

MEGAMET INDUSTRIES, INC.

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

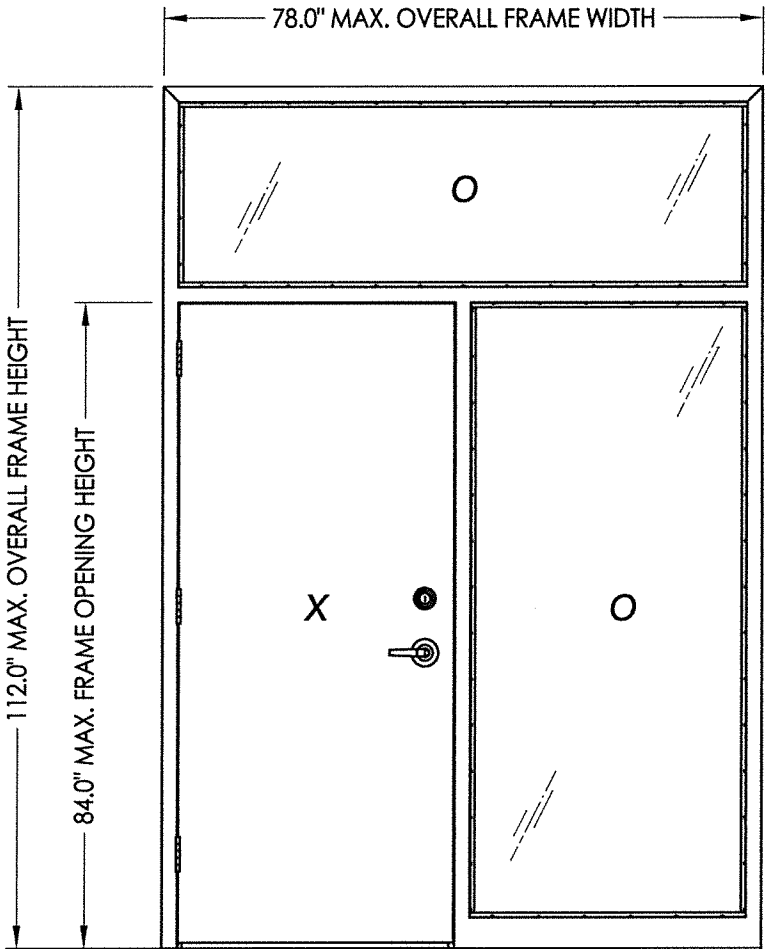
"D" SERIES
COMMERCIAL STEEL DOOR
w/ SIDELITE & TRANSOM
INSWING / OUTSWING

"NON-IMPACT"

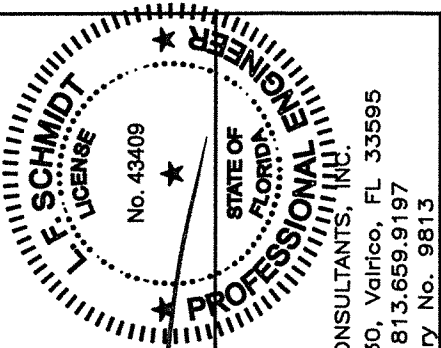
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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
4	Vertical cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Anchoring details
8	Glazing detail & components
9	Bill of materials & components



SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
INSWING	78.0" x 112.0"	34.75" x 78.75"	161 LATCH (SCHLAGE)	+55.0	-55.0
	78.0" x 112.0"	34.75" x 78.75"	161 LATCH & DEADBOLT (DESIGN HARDWARE)	+65.0	-70.0
OUTSWING	78.0" x 112.0"	34.75" x 78.75"	161 LATCH (SCHLAGE)	+55.0	-55.0
	78.0" x 112.0"	34.75" x 78.75"	161 LATCH & DEADBOLT (DESIGN HARDWARE)	+65.0	-70.0

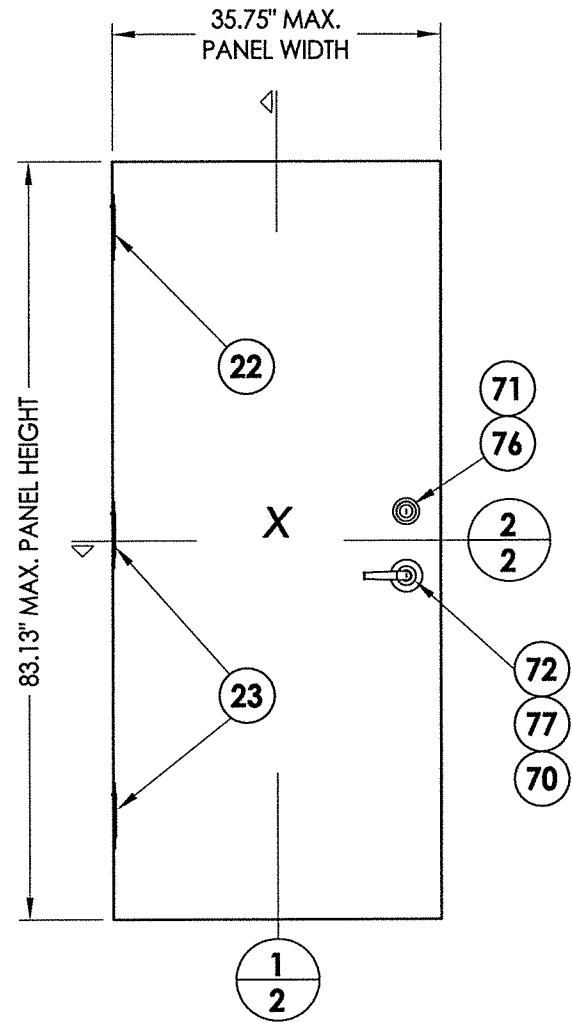


October 5, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

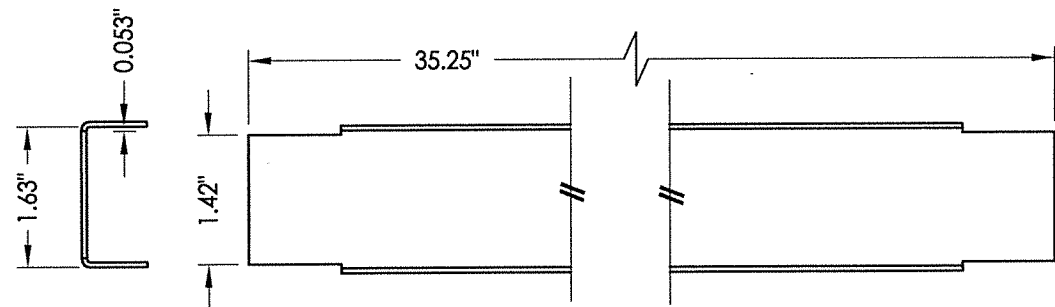
PRODUCT: MEGAMET INDUSTRIES, INC. "D" STEEL DOOR
PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

REVISIONS			
NO.	DATE	BY	
3	10/01/20	LFS	UPDATE TO 7TH ED. (2020) FBC
2	10/16/17	LFS	UPDATE TO 6TH ED. (2017) FBC
1	1/06/15	LFS	UPDATE TO 5th ED. (2014) FBC

