



L. F. SCHMIDT
LICENSE
No. 43409
★
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Lyndon F. Schmidt
Digitally signed
by Lyndon F
Schmidt
Date: 2023.07.12
09:55:55 -04'00'

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L. F. Schmidt, P.E. on the date adjacent to the seal.
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THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

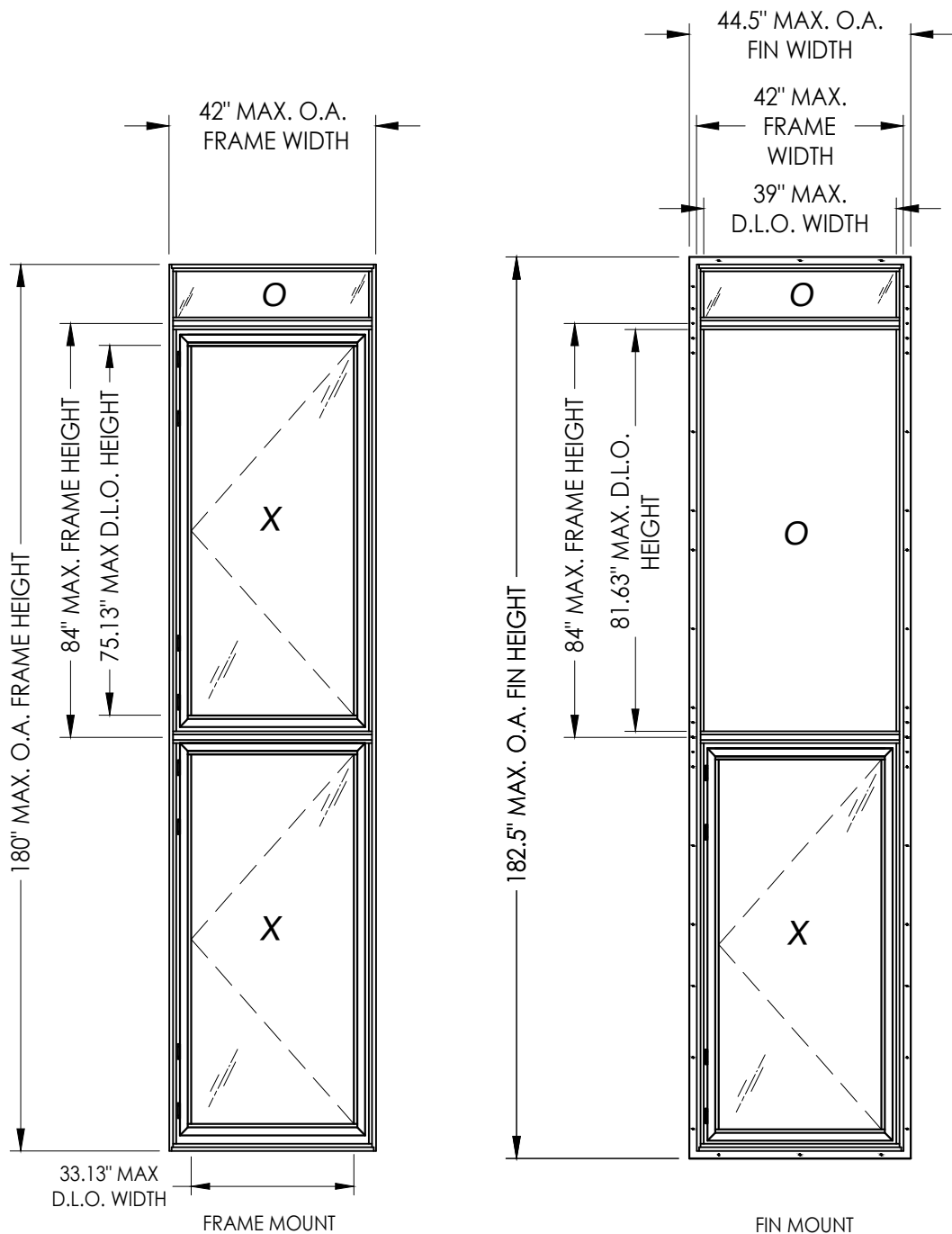
Series 3800-T w/ Series 350-T Aluminum Casement Window w/ Thermal Break Frame "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including 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 the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" 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.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. This product meets water infiltration requirements for "HVHZ".
8. Gaskets and setting blocks shall comply with Section 2411.3.4 of the FBC.
9. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.

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SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Elevations
3	Horizontal cross sections
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6	Buck & frame anchoring
7	Glazing details (Operable)
8	Glazing details (Fixed)
9	Bill of materials and components



OVERALL FIN DIMENSION	OVERALL FRAME DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
44.5" X 182.5"	42.0" X 180.0"	33.13" X 75.13" (X)	G1, G2, G3, G4, G5, G6	+65.0	-65.0
		39.0" X 81.63" (O)	G7, G8, G9, G10, G11		

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

PRODUCT:
FLEETWOOD WINDOWS & DOORS

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

REVISIONS

5	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	12/7/21	SERIES NAME CHANGE		LFS
3	8/06/20	UPDATE TO 7TH ED. (2020)	FBC	DAC
2	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	8/22/16	RENUMBER DRAWINGS		LFS
NO.	DATE			BY

DATE: 6/27/16

SCALE: N.T.S.

