



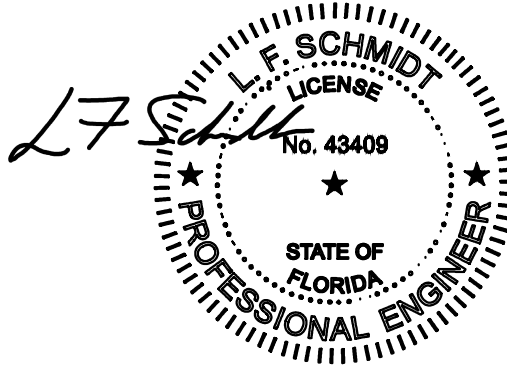
STEVES AND SONS
203 Humble Ave.
San Antonio, TX 78225

OPAQUE FIBERGLASS DOOR
INSWING / OUTSWING
"IMPACT"

GENERAL NOTES

- 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.
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- 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.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

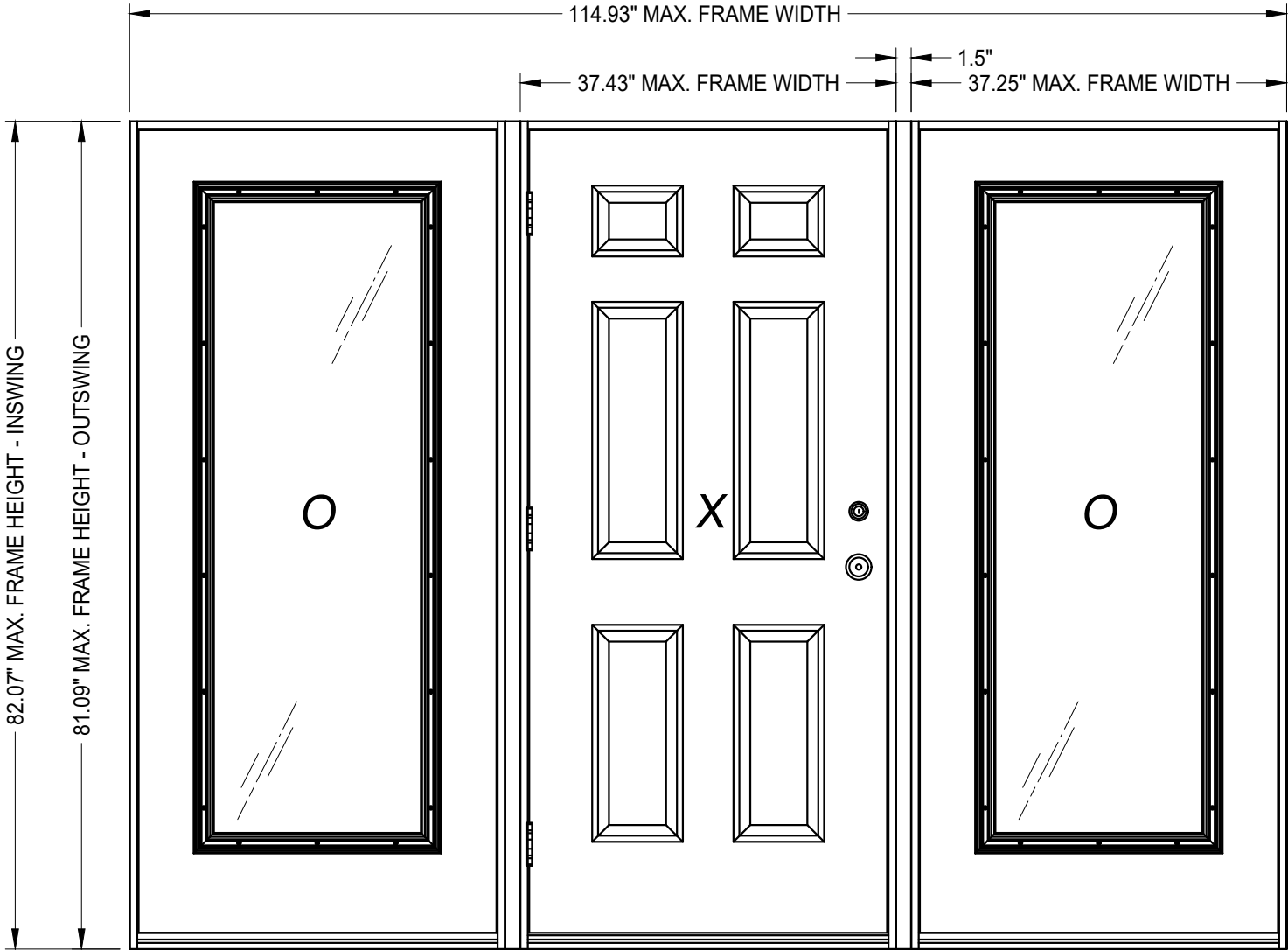
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details
3	Sidelite panel construction details
4	Horizontal cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Buck and frame anchoring - 2X buck masonry construction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



Digitally signed by Lyndon F Schmidt
Date: 2023.08.08 07:24:29 -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	114.93" x 82.07"	G1, G2	+55.0	-60.0
OUTSWING	114.93" x 81.09"		+55.0	-55.0

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

REVISIONS			
NO.	DATE	BY	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

DATE: 7/17/15

SCALE: N.T.S.

