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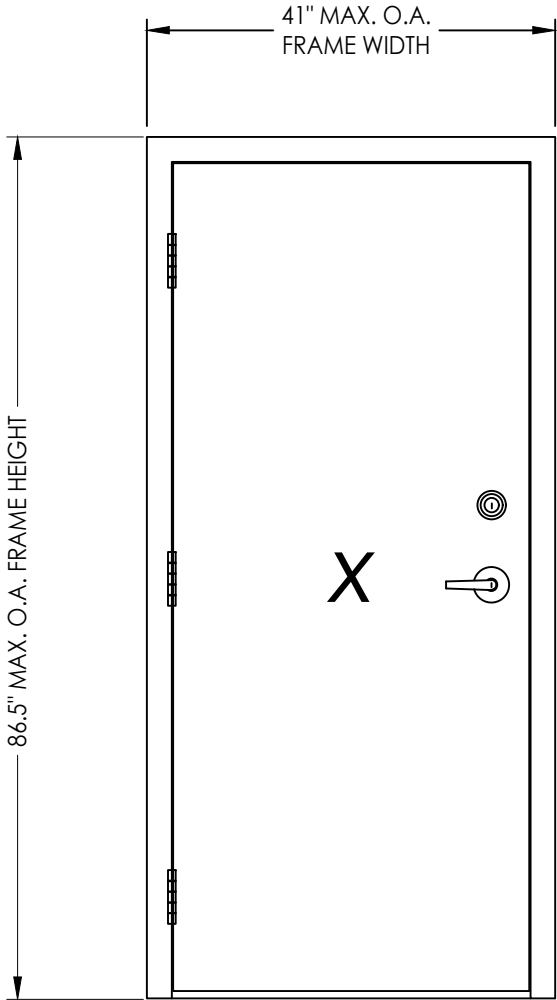


METAL BUILDING SERIES STEEL DOOR & FRAME OUTSWING "IMPACT"

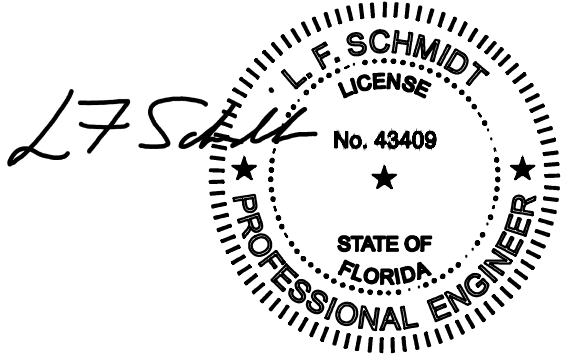
GENERAL NOTES

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 FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. The steel door and support frame are shown (as tested). The steel frame is part of the support structure and shall be designed by the architect or engineer of record and submitted to the permitting jurisdiction for review and approval.
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 details
3	Elevations
4	Horizontal cross section
5	Vertical cross sections
6	Horizontal cross sections
7	Frame anchoring
8	Components
9	Bill of materials



MAX. OVERALL DIMENSION	LOCK HARDWARE	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
41.0" X 86.5"	LATCH & DEADBOLT	+60.0	-65.0
	MORTISE LOCK	+60.0	-65.0
	LATCH ONLY	+50.0	-50.0



