

Z:\2023 FBC Drawings\Metal Mfg Industries\FL-12186 R4\12186.1-8.dwg



PRIV. DE RIO SANTIAGO #30
COL. LA RAZA
SOLEDAD DE GRACIANO SANCHEZ
SAN LUIS POTOSI, C.P. 78433

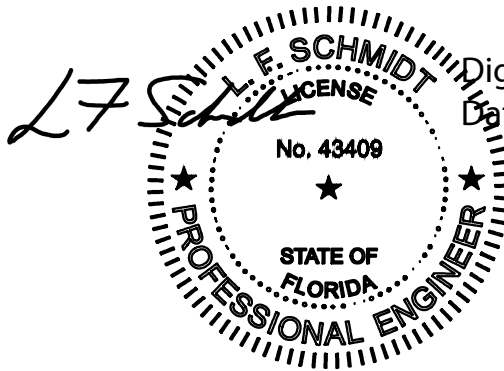
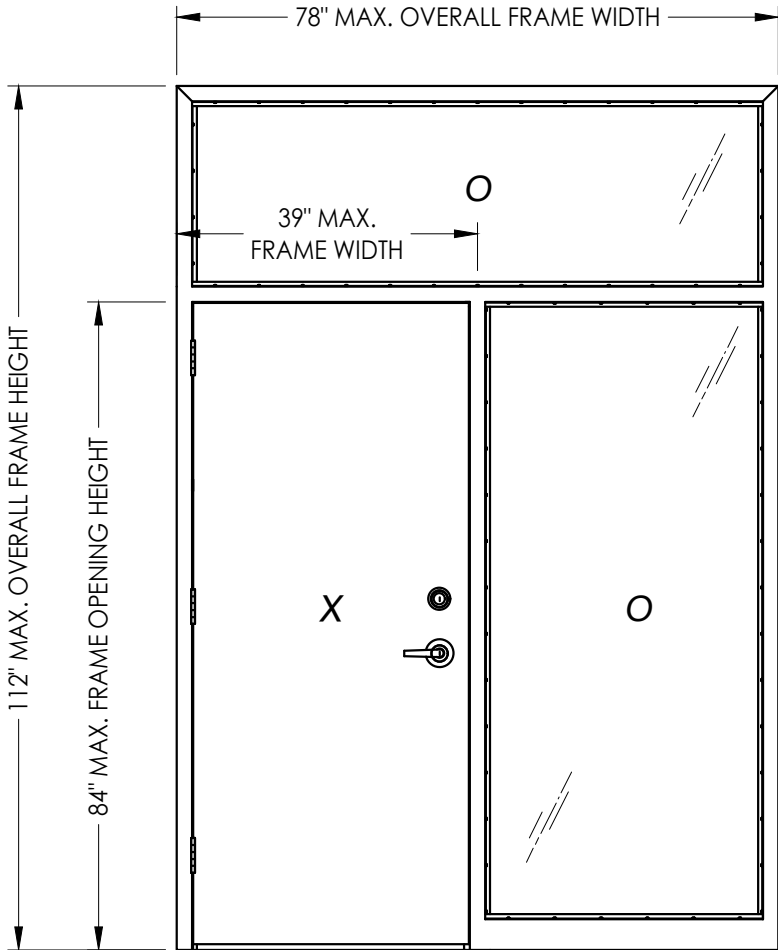
"N" SERIES COMMERCIAL STEEL DOOR w/ SIDELITE & TRANSOM INSWING / OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) 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 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.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. The "N" door achieves a Class III 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	Components
10	Bill of materials & components

OVERALL FRAME DIMENSION	SIDELITE D.L.O. DIMENSION	TRANSOM D.L.O. DIMENSION	LOCK TYPE	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
78" x 112"	34.75" x 78.75"	72.75" x 22.75"	161 LATCH (SCHLAGE)	G1, G2	+55.0	-55.0
			161 LATCH & DEADBOLT (DESIGN HARDWARE)		+65.0	-65.0



Digitally signed by Lyndon F Schmidt
Date: 2023.07.11 09:25:16 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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

MMI
"N" STEEL DOOR

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

REVISIONS

NO.	DATE	DESCRIPTION
4	7/11/23	UPDATE TO 8TH ED. (2023) FBC
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
2	7/18/17	UPDATE TO 6TH ED. (2017) FBC
1	10/14/16	UPDATE TO 5TH ED. (2014) FBC

