

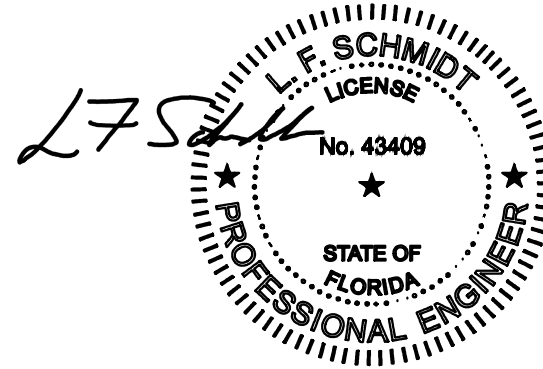
**3379 EAST HWY. 46
REGISTER, GEORGIA 30452**

SERIES 580
DOUBLE HUNG WINDOW
"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 complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction. 2X stud framing to be designed by the Engineer or Architect of Record based upon the applicable wind load design criteria.
5. 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 elevation, design pressures, & general notes
2	Horizontal cross sections - masonry construction
3	Vertical cross sections - masonry construction
4	Horizontal cross sections - stud construction
5	Vertical cross sections - stud construction
6	Buck & frame anchoring
7	Panel details
8	Components
9	Bill of materials & glazing detail

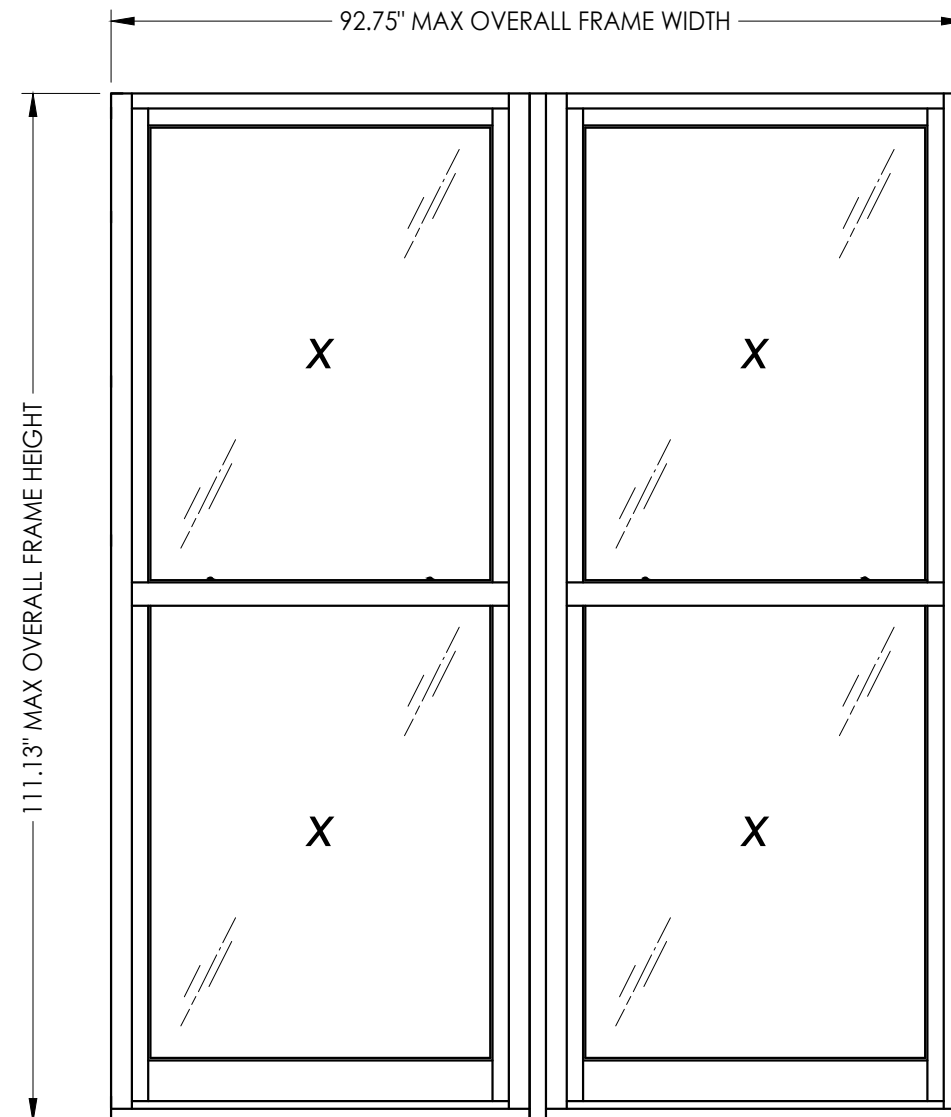


Digitally signed by Lyndon F Schmidt
Date: 2023.10.11 09:39:56 -04'00'

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



OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
92.75" x 111.13"	37.0" x 49.13"	G1	+65.0	-70.0
92.75" x 98.0"	37.0" x 42.31"	G2	+60.0	-65.0

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

RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33486
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: BRANNEN MILLWORKS
DOUBLE HUNG WINDOW

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

6	9/13/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING		LFS
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK
1	1/26/12	UPDATE TO 2010 FBC		KV
NO.	DATE			BY
REVISIONS				

DATE: 10/2/08

SCALE: N.T.S.

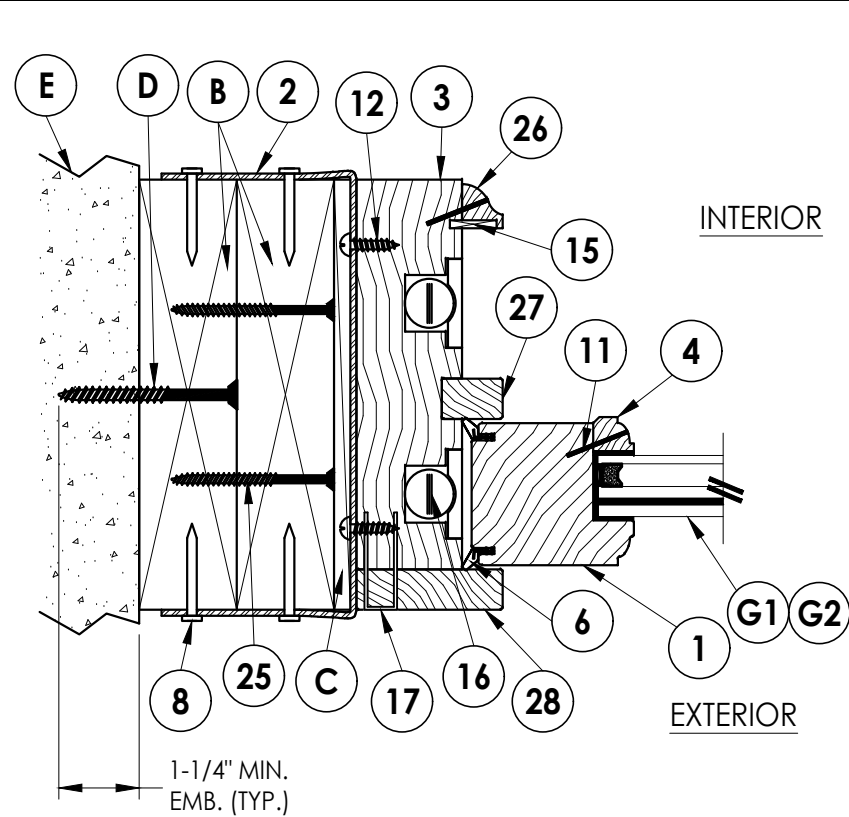
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CHK. BY: LFS

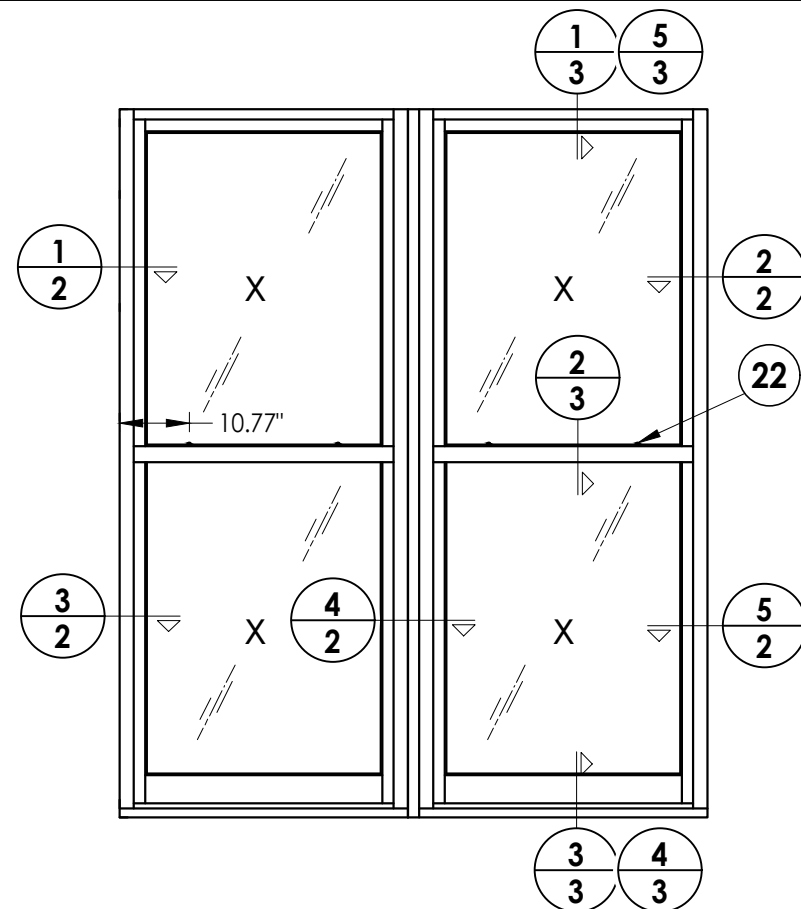
DRAWING NO.:

FL-11474.2

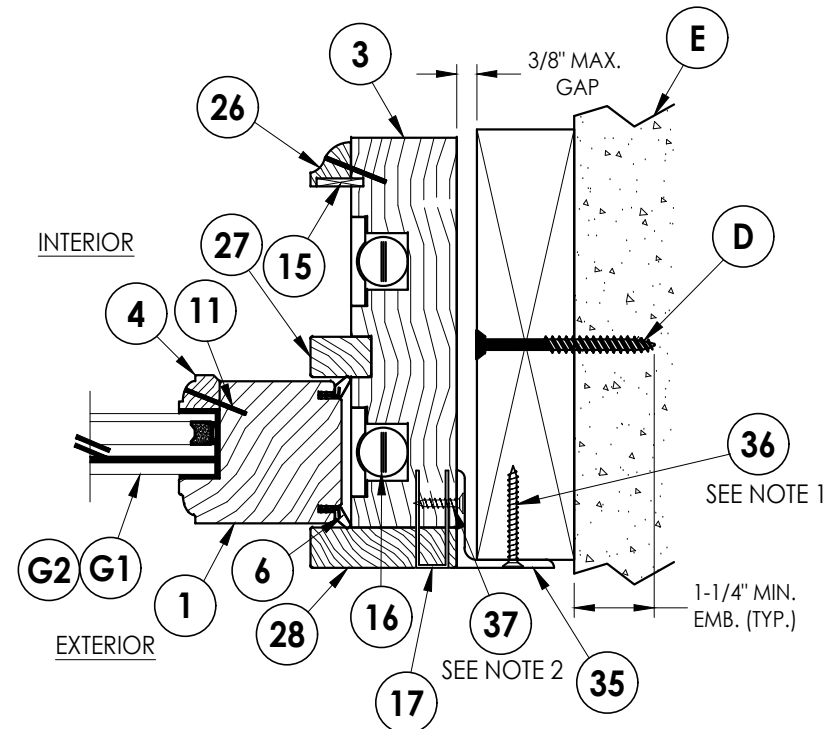
SHEET 1 OF 9



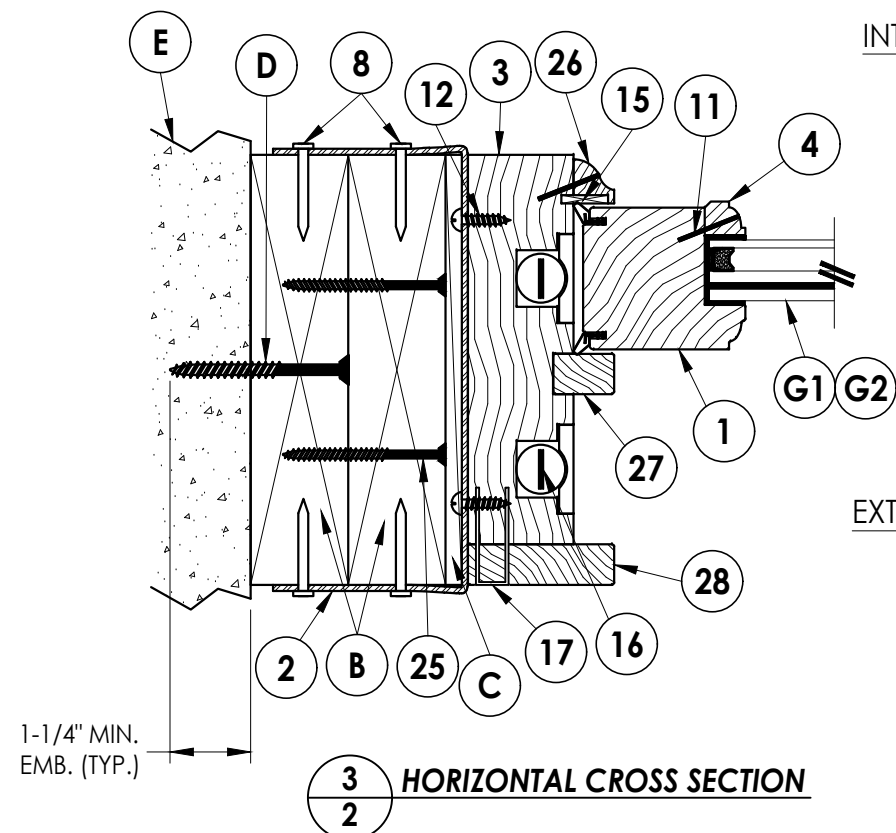
1 2 HORIZONTAL CROSS SECTION



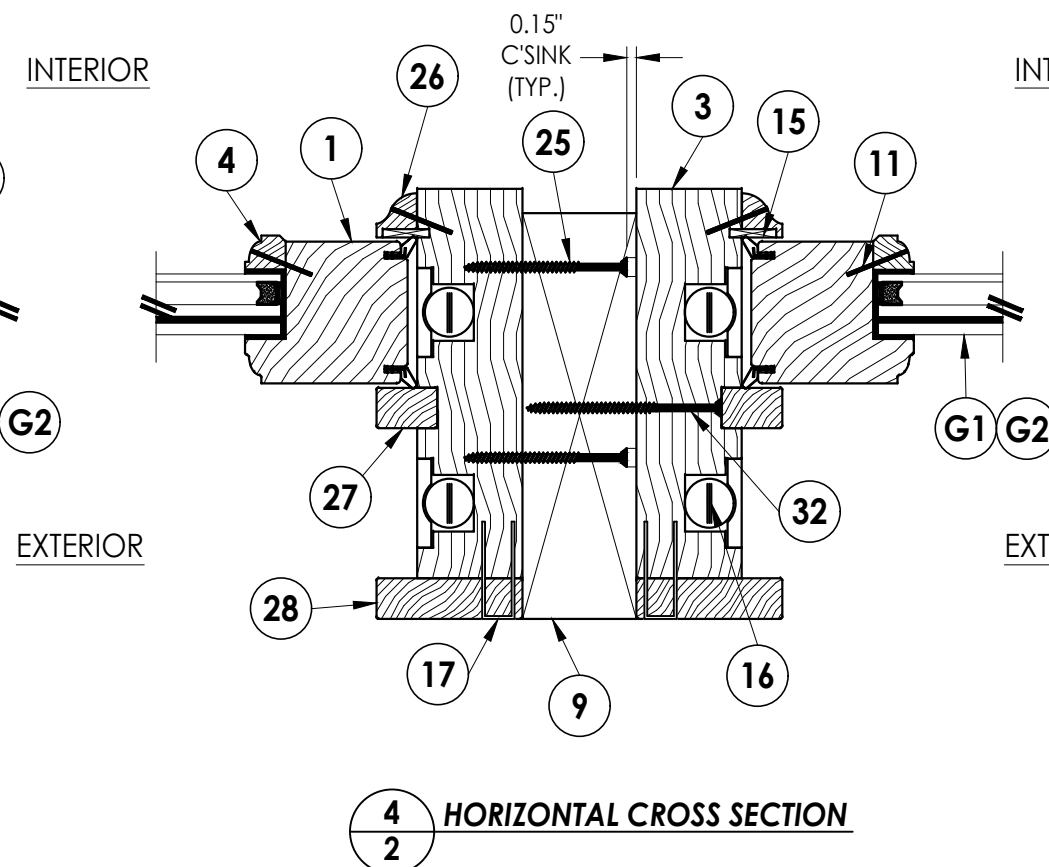
2 HORIZONTAL CROSS SECTION
 2 Shown w/ Alternate Flange Anchor



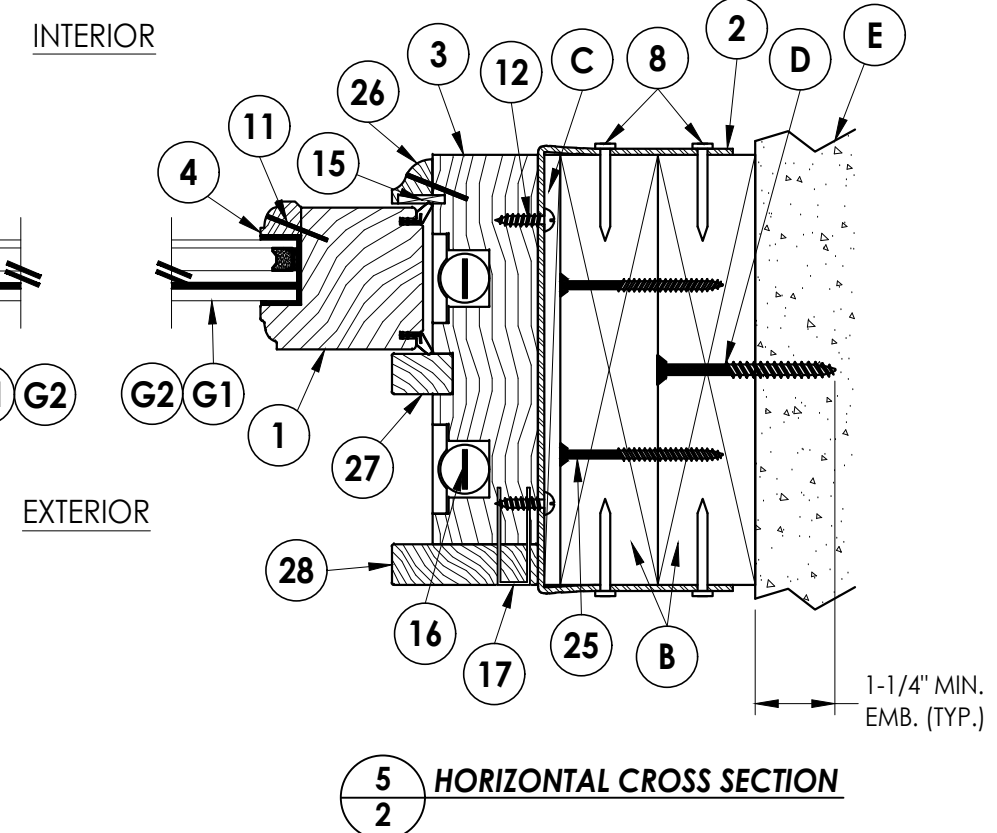
- NOTES:
1. Item 36: See Alternate Frame Anchoring (Sheet 6) for screw spacing.
 2. Item 37: Located 3" & 5" from each end & 10" max. o.c. spacing.



