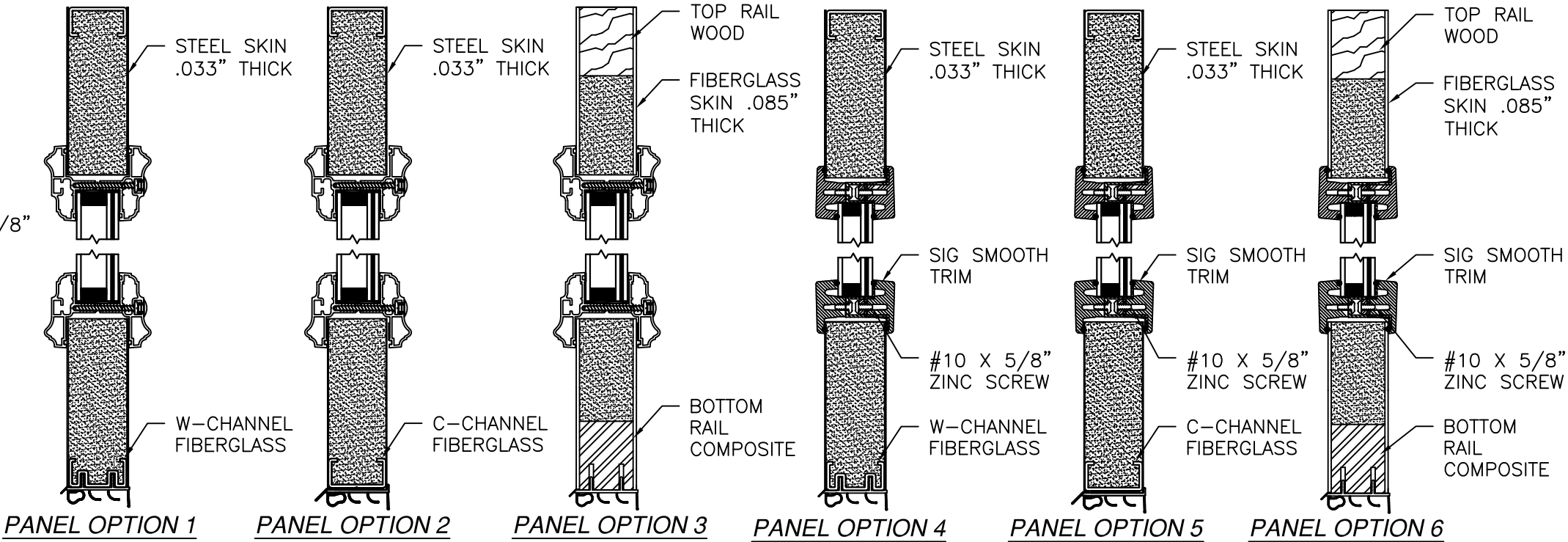
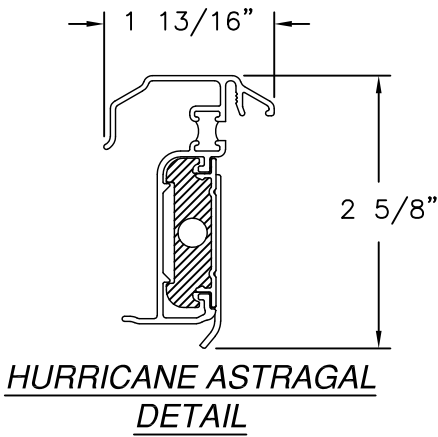
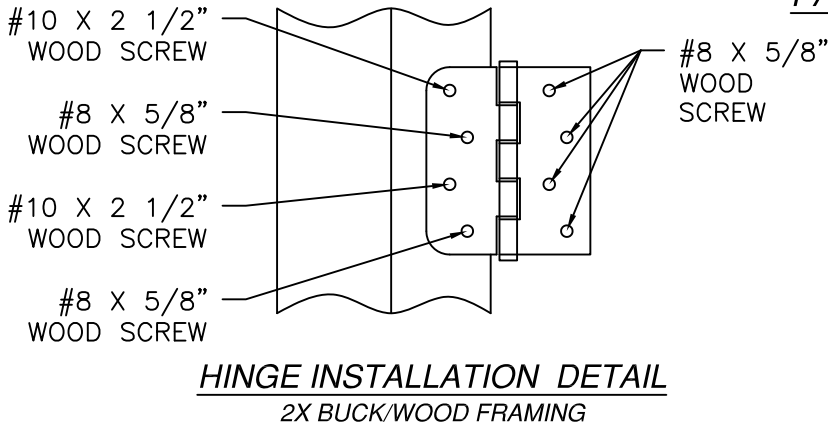
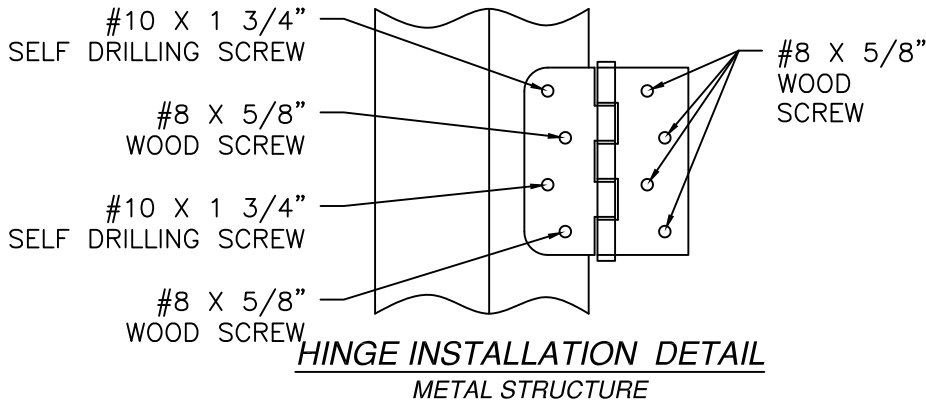
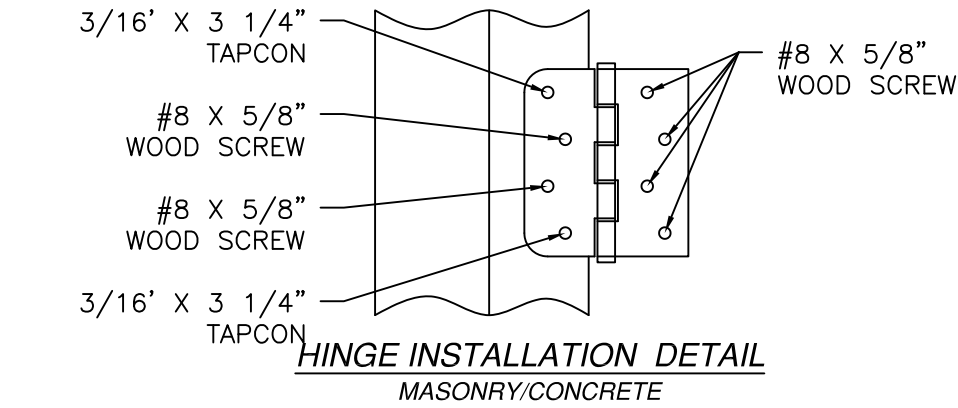
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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

