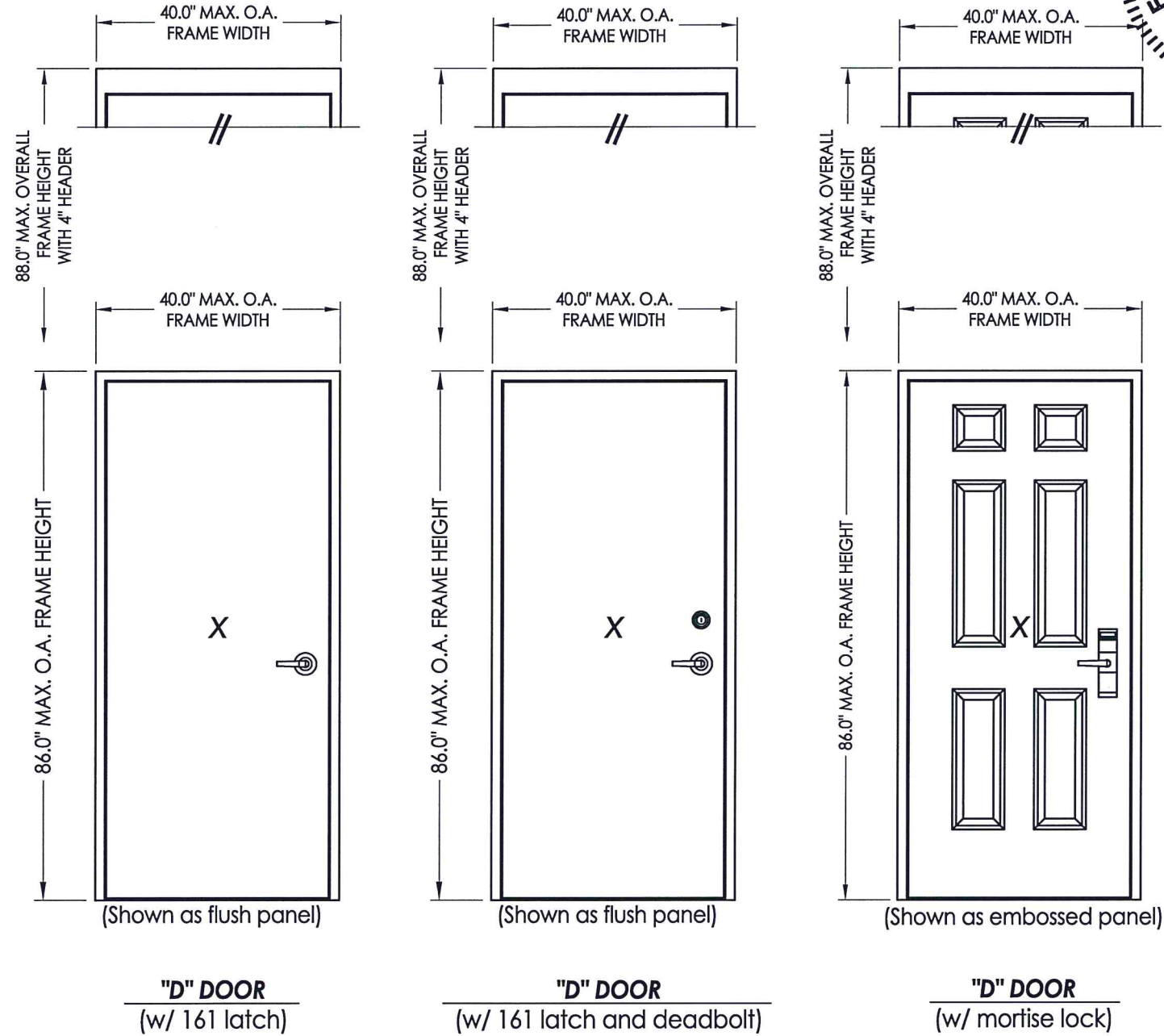


## "D" SERIES COMMERCIAL STEEL DOOR OUTSWING "IMPACT"

### GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including 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 the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. Outswing configurations using high water dam threshold item #78 meet water infiltration requirements for "HVHZ".
6. Outswing configurations using sill item #40, #41 and #42 do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
7. All steel shall be protected as specified in Section 2222.6 of the FBC.



"D" DOOR  
(w/ 161 latch)

"D" DOOR  
(w/ 161 latch and deadbolt)

"D" DOOR  
(w/ mortise lock)

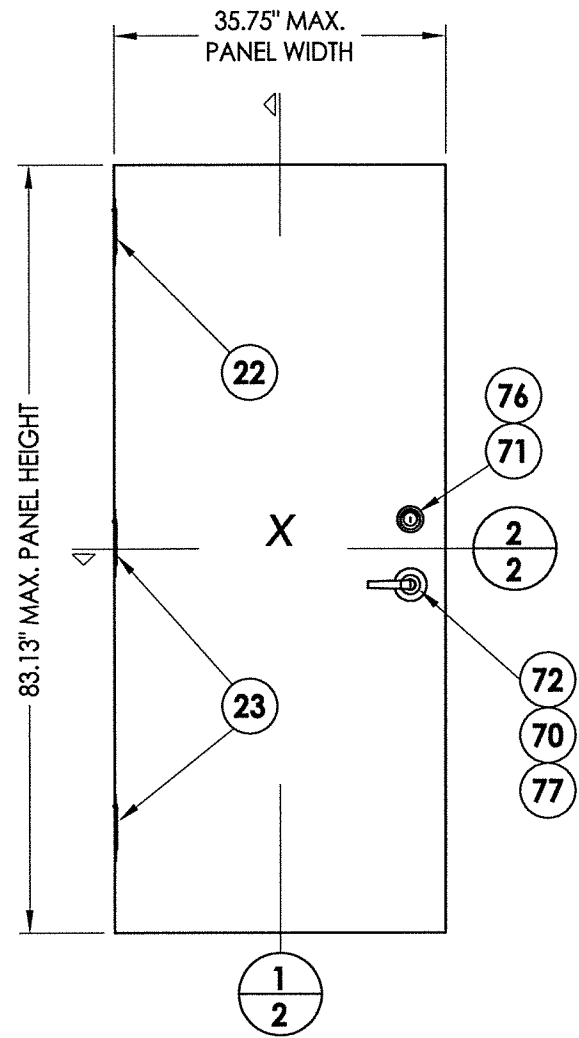
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel sections 161 lock prep
3	Door panel sections 86E mortise lock prep
4	Horizontal cross sections
5	Horizontal cross sections
6	Horizontal cross sections
7	Vertical cross sections
8	Frame anchoring
9	Anchoring details
10	Components
11	Bill of materials & components

OVERALL FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
40.0" x 86.0"	161 LATCH (SCHLAGE)	+55.0	-55.0
40.0" x 86.0"	161 LATCH & DEADBOLT (DESIGN HARDWARE)	+70.0	-70.0
40.0" x 86.0"	86E MORTISE LOCK (ONITY)	+60.0	-60.0

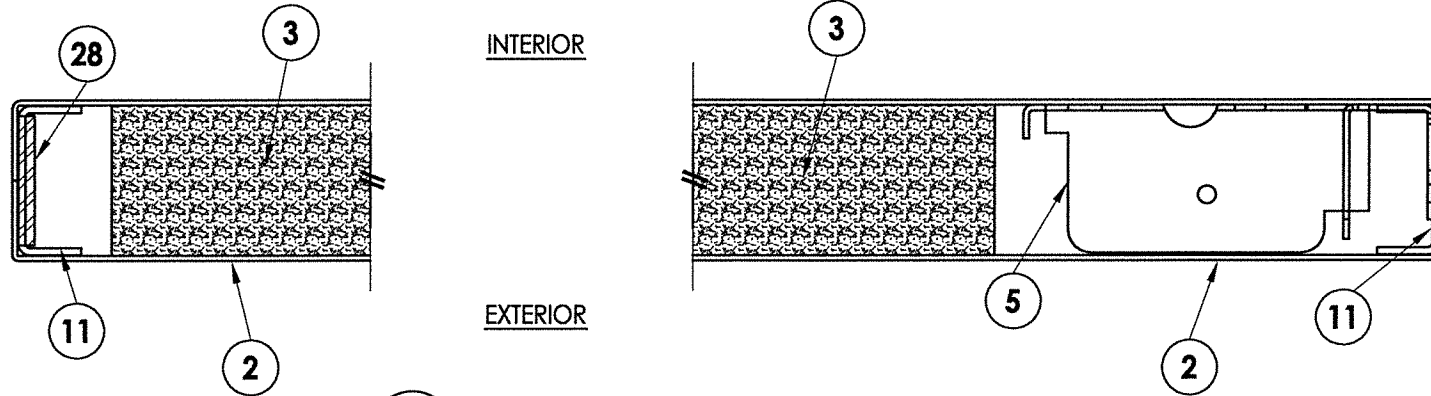
November 15, 2022  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409

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

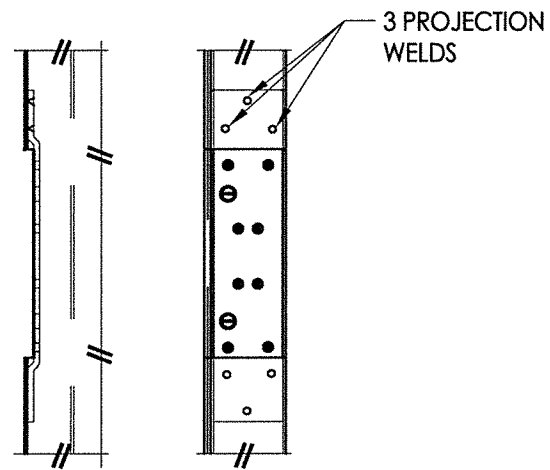
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PART OR ASSEMBLY:		"D" STEEL DOOR	
TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES			
NO.	DATE	BY	REVISIONS
DATE: 11/10/22			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-41788.17			
SHEET 1 OF 11			



