THERMA TRU®

THERMA TRU DOORS

118 INDUSTRIAL DR., EDGERTON, OH 43517

# *"VENTED" SIDELITES w/ OPAQUE FIBERGLASS DOOR*

## *INSWING*

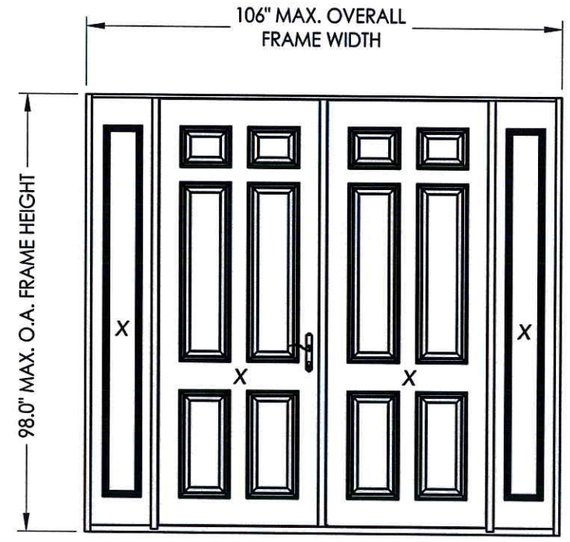
## *"NON-IMPACT"*

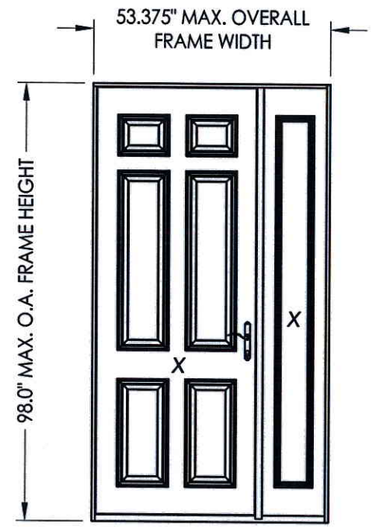
EVALUATED FOR USE IN THE STATE OF TEXAS

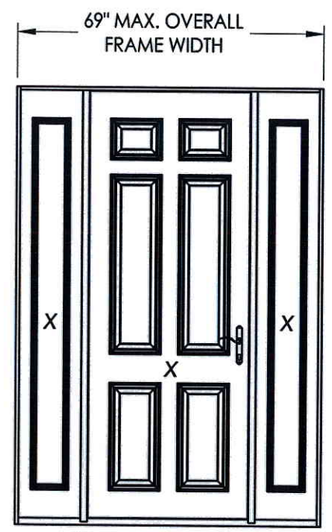
The Fiberglass Door described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

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. 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.

| *TABLE OF CONTENTS* | |
|---|---|
| ***SHEET#*** | ***DESCRIPTION*** |
| 1 | Typical elevations, design pressures & general notes |
| 2 | Door panel details |
| 3 | Sidelite panel details and glazing details |
| 4 | Elevations |
| 5 | Horizontal cross sections |
| 6 | Vertical cross sections |
| 7 | Frame anchoring |
| 8 | Hardware details |
| 9 | Hardware strike details |
| 10 | Bill of materials and components |




| CONFIGURATION | MAX. FRAME DIMENSION | DESIGN PRESSURE (PSF) Multi-Point Door Lock | | DESIGN PRESSURE (PSF) Lock & Deadbolt | |
|---|---|---|---|---|---|
| | | POSITIVE | NEGATIVE | POSITIVE | NEGATIVE |
| XX | 53.375" x 98.0" | +65.0 | -70.0 | +50.0 | -50.0 |
| XXX | 69.0" x 98.0" | +65.0 | -70.0 | +50.0 | -50.0 |
| XXXX | 106.0" x 98.0" | +35.0 | -35.0 | N/A | N/A |

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

12.19.13


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: THERMA-TRU

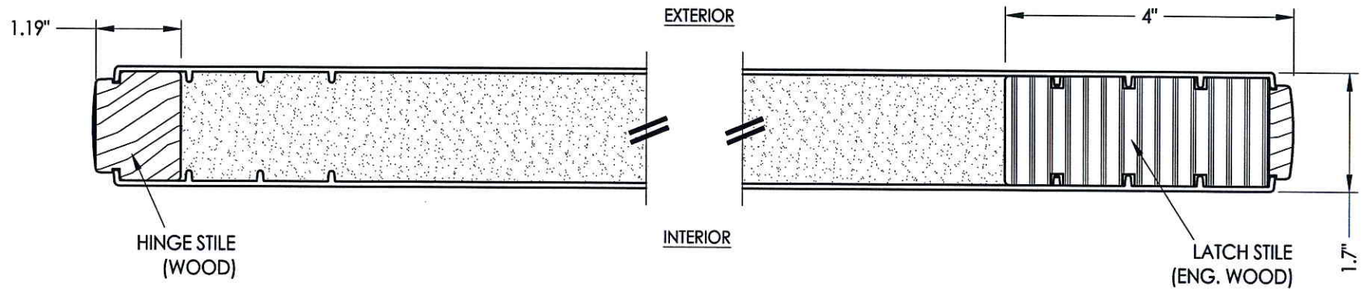
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|

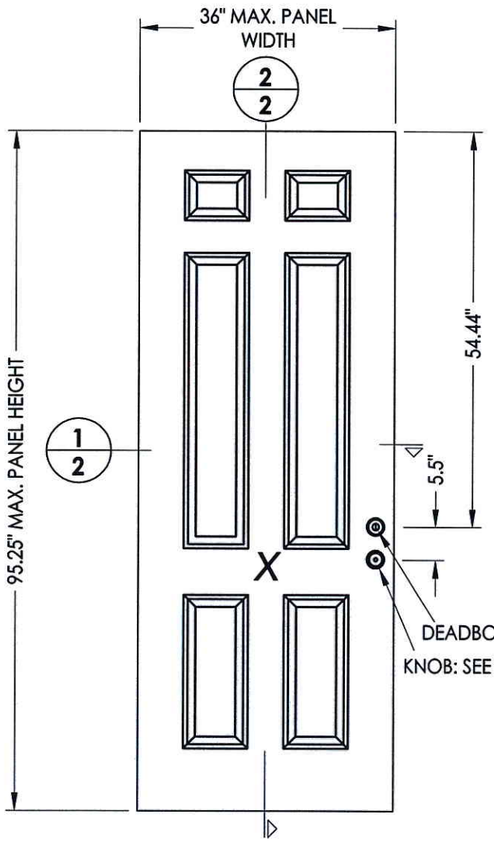
DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 1 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

