

HMF EXPRESS

2501 Northchase Pkwy SE
Wilmington, NC 28405

"HH6-PCD" STEEL DOOR w/ SIDELITE & TRANSOM

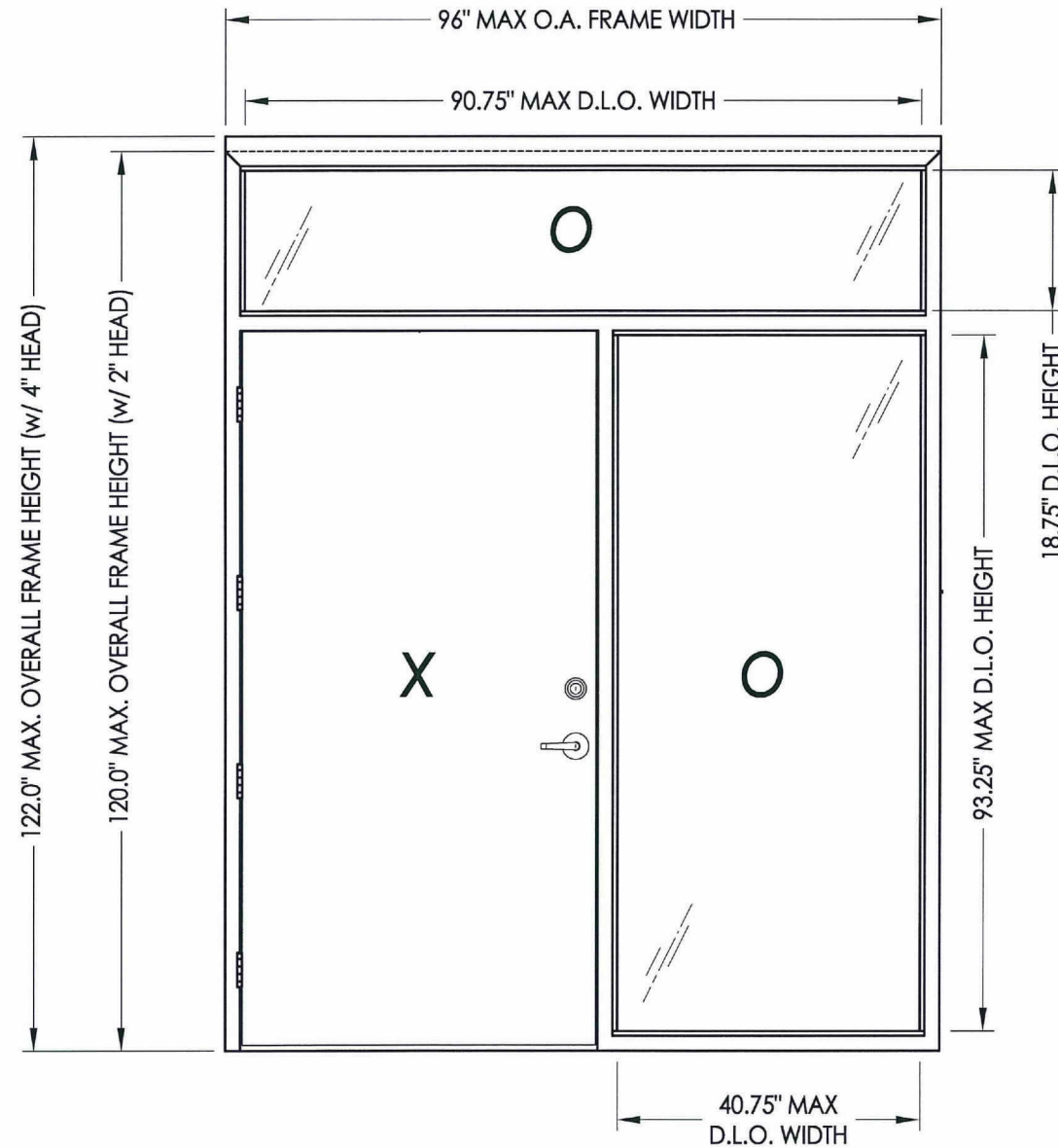
**OUTSWING
"IMPACT"**

GENERAL NOTES

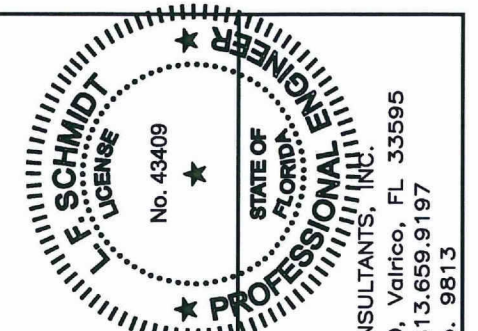
1. This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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.

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1	Typical elevations, design pressures, & general notes
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5	Horizontal cross sections
6	Vertical cross sections
7	Anchoring details
8	Anchoring details
9	Components
10	Bill of materials and components



MAX. OVERALL DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
96.0" X 122.0"	+65.0	-70.0



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

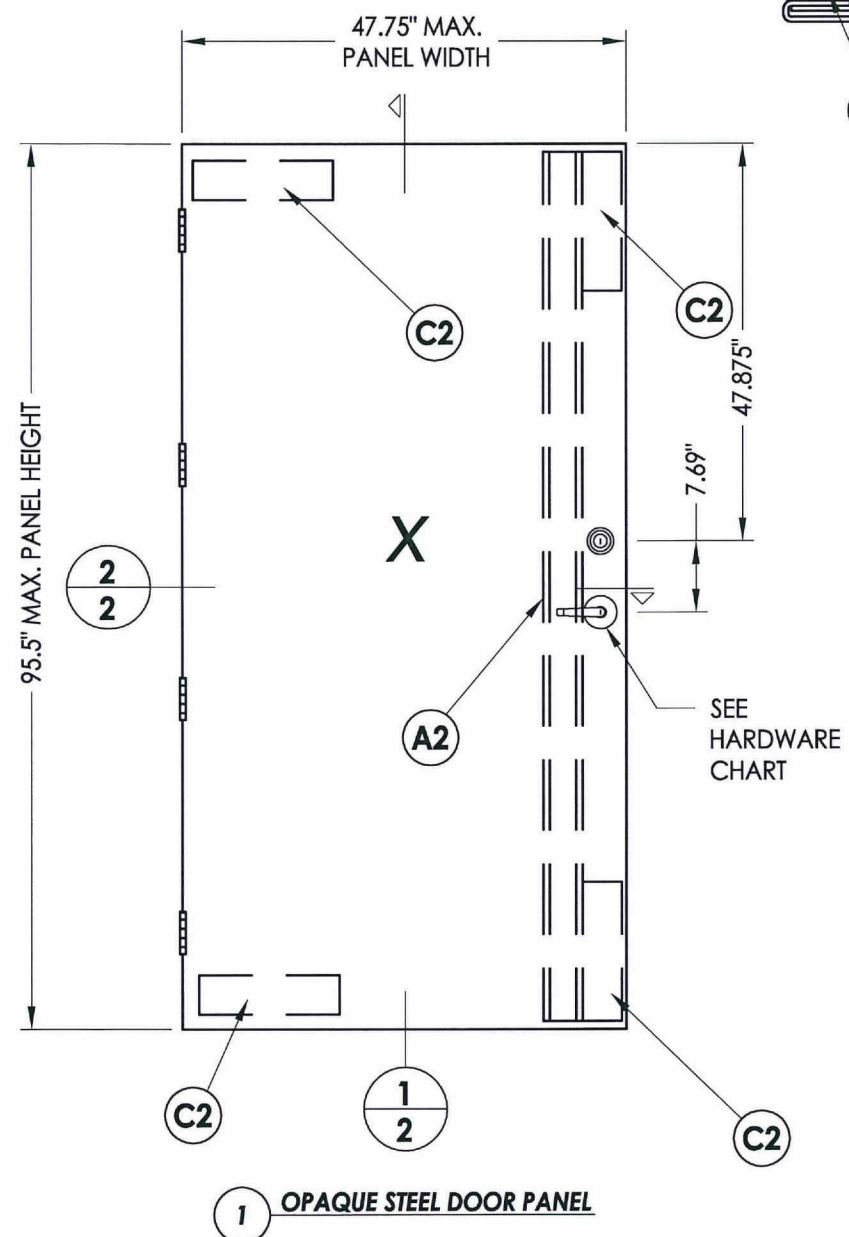
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

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

NO.	DATE	BY	REVISIONS

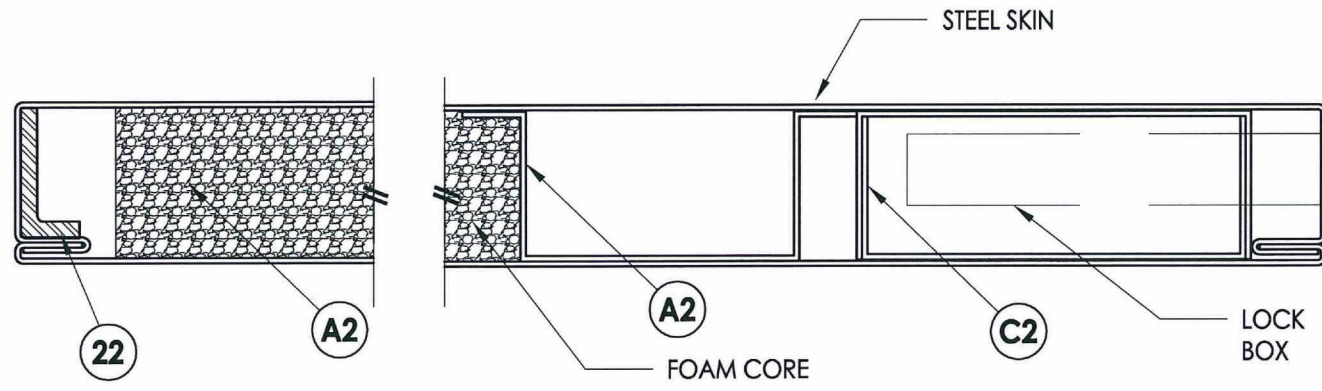
DATE: 8/31/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-18506.7
SHEET 1 OF 10

R:\Clients\HMF Express PERMANENT\FL -C - Drawings\FL XXXX (2014)\FL-18506.5-7.dwg, 2.7

