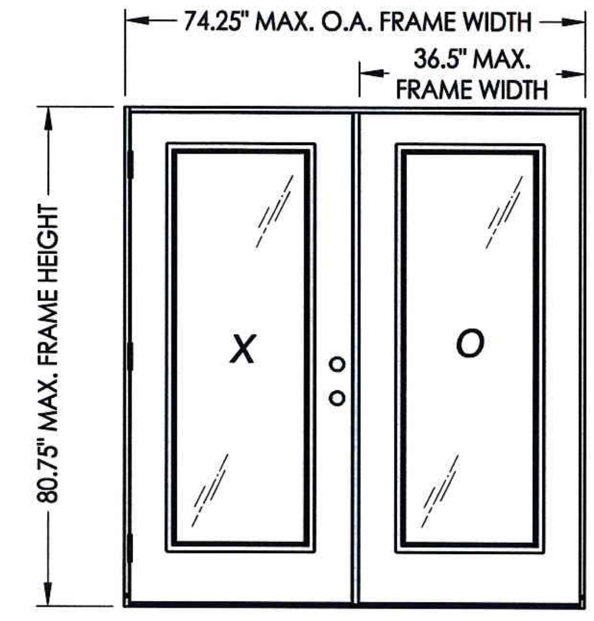
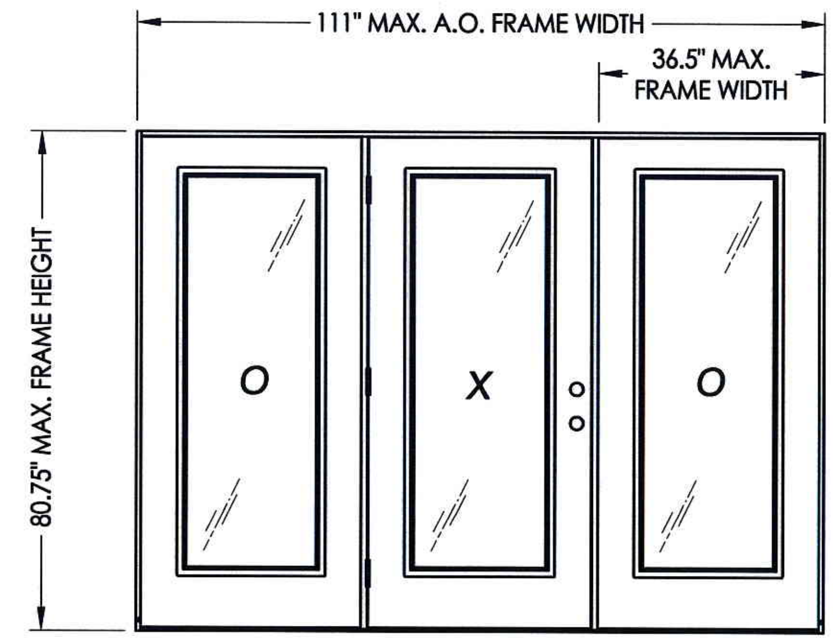
Trinity Glass
INTERNATIONAL
4621 192nd STREET EAST TACOMA, WA 98446

GLAZED FIBERGLASS SINGLE DOOR w/ SIDELITE(S)

OUTSWING "IMPACT"



CONTINUOUS HEADER AND SILL



CONTINUOUS HEADER AND SILL

EVALUATED FOR USE IN THE STATE OF TEXAS

The Trinity 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" as defined in ASTM E 1996.
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.

CONFIGURATION	MAX. FRAME DIMENSION	JAMB TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
OX/XO	74.25" x 80.75"	WOOD	+60.0	-70.0
		FIBERGLASS/COMP	+55.0	-55.0
OXO	111.0" x 80.75"	WOOD	+55.0	-55.0
		FIBERGLASS/COMP	+55.0	-55.0

TABLE OF CONTENTS

STATE OF TEXAS LYNDON F. SCHMIDT 104123 LICENSED PROFESSIONAL ENGINEER
6.4.12

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

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

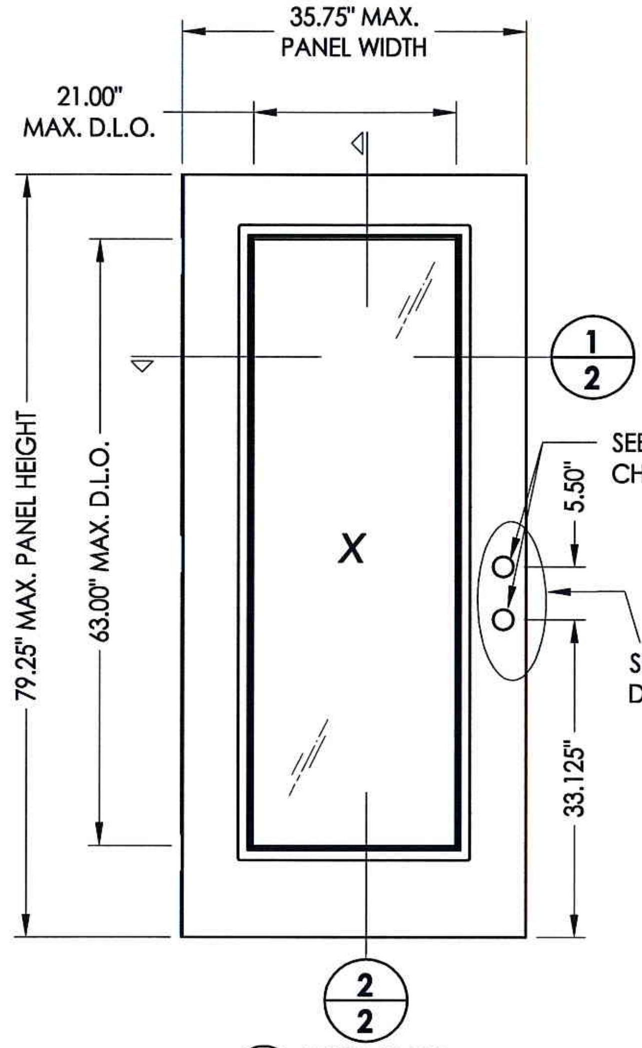
REVISIONS

NO.	DATE	BY

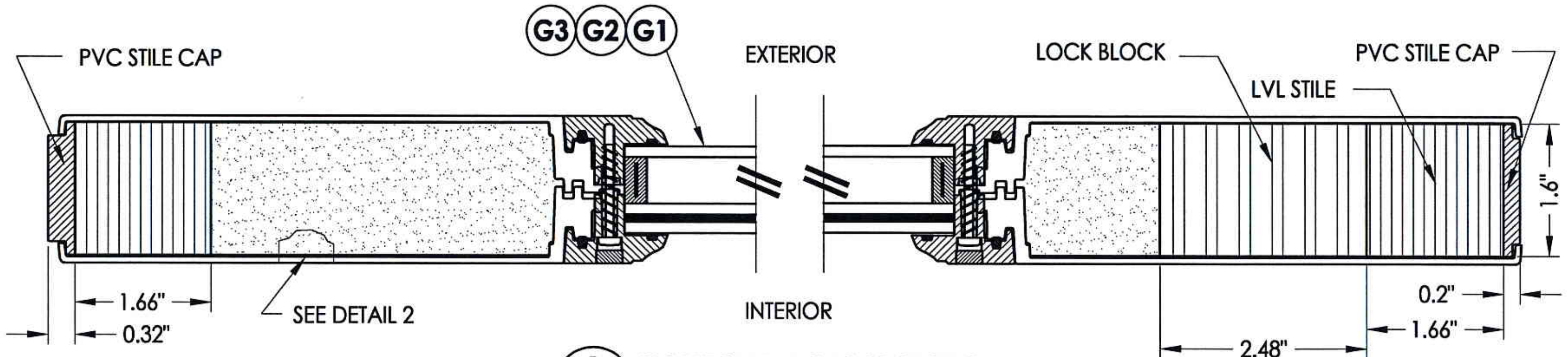
DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155

© 2012 R.W. BUILDING CONSULTANTS INC.

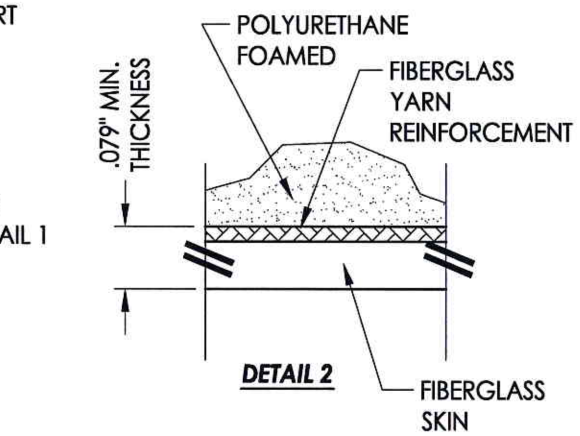
R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, TX-4155



