

R:\Clients\Associated PERMANENT\A - Florida Product Approvals\FL-27170 Windows - Double Hung (CM)\C - Drawings\FL-27170 (2020)\FL-271702.dwg, FL-271702

SERIES 1900 MODEL 1901HP

DOUBLE HUNG WINDOW

w/ NAILING FIN

"NON-IMPACT"

GENERAL NOTES

1.

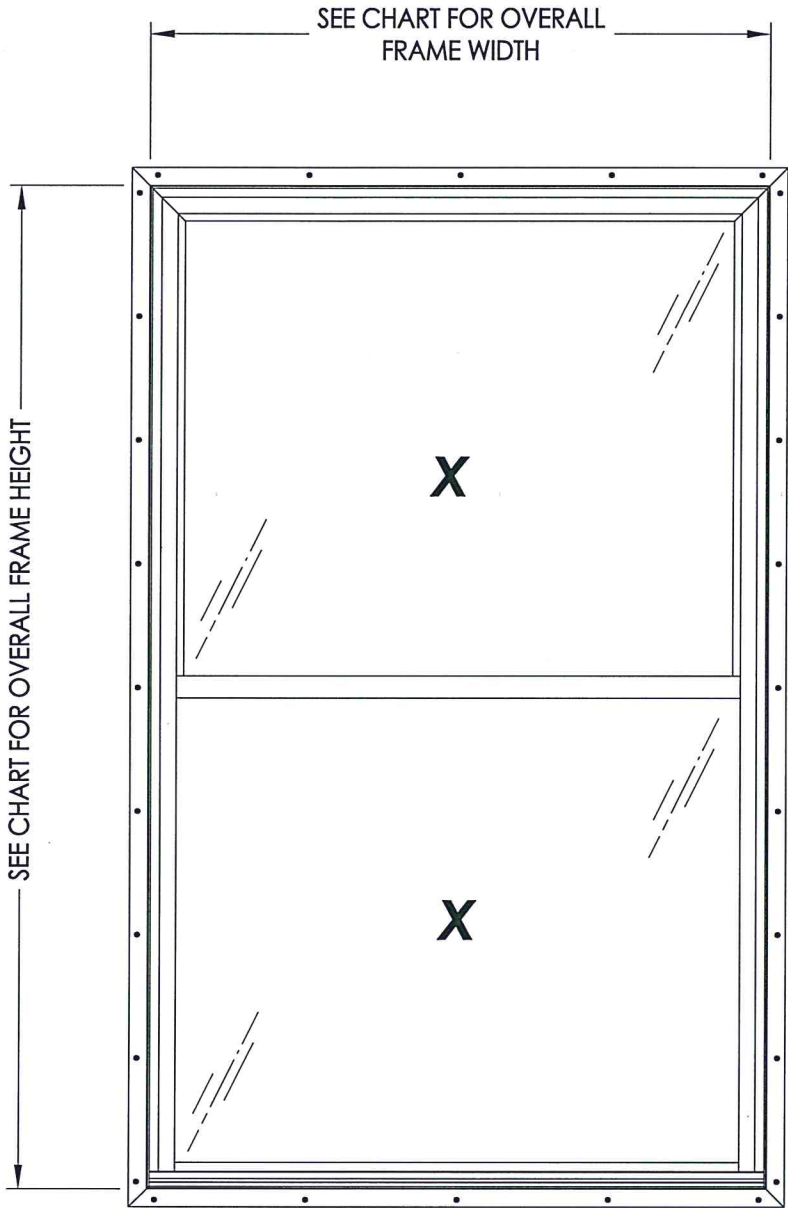
This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ). See the Certification Agency Certificate for sizes, specifications and ratings.
2.

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 and frame anchoring
5	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
43.0" x 75.0"	40.0" x 72.0"	34.375" x 32.875"	35.5" x 32.875"	G1	+45.0	-45.0
41.0" x 77.0"	38.0" x 74.0"	32.375" x 33.875"	33.5" x 33.875"		+40.0	-40.0
35.0" x 63.0"	32.0" x 60.0"	26.25" x 26.75"	27.5" x 26.75"		+50.0	-50.0
41.0" x 71.0"	38.0" x 68.0"	32.125" x 31.75"	33.5" x 31.75"		+50.0	-50.0

FL SCHMIDT

FL LICENSE

No. 43409

★

STATE OF FLORIDA

PROFESSIONAL ENGINEER

September 30, 2020

Documents Prepared By:

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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:

TYPICAL ELEVATION, DESIGN PRESSURE AND GENERAL NOTES

REVISIONS

NO.	DATE	REVISIONS
2	9/30/20	UPDATE TO 7TH ED. (2020) FBC
1	3/04/19	REVISE FOR NEW TESTING

DATE:

6/05/18

SCALE:

N.T.S.

