



Glazed Fiberglass Door

"NON-IMPACT"
INSWING / OUTSWING

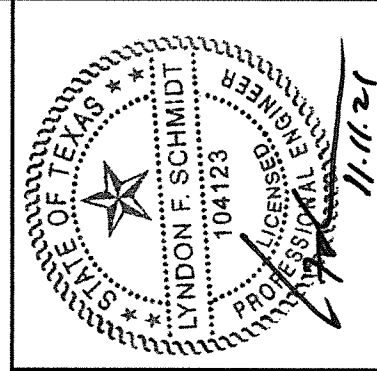
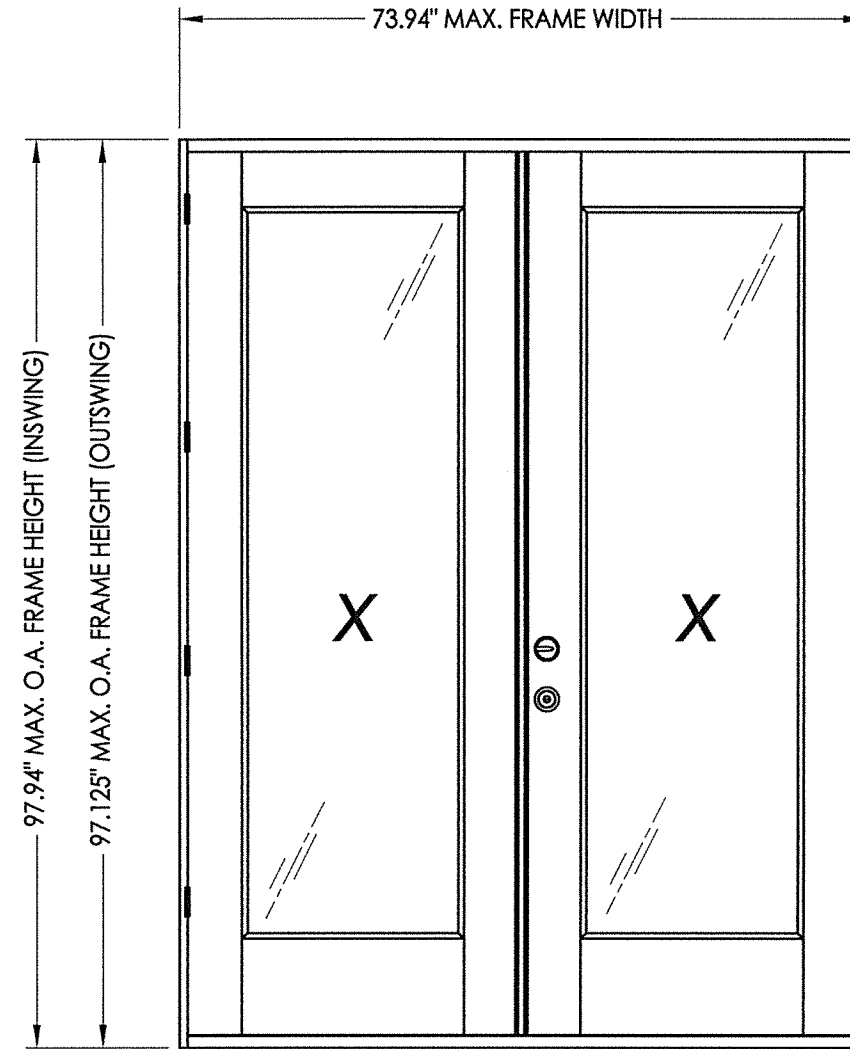
TDI DR-611

EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing. Conditions not covered by this drawing are subject to further engineering analysis.

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5	Door panel details (lip lite insert glazing)
6	Horizontal cross sections
7	Vertical cross sections
8	Frame anchoring



Documents Prepared By: Lyndon F. Schmidt, P.E.
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

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

CONFIG.	GLAZING	MODEL	DESIGN PRESSURE (PSF) ULTIMATE HURRICANE ASTRAGAL		DESIGN PRESSURE (PSF) ULTIMATE MULTIPOINT ASTRAGAL		DESIGN PRESSURE (PSF) ULTIMATE FLIP LEVER ASTRAGAL	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	LIP LITE INSERT	INSWING	+40.0	-45.0	+35.0	-35.0	+40.0	-40.0
XX	LIP LITE INSERT	OUTSWING	+45.0	-45.0	+35.0	-35.0	+40.0	-40.0

NO.	DATE	REVISIONS
5	11/10/21	UPDATE TO 2018 IBC/IRC CODE
4	11/7/18	REVISED TO INSERT GLAZED ONLY
3	11/02/16	ADDED THRESHOLDS
2	5/05/15	ADD NEW ASTRAGAL PIN CAPTURE
1	1/07/14	ADDED ARTICULATING SILL

DATE: 8/09/12

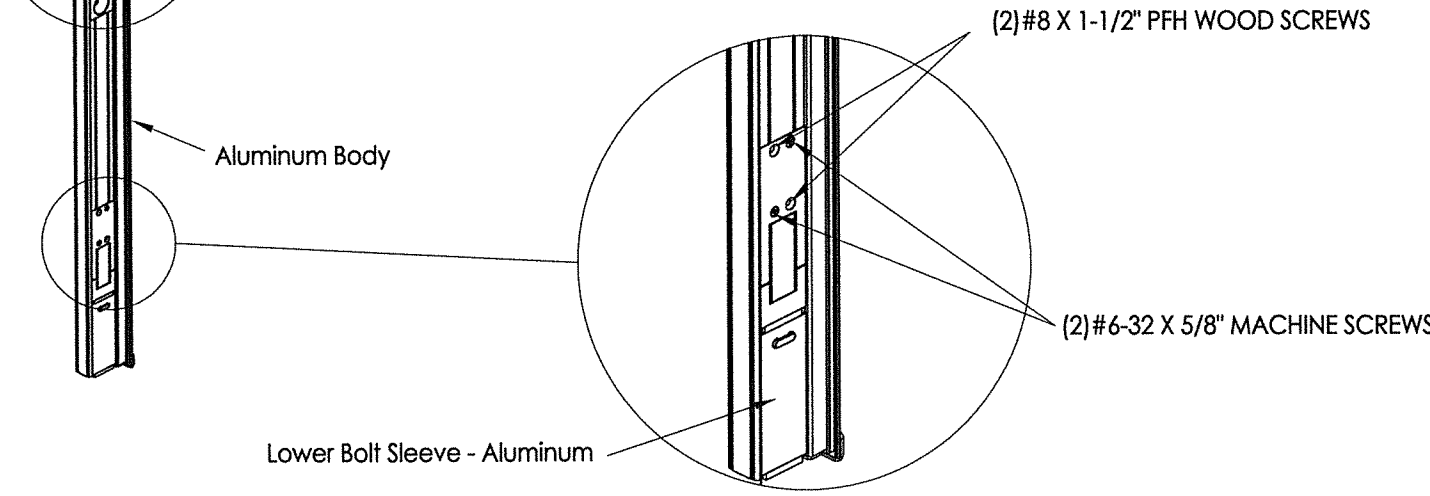
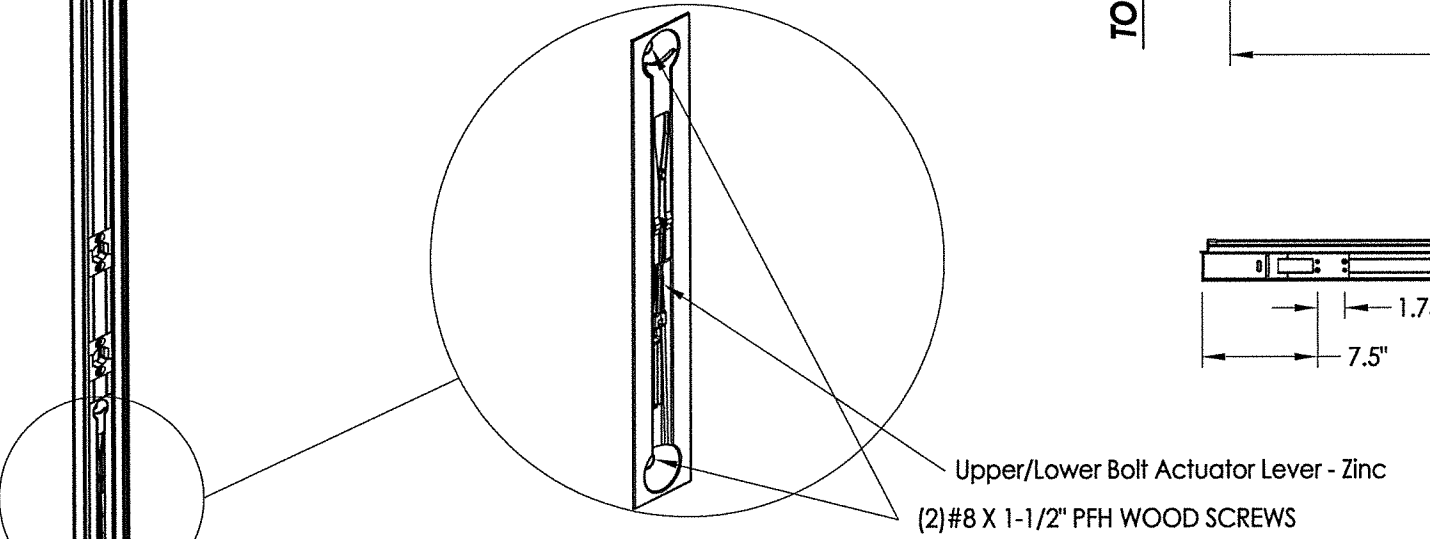
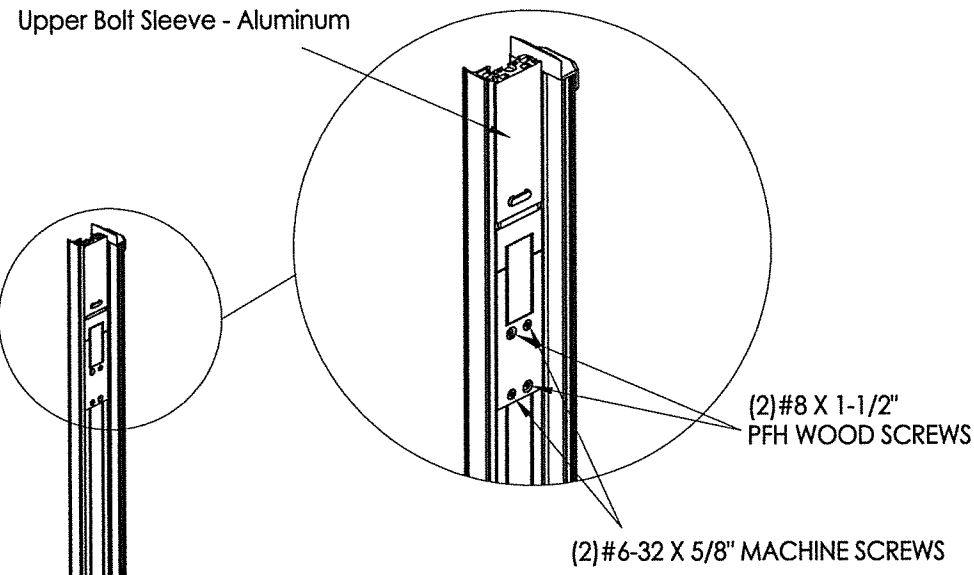
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DWG. BY: JK

