

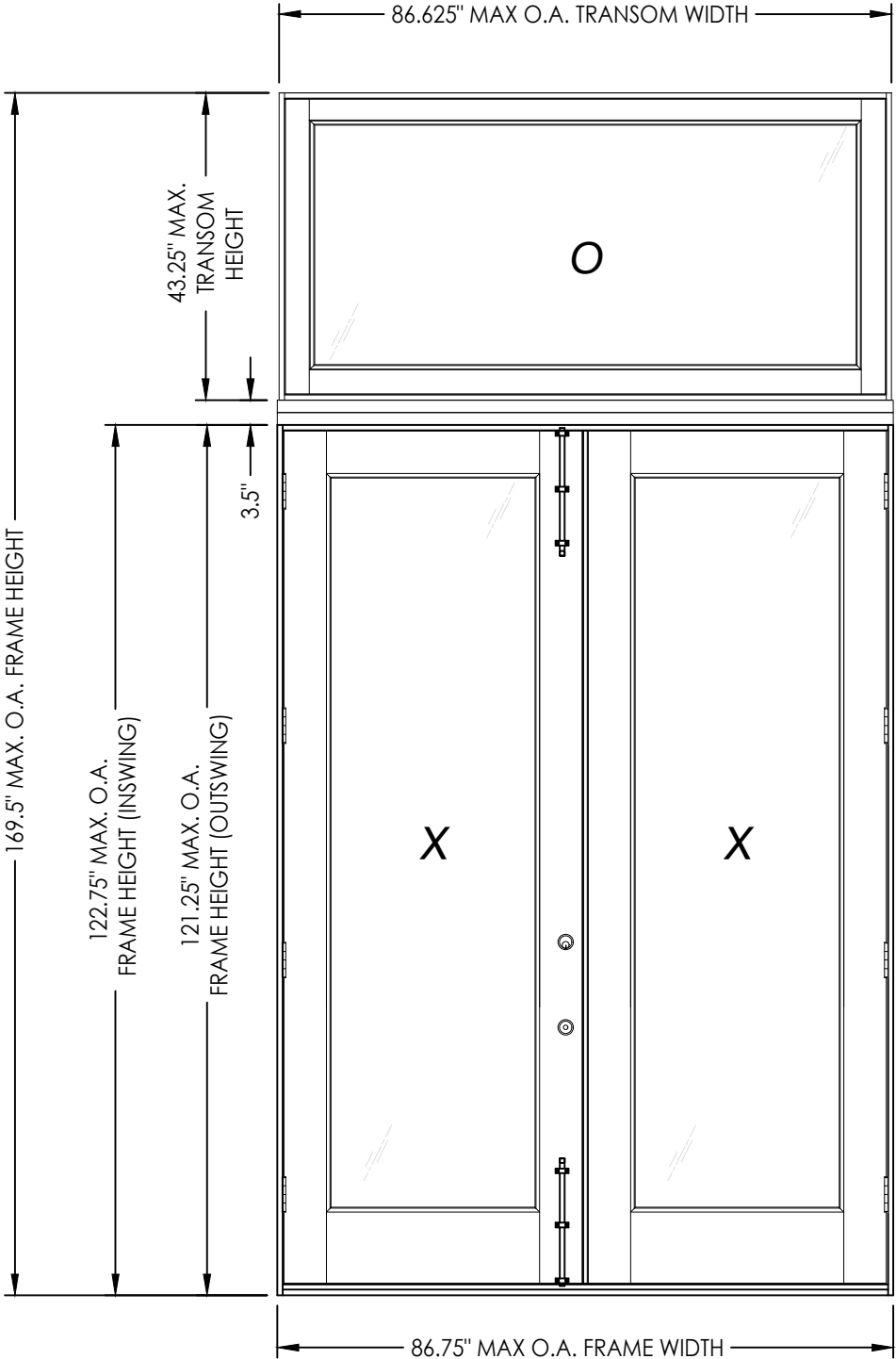


"Gulf Armor"
WOOD GLAZED OR OPAQUE
DOUBLE DOOR w/ TRANSOM
INSWING/OUTSWING
"IMPACT"

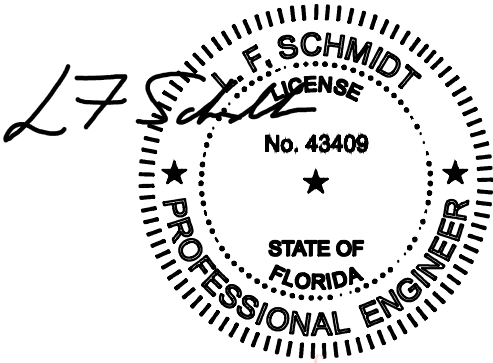
GENERAL NOTES:

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.

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



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
O XX	+60.0	-70.0	+60.0	-60.0



Digitally signed by Lyndon F Schmidt
Date: 2023.10.18 12:13:00 -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

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-22347.11

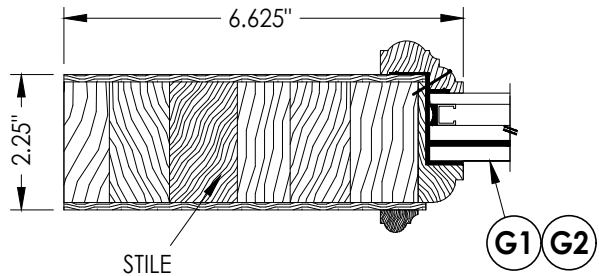
SHEET 1 OF 12

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

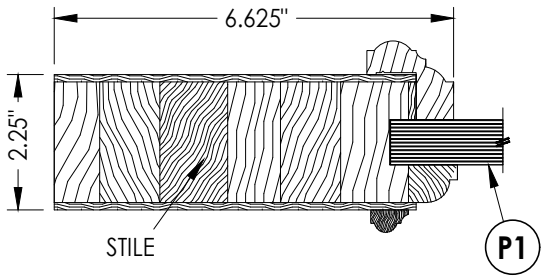
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS

