

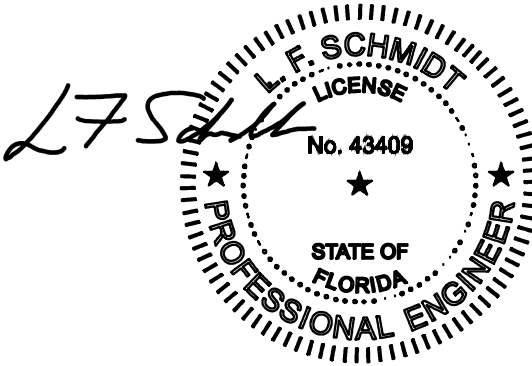


"Gulf Armor"
WOOD GLAZED OR OPAQUE
DOUBLE DOOR
w/ or w/out SIDELITES
INSWING/OUTSWING
"IMPACT"

GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including 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 the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
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. Outswing configurations meet water infiltration requirements for "HVHZ".
7. Inswing configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

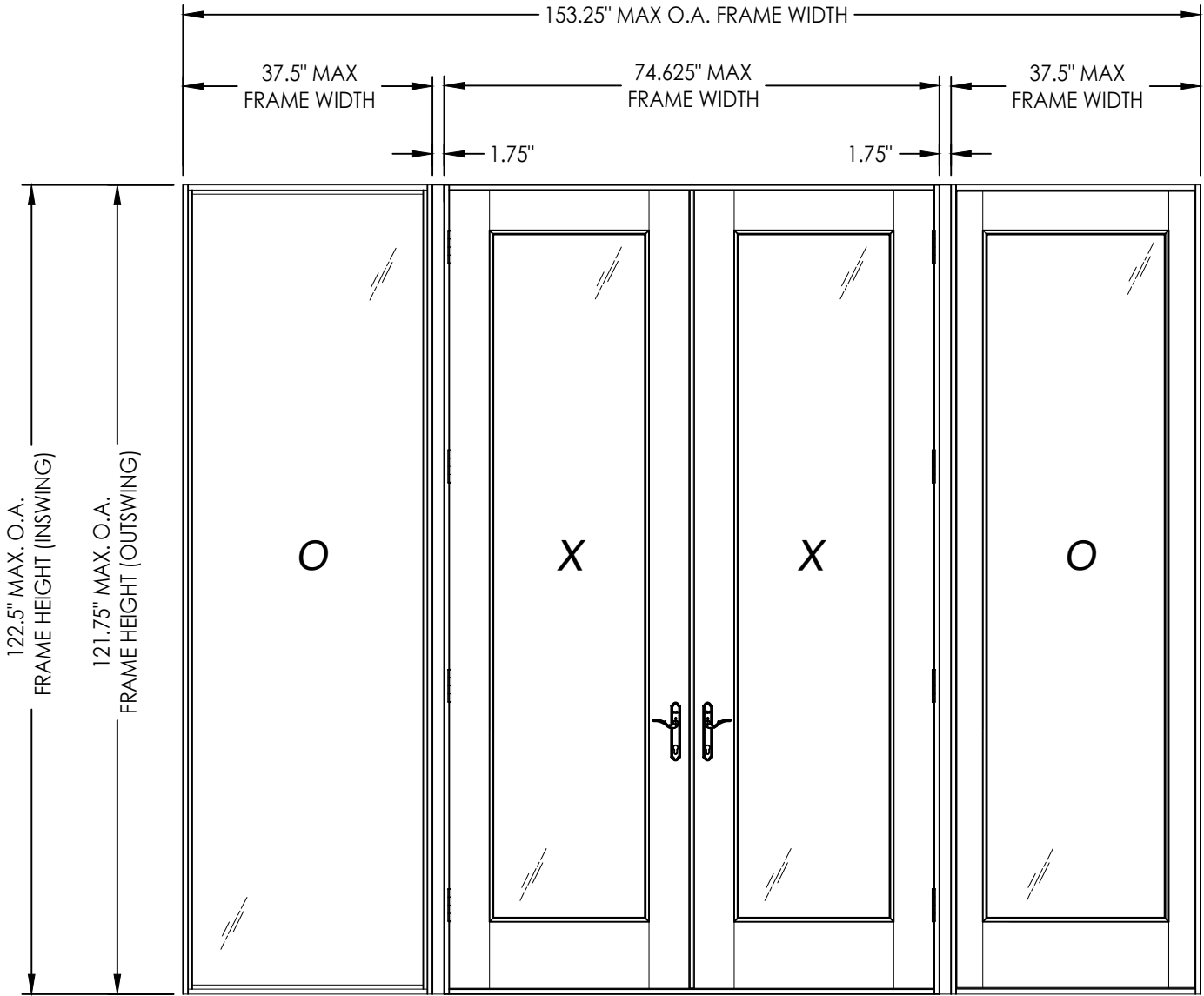
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12	Frame Anchoring
13	Hardware Details
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Digitally signed by
Lyndon F Schmidt
Date: 2023.10.18
12:12:42 -04'00'

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



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX, OXXO	+60.0	-60.0	+60.0	-60.0

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

PRODUCT:
Builders FirstSource
WOOD DOOR

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-22347.9

SHEET 1 OF 14

Part or Assembly:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-22347.9

SHEET 1 OF 14

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

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2.25"

STILE

P1

Diagram illustrating the dimensions and components of a double door unit:

- Dimensions:**
 - 36" MAX. PANEL WIDTH
 - 120" MAX. PANEL HEIGHT
 - 73.75" MAX. D.L.O. HEIGHT
 - 22.75" MAX. D.L.O. WIDTH
- Callouts:**
 - 1/2 (Top Left)
 - 2/2 (Bottom Left)
 - 3/2 (Top Right)
 - 4/2 (Bottom Right)
- Labels:**
 - GLAZED OR OPAQUE
 - OPAQUE
 - X

Diagram illustrating the dimensions and labels for a full panel/lite:

- 36" MAX. PANEL WIDTH**: Dimension across the top of the panel.
- 102.75" MAX. D.L.O. HEIGHT**: Dimension along the left side of the panel.
- 22.75" MAX. D.L.O. WIDTH**: Dimension across the middle of the panel.
- Labels and Markings**:
 - 1/2**: Label on the left side.
 - 3/2**: Label at the top center.
 - G2**: Label in the center, with **GLAZED OR OPAQUE** text below it.
 - X**: Large 'X' mark in the center.
 - 5/2**: Label at the bottom center.
- FULL PANEL/LITE**: Label at the bottom of the diagram.

Technical drawing of a wooden railing assembly, showing two views: a side elevation and a cross-section.

Side Elevation View (Left):

- Overall height: 10.625"
- Labels: MID RAIL, 5/8" Ø x 4" DOWELS (TYP.), BOTTOM RAIL.

Cross-Section View (Right):

- Overall width: 2.25"
- Labels: G1 (Top Rail), P1 (Post).

6.625"

TOP RAIL

G1 G2

3
2 **VERTICAL CROSS SECTION**

10.625"

G2

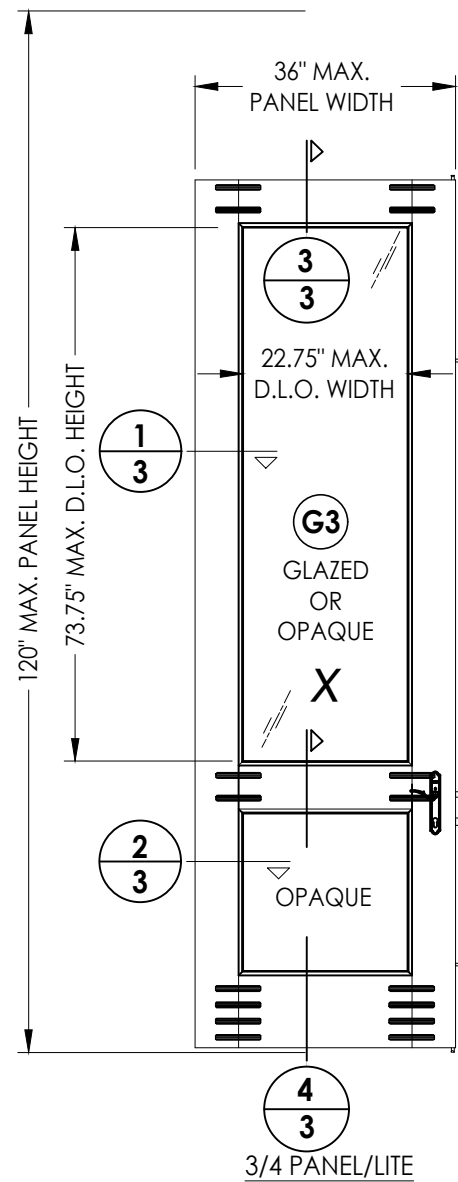
BOTTOM RAIL

2.25"

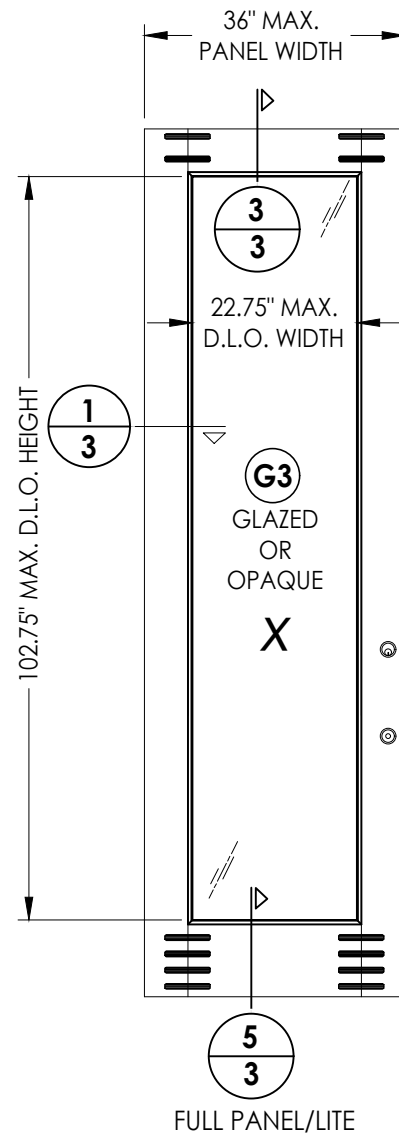
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Technical drawing of a wooden handle (Stile) with dimensions 6.625 inches in length and 2.25 inches in diameter. The handle is shown with a cross-section view on the right, labeled P2.

