



# Series 3900-T

## Aluminum Side Hinged Single Door

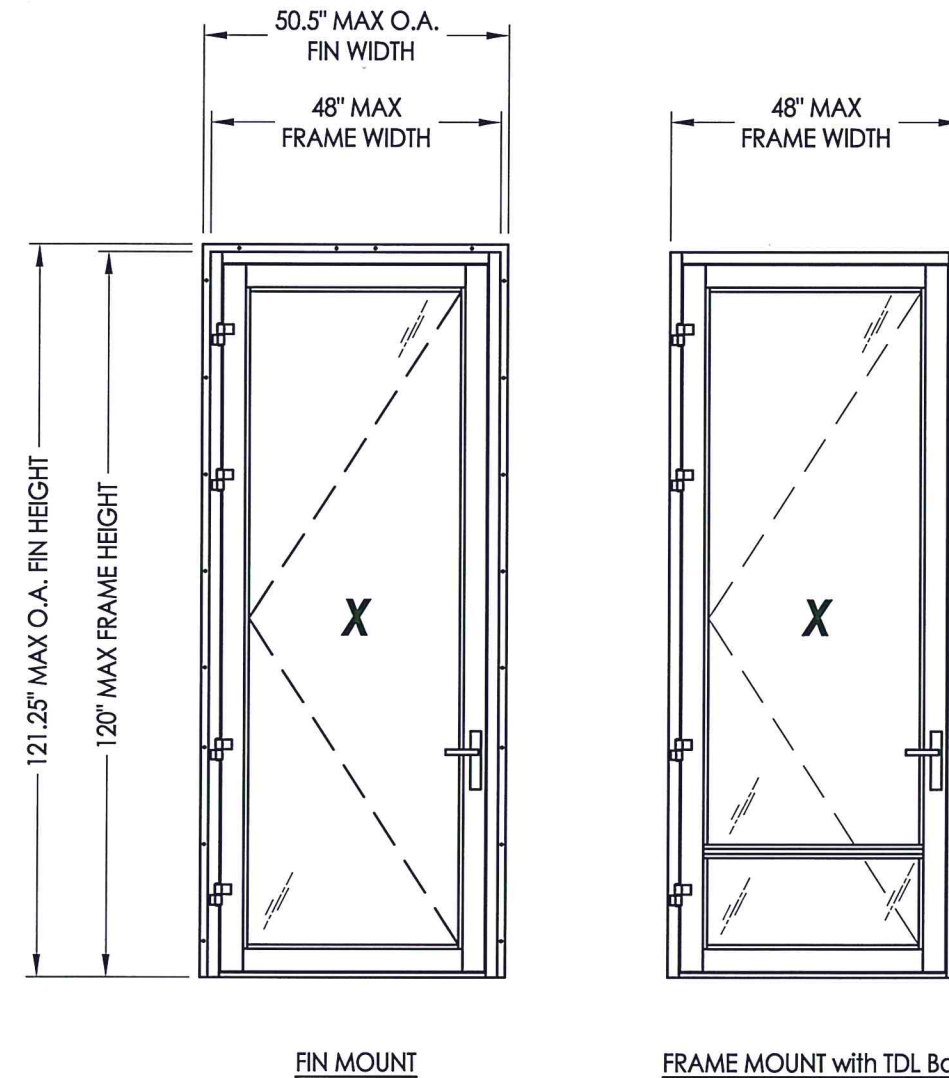
### Inswing/Outswing

### "IMPACT"

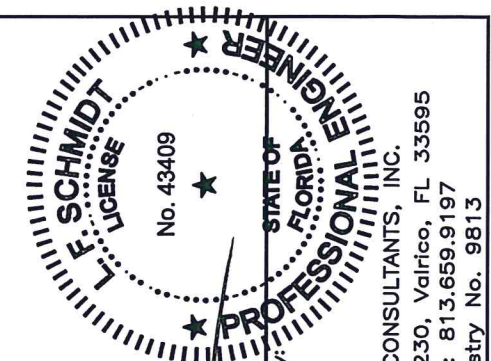
**GENERAL NOTES**

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.
9. Gaskets shall comply with FBC Section 2411.3.4.

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2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Fin horizontal and vertical cross sections
6	Buck and frame anchoring
7	Glazing details
8	Bill of materials and components



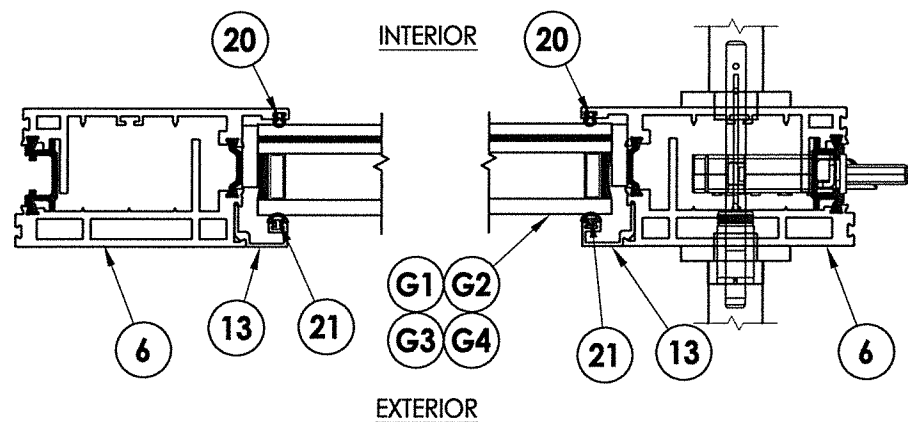
SWING	MAX O.A. FIN DIMENSION	MAX O.A. FRAME DIMENSION	MAX DOOR D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
INSWING	44.5" X 121.25"	42.0" X 120.0"	29.0" X 108.0"	G1, G2 G3, G4	+55.0	-60.0
OUTSWING	50.5" X 121.25"	48.0" X 120.0"	35.0" X 108.0"		+65.0	-65.0



