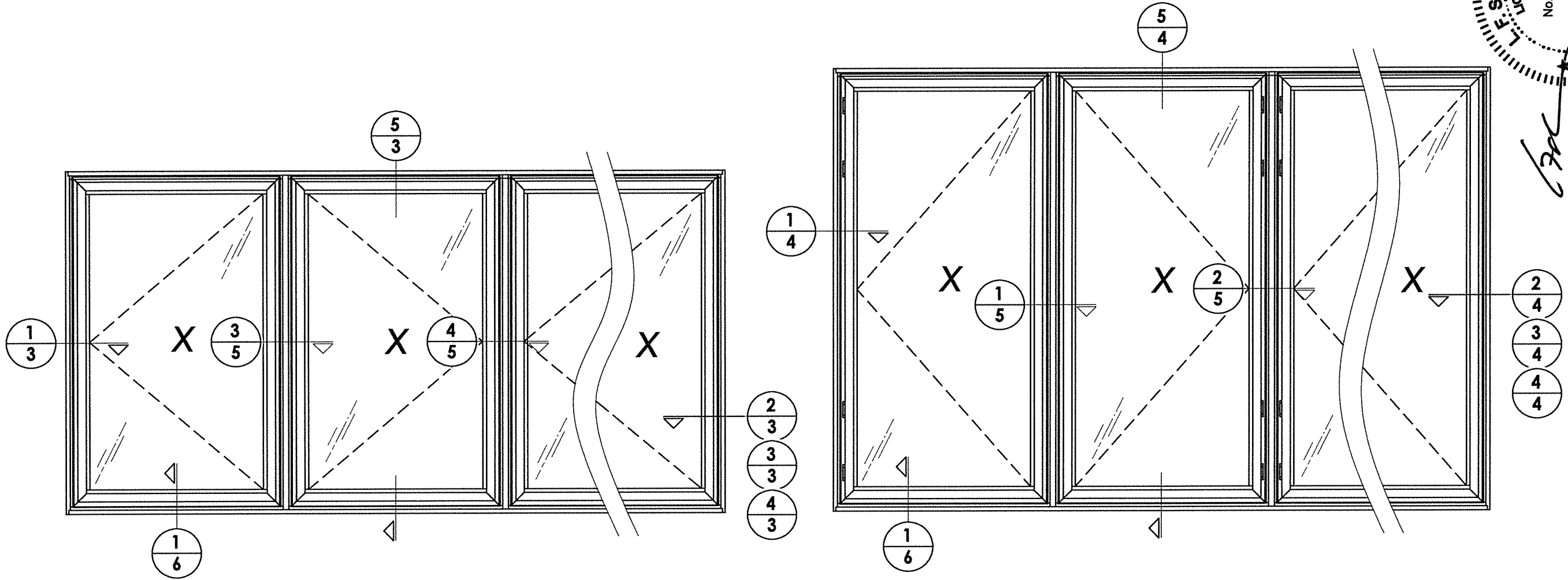
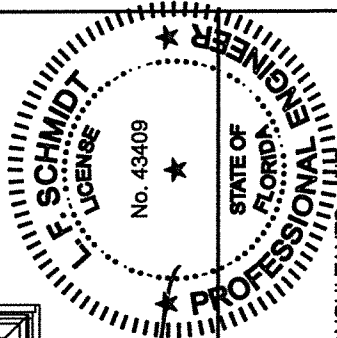




HARDWARE TABLE			
HINGE			
Qty.	Description	Height	Snubbers
4	Butt hinge	≤ 84"	Yes (2)
2	Butt hinge	≤ 50"	Yes (2)
2	4 Bar hinge	≤ 65"	Yes (3)
HANDLES			
Points	Description	Height	*Cam locks can be used in conjunction with multipoint lock or in lieu of multipoint locks
4	Multipoint	> 72"	
3	Multipoint	≤ 72"	
Qty.			
3	Cam*	≤ 65"	
1	Cam*	≤ 50"	



For

December 7, 2021
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:
ELEVATIONS

NO.	DATE	REVISIONS
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
NO.	DATE	BY

DATE: 10/23/13

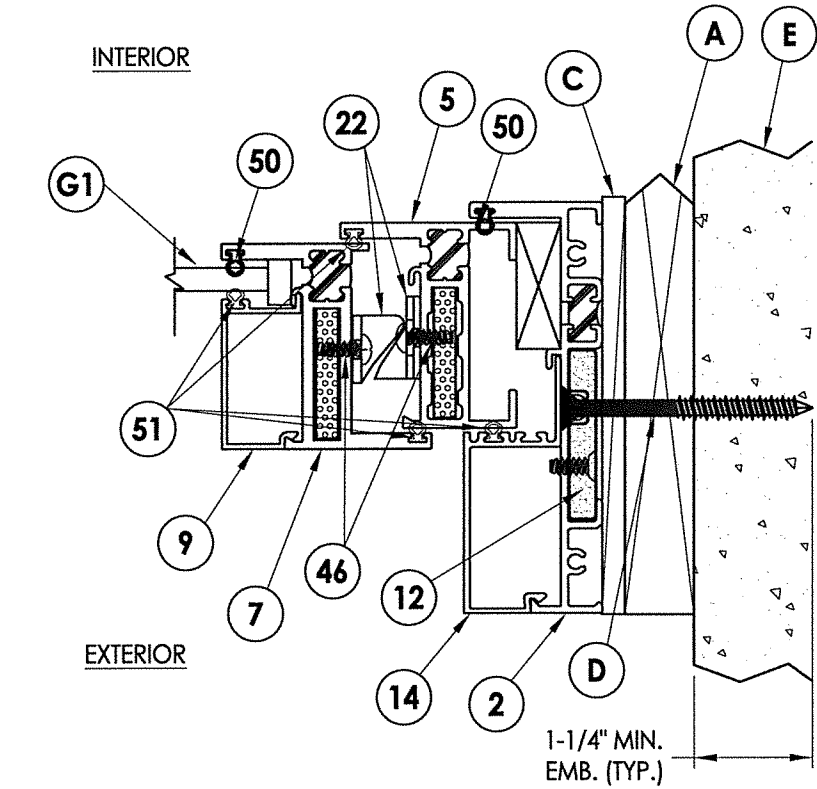
SCALE: N.T.S.