2 HORIZONTAL CROSS SECTION

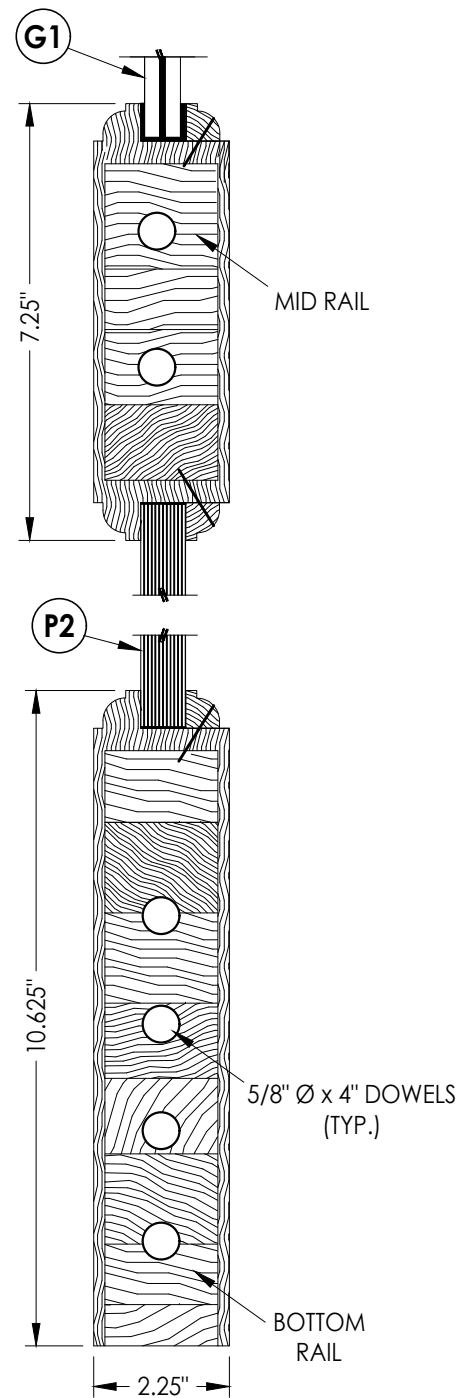


41 **WOOD DOOR PANEL (3'-0")**
Glazed or Opaque

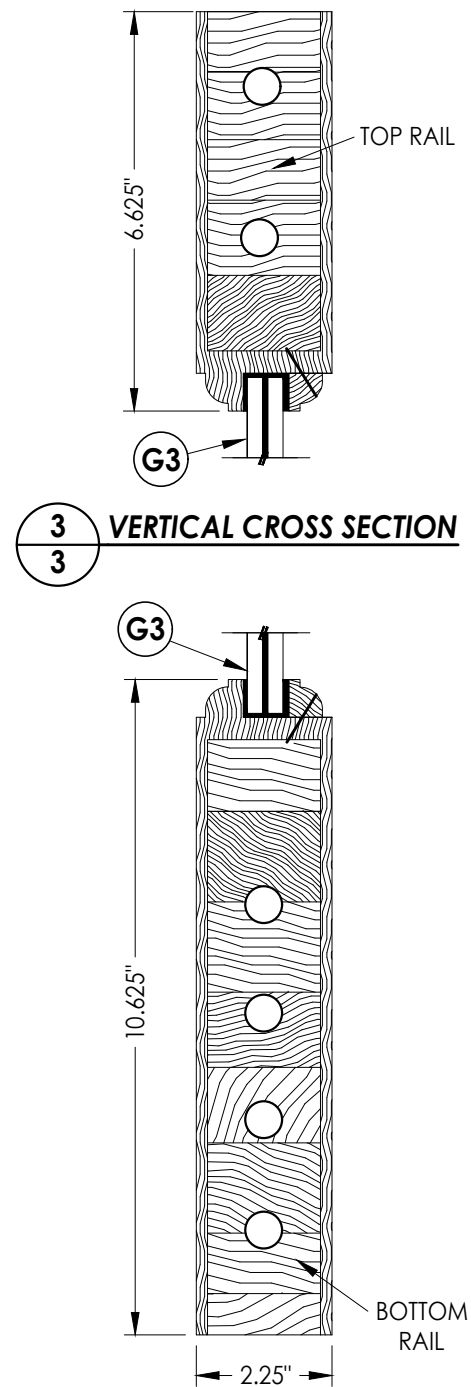


FULL PANEL/LITE

OTHER OPTIONAL HARDWOOD SPECIES w/ $G \geq 0.42$.



4 VERTICAL CROSS SECTION
3



5 **VERTICAL CROSS SECTION**

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

PRODUCT: Builders FirstSource
WOOD DOOR

PART OR ASSEMBLY:

[illegible]

DATE: 5/10/17

SCALE: N.T.S.

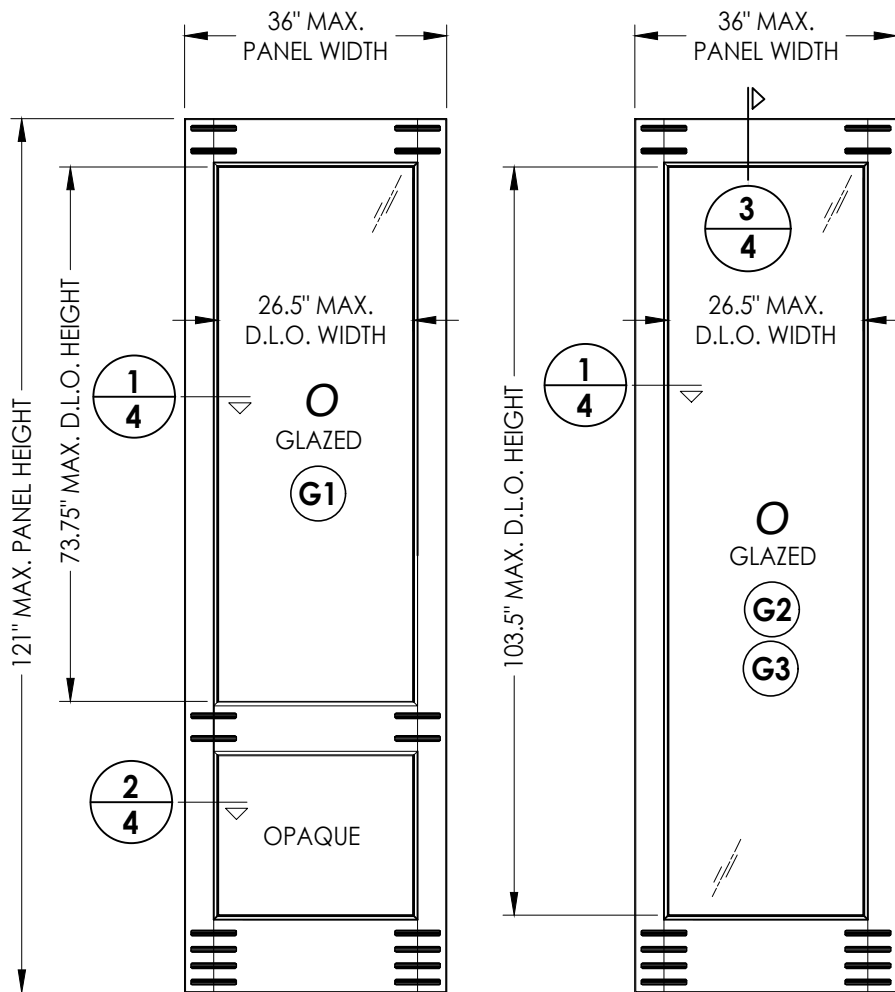
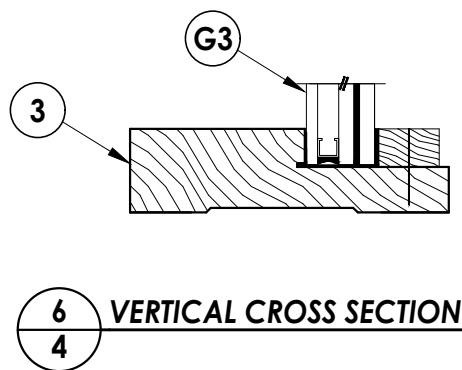
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CHK. BY: LFS

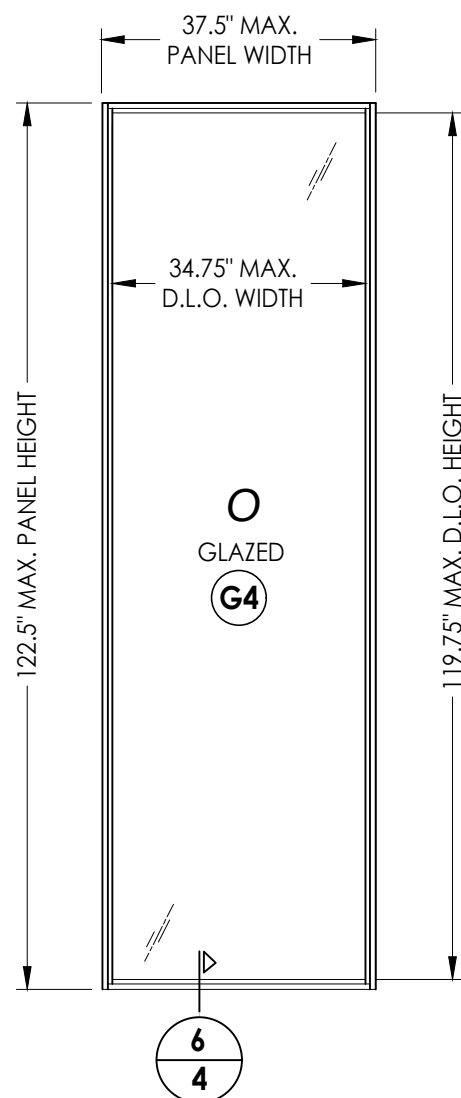
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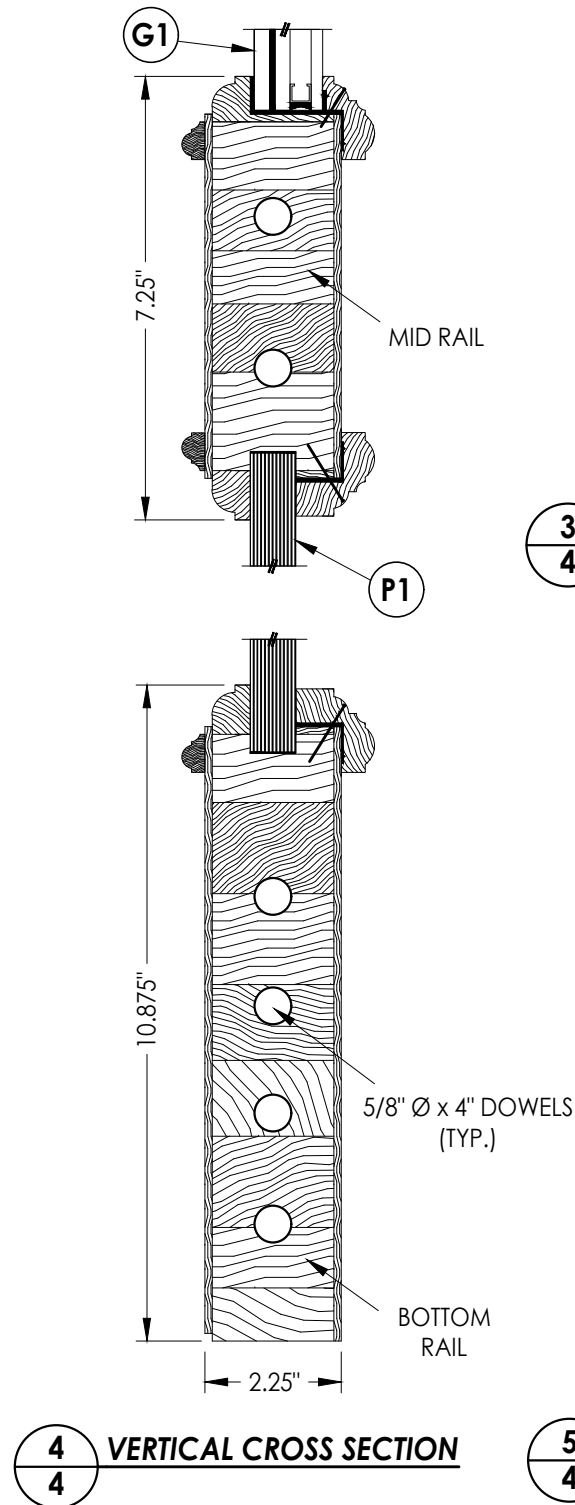
SHEET 3 OF 14



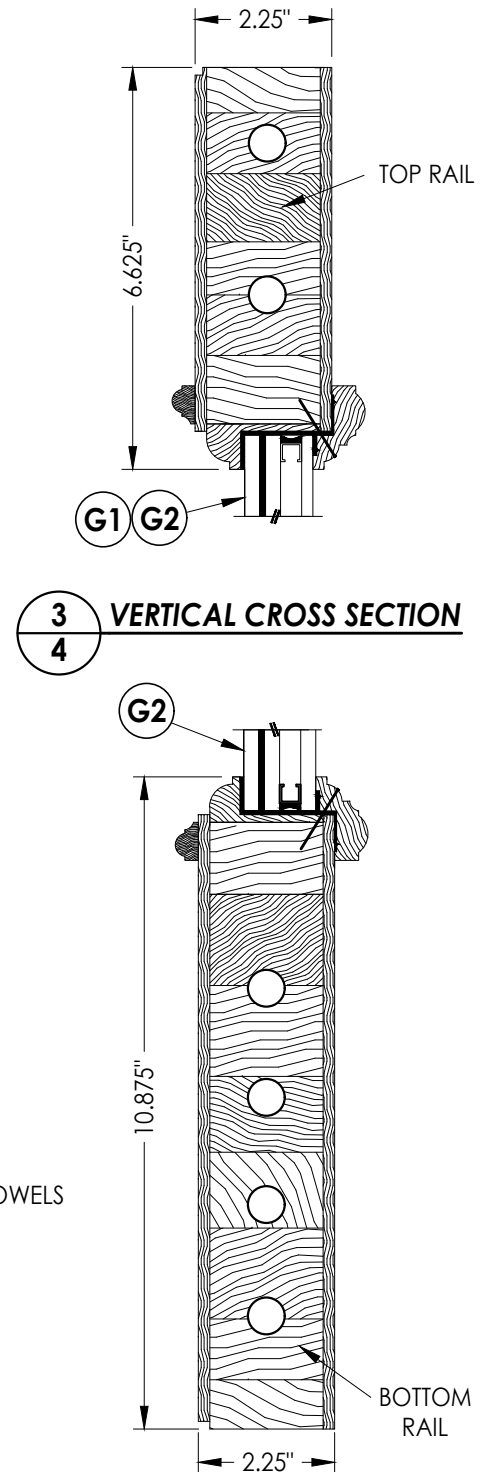
50 WOOD SIDELITE PANEL (3'-0")



