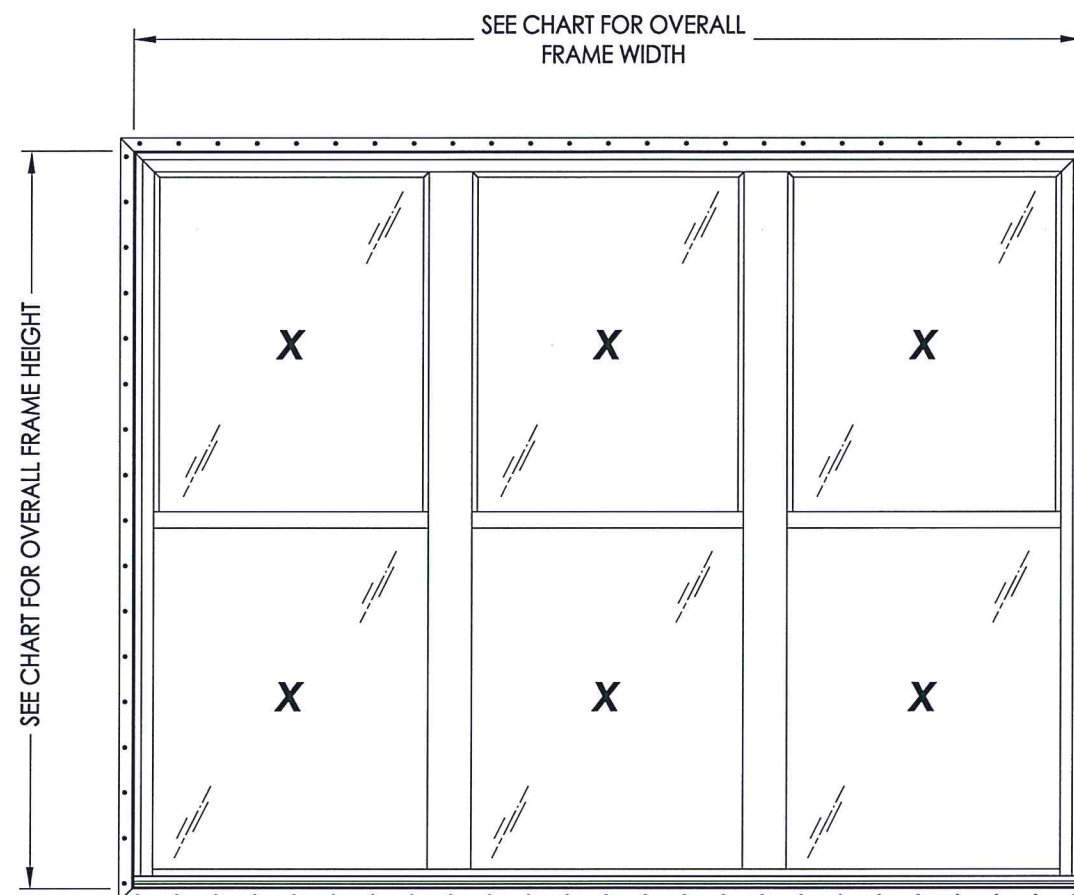




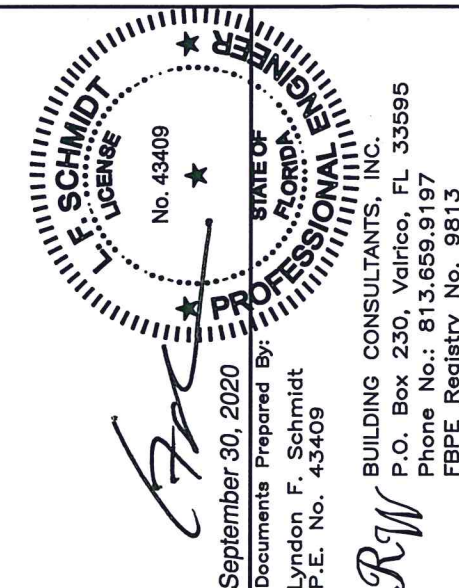
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ). See the Certification Agency Certificate for sizes, specifications and ratings.
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product must be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

