

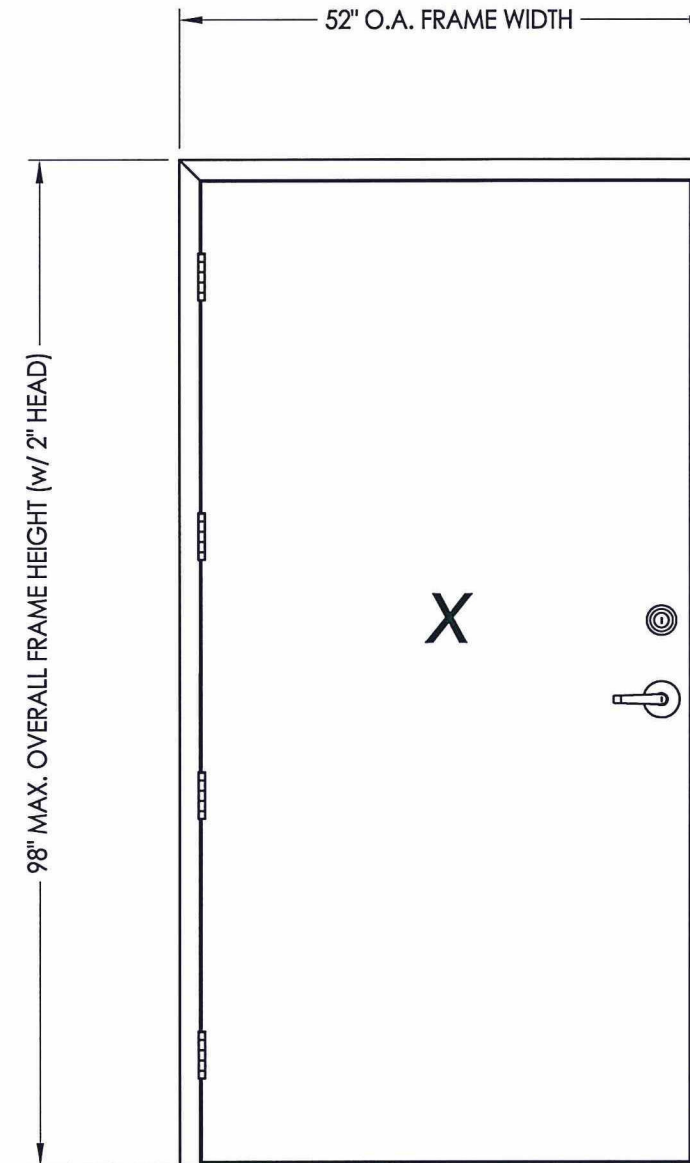


2501 Northchase Pkwy SE
Wilmington, NC 28405

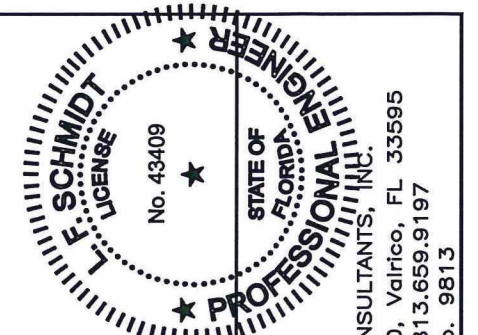
"HH6-PCD" STEEL DOOR OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 5th Edition (2014) 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. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and Section 1609.1.2.2 of the FBC.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. This product does 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.



MAX. OVERALL DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
52.0" X 98.0"	+65.0	-70.0



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BUILDING CONSULTANTS, INC.
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FBPE C.A. No. 9813

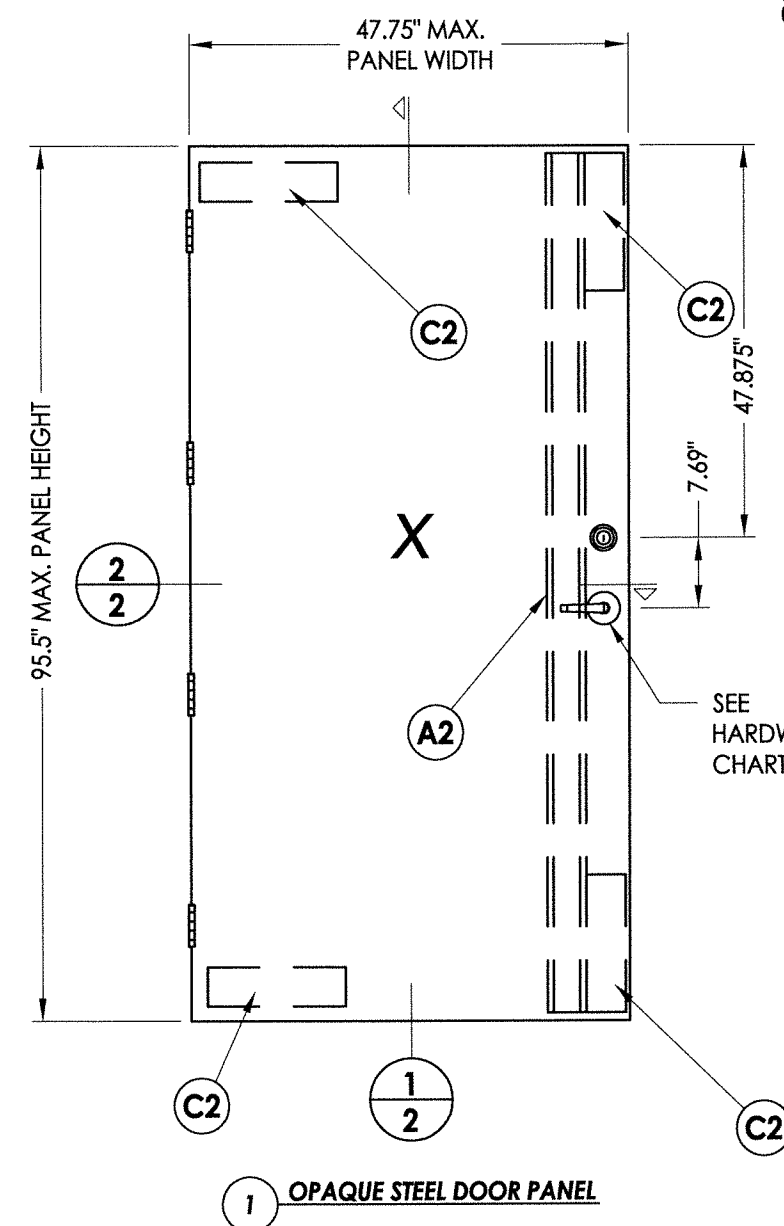
PRODUCT: HMF EXPRESS
PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS

DATE: 8/31/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-18506.5
SHEET 1 OF 7

