



STEVES AND SONS
203 Humble Ave.
San Antonio, TX 78225

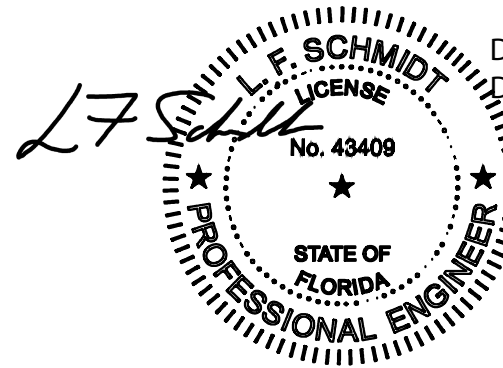
GLAZED FIBERGLASS DOOR INSWING / OUTSWING "NON-IMPACT"

GENERAL NOTES

1. This product anchoring drawing has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) excluding the "High Velocity Hurricane Zone" (HVHZ). See the Certification Agency Certificate for sizes, specifications & ratings.
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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
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

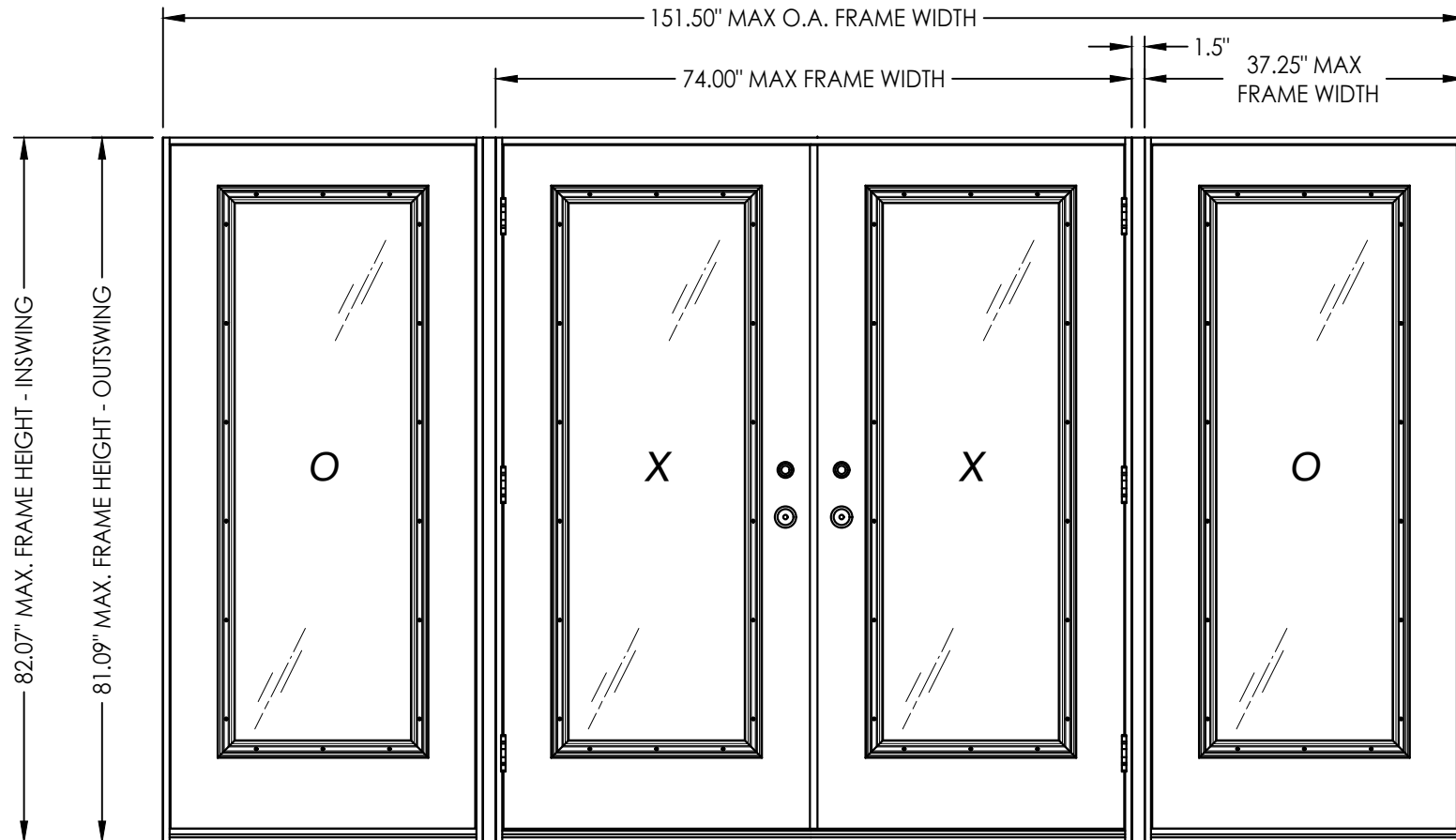
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details & glazing detail
3	Sidelite panel construction details & glazing detail
4	Horizontal cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Buck anchoring
8	Frame anchoring - 2X buck masonry construction
9	Frame anchoring - 1X buck masonry construction
10	Astragal details
11	Bill of materials & components



Digitally signed by Lyndon F Schmidt
Date: 2023.08.08 07:39:07 -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



SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	151.50" x 82.07"	G1	+47.0	-47.0
OUTSWING	151.50" x 81.09"		+47.0	-47.0

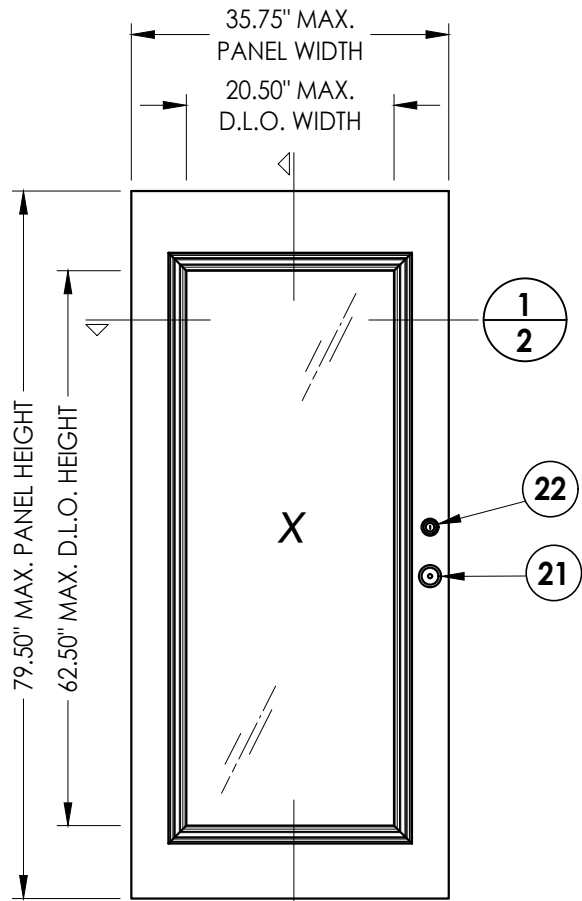
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

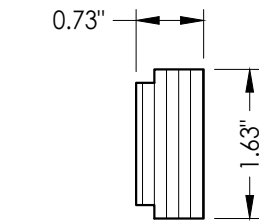
PRODUCT: STEVES AND SONS
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS			
		3	2	1	BY
	8/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS		
	9/16/20	UPDATE TO 7TH ED. (2020) FBC	LFS		
	10/08/17	UPDATE TO 6TH ED. (2017) FBC	JK		
DATE: 7/18/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-17901.15					
SHEET 1 OF 11					

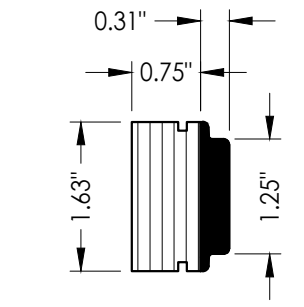
Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg



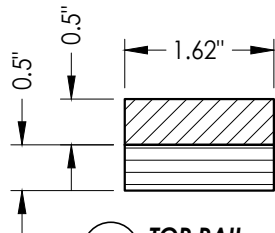
7 FIBERGLASS DOOR
Glazed



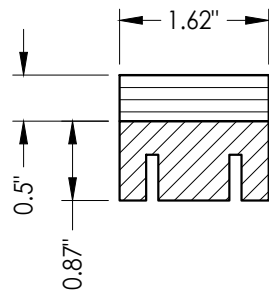
36 LITE OPENING STILE REINF.