DWG. BY:

JK

CHK. BY:

LFS

DRAWING NO.:

FL-27170.2

SHEET

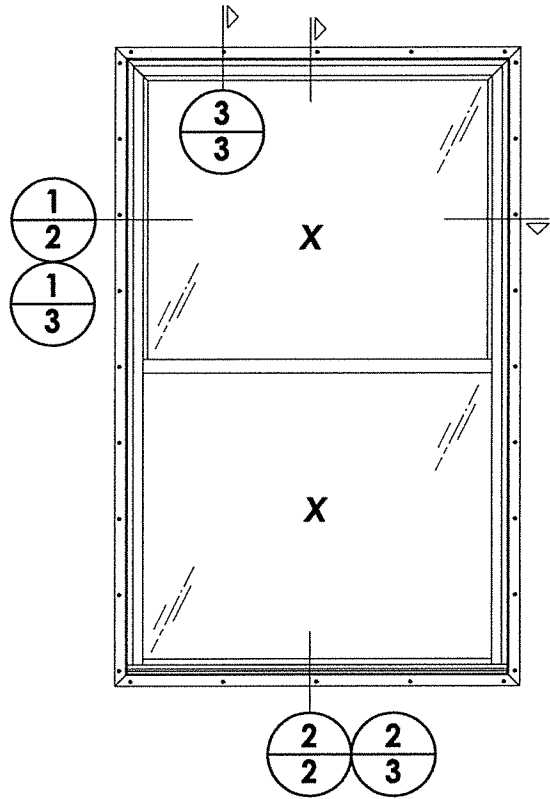
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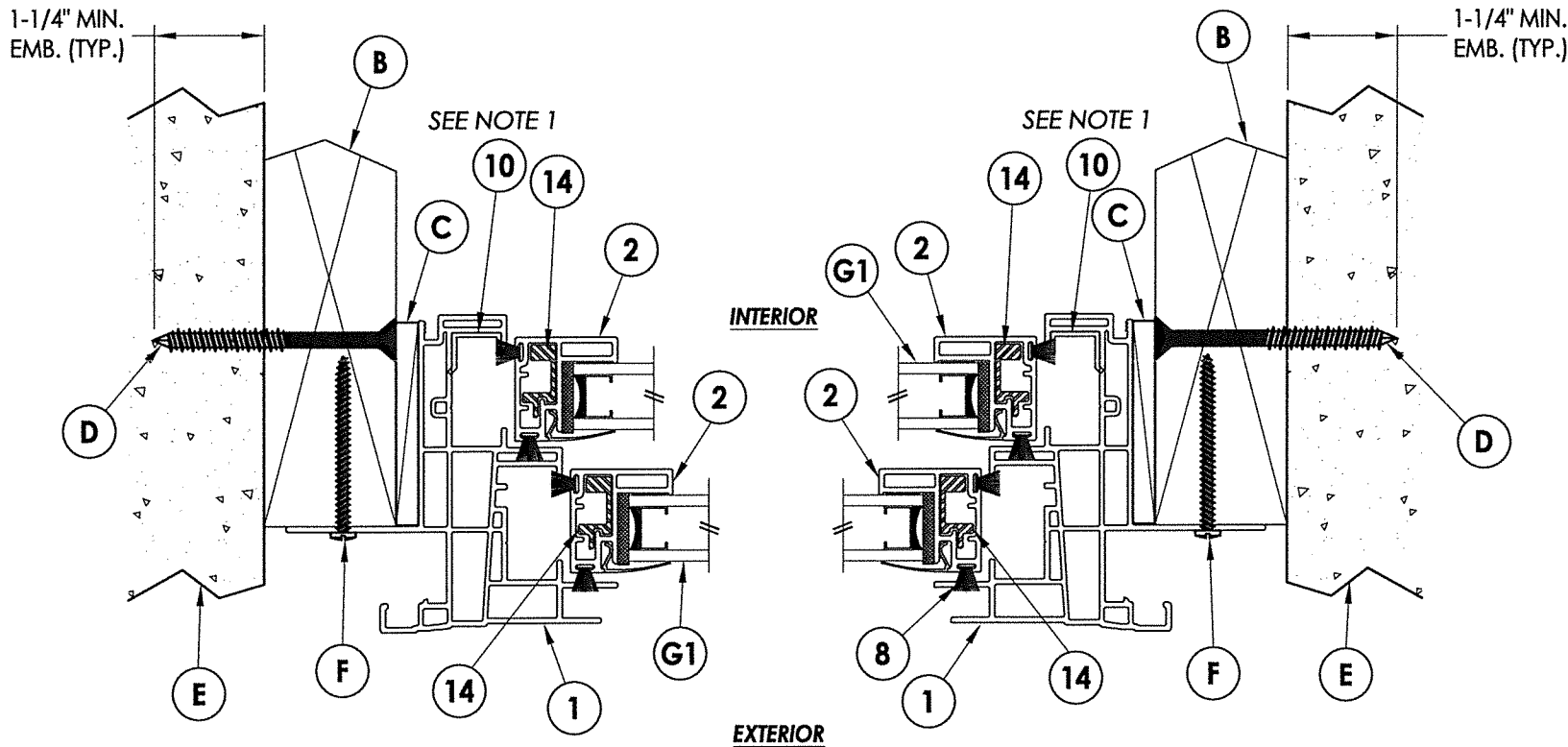
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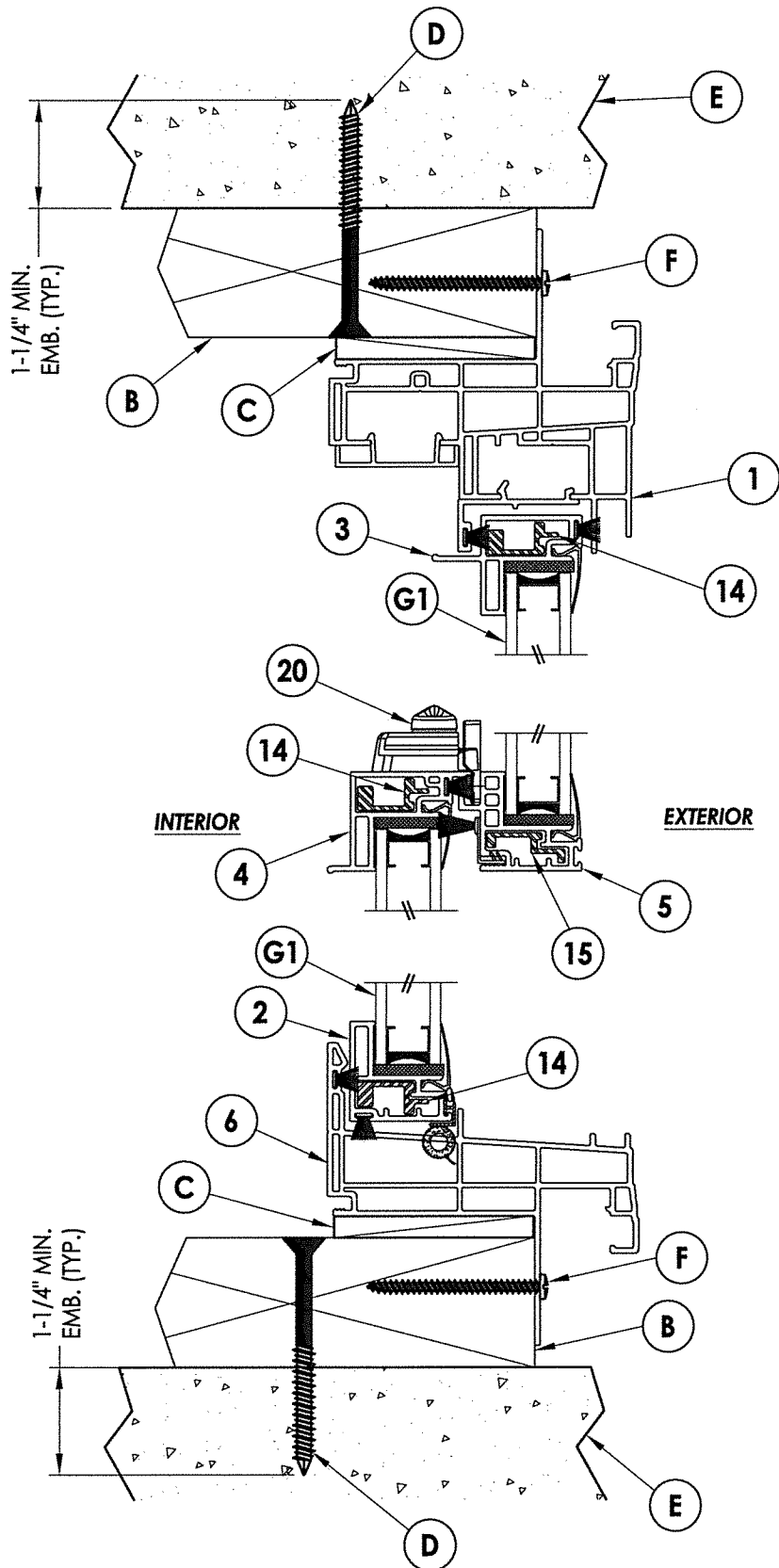
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NOTE:
1. SNAP-IN JAMB CLIP & SUBMARINE TILT LATCH
REQUIRED FOR FRAME SIZES > 32" X 60".



