

6'0 X 8'0
GLAZED PREMIUM FIBERGLASS
DOUBLE DOOR INSWING / OUTSWING
"NON-IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

The Trinity Glazed Premium Fiberglass Double Door described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

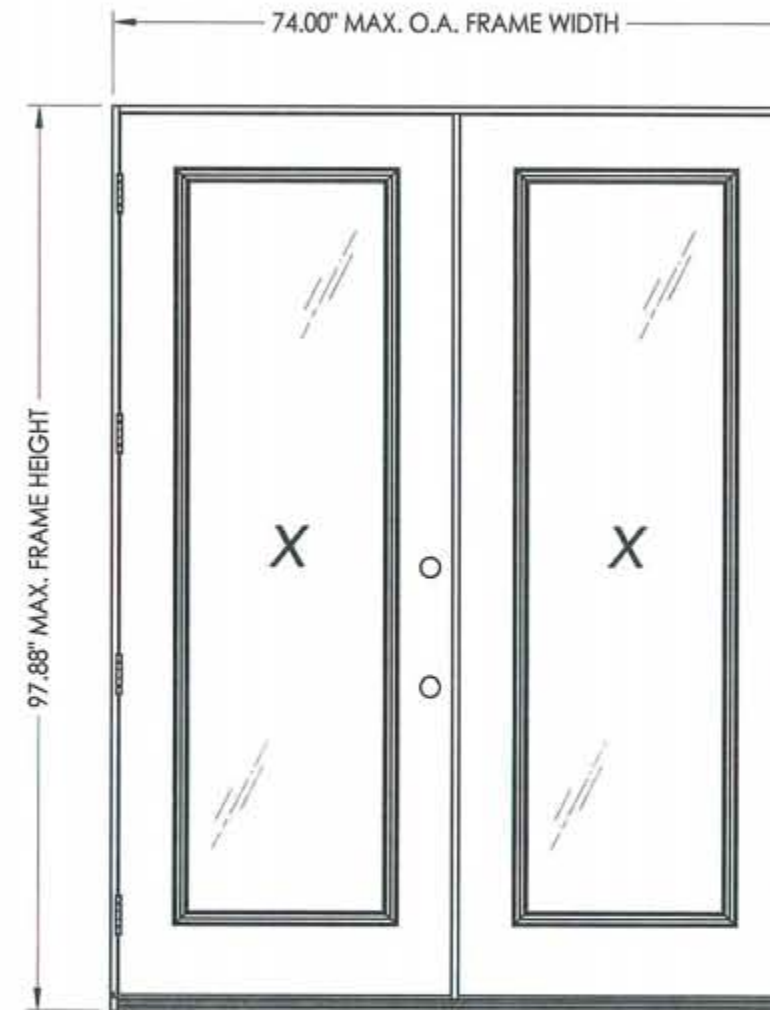
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
3. 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.
4. Conditions not covered by this drawing are subject to further engineering analysis.

SUPPORTING DOCUMENTS & EVIDENCE

1. Testing per ASTM E330-02 as performed by Testing Evaluation Laboratories Inc. and reported in test report numbers TEL 08-01370046 and TEL 05-1026-2, signed by Wendell W. Haney, P.E.
2. Calculations (Anchoring and Glass load resistance report ASTM E1300-04) prepared by Lyndon F. Schmidt, P.E.
3. Certificate of Participation issued by the National Accreditation and Management Institute, Inc., certifying that Trinity Glass Int'l is manufacturing products within a Quality Assurance program.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details & glazing details
3	Horizontal cross sections
4	Vertical cross sections
5	Frame anchoring
6	Components
7	Endura astragal details
8	TRC astragal details
9	Bill of materials



ASTRAGAL TYPE	SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE PSF)	
				POSITIVE	NEGATIVE
ENDURA	INSWING	74.00" x 97.88"	G1	+40.0	-40.0
	OUTSWING	74.00" x 96.75"		+40.0	-40.0
TRC	INSWING	74.00" x 97.88"	G1	+50.0	-55.0
	OUTSWING	74.00" x 96.75"		+50.0	-50.0

Refer to Table (sheet 3) for Passage Lock Rating Limitations



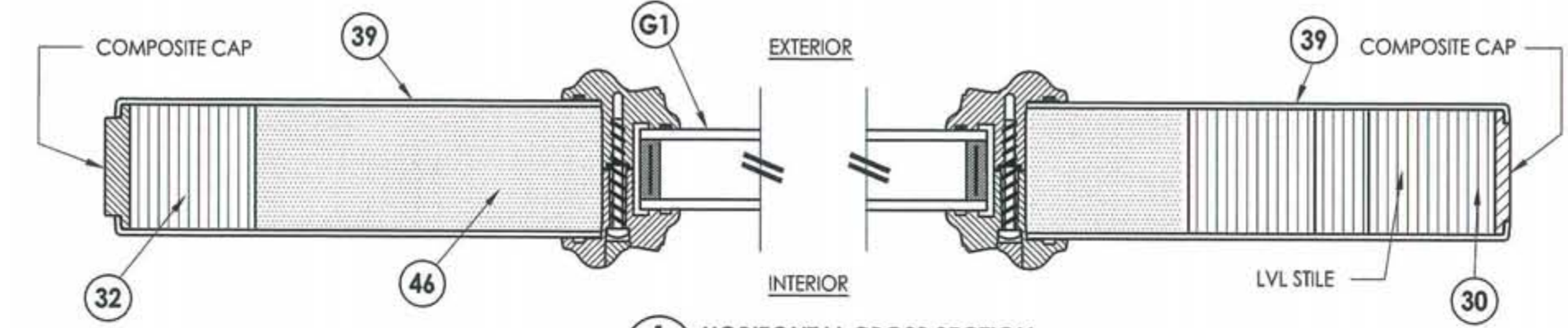
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

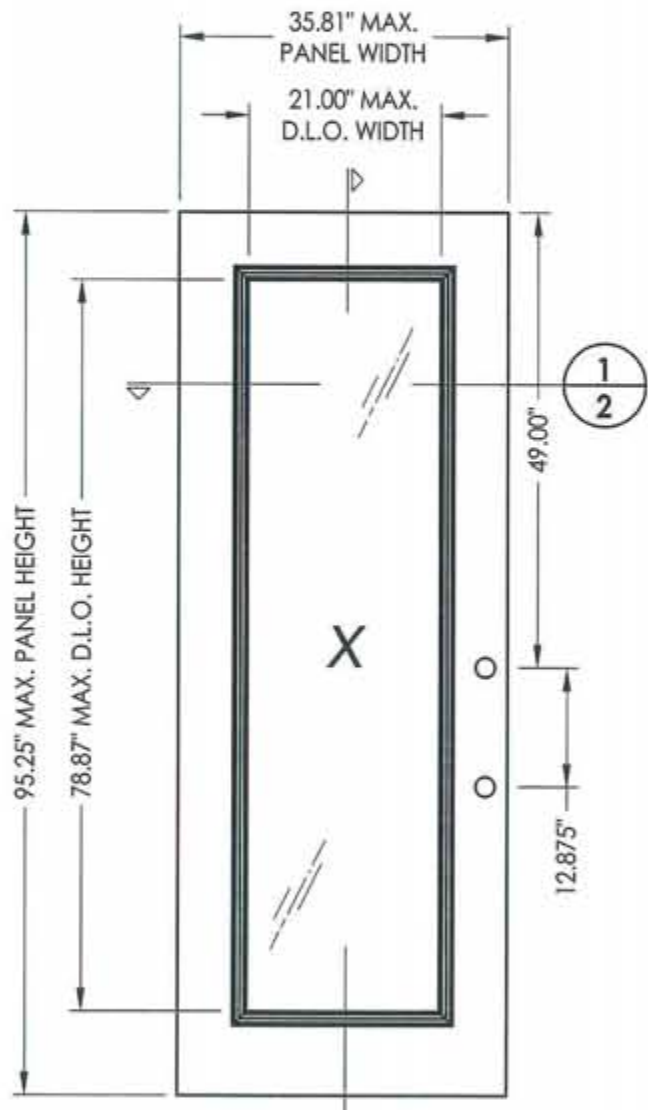
PRODUCT: TRINITY GLASS INT'L
PREMIUM LITE FIBERGLASS
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	
		BY	AL
3	7/27/09	TDI	PRODUCT EVALUATION UPDATE
2	6/28/06	REVIS	LOCKSET NOMENCLATURE
1	12/2/05	REVIS	ANCHOR LOCATIONS
DATE: 11/22/05			
SCALE: N.T.S.			
DWG. BY: AEM			
CHK. BY: LFS			
DRAWING NO.: TX-723			
SHEET 1 OF 9			

