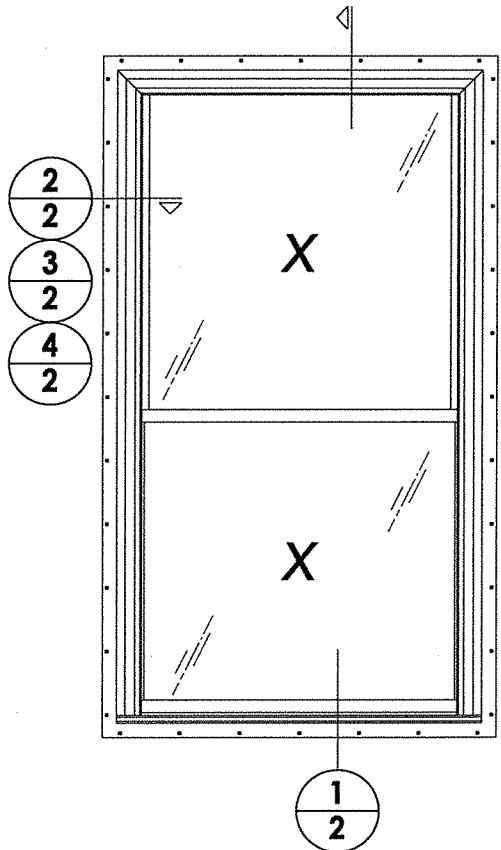
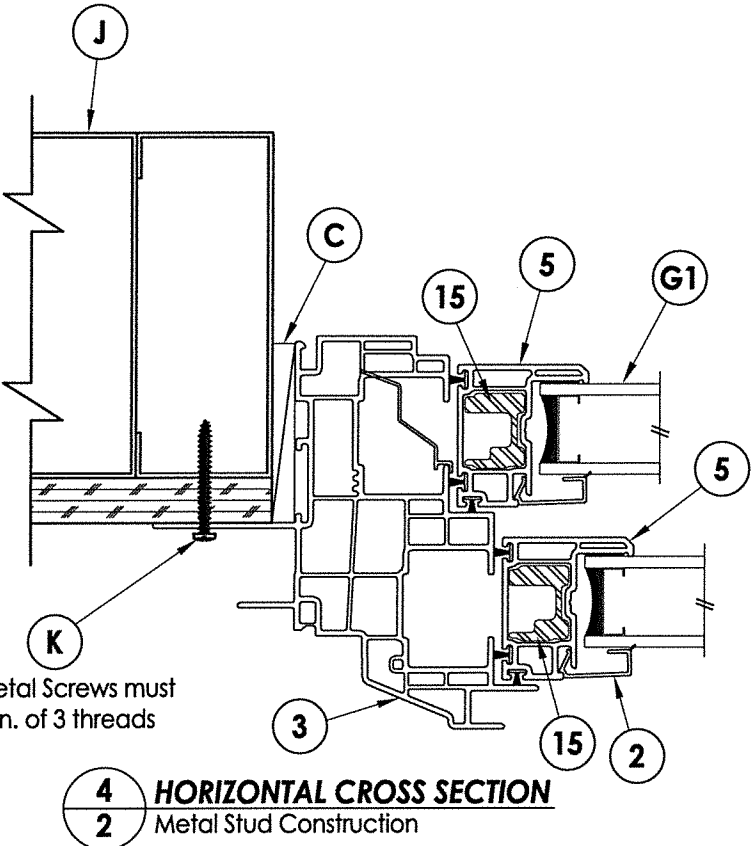
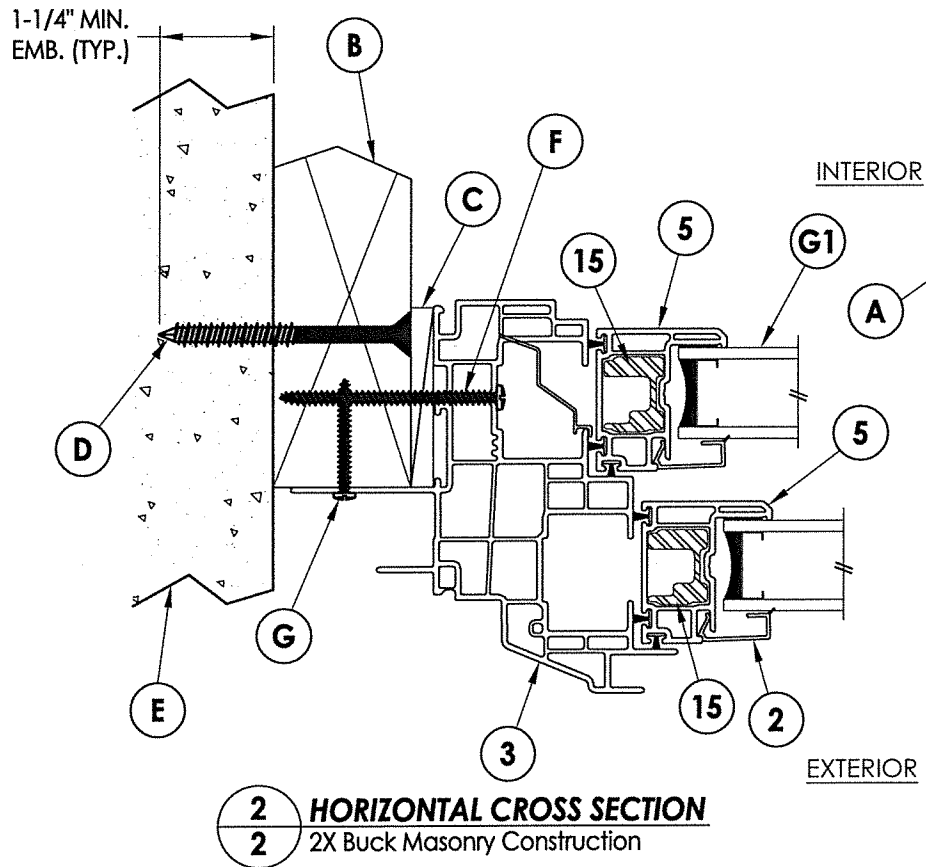


