



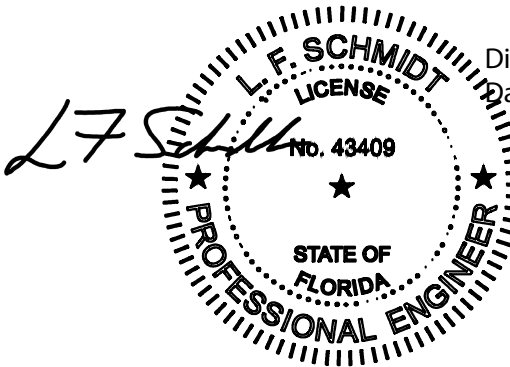
STEVE'S AND SONS
203 Humble Ave.
San Antonio, TX 78225

GLAZED FIBERGLASS DOOR
IN swing / OUT swing
"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.

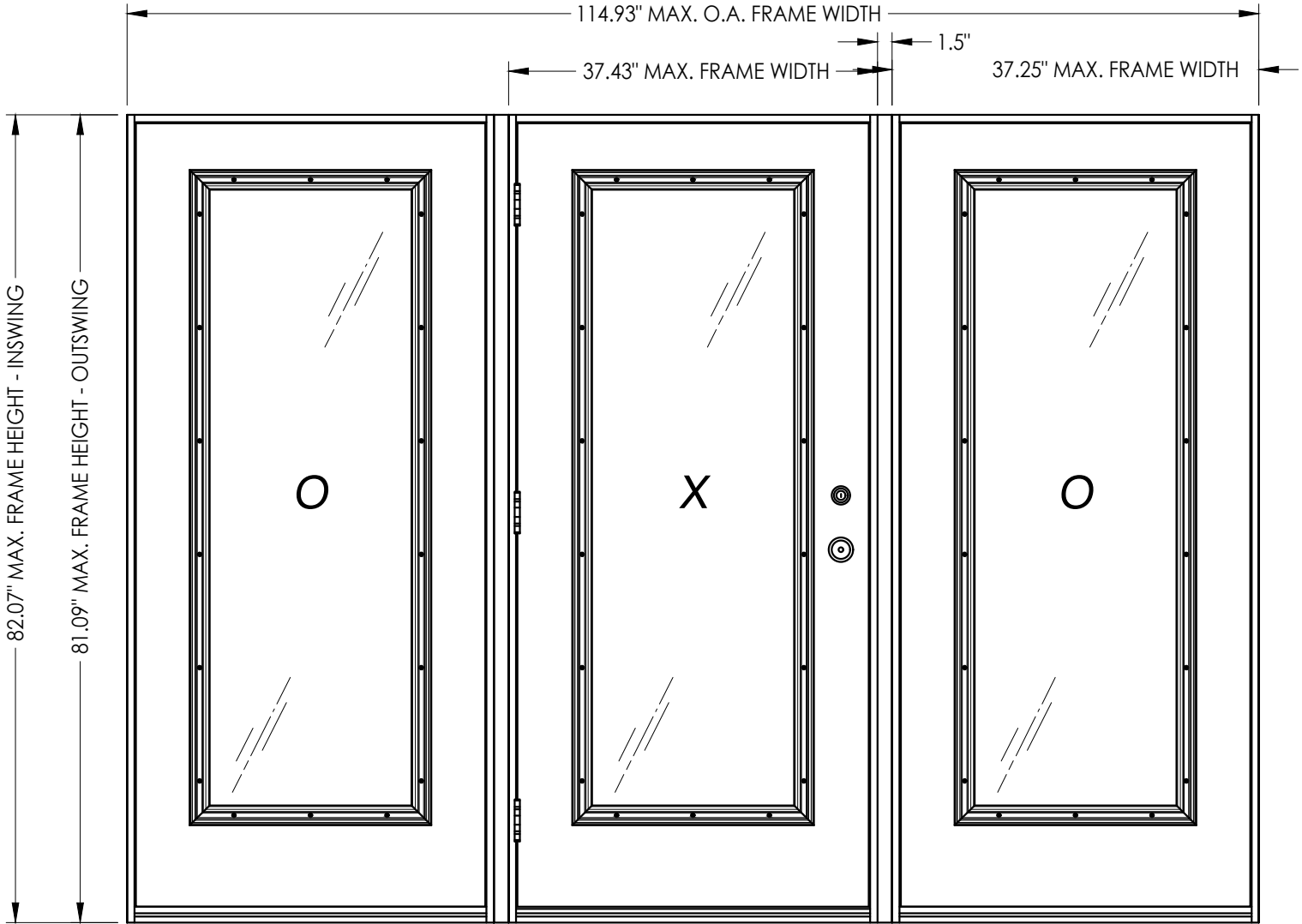
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details & glazing detail
3	Sidelite panel construction details & glazing detail
4	Horizontal cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Buck and frame anchoring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



Digitally signed by Lyndon F Schmidt
Date: 2023.08.08 07:39:38 -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
IN swing	114.93" x 82.07"	G1	+47.0	-47.0
OUT swing	114.93" x 81.09"		+47.0	-47.0

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

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

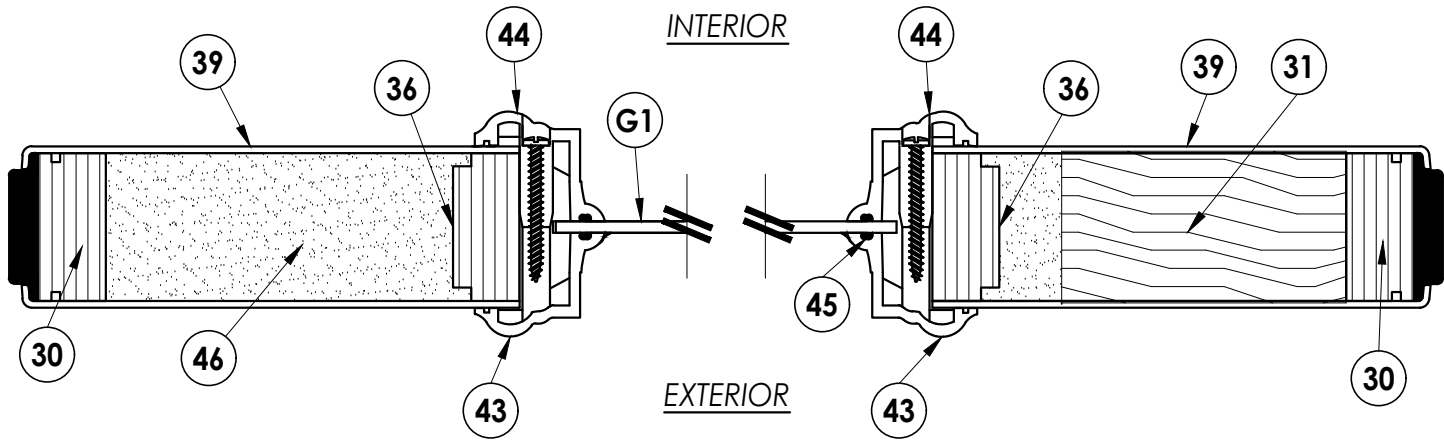
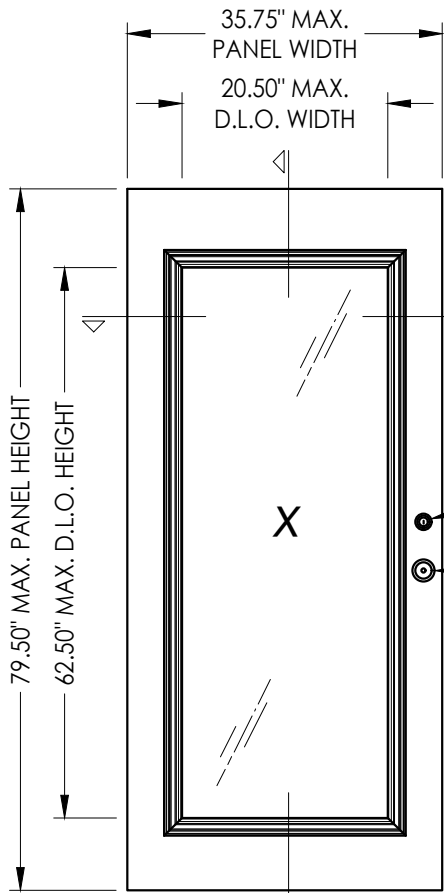
PRODUCT: STEVE'S AND SONS