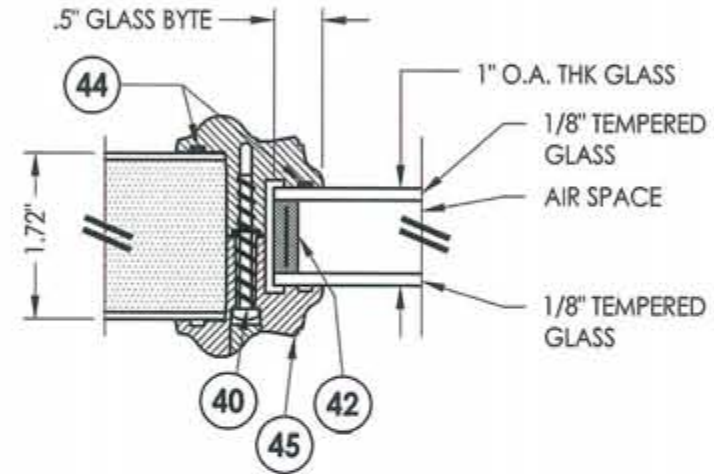
R:\A - Projects\Project Folders\Proj 1101 - 1200\p1160\DWG. RWBC Drawings\TX-723\TX-723.dwg, 2



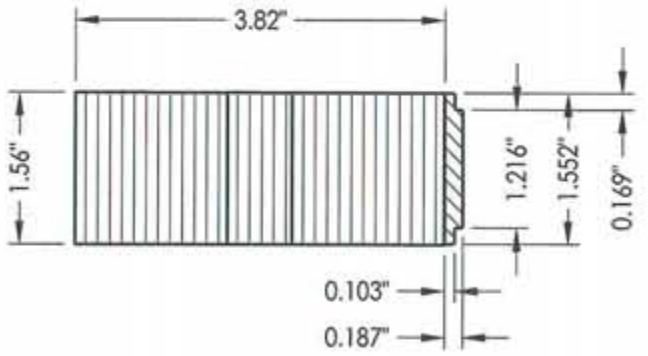
1/2 HORIZONTAL CROSS SECTION



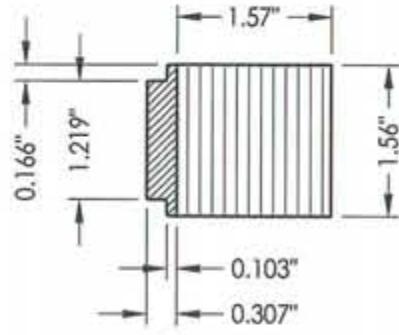
7 PREMIUM LIPLITE FIBERGLASS DOOR



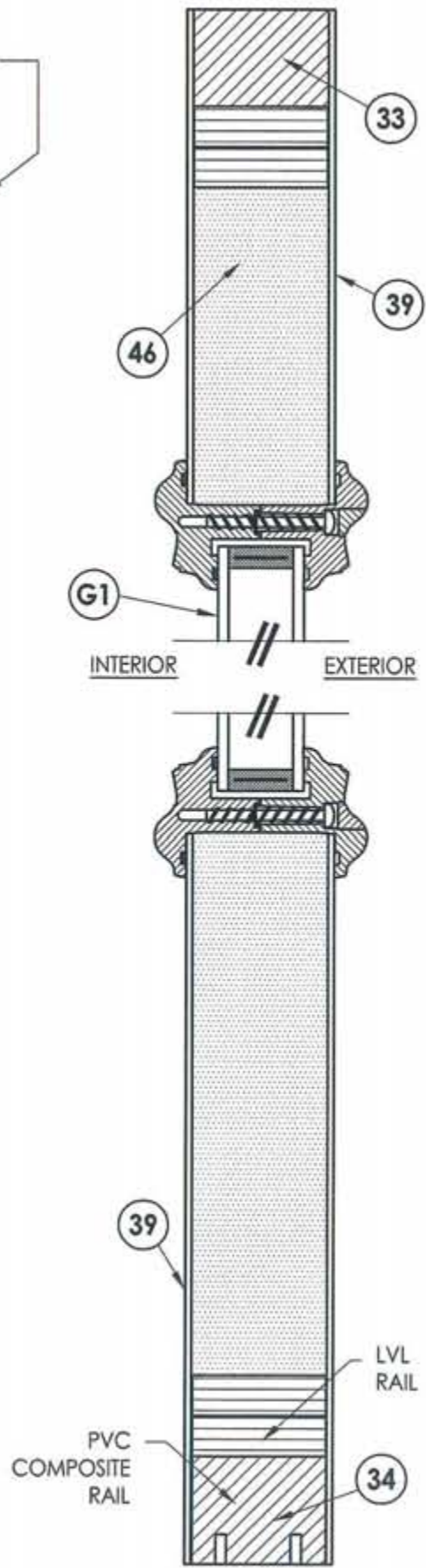
G1 GLAZING DETAIL



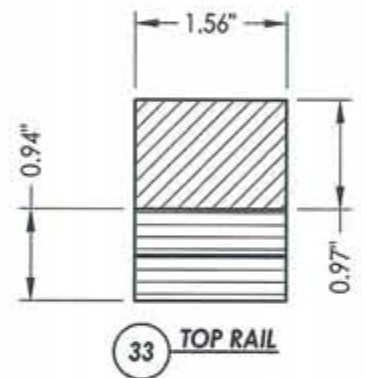
30 LATCH STILE



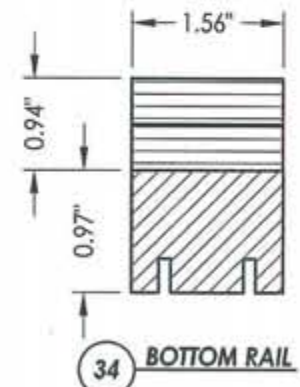
32 HINGE STILE



2/2 VERTICAL CROSS SECTION



33 TOP RAIL

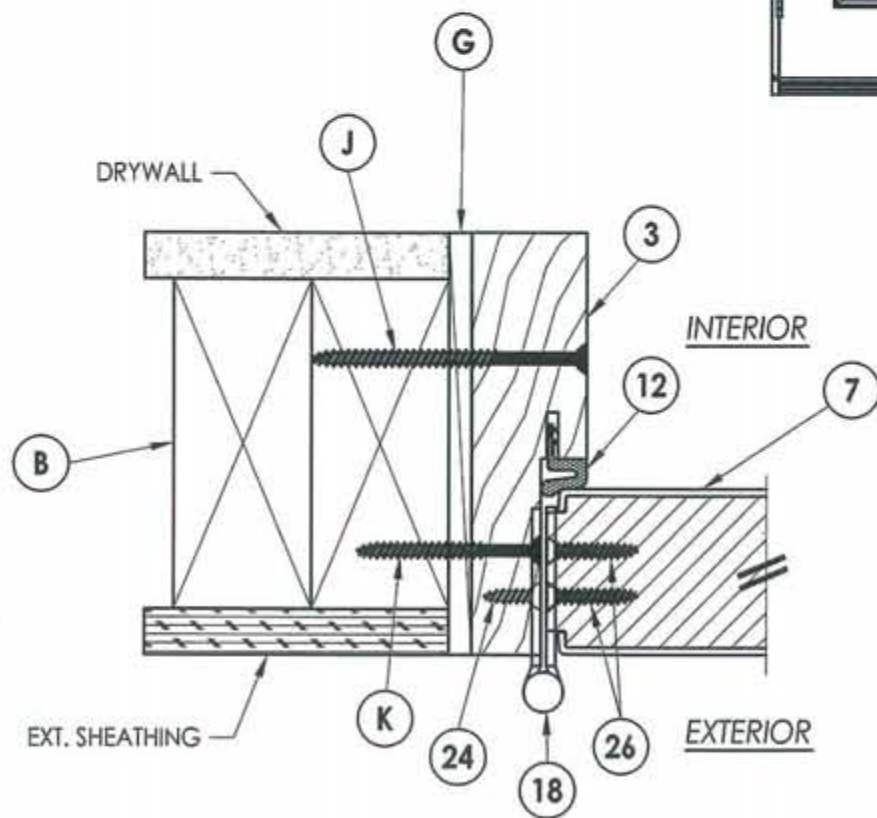


34 BOTTOM RAIL

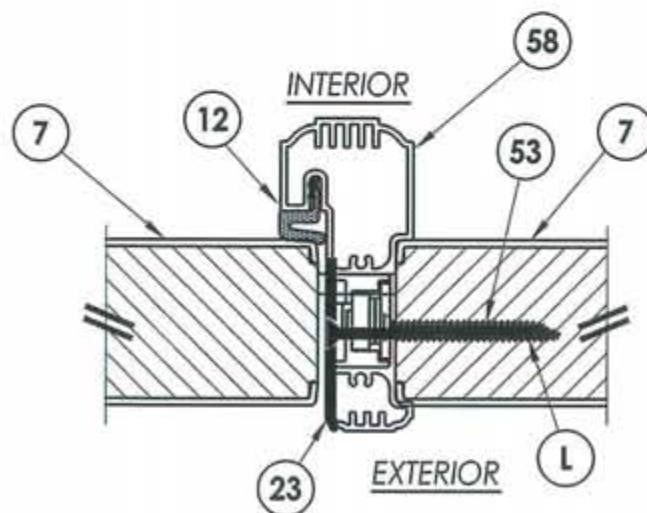
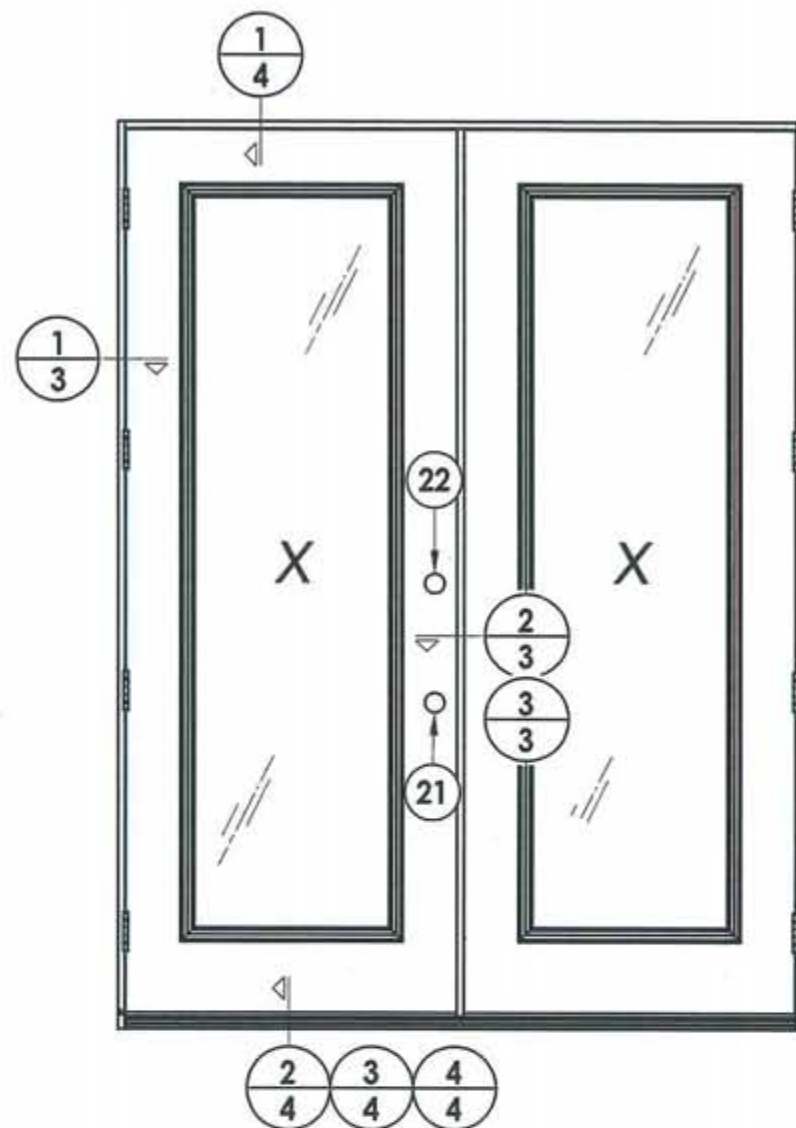


