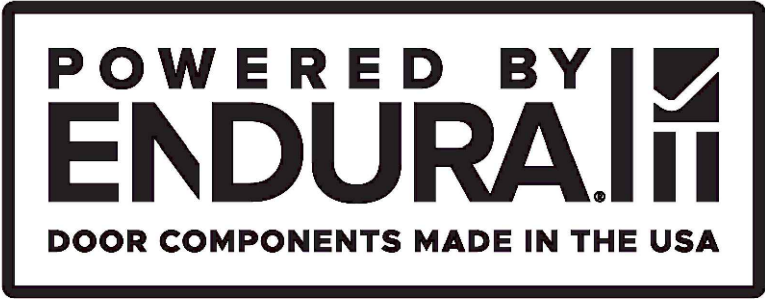


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Ultimate Multipoint Astragal

INSWING / OUTSWING

"NON-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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
- 4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- 5. This product has been tested and is approved for use in the door panels as specified in this approval. Substitution into a similar product that possess a comparable current Florida Statewide product approval may be approved for use by the local Authority Having Jurisdiction.
- 6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

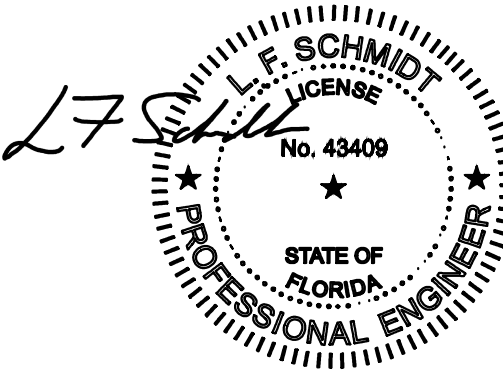
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Astragal details
3	Door panel details
4	Horizontal and vertical cross sections
5	Threshold details
6	Buck and frame anchoring



Ultimate Multipoint Astragal

ULTIMATE MULTIPOINT ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
THERMA TRU Flush Glazed (FIBERGLASS)	INSWING	74.44" X 98"	+45.0	-45.0
	OUTSWING	74.44" X 97.12"	+40.0	-40.0

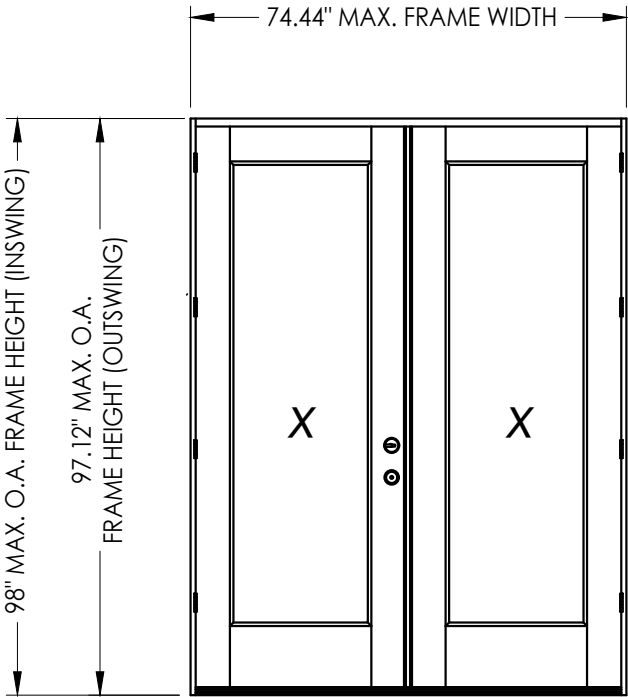
See Sheet 5 for Threshold Design Pressure Limitations



Digitally signed by Lyndon F Schmidt
Date: 2023.07.13 15:12:39 -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

ENDURA

Part or Assembly:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

7

7/06/23

UPDATE TO 8TH ED. (2023) FBC

6

8/03/20

UPDATE TO 7TH ED. (2020) FBC

5

9/05/17

UPDATE TO 6TH ED. (2017) FBC

4

6/13/16

ADD THRESHOLD DETAILS

3

4/19/16

ADD ALUMINUM ARTICULATING SILL

NO.

