

MILLWORK ARTISANS

145 KING STREET
CHARLESTON, SC 29401

DOUBLE HUNG WINDOW

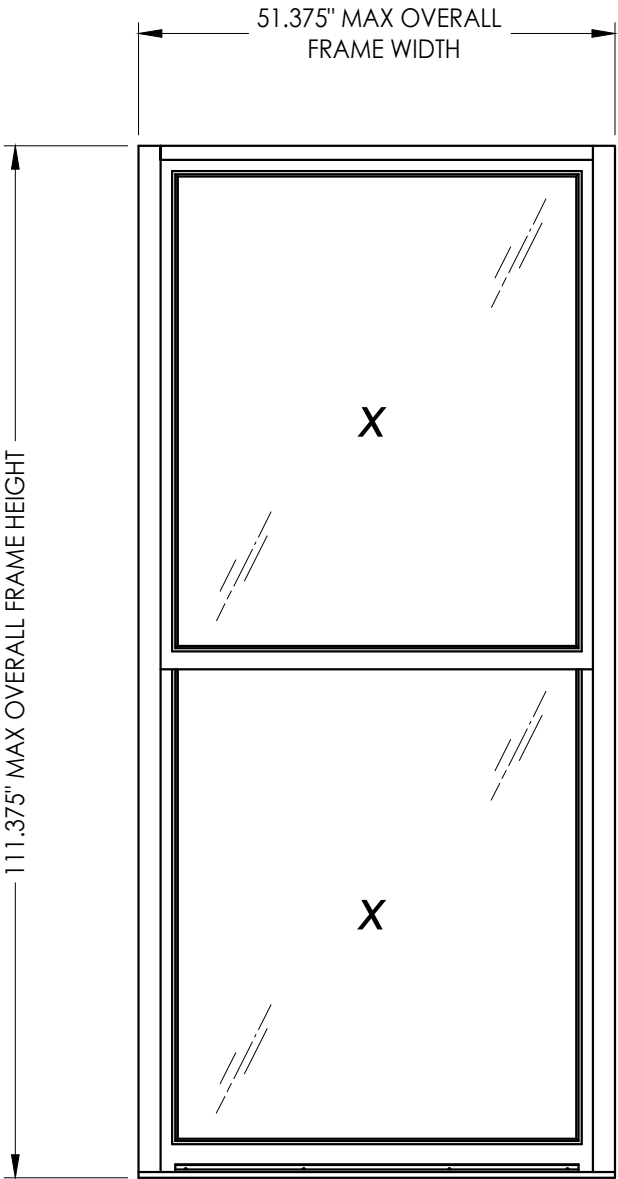
"NON-IMPACT"

GENERAL NOTES

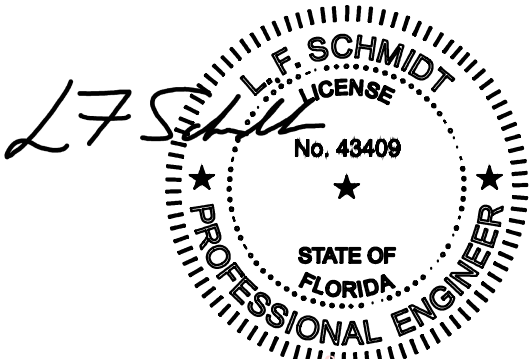
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. All window frame wood to be Sapele (Specific Gravity = 0.55)
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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SHEET #	DESCRIPTION
1	Typical elevation, design pressures, & general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Frame details
5	Buck and frame anchoring
6	Bill of materials, glazing detail and components



OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
51.375" x 111.375"	43.0" x 50.5"	G1	+60.0	-65.0



Digitally signed by Lyndon F Schmidt
Date: 2023.09.14 16:42:52 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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

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

RW

PRODUCT: MILLWORK ARTISANS
DOUBLE HUNG WINDOW
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
4	9/14/23	UPDATE TO 8TH ED. (2023) FBC
3	9/29/20	UPDATE TO 7TH ED. (2020) FBC
2	10/3/17	UPDATE TO 6TH ED. (2017) FBC
1	3/03/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 5/7/14

SCALE: N.T.S.