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

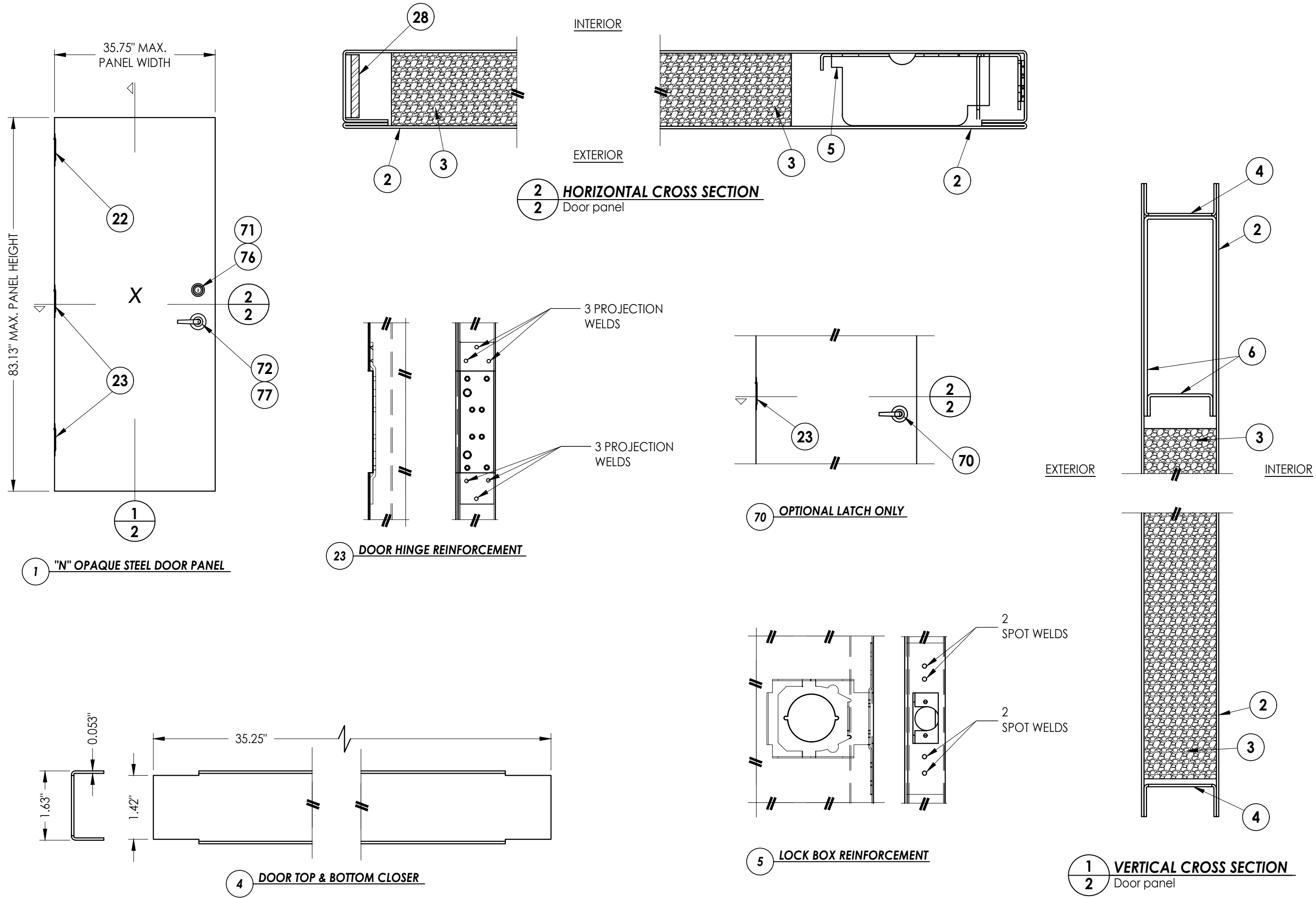
DRAWING NO.: FL-12186.7

SHEET 1 OF 10

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FBPE Registry No. 9813

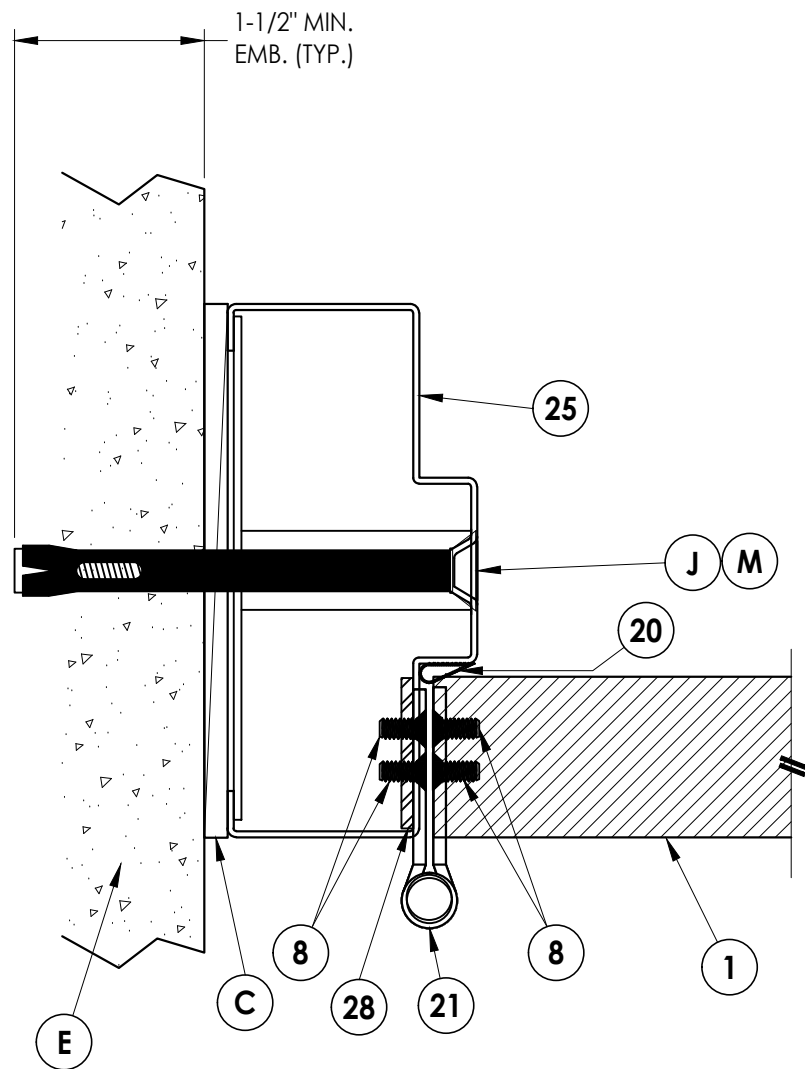
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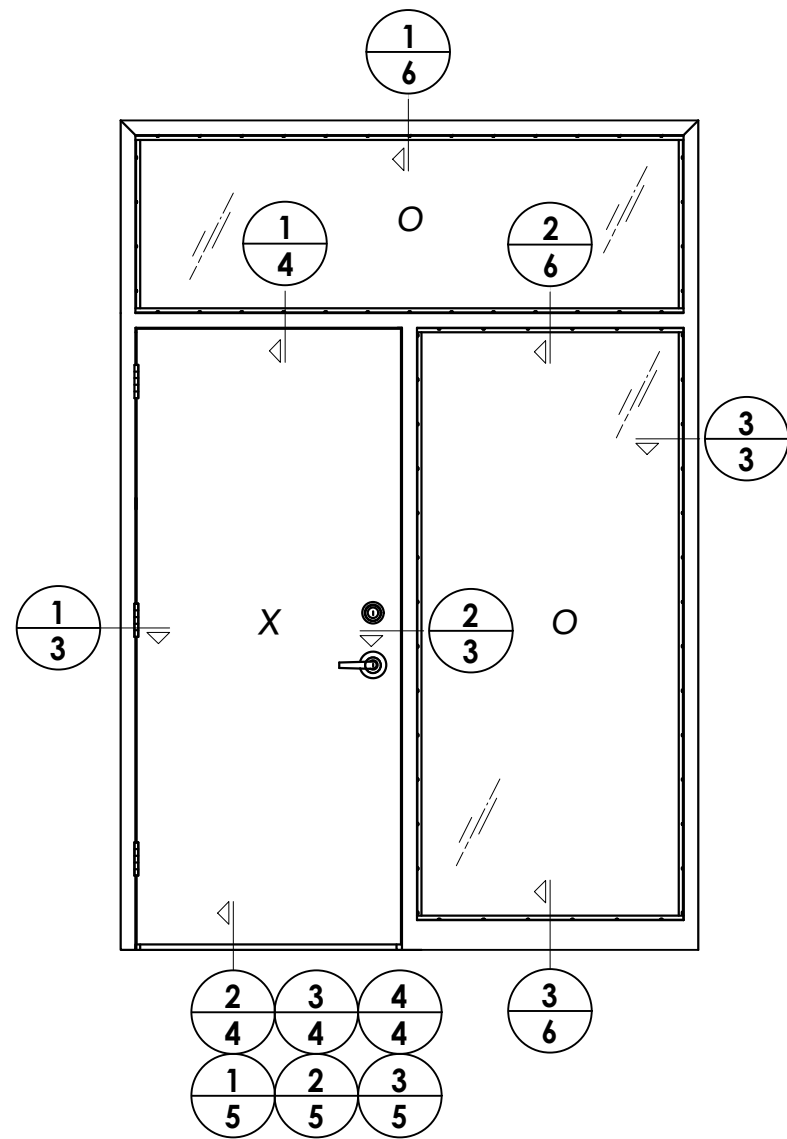
NOTE: ALL WELDING TO CONFORM w/ AMERICAN WELDING SOCIETY, ANSI/AWS AS PER FBC SECTION 2214.3.4.

