

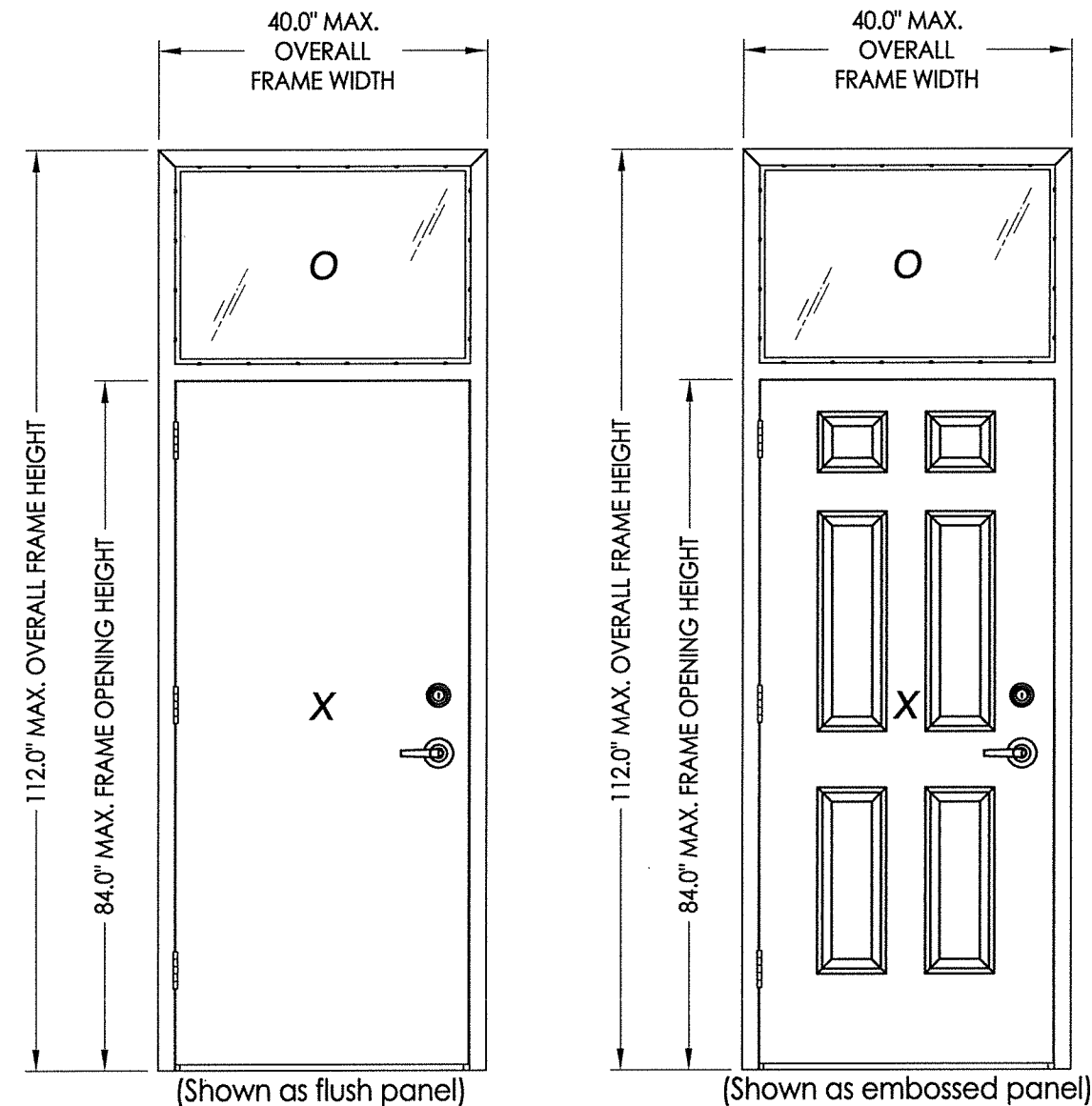
3228 6th AVENUE NORTH
P.O. BOX 635
BIRMINGHAM, AL 35201

**"D" SERIES
COMMERCIAL STEEL DOOR
w/ TRANSOM
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 or #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.

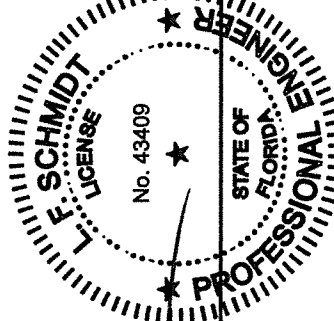
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel sections 161 lock prep
3	Horizontal cross sections
4	Vertical cross sections
5	Anchoring details
6	Glazing detail & components
7	Bill of materials & components



OVERALL FRAME DIMENSION	TRANSOM D.L.O. DIMENSION	LOCK TYPE	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
40.0" x 112.0"	34.75" x 22.75"	161 LATCH (SCHLAGE)	G1	+55.0	-55.0
		161 LATCH & DEADBOLT (DESIGN HARDWARE)		+65.0	-65.0