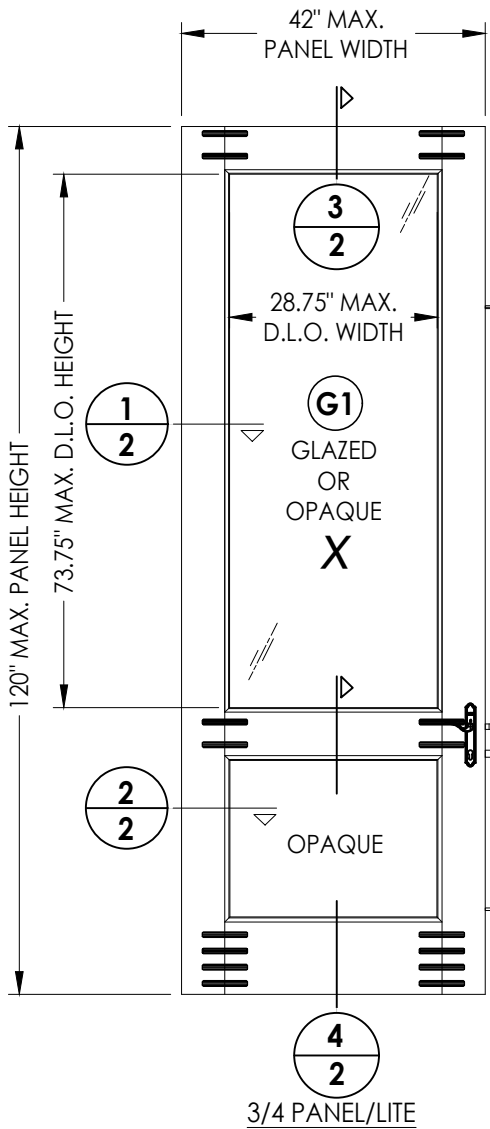
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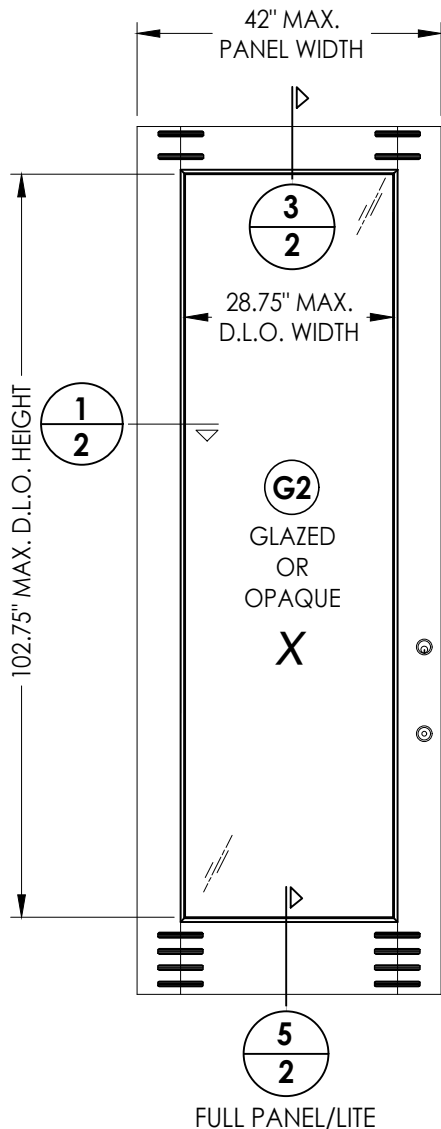
1
2 HORIZONTAL CROSS SECTION



2
2 HORIZONTAL CROSS SECTION



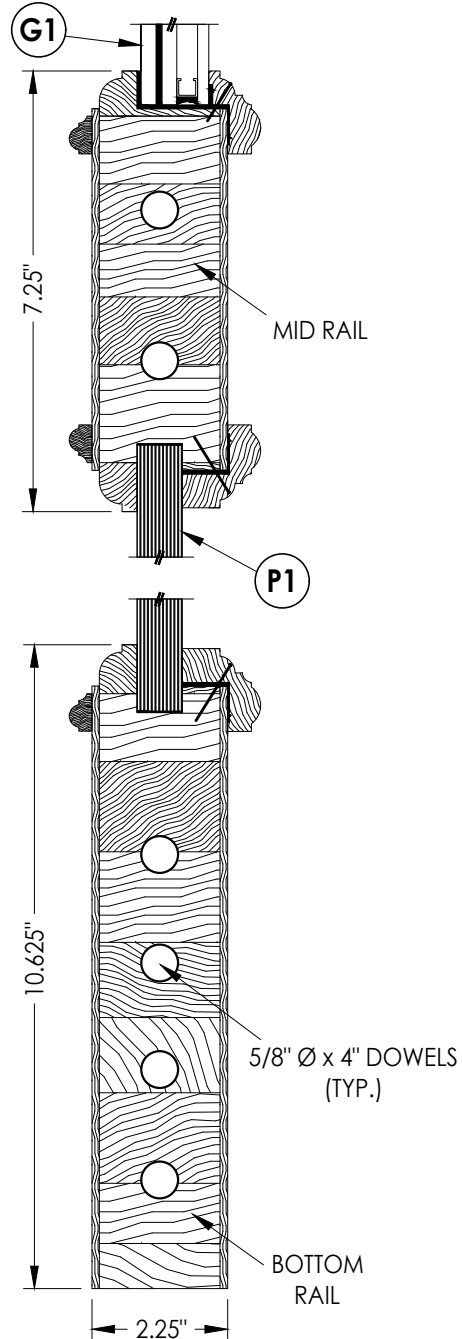
3/4 PANEL/LITE



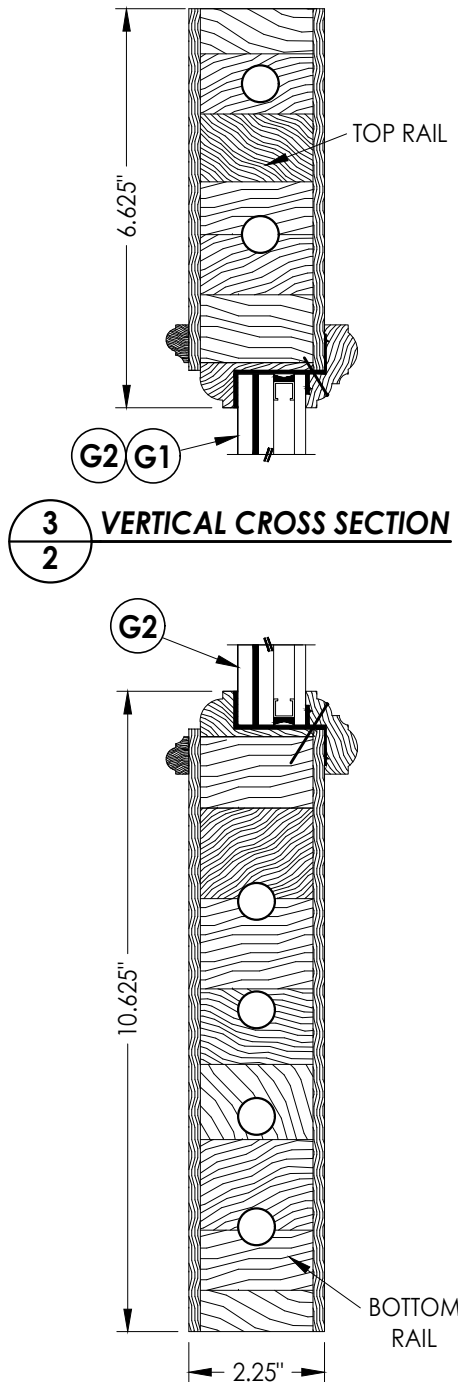
FULL PANEL/LITE

40 WOOD DOOR PANEL (3'-6")
Glazed or Opaque

WOOD DOOR 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.



