

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
5. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. FRAME MATERIAL: WOOD WITH G=.46 MINIMUM SPECIFIC GRAVITY, OR COMPOSITE, OR FRAMESAVER, OR FUSION FRAME.
DOOR SKIN MATERIAL: STEEL .033” THICK (MINIMUM)
SIDELITE SKIN MATERIAL: STEEL .022” THICK (MINIMUM)
7. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 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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13 – 16	APPROVED SLABS, MULLION DETAILS AND COMPONENTS

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

STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES
AND TRANSOM – IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08-02021

REV
J

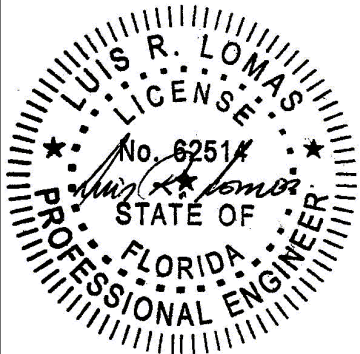
SCALE NTS

DATE 04/22/13

SHEET 1 OF 16

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

SIGNED: 08/27/2024



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FL No.: 62514

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APPROVED LITE CONFIGURATIONS

FULL LITE

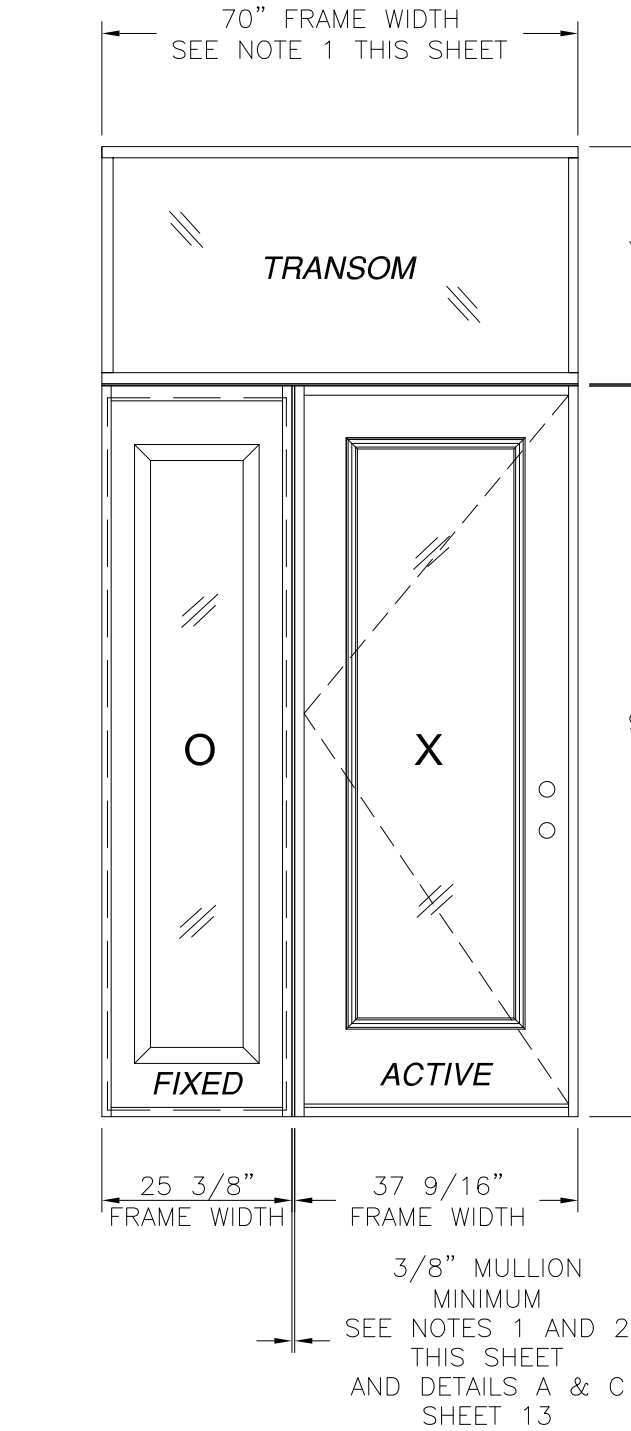
3 LITE

4 LITE

2 LITE

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

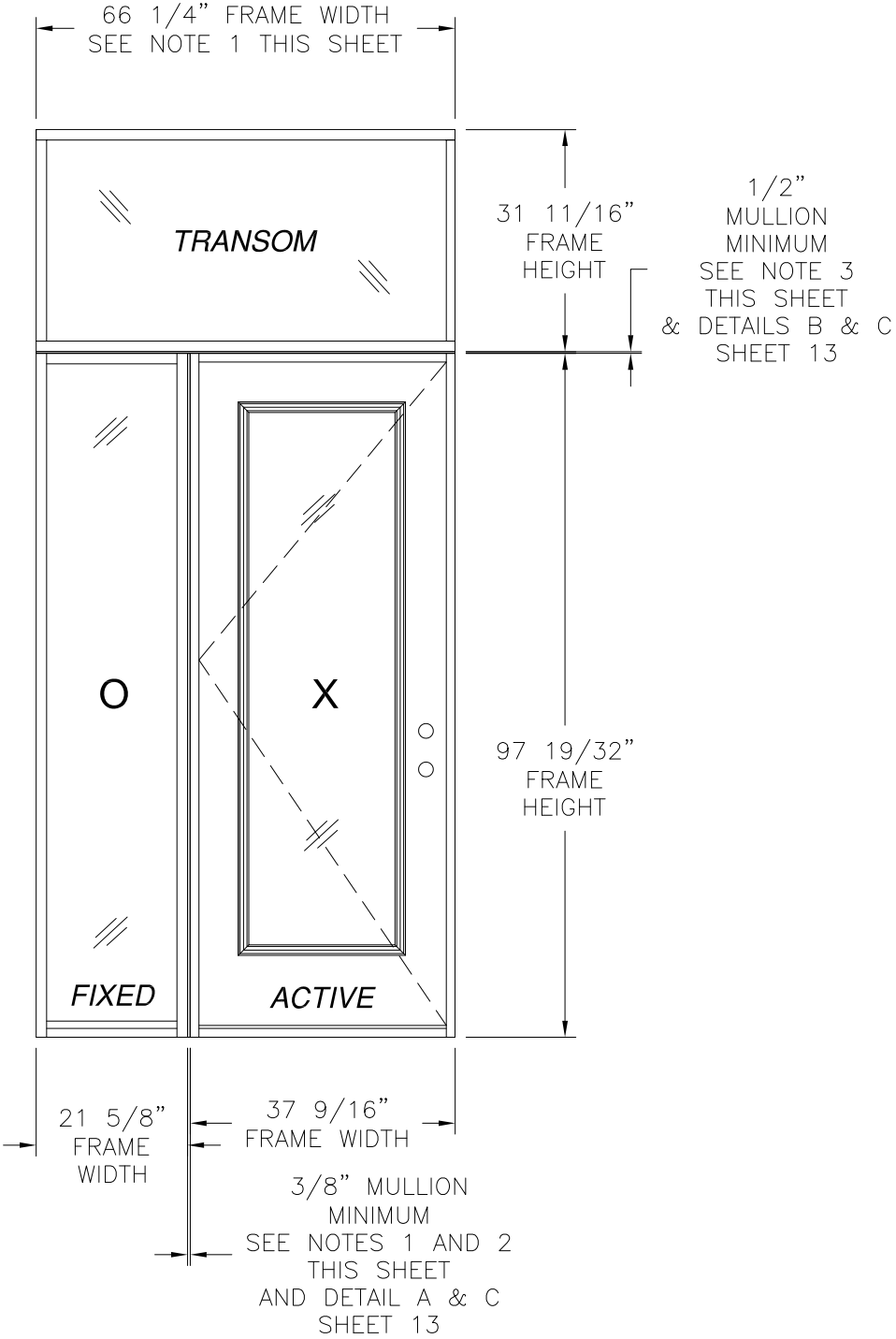
- NOTES:
1. MAXIMUM ALLOWED BUILD UP TO BE 7"
 2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED.
 3. IF TRANSOM HEIGHT IS 16" OR LESS NO HORIZONTAL MULLION IS REQUIRED.
 4. DOOR PANEL SIZE: 35 3/4" X 94 15/16"
 5. SIDELITE PANEL SIZE: 23 7/8" X 95 1/8"
 6. DOOR PANEL D.L.O.: 20 3/8" X 78 1/2"
 7. SIDELITE PANEL D.L.O.: 12 3/8" X 78 3/8"
 8. DIRECT SET D.L.O.: 18 5/8" X 93 25/32"



SINGLE DOOR W/ STD SIDELITE AND TRANSOM
EXTERIOR VIEW
OX SHOWN XO ALSO APPROVED

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3



SINGLE DOOR W/ DIRECT SET SIDELITE AND TRANSOM
EXTERIOR VIEW
OX SHOWN XO ALSO APPROVED

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 OUTSWING GLAZED SINGLE DOOR W/SIDELITES
AND TRANSOM – IMPACT
ELEVATIONS AND APPROVED CONFIGURATIONS

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V.L.

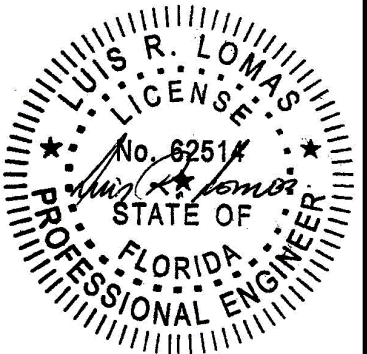
DWG NO.
08-02021

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J

SCALE NTS DATE 04/22/13 SHEET 2 OF 16

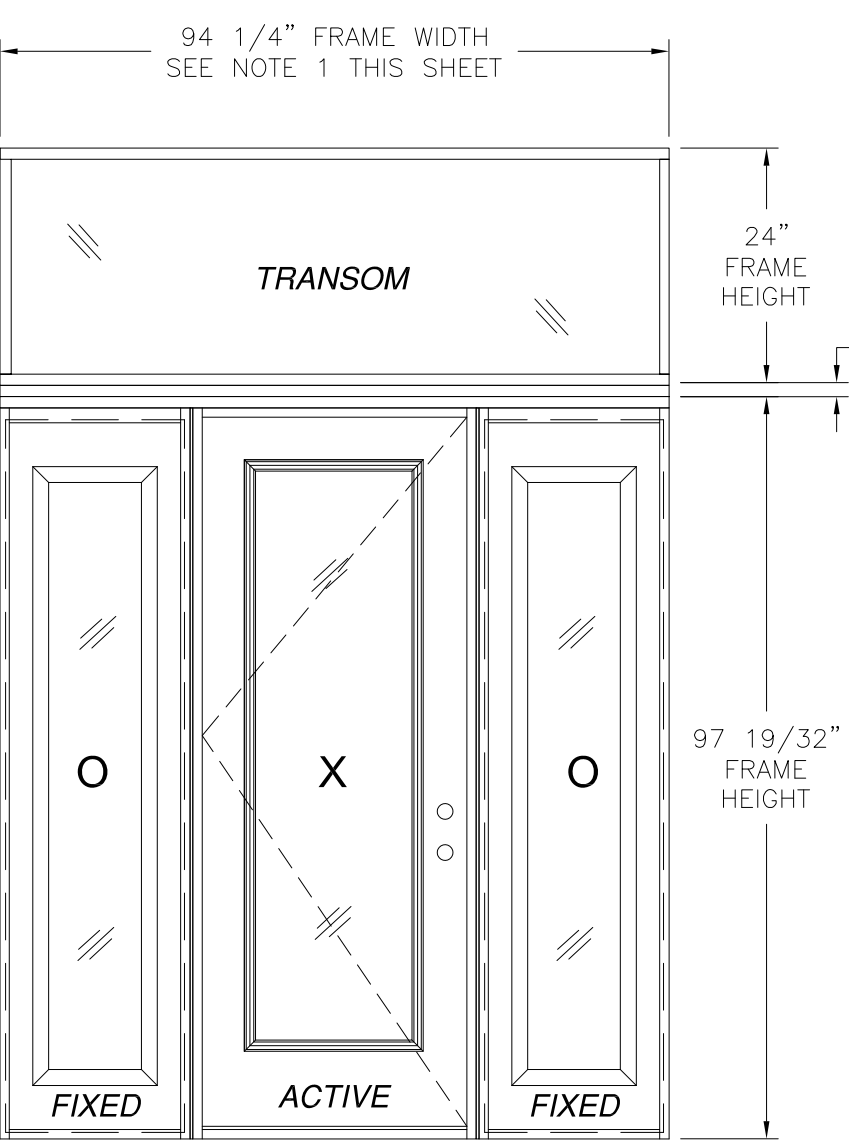
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1 3/4" MULLION MINIMUM
SEE DETAIL D
SHEET 13

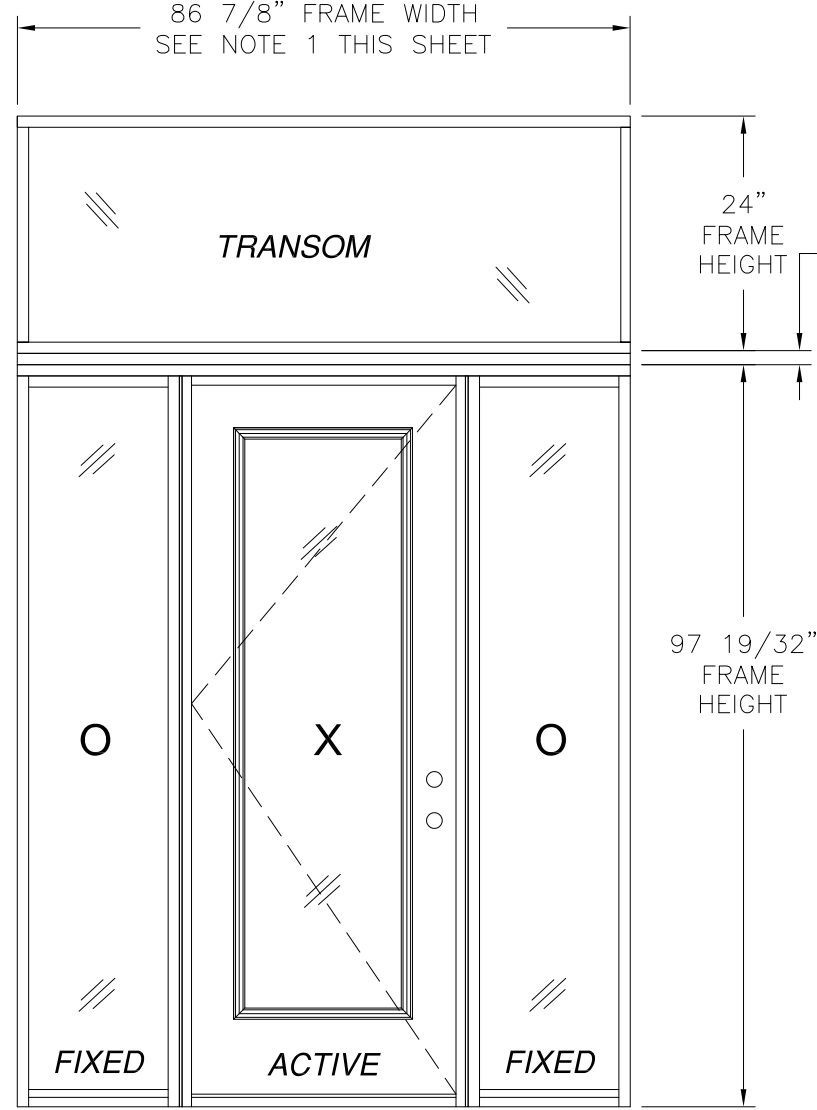
3/8" MULLION MINIMUM
SEE NOTES 1 AND 2
THIS SHEET & DETAILS A & C
SHEET 13

3/8" MULLION MINIMUM
SEE NOTES 1 AND 2
THIS SHEET & DETAILS A & C
SHEET 13

SINGLE DOOR W/ STD SIDELITES AND TRANSOM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3