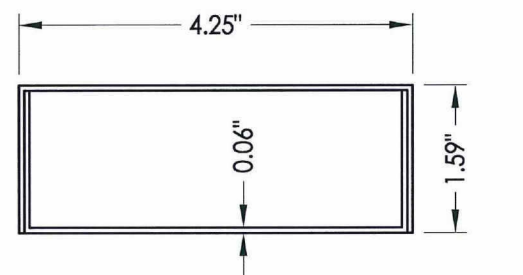


STEEL DOOR SKIN: 16 GA. A60 GALV. (min. 0.058" THK., Fy = 48,400 psi min.)
CORE MATERIAL: EPS Foam (Polystyrene - 1.0 PCF Min. Density)

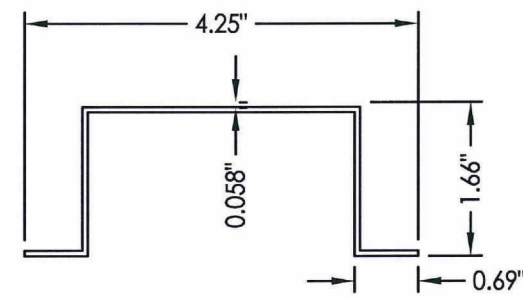
HARDWARE CHART	
MANUFACTURER	MODEL
HAGER	LEVER: 3500 SERIES
	DEADBOLT: 3200 SERIES



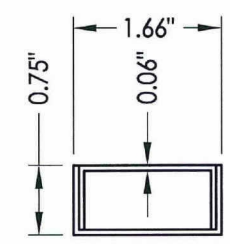
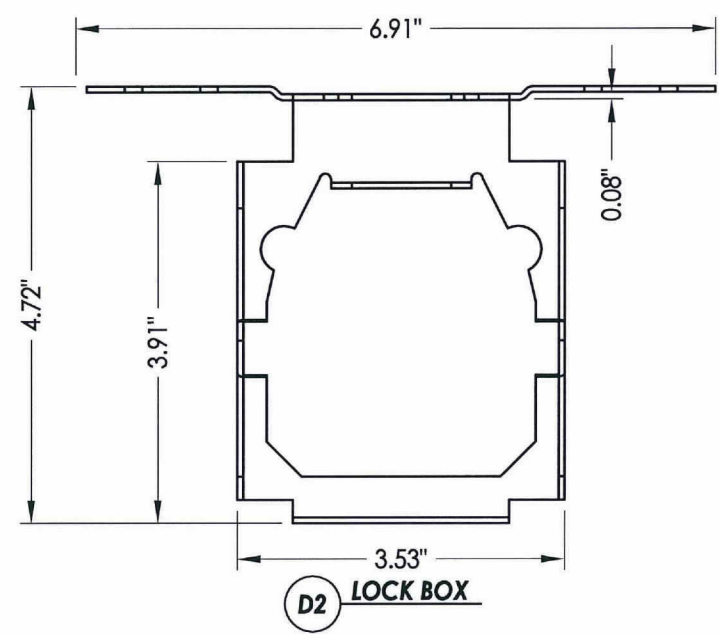
2 HORIZONTAL CROSS SECTION
2 Door panel



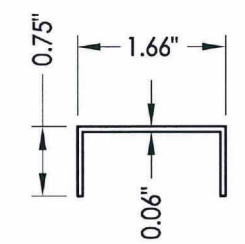
C2 BOX CHANNEL REINFORCEMENT
A60 Galv. Steel



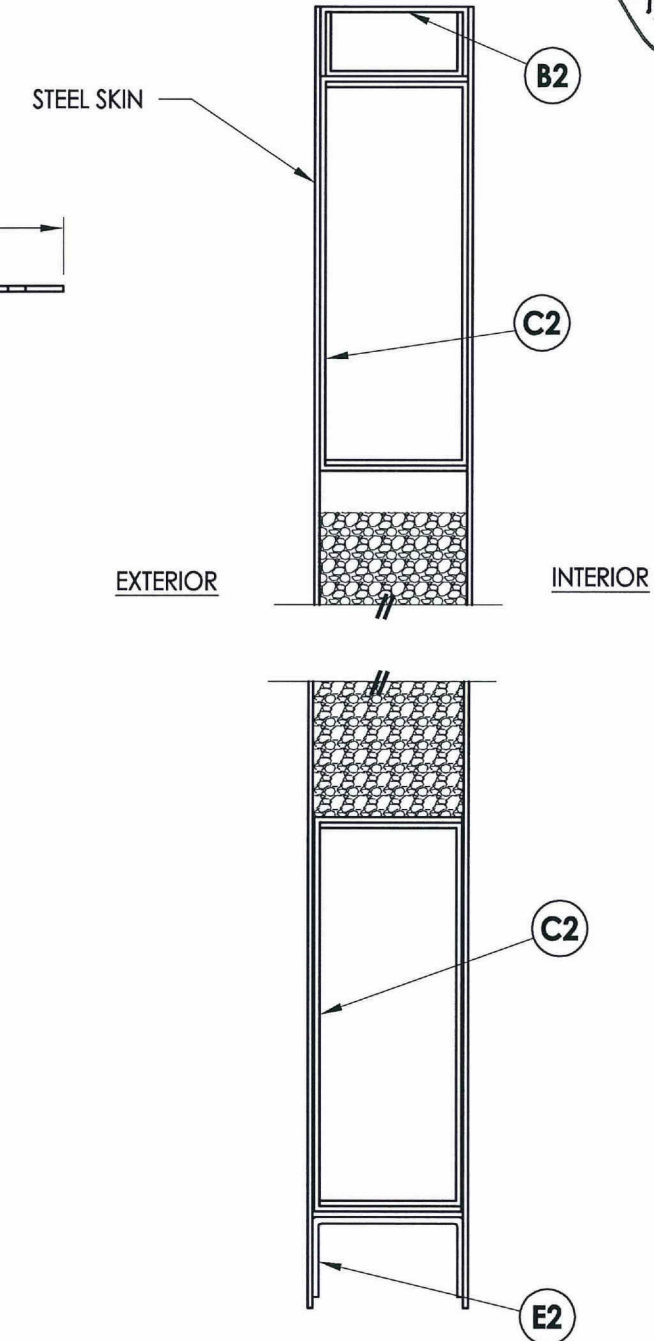
A2 RIB STIFFENER
A60 Galv. Steel



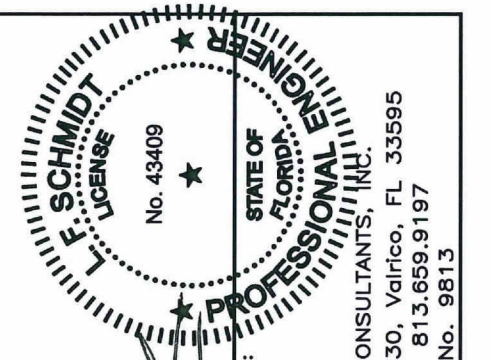
B2 TOP CHANNEL
A60 Galv. Steel



E2 BOTTOM CHANNEL
A60 Galv. Steel



1 VERTICAL CROSS SECTION
2 Door panel



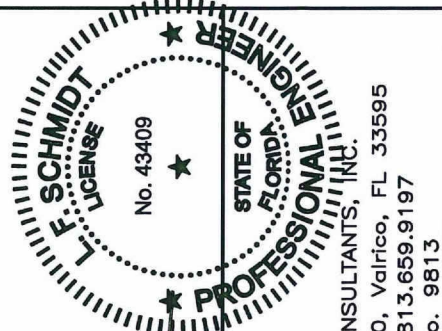
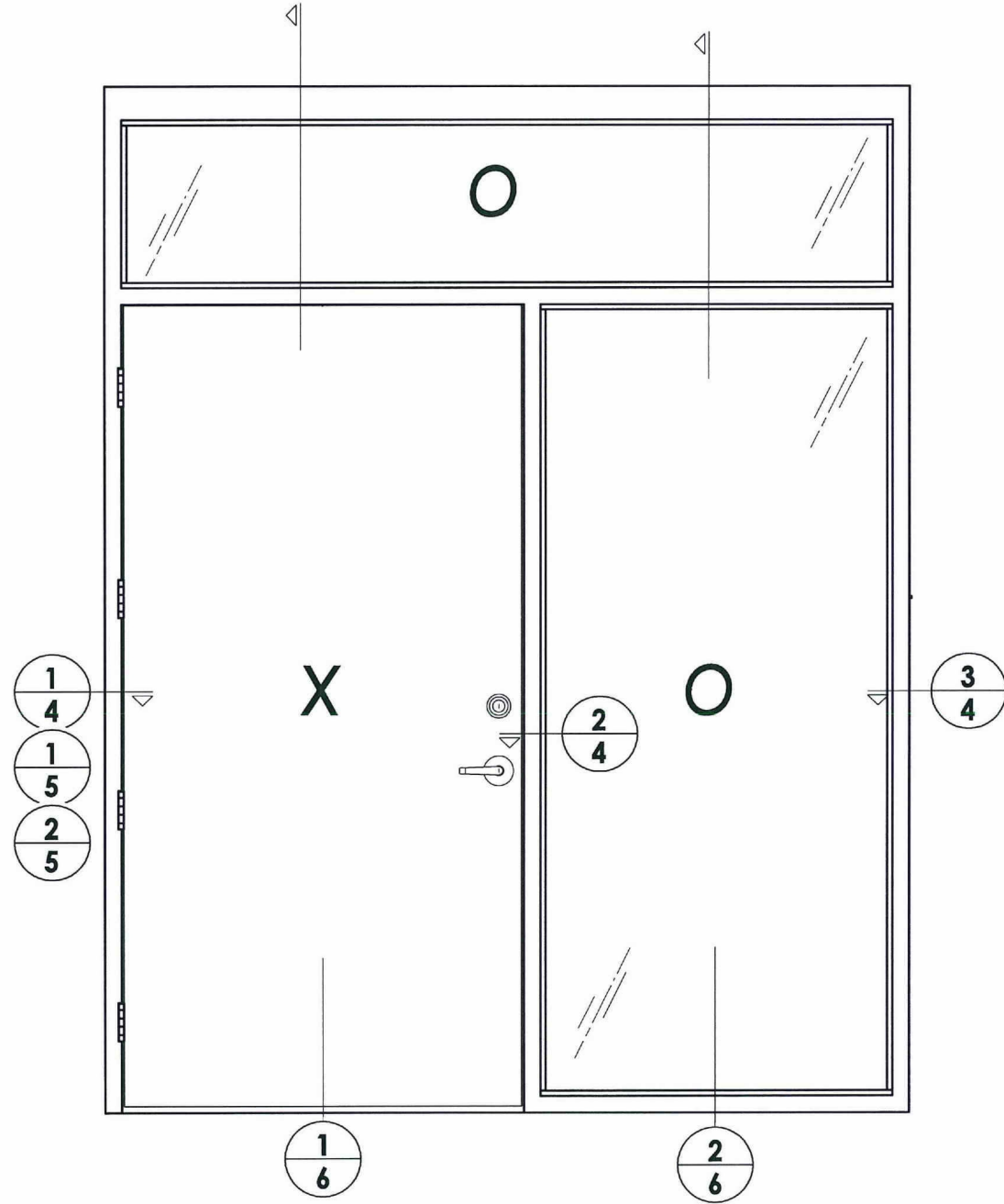
Documents Prepared By:
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P.E. No. 43409

