



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

OPAQUE FIBERGLASS DOOR

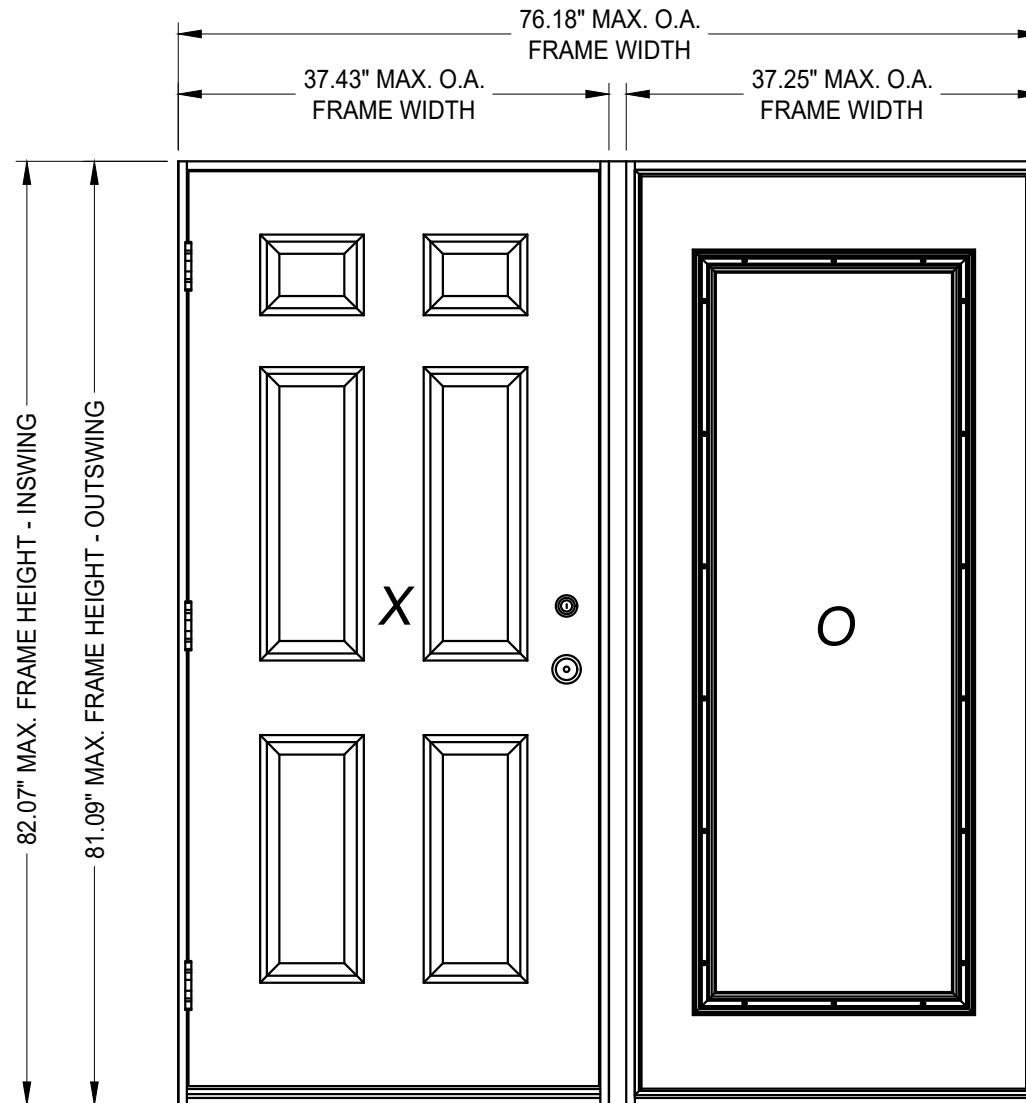
INSWING / OUTSWING

"IMPACT"

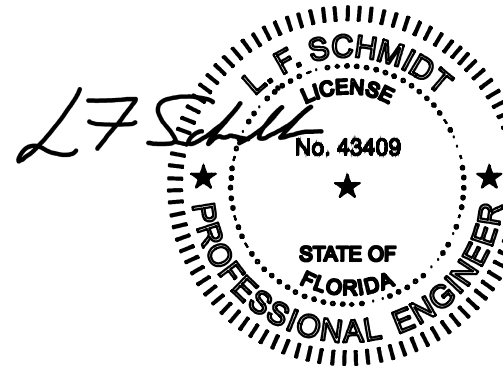
GENERAL NOTES

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 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 construction details
3	Sidelite panel construction details
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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



SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	76.18" x 82.07"	G1, G2	+55.0	-60.0
OUTSWING	76.18" x 81.09"		+55.0	-55.0



Digitally signed by Lyndon F Schmidt
Date: 2023.08.08 07:23:51 -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

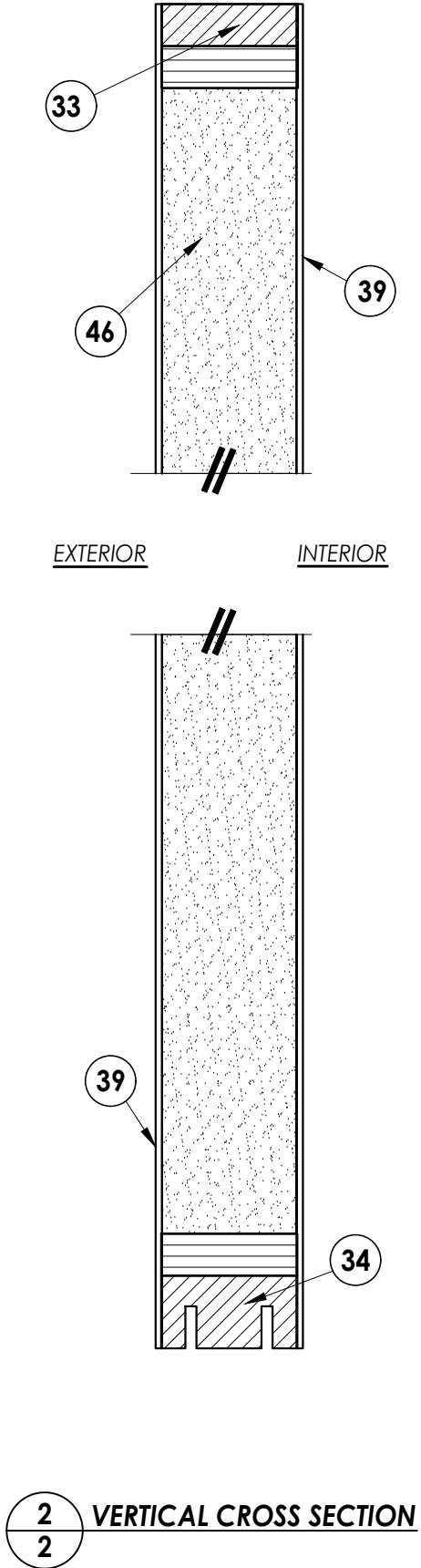
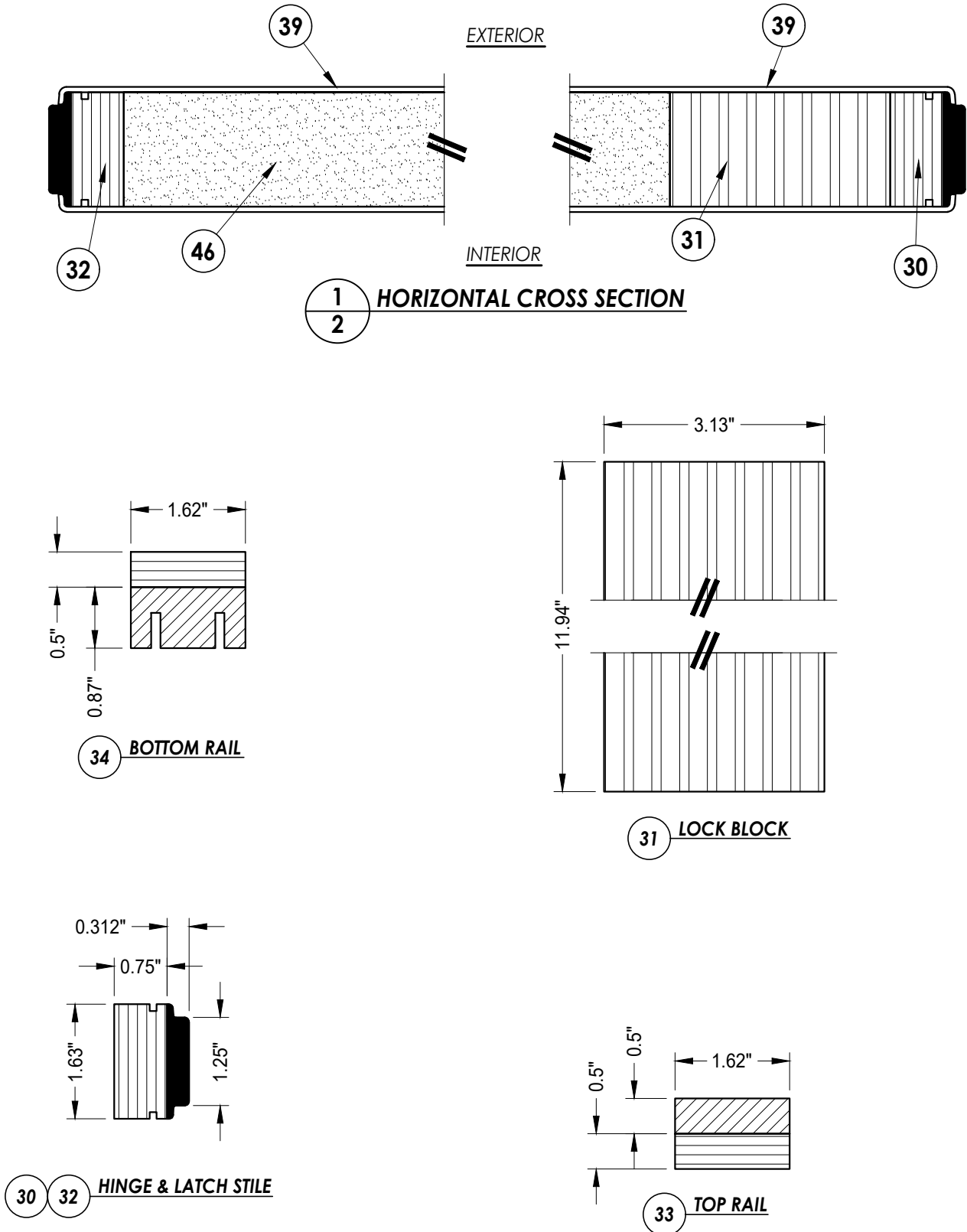
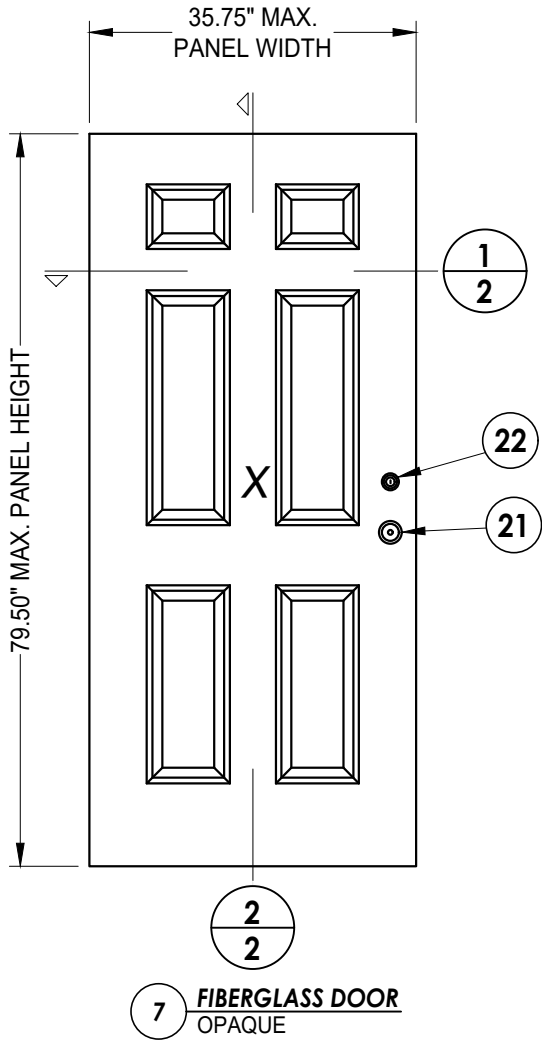
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: STEVE'S AND SONS
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS			
		DATE	BY	CHK.	APP.
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-17901.2
SHEET 1 OF 9