DWG. BY: JK

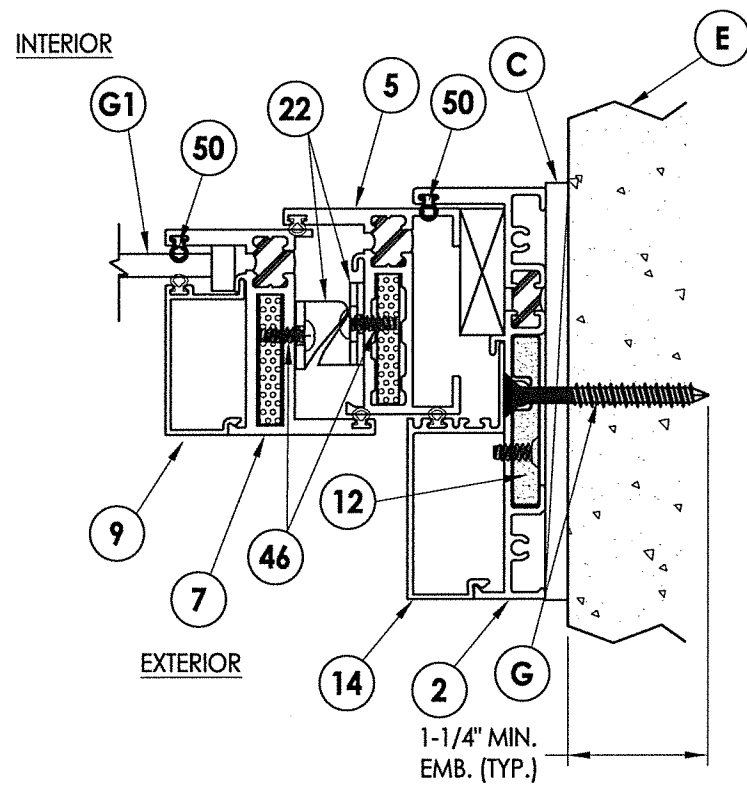
CHK. BY: LFS

DRAWING NO.:
FL-14904.2

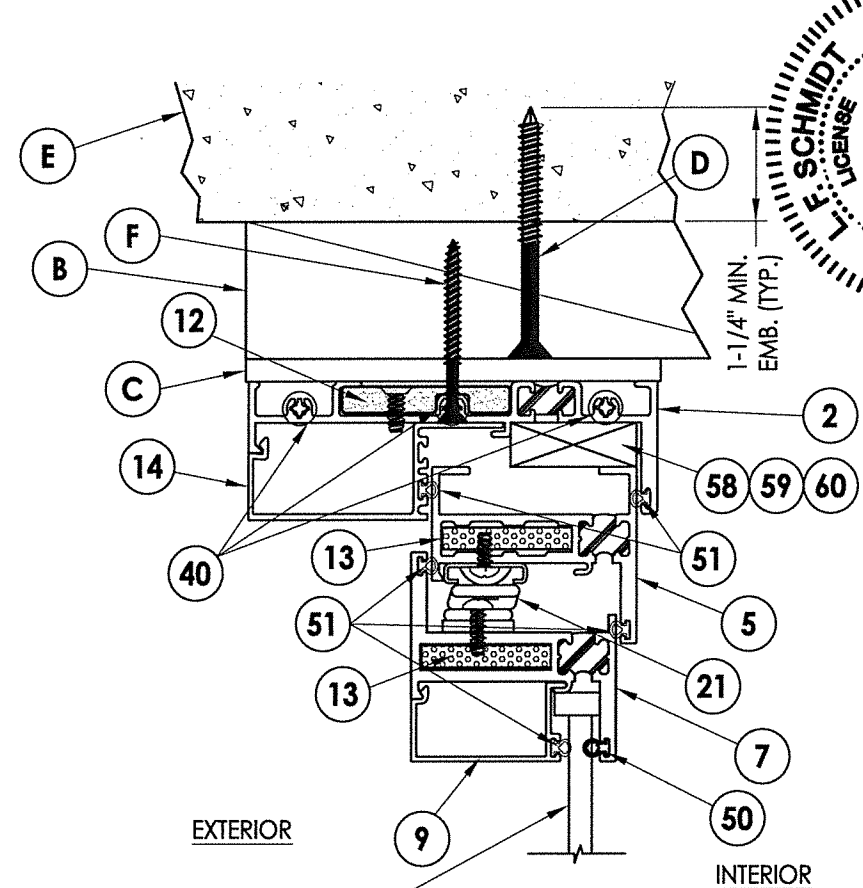
SHEET 2 OF 11



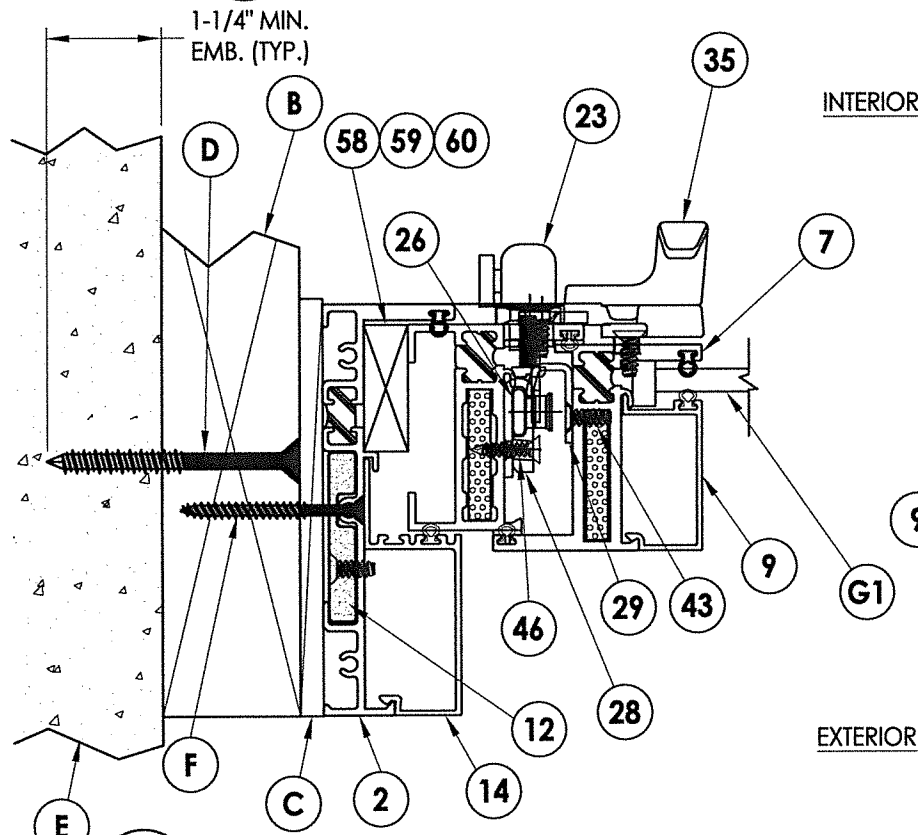
3 HORIZONTAL CROSS SECTION
3 Shown w/ 1X Sub buck option