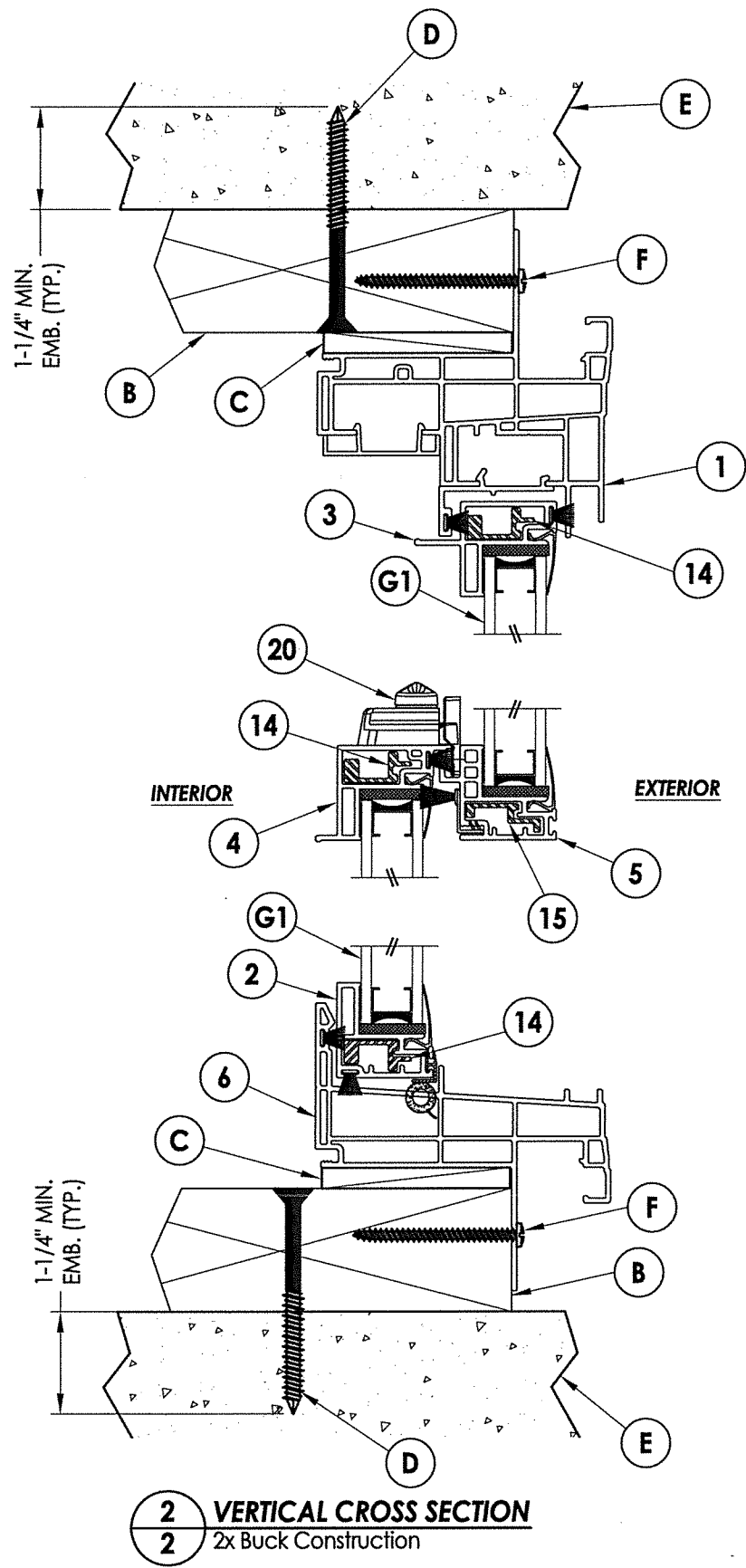
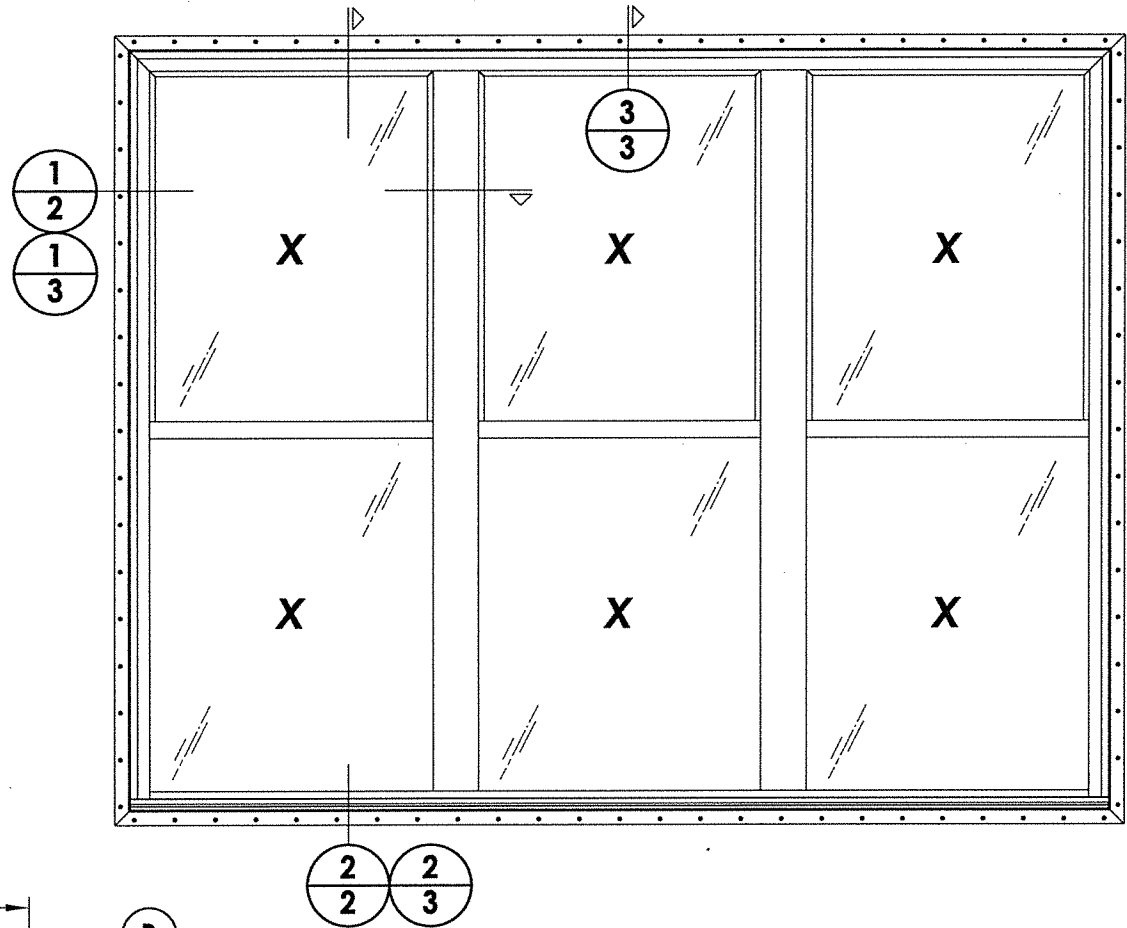
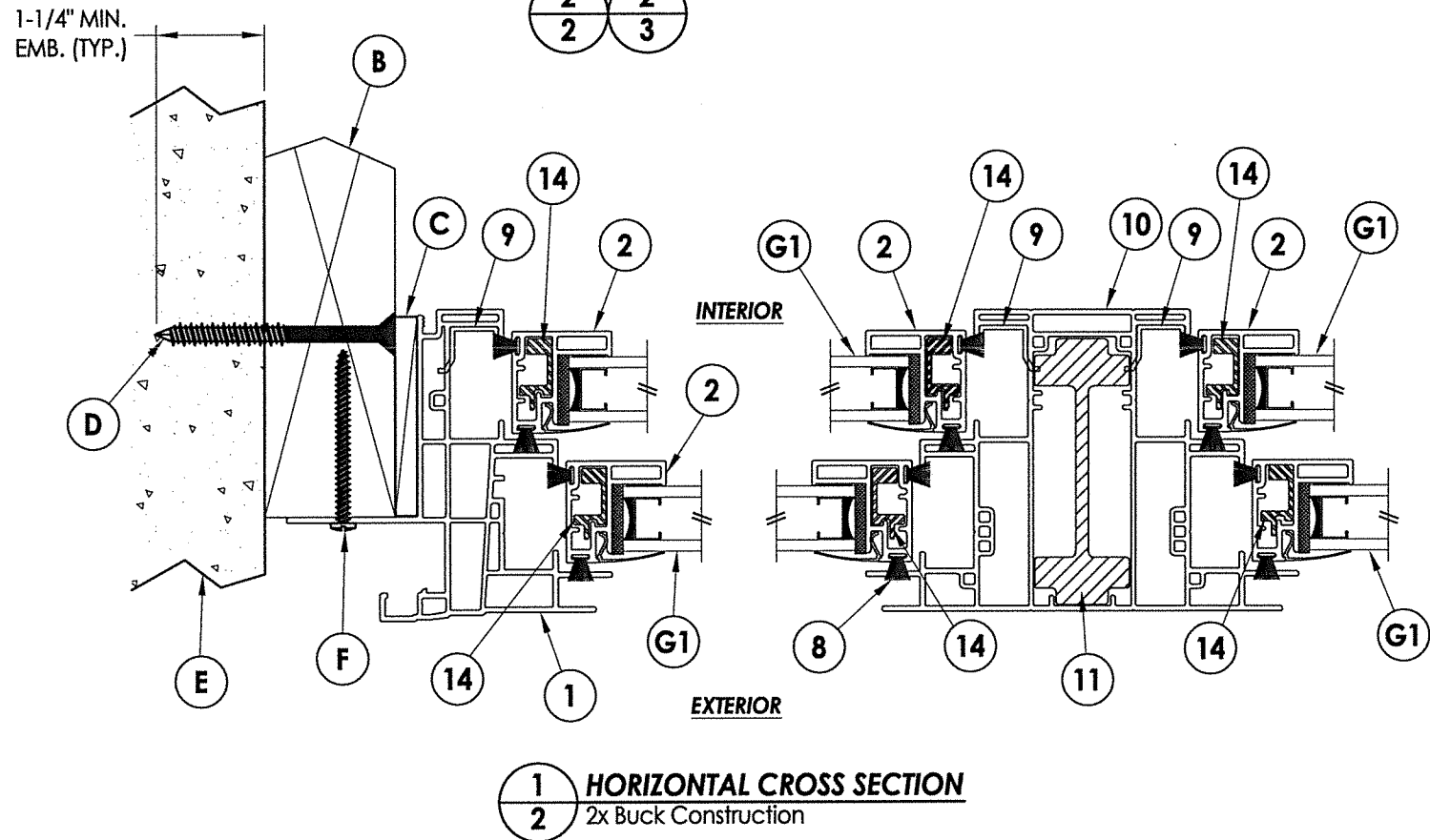
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Vertical & horizontal cross sections
3	Vertical & horizontal cross sections
4	Buck anchoring
5	Frame anchoring
6	Bill of materials, glazing detail & components