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REVISIONS			
NO.	DATE	BY	JK
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-17901.2

SHEET 2 OF 9

PRODUCT:

STEVES AND SONS

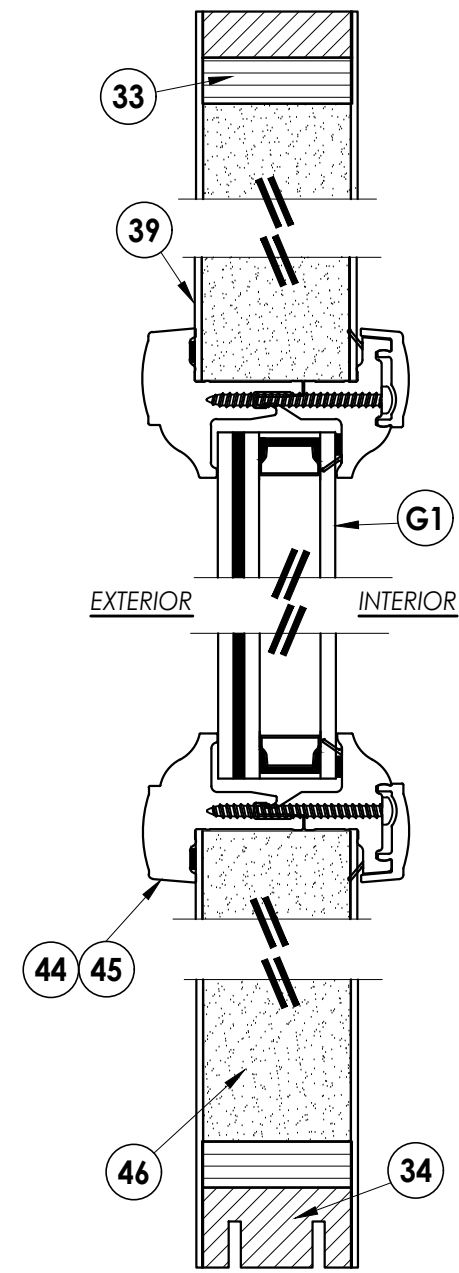
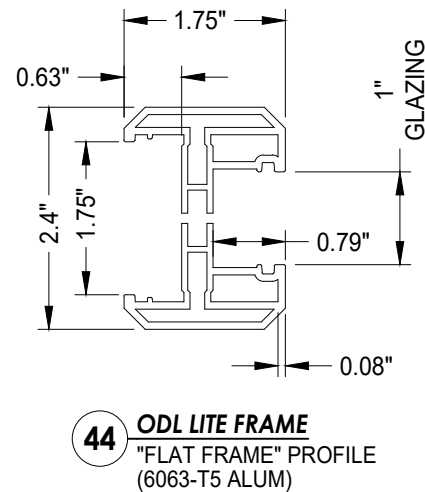
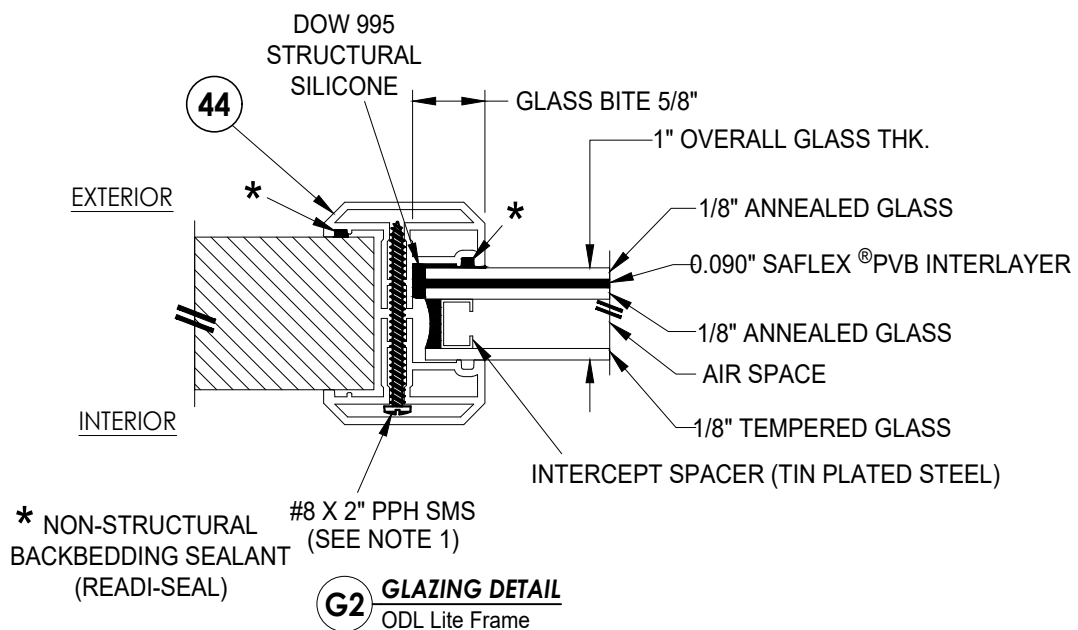
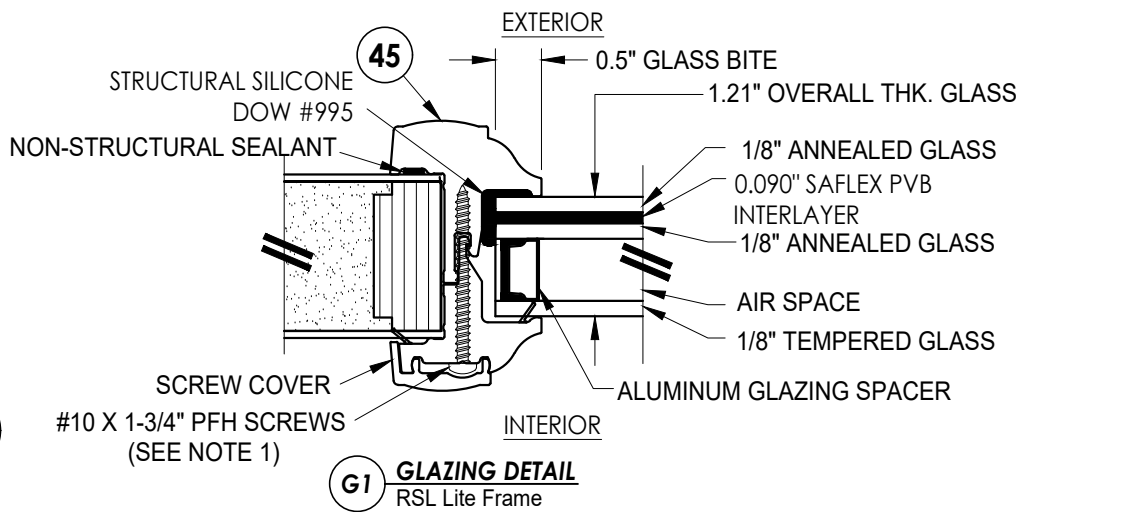
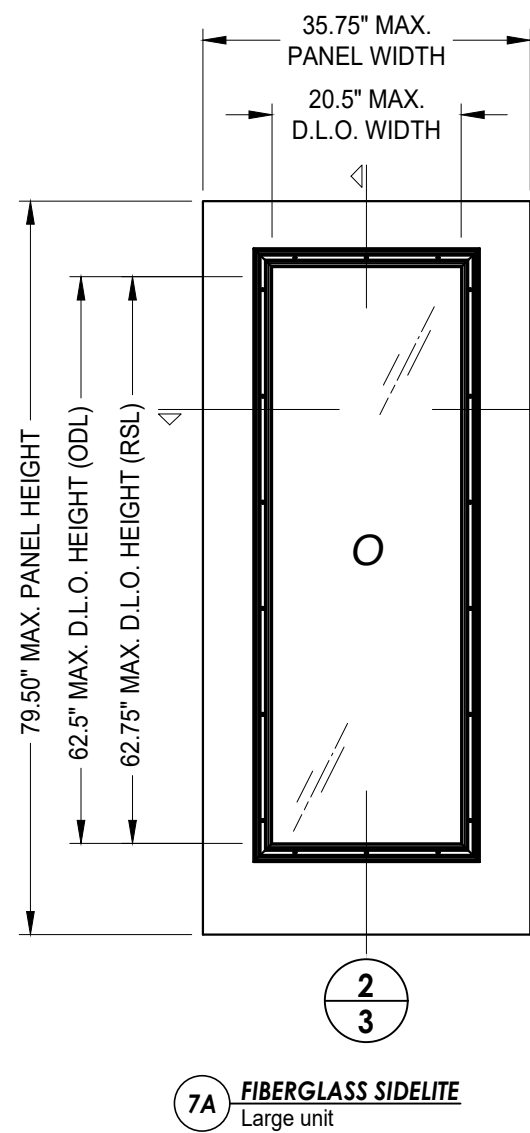
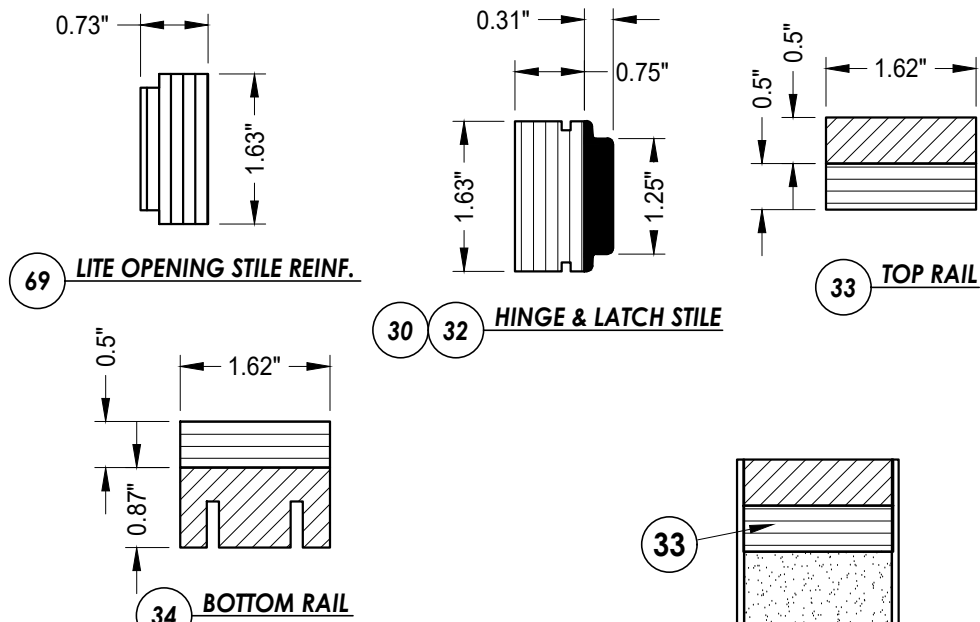
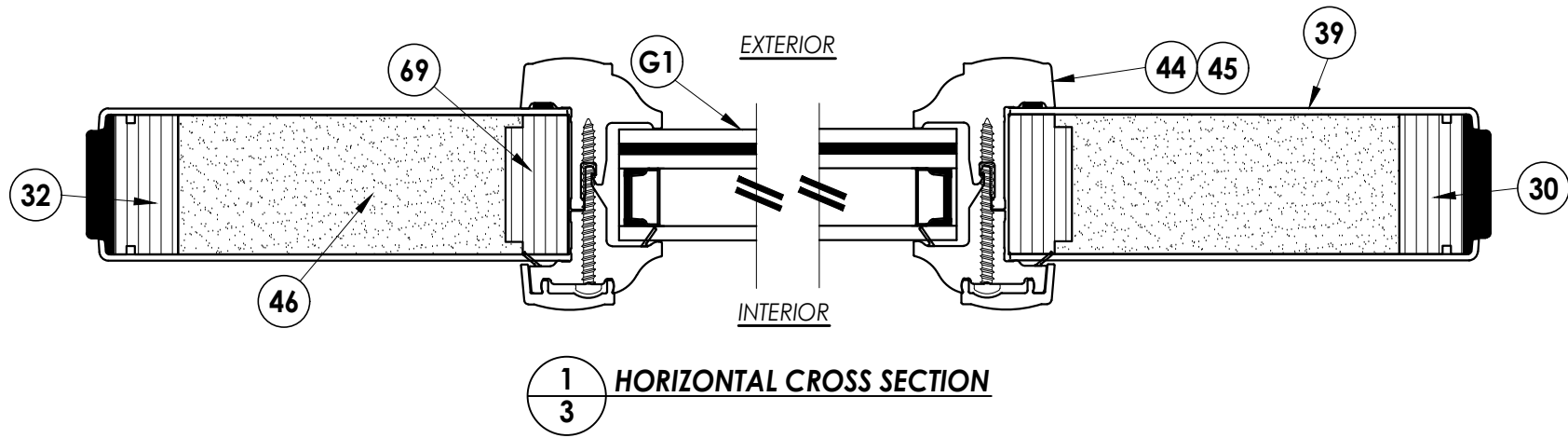
