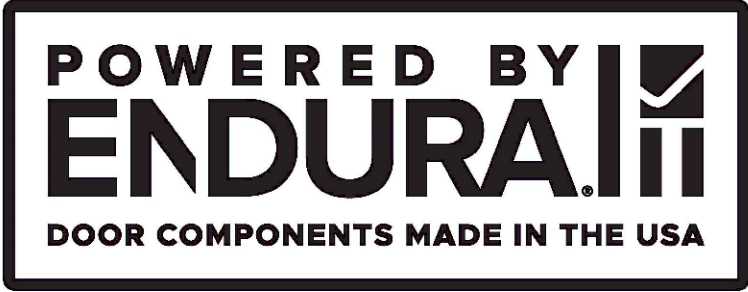


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Ultimate Flip Lever Astragal

INSWING / OUTSWING

"NON-IMPACT"

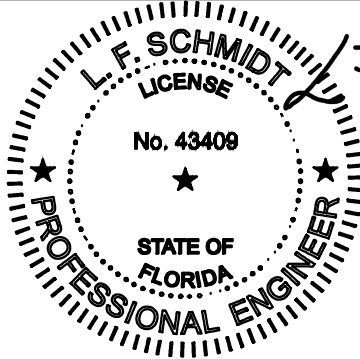
GENERAL NOTES

- 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



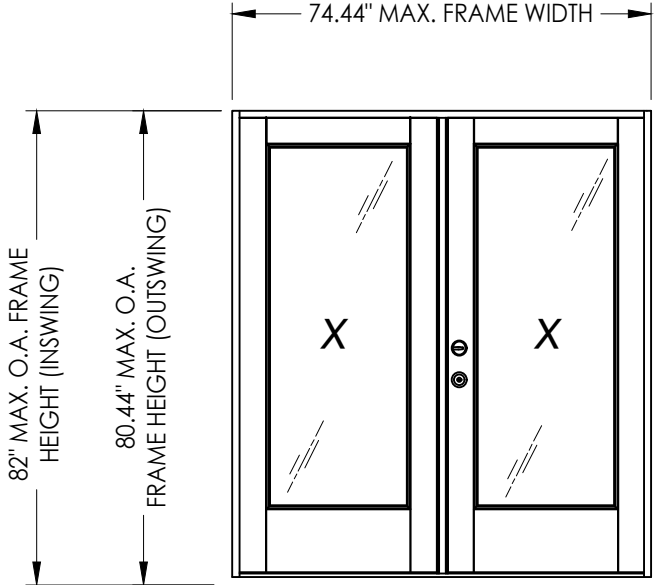
Ultimate Flip Lever Astragal



Digitally signed by Lyndon F Schmidt
Date: 2024.04.17 16:08:43 -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



ULTIMATE FLIP LEVER ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
THERMA TRU Flush Glazed (FIBERGLASS)	INSWING	74.44" X 82"	+35.0	-40.0
	OUTSWING	74.44" X 80.44"	+35.0	-35.0

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

ENDURA

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

7	4/16/24	ADD MODERN ASTRAGAL PROFILE	LFS
6	7/07/23	UPDATE TO 8TH ED. (2023)	FBC LFS
5	8/11/20	UPDATE TO 7TH ED. (2020)	FBC LFS
4	9/27/17	UPDATE TO 6TH ED. (2017)	FBC LFS
NO.	DATE		BY

REVISIONS

DATE: 8/30/11

SCALE: N.T.S.