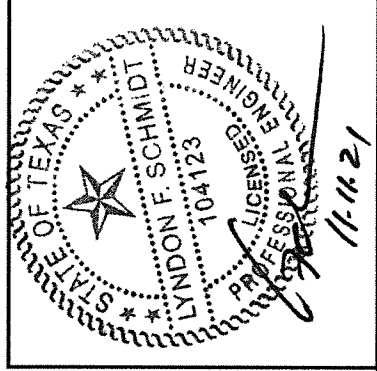
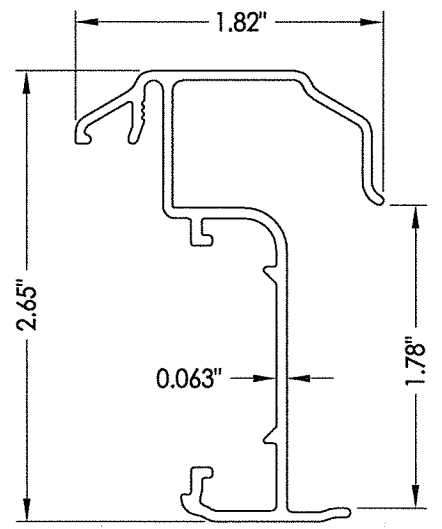
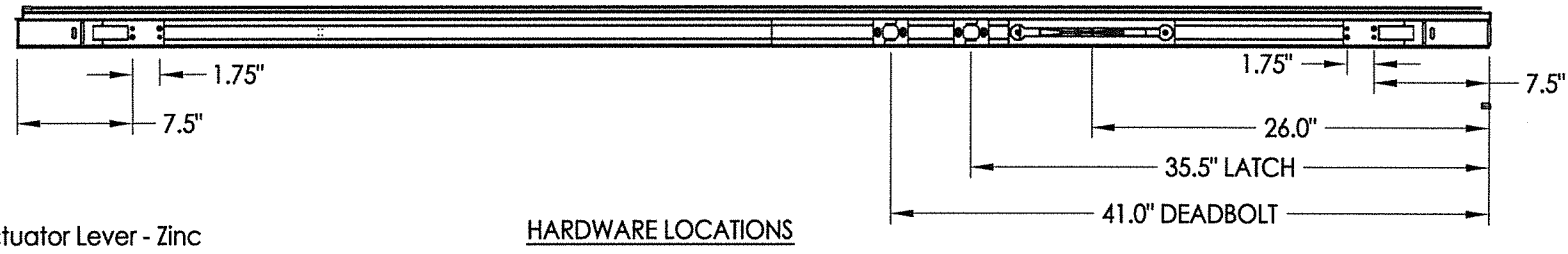
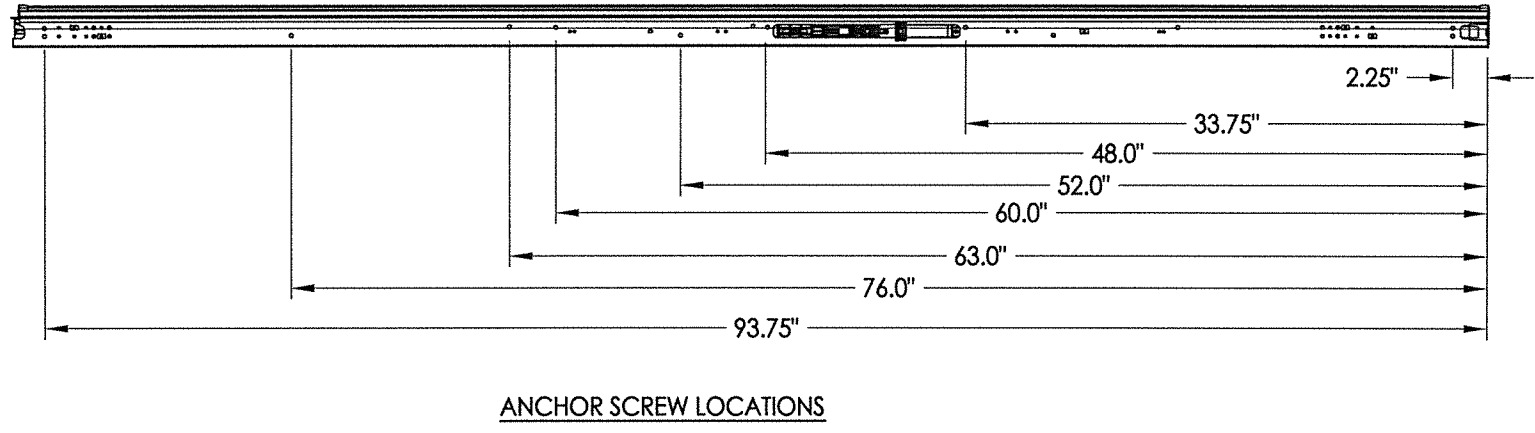
CHK. BY: LFS

DRAWING NO.: TX-4213

SHEET 1 OF 8



ULTIMATE FLIP LEVER ASTRAGAL



Documents Prepared By: Lyndon F. Schmidt, P.E.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY: ASTRAGAL DETAILS (ULTIMATE FLIP LEVER)

NO.	DATE	REVISIONS
5	11/10/21	UPDATE TO 2018 IBC/IRC CODE
4	11/7/18	REVISED TO INSERT GLAZED ONLY
3	11/02/16	ADDED THRESHOLDS
2	5/05/15	ADD NEW ASTRAGAL PIN CAPTURE
1	1/07/14	ADDED ARTICULATING SILL

