

RightConcept™

2615 S. 80th STREET TACOMA, WA 98409

FLUSH-GLAZED FIBERGLASS DOOR w/ or w/o SIDELITES OUTSWING "IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

The Right Concept Fiberglass 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:

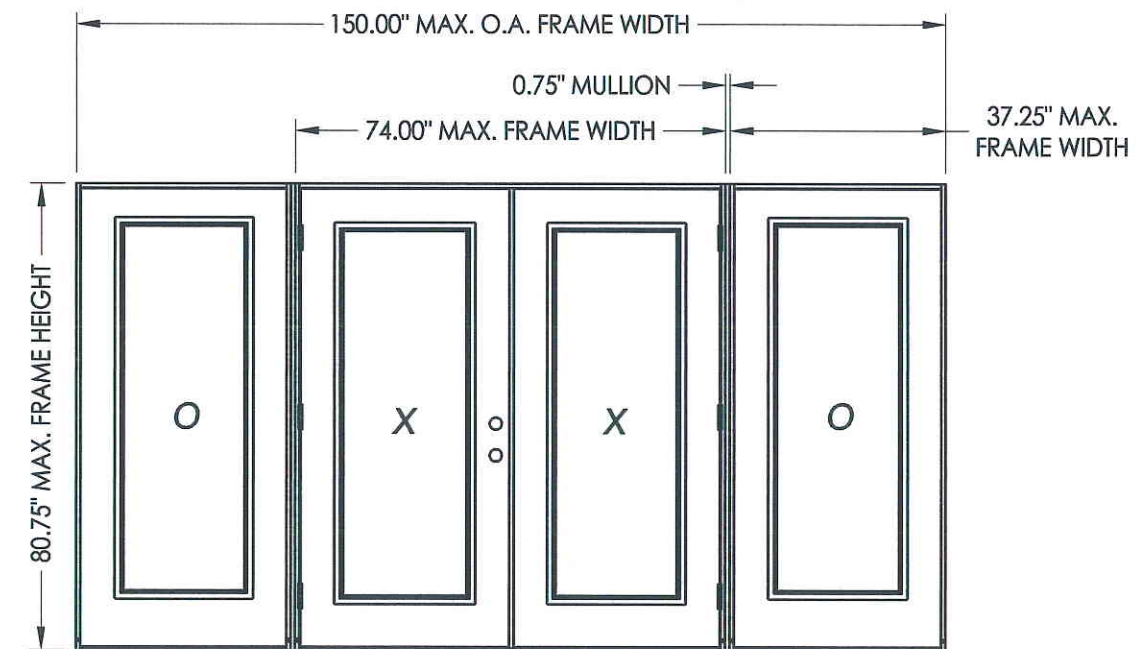
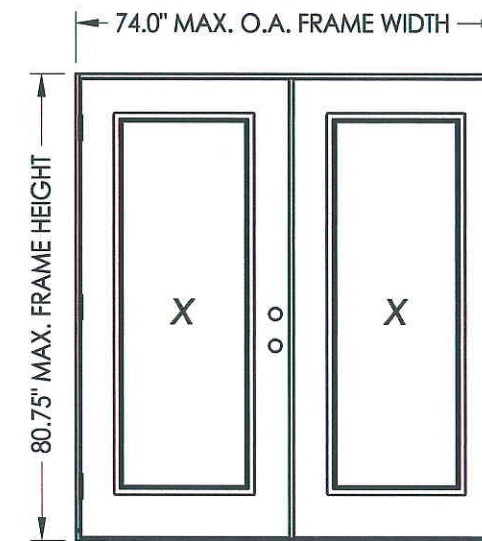
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. This system has been tested and evaluated as a large missile impact protective system for installation in the Seaward, Inland I and Inland II areas. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996.
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

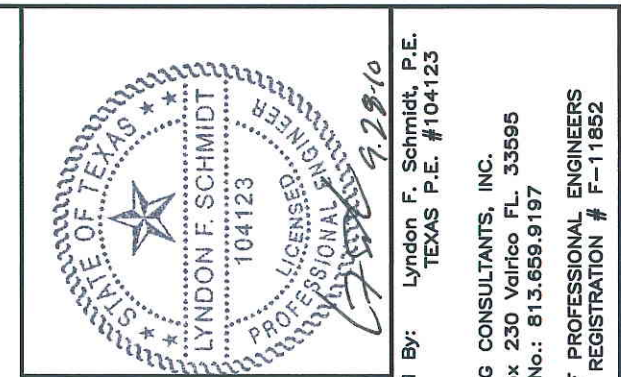
1. Testing per TAS 201, 202 & 203-94; AAMA/WDMA/CSA 101/I.S.2/A440-05, ASTM E 1886/1996:
Testing Evaluation Laboratories, Inc. test report(s) #: TEL 06-0918-1, TEL 01370051 & TEL 08-1370021, 21-IC.
2. Calculations (Anchoring and Glass load resistance report ASTM E1300-04) prepared by Lyndon F. Schmidt, P.E.
3. Certificate of Participation issued by the National Accreditation and Management Institute, Inc., certifying that RightConcept is manufacturing products within a Quality Assurance program.

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CONFIGURATION	MAX. O.A. FRAME DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
XX	74.0" x 80.75"	21.0" x 63.0"	G1, G2 & G3	+55.0	-55.0
OXXO W/ MULL. REINF.	150.0" x 80.75"	21.0" x 63.0"	G1, G2 & G3	+55.0	-55.0
OXXO W/O MULL. REINF.	148.5" x 80.75"	21.0" x 63.0"	G1, G2 & G3	+55.0	-55.0



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

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

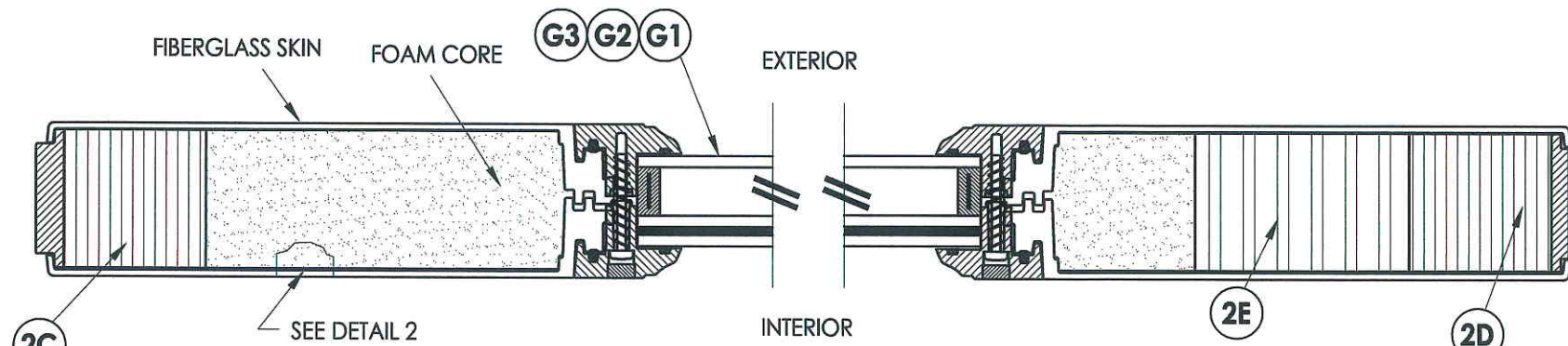
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: RightConcept
6'8" FLUSH-GLAZED

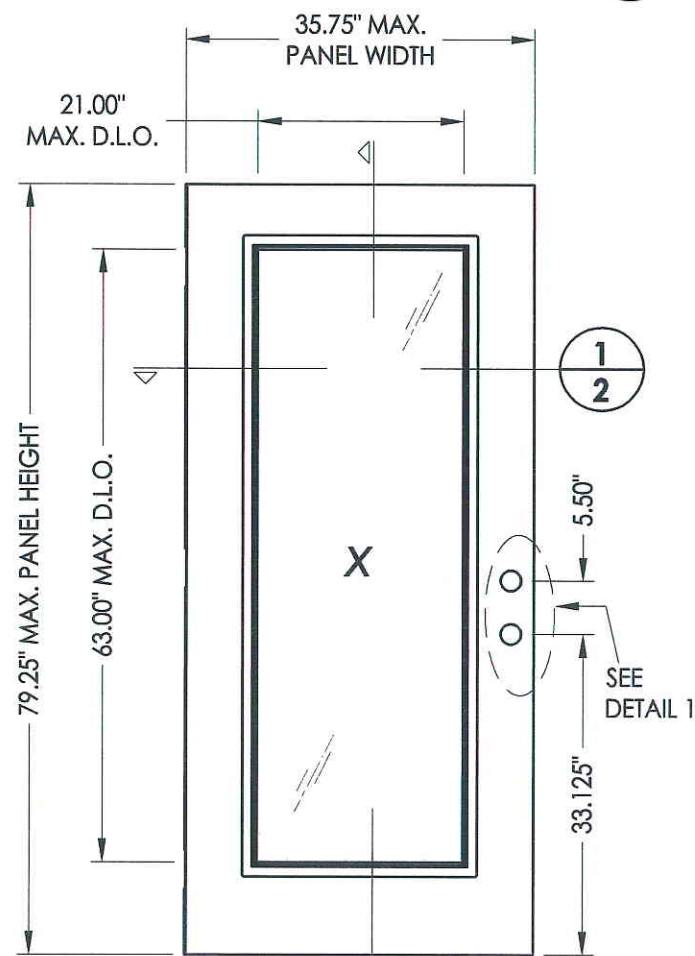
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS

DATE: 9/21/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4112
SHEET 1 OF 13