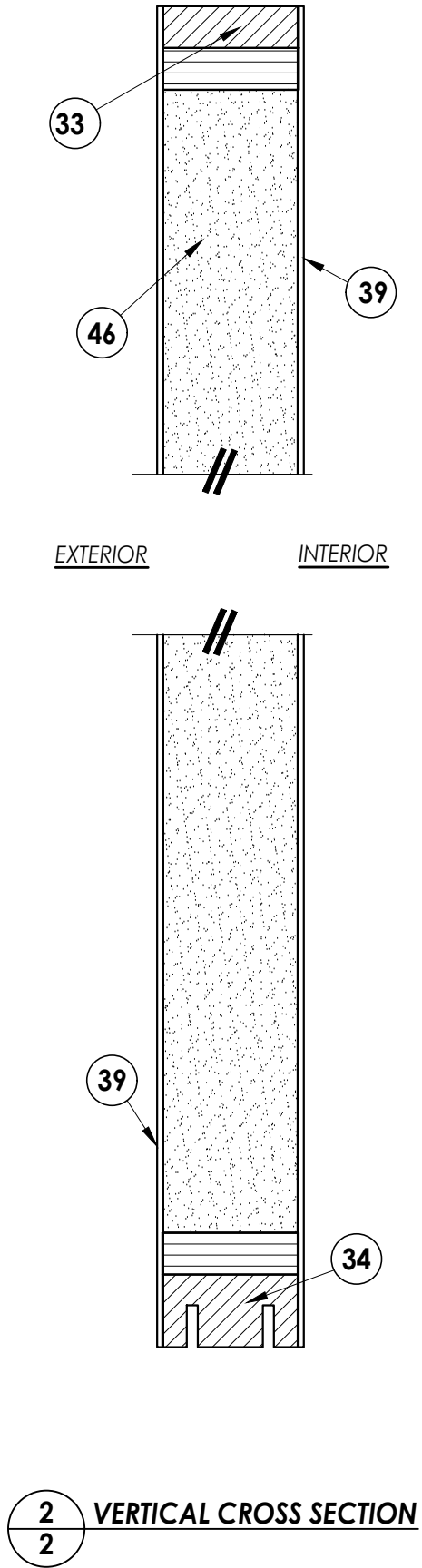
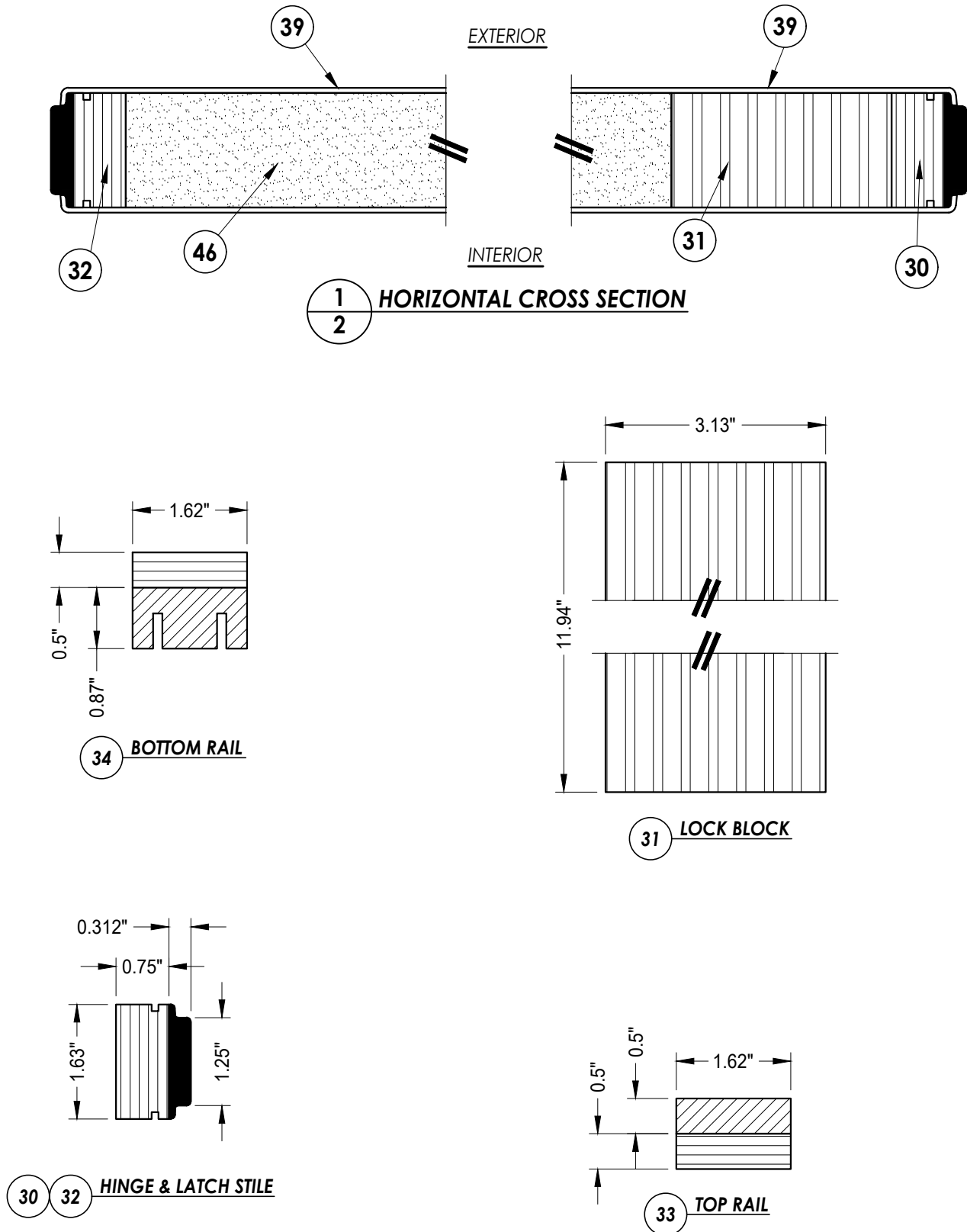
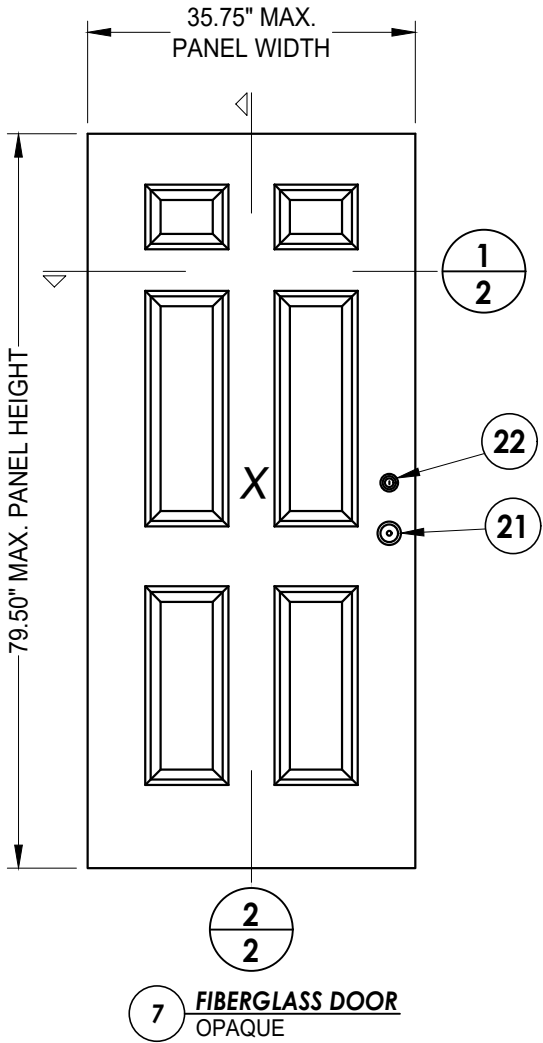
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17901.3

SHEET 1 OF 9



DATE		7/17/15	
SCALE		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-17901.3	
SHEET		2 OF 9	

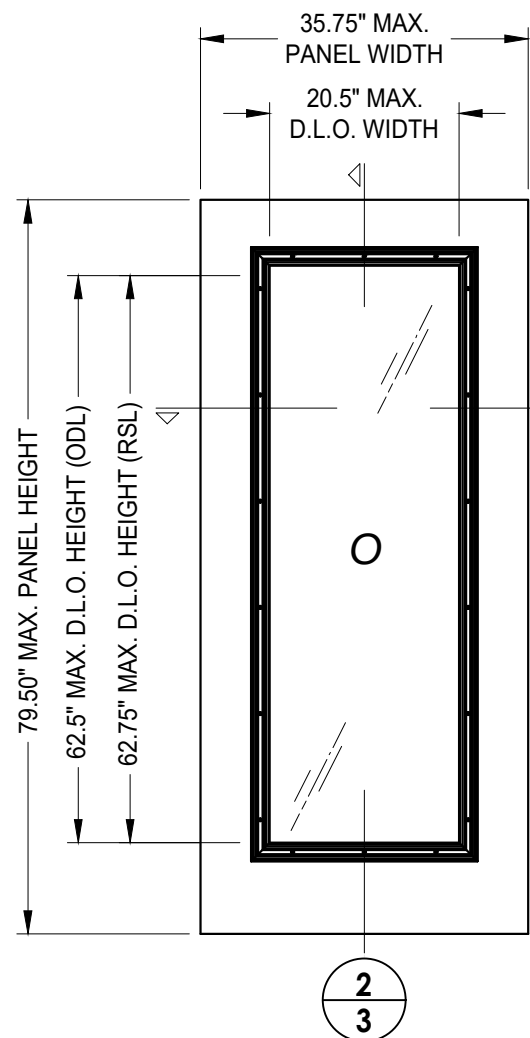
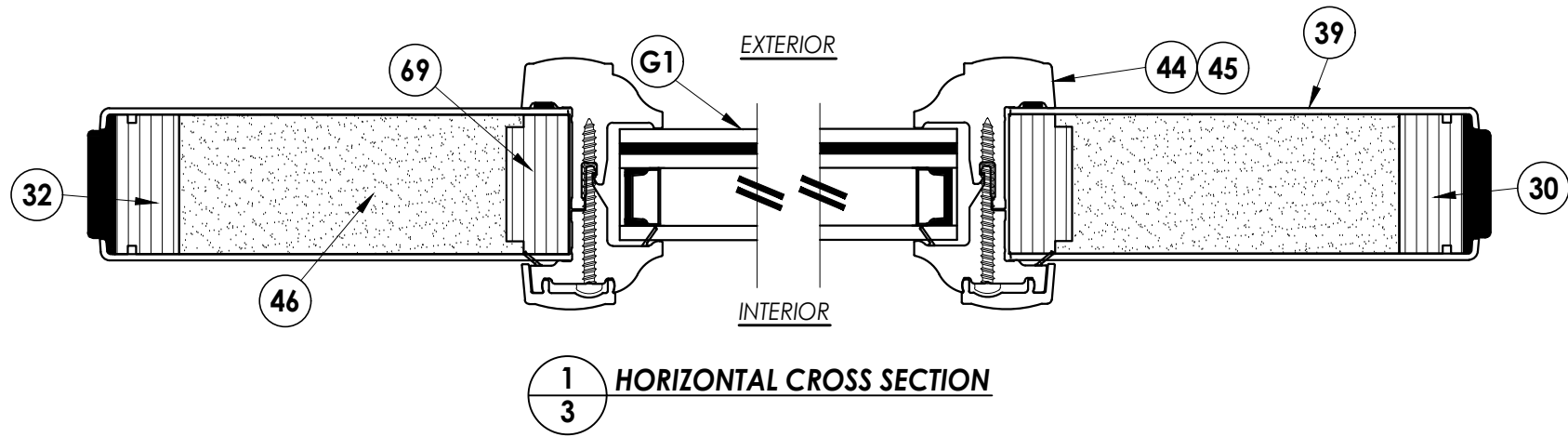
PRODUCT:		STEVE'S AND SONS	
PART OR ASSEMBLY:		DOOR PANEL CONSTRUCTION DETAILS	