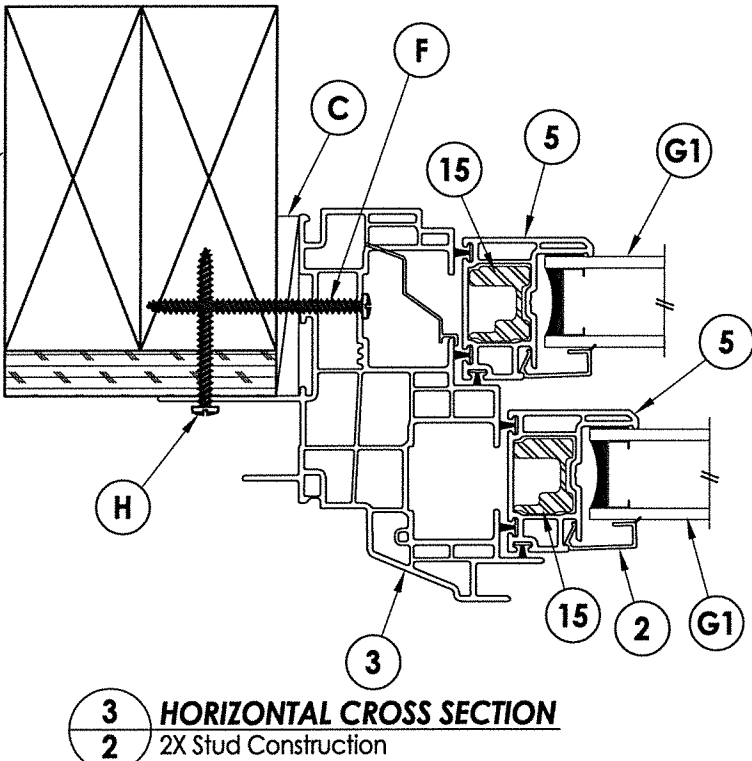
R:\Clients\Sunrise Windows\A - Florida Product Approvals\FL-26910 - Double Hung Window\C - Drawings\FL-26910.11-12.dwg, 2.1