1 3/4" MULLION MINIMUM
SEE DETAIL D
SHEET 13

3/8" MULLION MINIMUM
SEE NOTES 1 AND 2
THIS SHEET & DETAIL A & C
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3/8" MULLION MINIMUM
SEE NOTES 1 AND 2
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SHEET 13

SINGLE DOOR W/ DIRECT SET SIDELITES AND TRANSOM
EXTERIOR VIEW

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MISSILE LEVEL D, WIND ZONE 3

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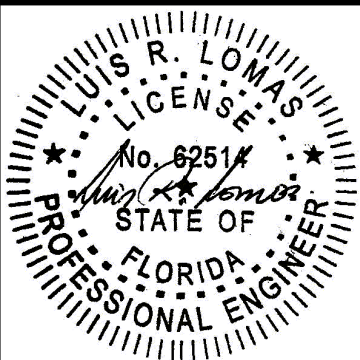
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SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES AND TRANSOM – IMPACT
ELEVATIONS AND APPROVED CONFIGURATIONS

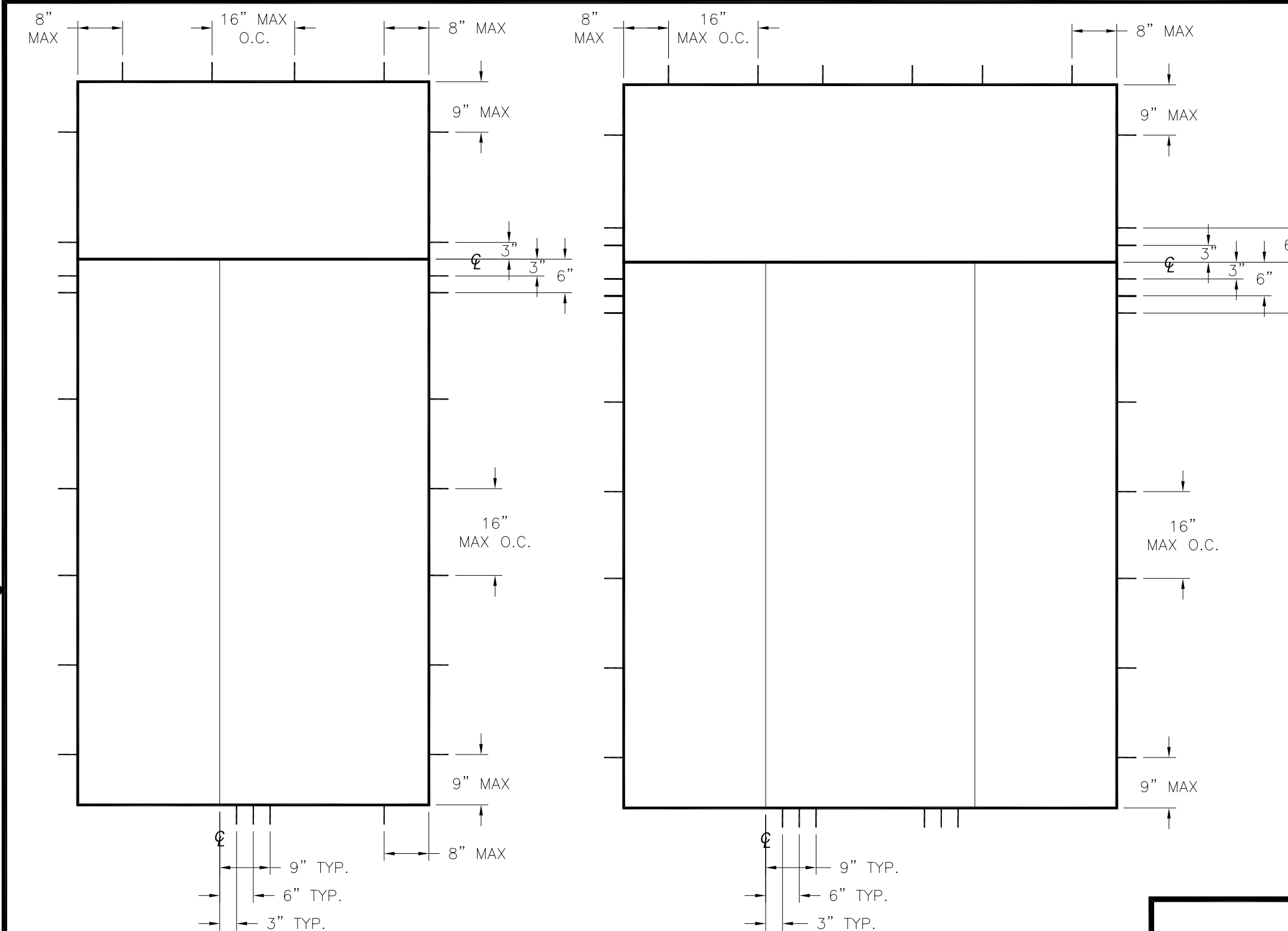
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SCALE NTS DATE 04/22/13 SHEET 3 OF 16

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SINGLE W/SIDELITE AND TRANSOM

SINGLE W/SIDELITES AND TRANSOM

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)

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STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES
AND TRANSOM – IMPACT
ANCHORING LAYOUTS

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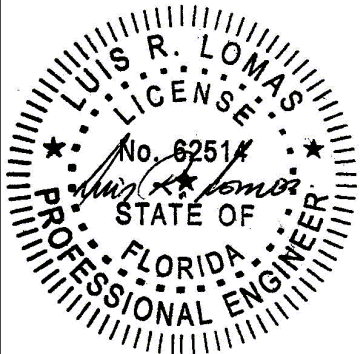
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DATE 04/22/13