PART OR ASSEMBLY:

DOOR PANEL CONSTRUCTION
DETAILS

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

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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
2	9/16/20	UPDATE TO 7TH ED. (2020) FBC
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC
JK		
BY		

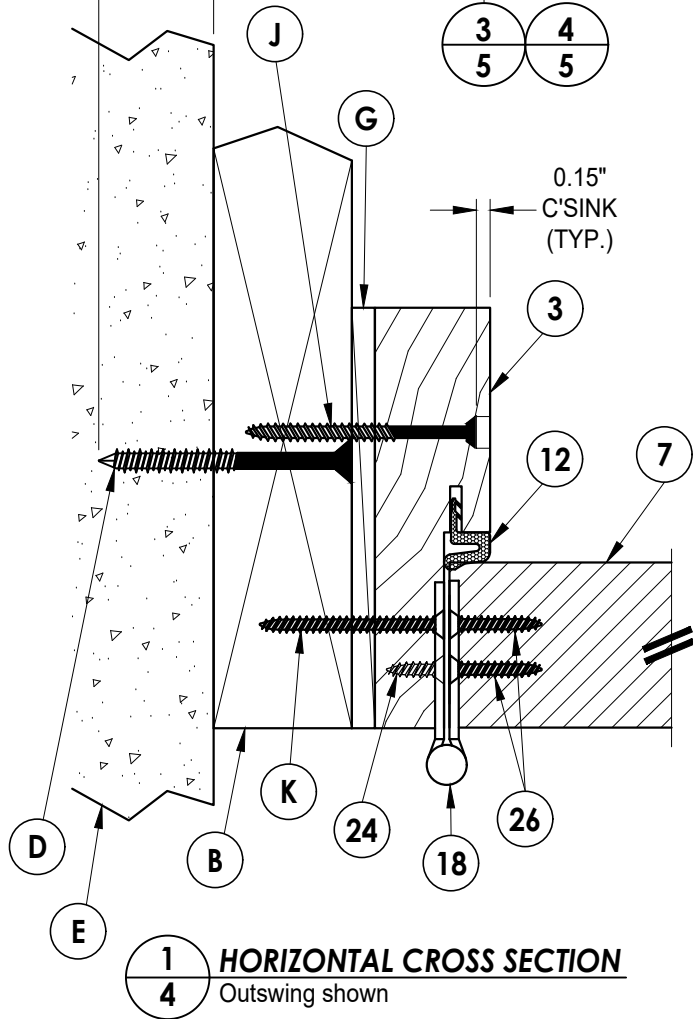
DATE: 7/17/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-17901.2
SHEET 3 OF 9