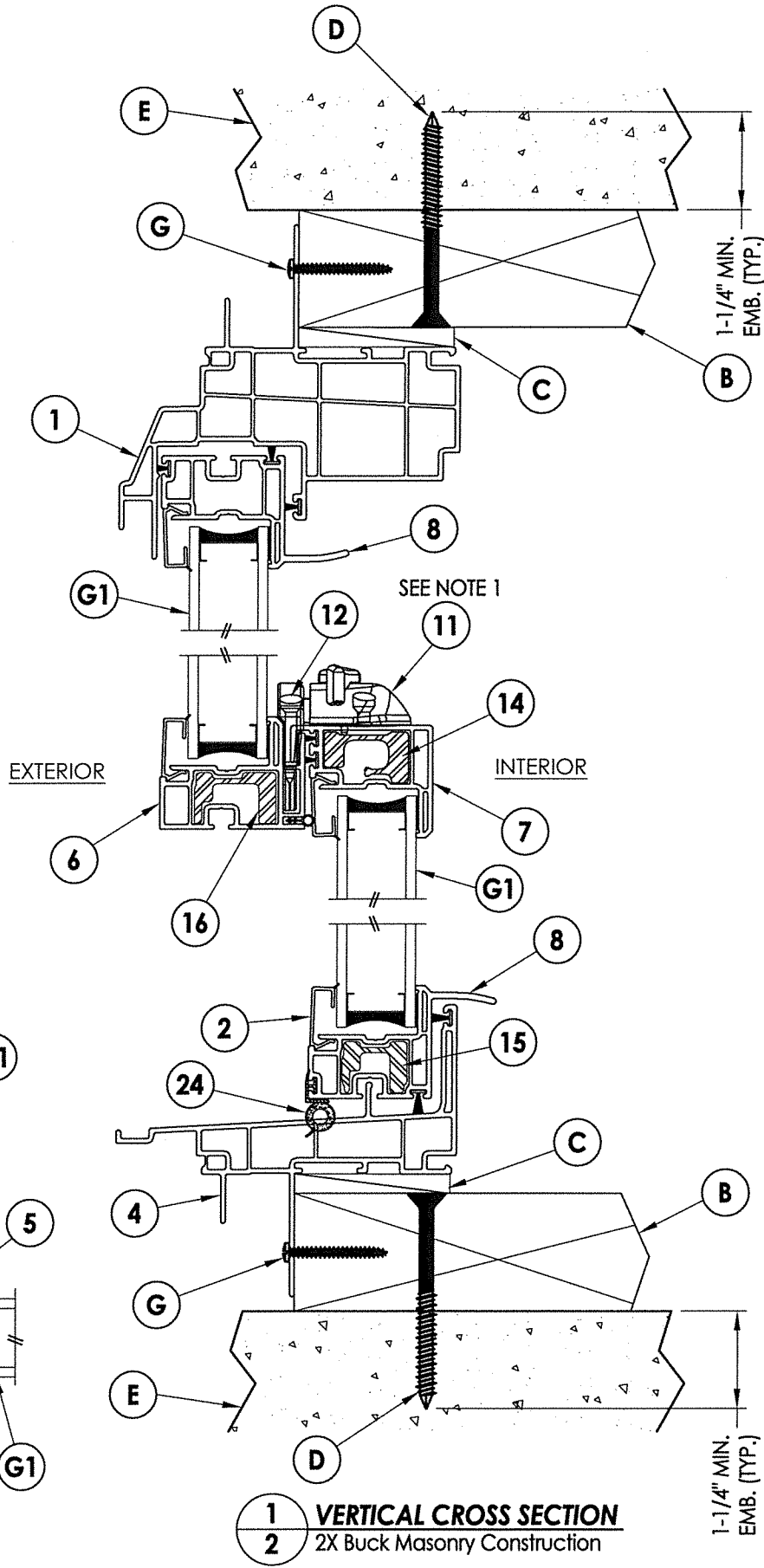
NOTE:
1. LOCK & KEEPER LOCATED 7" FROM EACH END OF LOCK/MEETING RAIL.



