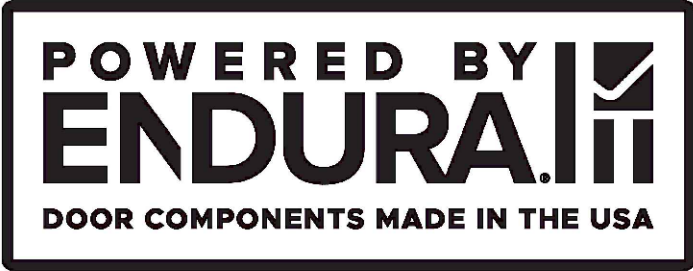
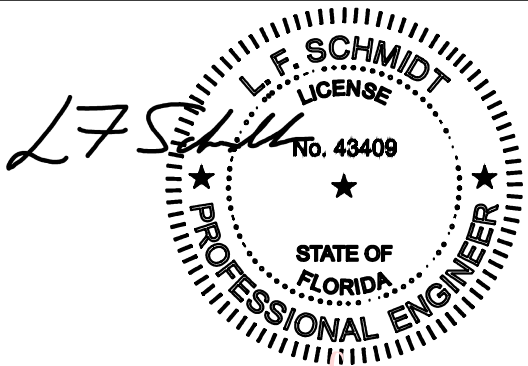


Z:\2023 FBC Drawings\Endura Products\FL-25610 R10\FL-25610.8.dwg



"FusionFrame"
Continuous Head & Sill Frame System
INSWING / OUTSWING
"IMPACT"

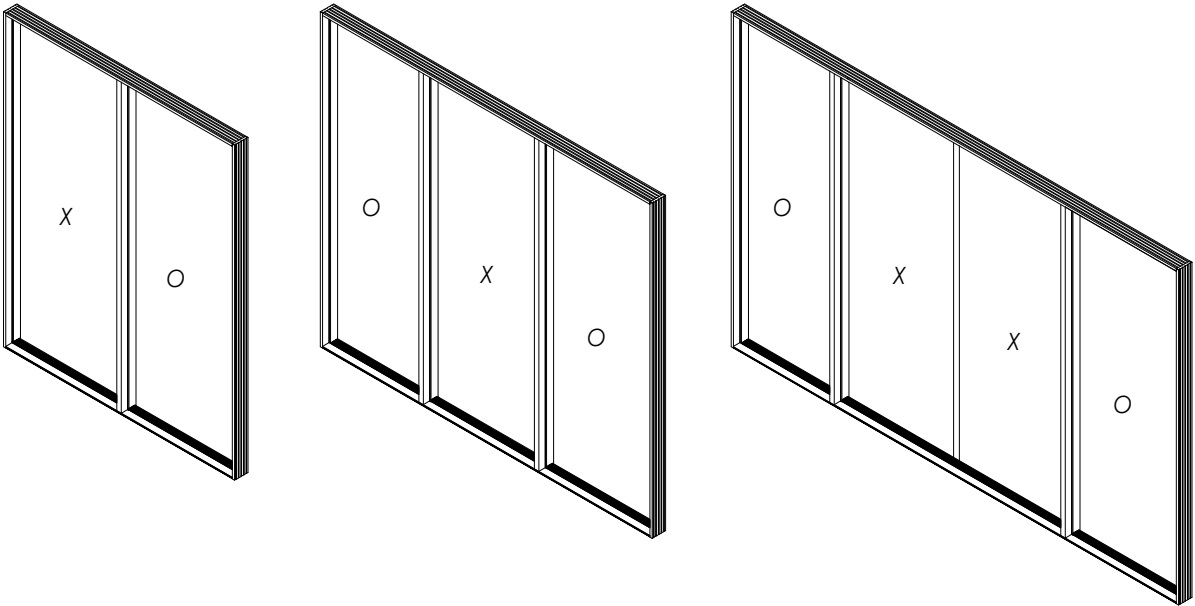


Digitally signed by Lyndon F Schmidt
Date: 2023.07.12 10:29:03 -04'00'

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



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 E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. This "IMPACT" door jamb, mullion, weatherstripping and thresholds, as components, are to be used in combination as a substitute for similar components in an impact approved continuous head & sill door system possessing a current Florida Statewide Product Approval.
5. The design pressure of the assembly shall be the lesser of the design pressure for the component assembly shown in this approval or the design pressure of the component assembly used in conjunction with this approval.
6. The maximum frame size of the door assembly shall be lesser of the maximum frame size stated in this approval or the maximum frame size of the door assembly approval used in conjunction with this approval.
7. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction
8. 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	SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes	7	Vertical Cross Sections (Thresholds)
2	Elevations	8	2X Buck Anchoring (O/X, X/O, OXO)
3	Horizontal & Vertical Cross Sections (2X Buck)	9	2X Buck Anchoring (OXXO)
4	Horizontal & Vertical Cross Sections (1X Buck)	10	Frame Anchoring (O/X, X/O, OXO) & Hardware Details
5	Horizontal & Vertical Cross Sections (Direct to Masonry)	11	Frame Anchoring (OXXO) & Hardware Details
6	Horizontal Cross Sections	12	Bill of Materials & Components

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OX/XO	74.5" x 98.0"	+50.0	-50.0	+50.0	-50.0
OXO	112.75" x 98.0"	+50.0	-50.0	+50.0	-50.0
OXXO	149.5" x 98.0"	+50.0	-50.0	+50.0	-50.0

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

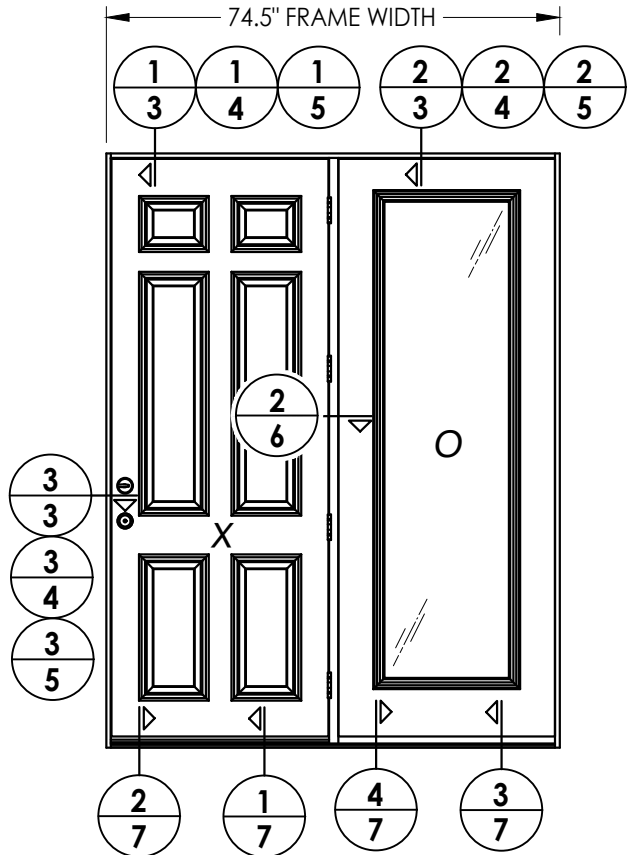
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA COMPONENTS

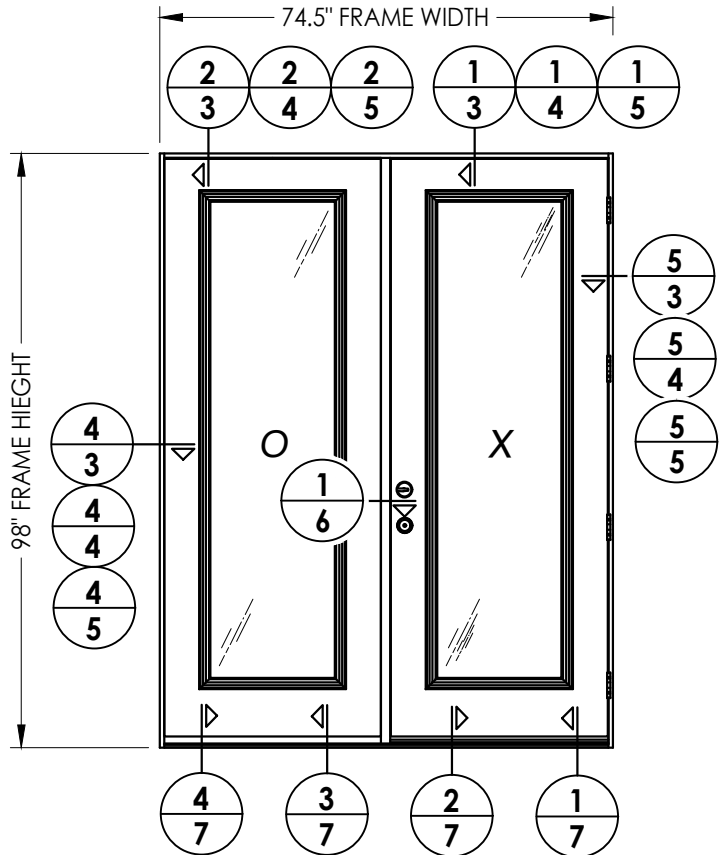
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS			
		BY	LFS	FBC	LFS
3	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	8/03/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
1	6/18/19	REVISE D.P. FOR NEW TESTING			

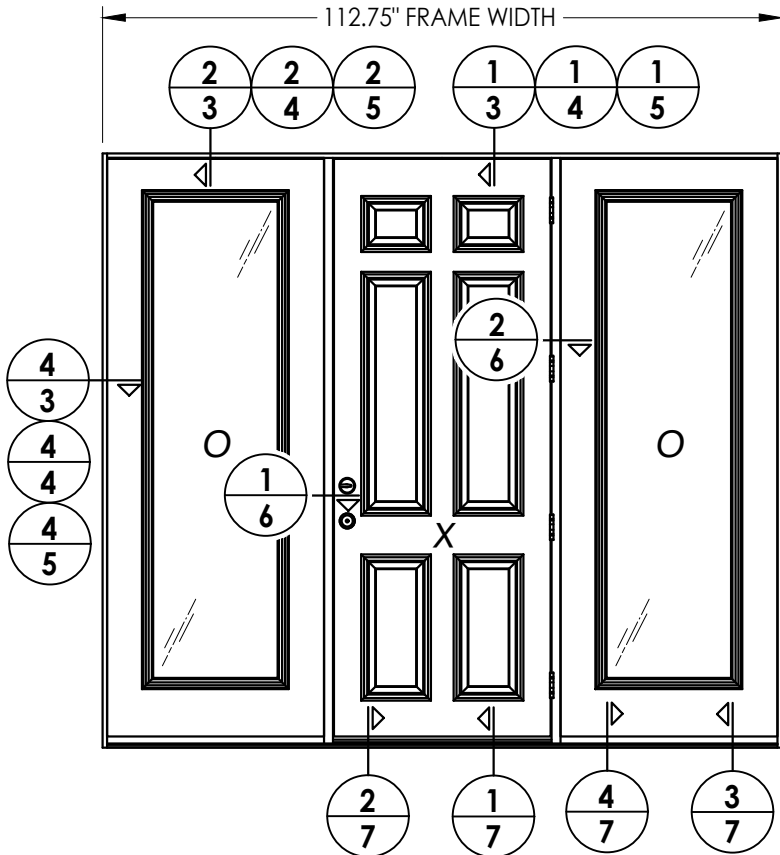
DATE: 2/04/19
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-25610.8
SHEET 1 OF 12