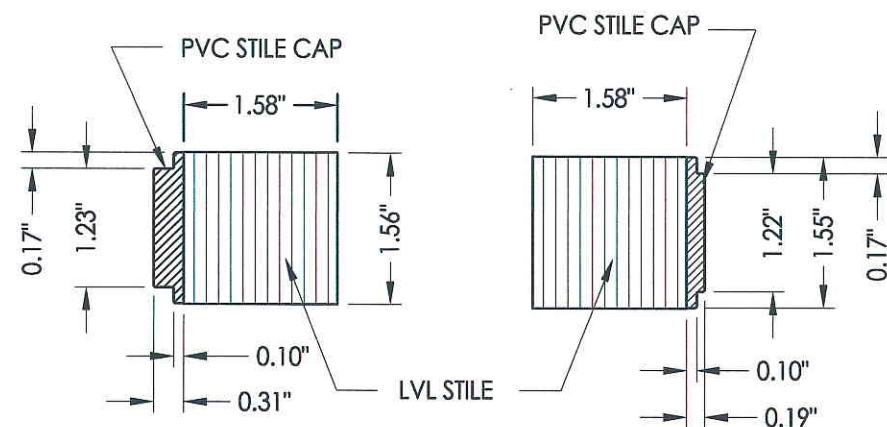


1
2 HORIZONTAL CROSS SECTION



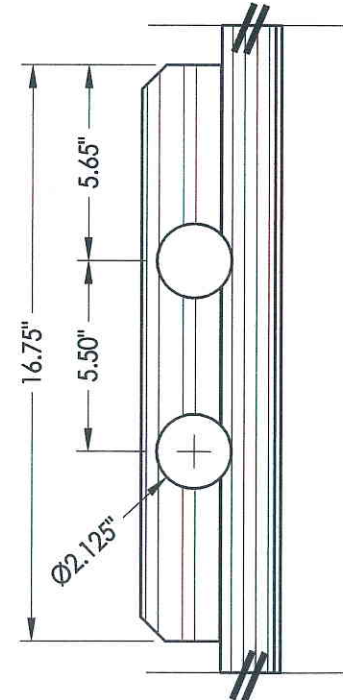
7 GLAZED DOOR PANEL
Fiberglass

FIBERGLASS DOOR SKIN: MIN. 0.079" THK.
FOAM CORE MATERIAL: POLYURETHANE

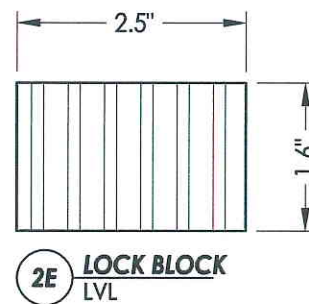


2C HINGE STILE
PVC/LVL

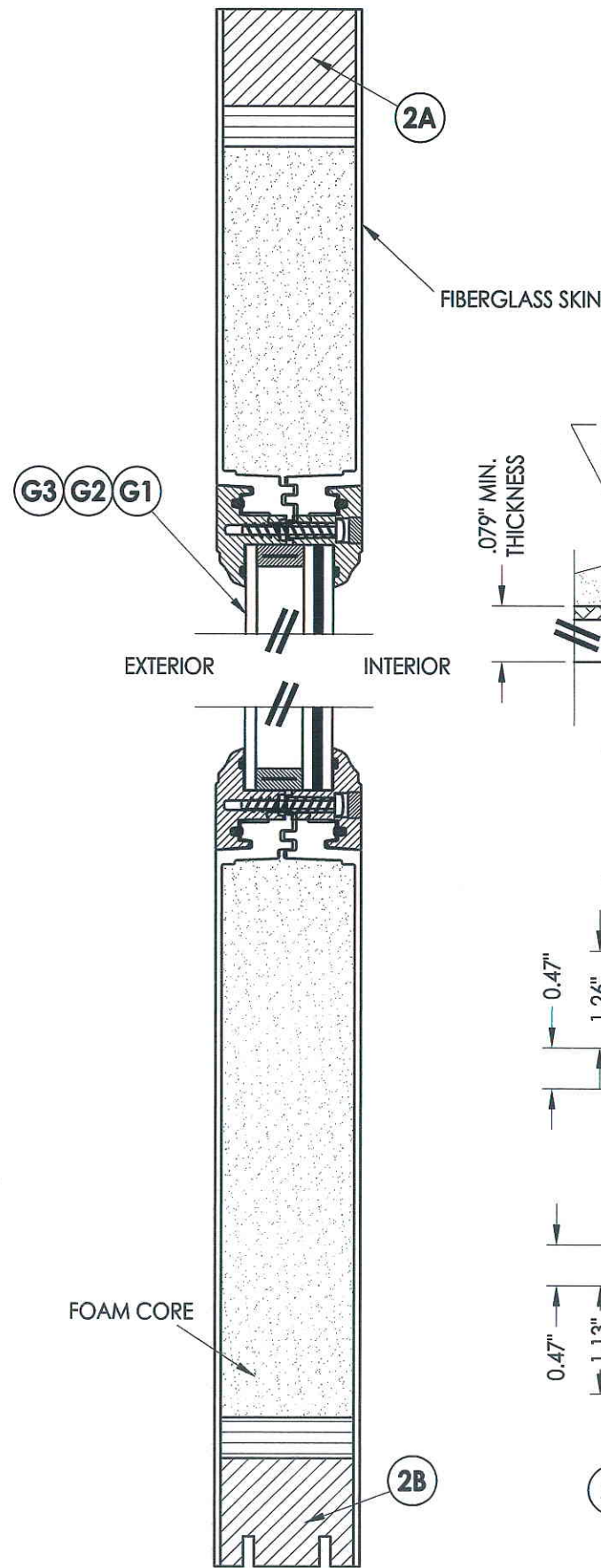
2D LATCH STILE
PVC/LVL



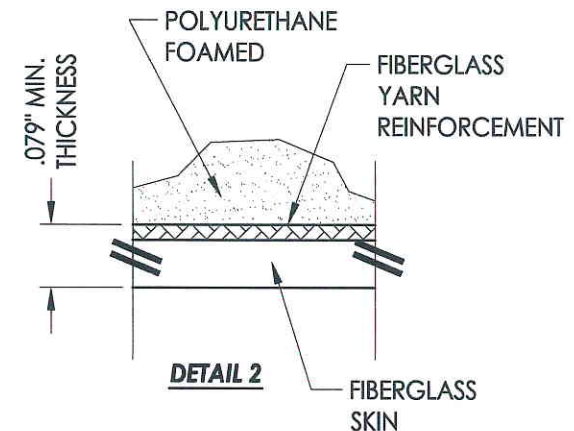
DETAIL 1



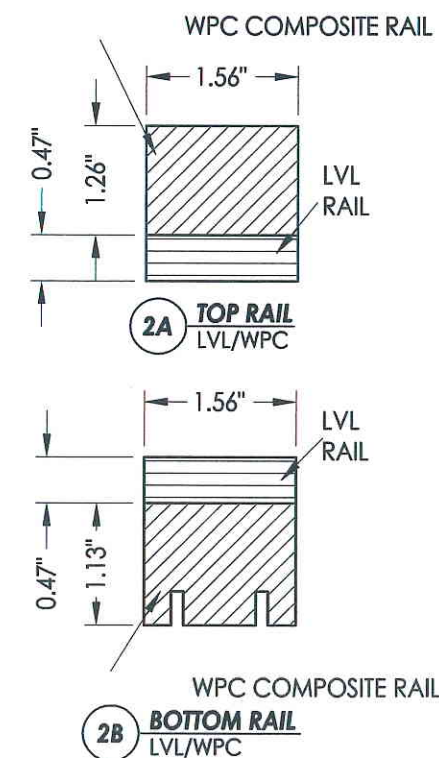
2E LOCK BLOCK
LVL



2
2 VERTICAL CROSS SECTION

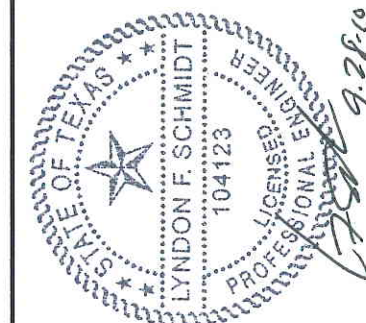


DETAIL 2



2A TOP RAIL
LVL/WPC

2B BOTTOM RAIL
LVL/WPC



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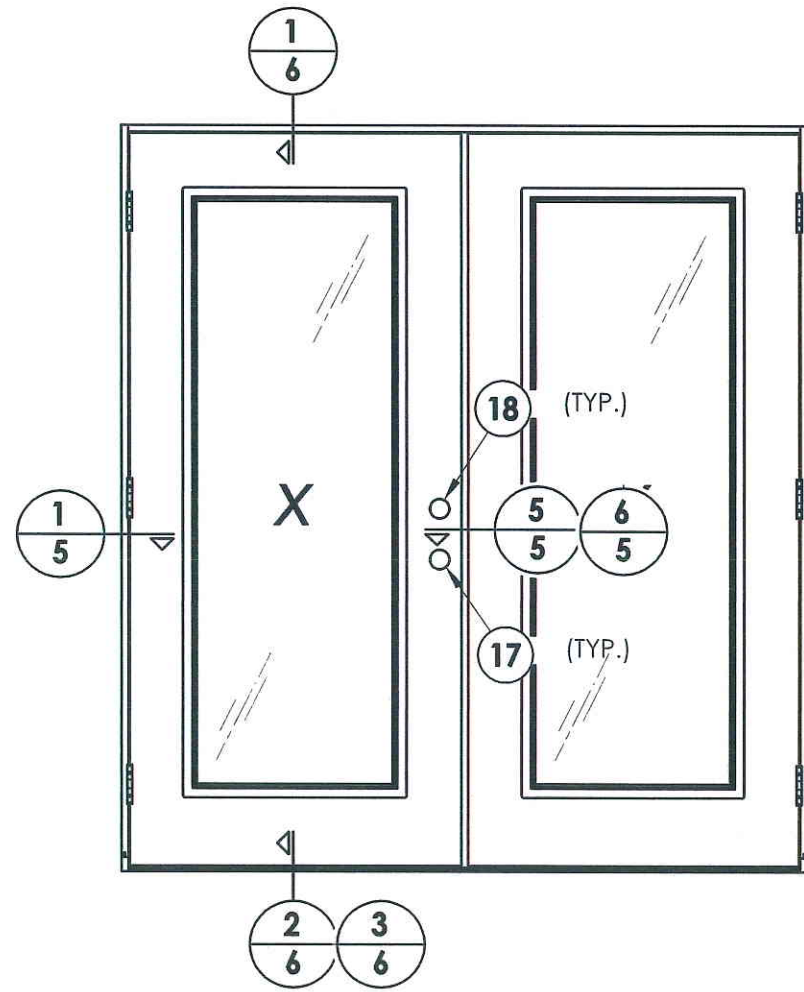
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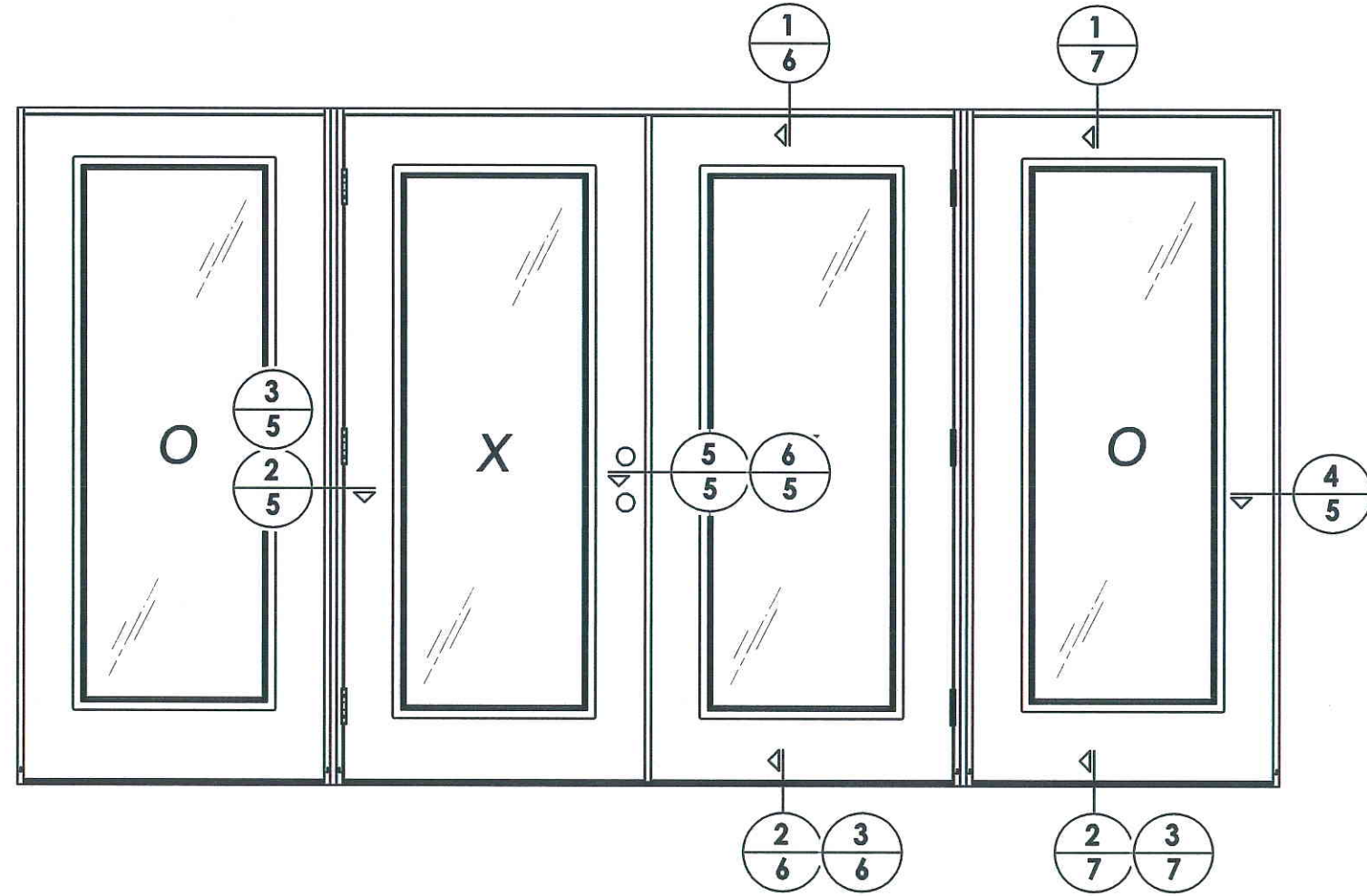
PRODUCT:	RightConcept 6'8" FLUSH-GLAZED
PART OR ASSEMBLY:	DOOR PANEL CONSTRUCTION DETAILS

