



"D" SERIES
COMMERCIAL STEEL DOOR
w/ TRANSOM
IN swing / OUT swing
"NON-IMPACT"

GENERAL NOTES

1.

This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC)) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2.

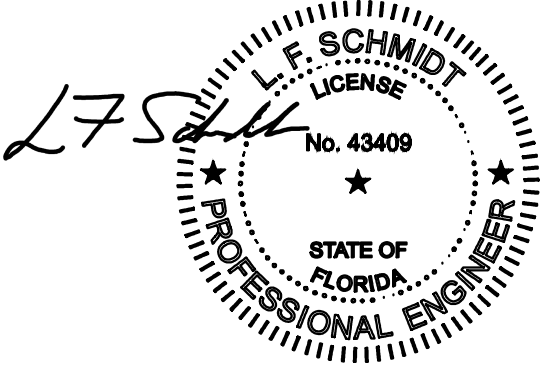
Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

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 Section 1609.1.2.
4.

Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5.

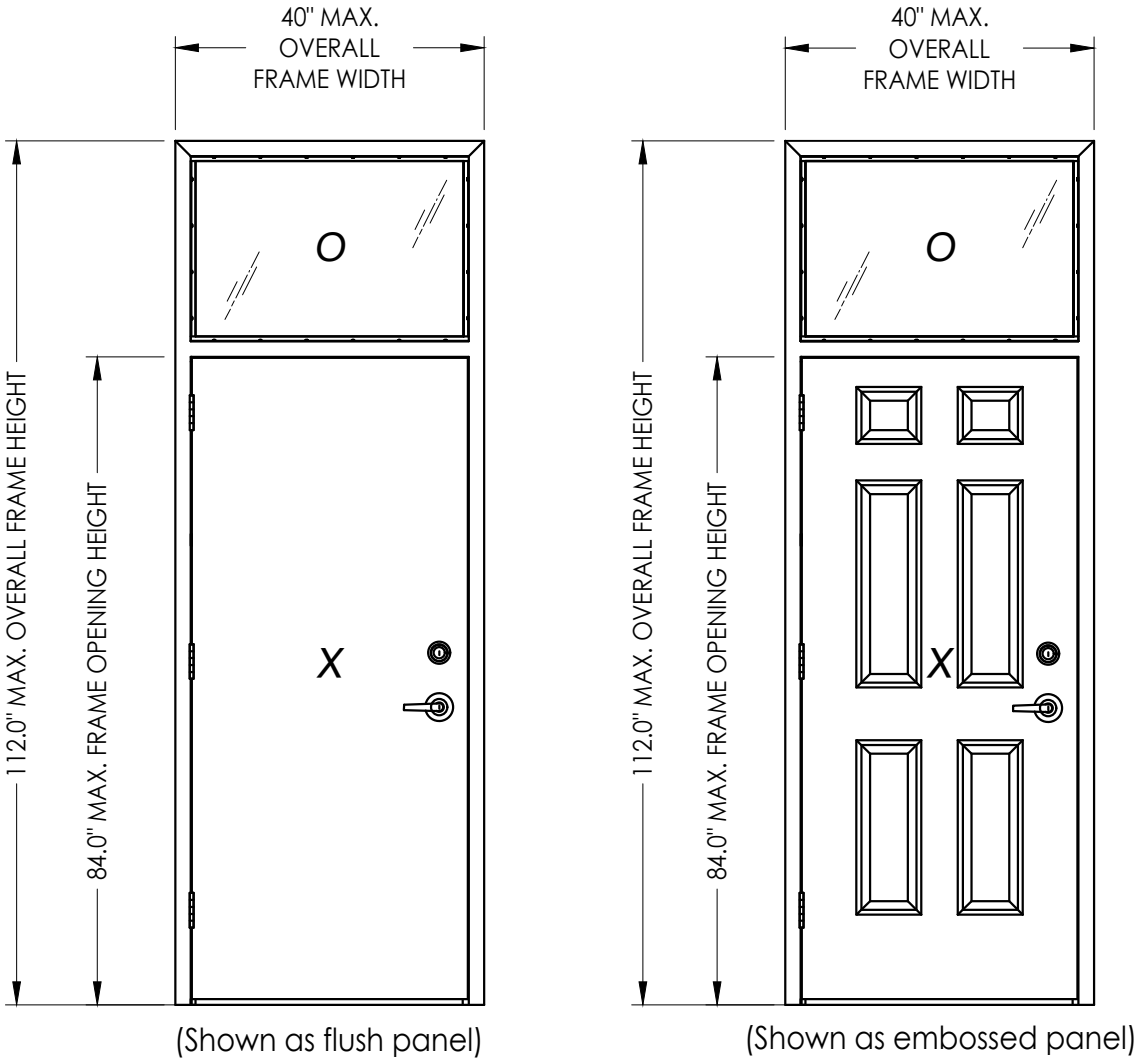
The "D" door achieves a Class I stiffness classification per Section 8.2.2 of ANSI A250.13 (based on opaque door).

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel sections 161 lock prep
3	Horizontal cross sections
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6	Anchoring details
7	Glazing detail & components
8	Bill of materials & components



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	OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
IN swing	40.0" x 112.0"	34.75" x 22.75"	161 LATCH (SCHLAGE)	+55.0	-55.0
	40.0" x 112.0"	34.75" x 22.75"	161 LATCH & DEADBOLT (DESIGN HARDWARE)	+65.0	-70.0
OUT swing	40.0" x 112.0"	34.75" x 22.75"	161 LATCH (SCHLAGE)	+55.0	-55.0
	40.0" x 112.0"	34.75" x 22.75"	161 LATCH & DEADBOLT (DESIGN HARDWARE)	+65.0	-70.0

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

PREMIER PRODUCTS, INC.
"D" STEEL DOOR

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

REVISIONS

DATE: 11/10/22

SCALE: N.T.S.