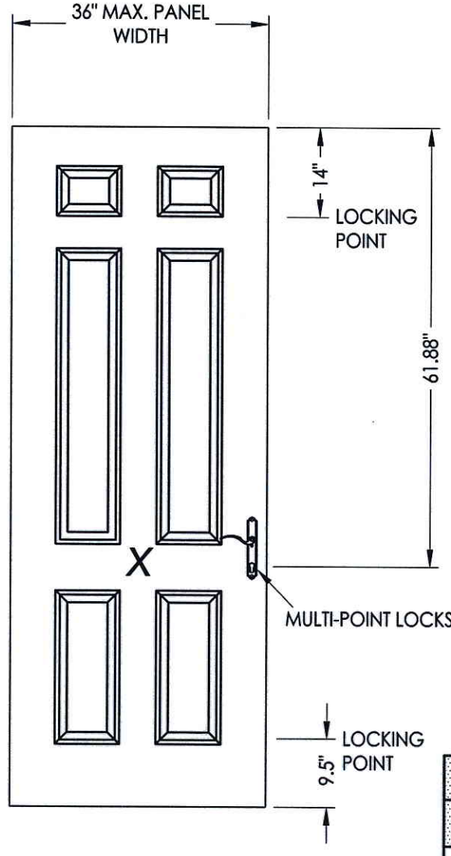
R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, TX-4292




1/2 **HORIZONTAL CROSS SECTION**

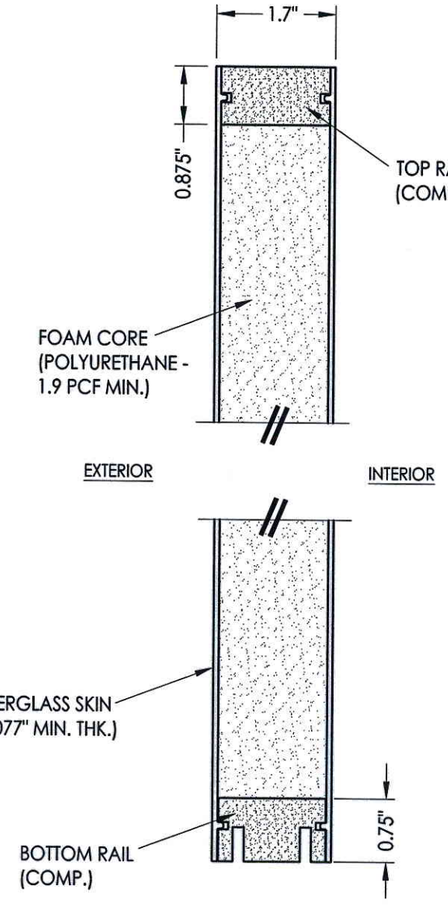



40 **DOOR PANEL (SMOOTH STAR / FIBER CLASSIC)**
Latch & Deadbolt

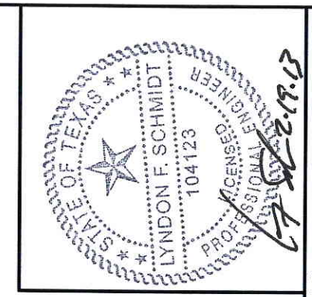



40 **DOOR PANEL (SMOOTH STAR / FIBER CLASSIC)**
Multi-point Lockset

| HARDWARE TABLE | |
|---|---|
| MANUFACTURER | MODEL |
| KWIKSET | KNOB: SIGNATURE SERIES<br>DEADBOLT: SIGNATURE SERIES (780) |
| HOPPE | MULTI-POINT: HLS 9000 SERIES |




2/2 **VERTICAL 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: THERMA-TRU

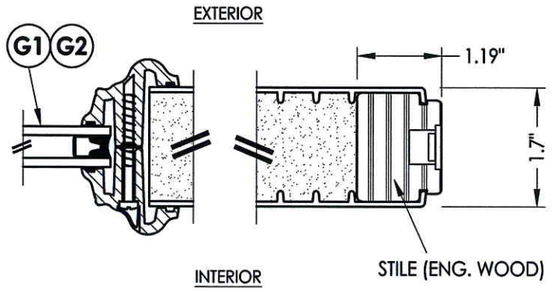
PART OR ASSEMBLY: DOOR PANEL DETAILS

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|

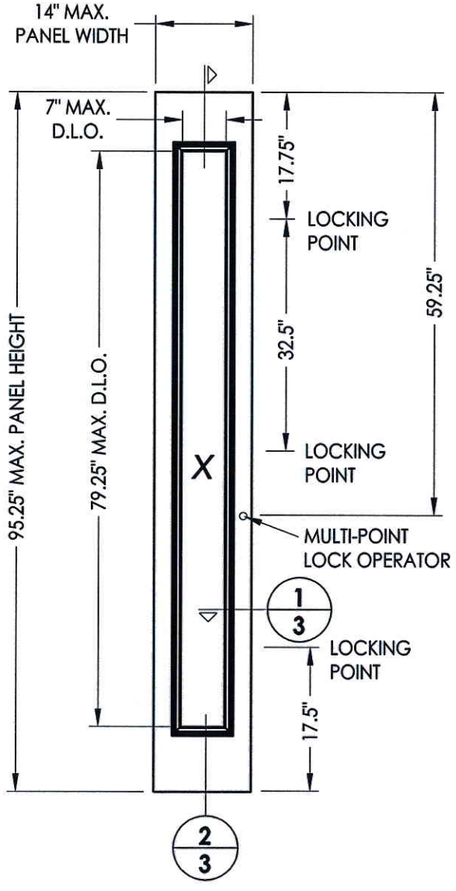
DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 2 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

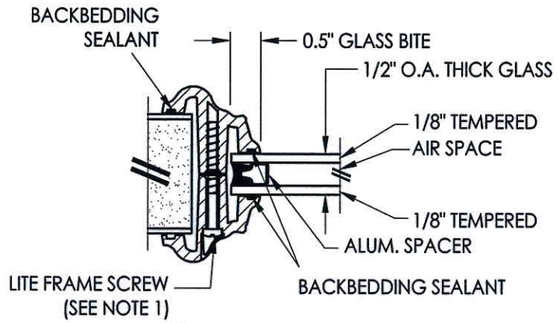
R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, 2.3