NO.	DATE	REVISIONS	BY

DATE:	9/21/10
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4112
SHEET	2 OF 13

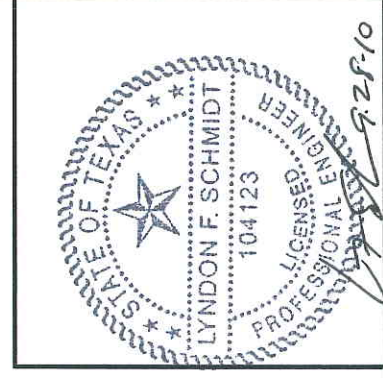


ELEVATION (XX)



ELEVATION (OXXO)

HARDWARE CHART		
MANUFACTURER	MODEL	ITEM #
KWIKSET	LOCK: 660 Combo	17
	DEADBOLT: 660 Combo	18
KWIKSET	LOCK: 740	17
	DEADBOLT: 780	18



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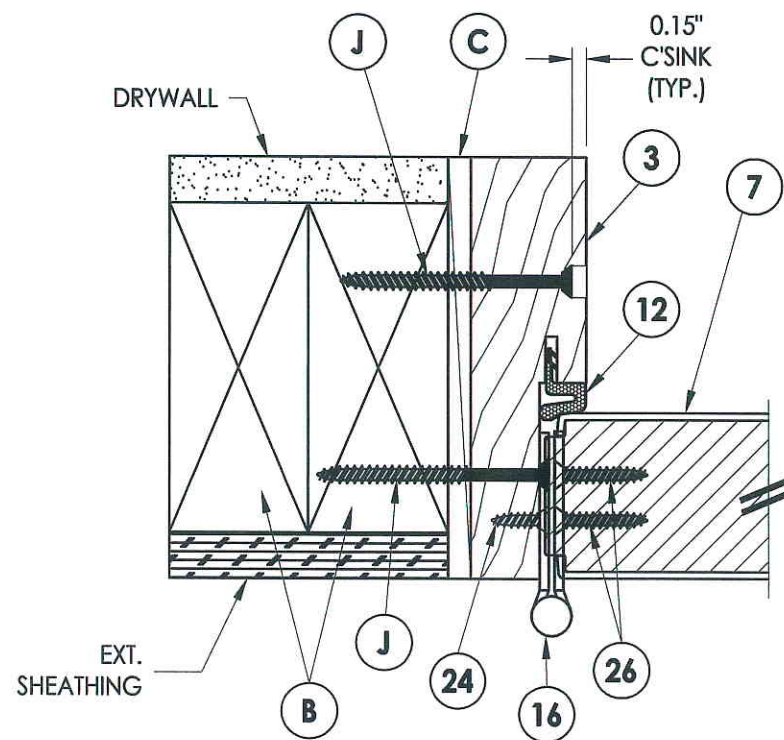
PRODUCT: RightConcept
6'8" FLUSH-GLAZED

PART OR ASSEMBLY: ELEVATIONS

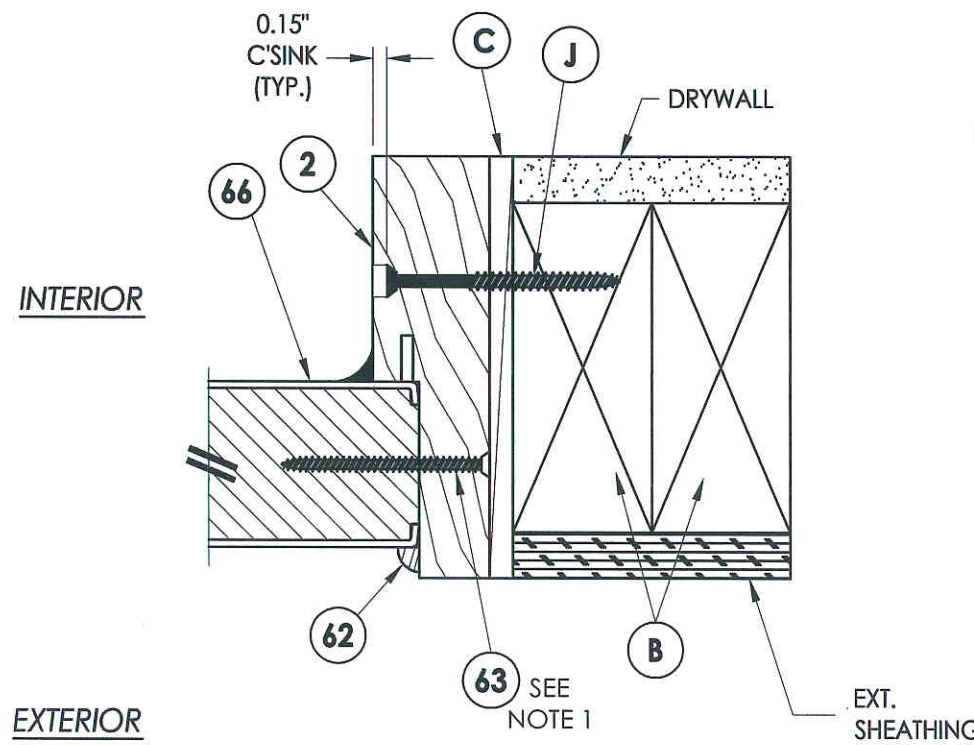
NO.	DATE	REVISIONS	BY

DATE: 9/21/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4112
SHEET 4 of 13

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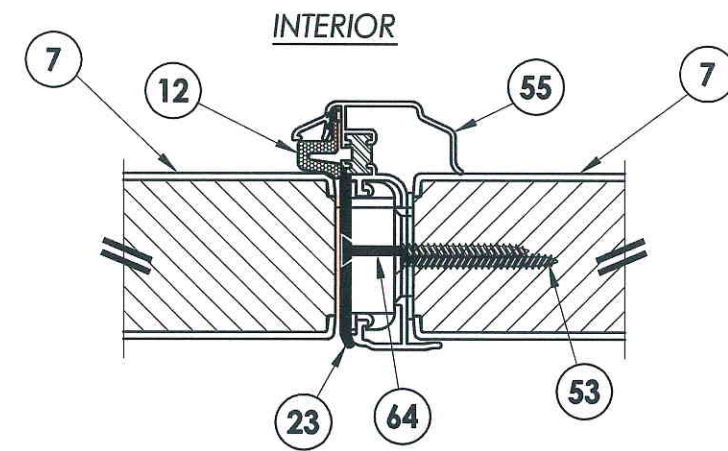


