

Z:\2023 FBC Drawings\Millwork 360\FL-21891 R5\FL-21891.9-11.dwg



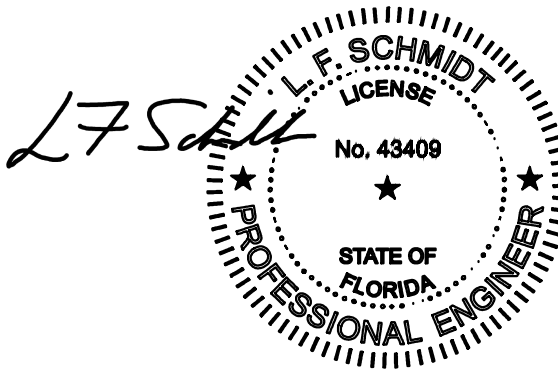
IMPACT 360 SERIES
WOOD GLAZED OR OPAQUE
DOUBLE DOOR
w/ or w/out SIDELITES
INSWING/OUTSWING
"IMPACT"

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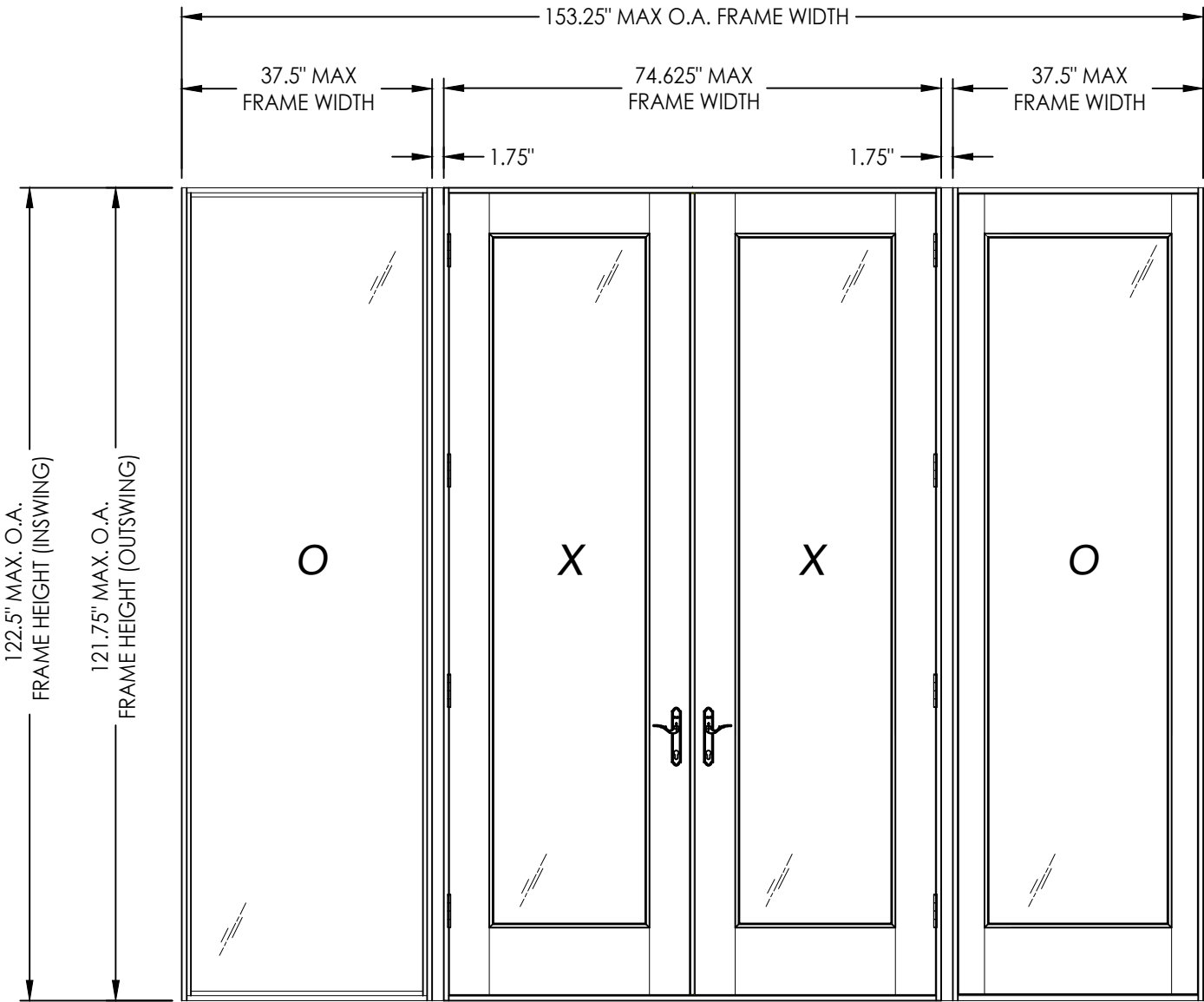
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Door Panel Details
4	Sidelite Panel Details
5	Glazing & Panel Infil Details
6	Elevations
7	Horizontal & Vertical Cross Sections (2X Buck)
8	Horizontal & Vertical Cross Sections (1X Buck)
9	Horizontal & Vertical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



Digitally signed by Lyndon F Schmidt
Date: 2023.08.08 15:39:19 -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

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

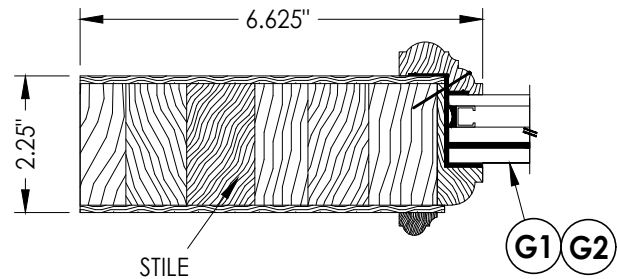
PRODUCT: MILLWORK 360
WOOD DOOR

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

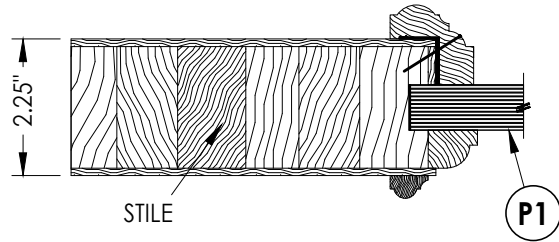
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		BY	JK	LFS	LFS
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2	9/01/20	UPDATE TO 7TH ED. (2020)	FBC		
1	10/03/17	UPDATE TO 6TH ED. (2017)	FBC		

DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-21891.9
SHEET 1 OF 14

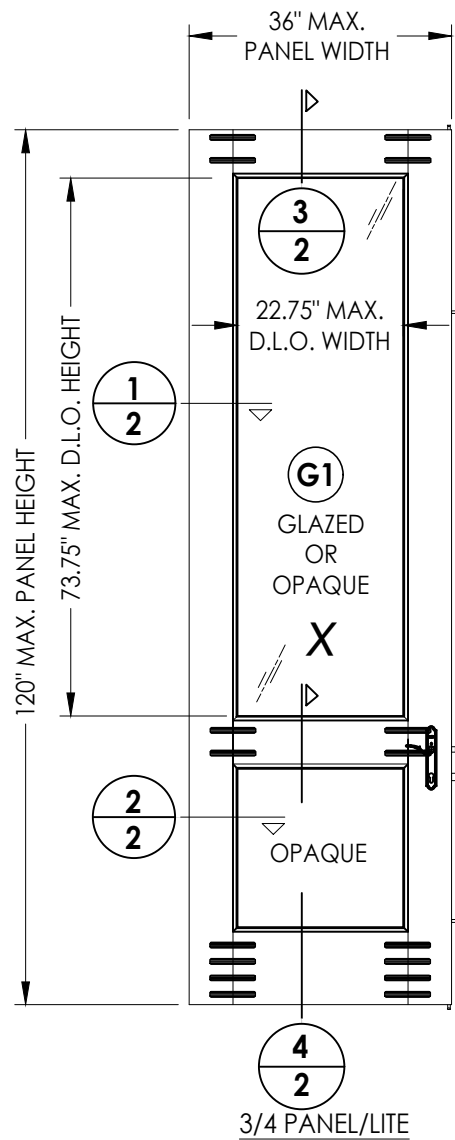
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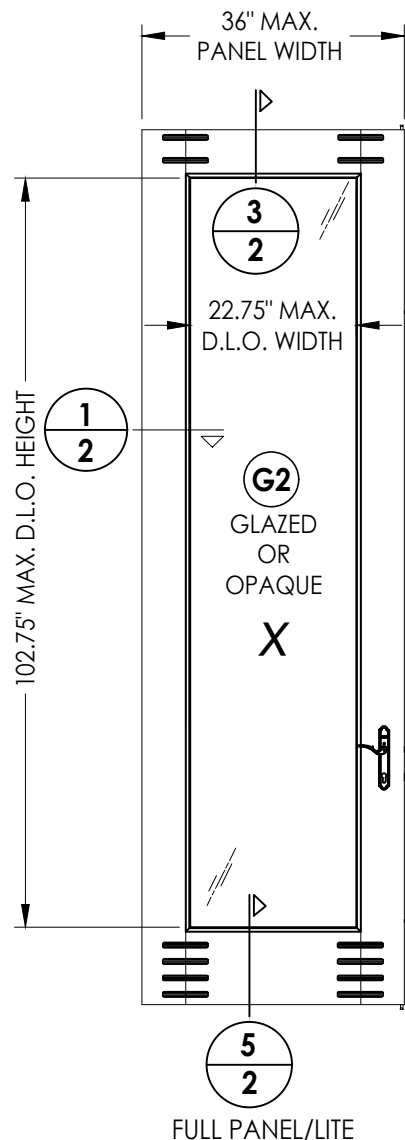
1
2 HORIZONTAL CROSS SECTION



2
2 HORIZONTAL CROSS SECTION



3/4 PANEL/LITE



FULL PANEL/LITE

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

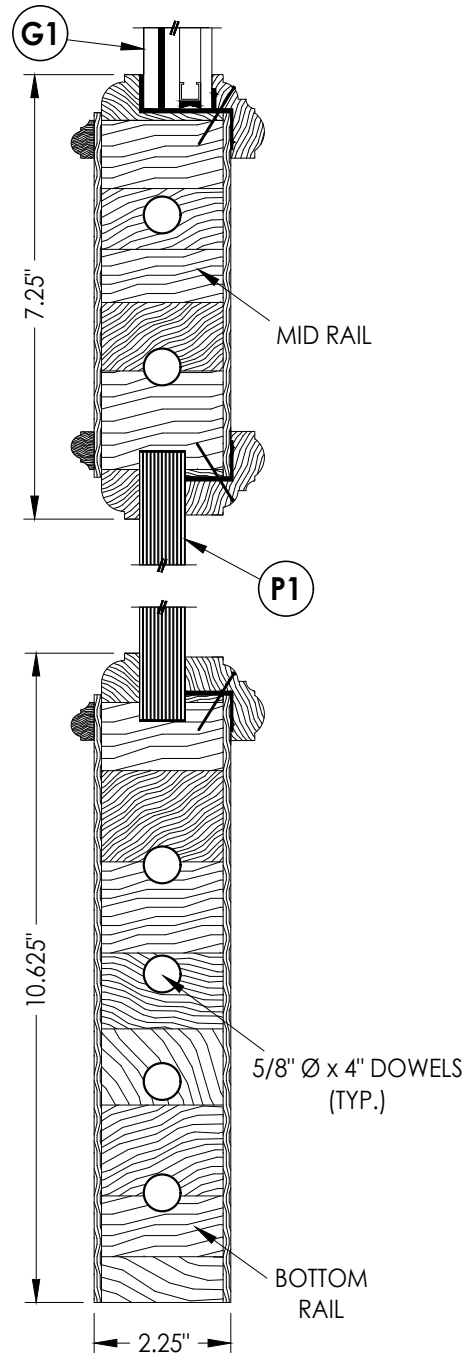
WOOD DOOR COMPONENTS:

ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)