4
2 VERTICAL CROSS SECTION



5
2 VERTICAL CROSS SECTION

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

PRODUCT:
Builders FirstSource
WOOD DOOR

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.:

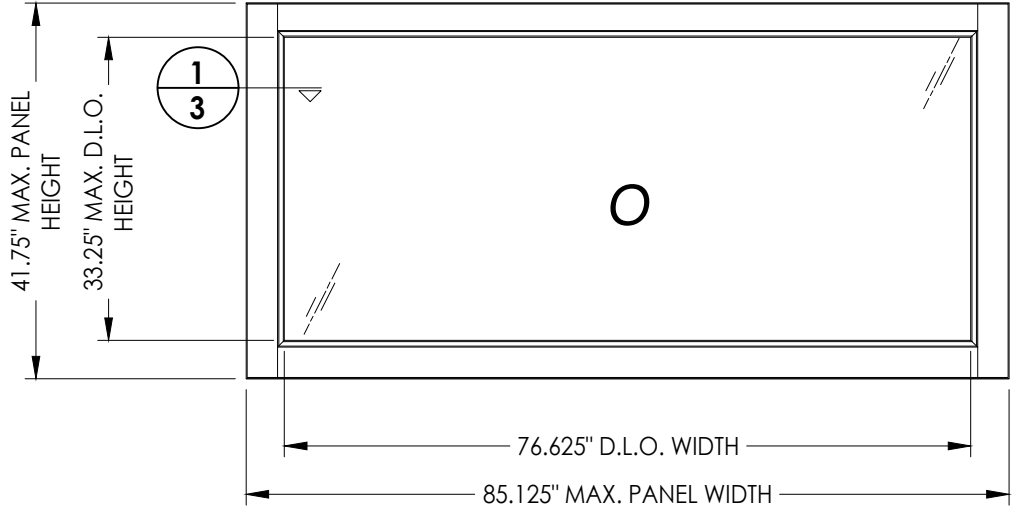
FL-22347.11

SHEET 2 OF 12

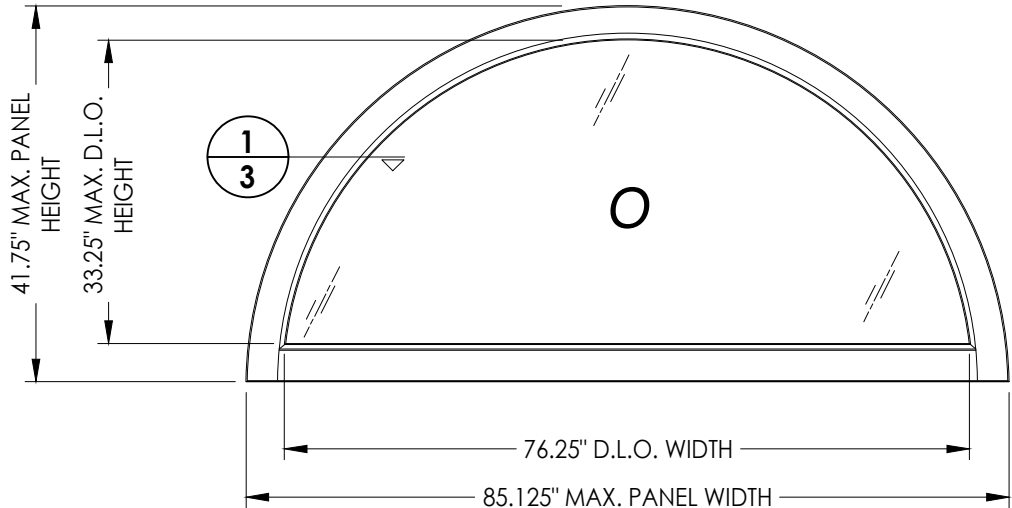
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:
DOOR PANEL
DETAILS

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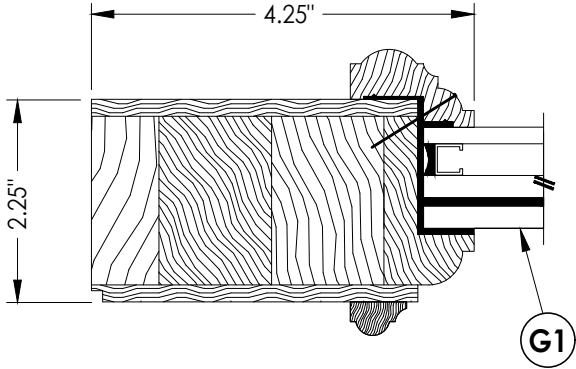


70 WOOD TRANSOM PANEL



70 WOOD TRANSOM PANEL

NOTE:
1. ALL FRAME CORNERS SECURED WITH (1) 1/4" X 6" LAG SCREW.



1/3 HORIZONTAL CROSS SECTION

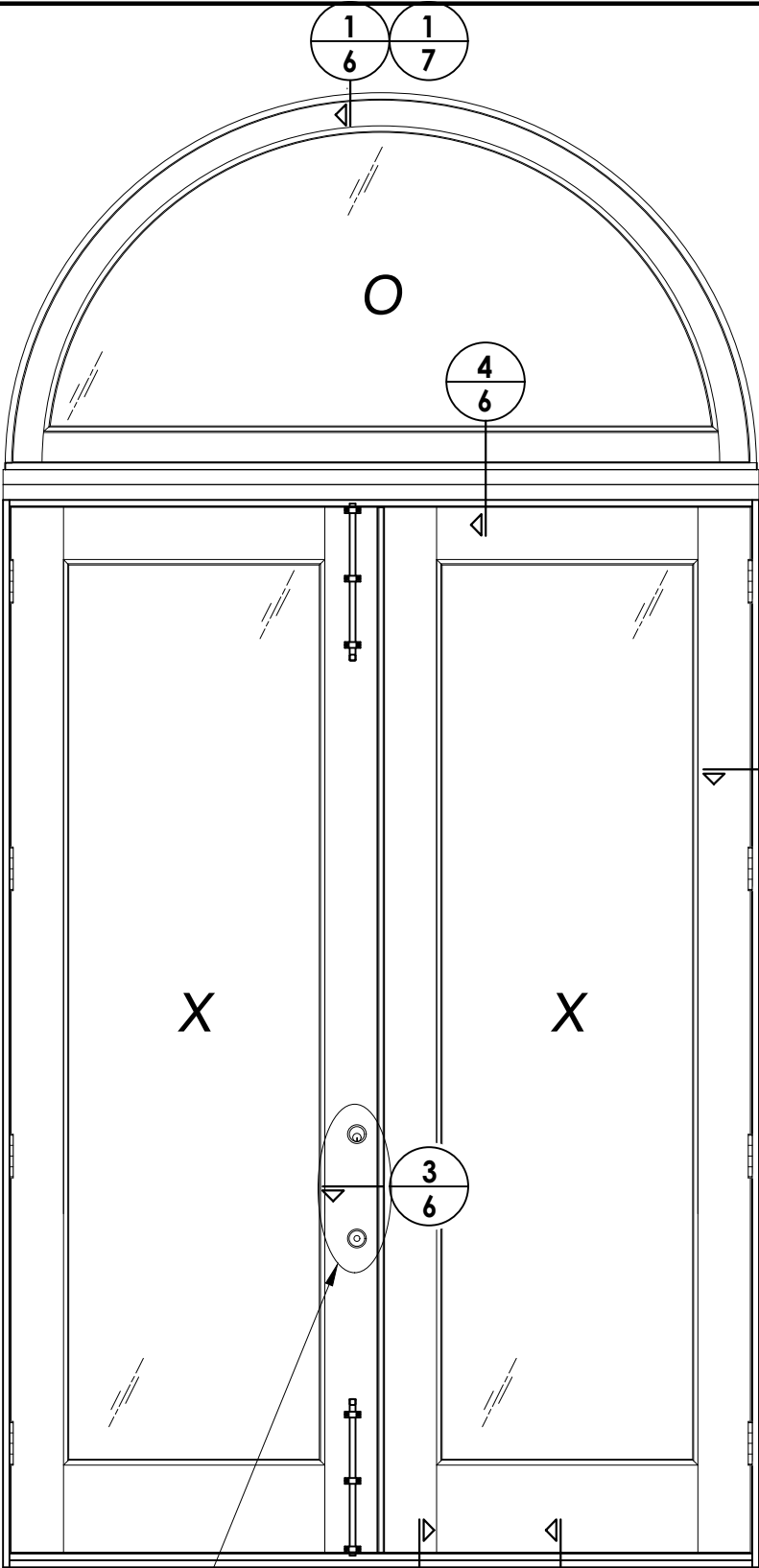
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SCALE: N.T.S.	
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.: FL-22347.11	
SHEET	3 OF 12

