



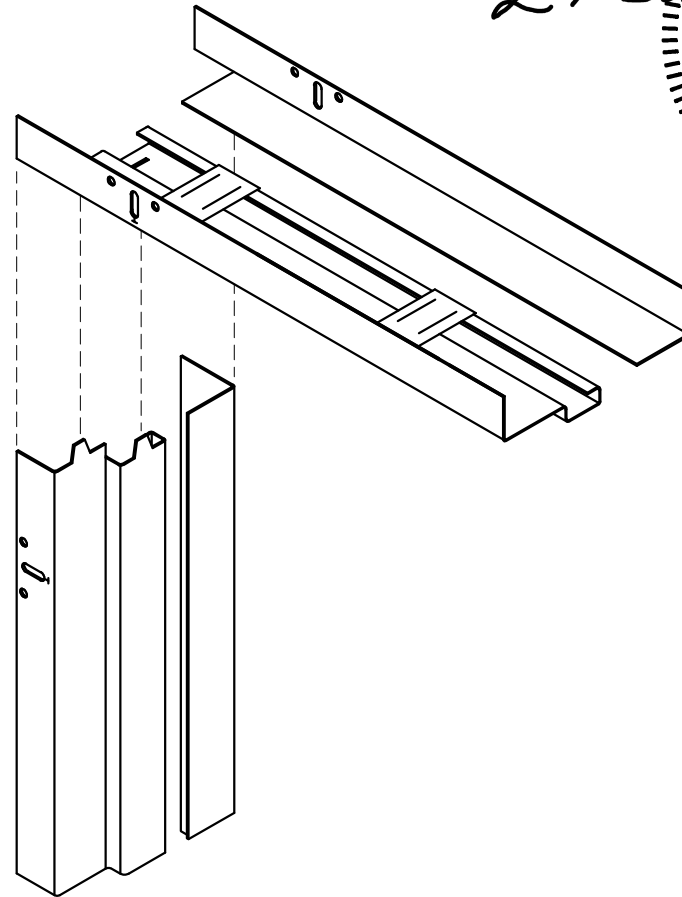
868 MURRAY ROAD, DOTHAN, AL 36303

"REDIFLEX"
TWO-PIECE STEEL FRAME SYSTEM
UTILIZING A
MASONITE OPAQUE STEEL DOOR PANEL
"IMPACT"

GENERAL NOTES

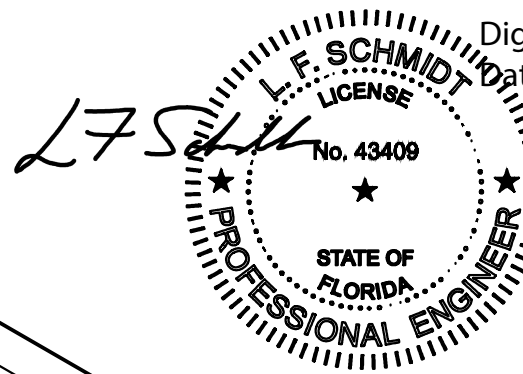
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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. 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 elevation, design pressures & general notes
2	Steel frame cross sections & details
3	Door panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Buck & frame anchoring - masonry 2x buck
7	Buck & frame anchoring - steel/2x stud
8	Bill of materials and components



REDIFLEX TWO-PIECE

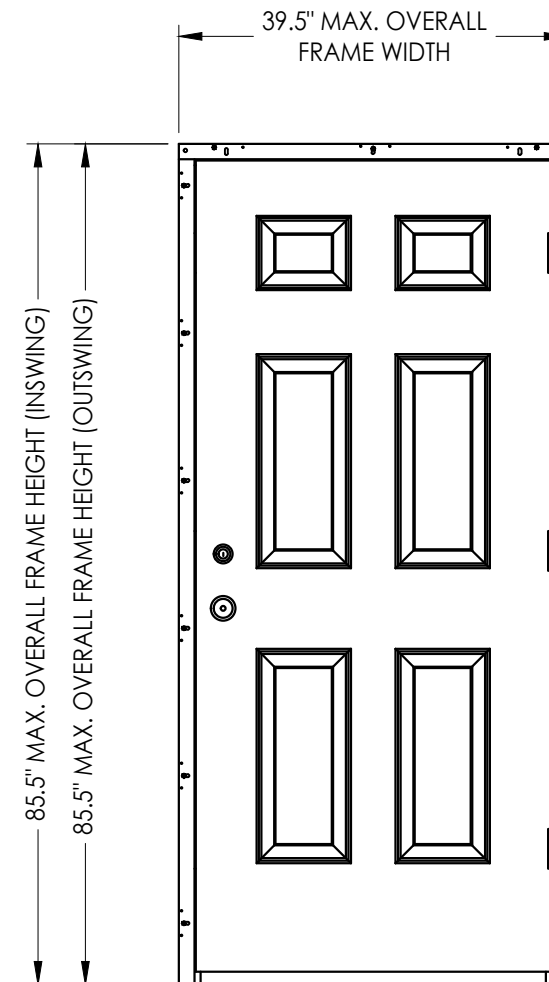
OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
39.5" X 85.5"	+ 66.0	- 66.0



Digitally signed by Lyndon F Schmidt
Date: 2023.07.19 12:06:54 -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



INSWING / OUTSWING

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

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

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

REVISIONS

NO.	DATE	DESCRIPTION
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC
2	1/27/16	REVISE ANCHORING
3	9/30/17	UPDATE TO 6TH ED. (2017) FBC
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC

DATE: 03/14/12

SCALE: N.T.S.

