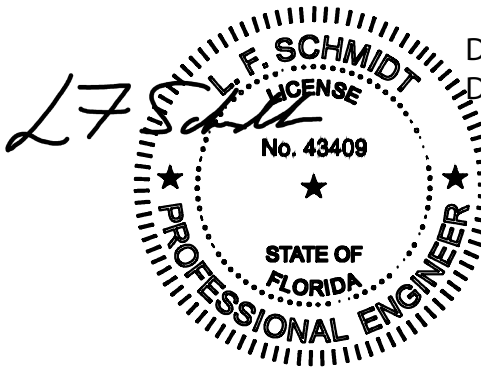




OPAQUE FIBERGLASS DOOR
INSWING / OUTSWING
"IMPACT"

1. This product anchoring drawing has been evaluated and is in compliance with the 9th Edition (2026) 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.

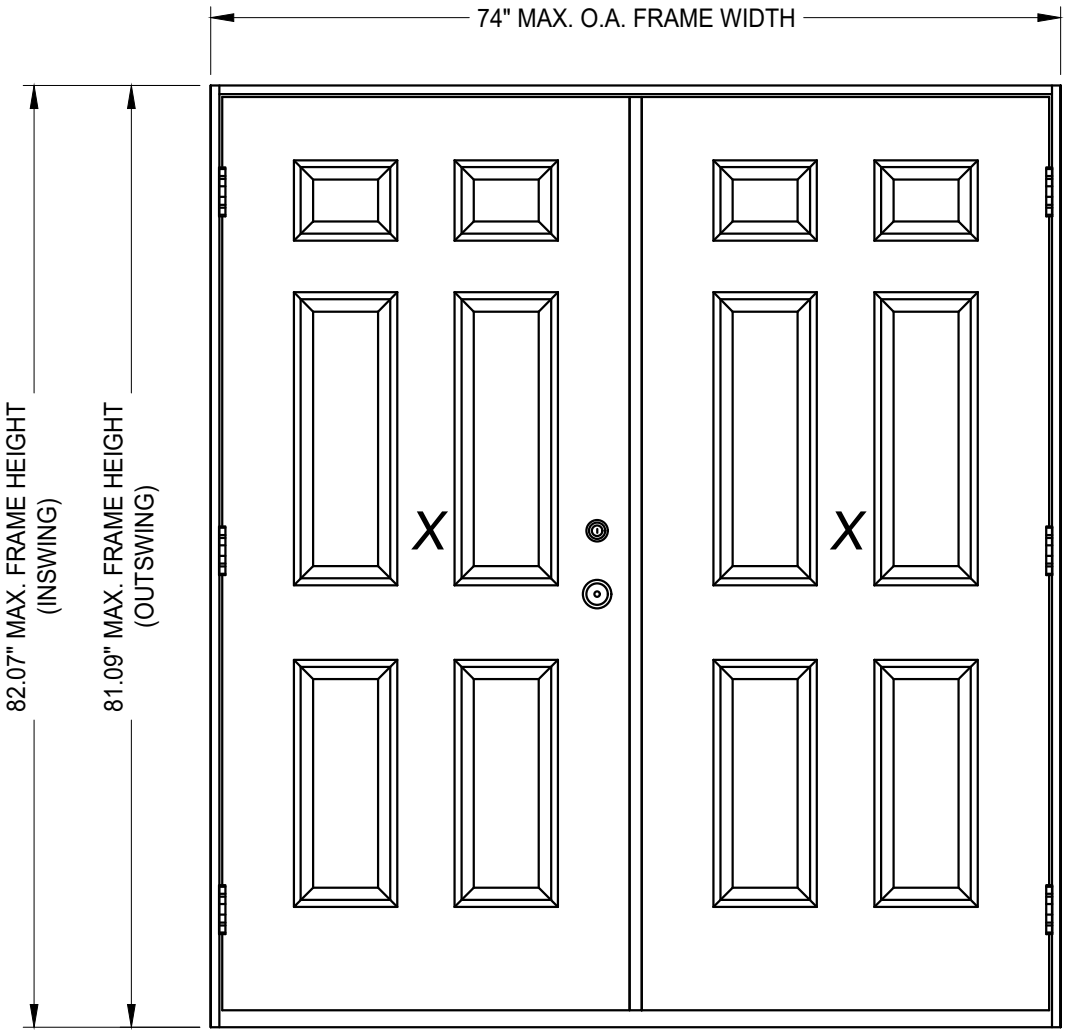
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details
3	Horizontal cross sections
4	Vertical cross sections
5	Buck anchoring
6	Frame anchoring - 2X buck masonry construction
7	Frame anchoring - 1X buck masonry construction
8	Astragal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



Digitally signed by Lyndon F Schmidt
Date: 2026.07.07 15:04:39 -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

