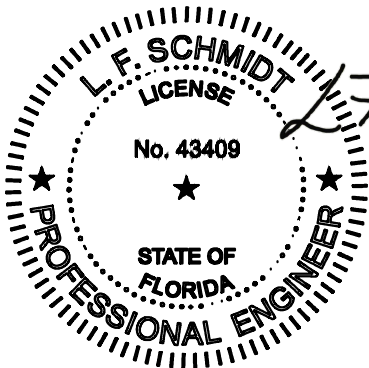




Digitally signed by
Lyndon F Schmidt
Date: 2026.06.17
15:00:04 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

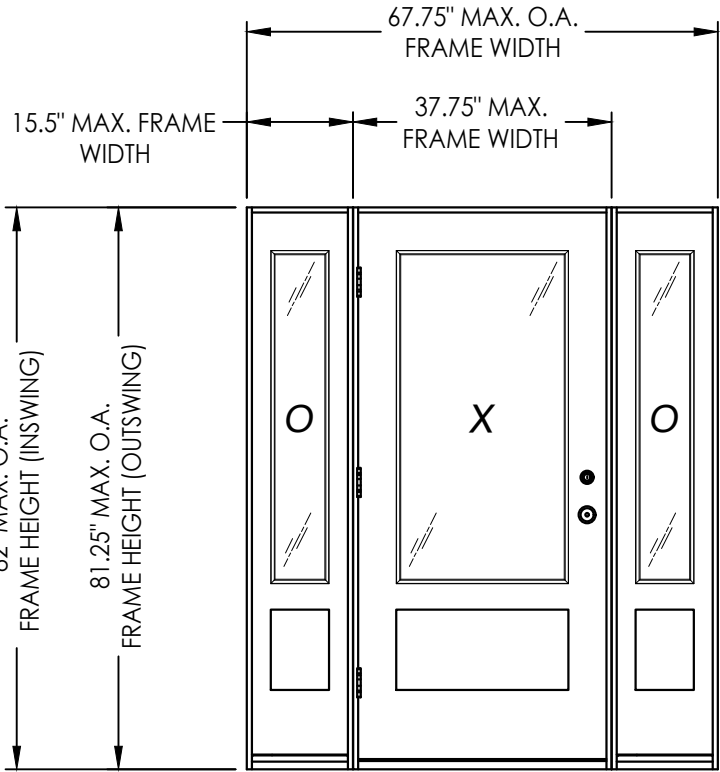
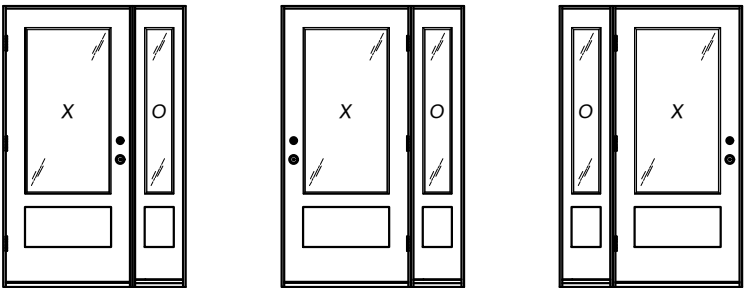
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

"SHAKER"
COMPOSITE EDGE
FLUSH GLAZED FIBERGLASS
SINGLE DOOR w/ SIDELITE(S)
INSWING/OUTSWING
"NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Fiber-Classic & Smooth-Star Door and Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	
1	Typical Elevations, Design Pressures & General Notes	8	Horizontal Cross Sections
2	Door Panel & Glazing Details	9	Vertical Cross Sections (Thresholds)
3	Sidelite Panel & Glazing Details	10	Buck Anchoring
4	Elevations	11	Frame Anchoring
5	Horizontal & Vertical Cross Sections (2X Buck)	12	Hardware Details
6	Horizontal & Vertical Cross Sections (1X Buck)	13	Bill of Materials & Components
7	Horizontal & Vertical Cross Sections (Direct to Masonry)		



CONFIGURATION	JAMB MATERIAL	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OX, XO, OXO	FJ PINE	+55.0	-60.0	+55.0	-55.0
	COMPOSITE	+75.0	-75.0	+75.0	-75.0