3 2 HORIZONTAL CROSS SECTION



4 HORIZONTAL CROSS SECTION



5 2 HORIZONTAL CROSS SECTION

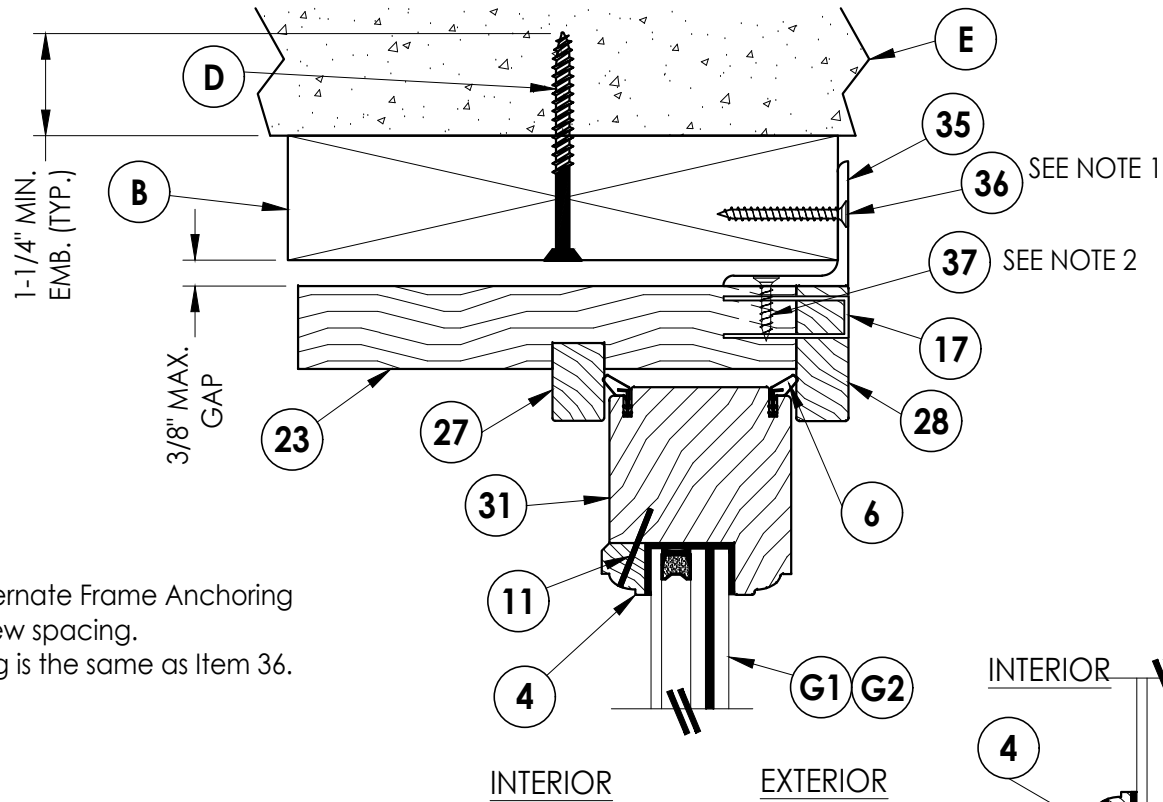
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4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING		LFS
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK
1	1/26/12	UPDATE TO 2010 FBC		KV
NO.	DATE			
		REVISIONS		

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P.E. No. 43409

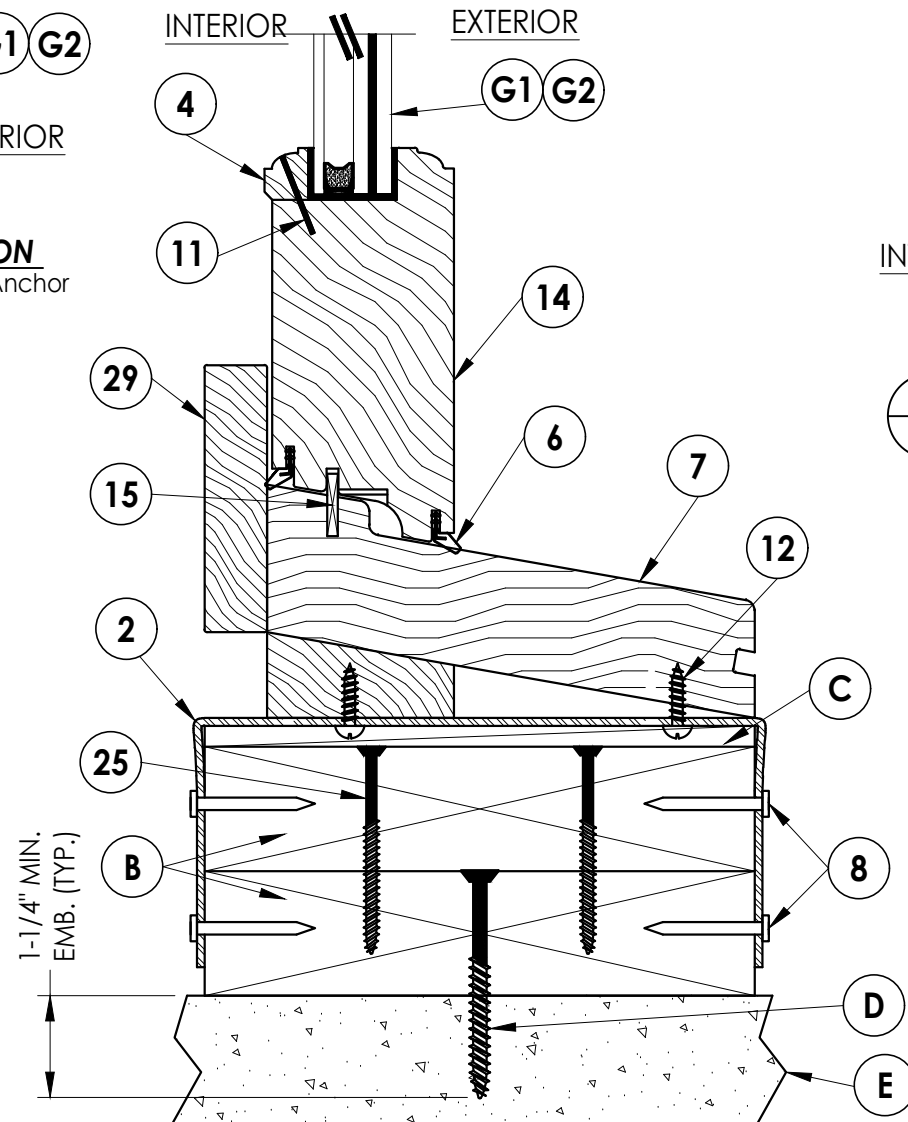
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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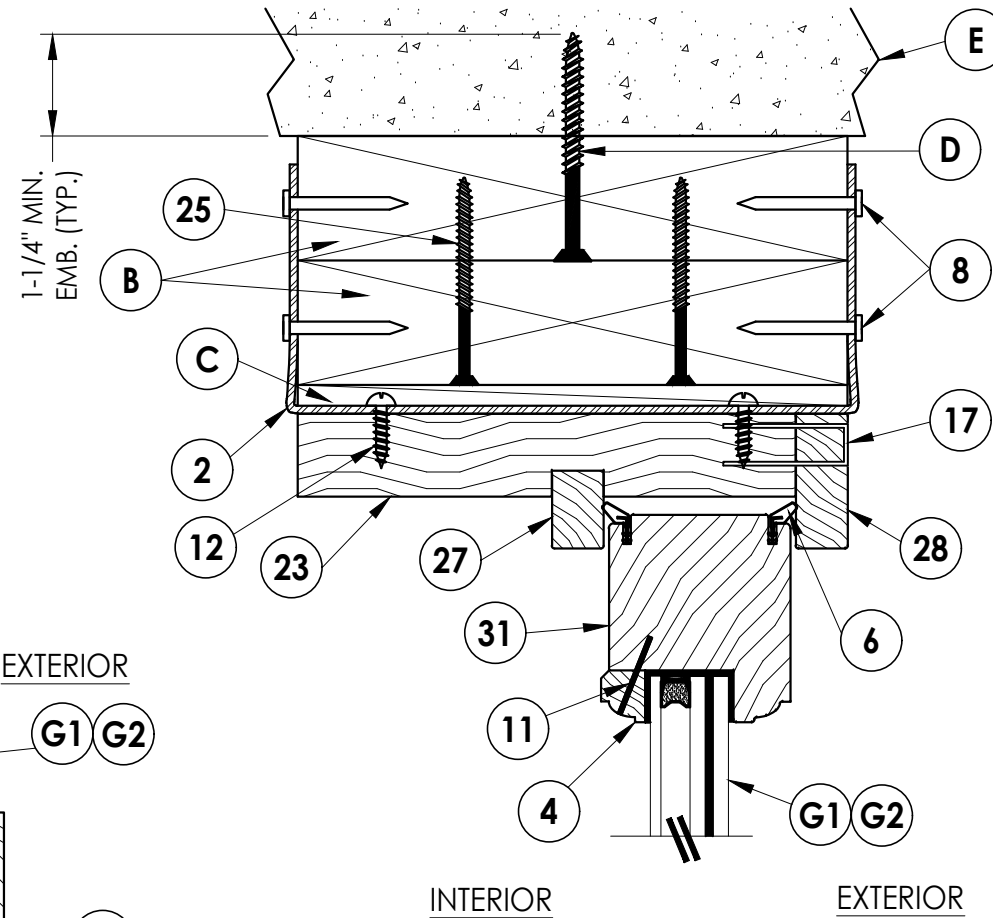
- NOTES:
- Item 36: See Alternate Frame Anchoring (Sheet 6) for screw spacing.
 - Item 37: Spacing is the same as Item 36.



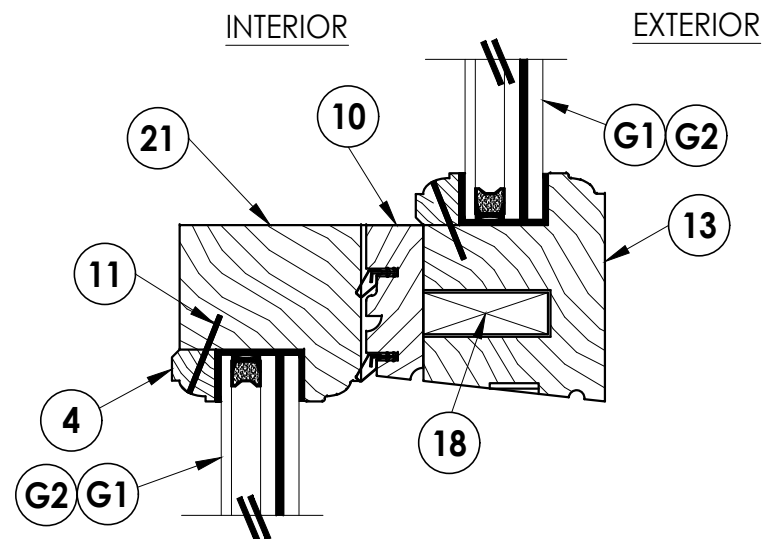
4
3 VERTICAL CROSS SECTION
Shown w/ Alternate Flange Anchor