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

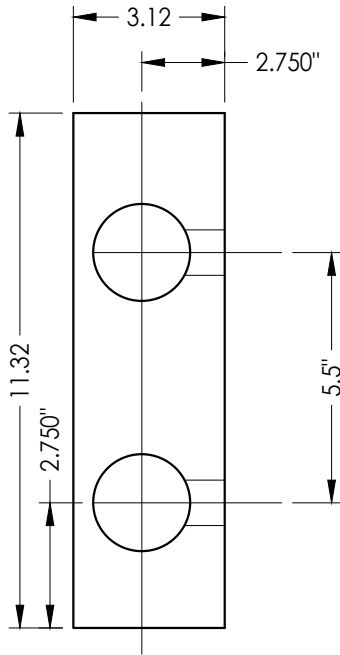
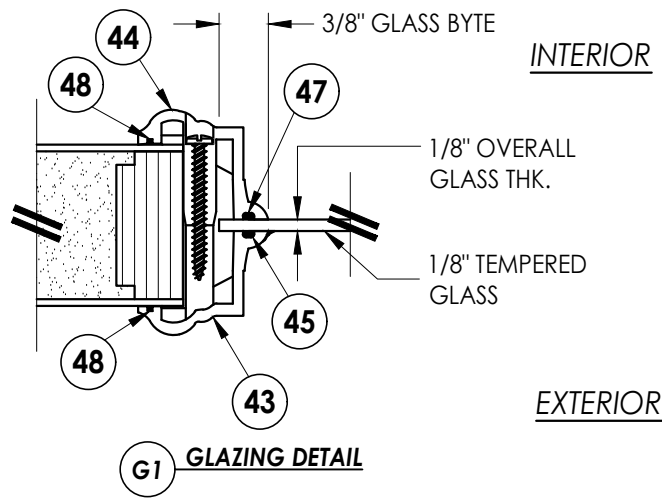
NO.	DATE	REVISIONS		
3	8/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS	
2	9/16/20	UPDATE TO 7TH ED. (2020) FBC	LFS	
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC	JK	

DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17901.13
SHEET 1 OF 9

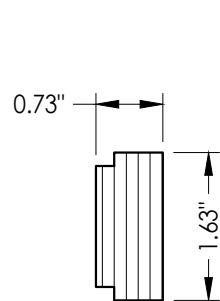
Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg



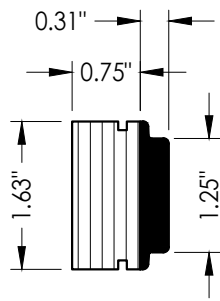
1
2 HORIZONTAL CROSS SECTION



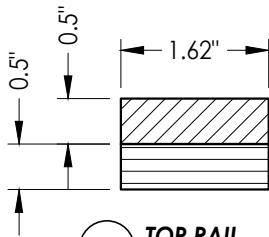
31 LOCK BLOCK DETAIL
1.67" thick



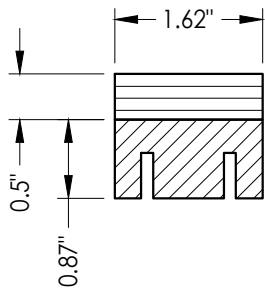
36 LITE OPENING STILE REINF.



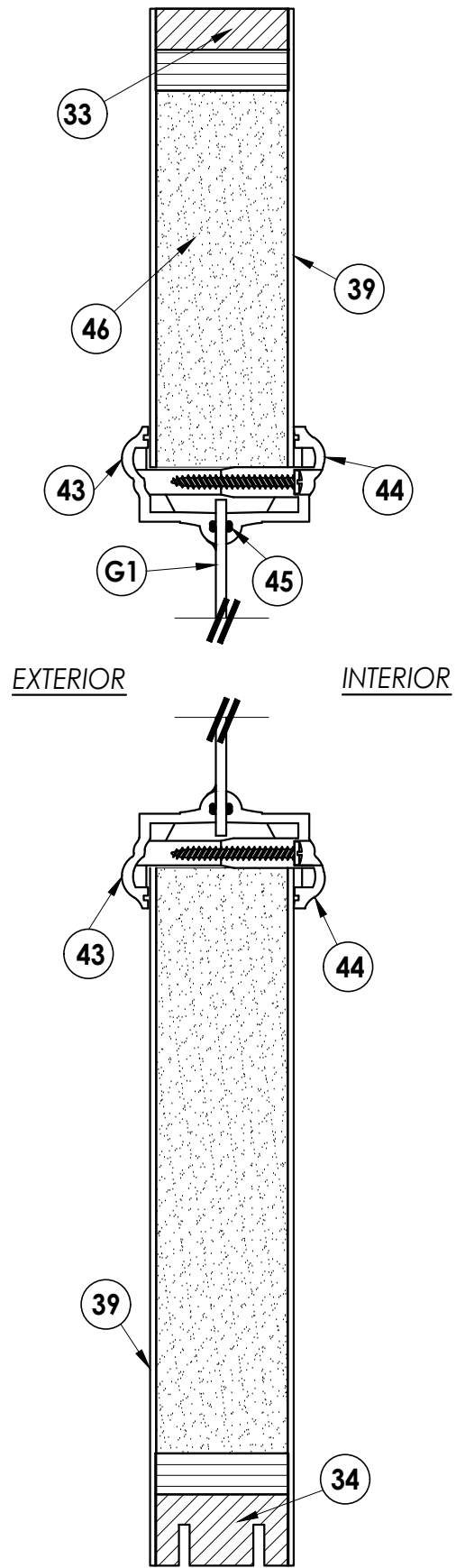
30 HINGE & LATCH STILE



33 TOP RAIL



34 BOTTOM RAIL



2
2 VERTICAL CROSS SECTION

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:
DOOR PANEL CONSTRUCTION
DETAILS

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.

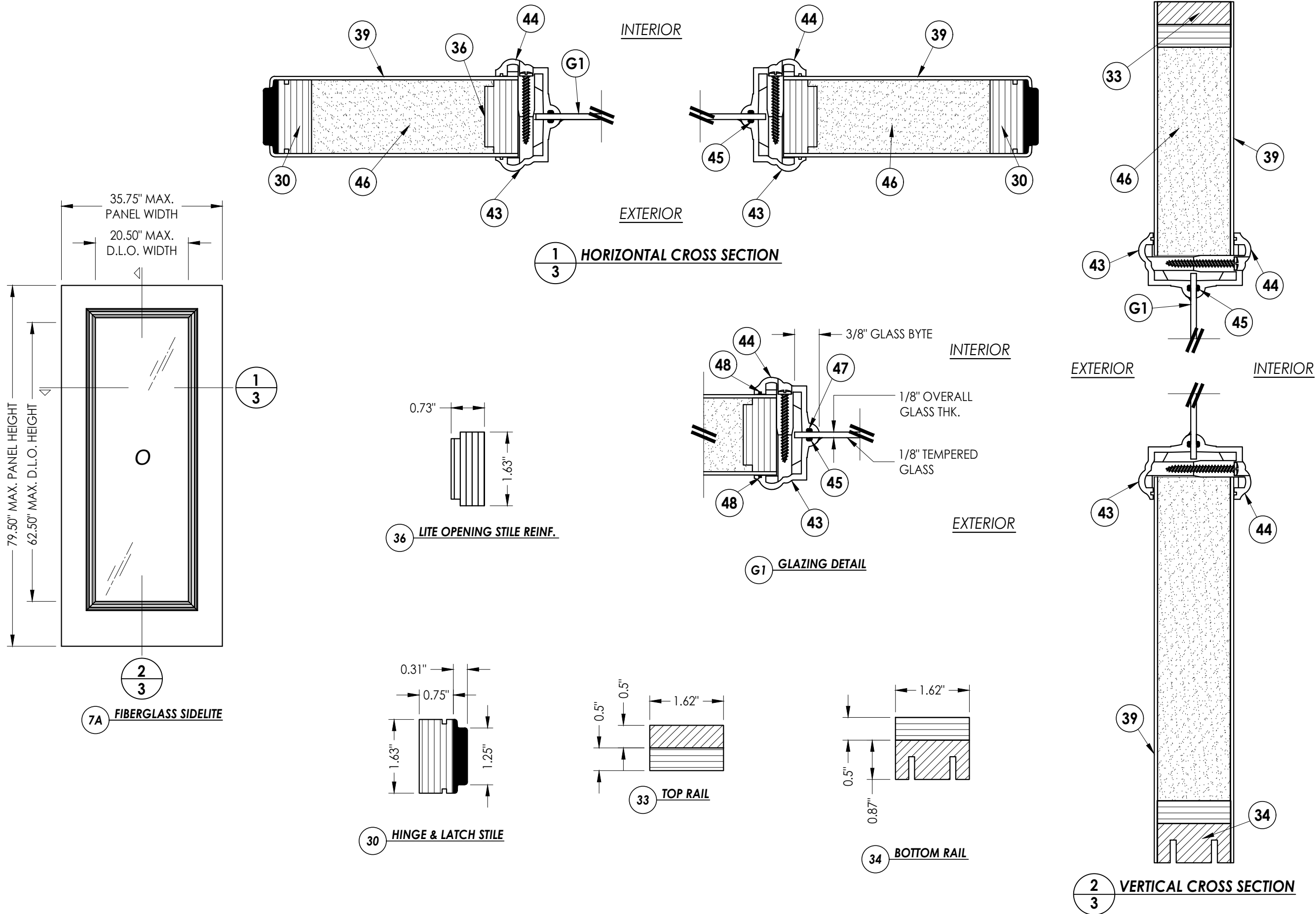
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17901.13