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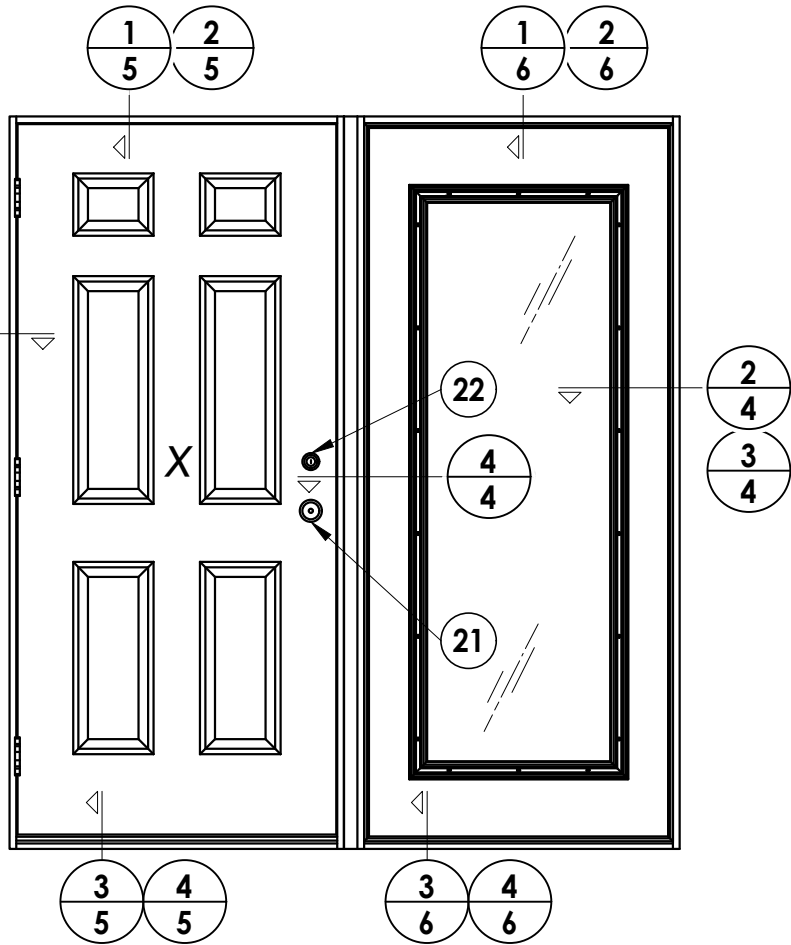
NOTE:

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

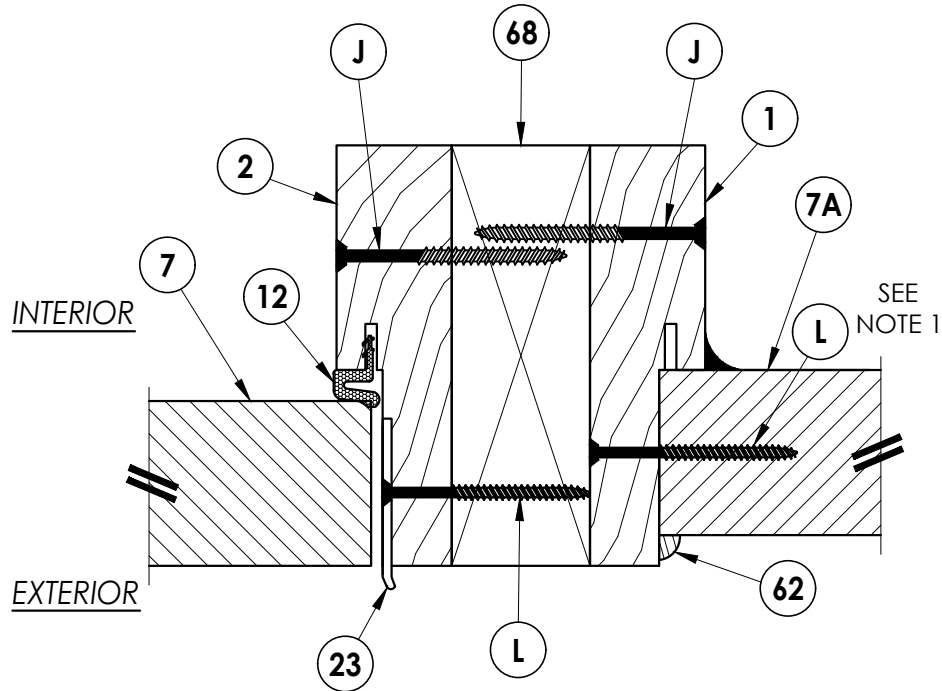
1-1/4" MIN.
EMB. (TYP.)



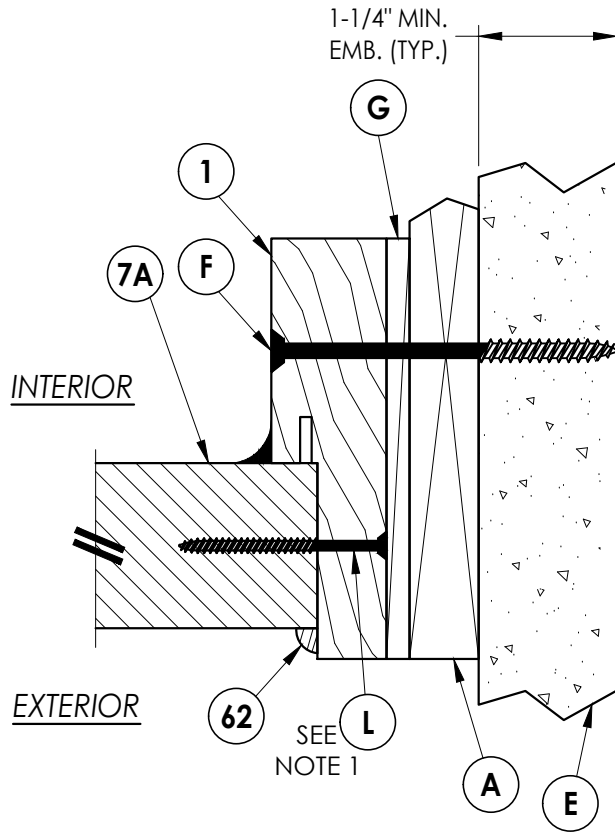
1
4 HORIZONTAL CROSS SECTION
Outswing shown