DWG. BY: JK

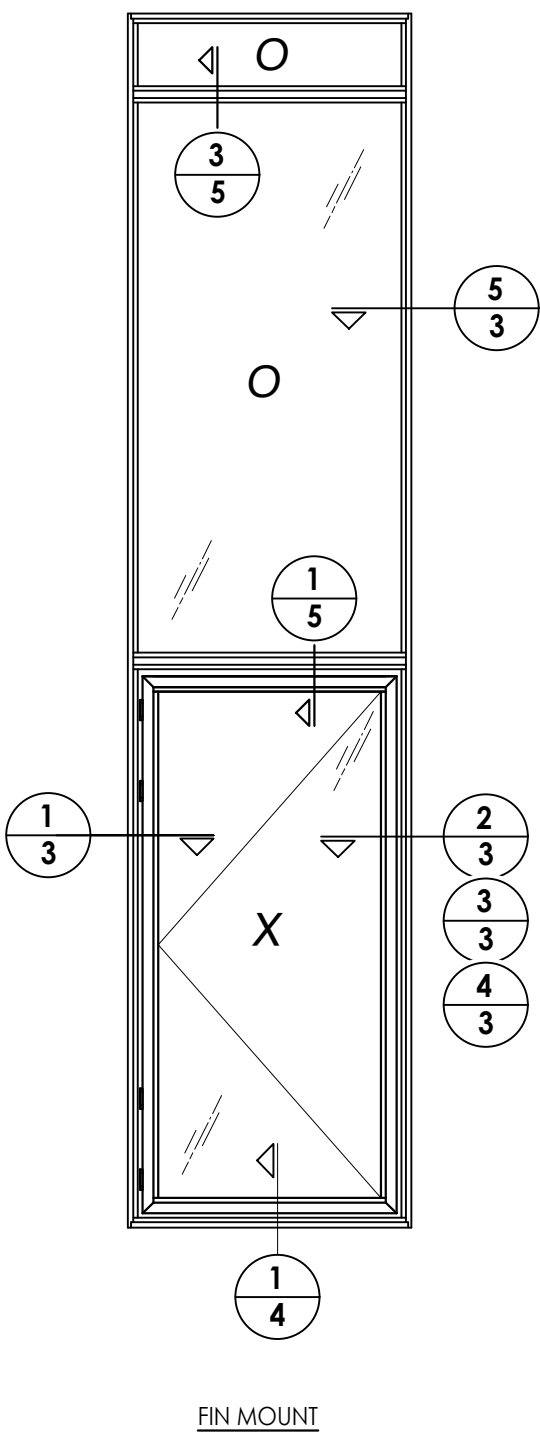
CHK. BY: LFS

DRAWING NO.: FL-14904.7

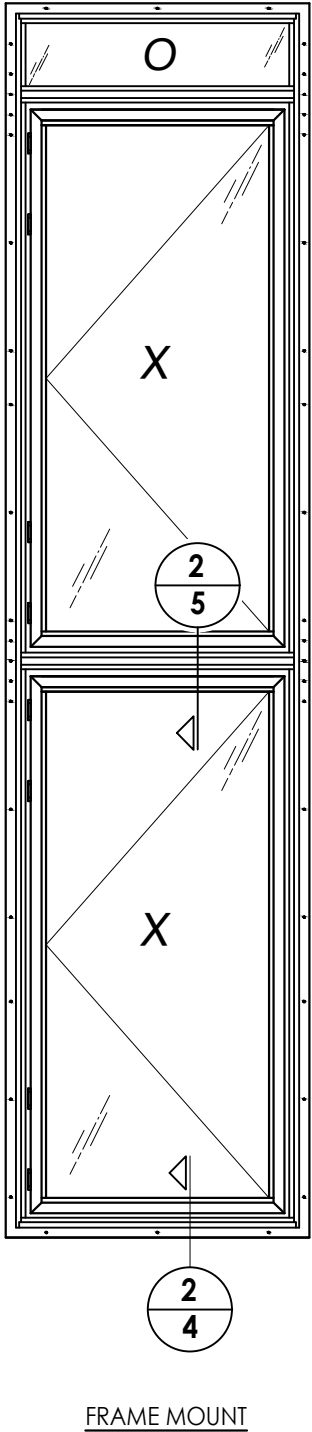
SHEET 1 OF 9

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

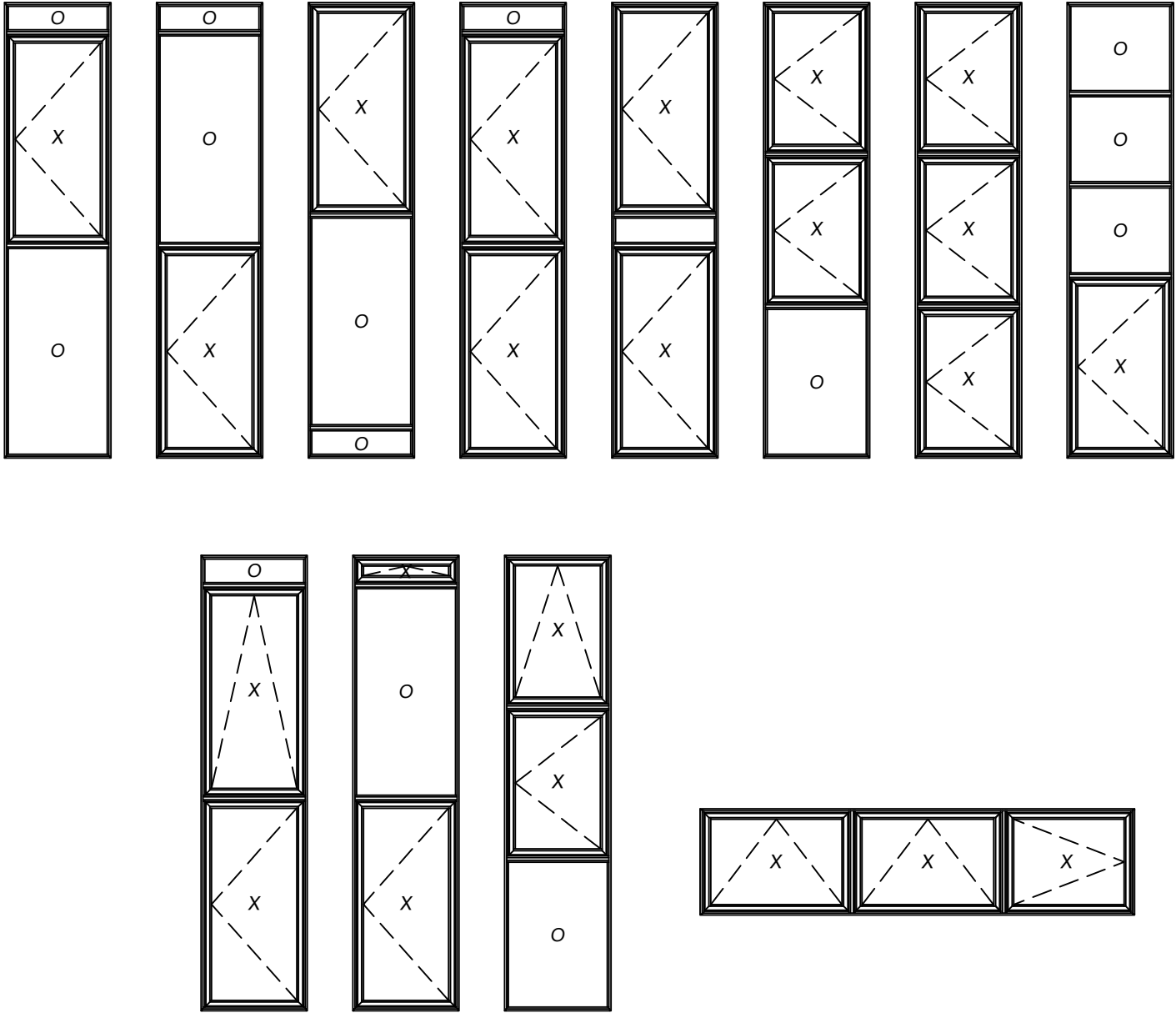
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FIN MOUNT



FRAME MOUNT



OPTIONAL CONFIGURATIONS

NOTE: Any combination of awning, casement or fixed windows configurations are allowed. Do not exceed the maximum frame size or daylight openings as shown in this approval or with the separate corresponding awning approval.

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5	7/12/23	UPDATE TO 8TH ED. (2023) FBC
4	12/7/21	SERIES NAME CHANGE
3	8/06/20	UPDATE TO 7th ED. (2020) FBC
2	8/07/17	UPDATE TO 6TH ED. (2017) FBC
1	8/22/16	RENUMBER DRAWINGS
NO.	DATE	BY

DATE: 6/27/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14904.7

SHEET 2 OF 9

PRODUCT: FLEETWOOD WINDOWS & DOORS

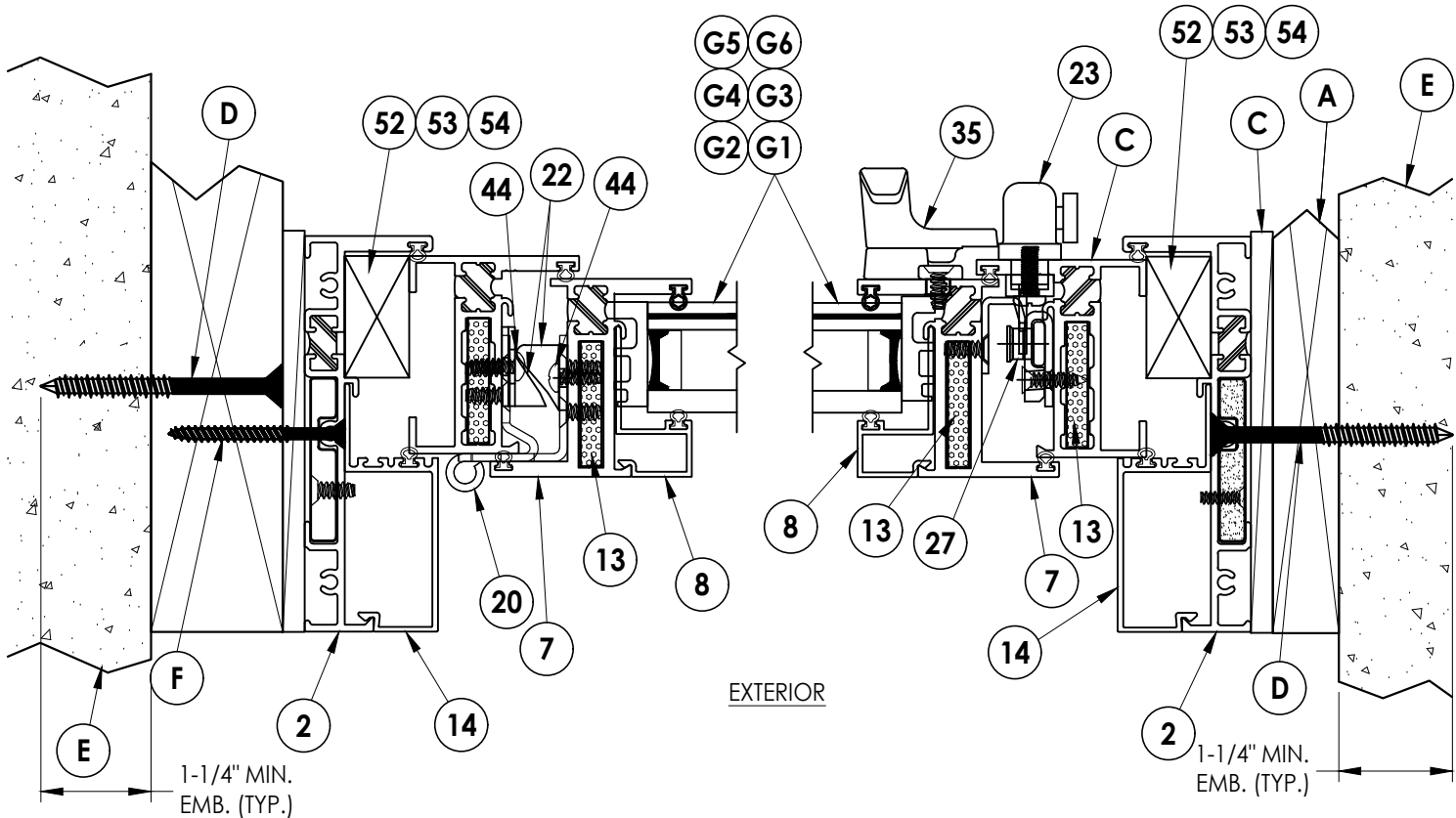
PART OR ASSEMBLY:

ELEVATIONS

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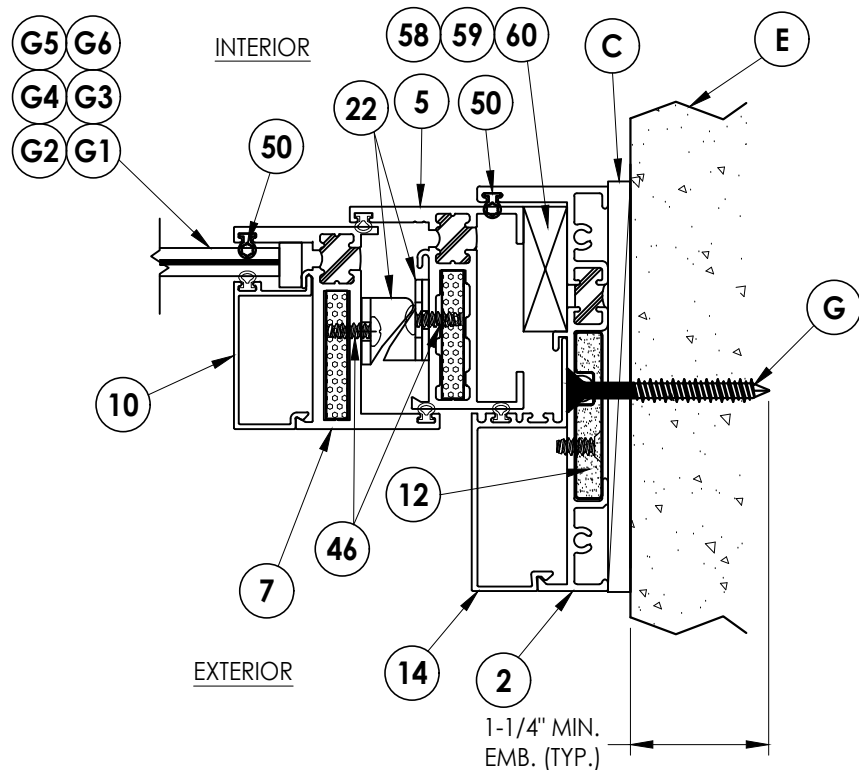
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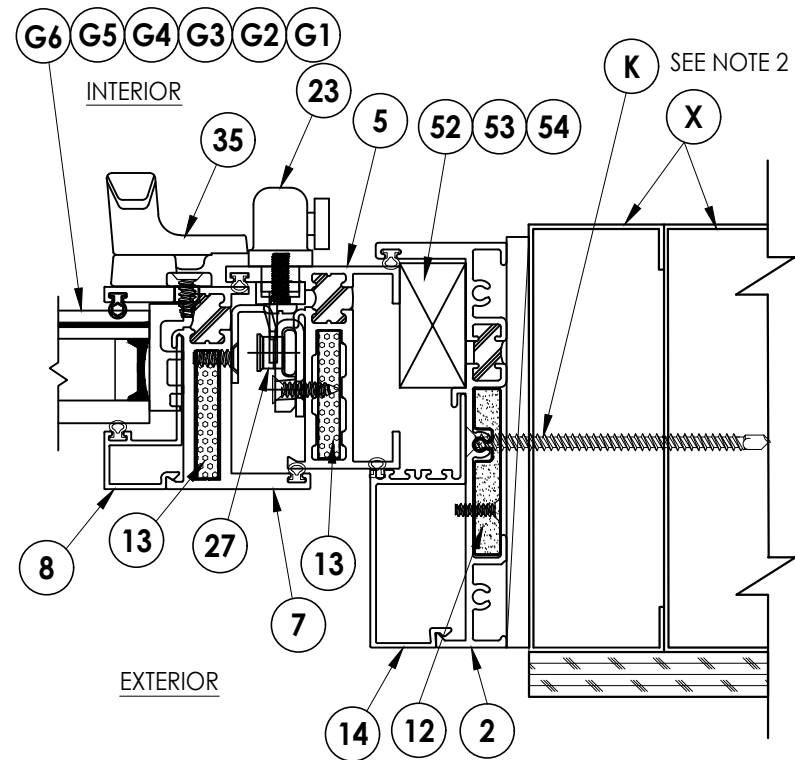
1 **HORIZONTAL CROSS SECTION**
3 Shown w/ 2X Buck Construction

2 **HORIZONTAL CROSS SECTION**
3 Shown w/ 1X Sub buck option

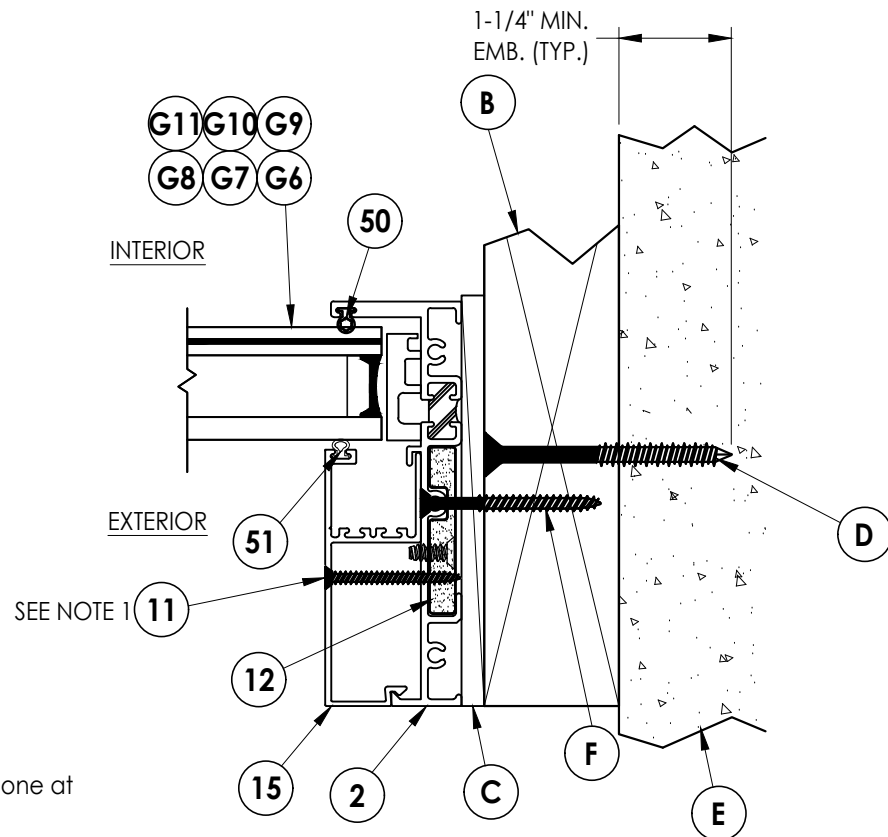


4 **HORIZONTAL CROSS SECTION**
3 Shown w/ Direct to Masonry option

- NOTES:
- Item #11 located 6" from each end plus one at center along jambs (3 total).
 - Sheet Metal Screws must penetrate a min. of 3 threads through at least two (2) sheets of metal. Maintain a minimum 1/2" edge distance.



3 **HORIZONTAL CROSS SECTION**
3 Shown w/ Steel Stud option



5 **HORIZONTAL CROSS SECTION**
3 Shown w/ 2X Buck option

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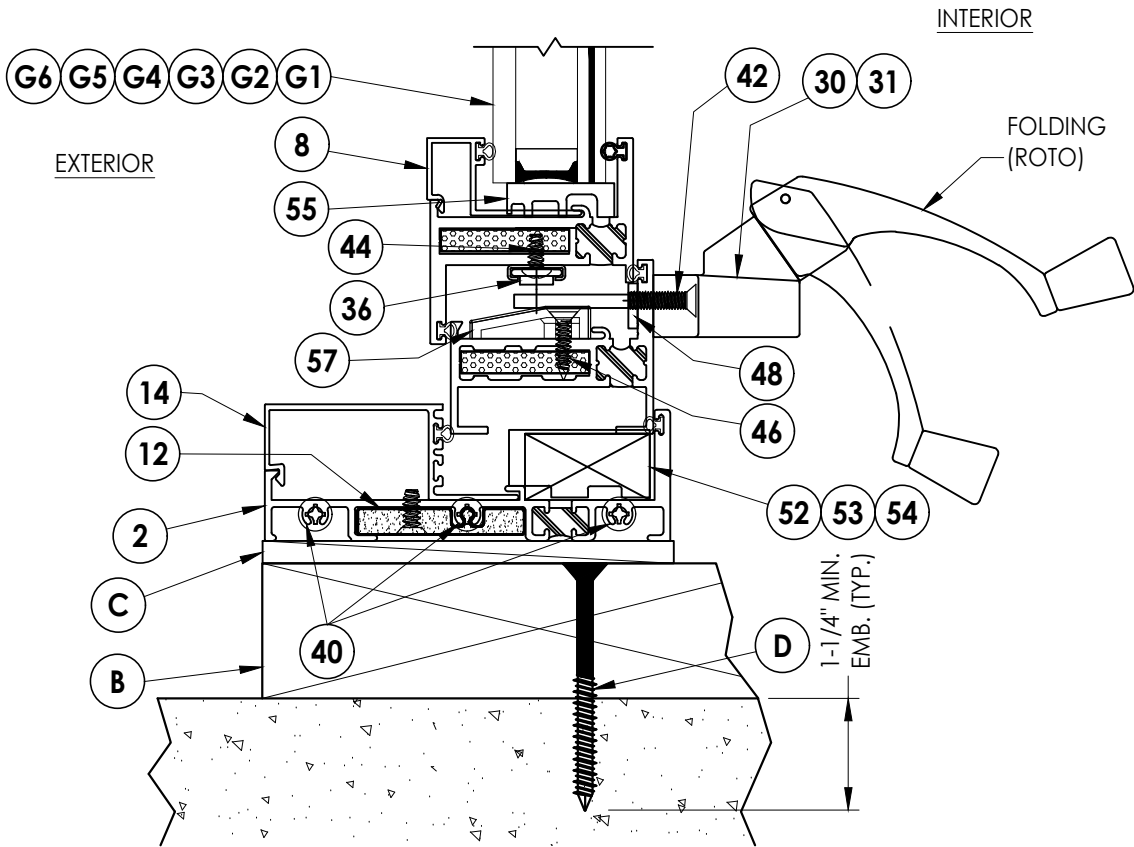
PRODUCT:
FLEETWOOD WINDOWS & DOORS

NO.	DATE	BY
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4	12/7/21	LFS
3	8/06/20	DAC
2	8/07/17	FBC
1	8/22/16	LFS

