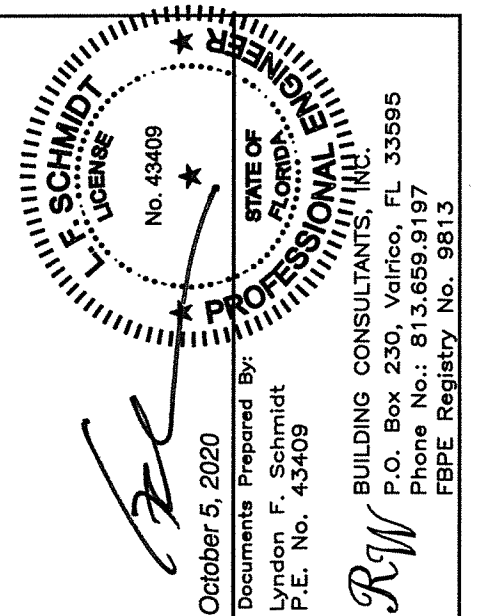


**"D" SERIES
COMMERCIAL STEEL DOOR
OUTSWING
"NON-IMPACT"**

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 1 stiffness classification per Section 8.2.2 of ANSI A250.13 (based on opaque door).

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



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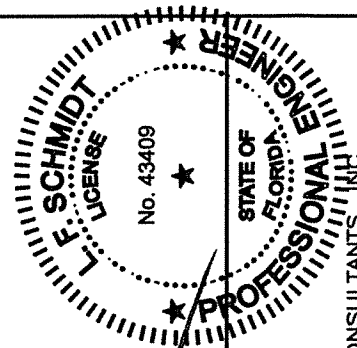
A technical drawing of a rectangular container, possibly a bathtub or a large box, shown from a top-down perspective. The drawing includes several callouts: '2' points to the bottom surface, '5' points to the right side wall, and '6' points to the left side wall. The container has rounded corners and a small circular feature in the center of the bottom.

Technical drawings of the window assembly showing internal and external views with callouts for components 86, 88, 89, G1, 28, 3, and 6.

Technical drawings of the window frame assembly showing exterior and interior views with callouts 2, 3, 4, 86, 88, 89, and G1.

The drawings include:

- Exterior View (Top):** Shows the outer frame profile with callout 4 pointing to the top rail.
- Interior View (Middle):** Shows the internal components, including the sash and the frame. Callout 86 points to the left side of the frame, and callout G1 points to the bottom rail.
- Exterior View (Bottom):** Shows the outer frame profile with callout 89 pointing to the left side of the frame.
- Interior View (Bottom):** Shows the internal components, including the sash and the frame. Callout 88 points to the right side of the frame.
- Callout 2:** Points to the main frame profile.
- Callout 3:** Points to the top rail.

