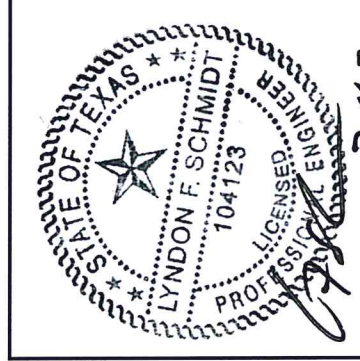
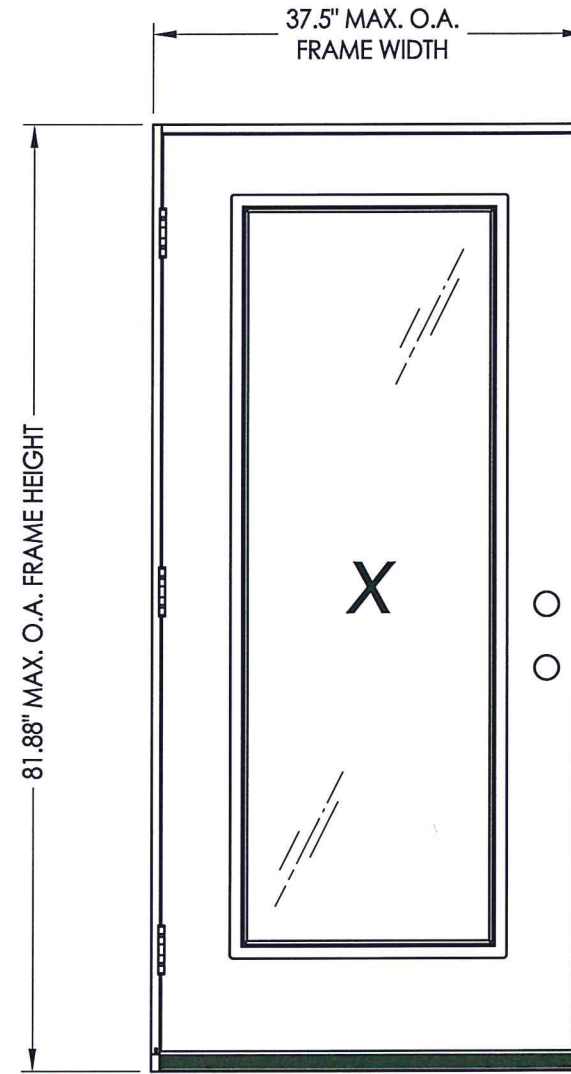




TRINITY GLASS
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

3'0 X 6'8
FLUSH GLAZED FIBERGLASS
SINGLE DOOR
IN SWING / OUT SWING
"NON-IMPACT"



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

RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197

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

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:

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 1609.2 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.

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	Bill of materials

SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
IN SWING	37.5" x 81.88"	G1, G2 & G3	+60.0	-60.0
OUT SWING	37.5" x 80.75"		+60.0	-60.0

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

PRODUCT: TRINITY GLASS INT'L 6'8" FLUSH GLAZED

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

REVISIONS	
NO.	DATE
3	2/03/20
2	7/27/09
1	6/28/06

DATE: 8/29/05

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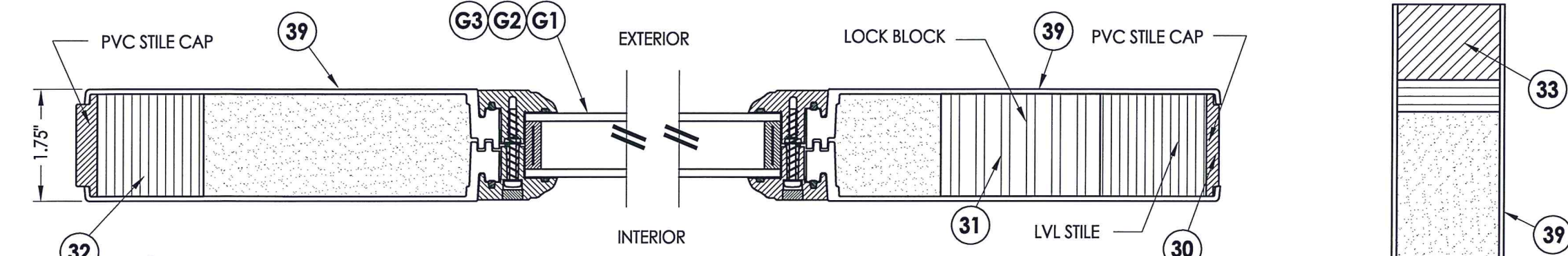
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CHK. BY: LFS

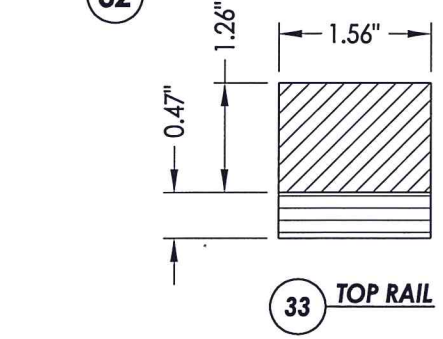
DRAWING NO.: TX-600

SHEET 1 OF 7

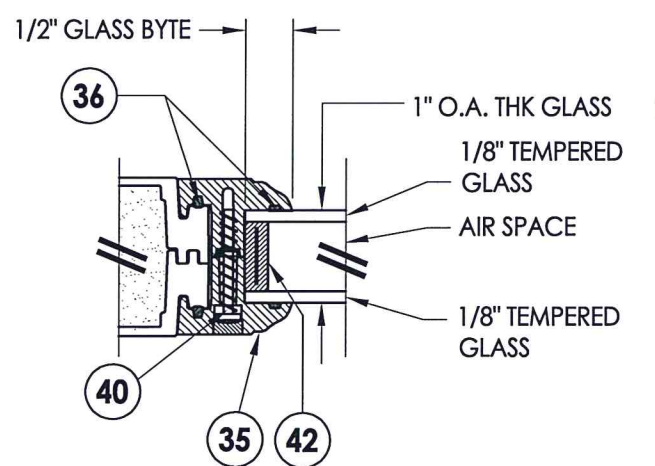
R:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR 181\C - Drawings\DR-181 2018 IBC\TX-600.dwg, 2



