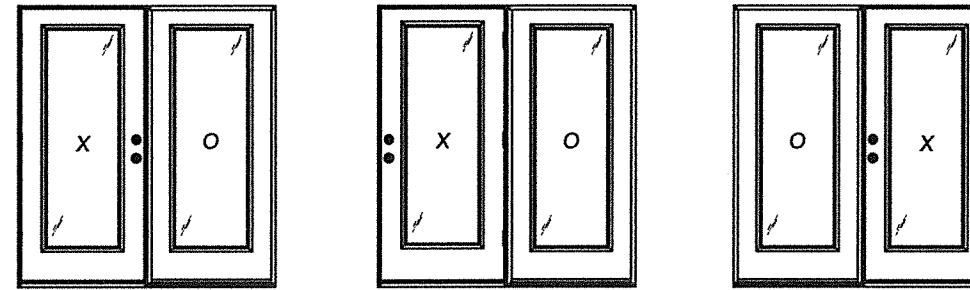


THERMA-TRU[®] DOORS

Fiber-Classic[®] & Smooth-Star[®]

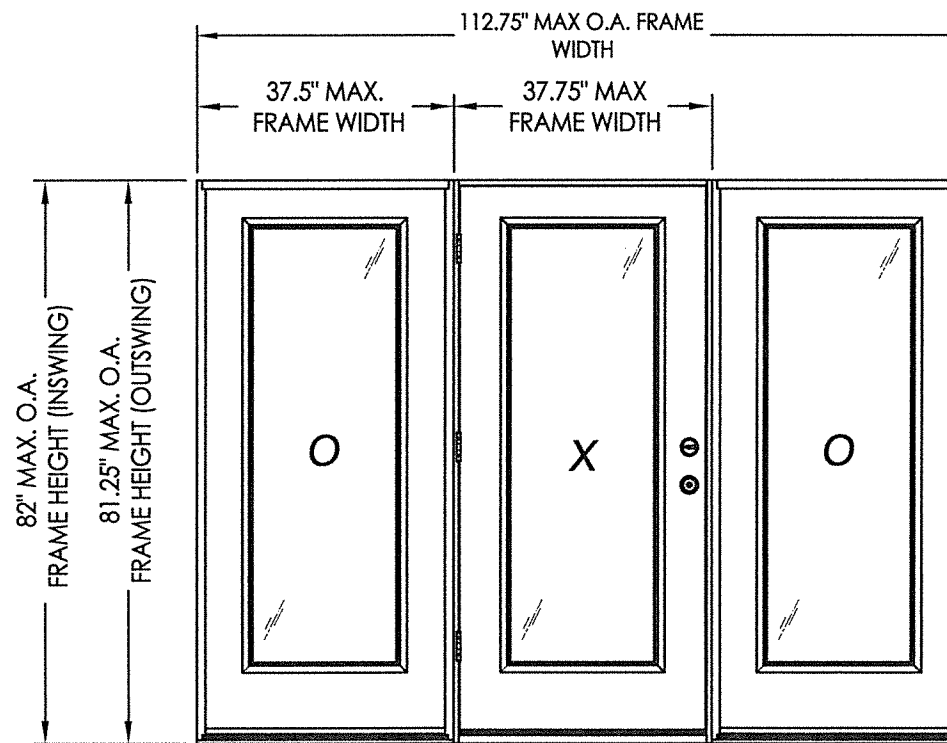
GLAZED MOLDED OPEN FIBERGLASS SINGLE DOOR w/ SIDELITE(S) IN SWING/OUT SWING "IMPACT"



XO

XO

OX



EVALUATED FOR USE IN THE STATE OF TEXAS

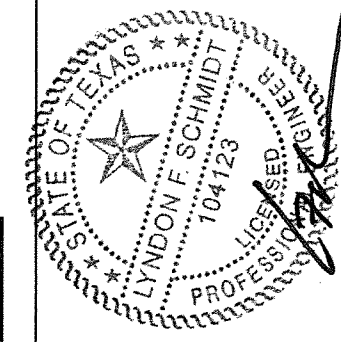
The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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. This system has been tested and evaluated as a large missile impact protective system for installation in areas that require wind borne debris protection. 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.
5. Fiber-Classic and Smooth-Star Door & Sidelite panels require the use of "J" part numbers. These door panels must be stained or painted within six months of installation.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Sidelite Panel Details
4	Elevations
5	Horizontal & Vertical Cross Sections (2X Buck)
6	Vertical Cross Sections (Thresholds)
7	Frame Anchoring
8	Hardware Details
9	Life Frame & Glazing Details
10	Bill of Materials & Components

CONFIGURATION	LOCK TYPE	DESIGN PRESSURE (PSF) IN SWING		DESIGN PRESSURE (PSF) OUT SWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	LATCH & DEADBOLT	+55.0	-65.0	+60.0	-60.0
	MULTIPOINT LOCK	+50.0	-50.0	+50.0	-50.0



6.8.21

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

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

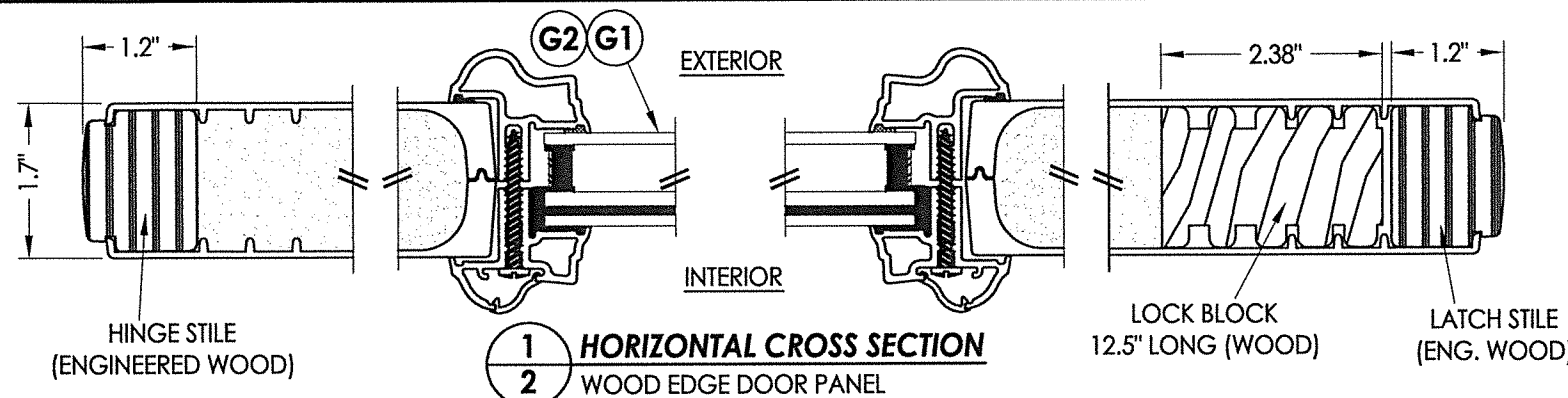
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

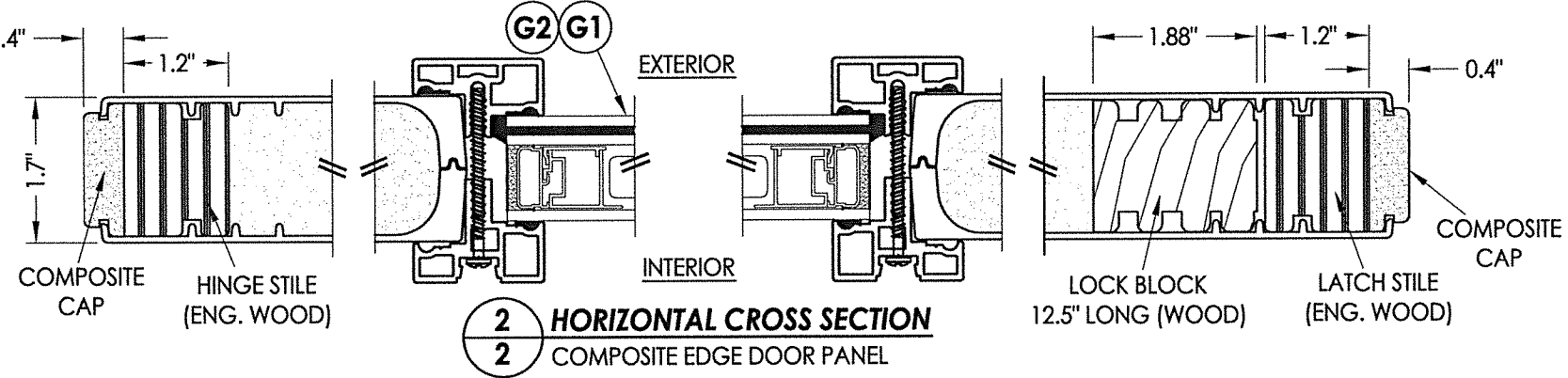
NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5210
SHEET 1 OF 10

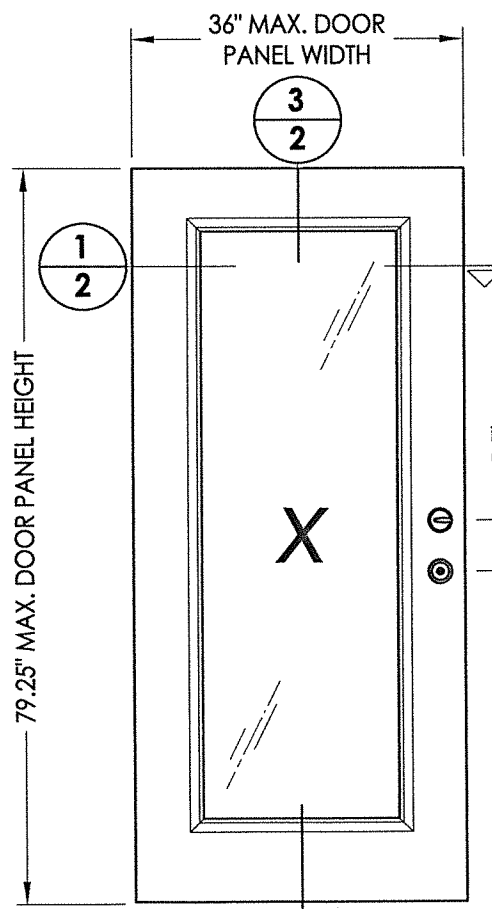
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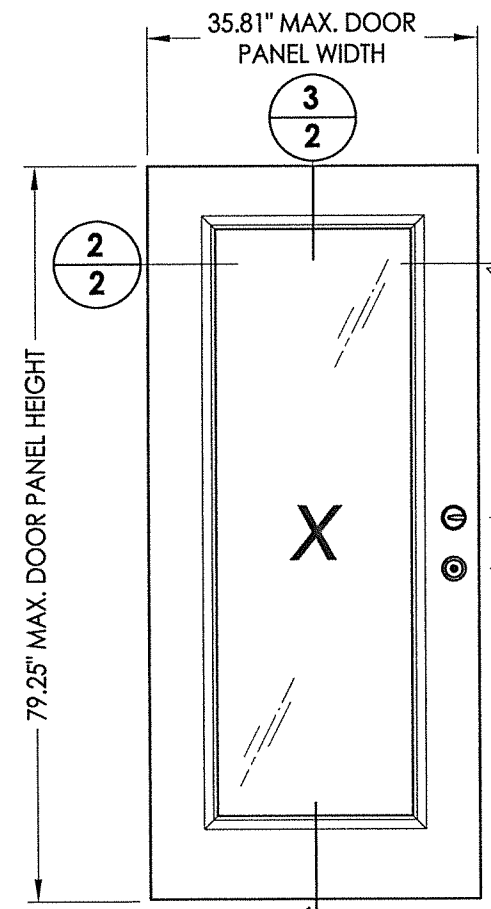
1 HORIZONTAL CROSS SECTION
2 WOOD EDGE DOOR PANEL