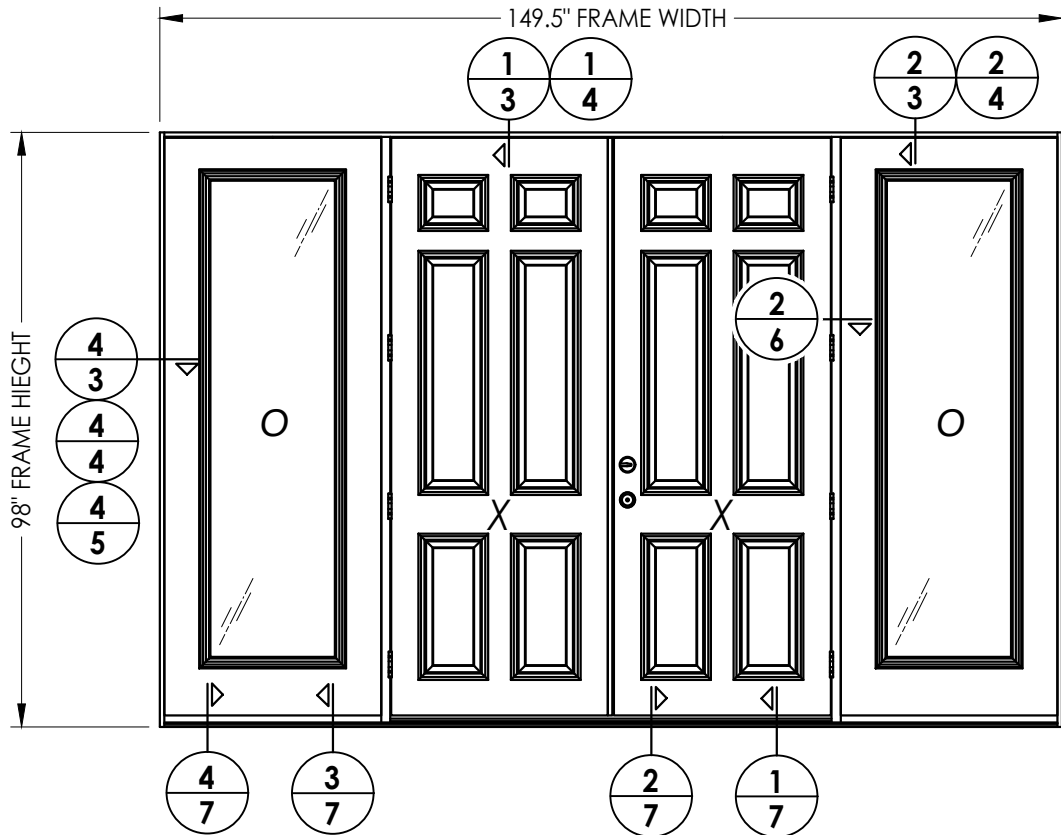
SINGLE DOOR (CENTER HINGED) w/ SIDELITE
(Shown with opaque door)



SINGLE DOOR w/ SIDELITE
(Shown with glazed door)



SINGLE DOOR w/ SIDELITES
(Shown with opaque door)



DOUBLE DOOR w/ SIDELITES
(Shown with opaque door)

NOTE:
SEE SEPARATE SIDE-HINGED DOOR & SIDELITE
FLORIDA PRODUCT APPROVAL FOR DOOR & SIDELITE
CONSTRUCTION DETAILS NOT SHOWN, INCLUDING
LOCK HARDWARE, ASTRAGAL & HINGE CONNECTIONS.

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:

ENDURA
COMPONENTS

PART OR ASSEMBLY:

ELEVATIONS

DATE: 2/04/19

SCALE: N.T.S.

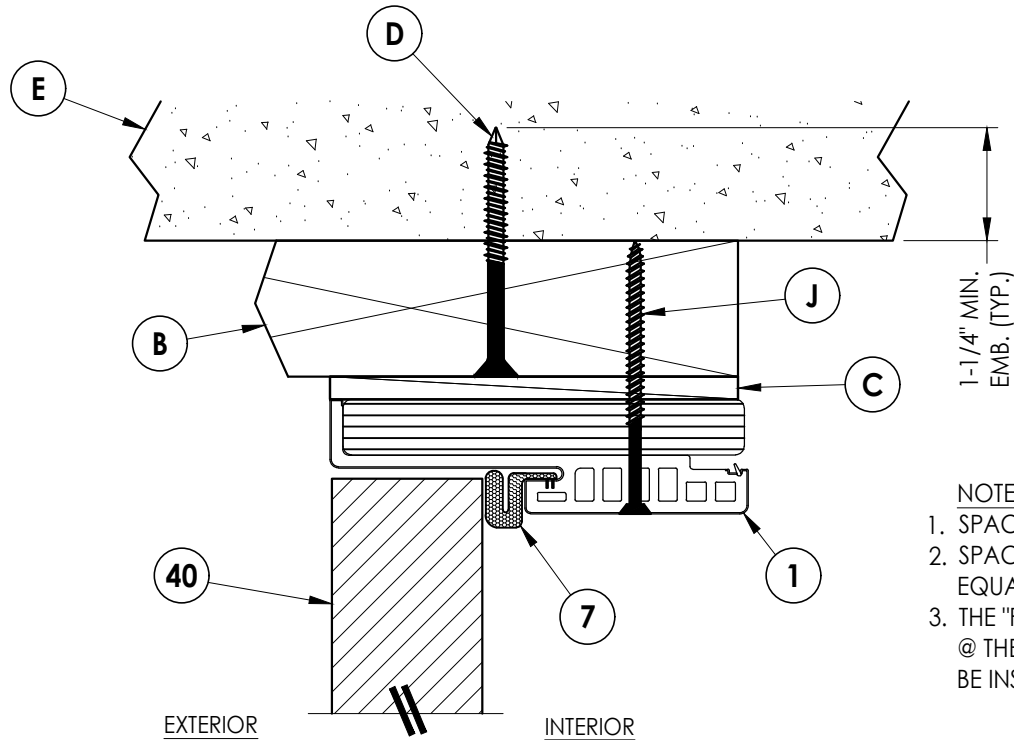
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CHK. BY: LFS

DRAWING NO.:

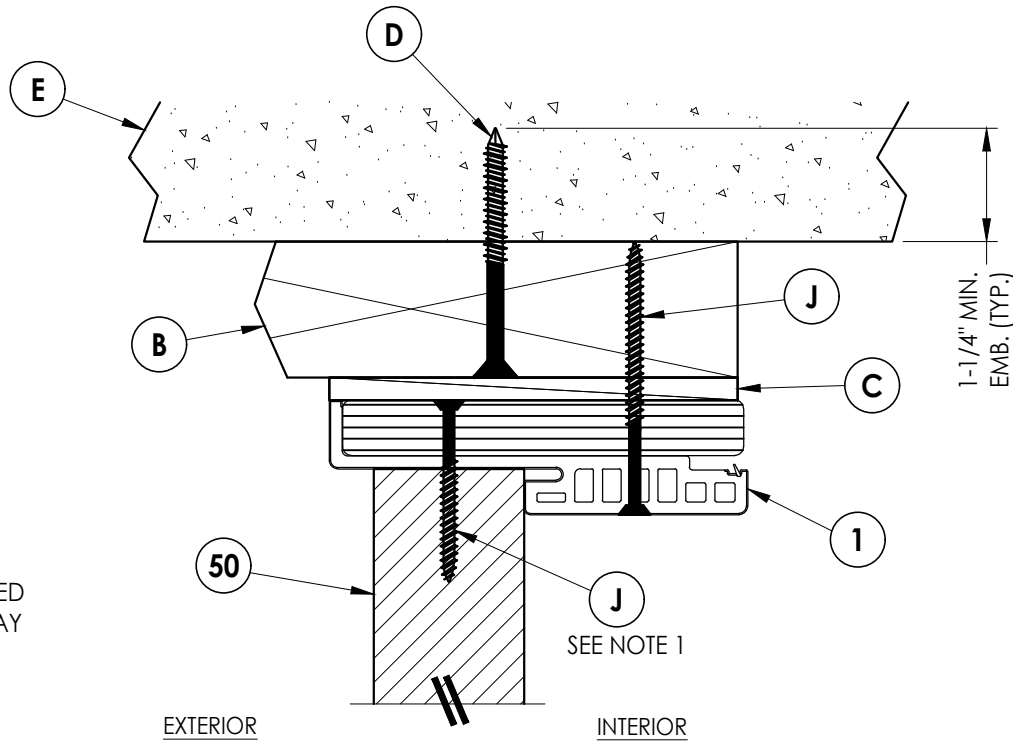
FL-25610.8

SHEET 2 OF 12



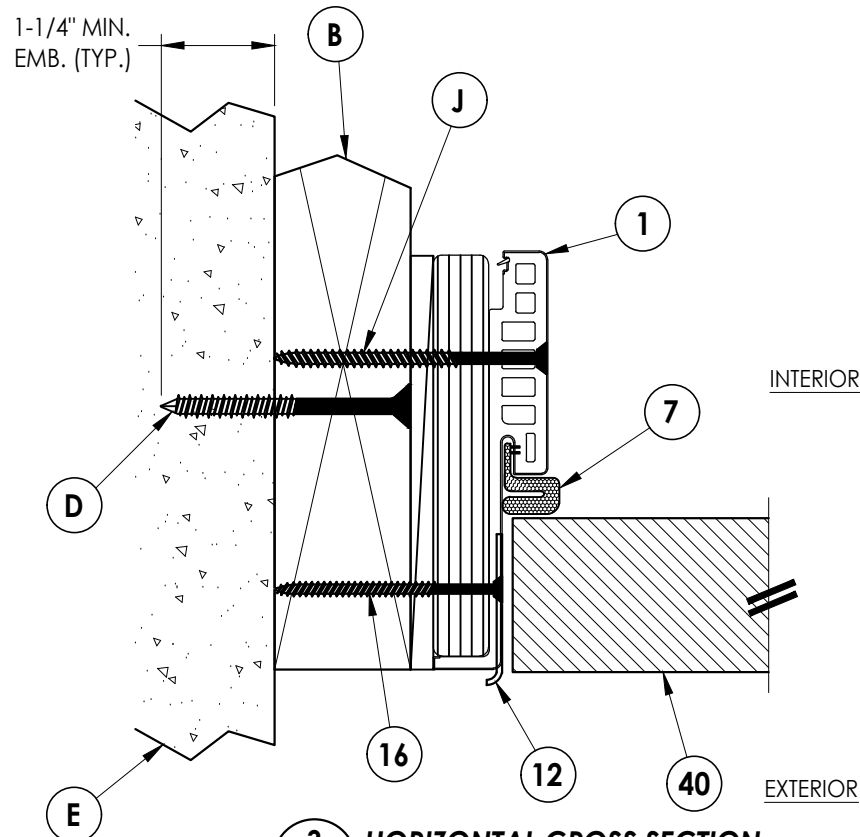
1
3 **VERTICAL CROSS SECTION**
2X Buck Construction
Outswing Shown (Inswing Similar)

- NOTES:
1. SPACING FOR ITEM J: 6" FROM ENDS (2 TOTAL).
 2. SPACING FOR ITEM J: 6" FROM ENDS & 4 MORE EQUALLY SPACED ALONG SIDELITE (6 TOTAL).
 3. THE "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB. THE 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.

