



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

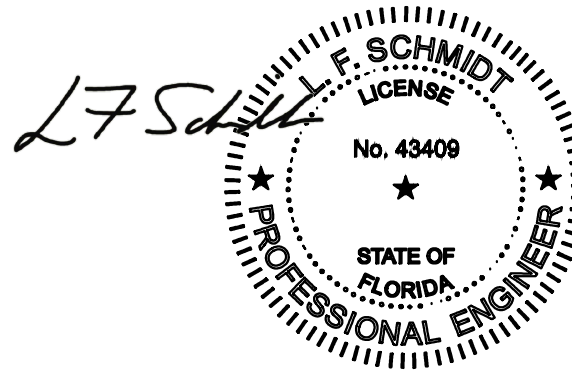
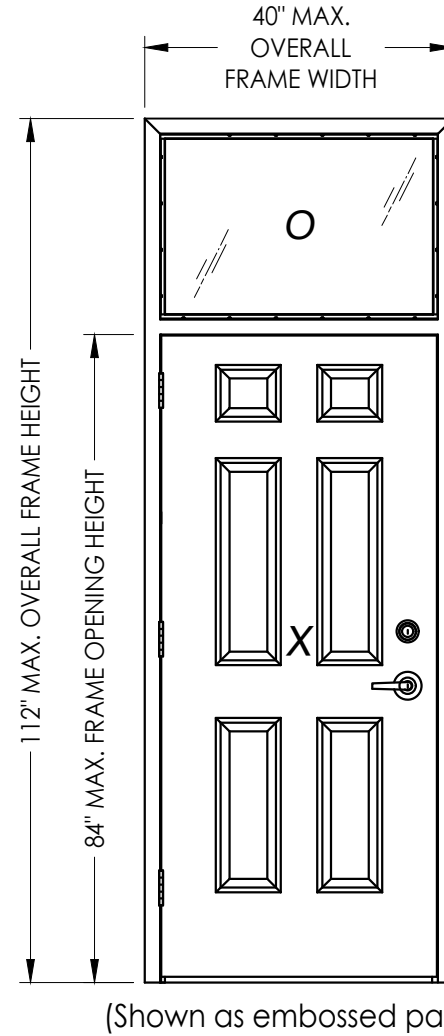
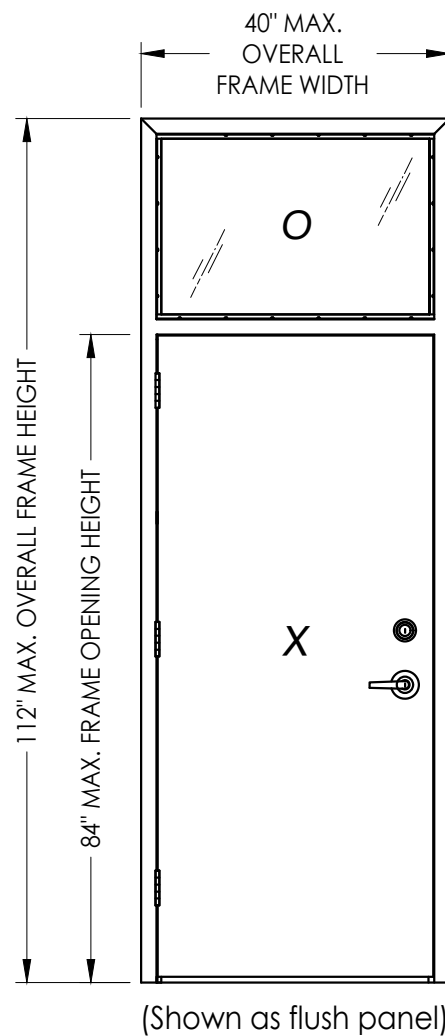
"N" SERIES COMMERCIAL STEEL DOOR w/ TRANSOM INSWING / OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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.
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	Anchoring details
7	Glazing detail & components
8	Bill of materials & components

OVERALL FRAME DIMENSION	TRANSOM D.L.O. DIMENSION	LOCK TYPE	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
40.0" x 112.0"	34.75" x 22.75"	161 LATCH (SCHLAGE)	G1, G2	+55.0	-55.0
		161 LATCH & DEADBOLT (DESIGN HARDWARE)		+65.0	-65.0



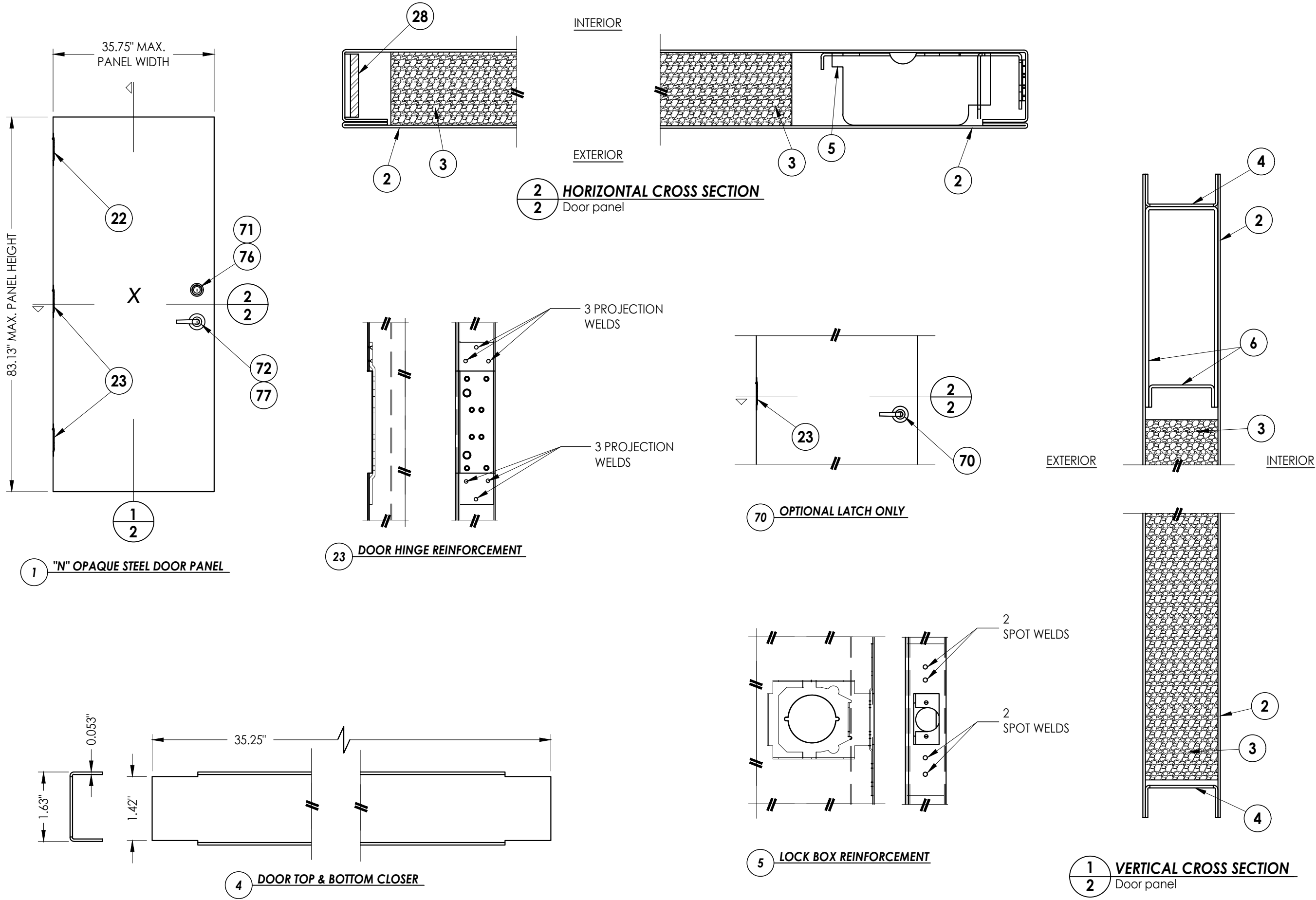
Digitally signed by
Lyndon F Schmidt
Date: 2026.07.24
09:12:10 -04'00'

