



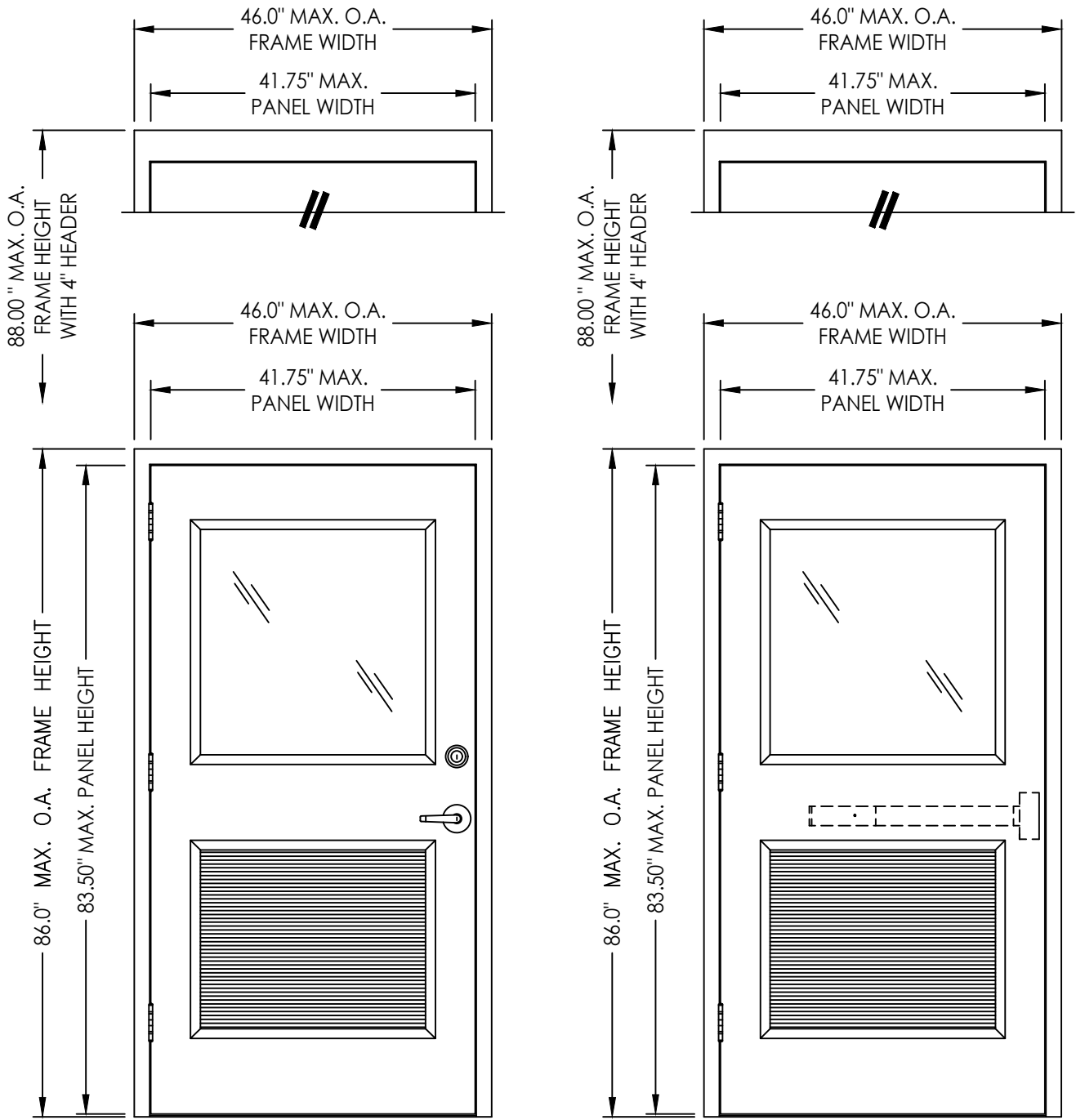
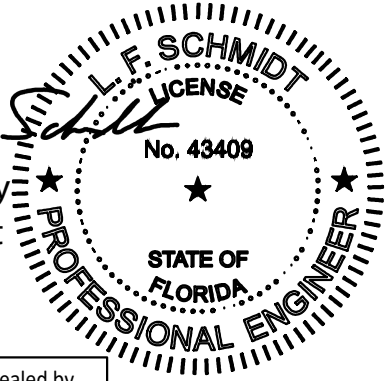
PRIV. DE RIO SANTIAGO #30
COL. LA RAZA
SOLEDAD DE GRACIANO SANCHEZ
SAN LUIS POTOSI, C.P. 78433

'N' SERIES
SINGLE DOOR
1/2 LITE - 1/2 LOUVER
"NON-IMPACT"
OUTSWING

Digitally signed by
Lyndon F Schmidt
Date: 2026.07.01
14:16:05 -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



"N" DOOR

"N" DOOR

GENERAL NOTES

- 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).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- 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.
- The "N" door achieves a Class III stiffness classification per Section 8.2.2 of ANSI A250.13.
- 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

DOOR TYPE	FRAME TYPE	OVERALL FRAME DIMENSION	MAX D.L.O. DIMENSION	GLASS TYPE	LOCK TYPE	DESIGN PRESSURE (PSF)	
						POSITIVE	NEGATIVE
N	2" HEAD	46.0" x 86.0"	29.0" X 29.0"	G1	DESIGN LATCH & DEADBOLT OR VONDUPRIN RIM PANIC HH99EO	+40.0	-40.0
	4" HEAD	46.0" x 88.0"					

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

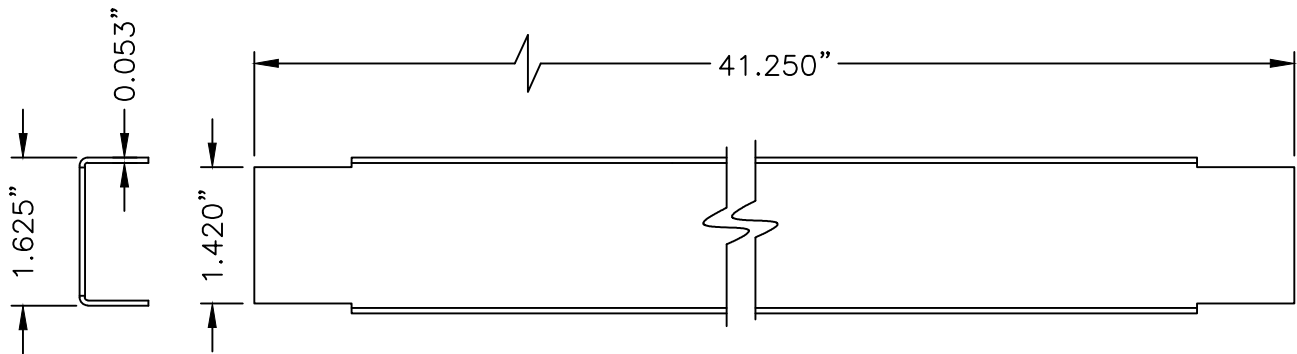
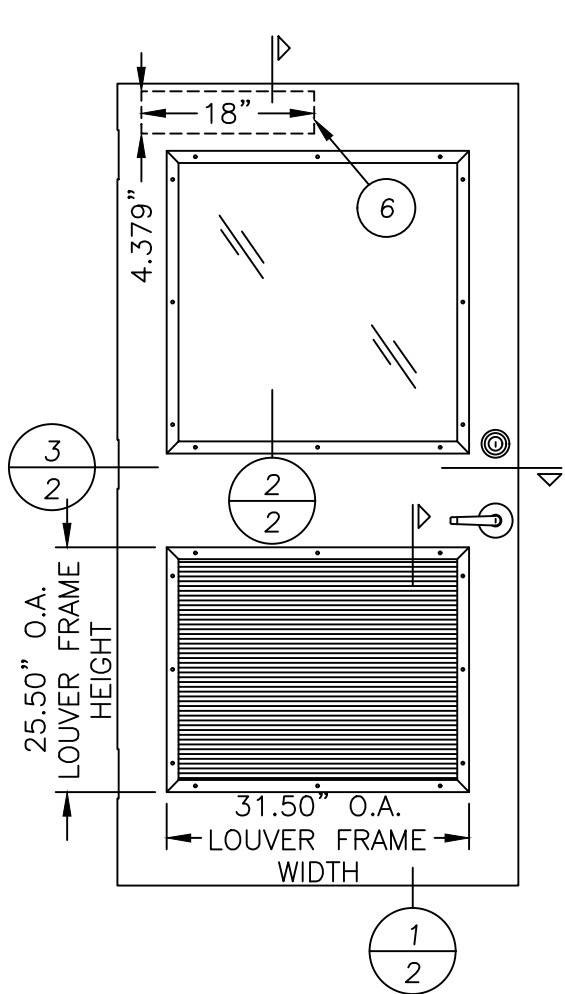
PRODUCT: MMI
"N" PANELS "NON-IMPACT"

NO.	DATE	REVISIONS				
		DATE	BY	JK	LFS	LFS
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		