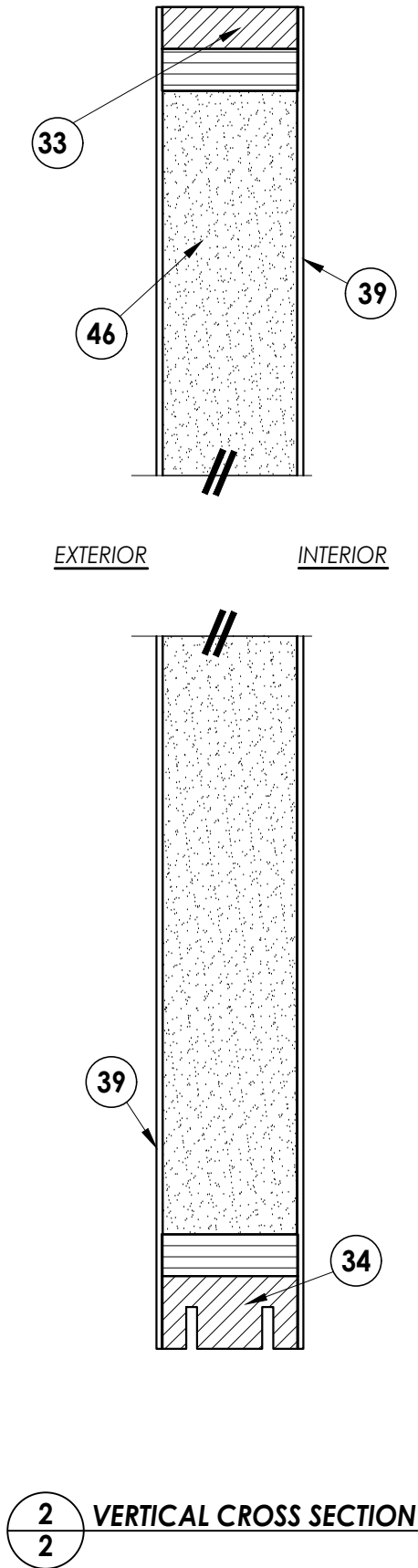
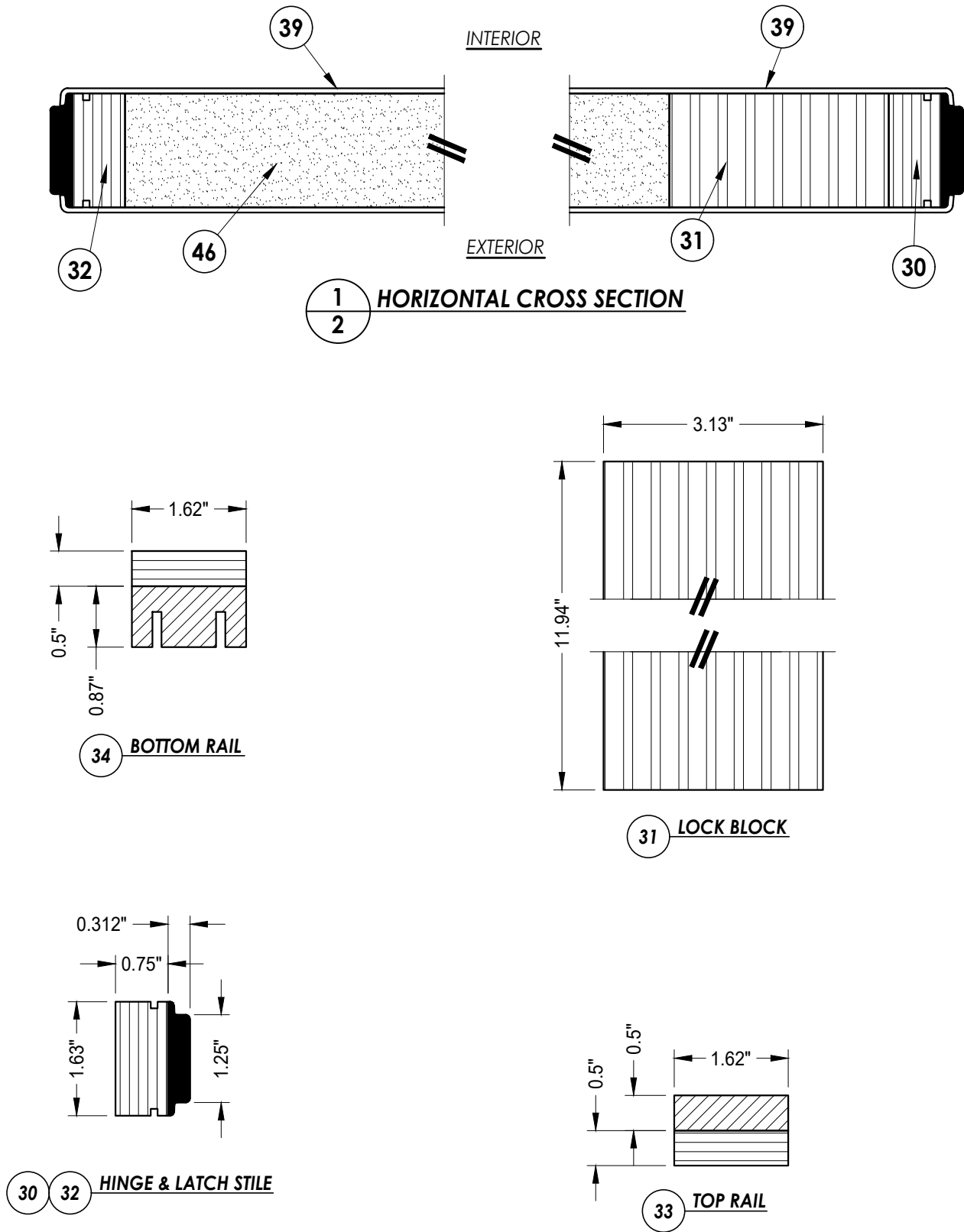
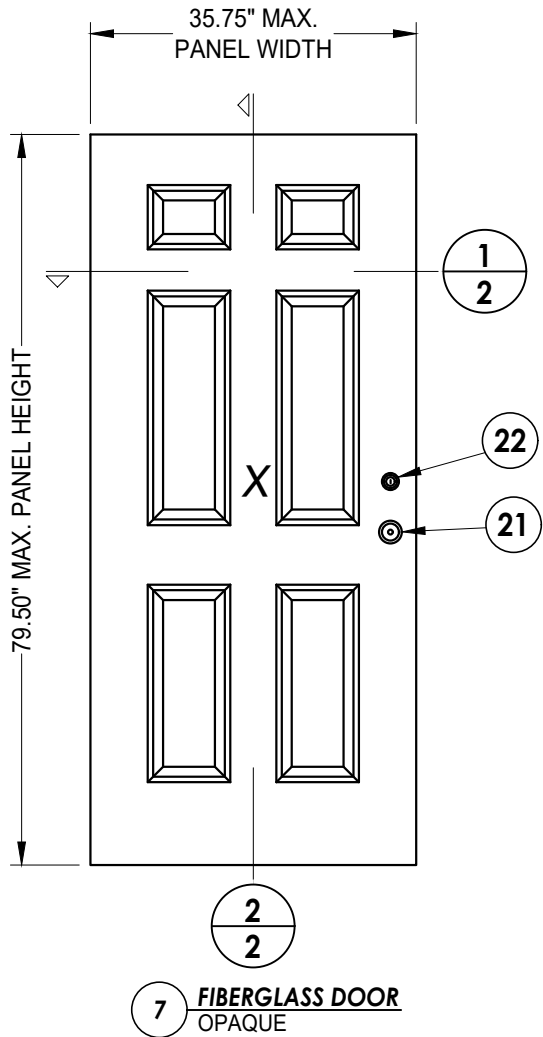