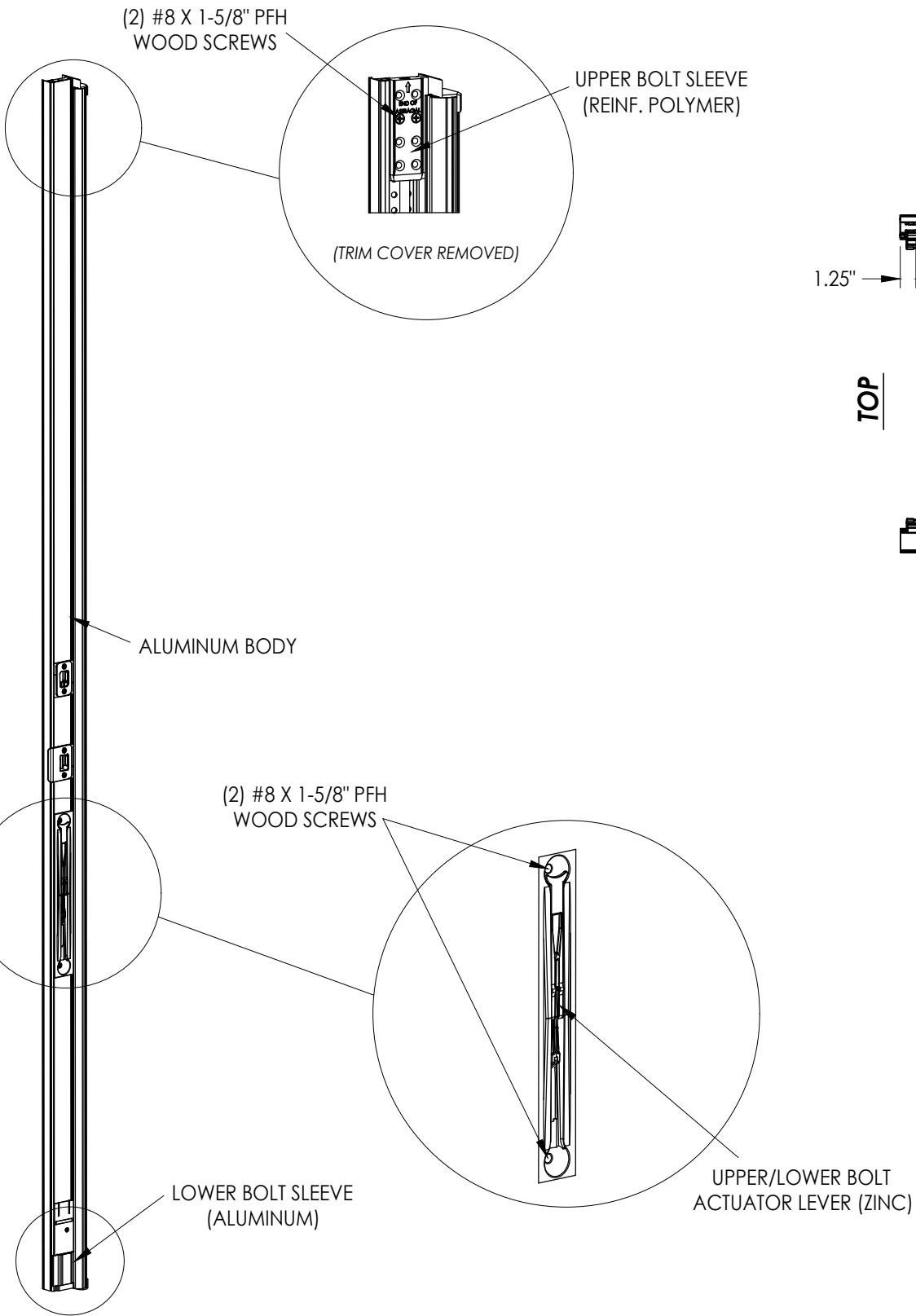
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CHK. BY: LFS

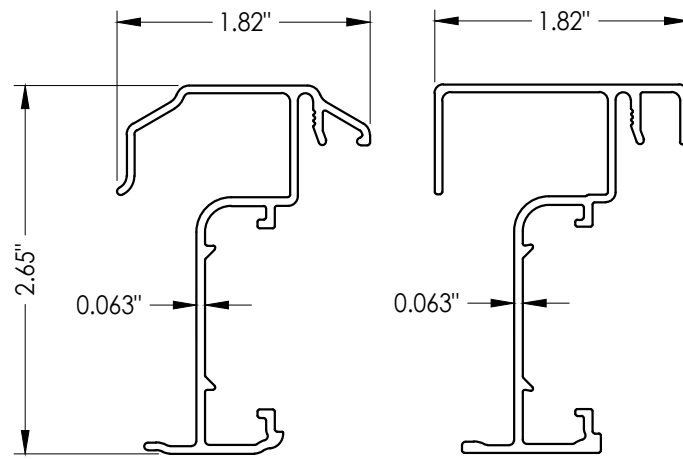
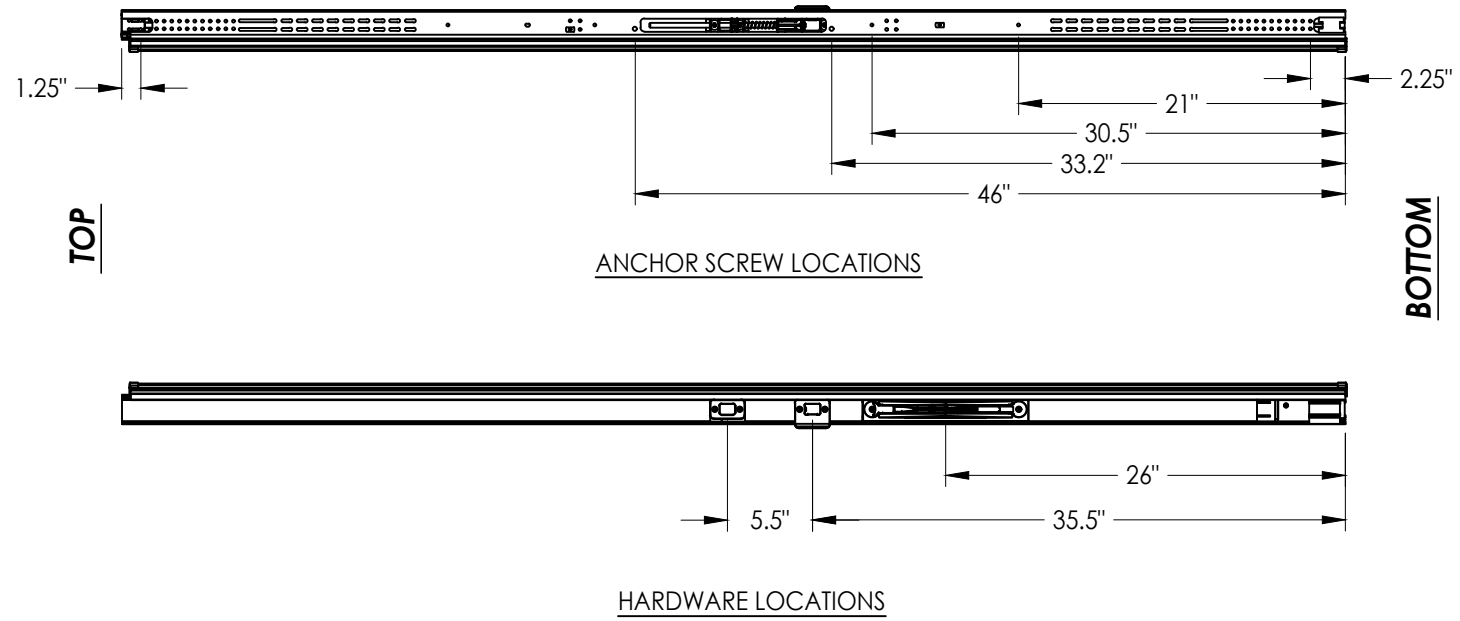
DRAWING NO.: FL-14823.3

