

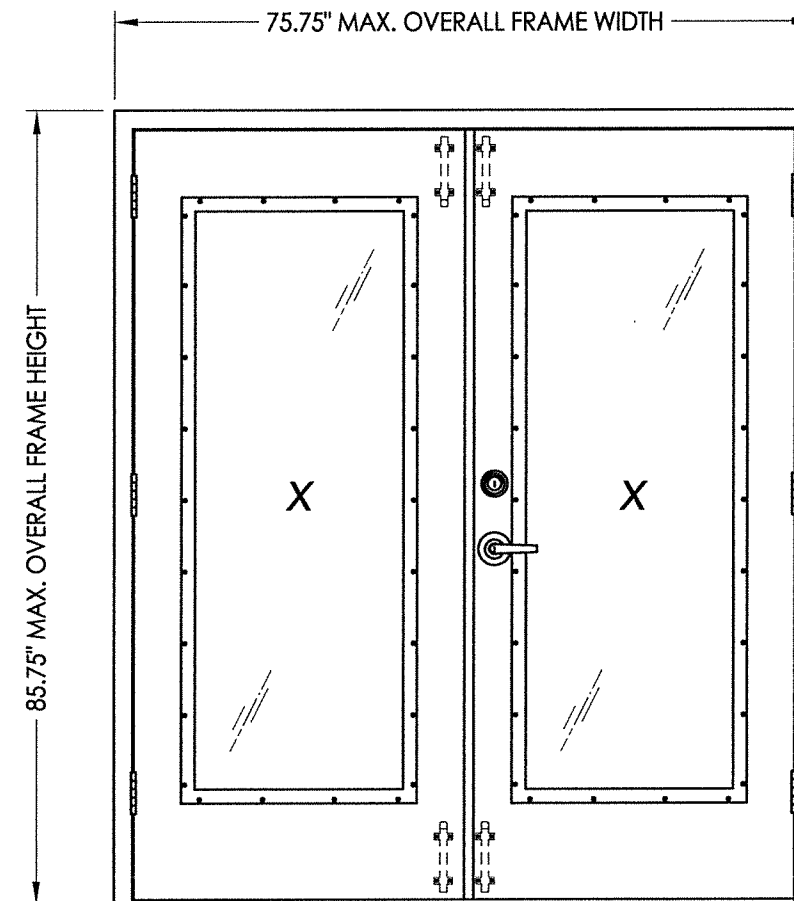
3228 6th AVENUE NORTH
P.O. BOX 635
BIRMINGHAM, AL 35201