DWG. BY: JK

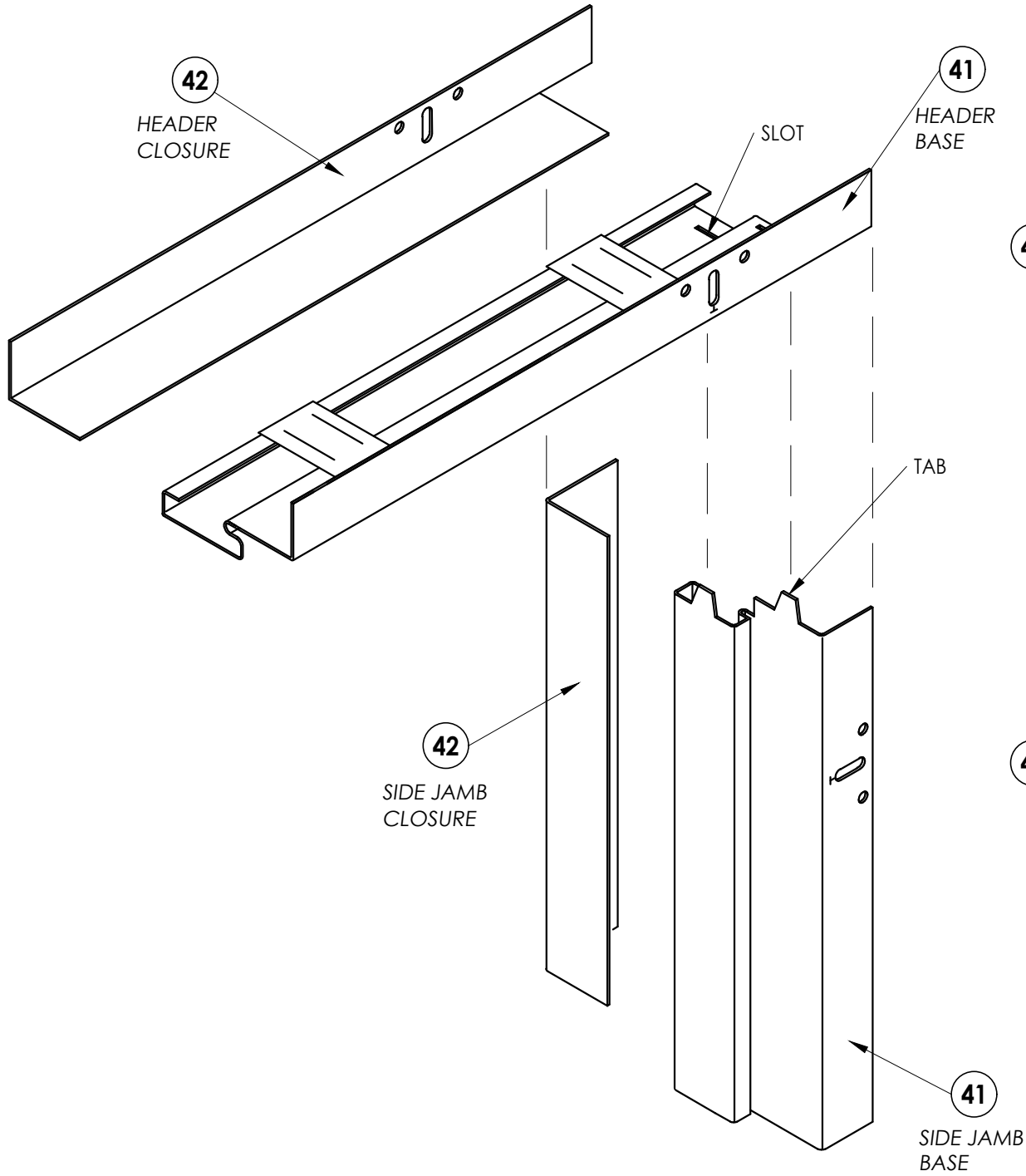
CHK. BY: LFS

DRAWING NO.: FL-15341.2

SHEET 1 OF 8

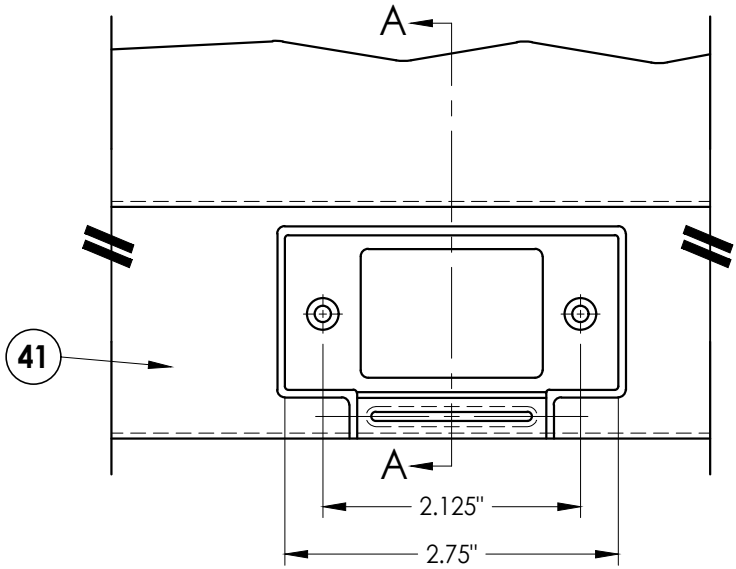
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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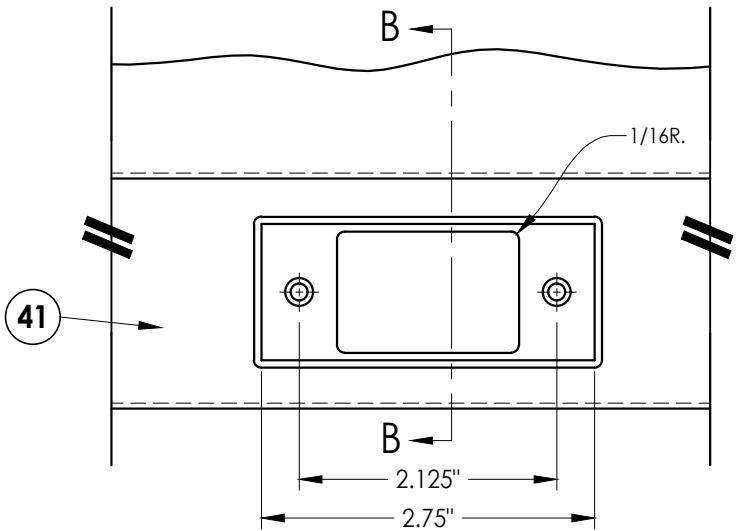


NOTES:

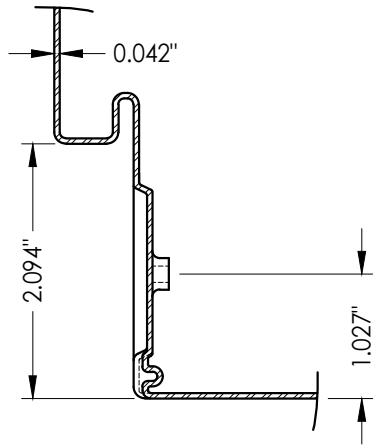
1. HEADER AND SIDE BASE JAMB (41) MINIMUM 18 GA. GALV. STEEL.
2. HEADER AND SIDE CLOSURE JAMB (42) MINIMUM 22 GA. GALV. STEEL.
3. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
4. NON-KERF FRAMES DO NOT MEET AIR AND WATER CRITERIA.



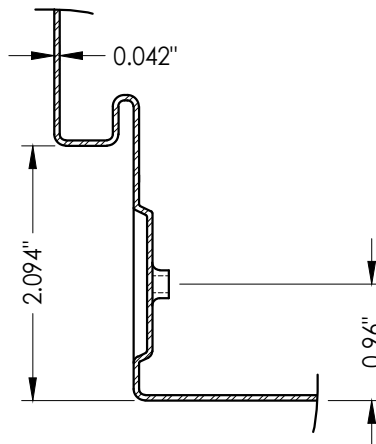
STRIKE AT LATCH



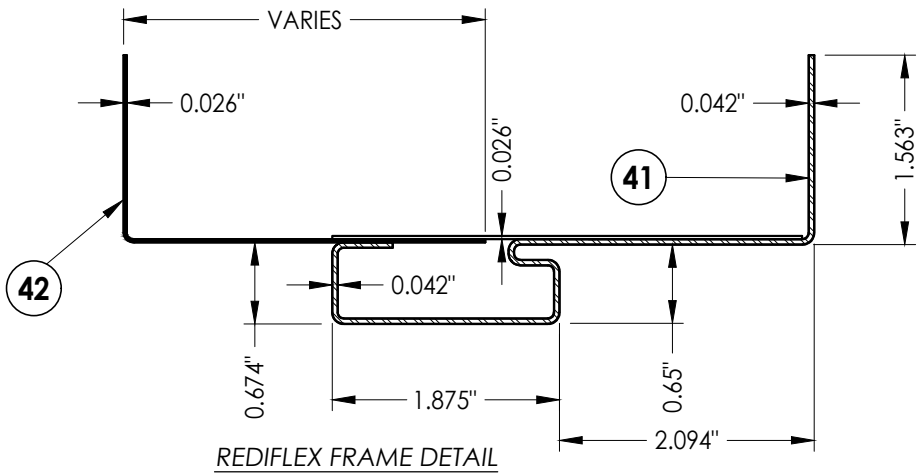
STRIKE AT DEADBOLT



SECTION A-A



SECTION B-B



REDIFLEX FRAME DETAIL

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:

DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:

STEEL FRAME CROSS SECTIONS
& DETAILS

NO.	DATE	REVISIONS
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC
3	9/30/17	UPDATE TO 6TH ED. (2017) FBC
2	1/27/16	REVISE ANCHORING
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC
NO.	DATE	BY

DATE: 03/14/12

SCALE: N.T.S.