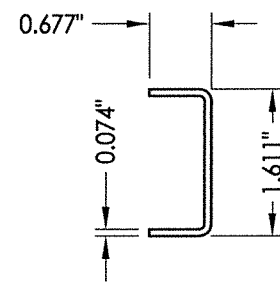
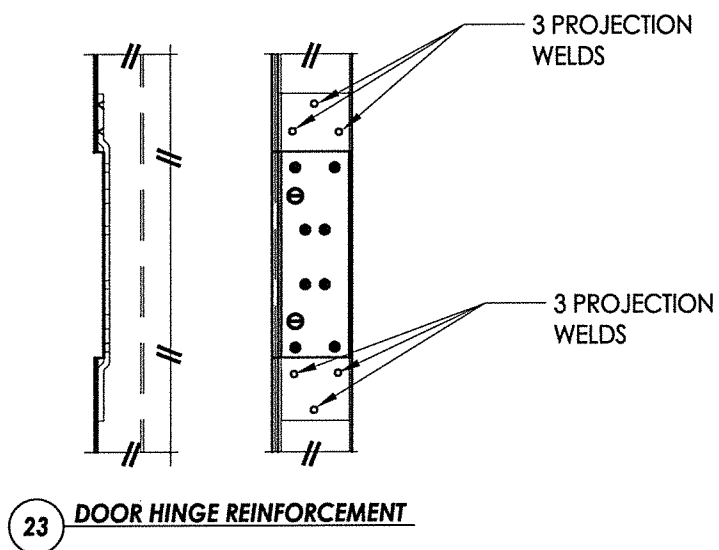
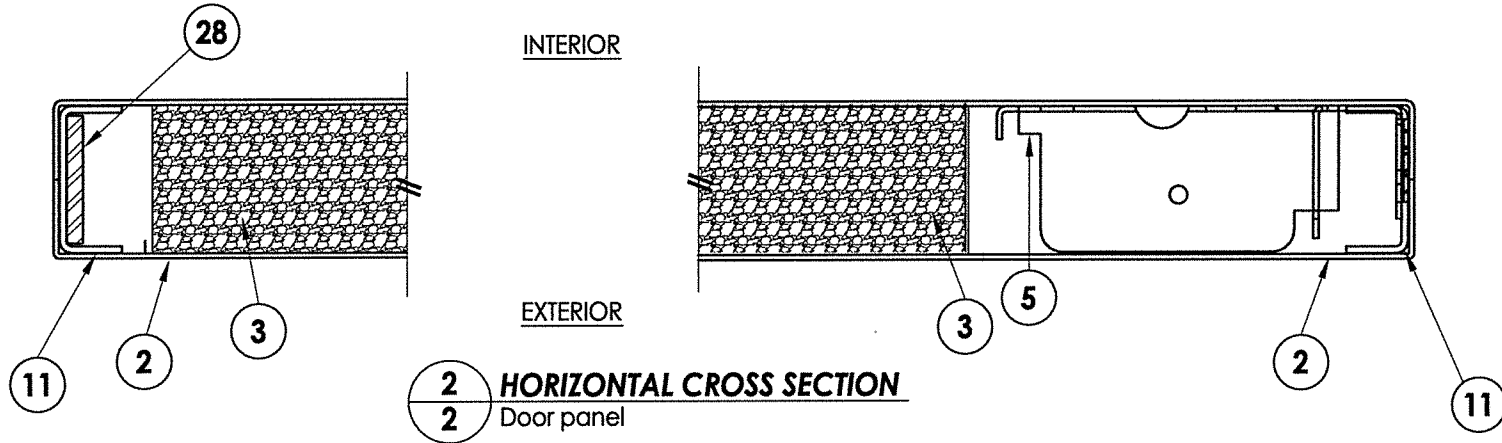
DATE: 7/17/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16493.7
SHEET 1 OF 9



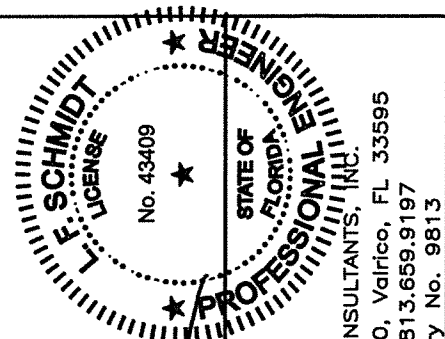
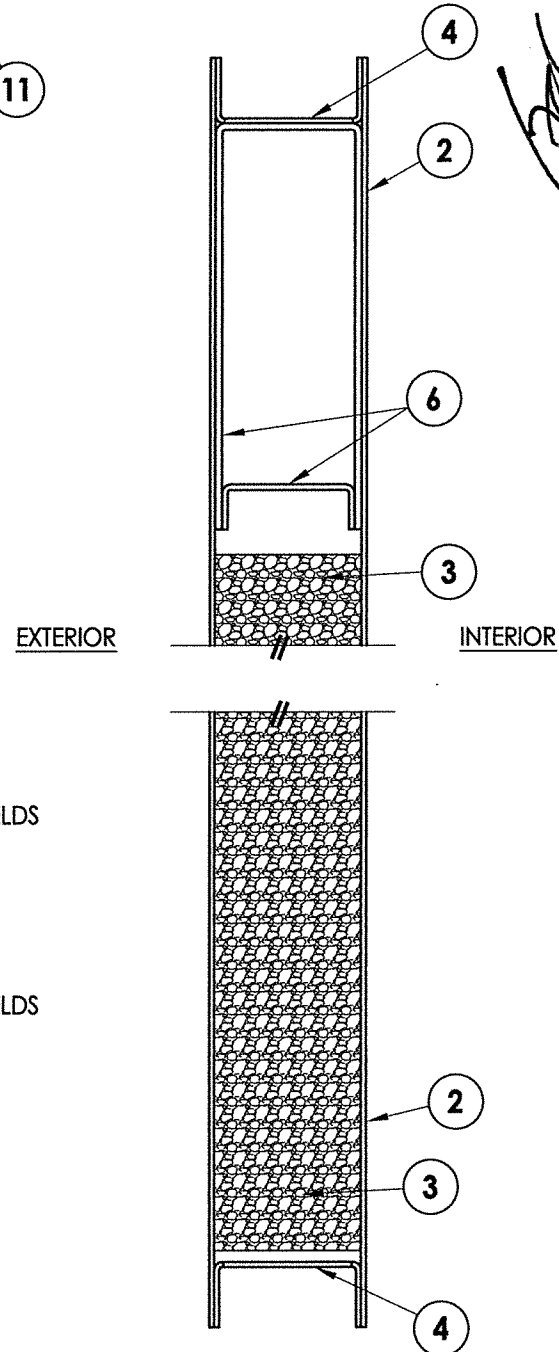
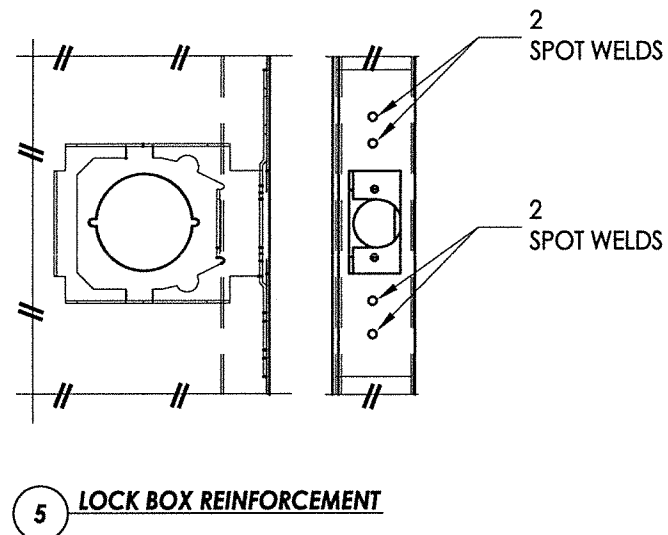
1 "D" OPAQUE STEEL DOOR PANEL