1 HORIZONTAL CROSS SECTION
2 2x Buck Construction



2 VERTICAL CROSS SECTION
2 2x Buck Construction

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September 30, 2020

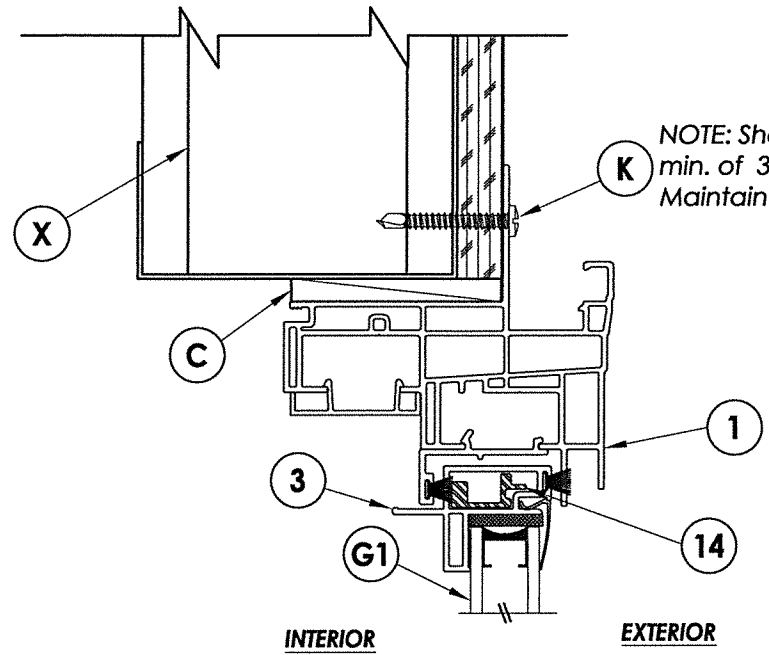
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FBPE Registry No. 9813