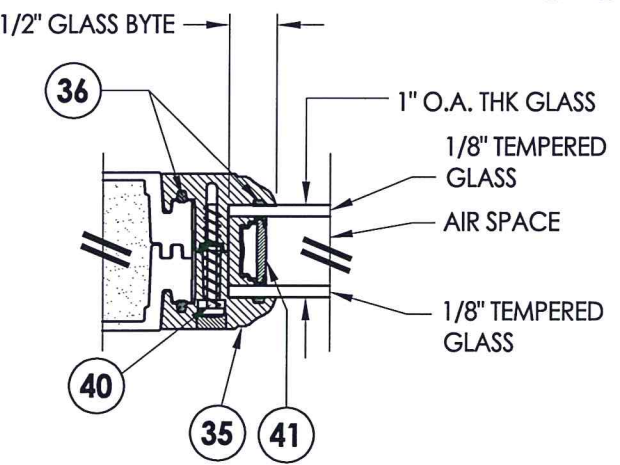
1 HORIZONTAL CROSS SECTION



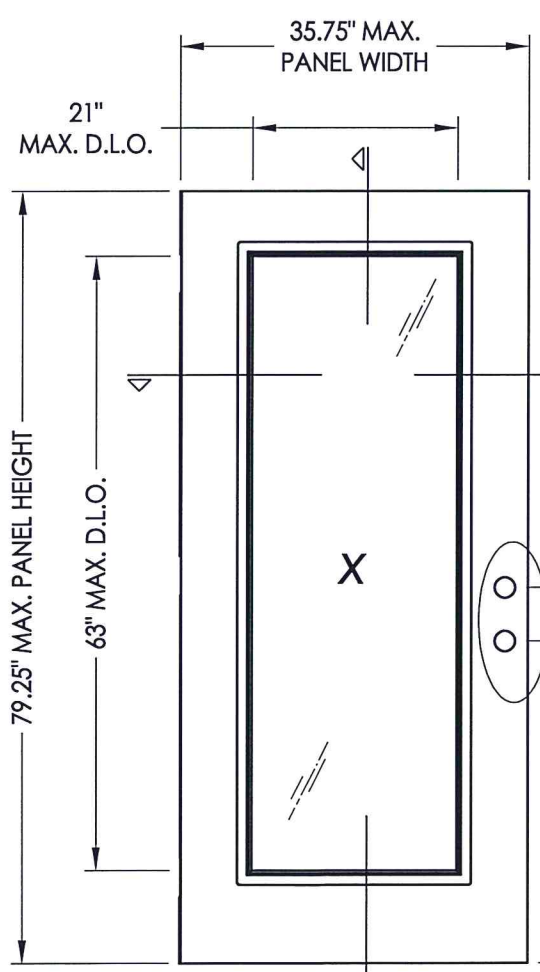
33 TOP RAIL



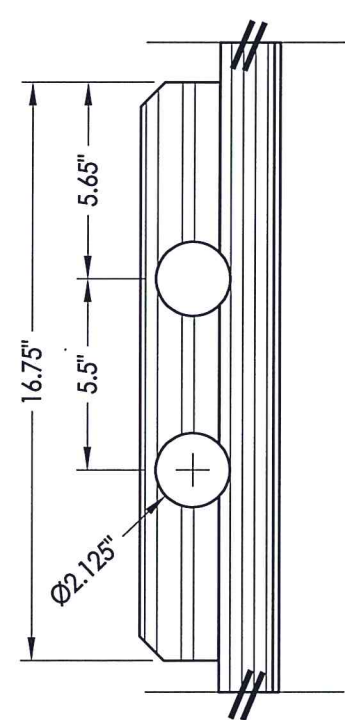
G1 GLAZING DETAIL



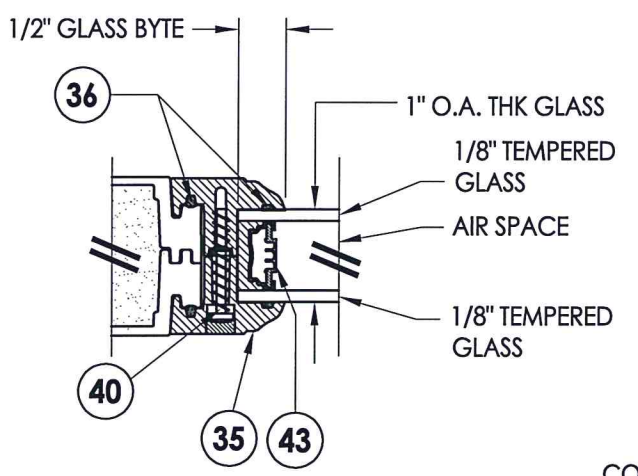
G2 GLAZING DETAIL



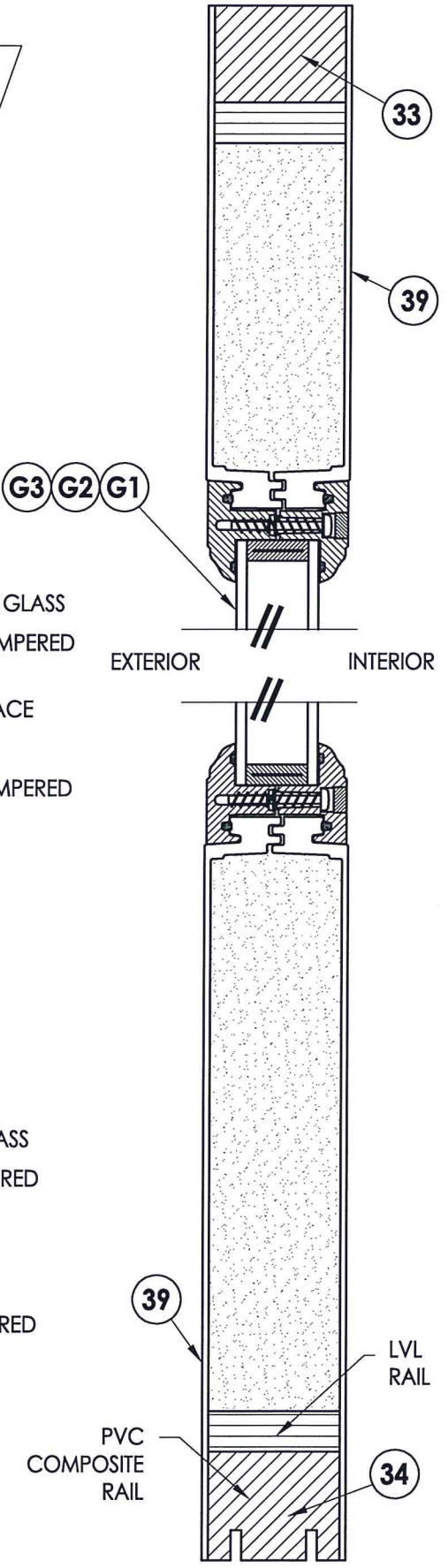
FLUSH-GLAZED DOOR



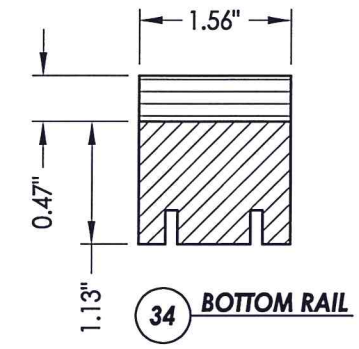
DETAIL 1



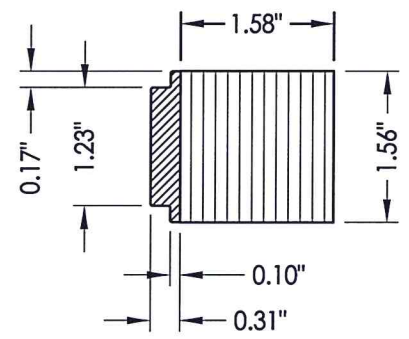
G3 GLAZING DETAIL



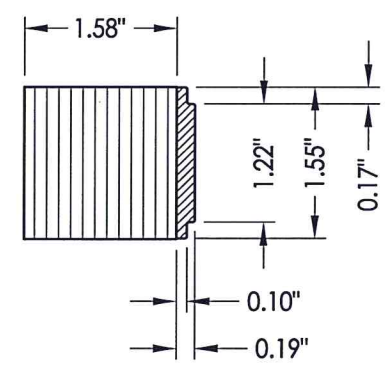
2 VERTICAL CROSS SECTION