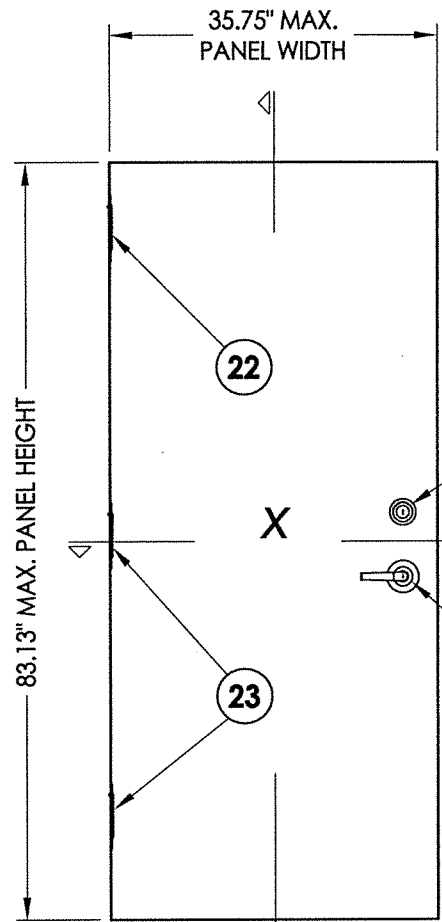

October 6, 2020

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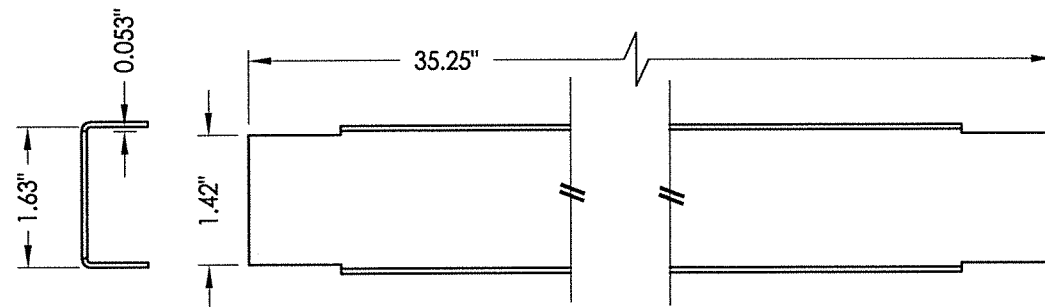


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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

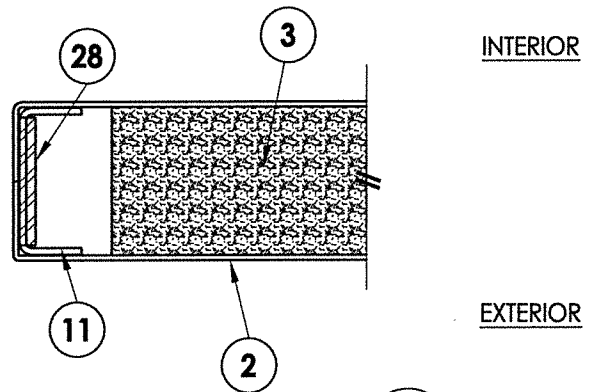
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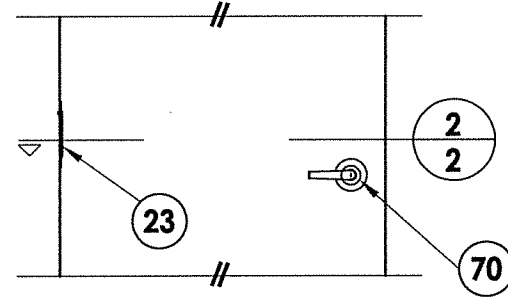
1 "D" OPAQUE STEEL DOOR PANEL



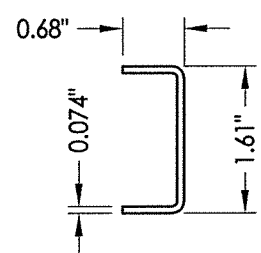
4 DOOR TOP & BOTTOM CLOSER



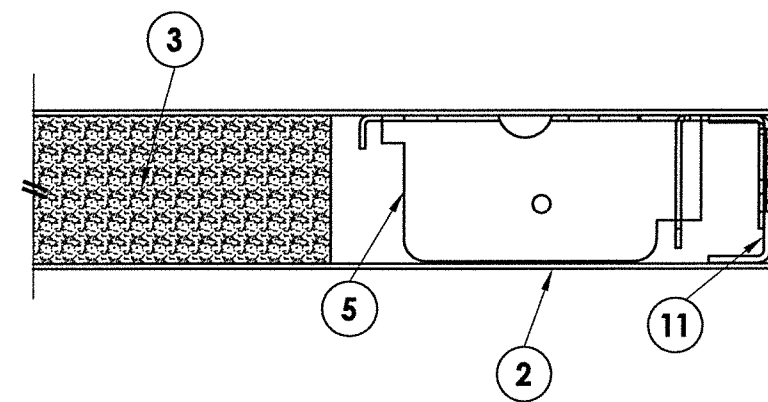
2 HORIZONTAL CROSS SECTION
2 Door panel



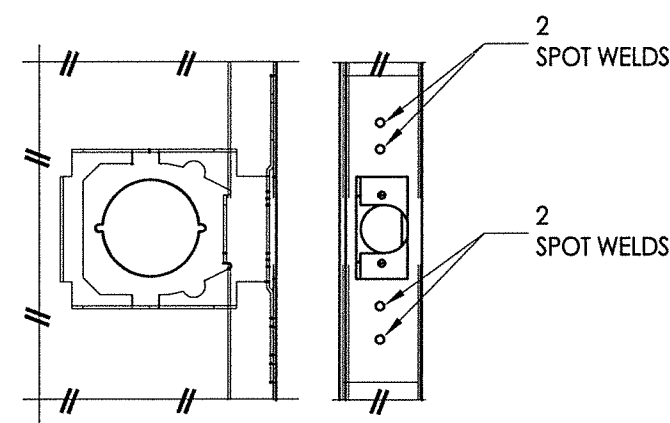
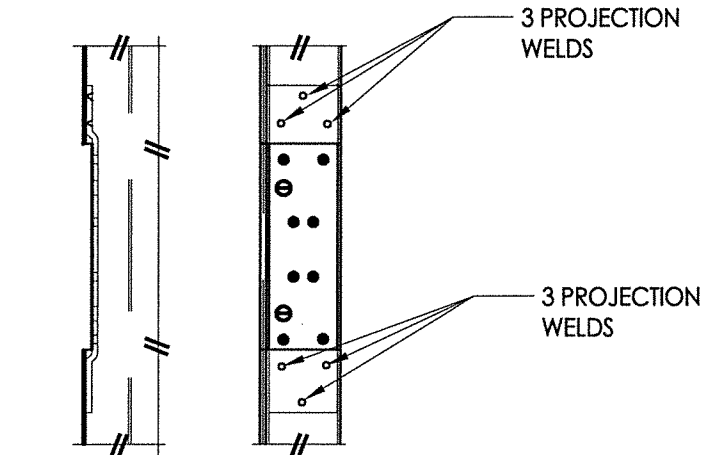
70 OPTIONAL LATCH ONLY



