

BRANNEN MILLWORK

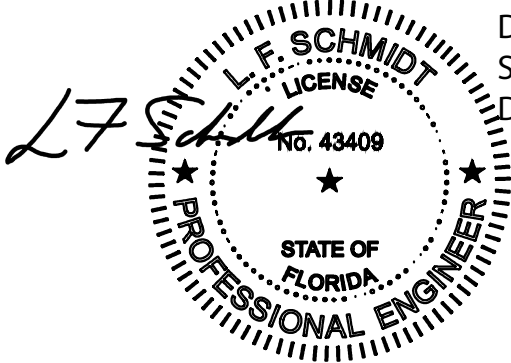
3379 EAST HWY. 46
REGISTER, GEORGIA 30452

OPAQUE WOOD DOOR
w/ 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 excluding the "High Velocity Hurricane Zone".
- 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 E 1996 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.

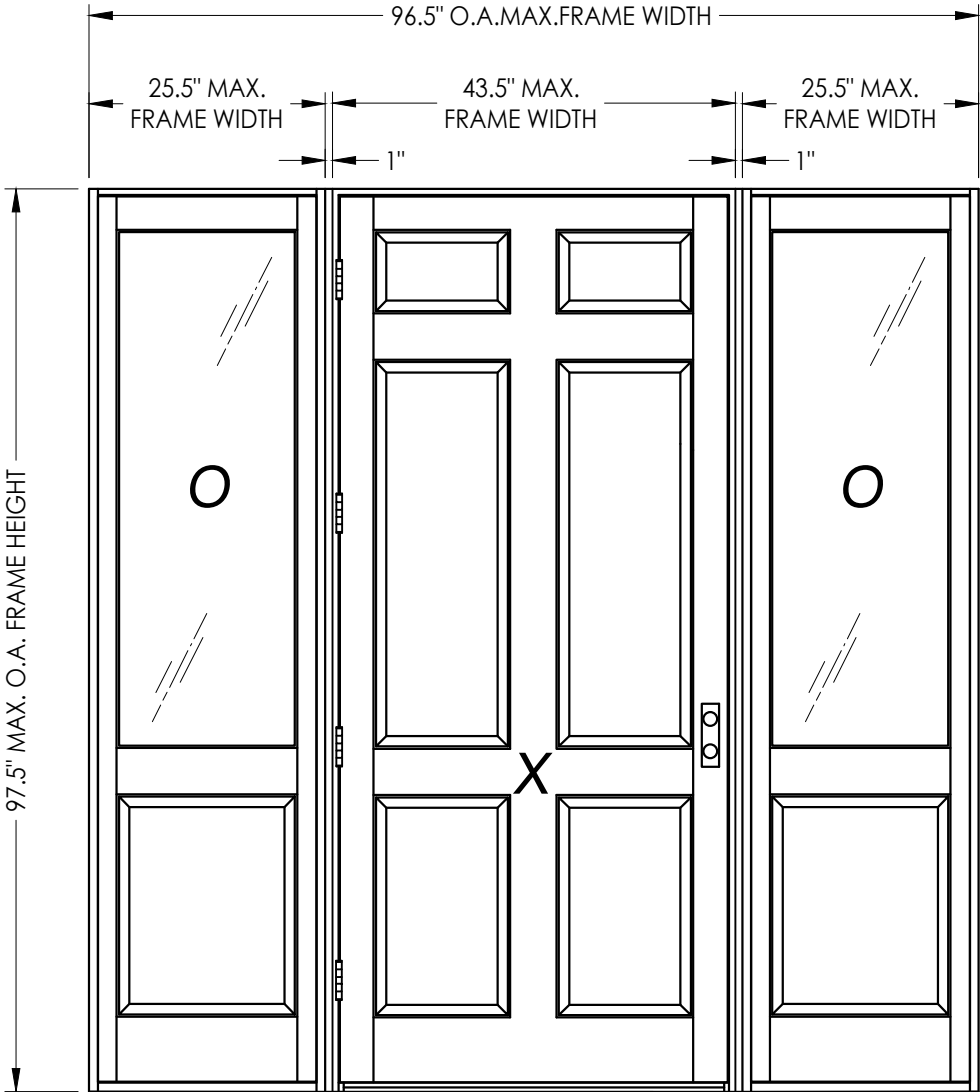
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11	HARDWARE ANCHORING DETAILS
12	COMPONENTS
13	BILL OF MATERIALS



Digitally signed by Lyndon F Schmidt
Date: 2023.10.12 10:05:58 -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



LOCK TYPE	OVERALL FRAME DIMENSION	SWING	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
HOPPE MULTI-POINT LOCK	96.5" x 97.5"	INSWING	+55.0	-60.0
		OUTSWING	+55.0	-55.0

SEE SHEET 4 FOR GLAZING DETAIL DESIGN PRESSURE LIMITATIONS

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

BRANNEN MILLWORK
WOOD DOOR

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

4	10/4/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	07/11/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	08/10/15	UPDATE TO 5TH ED. (2014)	FBC	LFS
NO.	DATE			BY

REVISIONS

DATE: 6/25/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

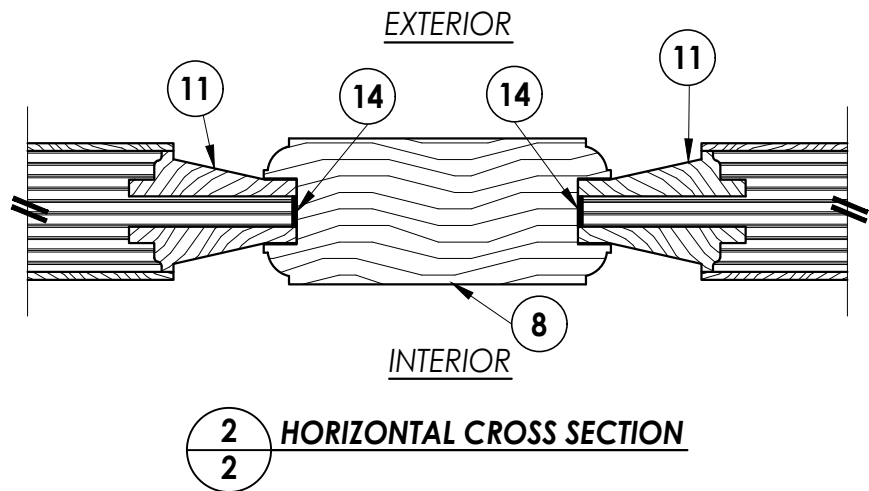
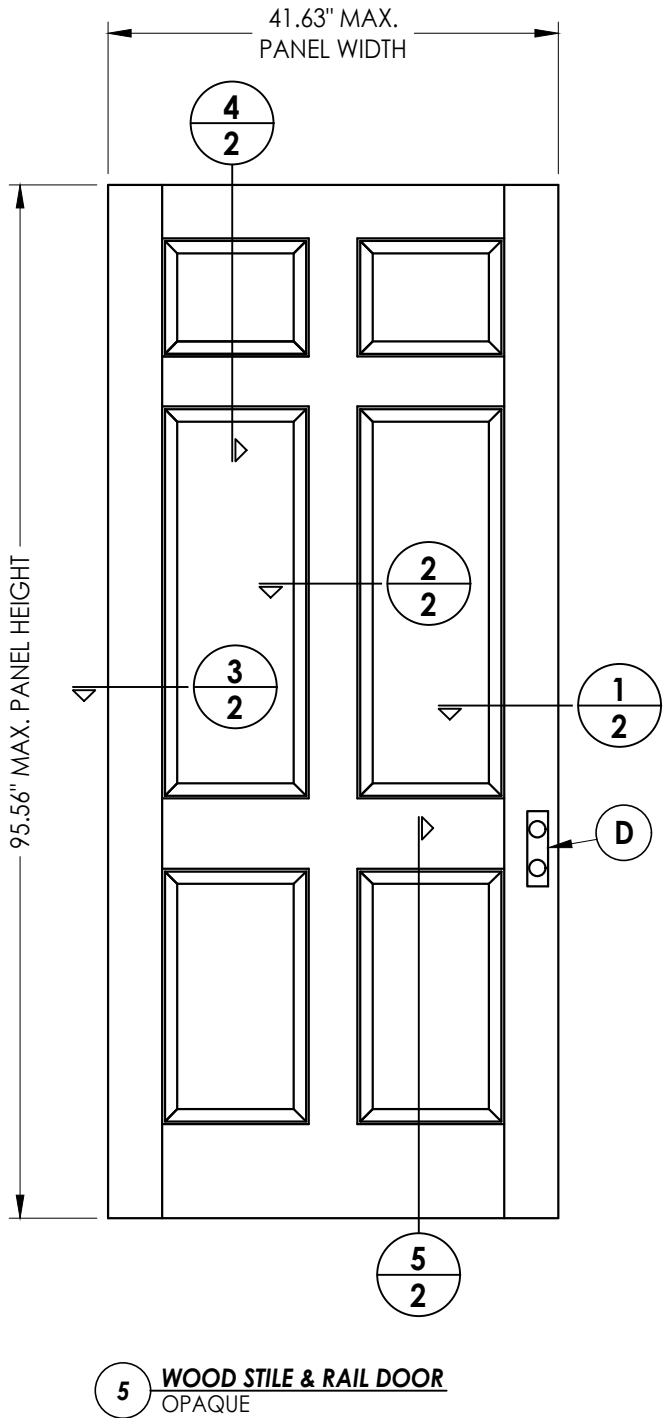
DRAWING NO.: FL-15737.2

SHEET 1 OF 13

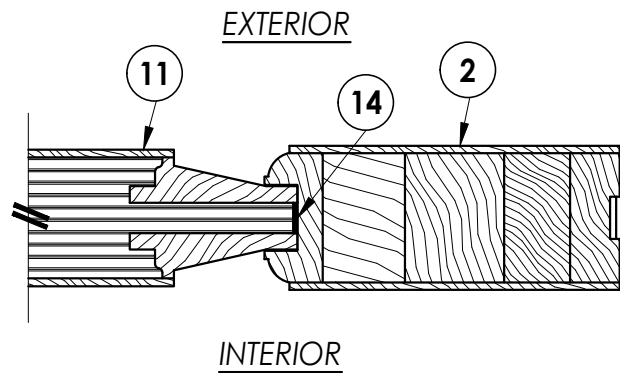
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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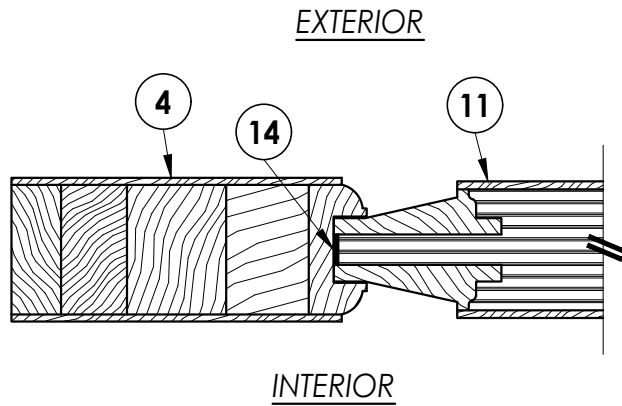
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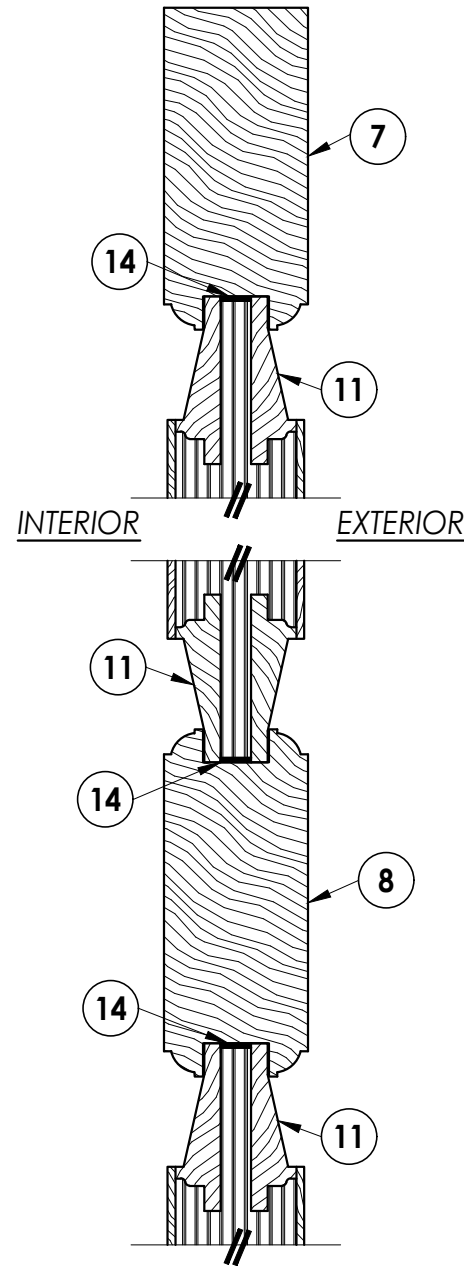
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2 **HORIZONTAL CROSS SECTION**



