

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/10/26	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)
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 – 17	MULLION DETAILS, APPROVED SLABS AND COMPONENTS

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

STEEL INSWING GLAZED DOUBLE DOOR
W/SIDELITE & TRANSOM – IMPACT
NOTES

DRAWN:
J.L.

DWG NO.
08-01968

REV
K

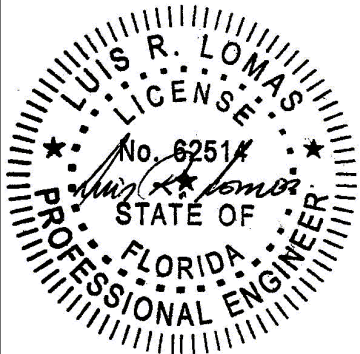
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DATE 04/23/13

SHEET 1 OF 17

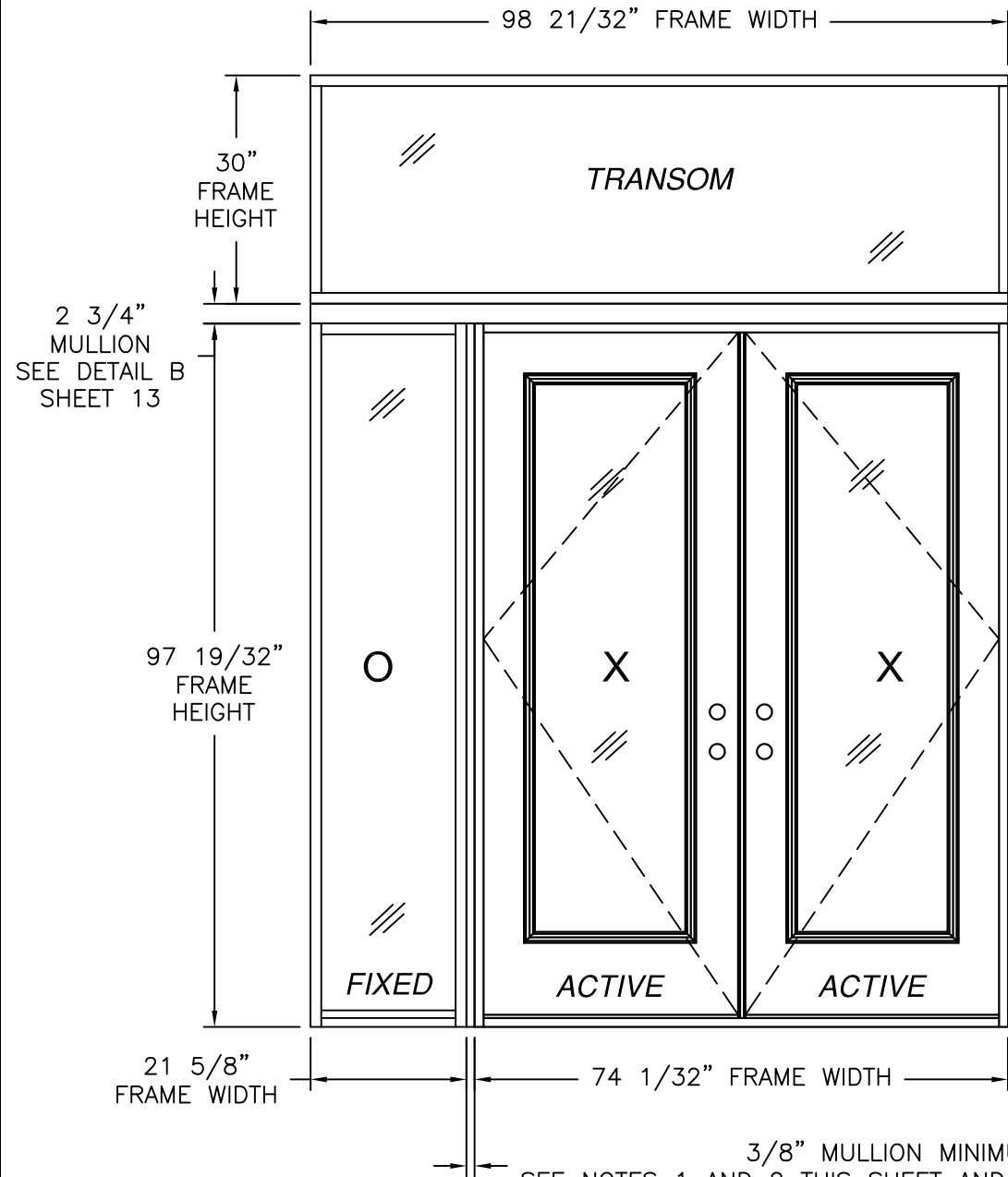
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
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SIGNED: 09/10/2026

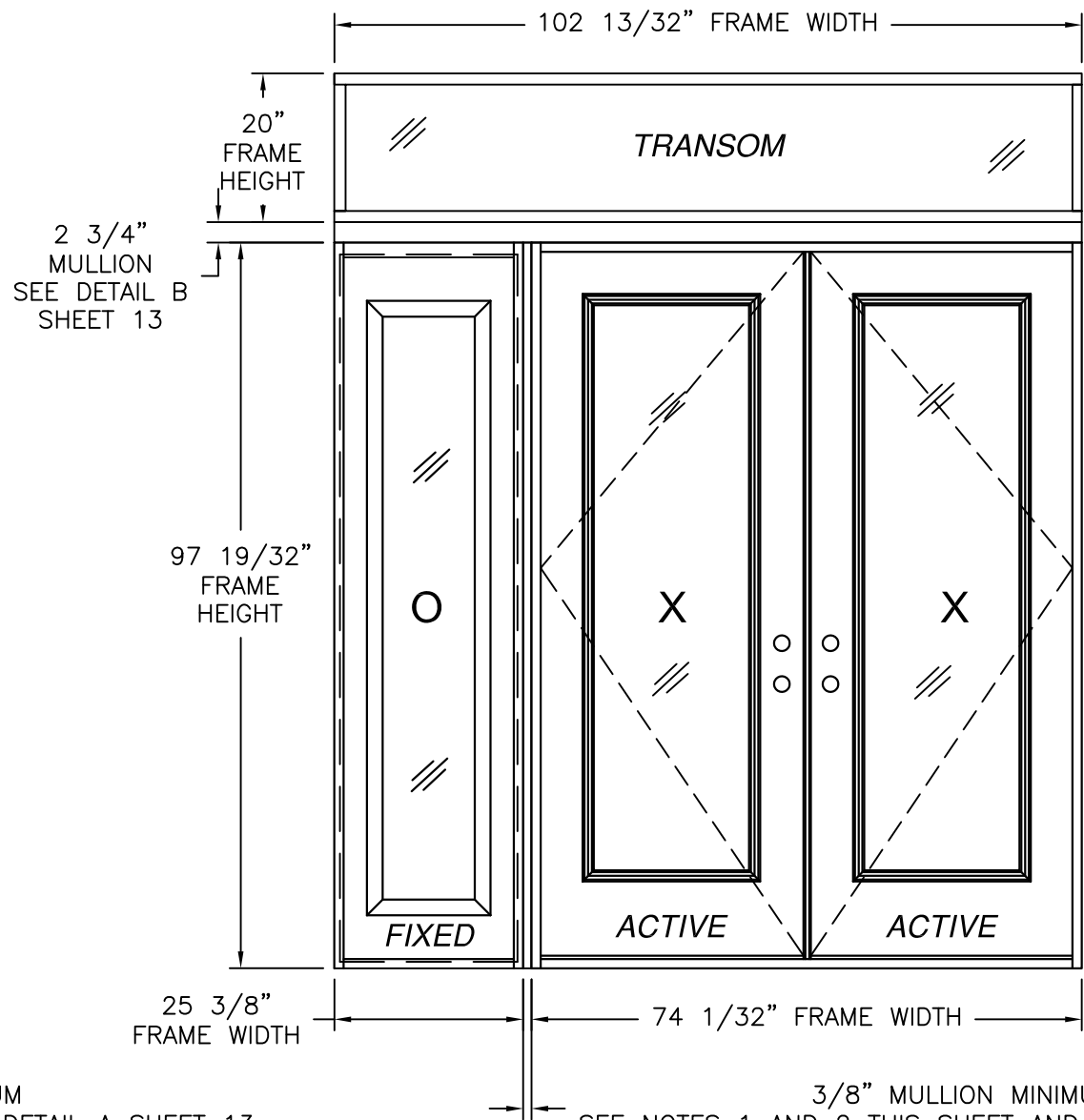


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FL No.: 62514

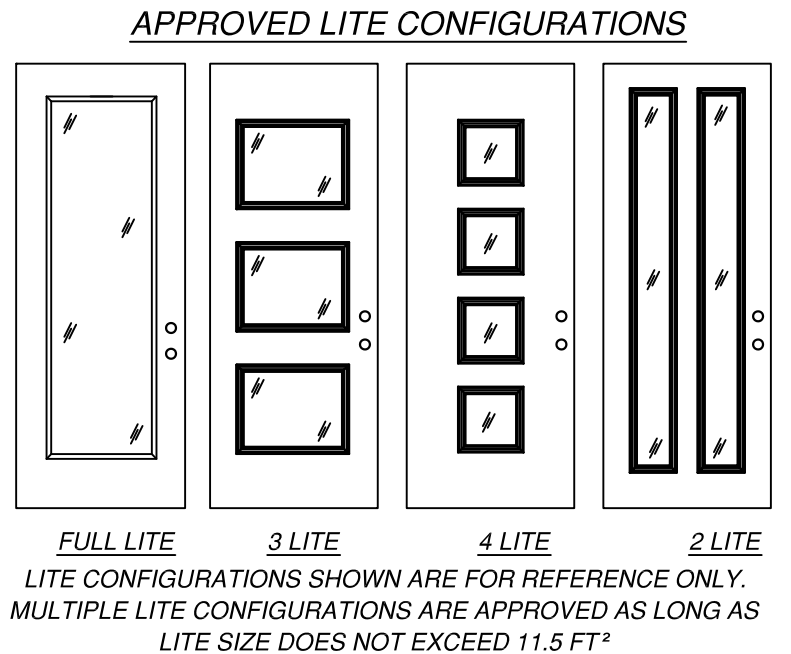
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DOUBLE DOOR W/ DIRECT SET SIDELITE AND TRANSOM
EXTERIOR VIEW
OXX SHOWN XXO ALSO APPROVED



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

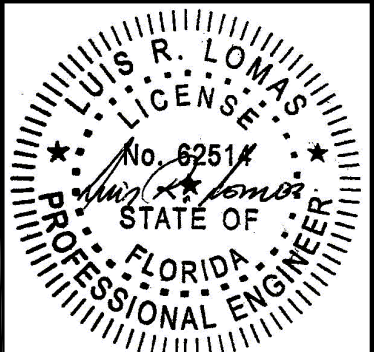


- NOTES:
1. MAXIMUM ALLOWED BUILD UP TO BE 3" AT VERTICAL MULLION.
 2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED.
 3. DOOR PANEL SIZE: 35 3/4" X 94 15/16"
 4. SIDELITE PANEL SIZE: 23 7/8" X 95 1/8"
 5. DOOR PANEL D.L.O.: 20 3/8" X 78 1/2"
 6. SIDELITE PANEL D.L.O.: 12 3/8" X 78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

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	

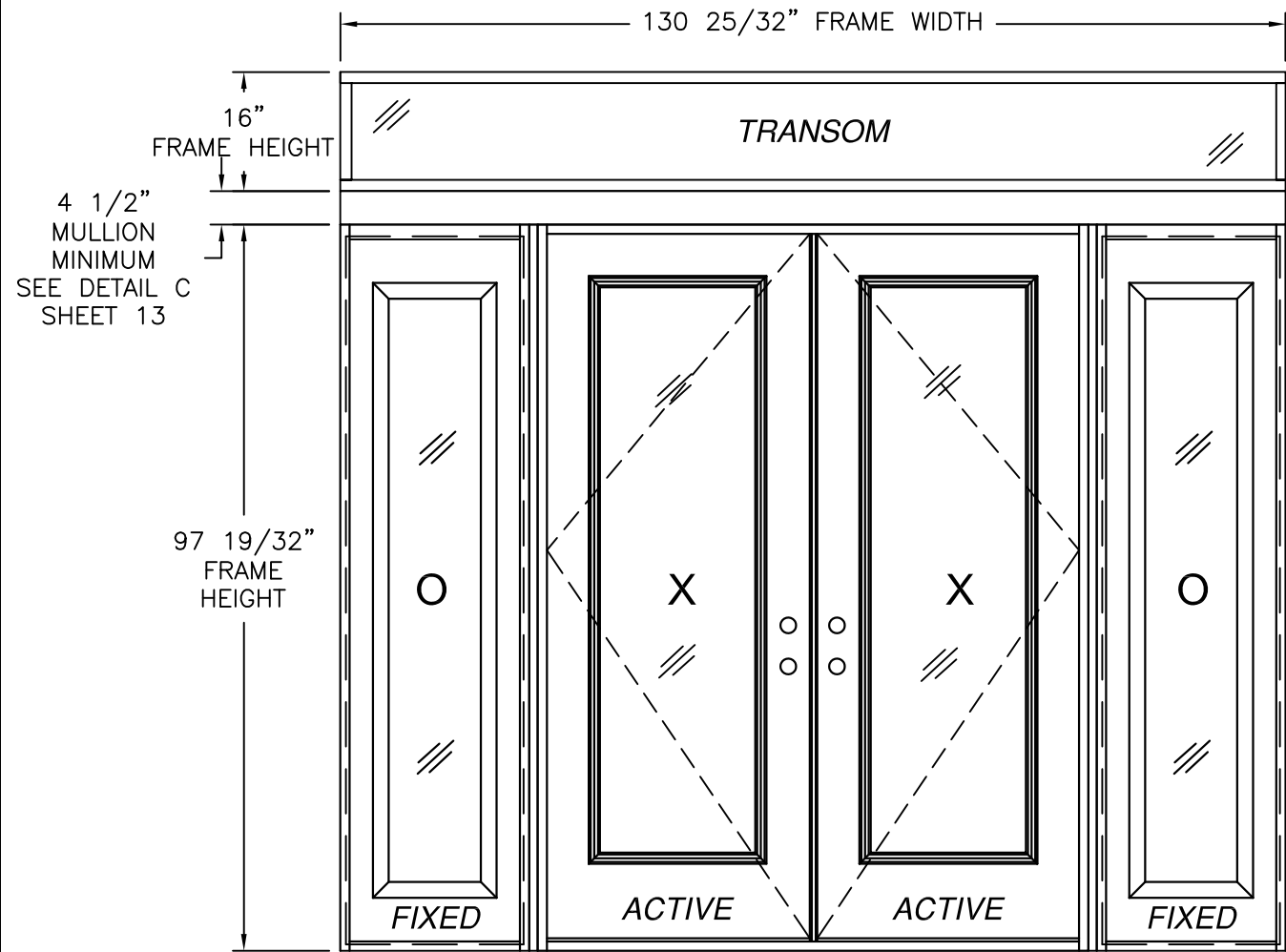
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL INSWING GLAZED DOUBLE DOOR W/SIDELITE & TRANSOM – IMPACT ELEVATIONS		
DRAWN: J.L.	DWG NO. 08-01968	REV K
SCALE NTS	DATE 04/23/13	SHEET 2 OF 17
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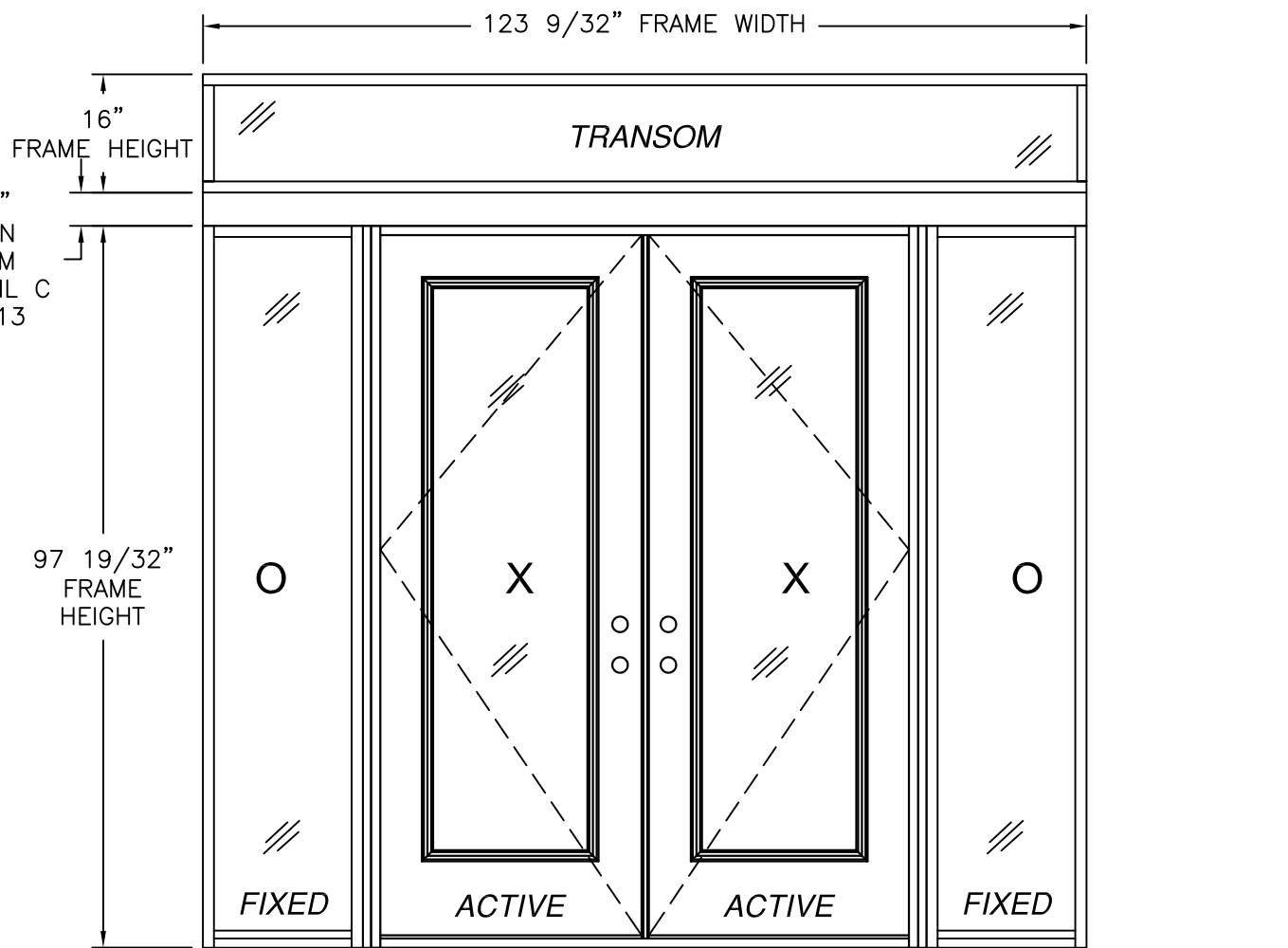