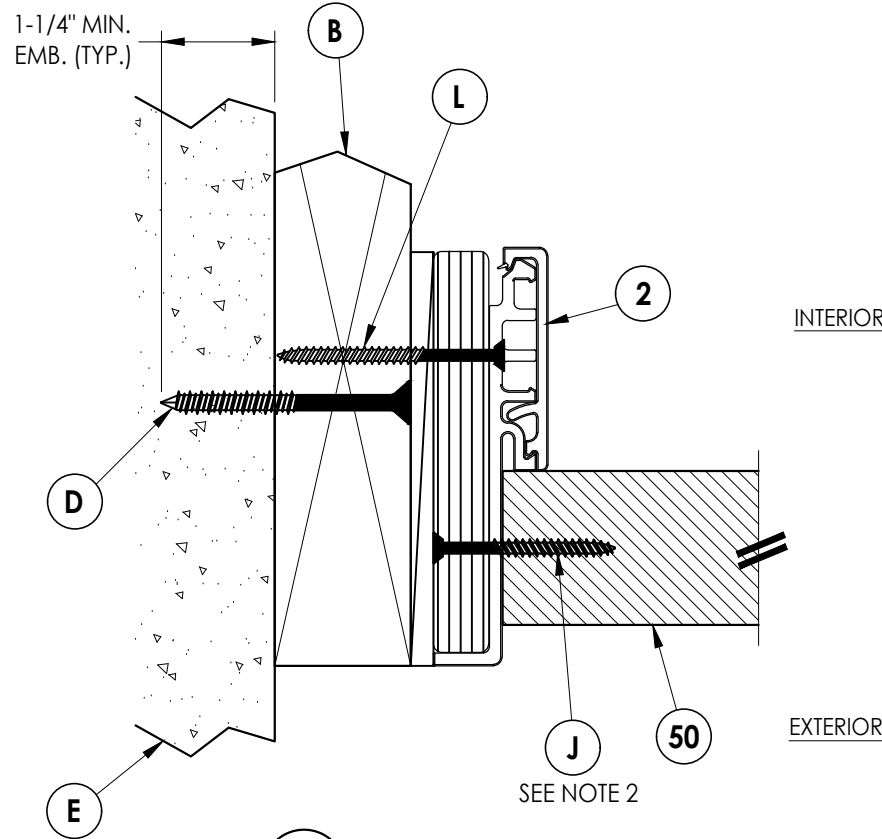


2
3 **VERTICAL CROSS SECTION**
2X Buck Construction
Outswing Shown (Inswing Similar)

SEE NOTE 1

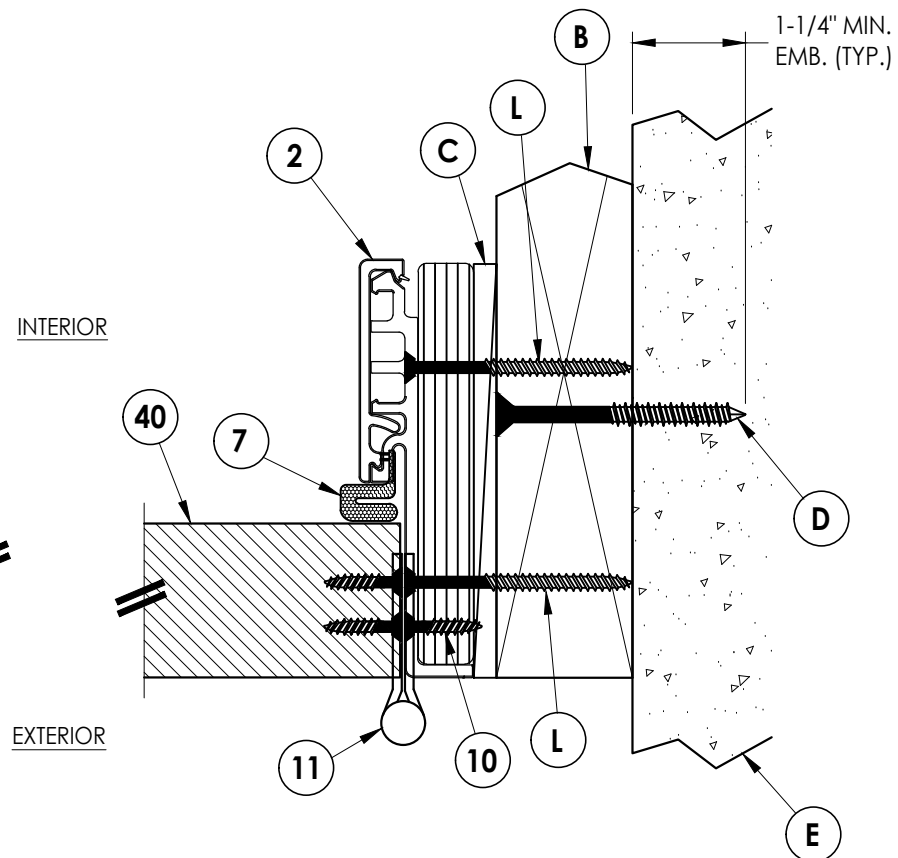


3
3 **HORIZONTAL CROSS SECTION**
2X Buck Construction
Outswing Shown (Inswing Similar)



4
3 **HORIZONTAL CROSS SECTION**
2X Buck Construction
Outswing Shown (Inswing Similar)

SEE NOTE 2



5
3 **HORIZONTAL CROSS SECTION**
2X Buck Construction
Outswing Shown (Inswing Similar)

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:
ENDURA
COMPONENTS

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

REVISIONS			
NO.	DATE	BY	
3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	8/03/20	UPDATE TO 7TH ED. (2020)	FBC LFS
1	6/18/19	REVISE D.P. FOR NEW TESTING	LFS

DATE: 2/04/19

SCALE: N.T.S.

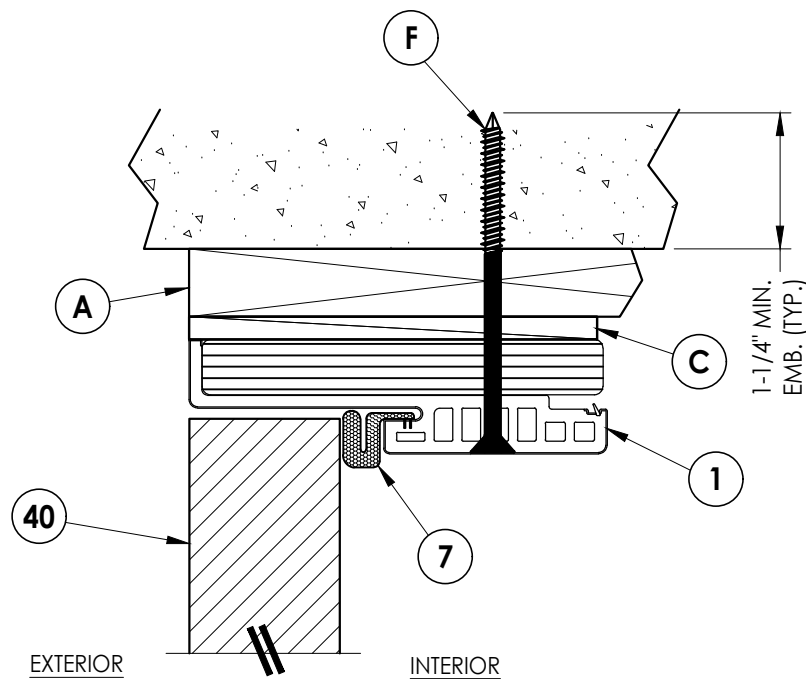
DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-25610.8

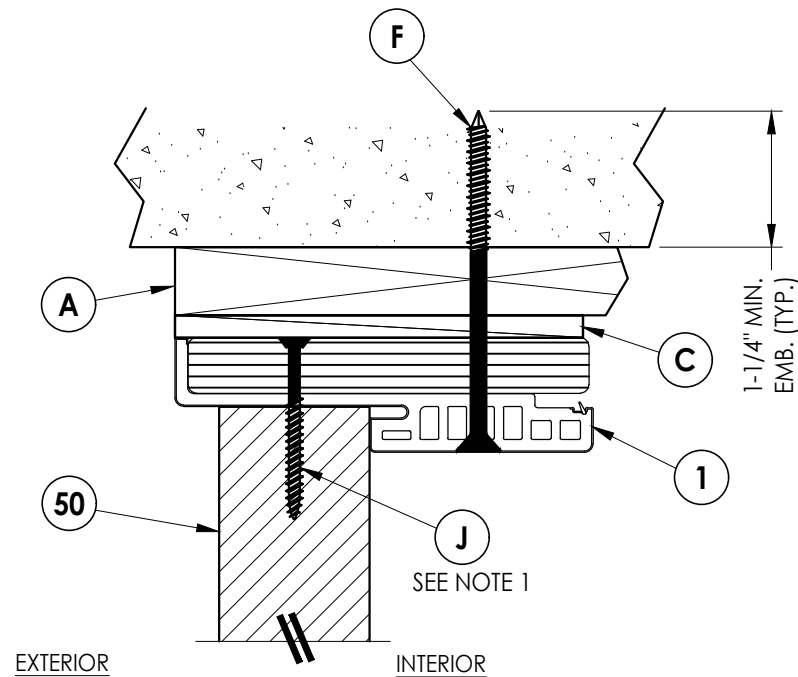
SHEET 3 OF 12

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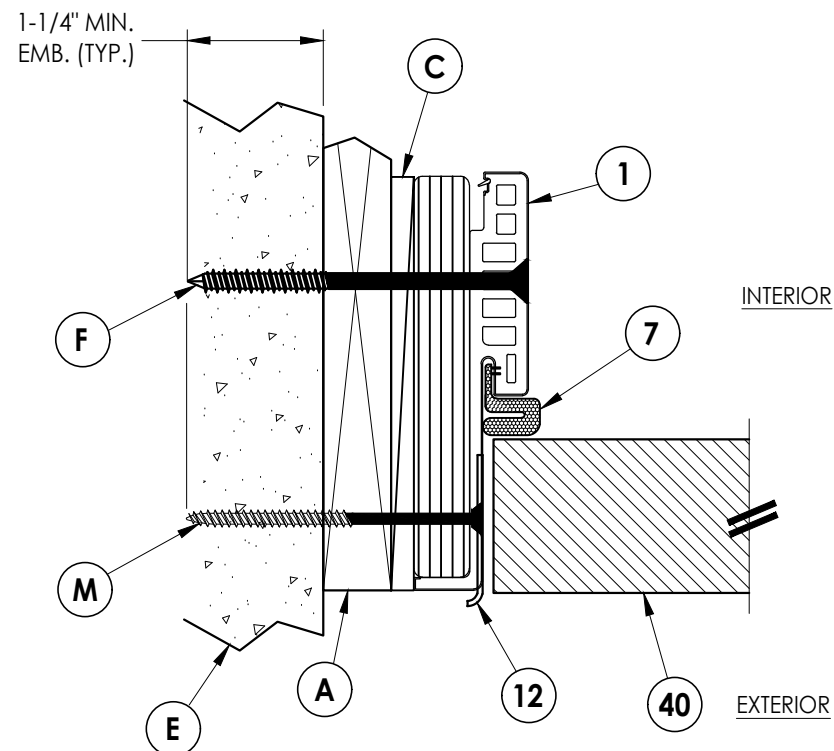