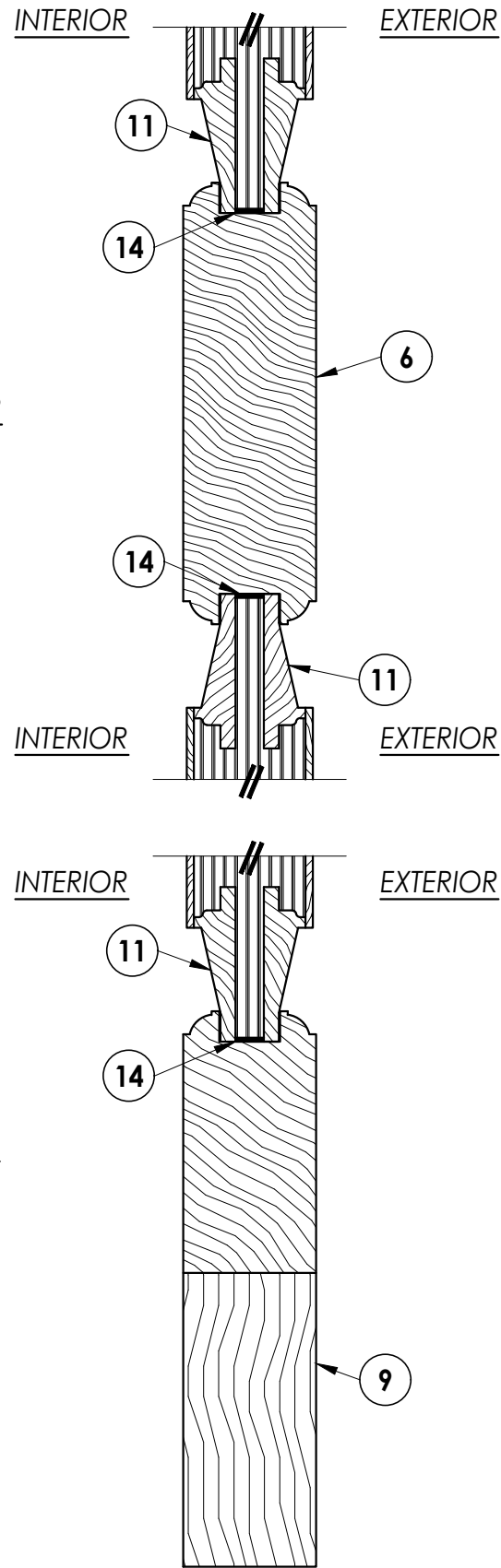
1
2 **HORIZONTAL CROSS SECTION**
Lock stile



3
2 **HORIZONTAL CROSS SECTION**
Hinge stile



4
2 **VERTICAL CROSS SECTION**



5
2 **VERTICAL CROSS SECTION**

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PRODUCT:
BRANNEN MILLWORK
WOOD DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
4	10/4/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	9/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
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DATE: 6/25/12

SCALE: N.T.S.

DWG. BY: JK

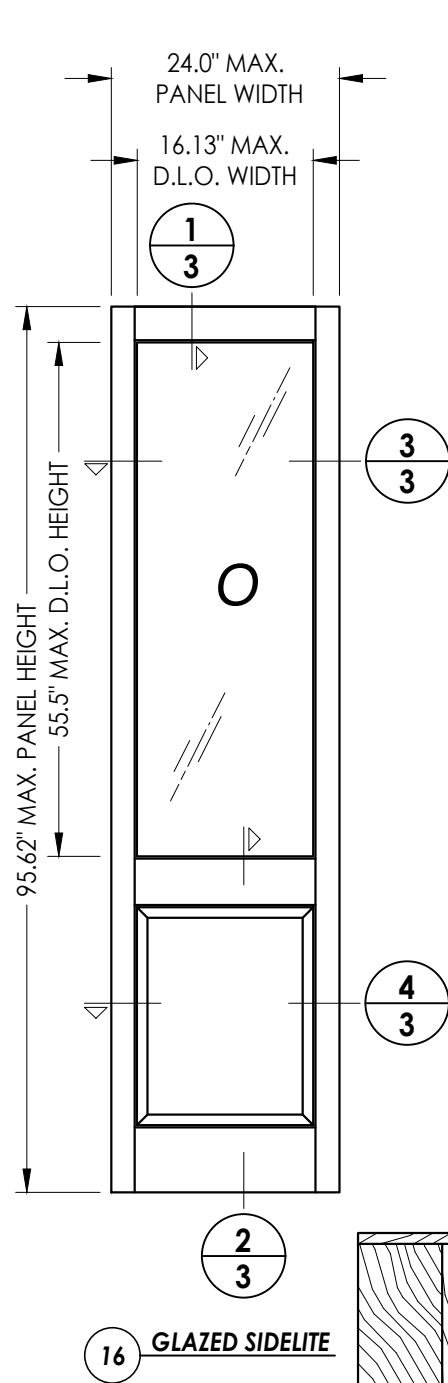
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DRAWING NO.:

FL-15737.2

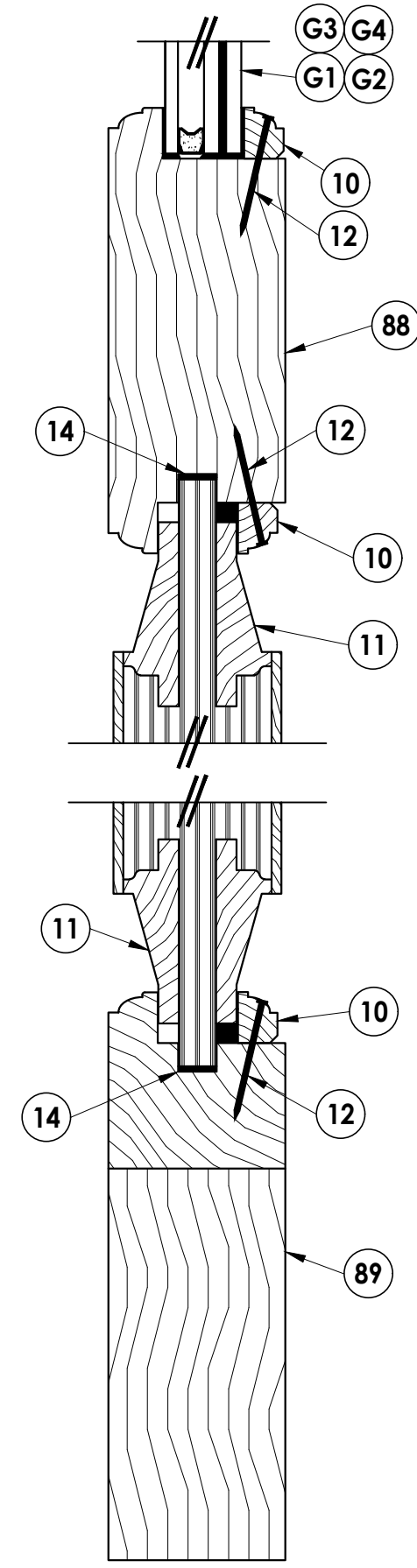
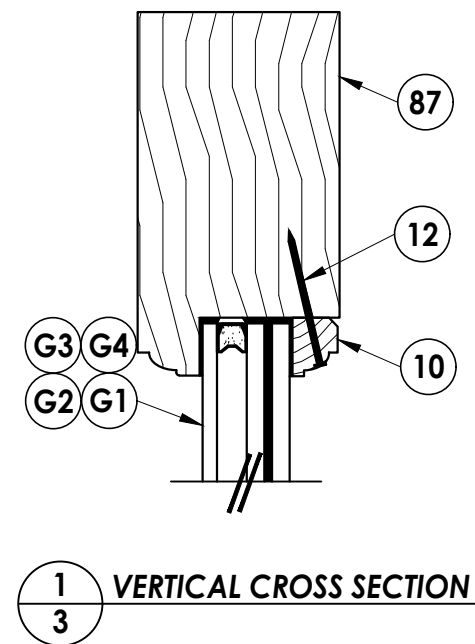
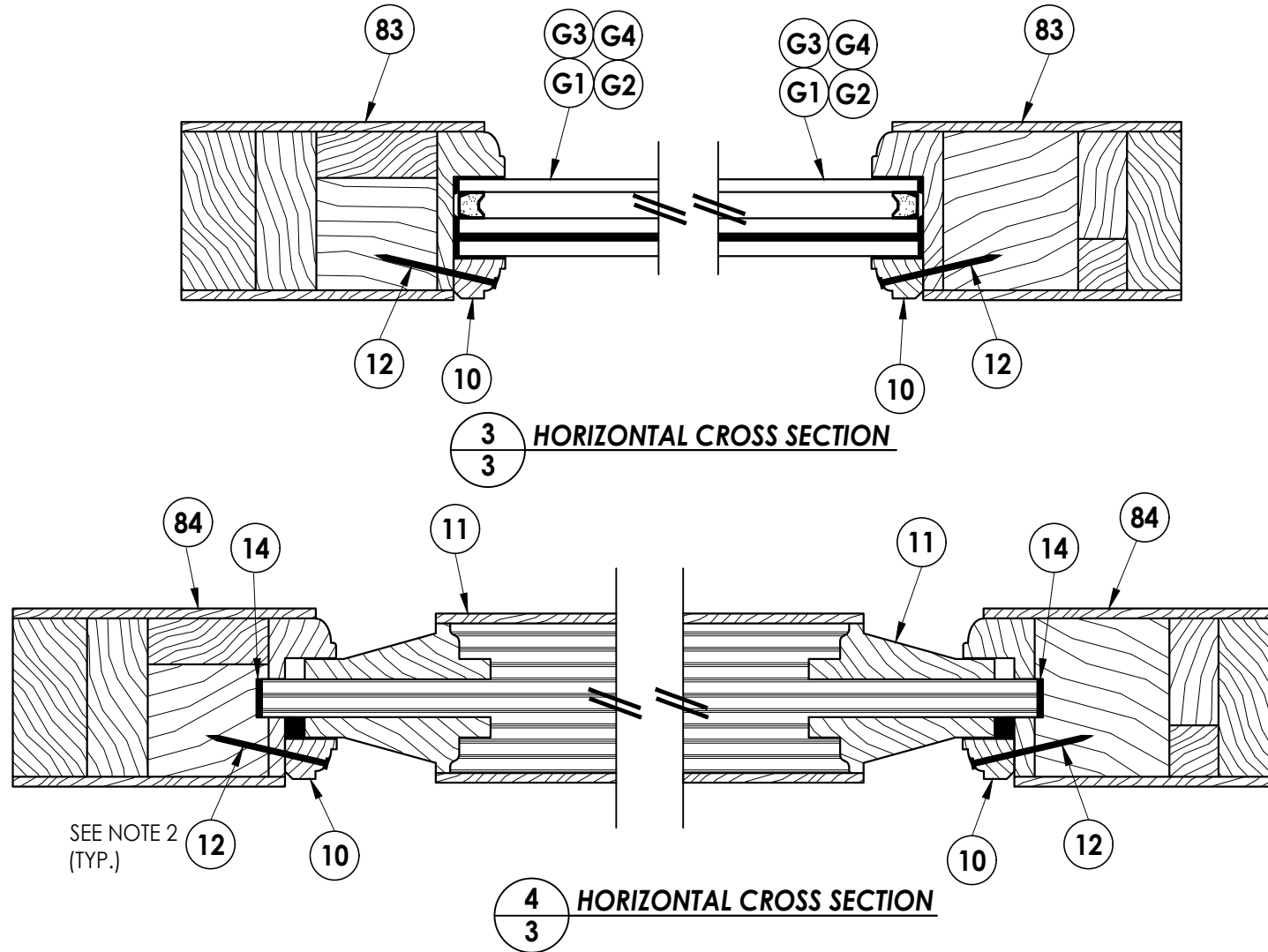
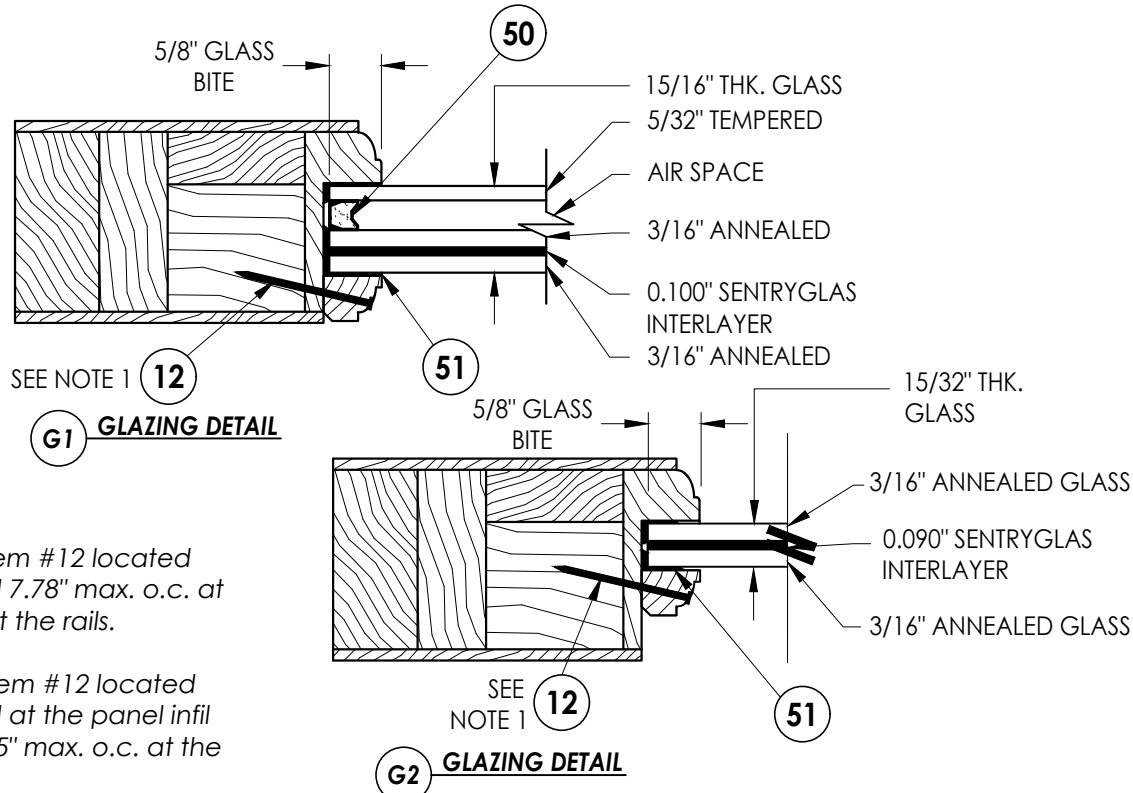
SHEET 2 OF 13

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NOTES

- Glass infil stop anchorage: item #12 located typ. 2" from each corner and 7.78" max. o.c. at the stiles & 6.125" max. o.c. at the rails.
- Panel infil stop anchorage: item #12 located typ. 2" from each corner and at the panel infil centerline at the stiles & 6.125" max. o.c. at the rails.