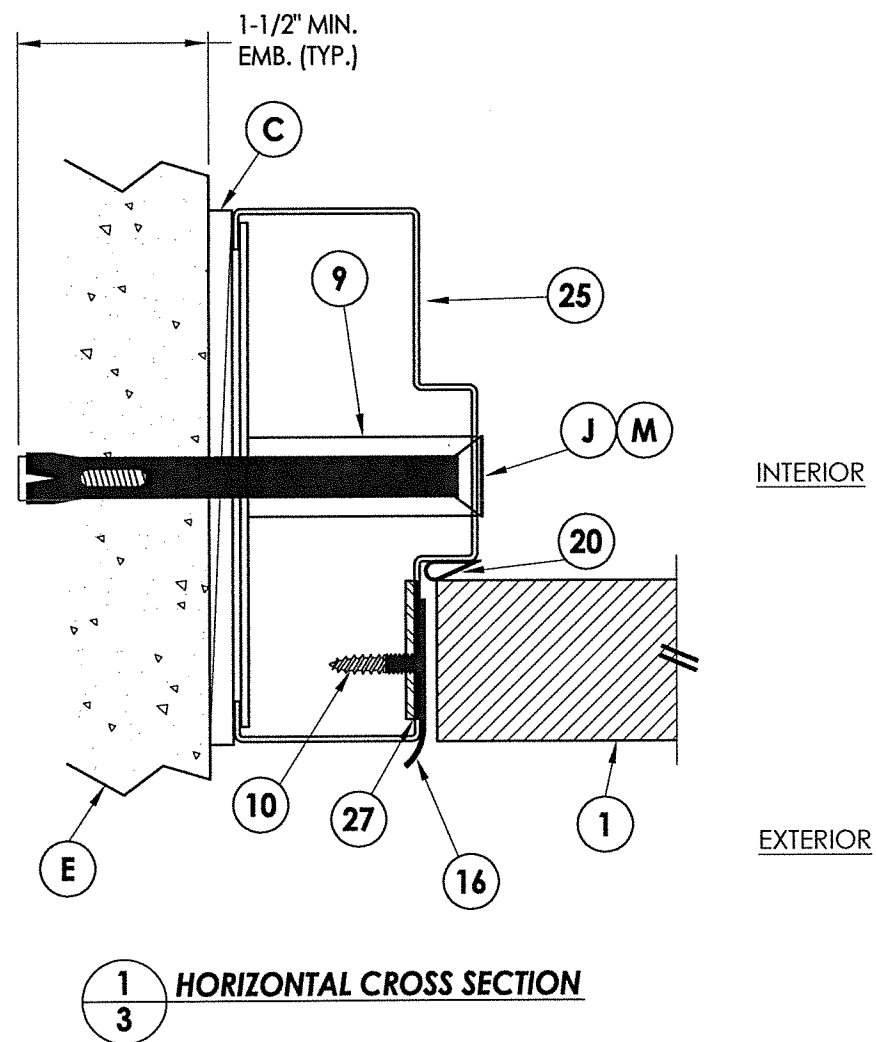


Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

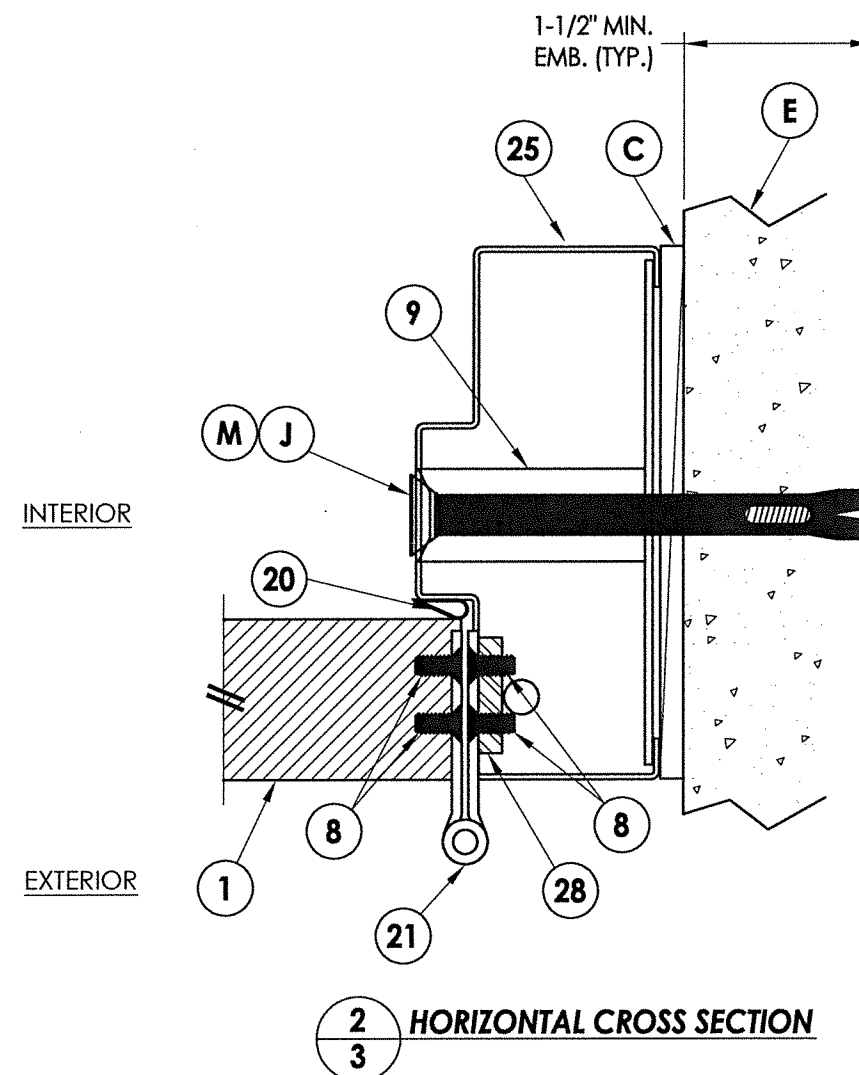
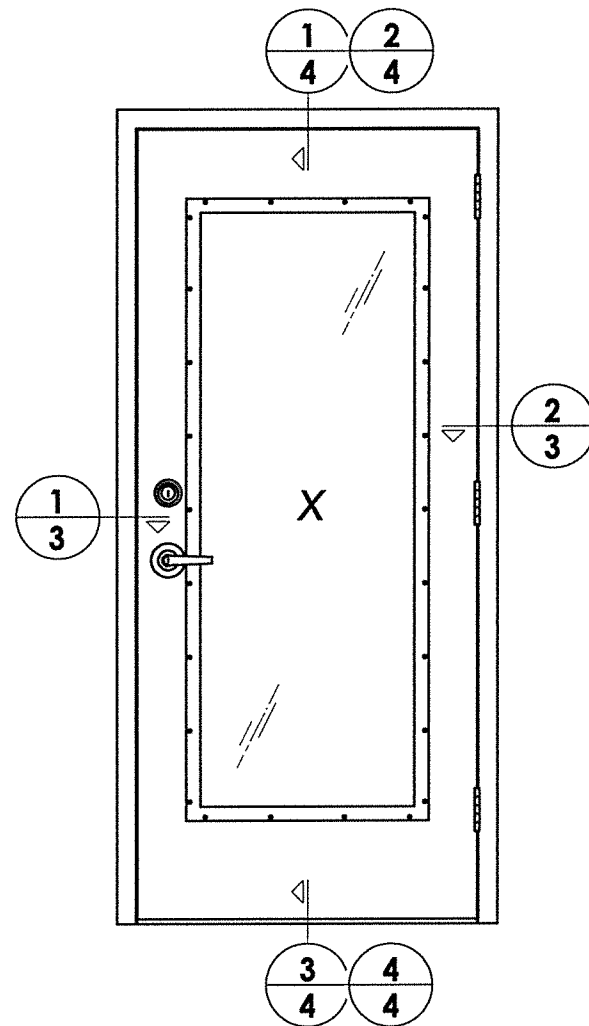
PART OR ASSEMBLY:
DOOR PANEL DETAILS

