

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISE TRIMS AND HARDWARE SCHEDULE	11/21/2023	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 FRAVITY, 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. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
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	ELEVATION
3	APPROVED CONFIGURATIONS & COMPONENTS DETAILS
4 – 5	ANCHORING LAYOUTS
6 – 9	INSTALLATION DETAILS
10 – 13	COMPONENTS

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

STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08-02108

REV
K

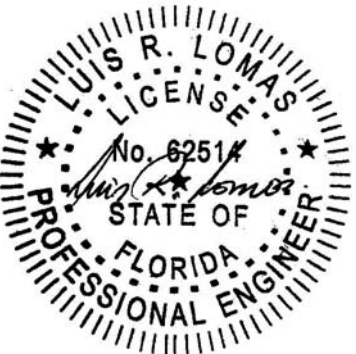
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DATE 07/01/13

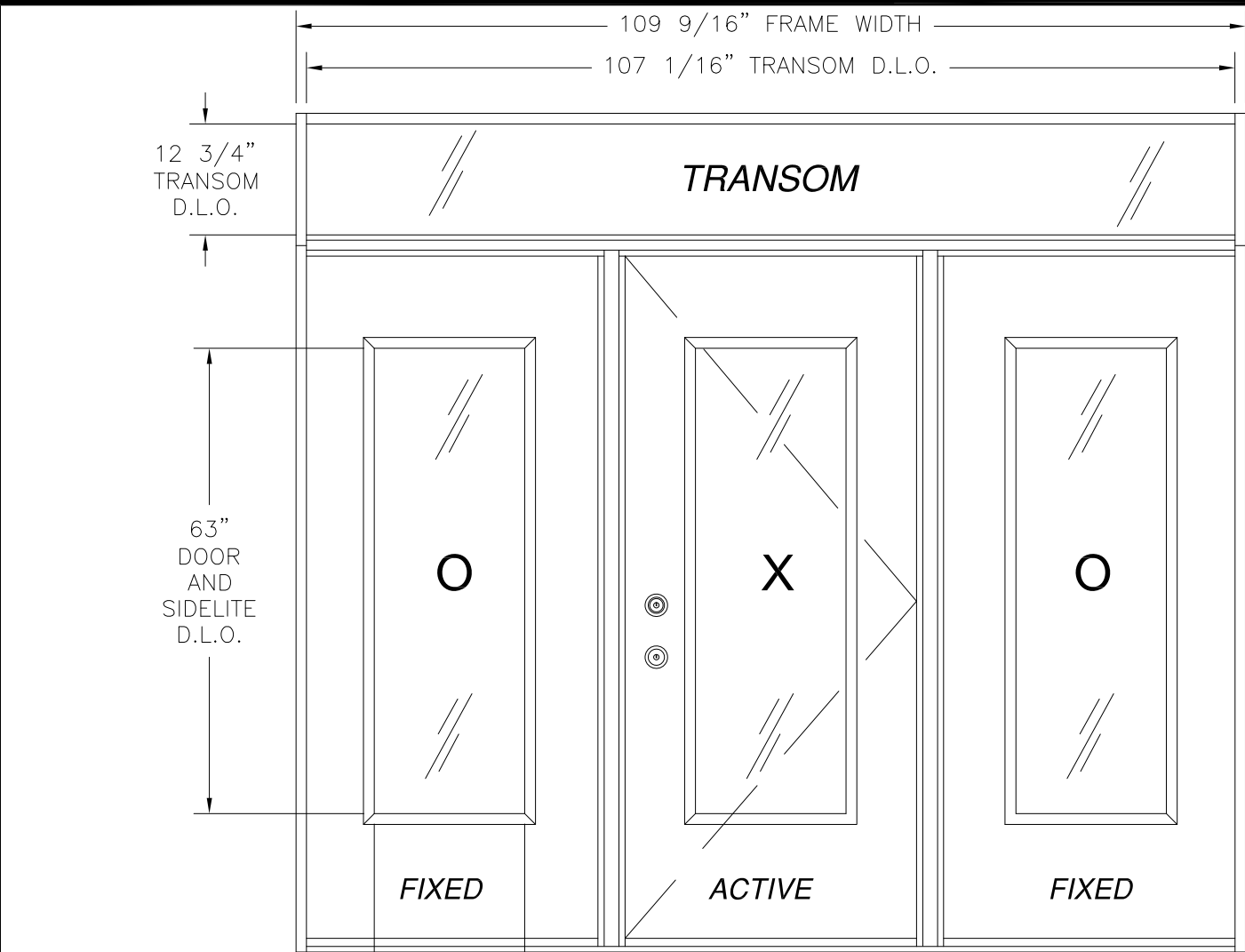
SHEET 1 OF 13

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



IS SINGLE PATIO DOOR W/SIDELITES AND TRANSOM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-50.0PSF	NONE

HARDWARE SCHEDULE
A. F-SERIES ASSEMBLY DOOR KNOB BY SCHLAGE.
B. B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
C. F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
D. EMTEK RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY (ALTERNATE)
E. TRILLENIUM MULTI-POINT LOCK HANDLE ASSEMBLY (ALTERNATE)
F. PANOLOCK MULTI-POINT LOCK HANDLE ASSEMBLY (ALTERNATE)
G. (3) 4" X 4" BALL BEARING HINGES BY PENROD
H. (3) 4" X 4" SPRING BOMMER HINGES BY PENROD
I. (2) EXTRUDED ALUMINUM MULLION BY PROVIA DOOR, INC.

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ELEVATION

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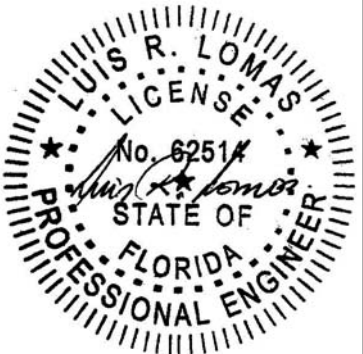
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DATE
07/01/13

SHEET
2 OF 13

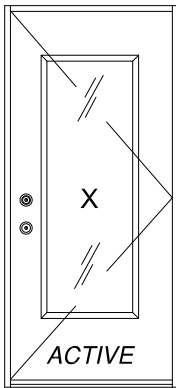
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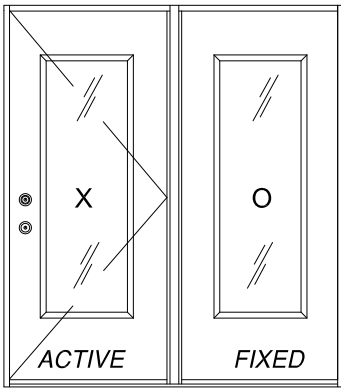


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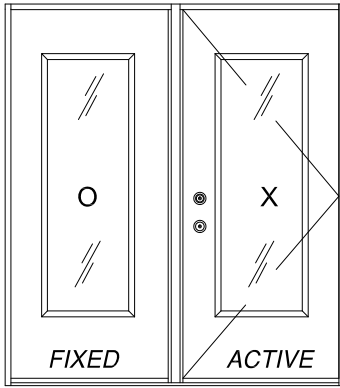
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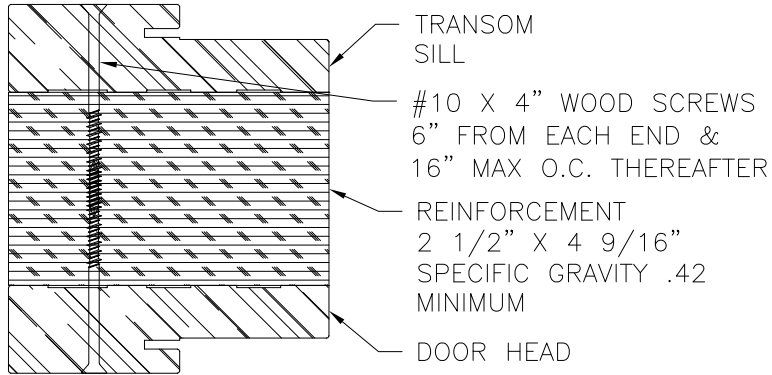
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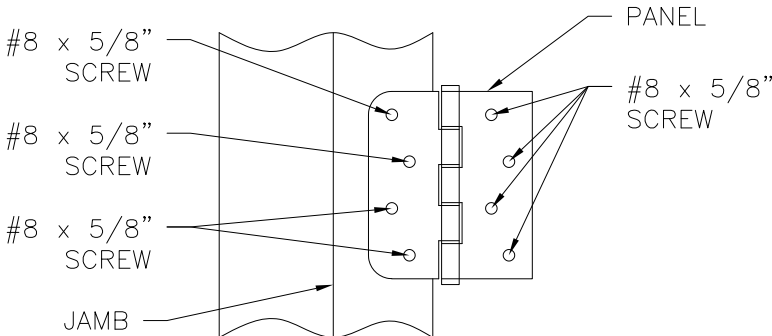
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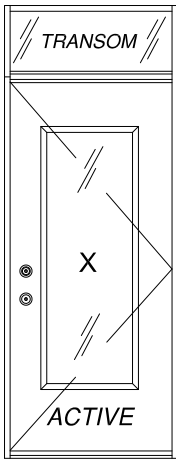
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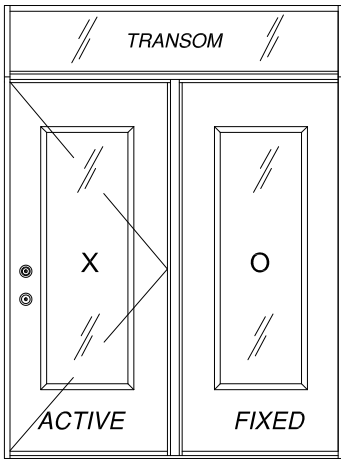
HORIZONTAL MULLION DETAIL
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



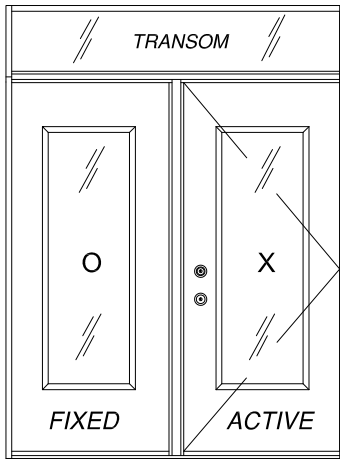
HINGE INSTALLATION DETAIL



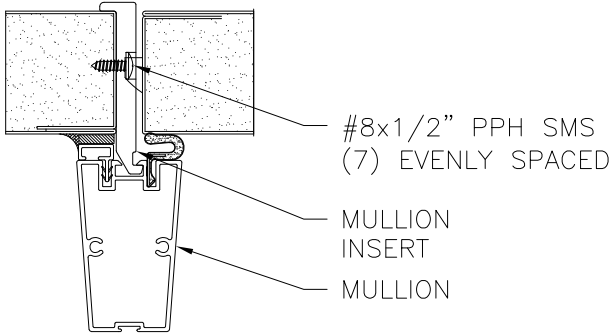
SINGLE W/TRANSOM



SINGLE W/SIDELITE & TRANSOM

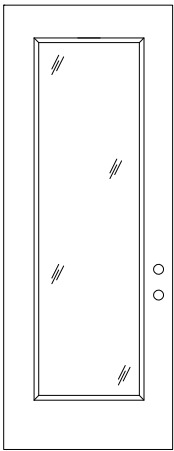


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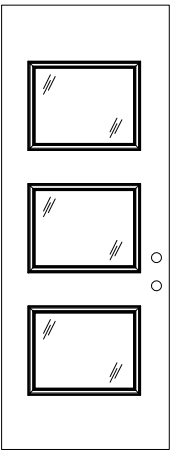


VERTICAL MULLION DETAIL

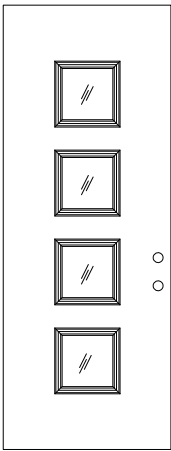
APPROVED LITE CONFIGURATIONS



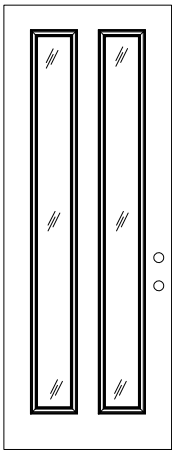
FULL LITE



3 LITE



4 LITE



2 LITE

NOTE:
ALL APPROVED CONFIGURATIONS ARE SHOWN
AS RIGHT HAND ACTIVE, LEFT HAND ACTIVE
IS ALSO APPROVED.