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

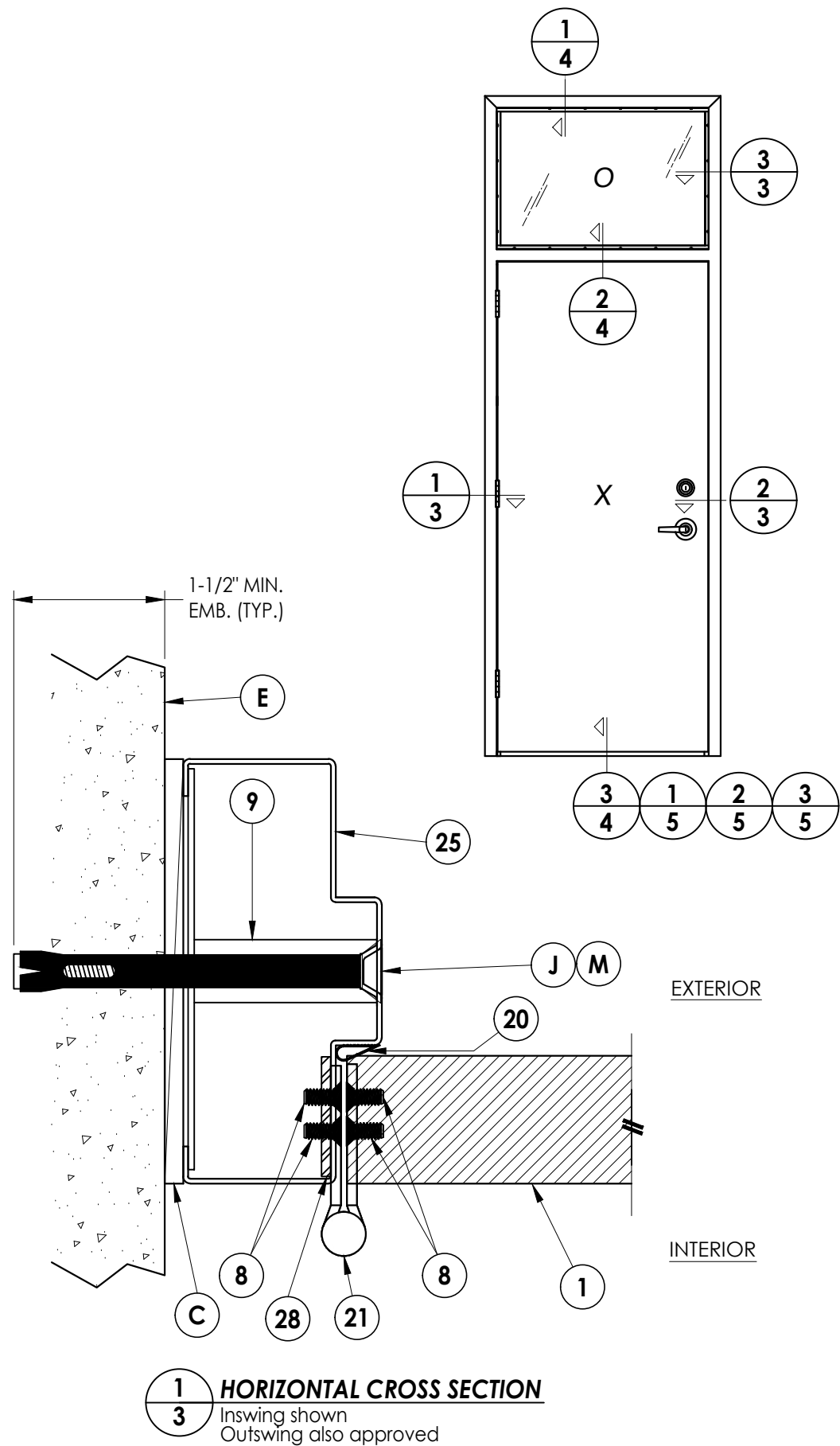
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409					BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813				
PRODUCT: MMI "N" STEEL DOOR					PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES				
5	7/01/26	UPDATE TO 9TH 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-12186.5									
SHEET 1 OF 8									