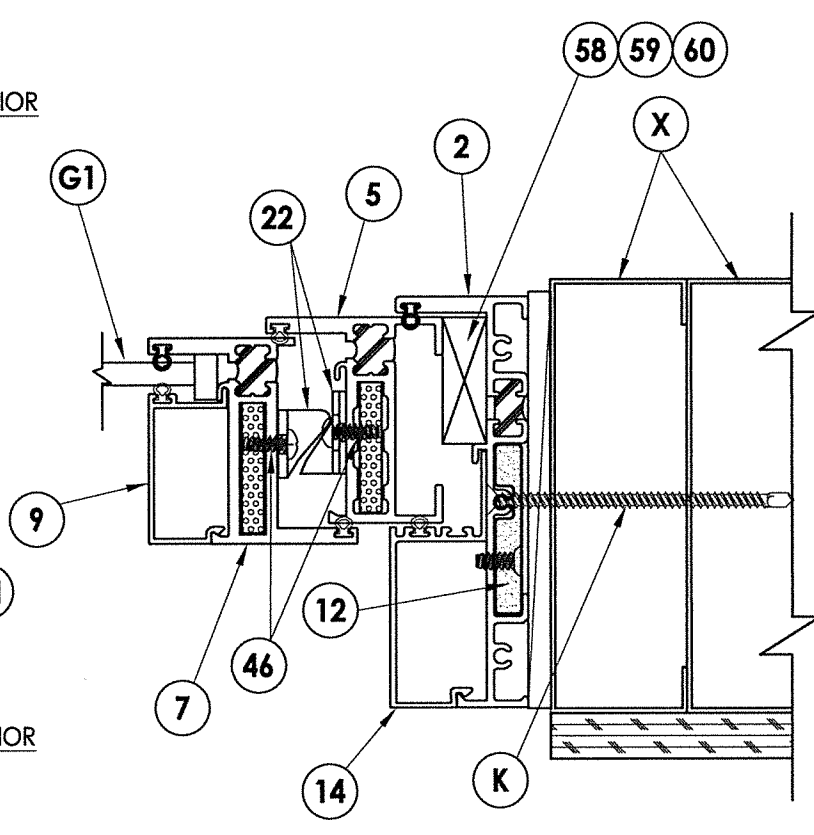
4 HORIZONTAL CROSS SECTION
3 Shown w/ Direct to Masonry option



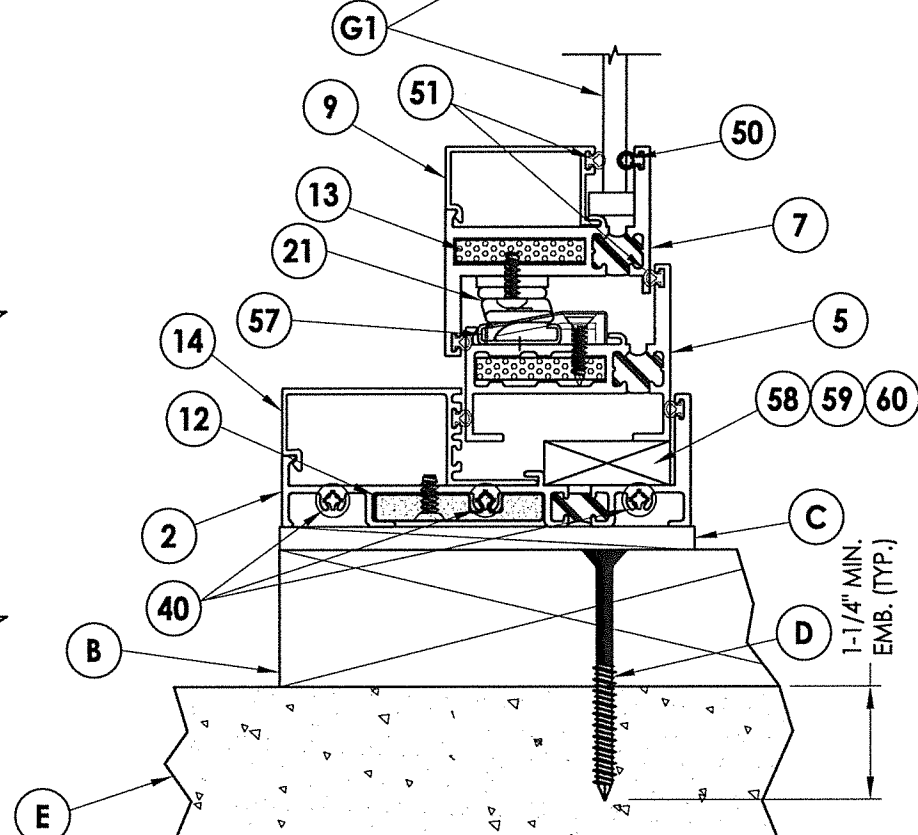
5 VERTICAL CROSS SECTION
3 Shown w/ 2X Buck Construction



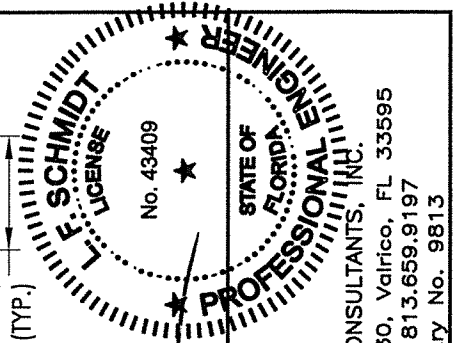
1 HORIZONTAL CROSS SECTION
3 Shown w/ 2X Buck Construction



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



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



December 7, 2021
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. 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
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 3 OF 11

[illegible]

INTERIOR

61

35

23

5

58

59

60

A

E

C

9

13

27

13

7

28

14

2

1-1/4" MIN.
EMB. (TYP.)

D

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

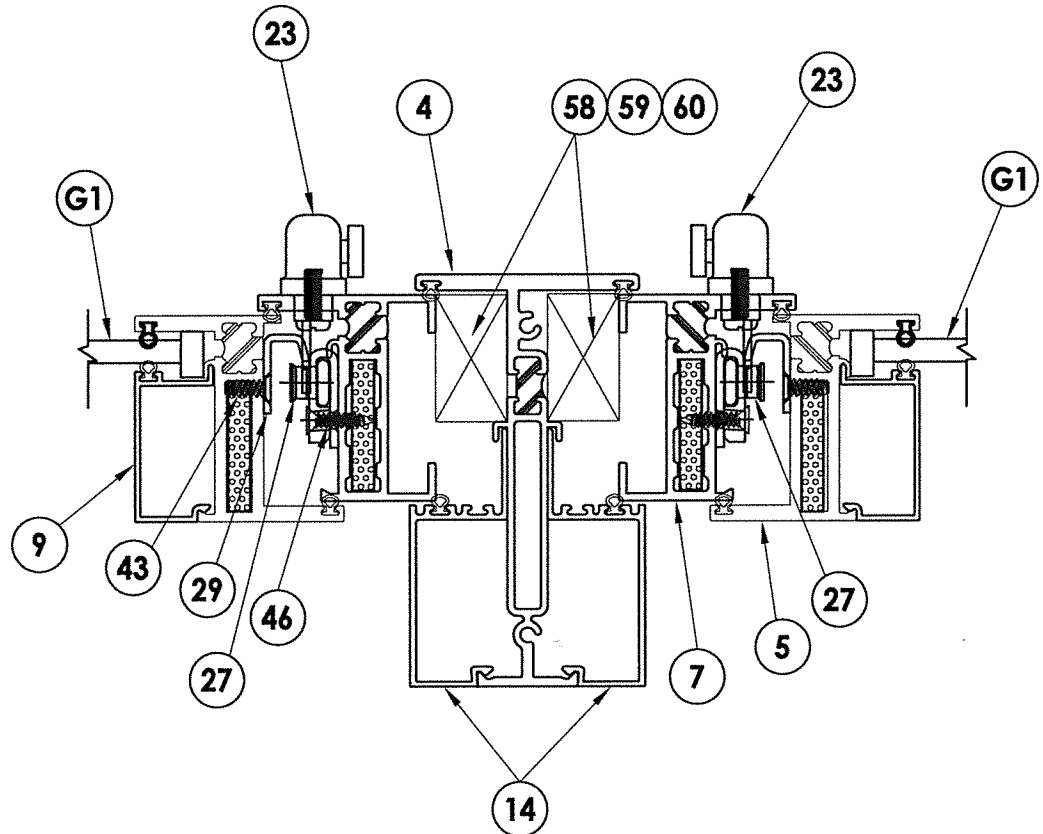
Technical cross-section diagram of a window assembly. The diagram illustrates the internal structure of the window frame and the surrounding wall. Key components are labeled with letters and numbers:

- E**: Points to the exterior wall surface.
- B**: Points to the exterior weatherstripping or seal.
- F**: Points to the exterior frame or sash.
- C**: Points to the interior frame or sash.
- 2**: Points to the interior weatherstripping or seal.
- 14**: Points to the interior frame or sash.
- 40**: Points to the interior weatherstripping or seal.
- 13**: Points to the interior frame or sash.
- 51**: Points to the interior weatherstripping or seal.
- 9**: Points to the interior frame or sash.
- 7**: Points to the interior weatherstripping or seal.
- 52**: Points to the interior frame or sash.
- 53**: Points to the interior weatherstripping or seal.
- 54**: Points to the interior frame or sash.
- D**: Points to the exterior wall surface.
- 1-1/4" MIN. EMB. (TYP.)**: Indicates the minimum embedding depth of the exterior seal.

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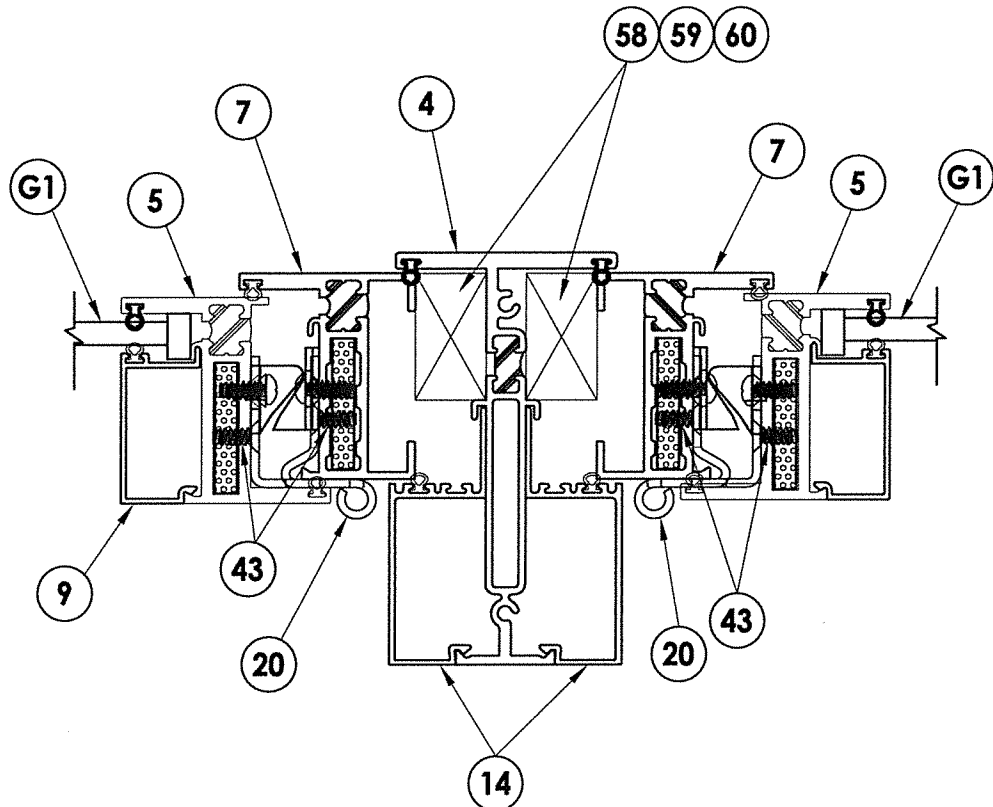
DATE: 10/23/13		PRODUCT:	
SCALE: N.T.S.		FLEETWOOD WINDOWS AND DOORS	
DWG. BY: JK		PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS	
CHK. BY: LFS			
DRAWING NO.: FL-14904.2			
SHEET 4 OF 11			
5	12/7/21	SERIES NAME CHANGE	LFS
4	8/06/20	UPDATE TO 7th ED. (2020)	DAC
3	8/07/17	UPDATE TO 6TH ED.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

Z:\Clients\Fleetwood PERMANENT\A - Florida Product Approvals\FL-14904 Casement\C - Drawings\FL-14904 (2020) R8\FL-14904.1-6.dwg