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PRODUCT:
BRANNEN MILLWORK
WOOD DOOR

PART OR ASSEMBLY:
3/4 SIDELITE PANEL DETAILS
AND GLAZING DETAILS

NO.	DATE	REVISIONS
4	10/4/23	UPDATE TO 8TH ED. (2023) FBC
3	9/16/20	UPDATE TO 7TH ED. (2020) FBC
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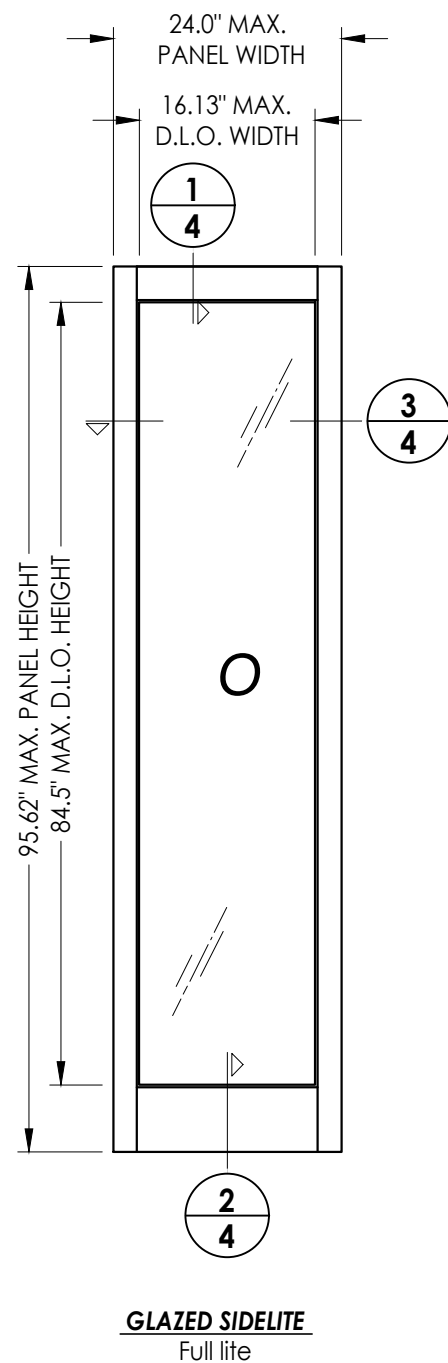
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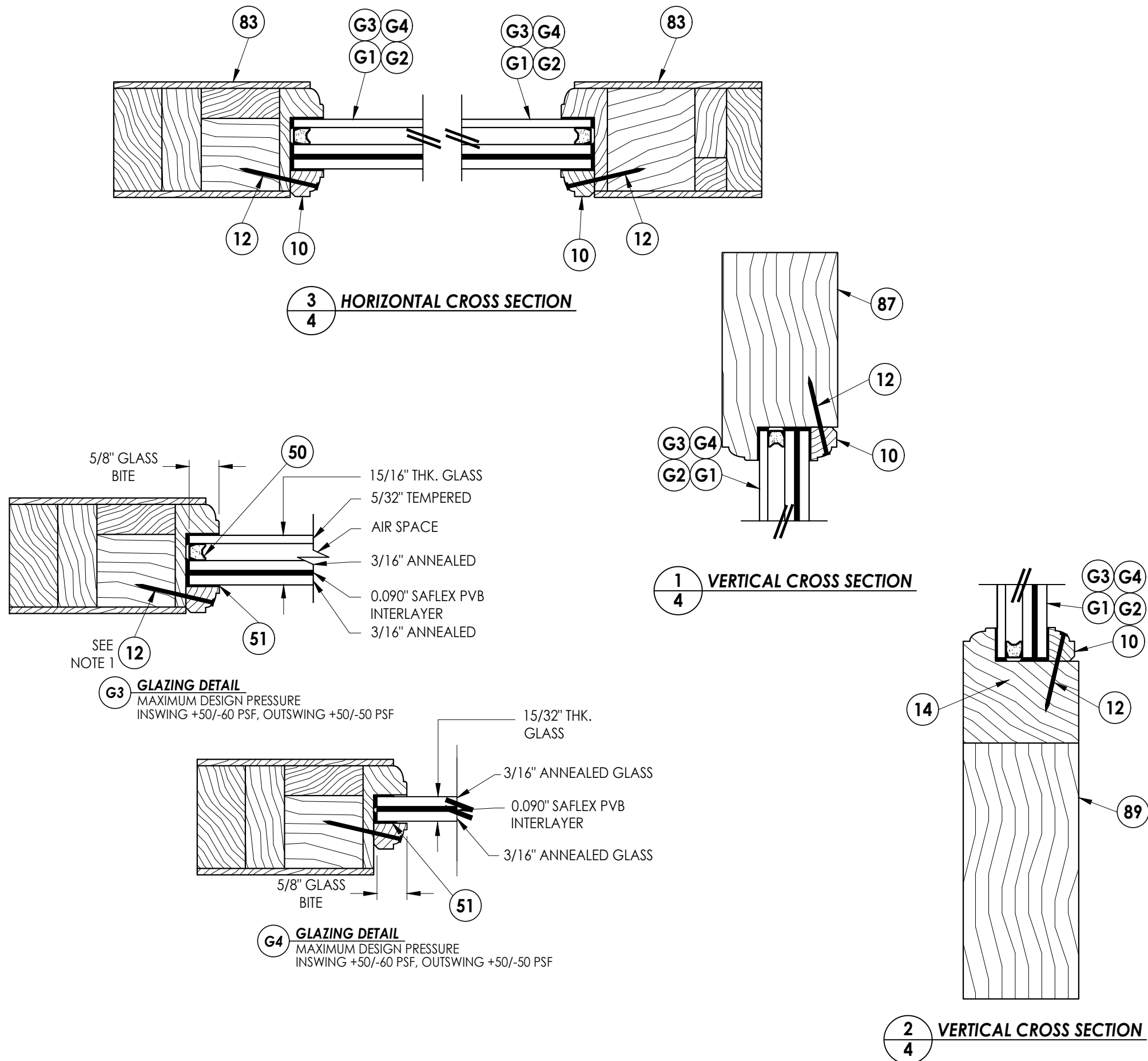
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SHEET 3 OF 13



NOTES

1. Glass infill stop anchorage: item #12 located typ. 2" from each corner and 7.78" max. o.c. at the stiles & 6.125" max. o.c. at the rails.

