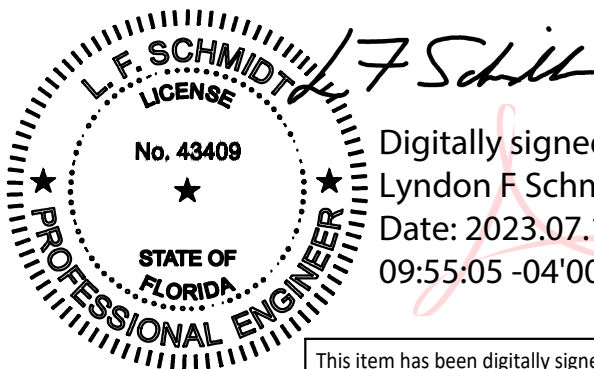




Digitally signed by
Lyndon F Schmidt
Date: 2023.07.12
09:55:05 -04'00'

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

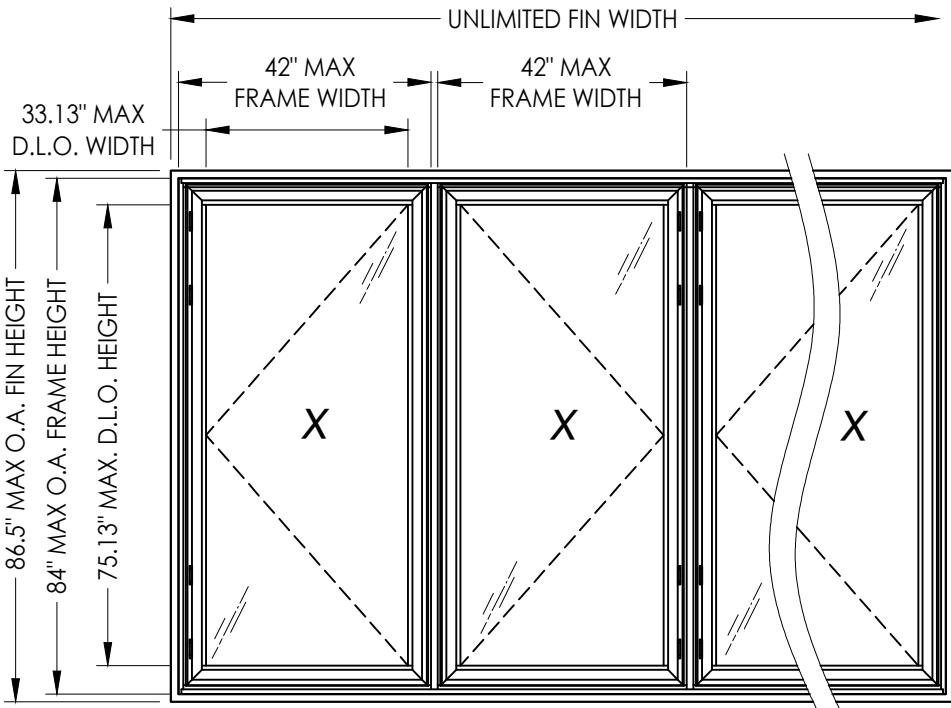
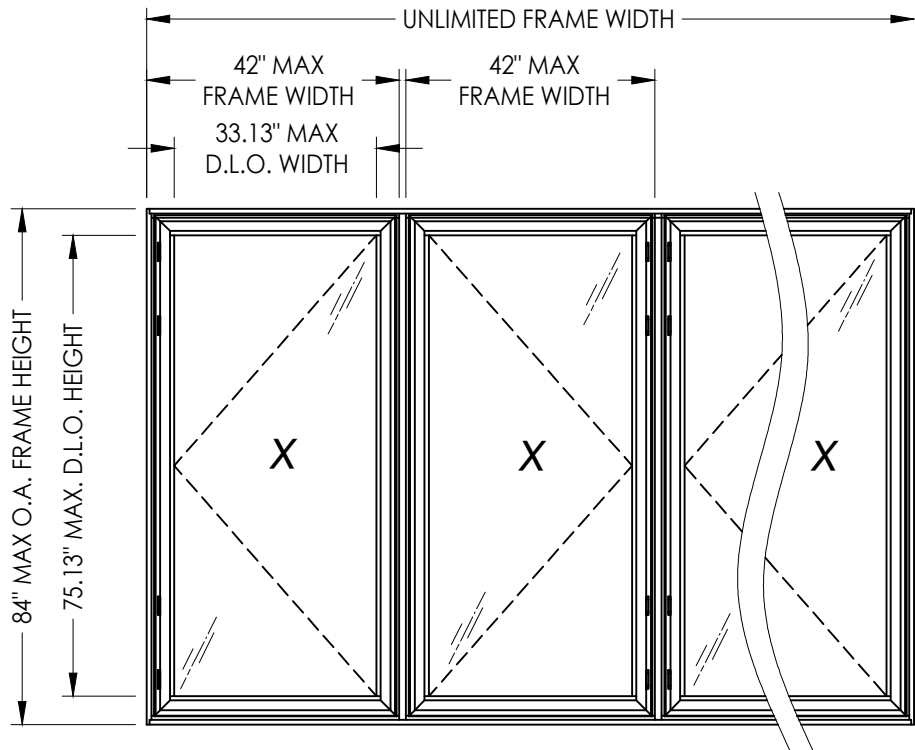
Series 3800-T w/ Series 350-T Aluminum Casement Window w/ Thermal Break Frame "NON-IMPACT"

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. 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	Elevations
3	Horizontal and vertical cross sections
4	Horizontal and vertical cross sections
5	Horizontal cross sections
6	Vertical cross sections
7	Buck anchoring
8	Frame anchoring
9	Buck anchoring
10	Frame anchoring
11	Bill of materials, components and glazing detail



OVERALL FIN DIMENSION	OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
UNLIMITED X 67.5"	UNLIMITED X 65"	33.63" X 56.63"	G1	+65.0	-65.0
UNLIMITED X 86.5"	UNLIMITED X 84"	33.13" X 75.13"	G1	+65.0	-65.0

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:

FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:

TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
6	7/12/23	UPDATE TO 8TH ED. (2023) FBC
5	12/7/21	SERIES NAME CHANGE
4	8/06/20	UPDATE TO 7TH ED. (2020) FBC
3	8/07/17	UPDATE TO 6TH ED. (2017) FBC
2	8/22/16	RENUMBER DRAWINGS
1	1/22/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 10/23/13

SCALE: N.T.S.

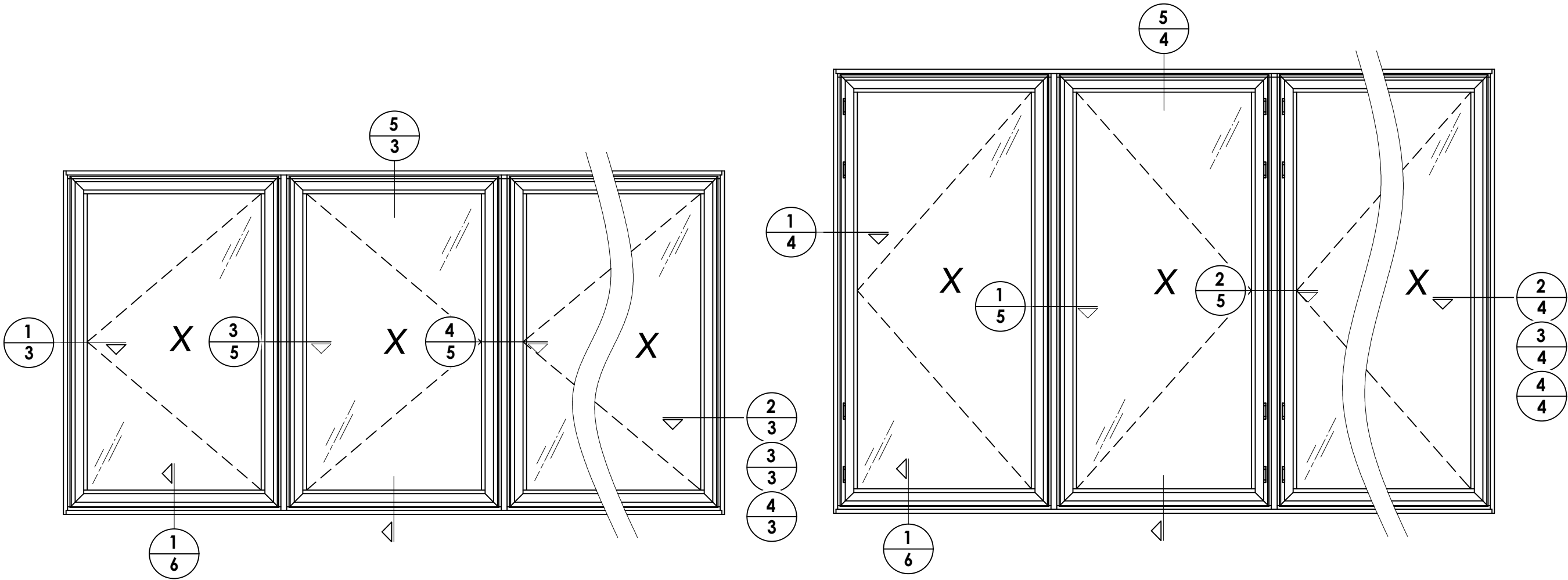
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-14904.2

SHEET 1 OF 11

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



HARDWARE TABLE			
HINGE			
Qty.	Description	Height	Snubbers
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"	

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

FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:
ELEVATIONS

6	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
5	12/7/21	SERIES NAME CHANGE	LFS	LFS
4	8/06/20	UPDATE TO 7th ED. (2020)	FBC	DAC
3	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
2	8/22/16	RENUMBER DRAWINGS	LFS	LFS
1	1/22/15	UPDATE TO 5TH ED. (2014)	FBC	LFS
NO.	DATE			BY
REVISIONS				

