

G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12186 RA\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

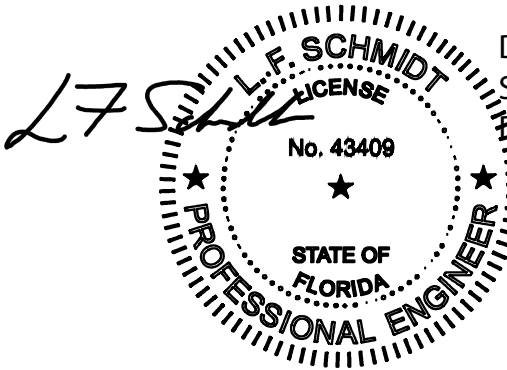
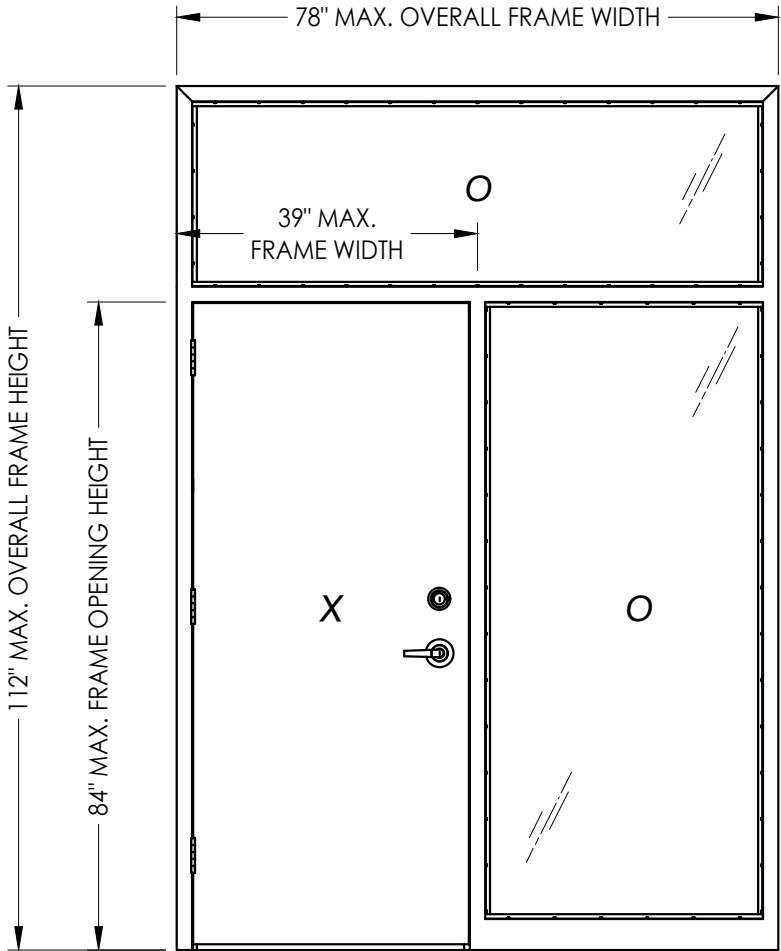
INSWING / OUTSWING "NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) 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 Section 1609.1.2 of the FBC and Section 1609.1.2.2 of the FBC.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel sections 161 lock prep
3	Horizontal cross sections
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5	Vertical cross sections
6	Vertical cross sections
7	Anchoring details
8	Glazing detail & components
9	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
78.0" x 112.0"	34.75" x 78.75"	72.75" x 22.75"	161 LATCH (SCHLAGE)	G1	+55.0	-55.0
			161 LATCH & DEADBOLT (DESIGN HARDWARE)		+65.0	-65.0



Digitally signed by Lyndon F Schmidt
Date: 2026.07.01 14:48:56 -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