DWG. BY: JK

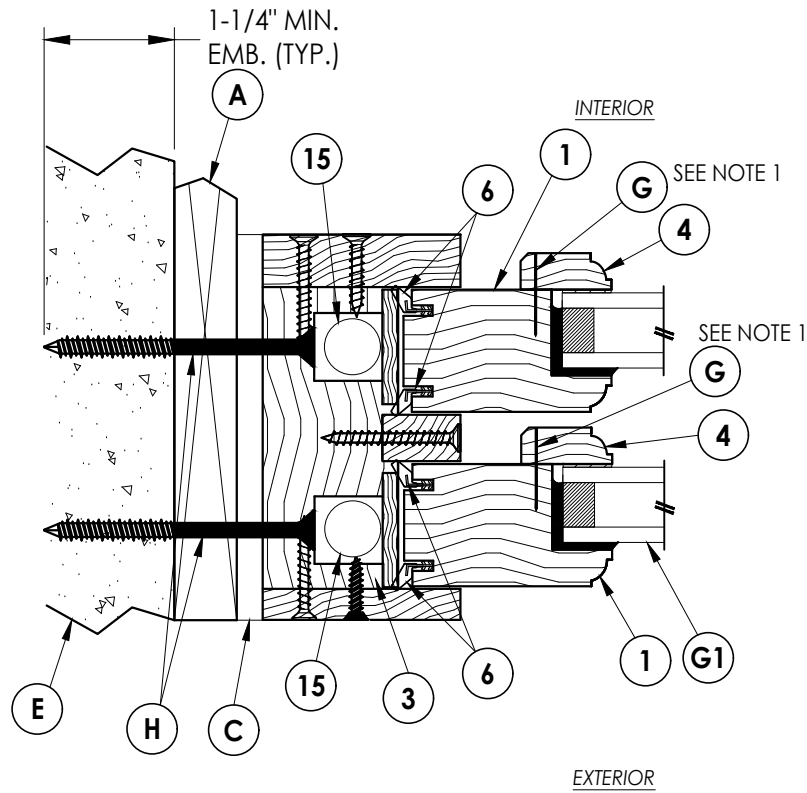
CHK. BY: LFS

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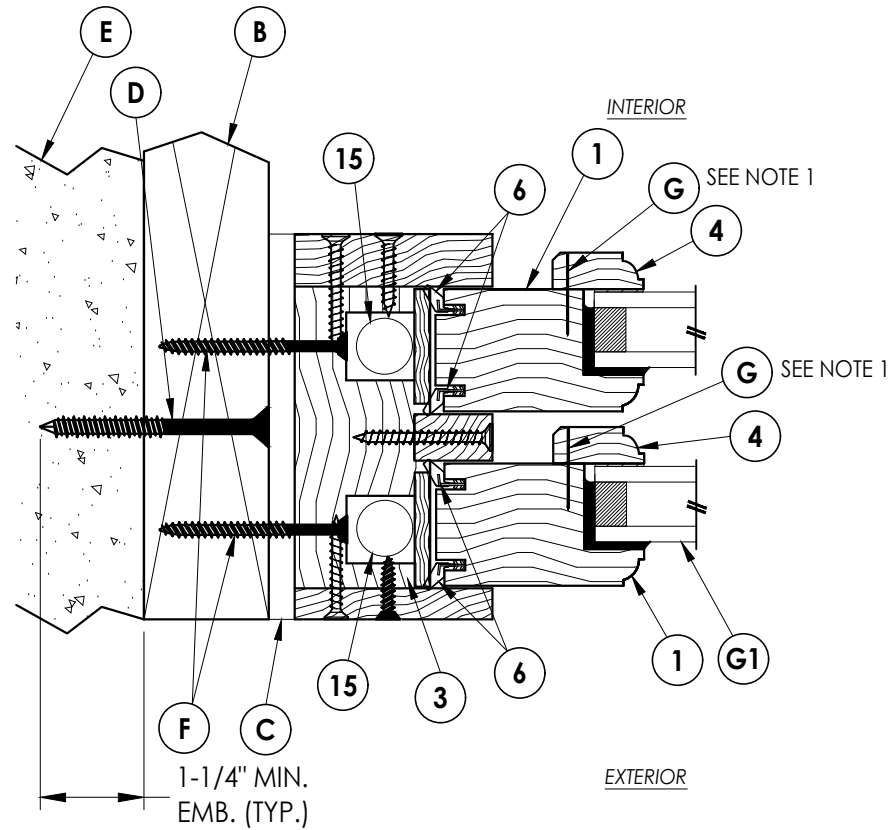
FL-17038.2

SHEET 1 OF 6

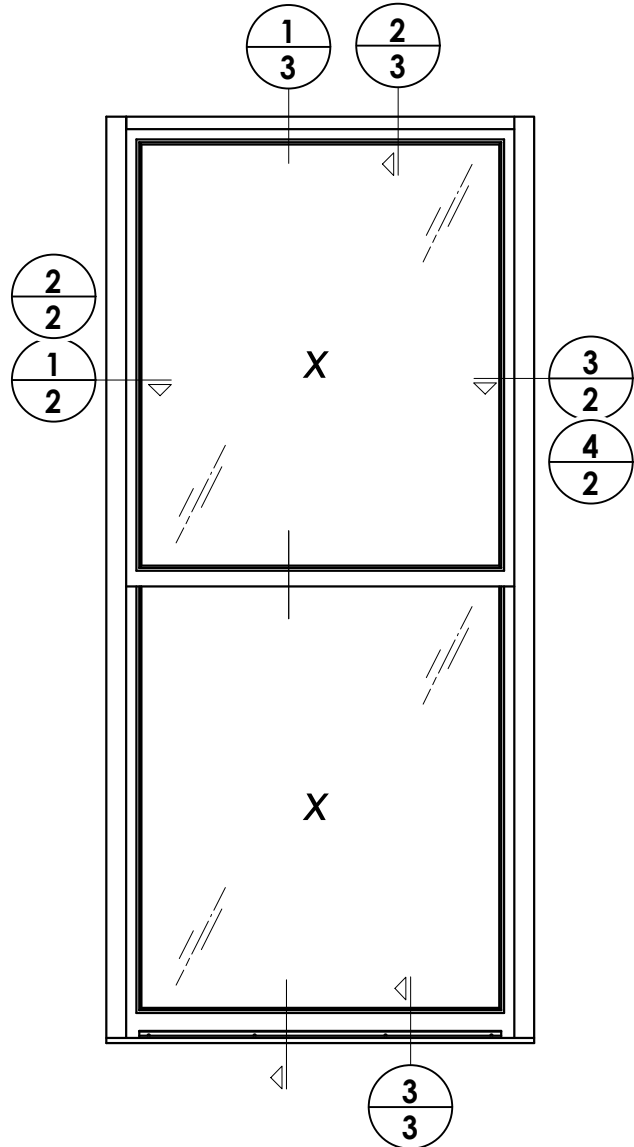
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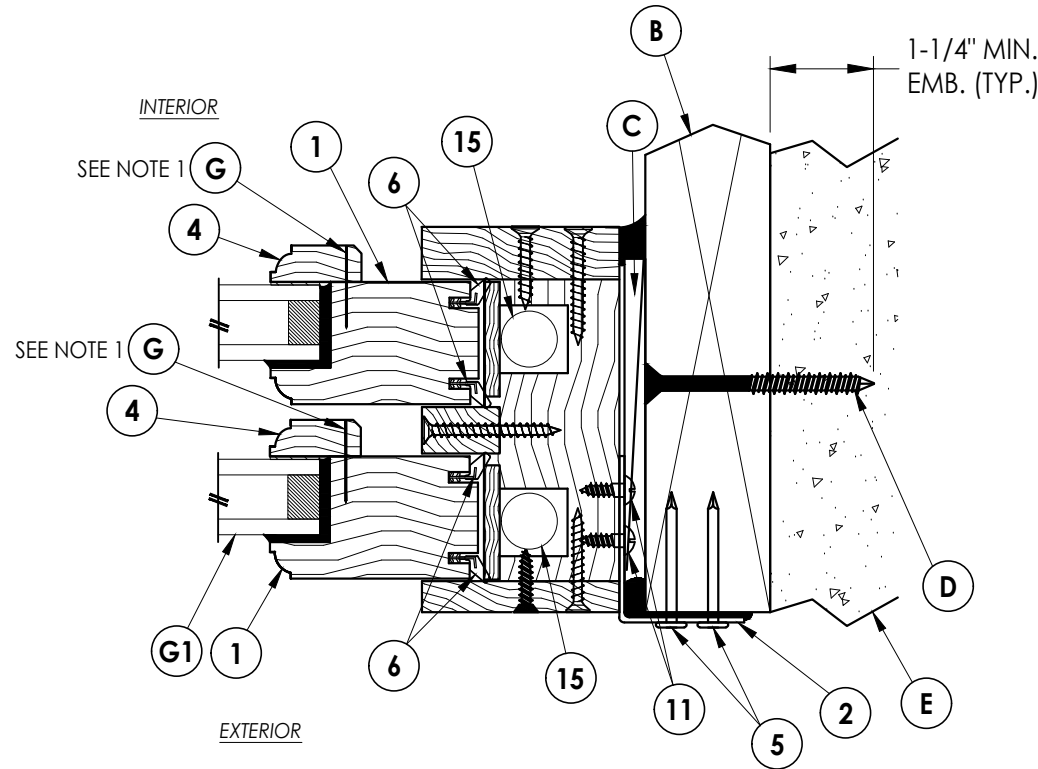
1 **HORIZONTAL CROSS SECTION**
2 1X Buck Construction
(Thru-the-Frame Installation)



