



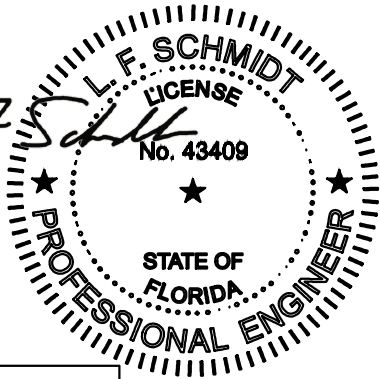
PRIV. DE RIO SANTIAGO #30
COL. LA RAZA
SOLEDAD DE GRACIANO SANCHEZ
SAN LUIS POTOSI, C.P. 78433

'N' SERIES
SINGLE OPAQUE DOOR
"IMPACT"
OUTSWING

Digitally signed by
Lyndon F Schmidt
Date: 2026.07.23
16:52:17 -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
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must be verified on any electronic copies.

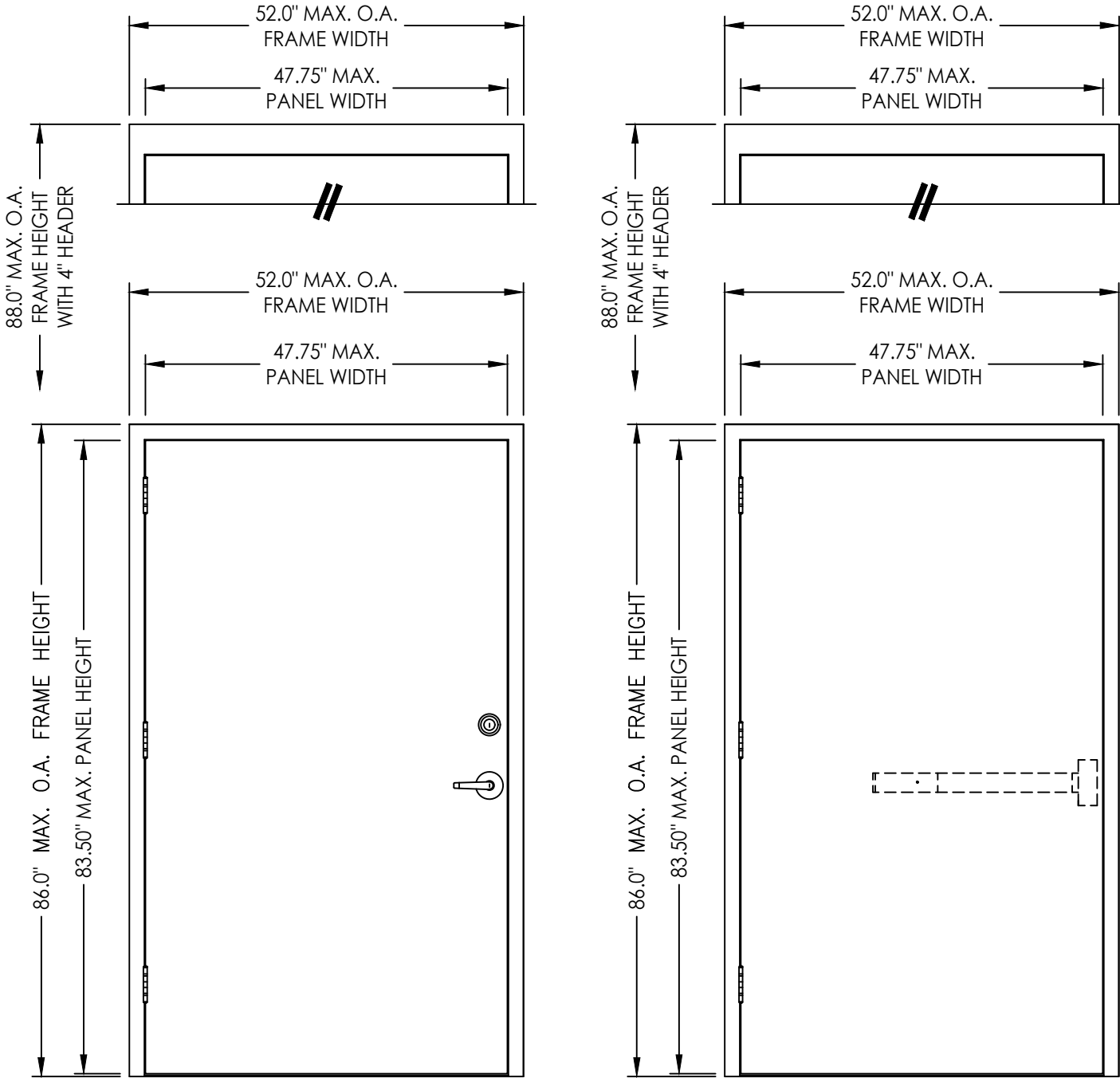
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



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. The "N" door achieves a Class III stiffness classification per Section 8.2.2 of ANSI A250.13.
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 elevation, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Horizontal cross sections
5	Horizontal cross sections
6	Vertical cross sections
7	Buck and frame anchoring
8	Anchoring details
9	Components
10	Bill of materials and components



"N" DOOR

"N" DOOR

DOOR TYPE	FRAME TYPE	OVERALL FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
N	2" HEAD	52.0" x 86.0"	DESIGN LATCH & DEADBOLT OR VONDUPRIN RIM PANIC HH99EO	+55.0	-55.0
	4" HEAD	52.0" x 88.0"			

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

PRODUCT:
MMI
"N" PANELS "IMPACT"