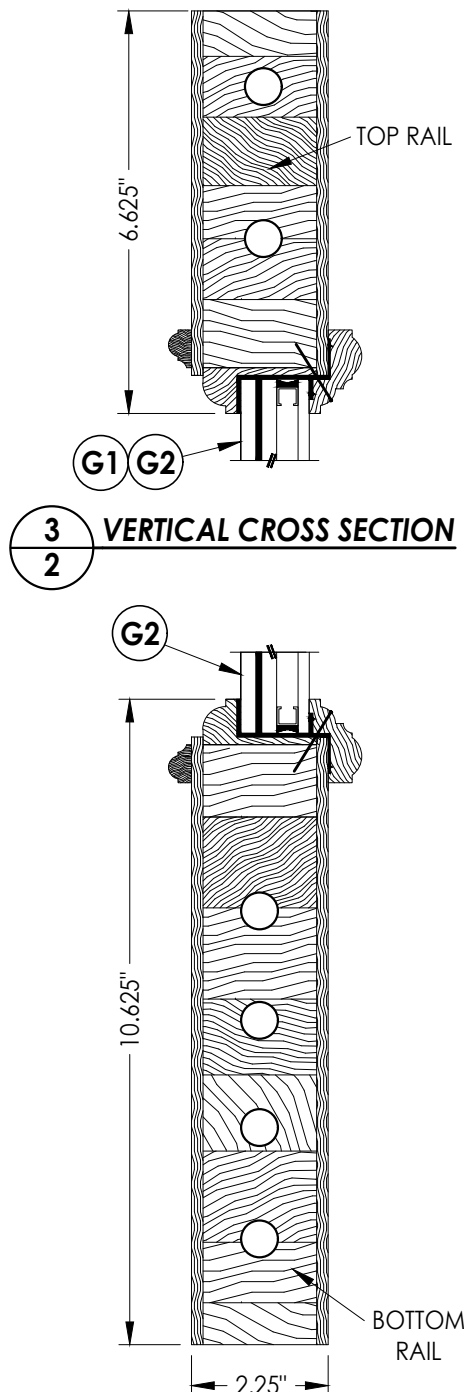
VENEER/EDGES: CYPRESS (G = 0.42)

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:
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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:
MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
DOOR PANEL
DETAILS

NO.	DATE	REVISIONS
3	8/08/23	UPDATE TO 8TH ED. (2023) FBC LFS
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1	10/03/17	UPDATE TO 6TH ED. (2017) FBC JK
		BY

DATE:	4/03/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21891.9
SHEET	2 OF 14

Technical drawing of a wooden stilet. The drawing shows a side view of the stilet, which is a long, narrow, tapered piece of wood. The dimensions are given as 6.625" in length and 2.25" in width. The word "STILE" is written below the drawing with a leader line pointing to the main body. A circular callout labeled "P2" is shown at the right end of the stilet, indicating a specific part or feature.

Diagram illustrating the dimensions and components of a window unit:

- Overall Dimensions:**
 - 120" MAX. PANEL HEIGHT
 - 36" MAX. PANEL WIDTH
 - 73.75" MAX. D.L.O. HEIGHT
 - 22.75" MAX. D.L.O. WIDTH
- Callouts:**
 - 1 3**: Callout for the top lite.
 - 2 3**: Callout for the bottom lite.
 - 3 3**: Callout for the top lite.
 - 4 3**: Callout for the bottom lite.
- Labels:**
 - G3**: Label for the top lite.
 - GLAZED OR OPAQUE**: Label for the top lite.
 - X**: Label for the top lite.
 - OPAQUE**: Label for the bottom lite.
- Bottom Label:** 3/4 PANEL/LITE

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 top of the inner frame.
- Labels and Markings**:
 - 3/3**: Label in a circle at the top center.
 - 1/3**: Label in a circle on the left side.
 - G3**: Label in a circle in the center.
 - GLAZED OR OPAQUE**: Text below the G3 label.
 - X**: Large letter X in the center.
 - 5/3**: Label in a circle at the bottom center.
- FULL PANEL/LITE**: Label at the bottom of the diagram.

The image contains two technical drawings of handrail assemblies, labeled G1 and P2, showing cross-sections and dimensions.

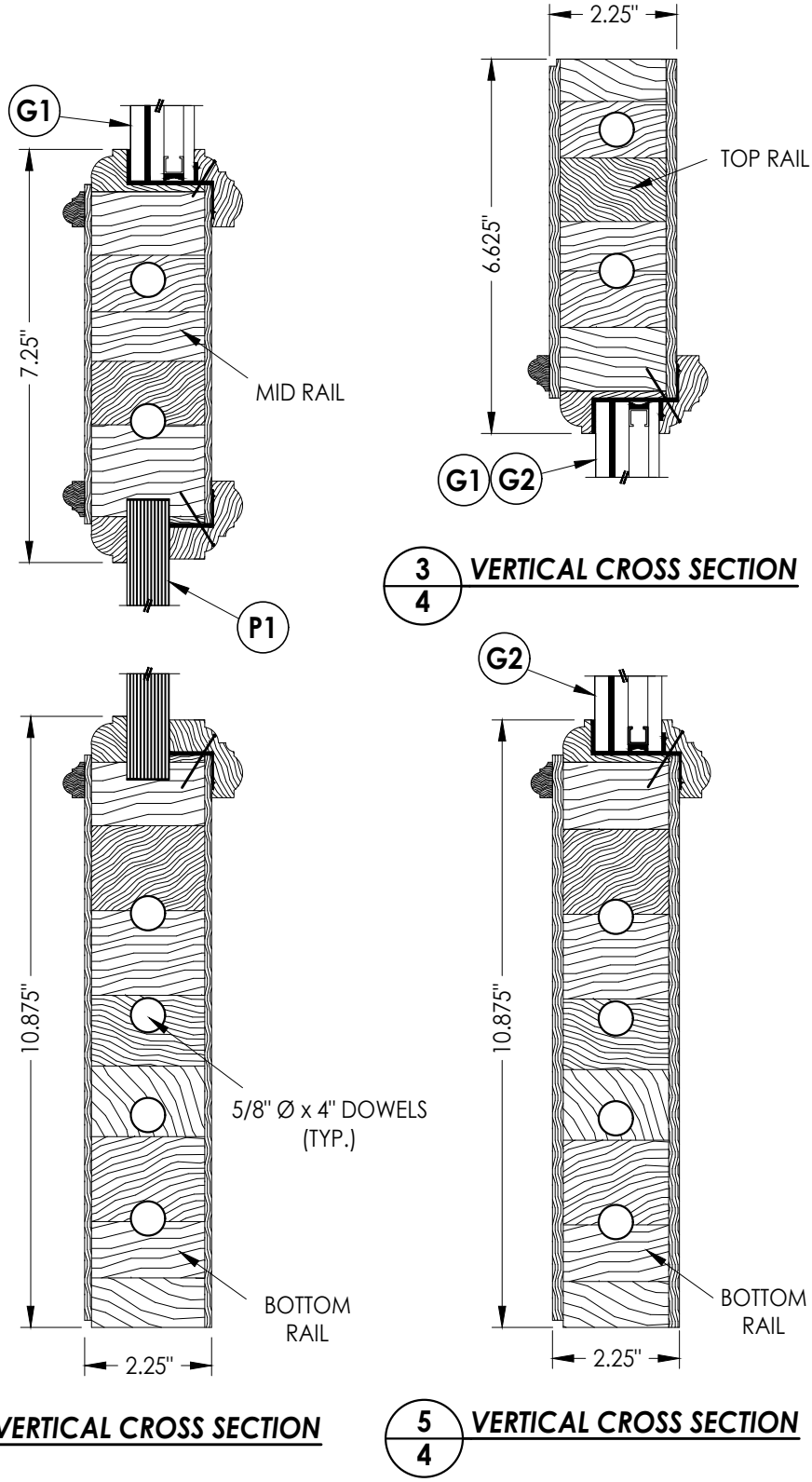
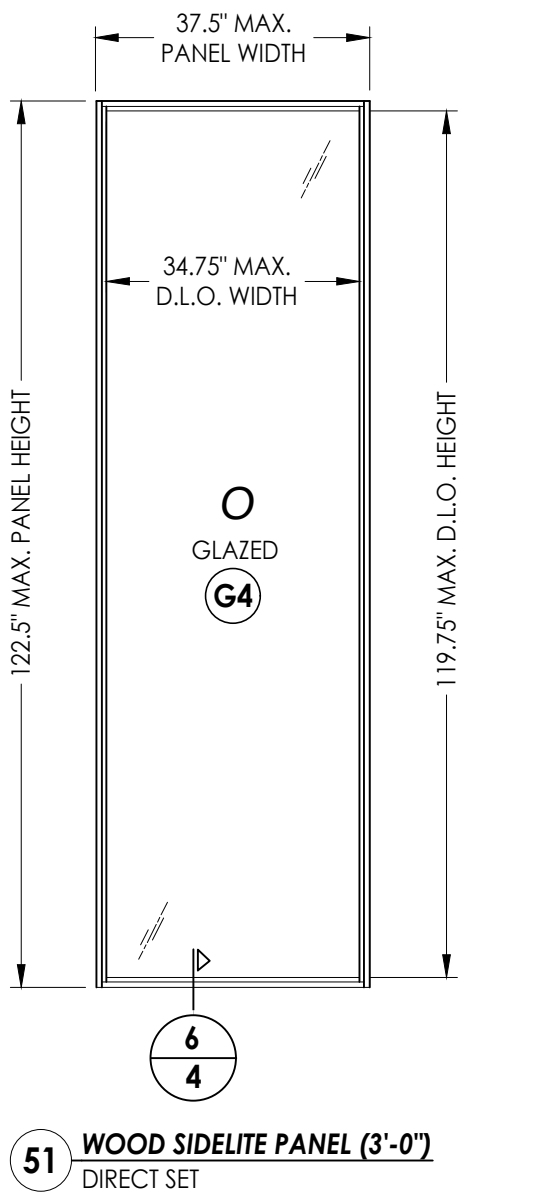
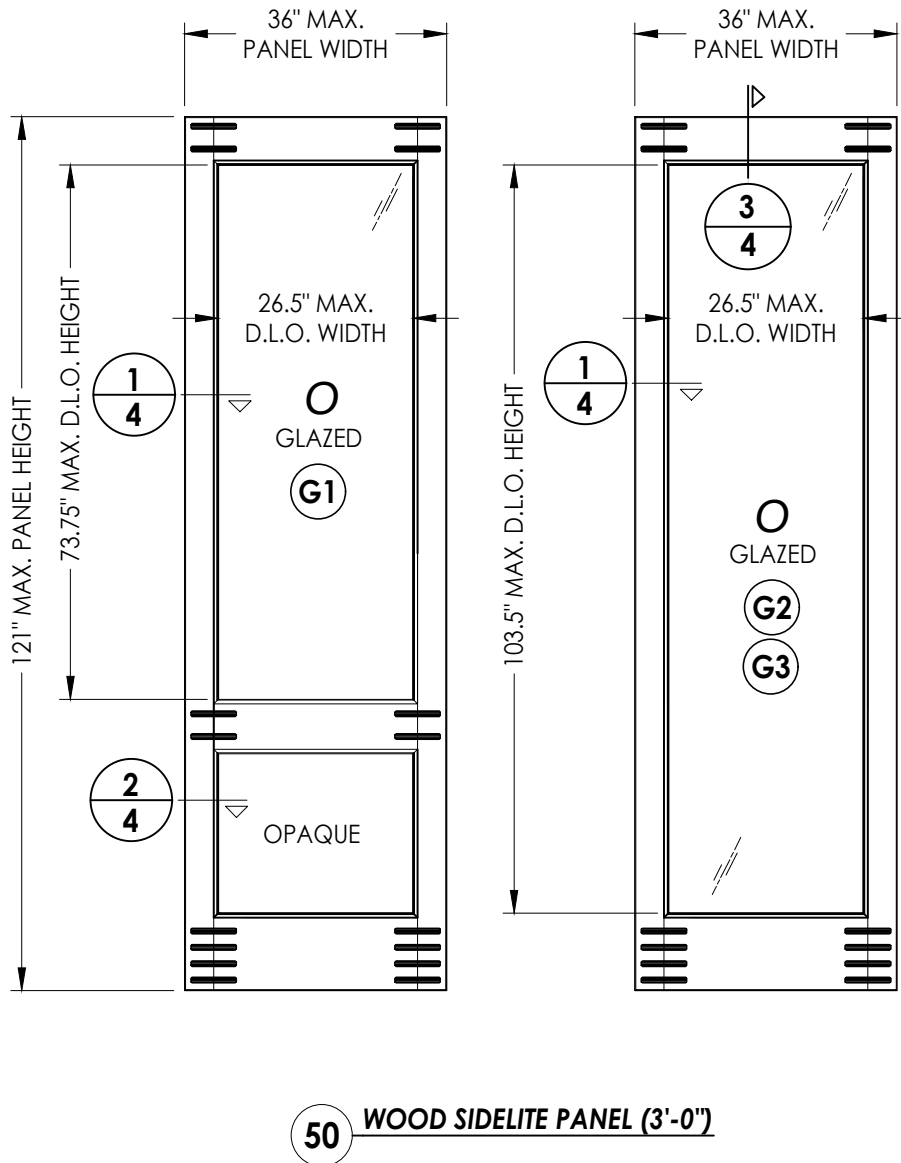
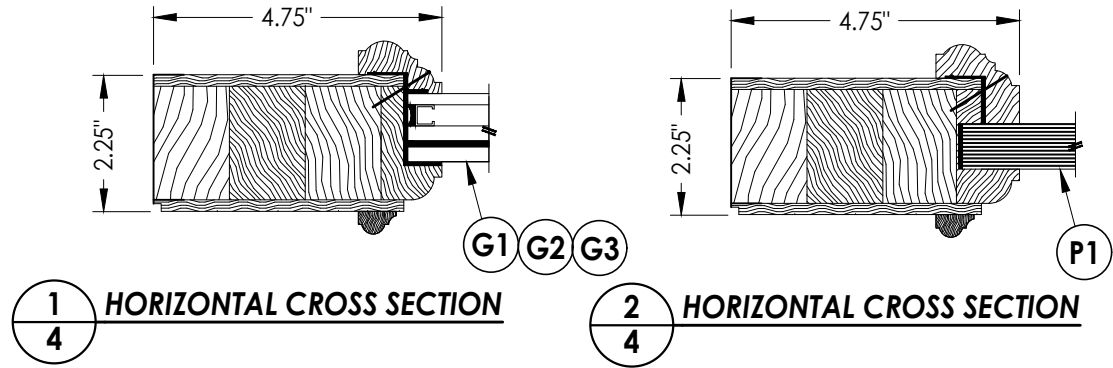
Assembly G1: This assembly has a total height of 7.25". It features a top cap with a central hole, a mid rail with two circular cross-sections, and a bottom rail. The top cap is labeled G1.

