

Ultimate Flip Lever Astragal

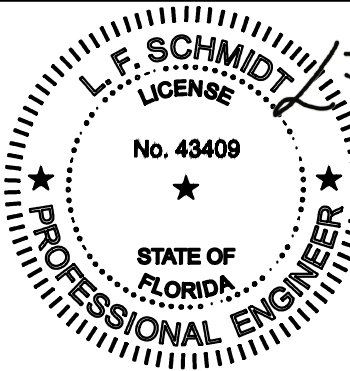
INSWING / OUTSWING

"NON-IMPACT"

GENERAL NOTES

- 1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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



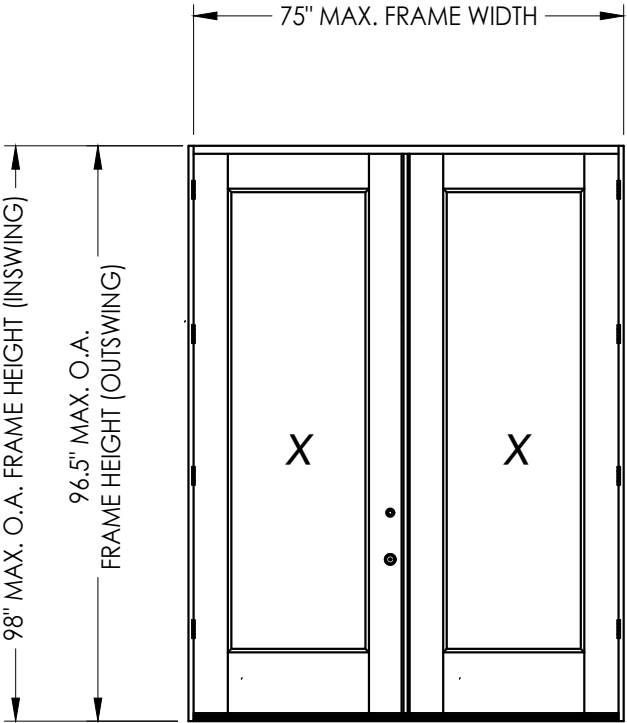
Digitally signed by Lyndon F Schmidt
Date: 2026.07.19 11:41:07 -04'00'

This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal.
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THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



Ultimate Flip Lever Astragal



ULTIMATE FLIP LEVER ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO Insert Glazed (FIBERGLASS)	INSWING	75" X 98"	+40.0	-45.0
	OUTSWING	75" X 96.5"	+40.0	-40.0