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

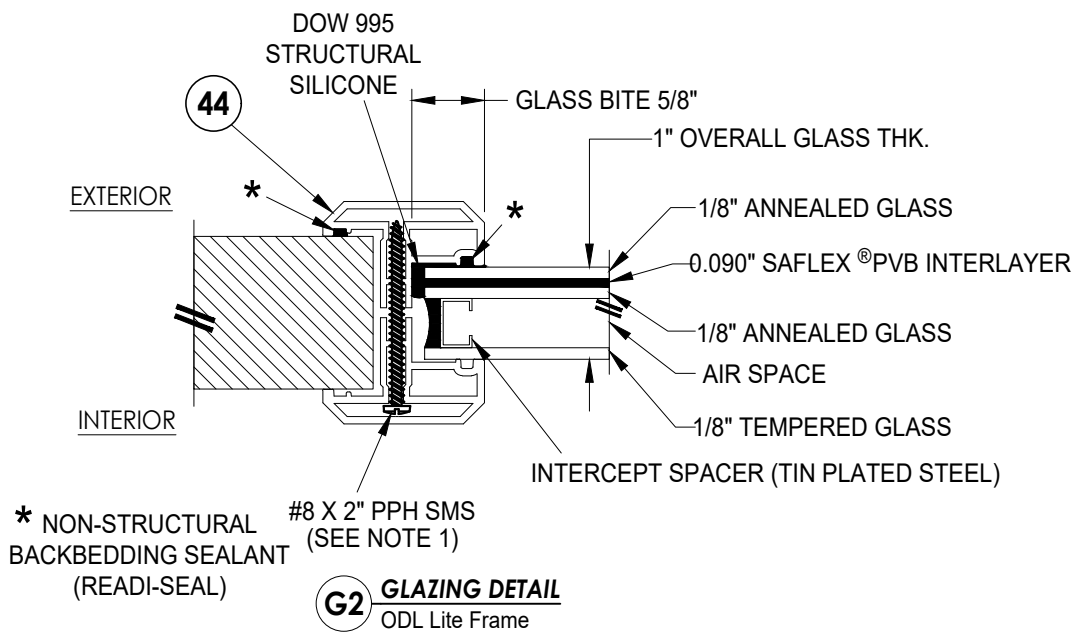
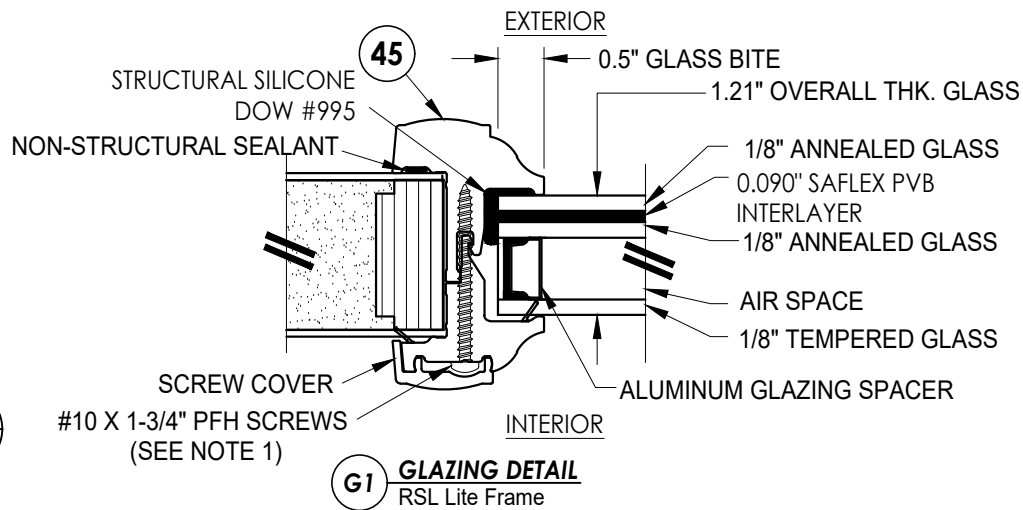
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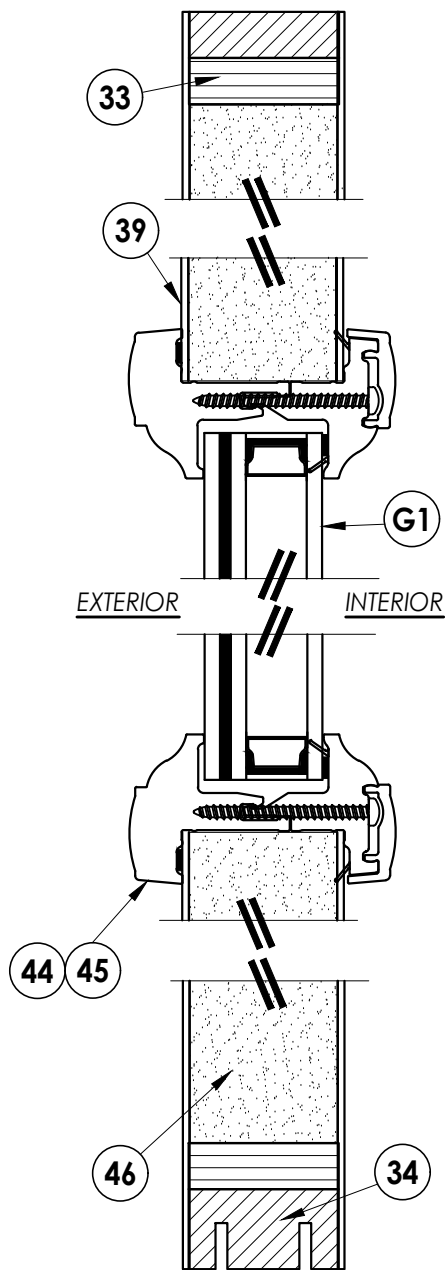
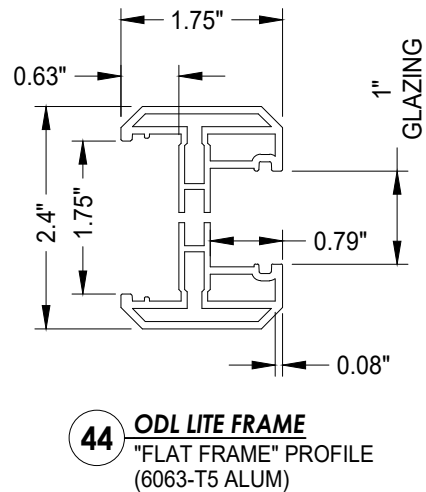
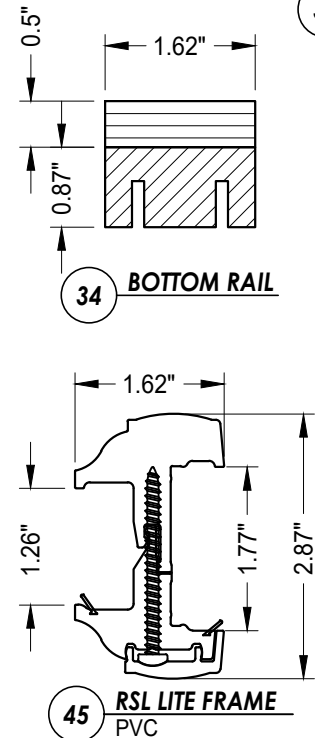
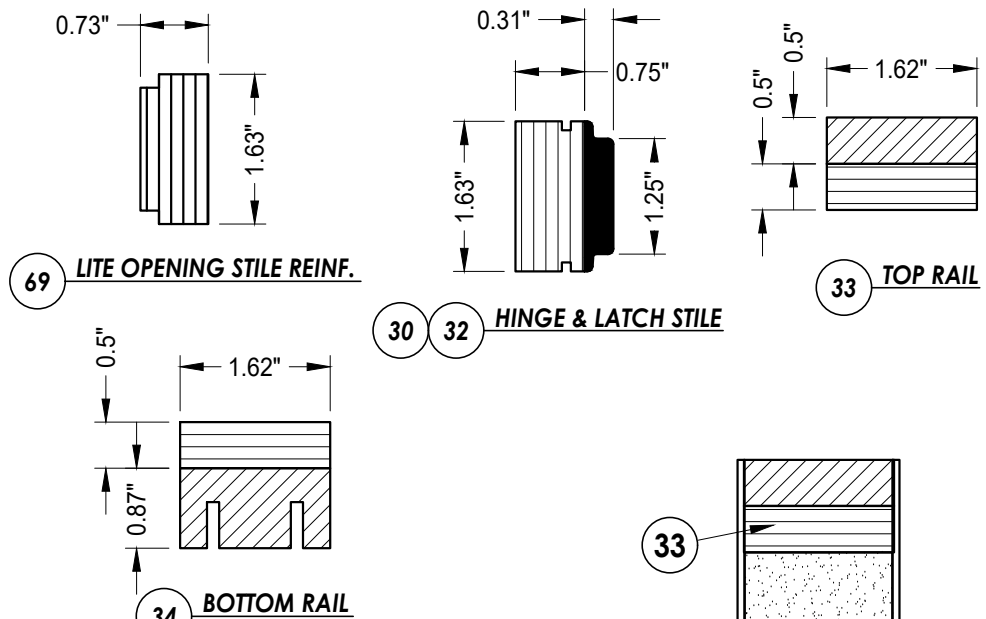
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7A FIBERGLASS SIDELITE
Large unit