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

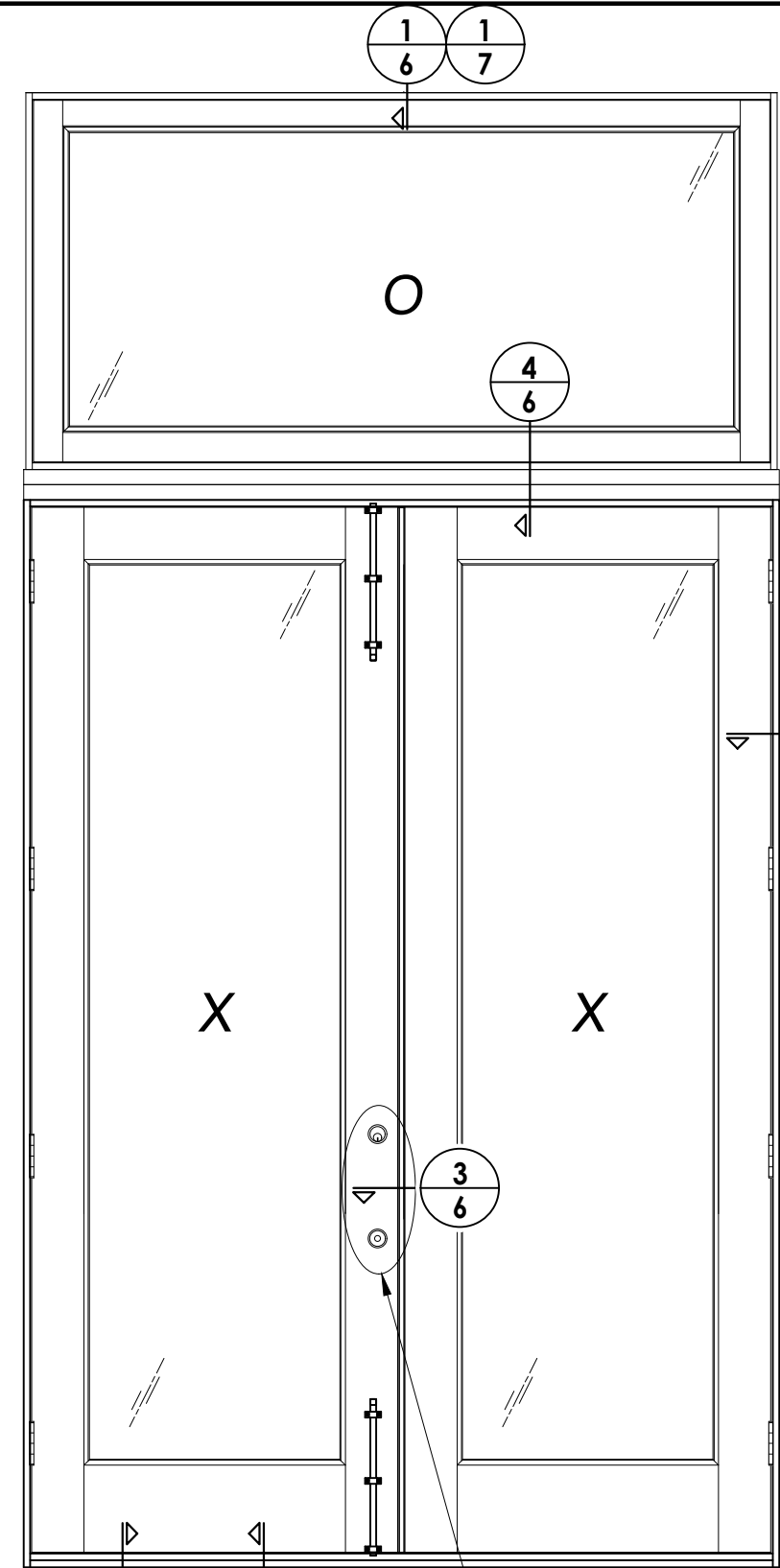
PRODUCT:	Builders FirstSource WOOD DOOR
	PART OR ASSEMBLY: TRANSOM PANEL DETAILS

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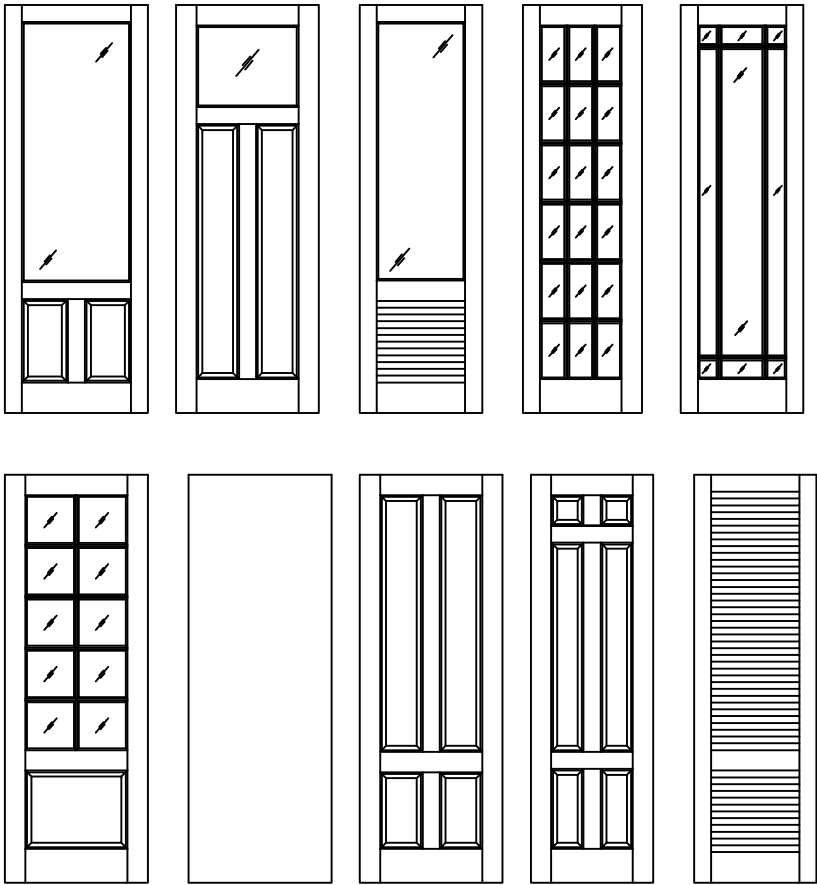
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SEE HARDWARE
CHART