51 WOOD SIDELITE PANEL (3'-0")
DIRECT SET



VERTICAL CROSS SECTION



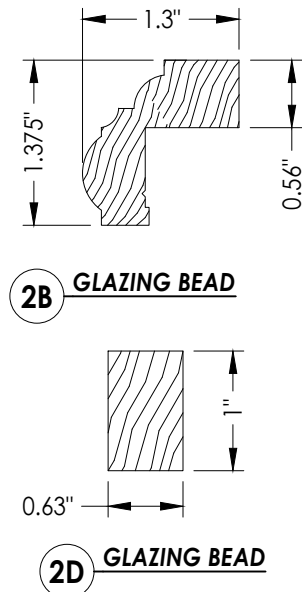
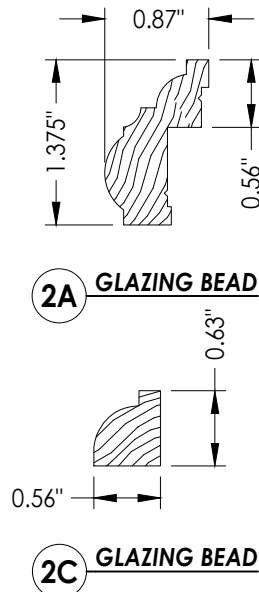
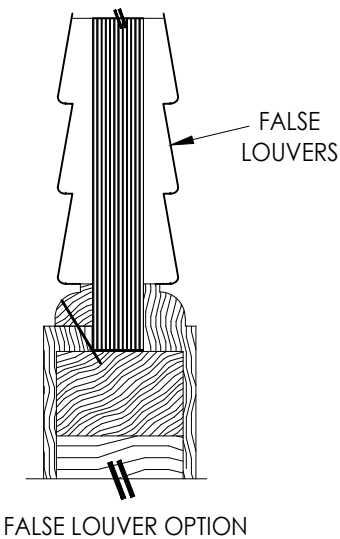
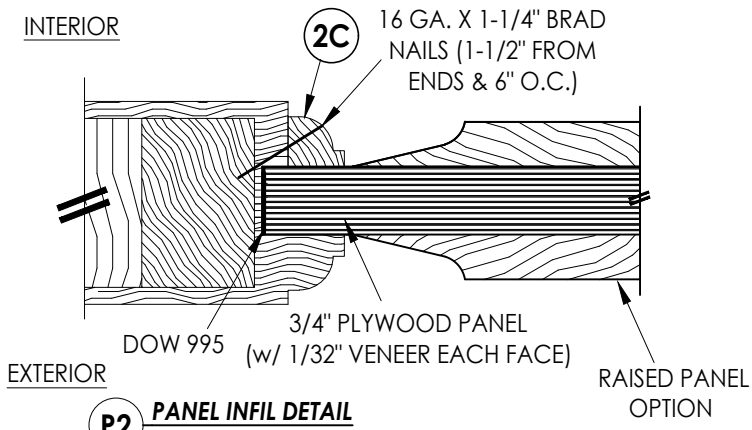
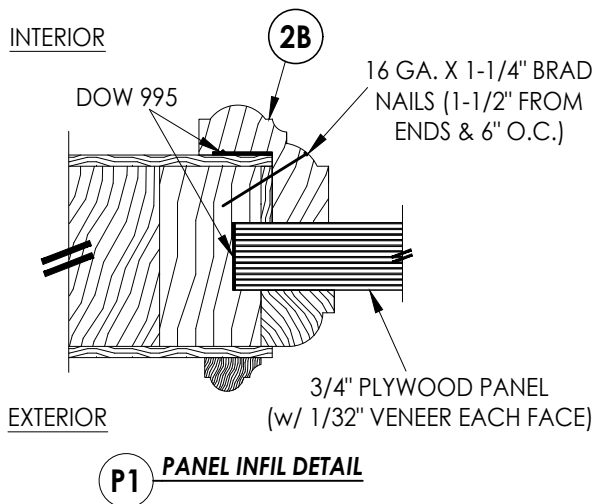
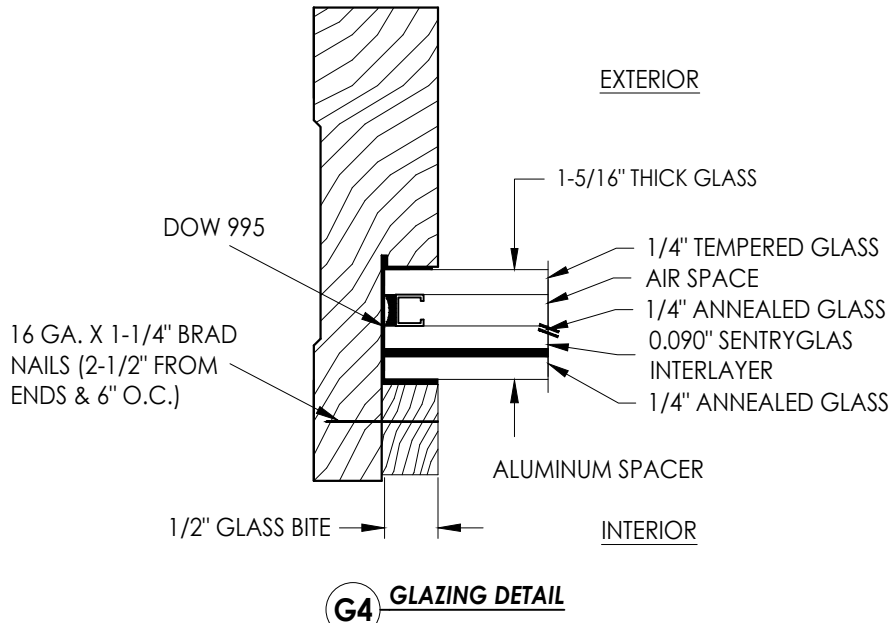
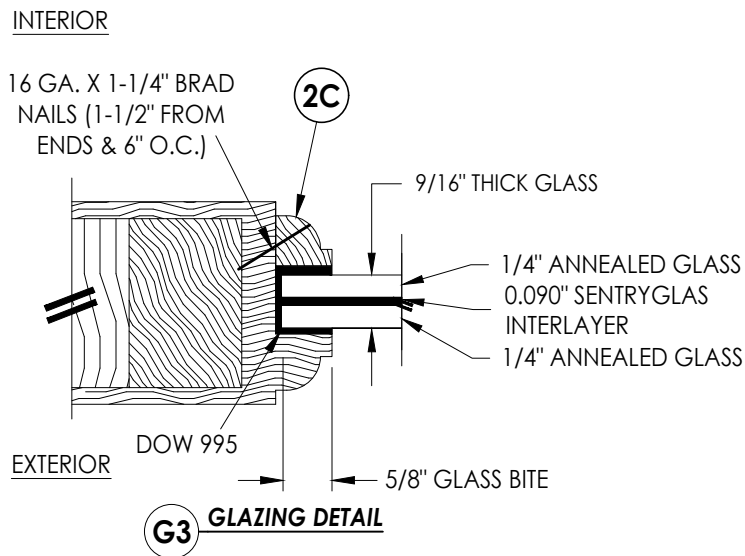
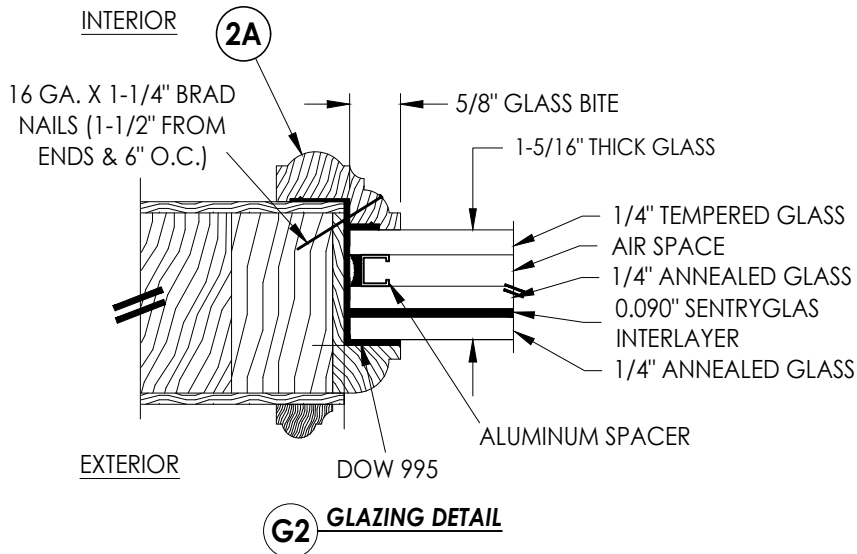
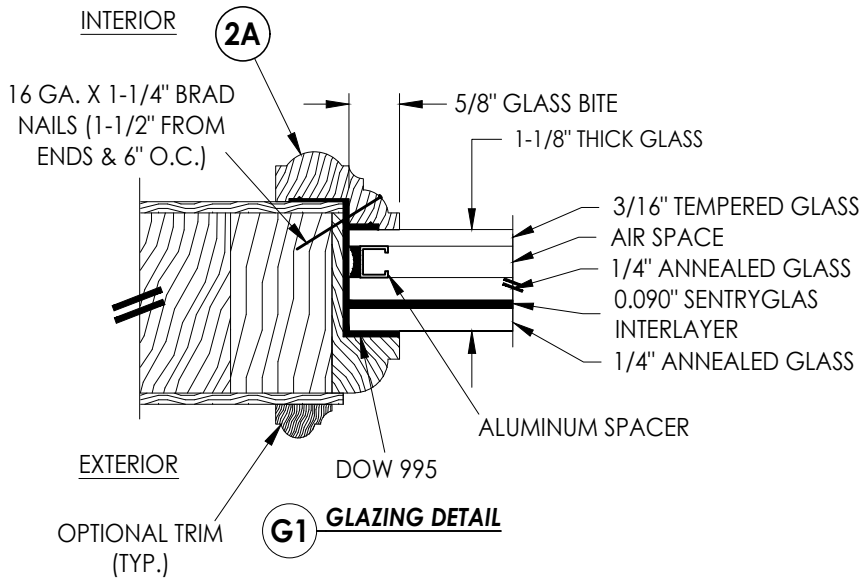
3 VERTICAL CROSS SECTION

5 **VERTICAL CROSS SECTION**

WOOD SIDELITE COMPONENTS:
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)
VENEER/EDGES: CYPRESS (G = 0.42)
NOTE: VENEER/EDGE MAY INCLUDE OAK, CHERRY, WALNUT OR
OTHER OPTIONAL HARDWOOD SPECIES w/ G >= 0.42.

[illegible]

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Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: Builders FirstSource WOOD DOOR		PART OR ASSEMBLY: GLAZING & PANEL INFIL DETAILS	
		LFS	BY
		FBC	
3	9/18/23	UPDATE TO 8TH ED. (2023)	
2	8/10/20	UPDATE TO 7TH ED. (2020)	
1	10/12/17	UPDATE TO 6TH ED. (2017)	
NO.	DATE		
REVISIONS			
DATE: 05/10/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-22347.9			
SHEET 5 OF 14			

Panel options shown are for illustration and are representative only. Surface applied muntins are used for simulated divided lites shown.

HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE	MULTIPOINT HARDWARE: HLS 9000 SERIES MULTIPOINT LOCK ACTIVE: ROUND BOLT/SHOOT BOLT (5-PT.) INACTIVE: SHOOT BOLT (2-PT.)
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)

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2	8/10/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
1	10/12/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
NO.	DATE				BY
REVISIONS					

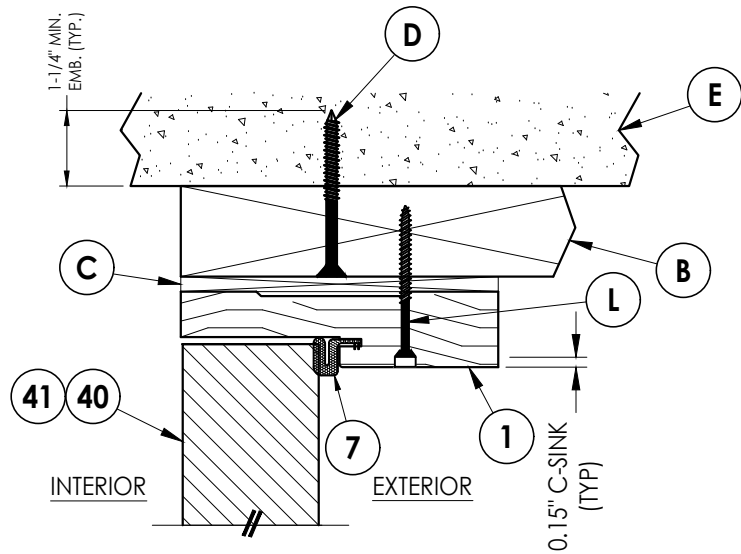
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-22347.9
SHEET	6 OF 14

PRODUCT: Builders FirstSource
WOOD DOOR

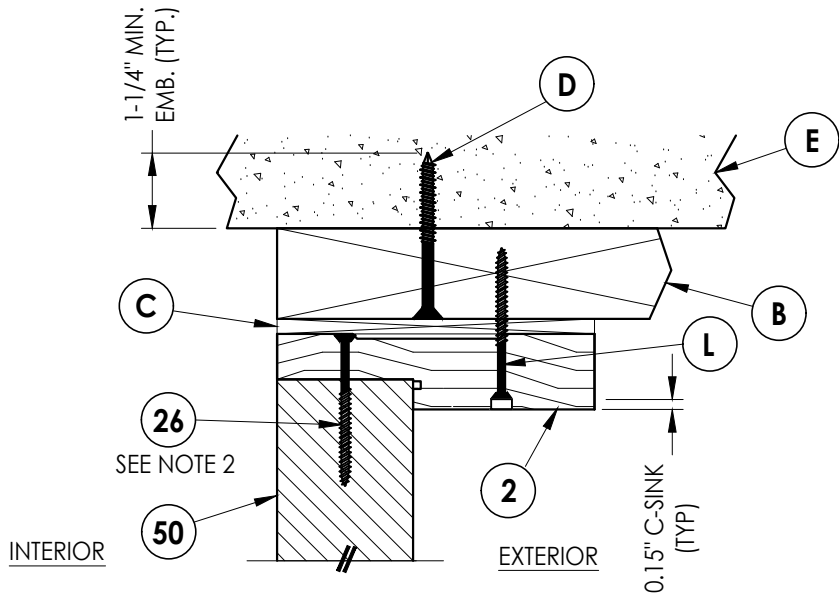
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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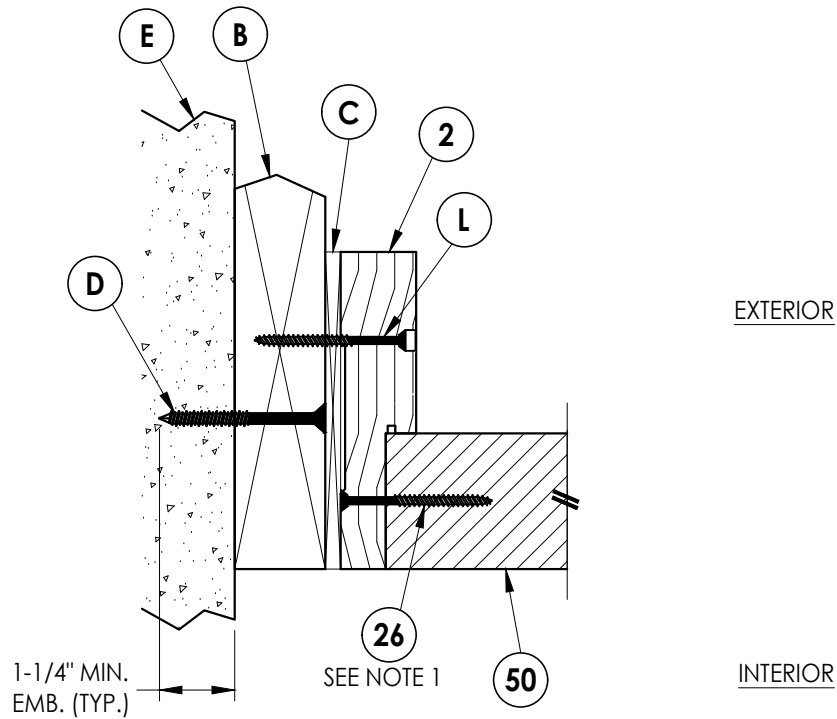
- NOTES:
- Item #26 located 4" from each end & 9 more equally spaced (11 total).
 - Item #26 located 4" from each end & 1 at the center line (3 total).



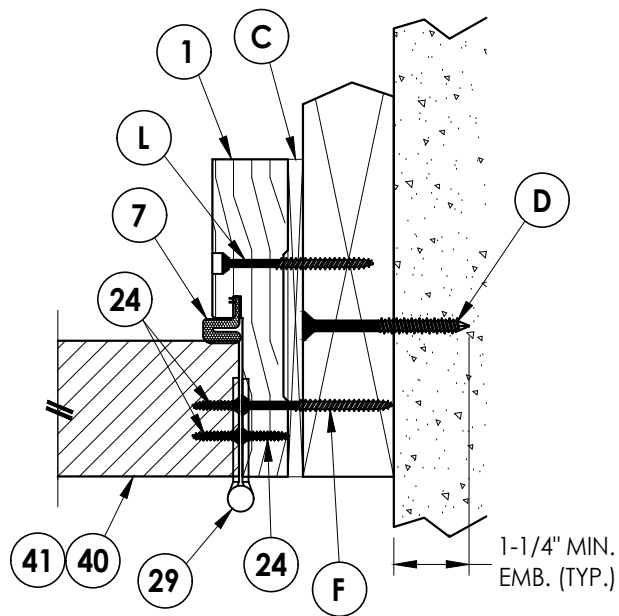
1
7 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



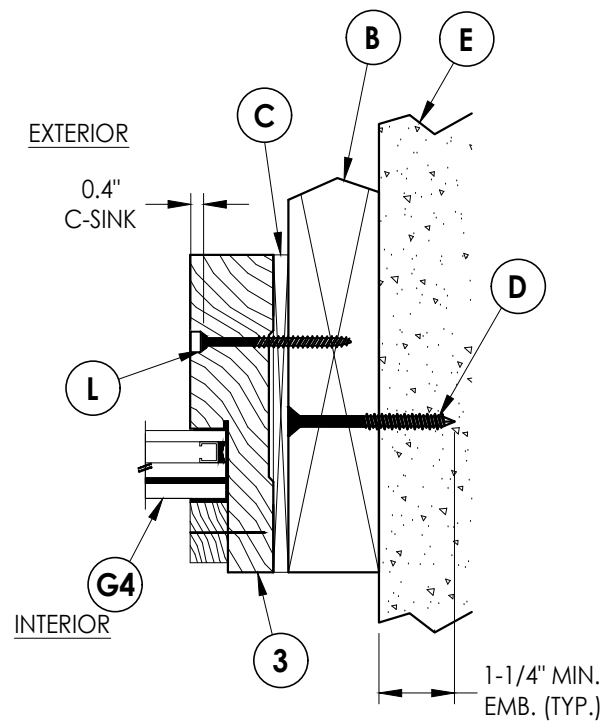
2
7 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



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



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



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

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:
Builders FirstSource
WOOD DOOR

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

NO.	DATE	REVISIONS
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

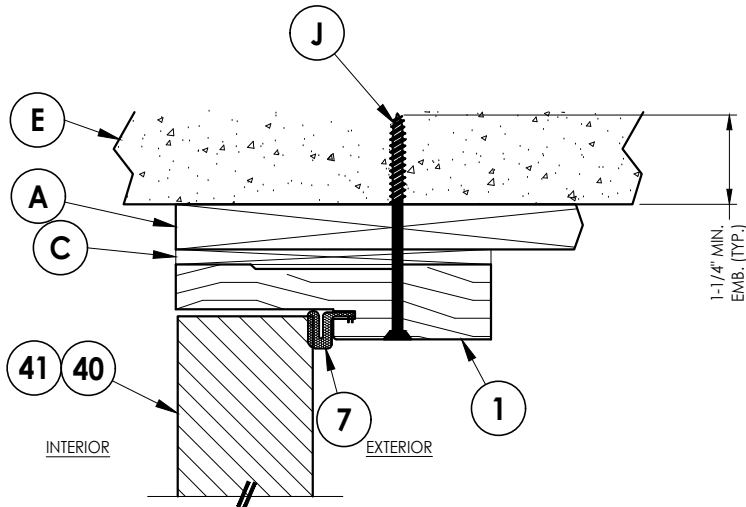
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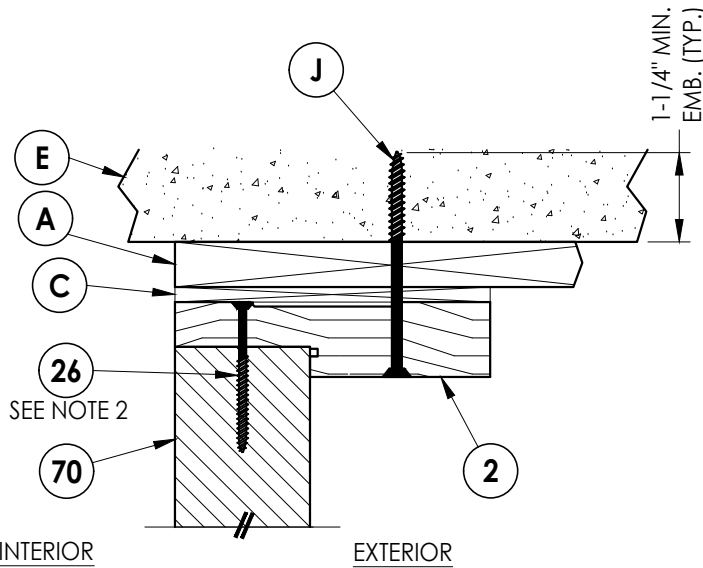
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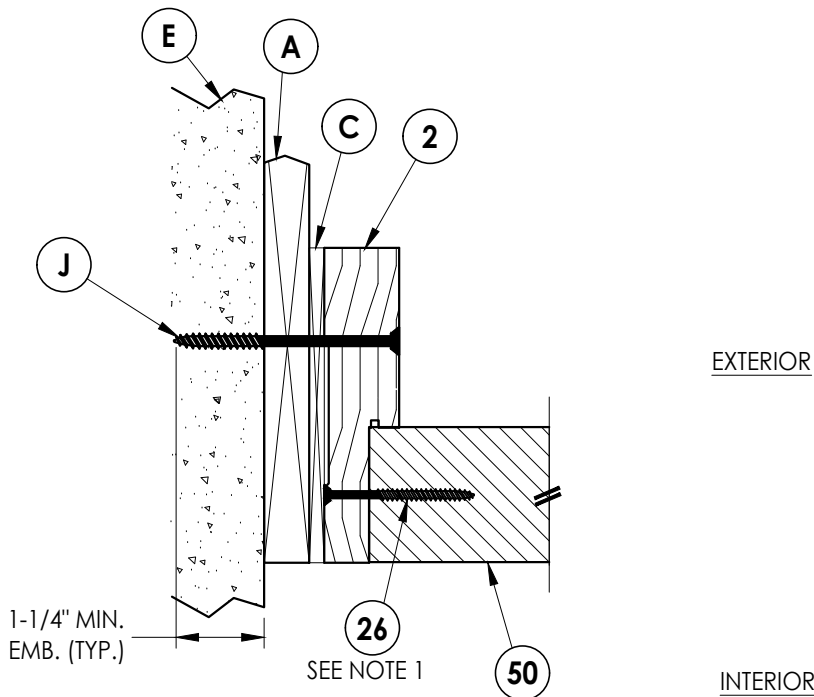
- NOTES:
- Item #26 located 4" from each end & 9 more equally spaced (11 total).
 - Item #26 located 4" from each end & 1 at the center line (3 total).