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DOUBLE DOOR W/ STD SIDELITES AND TRANSOM
EXTERIOR VIEW



DOUBLE DOOR W/ DIRECT SET SIDELITES AND TRANSOM
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STEEL INSWING GLAZED DOUBLE DOOR
W/SIDELITE & TRANSOM – IMPACT
ELEVATIONS AND APPROVED CONFIGURATIONS

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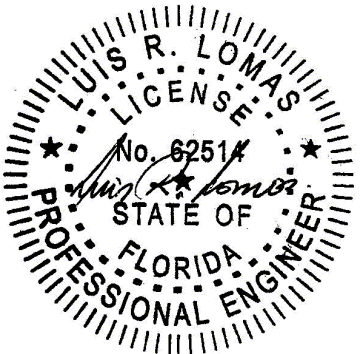
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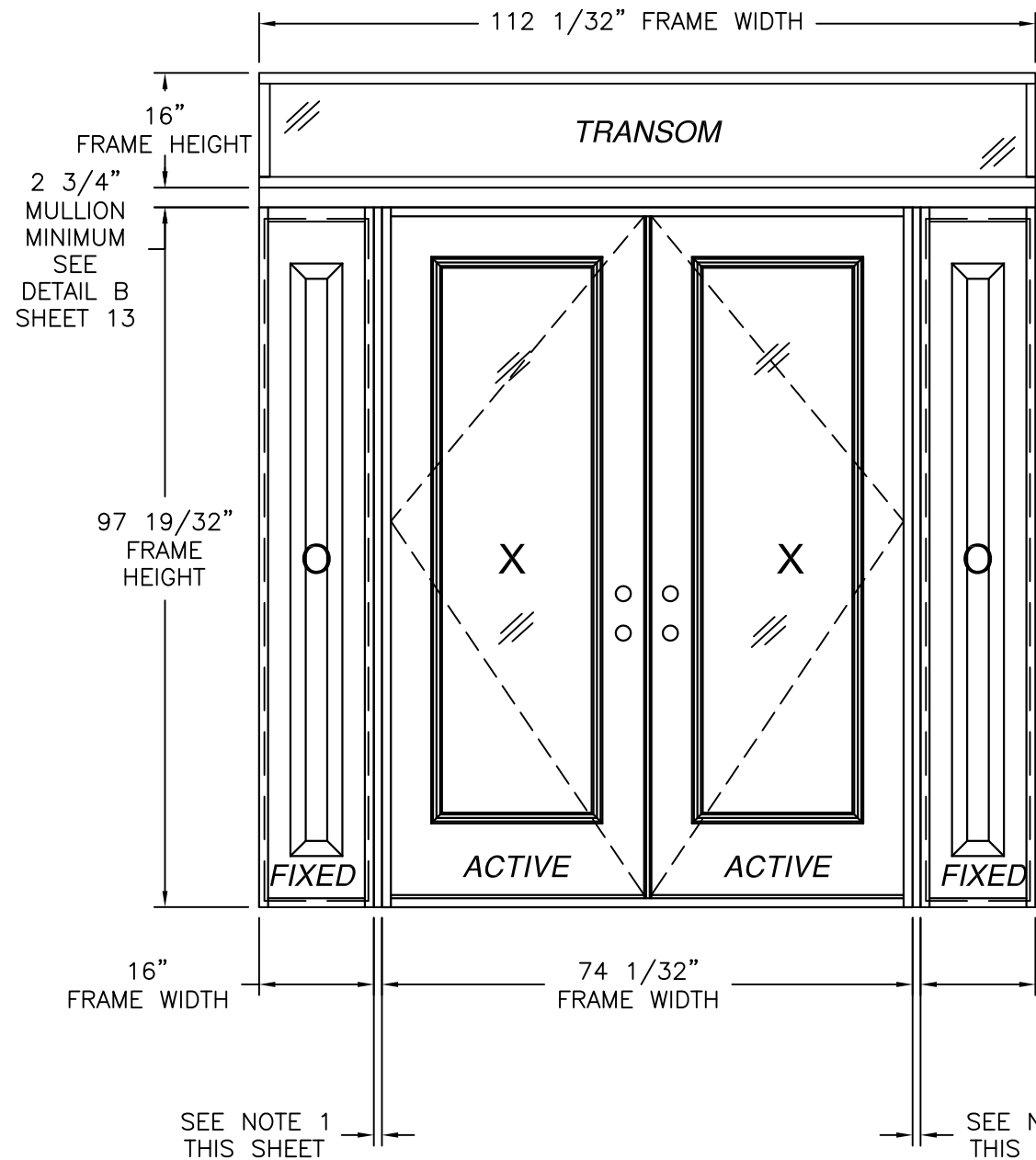
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3 OF 17

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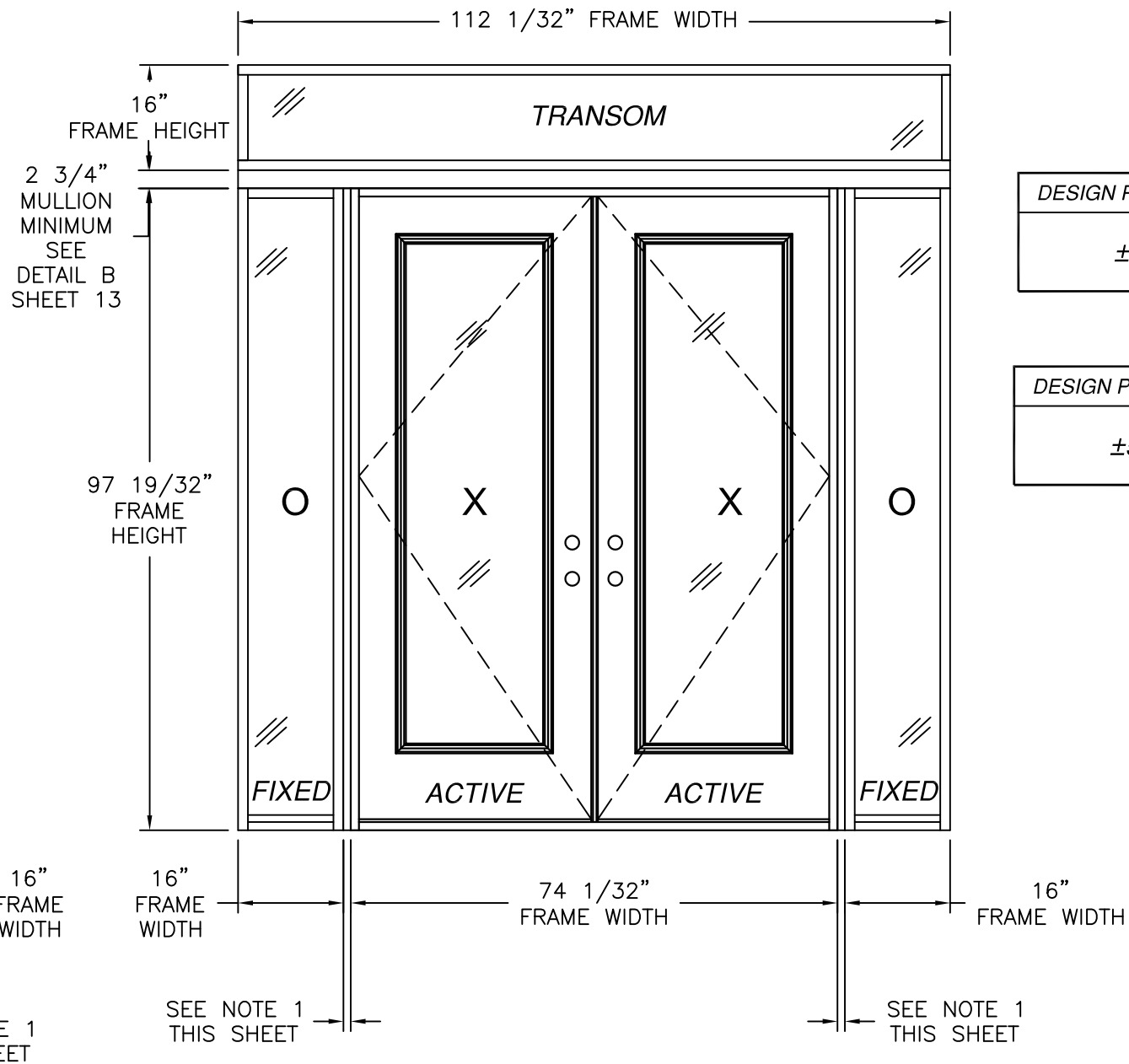


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DOUBLE DOOR W/ STD SIDELITES AND TRANSOM
EXTERIOR VIEW



DOUBLE DOOR W/ DIRECT SET 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

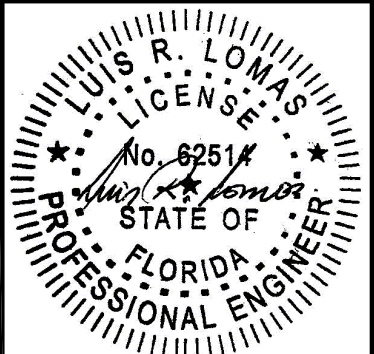
MISSILE LEVEL D, WIND ZONE 3

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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)

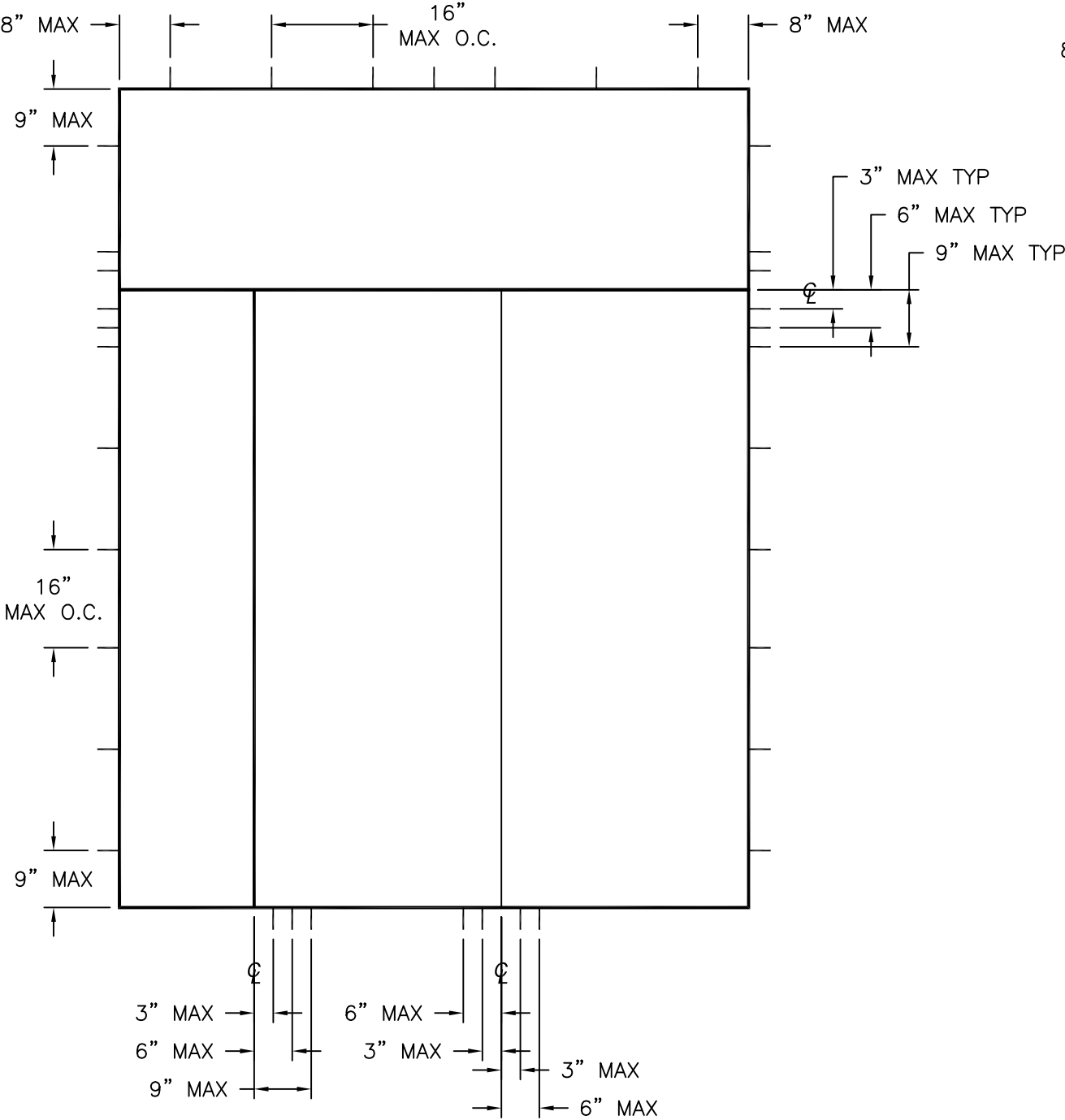
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DRAWN: J.L.	DWG NO. 08-01968	REV K
SCALE NTS	DATE 04/23/13	SHEET 4 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