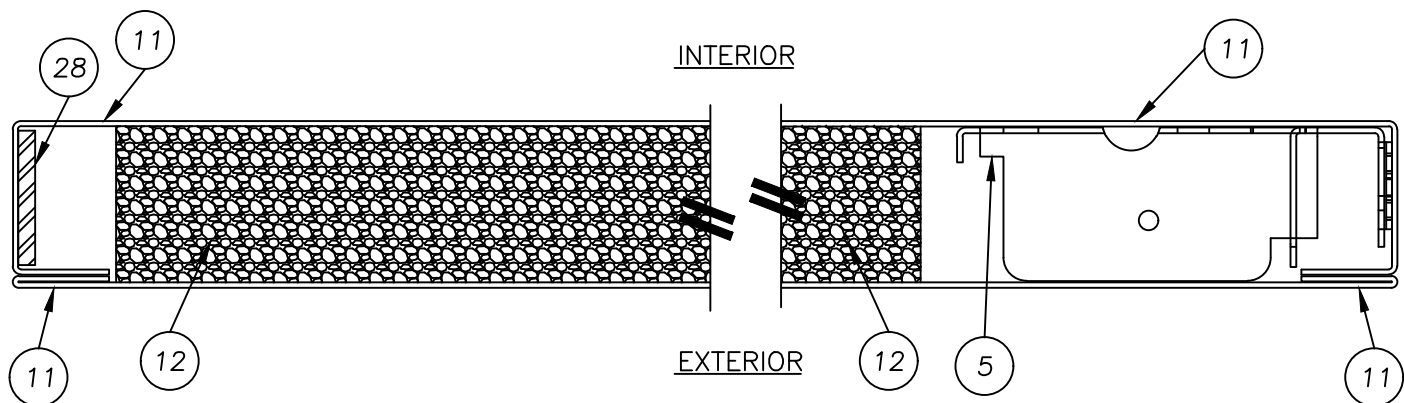
DATE: 02/18/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-12161.4
SHEET 1 OF 10

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

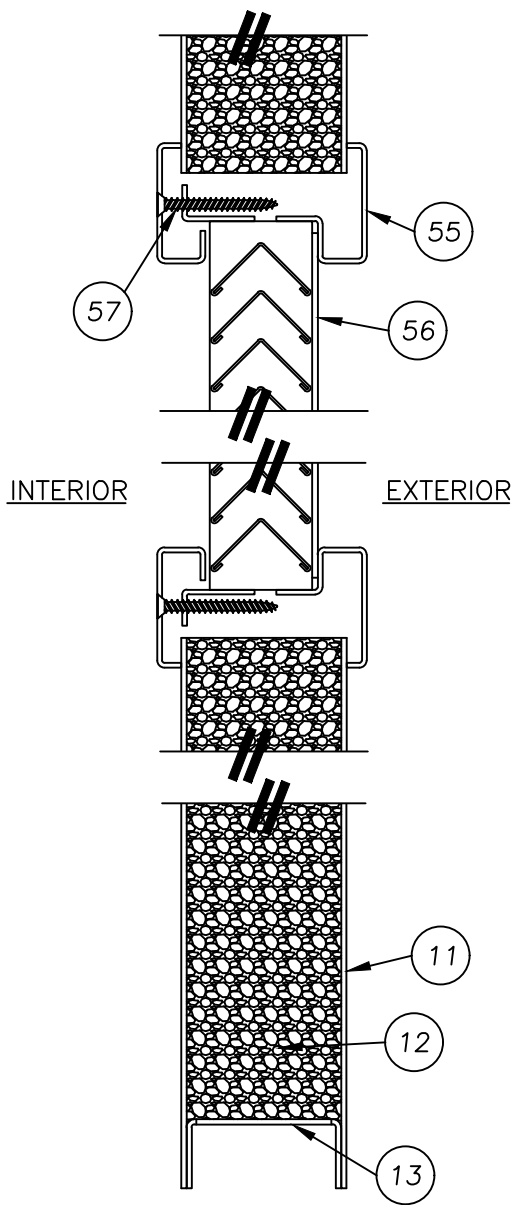
G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12161 RS\FL-12161.1-6.dwg



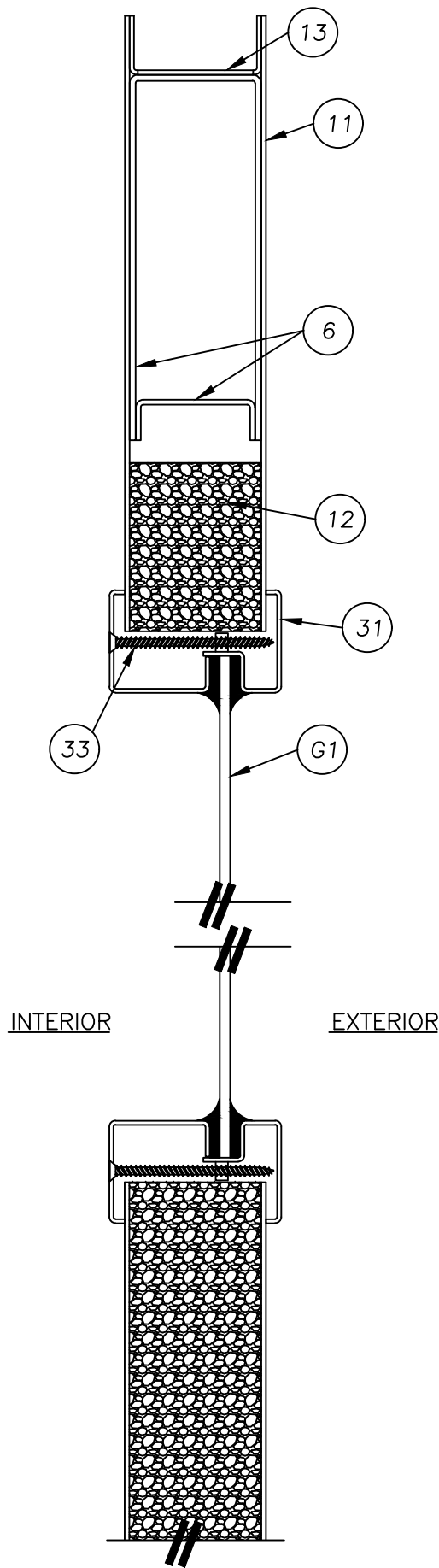
13 DOOR TOP & BOTTOM CLOSER
16GA. (.053) C.R.S.



3/2 HORIZONTAL CROSS SECTION



1/2 VERTICAL CROSS SECTION



2/2 VERTICAL CROSS SECTION

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

DATE:	02/18/09
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-12161.4
SHEET	2 OF 10

DATE: 02/18/09

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-12161.4

SHEET 2 OF 10

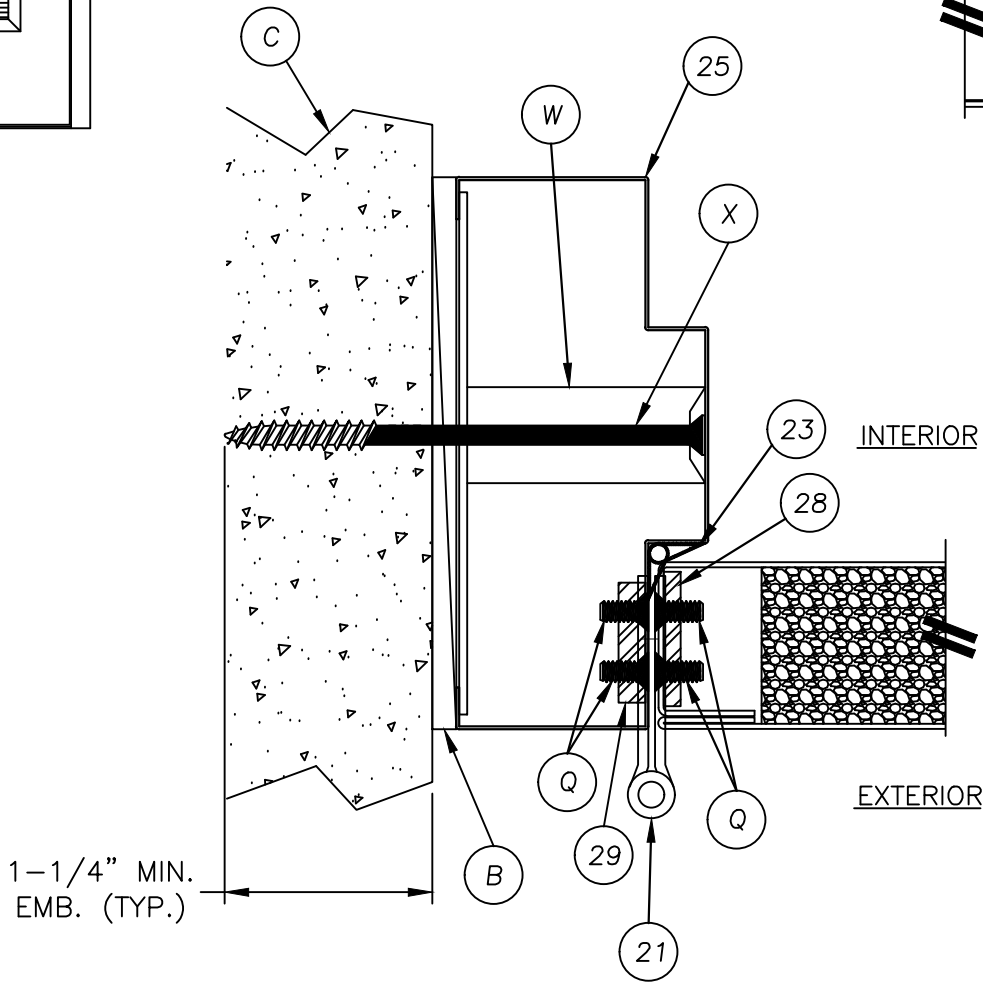
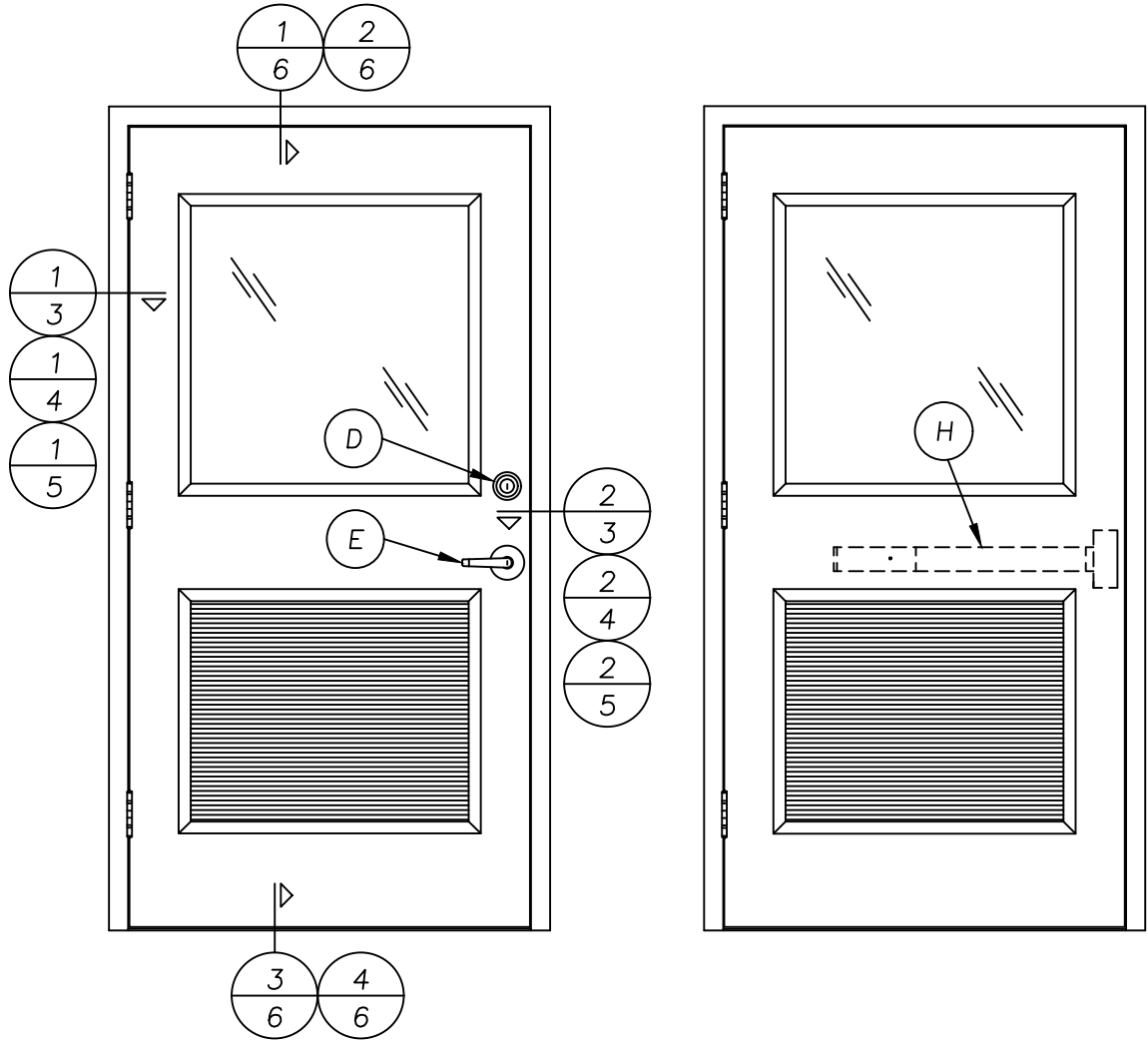
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
MMI
"N" PANELS "NON-IMPACT"