G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



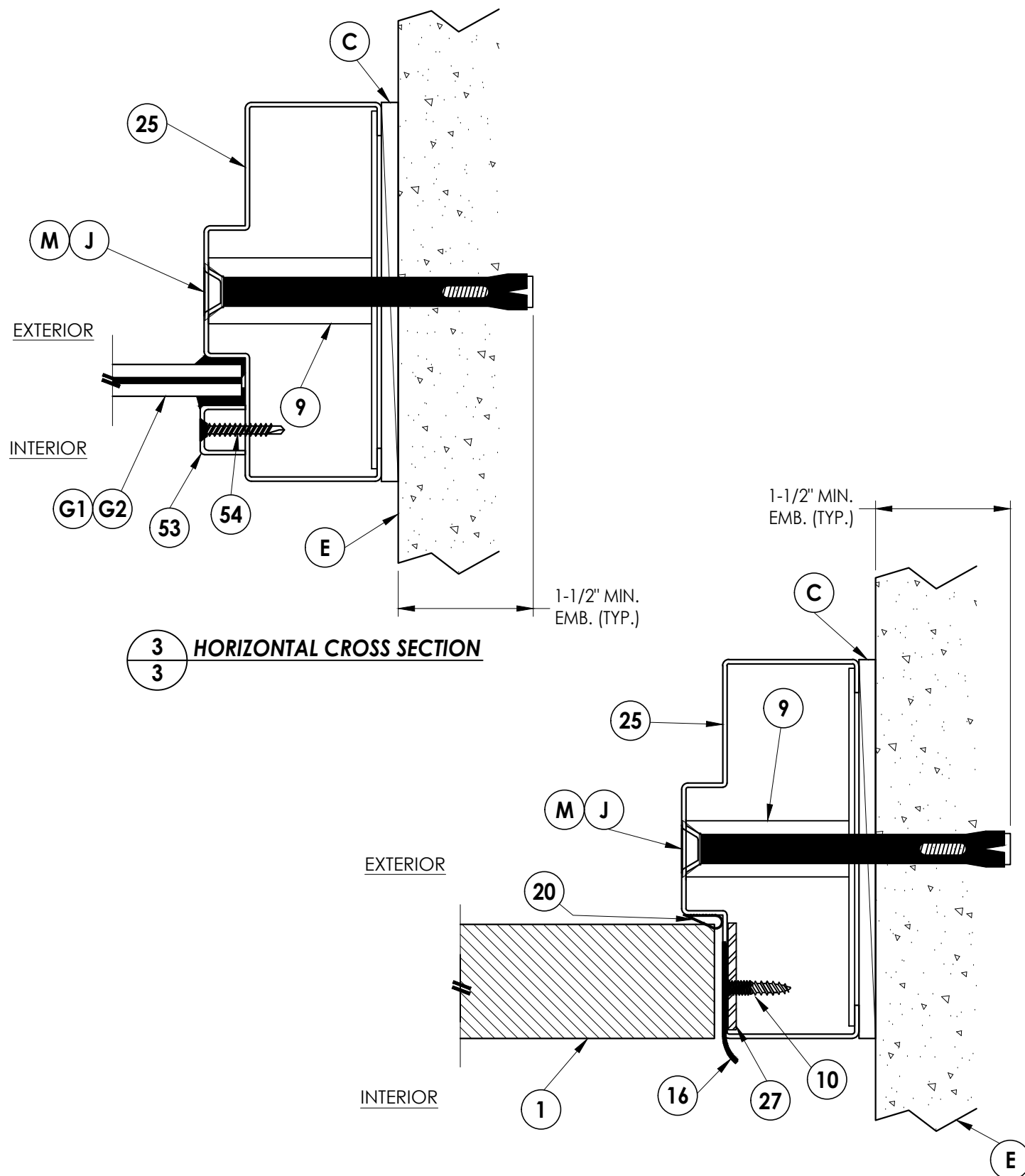
NOTE: ALL WELDING TO CONFORM w/ AMERICAN WELDING SOCIETY, ANSI/AWS AS PER FBC SECTION 2214.3.4.

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		BY
			REVISIONS
DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.5			
SHEET 2 OF 8			



1 3 **HORIZONTAL CROSS SECTION**

Inswing shown
Outswing also approved



2 HORIZONTAL CROSS SECTION
3 Inswing shown
 Outswing also approved

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		
				BY

DATE: 11/3/08

SCALE: *N.T.S.*

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.:

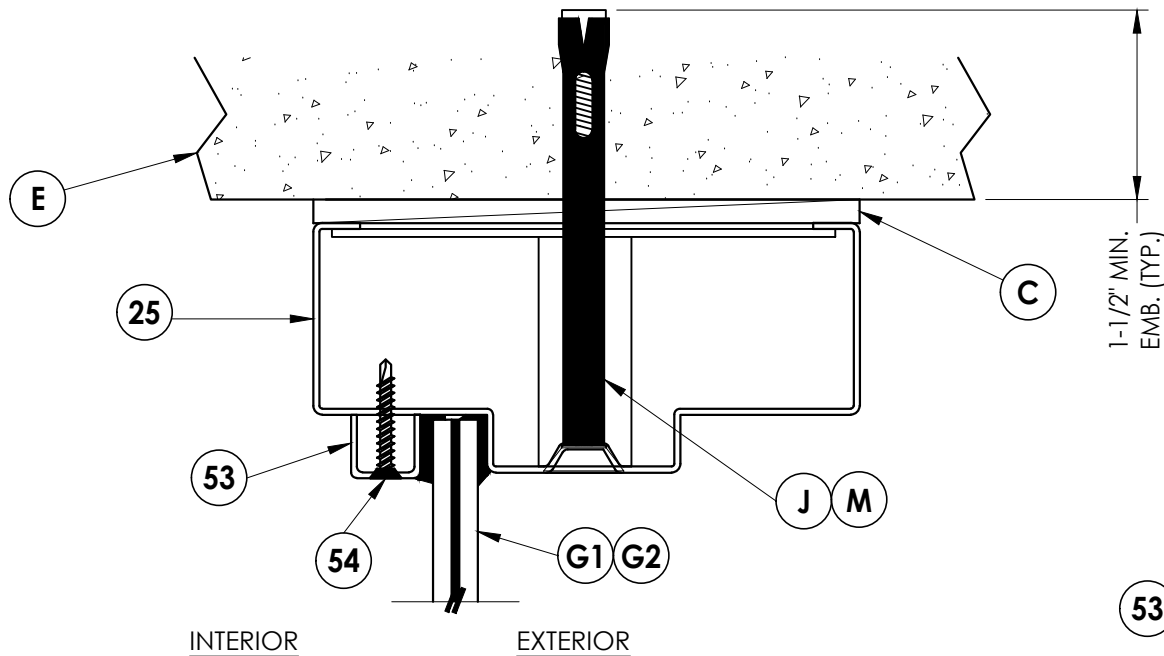
FL-12186.5

SHEET 3 OF 8

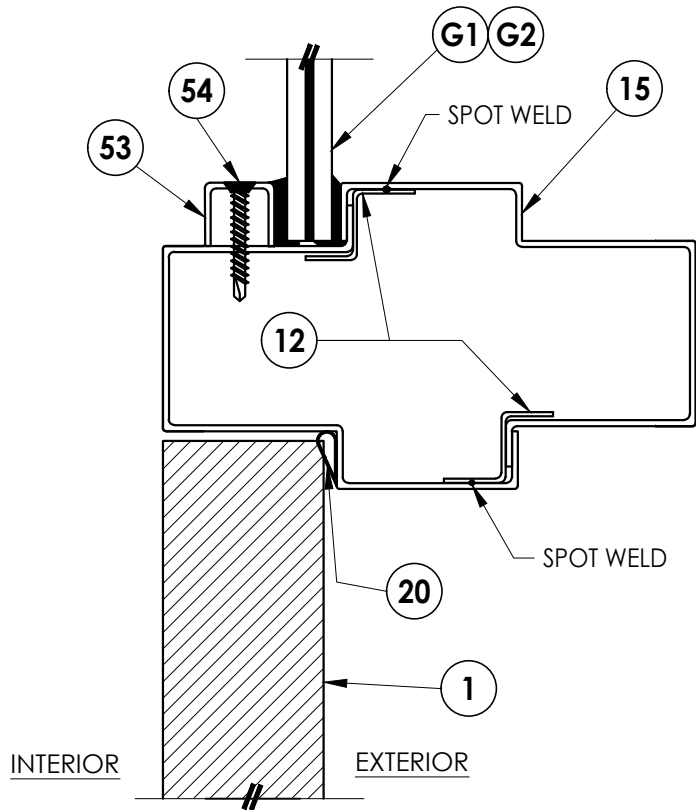
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R^{gW} BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