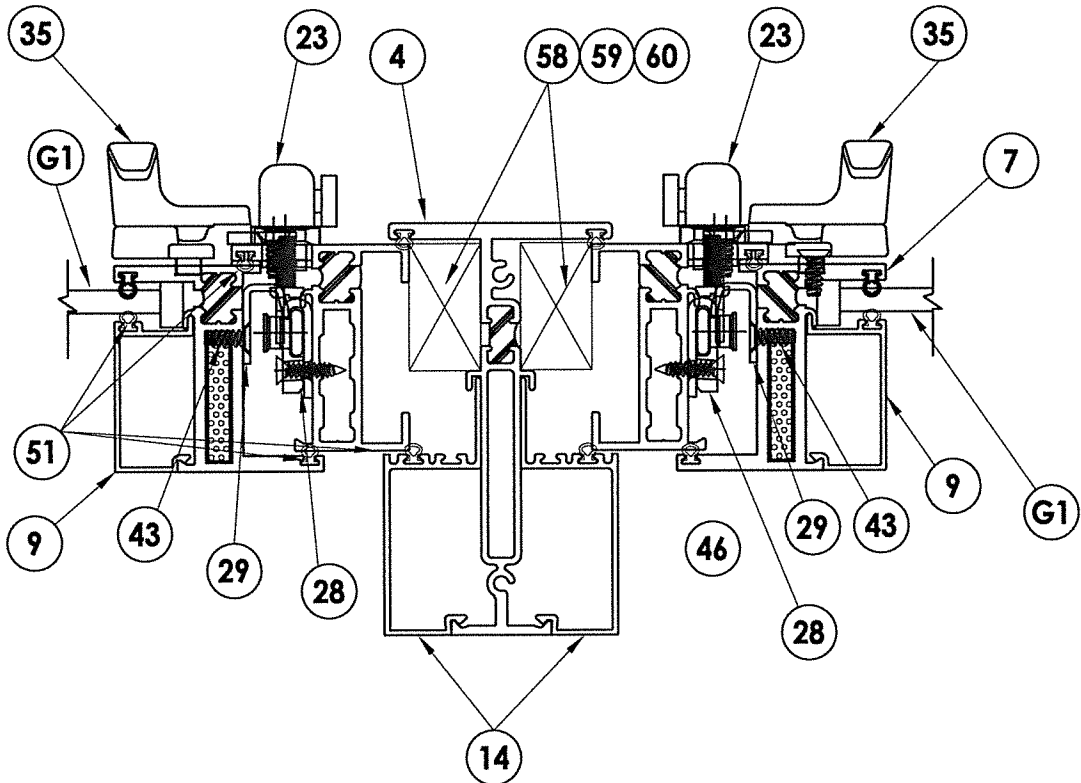
1
5 HORIZONTAL CROSS SECTION

INTERIOR

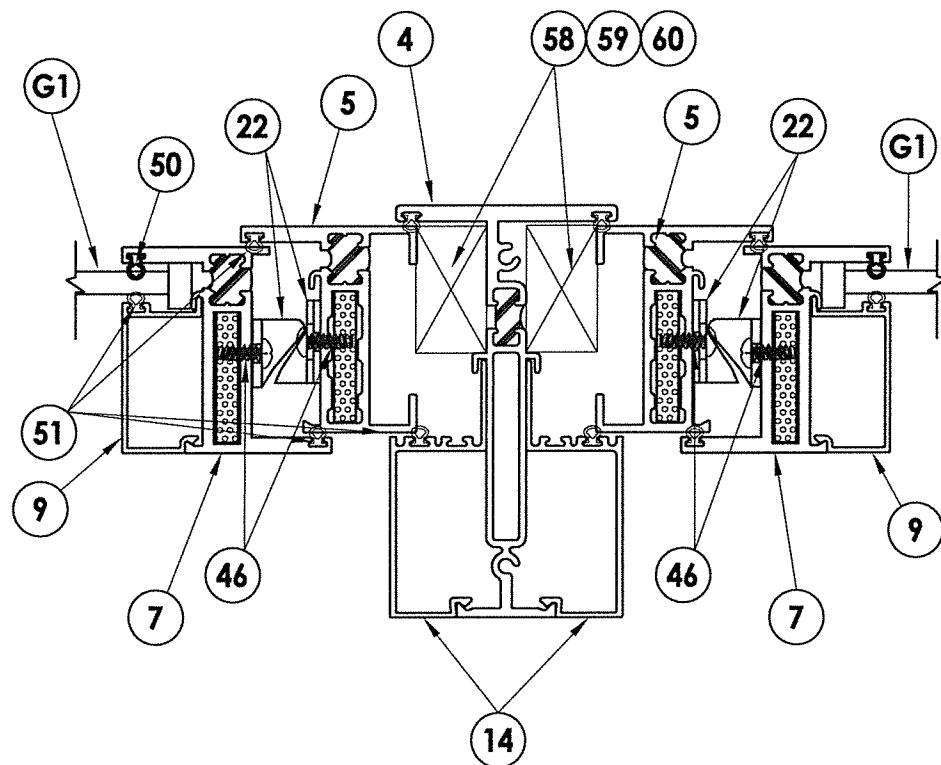


2
5 HORIZONTAL CROSS SECTION

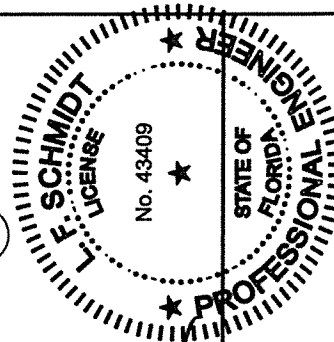
EXTERIOR



3
5 HORIZONTAL CROSS SECTION



4
5 HORIZONTAL CROSS SECTION



December 7, 2021
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
CROSS SECTIONS

NO.	DATE	BY
5	12/7/21	LFS
4	8/06/20	DAC
3	8/07/17	LFS
2	8/22/16	LFS
1	1/22/15	LFS

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

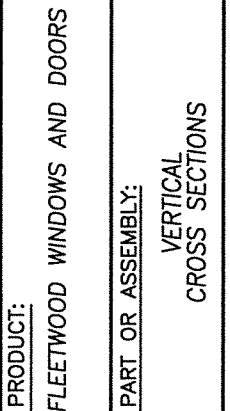
DRAWING NO.:

FL-14904.2

SHEET 5 OF 11

December 7, 2021
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



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.

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CHK. BY: LFS

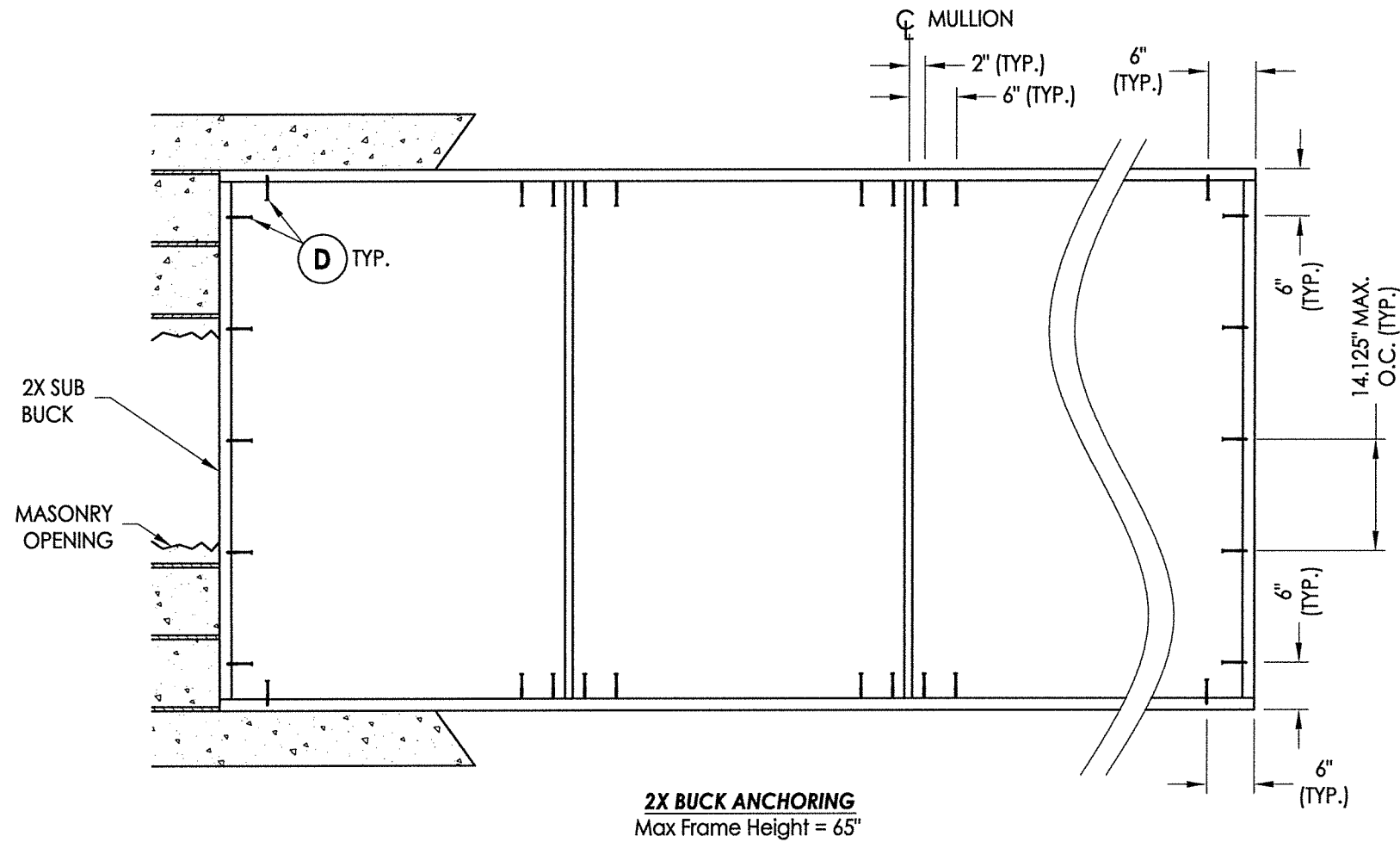
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FL-14904.2