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

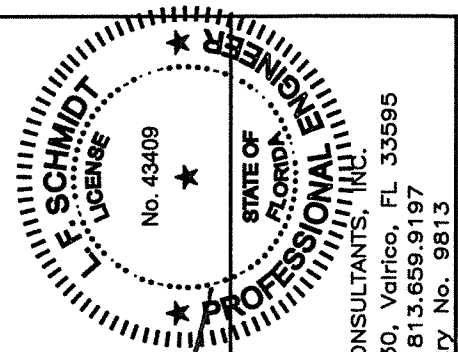
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1 **HORIZONTAL CROSS SECTION**



2 HORIZONTAL CROSS SECTION

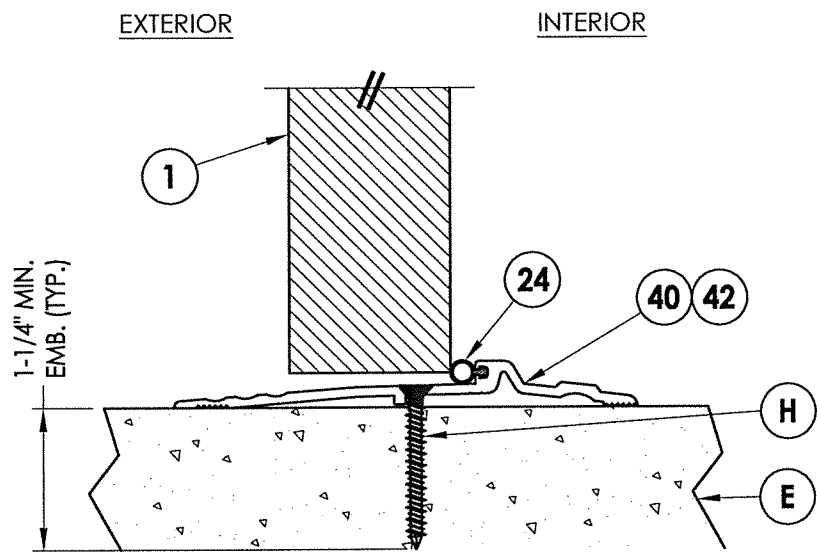


October 5, 2020
Documents Prepared By:
Lyndon F. Schmidt
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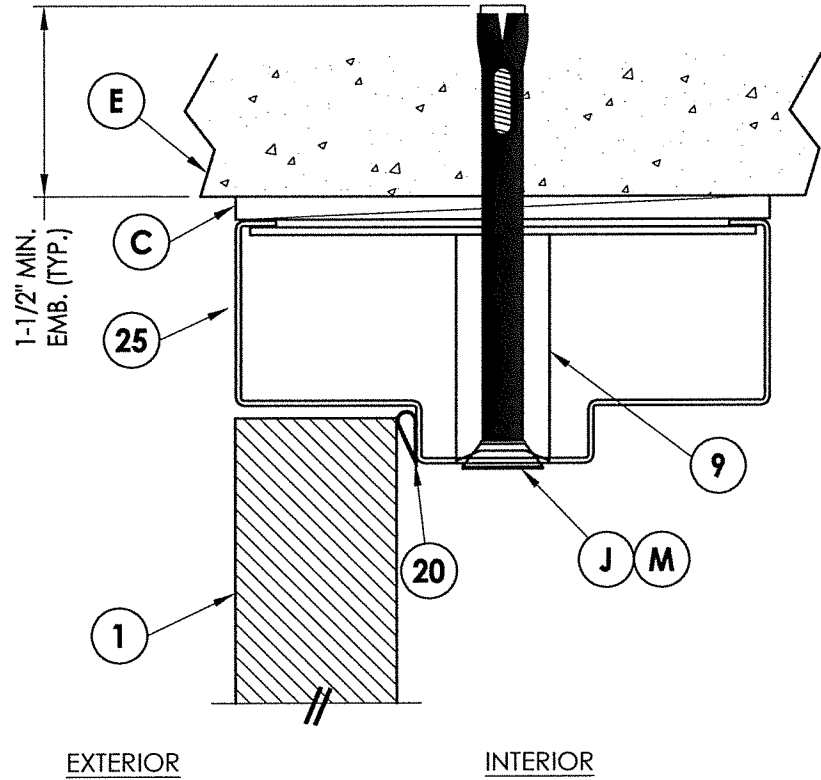


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Phone No.: 813.659.9197
FBPE Registry No. 9813

