



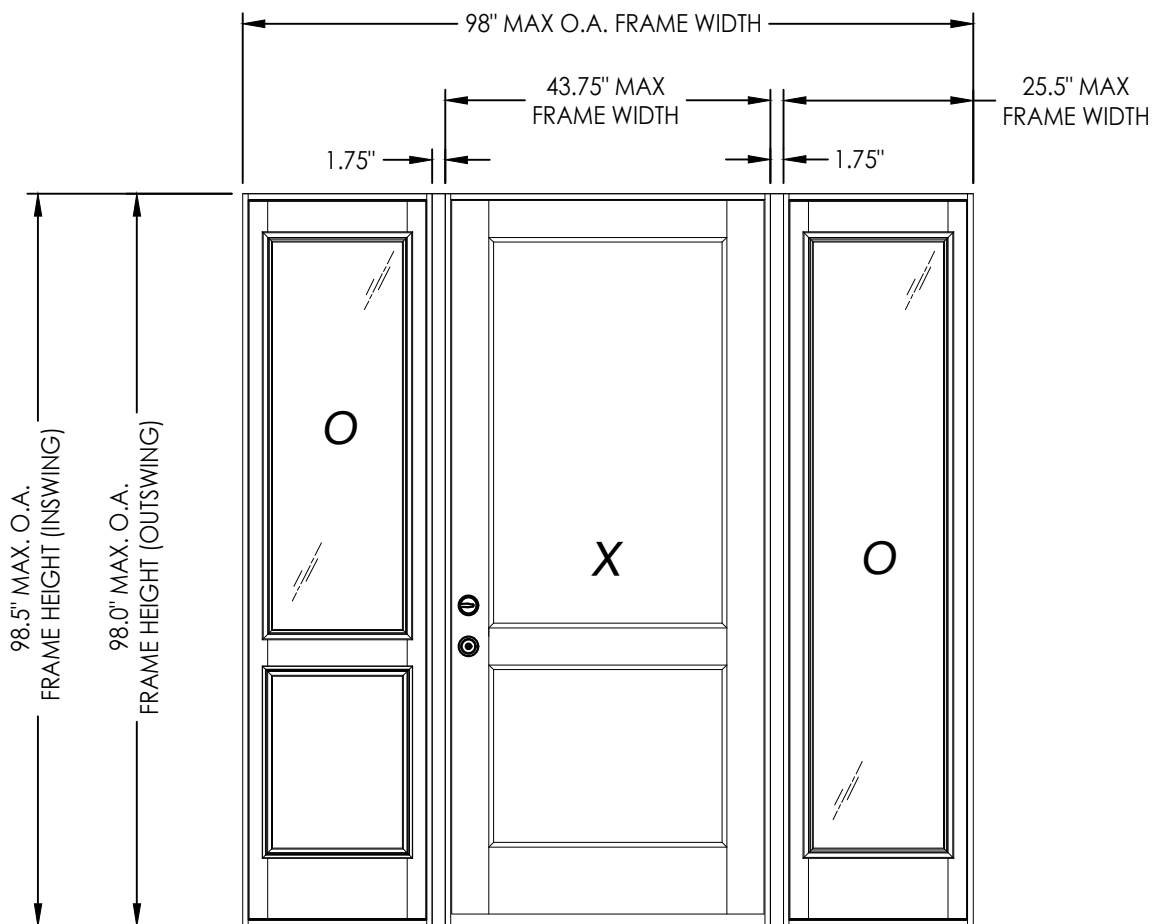
IMPACT 360 SERIES

**WOOD GLAZED OR OPAQUE
SINGLE DOOR w/ SIDELITE(S)
INSWING/OUTSWING
"IMPACT"**

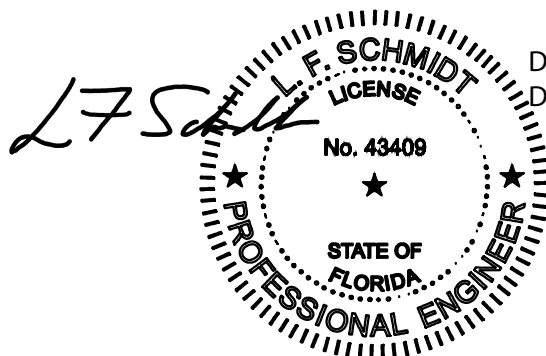
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements 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 complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
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.

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



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OX, XO, OXO	+50.0	-50.0	+50.0	-50.0



Digitally signed by Lyndon F Schmidt
Date: 2023.08.08 15:25:42 -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

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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

[illegible]

DATE: 02/14/17

SCALE: N.T.S.

DWG. BY: JK

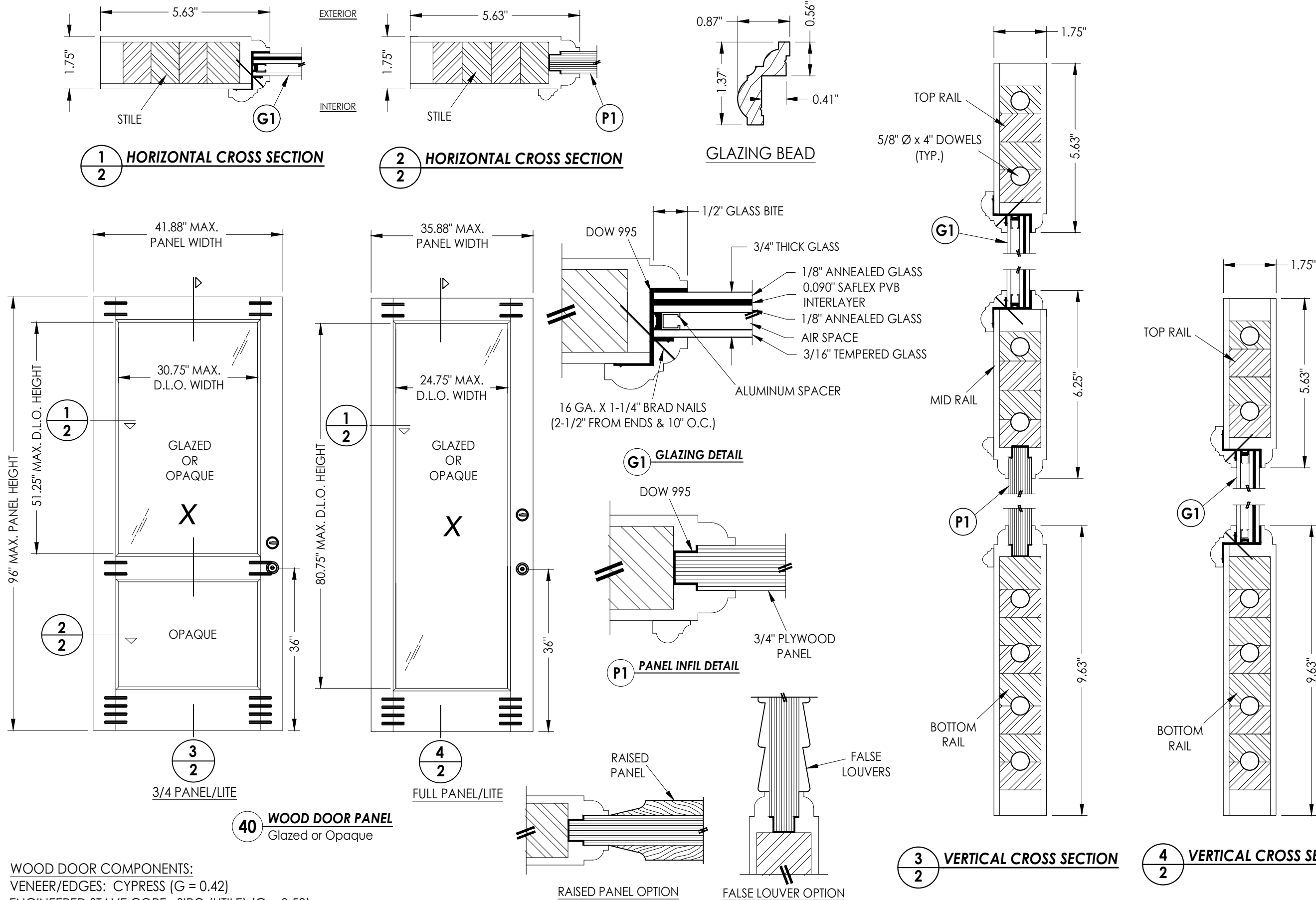
CHK. BY: LFS

DRAWING NO.:

FL-21891.2

SHEET 1 OF 12

Z:\2023 FBC Drawings\Millwork 360\FL-21891 R5\FL-21891.1-3.dwg



WOOD DOOR COMPONENTS:
VENEER/EDGES: CYPRESS (G = 0.42)
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)

Documents Prepared By:
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P.E. No. 43409

PRODUCT:
MILLWORK 360
WOOD DOOR

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

NO.	DATE	REVISIONS	BY
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

DATE: 02/14/17

SCALE: N.T.S.

DWG. BY: JK

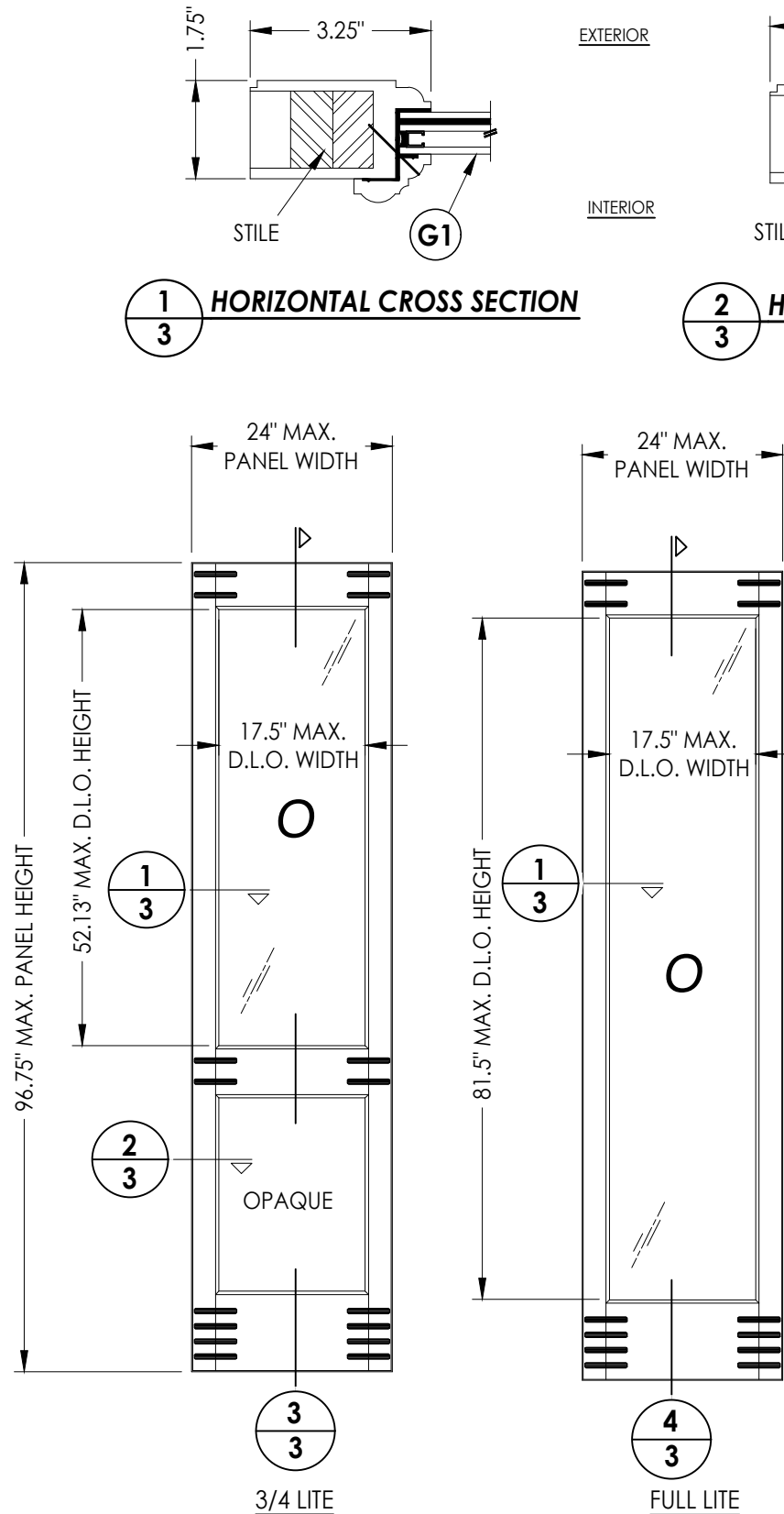
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DRAWING NO.:

FL-21891.2

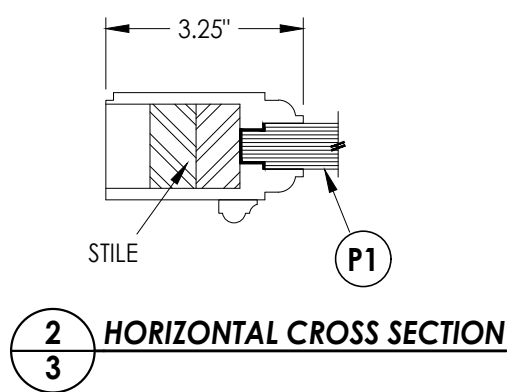
SHEET 2 OF 12

Z:\2023 FBC Drawings\Millwork 360\FL-21891 R5\FL-21891.1-3.dwg

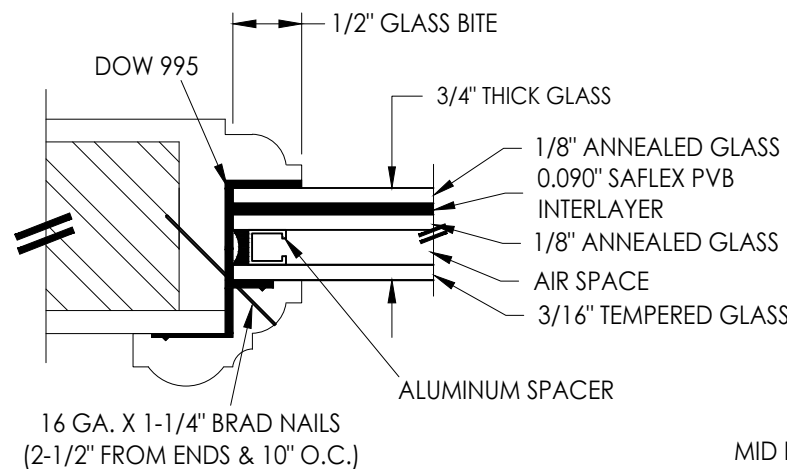


50 WOOD SIDELITE PANEL

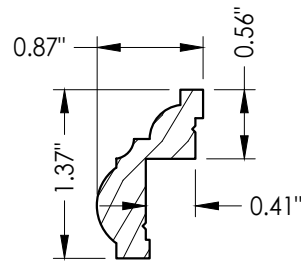
WOOD SIDELITE COMPONENTS:
VENEER/EDGES: CYPRESS (G = 0.42)
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)



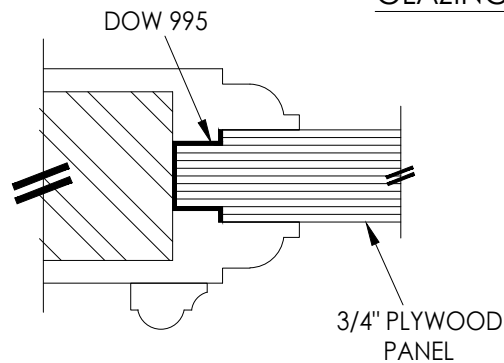
2 HORIZONTAL CROSS SECTION



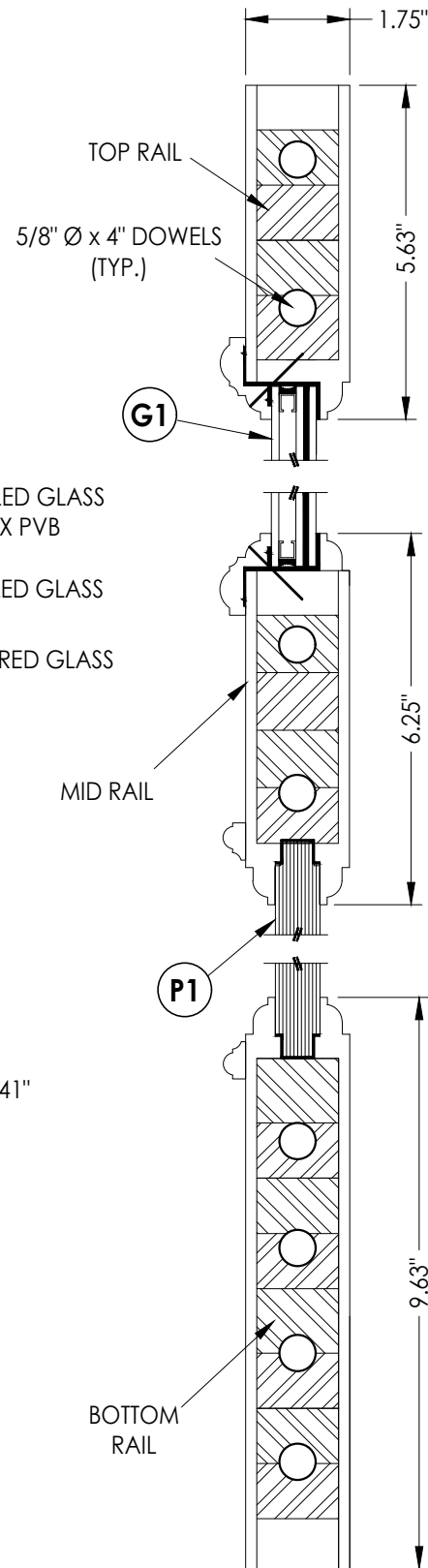
G1 GLAZING DETAIL



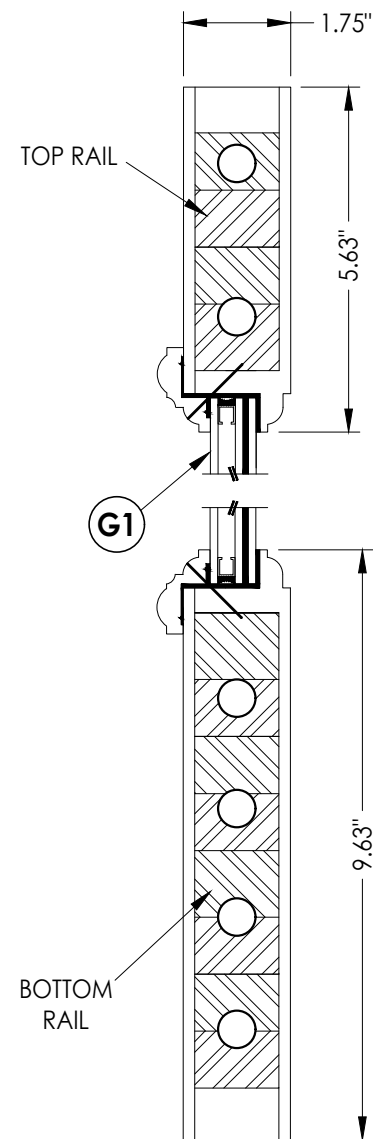
GLAZING BEAD



P1 PANEL INFIL DETAIL



3 VERTICAL CROSS SECTION



4 VERTICAL CROSS SECTION

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

PRODUCT: MILLWORK 360
WOOD DOOR

NO.	DATE	REVISIONS
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

DATE: 02/14/17

SCALE: N.T.S.