DWG. BY: LFS

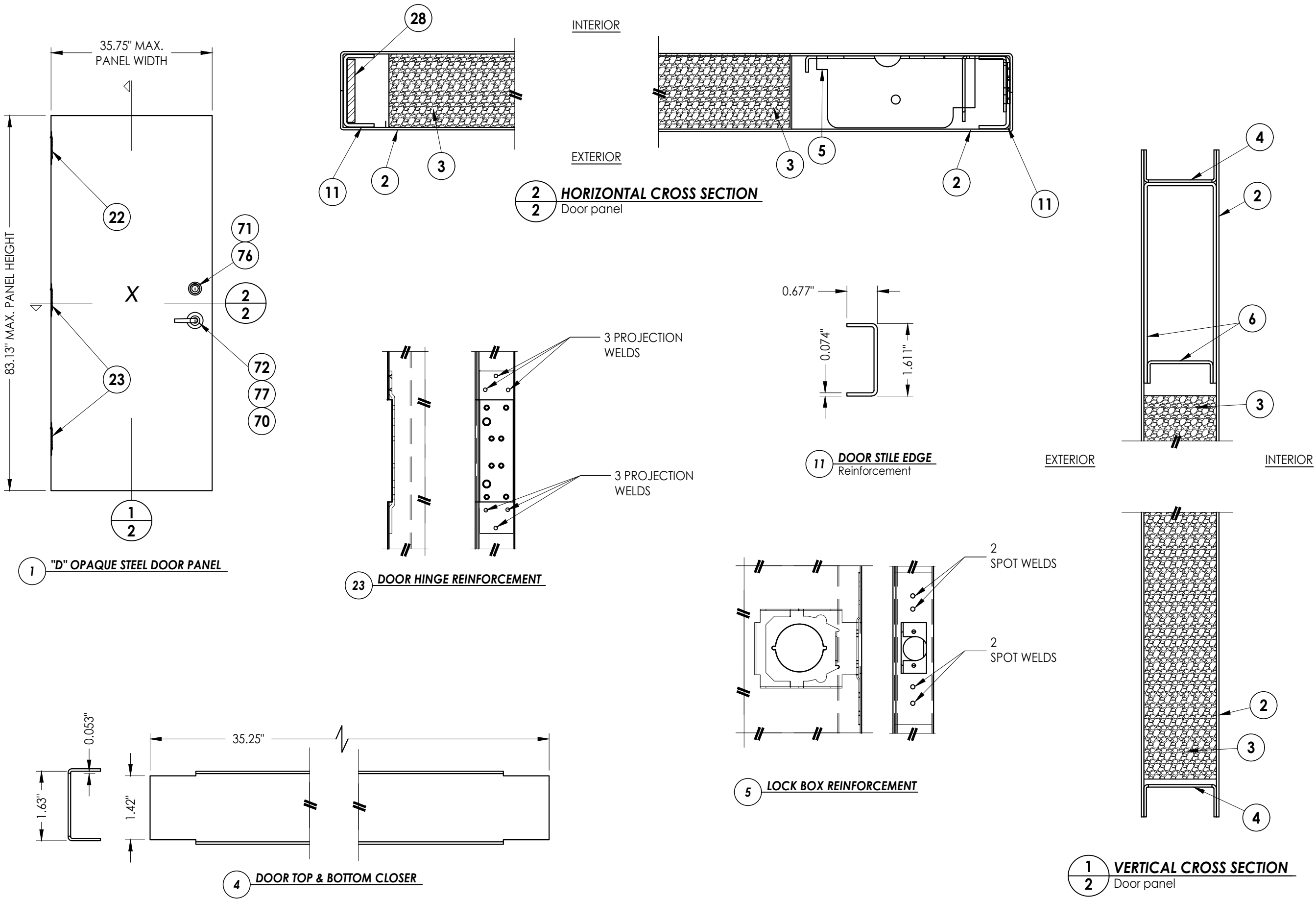
CHK. BY: RW

DRAWING NO.: FL-41788.5

SHEET 1 OF 8

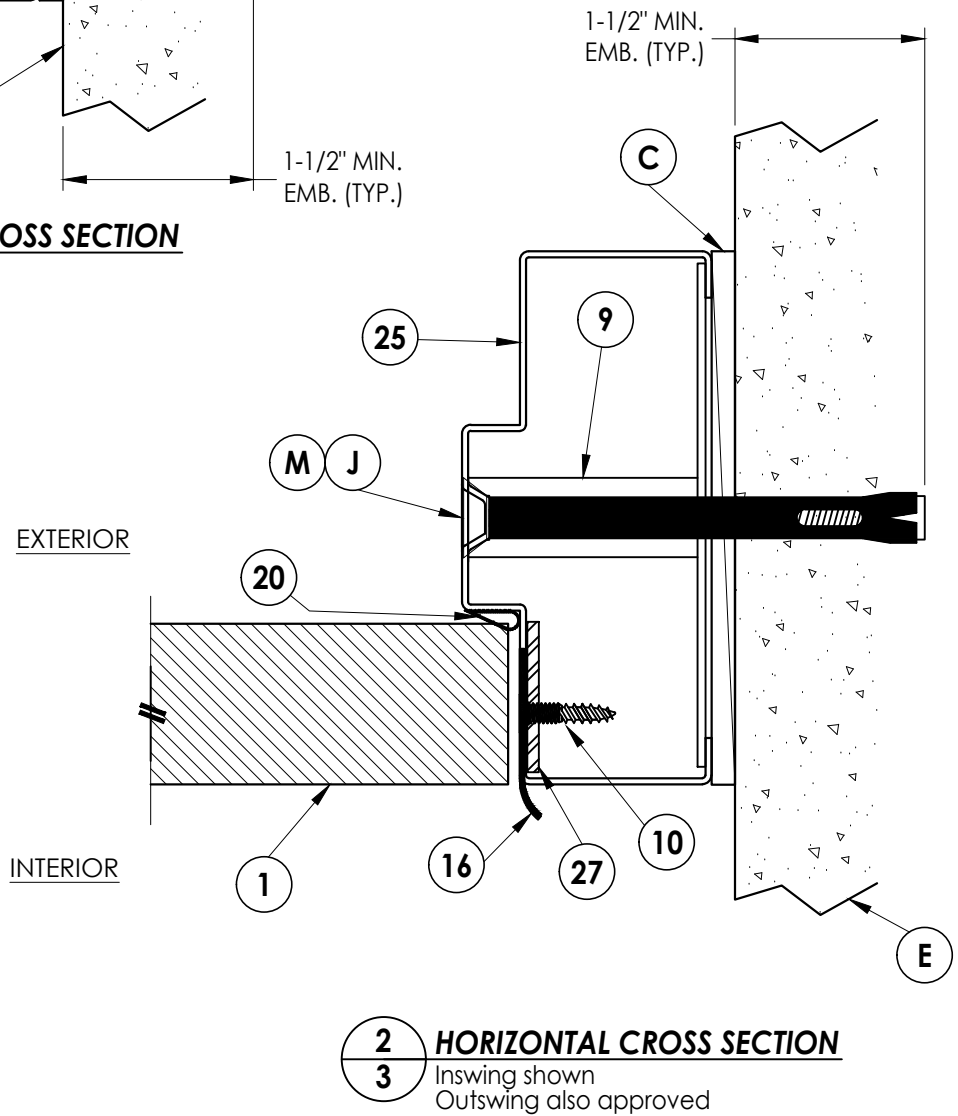
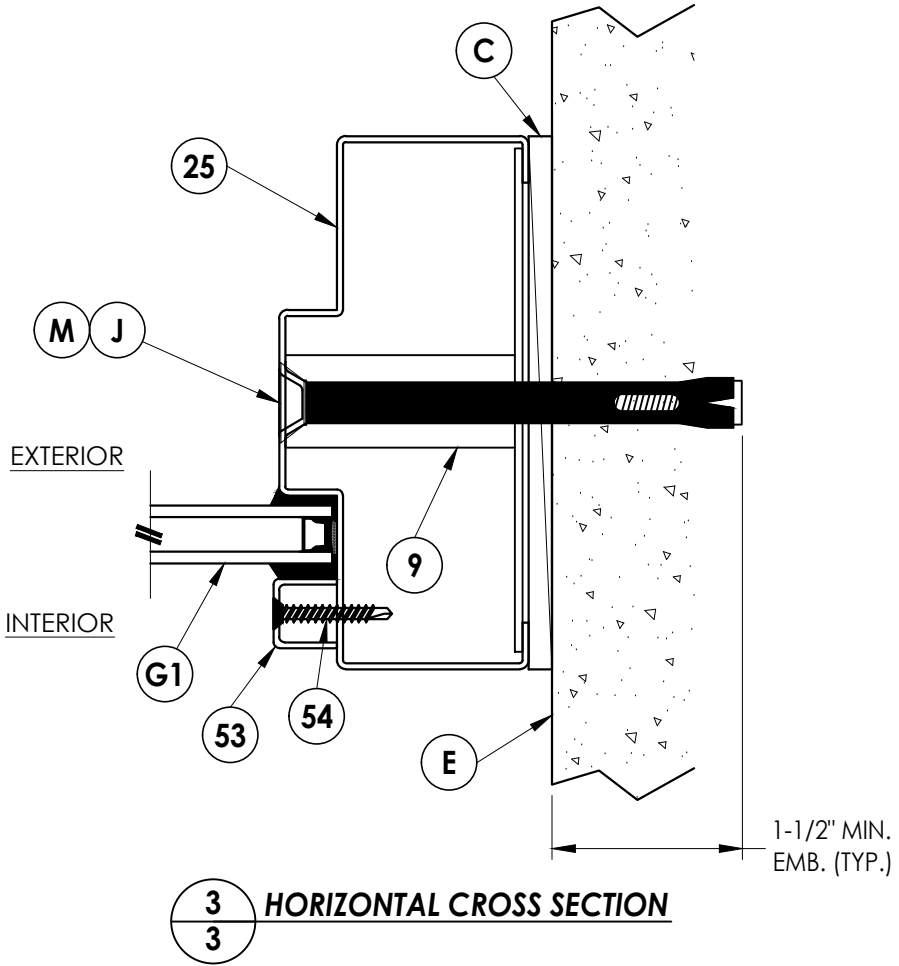