Documents Prepared By: Lyndon F. Schmidt, P.E. TEXAS P.E. #104123		RW BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197		TEXAS BOARD OF PROFESSIONAL ENGINEERS CERTIFICATE OF REGISTRATION # F-11852	
PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS		PART OR ASSEMBLY: DOOR PANEL CONSTRUCTION DETAILS AND GLAZING DETAILS			
		AL	EW	AEM	BY
		TDI PRODUCT EVALUATION UPDATE	REVISED LOCKSET NOMENCLATURE	REVISED ANCHOR LOCATIONS	
3	7/27/09				
2	6/28/06				
1	12/2/05				
	NO. DATE				
REVISIONS					
DATE: 11/22/05					
SCALE: N.T.S.					
DWG. BY: AEM					
CHK. BY: LFS					
DRAWING NO.: TX-723					
SHEET 2 OF 9					

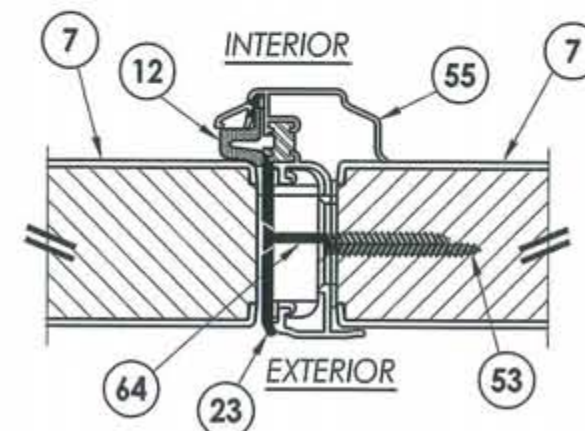
R:\A - Projects\Project Folders\Proj 1101 - 1200\p1160\DWG. RWBC Drawings\TX-723\TX-723.dwg, 3