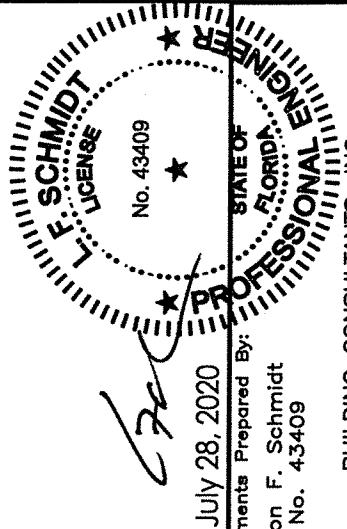
4
2 HORIZONTAL CROSS SECTION
Metal Stud Construction



3
2 HORIZONTAL CROSS SECTION
2X Stud Construction



1
2 VERTICAL CROSS SECTION
2X Buck Masonry Construction



Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		July 28, 2020		R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry License No. 9813	
PRODUCT: DOUBLE HUNG WINDOW		PART OR ASSEMBLY: VERTICAL & HORIZONTAL CROSS SECTIONS			
				REVISIONS	
				NO.	DATE
				1	7/27/20
				UPDATE TO 7TH ED (2020) FBC	
				LFS	BY
DATE: 9/5/19		SCALE: N.T.S.			
DWG. BY: TRJ		CHK. BY: LFS			
DRAWING NO.: FL-26910.11					
SHEET 2 OF 5					

7" MAX. O.C. (TYP.)

2" (TYP.)

2" (TYP.)

7" MAX. O.C. (TYP.)

FRAME

MASONRY OPENING

G (TYP.)

F

Detailed description: This technical drawing illustrates a cross-section of a window frame assembly. The frame is shown as a multi-layered rectangular structure. The top and bottom horizontal sections are labeled '7" MAX. O.C. (TYP.)', indicating the maximum on-center spacing of the framing members. The side vertical sections are labeled '2" (TYP.)', indicating the typical thickness of the frame. The frame is set within a 'MASONRY OPENING', which is shown as a rough-hewn opening in a masonry wall. The frame itself is labeled 'FRAME'. Inside the frame, there are two circular components: 'G (TYP.)' at the top and 'F' at the bottom. 'G' is connected to the top frame by a line, and 'F' is connected to the bottom frame by a line. A dashed horizontal line is also shown within the frame, passing through the center of 'F'. The masonry opening is shown with a rough, irregular texture, while the frame is shown with a smooth, finished appearance.

7" MAX. O.C. (TYP.)

2" (TYP.)

2" (TYP.)

7" MAX. O.C. (TYP.)

2X STUD/STEEL FRAMING (BY OTHERS)

FRAME

2X STUD STEEL (TYP.)

H

K

F

K

Detailed description: This is a technical cross-section drawing of a window frame assembly. The drawing shows a rectangular window opening. The outermost layer is labeled '2X STUD/STEEL FRAMING (BY OTHERS)'. Inside this is a 'FRAME'. The frame consists of a '2X STUD STEEL (TYP.)' member, which is further detailed with callouts 'H' and 'K'. The frame is supported by a '2X STUD STEEL (TYP.)' member, with callouts 'F' and 'K'. Dimensions are indicated with arrows: '7" MAX. O.C. (TYP.)' for the top and bottom spacing, '2" (TYP.)' for the side spacing, and '7" MAX. O.C. (TYP.)' for the bottom spacing. A dashed line indicates a break in the frame member.