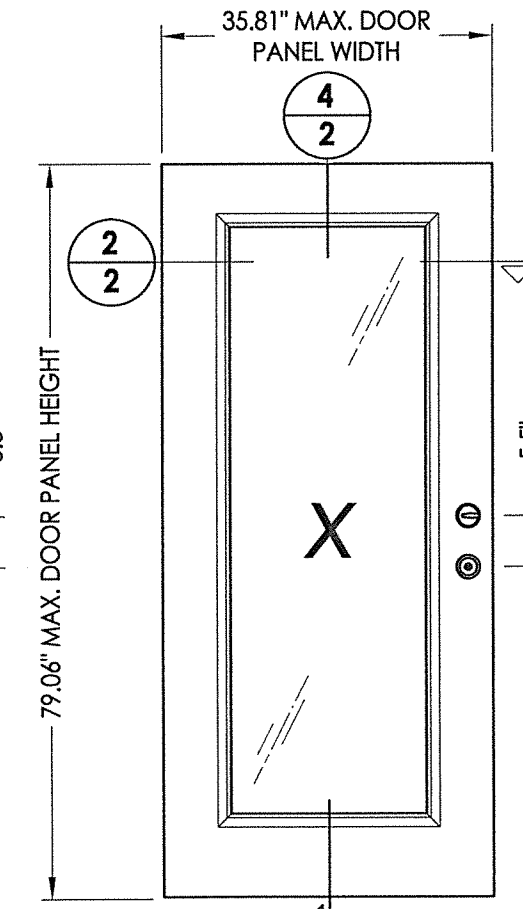
2 HORIZONTAL CROSS SECTION
2 COMPOSITE EDGE DOOR PANEL



40 FIBERGLASS DOOR PANEL
BOOK DOOR
MOLDED OPEN

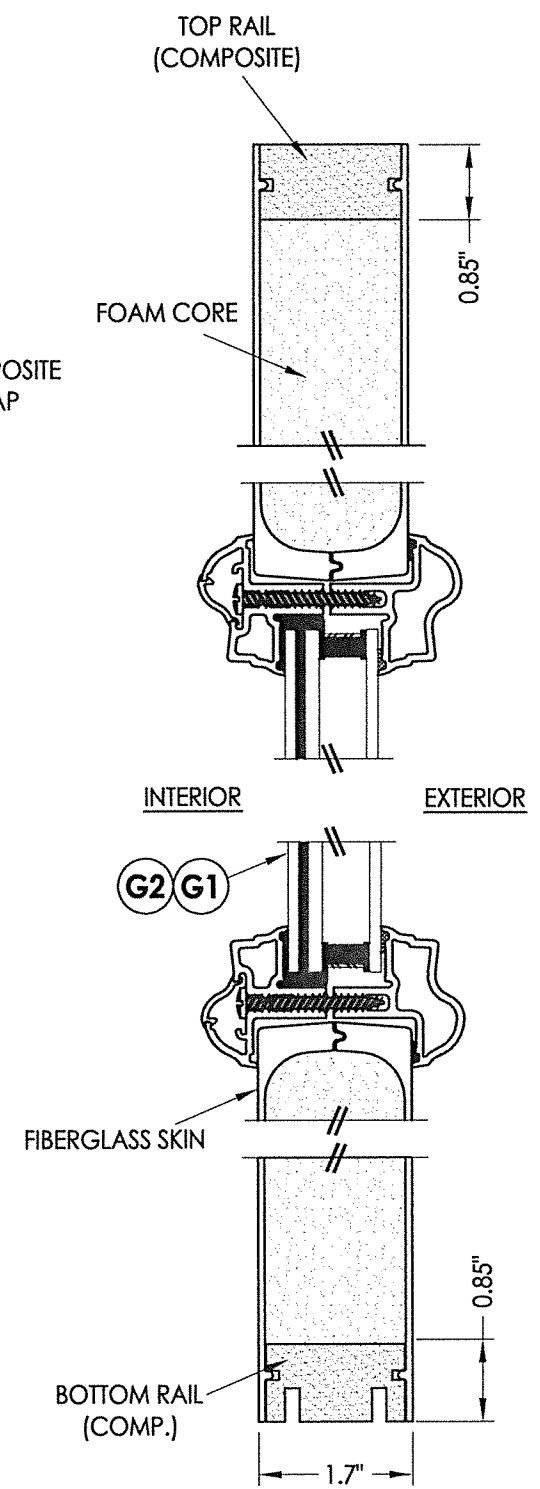
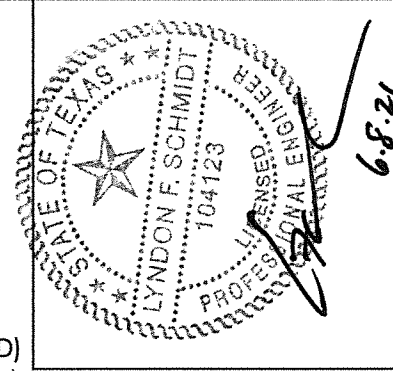


41 FIBERGLASS DOOR PANEL
HYBRID DOOR
MOLDED OPEN

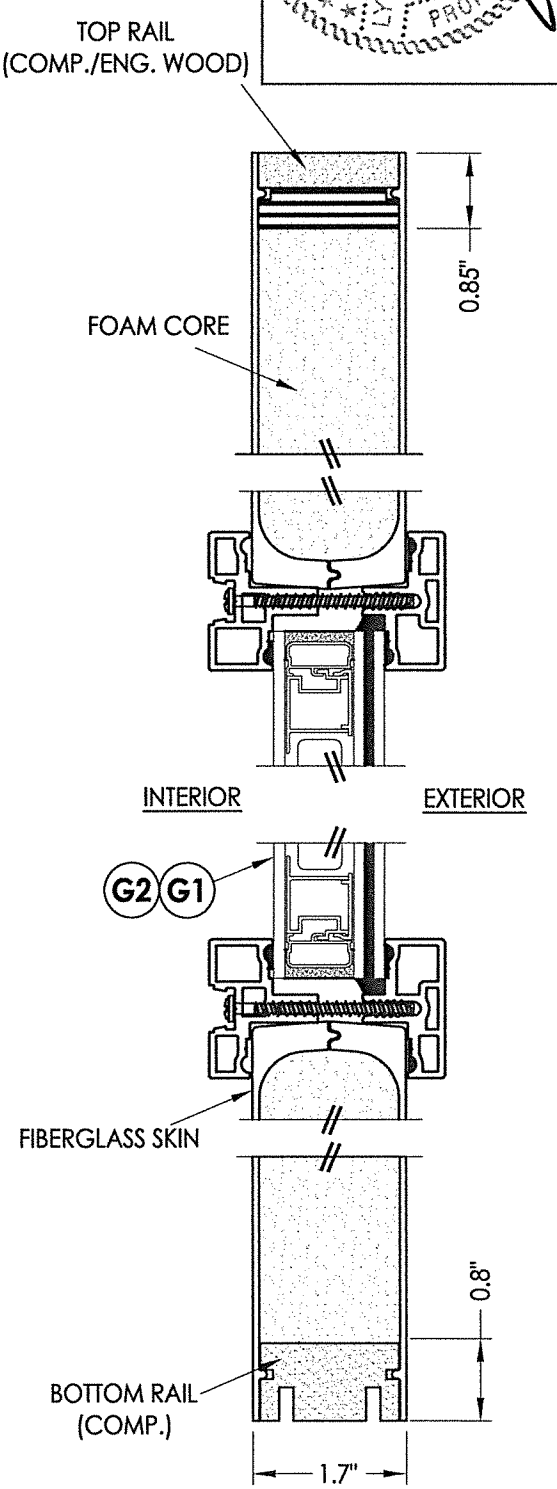


42 FIBERGLASS DOOR PANEL
U1 DOOR
MOLDED OPEN

NOTE: BOOK, HYBRID & U1 DOORS
MAY EACH BE FABRICATED AS WOOD
OR COMPOSITE EDGE DOORS.



3 VERTICAL CROSS SECTION
2 WOOD EDGE DOOR PANEL



4 VERTICAL CROSS SECTION
2 COMPOSITE EDGE DOOR PANEL

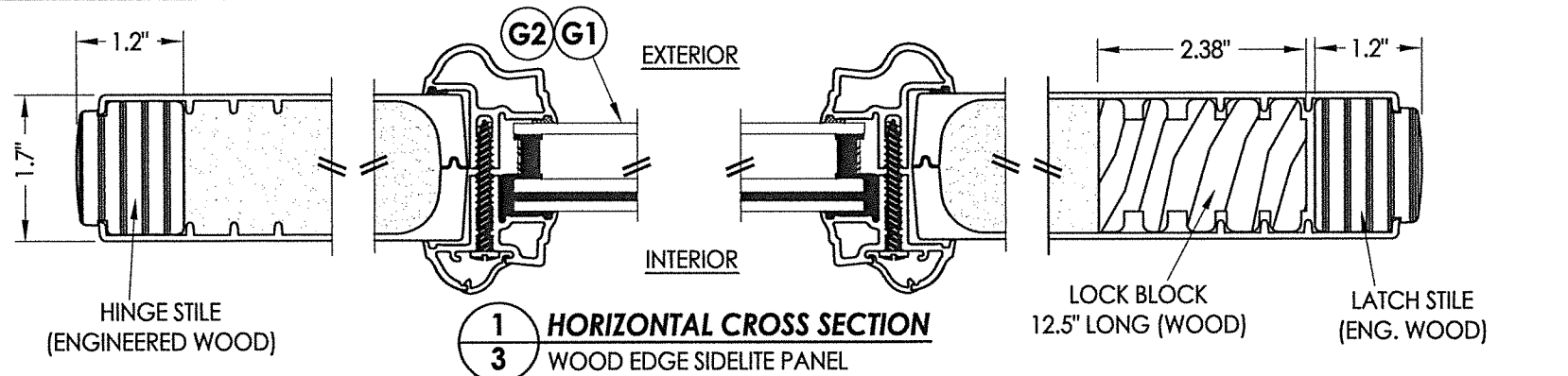
Documents Prepared By: Lyndon F. Schmidt, P.E.
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY: DOOR PANEL DETAILS

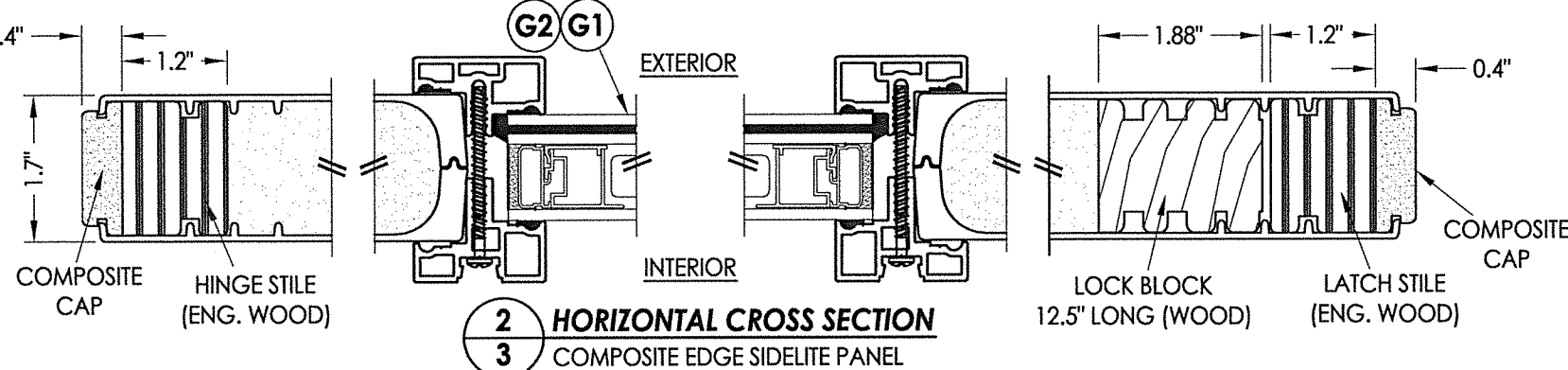
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SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5210
SHEET 2 OF 10

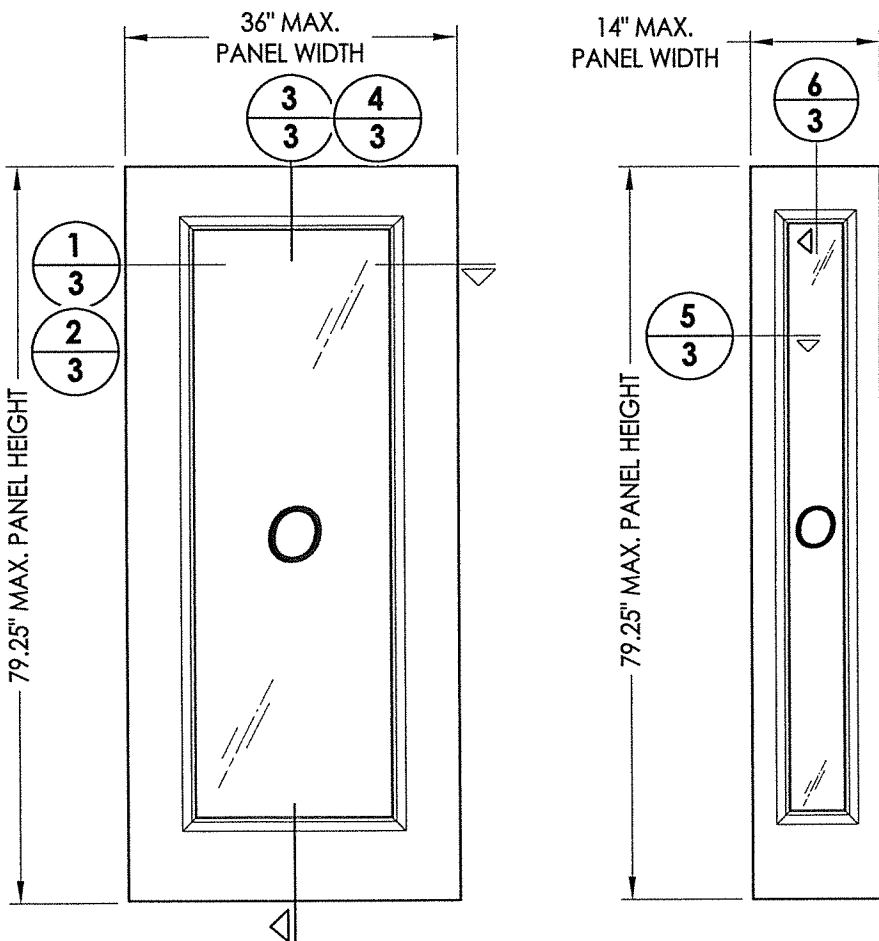
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1 HORIZONTAL CROSS SECTION
3 WOOD EDGE SIDELITE PANEL