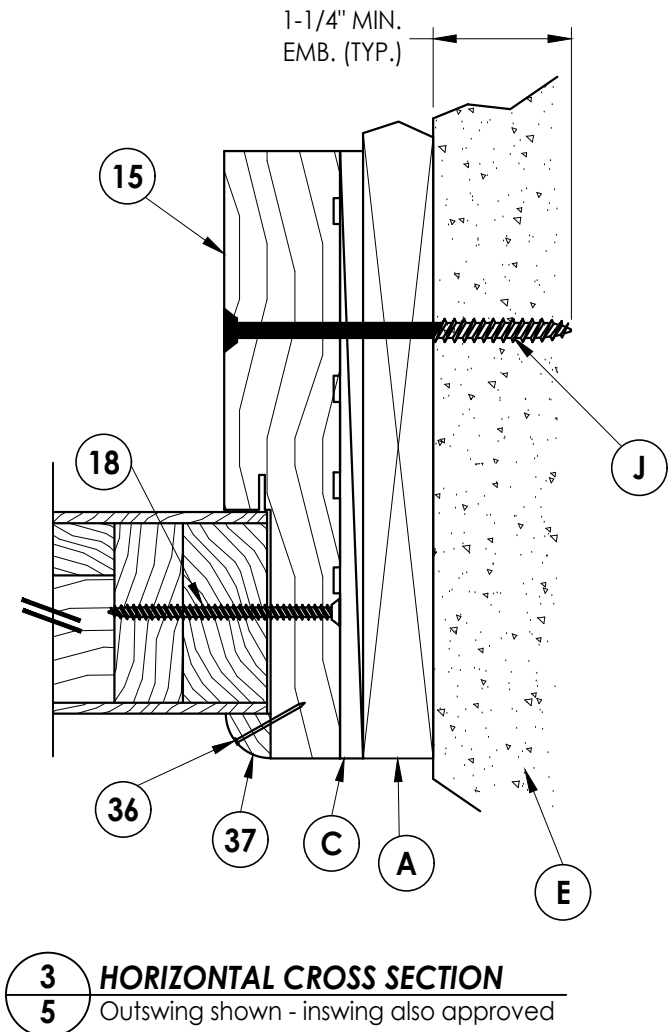
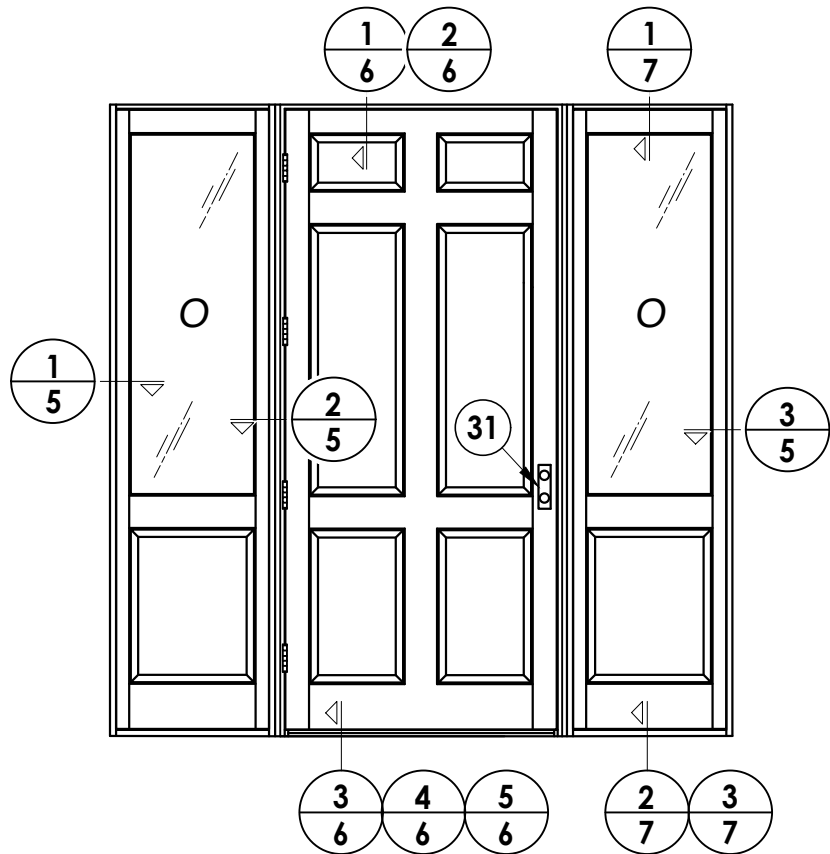
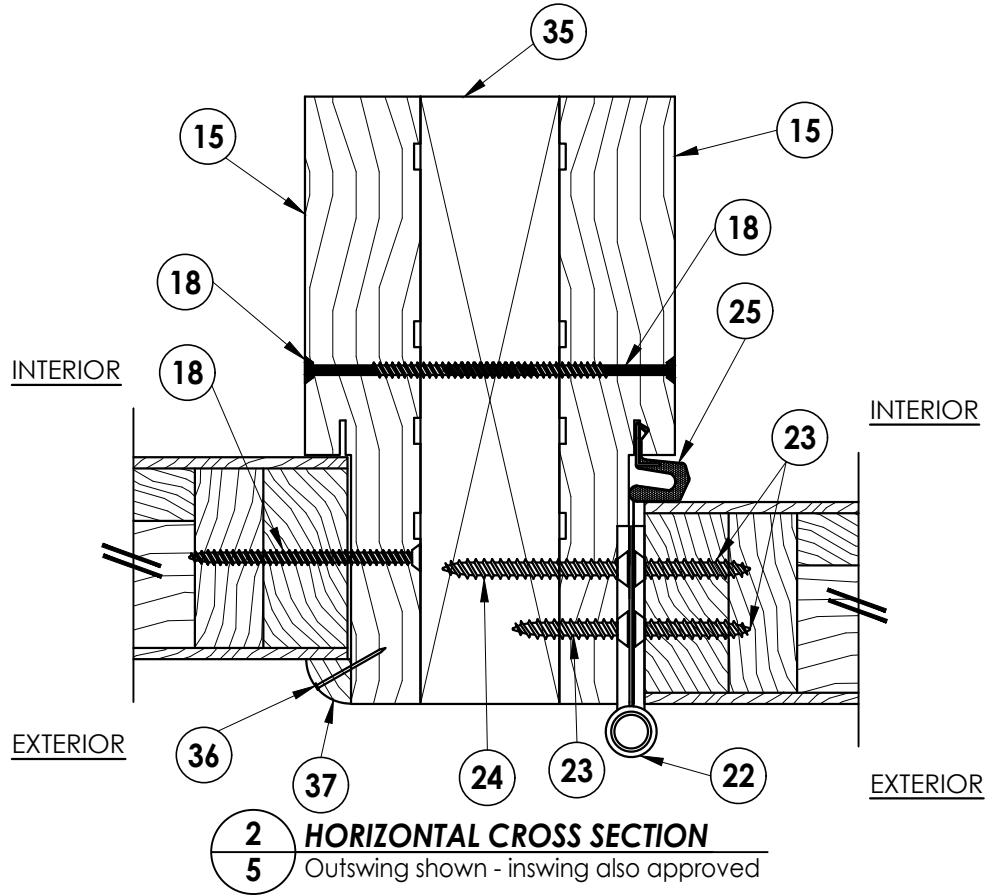
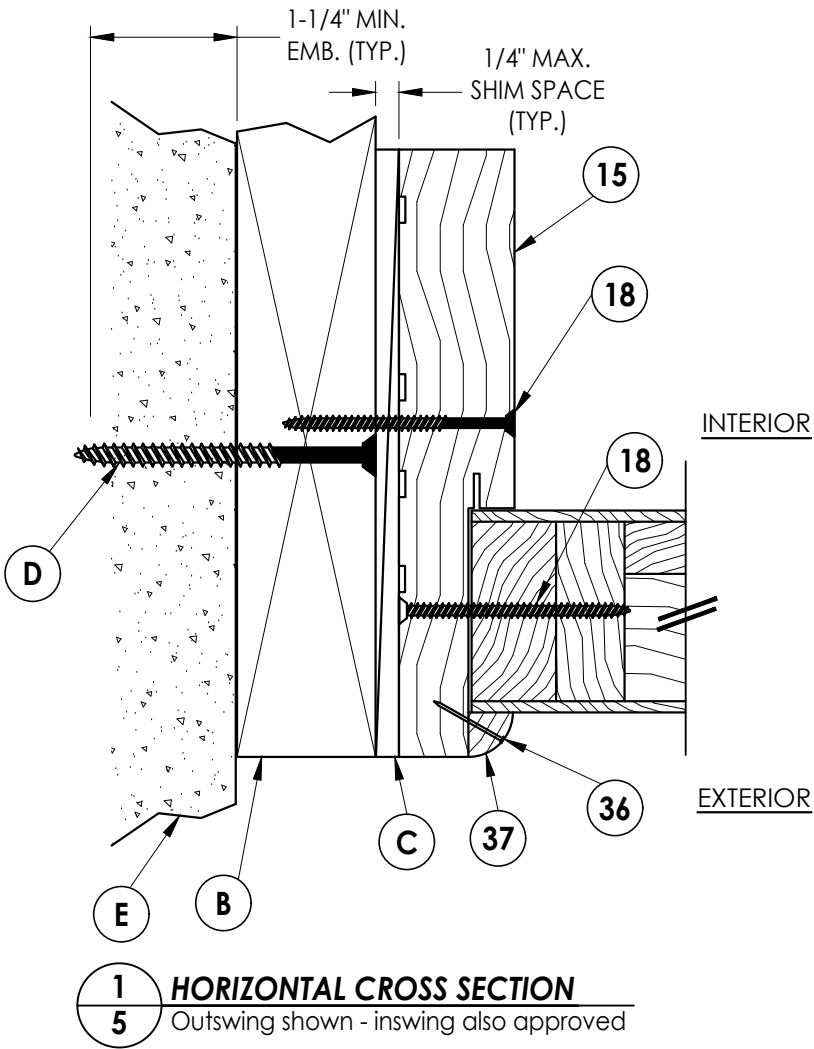
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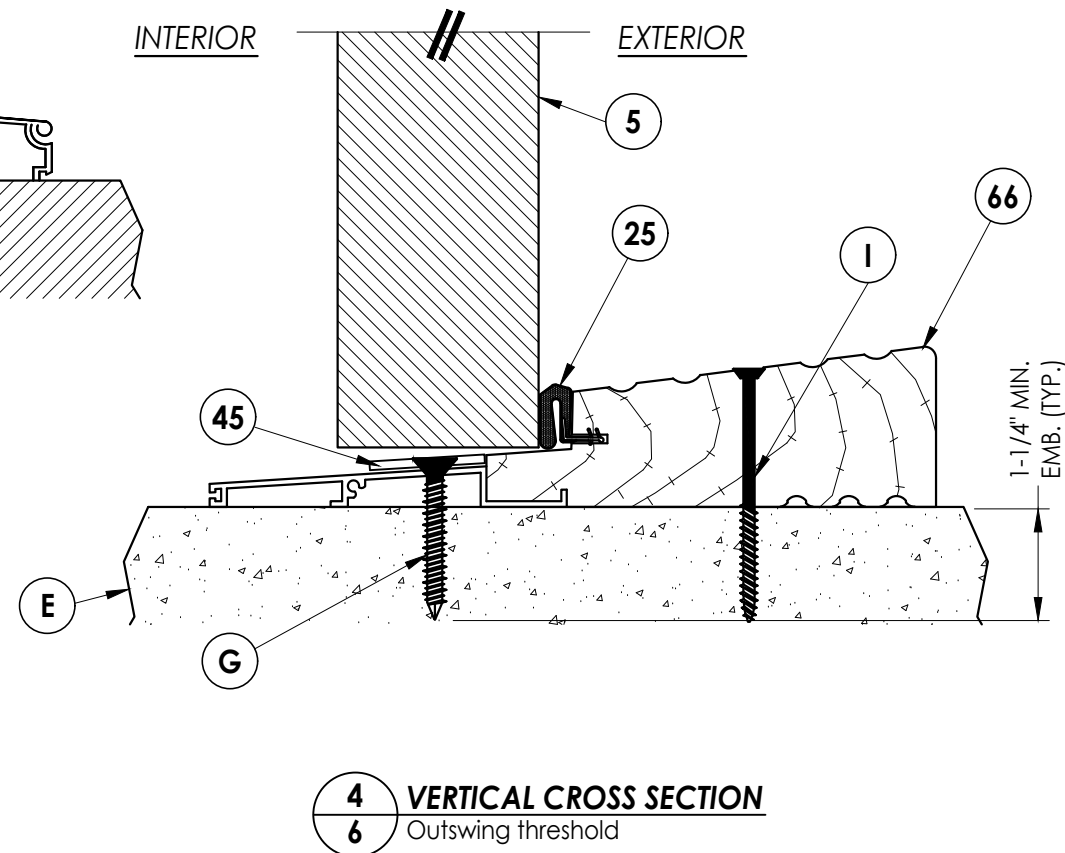
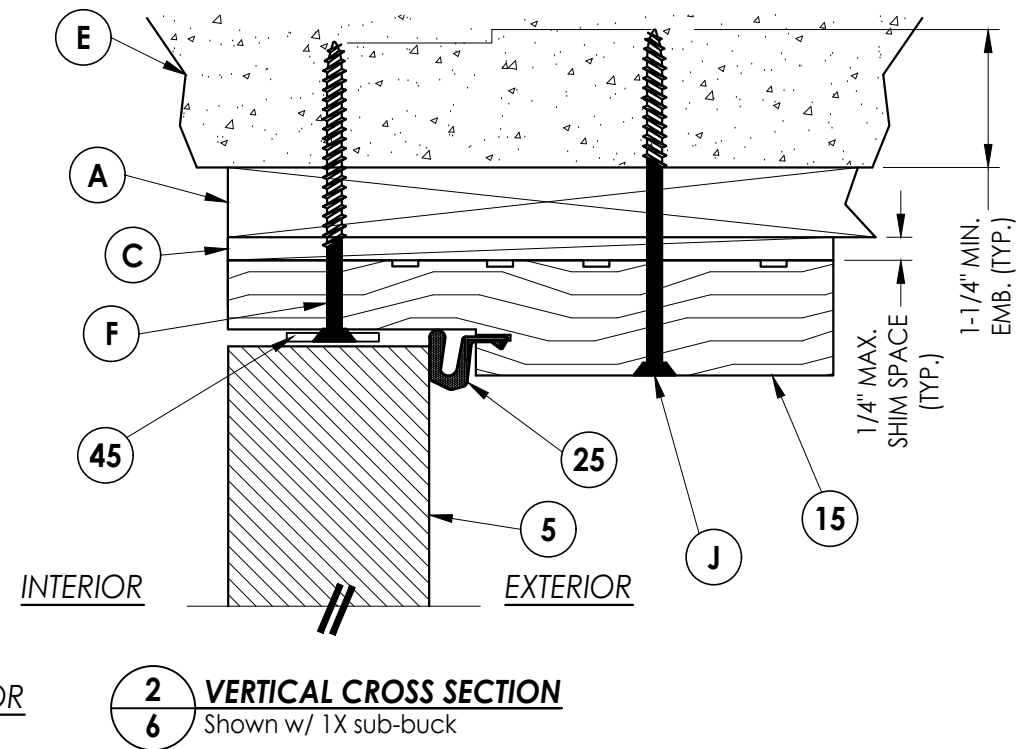
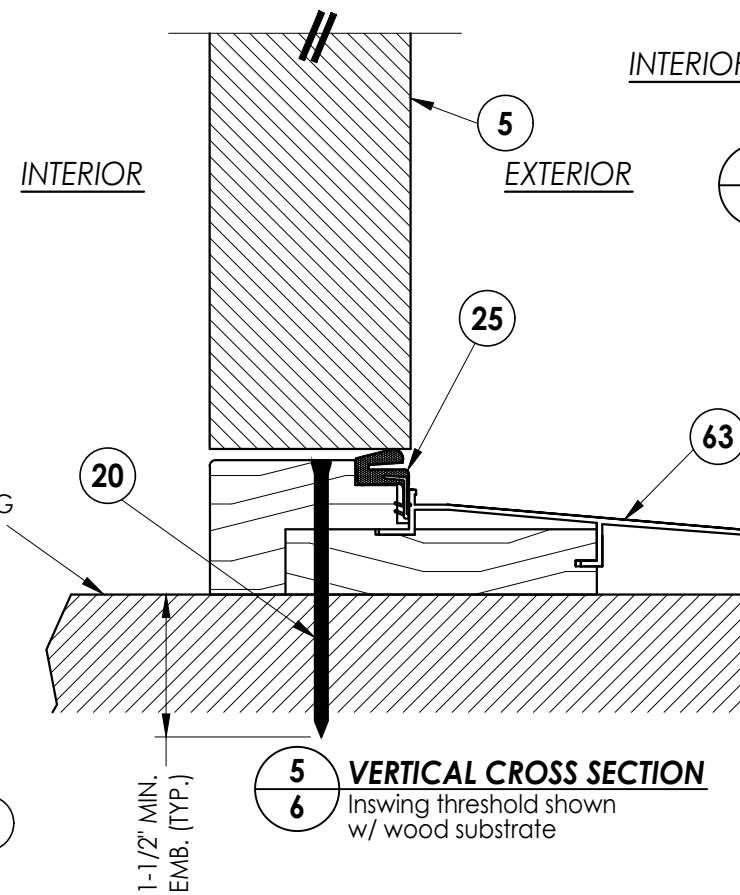
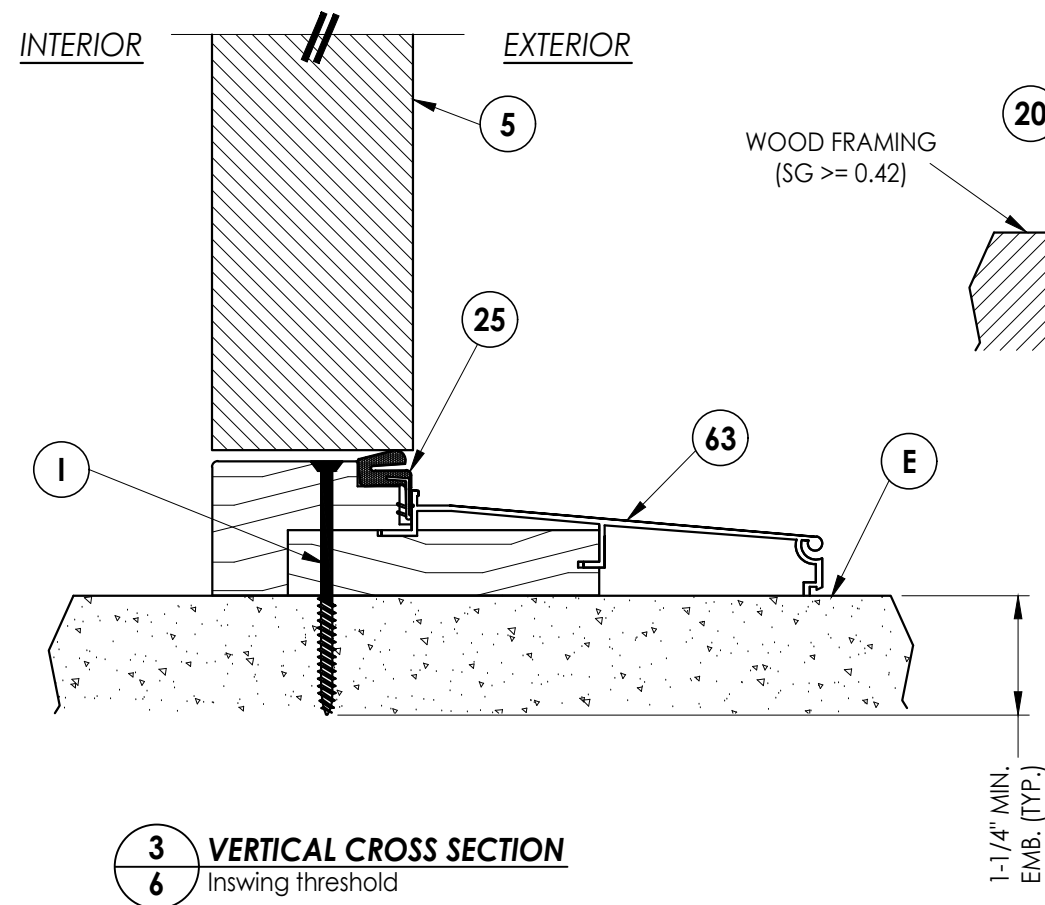
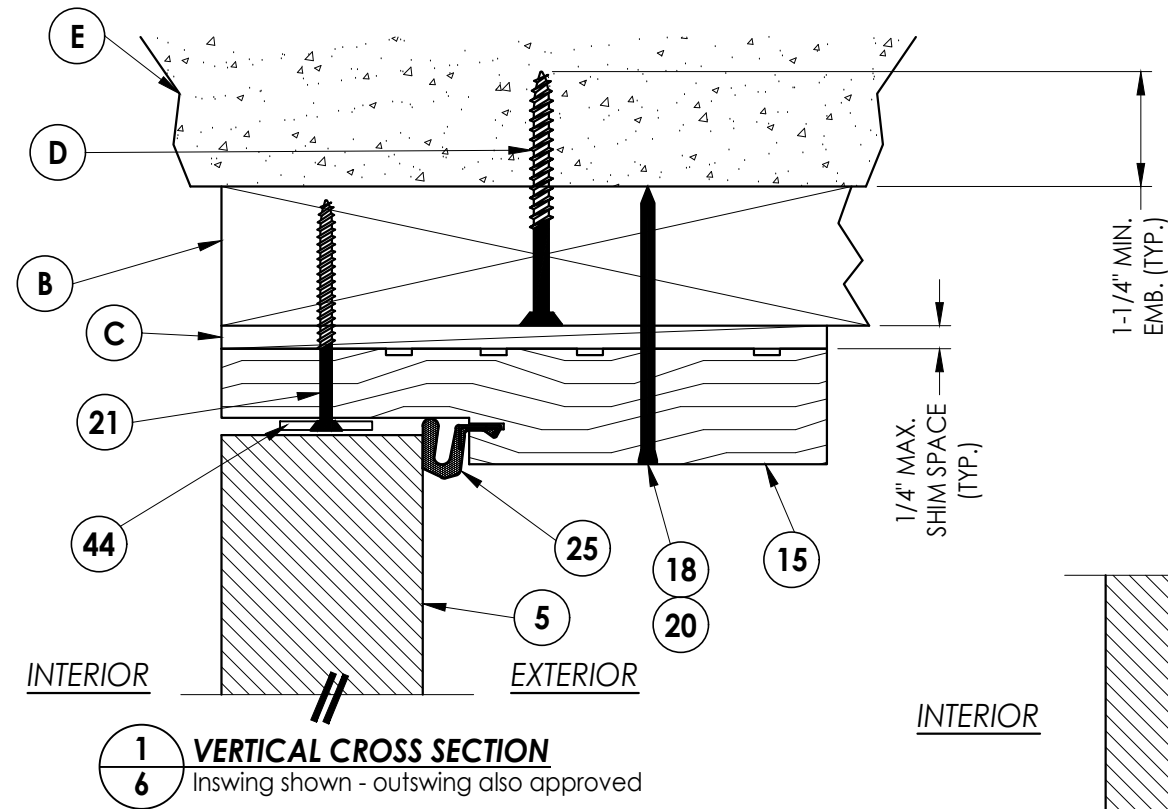


