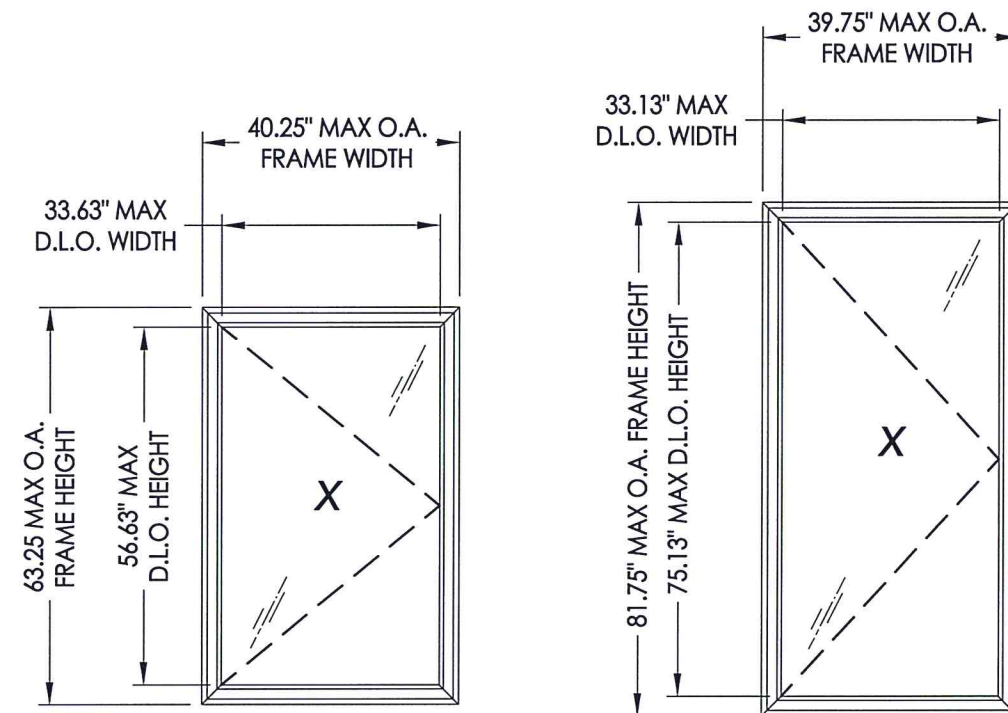


Series 350-T
Aluminum Casement Window
w/ Thermal Break Frame
"IMPACT"

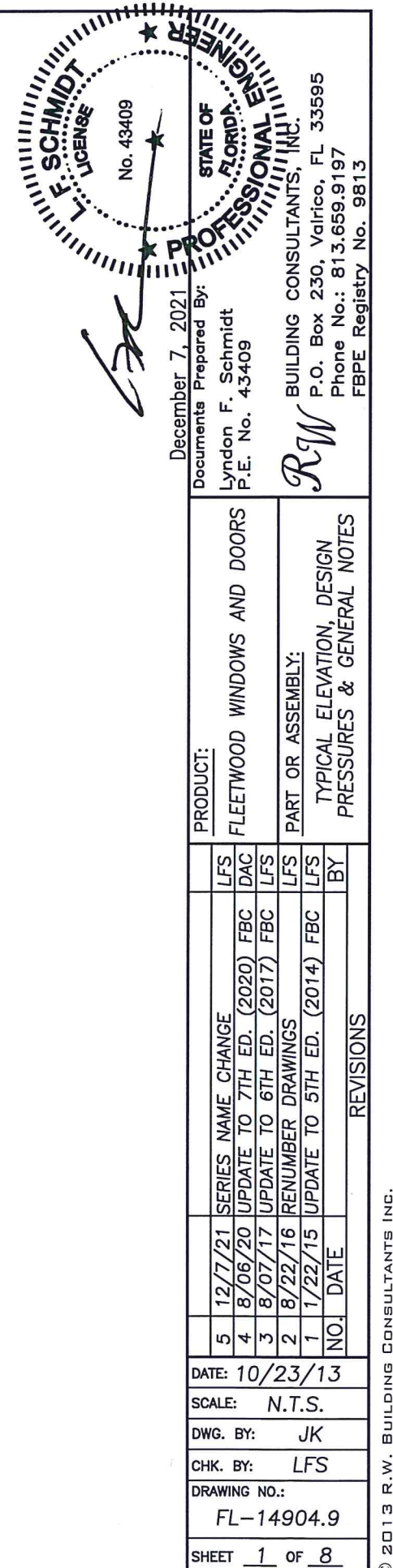
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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 E1996 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.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

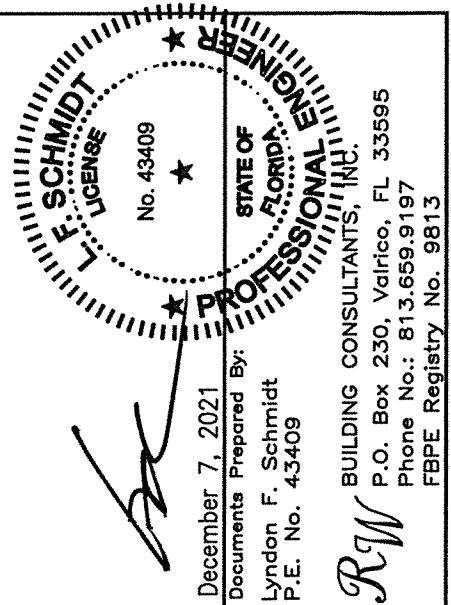
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Elevations
3	Horizontal and vertical cross sections
4	Horizontal and vertical cross sections
5	Buck and frame anchoring
6	Buck and frame anchoring
7	Glazing details
8	Bill of materials and components



OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
40.25" X 63.25"	33.63" X 56.63"	G1, G2, G3, G4, G5	+65.0	-65.0
39.75" X 81.75"	33.13" X 75.13"	G1, G2, G3, G4, G5	+65.0	-65.0