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

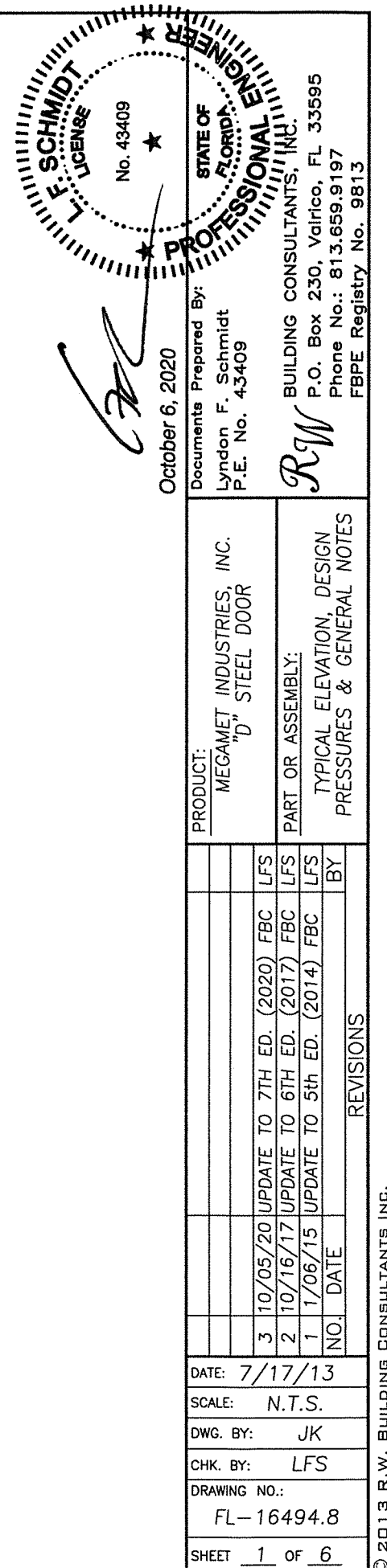
GENERAL NOTES

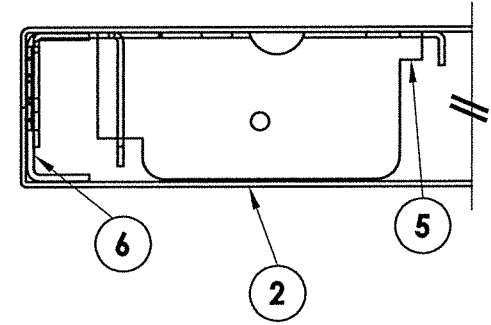
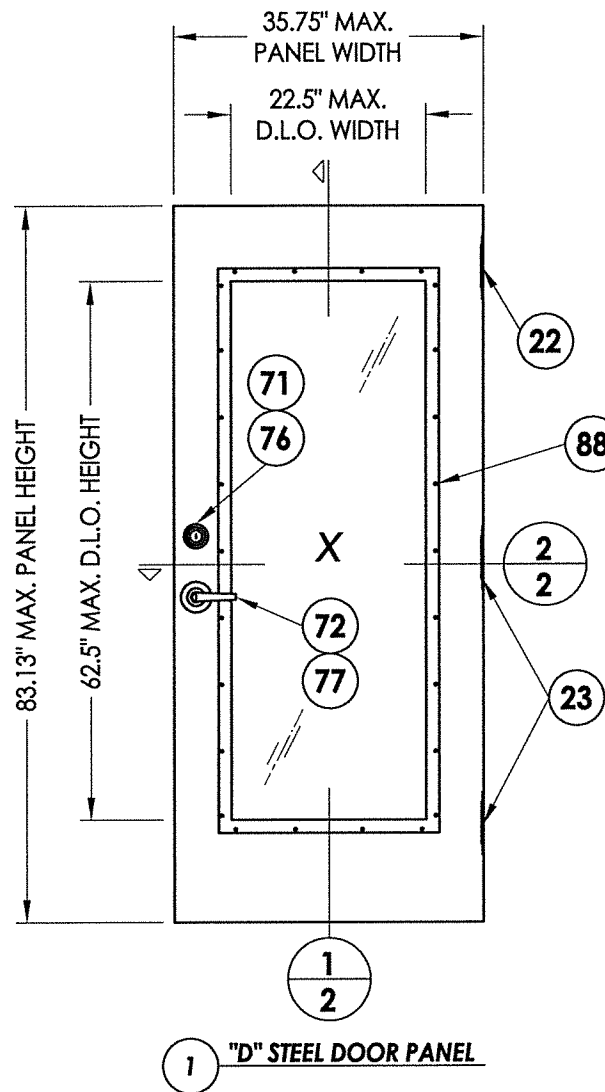
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 sill item #40 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.
6. All steel shall be protected as specified in Section 2222.6 of the FBC.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Horizontal & vertical cross sections
4	Anchoring details
5	Components
6	Bill of materials, glazing details & components

