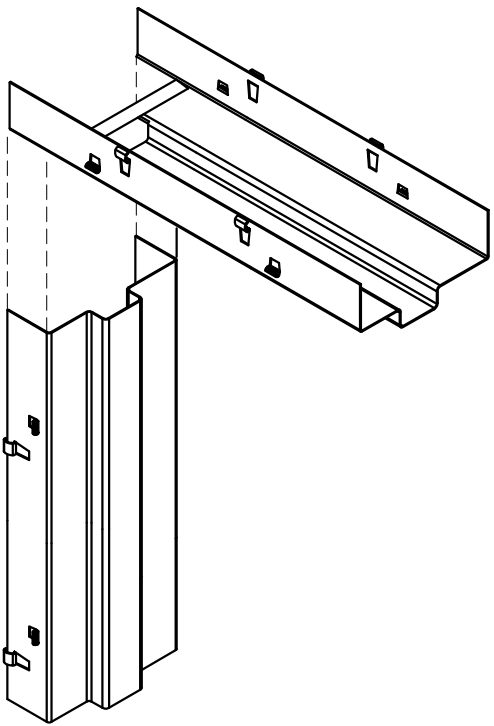


"REDIFRAME"
ONE-PIECE STEEL FRAME SYSTEM
UTILIZING A
JELD-WEN OPAQUE STEEL DOOR PANEL
"IMPACT"

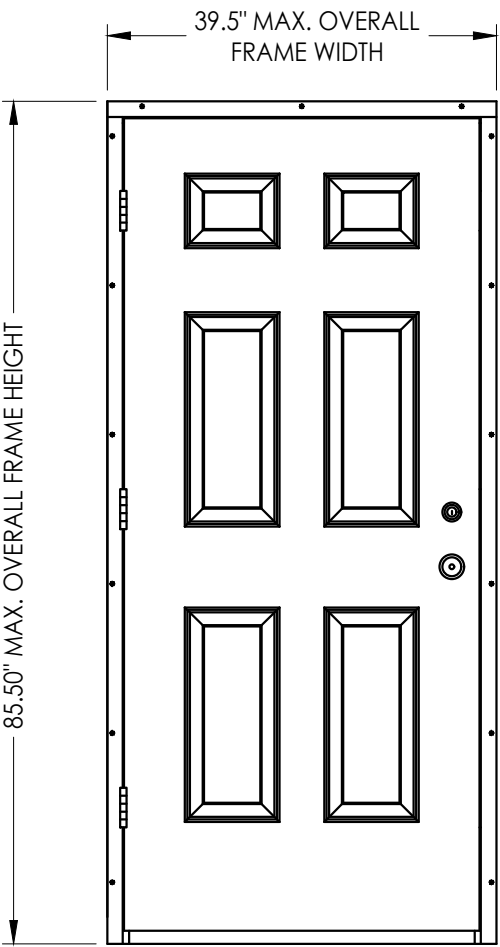
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including 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 the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" 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.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Outswing configurations using high water dam threshold item #70 meet water infiltration requirements for "HVHZ".
Inswing configurations and outswing configurations using sill item #71 and #72 do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
8. When used in the "HVHZ", steel shall be protected as specified in FBC Section 2222.6.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Steel frame cross sections & details
3	Door panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Buck and frame anchoring - 2X buck
7	Buck and frame anchoring - steel stud
8	Bill of materials and components



REDIFRAME ONE-PIECE



INSWING OR OUTSWING

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
11:57:10 -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

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

PRODUCT: DUNBARTON RED/FRAME ONE-PIECE STEEL FRAME

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

4	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	8/12/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC
2	9/29/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
1	3/24/15	UPDATE TO 5TH ED.	(2014)	FBC	JK
NO.	DATE				
					REVISIONS

DATE: 3/14/12

SCALE: N.T.S.

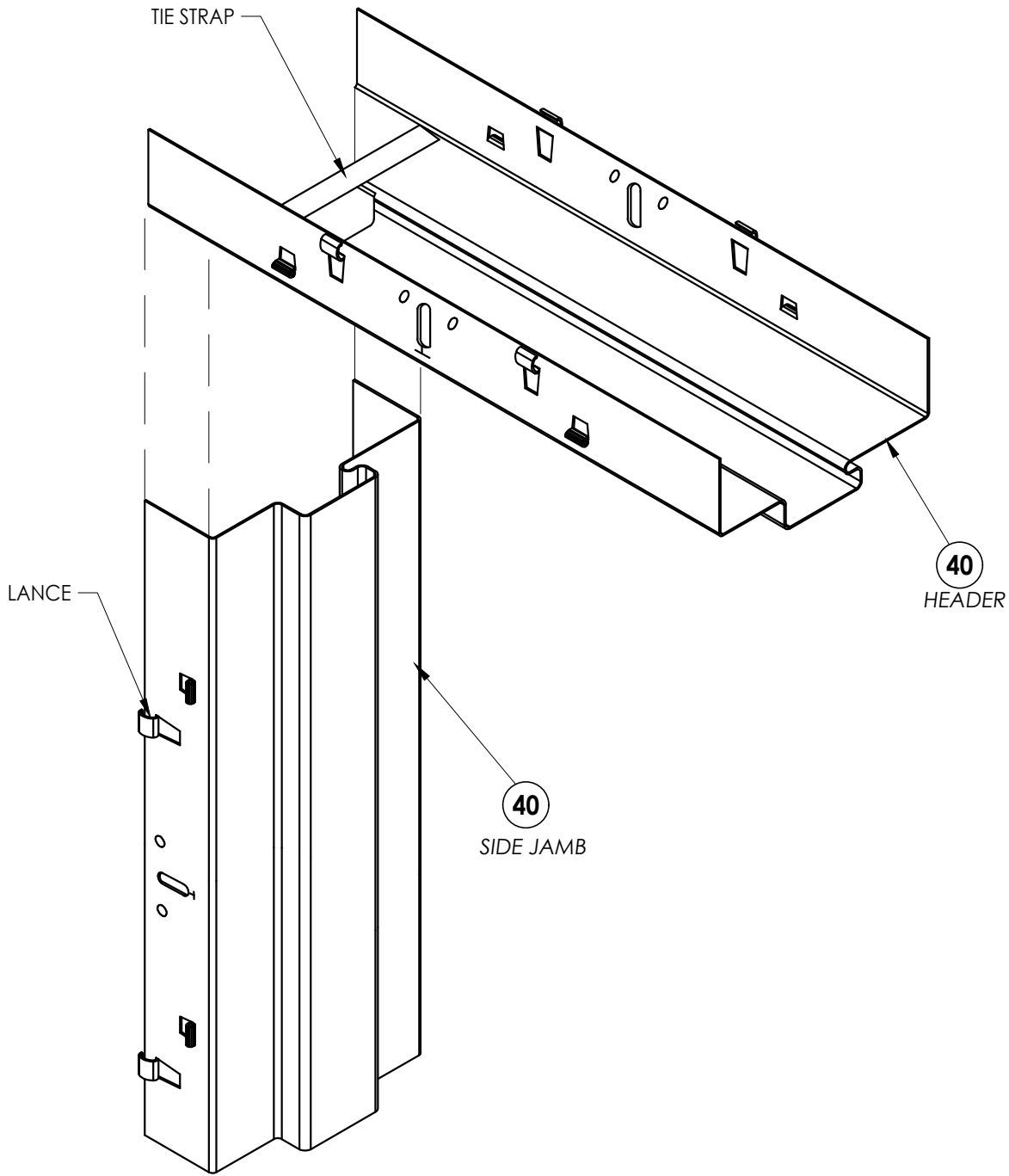
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CHK. BY: LFS