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

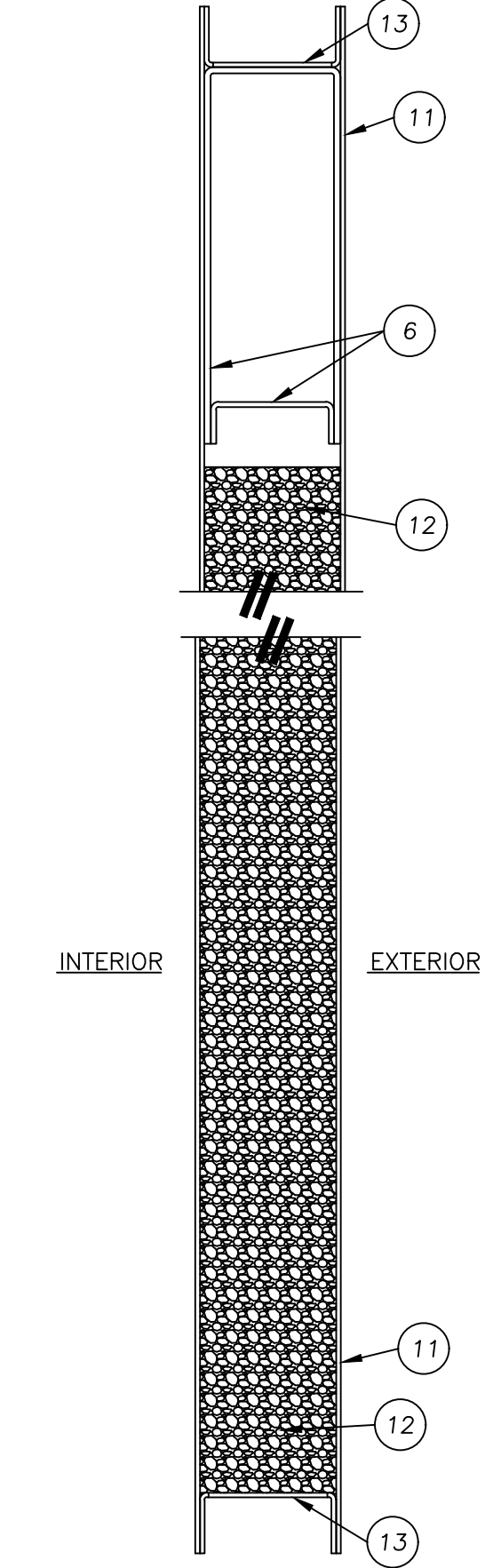
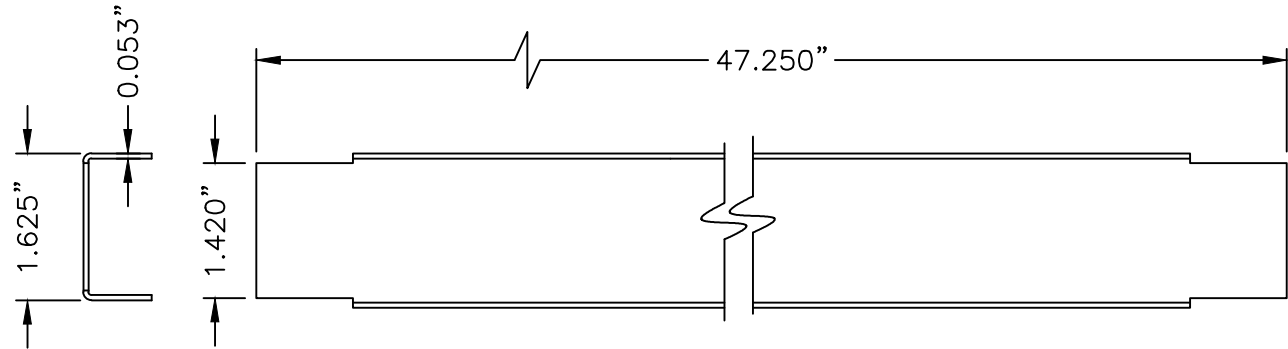
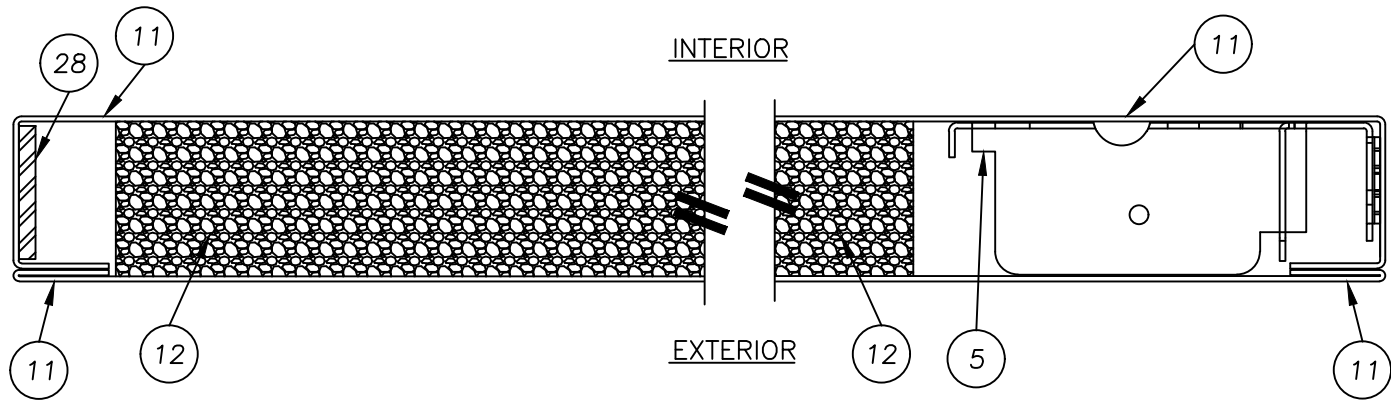
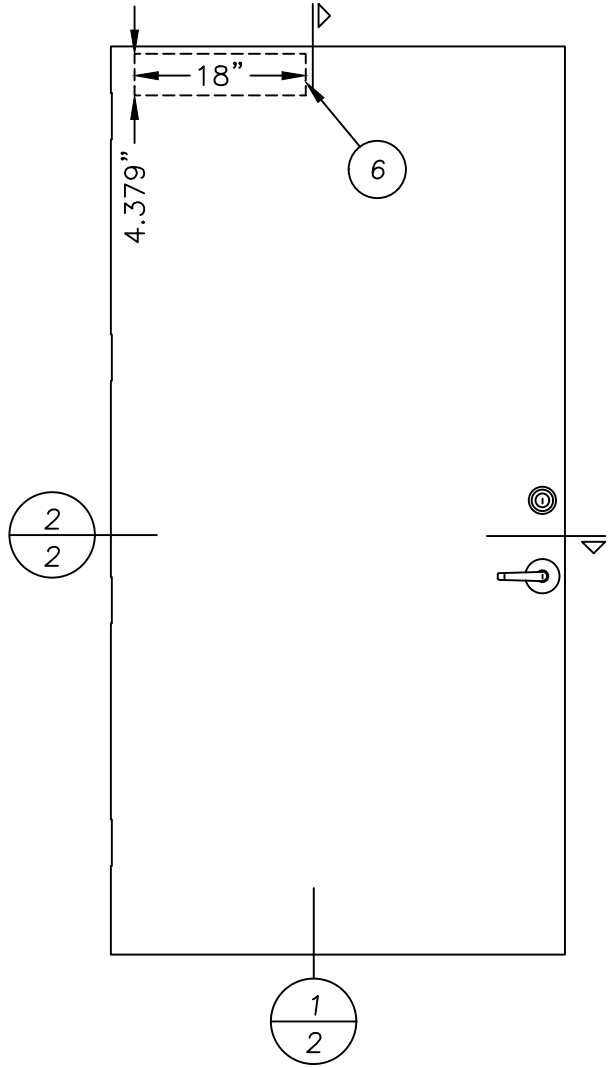
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4	7/10/23	UPDATE TO 8TH ED. (2023)	FBC
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC
2	7/13/17	UPDATE TO 6TH ED. (2017)	FBC