ASTRAGAL TYPE	SWING	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
ENDURA	INSWING	74.00" x 82.07"	+50.0	-55.0
	OUTSWING	74.00" x 81.09"	+50.0	-50.0

PRODUCT:		STEVED AND SONS										PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES									
				4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS													
				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-17901.4																					
SHEET 1 OF 9																					

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



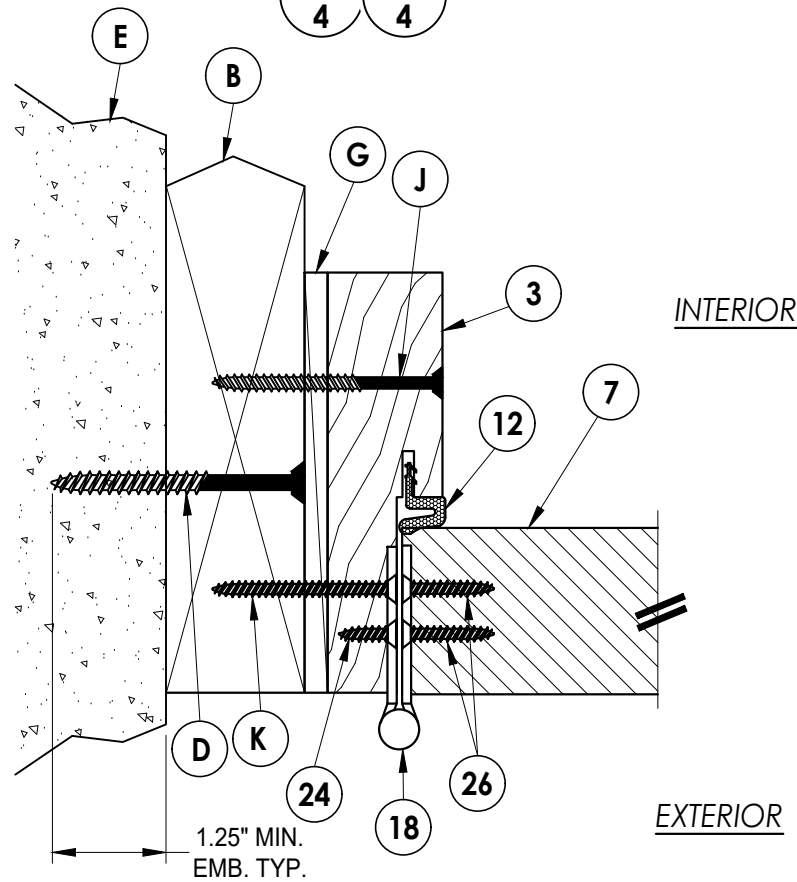
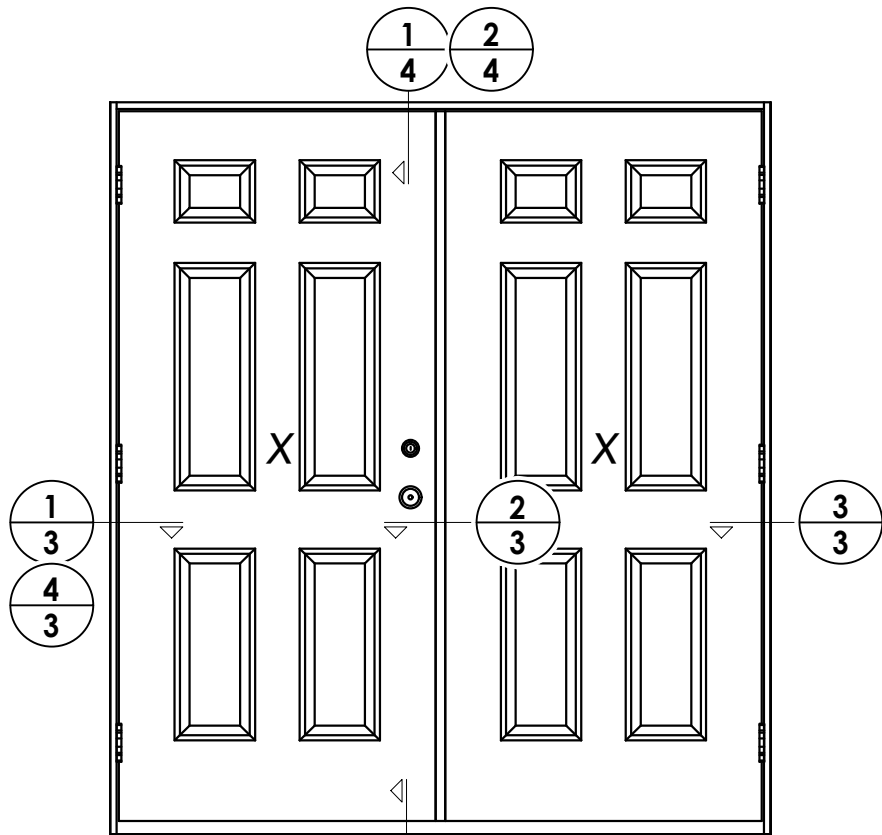
DATE:		7/17/15
SCALE:		N.T.S.
DWG. BY:		JK
CHK. BY:		LFS
DRAWING NO.:		FL-17901.4
SHEET		2 OF 9