4 DOOR TOP & BOTTOM CLOSER



11 DOOR STILE EDGE Reinforcement



October 5, 2020

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

PART OR ASSEMBLY:
DOOR PANEL SECTIONS
161 LOCK PREP

NO.	DATE	REVISIONS
3	10/01/20	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

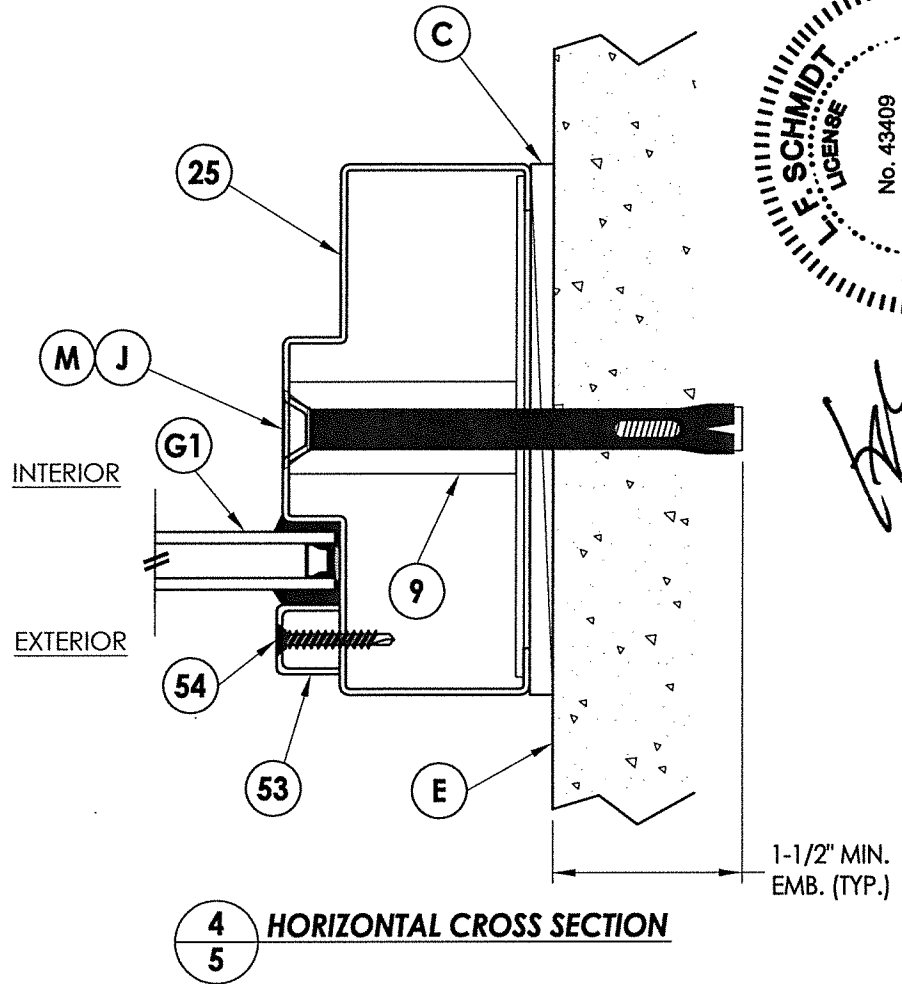
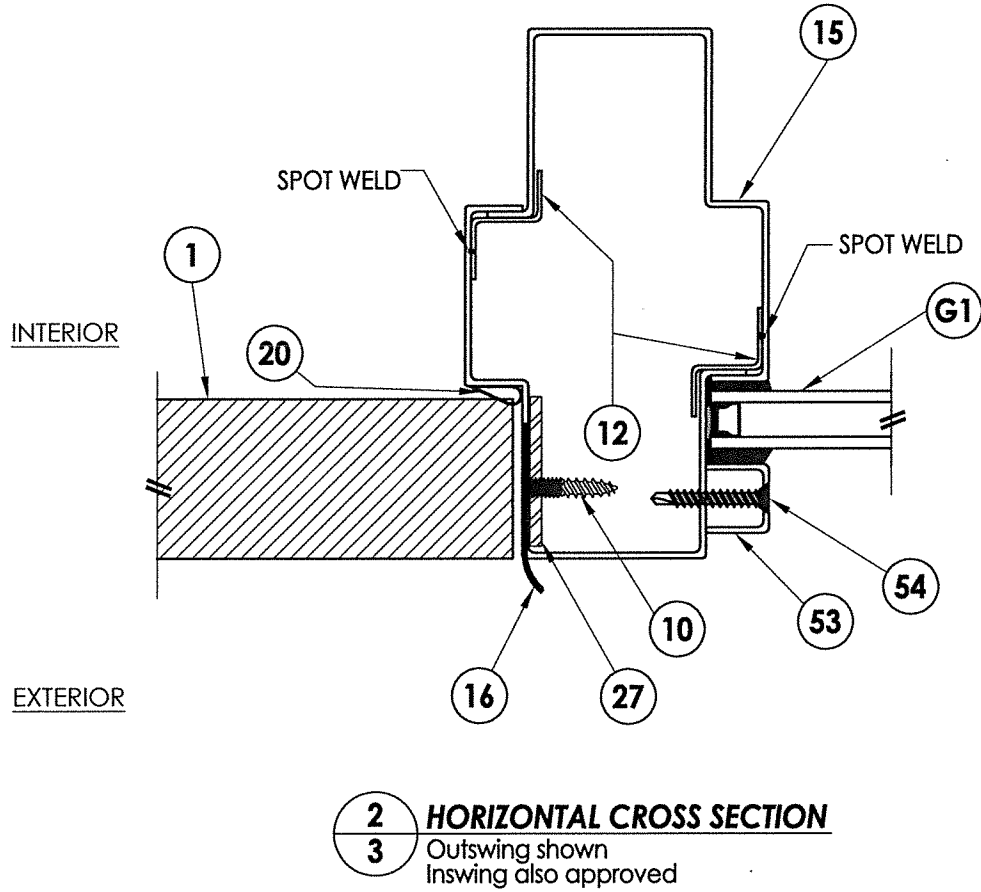
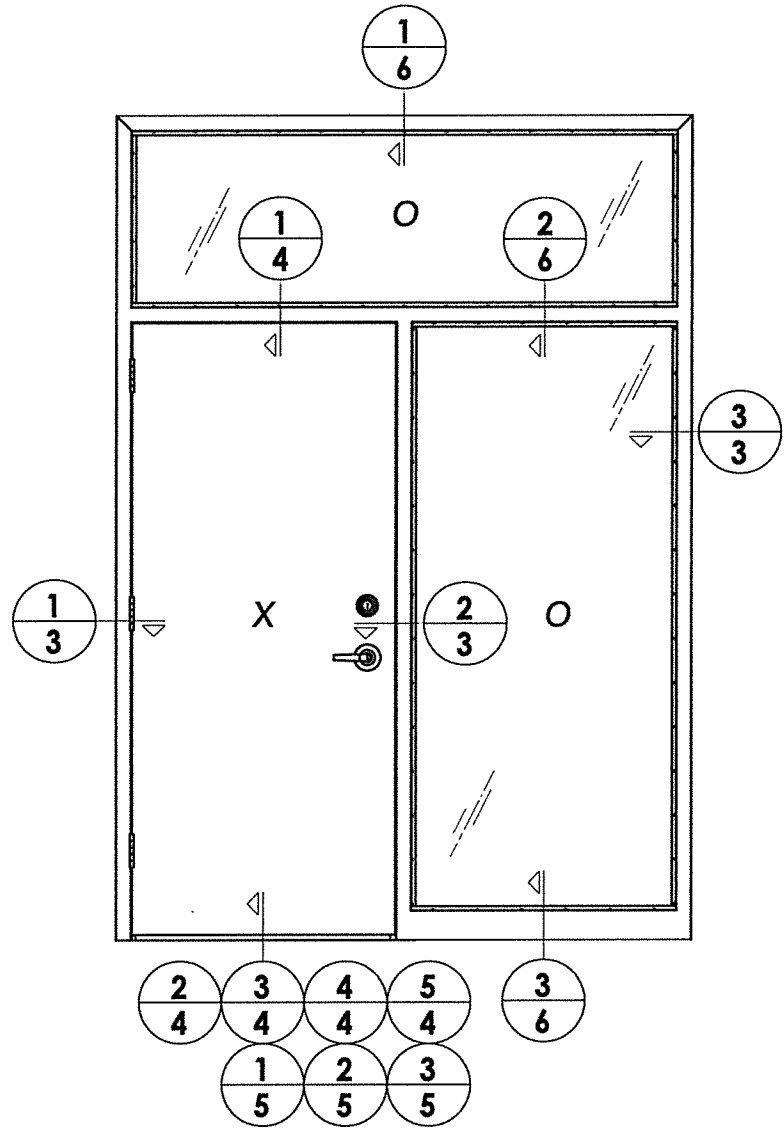
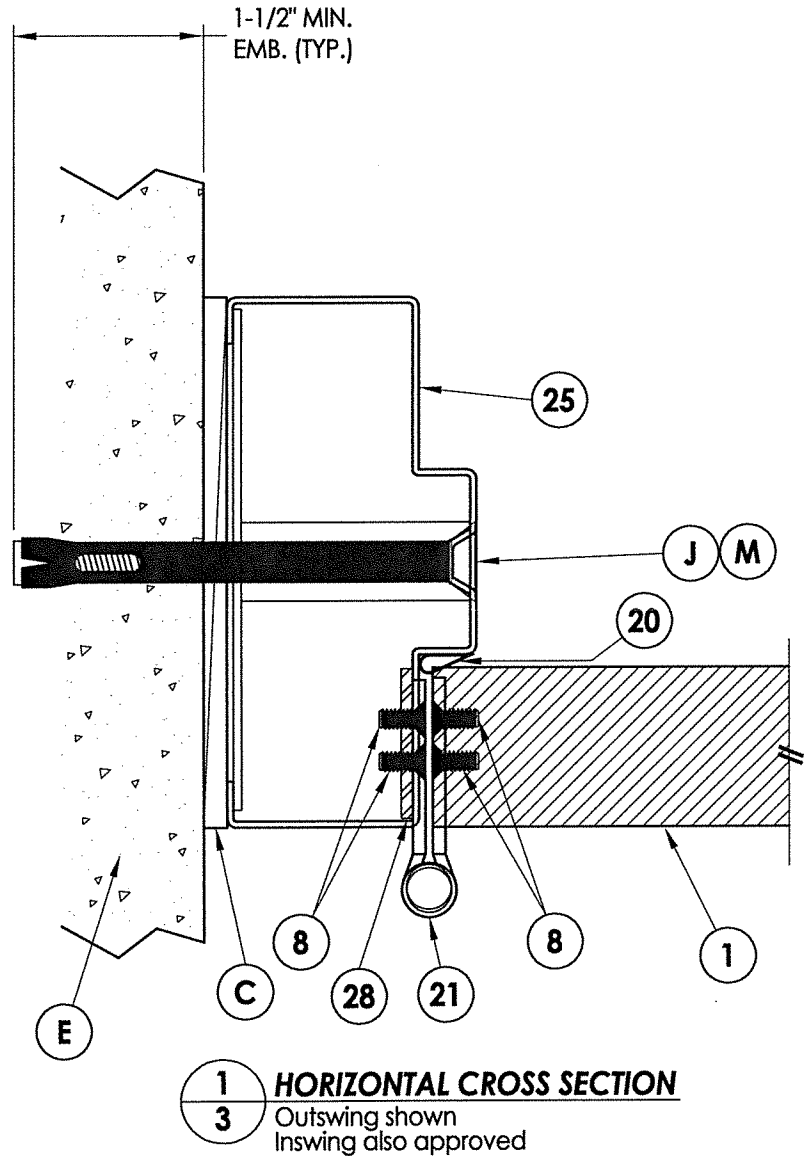
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16493.7