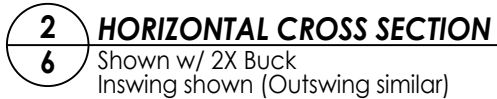
SEE HARDWARE
CHART



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

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)

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PRODUCT: Builders FirstSource WOOD DOOR			PART OR ASSEMBLY: ELEVATIONS		
			UPDATE TO 8TH ED. (2023)	FBC	LFS
3	9/18/23		UPDATE TO 7TH ED. (2020)	FBC	LFS
2	8/10/20		UPDATE TO 6TH ED. (2017)	FBC	LFS
1	10/12/17		NO.	DATE	BY
			REVISIONS		
DATE: 05/10/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-22347.11					
SHEET 5 OF 12					



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					

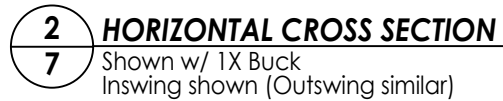
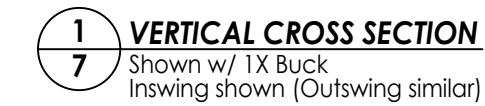
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SHEET 6 OF 12

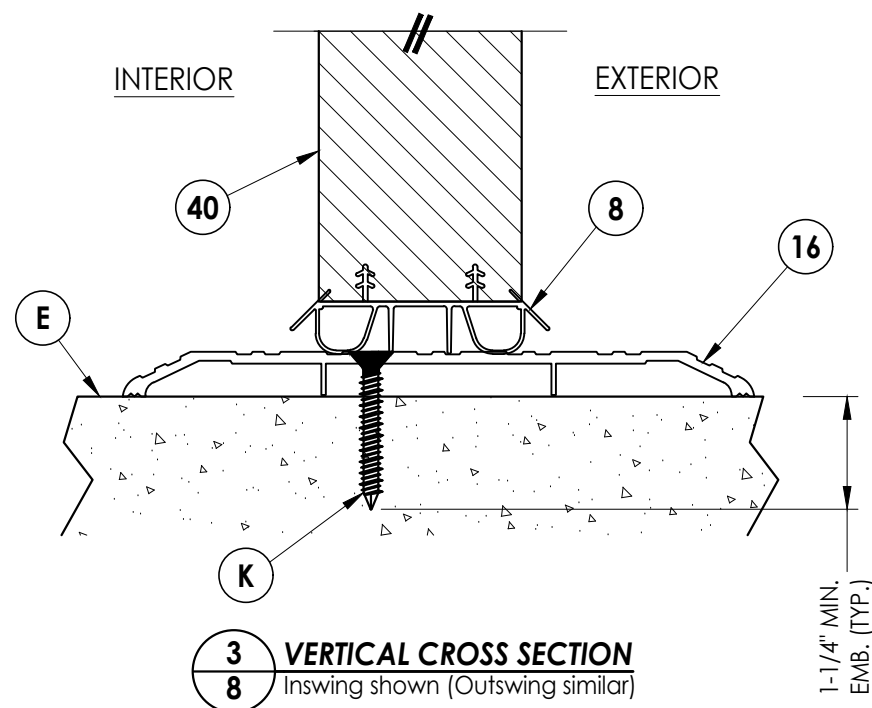
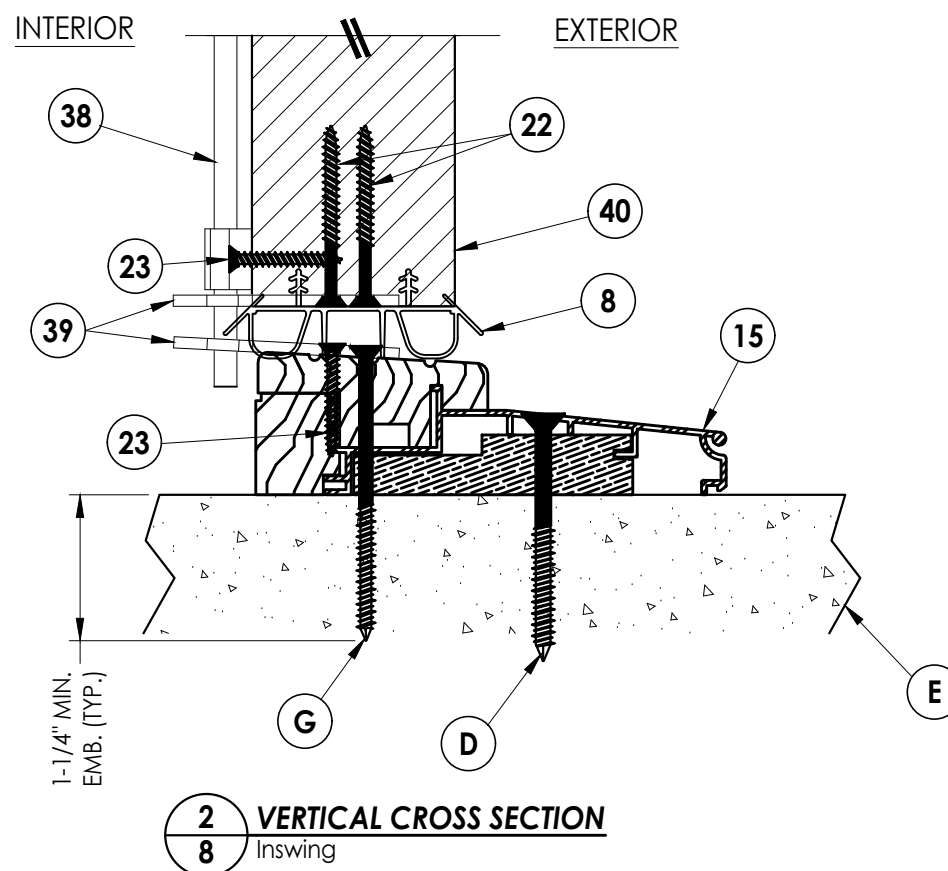
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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1. Item #26 located 4" from each end & 1 at the center line (3 total).