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

DATE: 5/06/26

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-48194.2

SHEET 1 OF 13

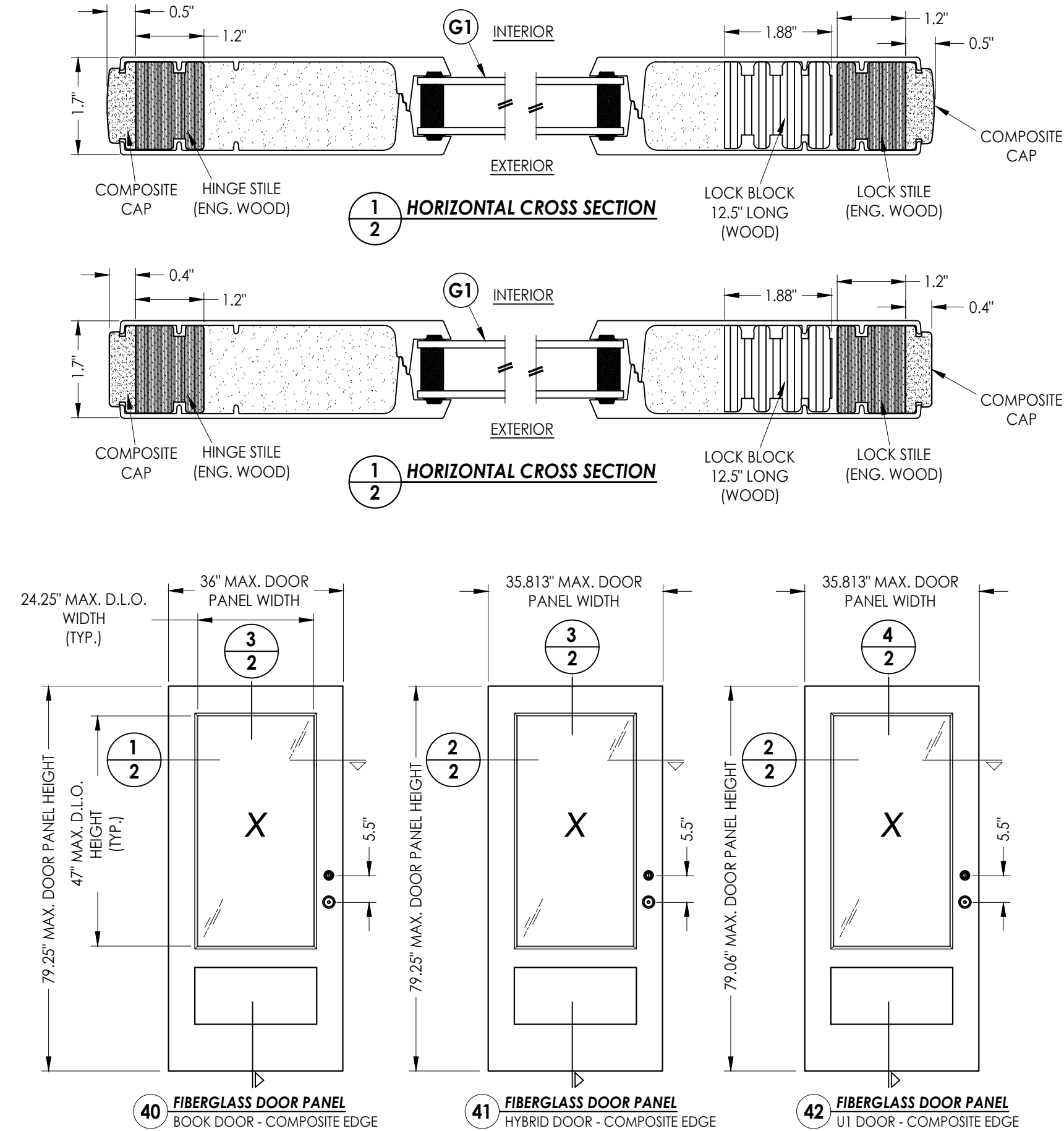
REVISIONS

NO. DATE

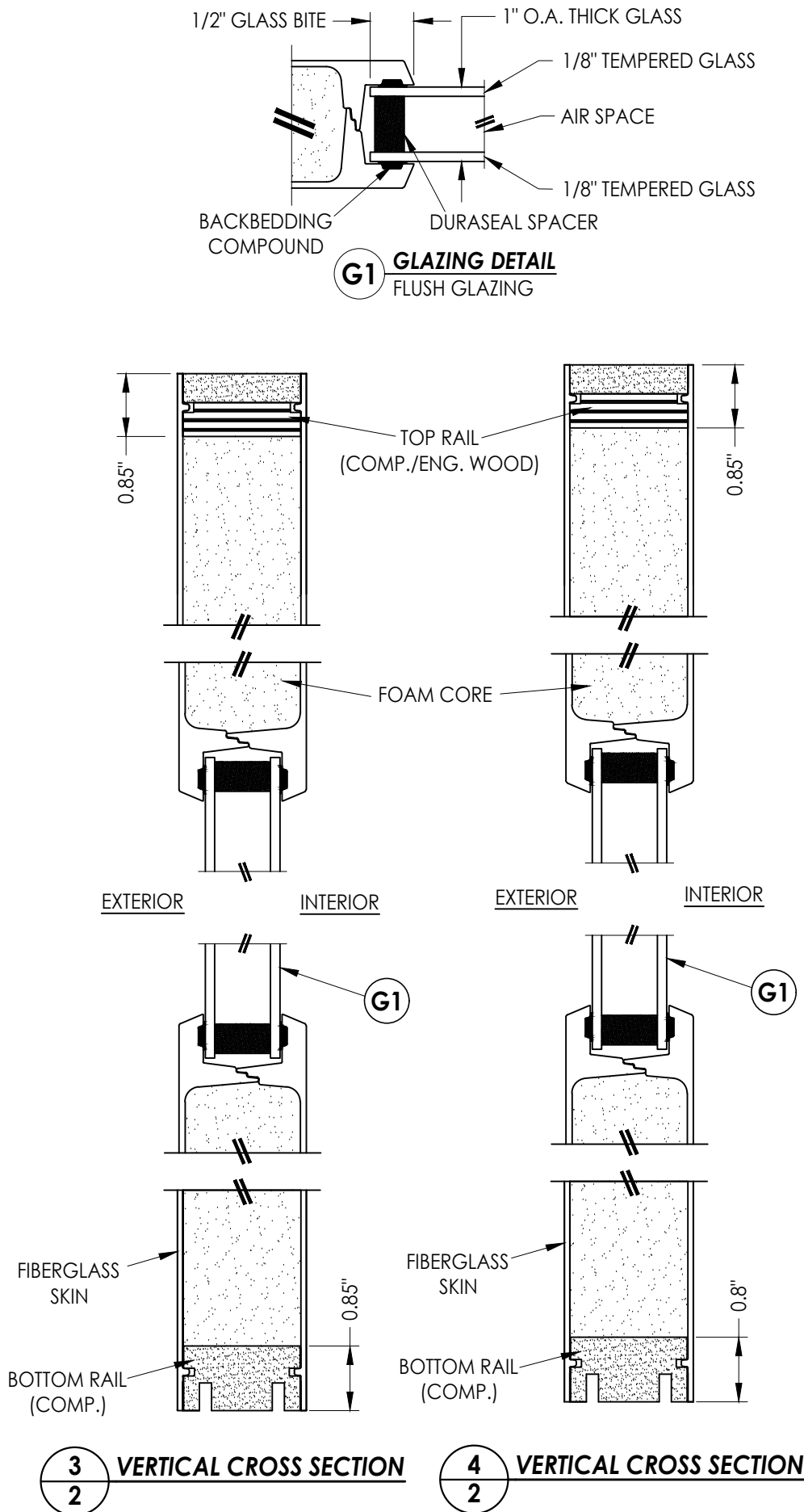
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FIBERGLASS SKIN: 0.065" MIN. THK.
FOAM CORE: POLYURETHANE -1.9 PCF MIN.



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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL
& GLAZING DETAILS

DATE: 5/06/26
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-48194.2
SHEET 2 OF 13

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A horizontal cross-section diagram of a door assembly. The diagram shows the exterior side at the top and the interior side at the bottom. A stile made of wood is shown on the left side. Dimensions are indicated: 0.65" for the width of the stile and 1.7" for the height of the door. A label 'G2' points to the interior side of the door. The text 'STILE (WOOD)' is written below the stile. The text 'HORIZONTAL CROSS SECTION' is written at the bottom, with a circled '1' and '3' to its left.

1/2" GLASS BITE

3/4" THICK GLASS

1/8" TEMPERED GLASS

AIR SPACE

1/8" TEMPERED GLASS

BACKBEDDING COMPOUND

DURASEAL SPACER

G2 GLAZING DETAIL

TOP RAIL (COMP.)

0.6"

FOAM CORE

G2

FIBERGLASS SKIN

0.55"

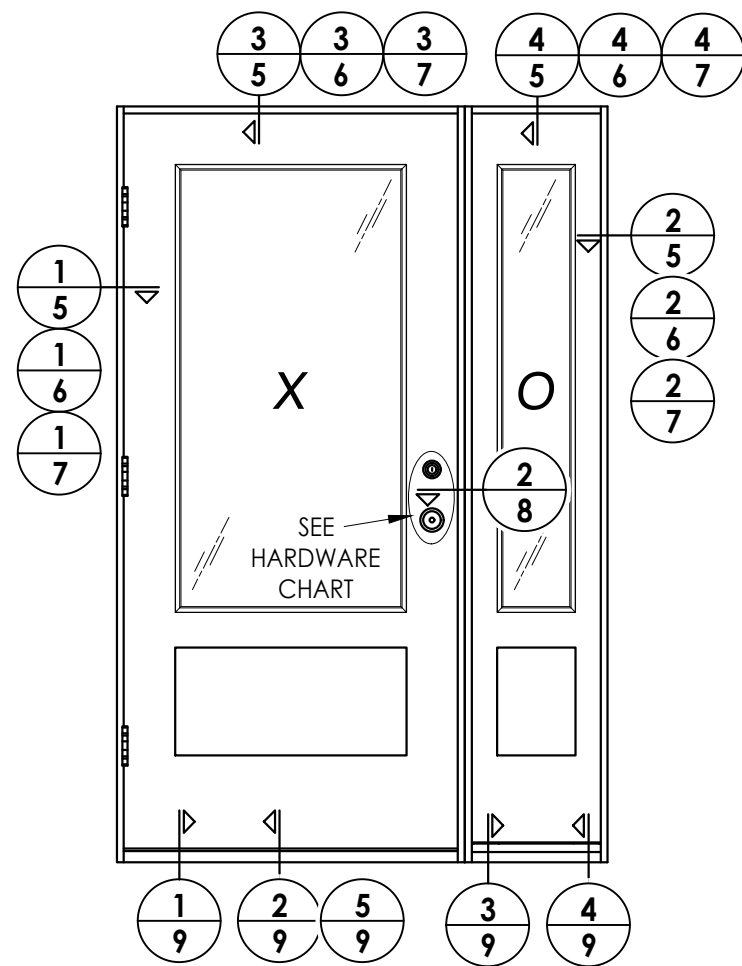
BOTTOM RAIL (COMP.)

2 3 VERTICAL CROSS SECTION

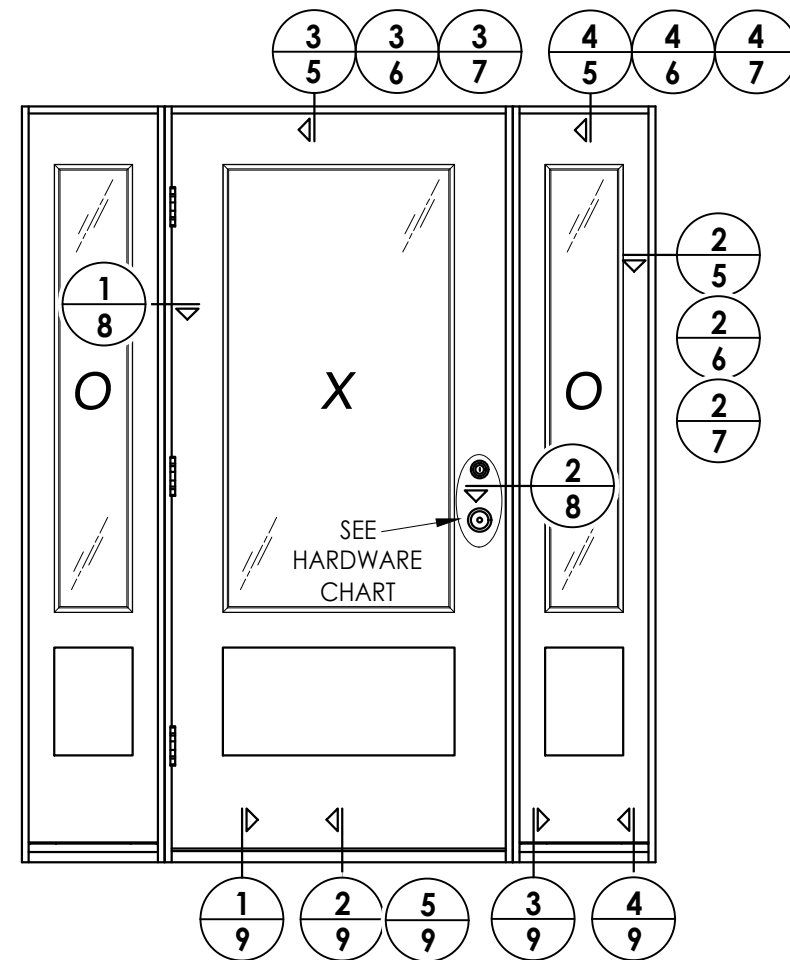
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Lyndon F. Schmidt
P.E. No. 43409