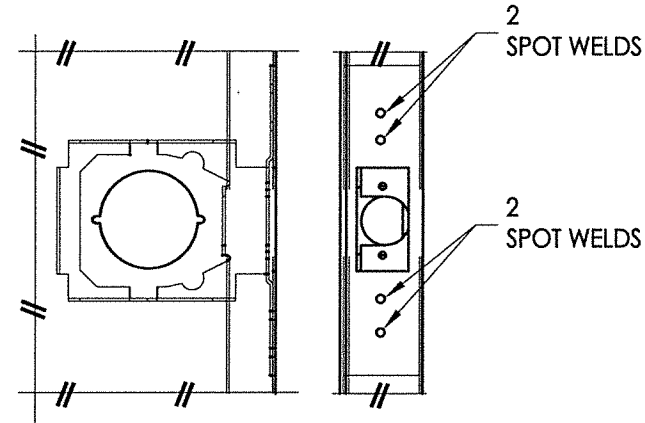
1 "D" OPAQUE STEEL DOOR PANEL



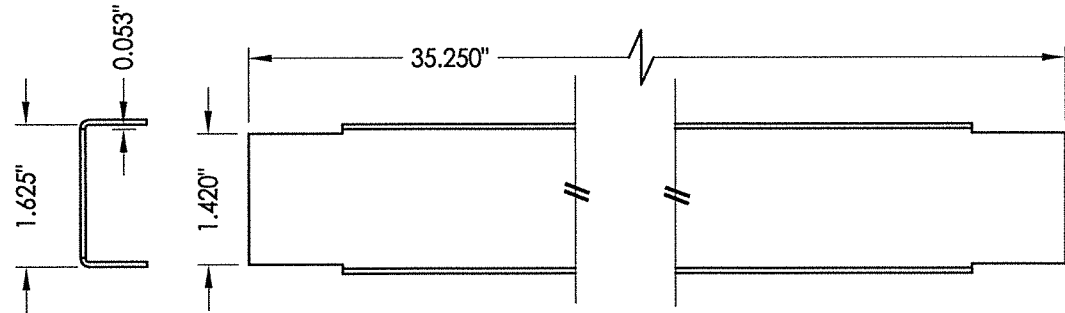
2 HORIZONTAL CROSS SECTION  
2 Door panel



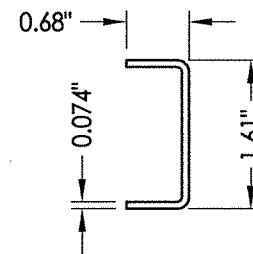
23 DOOR HINGE REINFORCEMENT



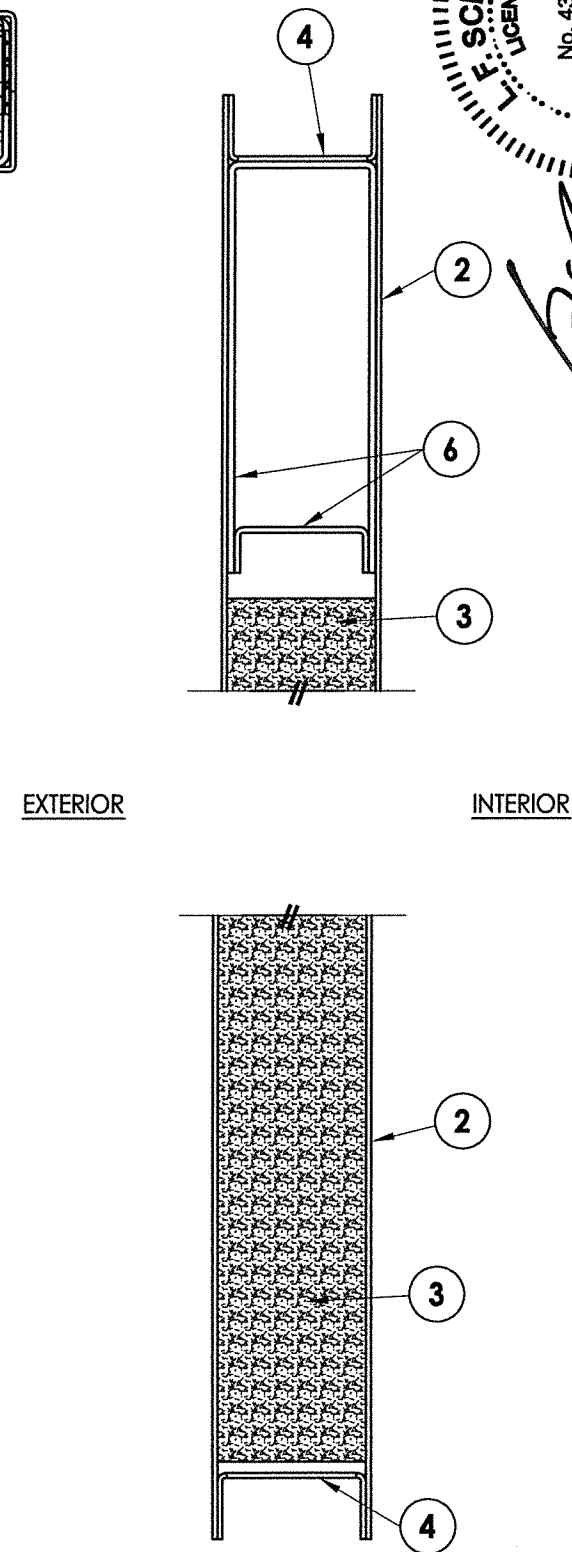
5 LOCK BOX REINFORCEMENT



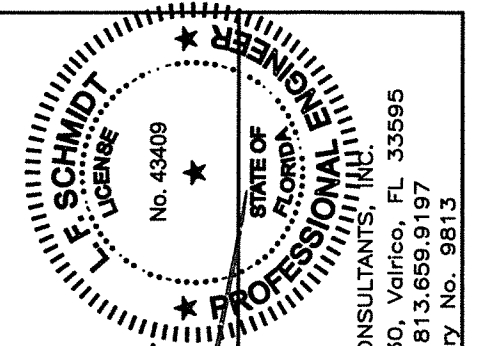
4 DOOR TOP & BOTTOM CLOSER



11 DOOR STILE EDGE Reinforcement



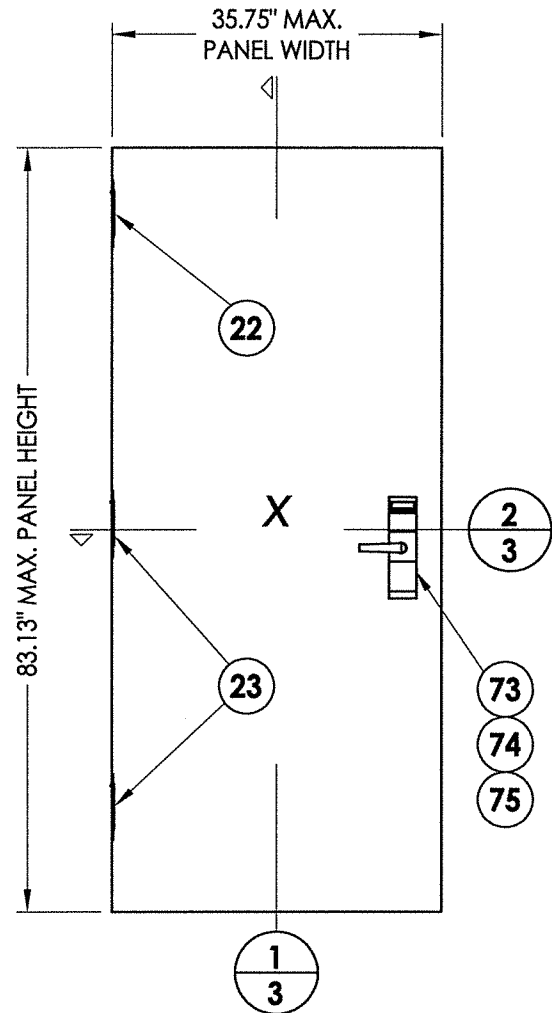
1 VERTICAL CROSS SECTION  
2 Door panel



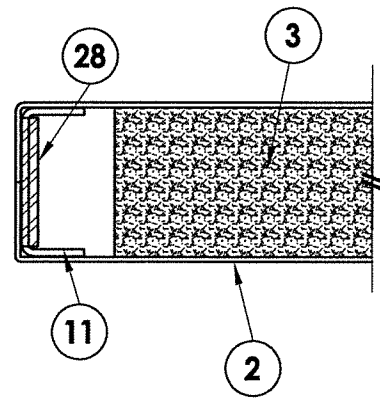
November 15, 2022  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409  
 RW  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Vairico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT:	PREMIER PRODUCTS, INC. "D" STEEL DOOR	
PART OR ASSEMBLY:	DOOR PANEL SECTIONS 161 LOCK PREP	
NO.	DATE	BY
		REVISIONS

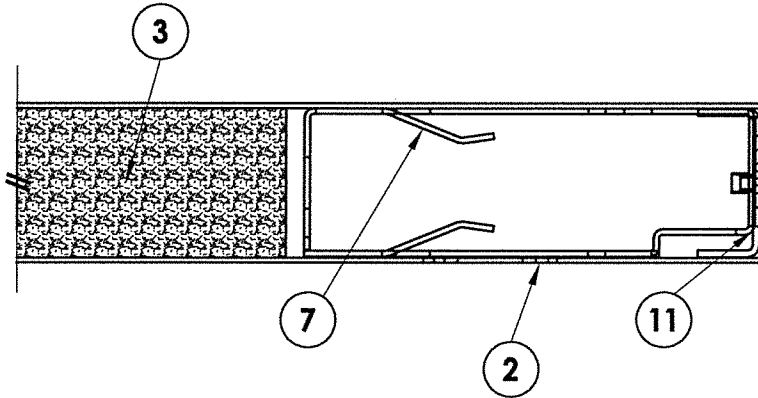
DATE:	11/10/22
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-41788.17
SHEET	2 OF 11