PRODUCT:		STEVED AND SONS
PART OR ASSEMBLY:		DOOR PANEL CONSTRUCTION DETAILS

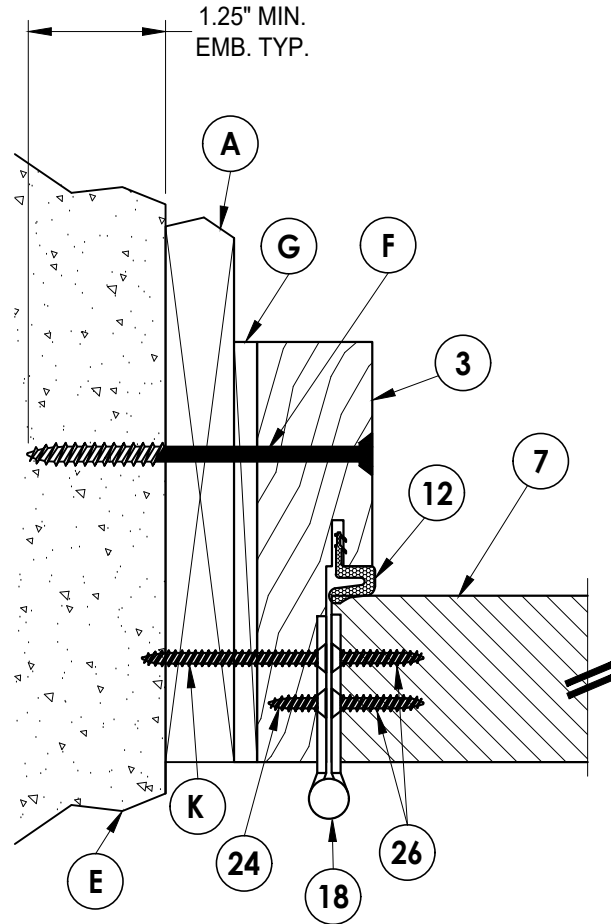
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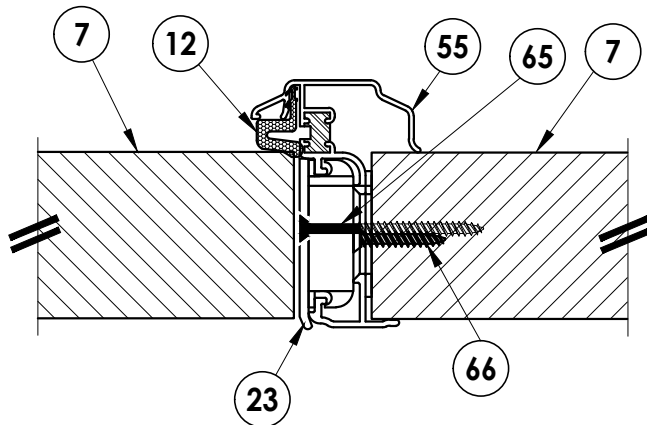
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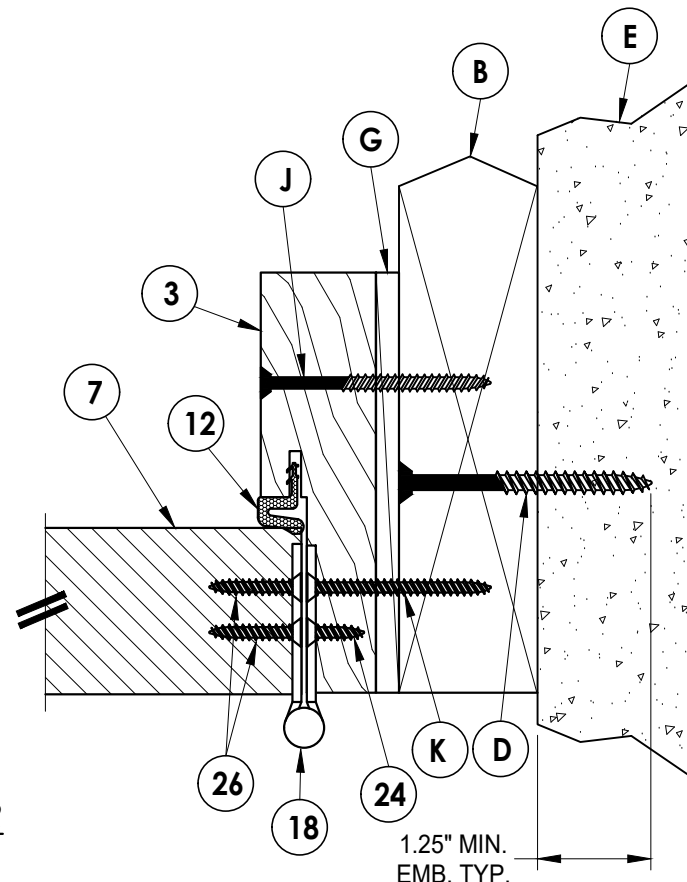
1
3 HORIZONTAL CROSS SECTION



4
3 HORIZONTAL CROSS SECTION



2
3 HORIZONTAL CROSS SECTION



3
3 HORIZONTAL CROSS SECTION

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:
STEVED AND SONS

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

			LFS	FBC	
4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC		
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
NO.	DATE				

DATE: 7/17/15

SCALE: N.T.S.