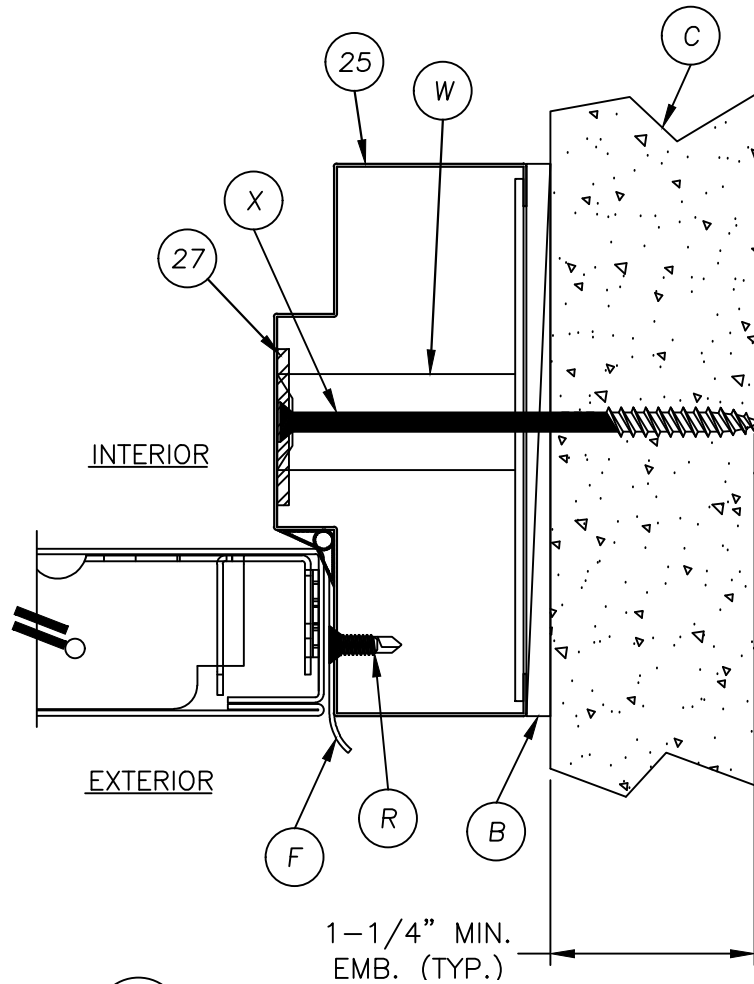
PART OR ASSEMBLY:
DOOR PANEL DETAILS

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

G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12161 RS\FL-12161.1-6.dwg



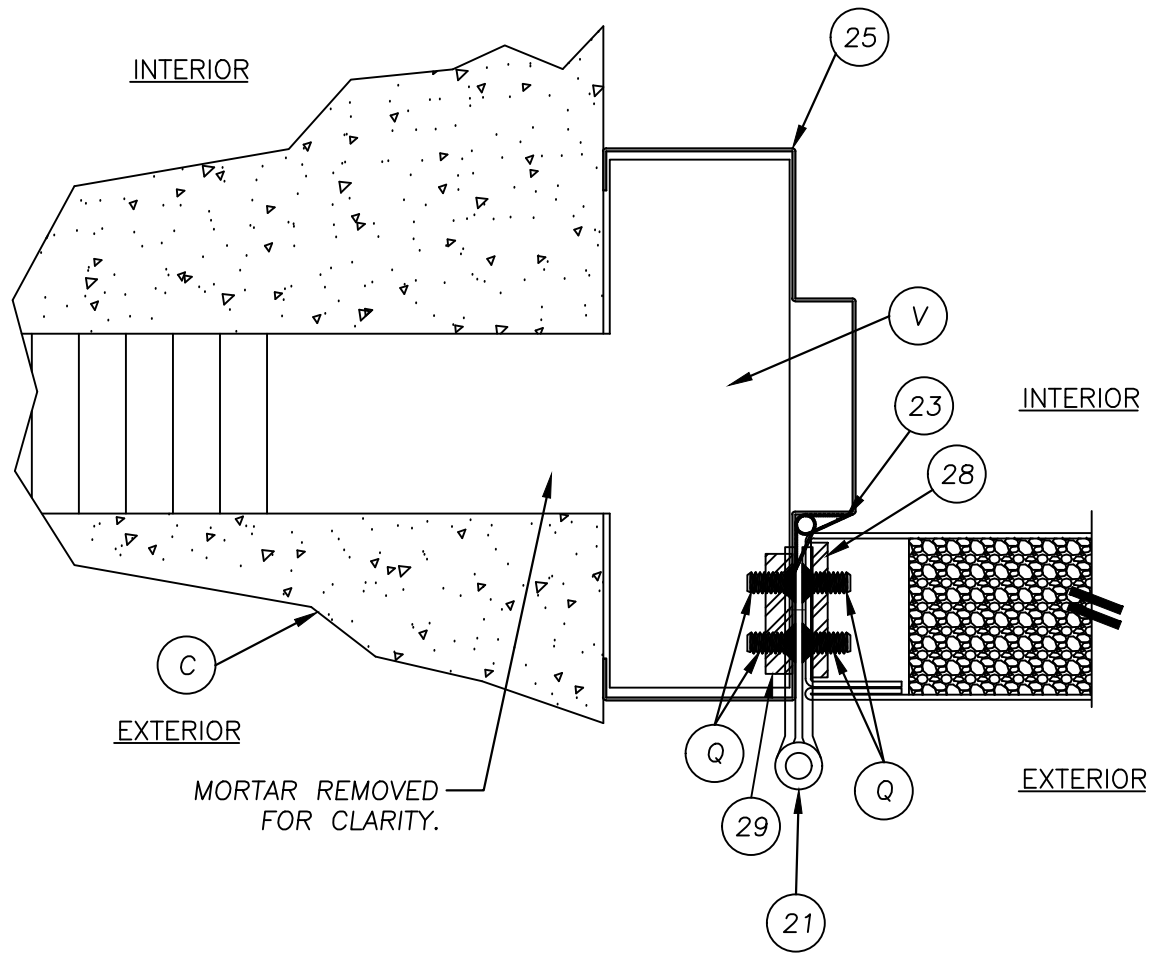
1 HORIZONTAL CROSS SECTION
3 @ HINGE
SHOWN WITH TUBE ANCHOR



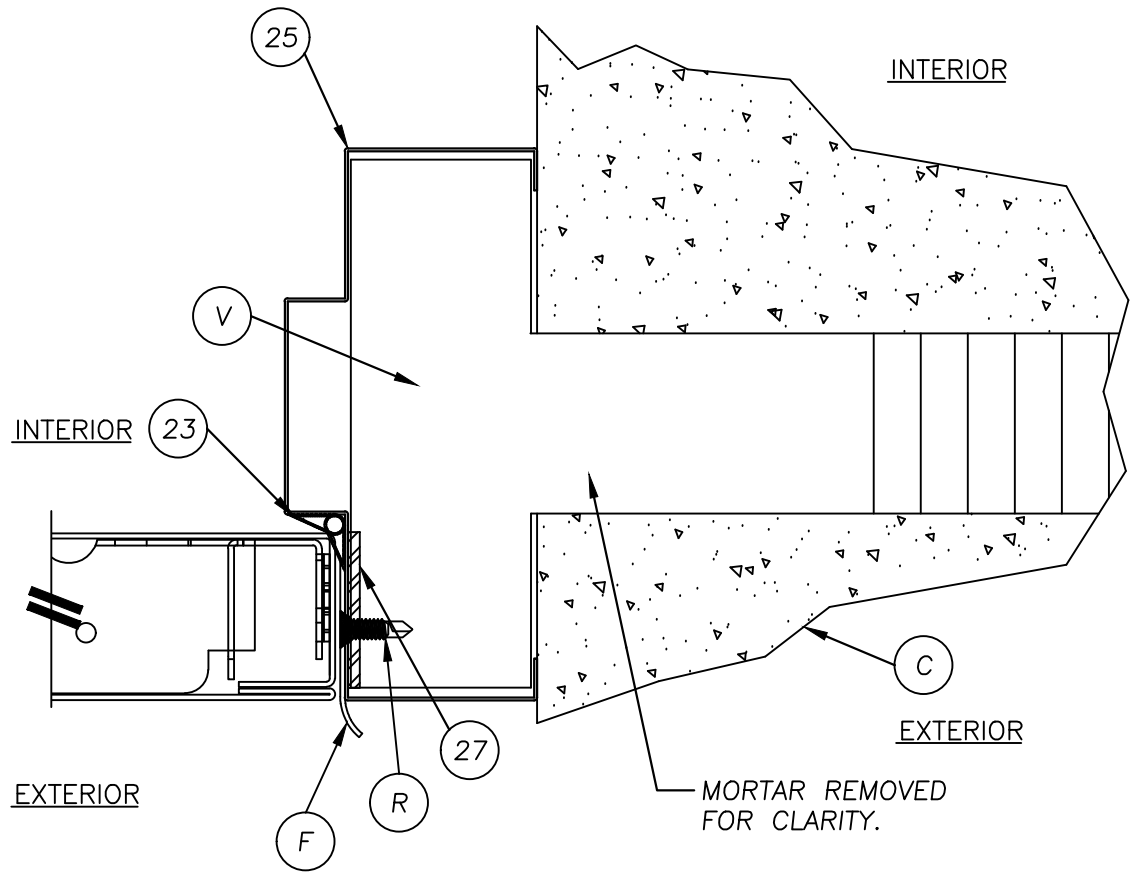
2 HORIZONTAL CROSS SECTION
3 @ HINGE
SHOWN WITH TUBE ANCHOR

PRODUCT:					MMI "N" PANELS "NON-IMPACT"					BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813				
PART OR ASSEMBLY:					HORIZONTAL CROSS SECTIONS					<i>RW</i>				
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													
REVISIONS														
DATE: 02/18/09														
SCALE: N.T.S.														
DWG. BY: JK														
CHK. BY: LFS														
DRAWING NO.: FL-12161.4														
SHEET 3 OF 10														