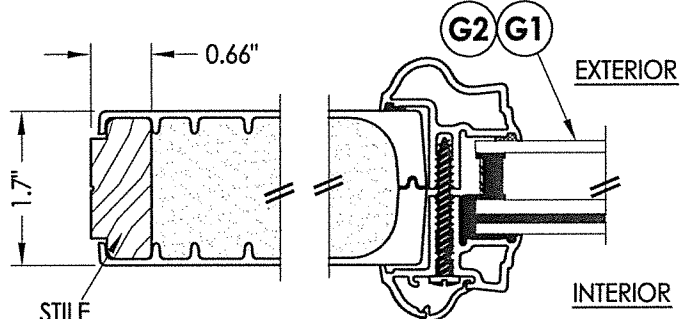


2 HORIZONTAL CROSS SECTION
3 COMPOSITE EDGE SIDELITE PANEL

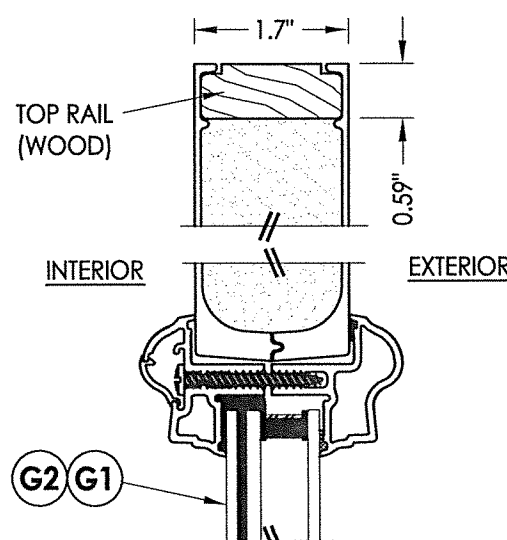


50 FIBERGLASS SIDELITE PANEL
36\"/>

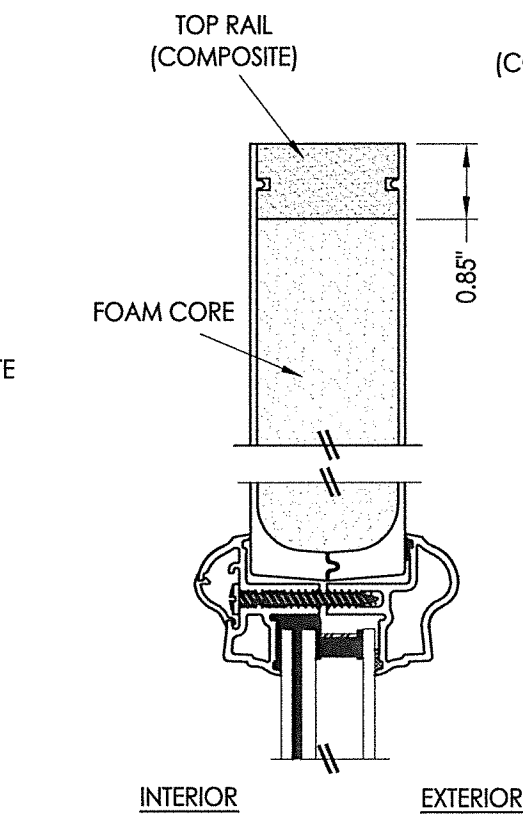
50 SIDELITE PANEL
14\"/>



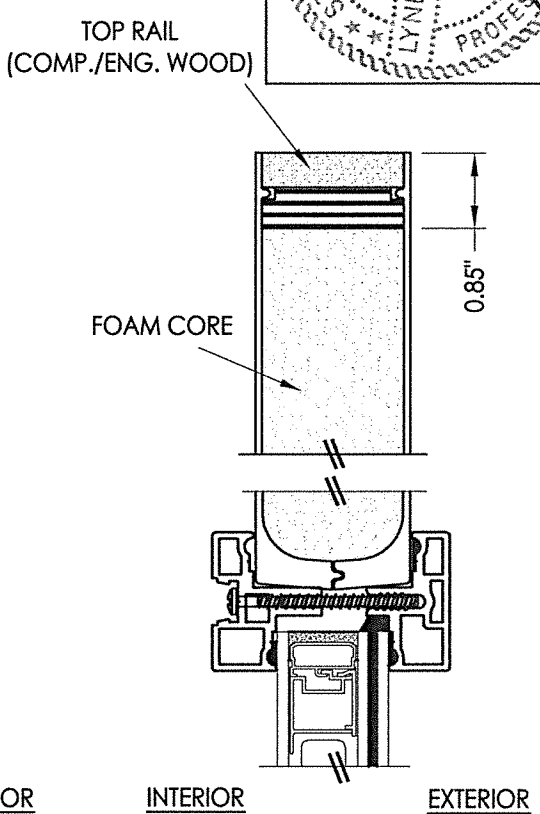
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3 14\"/>



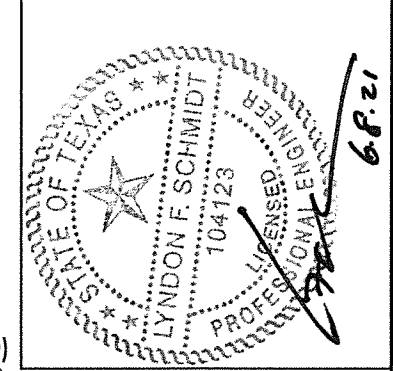
6 VERTICAL CROSS SECTION
3 14\"/>



3 VERTICAL CROSS SECTION
3 WOOD EDGE SIDELITE PANEL



4 VERTICAL CROSS SECTION
3 COMPOSITE EDGE SIDELITE PANEL



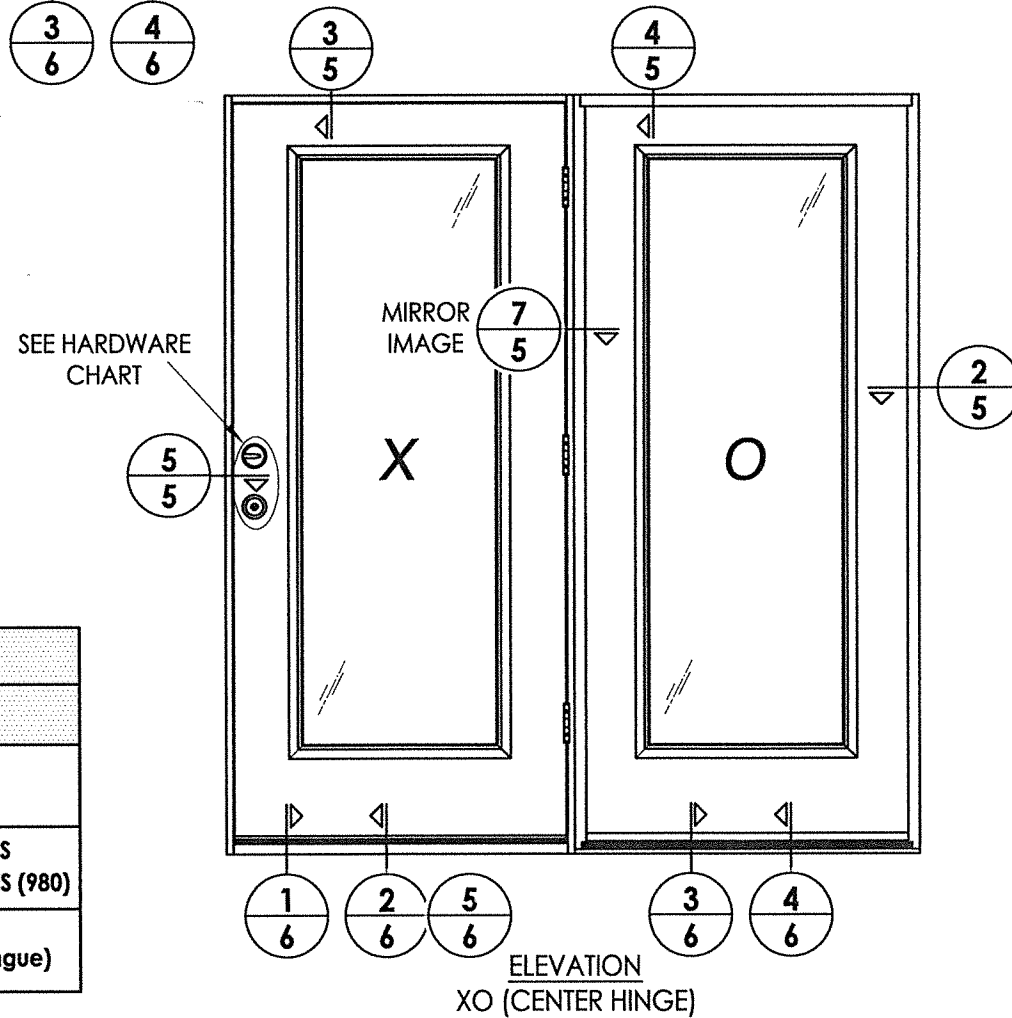
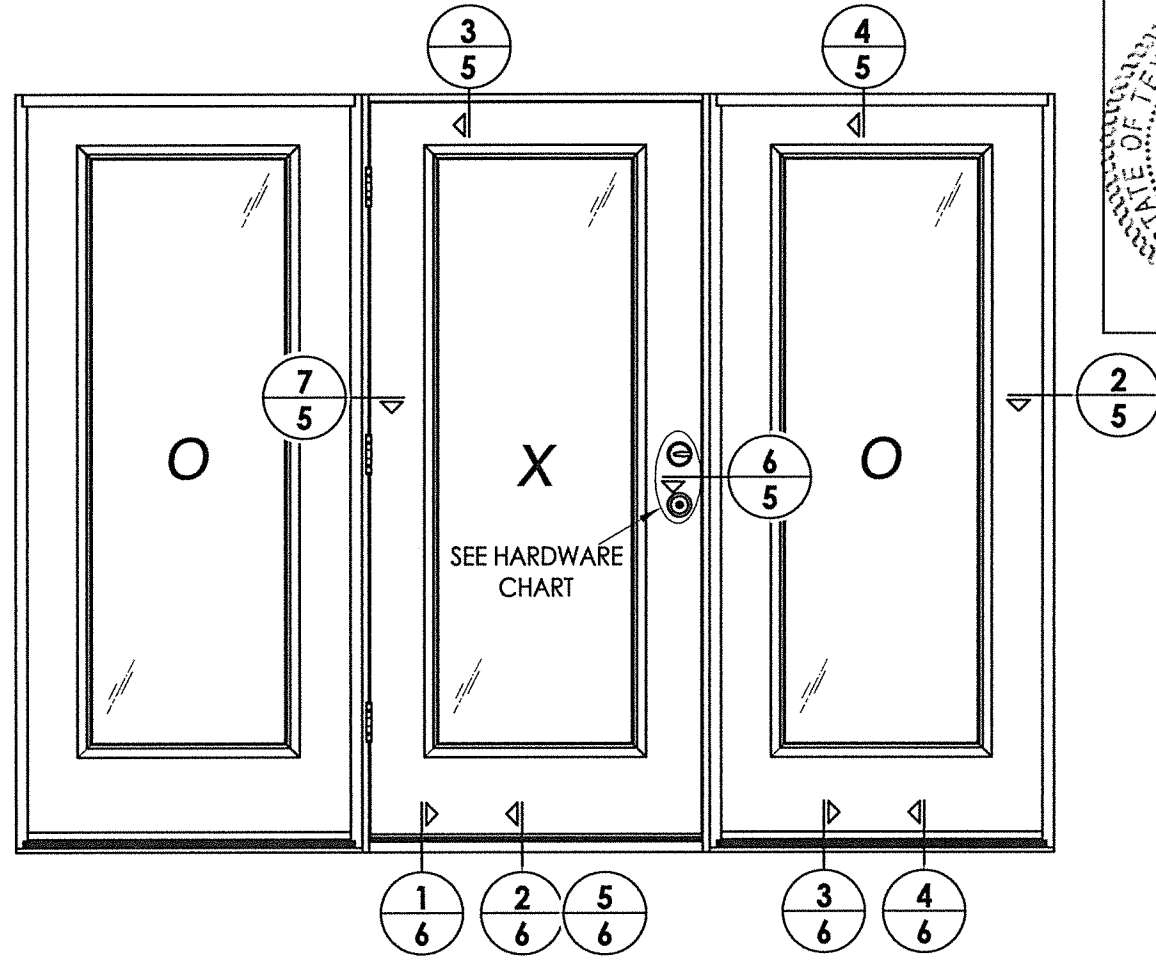
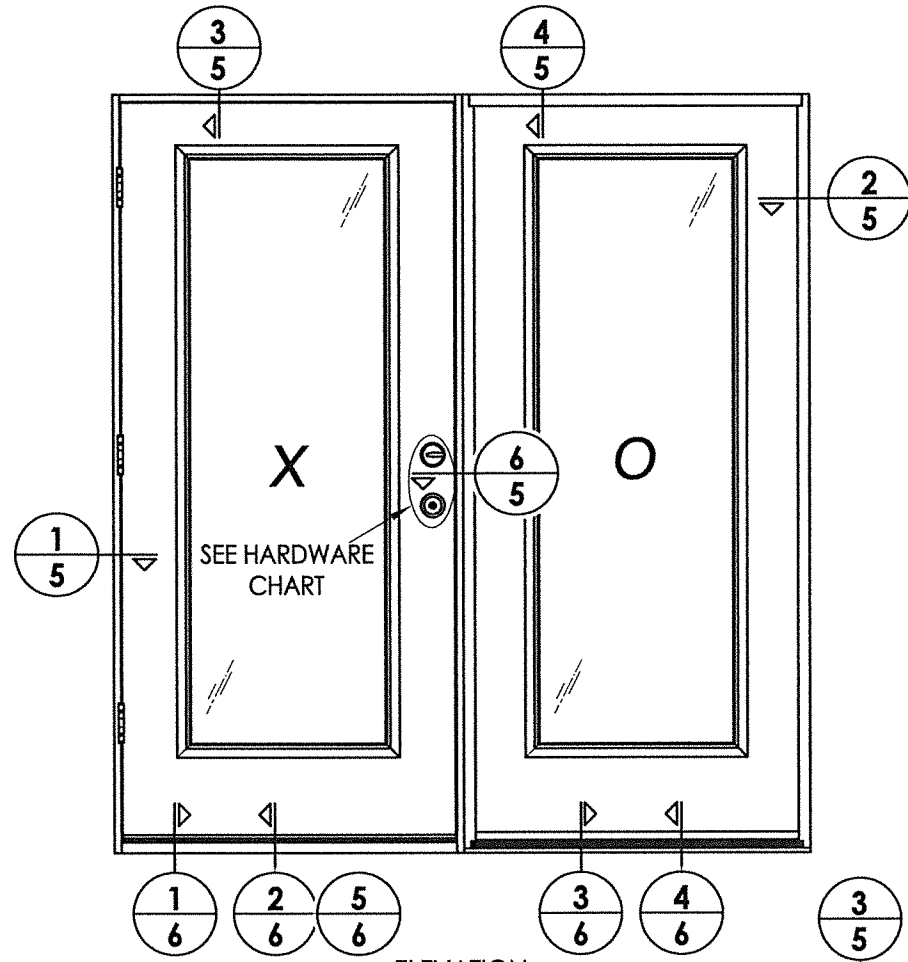
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY: SIDELITE PANEL DETAILS