PRODUCT:		DOUBLE HUNG WINDOW	
PART OR ASSEMBLY:		VERTICAL & HORIZONTAL CROSS SECTIONS	
DATE:		6/05/18	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-27170.2	
SHEET		2	OF 5

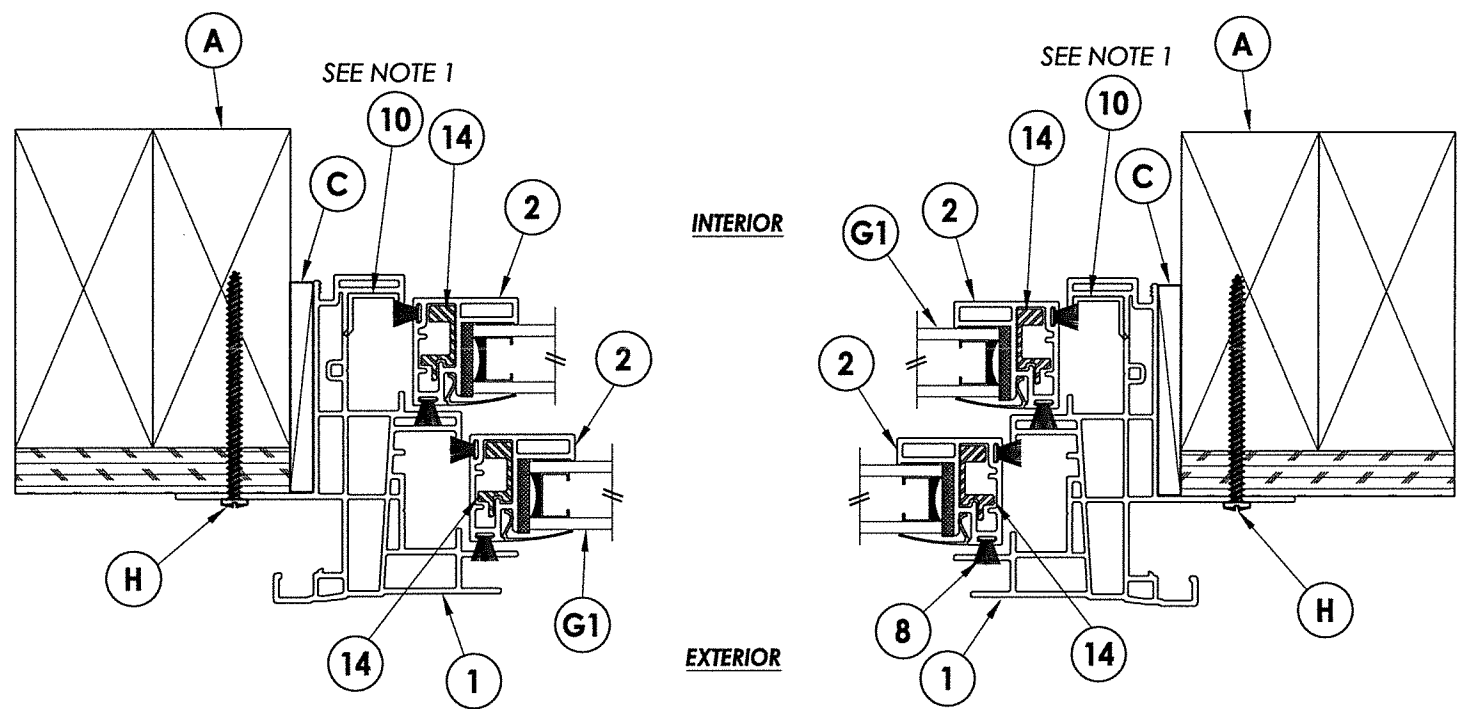
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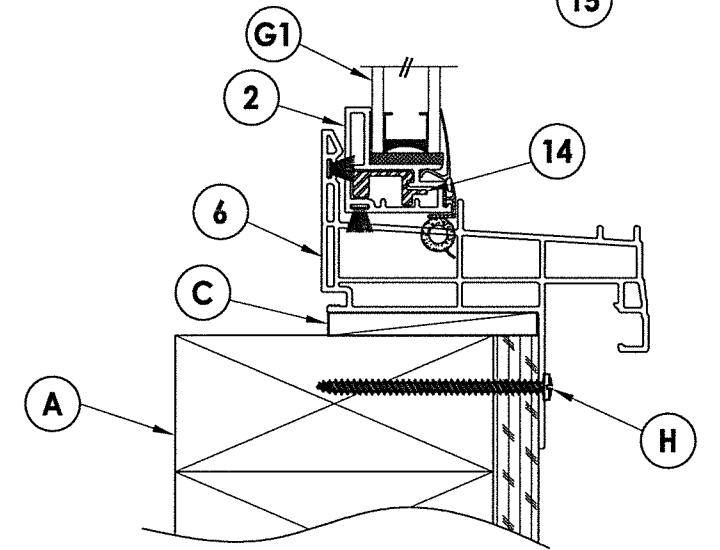
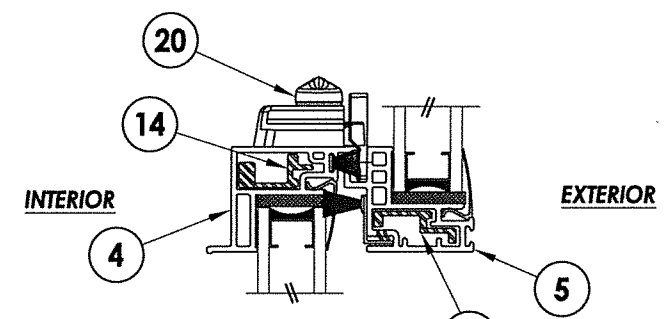
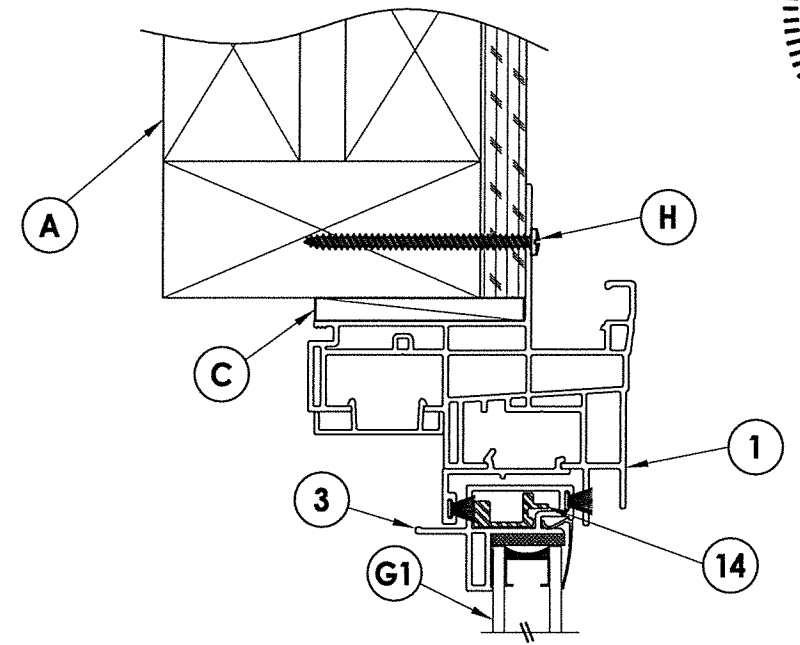
NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through metal stud. Maintain a minimum 5/8" edge distance.