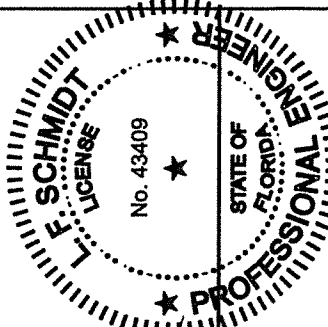
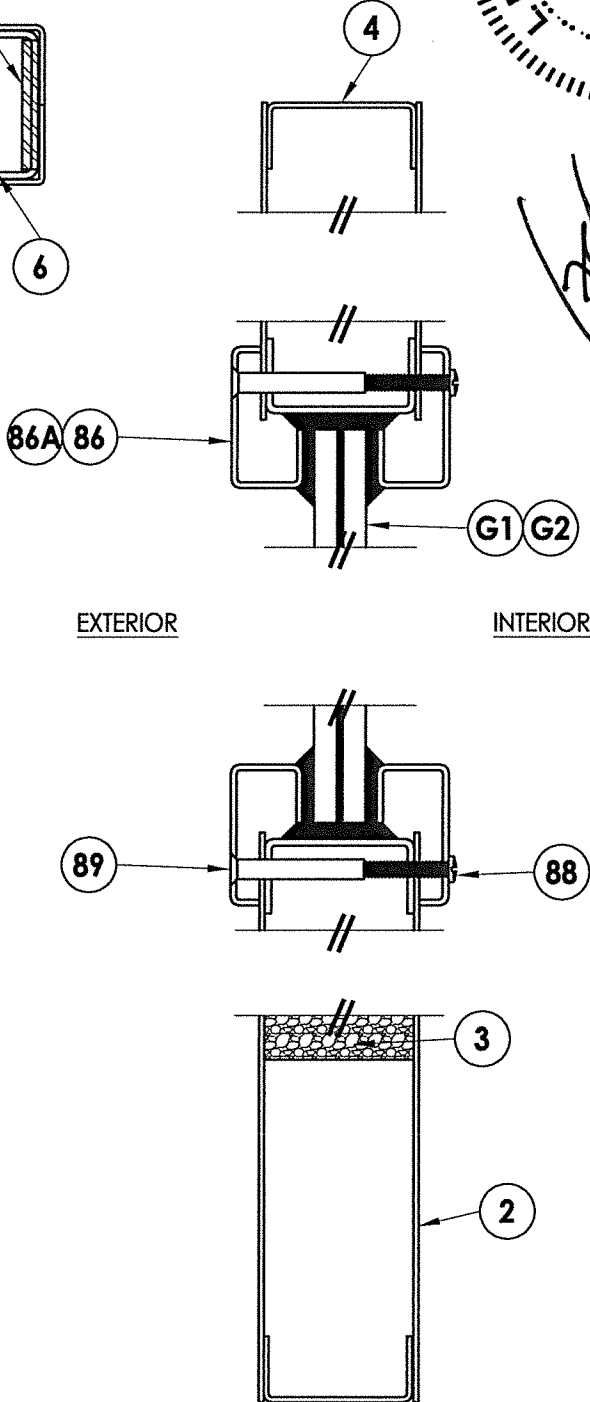
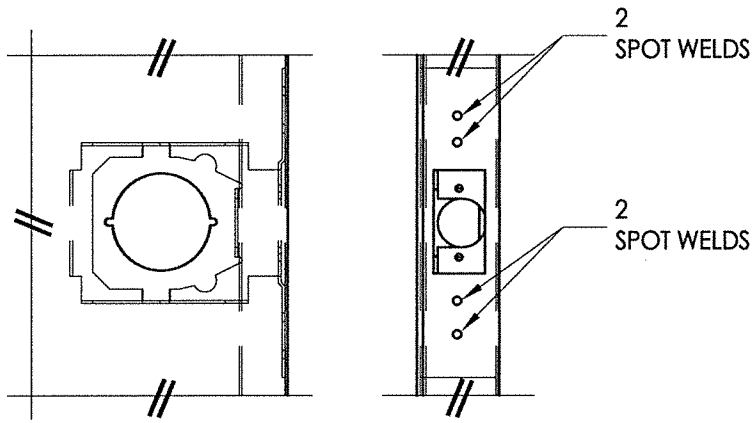
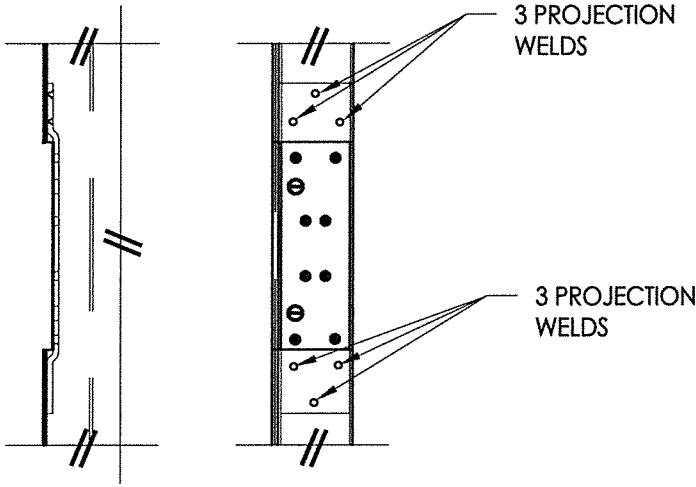