1 HORIZONTAL CROSS SECTION
3 Outswing shown
Inswing also approved



2 HORIZONTAL CROSS SECTION
3 TRC astragal



3 HORIZONTAL CROSS SECTION
3 Endura astragal

LOCK & DEADBOLT RATINGS CHART				
MANUFACTURER	MODEL	ITEM #	MAX. DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
KWIKSET	LOCK: 740	21	+50.0	-55.0
	DEADBOLT: 780	22		
KWIKSET	LOCK: COMBO 660	21	+50.0	-55.0
	DEADBOLT: COMBO 660	22		
SCHLAGE	LOCK: MAX. SECURITY	21	+50.0	-55.0
	DEADBOLT: MAX. SECURITY	22		



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

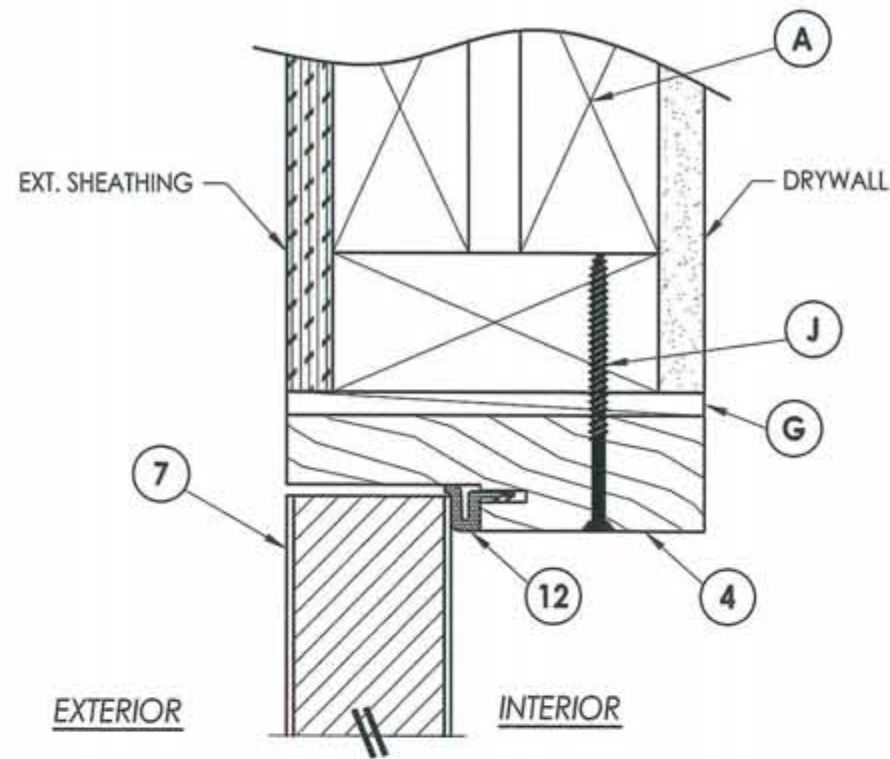
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vidor, TX 75695
Phone No.: 813.659.9197

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

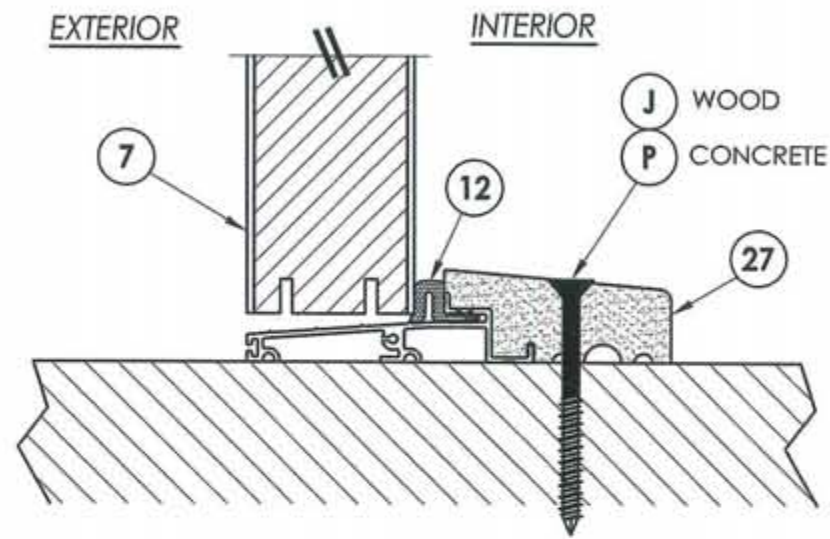
PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	7/27/09	TDI PRODUCT EVALUATION UPDATE
2	6/28/06	REVISED LOCKSET NOMENCLATURE
1	12/2/05	REVISED ANCHOR LOCATIONS
		AEM
		BY

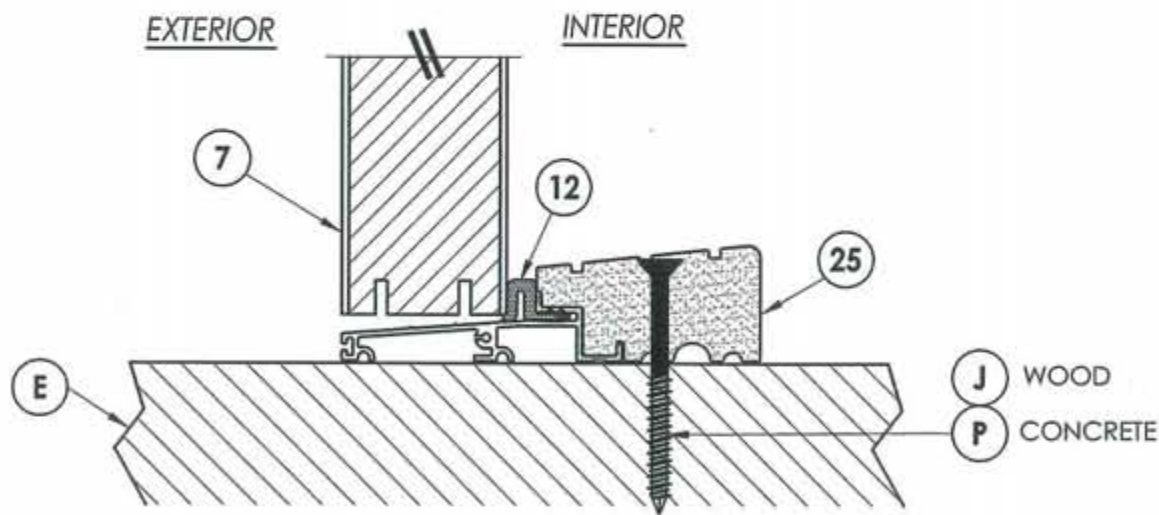
DATE: 11/22/05
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: LFS
DRAWING NO.: TX-723
SHEET 3 OF 9