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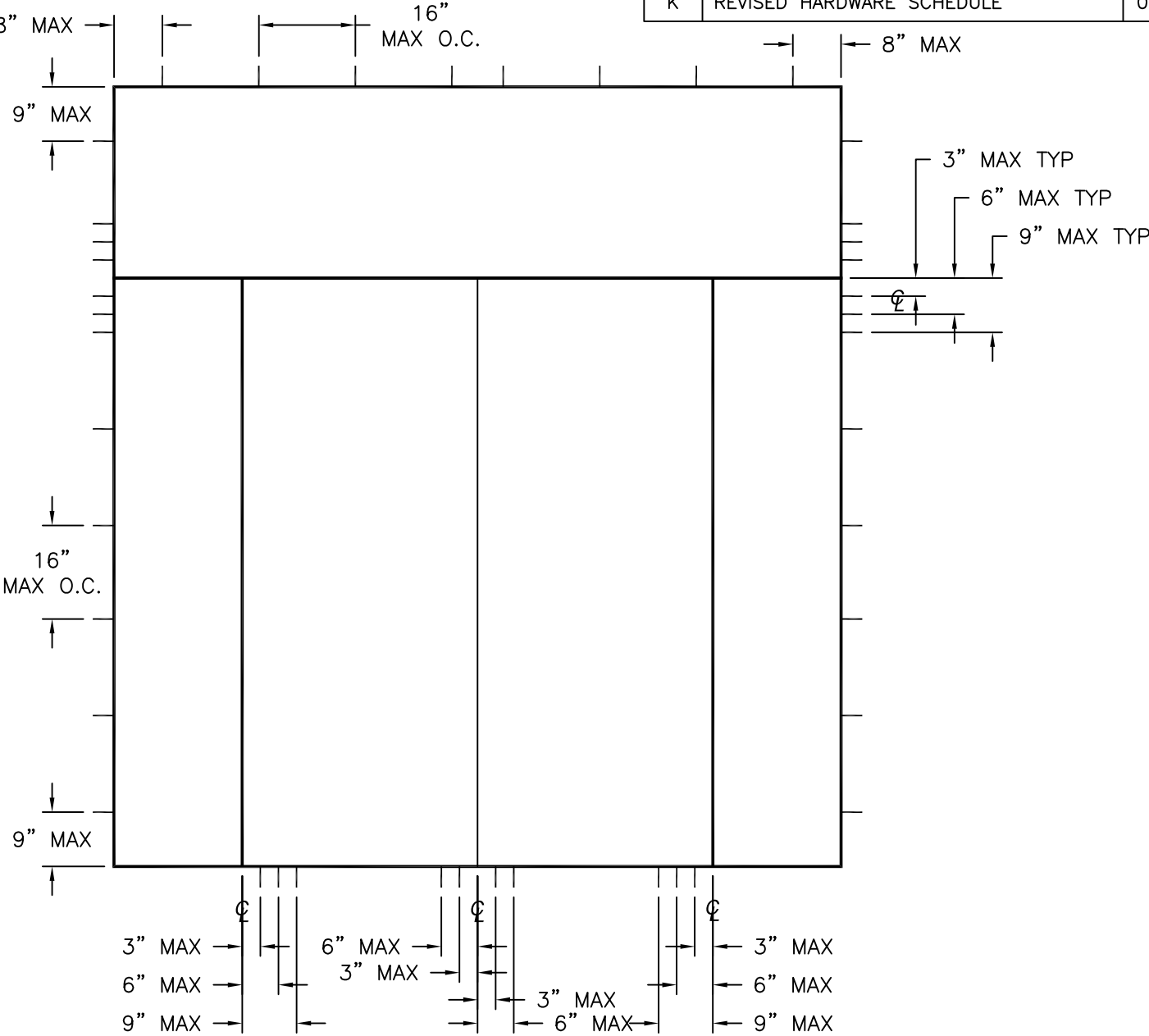


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DOUBLE DOOR W/SIDELITE AND TRANSOM
ANCHORING LAYOUT



DOUBLE DOOR & TRANSOM - IMPACT -
COMPOSITE/WOOD FRAME
ANCHORING LAYOUT

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/SIDELITE & TRANSOM – IMPACT
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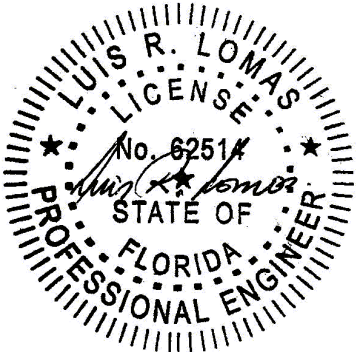
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SHEET 5 OF 17

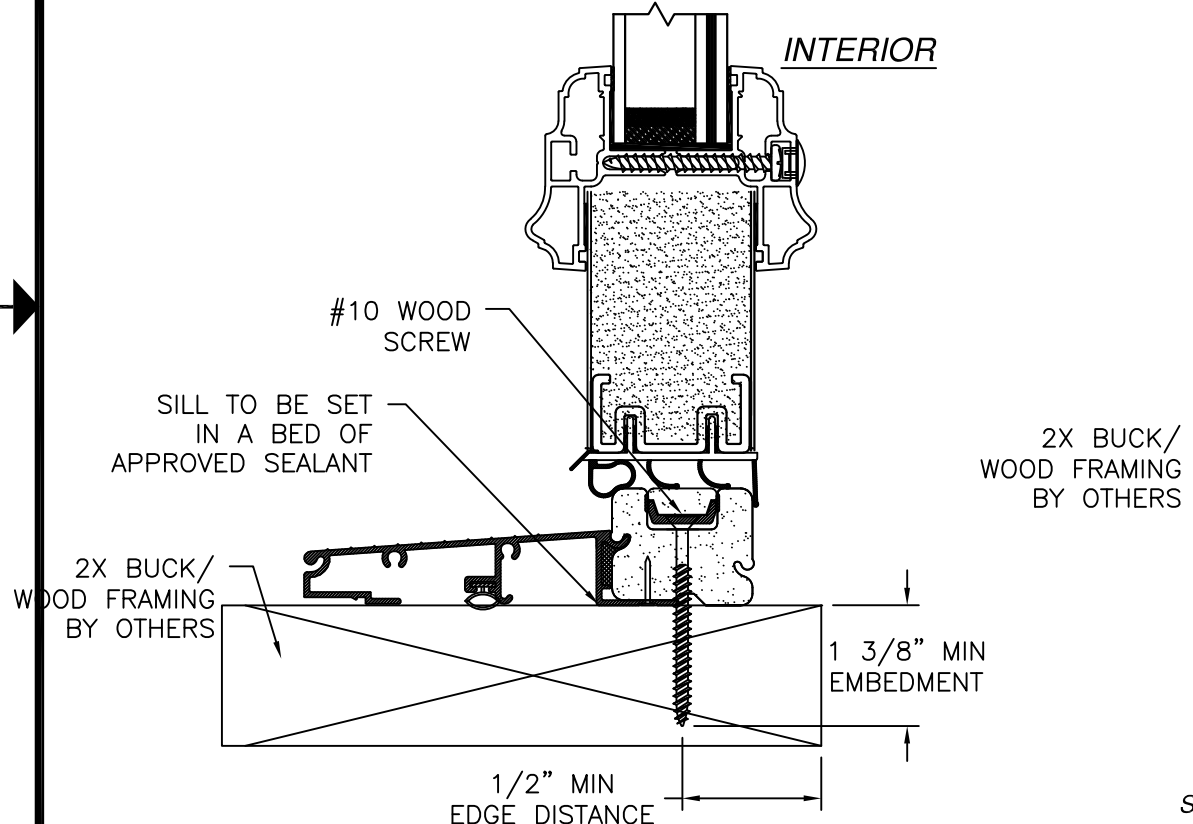
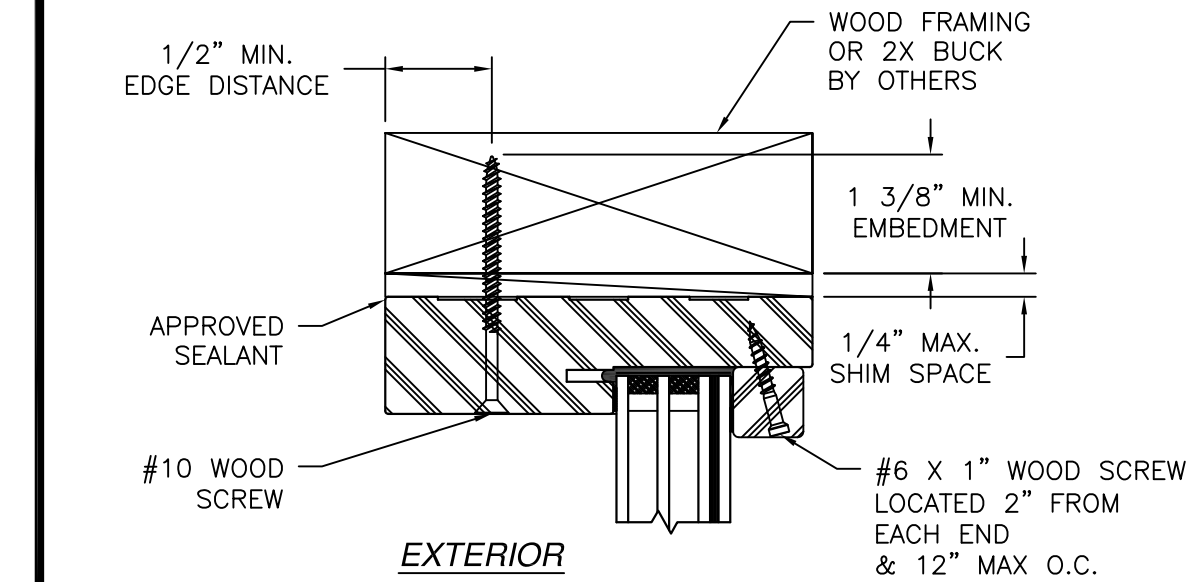
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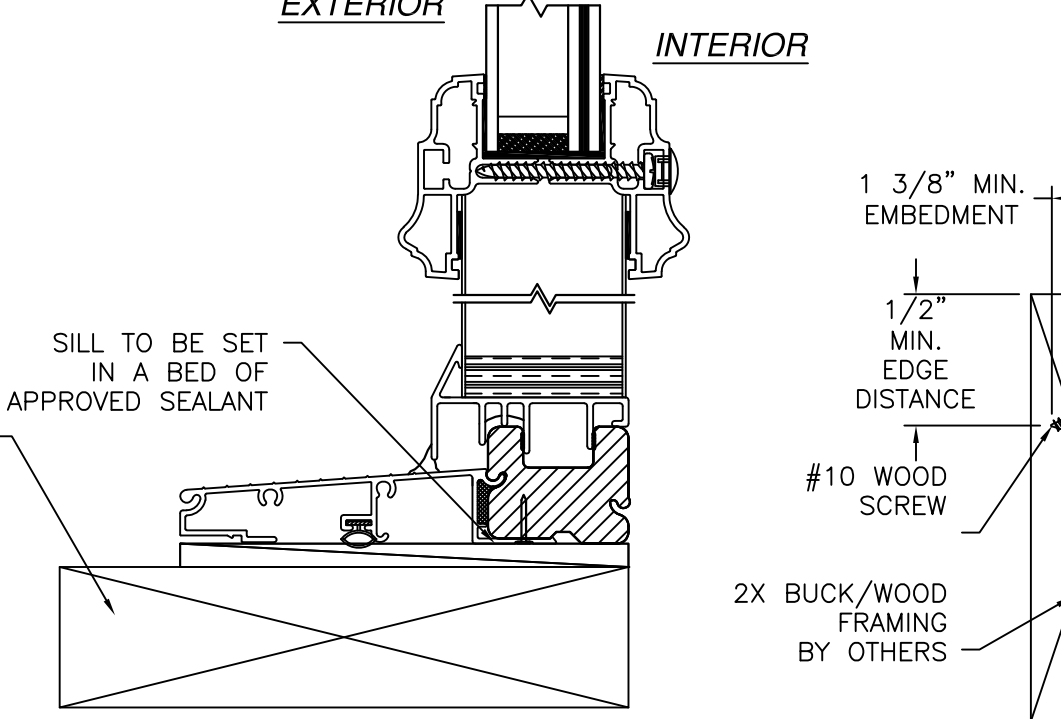
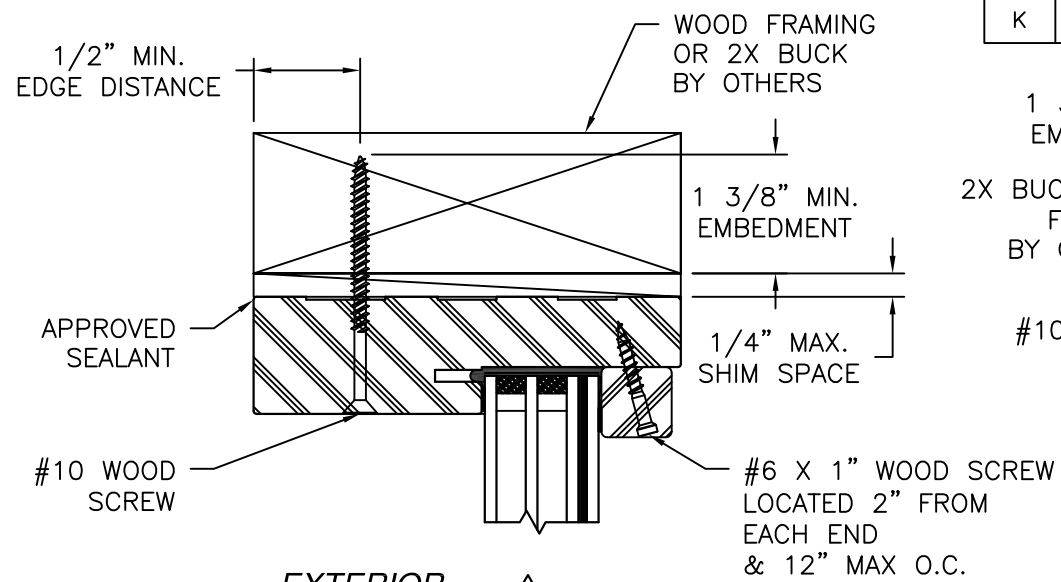