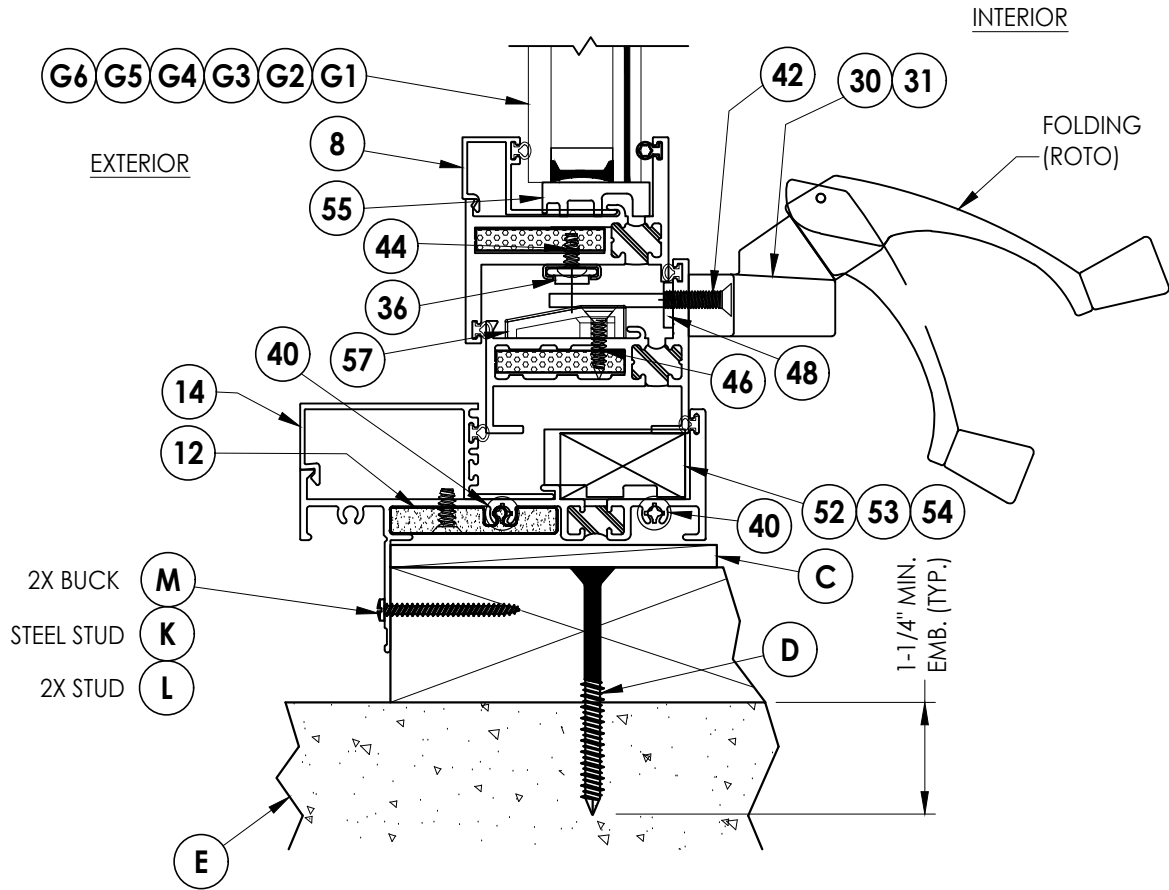
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14904.7
SHEET 3 OF 9

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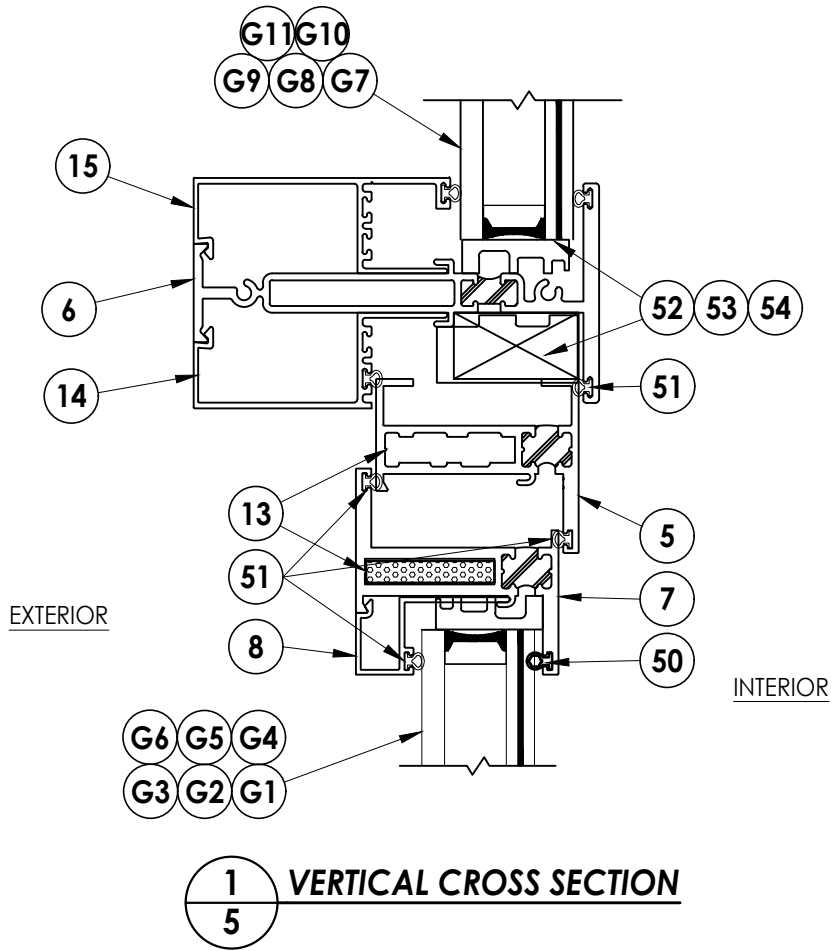
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4 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck Construction



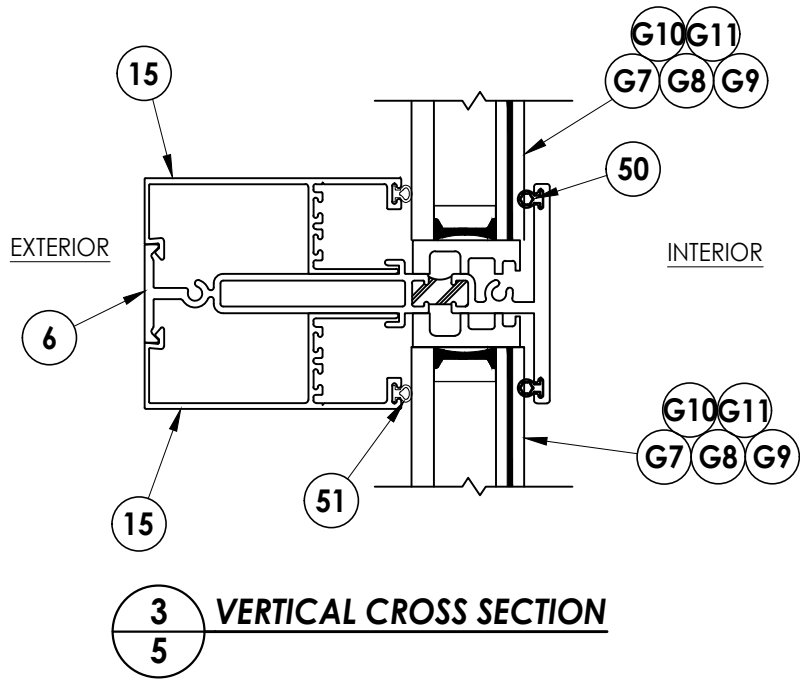
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4 **VERTICAL CROSS SECTION**
2X Buck Construction
Shown w/ nailing fin option

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PRODUCT: FLEETWOOD WINDOWS & DOORS	PART OR ASSEMBLY: VERTICAL CROSS SECTIONS		
5	7/12/23	UPDATE TO 8TH ED. (2023)	FBC LFS
4	12/7/21	SERIES NAME CHANGE	LFS
3	8/06/20	UPDATE TO 7th ED. (2020)	FBC DAC
2	8/07/17	UPDATE TO 6TH ED. (2017)	FBC LFS
1	8/22/16	RENUMBER DRAWINGS	LFS
NO.	DATE		BY
DATE: 6/27/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14904.7			
SHEET 4 OF 9			

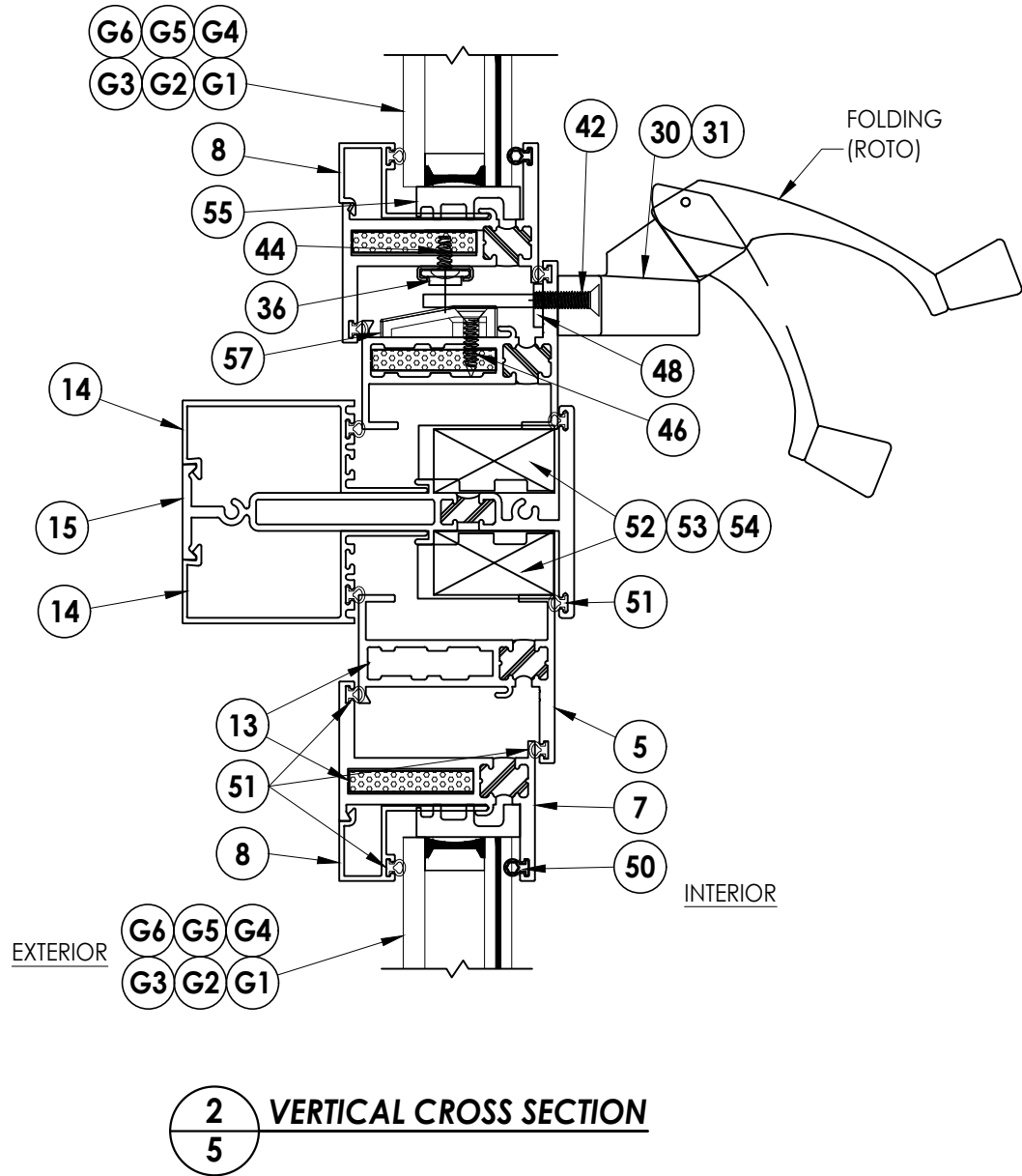
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1
5
VERTICAL CROSS SECTION