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

ENDURA

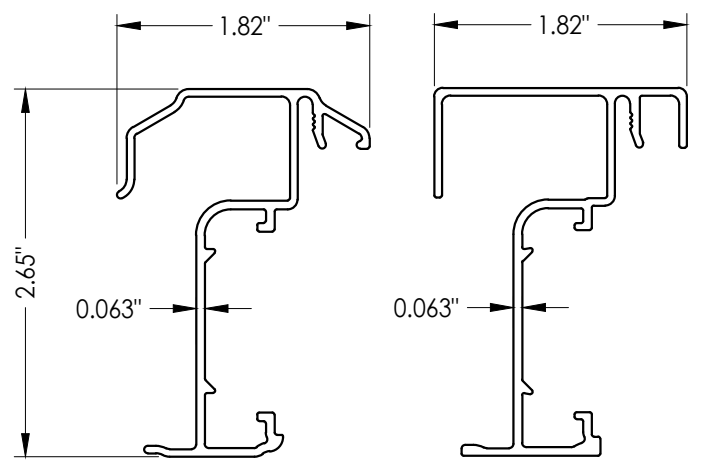
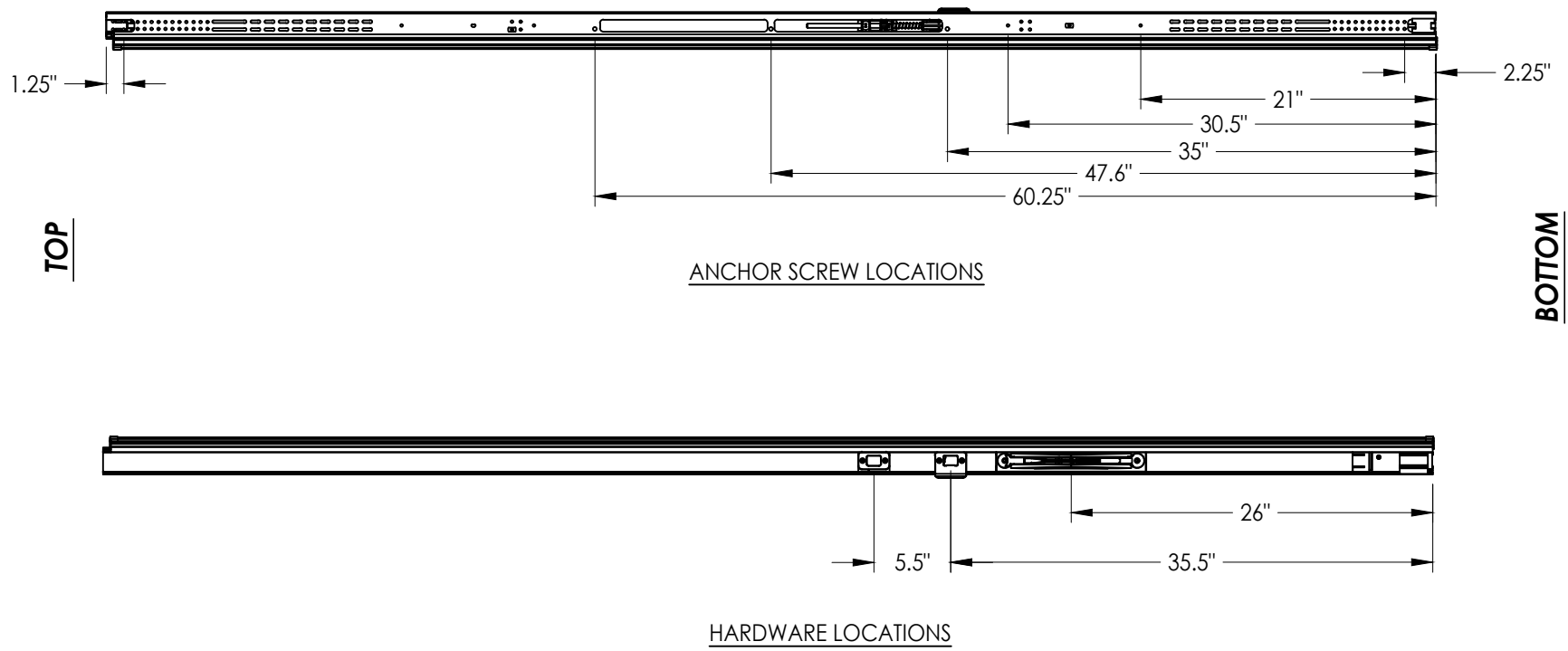