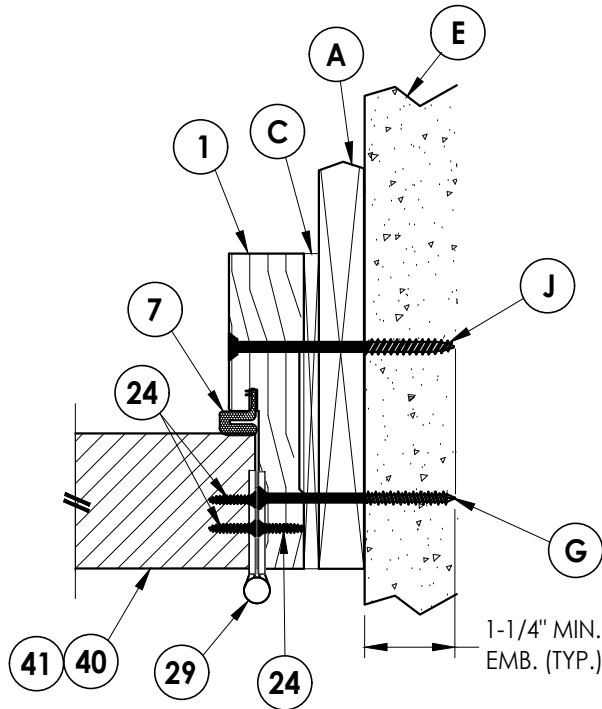
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8 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



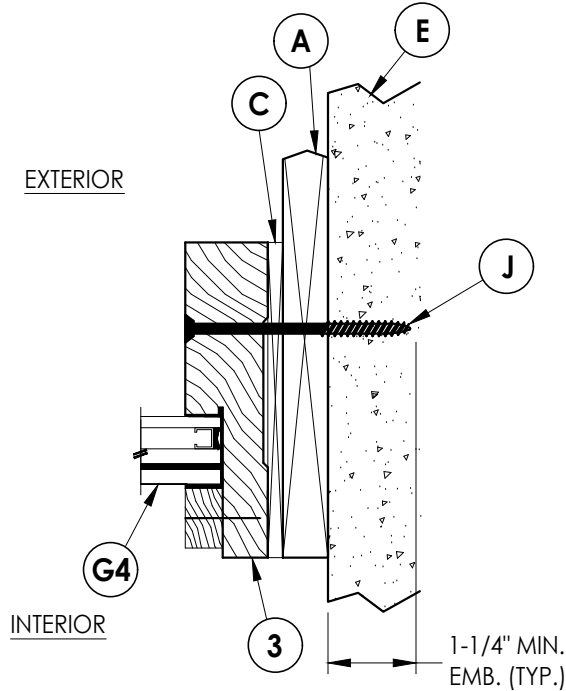
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8 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



3
8 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



4
8 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



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

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:
Builders FirstSource
WOOD DOOR

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

NO.	DATE	REVISIONS
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
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1	10/12/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

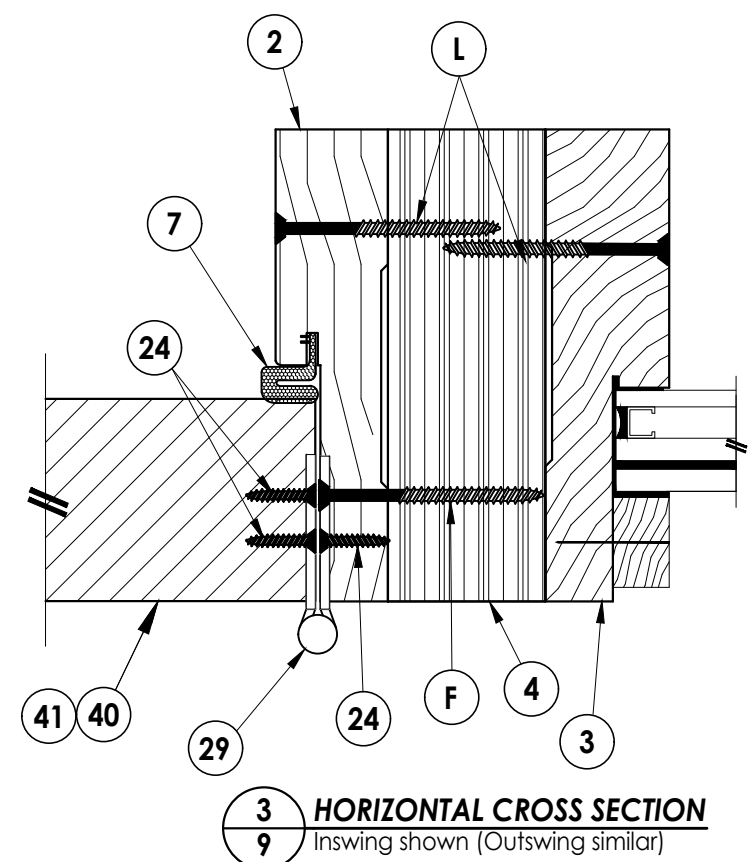
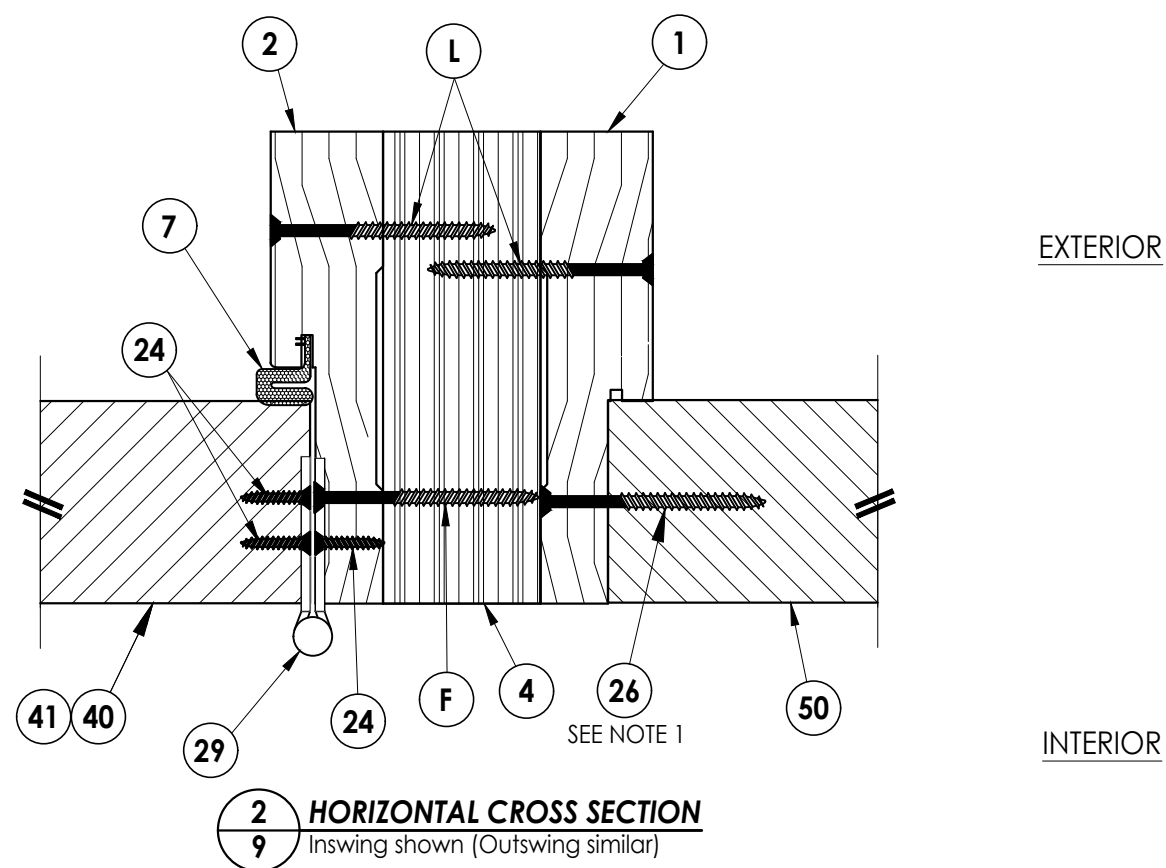
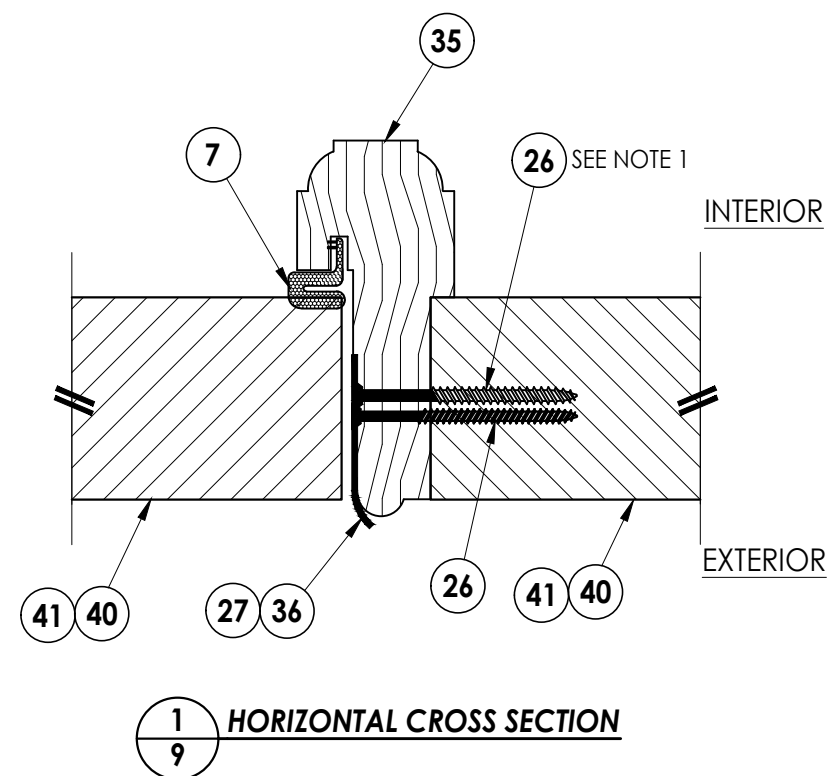
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FL-22347.9

SHEET 8 OF 14

1. Item #26 located 4" from each end & 9 more equally spaced (11 total).

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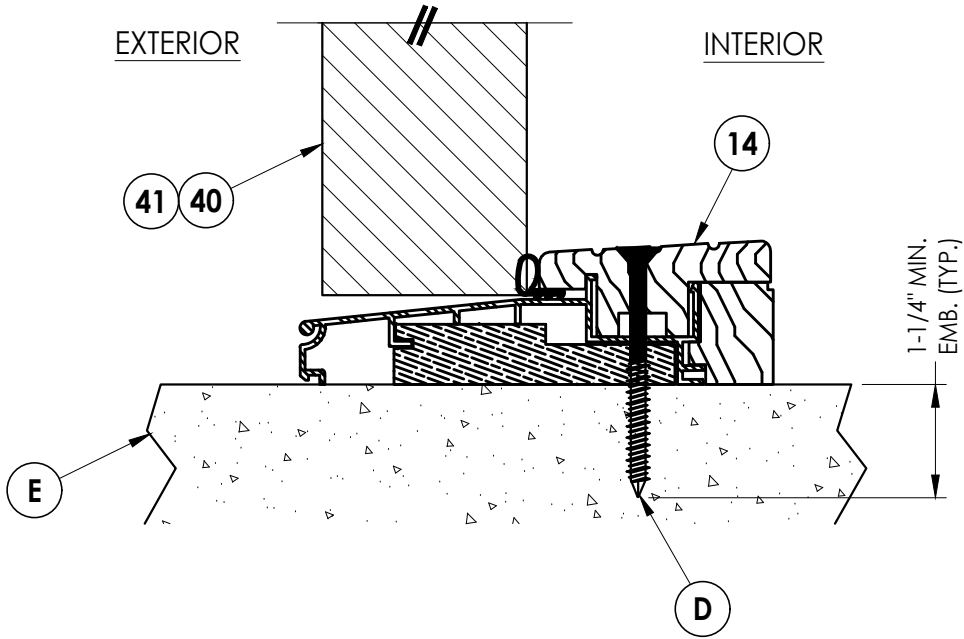
SHEET 9 OF 14

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Lyndon F. Schmidt
P.E. No. 43409