DWG. BY: JK

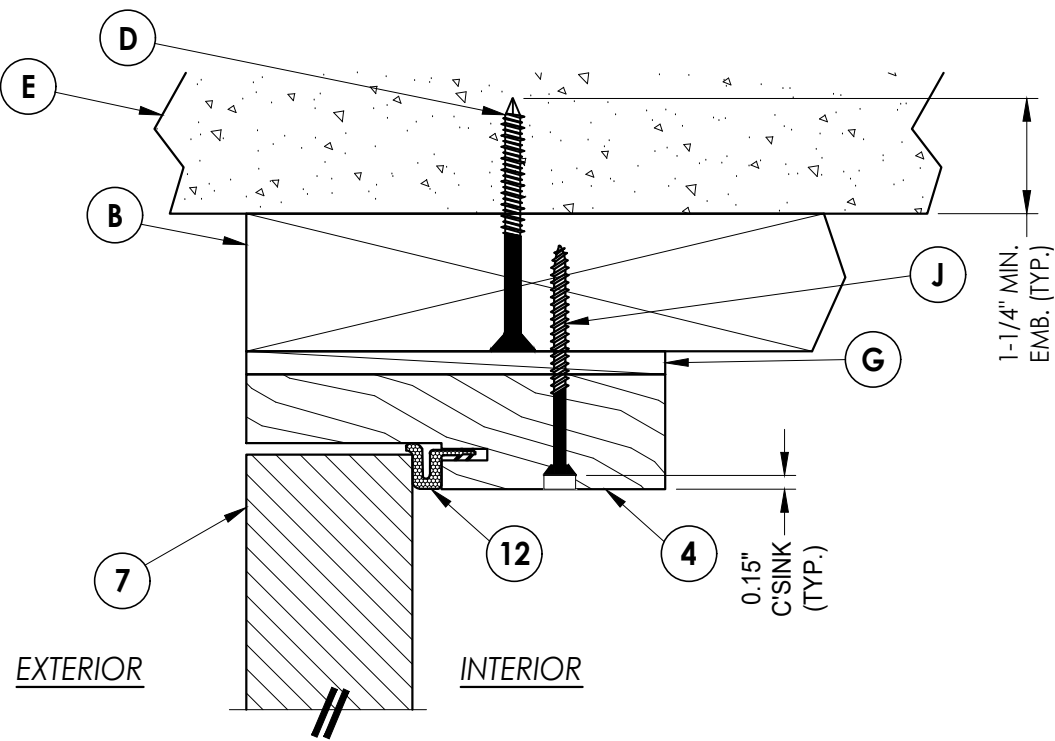
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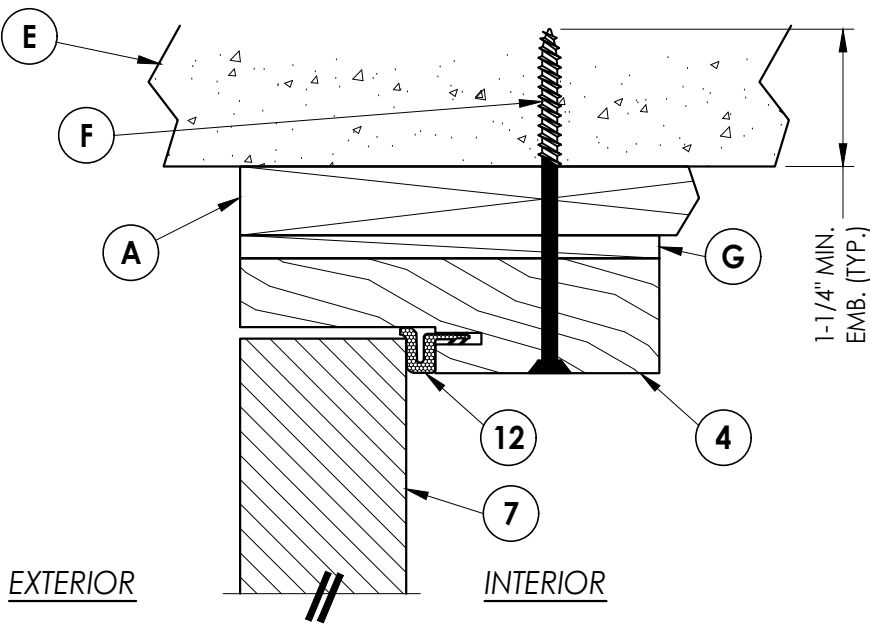
FL-17901.4

SHEET 3 OF 9

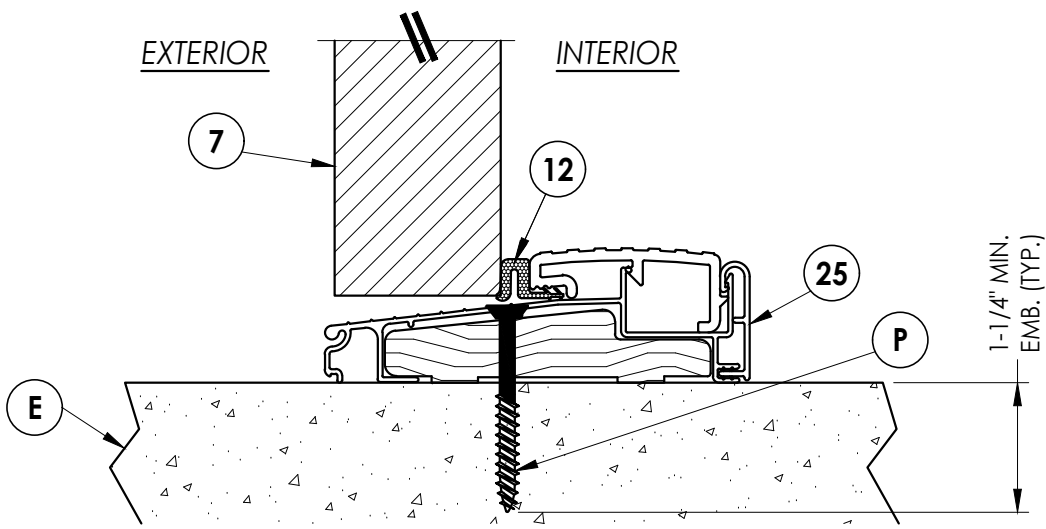
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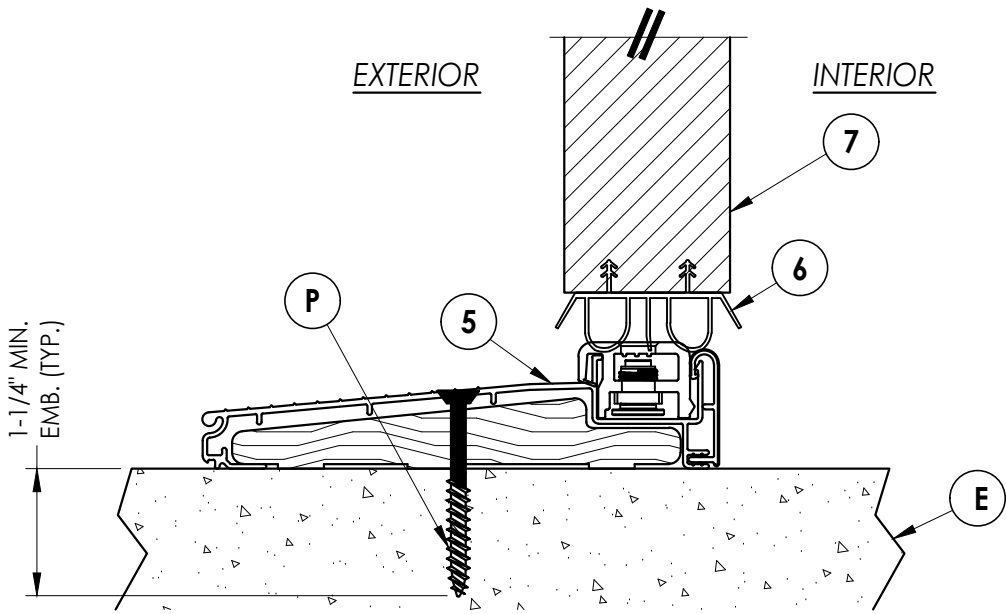
1
4 VERTICAL CROSS SECTION
Outswing shown