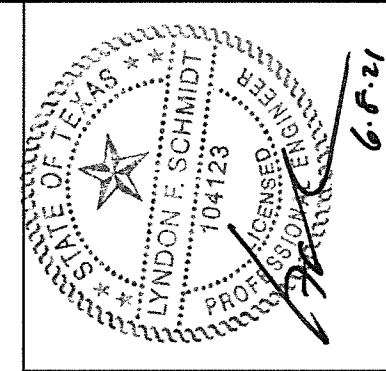
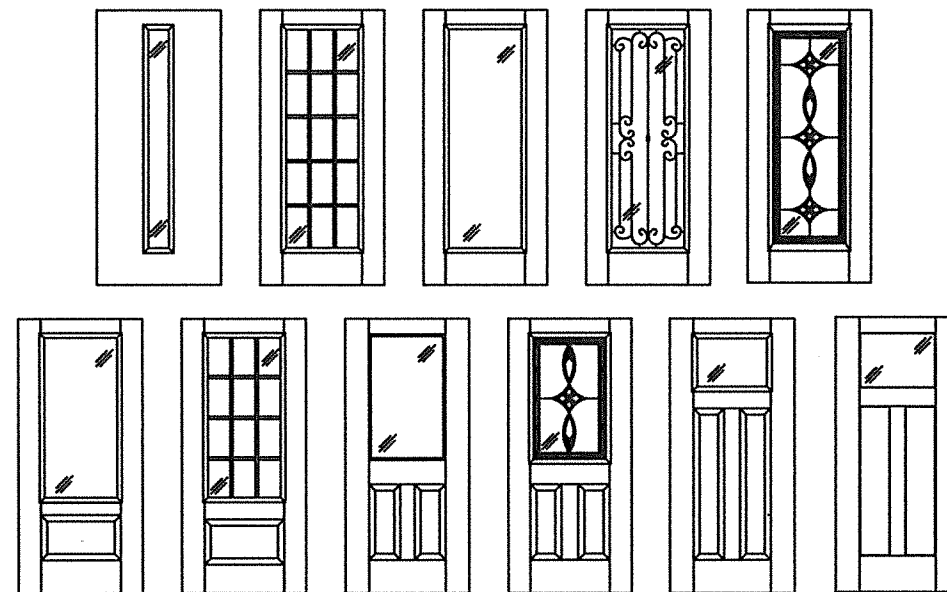
NO.	DATE	BY

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
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SHEET 3 OF 10

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HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51
	DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)



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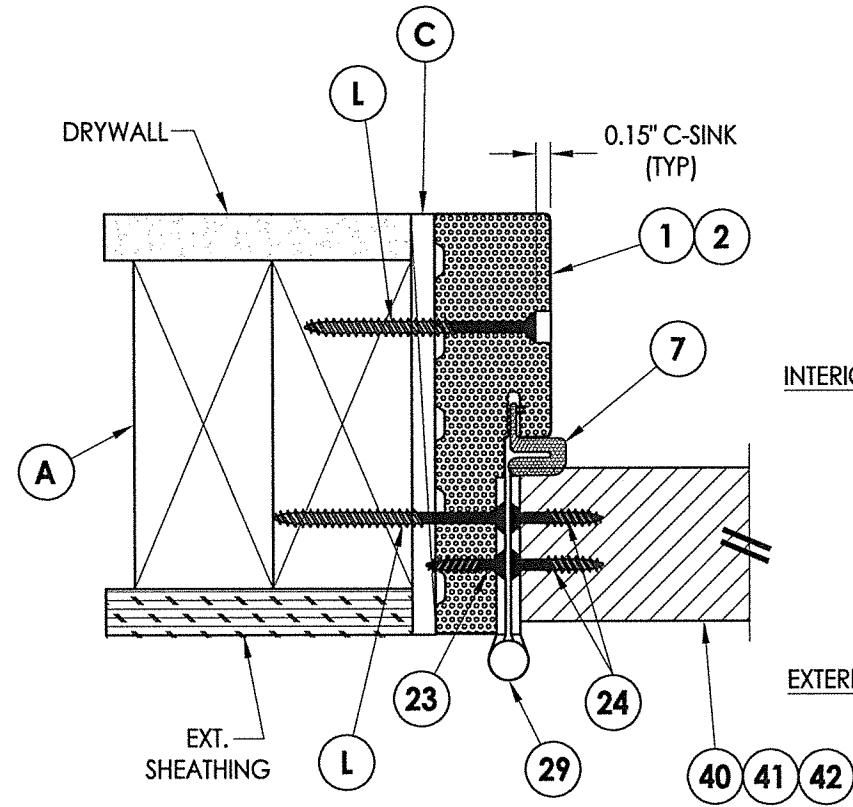
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY: ELEVATIONS

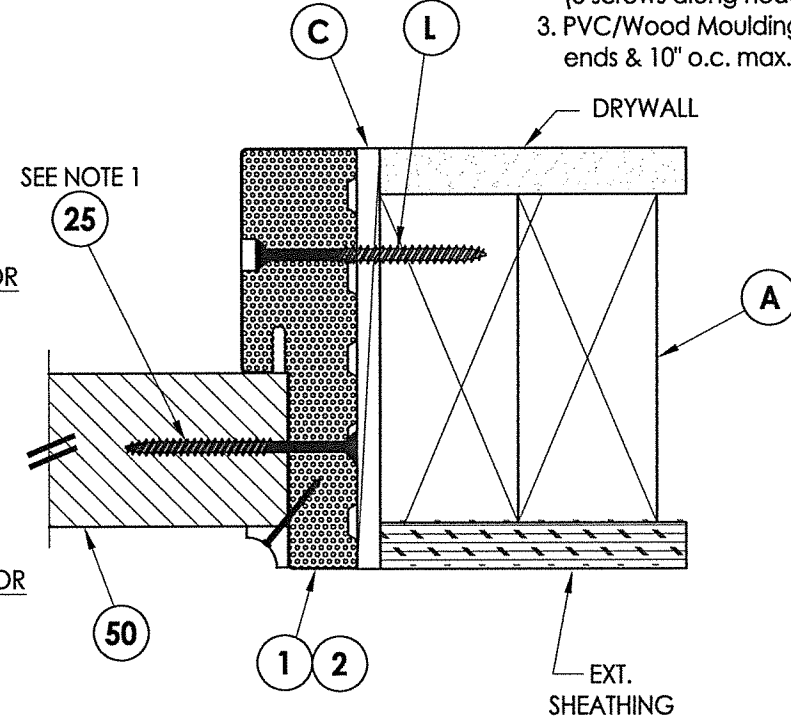
NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5210
SHEET 4 OF 10