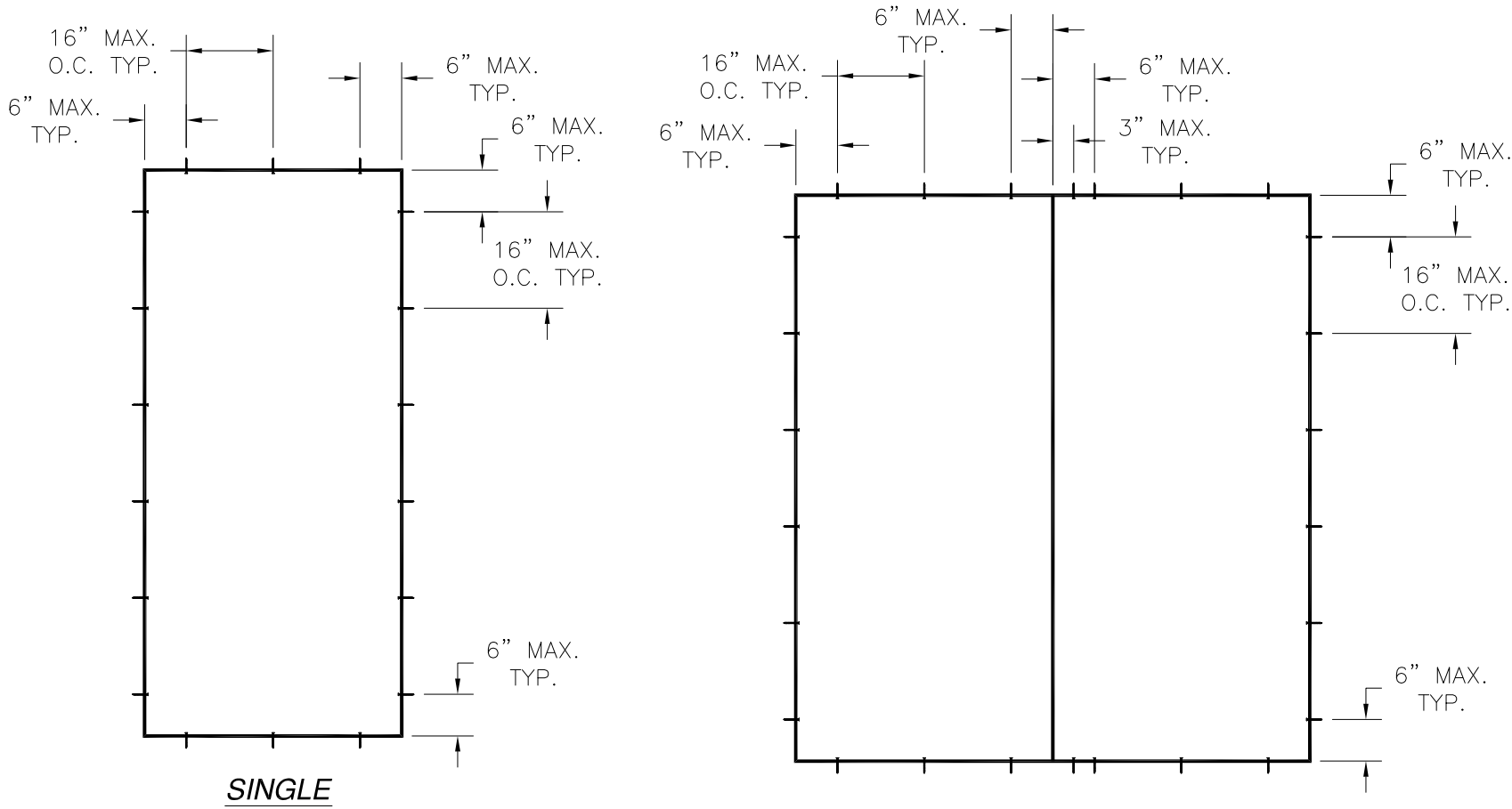
LITE CONFIGURATIONS SHOWN ARE FOR REFERENCE ONLY. MULTIPLE LITE
CONFIGURATIONS ARE APPROVED AS LONG AS LITE SIZE DOES NOT EXCEED 9.2 FT²

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR W/SIDELITES & TRANSOM NON-IMPACT APPROVED CONFIGURATIONS & COMPONENTS DETAILS		
DRAWN: V.L.	DWG NO. 08-02108	REV K
SCALE NTS	DATE 07/01/13	SHEET 3 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 12/26/2023

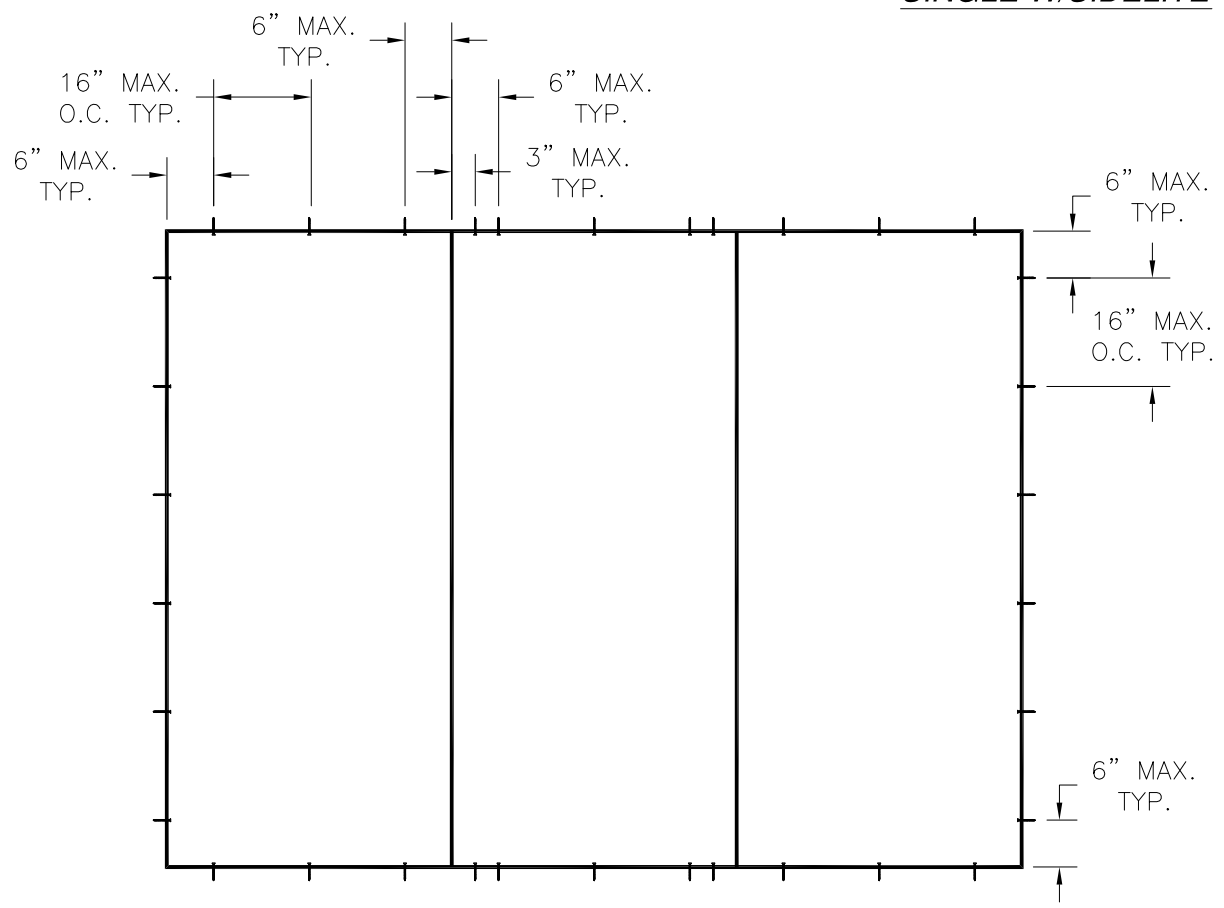


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FL No.: 62514



SINGLE

SINGLE W/SIDELITE



SINGLE W/SIDELITES

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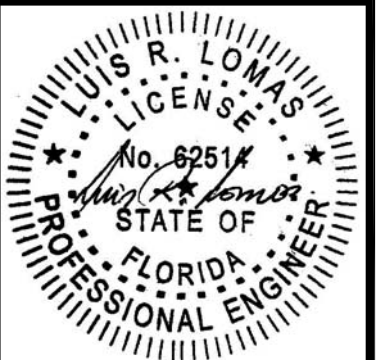
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
ANCHORING LAYOUTS

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SCALE NTS	DATE 07/01/13	SHEET 4 OF 13

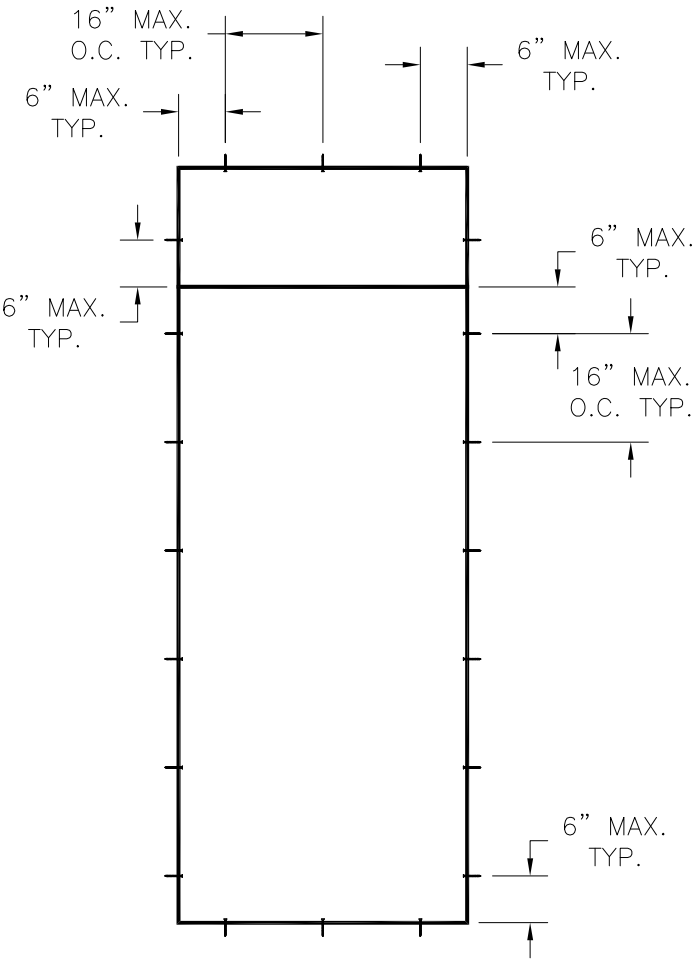
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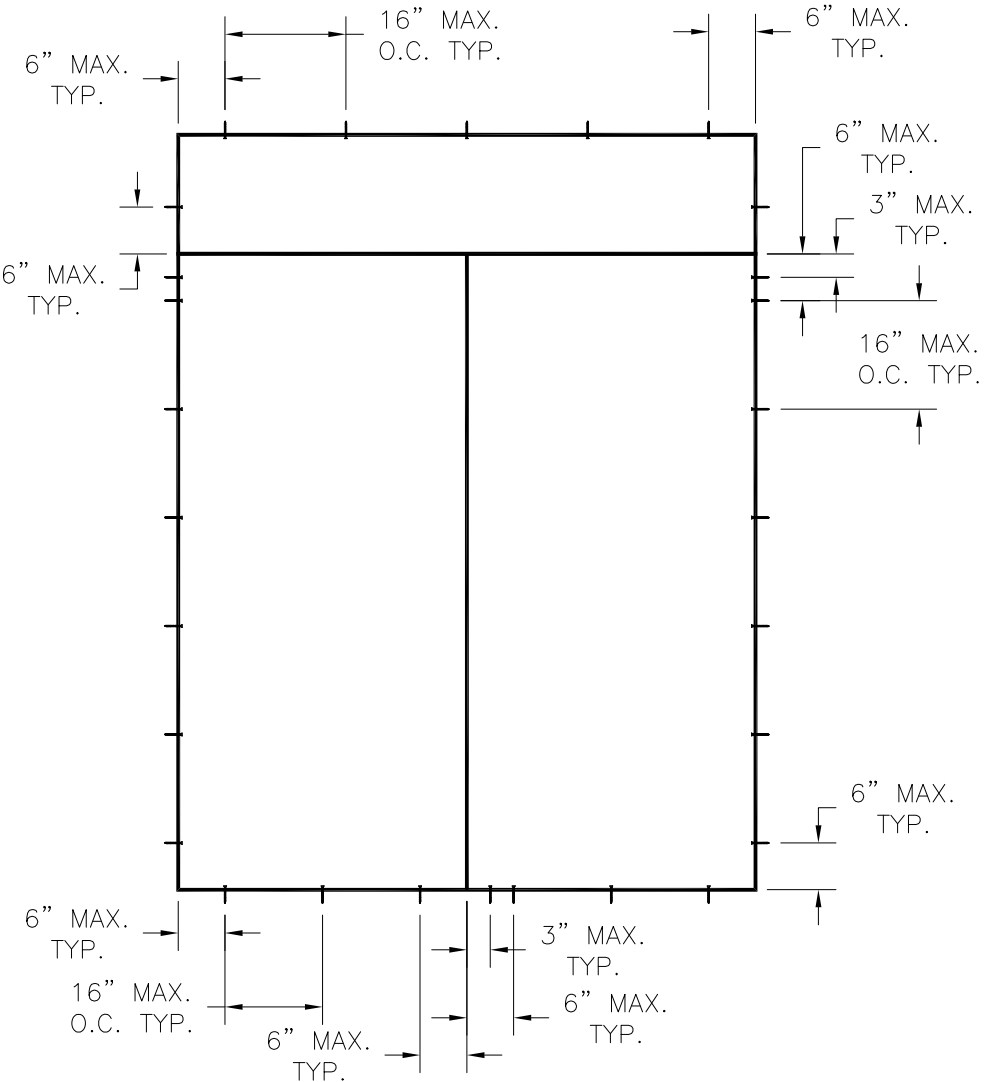