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



3
4 VERTICAL CROSS SECTION
Outswing sill

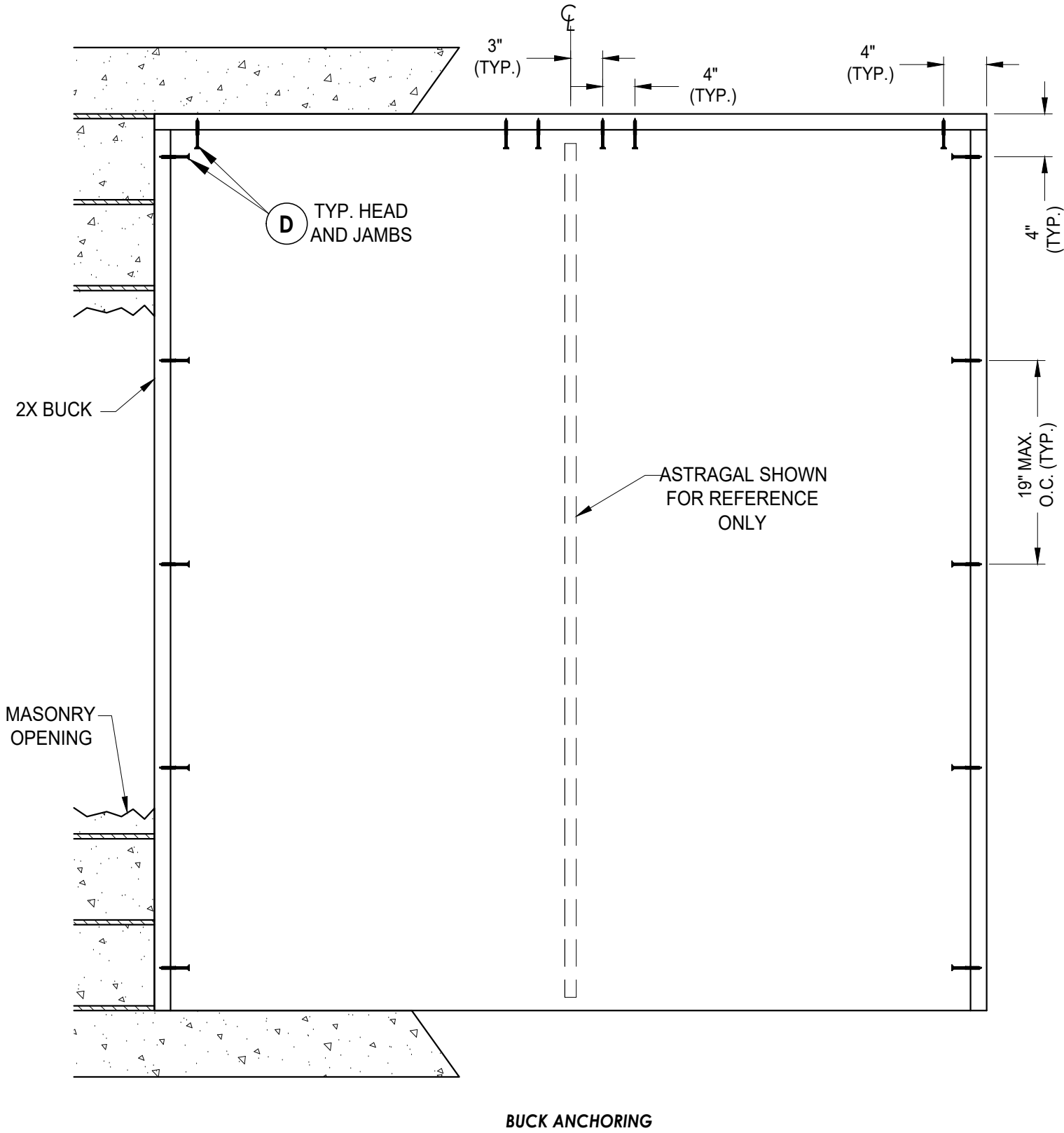


4
4 VERTICAL CROSS SECTION
Inswing sill

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PRODUCT:		STEVED AND SONS		PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS		RW					
				7/01/26		UPDATE TO 9TH ED. (2026)		FBC		LFS			
		4		8/07/23		UPDATE TO 8TH ED. (2023)		FBC		LFS			
		3		9/16/20		UPDATE TO 7TH ED. (2020)		FBC		LFS			
		2		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-17901.4											
SHEET		4		OF		9							