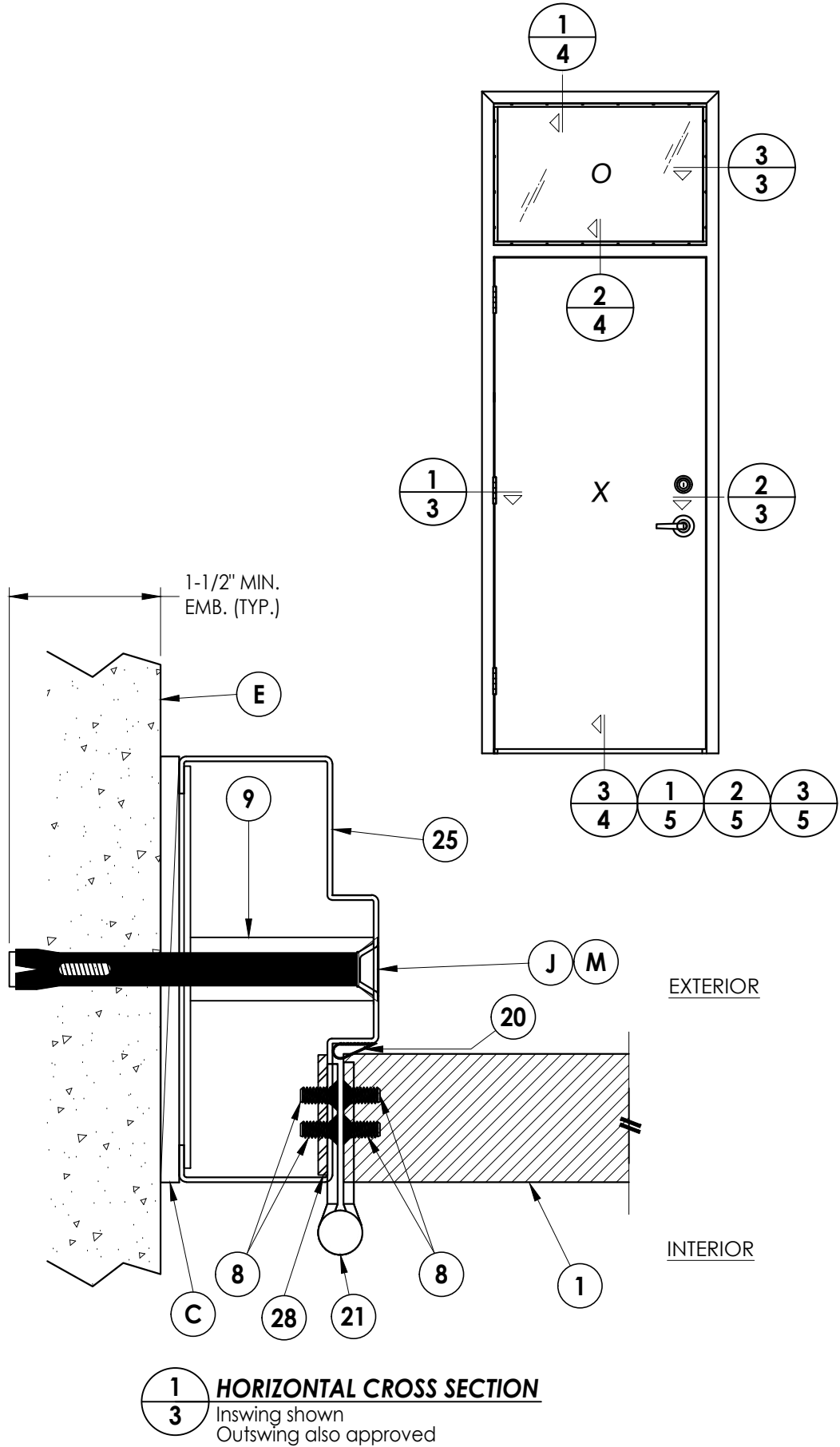
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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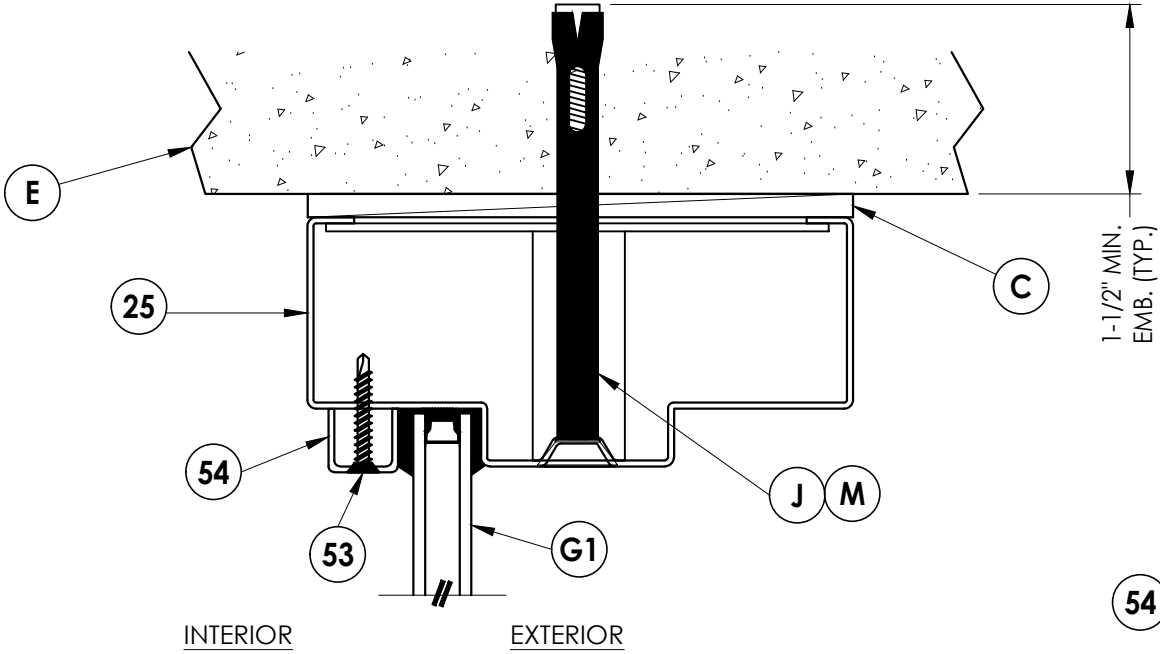