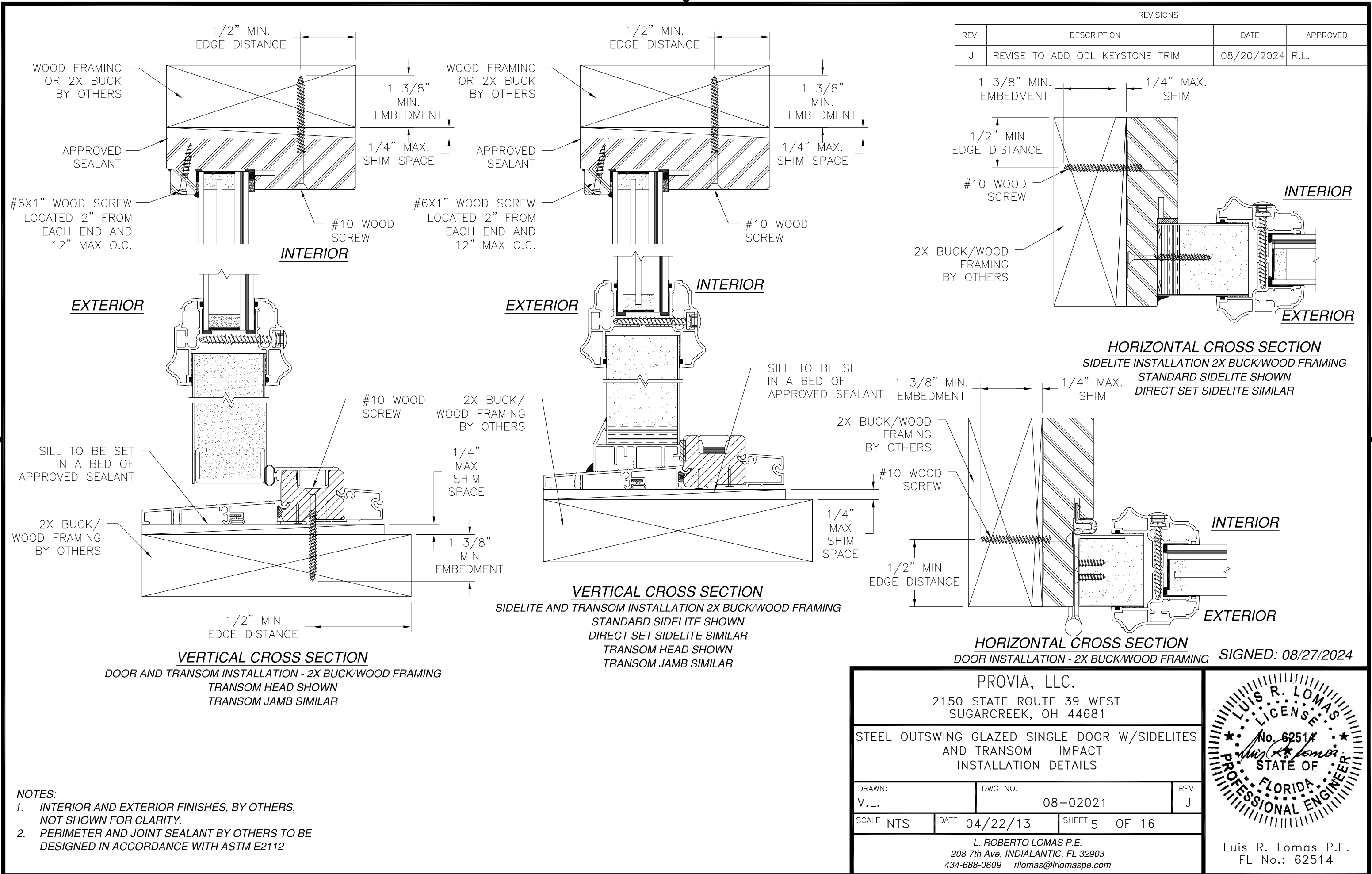
SHEET 4 OF 16

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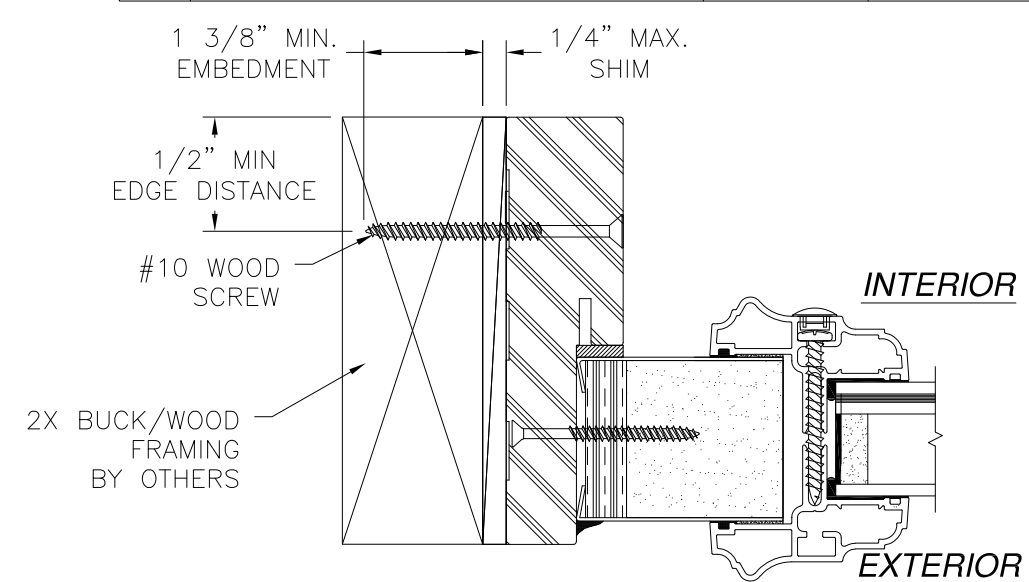
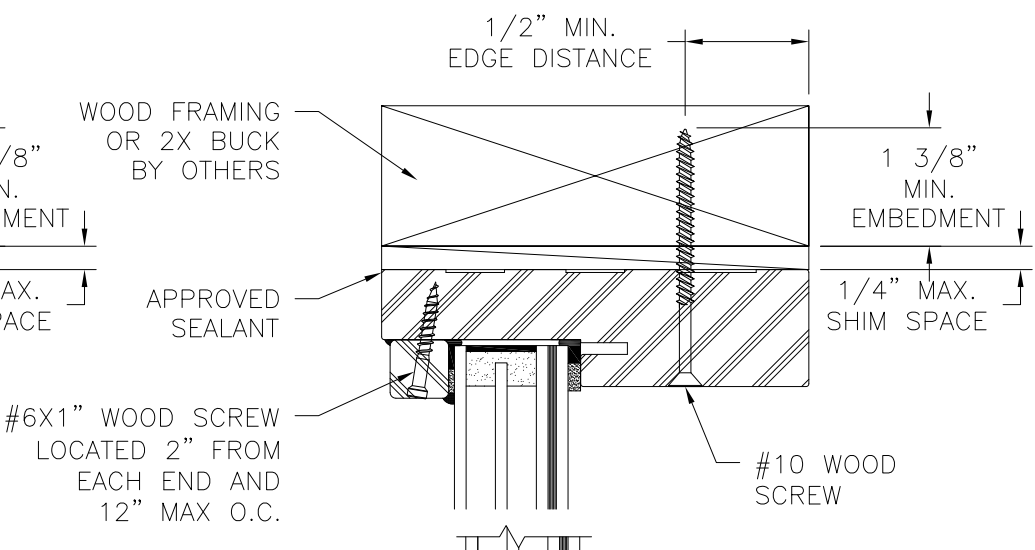
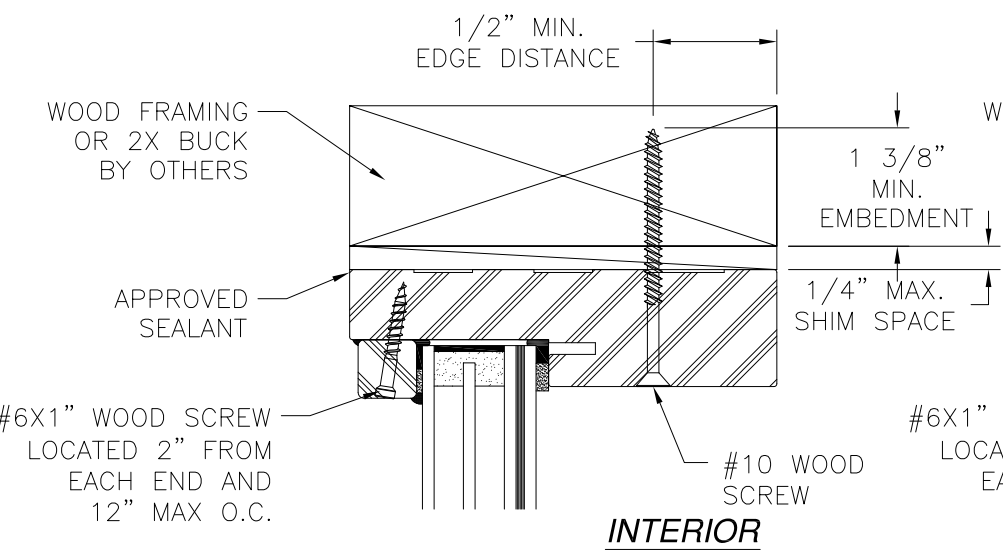
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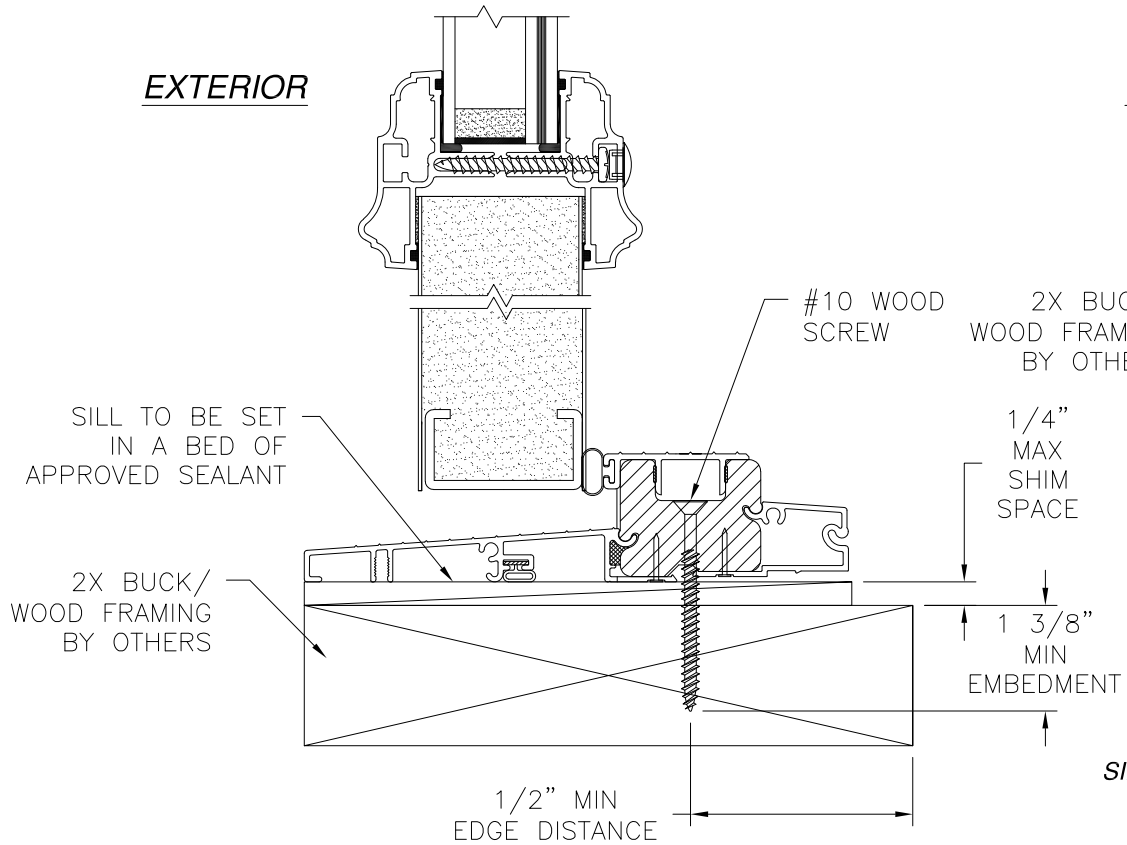
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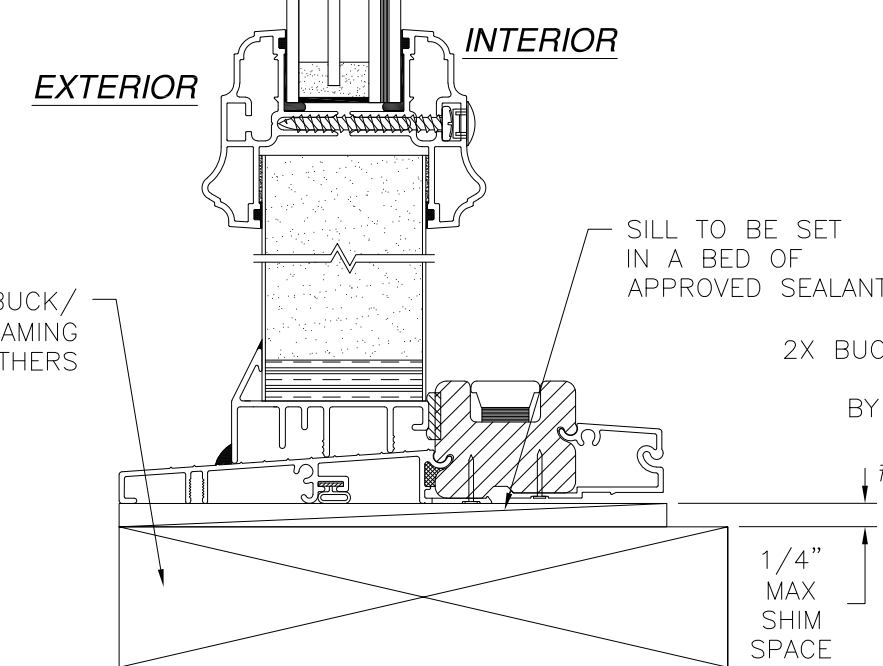
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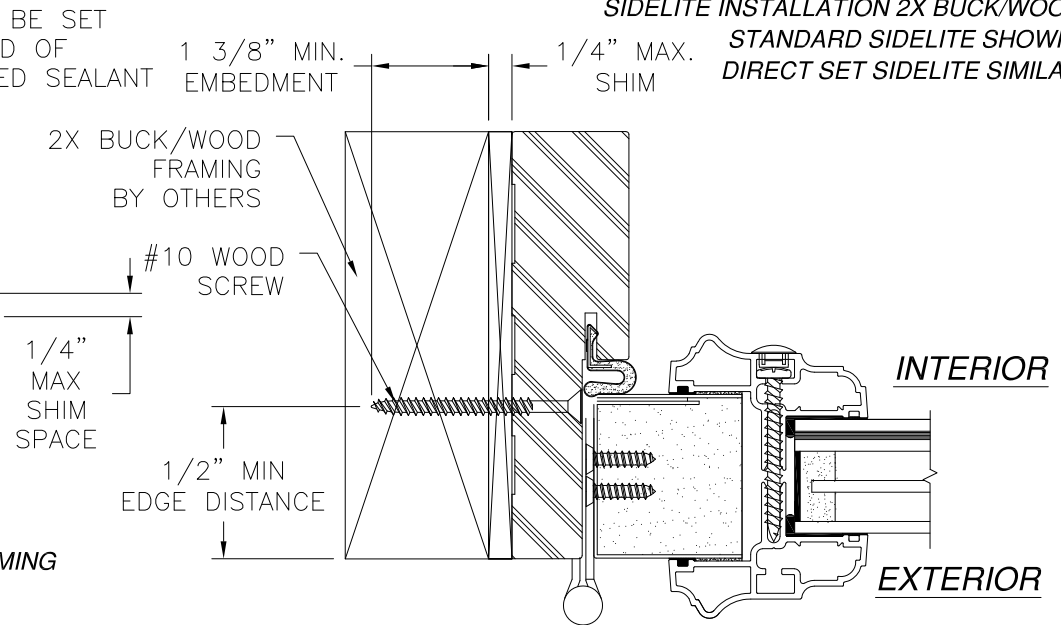
HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



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



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



HORIZONTAL CROSS SECTION
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING
SIGNED: 08/27/2024

- 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
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STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES
AND TRANSOM – IMPACT
INSTALLATION DETAILS

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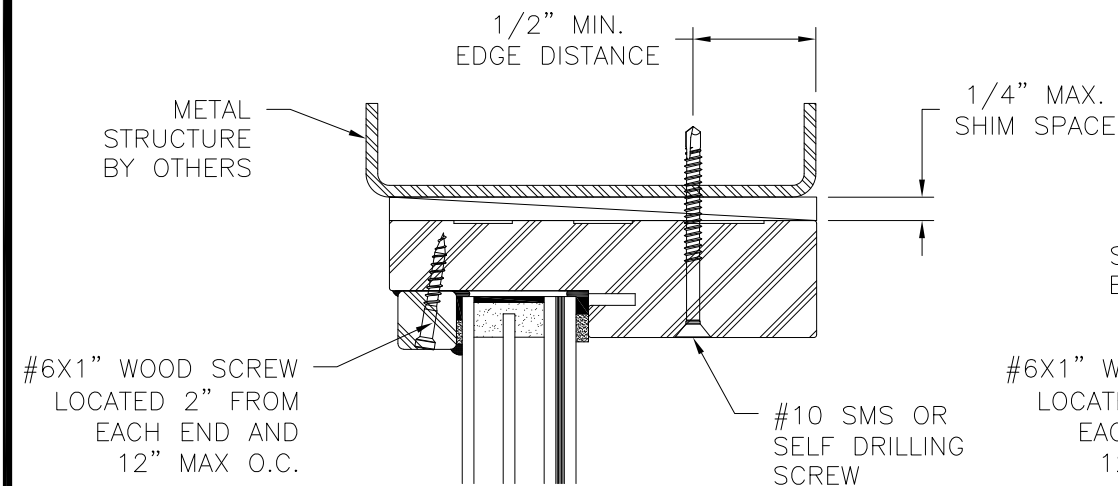
SCALE NTS DATE 04/22/13 SHEET 5 OF 16

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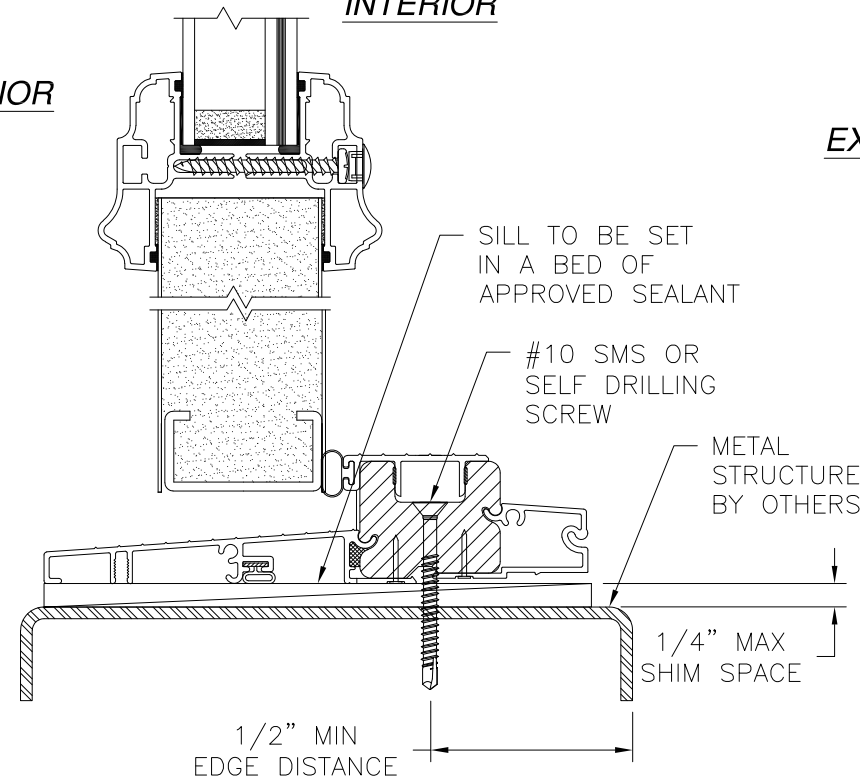
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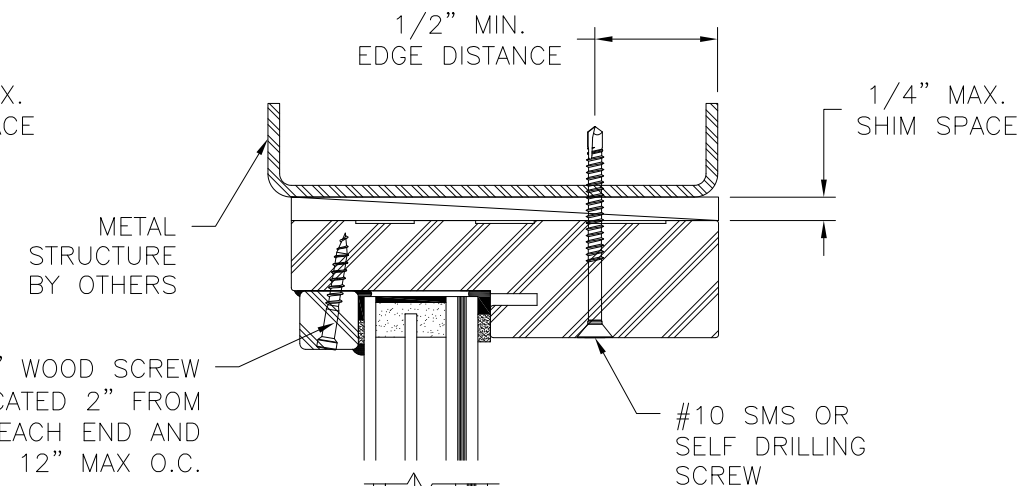
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EXTERIOR