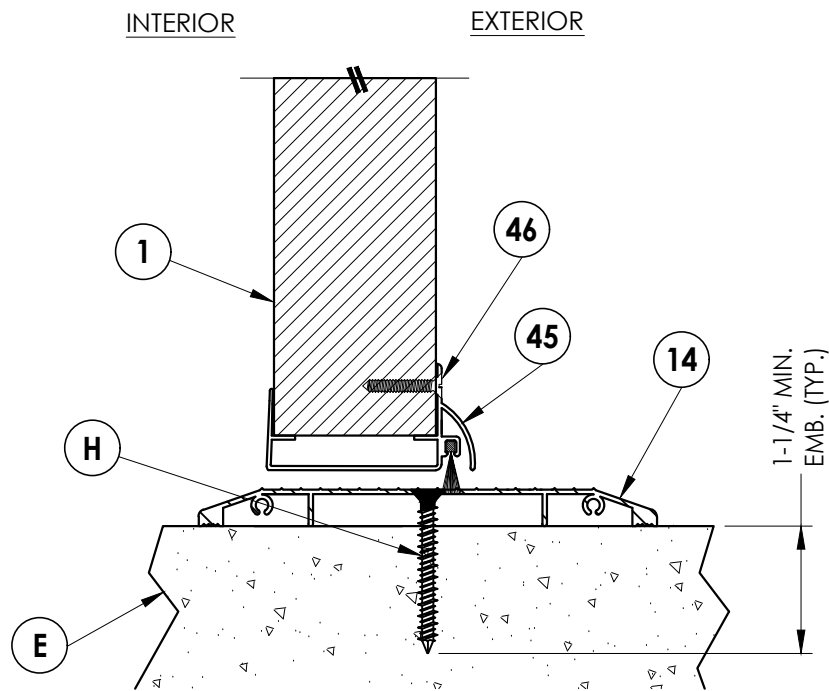
G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



1
4 **VERTICAL CROSS SECTION**
Inswing shown
Outswing also approved



2
4 **VERTICAL CROSS SECTION**
Inswing shown
Outswing also approved



3
4 **VERTICAL CROSS SECTION**
Optional inswing shown

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

		LFS	FBC	LFS	FBC	DAC	FBC	LFS	FBC	JK	BY
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

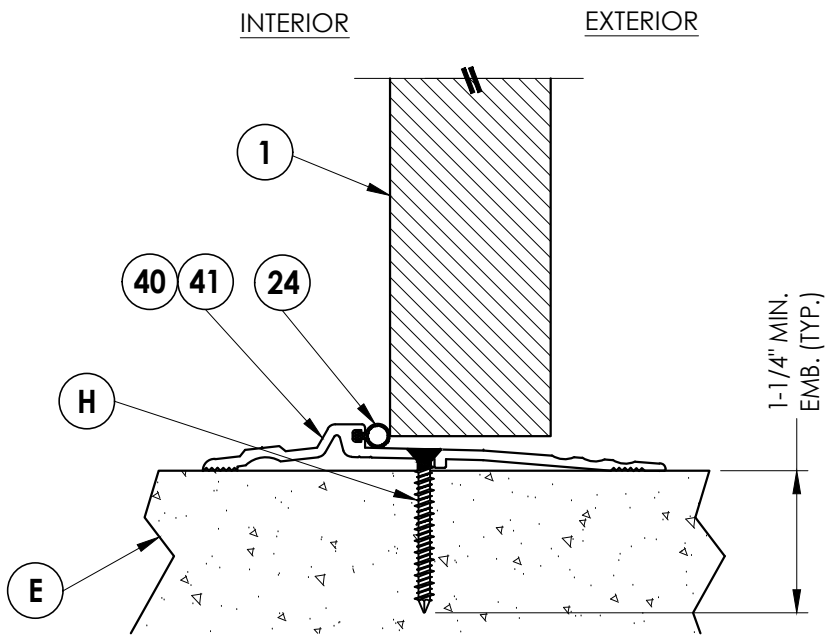
CHK. BY: LFS

DRAWING NO.:

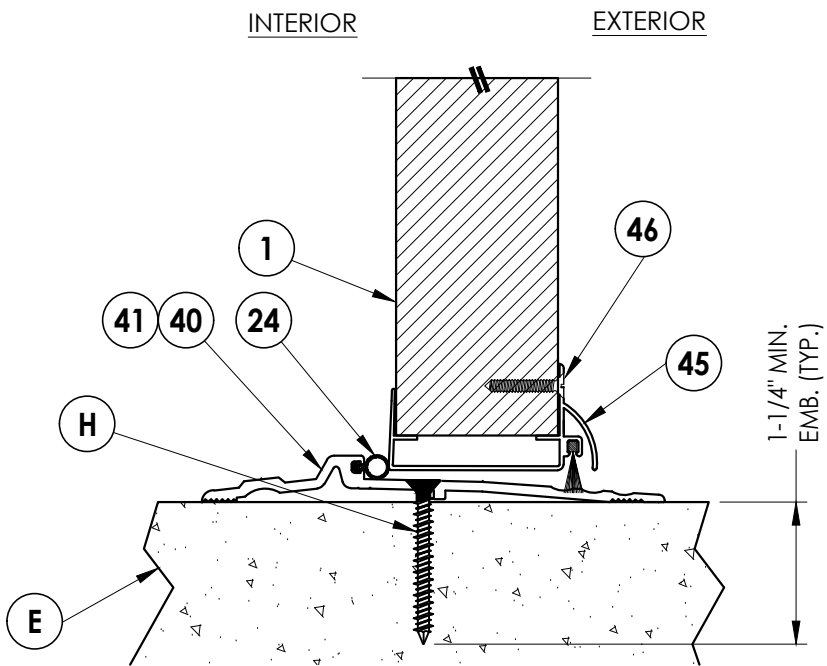
FL-12186.5

SHEET 4 OF 8

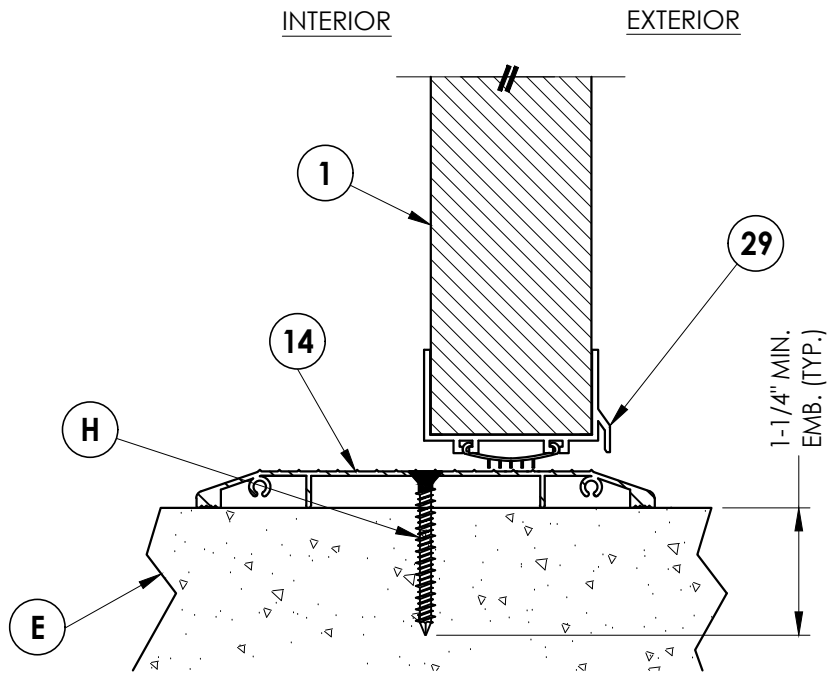
G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