SHEET 2 OF 9



F. SCHMIDT
LICENSE
No. 43409

STATE OF FLORIDA
PROFESSIONAL ENGINEER

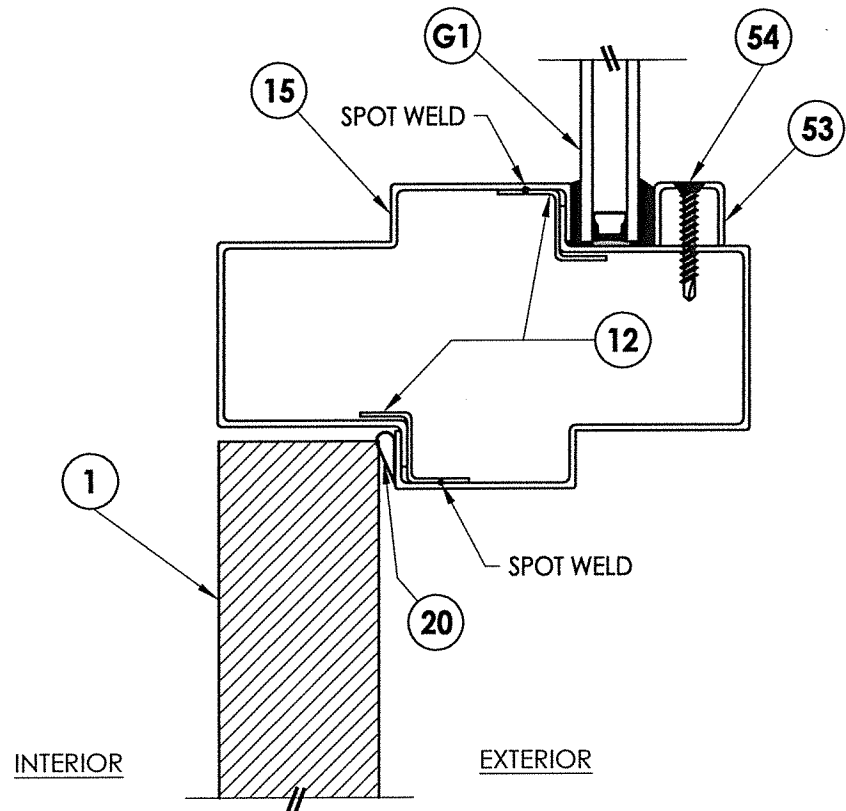
October 5, 2020

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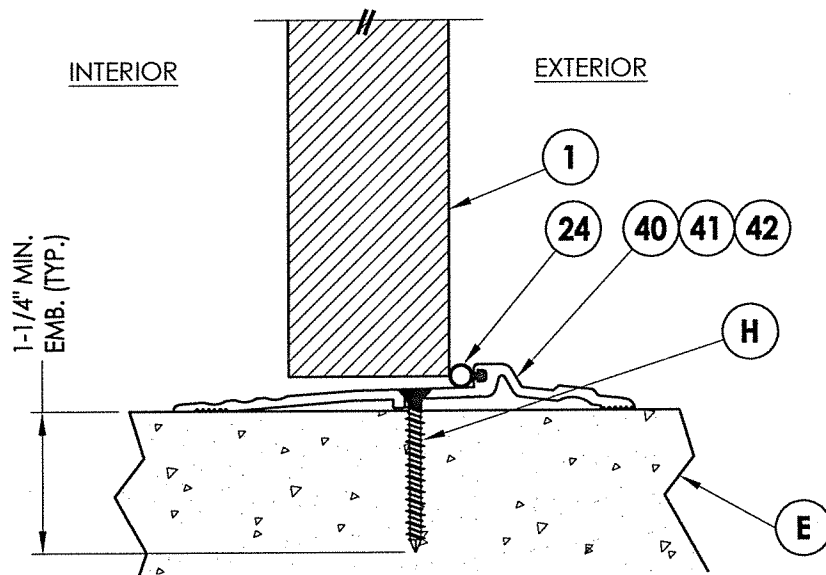
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	MEGAMET INDUSTRIES, INC. "D" STEEL DOOR
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS
DATE:	7/17/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-16493.7
SHEET	3 OF 9

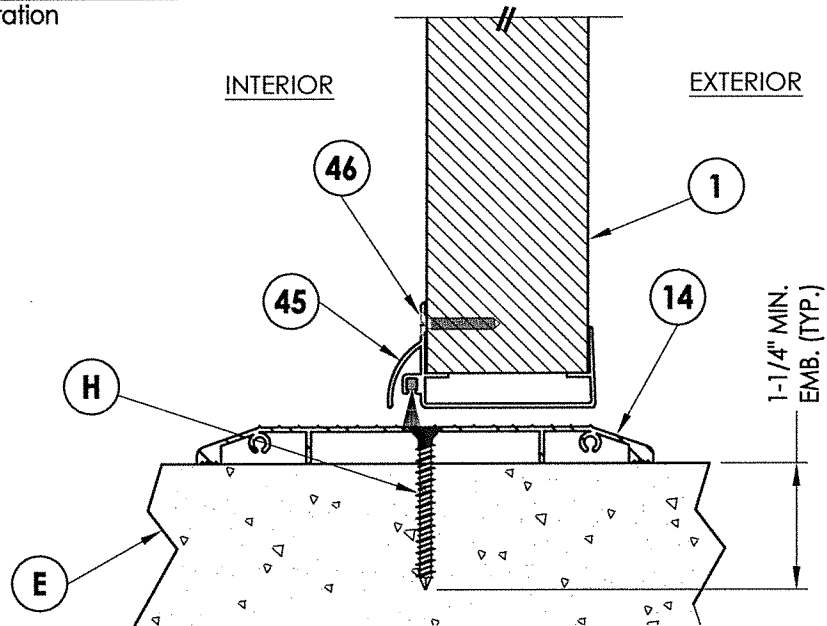
NO.	DATE	REVISIONS
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2	10/16/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	1/06/15	UPDATE TO 5th ED. (2014) FBC LFS



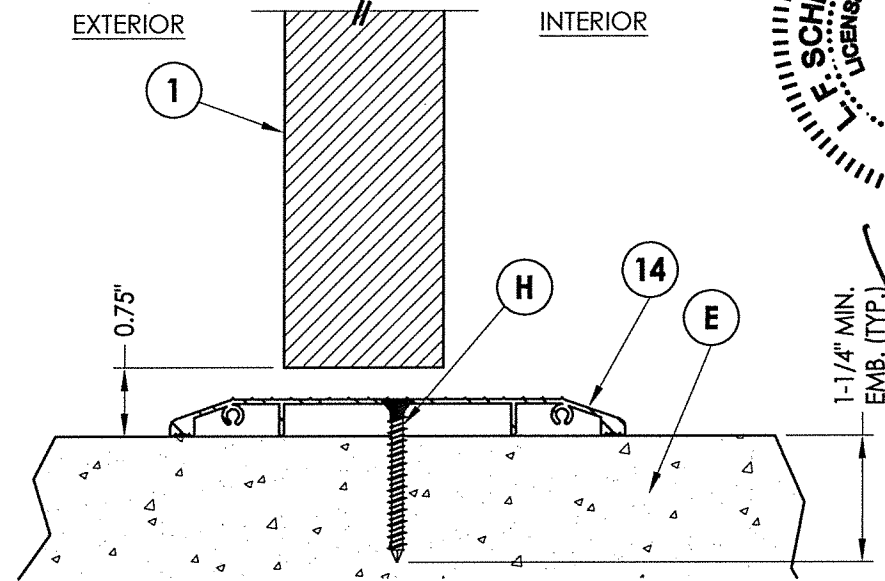
1 **VERTICAL CROSS SECTION**
4 Inswing configuration