G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12161 RS\FL-12161.1-6.dwg



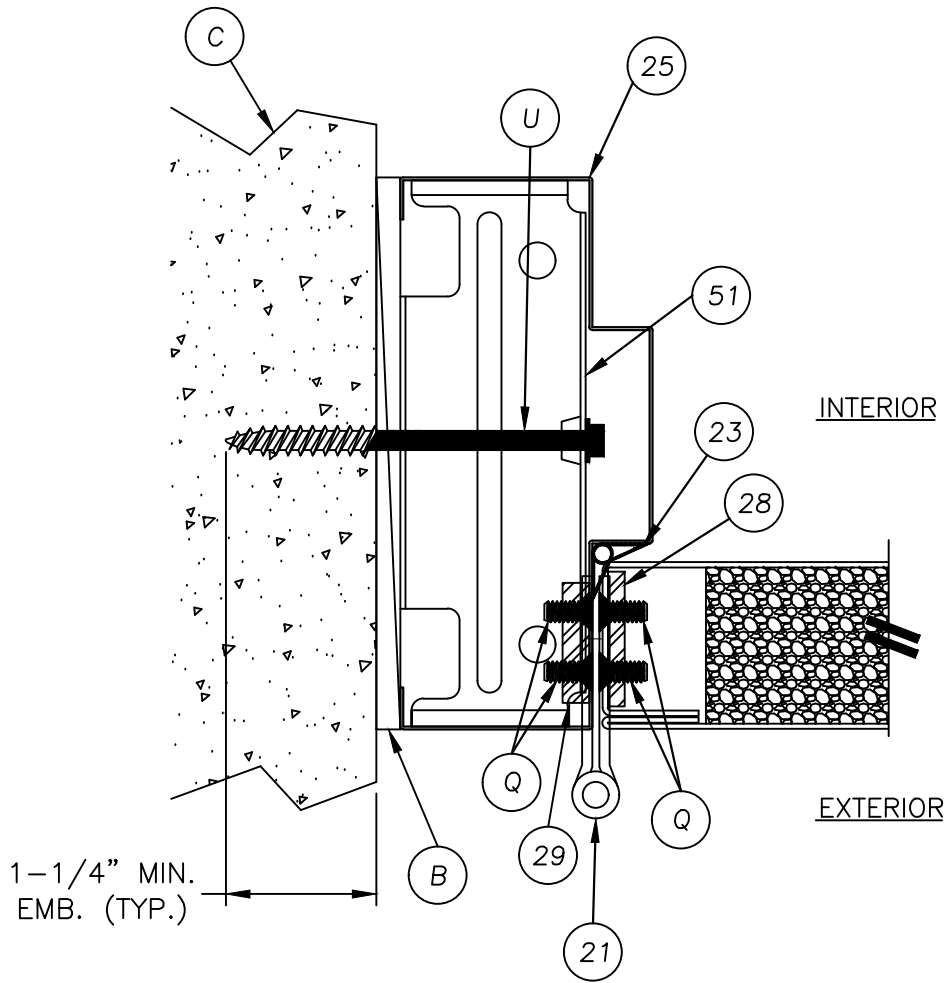
1 HORIZONTAL CROSS SECTION
4 @ LATCH
SHOWN WITH TEE ANCHOR



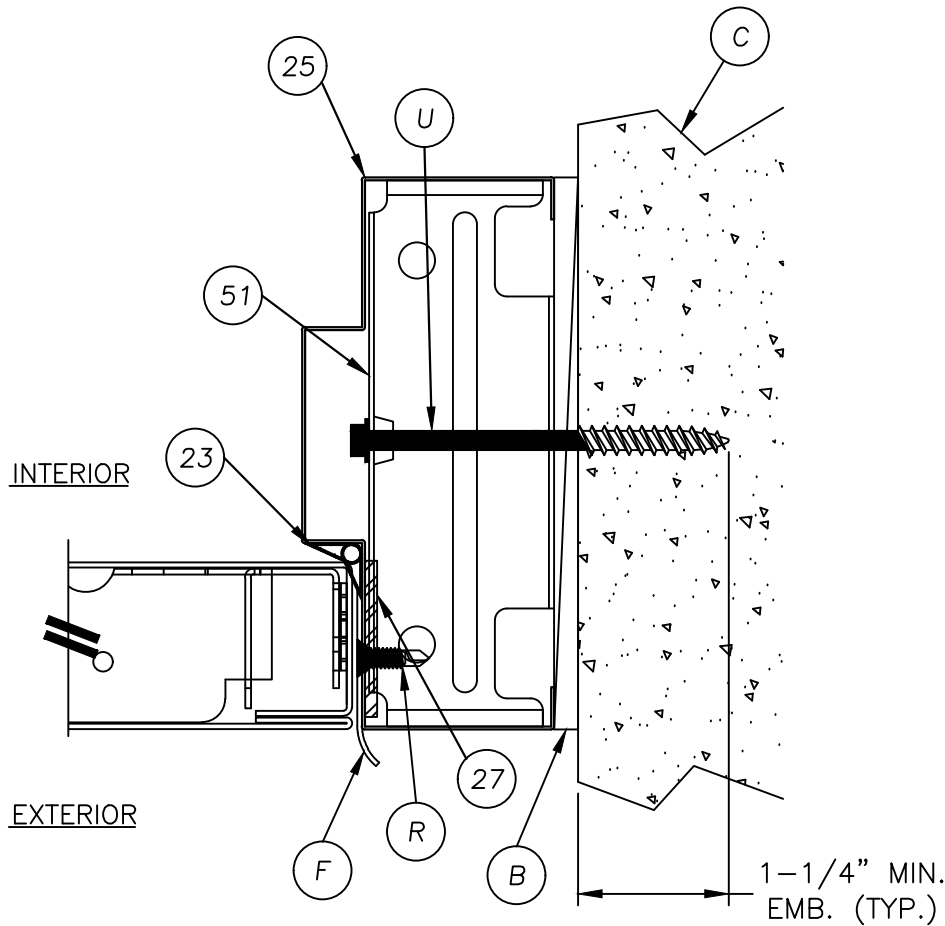
2 HORIZONTAL CROSS SECTION
4 @ LATCH
SHOWN WITH TEE ANCHOR

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 "NON-IMPACT"		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
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	REVISIONS		
			BY		
DATE: 02/18/09					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-12161.4					
SHEET 4 OF 10					

G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12161 RS\FL-12161.1-6.dwg



1 HORIZONTAL CROSS SECTION
5 @ LATCH
SHOWN WITH UNIVERSAL ANCHOR



2 HORIZONTAL CROSS SECTION
5 @ LATCH
SHOWN WITH UNIVERSAL ANCHOR

NO.	DATE	REVISIONS			
		DATE	BY	CHK	APP
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	