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

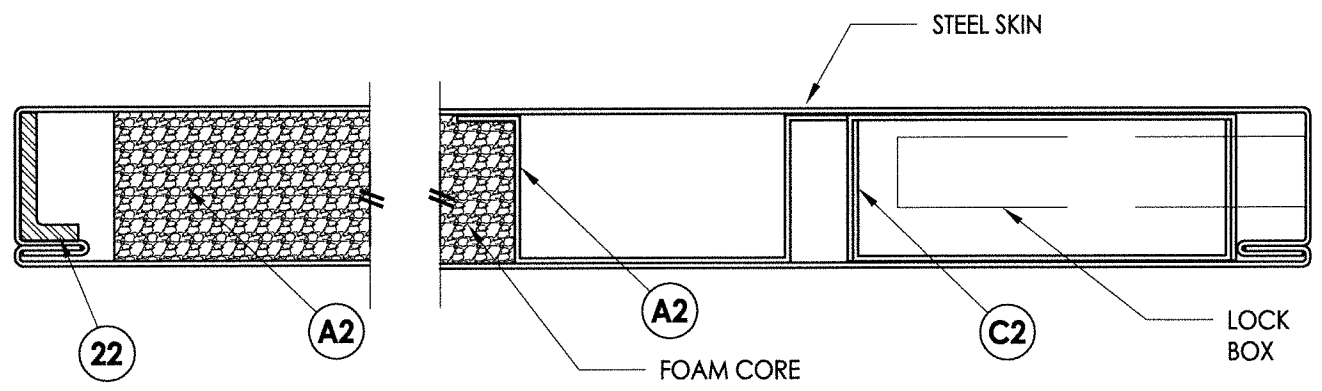
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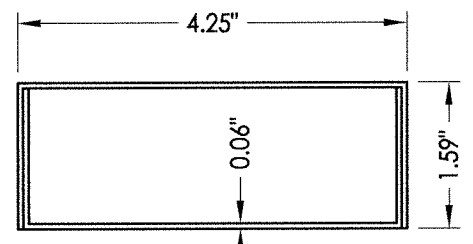
1 OPAQUE STEEL DOOR PANEL

STEEL DOOR SKIN: 16 GA. A60 GALV. (min. 0.058" THK., Fy = 48,400 psi min.)
 CORE MATERIAL: EPS Foam (Polystyrene - 1.0 PCF Min. Density)

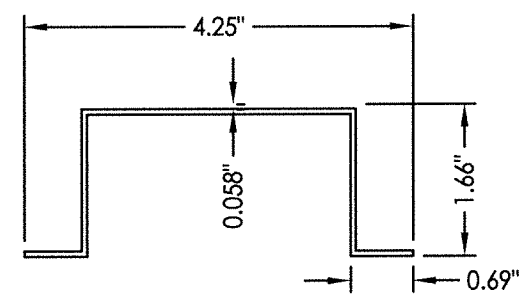
HARDWARE CHART	
MANUFACTURER	MODEL
HAGER	LEVER: 3500 SERIES DEADBOLT: 3200 SERIES



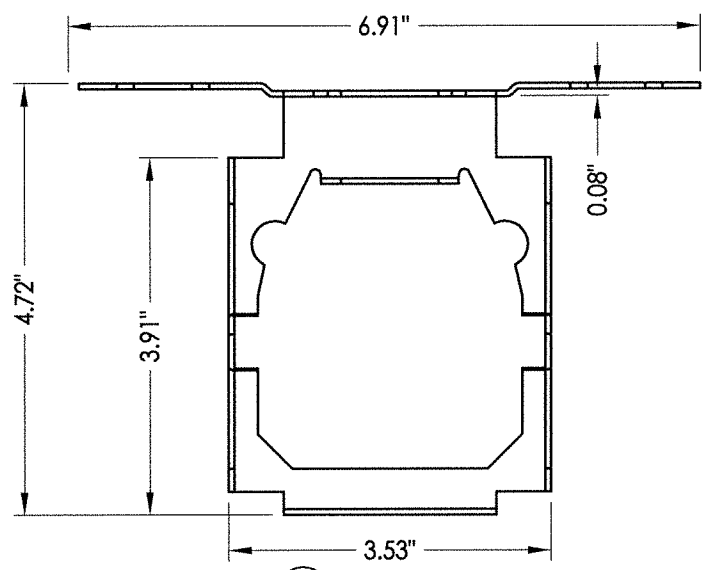
2 HORIZONTAL CROSS SECTION
2 Door panel



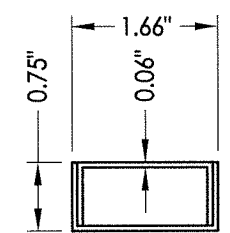
C2 BOX CHANNEL REINFORCEMENT
A60 Galv. Steel (15" LONG)