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P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: HMF EXPRESS
PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	BY

DATE: 8/31/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-18506.7
SHEET 2 OF 10



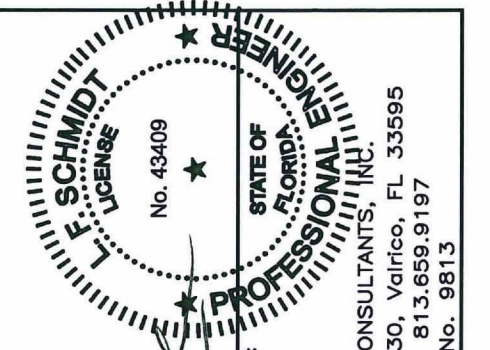
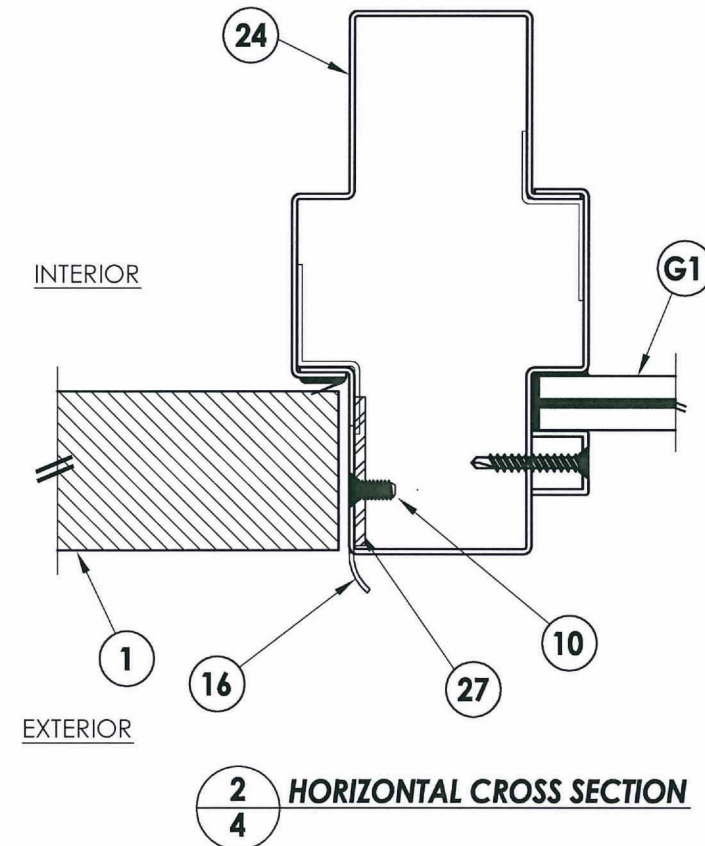
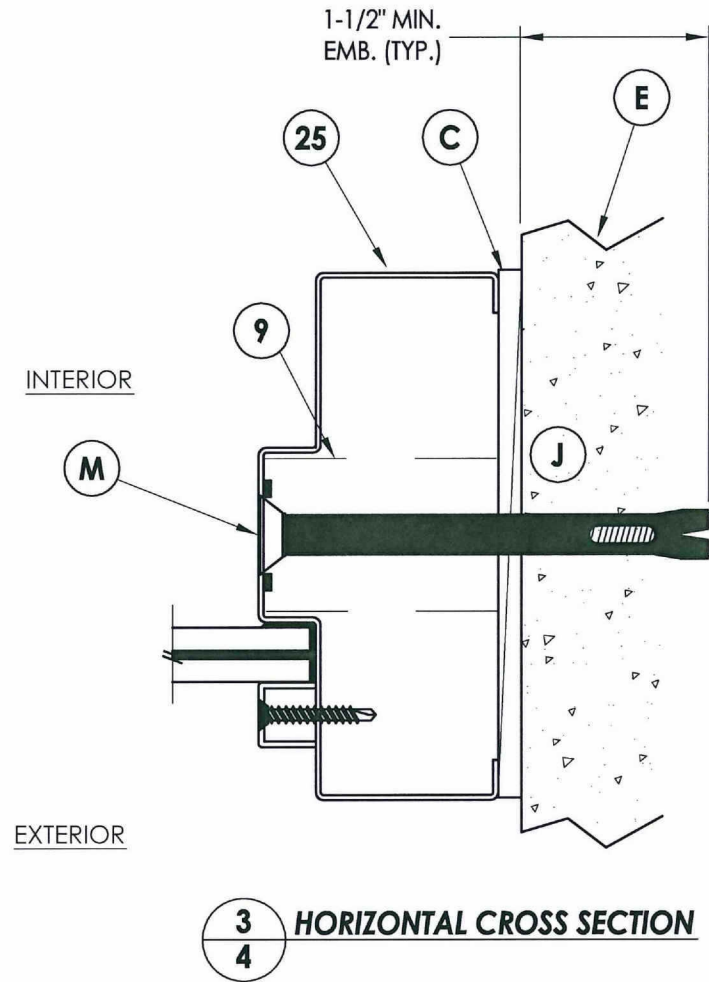
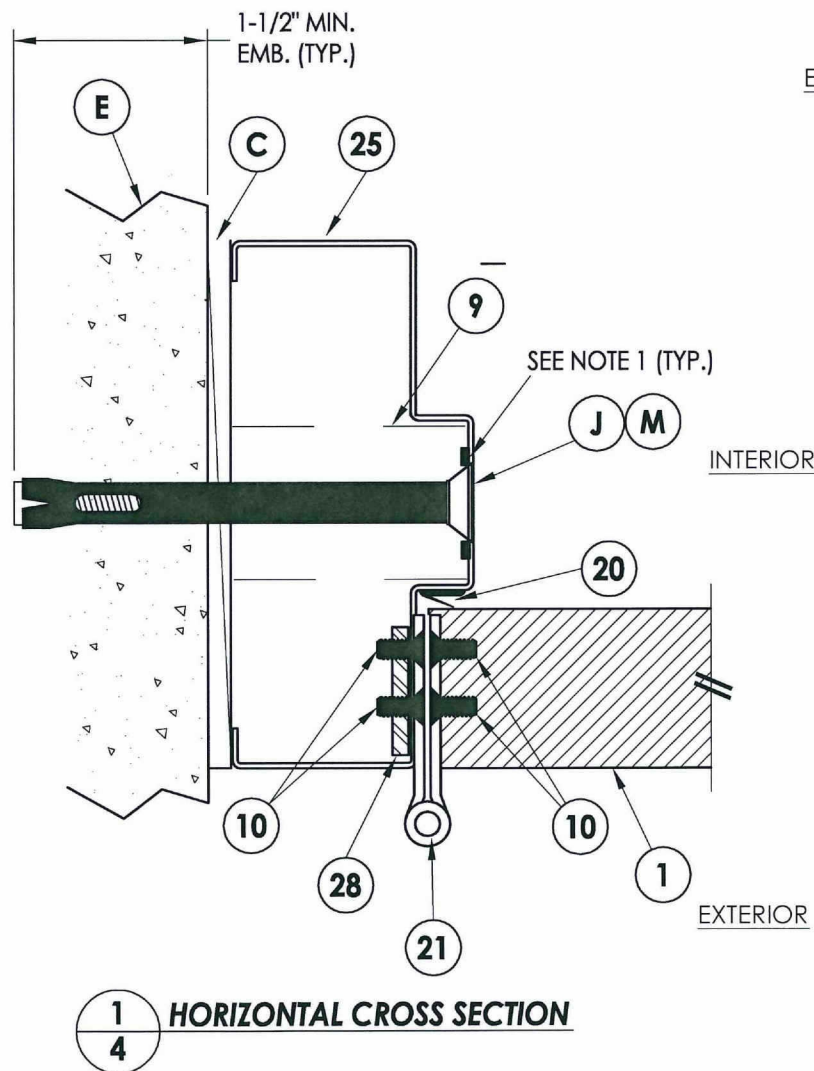
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 Lyndon F. Schmidt
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 P.O. Box 230, Valrico, FL 33595
 Phone No.: 813.659.9197
 FBPE C.A. No. 9813

PRODUCT:	HMF EXPRESS	
PART OR ASSEMBLY:	ELEVATION	
NO.	DATE	BY
REVISIONS		

DATE: 8/31/15
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-18506.7
 SHEET 3 OF 10