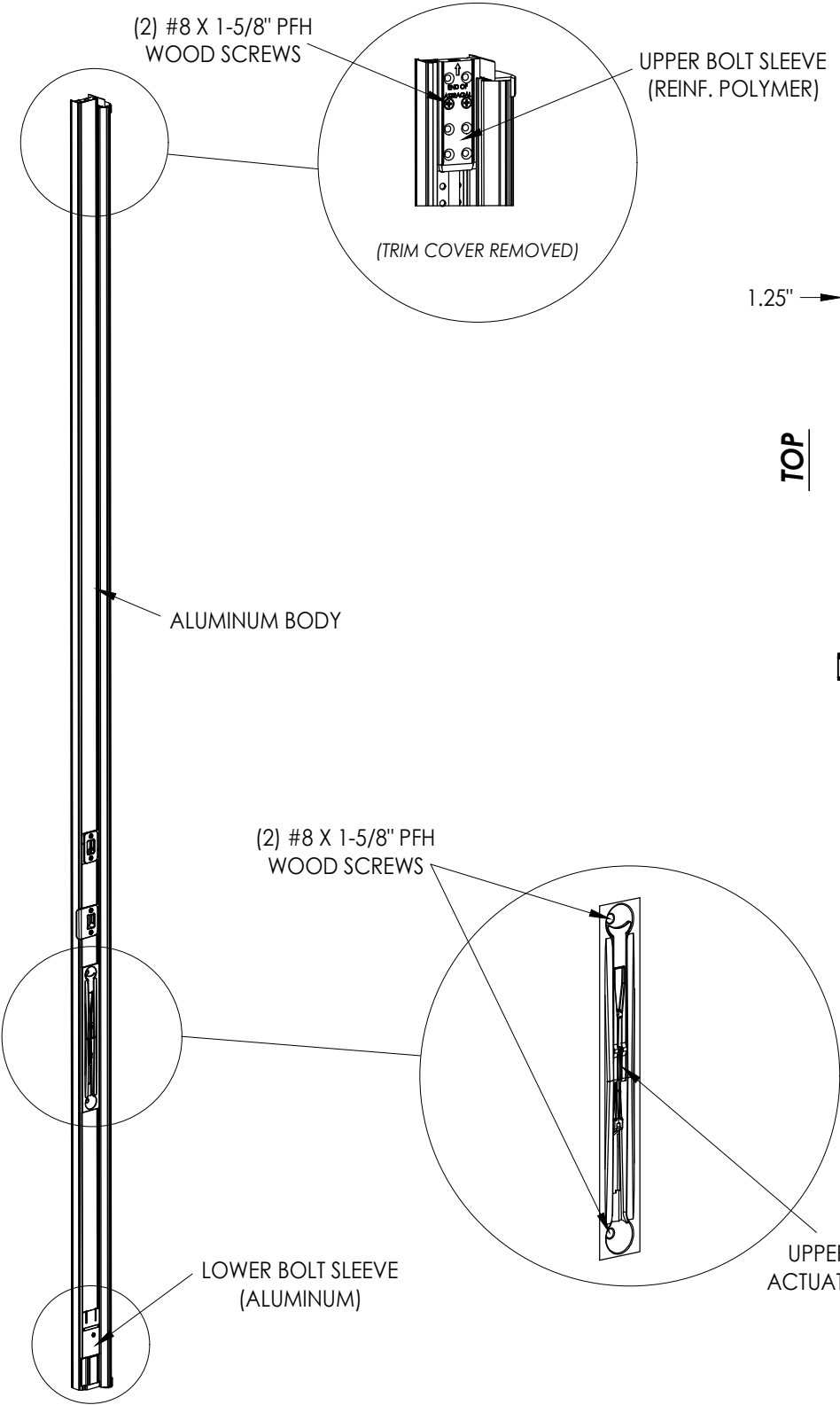
Part or Assembly:
TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