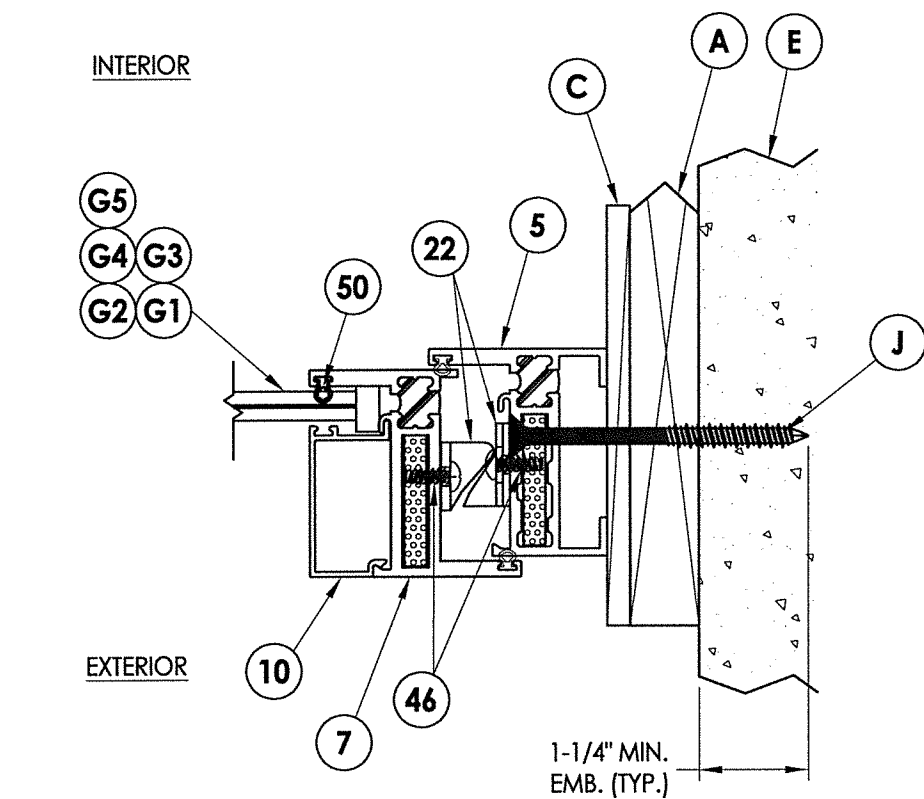


HARDWARE TABLE			
HINGE			
Qty.	Description	Height	Snubbers
5	Butt hinge	≤ 81.75"	Not Req'd
4	Butt hinge	≤ 81.75"	Yes (2)
2	Butt hinge	≤ 50"	Yes (2)
2	4 Bar hinge	≤ 65"	Yes (3)
HANDLES			
Points	Description	Height	*Cam locks can be used in conjunction with multipoint lock or in lieu of multipoint locks
4	Multipoint	> 72"	
3	Multipoint	≤ 72"	
Qty.			
3	Cam*	≤ 65"	
1	Cam*	≤ 50"	

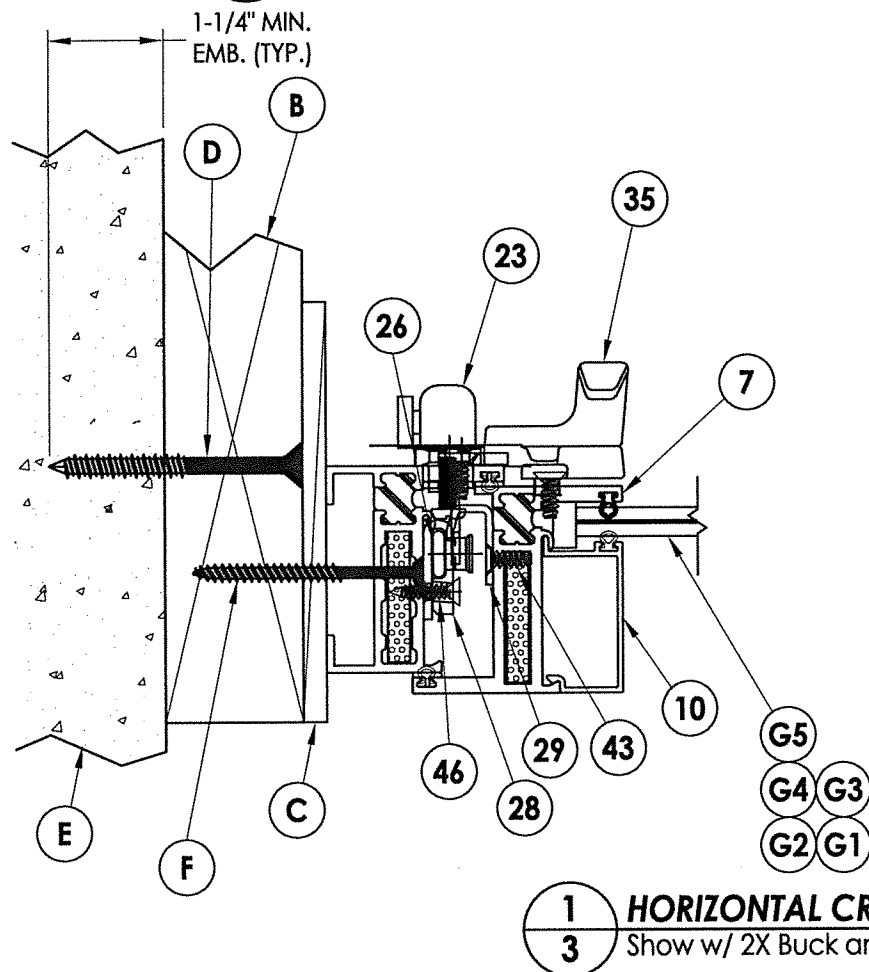


DATE: 10/23/13		PRODUCT: FLEETWOOD WINDOWS AND DOORS																													
SCALE: N.T.S.		PART OR ASSEMBLY: ELEVATIONS																													
DWG. BY: JK	CHK. BY: LFS																														
DRAWING NO.: FL-14904.9																															
SHEET 2 OF 8	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>SERIES NAME CHANGE</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>12/7/21</td> <td></td> <td>LFS</td> </tr> <tr> <td>4</td> <td>8/06/20</td> <td>UPDATE TO 7th ED. (2020)</td> <td>DAC</td> </tr> <tr> <td>3</td> <td>8/07/17</td> <td>UPDATE TO 6TH ED. (2017)</td> <td>LFS</td> </tr> <tr> <td>2</td> <td>8/22/16</td> <td>RENUMBER DRAWINGS</td> <td>LFS</td> </tr> <tr> <td>1</td> <td>8/06/17</td> <td>UPDATE TO 5TH ED. (2014)</td> <td>LFS</td> </tr> <tr> <td colspan="2"></td> <td></td> <td>BY</td> </tr> </tbody> </table>			NO.	DATE	SERIES NAME CHANGE	REVISIONS	5	12/7/21		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	8/06/17	UPDATE TO 5TH ED. (2014)	LFS				BY
NO.	DATE	SERIES NAME CHANGE	REVISIONS																												
5	12/7/21		LFS																												
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2	8/22/16	RENUMBER DRAWINGS	LFS																												
1	8/06/17	UPDATE TO 5TH ED. (2014)	LFS																												
			BY																												

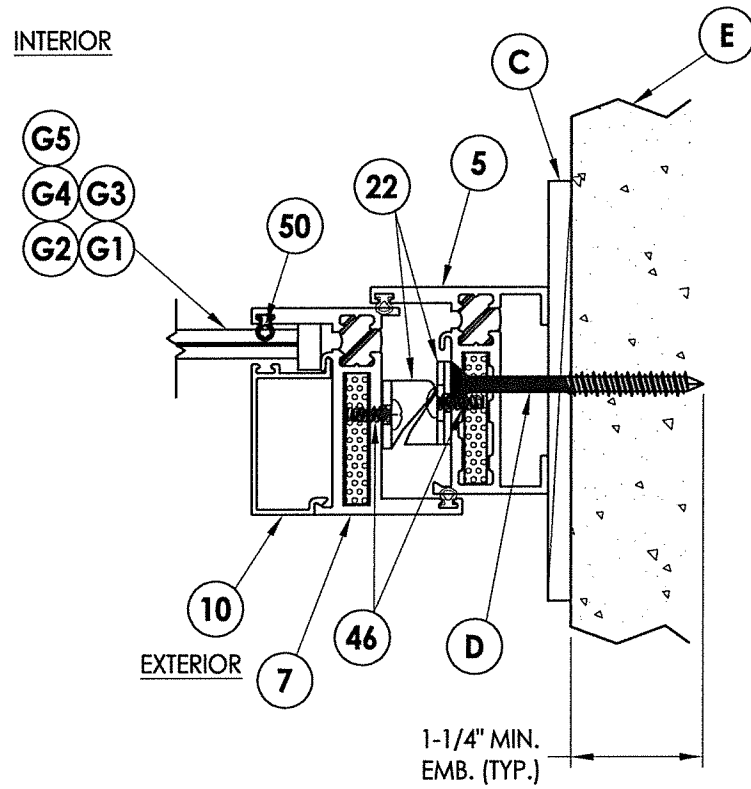
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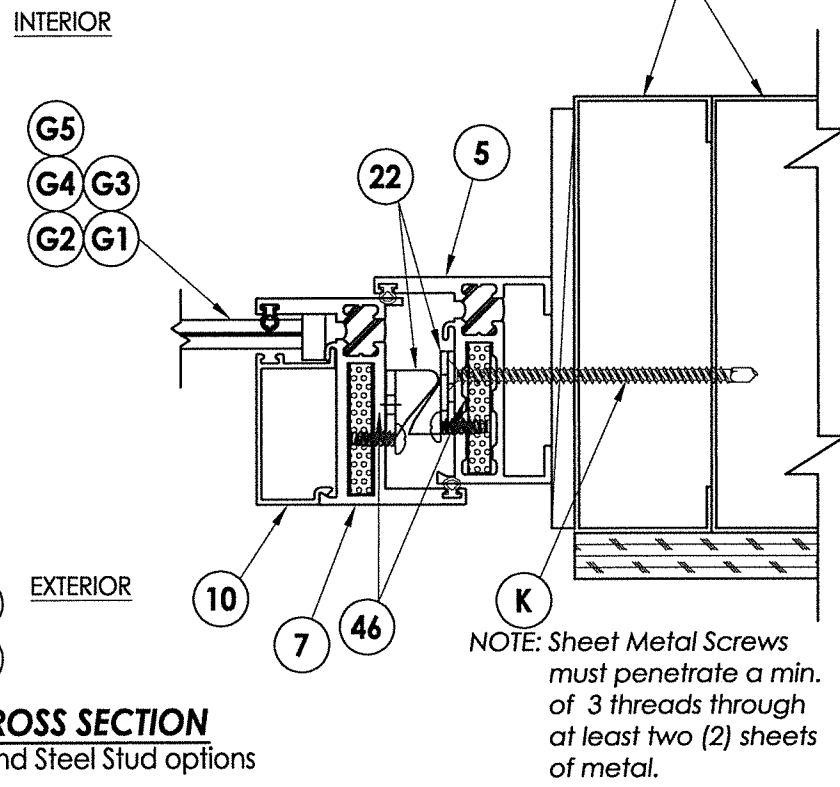
2 **HORIZONTAL CROSS SECTION**
3 Shown w/ 1X Sub buck option