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

PRODUCT: FISO DOOR

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

DATE: 2/28/24

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-46579.1

SHEET 1 OF 9

REVISIONS

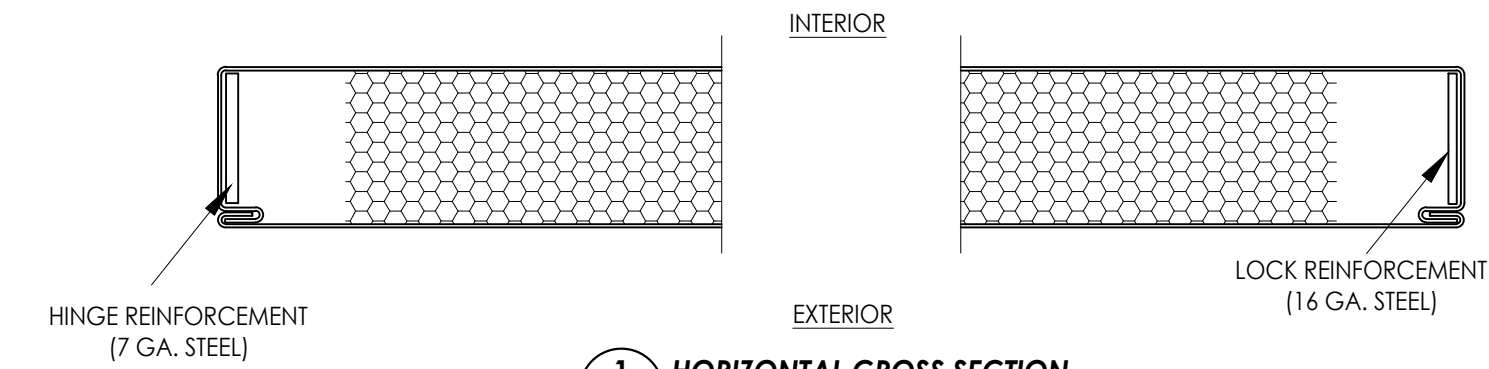
NO. DATE BY

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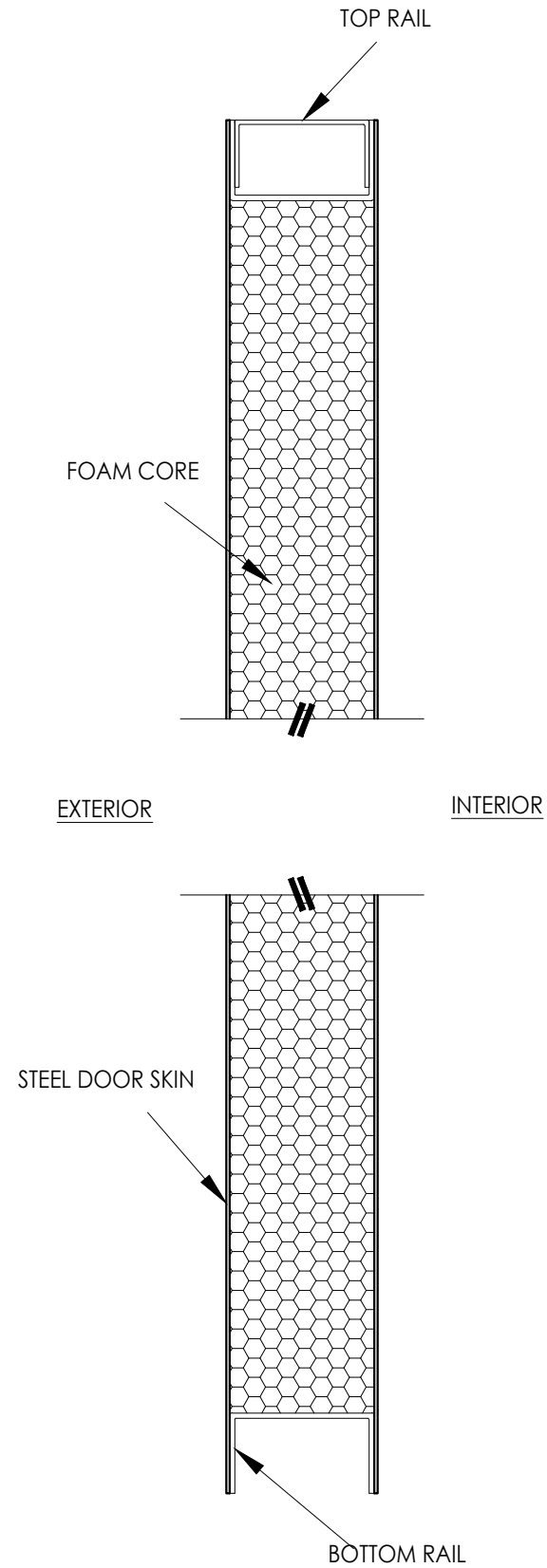
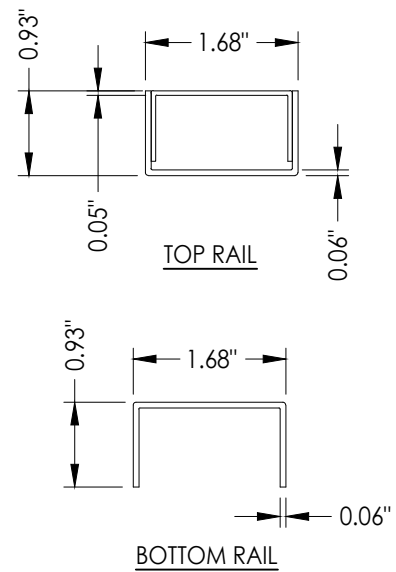
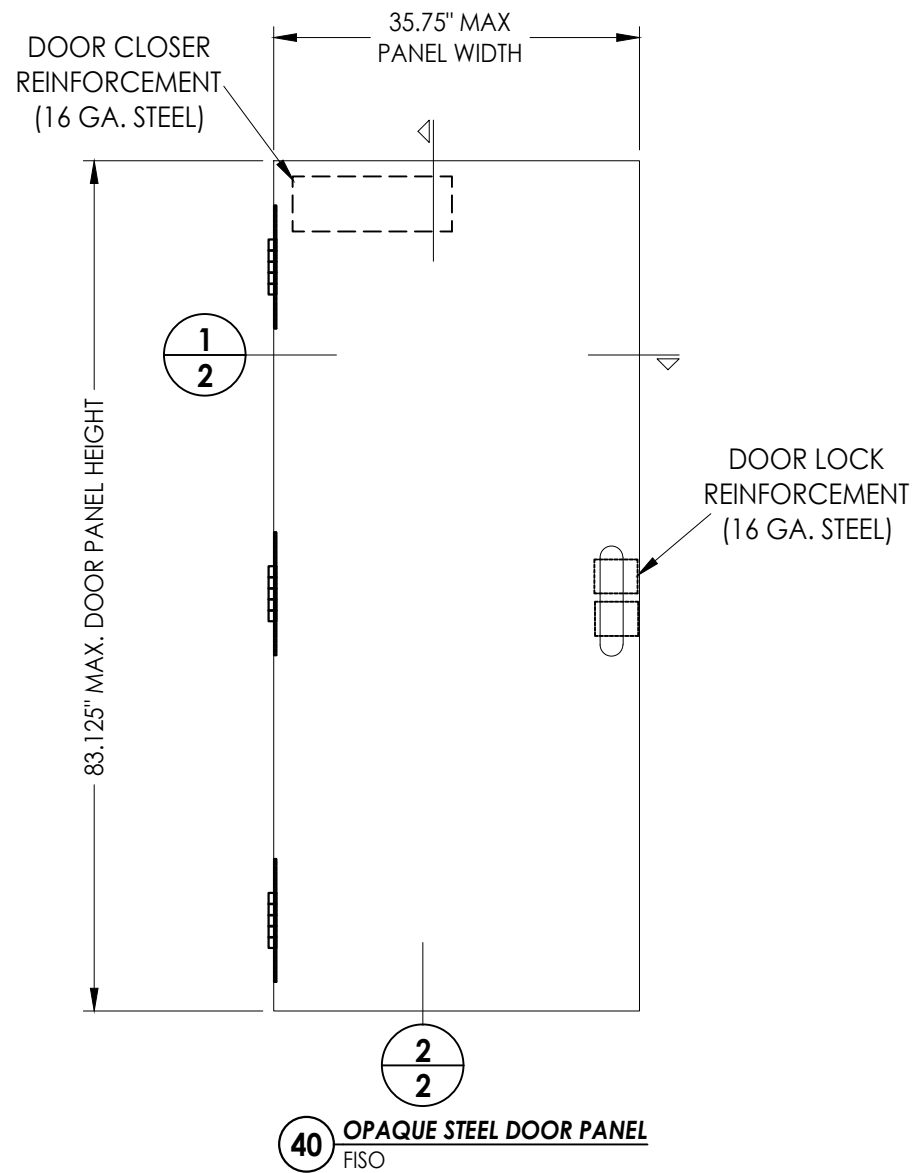
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