REVISIONS

DATE: 8/30/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14823.11
SHEET 1 OF 6

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

G:\ENDURA\FL-14823 R14\FL-14823.11-13,16-18.dwg



ULTIMATE FLIP LEVER ASTRAGAL

ASTRAGAL SECTIONS

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	
PRODUCT: ENDURA		PART OR ASSEMBLY: ASTRAGAL DETAILS	
8 7/03/26 UPDATE TO 9TH ED. (2026) FBC LFS		REVISIONS	
7 4/16/24 ADD MODERN ASTRAGAL PROFILE LFS		NO. DATE	
6 7/07/23 UPDATE TO 8TH ED. (2023) FBC LFS		BY	
DATE: 8/30/11			
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CHK. BY: LFS			
DRAWING NO.: FL-14823.11			
SHEET 2 OF 6			

35.75" MAX.
PANEL WIDTH

26" MAX
D.L.O. WIDTH

95.25" MAX. DOOR
PANEL HEIGHT

78.0" MAX
D.L.O. HEIGHT

2
3

1
3

X

PLASTPRO
Insert Glazed
(fiberglass)

STILE
(VL)

TOP RAIL
(COMP.)

1.75"

1.2"

FIBERGLASS SKIN
(0.075" MIN.)

GI

INTERIOR

EXTERIOR

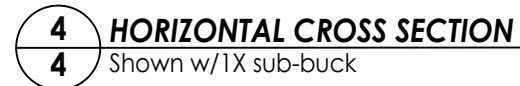
FOAM CORE
(POLYURETHANE)

BOTTOM RAIL
(COMP.)

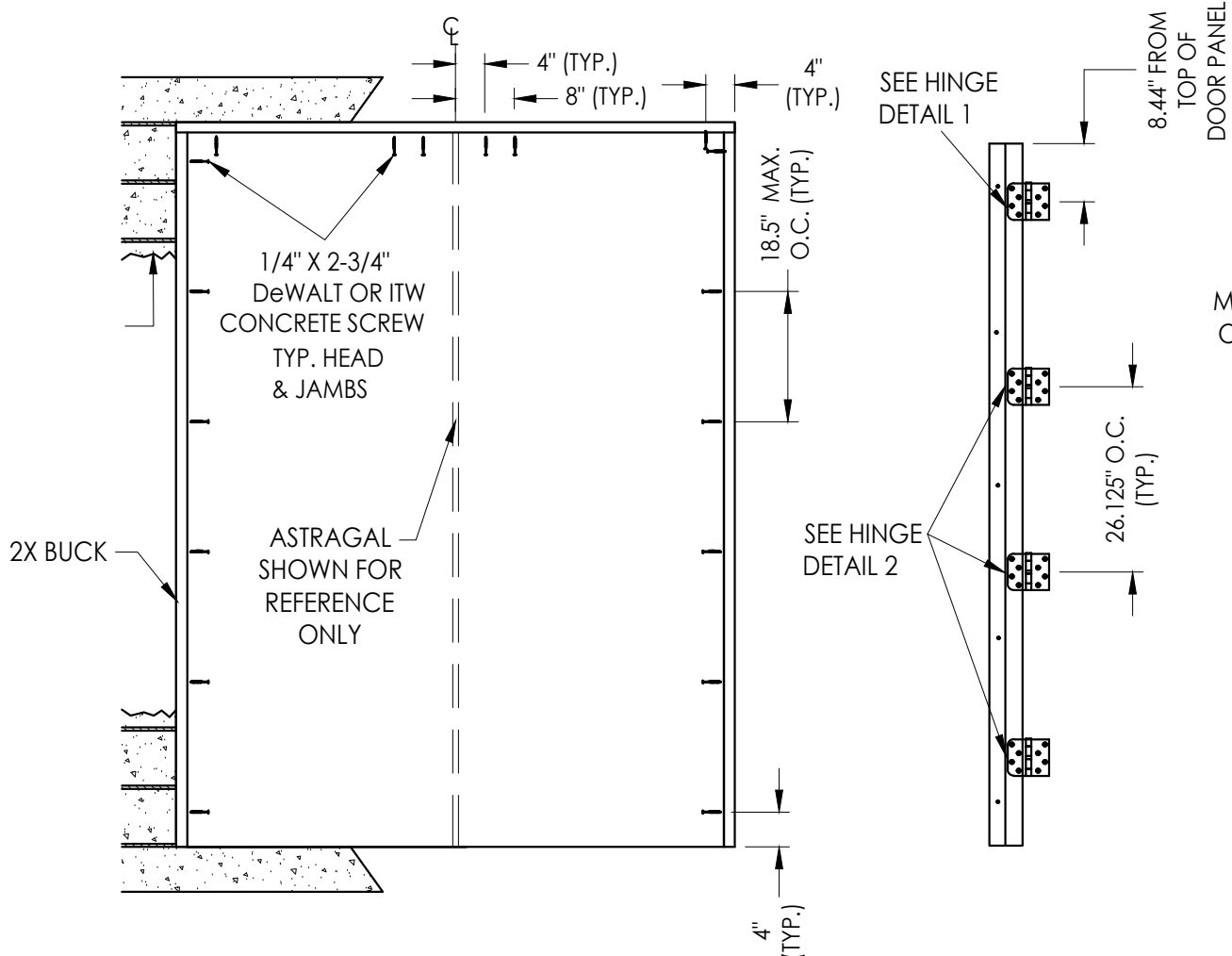
1.2"