1
4 **VERTICAL CROSS SECTION**
1X Buck Construction
Outswing Shown (Inswing Similar)

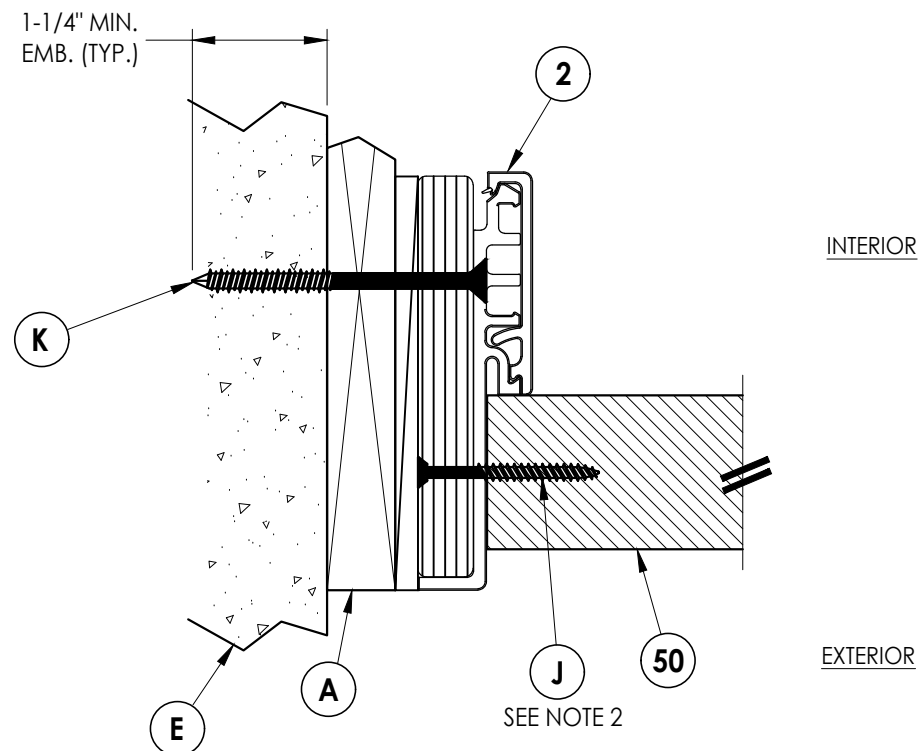
- NOTES:
1. SPACING FOR ITEM J: 6" FROM ENDS (2 TOTAL).
 2. SPACING FOR ITEM J: 6" FROM ENDS & 4 MORE EQUALLY SPACED ALONG SIDELITE (6 TOTAL).
 3. THE "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB. THE 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.



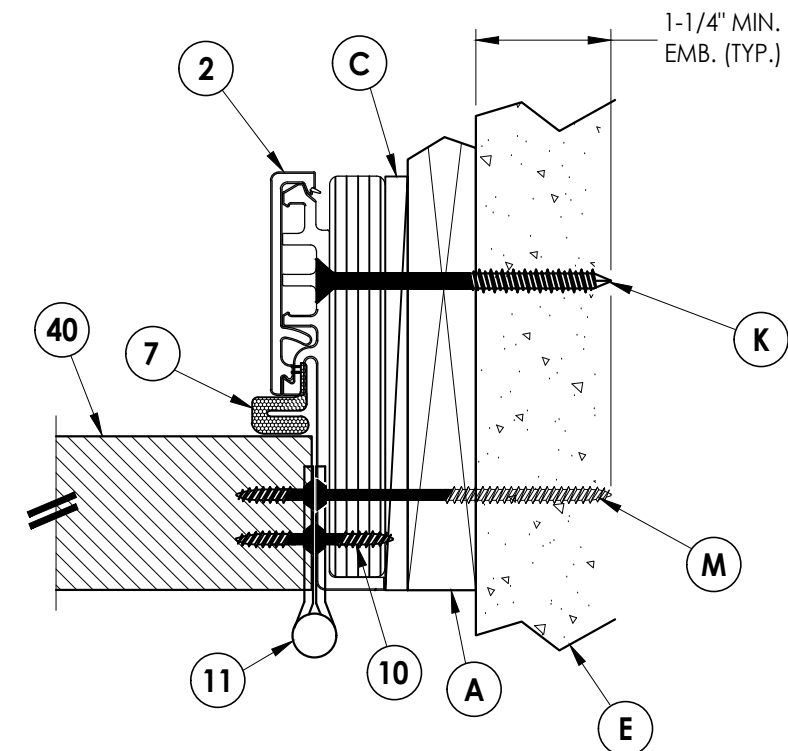
2
4 **VERTICAL CROSS SECTION**
1X Buck Construction
Outswing Shown (Inswing Similar)



3
4 **HORIZONTAL CROSS SECTION**
1X Buck Construction
Outswing Shown (Inswing Similar)



4
4 **HORIZONTAL CROSS SECTION**
1X Buck Construction
Outswing Shown (Inswing Similar)



5
4 **HORIZONTAL CROSS SECTION**
1X Buck Construction
Outswing Shown (Inswing Similar)

Documents Prepared By:
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P.E. No. 43409

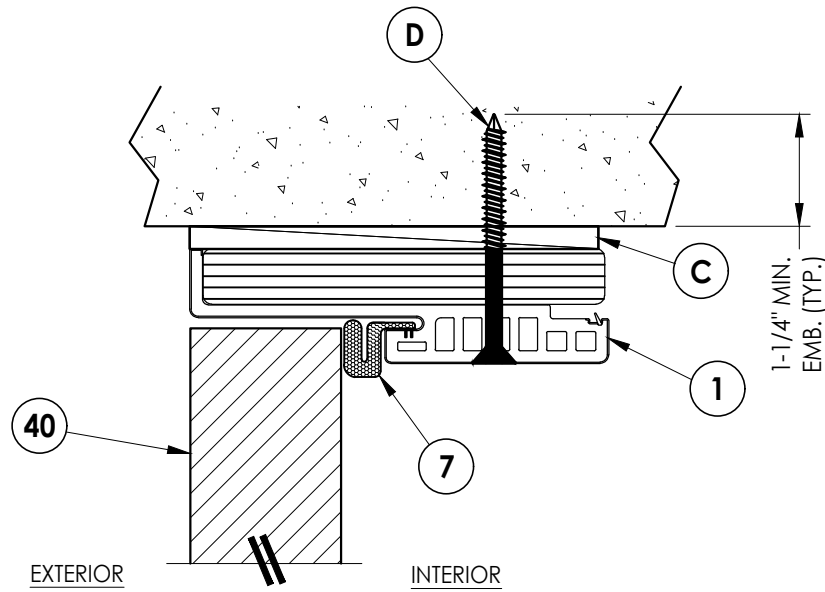
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA COMPONENTS
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS
3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/03/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	6/18/19	REVISE D.P. FOR NEW TESTING LFS

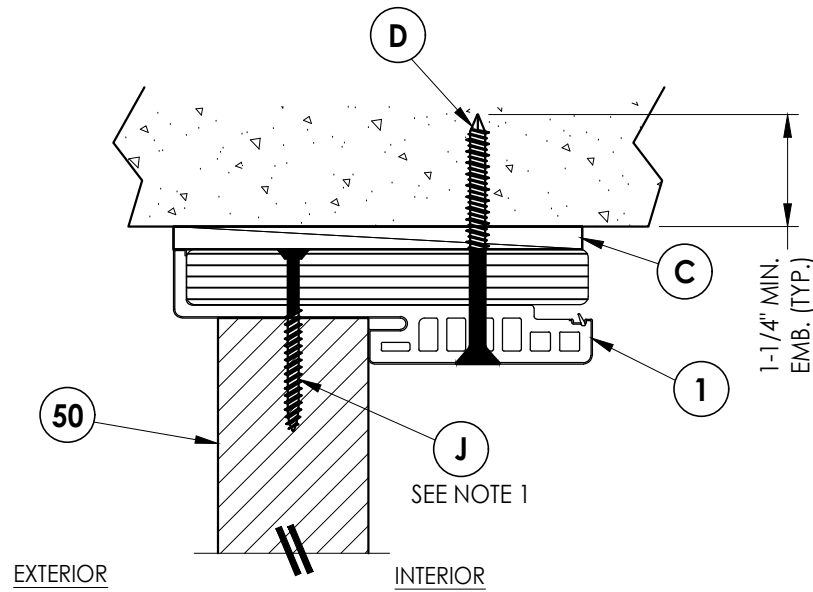
DATE: 2/04/19
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-25610.8
SHEET 4 OF 12