FBPE Registry No. 9813



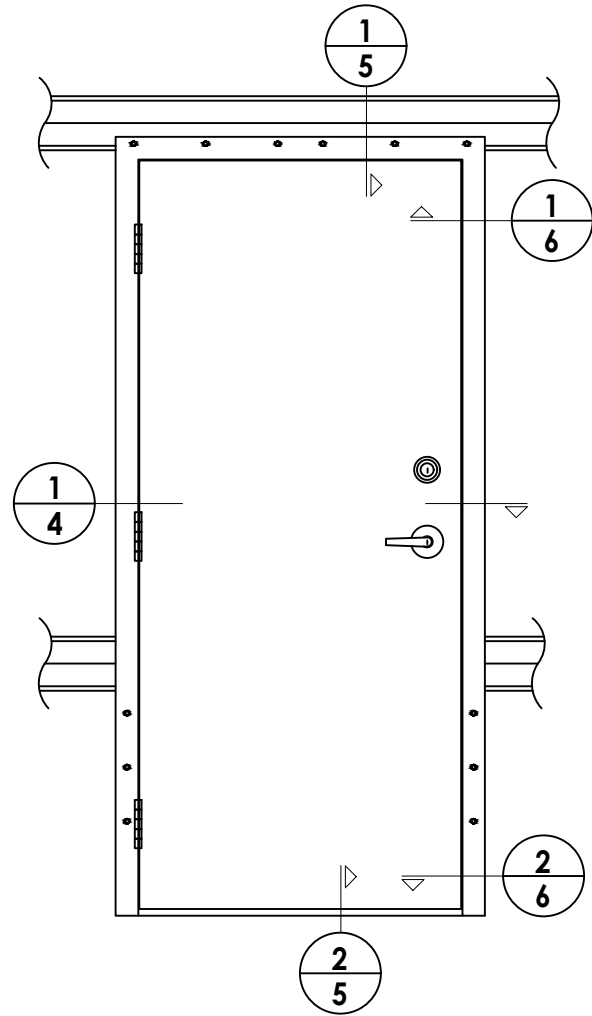
1 HORIZONTAL CROSS SECTION



2 VERTICAL CROSS SECTION

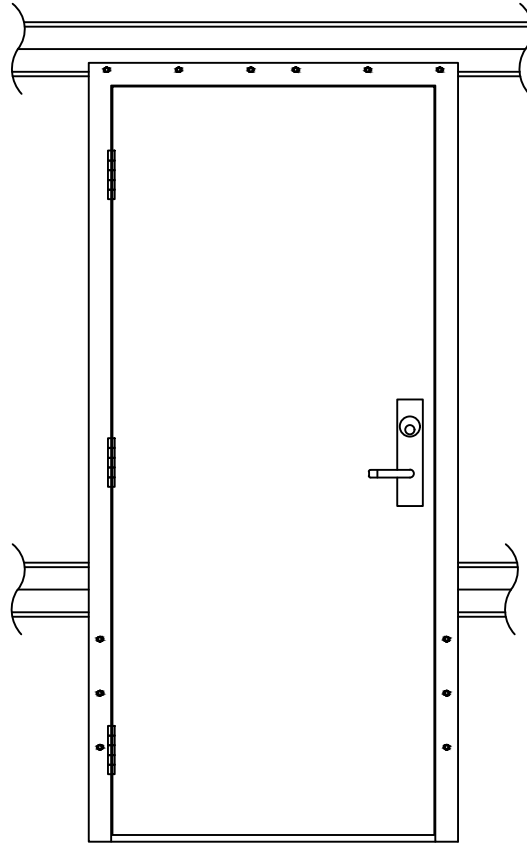
DOOR STEEL SKIN: 20 GA. (0.039" THK. STEEL)
FOAM CORE: POLYSTYRENE

[illegible]

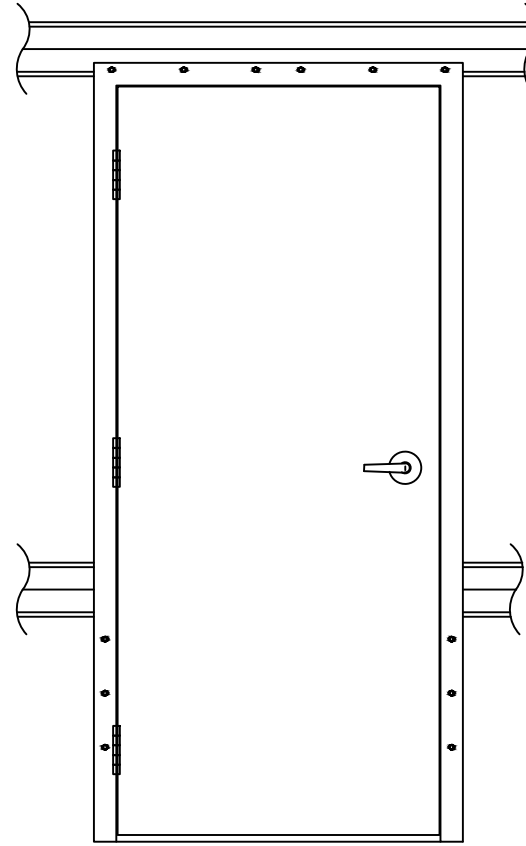


LOCK HARDWARE
<u>LATCH:</u> CAL ROYAL "PIONEER" SERIES (SL20)
<u>DEADBOLT:</u> CAL ROYAL "PIONEER" SERIES (T220)

NOTE: STEEL DOOR & FRAME ARE SHOWN AS TESTED.
ALL SUPPORT FRAMING AND CONNECTIONS ARE TO
BE DESIGNED BY THE ARCHITECT OR ENGINEER OF
RECORD.



LOCK HARDWARE
MORTISE LOCK: CAL ROYAL "NM" SERIES (NM8050)



LOCK HARDWARE
LATCH: CAL ROYAL "PIONEER" SERIES (SL20)

[illegible]

DATE: 2/28/24

SCALE: N.T.S.