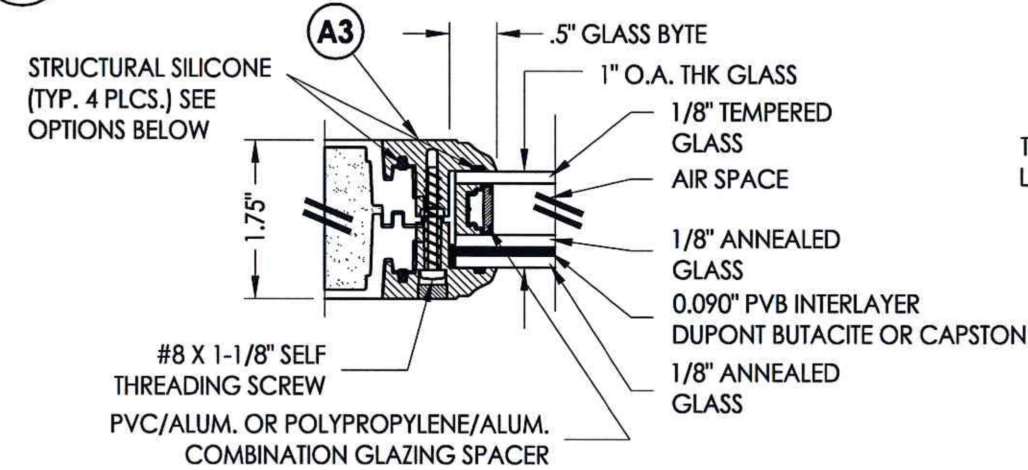
40 **DOOR PANEL**
Full lite



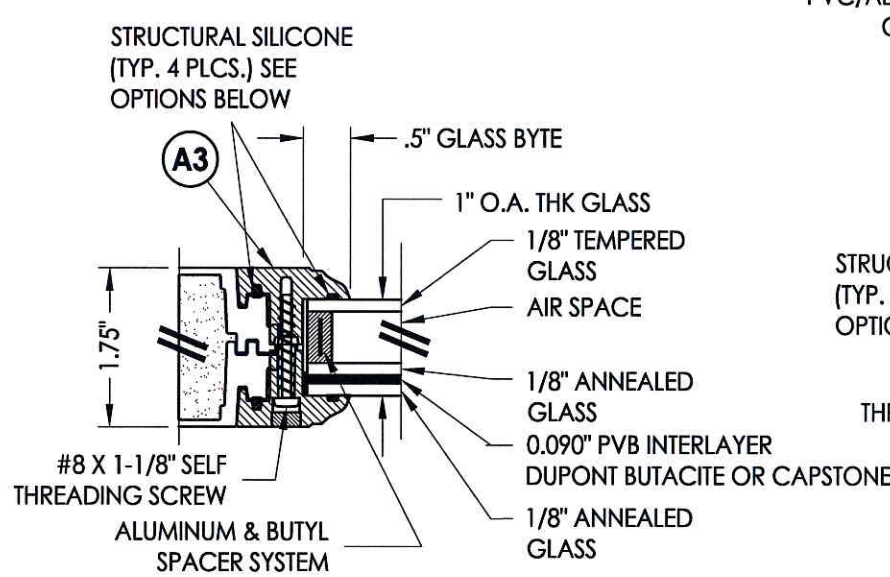
1/2 **HORIZONTAL CROSS SECTION**



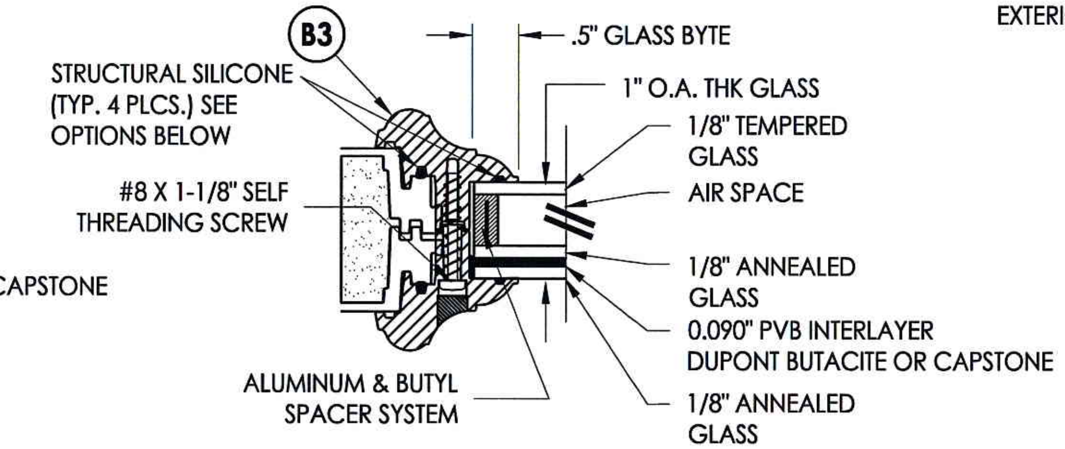
DETAIL 2



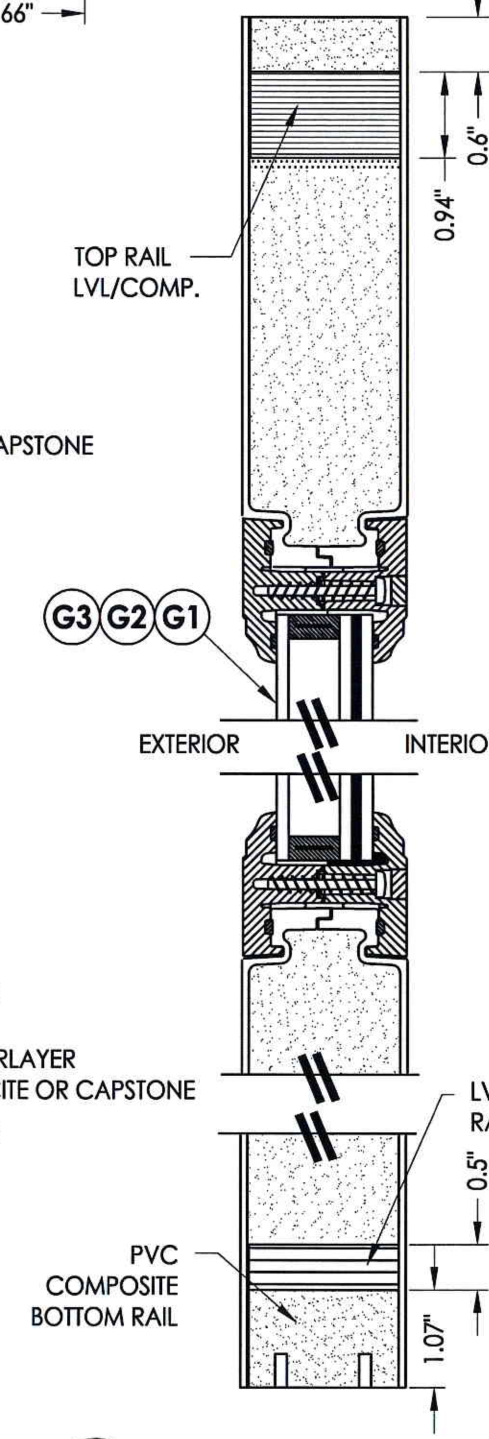
G2 **GLAZING DETAIL**



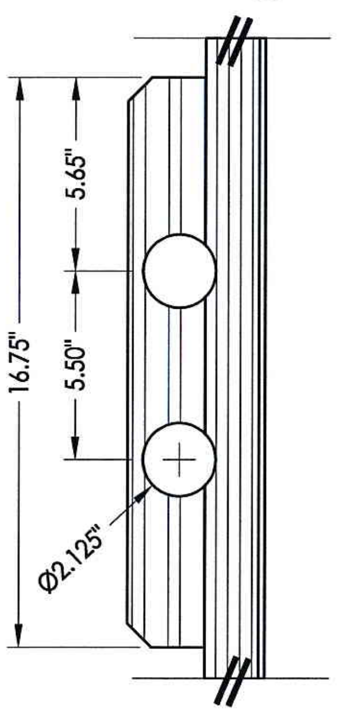
G1 **GLAZING DETAIL**



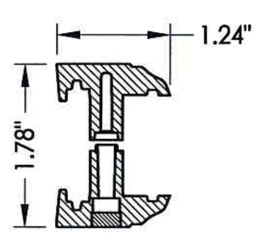
G3 **GLAZING DETAIL**



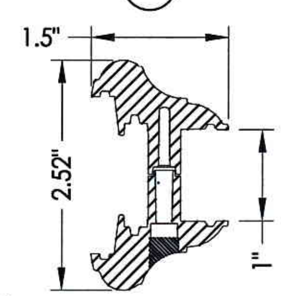
2/2 **VERTICAL CROSS SECTION**



DETAIL 1



A3 **FLUSH GLAZED FRAME**
ABS or PC/ASA



B3 **MAHOGANY LITE FRAME**
ABS or PC/ASA

LITE FRAME SCREW SPACING:
At each corner plus 6 more along sides (11" max. o.c.) & 2 more along top & bottom (8" max. o.c.).

HARDWARE CHART		
MANUFACTURER	**MODEL**	
KWIKSET	**KNOB:**	**SIGNATURE SERIES**
	DEADBOLT:	**SIGNATURE SERIES (980)**

STRUCTURAL SILICONE OPTIONS:
SILICONE BY CAPSTONE (4PL)
DOW 995 STRUCTURAL SILICONE
SILICONE BY DONGYANG SILICONE CO.

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
6-4-12

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

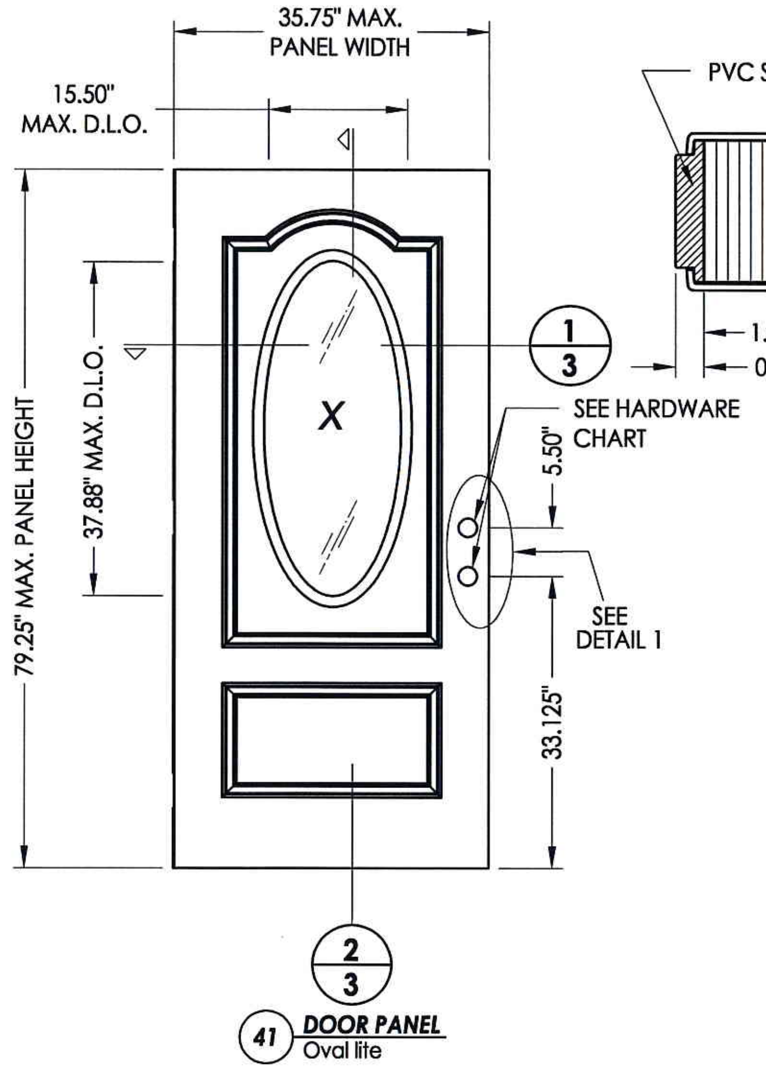
PRODUCT: TRINITY GLASS INT'L
PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS	BY

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155

© 2012 R.W. BUILDING CONSULTANTS INC.