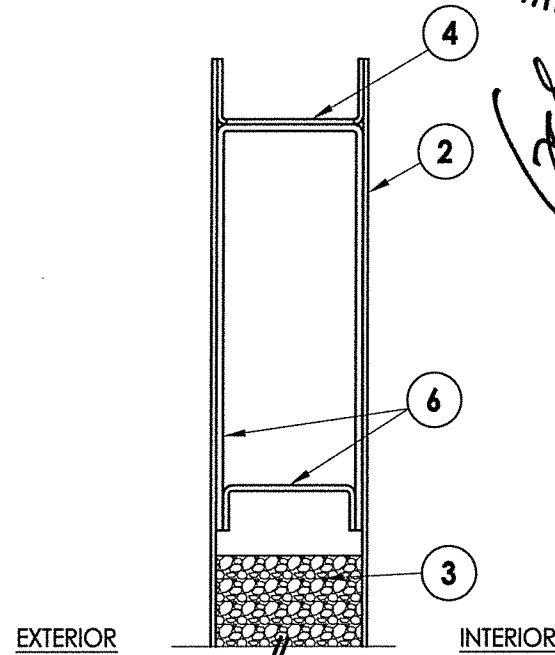
11 DOOR STILE EDGE Reinforcement



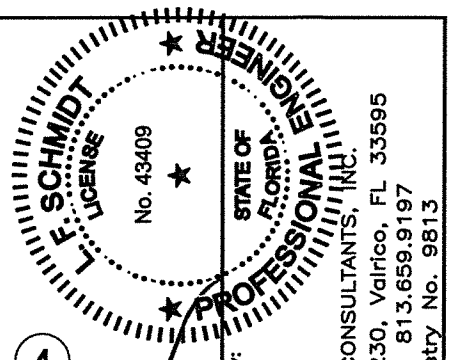
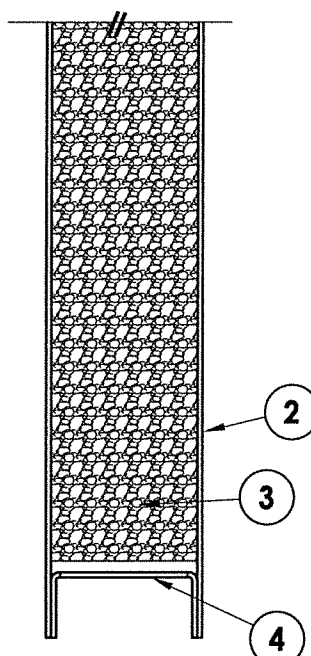
23 DOOR HINGE REINFORCEMENT