3
3 VERTICAL CROSS SECTION



1
3 VERTICAL CROSS SECTION



2
3 VERTICAL CROSS SECTION

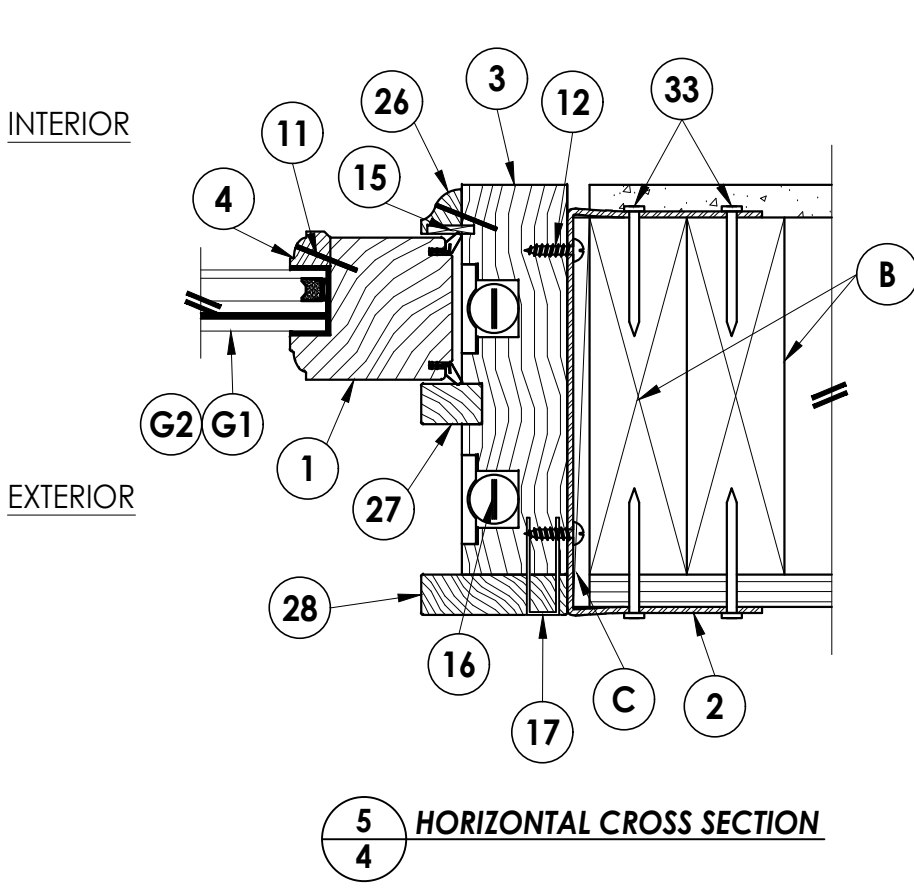
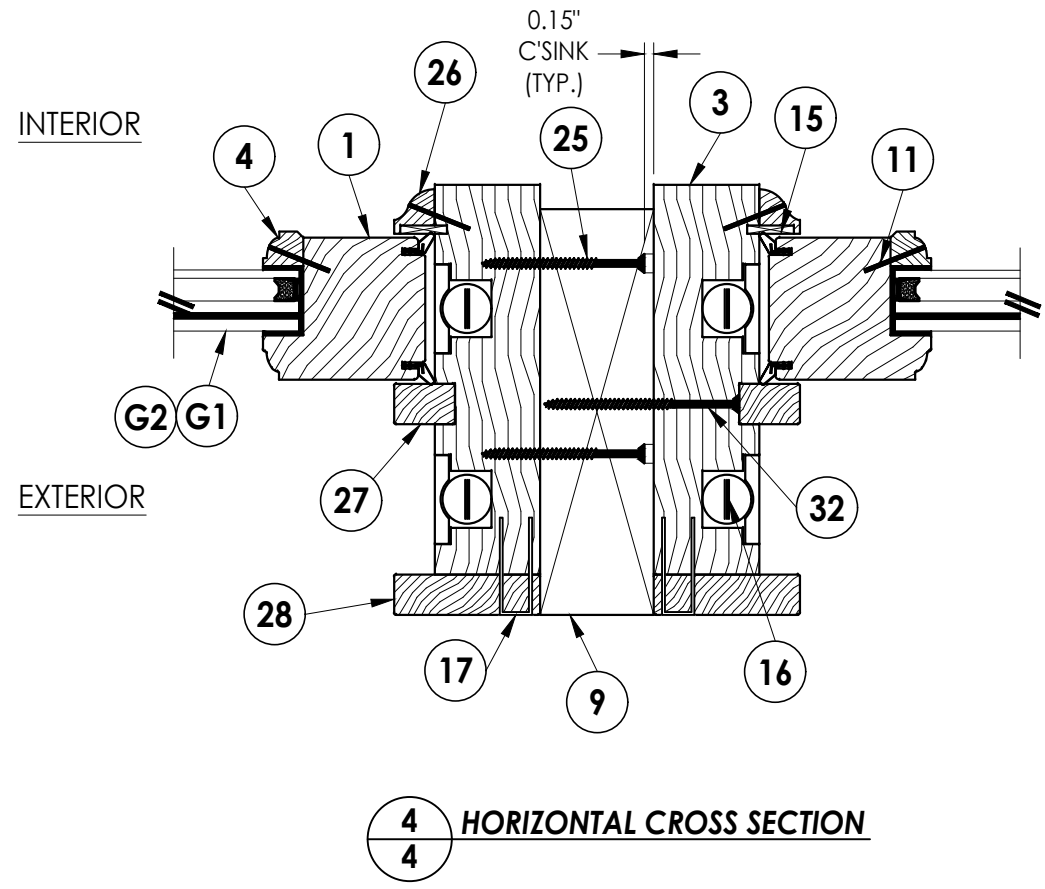
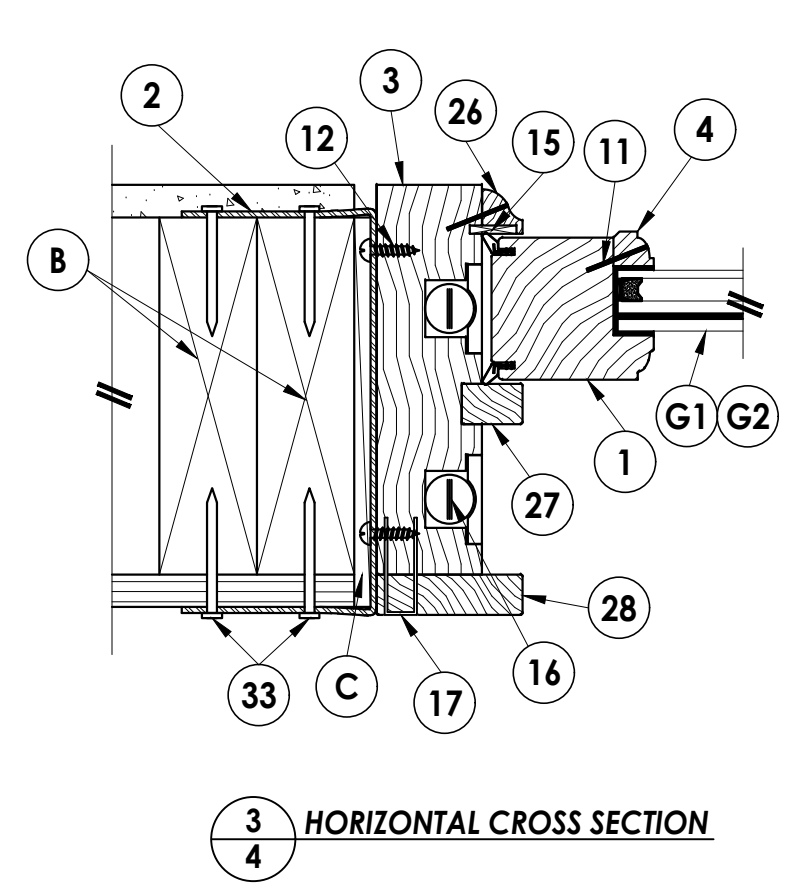
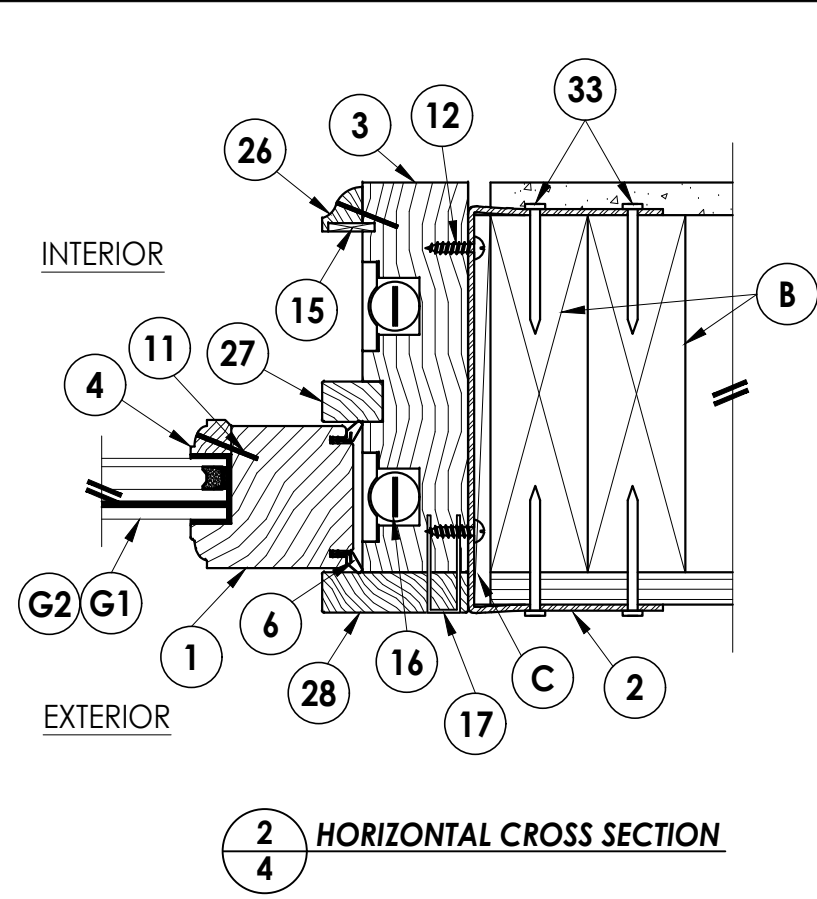
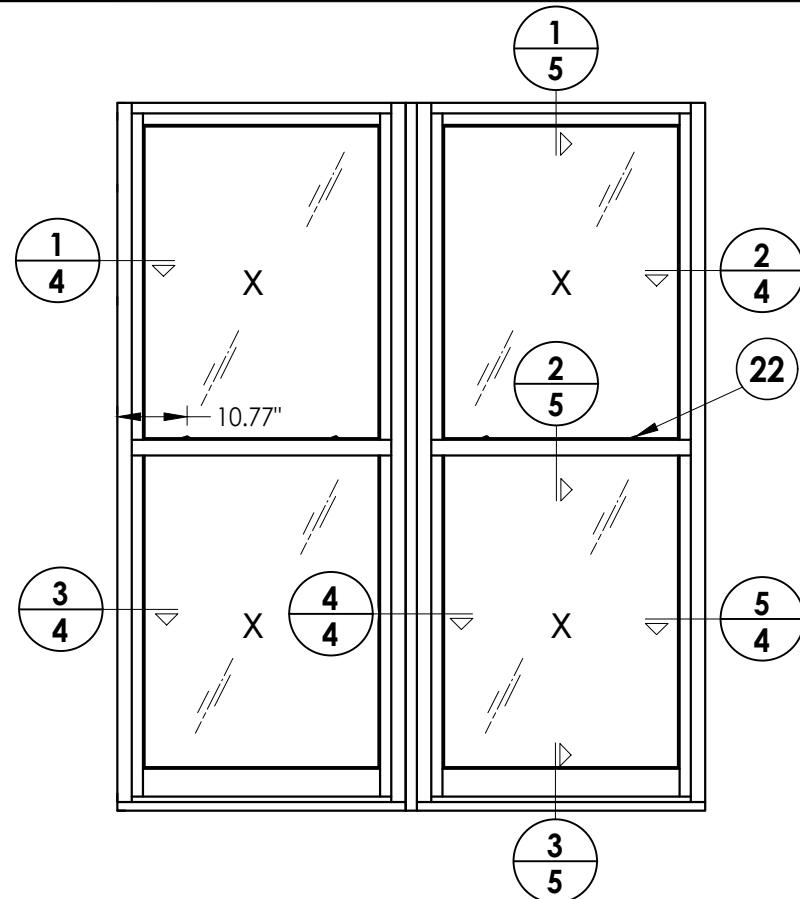
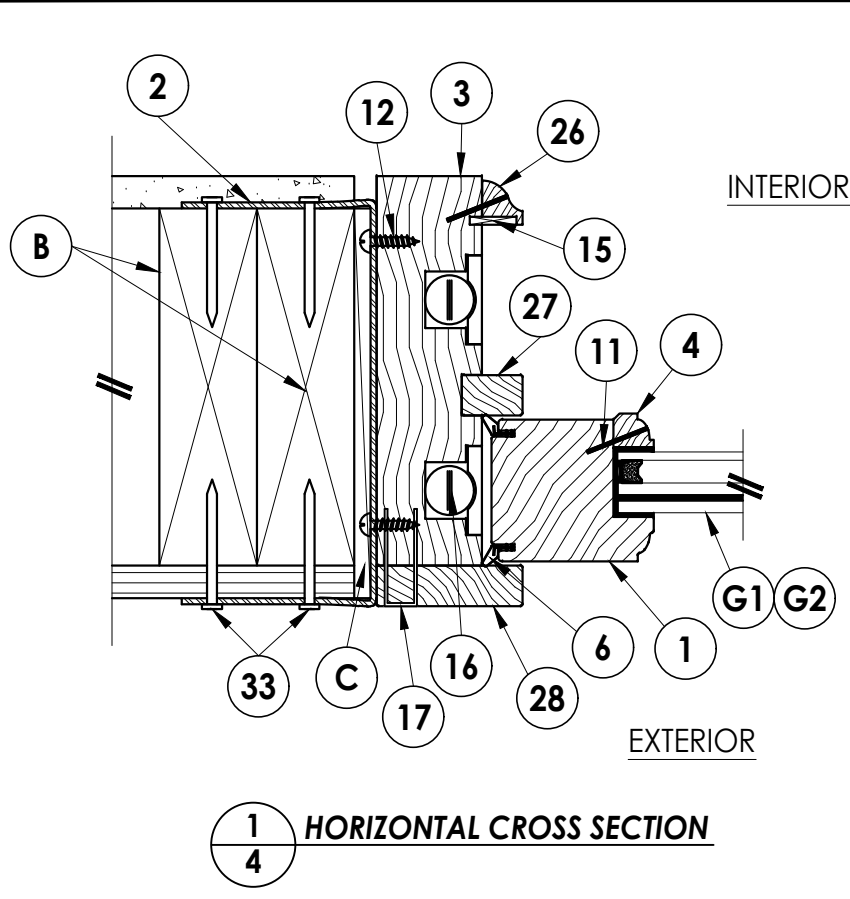
Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:
BRANNEN MILLWORKS
DOUBLE HUNG WINDOW