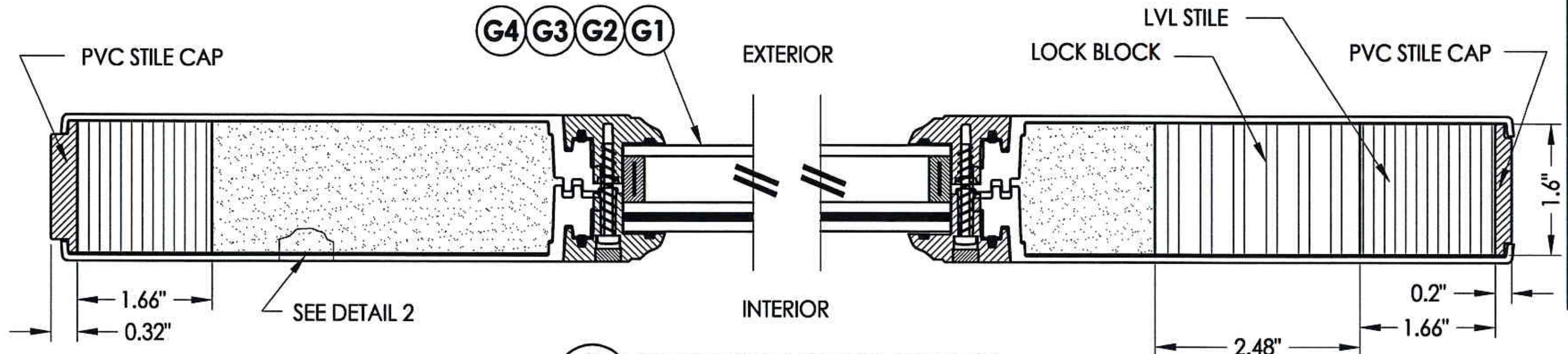
R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 2.2



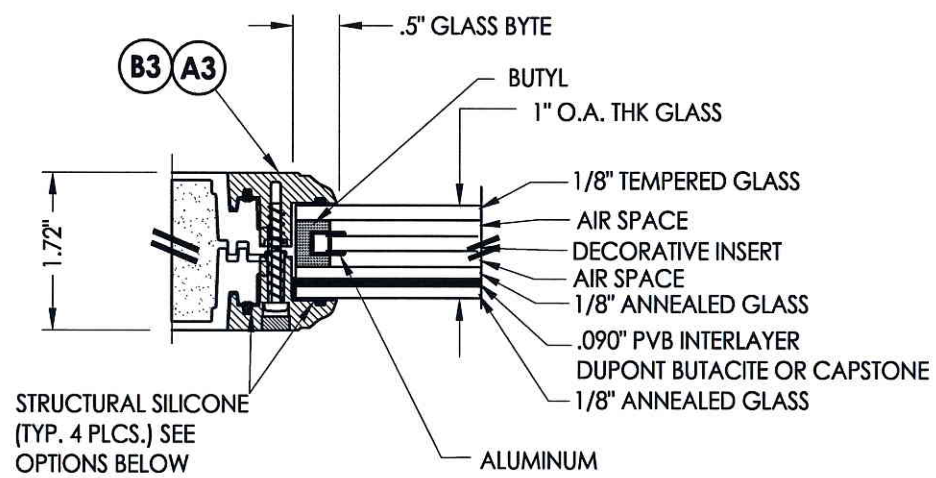
1/3

2/3

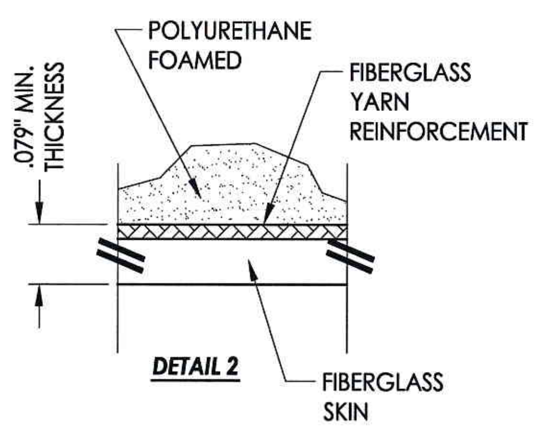
41 **DOOR PANEL**
Oval lite



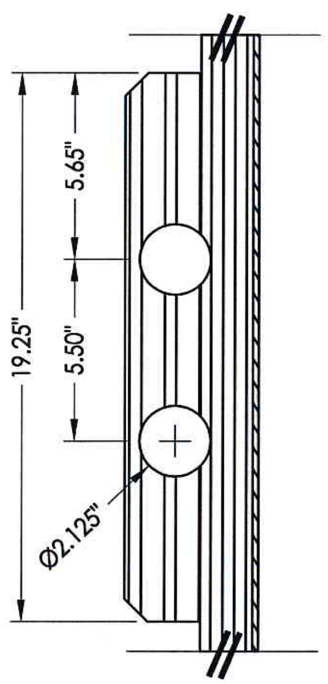
1/3 **HORIZONTAL CROSS SECTION**



G4 **GLAZING DETAIL**



DETAIL 2

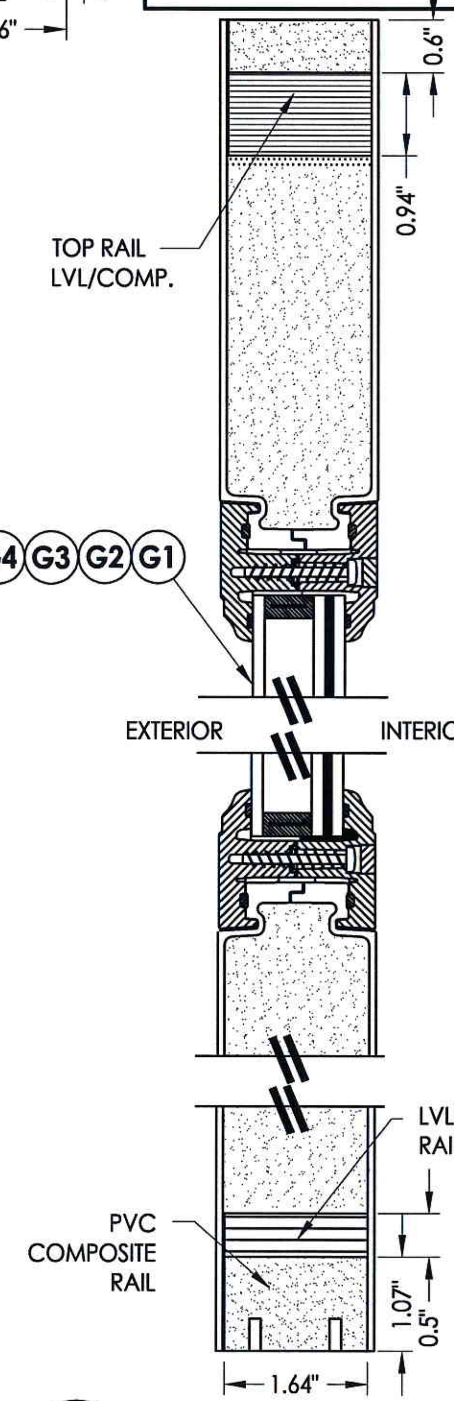


DETAIL 1

HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)

LITE FRAME SCREW SPACING:
At each corner plus 6 more along sides (11" max. o.c.) & 2 more along top & bottom (8" max. o.c.).

STRUCTURAL SILICONE OPTIONS:
SILICONE BY CAPSTONE (4PL)
DOW 995 STRUCTURAL SILICONE
SILICONE BY DONGYANG SILICONE CO.