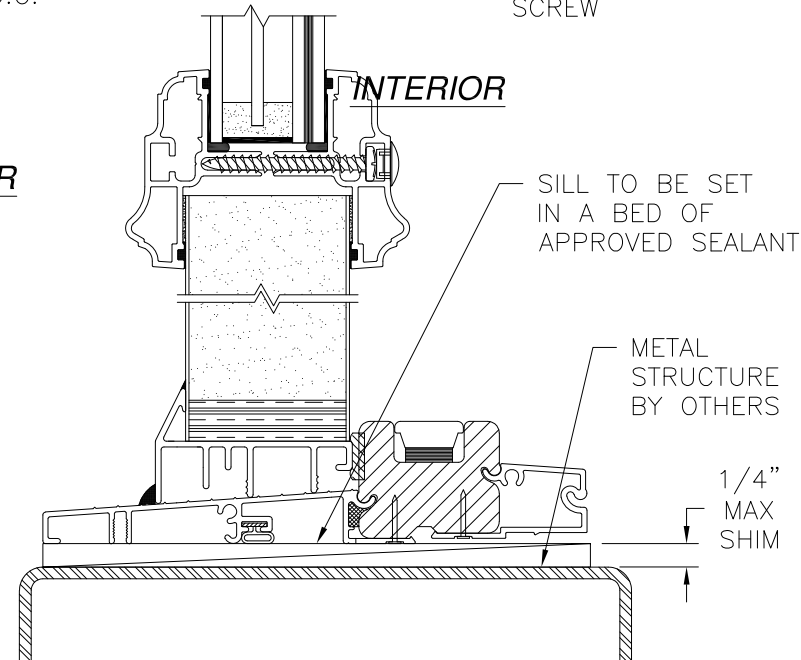
VERTICAL CROSS SECTION

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



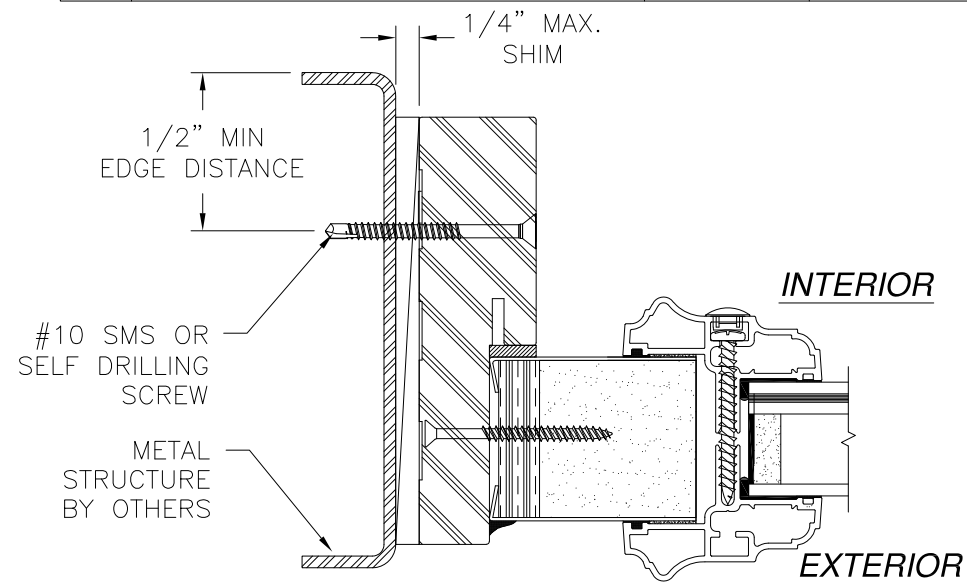
INTERIOR

EXTERIOR



VERTICAL CROSS SECTION

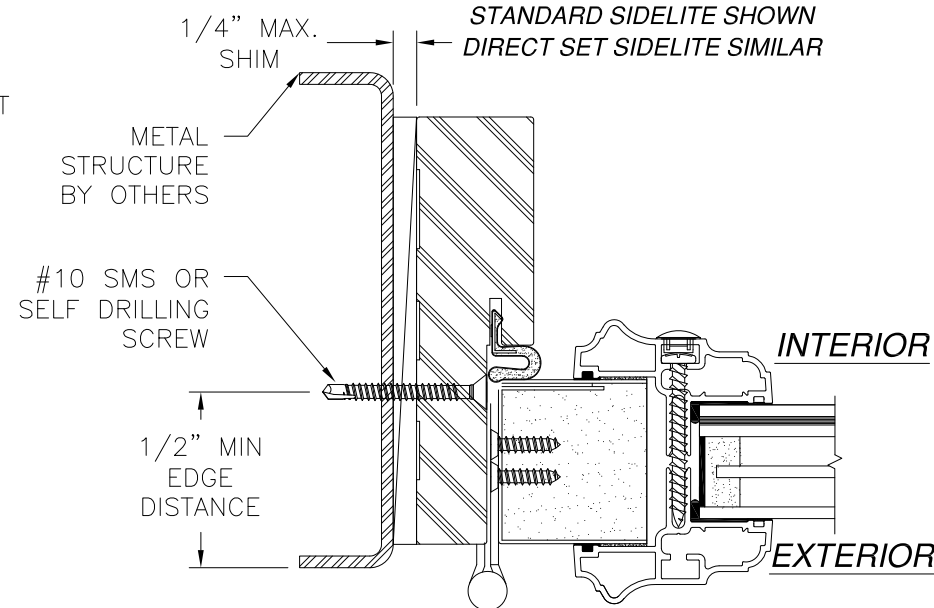
SIDELITE AND TRANSOM INSTALLATION METAL STRUCTURE
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



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
SIGNED: 08/27/2024

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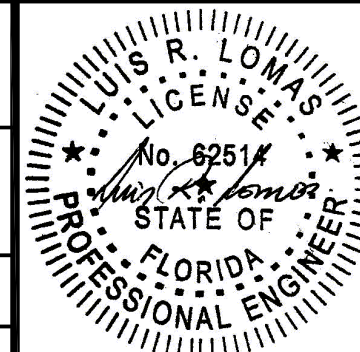
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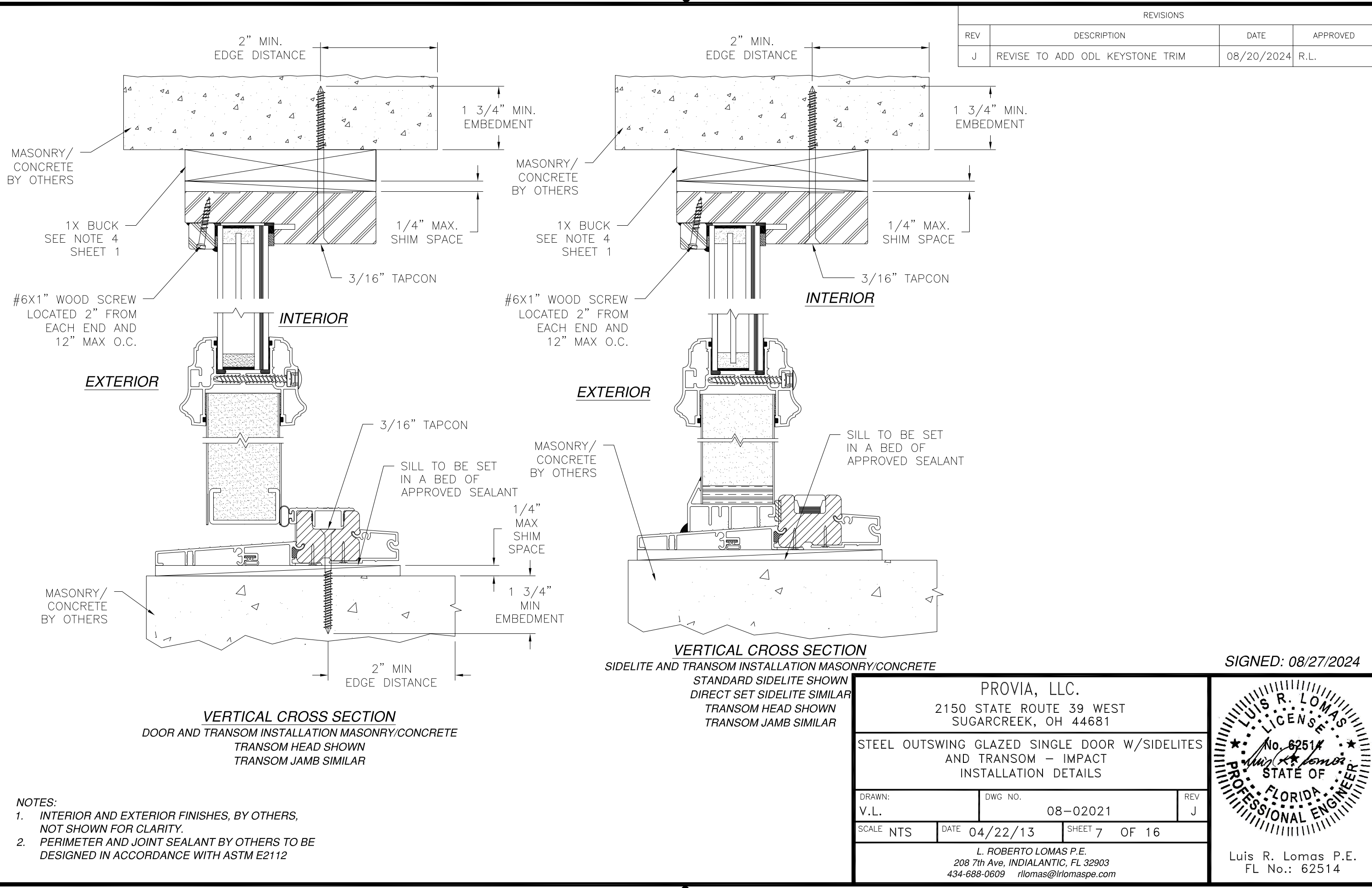
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES
AND TRANSOM – IMPACT
INSTALLATION DETAILS

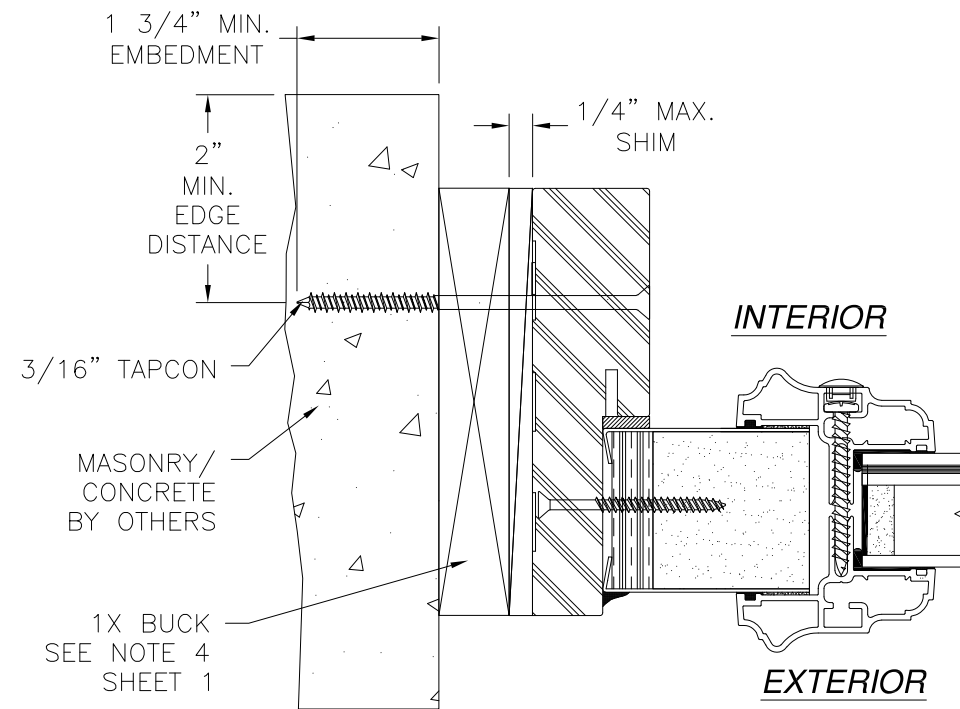
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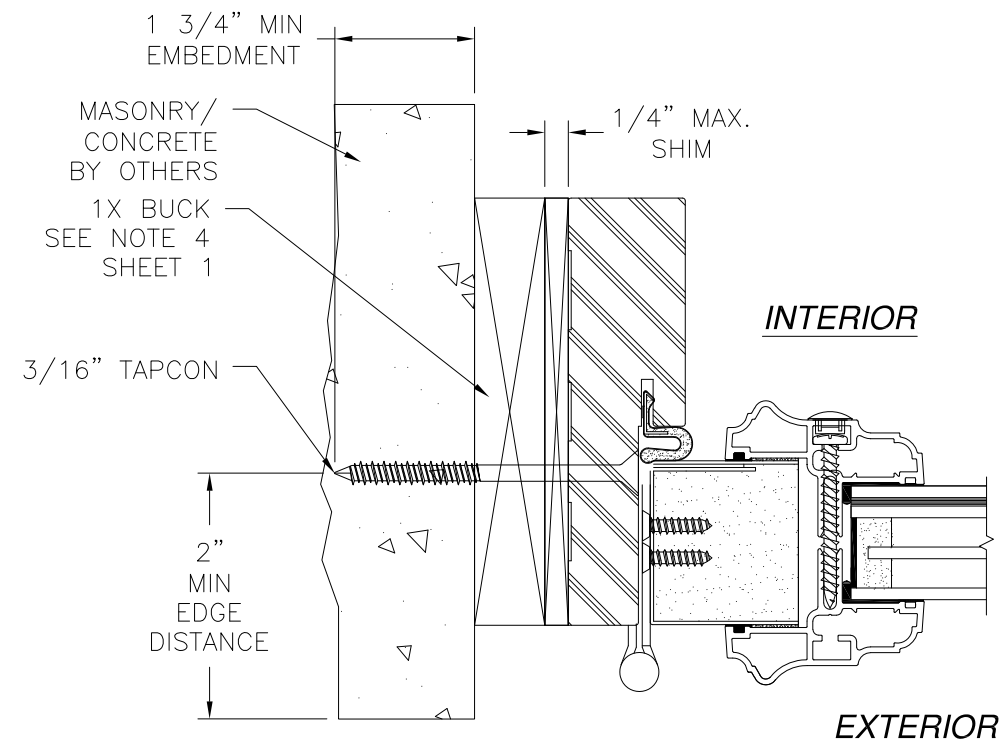


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HORIZONTAL CROSS SECTION
SIDELITE INSTALLATION CONCRETE/MASONRY
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR