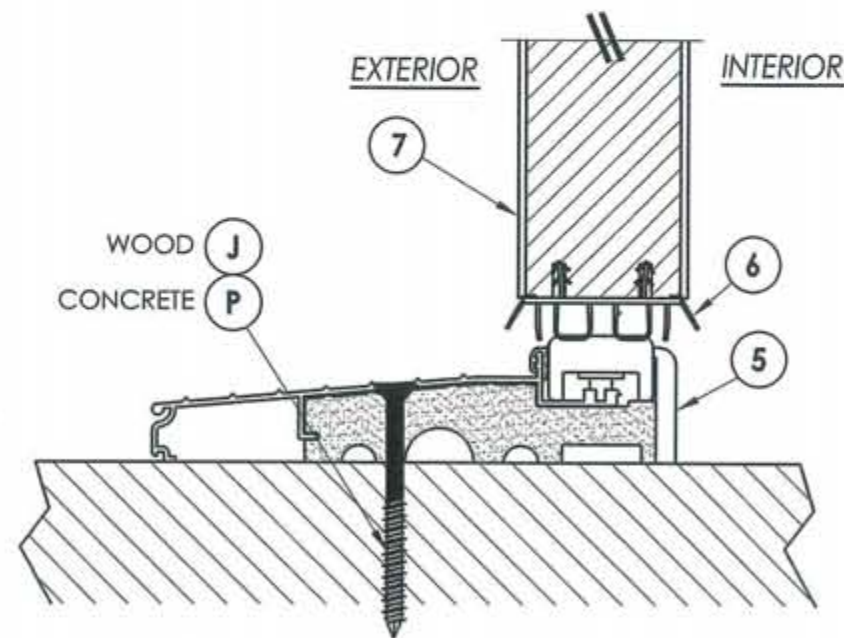
1
4 **VERTICAL CROSS SECTION**
Outswing shown
Inswing also approved



2
4 **VERTICAL CROSS SECTION**
Outswing configuration



3
4 **VERTICAL CROSS SECTION**
Outswing configuration



4
4 **VERTICAL CROSS SECTION**
Inswing configuration



1.6-10

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

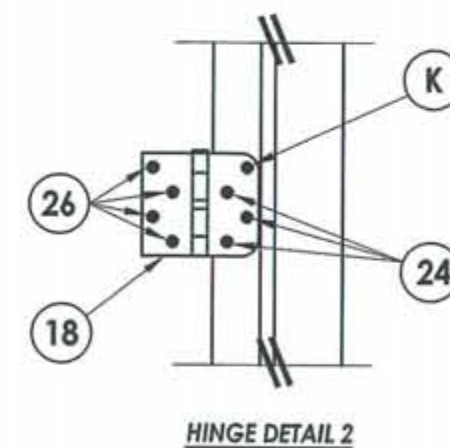
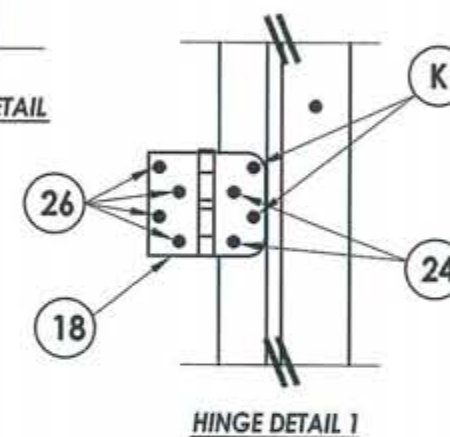
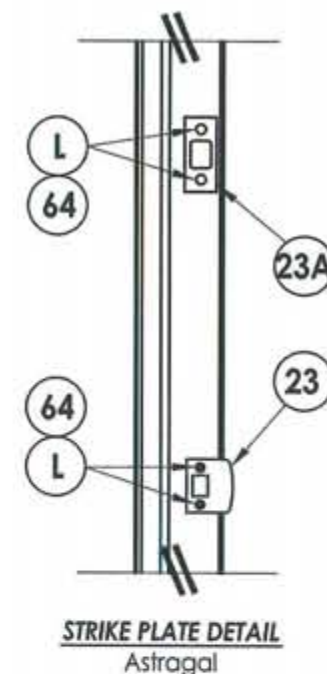
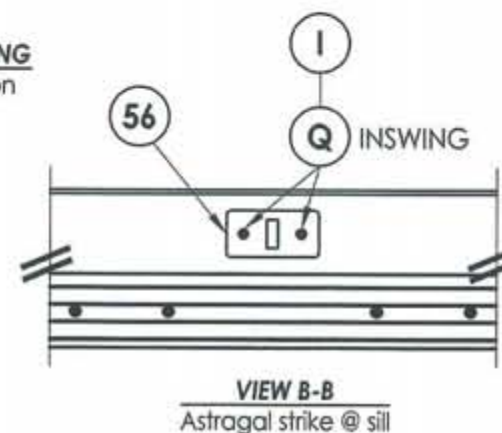
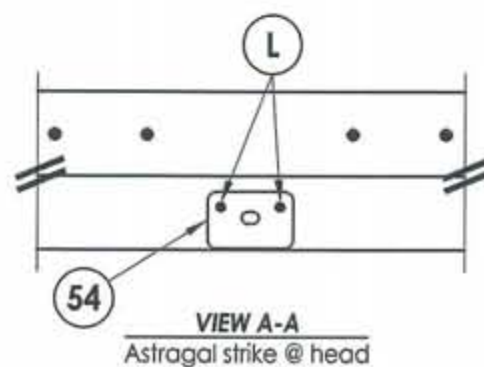
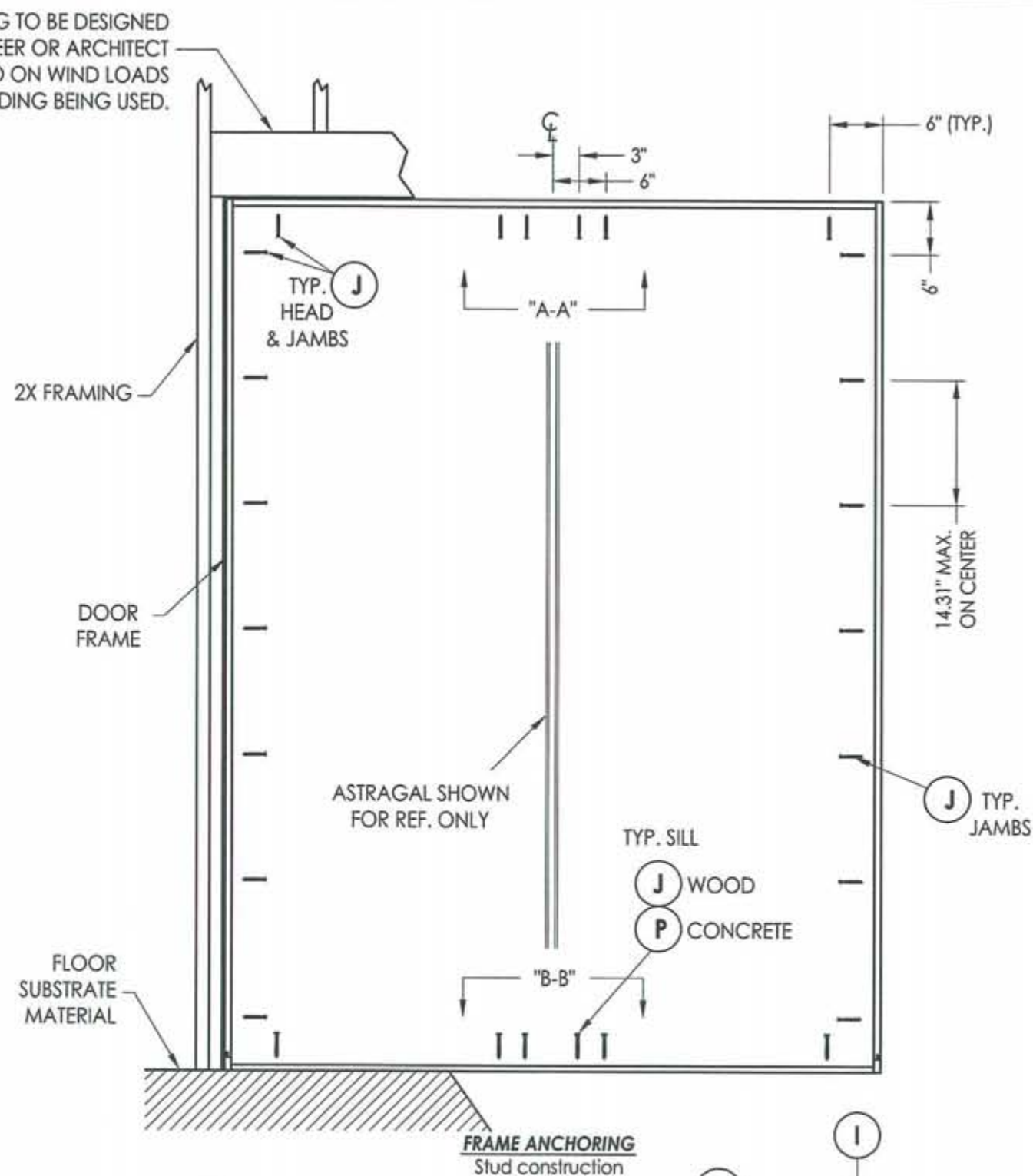
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	7/27/09	TDI PRODUCT EVALUATION UPDATE
2	6/28/06	REVISED LOCKSET NOMENCLATURE
1	12/2/05	REVISED ANCHOR LOCATIONS
1		