OVERALL FIN DIMENSION	OVERALL FRAME DIMENSION	TOP SASH OVERALL D.L.O. DIMENSION	BOTTOM SASH OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
111.0" x 65.0"	108.0" x 62.0"	29.88" x 27.75"	31.13" x 27.75"	G1	+45.0	-45.0



DATE: 11/14/19		PRODUCT: DOUBLE HUNG WINDOW	
SCALE: N.T.S.		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURE AND GENERAL NOTES	
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-27170.7			
SHEET 1 OF 6			



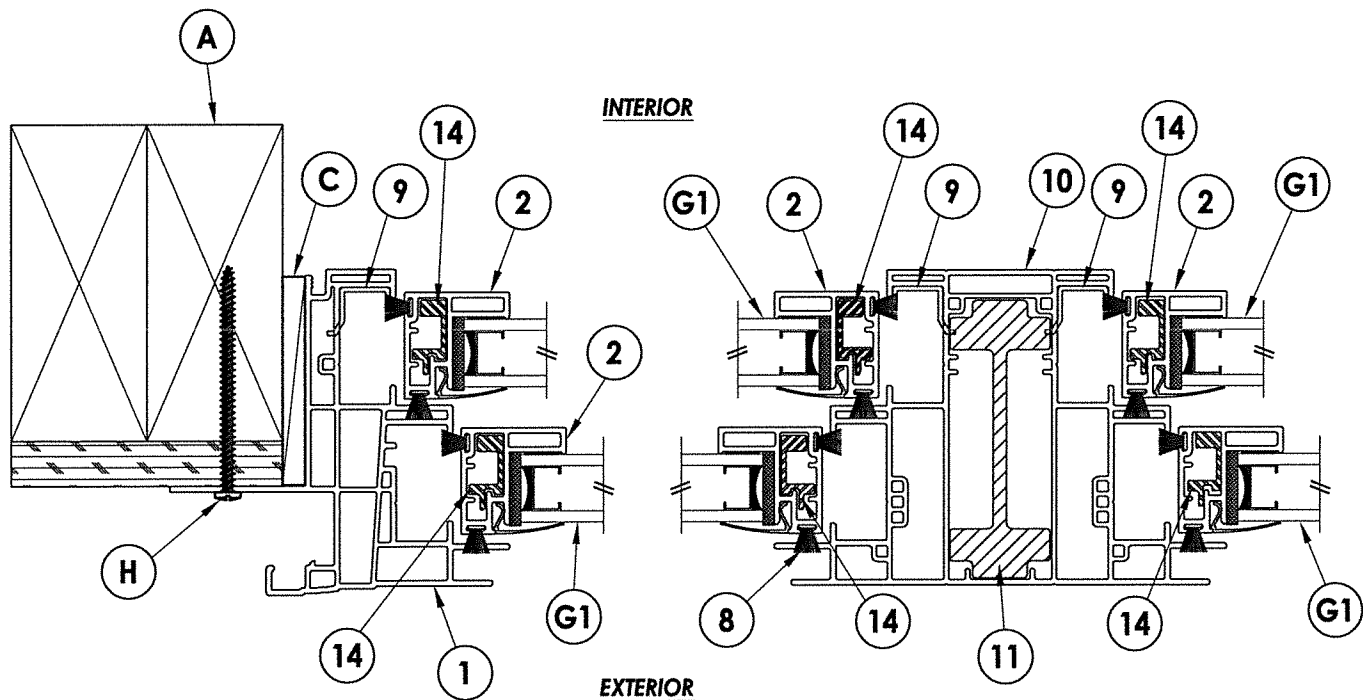
FLORIDA PROFESSIONAL ENGINEER
F. SCHMIDT
LICENSE
No. 43409
September 30, 2020

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

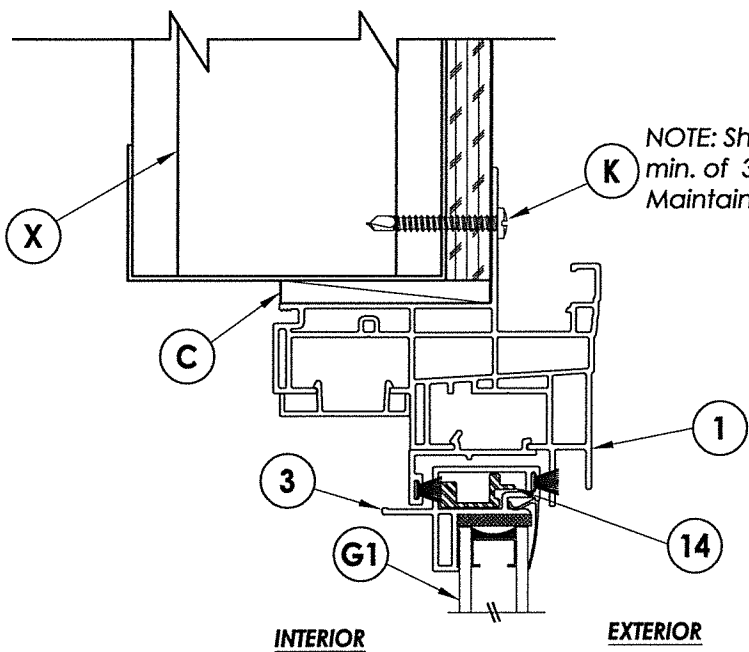
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	DOUBLE HUNG WINDOW
PART OR ASSEMBLY:	VERTICAL & HORIZONTAL CROSS SECTIONS
DATE:	11/14/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-27170.7
SHEET	2 OF 6