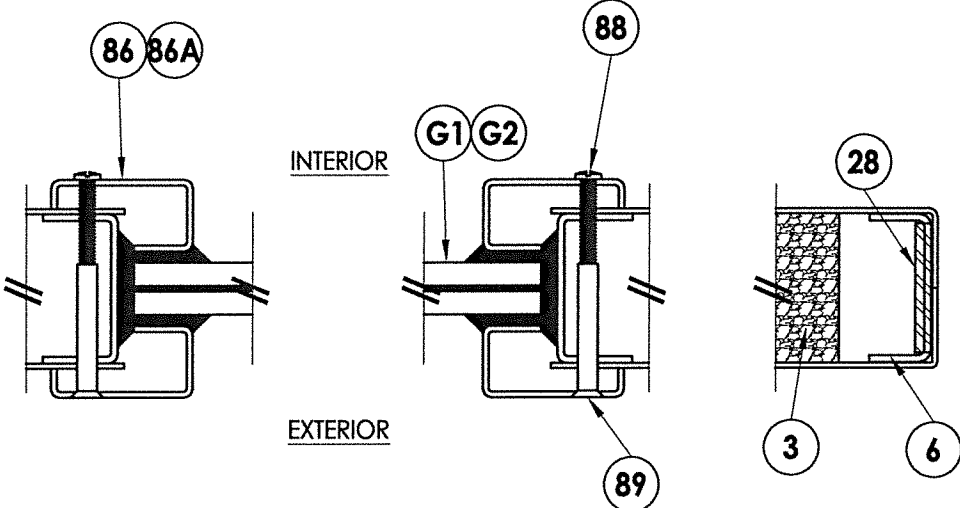
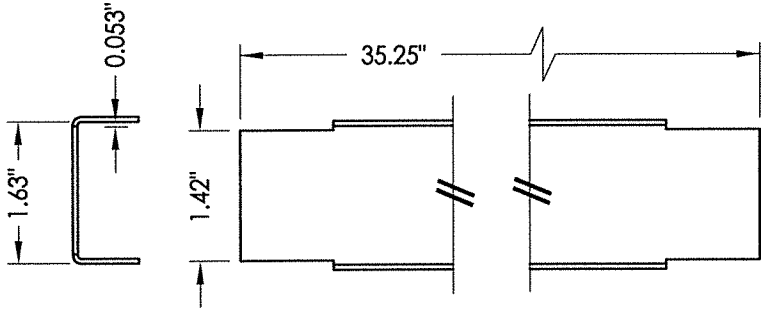
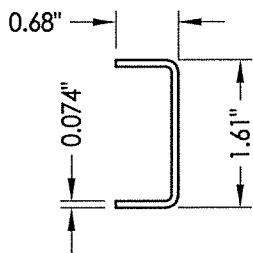


OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
75.75" x 85.75"	22.5" x 62.5"	+65.0	-70.0





Glass stop retaining screws
2" from corners and
7-3/4" max. o.c.



October 6, 2020

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:
MEGAMET INDUSTRIES, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

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.

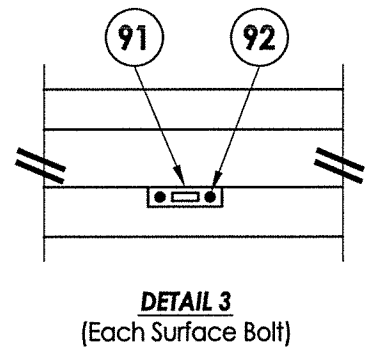
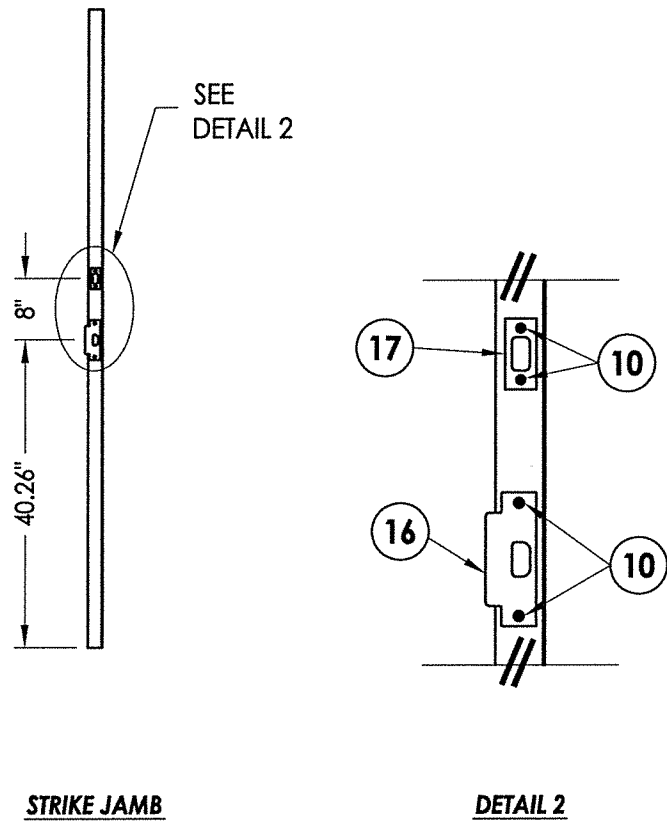
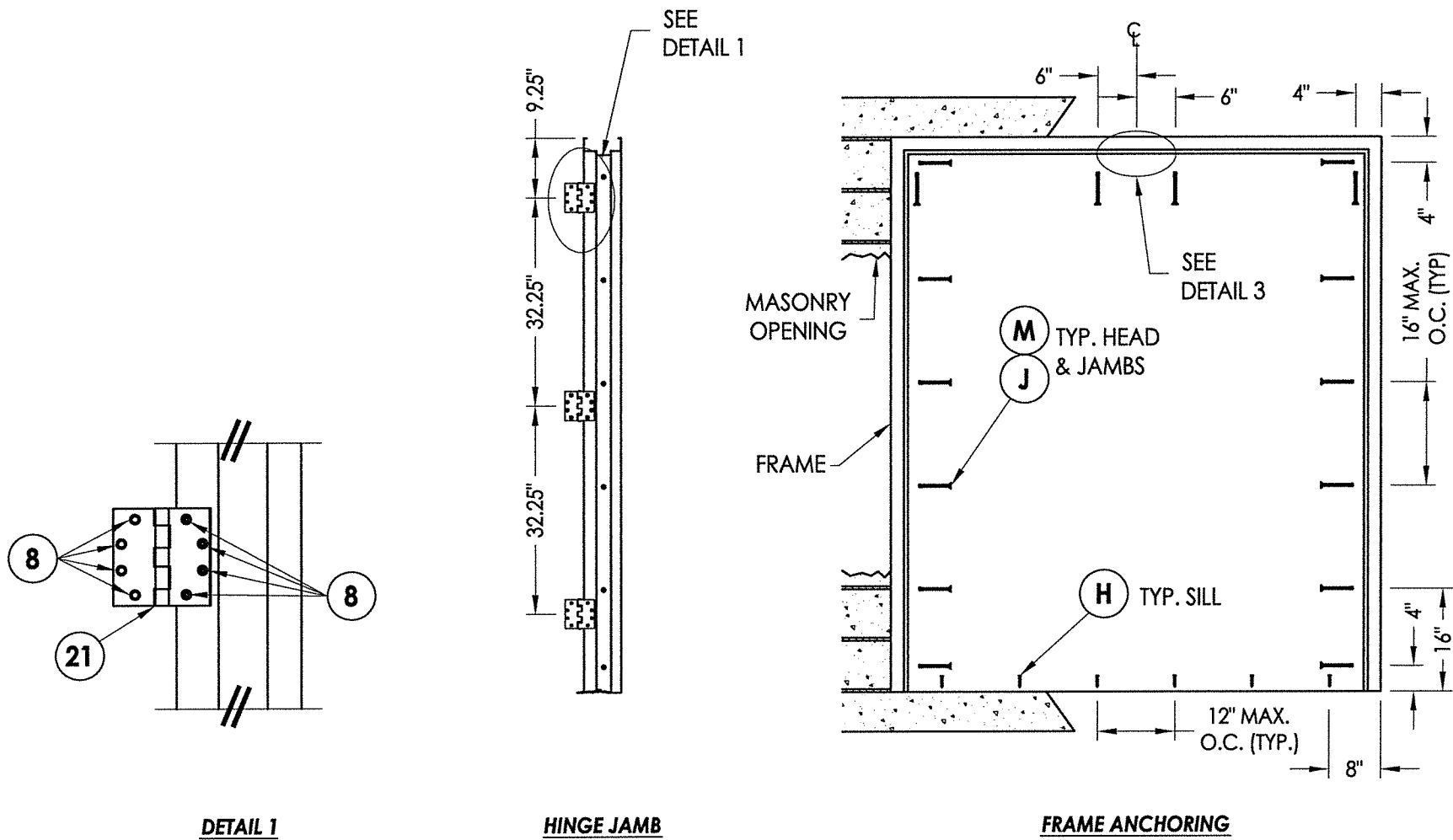
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16494.8