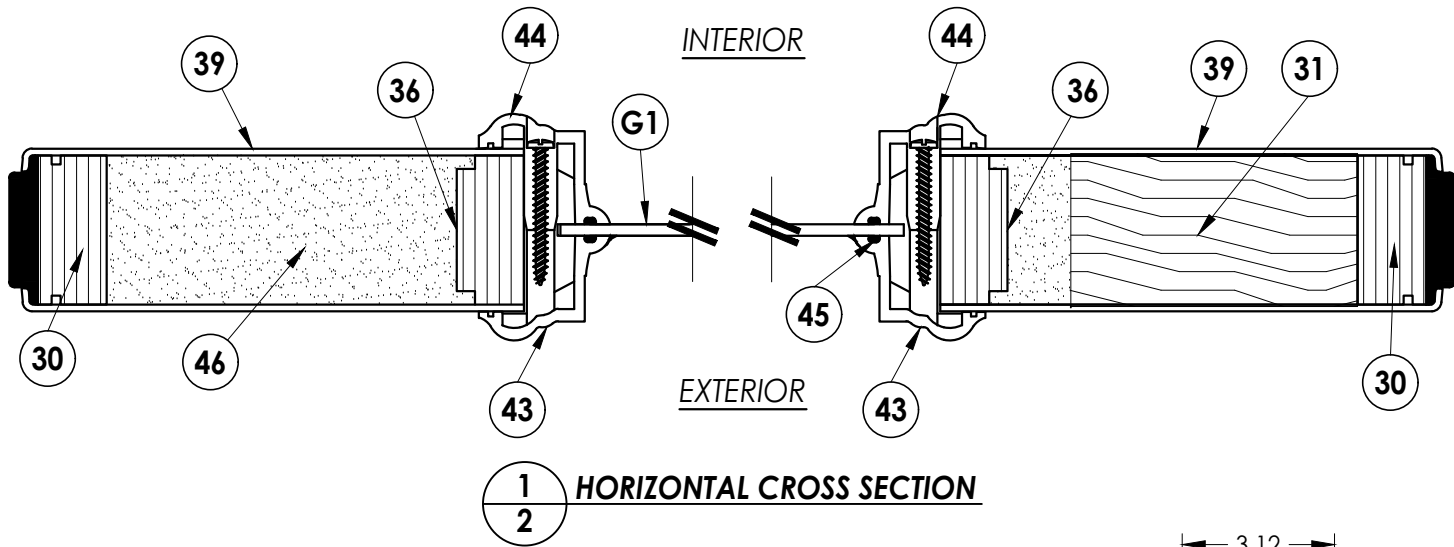
30 HINGE & LATCH STILE



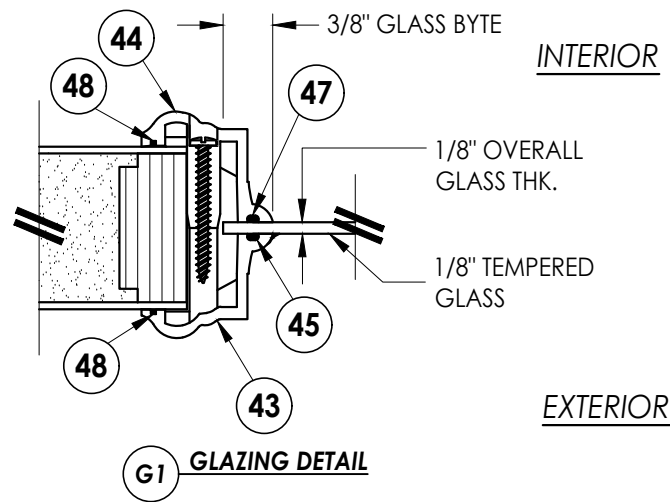
33 TOP RAIL



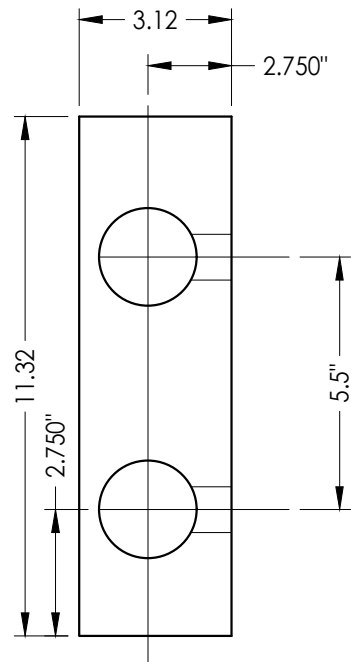
34 BOTTOM RAIL



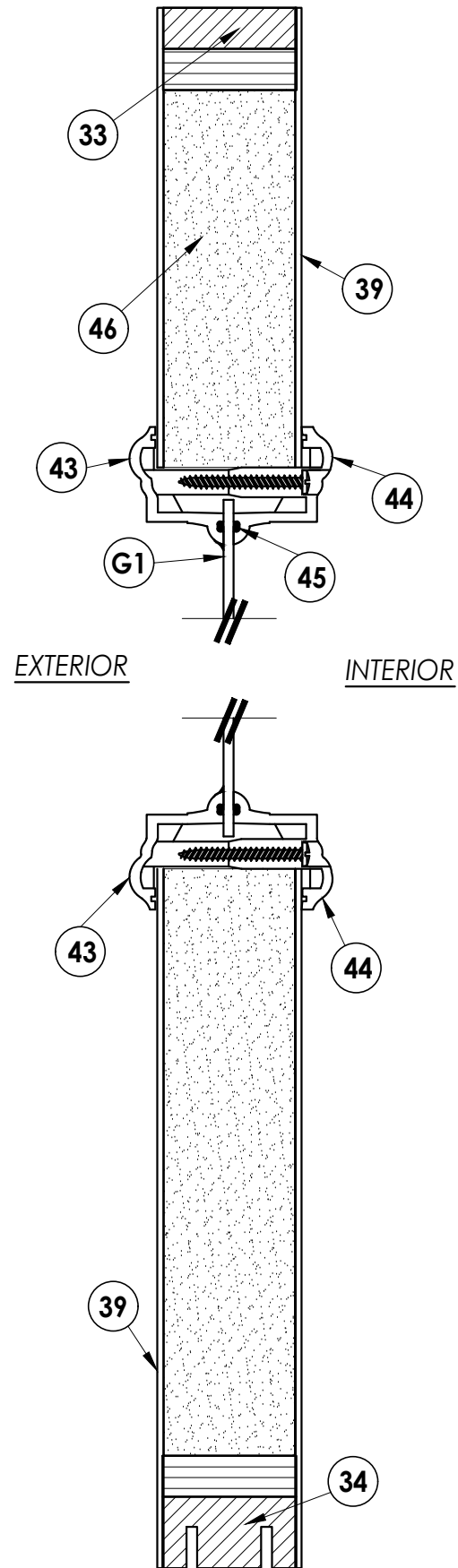
1 HORIZONTAL CROSS SECTION



G1 GLAZING DETAIL



31 LOCK BLOCK DETAIL
1.67" thick



2 VERTICAL CROSS SECTION

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

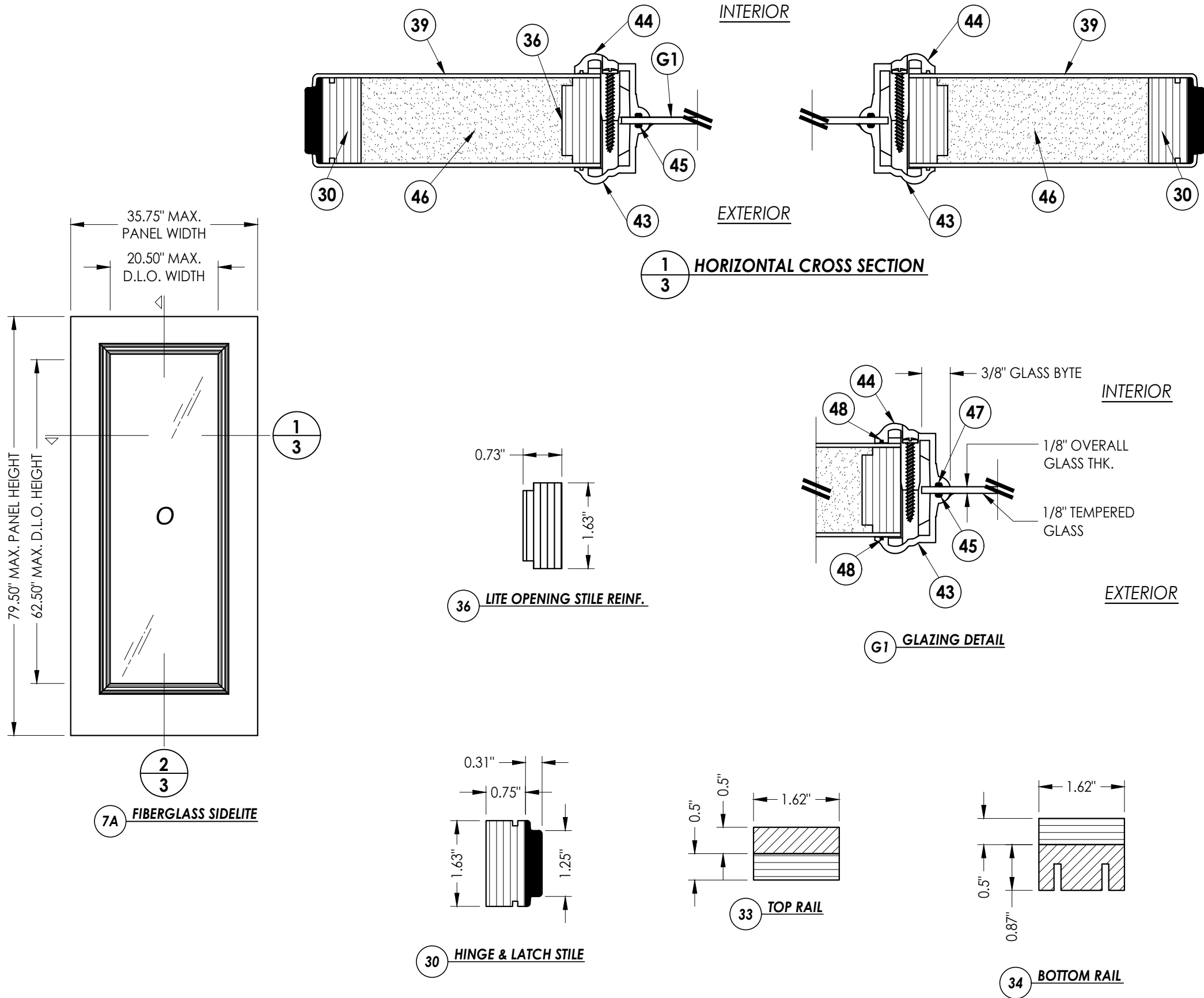
PRODUCT: STEVES AND SONS

PART OR ASSEMBLY:
DOOR PANEL CONSTRUCTION
DETAILS & GLAZING DETAIL

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

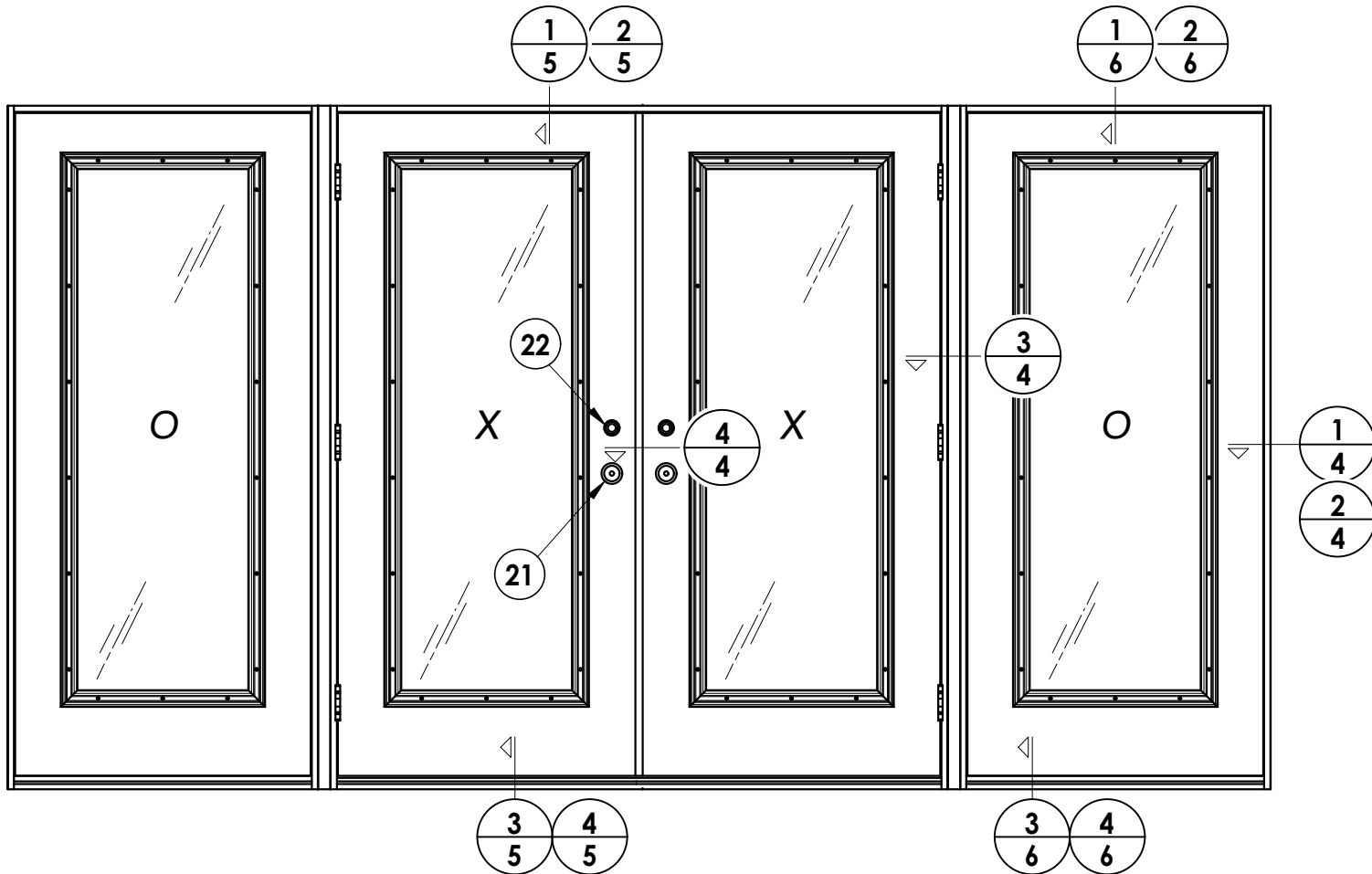