DATE: 8/09/12

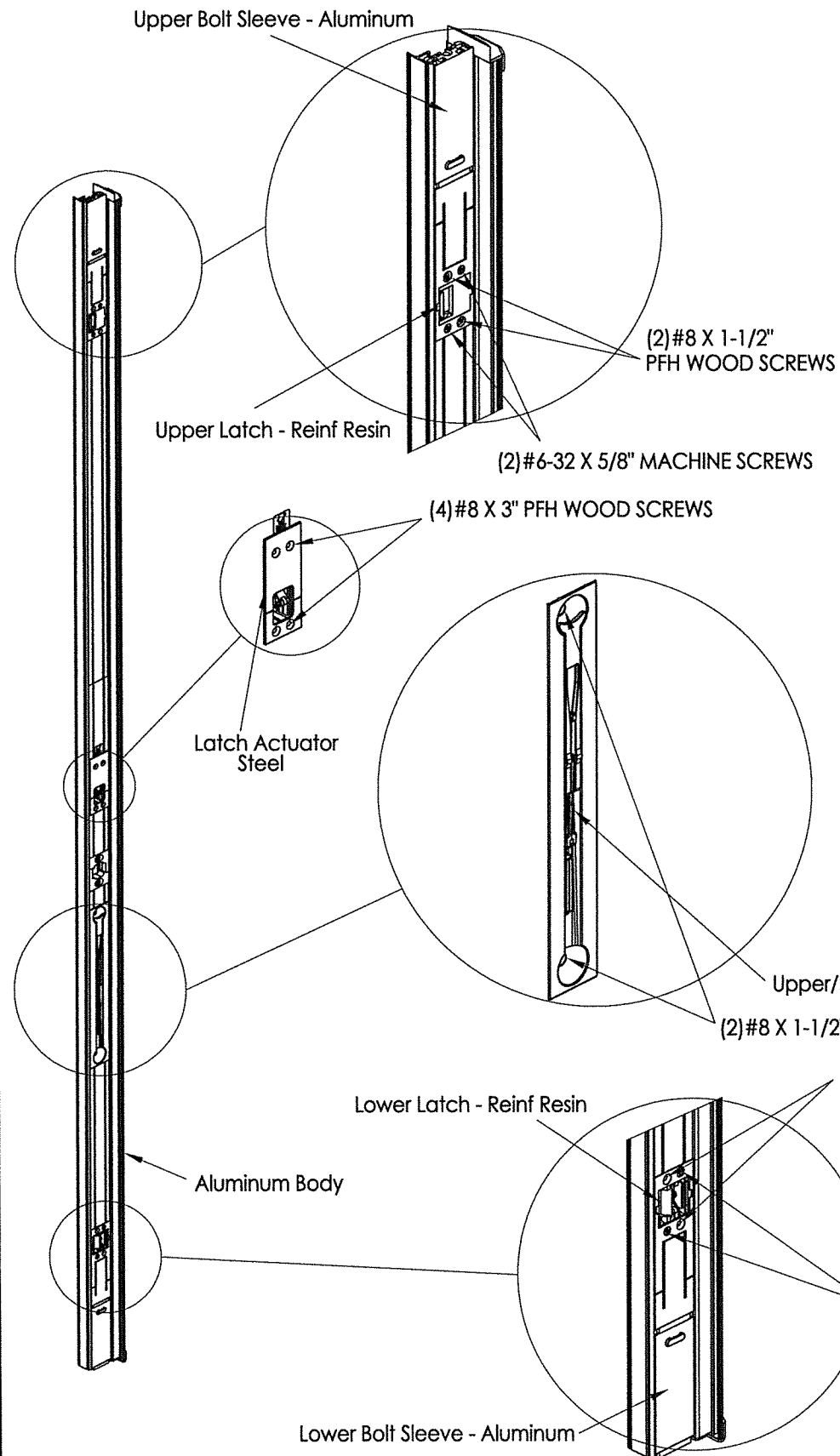
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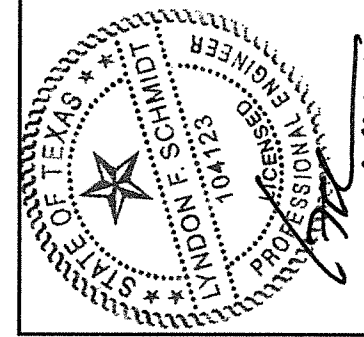
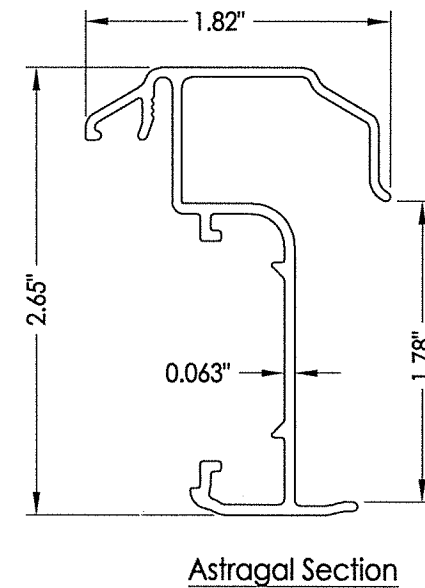
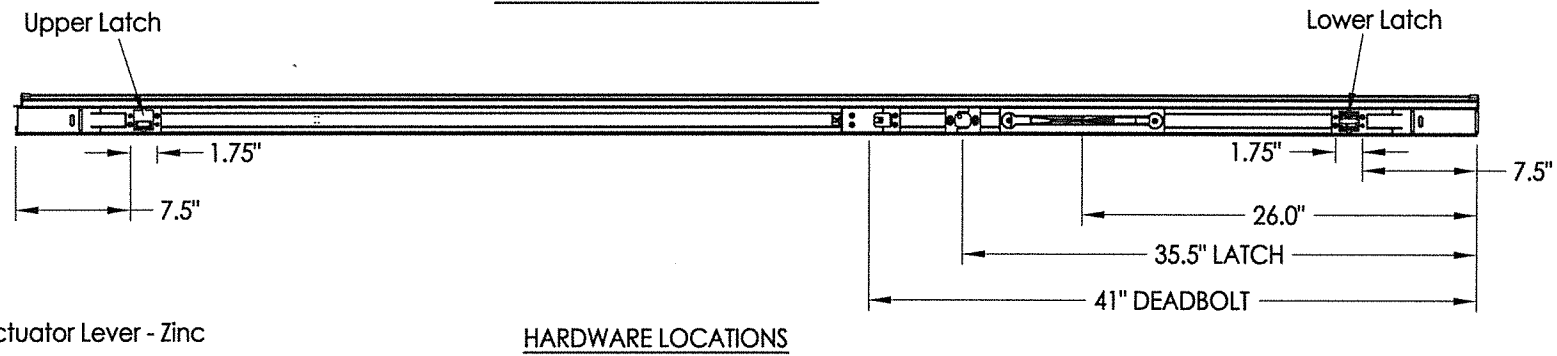
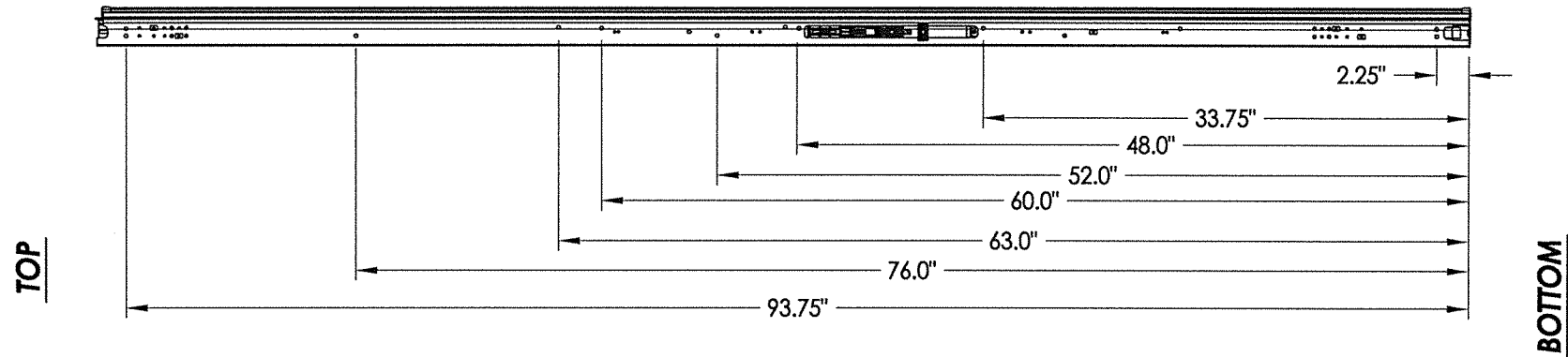
CHK. BY: LFS

DRAWING NO.: TX-4213

SHEET 2 OF 8



ULTIMATE MULTI-POINT ASTRAGAL



Documents Prepared By: Lyndon F. Schmidt, P.E.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY: ASTRAGAL DETAILS (ULTIMATE MULTI-POINT)