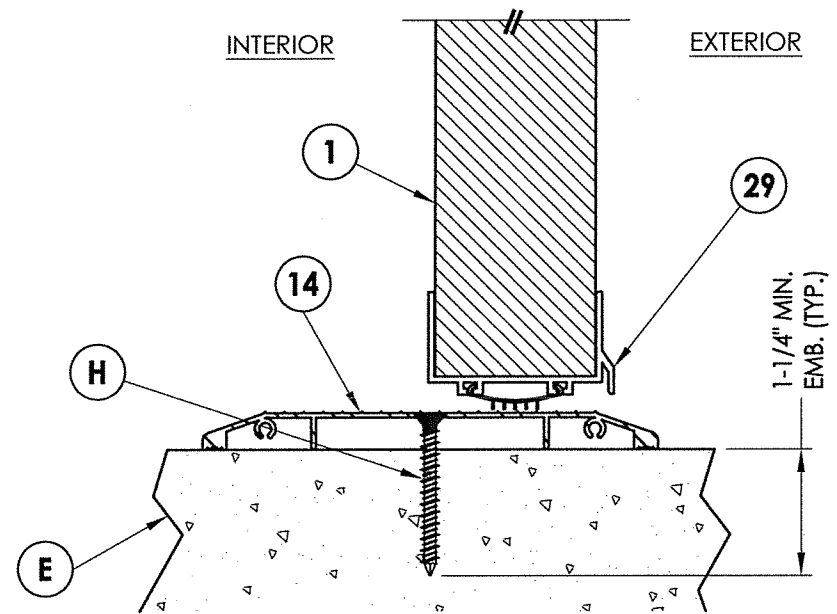
2 VERTICAL CROSS SECTION
4 Inswing configuration



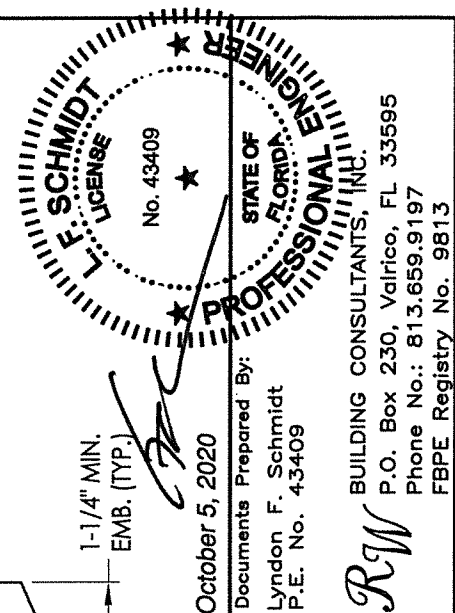
3 VERTICAL CROSS SECTION
4 Inswing configuration



5 VERTICAL CROSS SECTION



4 VERTICAL CROSS SECTION
4 Inswing configuration



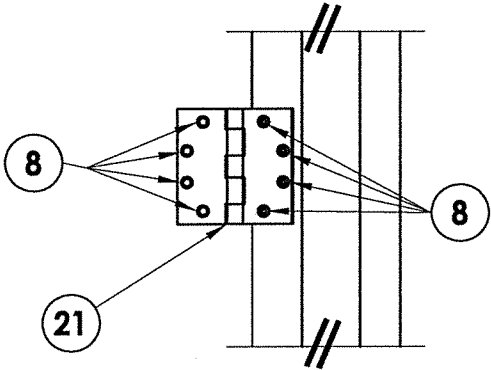
October 5, 2020

Documents Prepared By:
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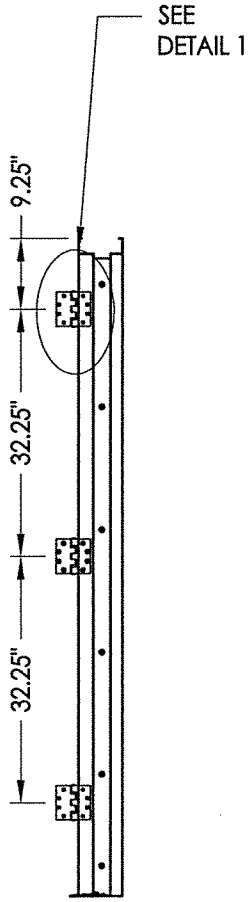
R^gW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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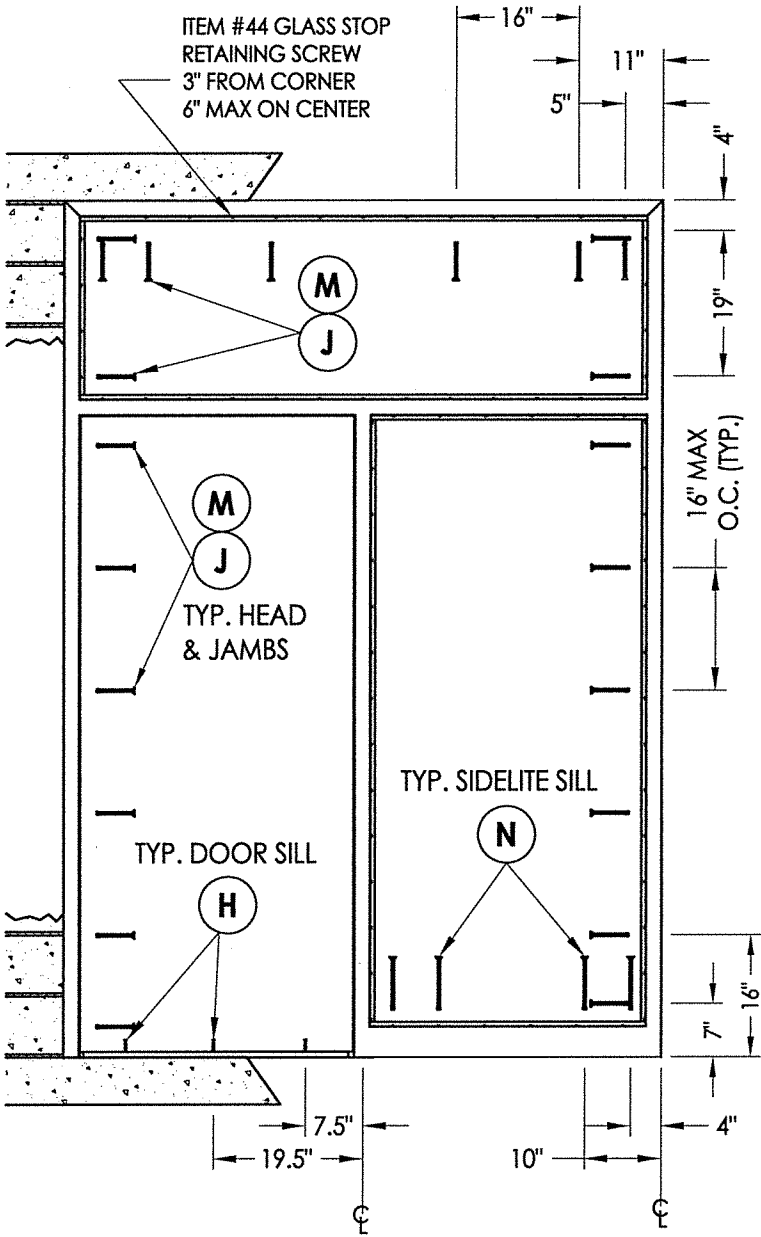
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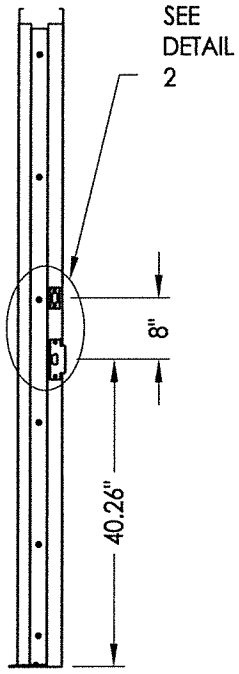
DETAIL 1