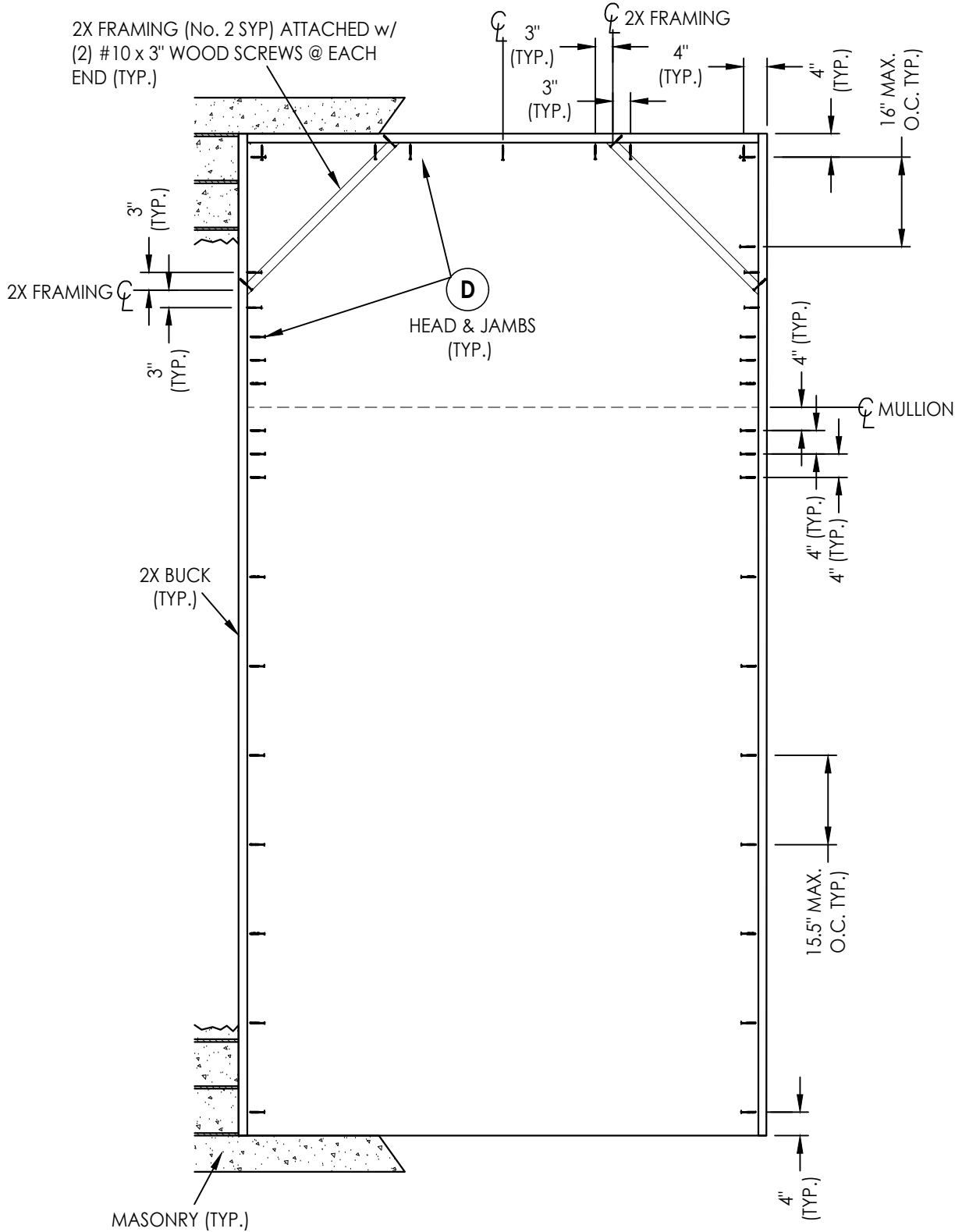
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-22347.11
SHEET	<u>7</u> OF <u>12</u>

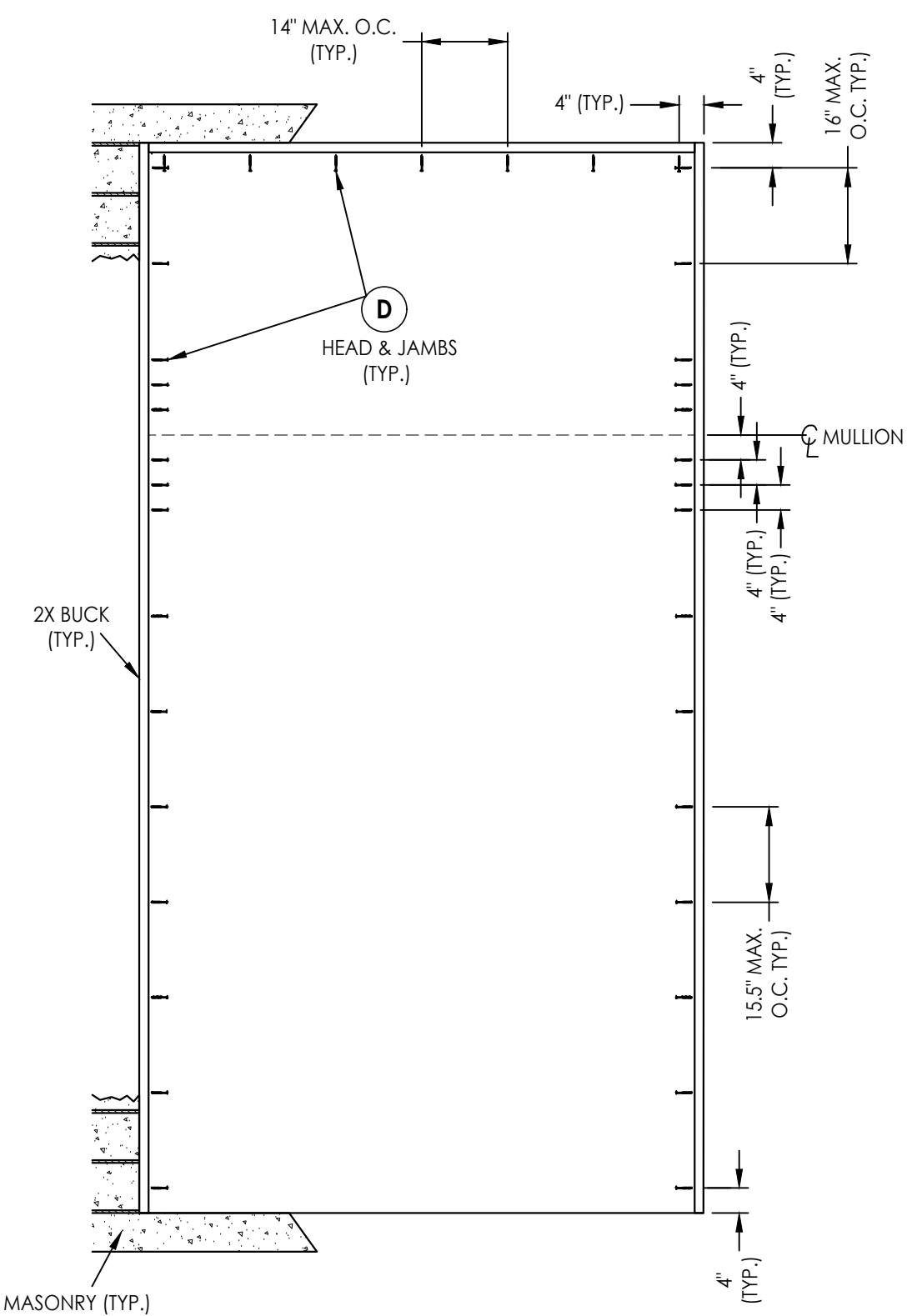
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2X BUCK ANCHORING
O/XX (Arch Top Transom)