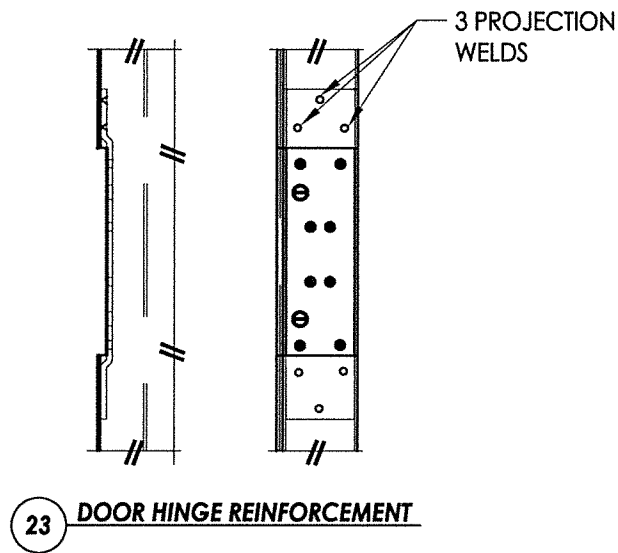
**1** "D" OPAQUE STEEL DOOR PANEL



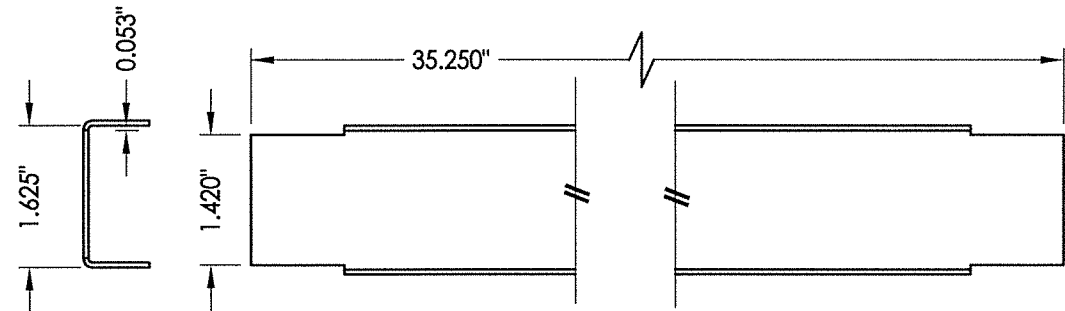
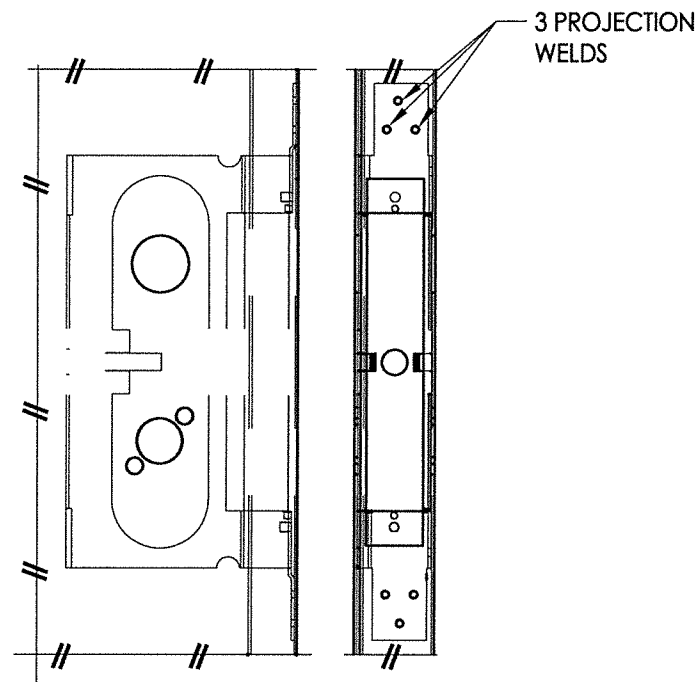
**2** HORIZONTAL CROSS SECTION  
**3** Door panel



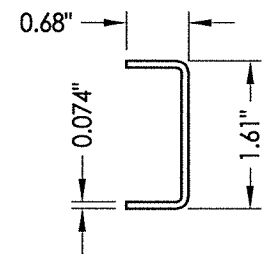
**7** MORTISE BOX REINFORCEMENT



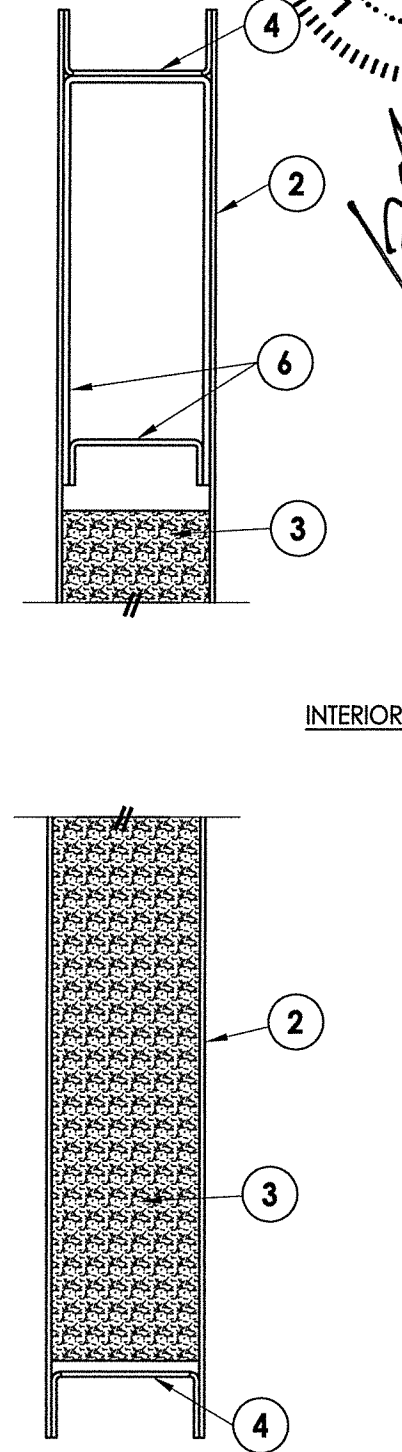
**23** DOOR HINGE REINFORCEMENT



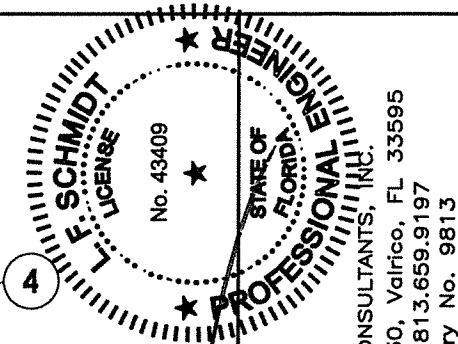
**4** DOOR TOP & BOTTOM CLOSER



**11** DOOR STILE EDGE Reinforcement

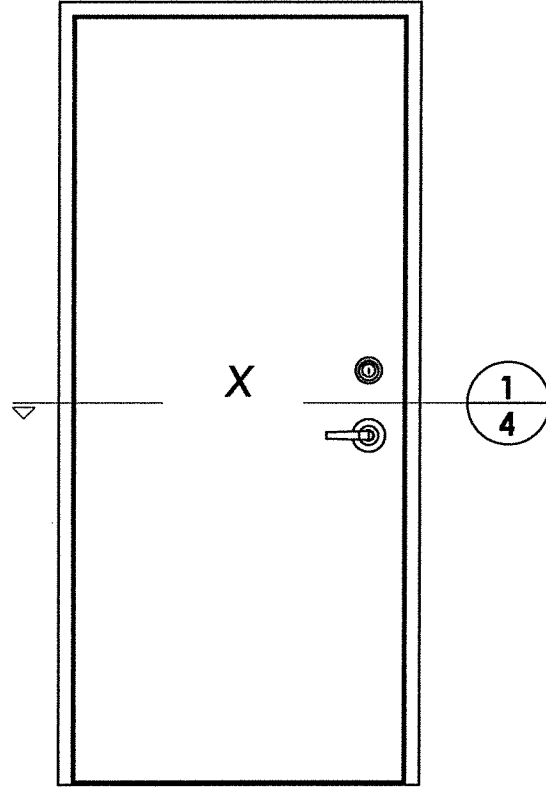
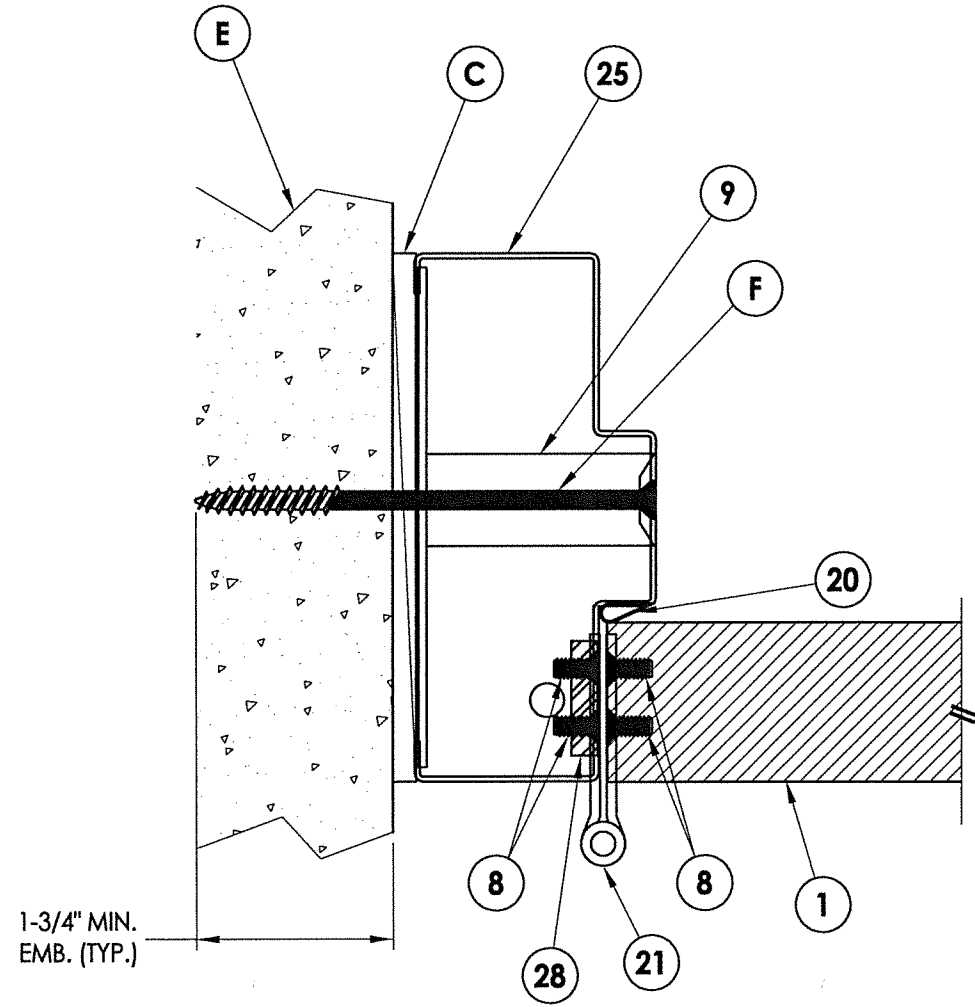


**1** VERTICAL CROSS SECTION  
**3** Door panel



November 15, 2022  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409  
 R.W. BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