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

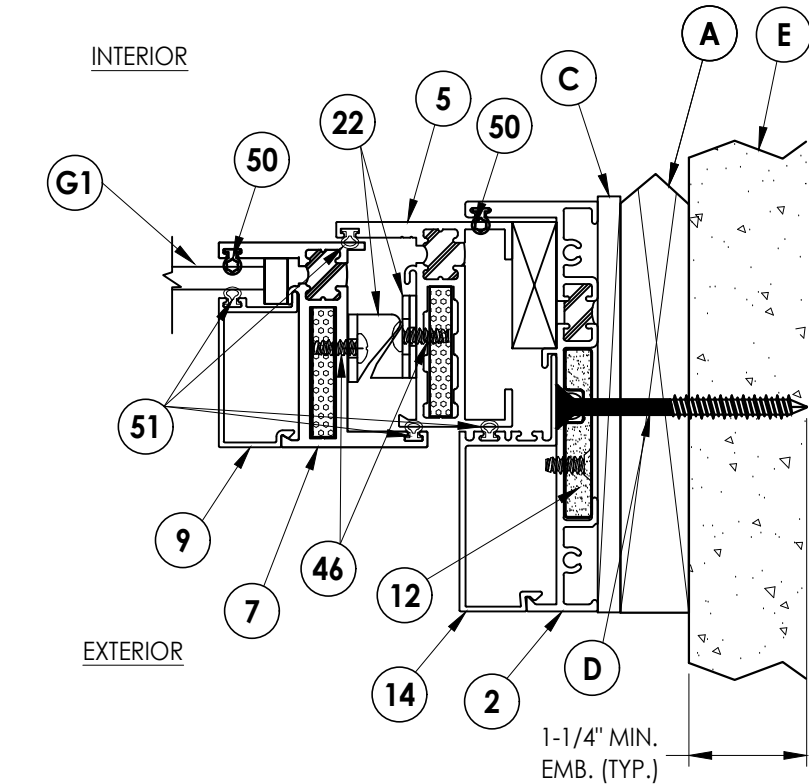
CHK. BY: LFS

DRAWING NO.: FL-14904.2

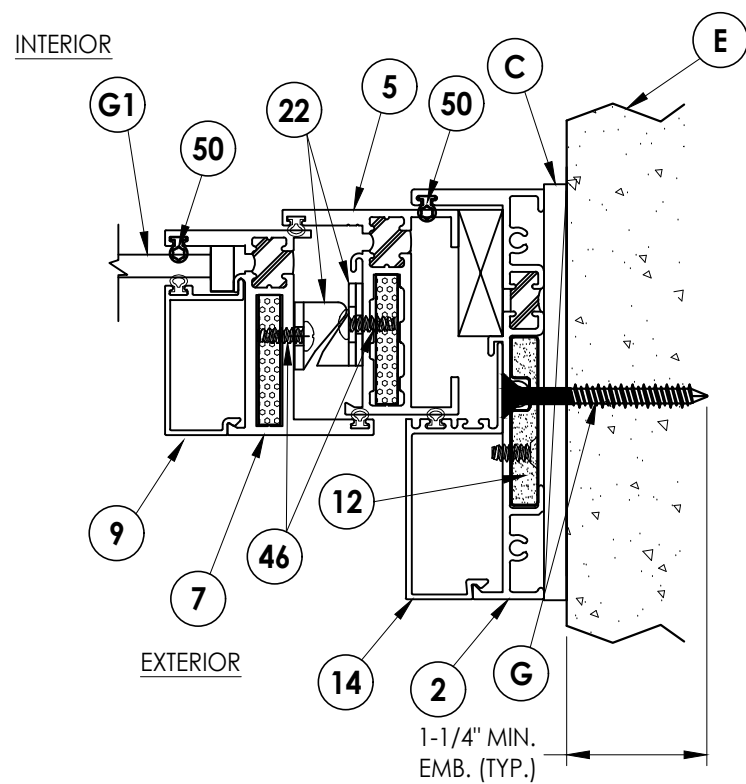
SHEET 2 OF 11

© 2013 R.W. BUILDING CONSULTANTS INC.

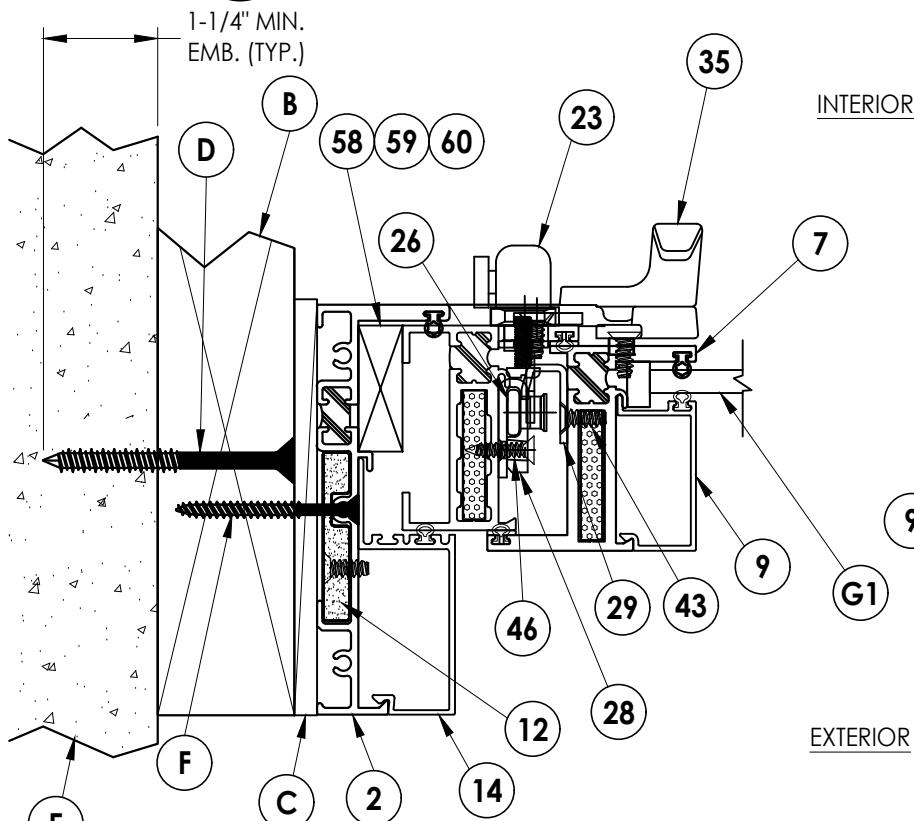
Z:\2023 FBC Drawings\Fleetwood Windows & Doors\FL-14904 R9 Casement\FL-14904.1-6.dwg



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



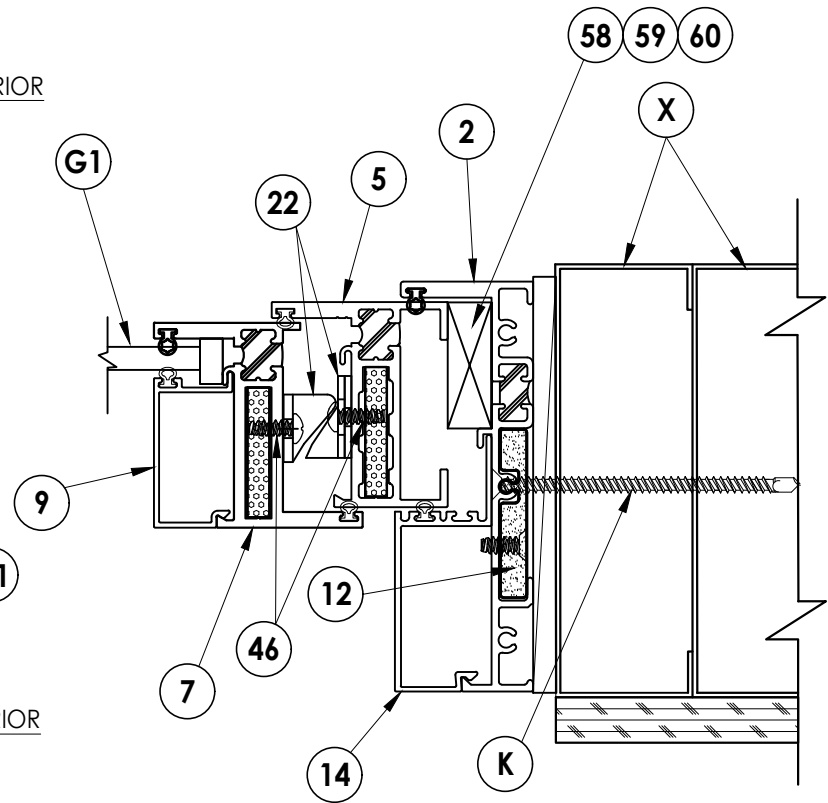
4 **HORIZONTAL CROSS SECTION**
3 Shown w/ Direct to Masonry option