DATE

REVISIONS

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

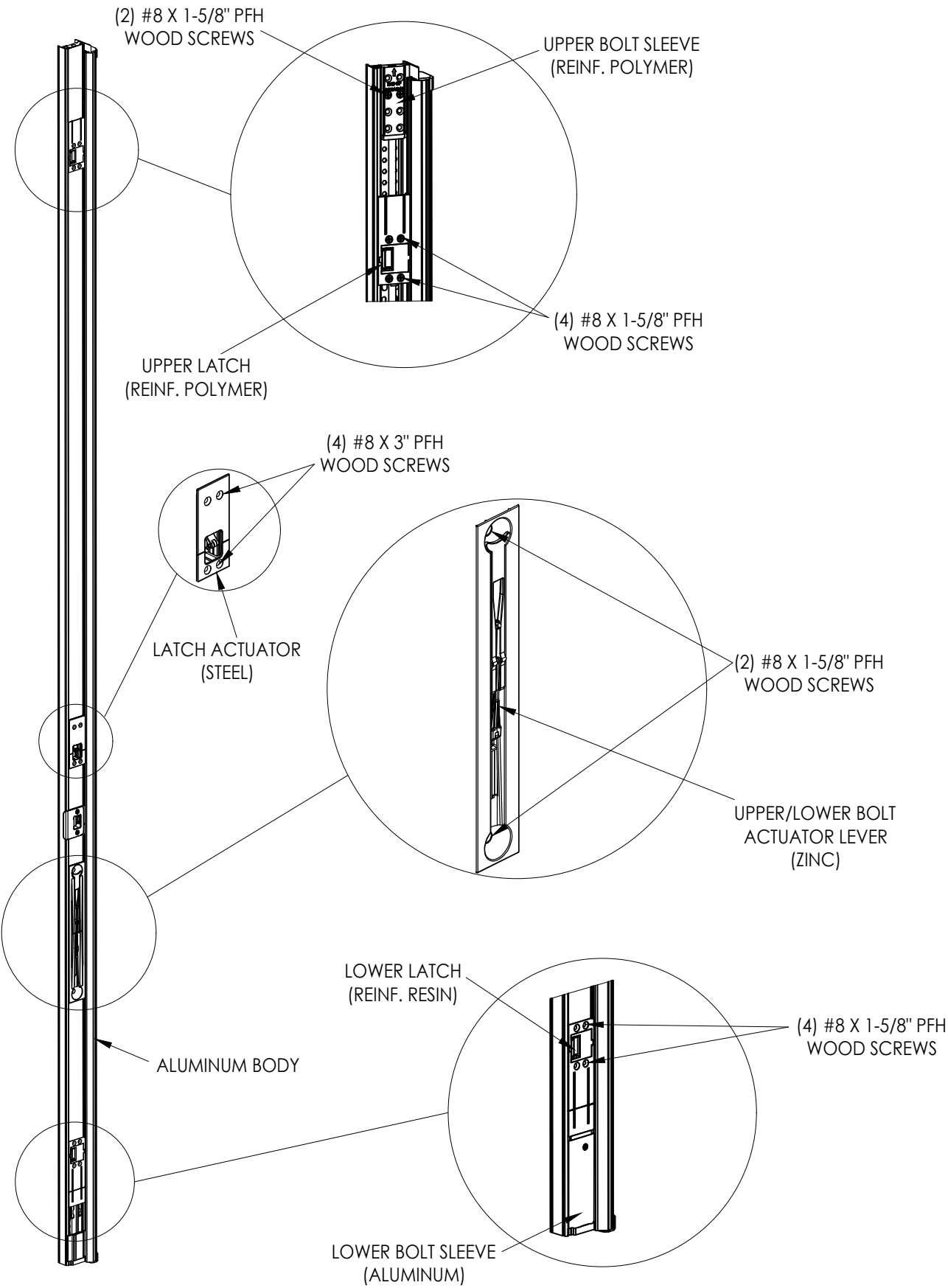
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DRAWING NO.: FL-14818.12