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC
NO.	DATE	REVISIONS	

DATE: 02/18/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-12161.3
SHEET 1 OF 10

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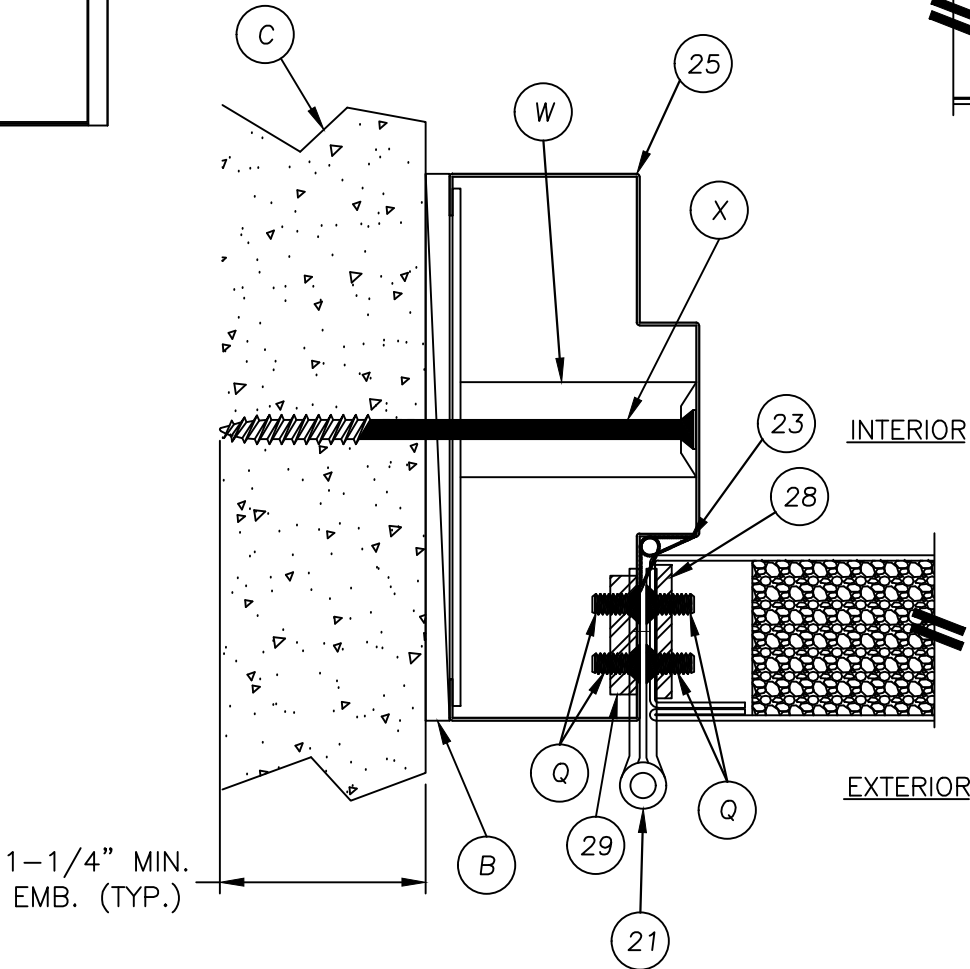
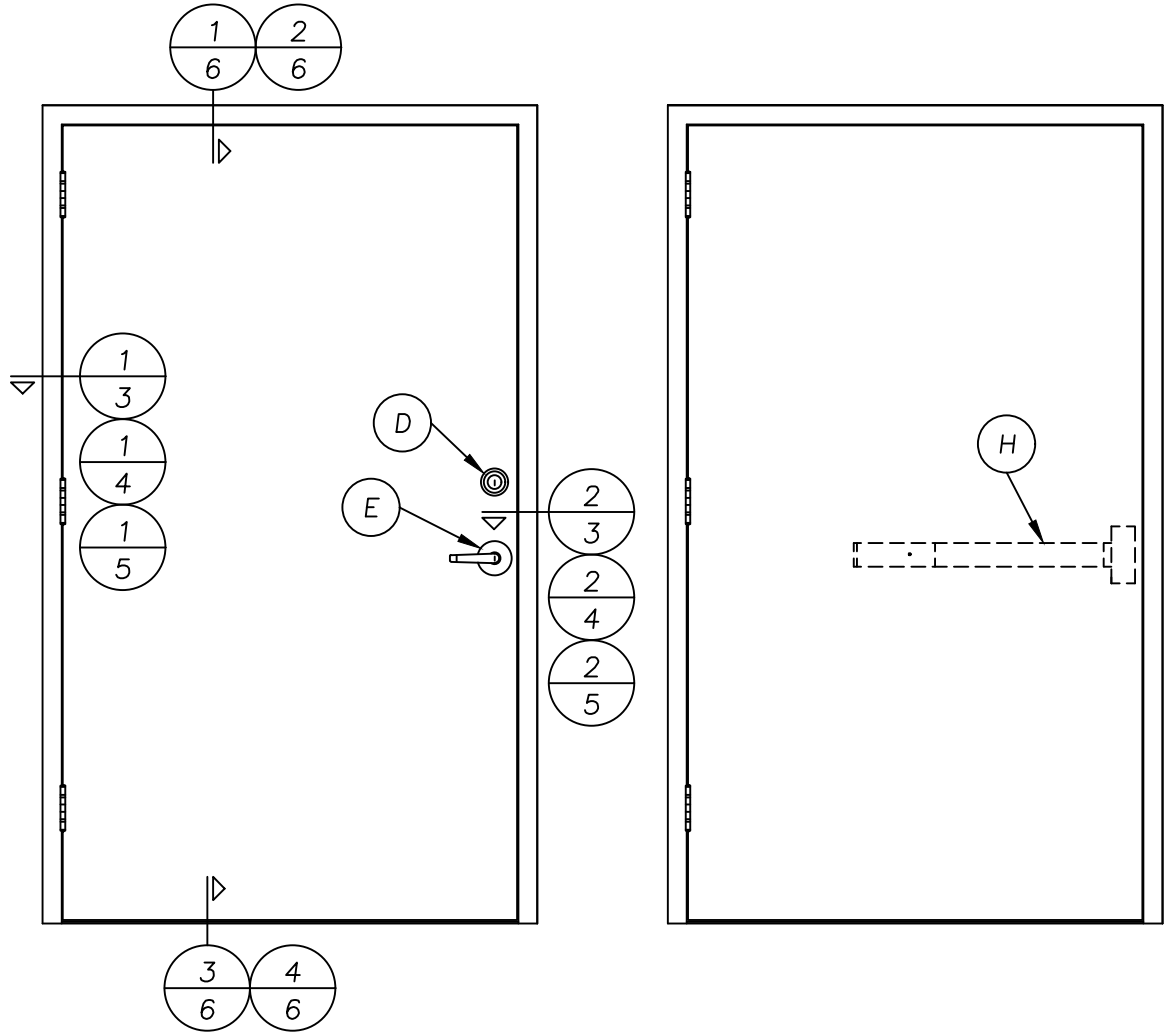
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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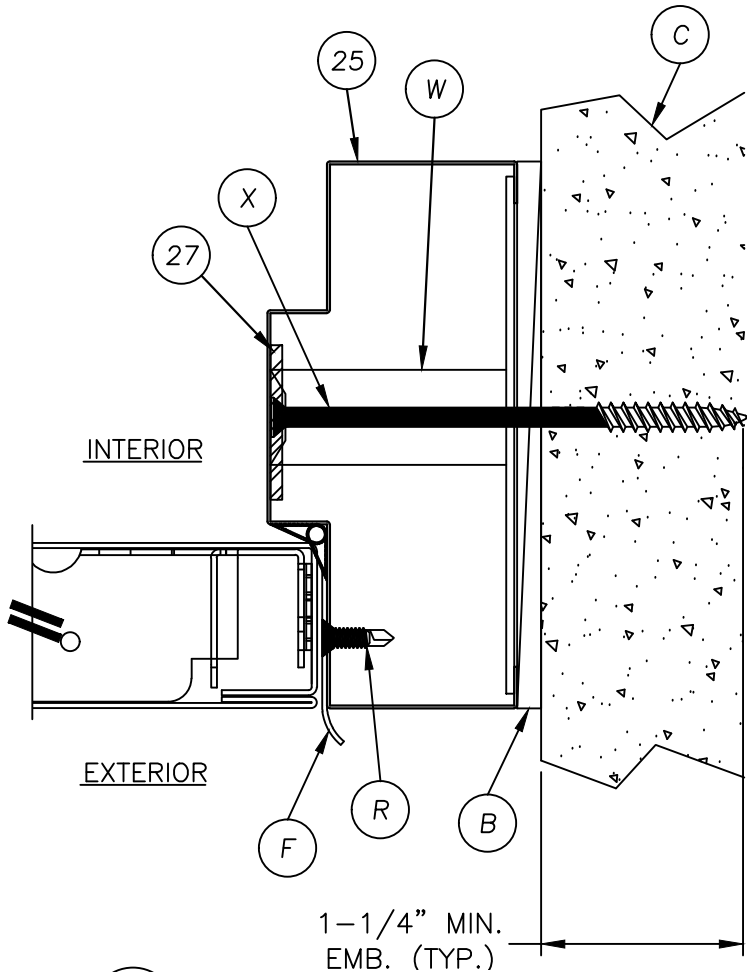