57/01/26UPDATE TO 9TH ED. (2026) FBC

47/11/23UPDATE TO 8TH ED. (2023) FBC

37/30/20UPDATE TO 7TH ED. (2020) FBC

27/18/17UPDATE TO 6TH ED. (2017) FBC

110/14/16UPDATE TO 5TH ED. (2014) FBC

NO. DATE

REVISIONS

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

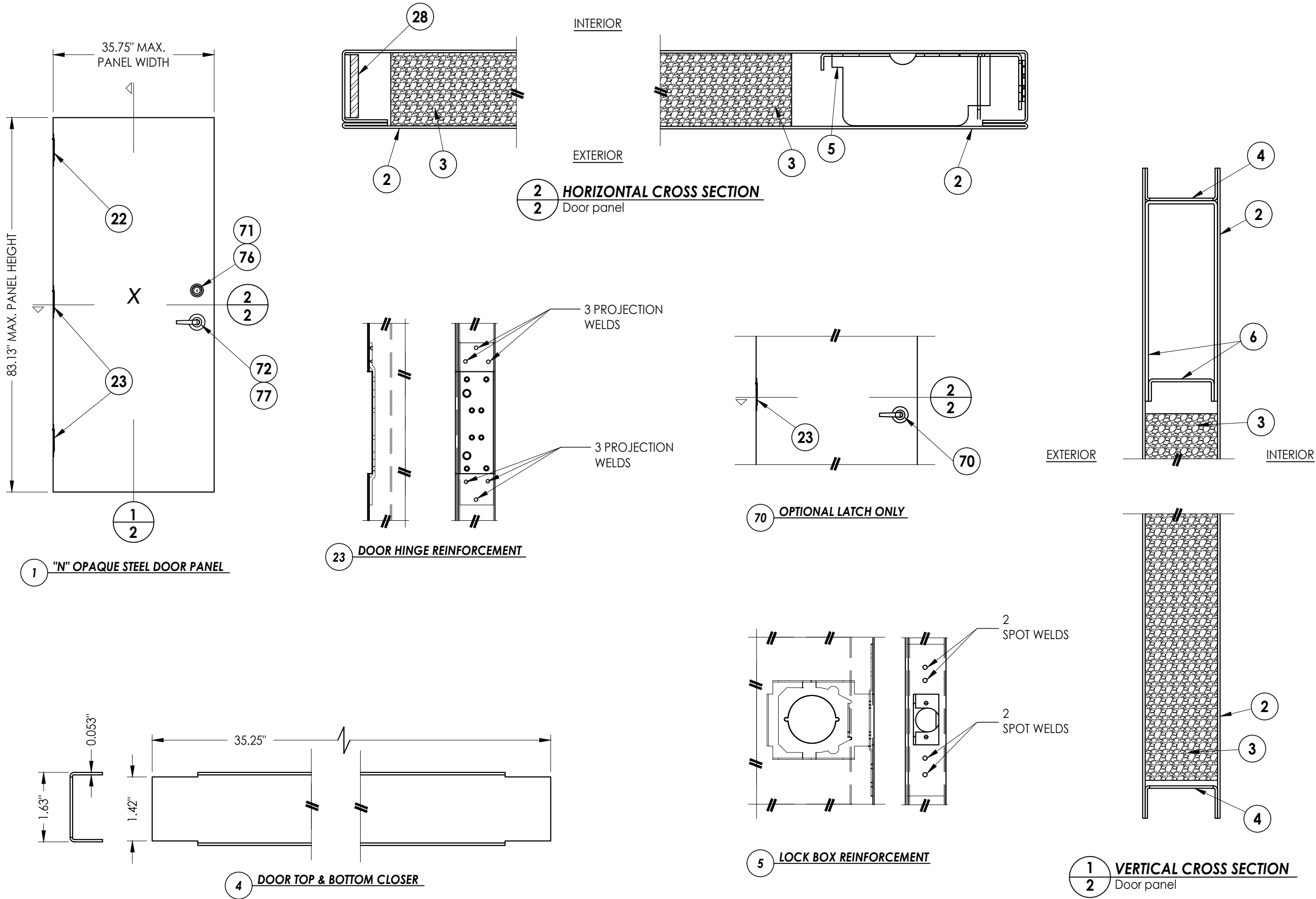
CHK. BY: LFS

DRAWING NO.: FL-12186.3

SHEET 1 OF 9

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

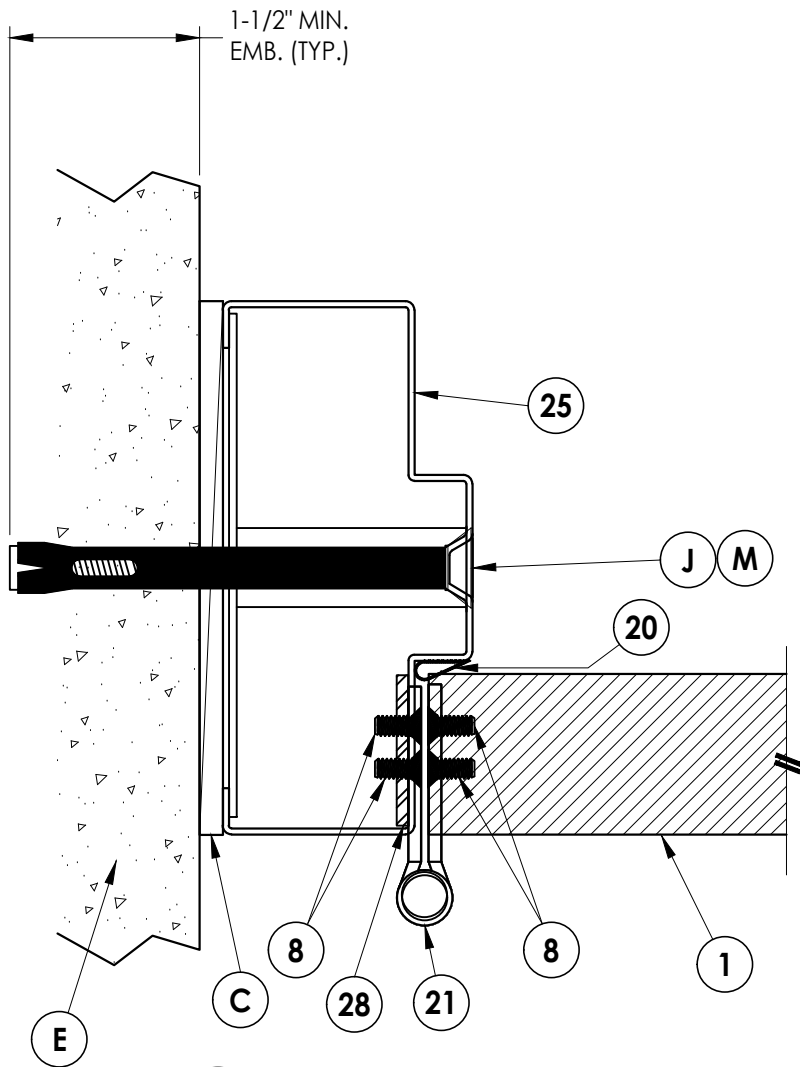
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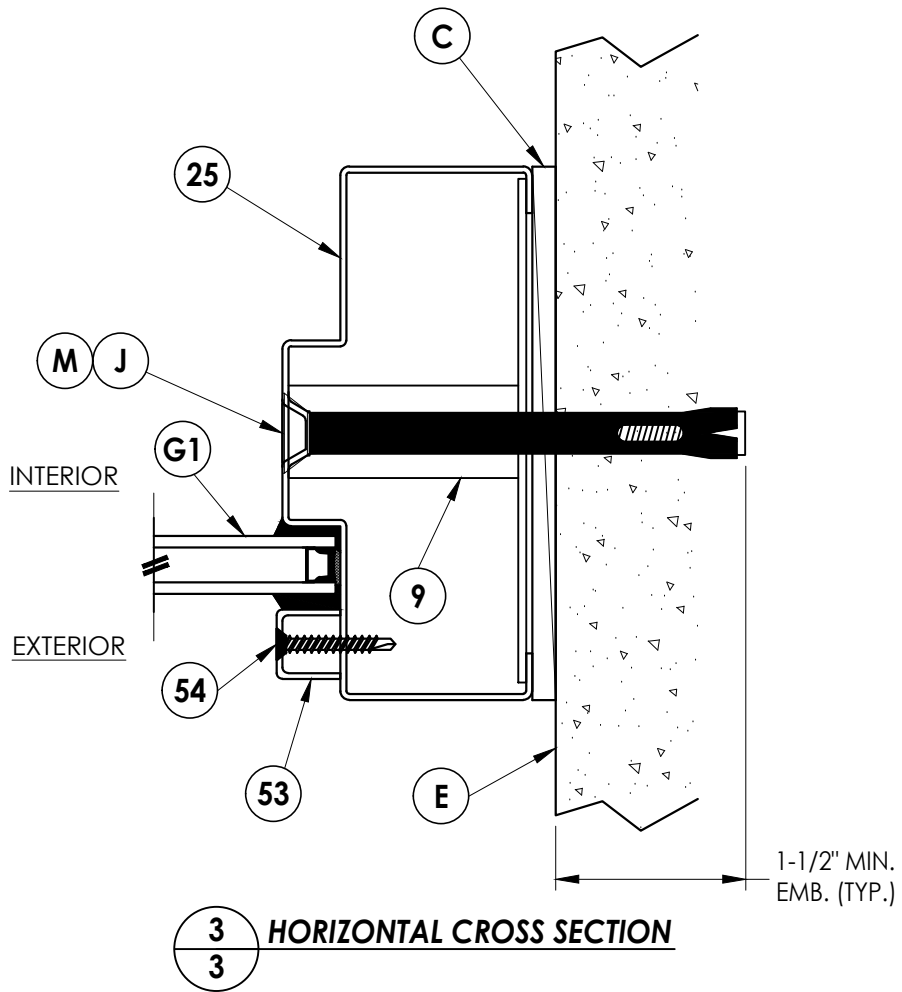
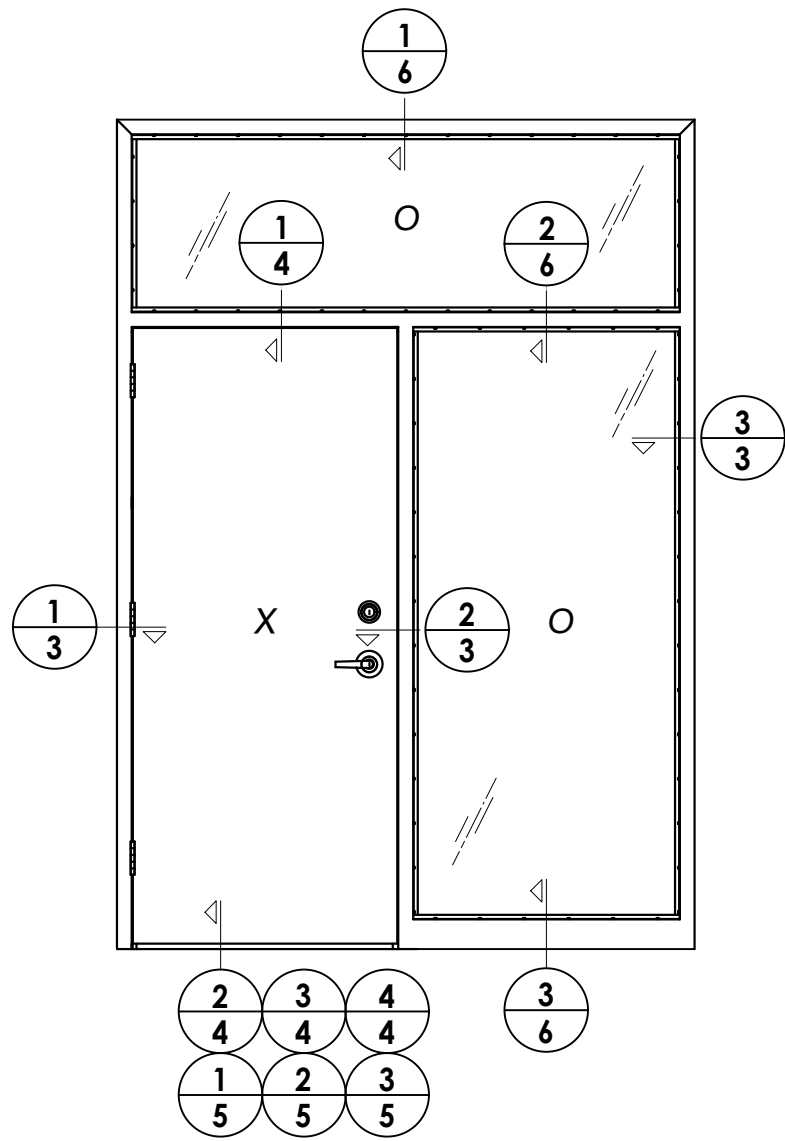
NOTE: ALL WELDING TO CONFORM w/ AMERICAN WELDING SOCIETY, ANSI/AWS AS PER FBC SECTION 2214.3.4.