DWG. BY: *RW*

CHK. BY: LFS

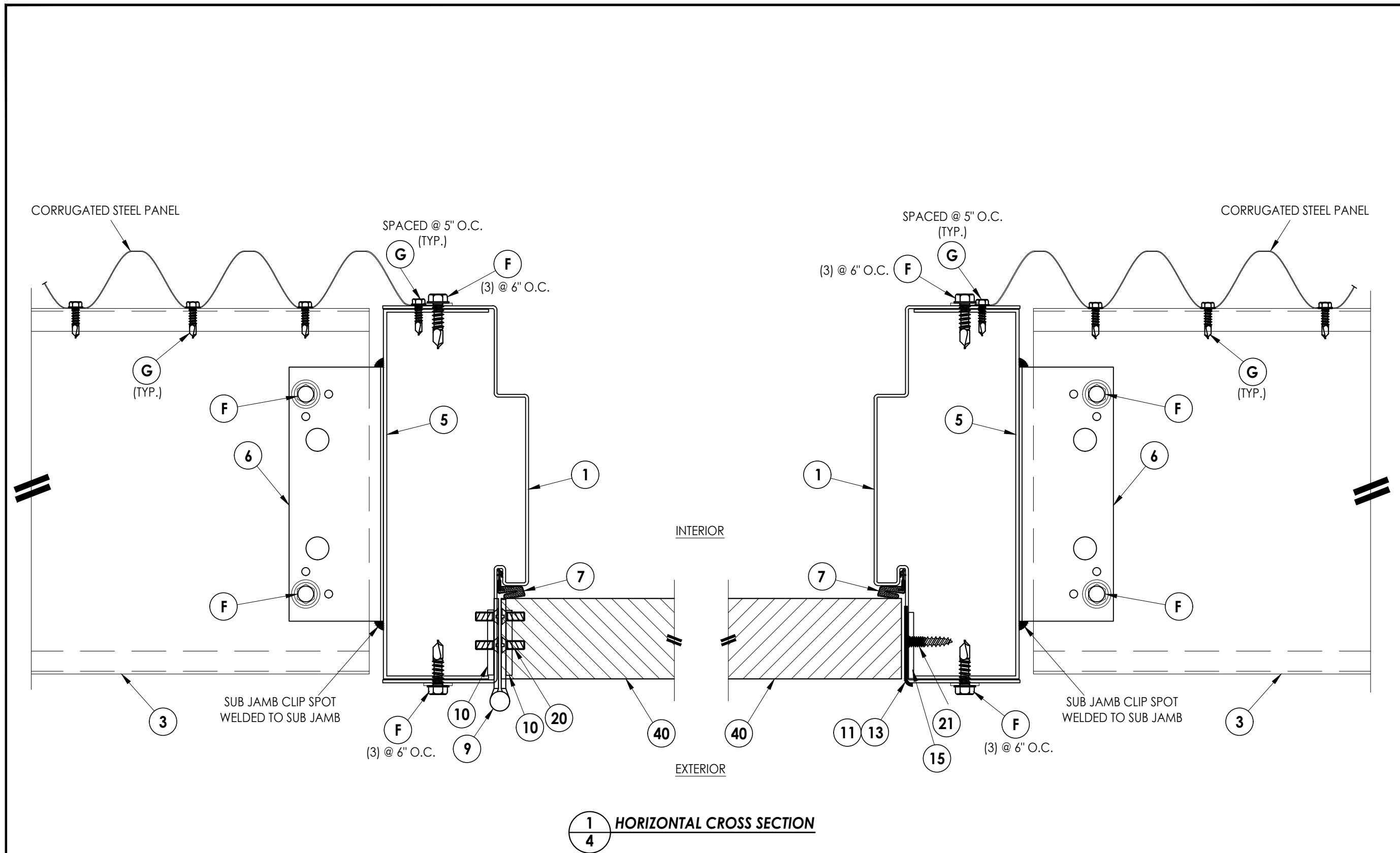
DRAWING NO.:

FL-46579.1

SHEET 3 OF 9

Documents Prepared By:
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P.E. No. 43409

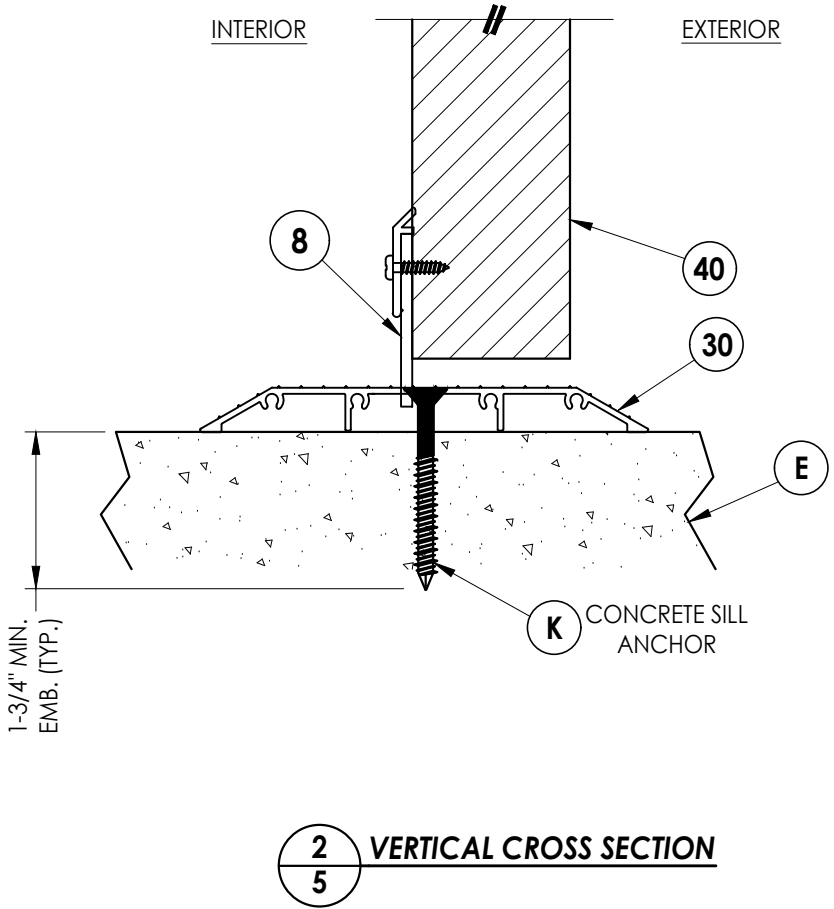
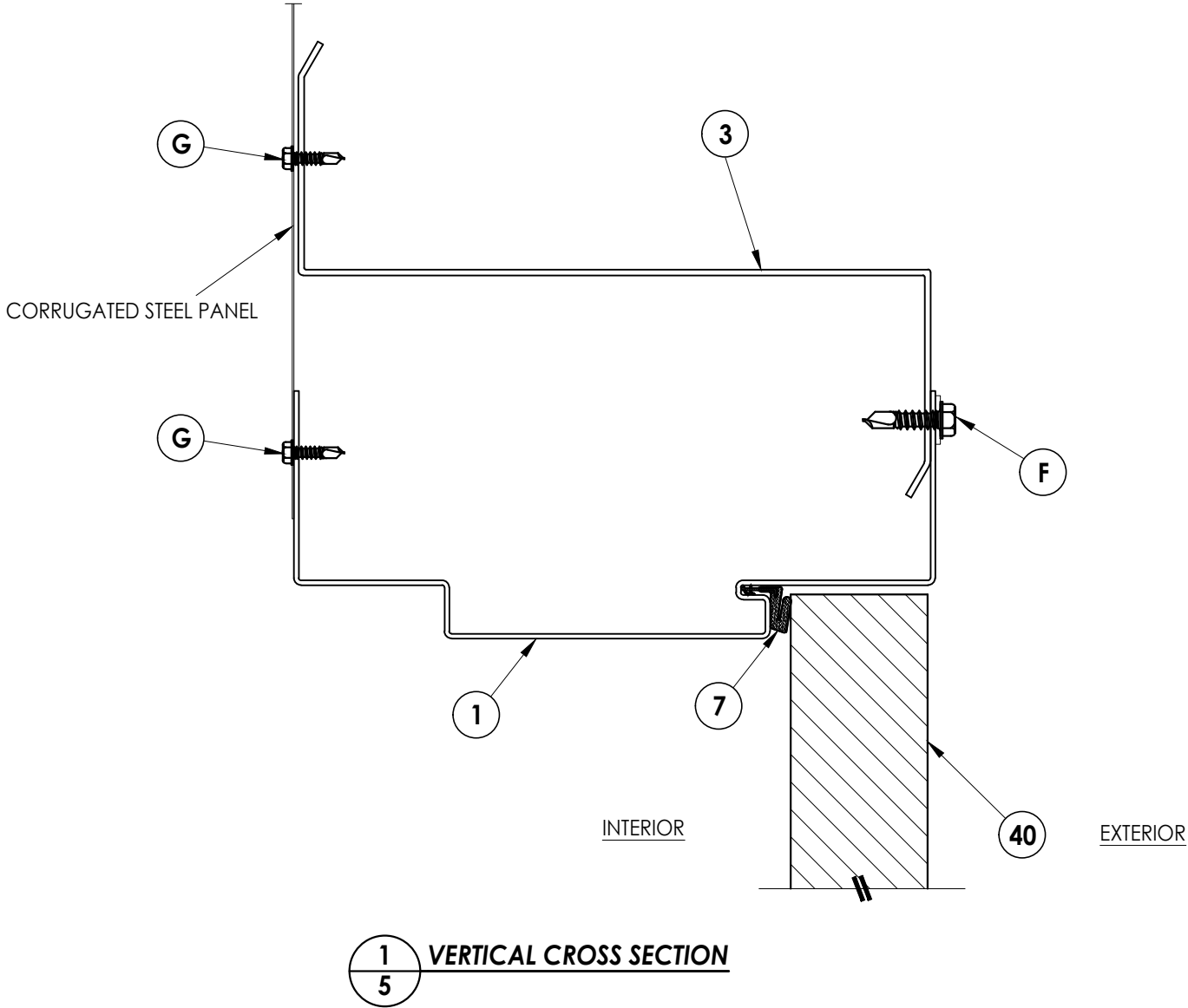
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FBPE Registry No. 9813