DWG. BY: JK

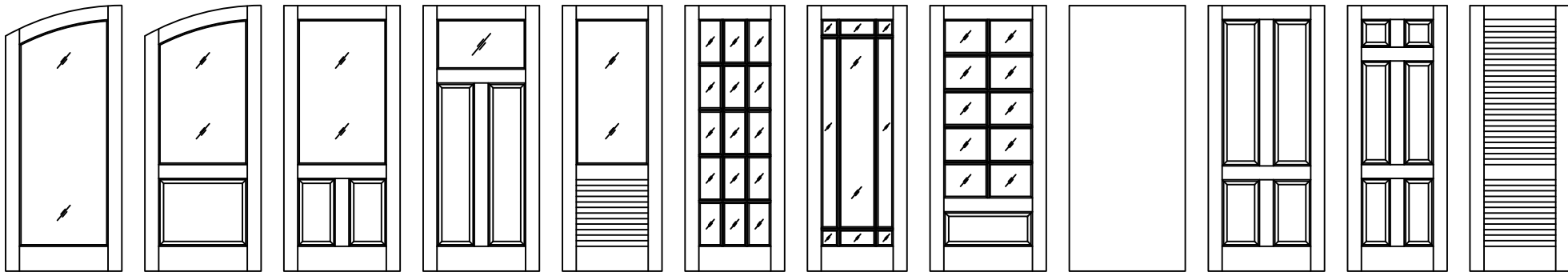
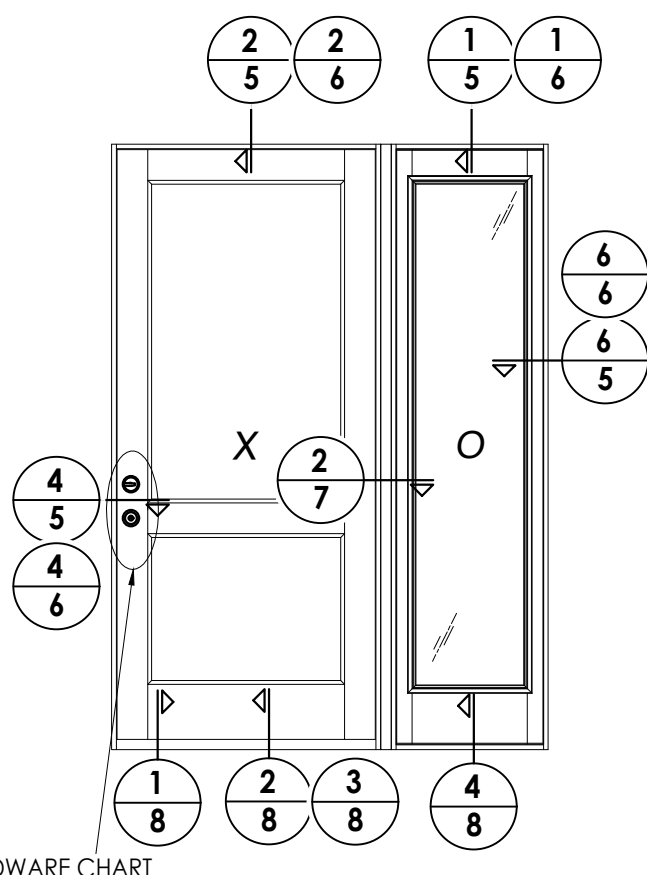
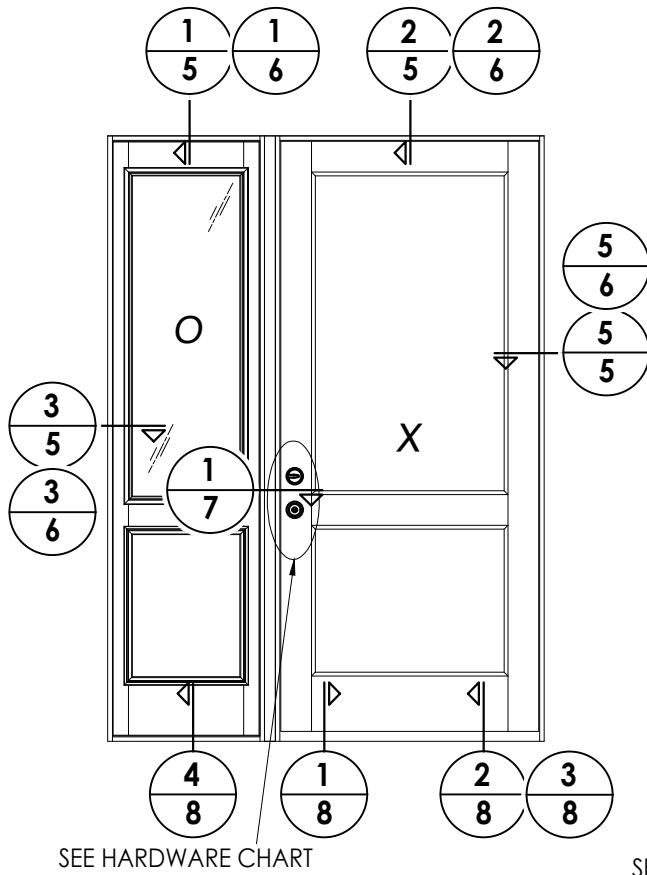
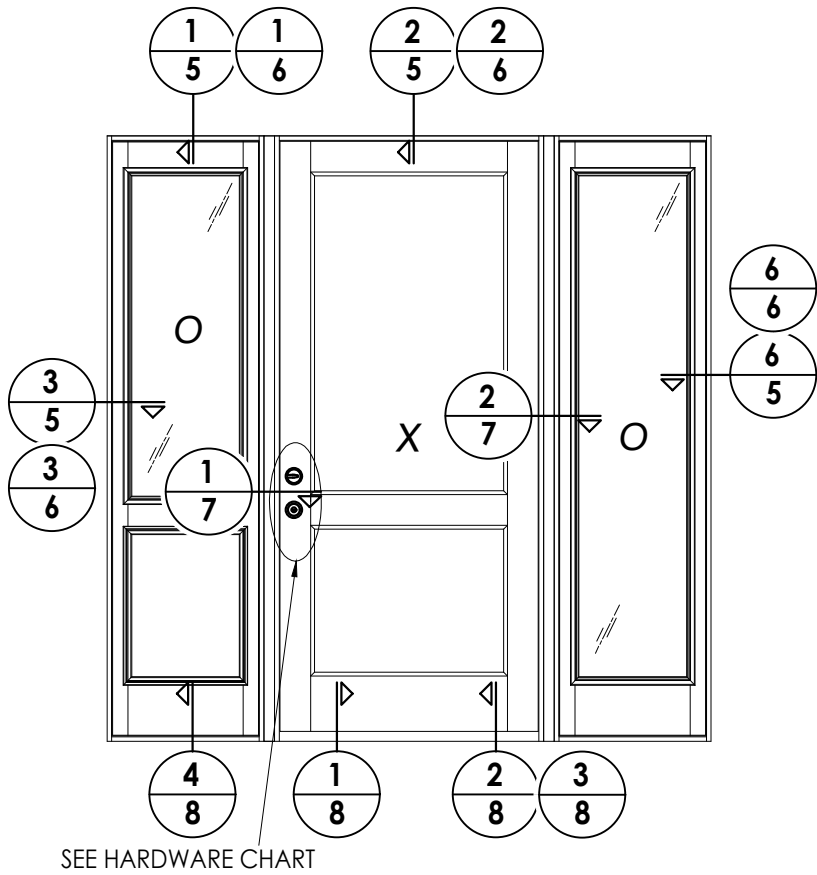
CHK. BY: LFS

DRAWING NO.: FL-21891.2

SHEET 3 OF 12

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

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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.

HARDWARE TABLE	
MANUFACTURER	MODEL
EMTEK	Mortise: 3545 Entry Set
SCHLAGE	KNOB: F51 DEADBOLT: B60N
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)

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

MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
ELEVATIONS

8/08/23
3

UPDATE TO 8TH ED. (2023)

FBC

LFS

9/01/20
2

UPDATE TO 7TH ED. (2020)

FBC

LFS

10/03/17
1

UPDATE TO 6TH ED. (2017)

FBC

JK

NO.

DATE

BY

REVISIONS

DATE: 02/14/17

SCALE: N.T.S.

DWG. BY: JK

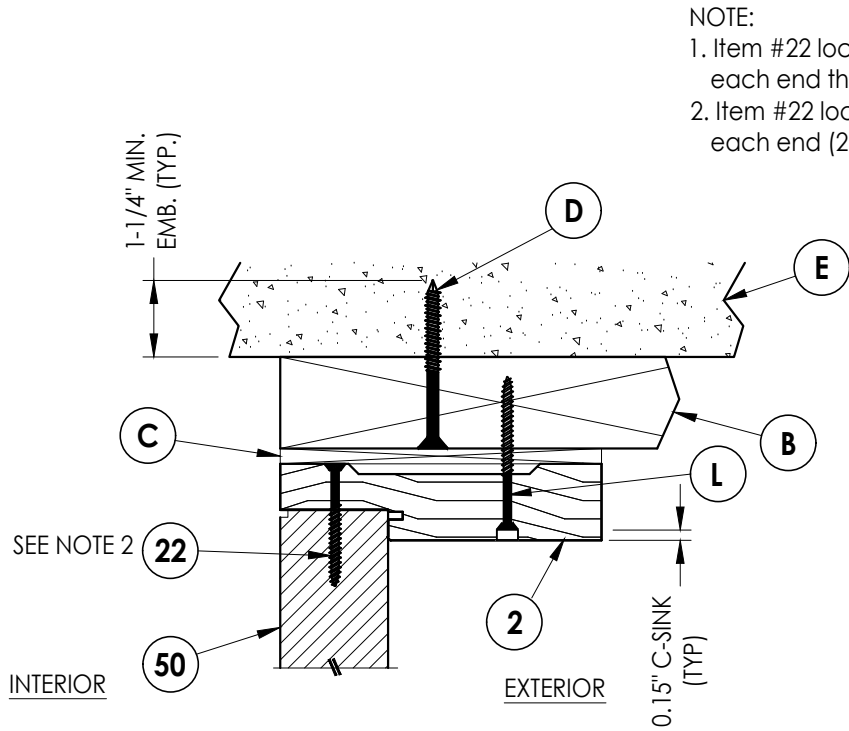
CHK. BY: LFS

DRAWING NO.: FL-21891.2

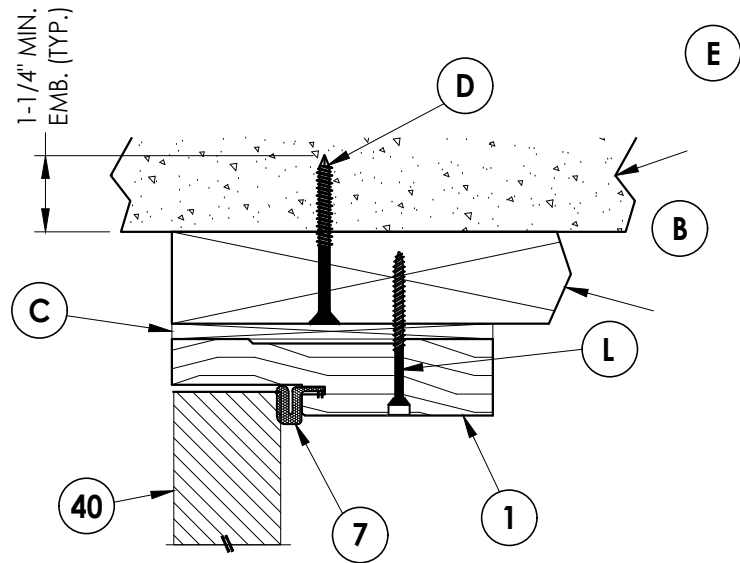
SHEET 4 OF 12

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

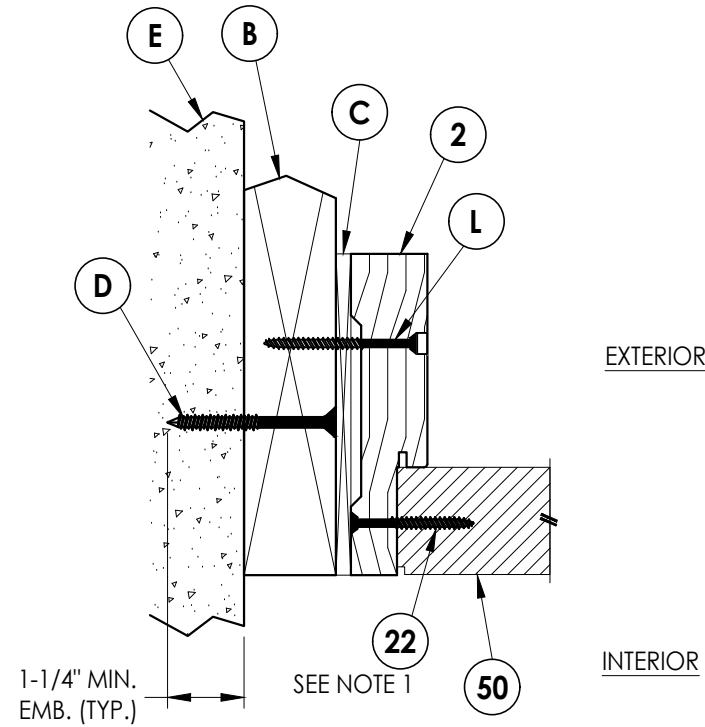
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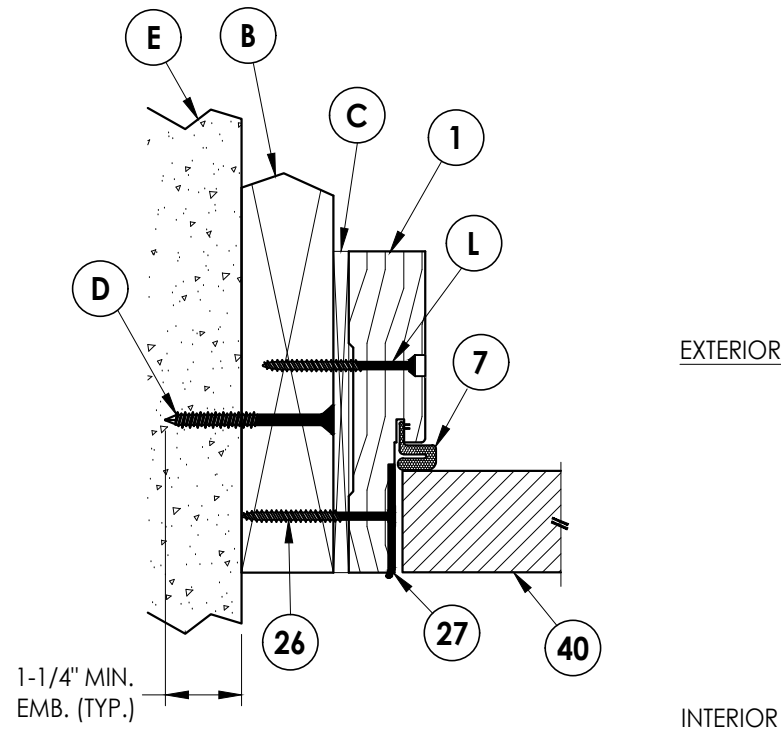
1
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