1
5 VERTICAL CROSS SECTION
Optional outswing shown



2
5 VERTICAL CROSS SECTION
Optional Outswing shown



3
5 VERTICAL CROSS SECTION
Optional Outswing shown

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

RW

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:		VERTICAL CROSS SECTIONS	
		LFS	FBC
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.

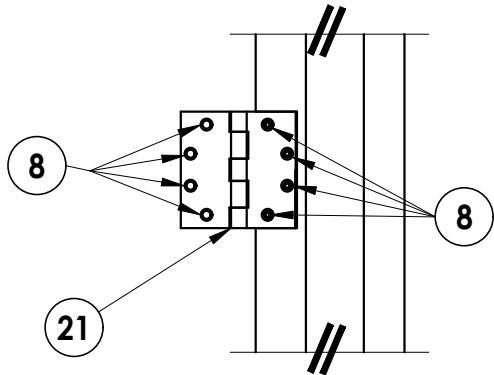
DWG. BY: AL

CHK. BY: LFS

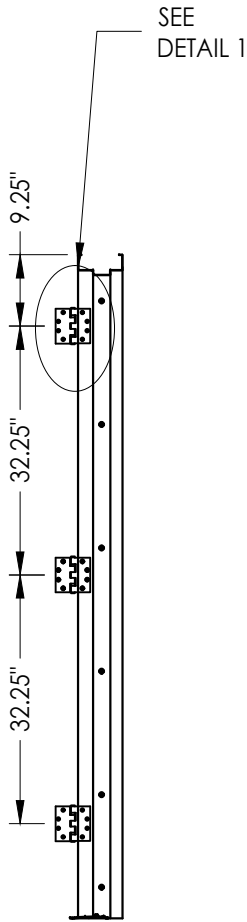
DRAWING NO.: FL-12186.5

SHEET 5 OF 8

G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg

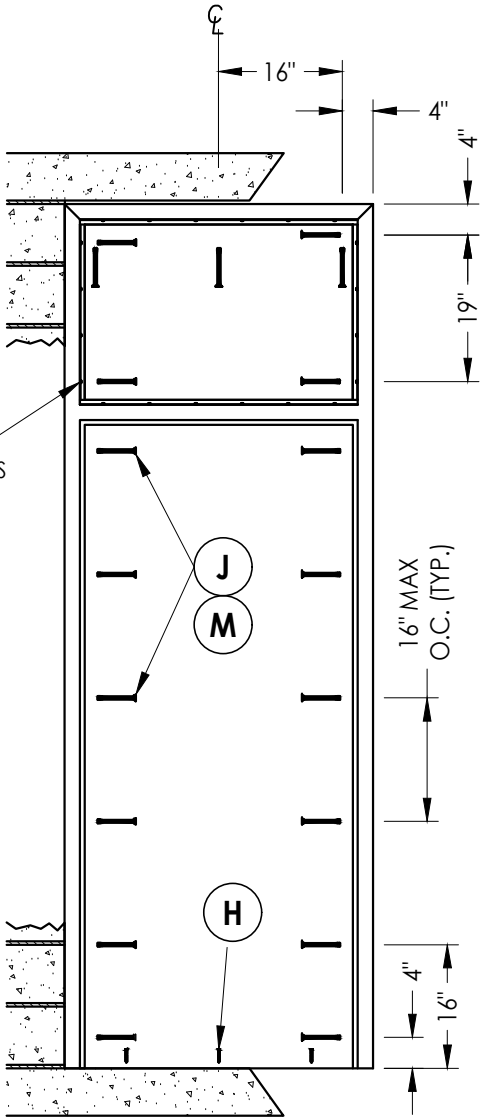


DETAIL 1

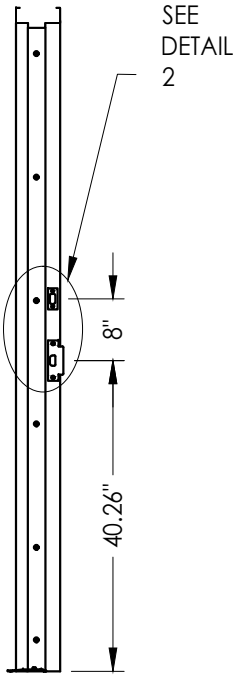


HINGE JAMB

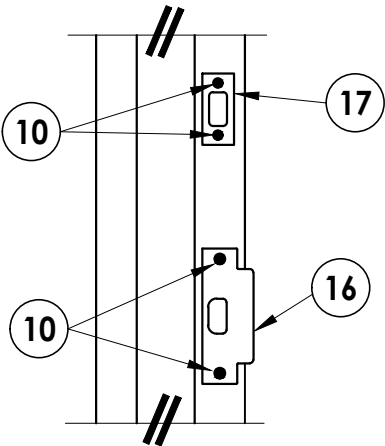
ITEMS #52 & #54 GLASS
STOP RETAINING SCREWS
3" FROM CORNER &
6" MAX O.C. (TYP.)



FRAME ANCHORING



STRIKE JAMB



DETAIL 2

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"

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

NO.	DATE	REVISIONS			
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	
				BY	