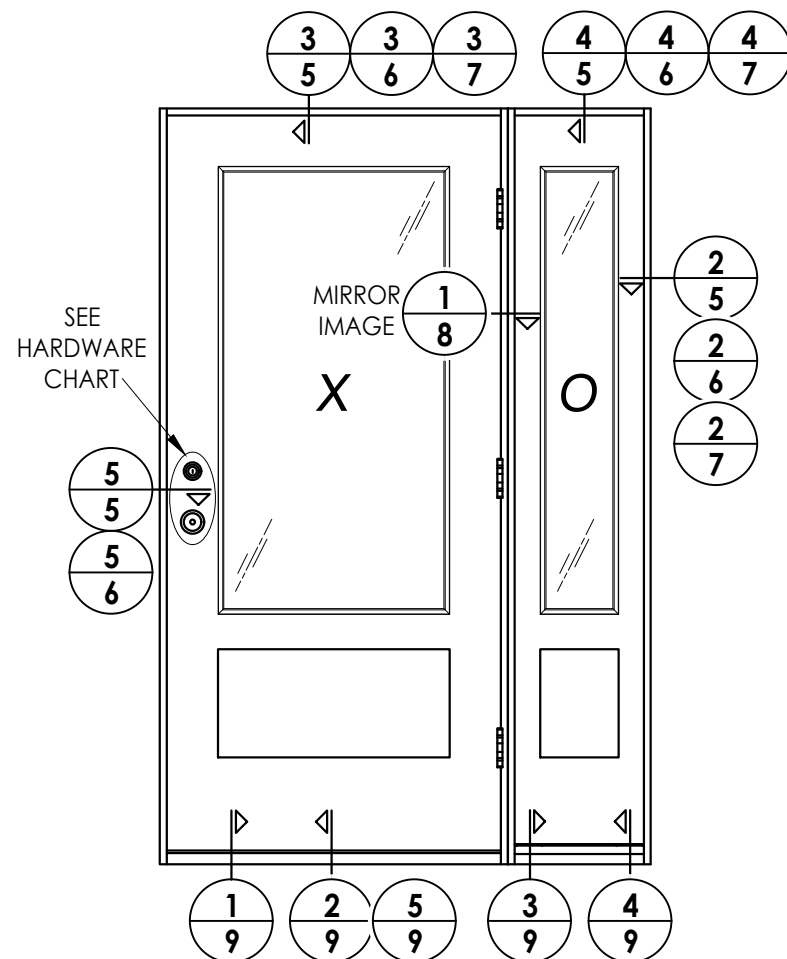
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Phone No.: 813.659.9197
FBPE Registry No. 9813



XO



OXO



XO

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51 DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RAI BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

[illegible]

DATE: 5/06/26

SCALE: N.T.S.

DWG. BY: *LFS*

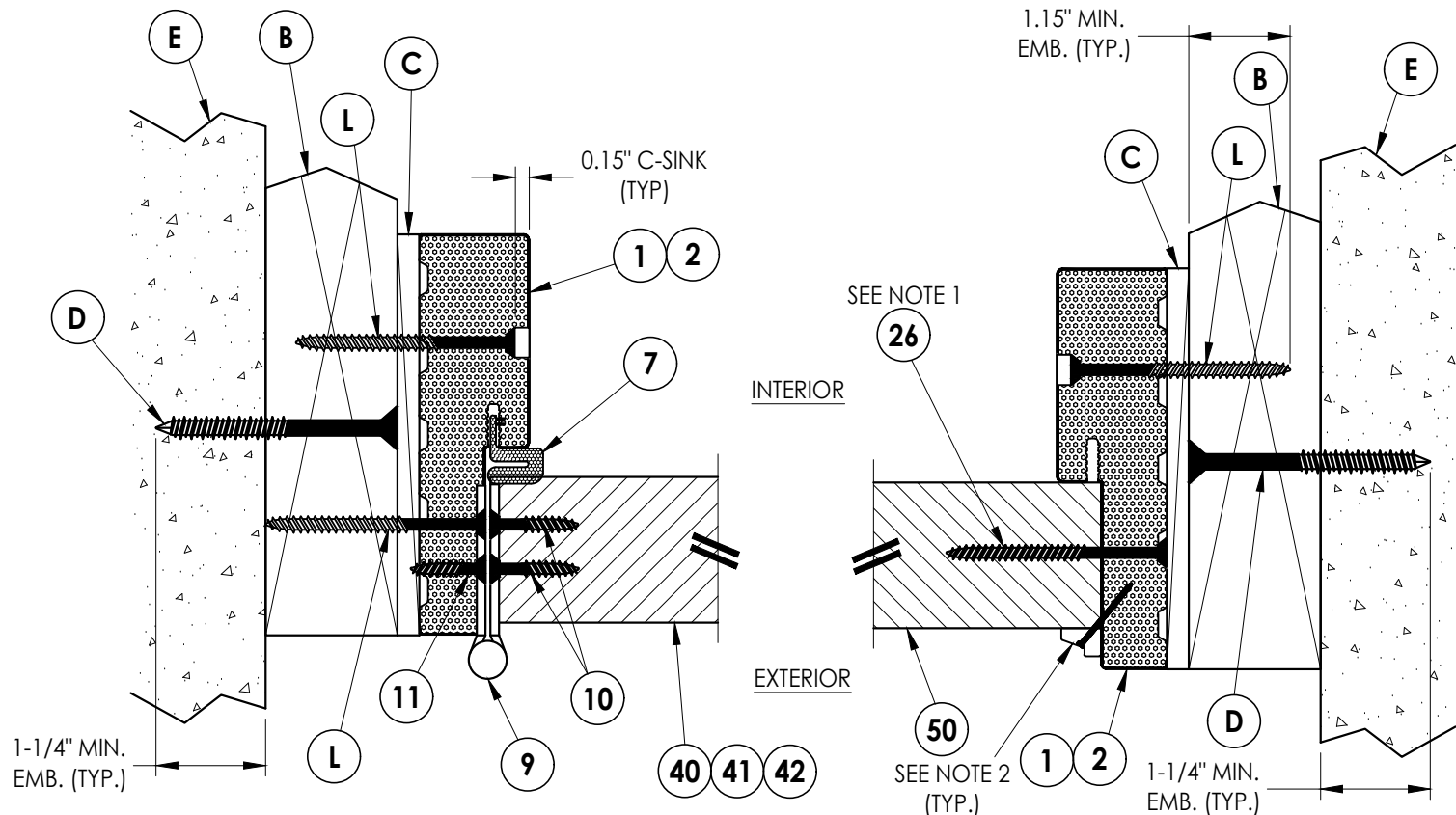
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DRAWING NO.:

FL-48194.2

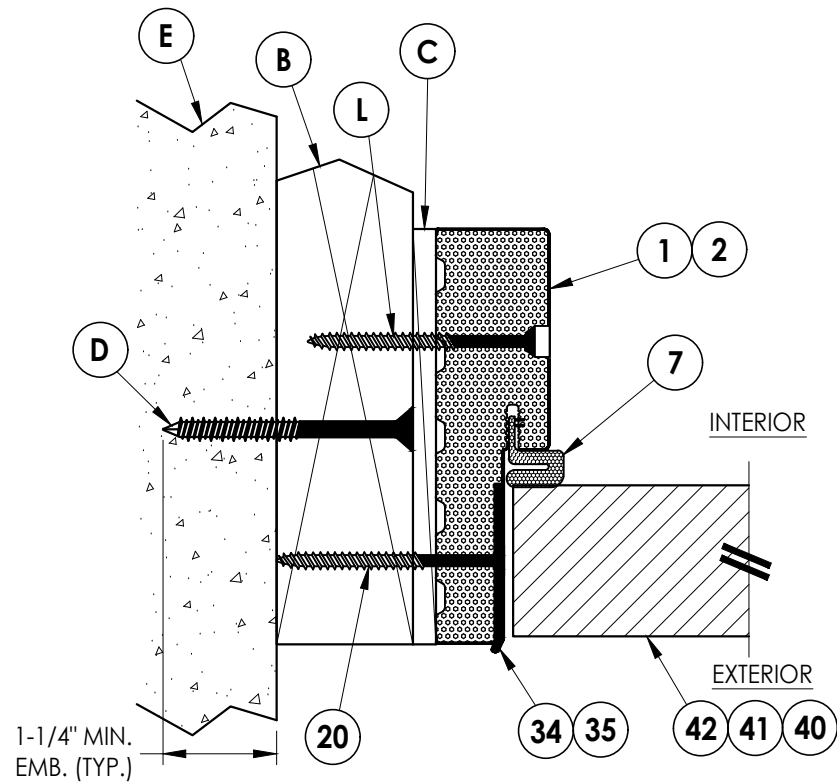
SHEET 4 OF 13

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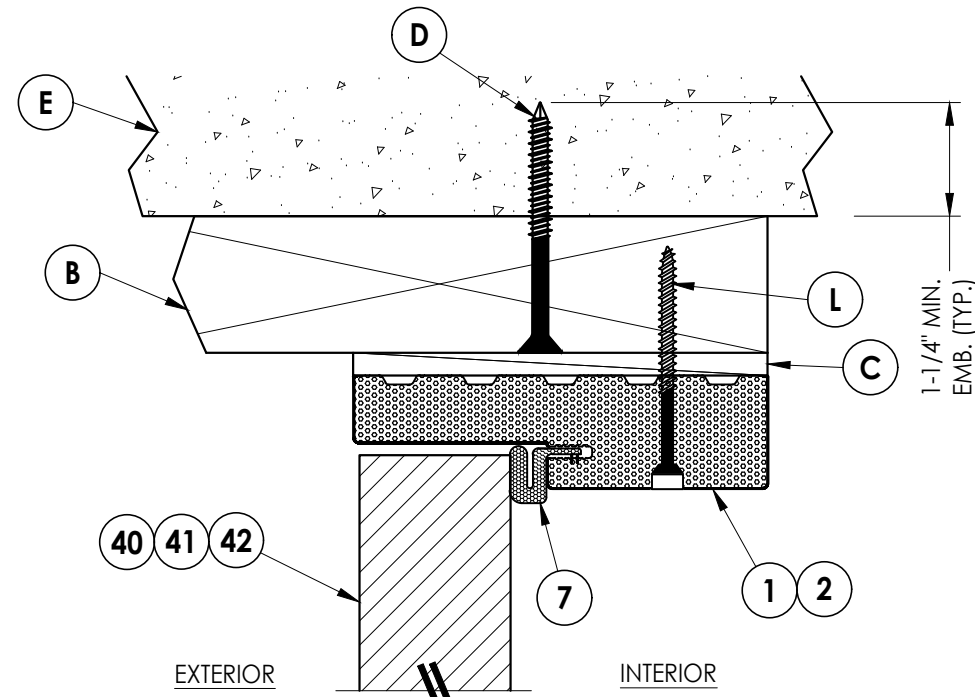


1
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)

2
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)

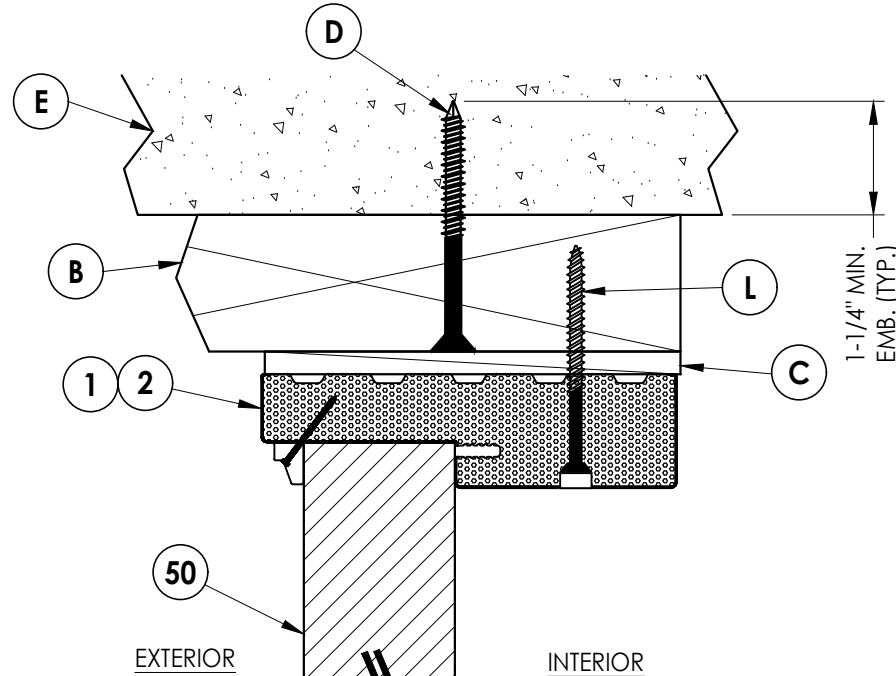


5
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



3
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)

- Notes:
- Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
 - PVC/Wood Moulding secured w/ 16 GA. X 1" brad nails located 1" from ends & 8" o.c. max.



4
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)

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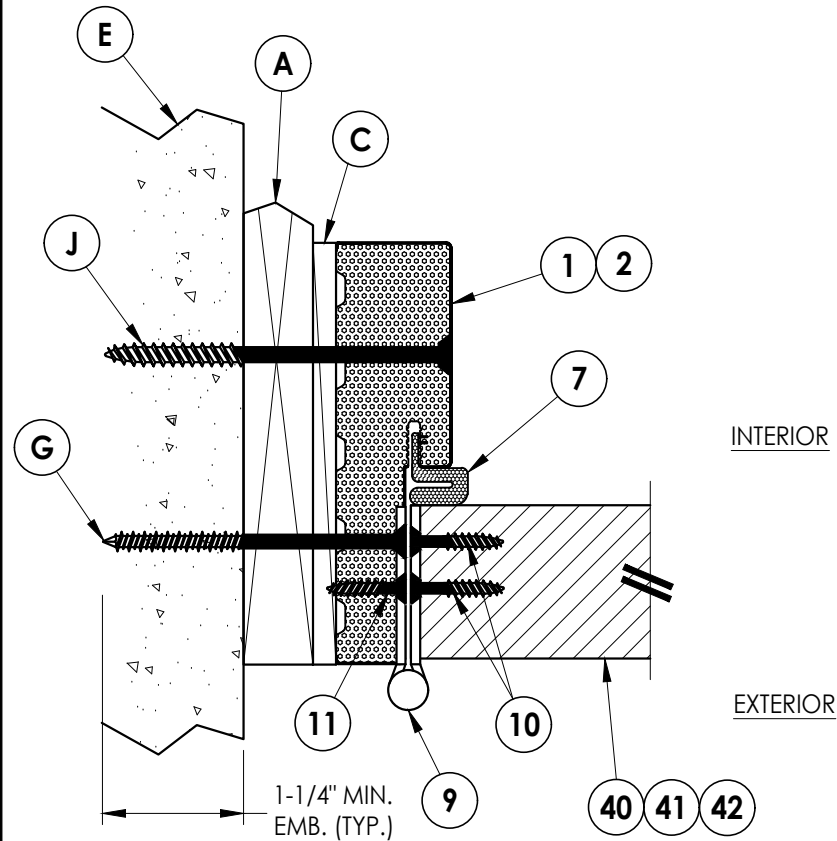
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

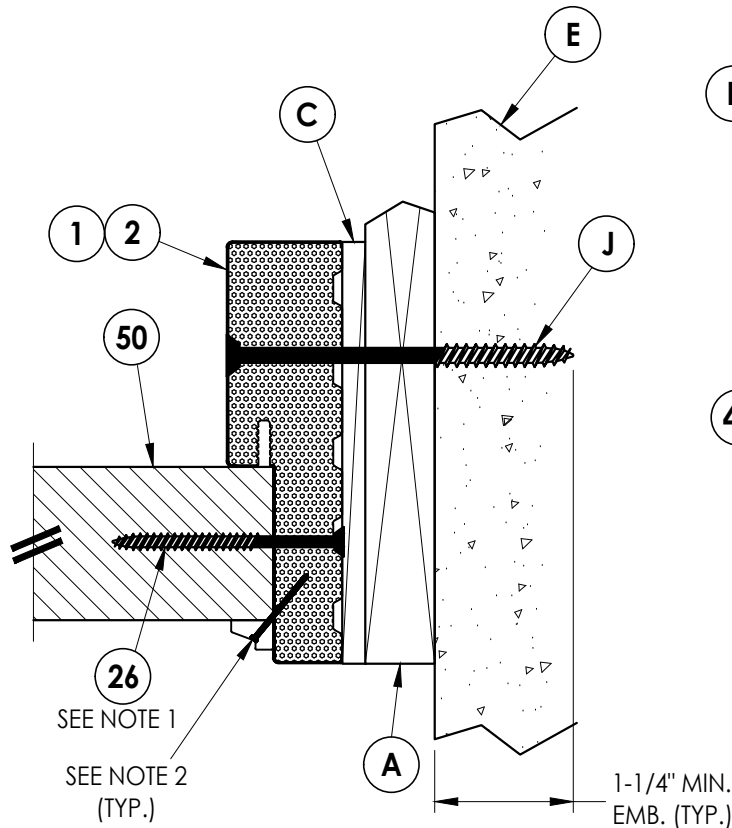
NO.	DATE	REVISIONS	BY

DATE: 5/06/26
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-48194.2
SHEET 5 OF 13