PRODUCT:				MMI "N" PANELS "IMPACT"				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PART OR ASSEMBLY:				DOOR PANEL DETAILS				R ^W			
DATE: 02/18/09		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS		DRAWING NO.: FL-12161.3		SHEET 2 OF 10	
5		7/01/26		UPDATE TO 9TH ED. (2026)		FBC		LFS			
4		7/10/23		UPDATE TO 8TH ED. (2023)		FBC		LFS			
3		7/30/20		UPDATE TO 7TH ED. (2020)		FBC		LFS			
2		7/13/17		UPDATE TO 6TH ED. (2017)		FBC		LFS			
1		10/14/16		UPDATE TO 5TH ED. (2014)		FBC		JK			
NO.		DATE						BY			
REVISIONS											

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1
3
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@ HINGE
SHOWN WITH TUBE ANCHOR

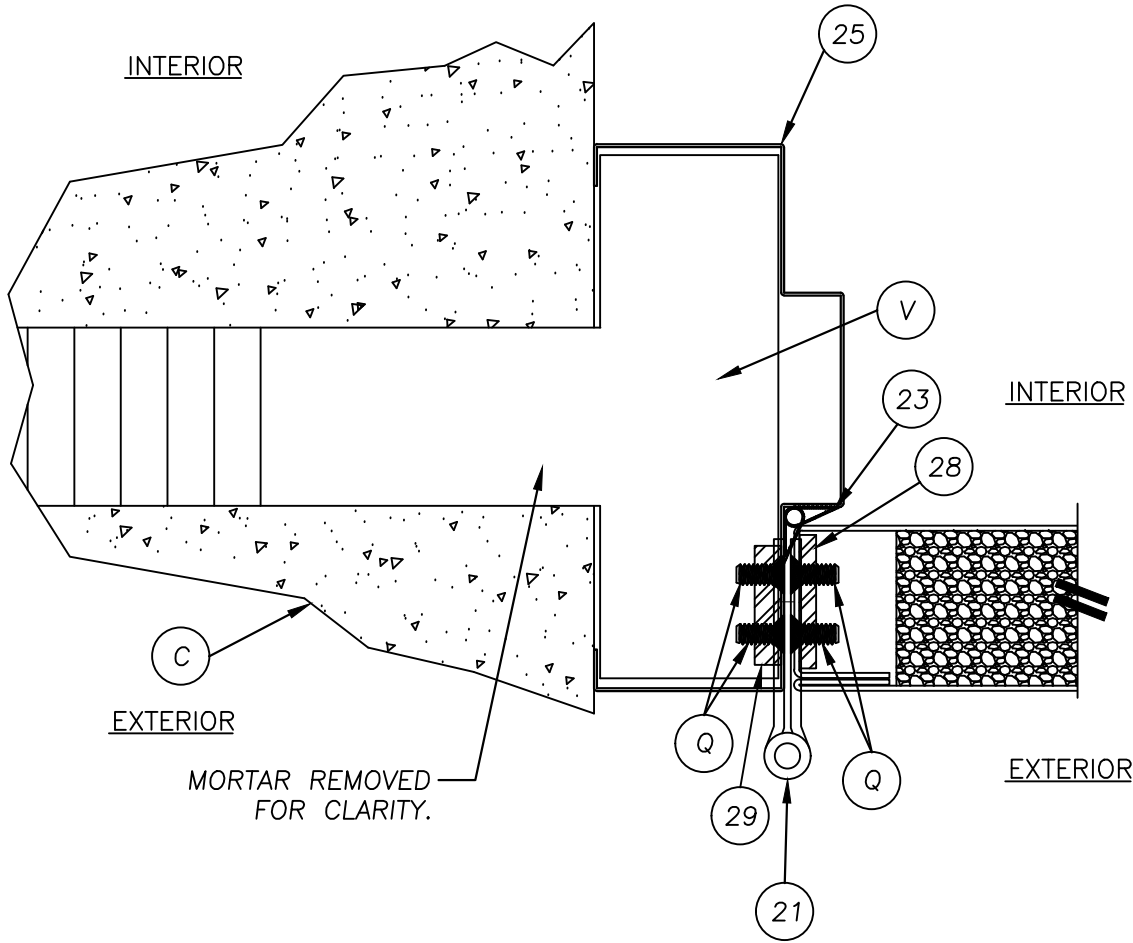


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3
HORIZONTAL CROSS SECTION
@ HINGE
SHOWN WITH TUBE ANCHOR

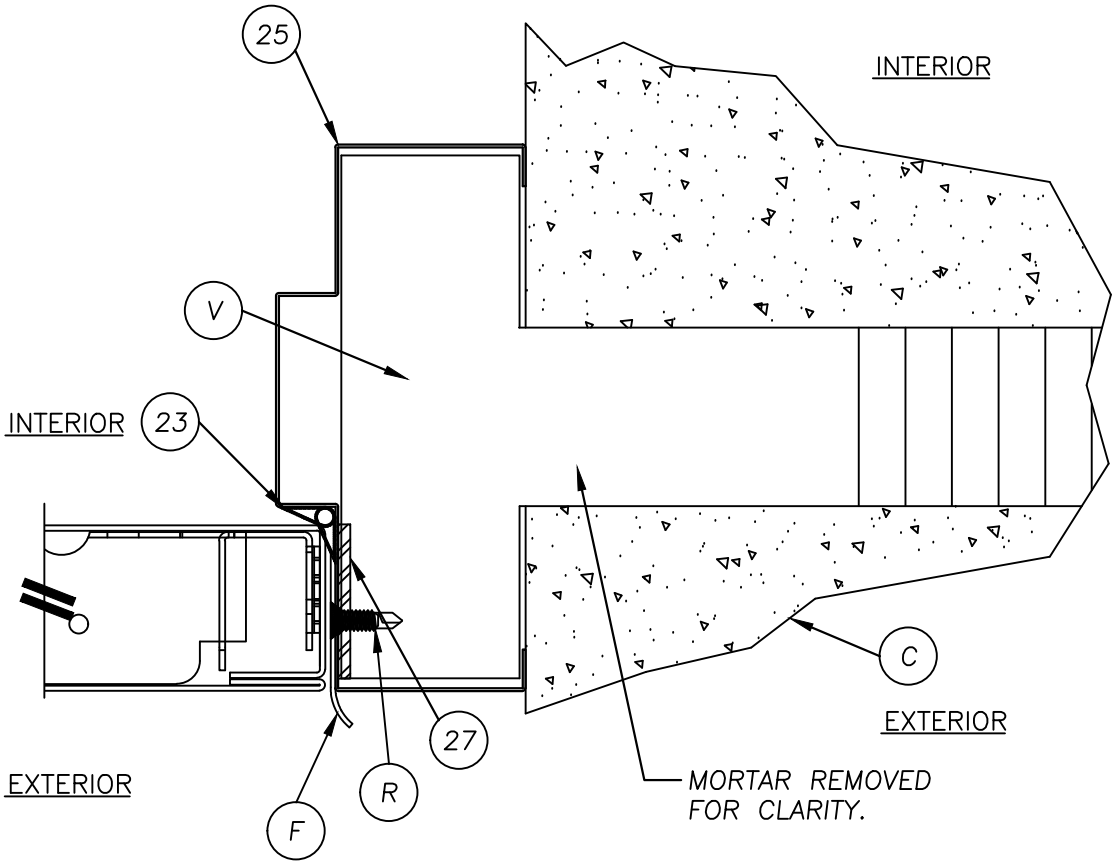
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PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS			
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1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK	
NO.	DATE			BY	
REVISIONS					
DATE: 02/18/09					
SCALE: N.T.S.					
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CHK. BY: LFS					
DRAWING NO.: FL-12161.3					
SHEET 3 OF 10					

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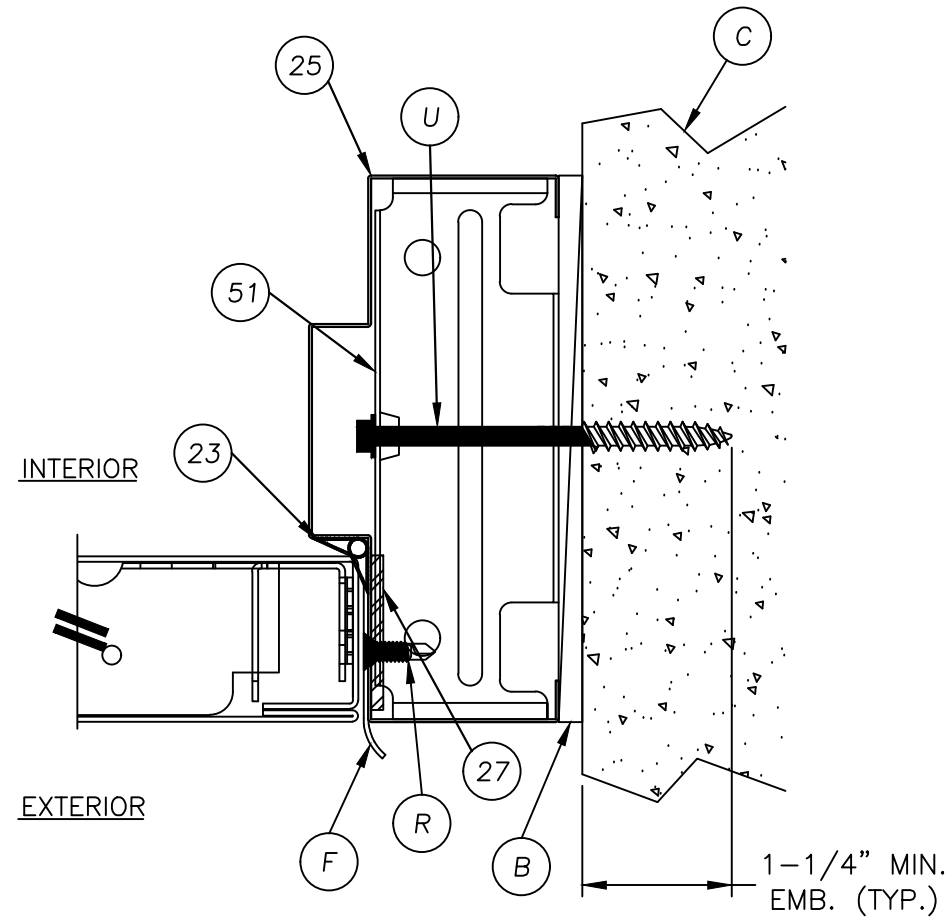
1 HORIZONTAL CROSS SECTION
4 @ LATCH
SHOWN WITH TEE ANCHOR



2 HORIZONTAL CROSS SECTION
4 @ LATCH
SHOWN WITH TEE ANCHOR

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1 HORIZONTAL CROSS SECTION
5 @ LATCH
SHOWN WITH UNIVERSAL ANCHOR



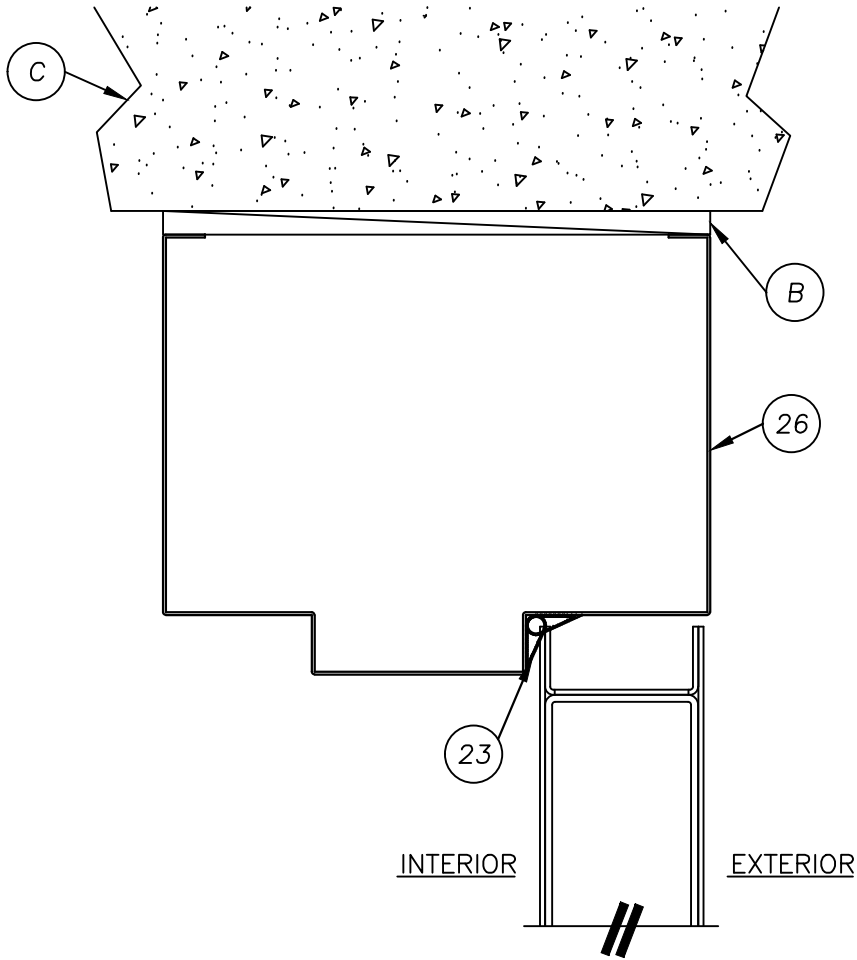
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5 @ LATCH
SHOWN WITH UNIVERSAL ANCHOR