NO.	DATE	REVISIONS
1	9/30/20	UPDATE TO 7TH ED. (2020) FBC

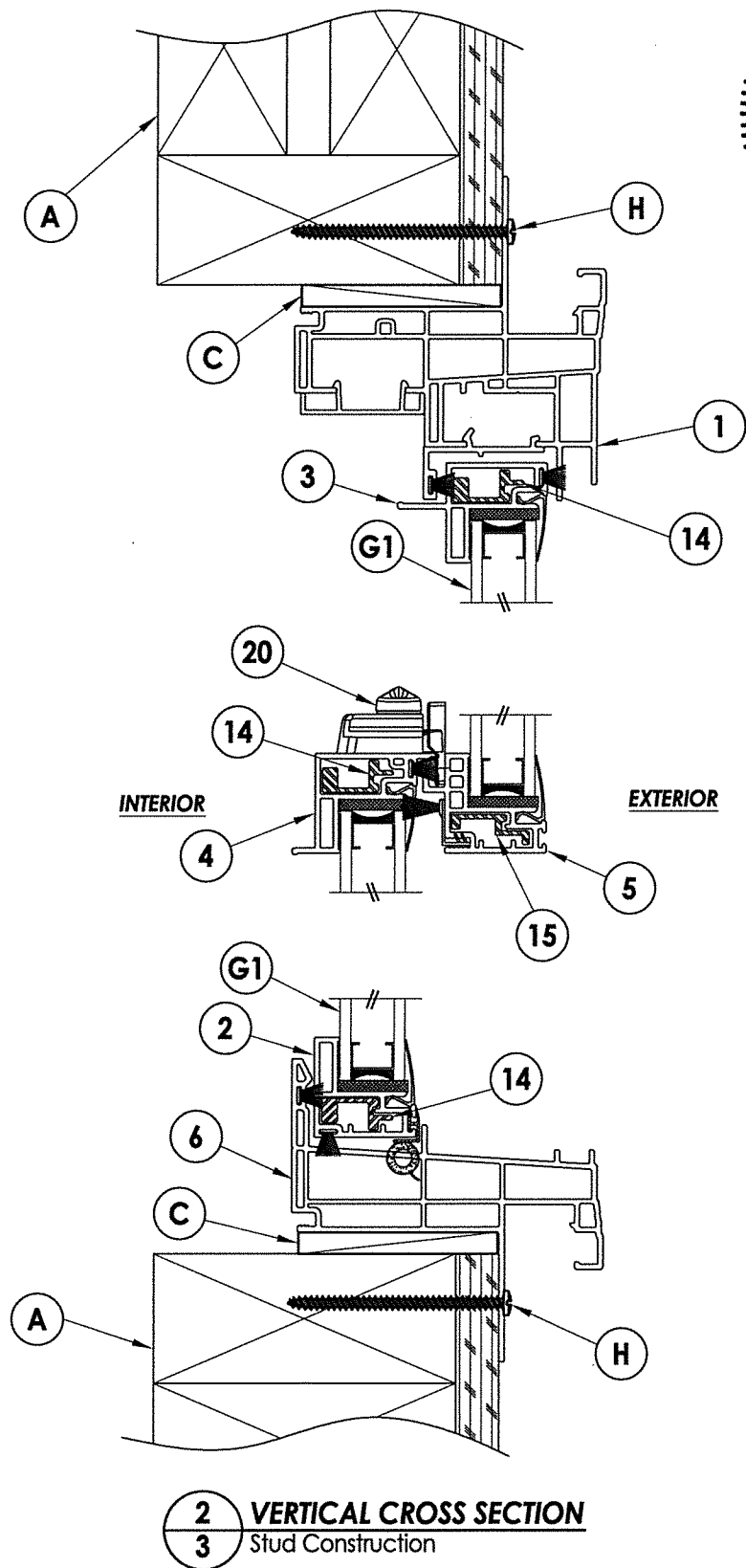


1
3 HORIZONTAL CROSS SECTION
Stud Construction



3
3 VERTICAL CROSS SECTION
Steel Stud Construction

NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through metal stud. Maintain a minimum 5/8" edge distance.