NOTE:
1. LITE FRAME SCREWS:
6 ALONG EACH SIDE PLUS 3 ALONG
TOP & BOTTOM (18 SCREWS TOTAL)



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PRODUCT:
STEVE'S AND SONS

PART OR ASSEMBLY:
SIDELITE 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: 7/17/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

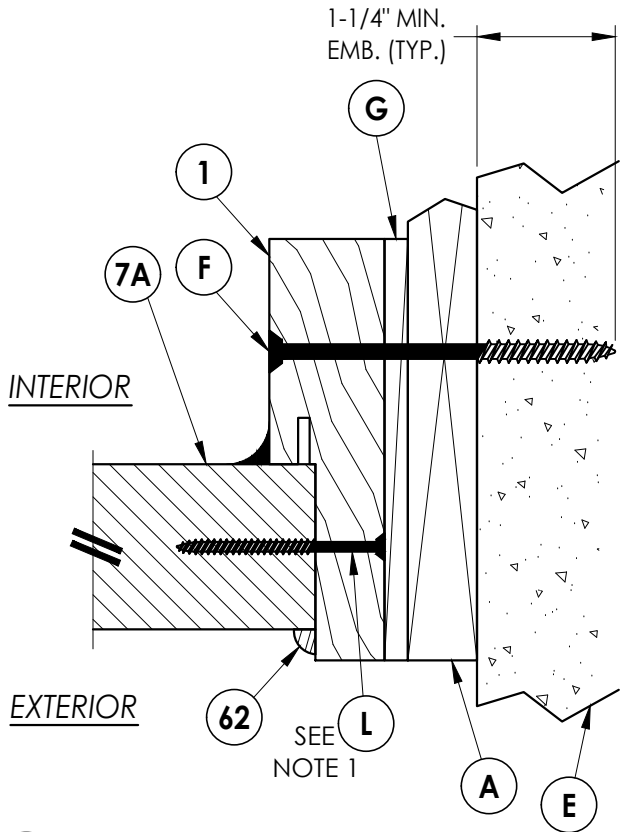
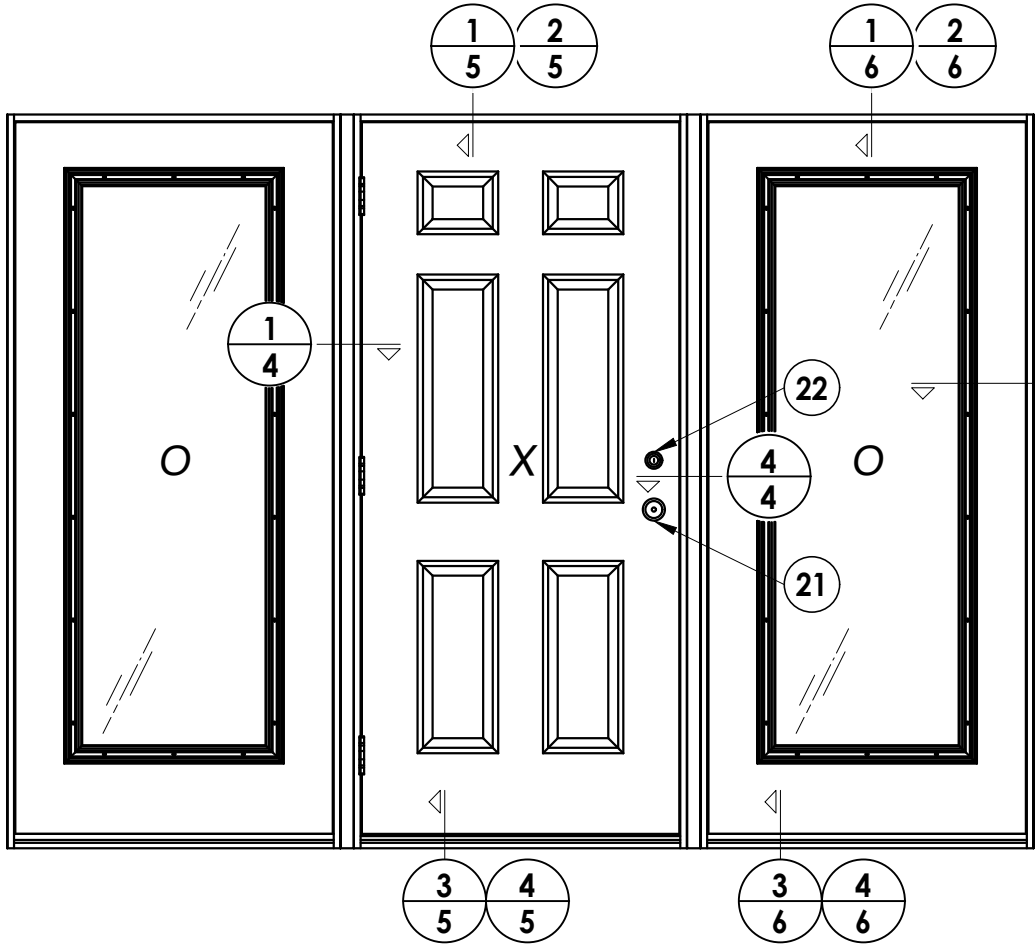
DRAWING NO.: FL-17901.3

SHEET 3 OF 9

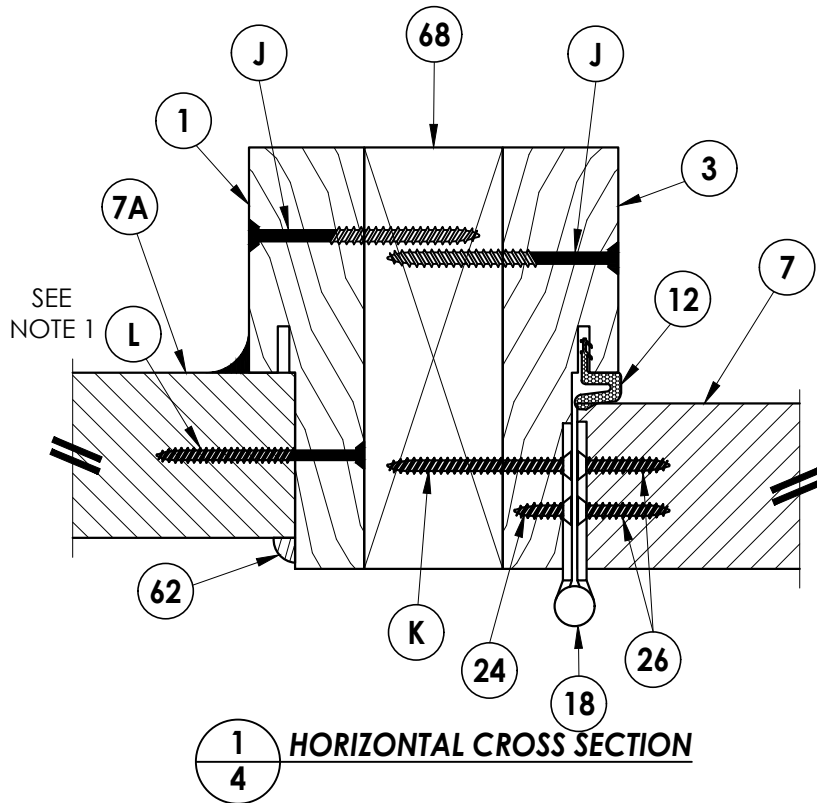
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NOTE:

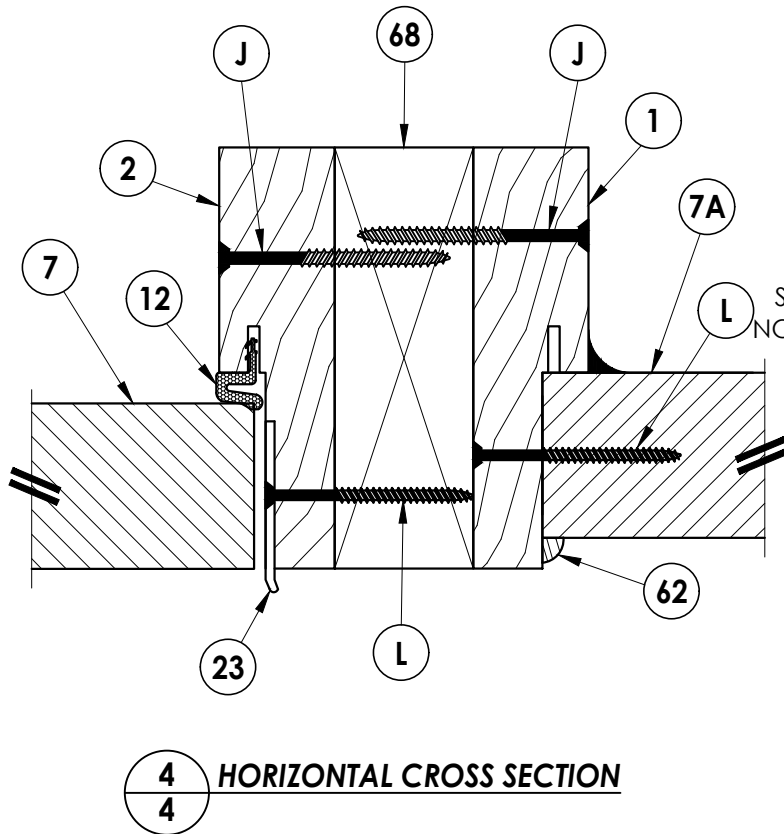
1. Sidelite ass'y fastener; 6" from each end and 6 more screws equally spaced between. (8 screws total per jamb.)



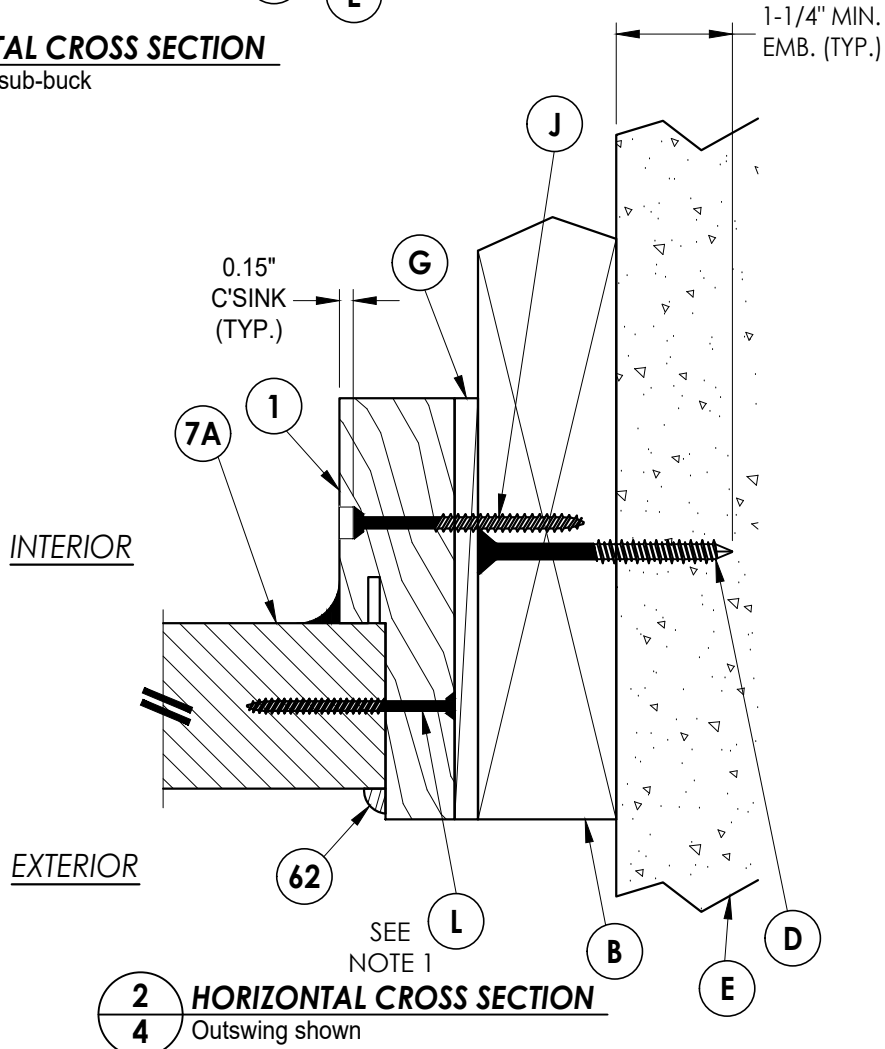
3
4 HORIZONTAL CROSS SECTION
Shown w/1X sub-buck



1
4 HORIZONTAL CROSS SECTION



4
4 HORIZONTAL CROSS SECTION



2
4 HORIZONTAL CROSS SECTION
Outswing shown

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PRODUCT:
STEVE'S AND SONS
PART OR ASSEMBLY:
HORIZONTAL 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: 7/17/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17901.3
SHEET 4 OF 9

Technical cross-section diagram of a window assembly. The diagram shows the exterior and interior components. Key labels include:

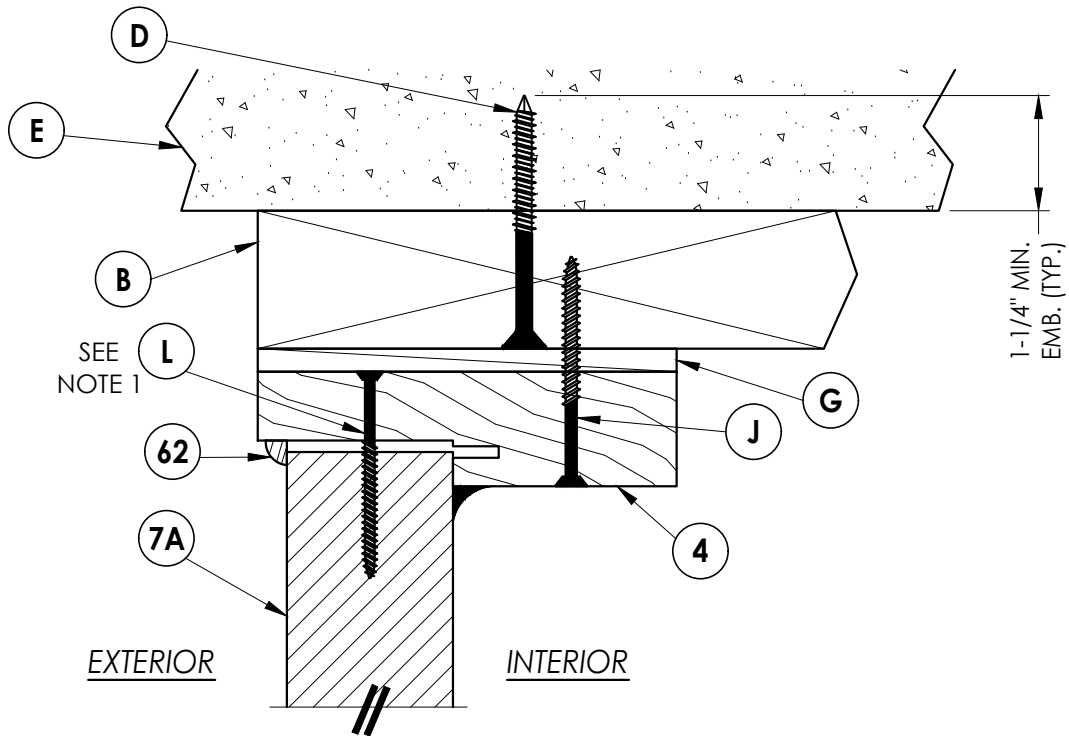
- A**: Points to the exterior frame or sash.
- E**: Points to the exterior weatherstripping or seal.
- F**: Points to the exterior glass or pane.
- G**: Points to the interior frame or sash.
- 4**: Points to the interior weatherstripping or seal.
- 7**: Points to the exterior frame or sash.
- 12**: Points to the interior frame or sash.

A vertical dimension line on the right indicates a minimum thickness of 1-1/4" MIN. EMB. (TYP.) for the exterior weatherstripping/seal.