1 **HORIZONTAL CROSS SECTION**
4

DATE:	2/28/24		
SCALE:	N.T.S.		
DWG. BY:	RW		
CHK. BY:	LFS		
DRAWING NO.:	FL-46579.1		
SHEET	4	OF	9
NO.	DATE	BY	
		REVISIONS	
PRODUCT:		FISO DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTION	
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	

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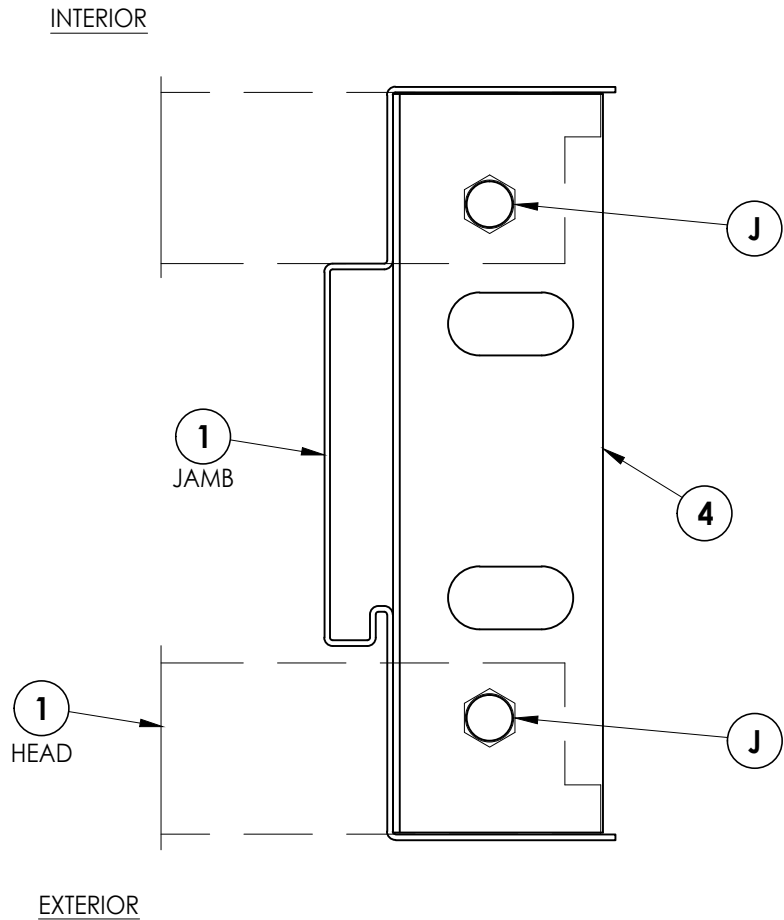
DATE: 2/28/24
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DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-46579.1
SHEET 5 OF 9

PRODUCT:		FISO DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.		DATE	
BY		REVISIONS	