2
3 VERTICAL CROSS SECTION
Stud Construction

September 30, 2020

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 43409

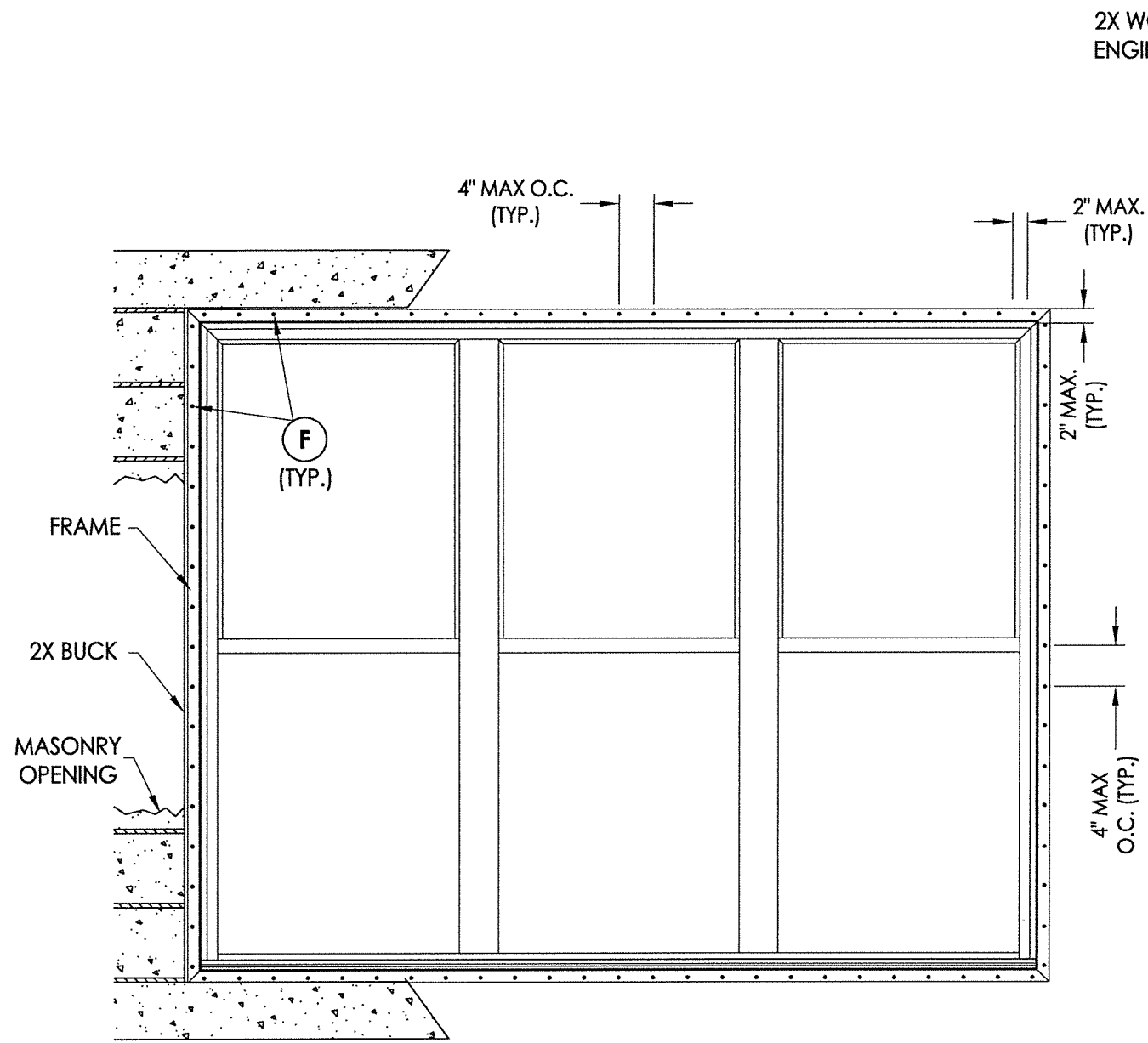
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairco, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOUBLE HUNG WINDOW	
PART OR ASSEMBLY:		VERTICAL & HORIZONTAL CROSS SECTIONS	
NO.	DATE	REVISIONS	LFS
			BY
1	9/30/20	UPDATE TO 7TH ED. (2020) FBC	
DATE: 11/14/19			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-27170.7			
SHEET 3 OF 6			

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"

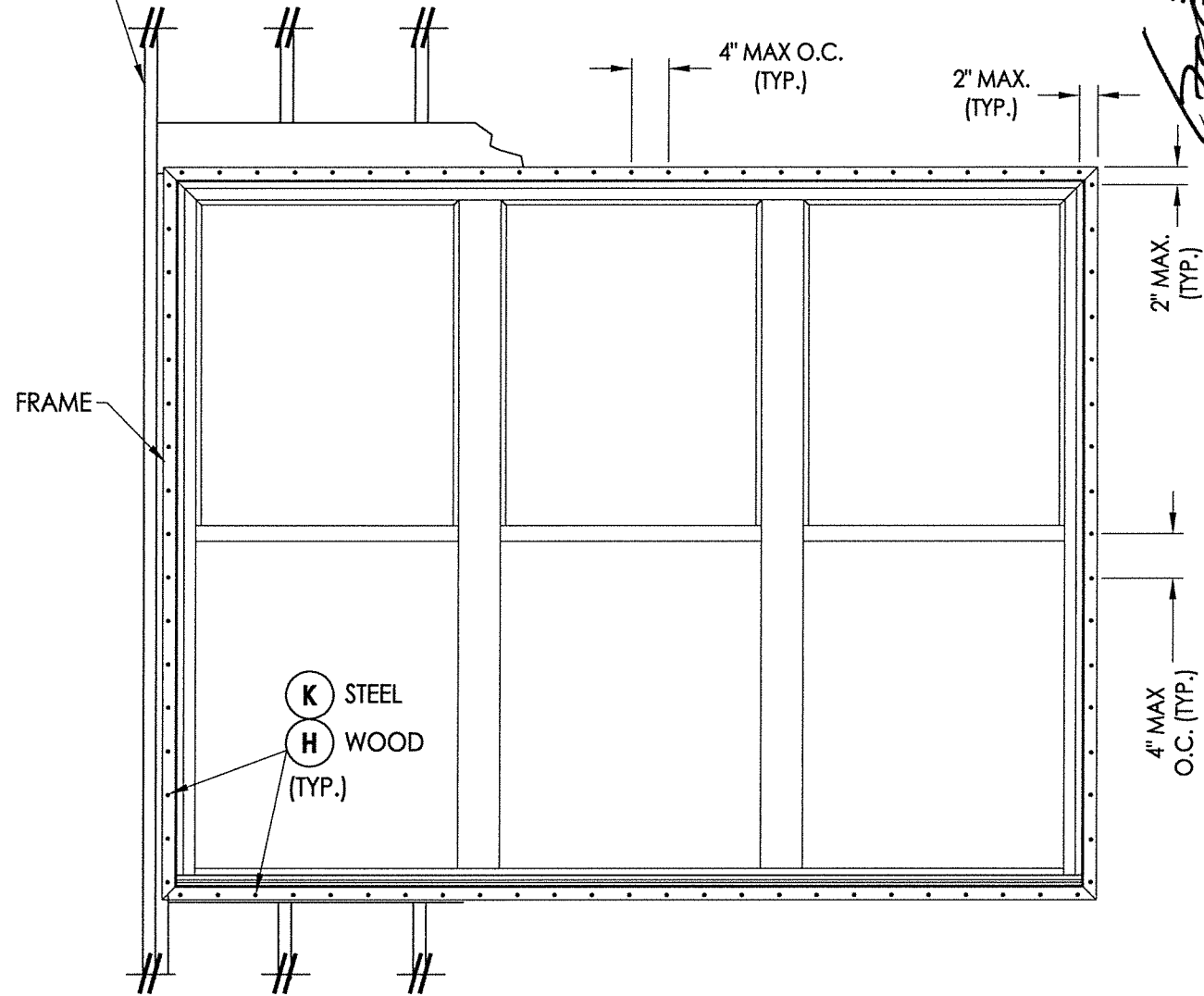
[illegible]