1 HORIZONTAL CROSS SECTION
5

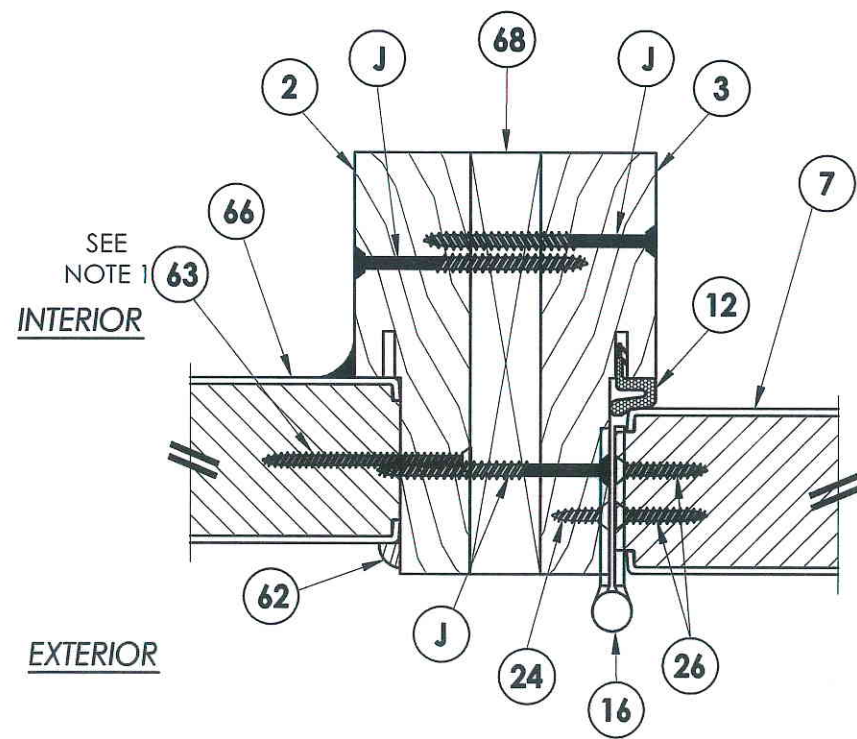


4 HORIZONTAL CROSS SECTION
5

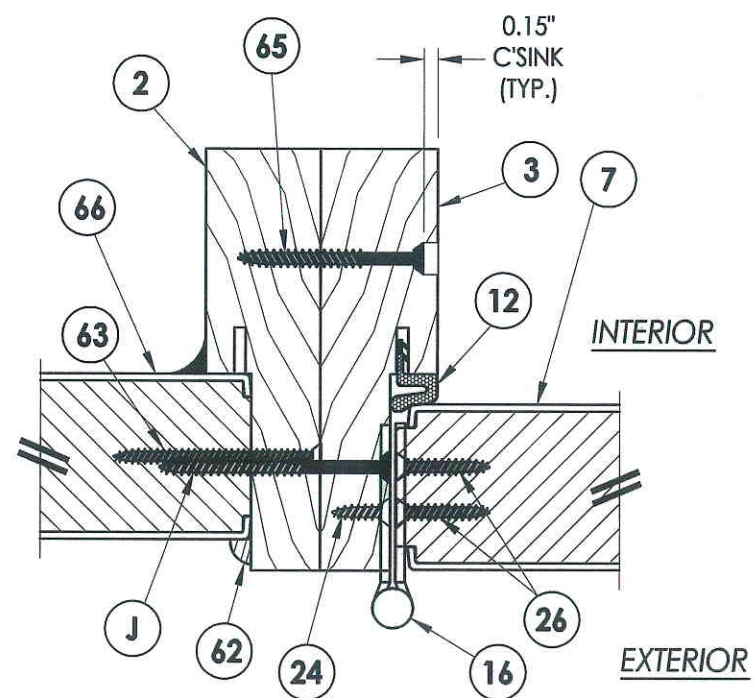
NOTE:
1. Sidelite screws (item #63) located at 6" from each end then 3 equal spaces for a total of 4 screws.



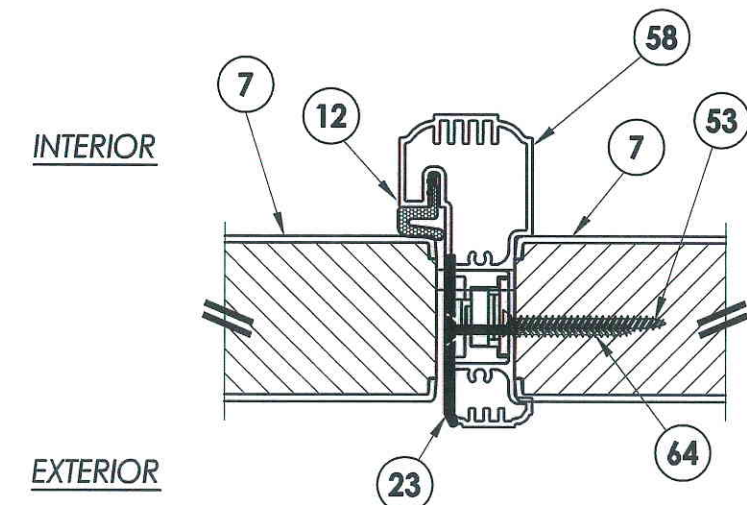
6 HORIZONTAL CROSS SECTION
5 Endura astragal



2 HORIZONTAL CROSS SECTION
5 W/ 1x mullion reinforcement



3 HORIZONTAL CROSS SECTION
5



5 HORIZONTAL CROSS SECTION
5 Astragal by TRC

Lyndon F. Schmidt, P.E.
Texas P.E. #104123

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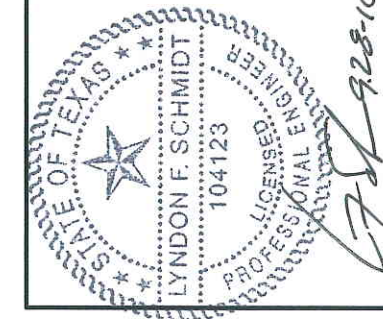
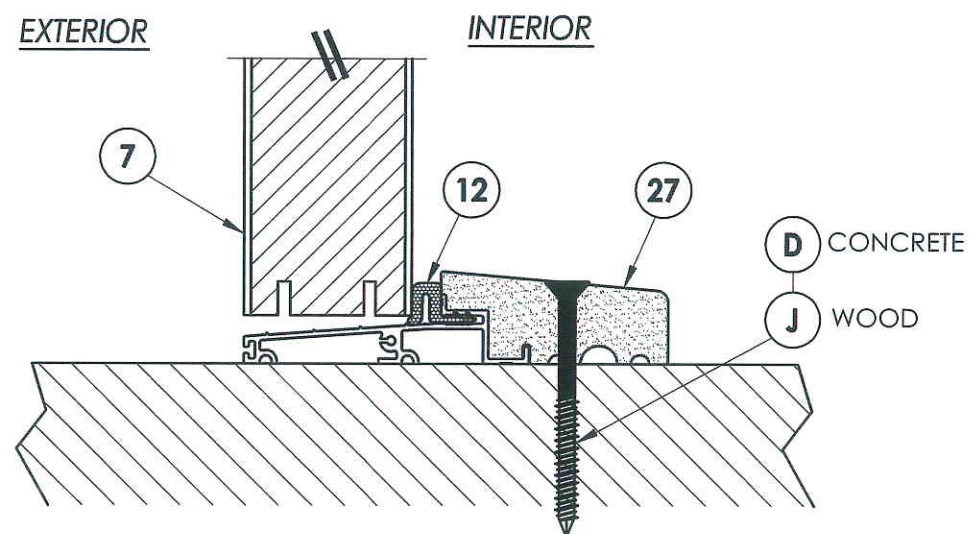
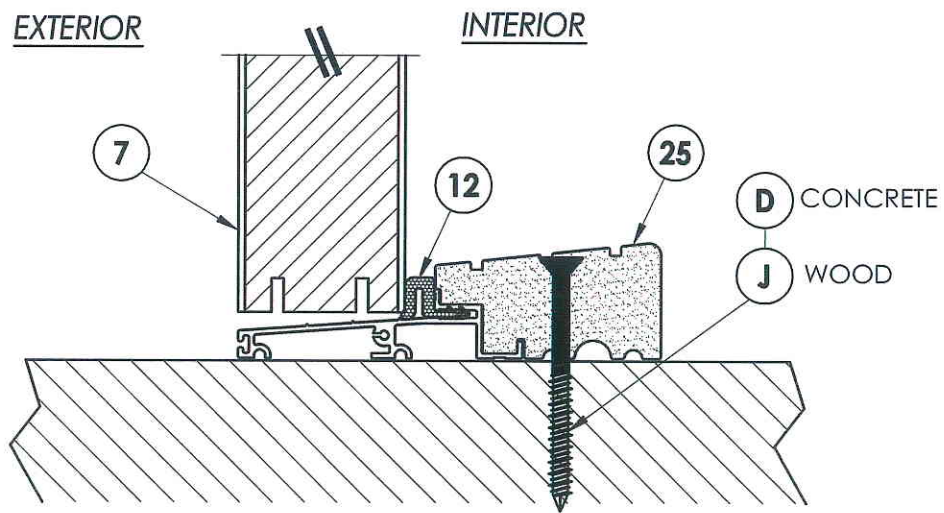
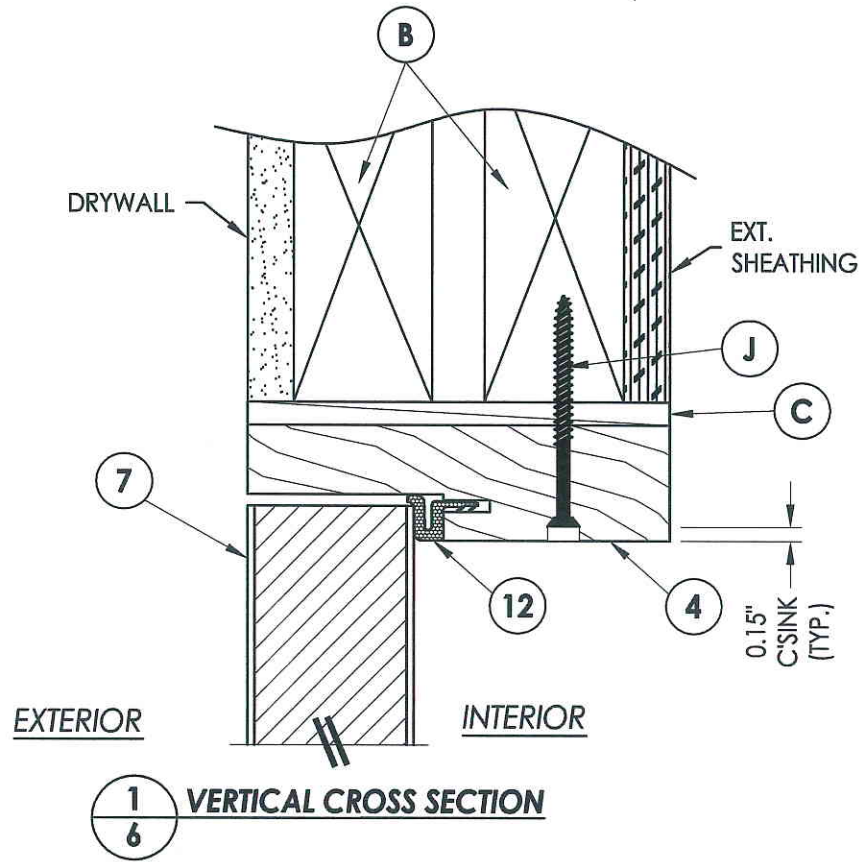
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: RightConcept
6'8 FLUSH-GLAZED
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 9/21/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4112
SHEET 5 OF 13