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



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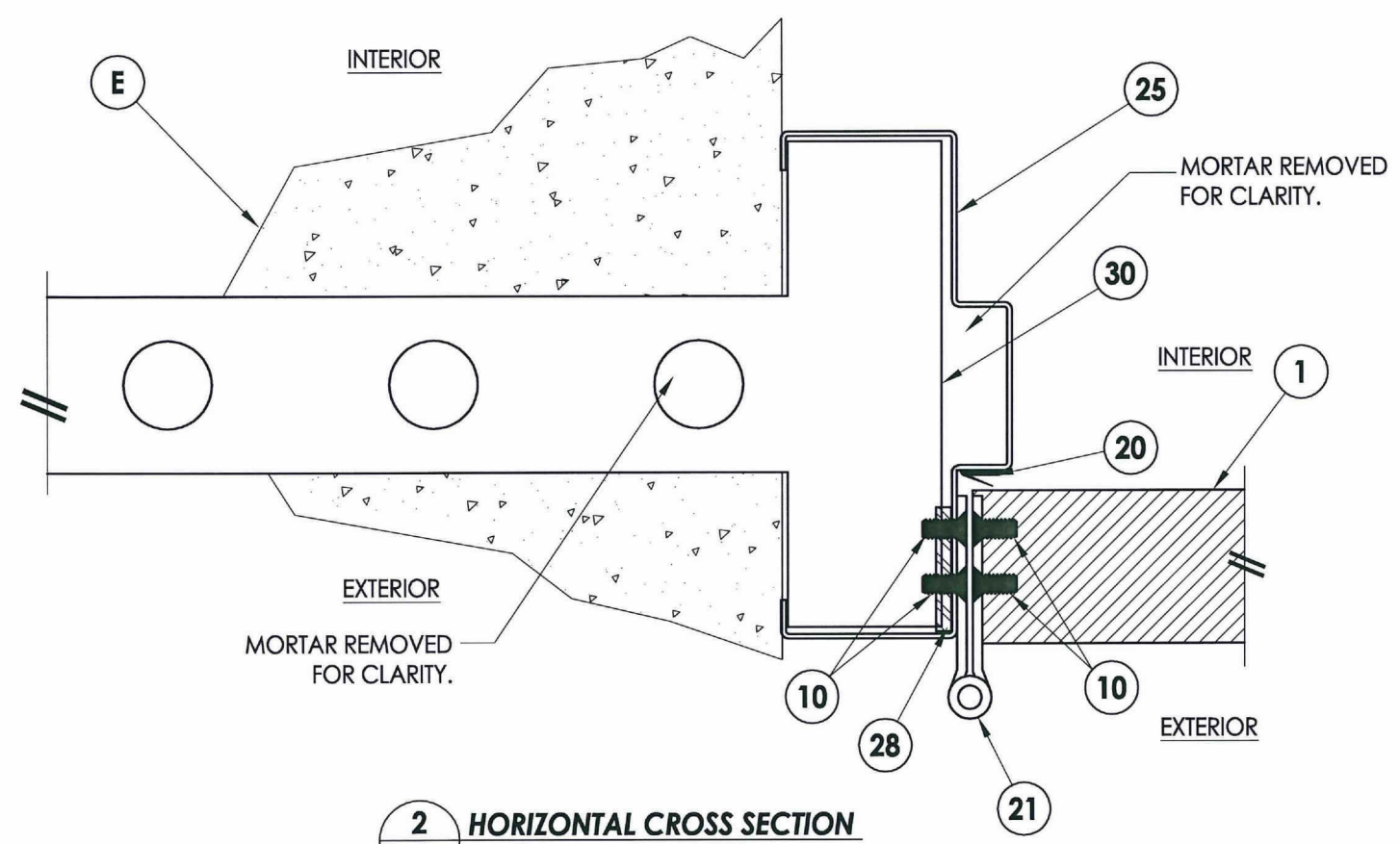
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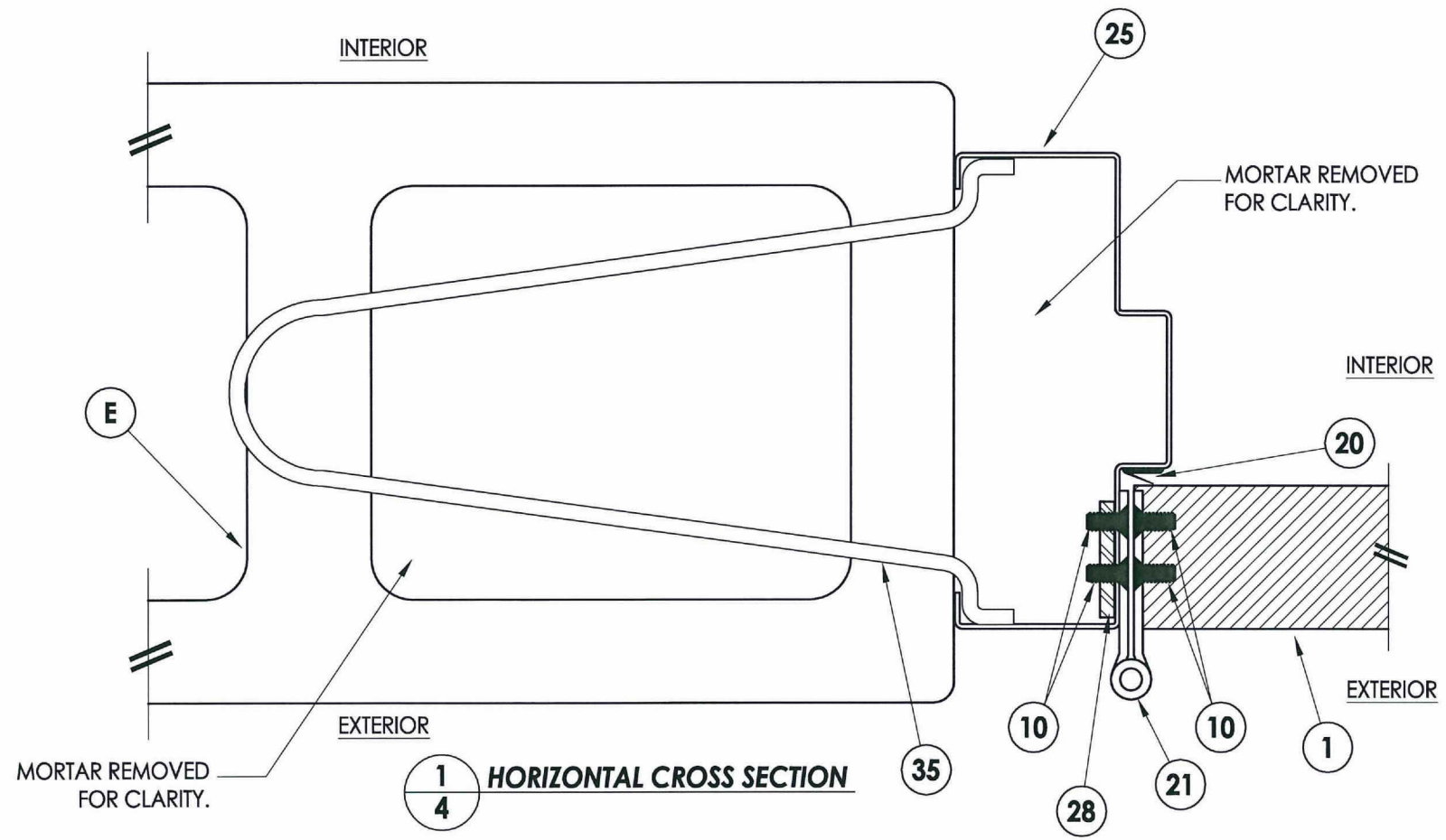
PART OR ASSEMBLY:
 HORIZONTAL & VERTICAL
 CROSS SECTIONS

REVISIONS	
NO.	DATE

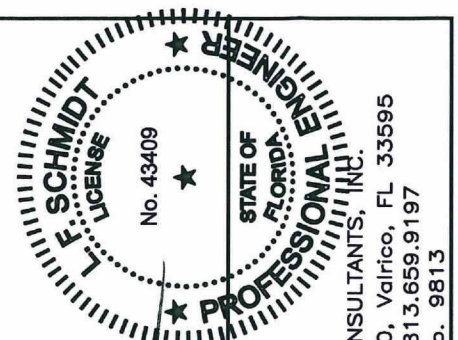
DATE: 8/31/15
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-18506.7
 SHEET 4 OF 10



2
4 **HORIZONTAL CROSS SECTION**



1
4 **HORIZONTAL CROSS SECTION**



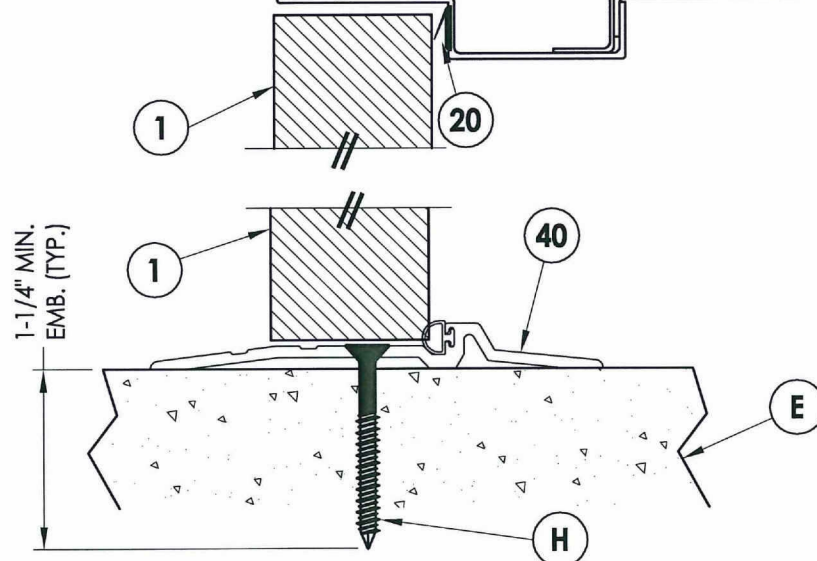
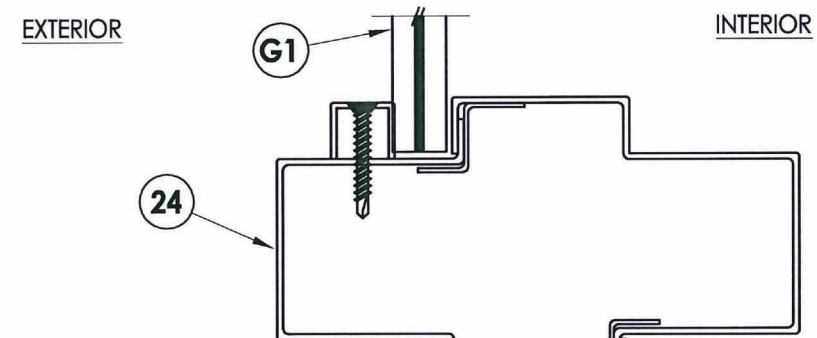
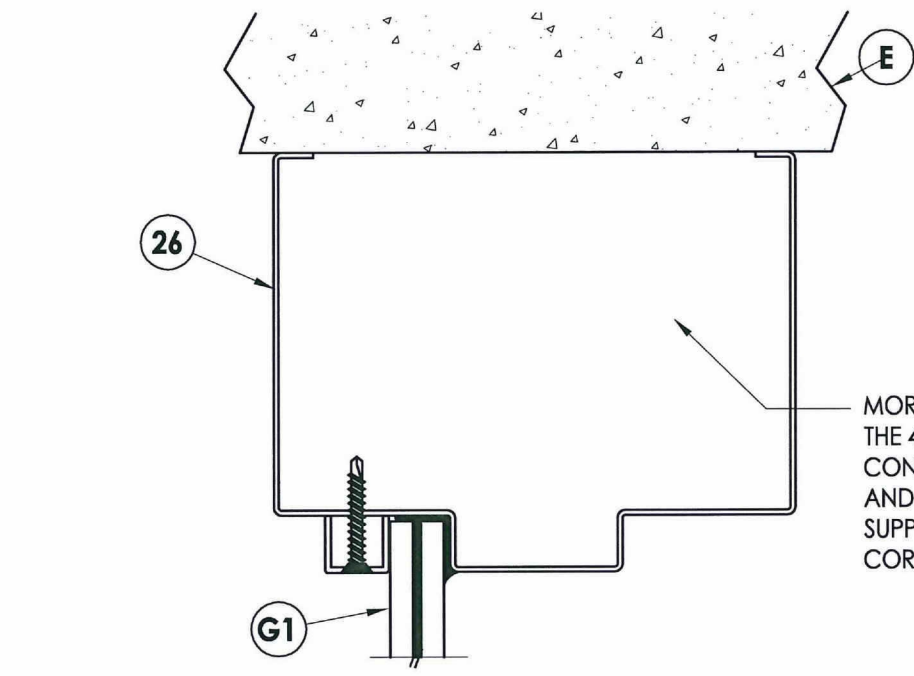
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PRODUCT:	HMF EXPRESS
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