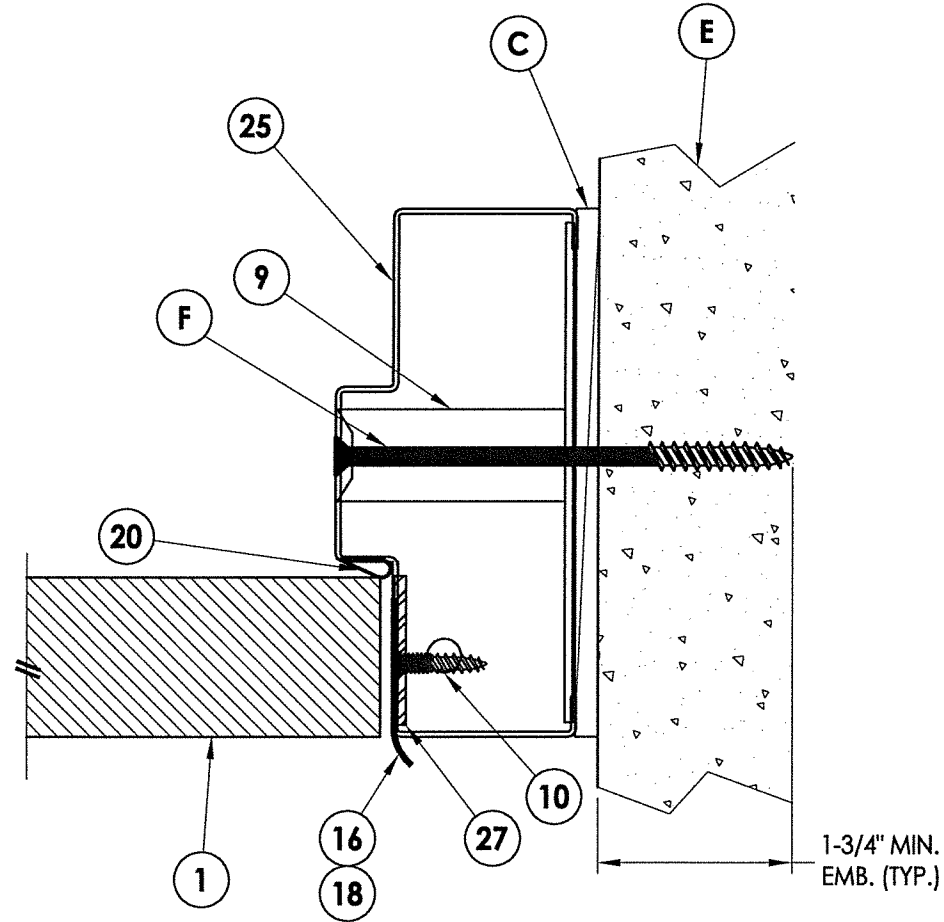
PRODUCT: PREMIER PRODUCTS, INC. "D" STEEL DOOR	
PART OR ASSEMBLY: DOOR PANEL SECTIONS 86E MORTISE LOCK PREP	
NO.	DATE
BY	REVISIONS
DATE: 11/10/22	
SCALE: N.T.S.	
DWG. BY: LFS	
CHK. BY: RW	
DRAWING NO.: FL-41788.17	
SHEET 3 OF 11	



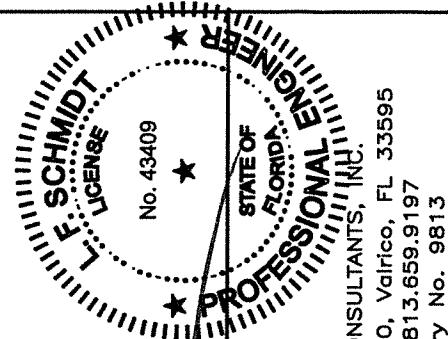
INTERIOR

EXTERIOR

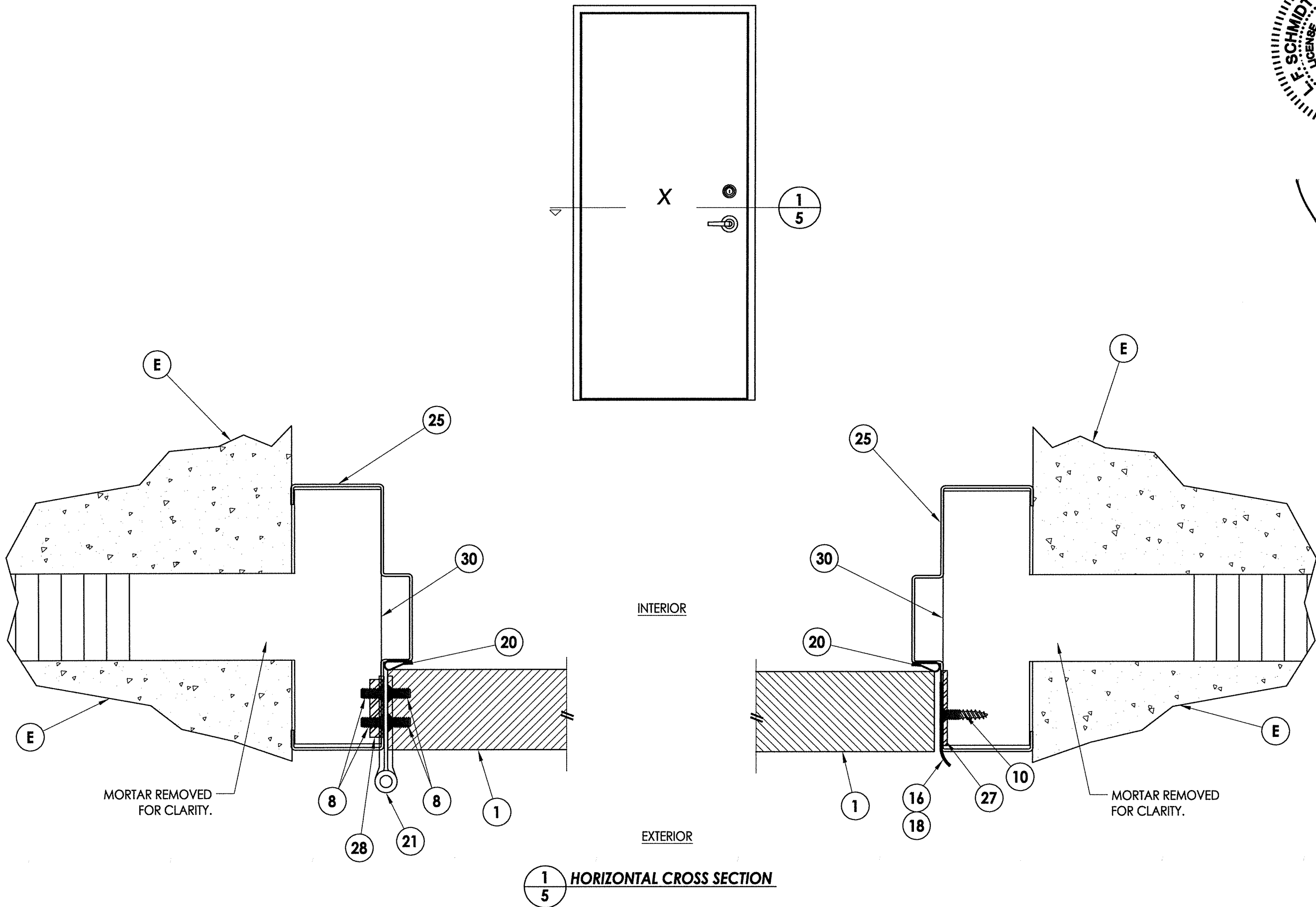
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**4** HORIZONTAL CROSS SECTION



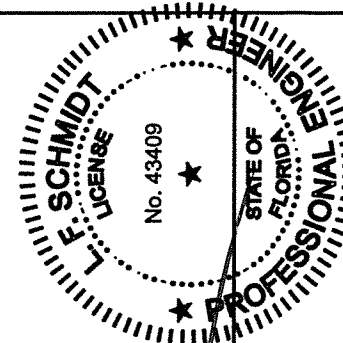
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PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
NO.	DATE
BY	BY
REVISIONS	
DATE: 11/10/22	
SCALE: N.T.S.	
DWG. BY: LFS	
CHK. BY: RW	
DRAWING NO.: FL-41788.17	
SHEET 4 OF 11	



November 15, 2022  
 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



**1**  
**5** HORIZONTAL CROSS SECTION



*LFS*  
November 15, 2022

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:  
PREMIER PRODUCTS, INC.  
"D" STEEL DOOR

PART OR ASSEMBLY:  
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 11/10/22