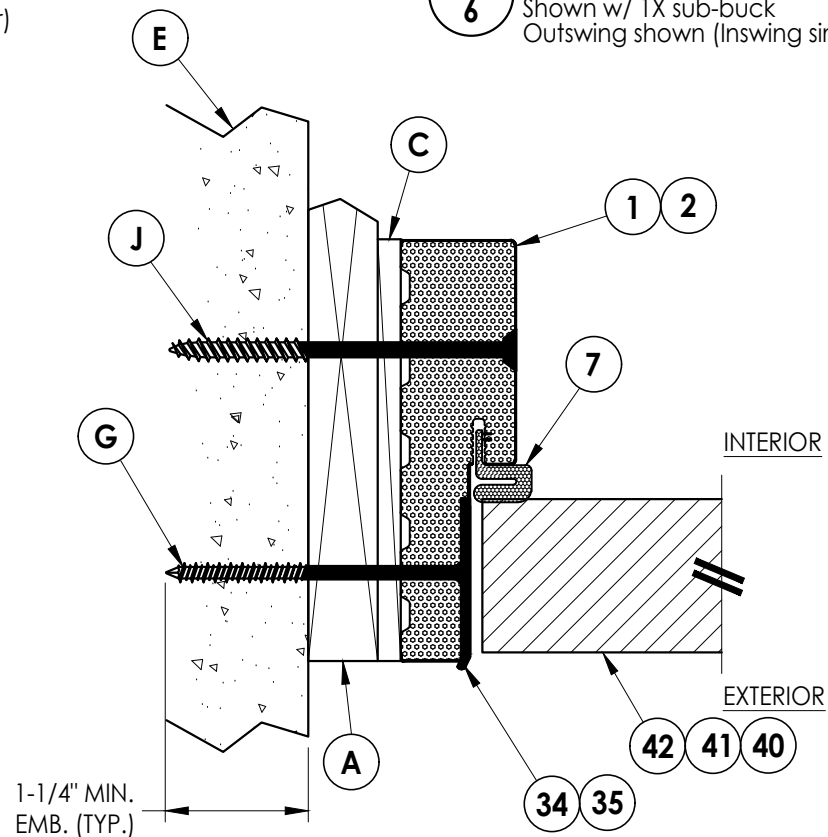
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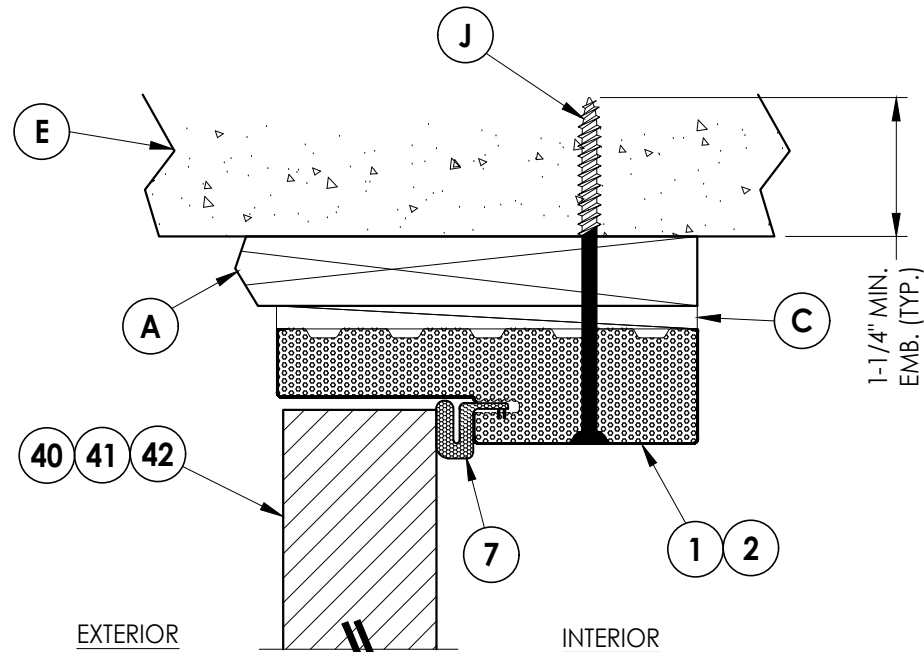
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



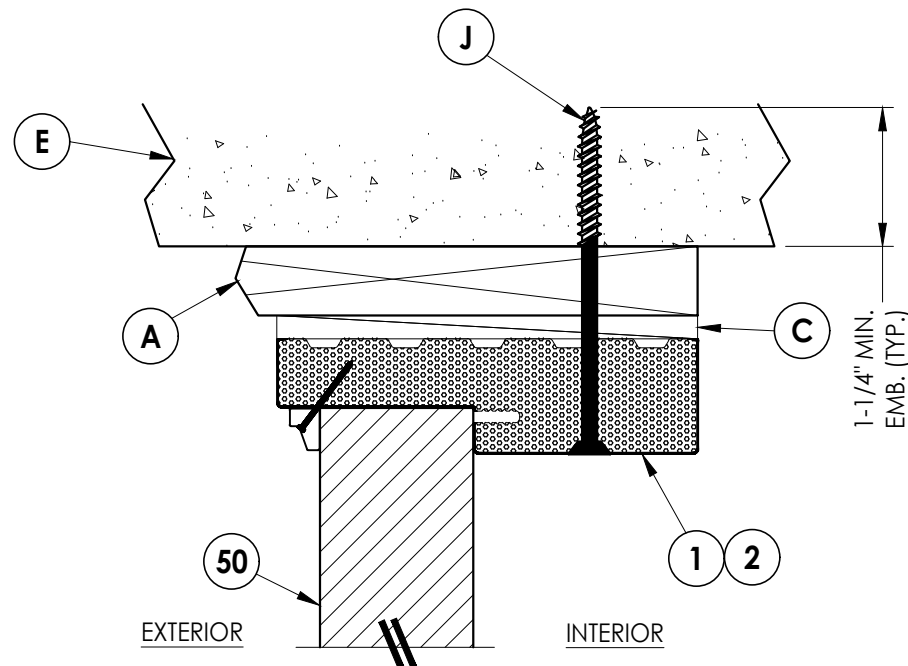
5
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

Notes:

1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
2. PVC/Wood Moulding secured w/ 16 GA. X 1" brad nails located 1" from ends & 8" o.c. max.



4
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

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P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.		DATE	BY	REVISIONS

DATE: 5/06/26

SCALE: N.T.S.

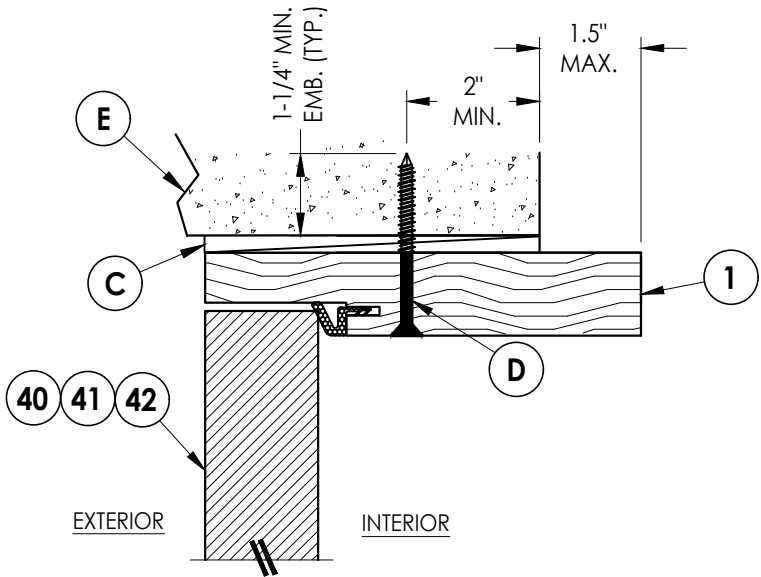
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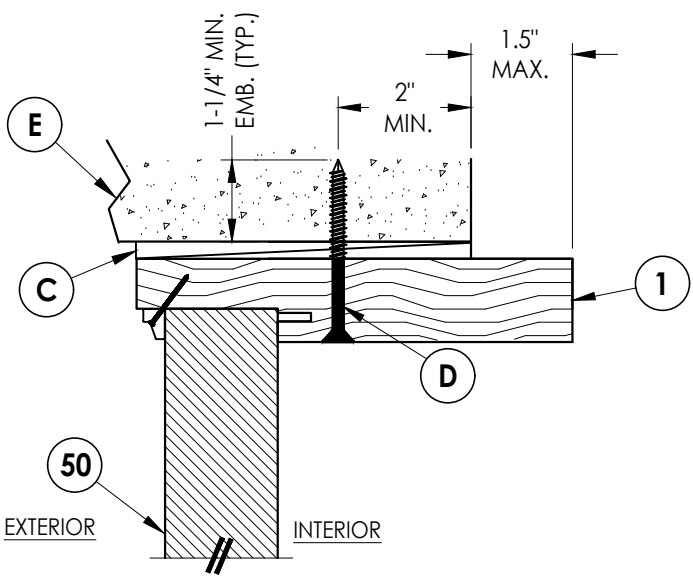
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SHEET 6 OF 13