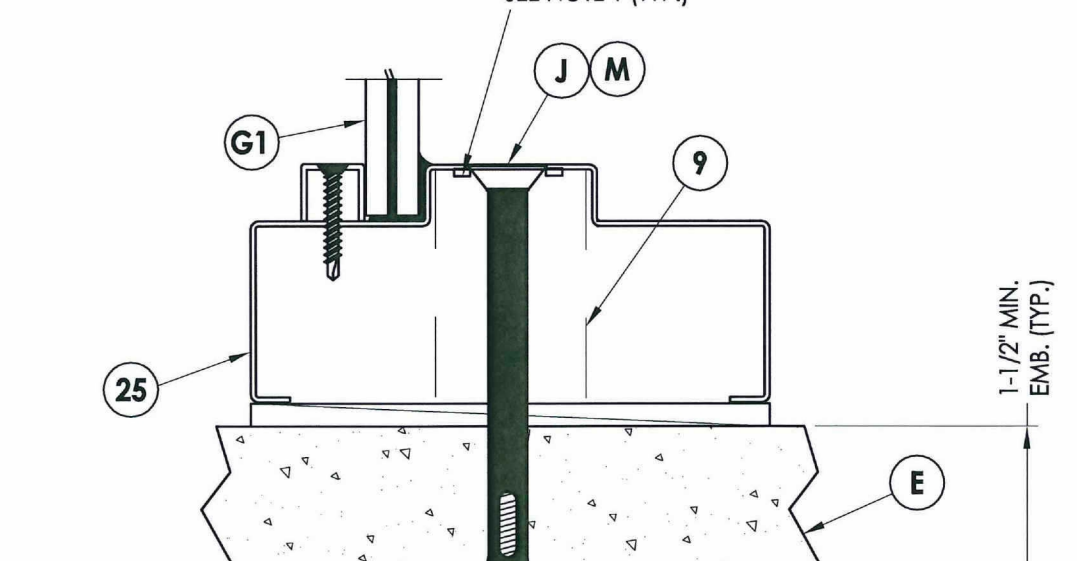
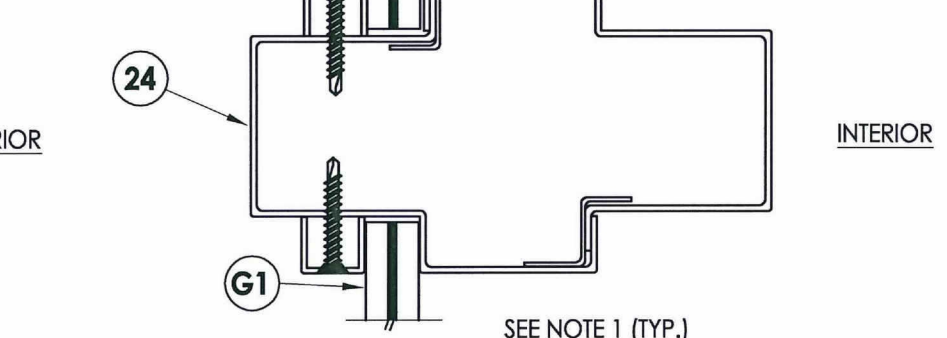
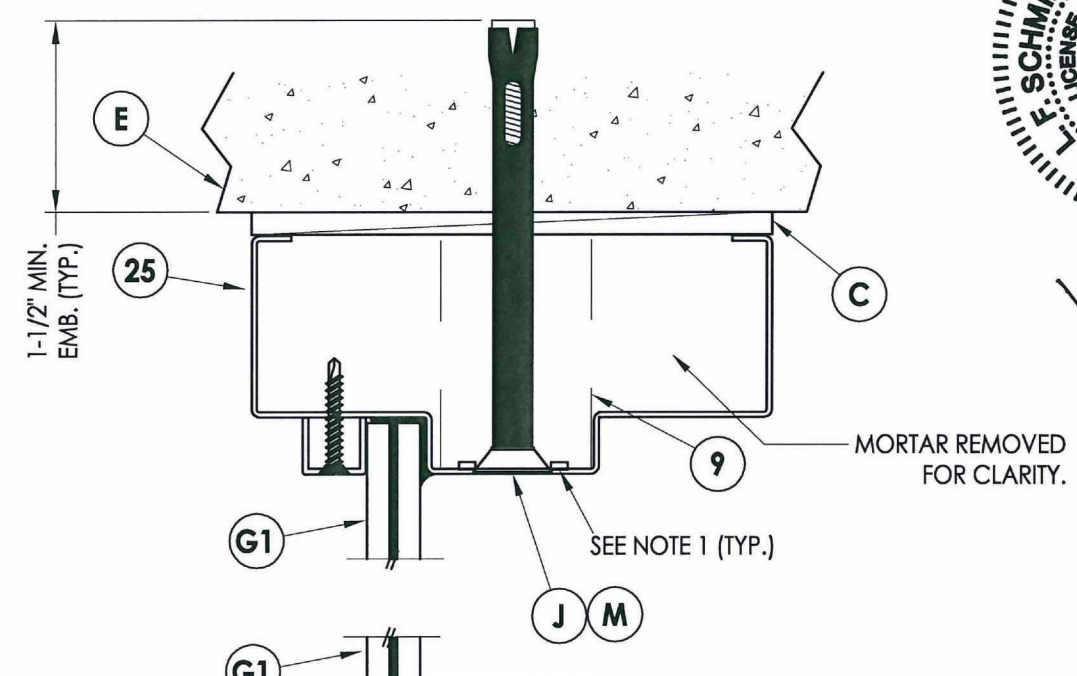
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-18506.7
SHEET	5 OF 10



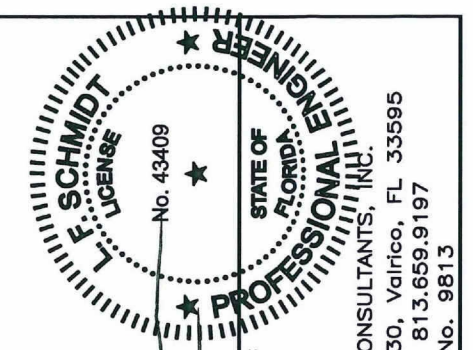
1 VERTICAL CROSS SECTION
6 Shown w/ 4" Head

MORTAR REMOVED FOR CLARITY. THE 4" HEAD REQUIRES REINFORCED CONCRETE (DESIGNED BY OTHERS) AND MUST BE TIED INTO THE SUPPORTING STRUCTURE AT THE CORNERS.