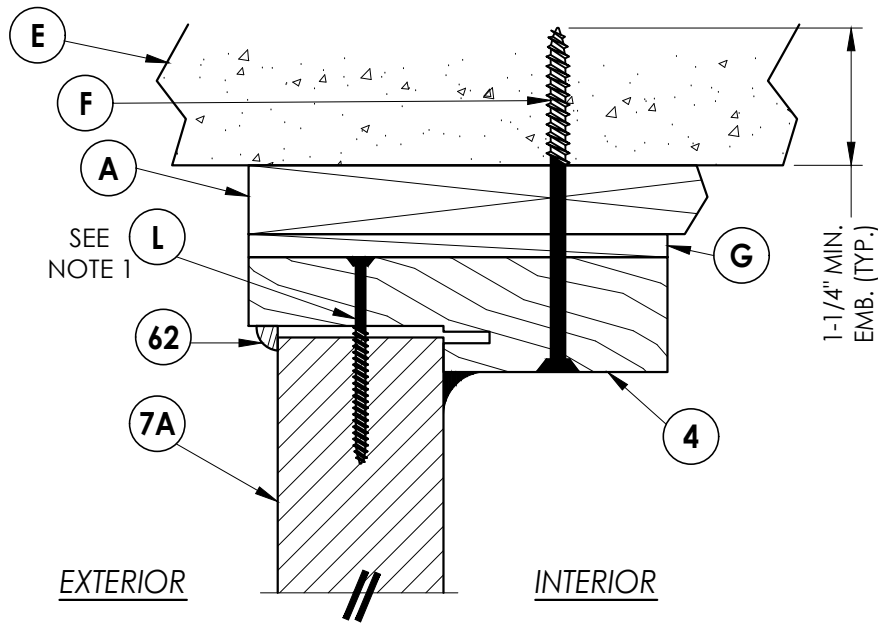
EXTERIOR INTERIOR

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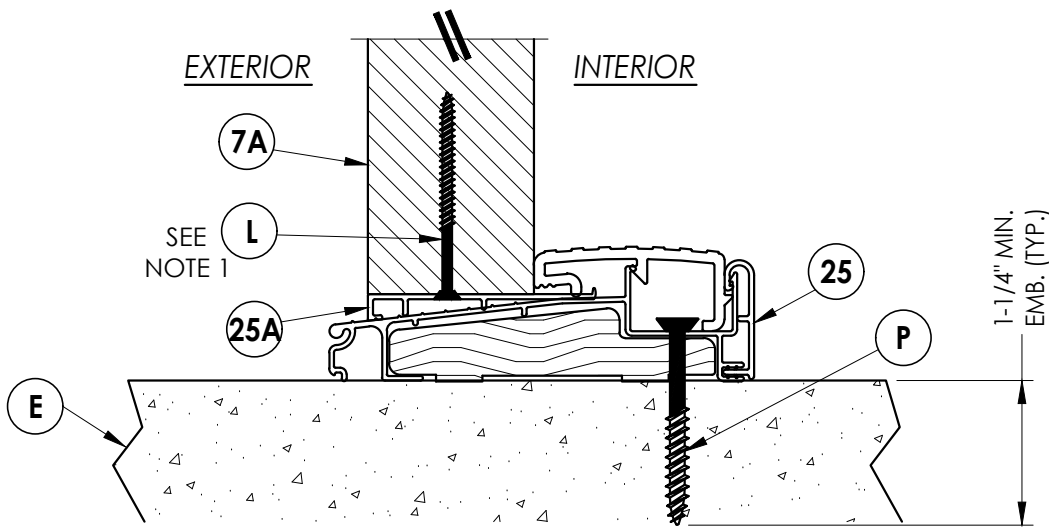
1
6 VERTICAL CROSS SECTION



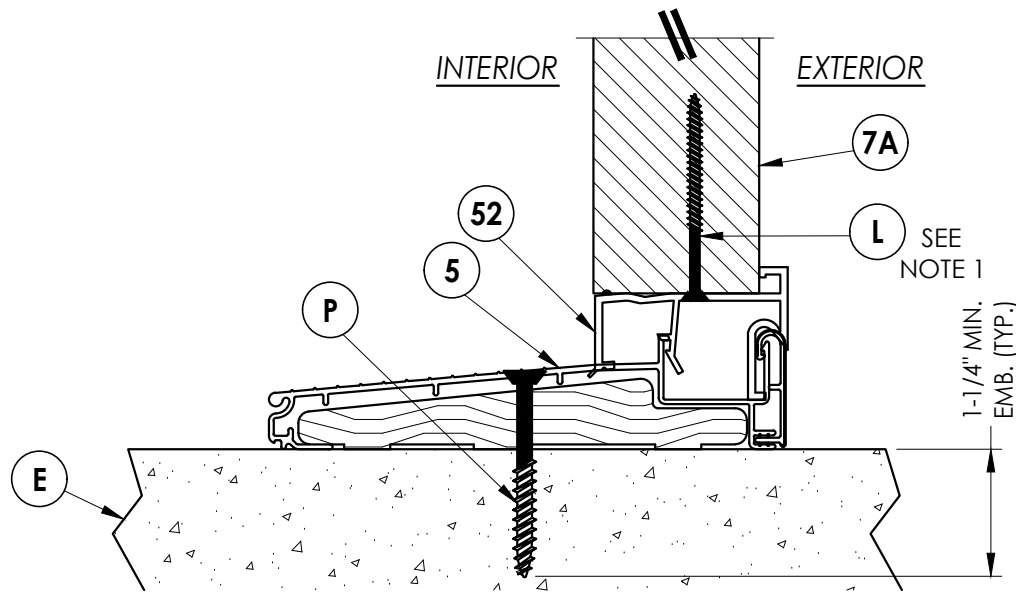
2
6 VERTICAL CROSS SECTION
Shown w/1X sub-buck

NOTE:

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



3
6 VERTICAL CROSS SECTION
Outswing sill



4
6 VERTICAL CROSS SECTION
Inswing sill

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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: 7/17/15

SCALE: N.T.S.

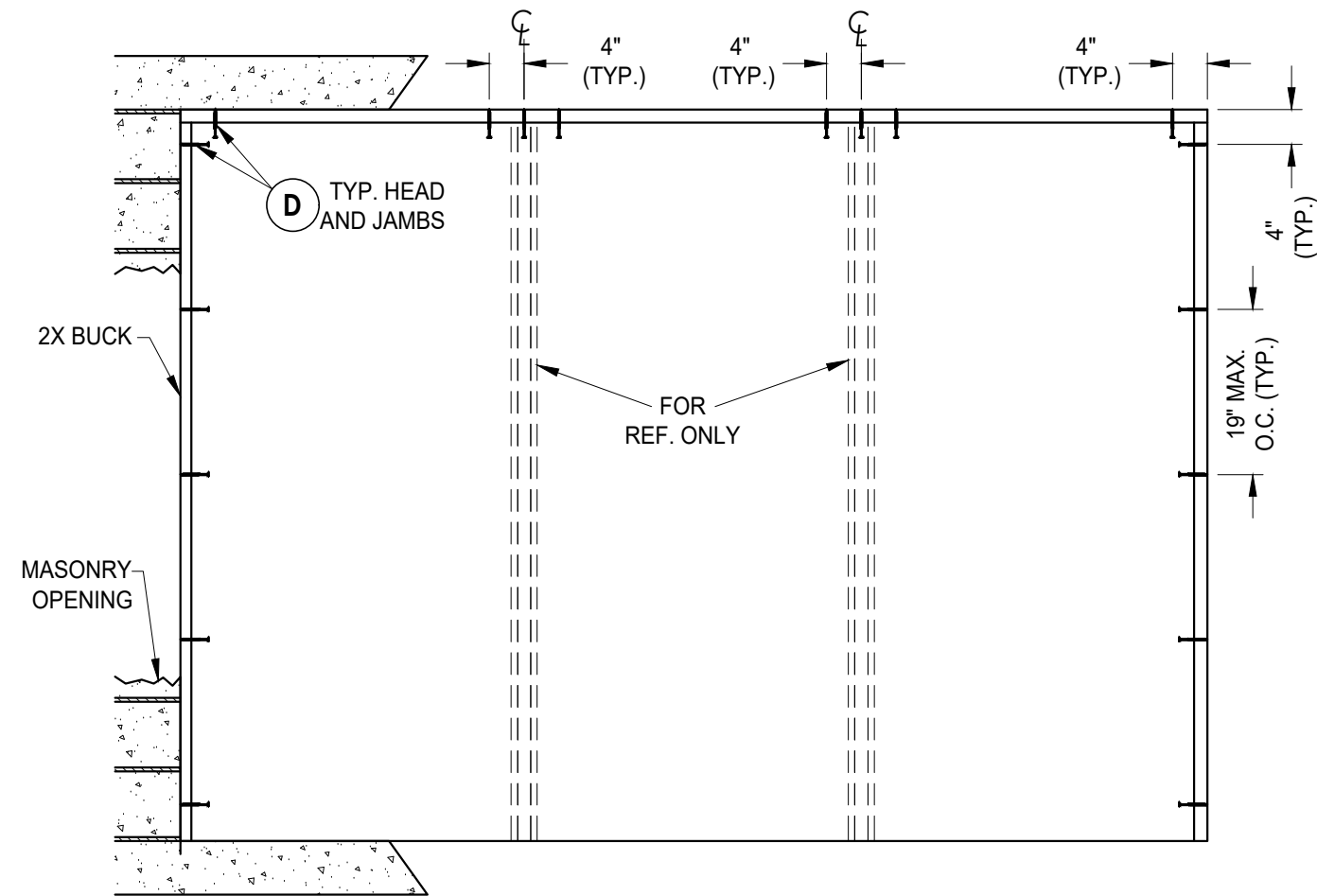
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CHK. BY: LFS