2 **HORIZONTAL CROSS SECTION**
2 2X Buck Construction
(Thru-the-Frame Installation)



3 **HORIZONTAL CROSS SECTION**
2 2X Buck Construction
(Anchor Clip Installation)



4 **HORIZONTAL CROSS SECTION**
2 2X Buck Construction
(Anchor Clip Installation)

NOTE:
1. Item #G located 1" from each end
then 10" on center.

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PRODUCT:
MILLWORK ARTISANS
DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
4	9/14/23	UPDATE TO 8TH ED. (2023) FBC	LFS
3	9/29/20	UPDATE TO 7TH ED. (2020) FBC	LFS
2	10/3/17	UPDATE TO 6TH ED. (2017) FBC	JK
1	3/03/15	UPDATE TO 5TH ED. (2014) FBC	JK

DATE: 5/7/14

SCALE: N.T.S.

DWG. BY: JK

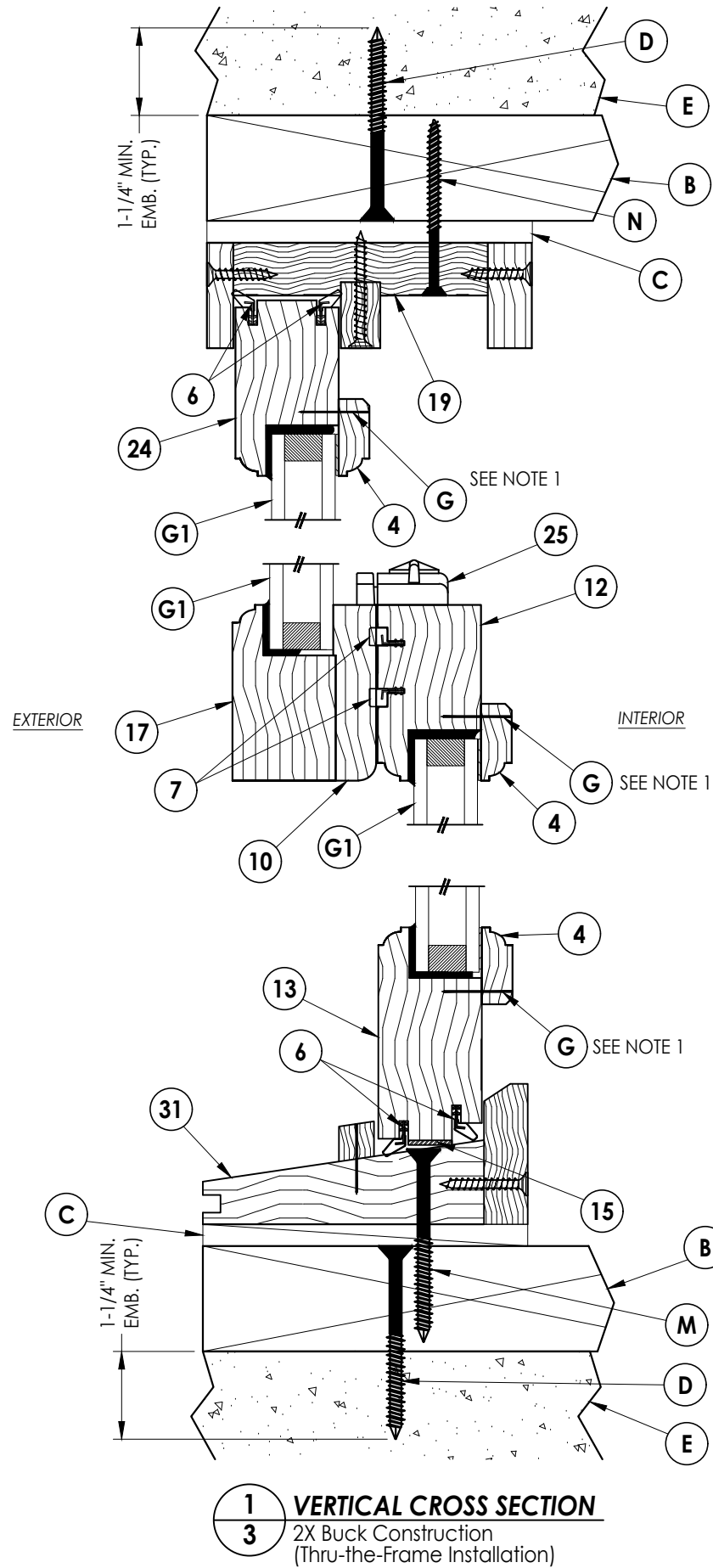
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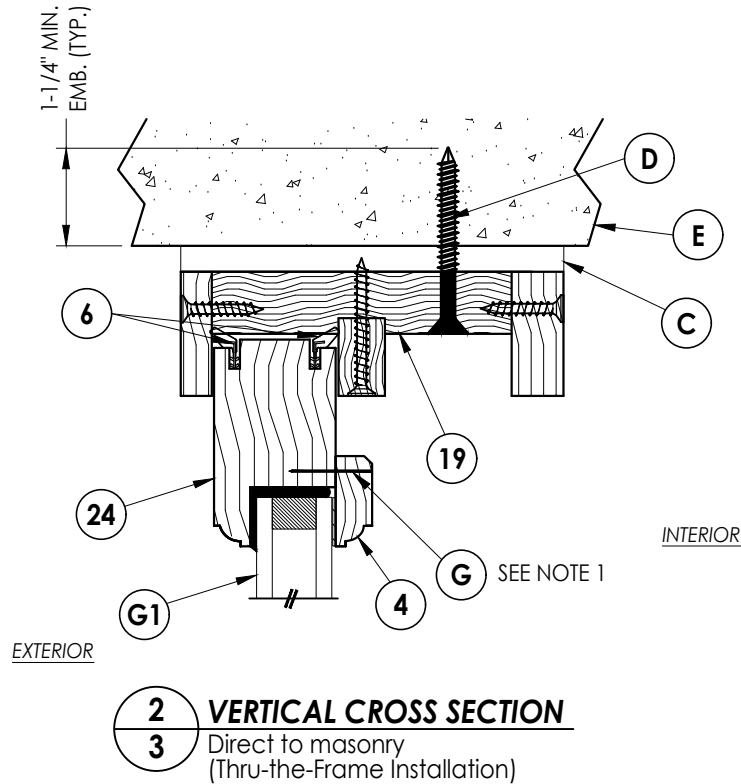
FL-17038.2

