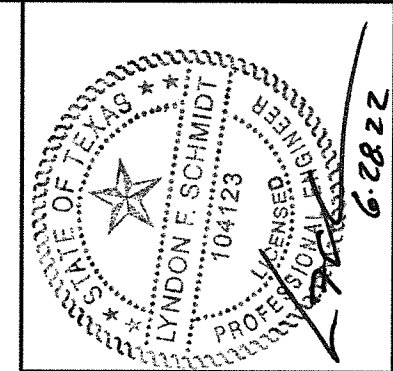
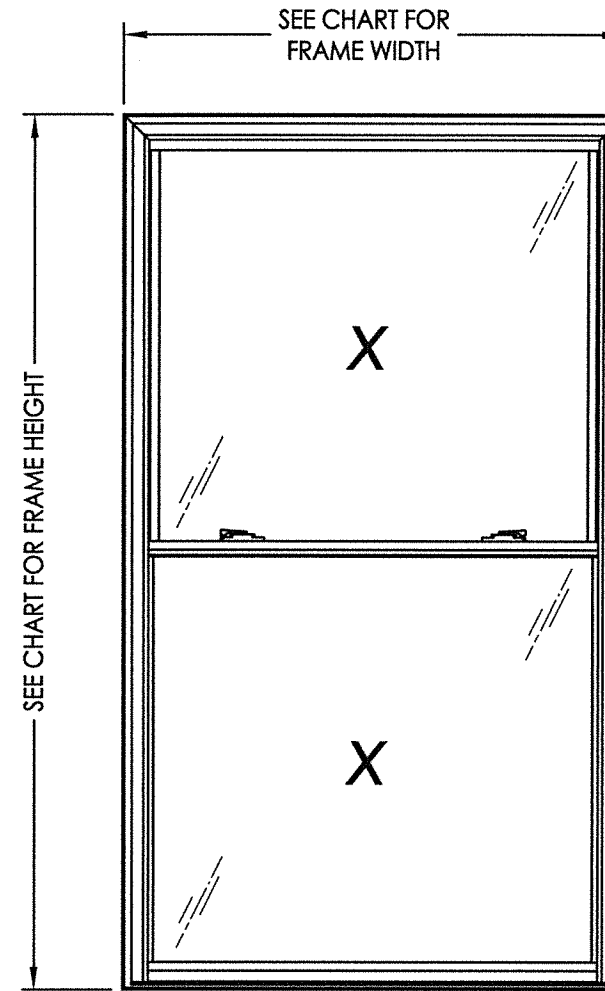


**MODEL 3001/3B01/3A01/3AB1 ST**  
**DOUBLE HUNG WINDOW**  
**"NON-IMPACT"**



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

Z:\Clients\Associated PERMANENT\B - Texas Dept of Ins\Double Hung\WIN 1952 3001 Replacement Window\C - Drawings\TX-4413.dwg

EVALUATED FOR USE IN THE STATE OF TEXAS

**TDI WIN-1952**

The Double Hung Window 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	Vertical & horizontal cross sections & frame anchoring
3	Vertical & horizontal cross sections & frame anchoring
4	Bill of materials, components & glazing details

OVERALL FRAME DIMENSION	MAX. D.L.O. (TOP)	MAX. D.L.O. (BOTTOM)	No. LOCKS	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
36.0" X 60.0"	29.12" X 25.63"	30.12" X 26.75"	2	G1	+55.0	-60.0
36.0" X 72.0"	29.12" X 31.63"	30.12" X 32.75"	2	G1	+50.0	-55.0
36.0" X 78.0"	29.12" X 34.63"	30.12" X 35.75"	2	G1	+40.0	-40.0
44.0" X 72.0"	37.12" X 31.63"	38.12" X 32.75"	2	G1	+40.0	-40.0
48.0" X 72.0"	41.12" X 31.63"	42.12" X 32.75"	2	G1	+35.0	-35.0
44.0" X 75.0"	37.12" X 33.13"	38.12" X 34.25"	1	G1	+25.0	-25.0
44.0" X 75.0"	37.12" X 33.13"	38.12" X 34.25"	2	G1	+30.0	-30.0
52.0" X 62.0"	45.12" X 26.63"	46.12" X 27.75"	2	G1	+35.0	-35.0
48.0" X 84.0"	41.12" X 37.63"	42.12" X 38.75"	2	G1	+25.0	-25.0
44.0" X 96.0"	37.12" X 43.63"	38.12" X 44.75"	2	G1	+25.0	-25.0