SHEET 2 OF 9

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



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

STEVES AND SONS

SIDELITE PANEL
CONSTRUCTION DETAILS

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17901.13

SHEET 3 OF 9

REVISIONS

3	8/07/23	LFS	UPDATE TO 8TH ED. (2023) FBC
2	9/16/20	LFS	UPDATE TO 7TH ED. (2020) FBC
1	10/08/17	JK	UPDATE TO 6TH ED. (2017) FBC

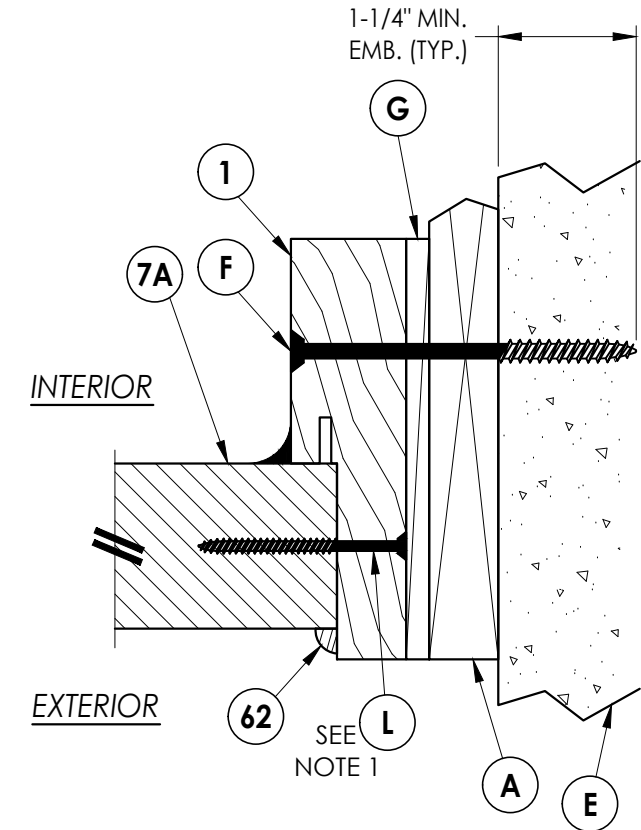
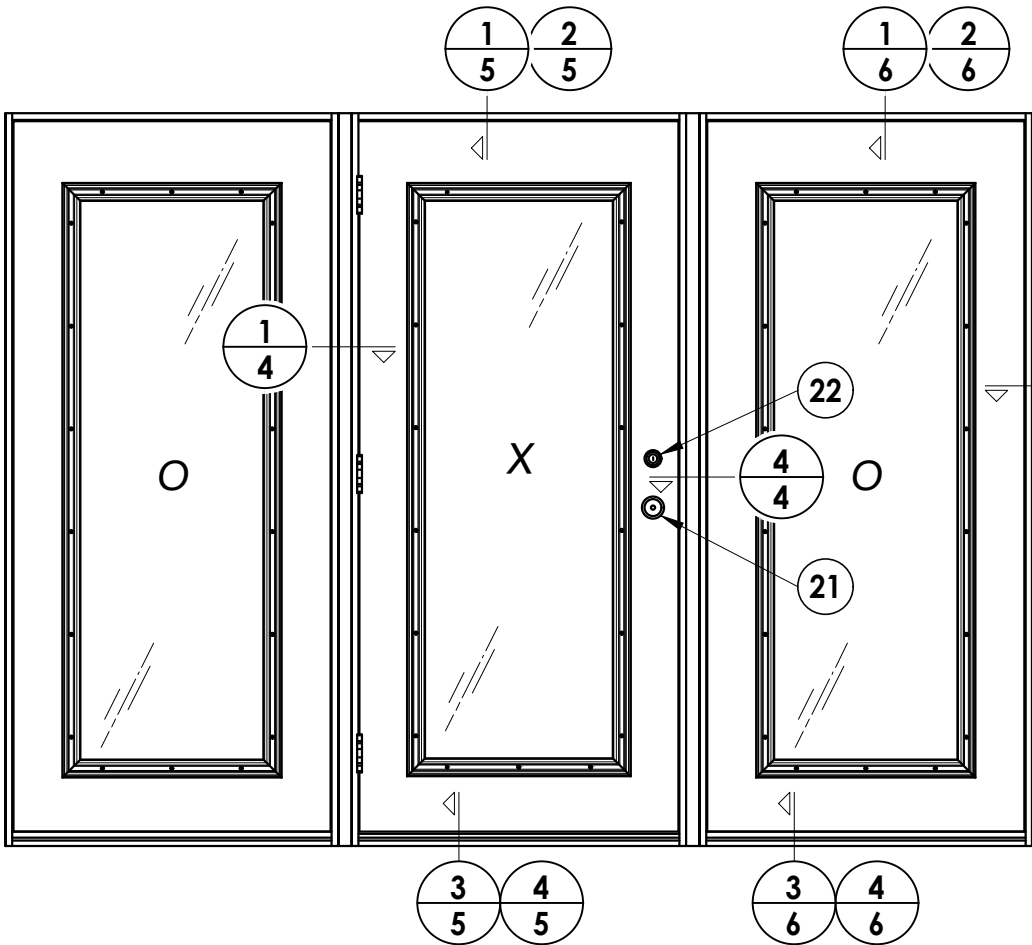
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

© 2015 R.W. BUILDING CONSULTANTS INC.

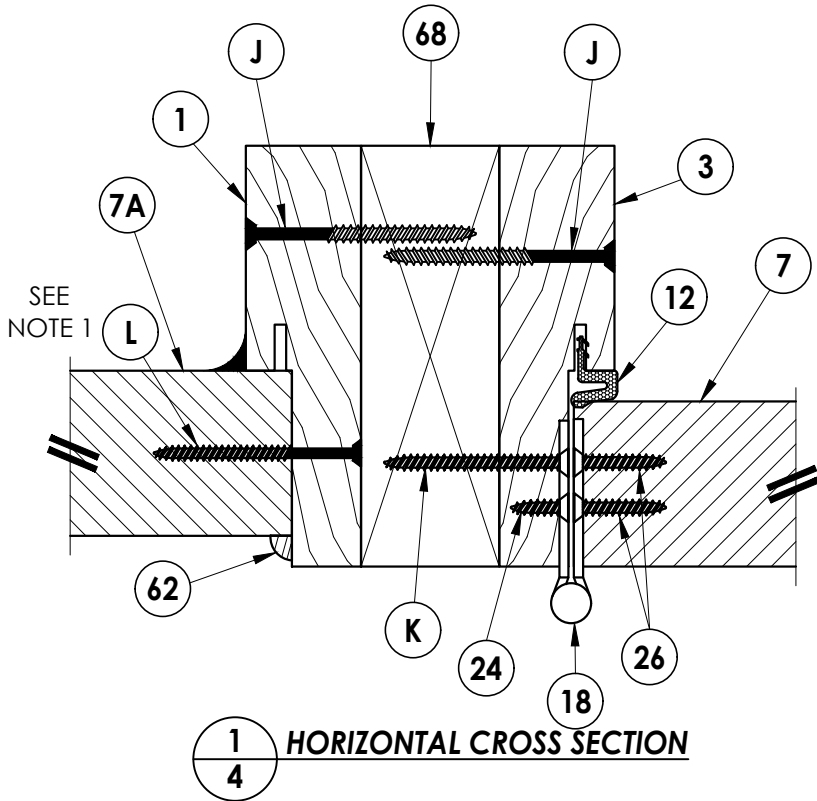
Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg

NOTE:

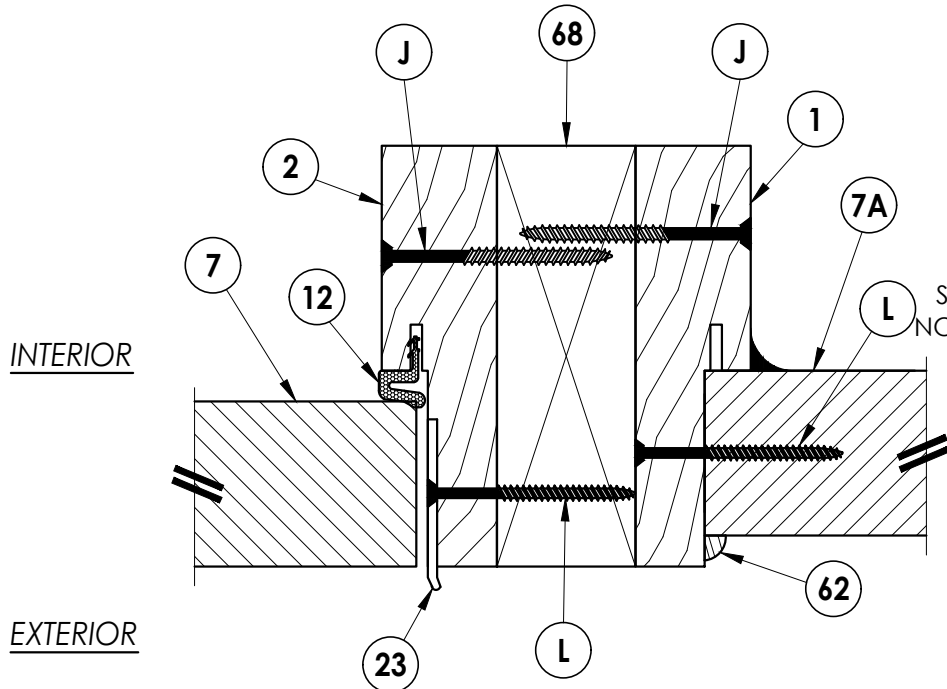
1. Sidelite ass'y fastener; 6" from each end and 6 more screws equally spaced between. (8 screws total per jamb.)



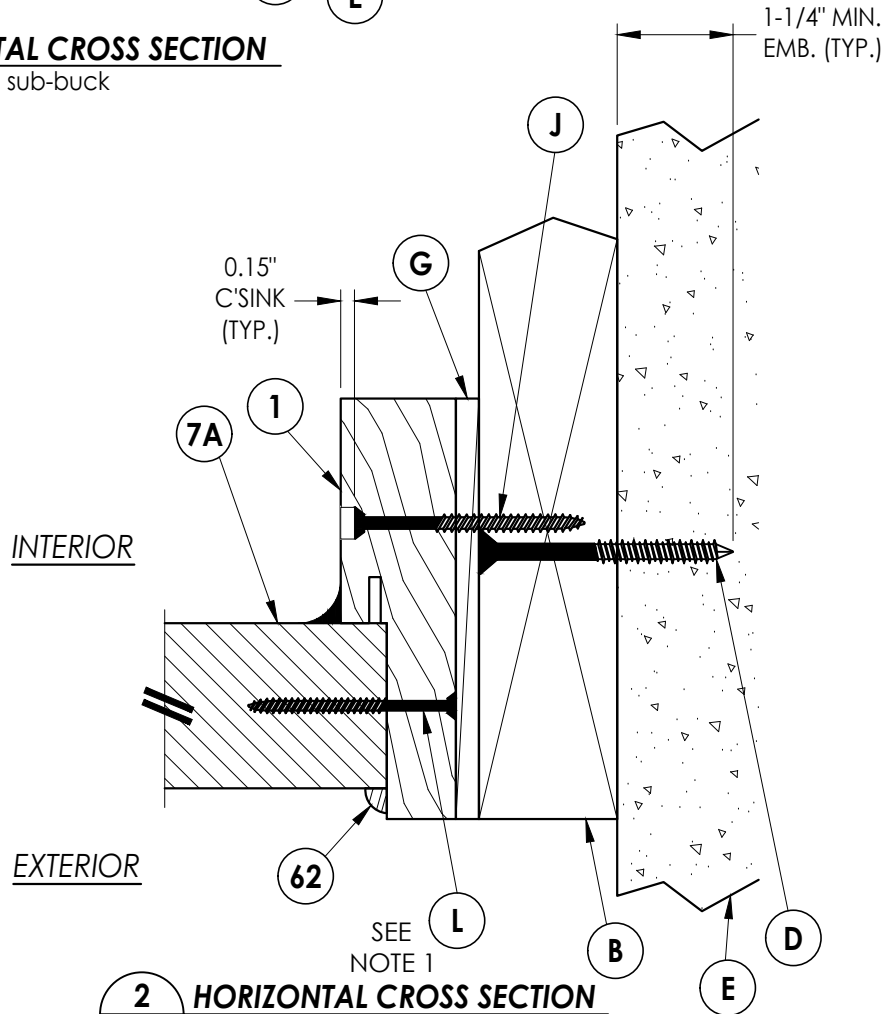
3/4 HORIZONTAL CROSS SECTION
Shown w/1X sub-buck



1/4 HORIZONTAL CROSS SECTION



4/4 HORIZONTAL CROSS SECTION



2/4 HORIZONTAL CROSS SECTION
Outswing shown - inswing also approved

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:
HORIZONTAL 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

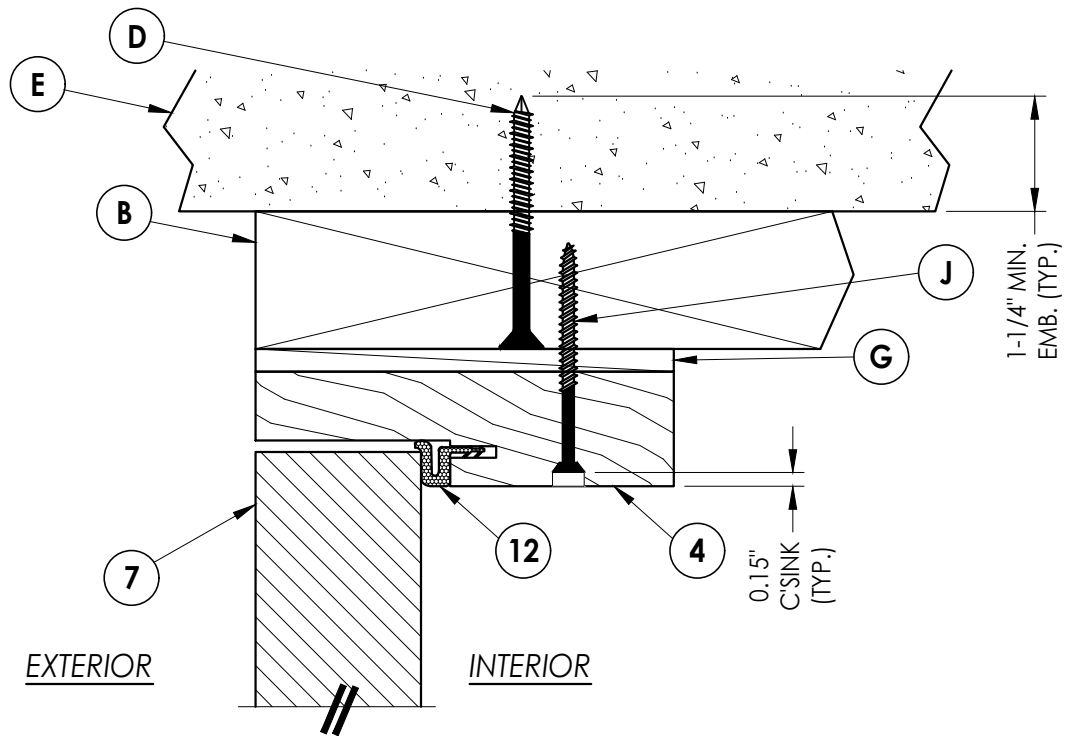
SCALE: N.T.S.