SHEET 2 OF 6

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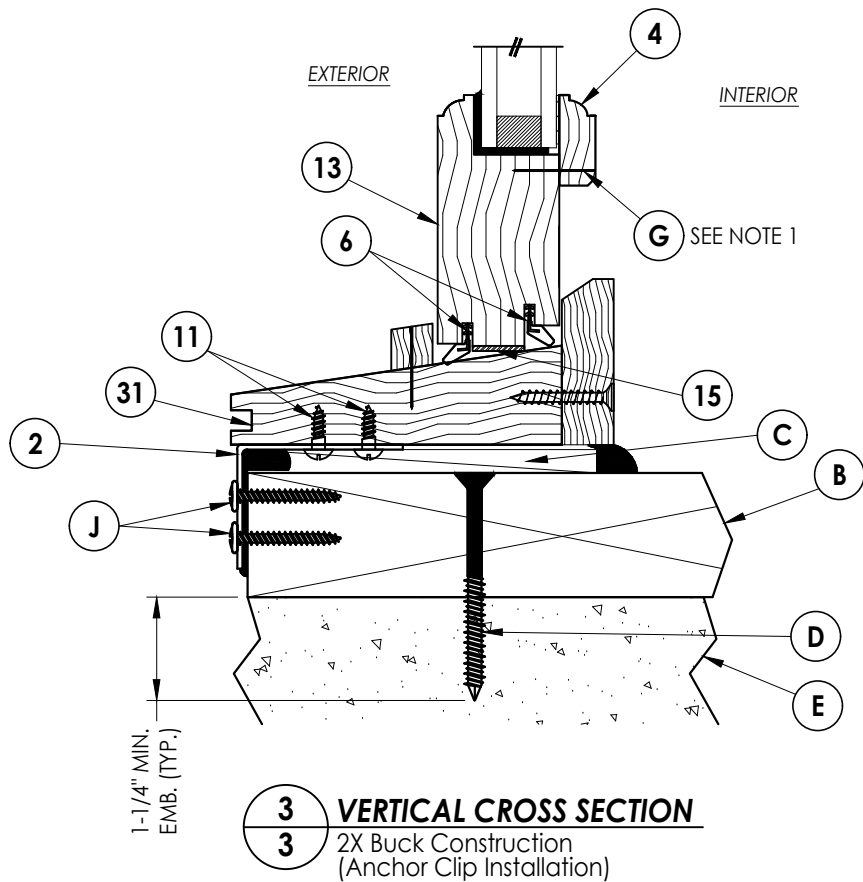


NOTE:
1. Item #G located 1" from each end
then 10" on center.



2 VERTICAL CROSS SECTION

Direct to masonry
(Thru-the-Frame Installation)



3 VERTICAL CROSS SECTION

2X Buck Construction
(Anchor Clip Installation)

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PRODUCT:
MILLWORK ARTISANS
DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
4	9/14/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	9/29/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	10/3/17	UPDATE TO 6TH ED. (2017) FBC JK
1	3/03/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 5/7/14

SCALE: N.T.S.