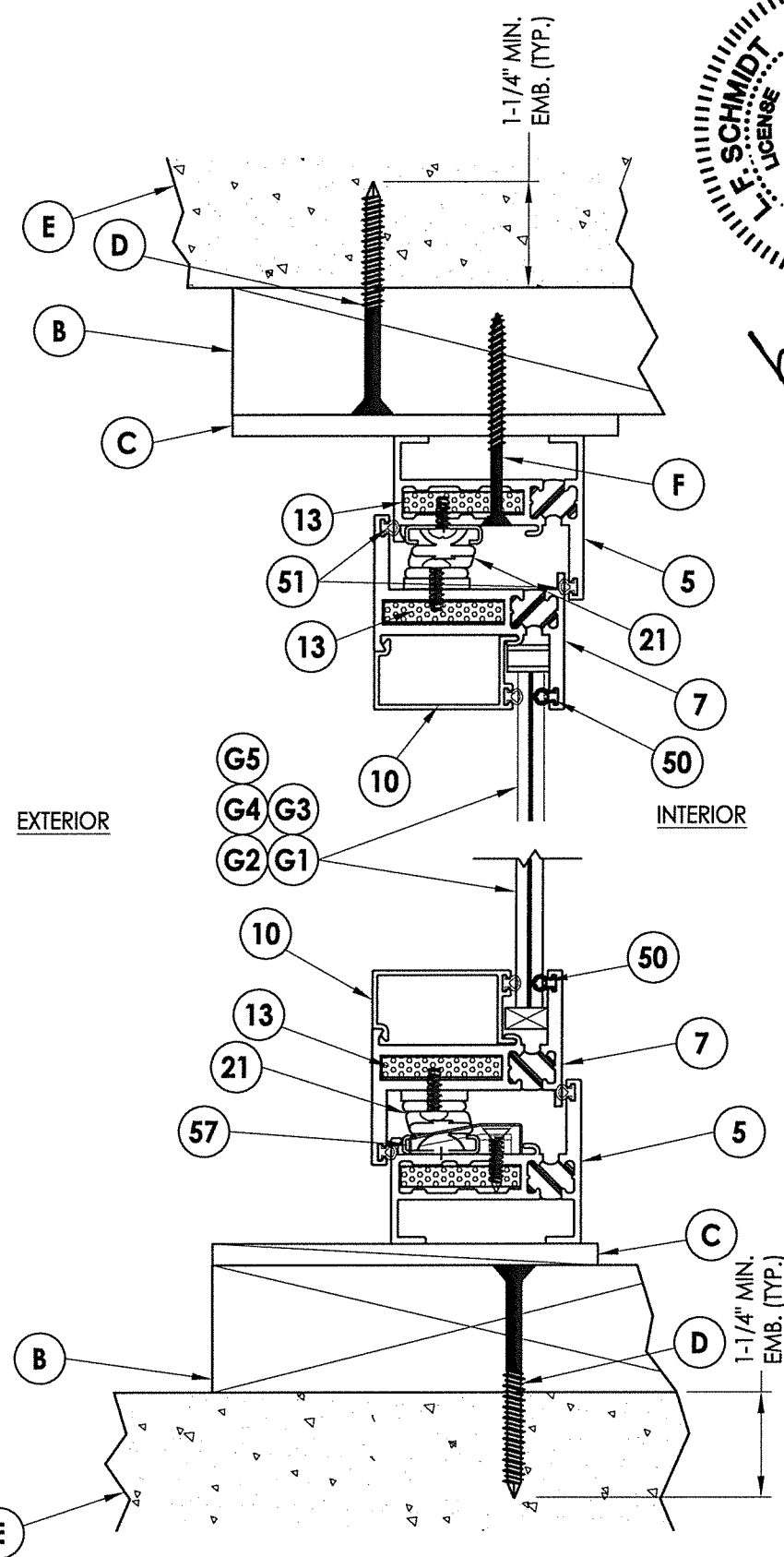
1 **HORIZONTAL CROSS SECTION**
3 Show w/ 2X Buck and Steel Stud options



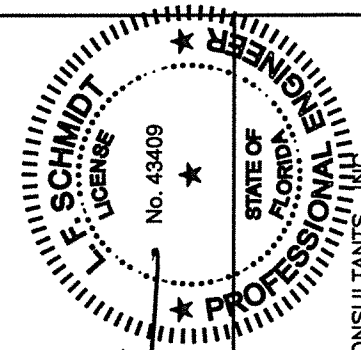
3 **HORIZONTAL CROSS SECTION**
3 Shown w/ Direct to Masonry option



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



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



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 AND VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS			
		LFS	DAC	LFS	BY
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	8/06/17	UPDATE TO 5TH ED. (2014)	FBC		

DATE: 10/23/13

SCALE: N.T.S.