DWG. BY: JK

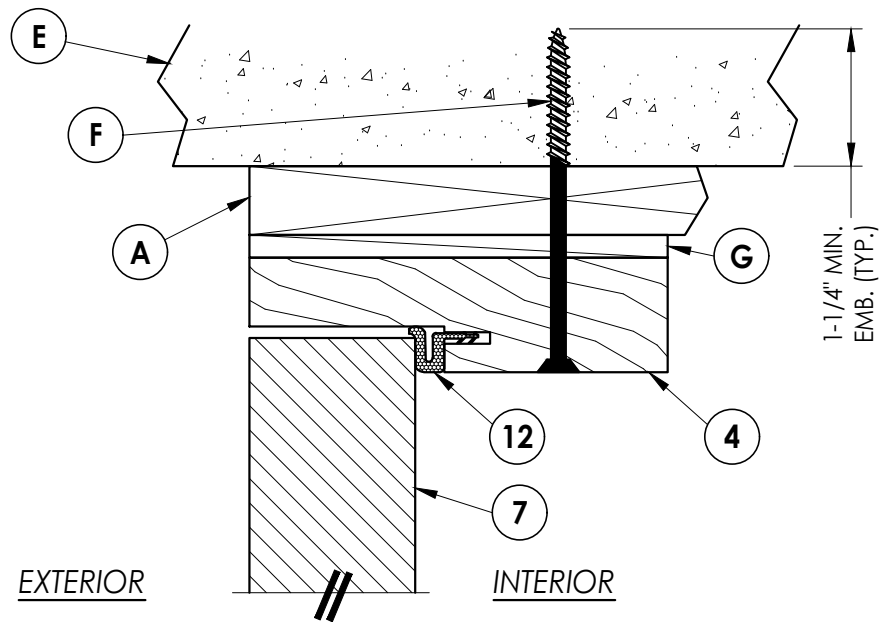
CHK. BY: LFS

DRAWING NO.: FL-17901.13

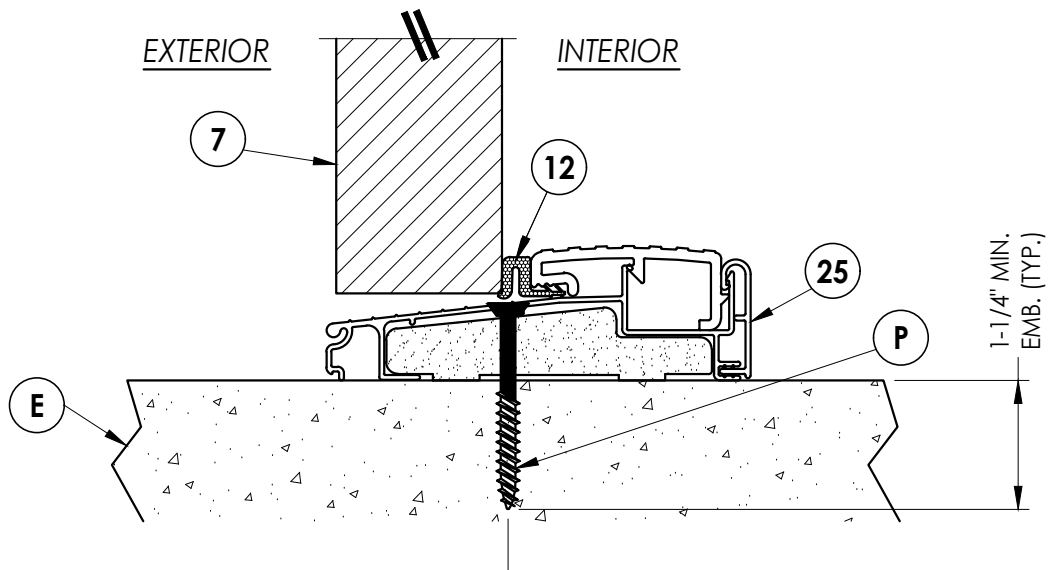
SHEET 4 OF 9



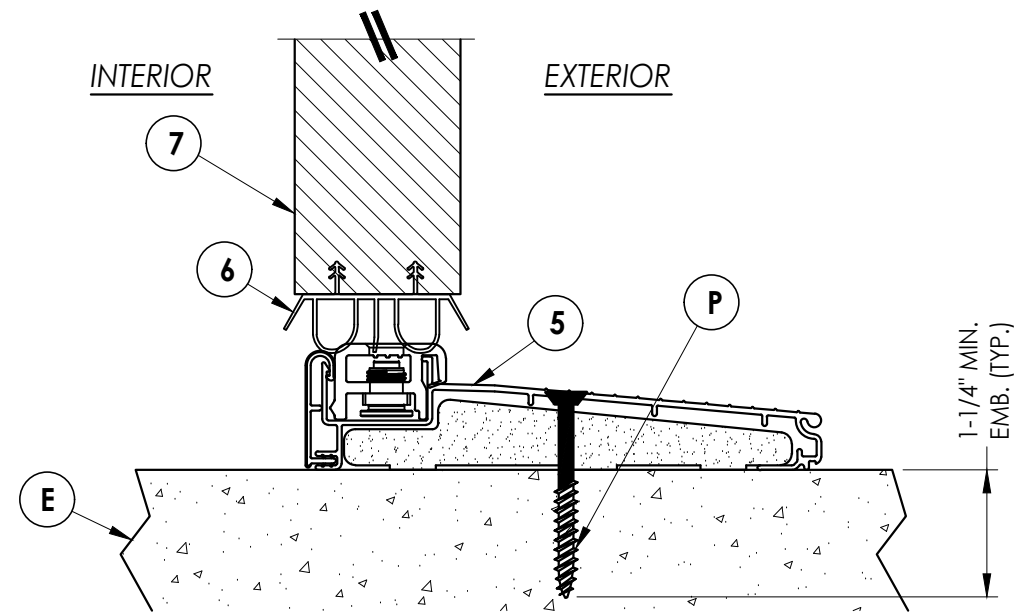
1
5 **VERTICAL CROSS SECTION**
Outswing shown - inswing
also approved