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: PREMIER PRODUCTS, INC. "D" STEEL DOOR		PART OR ASSEMBLY: DOOR PANEL SECTIONS 161 LOCK PREP					
				1	8/21/23	UPDATE TO 8TH ED. (2023)	FBC
				NO	DATE		BY
				REVISIONS			
DATE: 11/10/22							
SCALE: N.T.S.							
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-41788.5							
SHEET 2 OF 8							

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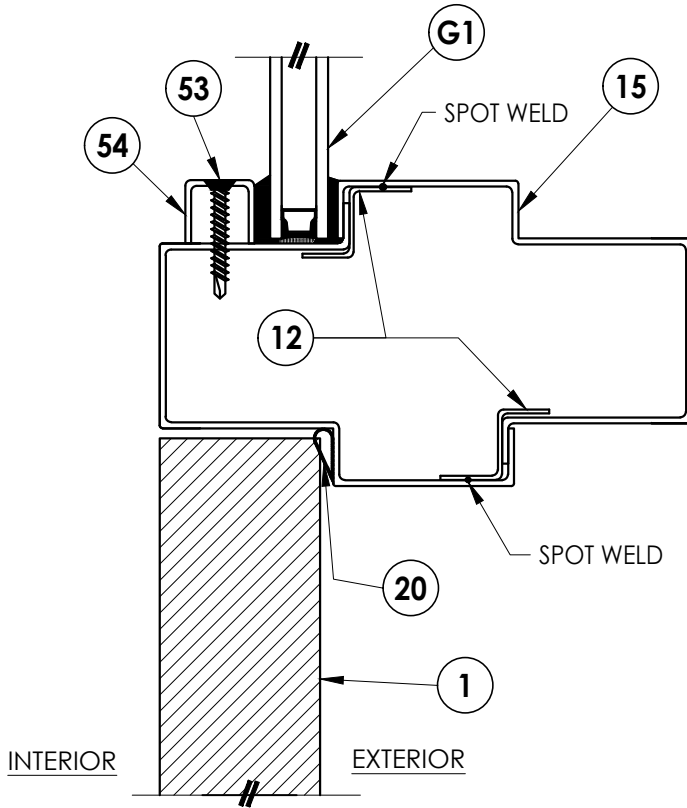


PRODUCT: PREMIER PRODUCTS, INC. "D" STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
DATE: 11/10/22	SCALE: N.T.S.	DWG. BY: LFS	CHK. BY: RW
DRAWING NO.: FL-41788.5	SHEET 3 OF 8	NO. DATE	BY
1	8/21/23	UPDATE TO 8TH ED. (2023)	FBC LFS
REVISIONS			
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409			
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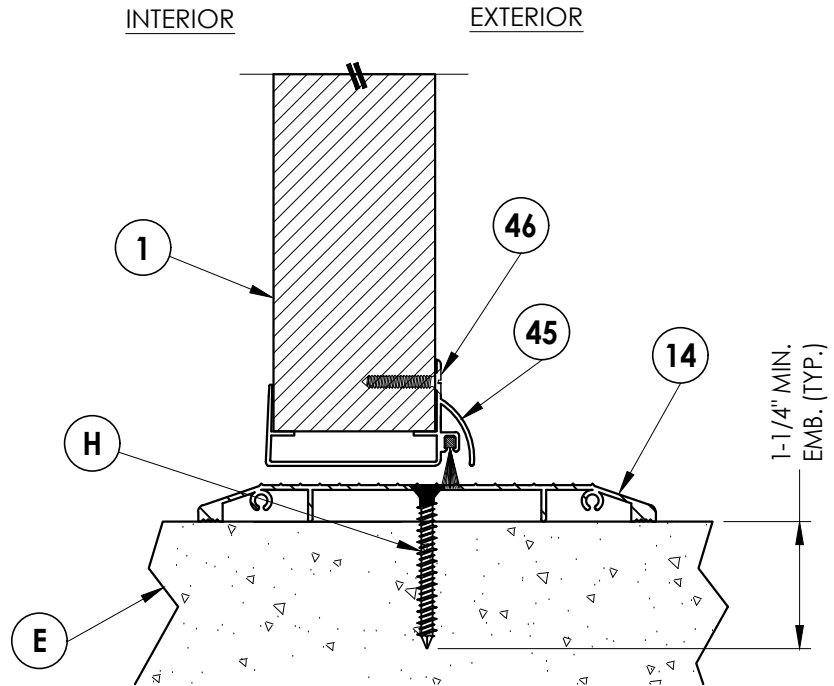


1 4 VERTICAL CROSS SECTION

Inswing shown
Outswing also approved



2 **VERTICAL CROSS SECTION**
4 Inswing shown
 Outswing also approved



3 VERTICAL CROSS SECTION
4 Optional inswing shown

1	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
NO.	DATE			BY	
					REVISIONS

DATE:	11/10/22
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-41788.5
SHEET	4 OF 8

Documents Prepared By:
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Technical drawing showing a cross-section of a wall-to-floor connection detail. The drawing is divided into two main sections: **INTERIOR** (left) and **EXTERIOR** (right).