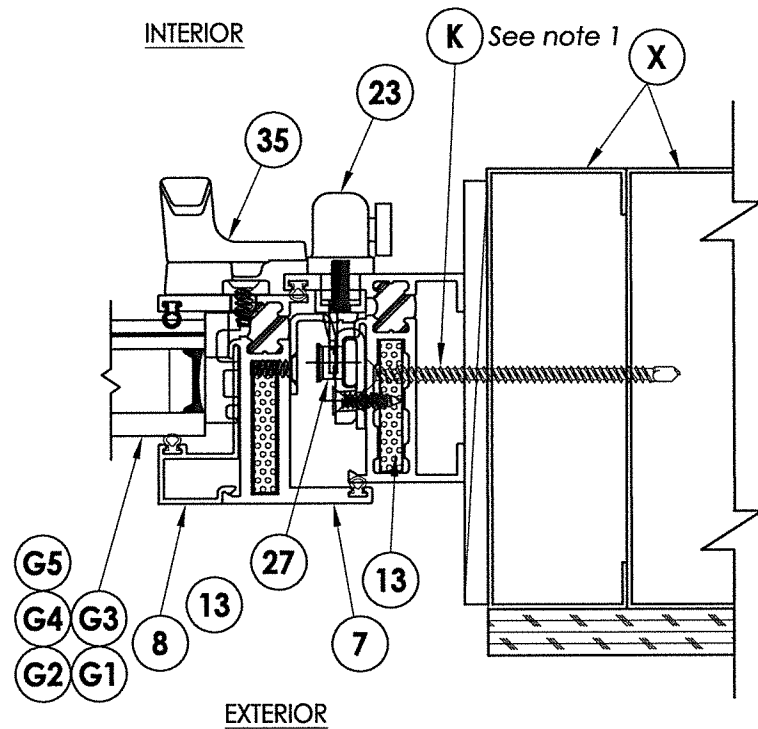
DWG. BY: JK

CHK. BY: LFS

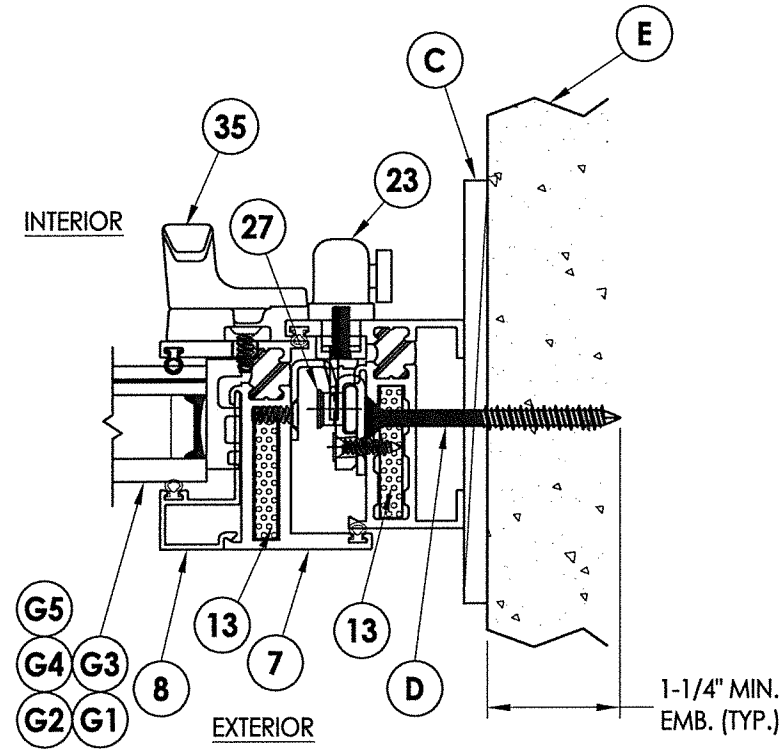
DRAWING NO.: FL-14904.9

SHEET 3 OF 8

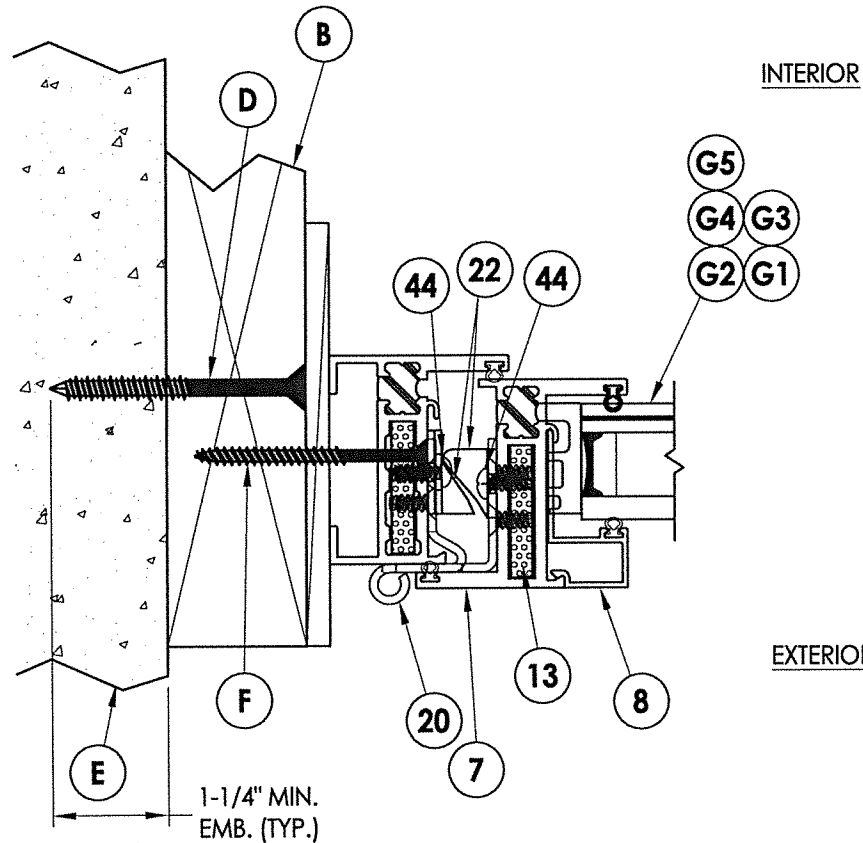
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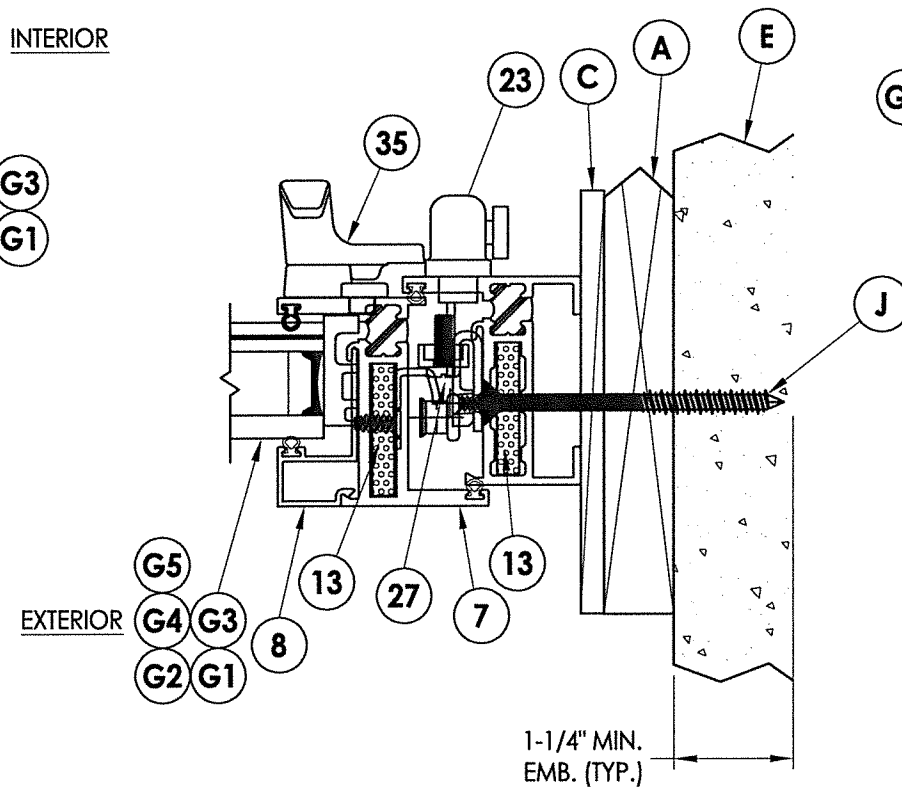
3 HORIZONTAL CROSS SECTION
4 Shown w/ Steel Stud option