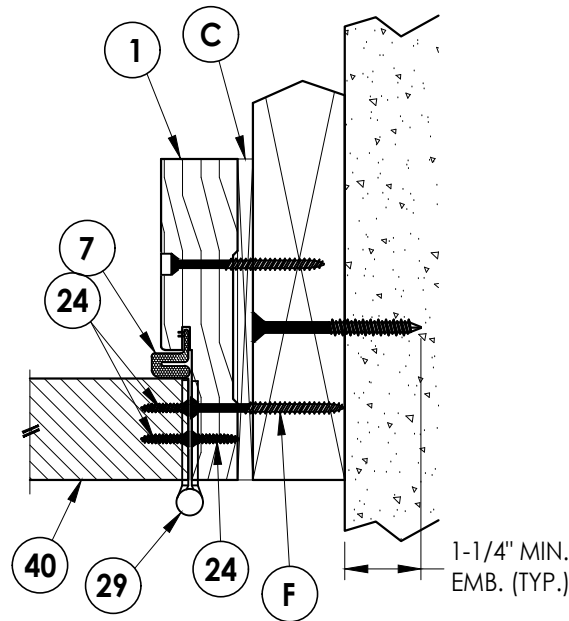
2
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



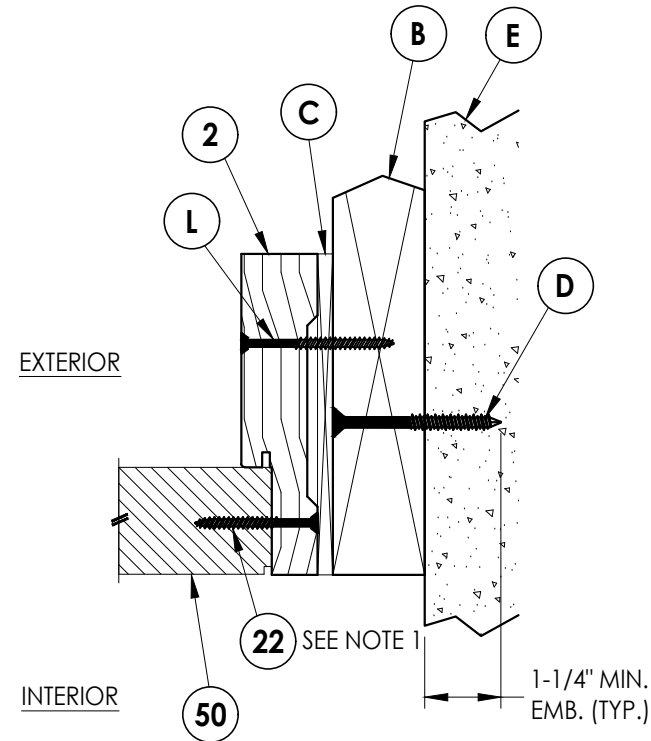
3
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



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



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



6
5 **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			
		DATE	BY	CHK	APP
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	

DATE: 02/14/17

SCALE: N.T.S.

DWG. BY: JK

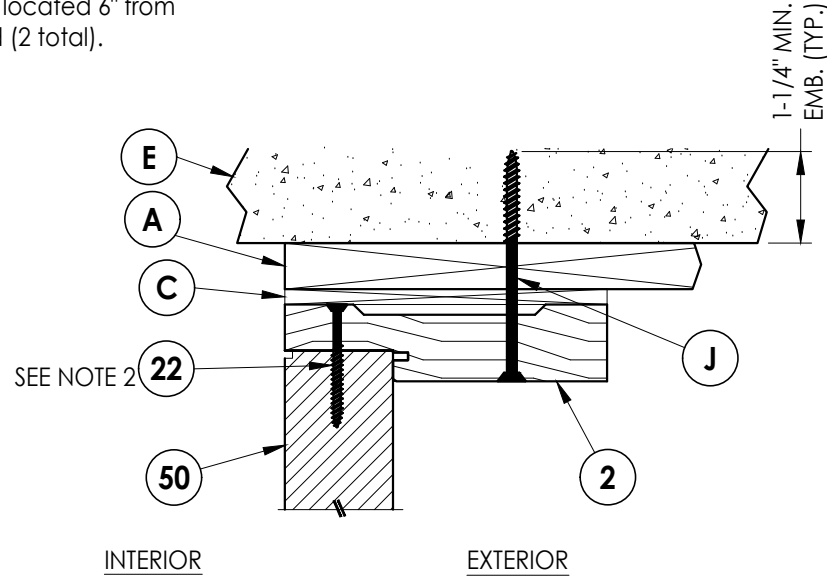
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DRAWING NO.:
FL-21891.2

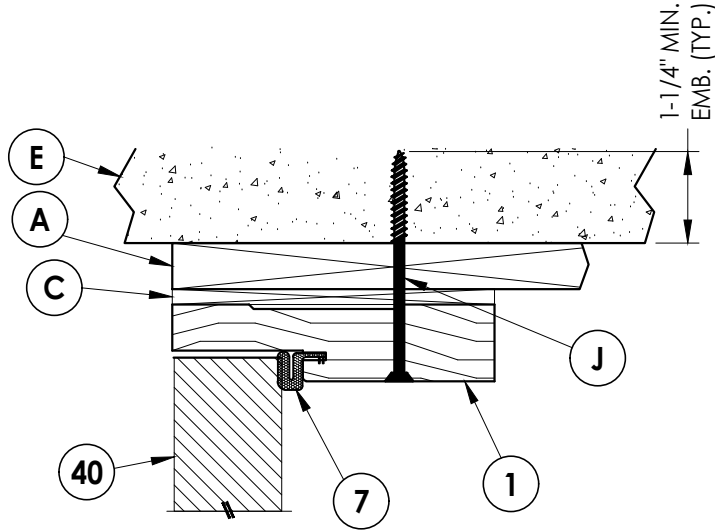
SHEET 5 OF 12

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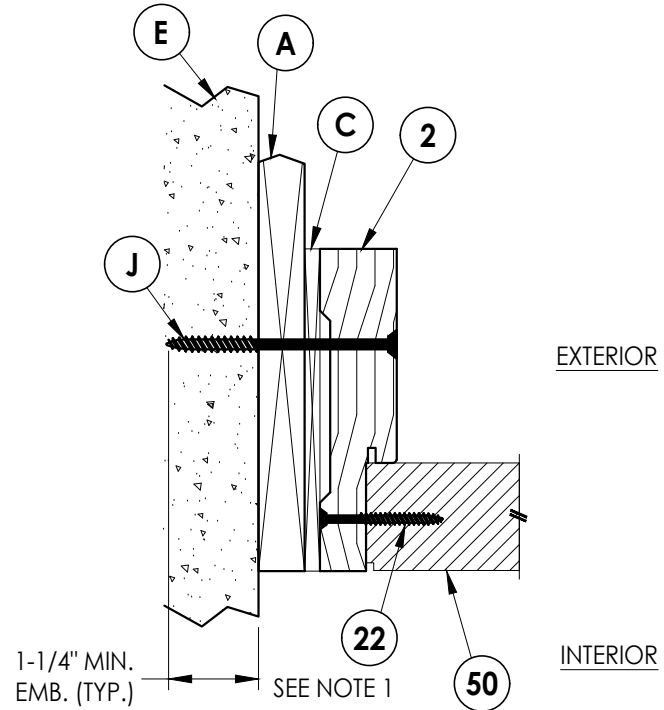
NOTE:
1. Item #22 located 4" from
each end then 7 more (9 total).
2. Item #22 located 6" from
each end (2 total).



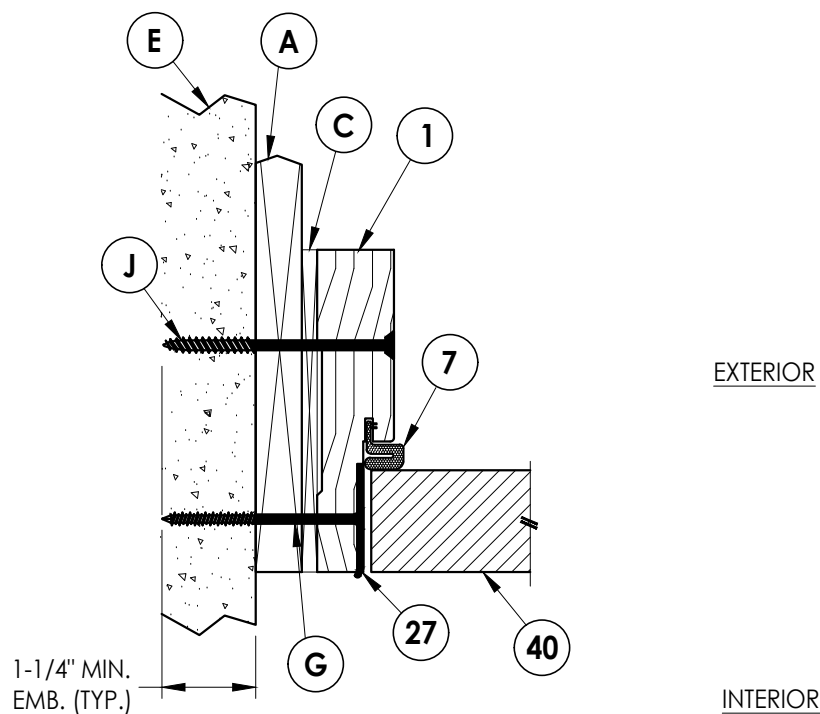
1
6 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



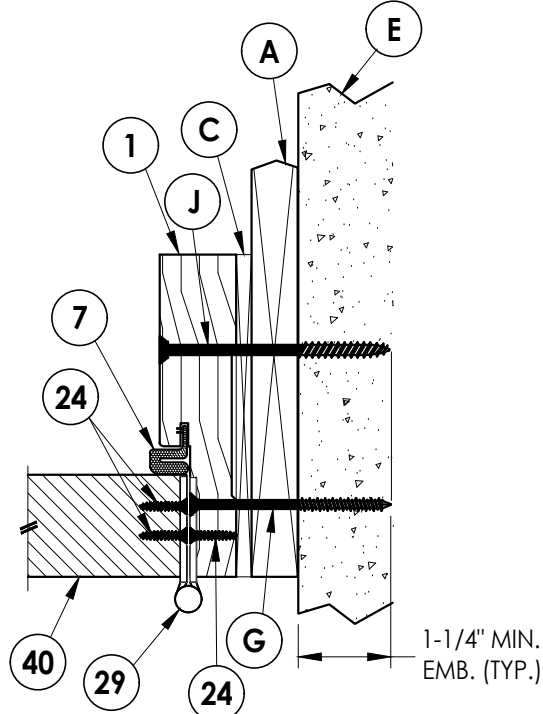
2
6 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