Assembly P2: This assembly has a total height of 10.625" and a width of 2.25". It features a top cap with a central hole, a mid rail with two circular cross-sections, and a bottom rail. The top cap is labeled P2. The mid rail is labeled MID RAIL. The bottom rail is labeled BOTTOM RAIL. The assembly is secured with 5/8" Ø x 4" DOWELS (TYP.) which are shown as circular cross-sections within the rail sections.

Diagram showing the vertical cross section of the top and bottom rails of a door assembly. The top rail is shown with a height dimension of 6.625" and a label "TOP RAIL". The bottom rail is shown with a height dimension of 10.625" and a label "BOTTOM RAIL". A dimension line indicates a width of 2.25" for the bottom rail. A callout "G3" points to a specific feature on the bottom rail.

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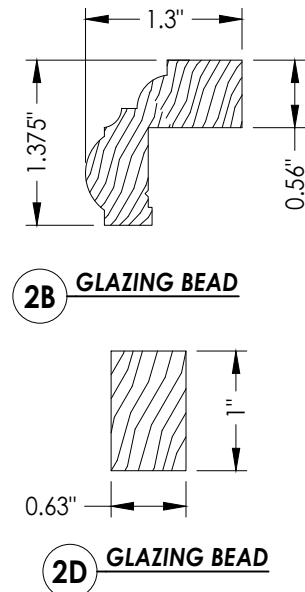
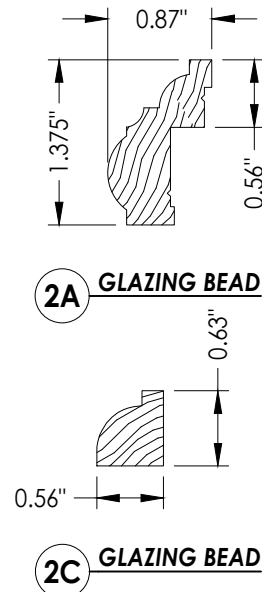
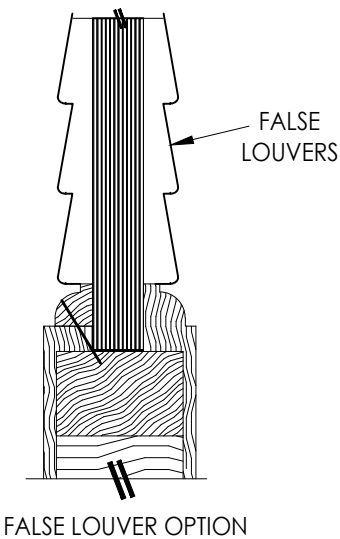
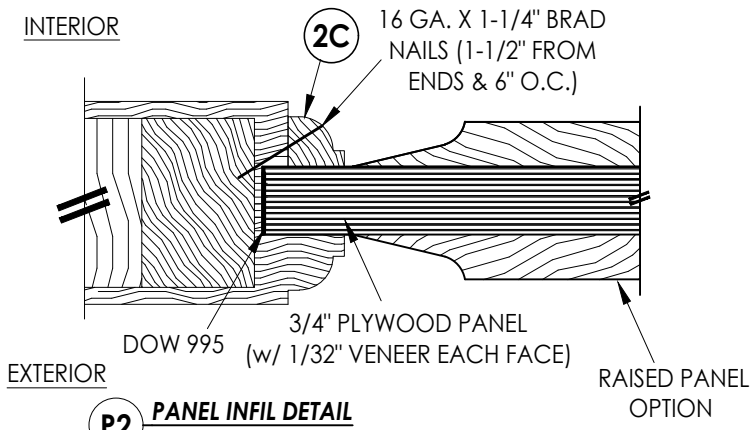
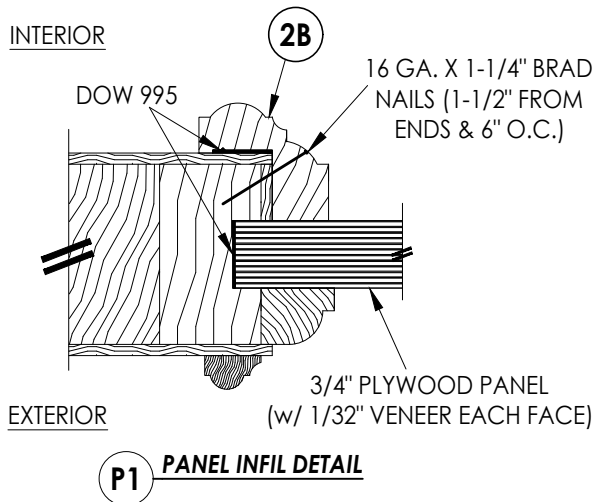
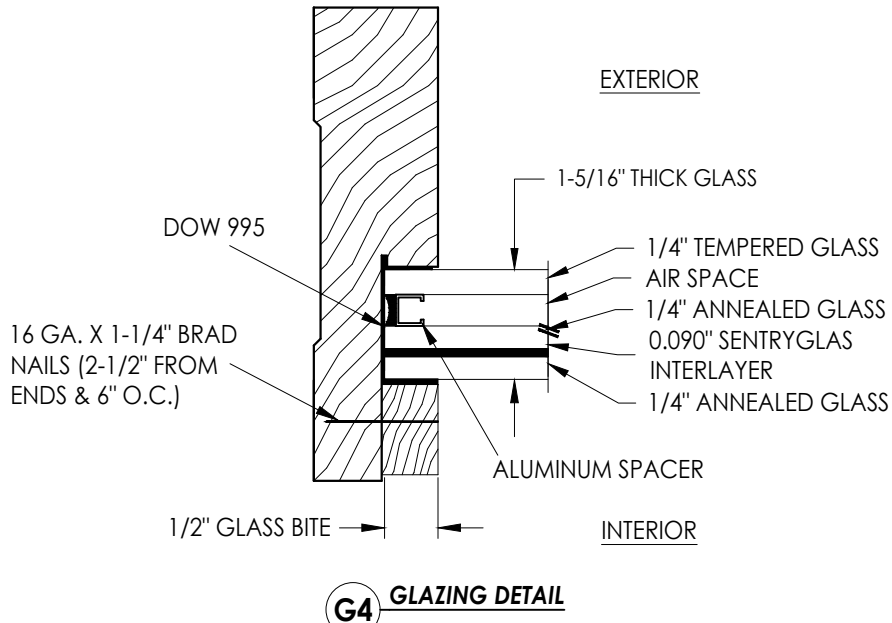
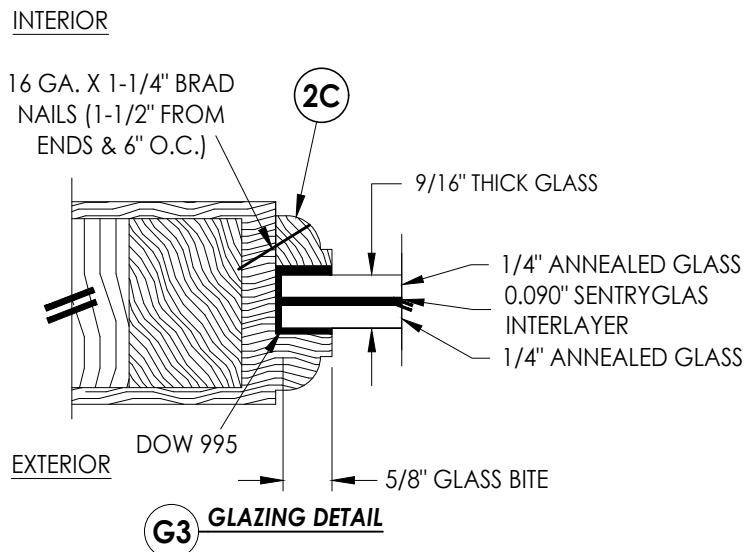
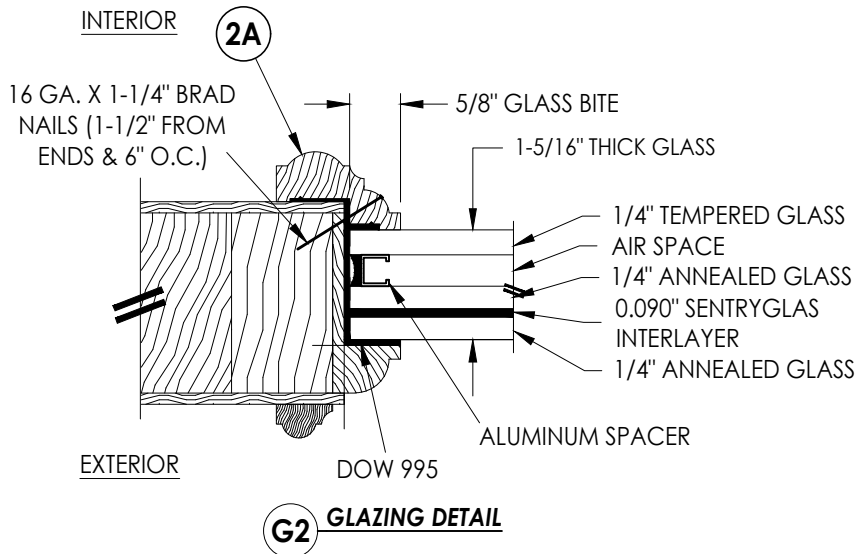
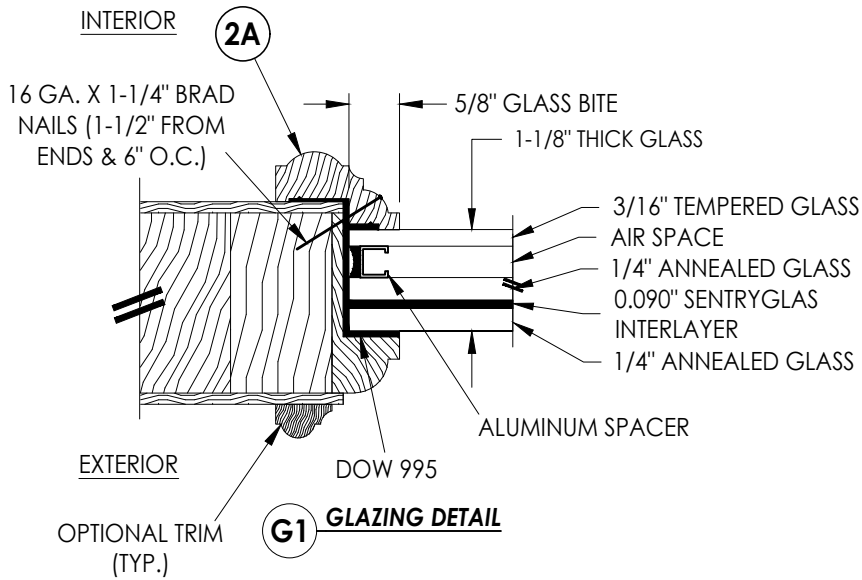
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WOOD SIDELITE COMPONENTS:
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)
VENEER/EDGES: CYPRESS (G = 0.42)
NOTE: VENEER/EDGE MAY INCLUDE OAK, CHERRY, WALNUT OR
OTHER OPTIONAL HARDWOOD SPECIES w/ G >= 0.42.