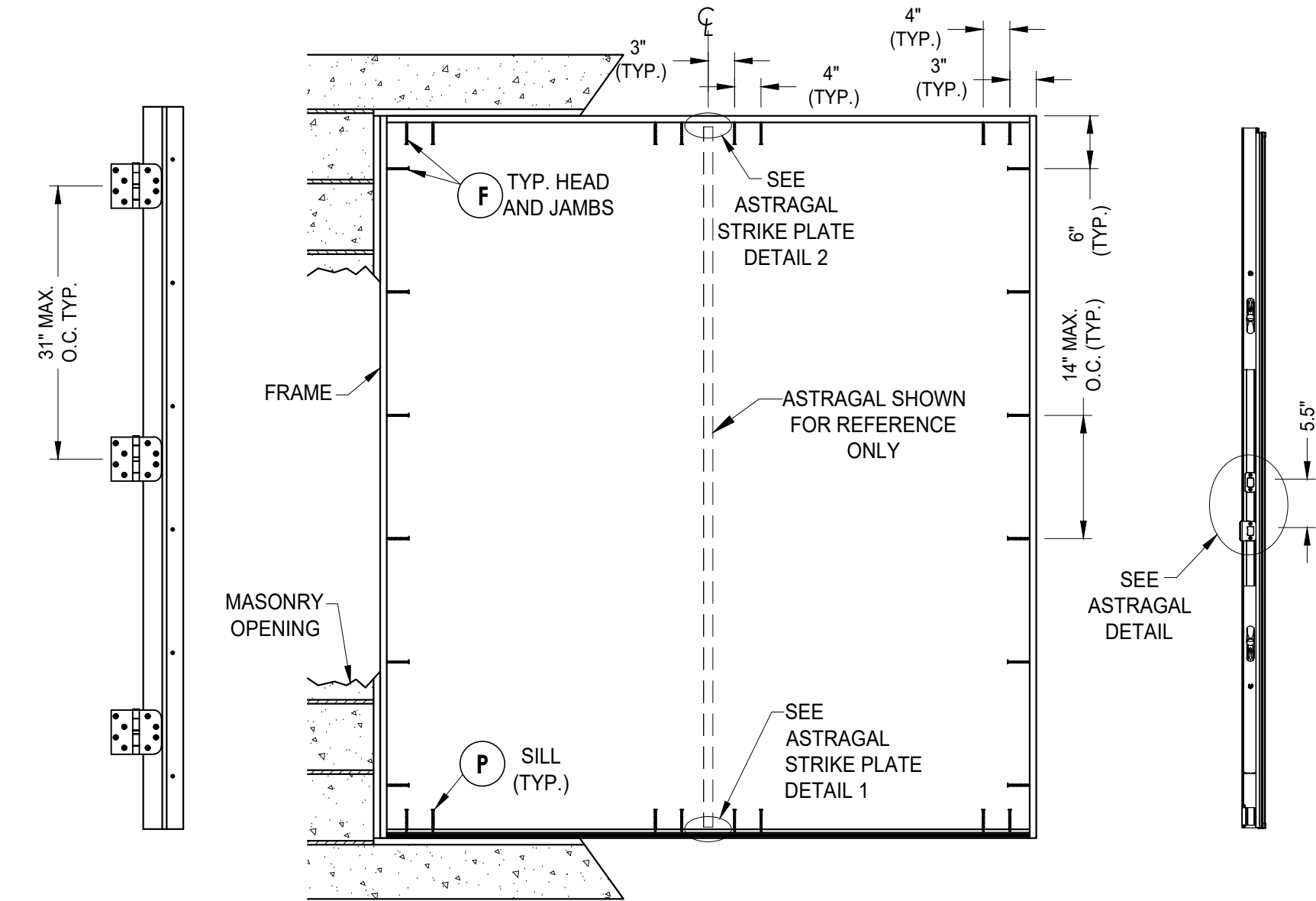
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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FBPE Registry No. 9813



DATE: 7/17/15		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	
SCALE: N.T.S.		DWG. BY: JK		PRODUCT: STEVED AND SONS PART OR ASSEMBLY: BUCK ANCHORING	
CHK. BY: LFS		DRAWING NO.: FL-17901.4			
SHEET 5 OF 9					

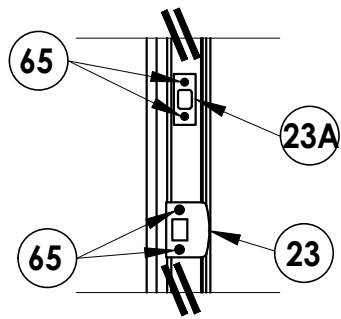
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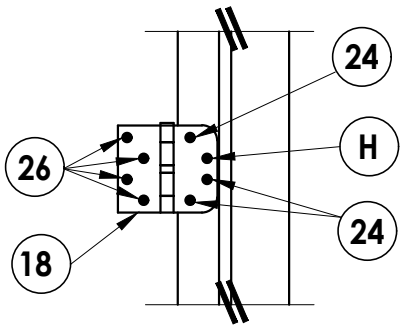
HINGE JAMB

FRAME ANCHORING
Masonry 1X buck construction

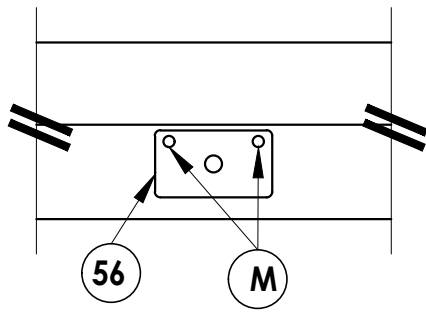
ASTRAGAL



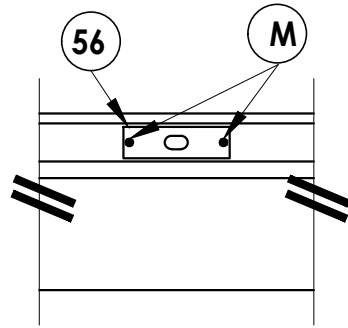
ASTRAGAL DETAIL



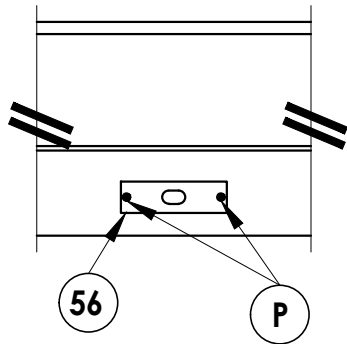
HINGE DETAIL 1



ASTRAGAL STRIKE PLATE
"DETAIL 2"



ASTRAGAL STRIKE PLATE
"DETAIL 1"- INSWING



ASTRAGAL STRIKE PLATE
"DETAIL 1" - OUTSWING

DATE: 7/17/15	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-17901.4	
SHEET 7	OF 9