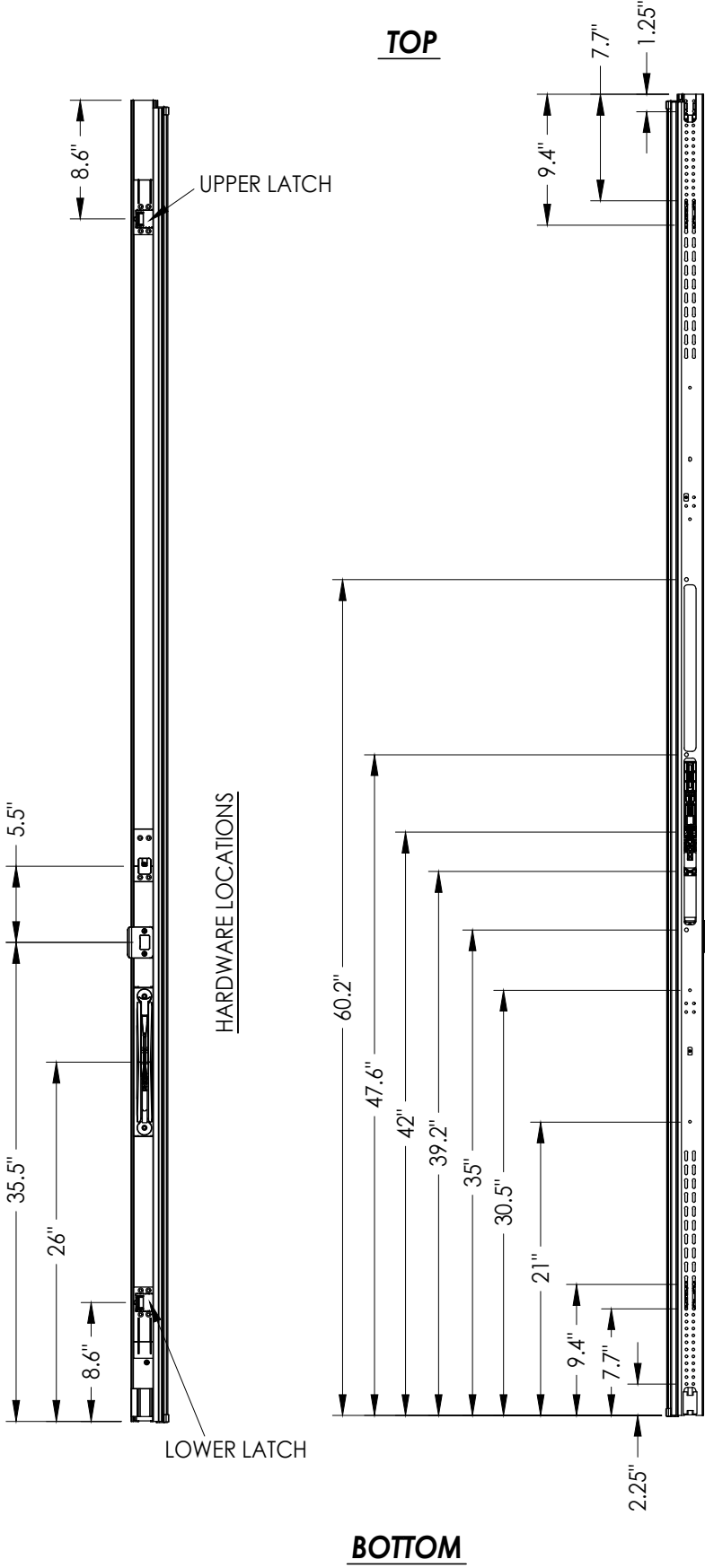
SHEET 1 OF 6

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

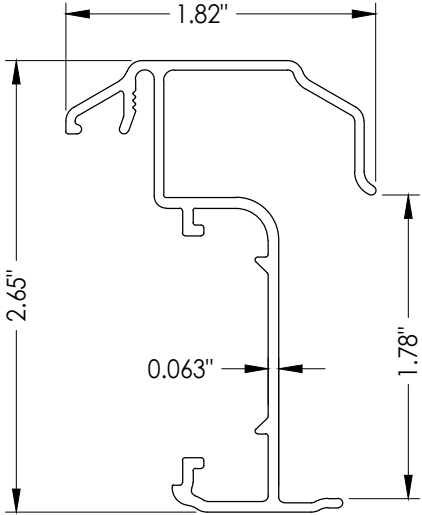
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ULTIMATE MULTIPOINT ASTRAGAL