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PRODUCT: MMI "N" STEEL DOOR		PART OR ASSEMBLY: DOOR PANEL SECTIONS 161 LOCK PREP	
		LFS	FBC
		DAC	FBC
		LFS	FBC
		JK	FBC
		BY	
REVISIONS			
NO.	DATE		
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC
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1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC
DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.7			
SHEET 2 OF 10			

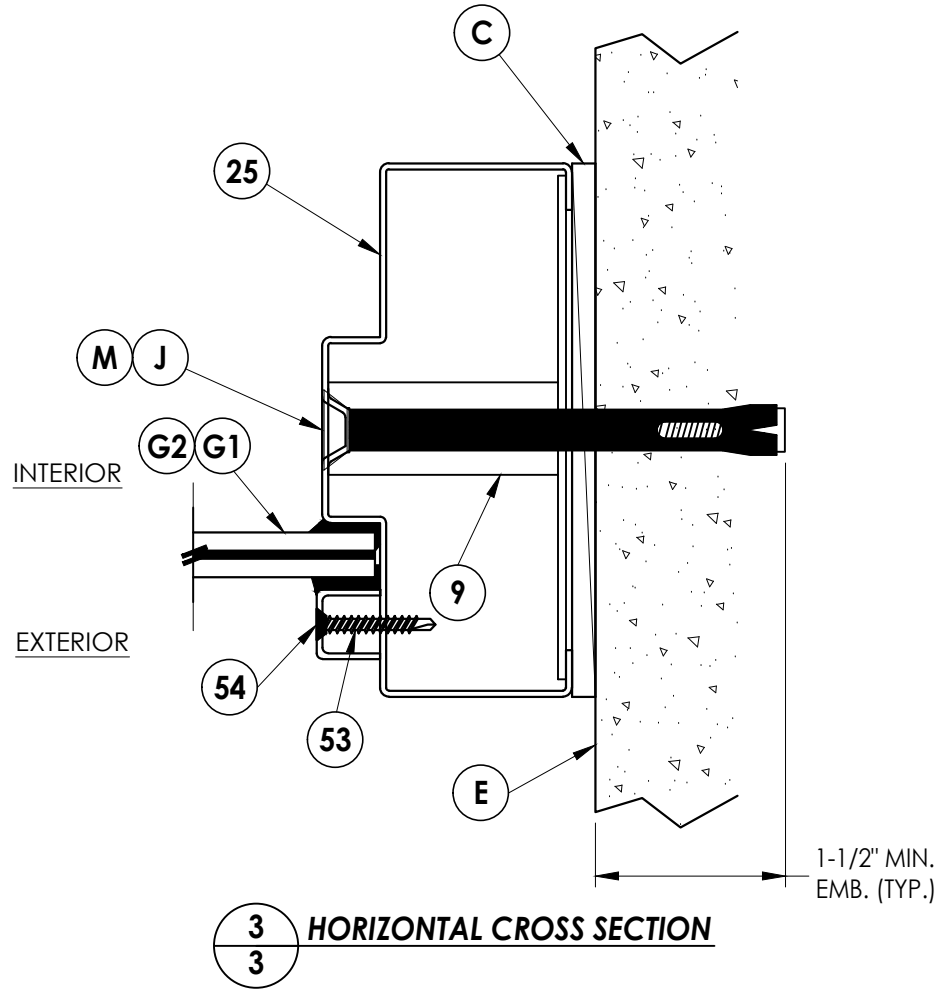
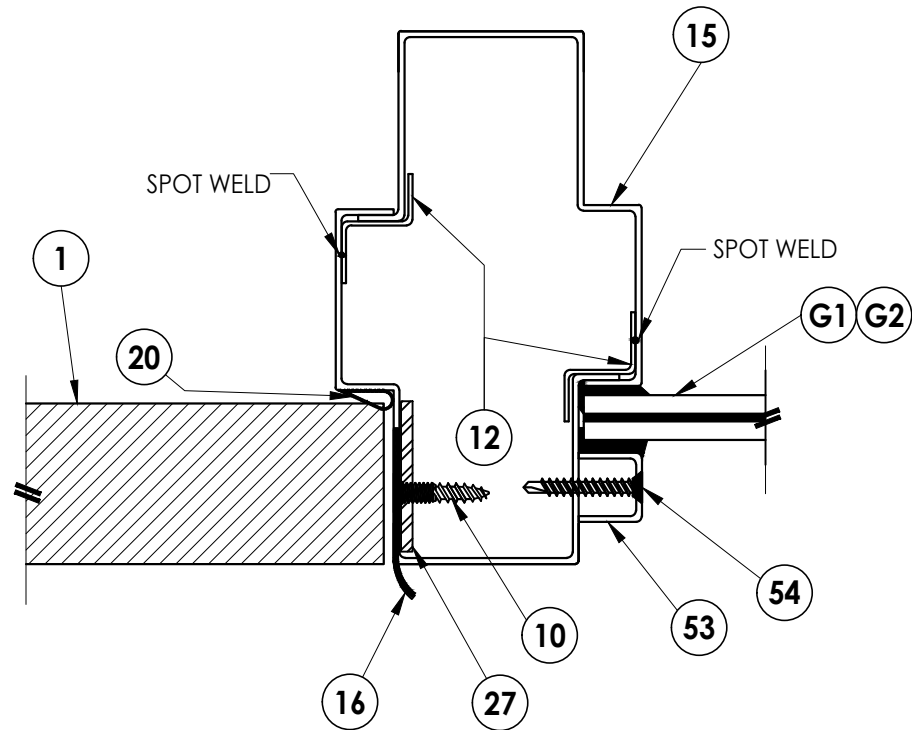
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1
3 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved



2
3 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved



3
3 **HORIZONTAL CROSS SECTION**

PRODUCT:		MMI		"N" STEEL DOOR	
PART OR ASSEMBLY:		HORIZONTAL		CROSS SECTIONS	
NO.	DATE	REVISIONS	BY		
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.: FL-12186.7

SHEET 3 OF 10

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Lyndon F. Schmidt
P.E. No. 43409

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1 **VERTICAL CROSS SECTION**
4 Inswing configuration