DATE: 02/18/09

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

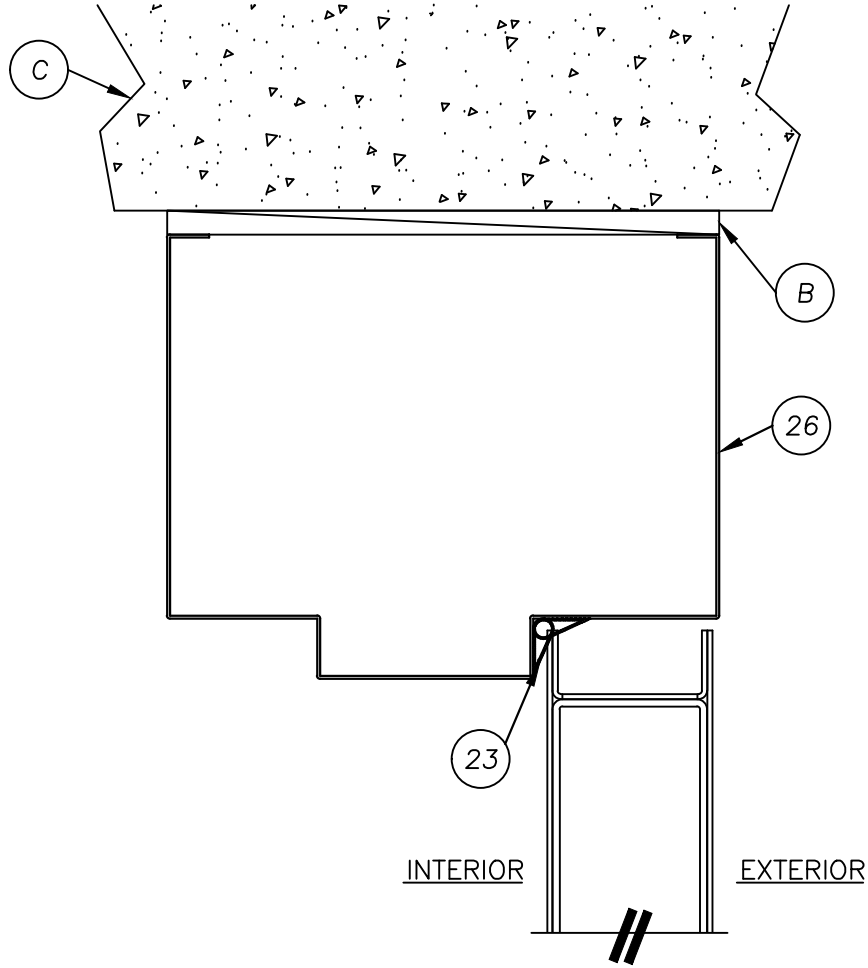
DRAWING NO.:
FL-12161.4

SHEET 5 OF 10

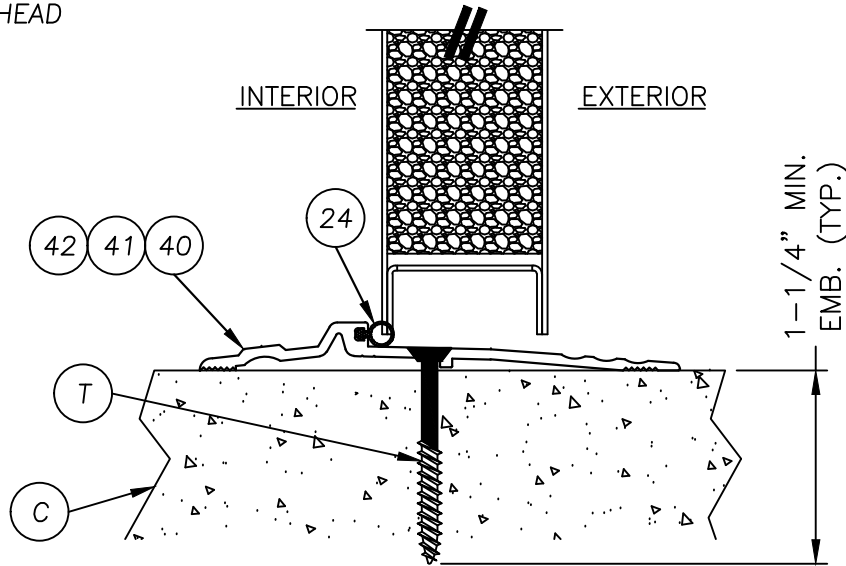
PRODUCT:
MMI
"N" PANELS "NON-IMPACT"
PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

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

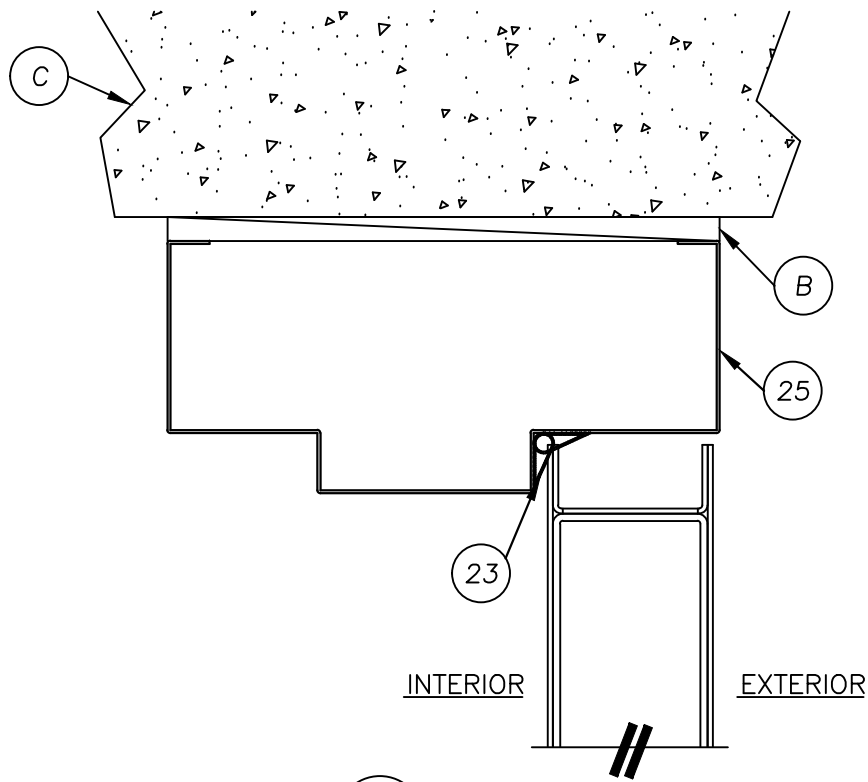
G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12161 RS\FL-12161.1-6.dwg



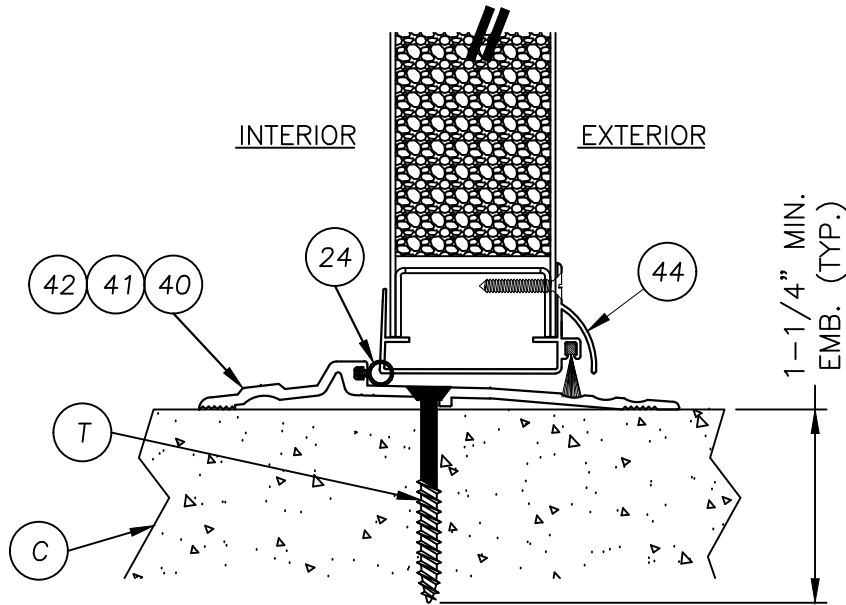
1 VERTICAL CROSS SECTION
6 @ HEAD



3 VERTICAL CROSS SECTION
6 @ THRESHOLD



2 VERTICAL CROSS SECTION
6 @ HEAD



4 VERTICAL CROSS SECTION
6 @ THRESHOLD

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:

MMI
"N" PANELS "NON-IMPACT"

DATE: 02/18/09

SCALE: N.T.S.