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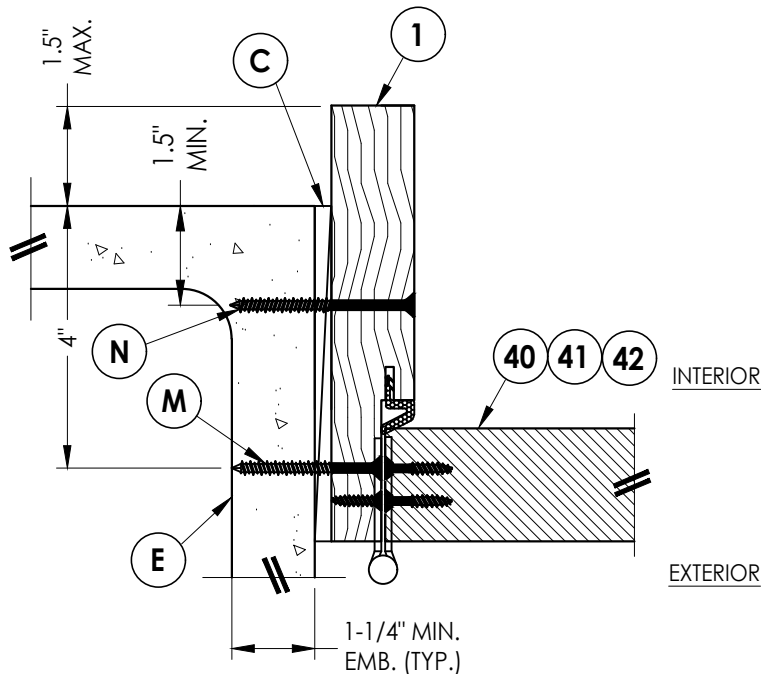


3 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

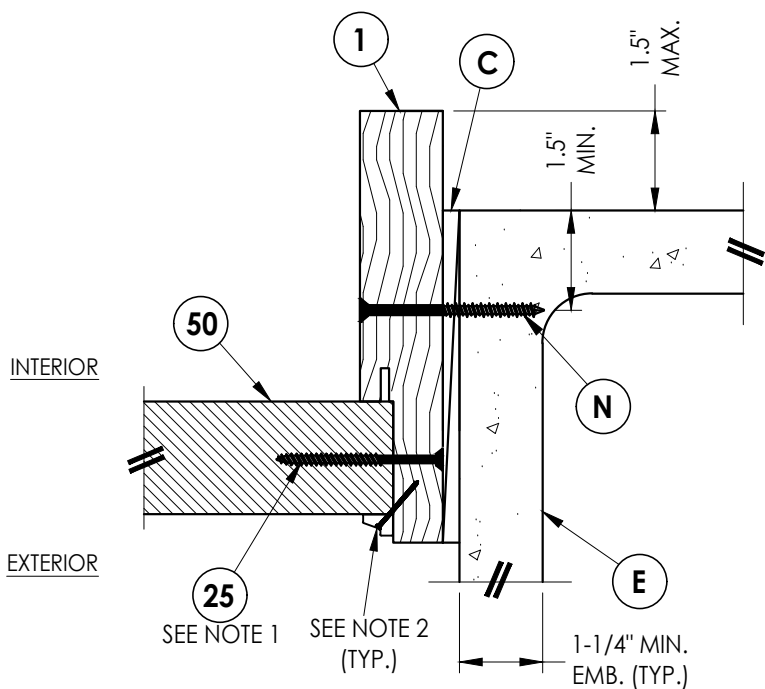


4 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

- Notes:
1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
 2. PVC/Wood Moulding secured w/ 16 GA. X 1" brad nails located 1" from ends & 8" o.c. max.



1 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



2 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: **THERMA-TRU
FIBERGLASS DOOR**

PART OR ASSEMBLY:
**HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)**

NO.	DATE	BY	REVISIONS

DATE: 5/06/26

SCALE: N.T.S.

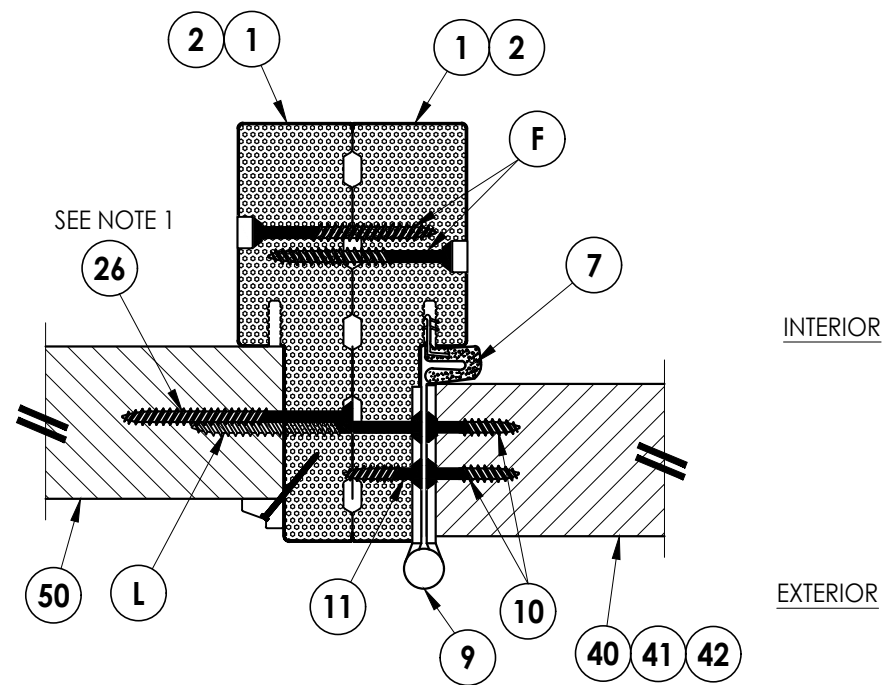
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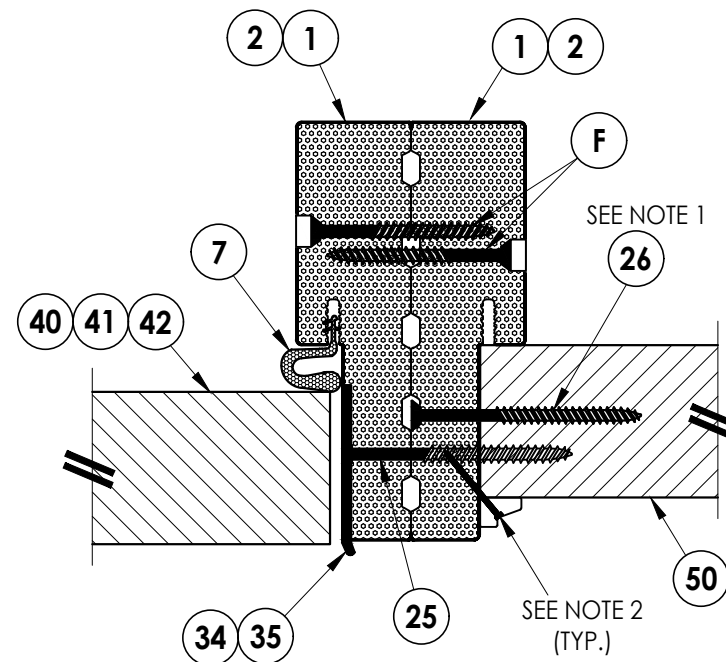
DRAWING NO.:
FL-48194.2

SHEET 7 OF 13

1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
2. PVC/Wood Moulding secured w/ 16 GA. X 1" brad nails located 1" from ends & 8" o.c. max.



1 **HORIZONTAL CROSS SECTION**
8 Outswing shown (Inswing similar)



2 **HORIZONTAL CROSS SECTION**
8 Outswing shown (Inswing similar)

[illegible]

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
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A detailed vertical cross-section diagram of a door threshold assembly. The diagram shows the transition from the exterior floor to the interior floor through a door frame. Key components are labeled with circled numbers: 7 points to the weatherstripping seal; 15 points to the door frame's bottom flange; 40, 41, and 42 point to the exterior floor surface; E points to the exterior finish material; D points to the anchor bolt securing the threshold into the concrete slab; and 2 points to the entire threshold assembly. A dimension line indicates a minimum embedment depth of 1-1/4 inches into the concrete. The text "SEE NOTE 1" is also present.