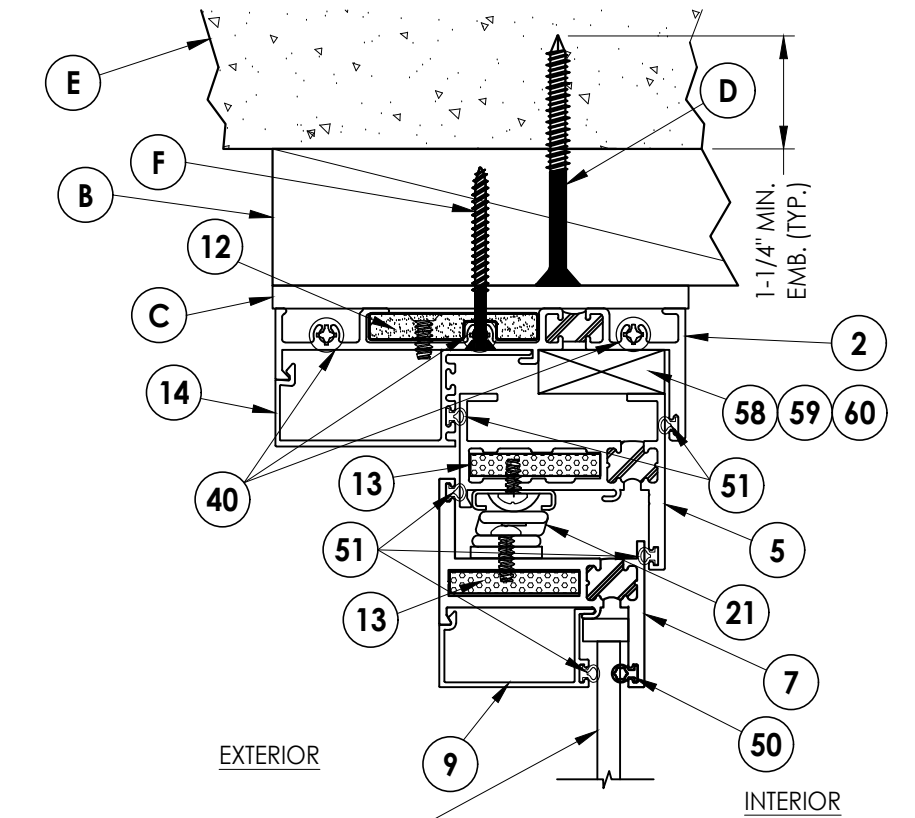
1 **HORIZONTAL CROSS SECTION**
3 Shown w/ 2X Buck Construction

NOTE:

1. Sheet Metal Screws must penetrate a min. of 3 threads through at least two (2) sheets of metal.



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



5 **VERTICAL CROSS SECTION**
3 Shown w/ 2X Buck Construction

Documents Prepared By:

Lyndon F. Schmidt

P.E. No. 43409

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

PRODUCT:
FLEETWOOD WINDOWS AND DOORS

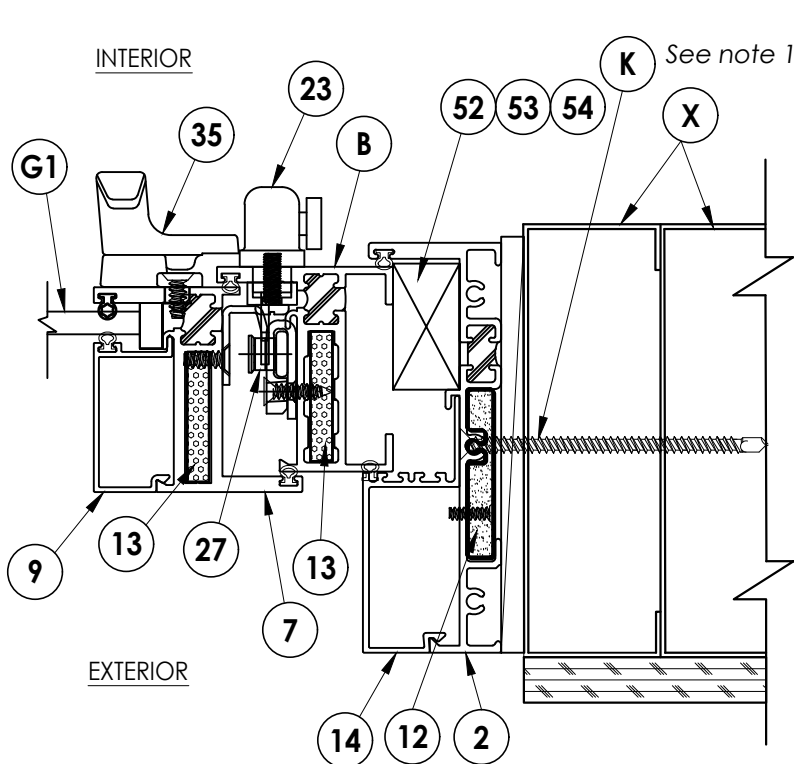
PART OR ASSEMBLY:

HORIZONTAL AND VERTICAL
CROSS SECTIONS

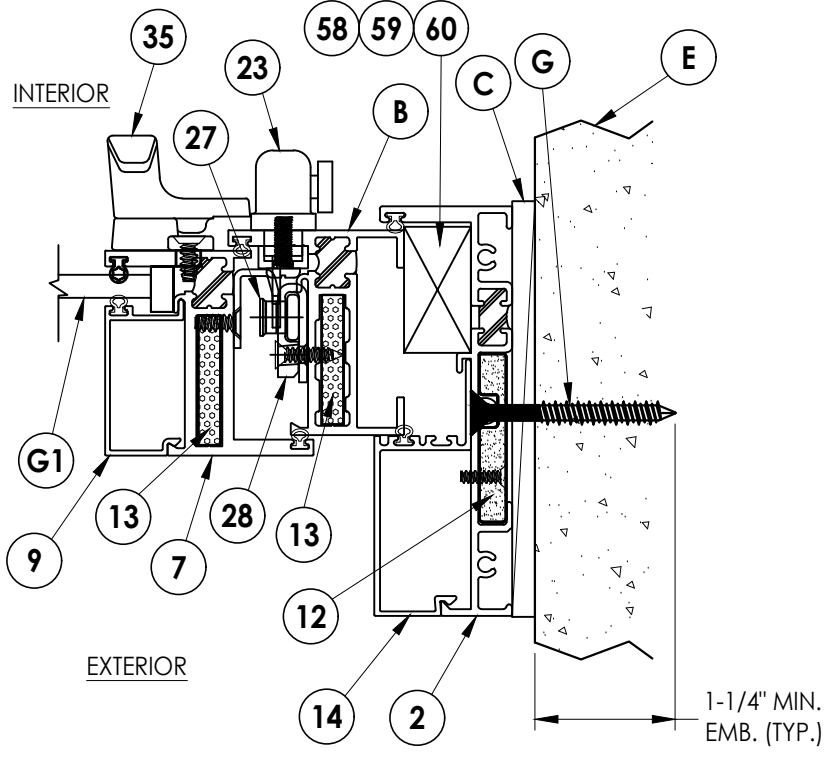
NO.	DATE	REVISIONS	BY
6	7/12/23	UPDATE TO 8TH ED. (2023) FBC	LFS
5	12/7/21	SERIES NAME CHANGE	LFS
4	8/06/20	UPDATE TO 7th ED. (2020) FBC	DAC
3	8/07/17	UPDATE TO 6TH ED. (2017) FBC	LFS
2	8/22/16	RENUMBER DRAWINGS	LFS
1	1/22/15	UPDATE TO 5TH ED. (2014) FBC	LFS

DATE: 10/23/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14904.2
SHEET 3 OF 11

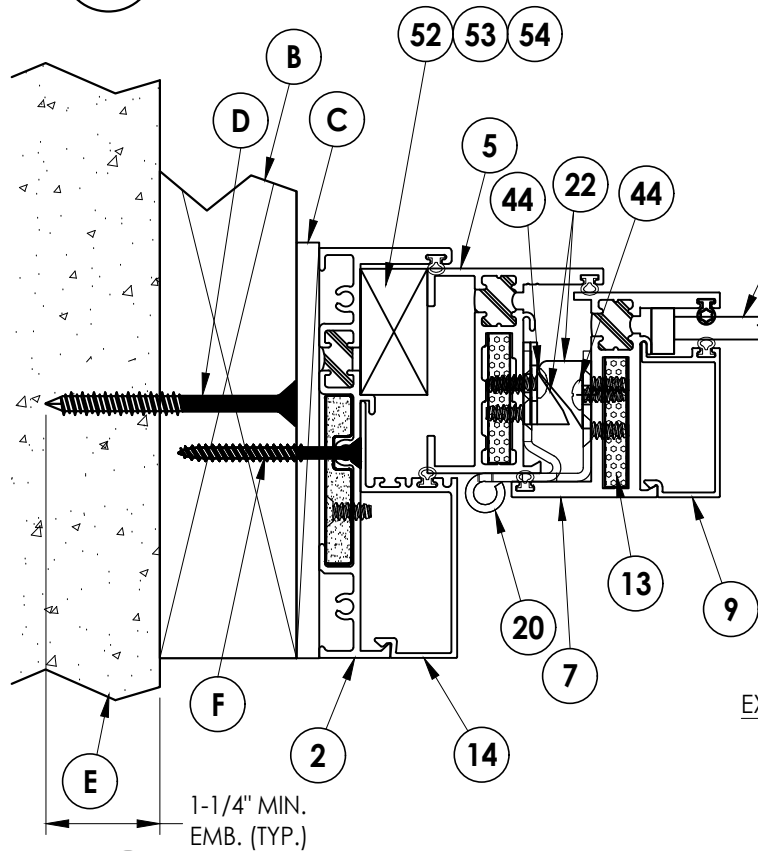
Z:\2023 FBC Drawings\Fleetwood Windows & Doors\FL-14904 R9 Casement\FL-14904.1-6.dwg



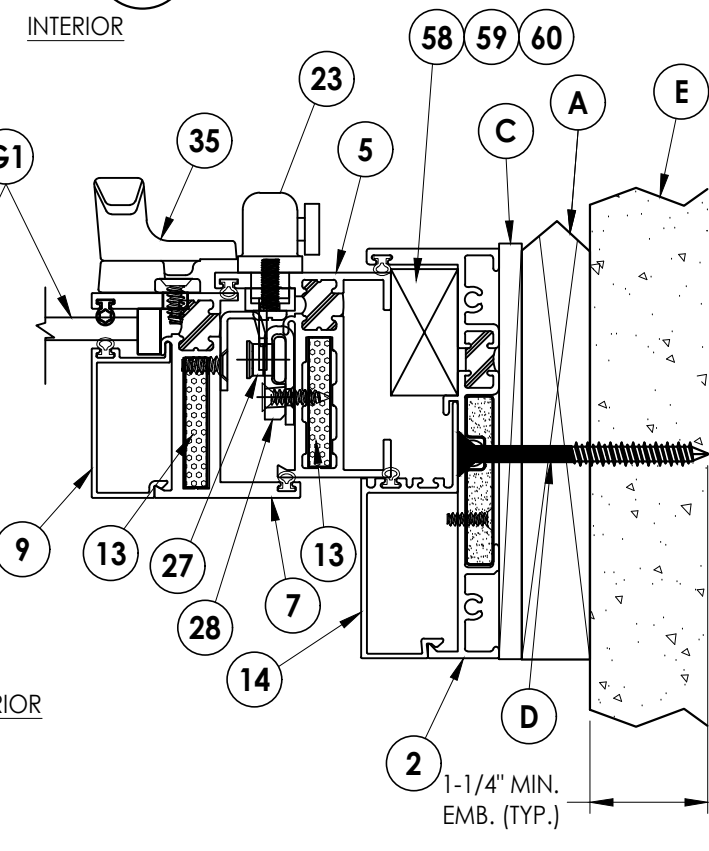
3 **HORIZONTAL CROSS SECTION**
4 Shown w/ Steel Stud option