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: MMI		"N" STEEL DOOR	
PART OR ASSEMBLY:		DOOR PANEL SECTIONS 161 LOCK PREP	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC LFS
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
NO. DATE		REVISIONS	
DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.3			
SHEET 2 OF 9			

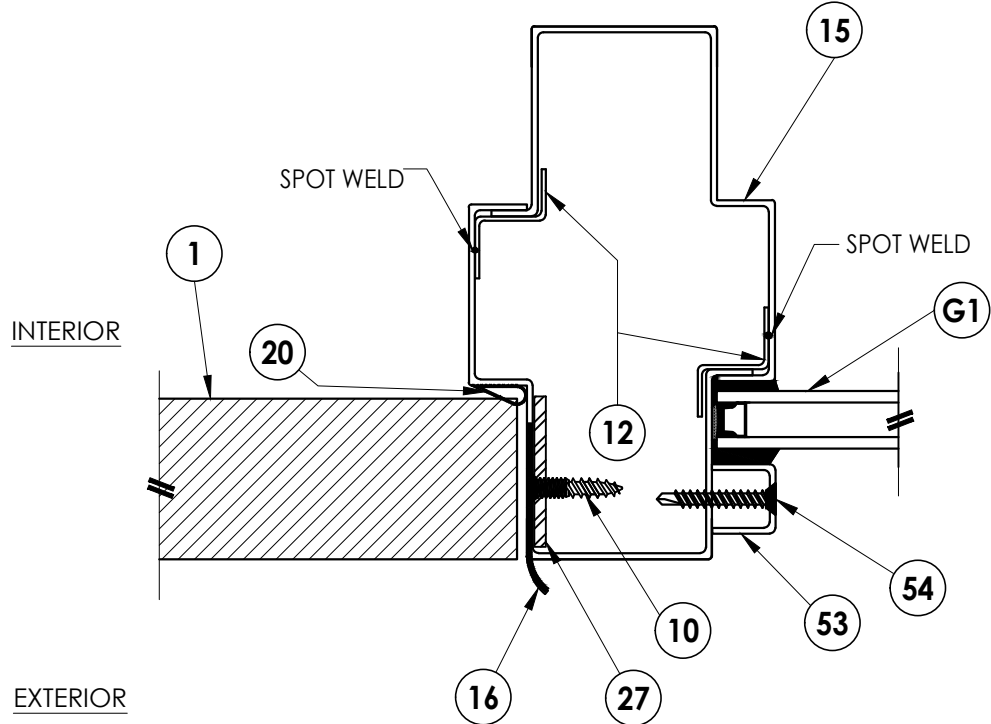
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1
3 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved



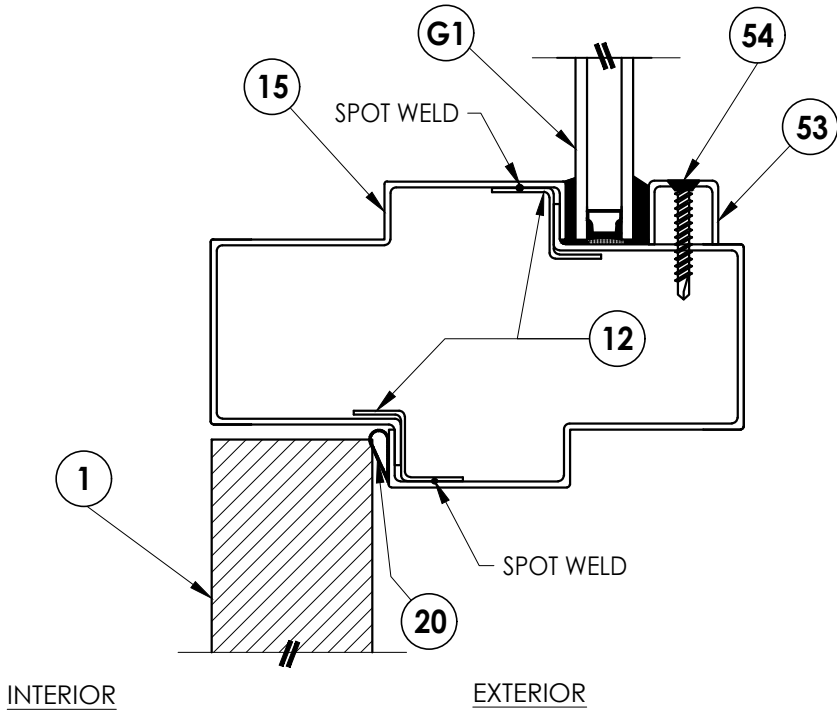
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3 **HORIZONTAL CROSS SECTION**



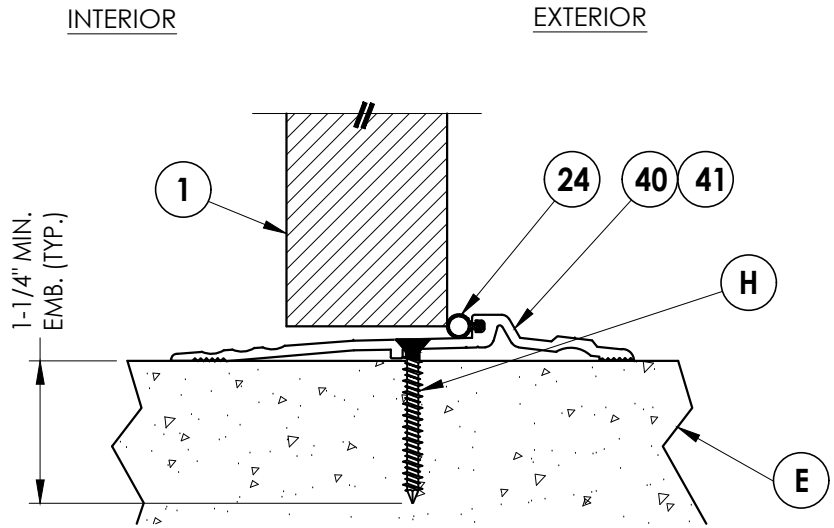
2
3 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved

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PRODUCT: MMI "N" STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC
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
NO.	DATE	REVISIONS	
DATE:	11/3/08		
SCALE:	N.T.S.		
DWG. BY:	AL		
CHK. BY:	LFS		
DRAWING NO.:	FL-12186.3		
SHEET	3	OF	9

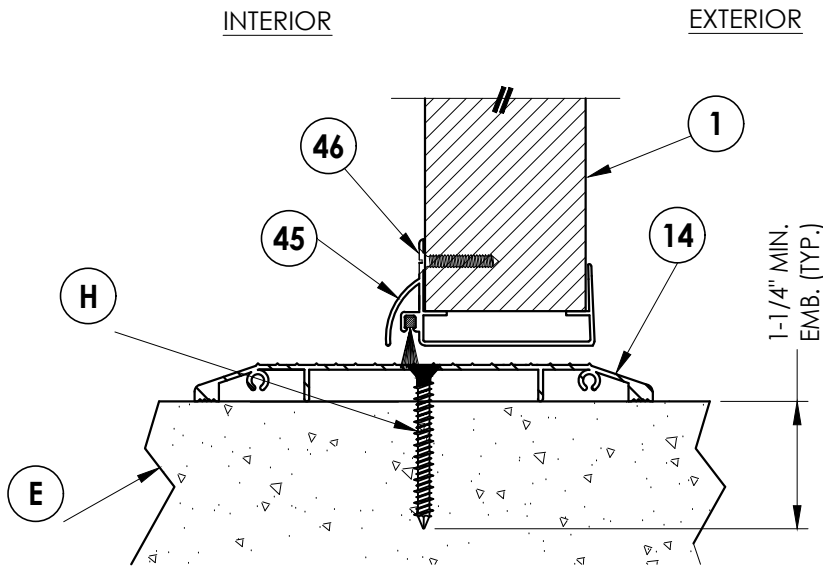
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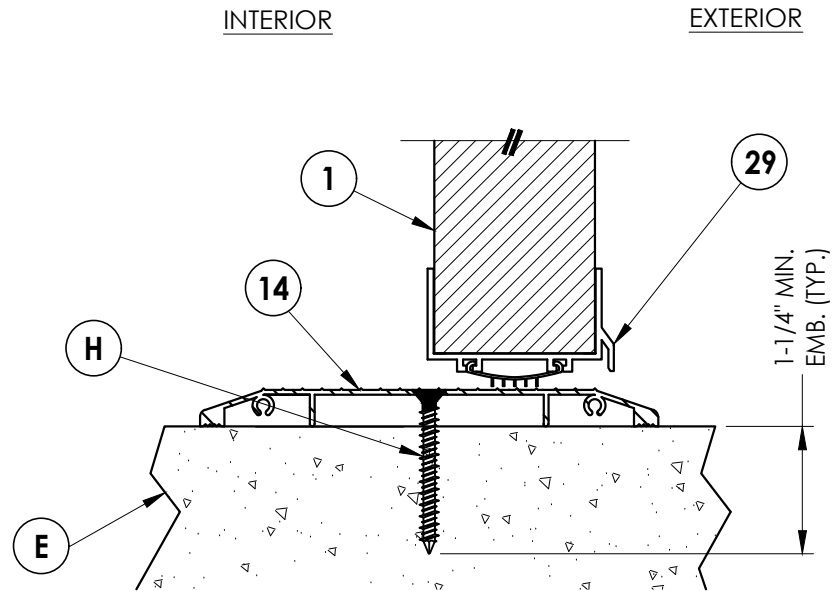
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4 **VERTICAL CROSS SECTION**
Inswing configuration



2
4 **VERTICAL CROSS SECTION**
Inswing configuration



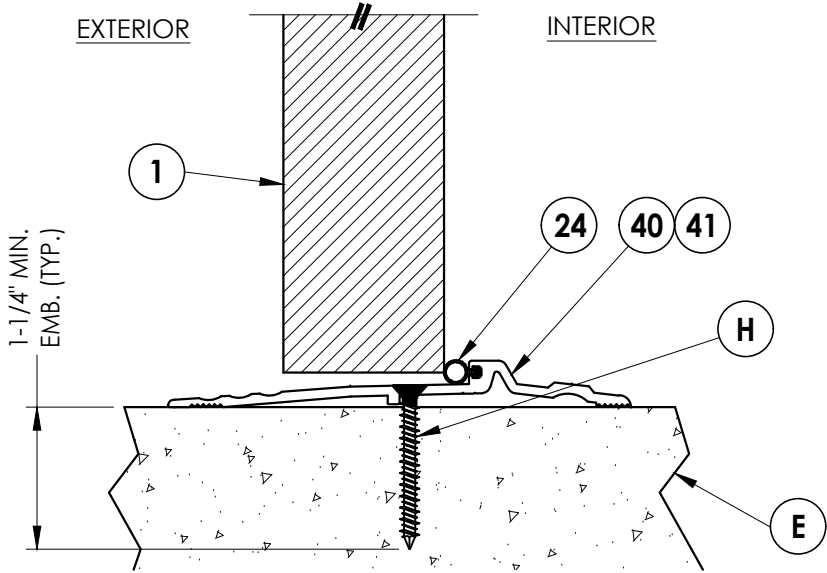
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4 **VERTICAL CROSS SECTION**
Inswing configuration



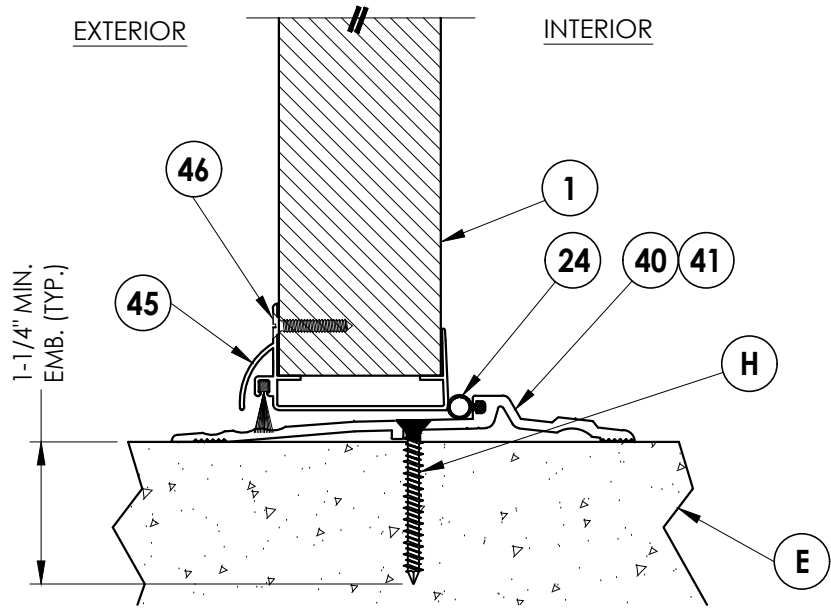
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4 **VERTICAL CROSS SECTION**
Inswing configuration