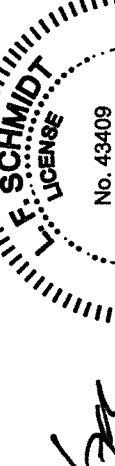
SHEET 6 OF 11

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"





December 7, 2021

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

PROFESSIONAL ENGINEER
STATE OF FLORIDA

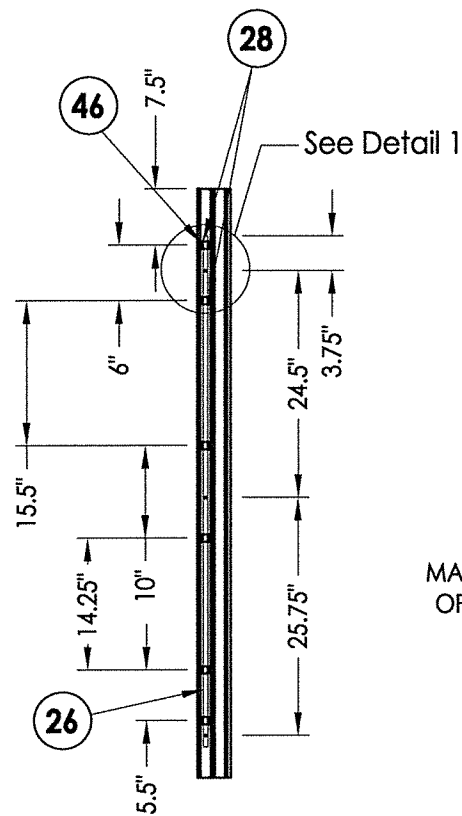
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

[Signature]

PRODUCT: FLEETWOOD WINDOWS AND DOORS		PART OR ASSEMBLY: BUCK ANCHORING									
		LFS									
		DAC									
		LFS									
		LFS									
		LFS									
		LFS									
		BY									
		REVISIONS									

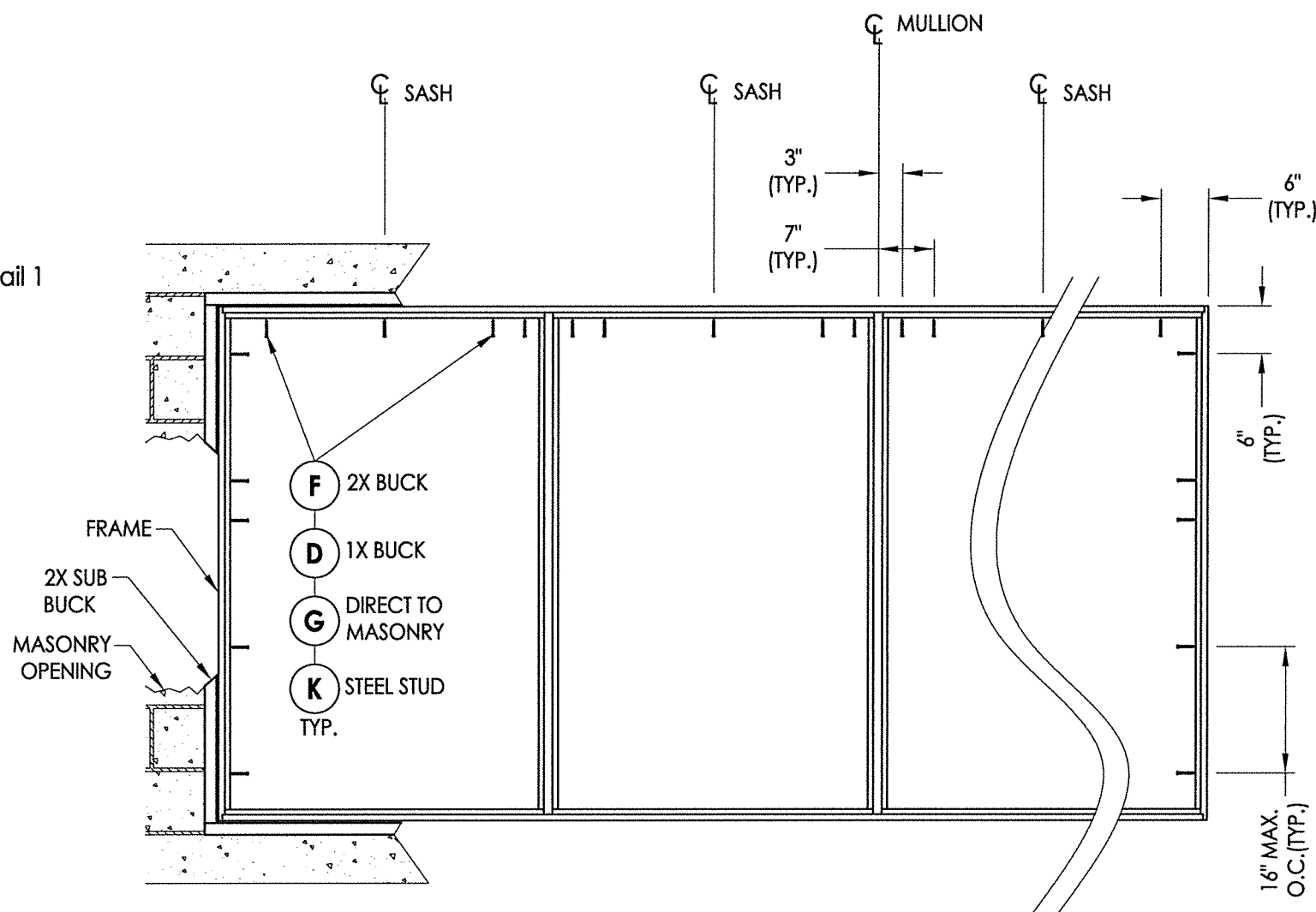
DATE:	10/23/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14904.2
SHEET	7 OF 11

2013 B.W. BUILDING CONSULTANTS, INC.



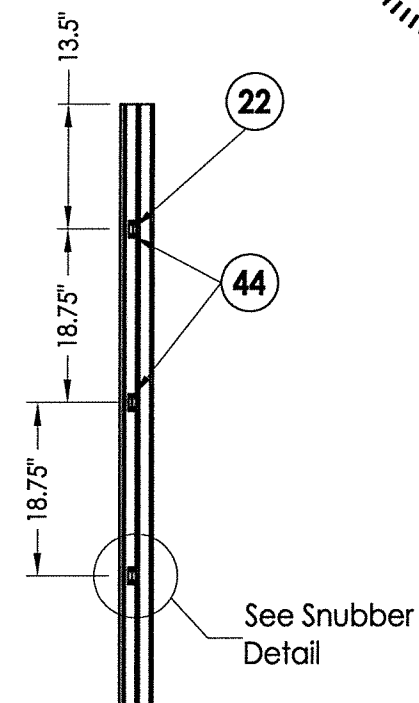
LOCK JAMB

Locking Points (3)