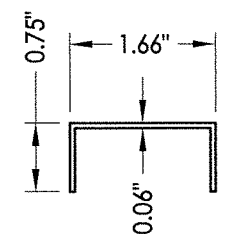
A2 RIB STIFFENER
A60 Galv. Steel



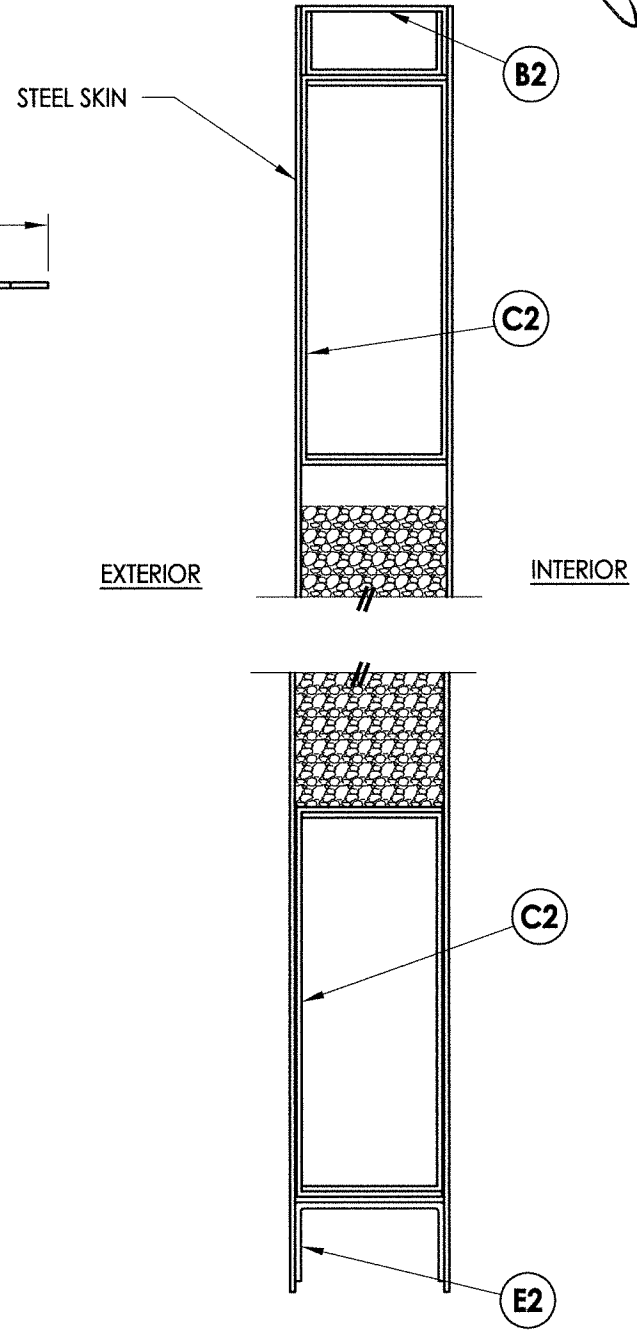
D2 LOCK BOX



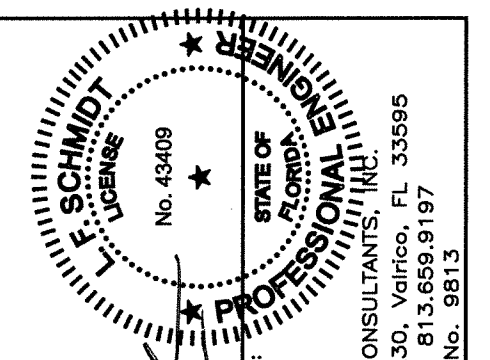
B2 TOP CHANNEL
A60 Galv. Steel



E2 BOTTOM CHANNEL
A60 Galv. Steel



1 VERTICAL CROSS SECTION
2 Door panel



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PRODUCT:	HMF EXPRESS
PART OR ASSEMBLY:	DOOR PANEL DETAILS

NO.	DATE	BY

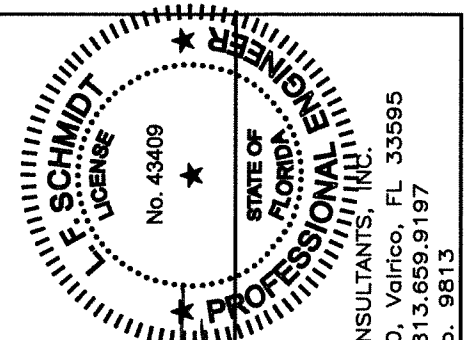
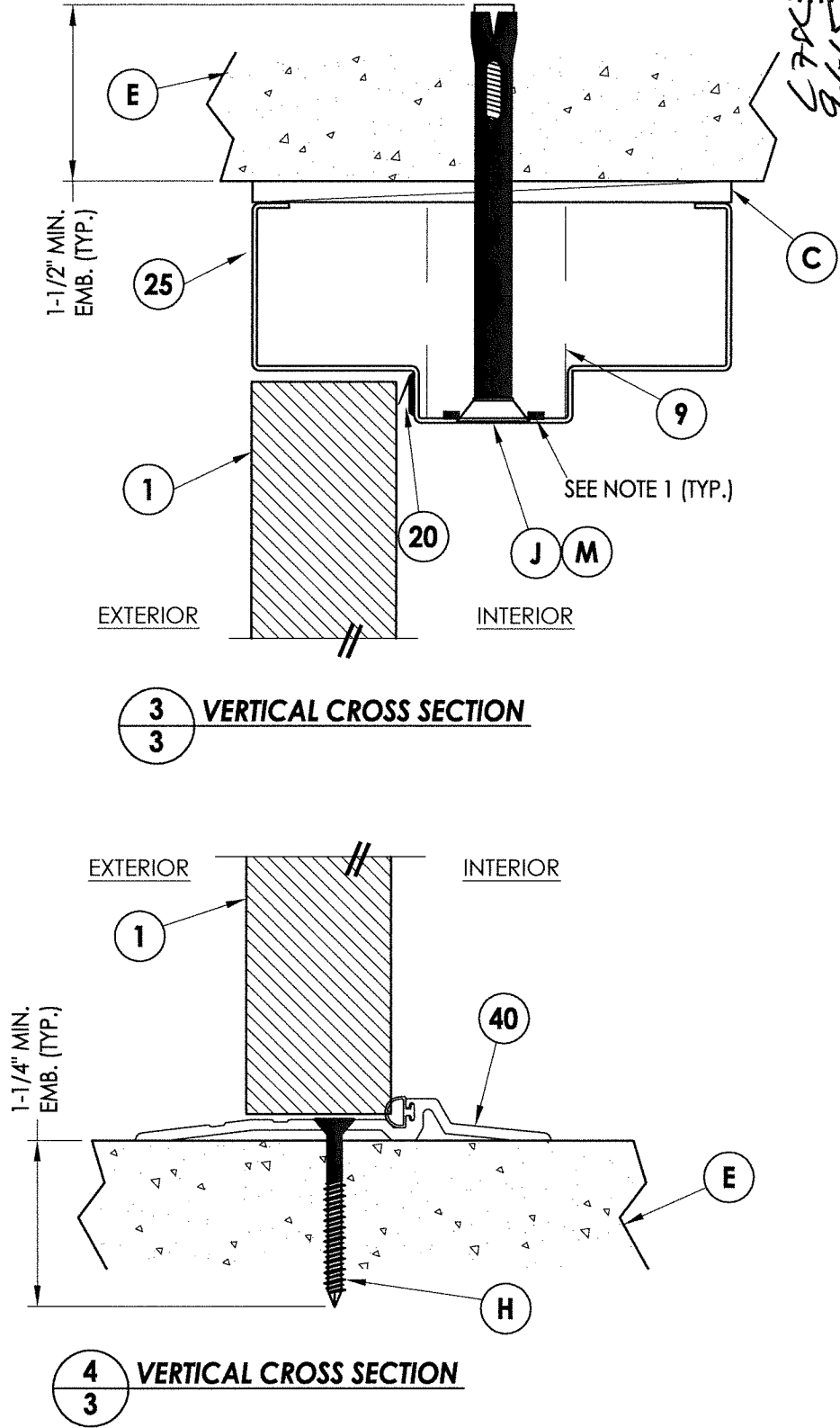
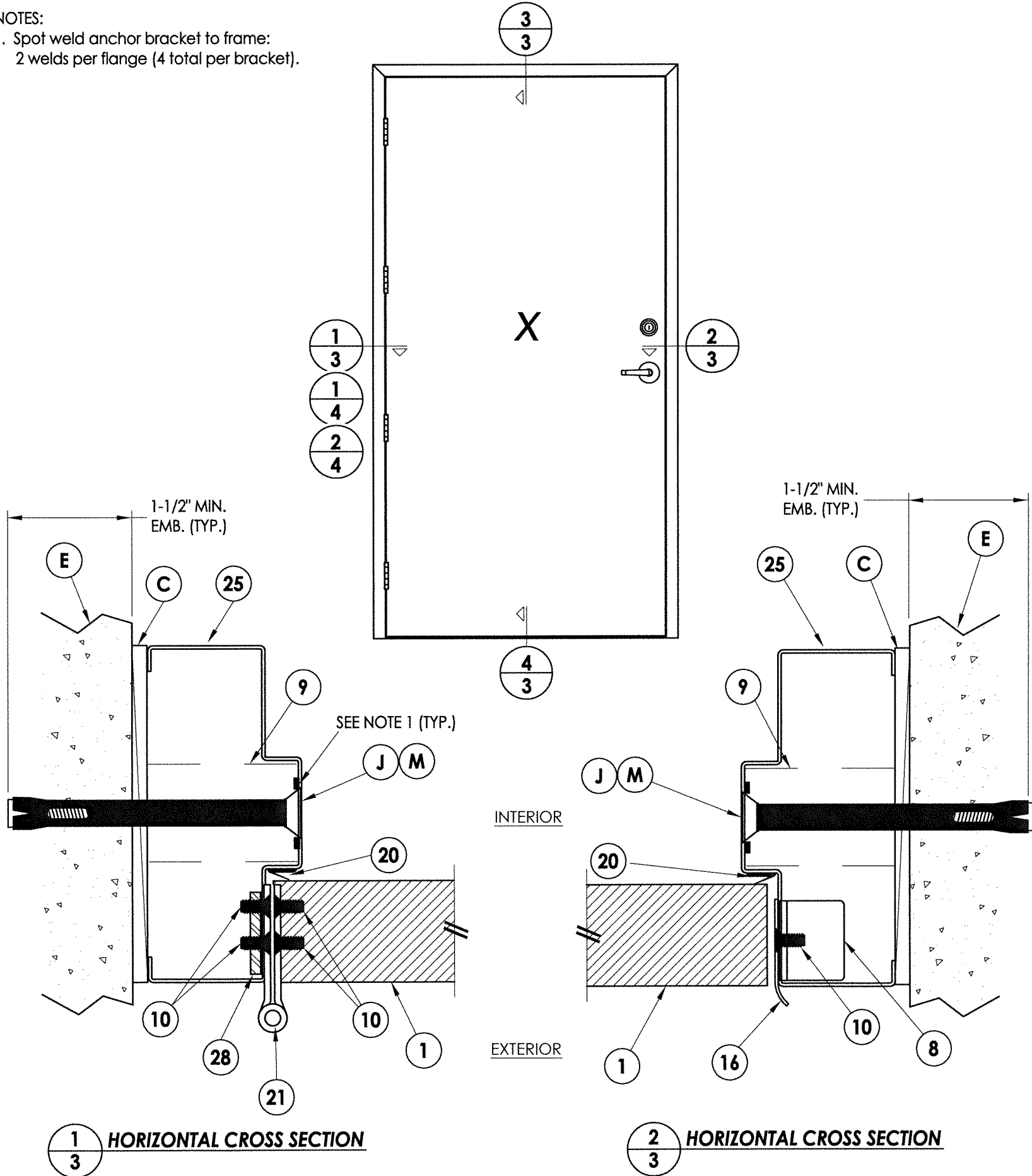
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-18506.5
SHEET	2 OF 7