HORIZONTAL CROSS SECTION
DOOR INSTALLATION CONCRETE/MASONRY

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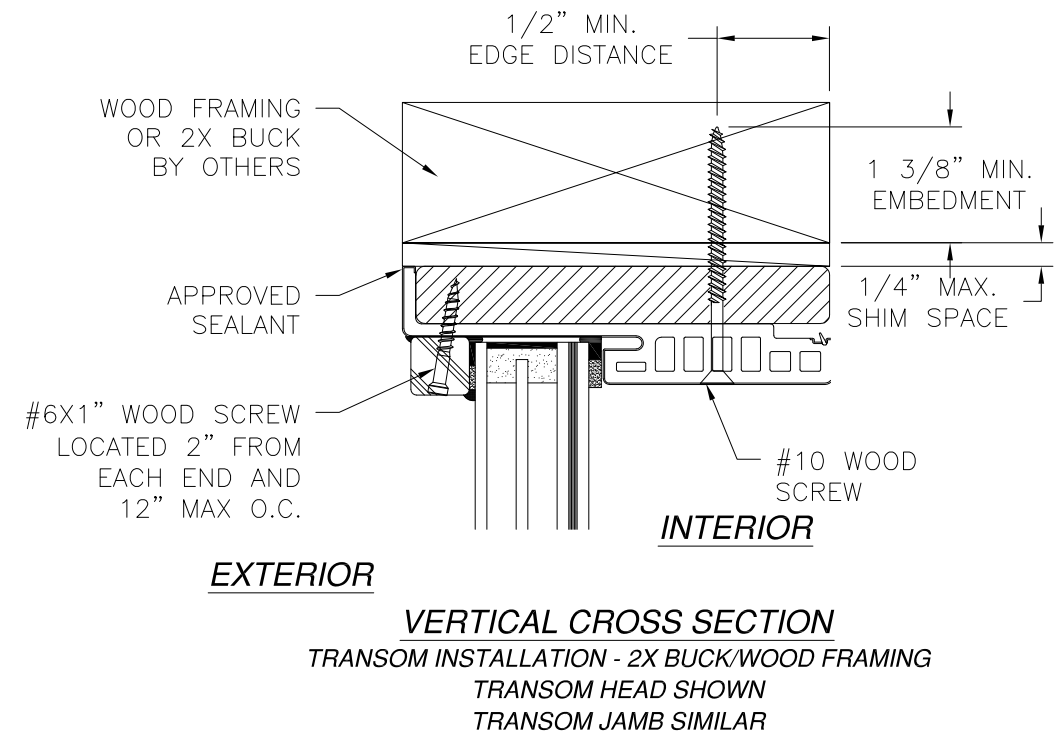
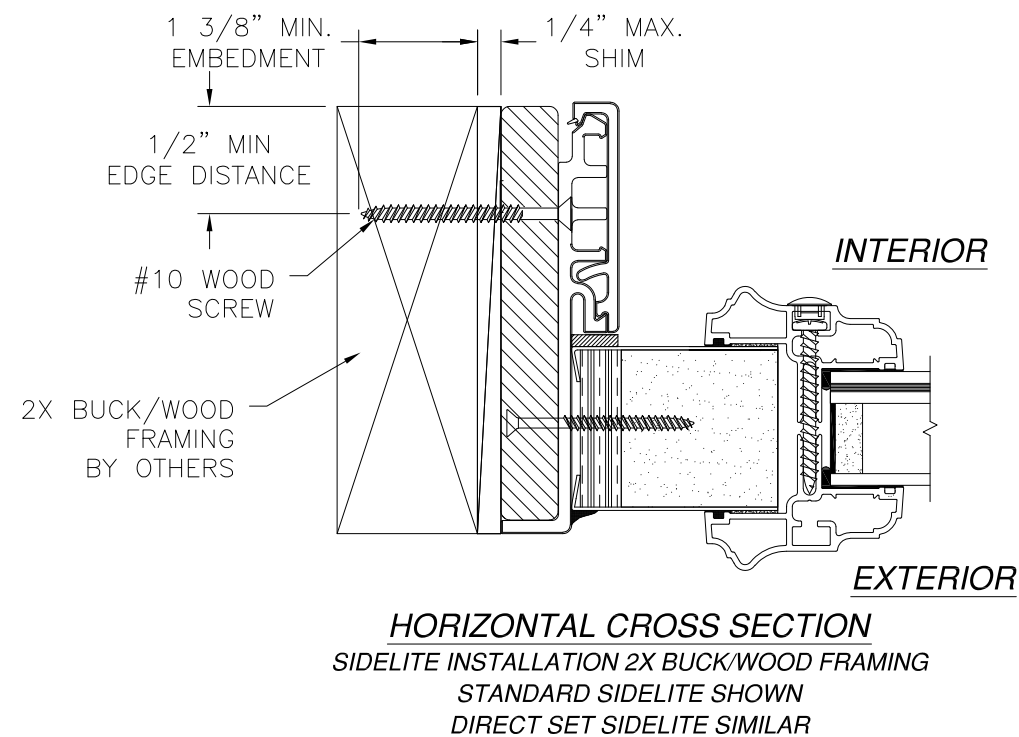
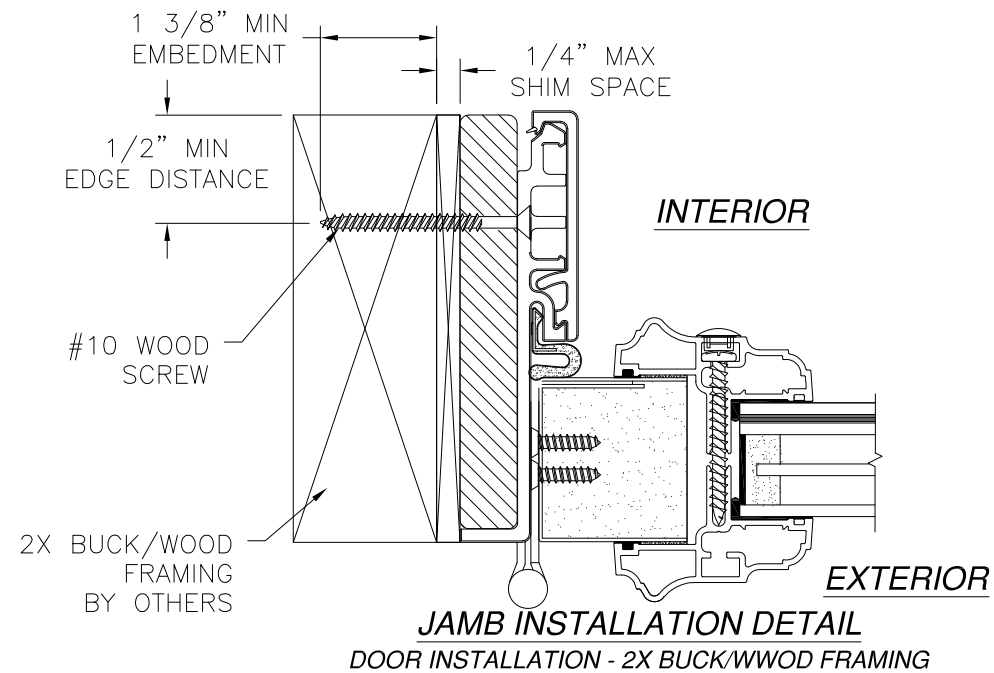
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STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES AND TRANSOM – IMPACT INSTALLATION DETAILS		
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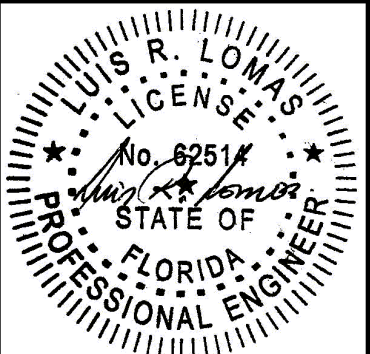
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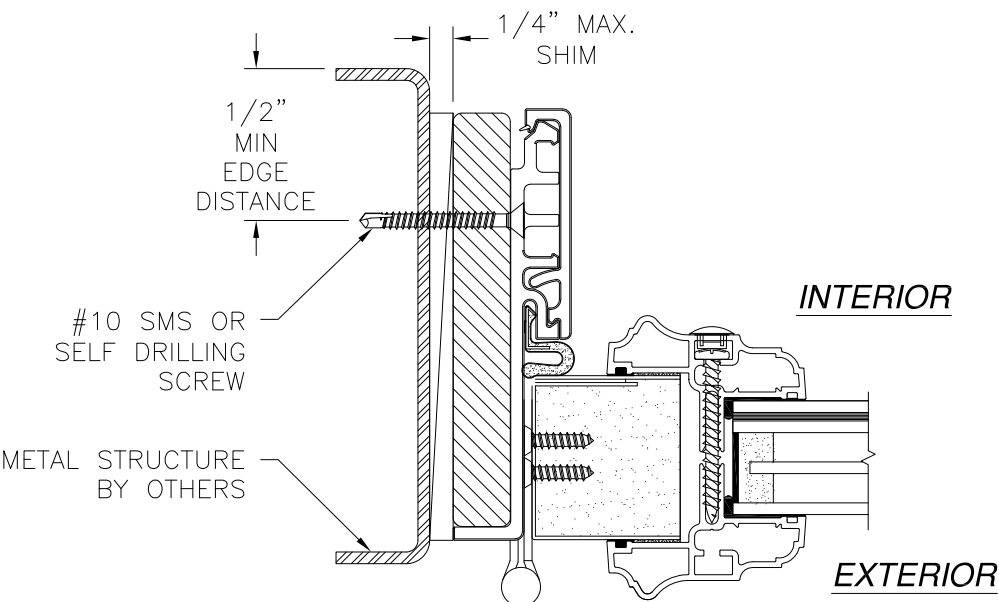
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES AND TRANSOM – IMPACT INSTALLATION DETAILS W/FUSION FRAME		
DRAWN: V.L.	DWG NO. 08-02021	REV J
SCALE NTS	DATE 04/22/13	SHEET 9 OF 16
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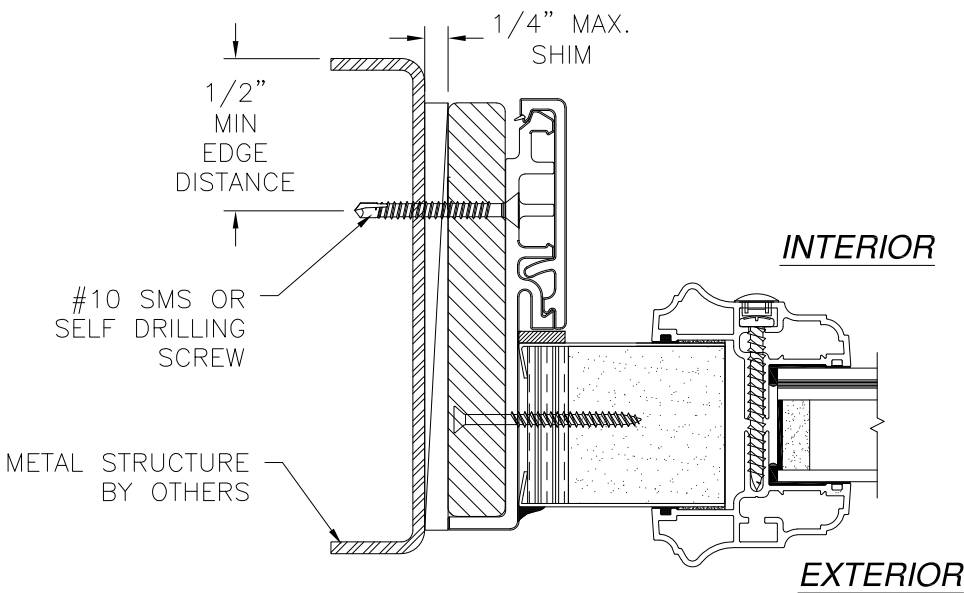


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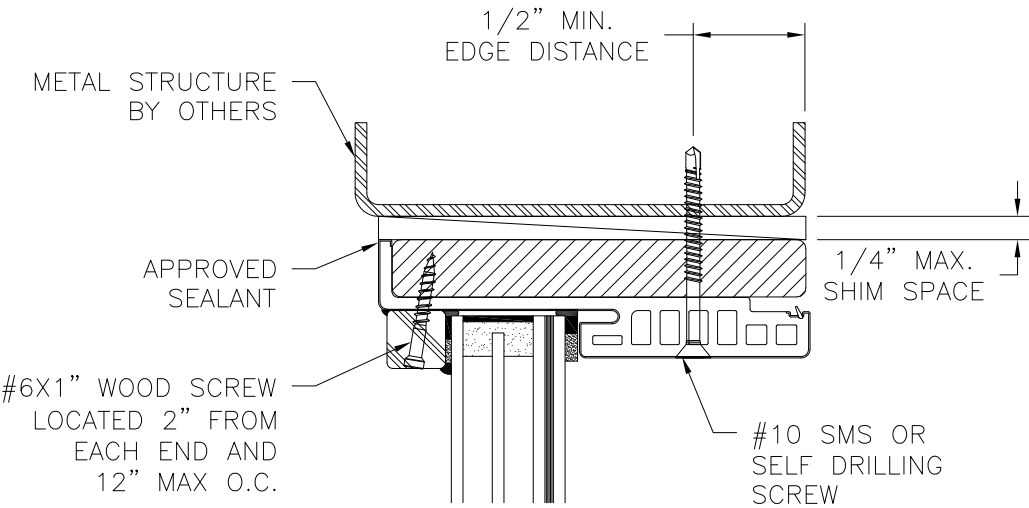


JAMB INSTALLATION DETAIL
DOOR INSTALLATION - METAL STRUCTURE



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

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

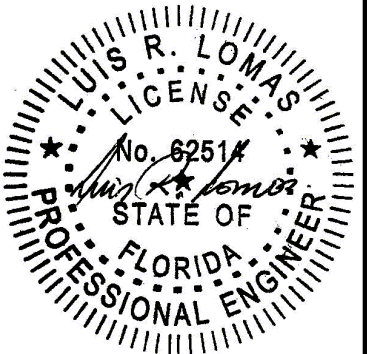
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STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES
AND TRANSOM – IMPACT
INSTALLATION DETAILS W/FUSION FRAME