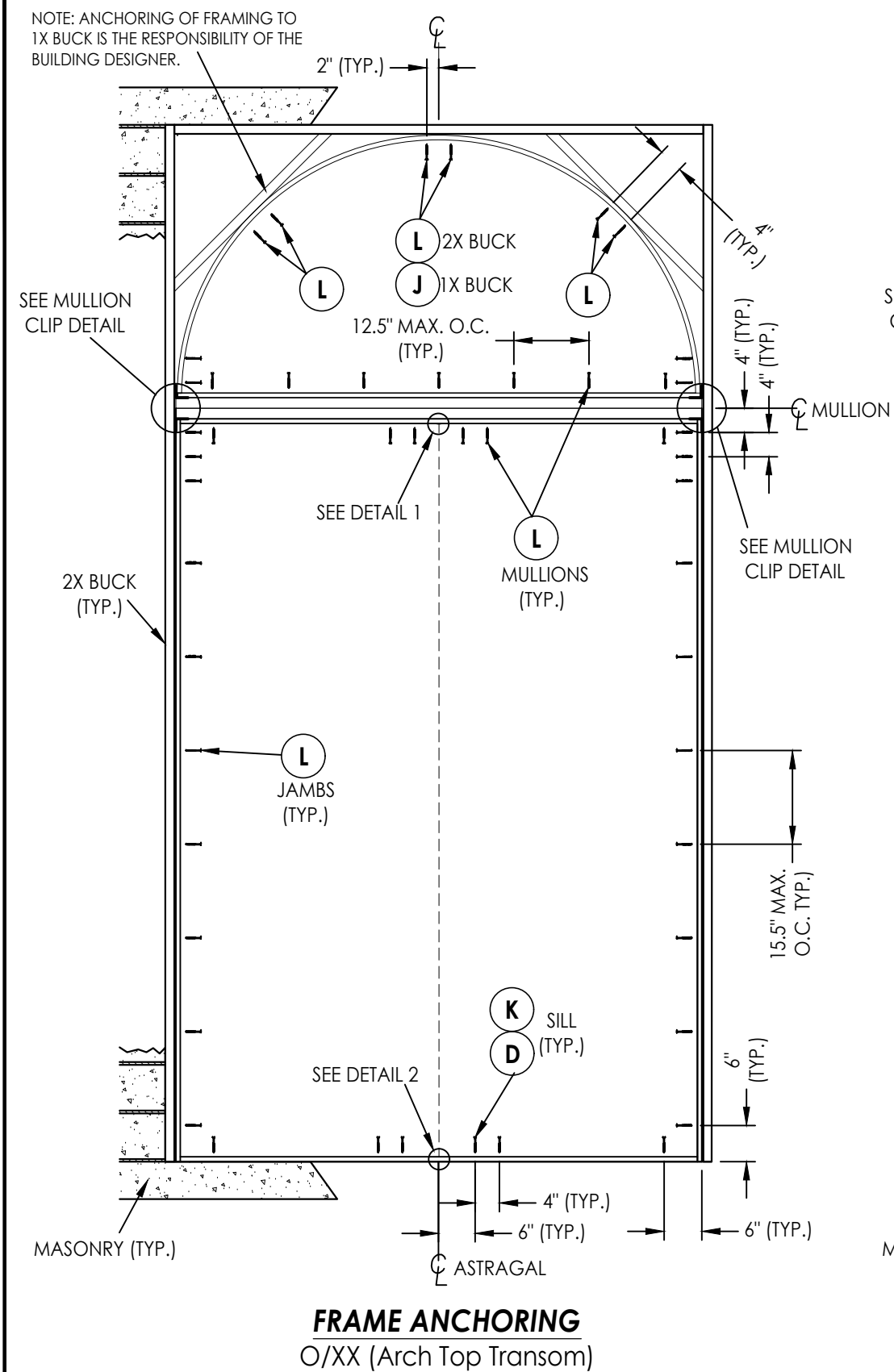
2X BUCK ANCHORING
O/XX

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

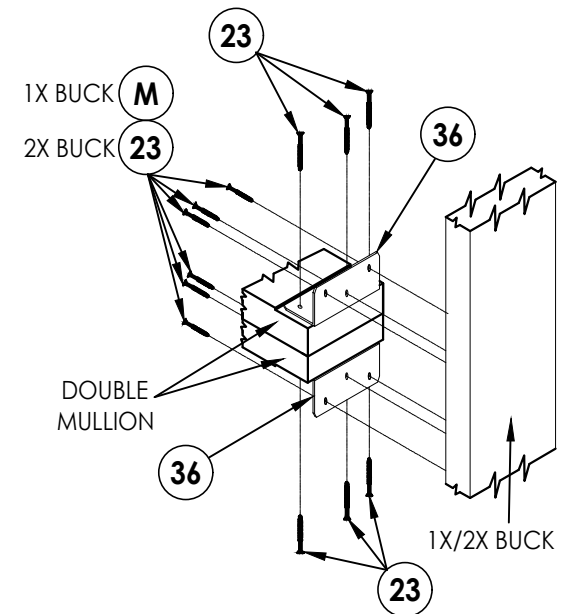
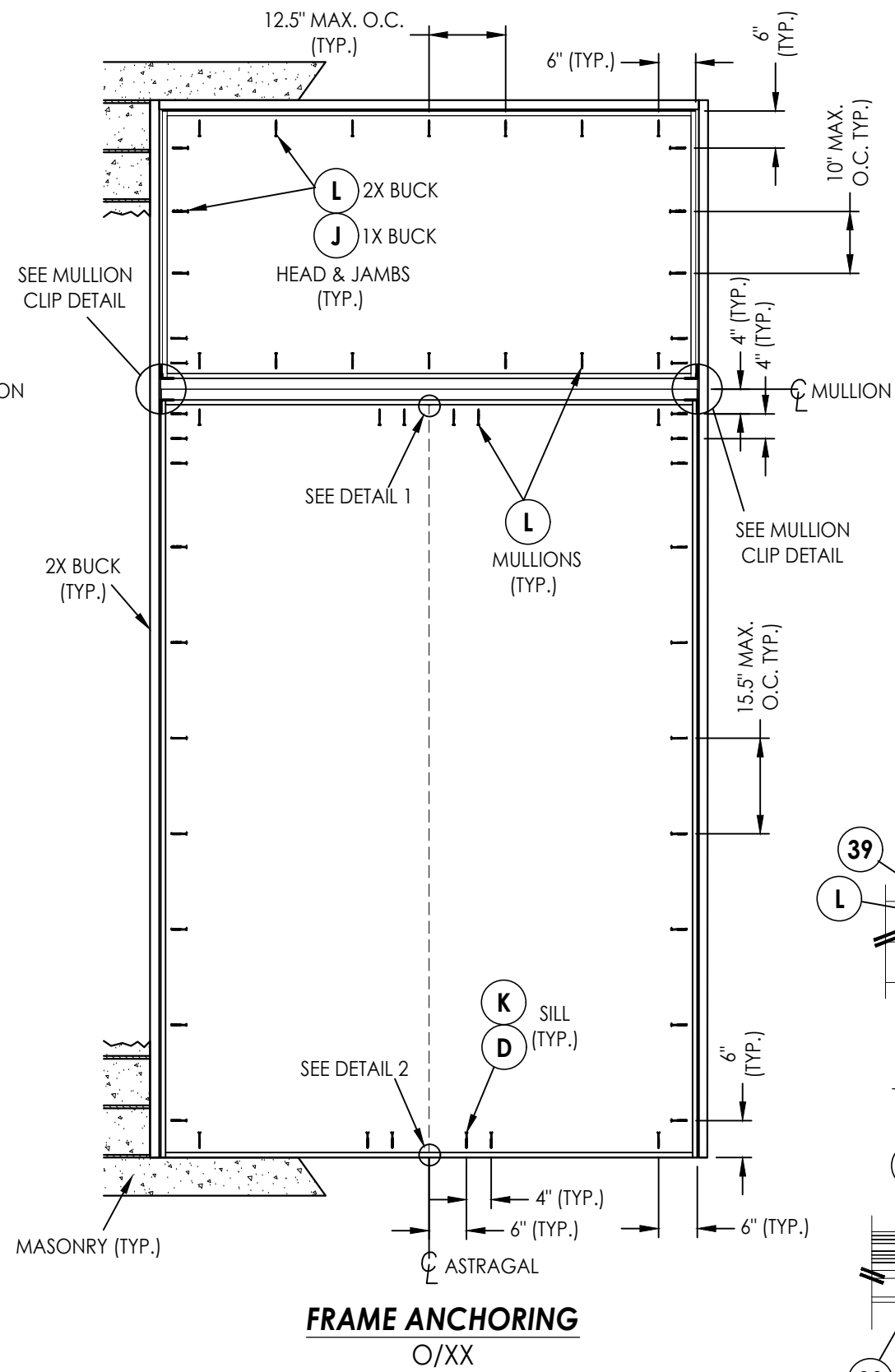
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SCALE:	N.T.S.			
DWG. BY:	JK			
CHK. BY:	LFS			
DRAWING NO.:	FL-22347.11			
SHEET	9	OF	12	