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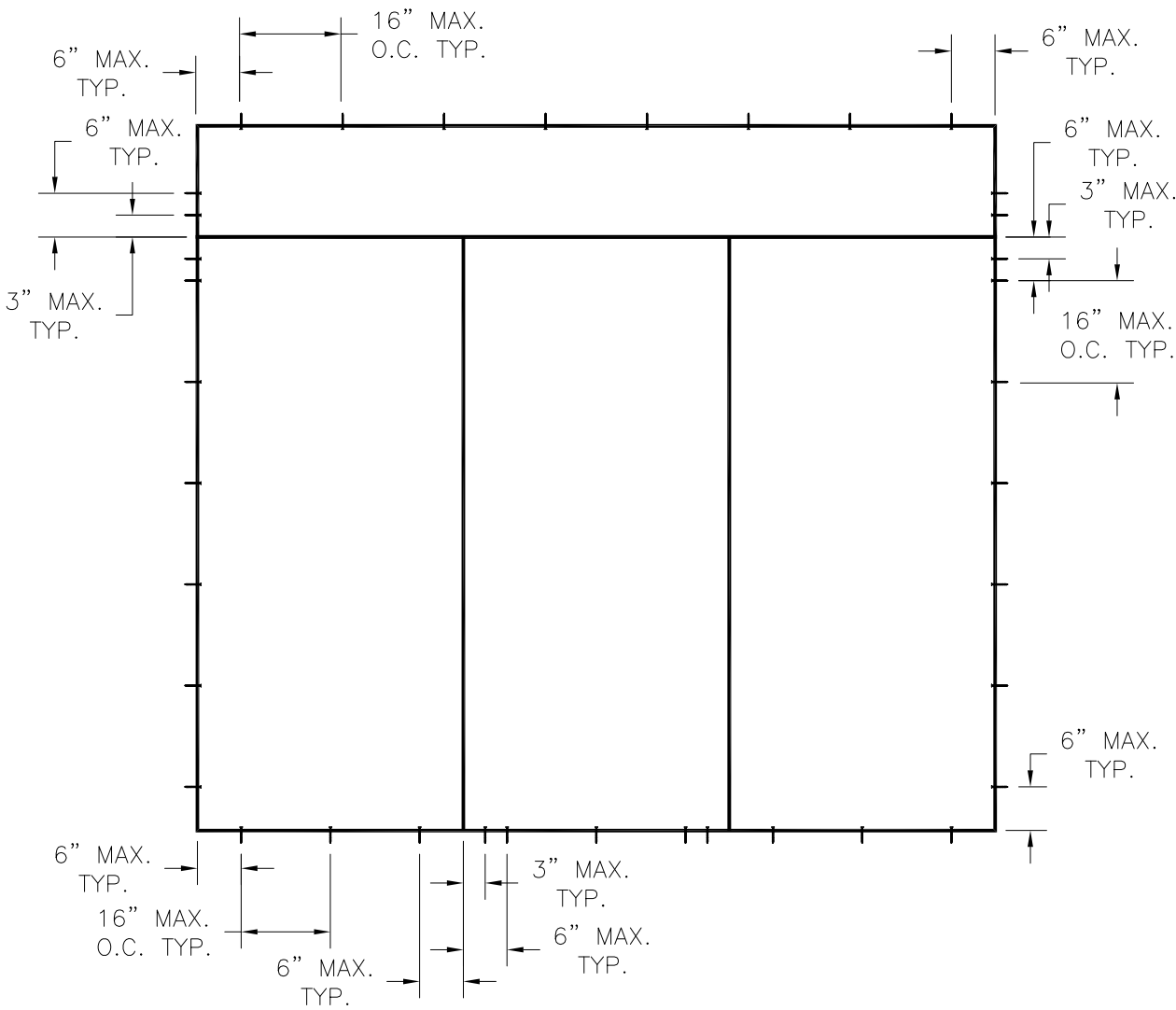
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SINGLE WITH TRANSOM



SINGLE W/SIDELITE & TRANSOM



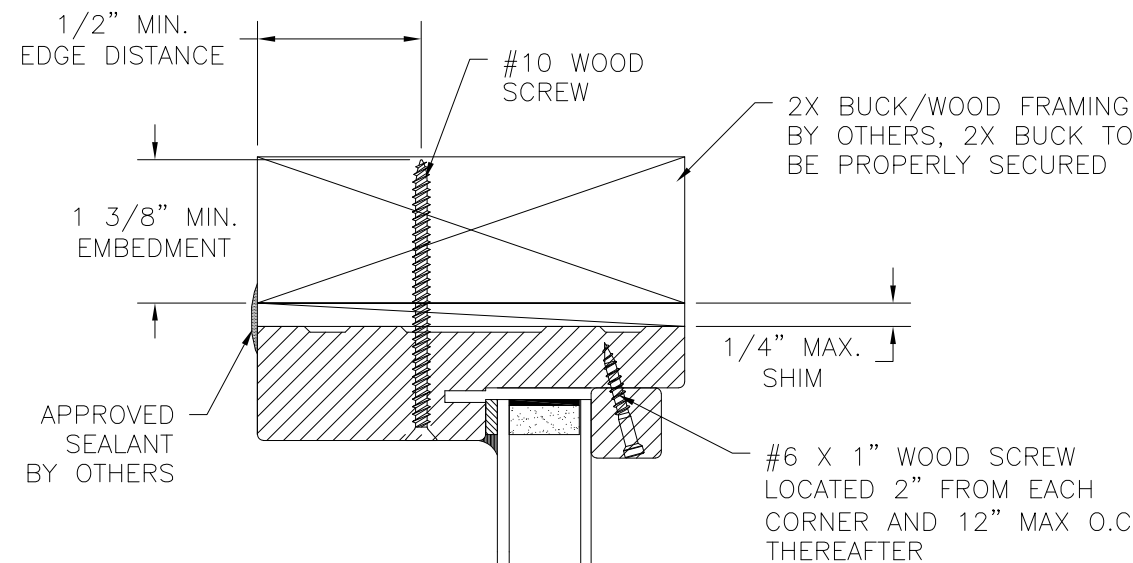
SINGLE W/SIDELITES & TRANSOM

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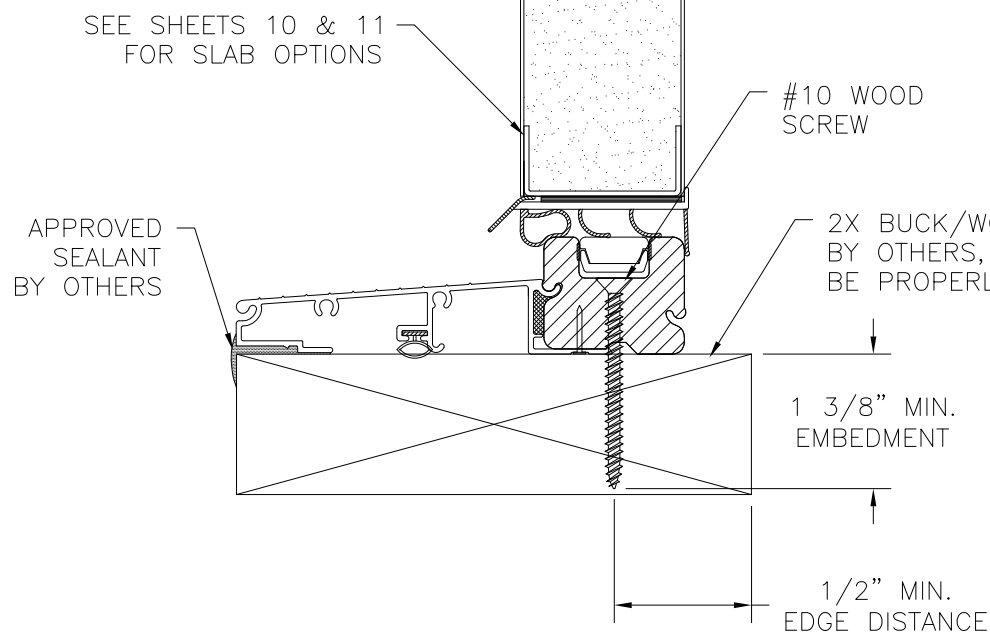
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR W/SIDELITES & TRANSOM NON-IMPACT ANCHORING LAYOUTS		
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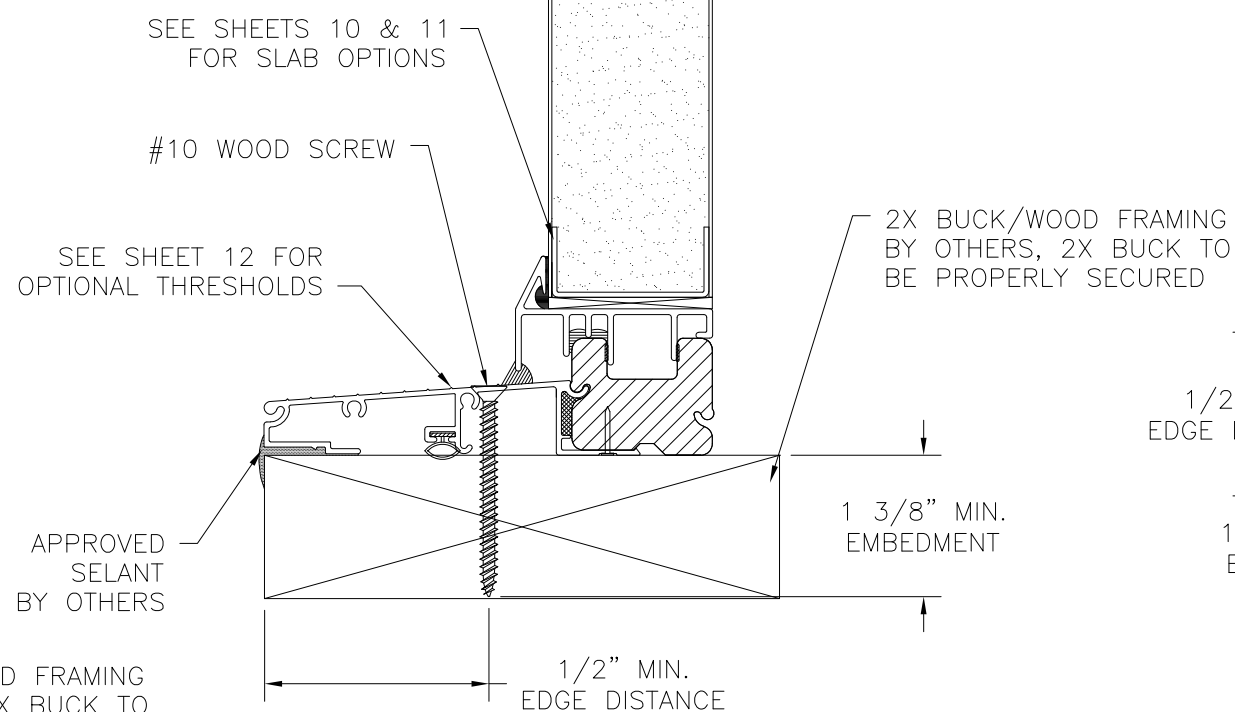