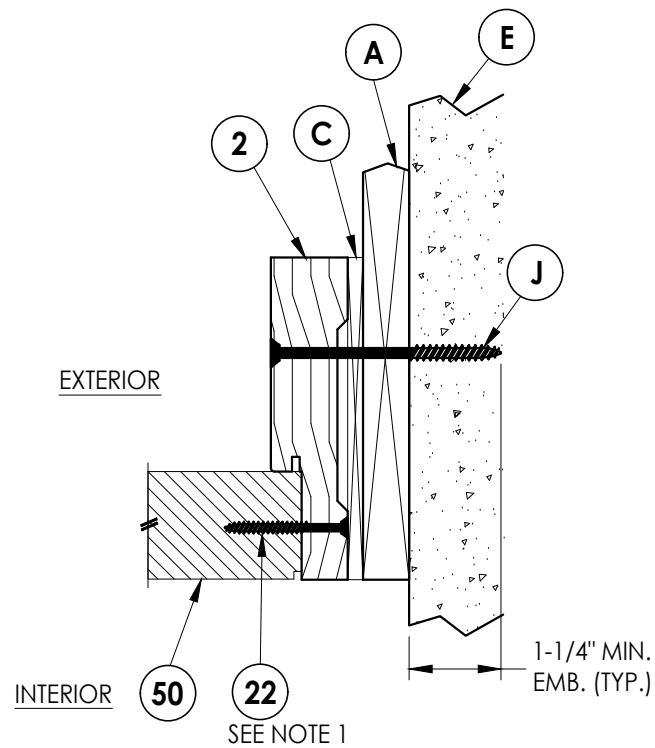
3
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



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



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



6
6 **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:
MILLWORK 360
WOOD DOOR

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

NO.	DATE	REVISIONS
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

DATE: 02/14/17

SCALE: N.T.S.

DWG. BY: JK

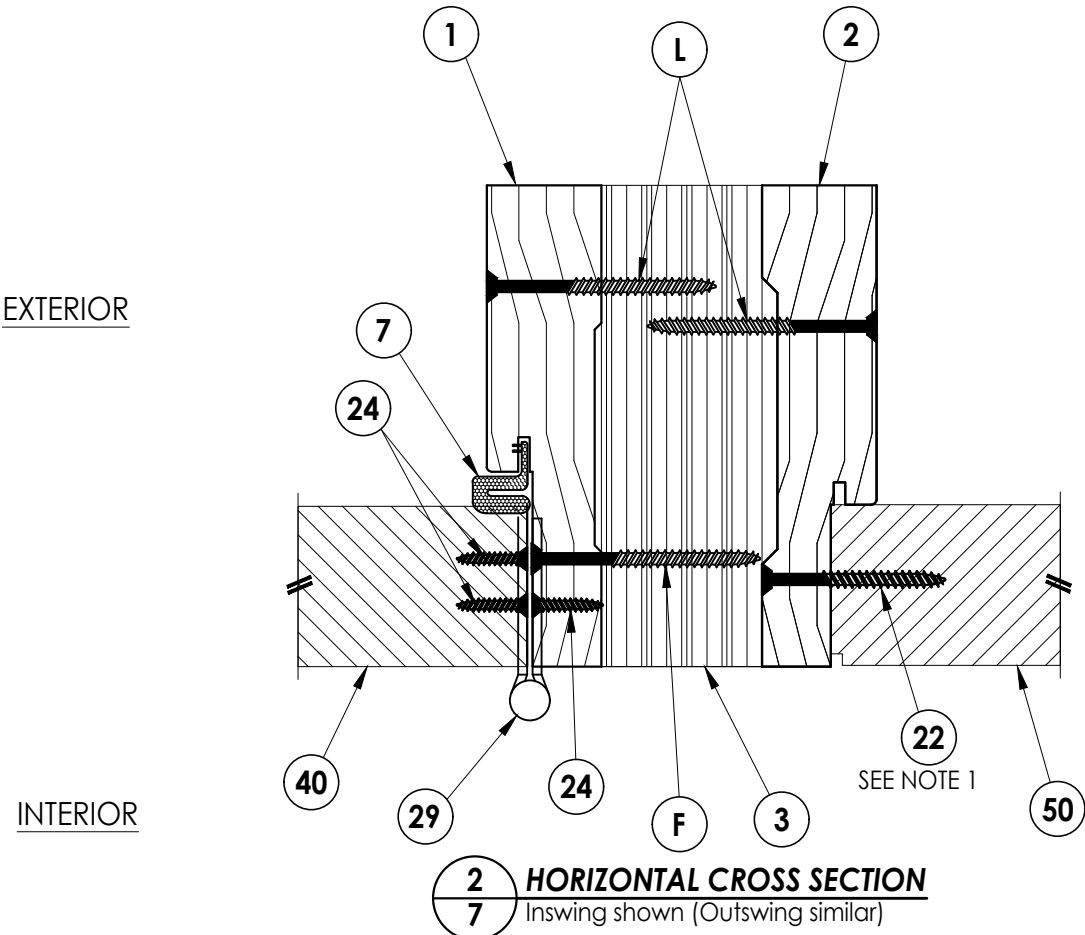
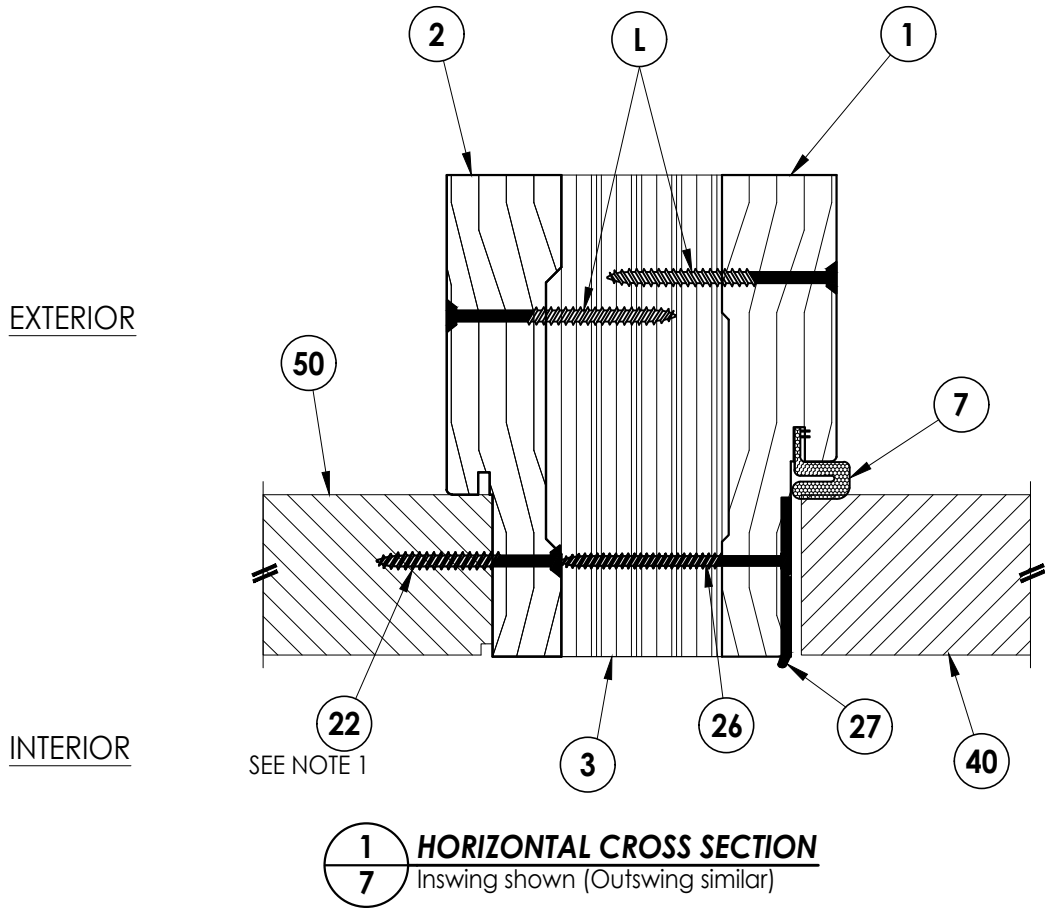
CHK. BY: LFS

