

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TRIMS AND HARDWARE SCHEDULE	11/14/2023	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, 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 AND TRANSOM MUST BE GLAZED PER ASTM E1300, SEE SHEET 12 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/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM – IMPACT
NOTES

DRAWN:
J.L.

DWG NO.
08-02040

REV
J

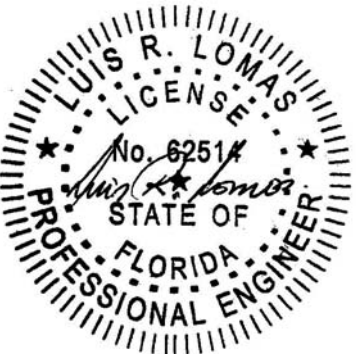
SCALE NTS

DATE 04/23/13

SHEET 1 OF 18

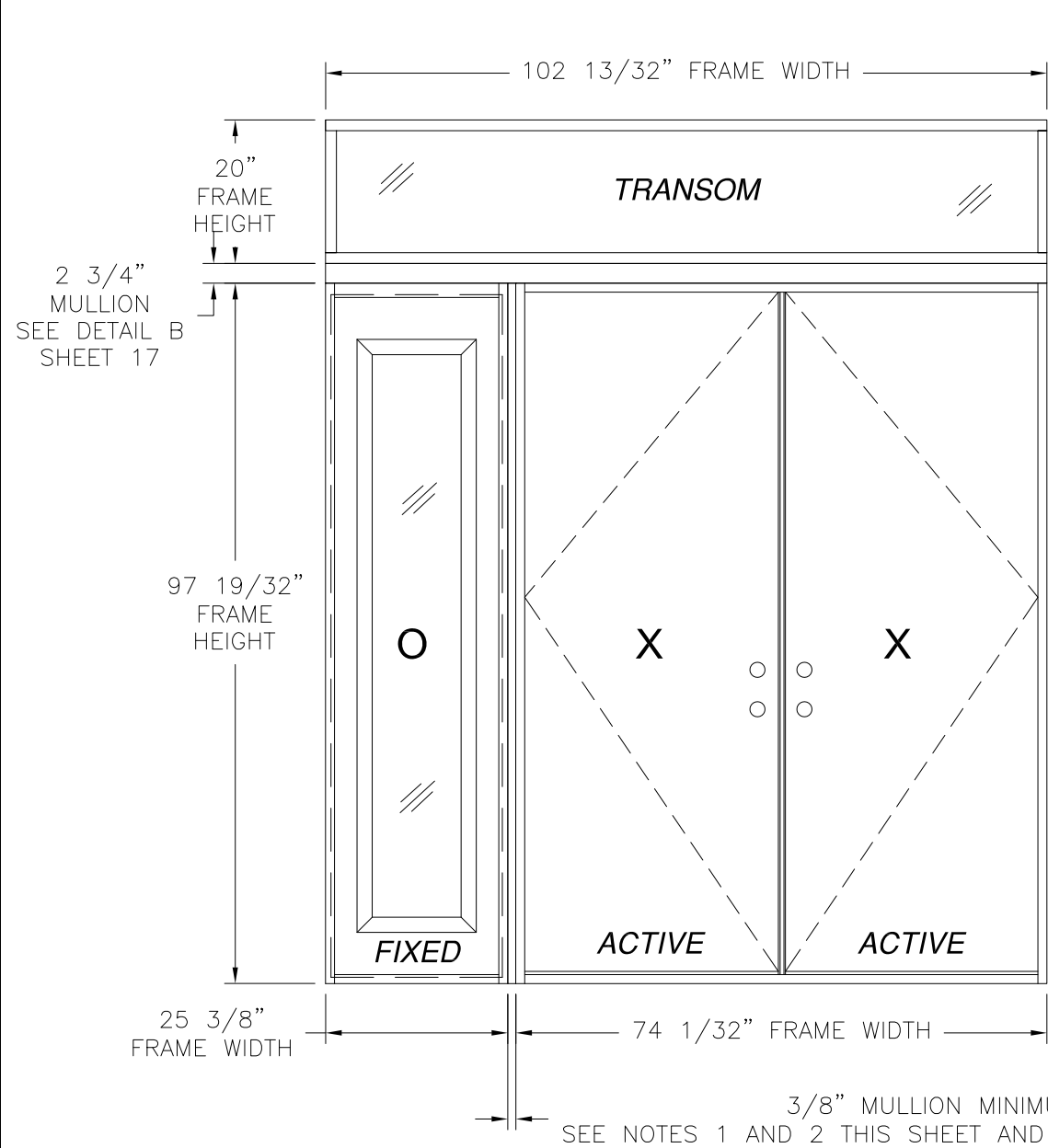
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/26/2023



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

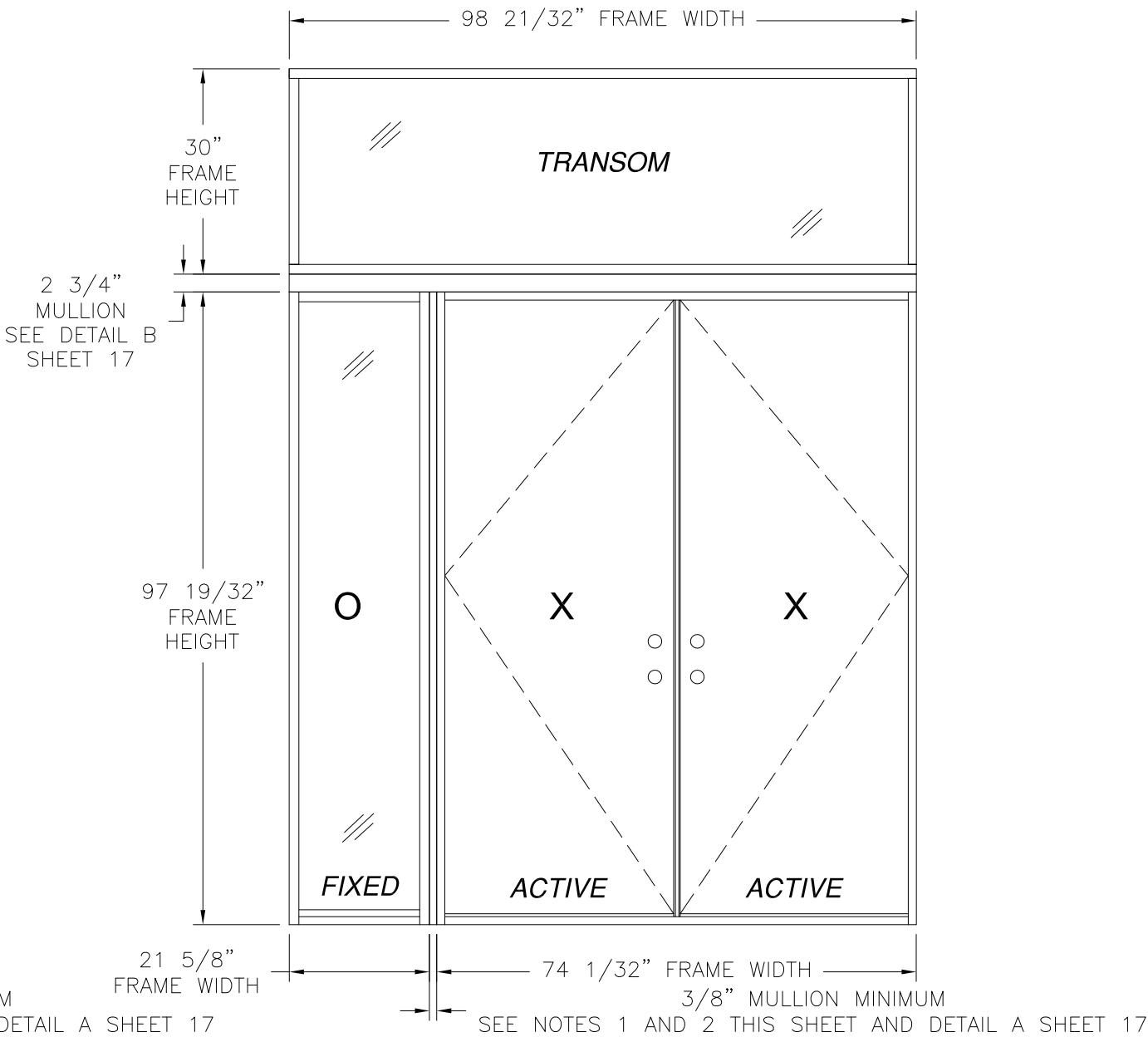
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DOUBLE DOOR W/ STD SIDELITE AND TRANSOM
EXTERIOR VIEW
OXX SHOWN XXO ALSO APPROVED

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3



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

WITH PANOLOCK MULTI-POINT

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

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

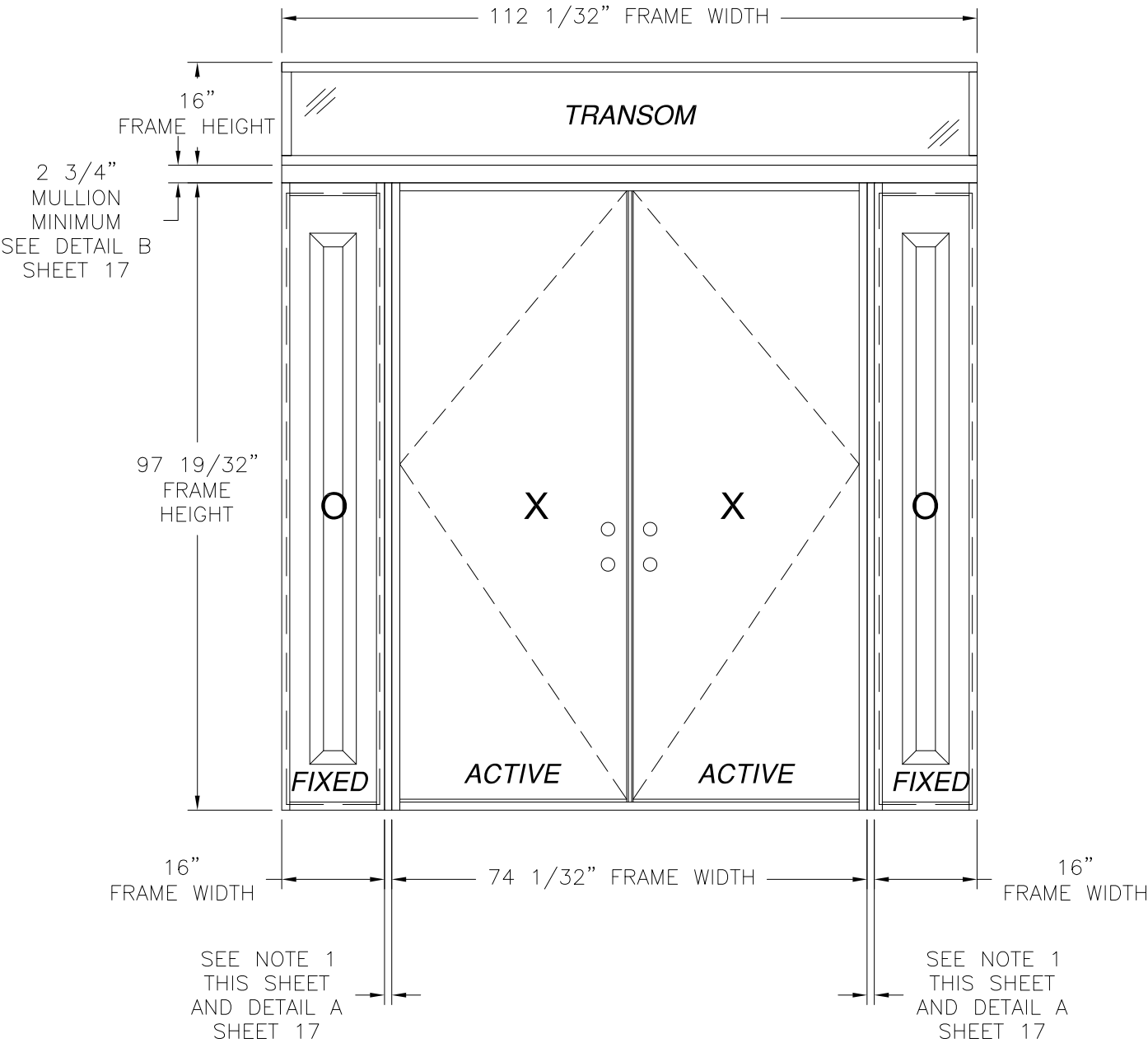
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM – IMPACT ELEVATIONS		
DRAWN: J.L.	DWG NO. 08-02040	REV J
SCALE NTS	DATE 04/23/13	SHEET 2 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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DOUBLE DOOR W/ STD SIDELITES AND TRANSOM
EXTERIOR VIEW

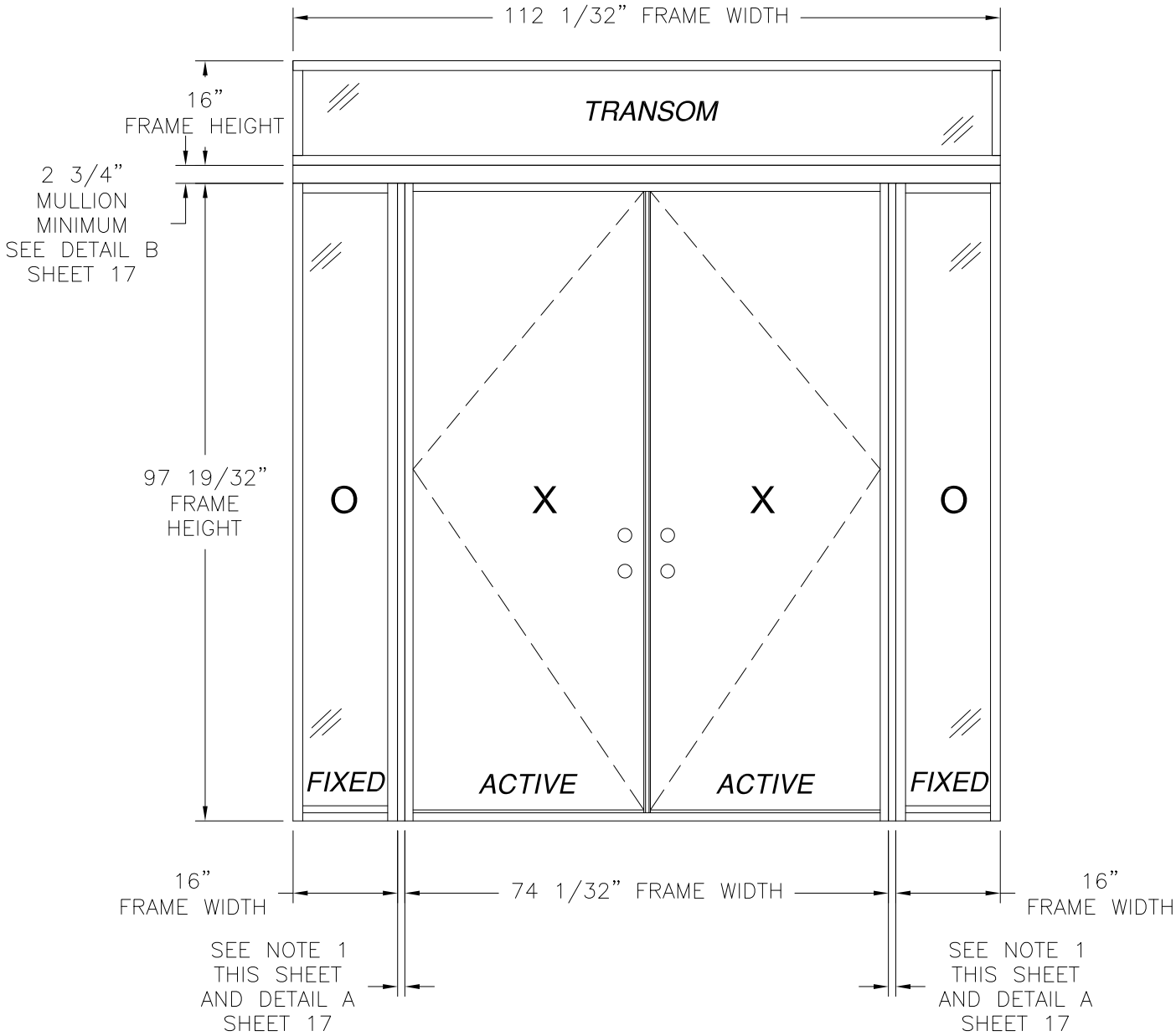
DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

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:
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DOUBLE DOOR W/ DIRECT SET SIDELITES AND TRANSOM
EXTERIOR VIEW