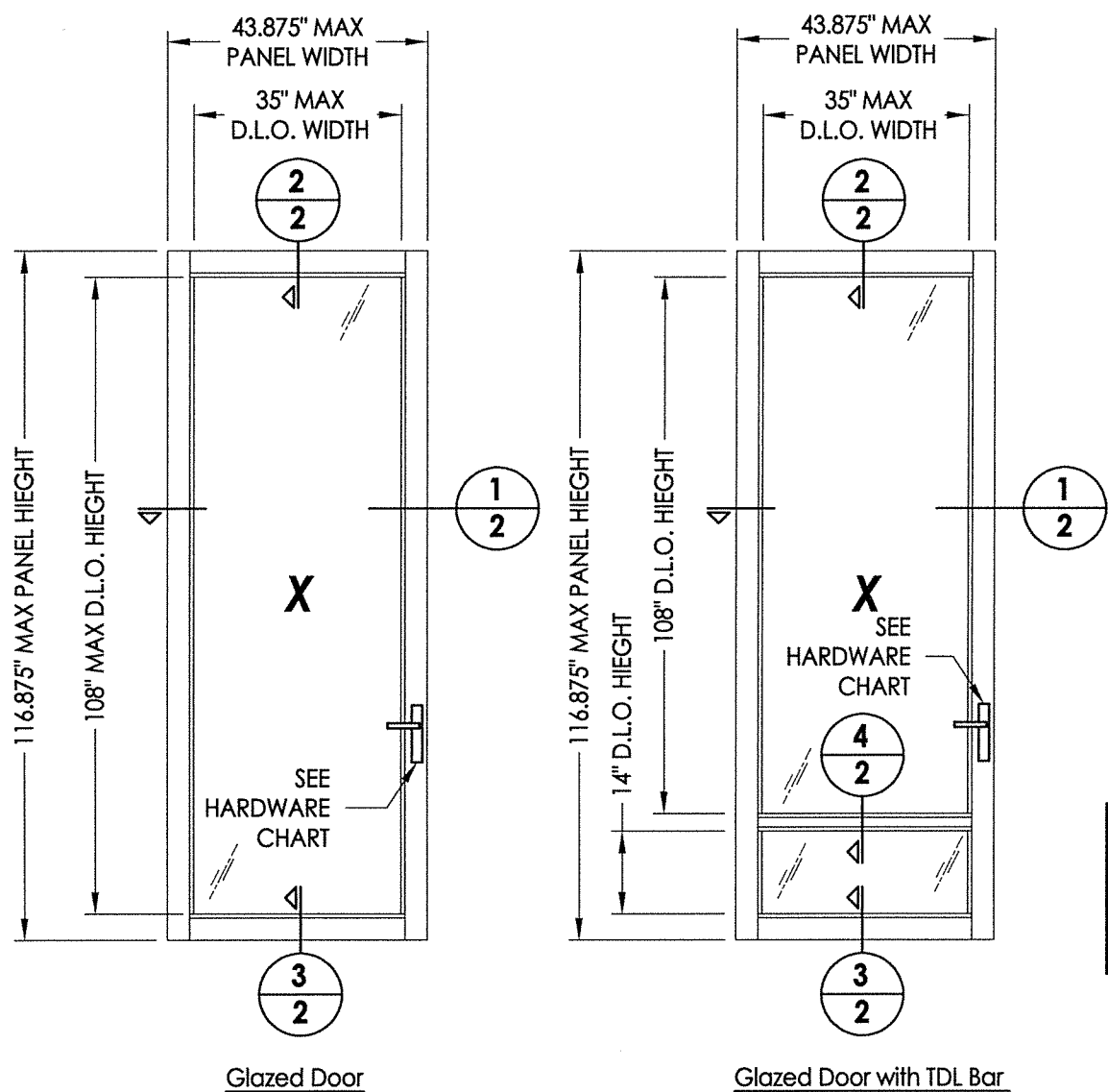
August 11, 2020  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409

PRODUCT:	FLEETWOOD WINDOWS AND DOORS	
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
DATE:	7/22/15	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-17954.1	
SHEET	1 OF 8	

\\dc01\pwb\clients\Fleetwood PERMANENTVA - Florida Product Approvals\FL-17954 Side Hinged Door\C - Drawings\FL 17954 (2020)\FL-17954.1.3.4.6.7.dwg

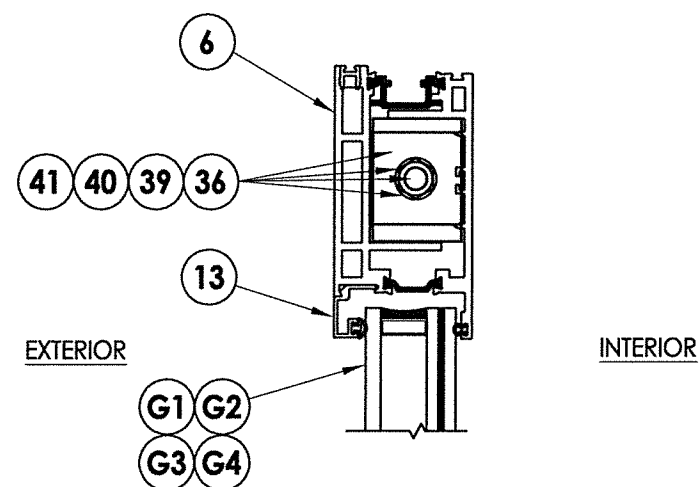


1 HORIZONTAL CROSS SECTION  
2

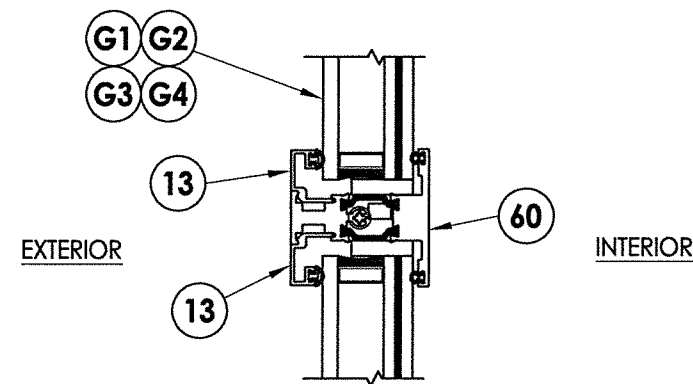


OUTSWING DIMENSIONS SHOWN  
INSWING DIMENSIONS:  
37.875" MAX PANEL WIDTH / 29" MAX D.L.O. WIDTH  
HEIGHT DIMENSIONS SAME AS SHOWN