2 VERTICAL CROSS SECTION

1-1/4" MIN.
EMB. (TYP.)

Diagram illustrating a vertical cross section of a wall assembly, showing the exterior and interior components and their fasteners.

Labels and Callouts:

- EXTERIOR** (Left side)
- INTERIOR** (Right side)
- 40, 41, 42** (Callouts for exterior fasteners)
- 19** (Callout for interior fasteners)
- 16** (Callout for interior insulation)
- SEE NOTE 1** (Callout for exterior insulation)
- SEE NOTE 2** (Callout for interior insulation)
- 1-1/4" MIN. EMB. (TYP.)** (Dimension for exterior fastener embedment)
- I** (Callout for interior insulation)
- E** (Callout for exterior insulation)

5 VERTICAL CROSS SECTION

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Technical drawing of a window frame assembly. The drawing shows a cross-section of the window frame with various dimensions and components labeled.

Dimensions and Labels:

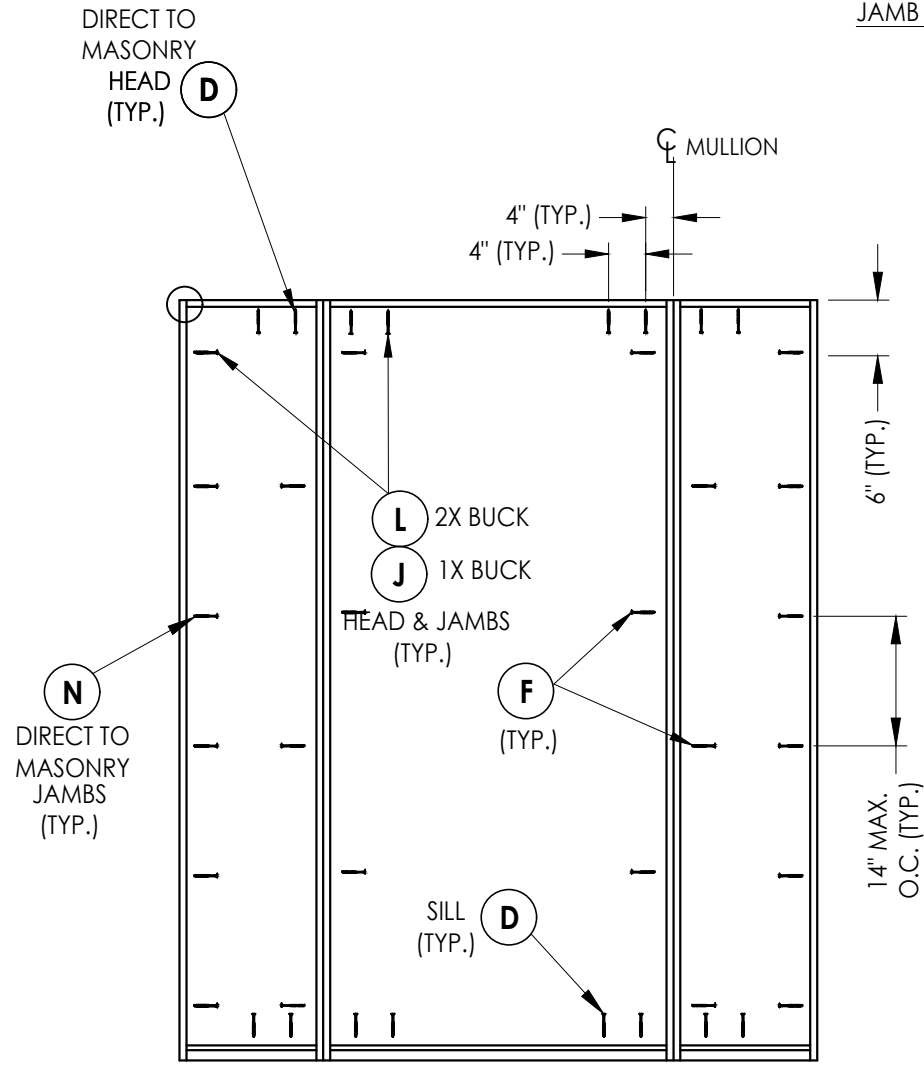
- JAMBS**: Label for the vertical frame components.
- 2" (TYP.)**: Typical dimension for the gap between the jamb and the frame.
- 4" (TYP.)**: Typical dimension for the gap between the frame and the wall.
- 4" (TYP.)**: Typical dimension for the gap between the frame and the wall.
- 4" (TYP.)**: Typical dimension for the gap between the frame and the wall.
- 16" MAX. O.C. (TYP.)**: Maximum on-center spacing for the vertical framing members.
- D**: Label for the window unit.
- HEAD & JAMBS (TYP.)**: Label for the typical head and jamb components.

[illegible]

PRODUCT: THERMA-TRU FIBERGLASS DOOR	PART OR ASSEMBLY: BUCK ANCHORING
--	---

Documents Prepared By:
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Phone No.: 813.659.9197
FBPE Registry No. 9813