5 LOCK BOX REINFORCEMENT

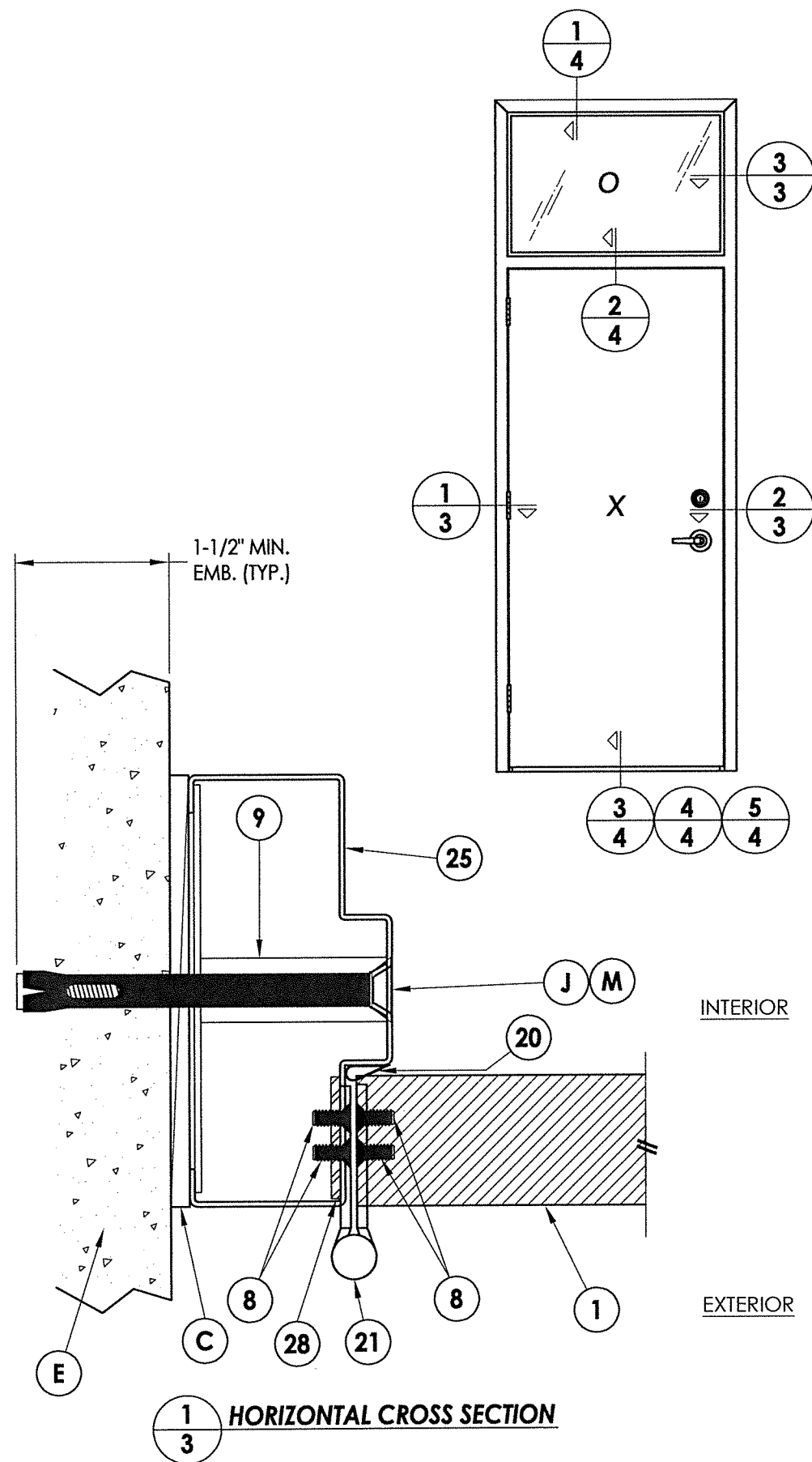


1 VERTICAL CROSS SECTION
2 Door panel

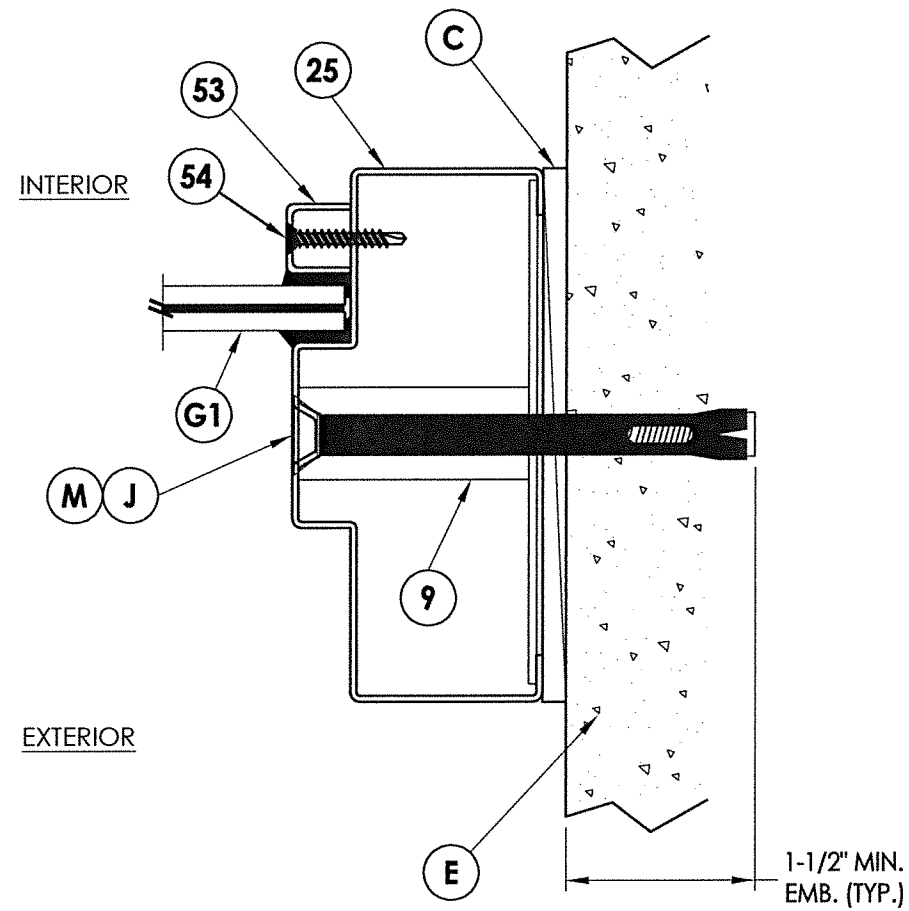


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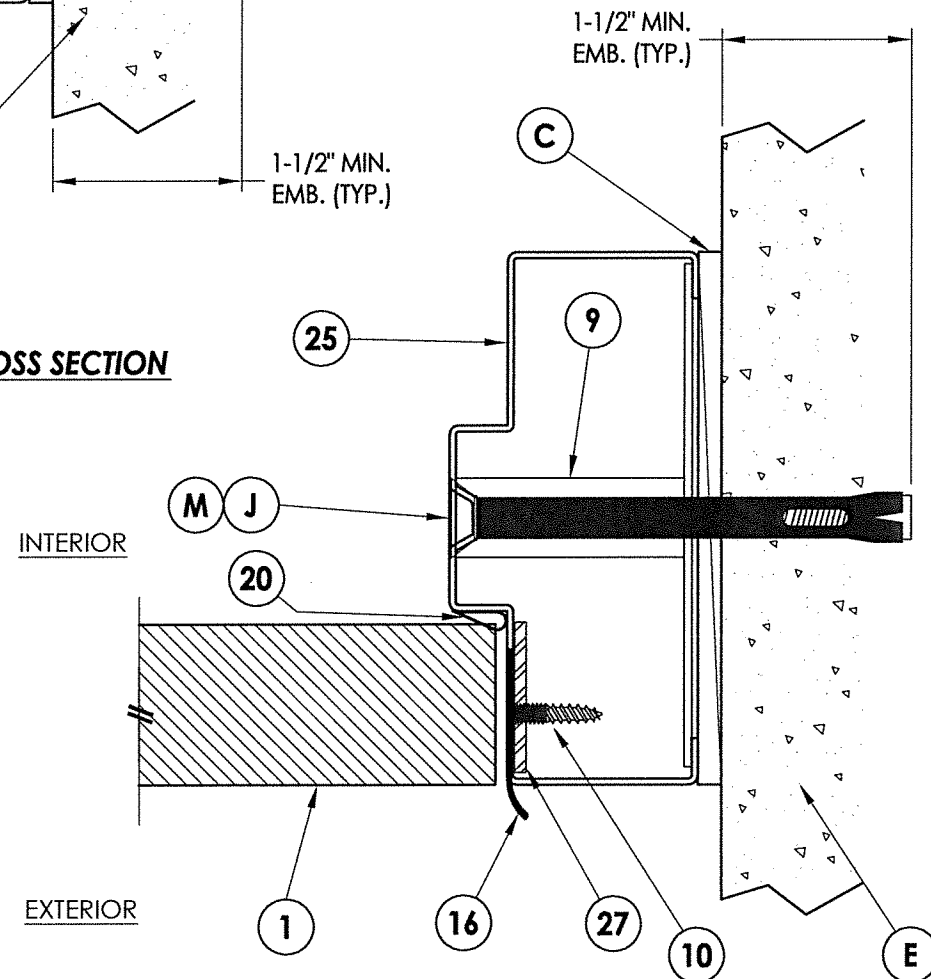
PRODUCT:		MEGAMET INDUSTRIES, INC.		"D" STEEL DOOR	
PART OR ASSEMBLY:		DOOR PANEL SECTIONS		161 LOCK PREP	
DATE:		3	10/05/20	UPDATE TO 7TH ED. (2020)	FBC LFS
SCALE:		2	10/16/17	UPDATE TO 6TH ED. (2017)	FBC LFS
DWG. BY:		1	1/06/15	UPDATE TO 5th ED. (2014)	FBC LFS
CHK. BY:		NO.		DATE	BY
DRAWING NO.:		REVISIONS			
FL-16494.10					
SHEET 2 OF 7					



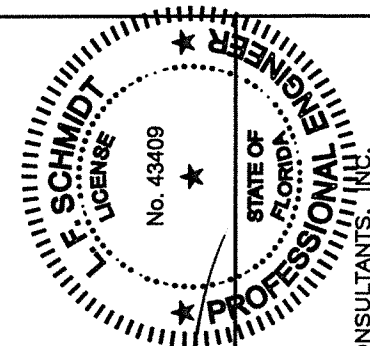
1 **HORIZONTAL CROSS SECTION**
3



3 HORIZONTAL CROSS SECTION



2 HORIZONTAL CROSS SECTION



October 6, 2020

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PRODUCT: MEGAMET INDUSTRIES, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

[illegible]

FIG. 1 is a cross-sectional view of a vehicle body structure. It shows an exterior panel (15) and an interior panel (12) joined by a spot weld. A vertical member (G1) is attached to the interior panel. A screw (54) is used to secure a component (53) to the interior panel. A hatched area (20) represents the exterior of the vehicle, and a hatched area (1) represents the interior. The labels "EXTERIOR" and "INTERIOR" are at the bottom.