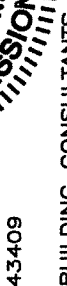
DATE:	9/5/19		
SCALE:	N.T.S.		
DWG. BY:	TRJ		
CHK. BY:	LFS		
DRAWING NO.:	FL-26910.11		
SHEET	<u>3</u>	OF	<u>5</u>

NO.	DATE	UPDATE TO 7TH ED (2020)	FBC	LFS	BY
1	7/27/20				

PRODUCT: DOUBLE HUNG WINDOW	PART OR ASSEMBLY: BUCK & FRAME ANCHORING
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DOCUMENTS PREPARED BY: Lyndon F. Schmidt P.E. No. 43409	BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry License No. 9813
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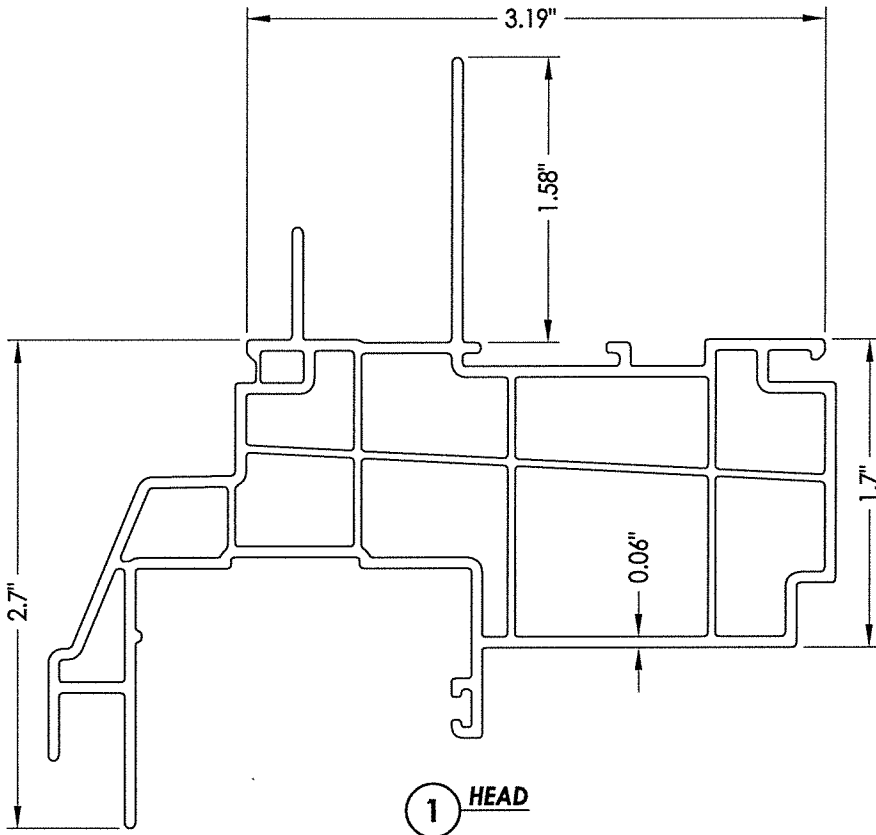
July 28, 2020