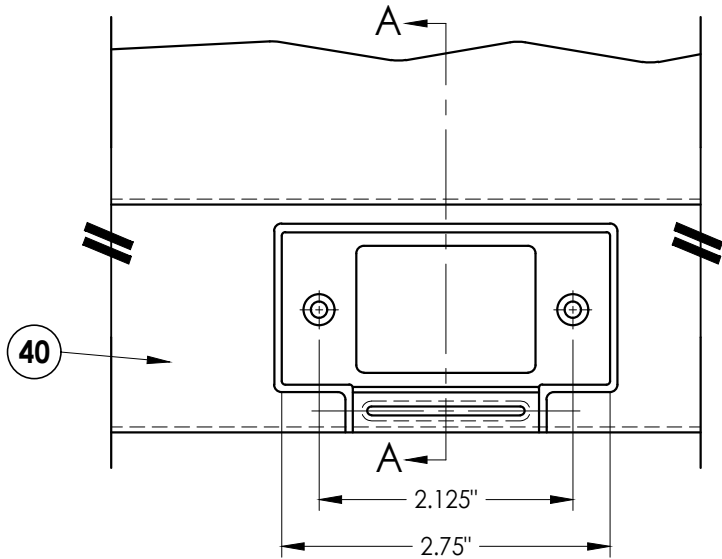
DRAWING NO.:

FL-15366.3

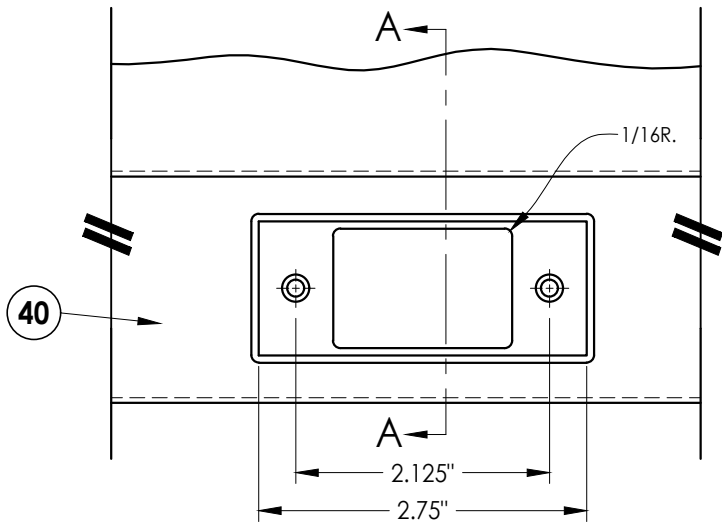
SHEET 1 OF 8



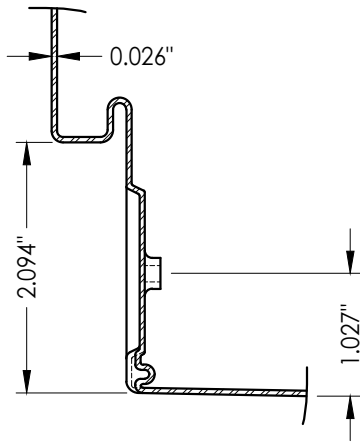
- NOTES:
1. HEADER AND SIDE JAMB MINIMUM 22 GA. STEEL.
 2. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
 3. NON-KERF FRAMES DO NOT MEET AIR AND WATER CRITERIA.



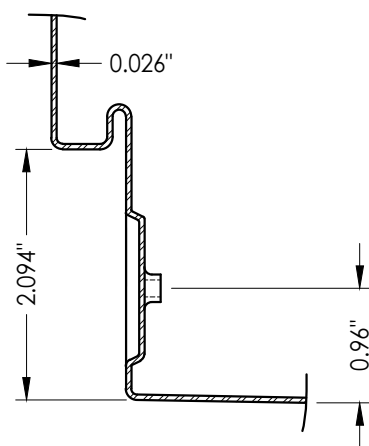
STRIKE AT LATCH



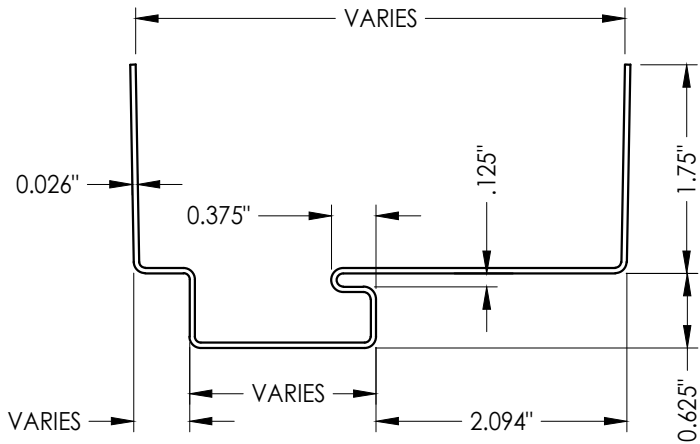
STRIKE AT DEADBOLT



SECTION A-A



SECTION A-A



REDIFRAME CORNER DETAIL

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 REDIFRAME
ONE-PIECE STEEL FRAME

PART OR ASSEMBLY:
STEEL FRAME CROSS SECTION
& DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	CHK.	APP.
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	8/12/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
2	9/29/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	3/24/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 3/14/12

SCALE: N.T.S.