Technical drawing of a door threshold cross-section. The drawing is divided into two main regions: **EXTERIOR** on the left and **INTERIOR** on the right. A vertical door frame is shown in the center, with a break symbol (two parallel diagonal lines) indicating it continues. The threshold assembly is labeled with circled numbers: **1** points to the interior side of the frame, **24** points to the threshold body, **40** points to the weatherstripping, **41** points to the threshold base, and **42** points to the threshold cap. A label **H** points to the threshold base. A label **E** points to the exterior ground surface. A dimension line on the left indicates a minimum embedding depth of **1-1/4" MIN. EMB. (TYP.)**.

Technical drawing of a door threshold cross-section. The drawing is divided into two main sections: **EXTERIOR** on the left and **INTERIOR** on the right. The threshold is shown as a vertical assembly. Key components are labeled with circled numbers and letters: **1** (main threshold body), **24** (adjustable stop), **40**, **41**, and **42** (sealing components), **H** (hardware), and **E** (concrete base). On the exterior side, **45** points to a small component and **46** points to a larger component. A vertical dimension line on the far left indicates a minimum embedding depth of **1-1/4" MIN. EMB. (TYP.)**. The concrete base is shown with aggregate and a rebar. A break symbol (//) is at the top of the threshold.

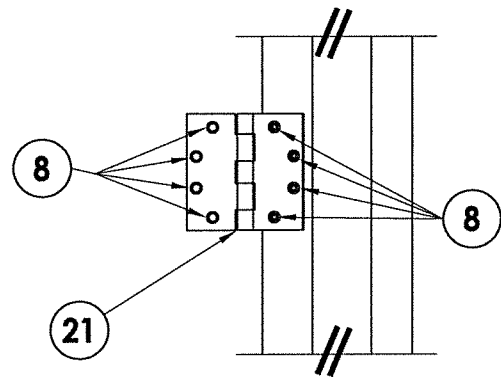
Diagram illustrating the cross-section of a window installation, showing the exterior and interior views. The diagram includes labels for various components:

- 1**: Exterior wall.
- 79**: Weatherstripping.
- 78**: Interior trim.
- E**: Concrete foundation.
- H**: Insulation.