SHEET 1 OF 6

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



ULTIMATE FLIP LEVER ASTRAGAL



"TRADITIONAL" PROFILE	"MODERN" PROFILE
1. Age 2. Gender 3. Ethnicity 4. Religion 5. Marital Status 6. Education 7. Income 8. Occupation 9. Home Ownership 10. Auto Ownership 11. Travel Frequency 12. Health Insurance 13. Life Insurance 14. Retirement Savings 15. Charitable Giving 16. Political Affiliation 17. Media Consumption 18. Technology Use 19. Environmental Concern 20. Community Involvement	1. Age 2. Gender 3. Ethnicity 4. Religion 5. Marital Status 6. Education 7. Income 8. Occupation 9. Home Ownership 10. Auto Ownership 11. Travel Frequency 12. Health Insurance 13. Life Insurance 14. Retirement Savings 15. Charitable Giving 16. Political Affiliation 17. Media Consumption 18. Technology Use 19. Environmental Concern 20. Community Involvement

ASTRAGAL SECTIONS

7	4/16/24	ADD MODERN ASTRAGAL PROFILE	LFS	
6	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
5	8/11/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
4	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
NO.	DATE			BY
				REVISIONS

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: *LFS*

DRAWING NO.:
FL-14823.3

SHEET 2 OF 6

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

PRODUCT: ENDURA

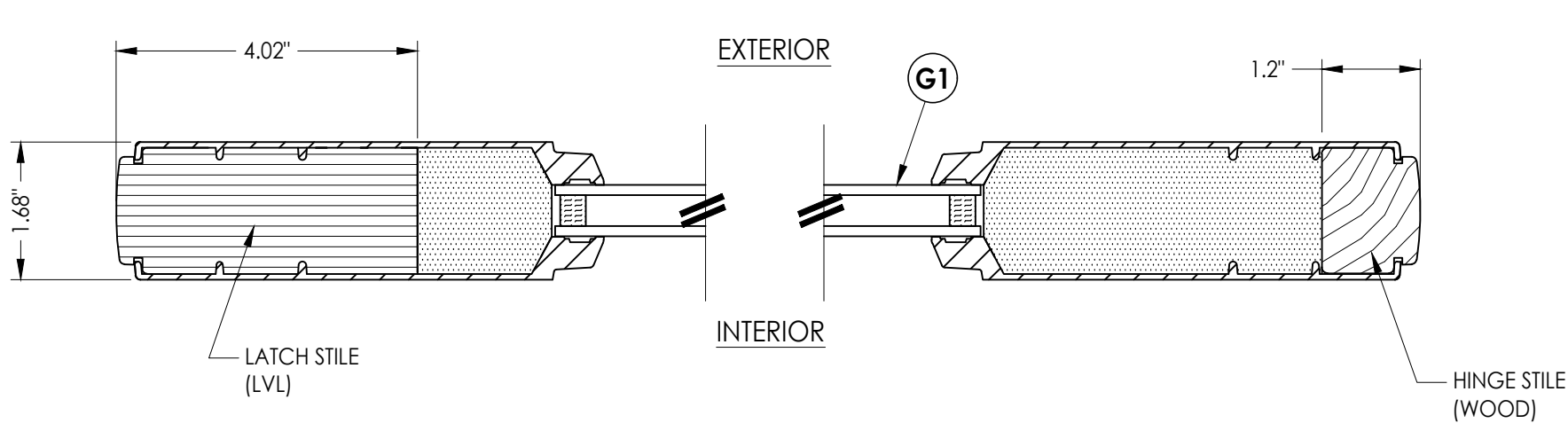
PART OR ASSEMBLY:

ASTRAGAL DETAILS

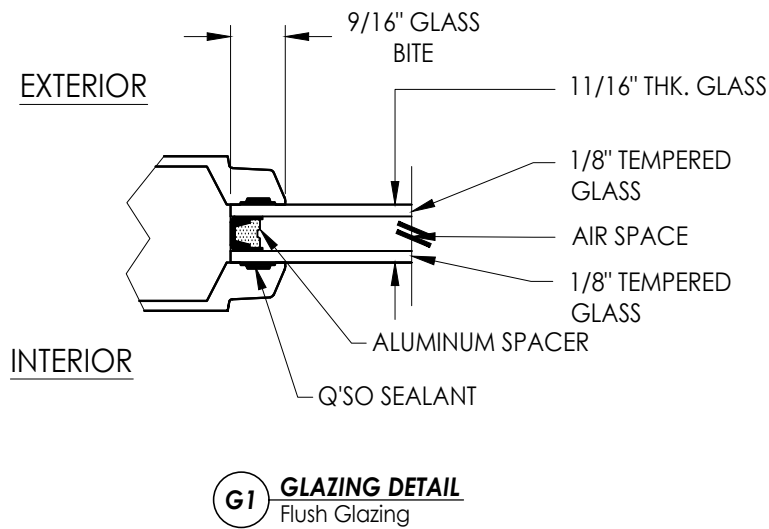
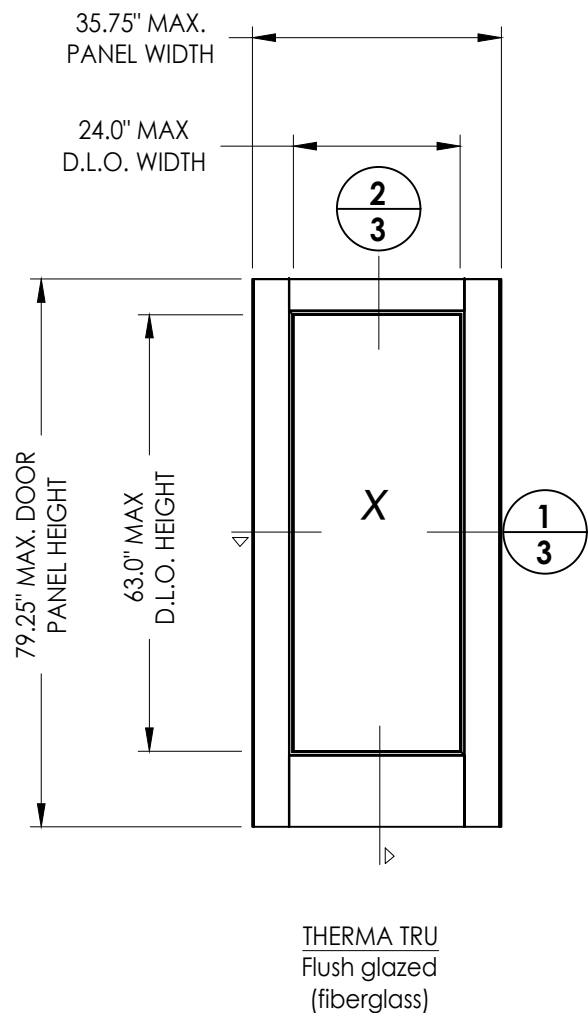
Documents Prepared By: Lyndon F. Schmidt
P.E. No. 43409

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

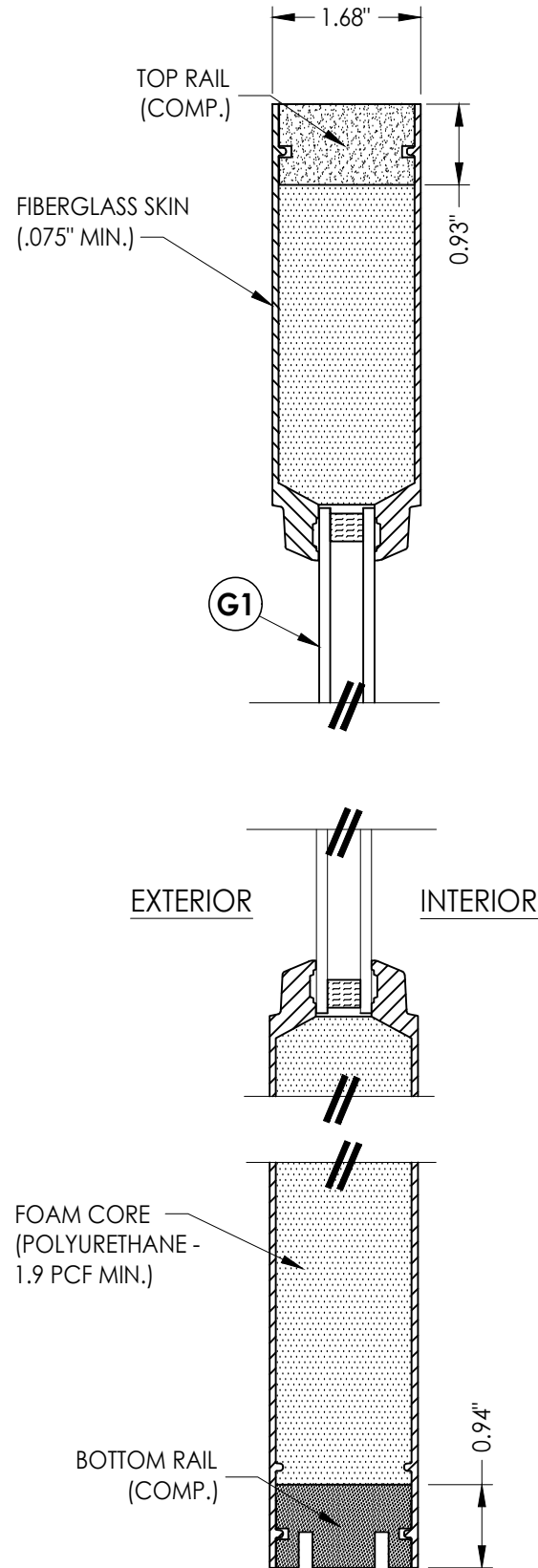
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1
3 HORIZONTAL CROSS SECTION