2/3 **VERTICAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER

6.4.12

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

PART OR ASSEMBLY: DOOR PANEL DETAILS AND GLAZING DETAILS

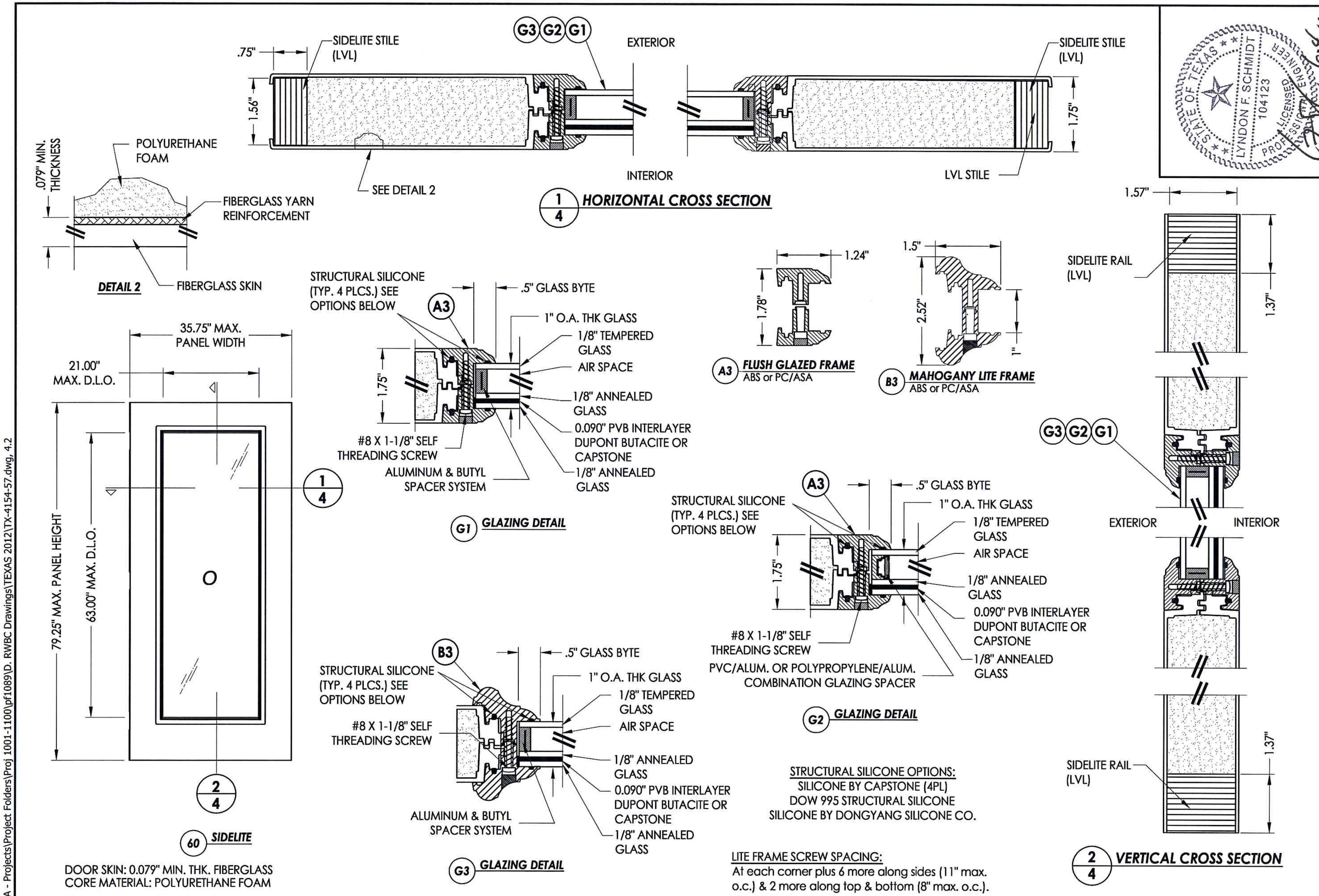
REVISIONS		
NO.	DATE	BY

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155

© 2012 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 3.2

R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 4.2



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

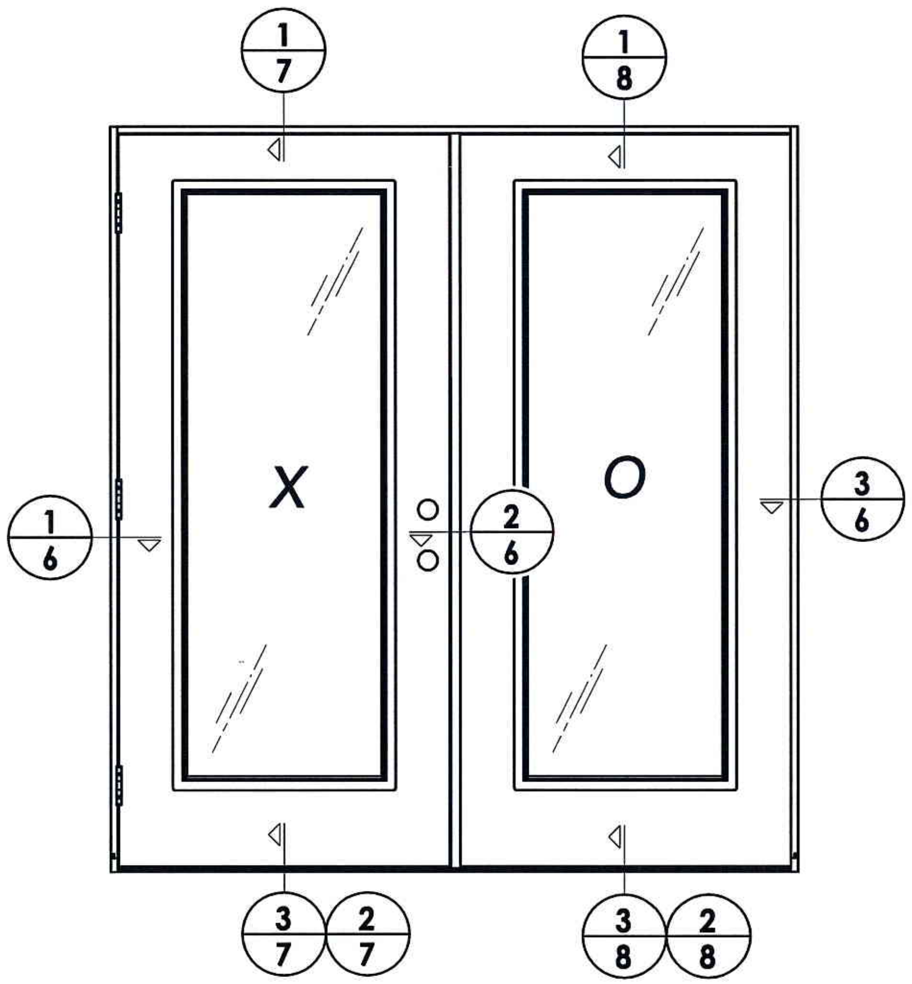
PRODUCT: TRINITY GLASS INT'L

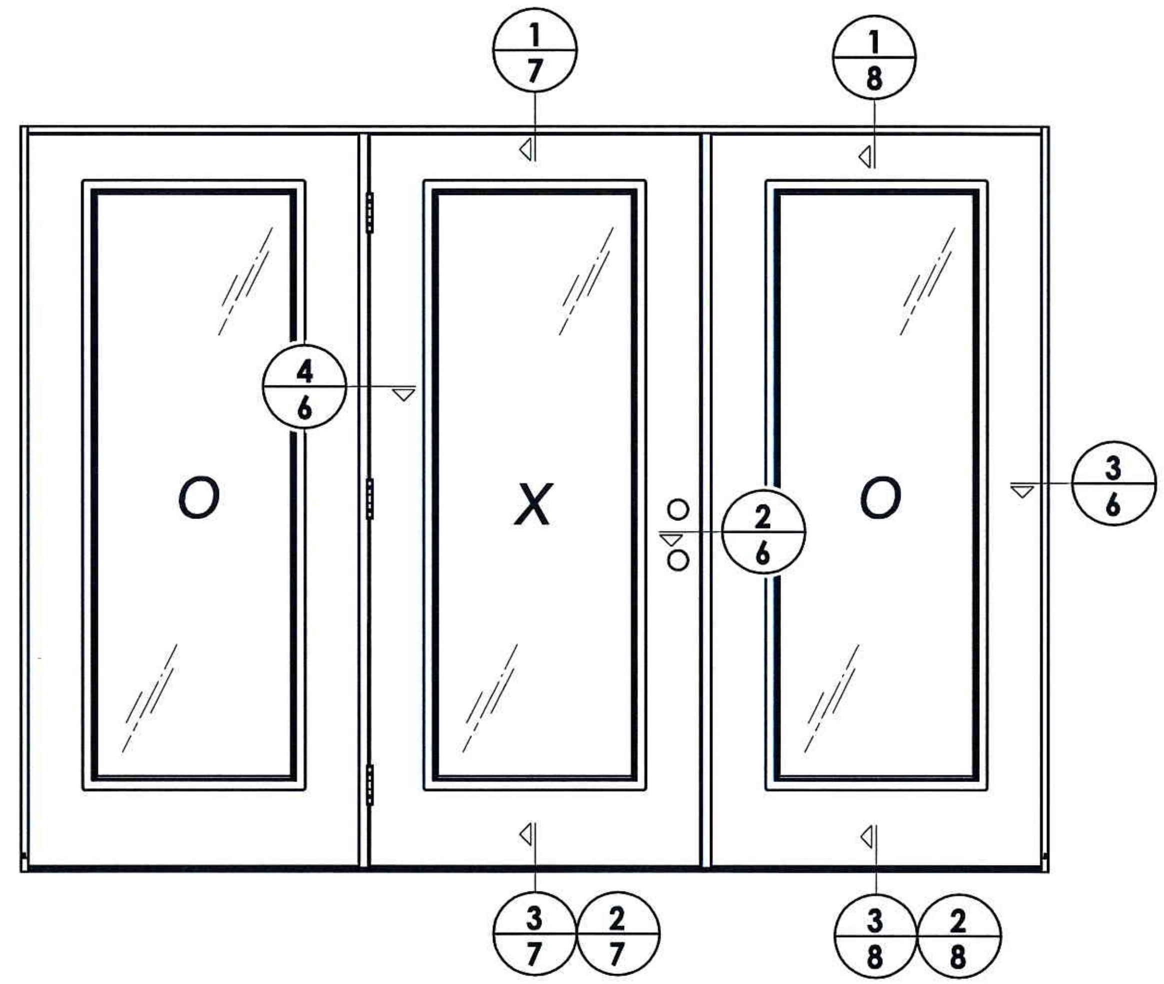
PART OR ASSEMBLY: SIDELITE PANEL DETAILS AND GLAZING DETAILS

REVISIONS		
NO.	DATE	BY

DATE:	5/10/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4155
SHEET	4 OF 12

© 2012 R.W. Building Consultants Inc.





STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
6.4.12

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

PART OR ASSEMBLY: ELEVATIONS

REVISIONS

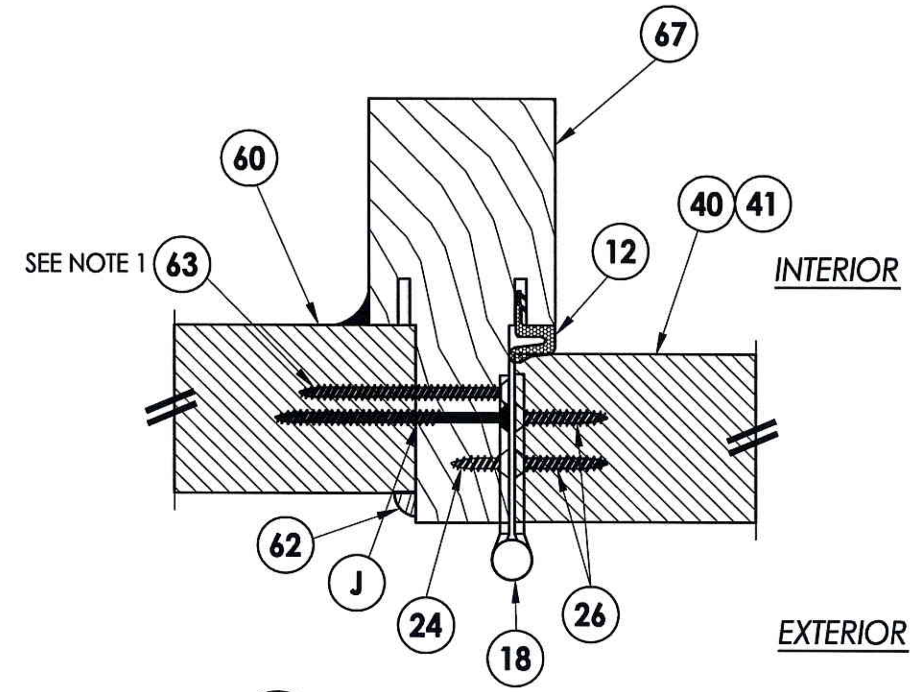
NO.	DATE	BY

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155
SHEET 5 OF 12

© 2012 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 5.2

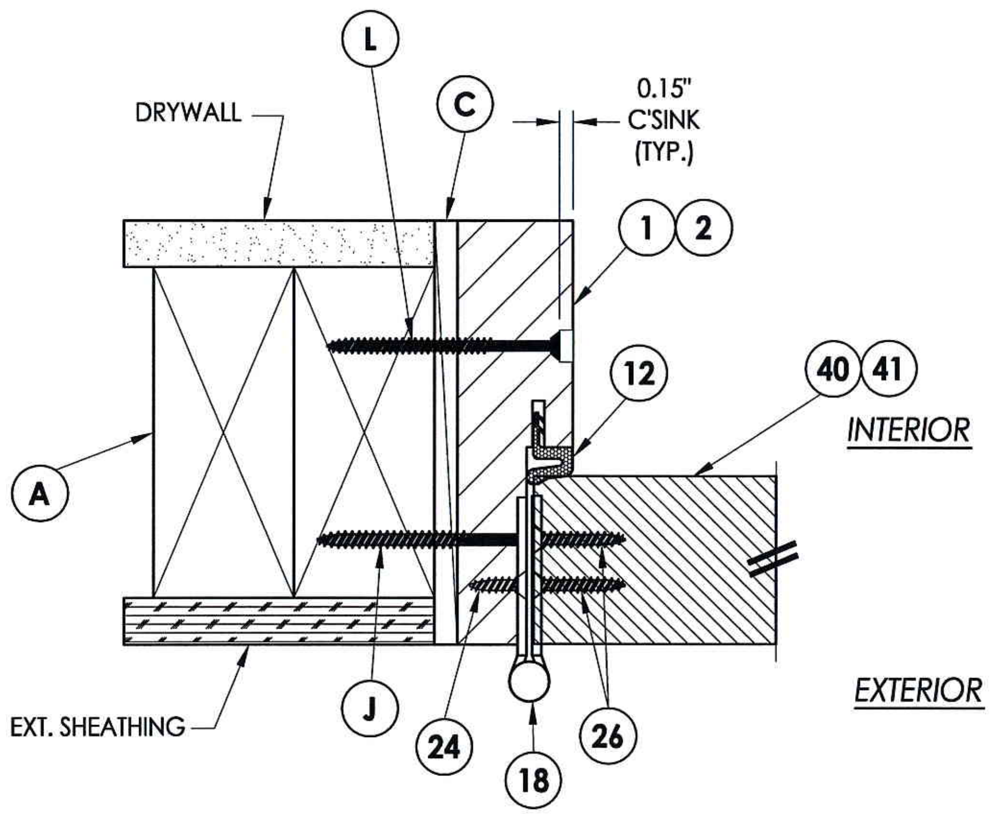
R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 6.2