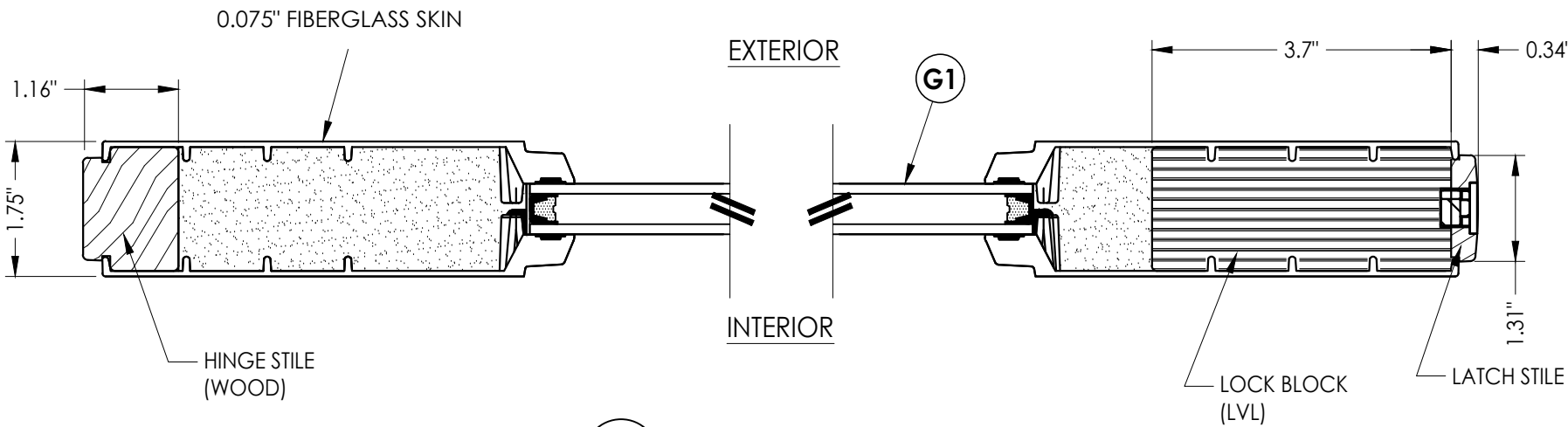
ANCHOR SCREW LOCATIONS



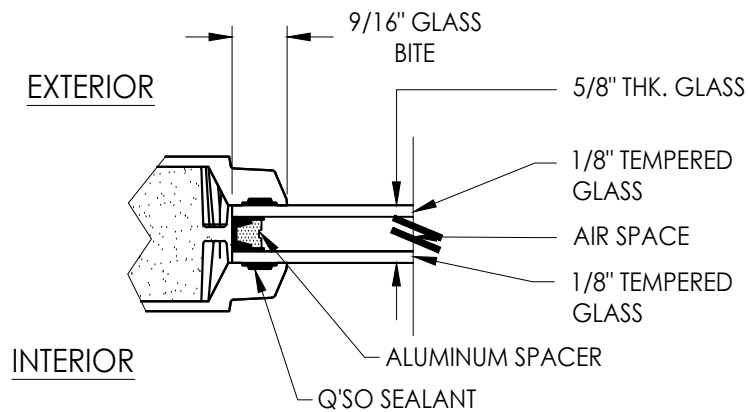
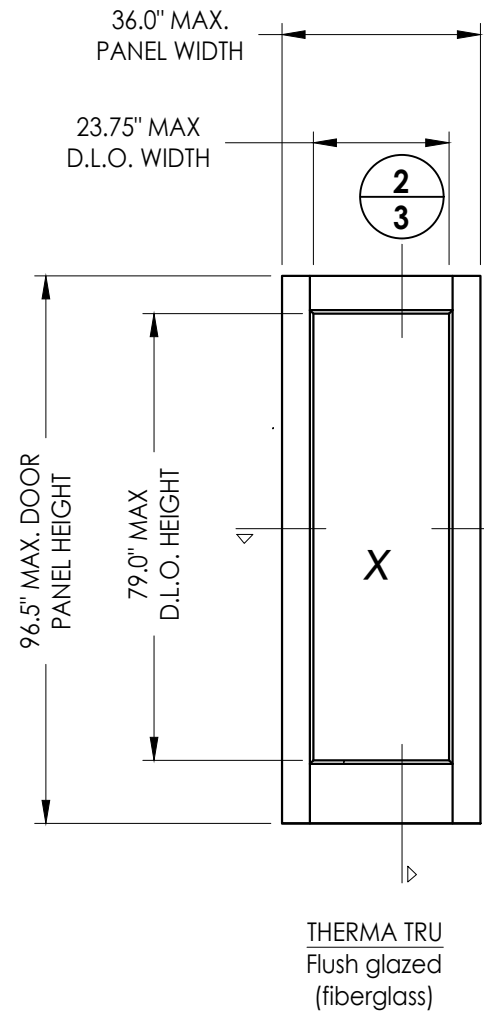
ASTRAGAL SECTION

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: ENDURA				PART OR ASSEMBLY: ASTRAGAL DETAILS			
7	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
6	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
5	9/05/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
4	6/13/16	ADD THRESHOLD DETAILS		LFS			
3	4/19/16	ADD ALUMINUM ARTICULATING SILL		LFS			
NO.	DATE			BY			
REVISIONS							
DATE: 8/30/11							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-14818.12							
SHEET 2 OF 6							

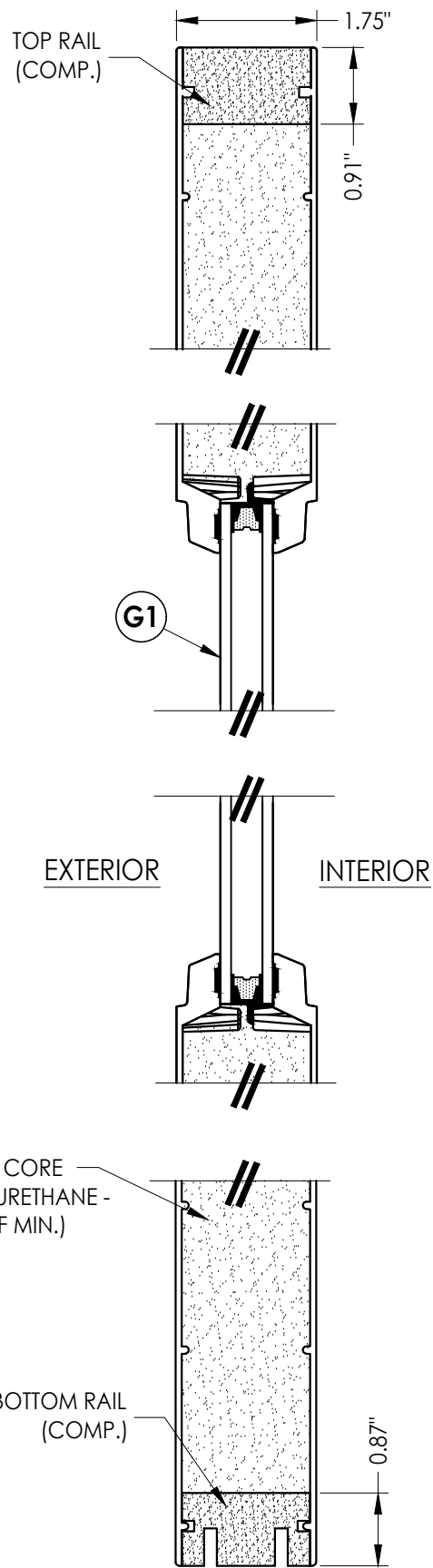
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1
3 HORIZONTAL CROSS SECTION



G1 GLAZING DETAIL



2
3 VERTICAL CROSS SECTION

NO.	DATE	REVISIONS			
		BY	LFS	FBC	LFS
7	7/06/23		UPDATE TO 8TH ED. (2023)	FBC	LFS
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4	6/13/16		ADD THRESHOLD DETAILS		LFS
3	4/19/16		ADD ALUMINUM ARTICULATING SILL		LFS