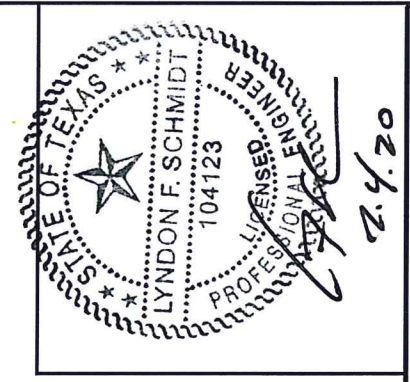
34 BOTTOM RAIL



32 HINGE STILE



30 LATCH STILE



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

PRODUCT: TRINITY GLASS INT'L
6 8 FLUSH GLAZED

PART OR ASSEMBLY:
DOOR PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

NO.	DATE	REVISIONS
3	2/03/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		EW
		BY

DATE: 8/29/05

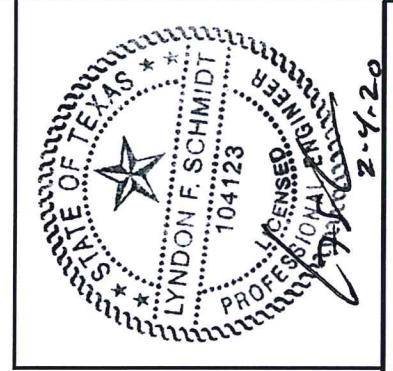
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CHK. BY: LFS