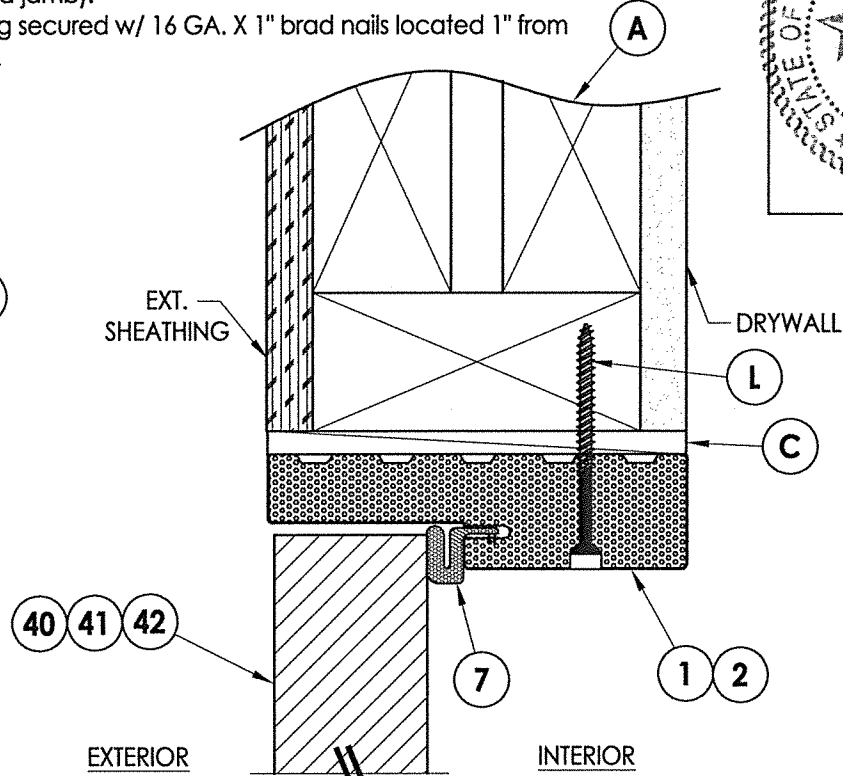
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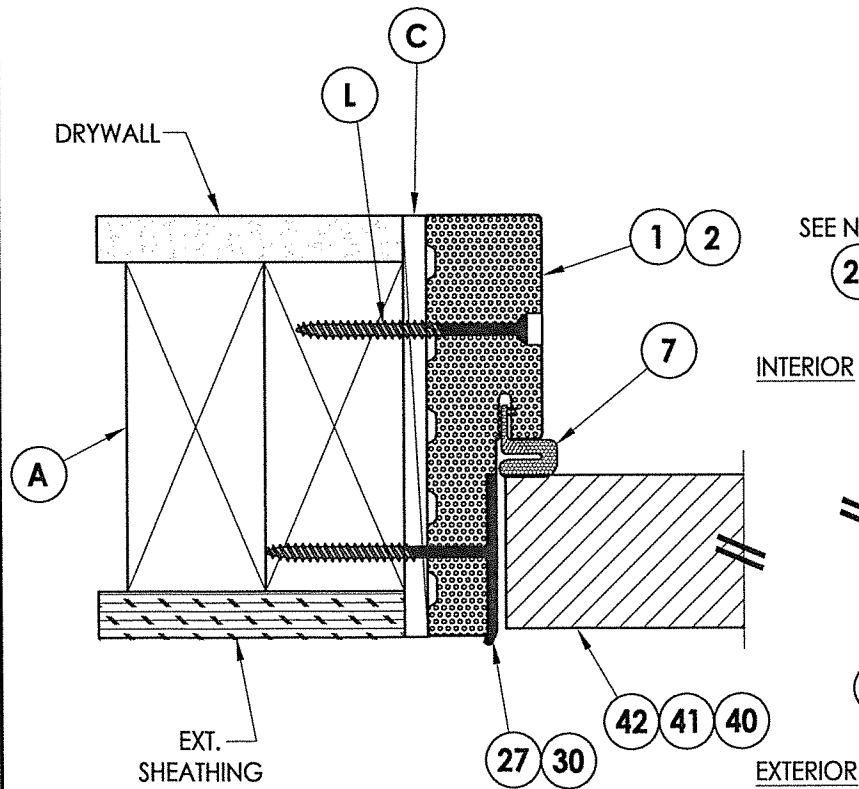
1 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



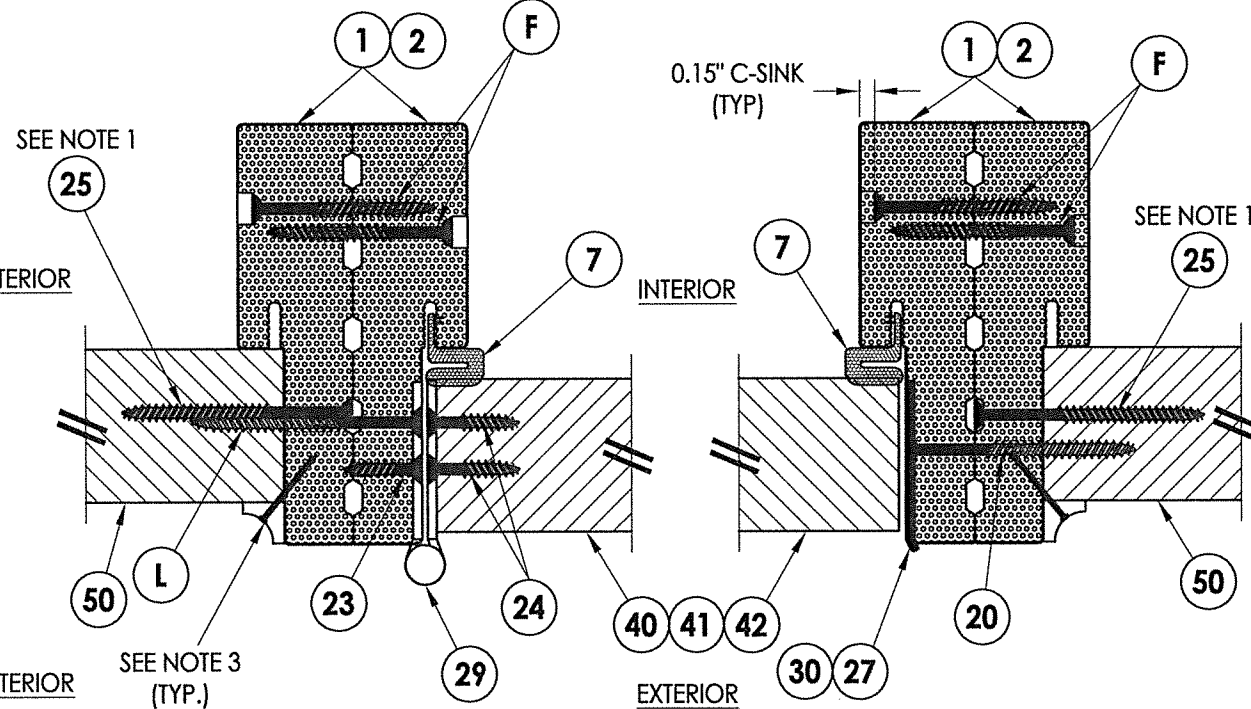
2 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



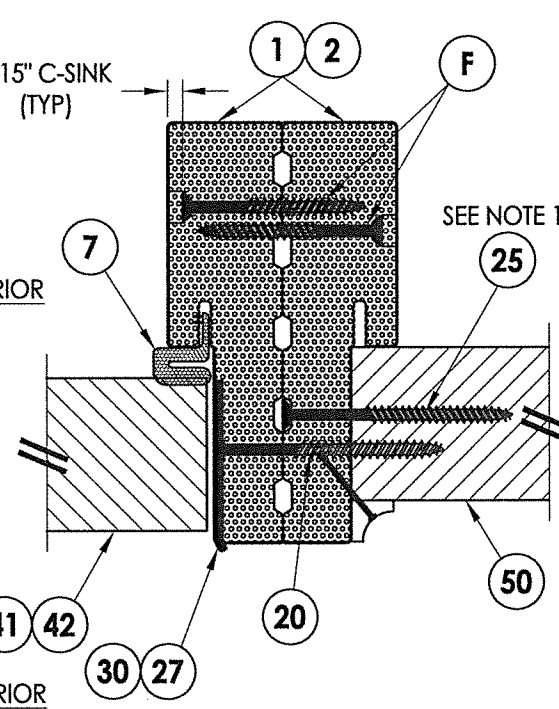
3 VERTICAL CROSS SECTION
5 Outswing shown (Inswing similar)



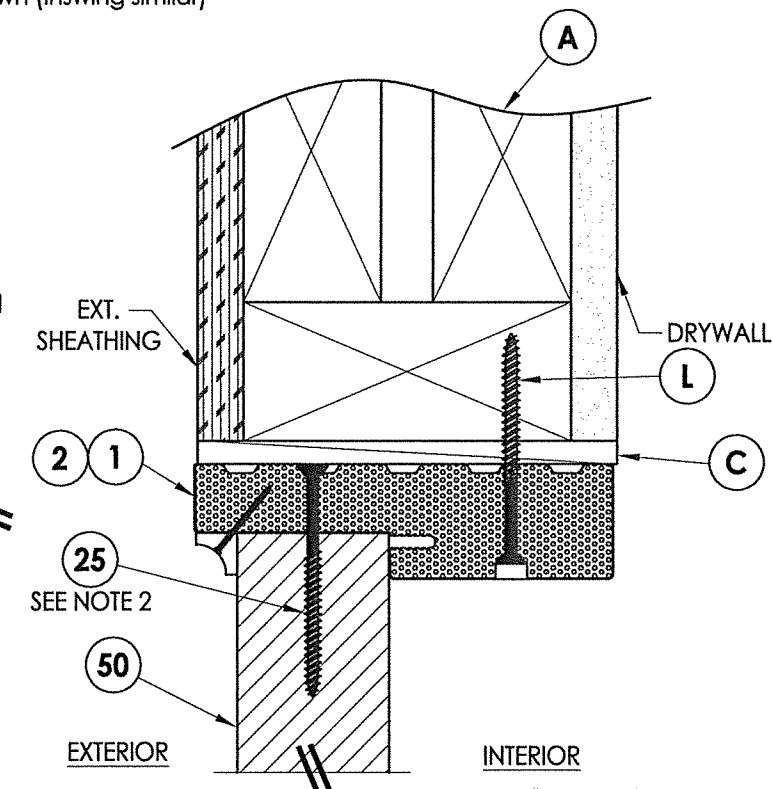
5 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



7 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



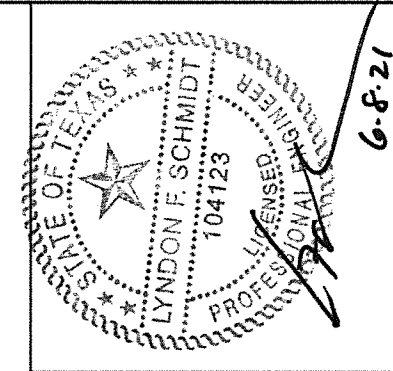
6 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



4 VERTICAL CROSS SECTION
5 Outswing shown (Inswing similar)

Notes:

1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end and @ centerline (3 screws along head jamb).
3. PVC/Wood Moulding secured w/ 16 GA. X 1" brad nails located 1" from ends & 10" o.c. max.



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

PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)