The detail includes the following components and callouts:

- 1**: Points to the exterior wall assembly.
- 14**: Points to the interior wall assembly.
- H**: Points to the horizontal reinforcement bar (rebar) within the interior wall.
- E**: Points to the exterior finish or insulation layer.
- 29**: Points to the exterior wall assembly.
- 1-1/4" MIN. EMB. (TYP.)**: Dimension indicating the minimum embedment length of the rebar into the concrete floor slab.

The drawing illustrates the connection between the wall and the floor, showing the placement of reinforcement and the required embedment length.

INTERIOR

EXTERIOR

1

24

40

41

42

H

E

45

46

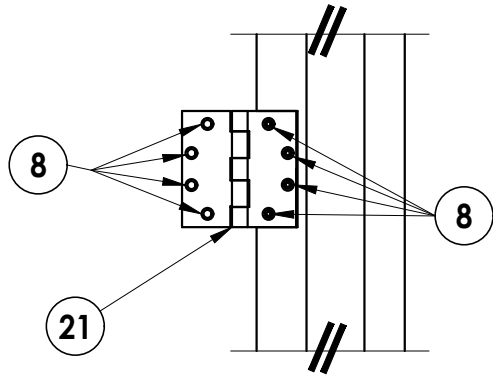
1-1/4" MIN.
EMB. (TYP.)

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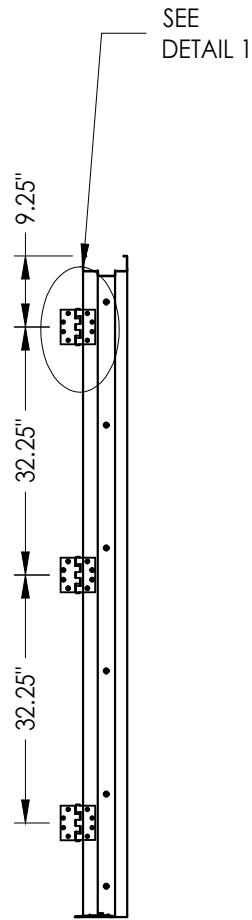
SHEET 5 OF 8

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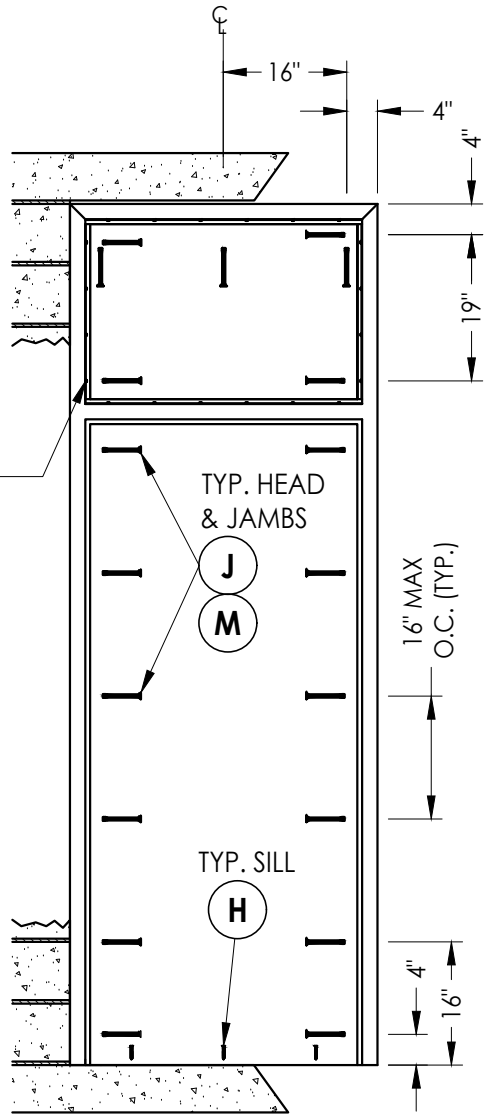


DETAIL 1

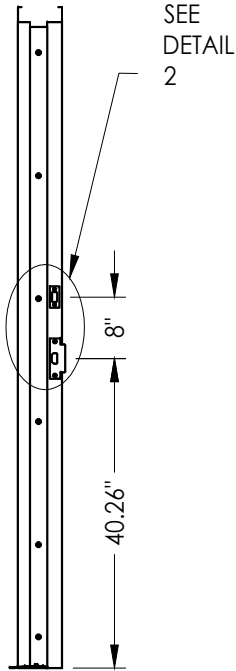


HINGE JAMB

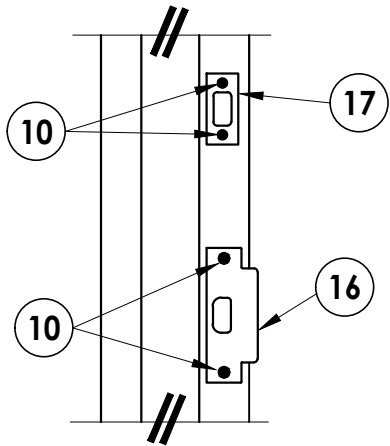
ITEM #44 GLASS STOP
RETAINING SCREW
3" FROM CORNER
6" MAX ON CENTER



FRAME ANCHORING



STRIKE JAMB



DETAIL 2

ANCHOR NOTES:

1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
2. Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
3. Concrete Anchor Table:

ANCHOR TYPE	ANCHOR SIZE	MINIMUM EMBEDMENT	MINIMUM CLEARANCE TO MASONRY EDGE	MINIMUM CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"
POWERS TAPPER	3/8"	1-1/2"	4"	3-3/4"