SHEET 2 OF 6

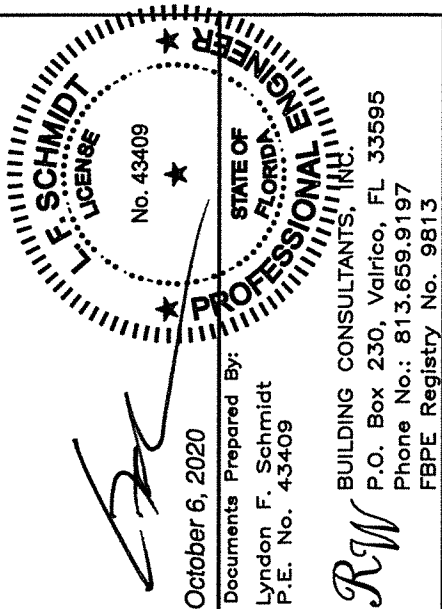
R:\Clients\Megamet PERMANENT\A - Florida Product Approvals\FL-16494\C - Drawings\FL-16494 (2020)\FL-16494.1-13.dwg, 4.8



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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		"D" STEEL DOOR	
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NO.	DATE		
DATE:		7/17/13	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-16494.8	
SHEET		4	OF 6

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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: 0.075"
- Bottom left step width: 1.85"
- Bottom right step width: 2.01"

Technical drawing of a square flange with a central circular hole. The drawing includes a top view and a side view.

Top View Dimensions:

- Outer square dimension: 4.68"
- Inner square dimension: 3.88"
- Central circular hole diameter: 3.5"

Side View Dimensions:

- Flange thickness: 0.060"
- Total height: 6.73"

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

Front View (Left):

- Overall height: 4.11"
- Overall width: 1.25"
- Top-left corner radius: R0.13"
- Distance from bottom to the center of the lower hole: 0.52"
- The part features two rectangular sections, each containing a circular hole. The upper hole is partially obscured by a dimension line.