PRODUCT: DOUBLE HUNG WINDOW

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

NO.	DATE	REVISIONS
4	6/22/22	UPDATE FOR NEW TESTING
3	7/01/21	UPDATE TO 2018 IBC/IRC AND
2	5/27/15	UPDATE FOR NEW TESTING
1	3/27/14	UPDATE FOR NEW TESTING

DATE: 3/27/14

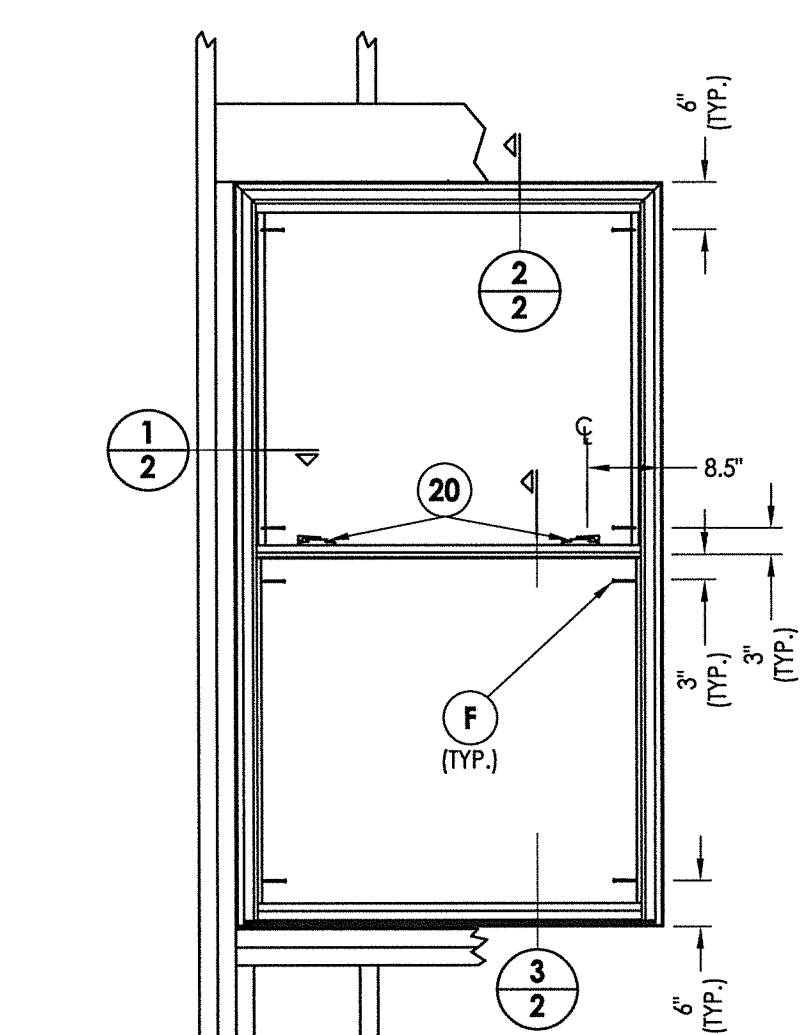
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4413