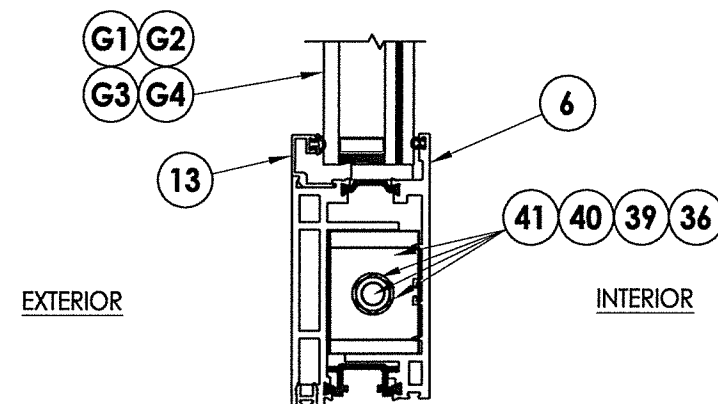
HARDWARE TABLE	
MANUFACTURER	MODEL
TRUTH	MULTI-POINT LOCK: 5 POINT LOCK



2 VERTICAL CROSS SECTION  
2



4 VERTICAL CROSS SECTION  
2



3 VERTICAL CROSS SECTION  
2

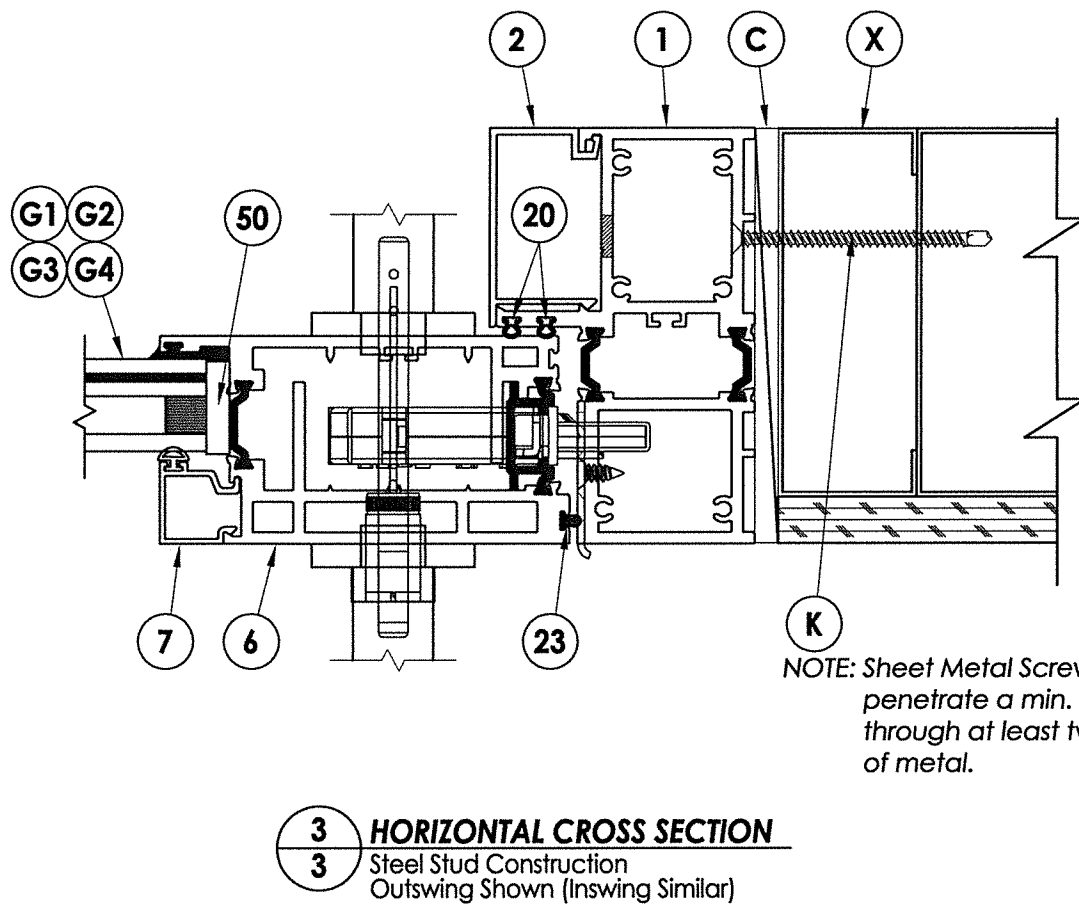