DATE: 11/22/05
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: LFS
DRAWING NO.:
TX-723
SHEET 4 OF 9

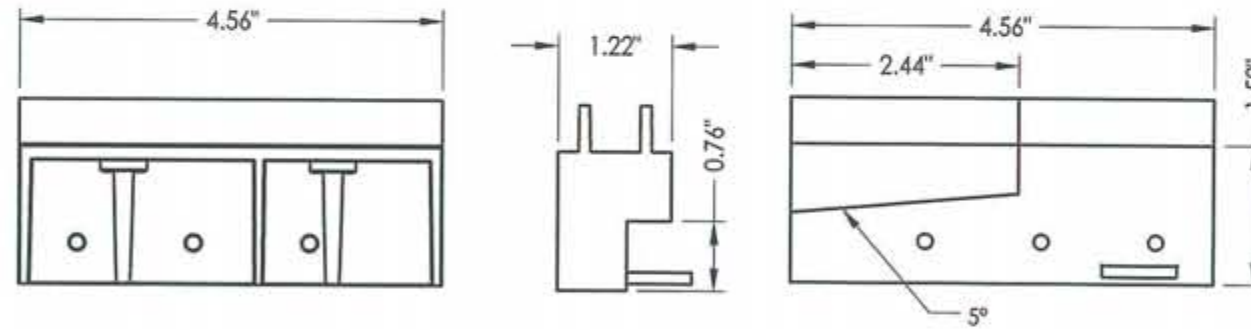
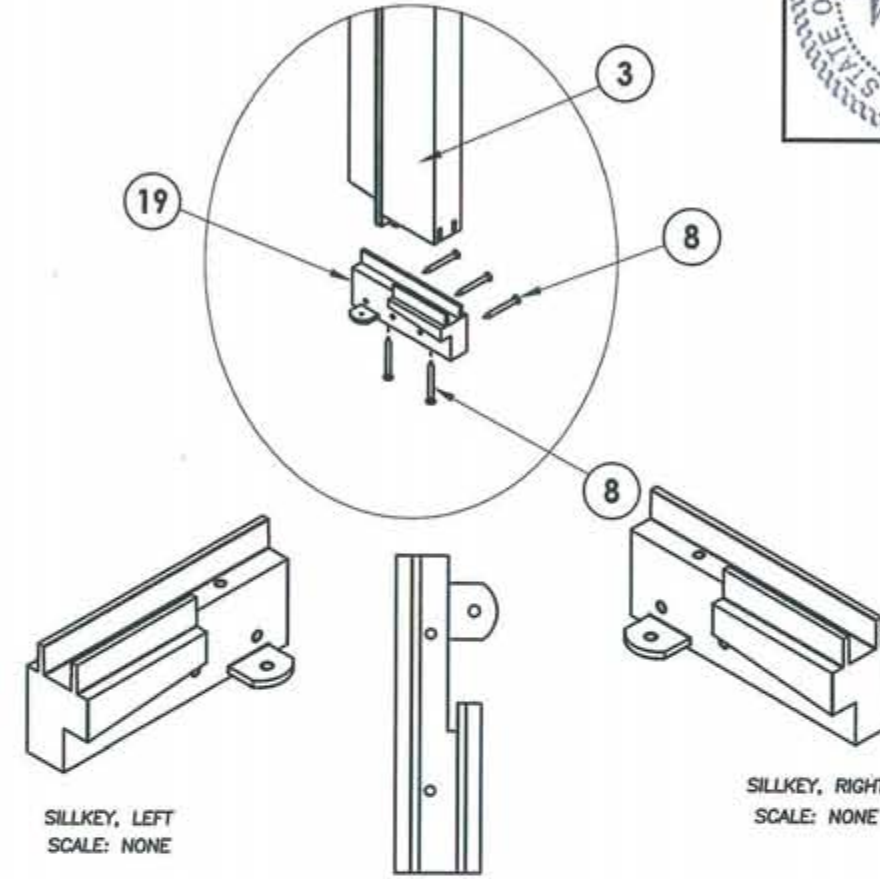
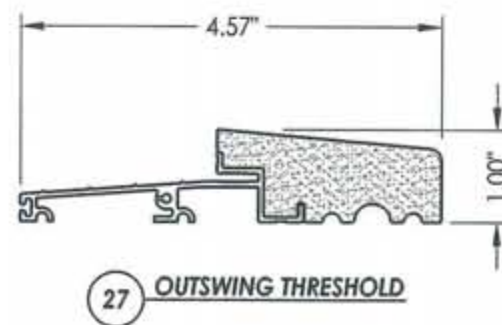
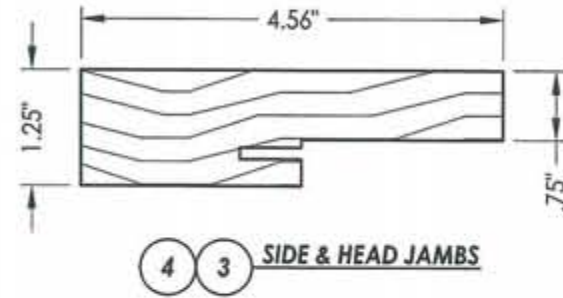
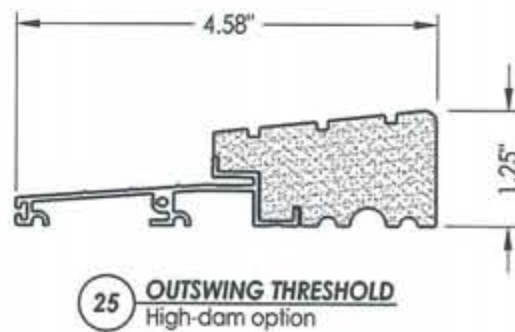
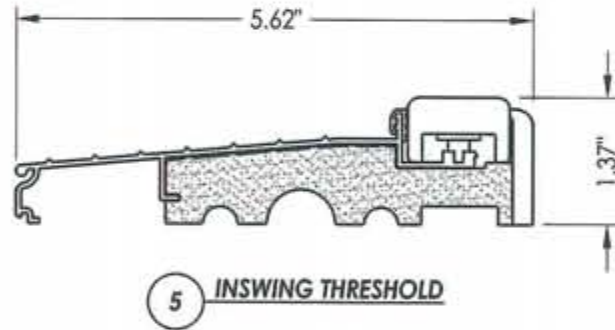
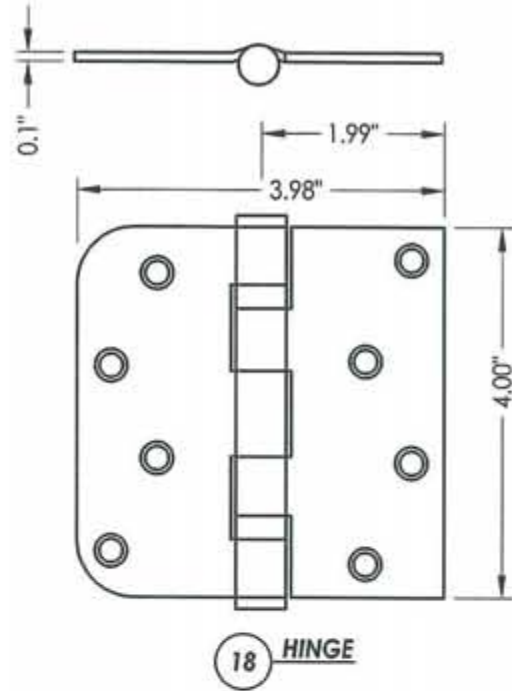