DWG. BY: JK

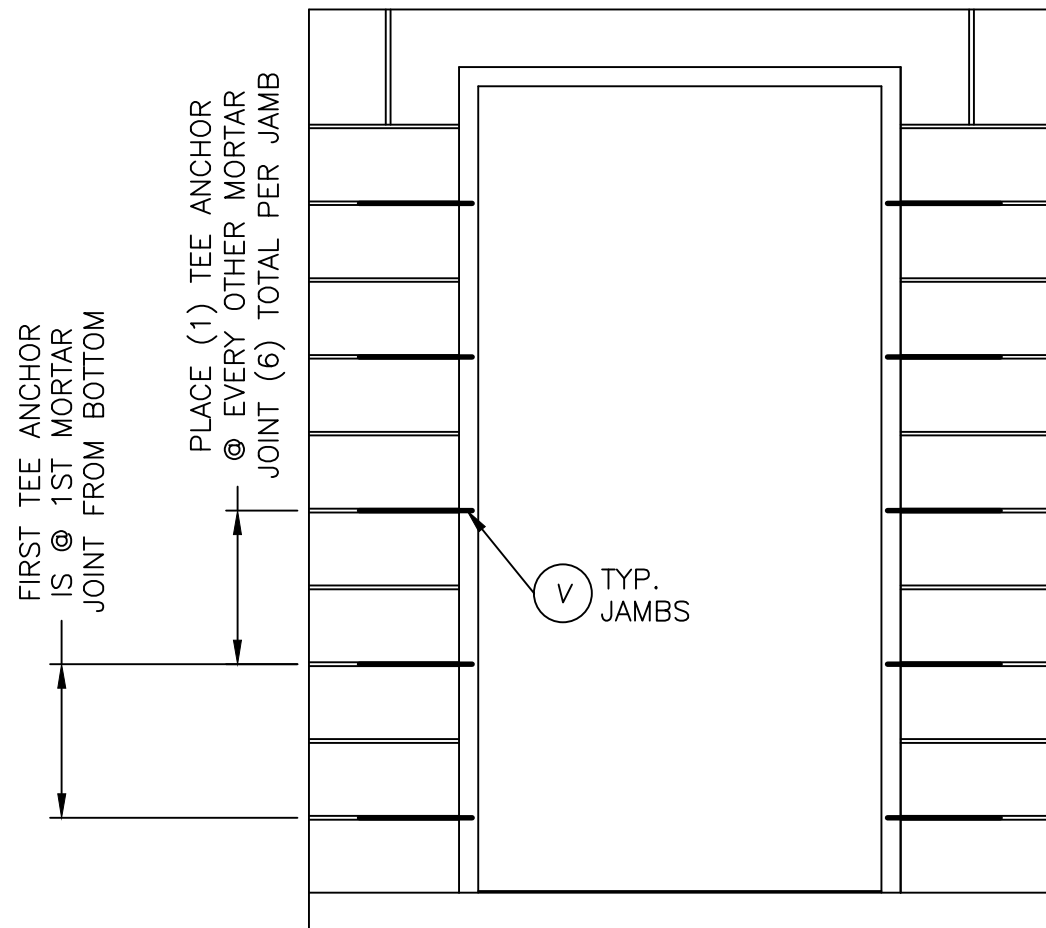
CHK. BY: LFS

DRAWING NO.: FL-12161.4

SHEET 6 OF 10

NO.	DATE	REVISIONS
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
		BY

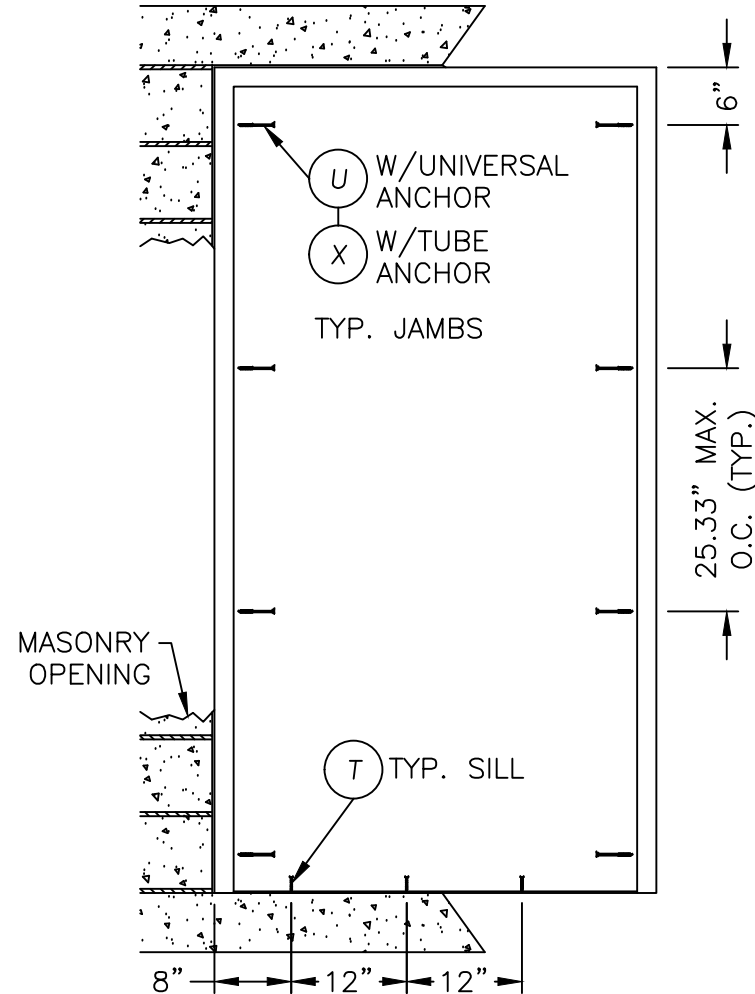
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



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:

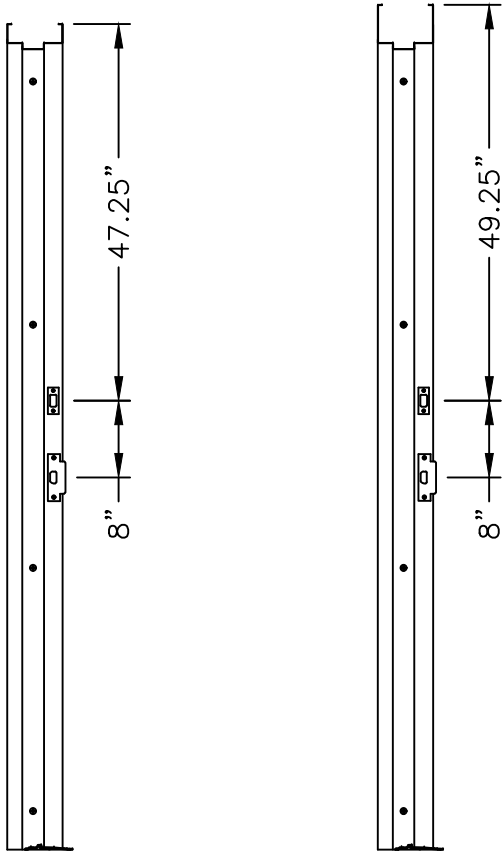
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	2-1/2"	4"
DeWALT ULTRACON®	5/16"	1-1/4"	3-1/8"	5"

[illegible]

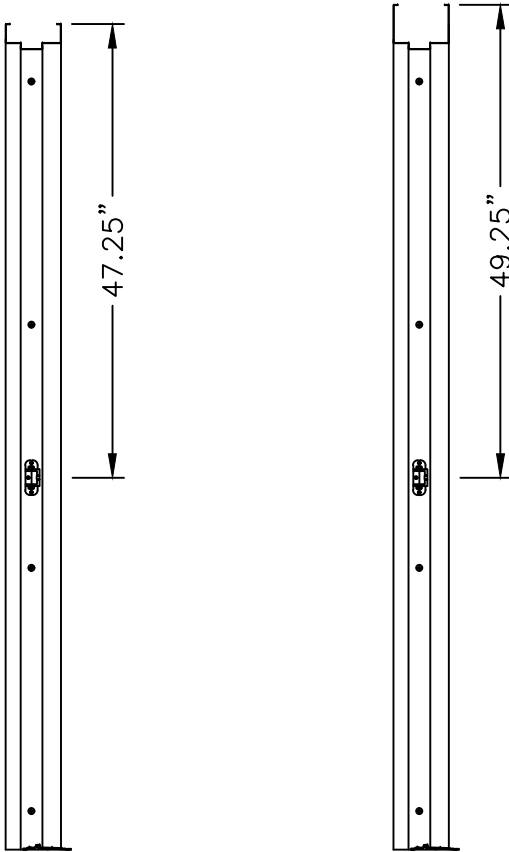
PRODUCT: MMI
"N" PANELS "NON-IMPACT"
PART OR ASSEMBLY: BUCK AND FRAME
ANCHORING

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

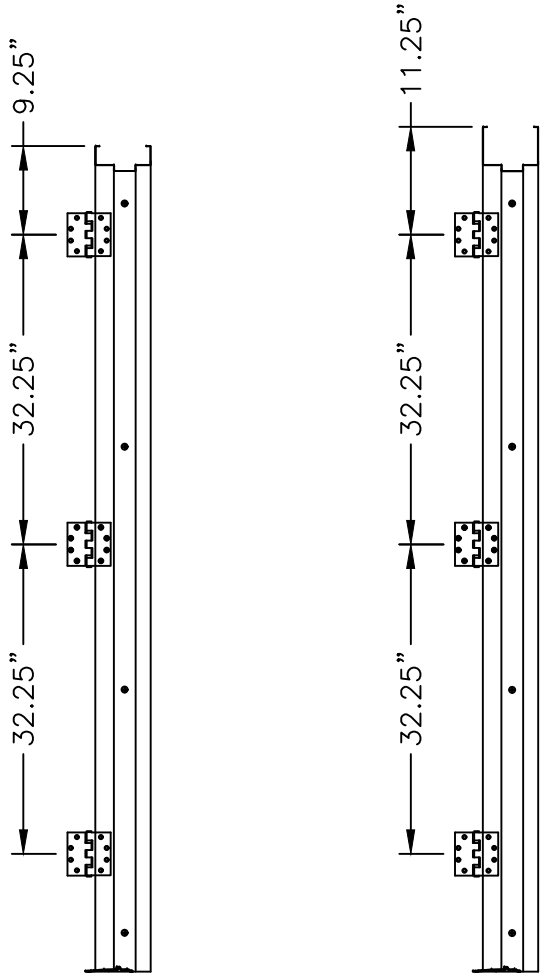
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