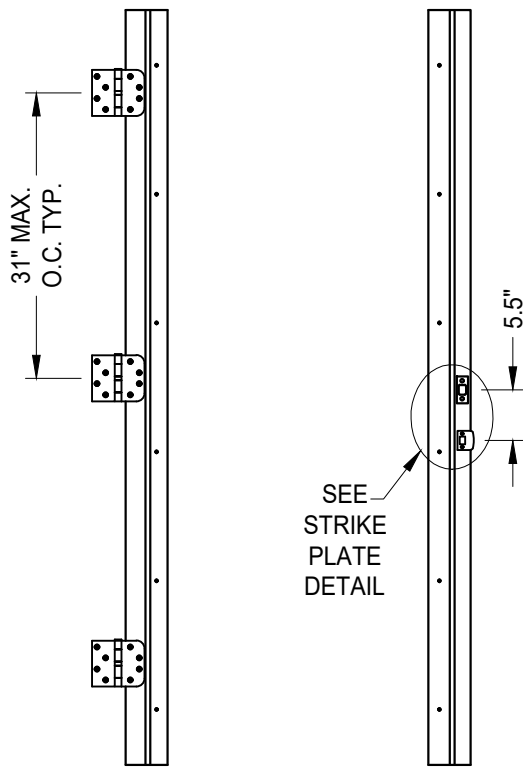
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SHEET 6 OF 9

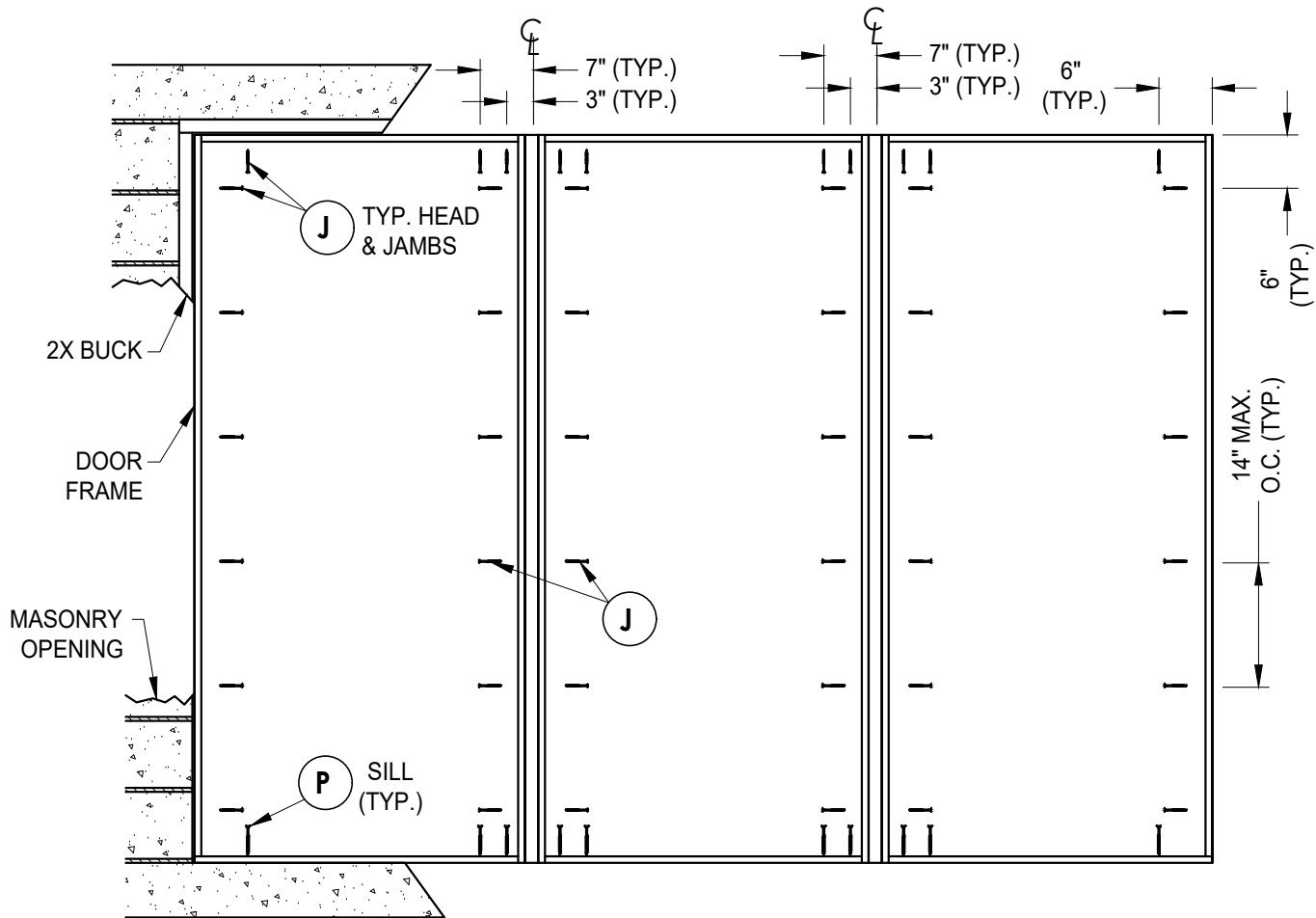


BUCK ANCHORING

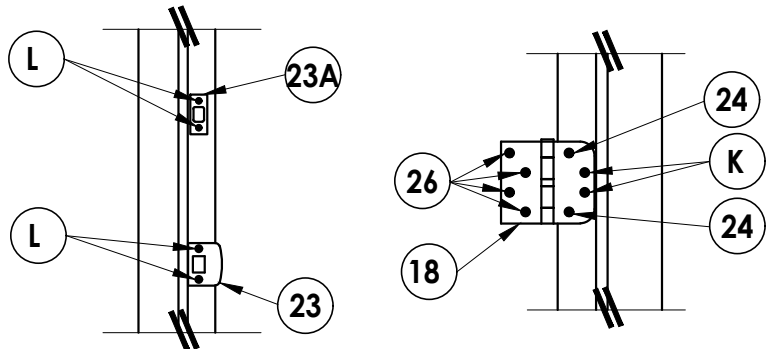


HINGE JAMB

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:	7/17/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17901.3
SHEET	<u>7</u> OF <u>9</u>

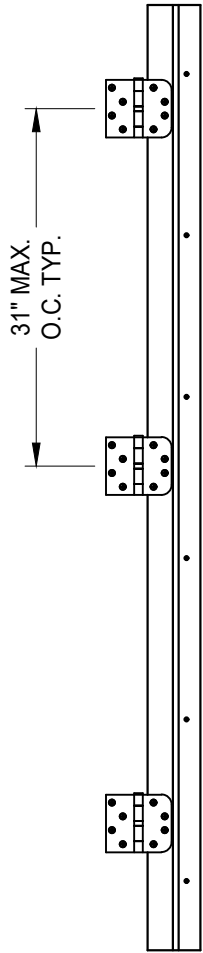
Documents Prepared By:
Lyndon F. Schmidt
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BUILDING CONSULTANTS, INC.