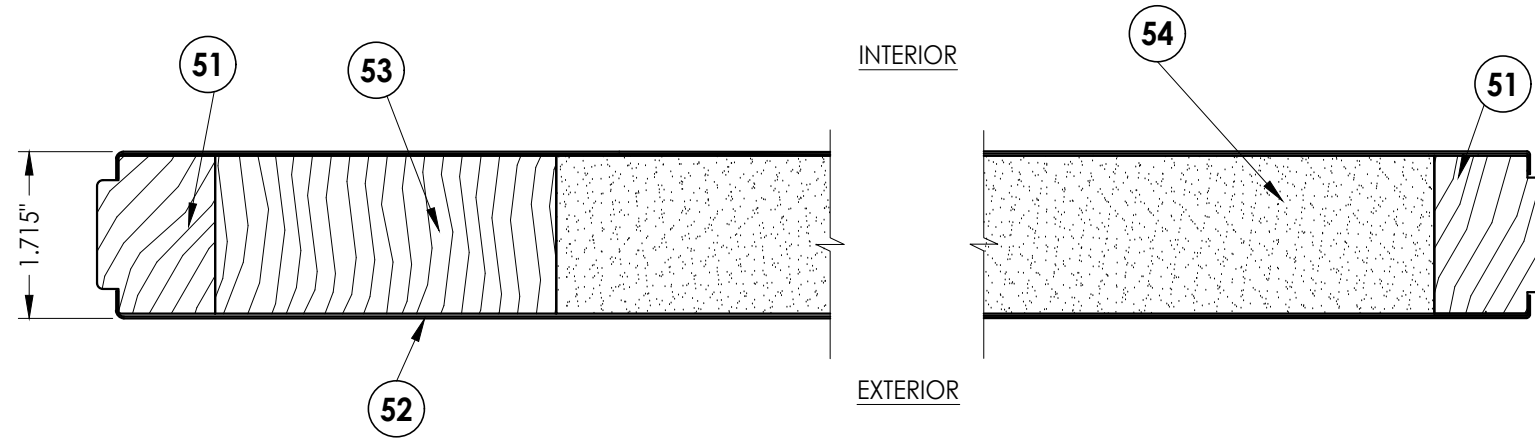
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CHK. BY: LFS

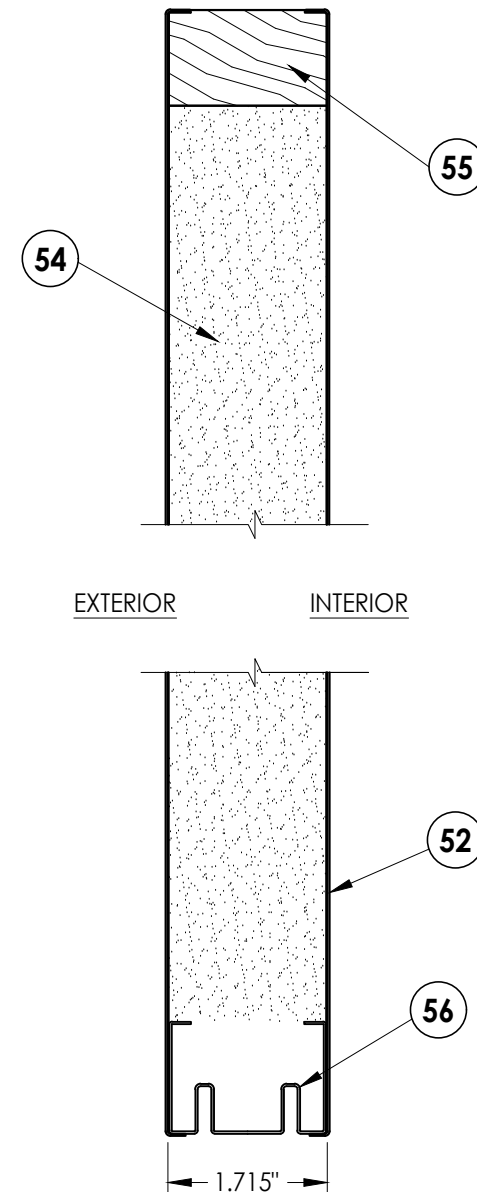
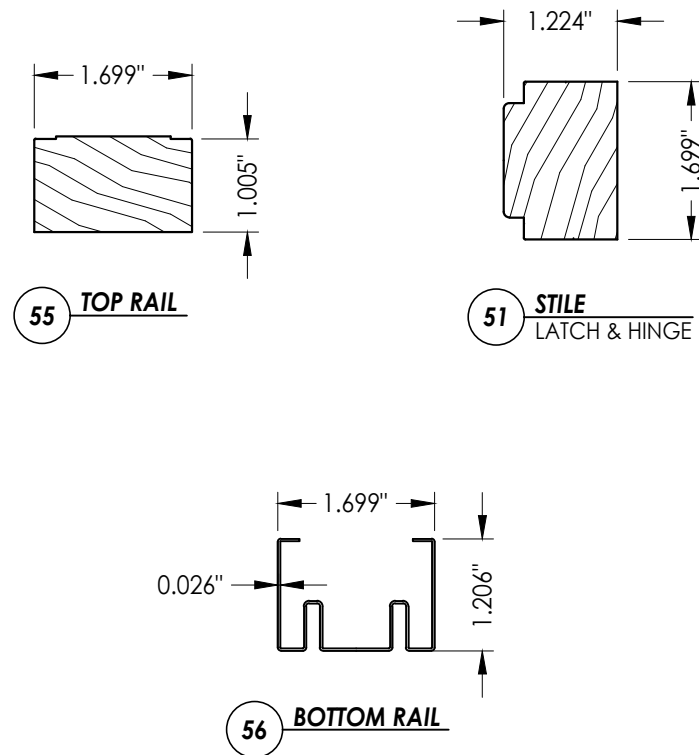
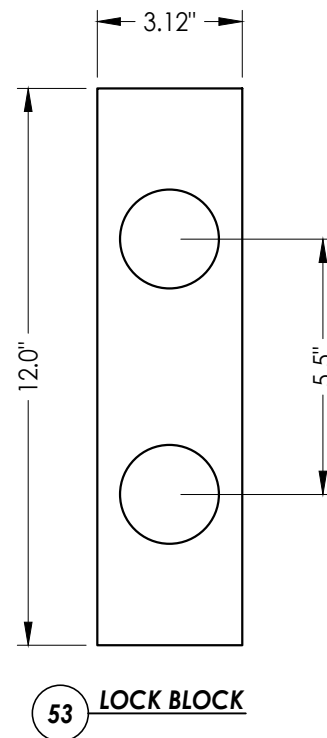
DRAWING NO.:

FL-15366.3

SHEET 2 OF 8



1 **HORIZONTAL CROSS SECTION**
3 Door panel



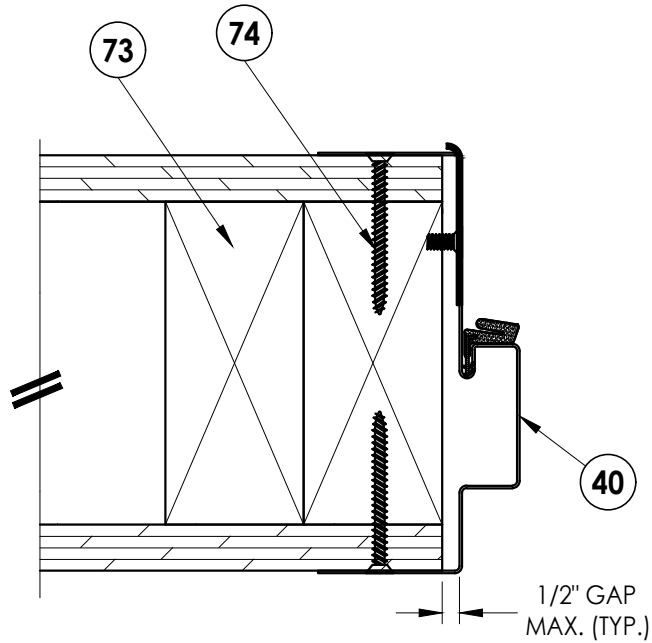
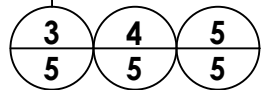
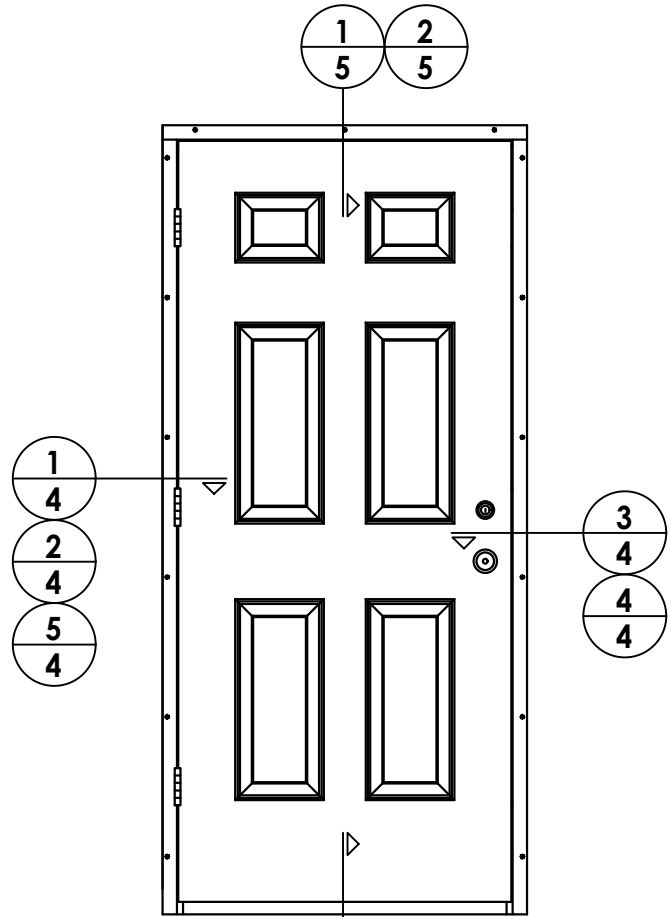
2 **VERTICAL CROSS SECTION**
3 Door panel

[illegible]

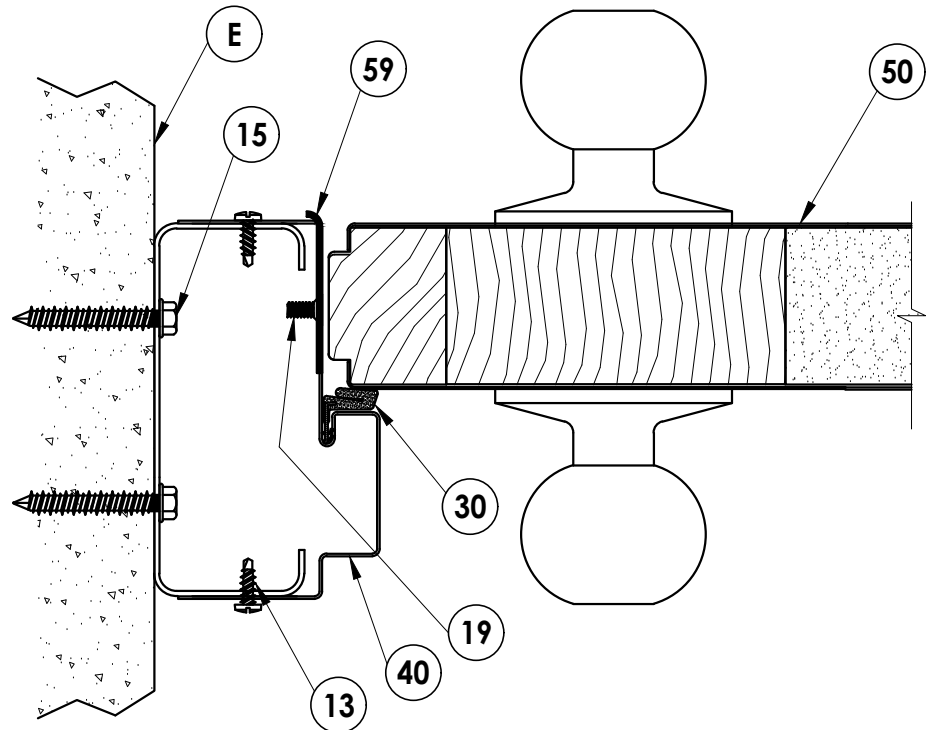
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