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17901.15
SHEET 2 OF 11

Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg



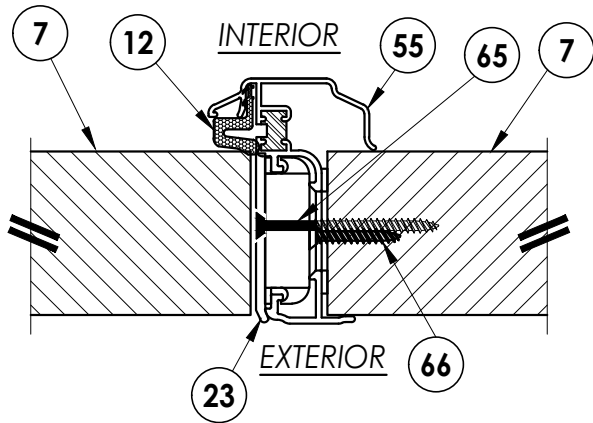
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: STEVES AND SONS		PART OR ASSEMBLY: SIDELITE PANEL CONSTRUCTION DETAILS & GLAZING DETAIL	
		LFS	BY
		FBC	JK
3	8/07/23	UPDATE TO 8TH ED. (2023)	DATE
2	9/16/20	UPDATE TO 7TH ED. (2020)	DATE
1	10/08/17	UPDATE TO 6TH ED. (2017)	DATE
REVISIONS			
DATE: 7/18/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-17901.15			
SHEET 3 OF 11			

Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg



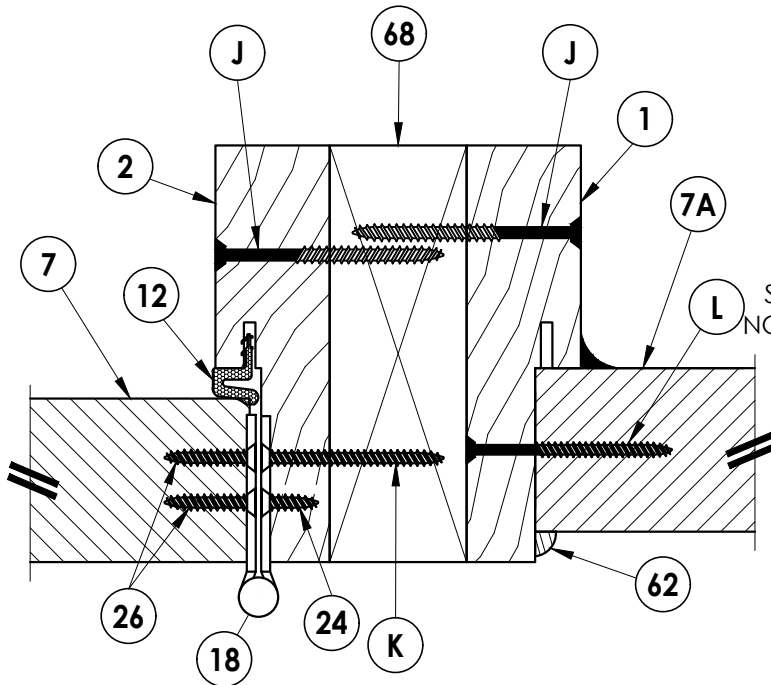
NOTE:

1. Sidelite ass'y fastener; 6" from each end and 6 more screws equally spaced between. (8 screws total per jamb.)



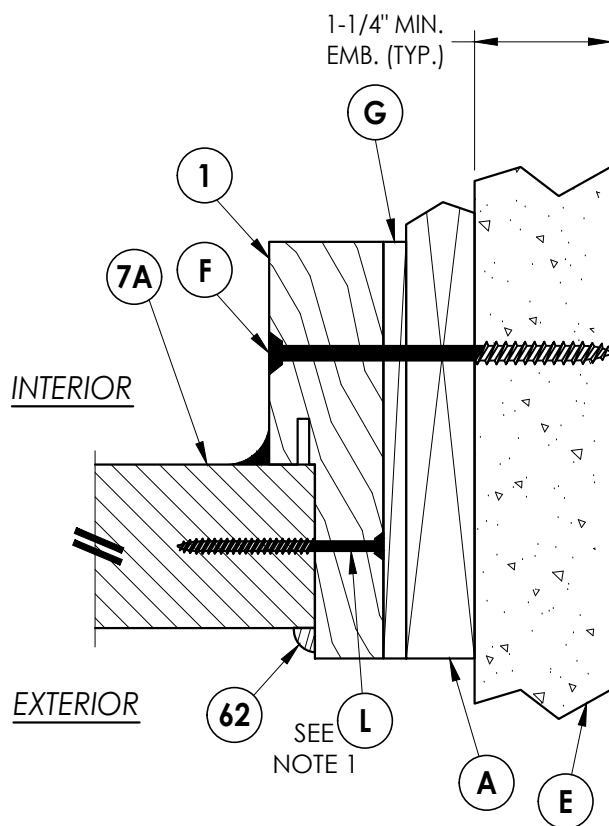
4 HORIZONTAL CROSS SECTION
4 Endura astragal

INTERIOR
EXTERIOR

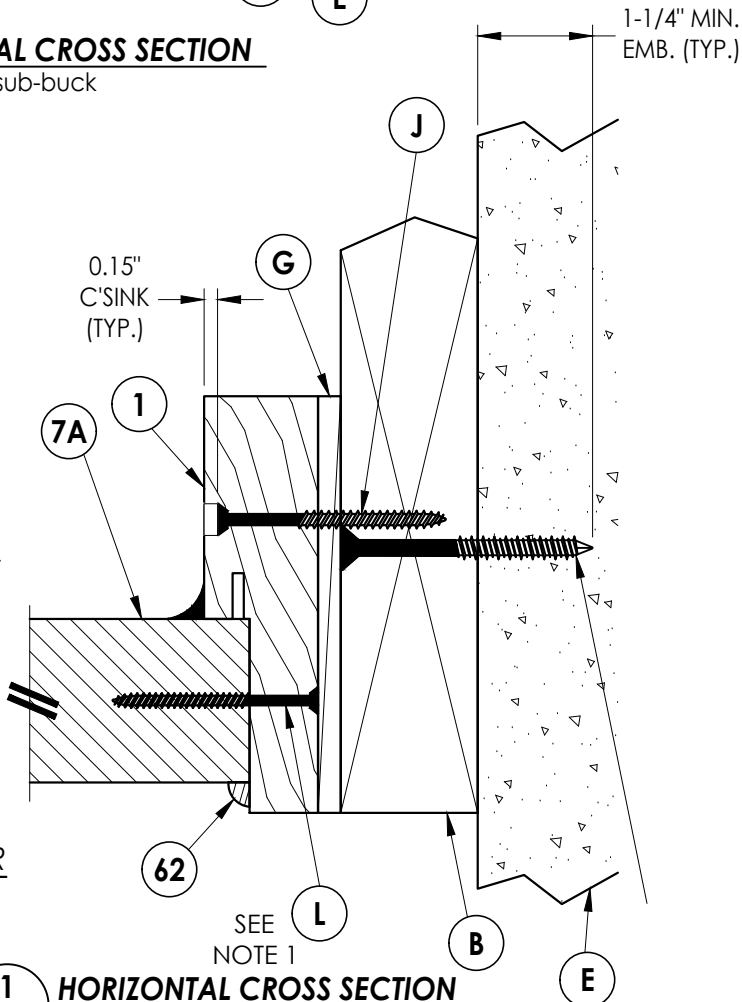


3 HORIZONTAL CROSS SECTION
4

INTERIOR
EXTERIOR



2 HORIZONTAL CROSS SECTION
4 Shown w/1X sub-buck



1 HORIZONTAL CROSS SECTION
4 Outswing shown - inswing also approved

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

PRODUCT: STEVES AND SONS

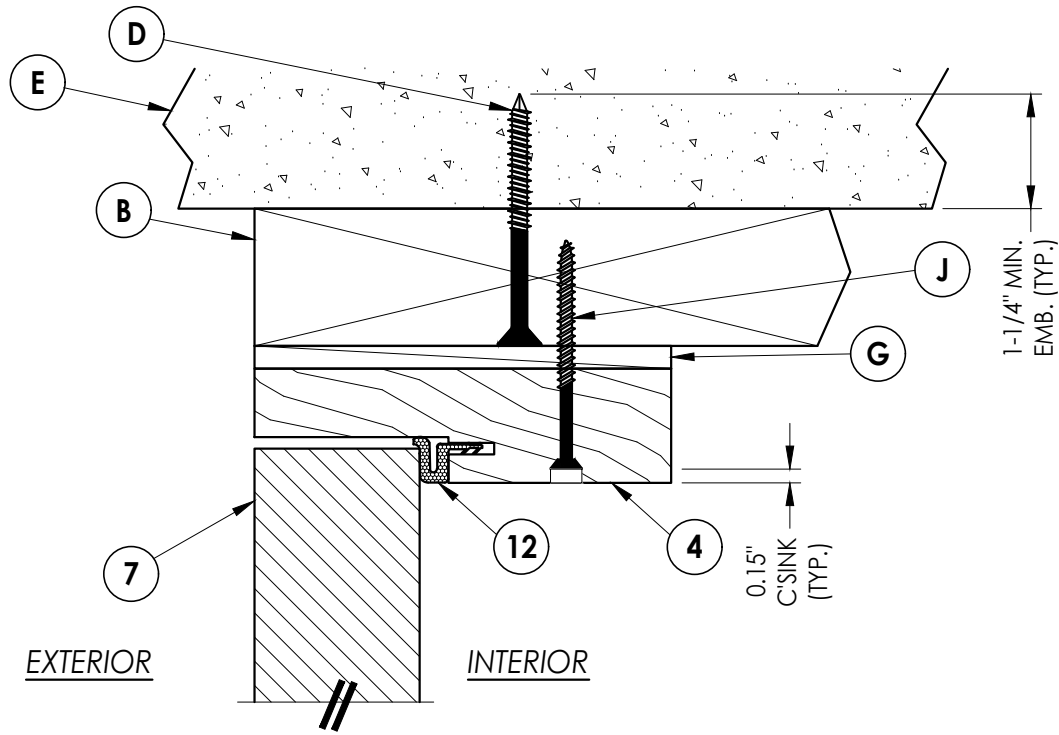
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

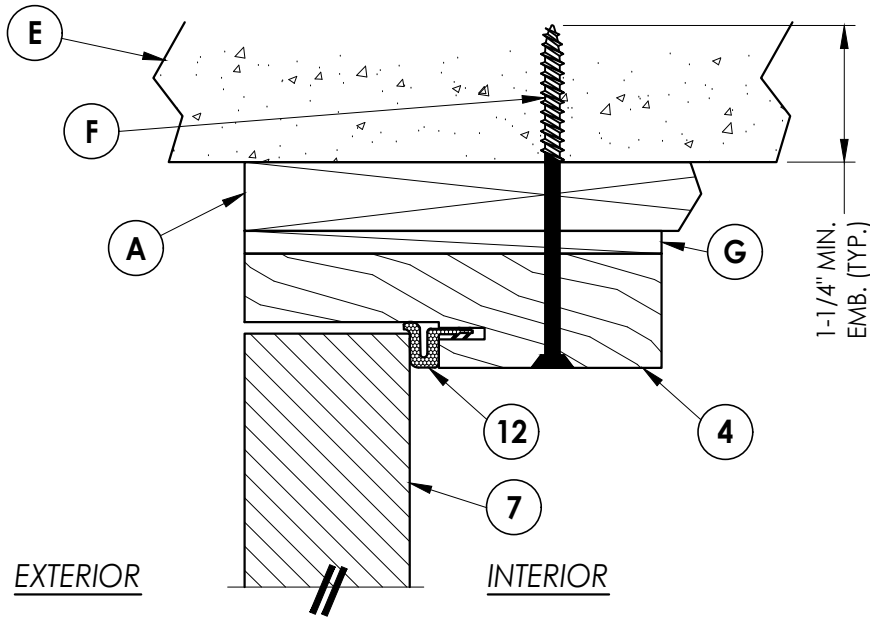
NO.	DATE	BY
3	8/07/23	LFS
2	9/16/20	LFS
1	10/08/17	JK

DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17901.15
SHEET 4 OF 11

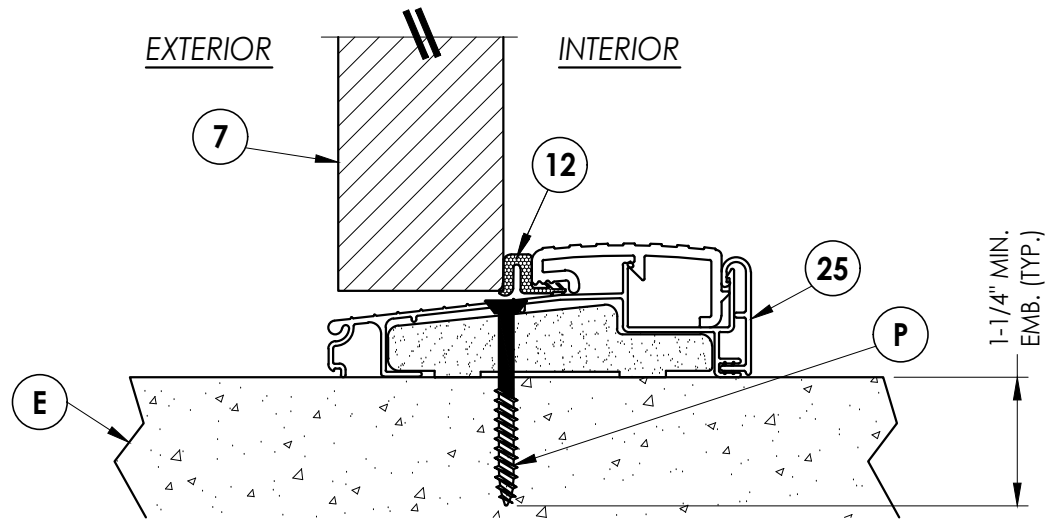
Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg



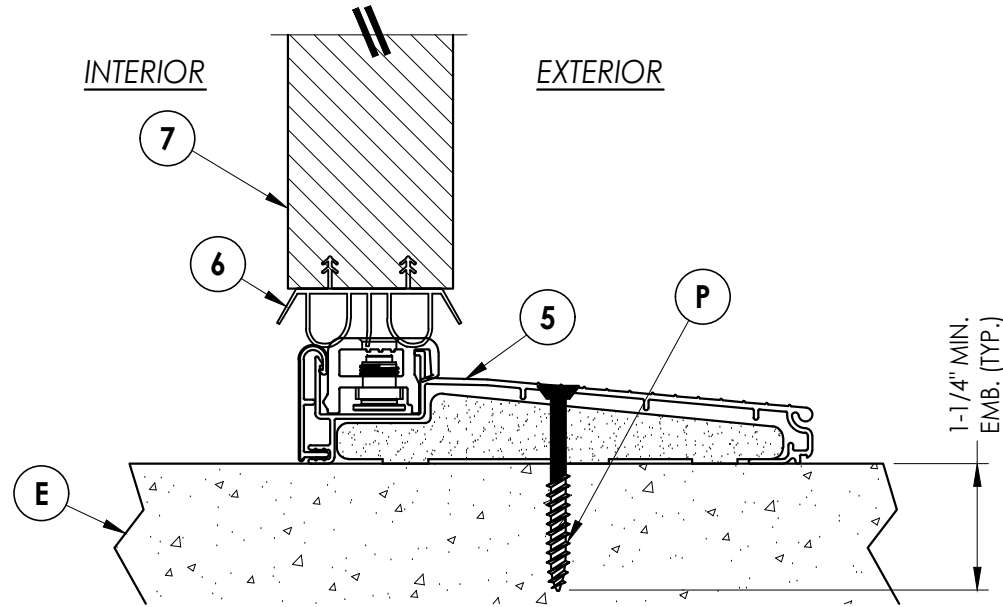
1
5 **VERTICAL CROSS SECTION**
Outswing shown - inswing
also approved



2
5 **VERTICAL CROSS SECTION**
Shown w/1X sub-buck



3
5 **VERTICAL CROSS SECTION**
Outswing sill



4
5 **VERTICAL CROSS SECTION**
Inswing sill

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: STEVES AND SONS

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

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

DATE: 7/18/15

SCALE: N.T.S.