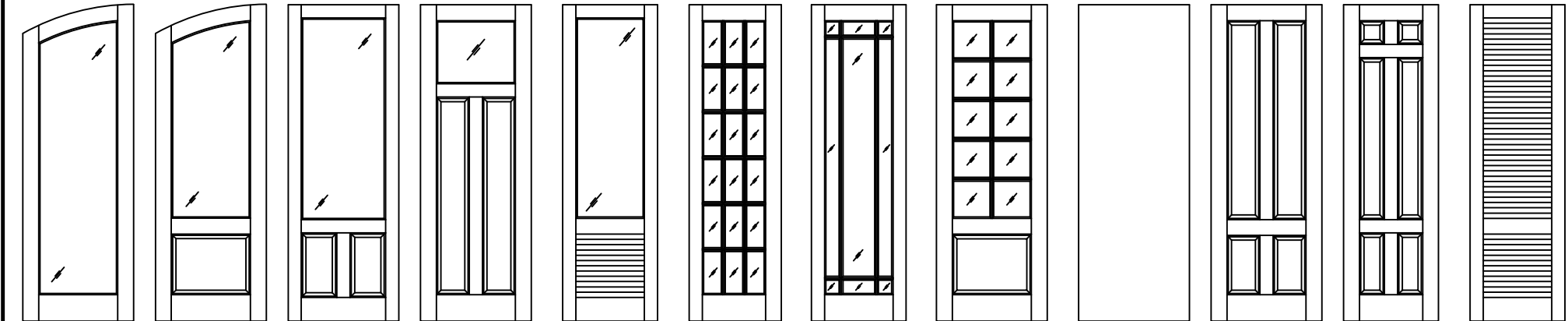
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813				
PRODUCT: MILLWORK 360 WOOD DOOR				PART OR ASSEMBLY: SIDELITE PANEL DETAILS				
				3	8/08/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
				2	9/01/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
				1	10/03/17	UPDATE TO 6th ED. (2017)	FBC	JK
				NO.	DATE			BY
				REVISIONS				
DATE: 4/03/17								
SCALE: N.T.S.								
DWG. BY: JK								
CHK. BY: LFS								
DRAWING NO.: FL-21891.9								
SHEET 4 OF 14								

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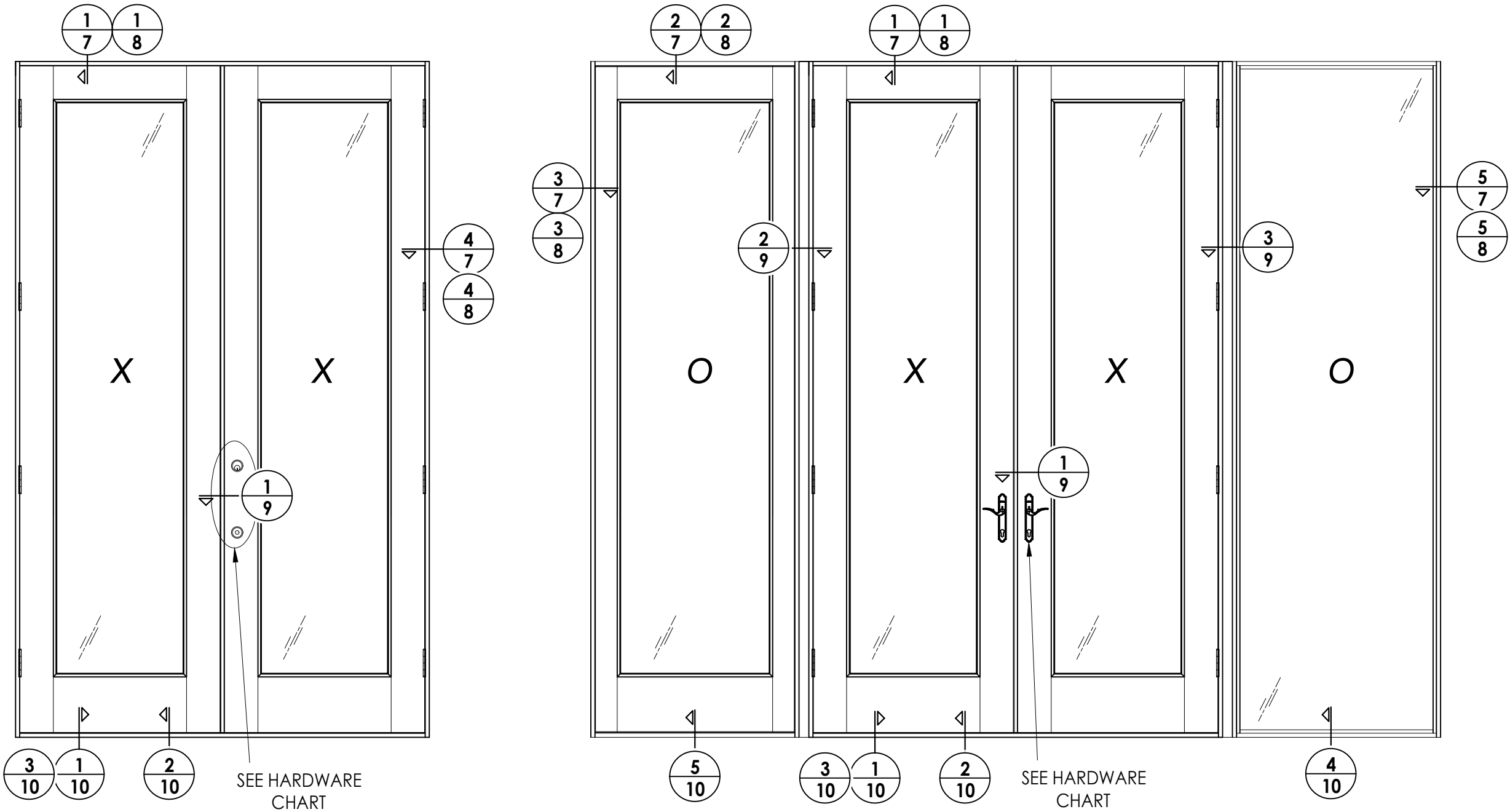
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PRODUCT: MILLWORK 360 WOOD DOOR		PART OR ASSEMBLY: GLAZING & PANEL INFIL DETAILS	
		LFS	JK
		FBC	FBC
		FBC	FBC
		FBC	FBC
		DATE	BY
		NO.	REVISIONS
DATE: 04/03/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21891.9			
SHEET 5 OF 14			

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Millwork 360 Door Panel Options

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



SEE HARDWARE
CHART

SEE HARDWARE
CHART

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

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3	8/08/23	UPDATE TO 8TH ED. (2023) FBC LFS
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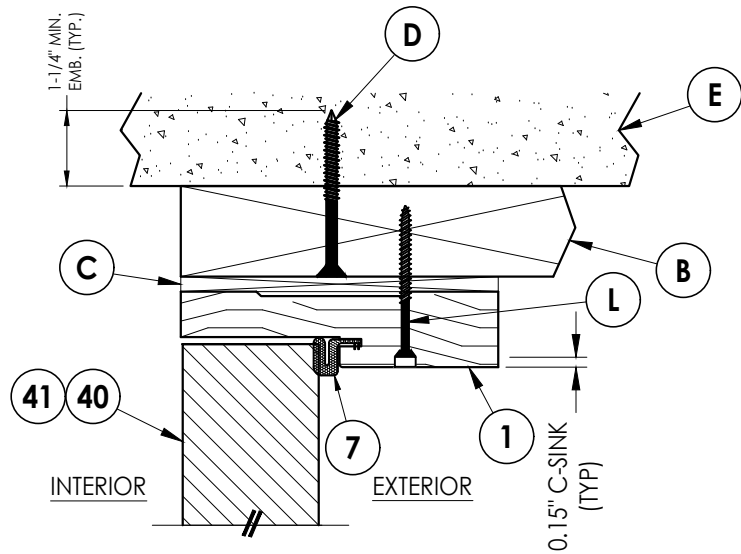
DATE: 04/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.9
SHEET 6 OF 14

PRODUCT:	MILLWORK 360 WOOD DOOR
PART OR ASSEMBLY:	ELEVATIONS

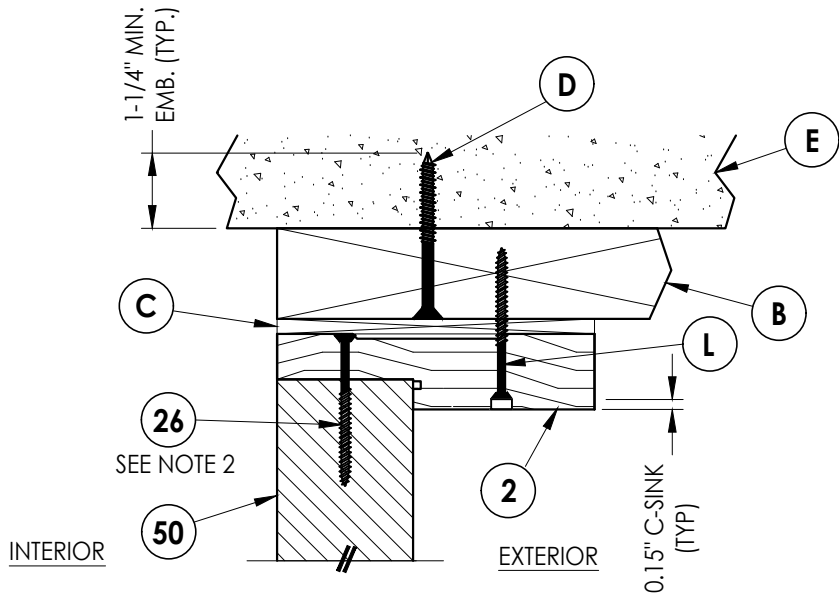
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813
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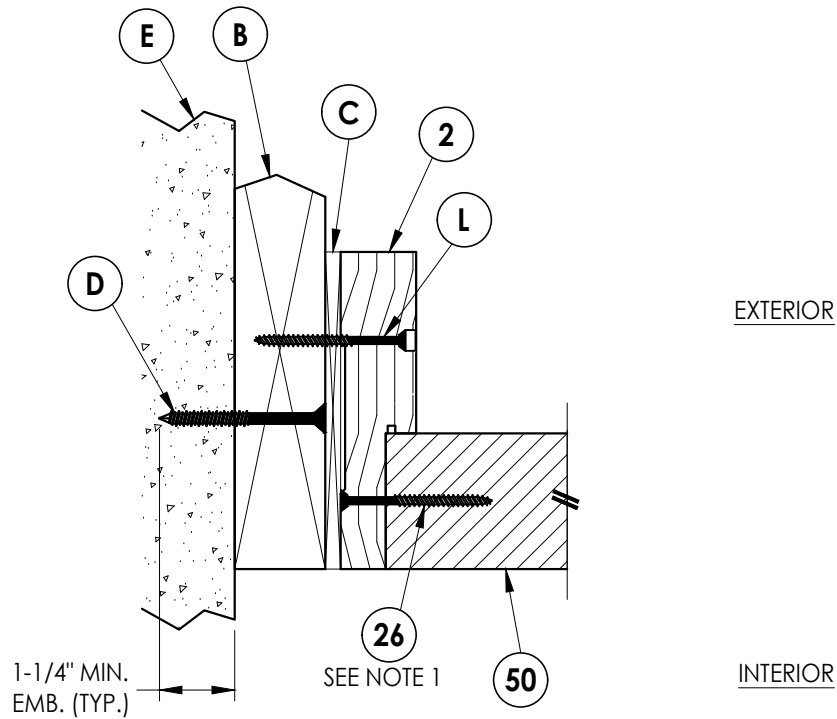
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- Item #26 located 4" from each end & 9 more equally spaced (11 total).
 - Item #26 located 4" from each end & 1 at the center line (3 total).