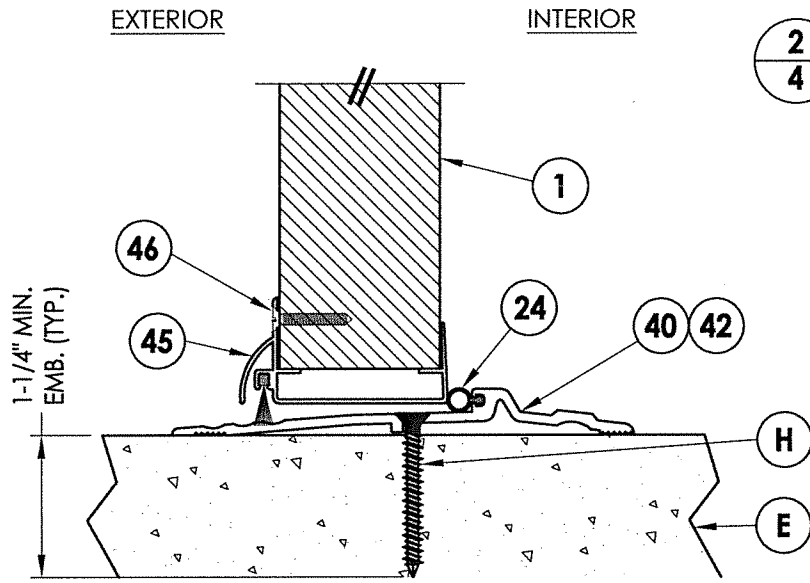
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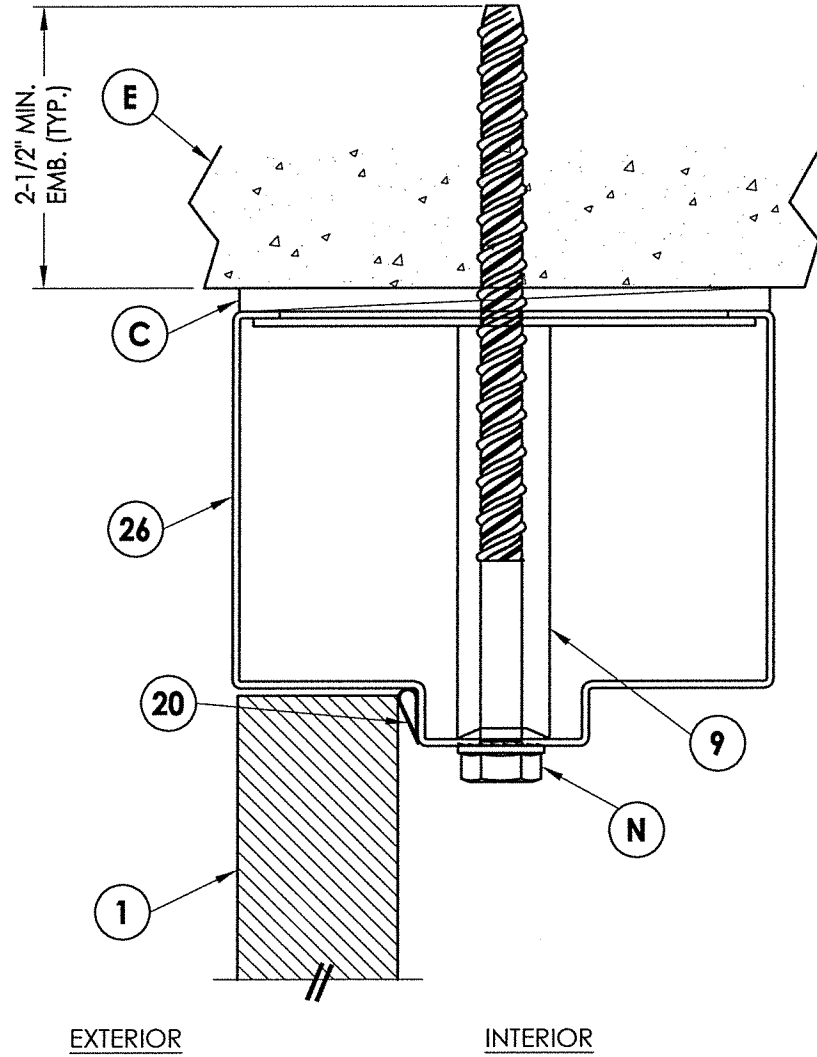
3
4 VERTICAL CROSS SECTION



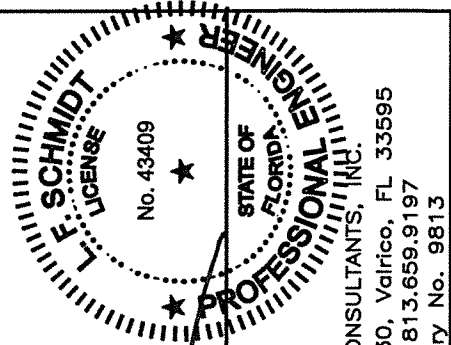
1
4 VERTICAL CROSS SECTION



4
4 VERTICAL CROSS SECTION



2
4 VERTICAL CROSS SECTION

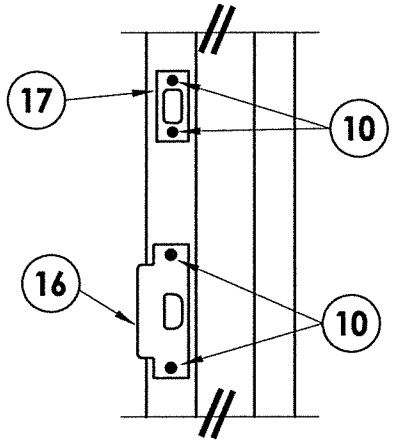


October 5, 2020
Documents Prepared By:
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R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