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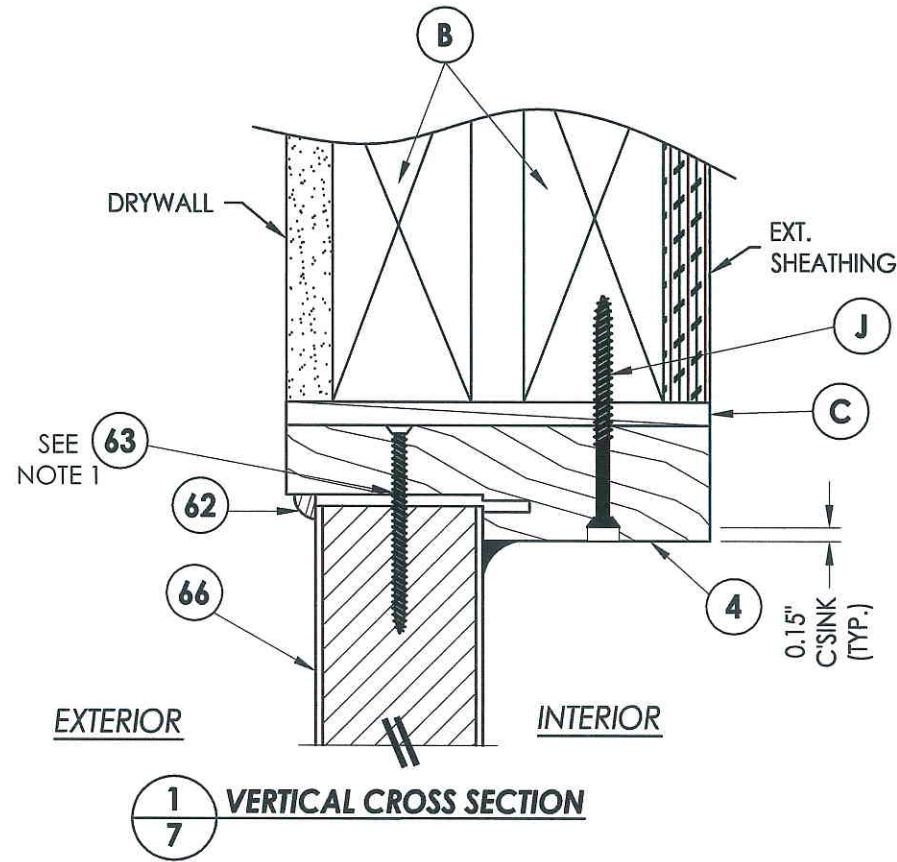
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: RightConcept
6'8 FLUSH-GLAZED

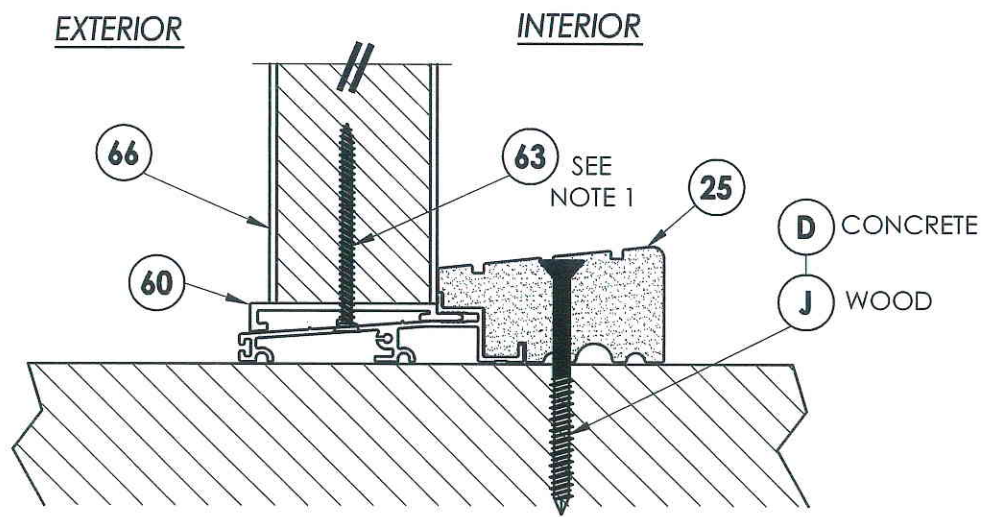
PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

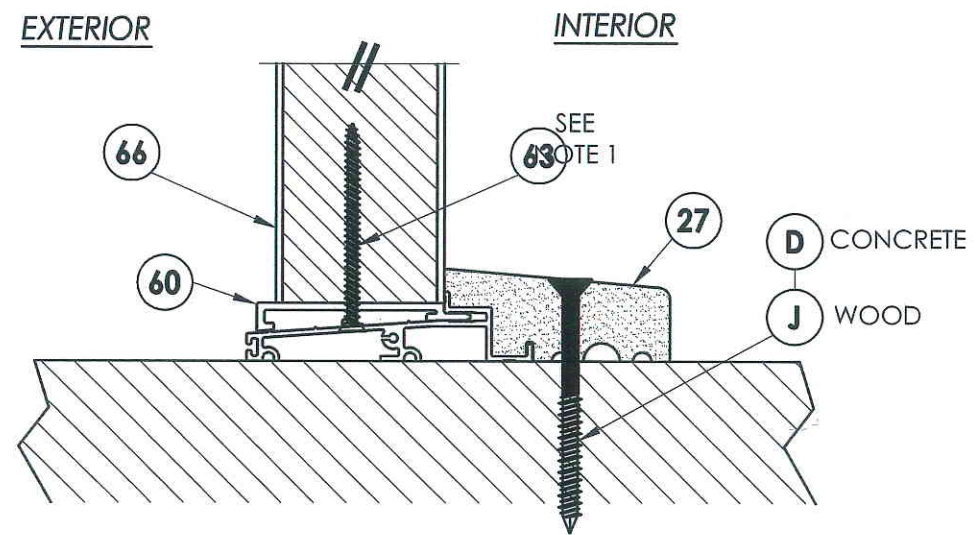
DATE: 9/21/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4112
SHEET 6 OF 13



1
7 VERTICAL CROSS SECTION



2
7 VERTICAL CROSS SECTION
Outswing sill - high dam



3
7 VERTICAL CROSS SECTION
Outswing sill

NOTE:

- Sidelite screws (item #63) located at 3" from each end and on center line.



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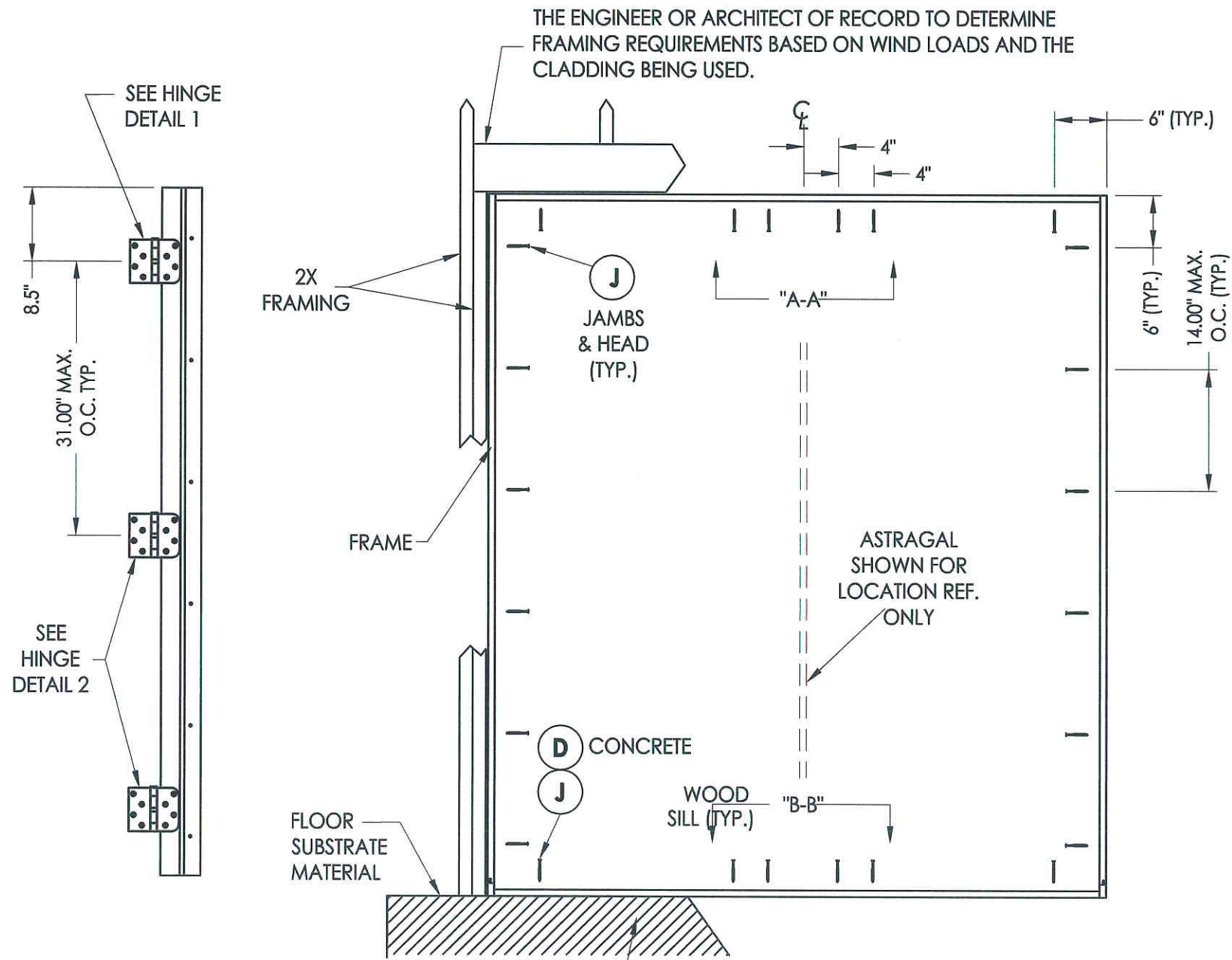
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: RightConcept
6'8 FLUSH-GLAZED