3 VERTICAL CROSS SECTION

4 Inswing configuration

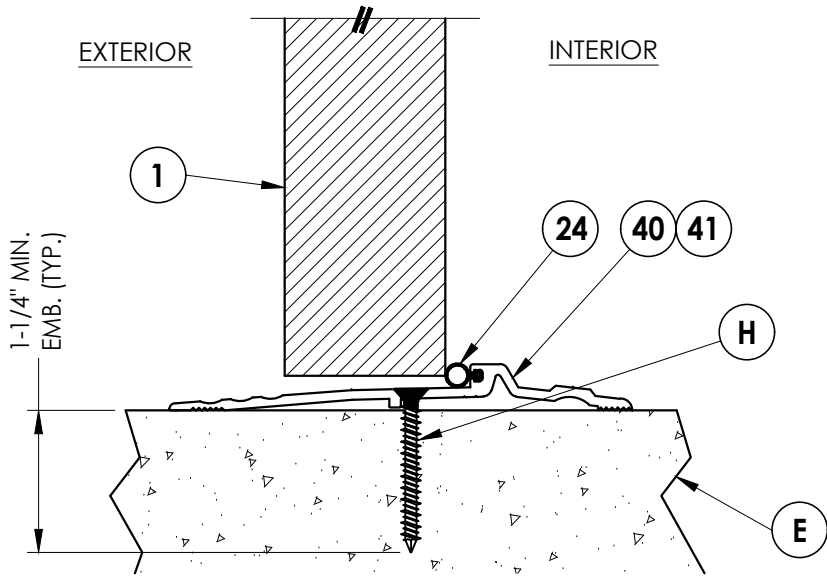
2 VERTICAL CROSS SECTION

4 Inswing configuration

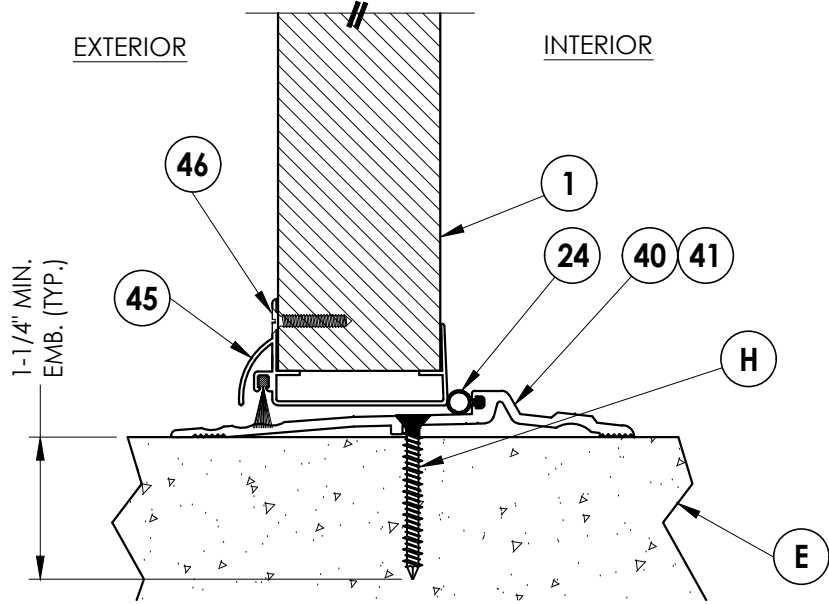
4 **VERTICAL CROSS SECTION**
4 Inswing configuration

DATE: 11/3/08		DRAWING NO.: FL-12186.7		SHEET 4 OF 10	
SCALE: N.T.S.		CHK. BY: LFS		DWG. BY: AL	
NO.		DATE		REVISIONS	
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/30/20	UPDATE TO 7th ED. (2020)	FBC	DAC	
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK	
				BY	
PRODUCT:		MMI			
		"N" OPAQUE STEEL DOOR			
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS			
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Lyndon F. Schmidt					
P.E. No. 43409					

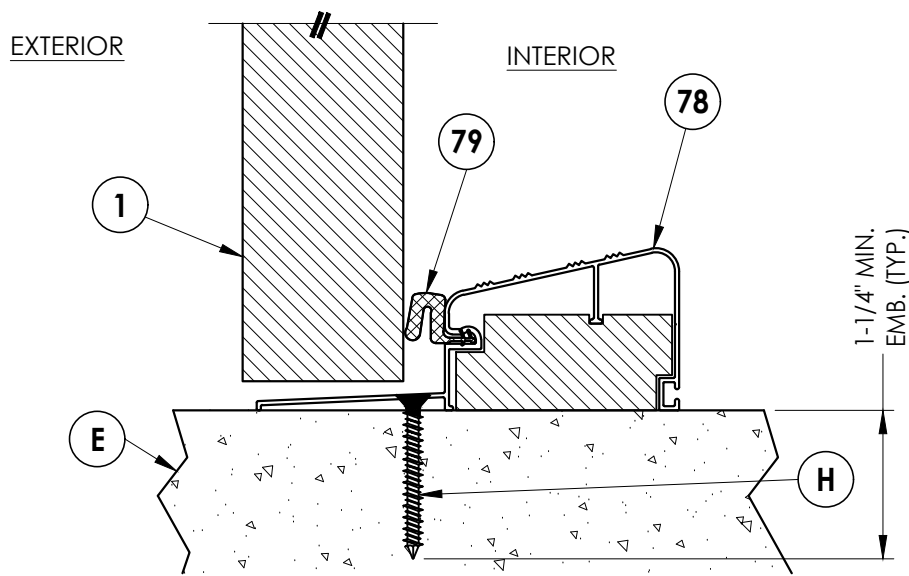
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2 VERTICAL CROSS SECTION
5 Outswing configuration



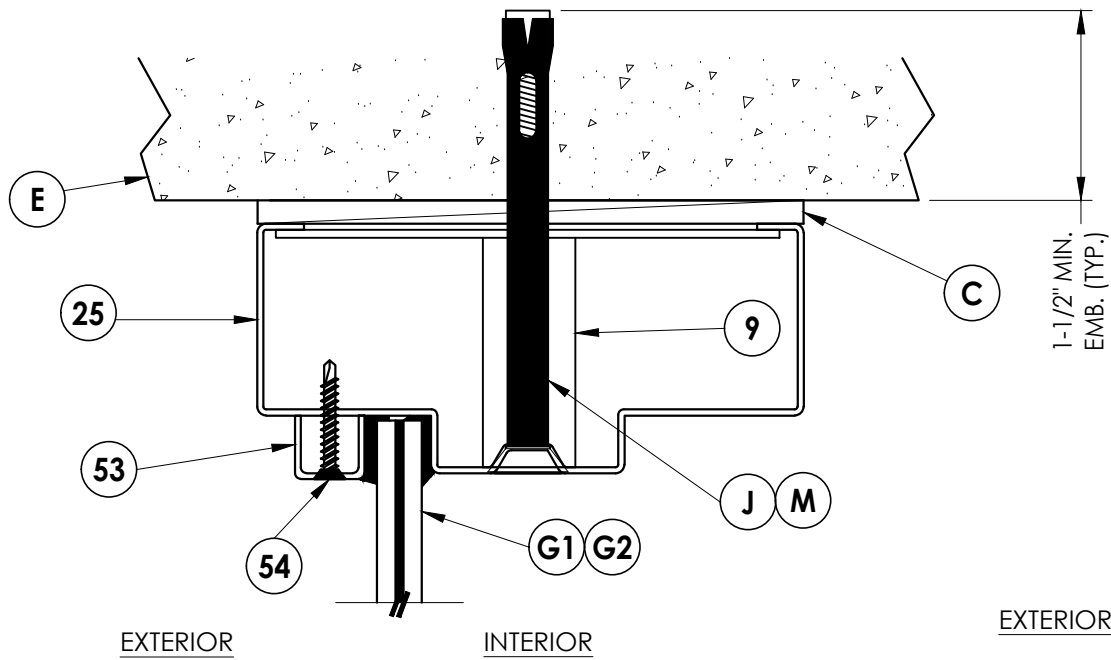
1 VERTICAL CROSS SECTION
5 Outswing configuration