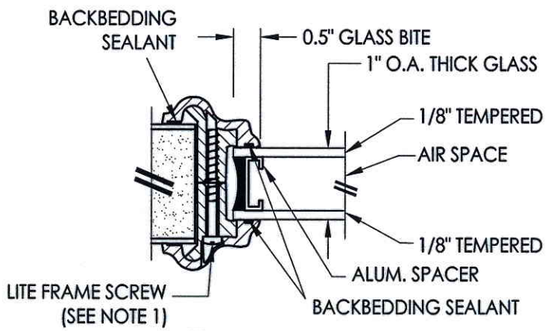

**1/3 HORIZONTAL CROSS SECTION**
Lip Lite Glazing




**50 SIDELITE PANEL**
VENTED

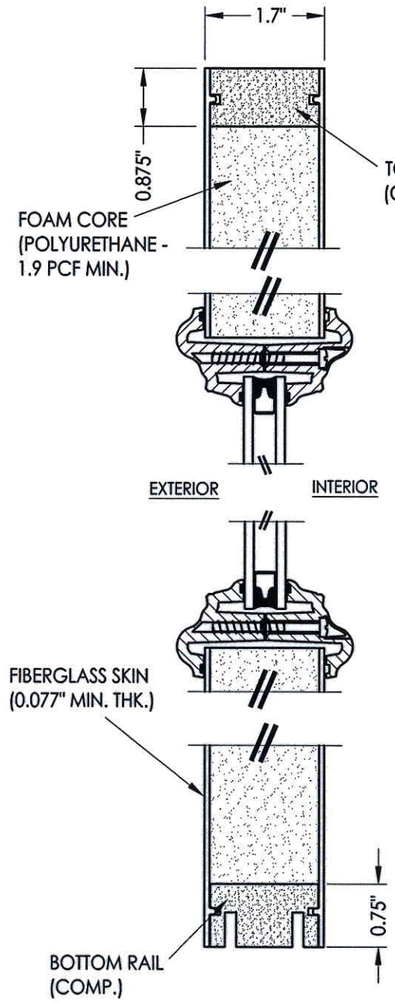



**G1 GLAZING DETAIL (1/2" IG)**
Lip Lite Frame (BTS)




**G2 GLAZING DETAIL (1" IG)**
Lip Lite Frame (BTS)

| HARDWARE TABLE | |
|---|---|
| MANUFACTURER | MODEL |
| HOPPE | MULTI-POINT: OSL SERIES (Sidelite) |




**2/3 VERTICAL CROSS SECTION**

NOTE:
1. Lite frame screws (#8 x 1-1/2" PH SMS), 16 total per sidelite, evenly spaced.

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
2.19.13


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: THERMA-TRU

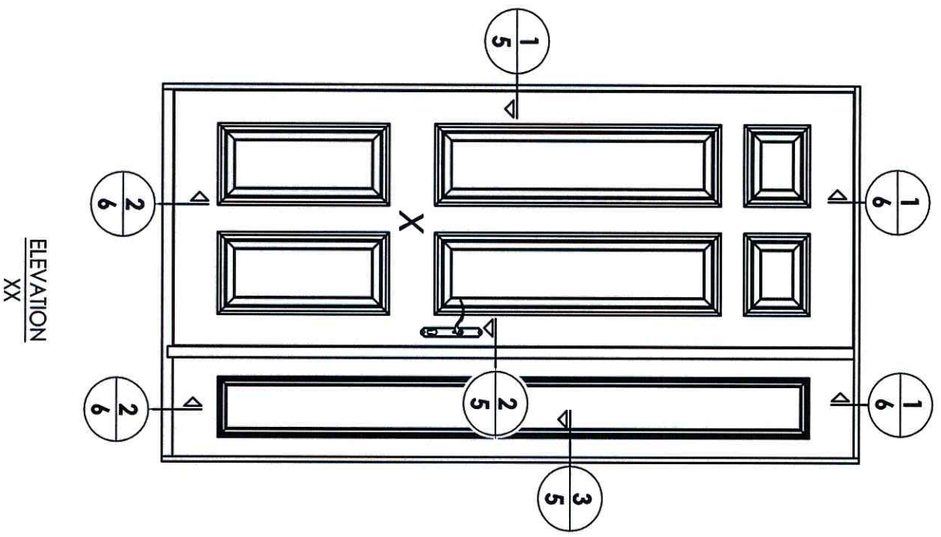
PART OR ASSEMBLY: SIDELITE PANEL DETAILS & GLAZING DETAILS

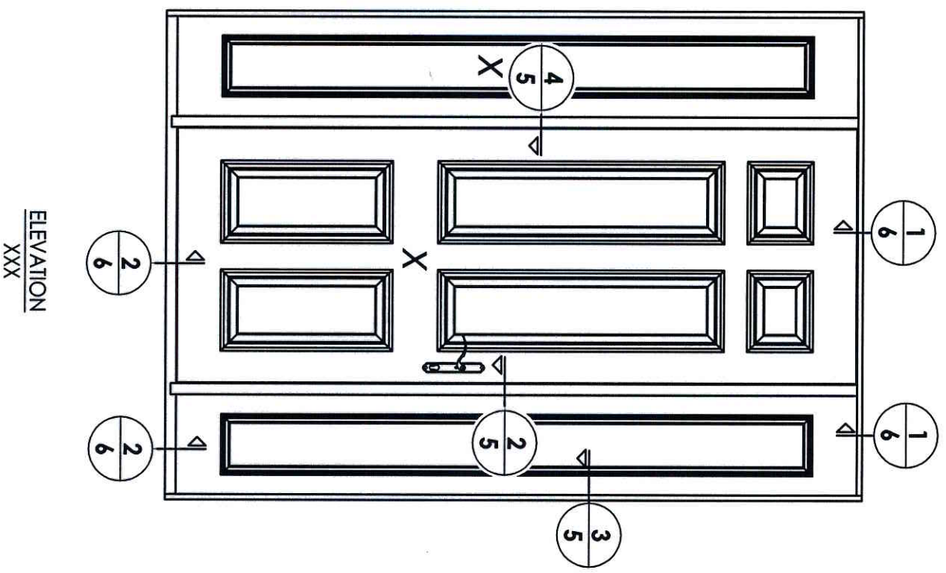
| NO. | DATE | REVISIONS | BY |
|---|---|---|---|