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

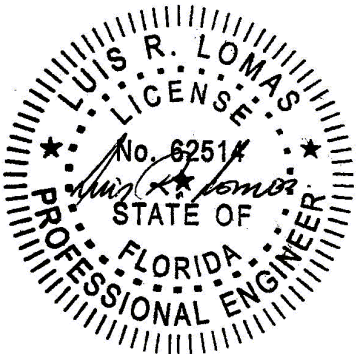
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REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.

APPROVED SIDELITE SLABS



SIGNED: 09/11/2026

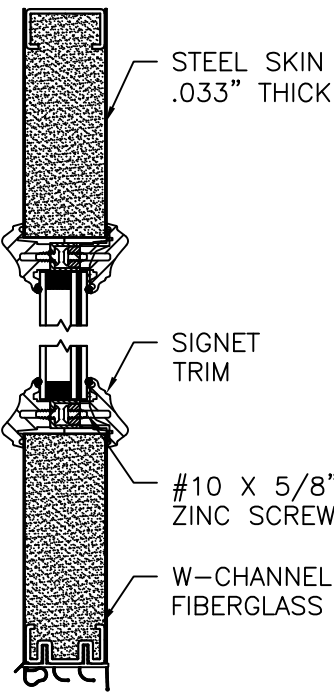
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES – IMPACT COMPONENTS DETAILS		
DRAWN: V.L.	DWG NO. 08-02038	REV J
SCALE NTS	DATE 04/22/13	SHEET 12 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



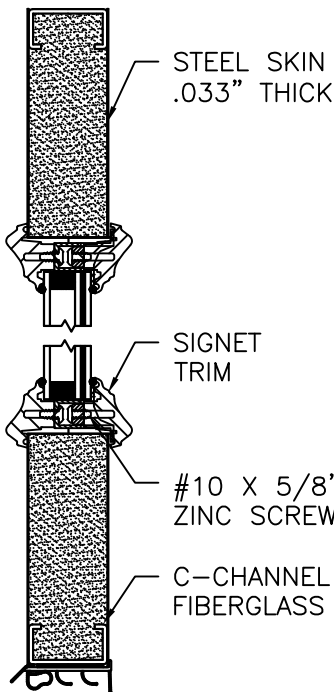
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SIDELITE SLABS

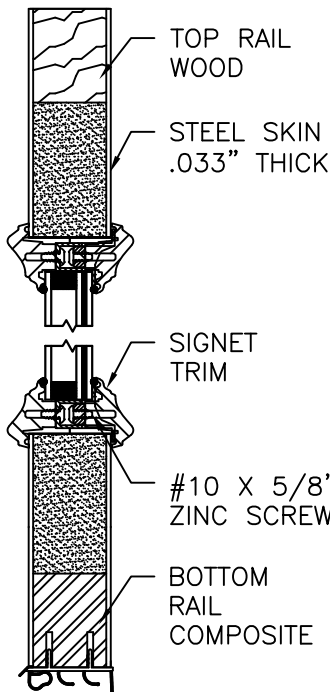
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REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