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PRODUCT:		MMI "N" OPAQUE STEEL DOOR	
		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC LFS
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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NO.	DATE		BY
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DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.3			
SHEET 4 OF 9			

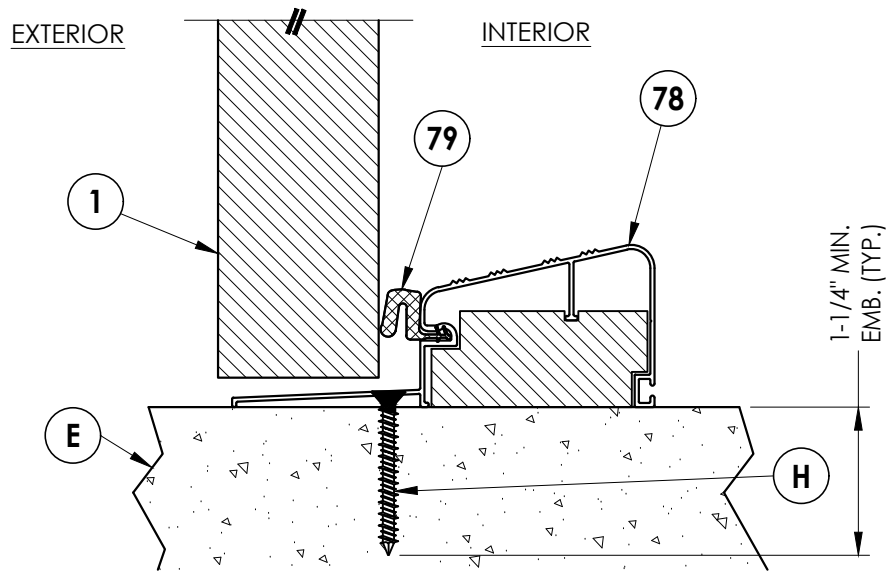
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2
5 **VERTICAL CROSS SECTION**
Outswing configuration



1
5 **VERTICAL CROSS SECTION**
Outswing configuration



3
5 **VERTICAL CROSS SECTION**
Outswing configuration

DATE: 11/3/08
SCALE: N.T.S.
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-12186.3
SHEET 5 OF 9

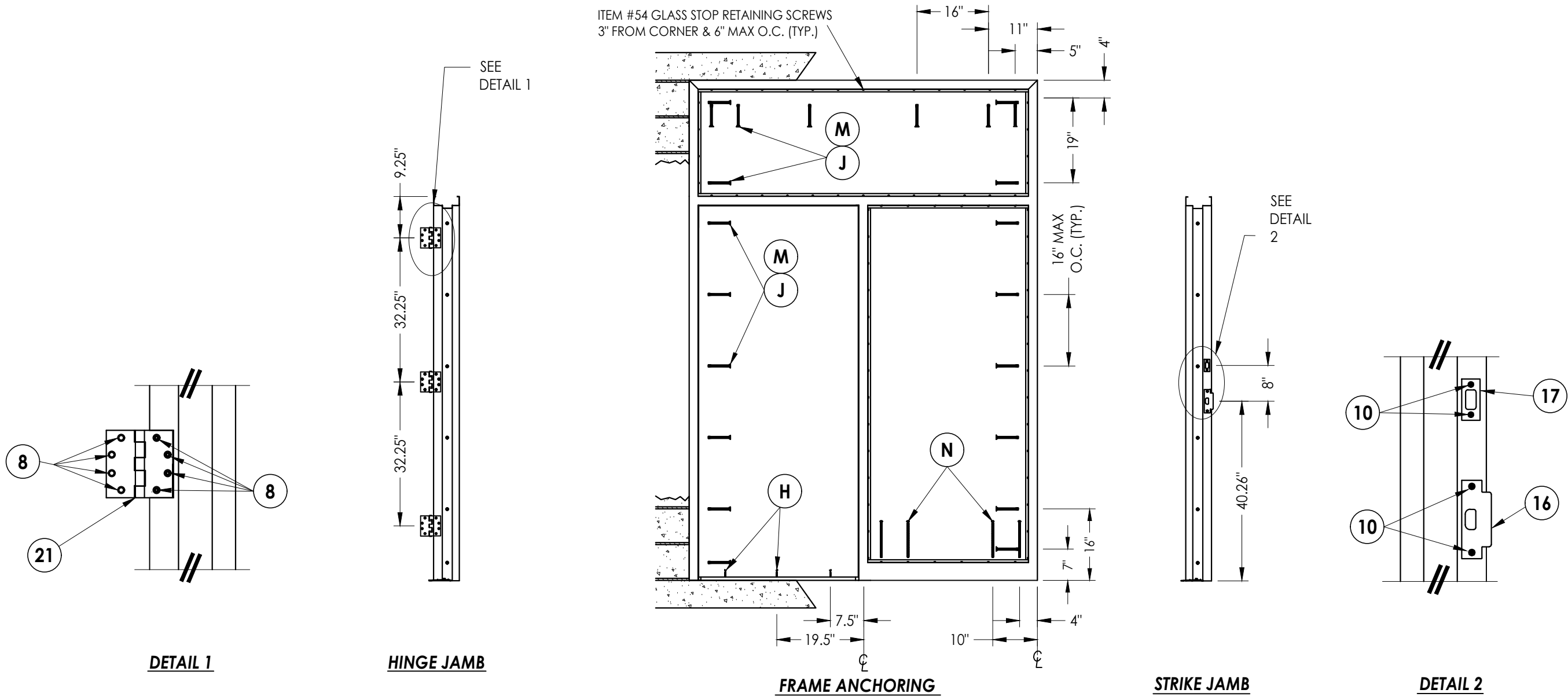
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4	7/11/23	UPDATE TO 8TH ED. (2023) FBC
3	7/30/20	UPDATE TO 7th ED. (2020) FBC
2	7/18/17	UPDATE TO 6TH ED. (2017) FBC
1	10/14/16	UPDATE TO 5TH ED. (2014) FBC
		JK
		LFS
		DAC
		LFS
		BY

PRODUCT:	MMI "N" OPAQUE STEEL DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

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

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- CONCRETE ANCHOR NOTES:**
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
 - Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
 - Concrete anchor table:
- | 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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PRODUCT:
MMI
"N" STEEL DOOR

PART OR ASSEMBLY:
ANCHORING DETAILS

REVISIONS

NO.	DATE	BY
5	7/01/26	UPDATE TO 9TH ED. (2026)
4	7/11/23	UPDATE TO 8TH ED. (2023)
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)