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

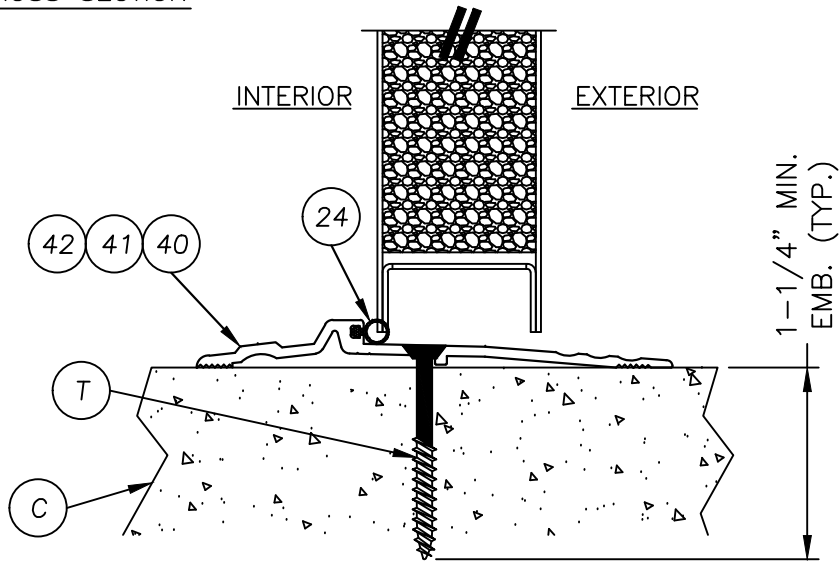
SHEET 5 OF 10

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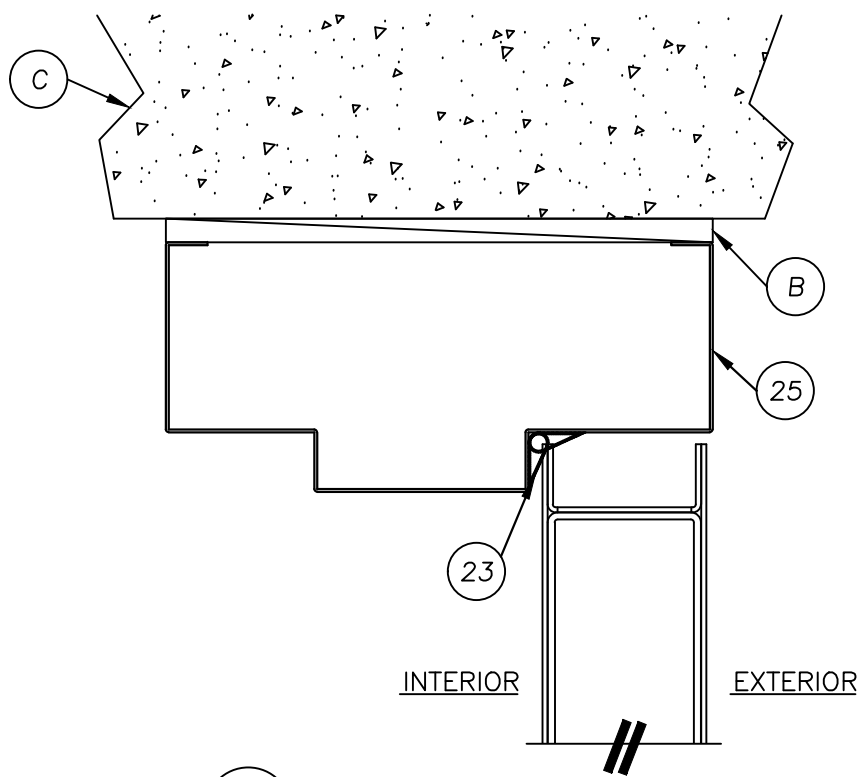
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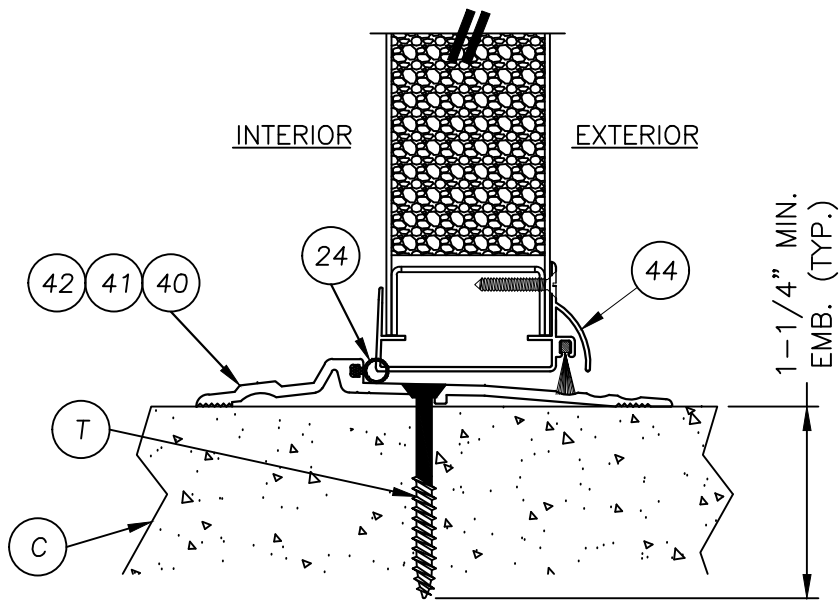
1
6 VERTICAL CROSS SECTION
@ HEAD



3
6 VERTICAL CROSS SECTION
@ THRESHOLD



2
6 VERTICAL CROSS SECTION
@ HEAD



4
6 VERTICAL CROSS SECTION
@ THRESHOLD

Documents Prepared By:
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P.E. No. 43409

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PRODUCT:
MMI
"N" PANELS "IMPACT"

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC
4	7/10/23	UPDATE TO 8TH ED. (2023)	FBC
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC
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1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC

DATE: 02/18/09

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-12161.3

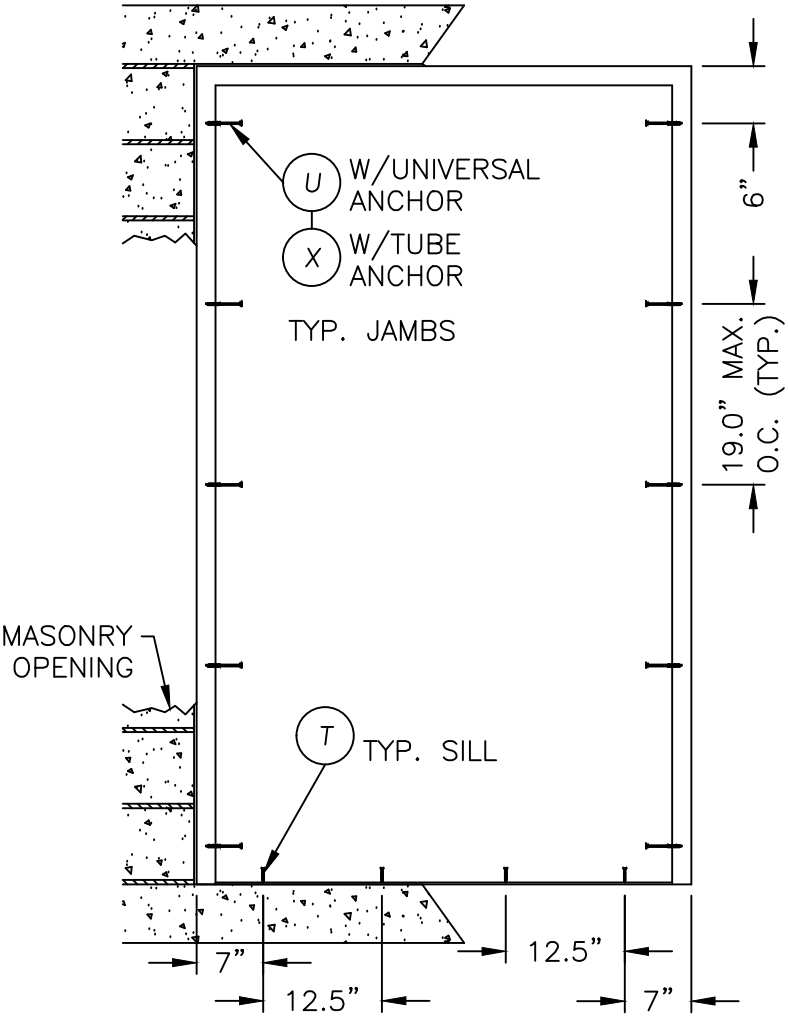
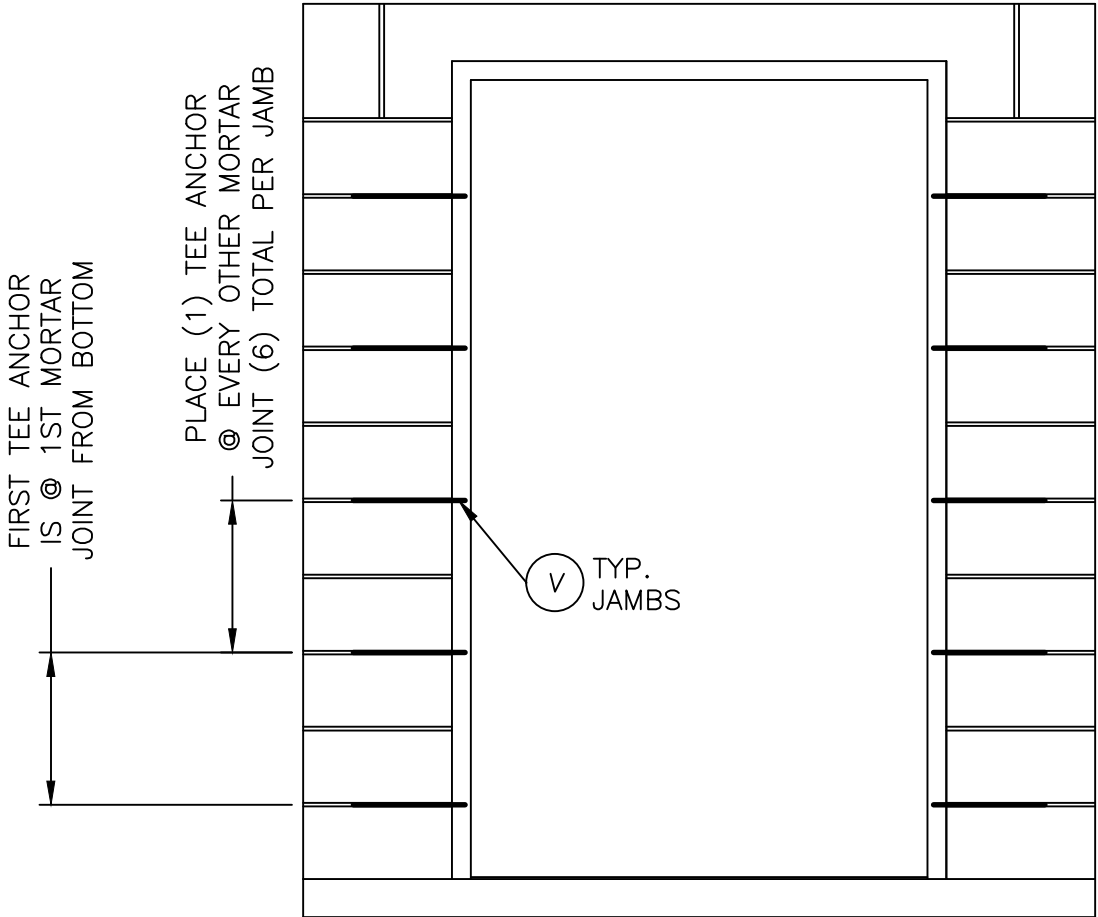
SHEET 6 OF 10

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CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. 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"
DeWALT ULTRACON®	1/4"	1-1/4"	2-1/2"	4"
DeWALT ULTRACON®	5/16"	1-1/4"	3-1/8"	5"



Documents Prepared By:
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P.E. No. 43409

PRODUCT:
MMI
"N" PANELS "IMPACT"

PART OR ASSEMBLY:
BUCK AND FRAME
ANCHORING

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

47/10/23UPDATE TO 8TH ED. (2023) FBC

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

27/13/17UPDATE TO 6TH ED. (2017) FBC

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

NO. DATE

REVISIONS

DATE: 02/18/09

SCALE: N.T.S.