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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, 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

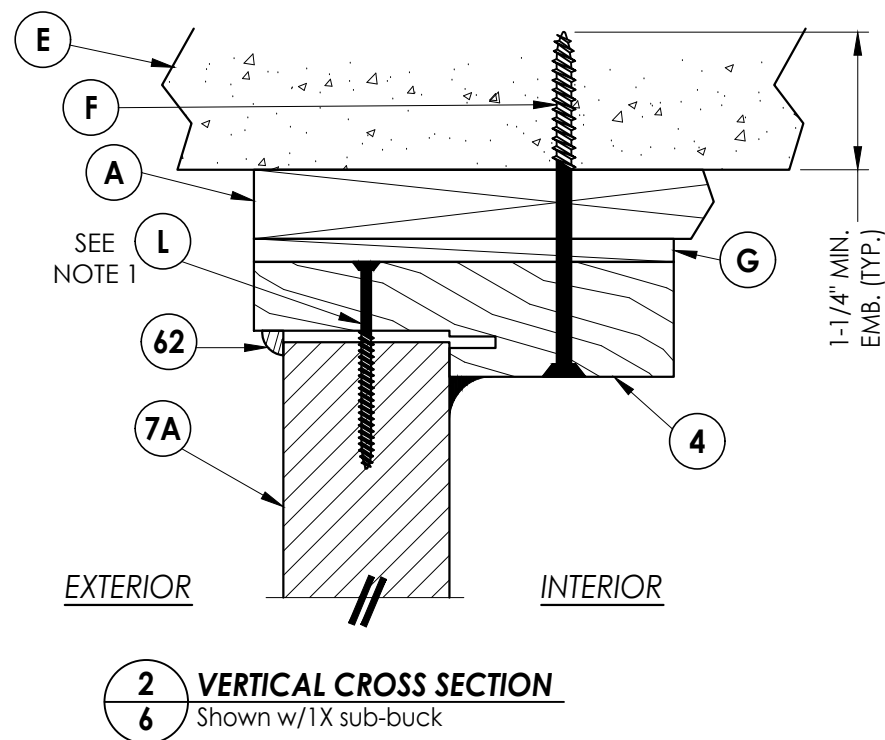
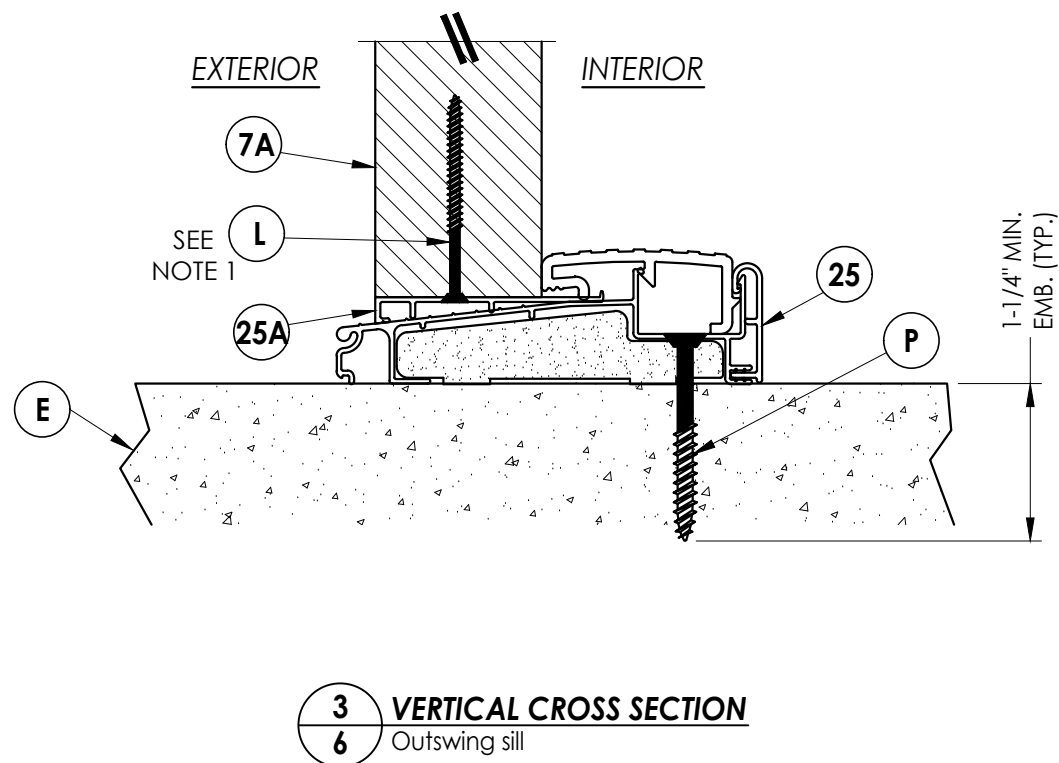
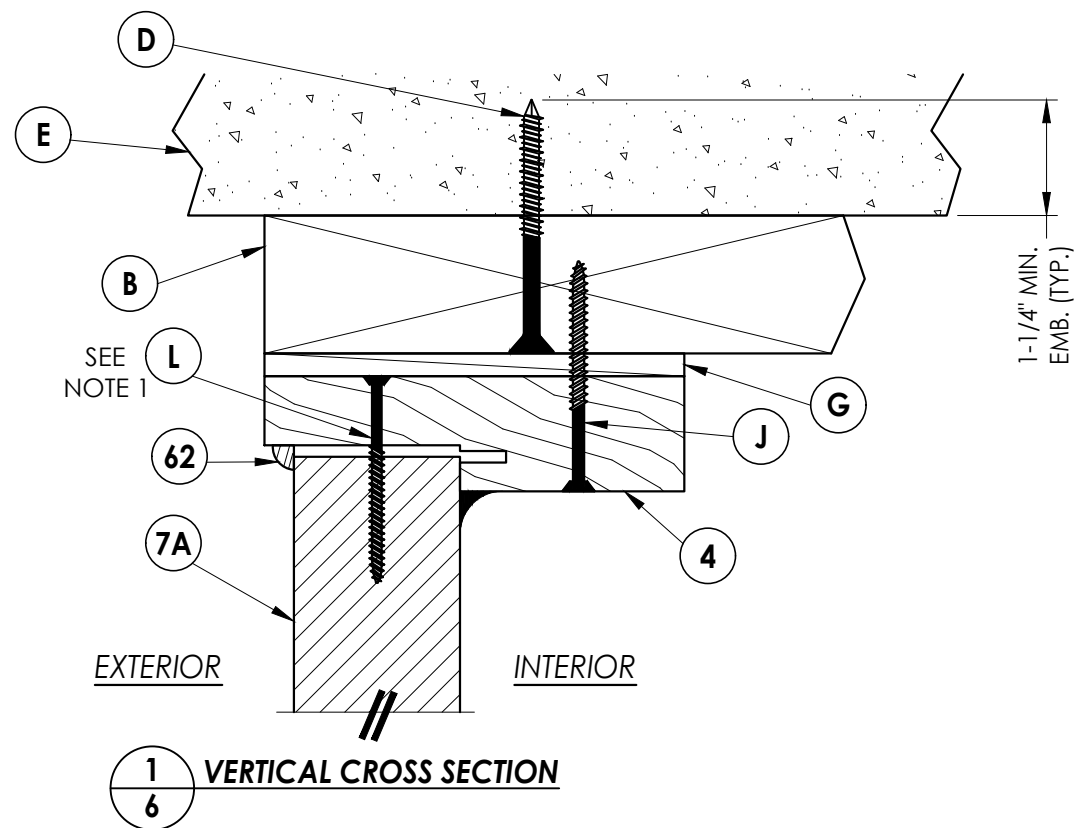
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