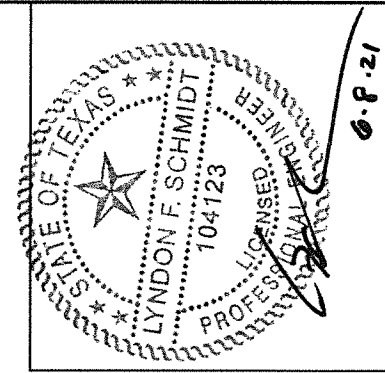
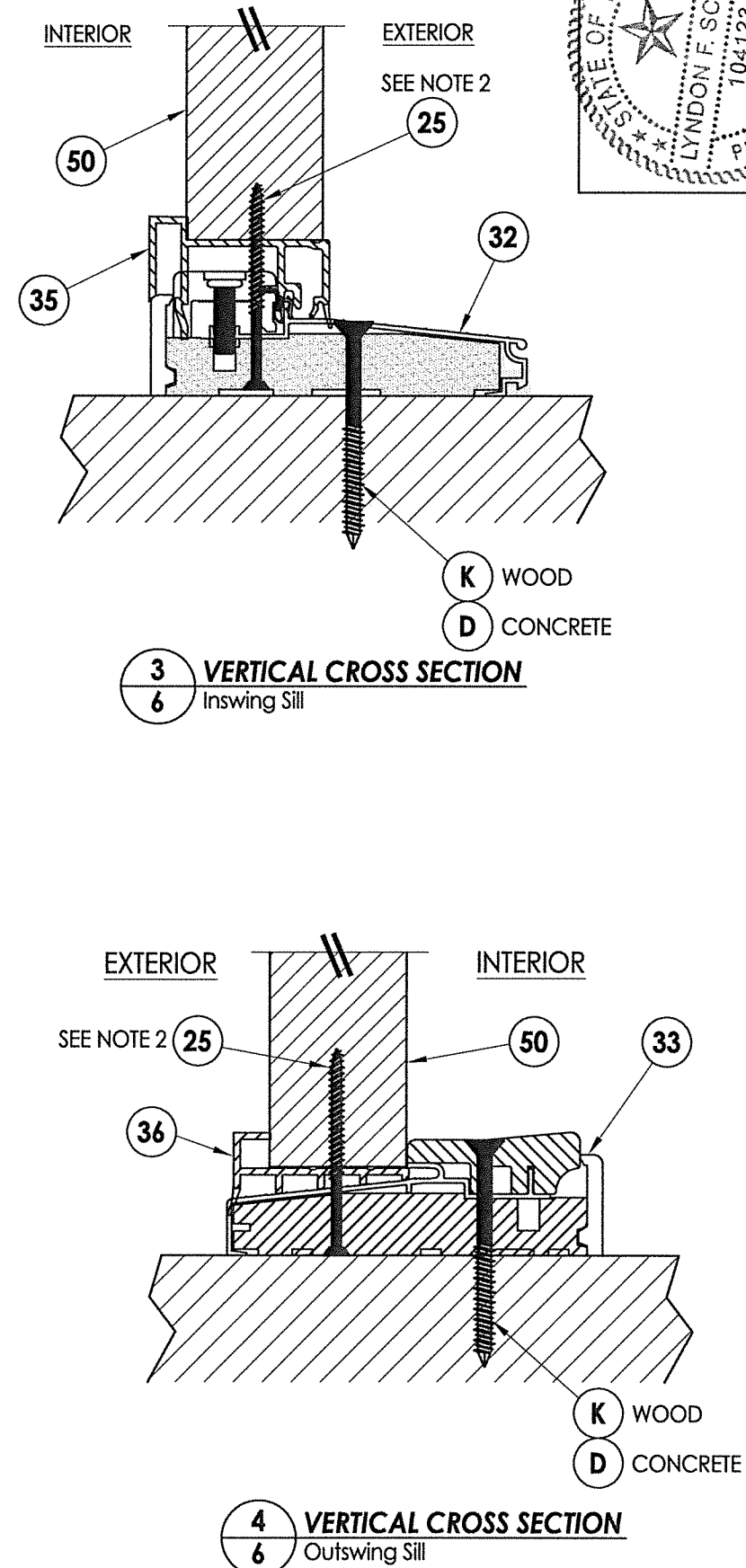
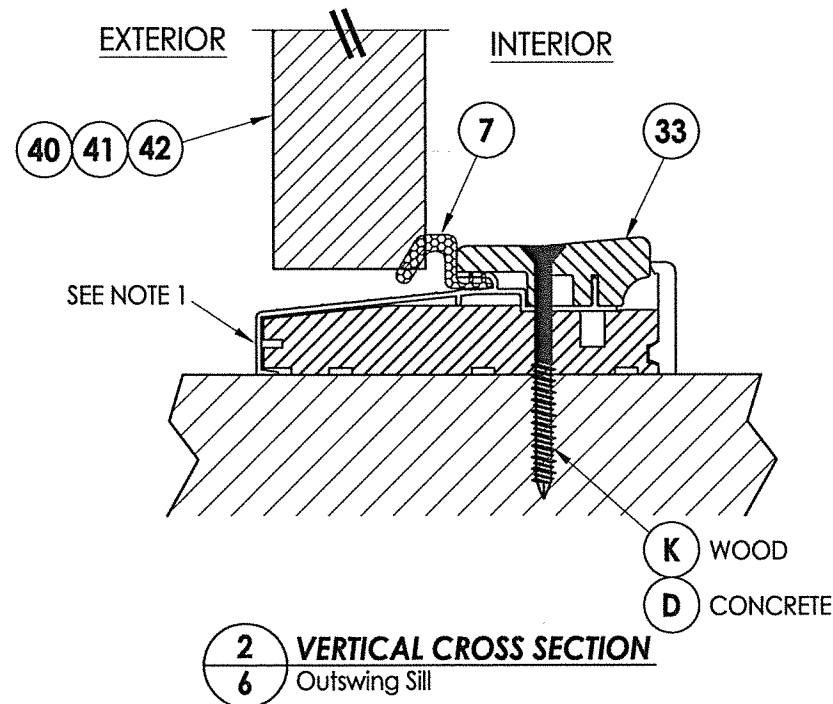
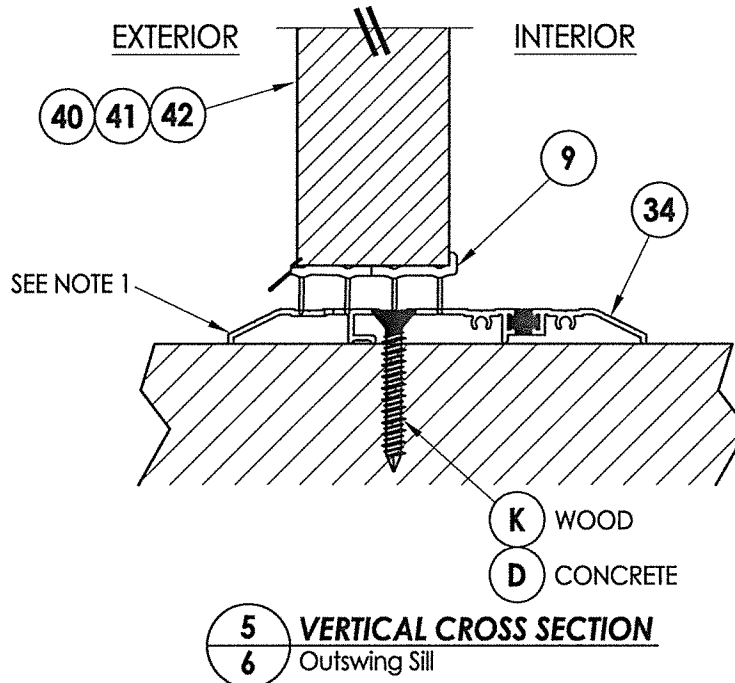
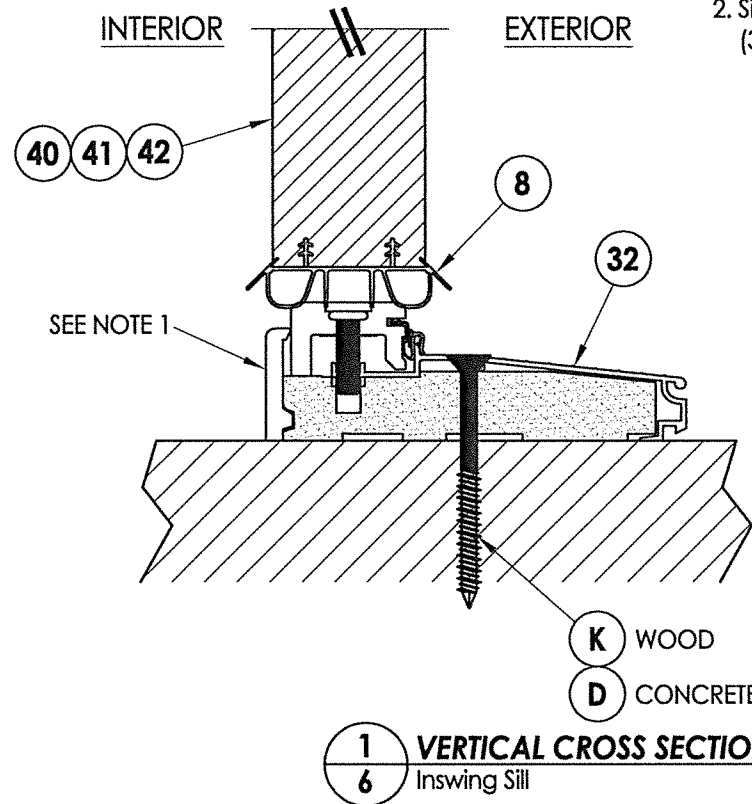
NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5210
SHEET 5 of 10

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Notes:

- Sill Item #32 is attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end. Sill Item #33 is attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end. Sill Item #34 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
- Sidelite assembly screws located 3" from each end and @ centerline (3 screws along sill).



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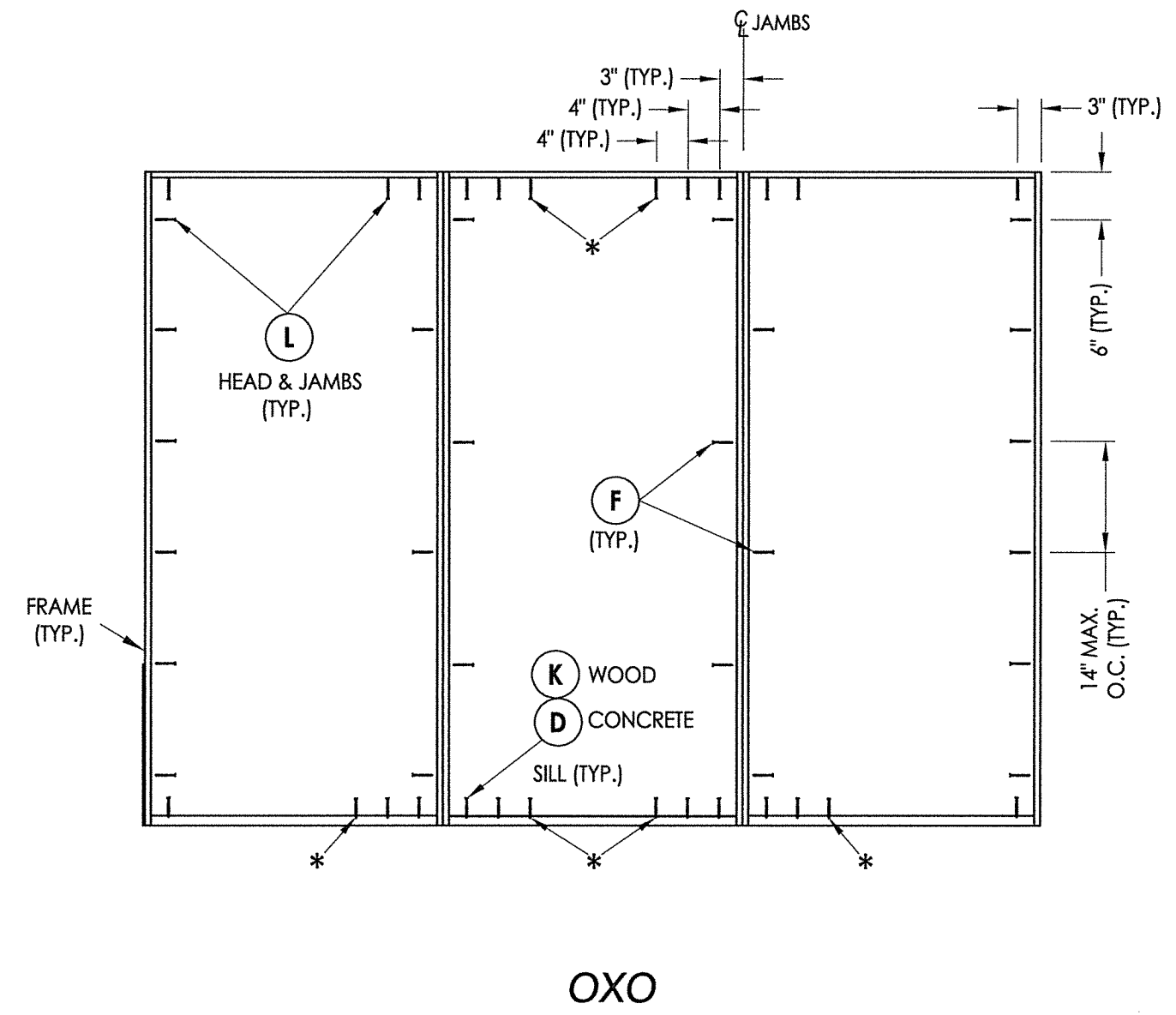
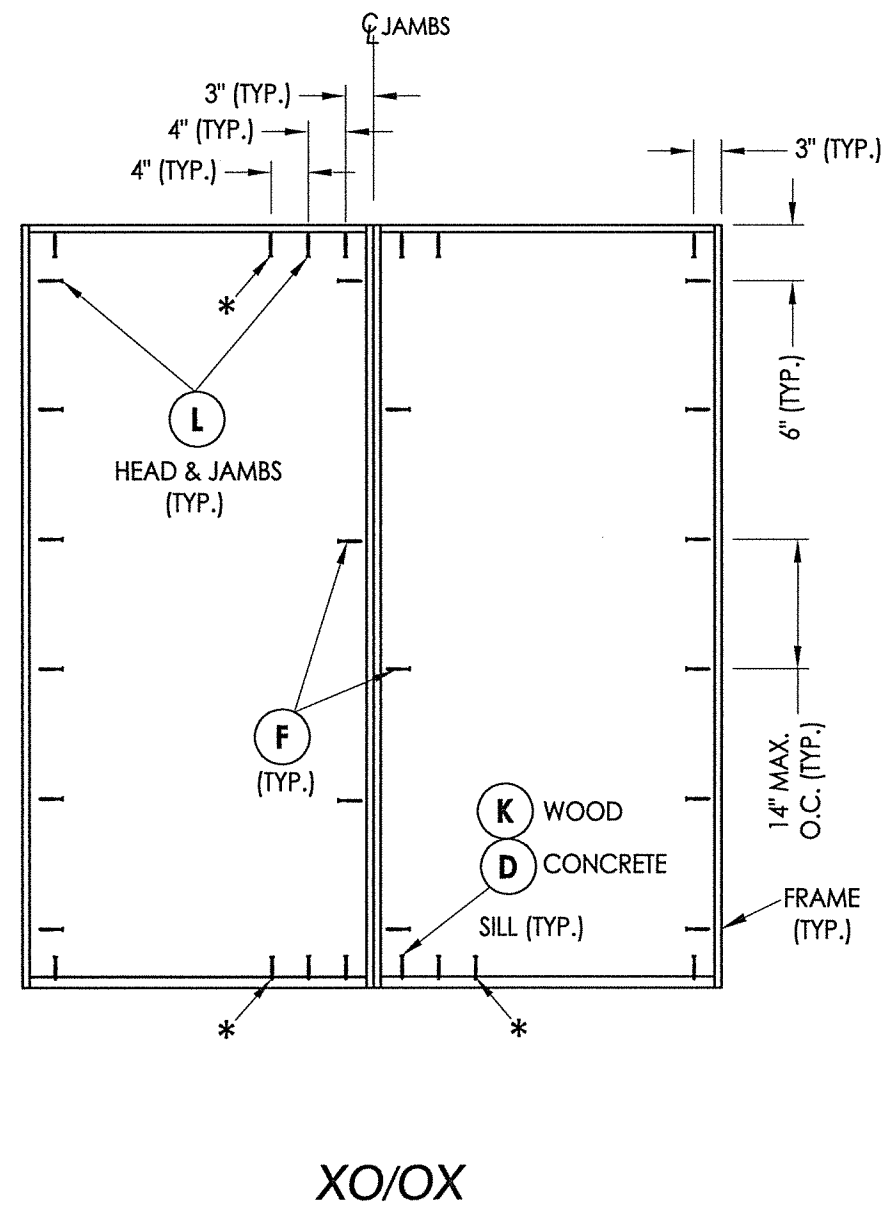
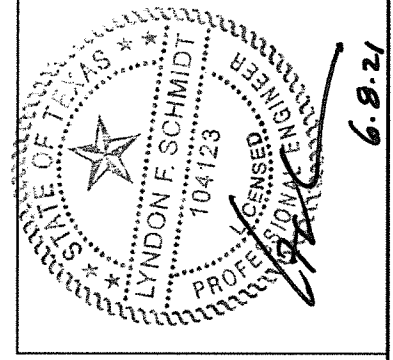
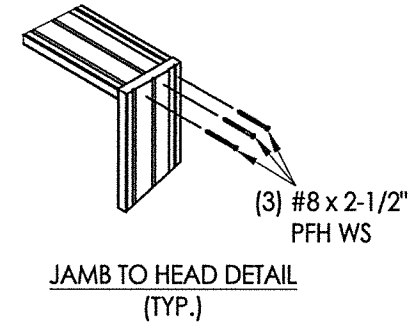
RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5210
SHEET 6 OF 10