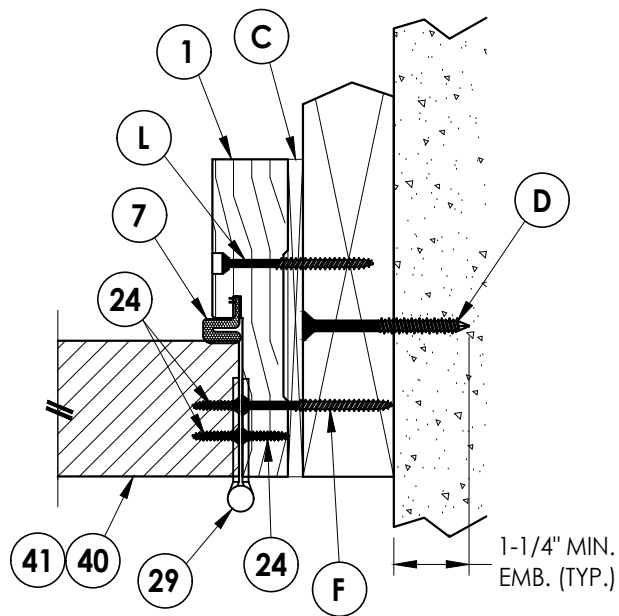
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Shown w/ 2X Buck
Inswing shown (Outswing similar)



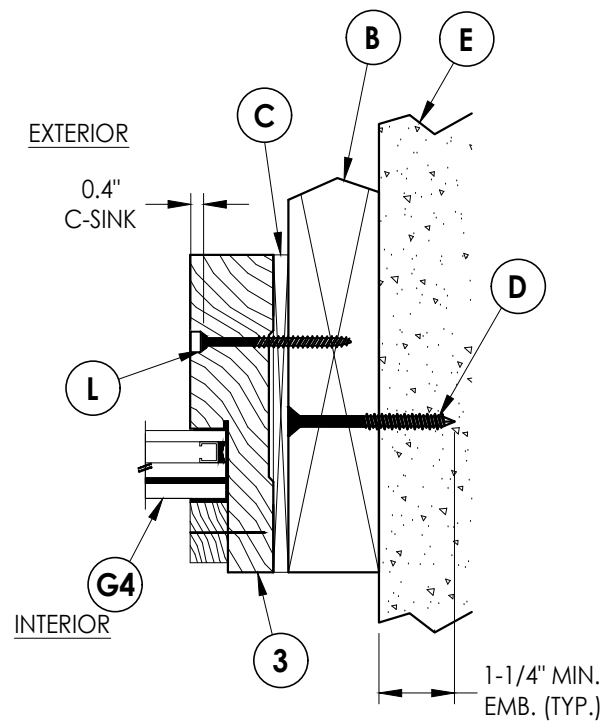
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7 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



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:
MILLWORK 360
WOOD DOOR

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

NO.	DATE	REVISIONS
3	8/08/23	UPDATE TO 8TH ED. (2023) FBC LFS
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1	10/03/17	UPDATE TO 6TH ED. (2017) FBC JK
		BY

DATE: 4/03/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

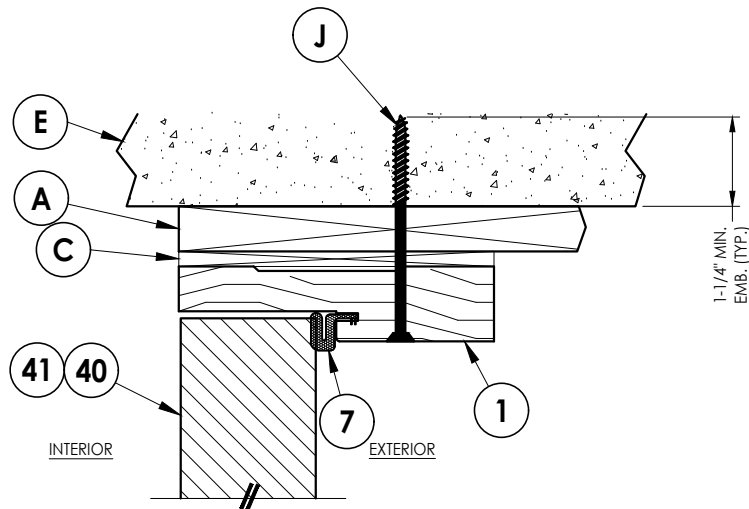
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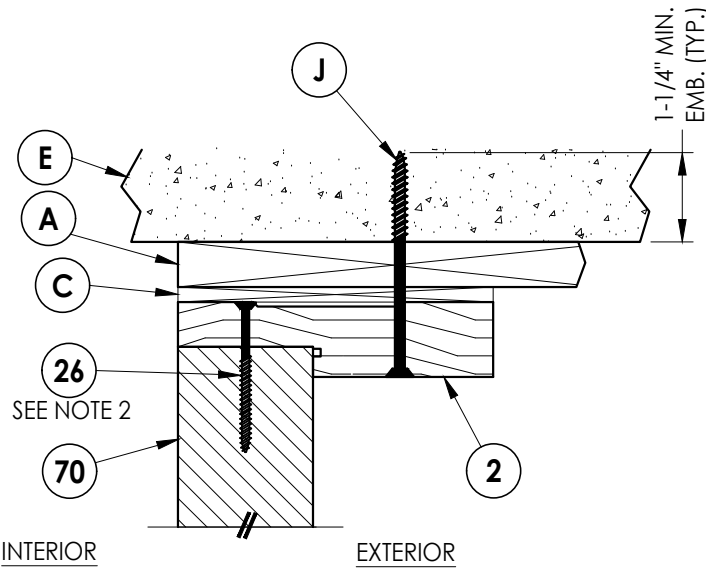
SHEET 7 OF 14

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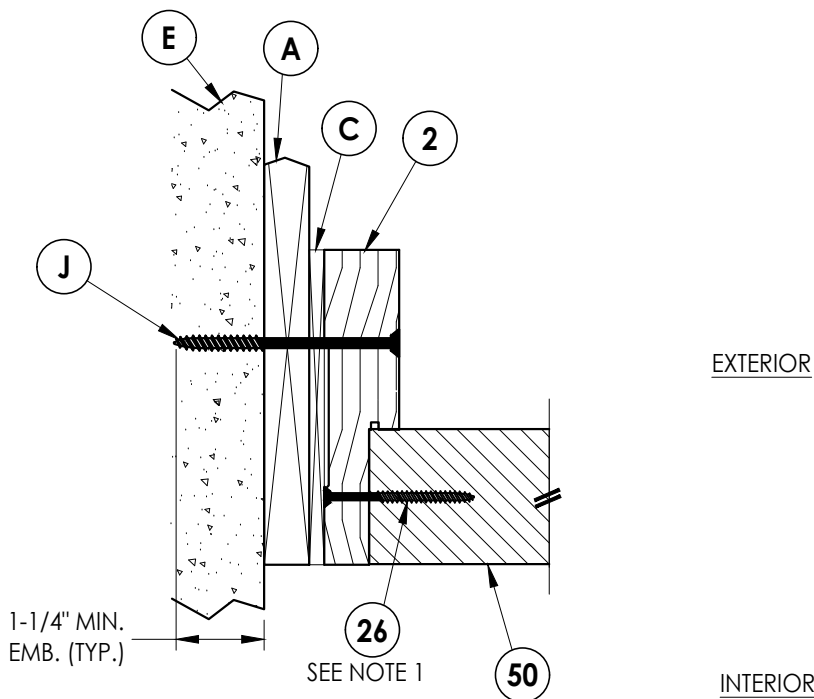
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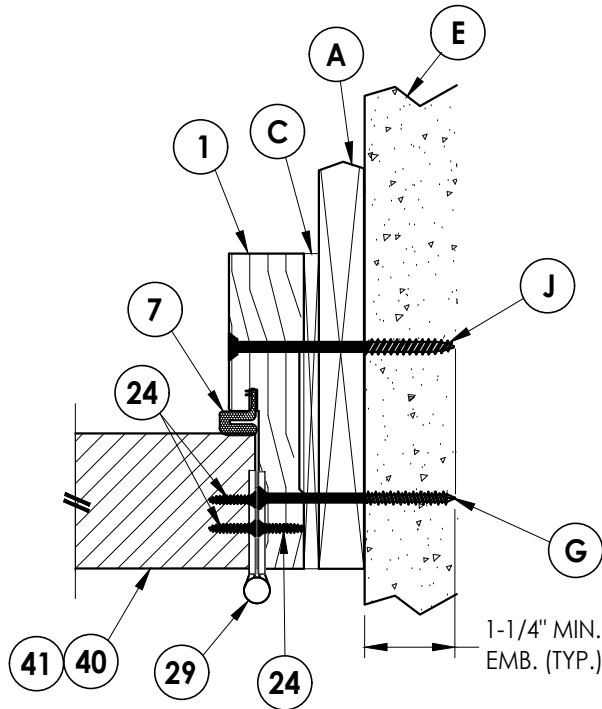
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8 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



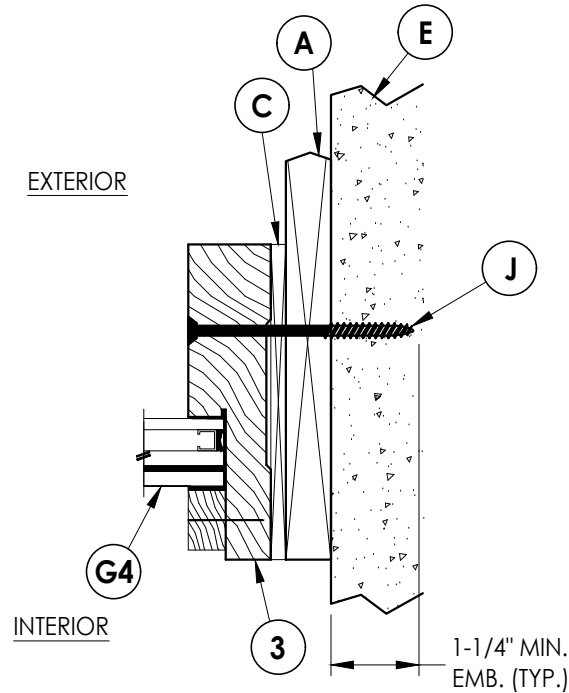
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8 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



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:
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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: MILLWORK 360
WOOD DOOR

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

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DATE: 4/03/17

SCALE: N.T.S.