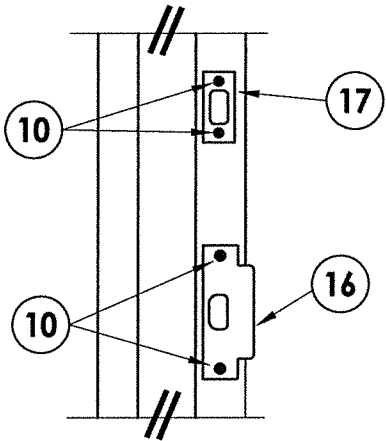
HINGE JAMB



FRAME ANCHORING



STRIKE JAMB

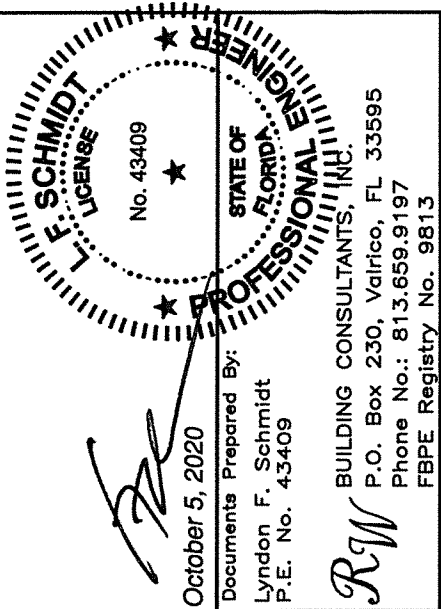


DETAIL 2

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"
SCREW-BOLT+™	1/2"	2-1/2"	6"	6"



DATE: 7/17/13		PRODUCT: MEGAMET INDUSTRIES, INC. "D" STEEL DOOR	
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16493.7		PART OR ASSEMBLY: ANCHORING DETAILS	
SHEET 7 OF 9		REVISIONS	
		NO. DATE	
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Technical drawing of a U-shaped cross-section. The overall width is 5.87". The overall height is 2.7". The top flange thickness is 0.5". The web thickness is 0.056". The bottom flange width is 1.85". The bottom flange height is 2.01". The drawing shows a U-shaped profile with a central web and two side flanges. The dimensions are given in inches.

Technical drawing of a rectangular plate. The overall width is 1.63" and the overall height is 7.63". The plate features a central rectangular cutout with a width of 3.5". On the left and right sides of the plate, there are three circular features each, arranged vertically. The top and bottom edges of the plate are marked with dashed lines, indicating hidden features or boundaries. The central cutout is defined by solid lines.

Technical drawing of a square flange with a central circular hole and a gear-like outer profile. The drawing includes the following dimensions:

- Central circular hole diameter: 3.5"
- Square flange width: 3.88"
- Total width: 4.68"
- Total height: 6.73"
- Small dimension at top right corner: .060"

[illegible]

EXTERIOR

0.57" GLASS BITE

5/8" THICK

1/8" TEMPERED

AIR SPACE

1/8" TEMPERED

INTERIOR

GLAZING DETAIL

L.F. SCHMIDT
FLORIDA
ENGINEER

No. 43409

STATE OF
FLORIDA

PROFESSIONAL ENGINEER

er 5, 2020

ent's Prepared By:

n F. Schmidt

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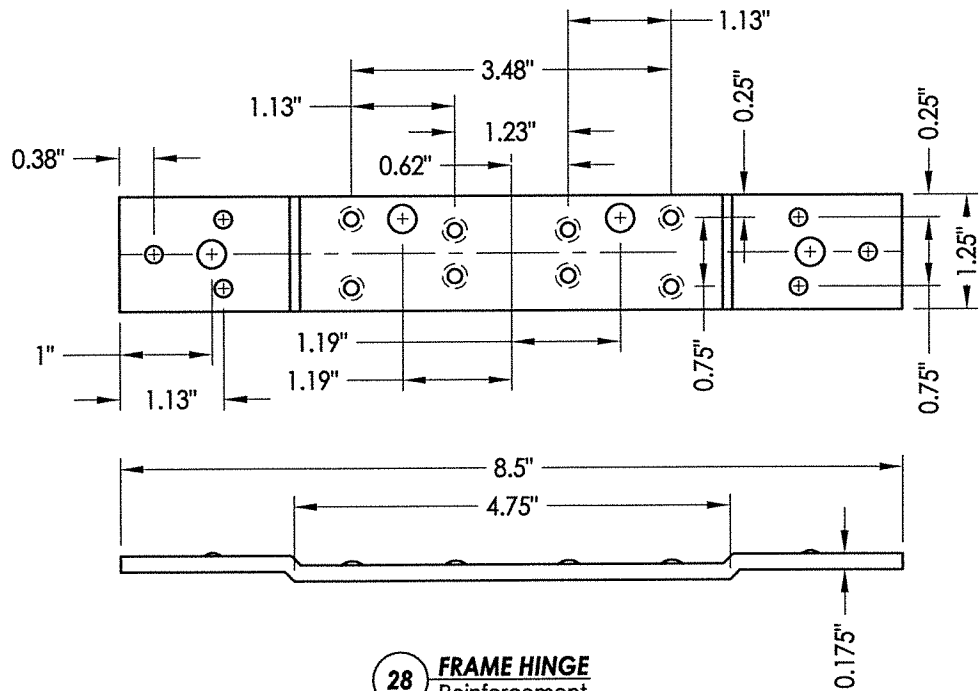
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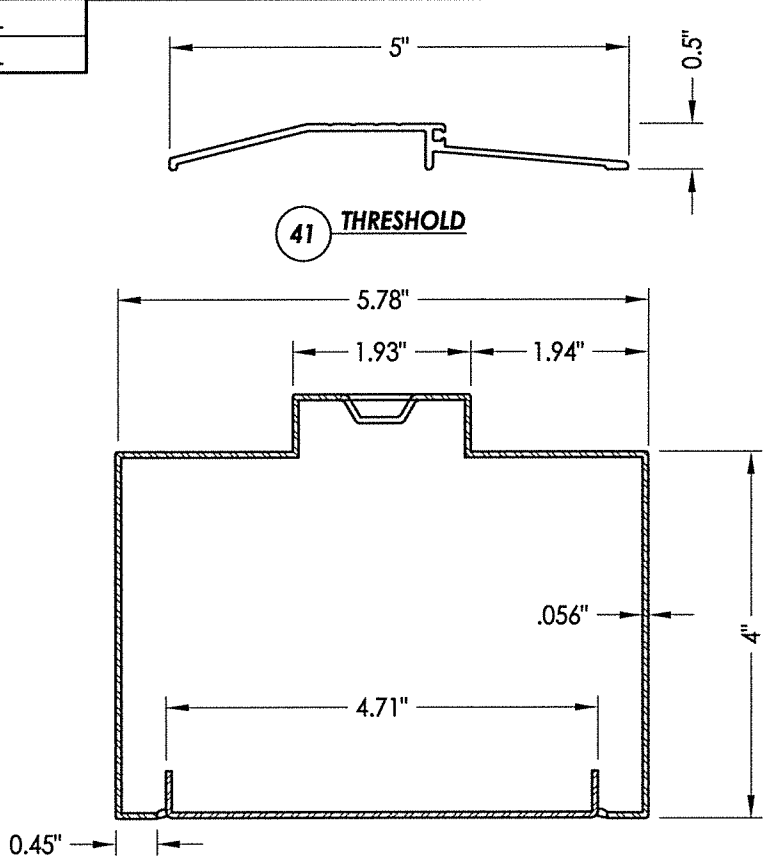
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R:\Clients\Megamet PERMANENTVA - Florida Product Approvals\FL-16493\C - Drawings\FL-16493 (2020)\FL-16493.1-12.dwg, 9.7