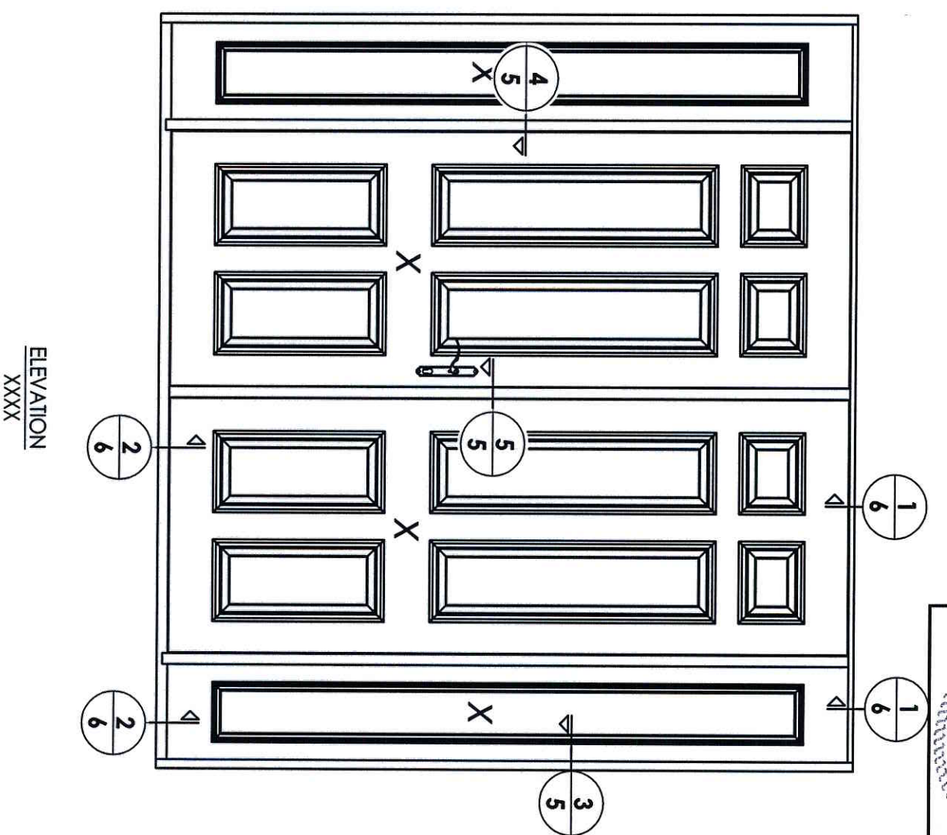
DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 3 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, 3.3




STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
2.19.13

| | |
|---|---|
| SHEET | 4 OF 10 |
| DRAWING NO.: | TX-4292 |
| CHK. BY: | LFS |
| DWG. BY: | JK |
| SCALE: | N.T.S. |
| DATE: | 1/2/13 |

| NO. | DATE | BY |
|---|---|---|
| | REVISIONS | |

PRODUCT:
*THERMA-TRU*

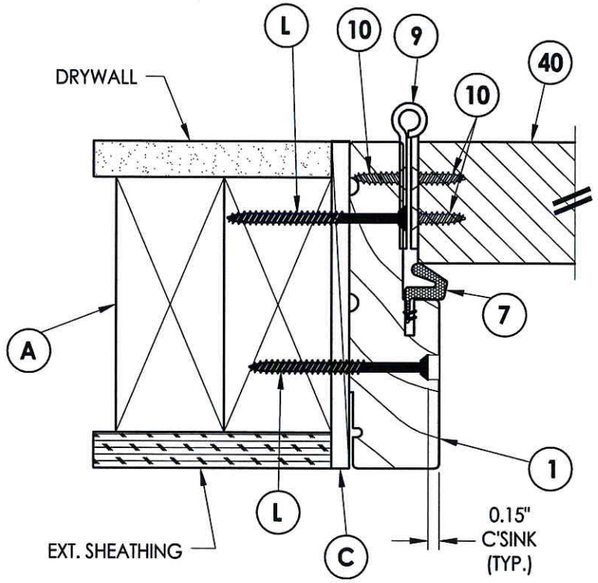
PART OR ASSEMBLY:
*ELEVATIONS*

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

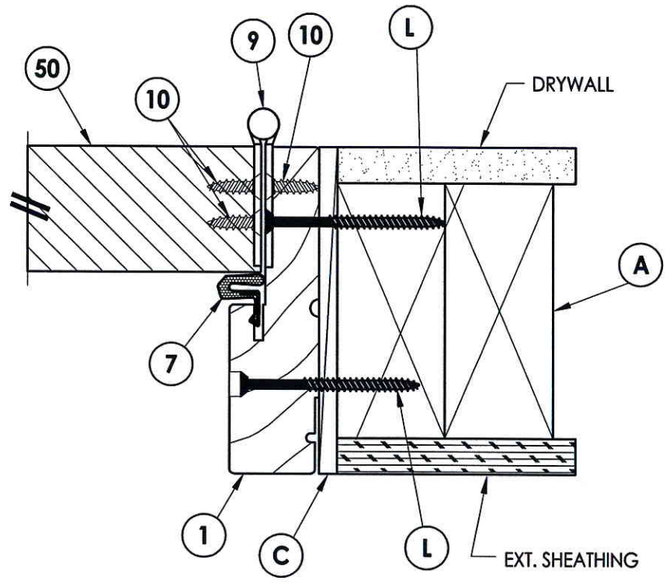
© 2013 R.W. Building Consultants Inc.