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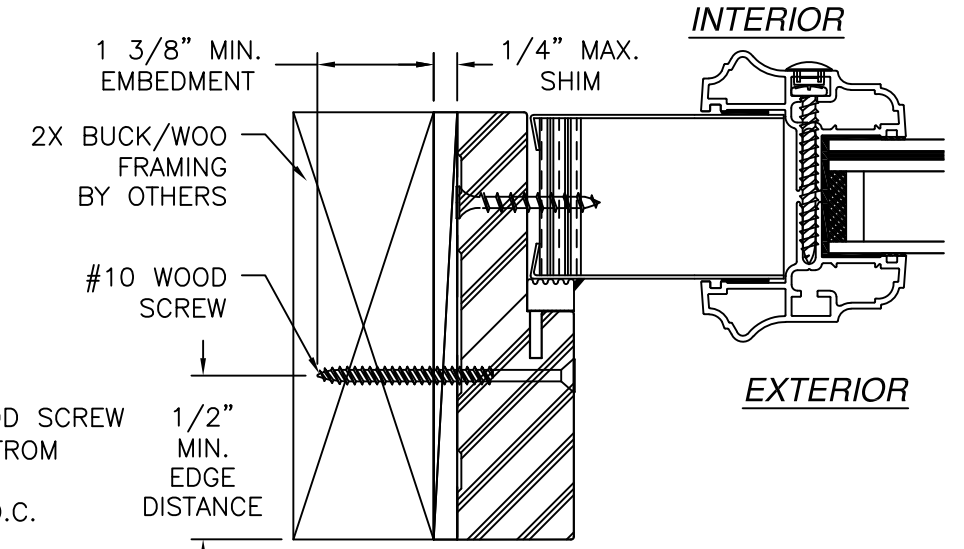


VERTICAL CROSS SECTION
DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING

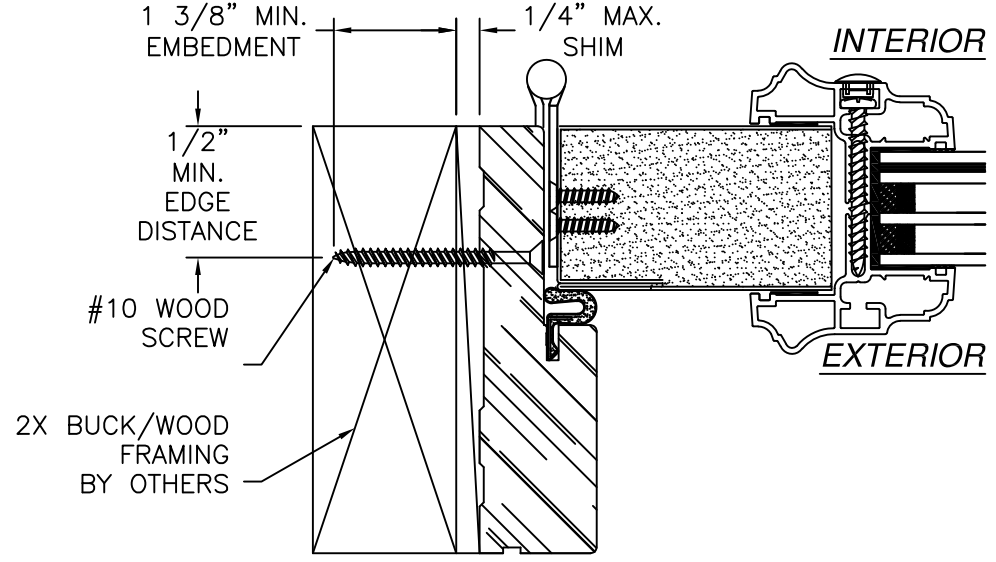


VERTICAL CROSS SECTION
SIDELITE AND TRANSOM INSTALLATION 2X BUCK/WOOD FRAMING
STANDARD SIDELITE SHOWN
DIRECT SET SIDELITE SIMILAR
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR

- 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



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



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

PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL INSWING GLAZED DOUBLE DOOR
W/SIDELITE & TRANSOM – IMPACT
INSTALLATION DETAILS

DRAWN: J.L.

DWG NO. 08-01968

REV K

SCALE NTS

DATE 04/23/13

SHEET 6 OF 17

L. ROBERTO LOMAS P.E.

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LUIS R. LOMAS

LICENS. M.C.S.

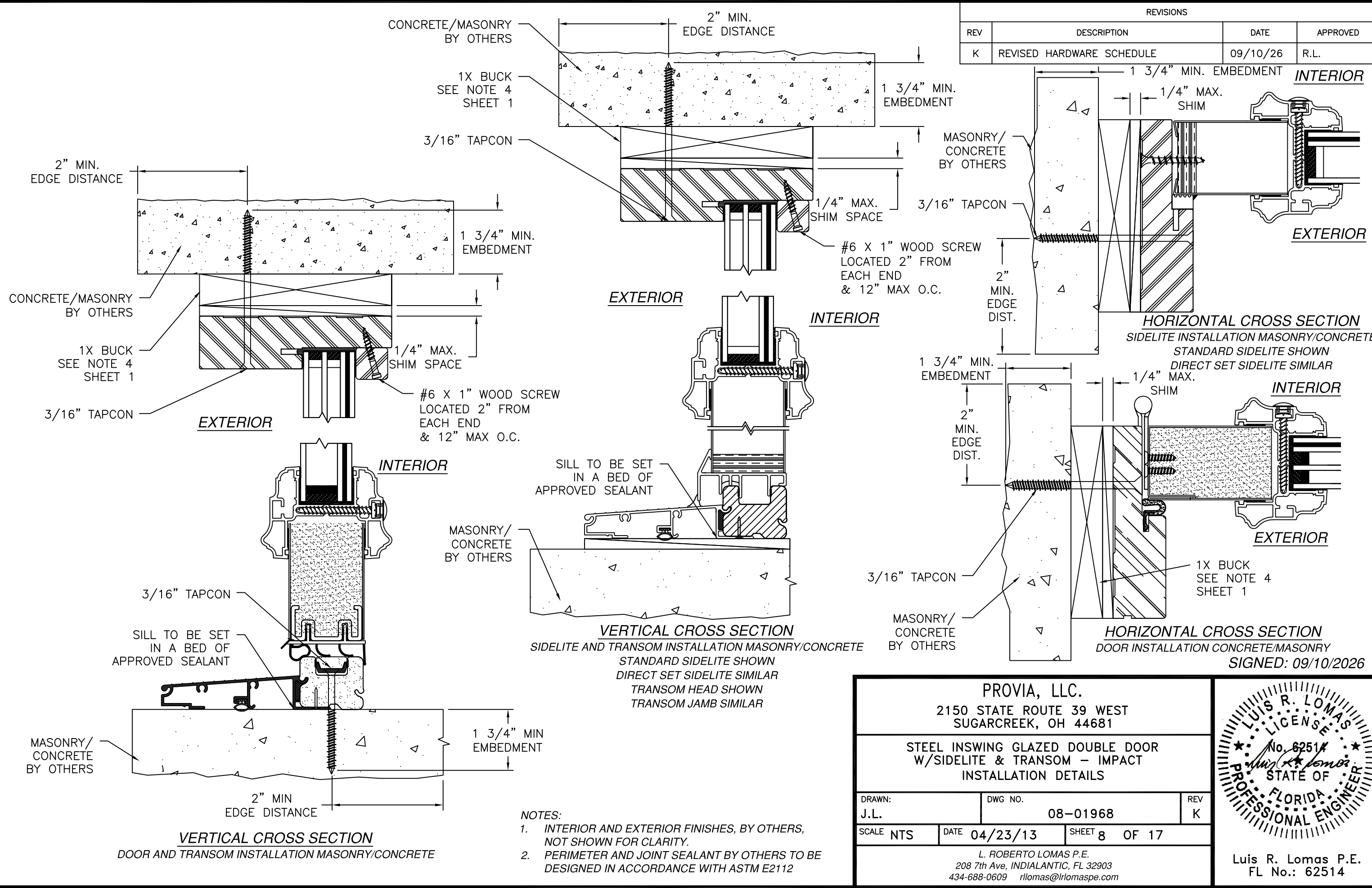
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STATE OF FLORIDA

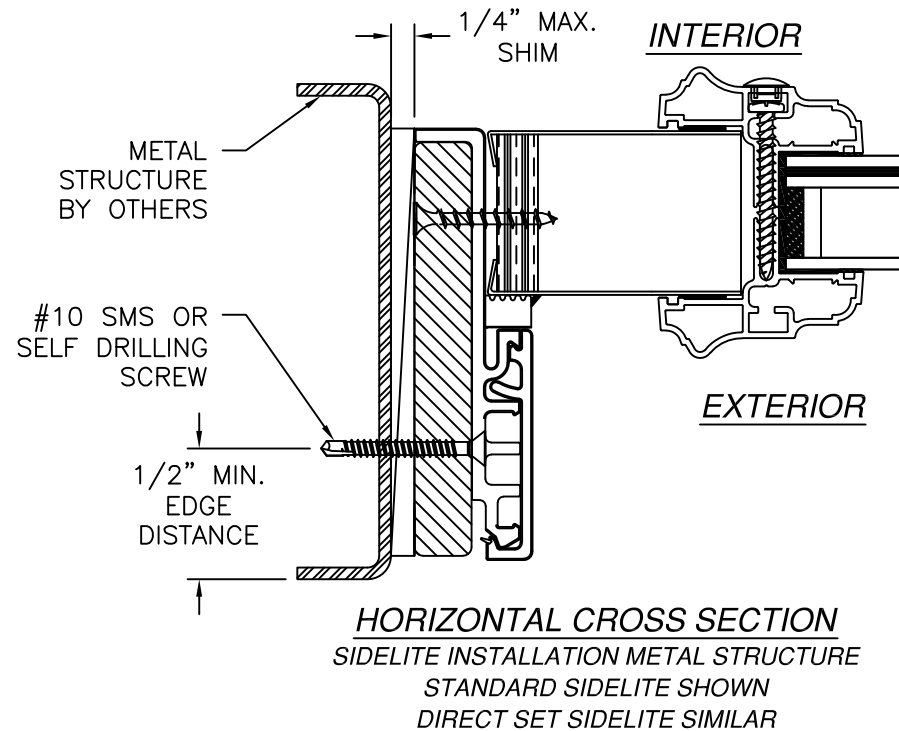
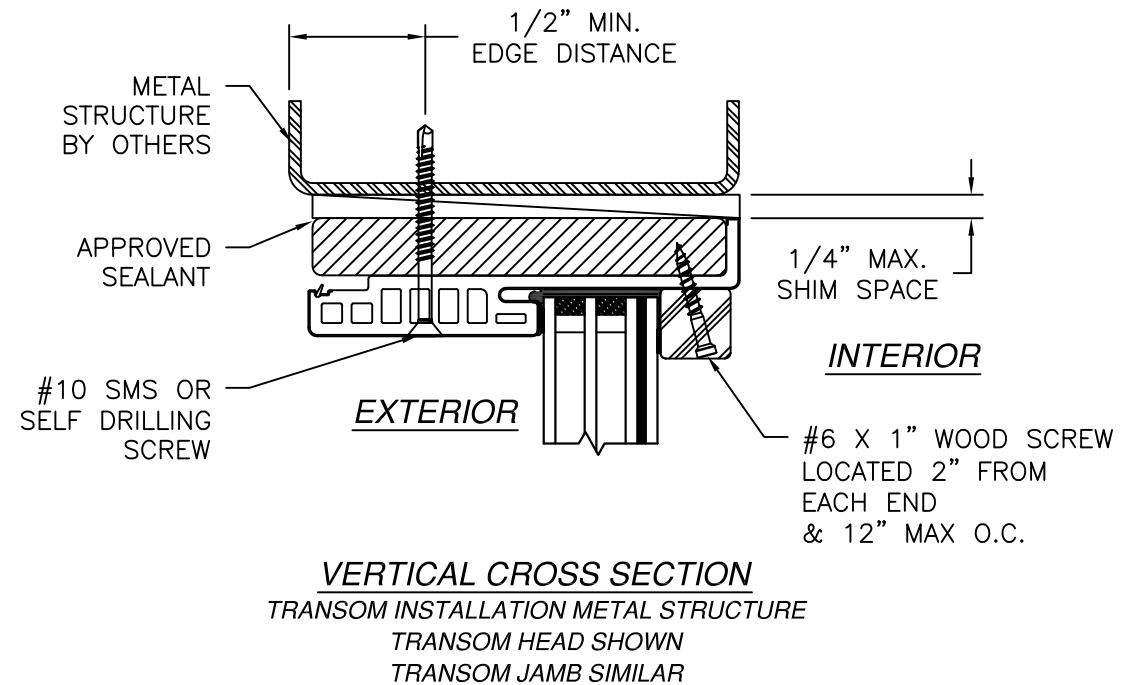
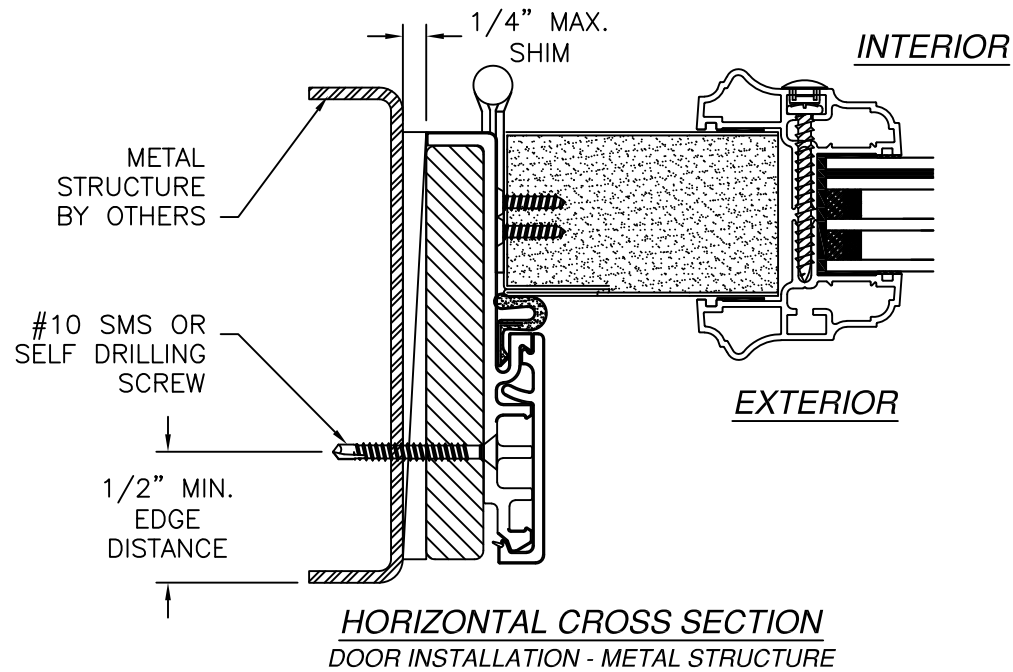
PROFESSIONAL ENGINEER