Z:\2023 FBC Drawings\Endura Products\FL-25610 R10\FL-25610.8.dwg

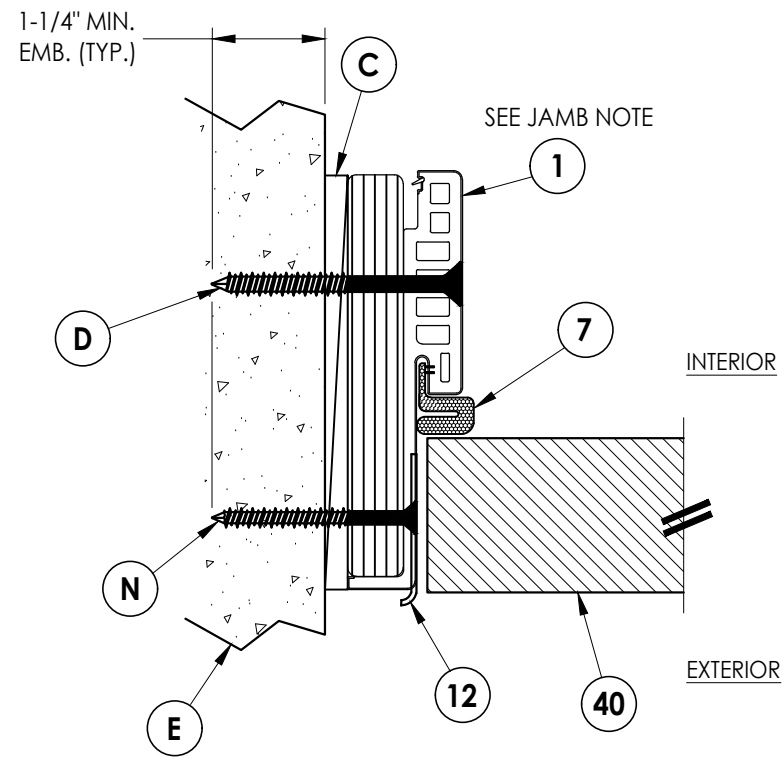


1
5 **VERTICAL CROSS SECTION**
Direct to Masonry
Outswing Shown (Inswing Similar)

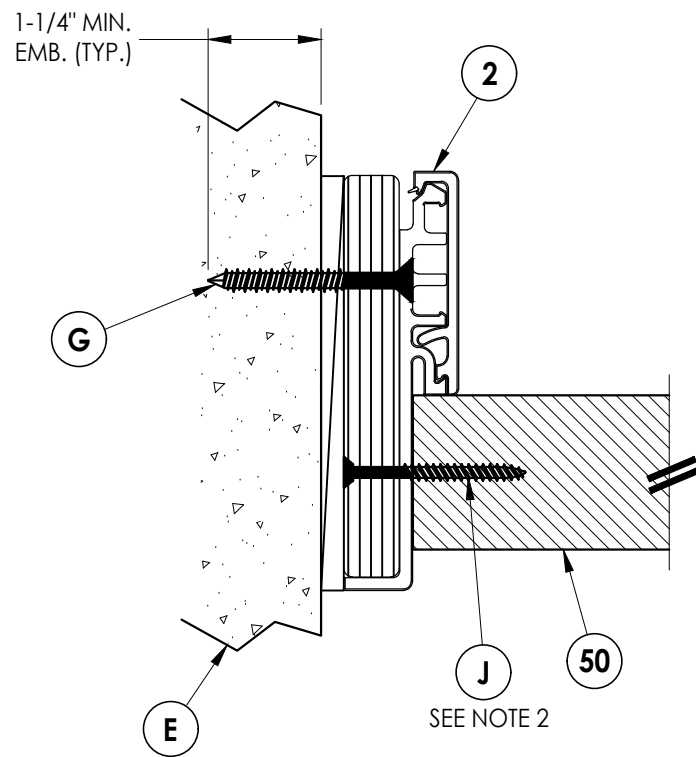
- NOTES:
1. SPACING FOR ITEM J: 6" FROM ENDS (2 TOTAL).
 2. SPACING FOR ITEM J: 6" FROM ENDS & 4 MORE EQUALLY SPACED ALONG SIDELITE (6 TOTAL).
 3. THE "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB. THE 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.



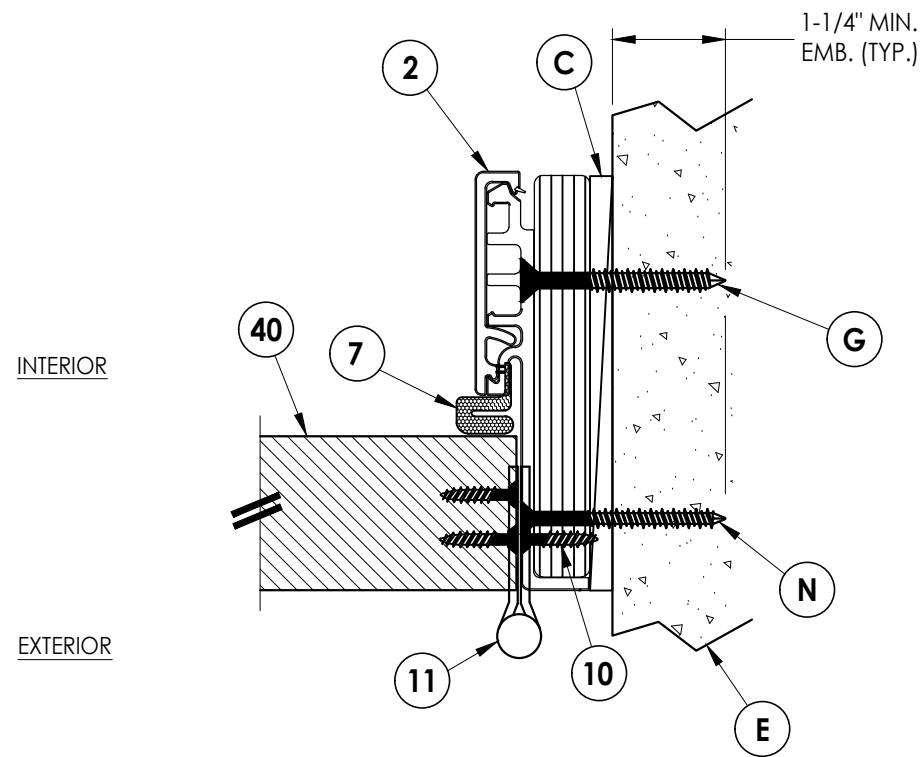
2
5 **VERTICAL CROSS SECTION**
Direct to Masonry
Outswing Shown (Inswing Similar)



3
5 **HORIZONTAL CROSS SECTION**
Direct to Masonry
Outswing Shown (Inswing Similar)



4
5 **HORIZONTAL CROSS SECTION**
Direct to Masonry
Outswing Shown (Inswing Similar)



5
5 **HORIZONTAL CROSS SECTION**
Direct to Masonry
Outswing Shown (Inswing Similar)

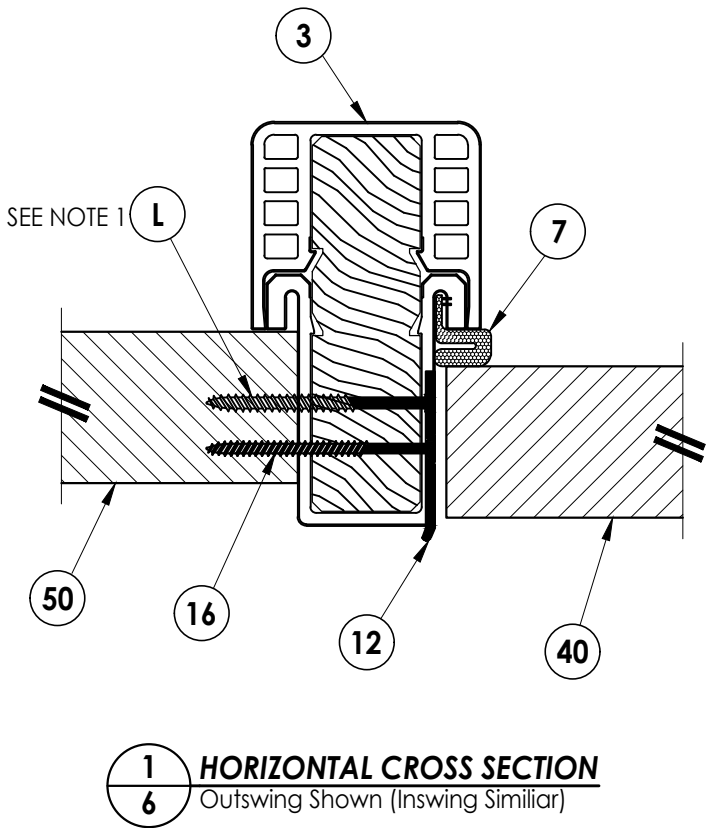
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

PRODUCT: ENDURA COMPONENTS
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)

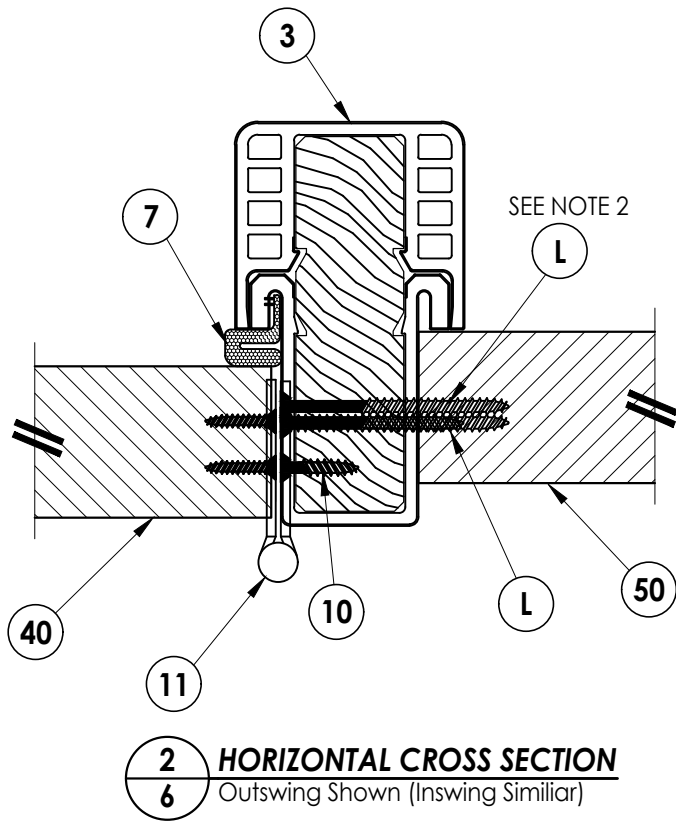
NO.	DATE	REVISIONS
3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/03/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	6/18/19	REVISE D.P. FOR NEW TESTING LFS

DATE: 2/04/19
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-25610.8
SHEET 5 OF 12



INTERIOR

EXTERIOR



INTERIOR

EXTERIOR

NOTES:

1. ITEM L LOCATED AS FOLLOWS (5 TOTAL):
FROM TOP OF MULLION DOWN @ 6", 20.5" & 35".
FROM BOTTOM OF MULLION UP @ 6" & 20.5".
2. SPACING FOR ITEM D: CENTERED BETWEEN EACH
HINGE (3 TOTAL).

DATE:

2/04/19

SCALE:

N.T.S.