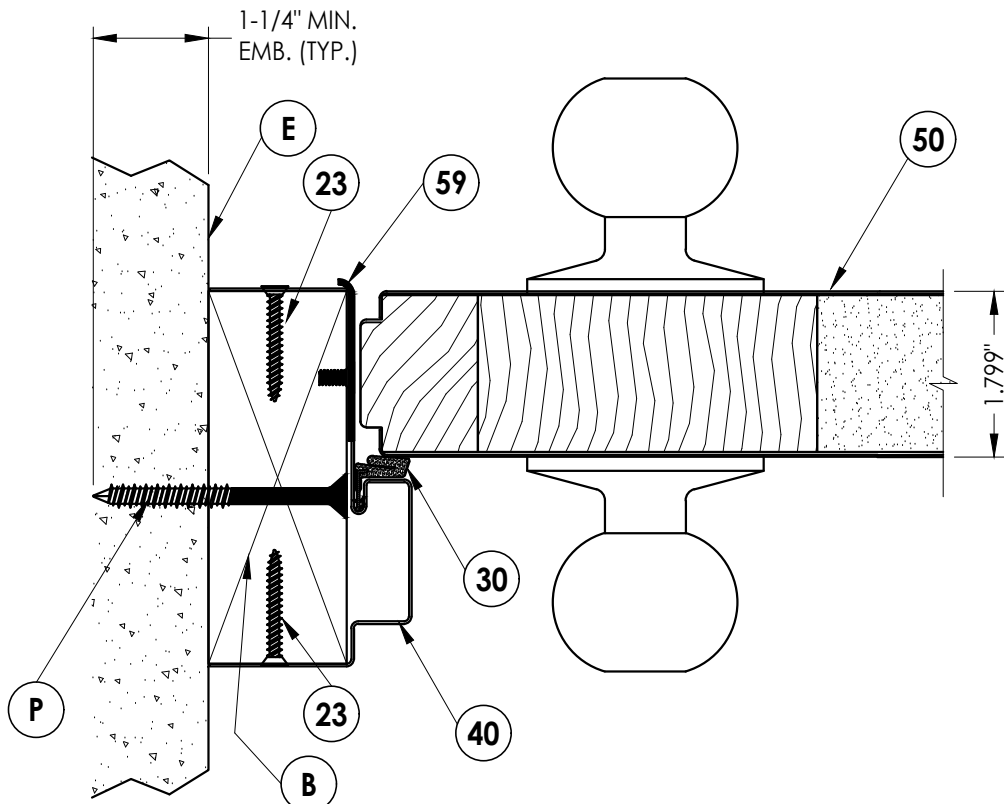
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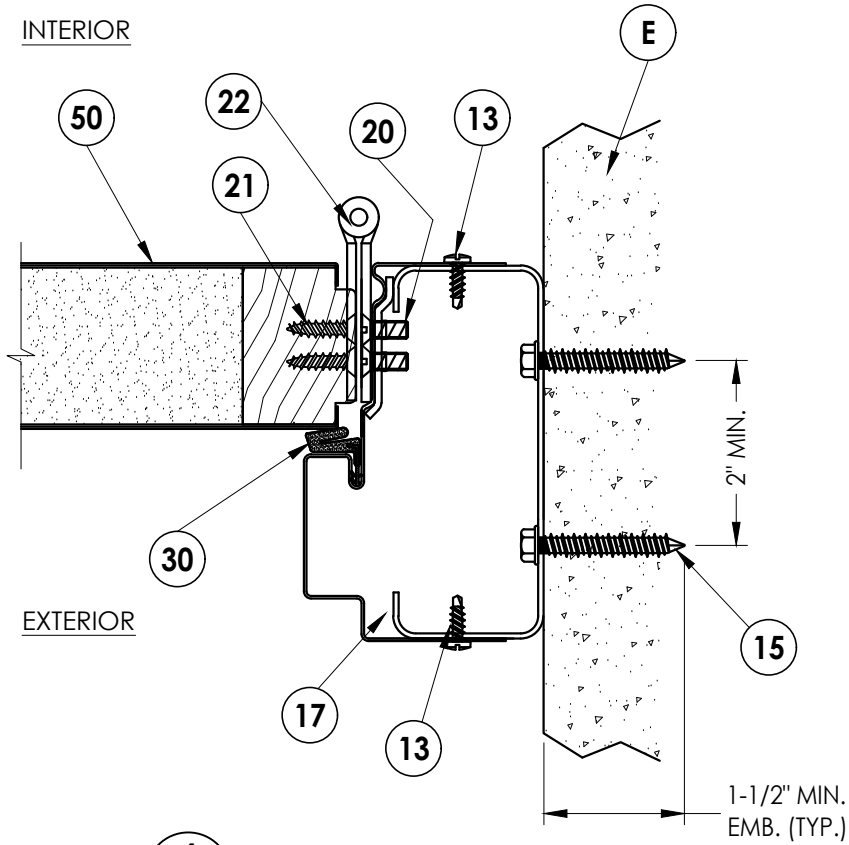
5
4 **HORIZONTAL CROSS SECTION**
Optional 2X Stud Construction



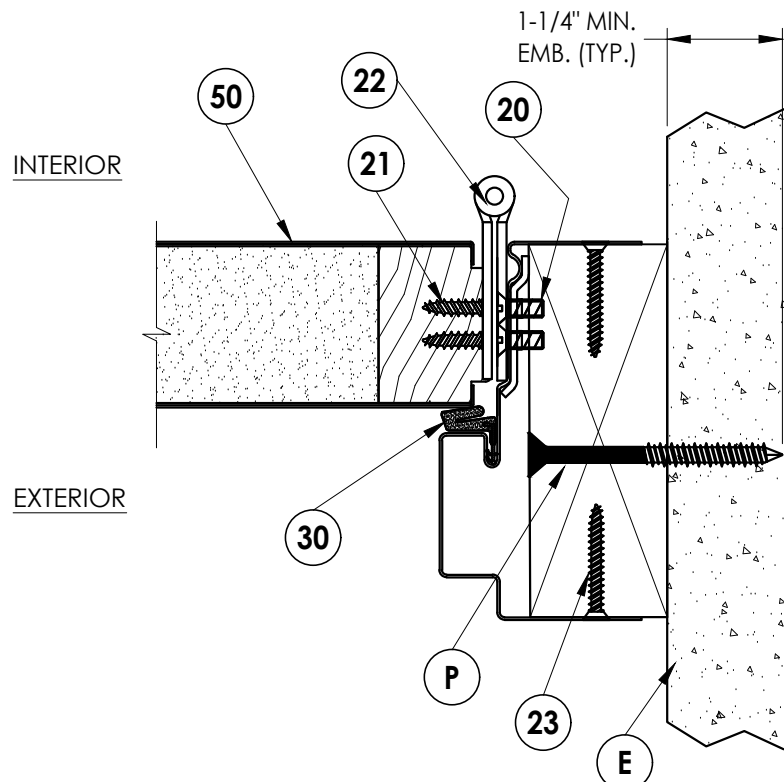
2
4 **HORIZONTAL CROSS SECTION**
Steel Stud Buck



1
4 **HORIZONTAL CROSS SECTION**



4
4 **HORIZONTAL CROSS SECTION**
Steel Stud Buck



3
4 **HORIZONTAL CROSS SECTION**

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 REDIFRAME
ONE-PIECE STEEL FRAME

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	8/12/20	UPDATE TO 7TH ED. (2020) FBC DAC
2	9/29/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	3/24/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 3/14/12

SCALE: N.T.S.

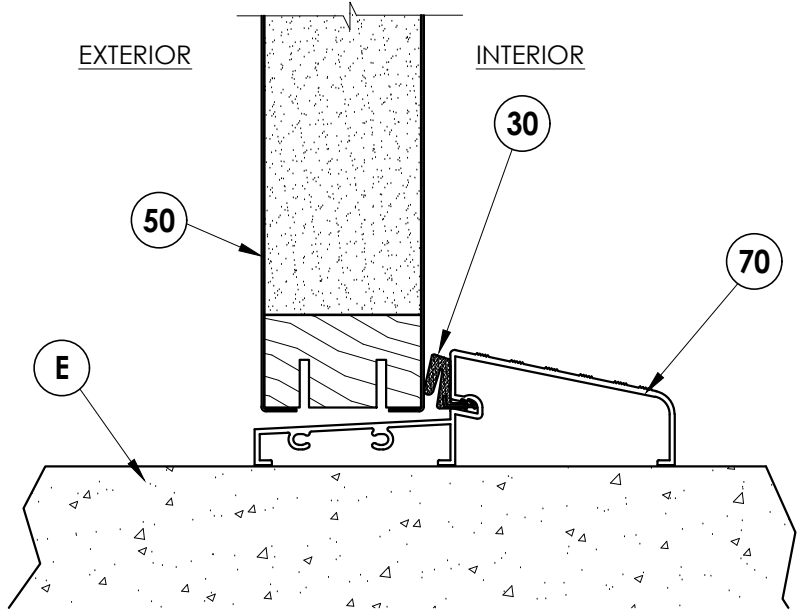
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CHK. BY: LFS