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NOTES:

- 1. Spot weld anchor bracket to frame:
2 welds per flange (4 total per bracket).



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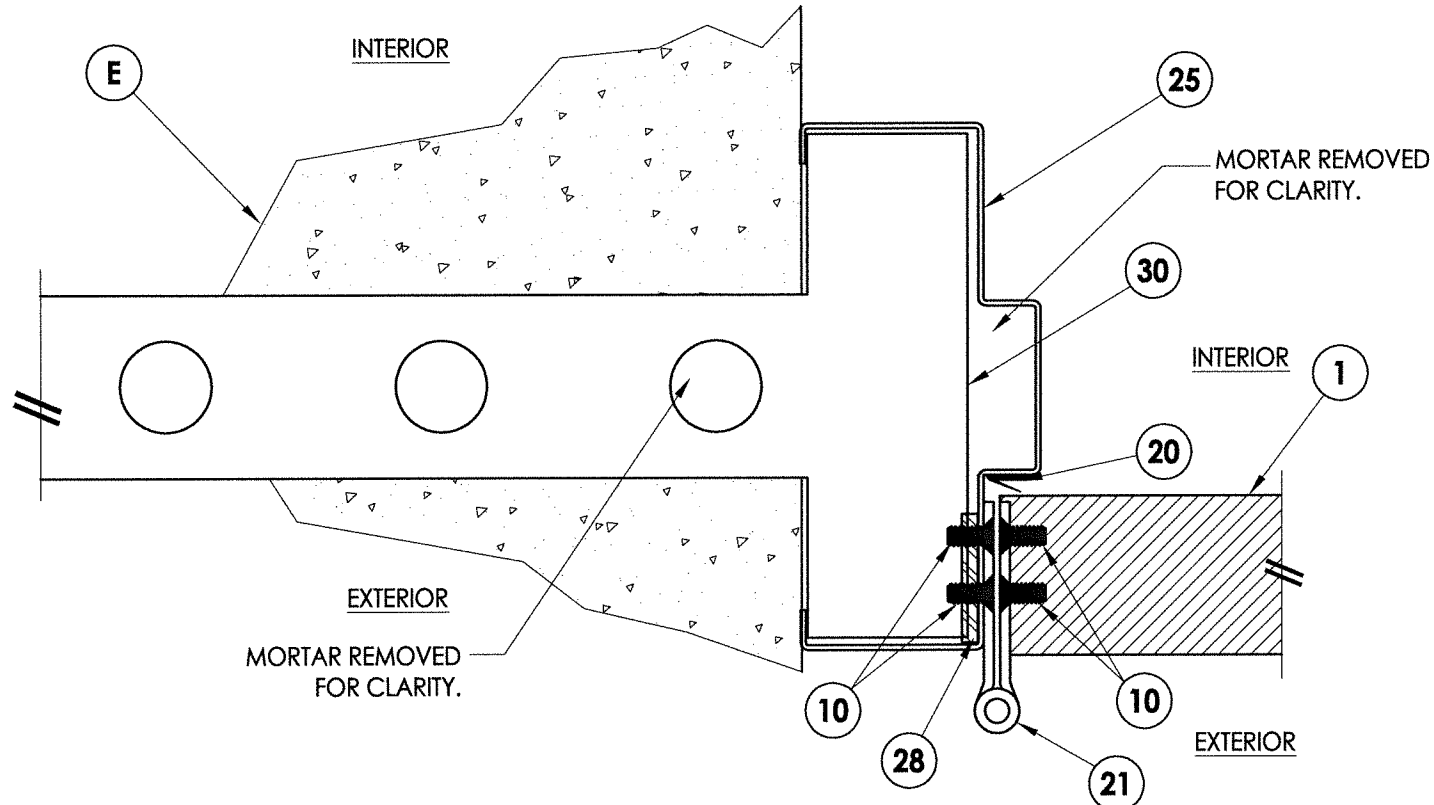
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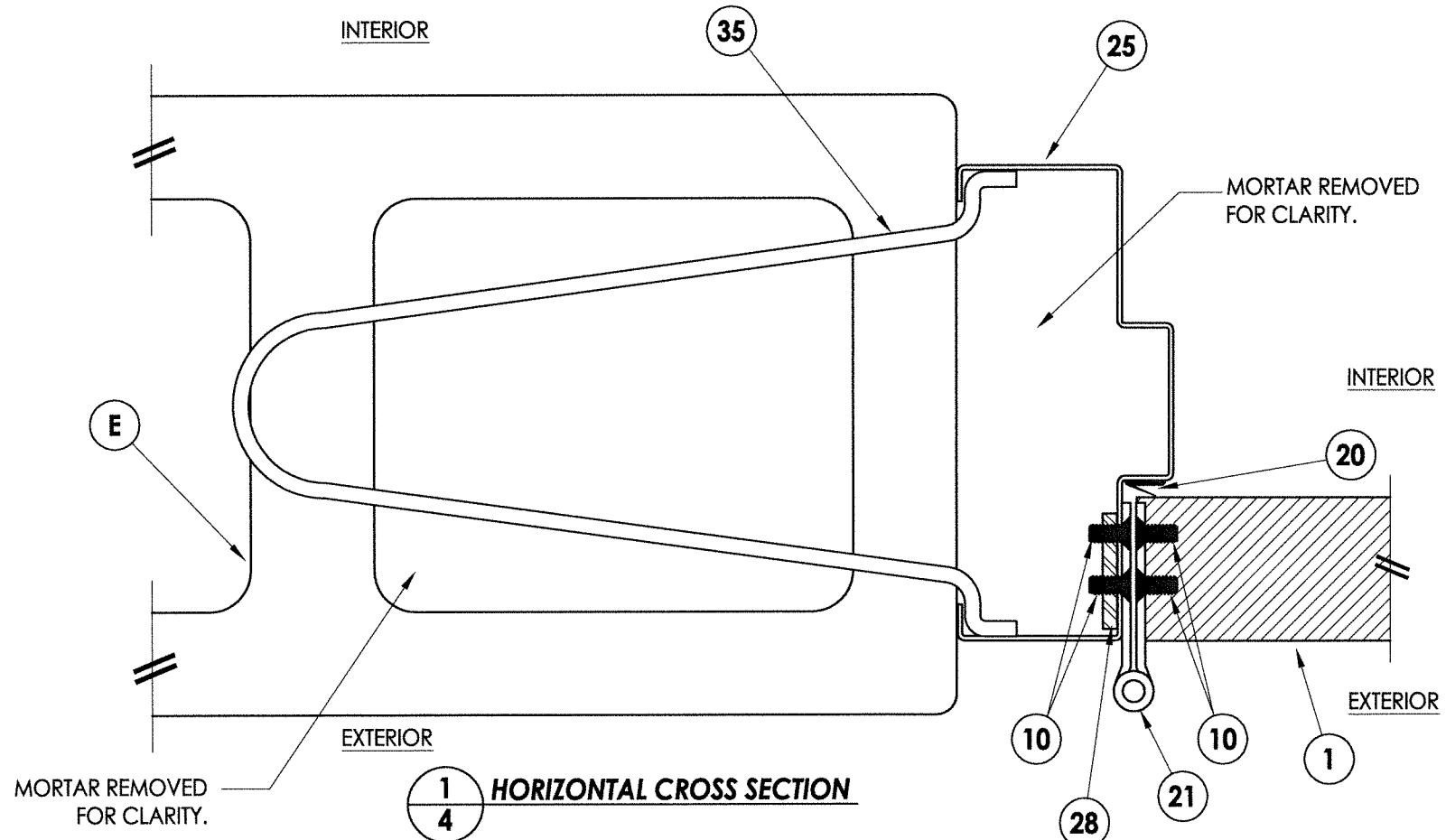
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS