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SCALE: N.T.S.		3		9/16/20		LFS	
DWG. BY: JK		2		07/11/17		LFS	
CHK. BY: LFS		1		08/10/15		LFS	
DRAWING NO.: FL-15737.2							
SHEET 5 OF 13							

PRODUCT:		PART OR ASSEMBLY:	
BRANNEN MILLWORK WOOD DOOR		HORIZONTAL CROSS SECTIONS	

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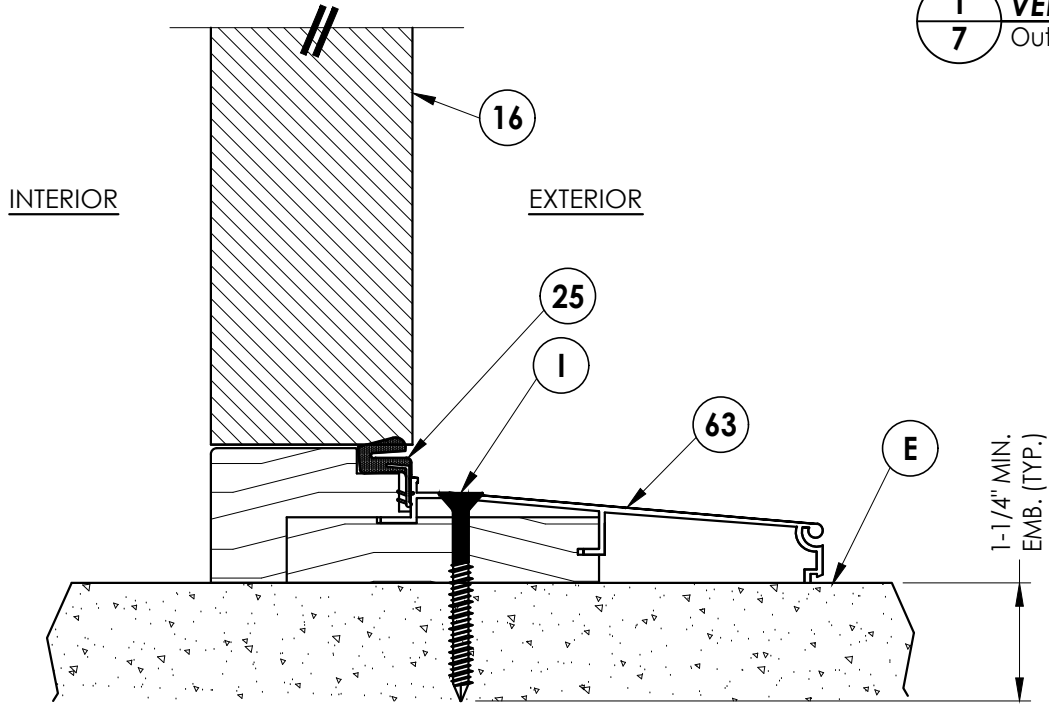
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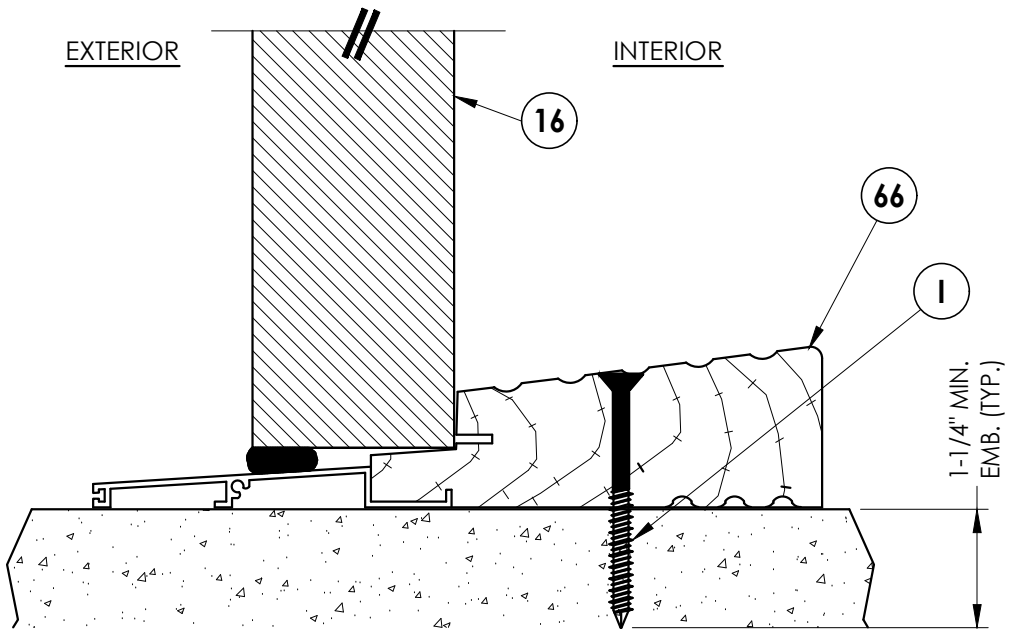
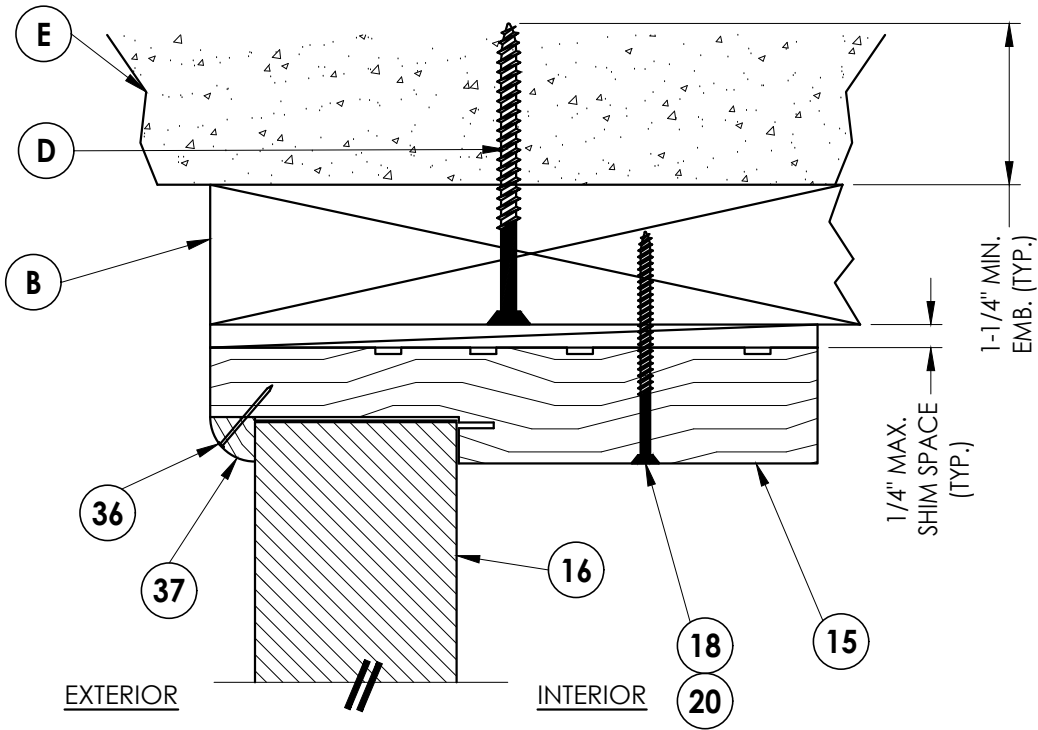
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2
7 **VERTICAL CROSS SECTION**
Inswing threshold

1
7 **VERTICAL CROSS SECTION**
Outswing shown - inswing also approved



3
7 **VERTICAL CROSS SECTION**
Outswing threshold

DATE		NO.		DATE		BY	
6/25/12		4		10/4/23		LFS	
N.T.S.		3		9/16/20		LFS	
JK		2		07/11/17		LFS	
LFS		1		08/10/15		LFS	
FL-15737.2							
7							

PRODUCT:		PART OR ASSEMBLY:	
BRANNEN MILLWORK		WOOD DOOR	
VERTICAL CROSS SECTIONS			

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Lyndon F. Schmidt		P.O. Box 230, Valrico, FL 33595	
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		FBPE Registry No. 9813	

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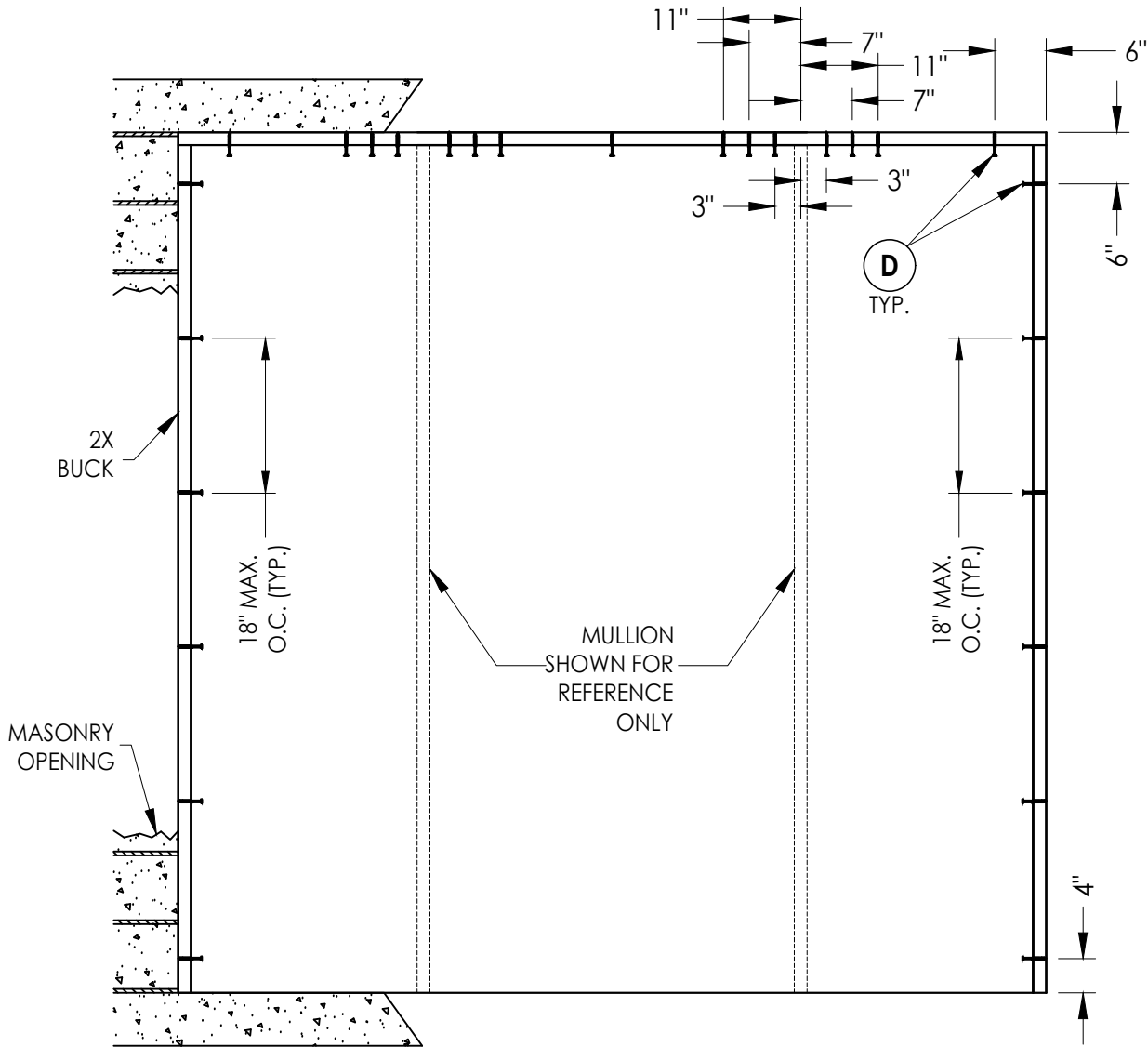
CONCRETE ANCHOR NOTES:

- 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"	3"	4"
DeWALT ULTRACON+®	1/4"	1-1/4"	2-1/2"	4"

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.