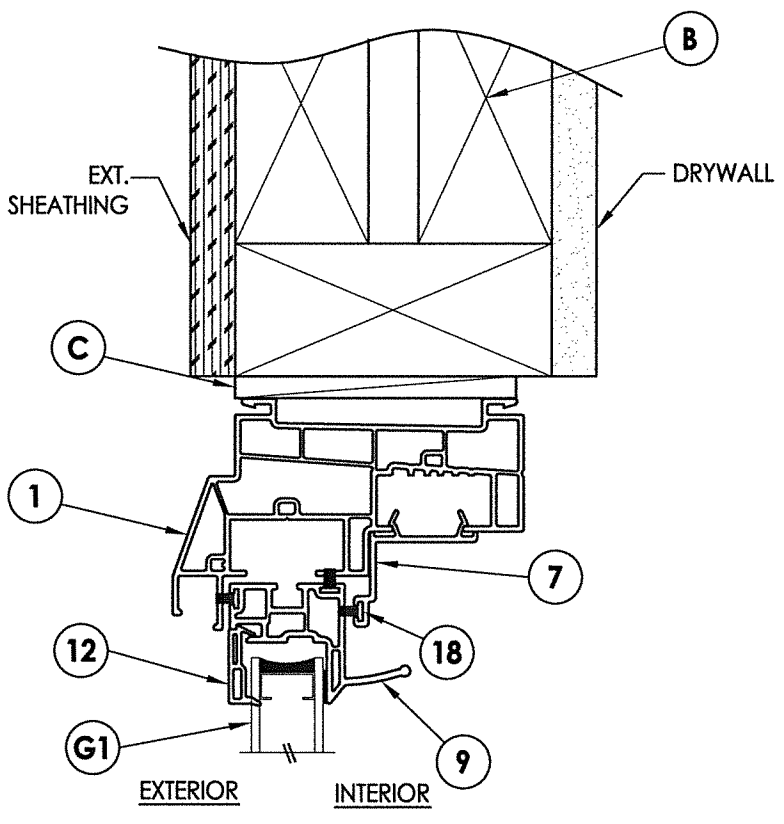
SHEET 1 OF 4



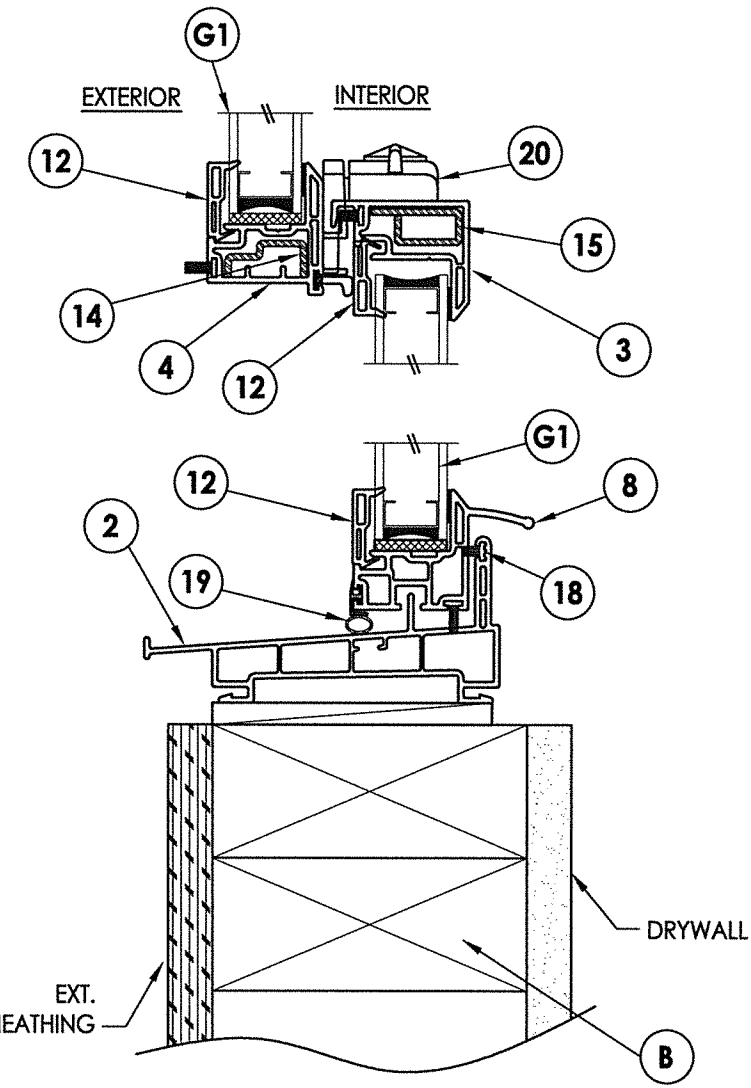
FRAME ANCHORING

NOTES:

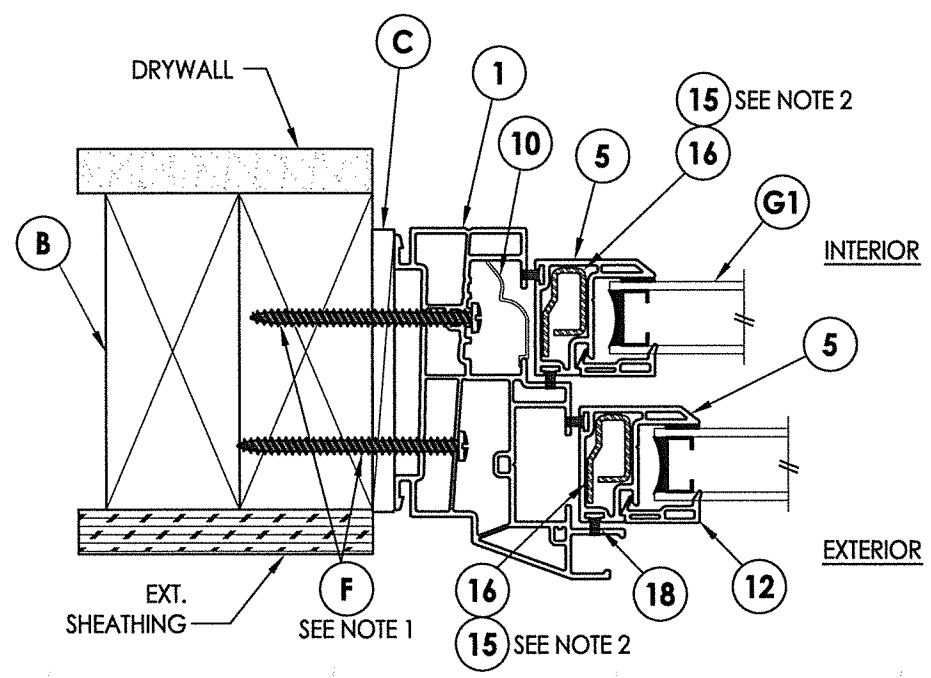
1. Anchors located above the meeting rail are in the interior track and anchors located below the meeting rail are in the exterior track.
2. Reinforcement (Item #15) is required for design pressures > 40 psf.



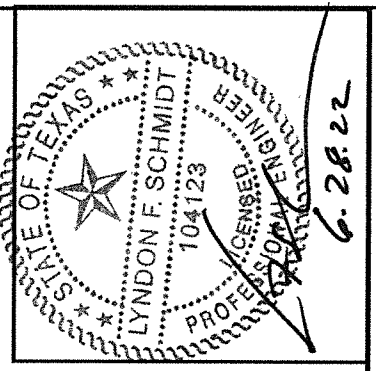
**2 VERTICAL CROSS SECTION**  
Small Top Sash / Small Bottom Sash



**3 VERTICAL CROSS SECTION**  
Small Top Sash / Small Bottom Sash



**1 HORIZONTAL CROSS SECTION**  
Small Top Sash / Small Bottom Sash



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: DOUBLE HUNG WINDOW

PART OR ASSEMBLY:  
VERTICAL & HORIZONTAL CROSS  
SECTIONS & FRAME ANCHORING

NO.	DATE	REVISIONS
4	6/22/22	UPDATE FOR NEW TESTING
3	7/01/21	UPDATE TO 2018 IBC/IRC AND UPDATE FOR NEW TESTING
2	5/27/15	UPDATE FOR NEW TESTING
1	3/27/14	UPDATE FOR NEW TESTING

DATE: 3/27/14

SCALE: N.T.S.

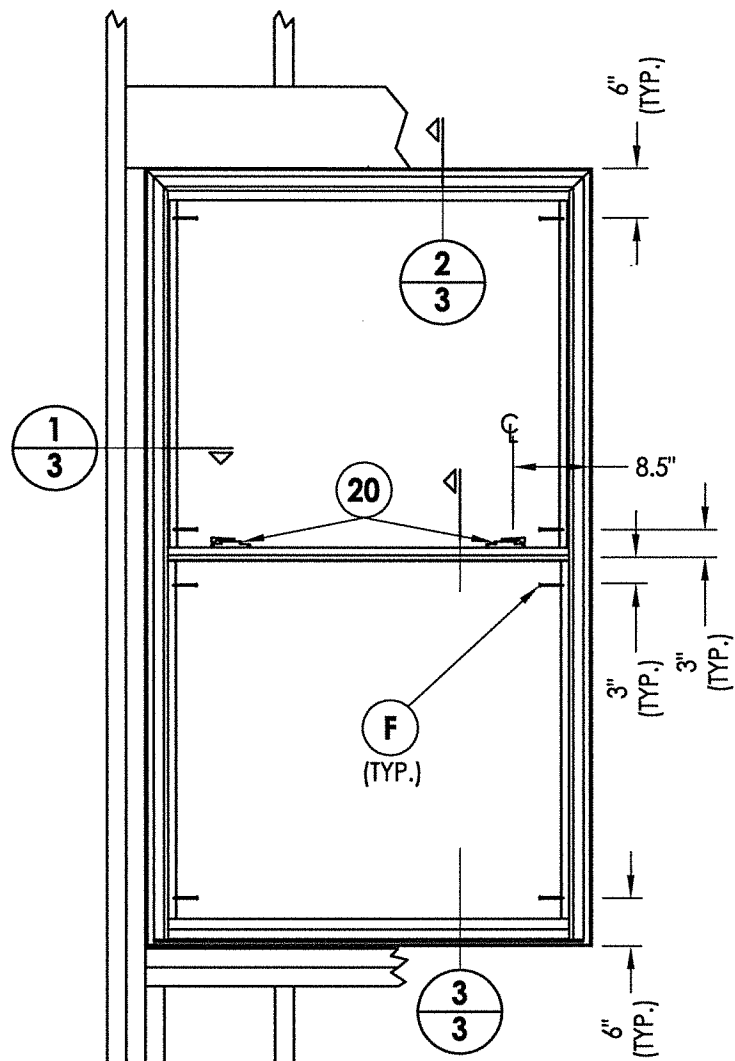
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4413