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2150 STATE ROUTE 39 WEST
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W/SIDELITES & TRANSOM – IMPACT
ELEVATIONS

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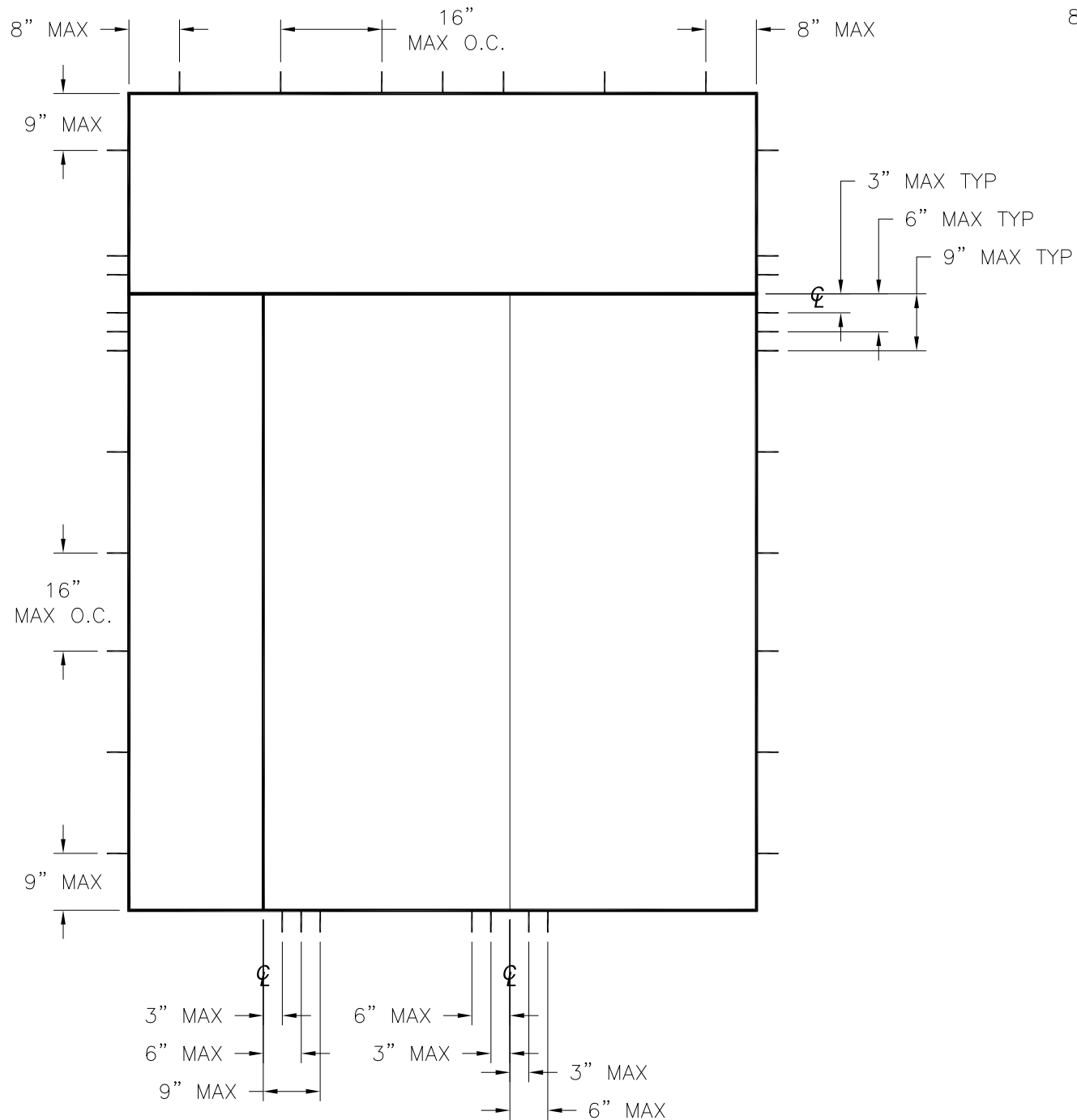
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434-688-0609 rllomas@rlomaspe.com

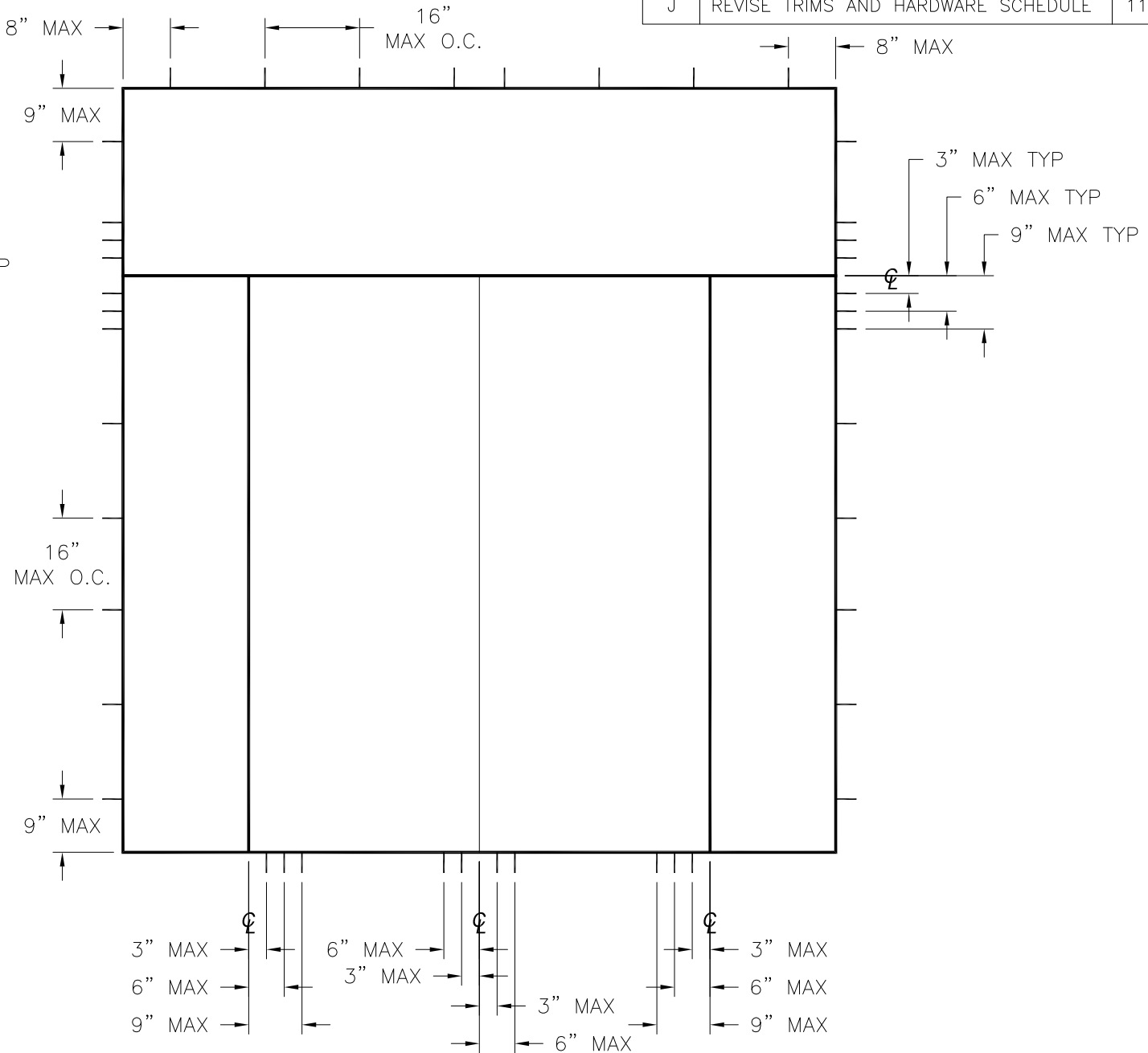


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DOUBLE DOOR W/SIDELITE AND TRANSOM
ANCHORING LAYOUT

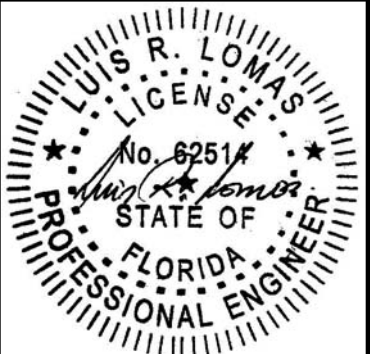


DOUBLE DOOR W/SIDELITES & TRANSOM
ANCHORING LAYOUT

SIGNED: 12/26/2023

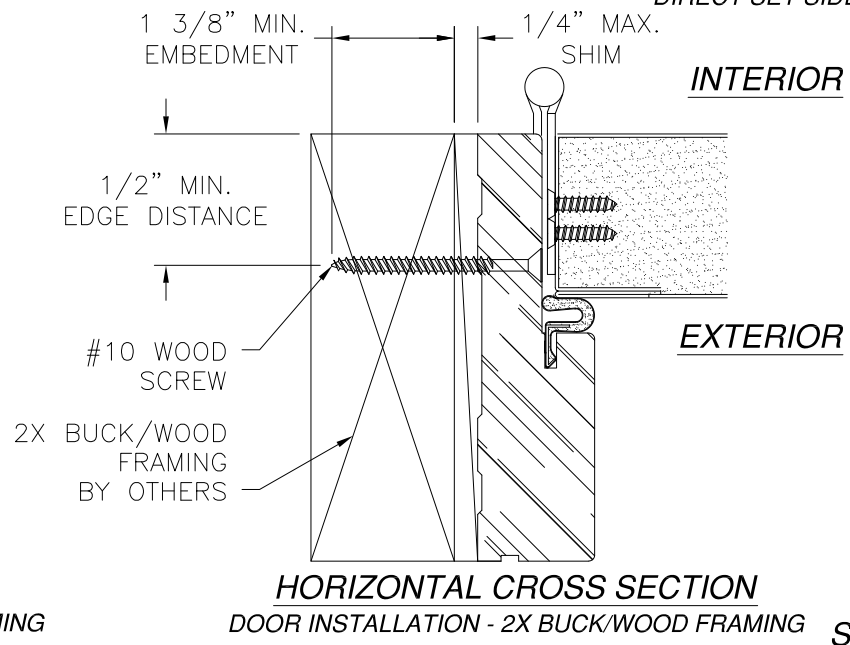
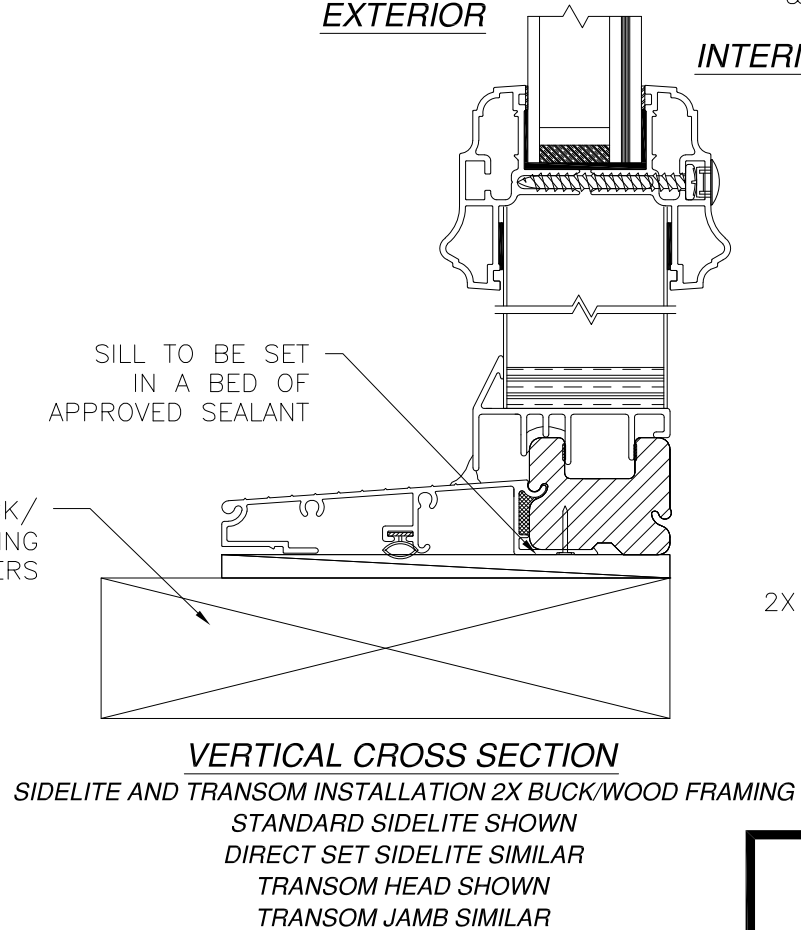
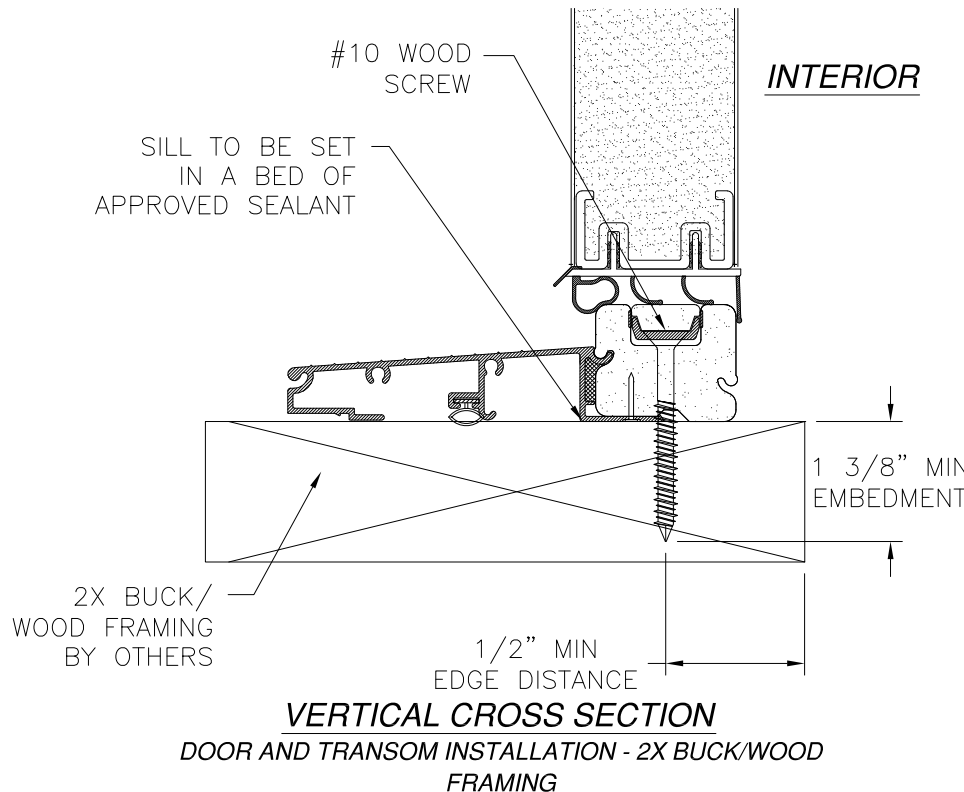
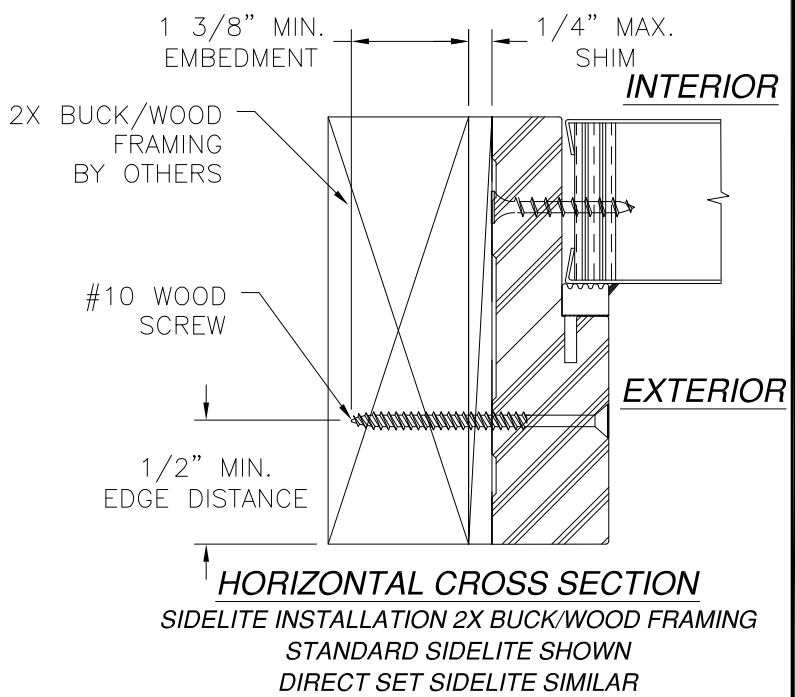
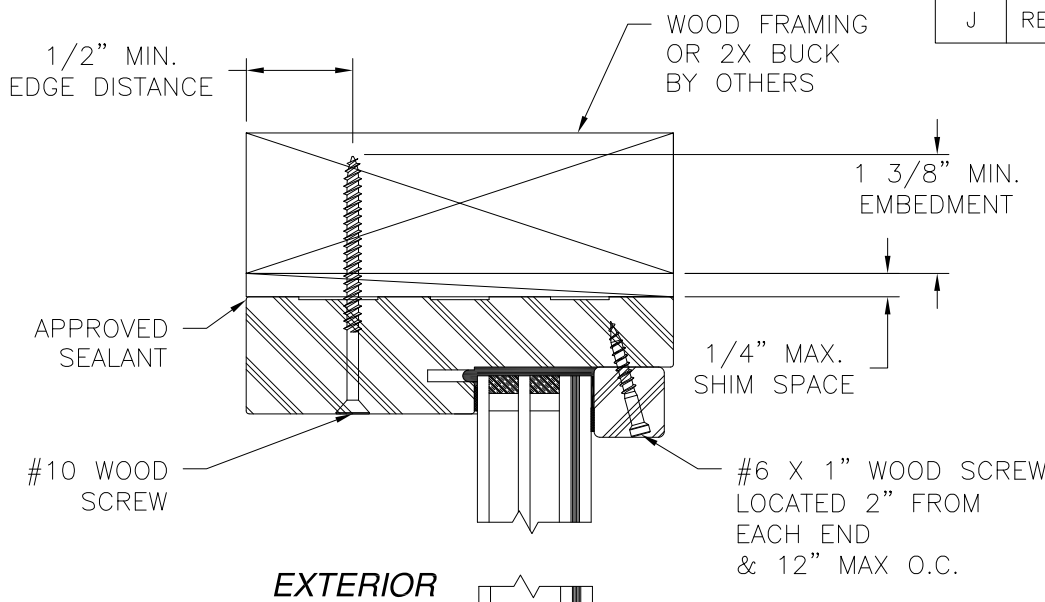
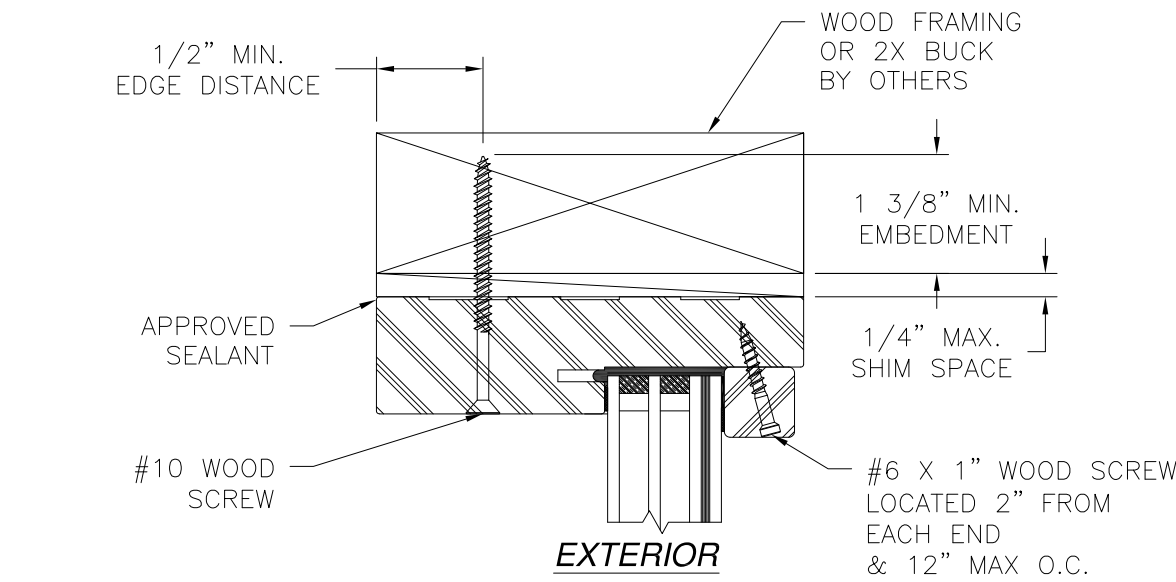
HARDWARE SCHEDULE	
A.	F-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE
B.	B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
C.	F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
D.	RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE)
E.	MULTI-POINT LOCK HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE)
F.	PANOLOCK MULTI-POINT LOCK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