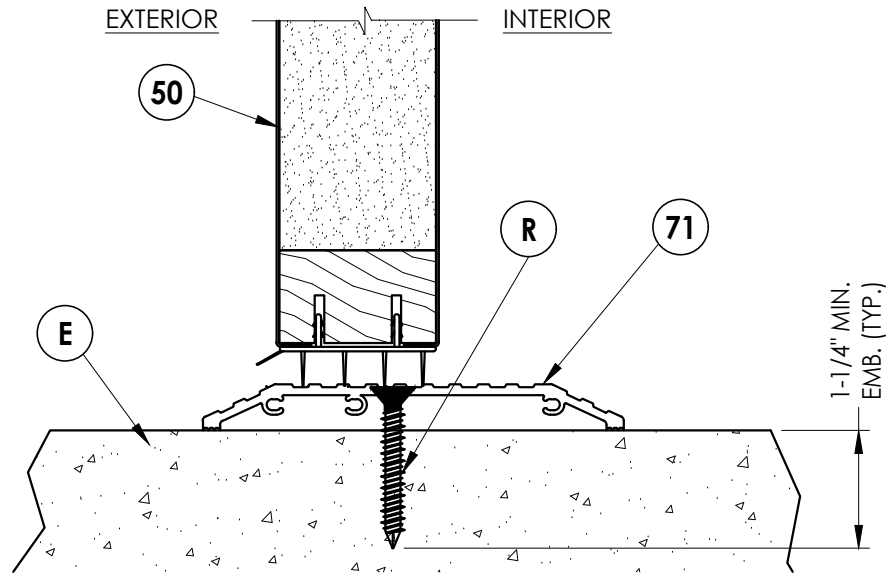
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SHEET 4 OF 8

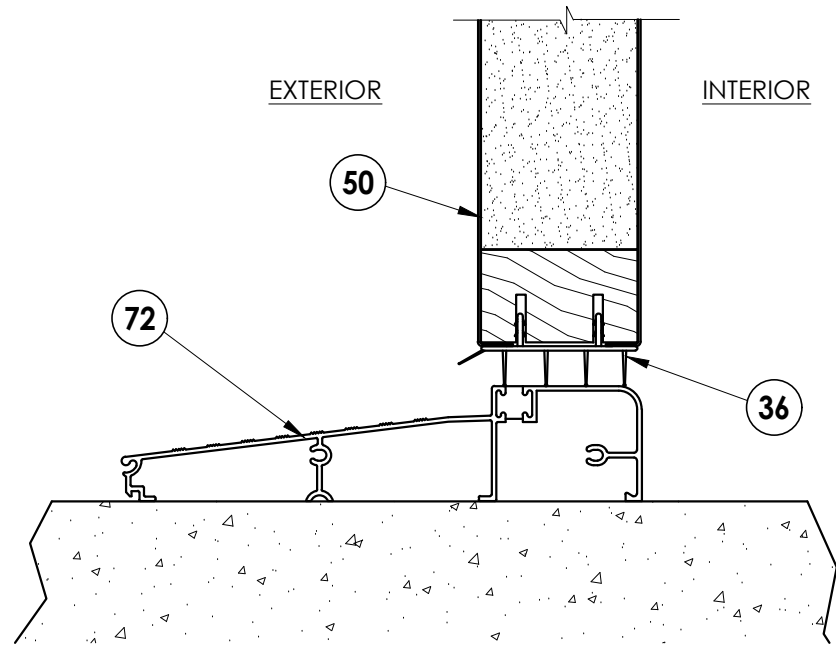
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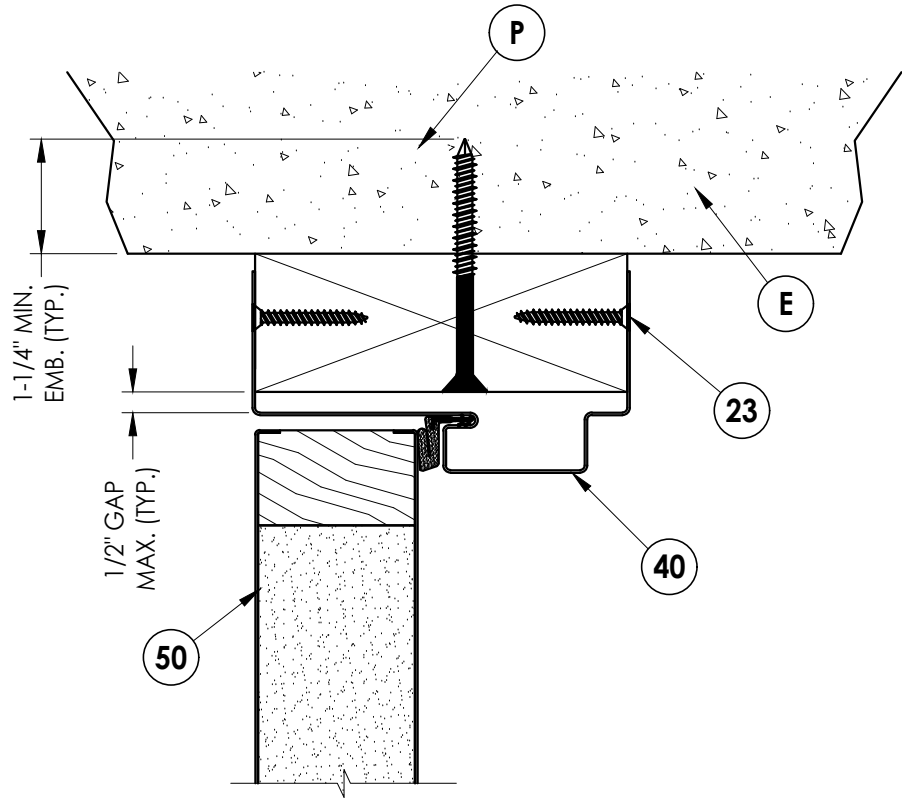
3
5 **VERTICAL CROSS SECTION**
SHOWN W/ OUTSWING BUMP FACE