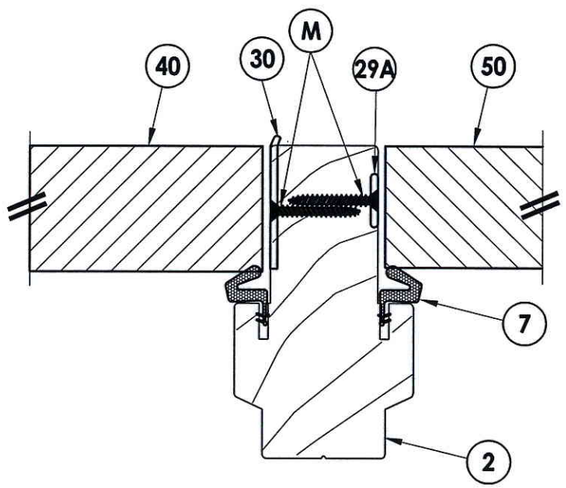

1/5 **HORIZONTAL CROSS SECTION**

INTERIOR

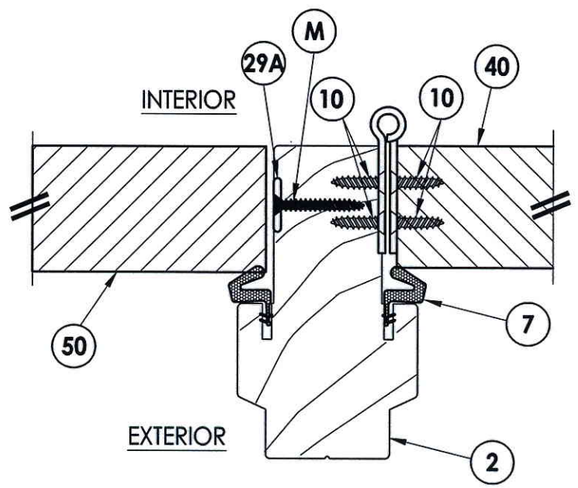
EXTERIOR



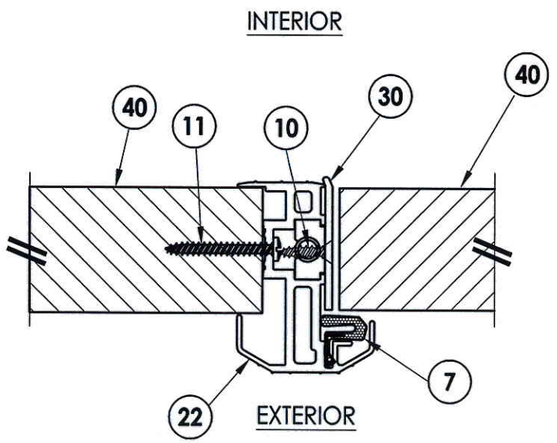

3/5 **HORIZONTAL CROSS SECTION**




2/5 **HORIZONTAL CROSS SECTION**




4/5 **HORIZONTAL CROSS SECTION**




5/5 **HORIZONTAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER

12.9.13

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: THERMA-TRU

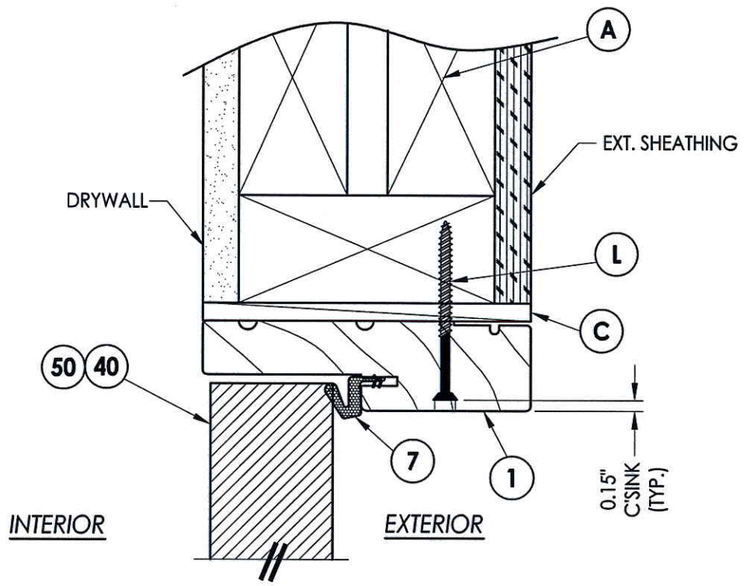
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

| NO. | DATE | BY |
|---|---|---|
| REVISIONS | | |

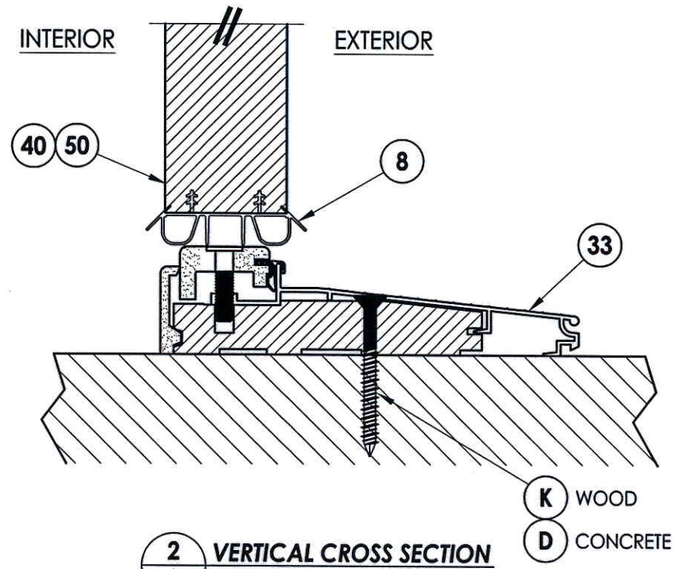
DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 5 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, 5.3




1/6 **VERTICAL CROSS SECTION**




2/6 **VERTICAL CROSS SECTION**
Inswing sill

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
PROFESSIONAL ENGINEER
2.19.13


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: *THERMA-TRU*

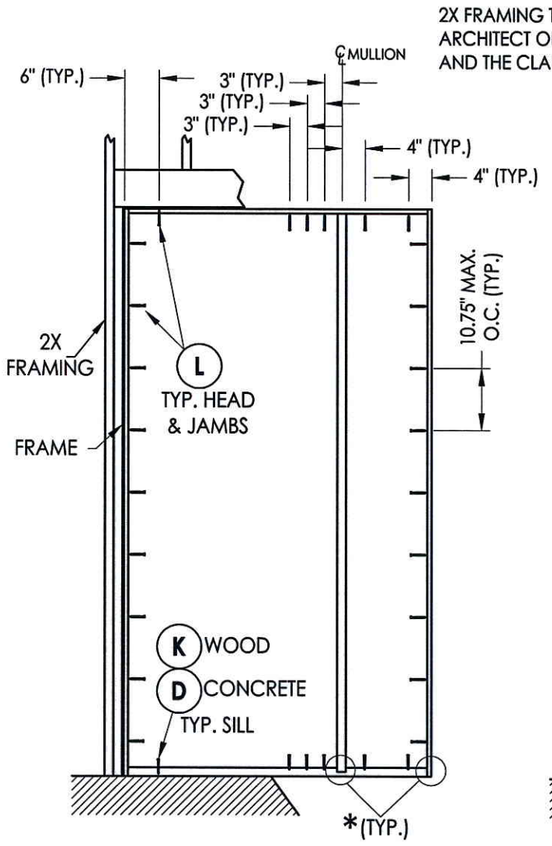
PART OR ASSEMBLY:
*VERTICAL CROSS SECTIONS*

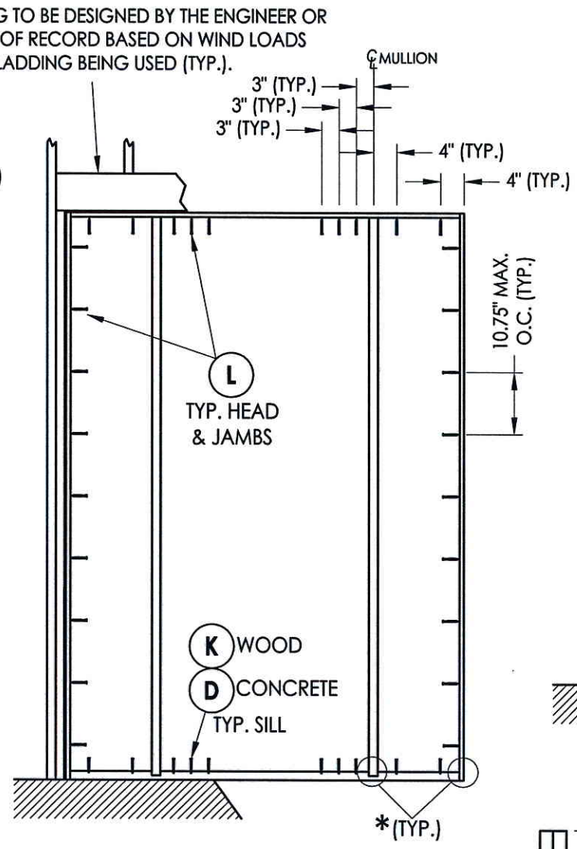
| NO. | DATE | REVISIONS | BY |
|---|---|---|---|