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM – IMPACT ANCHORING LAYOUTS		
DRAWN: J.L.	DWG NO. 08-02040	REV J
SCALE NTS	DATE 04/23/13	SHEET 5 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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- NOTES:
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 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

DRAWN: J.L.

DWG NO. 08-02040

REV J

SCALE NTS

DATE 04/23/13

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L. ROBERTO LOMAS P.E.

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LUIS R. LOMAS

LICENS. M. S.

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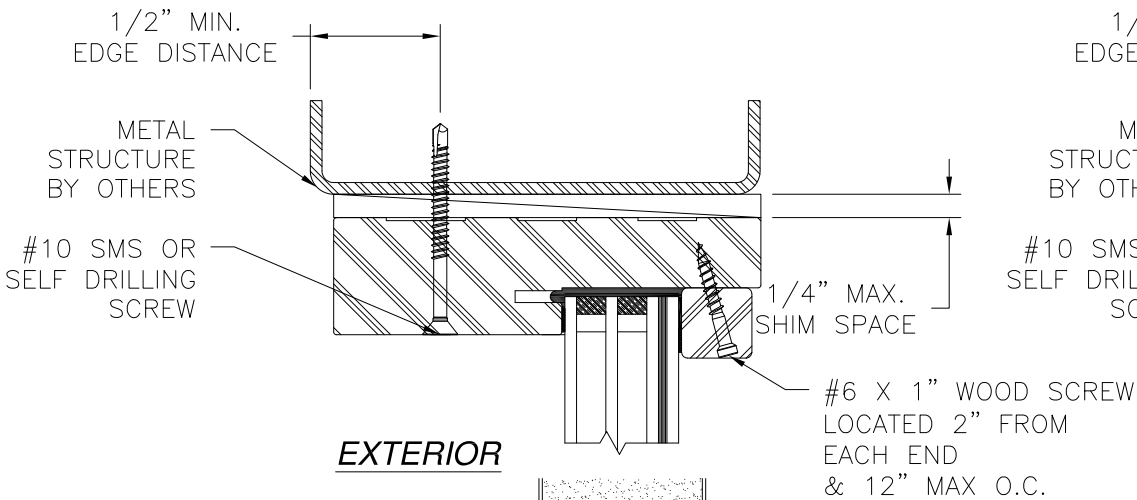
STATE OF FLORIDA

PROFESSIONAL ENGINEER

Luis R. Lomas P.E.

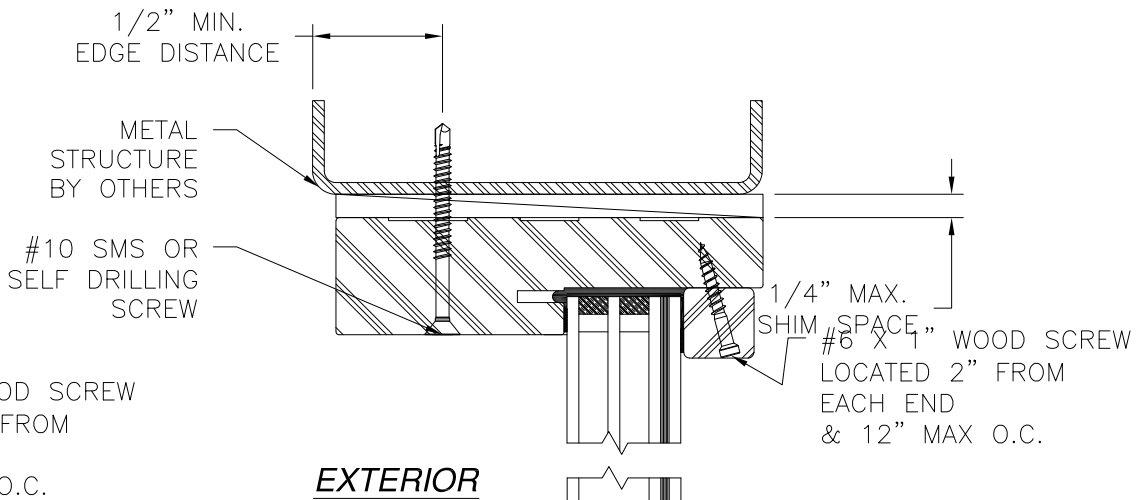
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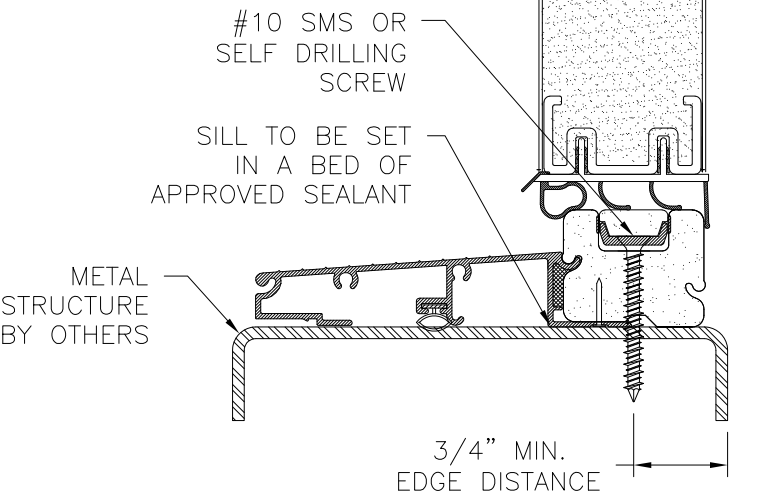
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INTERIOR



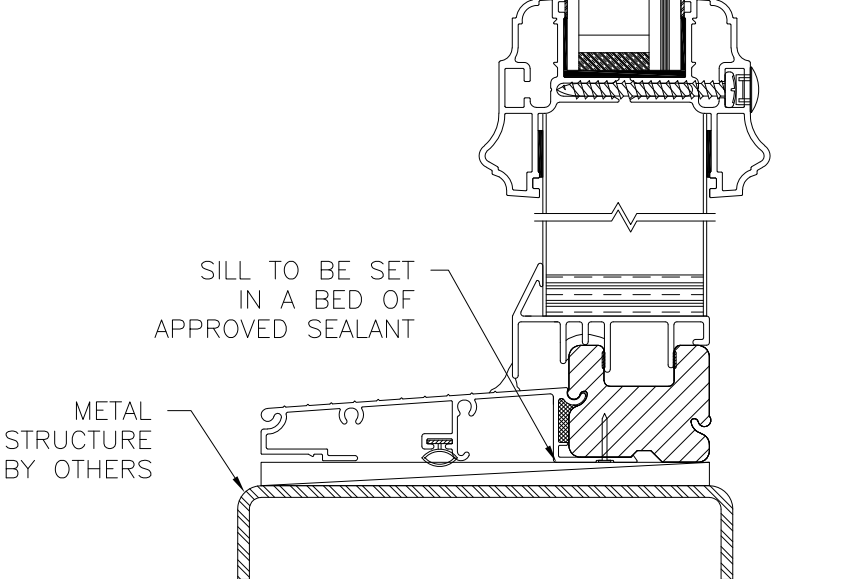
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INTERIOR



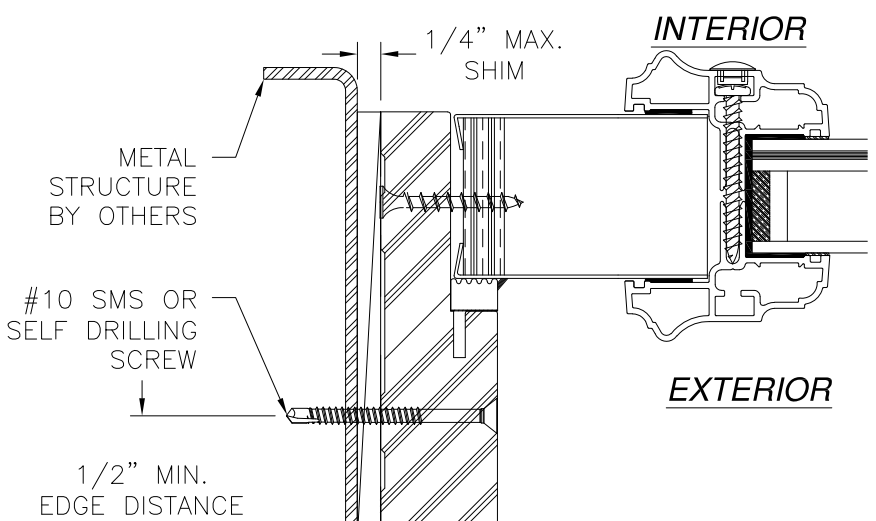
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DOOR AND TRANSOM INSTALLATION METAL STRUCTURE
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



VERTICAL CROSS SECTION

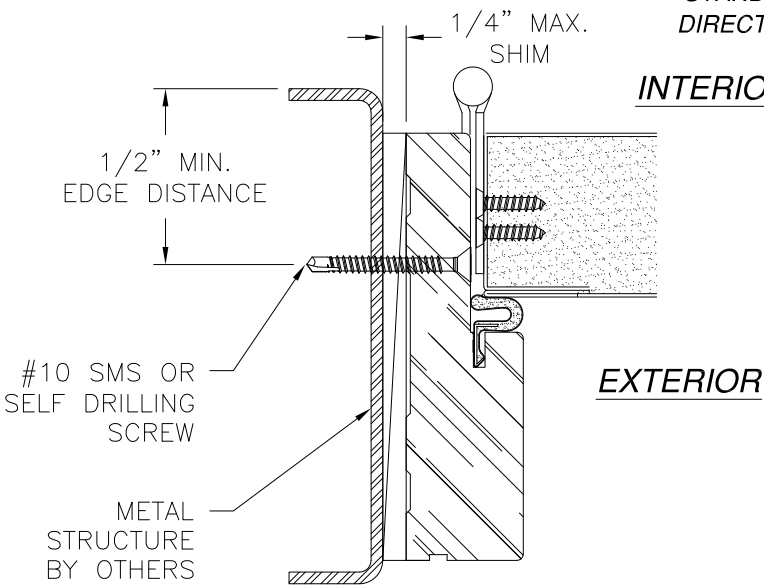
SIDELITE AND TRANSOM INSTALLATION METAL STRUCTURE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