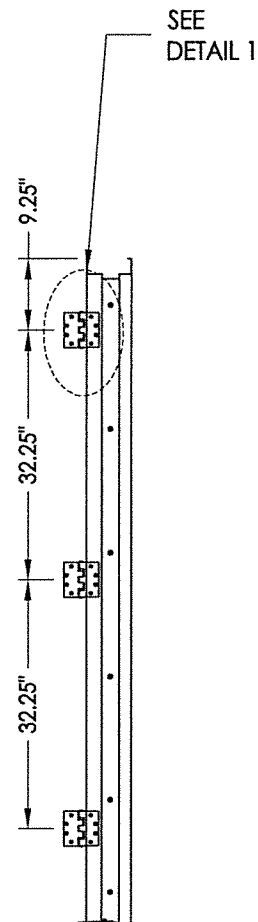
A dimension line indicates a minimum height of 1-1/4" MIN. for the exterior wall above the foundation.

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R:\Clients\Megamet Permanent\A - Florida Product Approvals\FL-16494\C - Drawings\FL-16494.1-13.dwg, 5:10

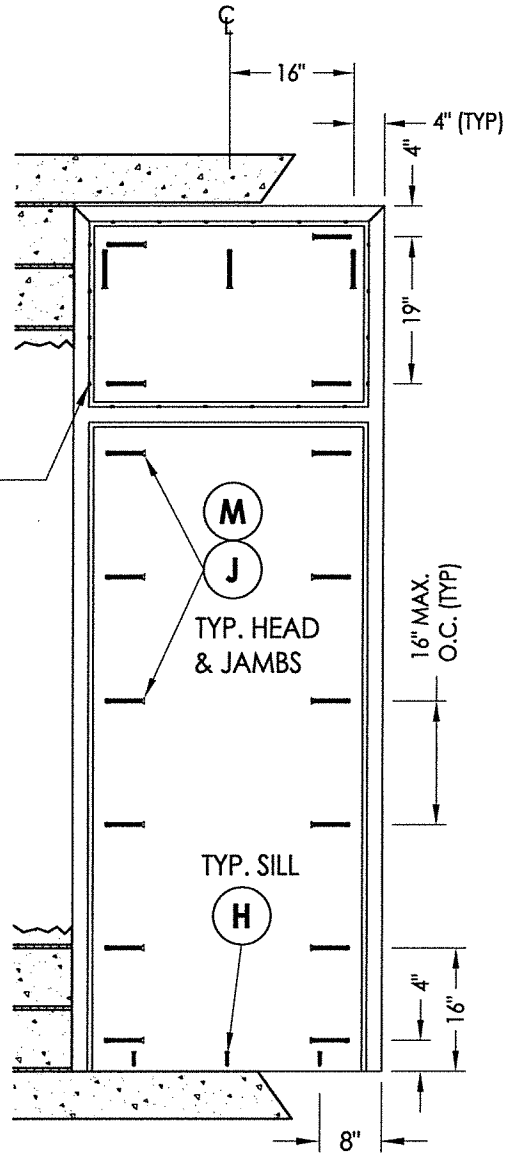


DETAIL 1

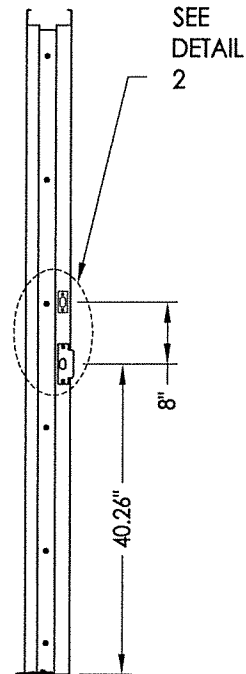


HINGE JAMB

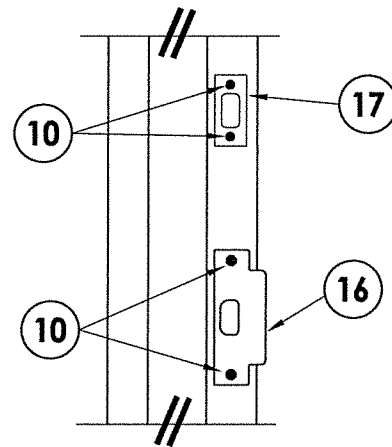
ITEM #44 GLASS STOP
RETAINING SCREW
3" FROM CORNER
6" MAX ON CENTER



FRAME ANCHORING



STRIKE JAMB

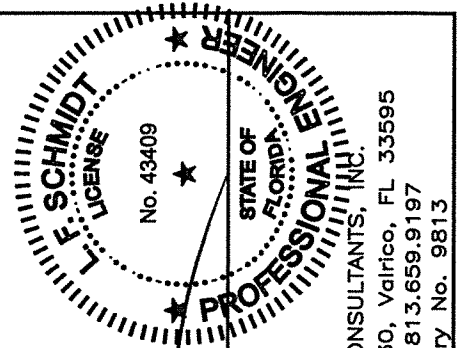


DETAIL 2

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"



October 6, 2020

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PRODUCT:
MEGAMET INDUSTRIES, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:
ANCHORING DETAILS

REVISIONS

NO.	DATE	REVISIONS
3	10/05/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	10/16/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	1/06/15	UPDATE TO 5th ED. (2014) FBC LFS

DATE: 7/17/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16494.10

SHEET 5 OF 7

Technical drawing of a stepped profile with the following dimensions:

- Overall width: 5.87"
- Overall height: 2.7"
- Top right corner radius: 0.5"
- Inner corner radius: 0.056"
- Bottom left segment width: 1.85"
- Bottom right segment width: 2.01"

Technical drawing of a rectangular component with dimensions in inches. The drawing includes a top view and a side view.