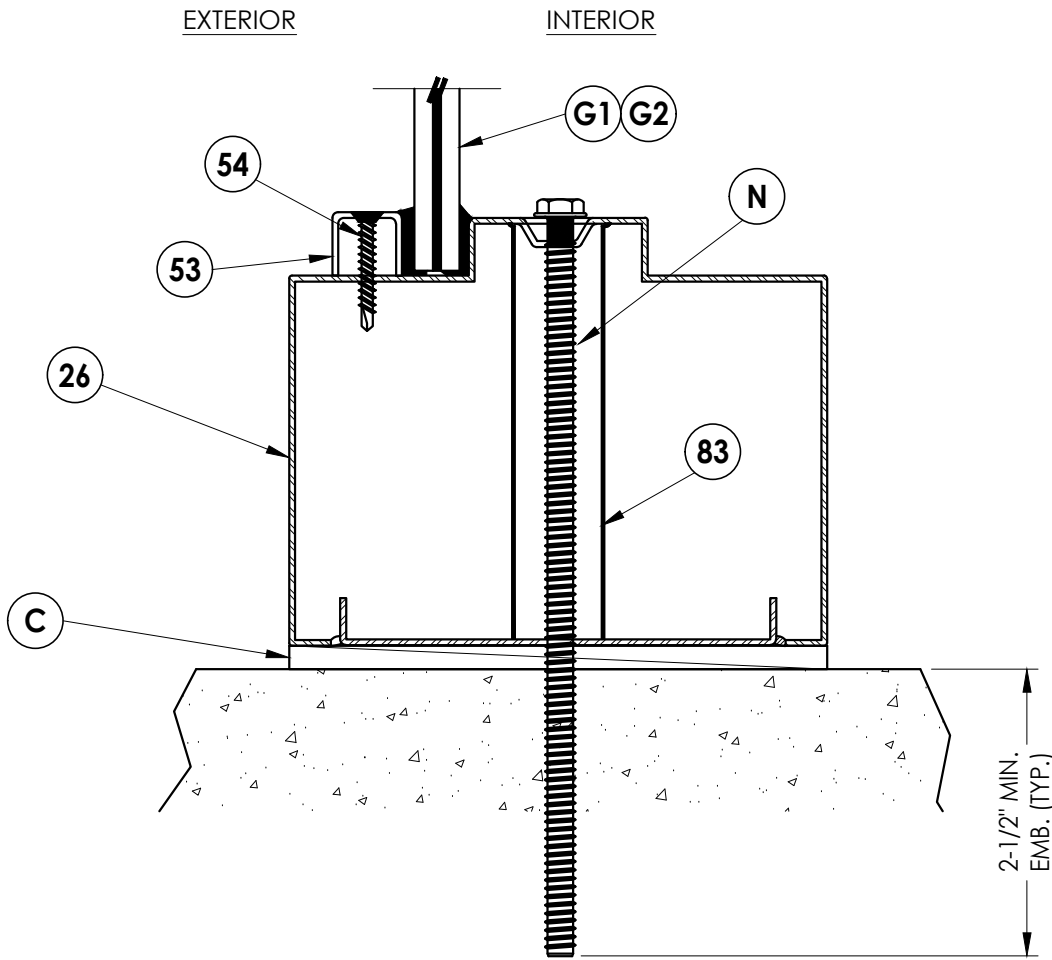
3 VERTICAL CROSS SECTION
5 Outswing configuration

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PRODUCT: MMI "N" OPAQUE STEEL DOOR		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
		LFS	BY
		FBC	
	7/11/23	UPDATE TO 8TH ED. (2023)	REVISIONS
	3 7/30/20	UPDATE TO 7th ED. (2020)	
	2 7/18/17	UPDATE TO 6TH ED. (2017)	
	1 10/14/16	UPDATE TO 5TH ED. (2014)	
	NO.	DATE	
DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.7			
SHEET 5 OF 10			

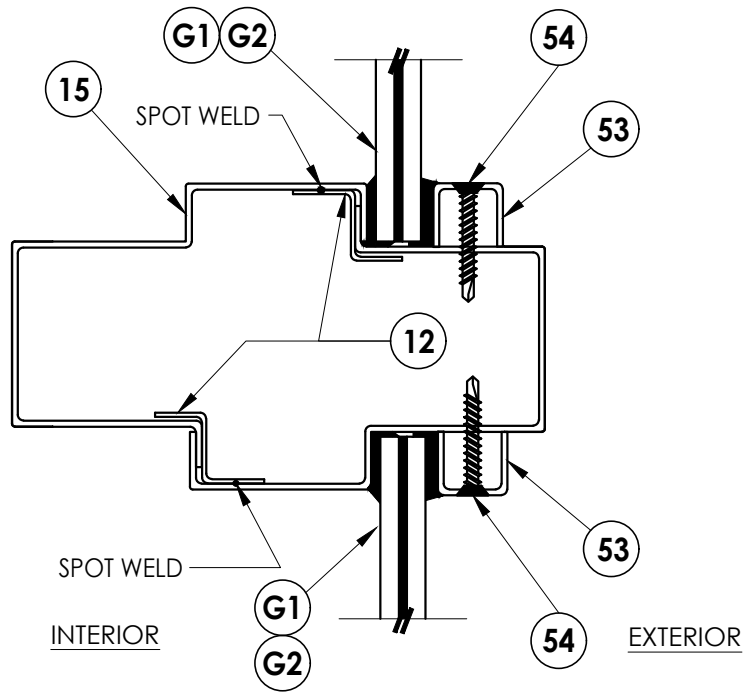
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1
6 VERTICAL CROSS SECTION