DRAWN: V.L.	DWG NO. 08-02021	REV J
SCALE NTS	DATE 04/22/13	SHEET 10 OF 16

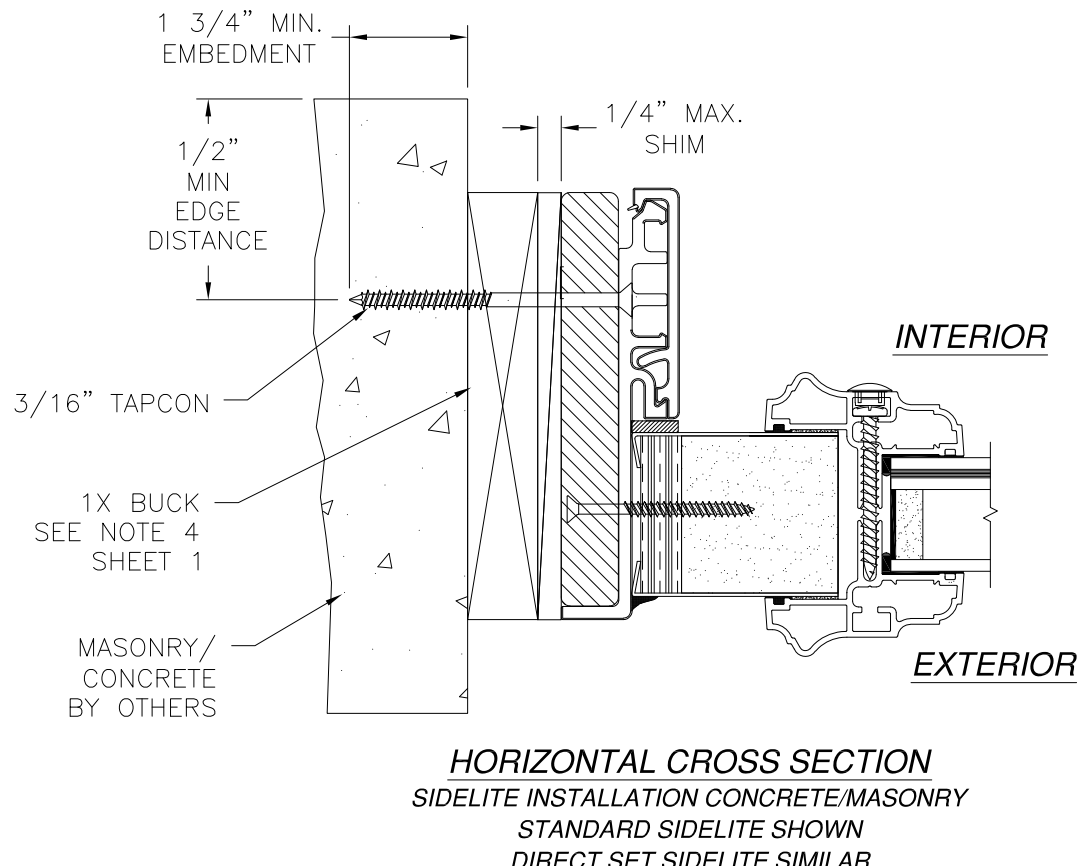
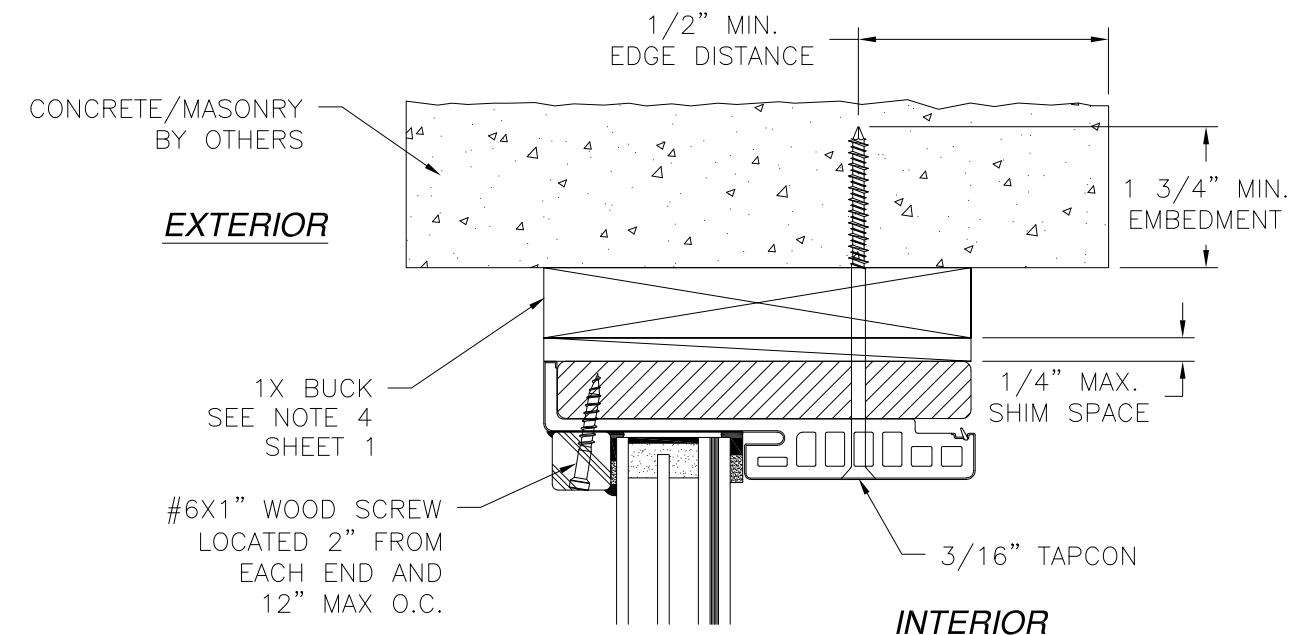
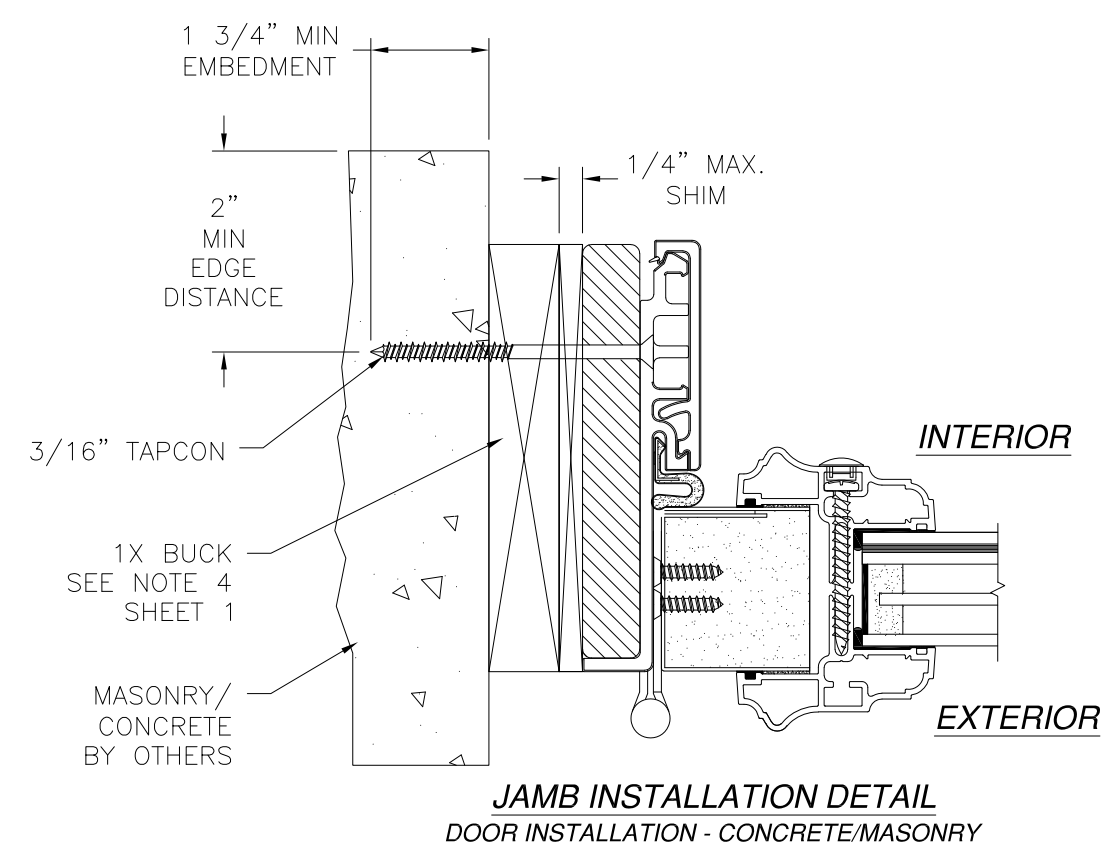
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/27/2024



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



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

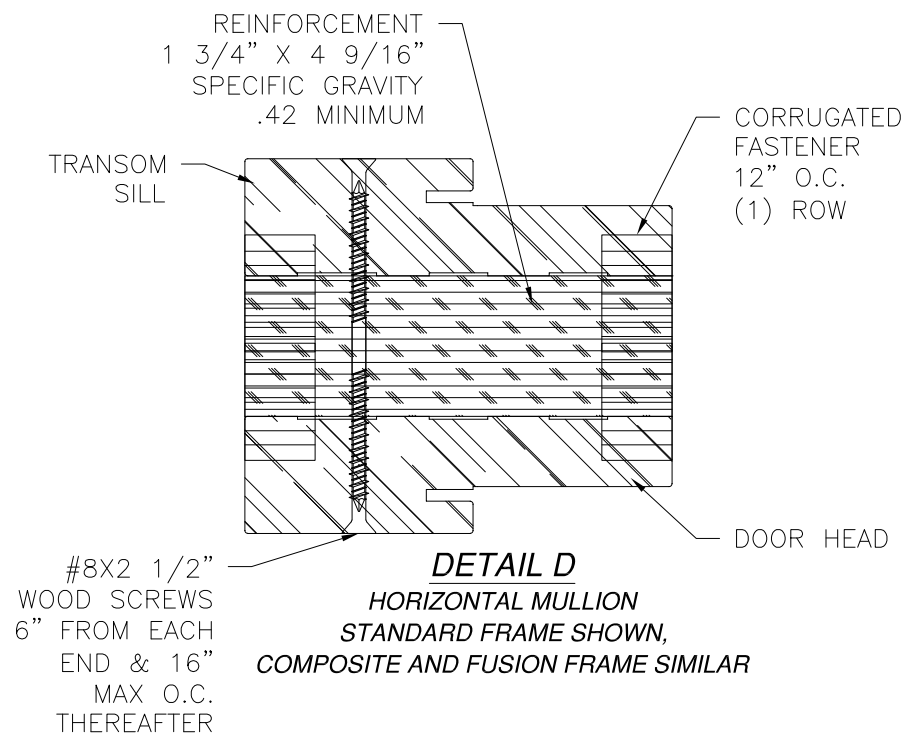
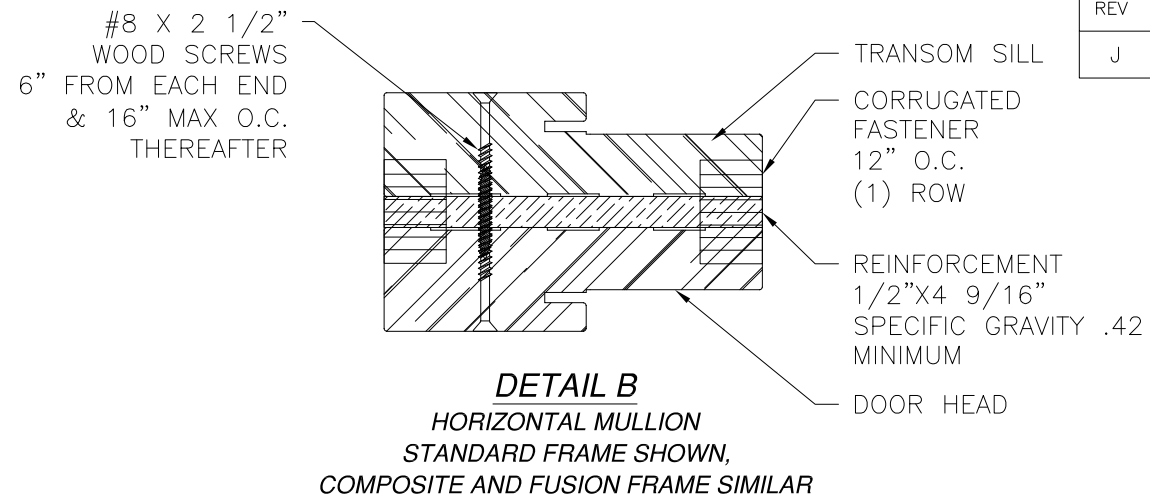
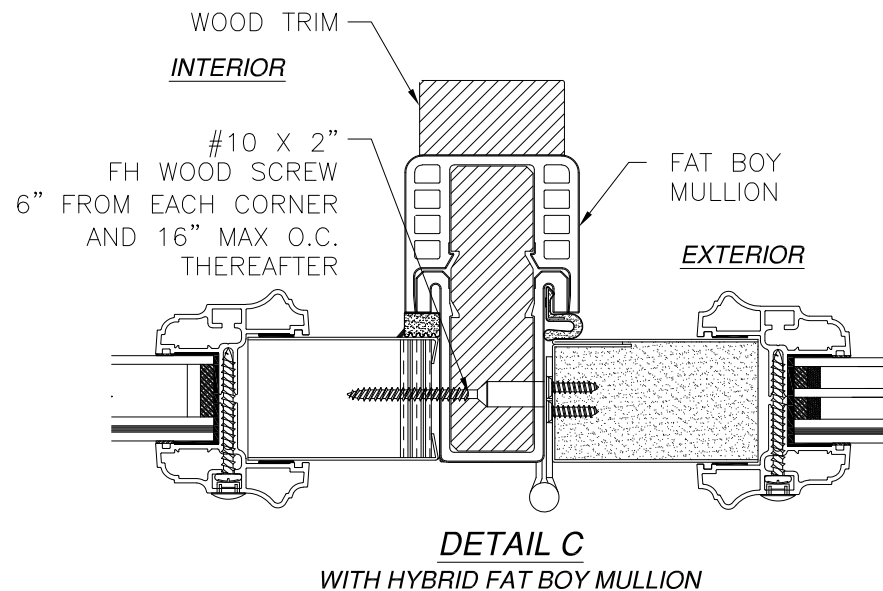
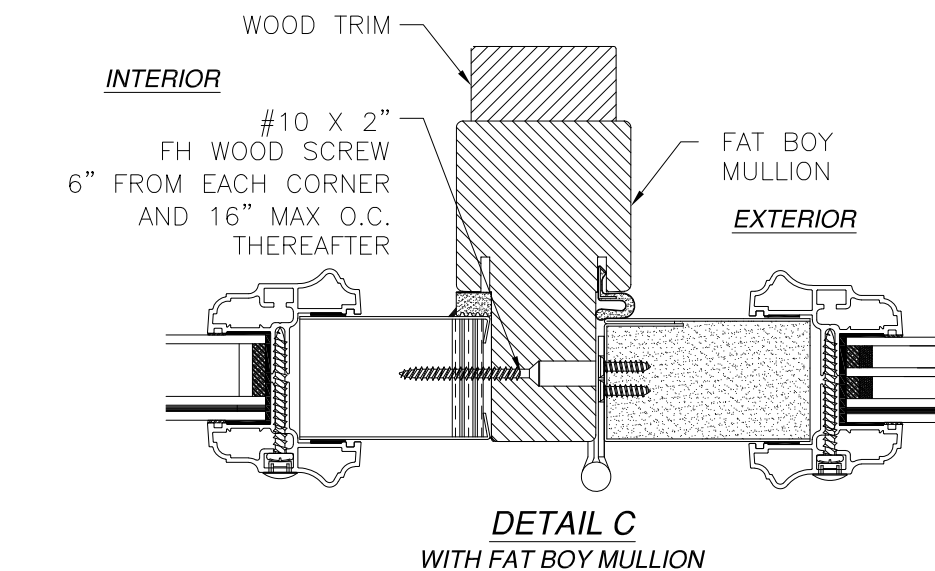
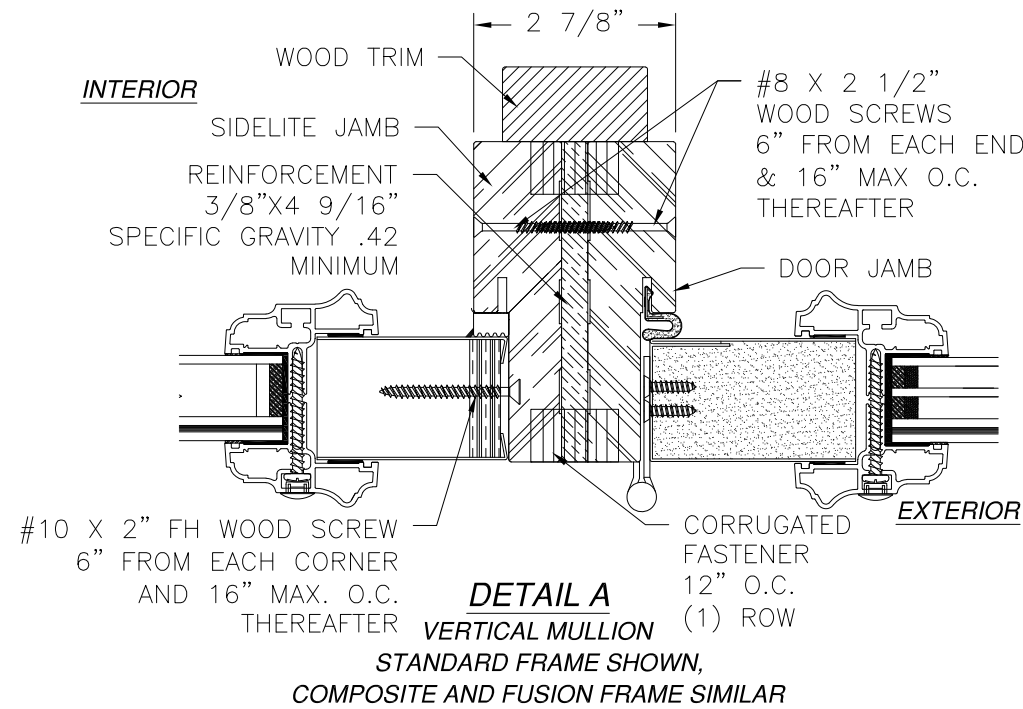
VERTICAL CROSS SECTION
TRANSOM INSTALLATION - CONCRETE/MASONRY
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR

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

SIGNED: 08/27/2024

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES AND TRANSOM - IMPACT INSTALLATION DETAILS W/FUSION FRAME		
DRAWN: V.L.	DWG NO. 08-02021	REV J
SCALE NTS	DATE 04/22/13	SHEET 11 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

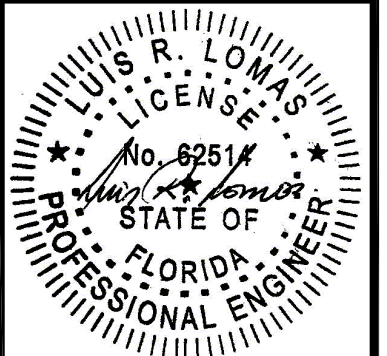
Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.