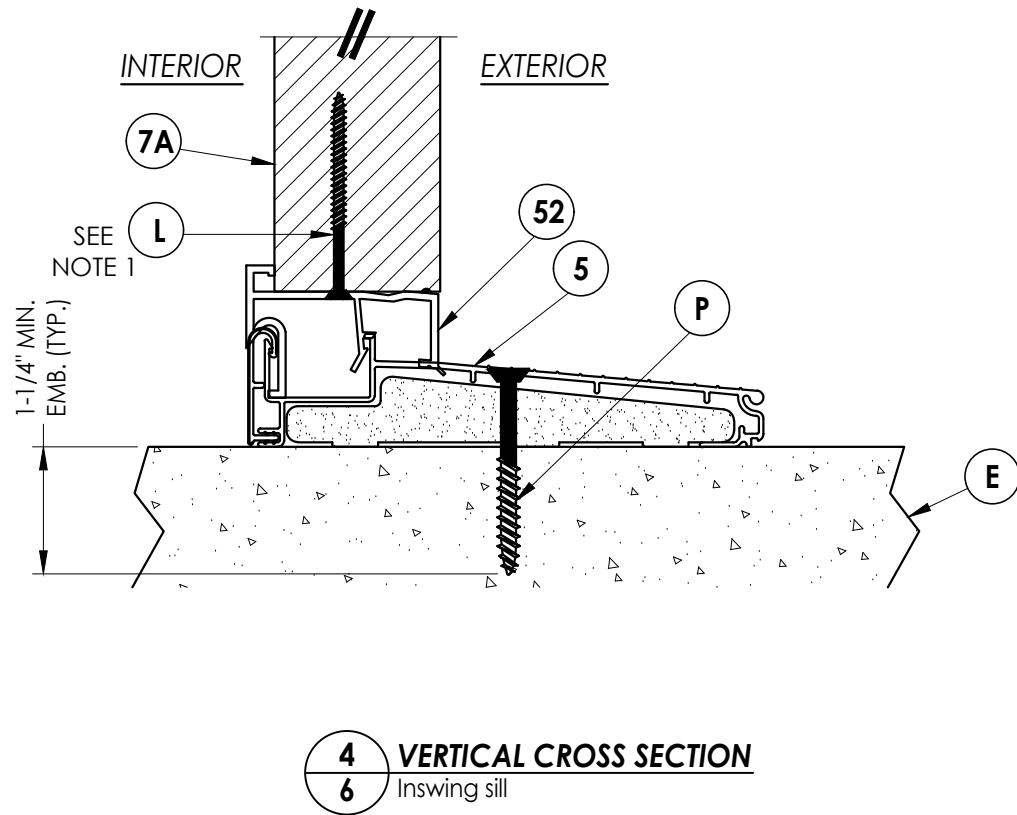
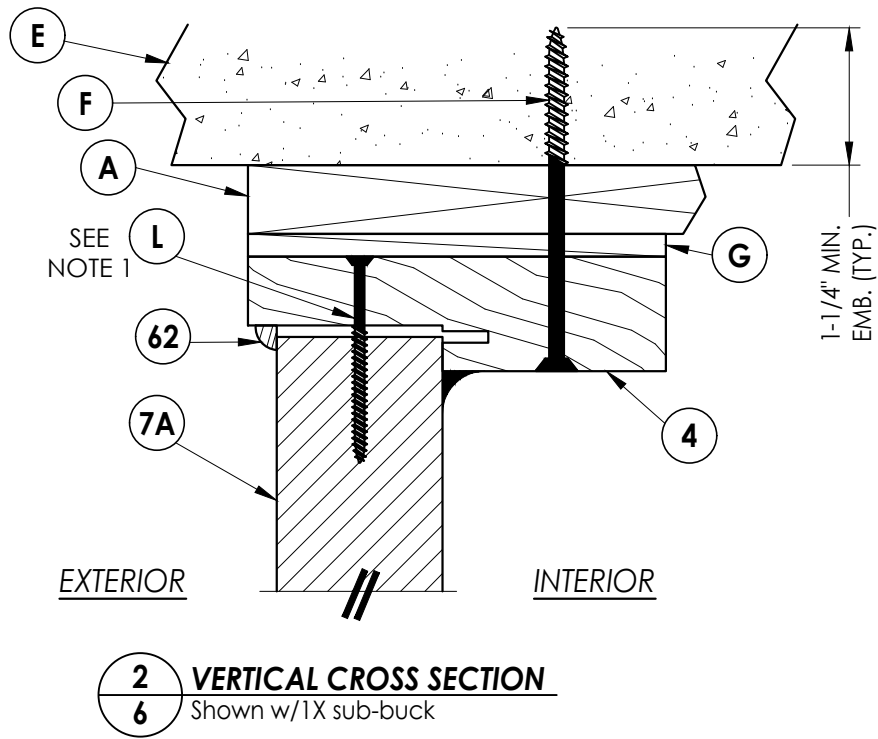
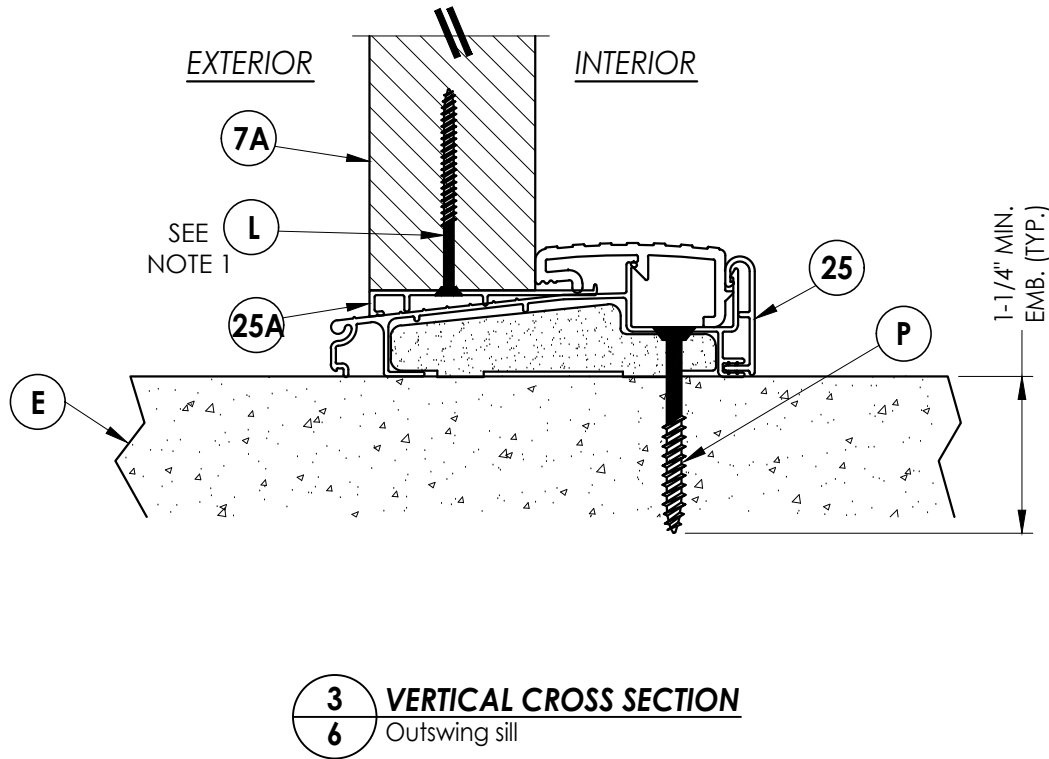
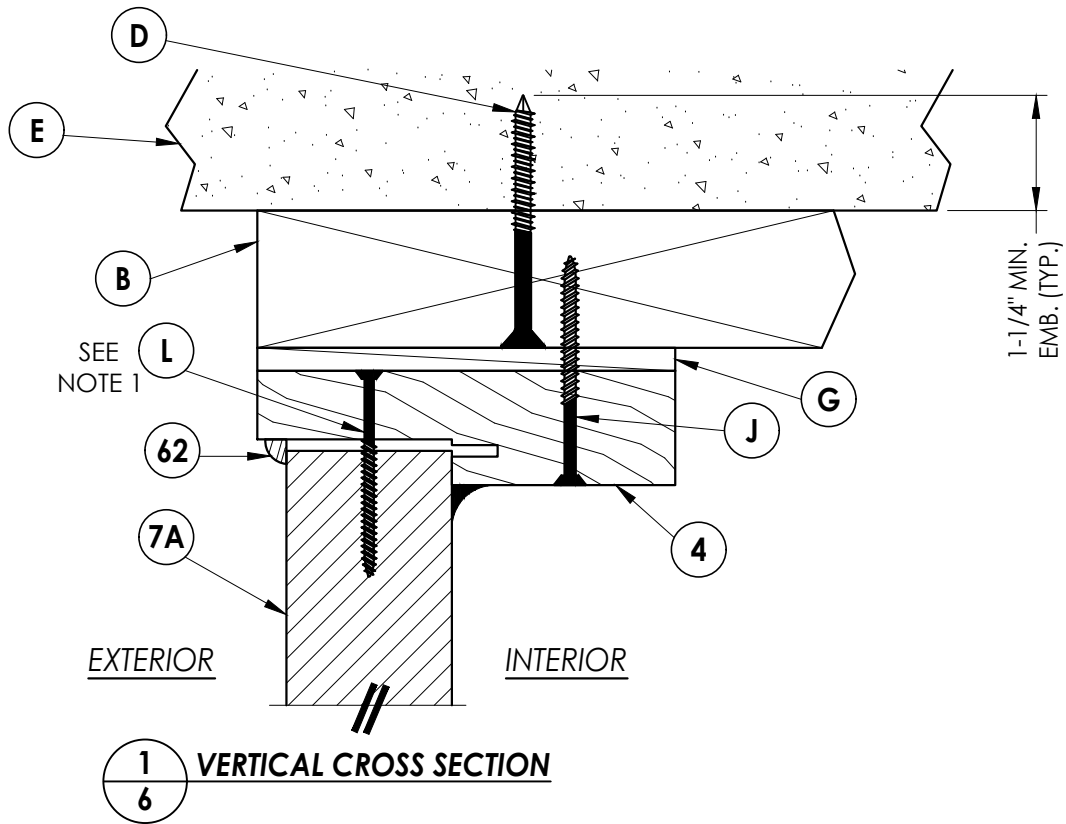
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17901.15

SHEET 5 OF 11

Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg



NOTE:
1. Screws thru head and sill jamb located 3" from each end and on centerline.

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: STEVES AND SONS

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

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

DATE: 7/18/15

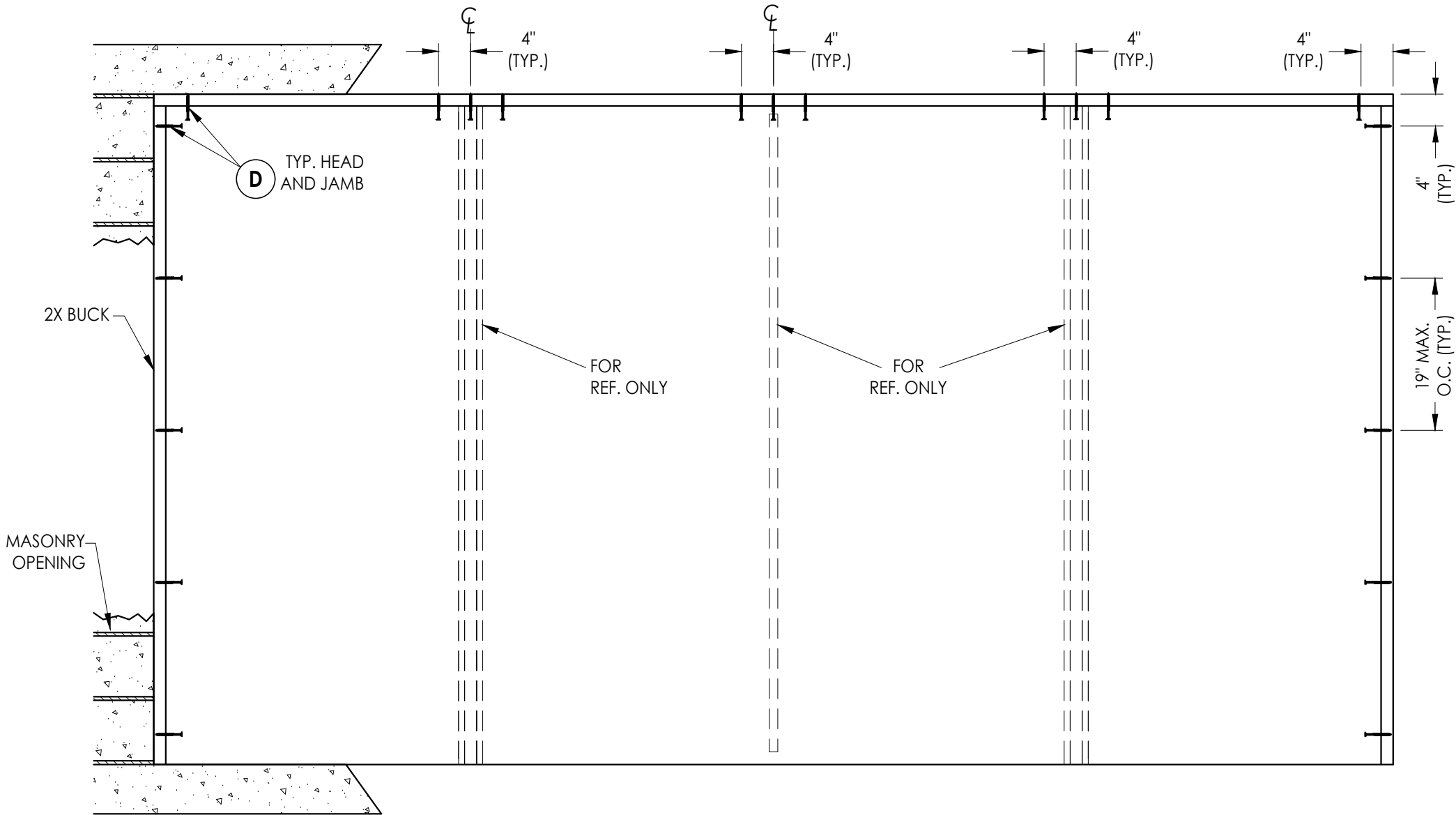
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17901.15