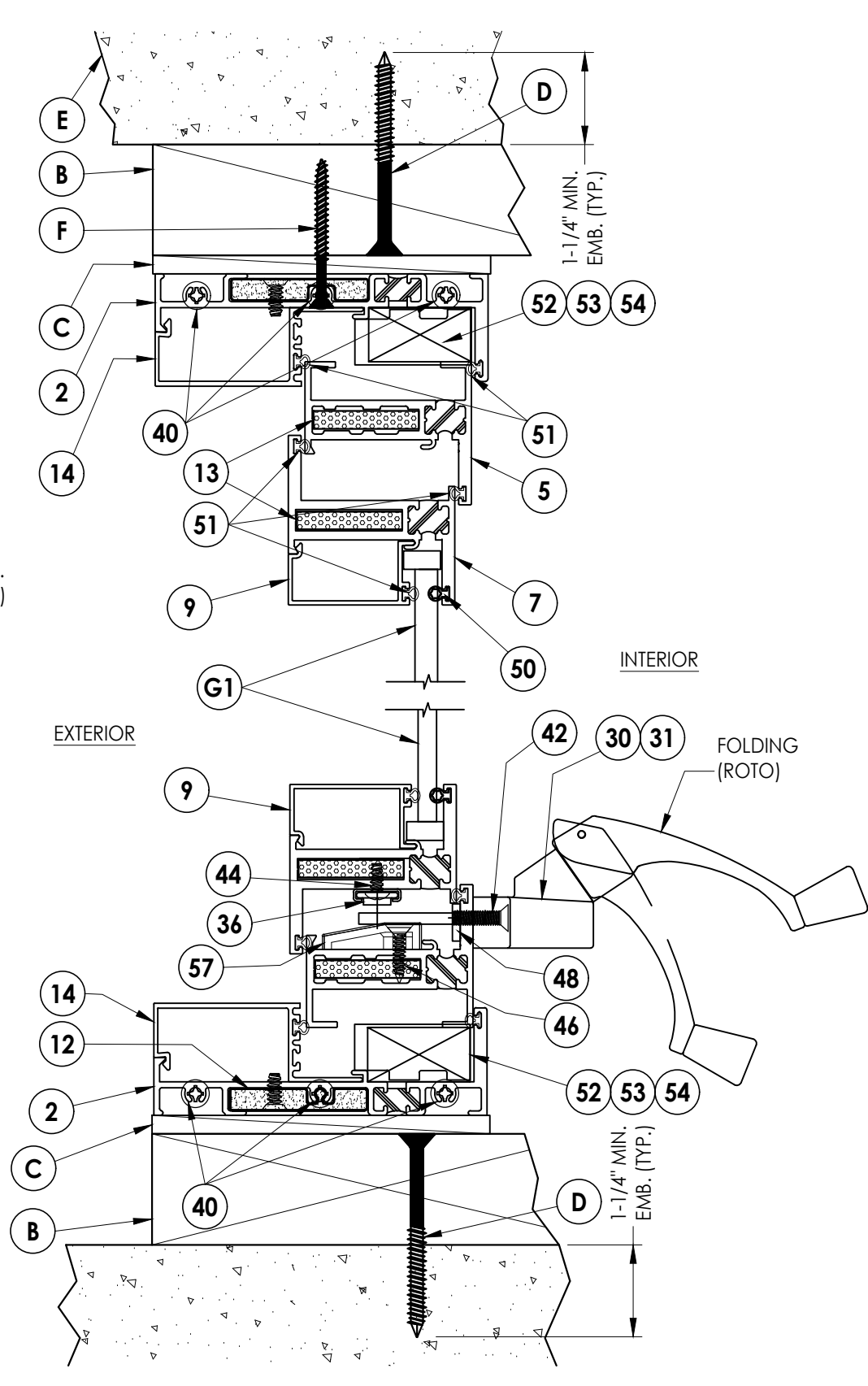
4 **HORIZONTAL CROSS SECTION**
4 Shown w/ Direct to Masonry option



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



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



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

NOTE:

1. Sheet Metal Screws must penetrate a min. of 3 threads through at least two (2) sheets of metal.

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

PRODUCT:
FLEETWOOD WINDOWS AND DOORS

NO.	DATE	UPDATE TO 5TH ED. (2014)	FBC	LFS	BY
6	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
5	12/7/21	SERIES NAME CHANGE	FBC	LFS	
4	8/06/20	UPDATE TO 7th ED. (2020)	FBC	DAC	
3	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
2	8/22/16	RENUMBER DRAWINGS	FBC	LFS	
1	1/22/15	UPDATE TO 5TH ED. (2014)	FBC	LFS	

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

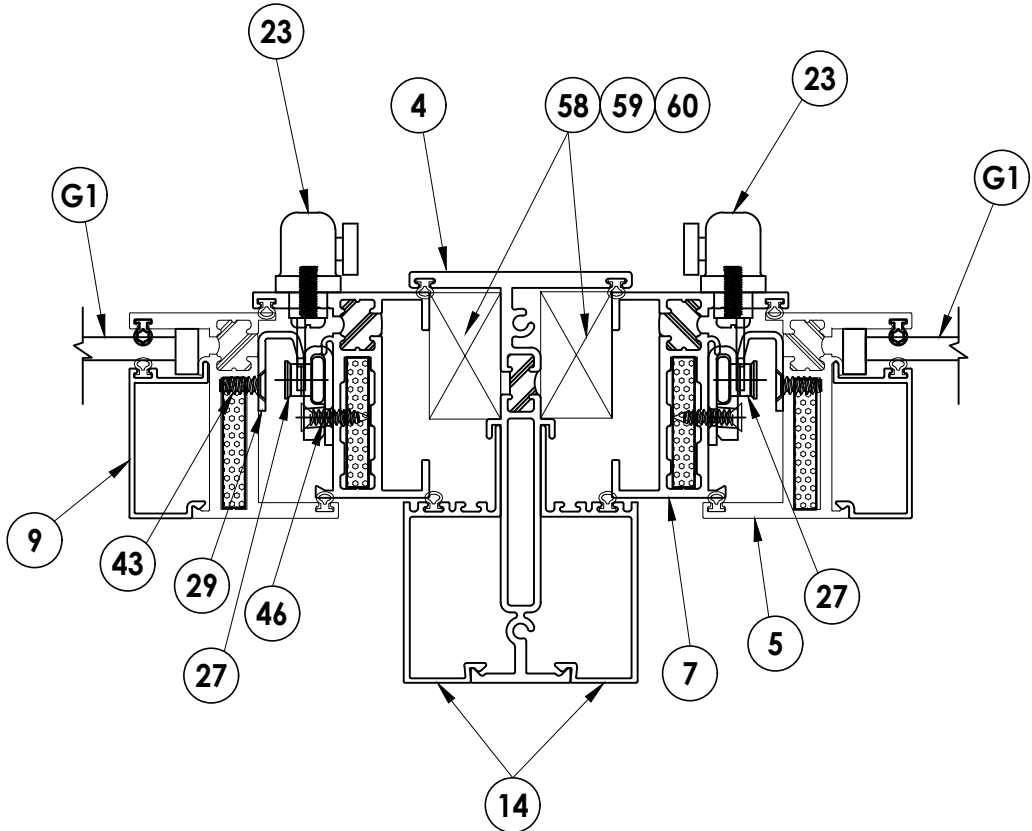
DRAWING NO.: FL-14904.2

SHEET 4 OF 11

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

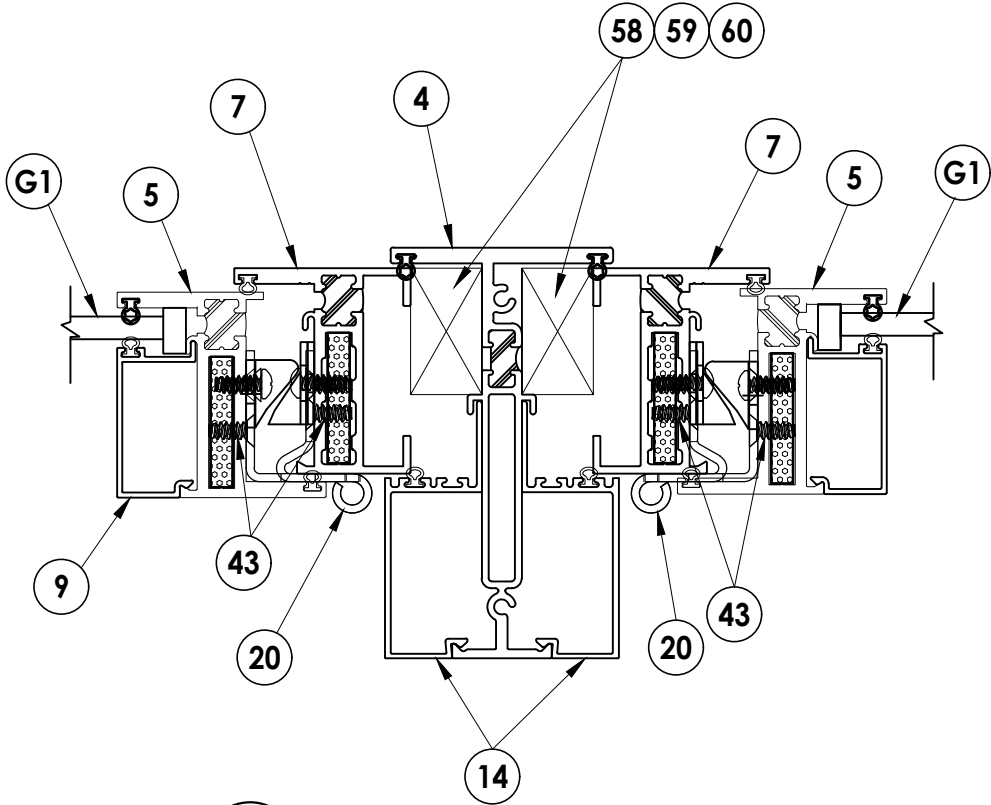
PART OR ASSEMBLY:
HORIZONTAL AND VERTICAL
CROSS SECTIONS

Z:\2023 FBC Drawings\Fleetwood Windows & Doors\FL-14904 R9 Casement\FL-14904.1-6.dwg