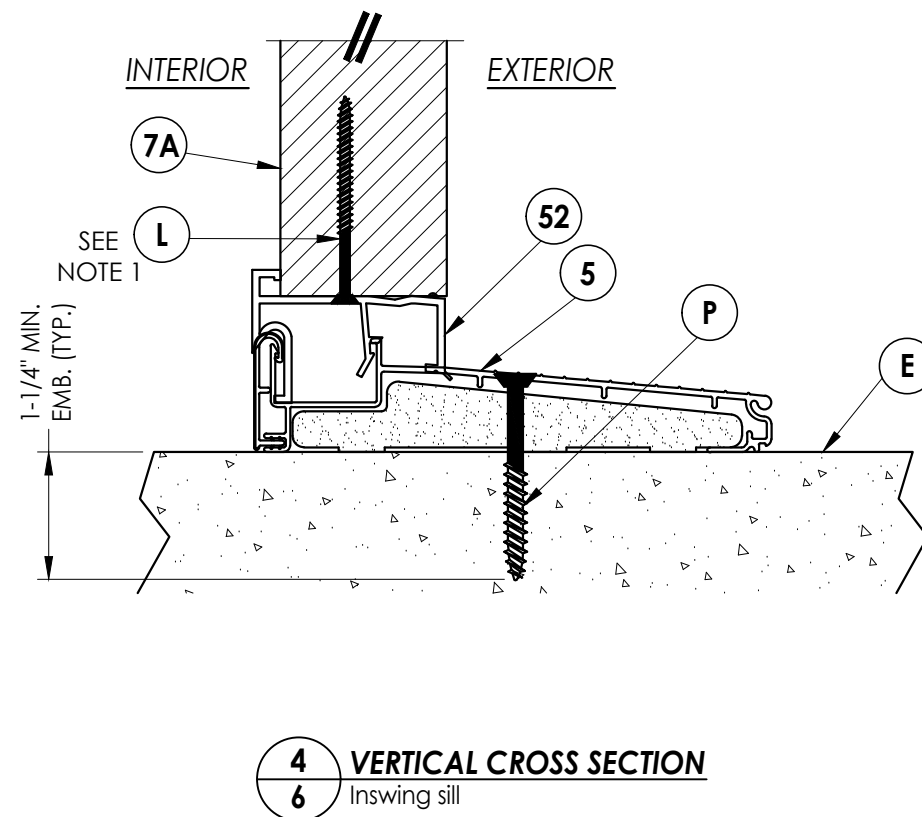
DRAWING NO.: FL-17901.13

SHEET 5 OF 9



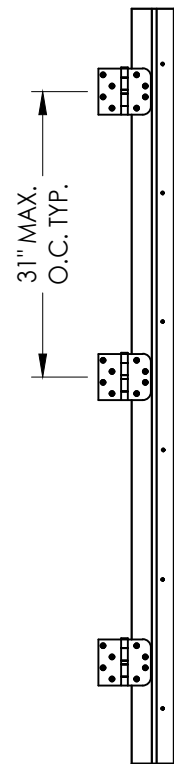
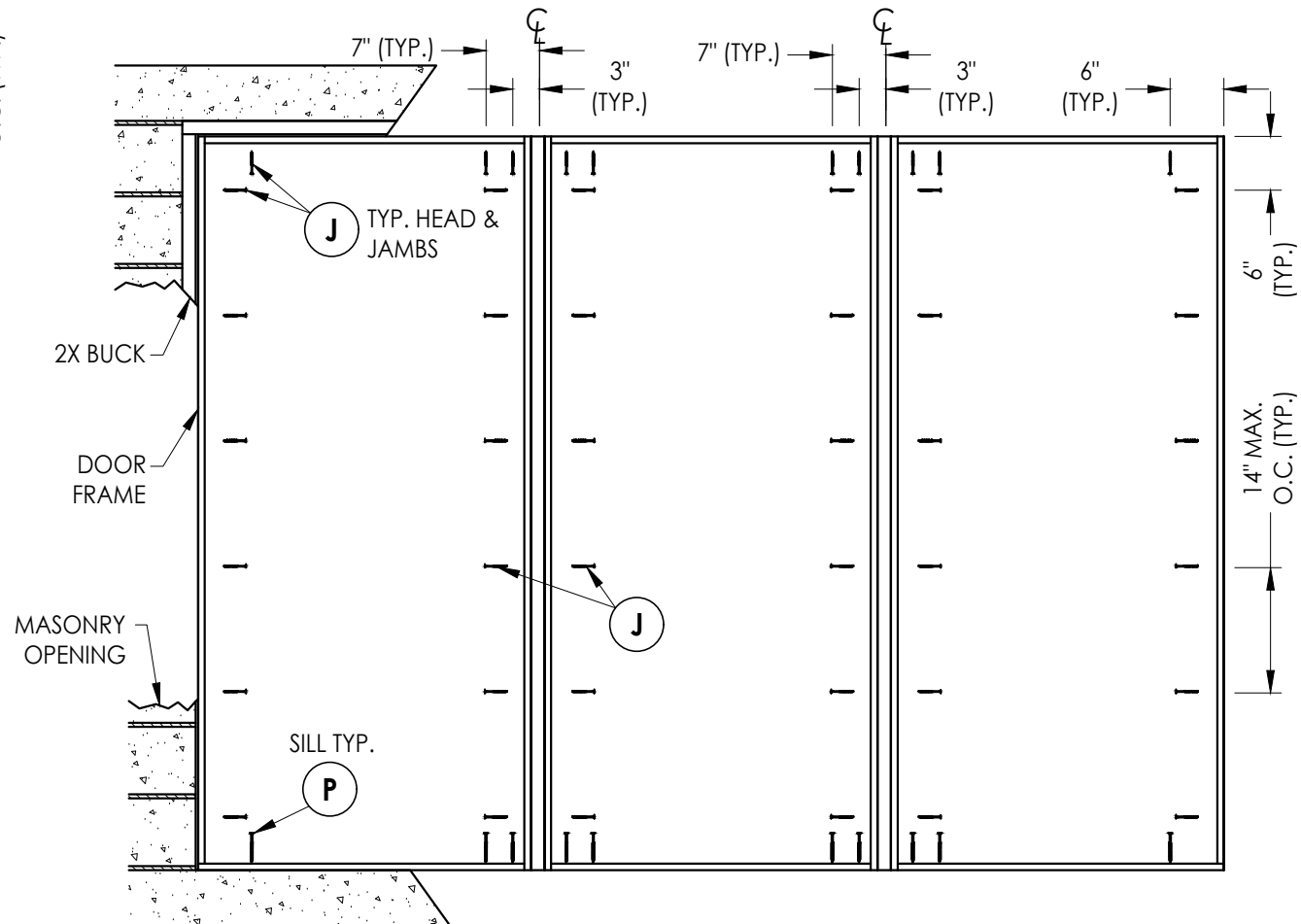
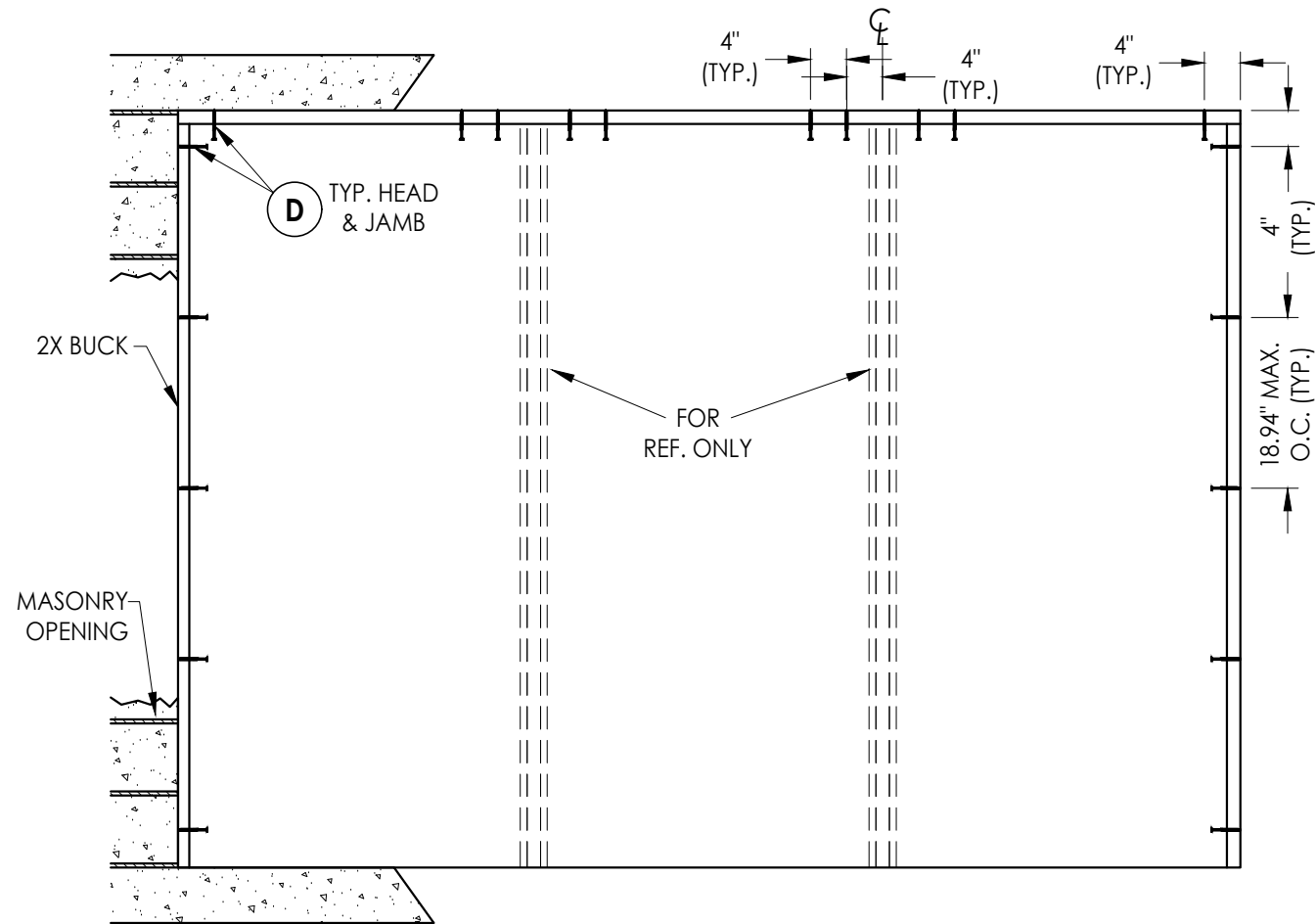
NOTE:

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

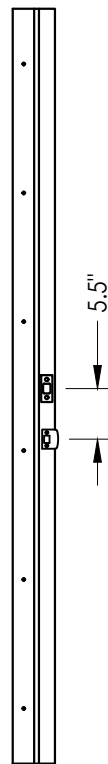
[illegible]

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

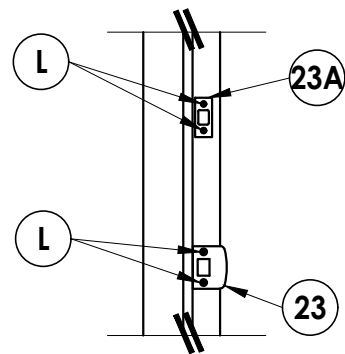


HINGE JAMB

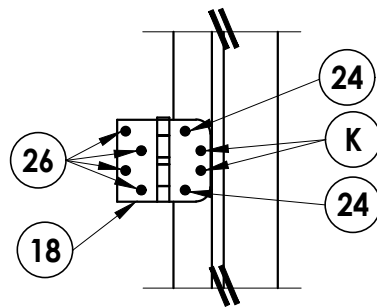


STRIKE JAMB

FRAME ANCHORING
Masonry 2X buck construction



STRIKE PLATE DETAIL



HINGE DETAIL 1

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

DATE: 7/18/15

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-17901.13

SHEET 7 OF 9

PRODUCT: STEVES AND SONS

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

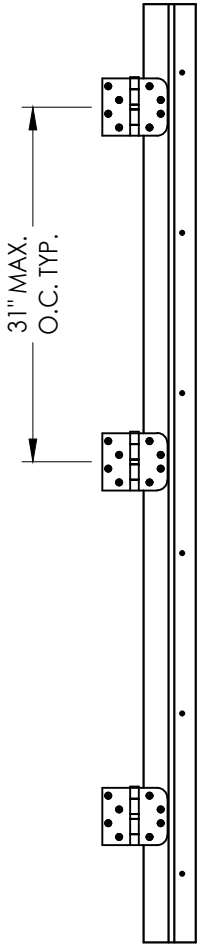
PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
2X BUCK MASONRY CONSTRUCTION

R²N
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 333
Phone No.: 813.659.9197
FBPE Registry No. 9813

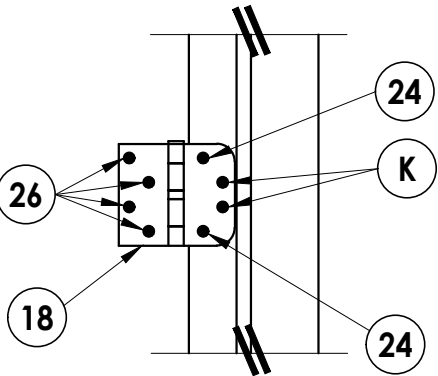
3	NO.	DATE
---	-----	------

© 2015 R.W. BUILDING CONSULTANTS INC.