3
5
VERTICAL CROSS SECTION



2
5
VERTICAL CROSS SECTION

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FBPE Registry No. 9813

PRODUCT:
FLEETWOOD WINDOWS & DOORS

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

5	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
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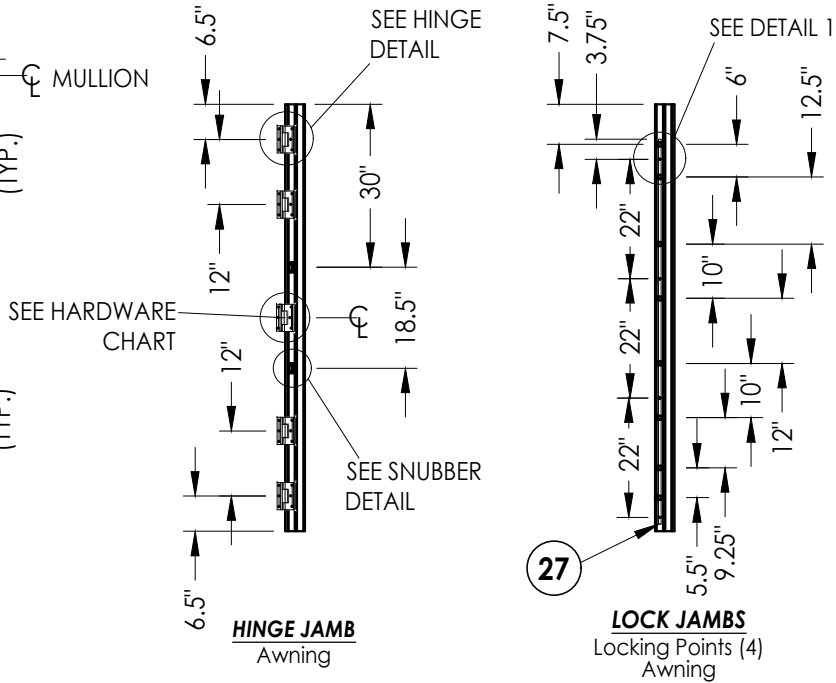
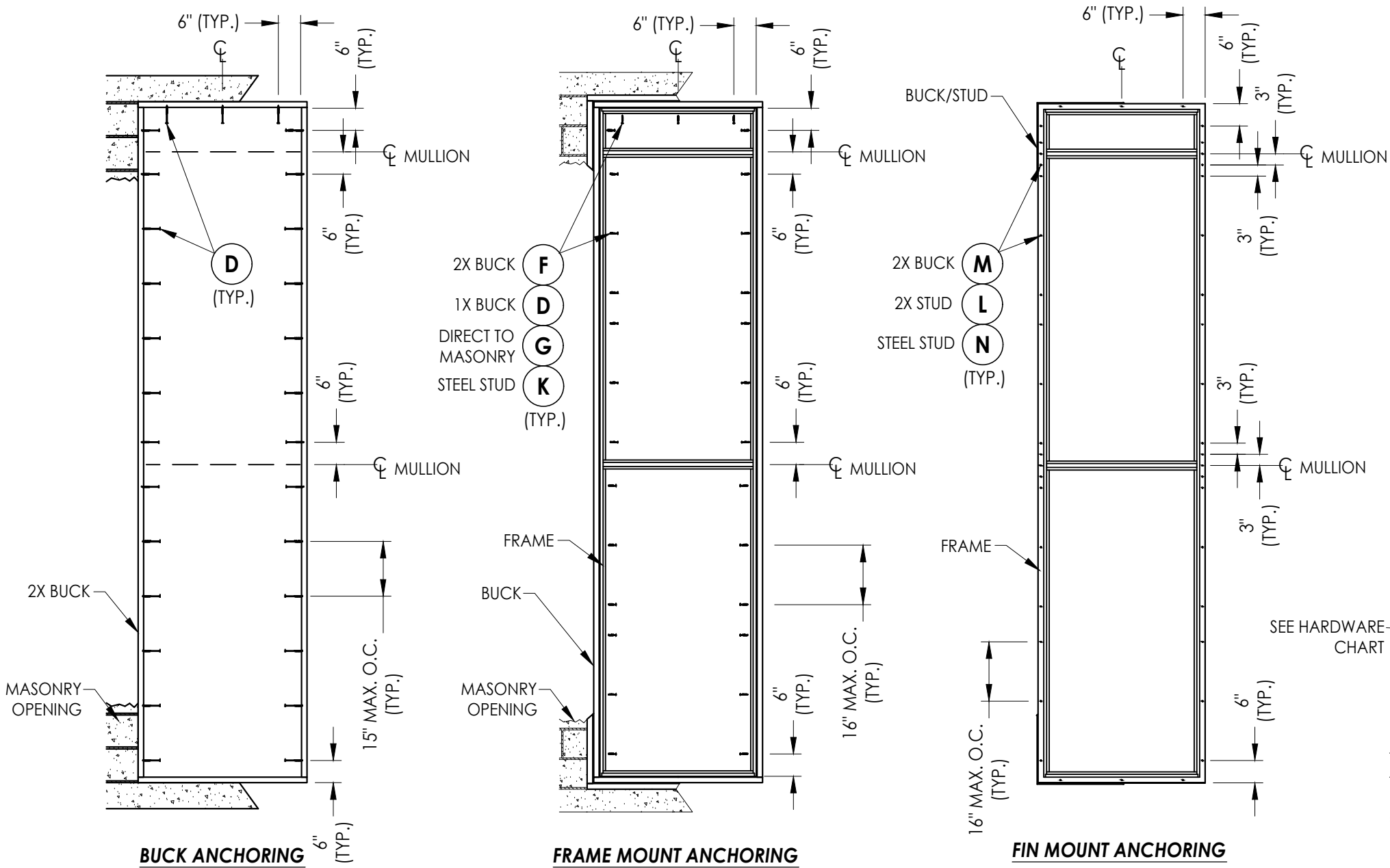
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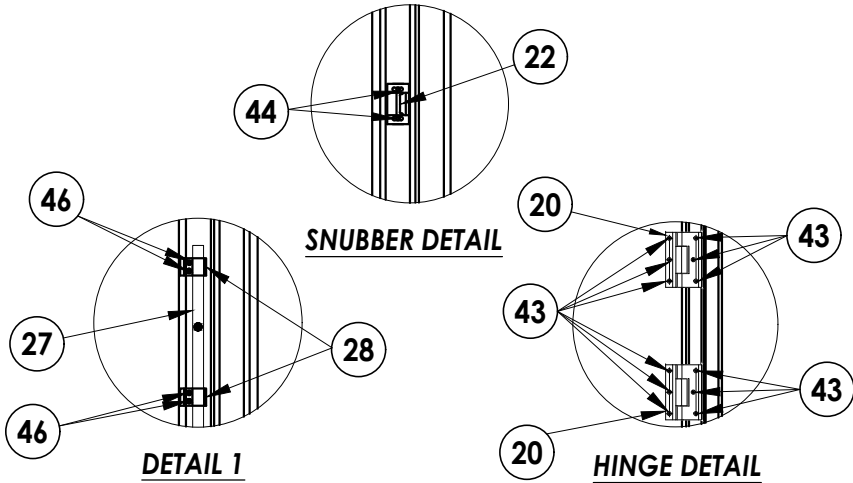
SHEET 5 OF 9



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



AWNING HARDWARE TABLE			
HINGE			
Qty.	Description	Height	Snubbers
5	Butt hinge	≤ 84"	Not Req'd
4	Butt hinge	≤ 84"	Yes (2)
2	Butt hinge	≤ 50"	Yes (2)
2	4 Bar hinge	≤ 65"	Yes (3)
HANDLES			
Points	Description	Height	*Cam locks can be used in conjunction with multipoint lock or in lieu of multipoint locks
4	Multipoint	> 72"	
3	Multipoint	≤ 72"	
Qty.			
3	Cam*	≤ 65"	
1	Cam*	≤ 50"	