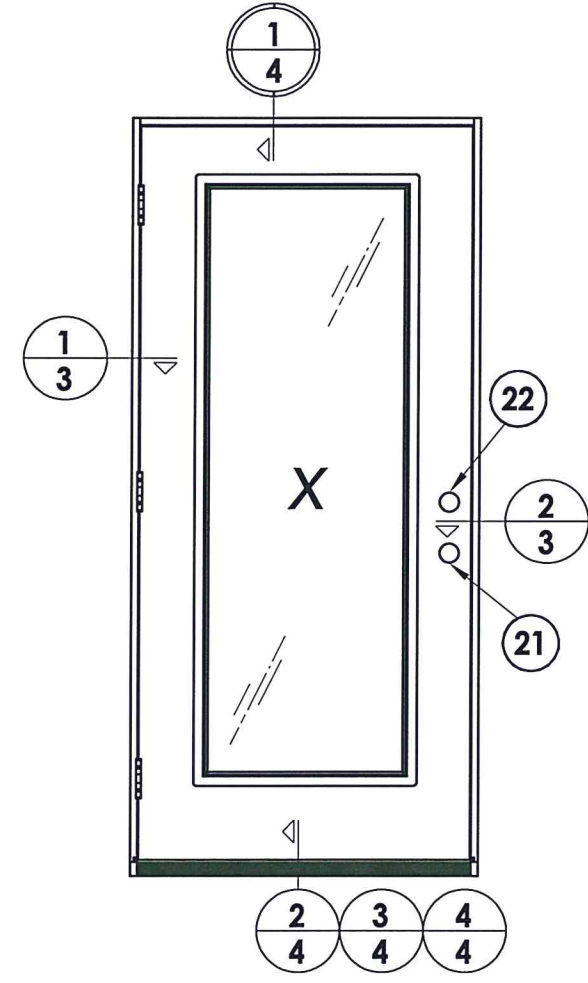
DRAWING NO.: TX-600

SHEET 2 OF 7

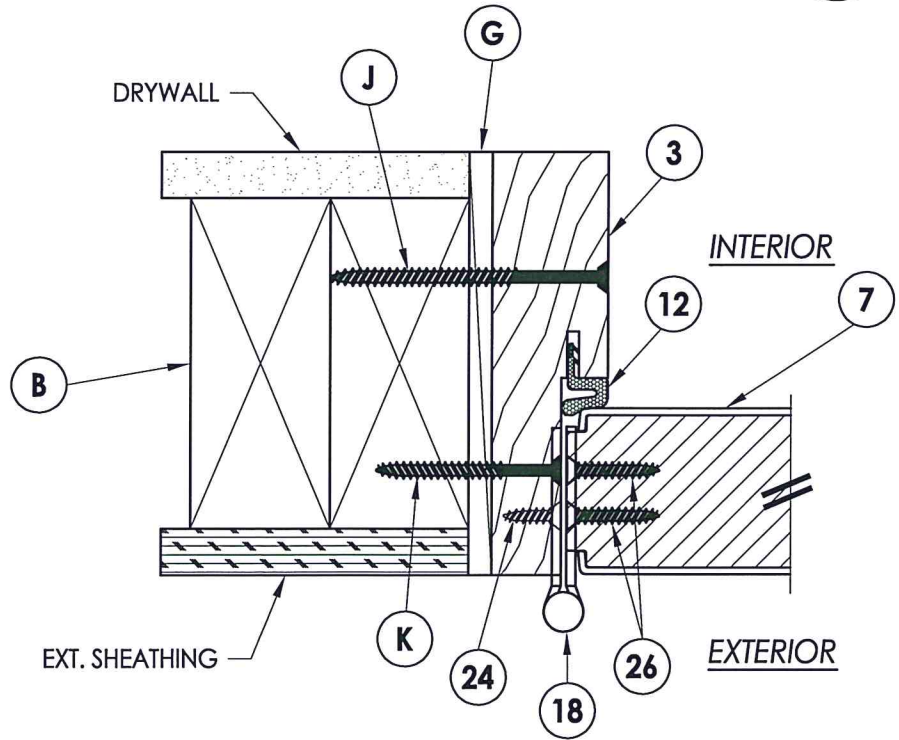


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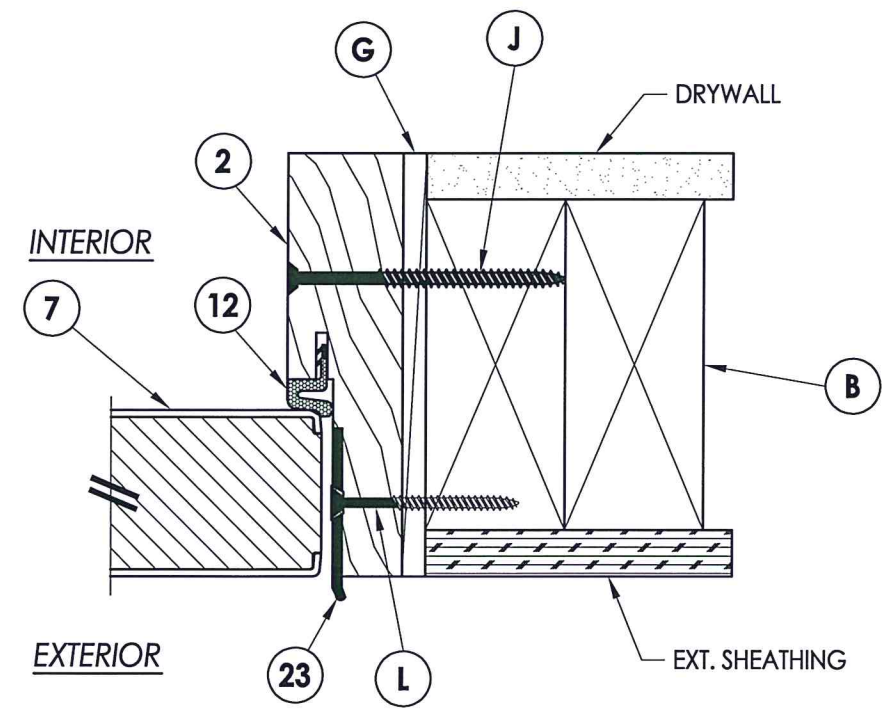
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CERTIFICATE OF REGISTRATION # F-11852



LOCK & DEADBOLT RATINGS CHART				
MANUFACTURER	MODEL	ITEM #	MAX. DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
KWIKSET	LOCK: 740	21	+60.0	-60.0
	DEADBOLT: 780	22		
KWIKSET	LOCK: COMBO 660	21	+60.0	-60.0
	DEADBOLT: COMBO 660	22		
SCHLAGE	LOCK: MAX. SECURITY	21	+60.0	-60.0
	DEADBOLT: MAX. SECURITY	22		