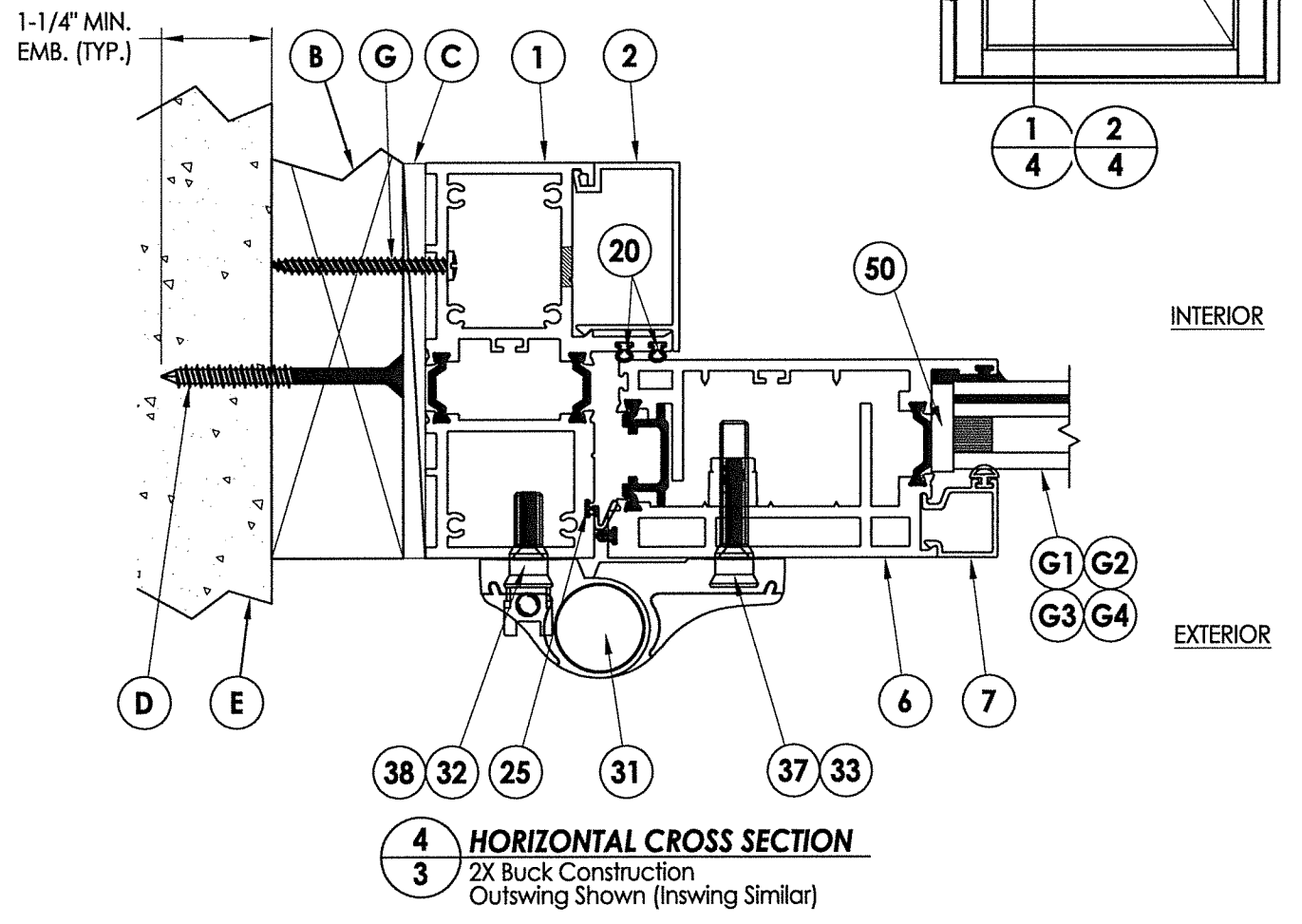
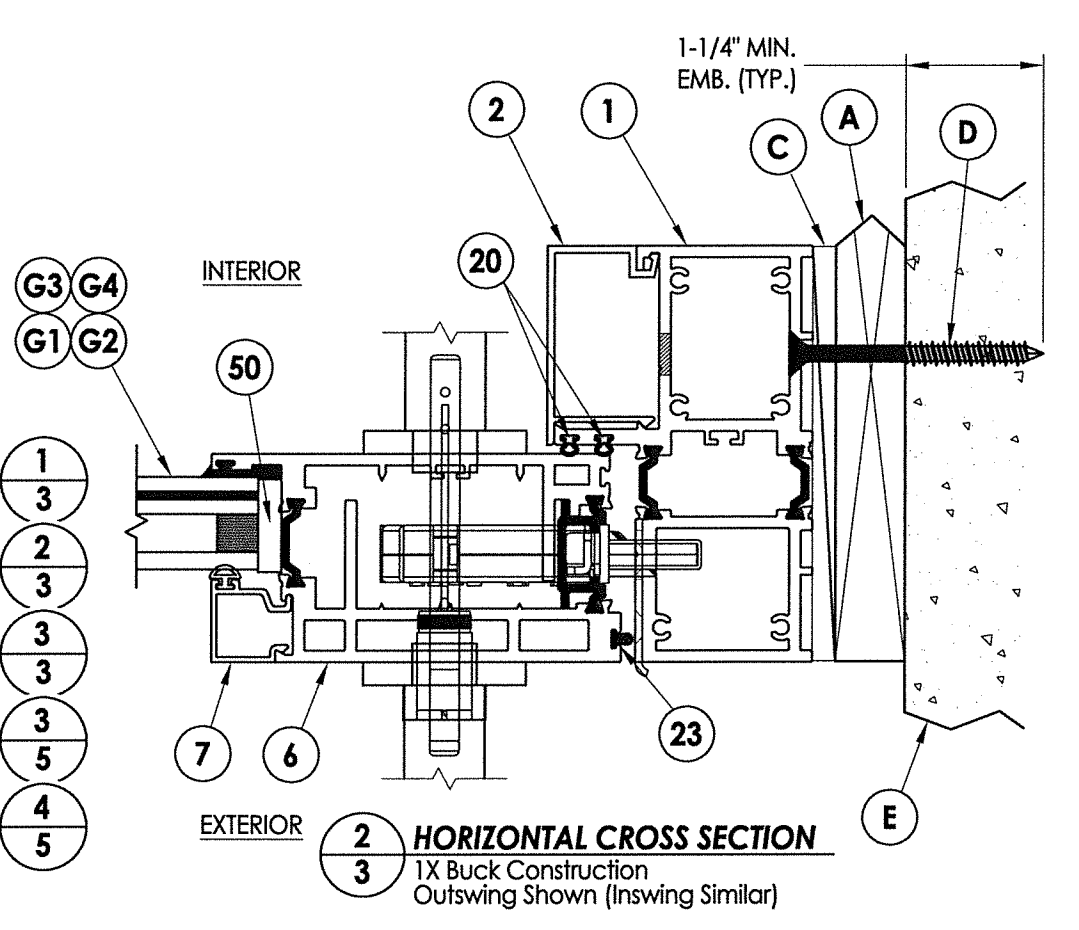
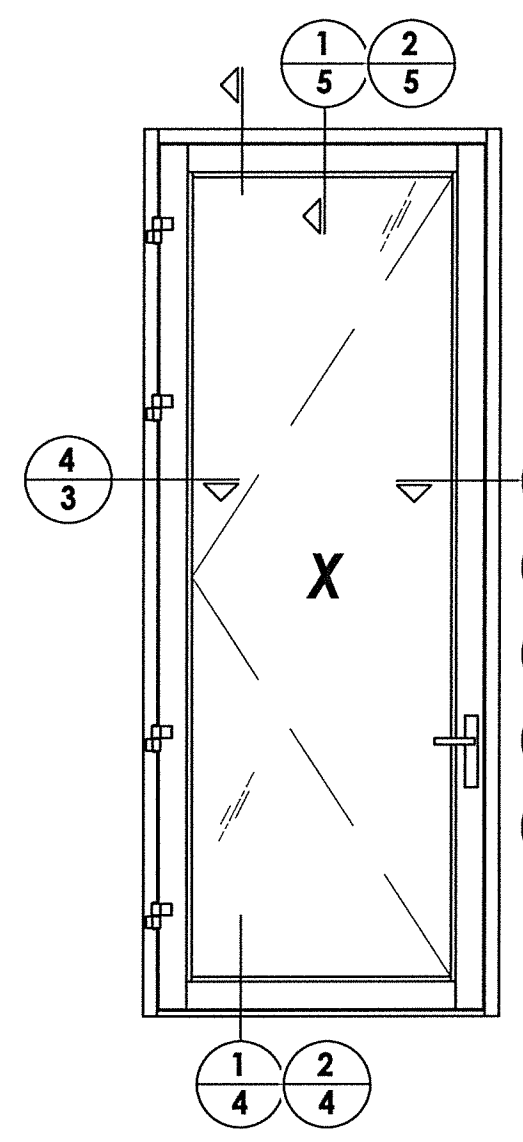
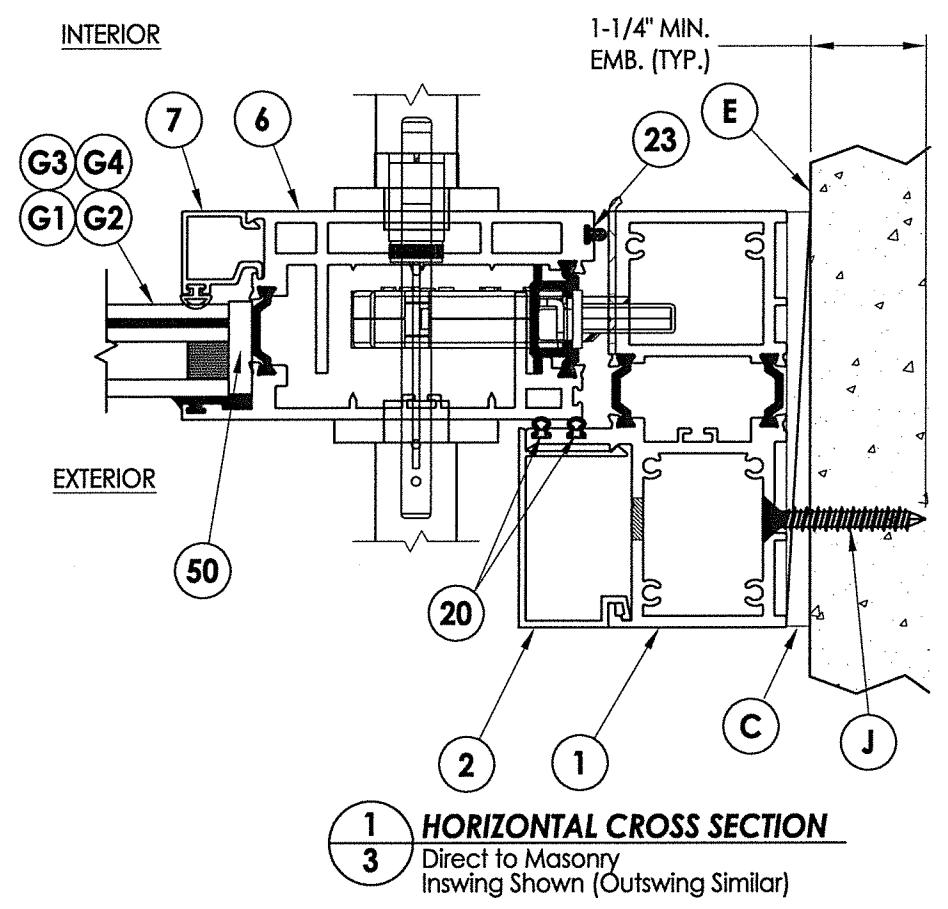
August 11, 2020  
Documents Prepared By: Lyndon F. Schmidt  
P.E. No. 43409