EXTERIOR INTERIOR



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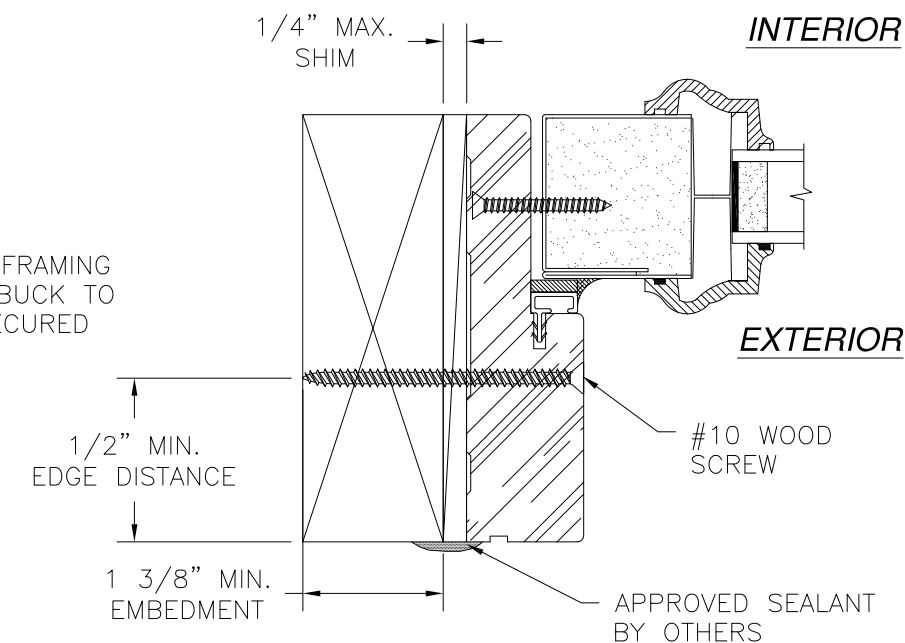
DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



SIDELITE SILL DETAIL

2X BUCK/WOOD FRAMING INSTALLATION

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JAMB DETAIL

2X BUCK/WOOD FRAMING INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD SIMILAR

NOTES:

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

PROVIA, LLC.

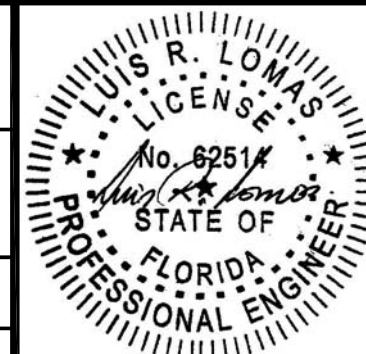
2150 STATE ROUTE 39 WEST
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STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
INSTALLATION DETAILS

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SCALE NTS	DATE 07/01/13	SHEET 6 OF 13

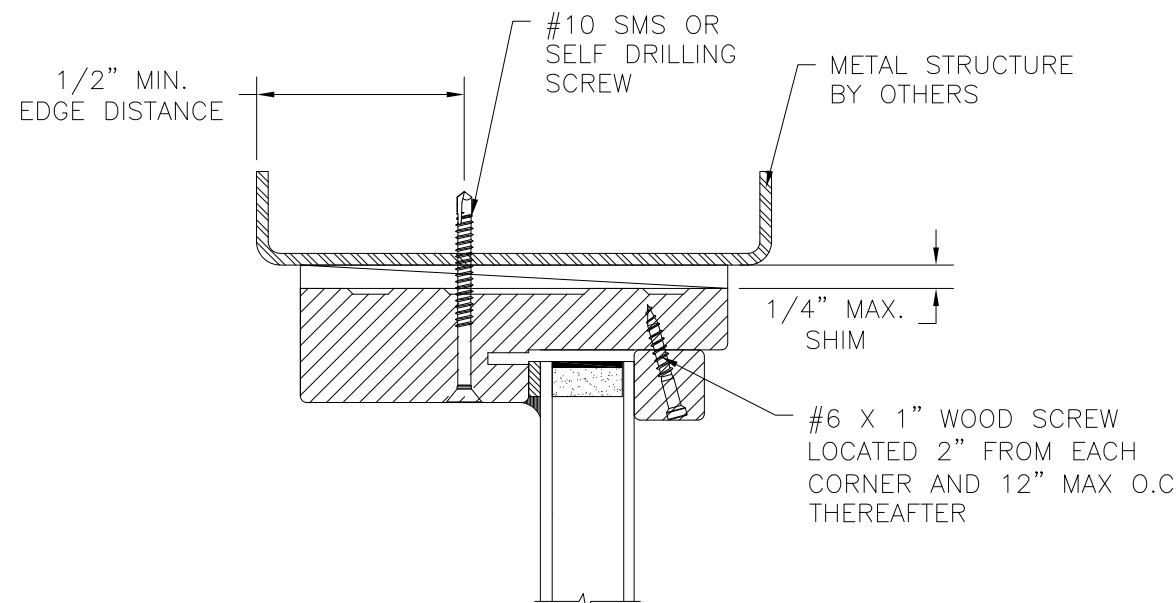
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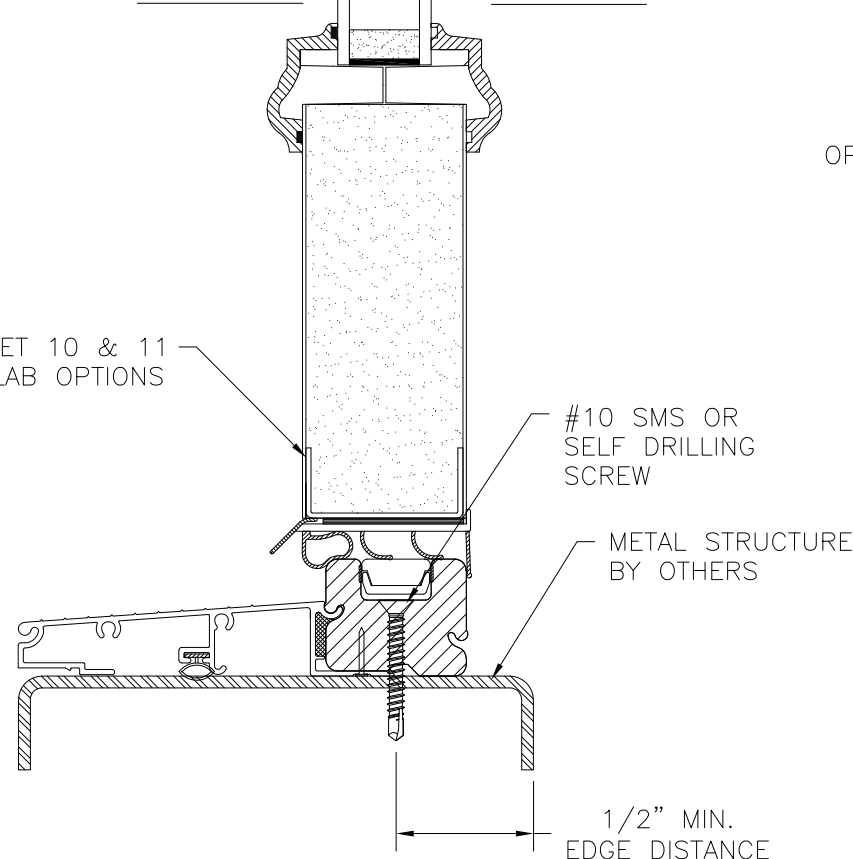
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EXTERIOR INTERIOR

SEE SHEET 10 & 11
FOR SLAB OPTIONS



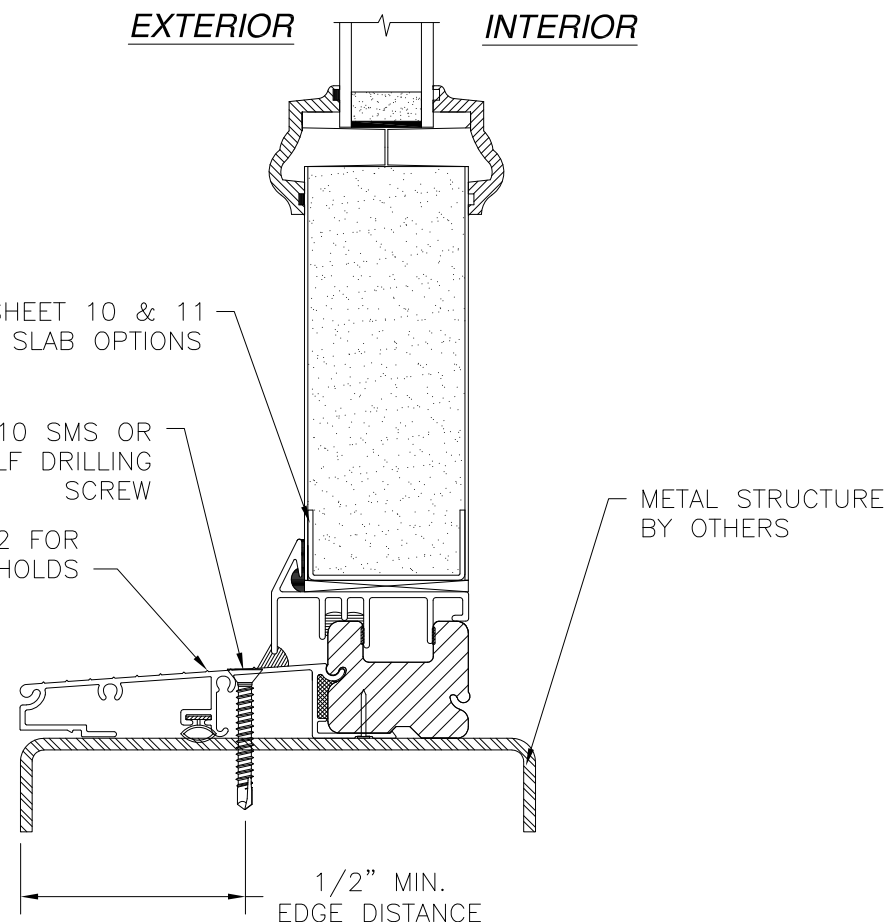
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DOOR AND TRANSOM INSTALLATION - METAL STRUCTURE INSTALLATION
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR

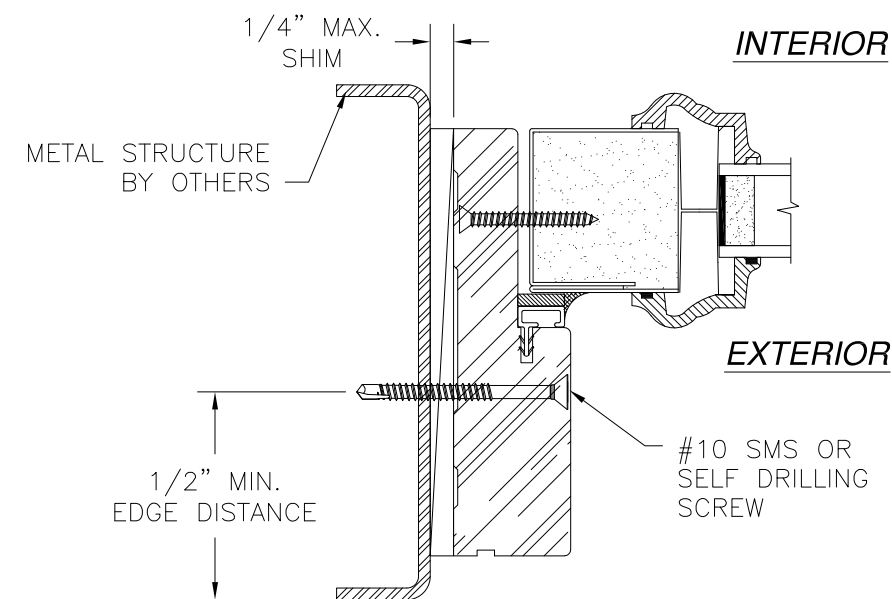
SEE SHEET 10 & 11
FOR SLAB OPTIONS

SEE SHEET 12 FOR
OPTIONAL THRESHOLDS

EXTERIOR INTERIOR



SIDELITE SILL DETAIL
METAL STRUCTURE INSTALLATION

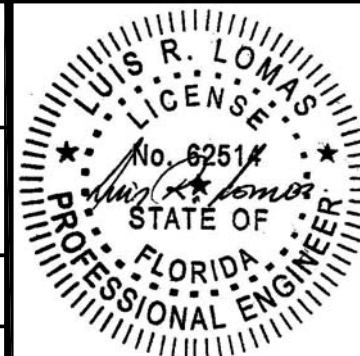


JAMB DETAIL
METAL STRUCTURE INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD SIMILAR

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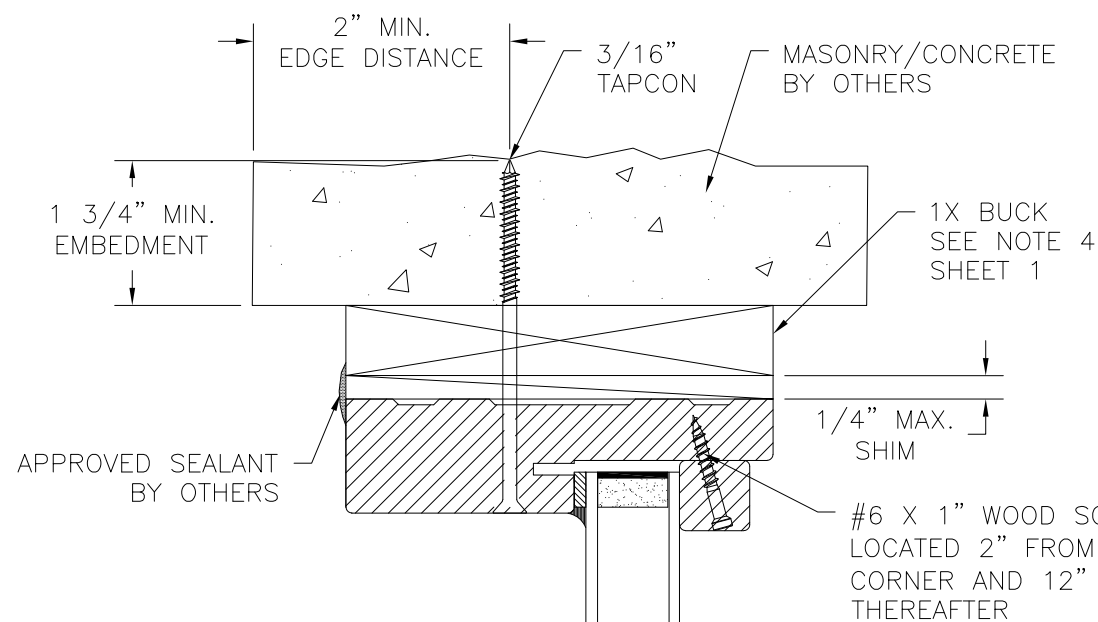
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SCALE NTS	DATE 07/01/13	SHEET 7 OF 13
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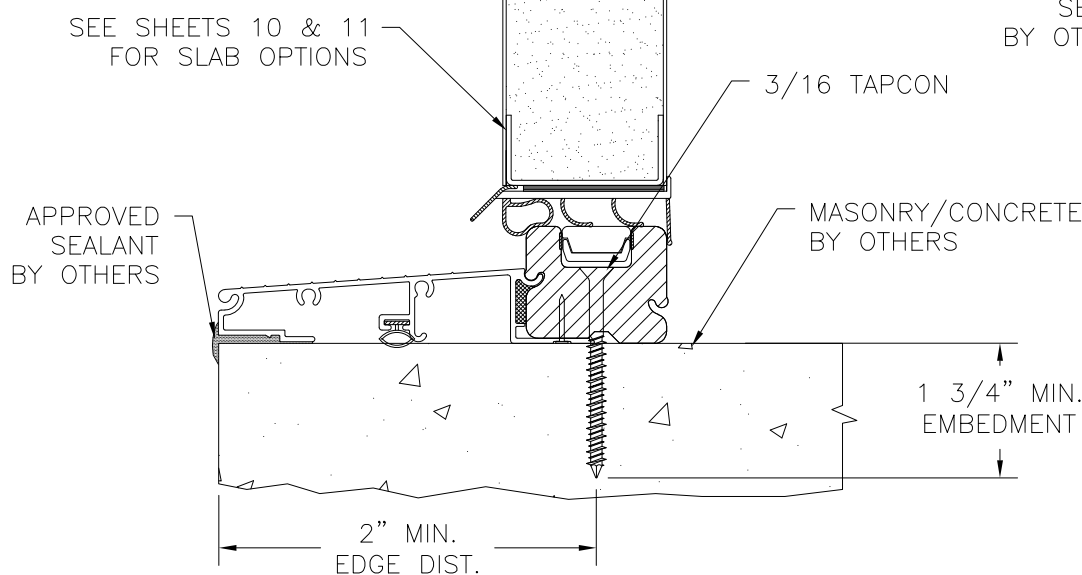


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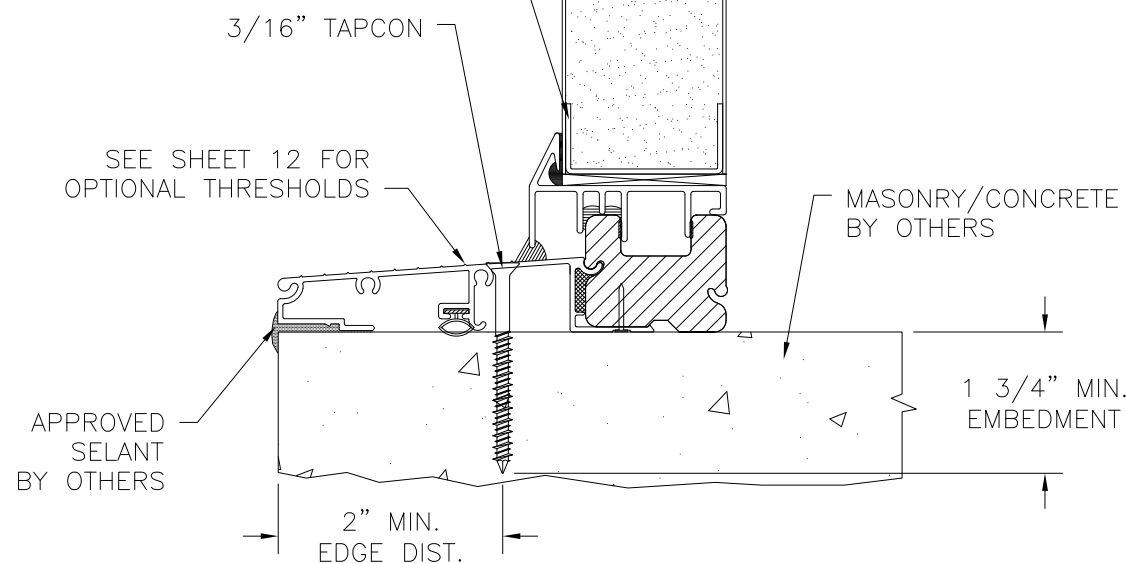
EXTERIOR INTERIOR



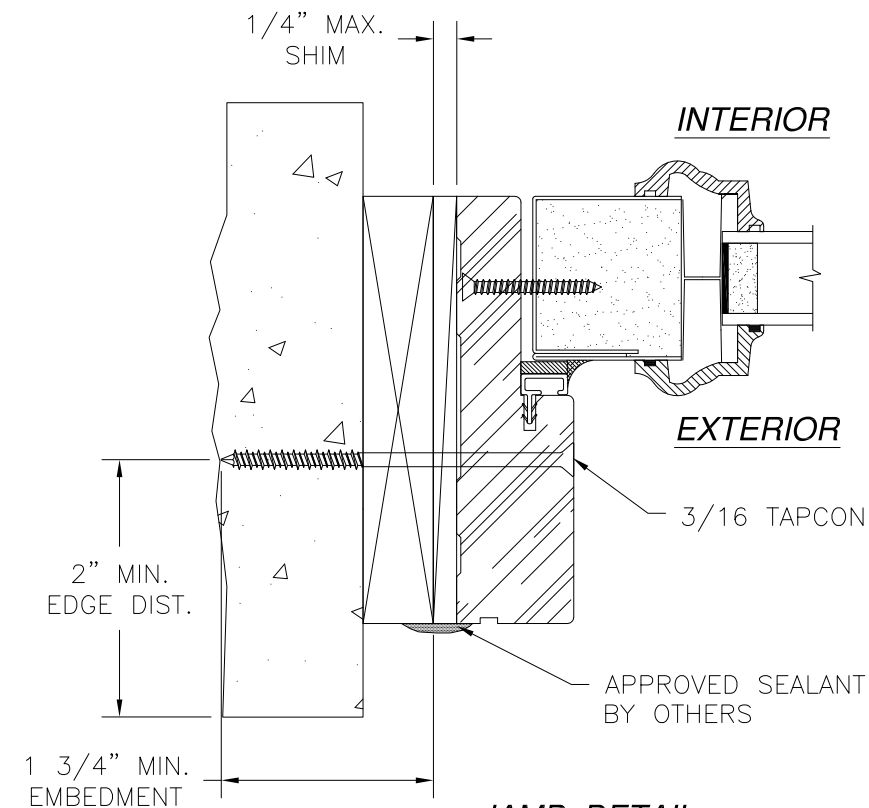
VERTICAL CROSS SECTION

DOOR AND TRANSOM INSTALLATION MASONRY/CONCRETE
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR

EXTERIOR INTERIOR



SIDELITE SILL DETAIL
MASONRY/CONCRETE INSTALLATION



JAMB DETAIL
MASONRY/CONCRETE INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD SIMILAR

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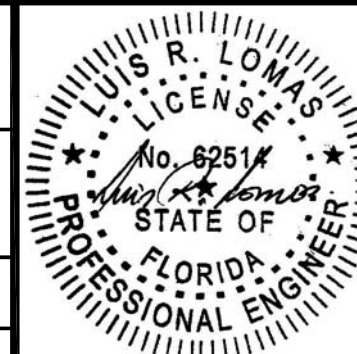
PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