DWG. BY: JK

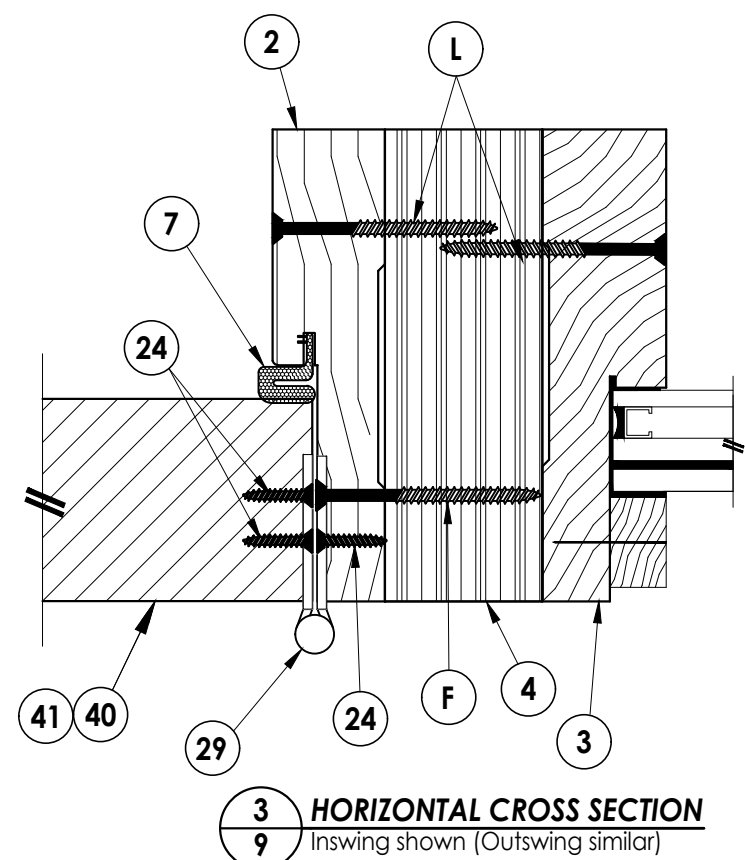
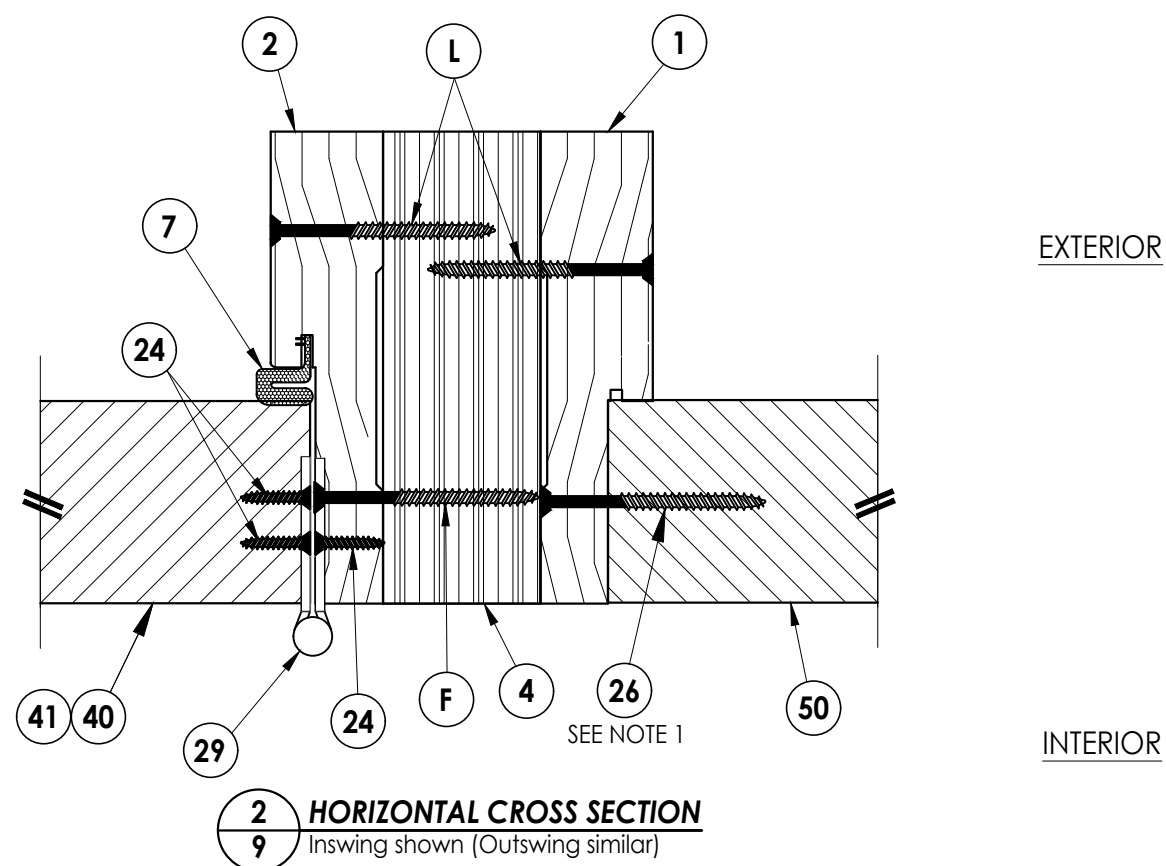
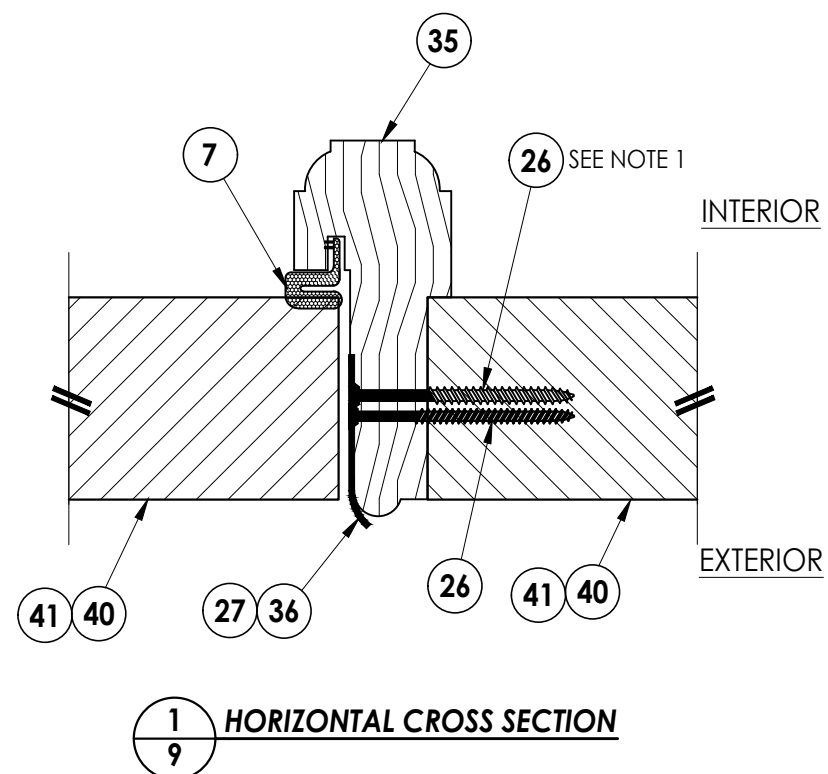
CHK. BY: LFS

DRAWING NO.:

FL-21891.9

SHEET 8 OF 14

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



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1	10/03/17	UPDATE TO 6th ED. (2017)	FBC		JK
NO.	DATE				BY
REVISIONS					

DATE: 4/03/17

SCALE: *N.T.S.*

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CHK. BY: *LFS*

DRAWING NO.:

FL-21891.9

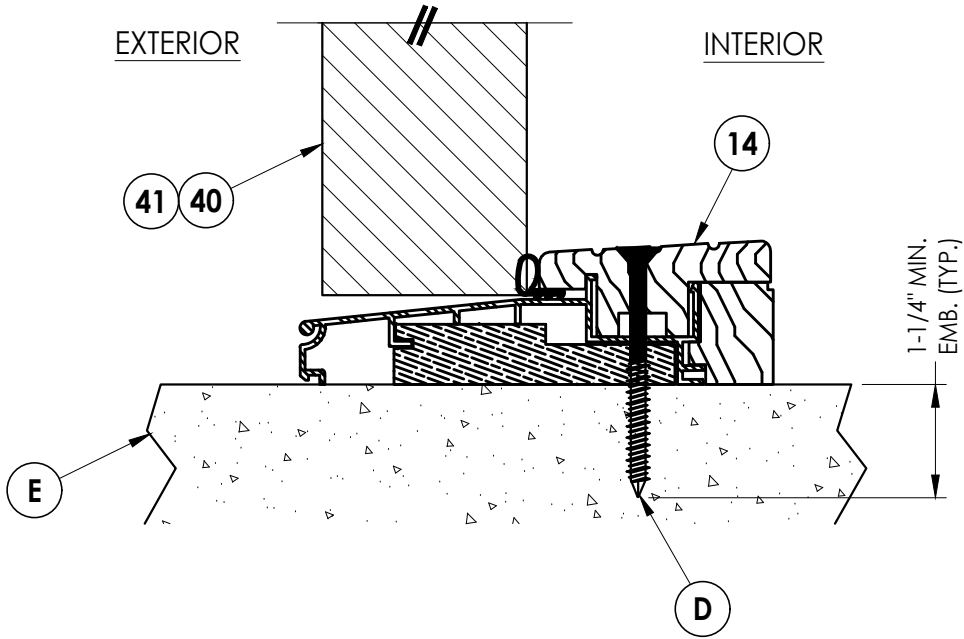
SHEET 9 OF 14

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

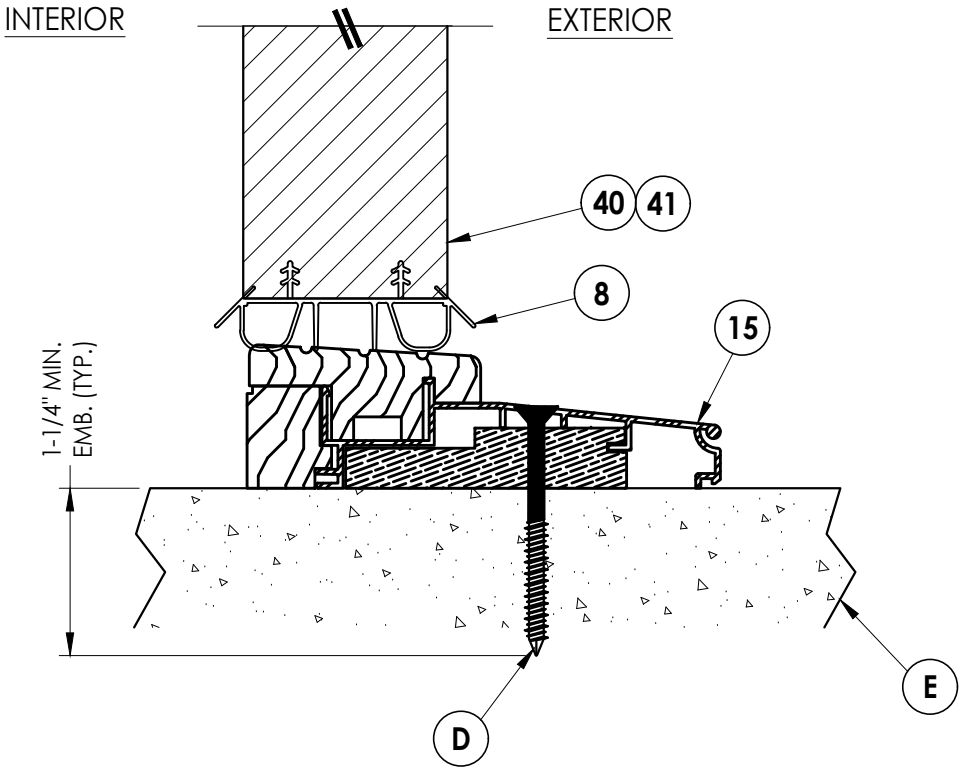
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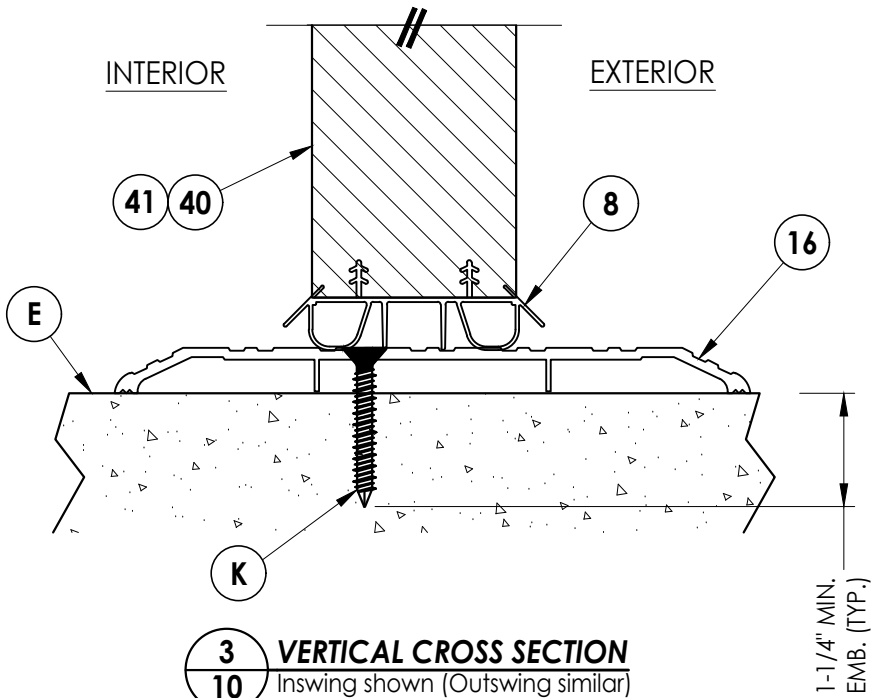
NOTES:
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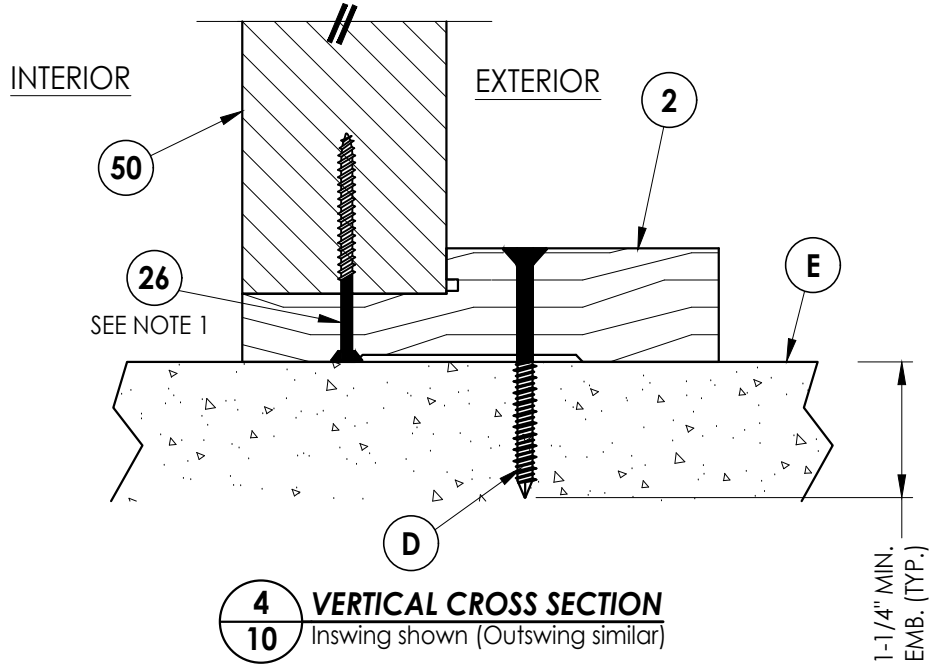
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Outswing