SHEET 6 OF 11



BUCK ANCHORING

DATE: 7/18/15	
SCALE: N.T.S.	
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.: FL-17901.15	
SHEET	7 OF 11

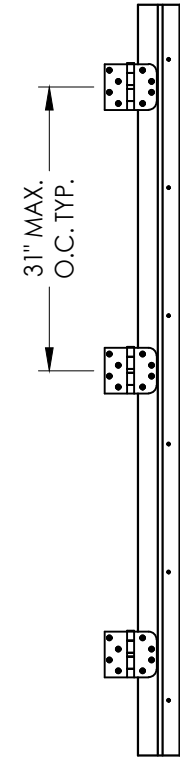
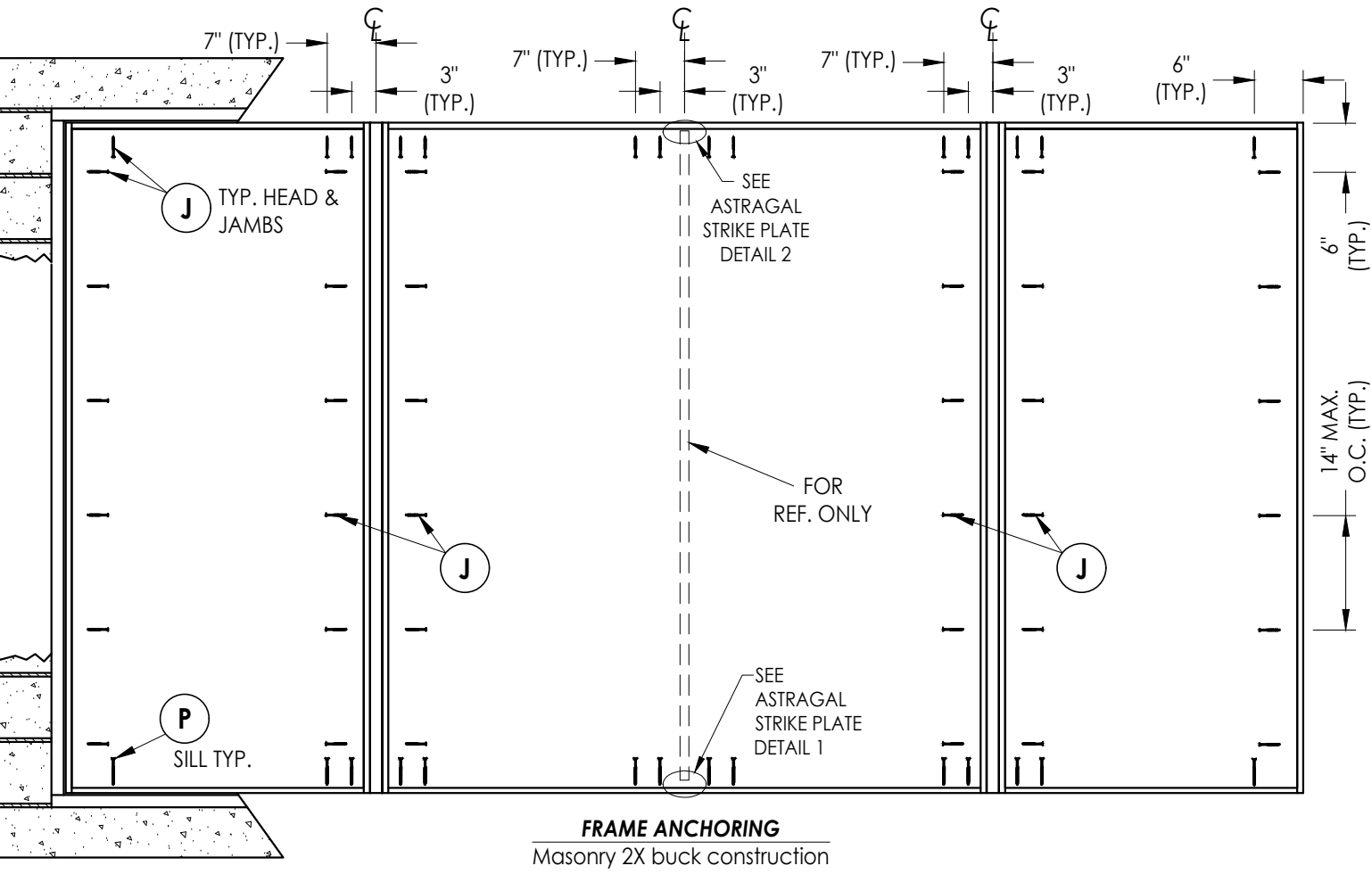
3	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
1	10/08/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
NO.	DATE			BY	
REVISIONS					

PRODUCT:	STEVES AND SONS
	PART OR ASSEMBLY: BUCK ANCHORING

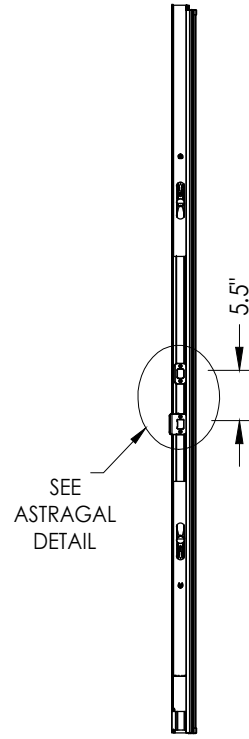
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW

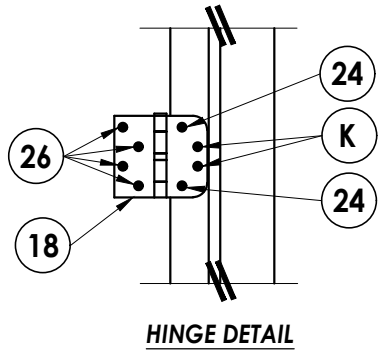
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



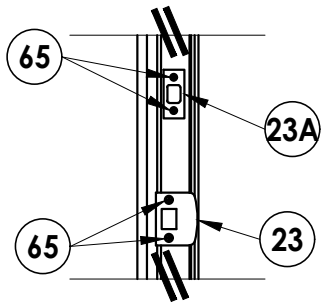
HINGE JAMB



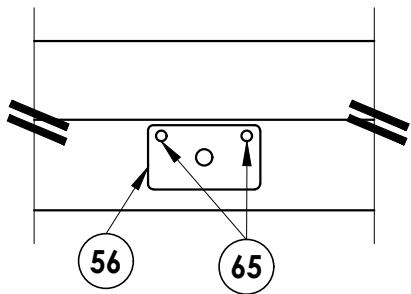
ASTRAGAL



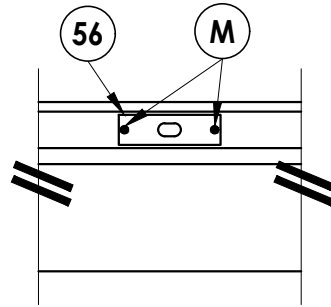
HINGE DETAIL



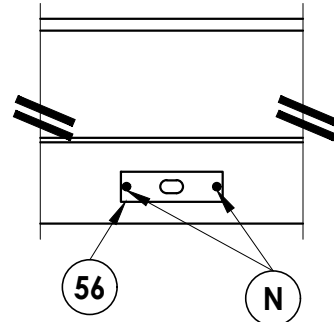
ASTRAGAL DETAIL



ASTRAGAL STRIKE PLATE
"DETAIL 2"



ASTRAGAL STRIKE PLATE
"DETAIL 1" - INSWING



ASTRAGAL STRIKE PLATE
"DETAIL 1" - OUTSWING

[illegible]