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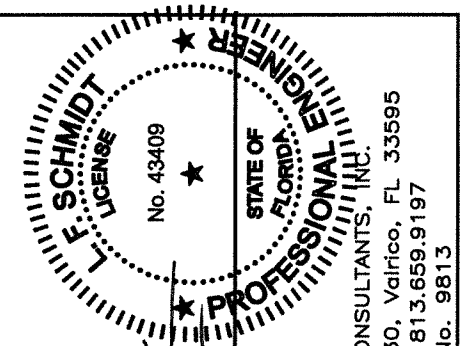
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SHEET 3 OF 7



2
4 HORIZONTAL CROSS SECTION



1
4 HORIZONTAL CROSS SECTION



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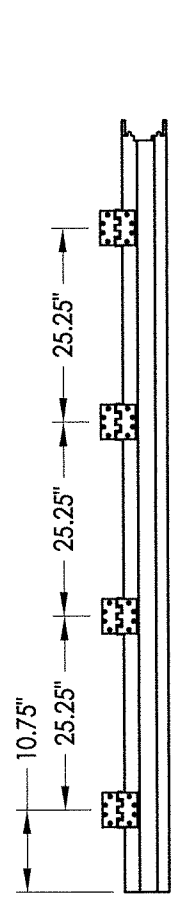
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PRODUCT:	HMF EXPRESS
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS

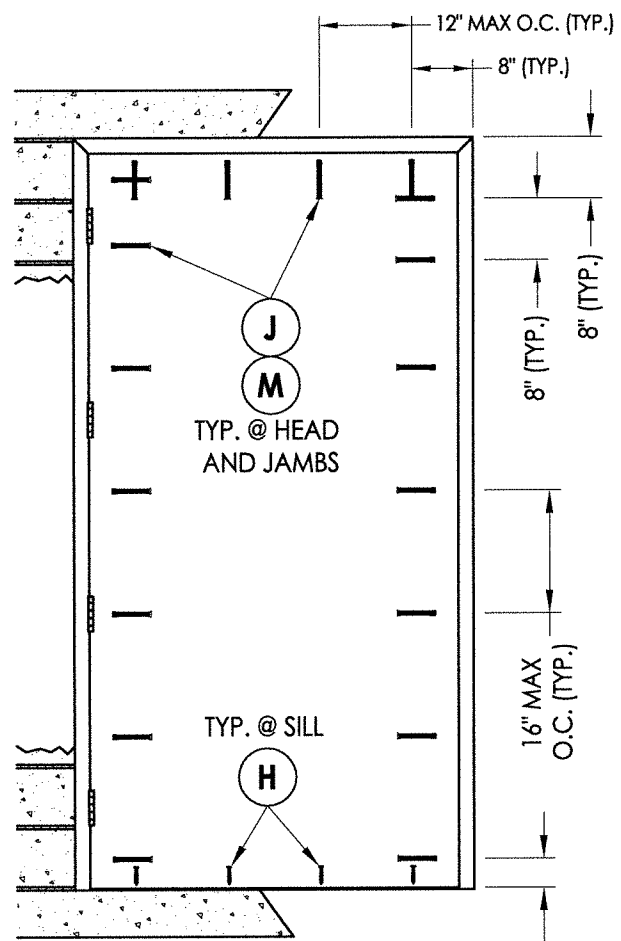
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SHEET	4 OF 7