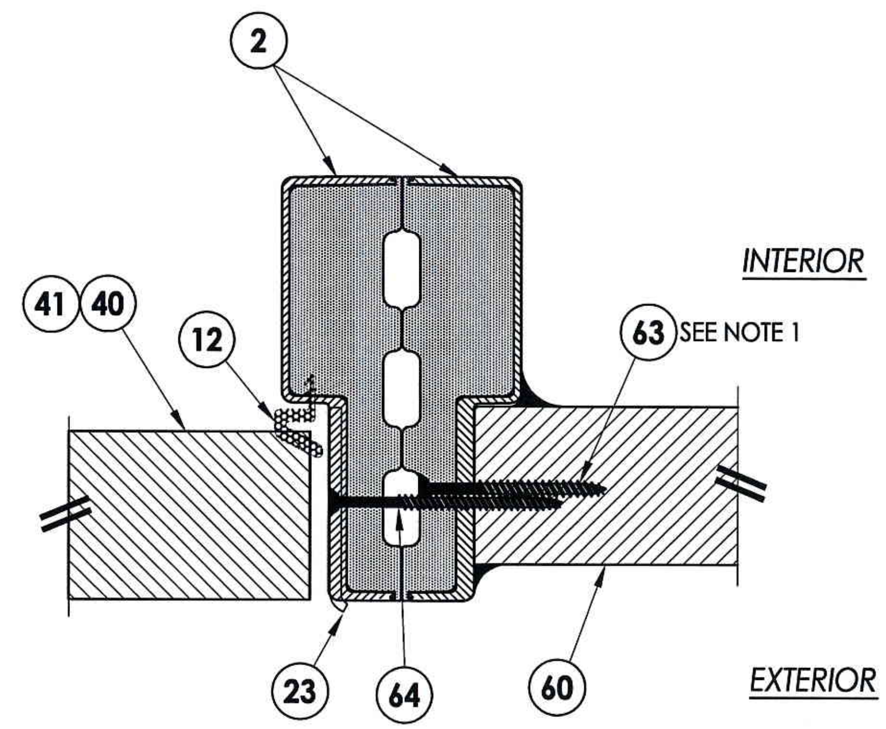
4/6 HORIZONTAL CROSS SECTION
Shown w/ wood integral mullion

NOTE:

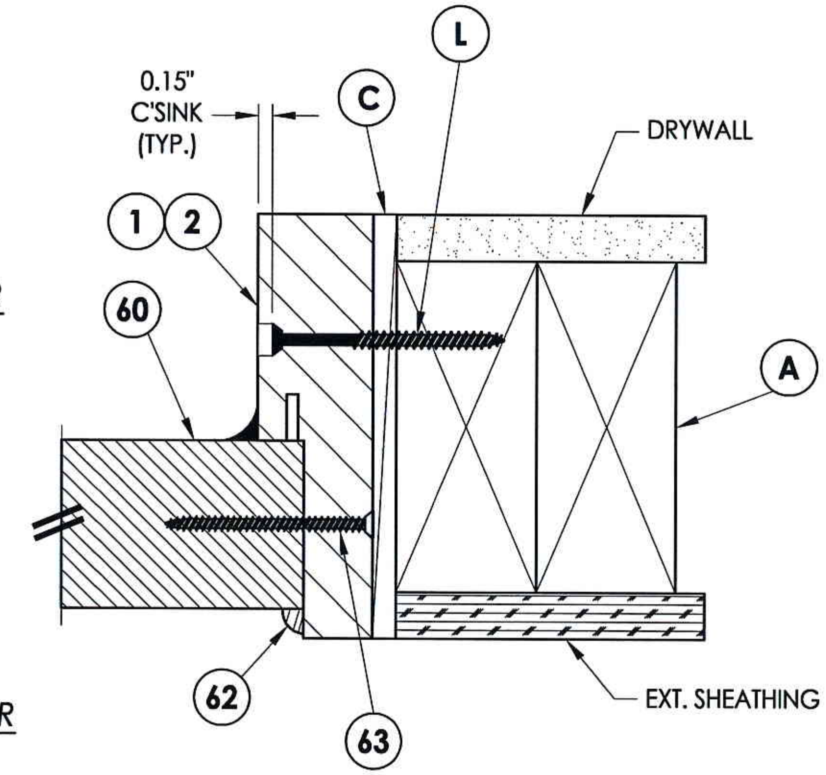
1. Item #63 located 6" from each end and 3 more equally spaced (5 total).



1/6 HORIZONTAL CROSS SECTION



2/6 HORIZONTAL CROSS SECTION
Shown w/ PVC jambs (back-to-back)



3/6 HORIZONTAL CROSS SECTION

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

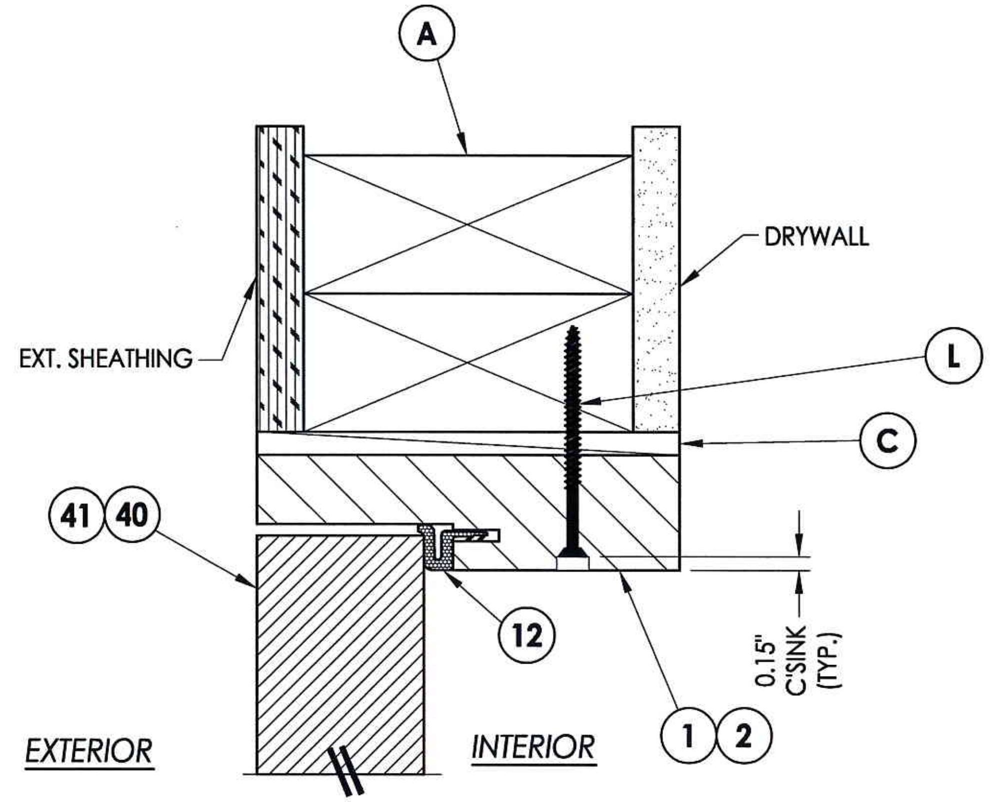
PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

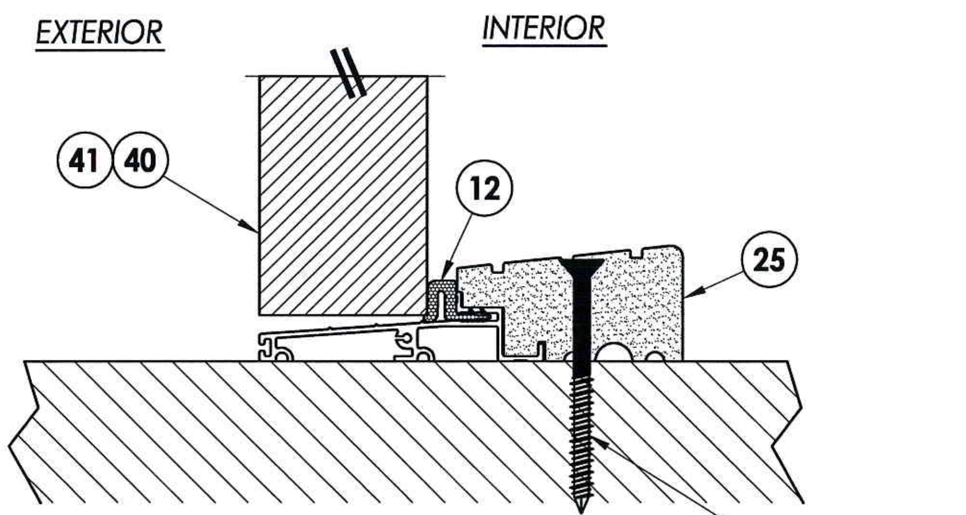
NO.	DATE	REVISIONS	BY

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155
SHEET 6 OF 12

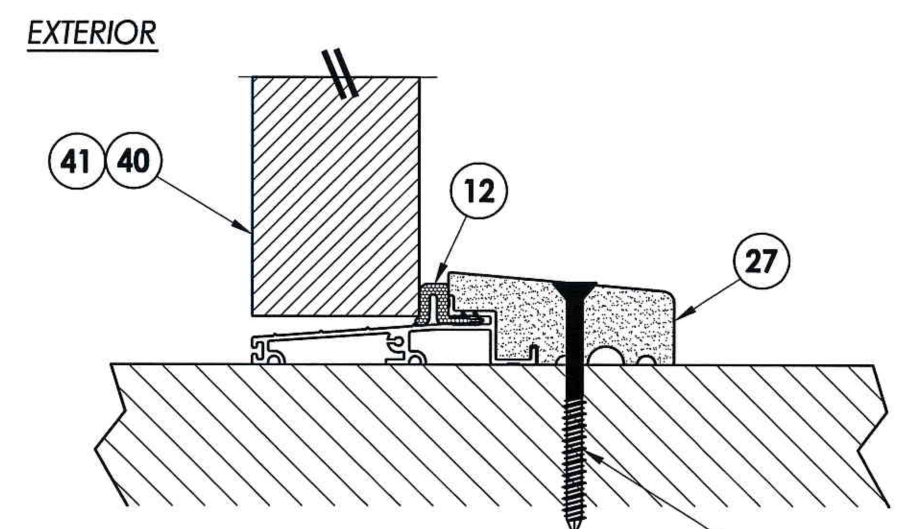
© 2012 R.W. BUILDING CONSULTANTS INC.