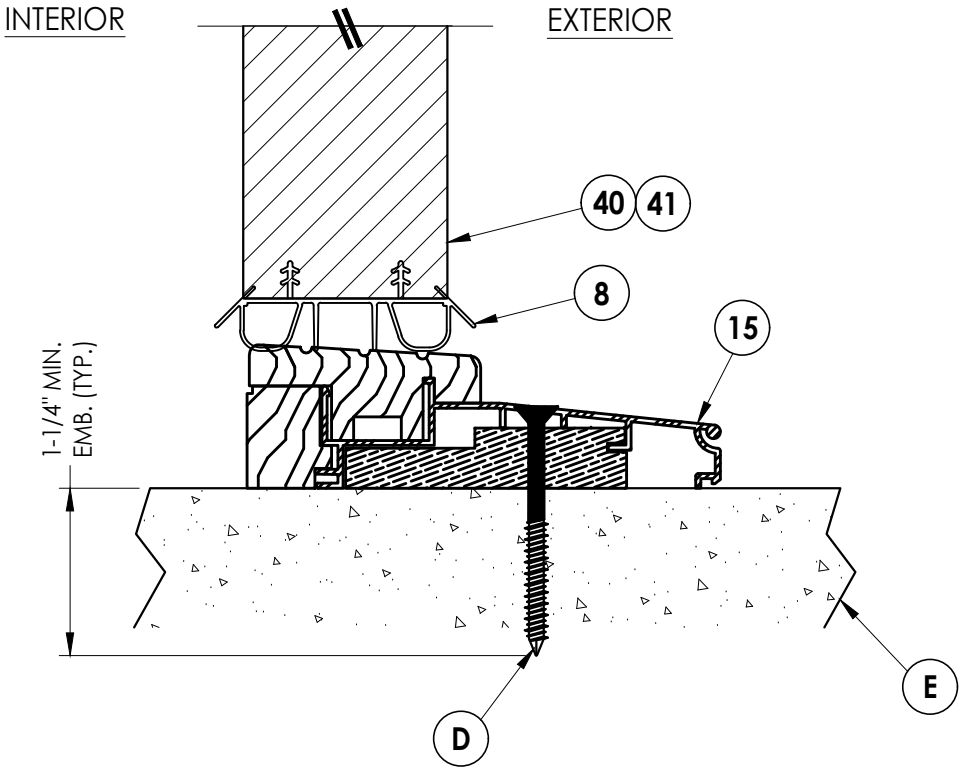
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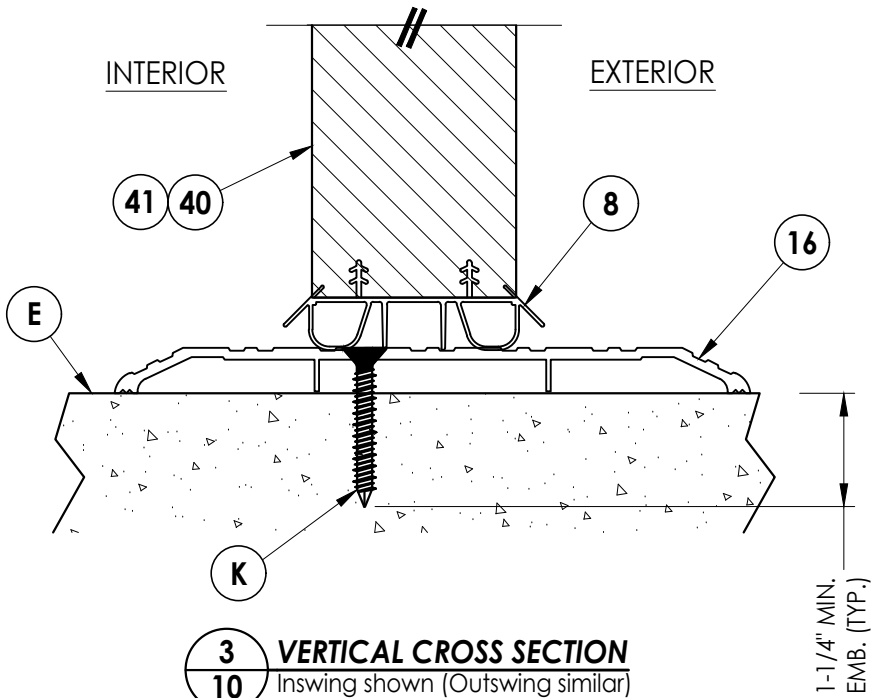
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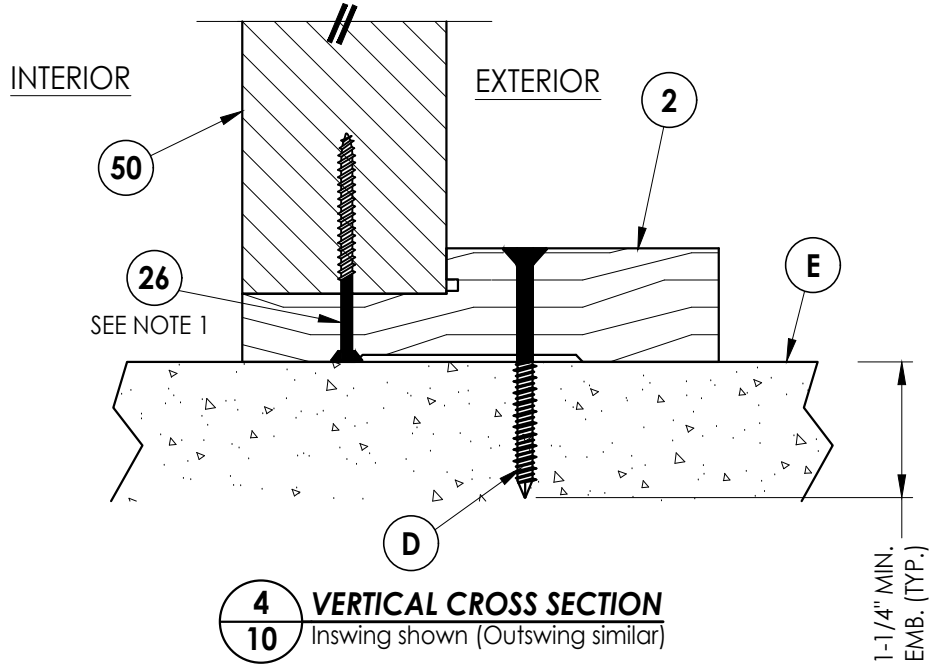
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10 **VERTICAL CROSS SECTION**
Outswing



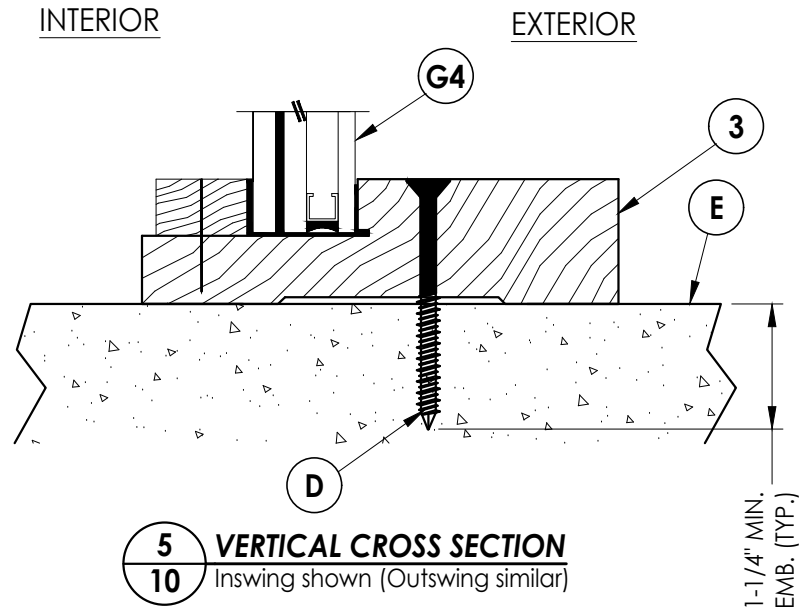
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10 **VERTICAL CROSS SECTION**
Inswing



3
10 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)



4
10 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)



5
10 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)

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:
Builders FirstSource
WOOD DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLD)

NO.	DATE	REVISIONS
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
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1	10/12/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/10/17

SCALE: N.T.S.

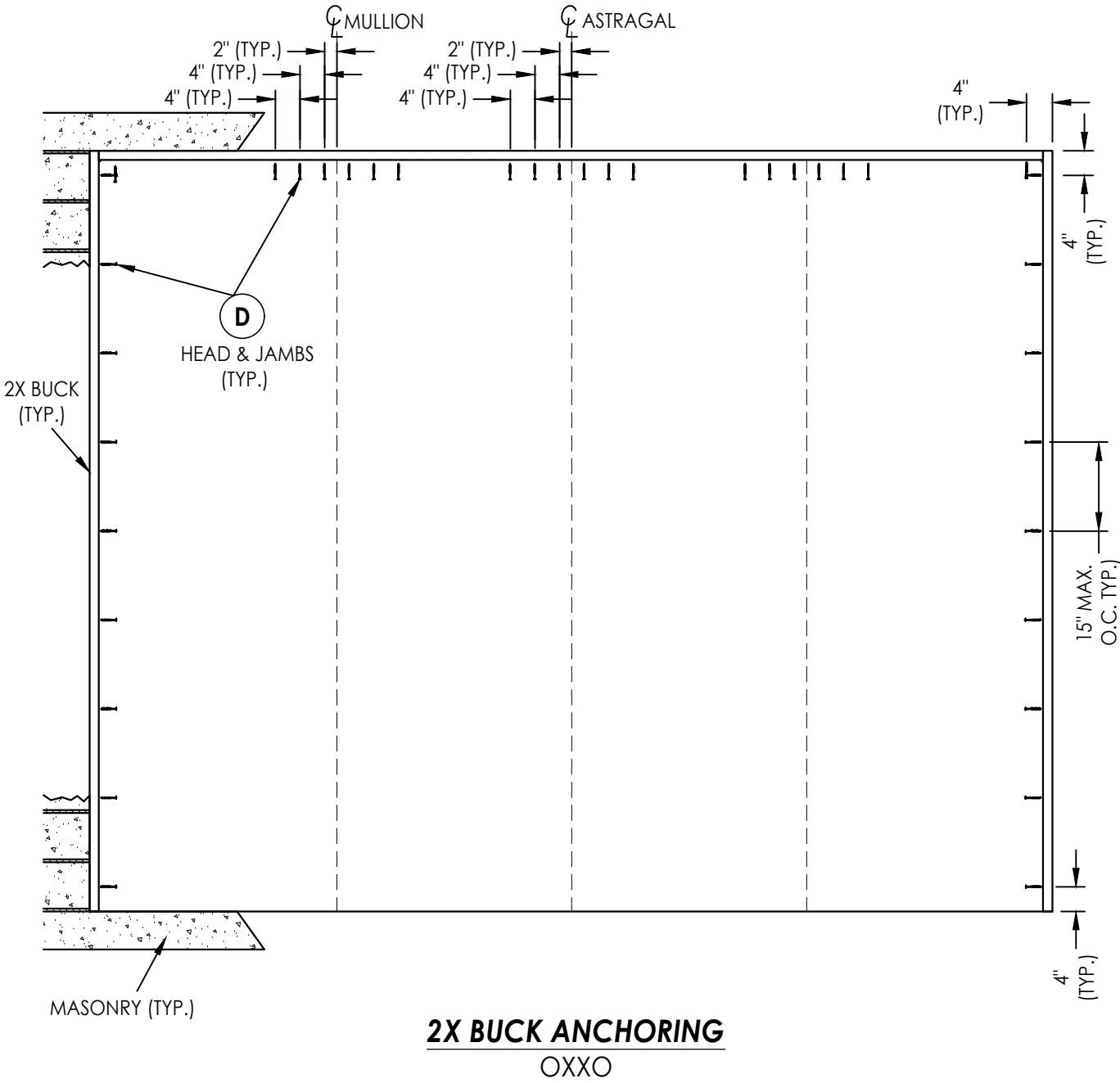
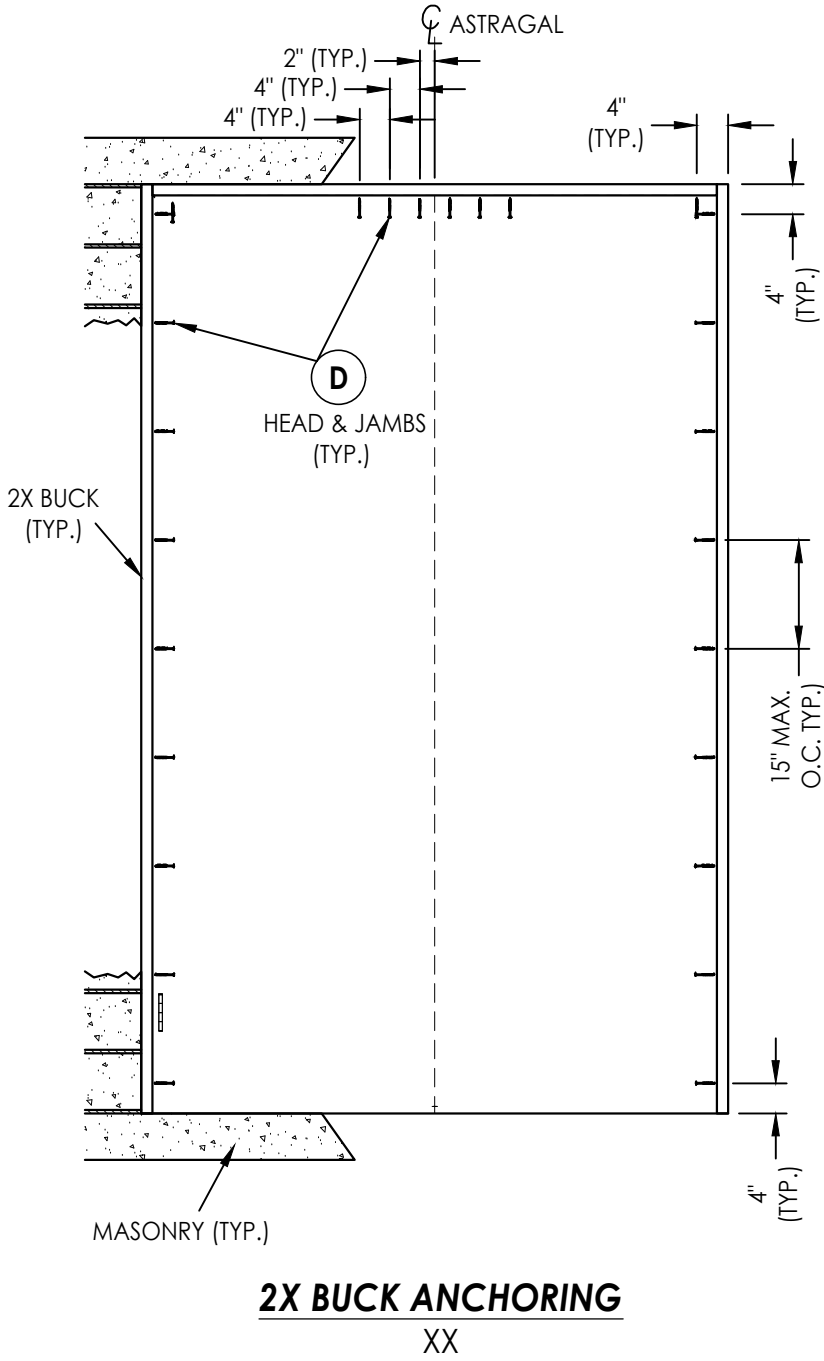
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SHEET 10 OF 14

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NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH
DEEP THREAD WOOD SCREWS @ SILL.