DWG. BY: JK

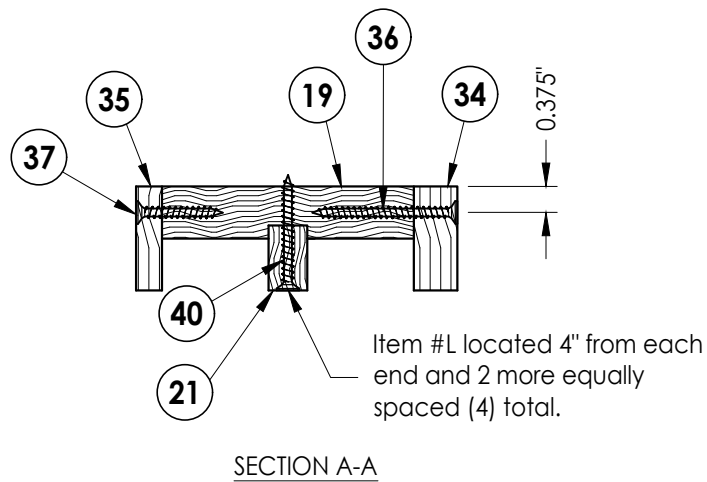
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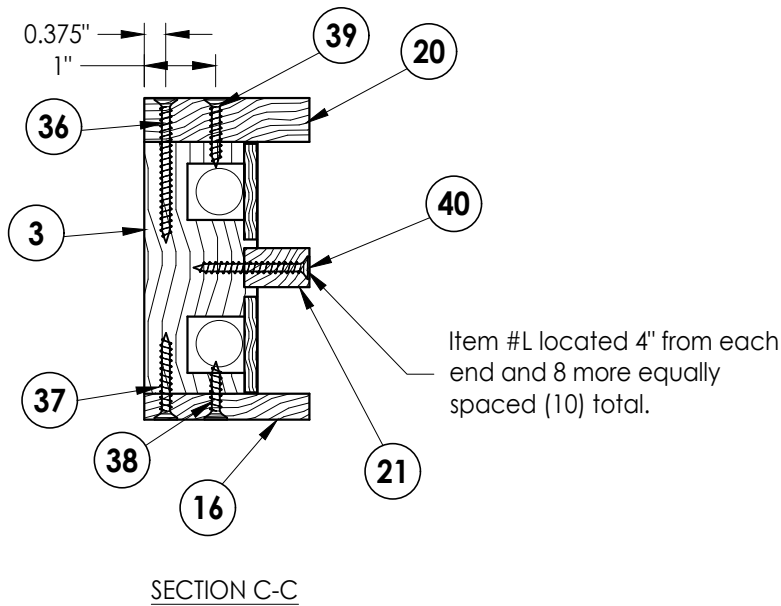
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SHEET 3 OF 6

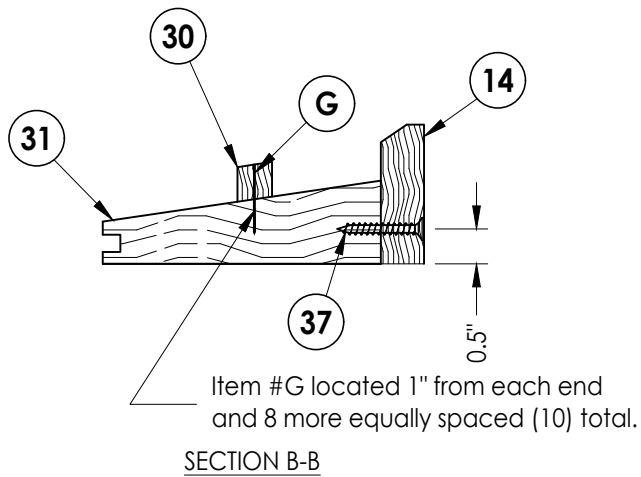
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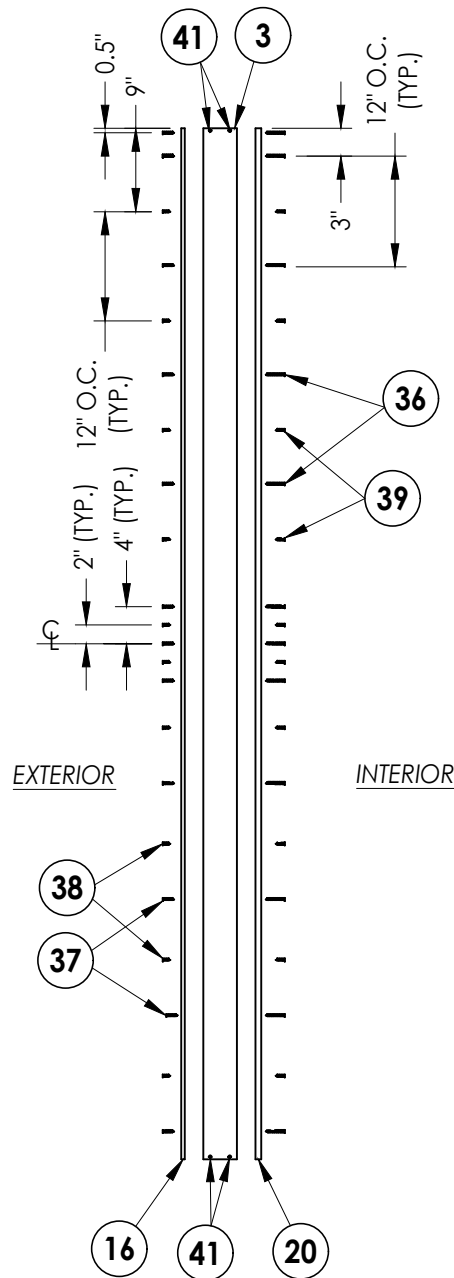
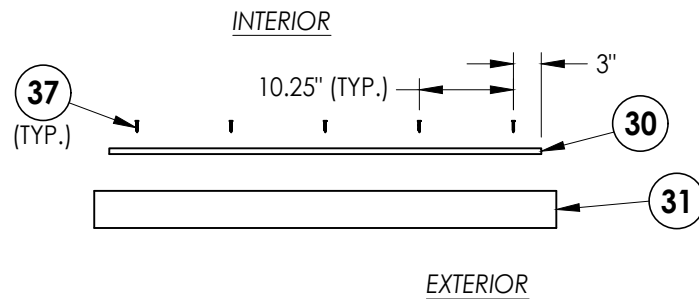
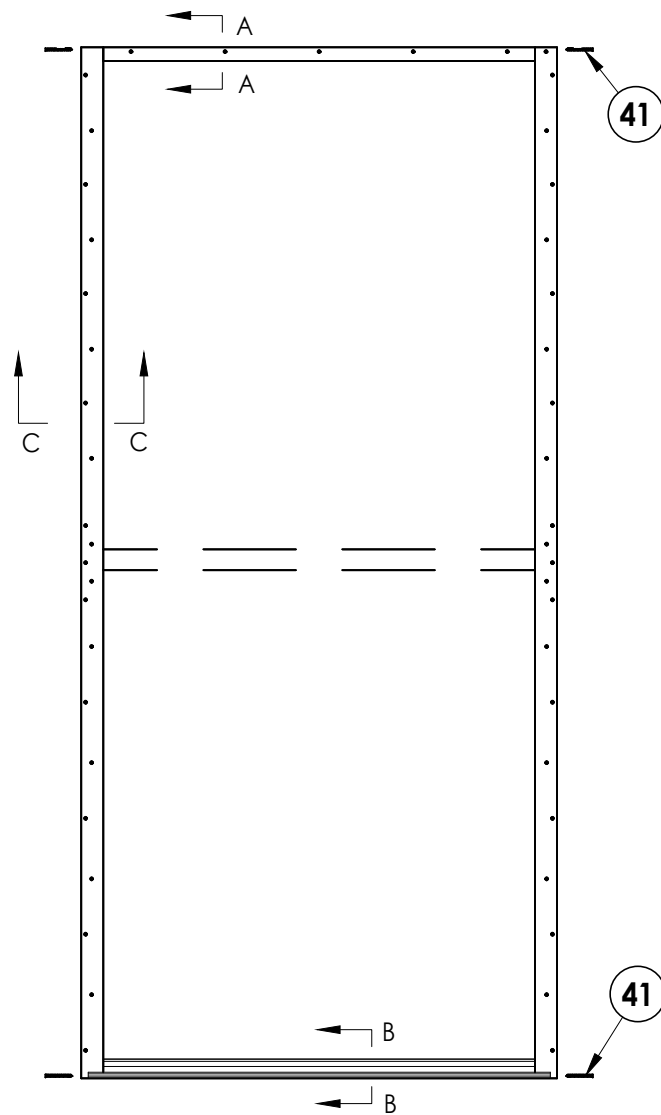
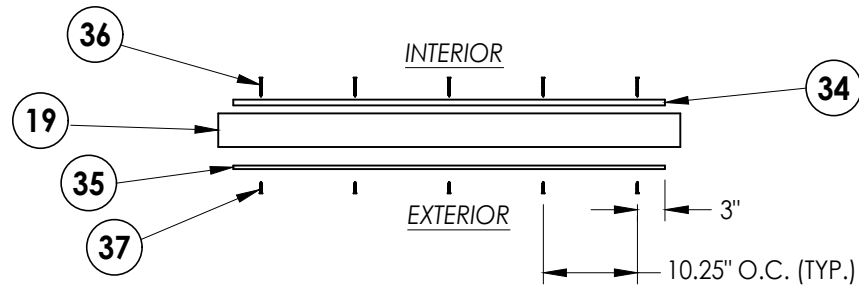
SECTION A-A