DRAWING NO.: FL-21891.2

SHEET 6 OF 12

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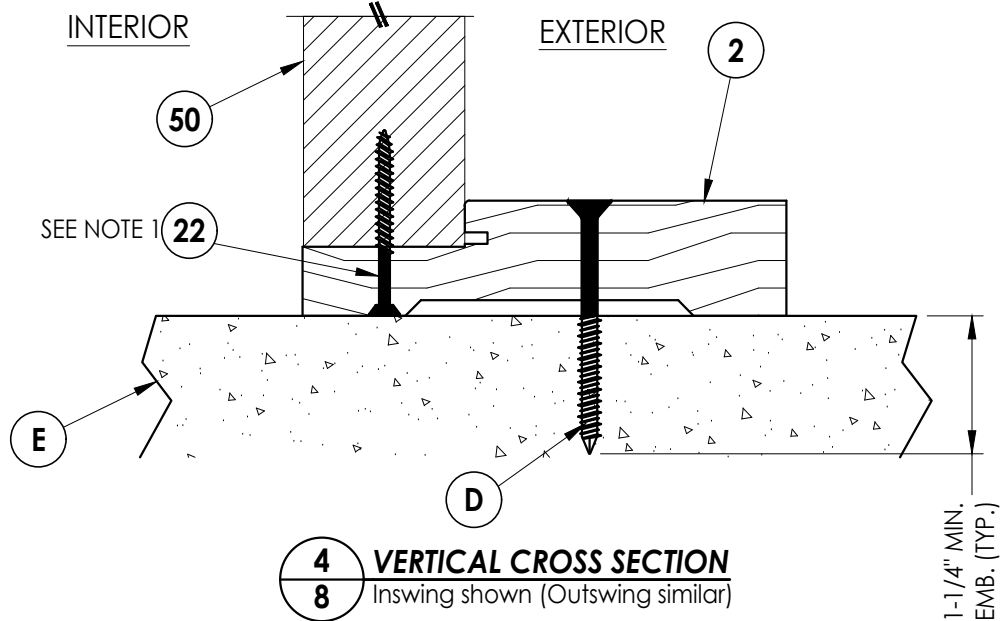
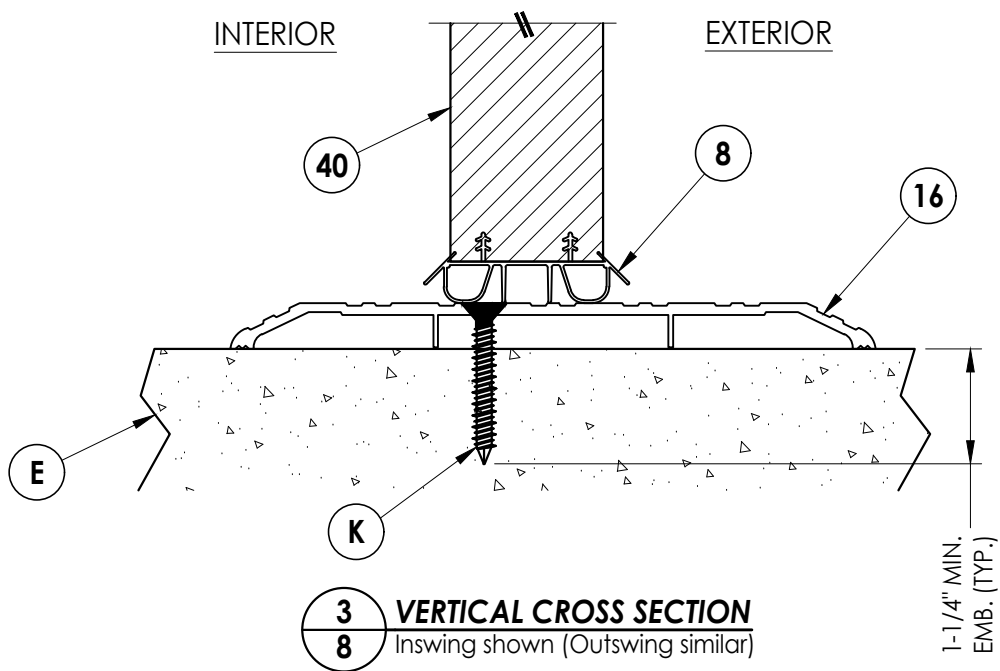
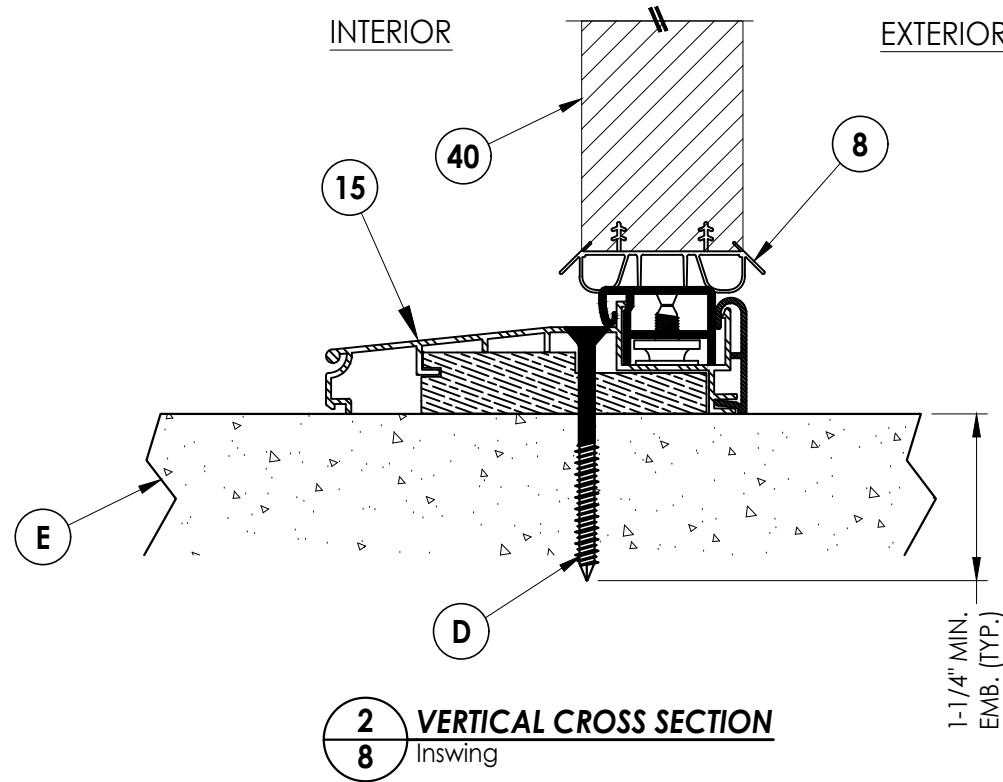
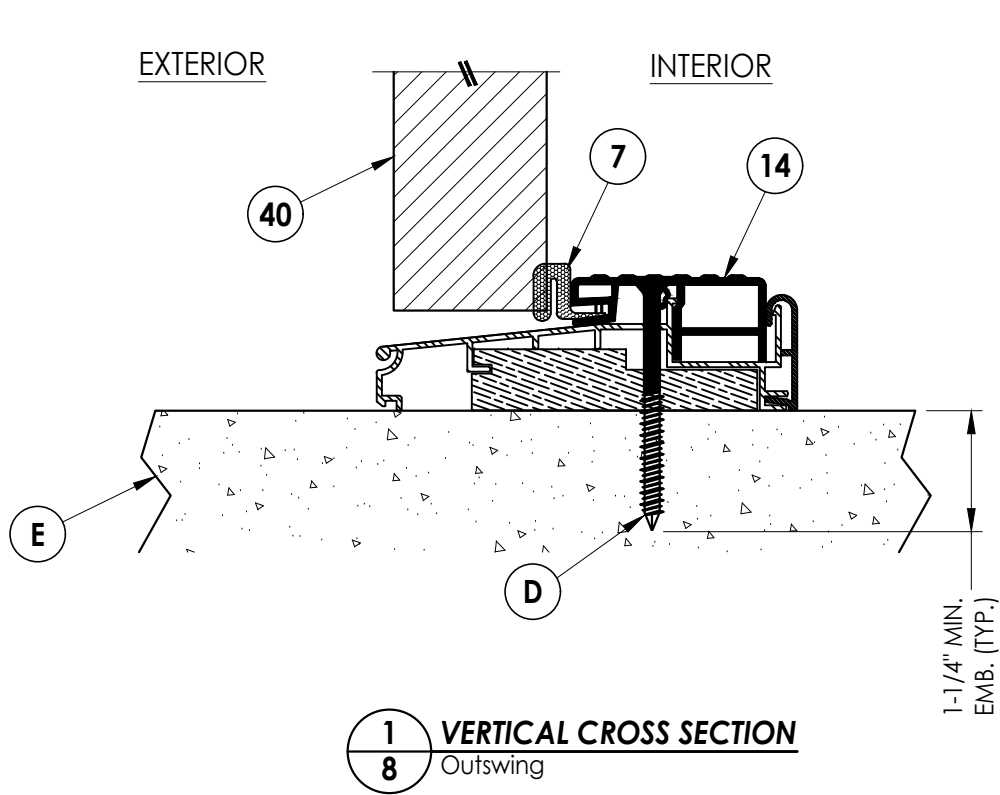
NOTE:
1. Item #22 located 4" from
each end then 7 more (9 total).



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: HORIZONTAL CROSS SECTIONS				
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: 02/14/17									
SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-21891.2									
SHEET 7 OF 12									

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NOTE:
1. Item #22 located 6" from
each end (2 total).



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:
VERTICAL CROSS
SECTIONS (THRESHOLD)

NO.	DATE	REVISIONS
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
BY		

DATE: 02/14/17

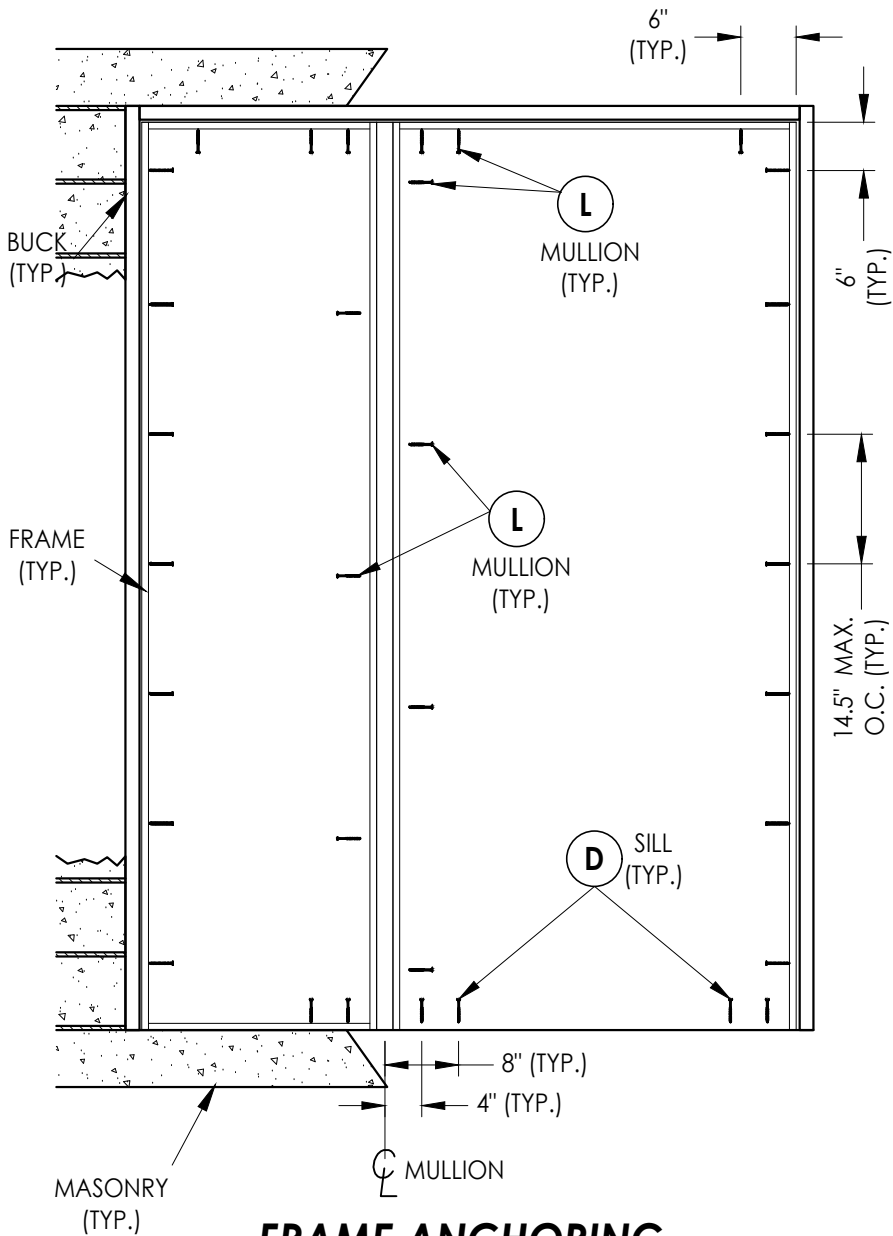
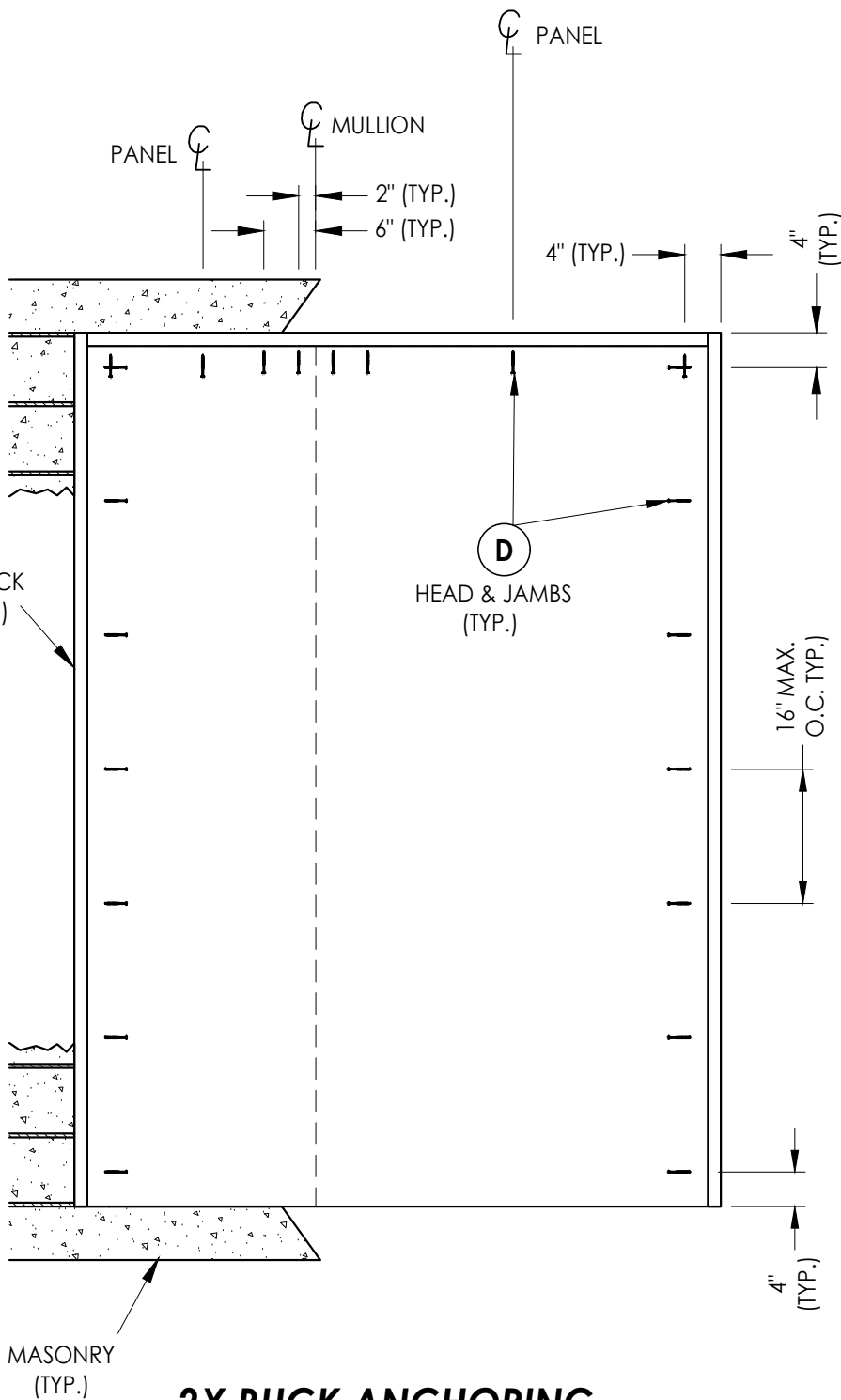
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21891.2