INTERIOR

EXTERIOR

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



INTERIOR

EXTERIOR

HORIZONTAL CROSS SECTION
DOOR INSTALLATION METAL STRUCTURE

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

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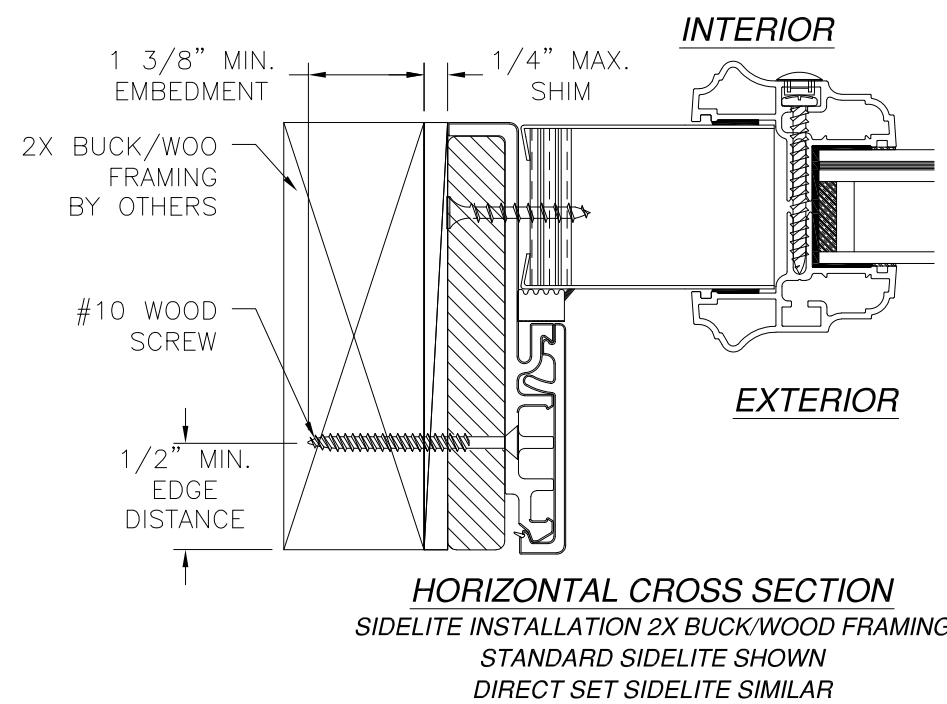
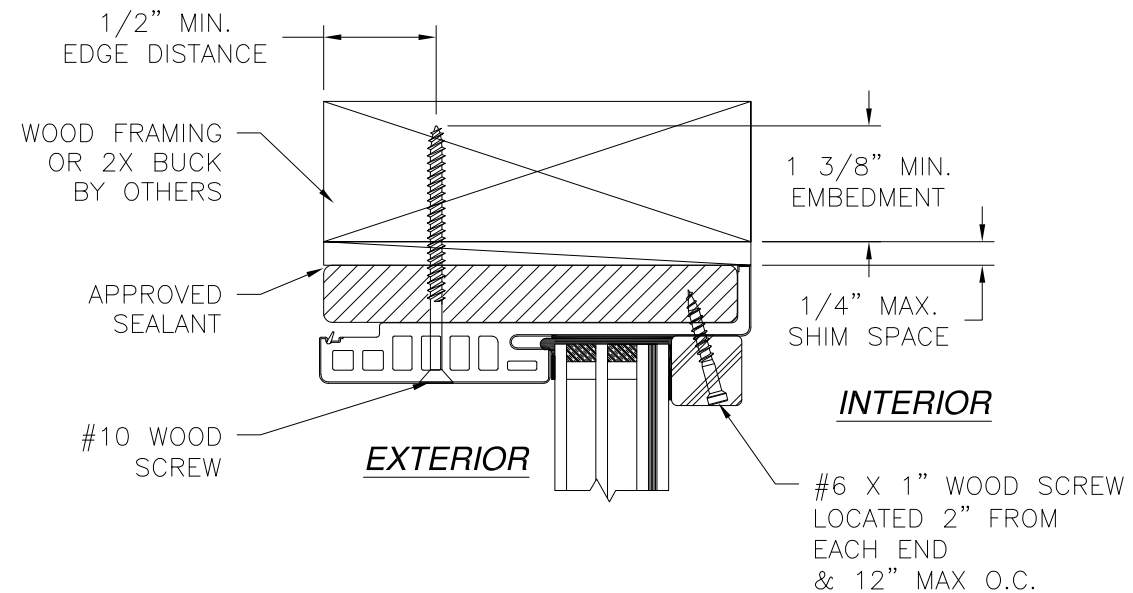
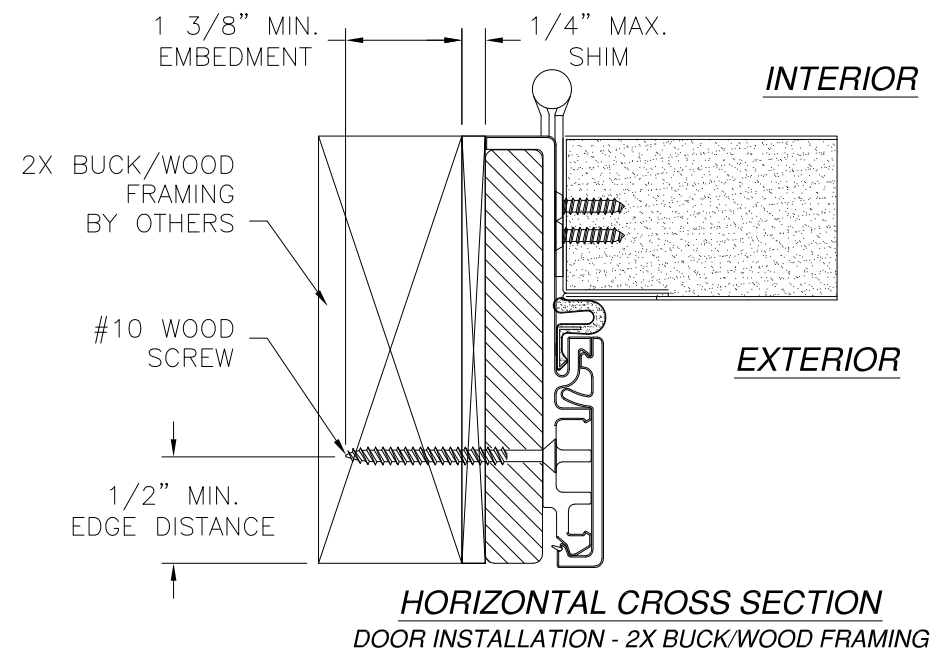
SCALE NTS DATE 04/23/13 SHEET 7 OF 18

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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

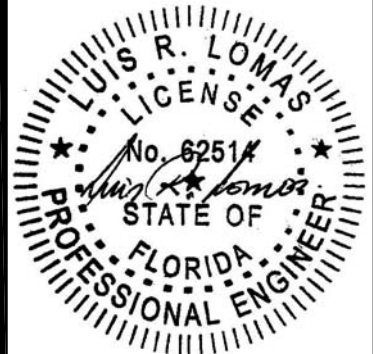
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J

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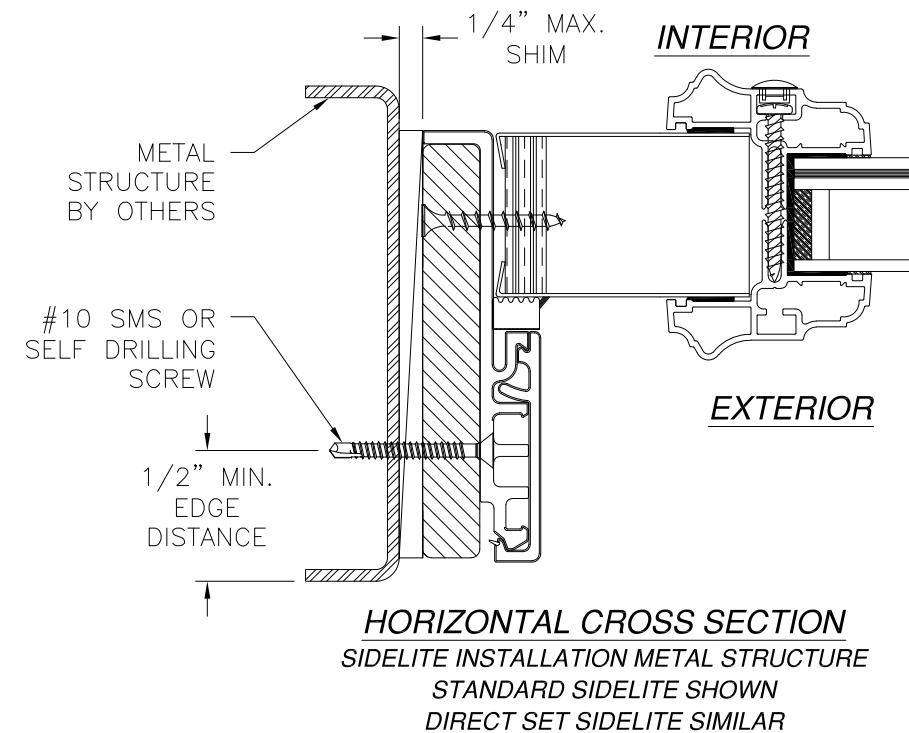
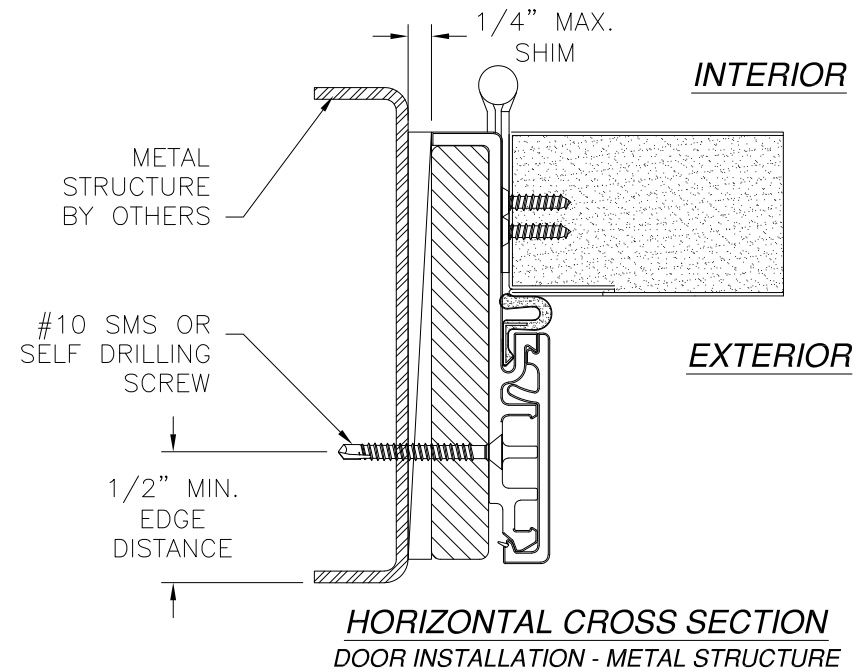
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SHEET 9 OF 18

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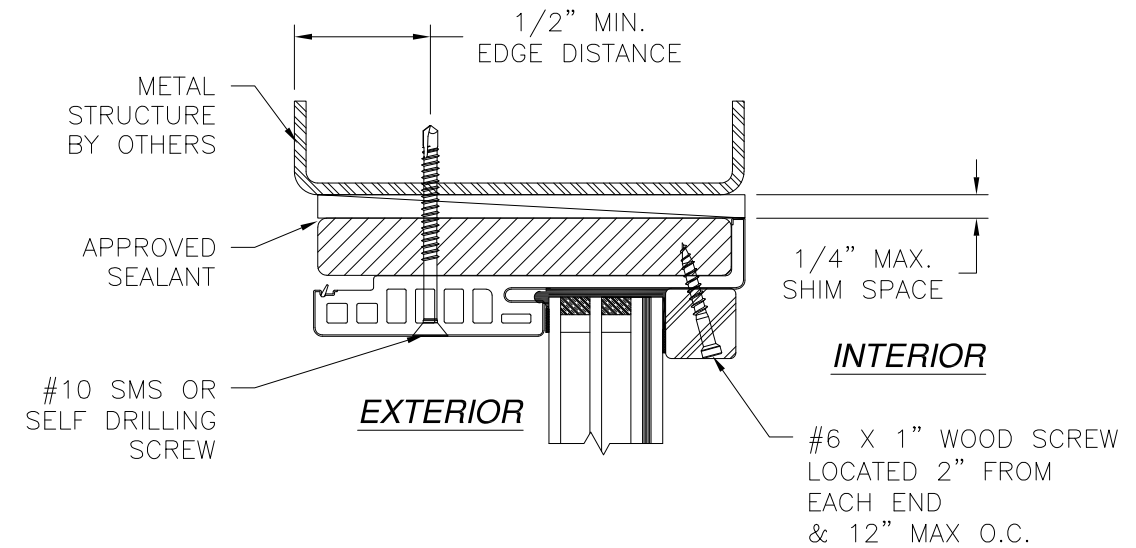


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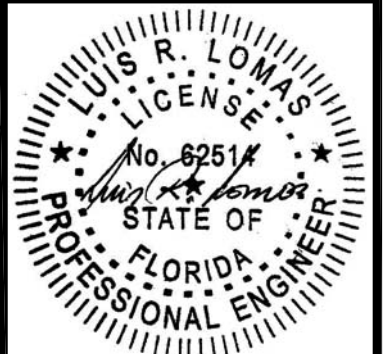
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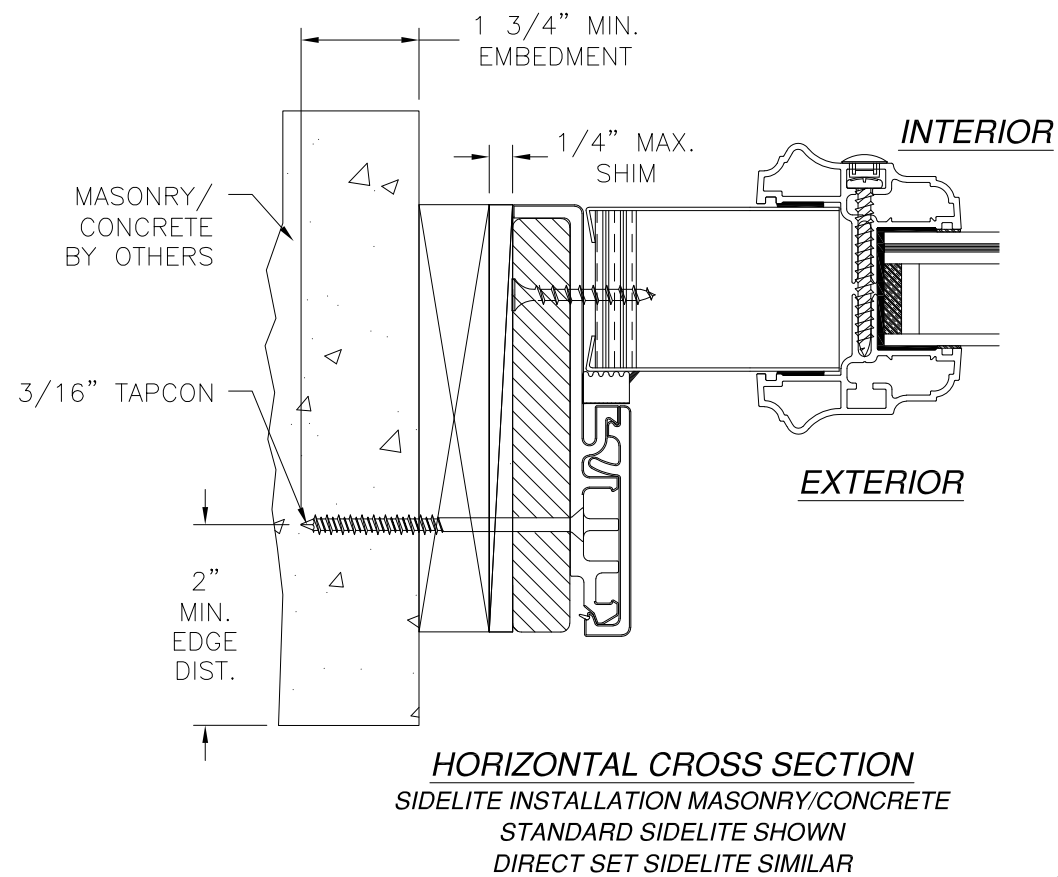
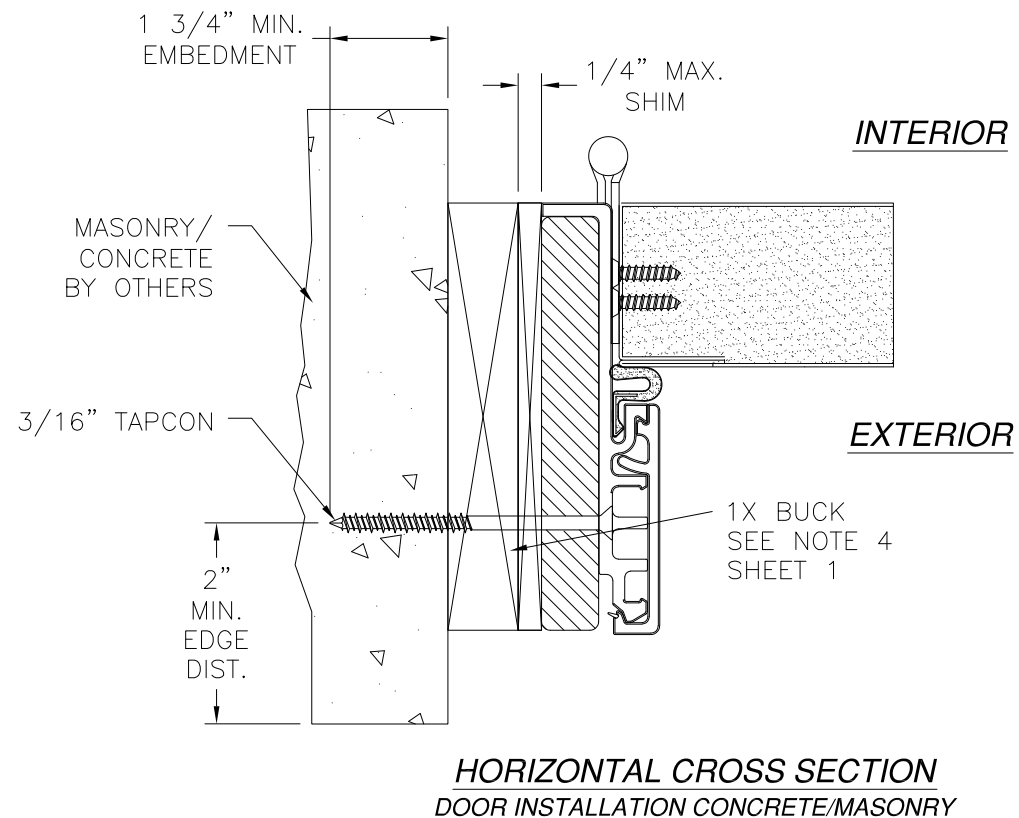
VERTICAL CROSS SECTION
TRANSOM INSTALLATION METAL STRUCTURE
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR

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 J
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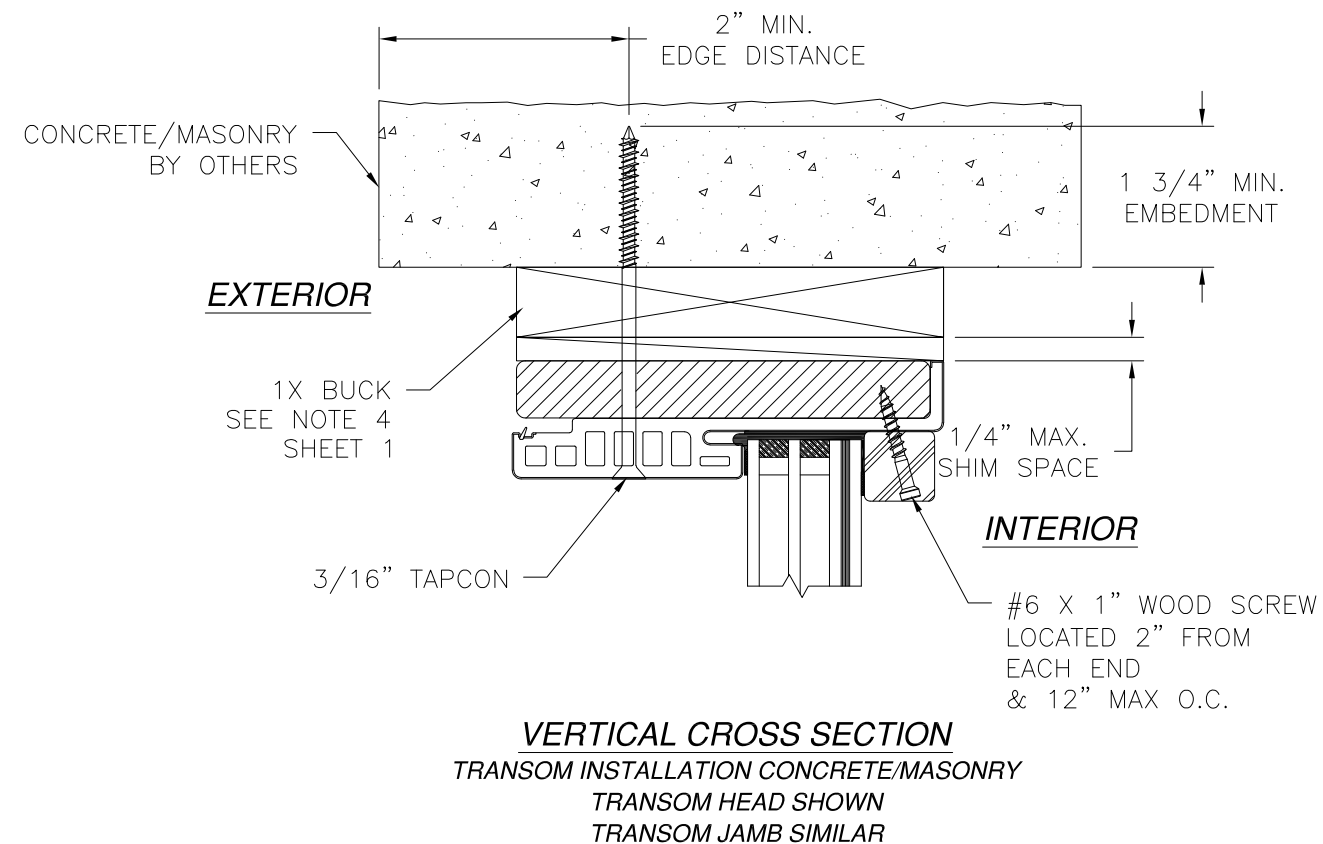


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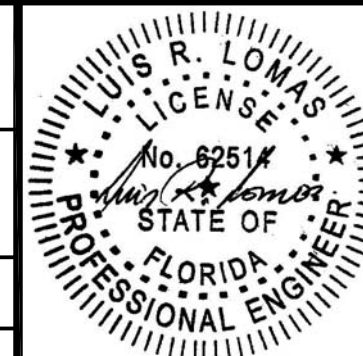
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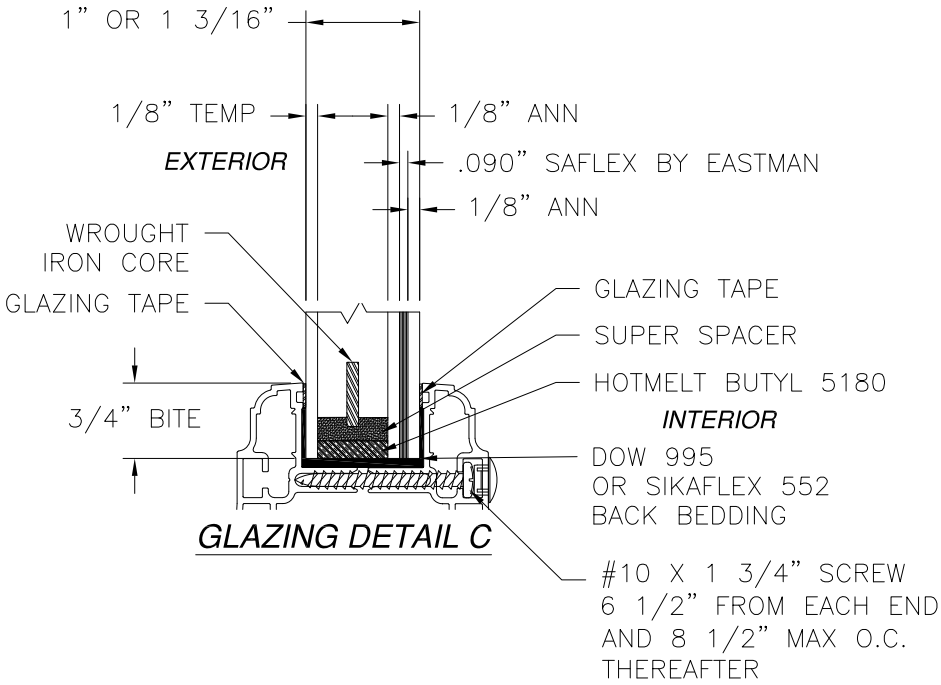
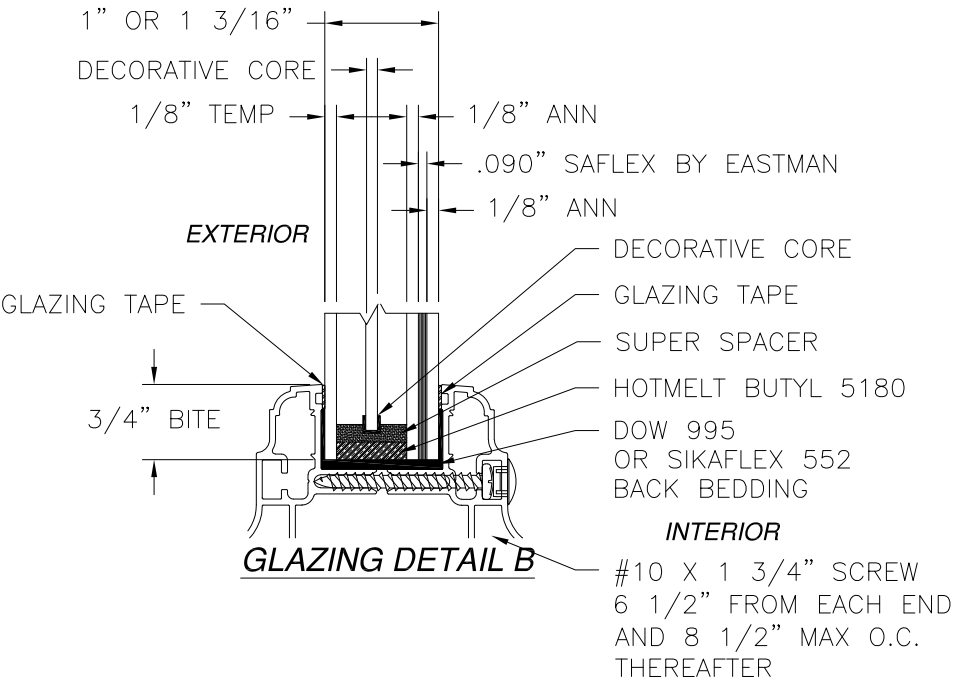
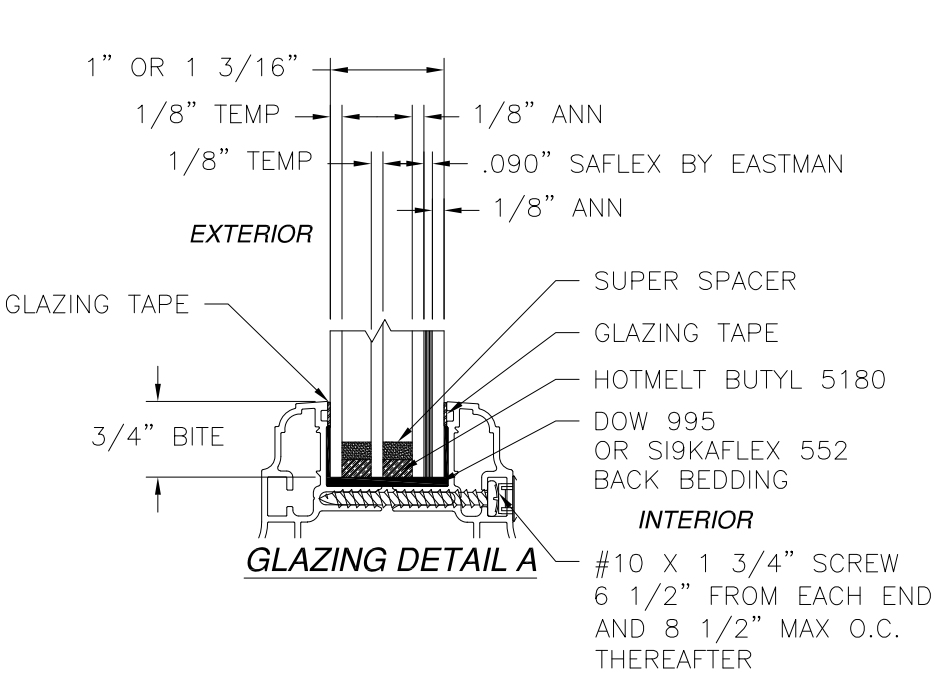
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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR
W/SIDELITES & TRANSOM – IMPACT
GLAZING DETAILS

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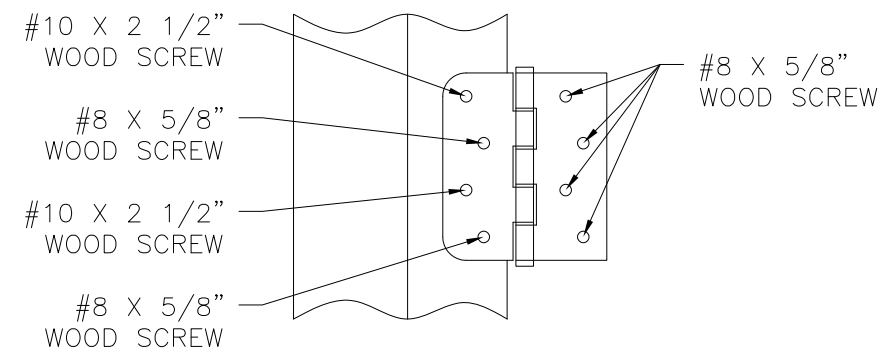
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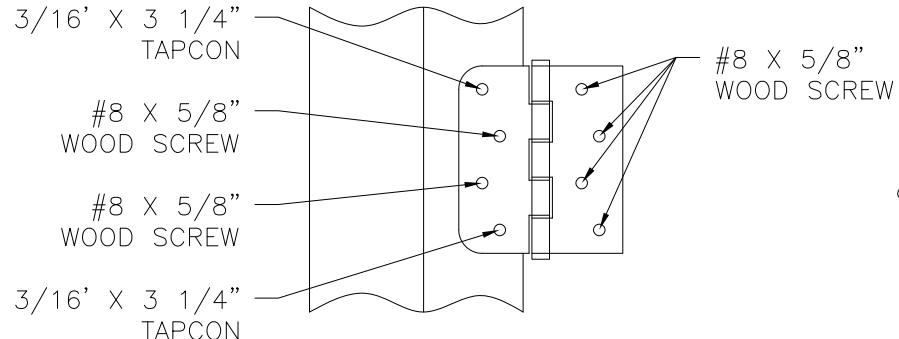
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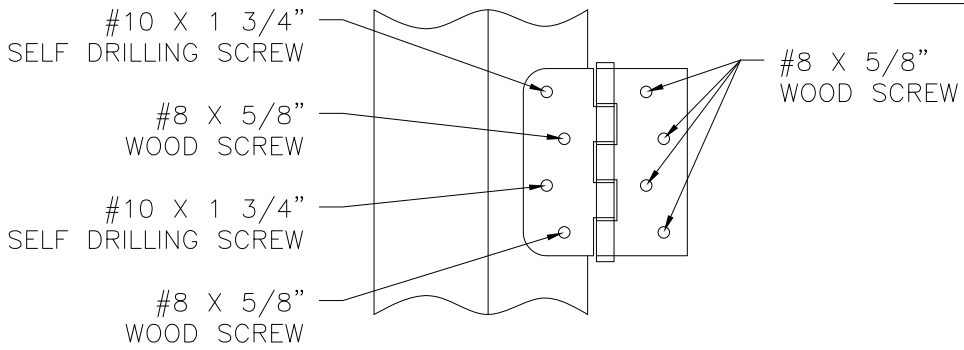
APPROVED SIDELITE SLABS



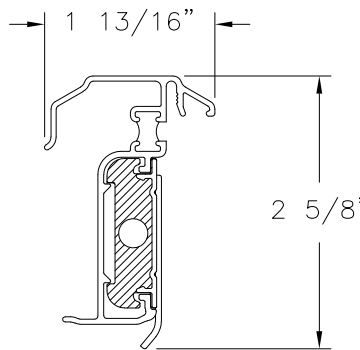
HINGE INSTALLATION DETAIL
2X BUCK/WOOD FRAMING



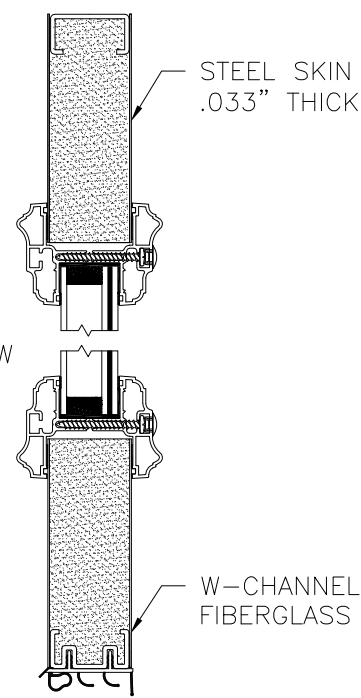
HINGE INSTALLATION DETAIL
MASONRY/CONCRETE



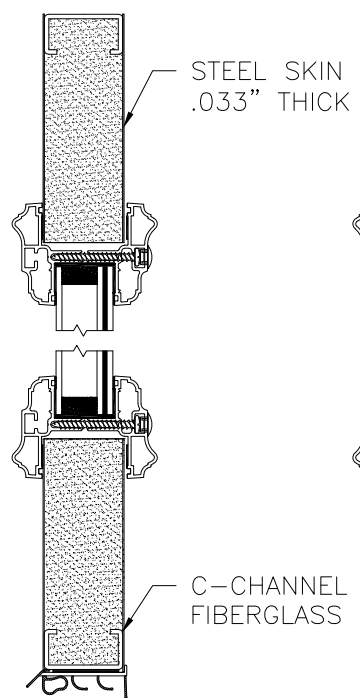
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METAL STRUCTURE