SECTION C-C



SECTION B-B



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PRODUCT:
MILLWORK ARTISANS
DOUBLE HUNG WINDOW

NO.	DATE	REVISIONS			
		JK	FBC	LFS	BY
4	9/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	10/3/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
1	3/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 5/7/14

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

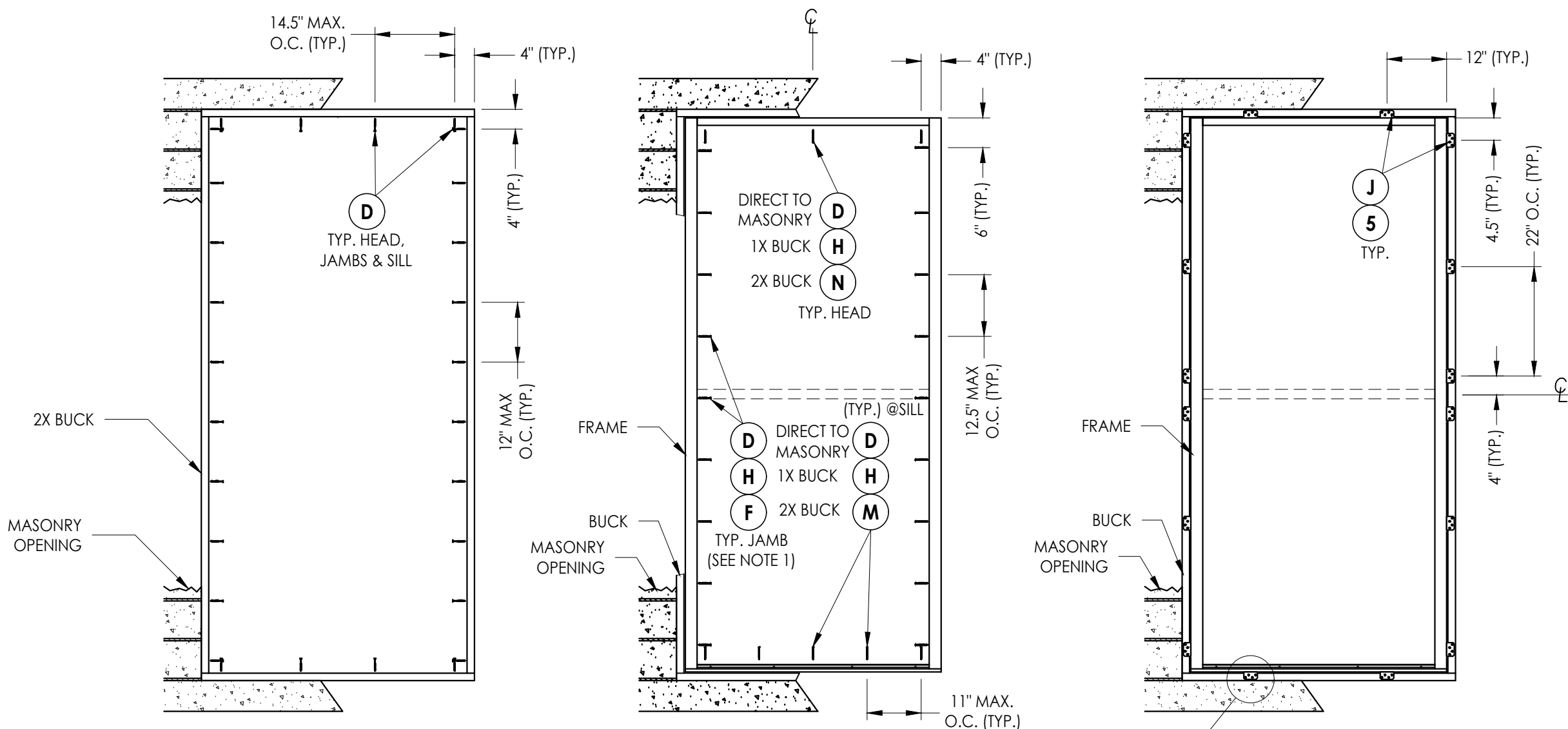
DRAWING NO.:

FL-17038.2

SHEET 4 OF 6

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

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BUCK ANCHORING
Masonry construction

FRAME ANCHORING
(Thru-the-Frame Installation)

FRAME ANCHORING
(Anchor Clip Installation)

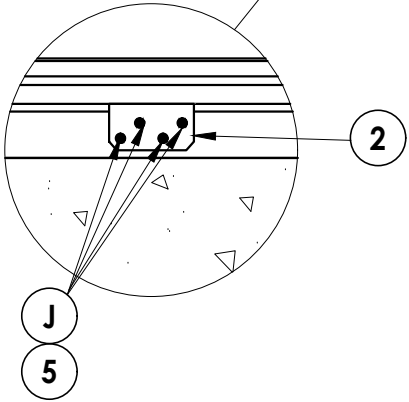
CONCRETE ANCHOR NOTES:

- 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 BUILDEX TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW/NAIL INSTALLATION NOTES:

- Maintain a minimum 3/8" edge distance, 3/4" end distance, & 3/4" o.c. spacing of wood screws/nails to prevent the splitting of wood.

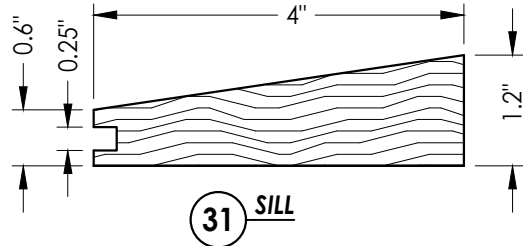


TYP. NOTE:
1. Two (2) anchors required at each location shown at jambs. Stagger concrete anchors to maintain 4" min clearance to adjacent anchor.

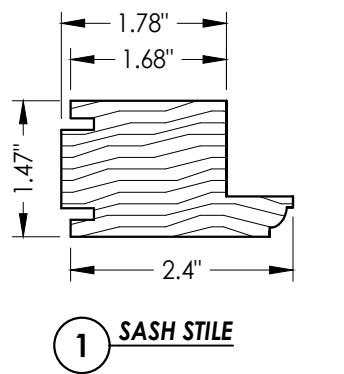
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT:		MILLWORK ARTISANS DOUBLE HUNG WINDOW	
		PART OR ASSEMBLY:		BUCK & FRAME ANCHORING	
Building Consultants, Inc. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		DATE:		5/7/14	
		SCALE:		N.T.S.	
DWG. BY: JK		CHK. BY:		LFS	
		DRAWING NO.:		FL-17038.2	
SHEET		5		OF 6	

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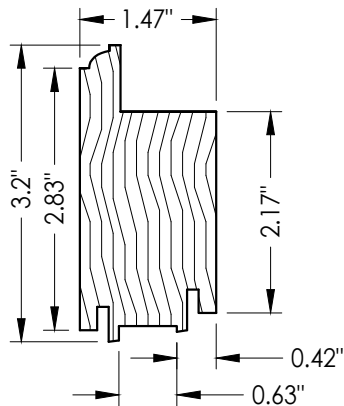
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK G >= 0.42	WOOD
B	2X BUCK G >= 0.42	
C	1/4" MAX. SHIM SPACE	
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/4" PFH WOOD SCREW (1-5/16" MIN. EMBEDMENT)	STEEL
G	23GA X 1" BRAD	STEEL
H	1/4" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
J	#8 X 1-1/2" WAFER HEAD SMS (1-3/8" MIN. EMBEDMENT)	STEEL
M	#10 X 2-3/4" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
N	#10 X 2-1/2" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
1	SASH STILE	WOOD
2	ANCHOR BRACKET (Simpson Strong-Tie A23Z)	STEEL
3	JAMB	WOOD
4	GLAZING BEAD	WOOD
5	#7 X 1-1/2" GALVANIZED NAIL (1-3/8" MIN. EMBEDMENT)	STEEL
6	WEATHERSTRIP QUEZD250 BY SCHLEGEL	FOAM
7	WEATHERSTRIP QUEZD260 BY SCHLEGEL	FOAM
10	MEETING RAIL	WOOD
11	#8 X 3/4" LATH SCREWS	WOOD
12	BOTTOM SASH TOP RAIL	WOOD
13	BOTTOM SASH BOTTOM RAIL	WOOD
14	SILL EXTENDER	WOOD
15	ULTRA-LIFT SPIRAL TUBE BALANCE BY CALDWELL	-
16	EXTERIOR SASH STOP	WOOD
17	TOP SASH BOTTOM RAIL	WOOD
19	FRAME HEADER	WOOD
20	INTERIOR SASH STOP	WOOD
21	PARTING STOP	WOOD
24	TOP SASH TOP RAIL	WOOD
25	GATE HOUSE SASH LOCK, MOD #837773	-
30	BOTTOM RAIL STOP	WOOD
31	SILL	WOOD
34	HEADER INTERIOR SASH STOP	WOOD
35	HEADER EXTERIOR SASH STOP	WOOD
36	#8 X 2" PFH WOOD SCREW	STEEL
37	#8 X 1-1/4" PFH WOOD SCREW	STEEL
38	#8 X 3/4" PFH WOOD SCREW	STEEL
39	#8 X 1" PFH WOOD SCREW	STEEL
40	#8 X 1-1/2" PFH WOOD SCREW	STEEL
41	#8 X 2-1/2" PFH WOOD SCREW	STEEL