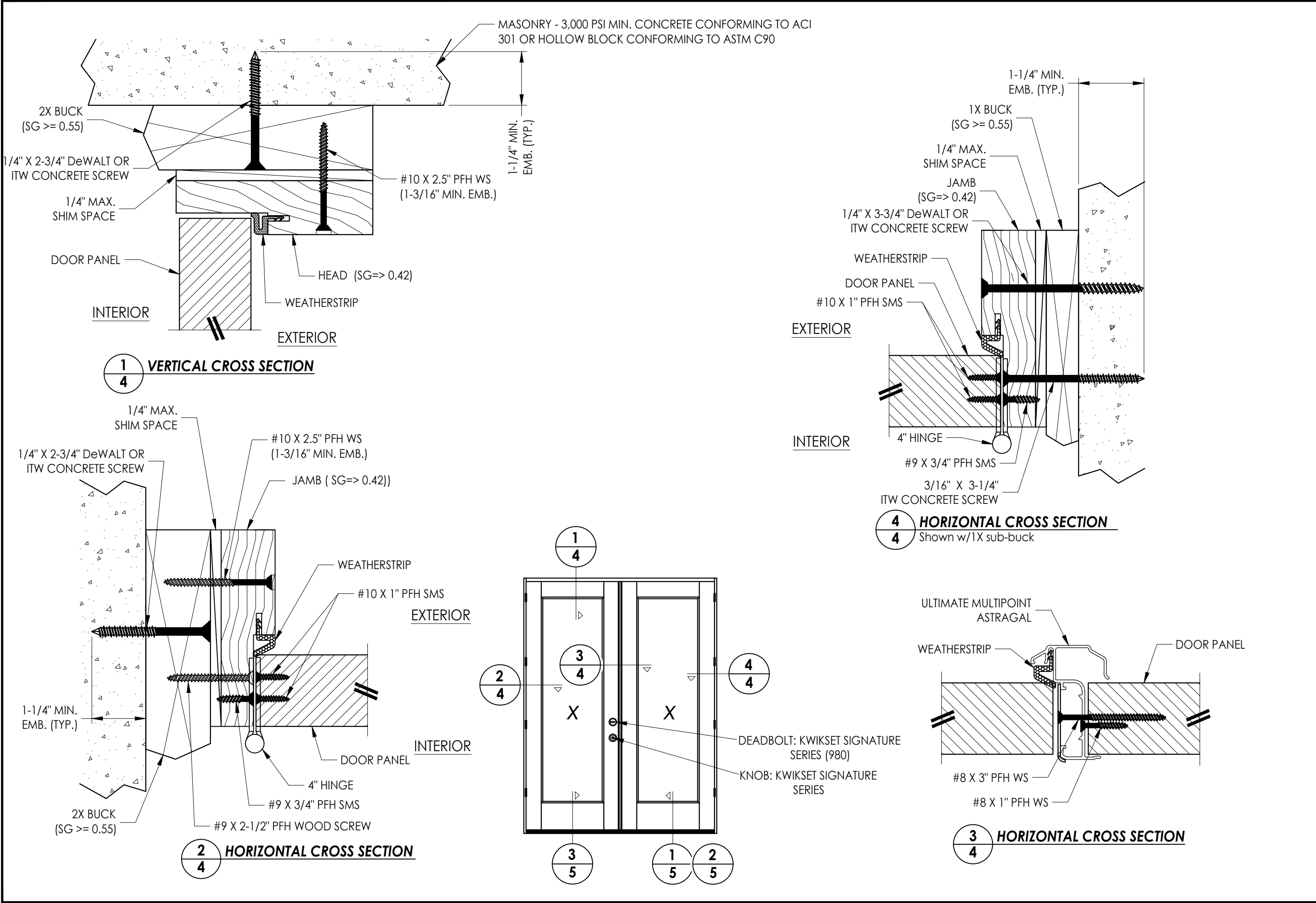
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14818.12
SHEET	3 OF 6