1/7 **VERTICAL CROSS SECTION**



2/7 **VERTICAL CROSS SECTION**
Outswing sill - high dam



3/7 **VERTICAL CROSS SECTION**
Outswing sill

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
6.4.12

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

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

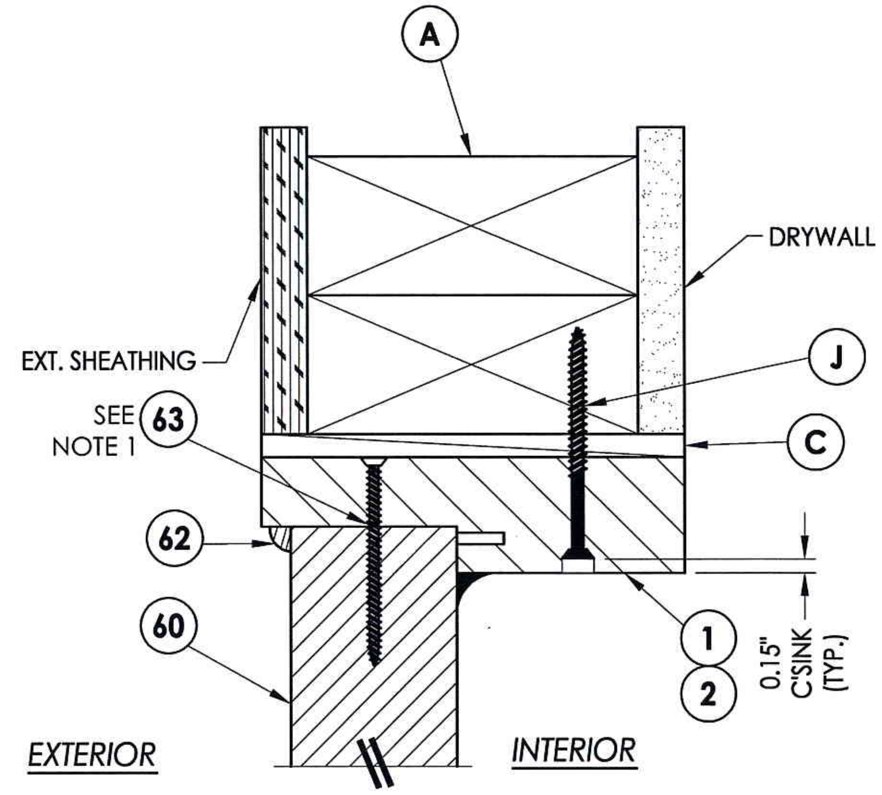
REVISIONS

NO.	DATE	BY

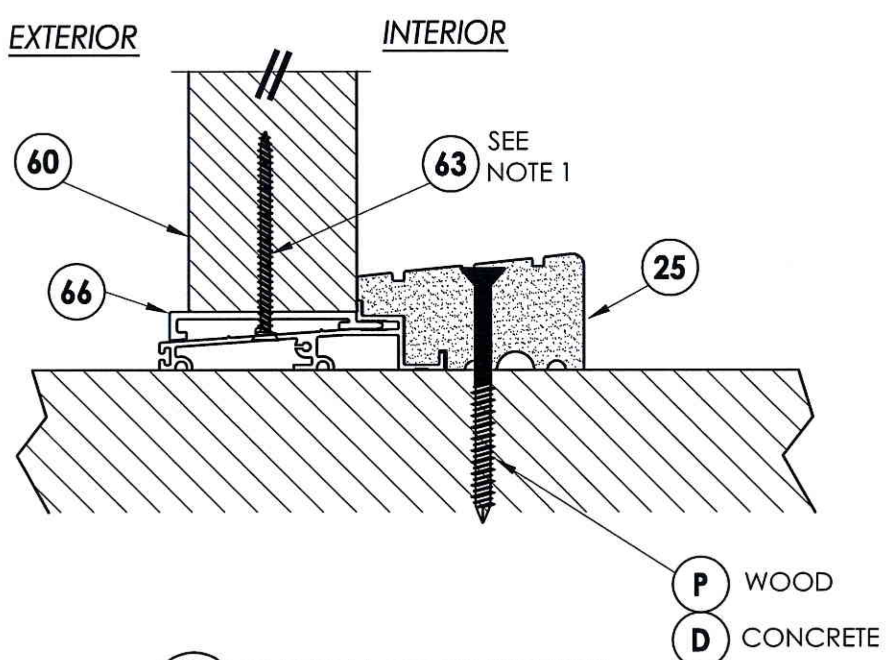
DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155

© 2012 R.W. BUILDING CONSULTANTS INC.

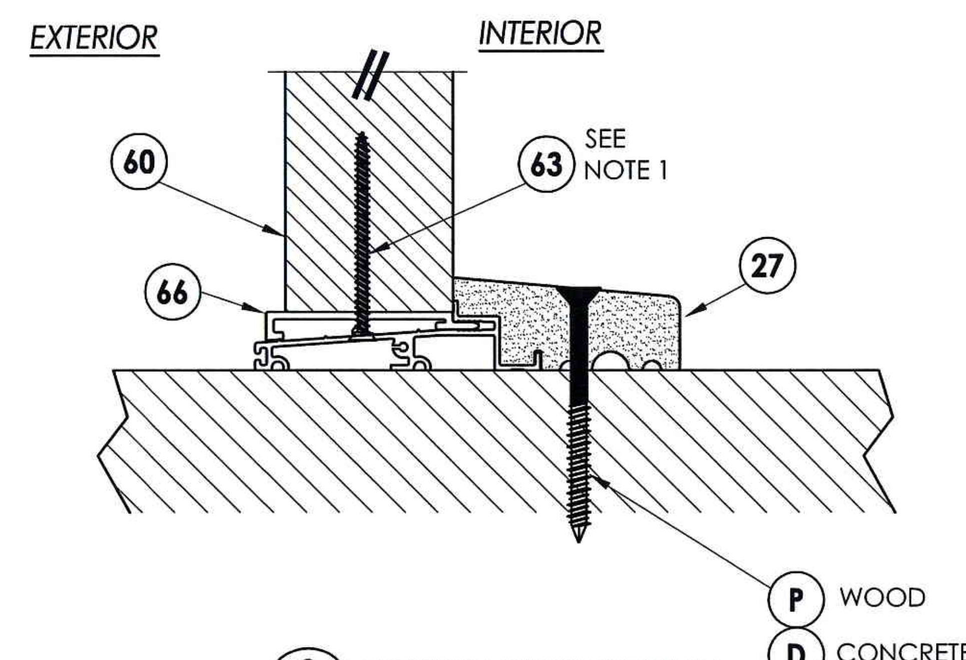
R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 7.2



1/8 **VERTICAL CROSS SECTION**



2/8 **VERTICAL CROSS SECTION**



3/8 **VERTICAL CROSS SECTION**

NOTE:

1. Screws thru head and sill jamb located 3" from each end and on center line.

STATE OF TEXAS — LYNDON F. SCHMIDT — 104123 — LICENSED PROFESSIONAL ENGINEER

6.4.12

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

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

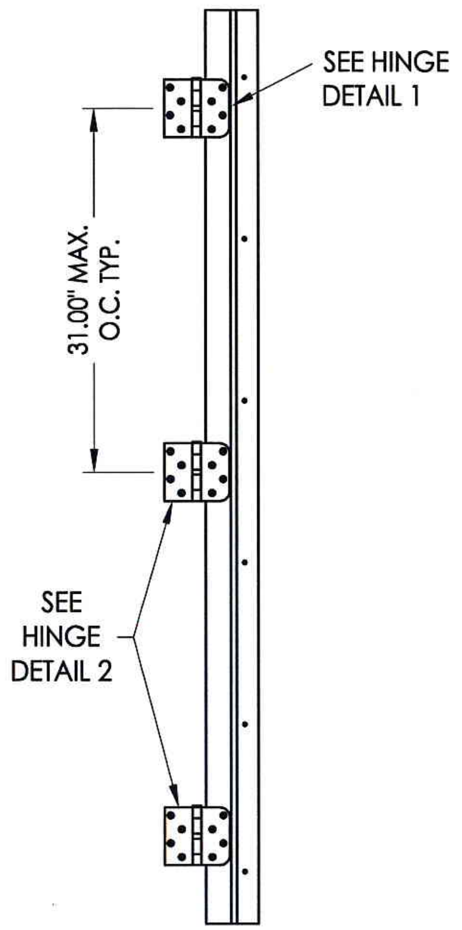
REVISIONS

NO.	DATE	BY

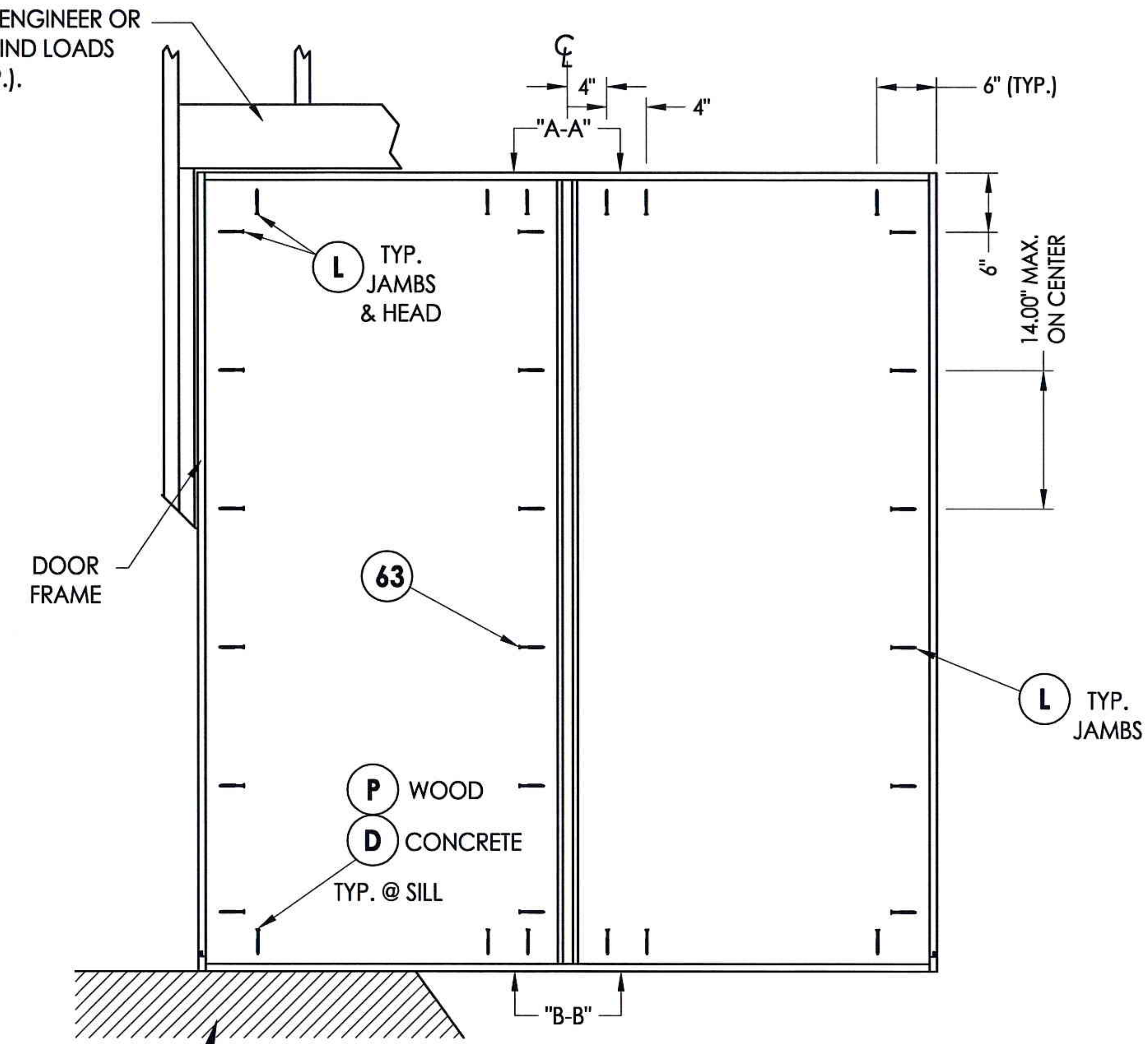
DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155
SHEET 8 OF 12

© 2012 R.W. Building Consultants Inc.