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

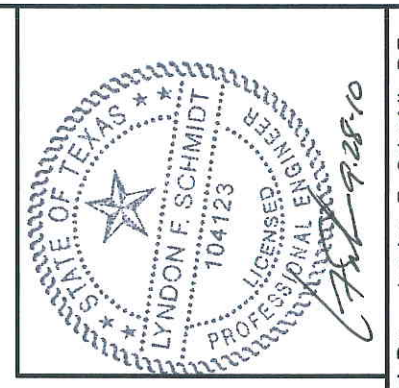
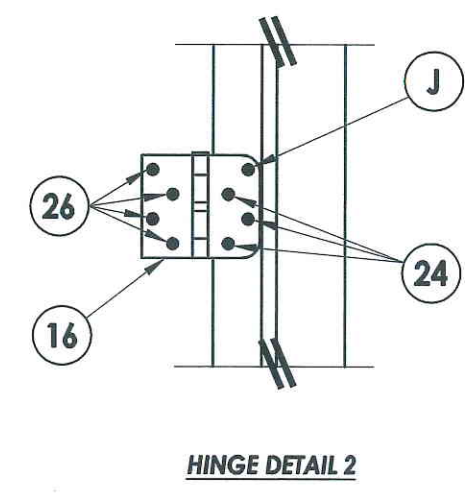
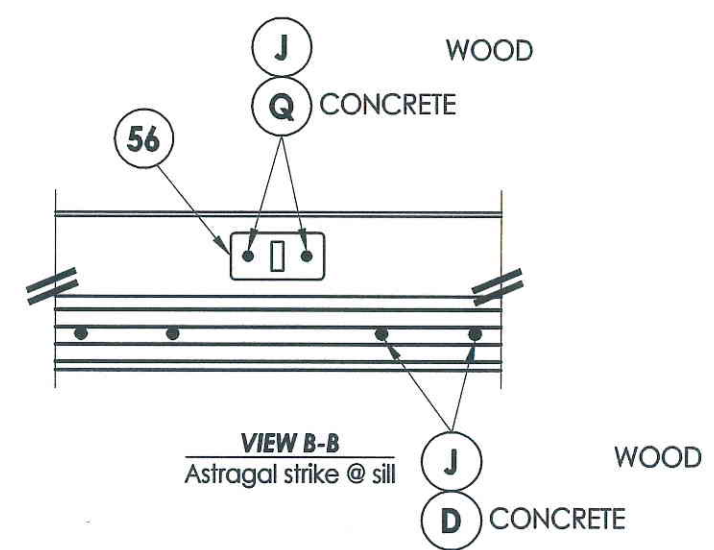
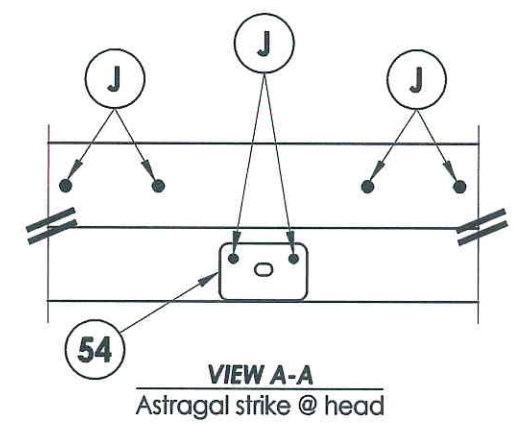
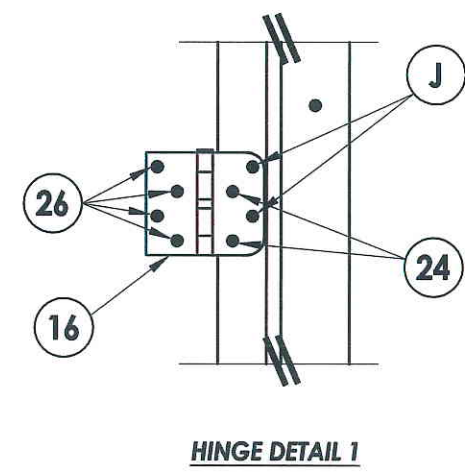
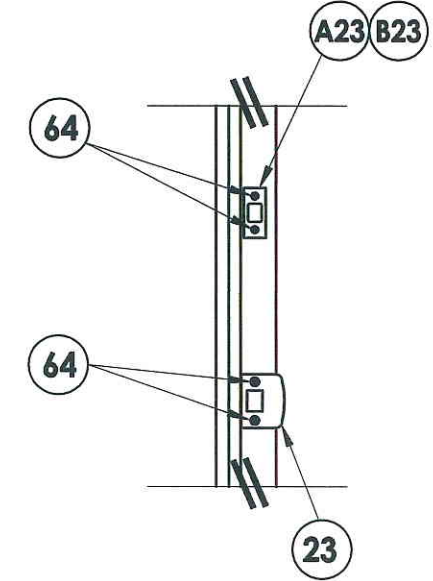
NO.	DATE	BY	REVISIONS

DATE: 9/21/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4112
SHEET 7 OF 13



HINGE JAMB

SEE HINGE DETAIL 2



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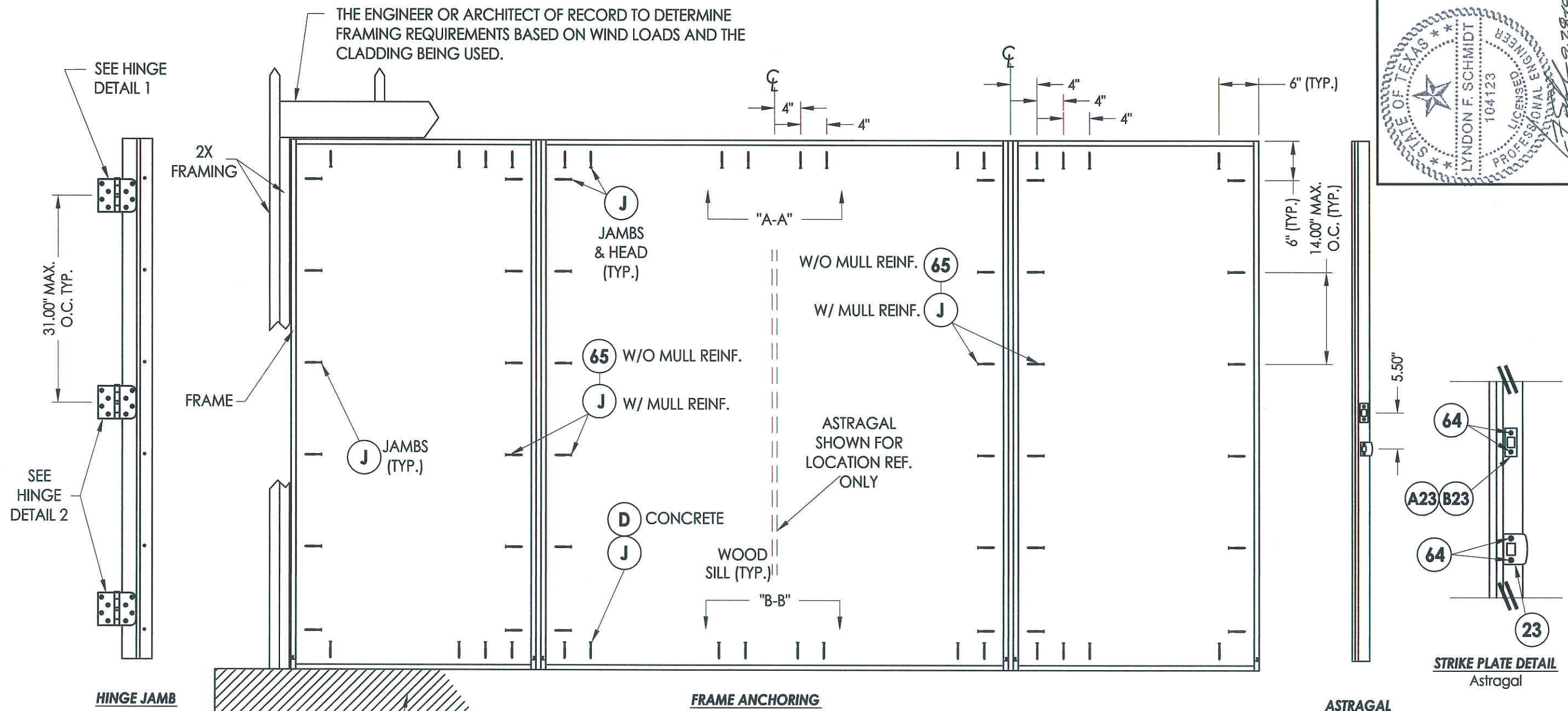
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: RightConcept
6'8" FLUSH-GLAZED

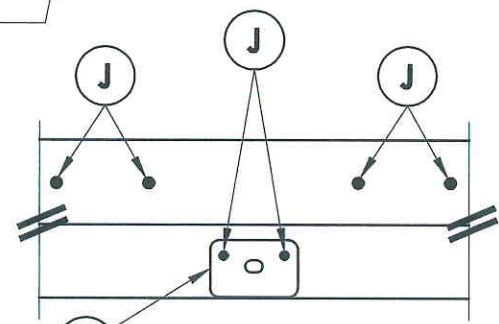
PART OR ASSEMBLY:
FRAME ANCHORING (XX)

NO.	DATE	BY	REVISIONS

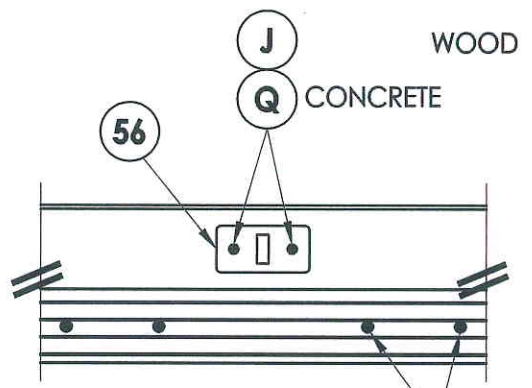
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4112
SHEET 8 of 13



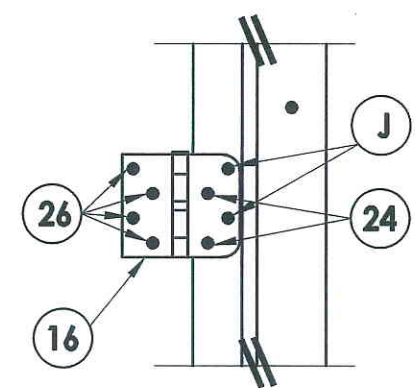
FLOOR SUBSTRATE MATERIAL
 CONCRETE (MIN. 3000 PSI)
 WOOD (S.G. >= 0.42)