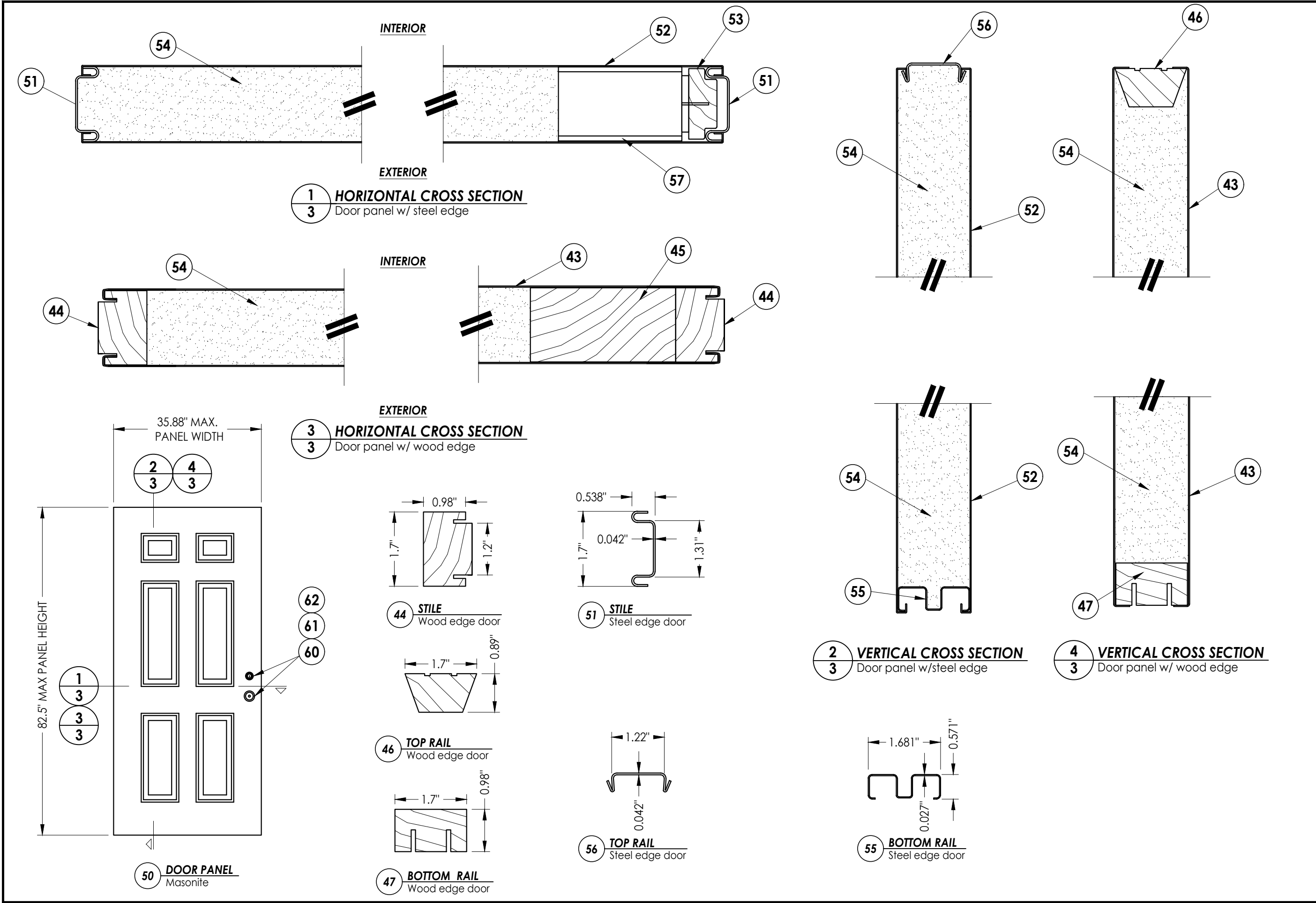
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-15341.2

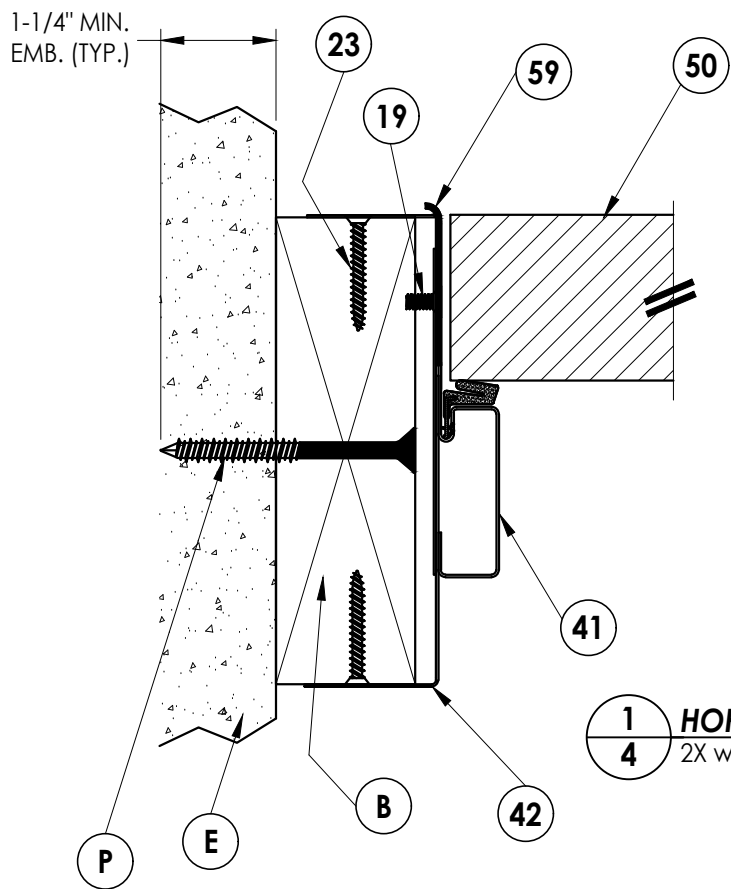
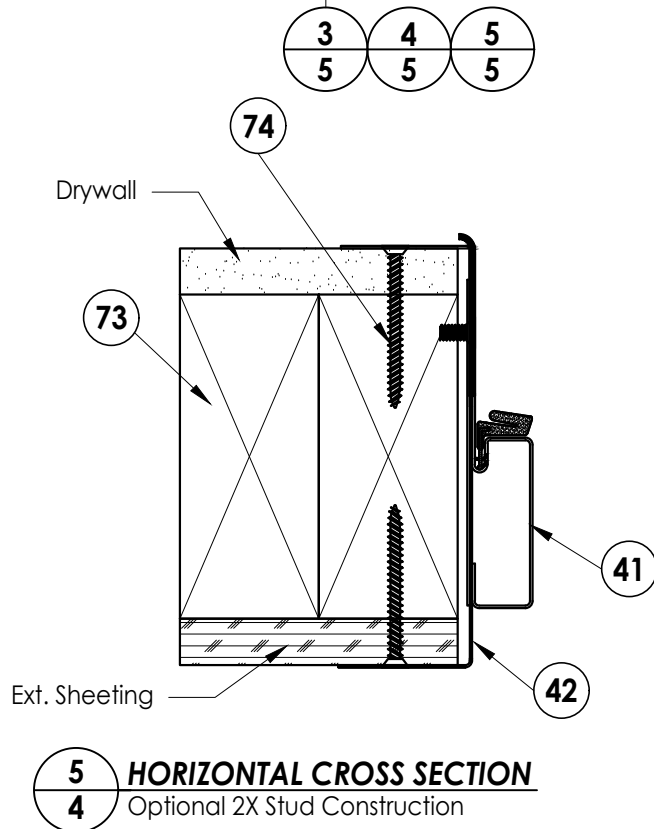
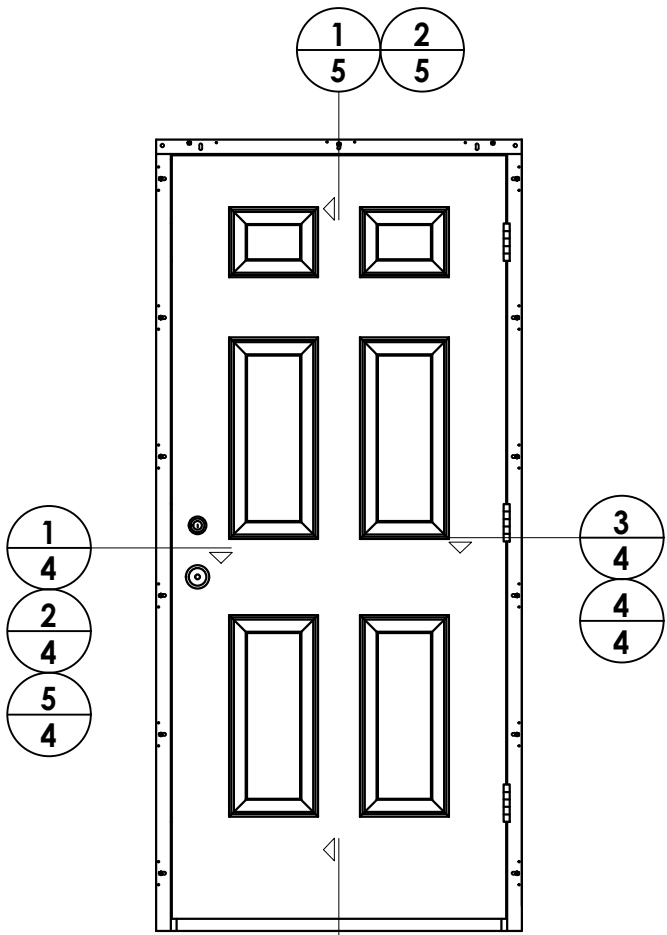
SHEET 2 OF 8