SIGNED: 08/27/2024

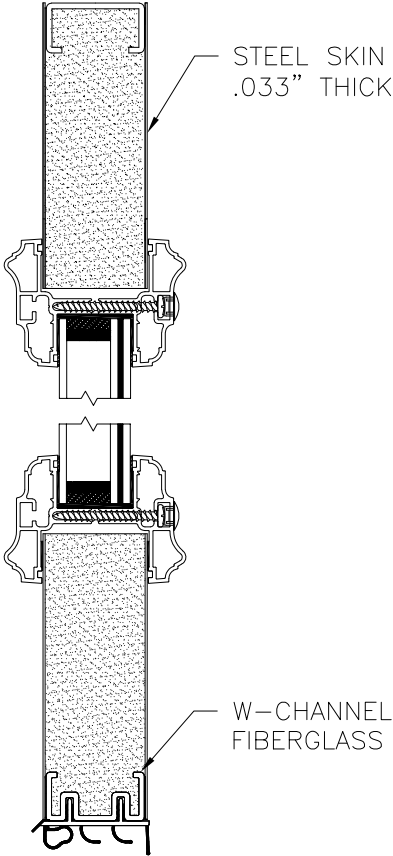
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES AND TRANSOM – IMPACT MULLION DETAILS		
DRAWN: V.L.	DWG NO. 08-02021	REV J
SCALE NTS	DATE 04/22/13	SHEET 13 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



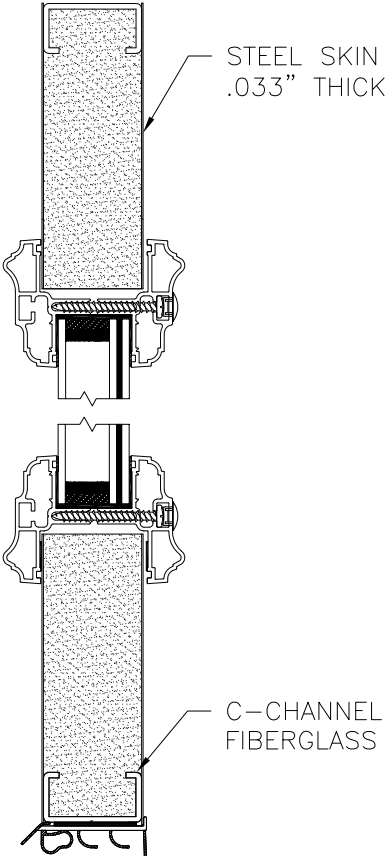
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SLABS AND TRIMS

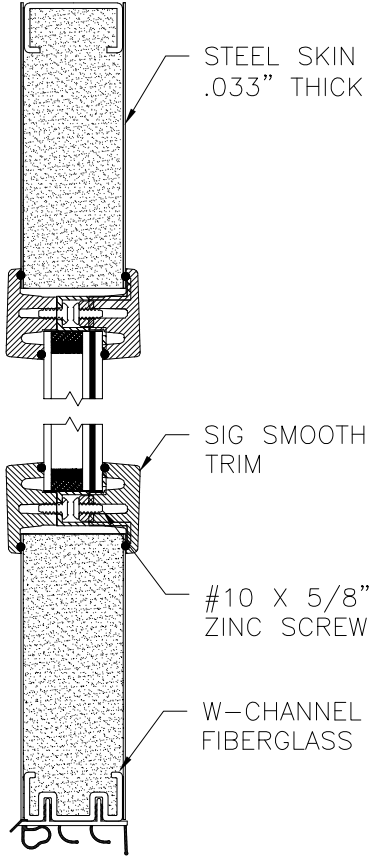
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



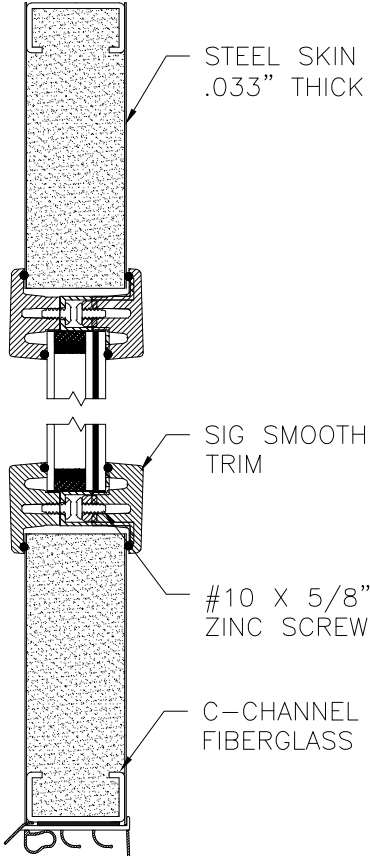
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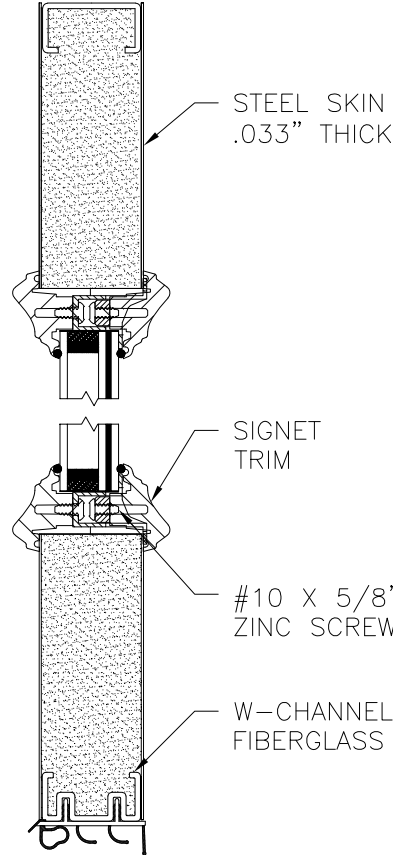
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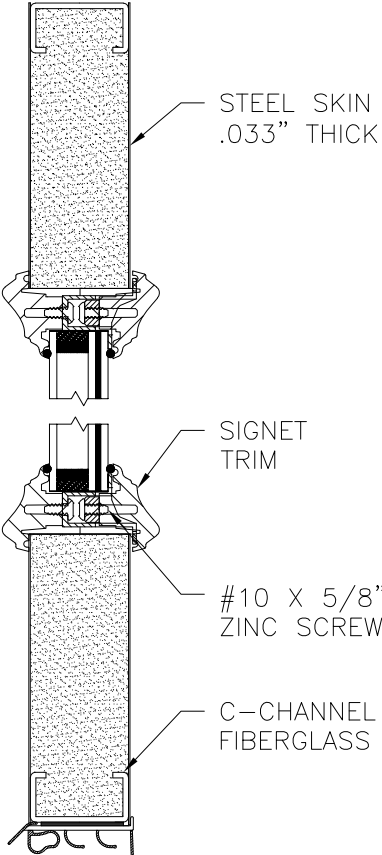
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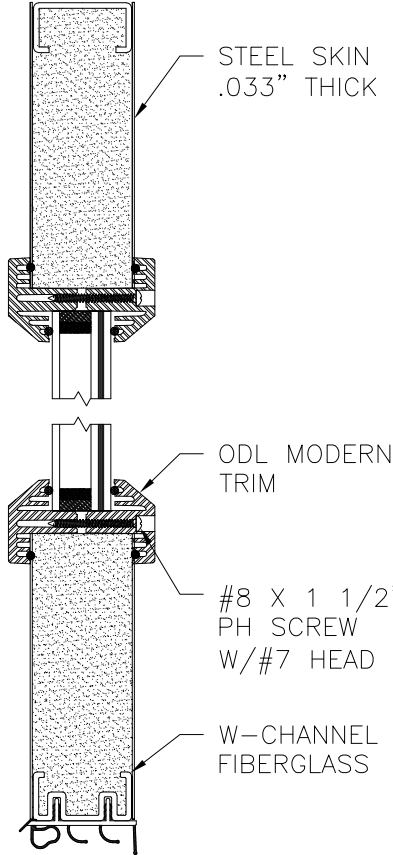
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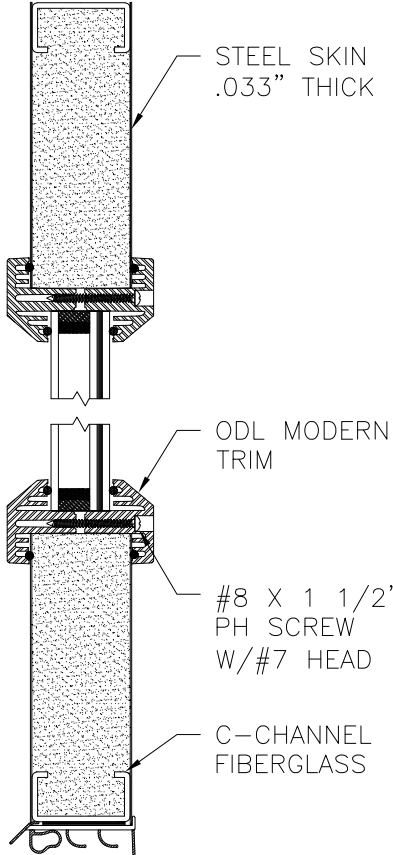
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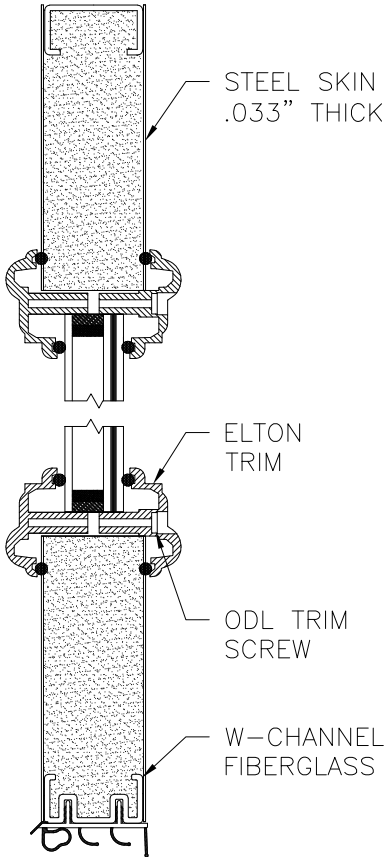
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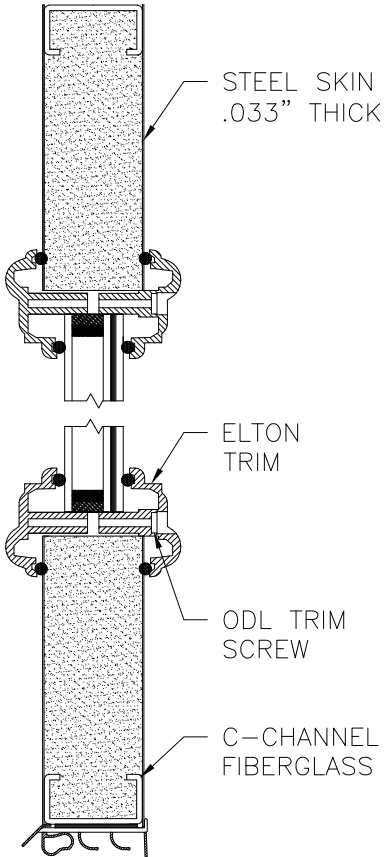
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PANEL OPTION 8



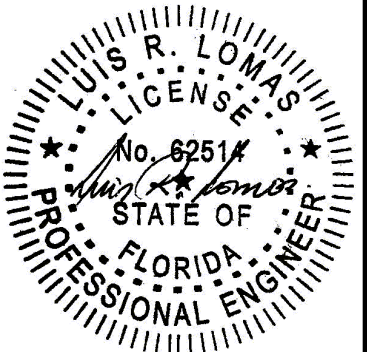
PANEL OPTION 9



PANEL OPTION 10

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES AND TRANSOM – IMPACT APPROVED SLABS		
DRAWN: V.L.	DWG NO. 08-02021	REV J
SCALE NTS	DATE 04/22/13	SHEET 14 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

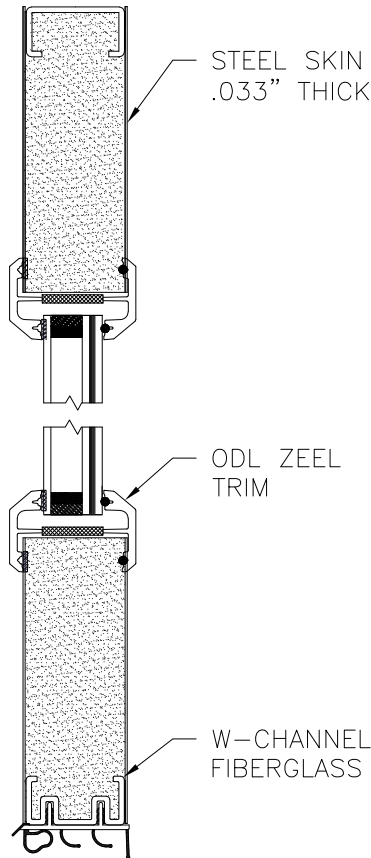
SIGNED: 08/27/2024



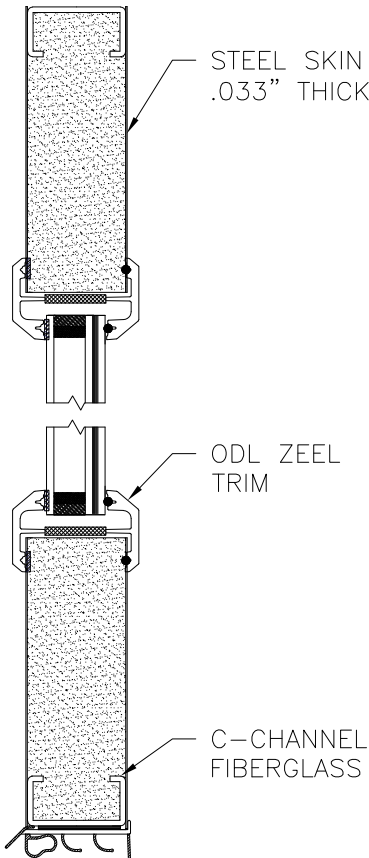
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SLABS AND TRIMS