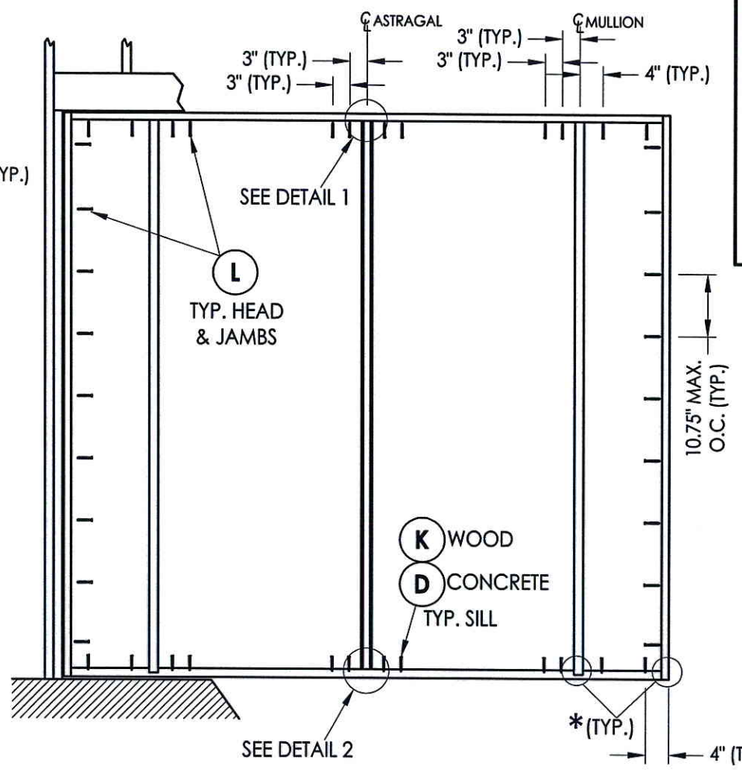
DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 6 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, 6.3



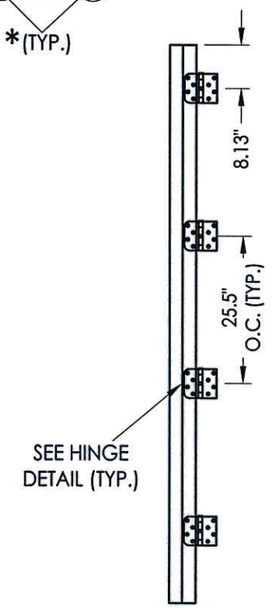




* The frame jambs and vertical mullions are secured to the head and sill with (3) #8 x 2-1/2" wood screws each.

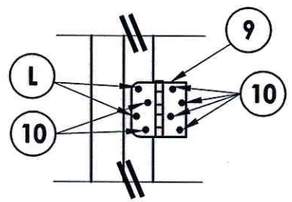
*CONCRETE ANCHOR NOTES:*

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:*

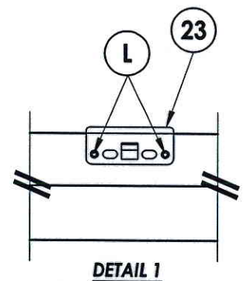
| ANCHOR TYPE | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|---|---|---|---|---|
| ITW TAPCON® | 1/4" | 1-3/4" | 2-1/2" | 3" |
| ELCO ULTRACON® | 1/4" | 1-3/4" | 1" | 3" |



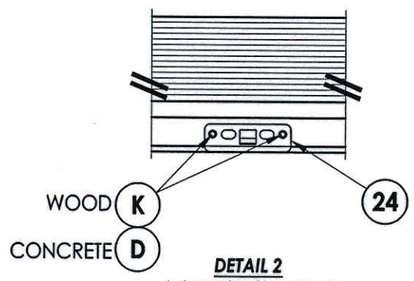

**HINGE JAMB**
Door & Sidelite




**HINGE DETAIL**




**DETAIL 1**
Astragal & Shootbolt
Strike plate @ head
(Multi-point Lockset)




**DETAIL 2**
Astragal & Shootbolt
Strike plate @ sill
(Multi-point Lockset)

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

R|W 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: *THERMA-TRU*

PART OR ASSEMBLY: *FRAME ANCHORING*

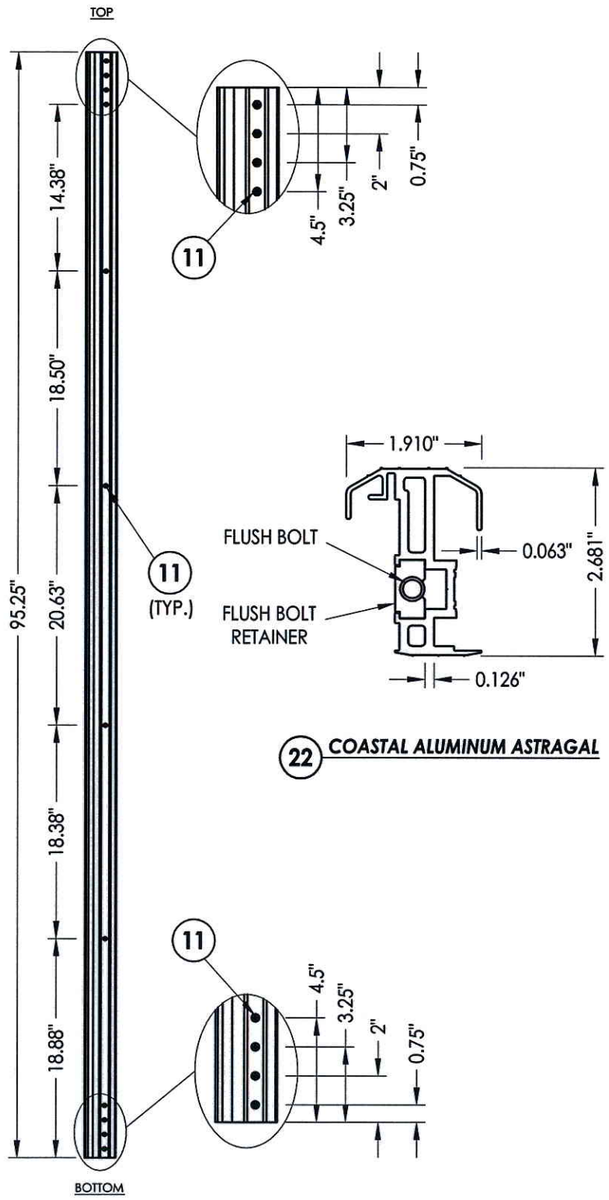
| NO. | DATE | BY |
|---|---|---|

REVISIONS

DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 7 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, 7.3