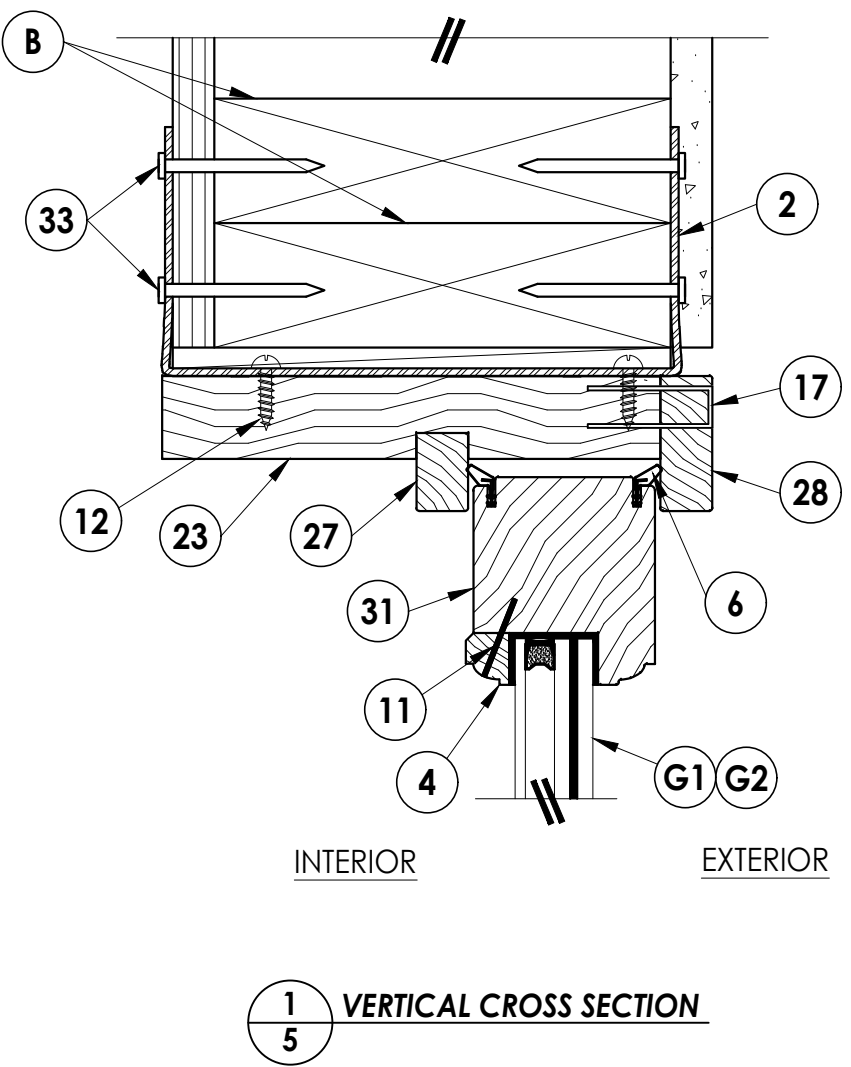
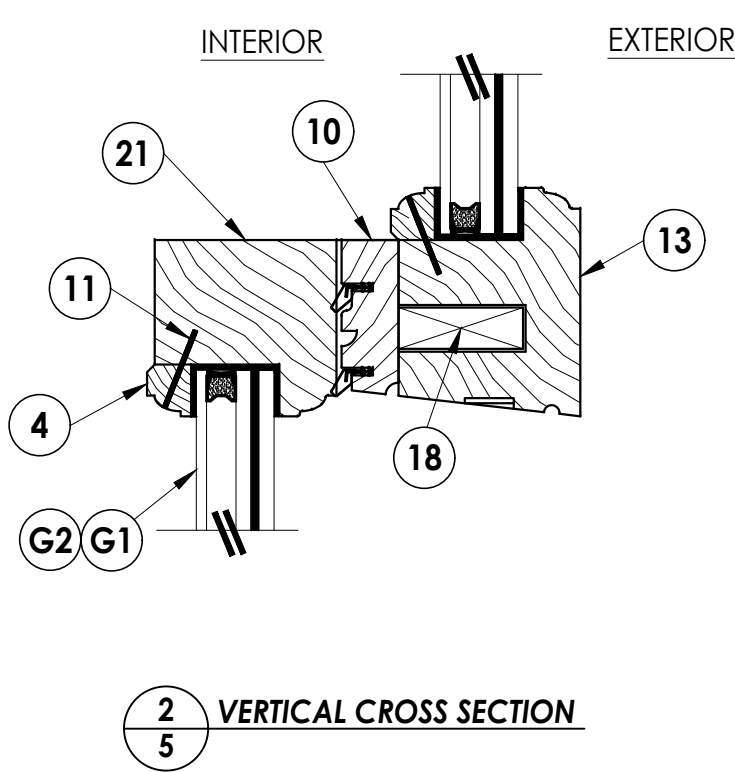
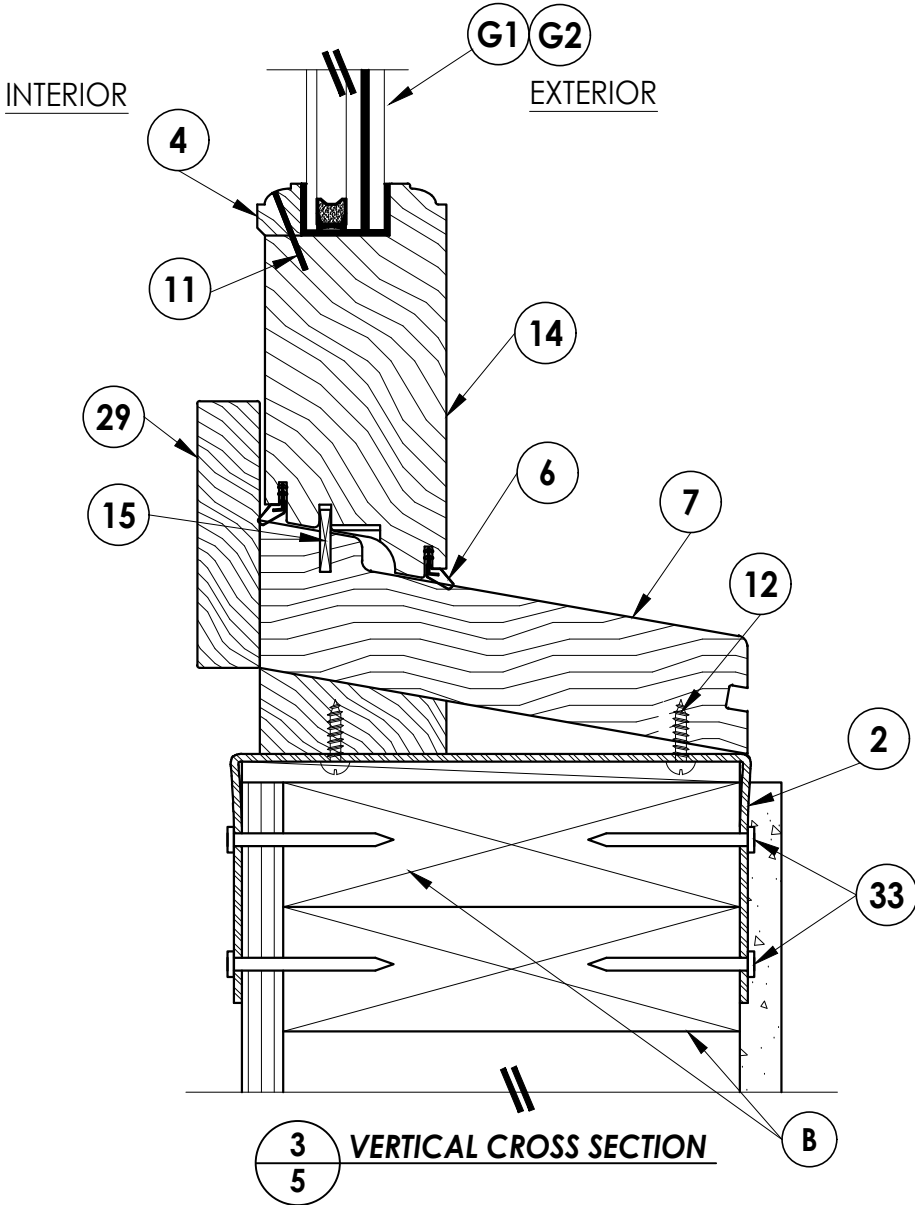
PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS
MASONRY CONSTRUCTION