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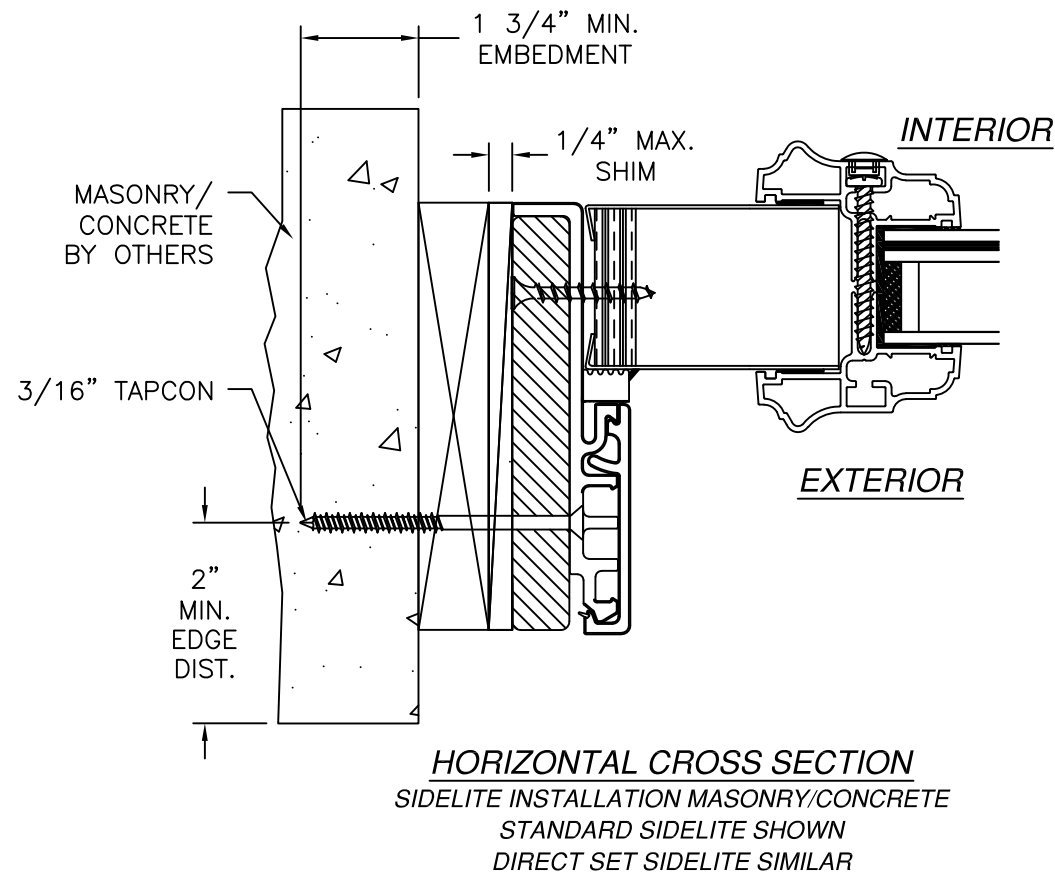
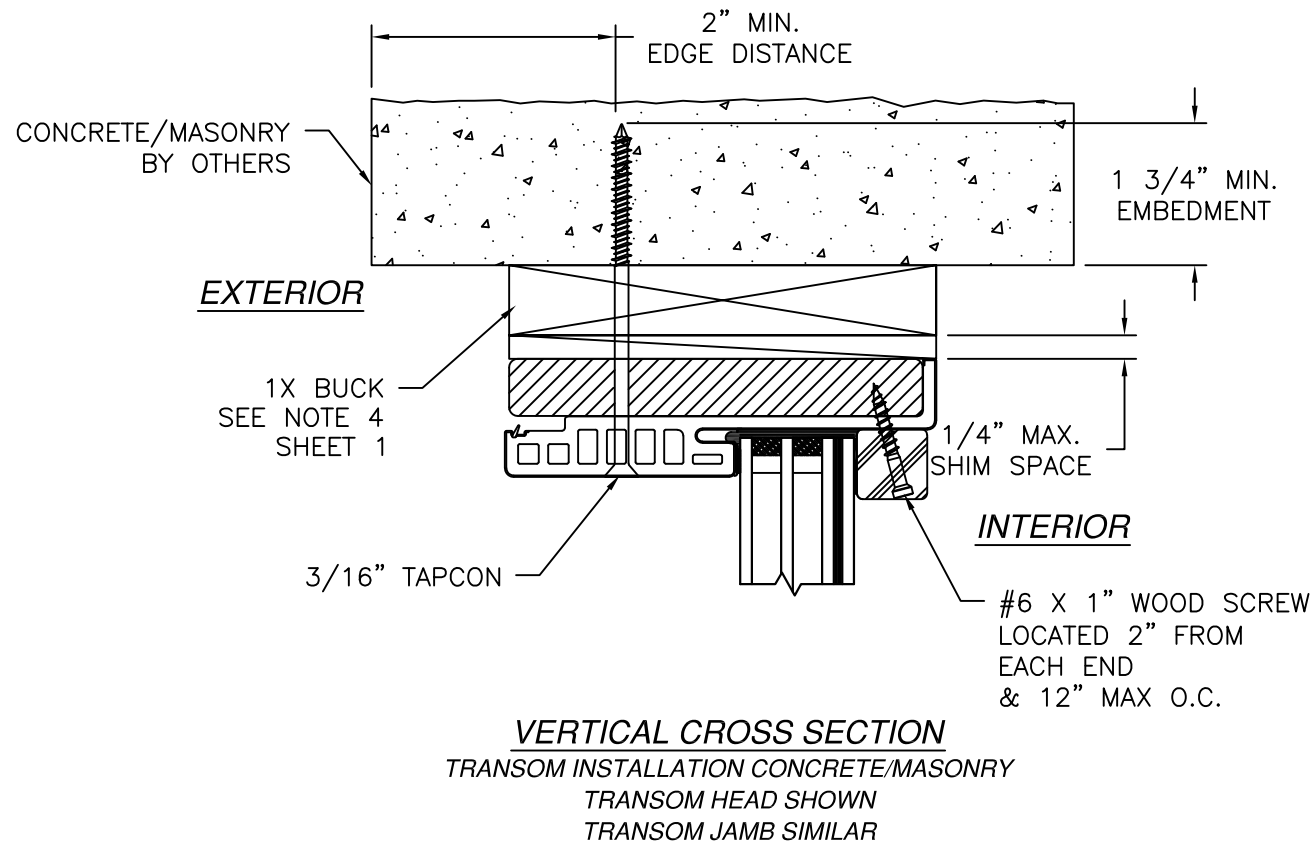
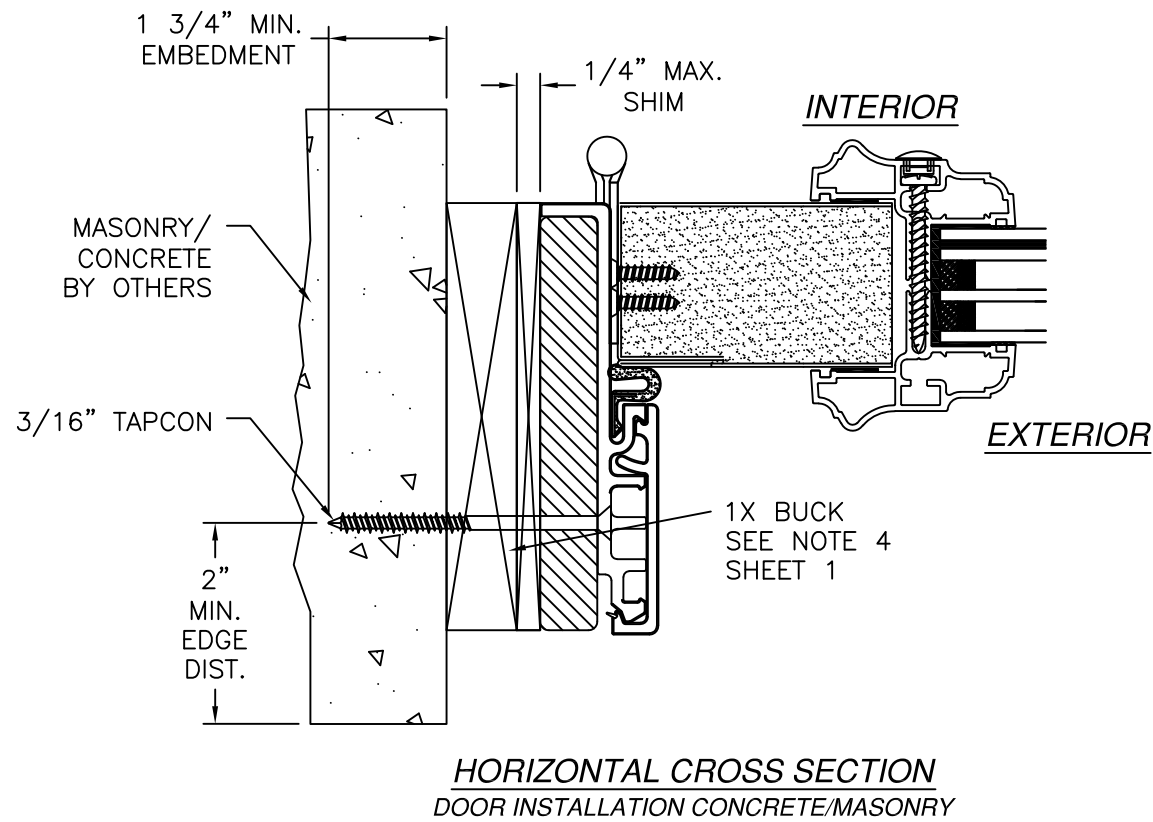


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STEEL INSWING GLAZED DOUBLE DOOR W/SIDELITE & TRANSOM – IMPACT INSTALLATION DETAILS W/FUSION FRAME			
DRAWN: J.L.	DWG NO. 08-01968	REV K	
SCALE NTS	DATE 04/23/13	SHEET 10 OF 17	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			Luis R. Lomas P.E. FL No.: 62514