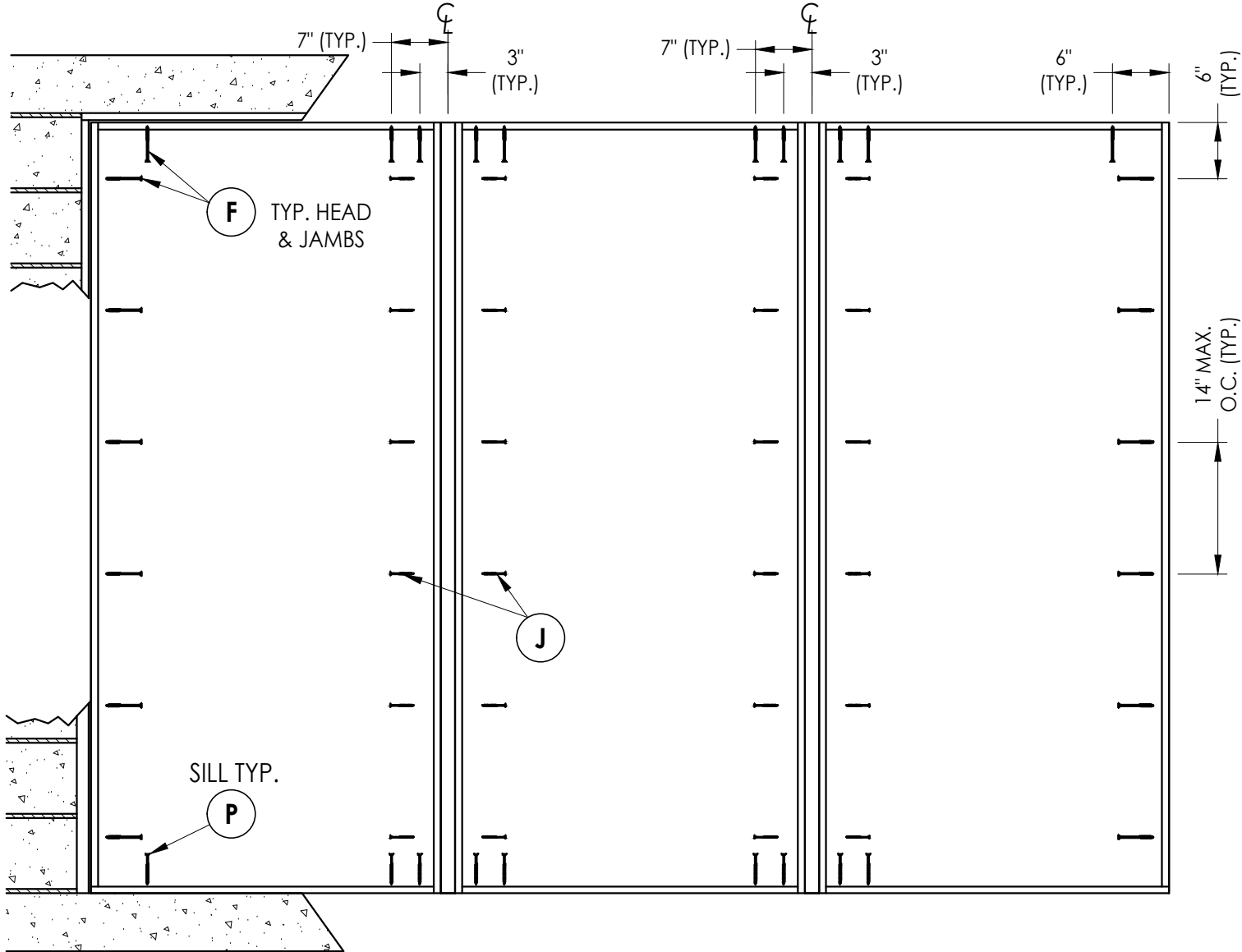
Z:\2023 FBC Drawings\Steves & Sons\FL-17901 R5\FL-17901.11-15.dwg



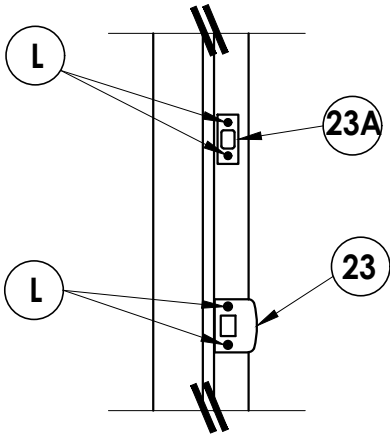
HINGE JAMB



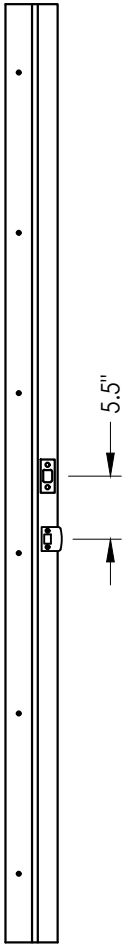
HINGE DETAIL



FRAME ANCHORING
Masonry 1X buck construction



STRIKE PLATE DETAIL



STRIKE JAMB

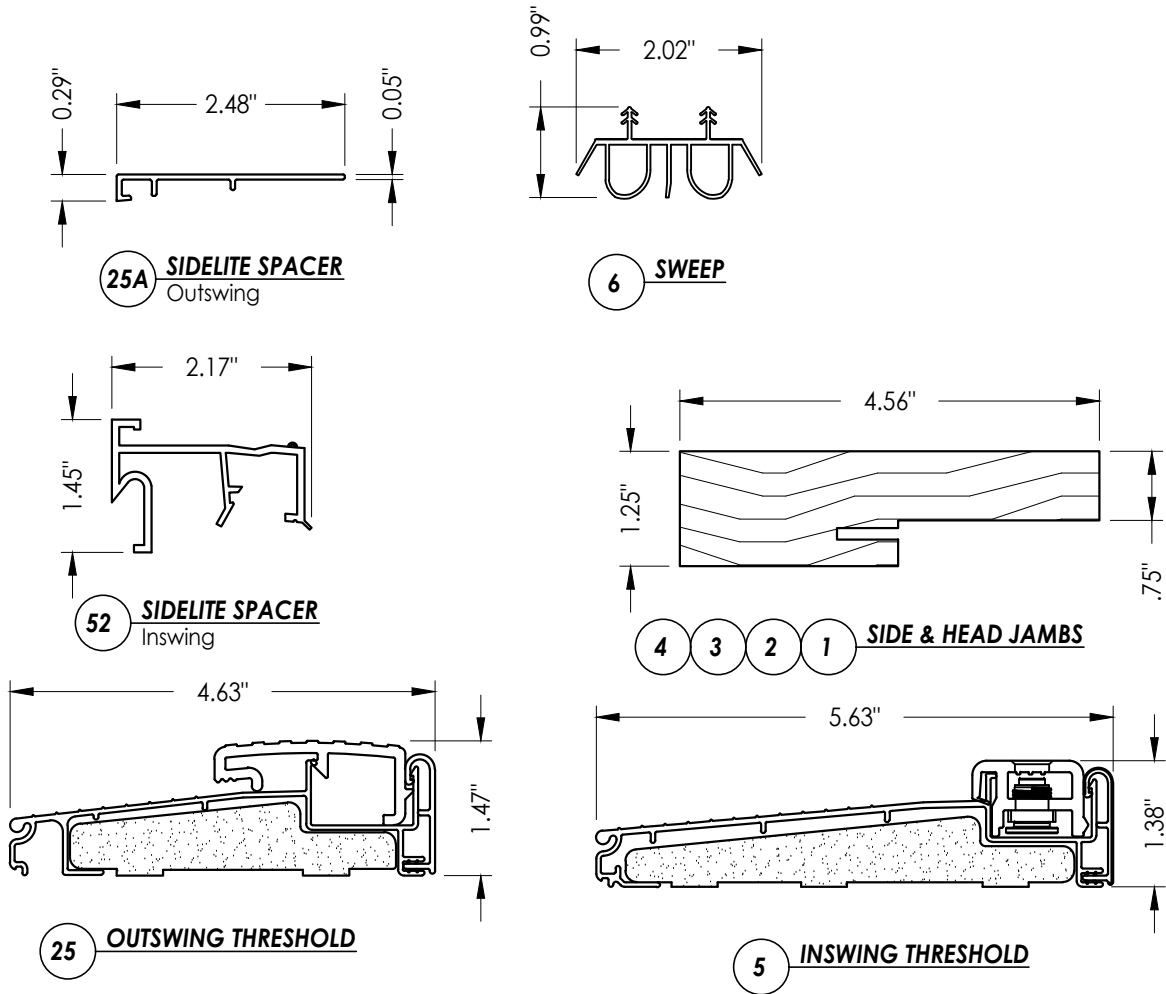
DATE: 7/18/15	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-17901.13	
SHEET 8	OF 9

PRODUCT:	STEVES AND SONS
	PART OR ASSEMBLY: FRAME ANCHORING 1X BUCK MASONRY CONSTRUCTION

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

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

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



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

PRODUCT:
STEVES AND SONS

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS		
		LFS	JK	BY
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-17901.13
SHEET 9 OF 9