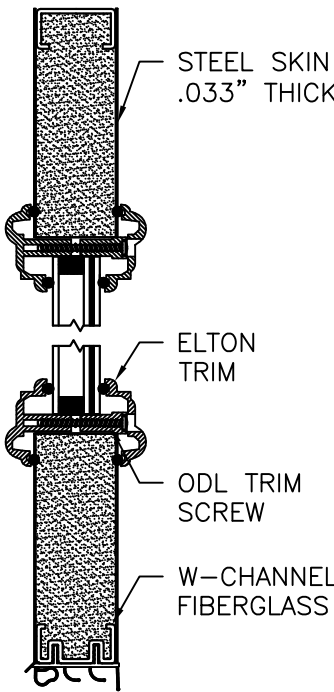
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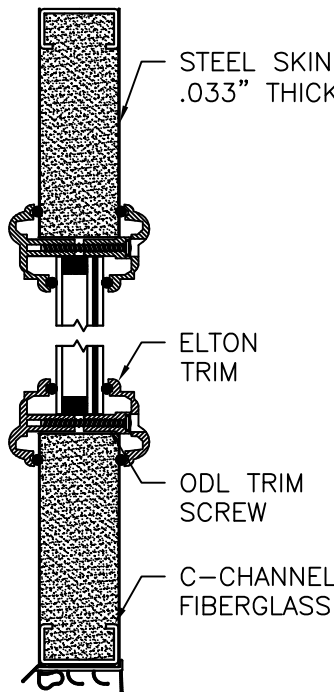
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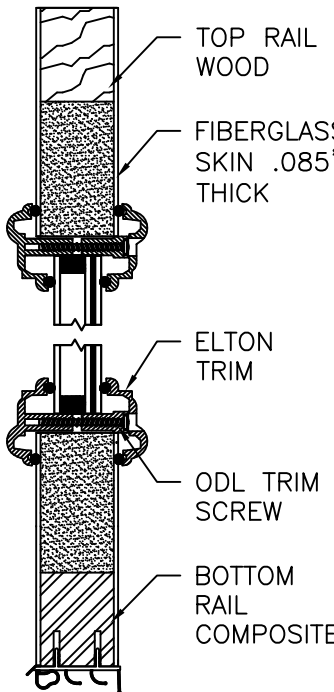
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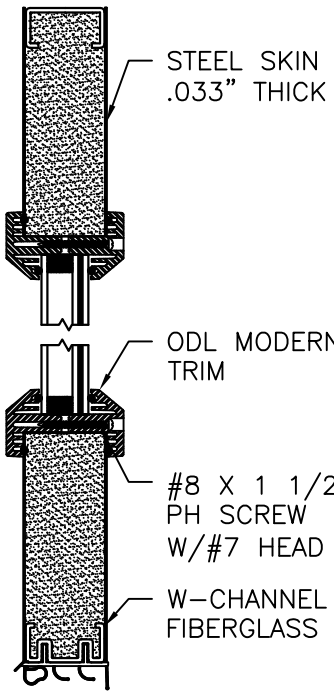
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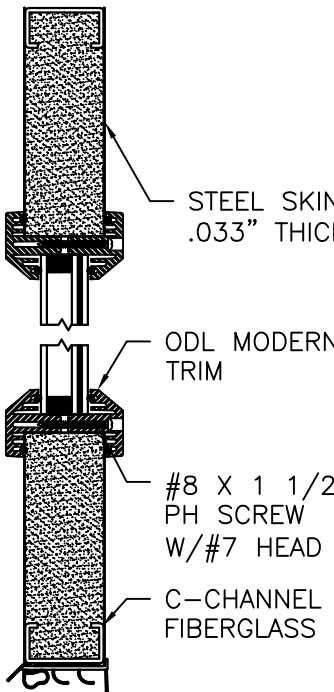
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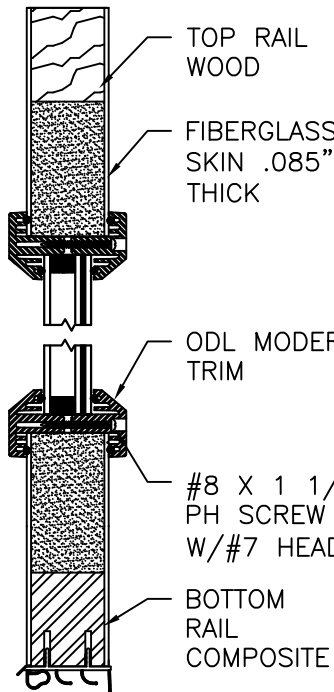
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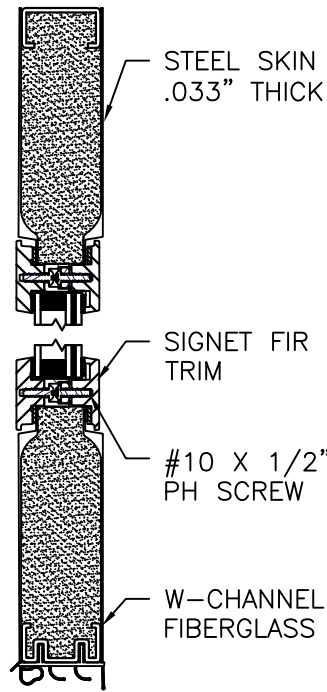
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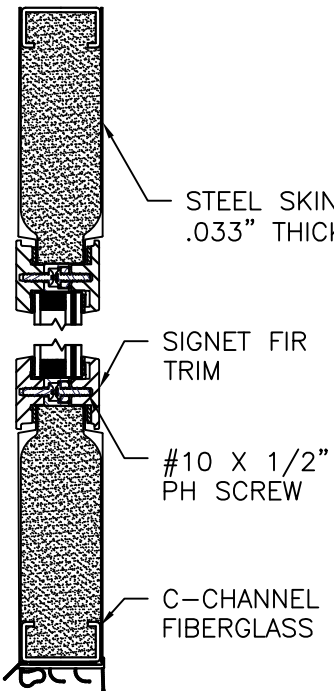
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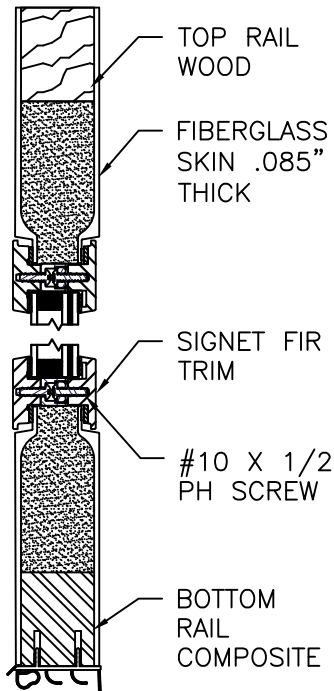
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PANEL OPTION 16



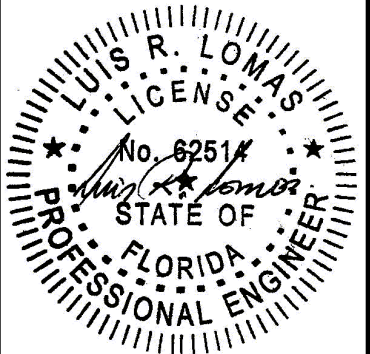
PANEL OPTION 17



PANEL OPTION 18

SIGNED: 09/11/2026

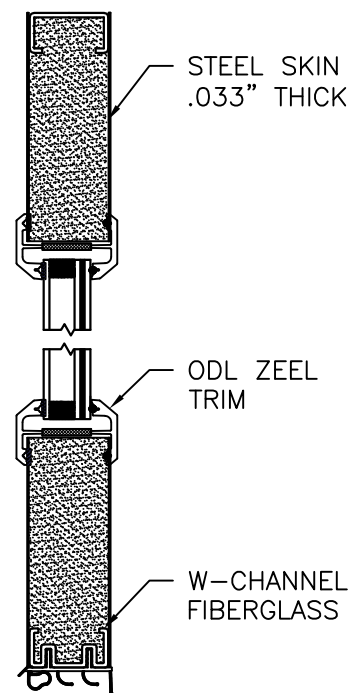
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES - IMPACT APPROVED SLABS		
DRAWN: V.L.	DWG NO. 08-02038	REV J
SCALE NTS	DATE 04/22/13	SHEET 13 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