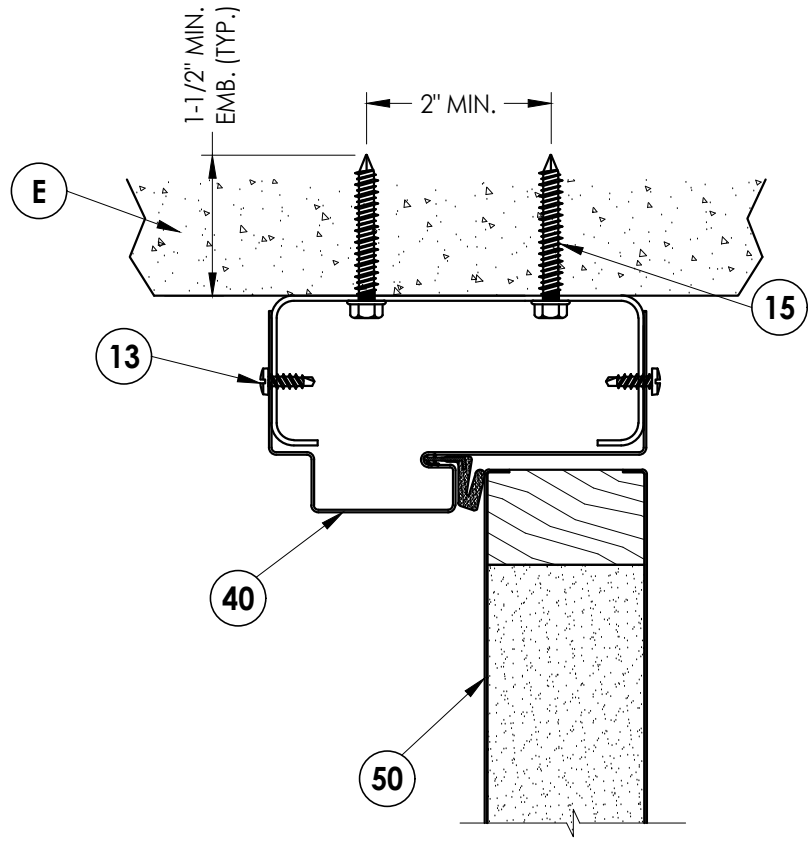
4
5 **VERTICAL CROSS SECTION**
SHOWN W/ ADA SILL



5
5 **VERTICAL CROSS SECTION**
SHOWN W/ INSWING SADDLE



1
5 **VERTICAL CROSS SECTION**
SHOWN W/ WOOD BUCK



2
5 **VERTICAL CROSS SECTION**
SHOWN W/ STEEL BUCK

DATE: 3/14/12
SCALE: N.T.S.
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-15366.3
SHEET 5 OF 8

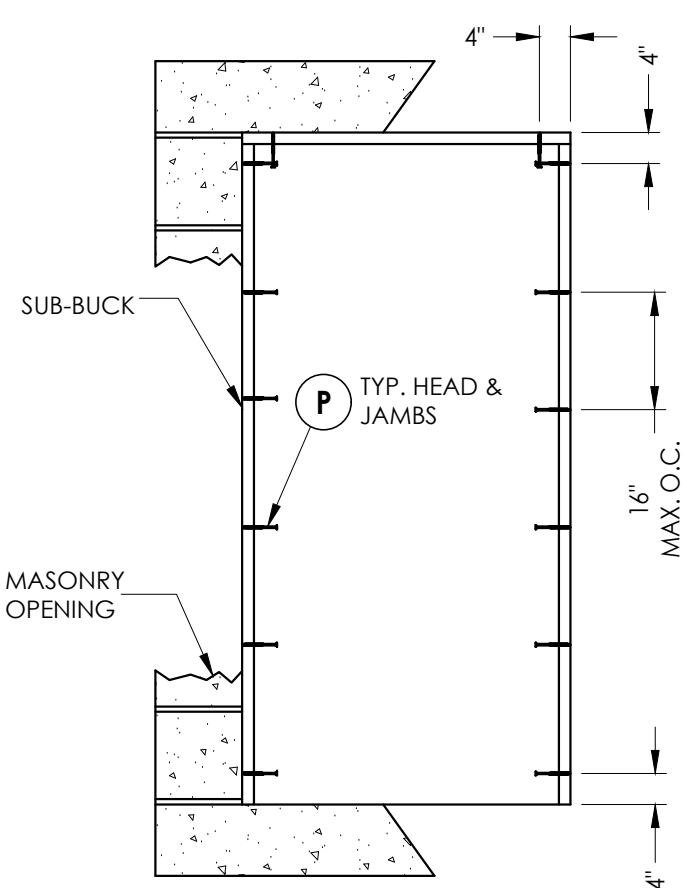
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3	8/12/20	UPDATE TO 7TH ED. (2020) FBC DAC
2	9/29/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	3/24/15	UPDATE TO 5TH ED. (2014) FBC JK
		BY

PRODUCT:
DUNBARTON REDIFRAME
ONE-PIECE STEEL FRAME
PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

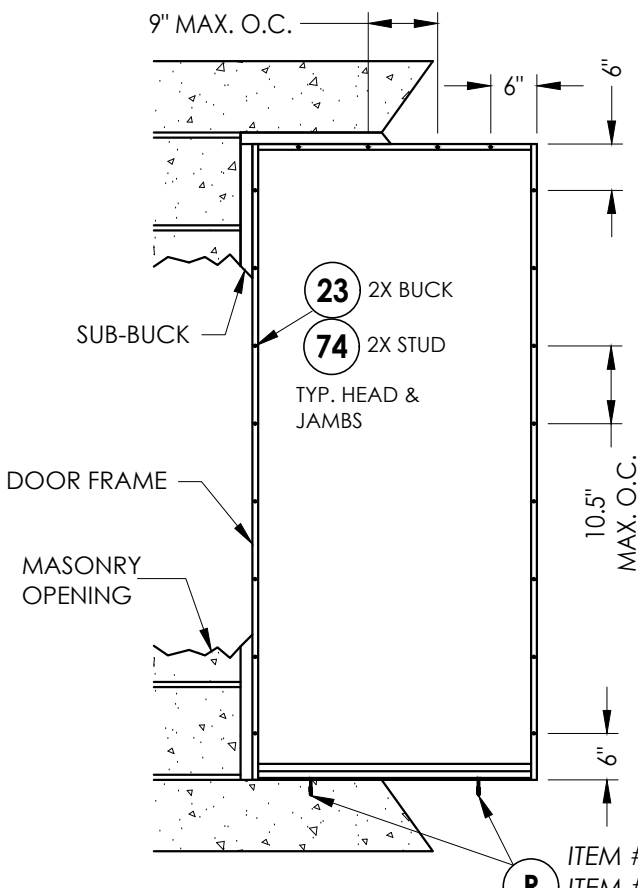
Documents Prepared By:
Lyndon F. Schmidt
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RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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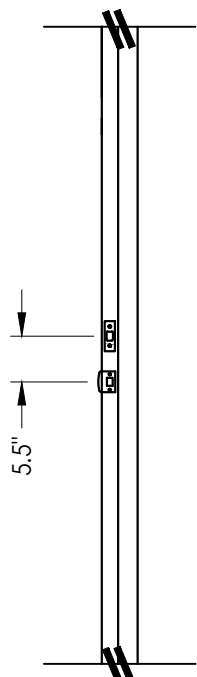
BUCK ANCHORING
2X wood buck



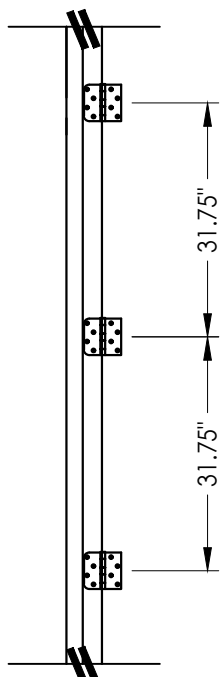
FRAME ANCHORING
Masonry 2X buck construction