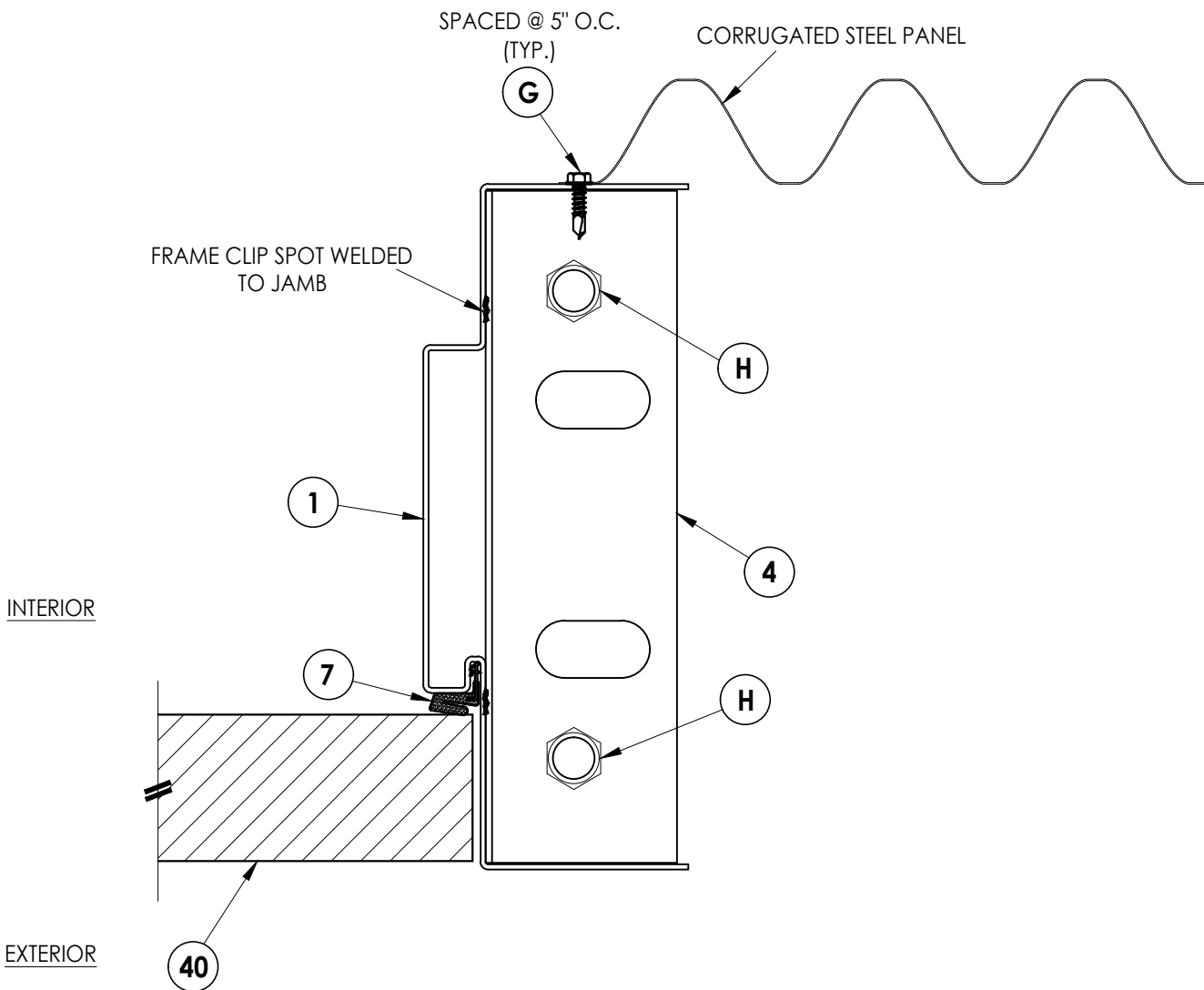
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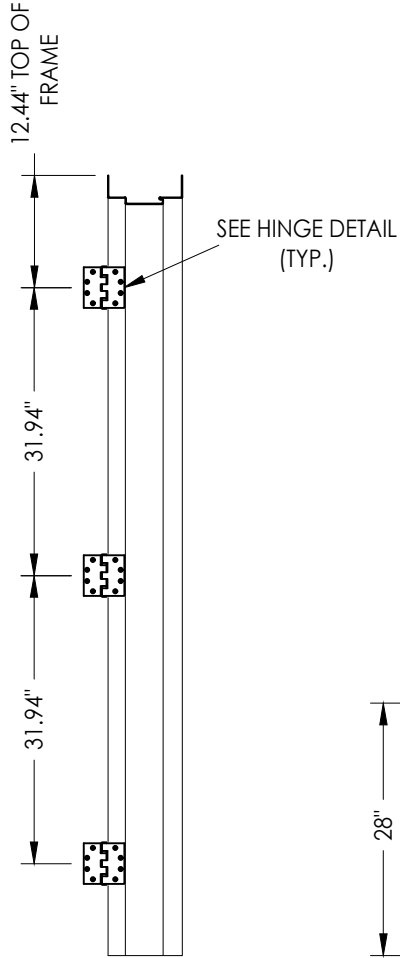
1
6 **HORIZONTAL CROSS SECTION**
@ HEAD CORNER



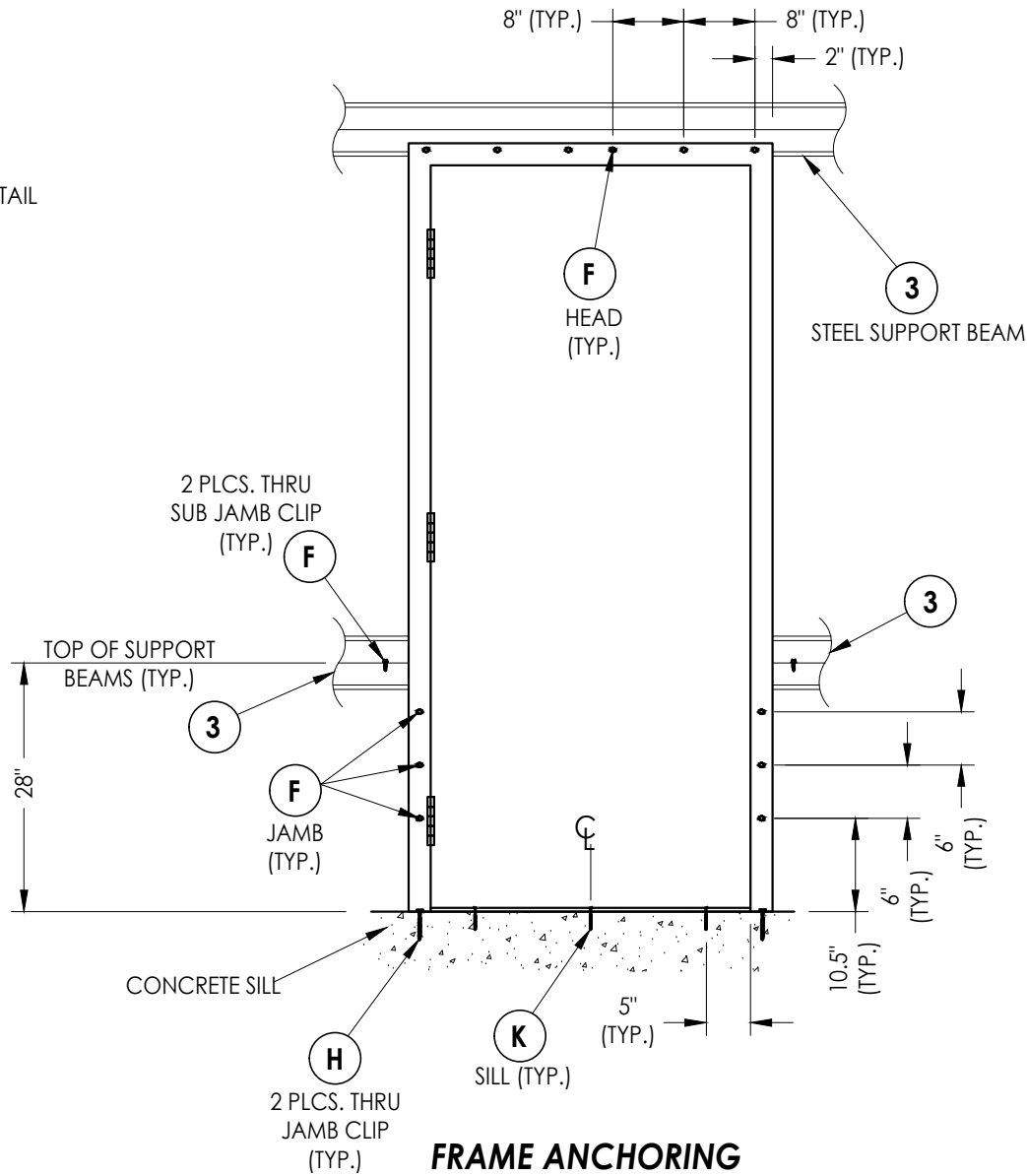
2
6 **HORIZONTAL CROSS SECTION**
@ SILL

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: FISO DOOR				PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS			