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
L. E. SCHMIDT  
LICENSE No. 43409

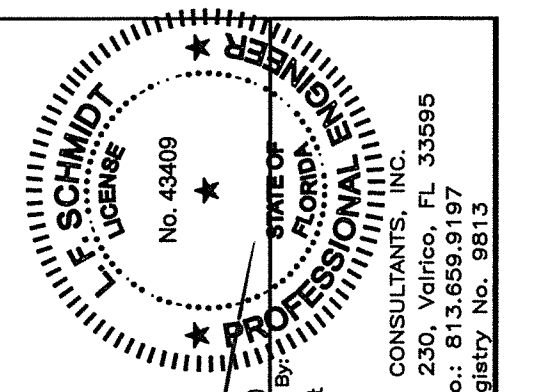
R.W. BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:	FLEETWOOD WINDOWS AND DOORS	
PART OR ASSEMBLY:	DOOR PANEL DETAILS	
DATE:	7/22/15	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-17954.1	
SHEET	2 of 8	
REVISIONS		
NO.	DATE	DESCRIPTION
2	8/11/20	UPDATE TO 7th ED. (2020) FBC
1	08/07/17	UPDATE TO 6TH ED. (2017) FBC

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

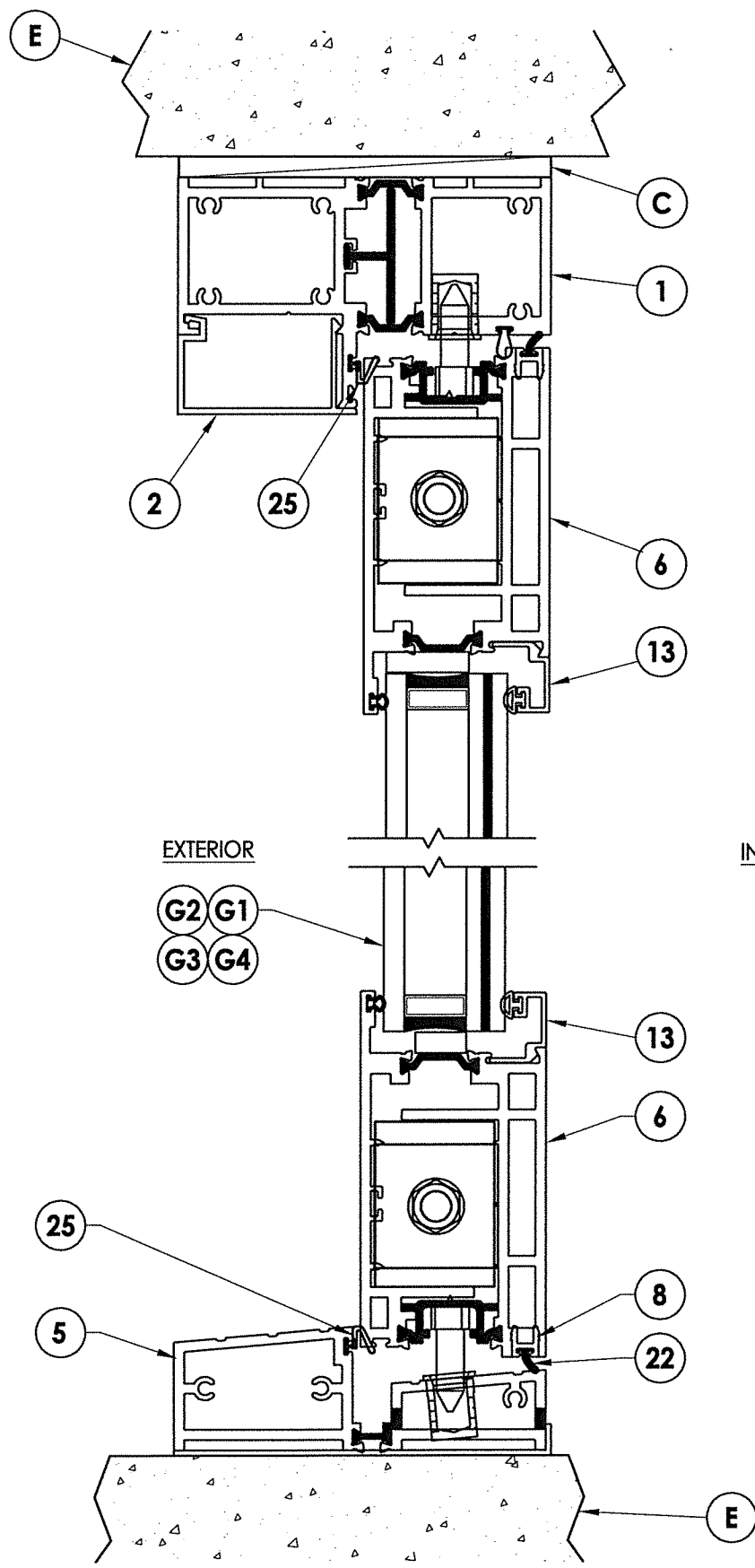