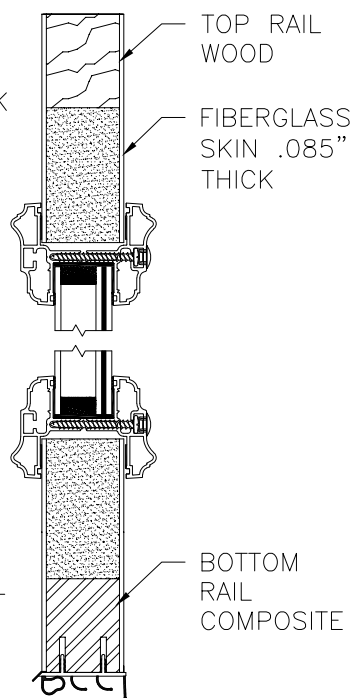
HURRICANE ASTRAGAL DETAIL



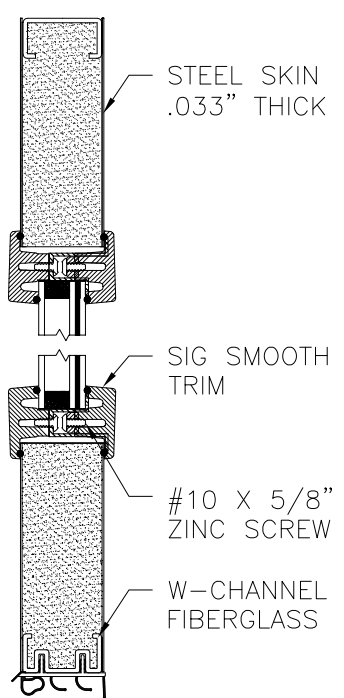
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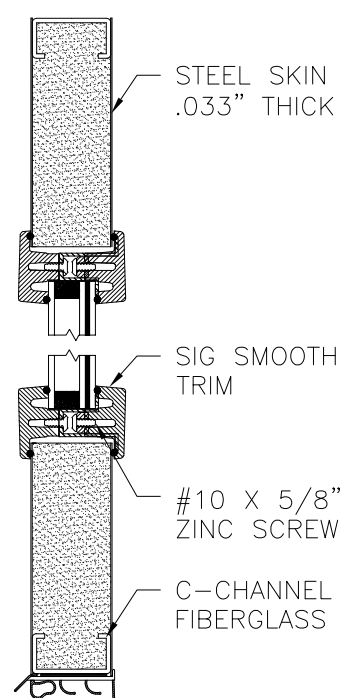
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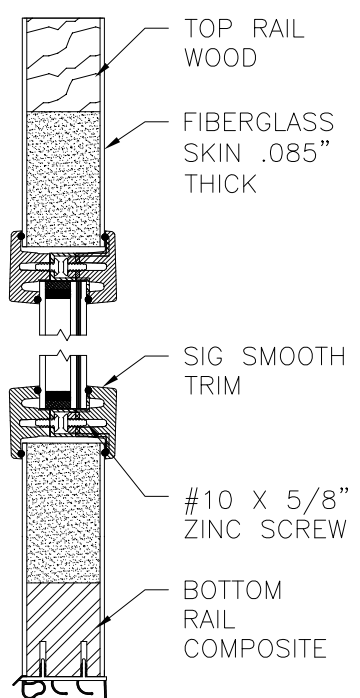
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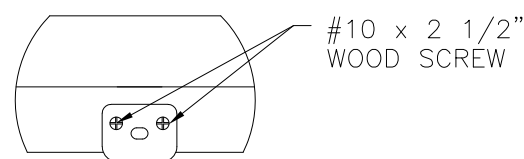
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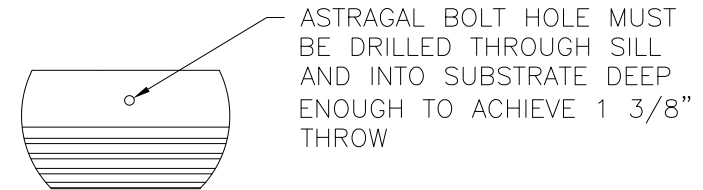
PANEL OPTION 5



PANEL OPTION 6



ASTRAGAL HEAD STRIKE DETAIL
2X BUCK/WOOD FRAMING



ASTRAGAL SILL DETAIL

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

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

DRAWN: J.L.	DWG NO. 08-02040	REV J
SCALE NTS	DATE 04/23/13	SHEET 13 OF 18

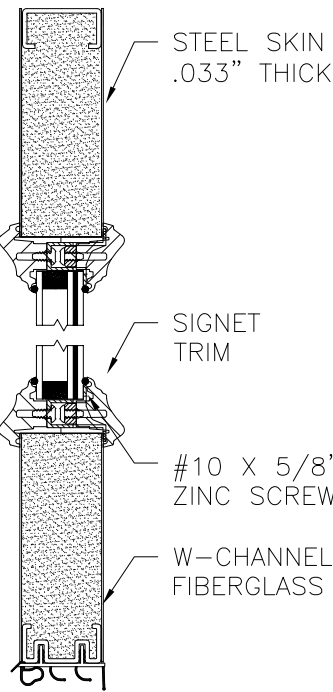
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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

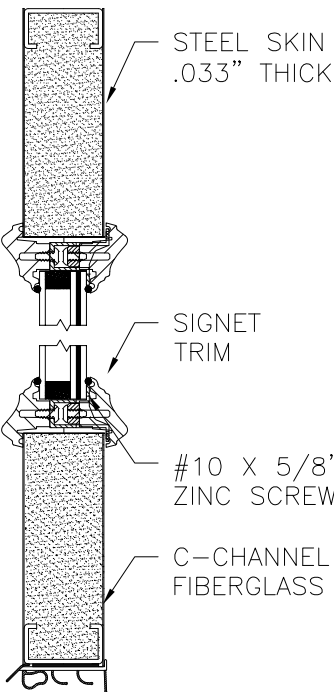
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SIDELITE SLABS

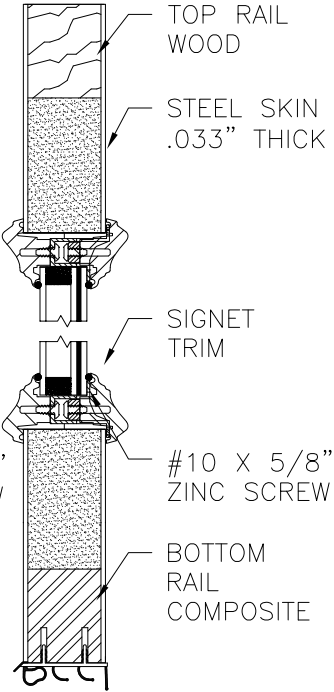
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TRIMS AND HARDWARE SCHEDULE	11/14/2023	R.L.



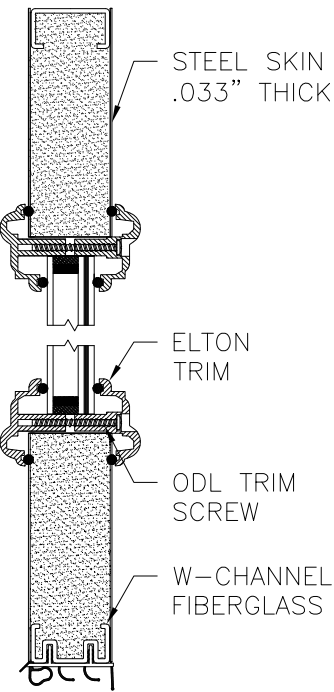
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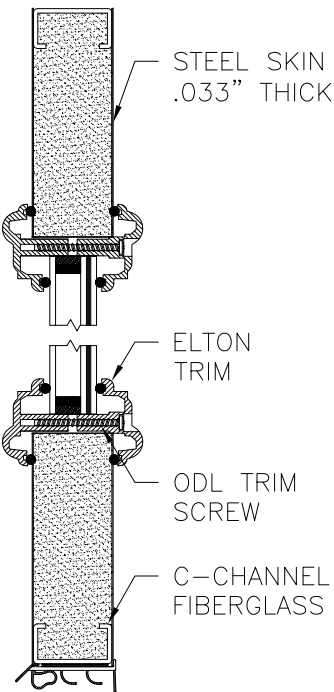
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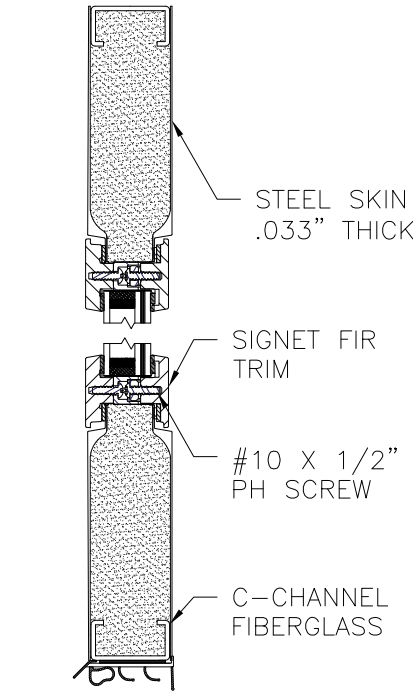
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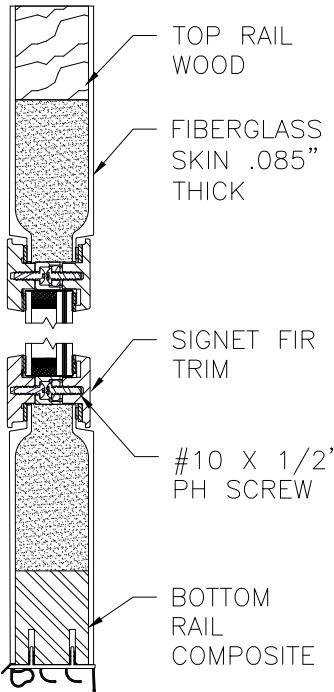
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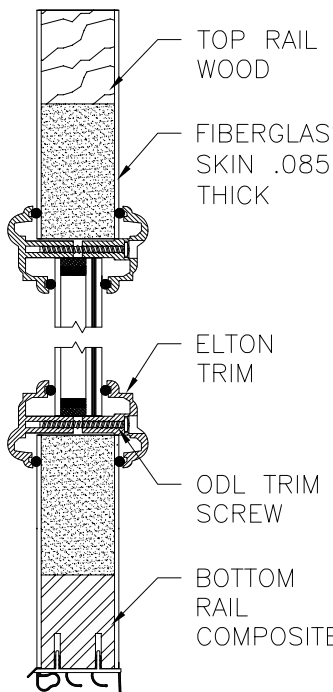
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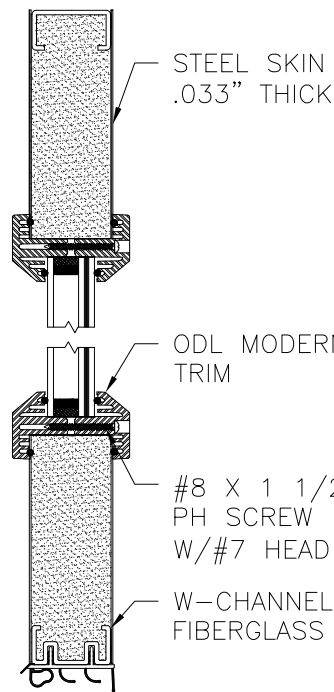
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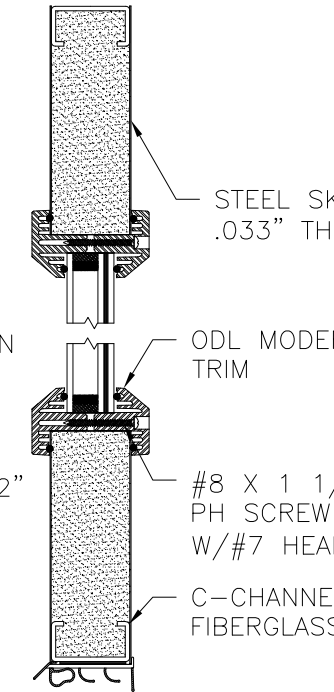
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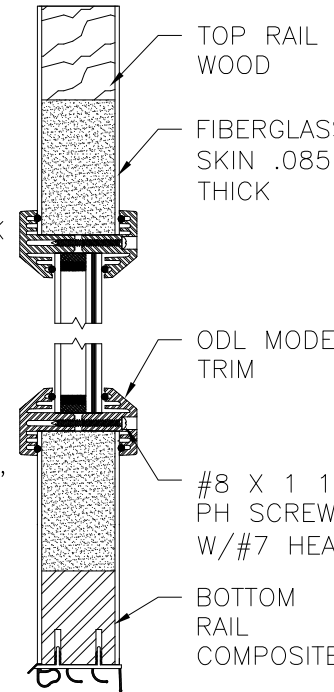
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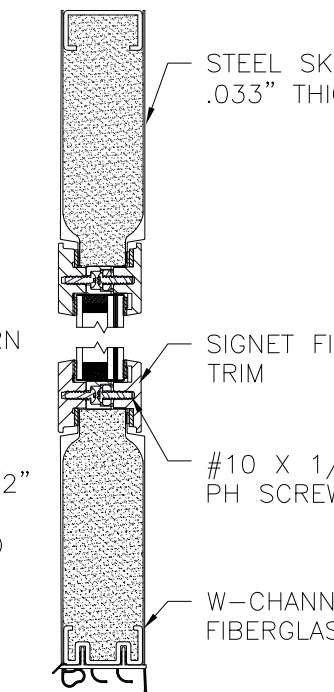
PANEL OPTION 13