Side View (Right):

- Overall width: 1.12"
- Overall height: 3.54"
- Distance from the bottom to the center of the lower hole: 0.97"
- Bottom thickness: 0.075"
- The side view shows the profile of the part, including the thickness of the material and the position of the holes.

Technical drawing of a rectangular plate with dimensions and hole patterns. The drawing includes a side view and a top view.

Side View (Left):

- Overall width: 8"
- Overall height: 4.75"
- Bottom flange width: 0.18"

Top View (Right):

- Overall width: 8"
- Overall height: 1.4"
- Left edge distance to first hole center: 0.7"
- Right edge distance to last hole center: 0.7"
- Top edge distance to first hole center: 0.88"
- Bottom edge distance to last hole center: 1.13"
- Horizontal spacing between hole centers: 1.23"
- Vertical spacing between hole centers: 1.13"
- Horizontal spacing between hole centers (bottom section): 0.75"
- Vertical spacing between hole centers (bottom section): 1"
- Horizontal spacing between hole centers (bottom section): 0.75"

The top view shows a grid of holes. The holes are arranged in a 4x4 grid. The holes are represented by circles with a cross inside, indicating they are through holes. The dimensions are given in inches.

The seal is circular with a double-lined border. The outer border contains the text "L.F. SCHMIDT" on the left and "PROFESSIONAL ENGINEER" on the right, separated by stars. The inner border contains the text "STATE OF FLORIDA" at the bottom, also separated by stars. In the center of the seal, the text "No. 43409" is printed above a five-pointed star.

No. 43409

STATE OF FLORIDA

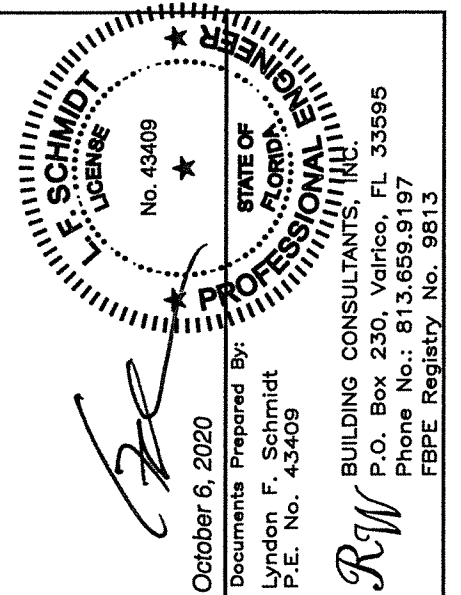
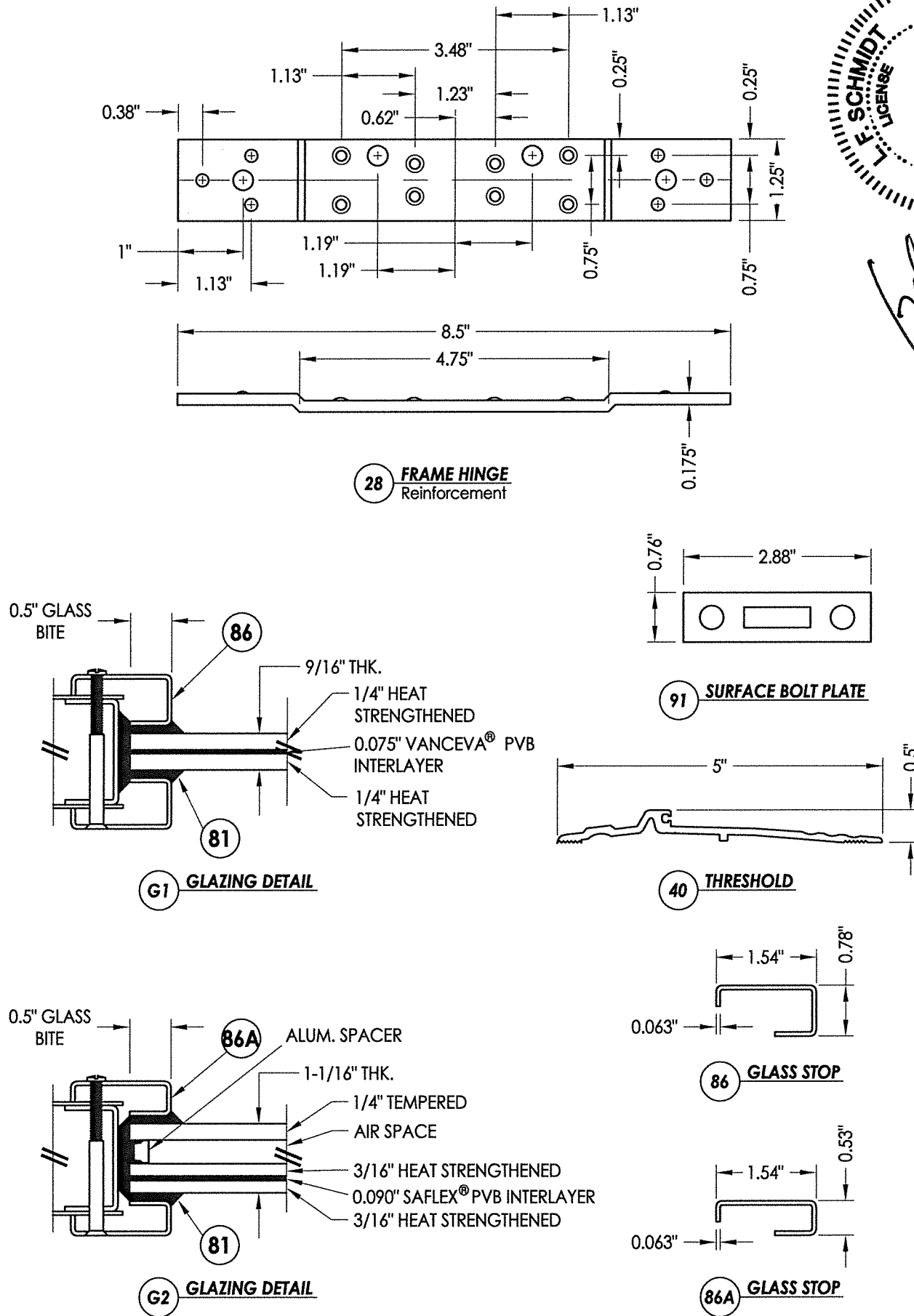
L.F. SCHMIDT