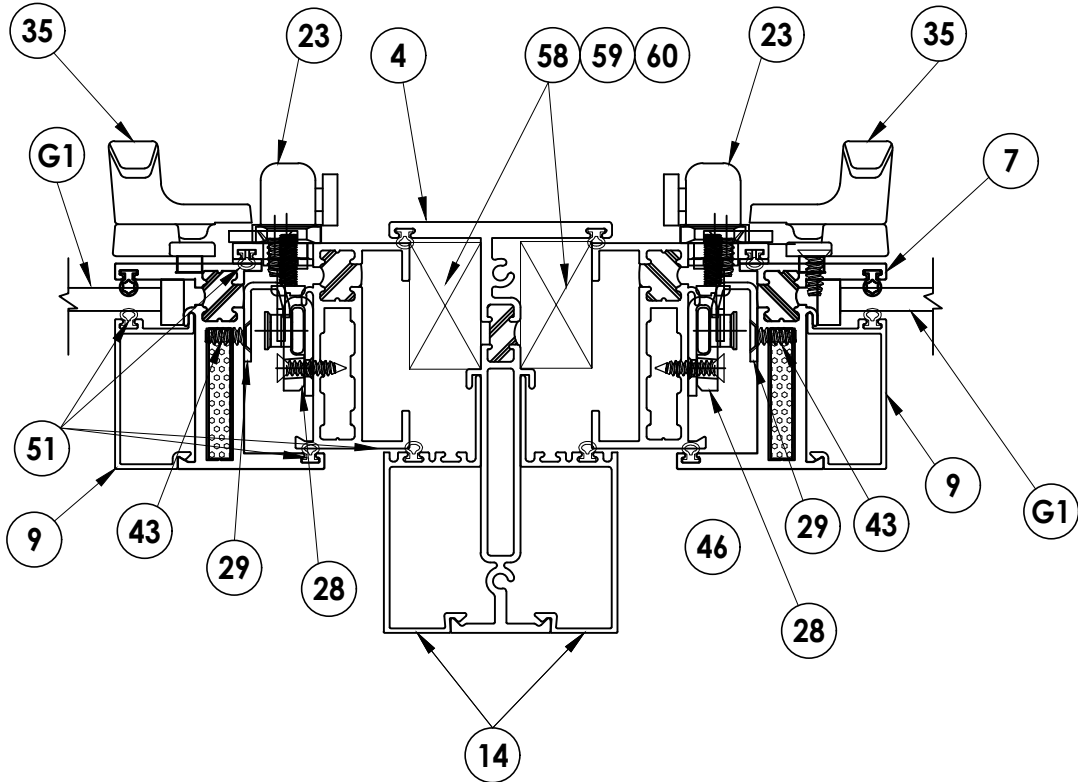
1
5
HORIZONTAL CROSS SECTION

INTERIOR

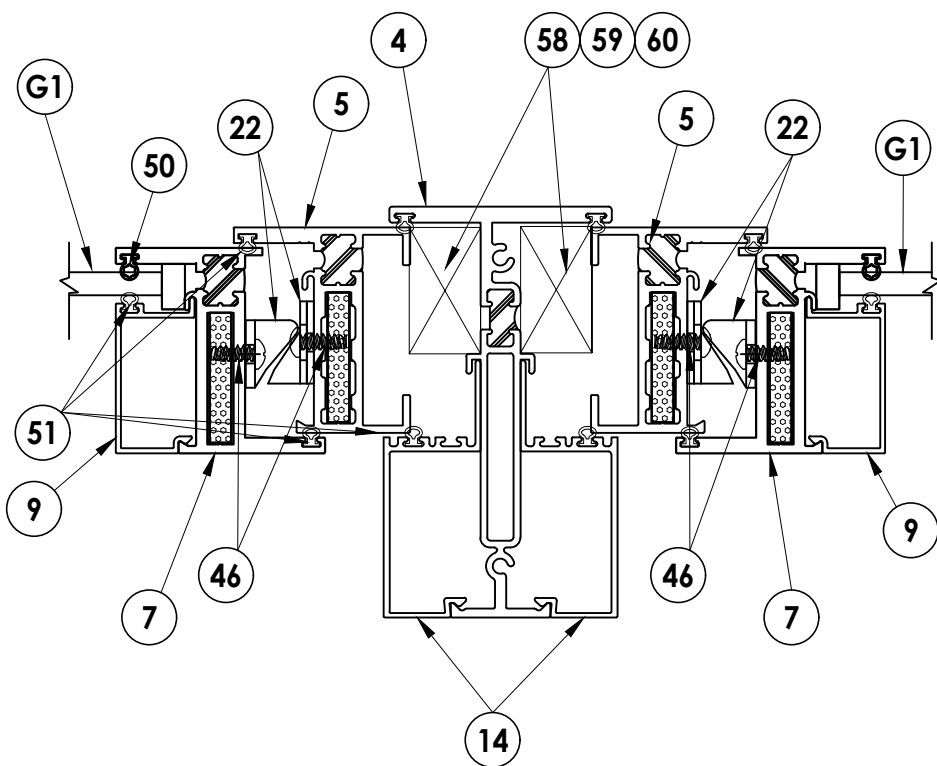


2
5
HORIZONTAL CROSS SECTION

EXTERIOR



3
5
HORIZONTAL CROSS SECTION



4
5
HORIZONTAL CROSS SECTION

Documents Prepared By:

Lyndon F. Schmidt

P.E. No. 43409

PRODUCT:

FLEETWOOD WINDOWS AND DOORS

BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

FBPE Registry No. 9813

PART OR ASSEMBLY:

HORIZONTAL
CROSS SECTIONS

DATE: 10/23/13

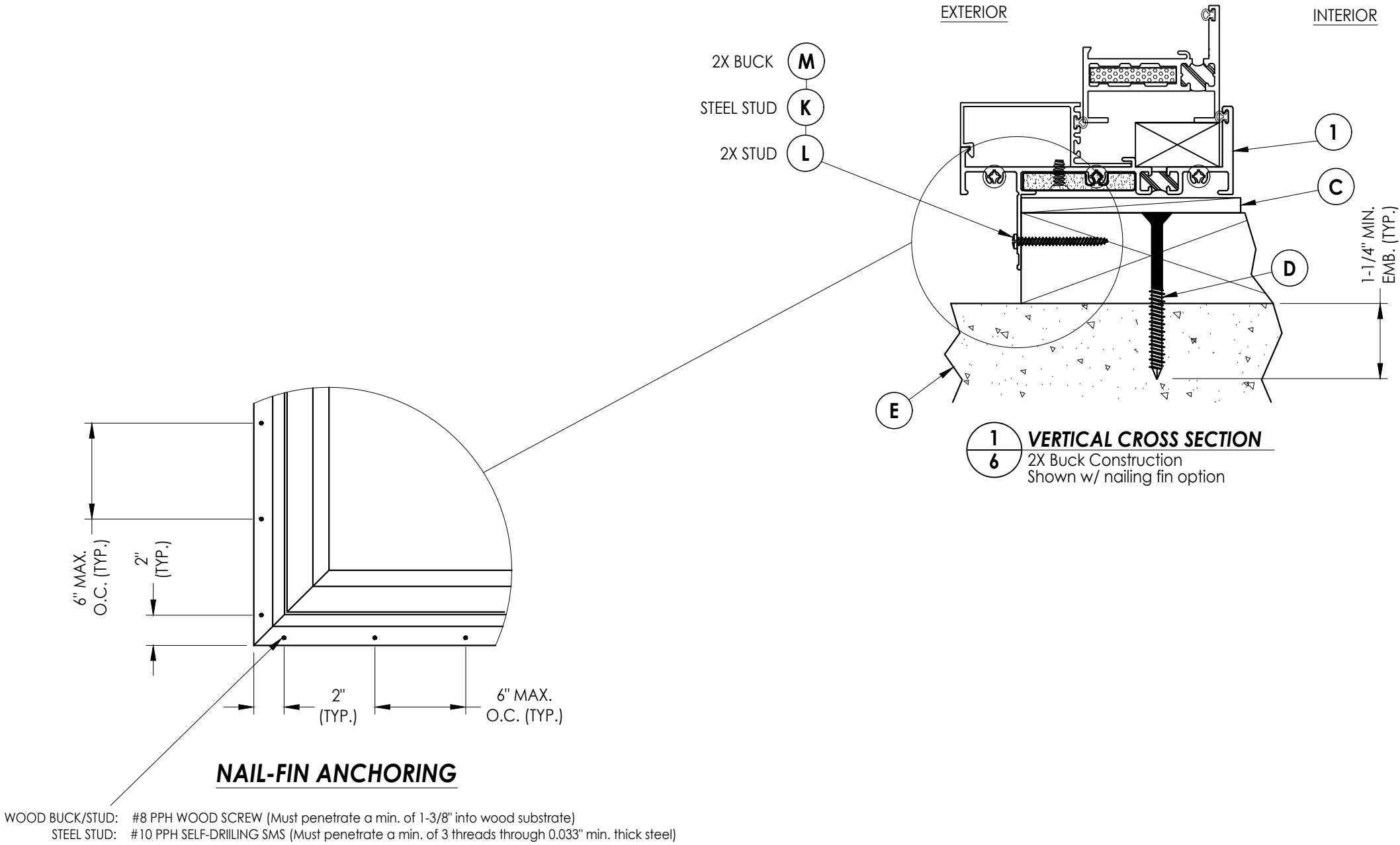
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-14904.2