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

[illegible]

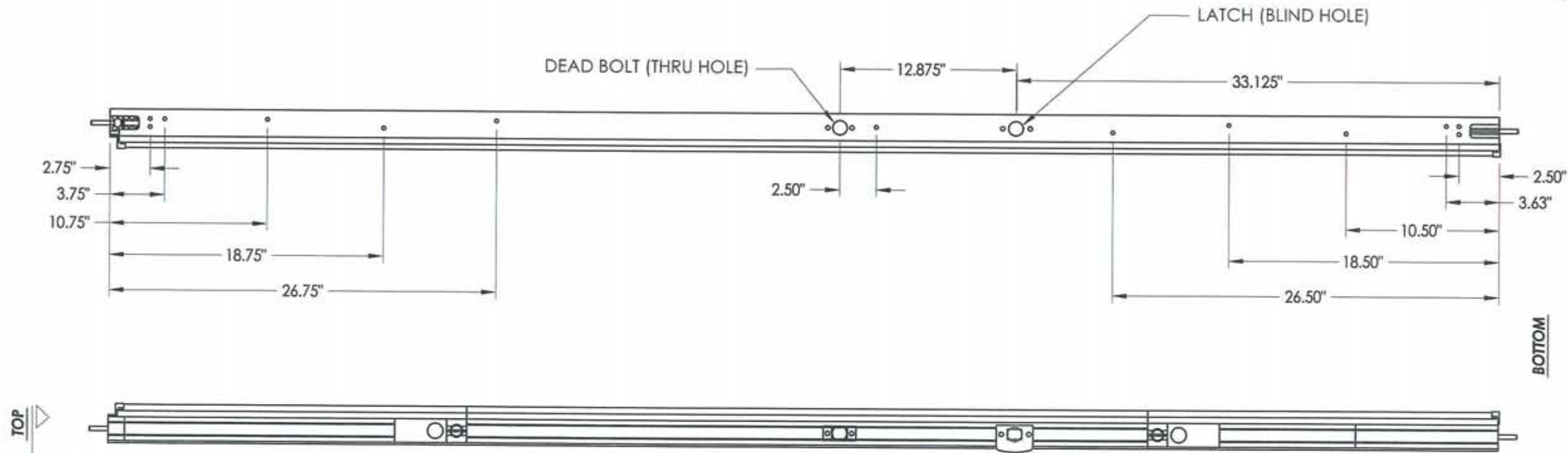


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

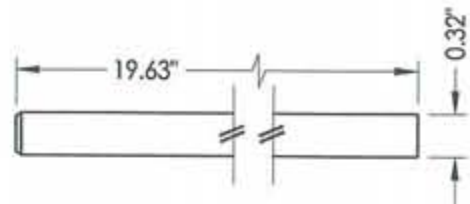
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vero Beach, FL 33595
Phone No.: 813.659.9197

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

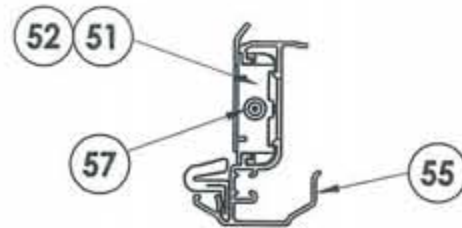
PRODUCT:		PART OR ASSEMBLY:	
TRINITY GLASS INT'L PREMIUM LIP LITE FIBERGLASS		COMPONENTS	
NO.	DATE	BY	REVISIONS
3	7/27/09	TDI	PRODUCT EVALUATION UPDATE
2	6/28/06	EW	REVISED LOCKSET NOMENCLATURE
1	12/2/05	AEM	REVISED ANCHOR LOCATIONS
DATE: 11/22/05			
SCALE: N.T.S.			
DWG. BY: AEM			
CHK. BY: LFS			
DRAWING NO.: TX-723			
SHEET 6 OF 9			



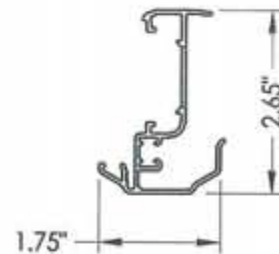
8'-0" ALUMINUM ASTRAGAL ASSEMBLY
By Endura Products



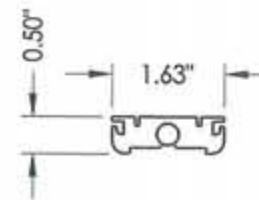
57 SLIDE BOLT ROD
MATL: Steel



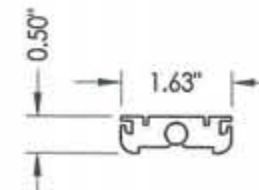
VIEW A-A
Aluminum Astragal Assembly



55 ALUMINUM ASTRAGAL
By Endura Products



52 TOP BOLT RETAINER
MATL: 9-3/4" Aluminum



51 TOP BOLT RETAINER
MATL: 4-3/4" HDPE



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

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

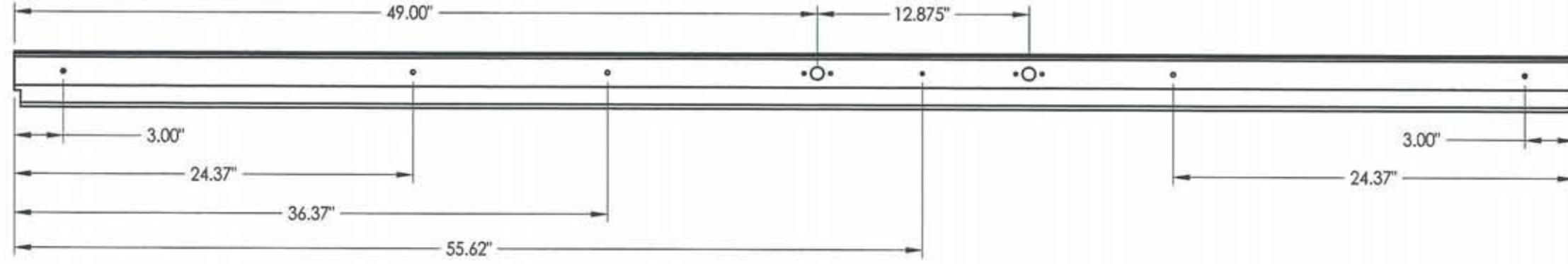
PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
ENDURA ASTRAGAL DETAILS