R:\Clients\Associated PERMANENT\A - Florida Product Approvals\FL-27170 Windows - Double Hung (CM)\C - Drawings\FL-27170 (2020)\FL-27170.6-7.dwg, 4-5

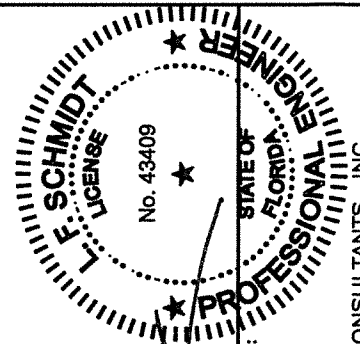


FRAME ANCHORING
Masonry 2X Buck Construction

2X WOOD OR STEEL STUD FRAMING TO BE DESIGNED BY THE
ENGINEER OR ARCHITECT OF RECORD.



FRAME ANCHORING
Stud Construction



September 30, 2020

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
FRAME ANCHORING

REVISIONS	
NO.	DATE
1	9/30/20
UPDATE TO 7TH ED. (2020) FBC	
LFS	BY

DATE: 11/14/19

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

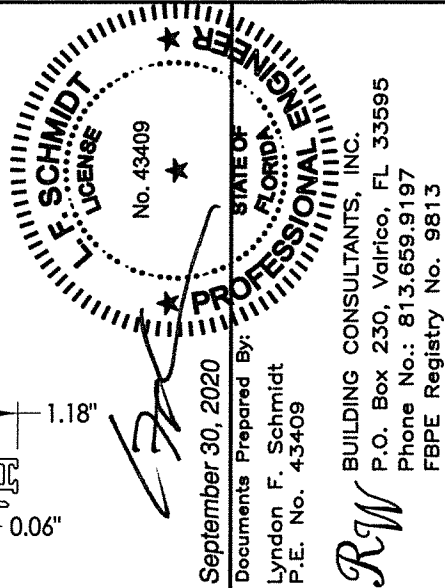
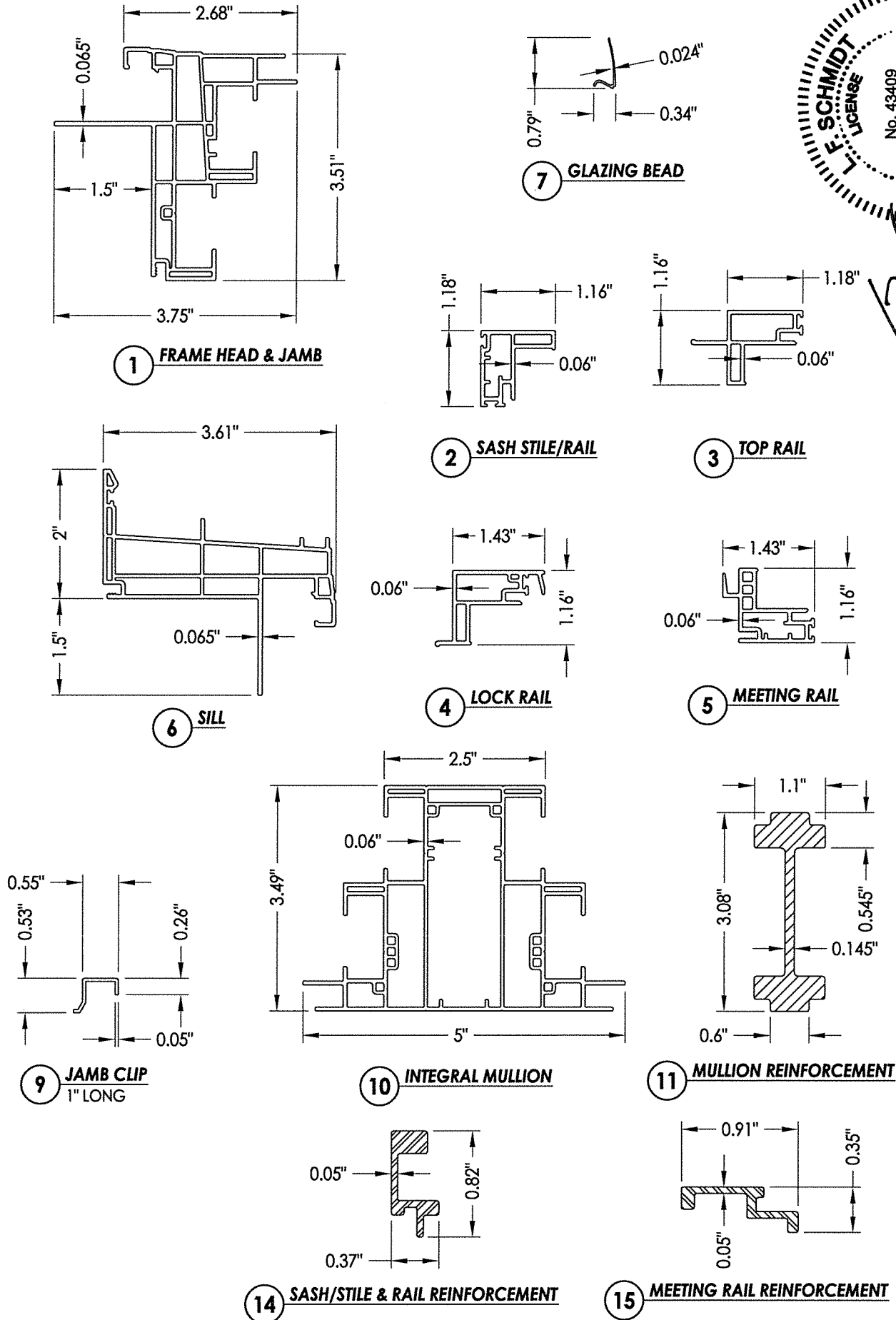
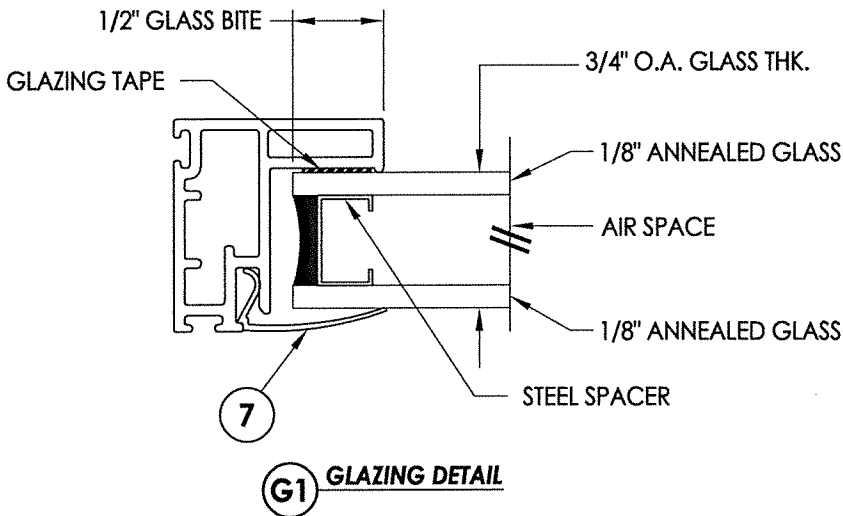
DRAWING NO.:
FL-27170.7

SHEET 5 OF 6

R:\Clients\Associated PERMANENT\A - Florida Product Approvals\FL-27170 Windows - Double Hung (CM)\C - Drawings\FL-27170 (2020)\FL-27170.6-7.dwg, 4-6

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#8 X 2" PPH SMS (1-3/4" MIN. EMBEDMENT)	STEEL
H	#8 X 2-1/2" PPH SMS (1-3/4" MIN. EMBEDMENT)	STEEL