DWG. BY: JK

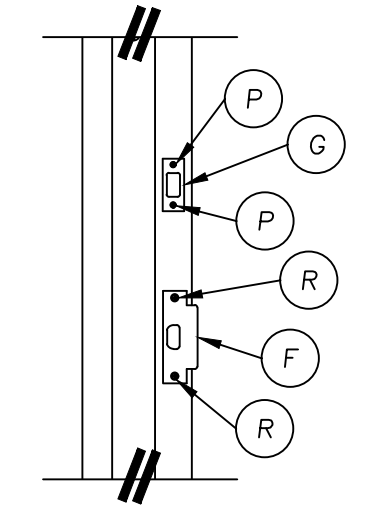
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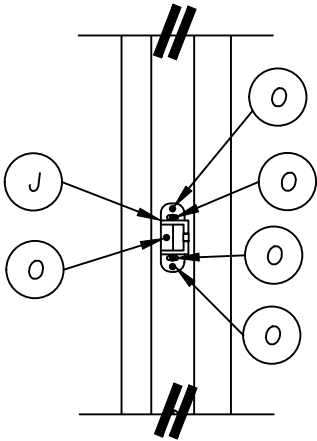
SHEET 7 OF 10

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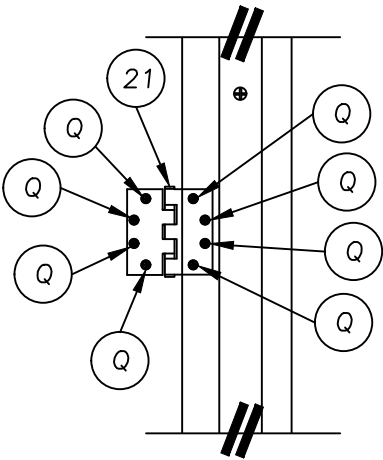
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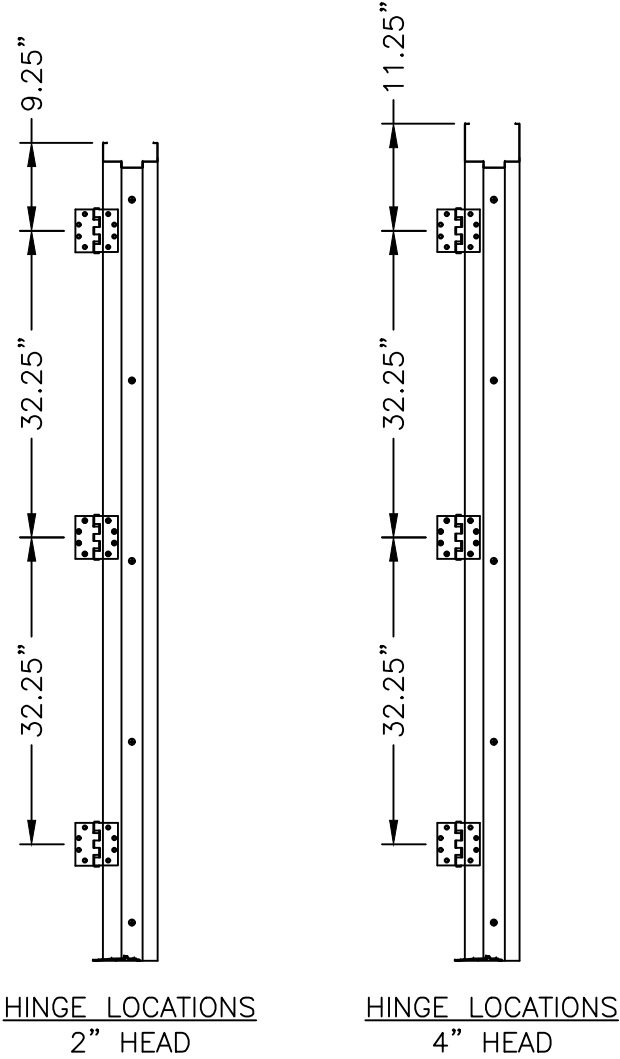
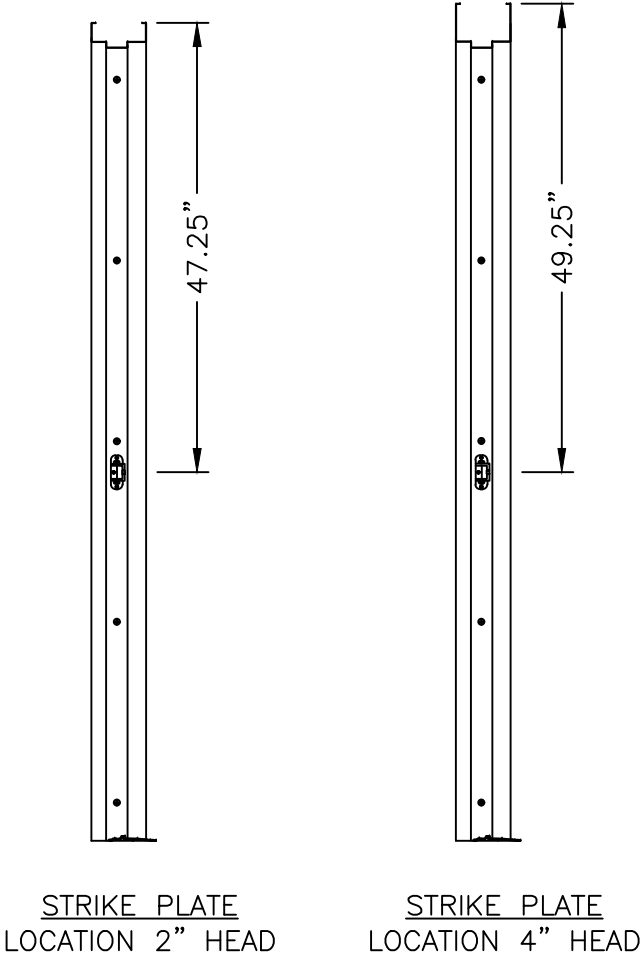
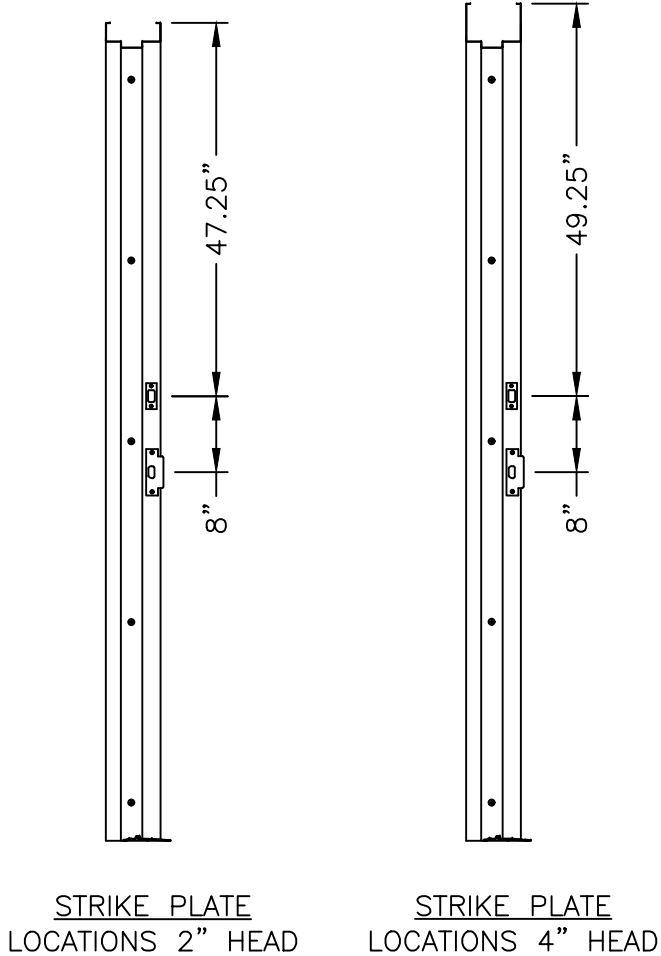
STRIKE PLATE DETAIL
ANSI STRIKE & DEADBOLT