NO.	DATE	BY	REVISIONS
3	7/27/09	TDI	PRODUCT EVALUATION UPDATE
2	6/28/06	EW	REVISED LOCKSET NOMENCLATURE
1	12/2/05	AEM	REVISED ANCHOR LOCATIONS

DATE: 11/22/05
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: LFS
DRAWING NO.: TX-723
SHEET 7 of 9

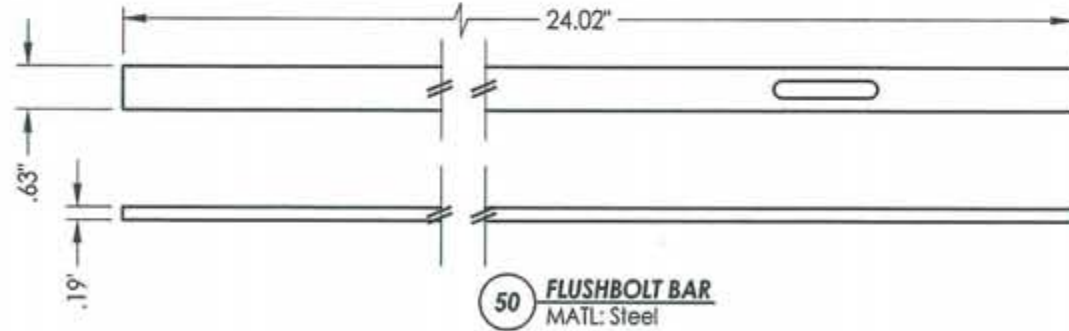
A-A
TOP
BOTTOM



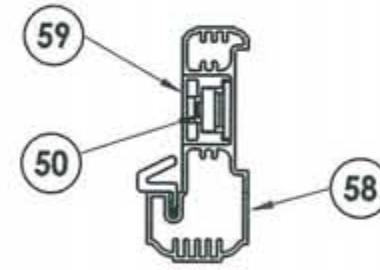
DEAD BOLT THRU HOLE

LATCH THRU HOLE

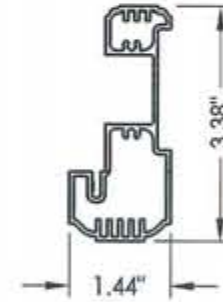
8'0 ALUMINUM ASTRAGAL ASSEMBLY
By Trinity



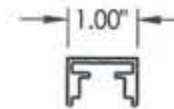
50 FLUSHBOLT BAR
MATL: Steel



VIEW A-A
Aluminum Astragal Assembly



58 ALUMINUM ASTRAGAL
BY Trinity



59 ASTRAGAL CHANNEL
BY Trinity



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

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: TRINITY GLASS INT'L
PREMIUM LIQUITE FIBERGLASS
PART OR ASSEMBLY: TRC ASTRAGAL DETAILS

NO.	DATE	REVISIONS
3	7/27/09	TDI PRODUCT EVALUATION UPDATE
2	6/28/06	REVISED LOCKSET NOMENCLATURE
1	12/2/05	REVISED ANCHOR LOCATIONS

DATE: 11/22/05
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: LFS
DRAWING NO.: TX-723
SHEET 8 OF 9

R:\A - Projects\Project Folders\Proj 1101 - 1200\p1160\DWG. RWBC Drawings\TX-723\TX-723.dwg, 9

BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
A	2X HEADER FRAMING SG >= 0.42	WOOD
B	2X FRAMING SG >= 0.42	WOOD
G	MAX. 1/4" SHIM SPACE	WOOD
I	3/16" X 1-3/4" ITW CONCRETE SCREW	STEEL
J	#10 X 3" PFH WS	STEEL
K	#9 X 2" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
P	3/16" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
Q	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
3	HINGE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD
4	HEAD - FINGER-JOINT PINE - SG >= 0.42	WOOD
5	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUMINUM
6	DOOR BOTTOM SWEEP	PVC
7	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
8	#6 X 1-1/4" PFH DRYWALL SCREW	STEEL
12	WEATHER STRIP QEBD650 Q-LON	-
18	3.983" X 4" HINGE MIN 0.098" THICK	STEEL
19	SILLKEY	PC/ASA
21		STEEL
22		STEEL
23	STRIKE PLATE	STEEL
23A	DEADBOLT PLATE	STEEL
24	#9 X 5/8" PFH SCREW	STEEL
25	OUTSWING HIGH-DAM THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
26	#9 X 1" PFH SCREW	STEEL
27	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
30	LATCH STILE - SG >= 0.42	LVL/PVC
32	HINGE STILE - SG >= 0.42	LVL/PVC
33	TOP RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
34	BOTTOM RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
39	FIBERGLASS SKIN 0.079" MIN. THICKNESS (Fy = 5,203 PSI MIN.)	FIBERGLASS
40	#8 X 1-1/8" SELF THREADING SCREW	STEEL
42	ALUMINUM & BUTYL SPACER SYSTEM	ALUM./BUTYL
44	HOT MELT SEALANT / SILICONE	-
45	LITE FRAME	PC/ASA
46	INSULATING FOAM CORE	POLYURETHANE
50	FLUSHBOLT BAR	STEEL
51	4-3/4" LENGTH TOP BOLT RETAINER	HDPE
52	9-3/4" LENGTH TOP BOLT RETAINER	ALUMINUM
53	#8 X 1-3/4" PFH SMS	STEEL
54	ASTRAGAL STRIKE @ HEAD	STEEL
55	ASTRAGAL BY ENDURA PRODUCT	ALUMINUM
56	ASTRAGAL STRIKE @ SILL	STEEL
57	SLIDE BOLT ROD	STEEL
58	ASTRAGAL BY TRC	ALUMINUM
59	ASTRAGAL CHANNEL BY TRC	ALUMINUM
64	#8 X 2" PFH WS	STEEL

CONCRETE ANCHOR NOTES:

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If 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" dimensions are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	3/16"	1-3/4"	2-5/8"	2-1/4"
ELCO	3/16"	1-3/4"	1"	3"



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

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: TRINITY GLASS INT'L
PREMIUM LIPUTE FIBERGLASS

PART OR ASSEMBLY:

BILL OF MATERIALS

NO.	DATE	REVISIONS			
		TDI	PRODUCT EVALUATION UPDATE	AL	EW
3	7/27/09				
2	6/28/06		REVISED LOCKSET NOMENCLATURE		
1	12/2/05		REVISED ANCHOR LOCATIONS		

DATE: 11/22/05

SCALE: N.T.S.

DWG. BY: AEM

CHK. BY: LFS

DRAWING NO.:

TX-723

SHEET 9 OF 9