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.: FL-12186.5

SHEET 6 OF 8

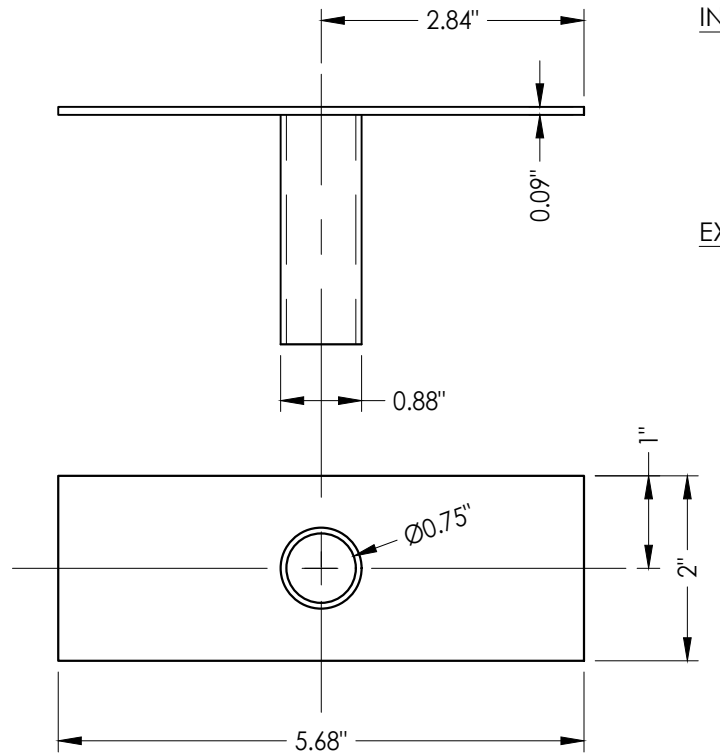
PRODUCT:	MMI
	"N" STEEL DOOR
PART OR ASSEMBLY:	ANCHORING DETAILS

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

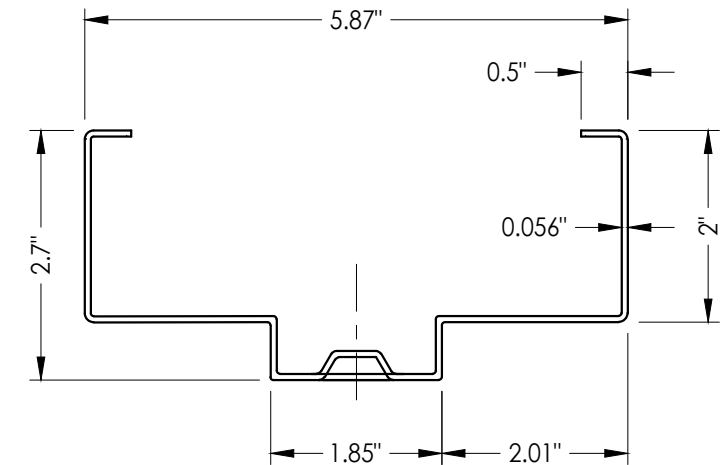
RW

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

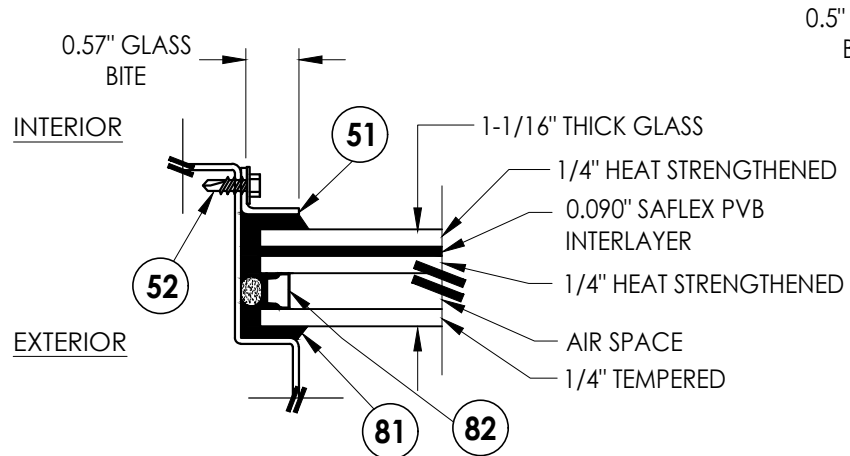
G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