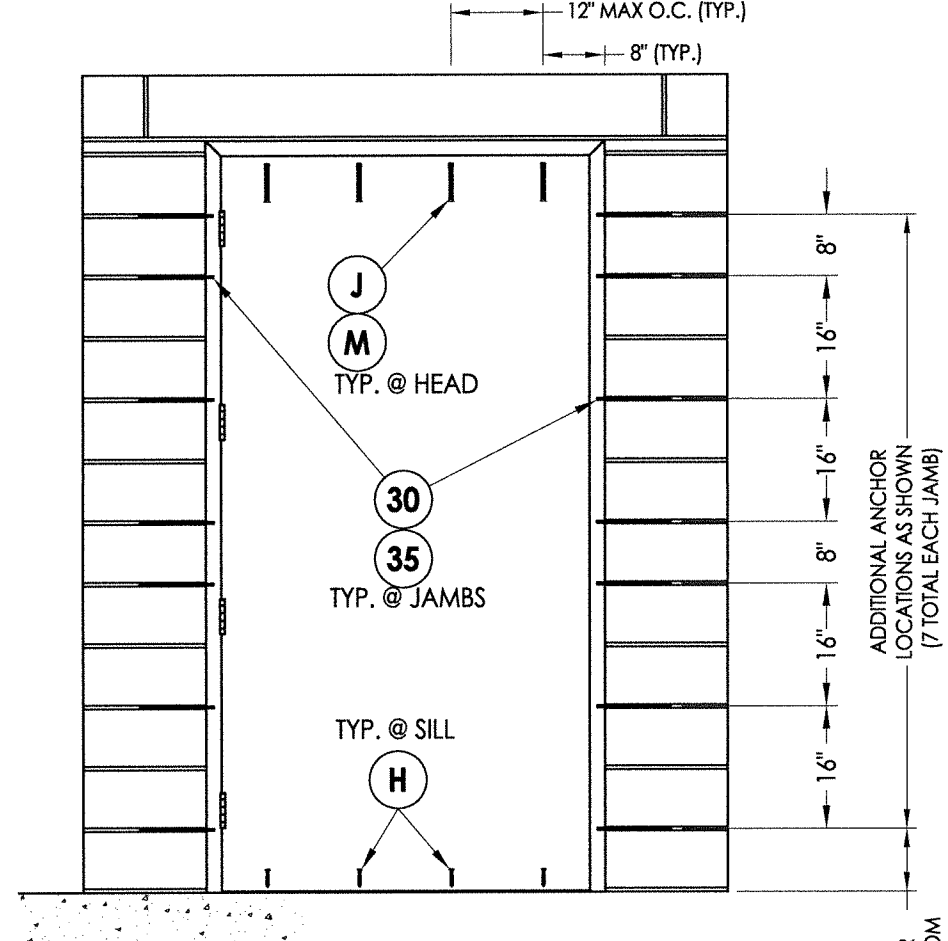
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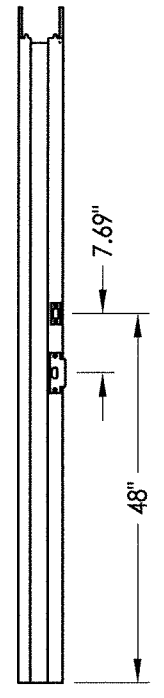
HINGE JAMB



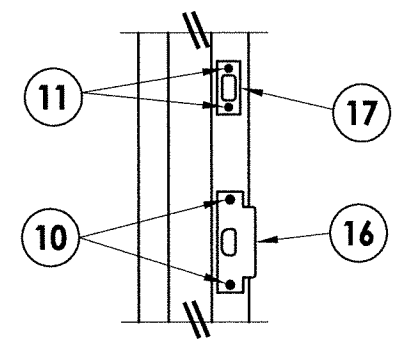
FRAME ANCHORING
Masonry Construction
Concrete Anchors



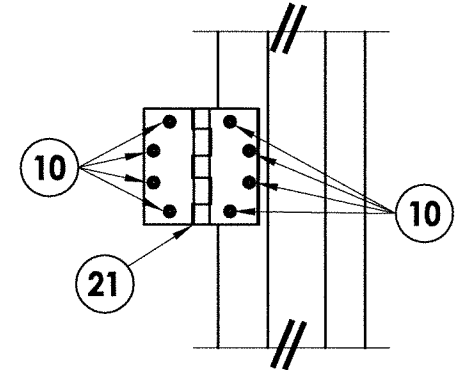
FRAME ANCHORING
Masonry Construction
Masonry Anchors



STRIKE JAMB



STRIKE DETAIL

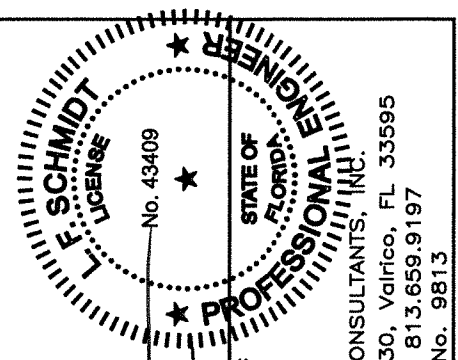


HINGE DETAIL

CONCRETE ANCHOR NOTES:

- Concrete screw locations may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." 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.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON® (ITW BUILDEX)	2-1/2"	1-1/4"
			ULTRACON® (ELCO) CRETE-FLEX® (ELCO) TAPPER+® (POWERS)		
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