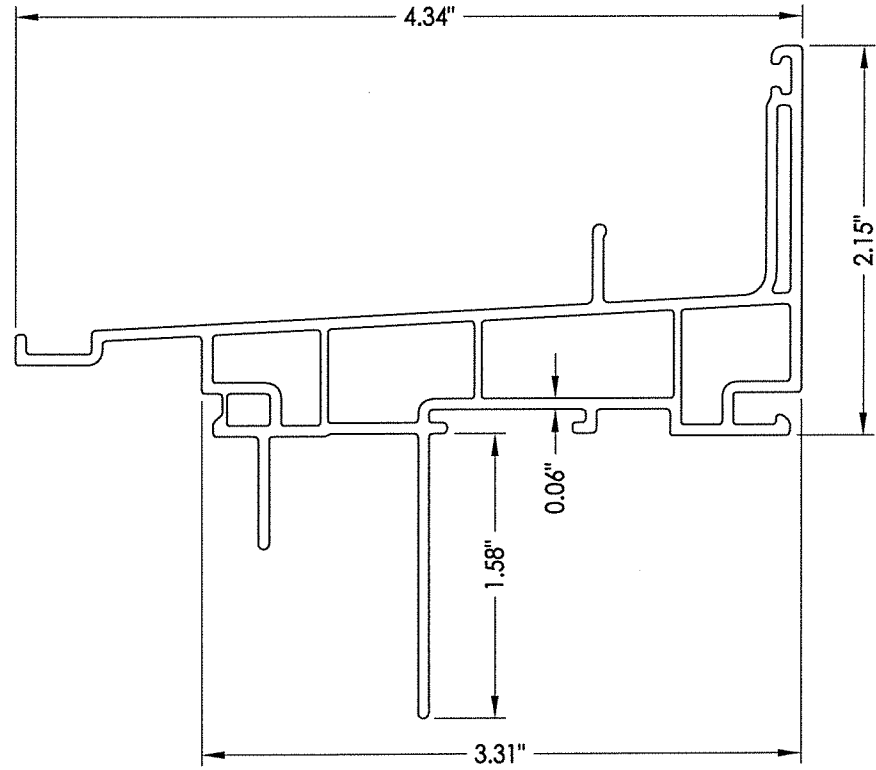
LFS

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"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"

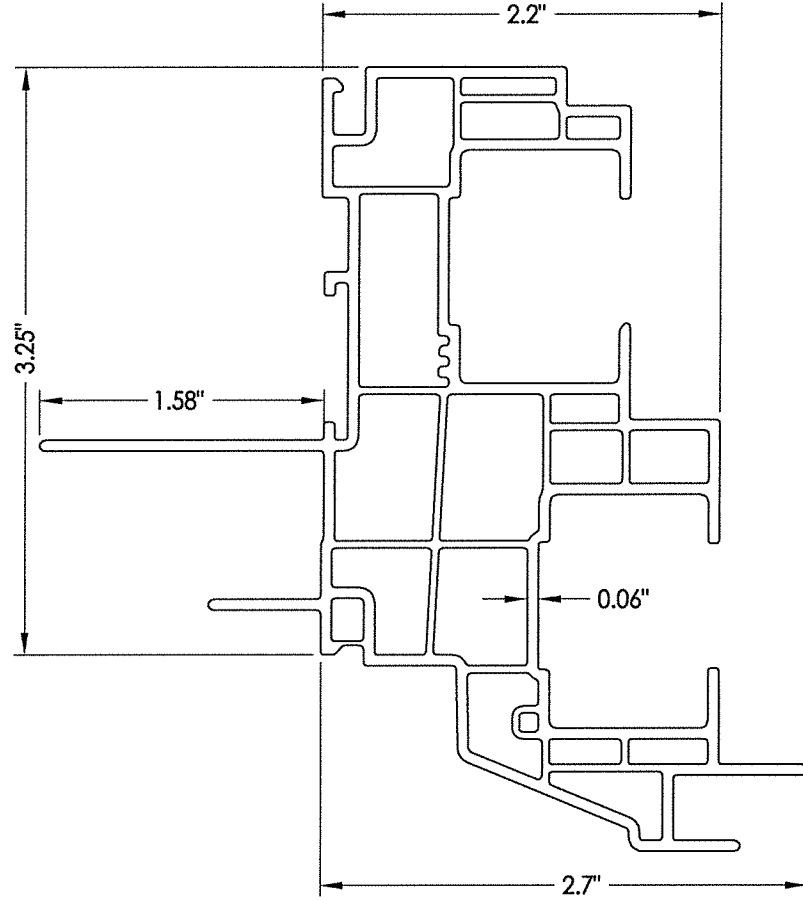
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