SHEET 8 OF 12



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

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

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

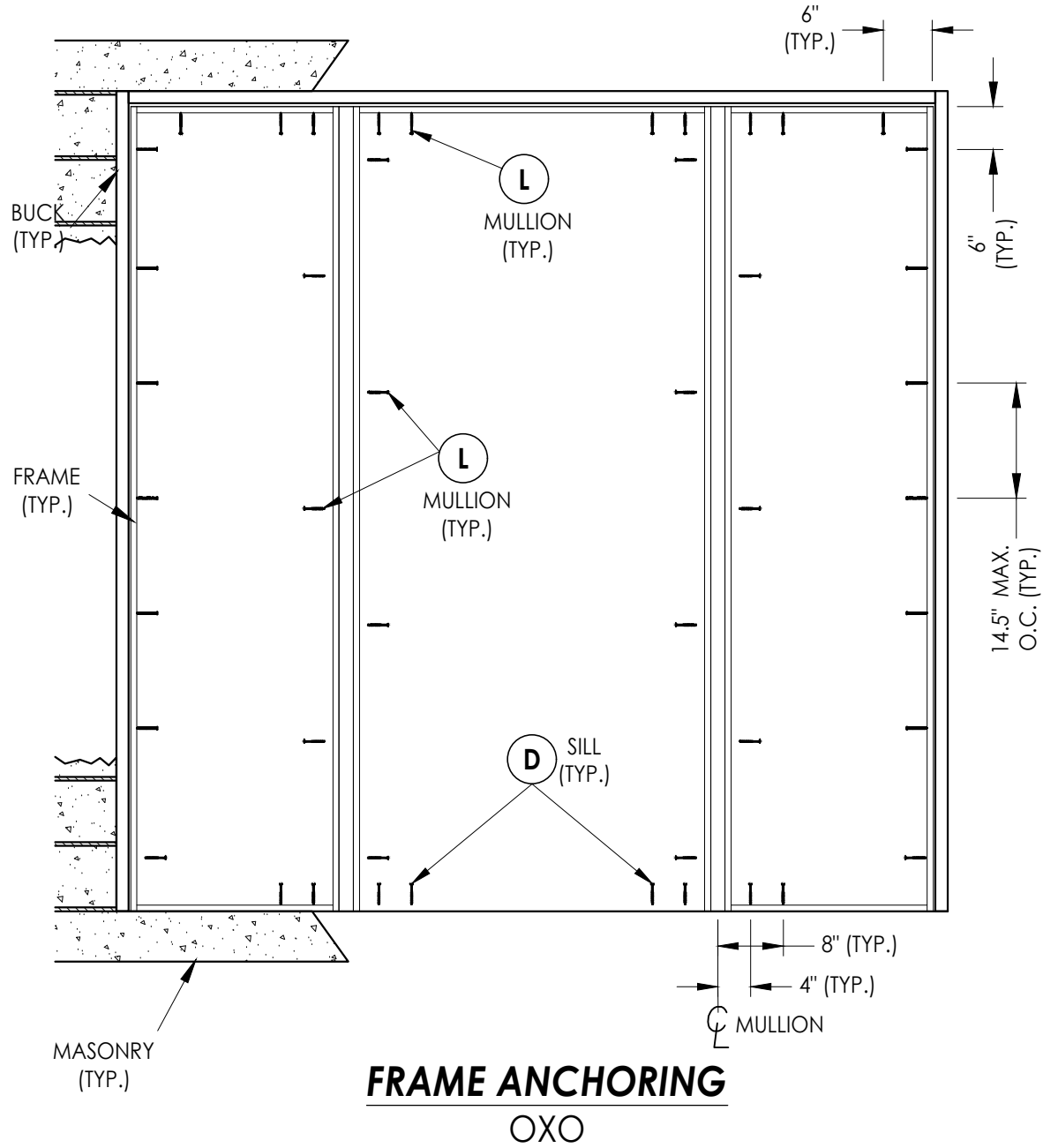
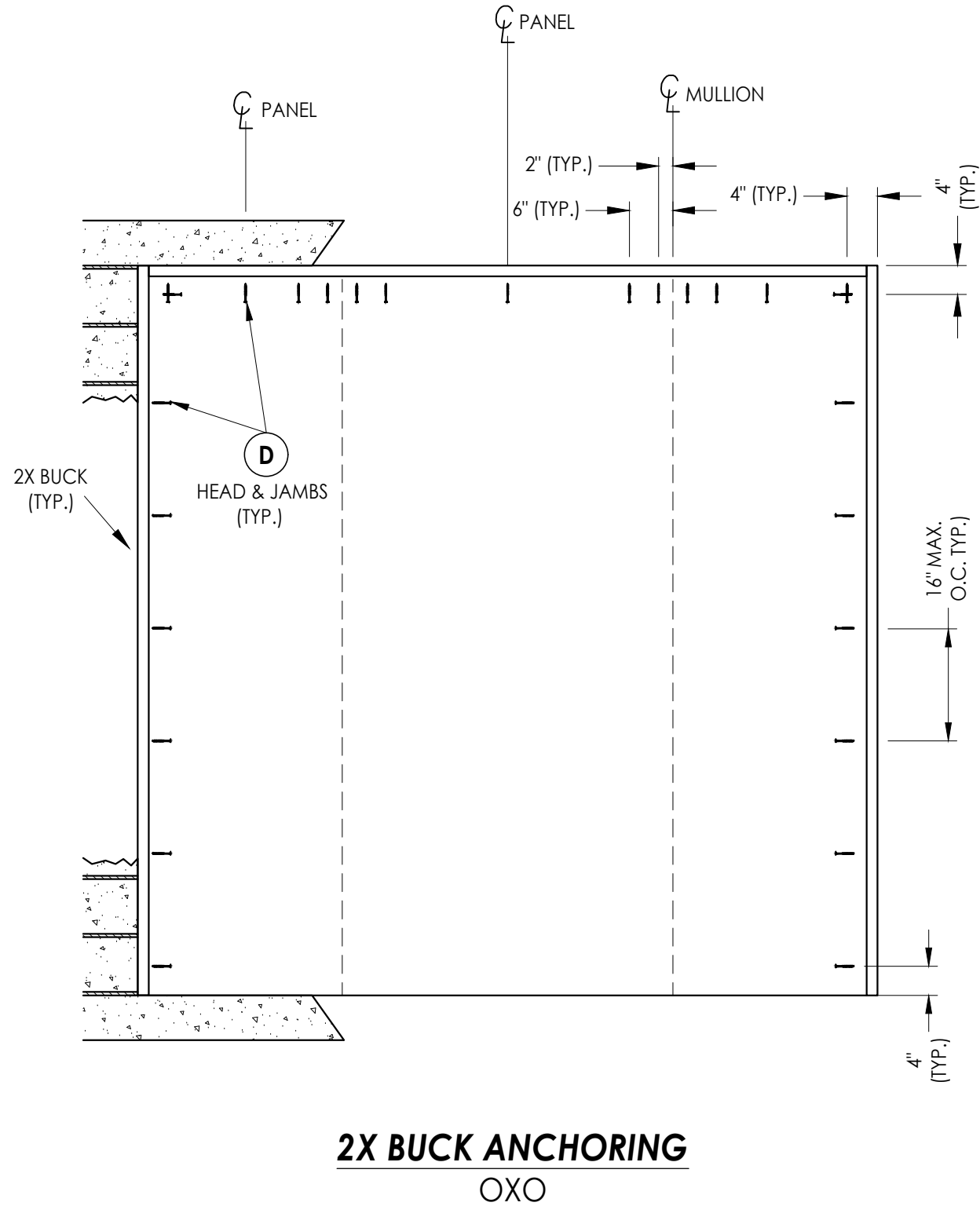
MILLWORK 360
WOOD DOOR

BLY: FRAME ANCHORING (OX)

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 333
Phone No.: 813.659.9197
FBPE Registry No. 9813

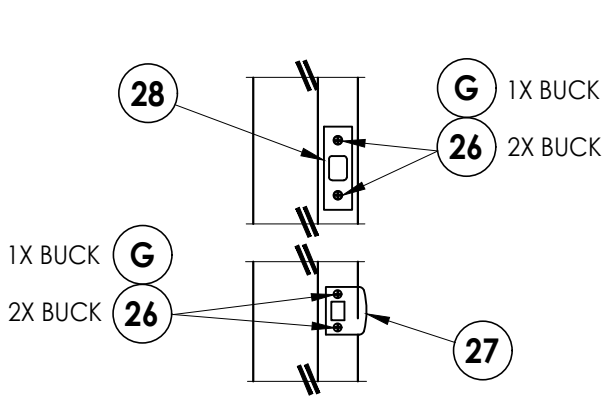
Z:\2023 FBC Drawings\Millwork\360\FL-21891 R5\FL-21891.1-3.dwg