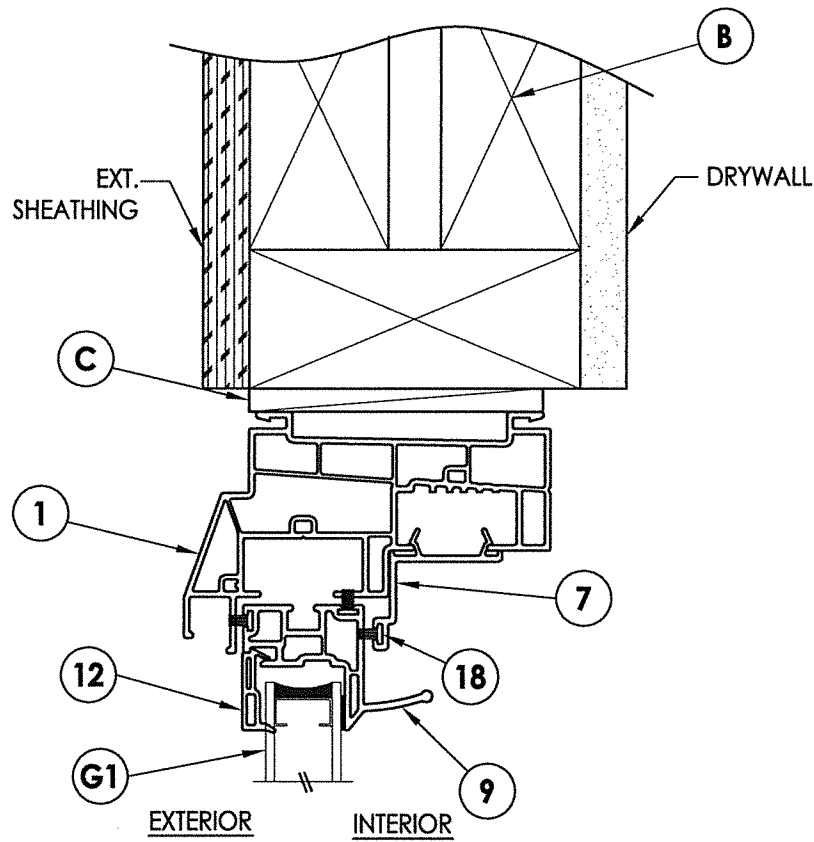
SHEET 2 OF 4

Z:\Clients\Associated PERMANENT\B - Texas Dept of Ins\Double Hung\WIN 1952 3001 Replacement Window\C - Drawings\TX-4413.dwg