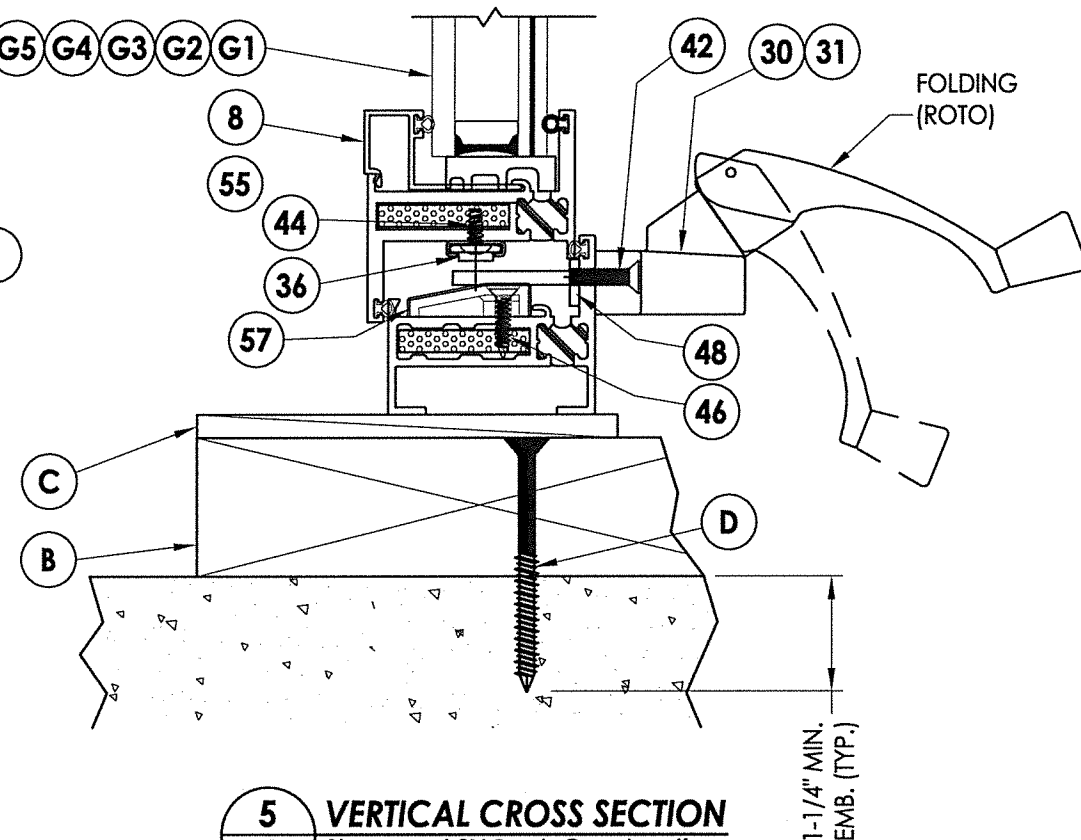
4 HORIZONTAL CROSS SECTION
4 Shown w/ Direct to Masonry option



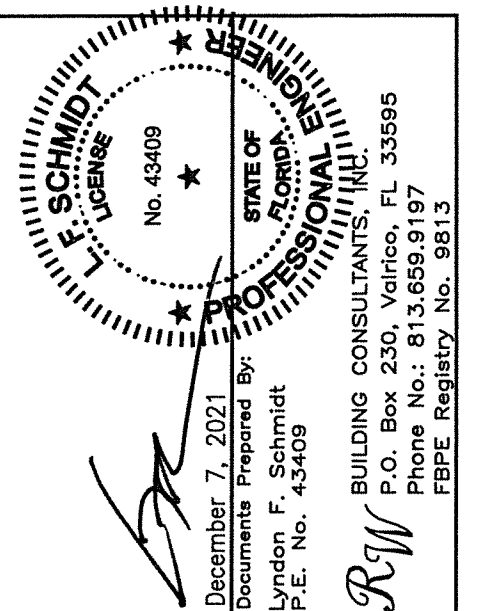
1 HORIZONTAL CROSS SECTION
4 Shown w/ 2X Buck Construction



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



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

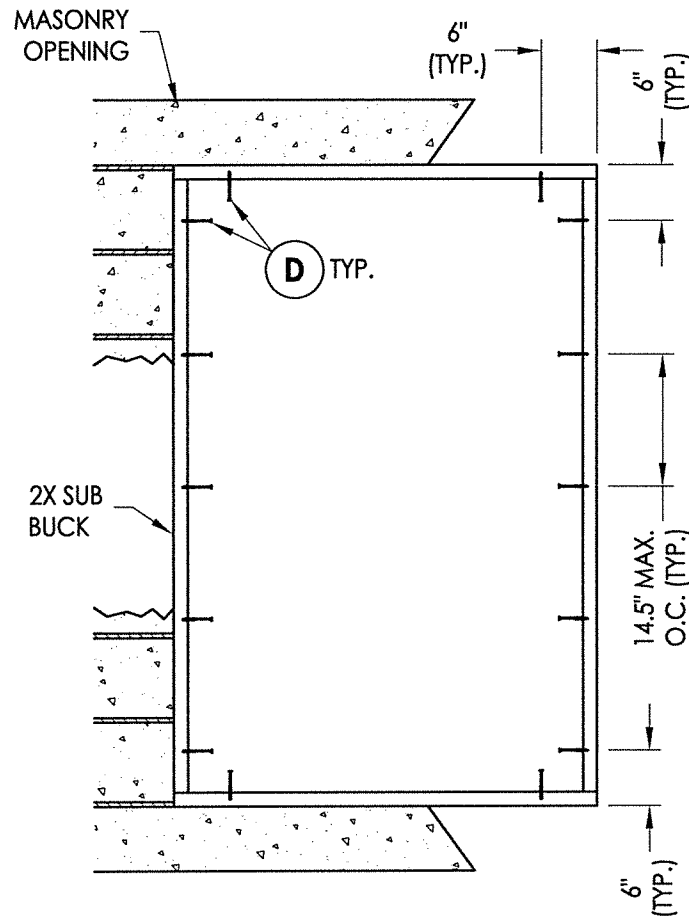


PRODUCT:		FLEETWOOD WINDOWS AND DOORS		PART OR ASSEMBLY:		HORIZONTAL AND VERTICAL CROSS SECTIONS	
NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
5	12/7/21	LFS	10/23/13	1	8/06/17	LFS	10/23/13
4	8/06/20	DAC	10/23/13	2	8/22/16	LFS	10/23/13
3	8/07/17	FBC	10/23/13	3	8/07/17	FBC	10/23/13
2	8/22/16	FBC	10/23/13	4	8/06/20	DAC	10/23/13
1	8/06/17	LFS	10/23/13	5	12/7/21	LFS	10/23/13

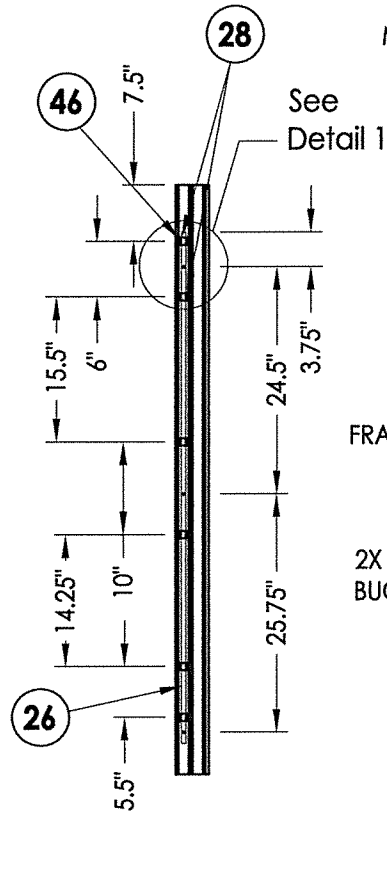
NOTE:

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

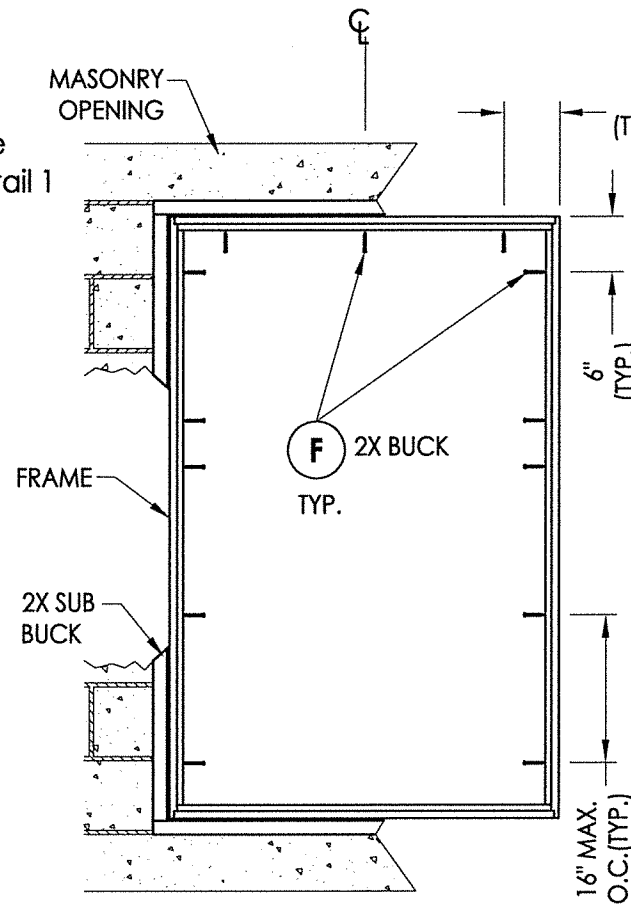
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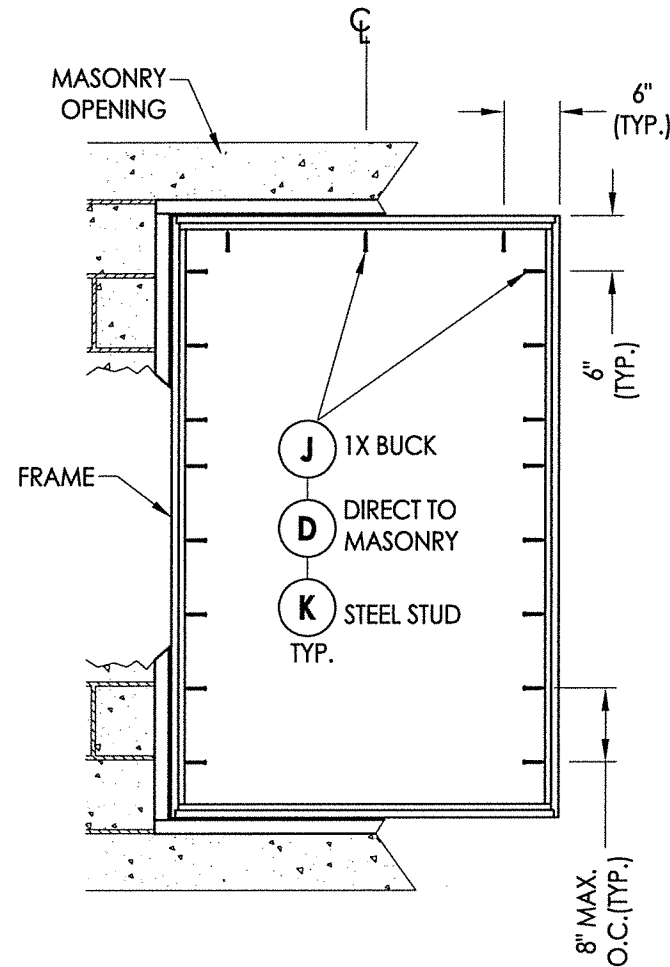
2X BUCK ANCHORING
40.25" X 63.25" Max Size



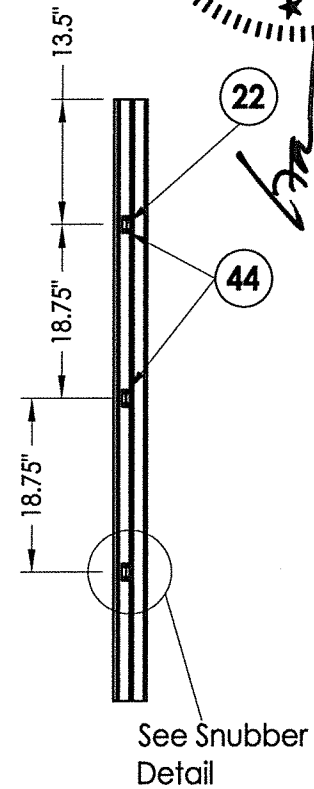
LOCK JAMB
Locking Points (3)



FRAME MOUNT ANCHORING
40.25" X 63.25" Max Size
(2X BUCK)



FRAME MOUNT ANCHORING
40.25" X 63.25" Max Size
(1X BUCK, DIR. TO MASONRY, STEEL STUD)



SNUBBERS JAMB

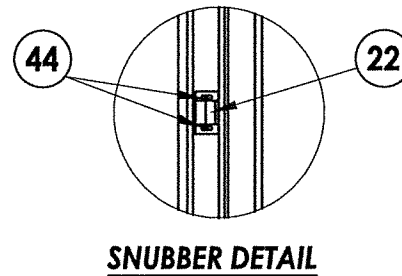
CONCRETE ANCHOR NOTES:

- 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:

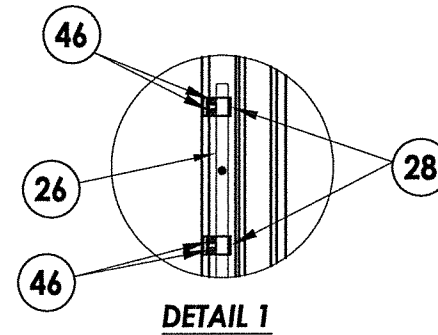
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

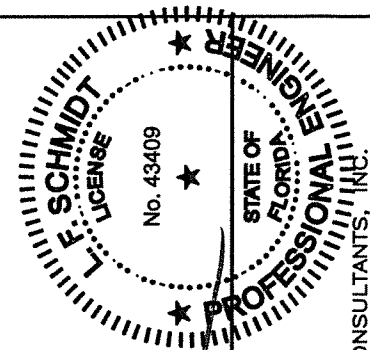
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