PRODUCT:
FLEETWOOD WINDOWS & DOORS

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

NO.	DATE	REVISIONS
5	7/12/23	UPDATE TO 8TH ED. (2023) FBC
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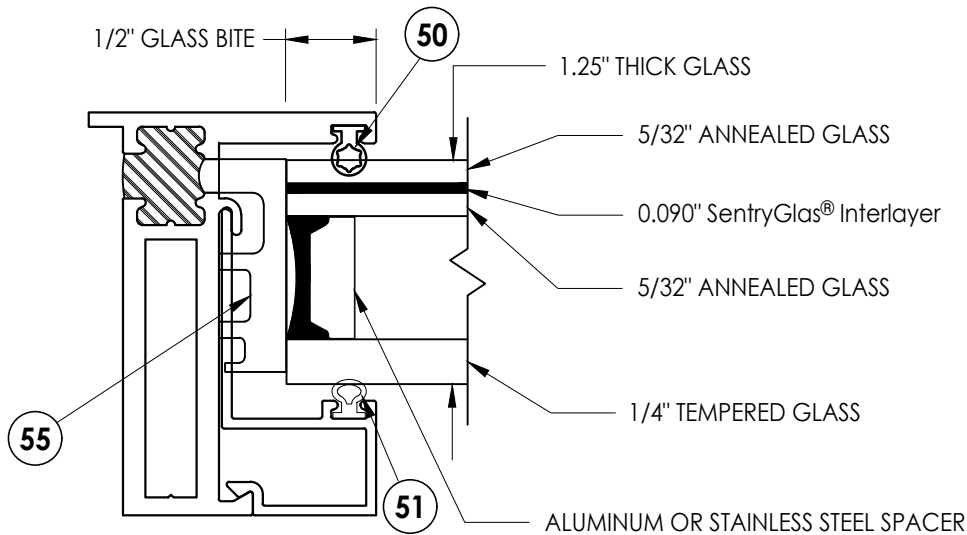
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SHEET 6 OF 9

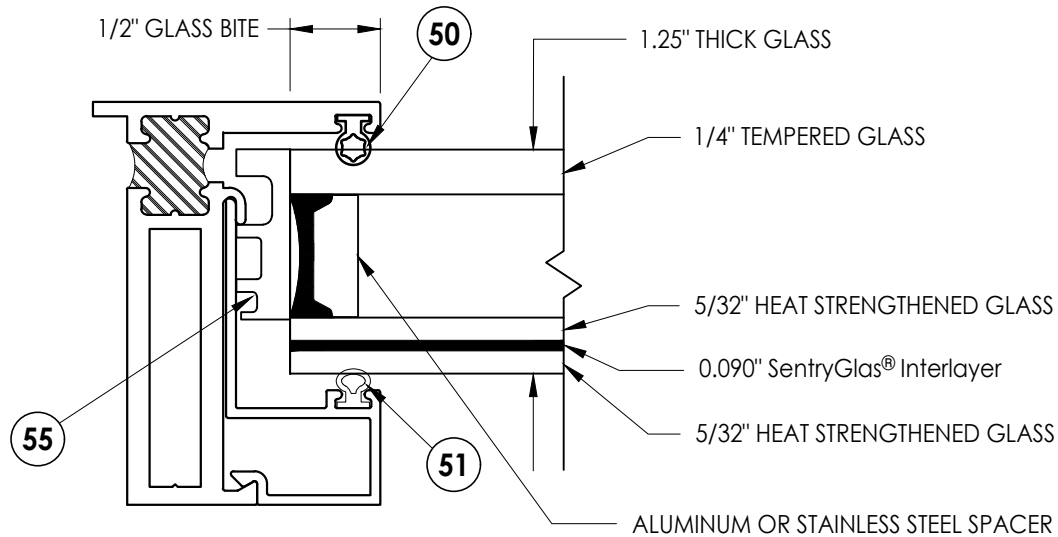
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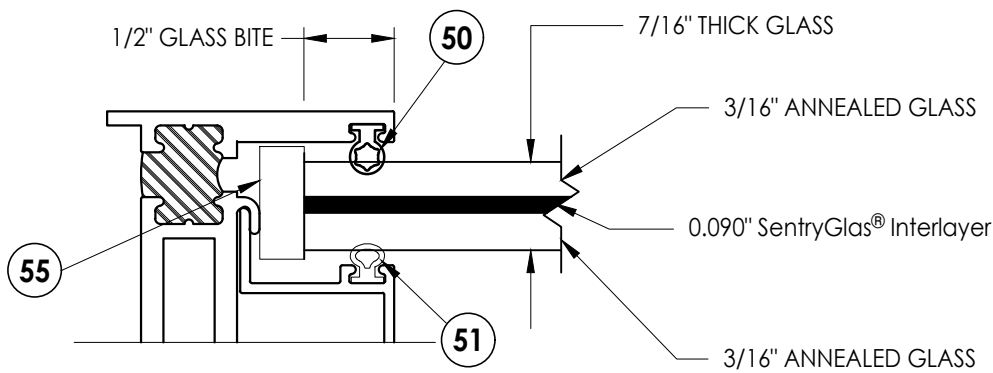
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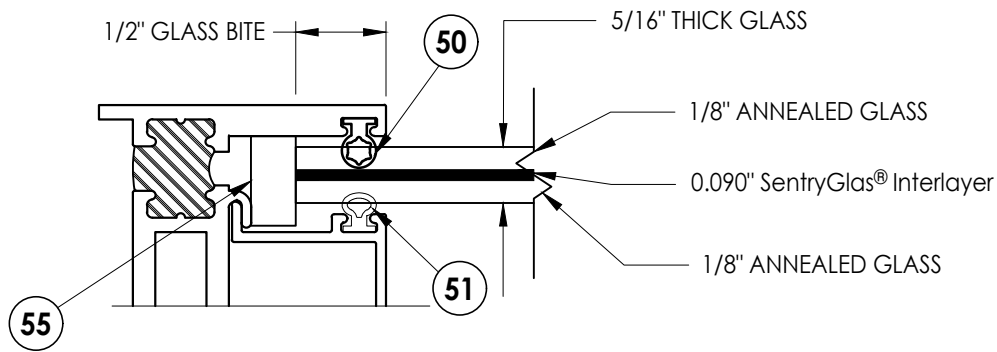
G1 GLAZING DETAIL



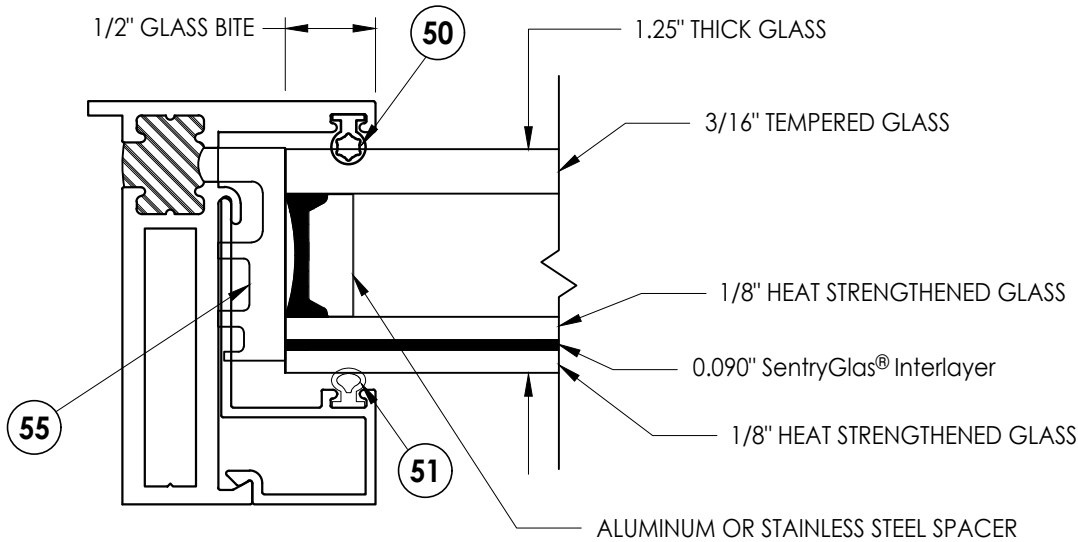
G2 GLAZING DETAIL



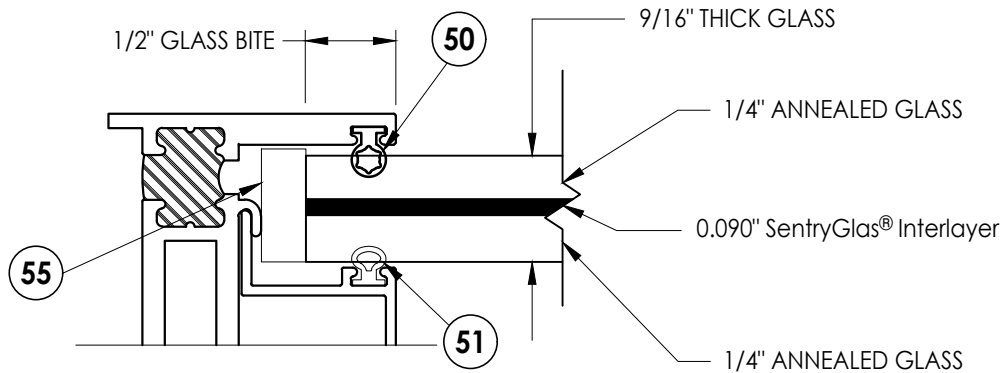
G3 GLAZING DETAIL



G4 GLAZING DETAIL



G5 GLAZING DETAIL



G6 GLAZING DETAIL

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PRODUCT:
FLEETWOOD WINDOWS & DOORS

PART OR ASSEMBLY:
GLAZING DETAILS (OPERABLE)

		7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
		5	12/7/21	SERIES NAME CHANGE	LFS
		3	8/06/20	UPDATE TO 7th ED. (2020)	DAC
		2	8/07/17	UPDATE TO 6TH ED. (2017)	FBC
		1	8/22/16	RENUMBER DRAWINGS	LFS
		NO.	DATE		BY
REVISIONS					

DATE: 6/27/16

SCALE: N.T.S.