2 VERTICAL CROSS SECTION
3

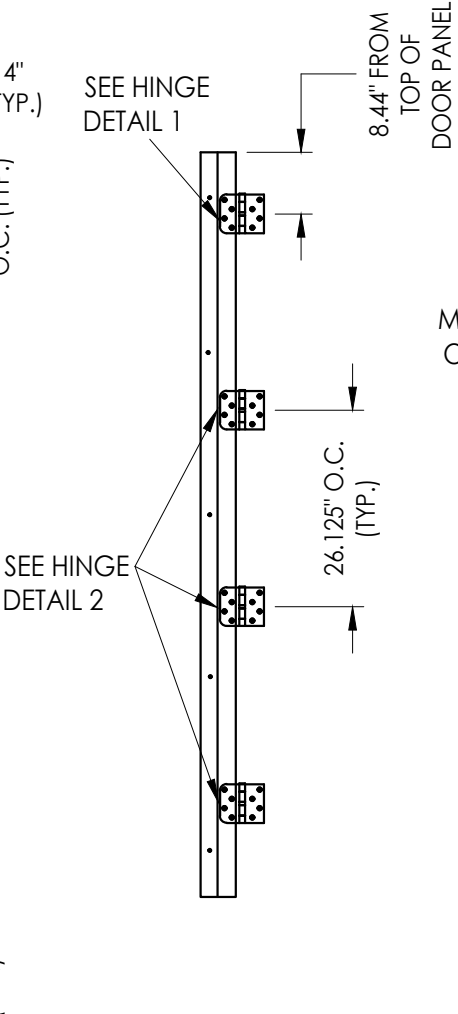
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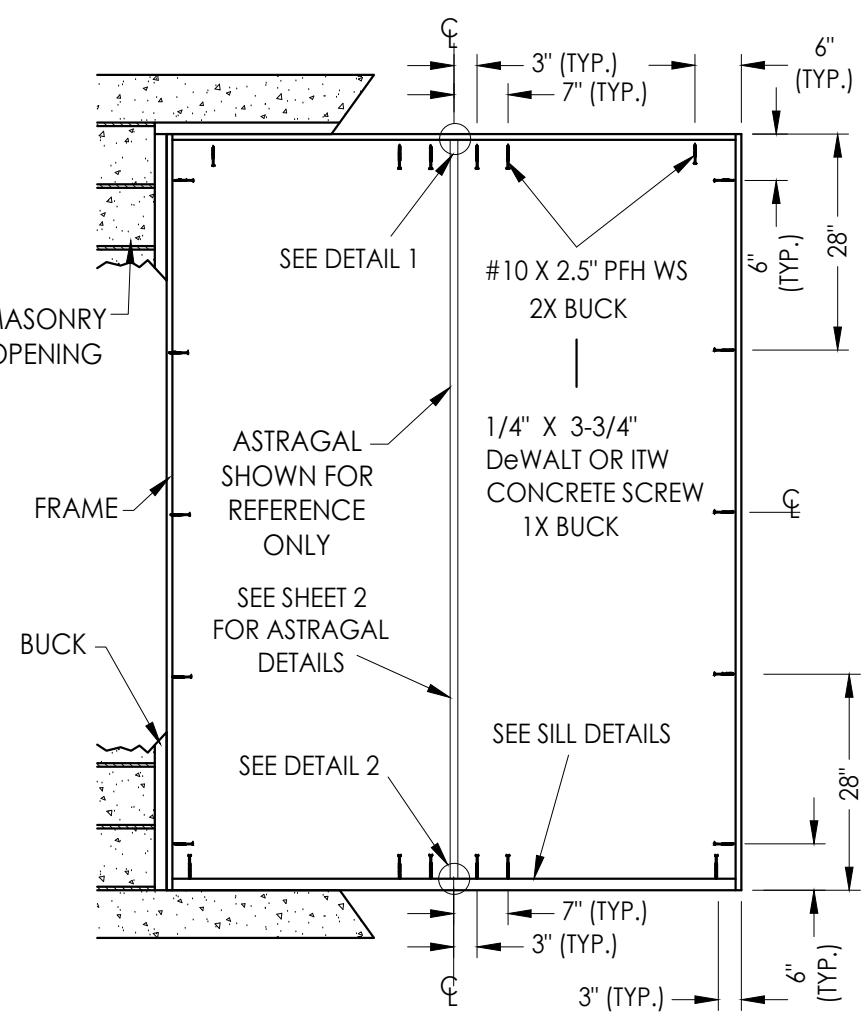
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SHEET 4 OF 6					