3 VERTICAL CROSS SECTION
3 Steel Stud Construction

NOTE:
1. SNAP-IN JAMB CLIP & SUBMARINE TILT LATCH
REQUIRED FOR FRAME SIZES > 32" X 60".



1 HORIZONTAL CROSS SECTION
3 Stud Construction



2 VERTICAL CROSS SECTION
3 Stud Construction

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PRODUCT:	DOUBLE HUNG WINDOW	
PART OR ASSEMBLY:	VERTICAL & HORIZONTAL CROSS SECTIONS	
NO.	DATE	REVISIONS
2	9/30/20	UPDATE TO 7TH ED. (2020) FBC
1	3/04/19	REVISE FOR NEW TESTING
1		

DATE: 6/05/18

SCALE: N.T.S.

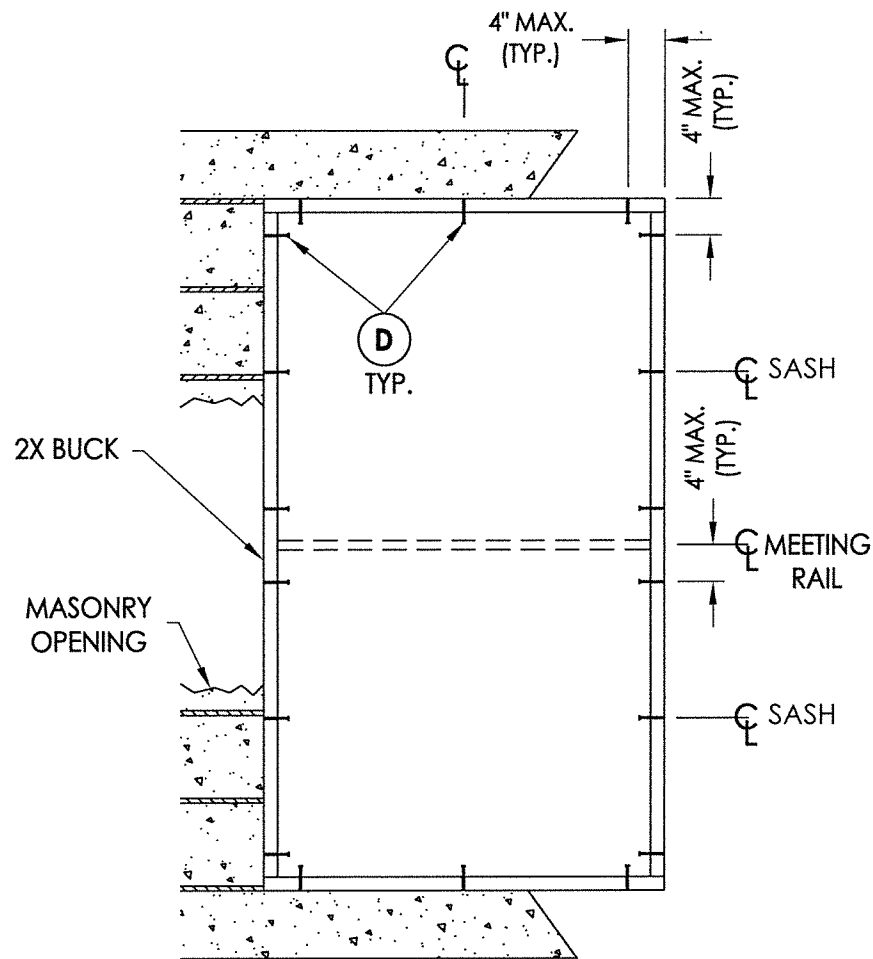
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CHK. BY: LFS