NO.	DATE	REVISIONS
5	11/10/21	UPDATE TO 2018 IBC/IRC CODE
4	11/7/18	REVISED TO INSERT GLAZED ONLY
3	11/02/16	ADDED THRESHOLDS
2	5/05/15	ADD NEW ASTRAGAL PIN CAPTURE
1	1/07/14	ADDED ARTICULATING SILL

DATE: 8/09/12

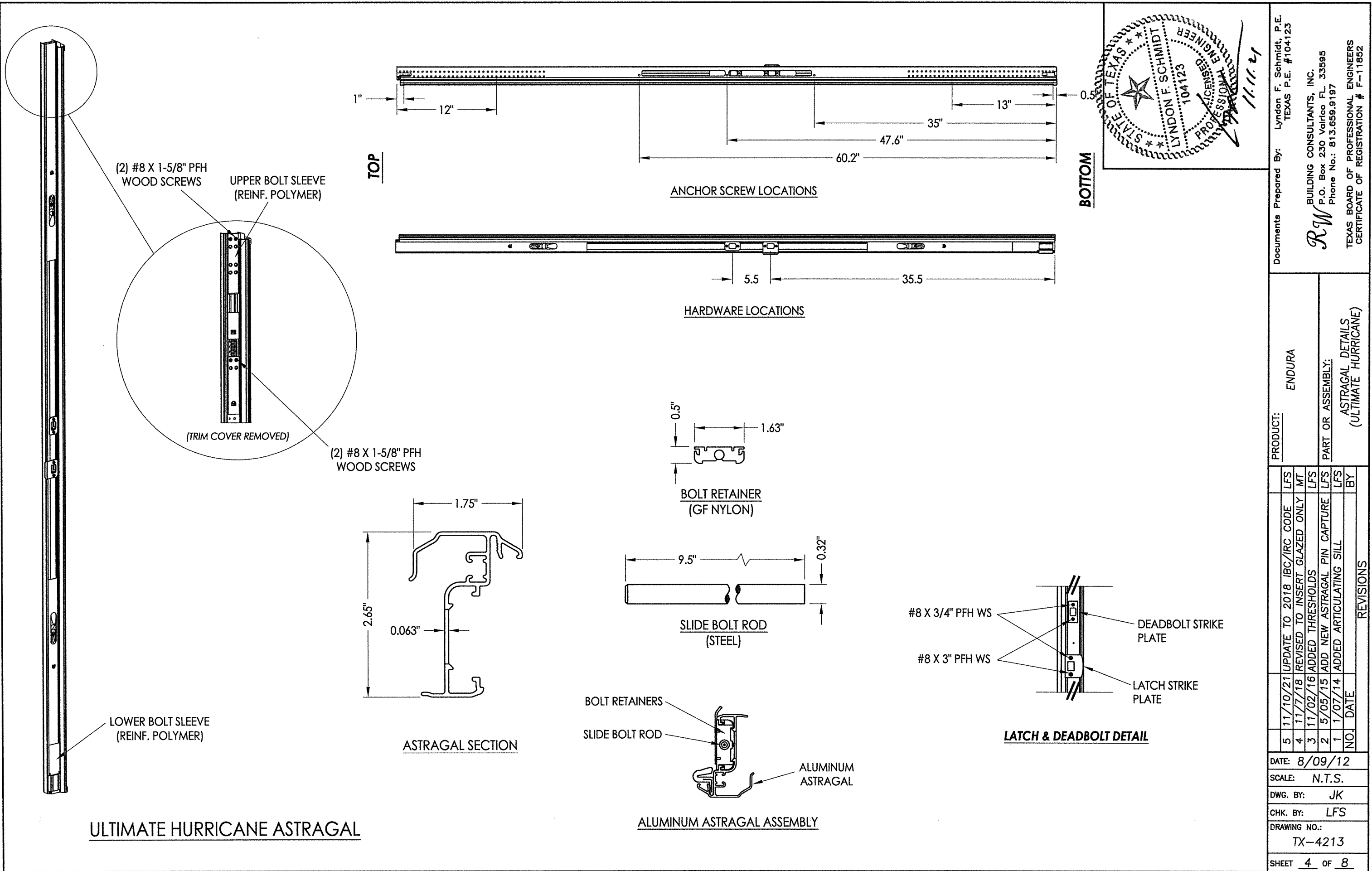
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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4213

SHEET 3 OF 8



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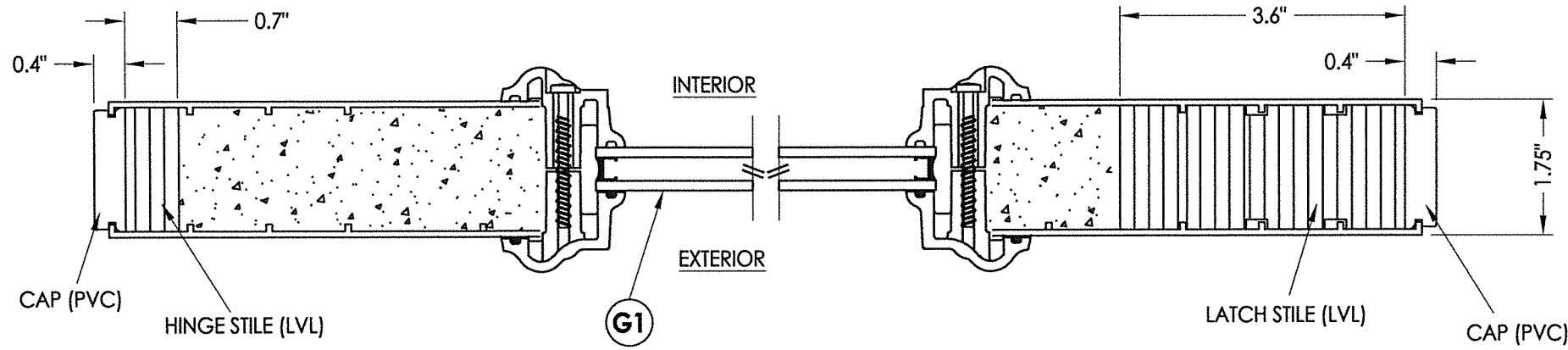
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Vairico FL 33595
 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA
 PART OR ASSEMBLY: ASTRAGAL DETAILS (ULTIMATE HURRICANE)

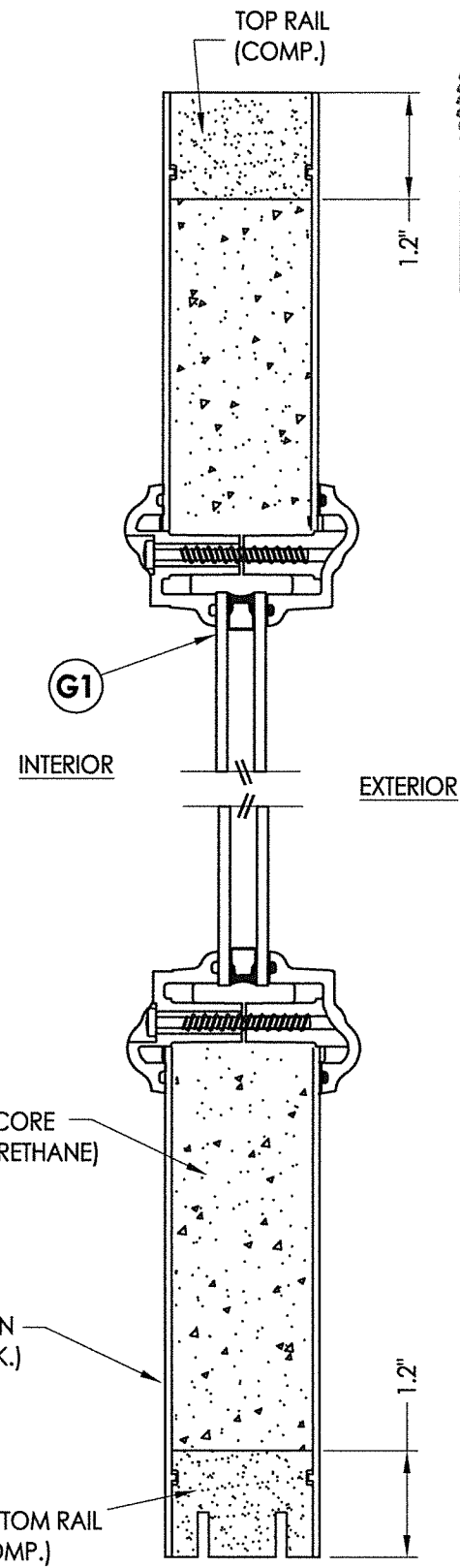
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5	11/10/21	UPDATE TO 2018 IBC/IRC CODE
4	11/7/18	REVISED TO INSERT GLAZED ONLY
3	11/02/16	ADDED THRESHOLDS
2	5/05/15	ADD NEW ASTRAGAL PIN CAPTURE
1	1/07/14	ADDED ARTICULATING SILL