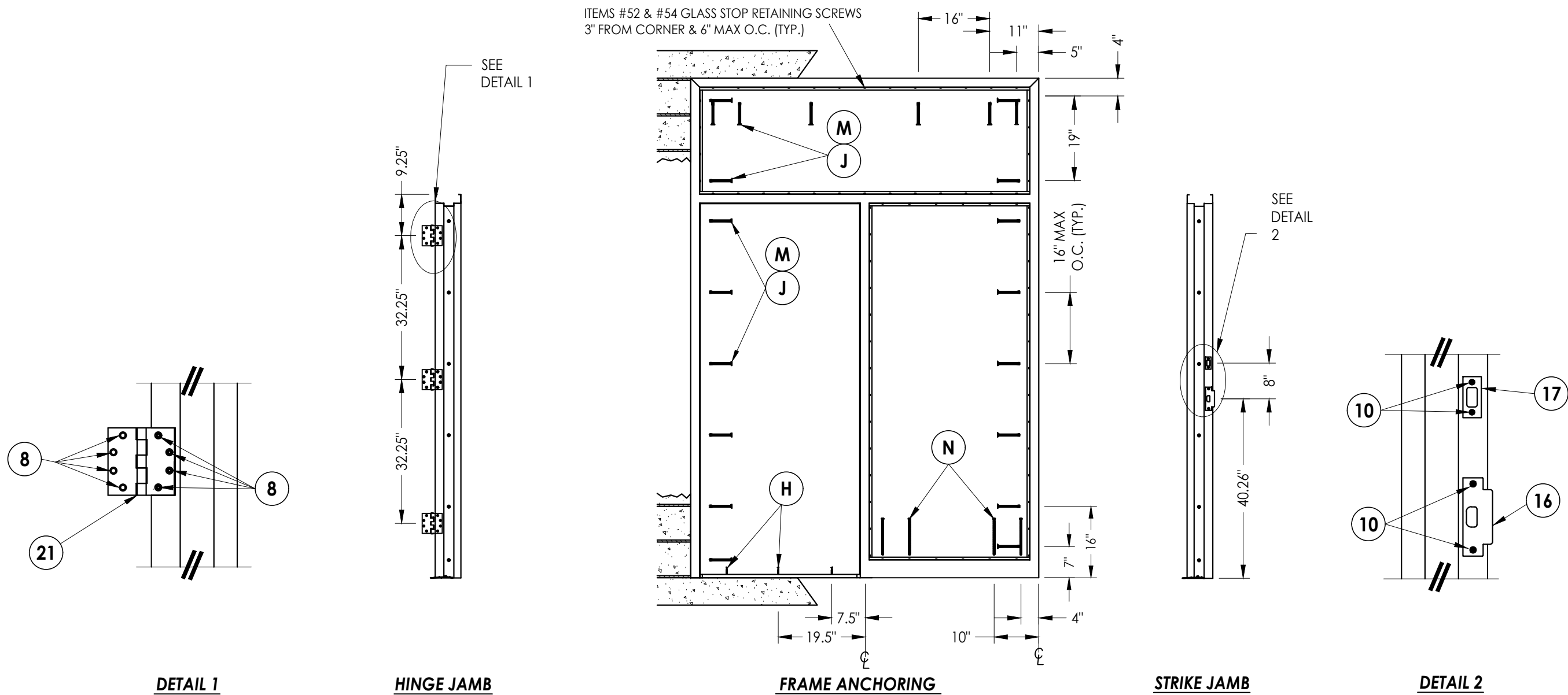


3
6 VERTICAL CROSS SECTION



2
6 VERTICAL CROSS SECTION

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ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. 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"
TAPPER	3/8"	1-1/2"	4-1/4"	6"
SCREW-BOLT+™	1/2"	2-1/2"	6"	6"