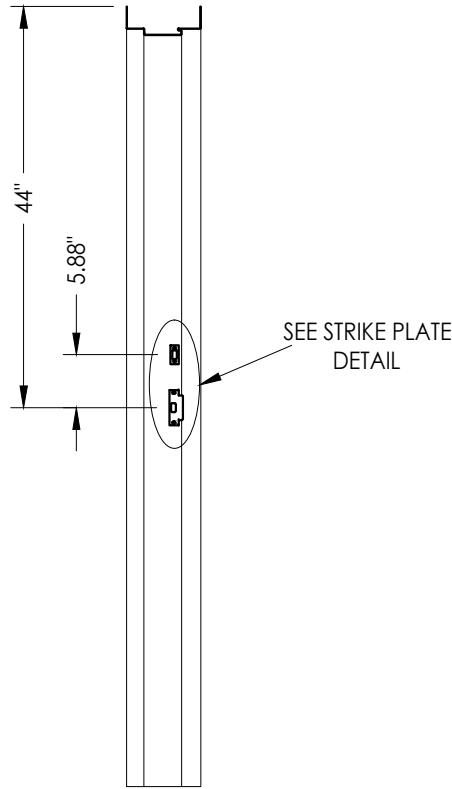
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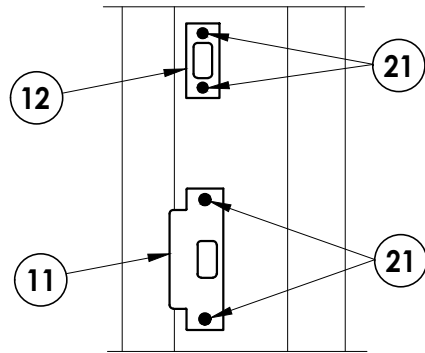
HINGE JAMB



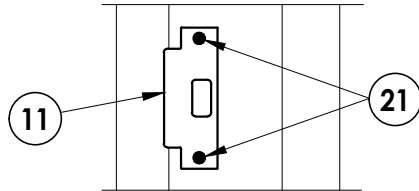
FRAME ANCHORING



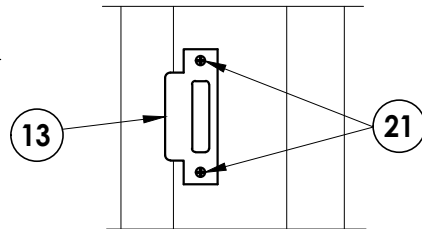
STRIKE JAMB



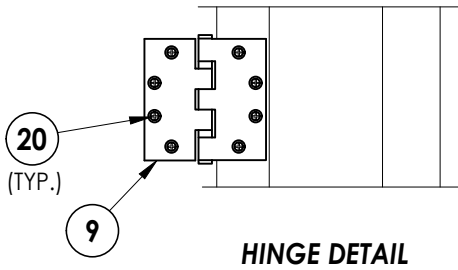
STRIKE PLATE DETAIL
LATCH & DEADBOLT



STRIKE PLATE DETAIL
LATCH ONLY



STRIKE PLATE DETAIL
MORTISE LOCK



HINGE DETAIL

METAL SCREW CONNECTORS:

All metal screw connectors shall penetrate through both sheets of steel by a minimum of three(3) threads.

CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR CALL-OUT	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	H	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	K	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT)	2-1/2"	1-3/4"

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

PRODUCT:

FISO DOOR

PART OR ASSEMBLY:

FRAME ANCHORING

DATE: 2/28/24

SCALE: N.T.S.