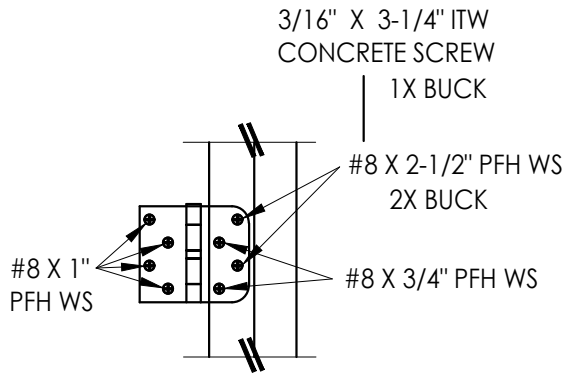
BUCK ANCHORING



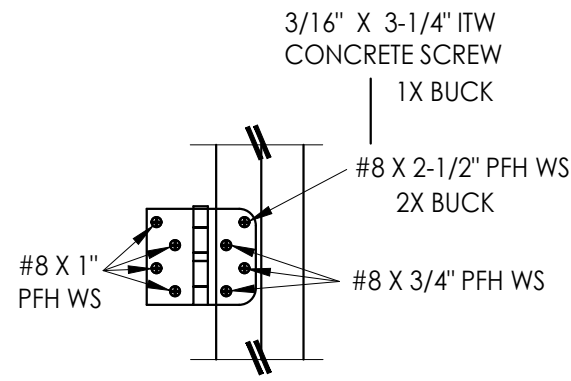
HINGE JAMB



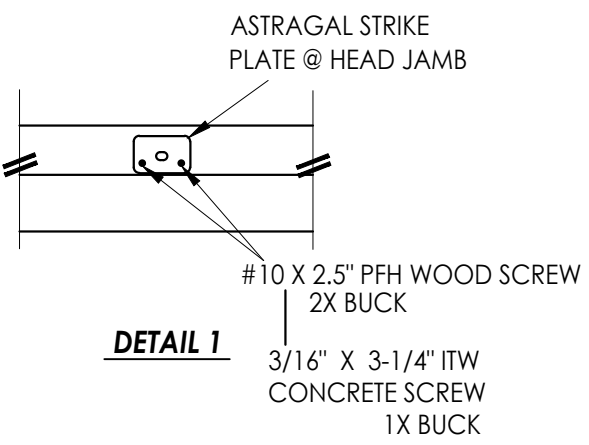
FRAME ANCHORING
Masonry construction



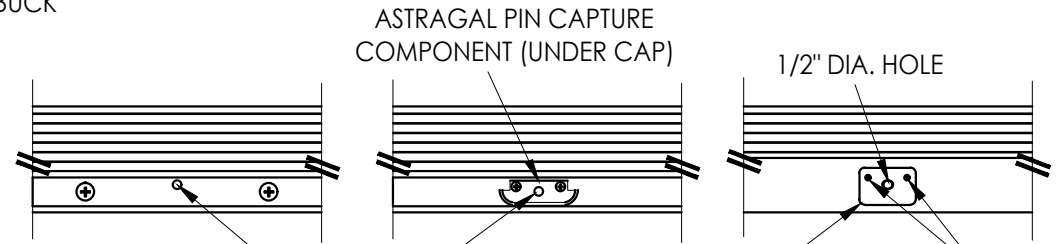
HINGE DETAIL 1



HINGE DETAIL 2



DETAIL 1



DETAIL 2
Inswing

DETAIL 2
Inswing

DETAIL 2
Outswing

CORROSION RESISTANCE - SALTWATER ENVIRONMENT
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

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®	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:
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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