BUCK ANCHORING

		REVISIONS			
		NO.	DATE	BY	
		4	10/4/23	UPDATE TO 8TH ED. (2023)	FBC LFS
		3	9/16/20	UPDATE TO 7TH ED. (2020)	FBC LFS
		2	07/11/17	UPDATE TO 6TH ED. (2017)	FBC LFS
		1	08/10/15	UPDATE TO 5TH ED. (2014)	FBC LFS
					BY

DATE: 6/25/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

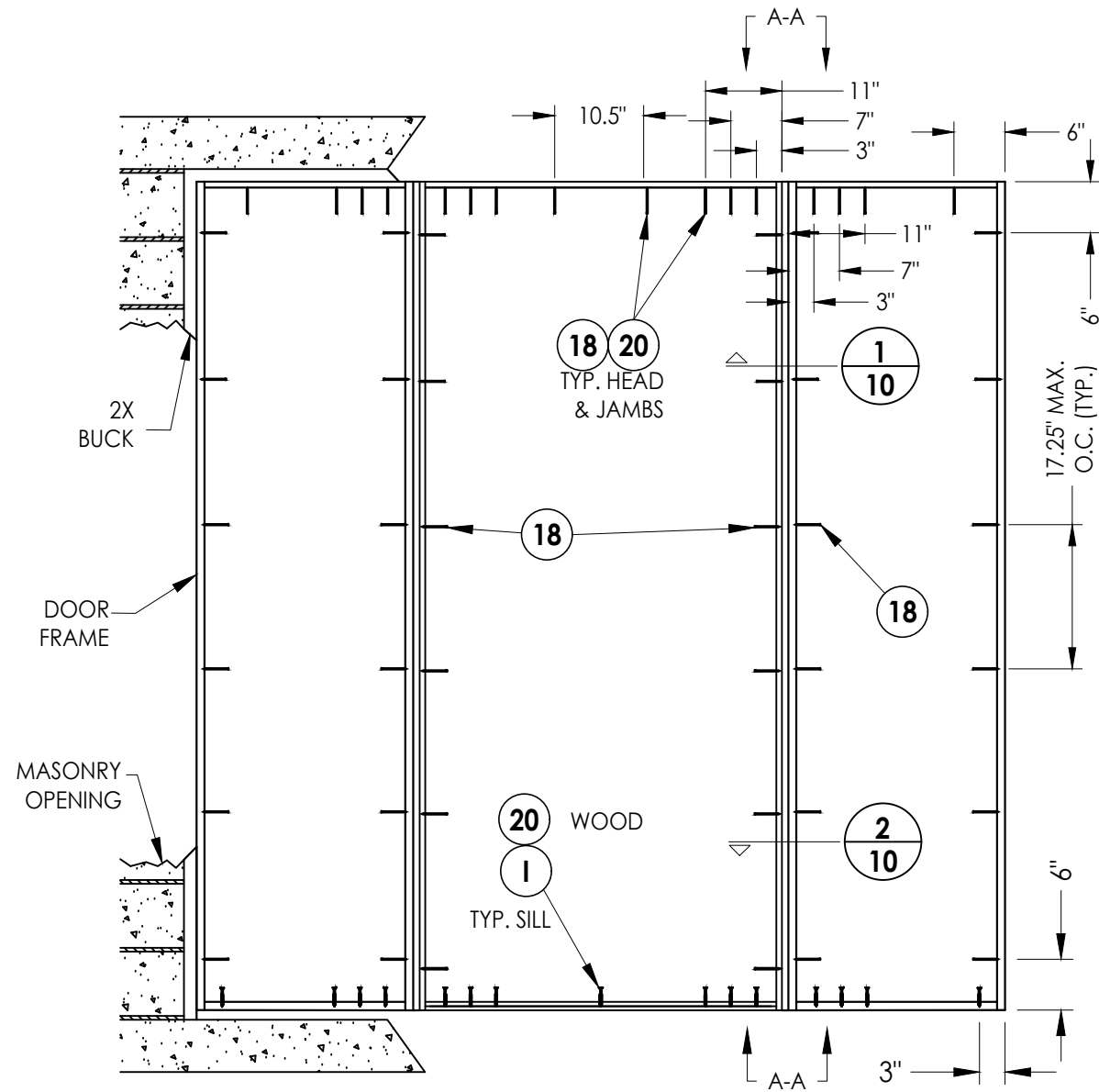
FL-15737.2

SHEET 8 OF 13

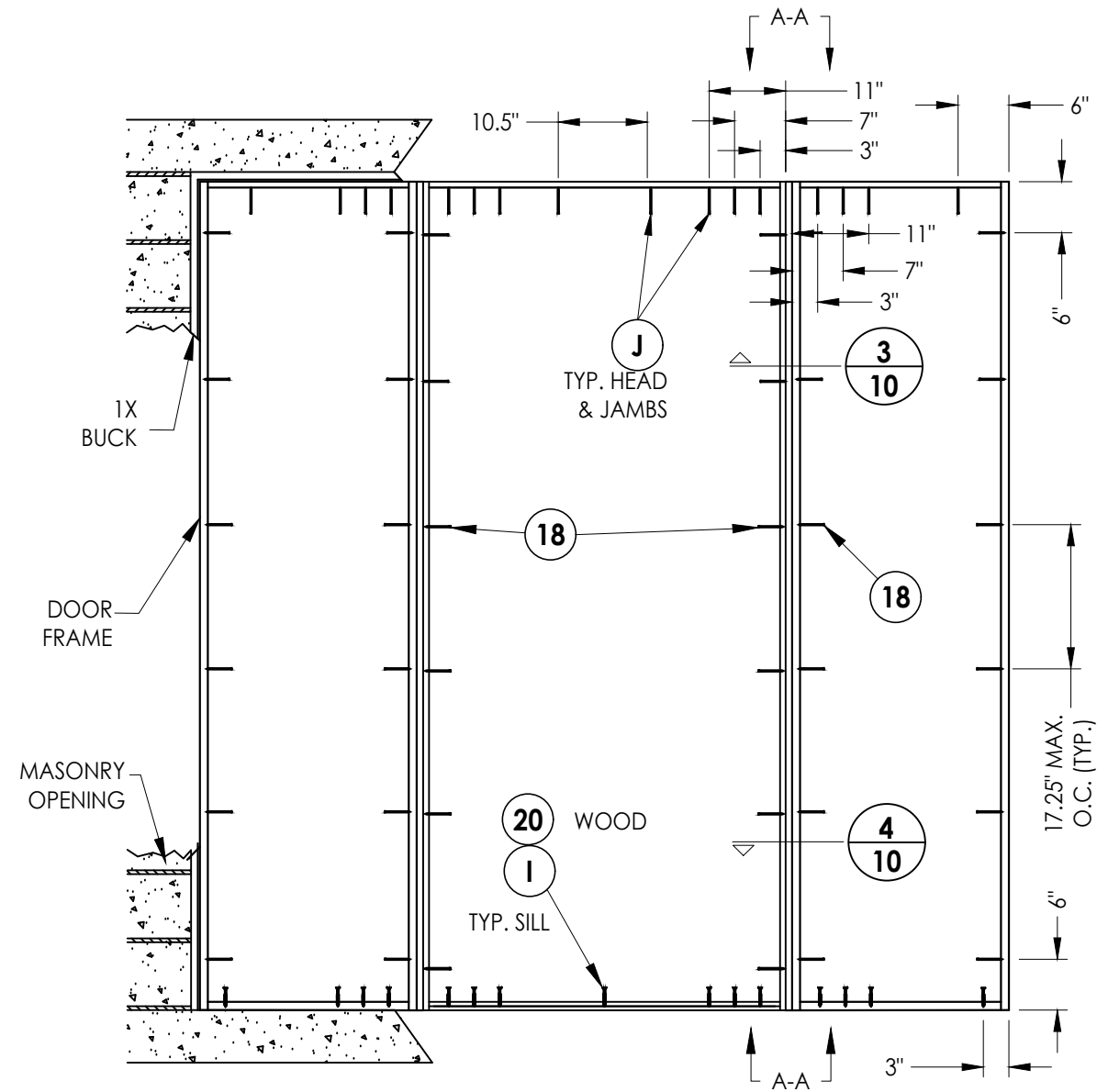
PRODUCT:	BRANNEN MILLWORK WOOD DOOR
	PART OR ASSEMBLY: BUCK ANCHORING

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



FRAME ANCHORING
Masonry 2X buck construction



FRAME ANCHORING
Masonry 1X buck construction

CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. Concrete anchor table:

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

WOOD SCREW INSTALLATION NOTES:

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

[illegible]

DATE: 6/25/12

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

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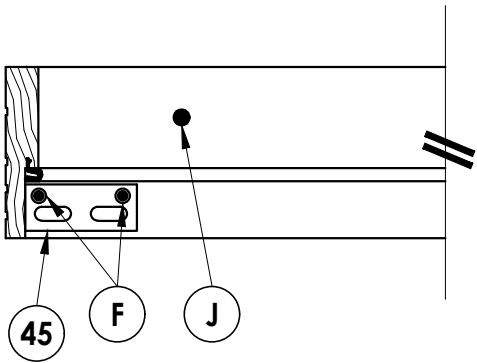
SHEET 9 OF 13

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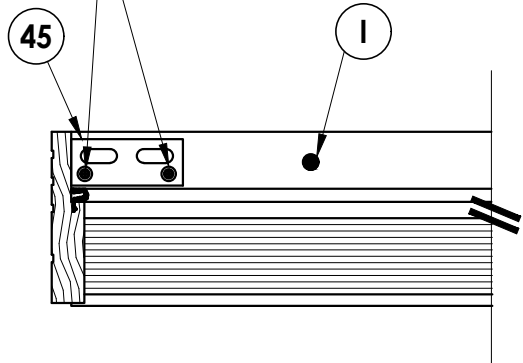
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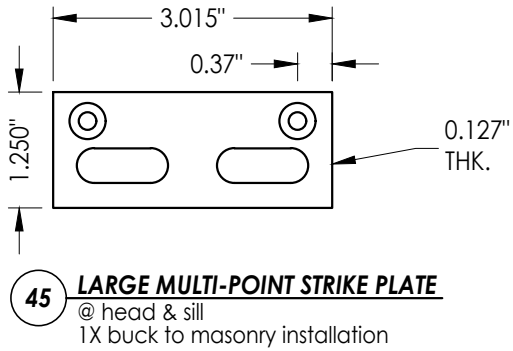


1
10 **MULTI-POINT STRIKE INSTALLATION**
View looking up @ head
Masonry 1X installation

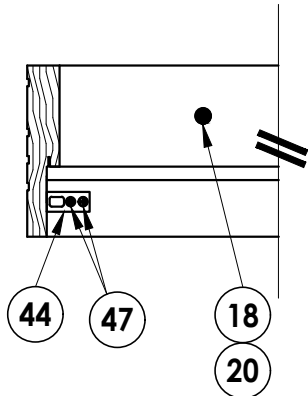
G FOR OUTSWING
F FOR INSWING



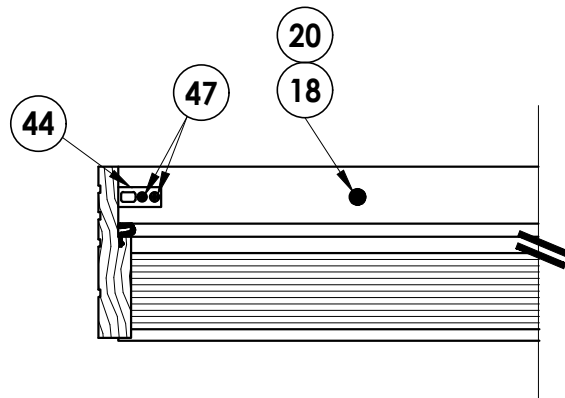
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10 **MULTI-POINT STRIKE INSTALLATION**
View looking down @ sill - inswing
Masonry substrate installation