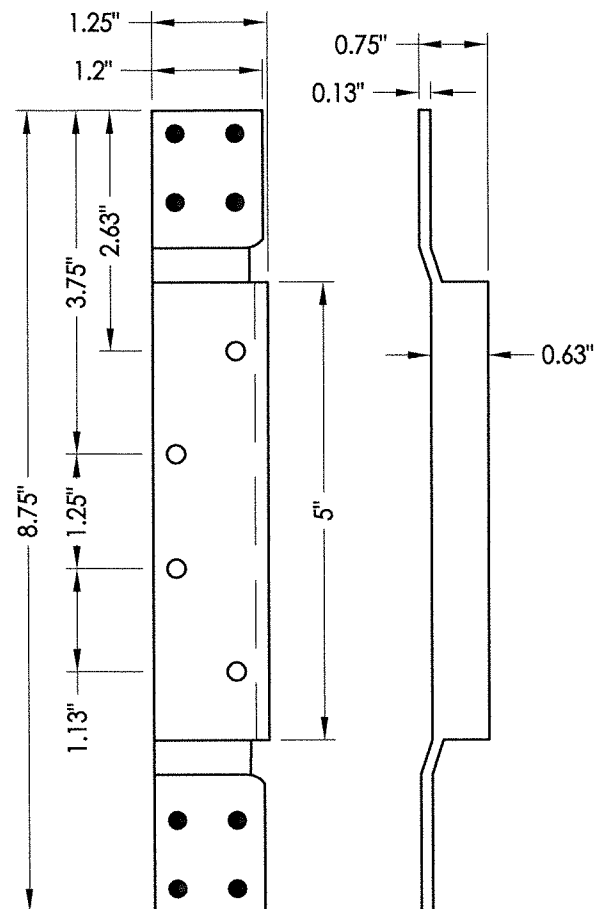


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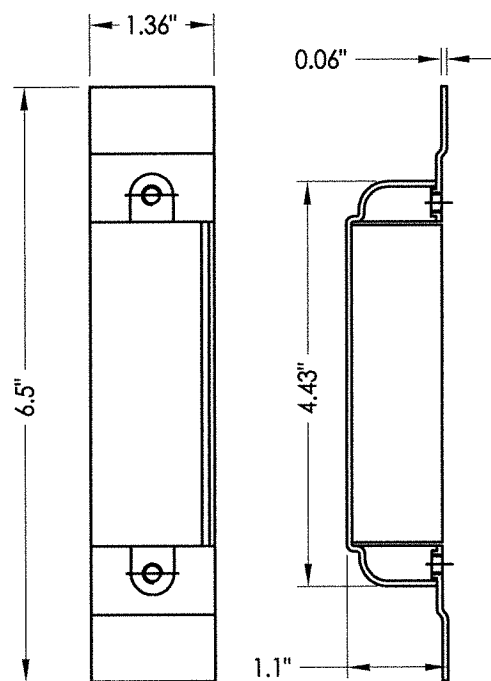
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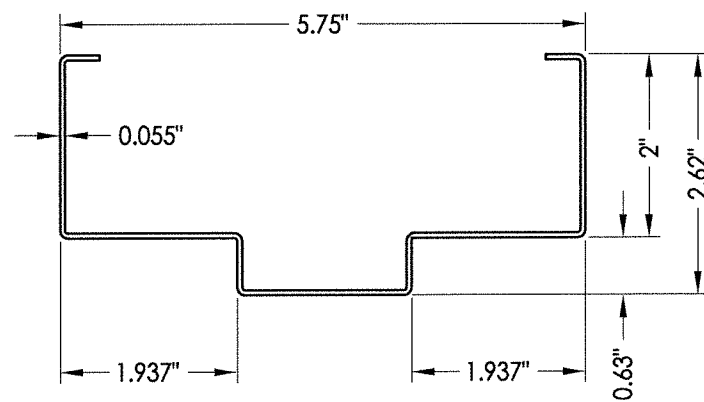
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PART OR ASSEMBLY:	ANCHORING DETAILS
NO.	DATE
BY	
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DATE:	8/31/15
SCALE:	N.T.S.
DWG. BY:	JK
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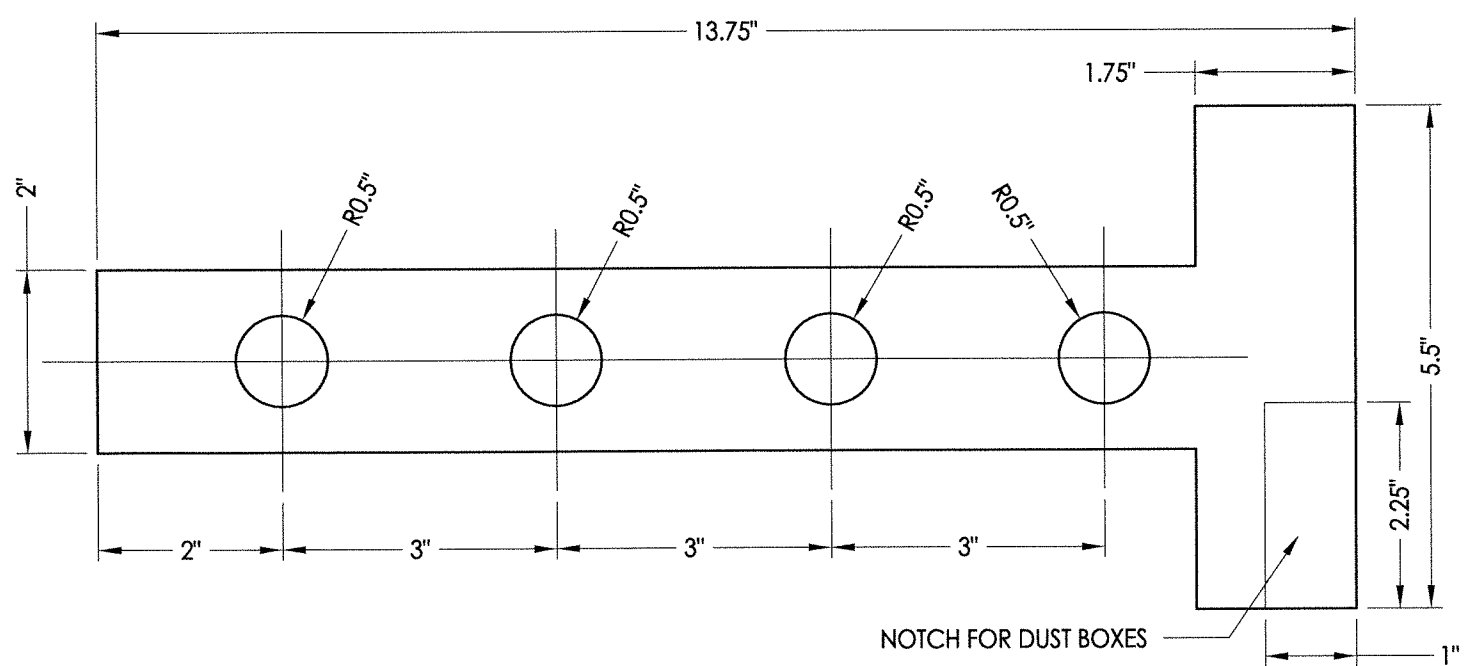
22 DOOR HINGE REINFORCEMENT