NO.	DATE	REVISIONS					
		BY	KV	JK	LFS	FBC	LFS
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5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC				
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC				
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING					
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC				
1	1/26/12	UPDATE TO 2010 FBC					
DATE: 10/2/08							
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-11474.2							
SHEET 3 OF 9							



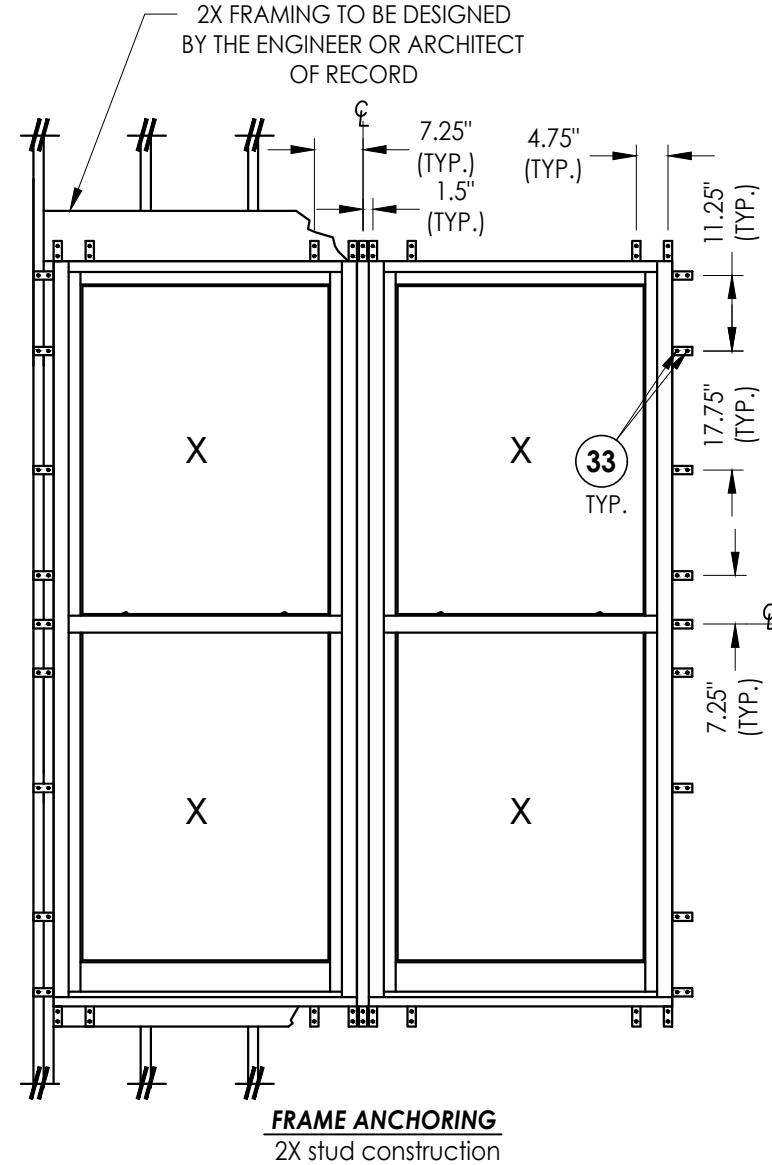
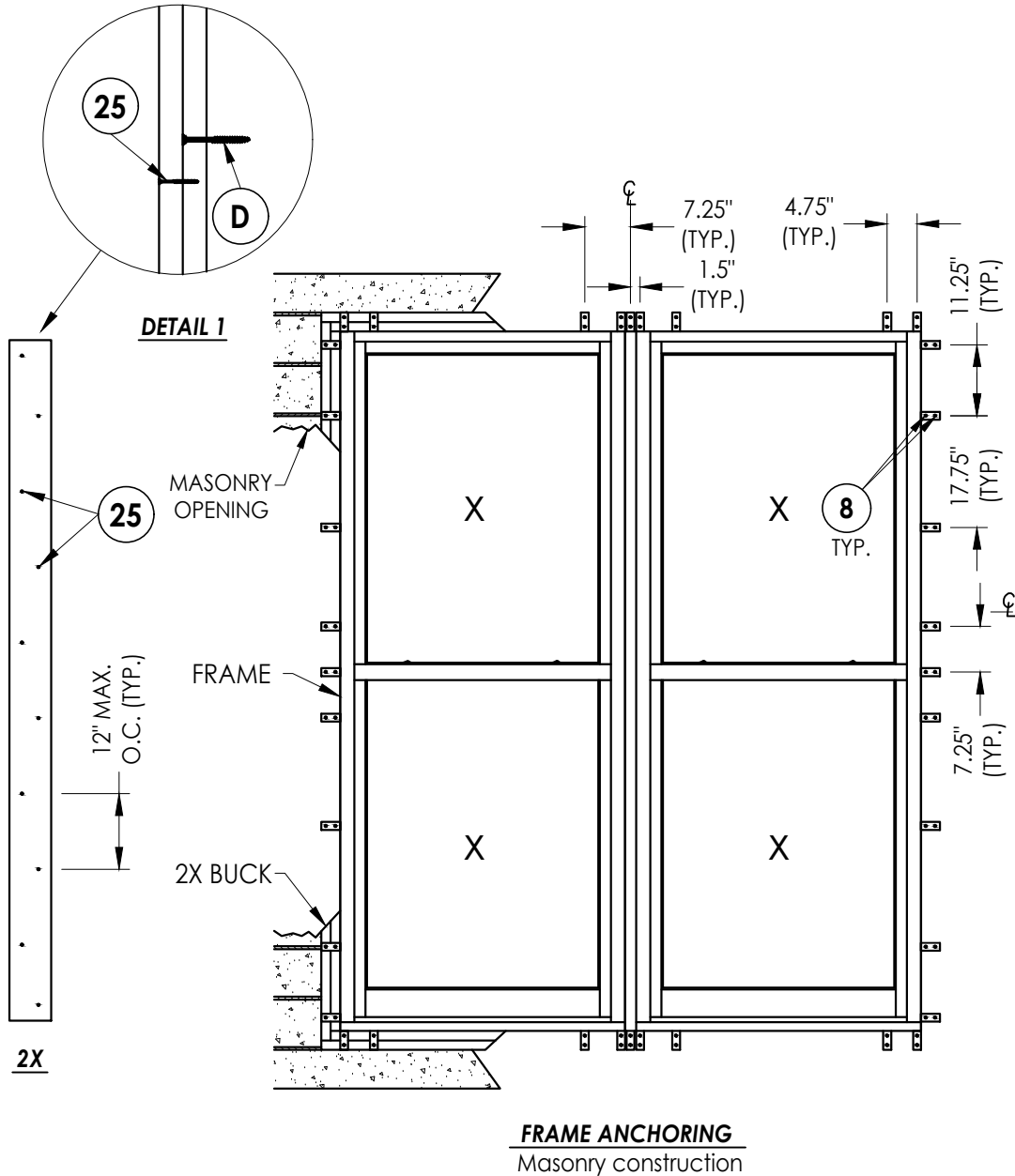
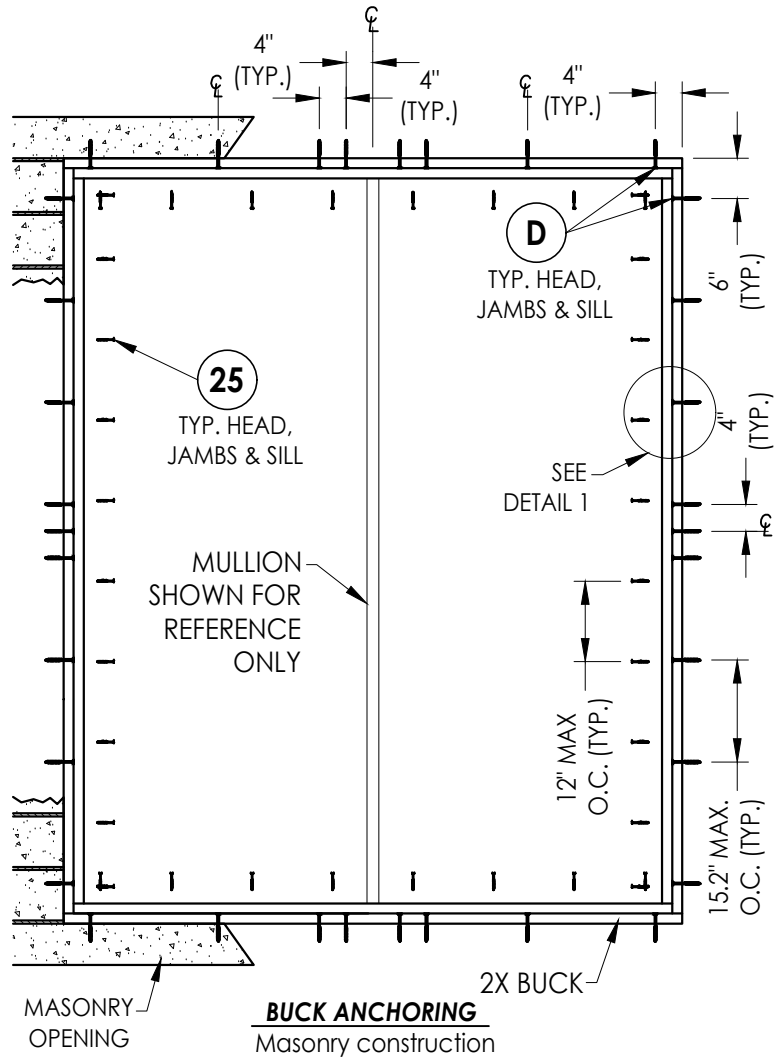
Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409	
PRODUCT:		BRANNEN MILLWORKS		DOUBLE HUNG WINDOW	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS		STUD CONSTRUCTION	
DATE:		10/2/08		SCALE:	
DWG. BY:		AL		CHK. BY:	
DRAWING NO.:		FL-11474.2		SHEET	
9/13/23		UPDATE TO 8TH ED. (2023) FBC		LFS	
9/16/20		UPDATE TO 7TH ED. (2020) FBC		LFS	
7/10/17		UPDATE TO 6TH ED. (2017) FBC		LFS	
02/15/16		ADD ALTERNATE FLANGE ANCHORING		LFS	
08/03/15		UPDATE TO 5TH ED. (2014) FBC		JK	
1/26/12		UPDATE TO 2010 FBC		KV	
NO.		DATE		BY	
				REVISIONS	