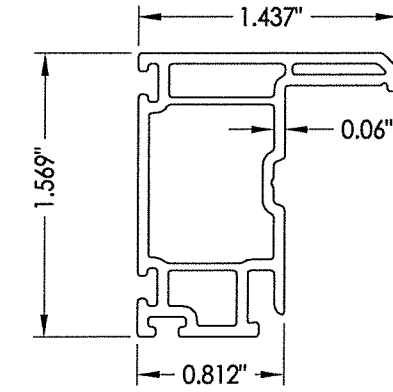
1 HEAD



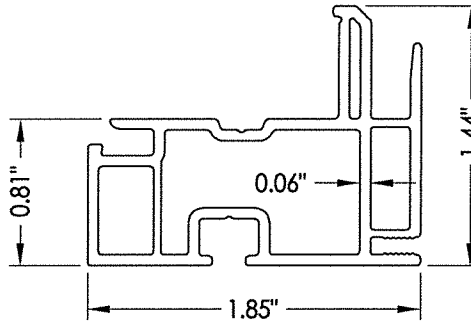
4 SILL



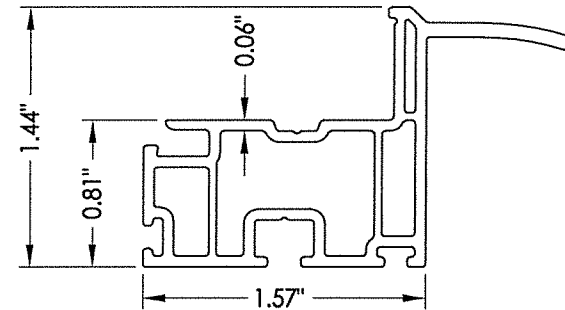
3 JAMB



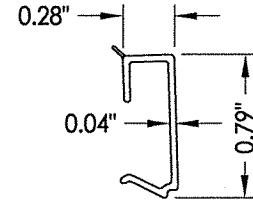
5 STILE



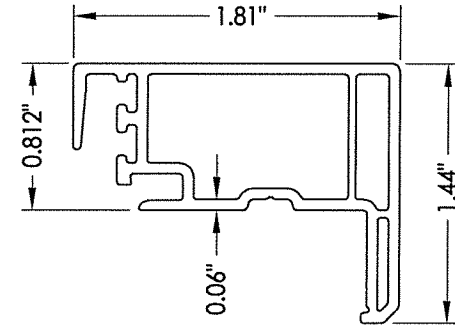
6 KEEPER RAIL



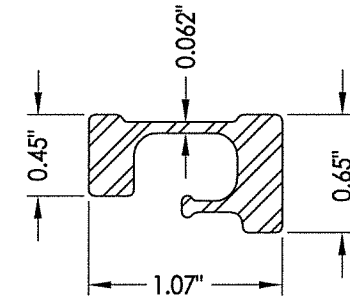
8 HANDLE RAIL



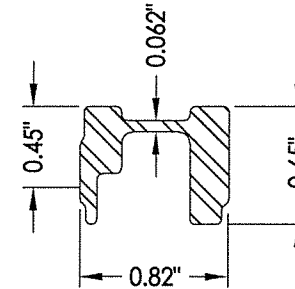
2 GLAZING BEAD



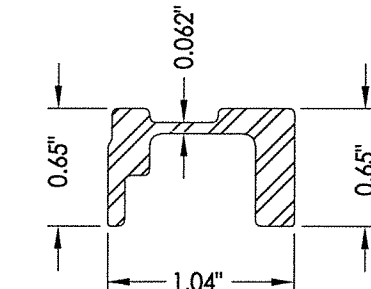
7 LOCK RAIL



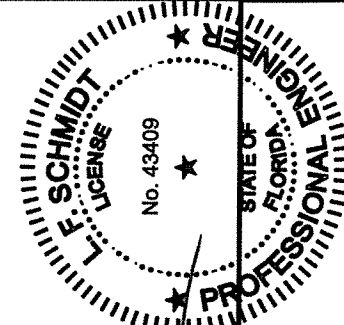
14 LOCK RAIL REINFORCEMENT



15 STILE/RAIL REINFORCEMENT



16 KEEPER RAIL REINFORCEMENT



July 28, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

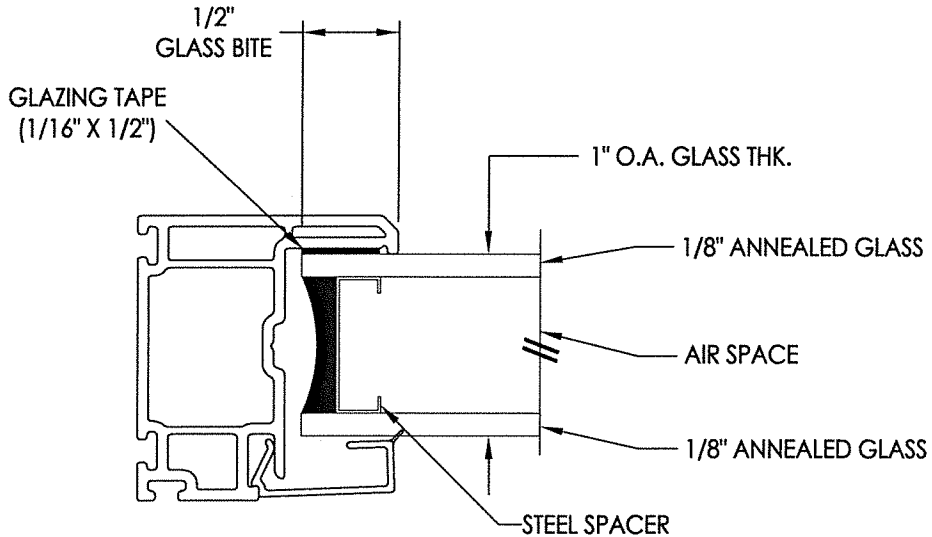
PRODUCT:
DOUBLE HUNG WINDOW
PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS
1	7/27/20	UPDATE TO 7TH ED (2020) FBC
LFS	BY	

DATE: 9/5/19
SCALE: N.T.S.
DWG. BY: TRJ
CHK. BY: LFS
DRAWING NO.: FL-26910.11
SHEET 4 OF 5