SHEET 5 OF 11

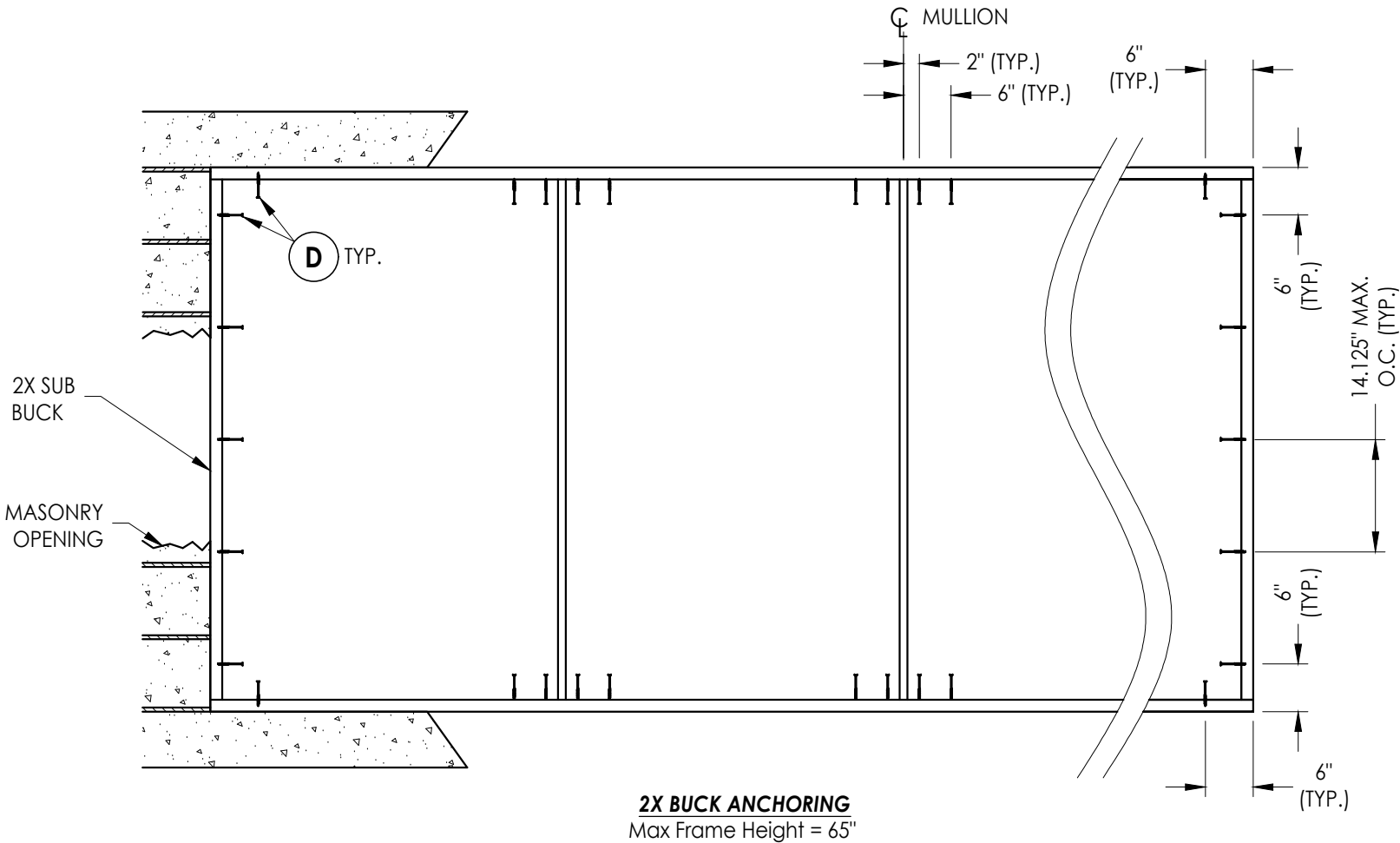


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409						BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813					
PRODUCT: FLEETWOOD WINDOWS AND DOORS						PART OR ASSEMBLY: VERTICAL CROSS SECTIONS					
6	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS							
5	12/7/21	SERIES NAME CHANGE		LFS							
4	8/06/20	UPDATE TO 7th ED. (2020)	FBC	DAC							
3	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS							
2	8/22/16	RENUMBER DRAWINGS		LFS							
1	1/22/15	UPDATE TO 5TH ED. (2014)	FBC	LFS							
NO.	DATE			BY							
DATE: 10/23/13											
SCALE: N.T.S.											
DWG. BY: JK											
CHK. BY: LFS											
DRAWING NO.: FL-14904.2											
SHEET 6 OF 11											

CONCRETE ANCHOR NOTES:

- 1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- 2. 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.
- 3. Concrete anchor table:

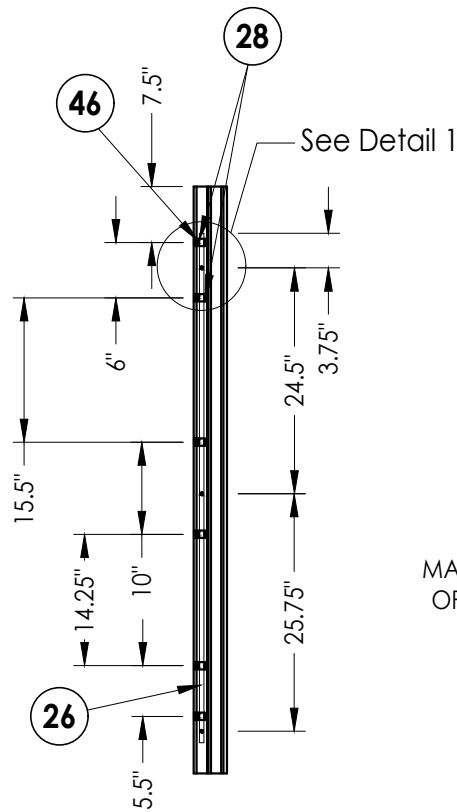
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"



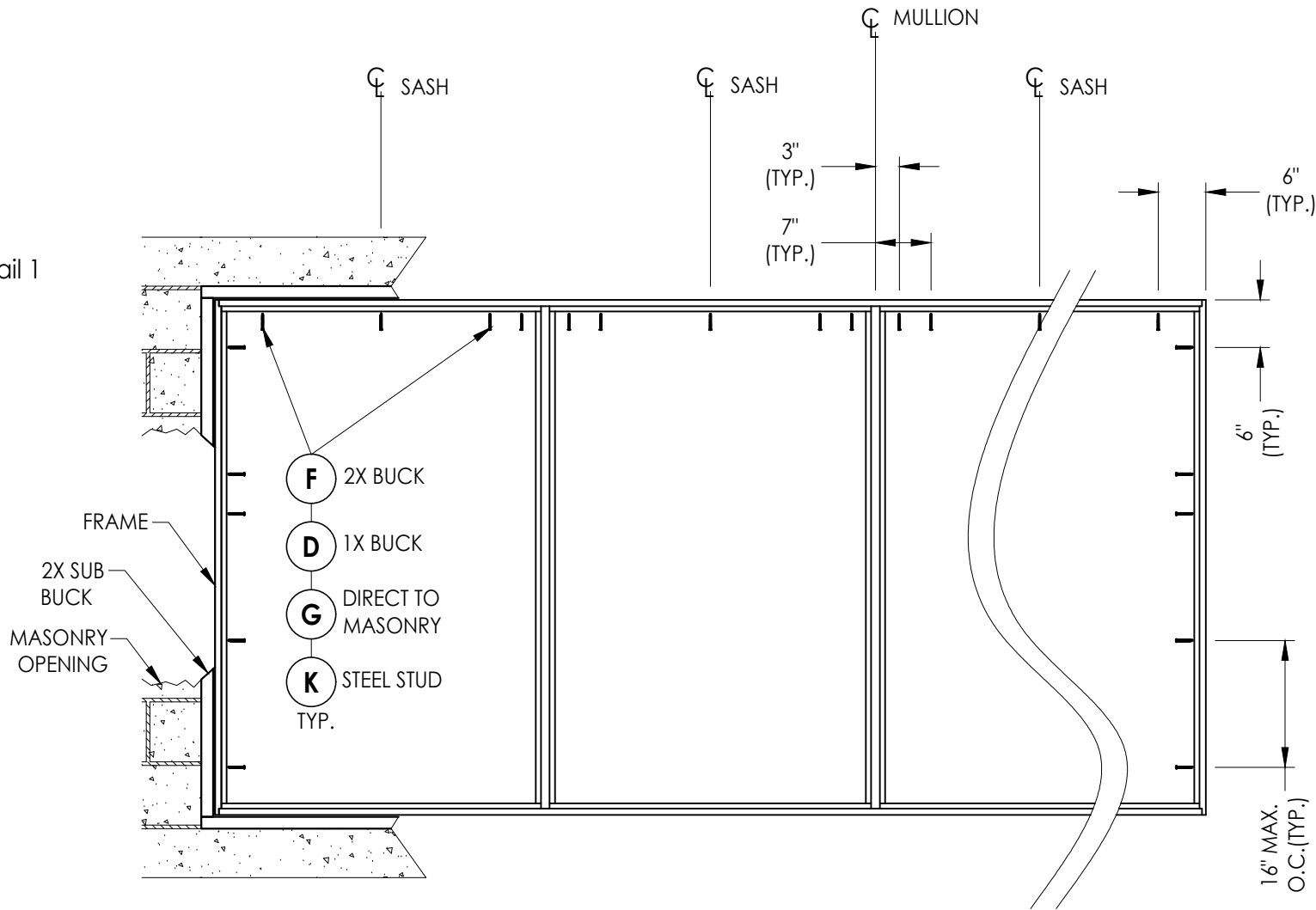
2X BUCK ANCHORING
Max Frame Height = 65"