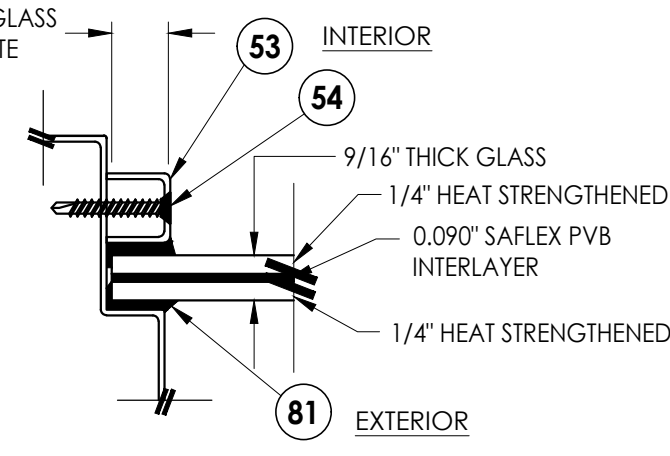
9 **TUBE ANCHOR**



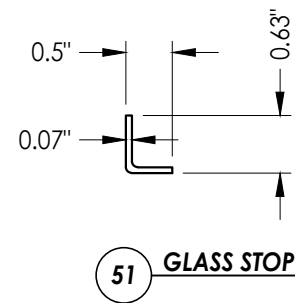
25 **HOLLOW METAL FRAME**



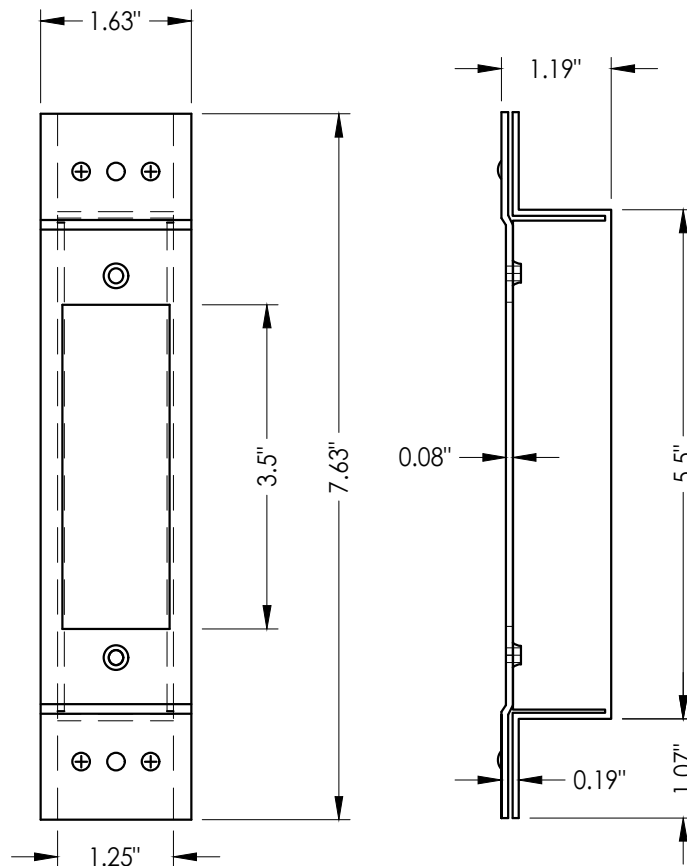
G1 **GLAZING DETAIL**



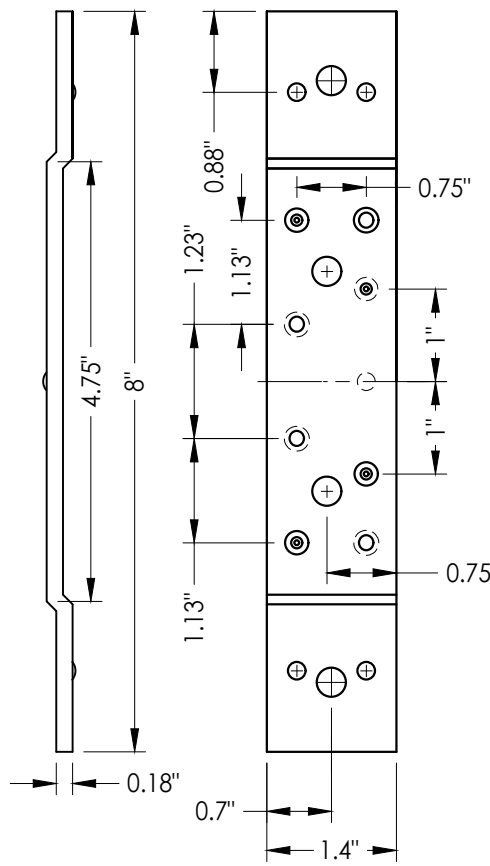
G2 **GLAZING DETAIL**
9/16" Monolithic glass
Produced by Old Castle