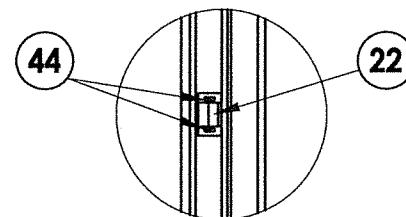


FRAME ANCHORING

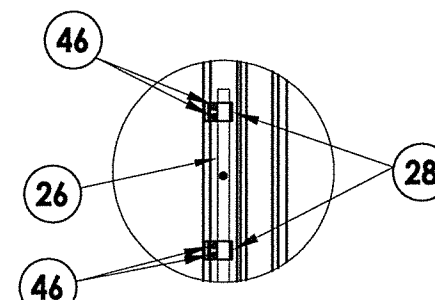
Max Frame Height = 65"



SNUBBERS JAMB



SNUBBER DETAIL



DETAIL 1

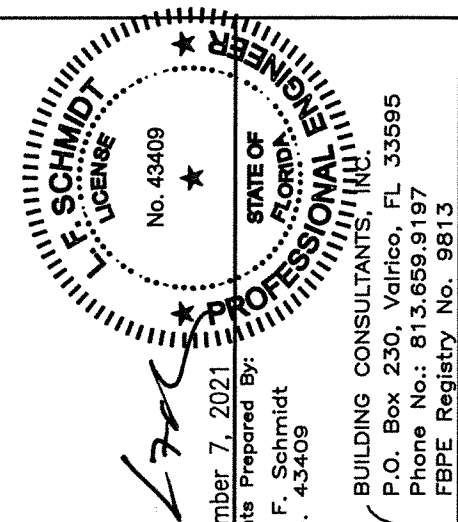
CONCRETE ANCHOR NOTES:

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"

WOOD SCREW INSTALLATION NOTES:

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



December 7, 2021
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

PRODUCT:

PRODUCT: FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:

FRAME ANCHORING

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
			REVISIONS

DATE: 10/23/13

SCALE: N.T.S.

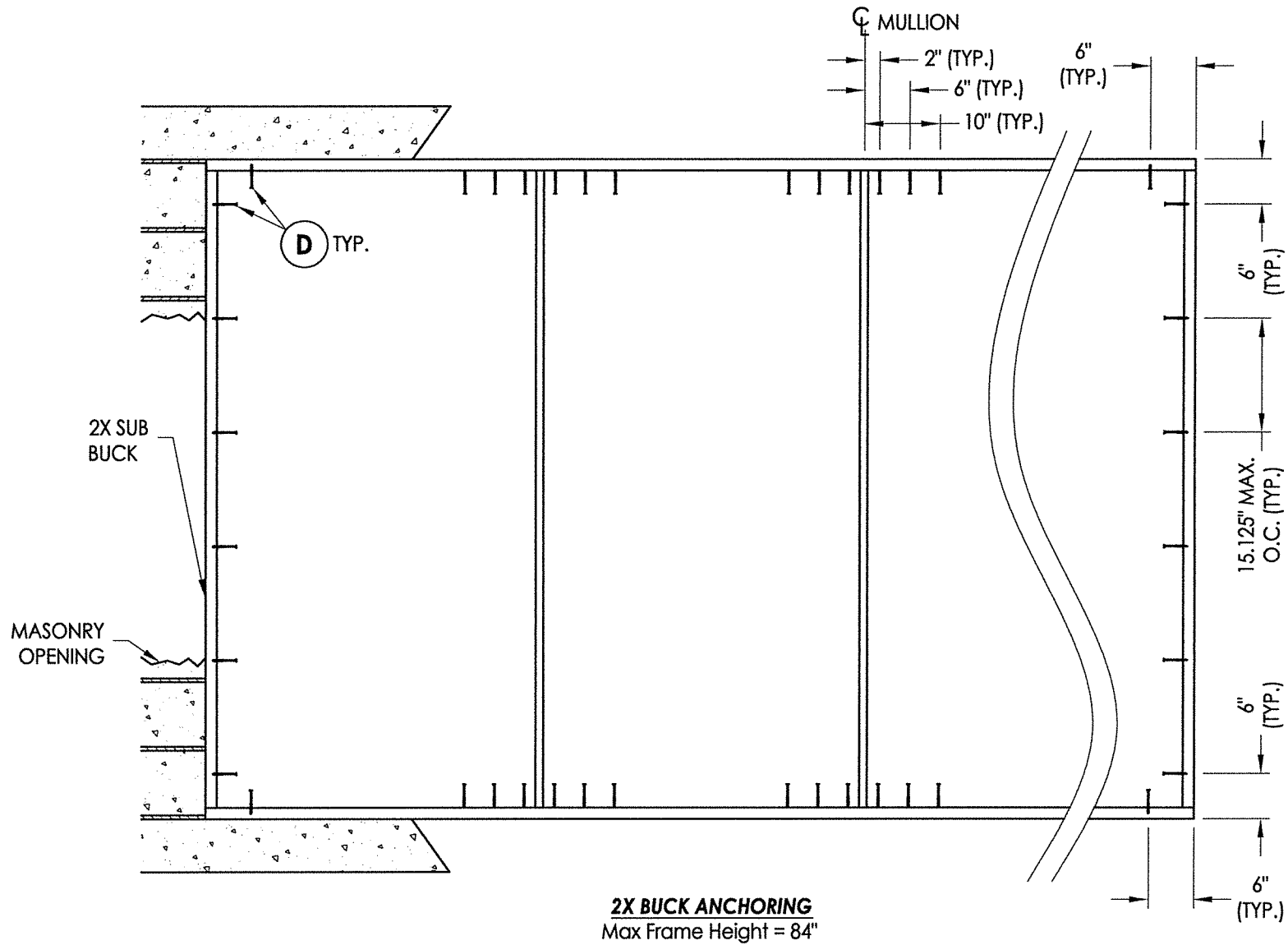
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14904.2