PRODUCT:	ENDURA
PART OR ASSEMBLY:	DOOR PANEL DETAILS & GLAZING DETAIL

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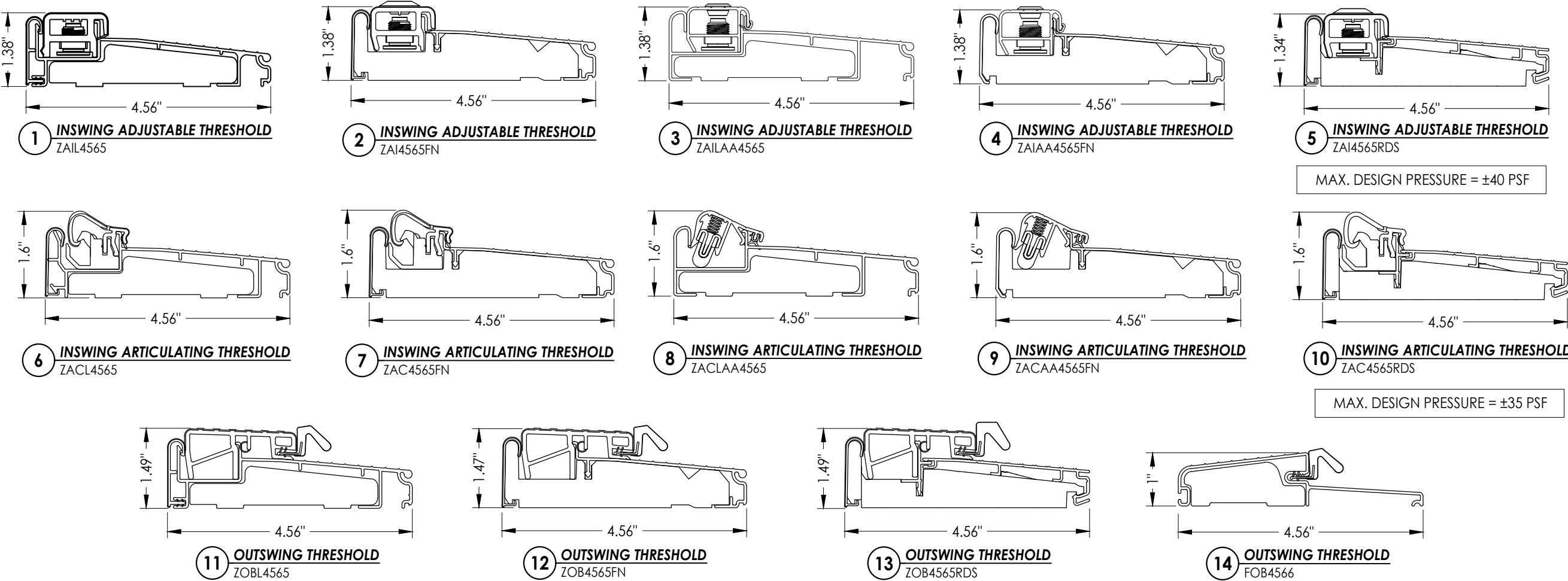
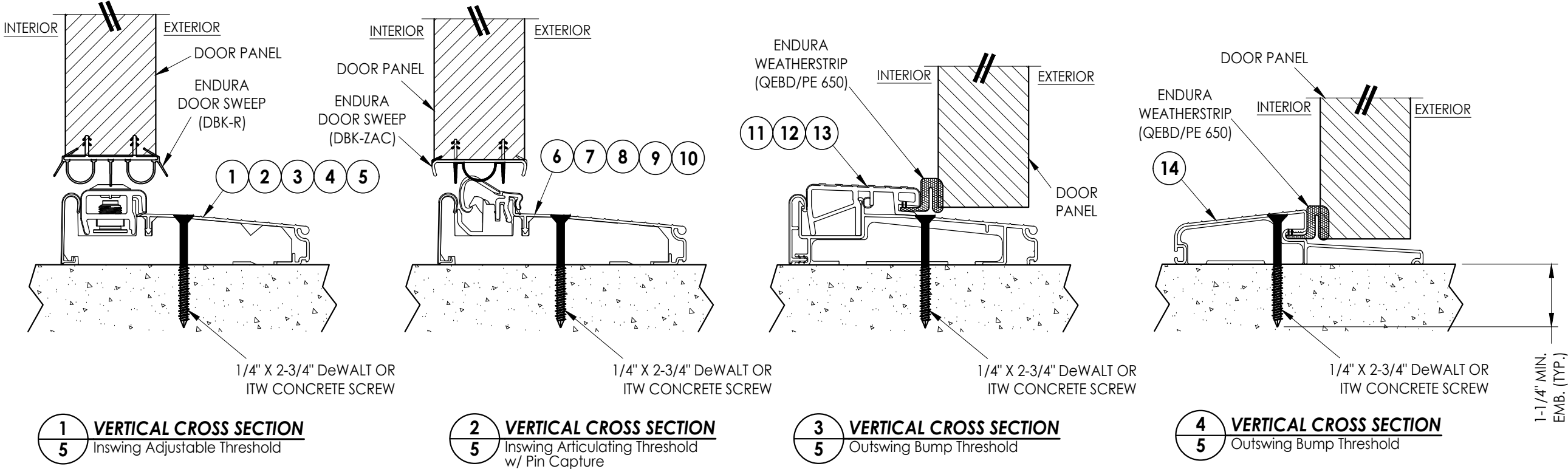

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PRODUCT: ENDURA		PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS	
7	7/06/23	UPDATE TO 8TH ED. (2023) FBC	LFS
6	8/03/20	UPDATE TO 7TH ED. (2020) FBC	LFS
5	9/05/17	UPDATE TO 6TH ED. (2017) FBC	LFS
4	6/13/16	ADD THRESHOLD DETAILS	LFS
3	4/19/16	ADD ALUMINUM ARTICULATING SILL	LFS
NO.	DATE		BY
REVISIONS			
DATE: 8/30/11			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14818.12			
SHEET 4 OF 6			

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

PRODUCT: ENDURA

PART OR ASSEMBLY:
THRESHOLD
DETAILS

NO.	DATE	REVISIONS
7	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	8/03/20	UPDATE TO 7TH ED. (2020) FBC LFS
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3	4/19/16	ADD ALUMINUM ARTICULATING SILL LFS
NO.	DATE	BY

DATE: 8/30/11

SCALE: N.T.S.