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



2 VERTICAL CROSS SECTION
6 Shown w/ 2" Head



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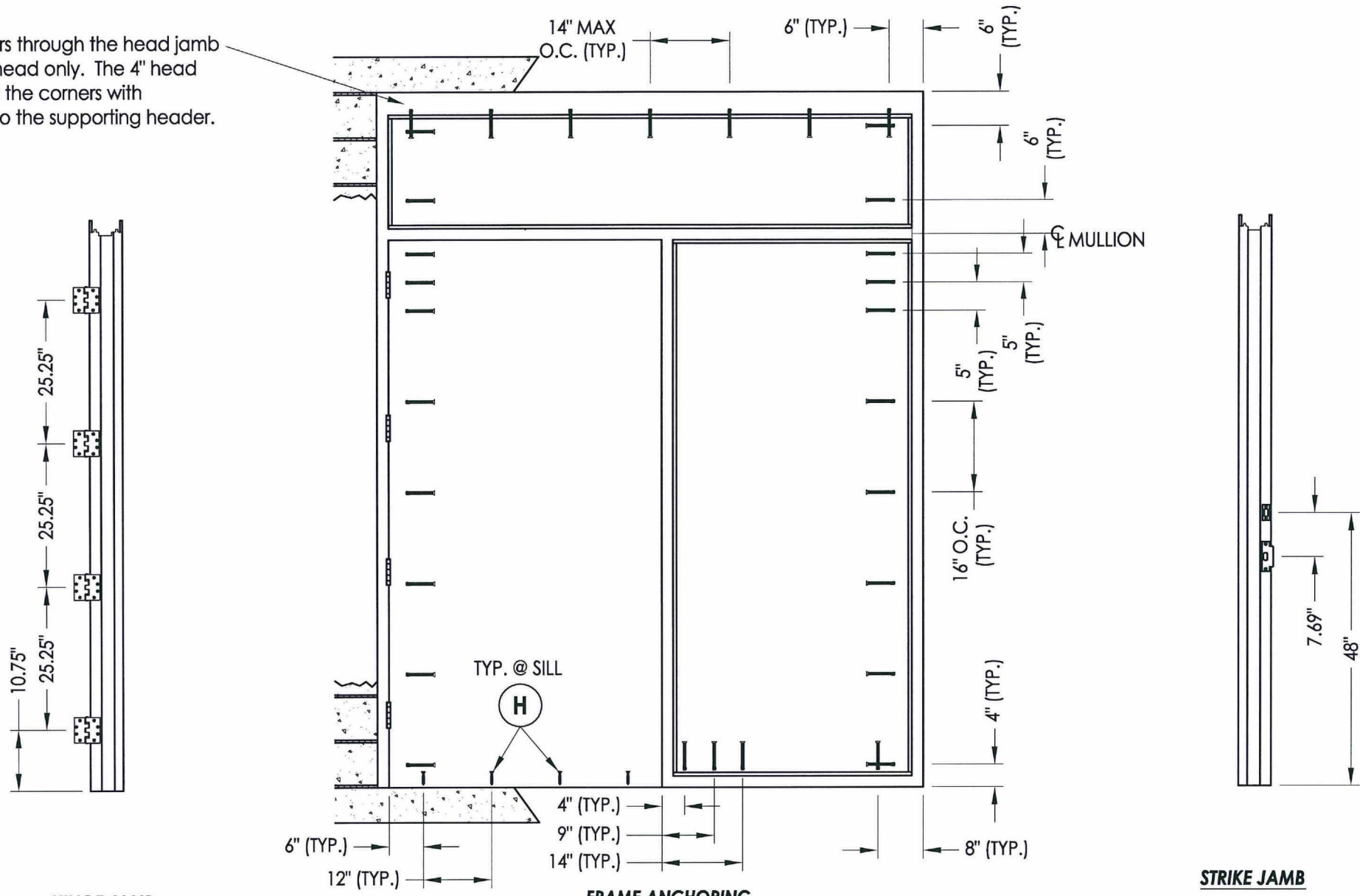
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 P.O. Box 230, Valrico, FL 33595
 Phone No.: 813.659.9197
 FBPE C.A. No. 9813

PRODUCT:	HMF EXPRESS
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 8/31/15
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-18506.7
 SHEET 6 OF 10

NOTE: Concrete anchors through the head jamb are required for the 2" head only. The 4" head must be tied into the at the corners with reinforced concrete into the supporting header.



HINGE JAMB

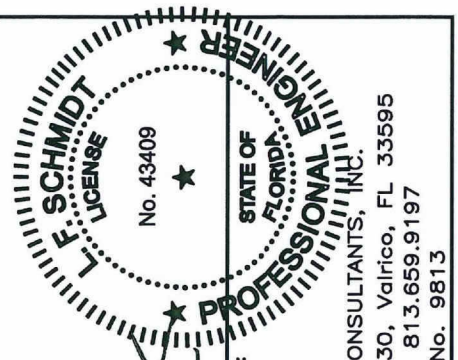
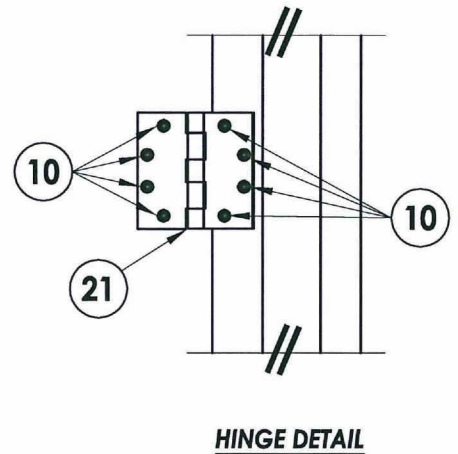
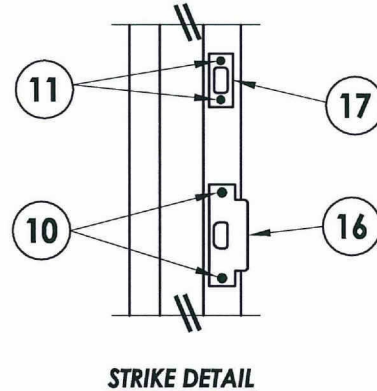
FRAME ANCHORING
Masonry Construction
Concrete Anchors

STRIKE JAMB

CONCRETE ANCHOR NOTES:

1. 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.
2. 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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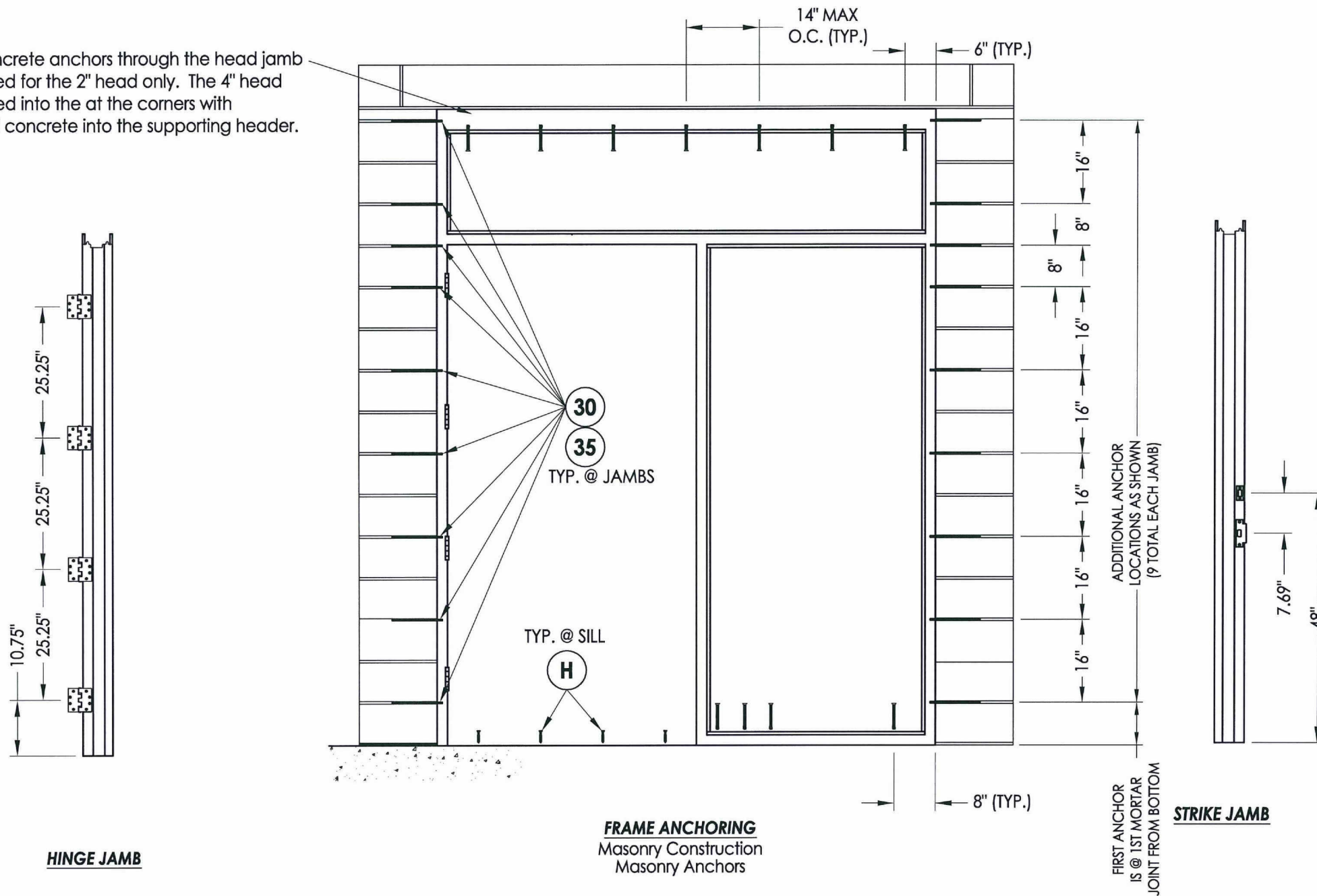
PRODUCT: HMF EXPRESS

PART OR ASSEMBLY: ANCHORING DETAILS

NO.	DATE	BY	REVISIONS

DATE: 8/31/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-18506.7
SHEET 7 OF 10

NOTE: Concrete anchors through the head jamb are required for the 2" head only. The 4" head must be tied into the at the corners with reinforced concrete into the supporting header.



HINGE JAMB

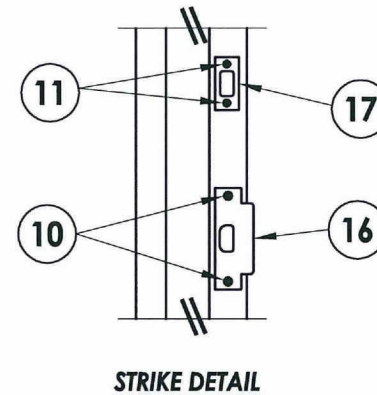
FRAME ANCHORING
Masonry Construction
Masonry Anchors

STRIKE JAMB

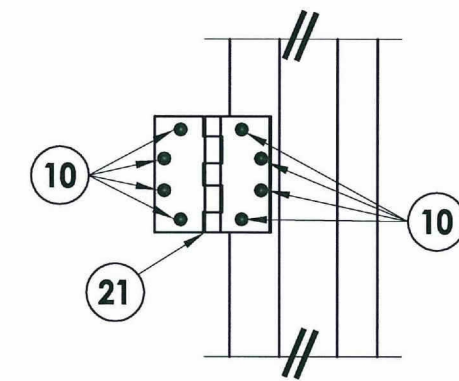
CONCRETE ANCHOR NOTES:

- 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:

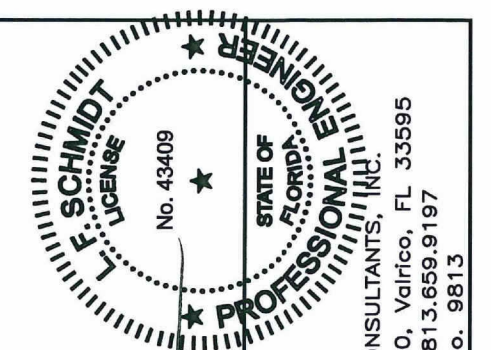
ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON® (ELCO) CRETE-FLEX® (ELCO) TAPPER+® (POWERS)	2-1/2"	1-1/4"
	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)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