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X STUD (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 ELCO 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 2-1/2" PPH SMS (1-7/16" MIN. EMBEDMENT)	STEEL
G	#8 X 1-1/4" PPH SMS (1-1/8" MIN. EMBEDMENT)	STEEL
H	#8 X 1-3/4" PPH SMS (1-1/8" MIN. EMBEDMENT)	STEEL
J	STEEL STUD Min. Thk. .033" (ASTM A653 GRADE 33 Fy=33 ksi min., Fu=45 ksi min.)	STEEL
K	#10 PPH SELF-DRILLING SMS	STEEL
1	HEAD (1821)*	RIGID PVC
2	GLAZING BEAD (836B)*	RIGID PVC
3	JAMB (1823)*	RIGID PVC
4	SILL (1822)*	RIGID PVC
5	STILE (1808)*	RIGID PVC
6	KEEPER RAIL (1817)*	RIGID PVC
7	LOCK RAIL (1806)*	RIGID PVC
8	HANDLE RAIL (1805)*	RIGID PVC
10	WEATHERSTRIP - FIN PILE	-
11	SASH LOCK	COMPOSITE
12	KEEPER	-
14	LOCK RAIL REINFORCEMENT (16582)	ALUM
15	STILE/RAIL REINFORCEMENT (16579)	ALUM
16	KEEPER RAIL REINFORCEMENT (16581)	ALUM
24	BULB GASKET	FOAM

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



G1 GLAZING DETAIL