DATE: 8/09/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4213
 SHEET 4 OF 8

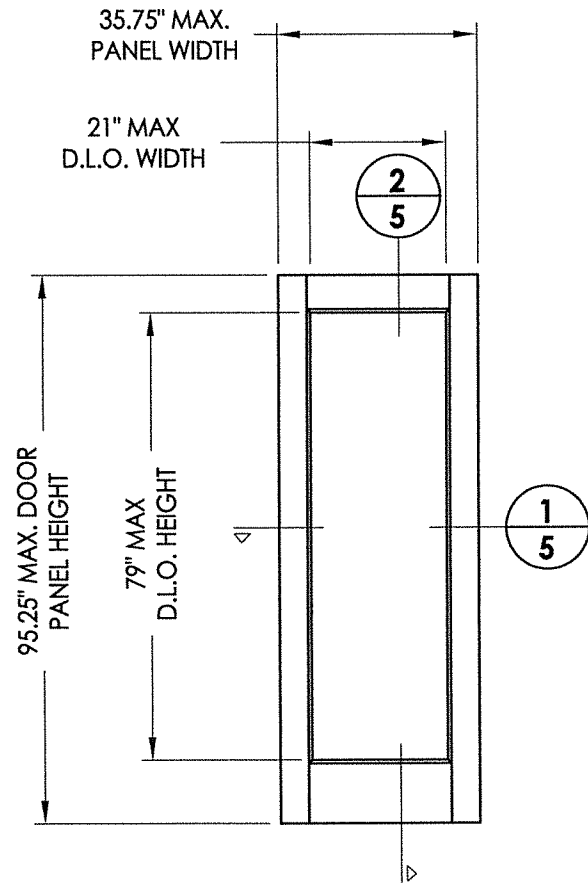
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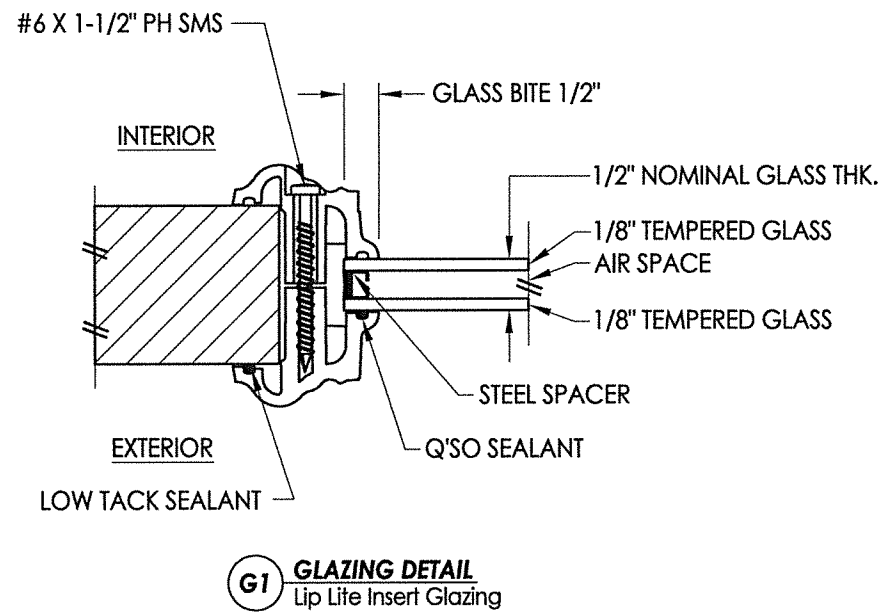
1
5 HORIZONTAL CROSS SECTION



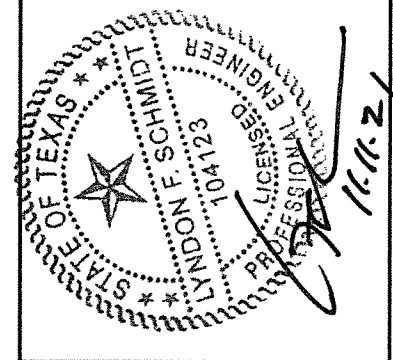
2
5 VERTICAL CROSS SECTION



PLASTPRO
Insert Glazed
(fiberglass)



G1 GLAZING DETAIL
Lip Lite Insert Glazing



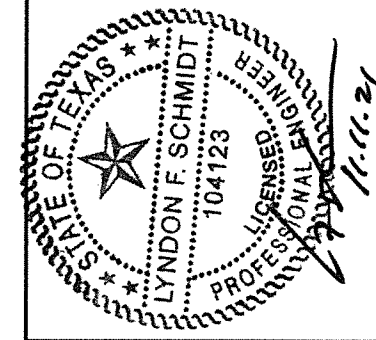
Documents Prepared By: Lyndon F. Schmidt, P.E.
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RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA
PART OR ASSEMBLY: DOOR PANEL DETAILS (LIP LITE INSERT GLAZING)

NO.	DATE	DESCRIPTION	BY
5	11/10/21	UPDATE TO 2018 IBC/IRC CODE	LFS
4	11/7/18	REVISED TO INSERT GLAZED ONLY	MT
3	11/02/16	ADDED THRESHOLDS	LFS
2	5/05/15	ADD NEW ASTRAGAL PIN CAPTURE	LFS
1	1/07/14	ADDED ARTICULATING SILL	LFS

DATE: 8/09/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4213
SHEET 5 OF 8