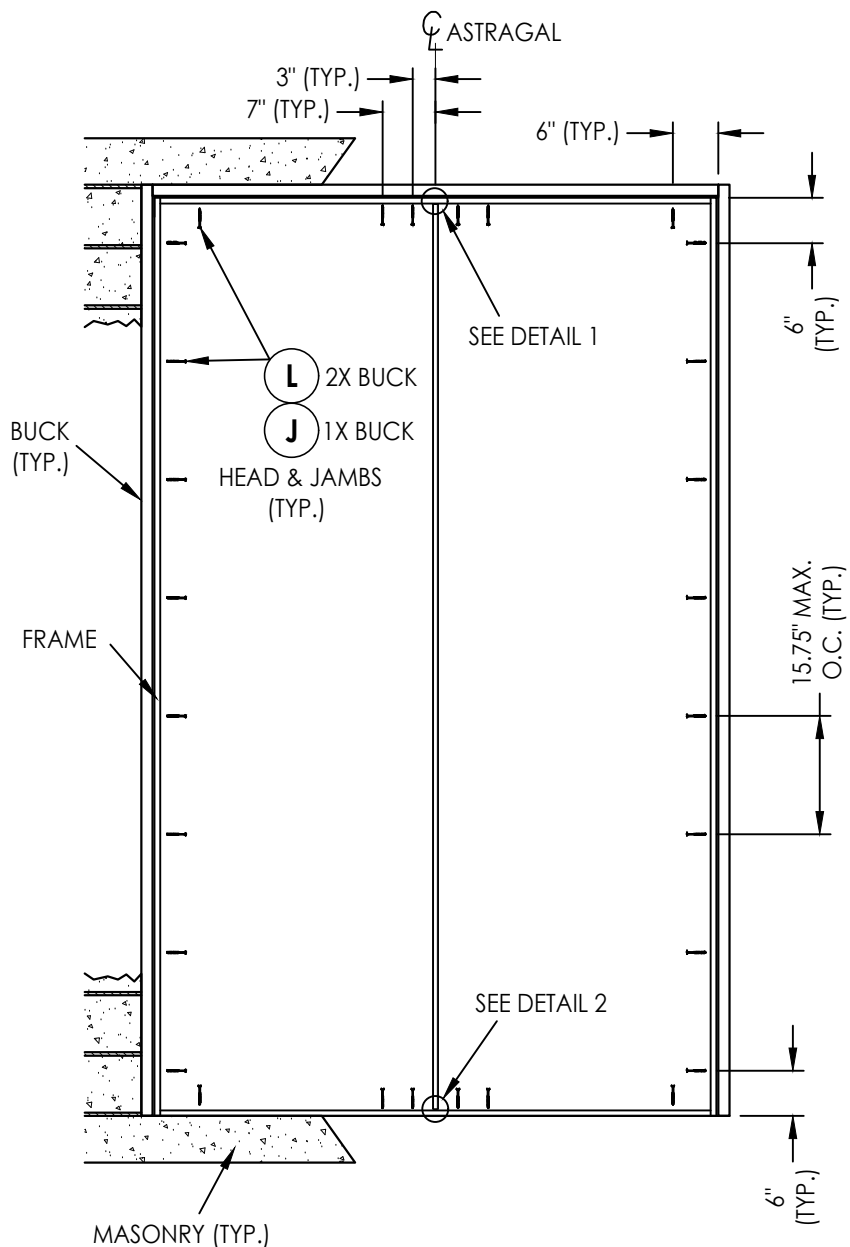
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		2	8/10/20	UPDATE TO 7TH ED. (2020)	FBC LFS
		1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC LFS
		NO.	DATE		BY
REVISIONS					

DATE:	5/10/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-22347.9
SHEET	11 OF 14

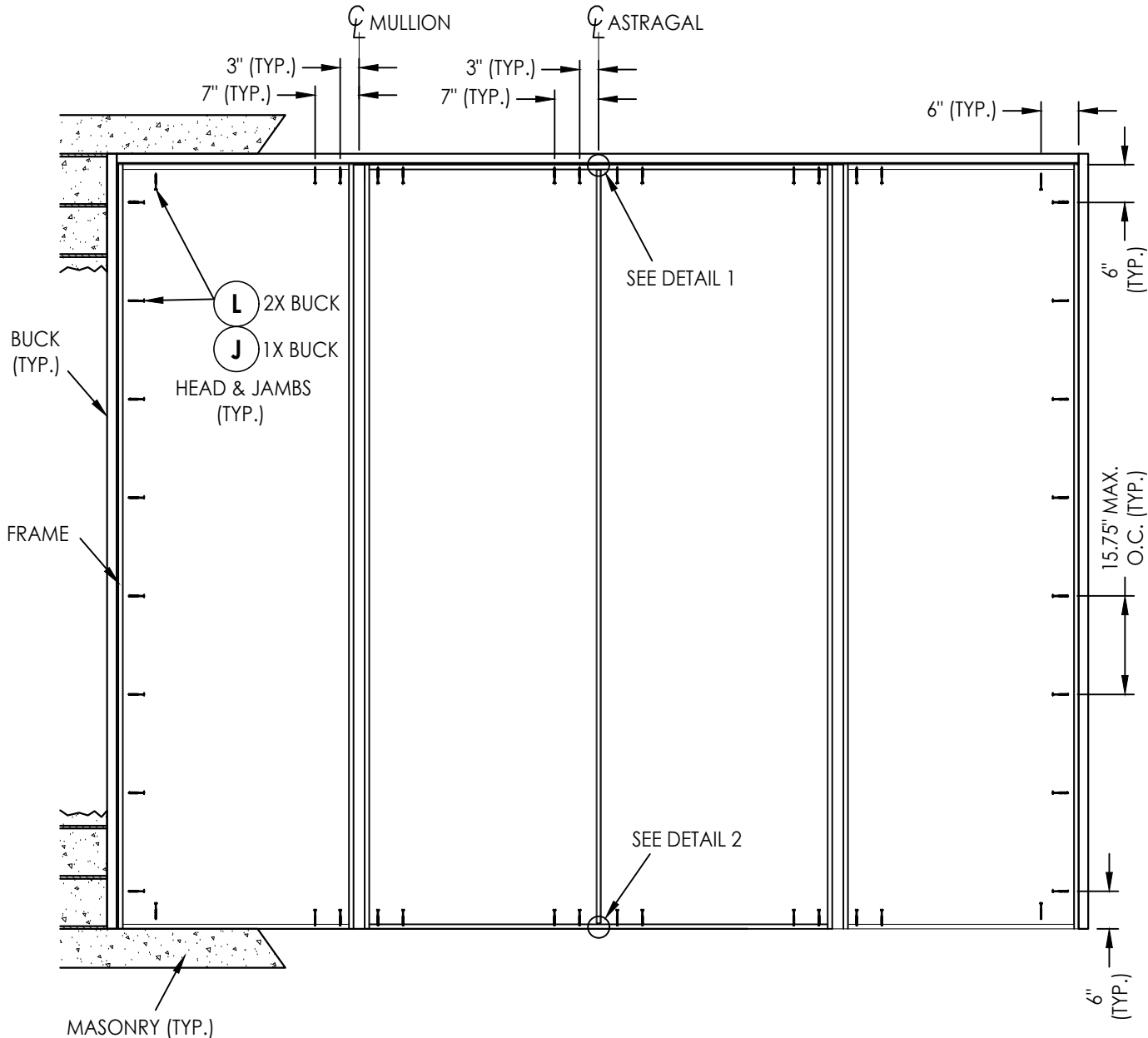
PRODUCT:	Builders FirstSource WOOD DOOR
PART OR ASSEMBLY:	BUCK ANCHORING

Documents Prepared By:	Lyndon F. Schmidt P.E. No. 43409
	R^W BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813

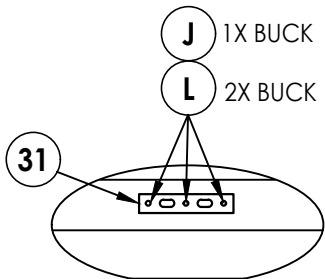
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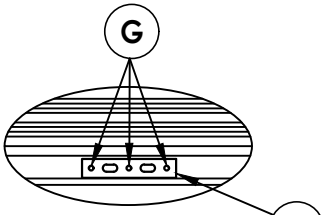
FRAME ANCHORING
XX



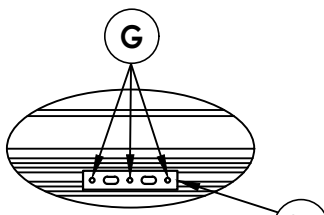
FRAME ANCHORING
OXXO



DETAIL 1



DETAIL 2
Inswing



DETAIL 2
Outswing

NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH
DEEP THREAD WOOD SCREWS @ SILL.

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

PRODUCT:
Builders FirstSource
WOOD DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	REVISIONS
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

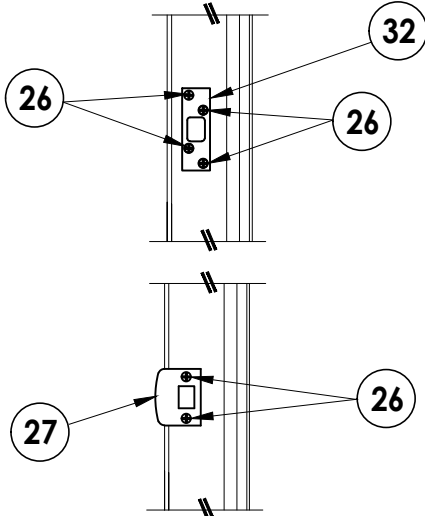
CHK. BY: LFS

DRAWING NO.:

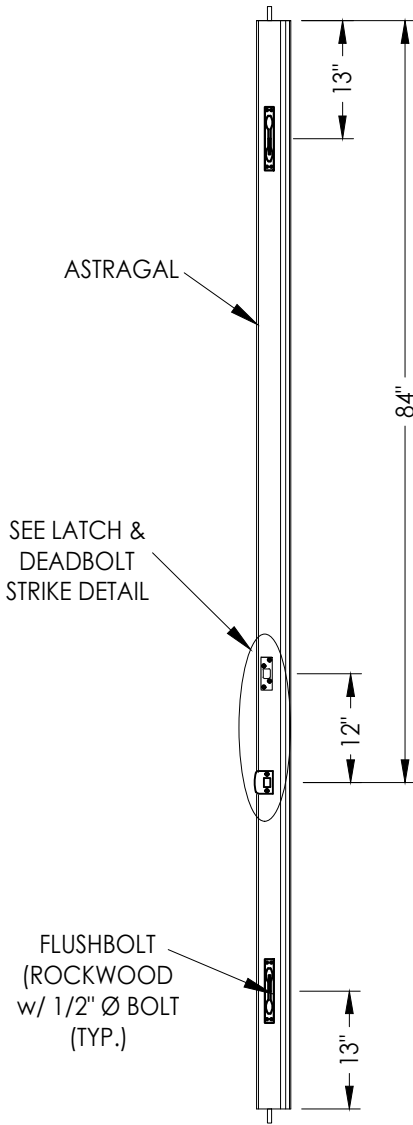
FL-22347.9

SHEET 12 OF 14

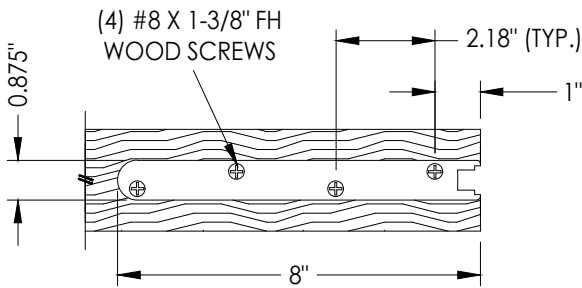
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