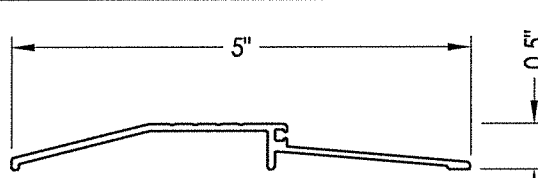
BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
H	1/4" x 1-3/4" PFH DeWALT OR ITW 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	26	FRAME SILL 5-3/4" X 4" MIN. (0.056" THK)	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL	27	LATCH STRIKE REINFORCEMENT	STEEL
N	1/2" X 8" HH SCREW-BOLT+ CONC. ANCHOR (DeWALT/POWERS)	STEEL	28	FRAME HINGE REINFORCEMENT	STEEL
1	"D" OPAQUE STEEL DOOR PANEL	-	29	COLUMBIA DOOR BOTTOM SWEEP #2580	ALUMINUM
2	DOOR SKIN (0.055" THK. STEEL, Fy = 40,317 PSI MIN.)	STEEL	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
4	DOOR TOP & BOTTOM CLOSER	STEEL	42	THRESHOLD PEMKO #2005 V	ALUMINUM
5	LOCK BOX REINFORCEMENT	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
6	CLOSER REINFORCEMENT	STEEL	46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL	53	U-CHANNEL GLASS STOP	STEEL
9	TUBE ANCHOR	STEEL	54	#8 X 1.25" PFH SMS	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
11	DOOR STILE EDGE REINFORCEMENT	STEEL	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
12	MULLION Z BRACKET	STEEL	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
15	MULLION MIN. (0.056" THK)	STEEL	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
16	ANSI LATCH STRIKE	STEEL	78	OUTSWING THRESHOLD QOSH BY DLP	ALUM/WOOD
17	DEADBOLT STRIKE	STEEL	79	WEATHER-STRIP	FOAM
19	DEADBOLT STRIKE REINFORCEMENT	STEEL	81	DOW 995 STRUCTURAL SILICONE	SILICONE
20	WEATHER-STRIP	NEOPRENE	82	GLASS SPACER	ALUM
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL	83	SILL TUBE ANCHOR	STEEL
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL			



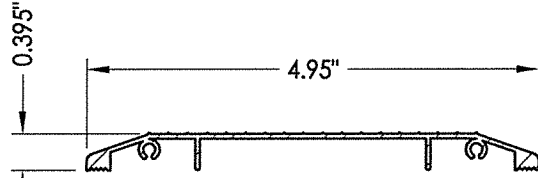
28 FRAME HINGE Reinforcement



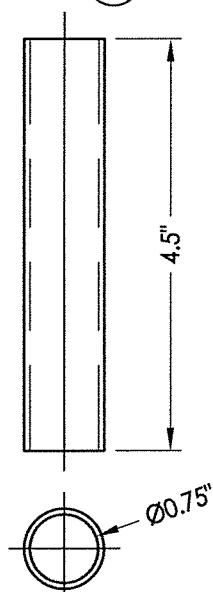
26 HOLLOW METAL FRAME SILL



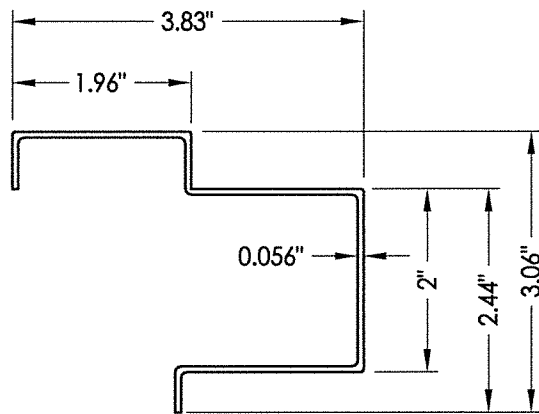
41 THRESHOLD



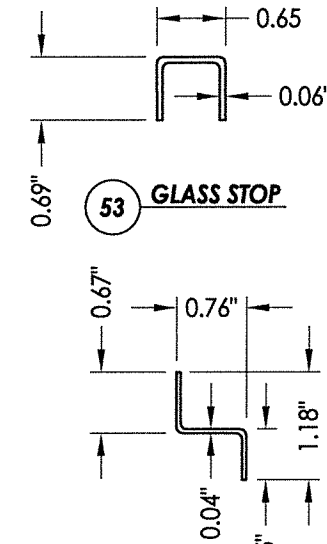
14 THRESHOLD



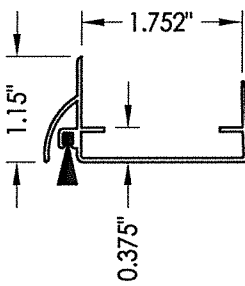
83 SILL TUBE ANCHOR



15 MULLION

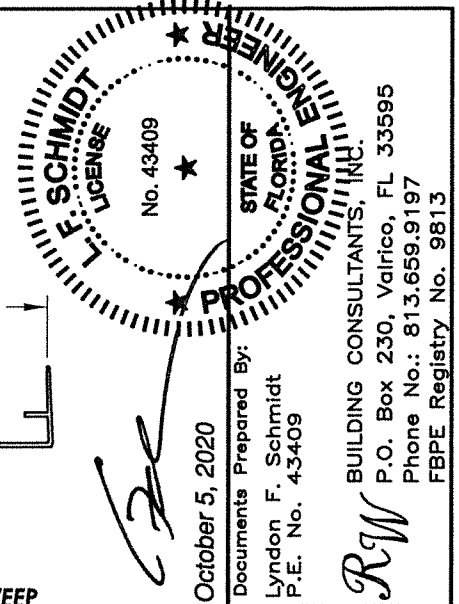


12 MULLION Z BRACKET



45 DOOR SWEEP

53 GLASS STOP



October 5, 2020

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

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

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS
3	10/01/20	UPDATE TO 7TH ED. (2020) FBC
2	10/16/17	UPDATE TO 6TH ED. (2017) FBC
1	1/06/15	UPDATE TO 5th ED. (2014) FBC

DATE: 7/17/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16493.7

SHEET 9 OF 9

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