FRAME ANCHORING

14" SIDELITE NOTES:
 * ANCHOR NOT REQUIRED FOR DOORS WITH 14" SIDELITES

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 TEXAS P.E. #104123

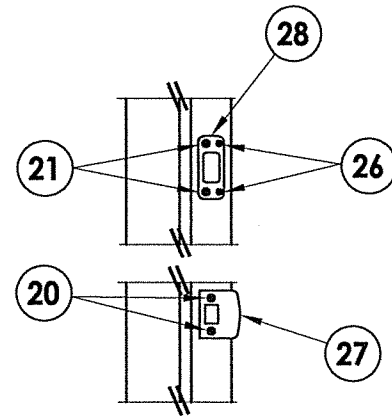
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 P.O. Box 230 Valrico FL, 33595
 Phone No.: 813.659.9197

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 CERTIFICATE OF REGISTRATION # F-11852

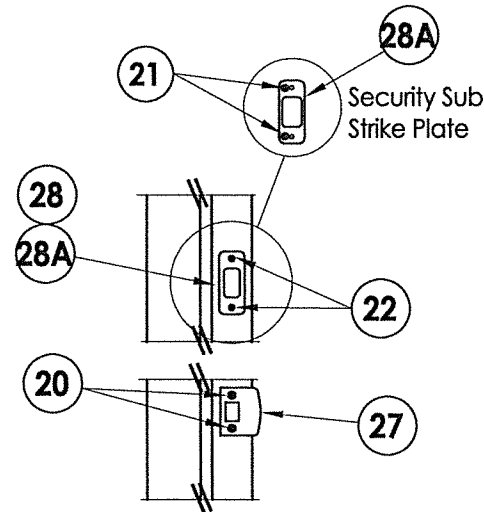
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PART OR ASSEMBLY:	FRAME ANCHORING

NO.	DATE	BY	REVISIONS

DATE:	5/27/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5210
SHEET	7 OF 10

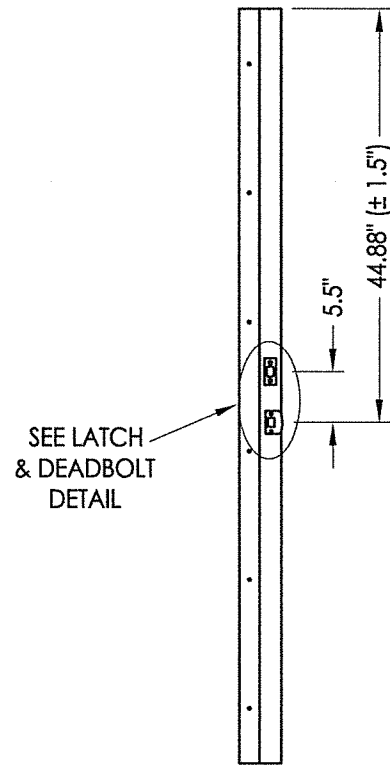


LATCH & DEADBOLT DETAIL
Kwikset

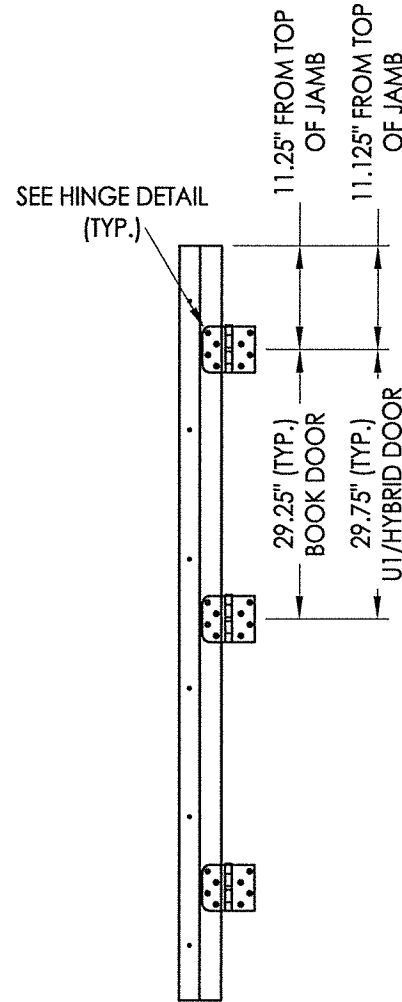


LATCH & DEADBOLT DETAIL
Schlage

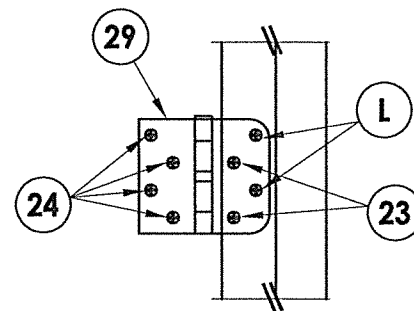
LATCH & DEADBOLT STRIKE DETAILS



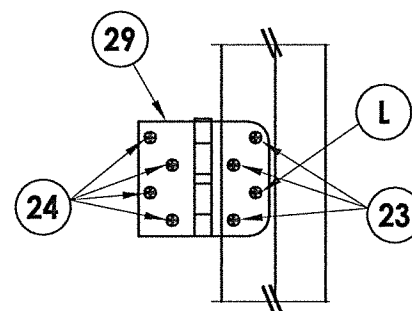
STRIKE JAMB
Latch and Deadbolt



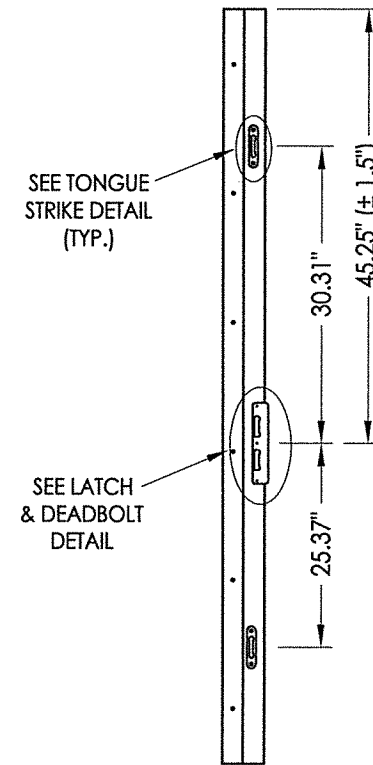
HINGE JAMB



HINGE DETAIL
Inswing

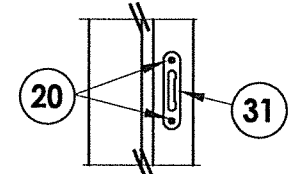


HINGE DETAIL
Outswing

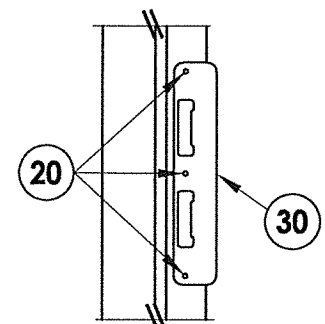


STRIKE JAMB
Multipoint Lock

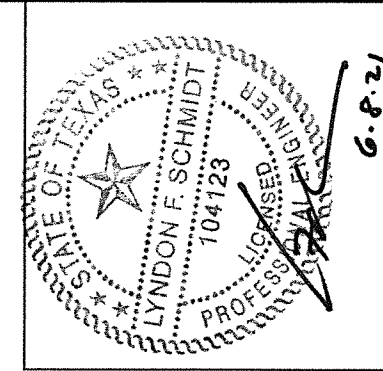
MULTIPOINT LOCK STRIKE DETAILS



TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: HARDWARE DETAILS

NO.	DATE	BY

DATE: 5/27/21

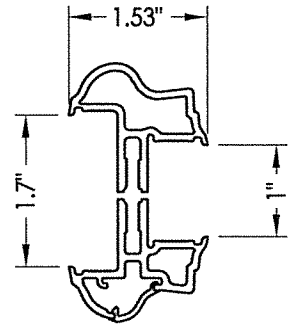
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DWG. BY: RW

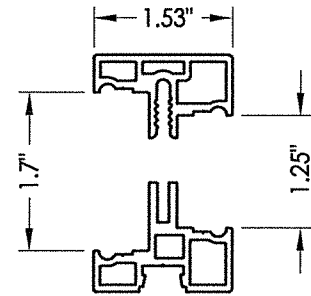
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DRAWING NO.: TX-5210

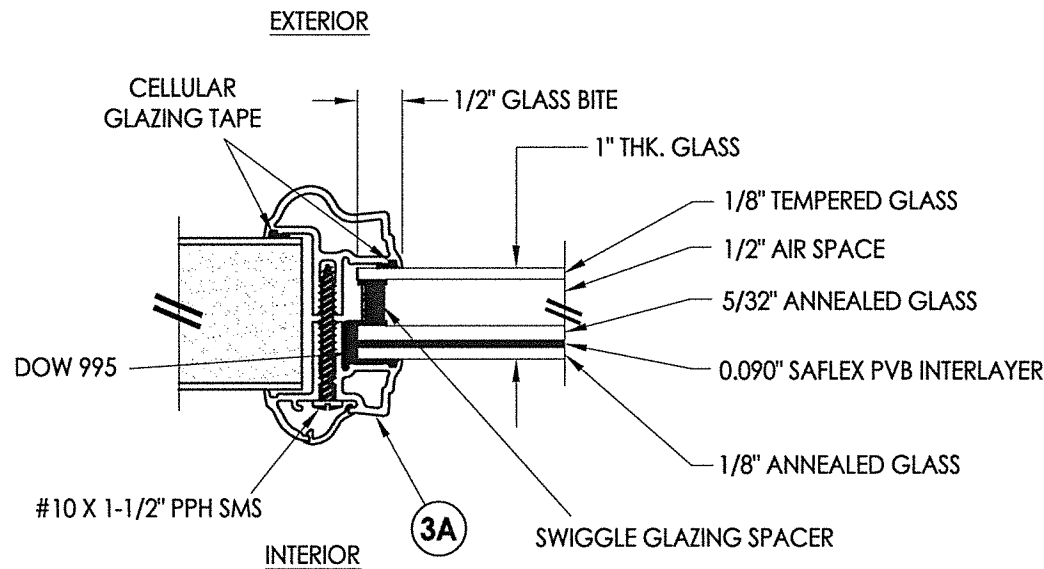
SHEET 8 OF 10



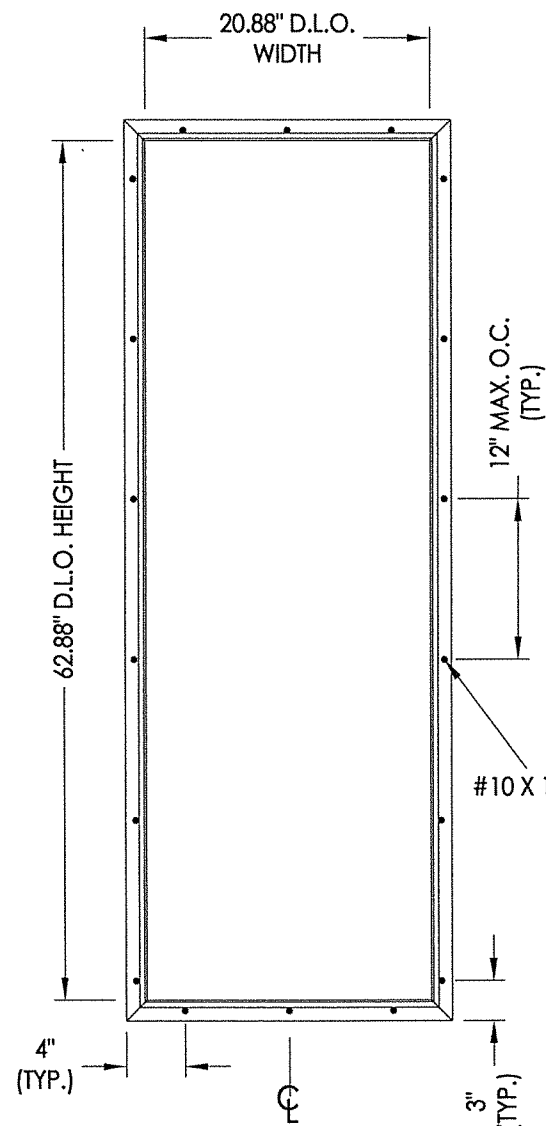
3A ALUMINUM FRAME
Aluminum Impact Lite Frame