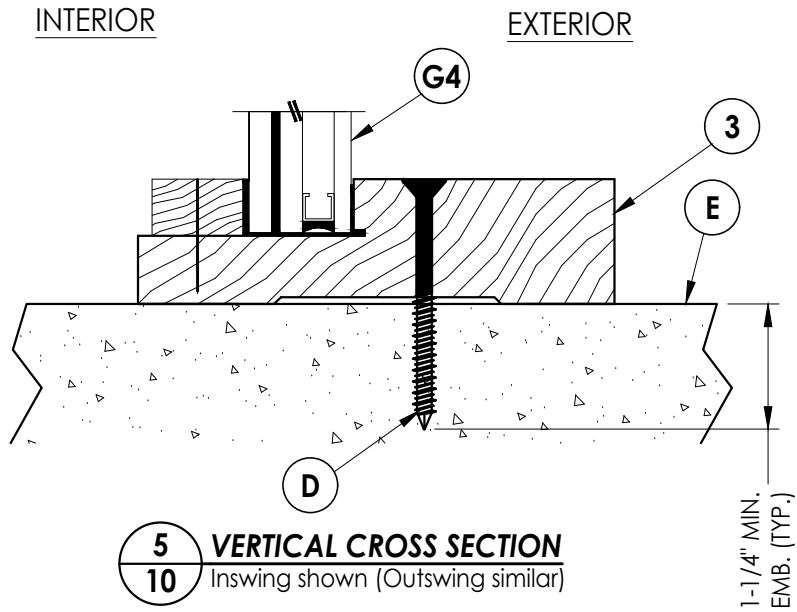
2
10 **VERTICAL CROSS SECTION**
Inswing



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: MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLD)

NO.	DATE	REVISIONS
3	8/08/23	UPDATE TO 8TH ED. (2023) FBC
2	9/01/20	UPDATE TO 7TH ED. (2020) FBC
1	10/03/17	UPDATE TO 6TH ED. (2017) FBC
NO.	DATE	BY

DATE: 4/03/17

SCALE: N.T.S.

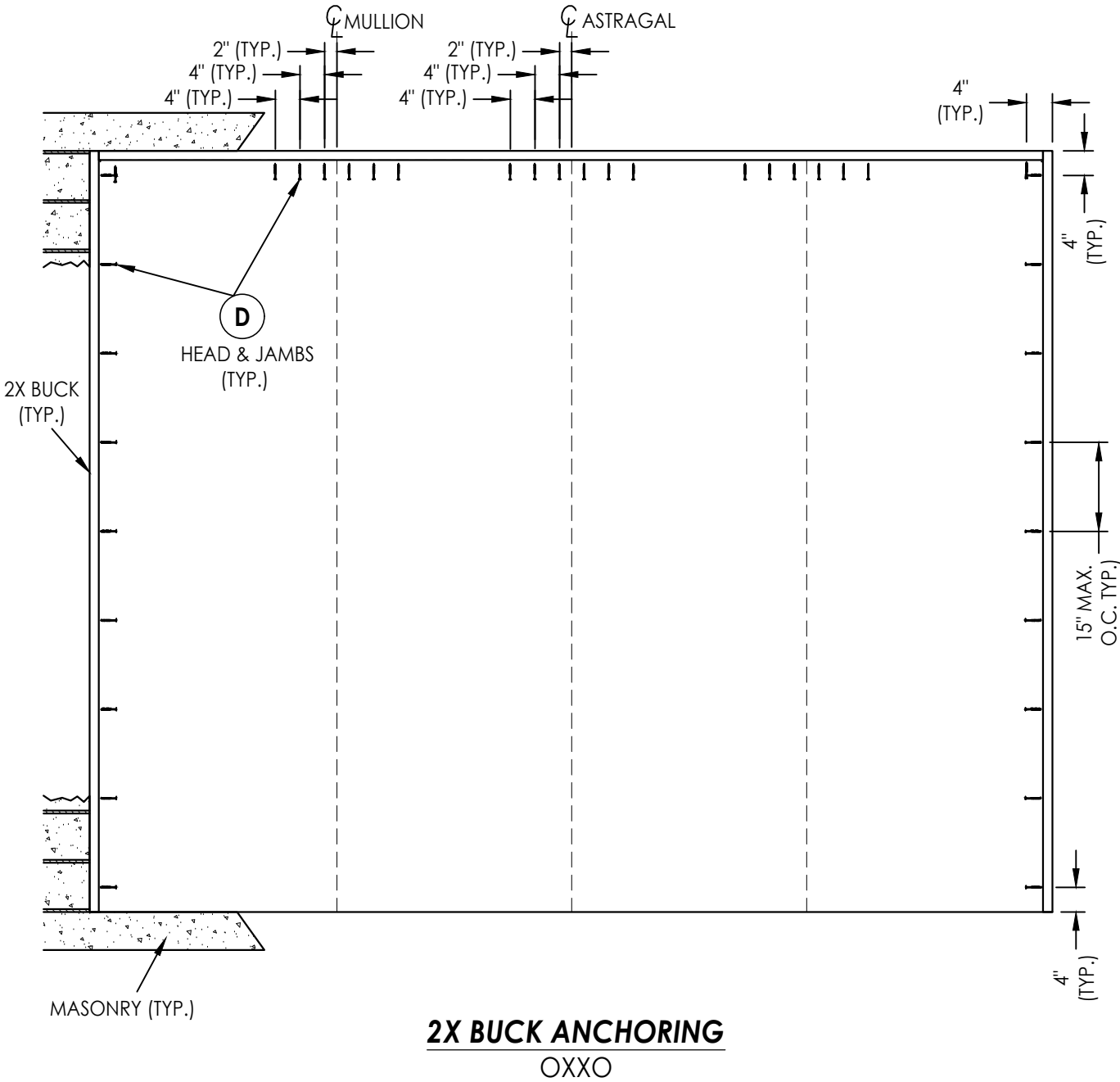
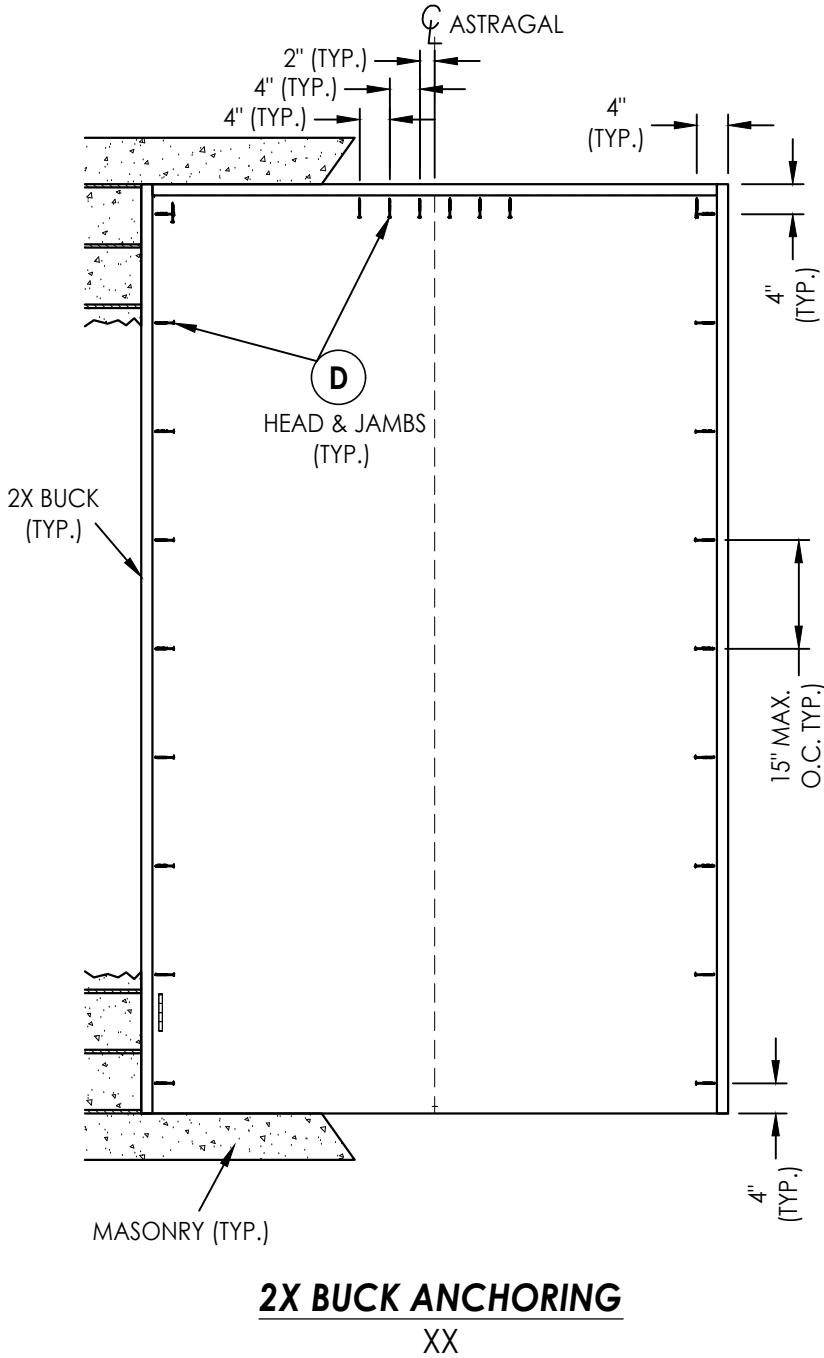
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21891.9