SHEET 8 OF 11



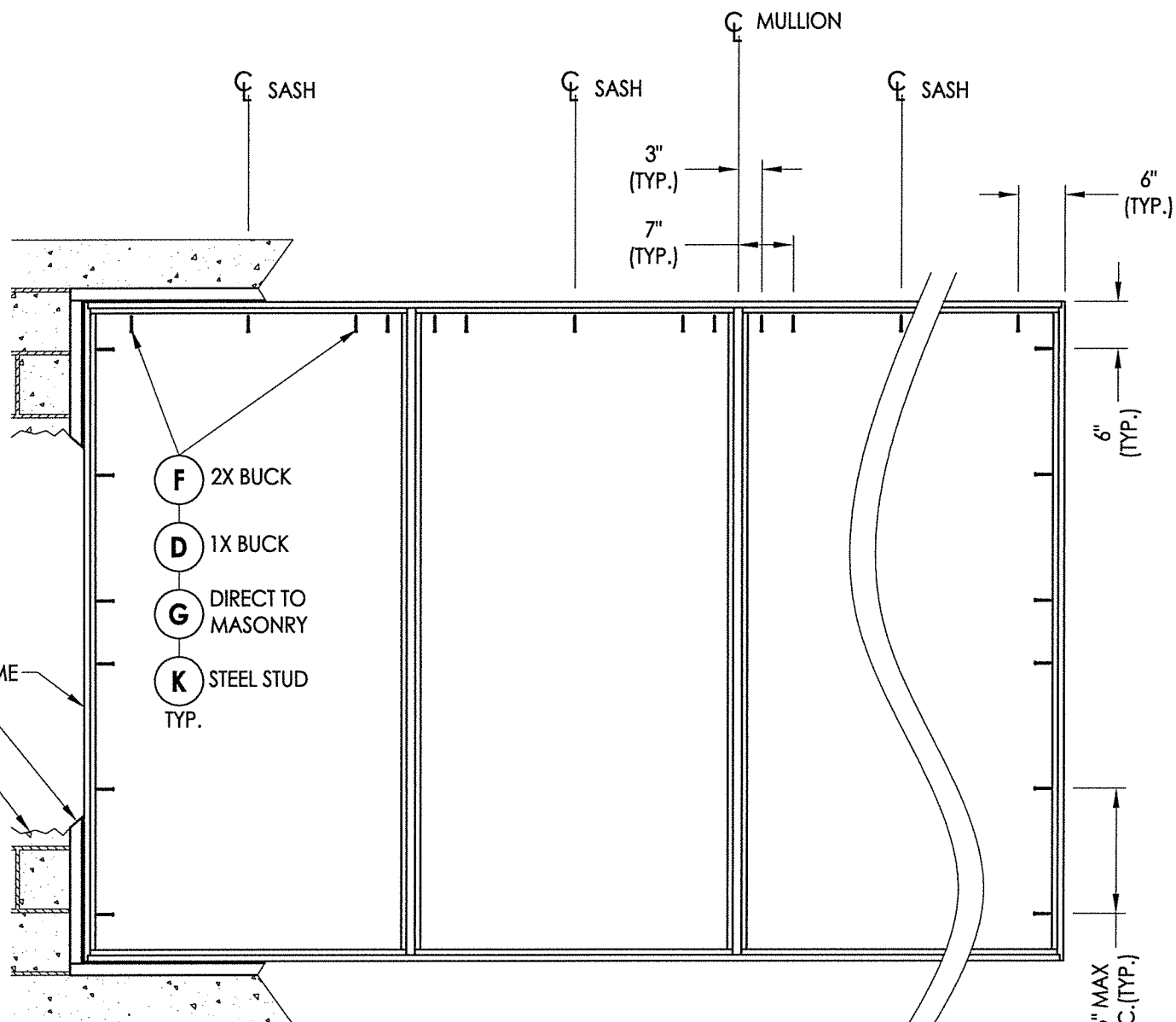
CONCRETE ANCHOR NOTES:

- 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:

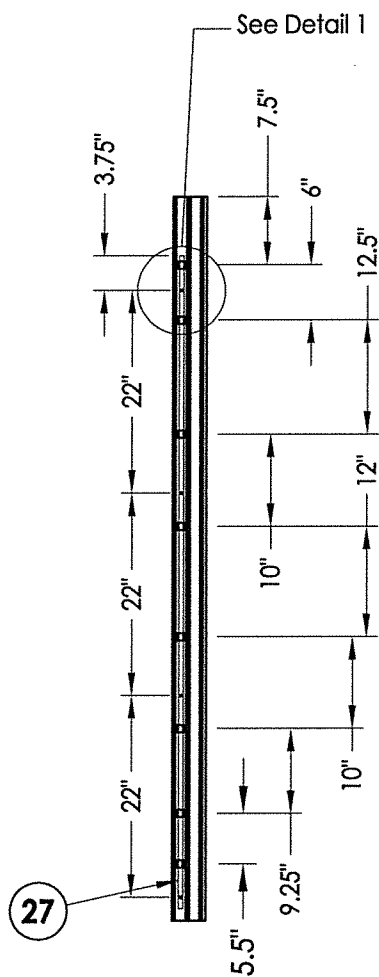
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

December 7, 2021 Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		December 7, 2021 Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		December 7, 2021 Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PRODUCT:		FLEETWOOD WINDOWS AND DOORS		PART OR ASSEMBLY:	
LFS		FLEETWOOD WINDOWS AND DOORS		BUCK ANCHORING	
DAC		FLEETWOOD WINDOWS AND DOORS		BUCK ANCHORING	
LFS		FLEETWOOD WINDOWS AND DOORS		BUCK ANCHORING	
LFS		FLEETWOOD WINDOWS AND DOORS		BUCK ANCHORING	
LFS		FLEETWOOD WINDOWS AND DOORS		BUCK ANCHORING	
LFS		FLEETWOOD WINDOWS AND DOORS		BUCK ANCHORING	
BY		BY		BY	
NO.		NO.		NO.	
DATE		DATE		DATE	
REVISIONS		REVISIONS		REVISIONS	
DATE: 10/23/13		DATE: 10/23/13		DATE: 10/23/13	
SCALE: N.T.S.		SCALE: N.T.S.		SCALE: N.T.S.	
DWG. BY: JK		DWG. BY: JK		DWG. BY: JK	
CHK. BY: LFS		CHK. BY: LFS		CHK. BY: LFS	
DRAWING NO.: FL-14904.2		DRAWING NO.: FL-14904.2		DRAWING NO.: FL-14904.2	
SHEET 9 OF 11		SHEET 9 OF 11		SHEET 9 OF 11	

FRAM
2X SUB —
BUCK
MASONRY —
OPENING



Max Frame Height = 84"

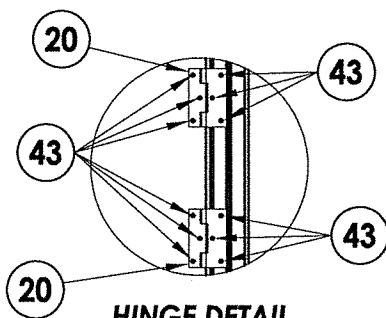


Locking Points (4)

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:

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

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



A circular inset diagram showing a close-up of the connection between the front plate (44) and the front plate bracket (22). The front plate (44) is a small rectangular component with a central slot. The front plate bracket (22) is a larger component with a central slot that fits over the front plate (44). The diagram shows the front plate (44) being inserted into the front plate bracket (22).

 Prepared By: Schmidt
 43409

April 7, 2021
 BUILDING CONSULTANTS, INC.
 P.O. Box 230, Valrico, FL 33595
 Phone No.: 813.659.9197
 FBPE Registry No. 9813

December 7, 2021
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

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	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	-
57	PIVOT SHIM	-
58	WOOD BLOCK .50" X 1.250"	-
59	ALUMINUM BLOCK .50" X 1.250"	-
60	PVC BLOCK .50" X 1.250"	-