4. Embedment may be through 1-1/4" face shell of hollow block.

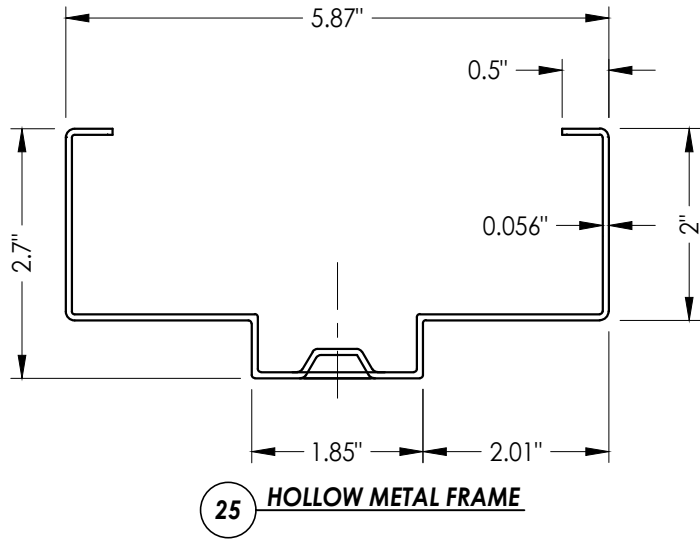
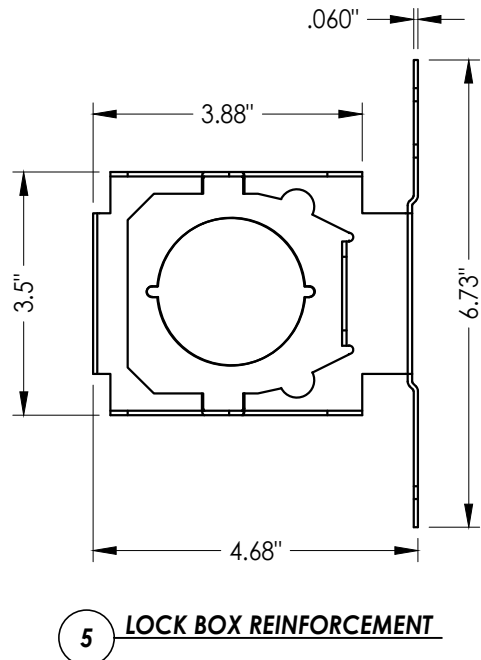
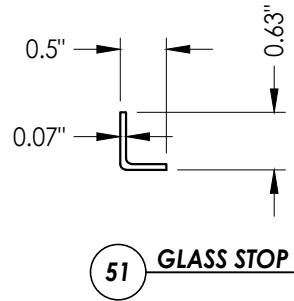
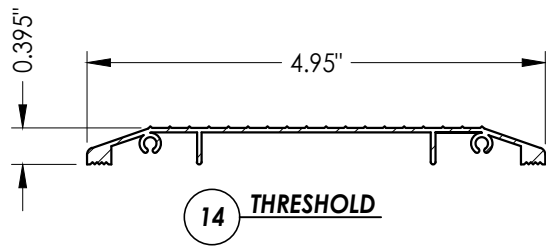
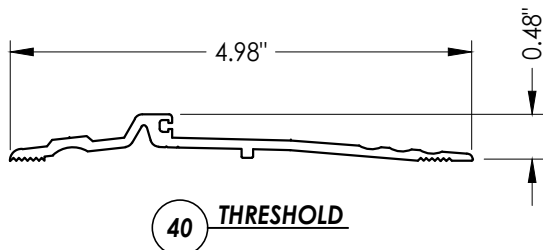
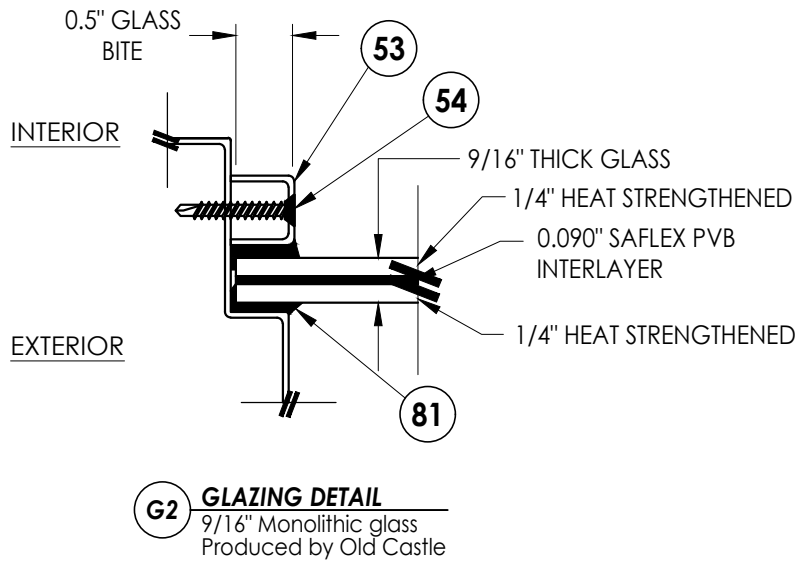
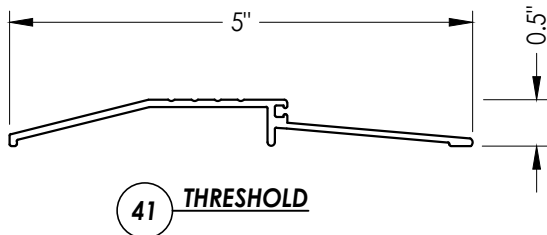
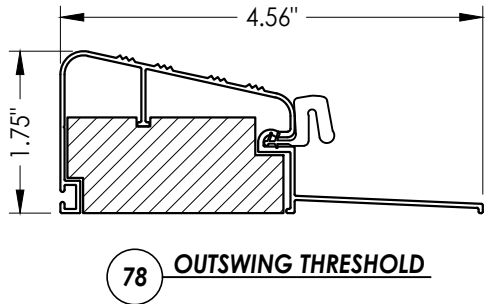
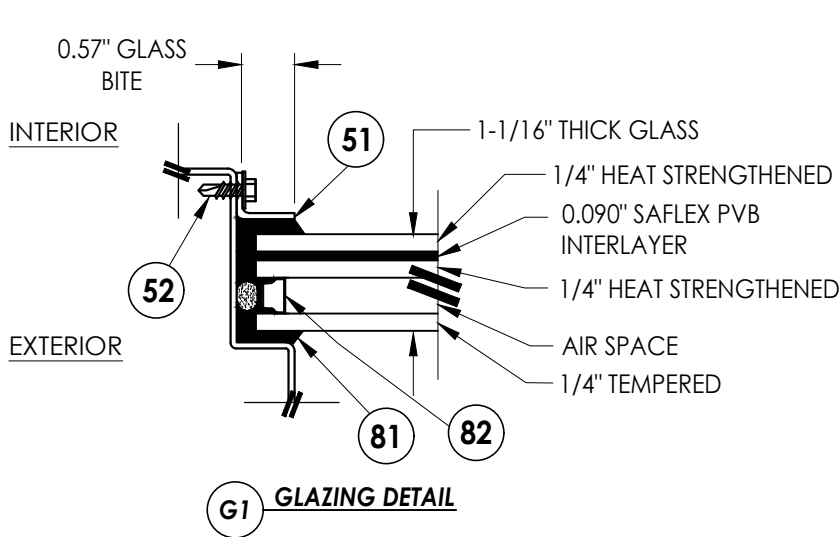
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Lyndon F. Schmidt
P.E. No. 43409

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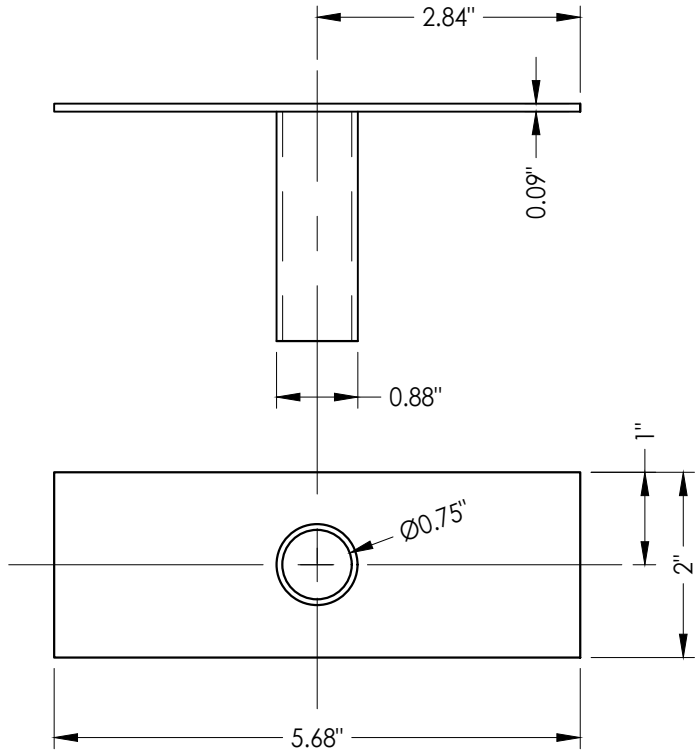
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PRODUCT:	MMI
	"N" STEEL DOOR
PART OR ASSEMBLY:	GLAZING DETAILS & COMPONENTS