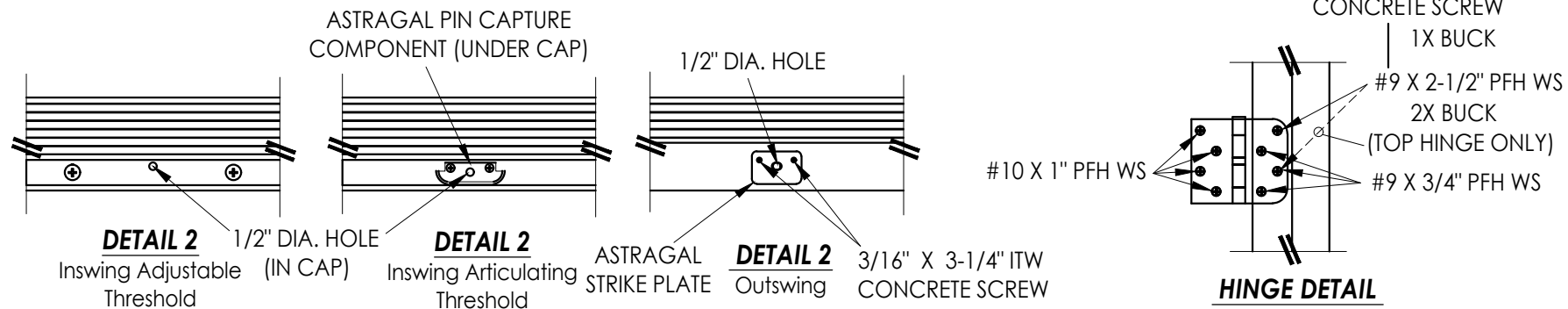
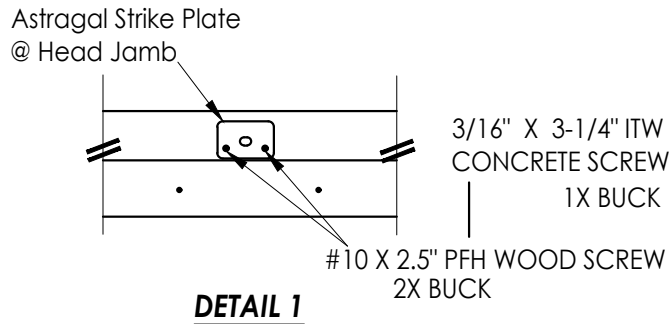
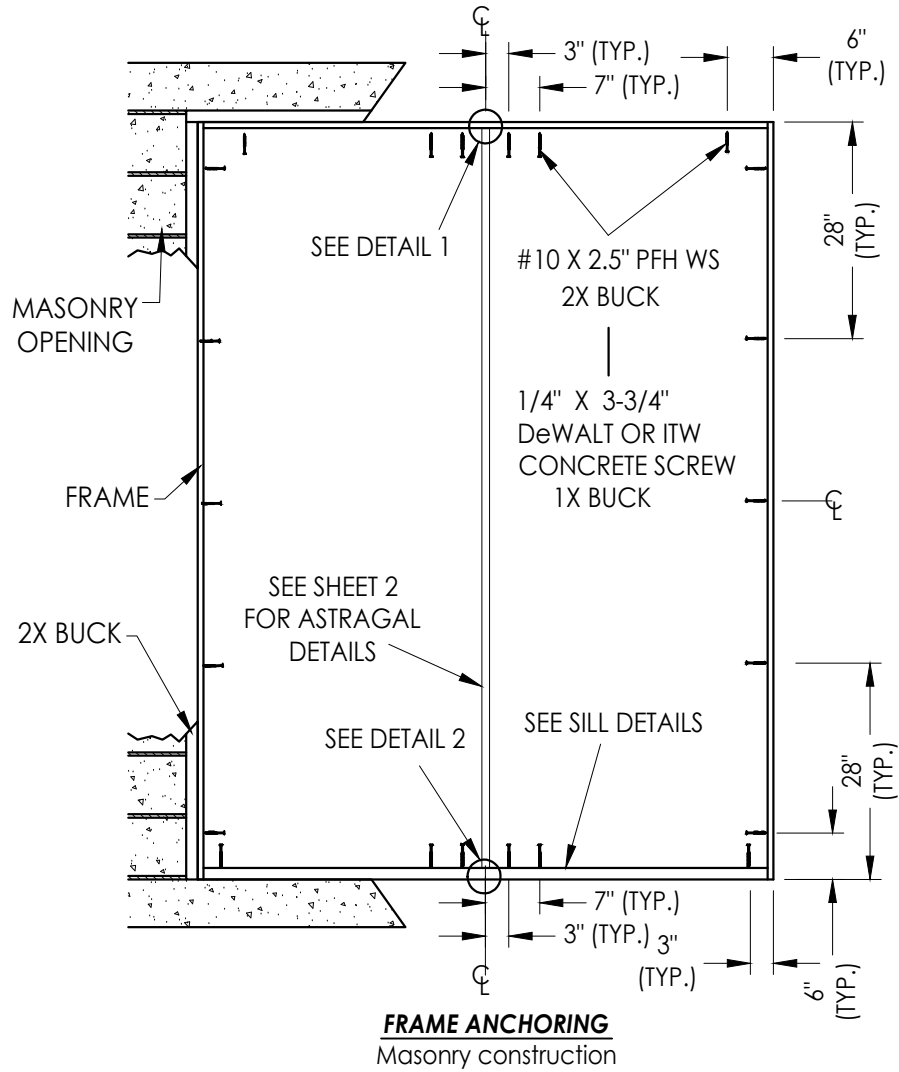
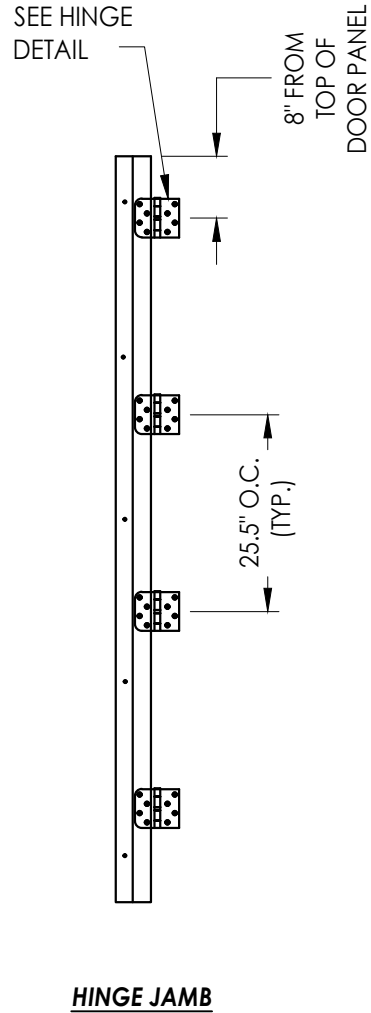
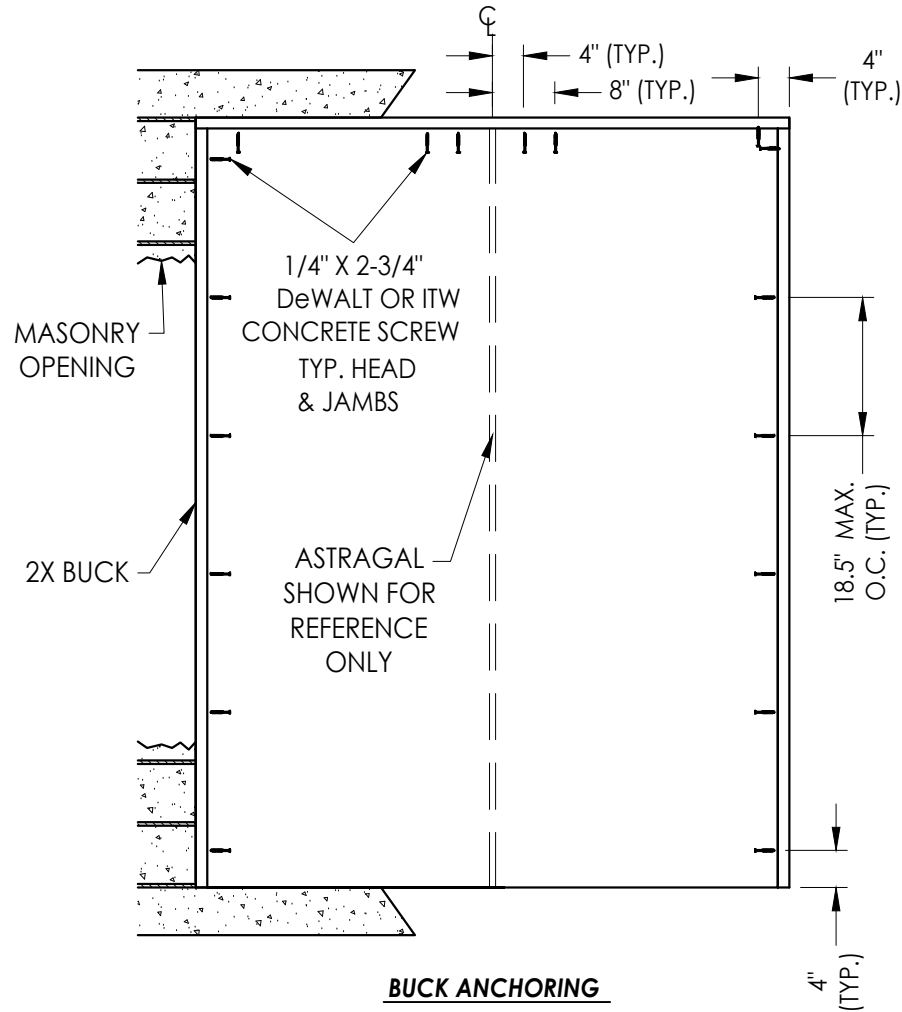
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DRAWING NO.: FL-14818.12

SHEET 5 OF 6

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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"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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:
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P.E. No. 43409

ENDURA

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

RW BUILDING CONSULTANTS, INC.
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3	4/19/16	ADD ALUMINUM ARTICULATING SILL
2		
1		

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14818.12

SHEET 6 OF 6