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

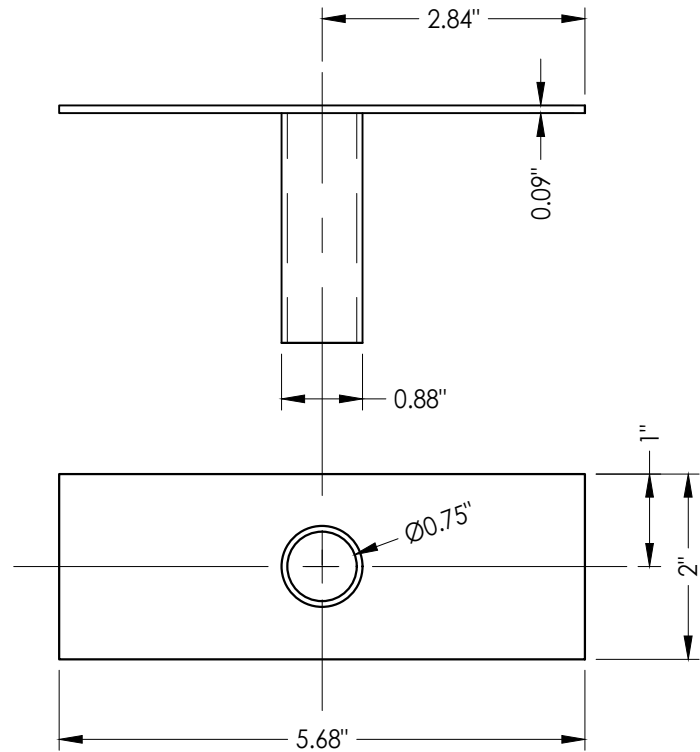
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SHEET 7 OF 9

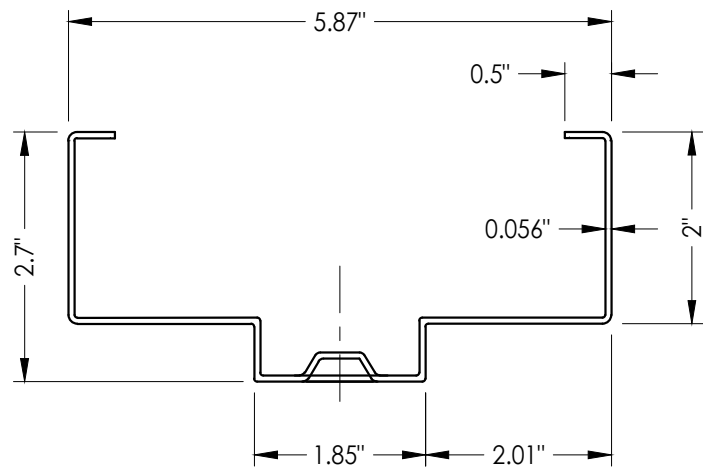
Building Consultants, Inc.
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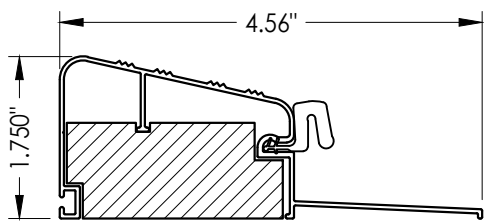
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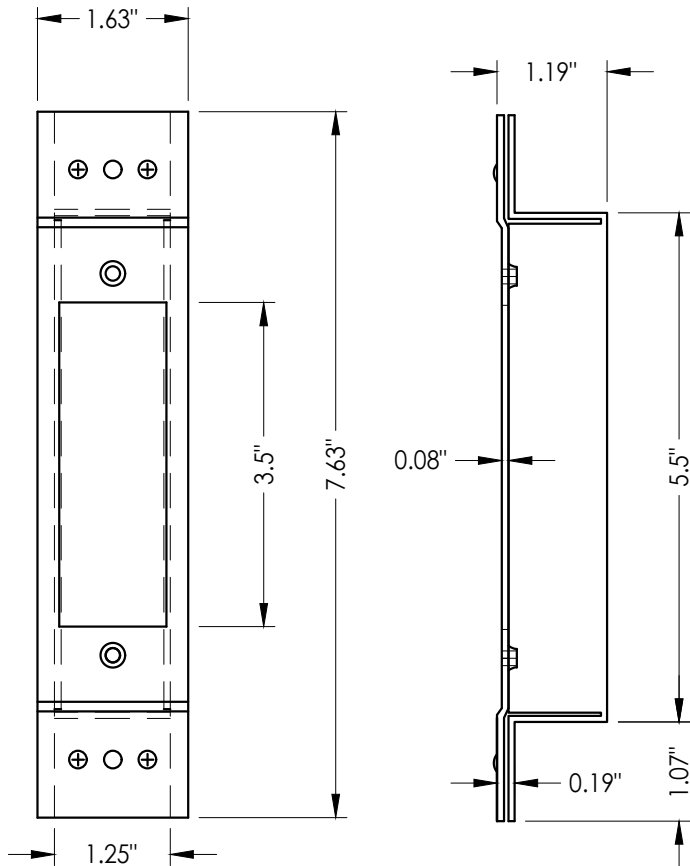
9 TUBE ANCHOR