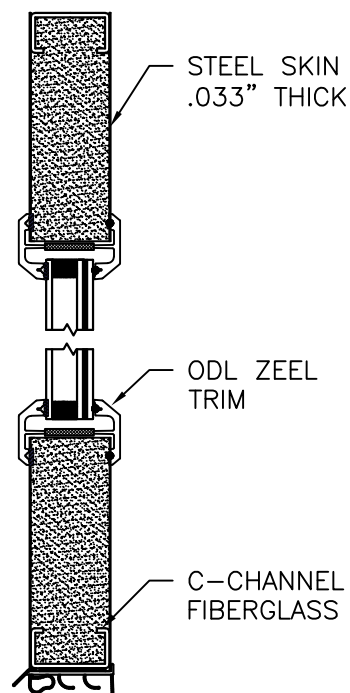
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SIDELITE SLABS

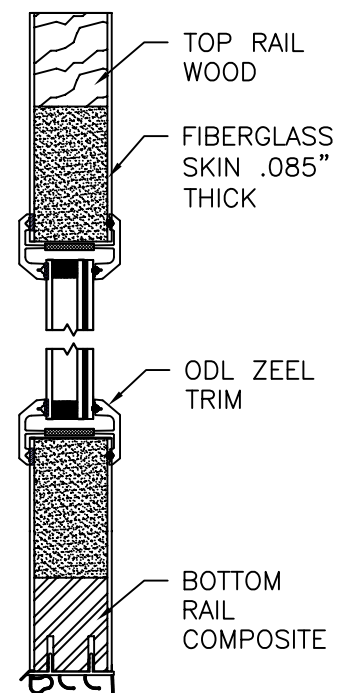
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



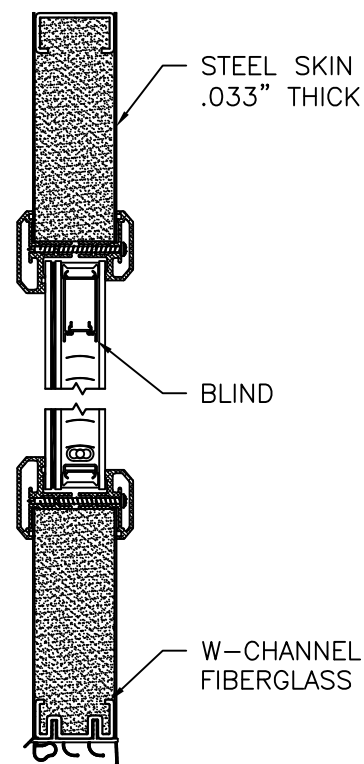
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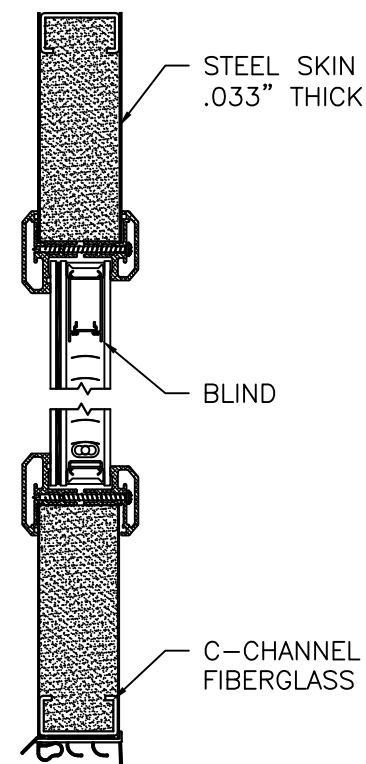
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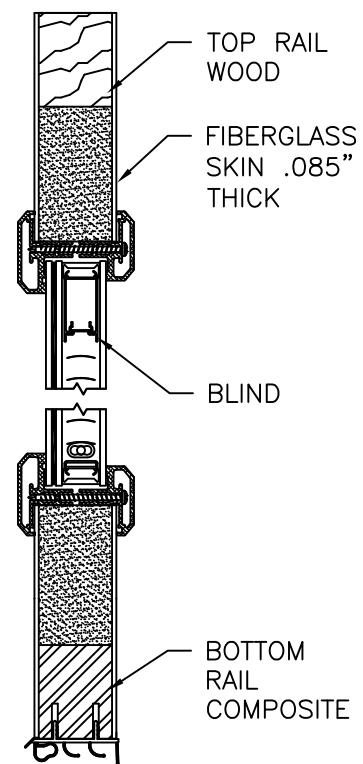
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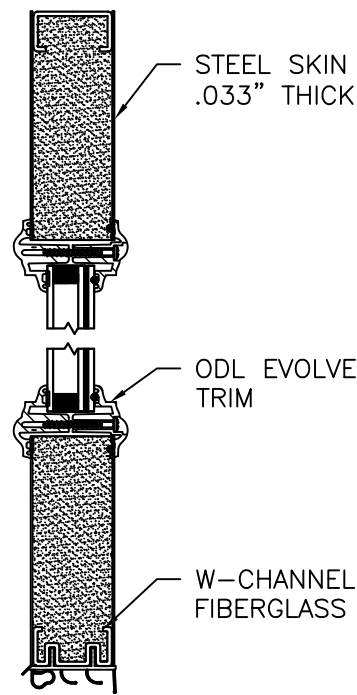
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GLAZED BLINDS



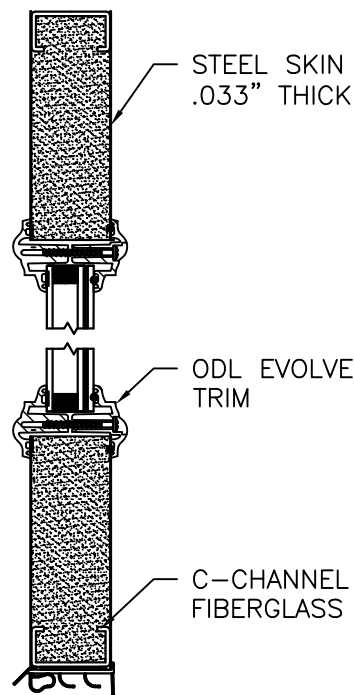
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SEVERE WEATHER DUAL
GLAZED BLINDS