SHEET 10 OF 14

Z:\2023 FBC Drawings\Millwork 360\FL-21891 R5\FL-21891.9-11.dwg



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

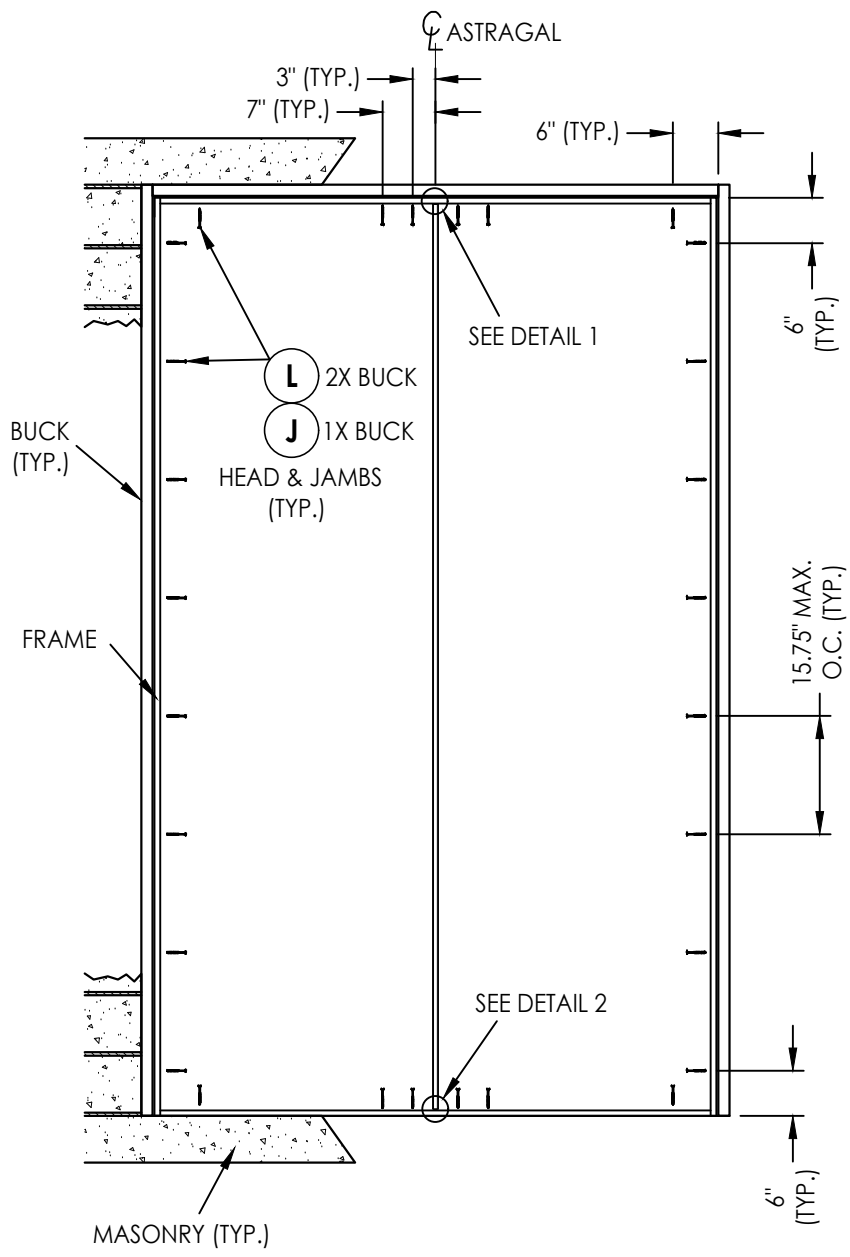
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		2	9/01/20	UPDATE TO 7TH ED. (2020)	FBC
		1	10/03/17	UPDATE TO 6th ED. (2017)	FBC
		NO.	DATE		
			REVISIONS		

DATE:	4/03/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21891.9
SHEET	11 OF 14

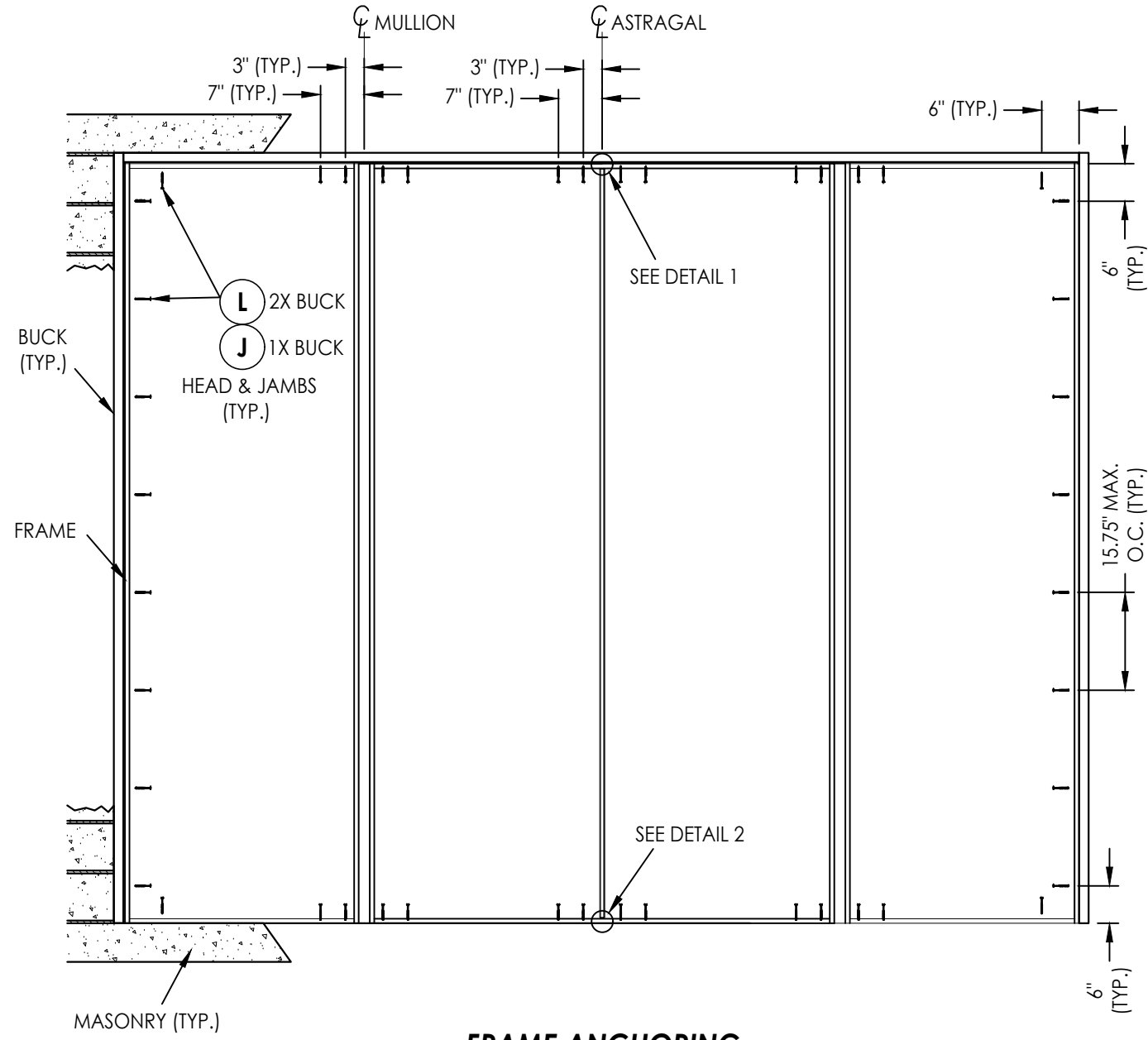
PRODUCT:	MILLWORK 360 WOOD DOOR
PART OR ASSEMBLY:	BUCK ANCHORING

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
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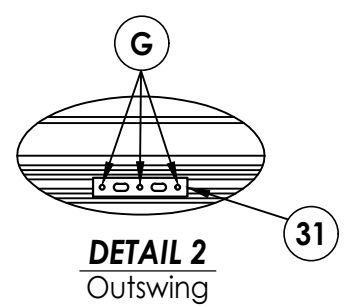
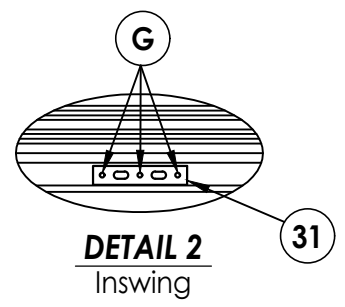
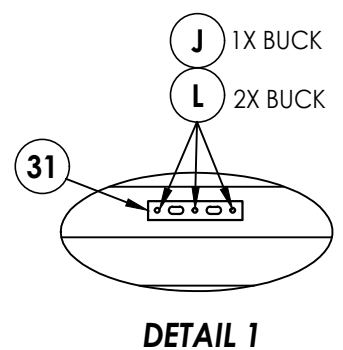
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FRAME ANCHORING
XX



FRAME ANCHORING
OXXO



NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2\"/>

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT:		MILLWORK 360 WOOD DOOR	
		PART OR ASSEMBLY:		FRAME ANCHORING	
DATE		NO.		BY	
8/08/23		3		LFS	
9/01/20		2		LFS	
10/03/17		1		JK	
UPDATE TO 8TH ED. (2023)		FBC			
UPDATE TO 7TH ED. (2020)		FBC			
UPDATE TO 6TH ED. (2017)		FBC			
REVISIONS					
DATE: 4/03/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-21891.9					
SHEET 12 OF 14					

RW

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



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



DATE:	4/03/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21891.9
SHEET	13 OF 14

Documents Prepared By:
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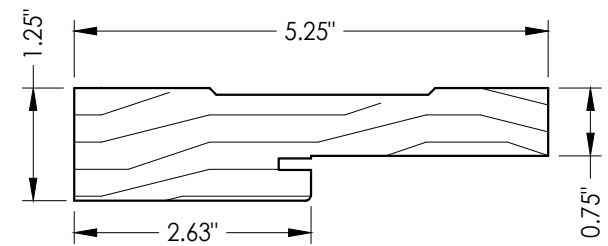
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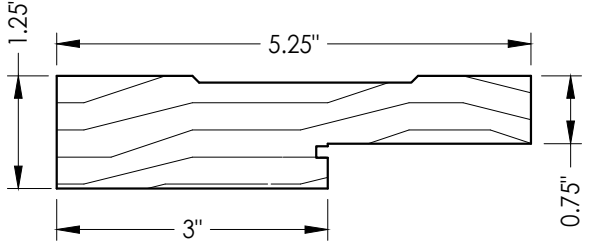
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW 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
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

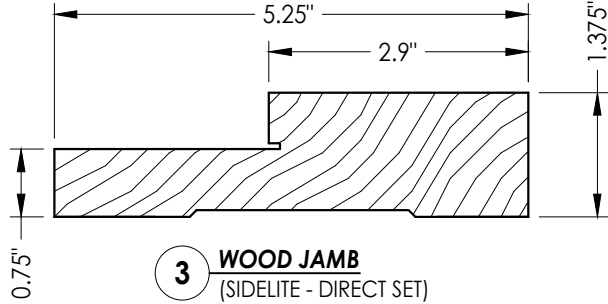
WOOD FRAME COMPONENTS: SIPO (UTILE) (G = 0.53)



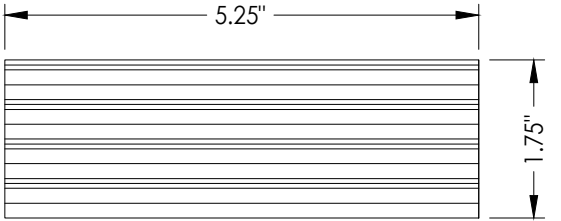
1 WOOD JAMB
(DOOR)



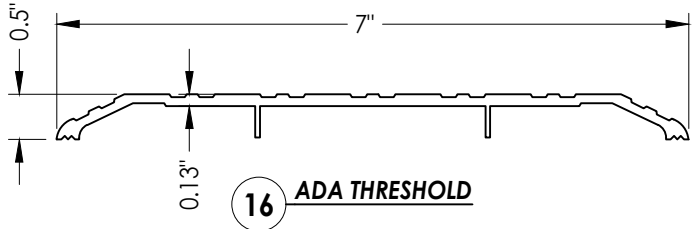
2 WOOD JAMB
(SIDELITE)



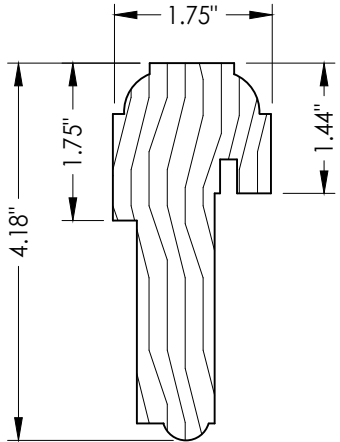
3 WOOD JAMB
(SIDELITE - DIRECT SET)



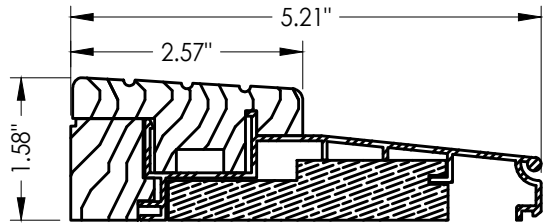
4 MULLION
VERSA-LAM® 3100 Fb-2.0E



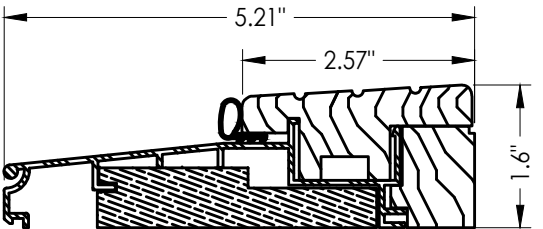
16 ADA THRESHOLD



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.

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PRODUCT: MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
3	8/08/23	UPDATE TO 8TH ED. (2023) FBC
2	9/01/20	UPDATE TO 7TH ED. (2020) FBC
1	10/03/17	UPDATE TO 6TH ED. (2017) FBC

DATE: 4/03/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21891.9

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