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

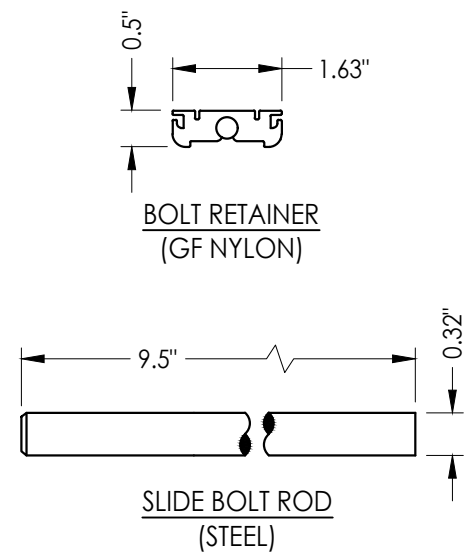
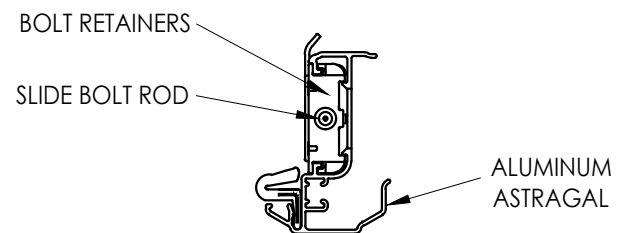
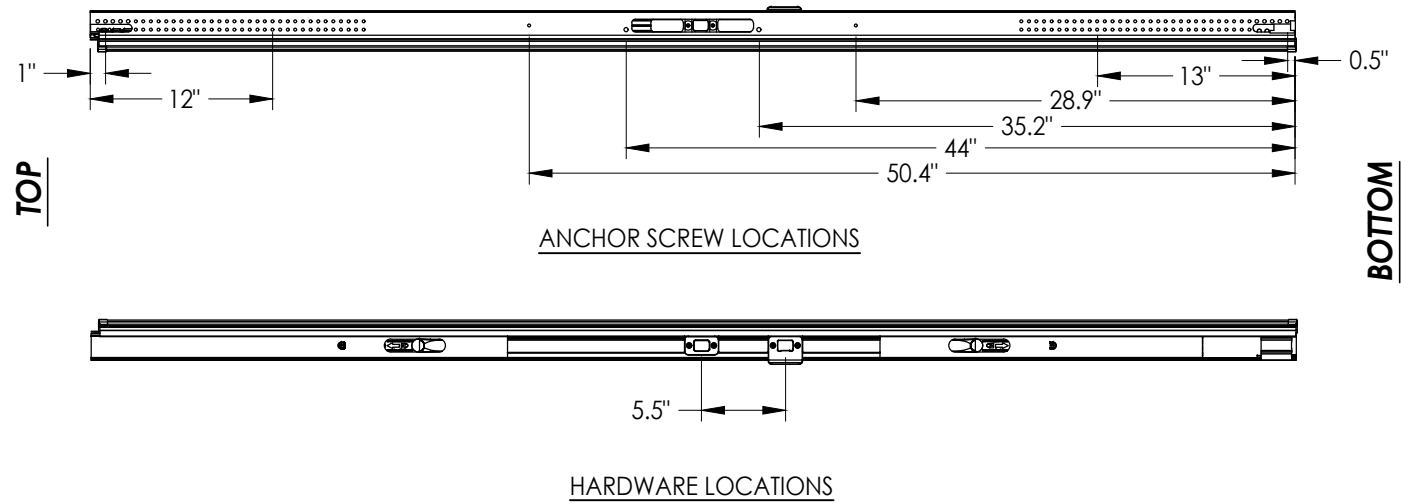
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

© 2015 R.W. BUILDING CONSULTANTS INC.

Technical drawing of a component with the following dimensions:

- Width: 1.75"
- Height: 2.65"
- Wall Thickness: 0.063"

ASTRAGAL SECTION



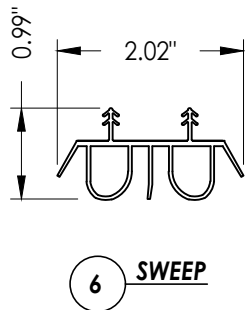
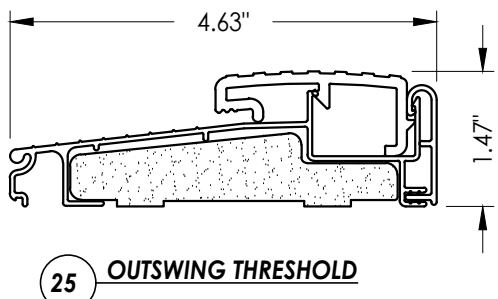
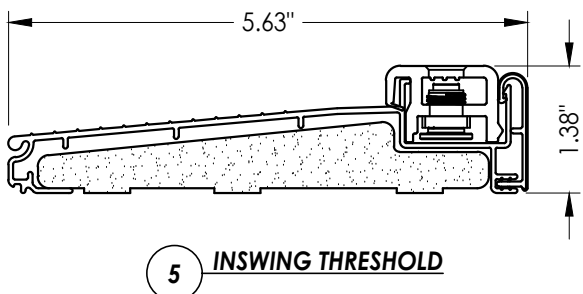
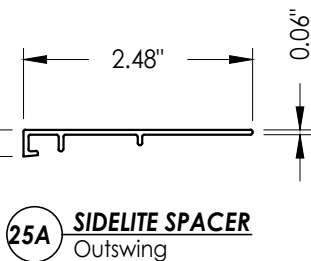
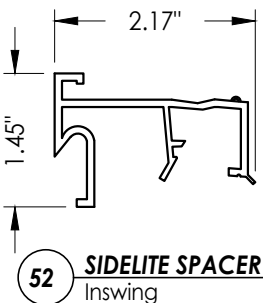
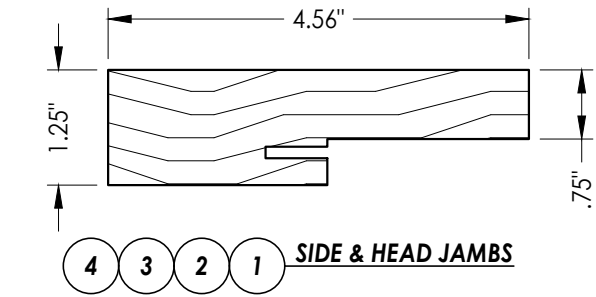
3	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
2	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS		
1	10/08/17	UPDATE TO 6TH ED. (2017)	FBC	JK		
NO.	DATE					
				REVISIONS		
DATE: 7/18/15						
SCALE: N.T.S.						
DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-17901.15						
SHEET 10 OF 11						

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

Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg

BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD	24	#9 X 5/8" PFH WS	STEEL
B	2X BUCK SG >= 0.55	WOOD	25	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
D	1/4" X 2-3/4" DeWALT PFH CONCRETE SCREW	STEEL	25A	SIDELITE SPACER -OUTSWING	PVC
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	26	#9 X 1" PFH WS	STEEL
			30	LATCH AND HINGE STILE - SG >= 0.42	LVL/PVC
F	1/4" X 3-3/4" ITW PFH CONCRETE SCREW	STEEL	31	LOCK BLOCK	WOOD
G	MAX. 1/4" SHIM SPACE	-	33	TOP RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
I	3/16" X 3-3/4" ITW PFH CONCRETE SCREW	STEEL	34	BOTTOM RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
J	#10 X 2-1/2" PFH WS (1-1/8" MIN. EMBEDMENT)	STEEL	36	LITE OPENING STILE REINF. (SG>= 0.42)	WOOD
K	#9 X 2" PFH WS	STEEL	39	FIBERGLASS SKIN 0.079" MIN. THICKNESS (Fy = 5,200 PSI MIN.)	FIBERGLASS
L	#8 X 2-1/2" PFH WS	STEEL	40	#8 X 1-1/2" PANHEAD SMS (LIGHT FRAME SCREW)	STEEL
M	#3/16 X 3-1/4" ITW PFH CONCRETE SCREW	STEEL	43	FEMALE LITE FRAME	PC/ASA
N	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	44	MALE LITE FRAME	PC/ASA
P	1/4" X 2-1/4" ITW PFH CONCRETE SCREW	STEEL	45	HOT MELT SEALANT	BUTYL
1	SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	46	INSULATED FOAM CORE	POLYURETHANE
2	STRIKE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	47	SILICONE SEALANT	SILICONE
3	HINGE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	48	PL PREMIUM POLYURETHANE ADHESIVE	POLYURETHANE
4	HEAD - FINGER-JOINT PINE - SG >= 0.42	WOOD	50	ASTRAGAL SLIDE BOLT ROD	STEEL
5	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM/COMP.	55	ULTIMATE HURRICANE ASTRAGAL (ENDURA)	ALUMINUM
6	DOOR BOTTOM SWEEP	PVC	56	ASTRAGAL STRIKE PLATE	STEEL
7	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-	57	#8 X 3" ASTRAGAL SCREW (BY ENDURA)	STEEL
7A	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-	62	QUARTER ROUND	WOOD
12	WEATHER STRIP QEBD650 Q-LON	-	65	#8 X 2-1/4" PFH WOOD SCREW	STEEL
18	4" HINGE	STEEL	66	#8 X 1" PFH WOOD SCREW	STEEL
21	KWIKSET LOCK -SERIES 200 PASSAGE	STEEL	68	2X MULLION REINFORCEMENT - SG>= 0.42	WOOD
22	KWIKSET DEADBOLT -SERIES 600	STEEL			
23	STRIKE PLATE	STEEL			
23A	DEADBOLT STRIKE	STEEL			



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

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

RW

PRODUCT: STEVES AND SONS

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

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

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17901.15

SHEET 11 OF 11