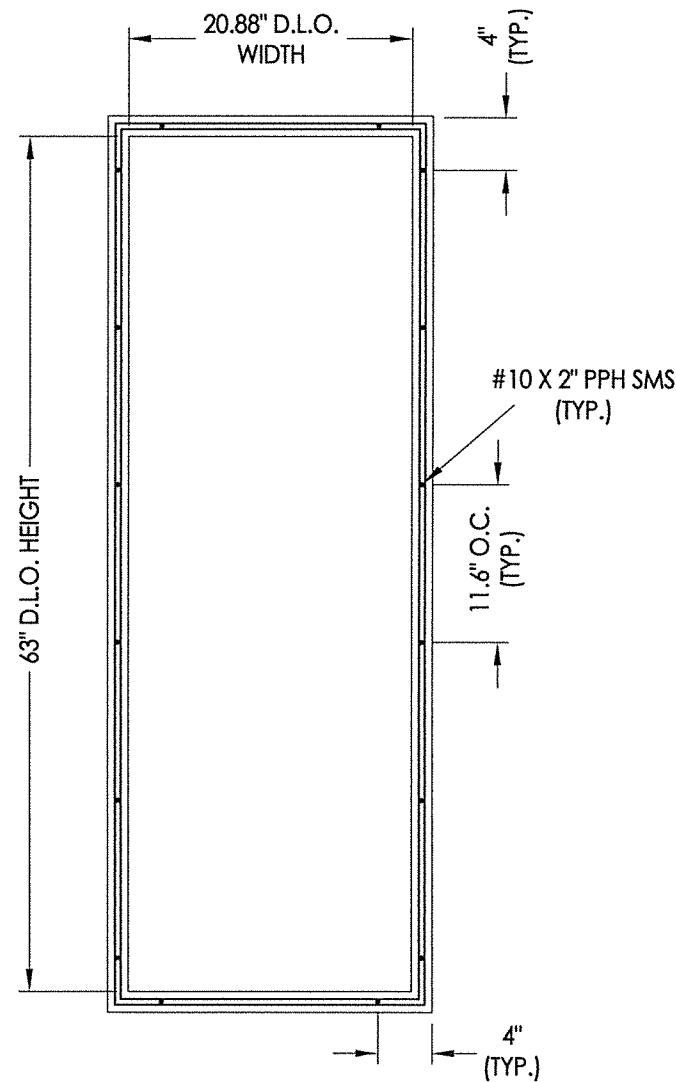
4A ALUMINUM FRAME
Aluminum Impact Lite Frame



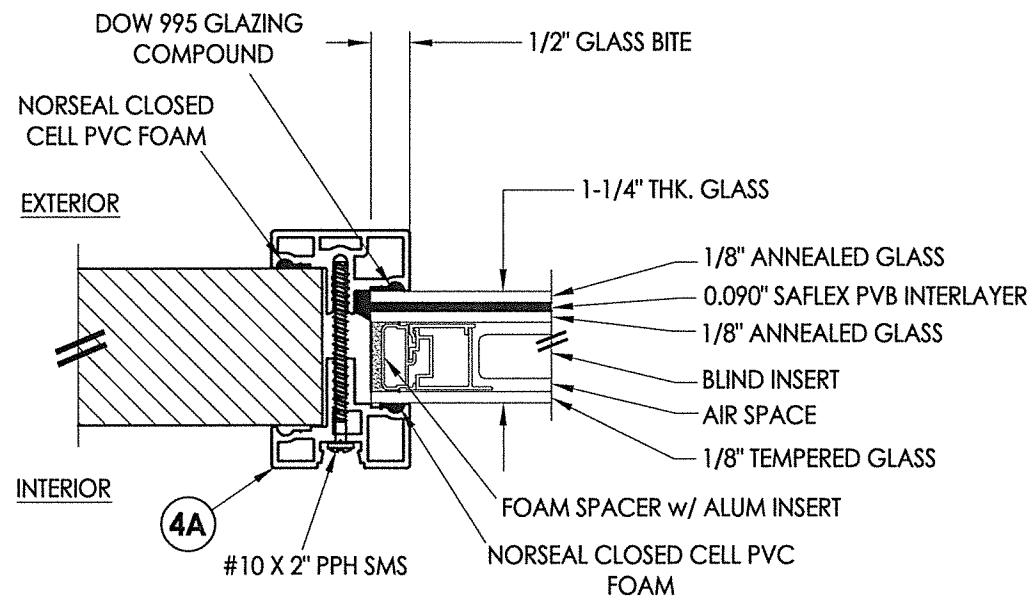
G1 GLAZING DETAIL
Aluminum Impact Lite Frame



3A ALUMINUM LITE FRAME*
(w/ 1\"/>



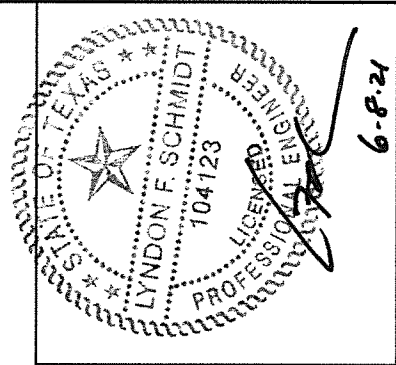
4A ALUMINUM LITE FRAME**
(w/ 1-1/4\"/>



G2 GLAZING DETAIL
1-1/4\"/>

14\"/>

- * 14\"/>
- ** 14\"/>



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

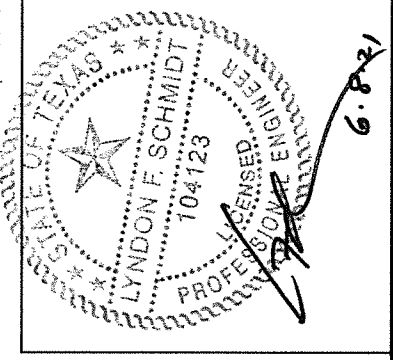
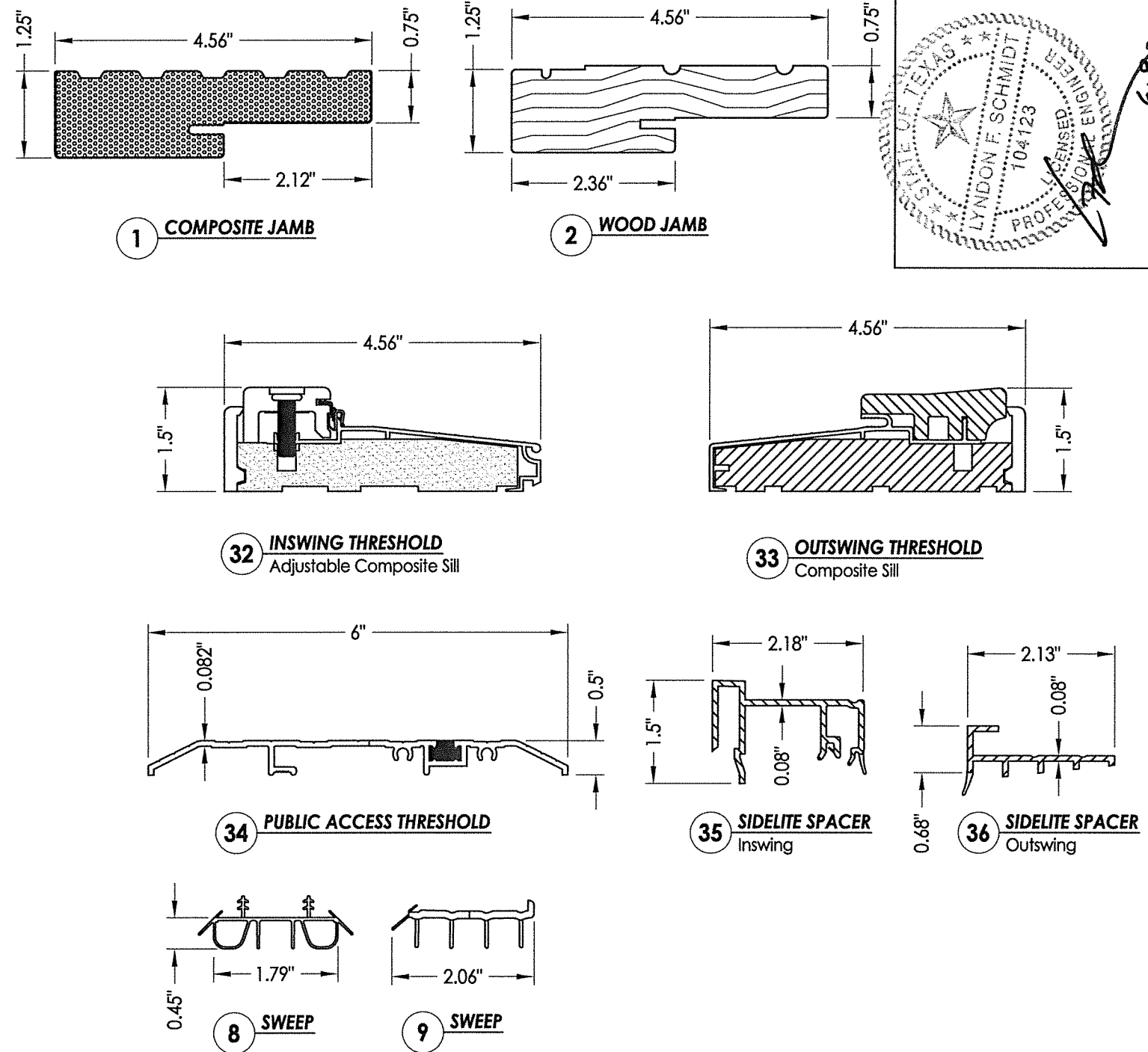
PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	LITE FRAME & GLAZING DETAILS

NO.	DATE	BY	REVISIONS

DATE:	5/27/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5210
SHEET	9 OF 10

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 6'8 OP GLZ FG Imp Molded Open (TX 5209-5213)\C - Drawings\TX-5209-5211.dwg

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL
K	#10 PFH WOOD SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	COMPOSITE JAMB	COMP
2	WOOD JAMB (FINGER JOINT PINE)	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
20	#8 X 2-1/2" PFH WOOD SCREW	STEEL
21	#12 X 1-1/2" PFH WOOD SCREW	STEEL
22	#8 X 3/4" PFH WOOD SCREW	STEEL
23	#9 X 3/4" PFH WOOD SCREW	STEEL
24	#9 X 1" PFH WOOD SCREW	STEEL
25	#9 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 5/8" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
28A	DEADBOLT SUB-STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
30	LATCH & DEADBOLT STRIKE PLATE	STEEL
31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	STEEL
32	INSWING THRESHOLD	ALUM/COMP
33	OUTSWING THRESHOLD	ALUM/COMP
34	PUBLIC ACCESS THRESHOLD	ALUM
35	SIDELITE SPACER (INSWING)	VINYL
36	SIDELITE SPACER (OUTSWING)	VINYL
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE PANEL	-



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 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR
 PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 5/27/21
 SCALE: N.T.S.
 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5210
 SHEET 10 of 10

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 TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON+®	1/4"	1-1/4"	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.