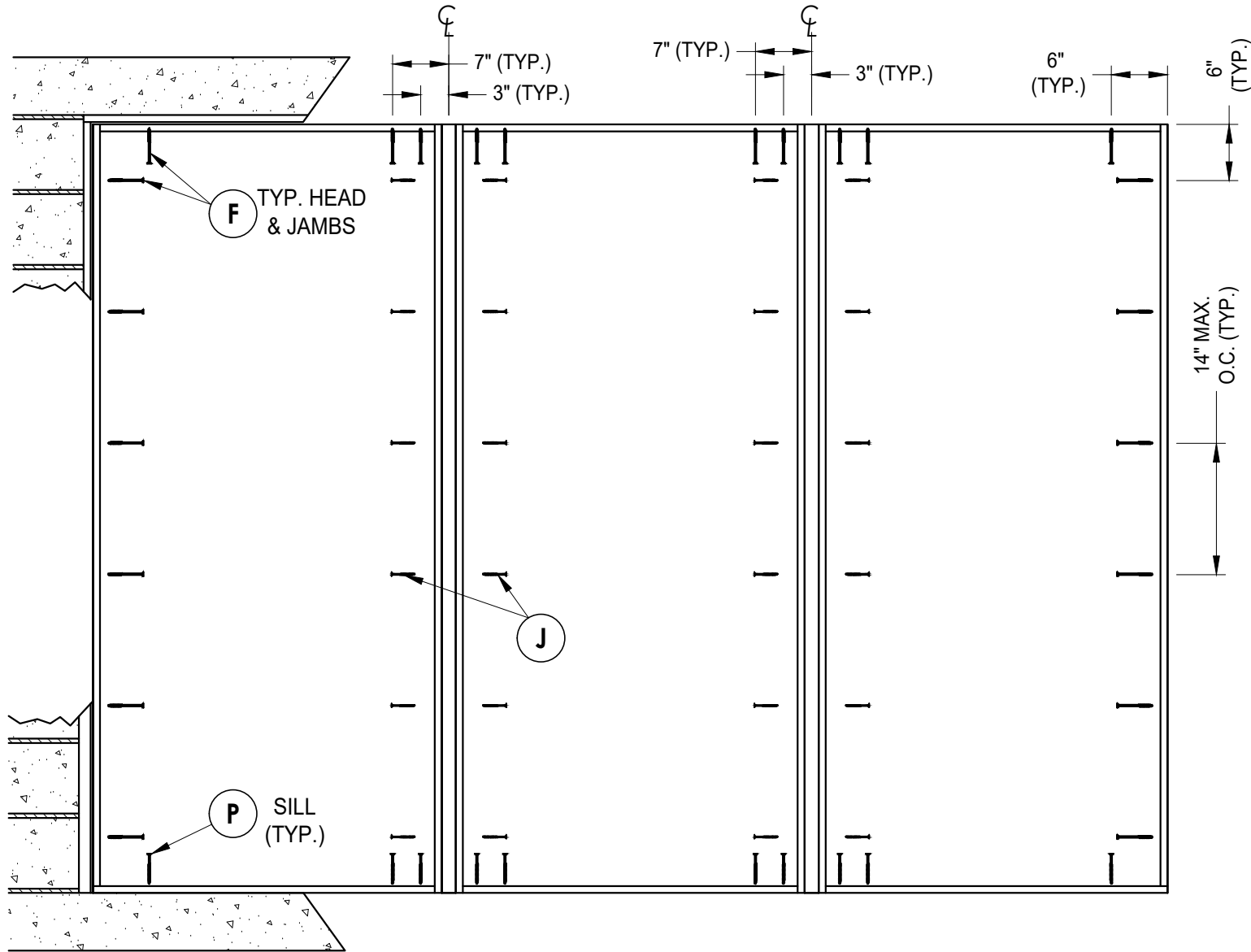
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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

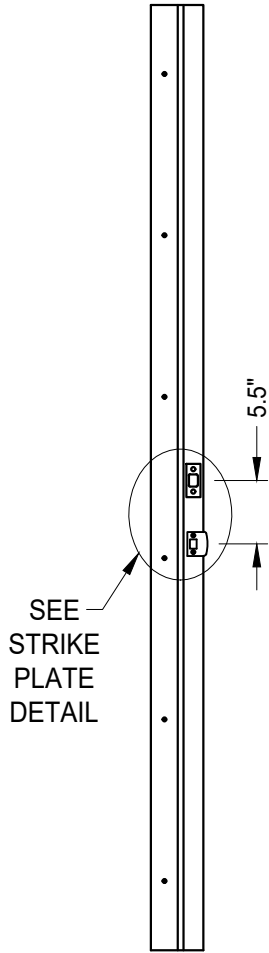
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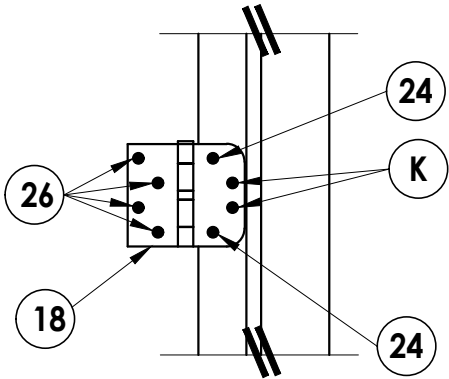
HINGE JAMB



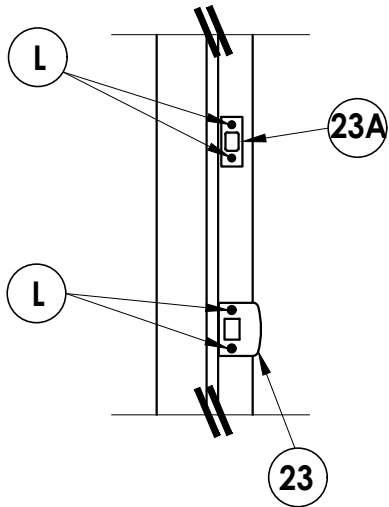
FRAME ANCHORING
Masonry 1X buck construction



STRIKE JAMB



HINGE DETAIL



STRIKE PLATE DETAIL

DATE: 7/17/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17901.3

SHEET 8 OF 9

PRODUCT:

STEVES AND SONS

PART OR ASSEMBLY:

FRAME ANCHORING
1X BUCK MASONRY CONSTRUCTION

Documents Prepared By:

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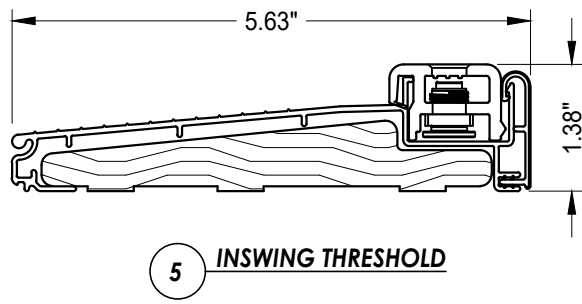
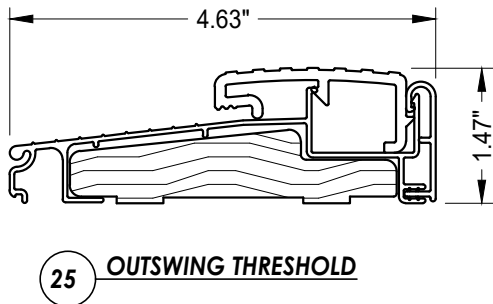
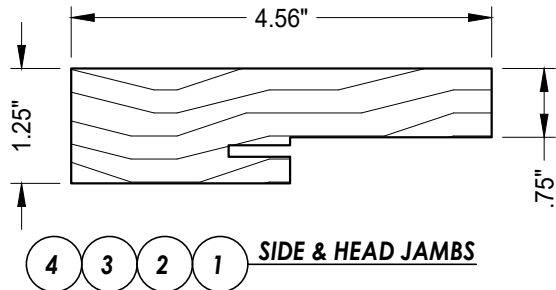
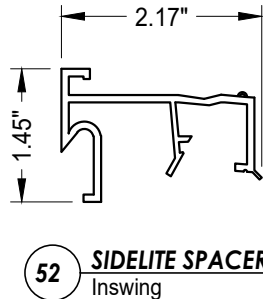
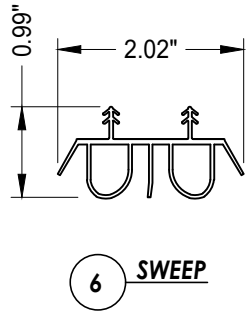
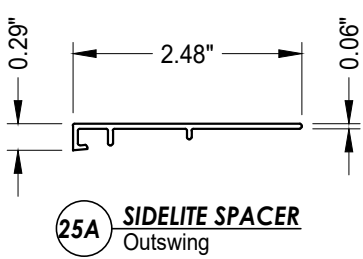
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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" ITW PFH CONCRETE SCREW	STEEL
G	MAX. 1/4" SHIM SPACE	-
H	1/4" X 3-1/4" ITW PFH CONCRETE SCREW	STEEL
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" PFH ITW 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	3.983" X 4.0" HINGE MIN 0.098" THICK	STEEL
21	PASSAGE LOCK - KWIKSET SERIES	STEEL
22	DEADBOLT - KWIKSET SERIES (660)	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 STILE - SG >= 0.42	LVL/PVC
31	LVL LOCK BLOCK	POPLAR
32	HINGE STILE - SG >= 0.42	LVL/PVC
33	TOP RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
34	BOTTOM RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
39	FIBERGLASS SKIN 0.079" MIN. THICKNESS (Fy = 5,200 PSI MIN.)	FIBERGLASS
44	LITE FRAME (ODL)	ALUM.
45	LITE FRAME (RSL)	PVC
46	DOOR PANEL FOAMED CORE	POLYSTYRENE
52	SIDELITE SPACER - INSWING	PVC
62	QUARTER ROUND	WOOD
68	2X MULLION REINFORCEMENT - SG>= 0.42	WOOD
69	LITE OPENING STILE REINF. - 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:
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FBPE Registry No. 9813

PRODUCT:

STEVES AND SONS

PART OR ASSEMBLY:

BILL OF MATERIALS
& COMPONENTS

DATE: 7/17/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17901.3

SHEET 9 OF 9