PRODUCT:	STEVED 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

TOP

ANCHOR SCREW LOCATIONS

1"

12"

50.4"

44"

35.2"

28.9"

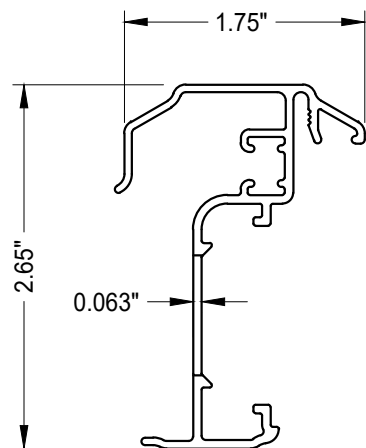
13"

0.5"

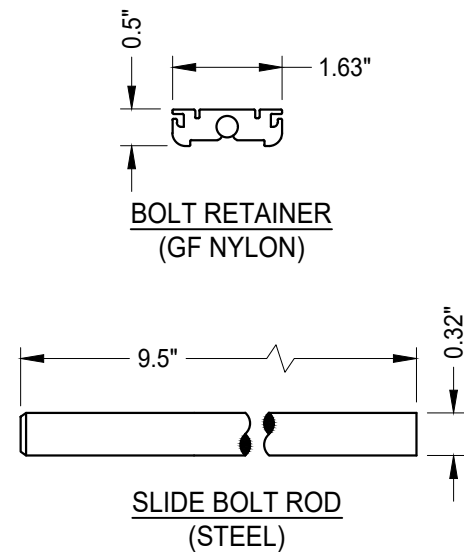
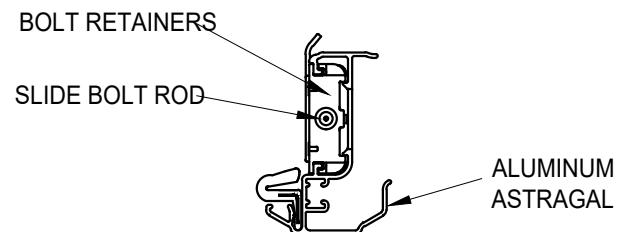
BOTTOM

5.5"

HARDWARE LOCATIONS



ASTRAGAL SECTION

[illegible]

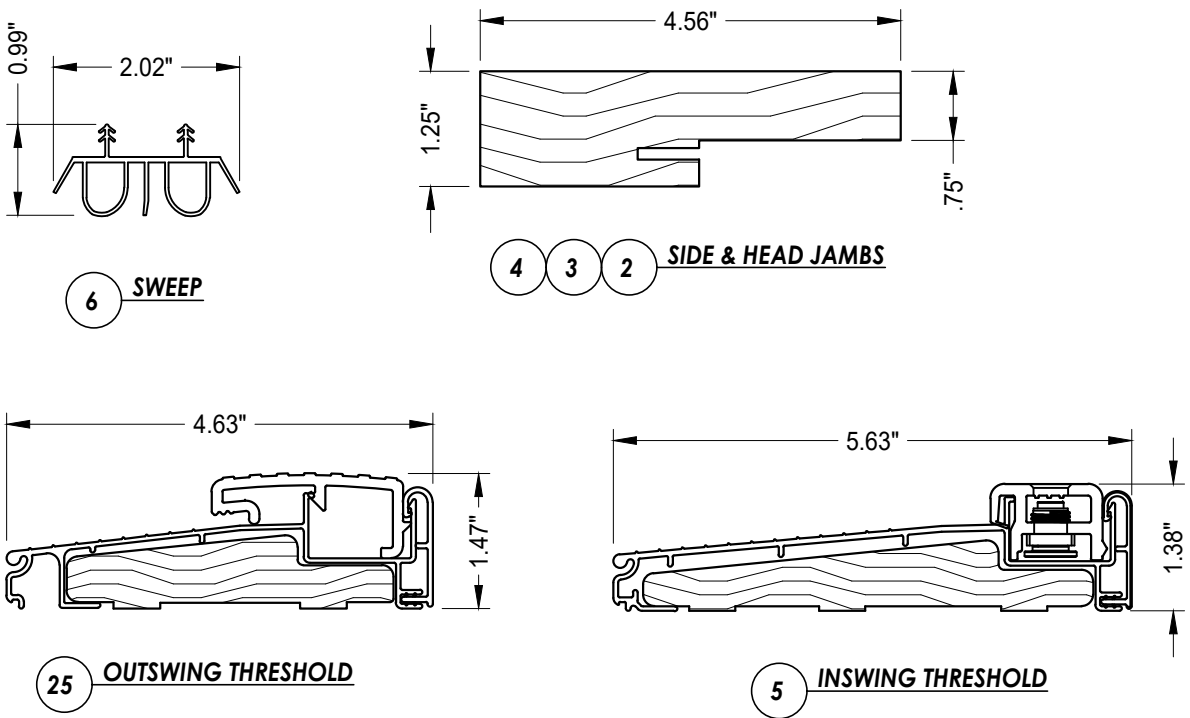
PRODUCT: STEVED AND SONS

PART OR ASSEMBLY:
ENDURA ASTRAGAL DETAILS

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

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BUILDING CONSULTANTS, INC.
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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	-
J	#10 X 2-1/2" PFH WS (1-1/8" MIN. EMBEDMENT)	STEEL
K	#9 X 2" PFH WS	STEEL
M	3/16" X 3-1/4" ITW PFH CONCRETE SCREW	STEEL
P	1/4" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
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	-
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.
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
46	DOOR PANEL FOAMED CORE	POLYSTYRENE
55	ULTIMATE HURRICANE ASTRAGAL (ENDURA)	ALUMINUM
56	ASTRAGAL STRIKE PLATE	STEEL
57	#8 X 2-1/2" PFH WOOD SCREW	STEEL
65	#8 X 2-1/4" PFH WOOD SCREW	STEEL
66	#8 X 1" PFH WOOD SCREW	STEEL



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®	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:

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

DATE: 7/17/15		REVISIONS	
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-17901.4			
SHEET 9	OF 9		