Top View Dimensions:

- Overall width: 1.63"
- Overall height: 7.63"
- Central cutout width: 1.25"
- Central cutout height: 3.5"

Side View Dimensions:

- Overall width: 1.19"
- Overall height: 5.5"
- Central cutout width: 1.07"
- Central cutout height: 3.5"
- Small rectangular feature width: 0.08"
- Small rectangular feature height: 0.19"

Technical drawing of a mechanical part, showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 1.25"
- Overall height: 4.11"
- Top section height: 1.12"
- Bottom section height: 0.52"
- Radius: R0.13"
- Internal features: Two small circles (possibly holes or pins) in the top section, and one larger circle (hole) in the bottom section.

Side View Dimensions:

- Overall height: 1.56"
- Bottom section height: 0.97"
- Bottom flange thickness: 0.08"

Technical drawing of a rectangular plate with a longitudinal slot and a circular hole pattern. The drawing includes a side view and a top view.

Side View Dimensions:

- Slot width: 4.75"
- Slot depth: 8"

Top View Dimensions:

- Plate thickness: 0.18"
- Slot width: 0.7"
- Hole pattern diameter: 1.4"
- Vertical spacing between hole rows: 1.13", 1.23", 1.13", 1.13"
- Horizontal spacing between hole columns: 0.75", 0.75"
- Horizontal offset from slot edge to hole column: 0.88"
- Vertical offset from slot edge to hole row: 1"

0.5" GLASS BITE

INTERIOR

EXTERIOR

53

54

0.56" THK.

1/4" HEAT STRENGTHENED

0.090" SAFLEX® P INTERLAYER

1/4" HEAT STRENGTHENED

81

G1 GLAZING DETAIL
 9/16" Monolithic glass
 Produced by Old Castle

F. SCHMIDT
 LICENSE

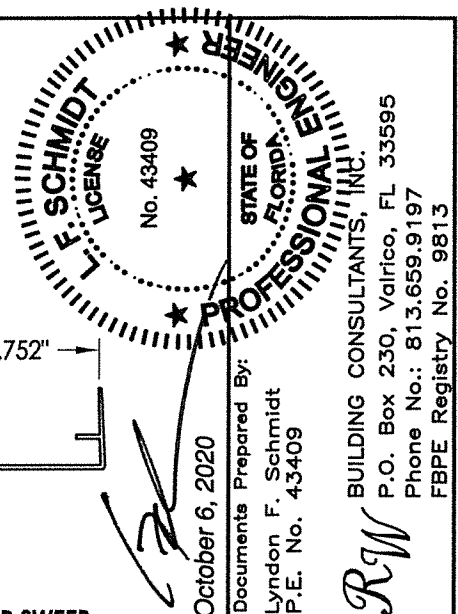
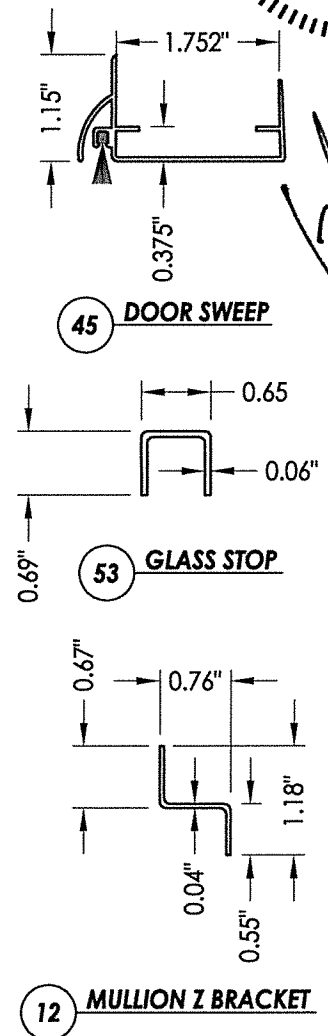
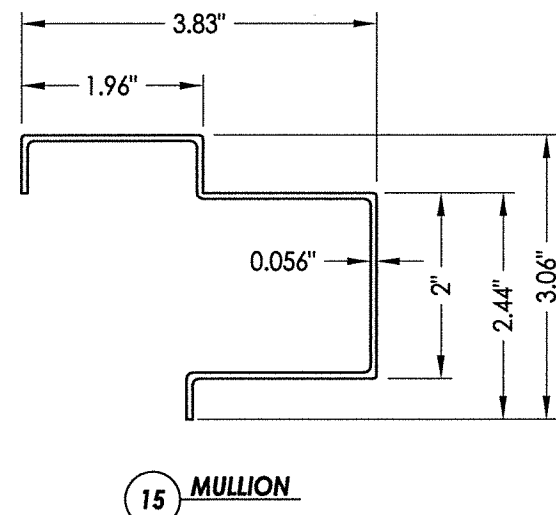
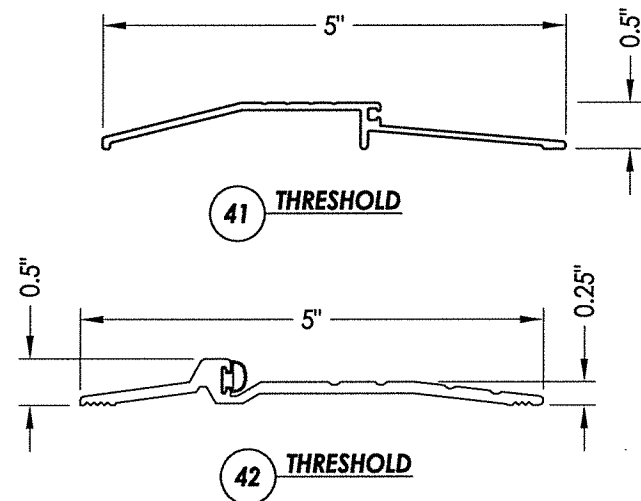
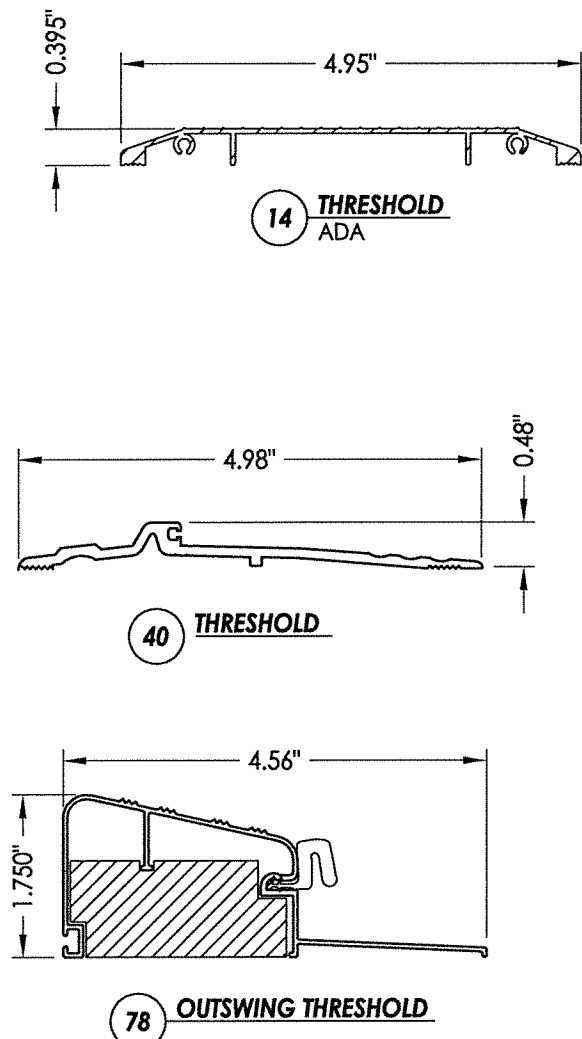
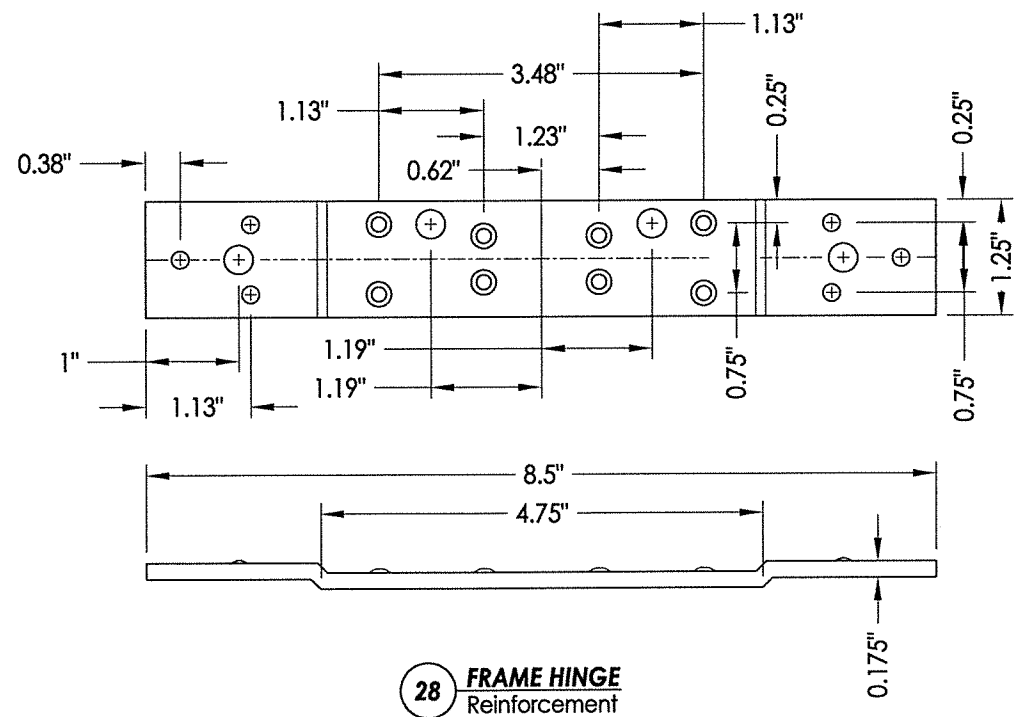
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FBPE Registry No. 9813