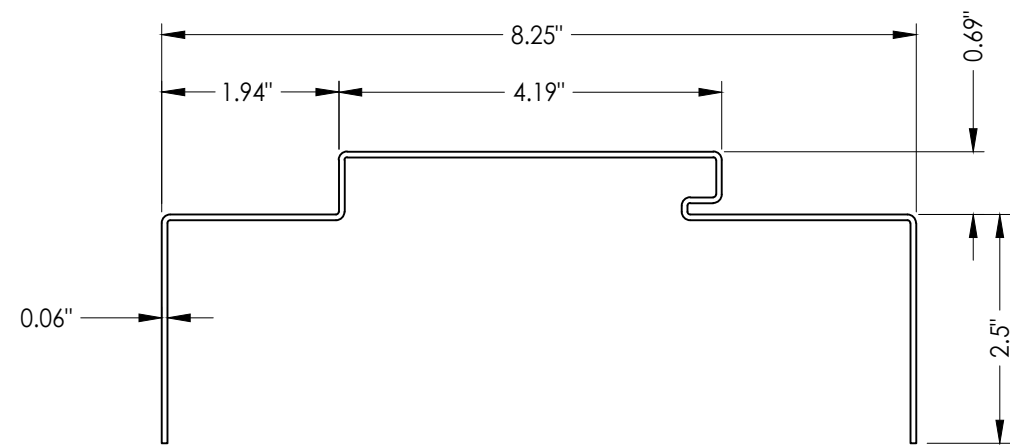
DWG. BY: RW

CHK. BY: LFS

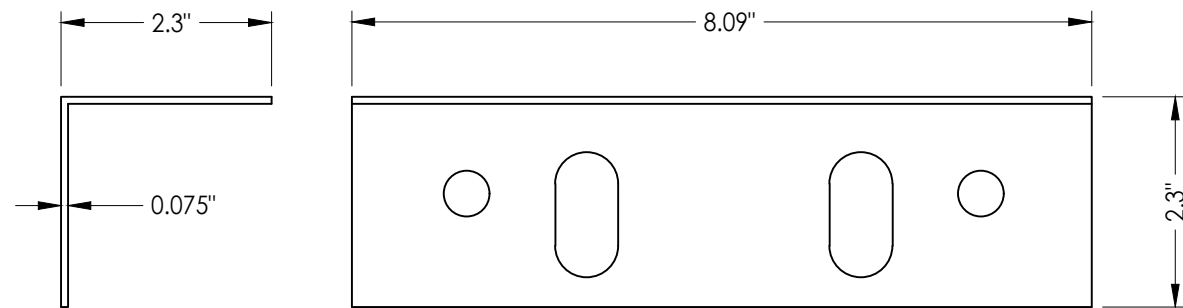
DRAWING NO.:
FL-46579.1

SHEET 7 OF 9

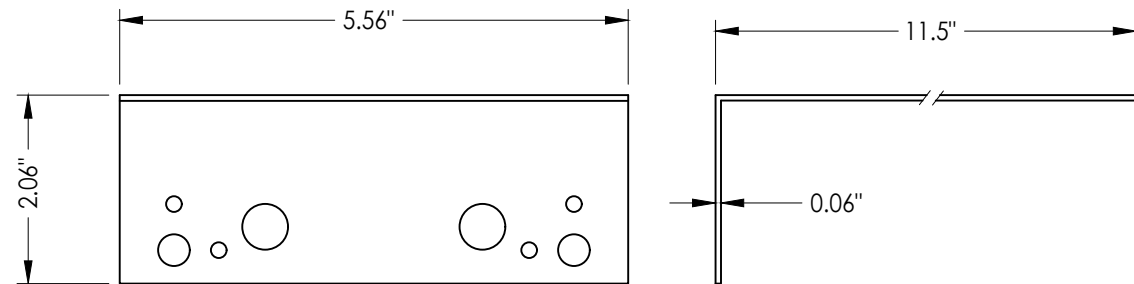
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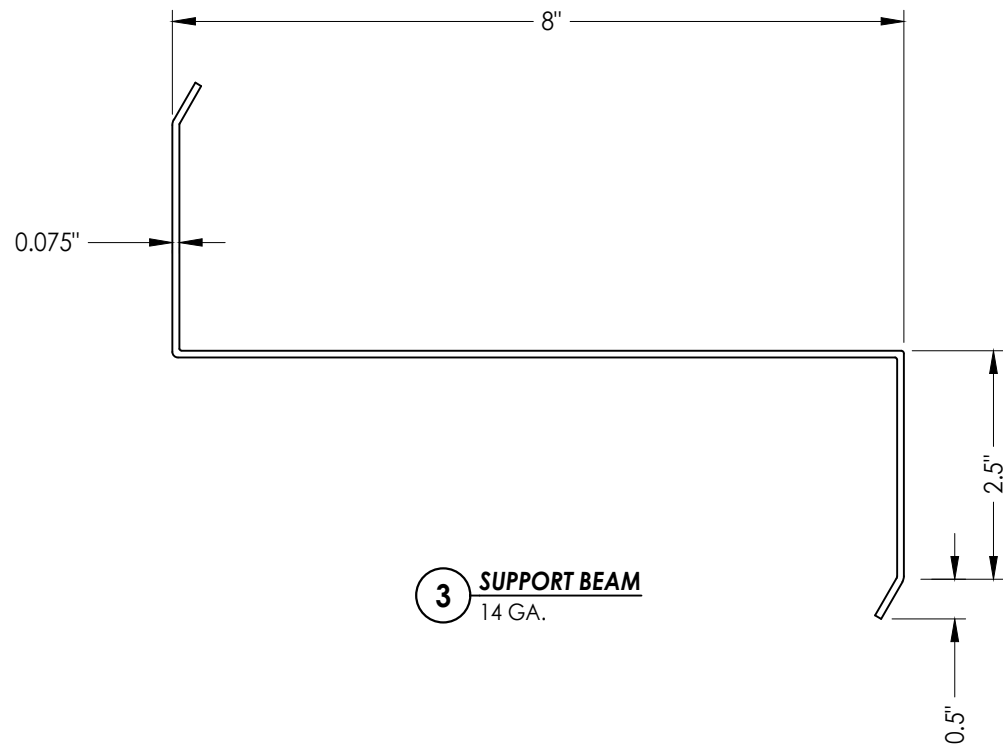
1 **FRAME**
16 GA.



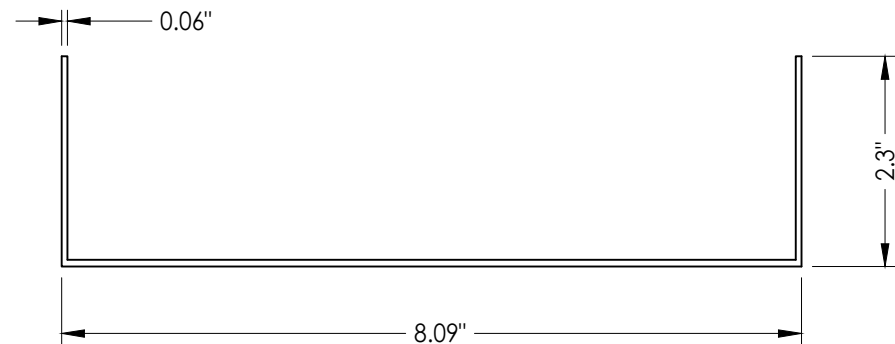
4 **FRAME CLIP**
14 GA.



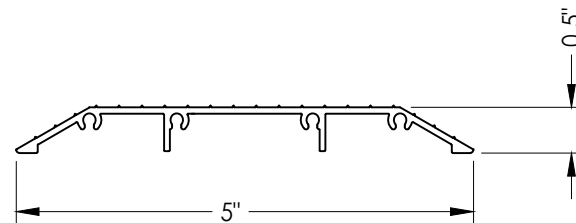
6 SUB JAMB CLIP
16 GA. - 11.5" LONG



3 SUPPORT BEAM
14 GA.



5 SUB JAMB
16 GA. - 16" LONG



30 OUTSWING ADA THRESHOLD

[illegible]

DATE:	2/28/24
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DWG. BY:	RW
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SHEET	8 OF 9

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301	CONCRETE
F	14-14 X 1" HWH SELF-DRILLING TEK SCREW w/ 5/8" WASHER	STEEL
G	10-14 X 3/4" HWH SELF-DRILLING TEK SCREW	STEEL
H	3/8" Ø X 3" LDT TAPCON CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
J	3/8" Ø X 1-1/4" THRU BOLT w/ NUT	STEEL
K	1/4" X 2-1/4" PFH DeWALT OR ITW BUILDEX CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
1	FRAME (16 GA. - A60 GALVANNEALED STEEL)	STEEL
3	SUPPORT BEAM (14 GA.)	STEEL
4	FRAME CLIP (14 GA.)	STEEL
5	SUB JAMB (16 GA. - A60 GALVANNEALED STEEL)	STEEL
6	SUB JAMB CLIP (16 GA. - A60 GALVANNEALED STEEL)	STEEL
7	WEATHERSTRIP	-
8	DOOR SWEEP	VINYL
9	4.5" X 4.5" HINGE	STEEL
10	HINGE REINFORCEMENT (7 GA.)	STEEL
11	LATCH STRIKE PLATE	STEEL
12	DEADBOLT STRIKE PLATE	STEEL
13	MORTISE LOCK STRIKE PLATE	STEEL
15	FRAME LOCK REINFORCEMENT	STEEL
20	12-24 X 1/2" FLAT HEAD MS	STEEL
21	12-24 X 1" COMBINATION MACHINE / WOOD SCREW	STEEL
30	OUTSWING ADA THRESHOLD	ALUM/COMP
40	STEEL DOOR PANEL	-

[illegible]