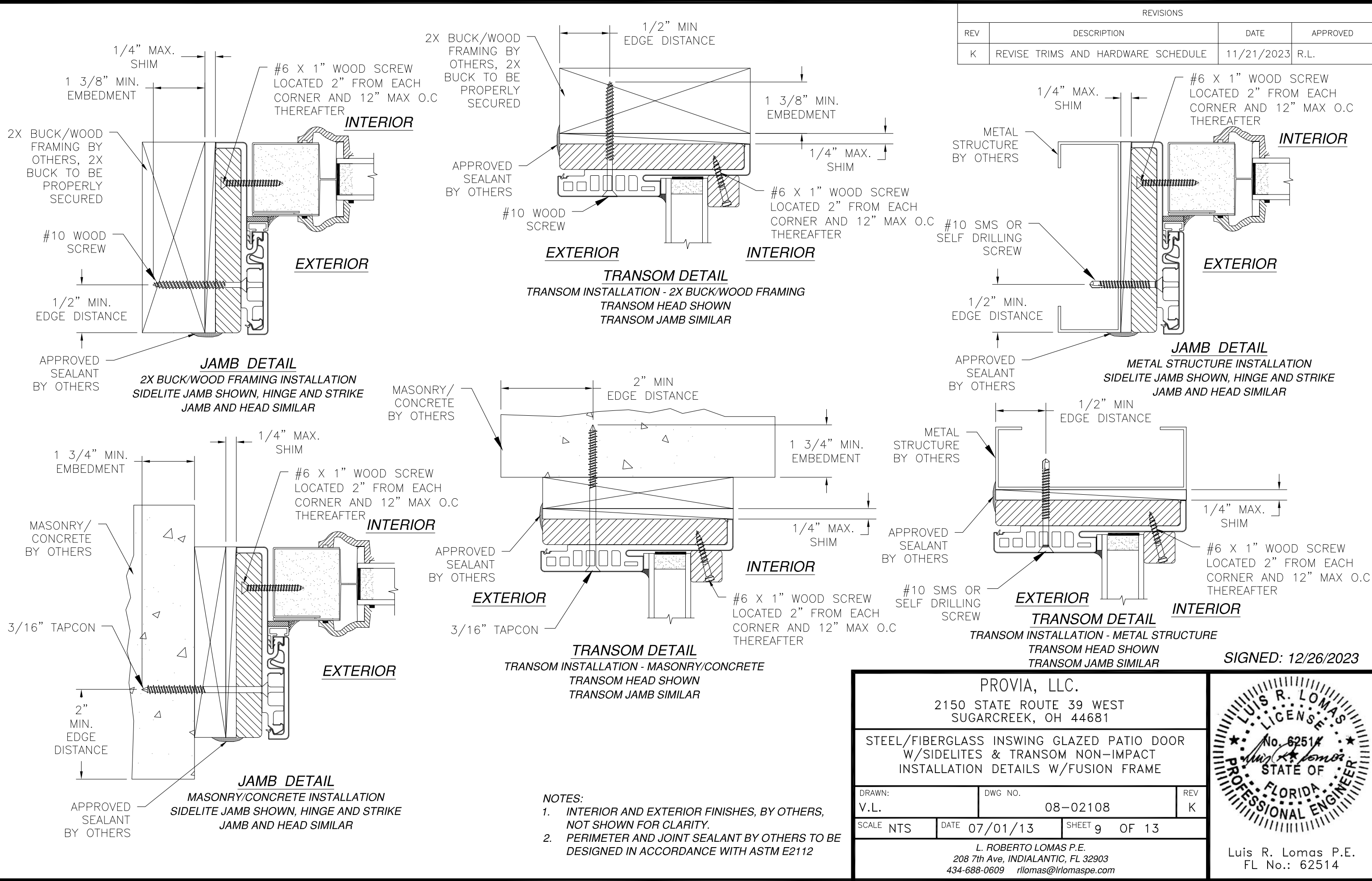
STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
INSTALLATION DETAILS

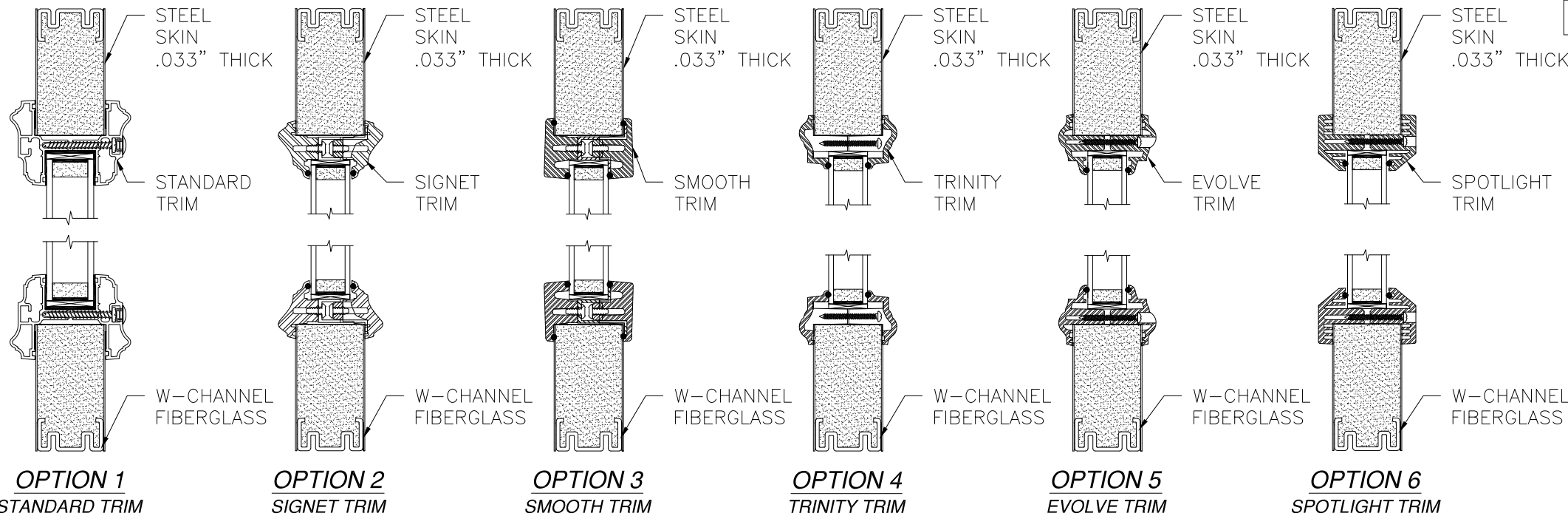
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SCALE NTS	DATE 07/01/13	SHEET 8 OF 13

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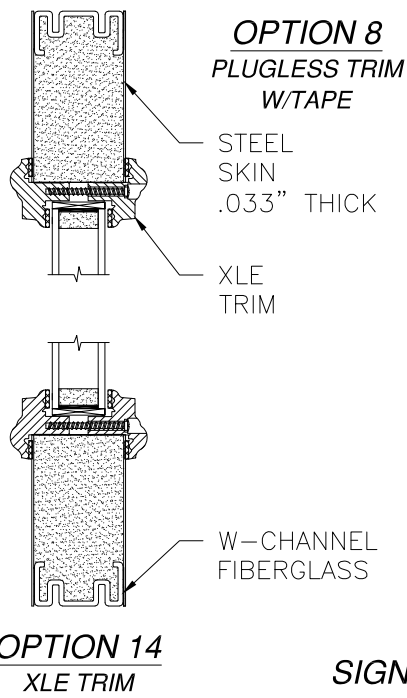
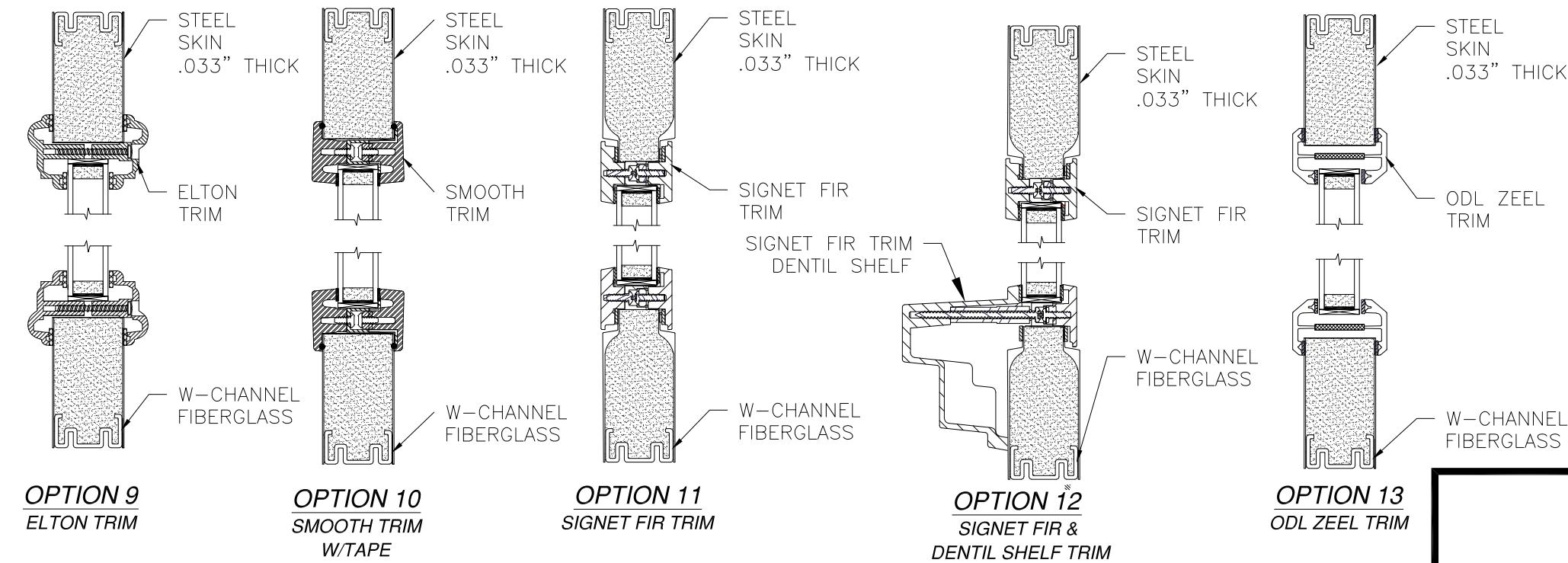
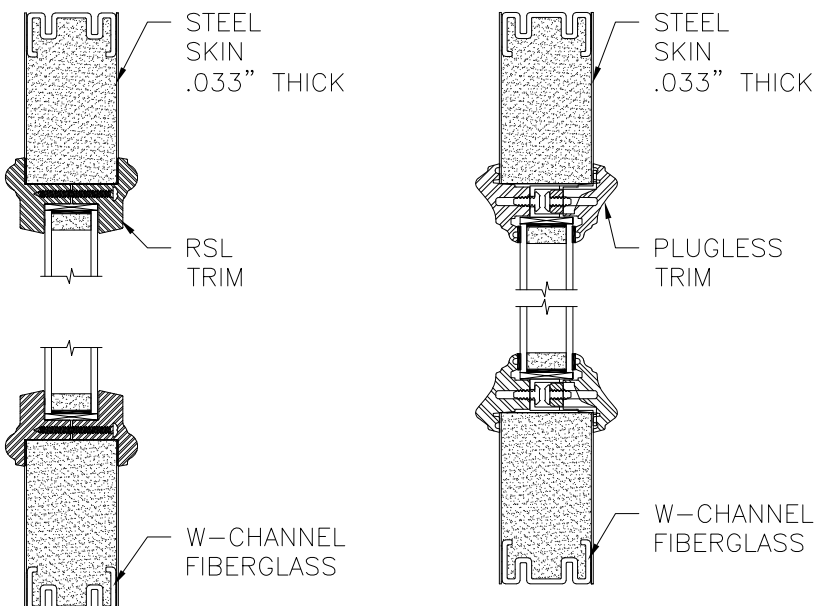


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APPROVED SLABS AND TRIMS

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2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
COMPONENTS DETAILS AND APPROVED PANELS