K	#10 PPH SELF-DRILLING SMS	STEEL
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)	STEEL
1	EXTRUDED VINYL FRAME HEAD & JAMB*	RIGID PVC
2	EXTRUDED VINYL SASH STILE/RAIL*	RIGID PVC
3	EXTRUDED VINYL TOP RAIL*	RIGID PVC
4	EXTRUDED VINYL LOCK RAIL*	RIGID PVC
5	EXTRUDED VINYL MEETING RAIL*	RIGID PVC
6	EXTRUDED VINYL SILL*	RIGID PVC
7	EXTRUDED VINYL GLAZING BEAD*	RIGID PVC
8	WEATHERSTRIP (FIN PILE)	-
9	JAMB CLIP	S.S.
10	INTEGRAL MULLION*	RIGID PVC
11	MULLION REINFORCEMENT (8021)(6063-T6)	ALUM
14	SASH / STILE & RAIL REINFORCEMENT (S-047)(6063-T5)	ALUM
15	MEETING RAIL REINFORCEMENT (S-050)(6061-T6)	ALUM
20	CAM LOCK	-

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



September 30, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairco, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOUBLE HUNG WINDOW	
PART OR ASSEMBLY:		BILL OF MATERIALS, GLAZING DETAILS & COMPONENTS	
NO.	DATE	UPDATE TO 7TH ED. (2020) FBC	LFS
			BY
REVISIONS			
DATE: 11/14/19			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-27170.7			
SHEET 6 OF 6			