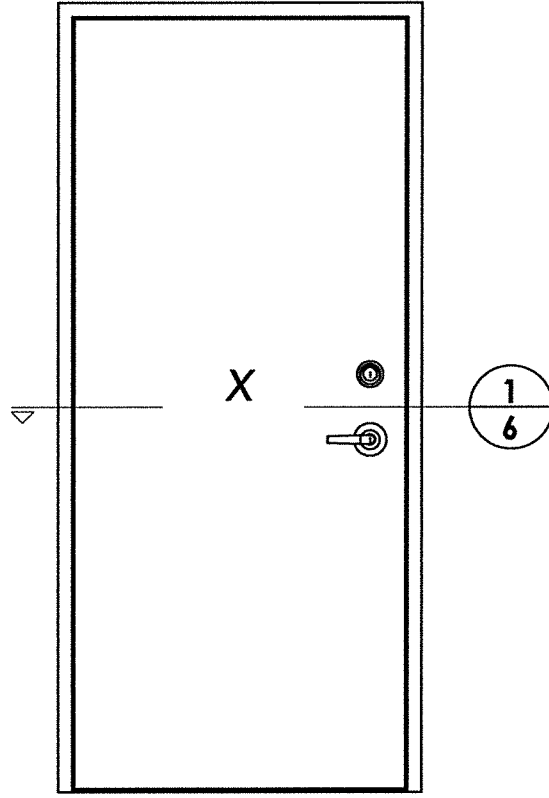
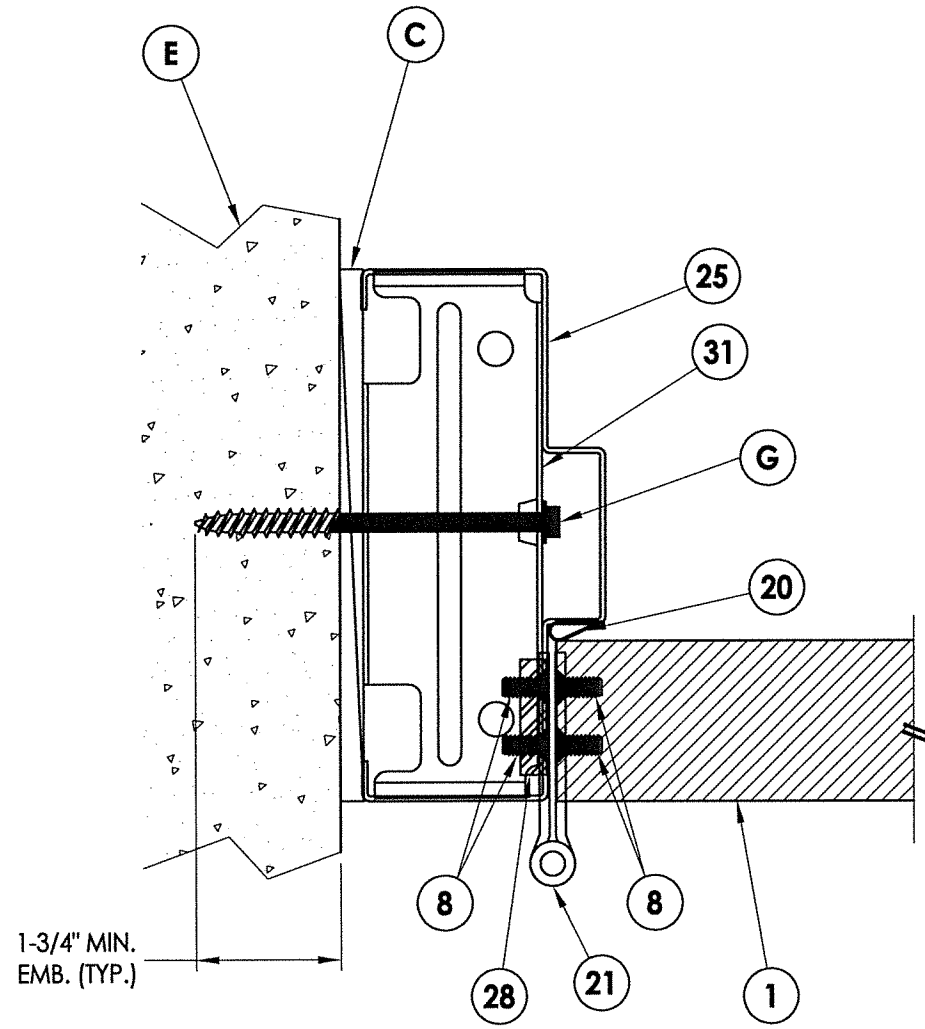
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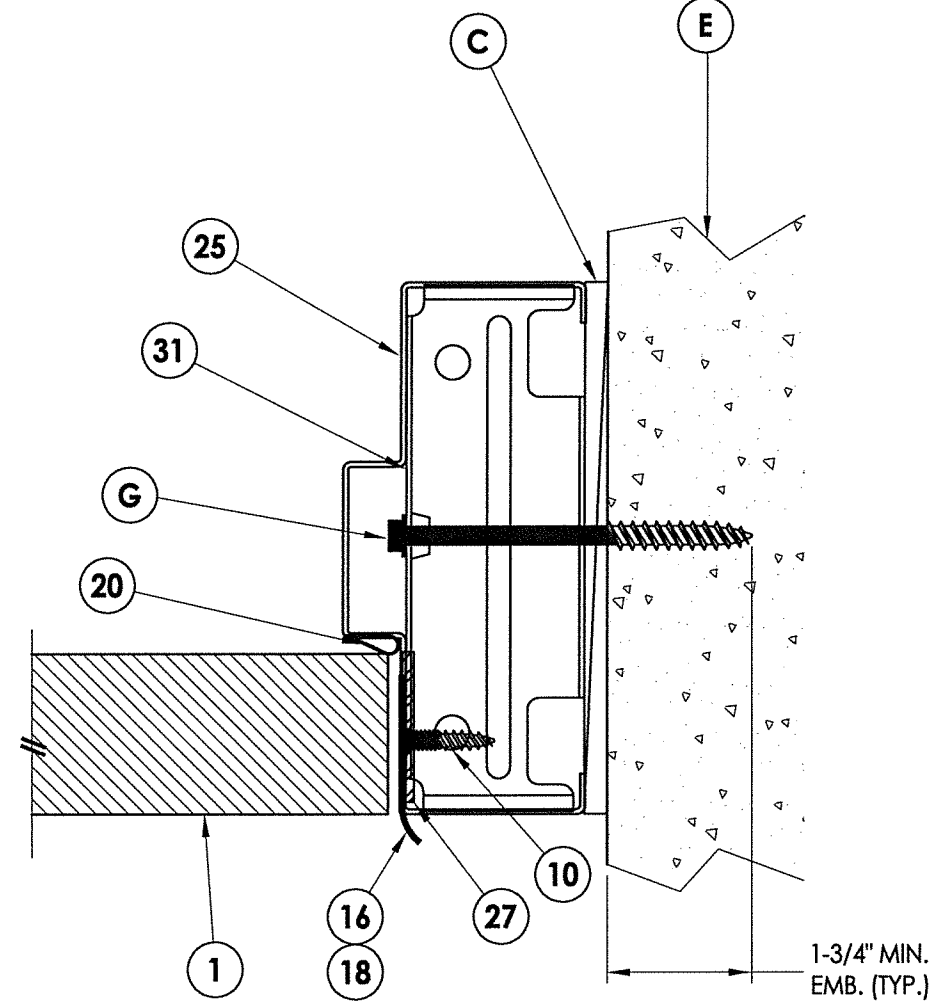
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SHEET 5 OF 11

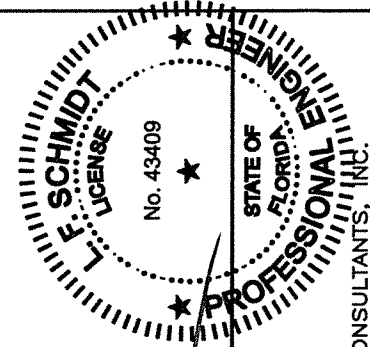


INTERIOR

EXTERIOR



**1/6 HORIZONTAL CROSS SECTION**



*LFS*  
 November 15, 2022  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409

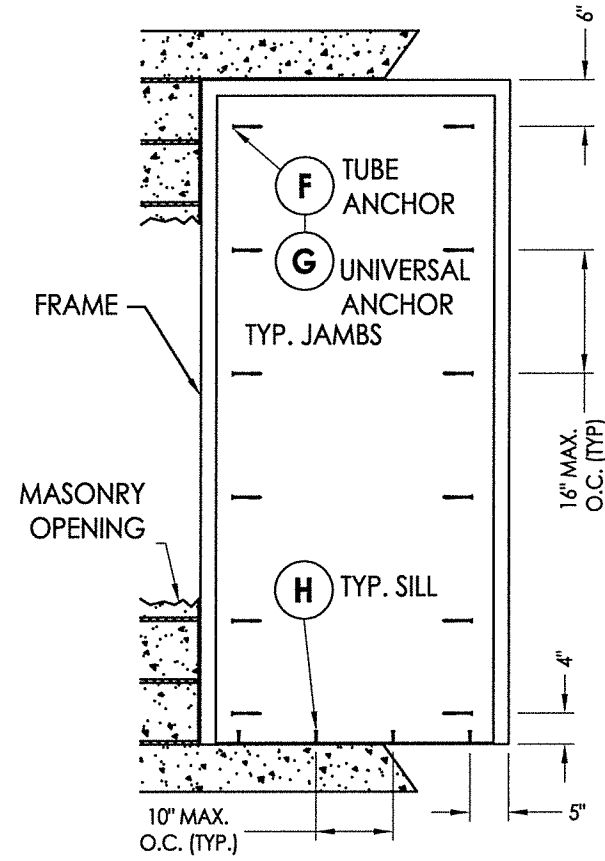
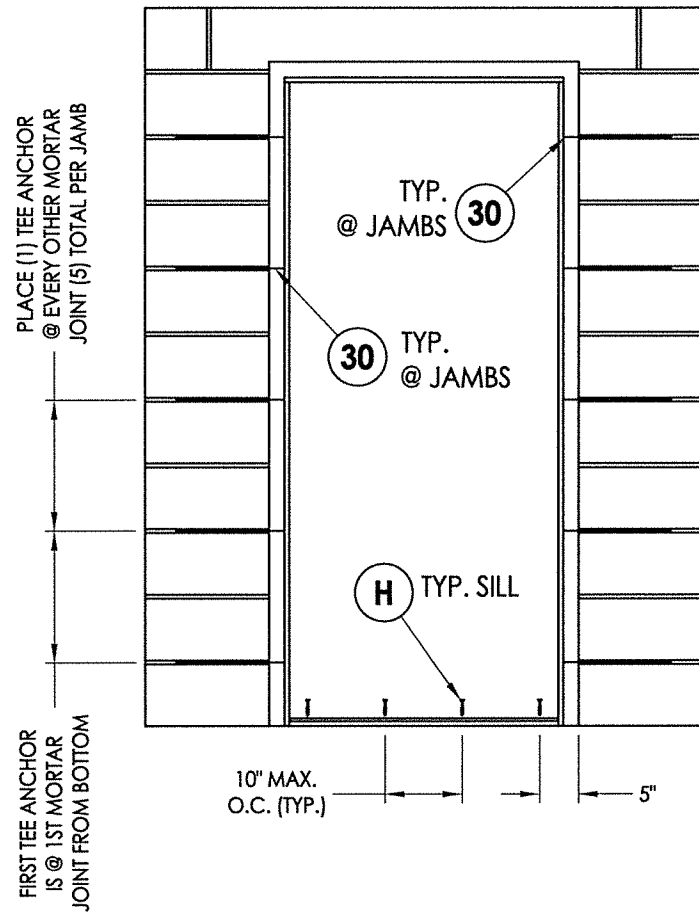
*RW*  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT:  
 PREMIER PRODUCTS, INC.  
 "D" STEEL DOOR  
 PART OR ASSEMBLY:  
 HORIZONTAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 11/10/22  
 SCALE: N.T.S.  
 DWG. BY: LFS  
 CHK. BY: RW  
 DRAWING NO.: FL-41788.17  
 SHEET 6 OF 11



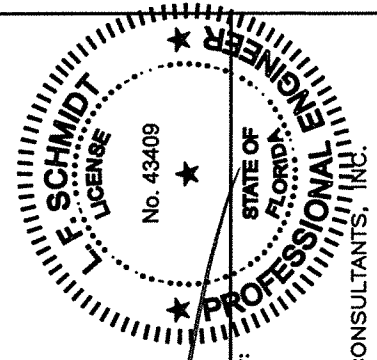


**CONCRETE ANCHOR NOTES:**

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"	2-1/2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	2-1/2"	4"
ITW TAPCON® XL	5/16"	1-3/4"	2-1/2"	5"
DeWALT ULTRACON®	5/16"	1-3/4"	3-1/8"	5"