DWG. BY: JK

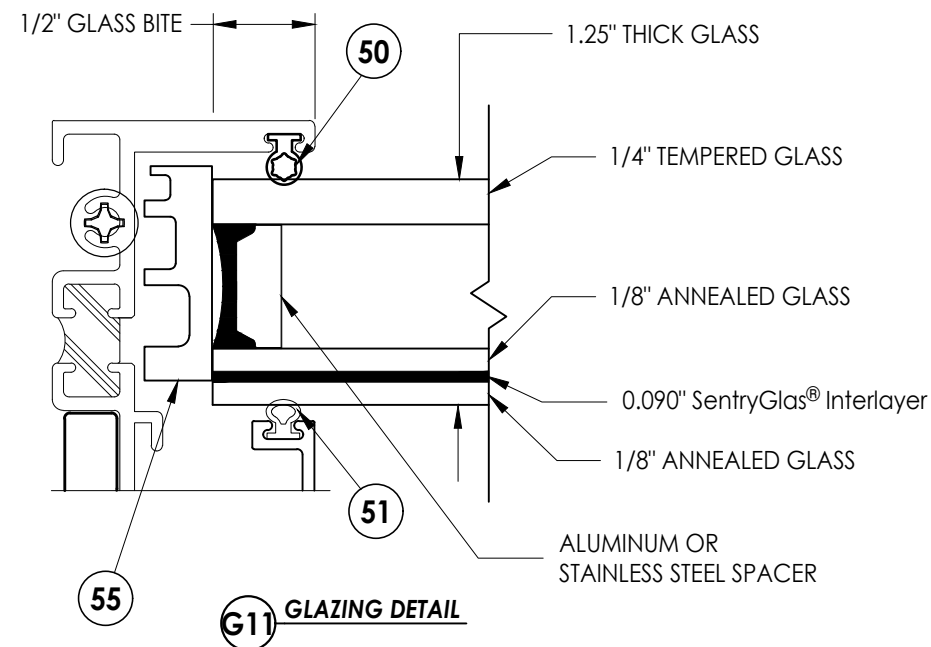
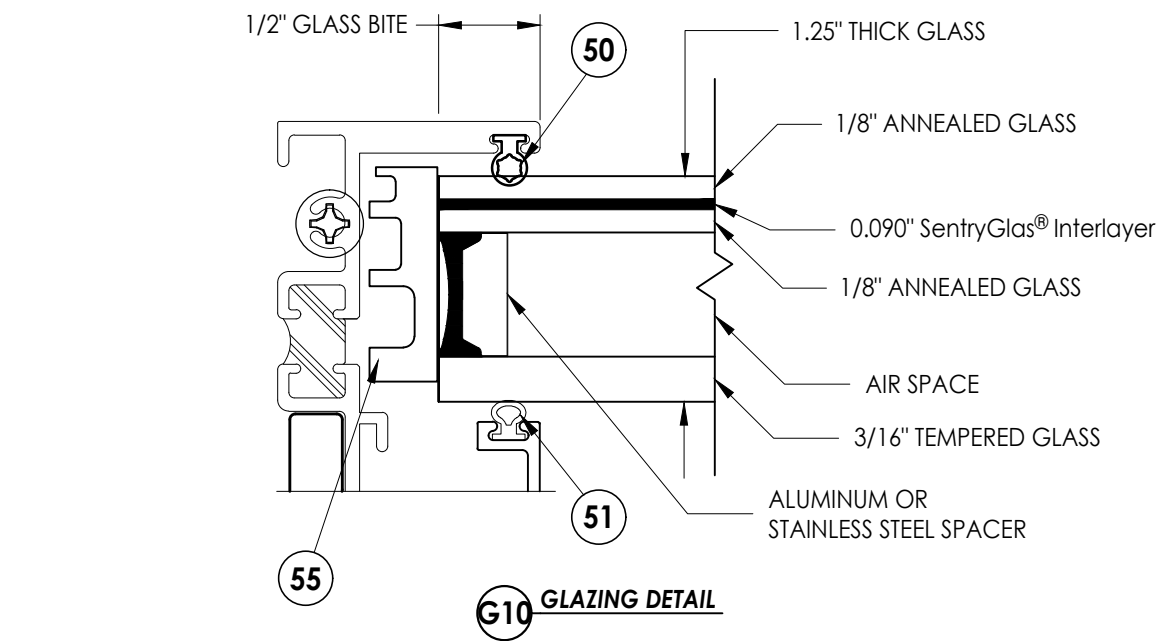
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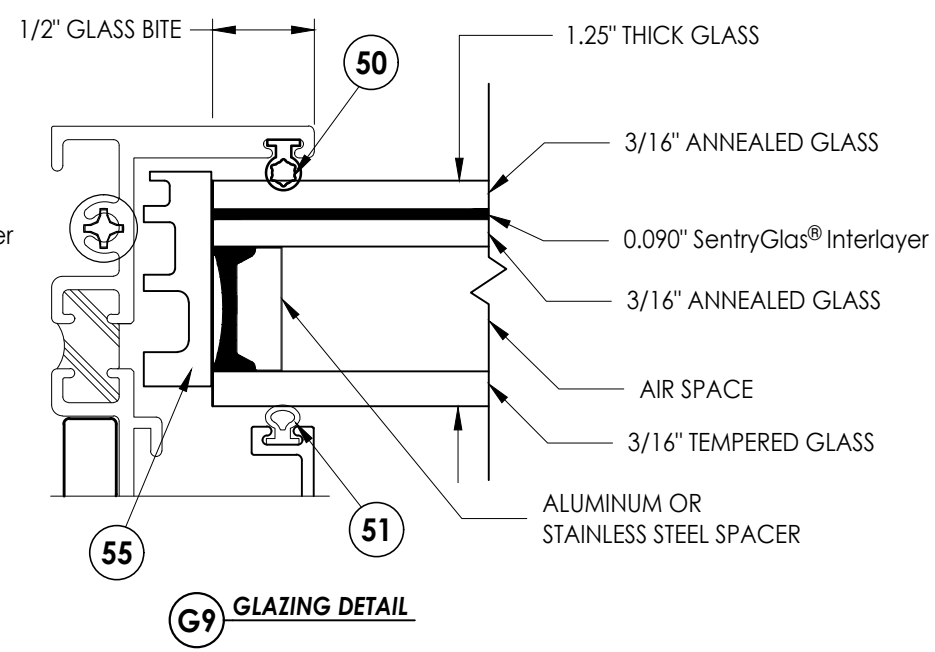
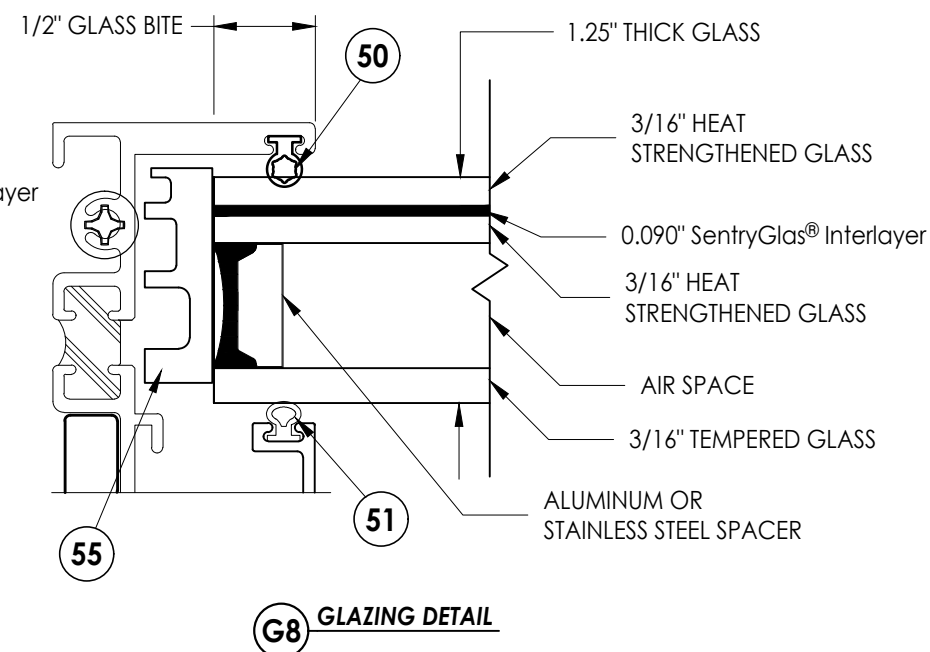
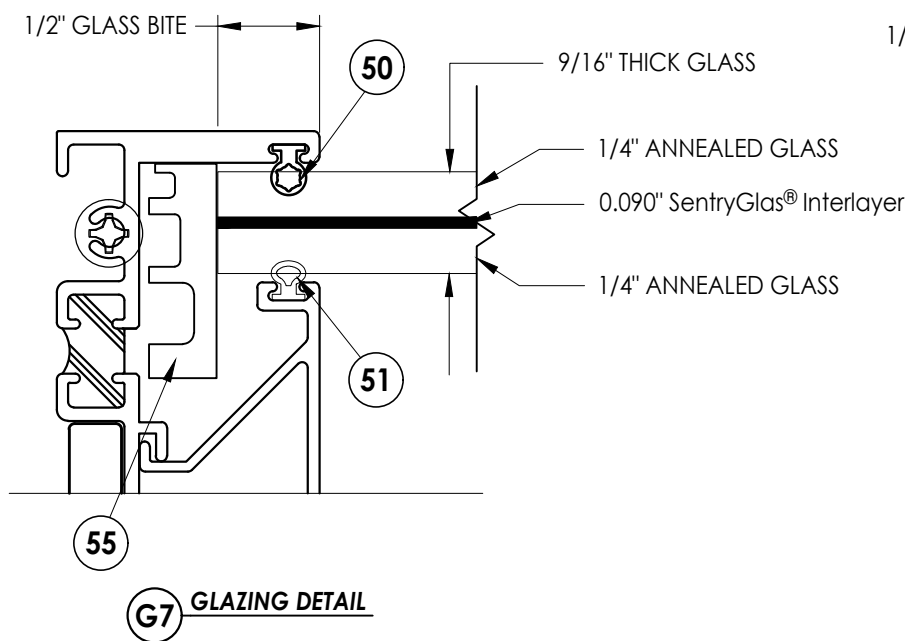
FL-14904.7