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

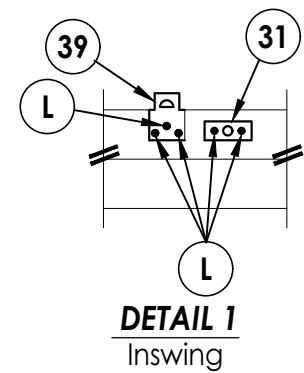
Documents Prepared By:	Lyndon F. Schmidt
	P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.	P.O. Box 230, Valrico, FL 33595
	Phone No.: 813.659.9197
FBPE Registry No. 9813	



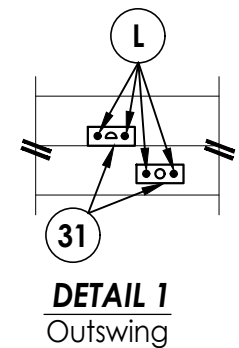
NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH
DEEP THREAD WOOD SCREWS @ SILL.



DOUBLE MULLION CLIP DETAIL

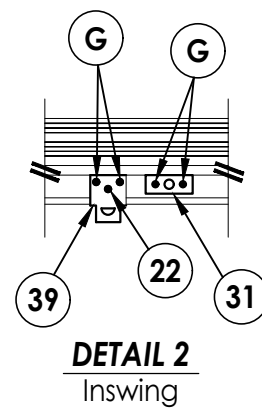


DETAIL 1
Inswing



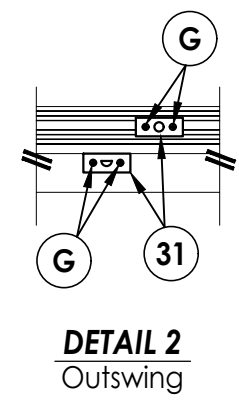
DETAIL 1

Outswing



DETAIL 2

Inswing



DETAIL 2

Outswing

DATE: 5/10/17				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			
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-22347.11							
SHEET 10 OF 12				PRODUCT: Builders FirstSource WOOD DOOR			
				PART OR ASSEMBLY: FRAME ANCHORING			

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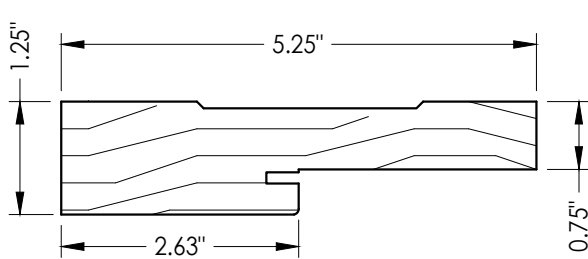
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
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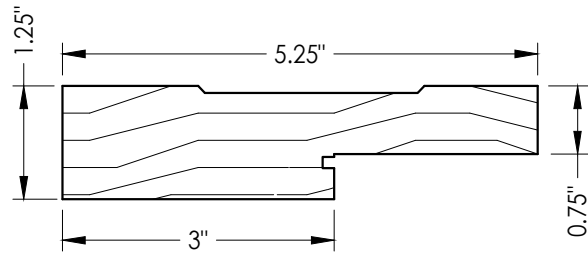
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW 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
4	MULLION	LVL
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
14	OUTSWING THRESHOLD	ALUM/WOOD/COMP
15	INSWING THRESHOLD	ALUM/WOOD/COMP
22	#8 X 1-1/4" PFH WOOD SCREW	STEEL
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	MULLION ANGLE CLIP (USP ML24-TZ)	STEEL
38	SURFACE BOLT (EMTEK 8513 - 18" LONG)	STEEL
39	SURFACE BOLT STRIKE PLATE (INSWING)	STEEL
40	DOOR PANEL	WOOD
41	DOOR PANEL	WOOD
50	SIDELITE PANEL	WOOD
51	SIDELITE PANEL (DIRECT SET)	WOOD
70	TRANSOM PANEL	WOOD

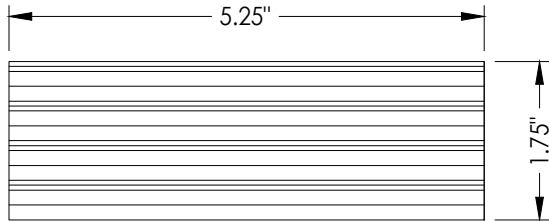
WOOD FRAME COMPONENTS: SIPO (UTILE) (G = 0.53)



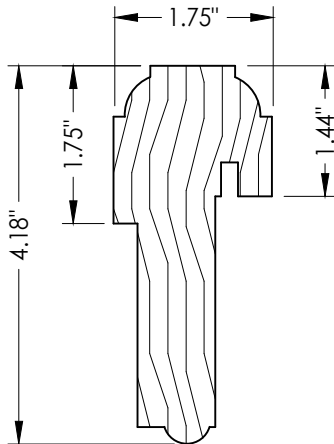
1 WOOD JAMB (DOOR)



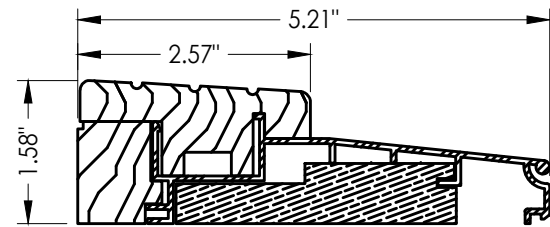
2 WOOD JAMB (SIDELITE)



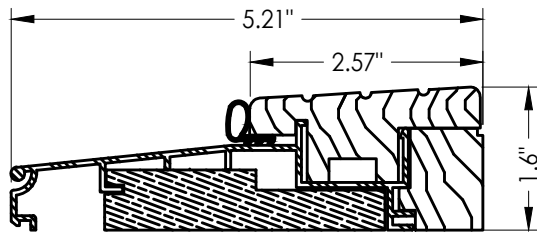
4 MULLION VERSA-LAM® 3100 Fb-2.0E



35 ASTRAGAL



15 INSWING THRESHOLD WORLDWIDE



14 OUTSWING THRESHOLD WORLDWIDE

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"	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.

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

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FBPE Registry No. 9813

PRODUCT:
Builders FirstSource
WOOD DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

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

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-22347.11

SHEET 12 OF 12