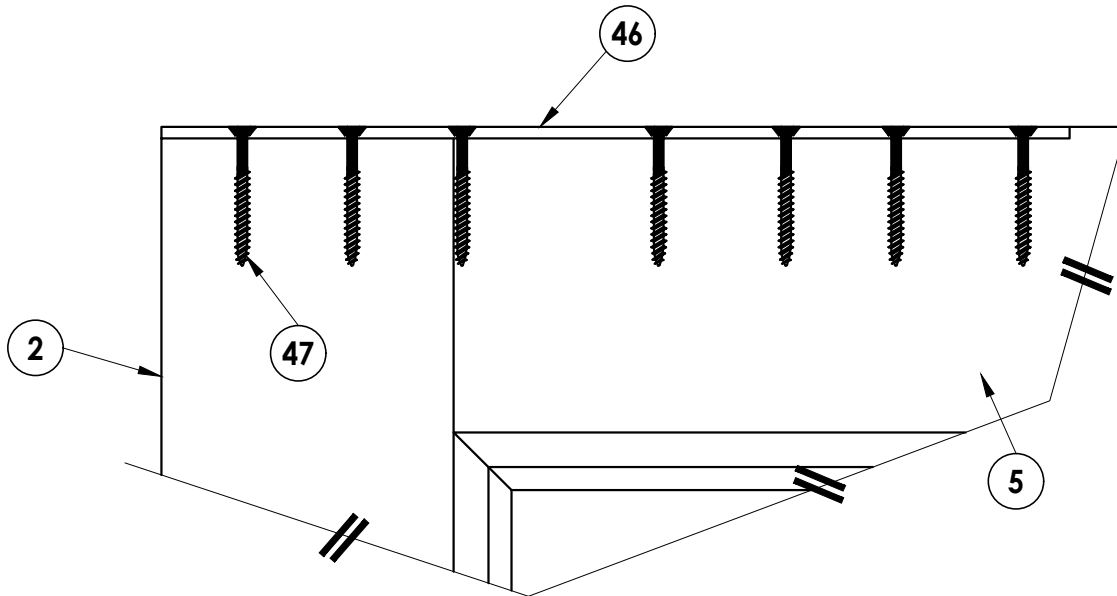
45 **LARGE MULTI-POINT STRIKE PLATE**
@ head & sill
1X buck to masonry installation



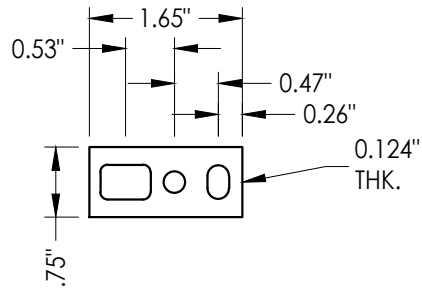
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10 **MULTI-POINT STRIKE INSTALLATION**
View looking up @ head
2X wood installation



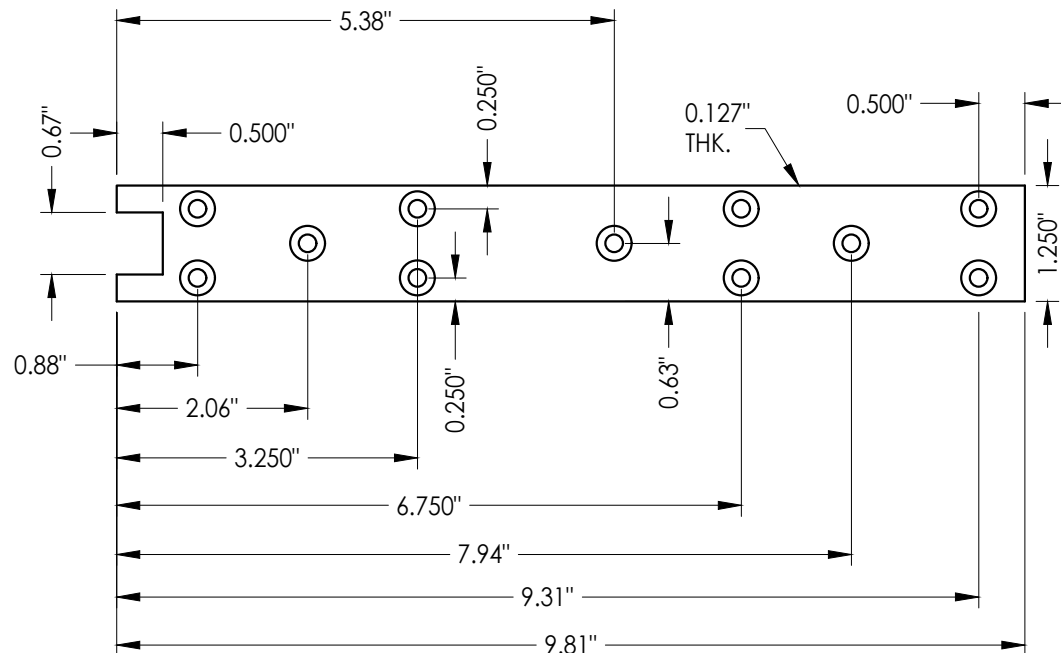
4
10 **MULTI-POINT STRIKE INSTALLATION**
View looking down @ sill - inswing
Wood substrate installation



DOOR REINF. FOR MULTIPPOINT LOCK
Typical at top & bottom of door



44 **SMALL MULTI-POINT STRIKE PLATE**
@ head & sill
2X Buck installation



46 **REINFORCEMENT PLATE**
Multi-point lock assy.
Detail "A"

Documents Prepared By:
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PRODUCT:
BRANNEN MILLWORK
WOOD DOOR

PART OR ASSEMBLY:
MULTIPPOINT LOCK
HARDWARE DETAILS

NO.	DATE	REVISIONS
4	10/4/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	9/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
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DWG. BY: JK

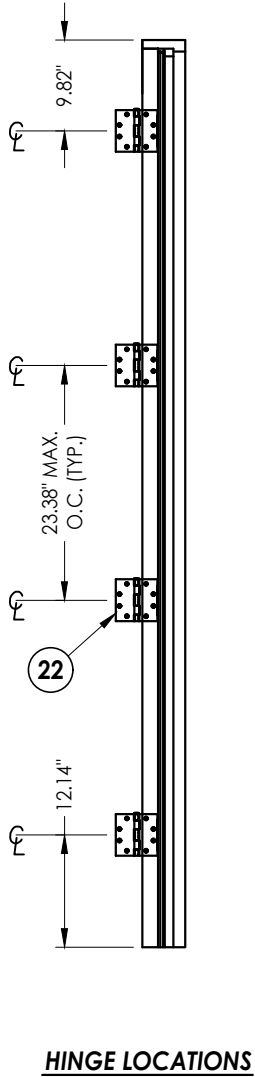
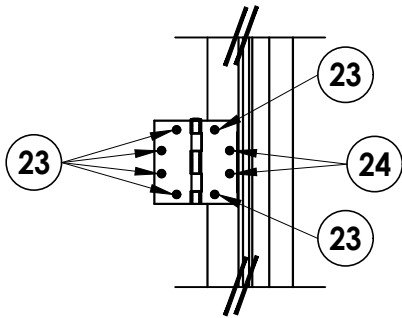
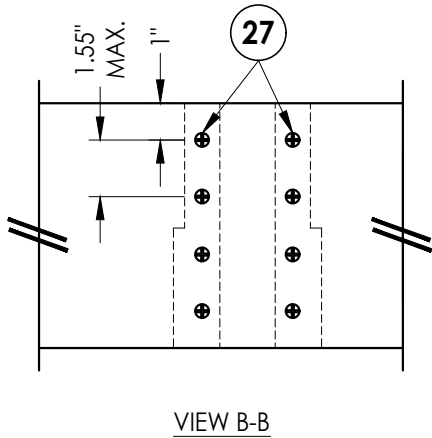
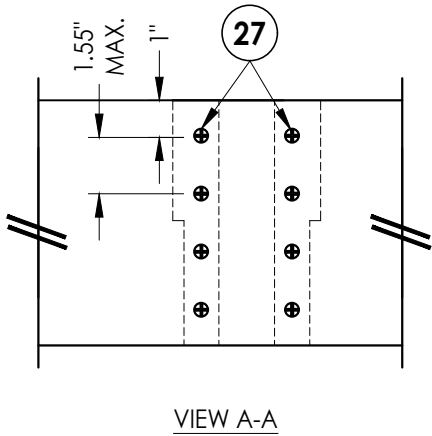
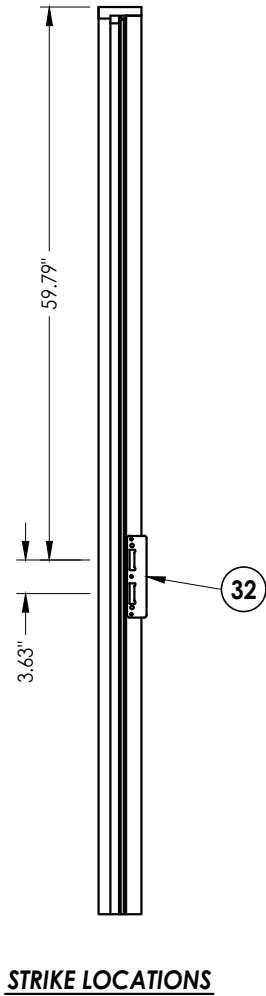
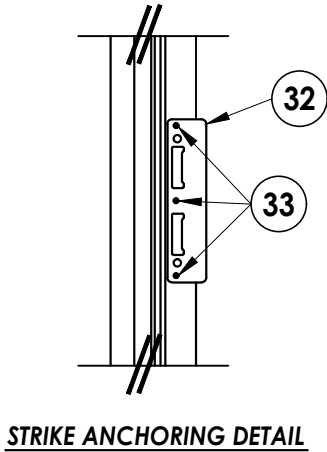
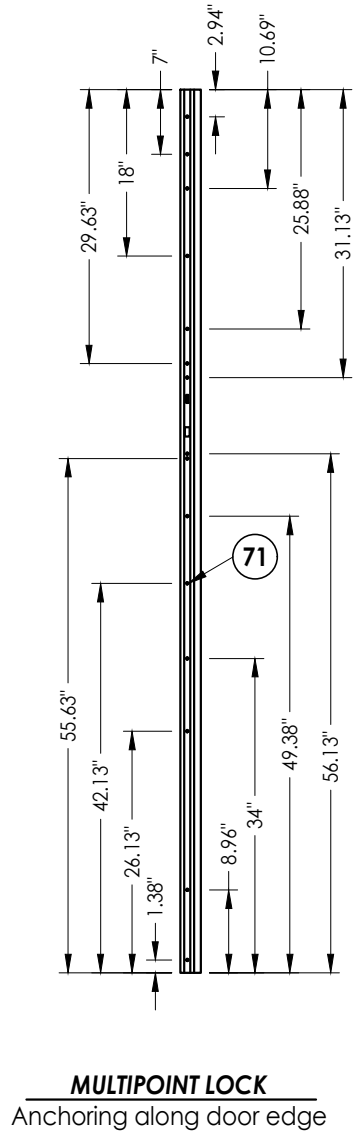
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SHEET 10 OF 13

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DATE:	6/25/12
SCALE:	N.T.S.
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CHK. BY:	LFS
DRAWING NO.:	FL-15737.2
SHEET	11 OF 13

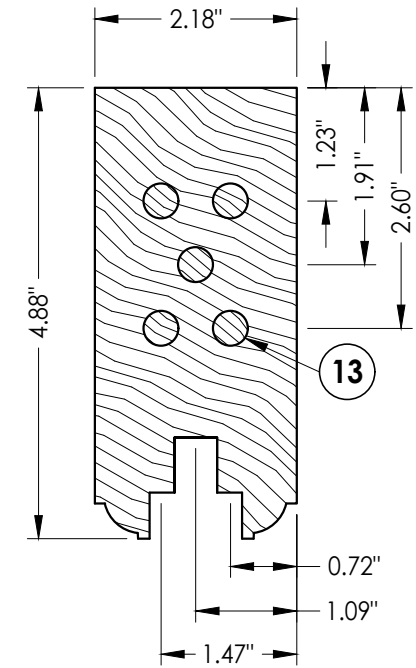
NO.	DATE	REVISIONS
4	10/4/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	9/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	07/11/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	08/10/15	UPDATE TO 5TH ED. (2014) FBC LFS

PRODUCT:	BRANNEN MILLWORK WOOD DOOR
PART OR ASSEMBLY:	HARDWARE ANCHORING DETAILS

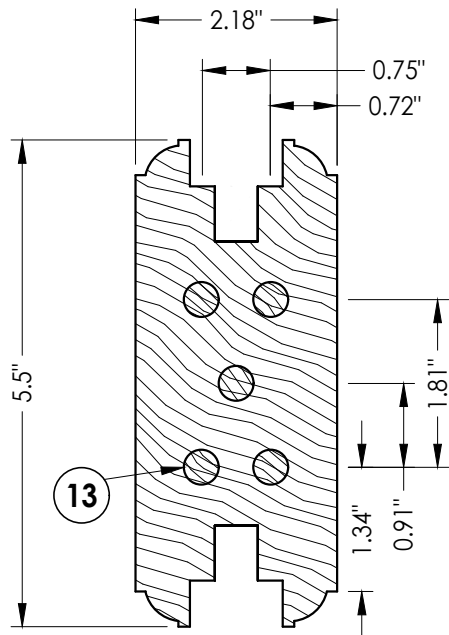
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

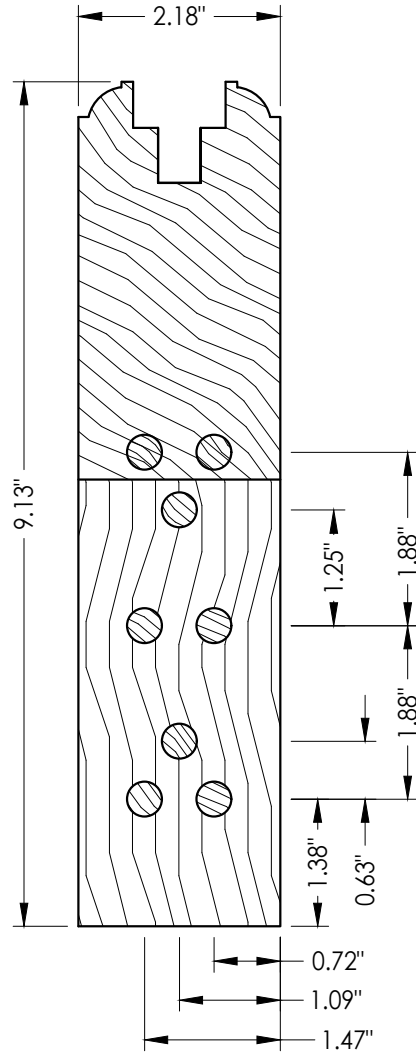
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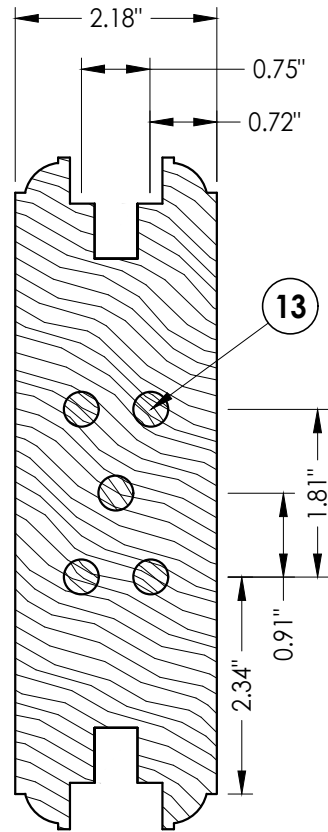
7 TOP RAIL