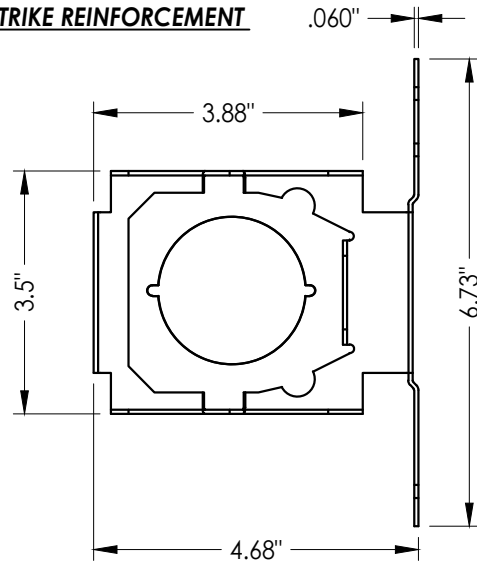
25 HOLLOW METAL FRAME



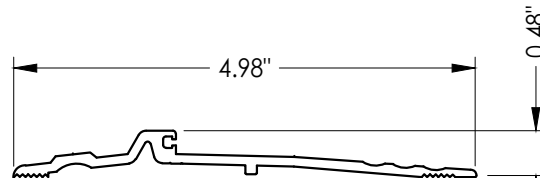
78 OUTSWING THRESHOLD



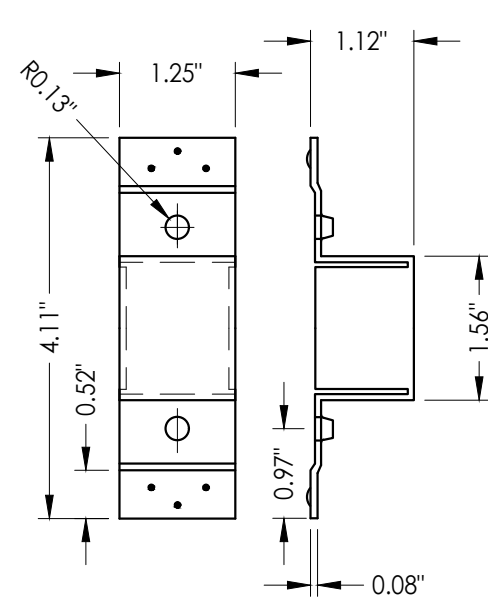
27 LATCH STRIKE REINFORCEMENT



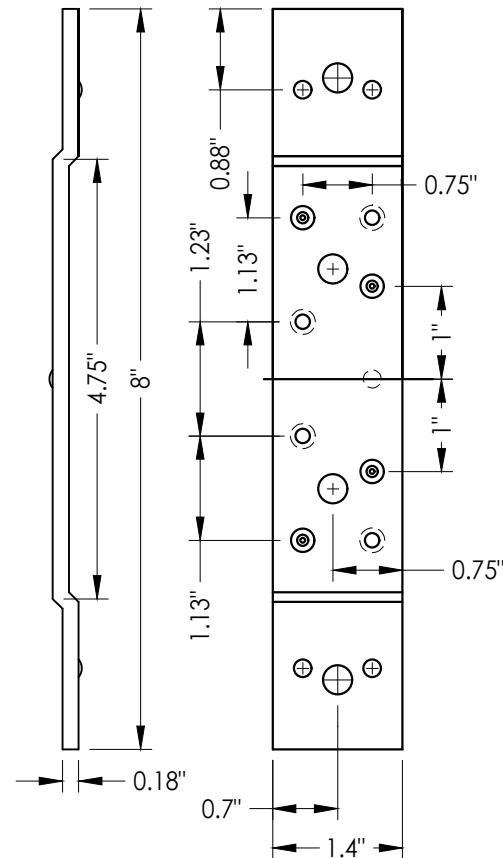
5 LOCK BOX REINFORCEMENT



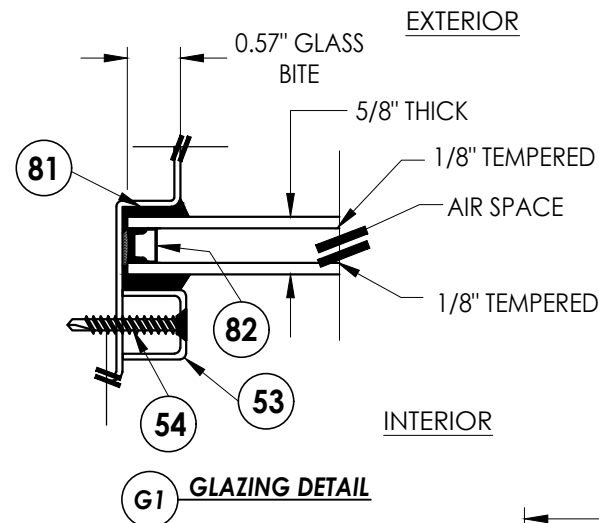
40 THRESHOLD



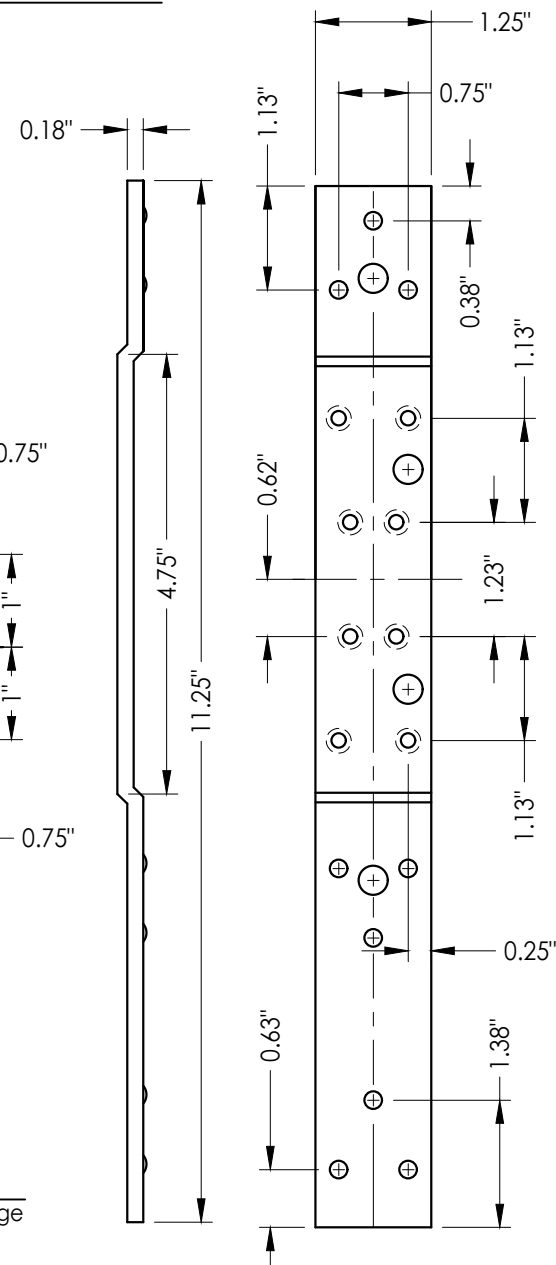
19 DEADBOLT STRIKE REINFORCEMENT



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



G1 GLAZING DETAIL

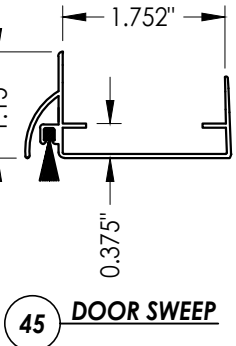
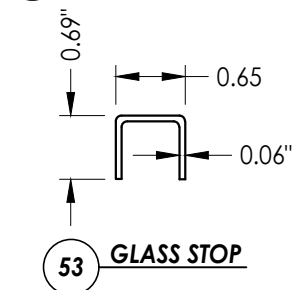
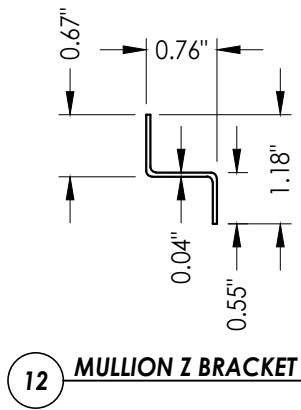
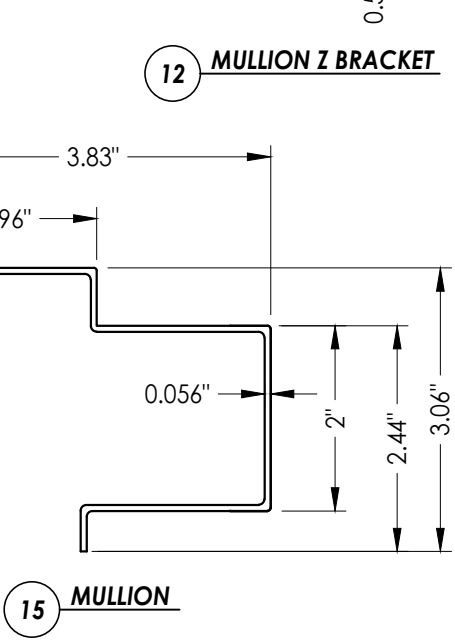
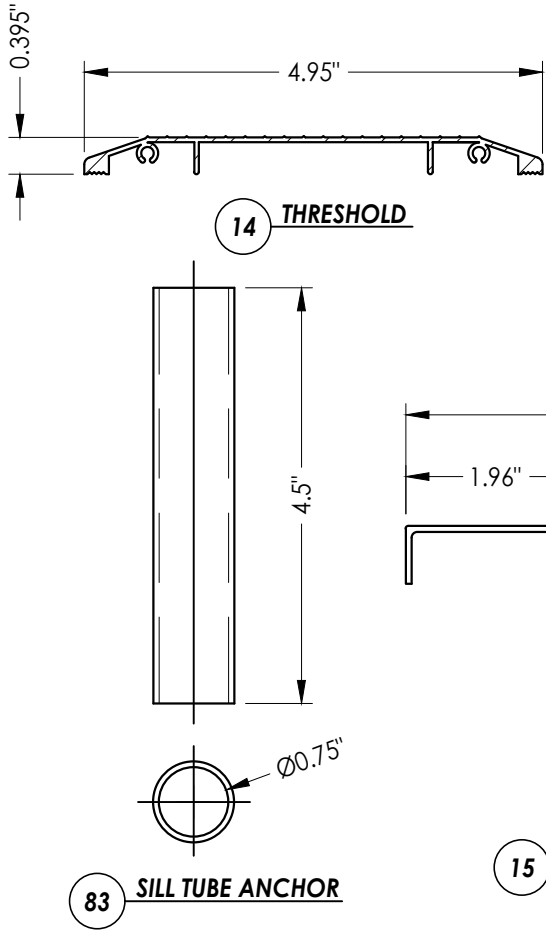
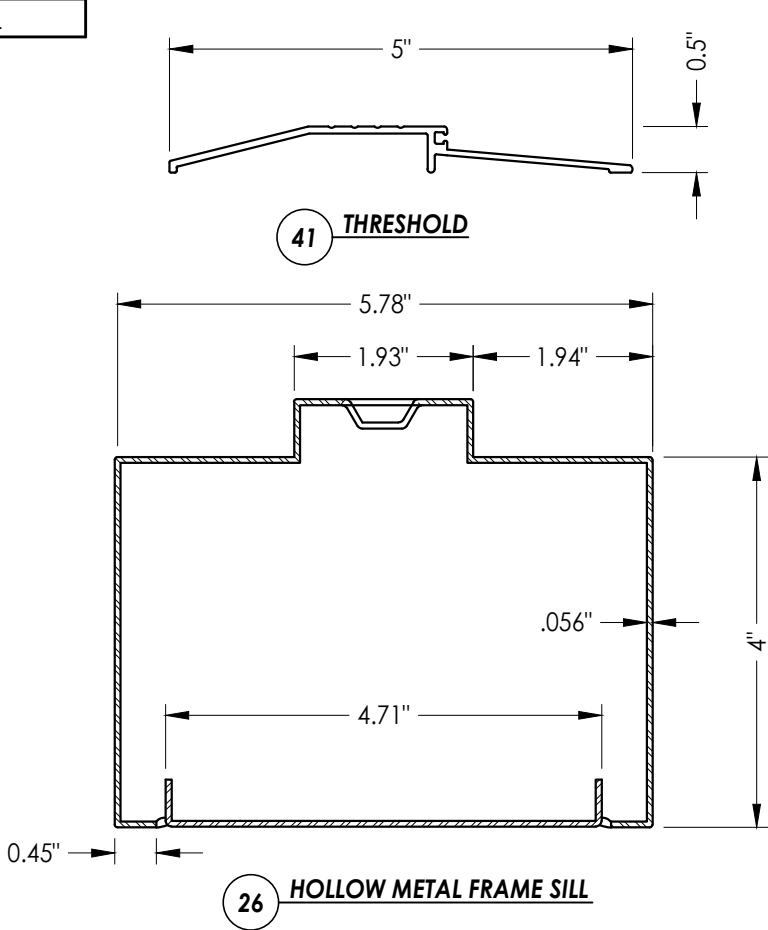
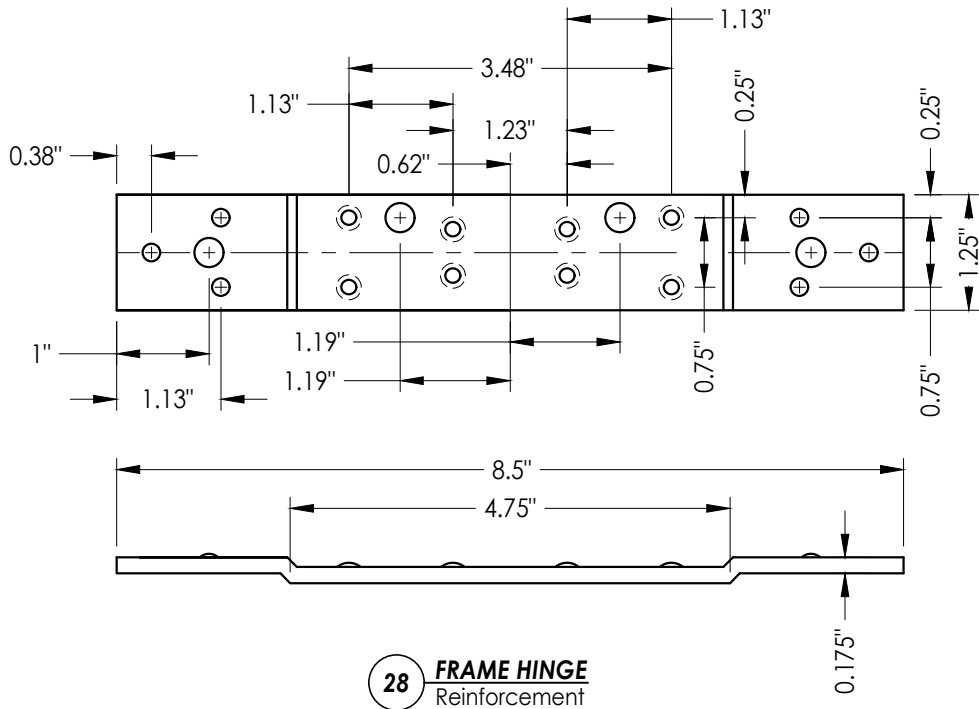


22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge

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PRODUCT:		MMI "N" STEEL DOOR		PART OR ASSEMBLY: GLAZING DETAIL AND COMPONENTS	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	BY
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	DATE
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	NO.
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	REVISIONS
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-12186.3		SHEET 8 OF 9	

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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
			25	FRAME 5-3/4" X 2" MIN. (0.056" THK) BY MMI	STEEL