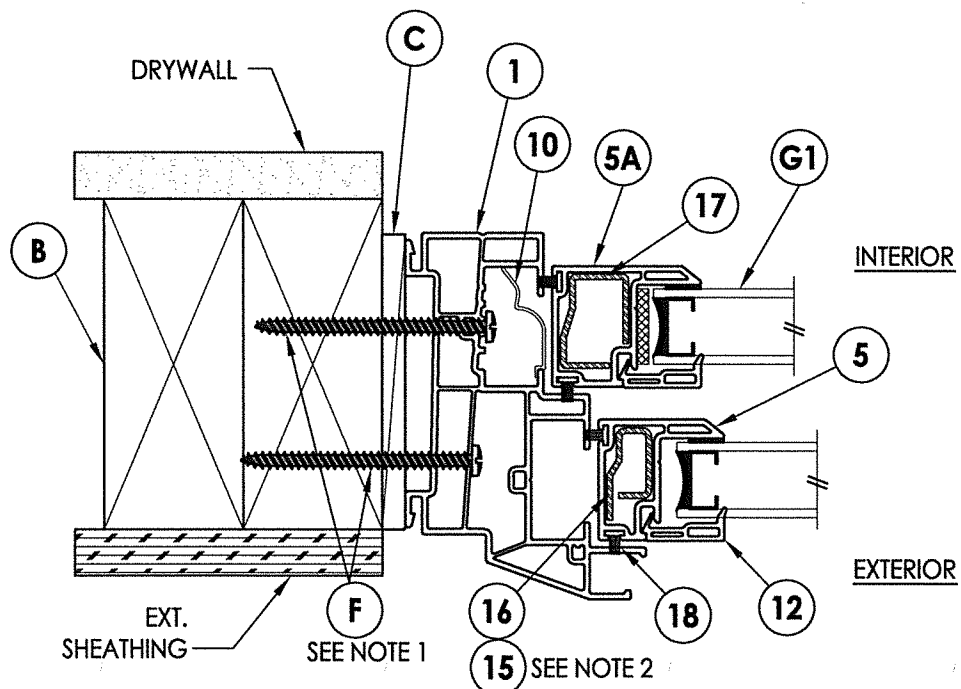


2X FRAMING  
(BY OTHERS)

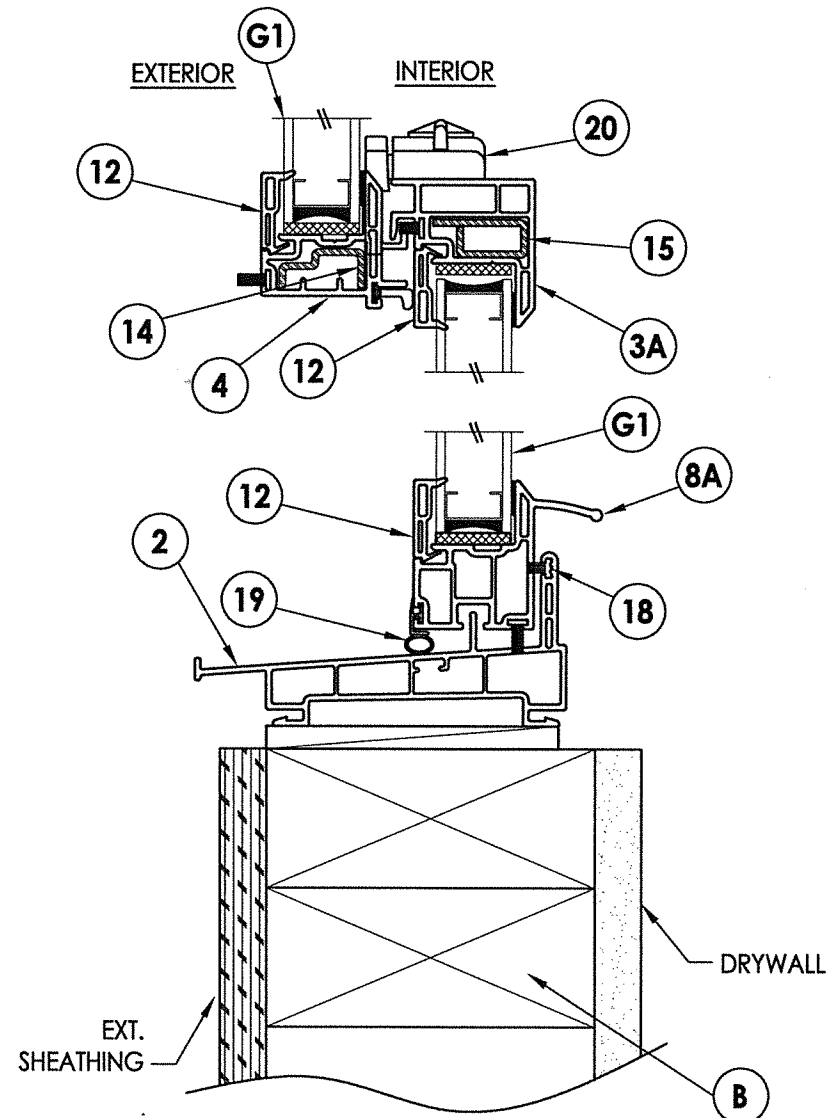
FRAME ANCHORING



2 VERTICAL CROSS SECTION

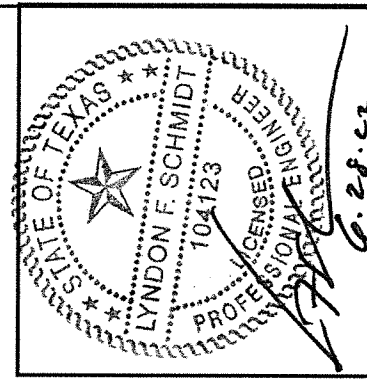


1 HORIZONTAL CROSS SECTION  
3 Small Top Sash / Medium Bottom Sash



3 VERTICAL CROSS SECTION  
3 Small Top Sash / Medium Bottom Sash

- NOTES:
1. Anchors located above the meeting rail are in the interior track and anchors located below the meeting rail are in the exterior track.
  2. Reinforcement (Item #15) is required for design pressures > 40 psf.