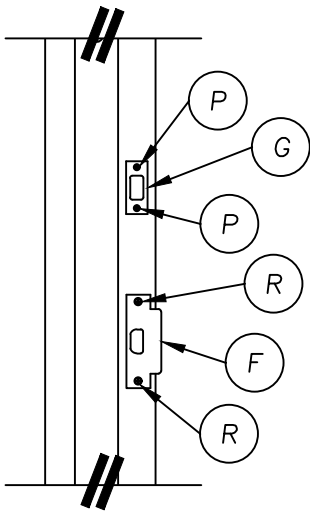
STRIKE PLATE STRIKE PLATE
LOCATIONS 2" HEAD LOCATIONS 4" HEAD



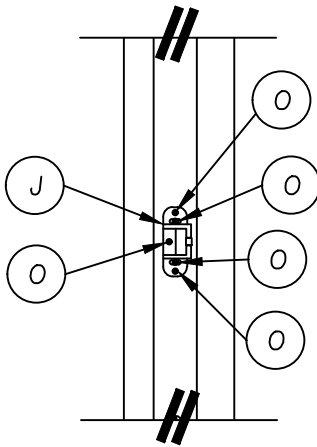
STRIKE PLATE STRIKE PLATE
LOCATION 2" HEAD LOCATION 4" HEAD



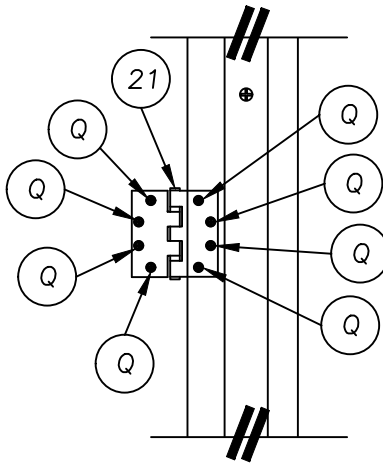
<u>HINGE LOCATIONS</u>	<u>HINGE LOCATIONS</u>
2" HEAD	4" HEAD



STRIKE PLATE DETAIL
ANSI STRIKE & DEADBOLT



RIM STRIKE DETAIL



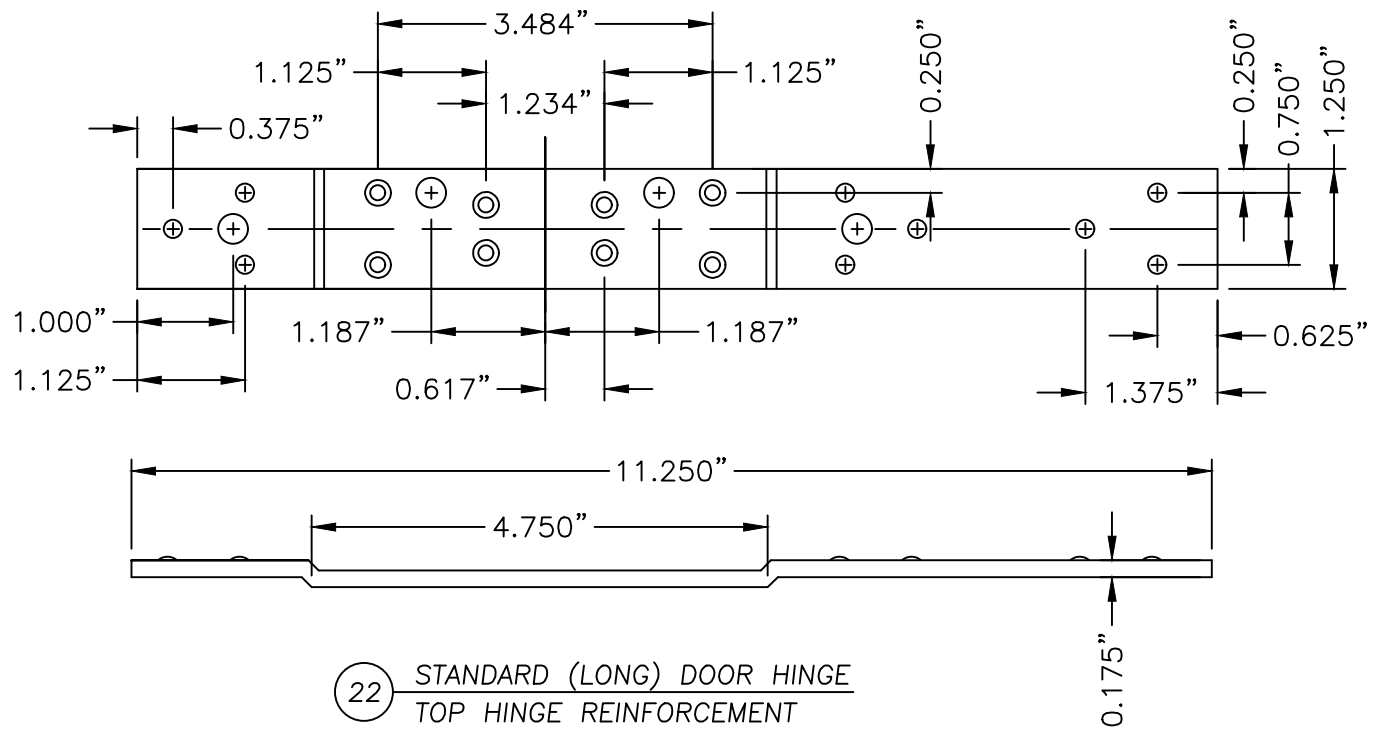
HINGE DETAIL

[illegible]

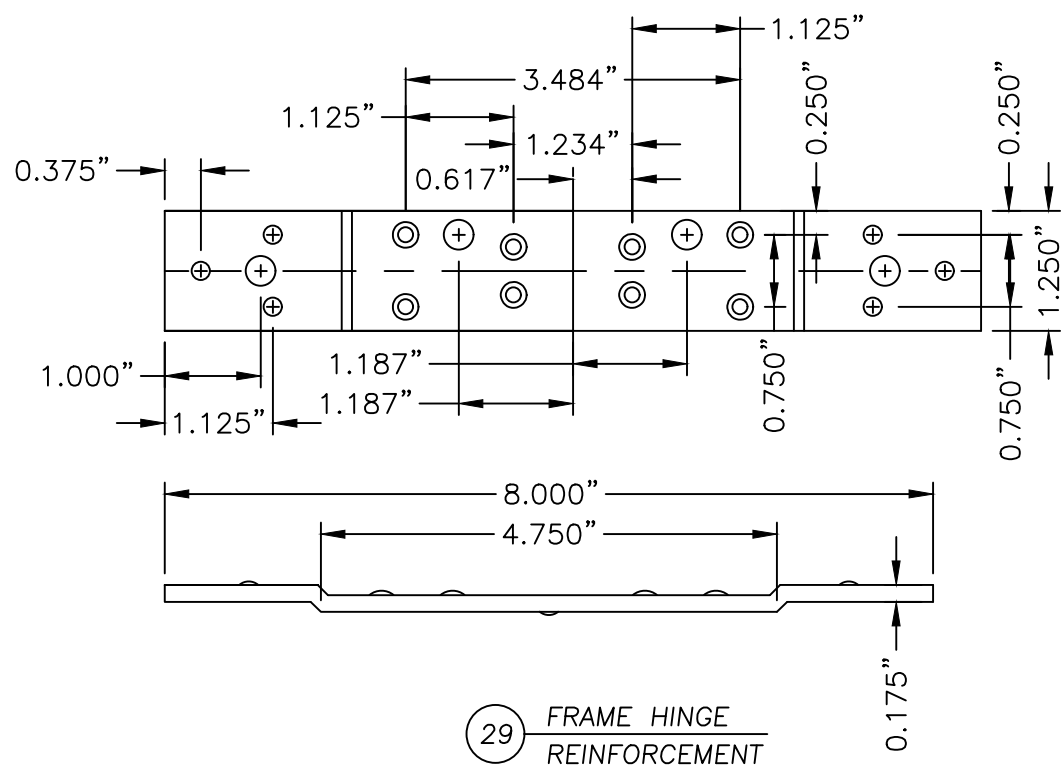
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

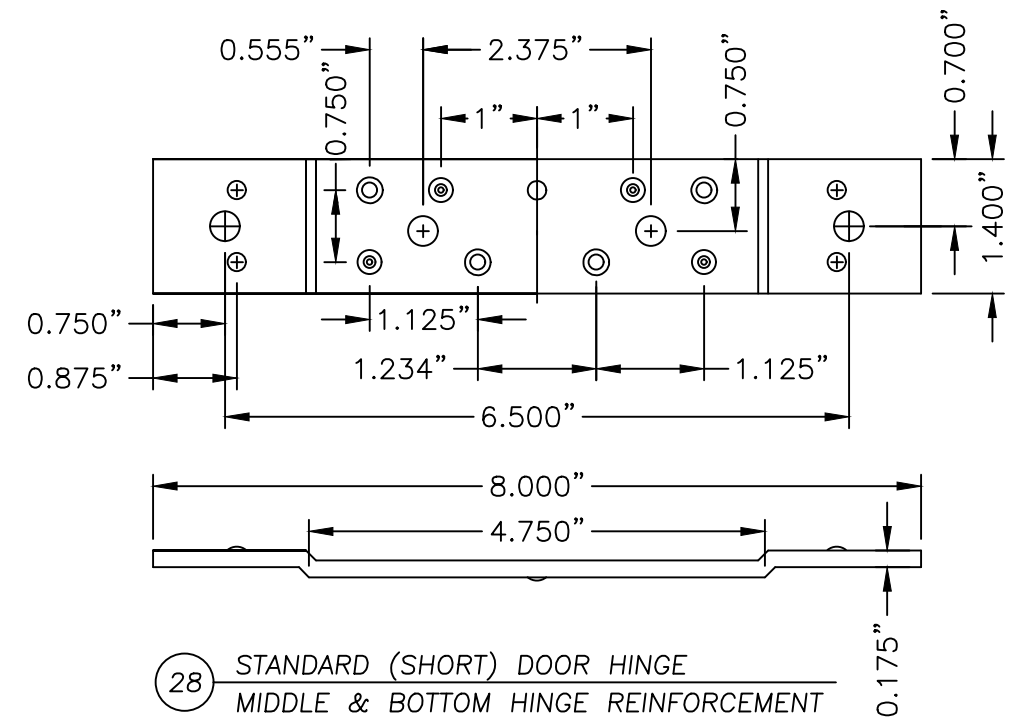
G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12161 RS\FL-12161.1--6.dwg