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL	26	FRAME SILL 5-3/4" X 4" MIN. (0.056" THK) BY MMI	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL	27	LATCH STRIKE REINFORCEMENT	STEEL
M	1/2" X 8" HH SCREW-BOLT+ CONC. ANCHOR (DeWALT/POWERS)	STEEL	28	FRAME HINGE REINFORCEMENT	STEEL
N	1/2" X 8" HH WEDGE-BOLT FOR CONCRETE BY POWERS FAST.	STEEL	29	COLUMBIA DOOR BOTTOM SWEEP #2580	ALUMINUM
1	"N" OPAQUE STEEL DOOR PANEL	-	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
2	DOOR SKIN (0.042" THK. STEEL, Fy = 40,300 PSI MIN.)	STEEL	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
4	DOOR TOP & BOTTOM CLOSER	STEEL	46	#6 X 3/4" PHILIPS HEAD SMS	STEEL
5	LOCK BOX REINFORCEMENT	STEEL	53	U-CHANNEL GLASS STOP	STEEL
6	CLOSER REINFORCEMENT	STEEL	54	#8 X 1.25" PFH SMS	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
9	TUBE ANCHOR	STEEL	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
12	MULLION Z BRACKET	STEEL	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
15	MULLION MIN. (0.056" THK) BY MMI	STEEL	78	OUTSWING THRESHOLD QOSH BY DLP	ALUM/WOOD
16	ANSI LATCH STRIKE	STEEL	79	WEATHER-STRIP	FOAM
17	DEADBOLT STRIKE	STEEL	81	DOW 995 STRUCTURAL SILICONE	SILICONE
19	DEADBOLT STRIKE REINFORCEMENT	STEEL	82	GLASS SPACER	ALUMINUM
20	WEATHER-STRIP	NEOPRENE	83	SILL TUBE ANCHOR	STEEL
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL			
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL			



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PRODUCT: MMI "N" STEEL DOOR,		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC
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SHEET 9 OF 9			