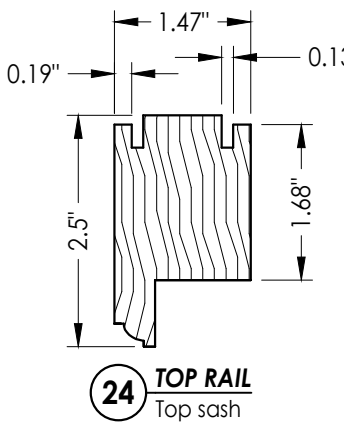
31 SILL



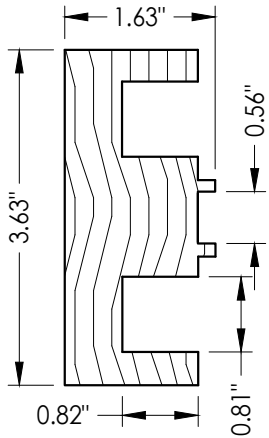
1 SASH STILE



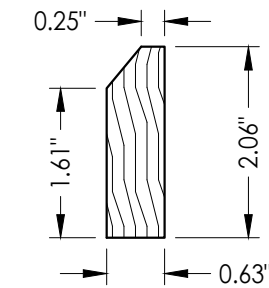
13 BOTTOM RAIL
Bottom sash



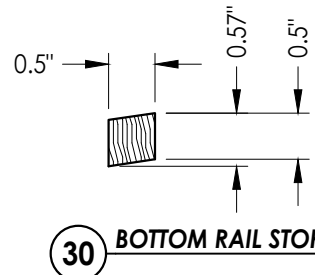
24 TOP RAIL
Top sash



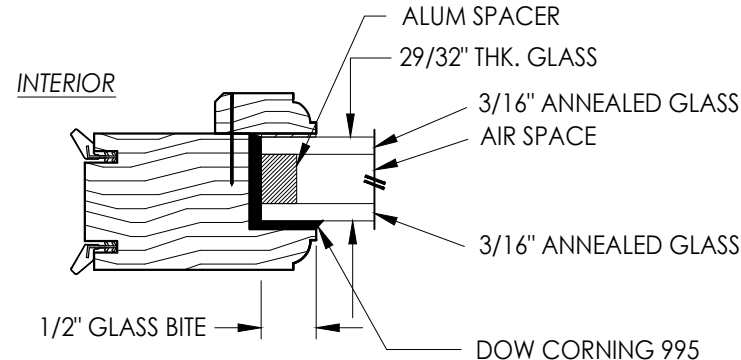
3 JAMB



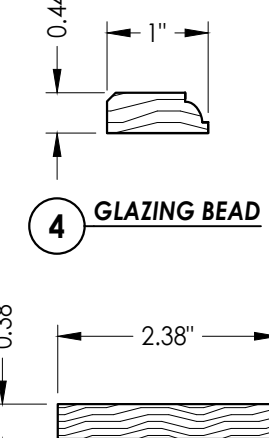
14 SILL EXTENDER



30 BOTTOM RAIL STOP



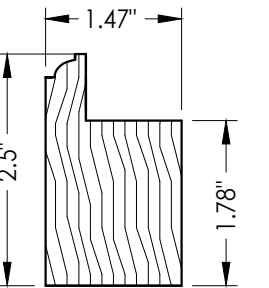
G1 GLAZING DETAIL



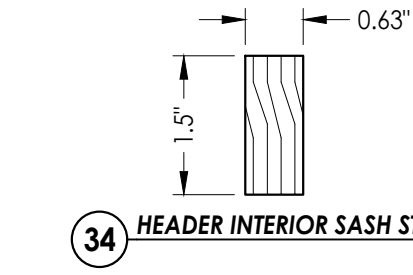
4 GLAZING BEAD



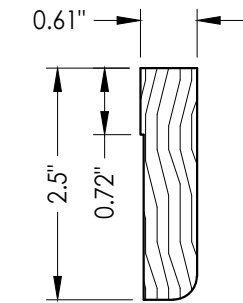
16 JAMB EXTERIOR SASH STOP



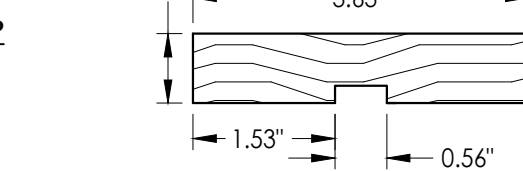
17 BOTTOM RAIL
Top sash



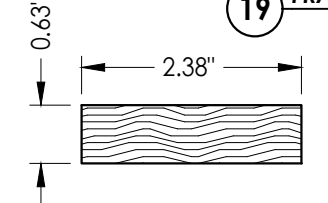
34 HEADER INTERIOR SASH STOP



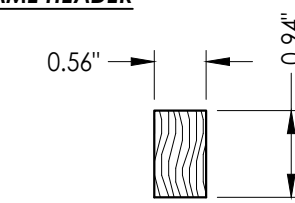
10 MEETING RAIL



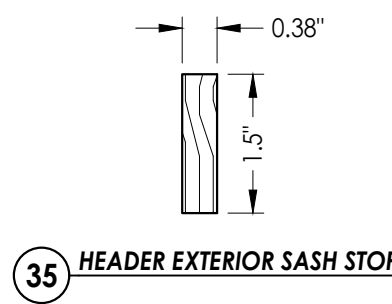
19 FRAME HEADER



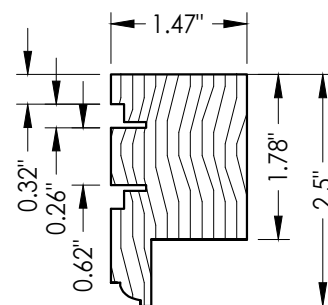
20 JAMB INTERIOR SASH STOP



21 PARTING STOP



35 HEADER EXTERIOR SASH STOP



12 TOP RAIL
Bottom sash

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PRODUCT:
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DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
BILL OF MATERIALS, GLAZING
DETAIL & COMPONENTS

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CHK. BY: LFS

DRAWING NO.:

FL-17038.2

SHEET 6 OF 6