G1 GLAZING DETAIL
Flush Glazing



2
3 VERTICAL CROSS SECTION

Documents Prepared By:
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P.E. No. 43409

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

PRODUCT: ENDURA

PART OR ASSEMBLY:
DOOR PANEL DETAILS
& GLAZING DETAIL

NO.	DATE	REVISIONS	BY
7	4/16/24	ADD MODERN ASTRAGAL PROFILE	LFS
6	7/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS
5	8/11/20	UPDATE TO 7TH ED. (2020) FBC	LFS
4	9/27/17	UPDATE TO 6TH ED. (2017) FBC	LFS

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

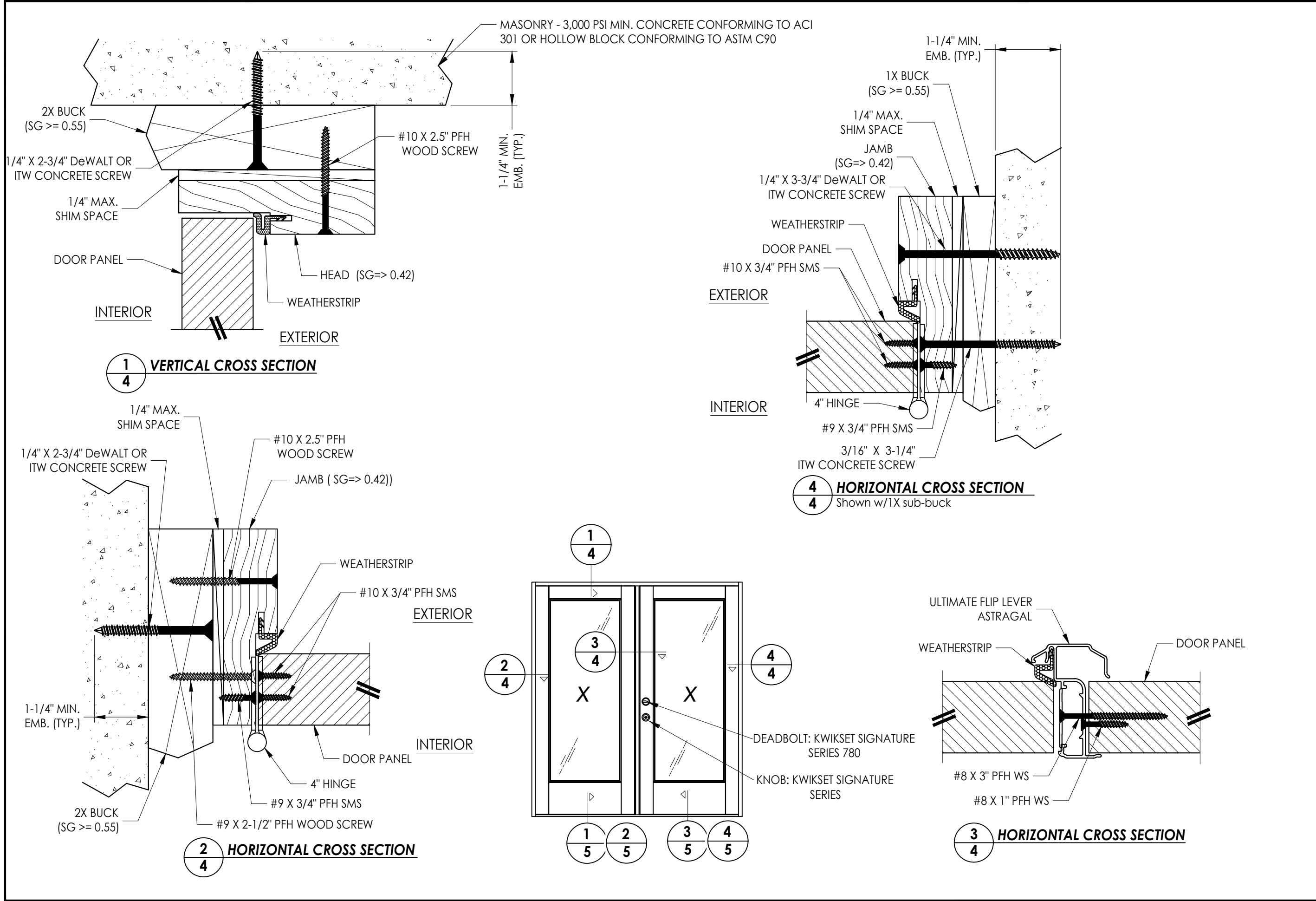
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DRAWING NO.:

FL-14823.3

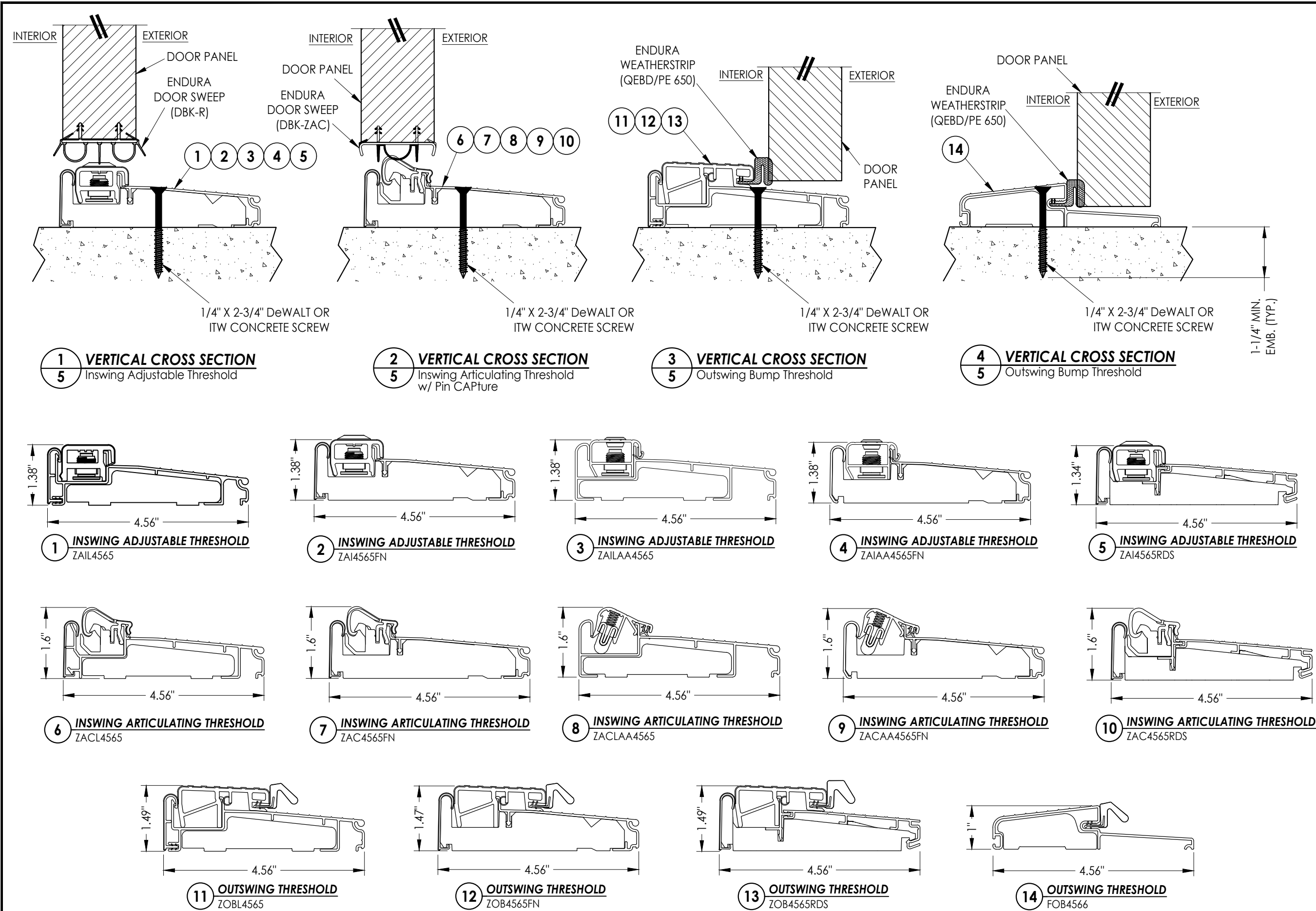
SHEET 3 OF 6

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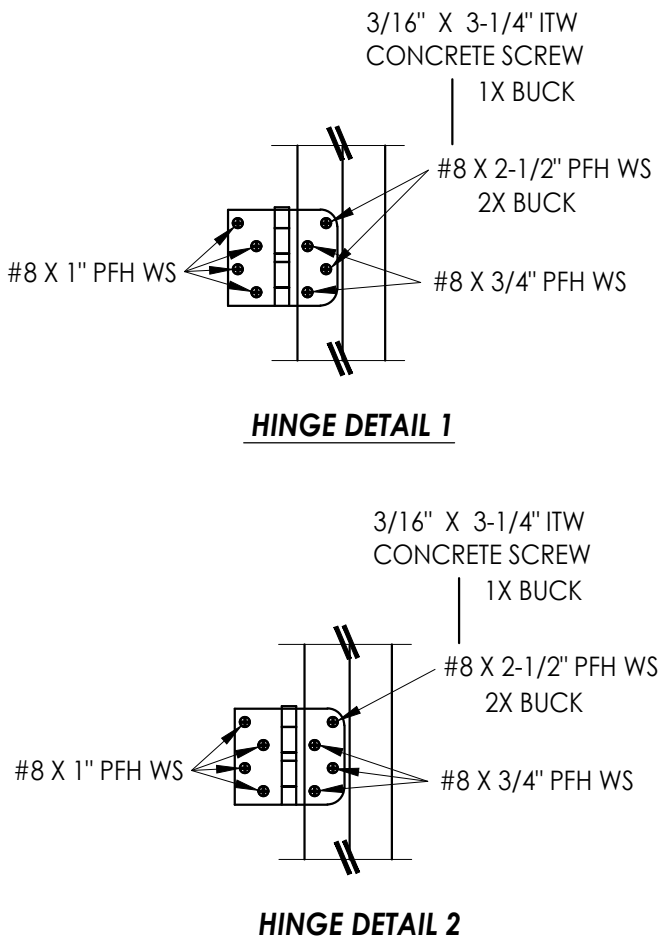
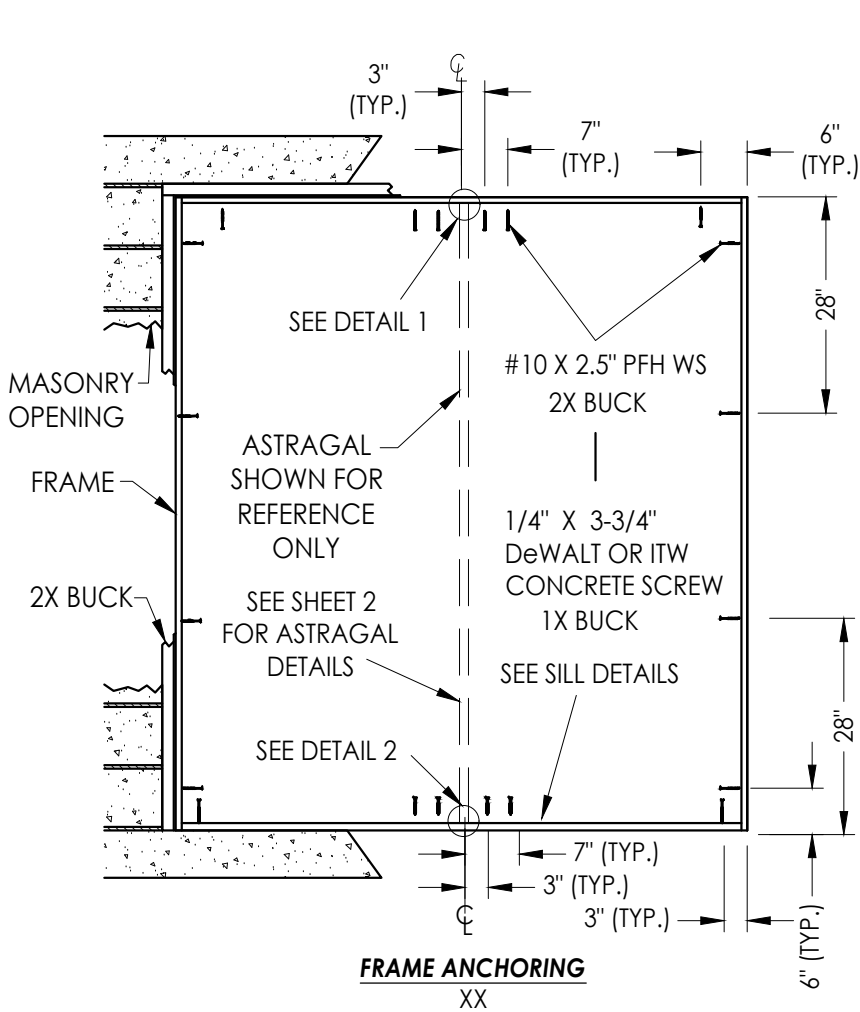
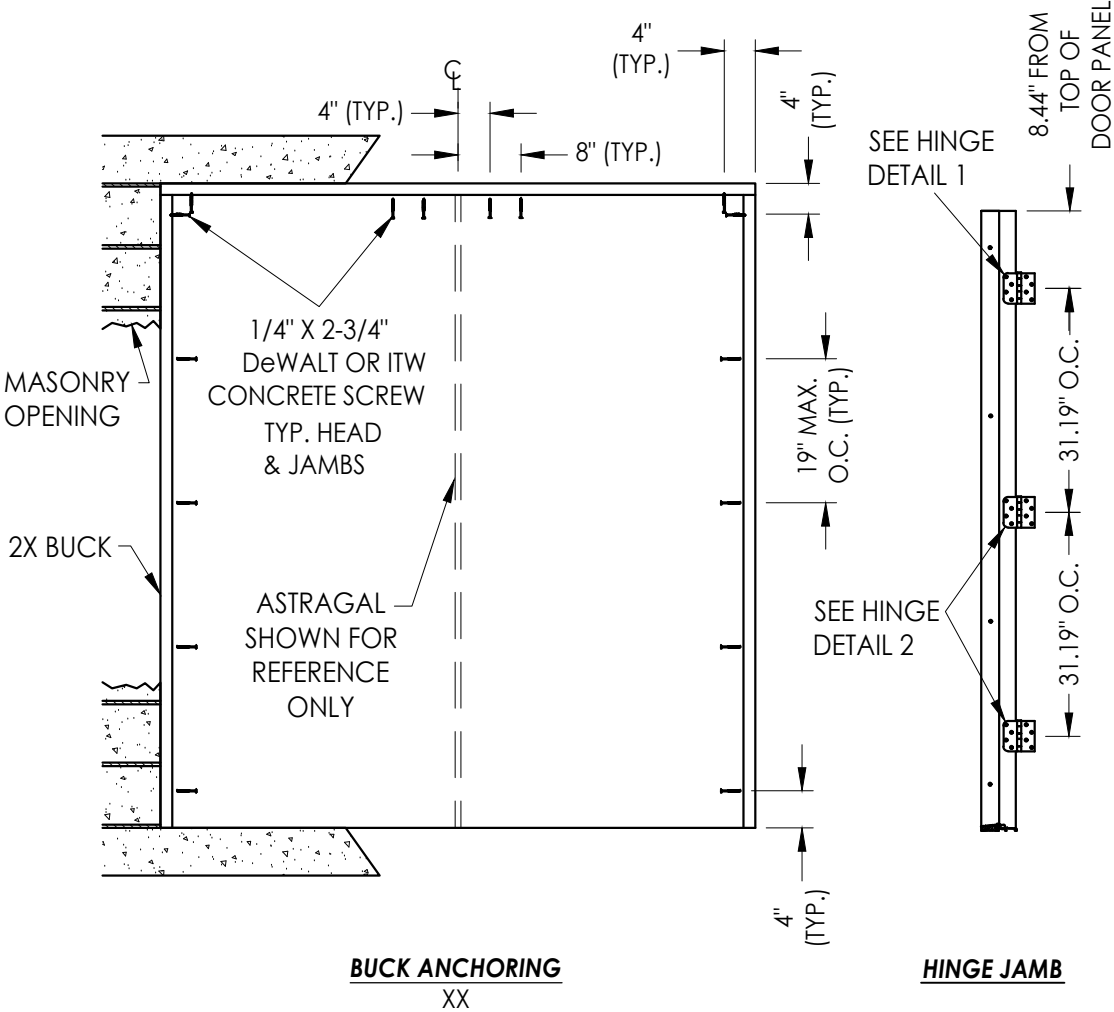
DATE: 8/30/11		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		ENDURA		Lyndon F. Schmidt	
DWG. BY: JK				P.E. No. 43409	
CHK. BY: LFS					
DRAWING NO.: FL-14823.3		PART OR ASSEMBLY:		RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
		HORIZONTAL AND VERTICAL CROSS SECTIONS			
SHEET 4 OF 6					