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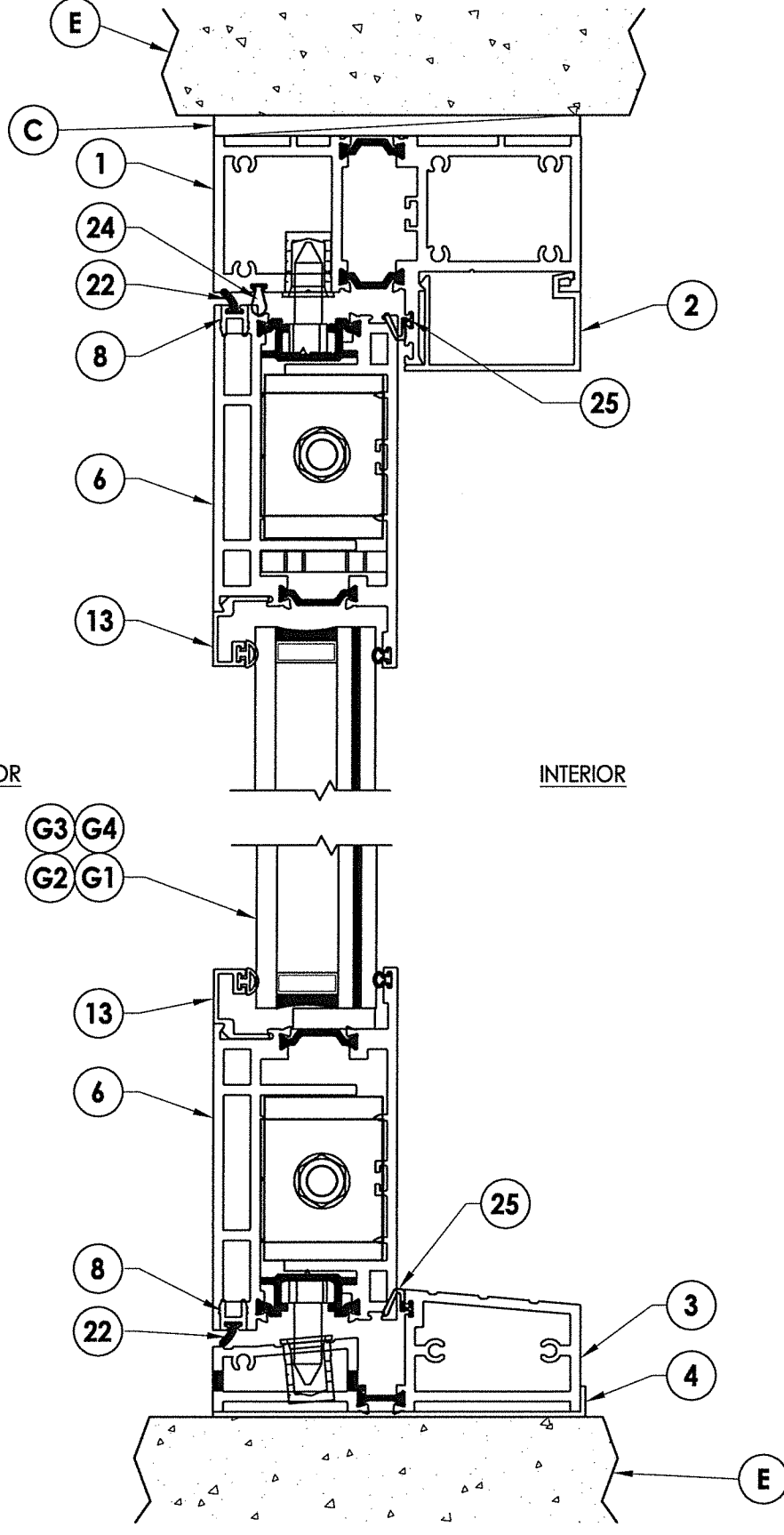
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 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT:	FLEETWOOD WINDOWS AND DOORS	
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS	
DATE:	7/22/15	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-17954.1	
SHEET	3 OF 8	
NO.	DATE	REVISIONS
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1	08/07/17	UPDATE TO 6TH ED. (2017) FBC

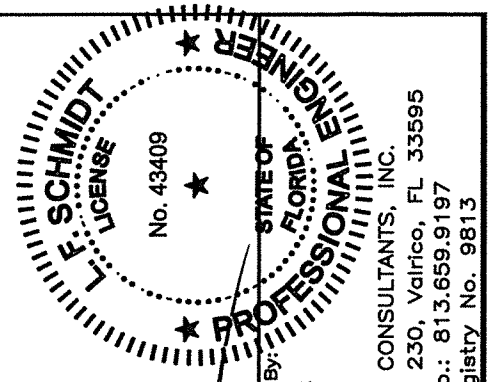
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**1** VERTICAL CROSS SECTION  
**4** Inswing Shown