1 HORIZONTAL CROSS SECTION
3 Outswing shown
Inswing also approved

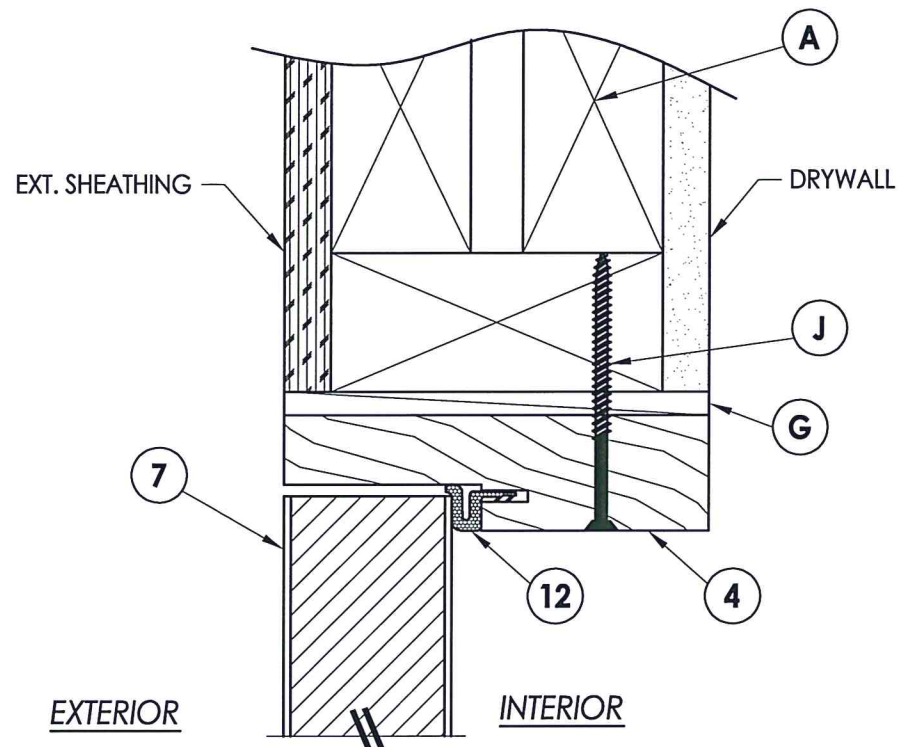


2 HORIZONTAL CROSS SECTION
3 Outswing shown
Inswing also approved

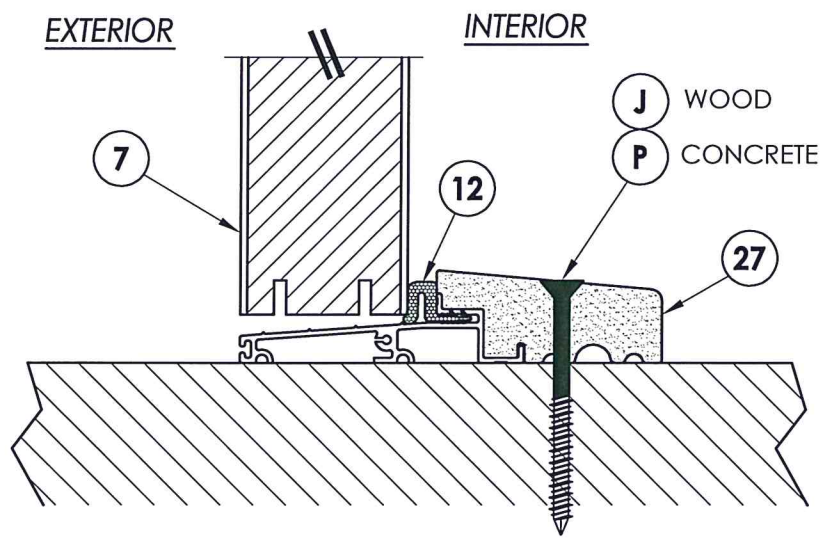
PRODUCT: TRINITY GLASS INT'L
6'8 FLUSH GLAZED
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	2/03/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		EW
		BY

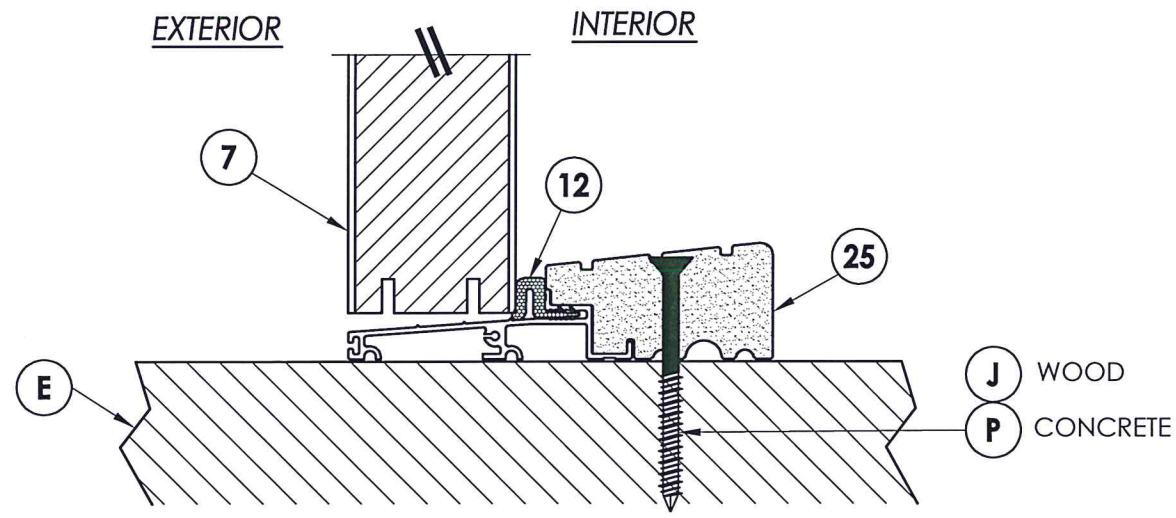
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DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: TX-600
SHEET 3 OF 7



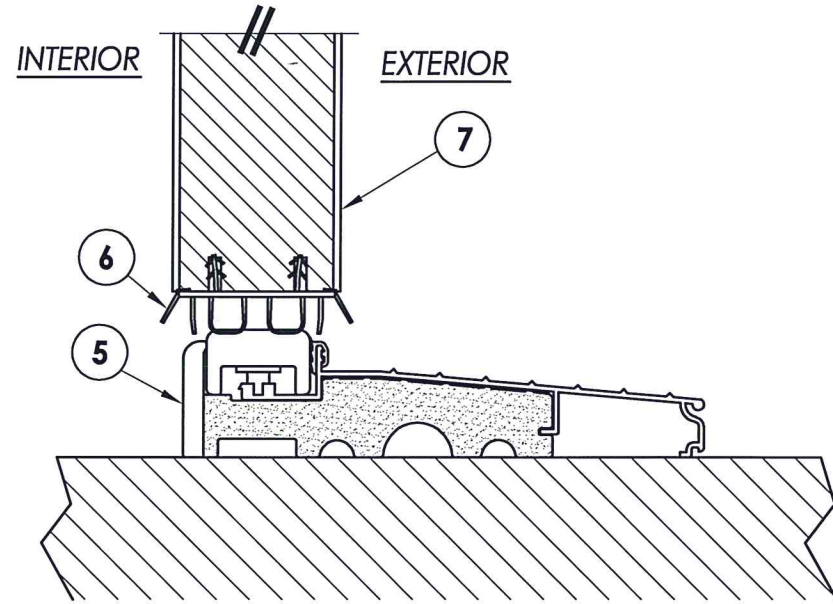
1 VERTICAL CROSS SECTION
4 Outswing shown
 Inswing also approved



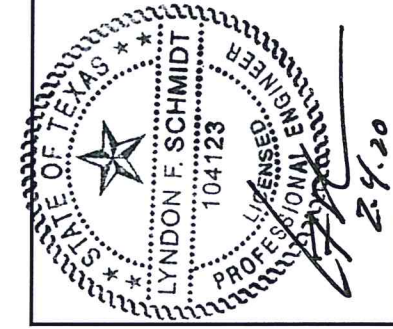
2 VERTICAL CROSS SECTION
4 Outswing configuration