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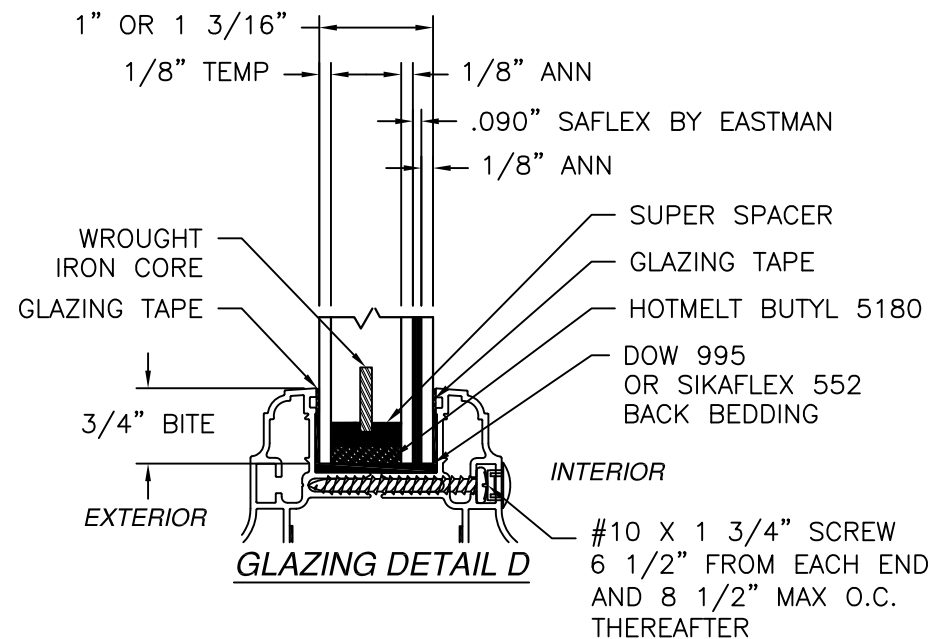
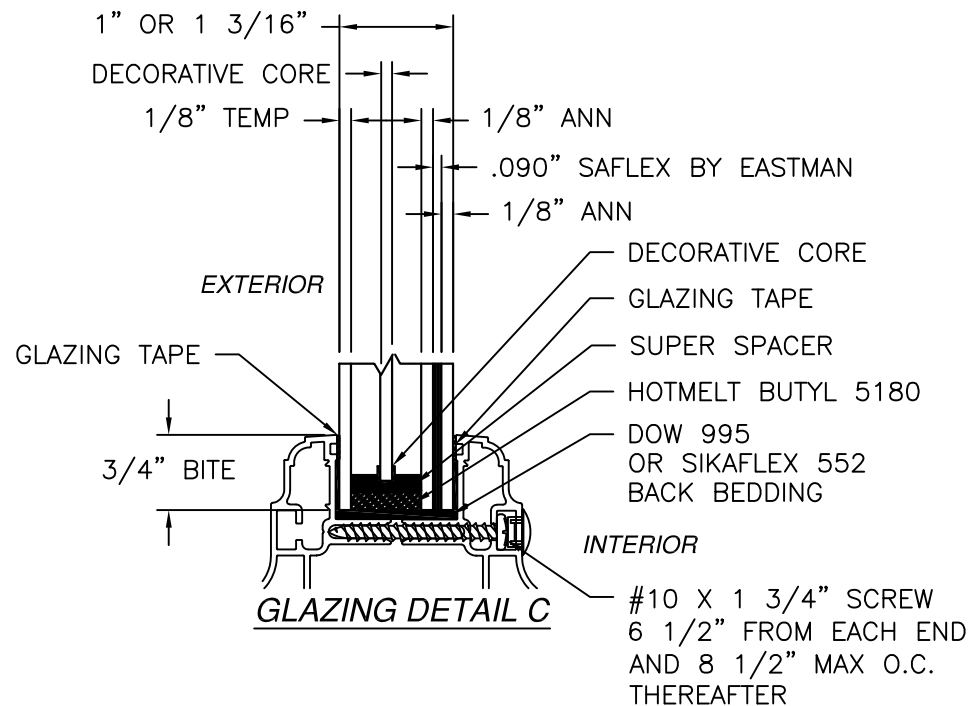
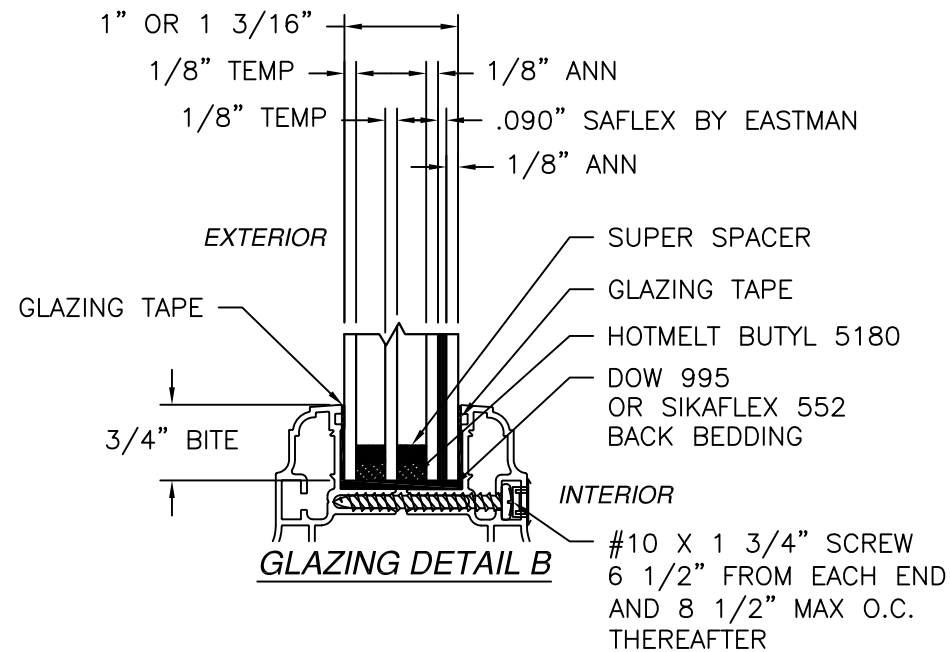
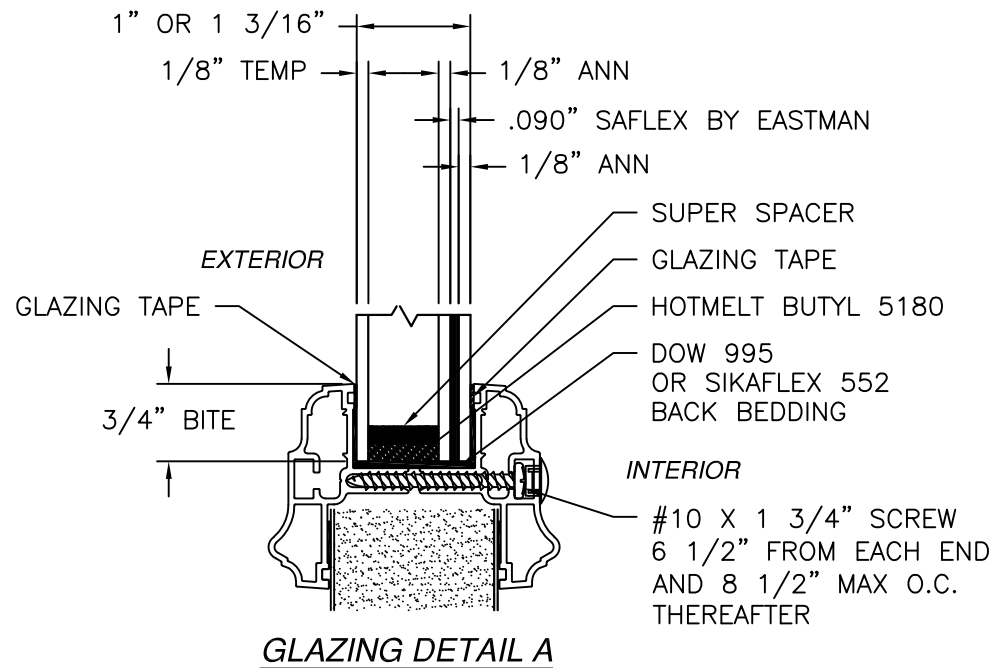
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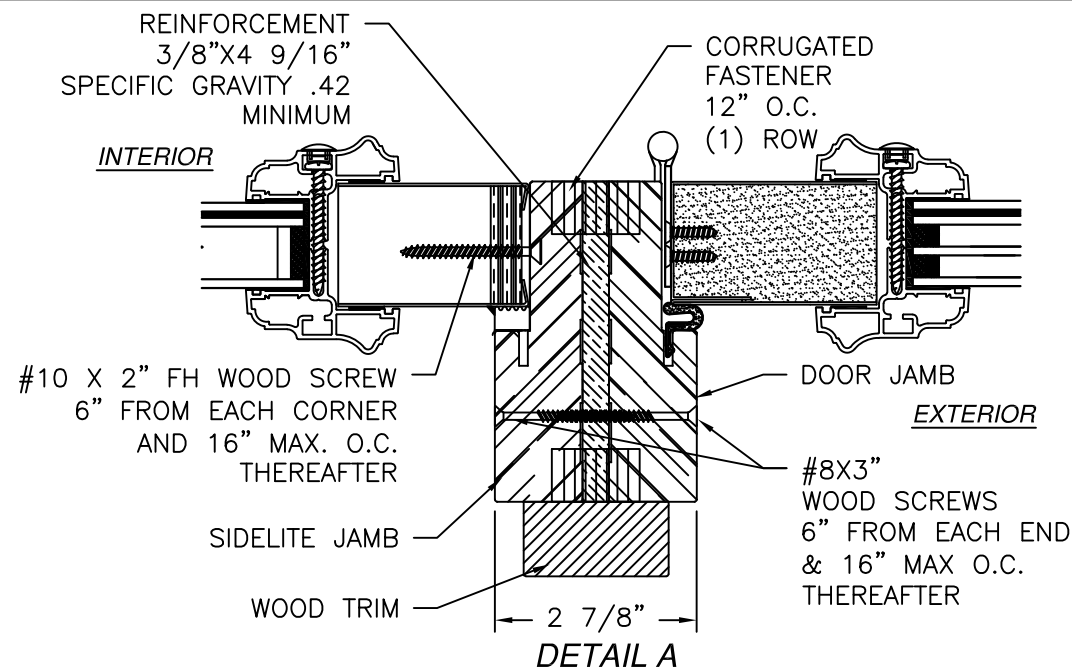
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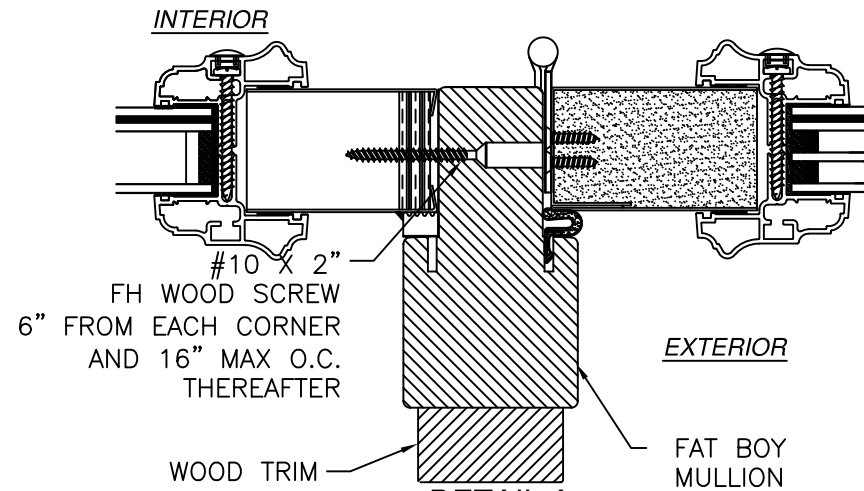
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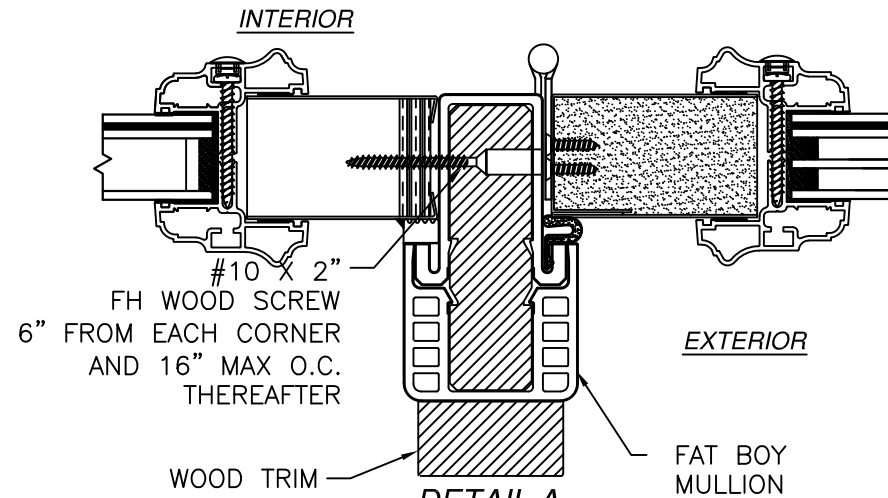
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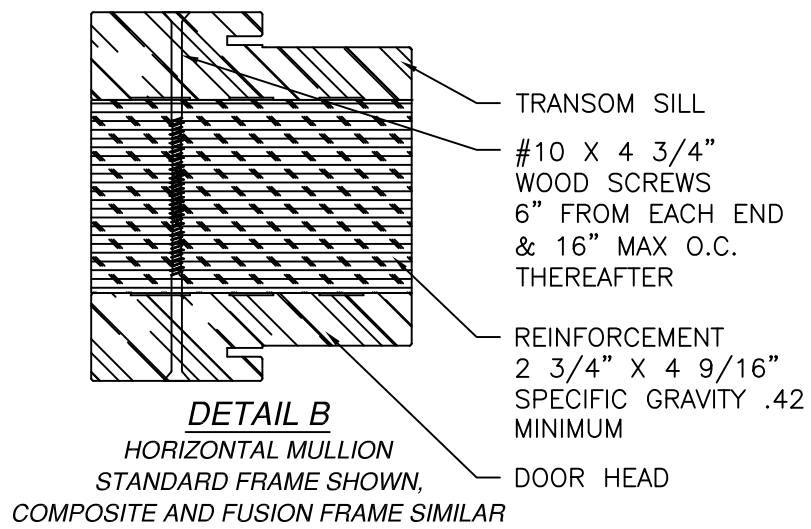
DETAIL A
VERTICAL MULLION
STANDARD FRAME SHOWN,
COMPOSITE AND FUSION FRAME SIMILAR



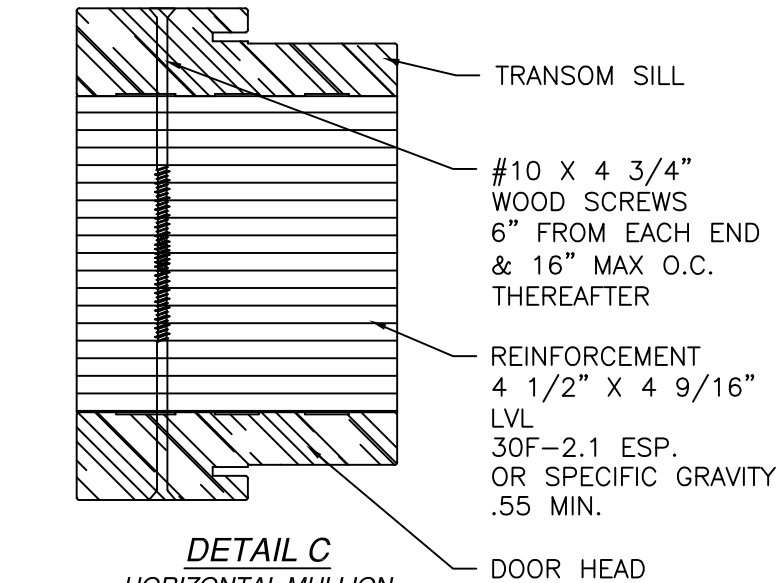
DETAIL A
WITH FAT BOY MULLION



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
K	REVISED HARDWARE SCHEDULE	09/10/26	R.L.

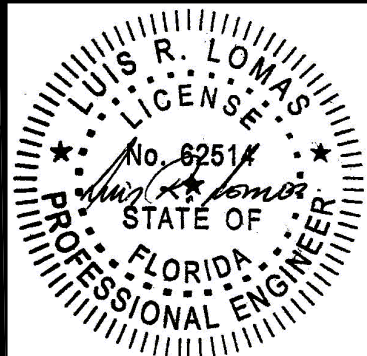
SIGNED: 09/10/2026

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

STEEL INSWING GLAZED DOUBLE DOOR
W/SIDELITE & TRANSOM – IMPACT
MULLION DETAILS

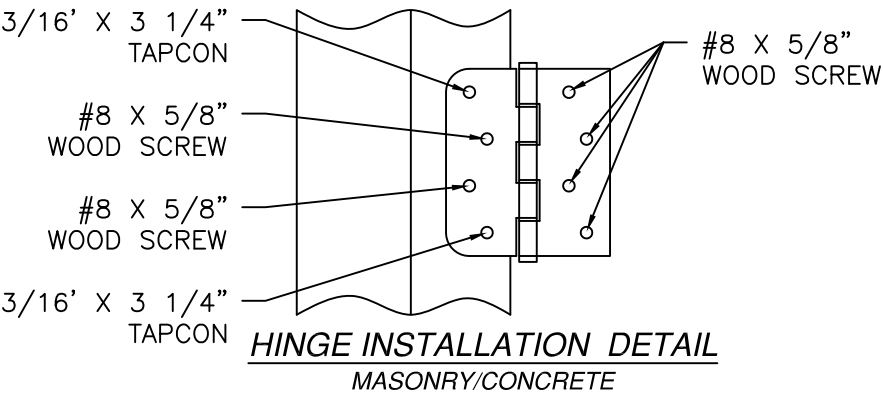
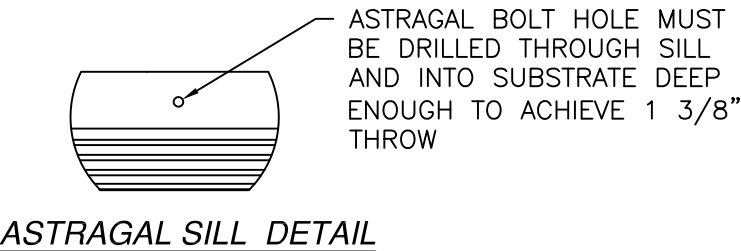
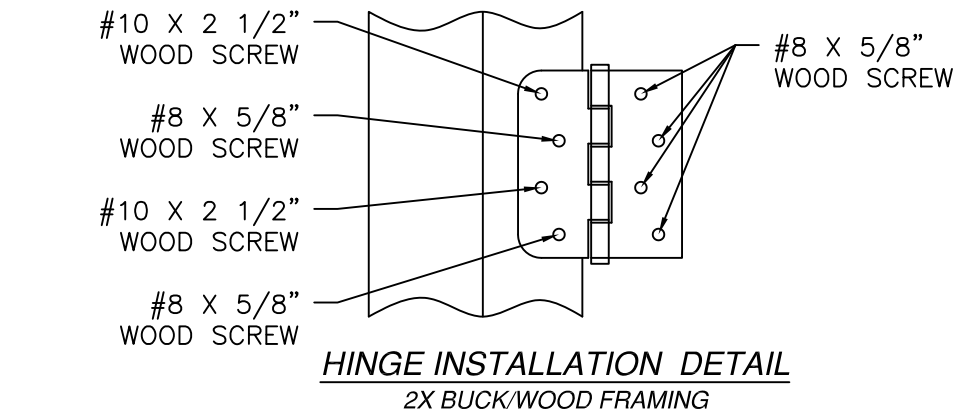
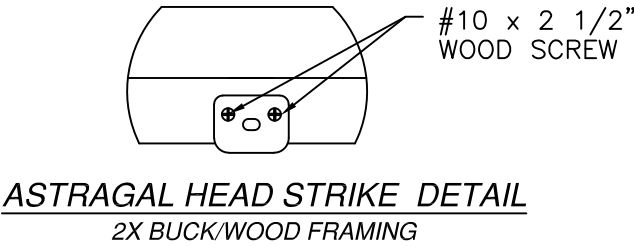
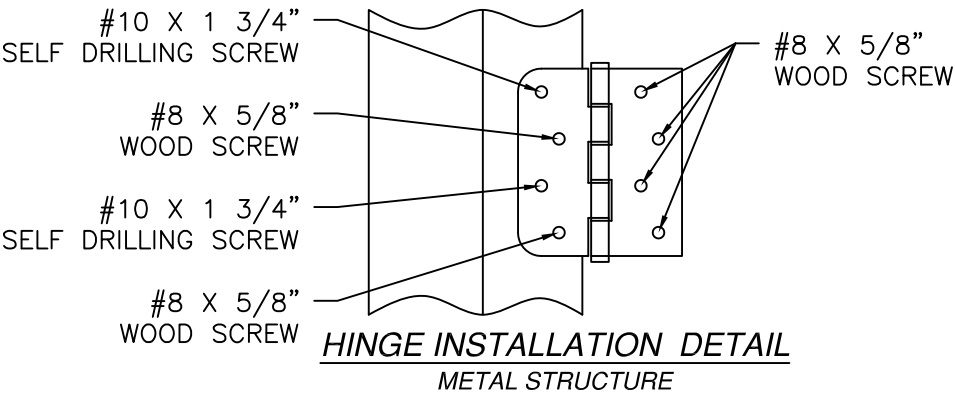
DRAWN: J.L.	DWG NO. 08-01968	REV K
SCALE NTS	DATE 04/23/13	SHEET 13 OF 17

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



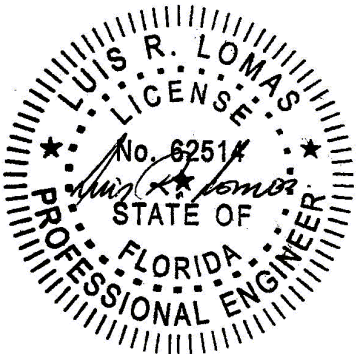
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/10/26	R.L.



PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL INSWING GLAZED DOUBLE DOOR W/SIDELITE & TRANSOM – IMPACT COMPONENTS DETAILS		
DRAWN: J.L.	DWG NO. 08-01968	REV K
SCALE NTS	DATE 04/23/13	SHEET 14 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

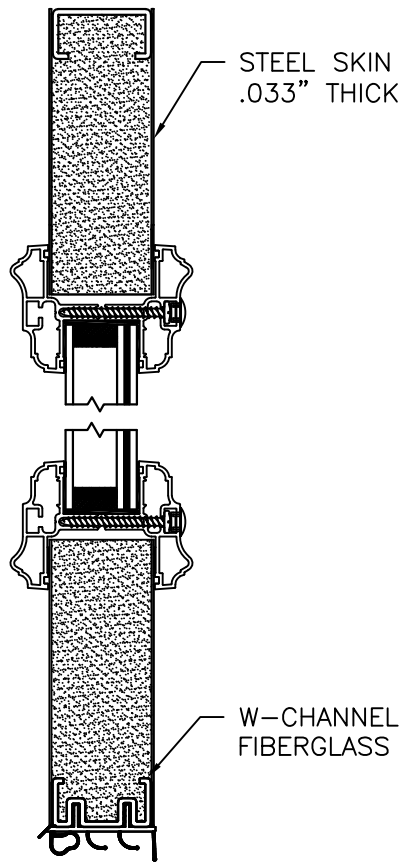
SIGNED: 09/10/2026



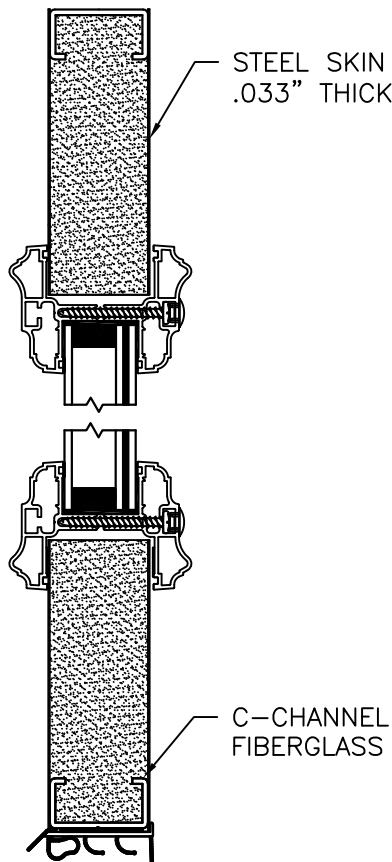
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SLABS AND TRIMS

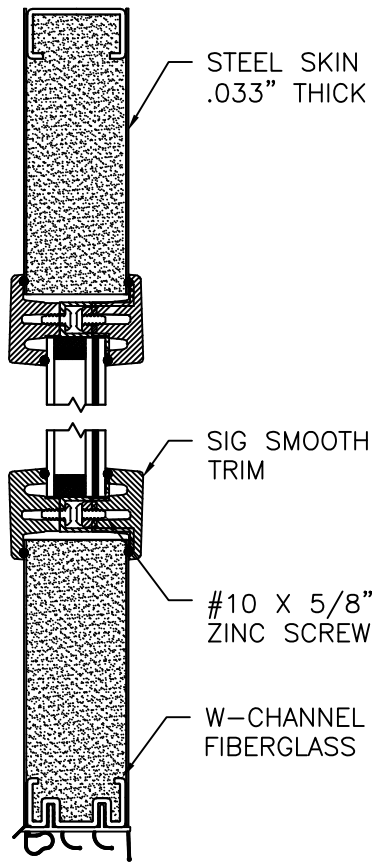
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
K	REVISED HARDWARE SCHEDULE	09/10/26	R.L.



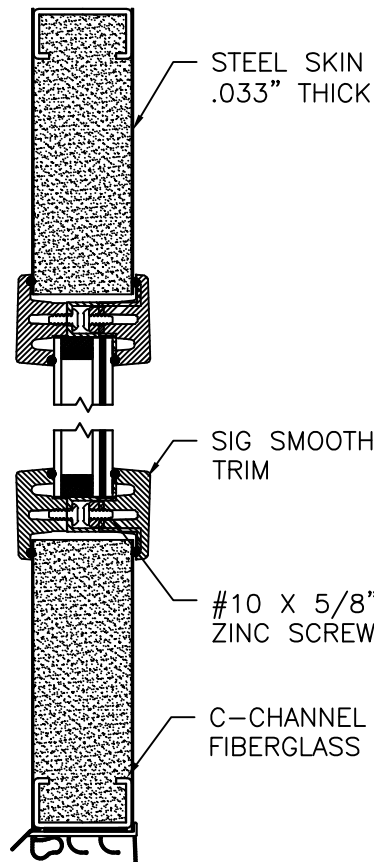
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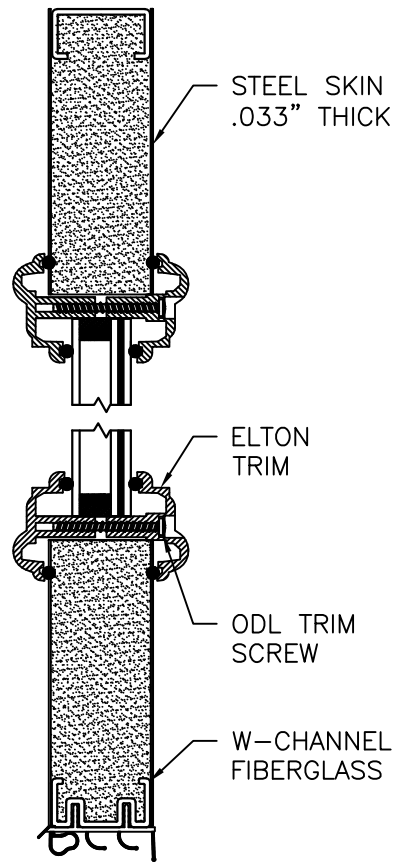
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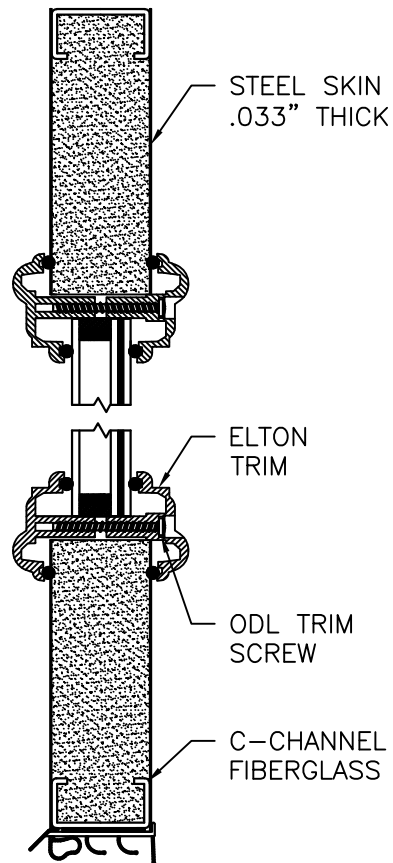
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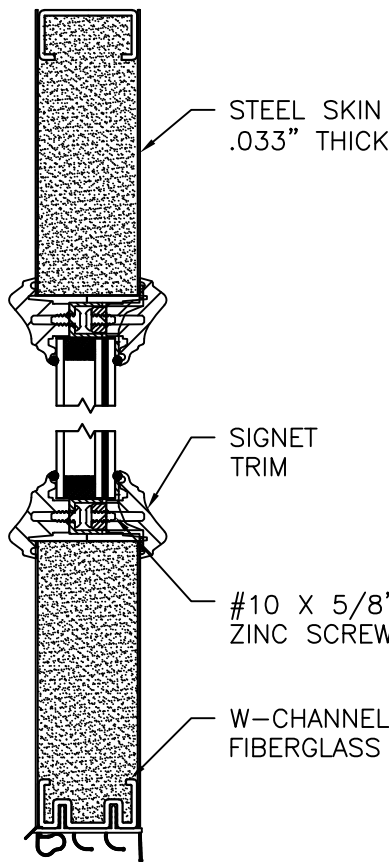
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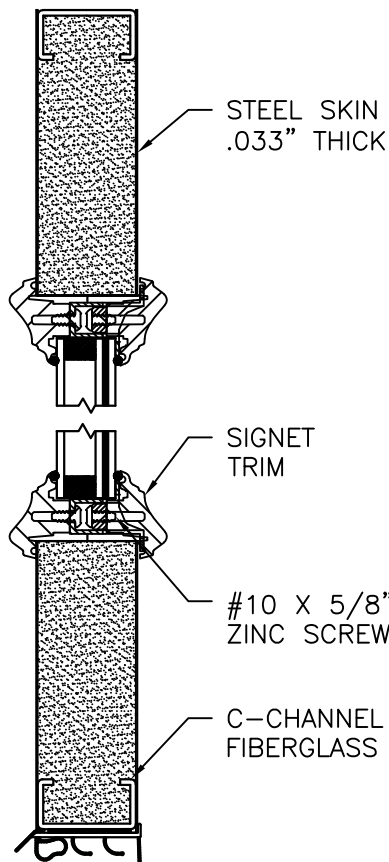
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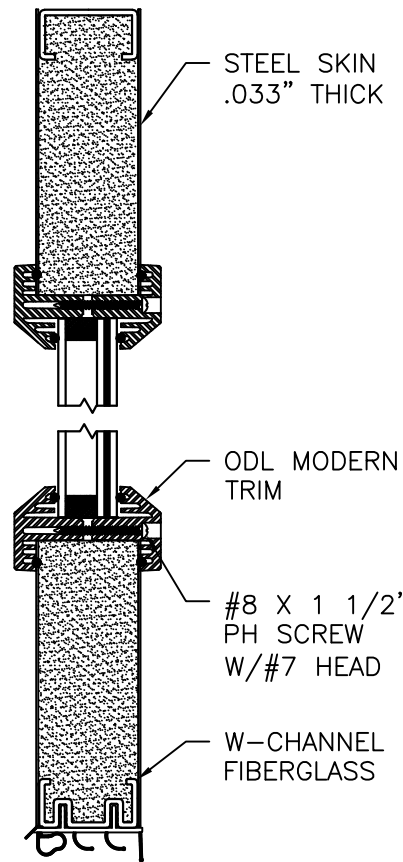
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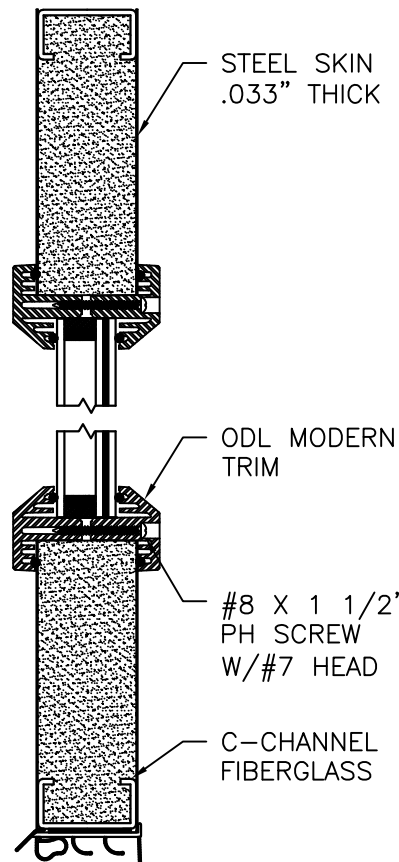
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PANEL OPTION 6



PANEL OPTION 7



PANEL OPTION 8

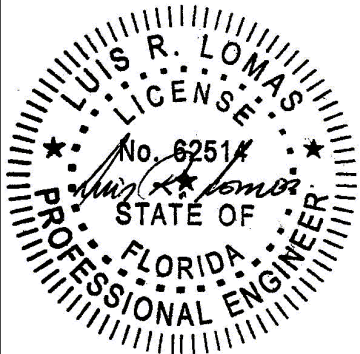
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

STEEL INSWING GLAZED DOUBLE DOOR
W/SIDELITE & TRANSOM - IMPACT
APPROVED SLABS

DRAWN: J.L.	DWG NO. 08-01968	REV K
SCALE NTS	DATE 04/23/13	SHEET 15 OF 17

L. ROBERTO LOMAS P.E.
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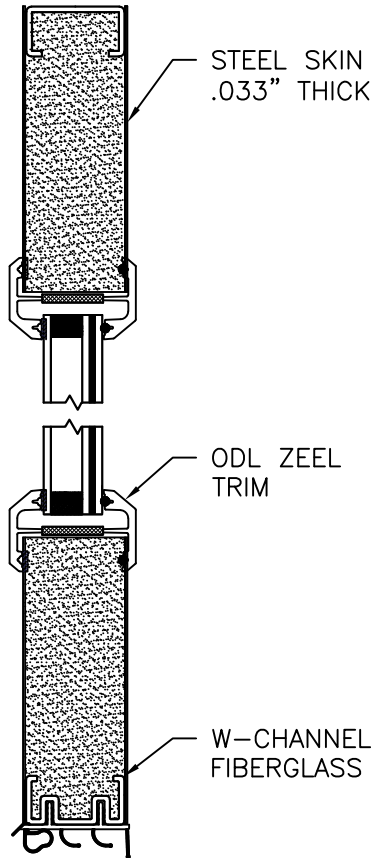
SIGNED: 09/10/2026



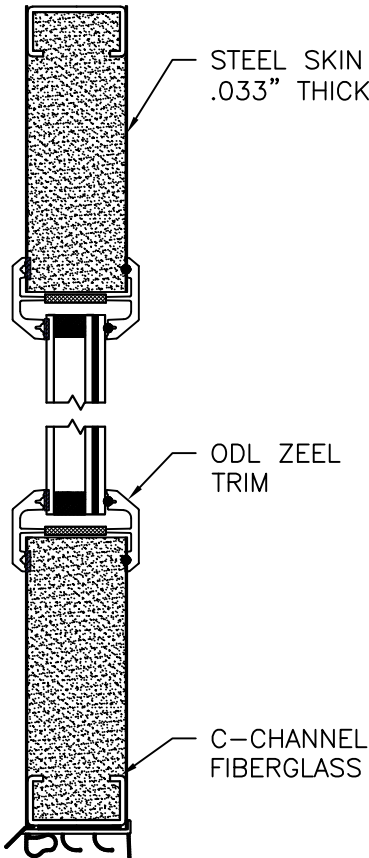
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SLABS AND TRIMS