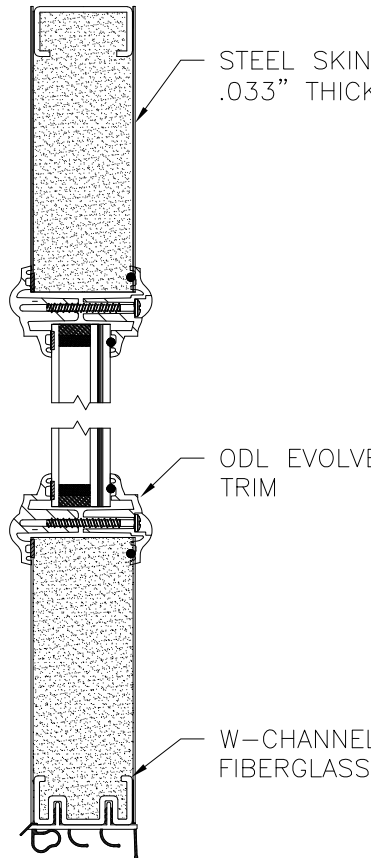
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



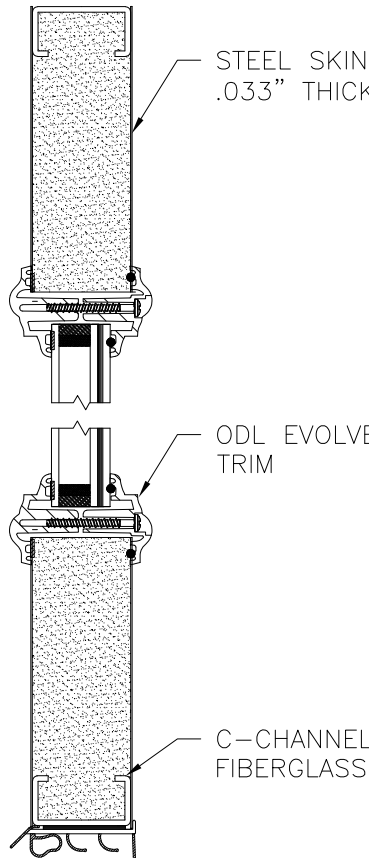
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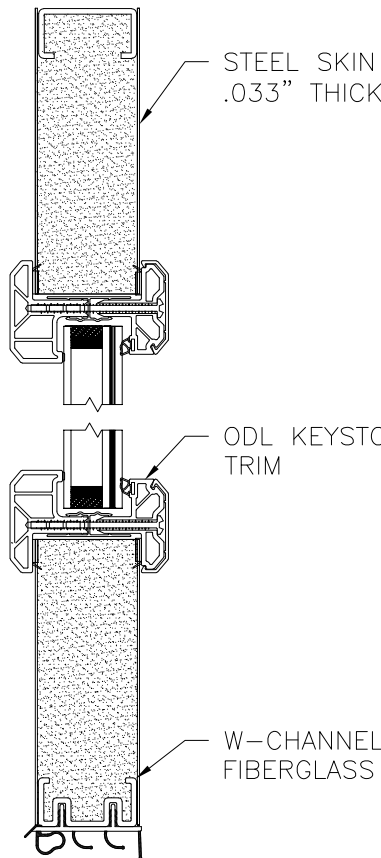
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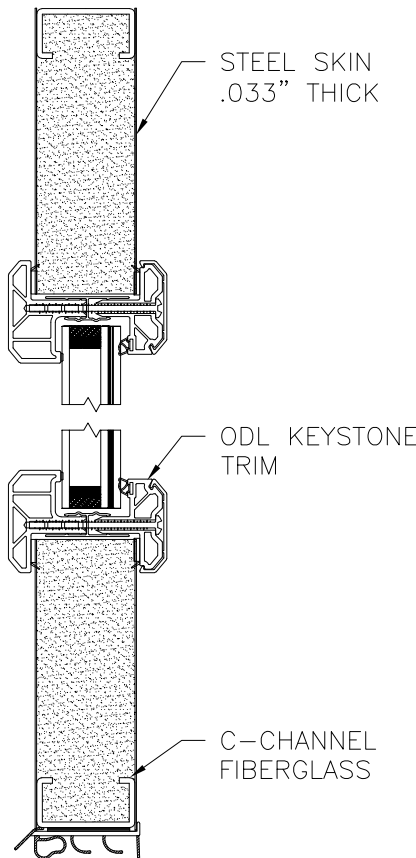
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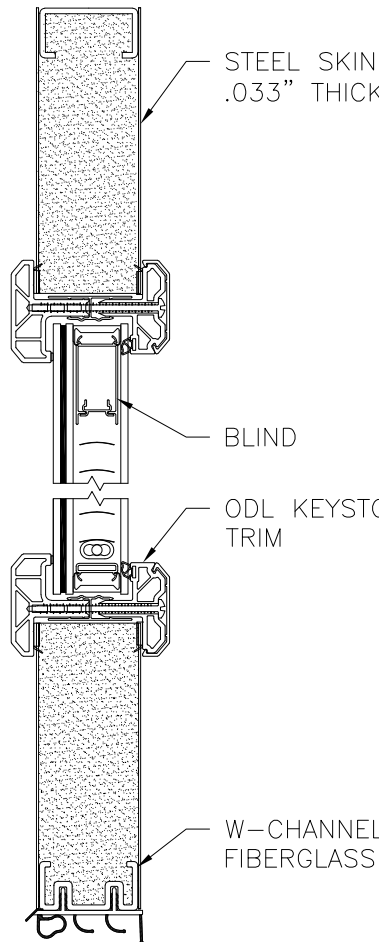
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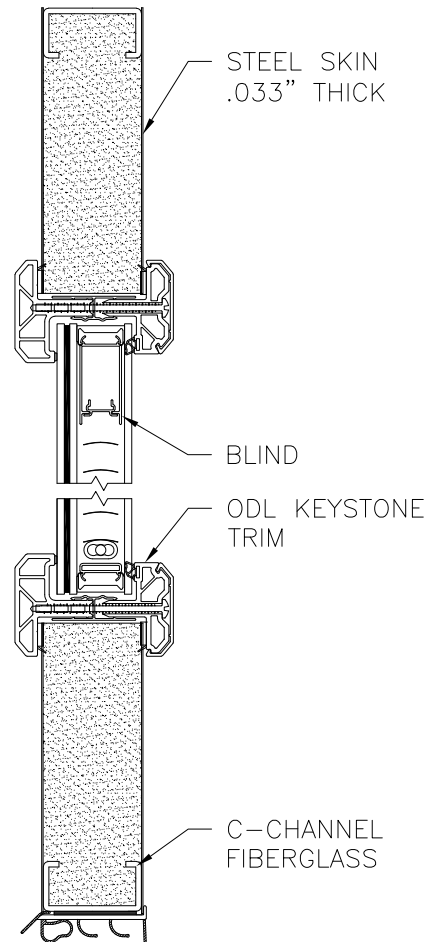
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PANEL OPTION 18



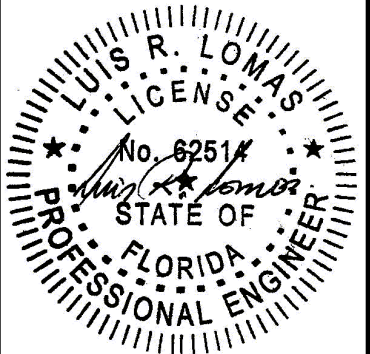
PANEL OPTION 15



PANEL OPTION 16

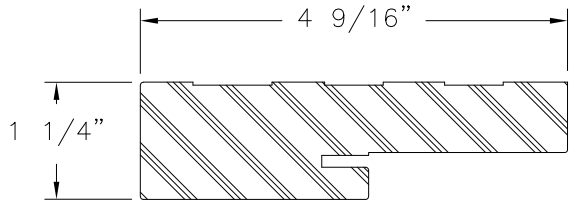
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES AND TRANSOM - IMPACT APPROVED SLABS		
DRAWN: V.L.	DWG NO. 08-02021	REV J
SCALE NTS	DATE 04/22/13	SHEET 15 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/27/2024

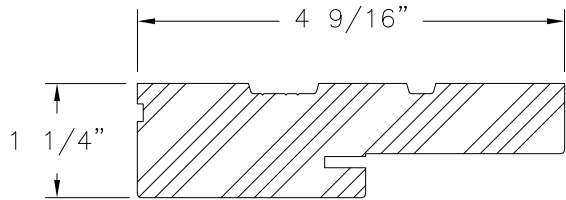


Luis R. Lomas P.E.
FL No.: 62514

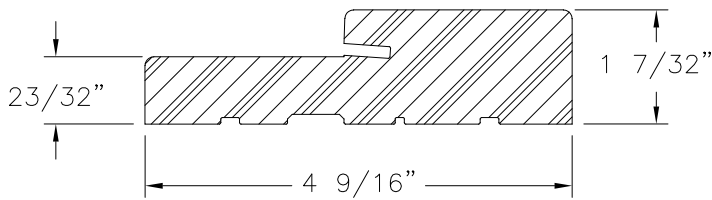
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
J	REVISE TO ADD ODL KEYSTONE TRIM	08/20/2024	R.L.



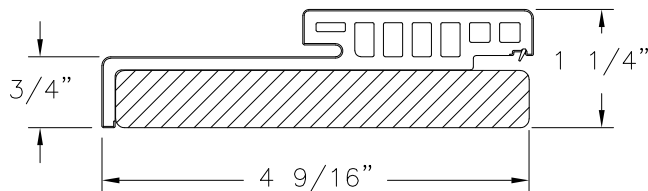
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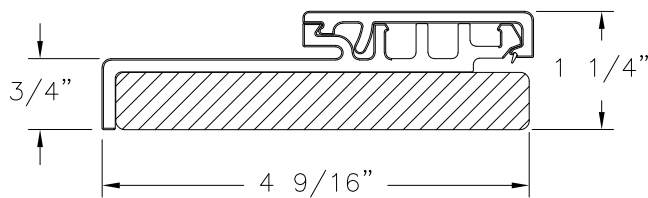
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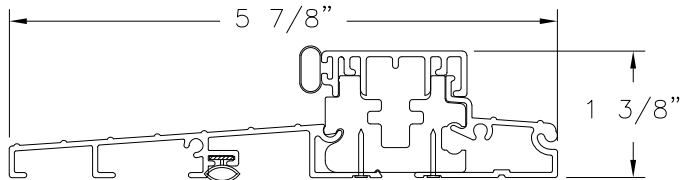
FRAMESAVER
COMPOSITE



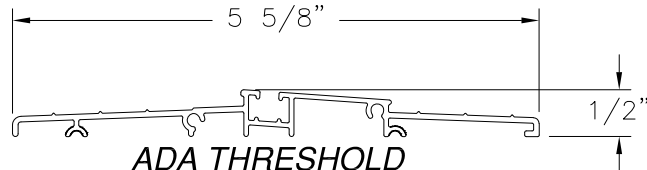
HYBRID HEAD
WOOD/COMPOSITE



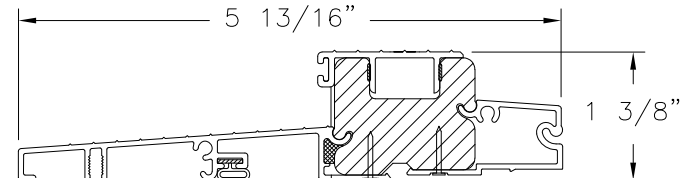
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WOOD/COMPOSITE



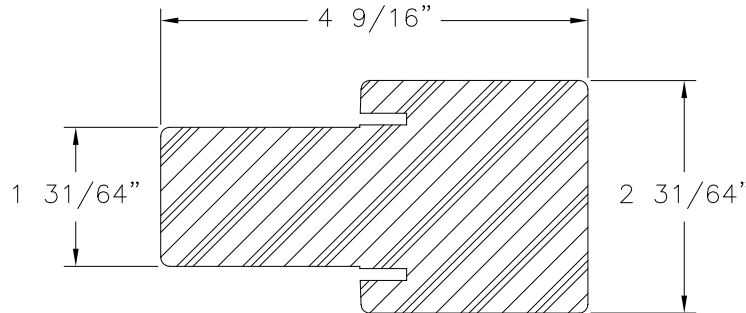
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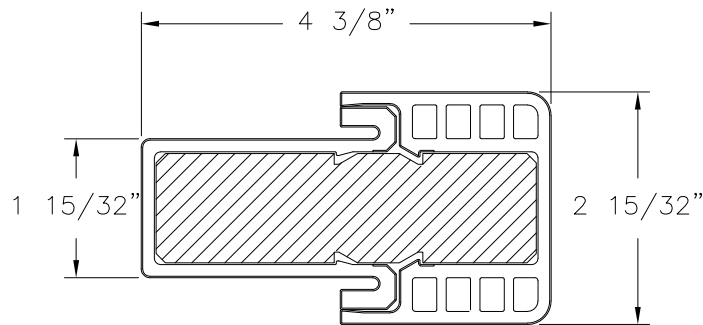
ADA THRESHOLD



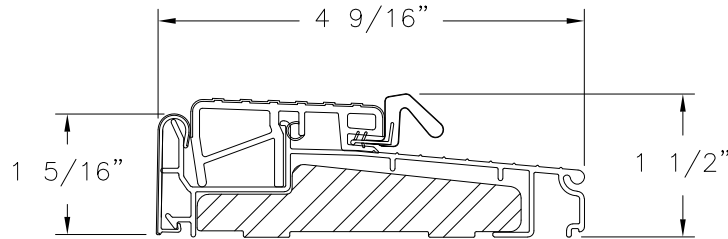
SAHARA OUTSWING THRESHOLD



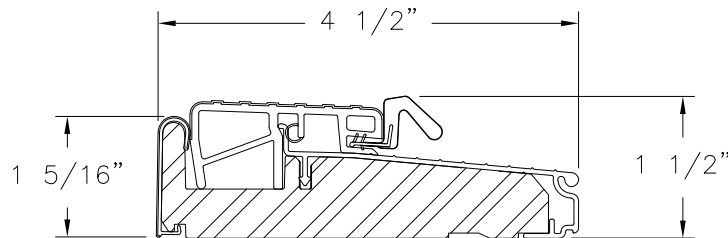
FAT BOY MULLION
COMPOSITE



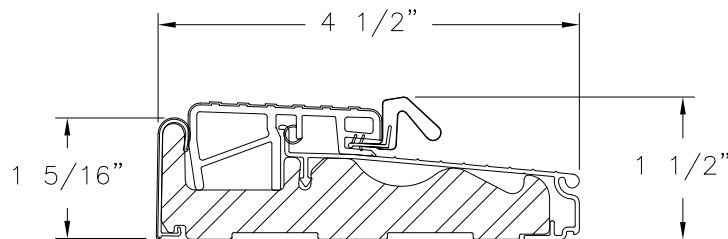
HYBRID FAT BOY MULLION
COMPOSITE



OUTSWING SILL ZOBL4565



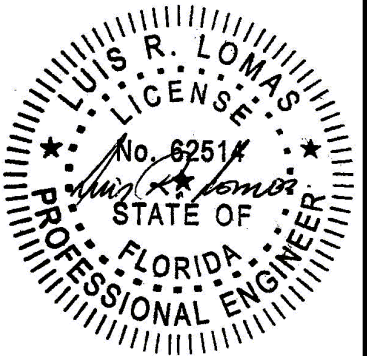
OUTSWING SILL ZOB4565F



OUTSWING SILL ZOBLH4565

SIGNED: 08/27/2024

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED SINGLE DOOR W/SIDELITES AND TRANSOM – IMPACT COMPONENTS		
DRAWN: V.L.	DWG NO. 08-02021	REV J
SCALE NTS	DATE 04/22/13	SHEET 16 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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