OXO

FRAME ANCHORING

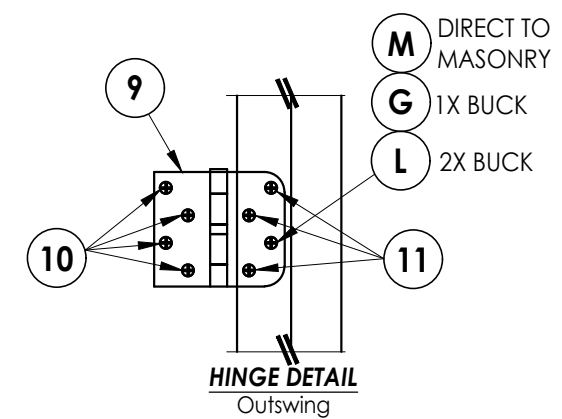
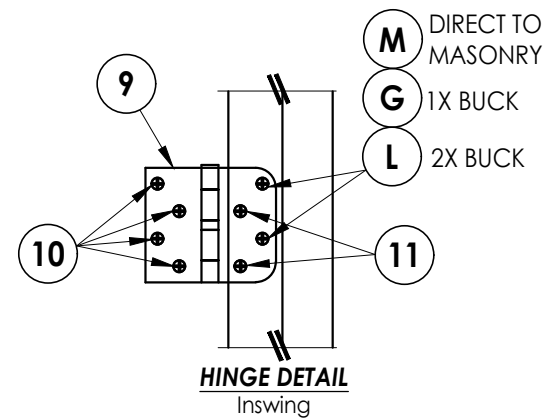
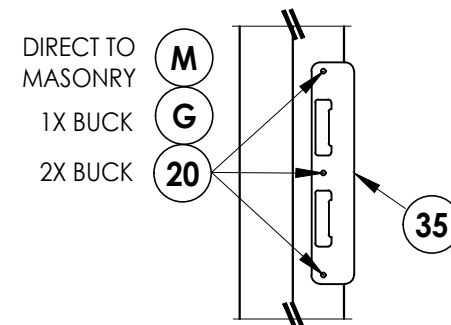
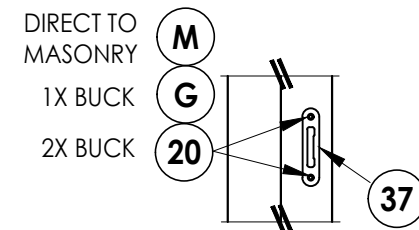
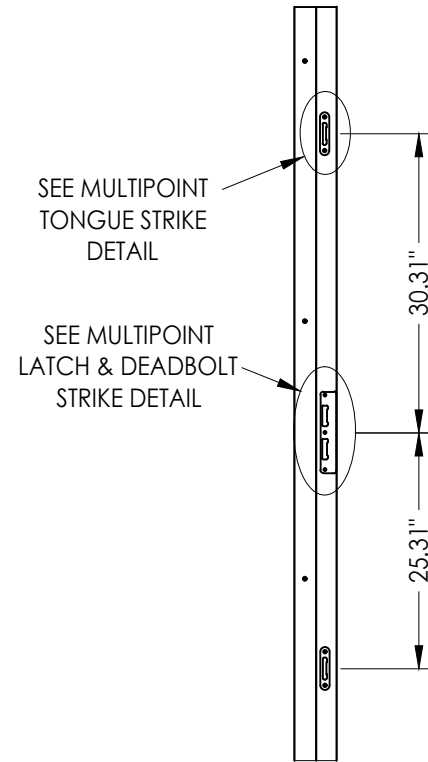
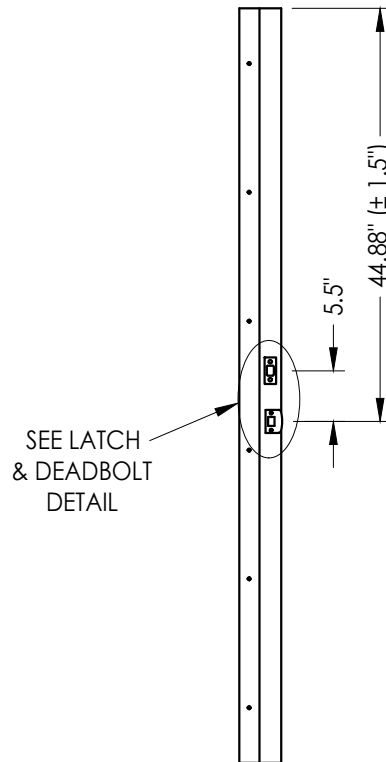
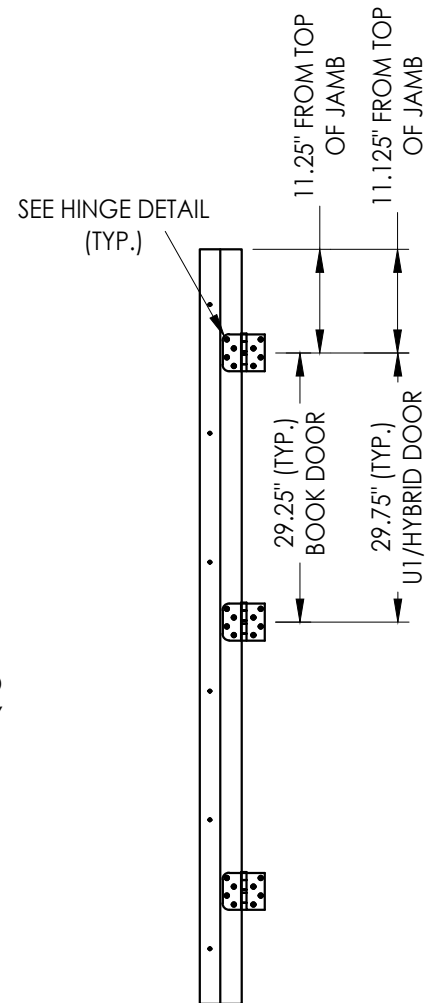
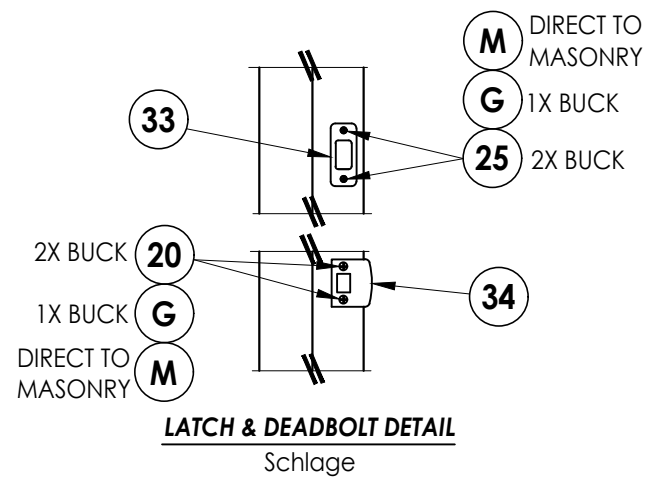
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DATE:	5/06/26
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-48194.2
SHEET	11 OF 13

ASSEMBLY:
FRAME ANCHORING

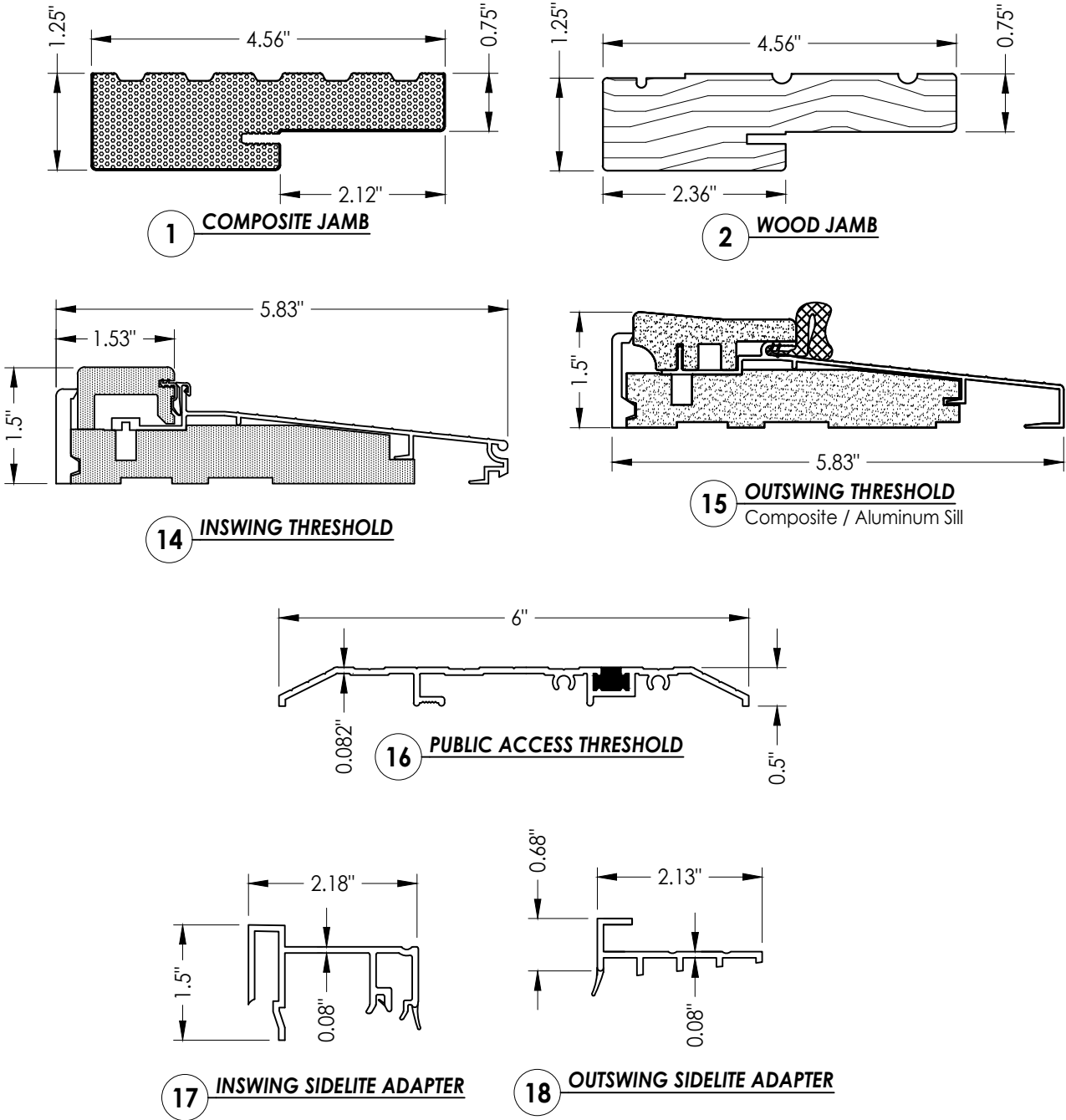
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

[illegible]

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2" PFH WOOD SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL
P	1/4" X 2-3/4" PFH ELCO CONCRETE SCREW	STEEL
1	COMPOSITE JAMB	COMP
2	WOOD JAMB (FINGER JOINT PINE)	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	4" X 4" HINGE	STEEL
10	#10 X 1" PFH WOOD SCREW	STEEL
11	#10 X 3/4" PFH WOOD SCREW	STEEL
14	INSWING THRESHOLD	ALUM/COMP
15	OUTSWING THRESHOLD	ALUM/COMP
16	PUBLIC ACCESS THRESHOLD	ALUM
17	INSWING SIDELITE ADAPTER	VINYL
18	OUTSWING SIDELITE ADAPTER	VINYL
19	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 2-1/2" PFH DEEP THREAD WOOD SCREW	STEEL
30	#12 X 2-1/2" PFH WOOD SCREW	STEEL
31	#8 X 3/4" PFH WOOD SCREW	STEEL
33	DEADBOLT STRIKE PLATE	STEEL
34	LATCH STRIKE PLATE	STEEL
35	MULTIPOINT LATCH STRIKE PLATE	STEEL
37	MULTIPOINT TONGUE STRIKE PLATE	STEEL
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE PANEL	-



CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	AS SHOWN

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

REVISIONS

DATE: 5/06/26

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-48194.2

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