PROFESSIONAL ENGINEER

CONSULTANTS, INC.
 O. Valrico, FL 33595
 313.659.9197
 Y No. 9813

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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL
1	"D" STEEL DOOR PANEL	-
2	DOOR SKIN - 16GA (0.060" THK. STEEL, Fy = 40,317 PSI MIN.)	STEEL
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE
4	DOOR TOP & BOTTOM CLOSER	STEEL
5	LOCK BOX REINFORCEMENT	STEEL
6	DOOR STILE EDGE REINFORCEMENT (D DOOR)	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL
9	TUBE ANCHOR	STEEL
10	#12-24 X 1" COMBINATION MACHINE / WOOD SCREW	STEEL
16	ANSI LATCH STRIKE	STEEL
17	DEADBOLT STRIKE	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL
20	WEATHERSTRIP	NEOPRENE
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
24	WEATHERSTRIP (THRESHOLD)	NEOPRENE
25	FRAME - 14GA (0.075" THK)	STEEL
27	LATCH STRIKE REINFORCEMENT	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
81	DOW 995 STRUCTURAL SILICONE	SILICONE
82	SURFACE BOLT	STEEL
83	1/4" X 2-1/2" PPH MS	STEEL
86	LITE FRAME BY AIR LOUVERS #1500-AJ-2464	STEEL
86A	LITE FRAME BY AIR LOUVERS #VLFIG-HRC-2464-01	STEEL
87	Z ASTRAGAL	STEEL
88	#8 X 1-1/2" PPH MS	STEEL
89	SCREW COVER	STEEL
91	SURFACE BOLT PLATE	STEEL
92	#8 X 1-1/4" PPH SELF TAPPER	STEEL

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