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

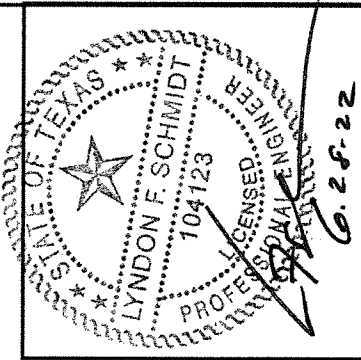
PRODUCT: DOUBLE HUNG WINDOW  
PART OR ASSEMBLY: VERTICAL & HORIZONTAL CROSS SECTIONS & FRAME ANCHORING

NO.	DATE	REVISIONS	BY
4	6/22/22	UPDATE FOR NEW TESTING	LFS
3	7/01/21	UPDATE TO 2018 IBC/IRC AND UPDATE FOR NEW TESTING	LFS
2	5/27/15	UPDATE FOR NEW TESTING	LFS
1	3/27/14	UPDATE FOR NEW TESTING	LFS

DATE: 3/27/14  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4413  
SHEET 3 OF 4

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#8 X 2-1/2" PH WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
1	EXTRUDED VINYL HEAD AND JAMB *	RIGID PVC
2	EXTRUDED VINYL SILL*	RIGID PVC
3	EXTRUDED VINYL LOCK RAIL (SMALL) *	RIGID PVC
3A	EXTRUDED VINYL LOCK RAIL (MEDIUM) *	RIGID PVC
4	EXTRUDED VINYL MEETING RAIL*	RIGID PVC
5	EXTRUDED VINYL SASH STILE (SMALL) *	RIGID PVC
5A	EXTRUDED VINYL SASH STILE (MEDIUM) *	RIGID PVC
7	EXTRUDED VINYL HEAD INSERT *	RIGID PVC
8	EXTRUDED VINYL BOTTOM LIFT RAIL (SMALL) *	RIGID PVC
8A	EXTRUDED VINYL SASH STILE (MEDIUM) *	RIGID PVC
9	EXTRUDED VINYL TOP PULL RAIL *	RIGID PVC
10	BALANCE COVER	-
12	GLAZING BEAD*	RIGID PVC
14	REINFORCEMENT - MEETING RAIL	STEEL
15	REINFORCEMENT - LOCK RAIL	STEEL
16	REINFORCEMENT - SM. STILES	STEEL
17	REINFORCEMENT - MED. STILES	STEEL
18	WEATHERSTRIP (FIN PILE)	-
19	WEATHERSTRIP (VINYL BULB)	VINYL
20	CAM LOCK	STEEL

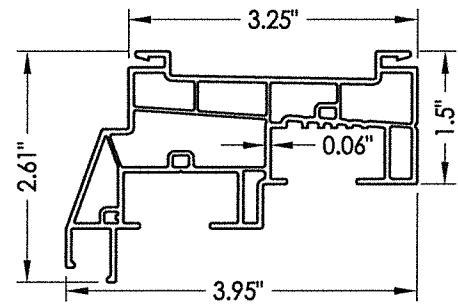
\* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



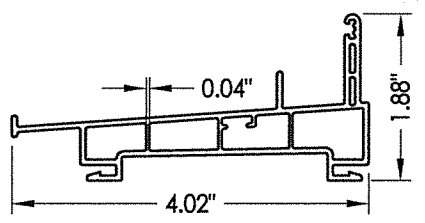
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

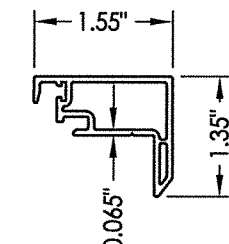
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852