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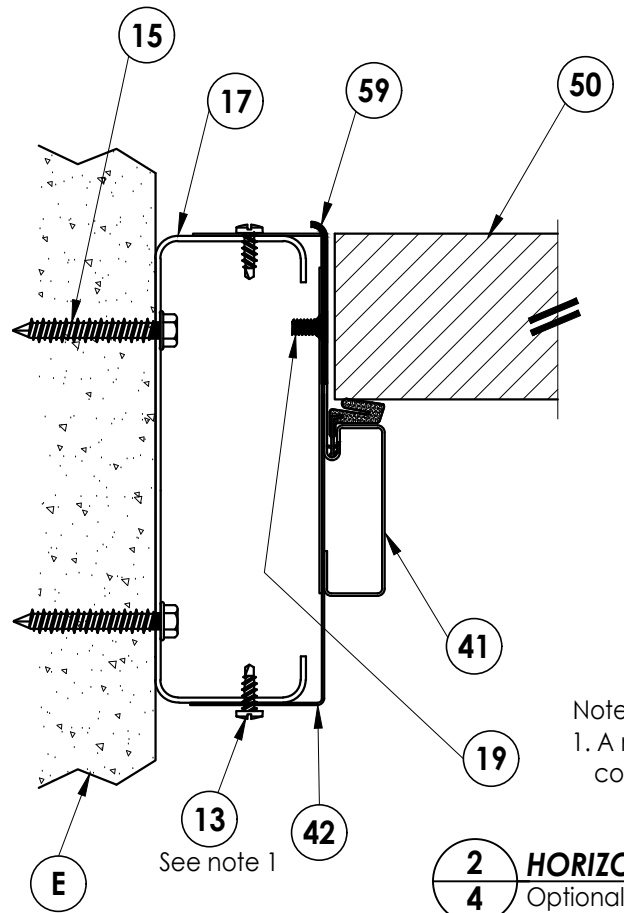


Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409	
PRODUCT:		DUNBARTON REDIFLEX		TWO-PIECE STEEL FRAME	
PART OR ASSEMBLY:		DOOR PANEL DETAILS			
DATE:		5	7/06/23	UPDATE TO 8TH ED. (2023)	FBC
SCALE:		4	8/11/20	UPDATE TO 7TH ED. (2020)	FBC
DWG. BY:		3	9/30/17	UPDATE TO 6TH ED. (2017)	FBC
CHK. BY:		2	1/27/16	REVISE ANCHORING	LFS
DRAWING NO.:		1	3/23/15	UPDATE TO 5TH ED. (2014)	FBC
SHEET		3	OF	8	
NO.		DATE	REVISIONS		
BY					

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1
4 **HORIZONTAL CROSS SECTION**
2X wood buck



2
4 **HORIZONTAL CROSS SECTION**
Optional steel stud construction

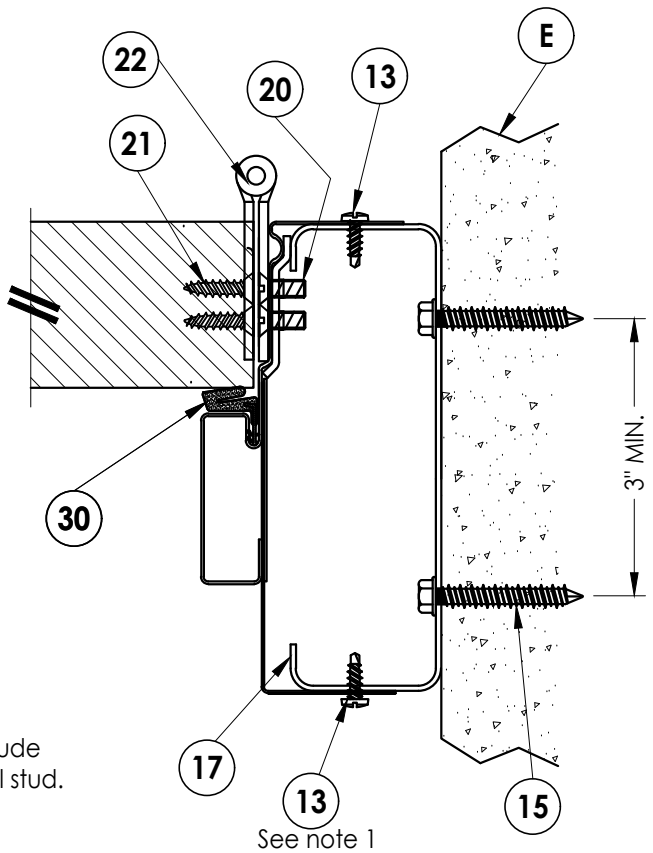
Note:
1. A minimum of three threads must protrude completely through the supporting steel stud.

INTERIOR

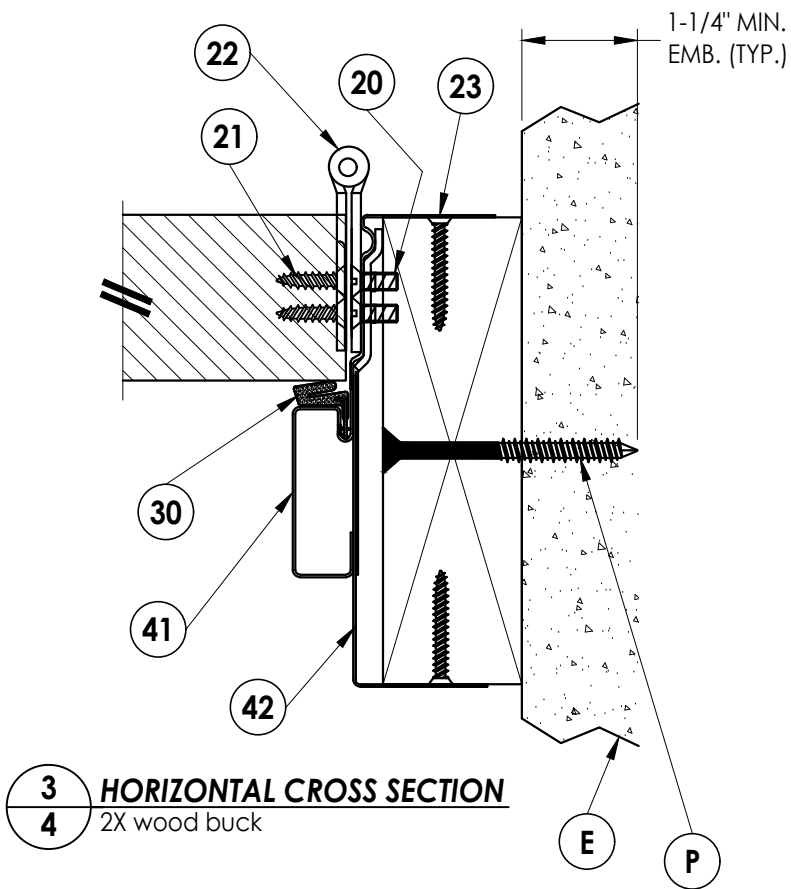
EXTERIOR

INTERIOR

EXTERIOR



4
4 **HORIZONTAL CROSS SECTION**
Optional steel stud construction



3
4 **HORIZONTAL CROSS SECTION**
2X wood buck

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:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC DAC
3	9/30/17	UPDATE TO 6TH ED. (2017) FBC LFS
2	1/27/16	REVISE ANCHORING LFS
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 03/14/12

SCALE: N.T.S.