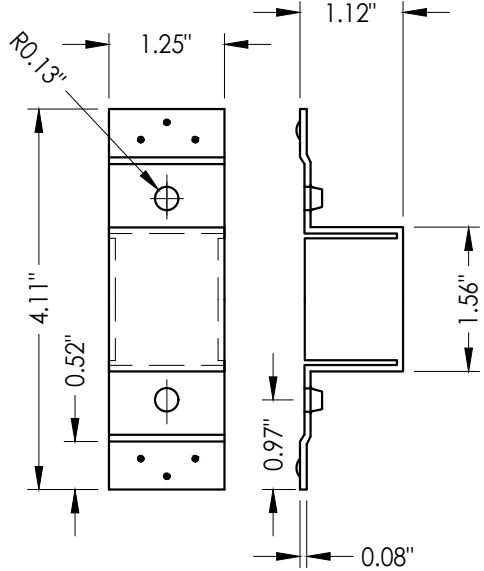
NO.	DATE	REVISIONS			
		DATE	BY	CHK	APP
4	7/11/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	7/30/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC
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1	10/14/16	UPDATE TO 5TH ED.	(2014)	FBC	JK

DATE:	11/3/08
SCALE:	N.T.S.
DWG. BY:	AL
CHK. BY:	LFS
DRAWING NO.:	FL-12186.7
SHEET	8 OF 10

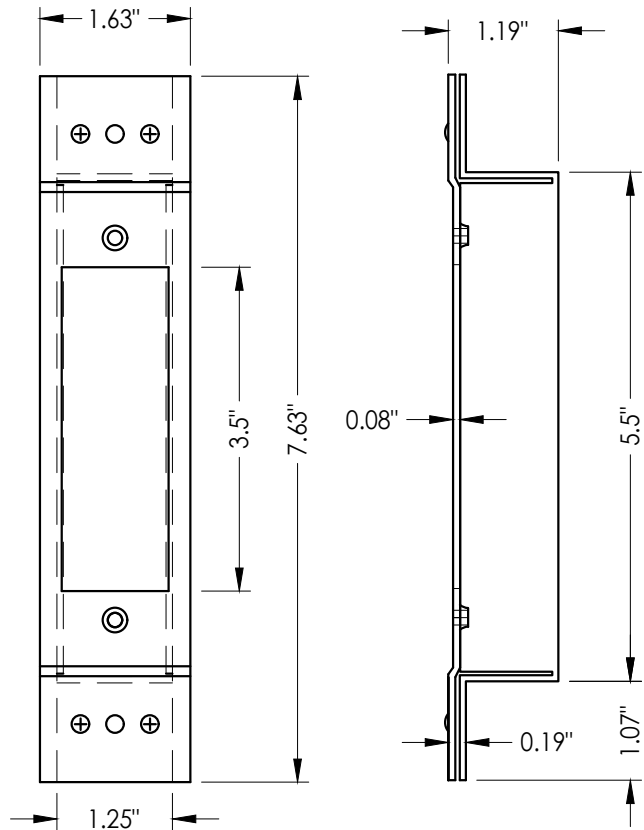
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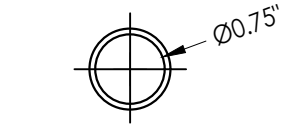
9 TUBE ANCHOR



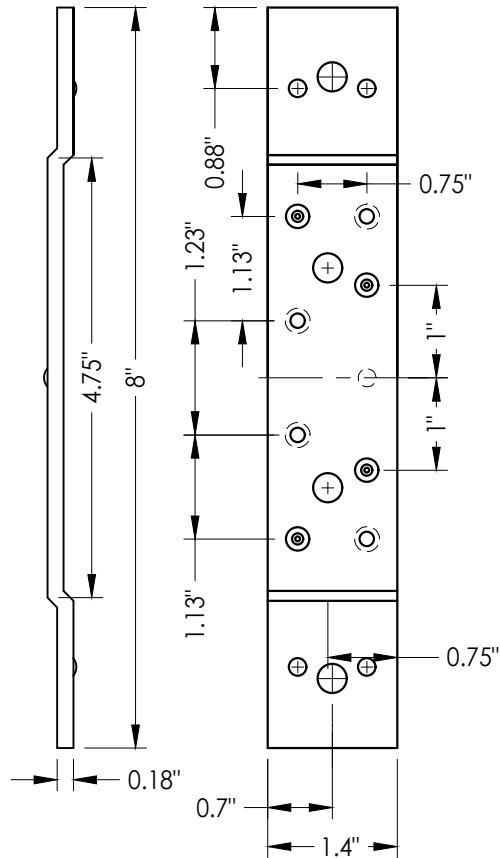
19 DEADBOLT STRIKE REINFORCEMENT



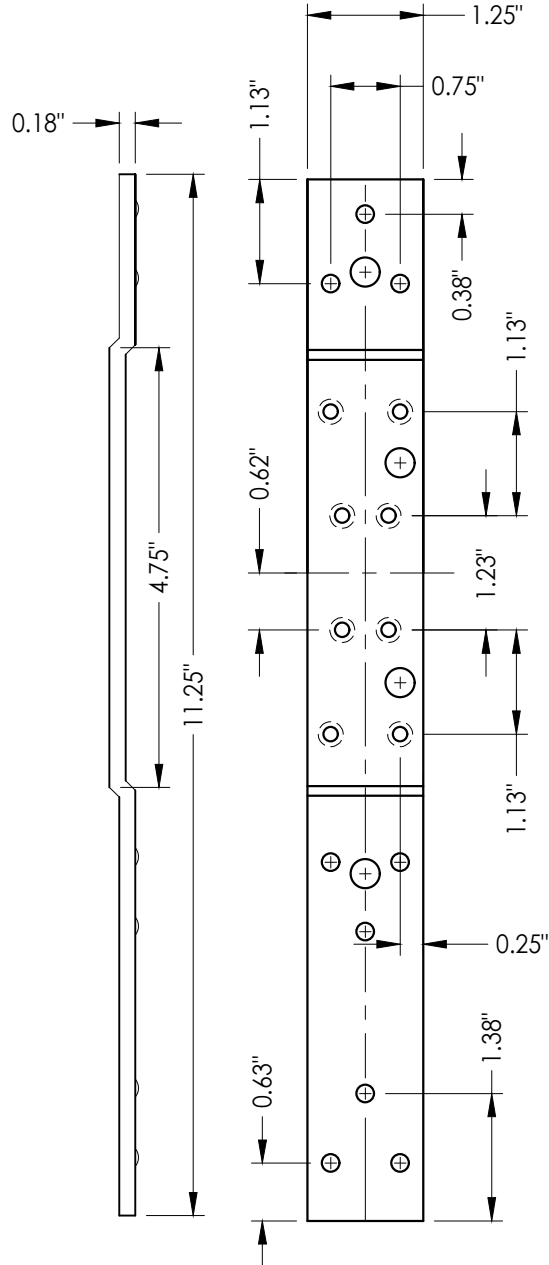
27 LATCH STRIKE REINFORCEMENT



83 SILL TUBE ANCHOR



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



22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge

DATE:	11/3/08
SCALE:	N.T.S.
DWG. BY:	AL
CHK. BY:	LFS
DRAWING NO.:	FL-12186.7
SHEET	9 of 10

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		BY

PRODUCT:	MMI "N" STEEL DOOR
PART OR ASSEMBLY:	COMPONENTS

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