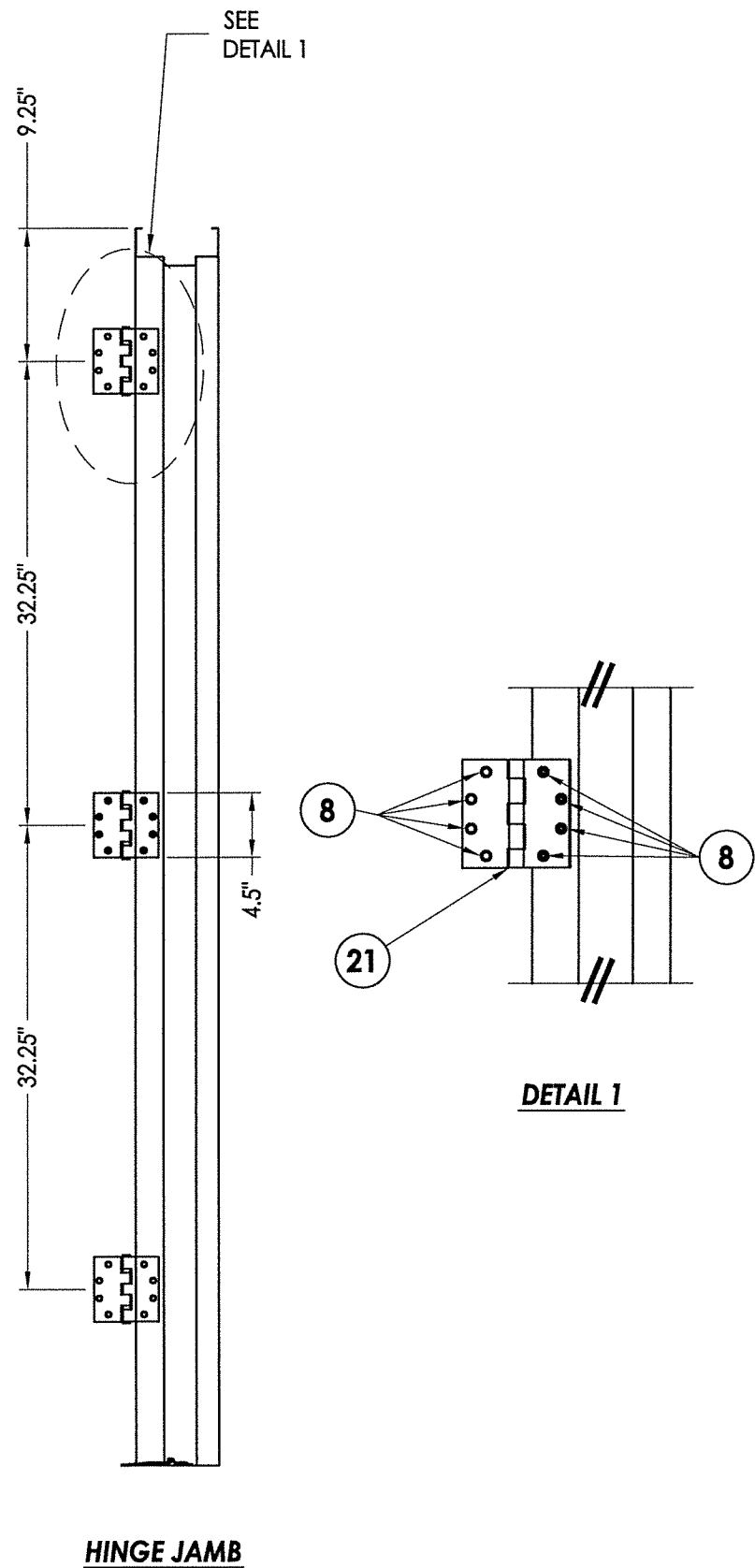
4. Embedment may be through 1-1/4" face shell of hollow block.



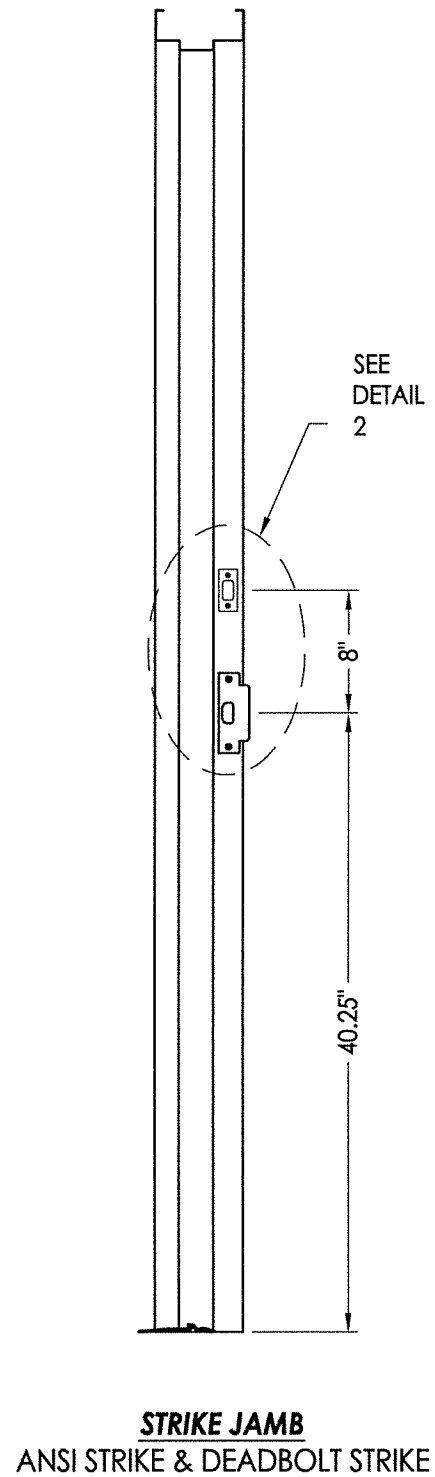
*LFS*  
 November 15, 2022  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409  
 R.W. BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT: PREMIER PRODUCTS, INC. "D" STEEL DOOR	
PART OR ASSEMBLY: FRAME ANCHORING	
NO. DATE	
NO.	DATE
BY	REVISIONS
DATE: 11/10/22	
SCALE: N.T.S.	
DWG. BY: LFS	
CHK. BY: RW	
DRAWING NO.: FL-41788.17	
SHEET 8 OF 11	

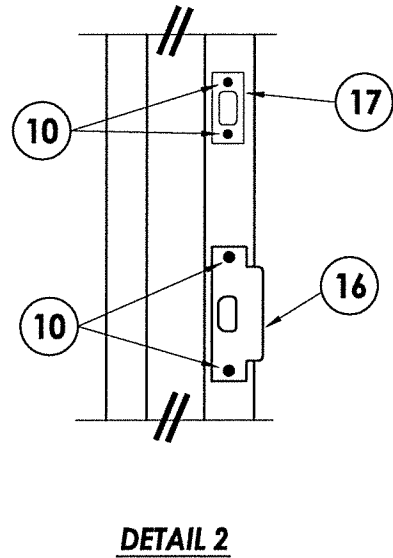




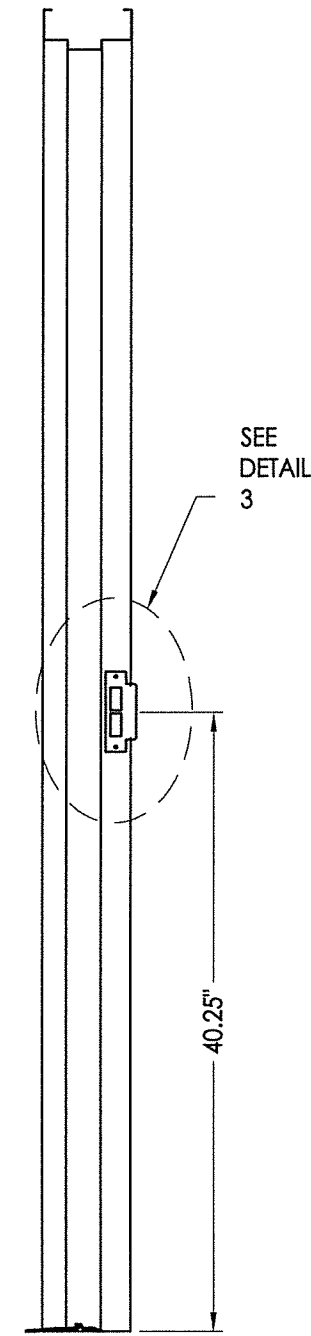
HINGE JAMB



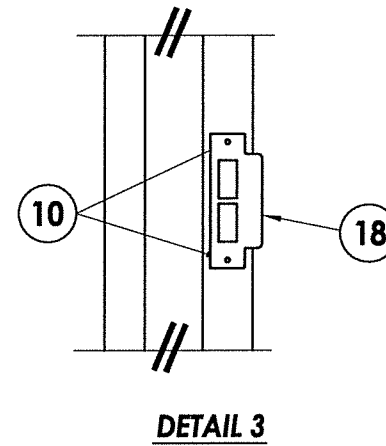
STRIKE JAMB  
ANSI STRIKE & DEADBOLT STRIKE