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FBPE Registry No. 9813

PRODUCT:
PREMIER PRODUCTS, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:
ANCHORING DETAILS

NO.	DATE	DESCRIPTION	BY
1	8/21/23	UPDATE TO 8TH ED. (2023) FBC	LFS

DATE: 11/10/22

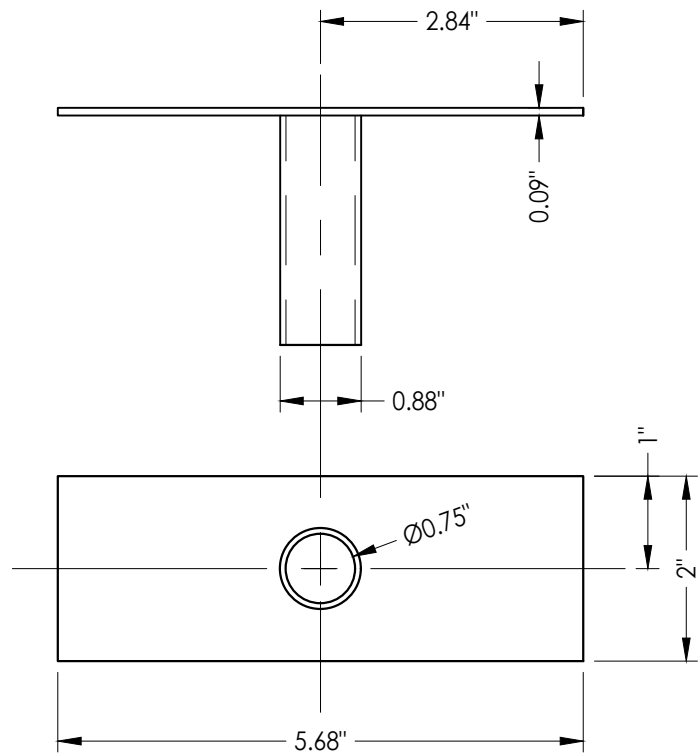
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DWG. BY: LFS