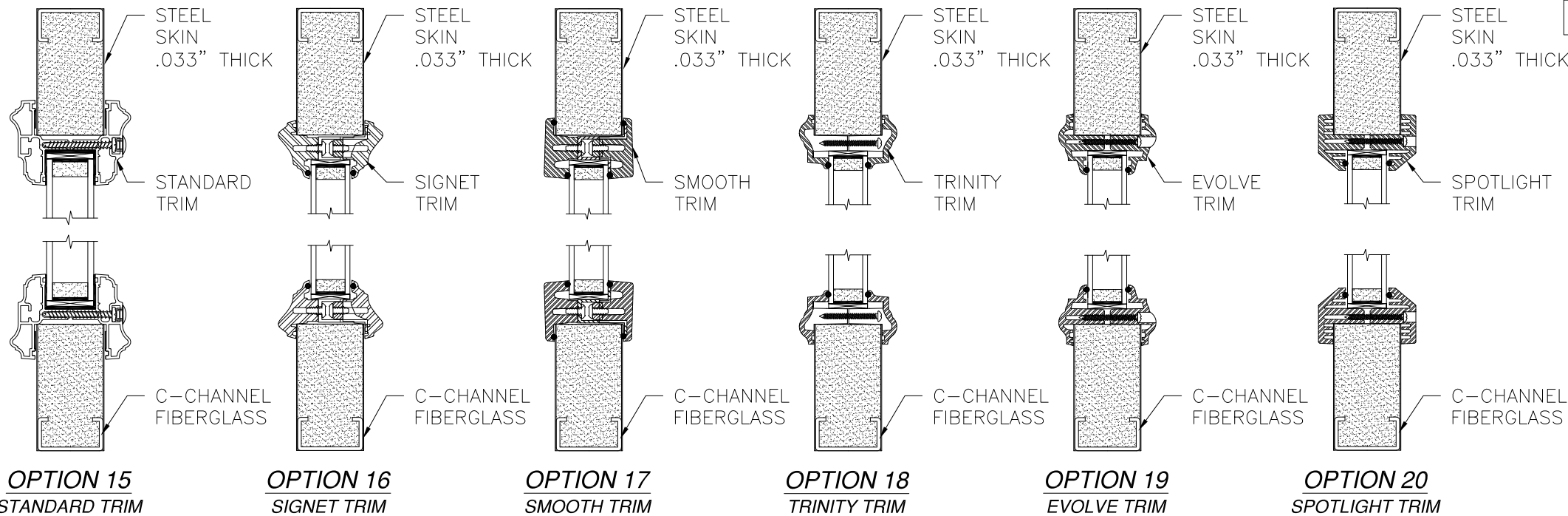
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434-688-0609 rllomas@lrlomaspe.com

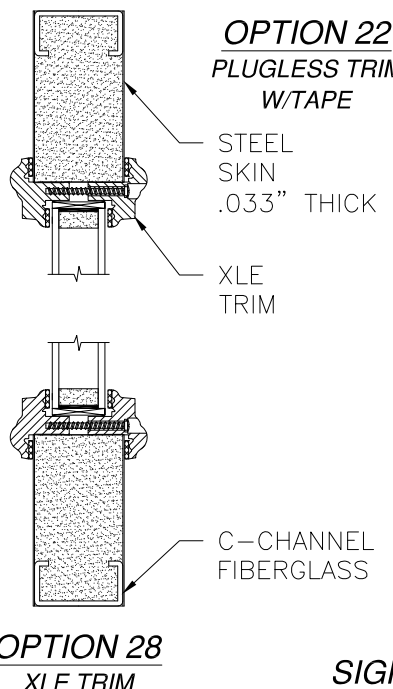
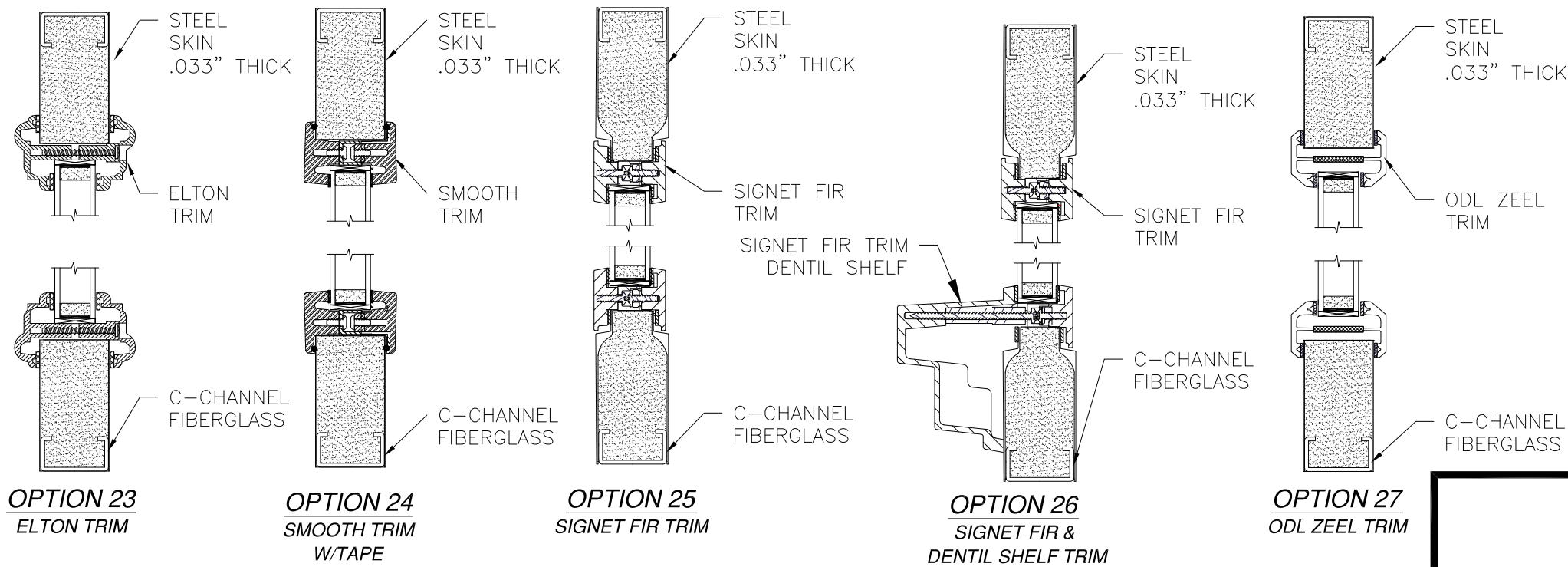
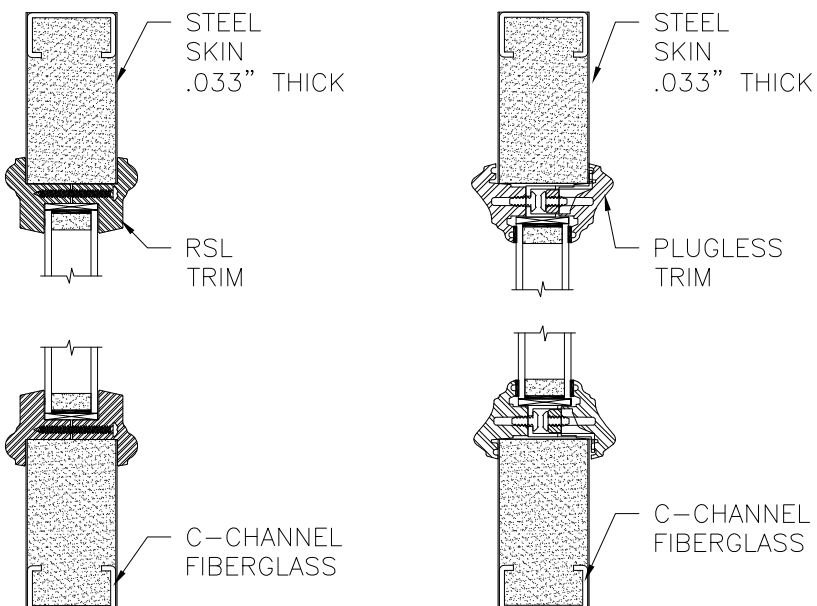
SIGNED: 12/26/2023



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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISE TRIMS AND HARDWARE SCHEDULE	11/21/2023	R.L.



APPROVED SLABS AND TRIMS

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

STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
APPROVED SLABS AND TRIMS

DRAWN:
V.L.

DWG NO.
08-02108

REV
K

SCALE
NTS

DATE
07/01/13

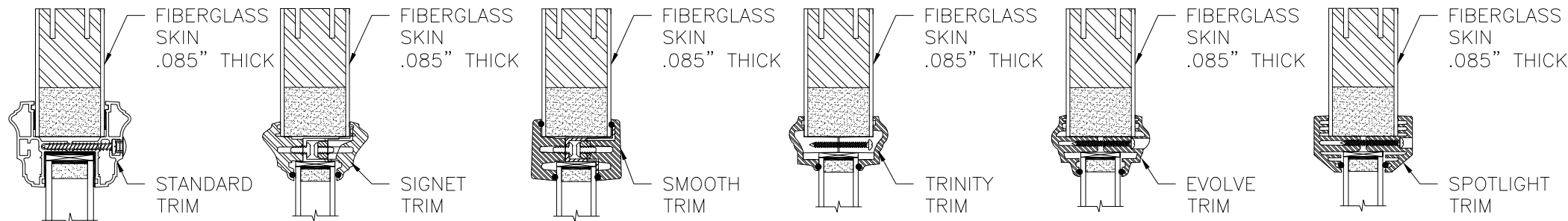
SHEET
11 OF 13

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



OPTION 29
STANDARD TRIM

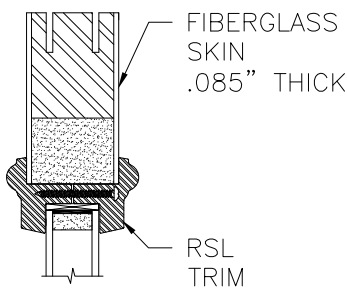
OPTION 30
SIGNET TRIM

OPTION 31
SMOOTH TRIM

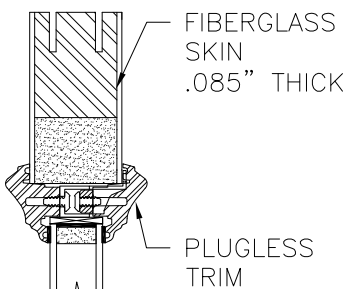
OPTION 32
TRINITY TRIM

OPTION 33
EVOLVE TRIM

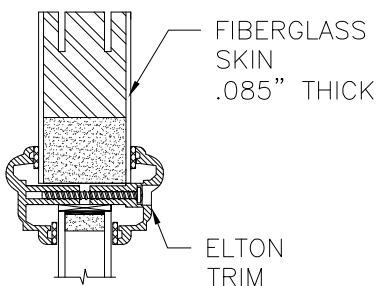
OPTION 34
SPOTLIGHT TRIM



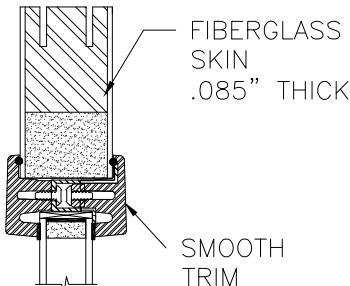
OPTION 35
RSL TRIM



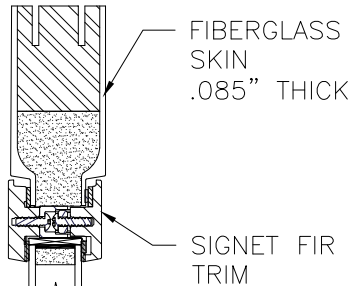
OPTION 36
PLUGLESS TRIM
W/TAPE



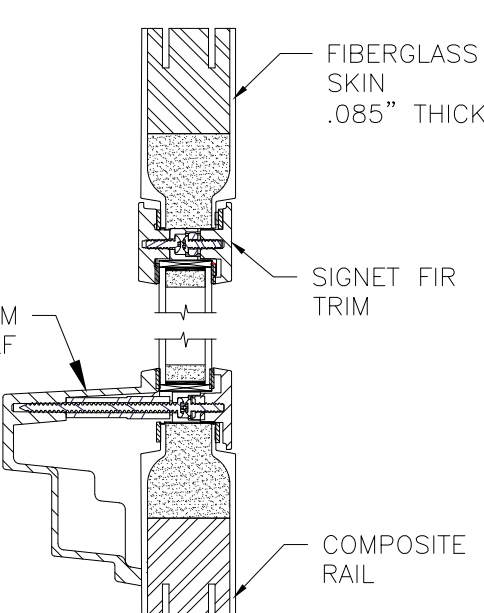
OPTION 37
ELTON TRIM



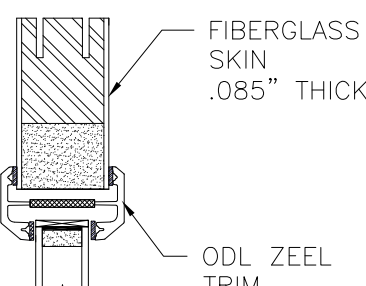
OPTION 38
SMOOTH TRIM
W/TAPE



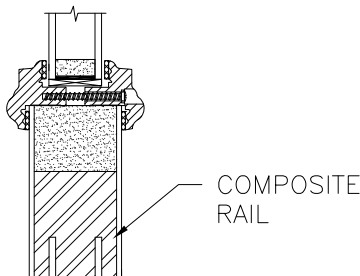
OPTION 39
SIGNET FIR TRIM



OPTION 40
SIGNET FIR &
DENTIL SHELF TRIM



OPTION 41
ODL ZEEL TRIM



OPTION 42
XLE TRIM

APPROVED SLABS AND TRIMS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISE TRIMS AND HARDWARE SCHEDULE	11/21/2023	R.L.