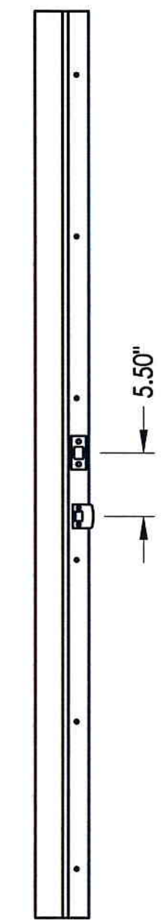
R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 8.2



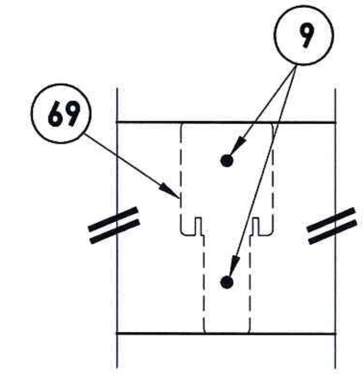
HINGE JAMB



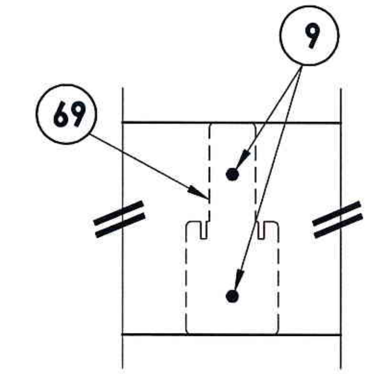
FRAME ANCHORING



STRIKE JAMB



VIEW A-A
Head to mullion attachment

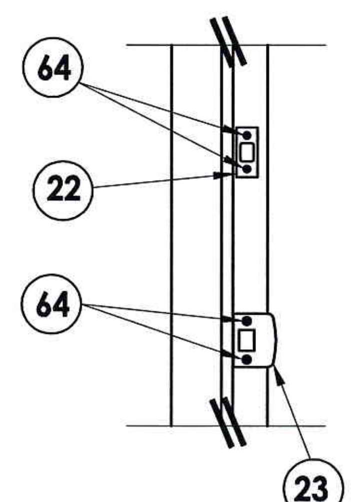


VIEW B-B
Sill to mullion attachment

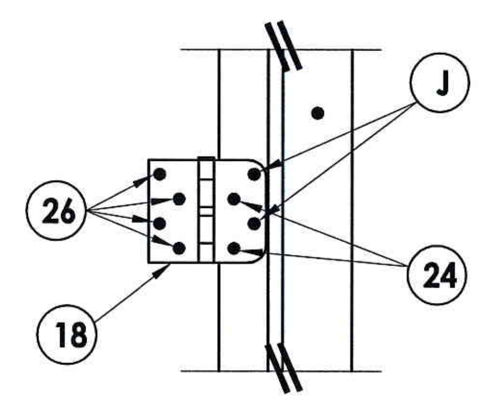
CONCRETE ANCHOR NOTES:

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:*

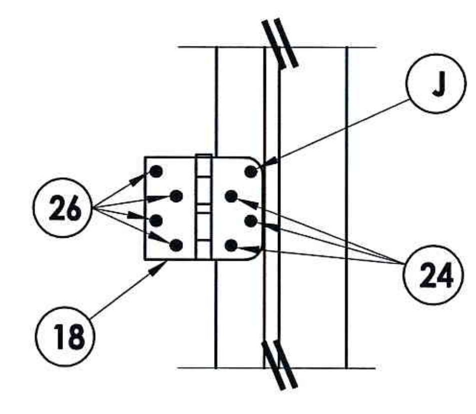
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	1/4"	1-1/4"	2-1/2"	3"
ELCO	1/4"	1-1/4"	1"	4"



STRIKE PLATE DETAIL



HINGE DETAIL 1



HINGE DETAIL 2

STATE OF TEXAS ★ LYNDON F. SCHMIDT 104123 LICENSED PROFESSIONAL ENGINEER

6.4.12

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

PART OR ASSEMBLY: FRAME ANCHORING (OX/XO)

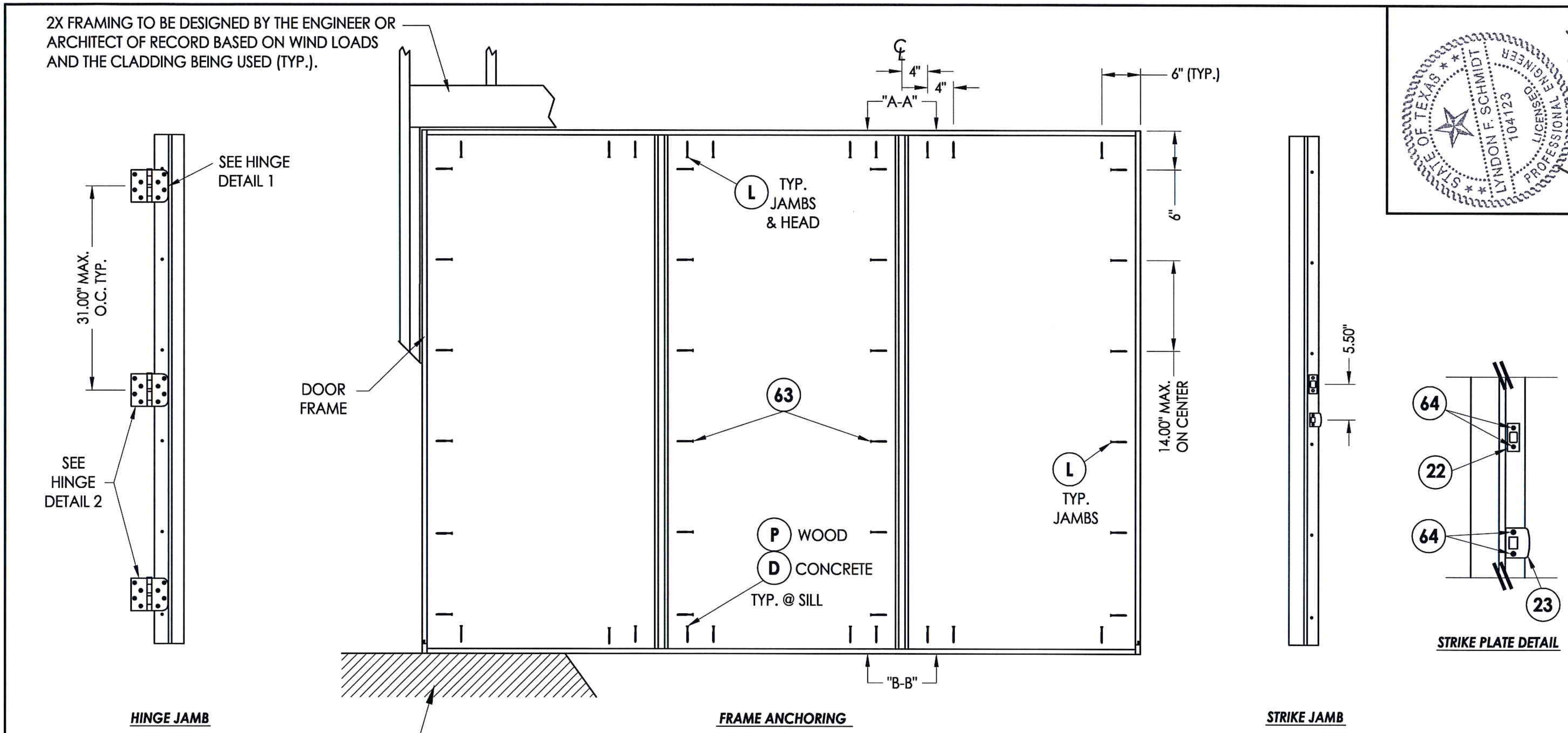
REVISIONS

NO.	DATE	BY

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155

© 2012 R.W. BUILDING CONSULTANTS INC.