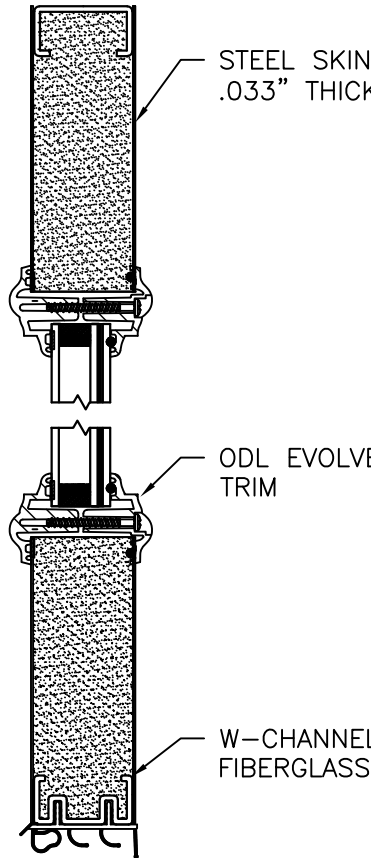
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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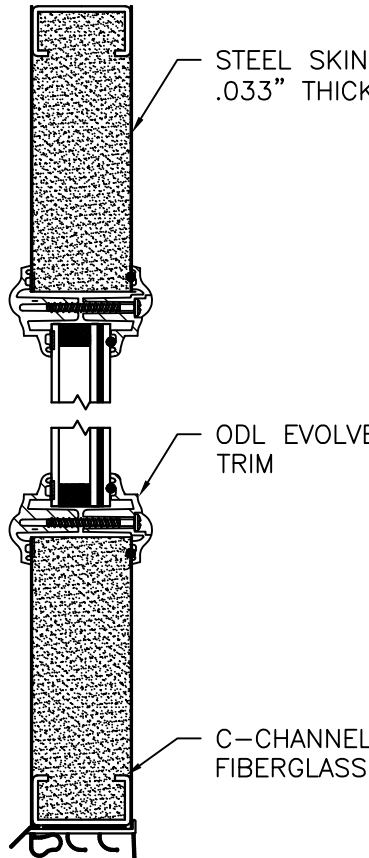
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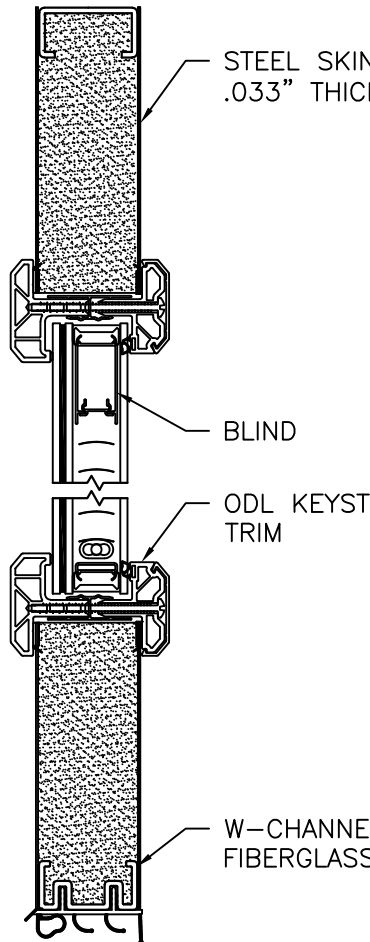
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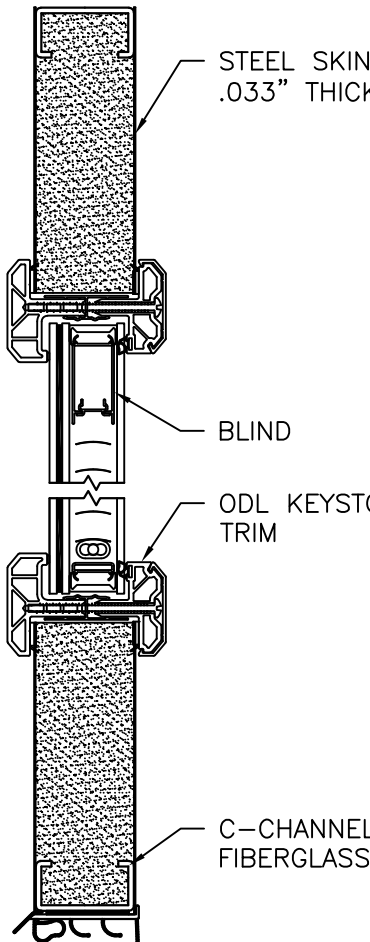
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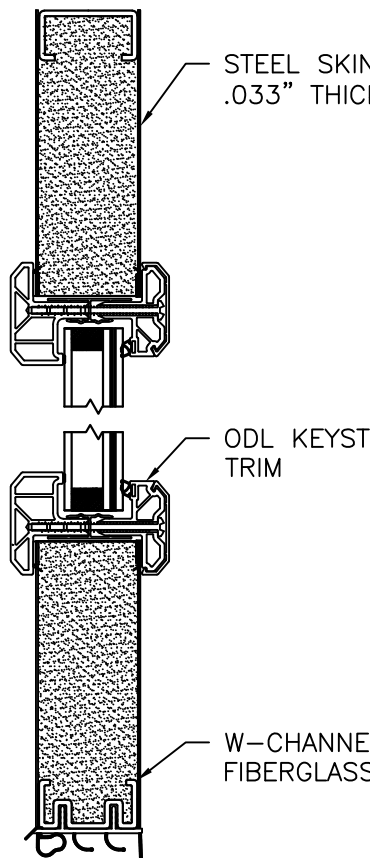
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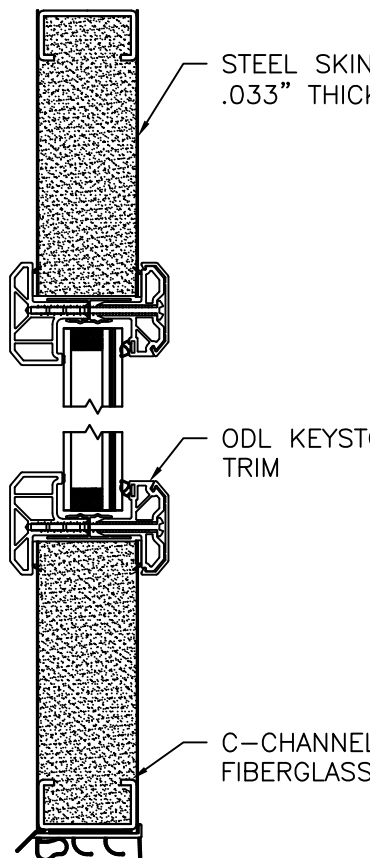
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PANEL OPTION 16



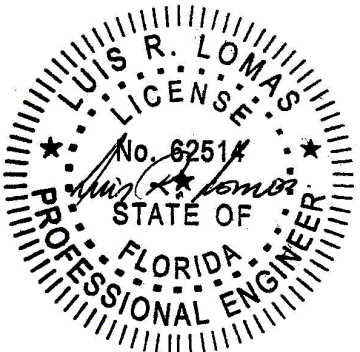
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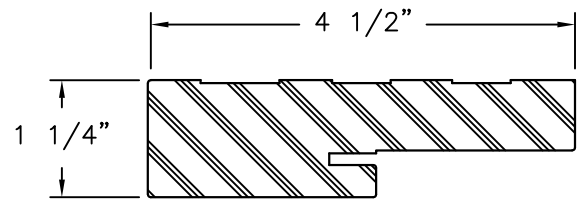
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SIGNED: 09/10/2026

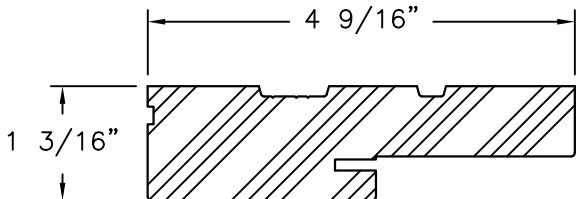
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL INSWING GLAZED DOUBLE DOOR W/SIDELITE & TRANSOM - IMPACT APPROVED SLABS		
DRAWN: J.L.	DWG NO. 08-01968	REV K
SCALE NTS	DATE 04/23/13	SHEET 16 OF 17
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



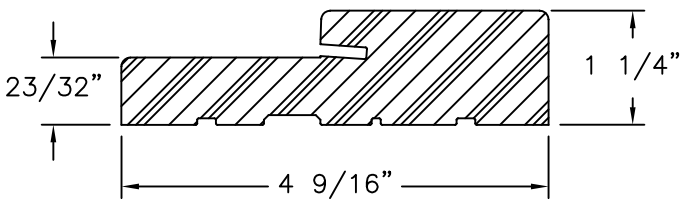
Luis R. Lomas P.E.
FL No.: 62514



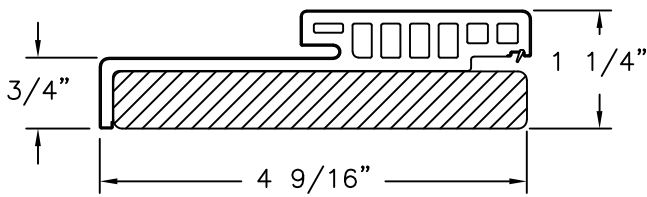
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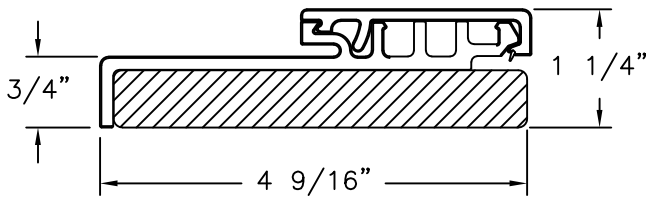
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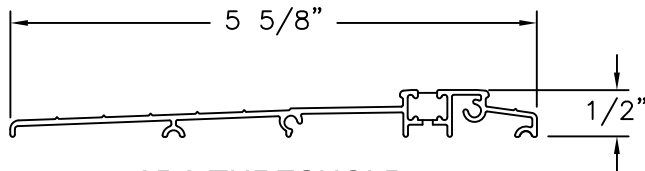
FRAMESAVER
COMPOSITE



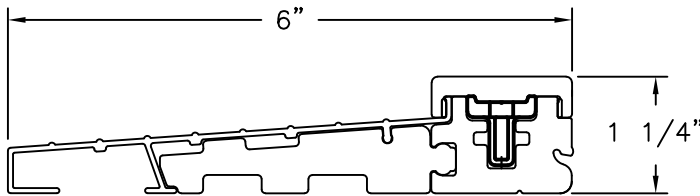
HYBRID HEAD
WOOD/COMPOSITE



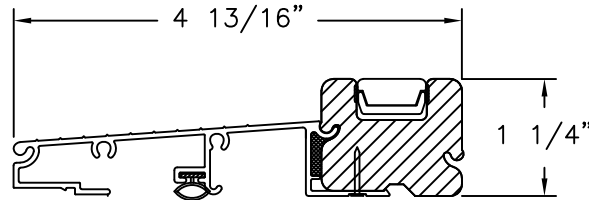
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WOOD/COMPOSITE



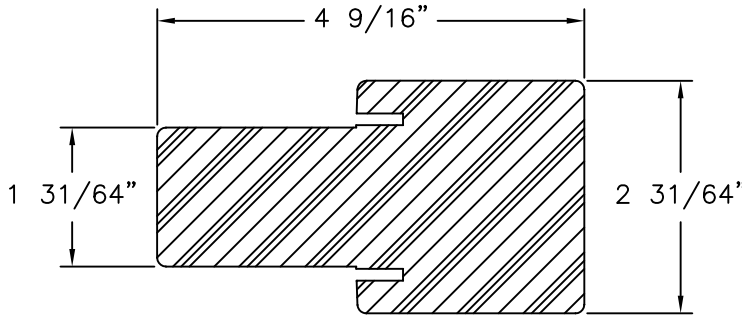
ADA THRESHOLD



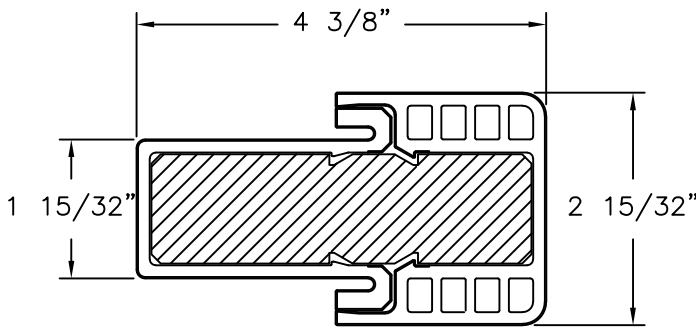
STANDARD INSWING THRESHOLD



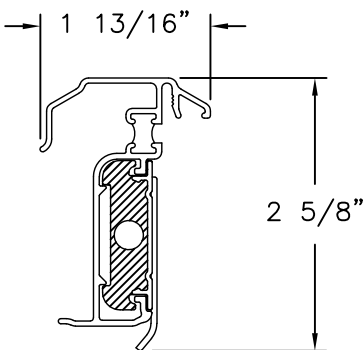
SAHARA INSWING THRESHOLD



FAT BOY MULLION
COMPOSITE

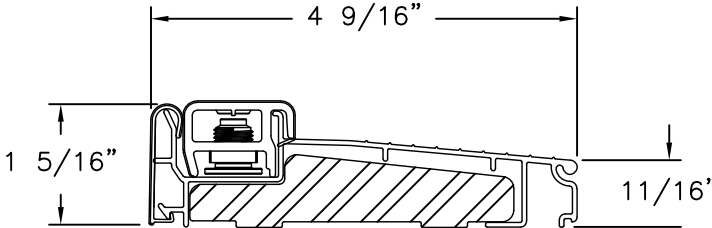


HYBRID FAT BOY MULLION
COMPOSITE

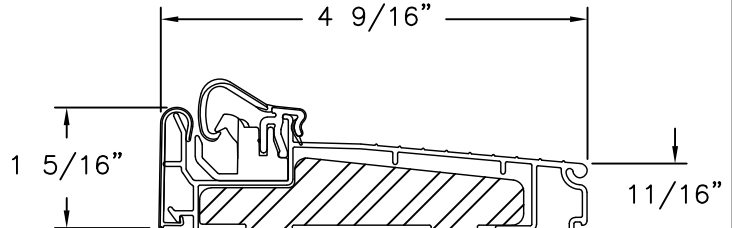


HURRICANE ASTRAGAL DETAIL

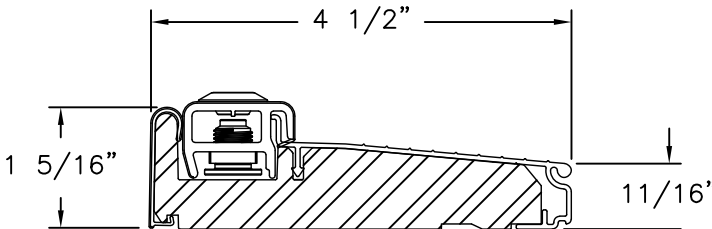
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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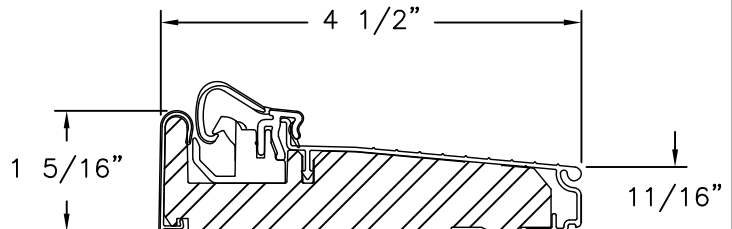
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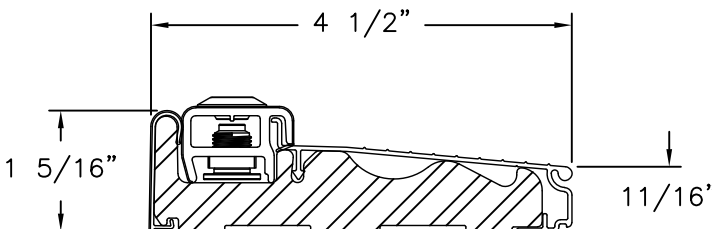
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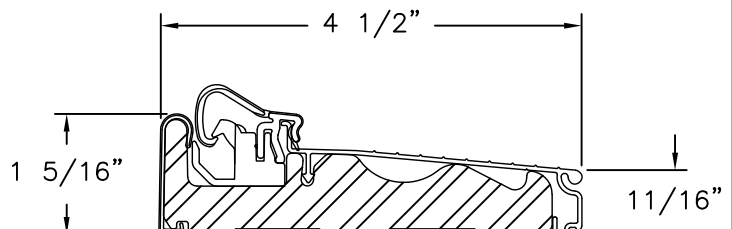
INSWING SILL ZAI4565F



INSWING SILL ZAC4565F



INSWING SILL ZAILH4565



INSWING SILL ZACLH4565

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STEEL INSWING GLAZED DOUBLE DOOR
W/SIDELITE & TRANSOM - IMPACT
COMPONENTS

DRAWN:
J.L.

DWG NO.
08-01968

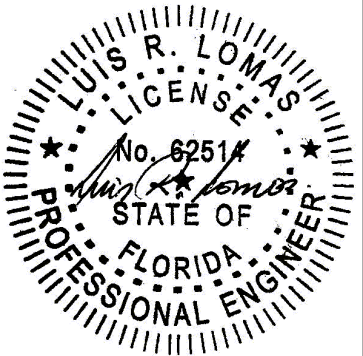
REV
K

SCALE NTS

DATE 04/23/13

SHEET 17 OF 17

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