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

STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR
W/SIDELITES & TRANSOM NON-IMPACT
APPROVED SLABS AND TRIMS

DRAWN:
V.L.

DWG NO.
08-02108

REV
K

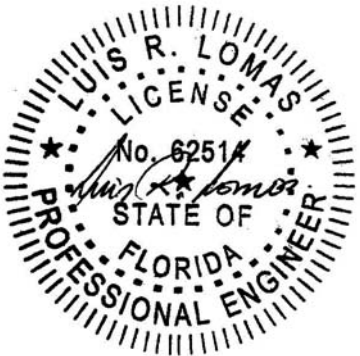
SCALE
NTS

DATE
07/01/13

SHEET
12 OF 13

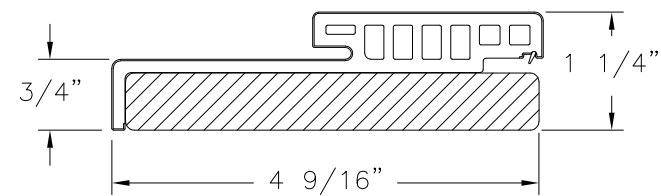
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/26/2023

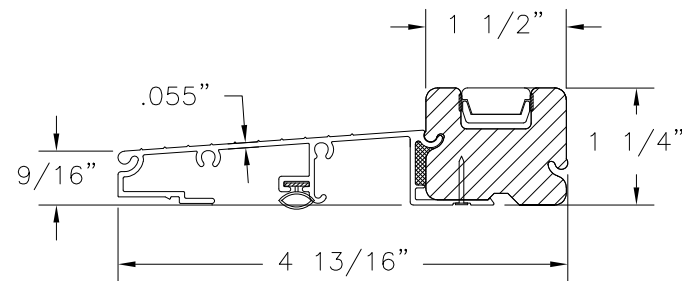


Luis R. Lomas P.E.
FL No.: 62514

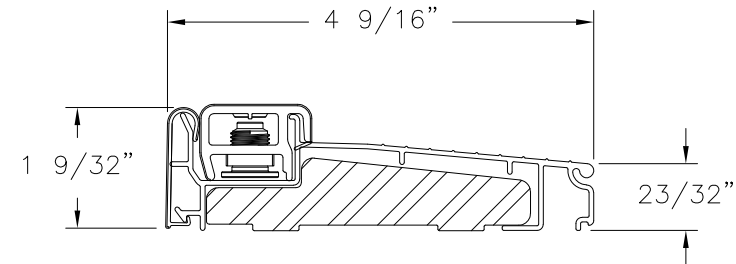
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISE TRIMS AND HARDWARE SCHEDULE	11/21/2023	R.L.



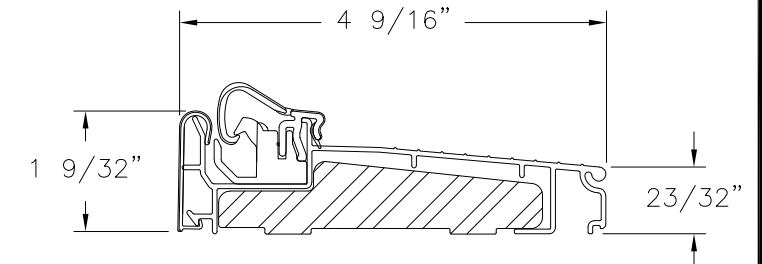
HYBRID HEAD
WOOD/COMPOSITE



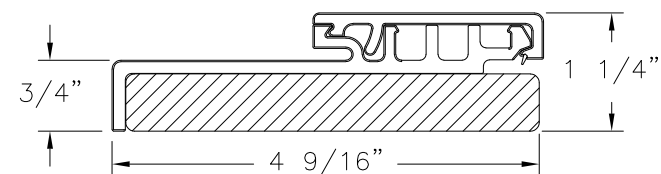
SAHARA INSWING THRESHOLD



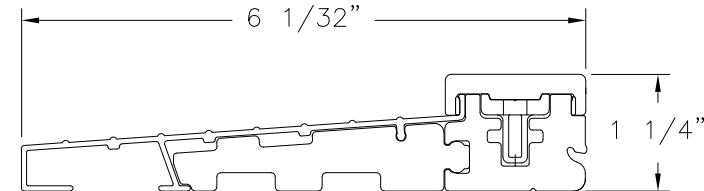
INSWING SILL ZAIL4565



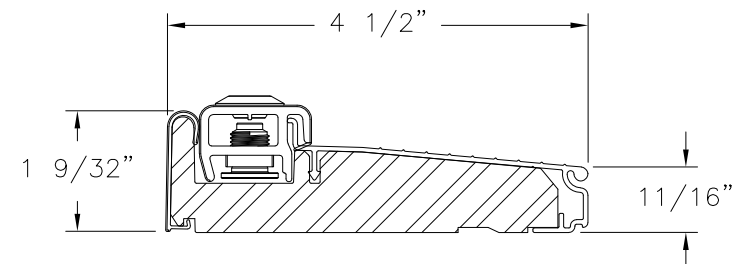
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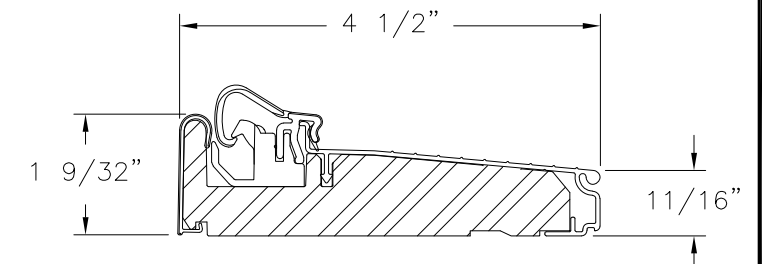
HYBRID JAMB
WOOD/COMPOSITE



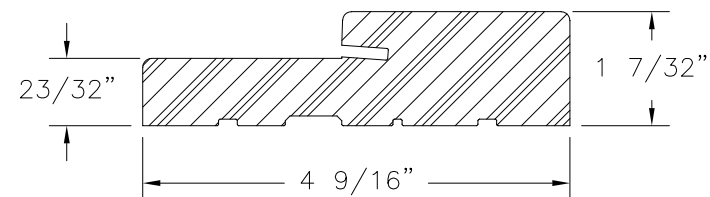
STANDARD INSWING THRESHOLD



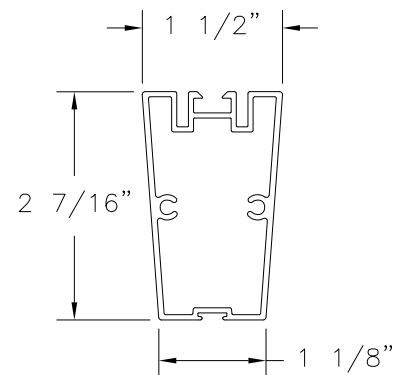
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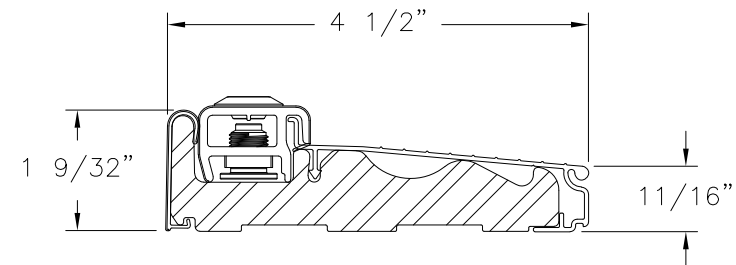
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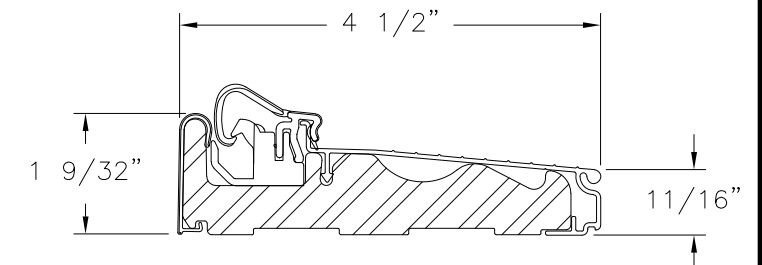
FRAMESAVER
COMPOSITE



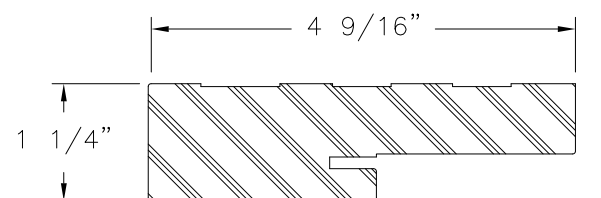
PATIO DOOR MULLION
EXTRUDED ALUMINUM 6063-T6 .055" THICK



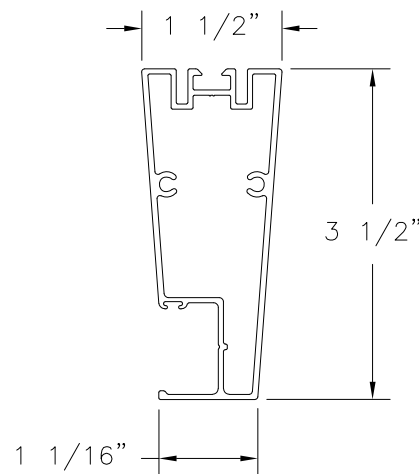
INSWING SILL ZAILH4565



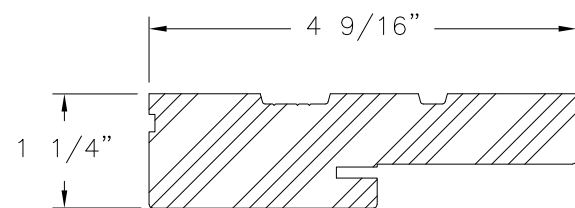
INSWING SILL ZACLH4565



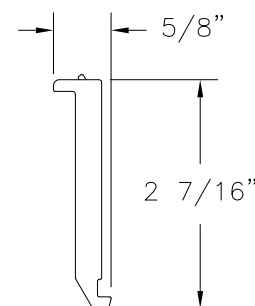
COMPOSITE FRAME PROFILE



**PATIO DOOR MULLION
WITH SCREEN TRACK**
EXTRUDED ALUMINUM 6063-T6 .055" THICK



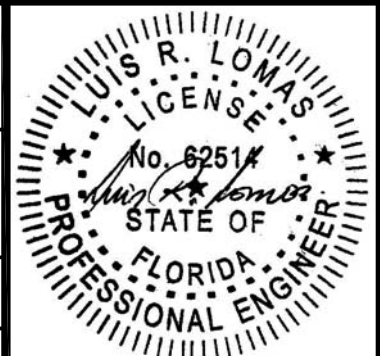
WOOD FRAME PROFILE



MULLION INSERT
EXTRUDED RIGID PVC .281" THICK

SIGNED: 12/26/2023

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING GLAZED PATIO DOOR W/SIDELITES & TRANSOM NON-IMPACT COMPONENTS		
DRAWN: V.L.	DWG NO. 08-02108	REV K
SCALE NTS	DATE 07/01/13	SHEET 13 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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