STRIKE DETAIL

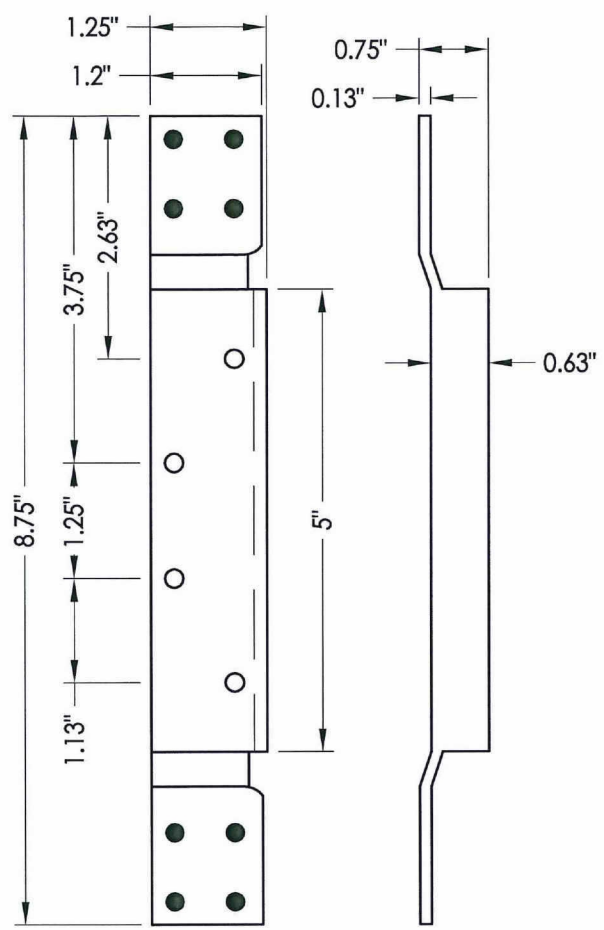


HINGE DETAIL

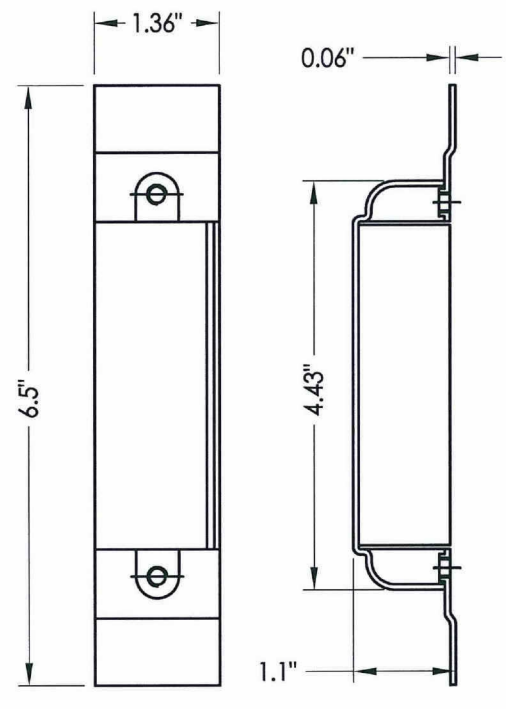


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RW
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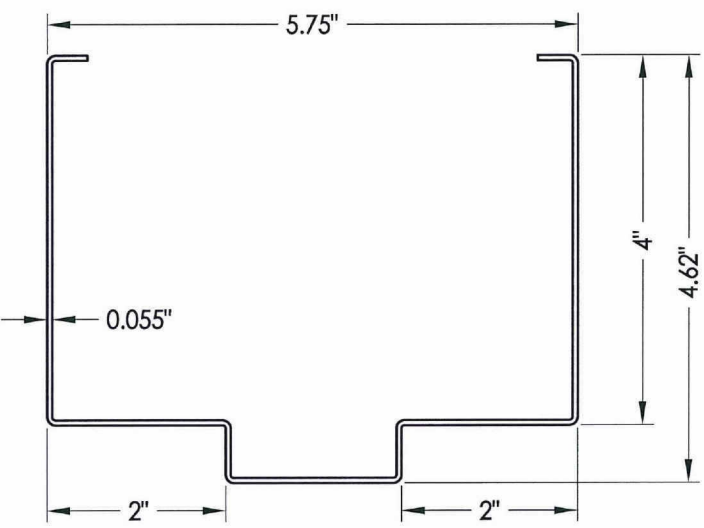
PRODUCT:	HMF EXPRESS	
PART OR ASSEMBLY:	ANCHORING DETAILS	
NO.	DATE	BY
REVISIONS		
DATE:	8/31/15	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-18506.7	
SHEET	8	OF 10



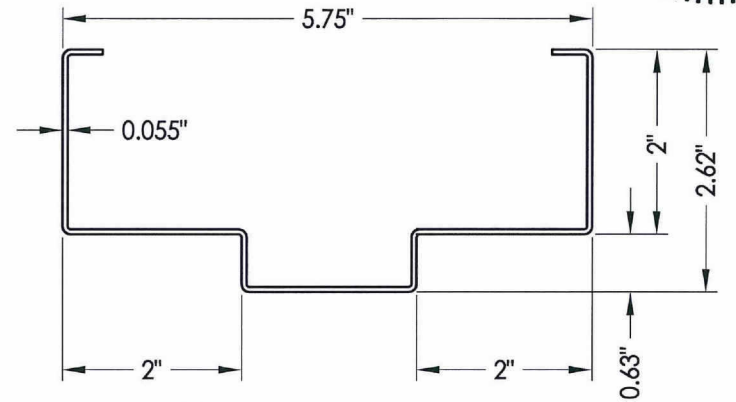
22 DOOR HINGE REINFORCEMENT



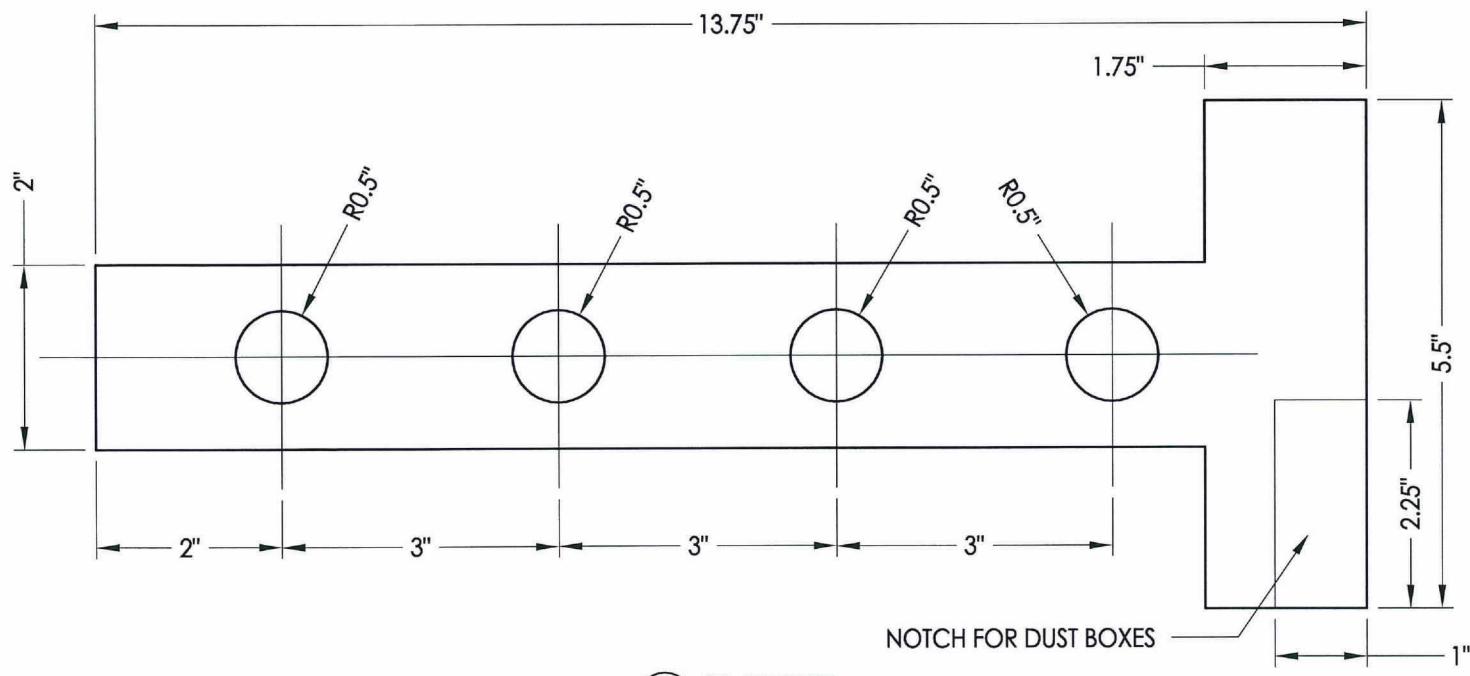
8 DUST BOX



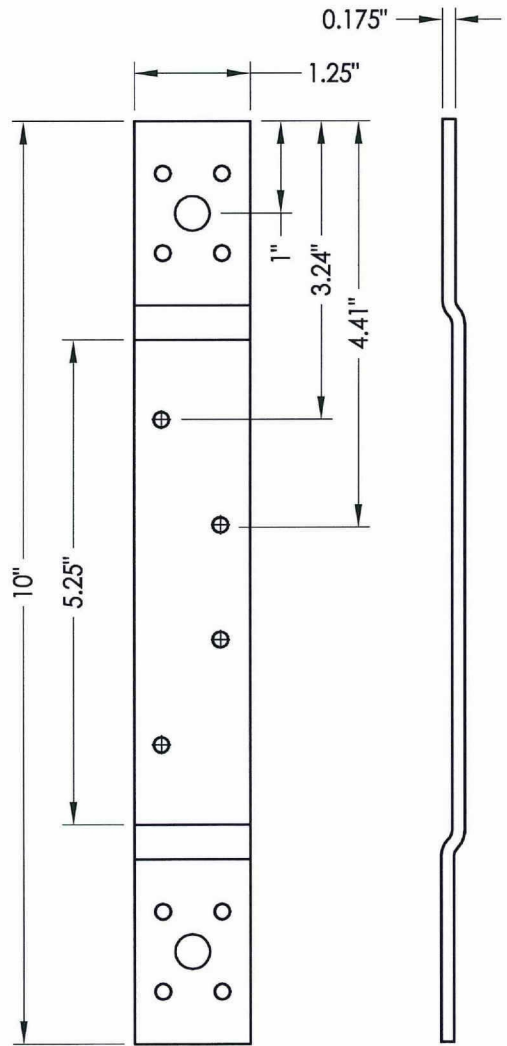
26 HOLLOW METAL FRAME 4" (Head)