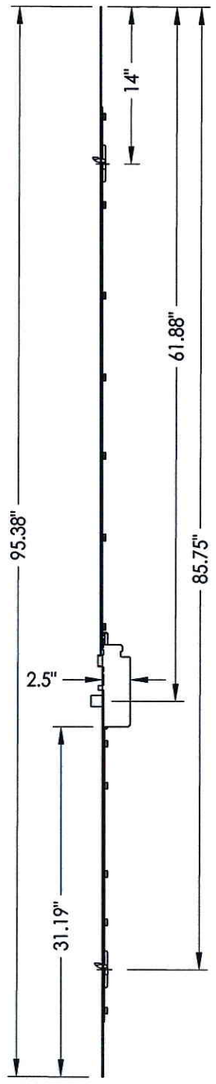




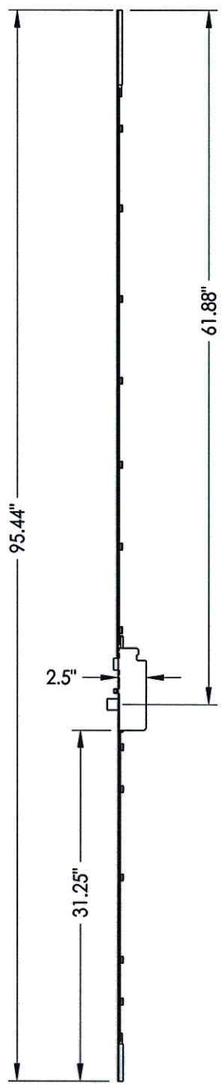


**22 COASTAL ALUMINUM ASTRAGAL**

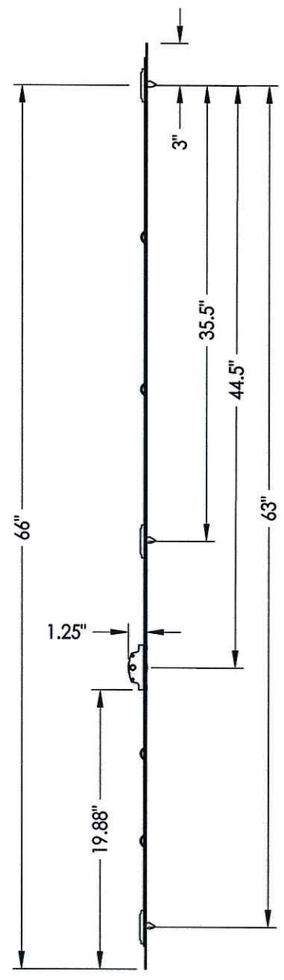
**ASTRAGAL DETAILS**




**HOPPE MULTI-POINT LOCK**
Manual Raised Tongue
Gear System
(Single Door)




**HOPPE MULTI-POINT LOCK**
Manual Shootbolt System
(Double Door)




**HOPPE MULTI-POINT LOCK**
Manual Raised Tongue
Gear System
(Sidelite)

**HOPPE MULTI-POINT LOCK SYSTEMS**

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
2.19.13

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: THERMA TRU

PART OR ASSEMBLY: HARDWARE DETAILS

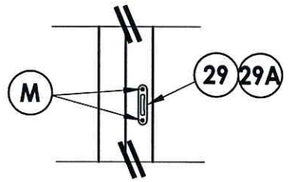
| NO. | DATE | BY |
|---|---|---|
| | | |

REVISIONS

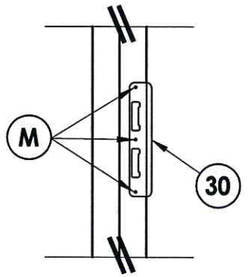
DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 8 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

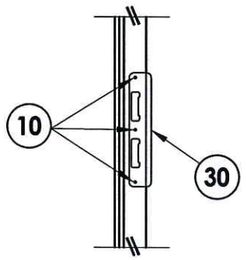
R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, 8.3