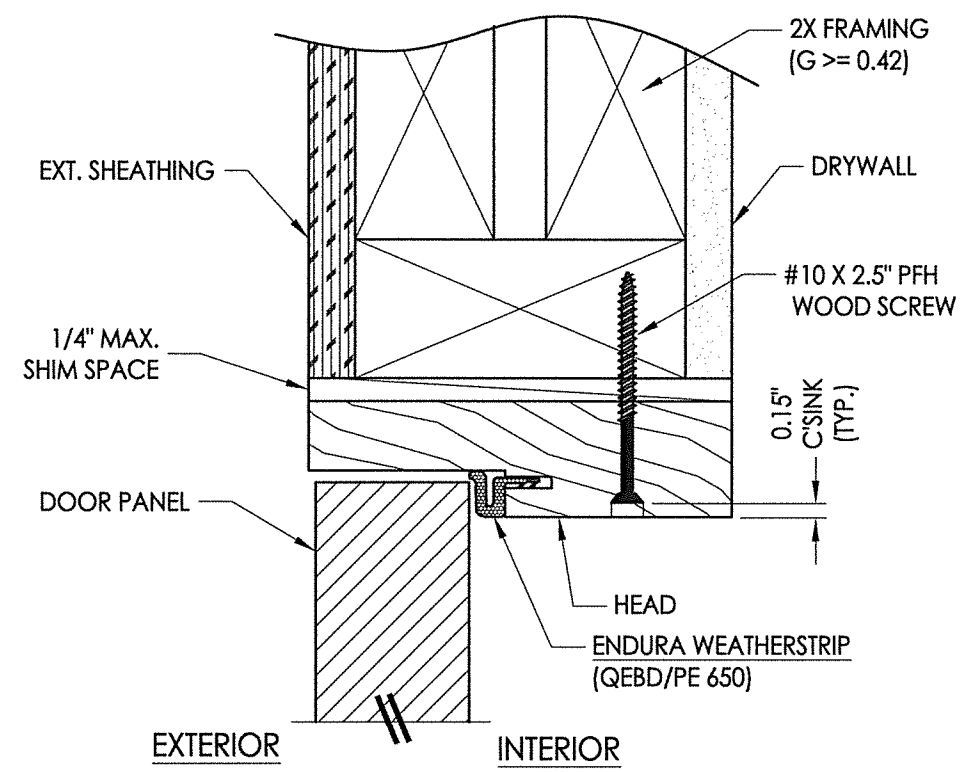
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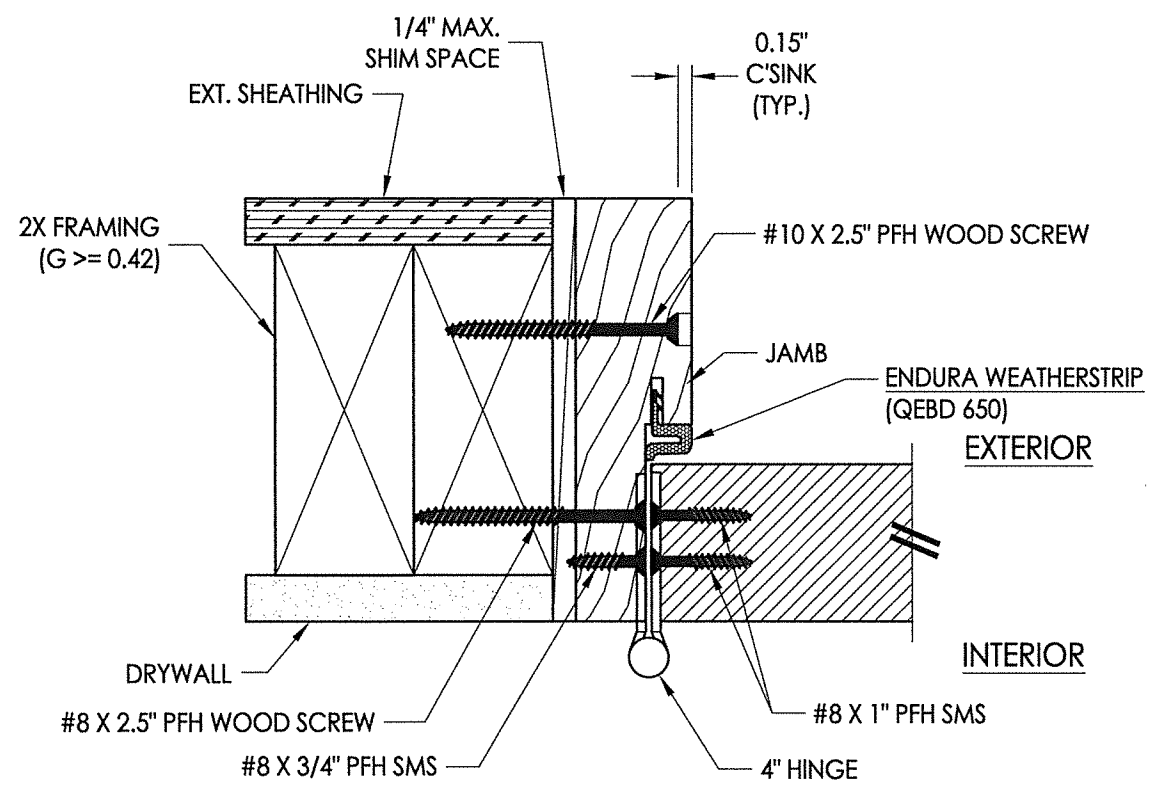
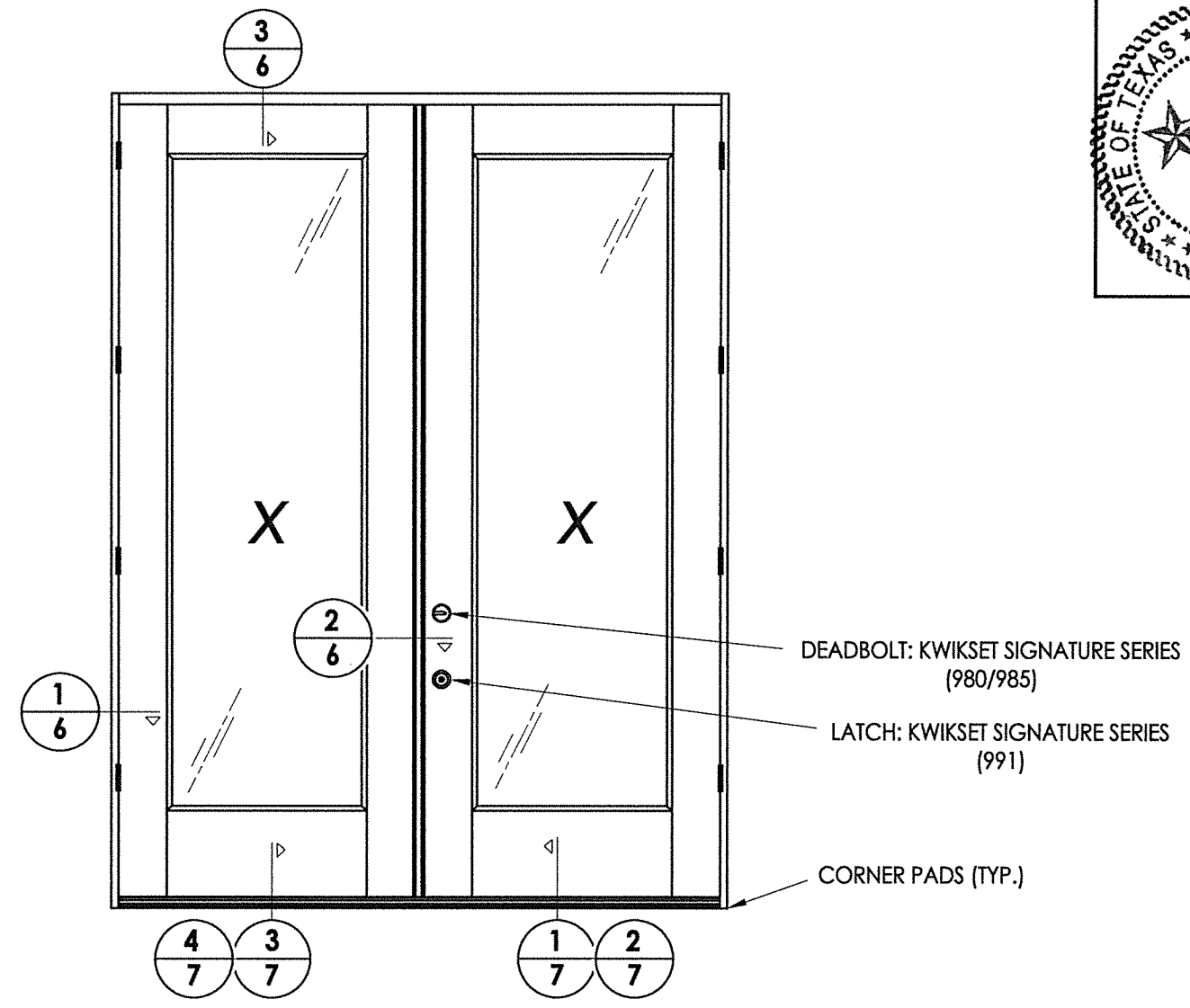
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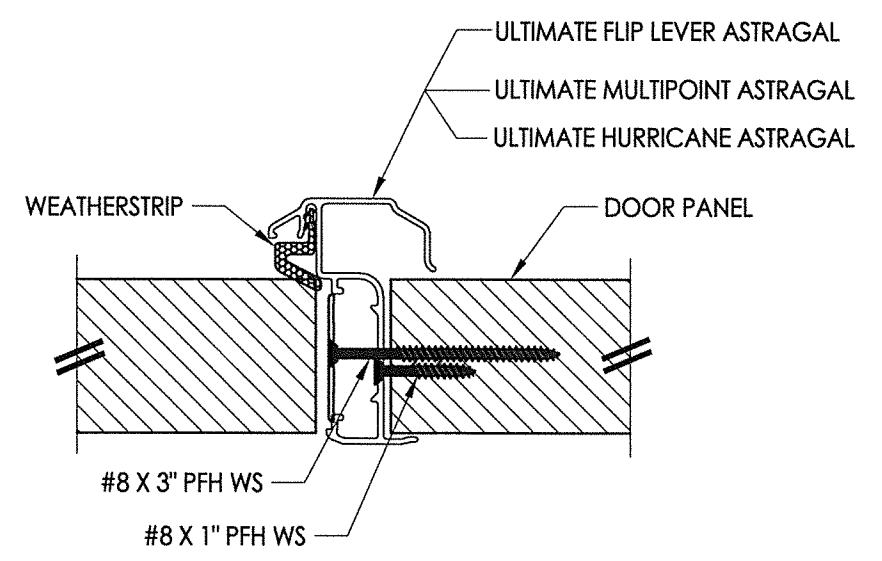
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CERTIFICATE OF REGISTRATION # F-11852



3 VERTICAL CROSS SECTION
6 Outswing shown - inswing also approved



1 HORIZONTAL CROSS SECTION
6 Inswing shown - Outswing also approved



2 HORIZONTAL CROSS SECTION
6

PRODUCT: ENDURA

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

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5	11/10/21	UPDATE TO 2018 IBC/IRC CODE
4	11/7/18	REVISED TO INSERT GLAZED ONLY
3	11/02/16	ADDED THRESHOLDS
2	5/05/15	ADD NEW ASTRAGAL PIN CAPTURE
1	1/07/14	ADDED ARTICULATING SILL
		LFS
		BY