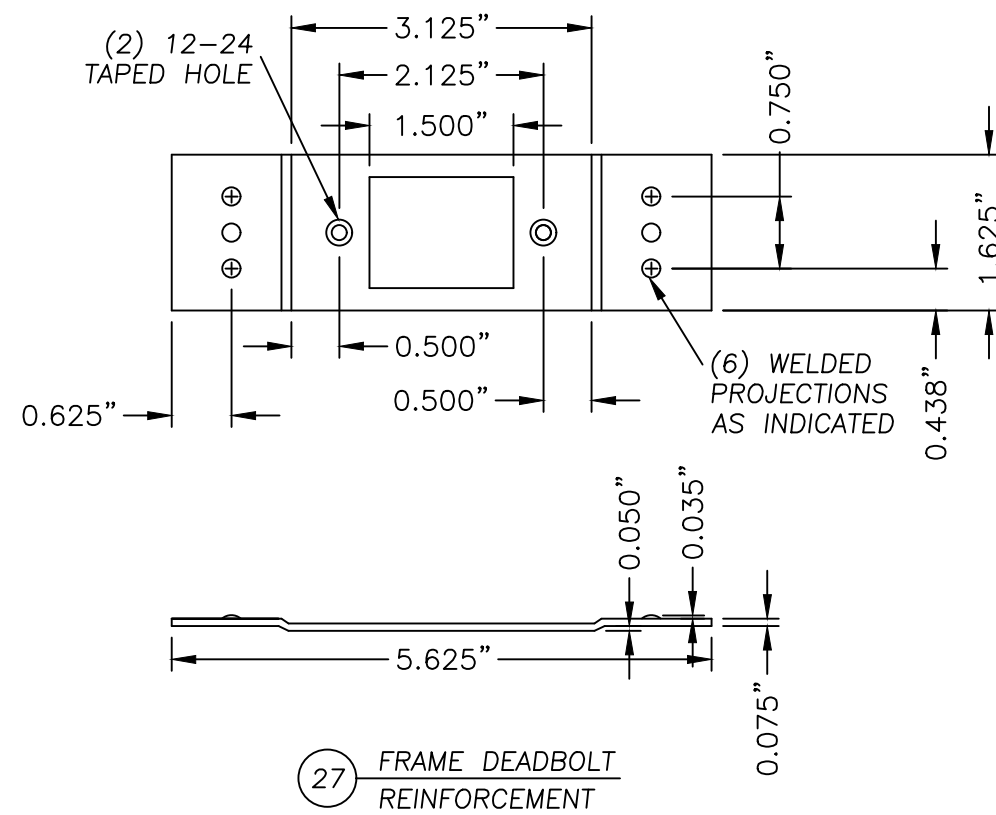
22 STANDARD (LONG) DOOR HINGE
TOP HINGE REINFORCEMENT



29 FRAME HINGE
REINFORCEMENT



28 STANDARD (SHORT) DOOR HINGE
MIDDLE & BOTTOM HINGE REINFORCEMENT



27 FRAME DEADBOLT
REINFORCEMENT

Documents Prepared By:

Lyndon F. Schmidt

P.E. No. 43409

PRODUCT:

MMI

"N" PANELS "NON-IMPACT"

DATE:

02/18/09

SCALE:

N.T.S.

DWG. BY:

JK

CHK. BY:

LFS

DRAWING NO.:

FL-12161.4

SHEET

9

OF

10

REVISIONS

NO.

DATE

BY

PART OR ASSEMBLY:

COMPONENTS

Building Consultants, Inc.

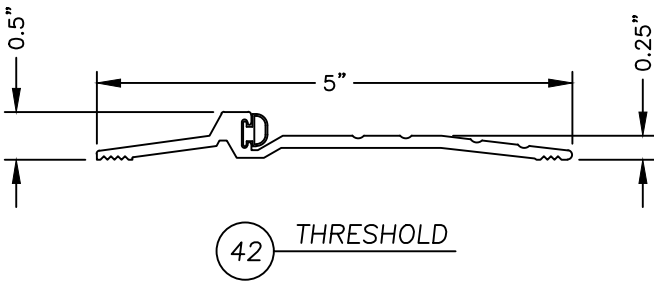
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

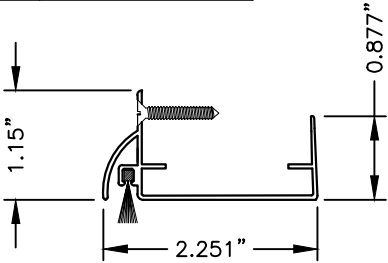
FBPE Registry No. 9813

G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12161 RS\FL-12161.1-6.dwg

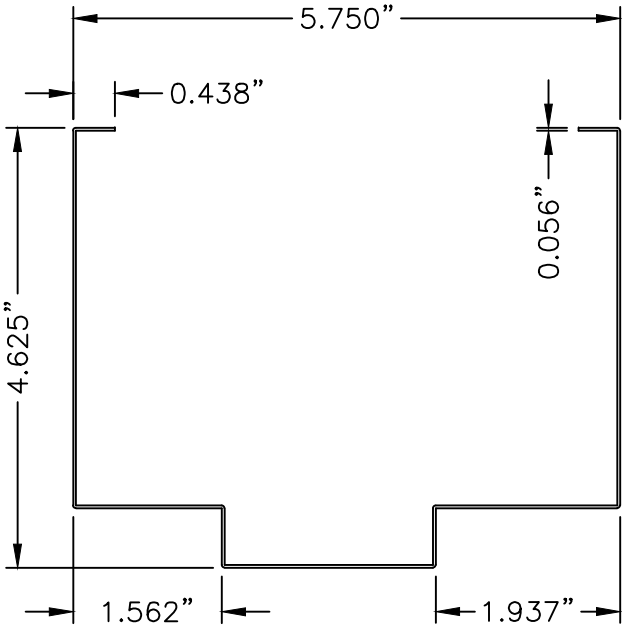
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	1/4" MAX. SHIM SPACE	WOOD
C	3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
D	DESIGN HARDWARE D25 DEADBOLT	STEEL
E	DESIGN HARDWARE X82 LATCH (161 PREP)	STEEL
F	LATCH STRIKE PLATE	BRASS
G	DEADBOLT STRIKE PLATE	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
31	LITE FRAME	STEEL
33	#6 X 2" PFH SCREW	STEEL
34	TREMCO SPECTREM II GLAZING COMPOUND	SILICONE
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
55	LOUVER FRAME	STEEL
56	LOUVER PANEL	STEEL
57	#6 X 1-1/4" PFH SCREW	STEEL



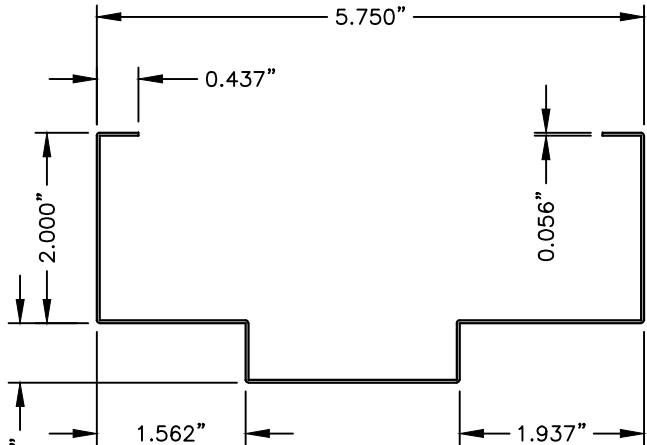
42 THRESHOLD



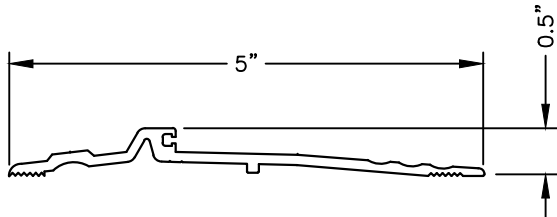
44 SWEEP



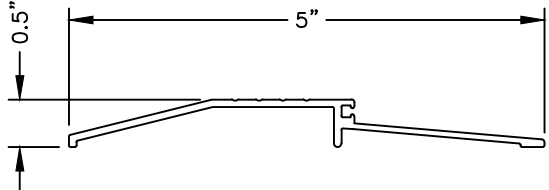
26 FRAME



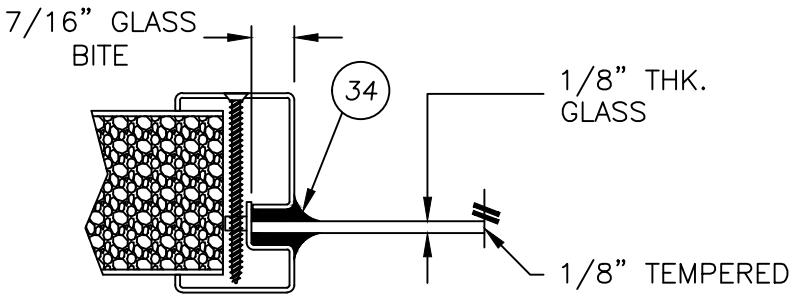
25 FRAME



40 THRESHOLD



41 THRESHOLD



G1 GLAZING DETAIL
9/16" MONOLITHIC GLASS

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" PANELS "NON-IMPACT"

PART OR ASSEMBLY:
BILL OF MATERIALS, GLAZING
DETAIL & COMPONENTS

NO.	DATE	REVISIONS				
		DATE	BY	JK	LFS	FBC
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			

DATE: 02/18/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-12161.4
SHEET 10 OF 10