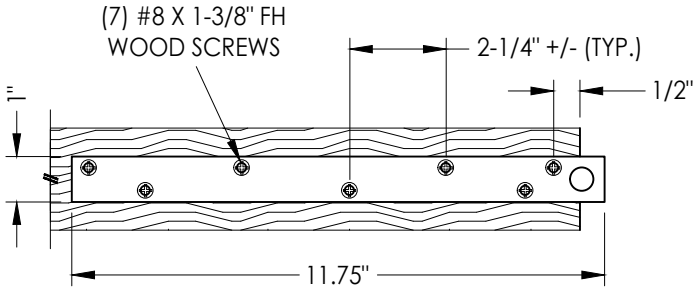
LATCH & DEADBOLT STRIKE DETAIL



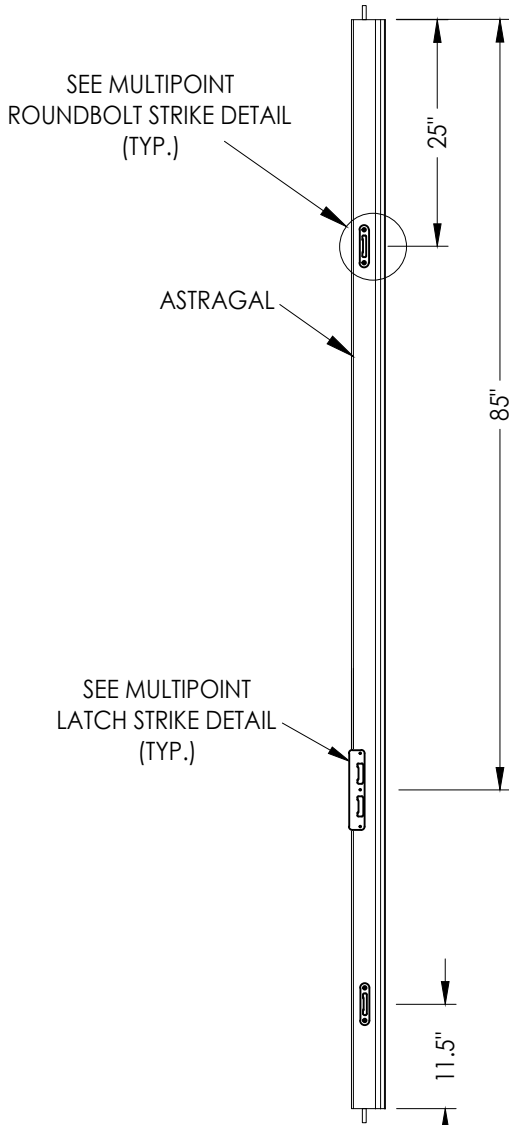
LATCH & DEADBOLT DETAILS



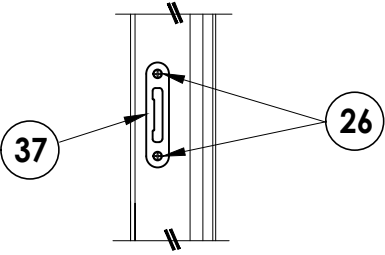
SHOOTBOLT REINFORCMENT
AT TOP & BOTTOM OF DOOR PANEL
(1/8" THICK STEEL)



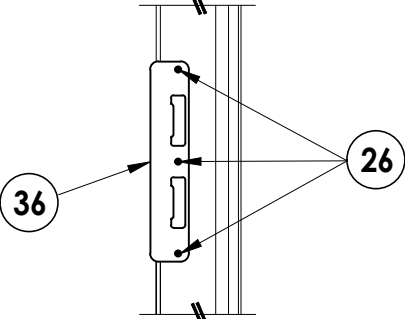
FLUSHBOLT REINFORCMENT
AT TOP & BOTTOM OF DOOR PANEL
(3/16" THICK STEEL)



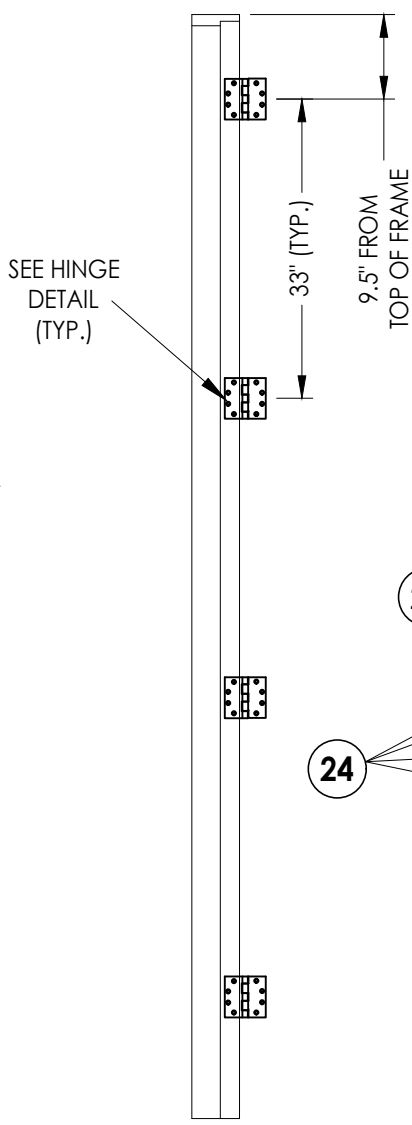
MULTIPOINT LOCK DETAILS



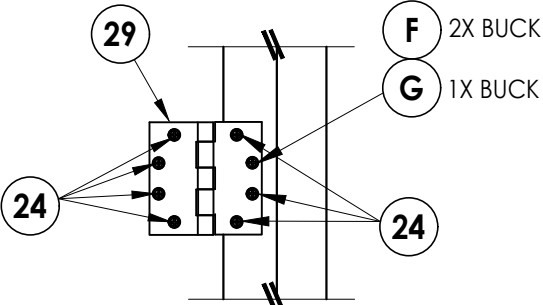
MULTIPOINT ROUND BOLT STRIKE DETAIL



MULTIPOINT STRIKE DETAIL



HINGE JAMB

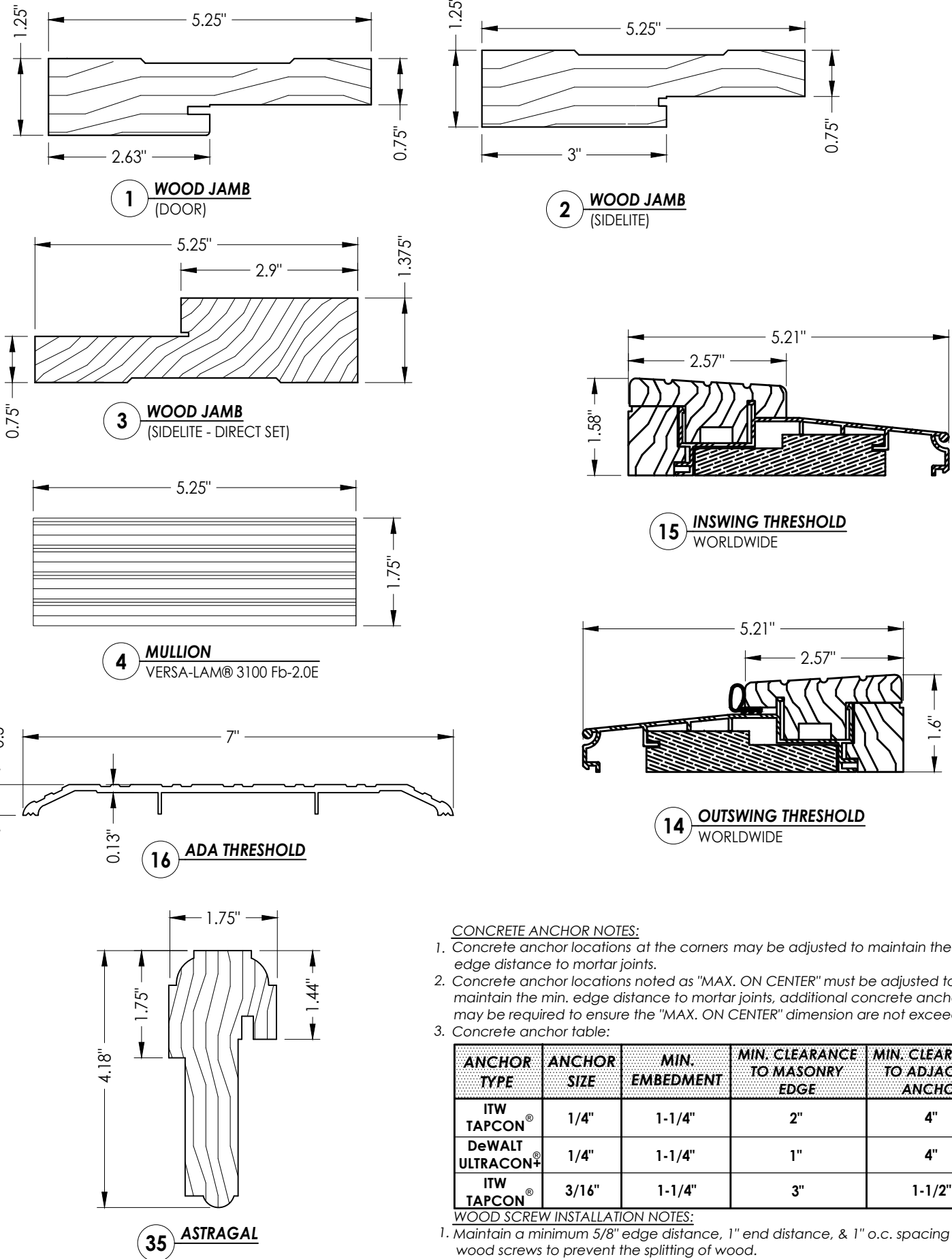


HINGE DETAIL

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: Builders FirstSource WOOD DOOR		PART OR ASSEMBLY: HARDWARE DETAILS	
3	9/18/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020)	FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC LFS
NO.	DATE		
REVISIONS			
DATE: 5/10/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-22347.9			
SHEET 13 OF 14			

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 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	#12 X 2-1/2" 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
K	1/4" X 1-3/4" 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" PFH ITW CONCRETE SCREW	STEEL
1	JAMB (DOOR)	WOOD
2	JAMB (SIDELITE)	WOOD
3	JAMB (SIDELITE - DIRECT SET)	WOOD
4	MULLION	LVL
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
14	OUTSWING THRESHOLD	ALUM/COMP
15	INSWING THRESHOLD	ALUM/COMP
16	ADA THRESHOLD	ALUM
23	#10 X 1-1/2" PFH WOOD SCREW	STEEL
24	#12 x 1" PFH WOOD SCREW	STEEL
25	#8 x 1-3/4" PFH WOOD SCREW	STEEL
26	#8 x 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
29	4.5" X 4.5" HINGE	STEEL
31	SHOOTBOLT STRIKE PLATE	STEEL
32	DEADBOLT SECURITY STRIKE PLATE	STEEL
35	ASTRAGAL	WOOD
36	MULTIPOINT STRIKE PLATE	STEEL
37	MULTIPOINT ROUND BOLT STRIKE DETAIL	STEEL
40	DOOR PANEL	WOOD
41	DOOR PANEL	WOOD
50	SIDELITE PANEL	WOOD
51	SIDELITE PANEL (DIRECT SET)	WOOD
70	TRANSOM PANEL	WOOD

WOOD FRAME COMPONENTS: SIPO (UTILE) ($G = 0.53$)



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"	3"	1-1/2"

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.

DATE: 5/10/17		REVISIONS	
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-22347.9			
SHEET 14 OF 14			
3	9/18/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020)	FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC LFS
NO.	DATE		BY
PRODUCT:		BUILDERS FirstSource WOOD DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS & COMPONENTS	
Documents Prepared By:		<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
Lyndon F. Schmidt			
P.E. No. 43409			