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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 No. 9813	
PRODUCT: BRANNEN MILLWORKS DOUBLE HUNG WINDOW		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS STUD CONSTRUCTION	
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5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING	LFS
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC
1	1/26/12	UPDATE TO 2010 FBC	KV
NO. DATE		REVISIONS	
DATE: 10/2/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-11474.2			
SHEET 5 OF 9			

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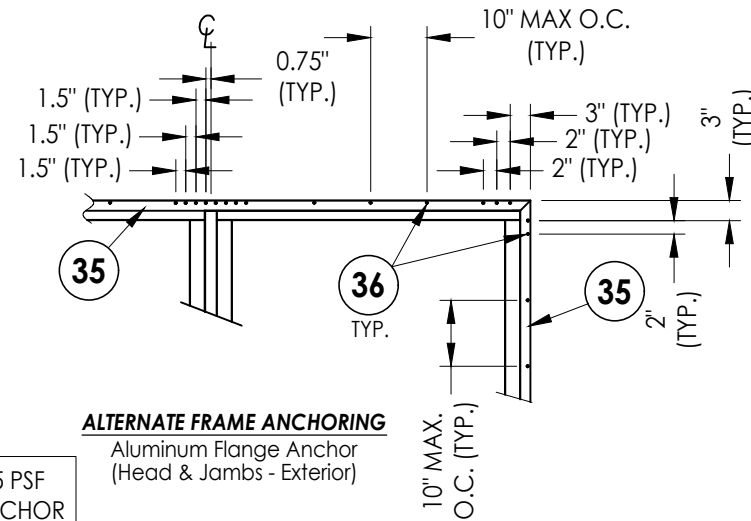
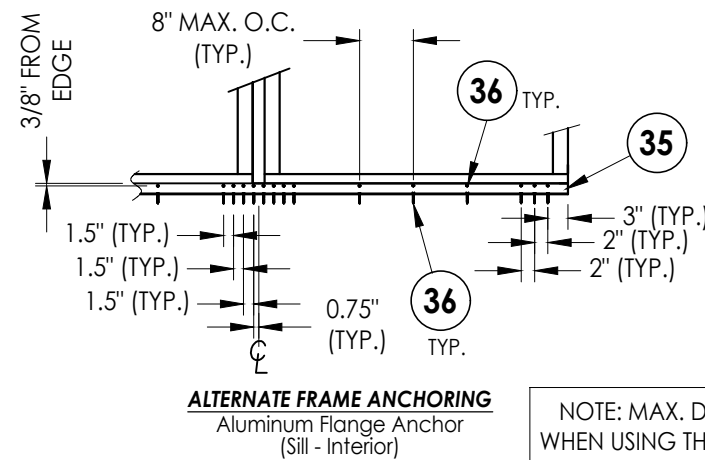
CONCRETE ANCHOR NOTES:

- 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"	3"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	2-1/2"	4"

WOOD SCREW/NAIL INSTALLATION NOTES:

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



NOTE: MAX. DESIGN PRESSURE = +60/-65 PSF
WHEN USING THE ALUMINIUM FLANGE ANCHOR

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

PRODUCT:
BRANNEN MILLWORKS
DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

NO.	DATE	REVISIONS
6	9/13/23	UPDATE TO 8TH ED. (2023) FBC
5	9/16/20	UPDATE TO 7TH ED. (2020) FBC
4	7/10/17	UPDATE TO 6TH ED. (2017) FBC
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING
2	08/03/15	UPDATE TO 5TH ED. (2014) FBC
1	1/26/12	UPDATE TO 2010 FBC

DATE: 10/2/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

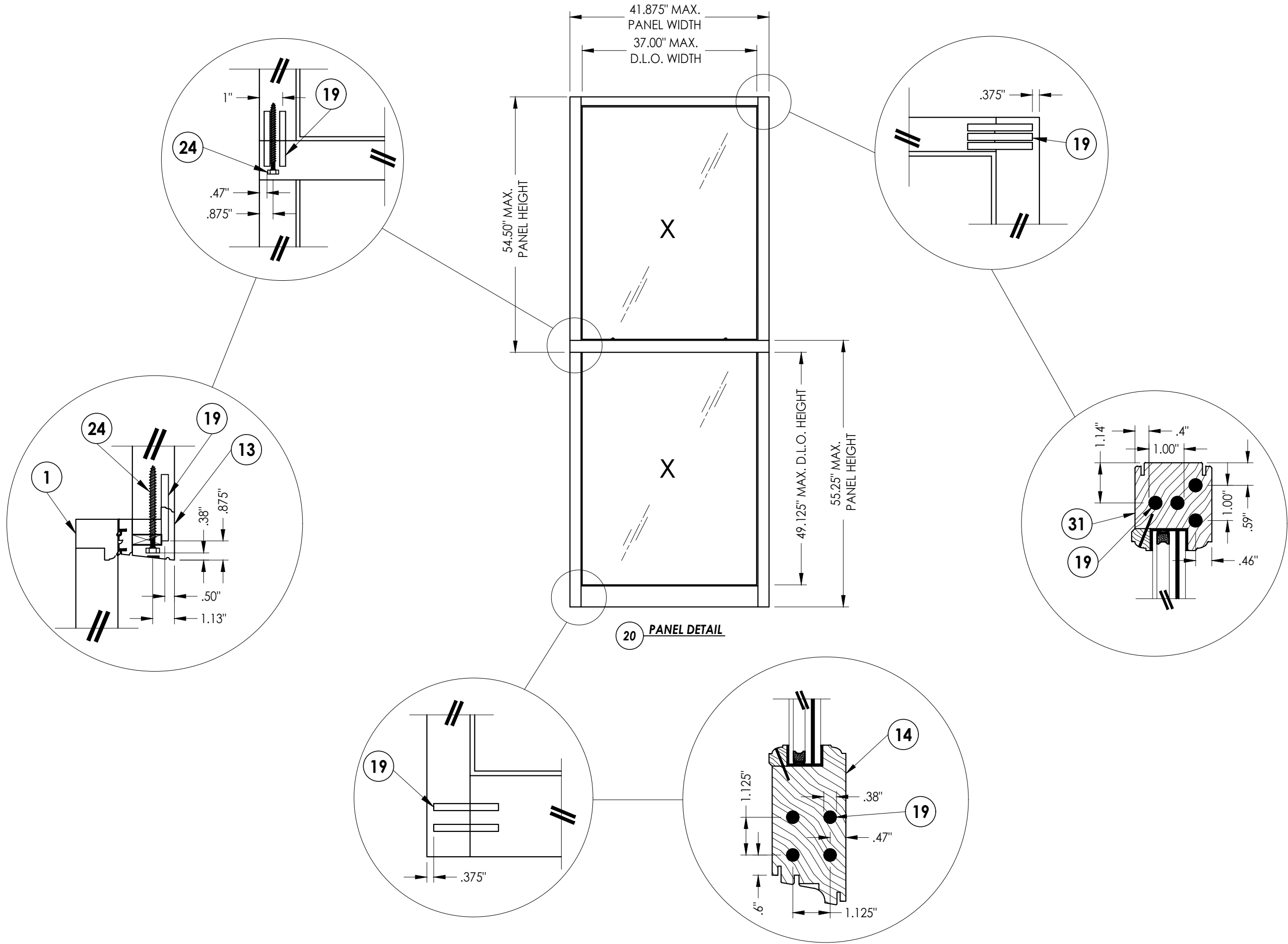
DRAWING NO.:

FL-11474.2

SHEET 6 OF 9

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

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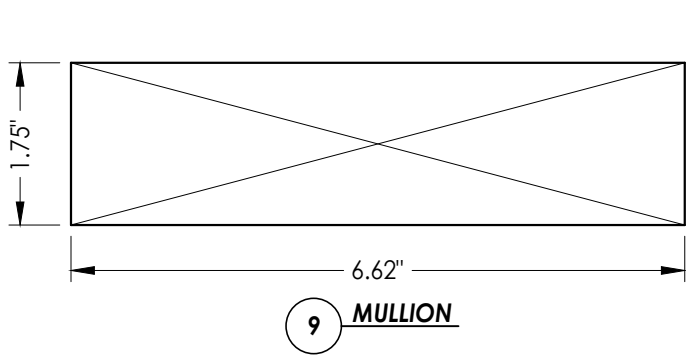
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DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-11474.2
SHEET 7 OF 9

NO.	DATE	REVISIONS
6	9/13/23	UPDATE TO 8TH ED. (2023) FBC
5	9/16/20	UPDATE TO 7TH ED. (2020) FBC
4	7/10/17	UPDATE TO 6TH ED. (2017) FBC
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1	1/26/12	UPDATE TO 2010 FBC
NO.	DATE	REVISIONS

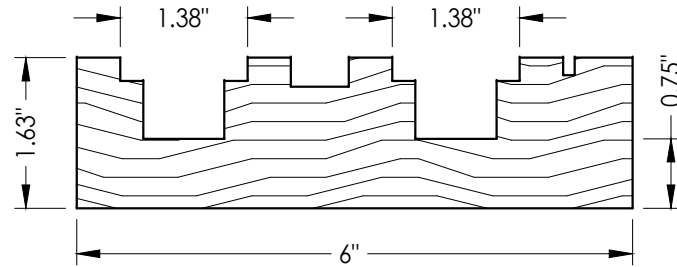
PRODUCT:
BRANNEN MILLWORKS
DOUBLE HUNG WINDOW
PART OR ASSEMBLY:
PANEL DETAILS

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

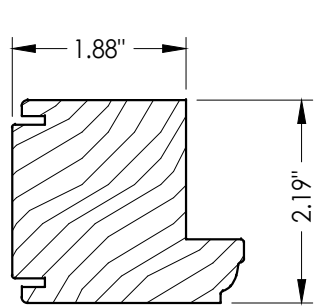
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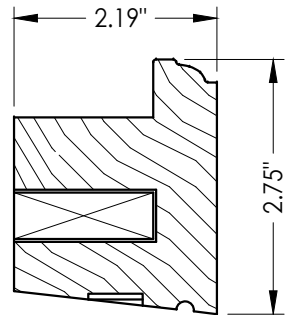
9 **MULLION**