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: FLEETWOOD WINDOWS AND DOORS		LFS
RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		PART OR ASSEMBLY: BUCK ANCHORING		LFS
				LFS
				LFS
				LFS
				BY
DATE: 10/23/13		REVISIONS		
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-14904.2				
SHEET 7 OF 11				

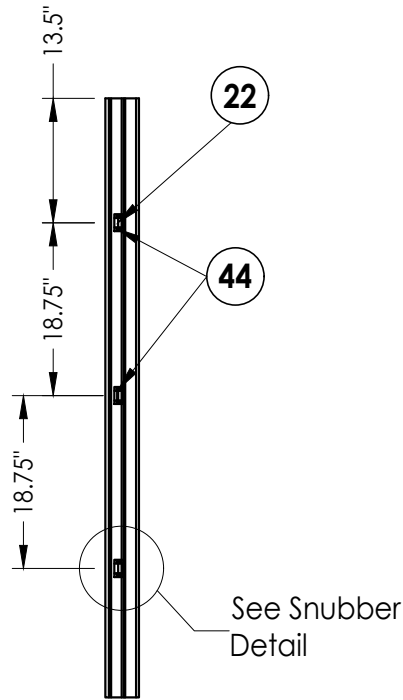
Z:\2023 FBC Drawings\Fleetwood Windows & Doors\FL-14904 R9 Casement\FL-14904.1-6.dwg



LOCK JAMB
Locking Points (3)



FRAME ANCHORING
Max Frame Height = 65"



SNUBBERS JAMB

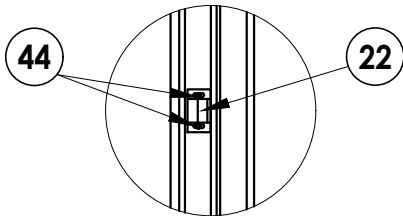
CONCRETE ANCHOR NOTES:

- 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:

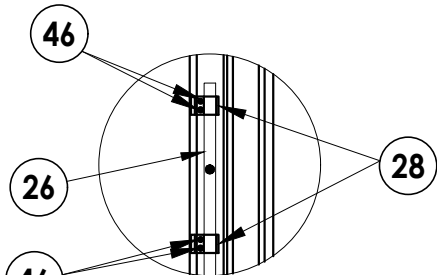
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

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.



SNUBBER DETAIL



DETAIL 1

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

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

PRODUCT:
FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	REVISIONS
6	7/12/23	UPDATE TO 8TH ED. (2023) FBC
5	12/7/21	SERIES NAME CHANGE
4	8/06/20	UPDATE TO 7TH ED. (2020) FBC
3	8/07/17	UPDATE TO 6TH ED. (2017) FBC
2	8/22/16	RENUMBER DRAWINGS
1	1/22/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 10/23/13

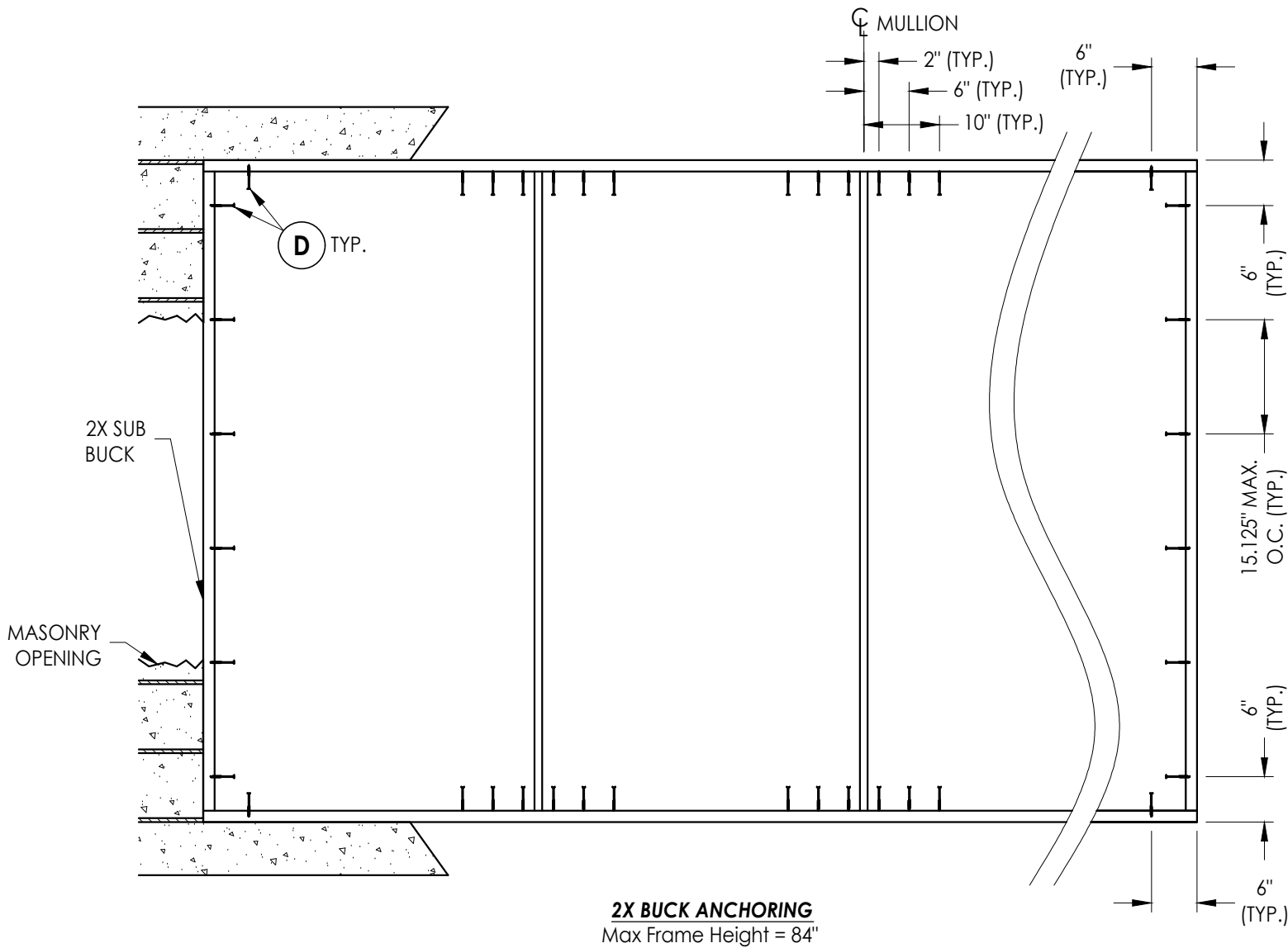
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14904.2

SHEET 8 OF 11



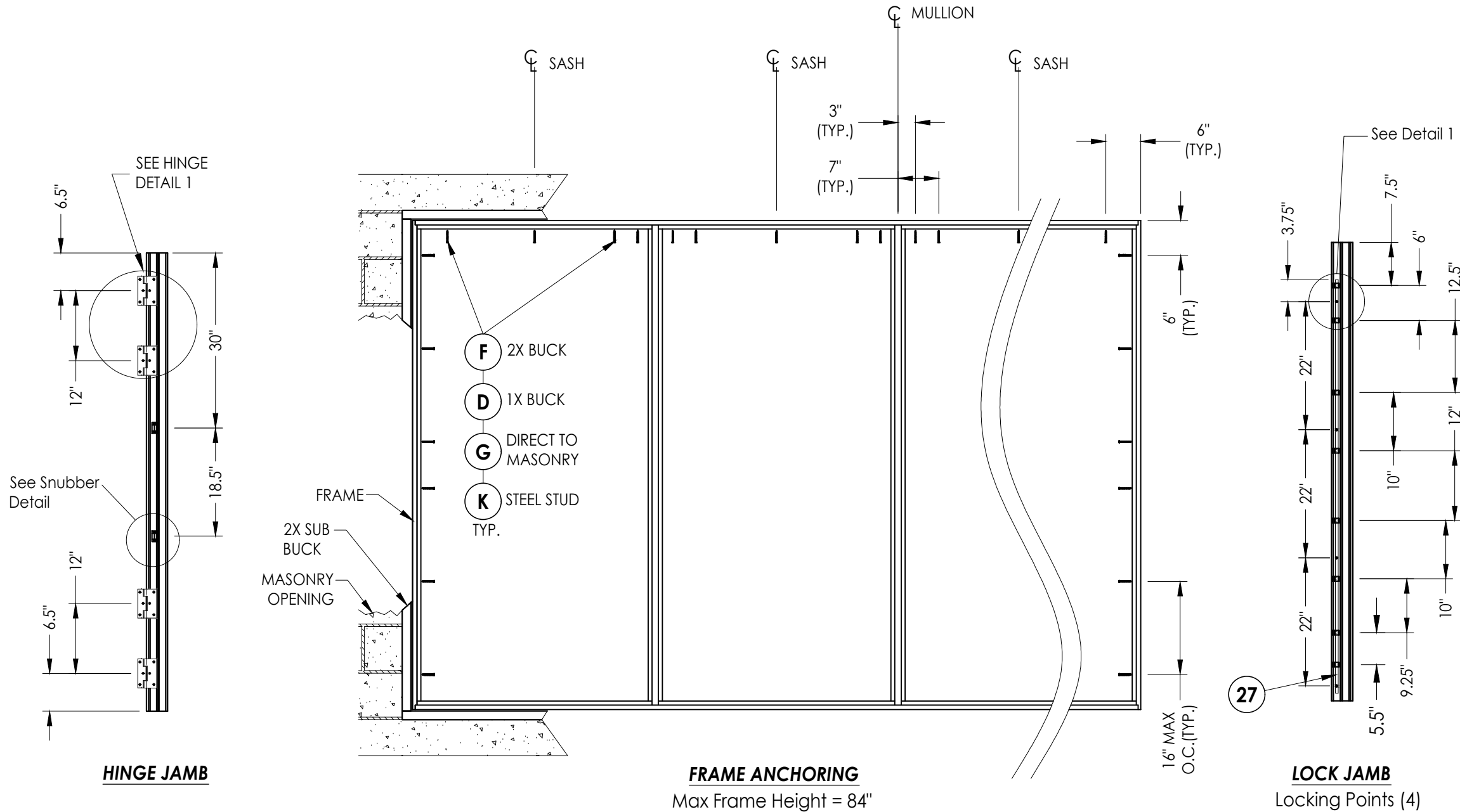
CONCRETE ANCHOR NOTES:

- 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"

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: FLEETWOOD WINDOWS AND DOORS		LFS	UPDATE TO 8TH ED. (2023)	FBC	7/12/23	6
RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		PART OR ASSEMBLY: BUCK ANCHORING		LFS	SERIES NAME CHANGE		12/7/21	5
				DAC	UPDATE TO 7TH ED. (2020)	FBC	8/06/20	4
				LFS	UPDATE TO 6TH ED. (2017)	FBC	8/07/17	3
				LFS	RENUMBER DRAWINGS		8/22/16	2
				LFS	UPDATE TO 5TH ED. (2014)	FBC	1/22/15	1
		BY	DATE					
REVISIONS								
DATE: 10/23/13								
SCALE: N.T.S.								
DWG. BY: JK								
CHK. BY: LFS								
DRAWING NO.: FL-14904.2								
SHEET 9 OF 11								

Z:\2023 FBC Drawings\Fleetwood Windows & Doors\FL-14904 R9 Casement\FL-14904.1-6.dwg



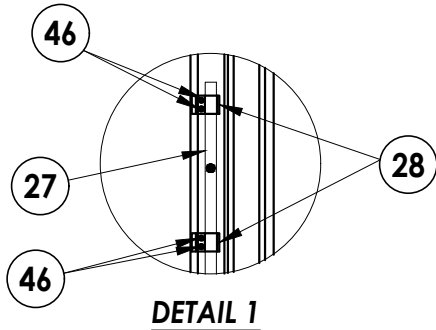
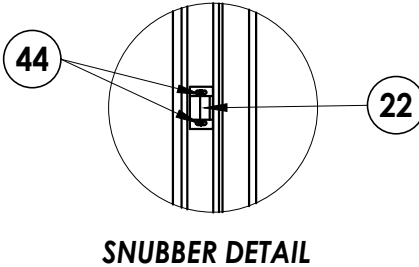
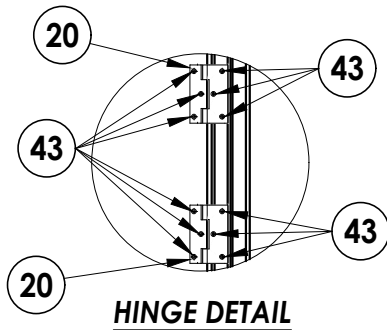
CONCRETE ANCHOR NOTES:

- 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.



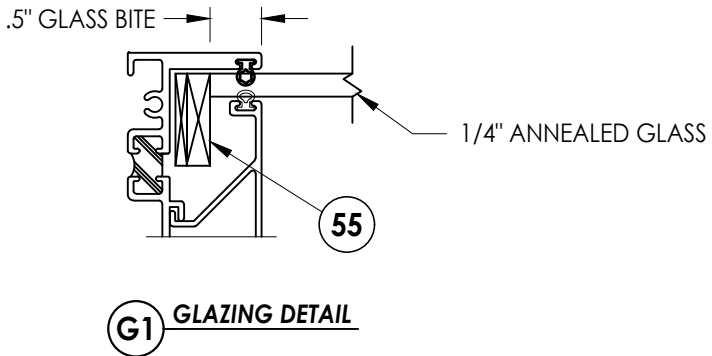
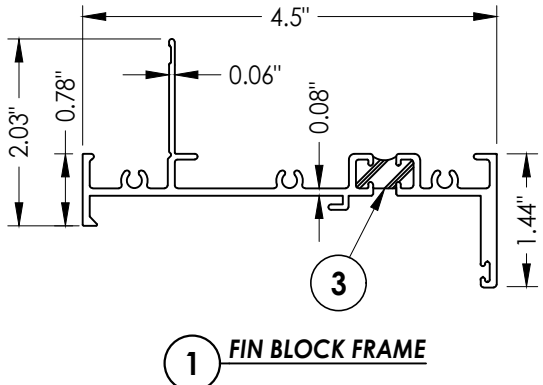
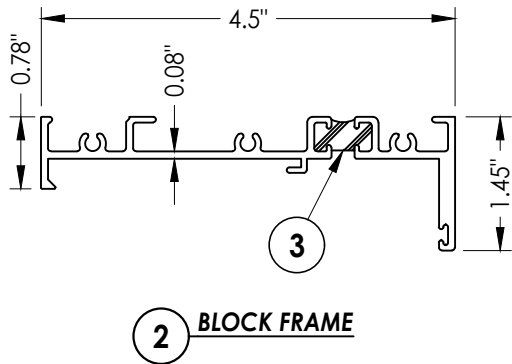
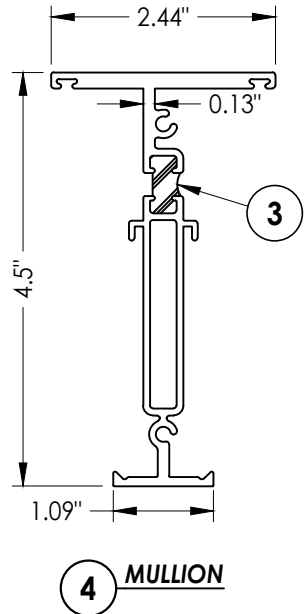
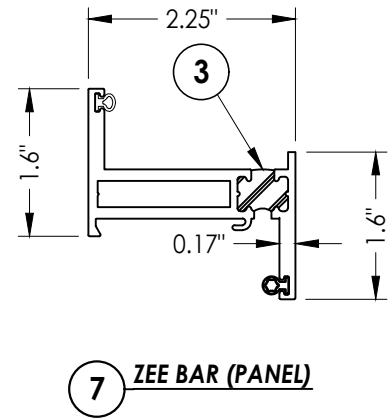
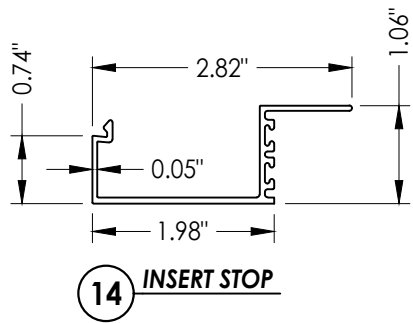
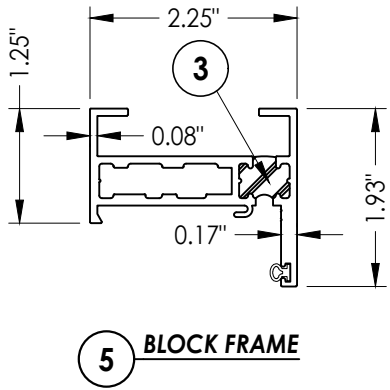
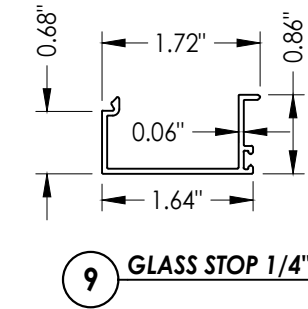
PRODUCT:		PART OR ASSEMBLY:	
FLEETWOOD WINDOWS AND DOORS		FRAME ANCHORING	
NO.	DATE	REVISIONS	BY
6	7/12/23	UPDATE TO 8TH ED. (2023)	FBC
5	12/7/21	SERIES NAME CHANGE	LFS
4	8/06/20	UPDATE TO 7TH ED. (2020)	FBC
3	8/07/17	UPDATE TO 6TH ED. (2017)	FBC
2	8/22/16	RENUMBER DRAWINGS	LFS
1	1/22/15	UPDATE TO 5TH ED. (2014)	FBC
DATE: 10/23/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14904.2			
SHEET 10 OF 11			

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

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

Z:\2023 FBC Drawings\Fleetwood Windows & Doors\FL-14904 R9 Casement\FL-14904.1-6.dwg

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
J	1/4" x 3-1/4" DeWALT OR ITW PFH CONCRETE 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.)	-
4	MULLION	6063-T6 ALUM
5	BLOCK FRAME (350-T)	6063-T6 ALUM
7	ZEE BAR (PANEL)	6063-T6 ALUM
9	GLASS STOP (1/4")	6063-T6 ALUM
12	SHEAR BLOCK	6061-T6 ALUM
13	CORNER KEY	6063-T6 ALUM
14	INSERT STOP	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	MACHINGE 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	-
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: 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: FLEETWOOD WINDOWS AND DOORS				PART OR ASSEMBLY: BILL OF MATERIALS, COMPONENTS AND GLAZING DETAIL			
6	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	REVISIONS		
5	12/7/21	SERIES NAME CHANGE	LFS	LFS			
4	8/06/20	UPDATE TO 7th ED. (2020)	FBC	DAC			
3	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
2	8/22/16	RENUMBER DRAWINGS	LFS	LFS			
1	1/22/15	UPDATE TO 5TH ED. (2014)	FBC	LFS			
NO.	DATE			BY			
DATE: 10/23/13							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-14904.2							
SHEET 11 OF 11							