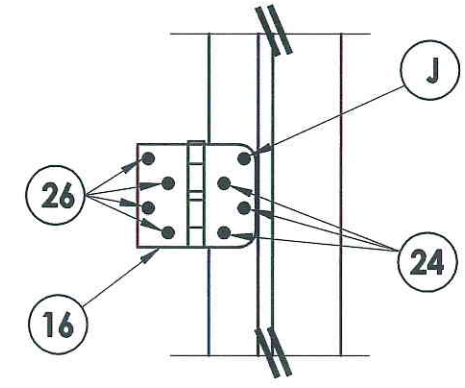
VIEW A-A
 Astragal strike @ head



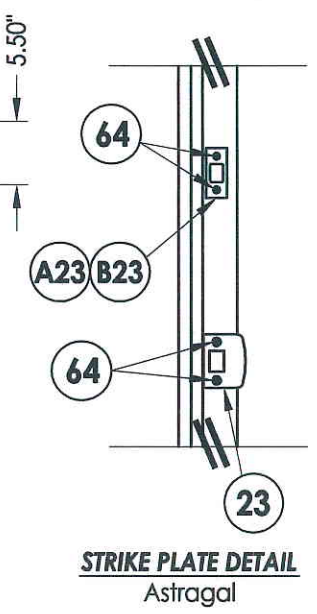
VIEW B-B
 Astragal strike @ sill



HINGE DETAIL 1



HINGE DETAIL 2



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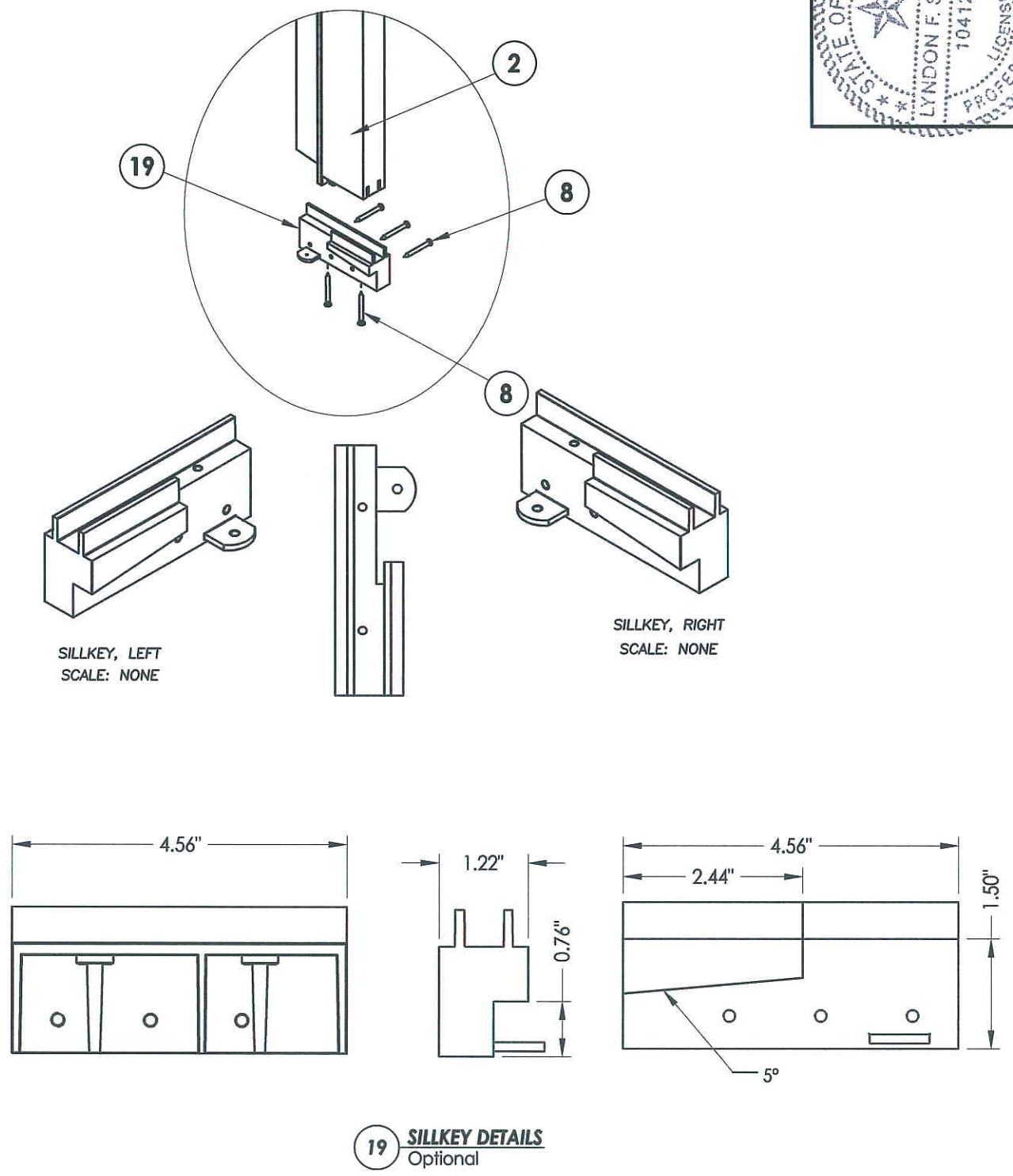
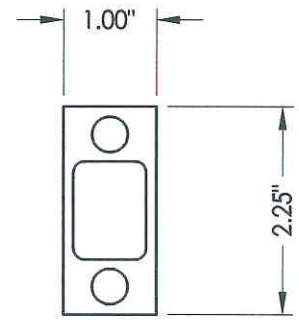
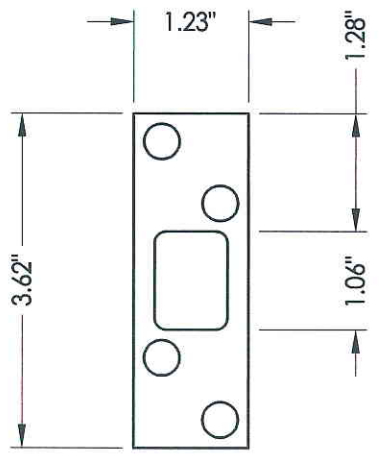
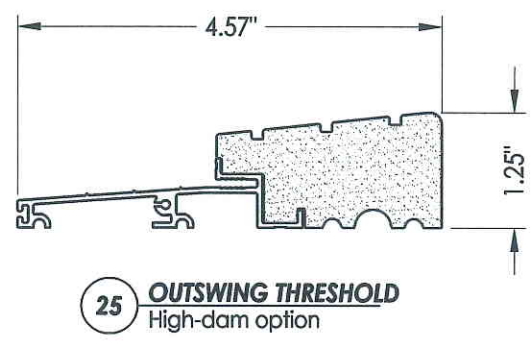
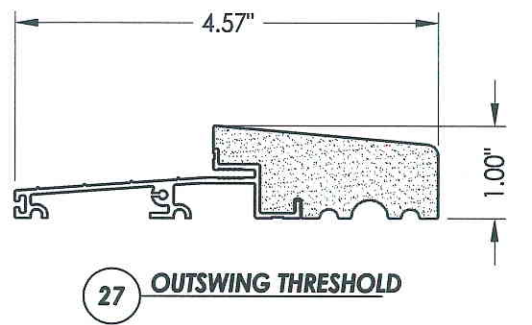
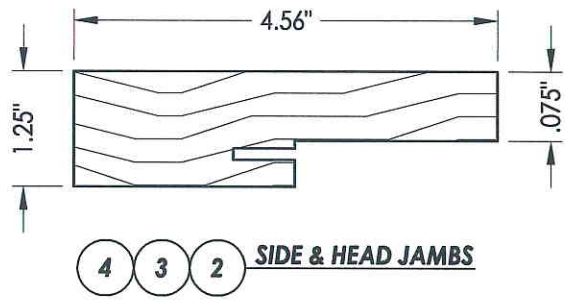
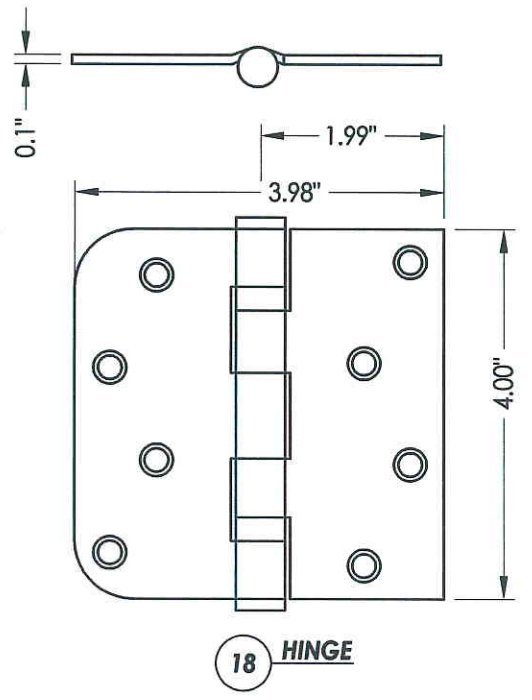
PRODUCT: RightConcept
 6'8 FLUSH-GLAZED

PART OR ASSEMBLY:
 FRAME ANCHORING (OXXO)

NO.	DATE	BY	REVISIONS

DATE: 9/21/10
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4112
 SHEET 9 OF 13

R:\A - Projects\Project Folders\Proj 1001-1100\p1098\RWBC Drawings\TX-4110.dwg, 10.3



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CERTIFICATE OF REGISTRATION # F-11852

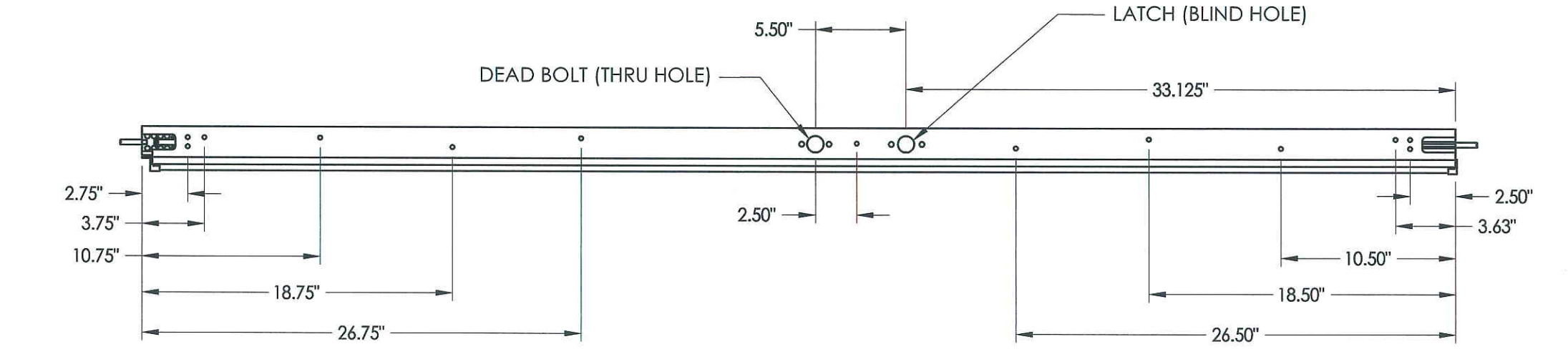
PRODUCT: RightConcept
6'8 FLUSH-GLAZED

PART OR ASSEMBLY: COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 9/21/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4112
SHEET 10 of 13