DATE: 8/09/12

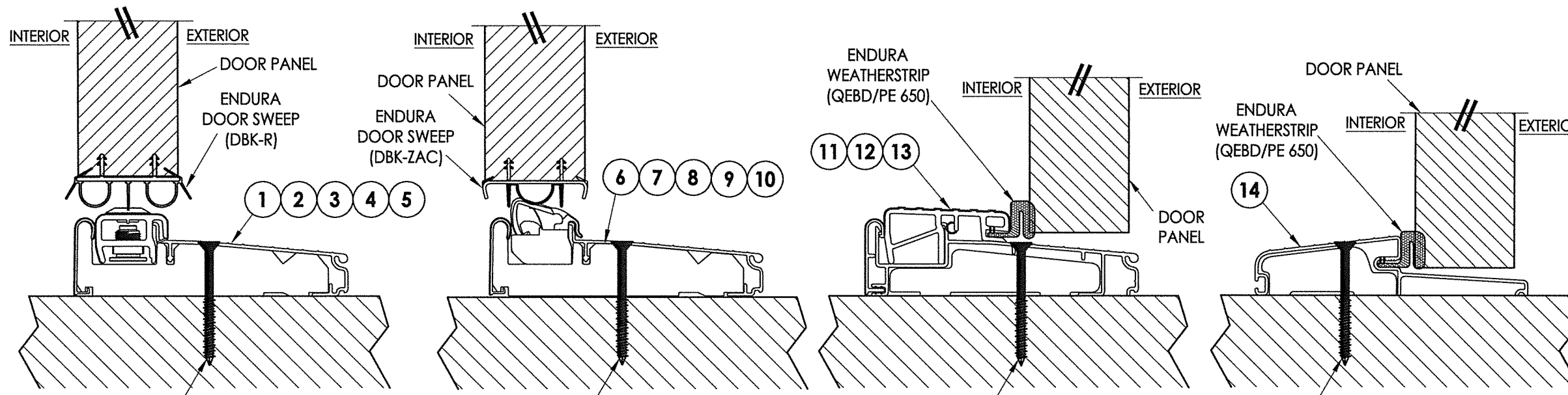
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4213

SHEET 6 OF 8



#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW

1 **VERTICAL CROSS SECTION**
7 Inswing Adjustable Threshold

#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW

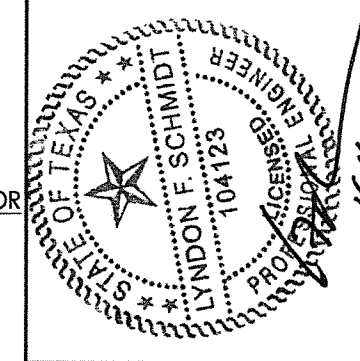
2 **VERTICAL CROSS SECTION**
7 Inswing Articulating Threshold
w/ Pin Capture

#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW

3 **VERTICAL CROSS SECTION**
7 Outswing Bump Threshold

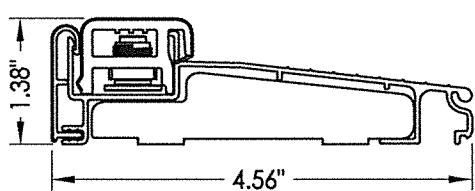
#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW

4 **VERTICAL CROSS SECTION**
7 Outswing Bump Threshold

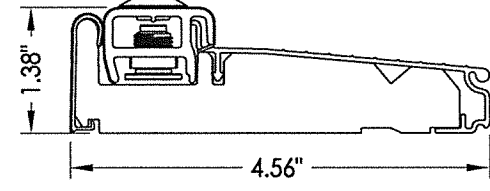


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

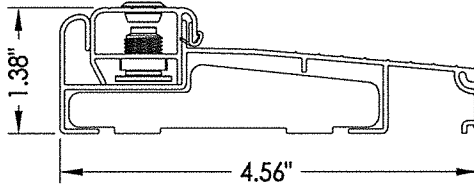
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairoco FL, 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852



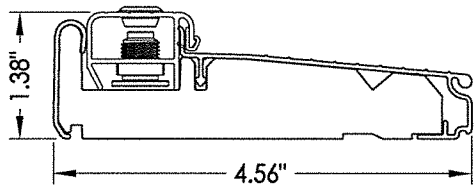
1 **INSWING ADJUSTABLE THRESHOLD**
ZAIL4565



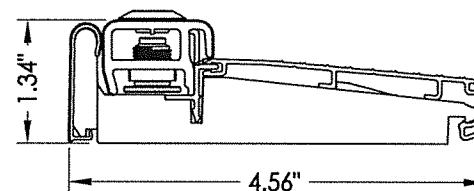
2 **INSWING ADJUSTABLE THRESHOLD**
ZAI4565FN



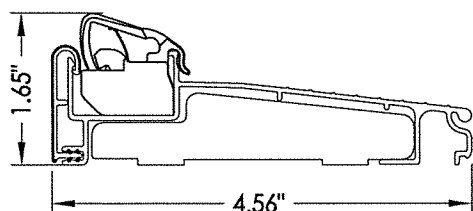
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ZAILAA4565



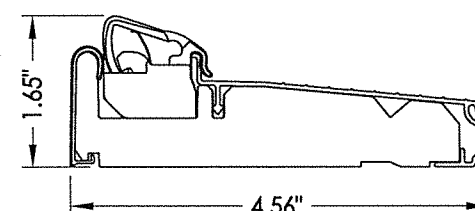
4 **INSWING ADJUSTABLE THRESHOLD**
ZIAAA4565FN



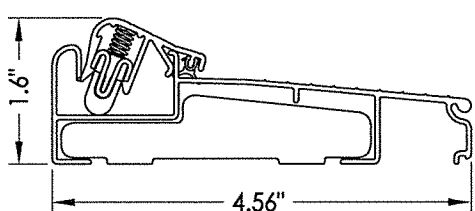
5 **INSWING ADJUSTABLE THRESHOLD**
ZAI4565RDS
MAX. DESIGN PRESSURE = ±40 PSF



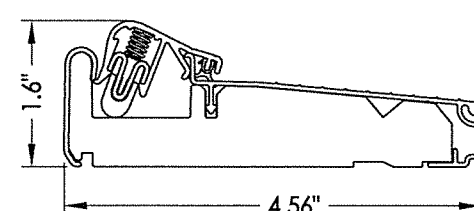
6 **INSWING ARTICULATING THRESHOLD**
ZACL4565



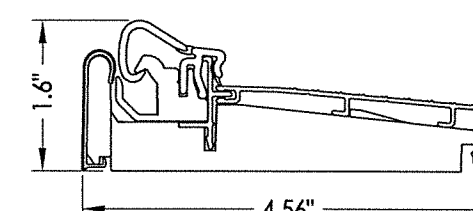
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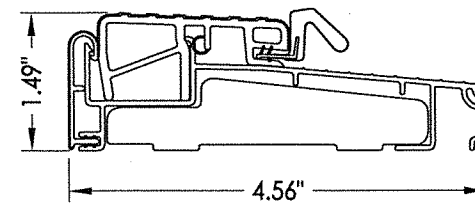
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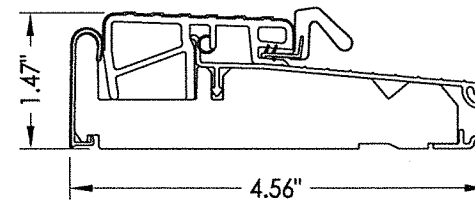
9 **INSWING ARTICULATING THRESHOLD**
ZACAA4565FN



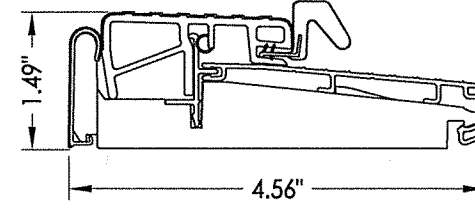
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ZAC4565RDS
MAX. DESIGN PRESSURE = ±35 PSF