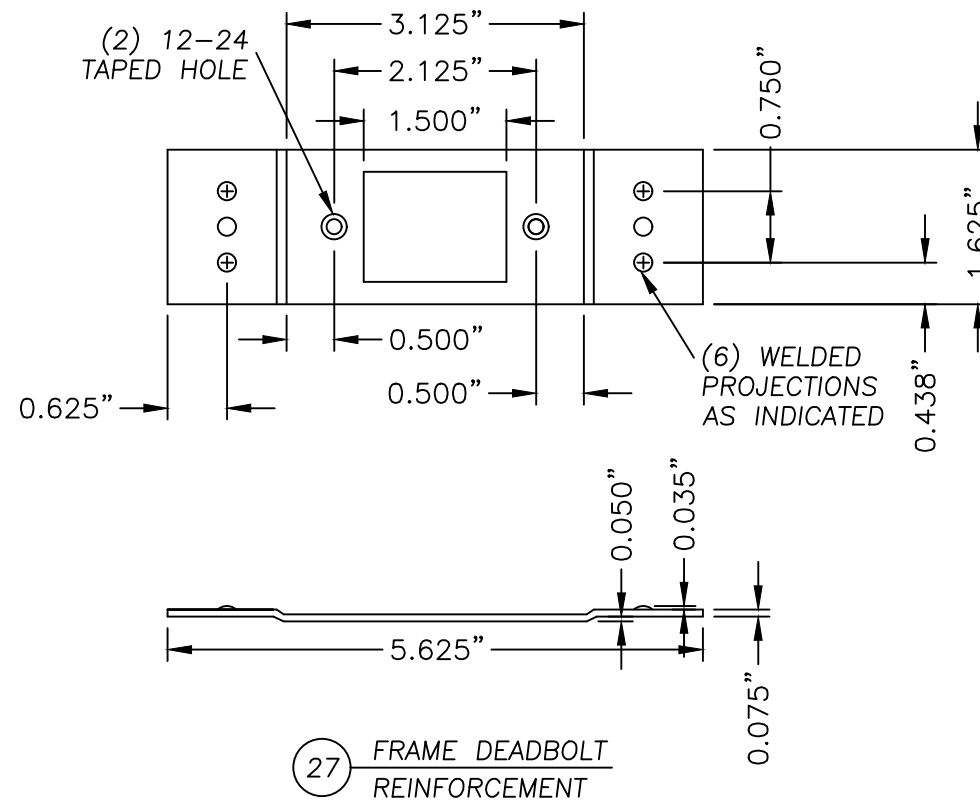
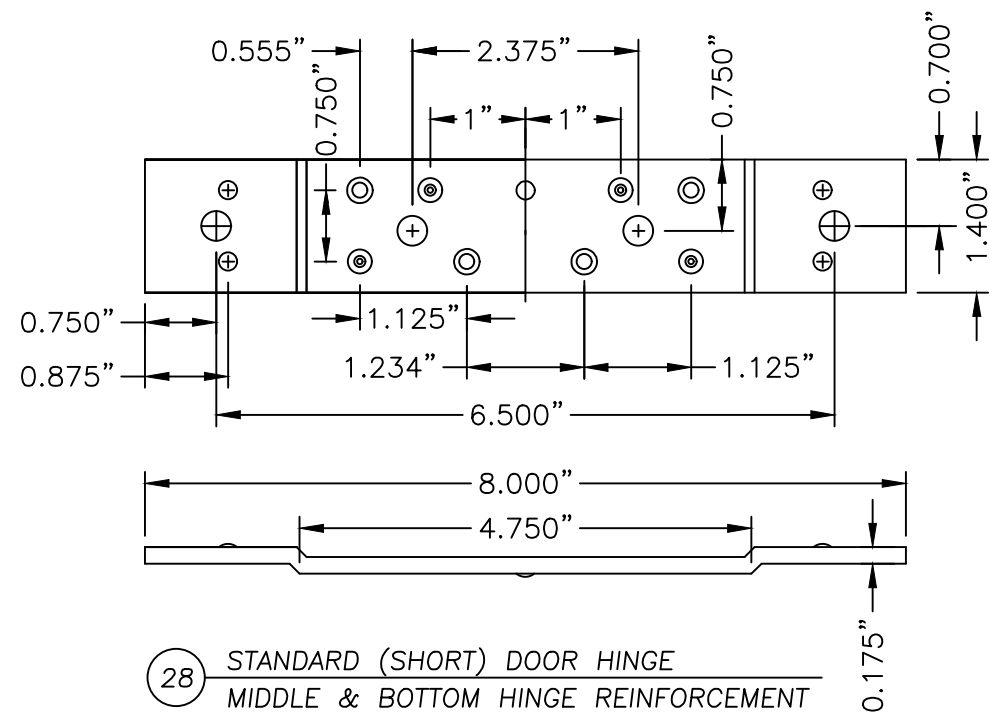
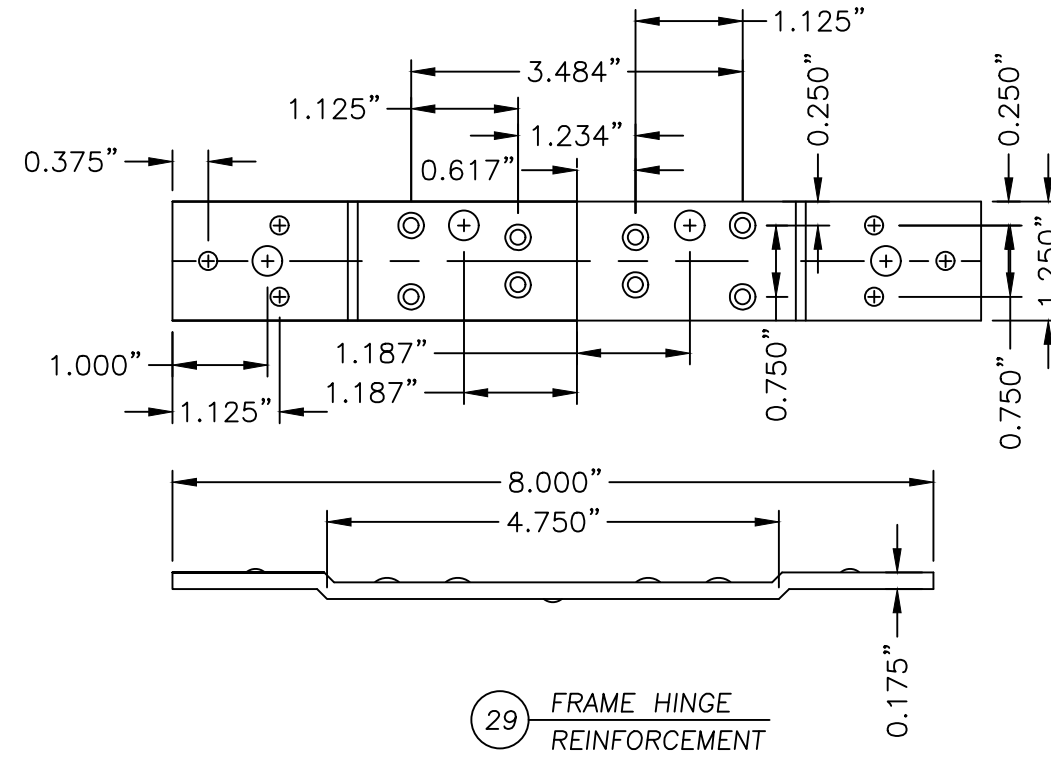
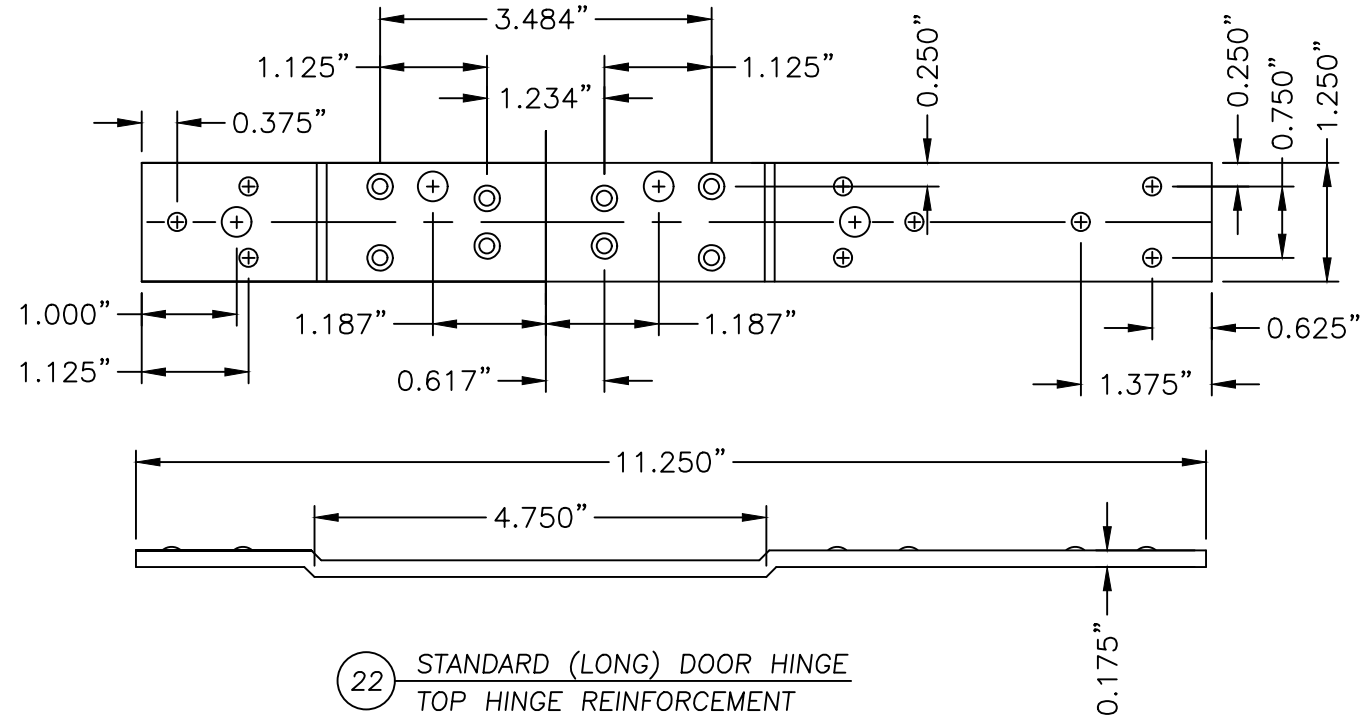
RIM STRIKE DETAIL