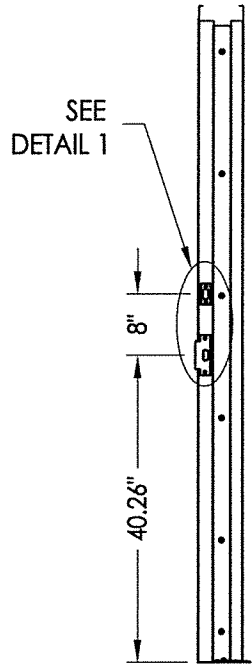
PRODUCT:
MEGAMET INDUSTRIES, INC.
"D" STEEL DOOR
PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

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

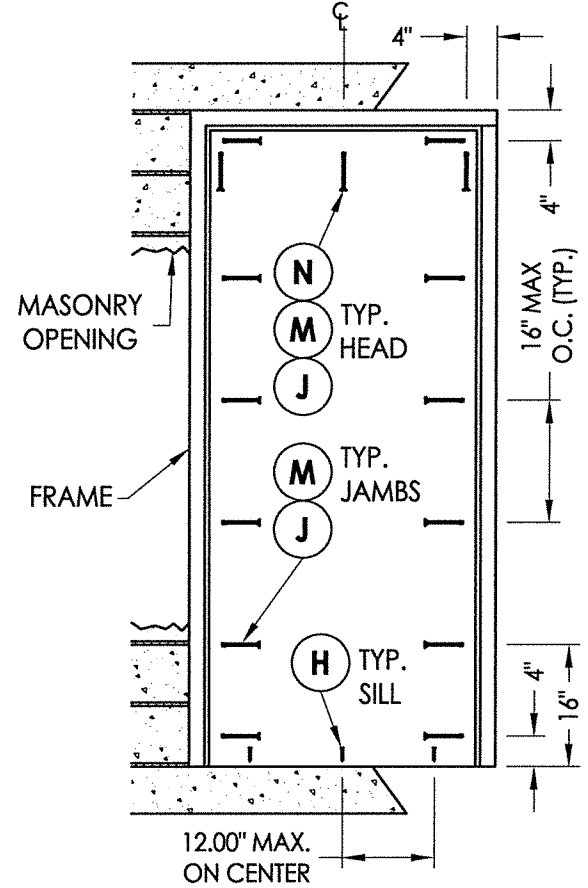
DATE: 7/17/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-16493.1
SHEET 4 OF 7



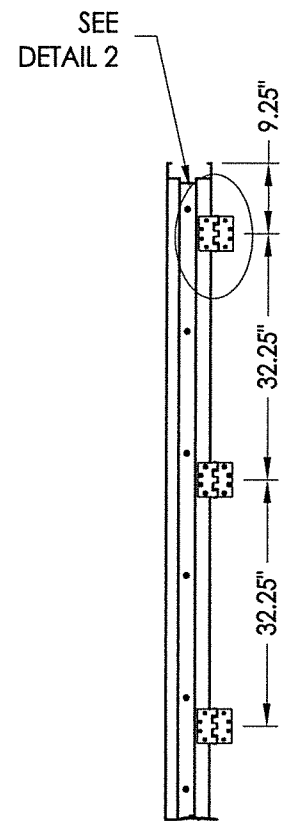
DETAIL 1



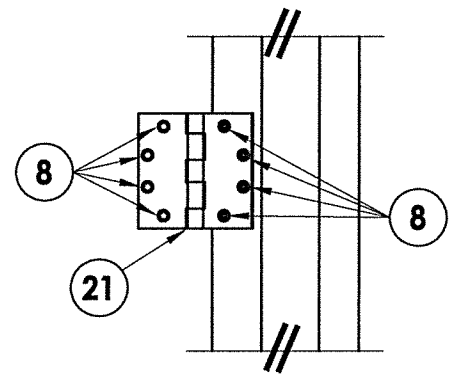
STRIKE JAMB



FRAME ANCHORING



HINGE JAMB

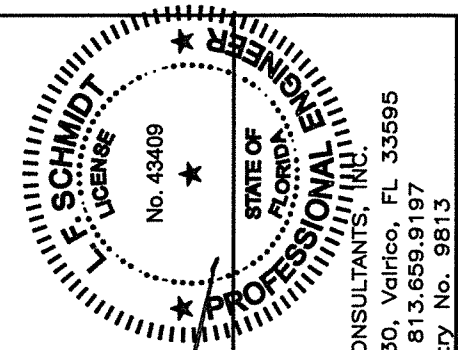


DETAIL 2

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:

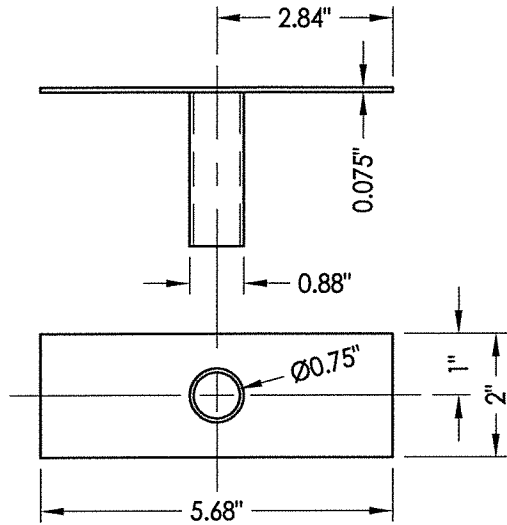
ANCHOR TYPE	ANCHOR SIZE	MINIMUM EMBEDMENT	MINIMUM CLEARANCE TO MASONRY EDGE	MINIMUM CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"
POWERS TAPPER	3/8"	1-1/2"	4"	3-3/4"
SCREW-BOLT+™	1/2"	2-1/2"	6"	6"



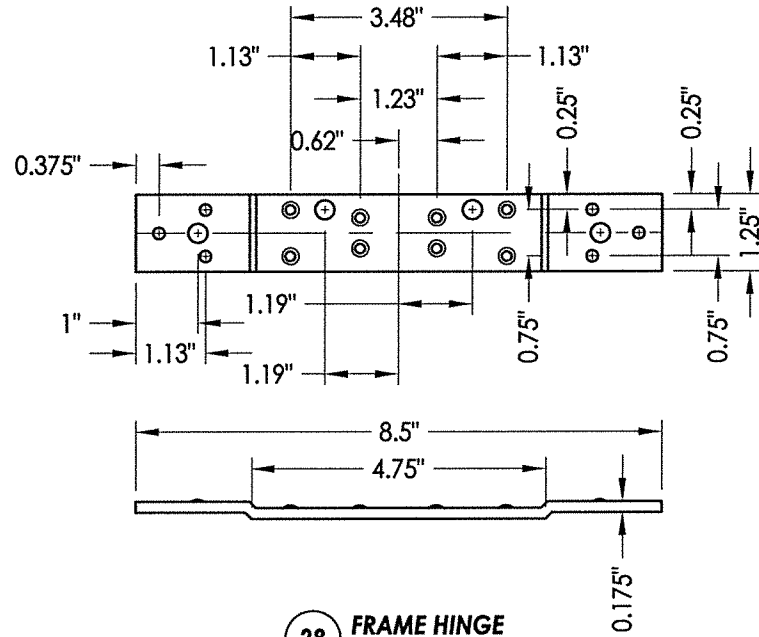
October 5, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		MEGAMET INDUSTRIES, INC.		"D" STEEL DOOR	
PART OR ASSEMBLY:		ANCHORING DETAILS			
REVISIONS		NO.	DATE	BY	
		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-16493.1			
SHEET		5	OF	7	

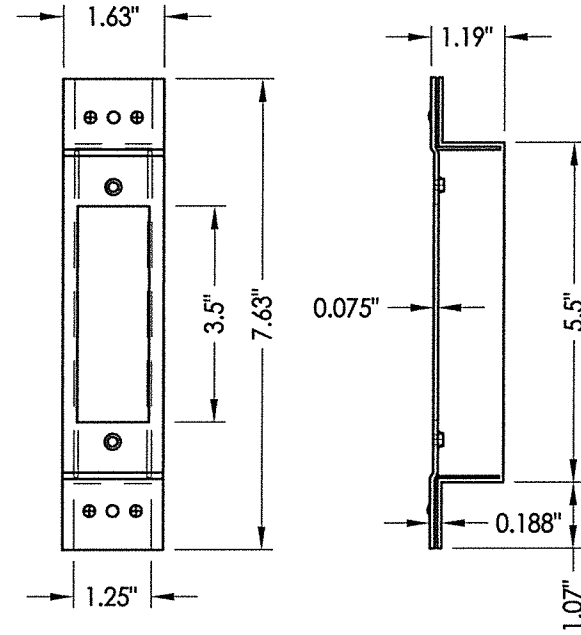
R:\Clients\Megamet PERMANENTVA - Florida Product Approvals\FL-16493\C - Drawings\FL-16493 (2020)\FL-16493.1-12.dwg, 6.1