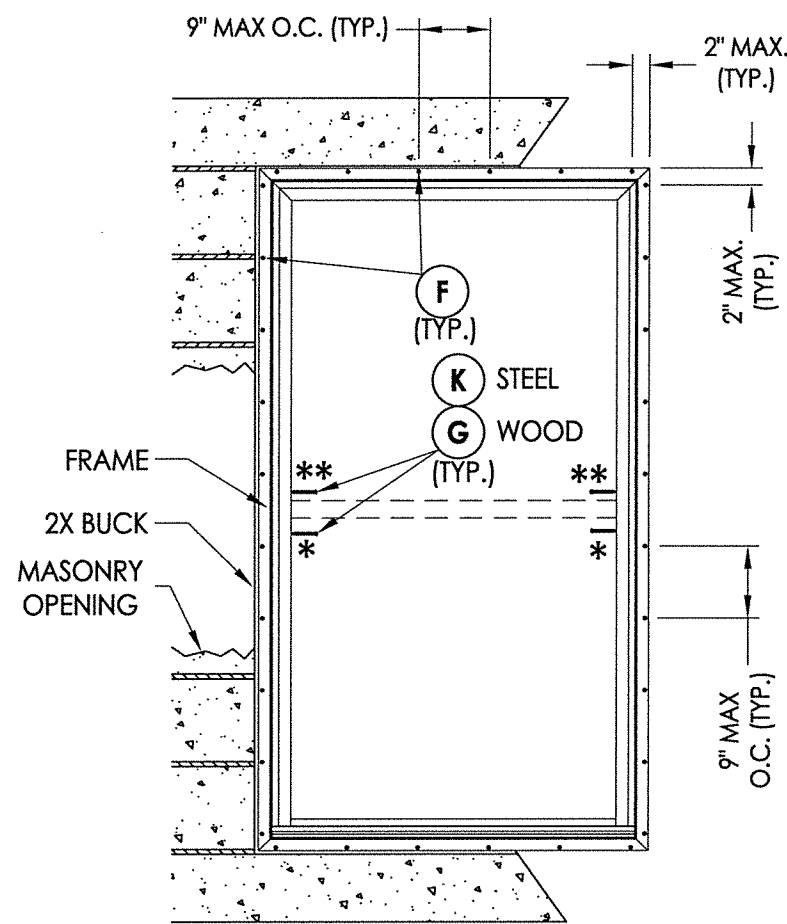
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SHEET 3 OF 5

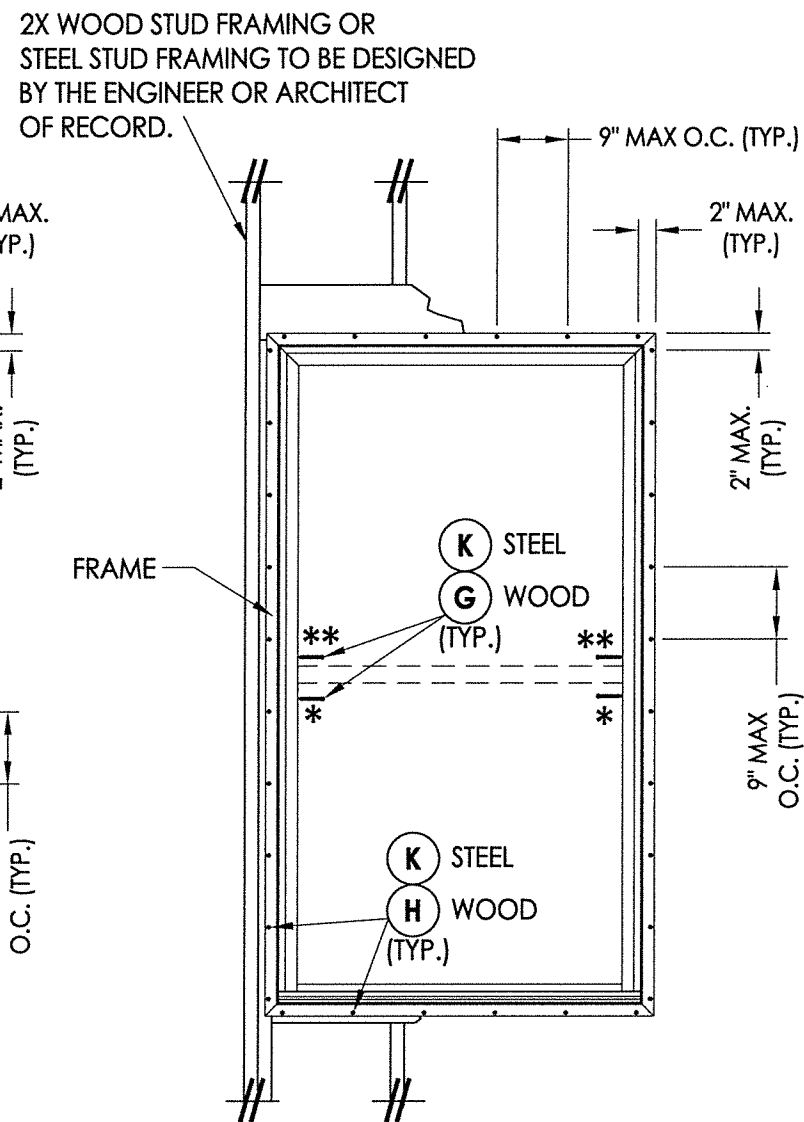
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BUCK ANCHORING