**2** VERTICAL CROSS SECTION  
**4** Outswing Shown



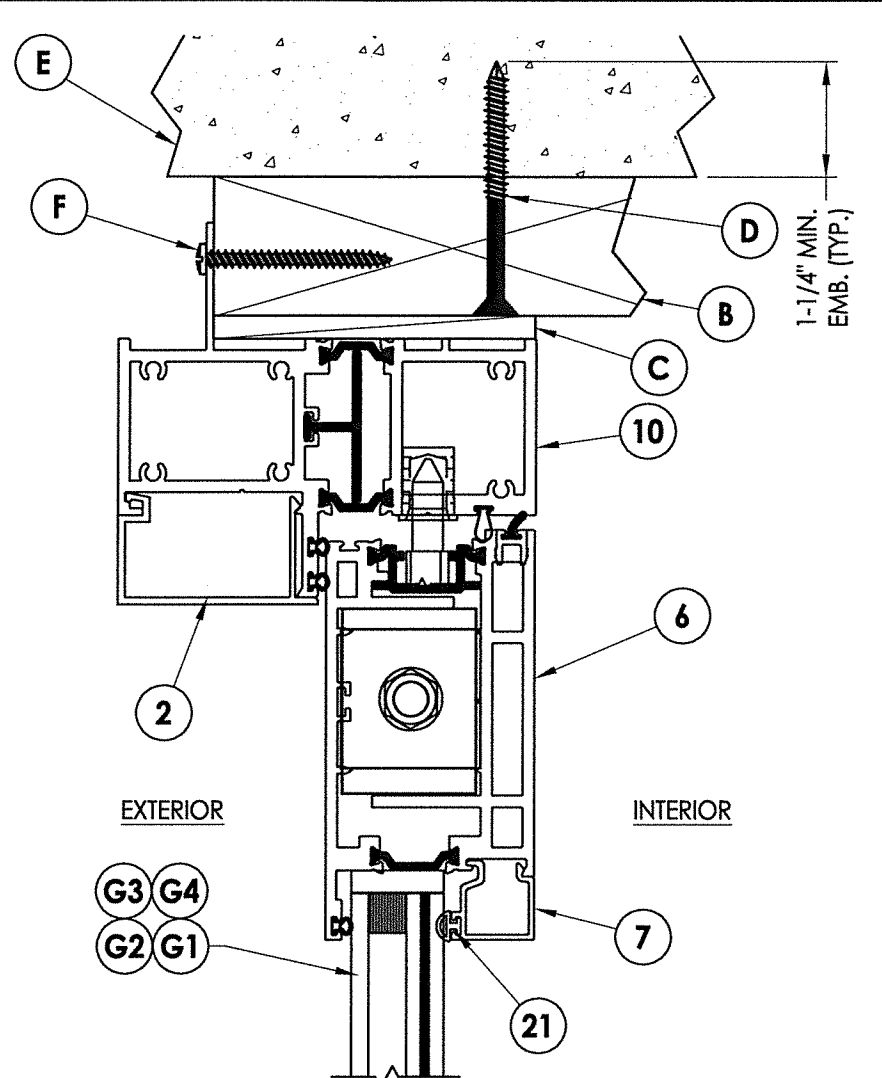
August 11, 2020  
 Documents Prepared By:  
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 P.E. No. 43409  
 R.W. BUILDING CONSULTANTS, INC.  
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 Phone No.: 813.659.9197  
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FLEETWOOD WINDOWS AND DOORS		PART OR ASSEMBLY:	
NO.	DATE	REVISIONS	
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1	08/07/17	UPDATE TO 6th ED. (2017)	FBC
			LFS

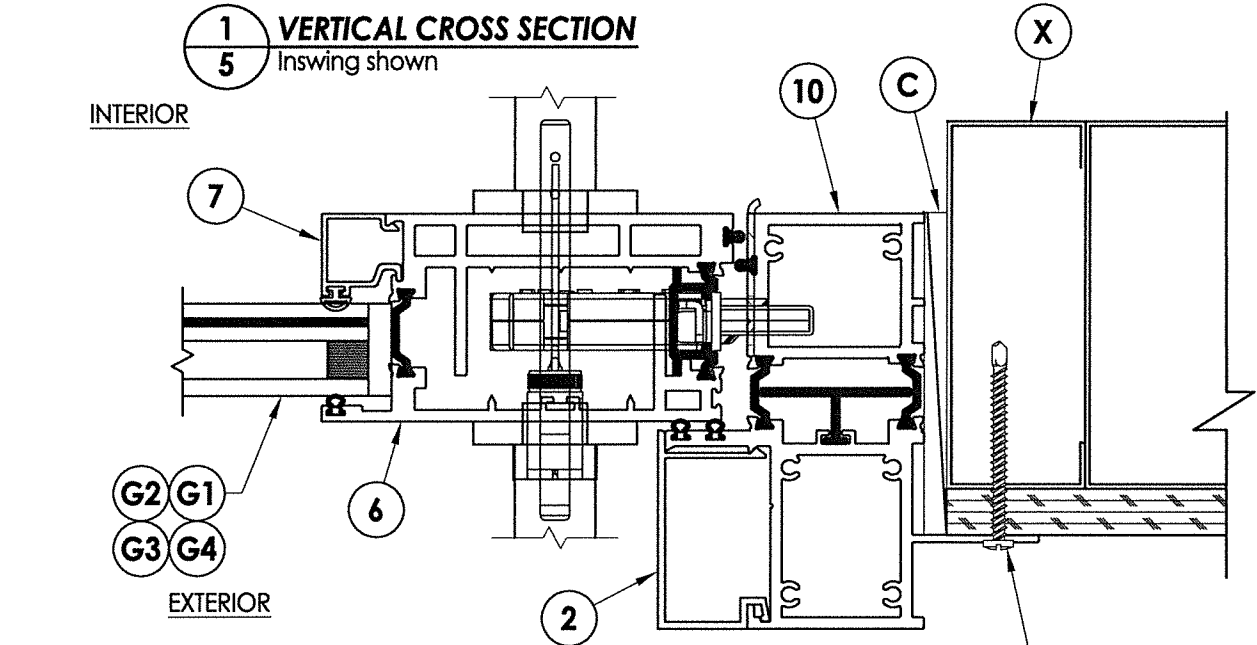
  

DATE:	7/22/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17954.1
SHEET	4 of 8

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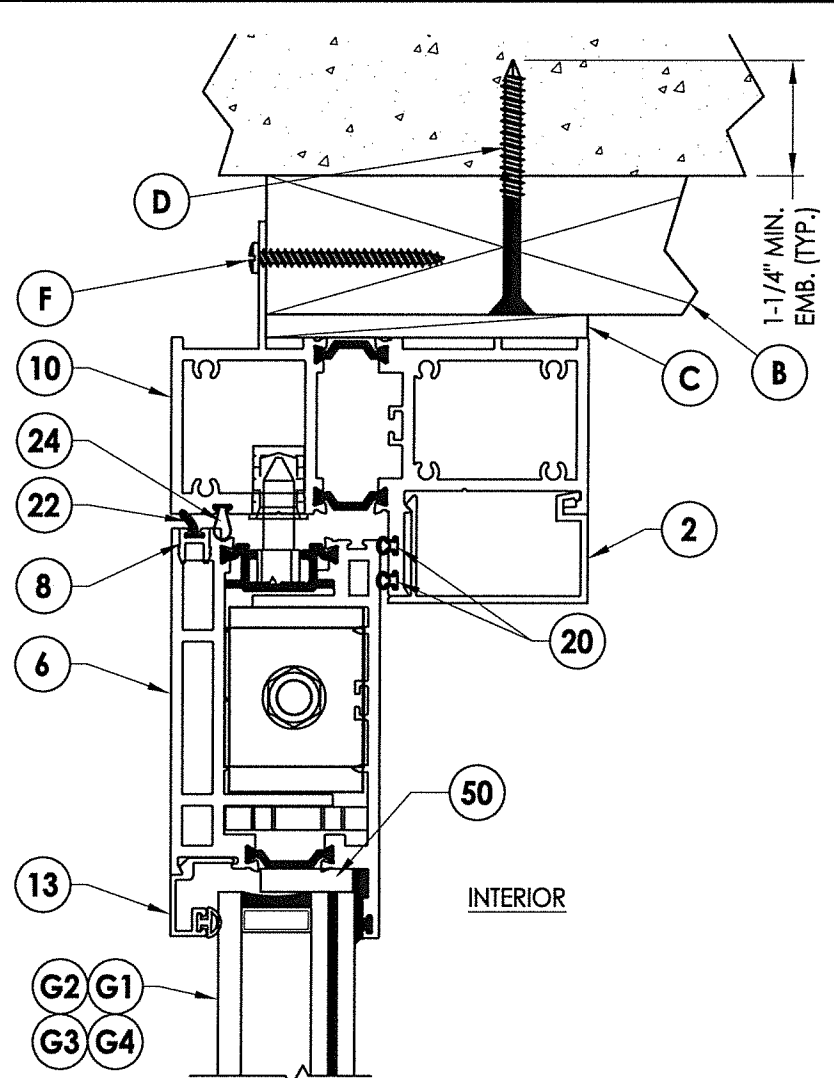