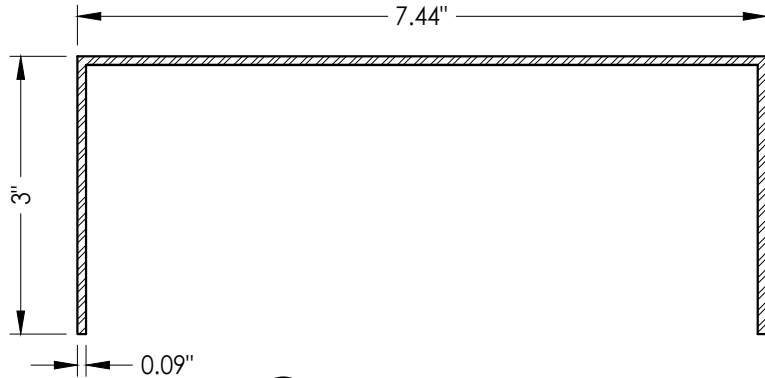
3 **JAMB**



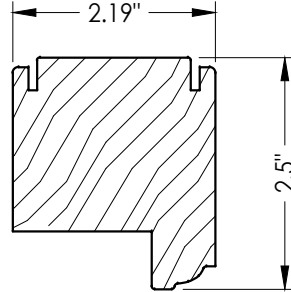
1 **SASH STILE**



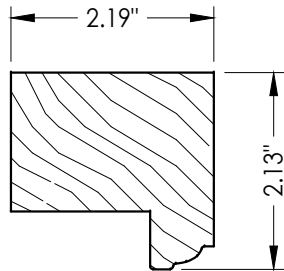
13 **BOTTOM SASH**
Top rail



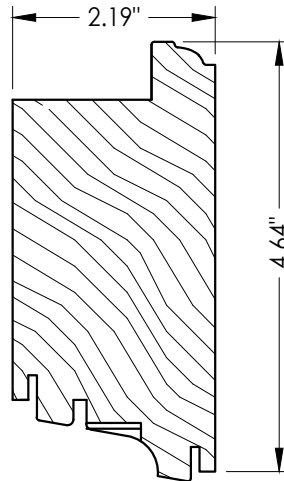
2 **GALVANIZED STEEL STRAP**
1-1/4" Wide



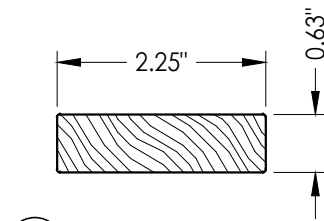
31 **TOP SASH**
Top rail



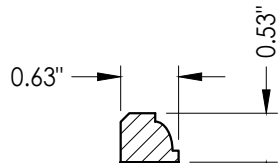
21 **TOP SASH**
Bottom rail



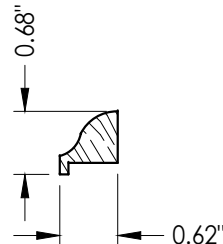
14 **BOTTOM SASH**
Bottom rail



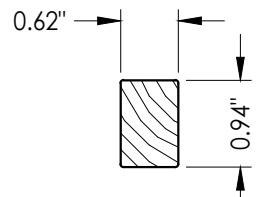
28 **EXTERIOR SASH STOP**



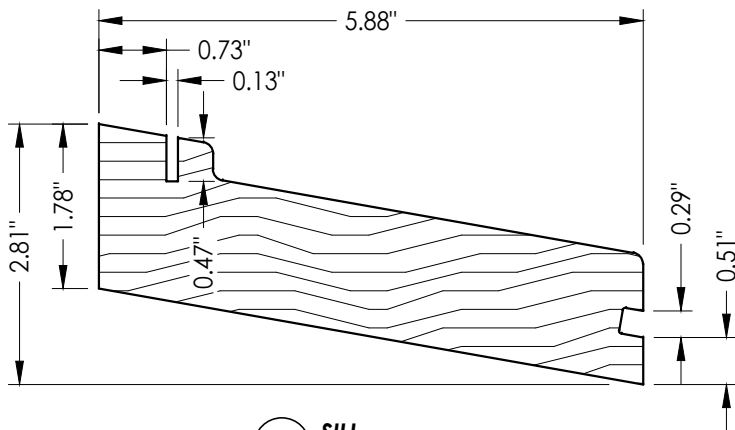
4 **GLASS STOP**



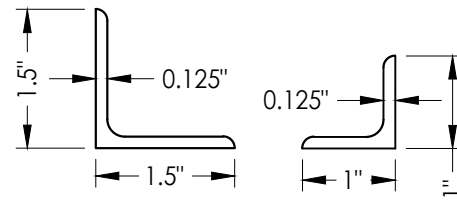
26 **INTERIOR SASH STOP**



27 **SASH GUIDE**

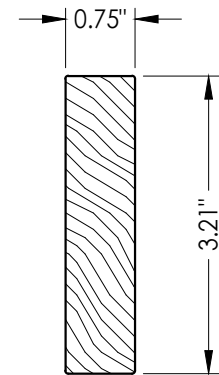


7 **SILL**



@ HEAD & JAMBS @ SILL

35 **ALUMINUM FLANGE ANCHOR**



29 **SILL EXTENDER**

Documents Prepared By:
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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
BRANNEN MILLWORKS
DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS
6	9/13/23	UPDATE TO 8TH ED. (2023) FBC
5	9/16/20	UPDATE TO 7TH ED. (2020) FBC
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DATE: 10/2/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.:

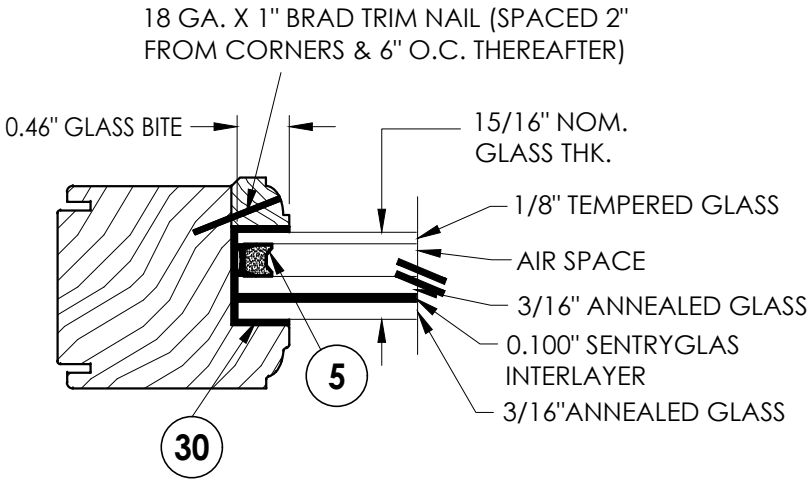
FL-11474.2

SHEET 8 OF 9

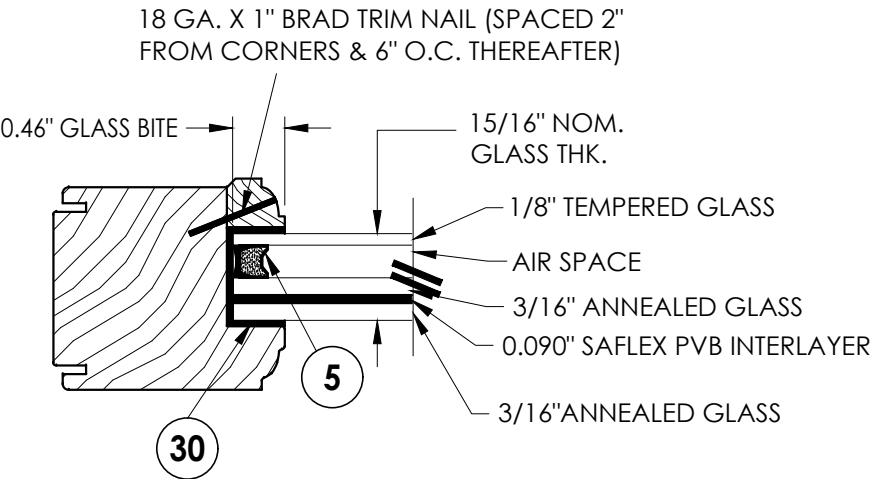
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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
C	3/8" MAX SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
1	SASH STILE	WOOD
2	GALVANIZED STEEL STRAP	STEEL
3	JAMB	WOOD
4	GLASS STOP	WOOD
5	GLAZING SPACER (DESICCANT FILLED)	ST. STEEL
6	WEATHERSTRIP QEZD250 BY SCHLEGEL	-
7	SILL	WOOD
8	#7 X 1-1/2" GALVANIZED NAIL (1-3/8" MIN. EMBEDMENT)	STEEL
9	MULLION	WOOD
10	MEETING RAIL	WOOD
11	18 GAUGE X 1" BRAD	STEEL
12	#10 X 3/4" PH SMS	ST. STEEL
13	BOTTOM SASH TOP RAIL	WOOD
14	BOTTOM SASH BOTTOM RAIL	WOOD
15	1/8" X 3/4" BRASS SLIDE	BRASS
16	SUPER-LIFT SPIRAL TUBE BALANCE BY UNIQUE BALANCE	-
17	1/2" X 1-1/2" STAPLE (16 GA.)	STEEL
18	1/2" X 1-1/2" MEETING RAIL REINFORCEMENT	ALUM.
19	DOWEL 3/8" X 3-1/2"	WOOD
20	PANEL DETAIL	-
21	TOP SASH BOTTOM RAIL	WOOD
22	WINDOW LOCK	STEEL
23	FRAME HEADER	WOOD
24	#24 X 4-1/4" HWH LAG BOLT	STEEL
25	#10 X 2-1/2" PFH WOOD SCREW	STEEL
26	INTERIOR SASH STOP	WOOD
27	SASH GUIDE	WOOD
28	EXTERIOR SASH STOP	WOOD
29	SILL EXTENDER	WOOD
30	DOW 995 STRUCTURAL SILICONE GLAZING COMPOUND	SILICONE
31	TOP SASH TOP RAIL	WOOD
32	#8 X 3" PFH WOOD SCREW	STEEL
33	#7 X 2" GALVANIZED NAIL (1-3/8" MIN. EMBEDMENT)	STEEL
35	ALUMINUM FLANGE ANCHOR (6063-T5)	WOOD
36	#8 X 1-1/2" FH DEEP THREAD WOOD SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
37	#8 X 3/4" PFH WOOD SCREW (5/8" MIN. EMBEDMENT)	STEEL

NOTE: WINDOW FRAME WOOD (SG >= 0.54)



G1 GLAZING DETAIL



G2 GLAZING DETAIL

Documents Prepared By:
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PRODUCT:
BRANNEN MILLWORKS
DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
BILL OF MATERIALS
& GLAZING DETAIL

NO.	DATE	REVISIONS
6	9/13/23	UPDATE TO 8TH ED. (2023) FBC
5	9/16/20	UPDATE TO 7TH ED. (2020) FBC
4	7/10/17	UPDATE TO 6TH ED. (2017) FBC
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING
2	08/03/15	UPDATE TO 5TH ED. (2014) FBC
1	1/26/12	UPDATE TO 2010 FBC

DATE: 10/2/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.:

FL-11474.2

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