FRAME ANCHORING
Masonry 2X Buck Construction



FRAME ANCHORING
Stud Construction

CONCRETE ANCHOR NOTES:

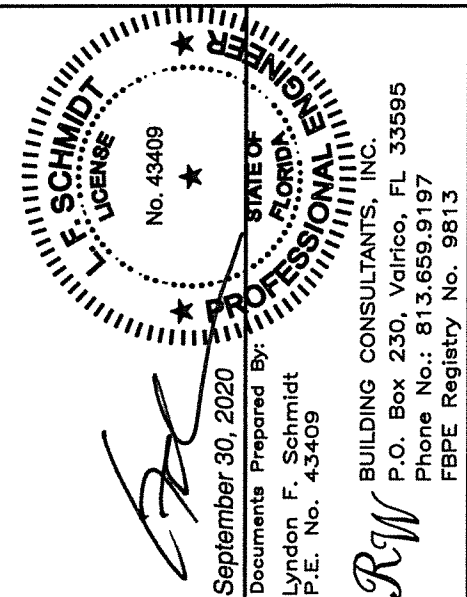
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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 3/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

- *One anchor per jamb at the interior track near the interlock for all window frame sizes where the width > 32" or the height > 60".
- **One anchor per jamb at the exterior track near the interlock for all window frame sizes where the width > 32" or the height > 60" and the design pressure > 45 psf.