SHEET 7 OF 9

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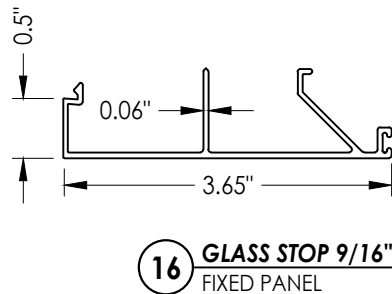
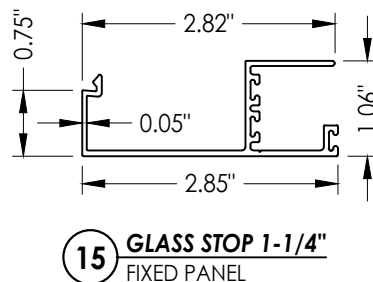
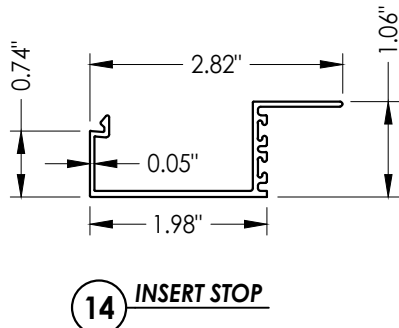
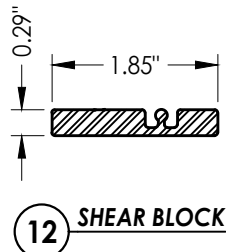
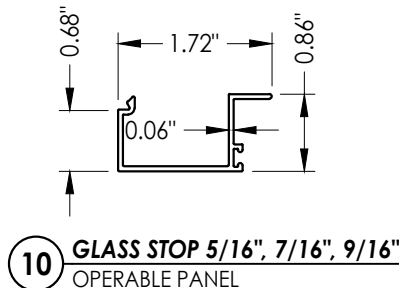
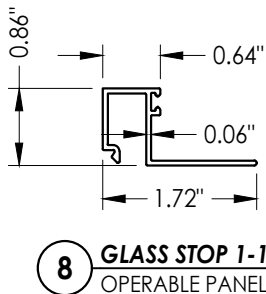
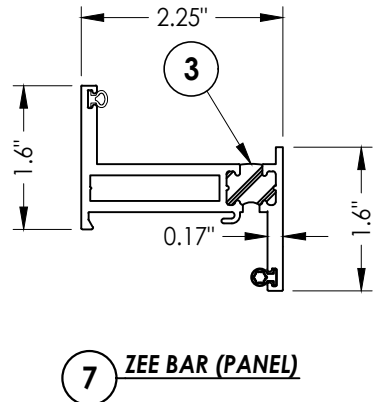
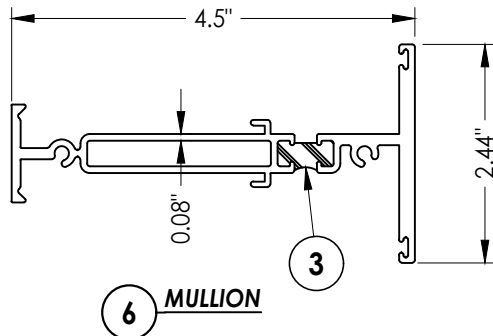
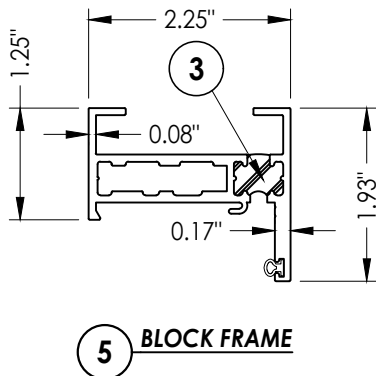
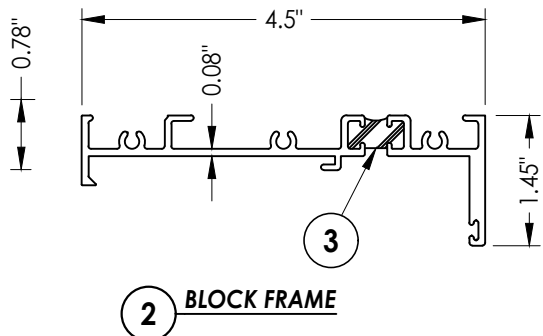
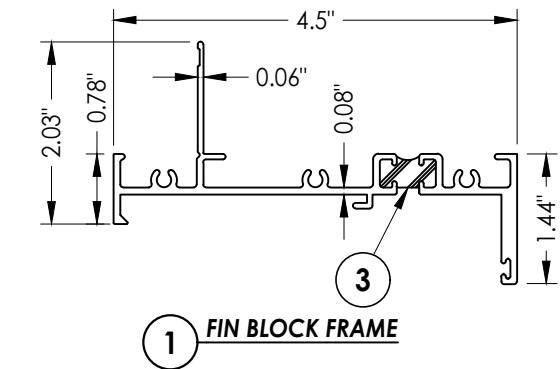
NOTE: GLAZING > 36" WIDE REQUIRES AT LEAST TWO (2) SETTING BLOCKS CONFORMING TO FBC SECTION 2411.3.3.1.



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PRODUCT:		FLEETWOOD WINDOWS & DOORS		PART OR ASSEMBLY: GLAZING DETAILS (FIXED)	
5	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
4	12/7/21	SERIES NAME CHANGE		LFS	
3	8/06/20	UPDATE TO 7th ED. (2020)	FBC	DAC	
2	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
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	NO.	DATE			BY
REVISIONS					
DATE: 6/27/16					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-14904.7					
SHEET 8 OF 9					

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
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" PPH WOOD SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
G	1/4" X 2-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
H	#10 X 2-3/4" PPH WOOD SCREW	STEEL
K	#10 PPH SELF-DRILLING SMS	STEEL
L	#8 PPH WS (1-3/8" MIN. EMBEDMENT)	STEEL
M	#8 X 1-1/2" PPH SMS (1-3/8" MIN. EMBEDMENT)	STEEL
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)	STEEL
1	FIN BLOCK FRAME (3800-T)	6063-T6 ALUM
2	BLOCK FRAME (3800-T)	6063-T6 ALUM
3	THERMAL BREAK ("LIQUID POLYURETHANE" by Azon USA, Inc.)	-
5	BLOCK FRAME (350-T)	6063-T6 ALUM
6	MULLION	6063-T6 ALUM
7	ZEE BAR (PANEL)	6063-T6 ALUM
8	GLASS STOP (1-1/4")	6063-T6 ALUM
10	GLASS STOP (5/16", 7/16", 9/16")	6063-T6 ALUM
11	#8 x 1-1/2" PFH SMS	STEEL
12	SHEAR BLOCK	6061-T6 ALUM
13	CORNER KEY	6063-T6 ALUM
14	INSERT STOP	6063-T6 ALUM
15	GLASS STOP (1-1/4") FIXED PANEL	6063-T6 ALUM
16	GLASS STOP (9/16") FIXED PANEL	6063-T6 ALUM
20	SS. BUTT HINGE	SS
21	4 BAR HINGE	SS
22	SNUBBER-COMMERCIAL PULL-IN BLOCK	SS
23	MULTIPOINT LOCK HANDLE	SS
26	3 POINTS LOCKING BAR (TRUTH)	SS
27	4 POINTS LOCKING BAR (TRUTH)	SS
28	TIE BAR GUIDE (TRUTH)	-
29	KEEPER (TRUTH)	SS
30	CASEMENT ROTOR GEAR 13.5" (TRUTH)	SS
31	CASEMENT ROTOR GEAR 9.5" (TRUTH)	SS
35	CAM HANDLE / STRIKE PLATE	SS
36	CASEMENT SS. TRACK (TRUTH)	SS
40	#10 X 1" PPH SMS	STEEL
42	MACHINE SCREW NO 10-32, FHP .75"	STEEL
43	SCREW NO 10 , UFHP .5"	STEEL
44	SCREW NO 8, PHP, .50"	STEEL
46	SCREW NO 8, FHP, .750"	STEEL
48	BACK UP NUTS	STEEL
50	BULB VINYL (EPDM 70 DUROMETER) - TREMCO	-
51	MINI BULB VINYL (EPDM 70 DUROMETER) - TREMCO	-
52	WOOD BLOCK .750" X 1.250"	-
53	ALUMINUM BLOCK .750" X 1.250"	-
54	PVC BLOCK .750" X 1.250"	-
55	SETTING BLOCK (SANTOPRENE - 86 DUROMETER) - TREMCO	-
57	PIVOT SHIM	-
58	WOOD BLOCK .50" X 1.250"	-
59	ALUMINUM BLOCK .50" X 1.250"	-
60	PVC BLOCK .50" X 1.250"	-



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

PRODUCT:
FLEETWOOD WINDOWS & DOORS

PART OR ASSEMBLY:
BILL OF MATERIALS
AND COMPONENTS

	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
5	4	12/7/21	SERIES NAME CHANGE	LFS
3	8/06/20	UPDATE TO 7th ED. (2020)	FBC	DAC
2	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	8/22/16	RENUMBER DRAWINGS		LFS
NO.	DATE			BY

REVISIONS

DATE: 6/27/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14904.7

SHEET 9 of 9