PANEL OPTION 14



PANEL OPTION 15



PANEL OPTION 16

SIGNED: 12/26/2023

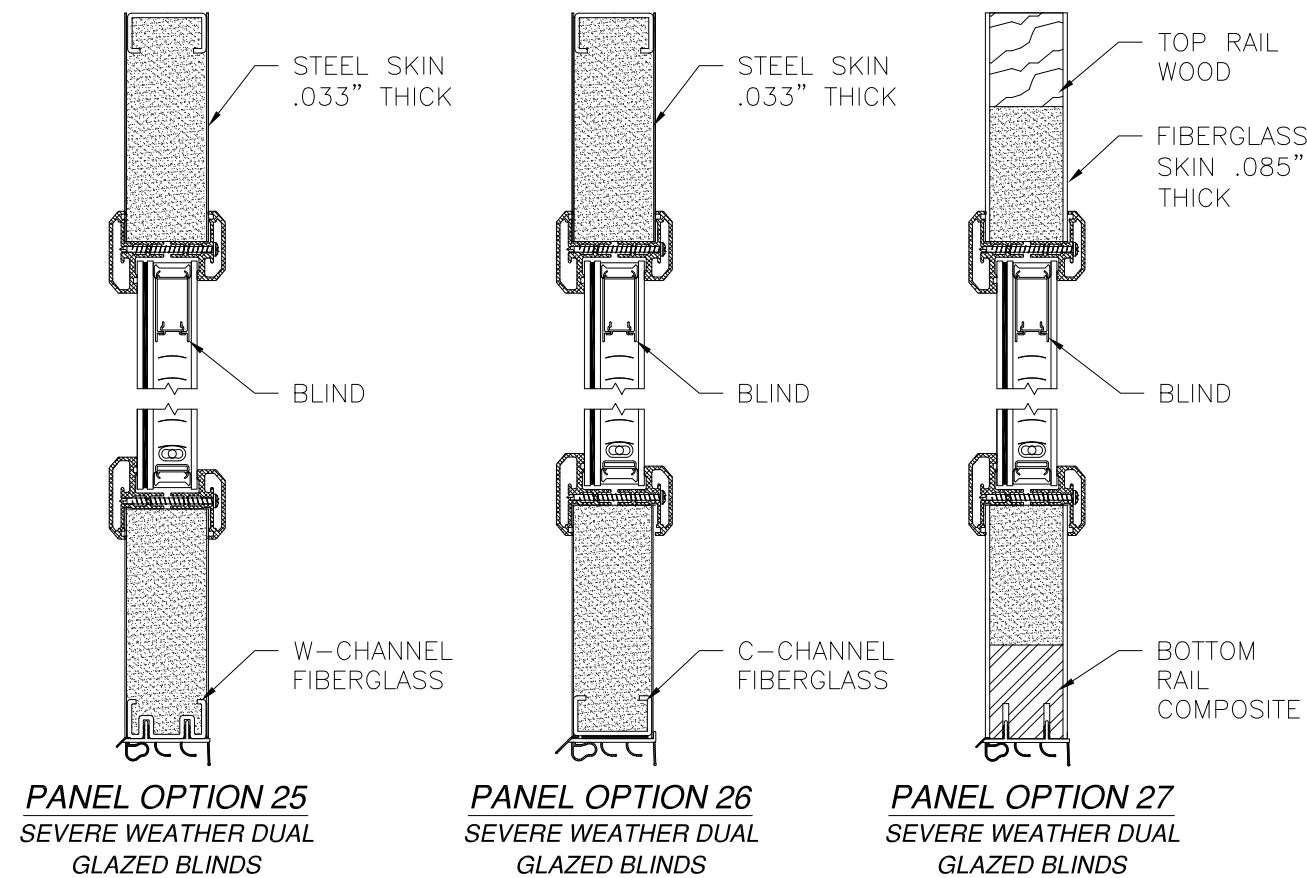
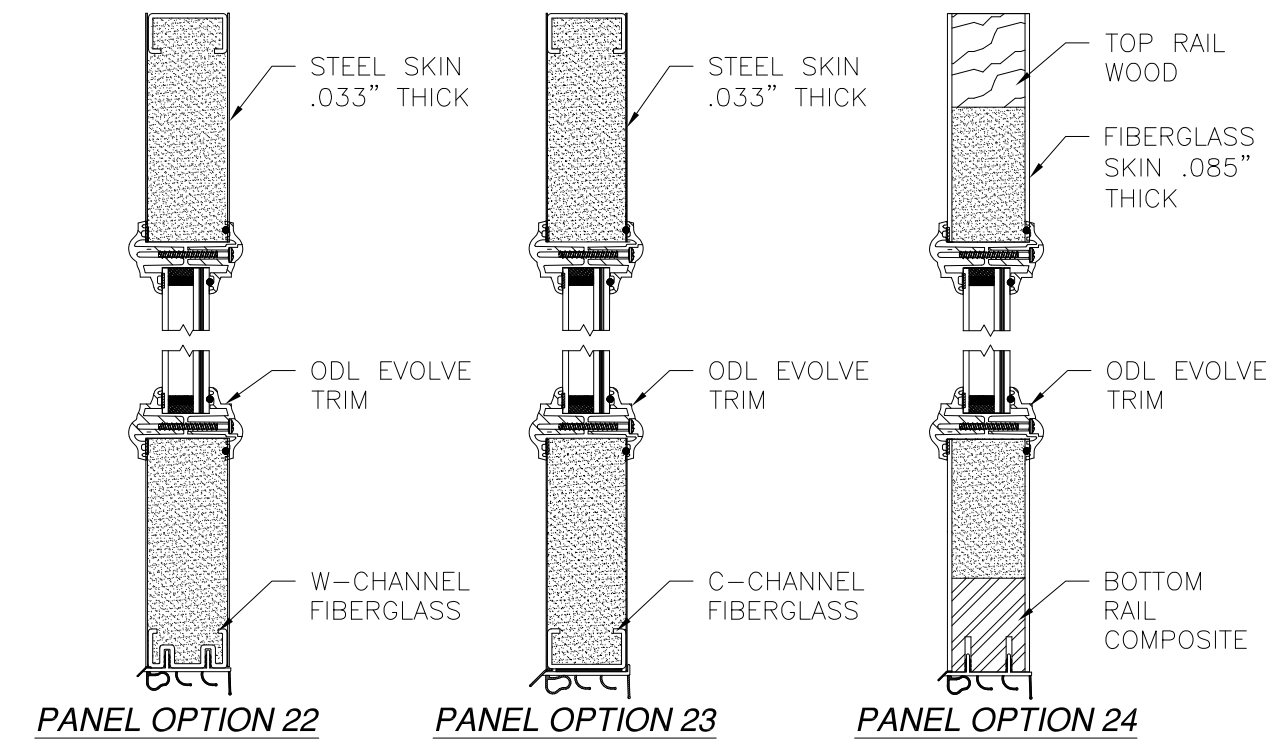
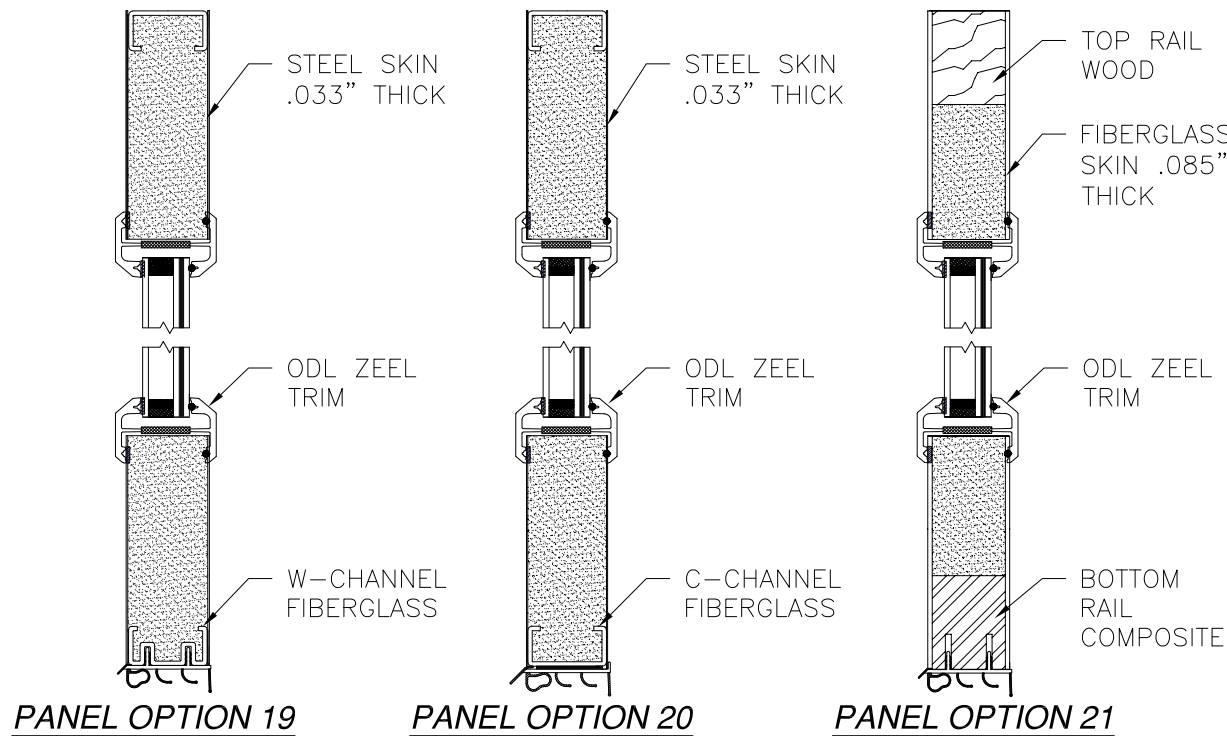
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT APPROVED SLABS		
DRAWN: J.L.	DWG NO. 08-02040	REV J
SCALE NTS	DATE 04/23/13	SHEET 14 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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

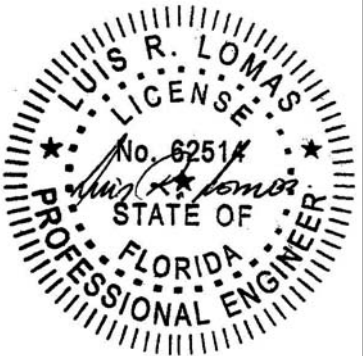
APPROVED SIDELITE SLABS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TRIMS AND HARDWARE SCHEDULE	11/14/2023	R.L.



SIGNED: 12/26/2023

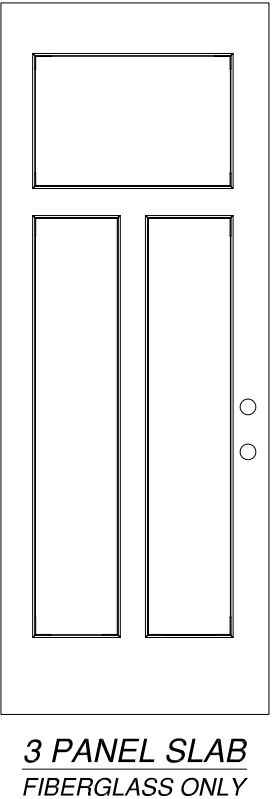
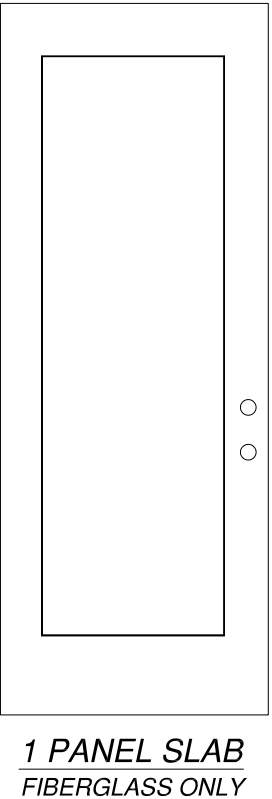
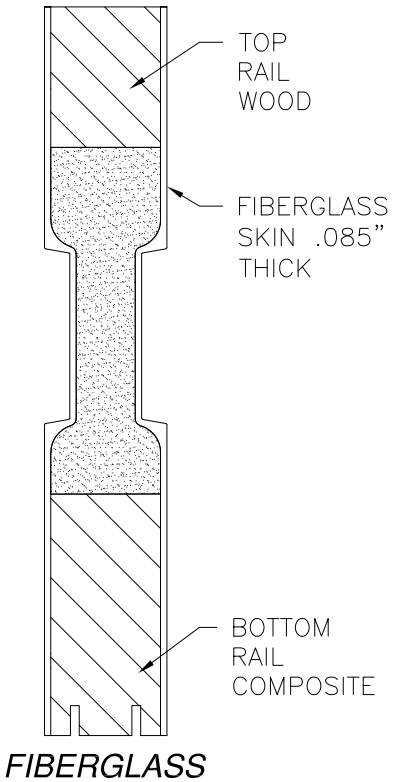
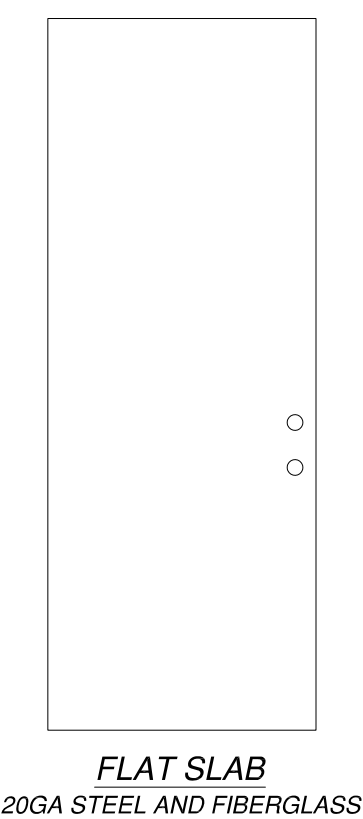
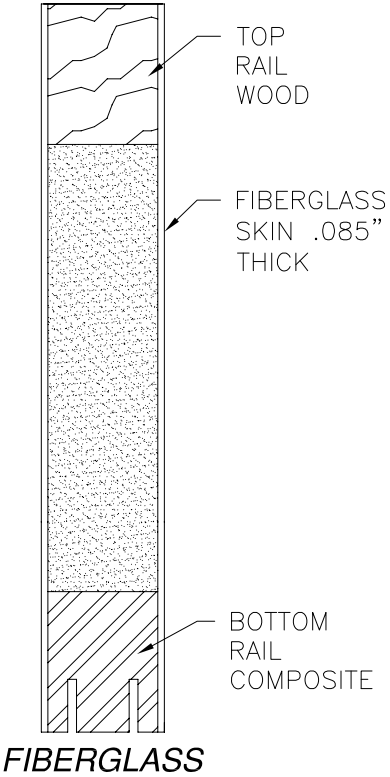
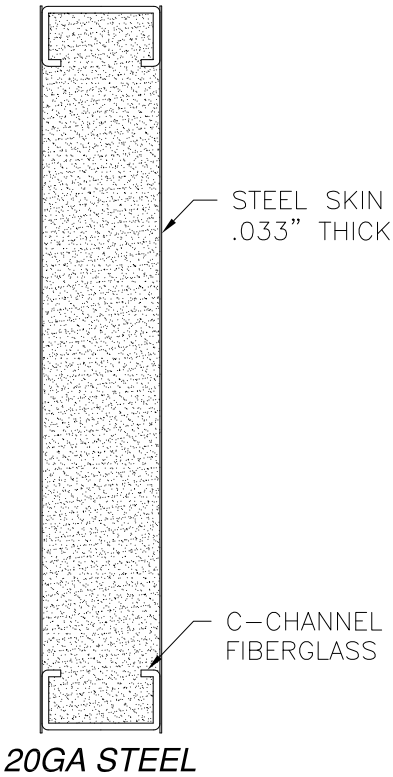
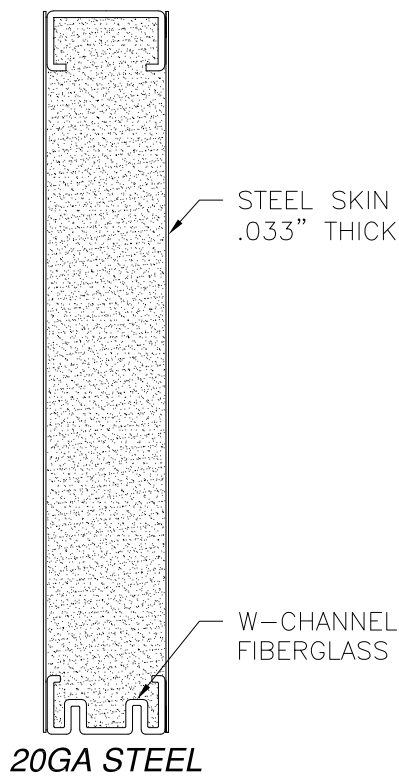
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT APPROVED SLABS		
DRAWN: J.L.	DWG NO. 08-02040	REV J
SCALE NTS	DATE 04/23/13	SHEET 15 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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

APPROVED DOOR SLABS AND CROSS SECTIONS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TRIMS AND HARDWARE SCHEDULE	11/14/2023	R.L.