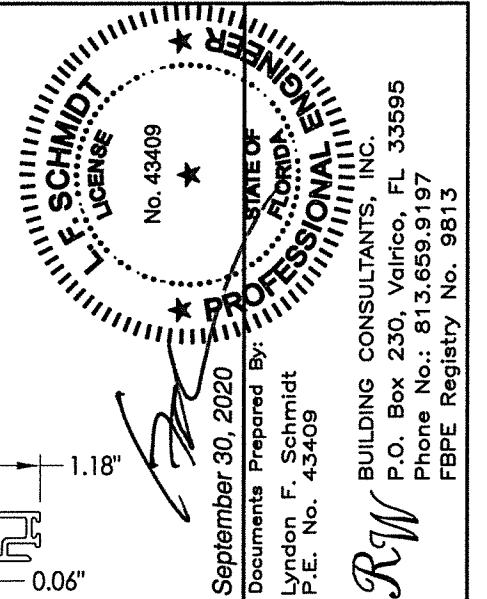
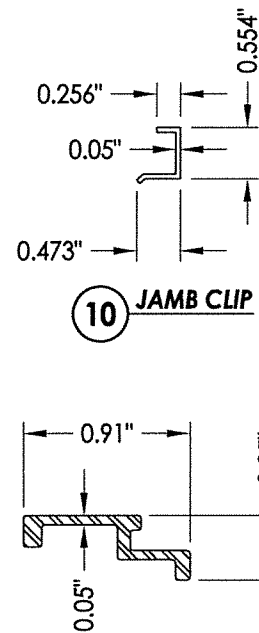
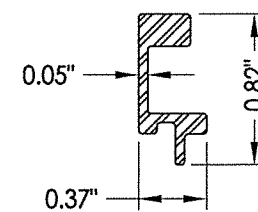
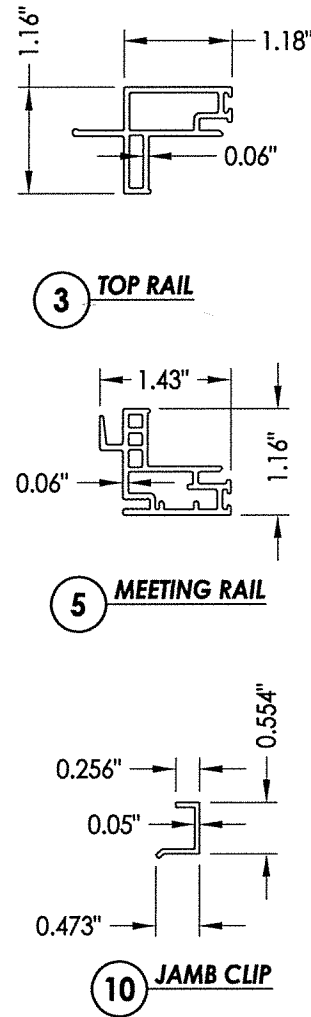
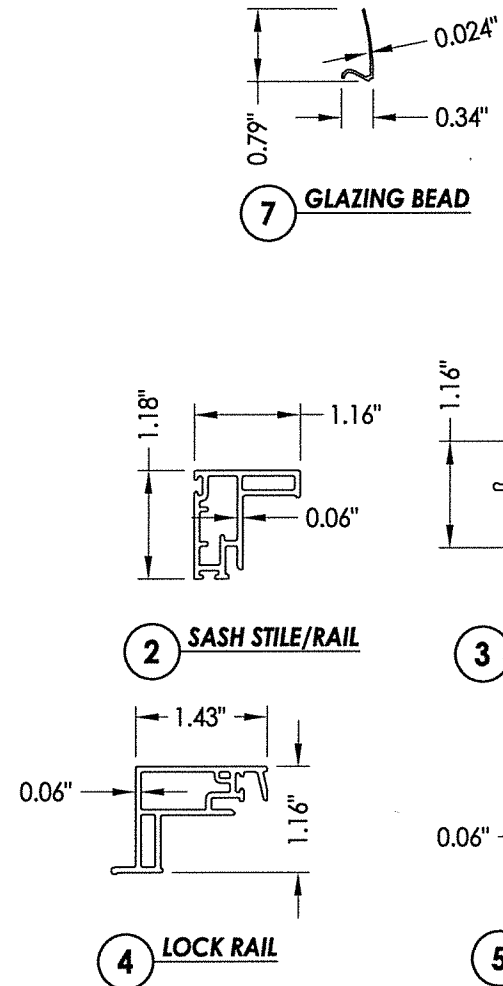
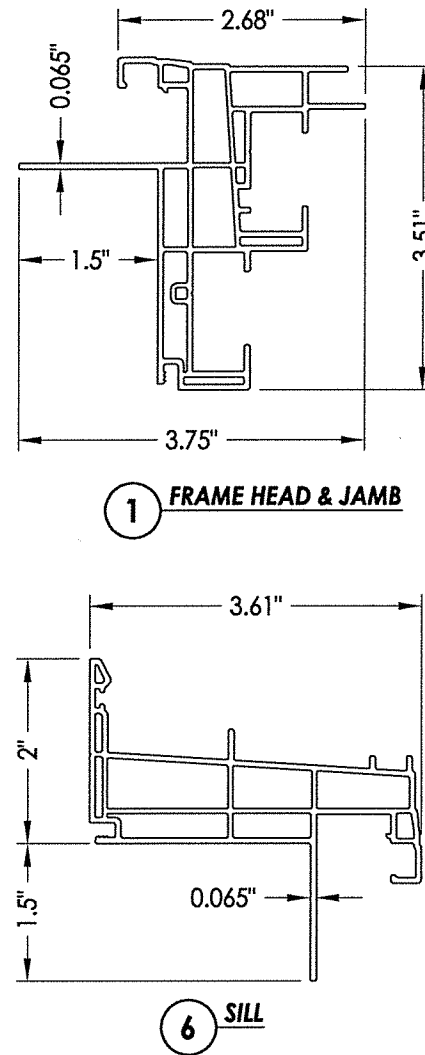
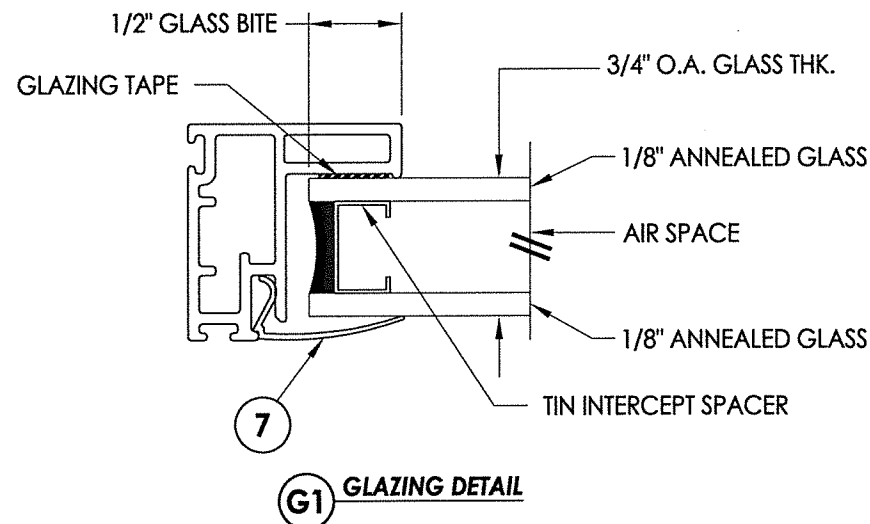


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PRODUCT:	DOUBLE HUNG WINDOW
PART OR ASSEMBLY:	BUCK AND FRAME ANCHORING
DATE:	6/05/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-27170.2
SHEET	4 OF 5

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
G	#8 X 2" PPH SMS (1-1/4" 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)	-
10	JAMB CLIP (@ TILT LATCH)	ST. STEEL
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."

[illegible]