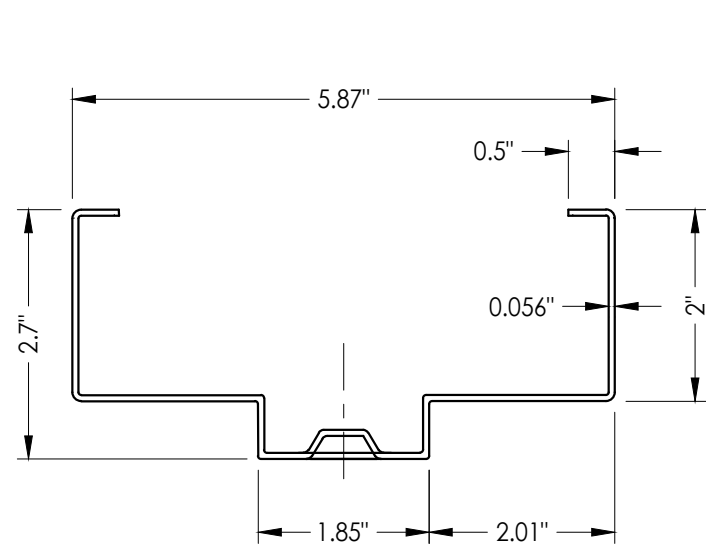
CHK. BY: RW

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FL-41788.5

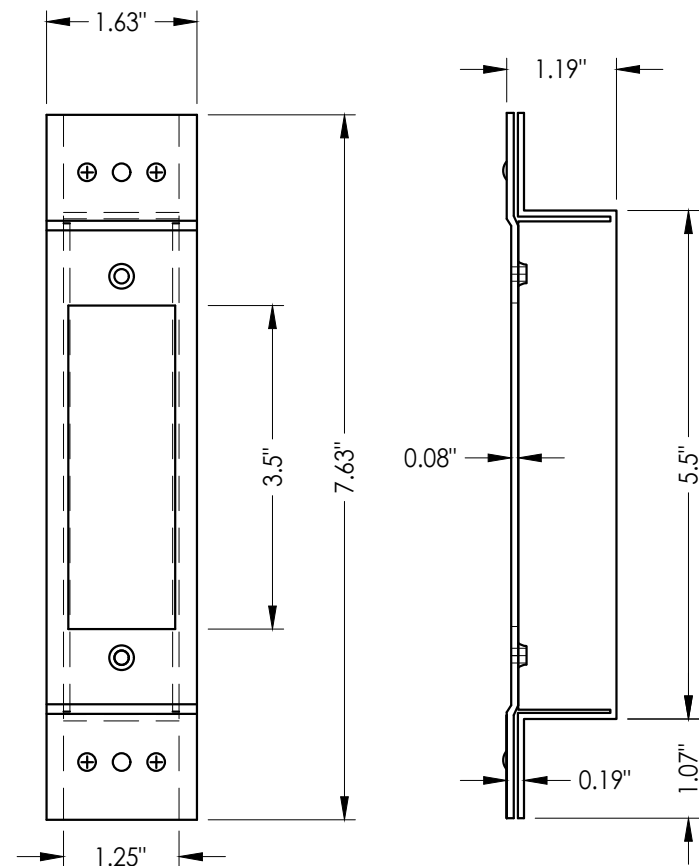
SHEET 6 OF 8



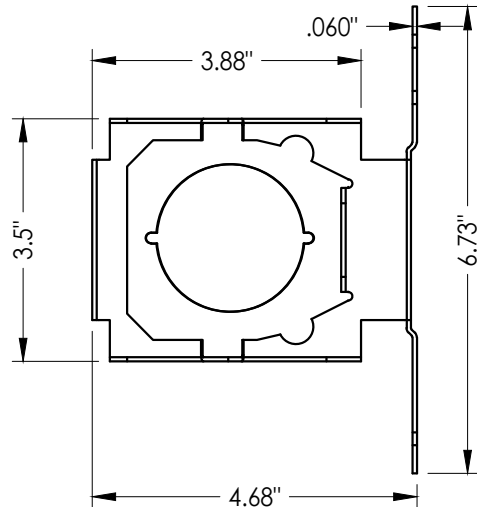
9 TUBE ANCHOR



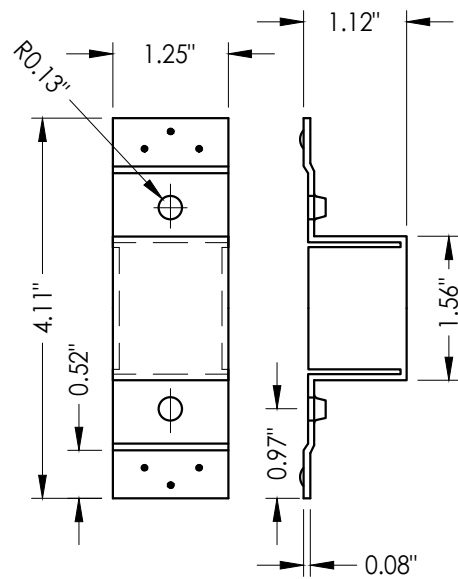
25 HOLLOW METAL FRAME



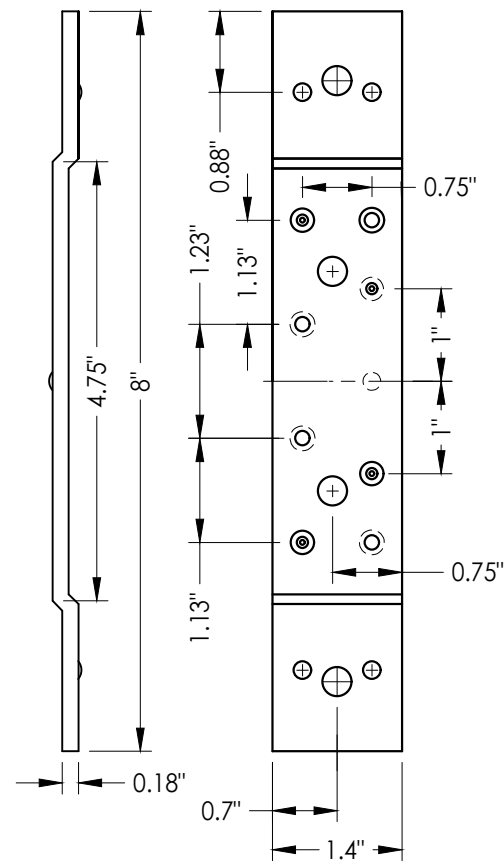
27 LATCH STRIKE REINFORCEMENT



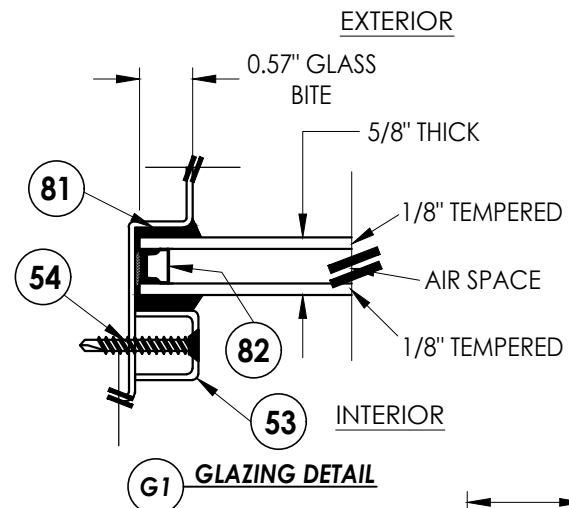
5 LOCK BOX REINFORCEMENT



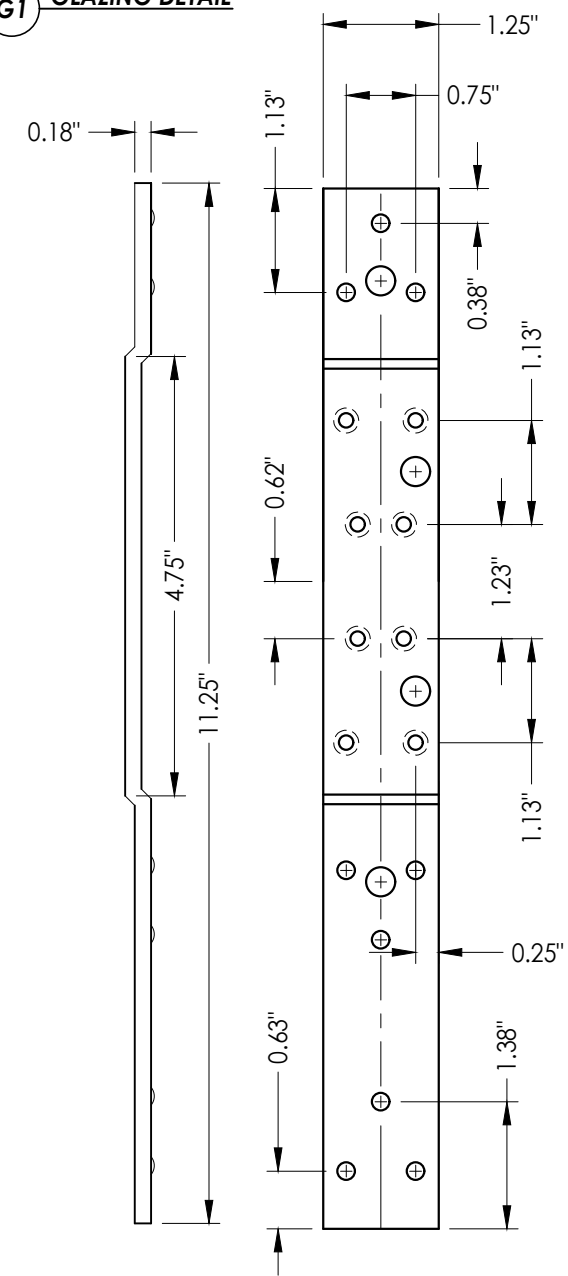
19 DEADBOLT STRIKE REINFORCEMENT



23 STANDARD (SHORT) DOOR HINGE
Reinforcement middle and bottom hinge



G1 GLAZING DETAIL



22 **STANDARD (LONG) DOOR HINGE**

1	8/21/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
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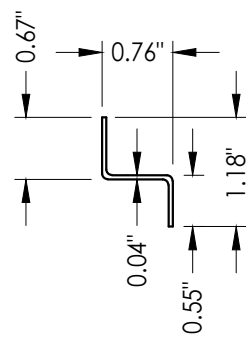
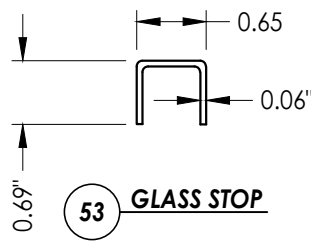
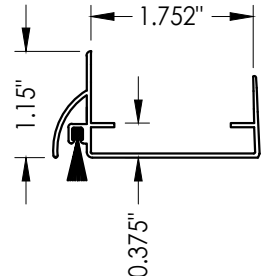
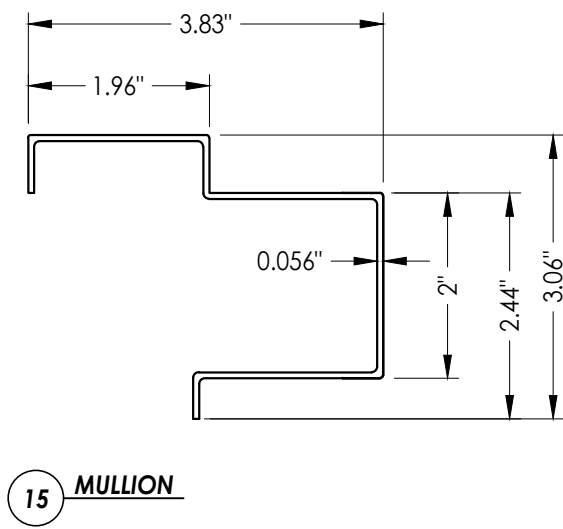
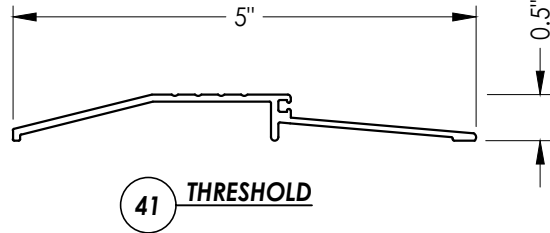
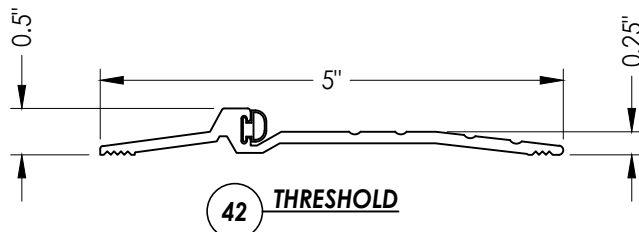
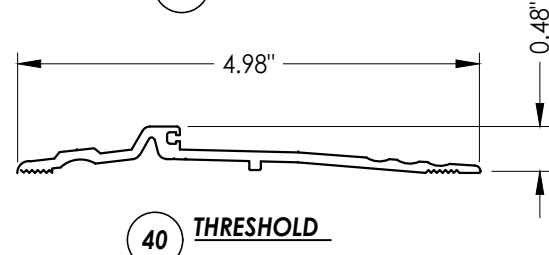
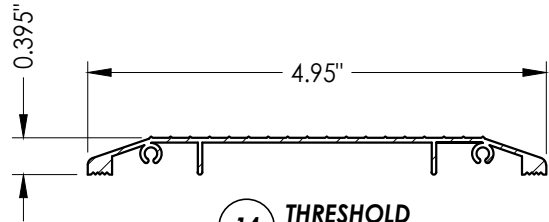
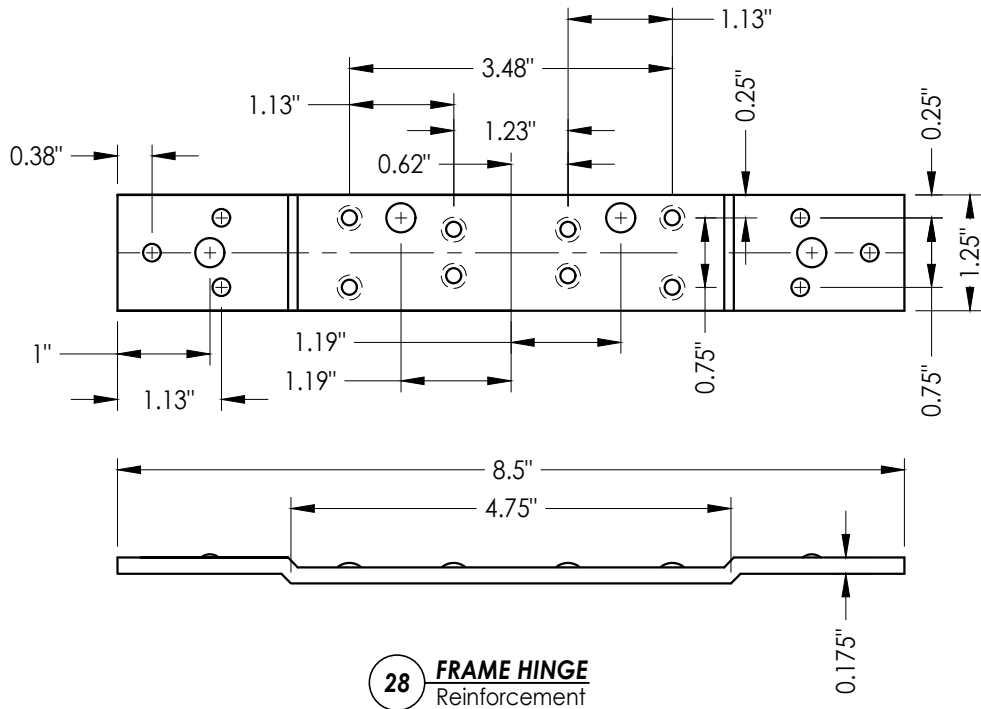
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SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-41788.5
SHEET	7 OF 8

Documents Prepared By:
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BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
H	1/4" x 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL	25	FRAME 5-3/4" X 2" MIN. (0.056" THK)	STEEL