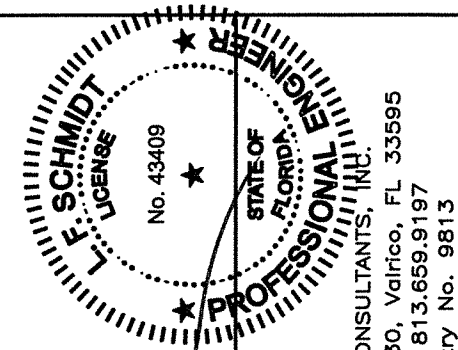
DETAIL 2



STRIKE JAMB  
MORTISE STRIKE



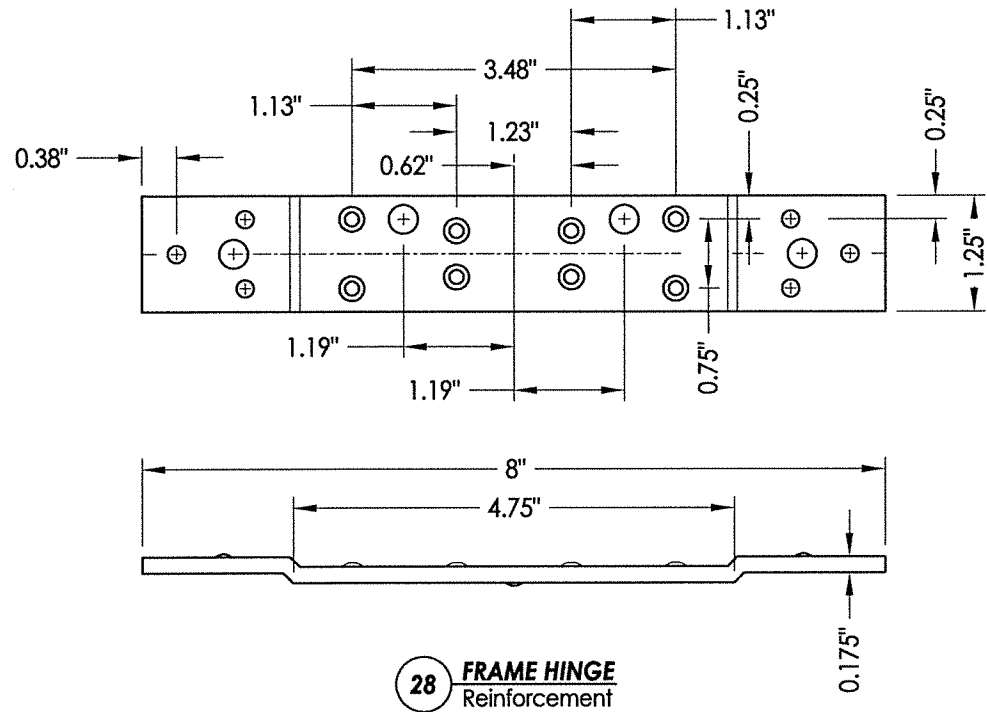
DETAIL 3



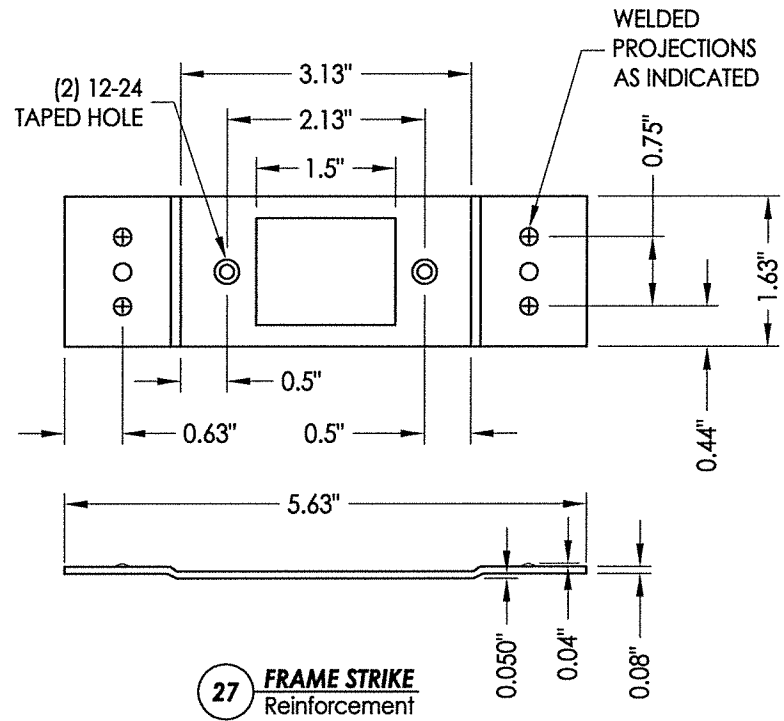
November 15, 2022  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409

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

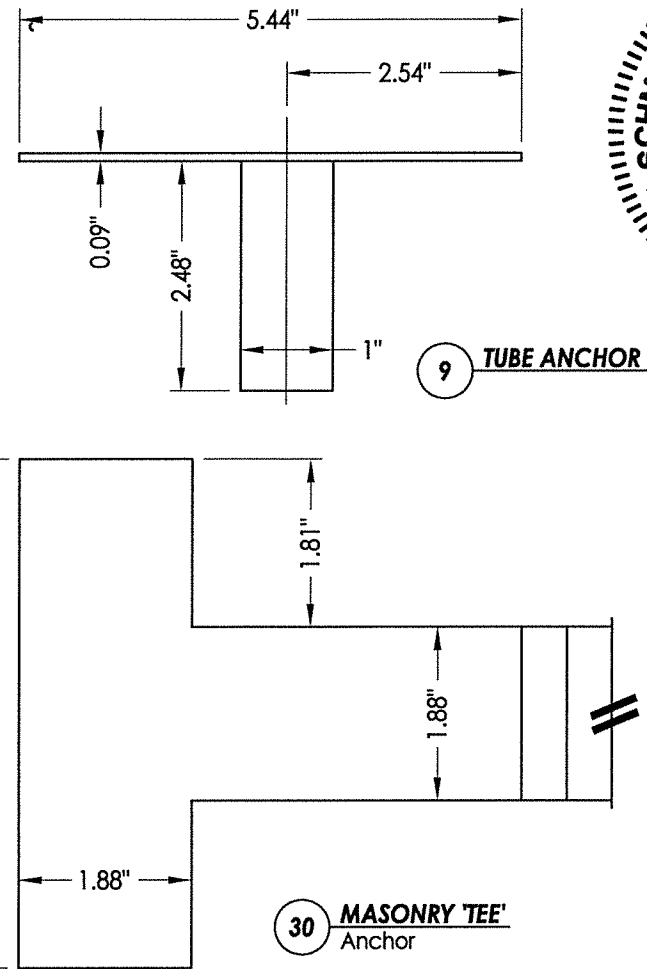
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PART OR ASSEMBLY: ANCHORING DETAILS		
NO.	DATE	BY
REVISIONS		
DATE:	11/10/22	
SCALE:	N.T.S.	
DWG. BY:	LFS	
CHK. BY:	RW	
DRAWING NO.:	FL-41788.17	
SHEET	9	OF 11