PART OR ASSEMBLY:
**GLAZING DETAIL
& COMPONENTS**

DATE:	7/17/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-16494.10
SHEET	6 OF 7

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
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL	25	FRAME 5-3/4" X 2" MIN. (0.056" THK)	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL	27	LATCH STRIKE REINFORCEMENT	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL	28	FRAME HINGE REINFORCEMENT	STEEL
1	"D" OPAQUE STEEL DOOR PANEL	-	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
2	DOOR SKIN (0.055" THK. STEEL, Fy = 40,317 PSI MIN.)	STEEL	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	42	OUTSWING THRESHOLD PEMKO #2005V	ALUMINUM
4	DOOR TOP & BOTTOM CLOSER	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
5	LOCK BOX REINFORCEMENT	STEEL	46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
6	CLOSER REINFORCEMENT	STEEL	53	U-CHANNEL GLASS STOP	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL	54	#8 X 1.25" PFH SHEET METAL SCREW	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
12	MULLION Z BRACKET	STEEL	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
15	MULLION MIN. (0.056" THK)	STEEL	78	OUTSWING THRESHOLD QOSH BY DLP	ALUM/WOOD
16	ANSI LATCH STRIKE	STEEL	79	WEATHER-STRIP	FOAM
17	DEADBOLT STRIKE	STEEL	81	DOW 995 STRUCTURAL SILICONE	SILICONE
19	DEADBOLT STRIKE REINFORCEMENT	STEEL			
20	WEATHER-STRIP	NEOPRENE			
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL			
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL			

[illegible]