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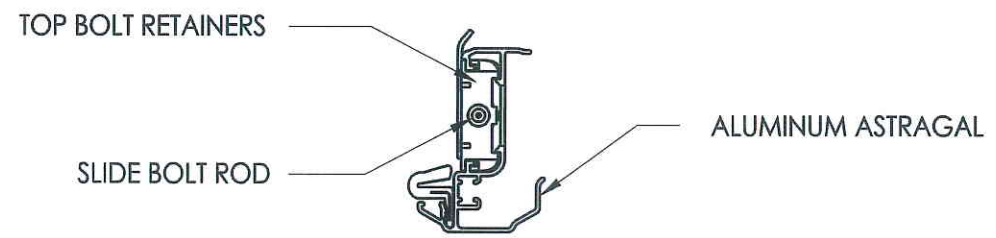
TOP

BOTTOM

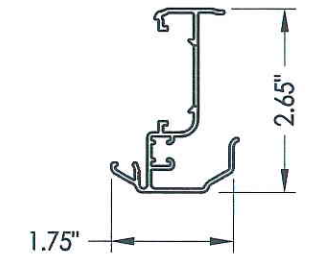


6'8 ALUMINUM ASTRAGAL ASSEMBLY
By Endura Product

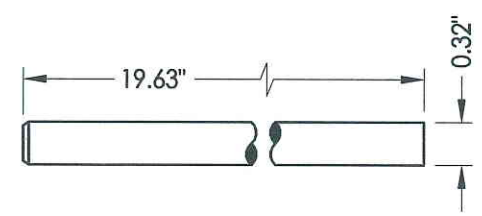
A-A



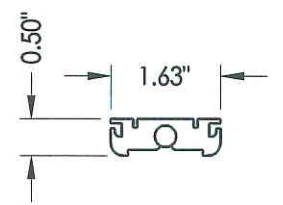
VIEW A-A
Aluminum Astragal Assembly



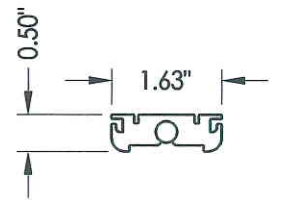
51 ALUMINUM ASTRAGAL
By Endura Products



SLIDE BOLT ROD
MATL: Steel



TOP BOLT RETAINER
MATL: 9-3/4\"/>



TOP BOLT RETAINER
MATL: 4-3/4\"/>



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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

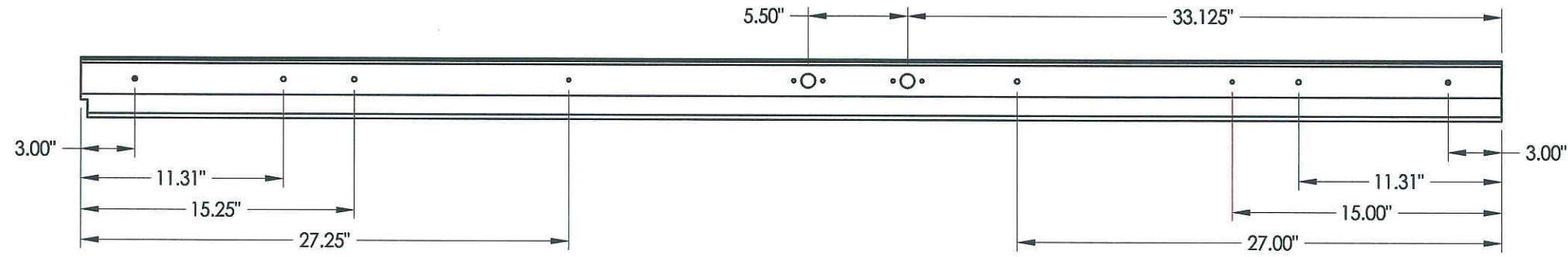
PRODUCT: RightConcept
6'8 FLUSH-GLAZED

PART OR ASSEMBLY:
ENDURA ASTRAGAL DETAILS

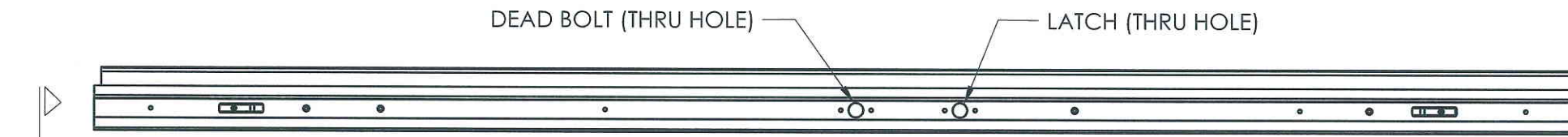
NO.	DATE	BY	REVISIONS

DATE: 9/21/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4112
SHEET 11 OF 13

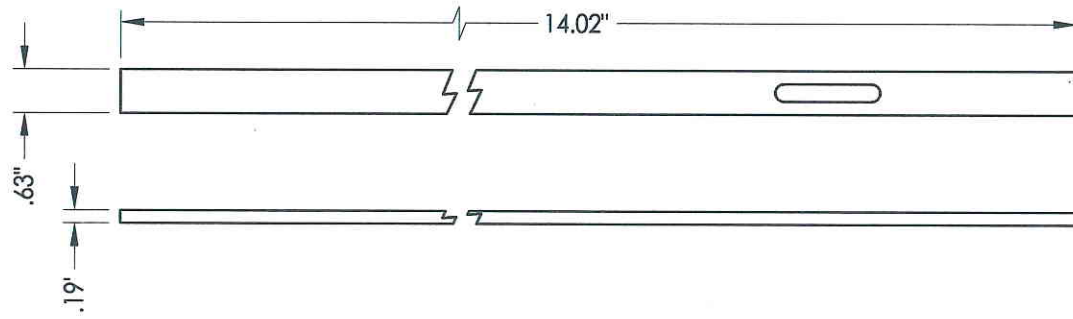
TOP



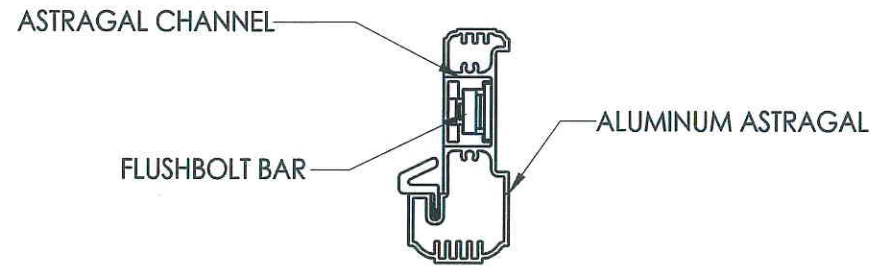
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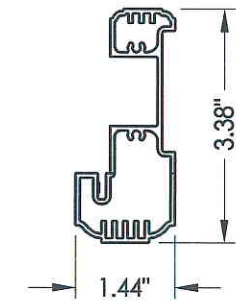
6'8 ALUMINUM ASTRAGAL ASSEMBLY
By TRC



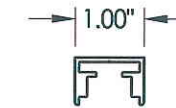
FLUSHBOLT BAR
MATL: Steel



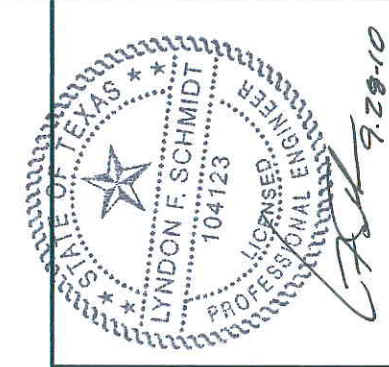
VIEW B-B
Aluminum Astragal Assembly



58 ALUMINUM ASTRAGAL
BY TRC



ASTRAGAL CHANNEL
BY TRC



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:	RightConcept 6'8 FLUSH-GLAZED
PART OR ASSEMBLY:	TRINITY ASTRAGAL DETAILS

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DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4112
SHEET	12 OF 13

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW	STEEL
J	#10 X 2-1/2" PFH WOOD SCREW	STEEL
Q	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
2	STRIKE JAMB - FINGER-JOINT PINE (4 - 9/16") - SG >= 0.42	WOOD
3	HINGE JAMB - FINGER-JOINT PINE (4 - 9/16") - SG >= 0.42	WOOD
4	HEAD - FINGER-JOINT PINE (4 - 9/16") - SG >= 0.42	WOOD
7	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
8	#6 X 1-1/4 PFH DRYWALL SCREW	STEEL
9	#9 X 2-1/4" PFH WOOD SCREW	STEEL
12	WEATHER STRIP QEBD650 Q-LON	-
16	3.983" X 4.0" HINGE MIN 0.098" THICK	STEEL
19	SILLKEY (OPTIONAL)	PC/ASA
23	STRIKE PLATE	STEEL
A23	DEADBOLT PLATE (2-HOLE)	STEEL
B23	DEADBOLT PLATE (4-HOLE)	STEEL
24	#9 X 5/8" PFH WS	STEEL
25	OUTSWING HIGH-DAM THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
26	#9 X 1.0" PFH WS	STEEL
27	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
43	PVC & ALUMINUM SPACER SYSTEM	PVC/ ALUM.
51	ASTRAGAL BY ENDURA PRODUCTS	ALUMINUM
53	#8 X 1-3/4" PFH SMS	STEEL
54	ASTRAGAL STRIKE @ HEAD	STEEL
56	ASTRAGAL STRIKE @ SILL	STEEL
58	ASTRAGAL BY TRC	ALUMINUM
60	SIDELITE SPACER - OUTSWING	PVC
62	QUARTER ROUND	WOOD
63	#9 x 2-1/4" PFH SCREW	STEEL
64	#8 x 2" PFH SCREW	STEEL
66	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
68	1X MULLION REINFORCEMENT SG >= 0.42	WOOD

CONCRETE ANCHOR NOTES:

- Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
- 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.
- Concrete anchor table:

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



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