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

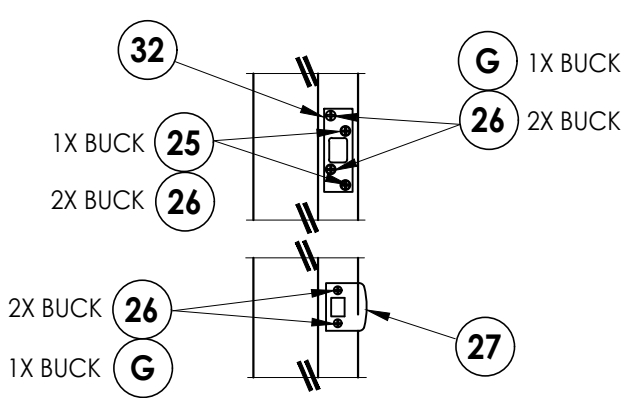


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: MILLWORK 360 WOOD DOOR		PART OR ASSEMBLY: BUCK & FRAME ANCHORING (OXO)					
				LFS	FBC		
		3	8/08/23	UPDATE TO 8TH ED. (2023)	FBC		
		2	9/01/20	UPDATE TO 7TH ED. (2020)	FBC		
		1	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
		NO.	DATE			BY	
				REVISIONS			
DATE: 02/14/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-21891.2							
SHEET 10 OF 12							

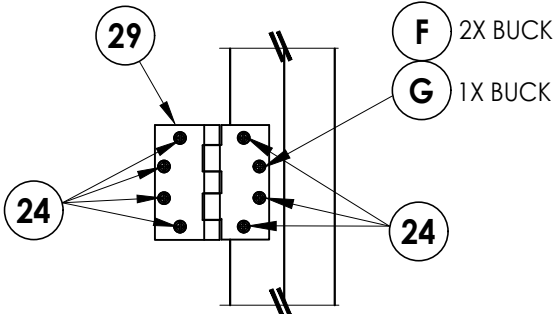
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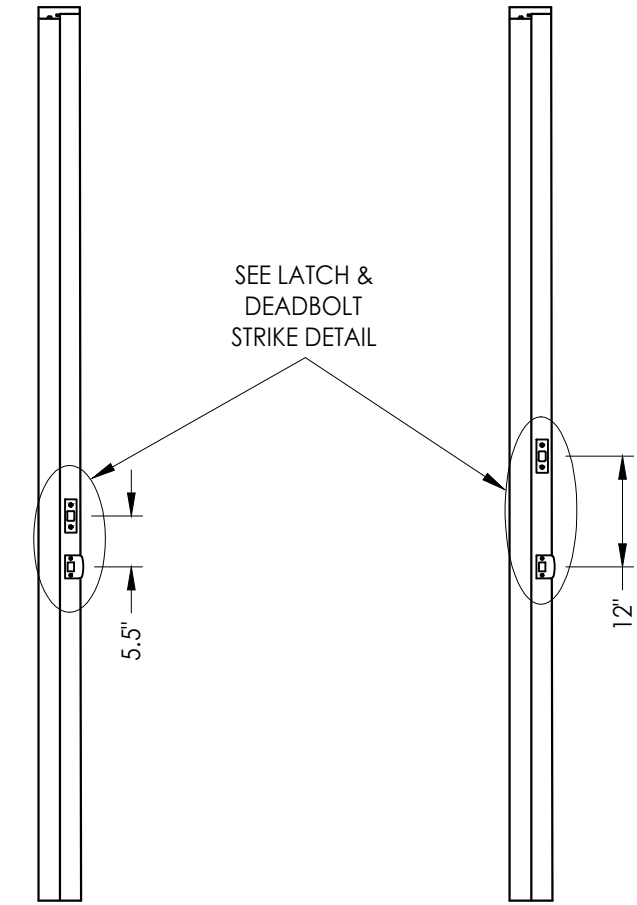
LATCH & DEADBOLT STRIKE DETAIL
SCHLAGE



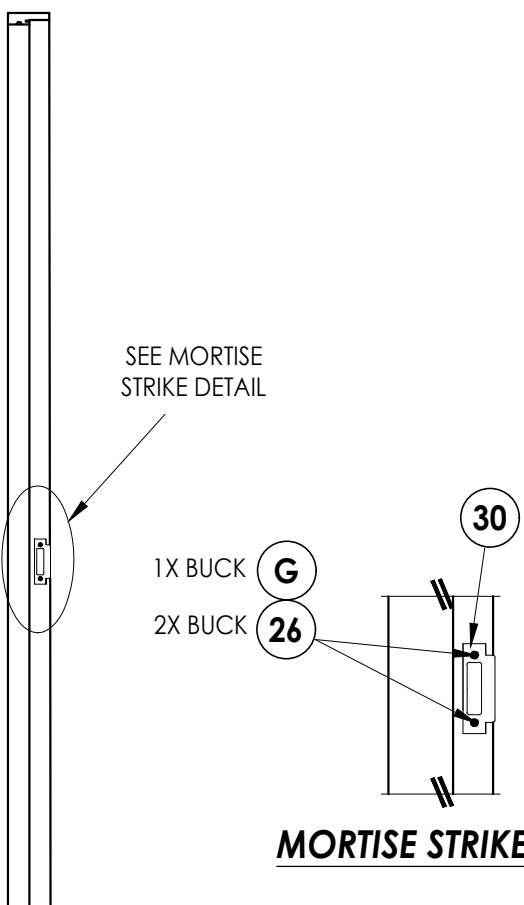
LATCH & DEADBOLT STRIKE DETAIL
KWIKSET



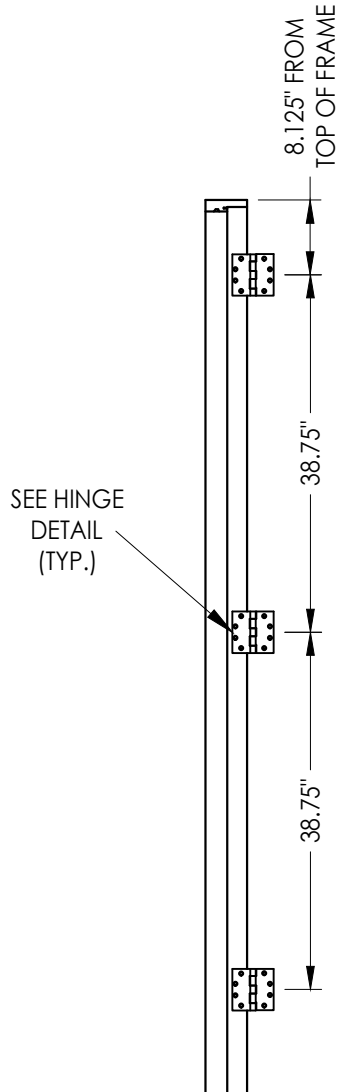
HINGE DETAIL



LATCH & DEADBOLT DETAILS



MORTISE LOCK DETAILS



HINGE JAMB

NO.	DATE	REVISIONS
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

DATE:	02/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21891.2
SHEET	11 OF 12

PRODUCT:	MILLWORK 360 WOOD DOOR
PART OR ASSEMBLY:	HARDWARE DETAILS

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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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
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
K	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	JAMB (Door)	WOOD
2	JAMB (Sidelite)	WOOD
3	MULLION	LSL
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
14	OUTSWING THRESHOLD	ALUM/COMP
15	INSWING THRESHOLD	ALUM/COMP
16	ADA THRESHOLD	ALUM
22	#10 X 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
28	DEADBOLT STRIKE PLATE	STEEL
29	4.5" X 4.5" HINGE	STEEL
30	MORTISE STRIKE PLATE	STEEL
32	DEADBOLT SECURITY STRIKE PLATE	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
70	TRANSOM PANEL	-

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

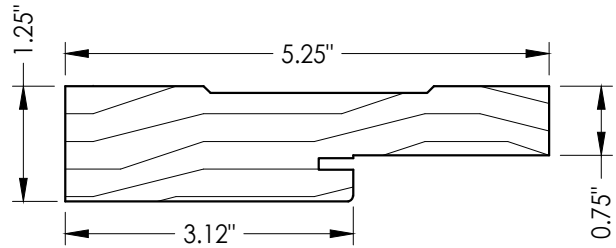
CONCRETE ANCHOR NOTES:

- 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:

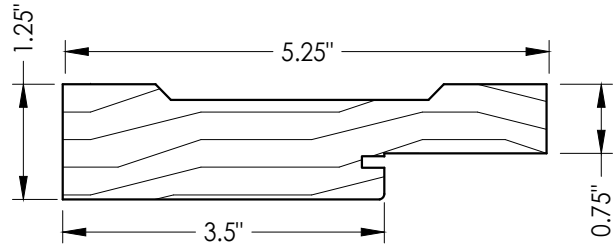
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA CON+®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

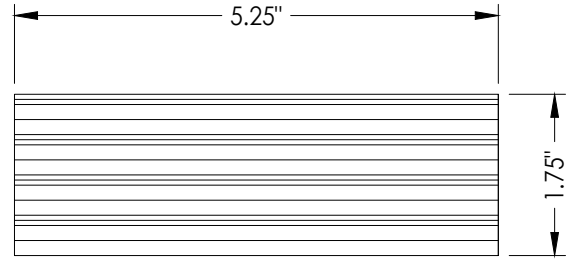
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



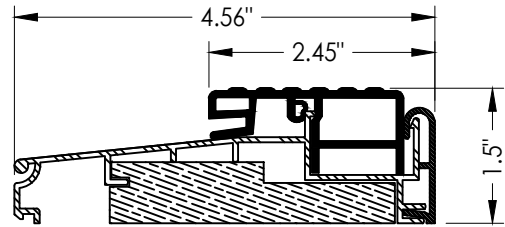
1 WOOD JAMB
(Door)



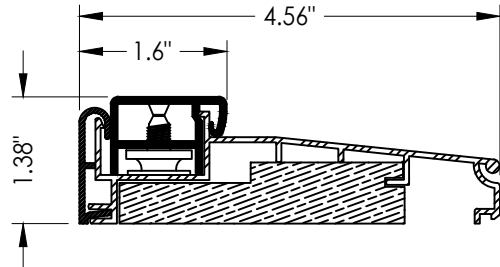
2 WOOD JAMB
(Sidelite)



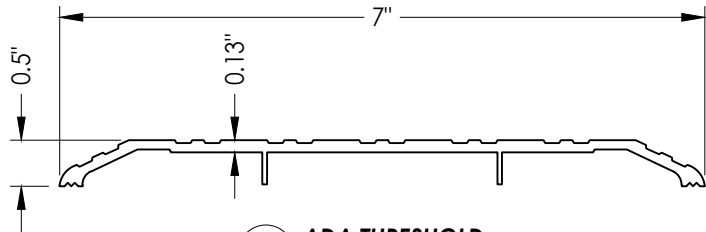
3 MULLION
VERSA-LAM® 3100 Fb-2.0E



14 OUTSWING THRESHOLD
WORLDWIDE



15 INSWING THRESHOLD
WORLDWIDE



16 ADA THRESHOLD

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:
BILL OF MATERIALS
& COMPONENTS

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

DATE: 02/14/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21891.2

SHEET 12 OF 12