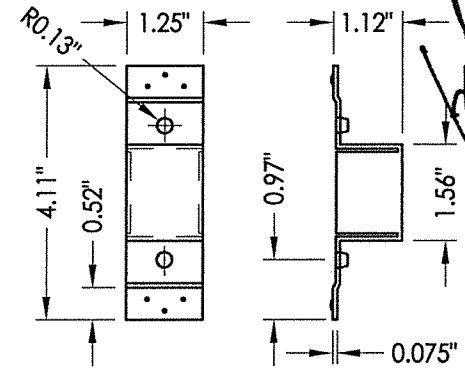
9 TUBE ANCHOR



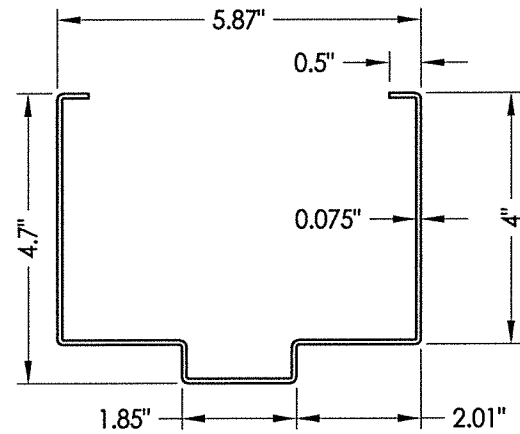
28 FRAME HINGE
Reinforcement



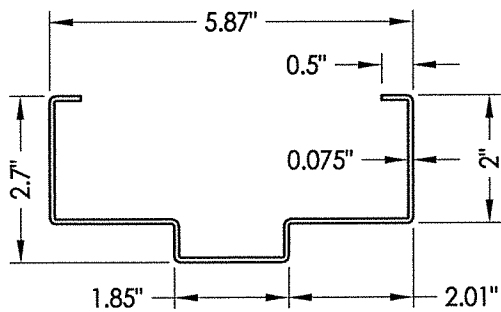
27 LATCH STRIKE REINFORCEMENT



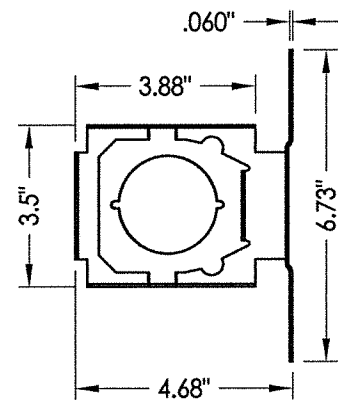
19 DEADBOLT STRIKE REINFORCEMENT



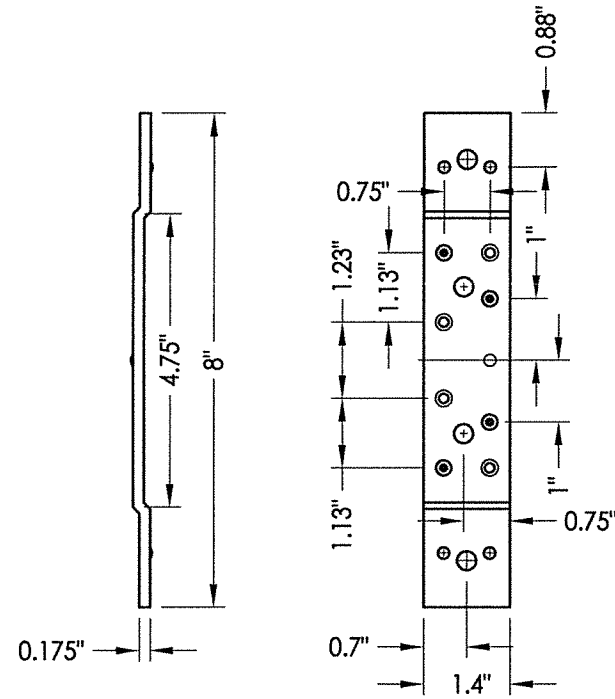
26 FRAME



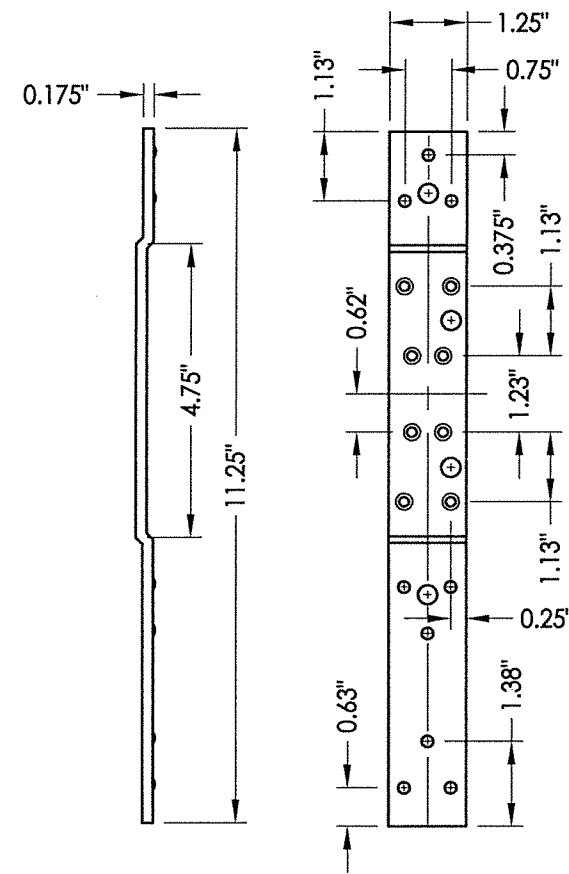
25 HOLLOW METAL FRAME



5 LOCK BOX REINFORCEMENT



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



22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge

October 5, 2020

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

October 5, 2020

FLORIDA
PROFESSIONAL ENGINEER
No. 43409

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

PART OR ASSEMBLY: COMPONENTS

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

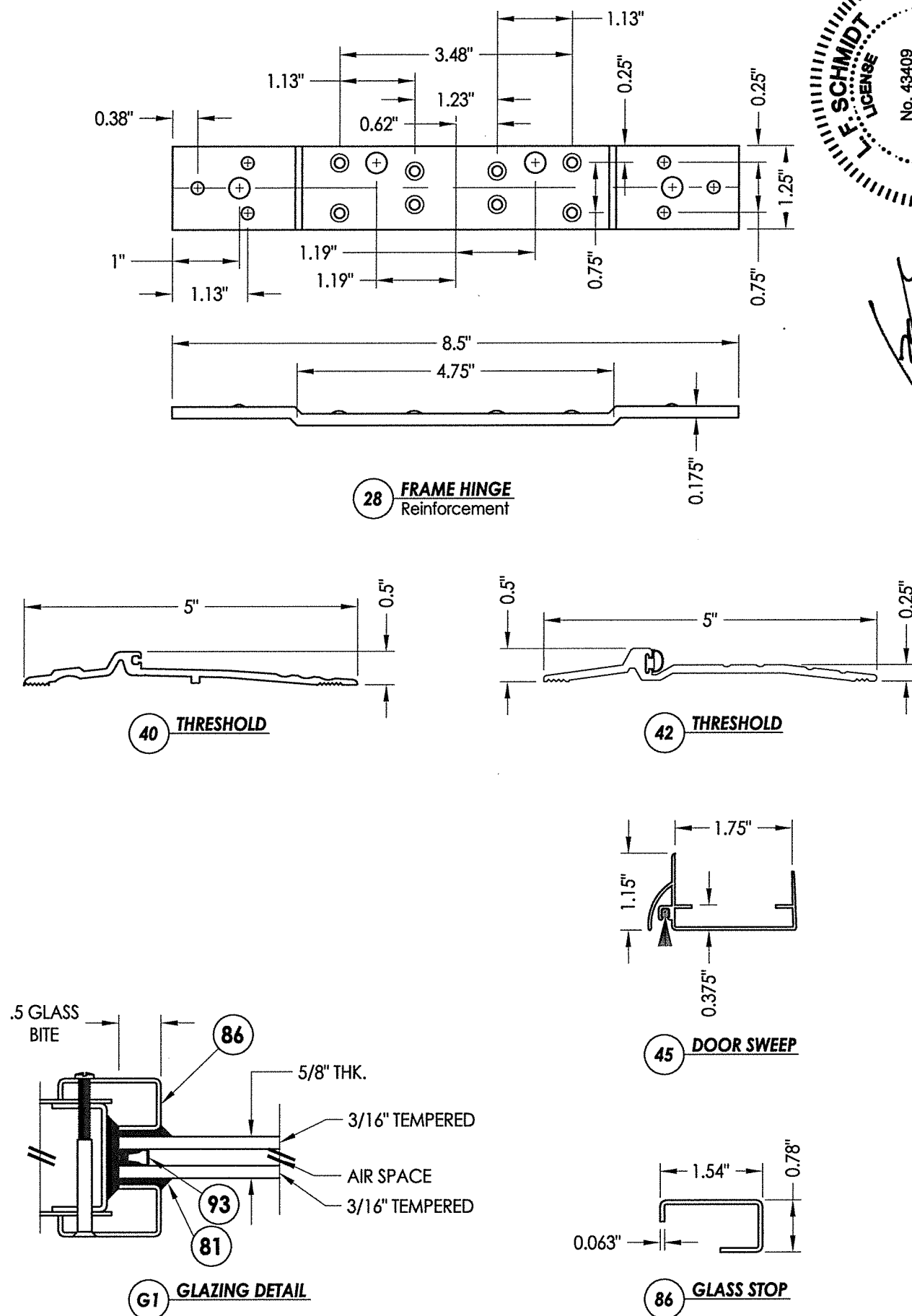
DRAWING NO.: FL-16493.1

SHEET 6 OF 7

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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

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" PFH DeWALT OR ITW 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
N	1/2" X 8" HH SCREW-BOLT+ CONC. ANCHOR (DeWALT/POWERS)	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) WITH 2" HEAD	STEEL
26	FRAME - 14GA (0.075" THK) WITH 4" HEAD	STEEL
27	LATCH STRIKE REINFORCEMENT	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
42	THRESHOLD PEMKO #2005V	ALUMINUM
45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
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
86	LITE FRAME BY AIR LOUVERS #1500-AJ-2464	STEEL
88	#8 X 1-1/2" PPH MS	STEEL
89	SCREW COVER	STEEL
93	GLASS SPACER	ALUMINUM



[Signature]

October 5, 2020

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

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

RW 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:		BILL OF MATERIALS & COMPONENTS			
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
NO.	DATE				
		REVISIONS			
DATE: 7/17/13					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-16493.1					
SHEET 7 OF 7					