DWG. BY:

RW

CHK. BY:

LFS

DRAWING NO.:

FL-25610.8

SHEET

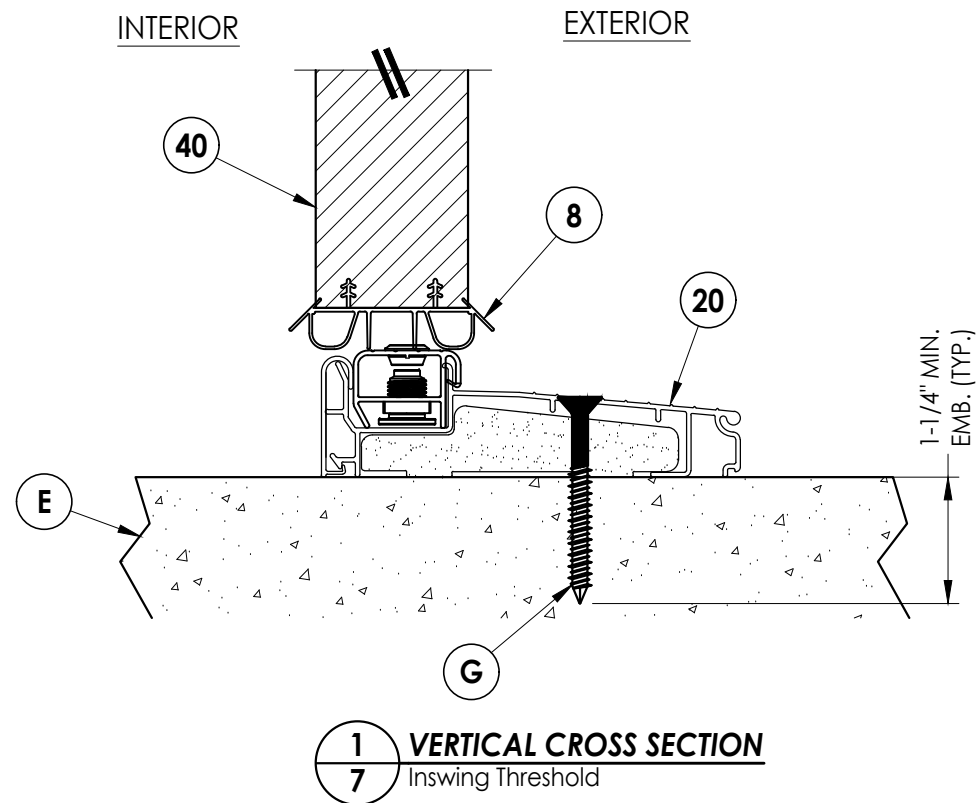
6

OF

12

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



1 7 VERTICAL CROSS SECTION Inswing Threshold

3 7 VERTICAL CROSS SECTION Inswing Threshold

2 **VERTICAL CROSS SECTION**
7 Outswing Threshold

4 7 VERTICAL CROSS SECTION Outswing Threshold

NOTE:

1. SPACING FOR ITEMS J & H: 6" FROM ENDS (2 TOTAL).

3	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	8/03/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
1	6/18/19	REVISE D.P.	FOR NEW TESTING		LFS
NO.	DATE				BY
					REVISIONS

DATE: 2/04/19

SCALE: N.T.S.

DWG. BY: *RW*

CHK. BY: LFS

DRAWING NO.:

FL-25610.8

SHEET 7 OF 12

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



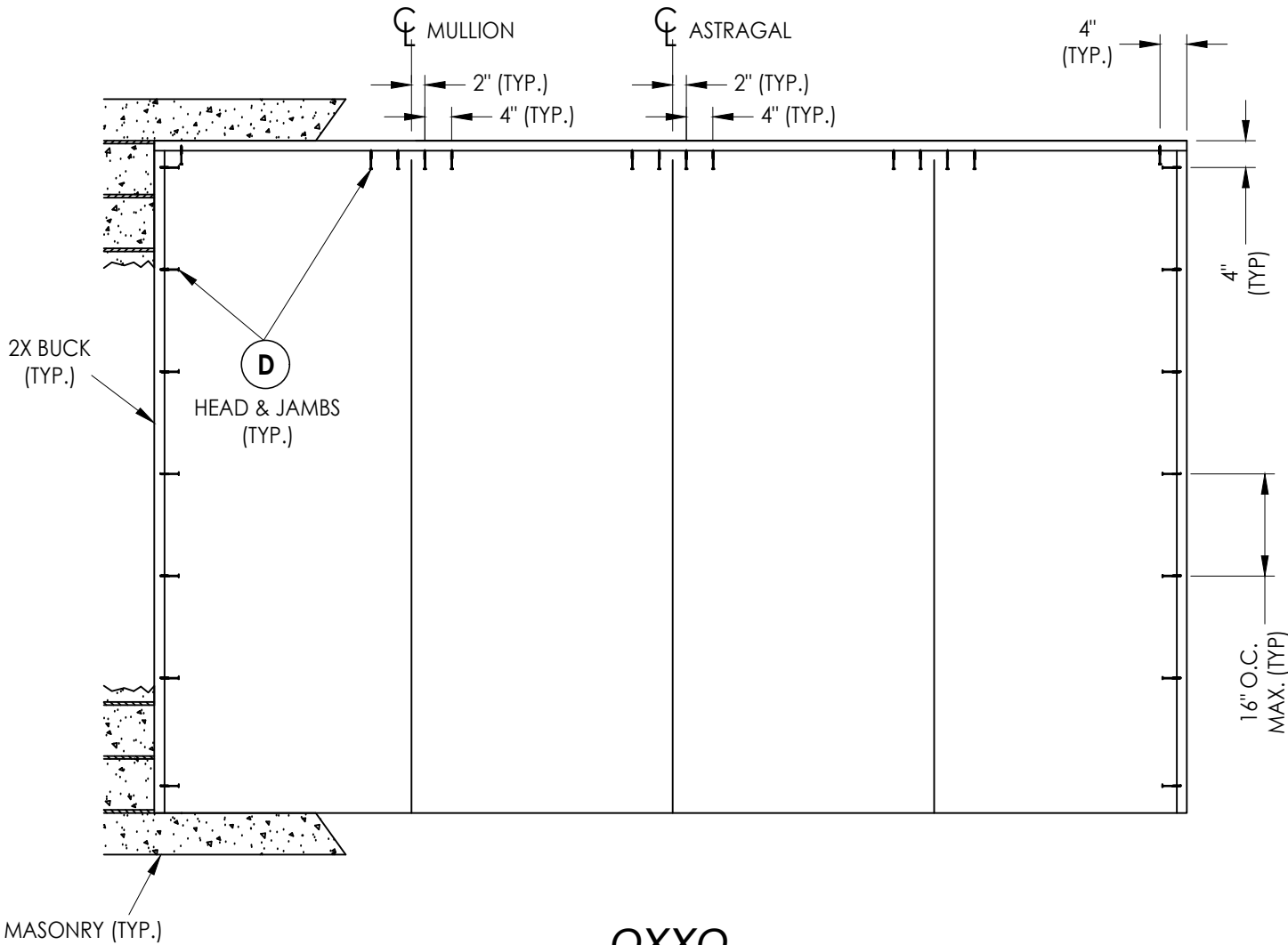
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SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-25610.8
SHEET	8 OF 12

[illegible]

PRODUCT:	ENDURA COMPONENTS
PART OR ASSEMBLY:	2X BUCK ANCHORING (0.75 x 1.0 x 0.75)