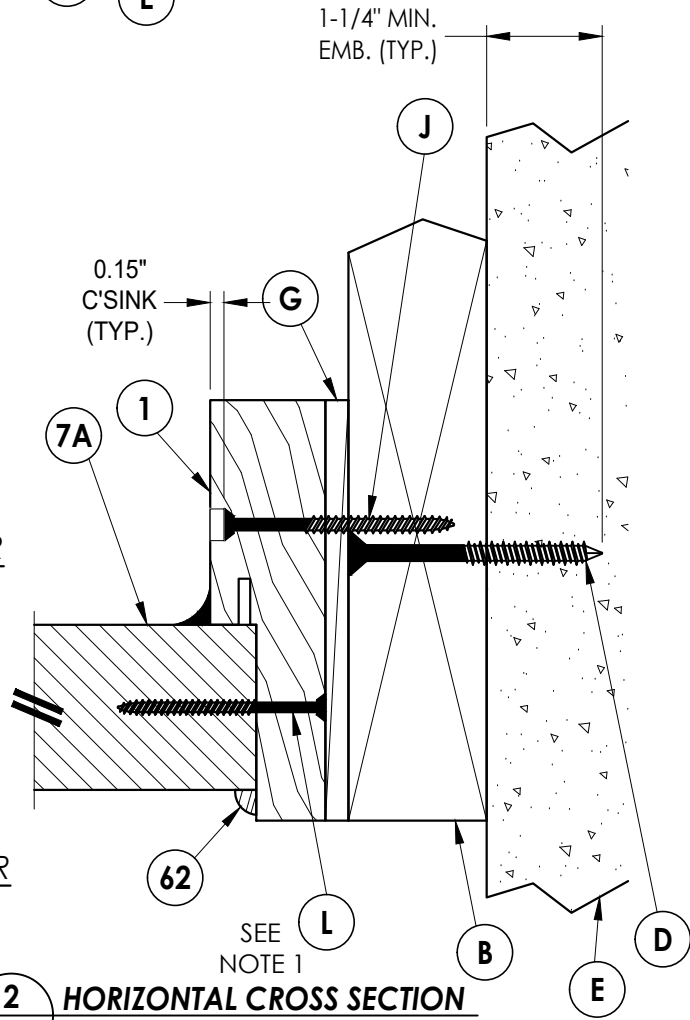
4
4 HORIZONTAL CROSS SECTION



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



2
4 HORIZONTAL CROSS SECTION
Outswing shown



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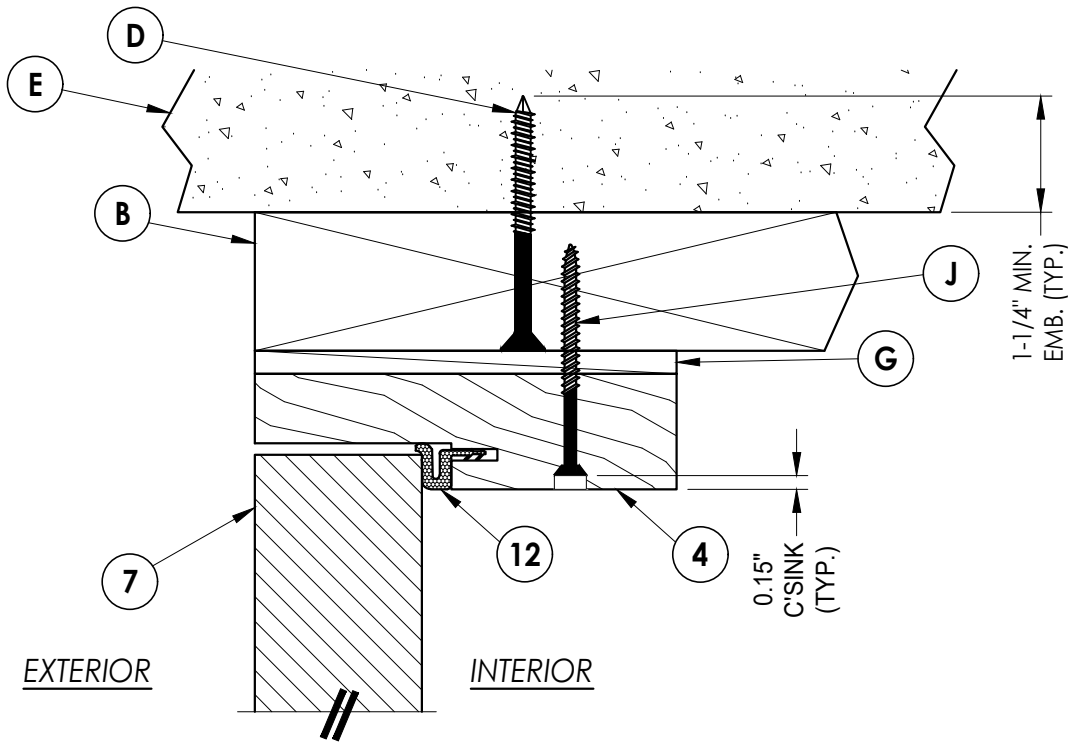
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PRODUCT:	
STEVES AND SONS	
PART OR ASSEMBLY:	
HORIZONTAL CROSS SECTIONS	

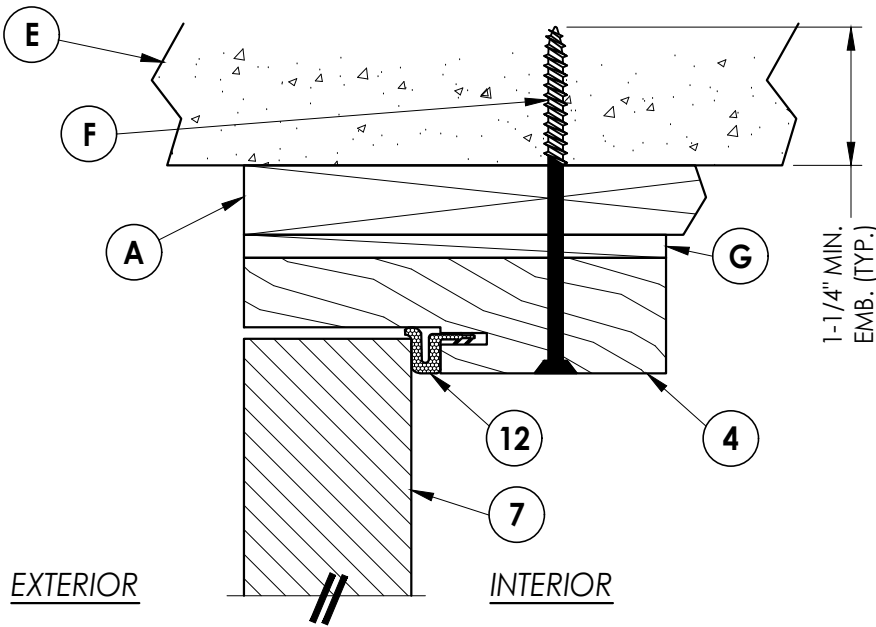
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2	9/16/20
1	10/08/17

DATE:	7/17/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17901.2
SHEET	4 OF 9

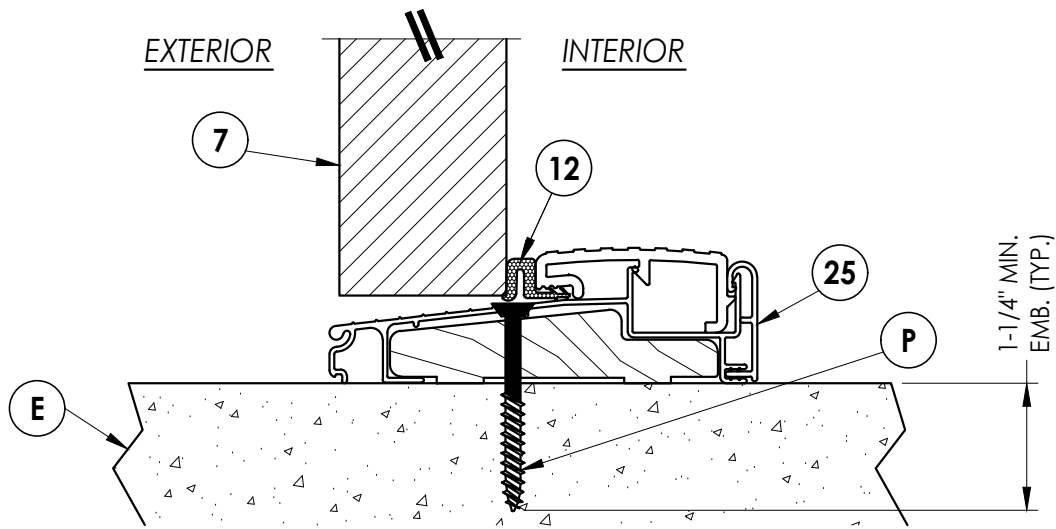
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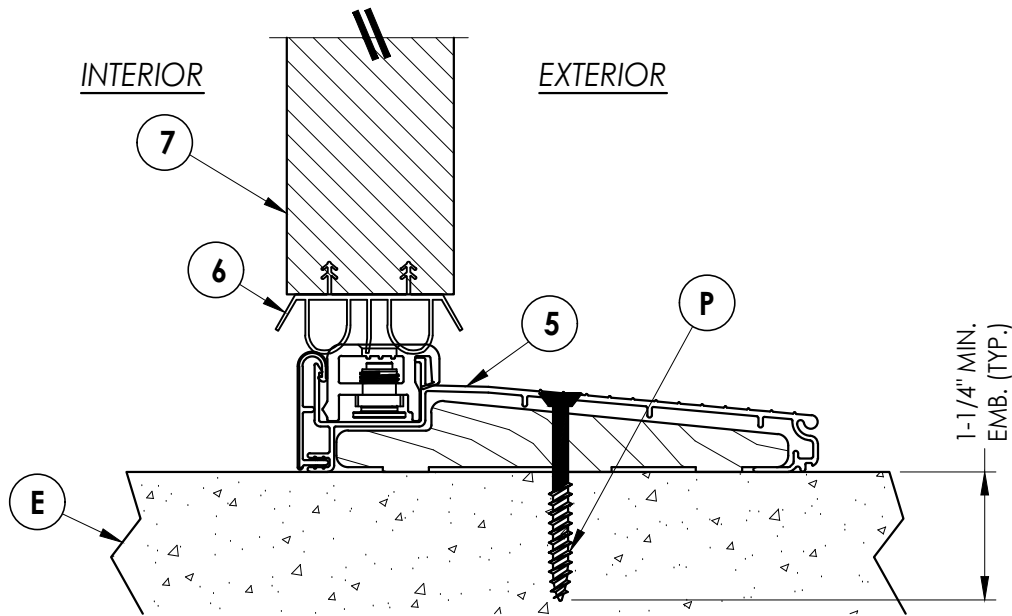
1 **VERTICAL CROSS SECTION**
5 Outswing shown