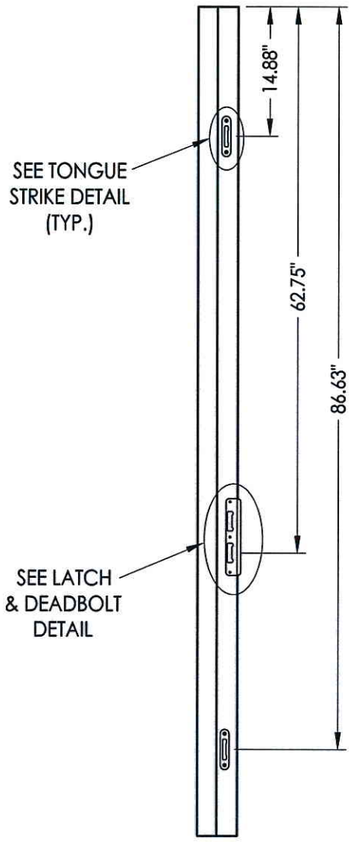

***TONGUE STRIKE DETAIL***
Single Door/Sidelite



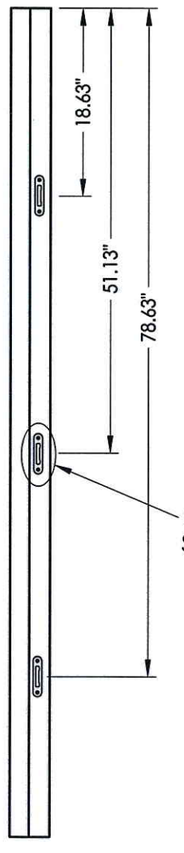

***LATCH & DEADBOLT DETAIL***
Single Door



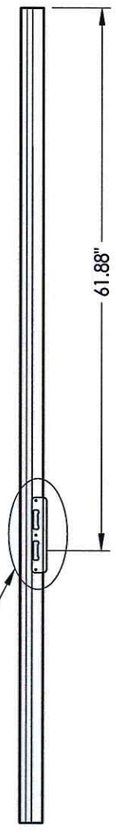

***LATCH & DEADBOLT DETAIL***
Double Door




***STRIKE JAMB / MULLION***
Single Door

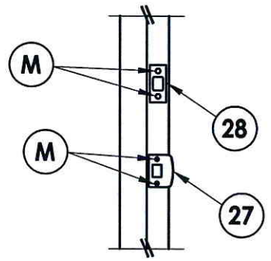



***STRIKE MULLION***
Sidelite

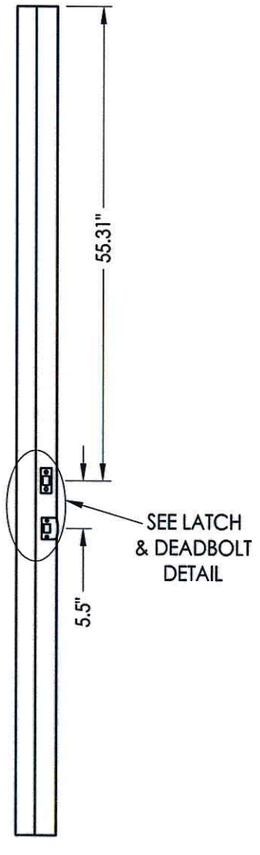



***ASTRAGAL STRIKE***
Double Door

## *MULTI-POINT LOCK STRIKE DETAILS*




***LATCH & DEADBOLT DETAIL***
Single Door




***STRIKE JAMB / MULLION***
Single Door

## *LATCH & DEADBOLT STRIKE DETAILS*


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

R|W 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


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

12-19-18

PRODUCT: *THERMA-TRU*

PART OR ASSEMBLY: *HARDWARE STRIKE DETAILS*

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|

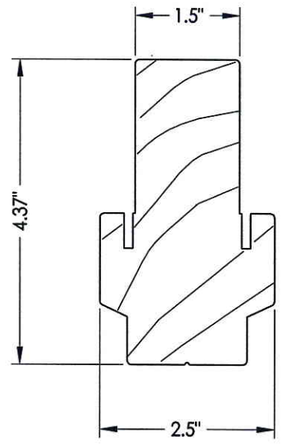
DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 9 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

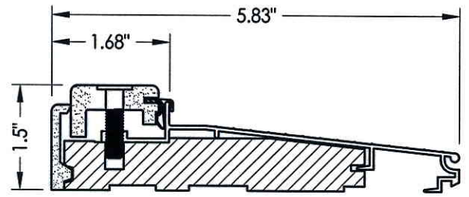
R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, 9.3

## BILL OF MATERIALS

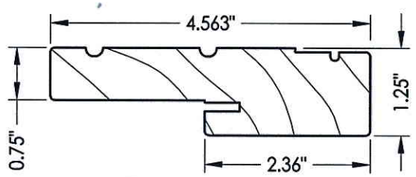
| ITEM # | DESCRIPTION | MATERIAL |
|---|---|---|
| A | 2X FRAMING (G >= 0.42) | WOOD |
| C | 1/4" MAX. SHIM SPACE | - |
| D | 1/4" ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT) | STEEL |
| K | #12 X 3" PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT) | STEEL |
| L | #10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT) | STEEL |
| M | #8 X 1-1/4" PFH WOOD SCREW | STEEL |
| 1 | HEAD AND SIDE JAMB (FINGER-JONTED PINE) (G >= 0.42) | WOOD |
| 2 | INTEGRAL MULLION (FINGER-JONTED PINE) (G >= 0.42) | WOOD |
| 7 | WEATHER-STRIP (THERMA-TRU) | FOAM |
| 8 | DOOR BOTTOM SWEEP | PVC |
| 9 | 4" X 4" HINGE | STEEL |
| 10 | #10 X 3/4" PFH WOOD SCREW | STEEL |
| 11 | #10 X 1-3/4" PFH WOOD SCREW | STEEL |
| 22 | COASTAL ALUMINUM ASTRAGAL | ALUM |
| 23 | ASTRAGAL & SHOOTBOLT STRIKE PLATE (AT HEAD) | STEEL |
| 24 | ASTRAGAL & SHOOTBOLT STRIKE PLATE (AT SILL) | STEEL |
| 27 | LATCH STRIKE PLATE (STANDARD) | STEEL |
| 28 | DEADBOLT STRIKE PLATE (STANDARD) | STEEL |
| 29 | TONGUE STRIKE PLATE (DOOR TONGUE SYSTEM) | STEEL |
| 29A | TONGUE STRIKE PLATE (SIDELITE TONGUE SYSTEM) | STEEL |
| 30 | LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM) | STEEL |
| 33 | INSWING THRESHOLD | ALUM/COMP |
| 40 | FIBERGLASS DOOR PANEL - SMOOTH STAR / FIBER CLASSIC | - |
| 50 | FIBERGLASS SIDELITE PANEL - SMOOTH STAR / FIBER CLASSIC | - |



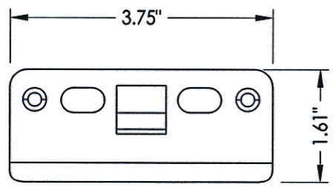

**2 INTEGRAL MULLION**



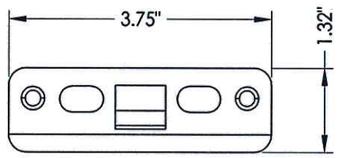

**33 INSWING THRESHOLD**



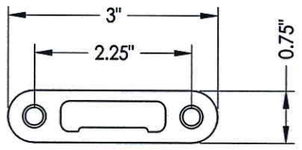

**1 HEAD & JAMB**



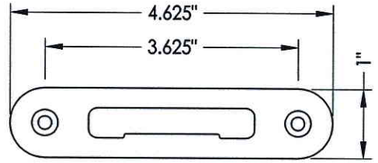

**23 ASTRAGAL & SHOOTBOLT**
Strike plate @ head



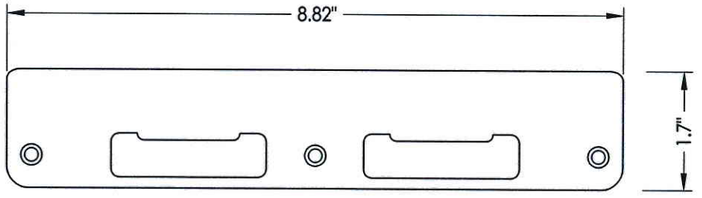

**24 ASTRAGAL & SHOOTBOLT**
Strike plate @ sill




**29A TONGUE STRIKE PLATE**
Sidelite Tongue system




**29 TONGUE STRIKE PLATE**
Door Tongue system




**30 LATCH & DEADBOLT STRIKE PLATE**
Tongue system

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
12-19-12

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

R|W 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: THERMA TRU

PART OR ASSEMBLY: BILL OF MATERIAL & COMPONENTS

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|

DATE: 1/2/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4292
SHEET 10 OF 10

© 2013 R.W. BUILDING CONSULTANTS INC.

R:\A - Projects\Project Folders\Proj 1701 - 1800\PF 1702\D. RWBC Drawings\TX-4292.dwg, 10.3