3 VERTICAL CROSS SECTION
4 Outswing configuration



4 VERTICAL CROSS SECTION
4 Inswing configuration



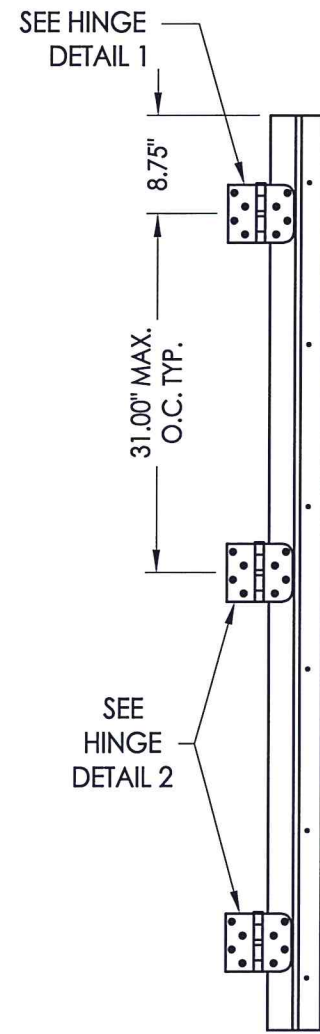
Documents Prepared By: Lyndon F. Schmidt, P.E.
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 CERTIFICATE OF REGISTRATION # F-11852

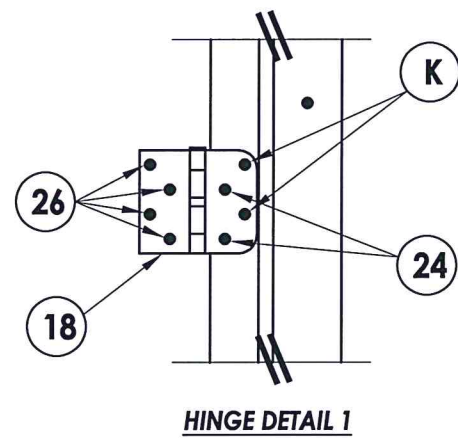
PRODUCT: TRINITY GLASS INT'L
 6'8 FLUSH GLAZED
 PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	2/03/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		EW
		BY

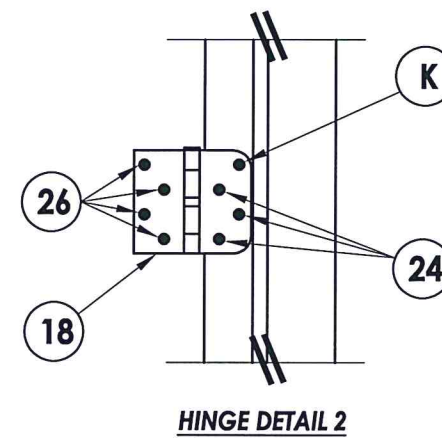
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 SCALE: N.T.S.
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 CHK. BY: LFS
 DRAWING NO.: TX-600
 SHEET 4 OF 7