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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: THRESHOLD DETAILS			
7	4/16/24	ADD MODERN ASTRAGAL PROFILE	LFS				
6	7/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS				
5	8/11/20	UPDATE TO 7TH ED. (2020) FBC	LFS				
4	9/27/17	UPDATE TO 6TH ED. (2017) FBC	LFS				
NO.	DATE		BY				
				REVISIONS			
DATE: 8/30/11							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-14823.3							
SHEET 5 OF 6							

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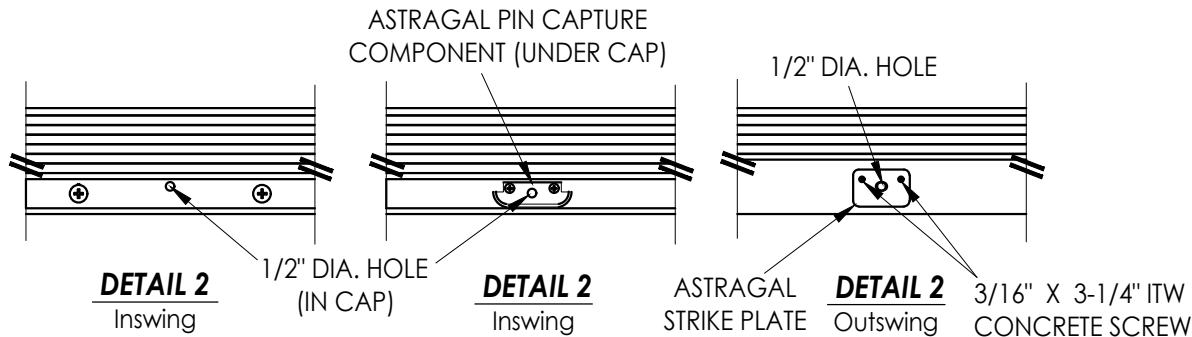
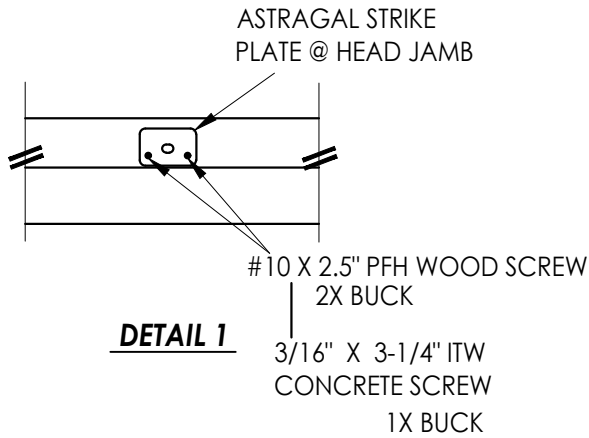
CONCRETE ANCHOR NOTES:

- 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®	3/16"	1-1/4"	3"	1-1/2"
	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:
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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

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING

NO.	DATE	REVISIONS
7	4/16/24	ADD MODERN ASTRAGAL PROFILE
6	7/07/23	UPDATE TO 8TH ED. (2023) FBC
5	8/11/20	UPDATE TO 7TH ED. (2020) FBC
4	9/27/17	UPDATE TO 6TH ED. (2017) FBC
3		
2		
1		

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14823.3

SHEET 6 OF 6