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



2X BUCK ANCHORING

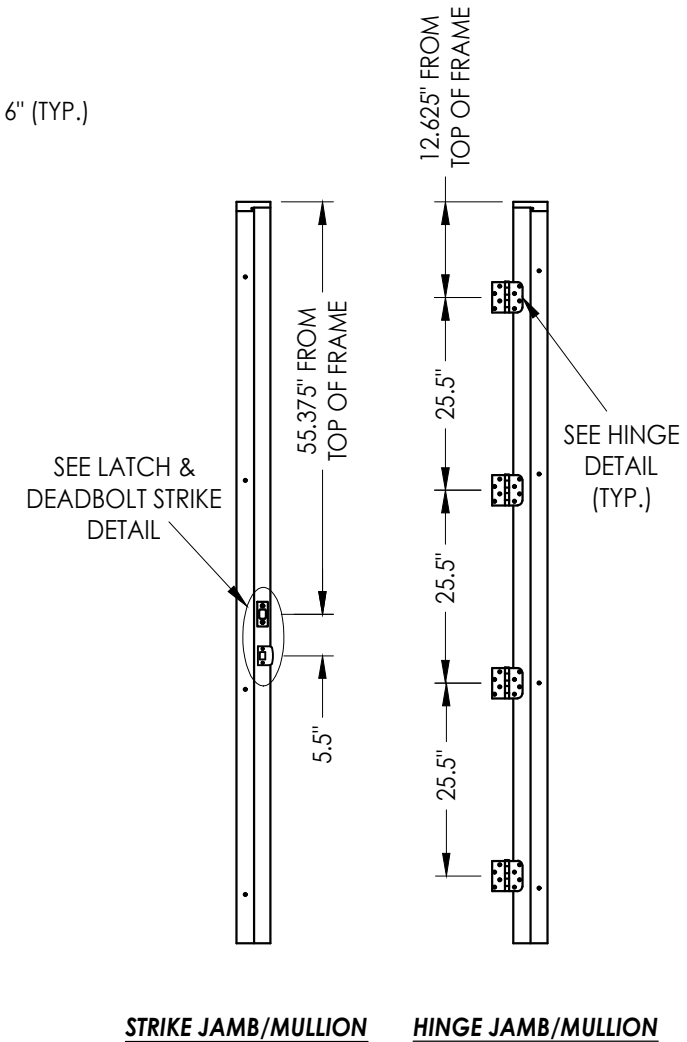
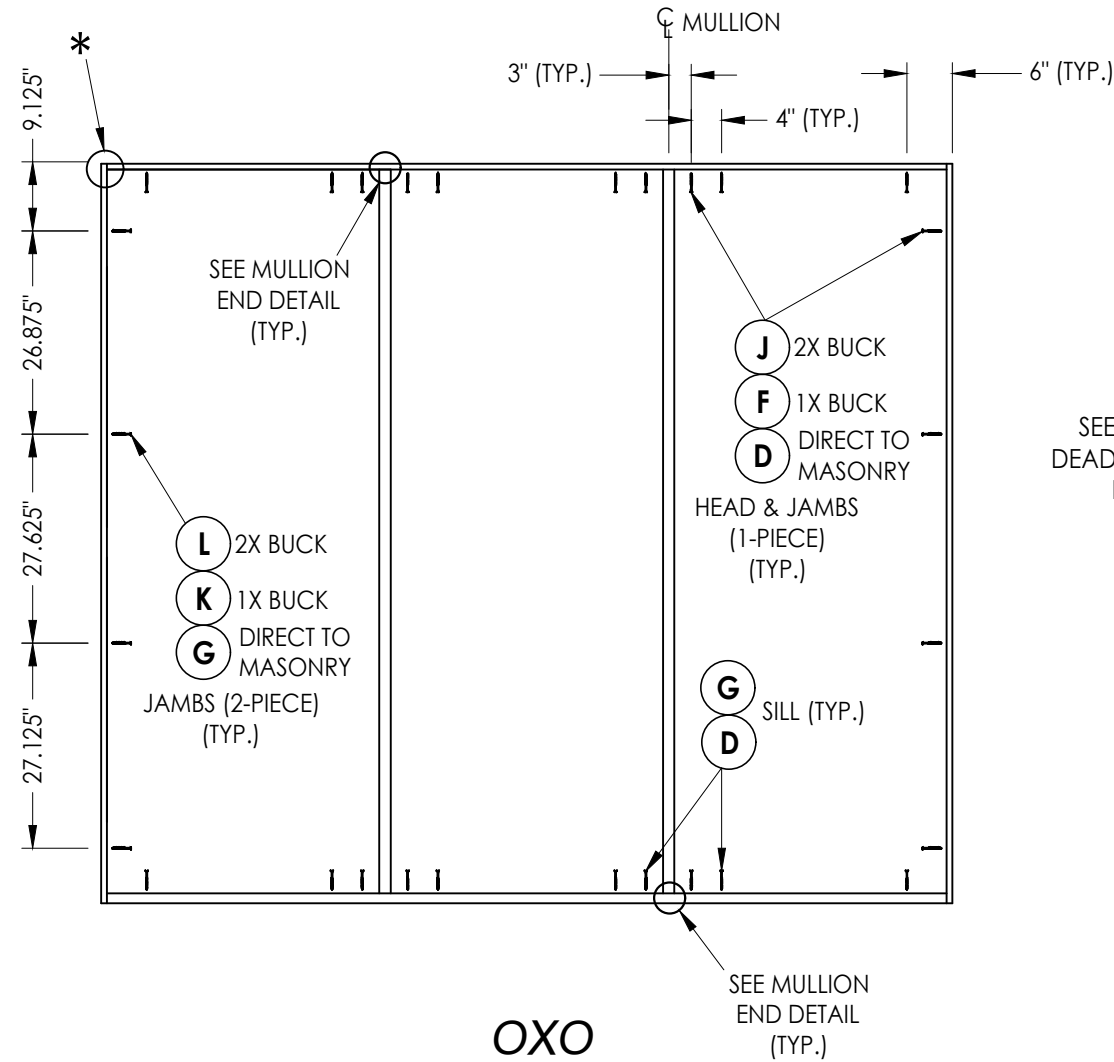
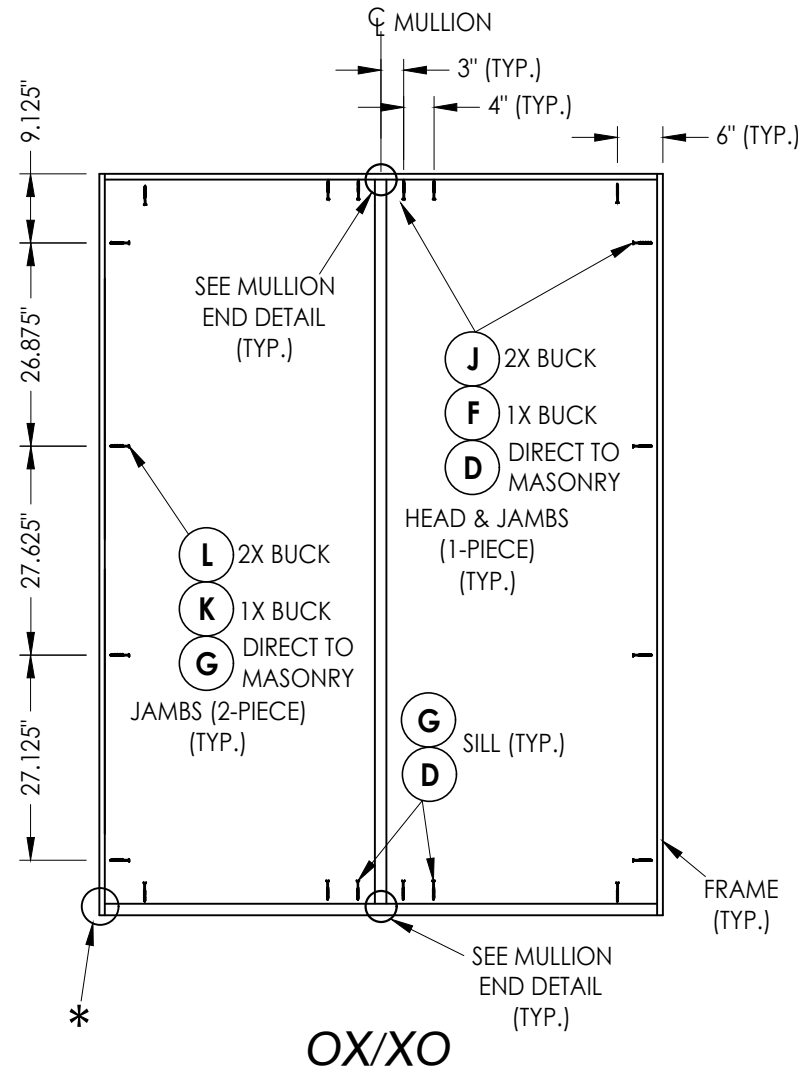
OXXO

DATE:	2/04/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-25610.8
SHEET	9 OF 12

3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
1	6/18/19	REVISE D.P. FOR NEW TESTING		BY	
NO.	DATE				
REVISIONS					

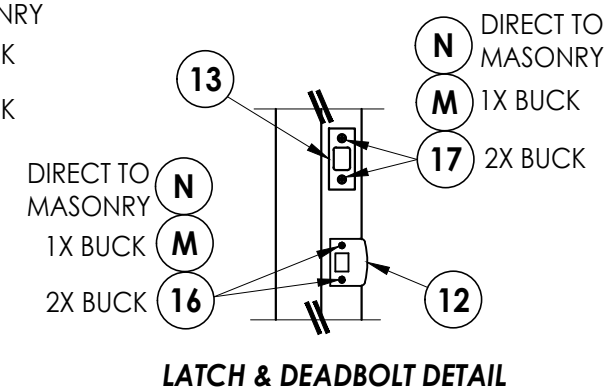
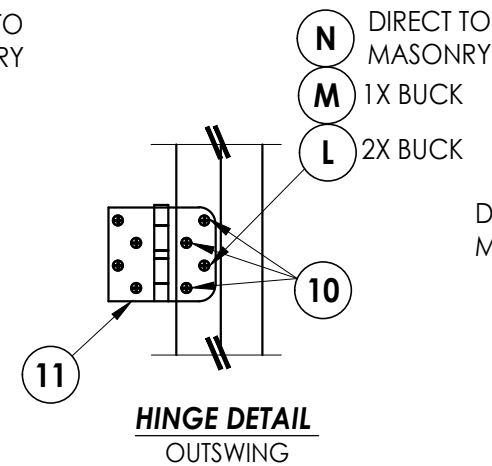
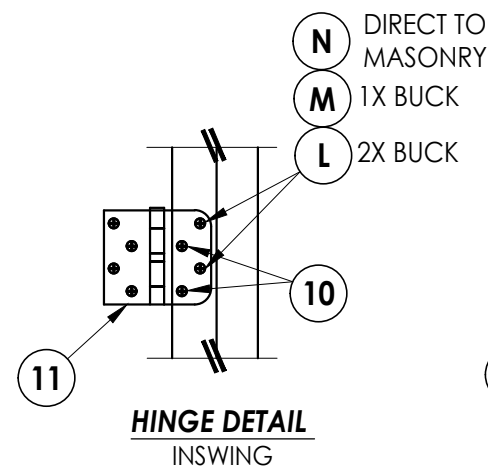
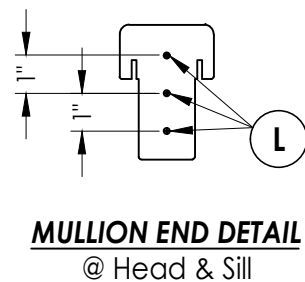
PRODUCT:	ENDURA COMPONENTS
PART OR ASSEMBLY:	2X BUCK ANCHORING (OXXO)

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

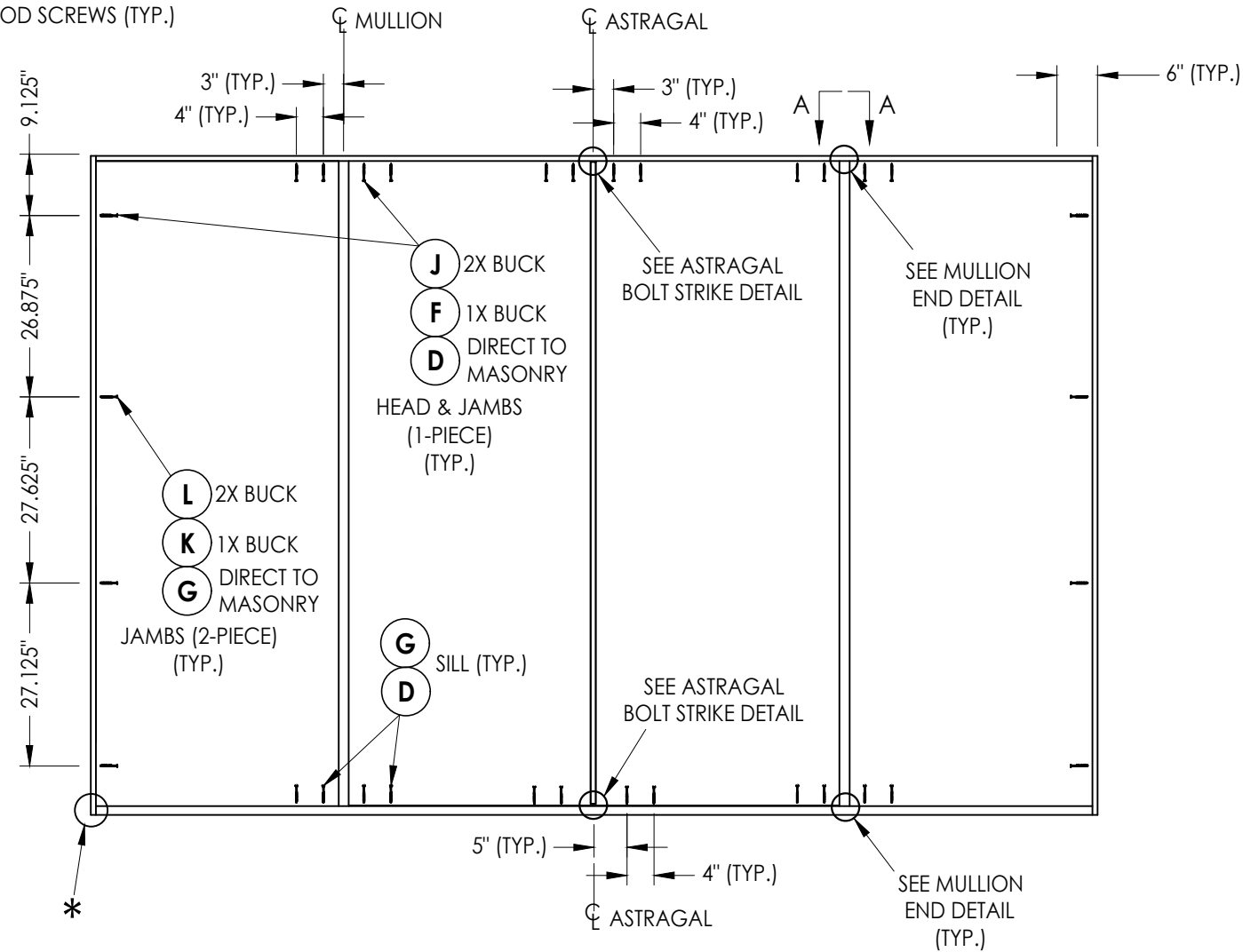


FRAME ANCHORING

JAMB NOTE:
THE "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB. THE 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.