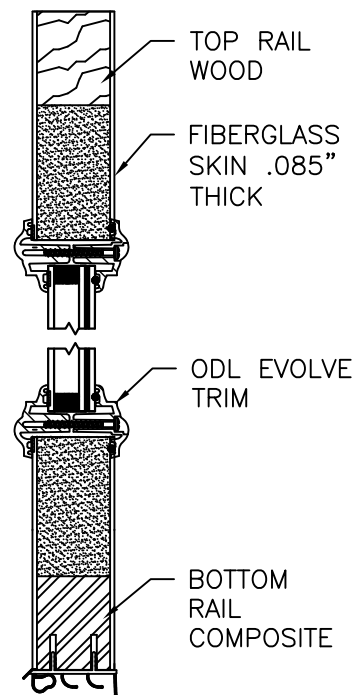
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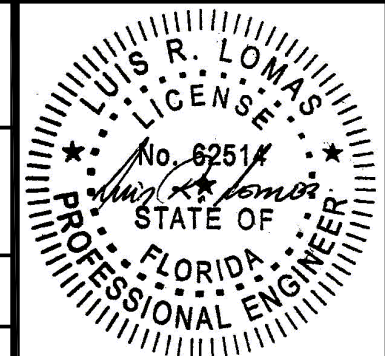
PANEL OPTION 23



PANEL OPTION 24

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES - IMPACT APPROVED SLABS		
DRAWN: V.L.	DWG NO. 08-02038	REV J
SCALE NTS	DATE 04/22/13	SHEET 14 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

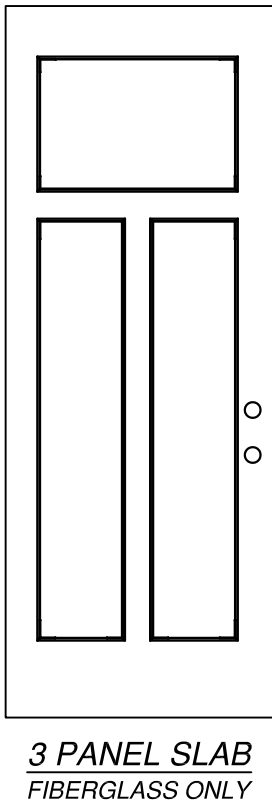
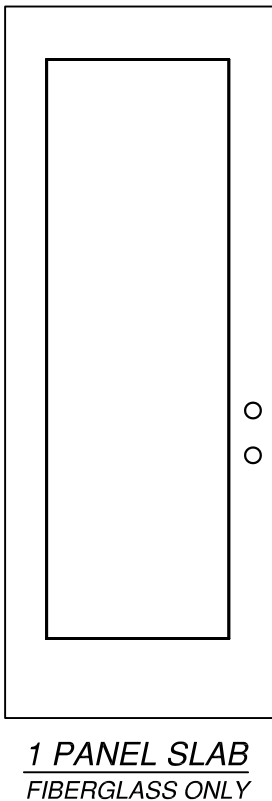
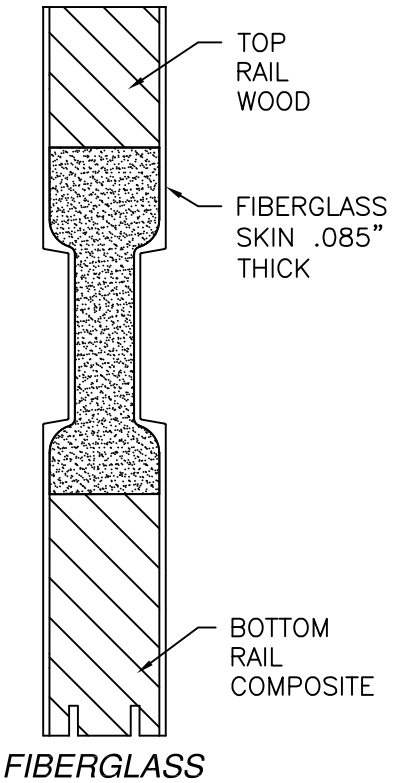
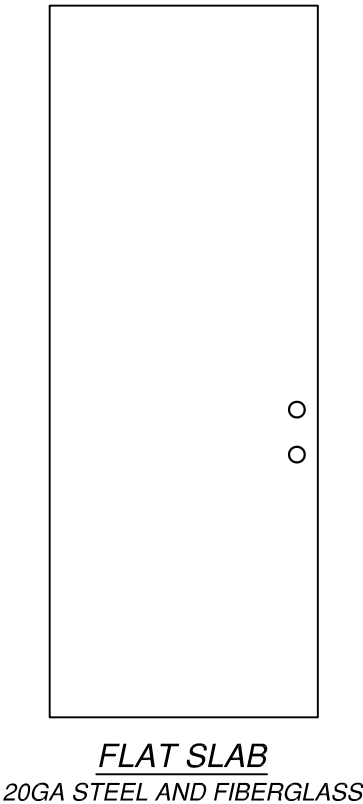
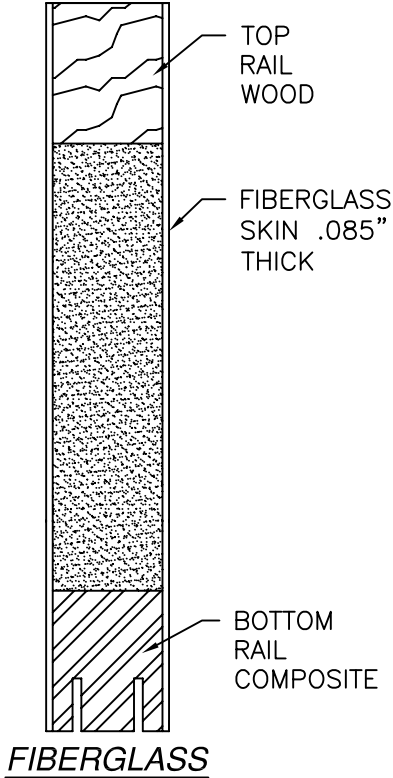
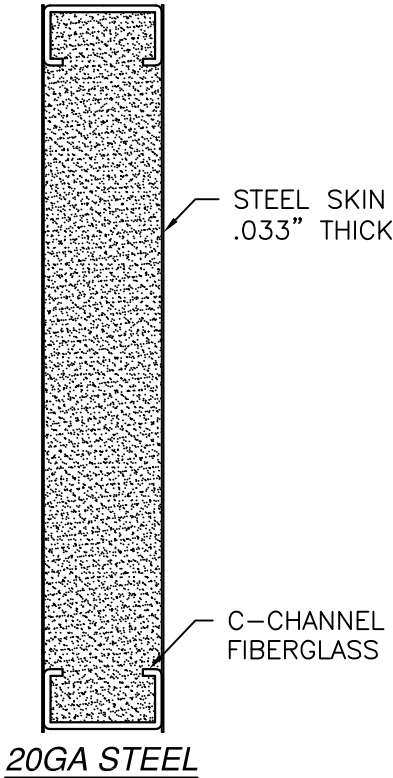
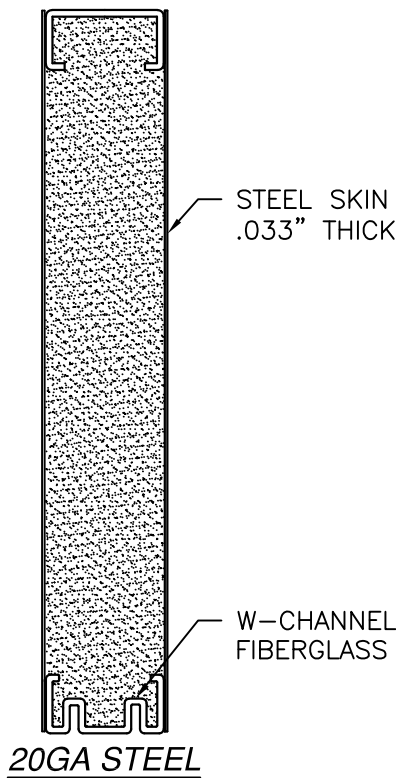
SIGNED: 09/11/2026