SNUBBER DETAIL



DETAIL 1



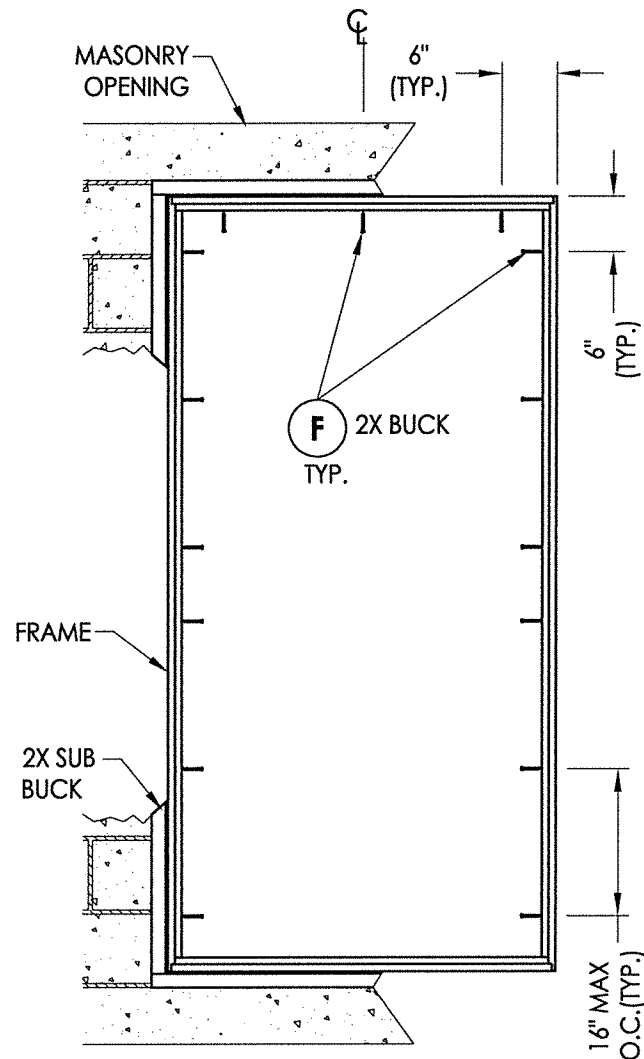
December 7, 2021
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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:		BUCK & FRAME ANCHORING	
NO.	DATE	REVISIONS	BY	DATE	BY	DATE	BY
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-14904.9
SHEET 5 OF 8

HINGE JAMB



Technical drawing of a window frame assembly. The drawing shows a cross-section of the window frame and its connection to the masonry wall. The frame is labeled "FRAME" and is shown with a "MASONRY OPENING" above it. The frame is composed of three main parts: "J 1X BUCK", "D DIRECT TO MASONRY", and "K STEEL STUD TYP.". The frame is shown with a "6\" (TYP.)" dimension for the top and bottom sections. The frame is also shown with a "6\" (TYP.)" dimension for the side sections. The frame is shown with a "8\" MAX O.C. (TYP.)" dimension for the vertical spacing between the studs. The frame is shown with a "6\" (TYP.)" dimension for the top and bottom sections. The frame is shown with a "6\" (TYP.)" dimension for the side sections. The frame is shown with a "8\" MAX O.C. (TYP.)" dimension for the vertical spacing between the studs.

[illegible]

12.5" 6"

FW

December 7, 2021

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

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

L. F. SCHMIDT
LICENSE
No. 43409

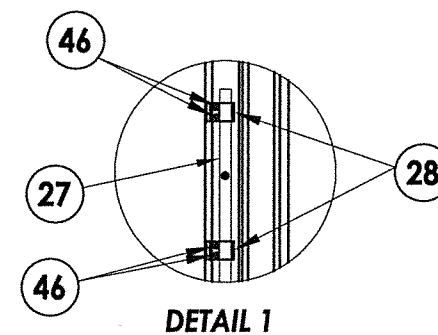
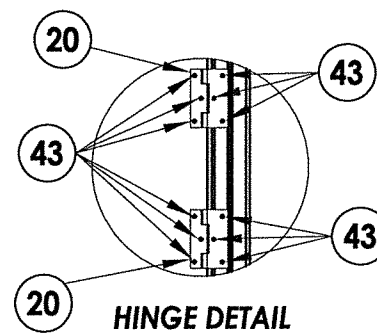
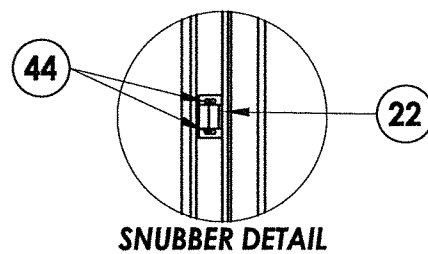
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

RW

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:

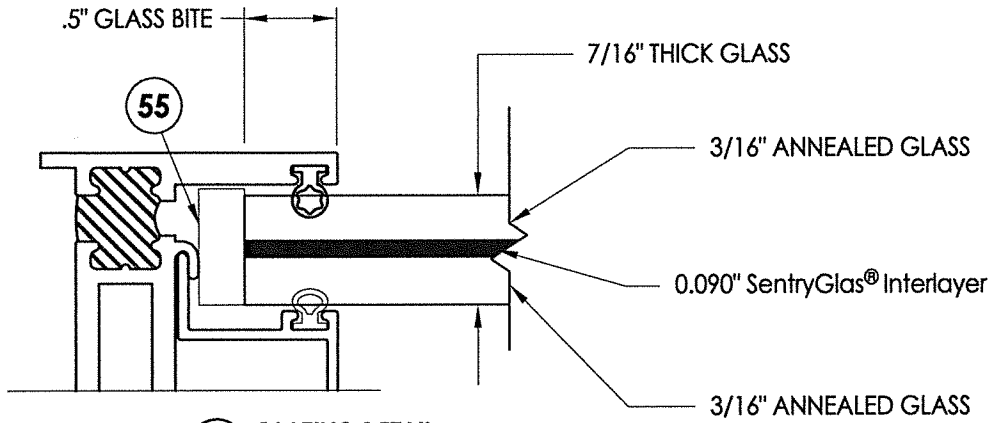
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	1"	4"

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

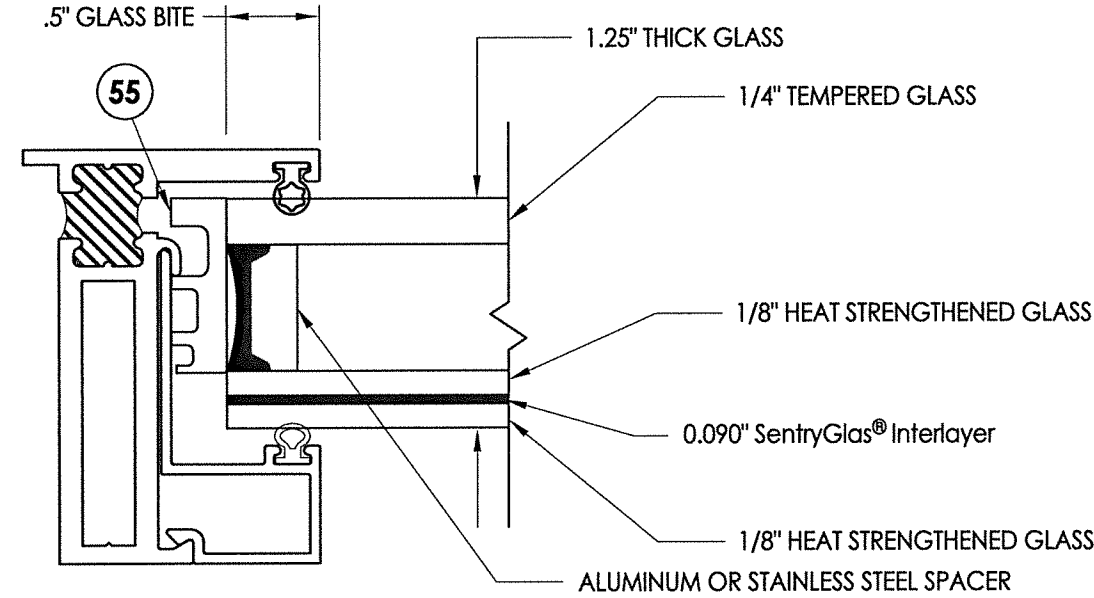


DATE: 10/23/13					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-14904.9					
SHEET	6	OF	8		
	NO.	DATE	REVISIONS		
5	12/7/21	SERIES NAME CHANGE	LFS	PRODUCT: FLEETWOOD WINDOWS AND DOORS PART OR ASSEMBLY: BUCK & FRAME ANCHORING	
4	8/06/20	UPDATE TO 7TH ED. (2020) FBC	DAC		
3	8/07/17	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		
			BY		