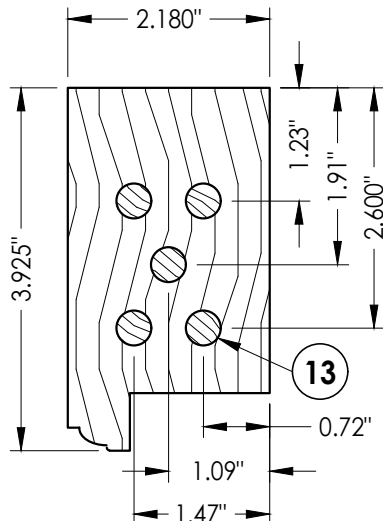
8 UPPER MID RAIL/STILE



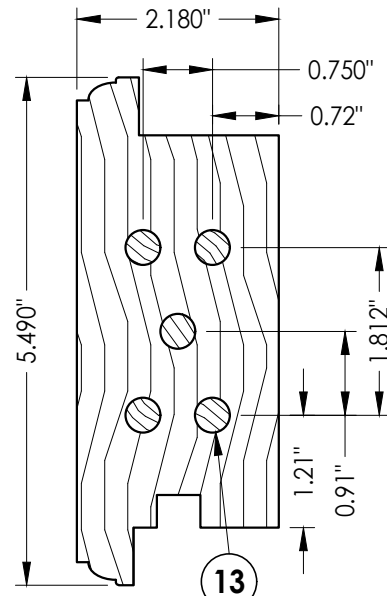
9 BOTTOM RAIL



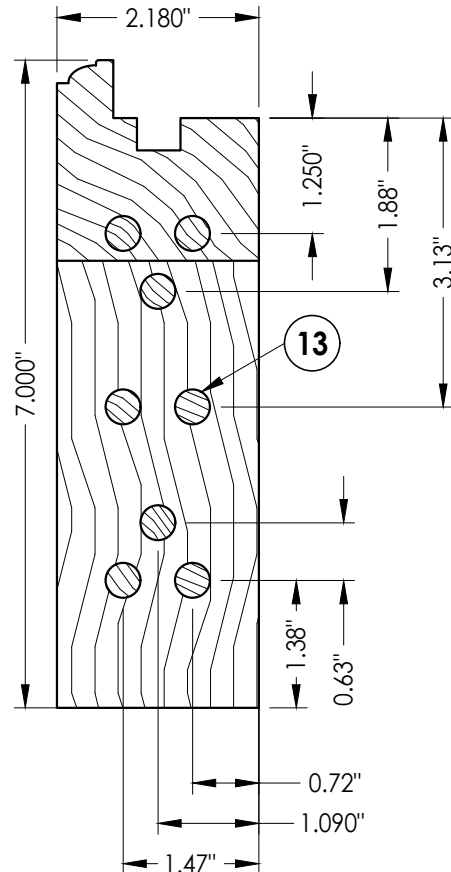
6 LOWER MID RAIL



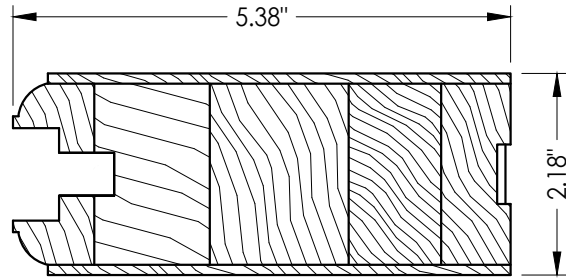
87 TOP RAIL



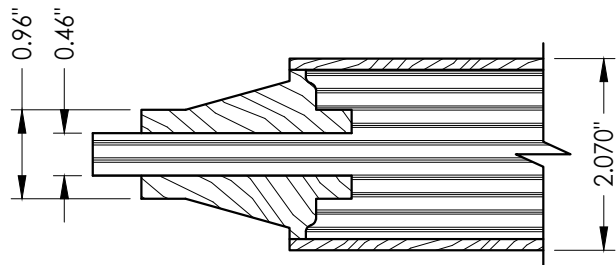
88 MID RAIL



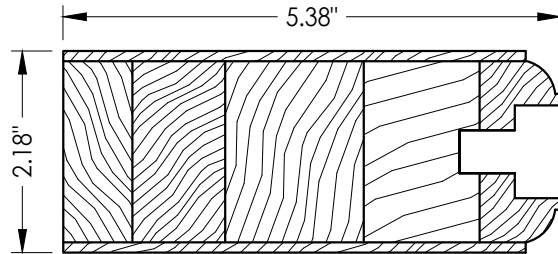
89 BOTTOM RAIL



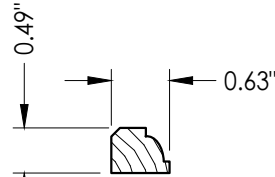
2 LATCH STILE
For panel infill



11 PANEL INFIL



4 HINGE STILE
For panel infil



10 GLASS & PANEL INFIL STOP

DATE:		SCALE:		DWG. BY:		CHK. BY:		DRAWING NO.:		SHEET	
6/25/12		N.T.S.		JK		LFS		FL-15737.2		12 of 13	

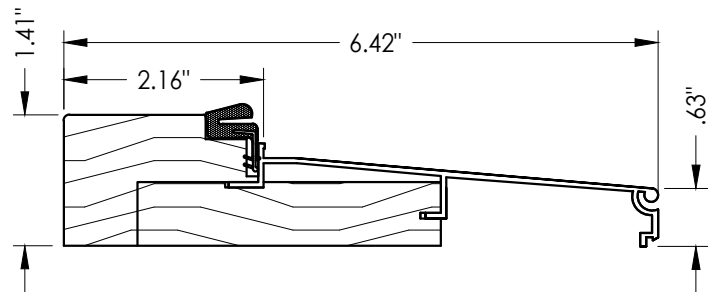
PRODUCT:		PART OR ASSEMBLY:	
BRANNEN MILLWORK WOOD DOOR		COMPONENTS	

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

BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.55)	WOOD	18	#8 X 2-1/2" WOOD SCREW (1.15" MIN. EMB. w/ 0.15" C'-SINK)	STEEL
B	2X BUCK (SG >= 0.55)	WOOD	20	10d FINISH NAIL 3" (1.5" MIN. EMBEDMENT)	STEEL
C	1/4" MAX. SHIM SPACE	WOOD	21	#10 X 2-1/2" PFH SMS	STEEL
D	1/4" X 2-3/4" PFH DeWALT CONCRETE SCREW	STEEL	22	4-1/2" HINGE	BRASS
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	23	#12 X 1-1/4" PFH SMS	STEEL
			24	#12 X 2" PFH SMS	STEEL
F	3/16" X 3-1/4" ITW PFH CONCRETE SCREW	STEEL	25	WEATHERSTRIP	FOAM
G	3/16" X 1-3/4" ITW PFH CONCRETE SCREW	STEEL	27	#10 X 3" PFH WS	STEEL
I	1/4" X 2-3/4" ITW PFH CONCRETE SCREW	STEEL	31	HOPPE HLS9000 MULTI POINT LOCK	STEEL
J	1/4" X 3-3/4" ITW PFH CONCRETE SCREW	STEEL	32	LOCK STRIKE PLATE (0.100" THK.)	BRASS
K	3/16" X 2-1/4" DeWALT PFH CONCRETE SCREW	STEEL	33	#8 X 5/8" PFH SMS	STEEL
1	LATCH STILE FOR GLASS (SG >= 0.54)	WOOD	35	1.0" SOLID POPLAR STIFFNER	WOOD
2	LATCH STILE FOR PANEL INFIL (SG >= 0.54)	WOOD	36	BRAD NAIL STOP F-18 1/2" GALV.	STEEL
3	HINGE STILE FOR GLASS (SG >= 0.54)	WOOD	37	CORNER ROUND	WOOD
4	HINGE STILE FOR PANEL INFIL (SG >= 0.54)	WOOD	45	STRIKE PLATE @ HEAD & SILL	SS
5	WOOD STILE AND RAIL DOOR	WOOD	46	REINFORCEMENT PLATE	ST. STEEL
6	LOWER MID RAIL (SG>= 0.54)	WOOD	47	#8 X 1-1/2" SFH SMS	ST. STEEL
7	TOP RAIL (SG >= 0.54)	WOOD	50	GLAZING SPACER (DESICCANT FILLED)	ST. STEEL
8	UPPER MID RAIL/STILE (SG >= 0.54)	WOOD	51	GLAZING COMPOUND DOW #1199	SILICONE
9	BOTTOM RAIL (SG >= 0.54)	WOOD	63	INSWING SADDLE THRESHOLD	OAK/ALUM
10	GLASS & PANEL INFIL STOP (SG >= 0.54)	WOOD	65	3/16" X 2-1/4" DeWALT PFH CONCRETE SCREW	STEEL
11	PANEL INFIL (SG >= 0.54)	LVL/WOOD	66	OUTSWING HIGH DAM THRESHOLD	OAK/ALUM
12	.074" X 1-1/2" BRAD NAIL	STEEL	71	#6 X 1-1/2" PFH SMS	STEEL
13	3/8"Ø X 2-3/4" DOWEL	WOOD	81	LATCH STILE FOR GLASS (SG >= 0.54)	WOOD
14	SEALANT	SILICONE	82	LATCH STILE FOR PANEL INFIL (SG >= 0.54)	WOOD
15	JAMB	WOOD	83	HINGE STILE FOR GLASS (SG >= 0.54)	WOOD
16	SIDELITE PANEL	-	84	HINGE STILE FOR PANEL INFIL (SG >= 0.54)	WOOD
			87	TOP RAIL (SG >= 0.54)	WOOD
			88	MID RAIL (SG >= 0.54)	WOOD
			89	BOTTOM RAIL (SG >= 0.54)	WOOD

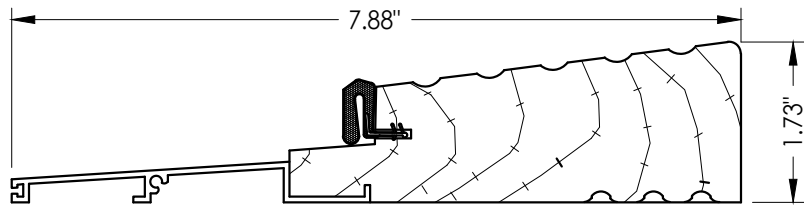
1.41"

6.42"



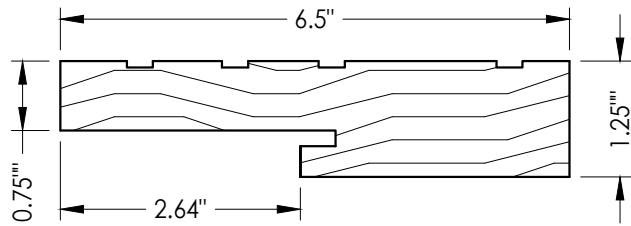
63 **INSWING SADDLE THRESHOLD**

By Brannen Millworks

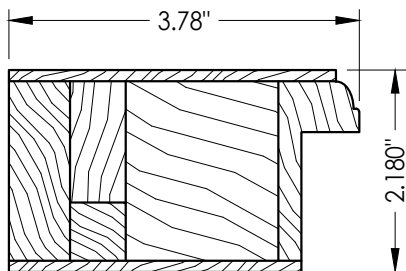


31 OUTSWING HIGH DAM THRESHOLD

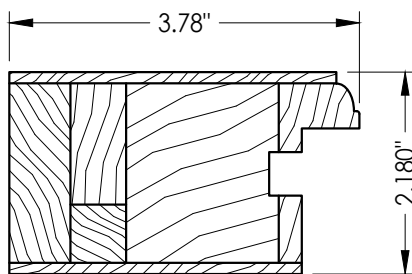
By Brannen Millworks



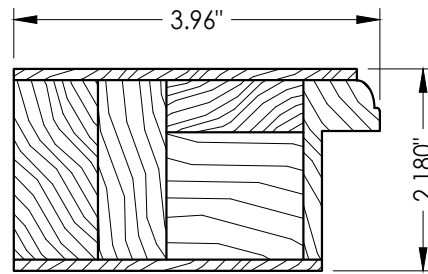
15 HEAD & SIDE JAMB



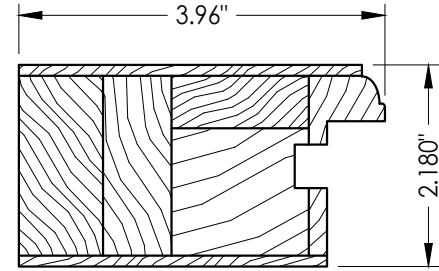
81 **LATCH STILE**
For glass infil



82 LATCH STILE
For panel infil



83 **HINGE STILE**
For glass infil



84 **HINGE STILE**
For panel infil

[illegible]