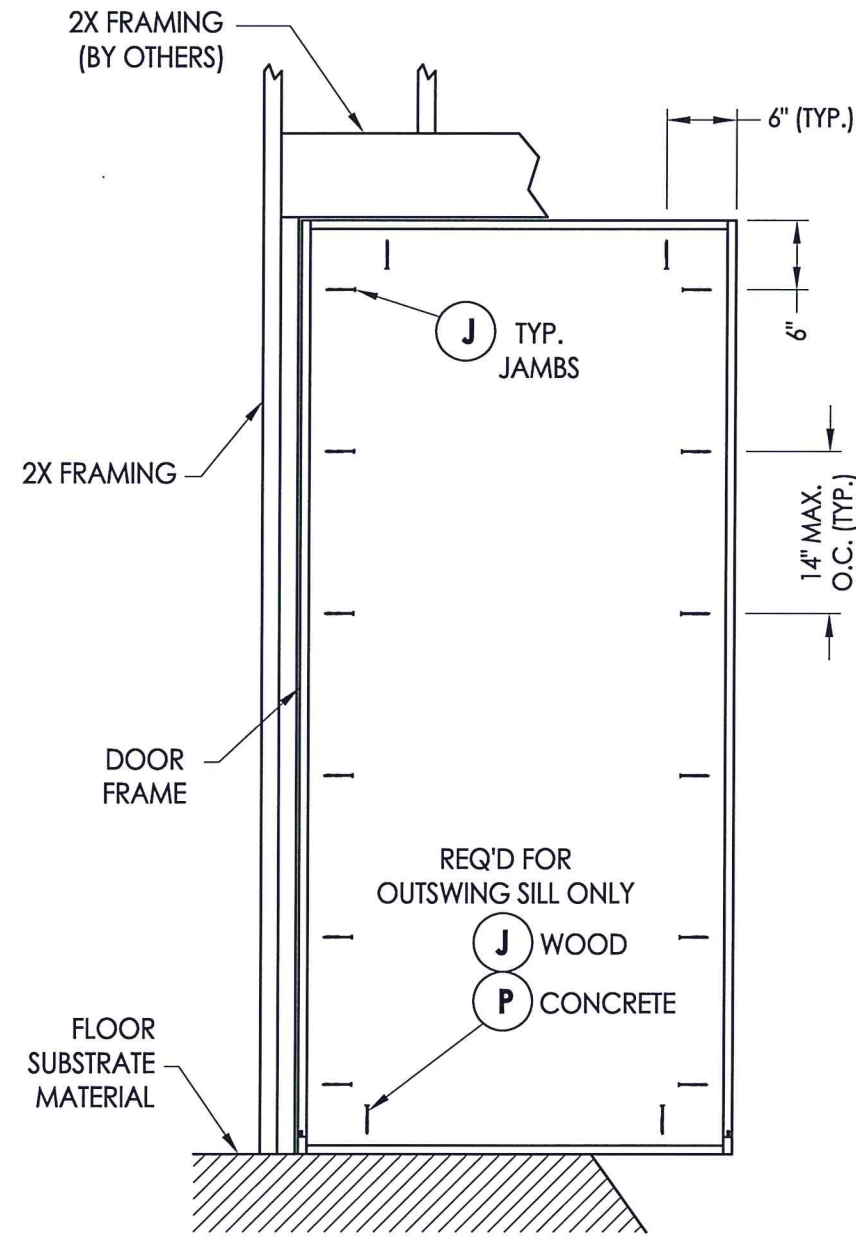
HINGE JAMB



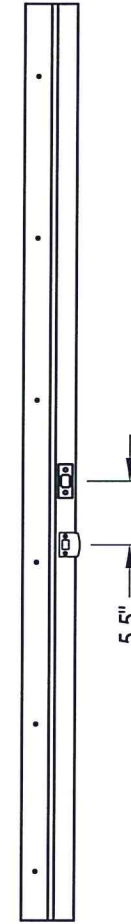
HINGE DETAIL 1



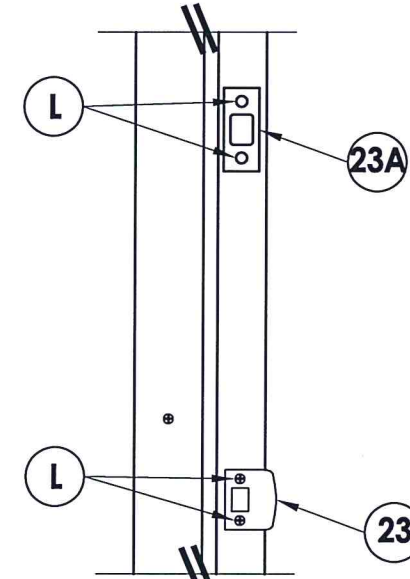
HINGE DETAIL 2



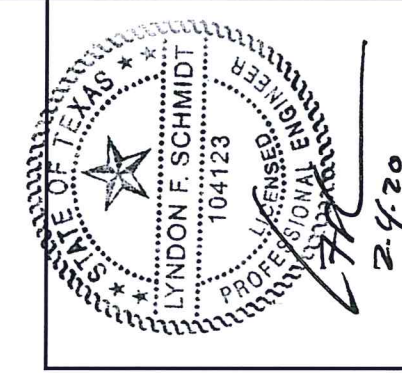
FRAME ANCHORING
Stud construction



STRIKE JAMB



STRIKE PLATE DETAIL



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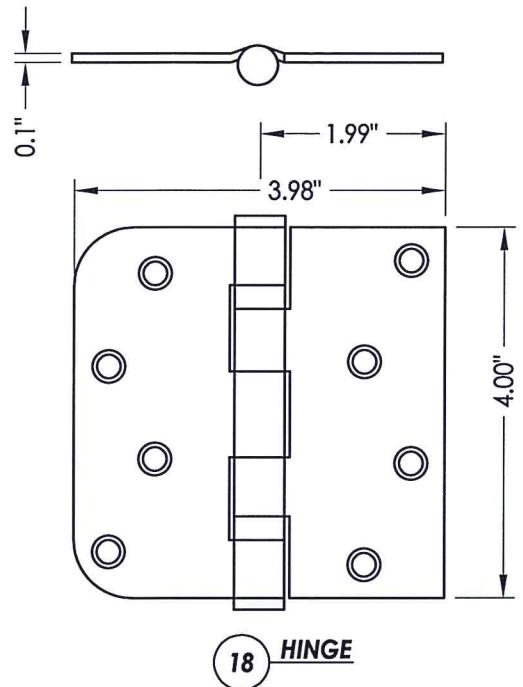
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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

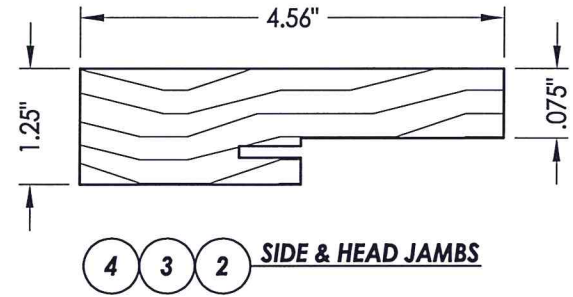
PRODUCT: TRINITY GLASS INT'L
6 8 FLUSH GLAZED
PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	2/03/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		BY

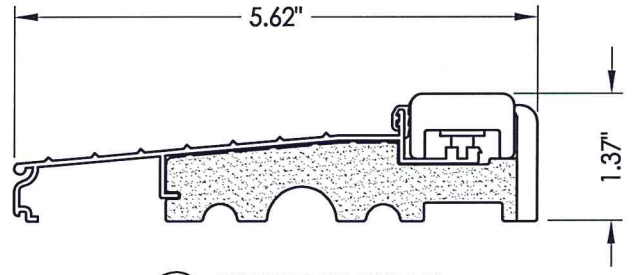
DATE: 8/29/05
SCALE: N.T.S.
DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: TX-600
SHEET 5 OF 7