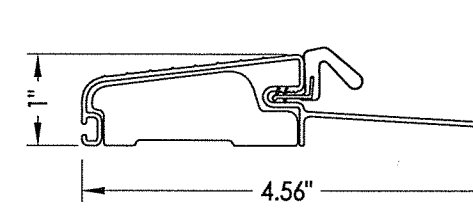
11 **OUTSWING THRESHOLD**
ZOBL4565



12 **OUTSWING THRESHOLD**
ZOB4565FN

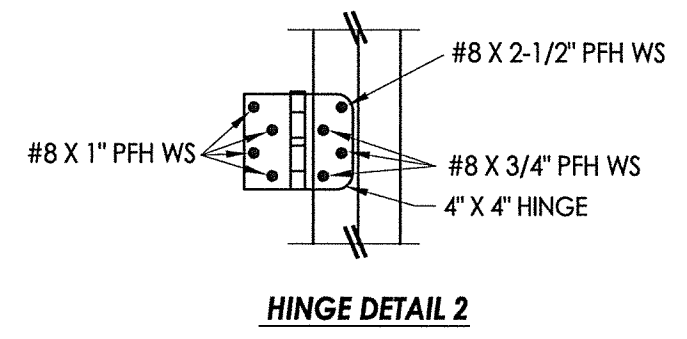
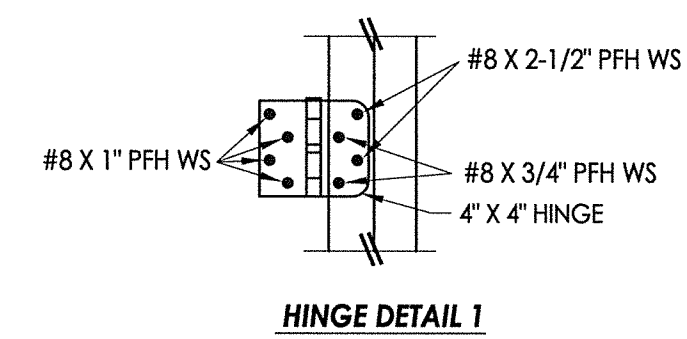
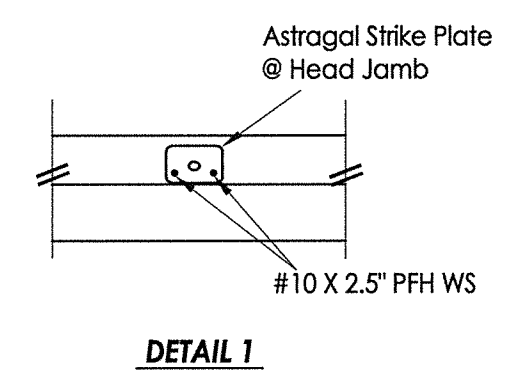
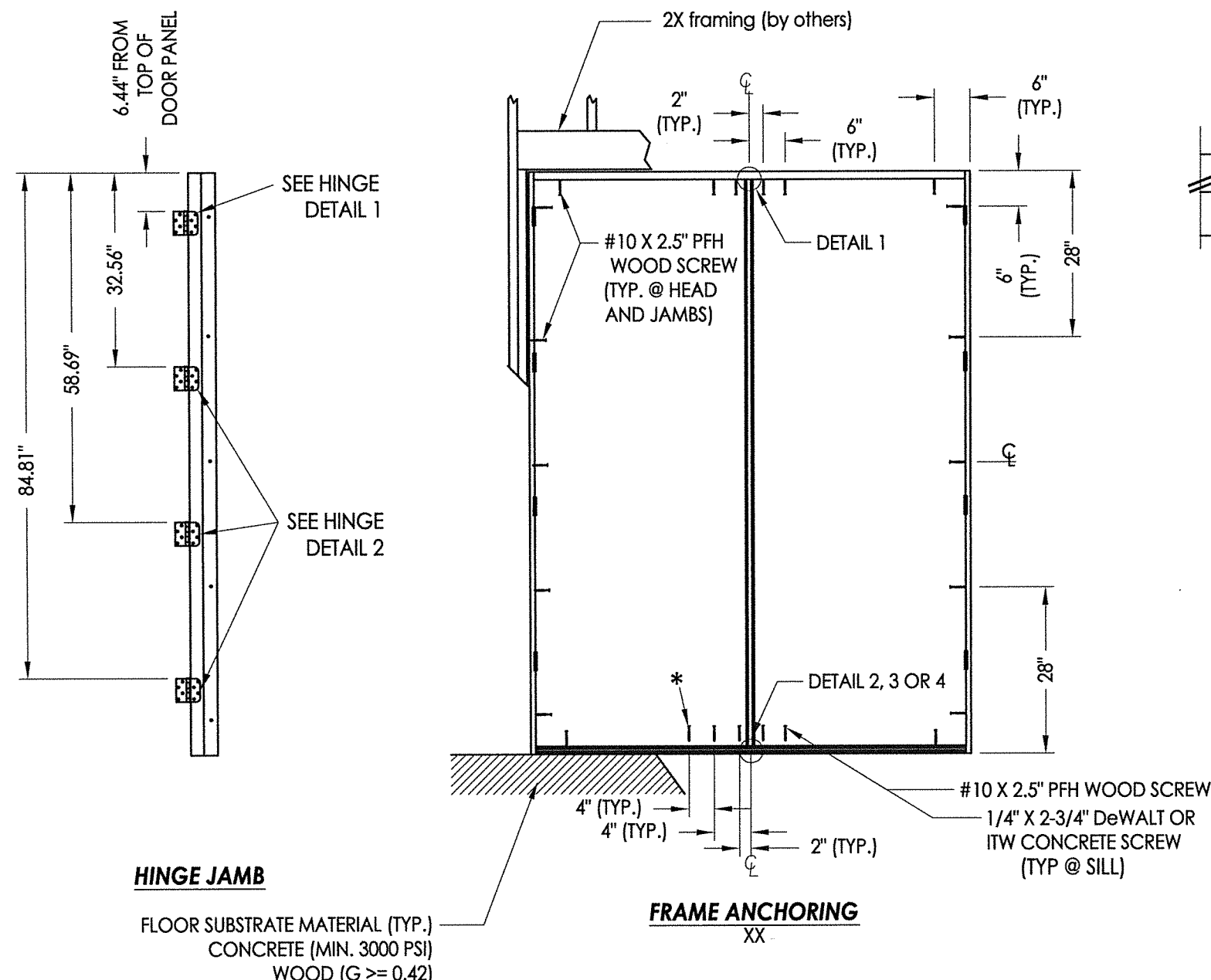


13 **OUTSWING THRESHOLD**
ZOB4565RDS



14 **OUTSWING THRESHOLD**
FOB4566

PRODUCT:		ENDURA	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
5	11/10/21	LFS	UPDATE TO 2018 IBC/IRC CODE
4	11/7/18	MT	REVISED TO INSERT GLAZED ONLY
3	11/02/16	LFS	ADDED THRESHOLDS
2	5/05/15	LFS	ADD NEW ASTRAGAL PIN CAPTURE
1	1/07/14	LFS	ADDED ARTICULATING SILL
DATE: 8/09/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4213			
SHEET 7 OF 8			

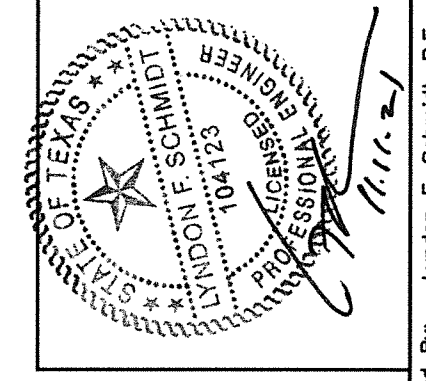
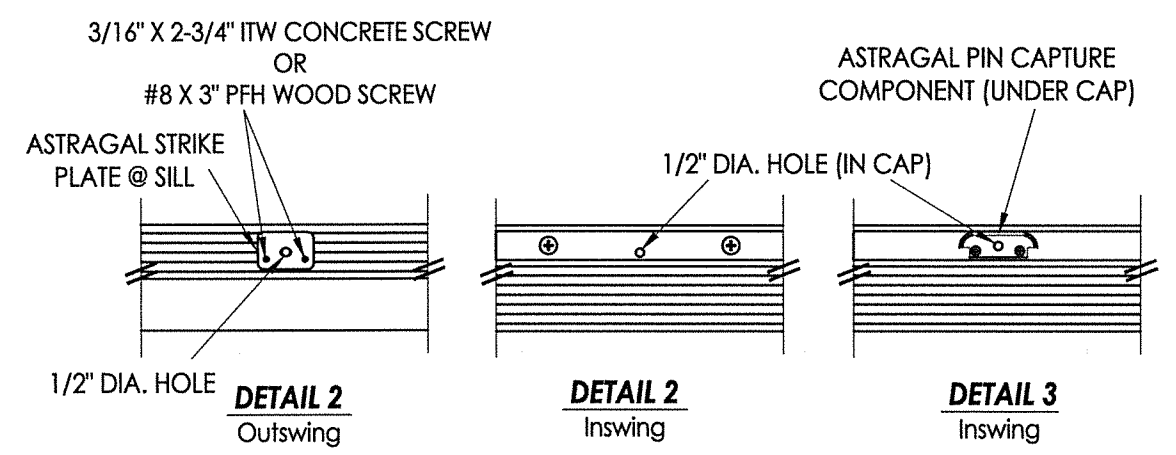


* NOTE: This anchor required for D.P. > 40 PSF.

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"	1-3/4"	3"	1-1/2"
	1/4"	1-3/4"	1-1/2"	4"
DeWALT ULTRACON®	1/4"	1-3/4"	1"	4"



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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
5	11/10/21	UPDATE TO 2018 IBC/IRC CODE
4	11/7/18	REVISED TO INSERT GLAZED ONLY
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DATE: 8/09/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4213

SHEET 8 OF 8