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

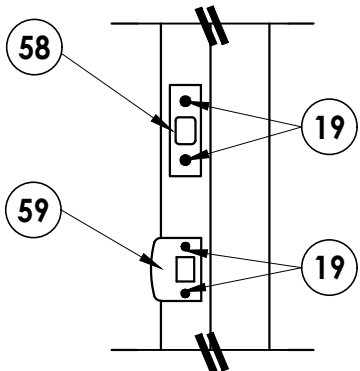
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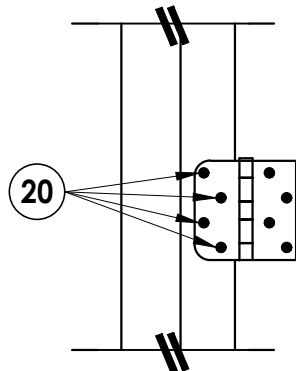
STRIKE JAMB



HINGE JAMB



STRIKE PLATE DETAIL



HINGE DETAIL 1

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

PRODUCT:
DUNBARTON REDIFRAME
ONE-PIECE STEEL FRAME

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
2X BUCK

NO.	DATE	REVISIONS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	8/12/20	UPDATE TO 7TH ED. (2020) FBC DAC
2	9/29/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	3/24/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 3/14/12
SCALE: N.T.S.
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-15366.3
SHEET 6 OF 8

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

1. A minimum of 3 threads shall protrude through the steel stud buck substrate.



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



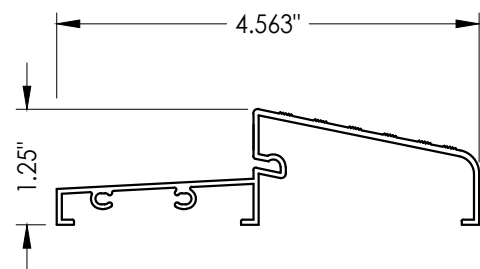
1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimensions 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®	3/16"	1-1/2"	3"	2" (REDUCED)

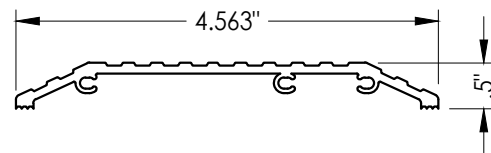
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RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

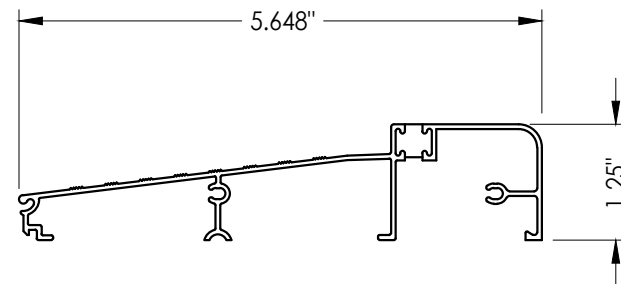
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 OR ASTM A653 STEEL	CONCRETE
P	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
R	1/4" X 1-3/4" ITW PFH CONCRETE SCREW	STEEL
13	#10 X 3/4" HILTI KWIK-FLEX SELF-DRILLING SCREW	STEEL
15	3/16" X 1-3/4" HWH ITW 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	4.0" X 4.0" 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
40	REDIFRAME JAMB 22 GA. MIN. (.026" GALV. STEEL) BY DUNBARTON	STEEL
50	STEEL DOOR PANEL - WOOD EDGE by JELD-WEN	STEEL
51	STILE - LATCH & HINGE PONDEROSA PINE	WOOD
52	PANEL FACE SHEET - 24 GA. GALVANIZED STEEL (MIN. 0.019" THK., Fy = 28,000 PSI MIN.)	STEEL
53	LOCK REINFORCEMENT BLOCK	WOOD
54	EPS CORE 1.25 LB. DENSITY	POLYSTYRENE
55	TOP RAIL - PONDEROSA PINE	WOOD
56	BOTTOM RAIL (0.026" MIN. GALVANIZED STEEL)	STEEL
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 >= 0.43	WOOD
74	#8 x 1-3/4" PFH SMS (1-1/8" MIN. EMBEDMENT)	STEEL



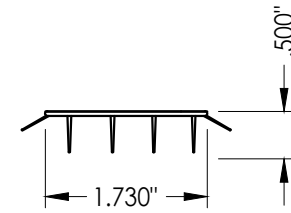
70 OUTSWING THRESHOLD



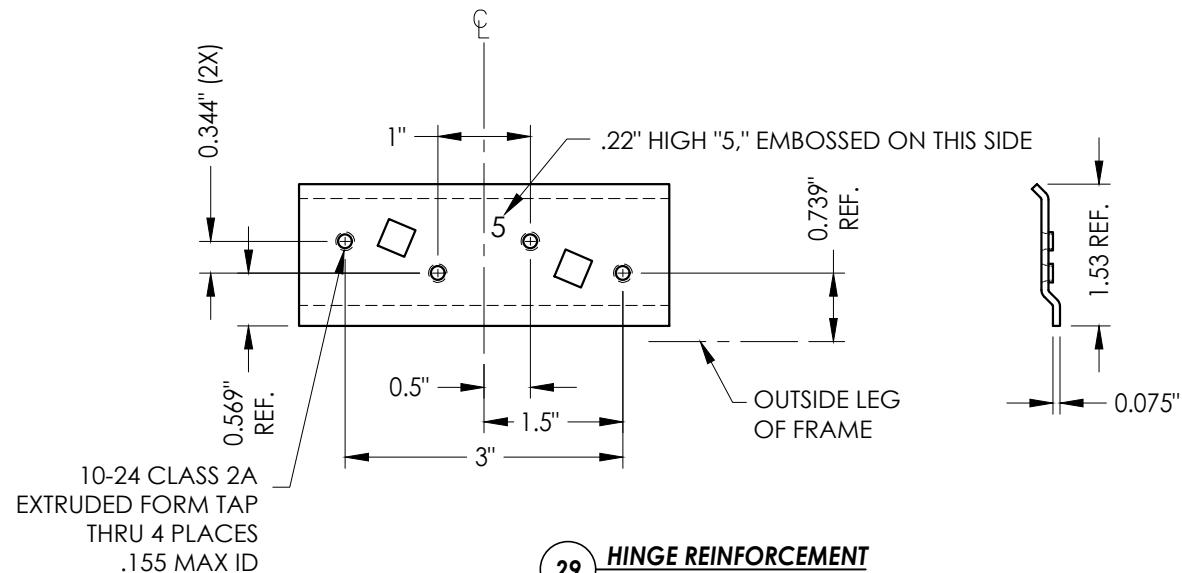
71 ADA SILL



72 INSWING ALUMINUM THRESHOLD



36 FIN TYPE SWEEP



29 HINGE REINFORCEMENT

[illegible]