18 HINGE



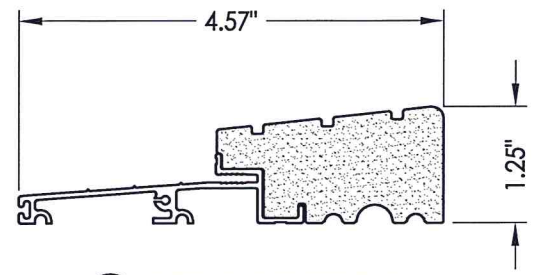
4 3 2 SIDE & HEAD JAMBS



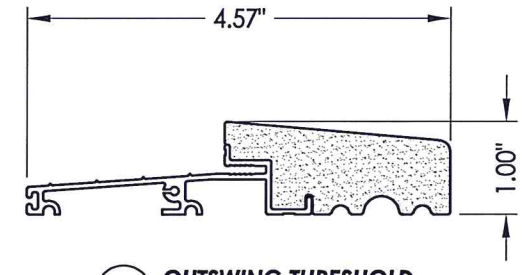
5 INSWING THRESHOLD



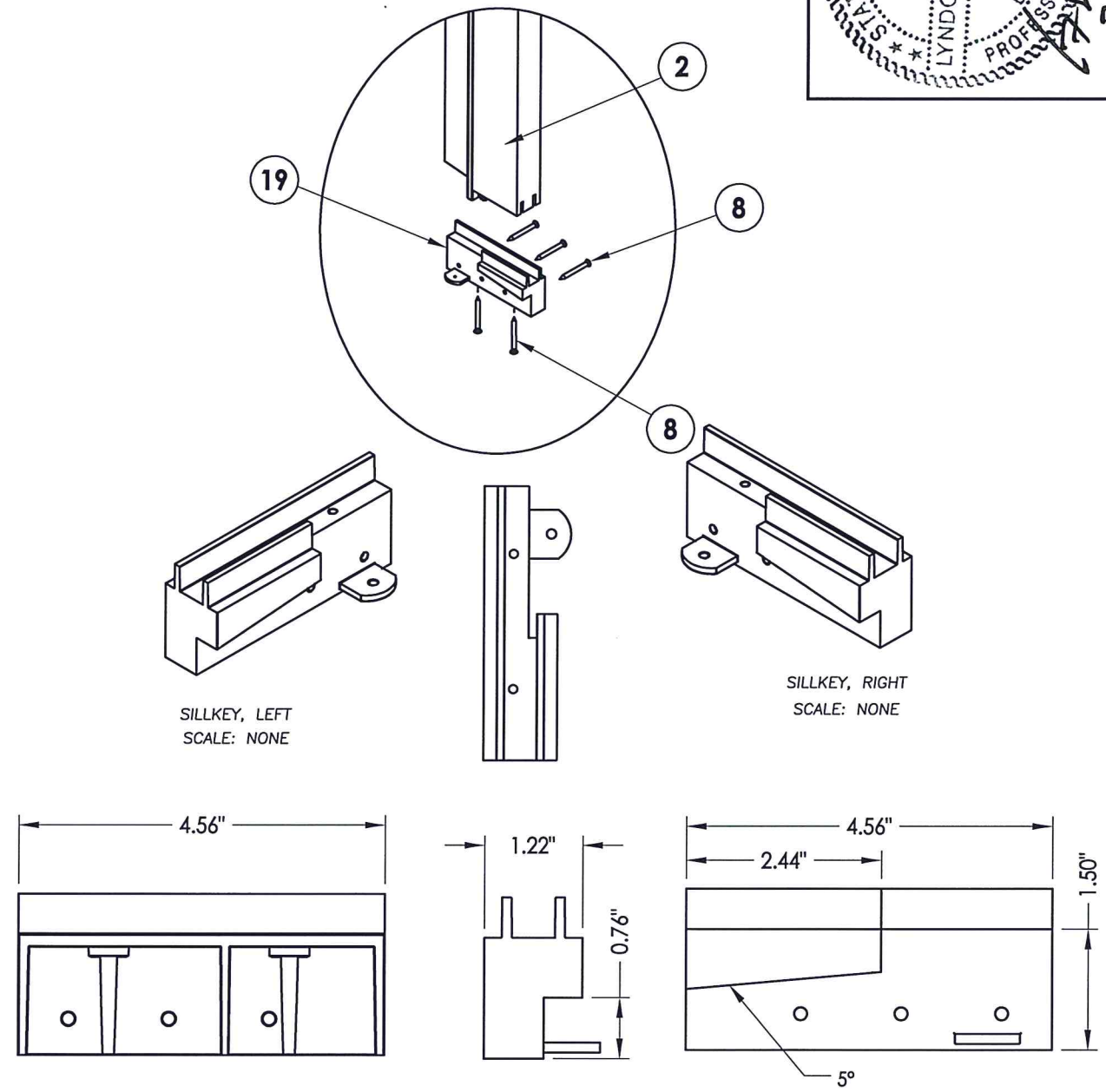
6 DOOR BOTTOM SWEEP



25 OUTSWING THRESHOLD
High-dam option



27 OUTSWING THRESHOLD



SILLKEY, LEFT
SCALE: NONE

SILLKEY, RIGHT
SCALE: NONE

19 SILLKEY DETAILS
Optional



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

PRODUCT: TRINITY GLASS INT'L
6 8 FLUSH GLAZED

PART OR ASSEMBLY: COMPONENTS

NO.	DATE	REVISIONS
3	2/03/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE

DATE: 8/29/05
SCALE: N.T.S.
DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: TX-600
SHEET 6 OF 7

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
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
2	STRIKE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD
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 4.0" HINGE MIN 0.098" THICK	STEEL
19	SILLKEY	PC/ASA
21	LOCK (SEE LOCK & DEADBOLT RATINGS CHART)	STEEL
22	DEADBOLT (SEE LOCK & DEADBOLT RATINGS CHART)	STEEL
23	STRIKE PLATE	STEEL
23A	DEADBOLT PLATE	STEEL
24	#9 X 5/8" PFH WS	STEEL
25	OUTSWING HIGH-DAM THRESHOLD ALUMINUM w/ COMPOSITE SUBSTRATE	ALUM./ COMP.
26	#9 X 1" PFH WS	STEEL
27	OUTSWING THRESHOLD ALUMINUM w/ COMPOSITE SUBSTRATE	ALUM./ COMP.
30	LATCH STILE - SG >= 0.42	LVL/PVC
31	LVL LOCK BLOCK	POPLAR
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
35	LITE FRAME	PC/ASA
36	GLAZING COMPOUND	SILICONE
39	FIBERGLASS SKIN 0.079" MIN. THICKNESS	FIBERGLASS
40	#8 X 1-1/8" SELF THREADING SCREW	STEEL
41	POLYPROPYLENE & ALUMINUM COMBINATION GLAZING SPACER	POLY./ALUM.
42	ALUMINUM & BUTYL SPACER SYSTEM	ALUM./BUTYL
43	PVC & ALUMINUM SPACER SYSTEM	PVC/ ALUM.



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PRODUCT: TRINITY GLASS INT'L
6'8 FLUSH GLAZED

PART OR ASSEMBLY:
BILL OF MATERIALS

NO.	DATE	REVISIONS
3	2/03/20	UPDATE TO 2018 IBC/IRC
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DATE: 8/29/05
SCALE: N.T.S.
DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: TX-600
SHEET 7 OF 7

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 BUILDEX TAPCON®	1/4"	1-3/4"	2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	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.