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

APPROVED DOOR SLABS AND CROSS SECTIONS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



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

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES – IMPACT
APPROVED SLABS

DRAWN:
V.L.

DWG NO.
08-02038

REV
J

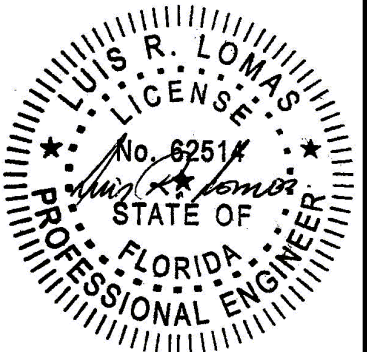
SCALE NTS

DATE 04/22/13

SHEET 15 OF 17

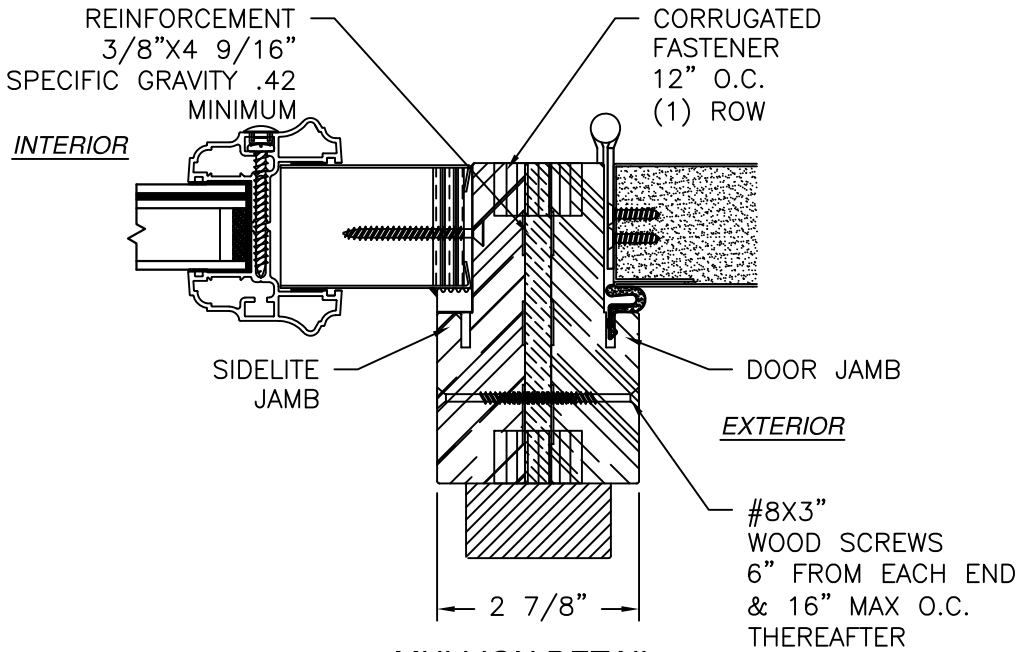
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/11/2026