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
J

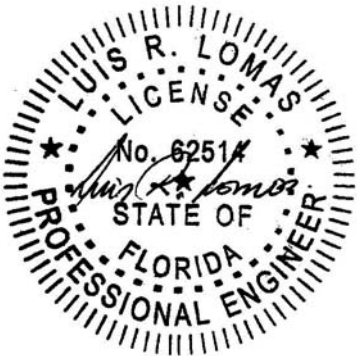
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DATE 04/23/13

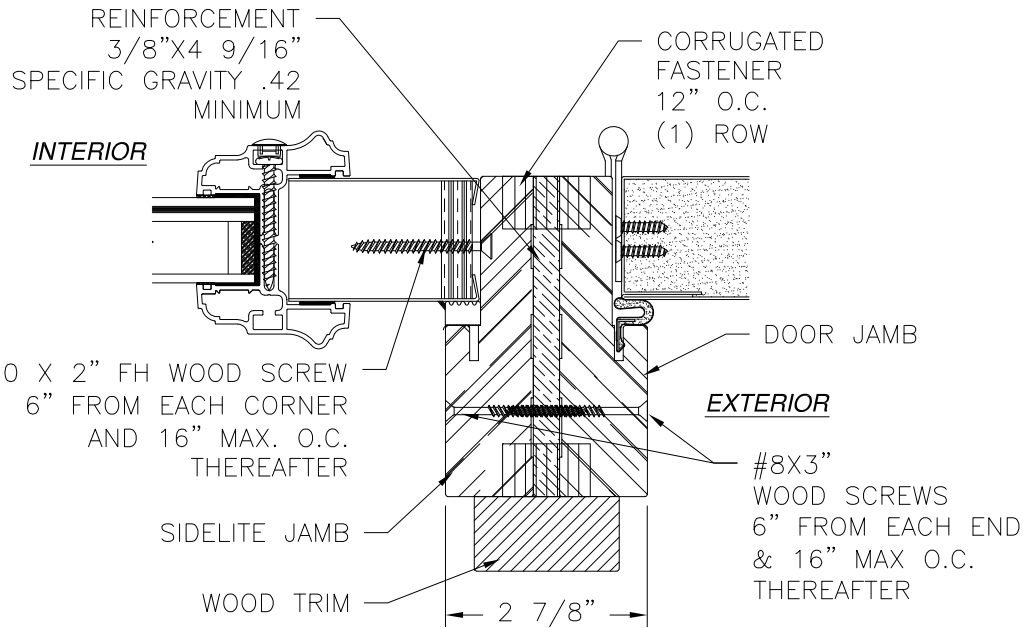
SHEET 16 OF 18

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

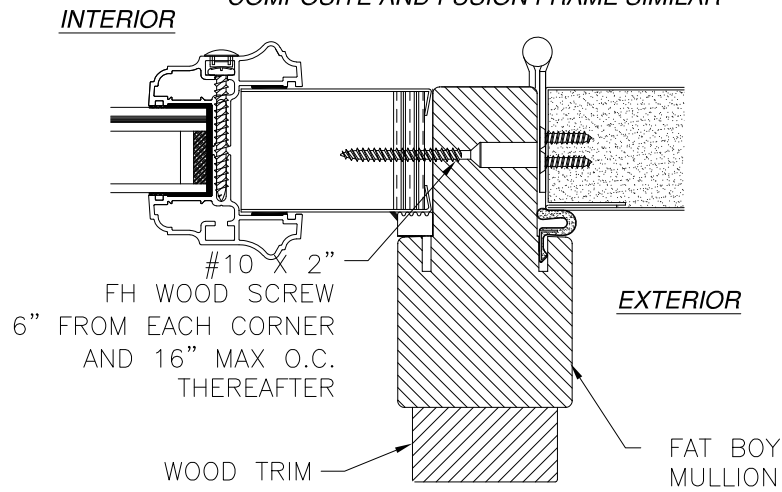
SIGNED: 12/26/2023



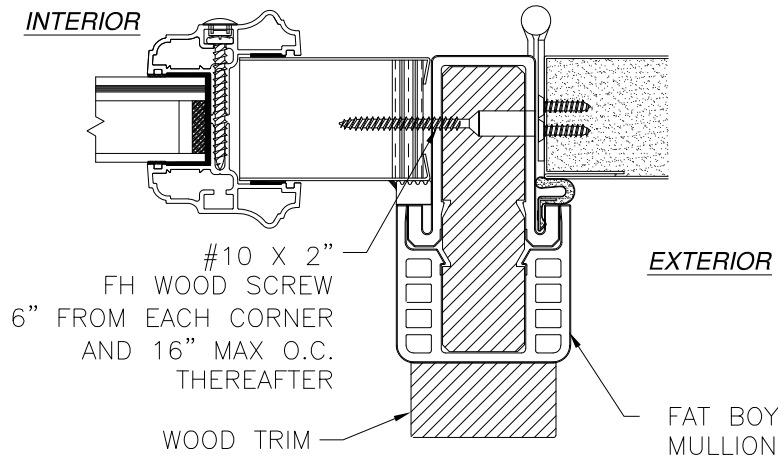
Luis R. Lomas P.E.
FL No.: 62514



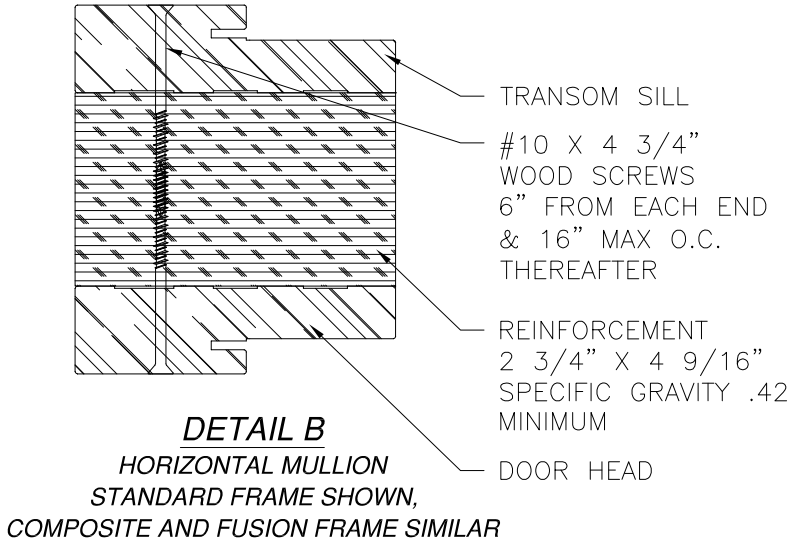
DETAIL A
VERTICAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



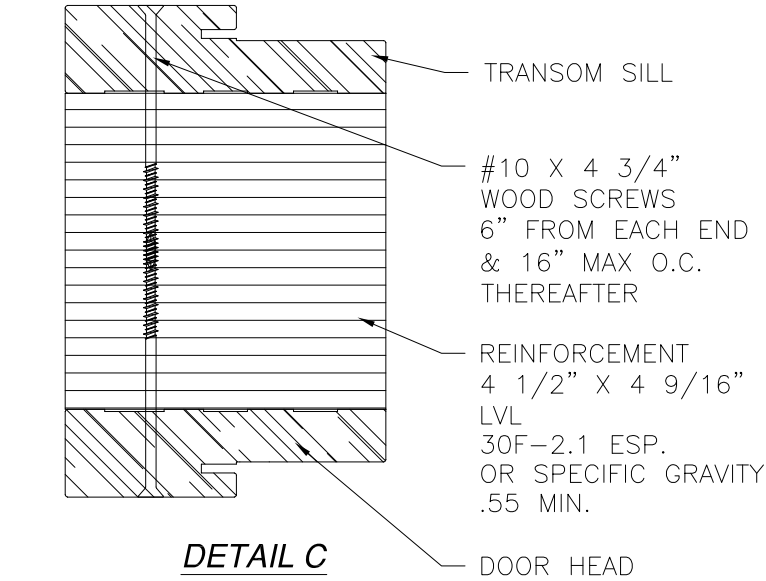
DETAIL A
WITH FAT BOY MULLION



DETAIL A
WITH HYBRID FAT BOY MULLION



DETAIL B
HORIZONTAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



DETAIL C
HORIZONTAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR

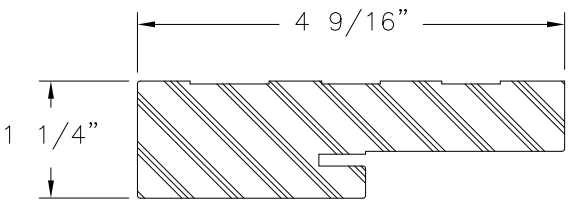
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TRIMS AND HARDWARE SCHEDULE	11/14/2023	R.L.

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT MULLION DETAILS		
DRAWN: J.L.	DWG NO. 08-02040	REV J
SCALE NTS	DATE 04/23/13	SHEET 17 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

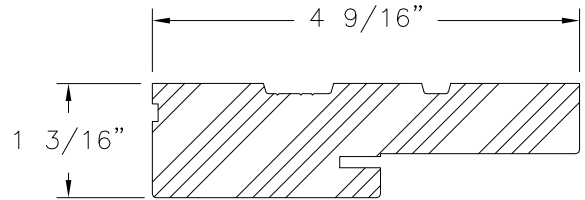
SIGNED: 12/26/2023



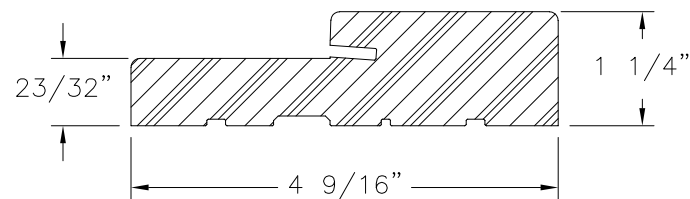
Luis R. Lomas P.E.
FL No.: 62514



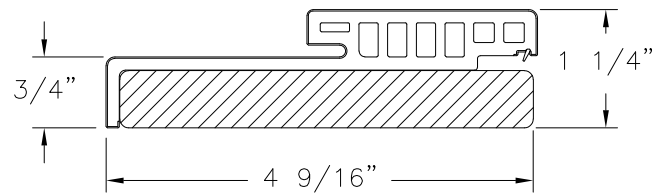
COMPOSITE FRAME PROFILE



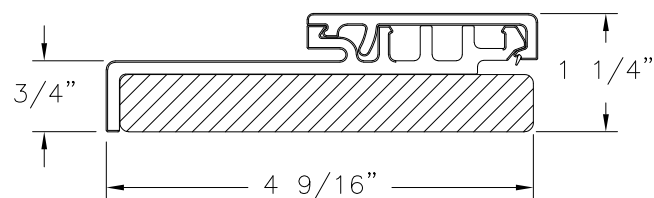
WOOD FRAME PROFILE



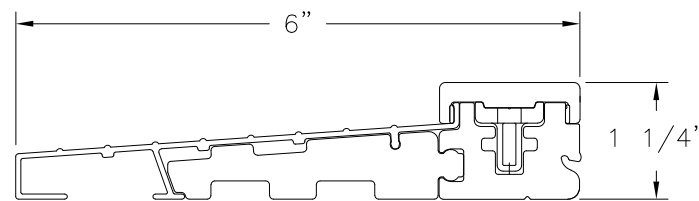
FRAMESAVER
COMPOSITE



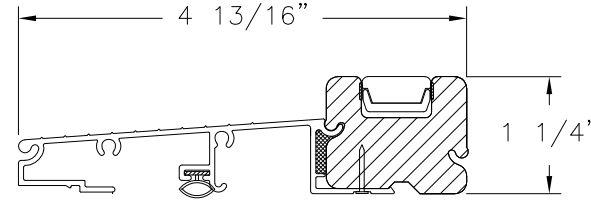
HYBRID HEAD
WOOD/COMPOSITE



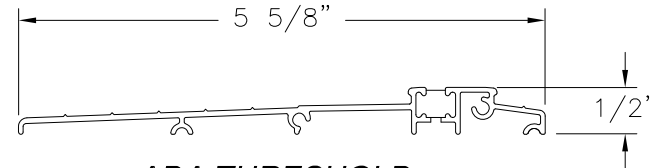
HYBRID JAMB
WOOD/COMPOSITE



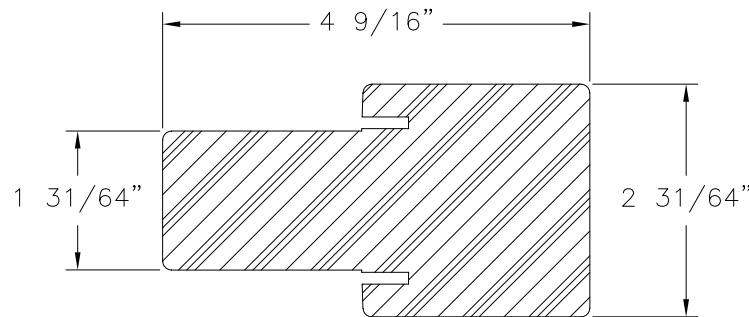
INSWING DOOR SILL DETAIL



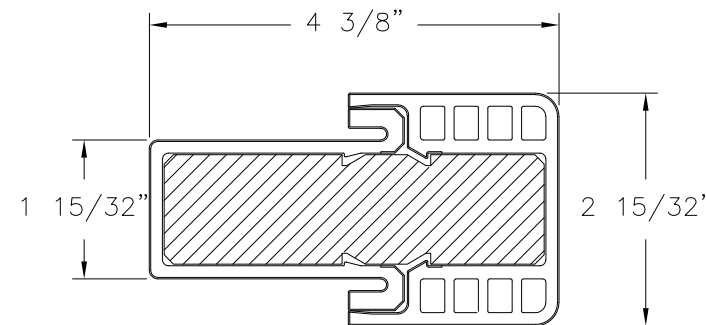
SAHARA INSWING THRESHOLD



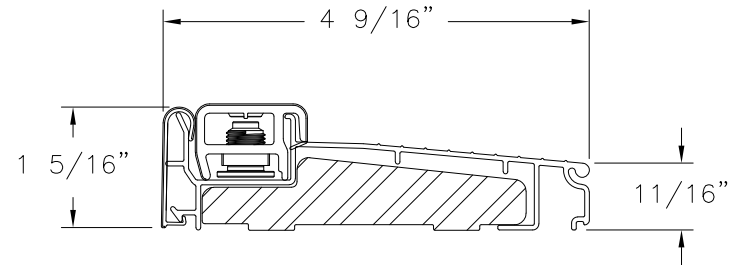
ADA THRESHOLD



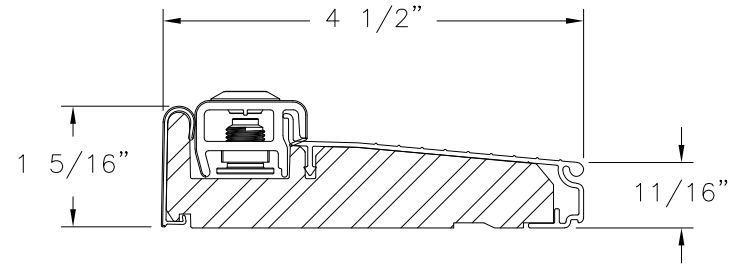
FAT BOY MULLION
COMPOSITE



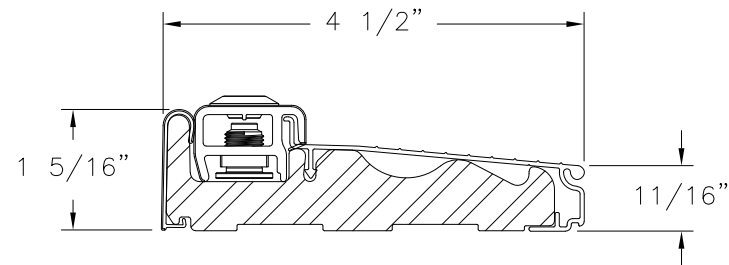
HYBRID FAT BOY MULLION
COMPOSITE



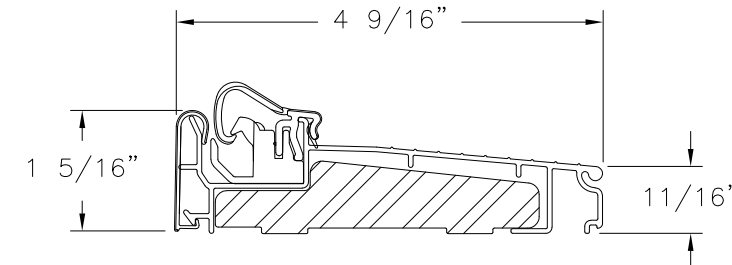
INSWING SILL ZAIL4565



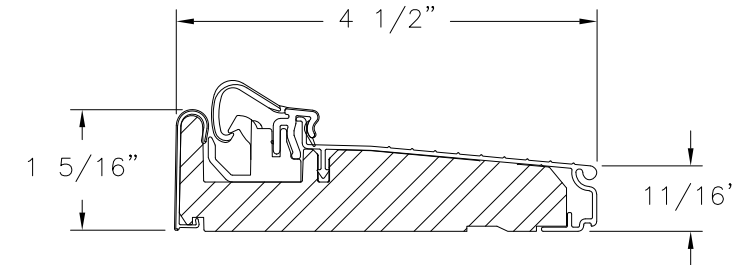
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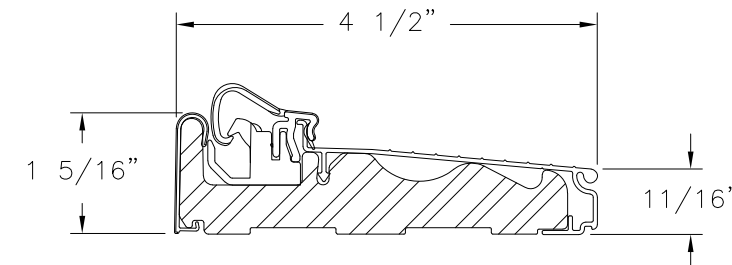
INSWING SILL ZAILH4565



INSWING SILL ZACL4565



INSWING SILL ZAC4565F

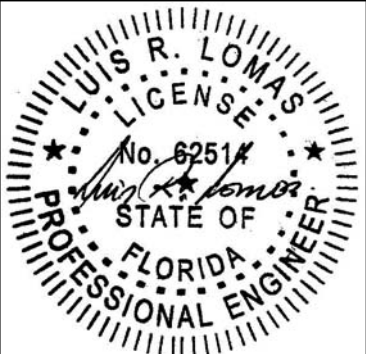


INSWING SILL ZACLH4565

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TRIMS AND HARDWARE SCHEDULE	11/14/2023	R.L.

SIGNED: 12/26/2023

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT COMPONENTS		
DRAWN: J.L.	DWG NO. 08-02040	REV J
SCALE NTS	DATE 04/23/13	SHEET 18 OF 18
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