HINGE DETAIL



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CHK. BY: LFS		<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DRAWING NO.: FL-12161.3			
SHEET 8 OF 10		PRODUCT: MMI	
		"N" PANELS "IMPACT"	
		PART OR ASSEMBLY:	
		ANCHORING DETAILS	
REVISIONS			
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC
4	7/10/23	UPDATE TO 8TH ED. (2023)	FBC
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC
2	7/13/17	UPDATE TO 6TH ED. (2017)	FBC
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC
NO.	DATE		BY



	5	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
	4	7/10/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
	3	7/30/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
	2	7/13/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
	1	10/14/16	UPDATE TO 5TH ED.	(2014)	FBC	JFK
	NO.	DATE				
			REVISIONS			

DATE: 02/18/09

SCALE: *N.T.S.*

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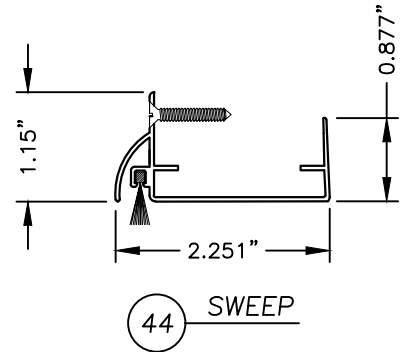
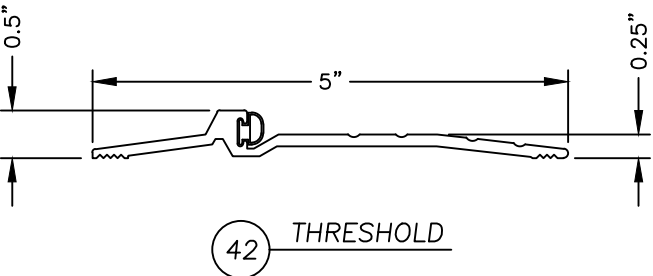
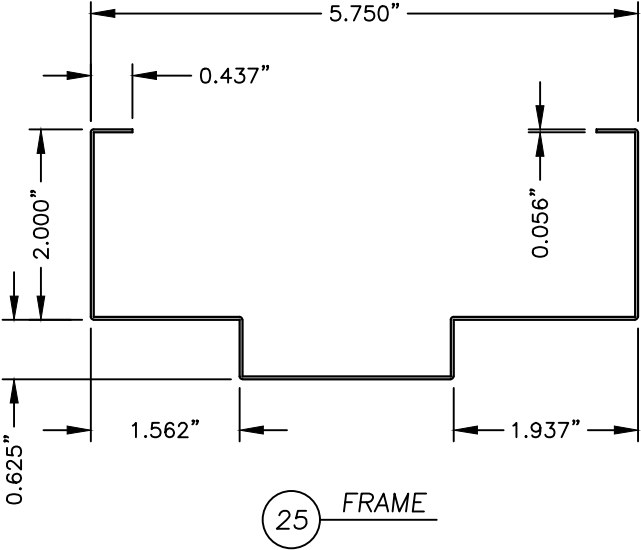
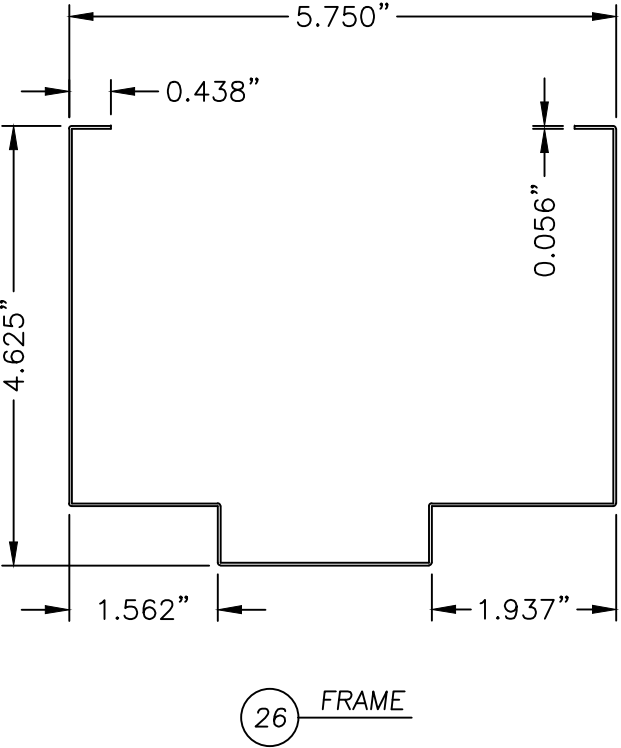
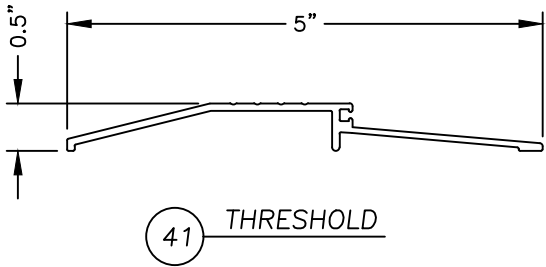
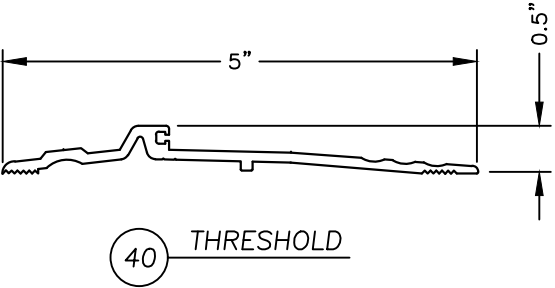
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PART OR ASSEMBLY:
COMPONENTS

RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	1/4" MAX. SHIM SPACE	WOOD
C	3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
D	DESIGN HARDWARE D25 DEADBOLT	STEEL
E	DESIGN HARDWARE X82 LATCH (161 PREP)	STEEL
F	LATCH STRIKE PLATE	BRASS
G	DEADBOLT STRIKE PLATE	STEEL
H	VON DUPRIN 99 SERIES PANIC HARDWARE	STEEL
J	RIM PANIC STRIKE PLATE	STEEL
O	#12 X 1" H.H. SELF TAPPING SCREW	STEEL
P	#8 X 3/4" PFH SCREW	STEEL
Q	#12 X 1/2" MACHINE SCREW	STEEL
R	#12 X 3/4" PFH SELF TAPPING MACHINE SCREW	STEEL
T	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
U	5/16" X 3-3/4" HWH DeWALT CONCRETE SCREW	STEEL
V	MASONRY 'TEE' ANCHOR (PFMT5)	STEEL
W	TUBE ANCHOR	STEEL
X	5/16" X 5" PFH DeWALT CONCRETE SCREW	STEEL
5	LOCK BOX REINFORCEMENT	STEEL
6	CLOSER REINFORCEMENT	STEEL
11	DOOR SKIN (.055" THK. STEEL, Fy=40,300 PSI MIN) (N DOOR)	STEEL
12	FOAM (N DOOR) 1.0 PCF MIN. DENSITY	POLYSTYRENE
13	DOOR TOP & BOTTOM CLOSER (N DOOR)	STEEL
21	HINGE	STEEL
22	STD. (LONG) DOOR HINGE REIN. (TOP HINGE PDNLHR 450)	STEEL
23	WEATHERSTRIP	FOAM
24	THRESHOLD WEATHERSTRIP (NATIONAL GUARD PRODUCTS, INC. ITEM #33)	VINYL
25	FRAME 5-3/4" MIN. WITH 2" HEAD	STEEL
26	FRAME 5-3/4" MIN. WITH 4" HEAD	STEEL
27	14GA. (.075") C.R.S. 161 DEADBOLT FRAME REINFORCEMENT (PFDBR4)	STEEL
28	STD. (SHORT) DOOR HINGE REIN. (MIDDLE & BOTTOM) PDNHR450)	STEEL
29	STD. 4-1/2" FRAME HINGE REINFORCEMENT 7GA.(.175" PF4HR)	STEEL
40	OUTSWING THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
41	OUTSWING THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
42	OUTSWING THRESHOLD PEMKO #2005 V	ALUMINUM
44	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
51	FRAME REINFORCEMENT	STEEL



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" PANELS "IMPACT"				PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS			
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS			
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3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
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1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK			
NO.	DATE			BY			
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DATE: 02/18/09							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-12161.3							
SHEET 10 OF 10							