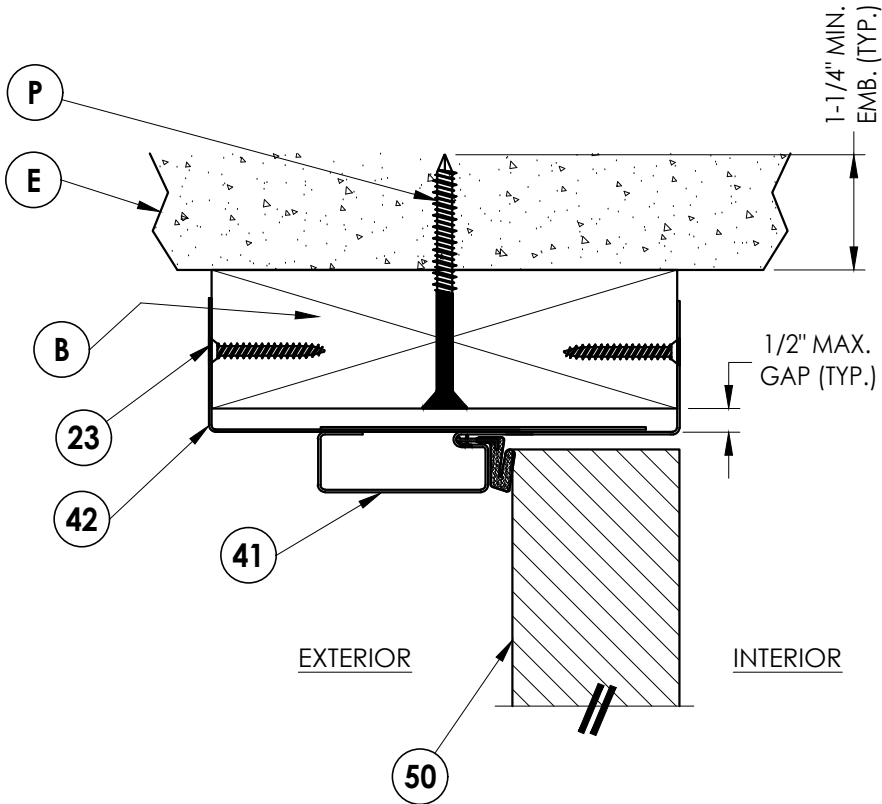
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CHK. BY: LFS

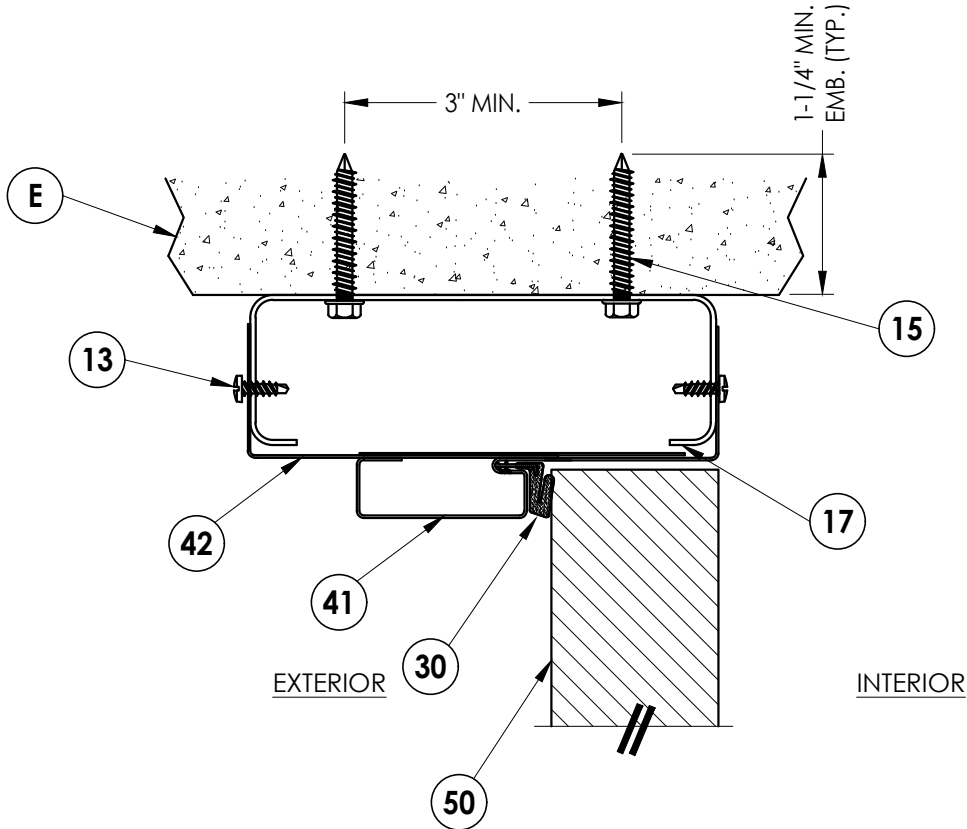
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SHEET 4 OF 8

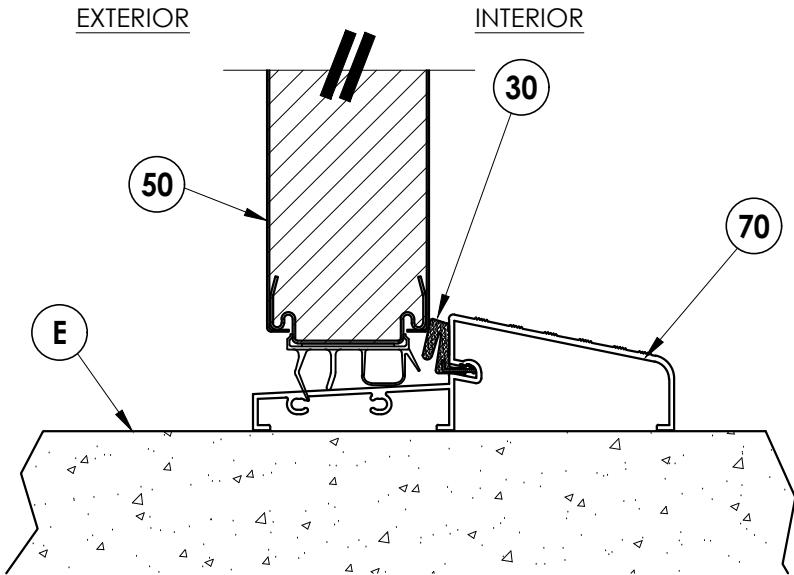
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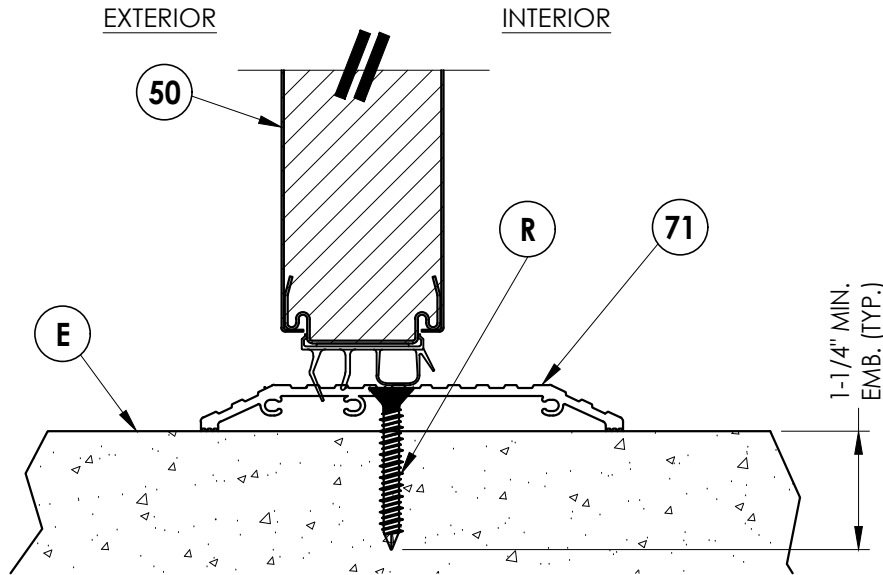
1 VERTICAL CROSS SECTION
5 2X wood buck