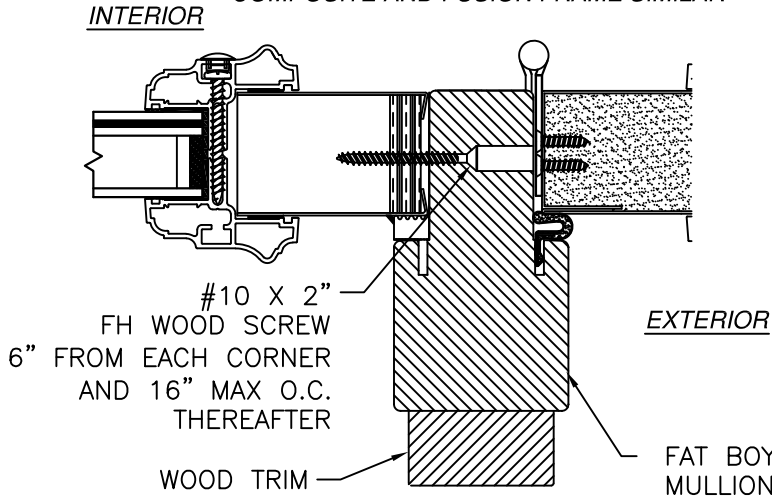


Luis R. Lomas P.E.
FL No.: 62514

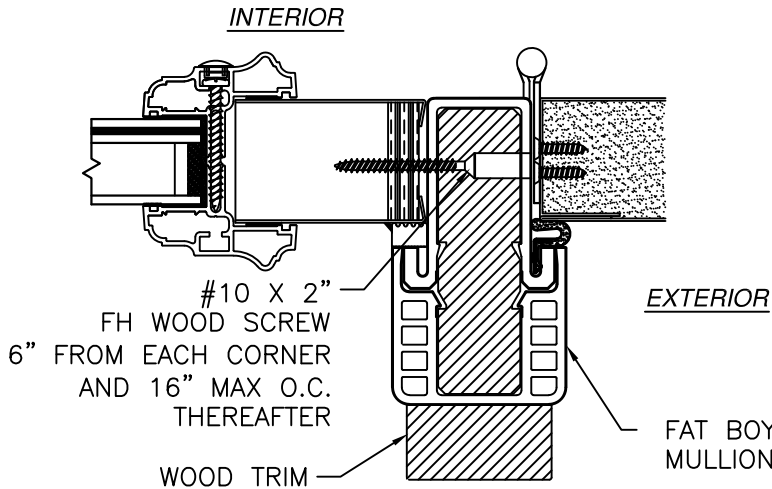
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.



MULLION DETAIL
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



MULLION DETAIL
WITH FAT BOY MULLION



MULLION DETAIL
WITH HYBRID FAT BOY MULLION

SIGNED: 09/11/2026

PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES – IMPACT
MULLION DETAILS

DRAWN:
V.L.

DWG NO.
08-02038

REV
J

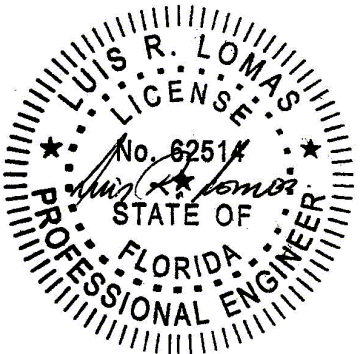
SCALE
NTS

DATE
04/22/13

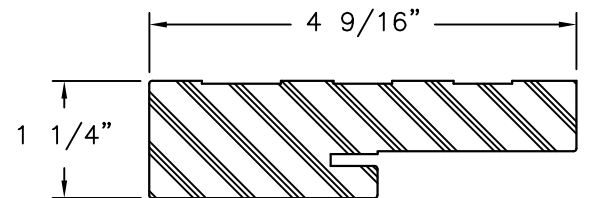
SHEET
16 OF 17

L. ROBERTO LOMAS P.E.

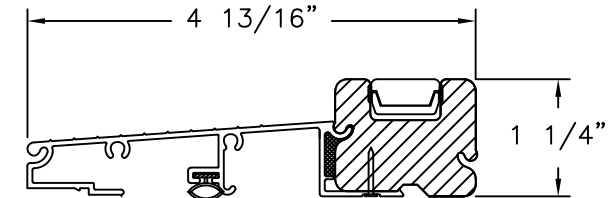
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



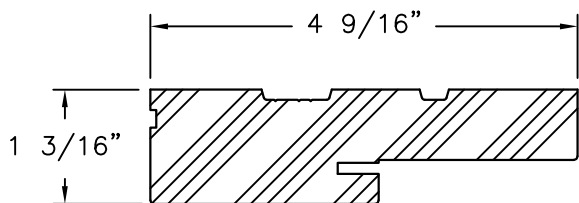
Luis R. Lomas P.E.
FL No.: 62514



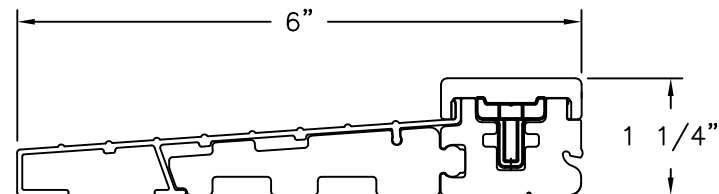
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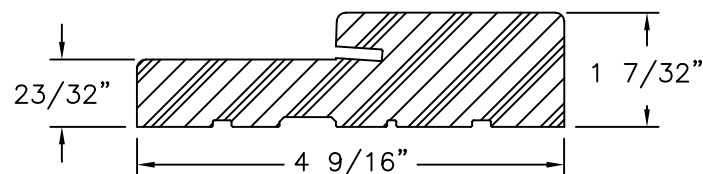
SAHARA INSWING THRESHOLD



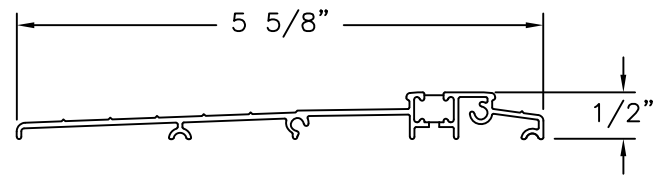
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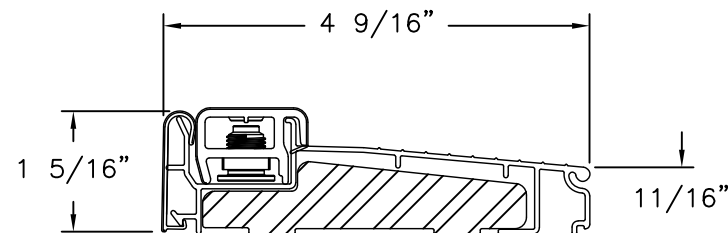
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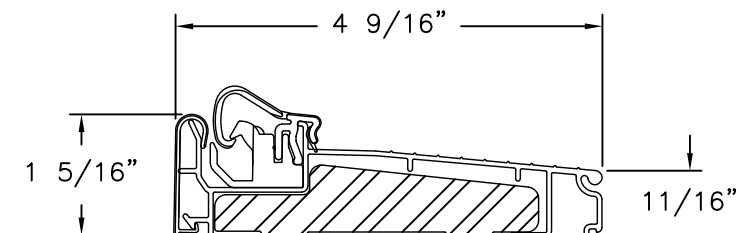
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COMPOSITE