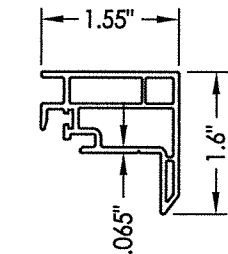
1 HEAD & JAMB



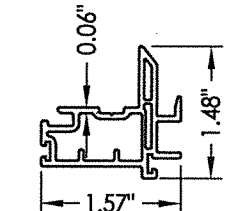
2 SILL



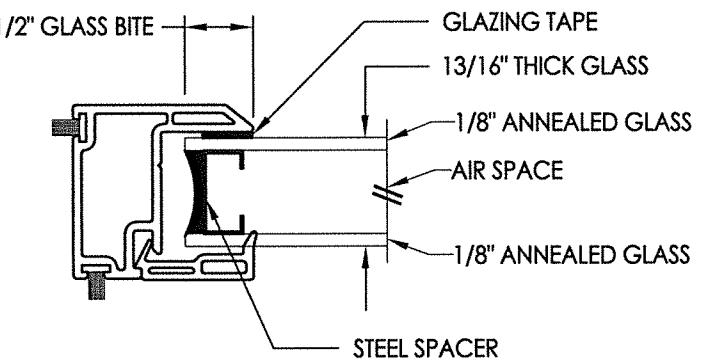
3 LOCK RAIL Small



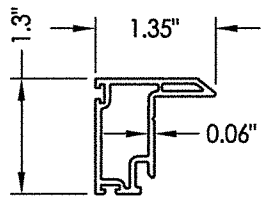
3A LOCK RAIL Medium



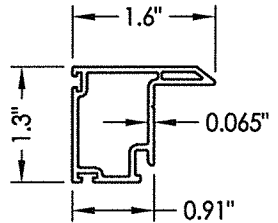
4 MEETING RAIL



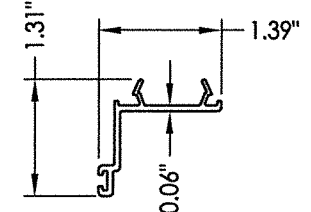
G1 GLAZING DETAIL



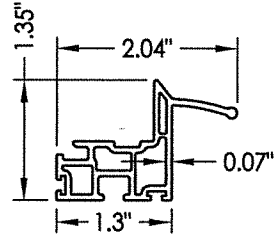
5 SASH STILE Small



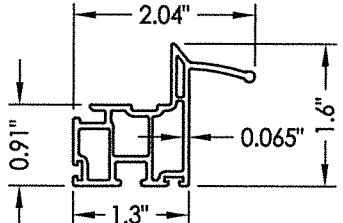
5A SASH STILE Medium



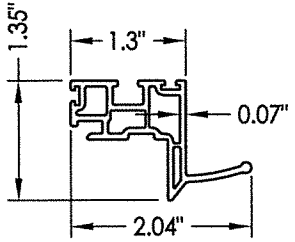
7 HEAD INSERT



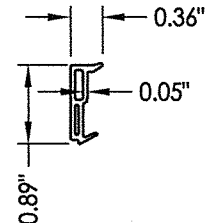
8 BOTTOM LIFT RAIL Small



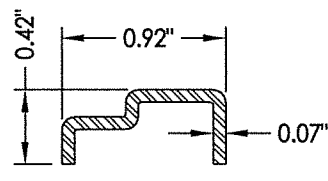
8A BOTTOM LIFT RAIL Medium



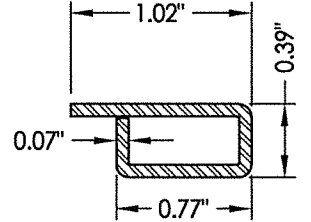
9 TOP PULL RAIL



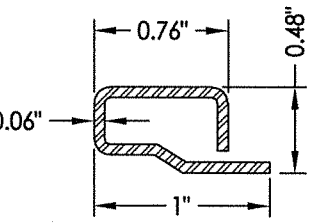
12 GLAZING BEAD



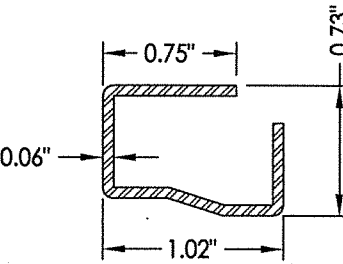
14 REINFORCEMENT Meeting Rail



15 REINFORCEMENT Lock Rail



16 REINFORCEMENT SM Stiles



17 REINFORCEMENT MED Stiles

PRODUCT:		DOUBLE HUNG WINDOW	
PART OR ASSEMBLY:		BILL OF MATERIALS, COMPONENTS & GLAZING DETAIL	
NO.	DATE	BY	REVISIONS
4	6/22/22	LFS	UPDATE FOR NEW TESTING
3	7/01/21	LFS	UPDATE TO 2018 IBC/IRC AND
2	5/27/15	LFS	UPDATE FOR NEW TESTING
1	3/27/14	LFS	UPDATE FOR NEW TESTING

DATE: 3/27/14  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4413  
SHEET 4 OF 4