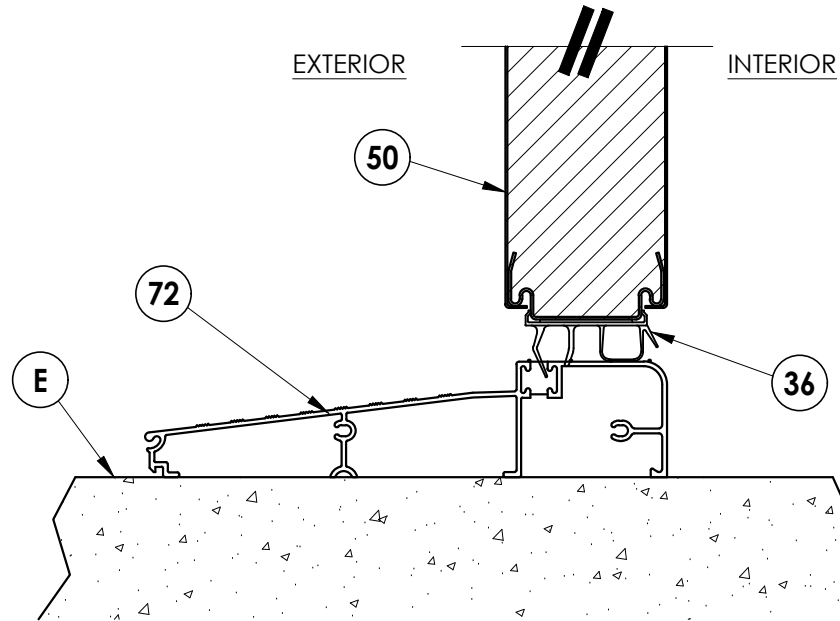
2 VERTICAL CROSS SECTION
5 Optional steel stud construction



3 VERTICAL CROSS SECTION
5



4 VERTICAL CROSS SECTION
5 Shown w/ ADA threshold



5 VERTICAL CROSS SECTION
5

Documents Prepared By:
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P.E. No. 43409

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

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PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC
3	9/30/17	UPDATE TO 6TH ED. (2017) FBC
2	1/27/16	REVISE ANCHORING
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 03/14/12

SCALE: N.T.S.

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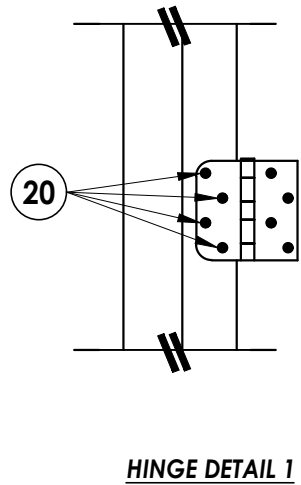
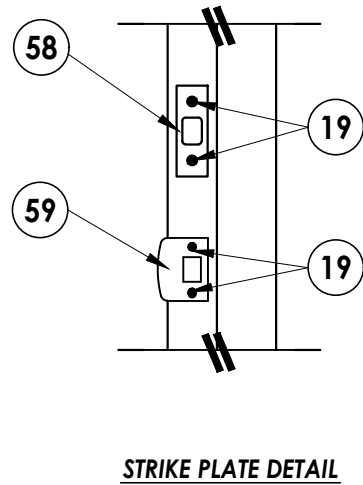
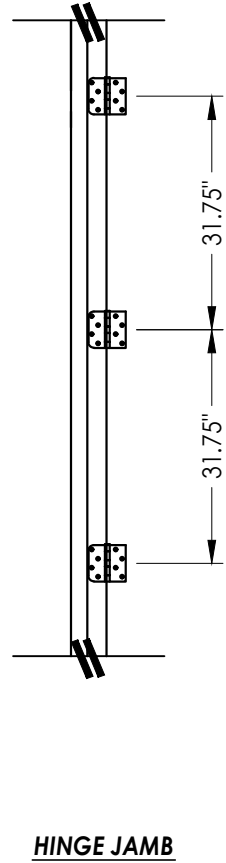
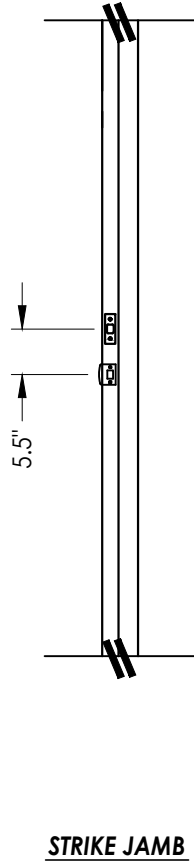
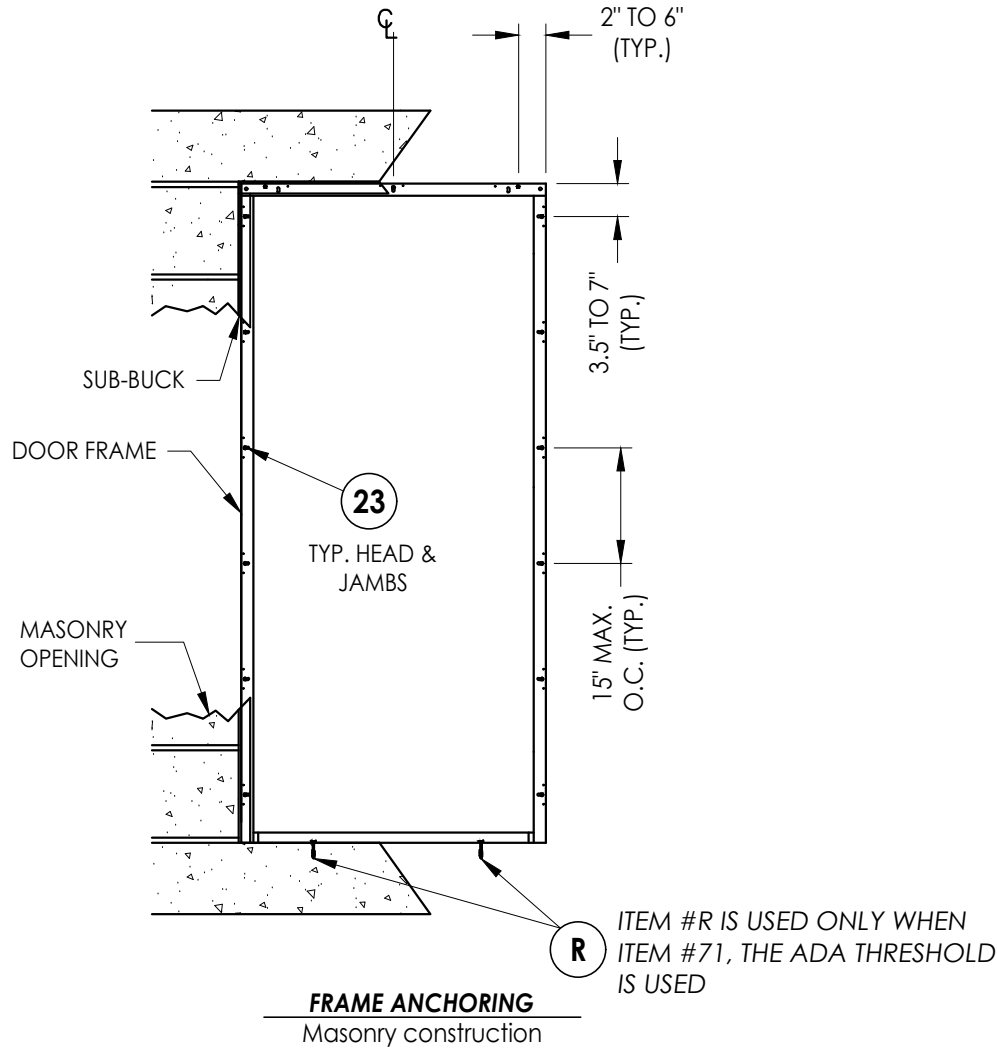
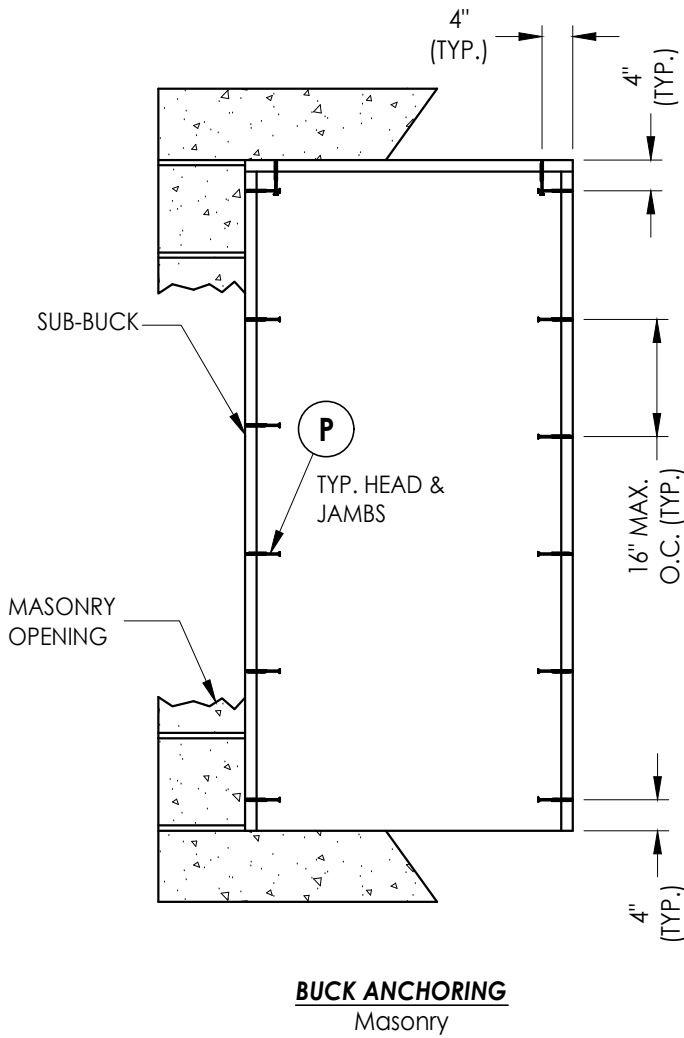
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DRAWING NO.:

FL-15341.2

SHEET 5 OF 8

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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"	4"
DeWALT ULTRACON+®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

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:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
MASONRY 2X BUCK

	5	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
	4	8/11/20	UPDATE TO 7TH ED. (2020)	FBC	DAC
	3	9/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
	2	1/27/16	REVISE ANCHORING	LFS	
	1	3/23/15	UPDATE TO 5TH ED. (2014)	FBC	JK
	NO.	DATE			BY
REVISIONS					

DATE: 03/14/12

SCALE: N.T.S.

DWG. BY: JK

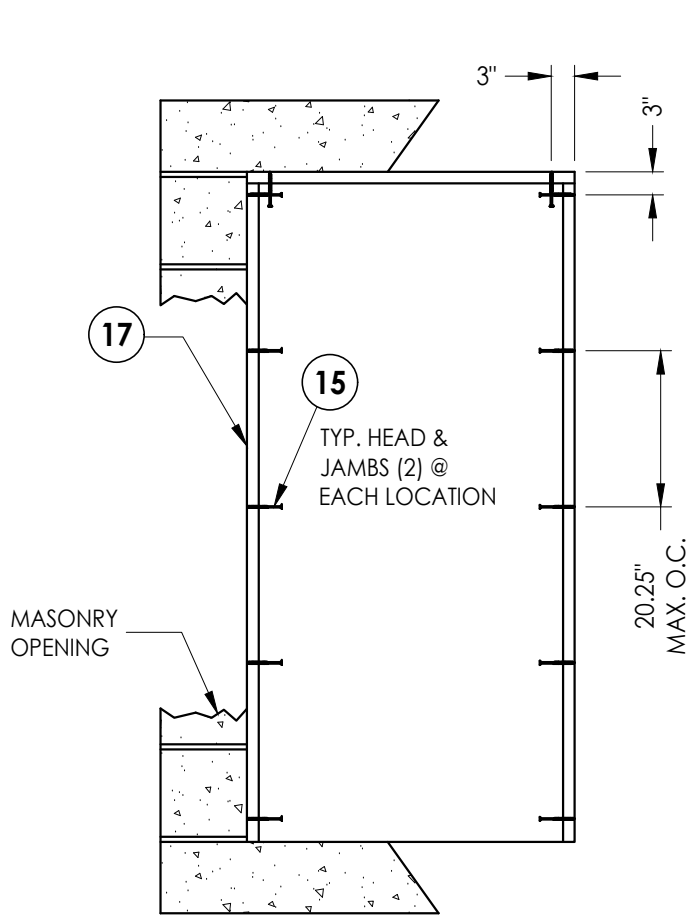
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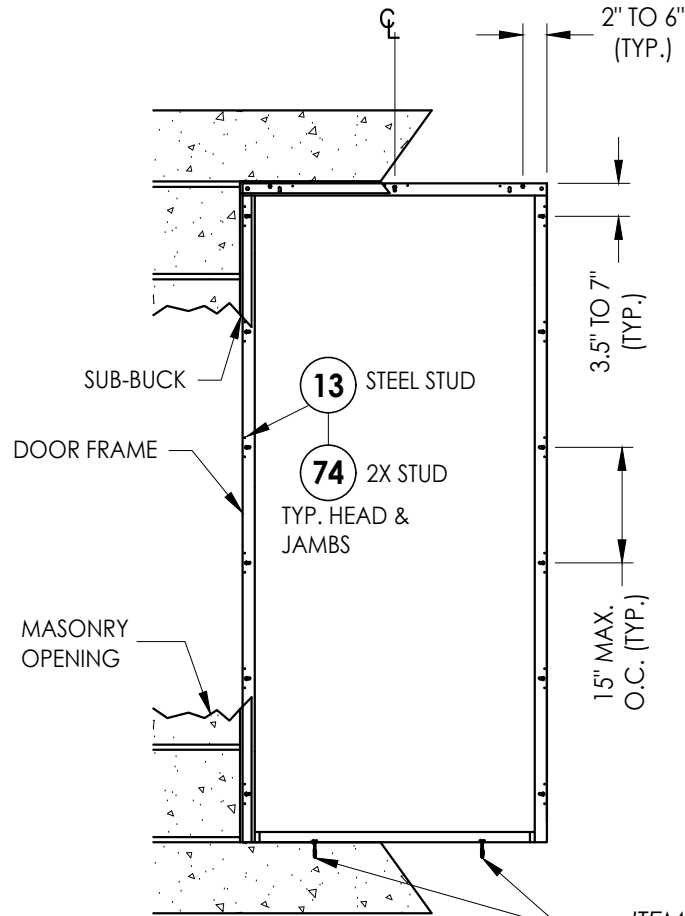
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SHEET 6 OF 8

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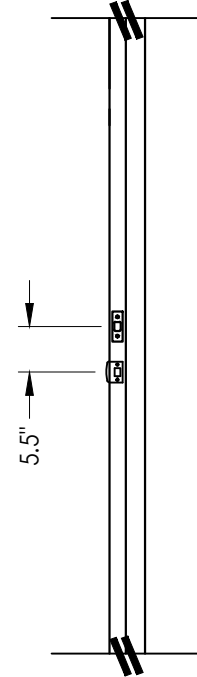


BUCK ANCHORING
Steel stud

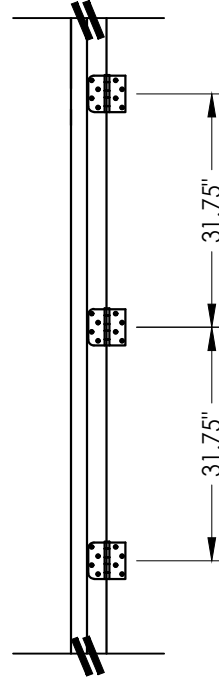


FRAME ANCHORING
Stud construction

ITEM #R IS USED ONLY WHEN
ITEM #71, THE ADA THRESHOLD
IS USED



STRIKE JAMB



HINGE JAMB

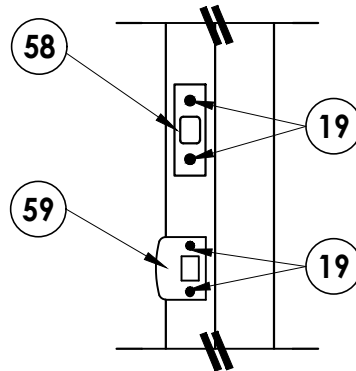
CONCRETE ANCHOR NOTES:

- 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:

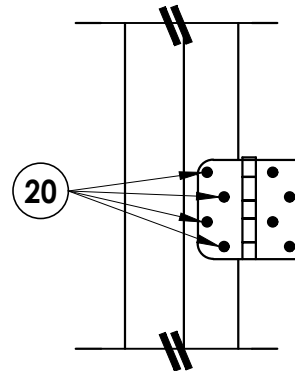
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4" / 3" (steel stud)
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



STRIKE PLATE DETAIL



HINGE DETAIL 1

NO.	DATE	REVISIONS			
		NO.	DATE	BY	DESCRIPTION
5	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
4	8/11/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
3	9/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
2	1/27/16	REVISE ANCHORING		LFS	
1	3/23/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 03/14/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-15341.2

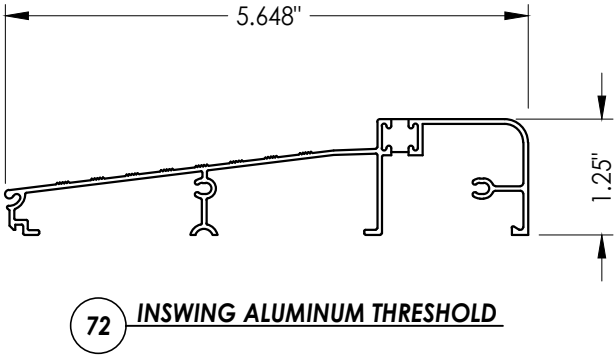
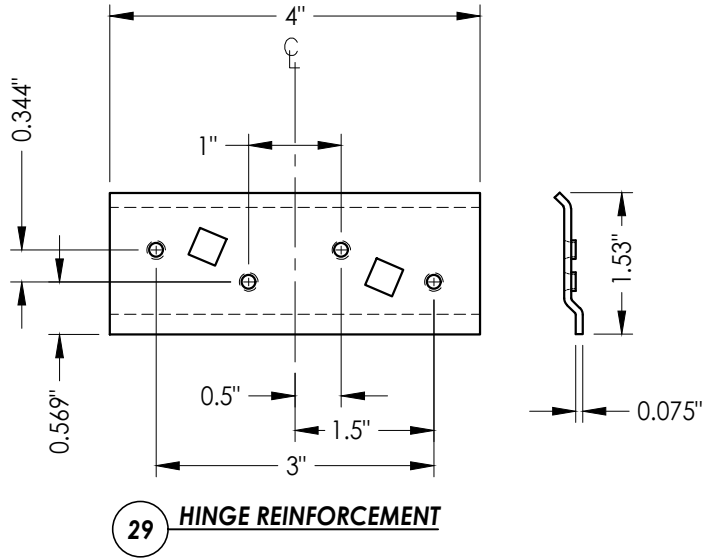
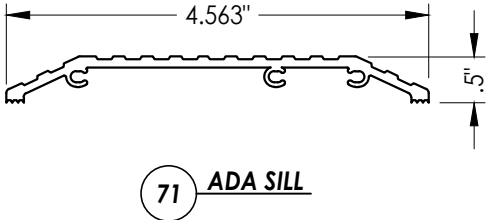
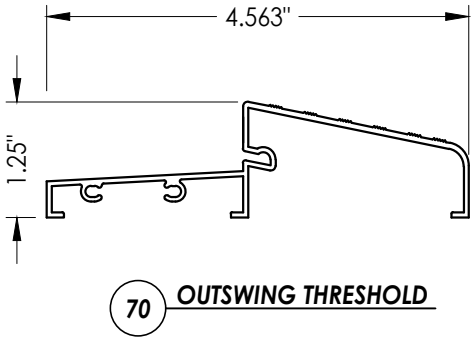
SHEET 7 OF 8

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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 OR ASTM A653 STEEL	CONCRETE
P	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
R	1/4" X 1-3/4" ITW PFH CONCRETE SCREW	STEEL
13	#10 X 3/4" HILTI KWIK-FLEX SELF-DRILLING SCREW	STEEL
15	1/4" X 1-3/4" ITW HWH CONCRETE SCREW	STEEL
17	SSMA STUD 550S162-54 (Fy = 33 ksi, Fu = 45 ksi)	STEEL
19	#8 x 3/8" PFH MACHINE SCREW	STEEL
20	10-24 X 1/2" FLAT HEAD SCREW	STEEL
21	#9 X 1.0" PFH WOOD SCREW	STEEL
22	4" X 4" BUTT HINGE	STEEL
23	#6 X 1-1/4 PFH WOOD SCREW (1-1/8" MIN. EMBEDMENT)	STEEL
29	JAMB HINGE REIN. 14 GA. 4" x 4" x 1.53" (.075" GALV. STEEL) BY DUNBARTON FR00505	STEEL
30	COMPRESSION WEATHERSTRIPPING QLON QDS 650 BY SCHLEGEL	FOAM
36	DOOR BOTTOM SWEEP by DUNBARTON	PVC
41	REDIFLEX JAMB BASE 18 GA. (.042" MIN. GALV. STEEL) BY DUNBARTON	STEEL
42	REDIFLEX JAMB CLOSURE 22 GA. (.026" MIN. GALV. STEEL) BY DUNBARTON	STEEL
43	DOOR PANEL .020" THK. GALV. STEEL, WOOD EDGE BY MASONITE	STEEL
44	WOOD LOCK STILE 1.708" x .970" BY MASONITE	WOOD
45	WOOD LOCK BLOCK 1.708" x 3.375" x 10.75" F. J. PINE BY MASONITE	WOOD
46	WOOD TOP RAIL 1.708" x .908" BY MASONITE	WOOD
47	WOOD BOTTOM RAIL 1.708" x 1.010" BY MASONITE	WOOD
50	STEEL DOOR PANEL - BY MASONITE	STEEL
51	SIDE STILE 0.043" ROLL FORMED STEEL BY MASONITE	STEEL
52	DOOR PANEL 0.020" THK. GALV. STEEL, STEEL EDGE BY MASONITE	STEEL
53	WOOD LOCK REIN. FINGER JOINTED PINE BY MASONITE	WOOD
54	POLYURETHANE FOAM CORE	POLYURETHANE
55	BOTTOM RAIL .032" THK. ROLL FORMED STEEL BY MASONITE	STEEL
56	TOP RAIL .043" THK ROLL FORMED STEEL BY MASONITE	STEEL
57	PLASTIC LOCK RING	PLASTIC
58	STRIKE PLATE - DEADBOLT	STEEL
59	STRIKE PLATE - LATCHBOLT	STEEL
60	EVERSEF LATCH w/ EVERSEF DEADBOLT	STEEL
61	KWIKSET SERIES LATCH w/ KWIKSET SERIES (660) DEADBOLT	STEEL
62	SCHLAGE LATCH (F SERIES) w/ SCHLAGE DEADBOLT (B60/62)	STEEL
70	OUTSWING BUMP THRESHOLD by ENDURA	ALUM
71	ADA THRESHOLD by ENDURA	ALUM
72	INSWING FIXED THRESHOLD BY ENDURA	ALUM
73	2X FRAMING: SG >= 0.42	WOOD
74	#8 x 1-3/4" PFH SMS (1-1/8" MIN. EMBEDMENT)	STEEL



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: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS		
5	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	8/11/20	UPDATE TO 7TH ED. (2020)	FBC	DAC
3	9/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
2	1/27/16	REVISE ANCHORING		LFS
1	3/23/15	UPDATE TO 5TH ED. (2014)	FBC	JK
NO.	DATE			BY
REVISIONS				
DATE: 03/14/12				
SCALE: N.T.S.				
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