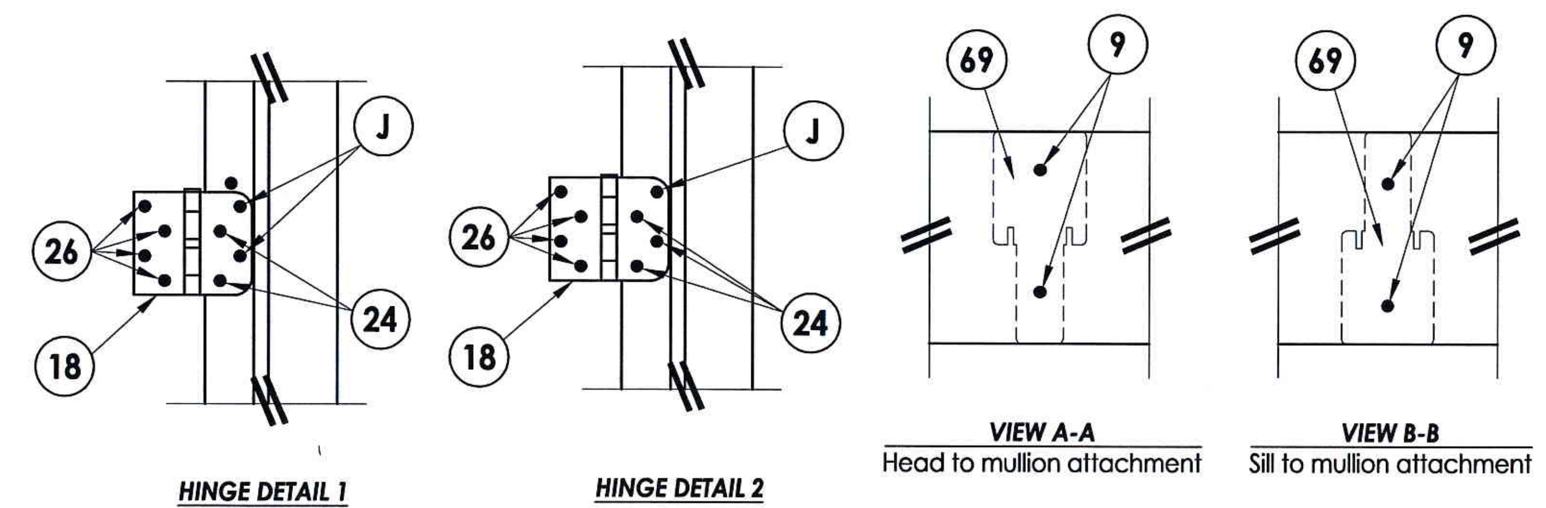
R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 9.2



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	1/4"	1-1/4"	2-1/2"	3"
ELCO	1/4"	1-1/4"	1"	4"



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

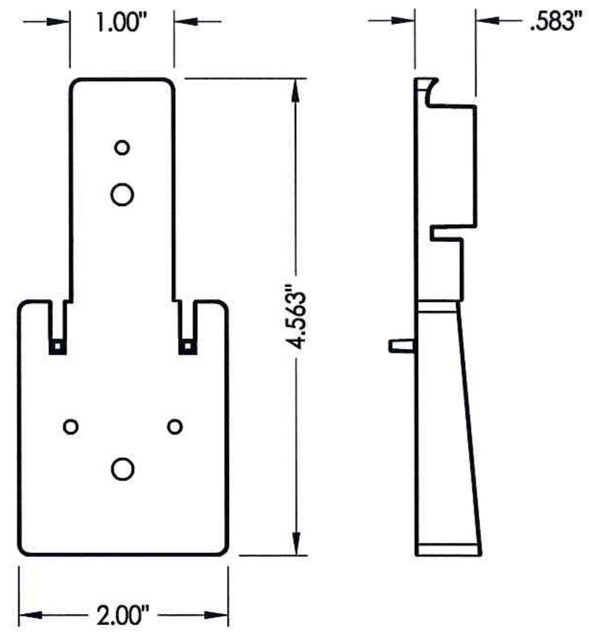
PART OR ASSEMBLY: FRAME ANCHORING (OXO)

NO.	DATE	REVISIONS	BY

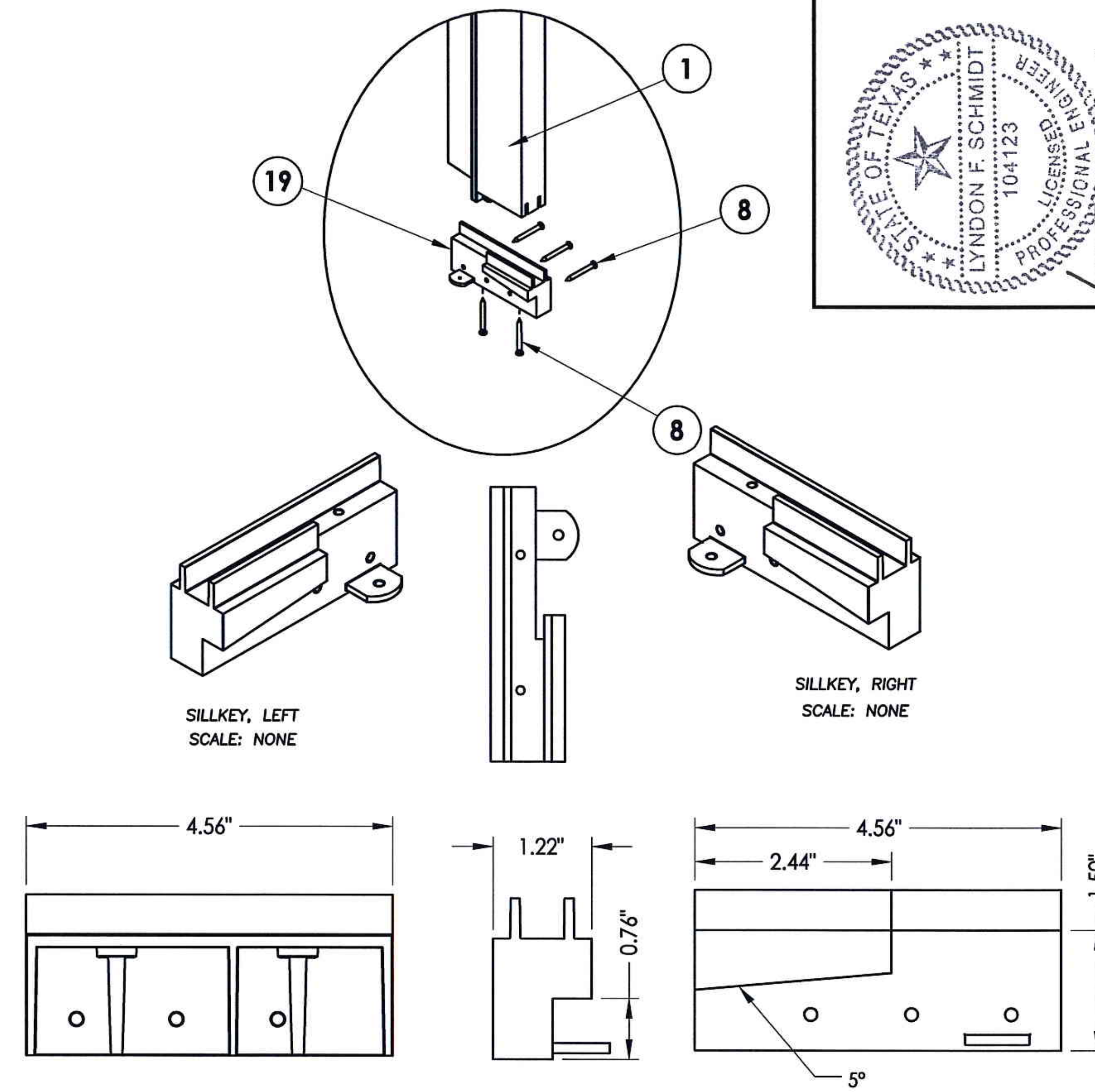
DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155
SHEET 10 OF 12

© 2012 R.W. BUILDING CONSULTANTS INC.

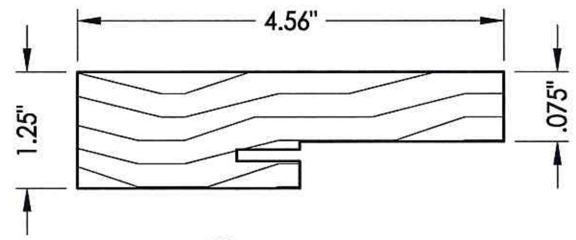
R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 10.2



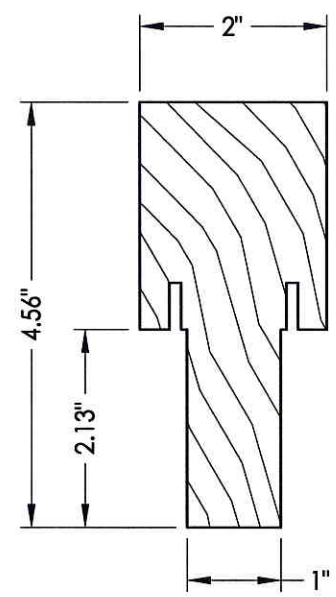
69 ***MULLION BASE KIT***
Optional



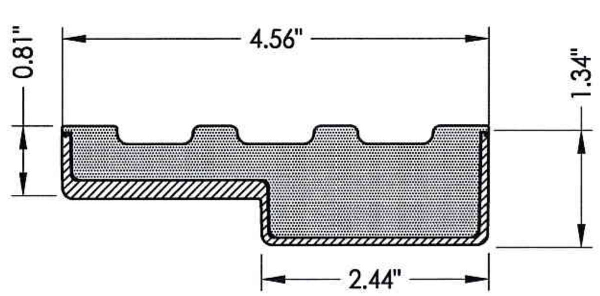
19 ***SILLKEY DETAILS***
Optional



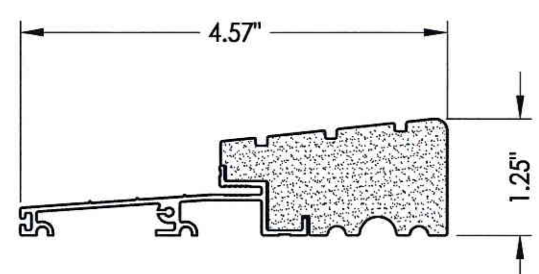
1 ***SIDE & HEAD JAMBS***



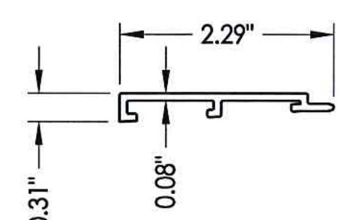
67 ***INTEGRAL MULLION***



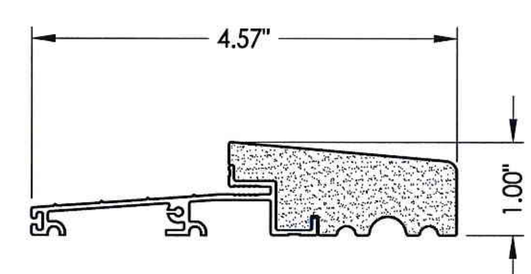
2 ***HEAD AND JAMBS***
Composite PVC Base
w/ Fiberglass Wrap



25 ***OUTSWING THRESHOLD***
High-dam option



66 ***SIDELITE SPACER***
Outswing



27 ***OUTSWING THRESHOLD***

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
6.4.12

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

PART OR ASSEMBLY: COMPONENTS

REVISIONS

NO.	DATE	BY

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155

© 2012 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 11.2

BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
J	#9 X 2-1/4" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
P	#10 X 3" PFH WS	STEEL
1	JAMB (FINGER-JOINT PINE: G >= 0.42)	WOOD
2	JAMB	FIBERGLASS/COMP
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	-
18	4" X 4" HINGE	STEEL
19	SILLKEY	PC/ASA
22	DEADBOLT STRIKE PLATE	STEEL
23	STRIKE 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.
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
60	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
62	QUARTER ROUND	WOOD
63	#8 X 2-1/4" PFH WOOD SCREW	STEEL
64	#8 X 2" PFH WOOD SCREW	STEEL
66	SIDELITE SPACER	ALUM
67	INTEGRAL MULLION (G >= 0.42)	WOOD
69	MULLION BASE KIT	PC/ASA

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
6.4.12

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

PART OR ASSEMBLY: BILL OF MATERIALS

REVISIONS

NO.	DATE	BY

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155

© 2012 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\D. RWBC Drawings\TEXAS 2012\TX-4154-57.dwg, 12.2