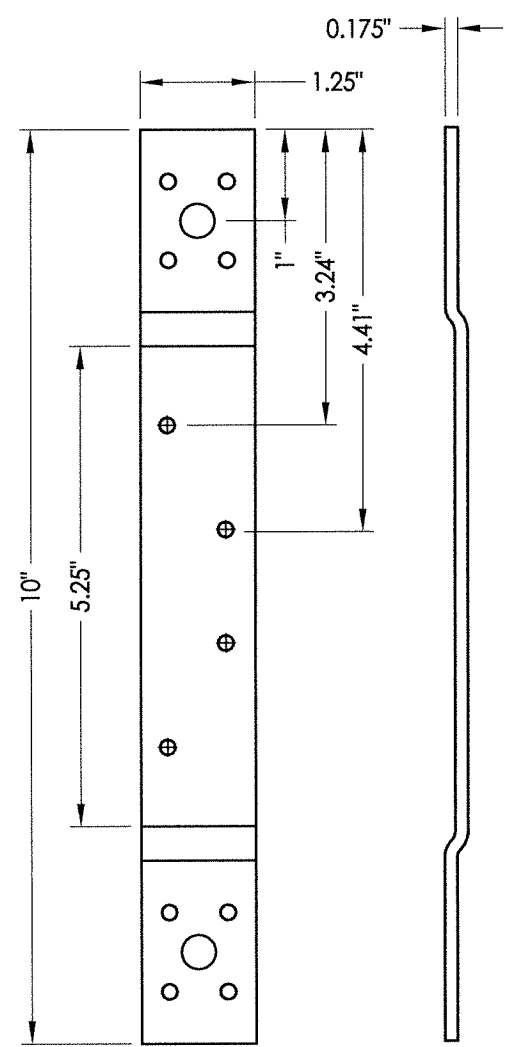
8 DUST BOX



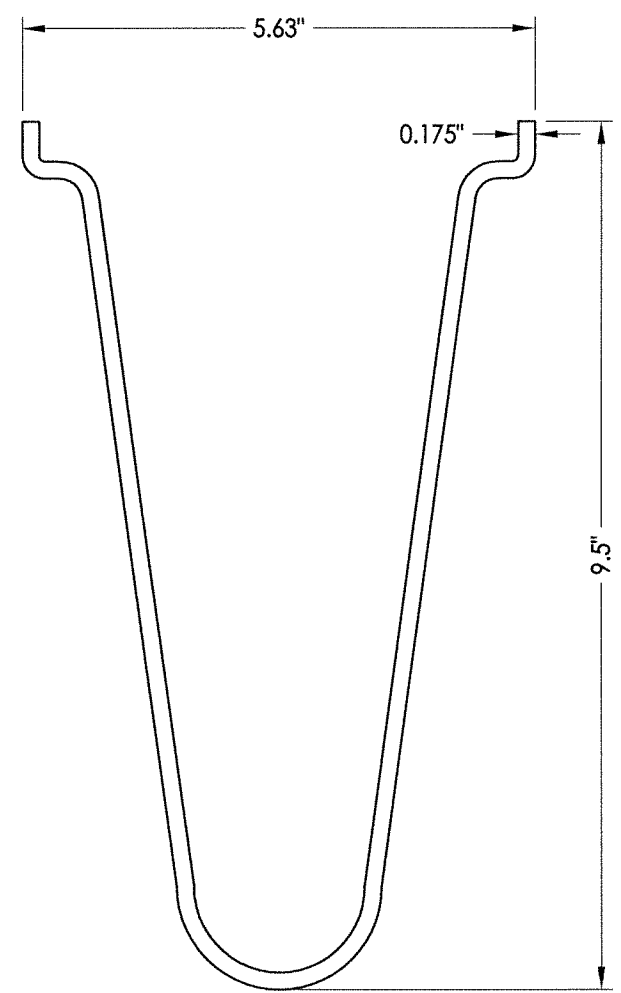
25 HOLLOW METAL FRAME
2" (Jamb)



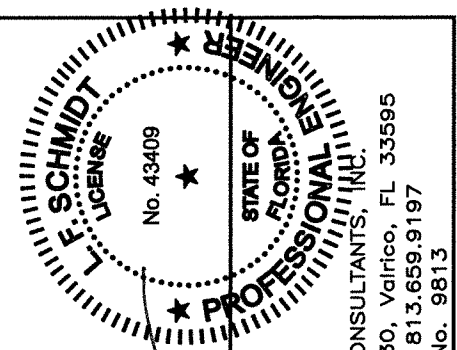
30 T ANCHOR
0.056" Thick Steel



28 FRAME HINGE REINFORCEMENT



35 WIRE ANCHOR



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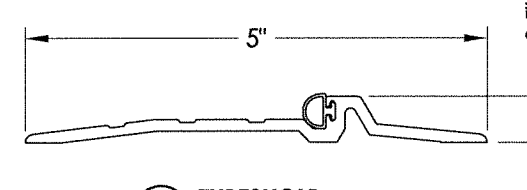
PRODUCT: HMF EXPRESS

PART OR ASSEMBLY: COMPONENTS

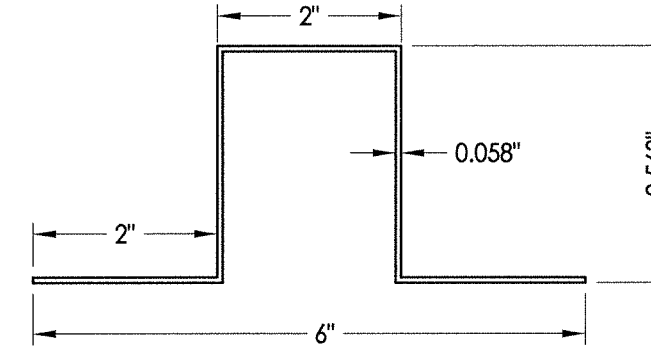
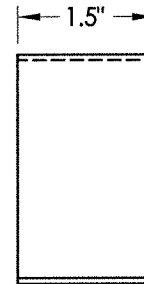
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DATE: 8/31/15
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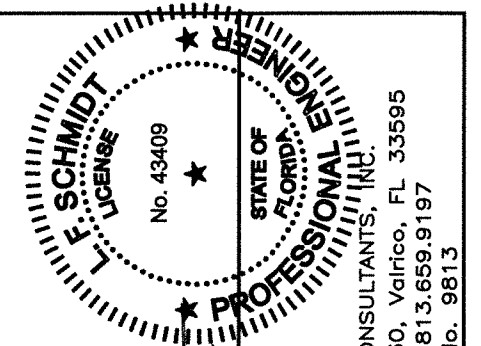
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
H	1/4" X 1-3/4" PFH CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
J	3/8" X 5" PFH DYNABOLT SLEEVE ANCHOR (SEE CONCRETE ANCHOR TABLE)	STEEL
M	3/8" X 5" LDT TAPCON CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
1	STEEL DOOR PANEL	-
8	DUST BOX	STEEL
9	ANCHOR BRACKET	STEEL
10	#12-24 X 1/2" PFH MACHINE SCREW	STEEL
11	#8 x 3/4" COMBINATION WOOD/MACHINE SCREW	STEEL
16	ANSI LATCH STRIKE	STEEL
17	DEADBOLT STRIKE	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL
20	WEATHERSTRIP (HAGER #720)	NEOPRENE
21	4-1/2" X 4-1/2" X 0.125" HINGE	STEEL
22	DOOR HINGE REINFORCEMENT	STEEL
25	HOLLOW FRAME (2" JAMB) - 16GA (0.055" THK)	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
30	MASONRY 'T' ANCHOR	STEEL
35	WIRE ANCHOR	STEEL
40	THRESHOLD (HAGER #520S)	ALUMINUM



40 THRESHOLD



9 ANCHOR BRACKET



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PRODUCT: HMF EXPRESS
PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

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CHK. BY: LFS
DRAWING NO.: FL-18506.5
SHEET 7 OF 7