1	"D" OPAQUE STEEL DOOR PANEL	-	27	LATCH STRIKE REINFORCEMENT	STEEL
2	DOOR SKIN (0.055" THK. STEEL, Fy = 40,317 PSI MIN.)	STEEL	28	FRAME HINGE REINFORCEMENT	STEEL
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	29	COLUMBIA DOOR BOTTOM SWEEP #2580	ALUMINUM
4	DOOR TOP & BOTTOM CLOSER	STEEL	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
5	LOCK BOX REINFORCEMENT	STEEL	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
6	CLOSER REINFORCEMENT	STEEL	42	THRESHOLD PEMKO #2005 V	ALUMINUM
8	#12-24 x 1/2" SELF TAPPER	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
9	TUBE ANCHOR	STEEL	46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	53	U-CHANNEL GLASS STOP	STEEL
11	DOOR STILE EDGE REINFORCEMENT	STEEL	54	#8 X 1.25" PFH SMS	STEEL
12	MULLION Z BRACKET	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
15	MULLION MIN. (0.056" THK)	STEEL	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
16	ANSI LATCH STRIKE	STEEL	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
17	DEADBOLT STRIKE	STEEL	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL	81	DOW 995 STRUCTURAL SILICONE	SILICONE
20	WEATHER-STRIP	NEOPRENE	82	GLASS SPACER	ALUM



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"D" STEEL DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

DATE: 11/10/22

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-41788.5

SHEET 8 OF 8

8/21/23
NO.

UPDATE TO 8TH ED. (2023)
DATE

FBC
BY

LFS

REVISIONS

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