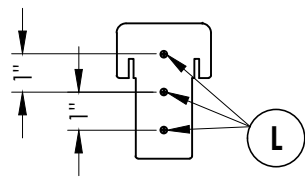
[illegible]

*NOTE: FRAME CORNERS ATTACHED w/
(3) #7 X 2" FH WOOD SCREWS (TYP.)

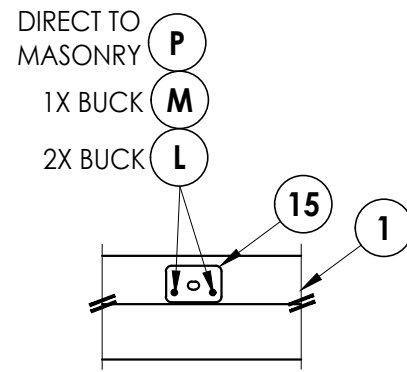


OXXO FRAME ANCHORING

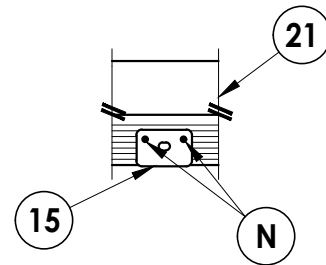
JAMB NOTE:
THE "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB. THE 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.



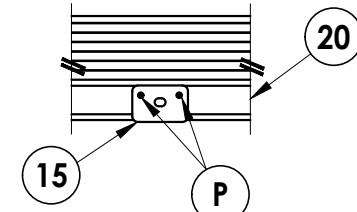
MULLION END DETAIL
@ Head & Sill



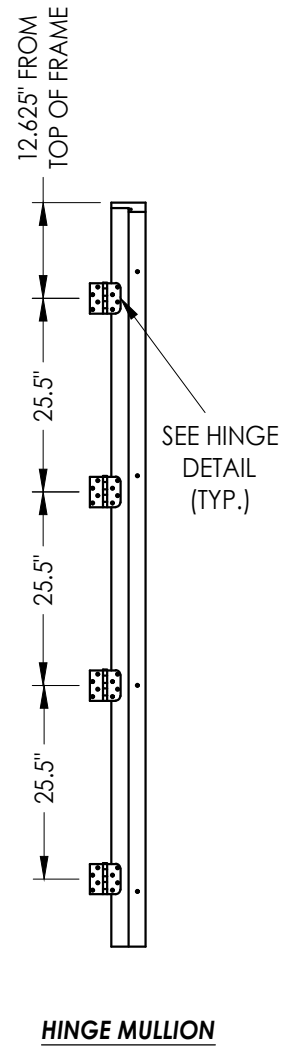
ASTRAGAL BOLT STRIKE DETAIL
@ HEAD



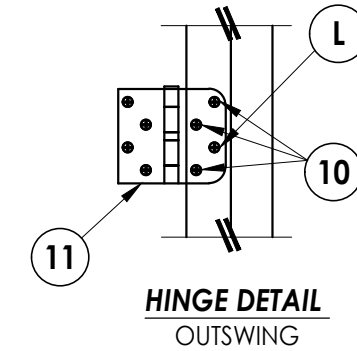
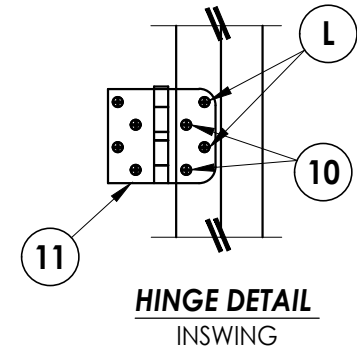
ASTRAGAL BOLT STRIKE DETAIL
@ OUTSWING SILL



ASTRAGAL BOLT STRIKE DETAIL
@ INSWING SILL



HINGE MULLION



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: ENDURA COMPONENTS

PART OR ASSEMBLY:
FRAME ANCHORING (OXXO)
& HARDWARE DETAILS

NO.	DATE	REVISIONS
3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/03/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	6/18/19	REVISE D.P. FOR NEW TESTING LFS
		BY

DATE: 2/04/19
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-25610.8
SHEET 11 OF 12

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.55)	WOOD
B	2X BUCK (SG >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
H	#10 X 3" PFH WOOD SCREW	STEEL
J	#10 X 2" PFH WOOD SCREW	STEEL
K	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (MIN. EMBEDMENT: 1-1/2" @ JAMBS, 1" @ HEAD)	STEEL
M	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
N	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
P	3/16" X 2-3/4" PFH ITW CONCRETE SCREW	STEEL
1	HEAD/SIDE JAMB (1-PIECE) (ENDURA "FusionFrame")	COMP/LVL
2	SIDE JAMB (2-PIECE) (ENDURA "FusionFrame")	COMP/LVL
3	MULLION (ENDURA "FusionFrame")	COMP/WOOD
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
10	#9 X 3/4" PFH WOOD SCREW	STEEL
11	4" X 4" HINGE	STEEL
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
15	ASTRAGAL SHOOTBOLT STRIKE PLATE	STEEL
16	#8 X 2-1/2" PFH WOOD SCREW	STEEL
17	#12 X 2-1/2" PFH WOOD SCREW	STEEL
20	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
21	OUTSWING THRESHOLD	ALUM/COMP
22	INSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
23	OUTSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
40	DOOR PANEL (BY OTHERS - SEE GENERAL NOTE 5, SHEET 1)	-
50	SIDELITE PANEL (BY OTHERS - SEE GENERAL NOTE 5, SHEET 1)	-

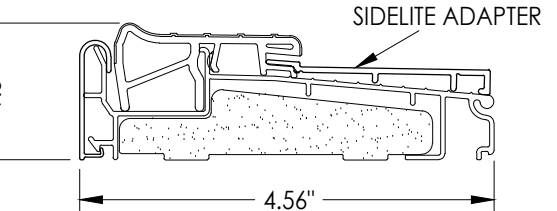
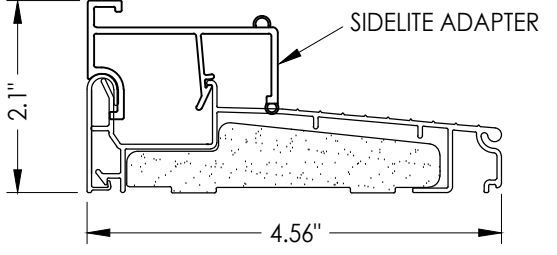
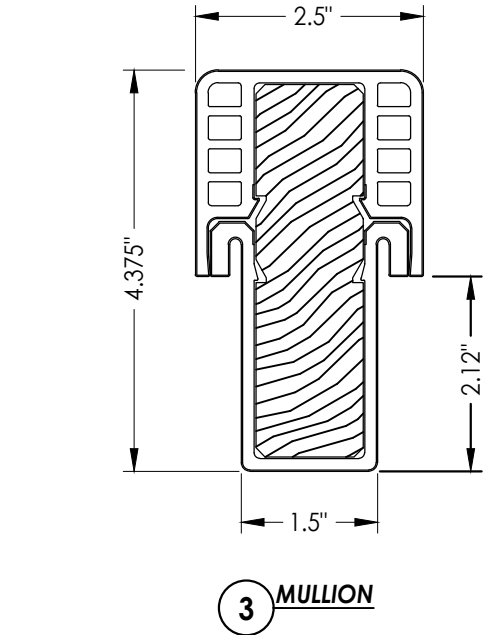
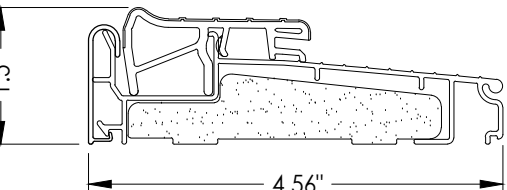
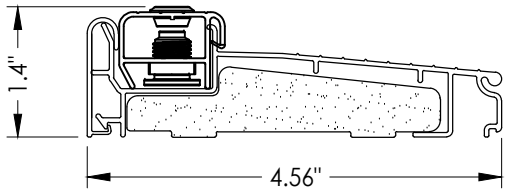
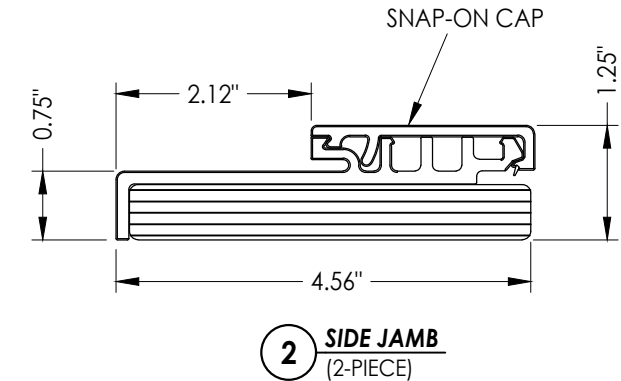
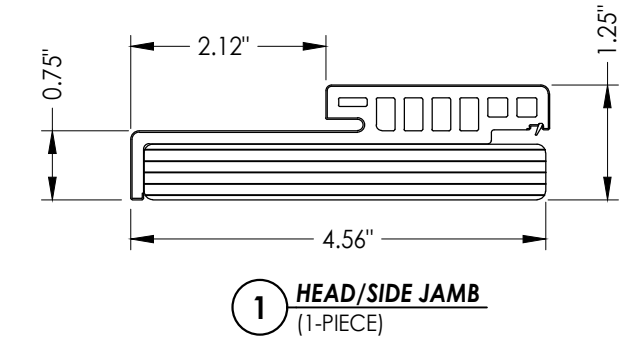
CONCRETE ANCHOR NOTES:

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®	3/16"	1-1/4"	3"	1-1/2"
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

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



								RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813
ENDURA COMPONENTS								
PART OR ASSEMBLY:								
BILL OF MATERIALS & COMPONENTS								
REVISIONS								
				3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
				2	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
				1	6/18/19	REVISE D.P. FOR NEW TESTING		LFS
				NO.	DATE			BY
REVISIONS								
DATE: 2/04/19								
SCALE: N.T.S.								
DWG. BY: RW								
CHK. BY: LFS								
DRAWING NO.: FL-25610.8								
SHEET 12 OF 12								