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



3 **VERTICAL CROSS SECTION**
5 Outswing sill



4 **VERTICAL CROSS SECTION**
5 Inswing sill

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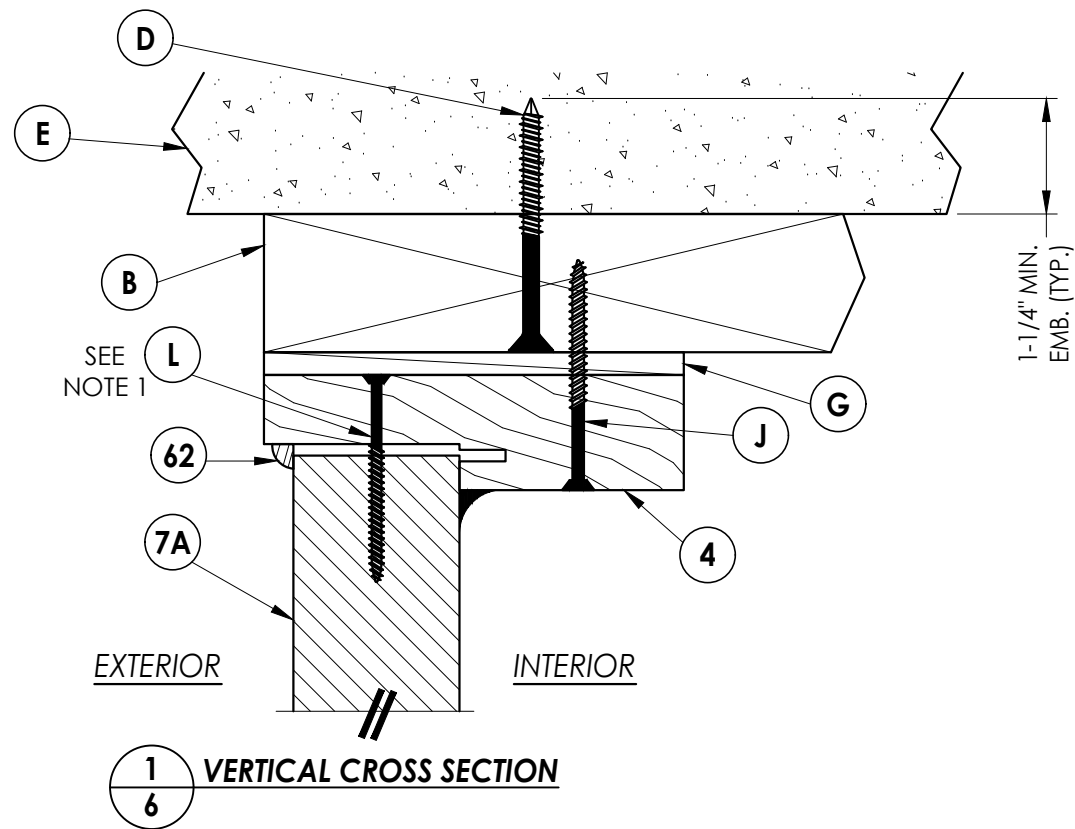
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PRODUCT:
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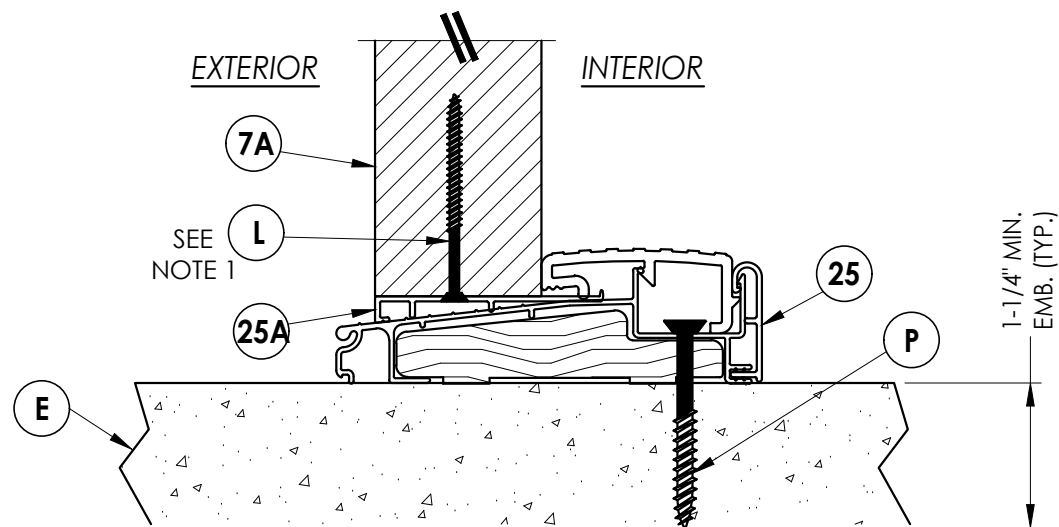
PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

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
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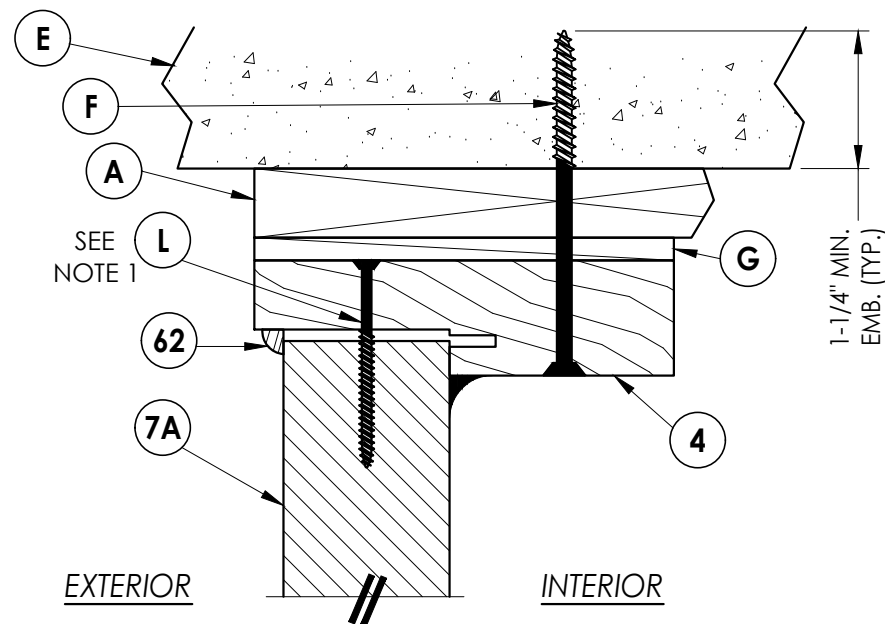
DATE: 7/17/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17901.2
SHEET 5 OF 9



3 6 **VERTICAL CROSS SECTION** Outswing sill



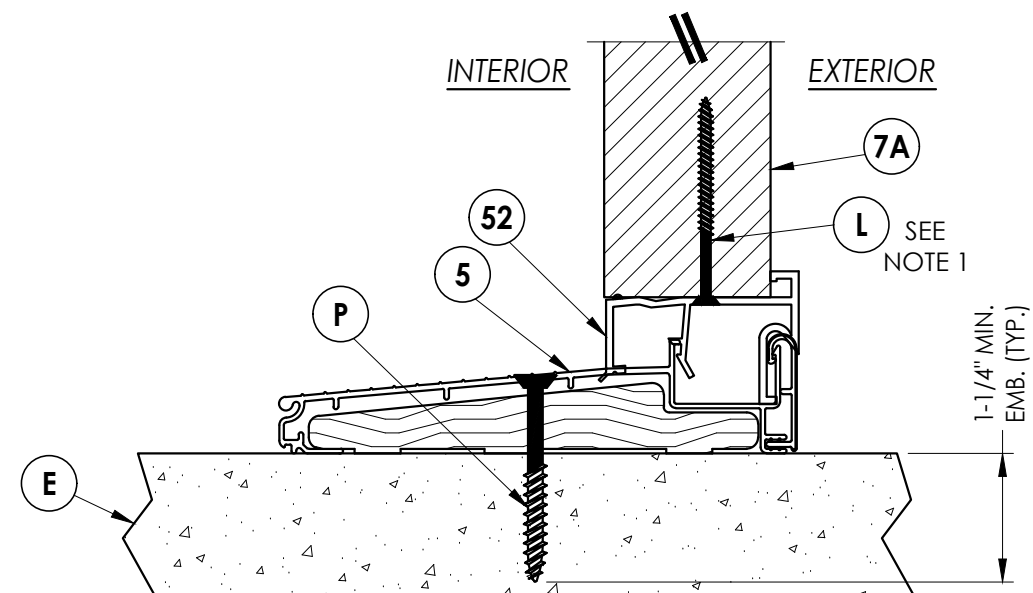
4 **VERTICAL CROSS SECTION**
6 Inswing sill



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

NOTE:

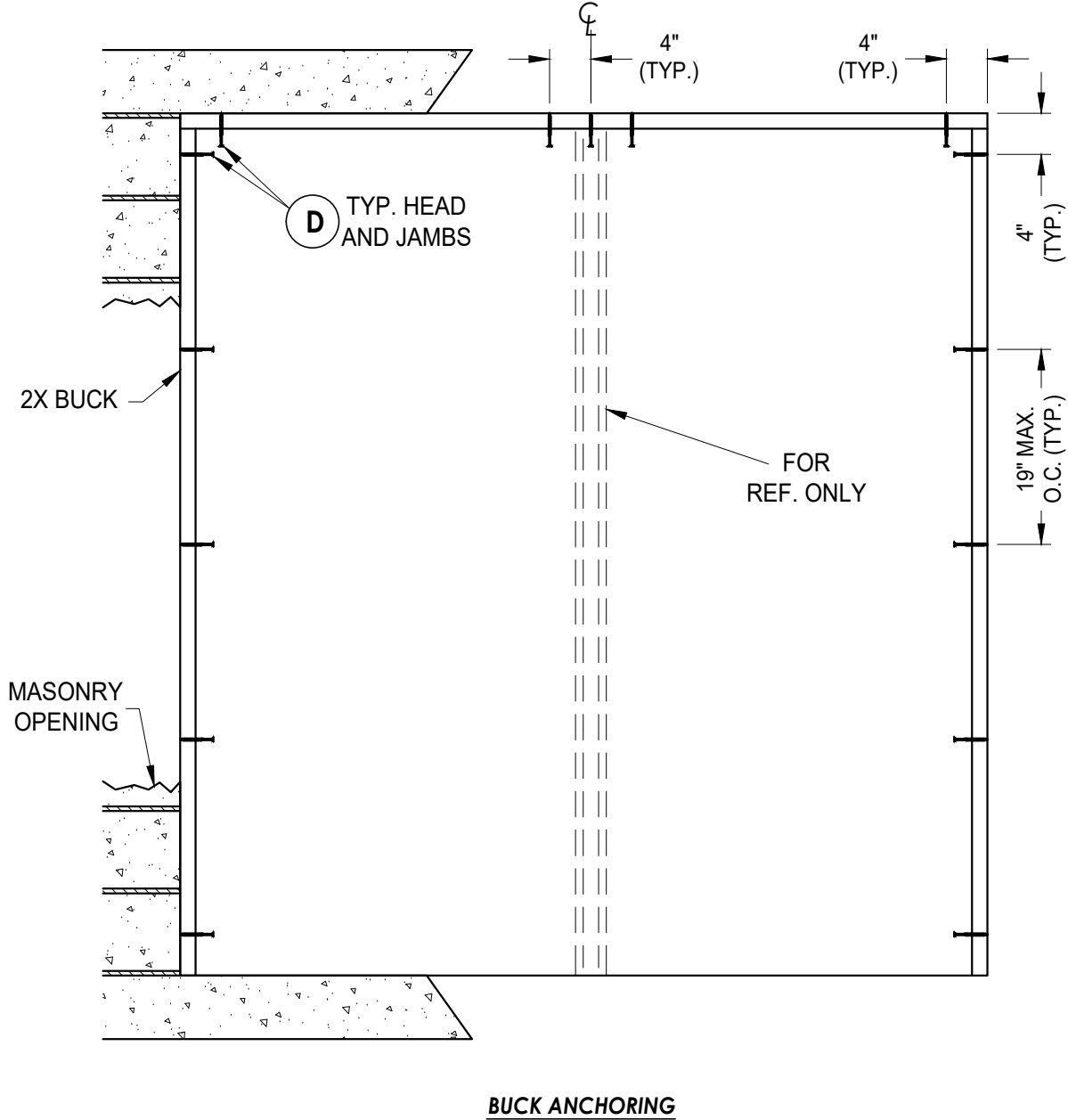
1. Screws thru head and sill jamb located 3" from each end and on centerline.

[illegible]

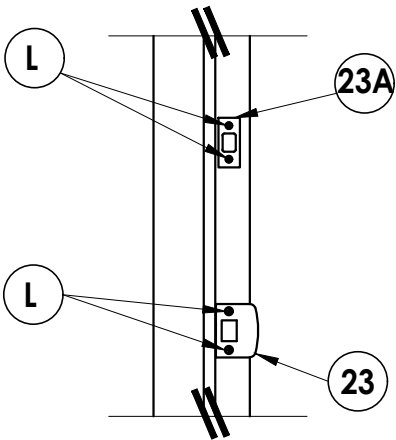
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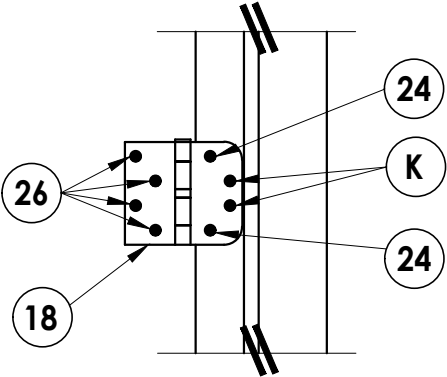
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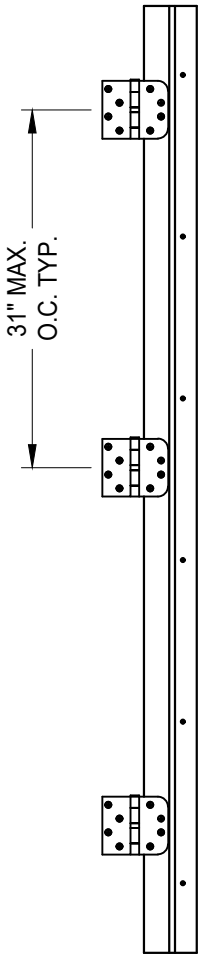
BUCK ANCHORING



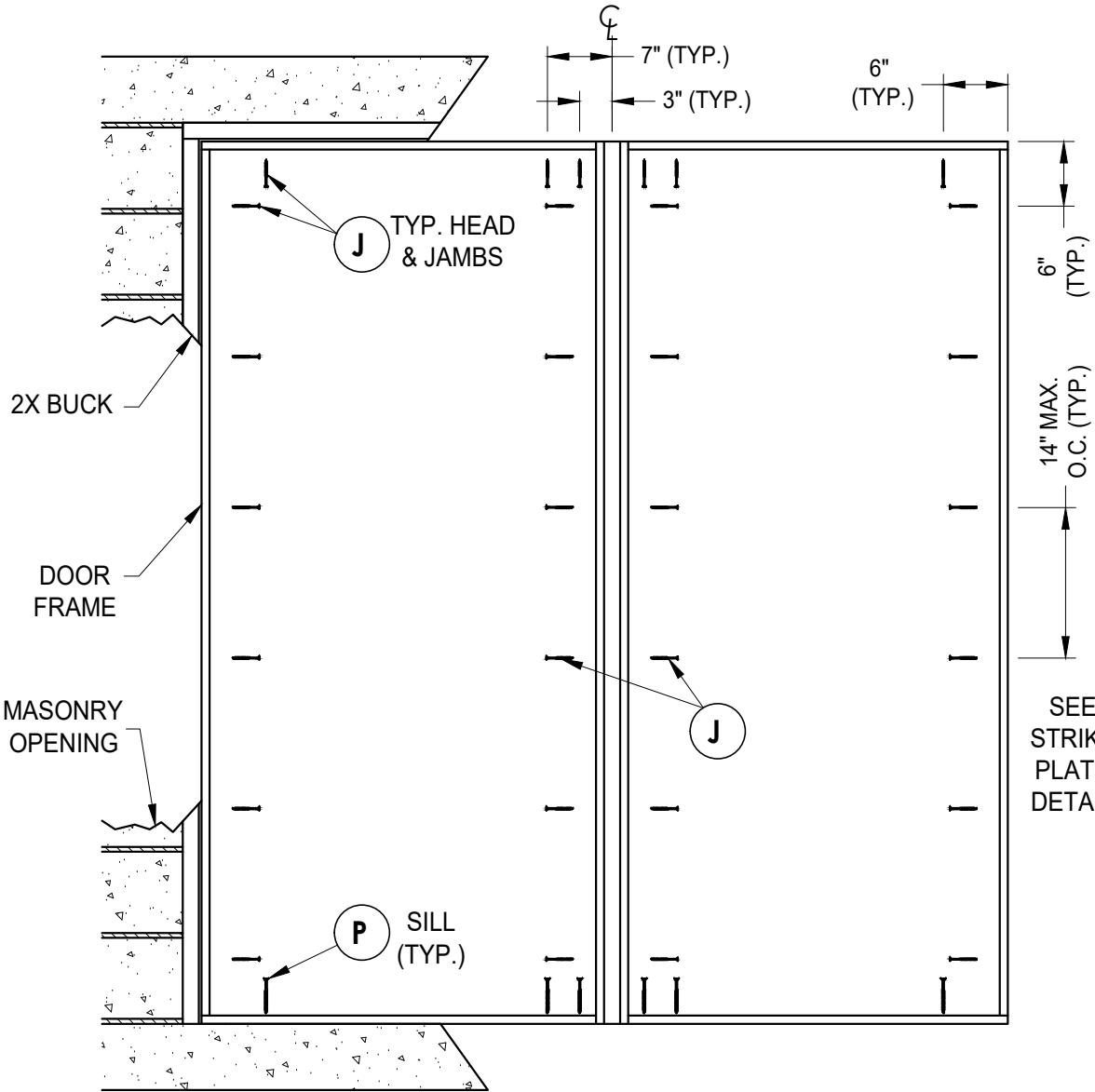
STRIKE PLATE DETAIL



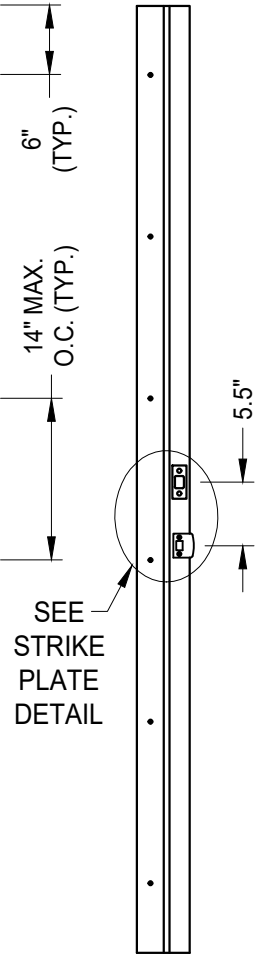
HINGE DETAIL 1



HINGE JAMB



FRAME ANCHORING
Masonry 2X buck construction



STRIKE JAMB

DATE		BY		REVISIONS	
3	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
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NO.	DATE			BY	

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CHK. BY: LFS

DRAWING NO.:

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SHEET 7 OF 9

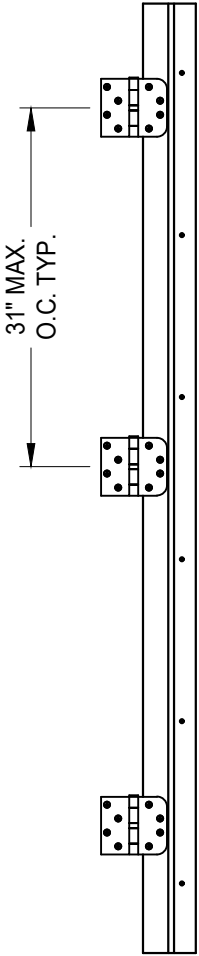
PRODUCT:
STEVES AND SONS

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

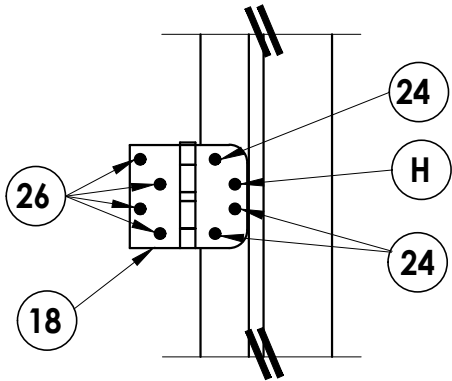
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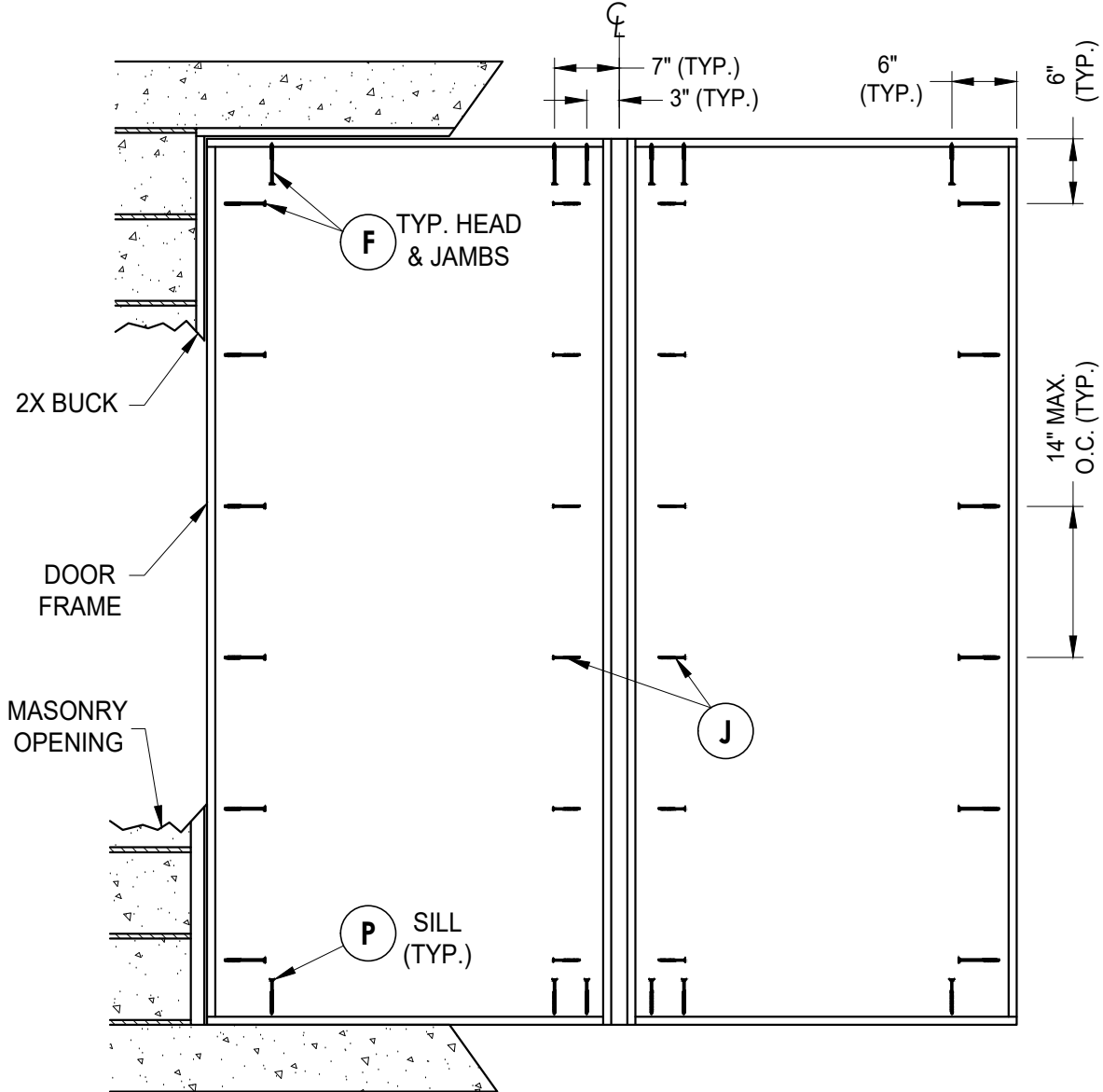
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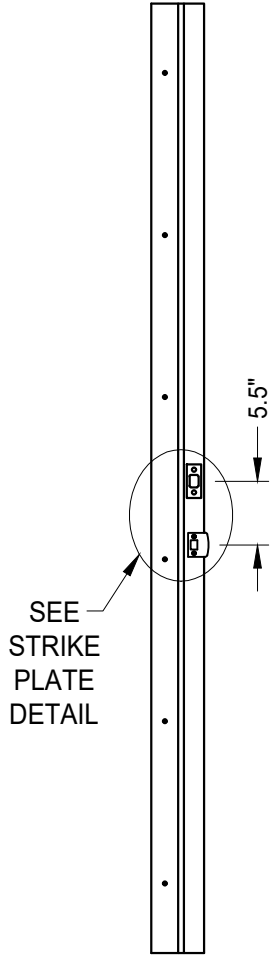
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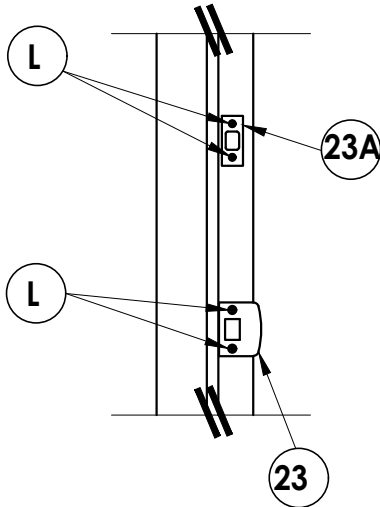
HINGE DETAIL



FRAME ANCHORING
Masonry 1X buck construction



STRIKE JAMB

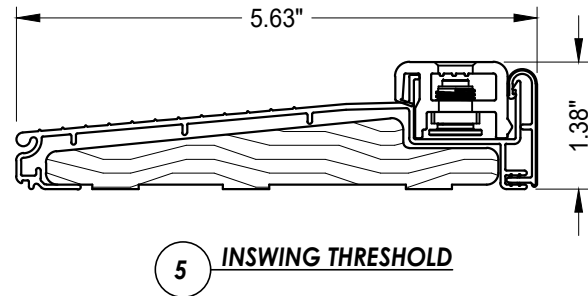
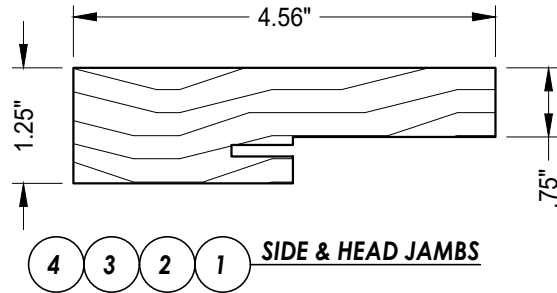
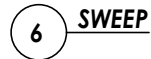
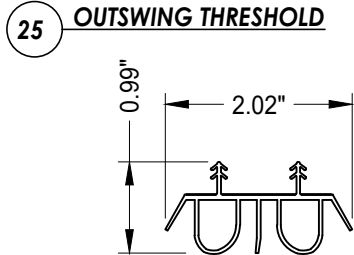
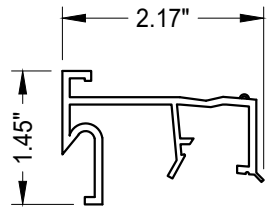
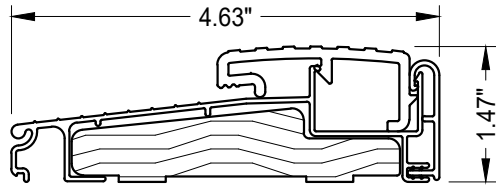
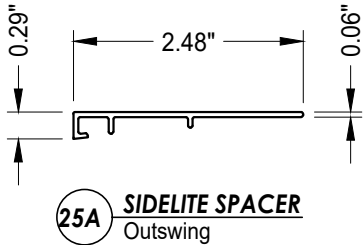


STRIKE PLATE DETAIL

DATE: 7/17/15		DRAWING NO.: FL-17901.2		SHEET 8 OF 9	
SCALE: N.T.S.		CHK. BY: LFS		DWG. BY: JK	
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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		R.W.		FRAME ANCHORING	
1X BUCK MASONRY CONSTRUCTION					

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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 CONST. 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.

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PRODUCT:

STEVES AND SONS

PART OR ASSEMBLY:

BILL OF MATERIALS
& COMPONENTS

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DWG. BY: JK

CHK. BY: LFS

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