28 FRAME HINGE Reinforcement

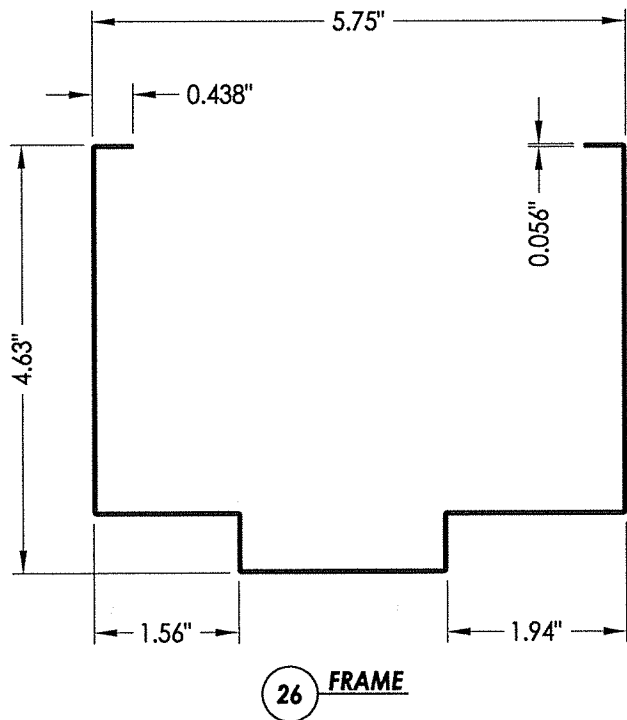


27 FRAME STRIKE Reinforcement

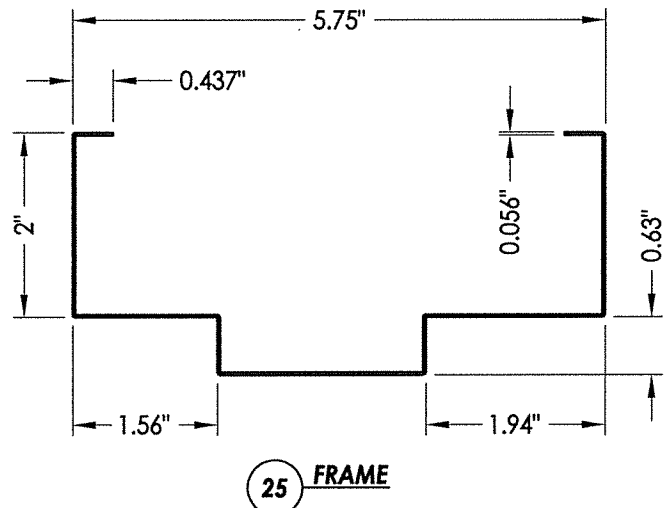


9 TUBE ANCHOR

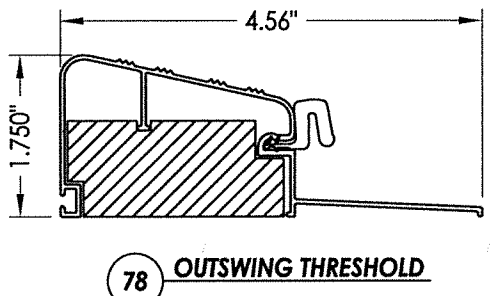
30 MASONRY TEE Anchor



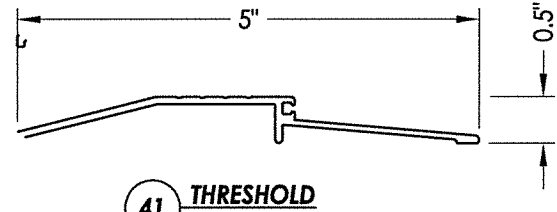
26 FRAME



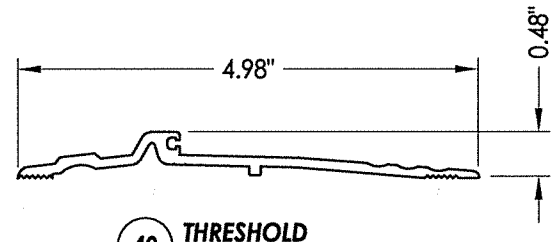
25 FRAME



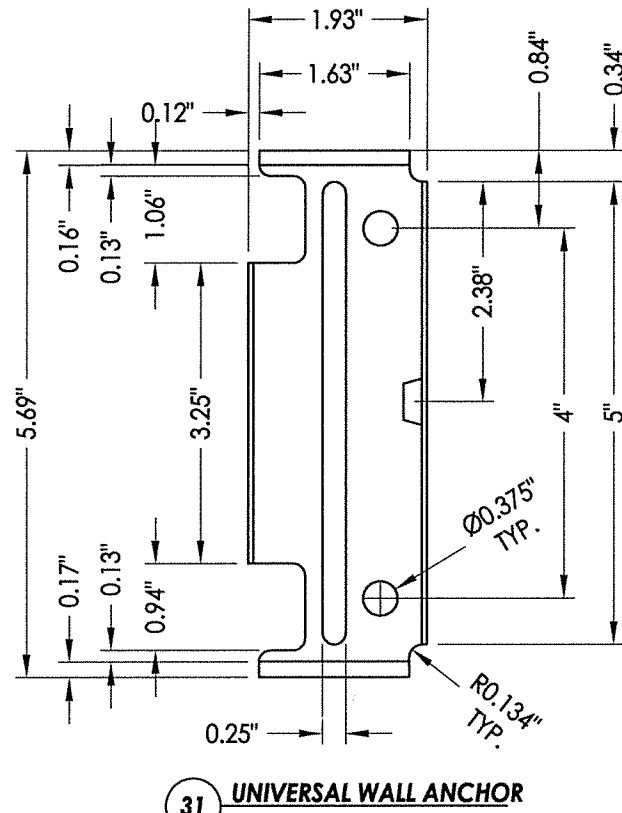
78 OUTSWING THRESHOLD



41 THRESHOLD



40 THRESHOLD



31 UNIVERSAL WALL ANCHOR

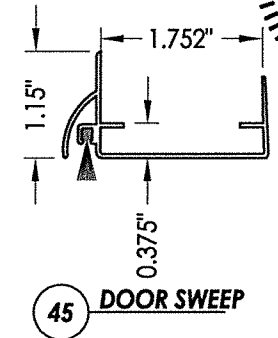
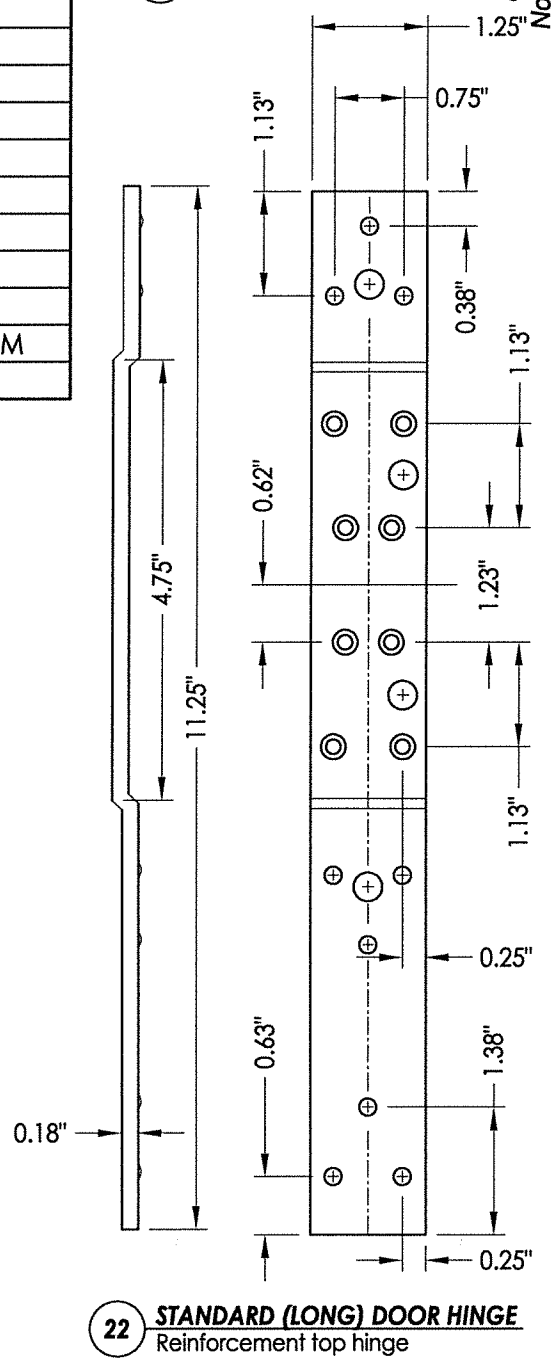
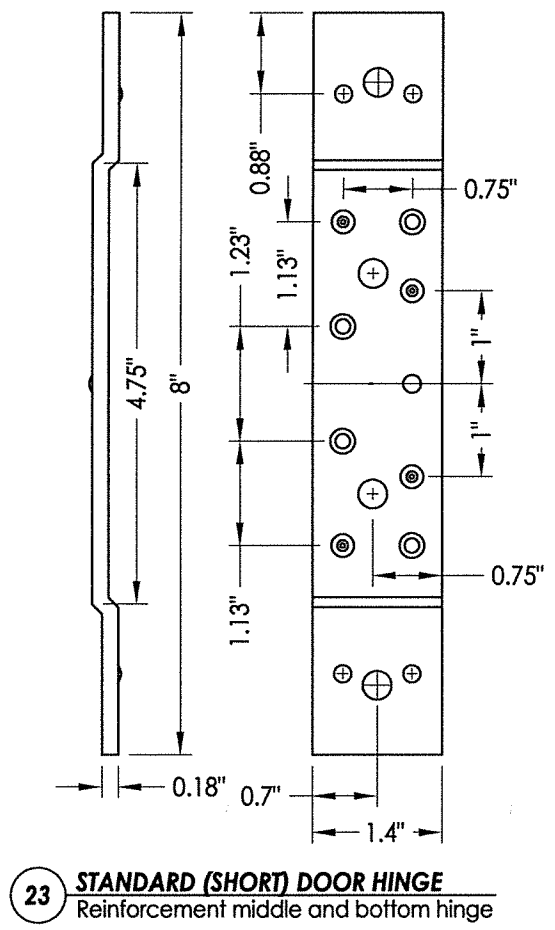
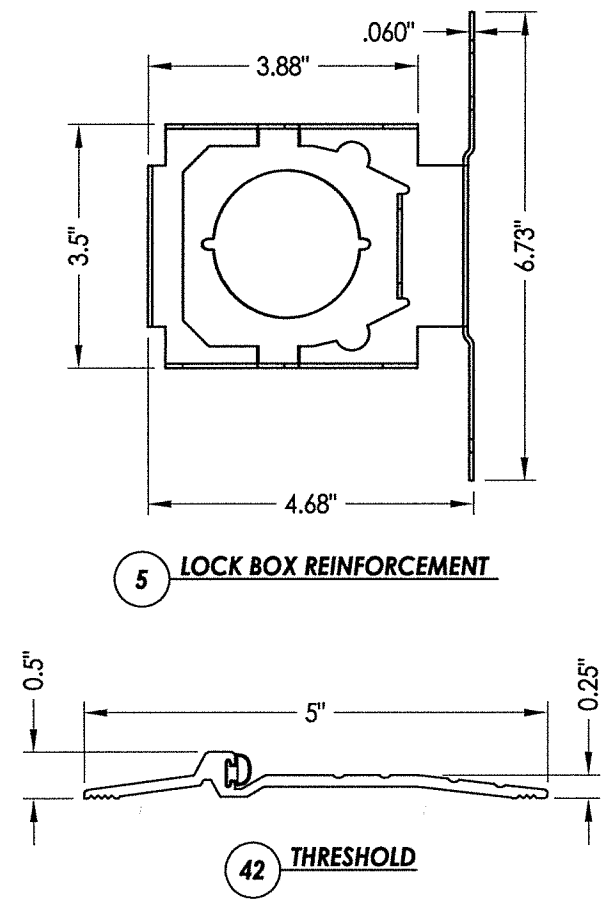
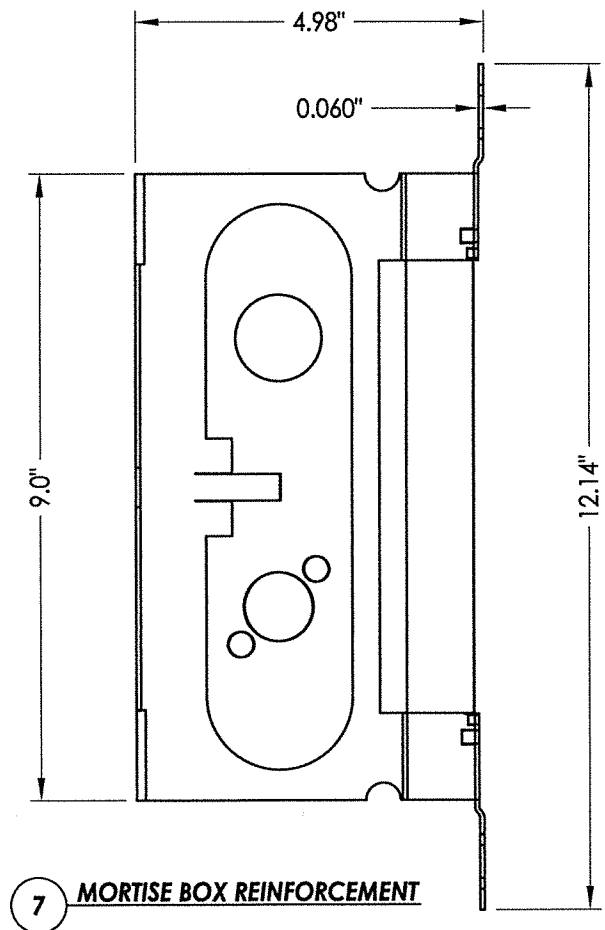
Professional Engineer Seal for Lyndon F. Schmidt, No. 43409, State of Florida. Includes contact information for RW Building Consultants, Inc. and a signature.

Table with columns for PRODUCT (PREMIER PRODUCTS, INC. 'D' STEEL DOOR), PART OR ASSEMBLY (COMPONENTS), NO., DATE, REVISIONS, and BY.

Z:\Clients\Premier Products PERMANENT\A - Florida Product Approvals\FL-41788\C - Drawings\FL-41788-18-3-23.dwg

**BILL OF MATERIALS**

ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
F	5/16" x 5" PFH ITW OR DeWALT PFH CONCRETE SCREW	STEEL	25	FRAME 5-3/4" MIN. (0.056" THK) BY MESKER	STEEL
G	5/16" x 4" HWH DeWALT OR ITW CONCRETE SCREW	STEEL	26	FRAME 5-3/4" MIN. WITH 4" HEAD	STEEL
H	1/4" x 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	27	STRIKE REINFORCEMENT	STEEL
1	"D" OPAQUE STEEL DOOR PANEL	-	28	FRAME HINGE REINFORCEMENT	STEEL
2	DOOR SKIN (0.055" THK. STEEL, Fy = 40,317 PSI MIN.)	STEEL	30	MASONRY 'TEE' ANCHOR (MESKER PFMT5)	STEEL
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	31	UNIVERSAL WALL ANCHOR	STEEL
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 #2005V	ALUMINUM
7	MORTISE BOX REINFORCEMENT	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
8	#12-24 x 1/2" SELF TAPPING	STEEL	46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
9	TUBE ANCHOR	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
11	DOOR STILE EDGE REINFORCEMENT (D DOOR)	STEEL	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
16	ANSI LATCH STRIKE	STEEL	73	86E MORTISE LOCK- ONITY CT SERIES	STEEL
17	DEADBOLT STRIKE	STEEL	74	86E MORTISE LOCK- ONITY HT SERIES	STEEL
18	ANSI MORTISE STRIKE	STEEL	75	86E MORTISE LOCK- ONITY ADVANCE SERIES	STEEL
20	WEATHER-STRIP	NEOPRENE	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL	78	OUTSWING THRESHOLD BY DLP #QOSH	ALUMINUM
			79	WEATHER-STRIP	FOAM



**F. SCHMIDT**  
LICENSE  
No. 43409  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

November 15, 2022  
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

**R.W.**  
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: BILL OF MATERIALS & COMPONENTS	
NO.	DATE	BY	REVISIONS
DATE: 11/10/22		SCALE: N.T.S.	
DWG. BY: LFS		CHK. BY: RW	
DRAWING NO.: FL-41788.17		SHEET 11 OF 11	