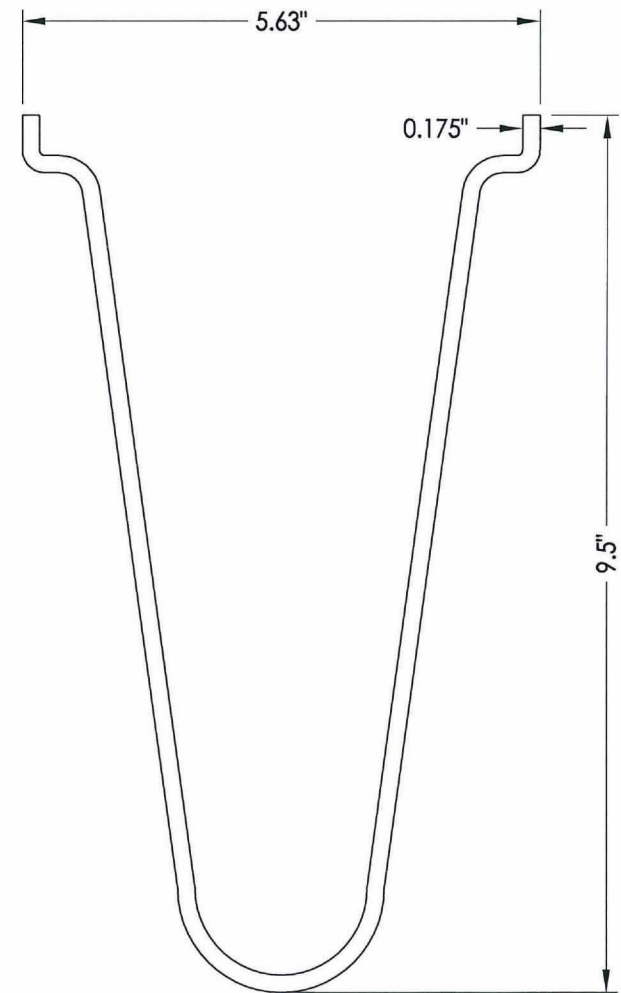
25 HOLLOW METAL FRAME 2" (Jamb)



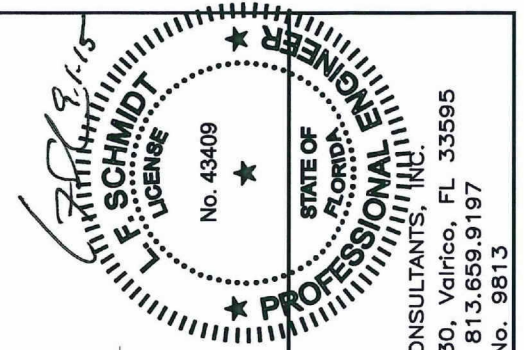
30 T ANCHOR 0.056" Thick Steel



28 FRAME HINGE REINFORCEMENT



35 WIRE ANCHOR



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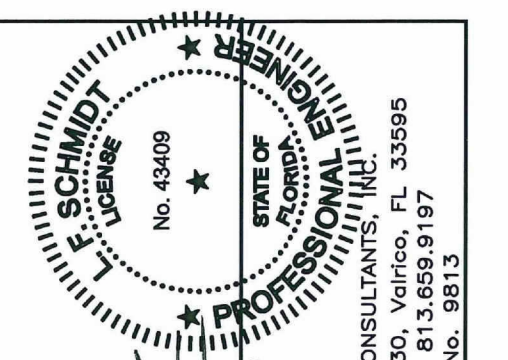
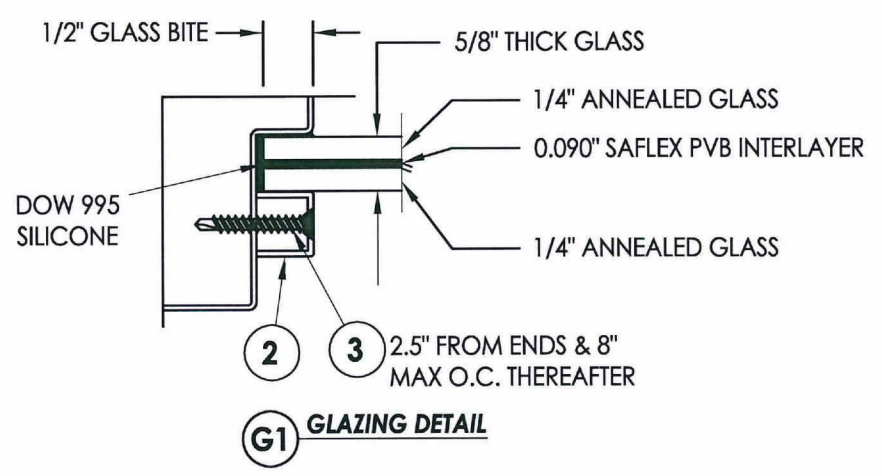
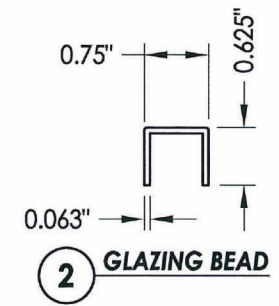
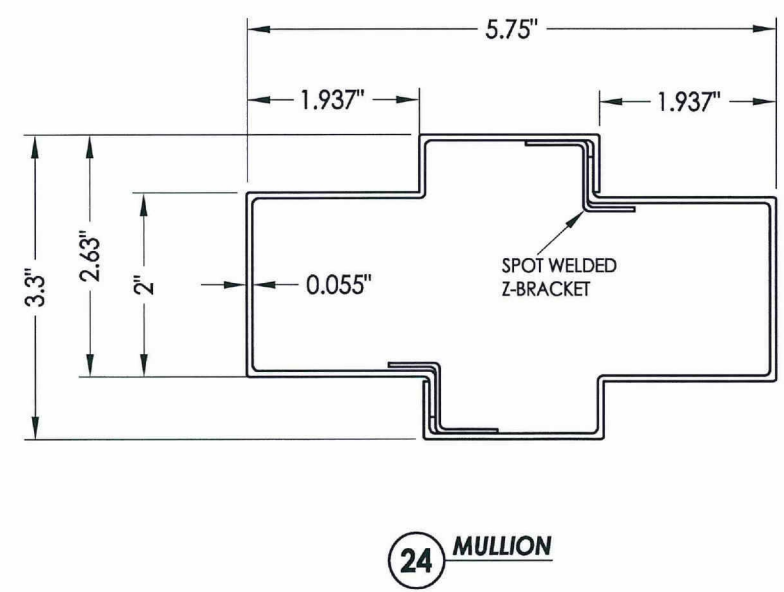
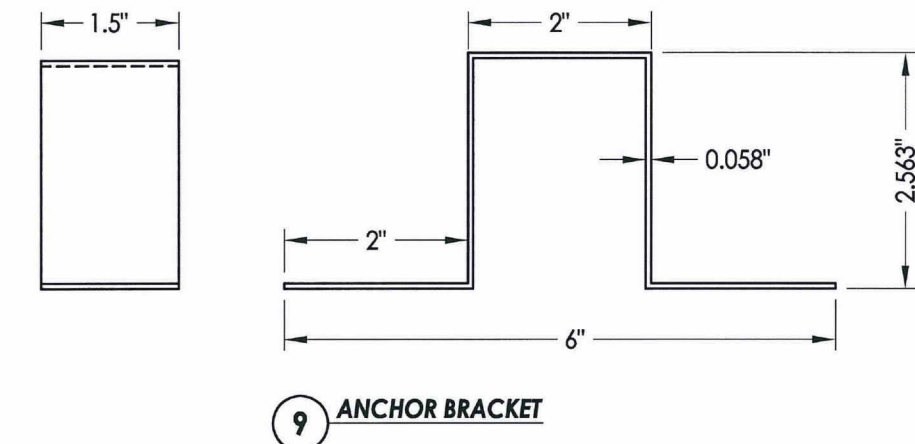
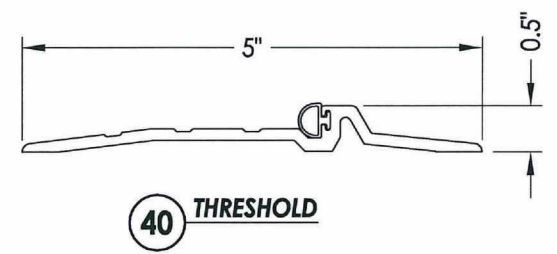
PRODUCT:	HMF EXPRESS
PART OR ASSEMBLY:	COMPONENTS

NO.	DATE	BY

DATE:	8/31/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-18506.7
SHEET	9 OF 10

R:\Clients\HMF Express PERMANENT\FL -C - Drawings\FL XXXX (2014)\FL-18506.5-7.dwg, 10.7

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	-
3	#6 X 1-1/4" PFH SELF-DRILLING TEK SCREW	STEEL
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
24	MULLION - 16GA (0.055" THK)	STEEL
25	HOLLOW FRAME (2" JAMB) - 16GA (0.055" THK)	STEEL
26	HOLLOW FRAME (4" OR 2" HEAD) - 16GA (0.055" THK)	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
30	MASONRY 'T' ANCHOR	STEEL
35	WIRE ANCHOR	STEEL
40	THRESHOLD (HAGER #520S)	ALUMINUM



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P.E. No. 43409

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

PRODUCT:	HMF EXPRESS	
PART OR ASSEMBLY:	BILL OF MATERIALS, COMPONENTS & GLAZING DETAIL	
NO.	DATE	BY
REVISIONS		
DATE:	8/31/15	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-18506.7	
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