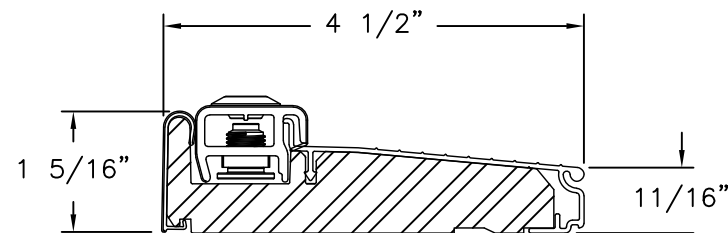
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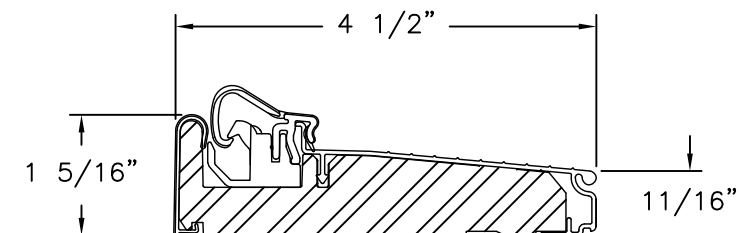
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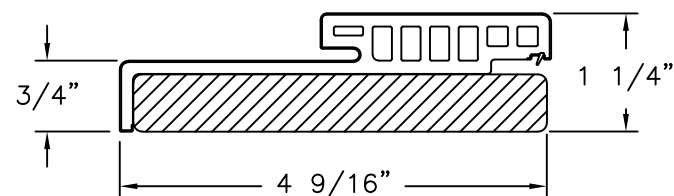
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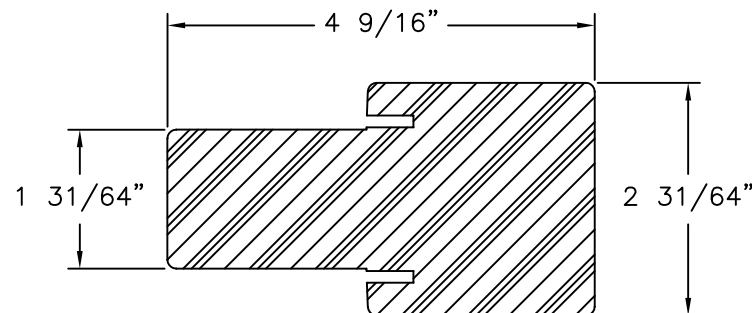
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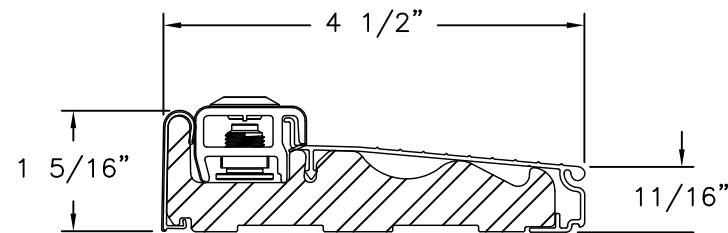
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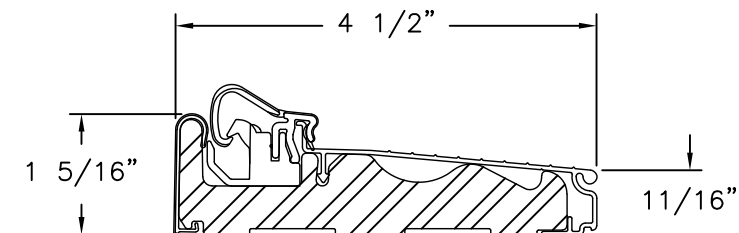
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WOOD/COMPOSITE



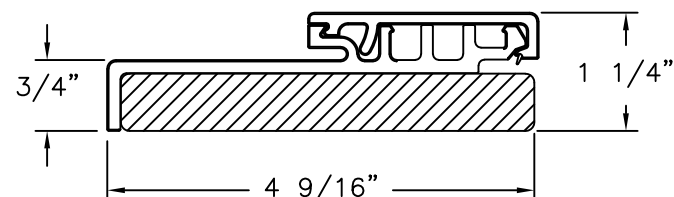
FAT BOY MULLION
COMPOSITE



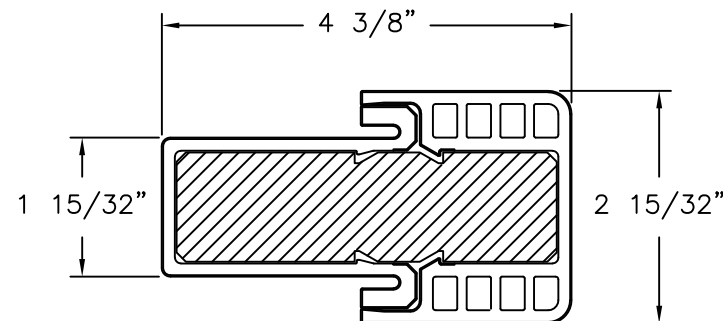
INSWING SILL ZAILH4565



INSWING SILL ZACLH4565



HYBRID JAMB
WOOD/COMPOSITE



HYBRID FAT BOY MULLION
COMPOSITE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISED HARDWARE SCHEDULE	09/11/26	R.L.

SIGNED: 09/11/2026

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

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES – IMPACT
COMPONENTS

DRAWN:
V.L.

DWG NO.
08-02038

REV
J

SCALE
NTS

DATE
04/22/13

SHEET
17 OF 17

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

LUIS R. LOMAS
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No. 62514
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PROFESSIONAL ENGINEER

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