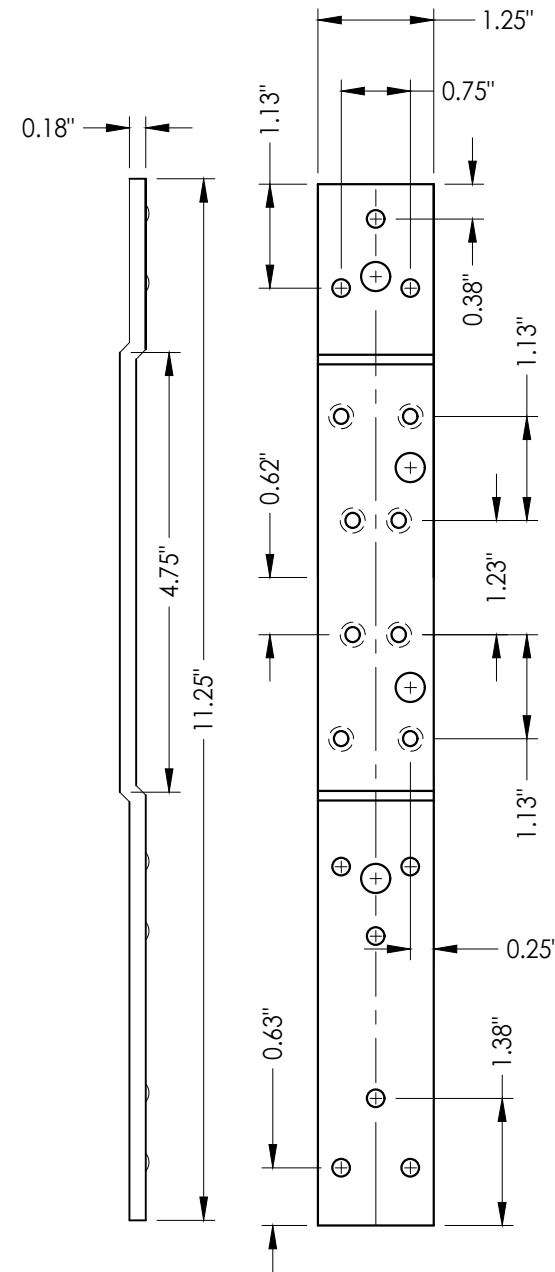
51 **GLASS STOP**



27 **LATCH STRIKE REINFORCEMENT**



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

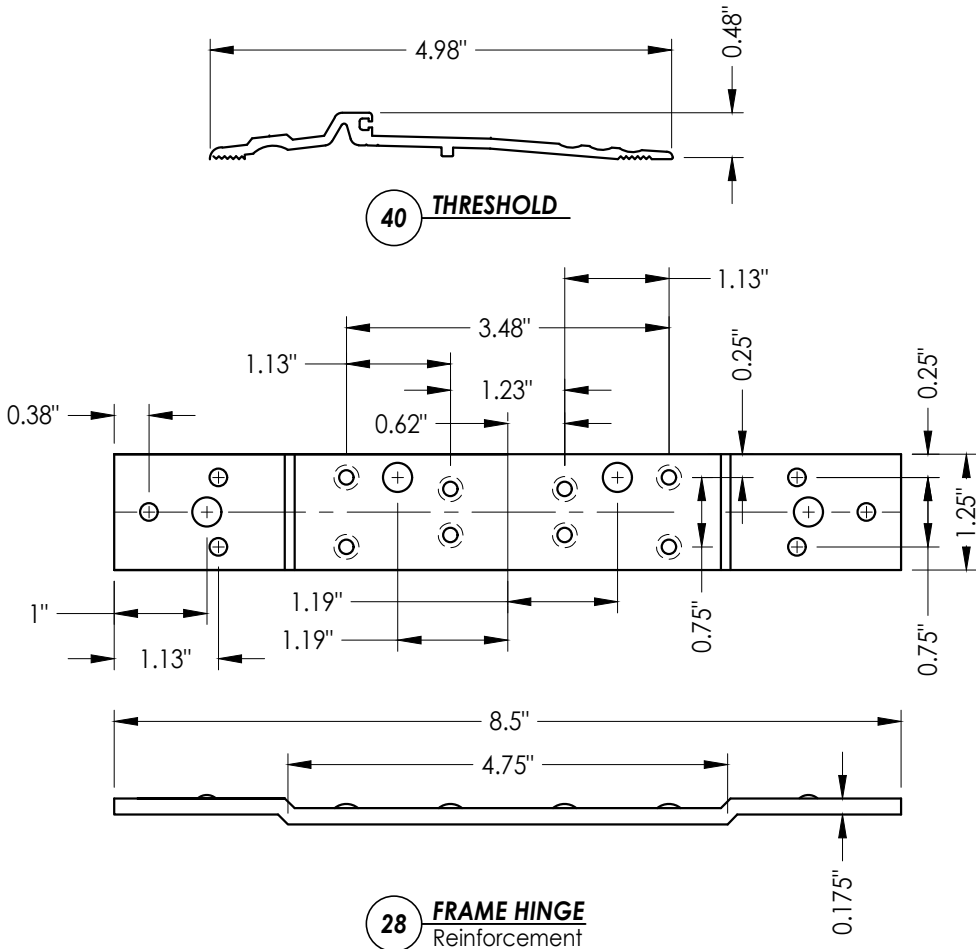


22 **STANDARD (LONG) DOOR HINGE**
Reinforcement top hinge

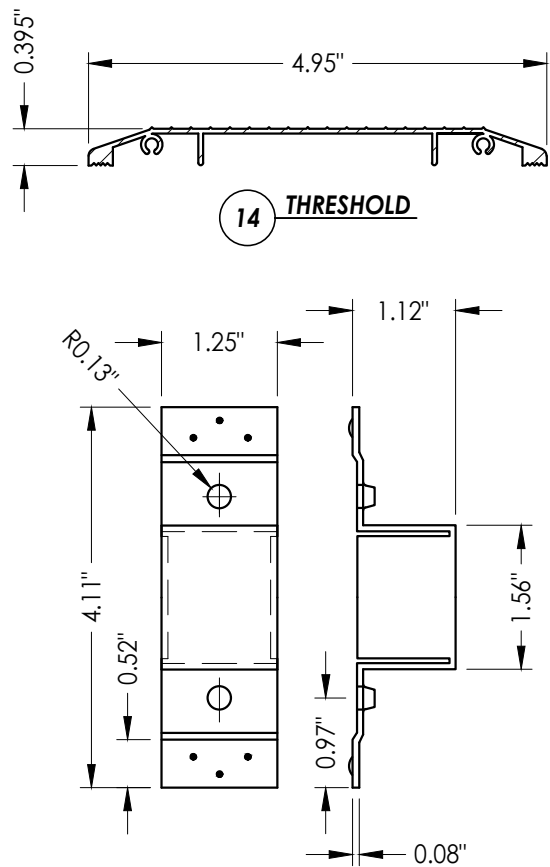
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: MMI "N" STEEL DOOR				PART OR ASSEMBLY: GLAZING DETAILS & COMPONENTS			
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	REVISIONS		
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			
NO.	DATE			BY			
DATE: 11/3/08							
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-12186.5							
SHEET 7 OF 8							

G:\2023 FBC Drawings Z-20-26Metal Mfg Industries\FL-12186.R5\12186.1-8.dwg

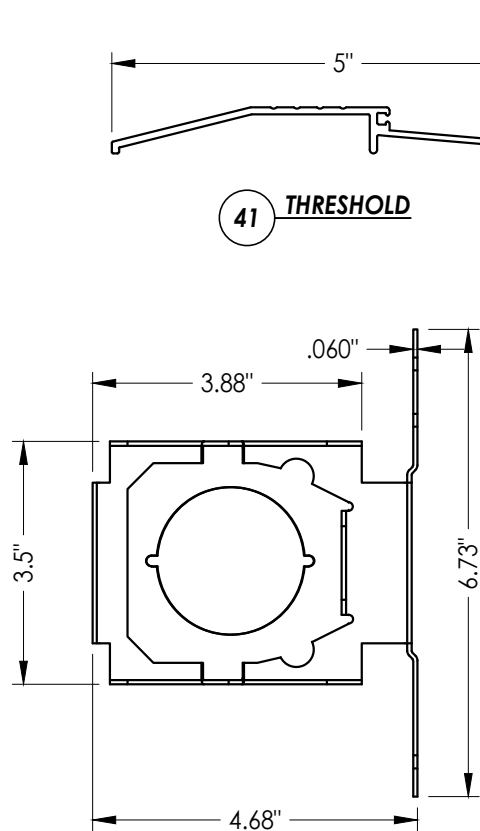
BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL	25	FRAME 5-3/4" X 2" MIN. (0.056" THK) BY MMI	STEEL
1	"N" OPAQUE STEEL DOOR PANEL	-	27	LATCH STRIKE REINFORCEMENT	STEEL
2	DOOR SKIN (0.042" THK. STEEL, Fy = 40,300 PSI MIN.)	STEEL	28	FRAME HINGE REINFORCEMENT	STEEL
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	29	COLUMBIA DOOR BOTTOM SWEEP #2580	ALUMINUM
4	DOOR TOP & BOTTOM CLOSER	STEEL	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
5	LOCK BOX REINFORCEMENT	STEEL	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
6	CLOSER REINFORCEMENT	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
8	#12-24 x 1/2" SELF TAPPER	STEEL	46	#6 X 3/4" PHILIPS HEAD SMS	STEEL
9	TUBE ANCHOR	STEEL	51	L-CHANNEL GLASS STOP	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	52	#8 X .5" HH SELF DRILLING SCREW	STEEL
12	MULLION Z BRACKET	STEEL	53	U-CHANNEL GLASS STOP	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	54	#8 X 1.25" PFH SMS	STEEL
15	MULLION MIN. (0.056" THK) BY MMI	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
16	ANSI LATCH STRIKE	STEEL	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
17	DEADBOLT STRIKE	STEEL	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
20	WEATHER-STRIP	NEOPRENE	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
			81	DOW 995 STRUCTURAL SILICONE	SILICONE
			82	GLASS SPACER	ALUMINUM



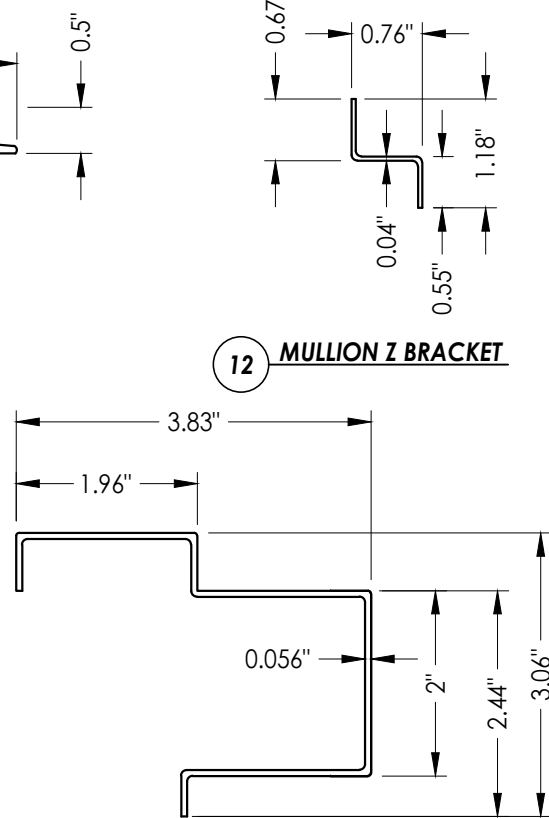
28 FRAME HINGE Reinforcement



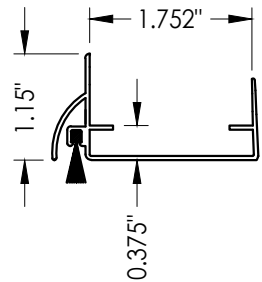
19 DEADBOLT STRIKE REINFORCEMENT



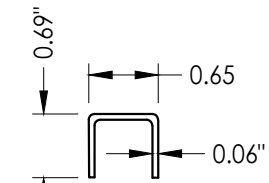
5 LOCK BOX REINFORCEMENT



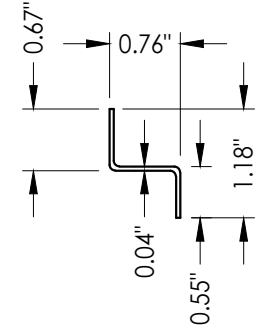
15 MULLION



45 DOOR SWEEP



53 GLASS STOP



12 MULLION Z BRACKET

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:

"N" STEEL DOOR,

PART OR ASSEMBLY:

BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
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
		BY

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.:

FL-12186.5

SHEET 8 OF 8