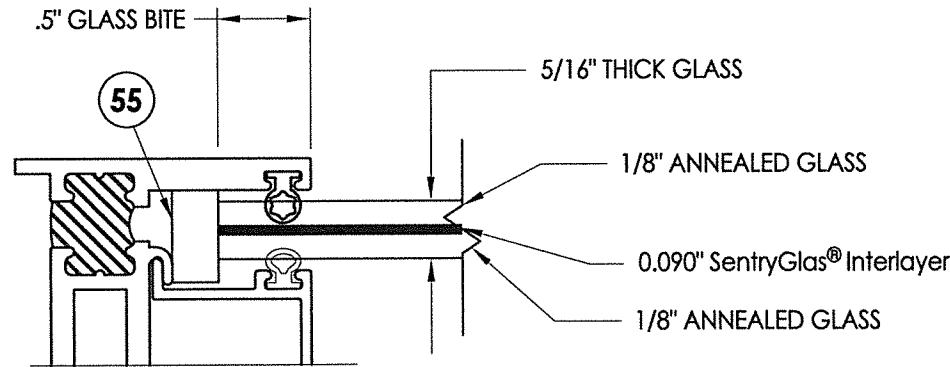
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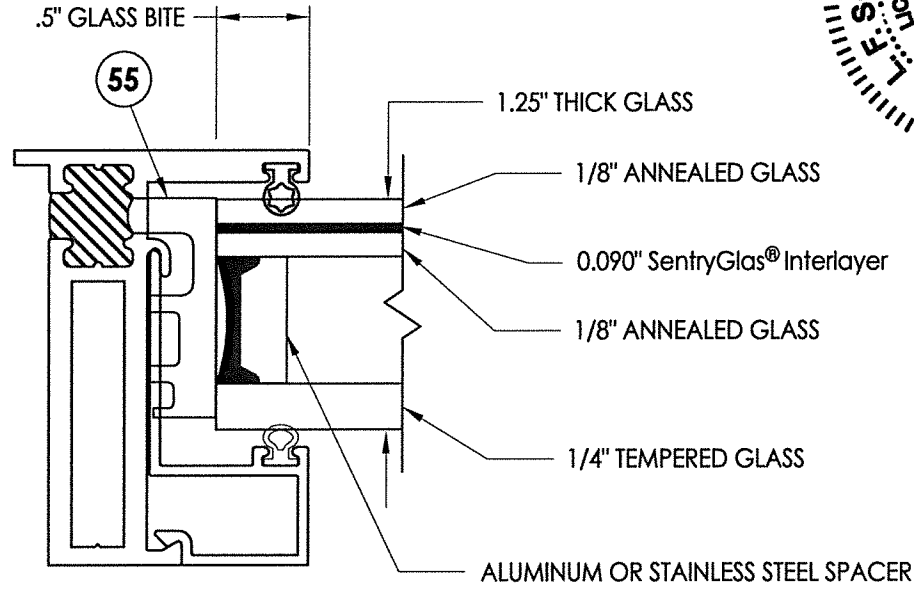
G3 GLAZING DETAIL



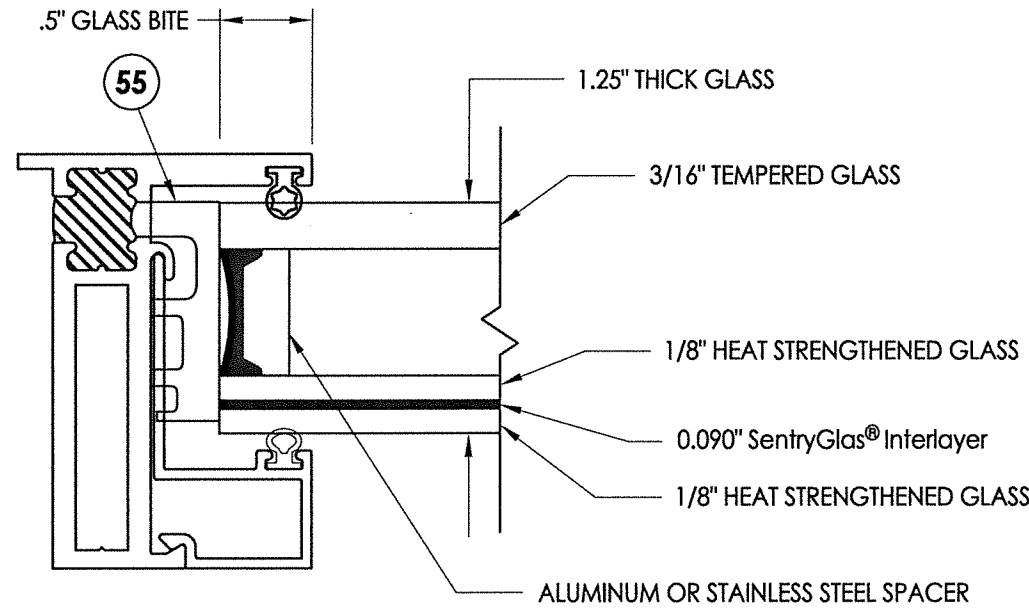
G2 GLAZING DETAIL



G4 GLAZING DETAIL



G1 GLAZING DETAIL



G5 GLAZING DETAIL

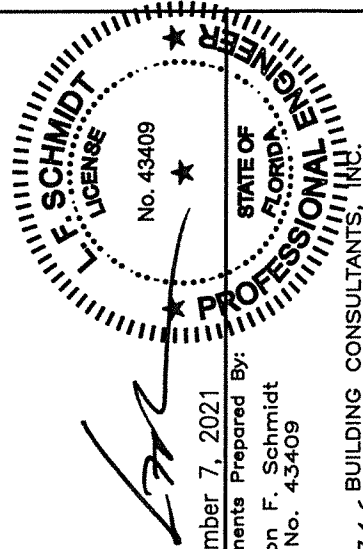
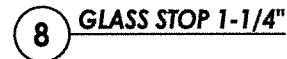
December 7, 2021
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

STATE OF FLORIDA
PROFESSIONAL ENGINEER
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:		GLAZING DETAILS	
LFS	DAC	LFS	FBC	LFS	FBC	LFS	BY
5	12/7/21	SERIES NAME CHANGE	(2020)	3	8/07/17	RENUMBER DRAWINGS	DATE
4	8/06/20	UPDATE TO 7th ED.	(2020)	2	8/22/16	UPDATE TO 5th ED.	NO.
3	8/07/17	UPDATE TO 6th ED.	(2017)	1	8/06/17	UPDATE TO 5th ED.	DATE
DATE: 10/23/13		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-14904.9		SHEET 7 OF 8		REVISONS		© 2013 R.W. BUILDING CONSULTANTS INC.	

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 2-1/2" PPH WOOD SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
J	1/4" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
K	#10 PPH SELF-DRILLING SMS	STEEL
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)	STEEL
3	THERMAL BREAK ("LIQUID POLYURETHANE" by Azon USA, Inc.)	-
5	BLOCK FRAME (350-T)	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")	6063-T6 ALUM
13	CORNER KEY	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	-
55	SETTING BLOCK	-
57	PIVOT SHIM	-



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

DATE: 10/23/13		PRODUCT: FLEETWOOD WINDOWS AND DOORS	
SCALE: N.T.S.		PART OR ASSEMBLY: BILL OF MATERIALS AND COMPONENTS	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14904.9			
SHEET 8 OF 8			
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	8/06/17	UPDATE TO 5TH ED. (2014)	LFS
NO.	DATE		BY
		REVISIONS	