**1 VERTICAL CROSS SECTION**  
5 Inswing shown

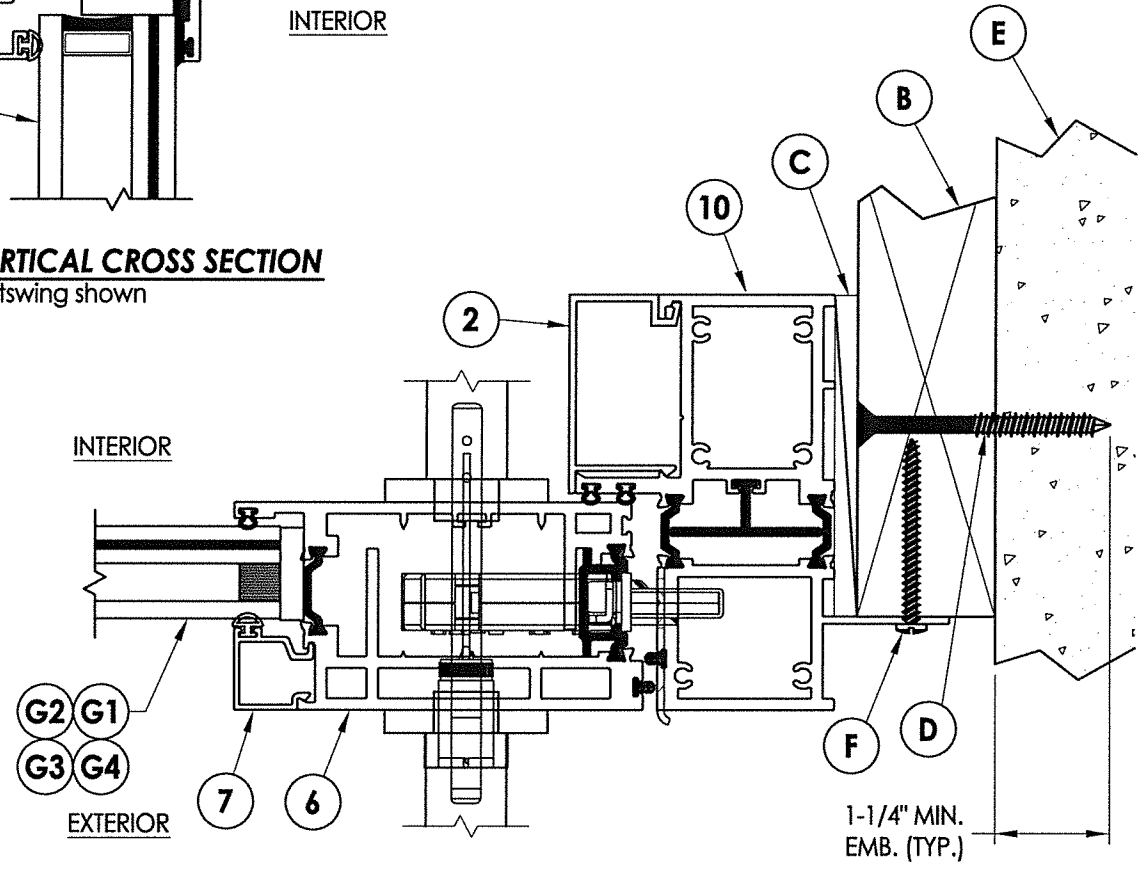


**3 HORIZONTAL CROSS SECTION**  
5 Steel Stud Construction  
Inswing shown

**K** NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through metal stud.



**2 VERTICAL CROSS SECTION**  
5 Outswing shown



**4 HORIZONTAL CROSS SECTION**  
5 2X Buck Construction  
Outswing shown

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

August 11, 2020  
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

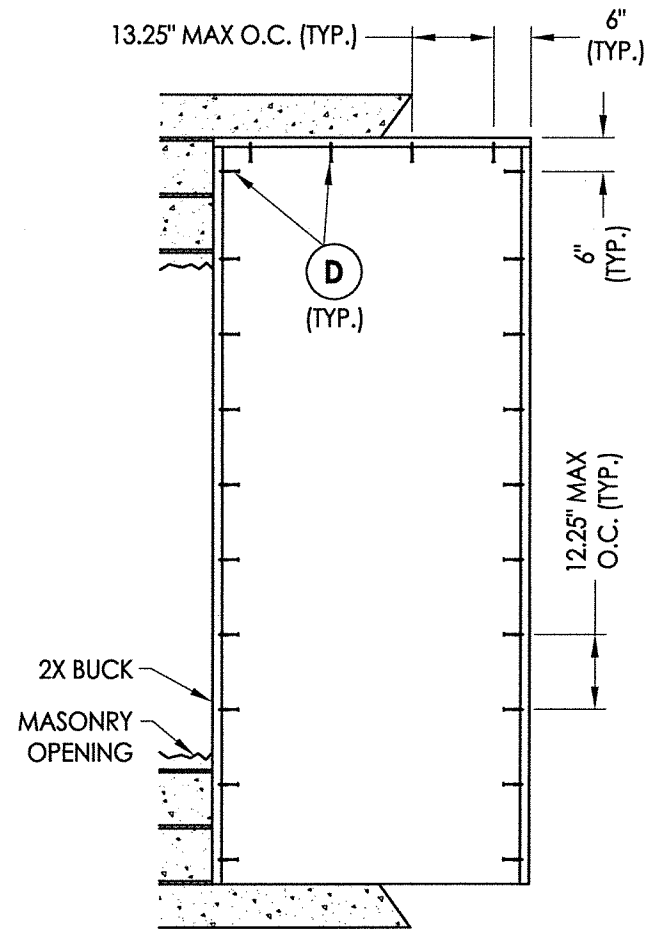
FLEETWOOD WINDOWS AND DOORS	PART OR ASSEMBLY: FIN HORIZONTAL AND VERTICAL CROSS SECTIONS
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NO.	DATE	REVISIONS
2	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
1	08/07/17	UPDATE TO 6TH ED. (2017) FBC LFS

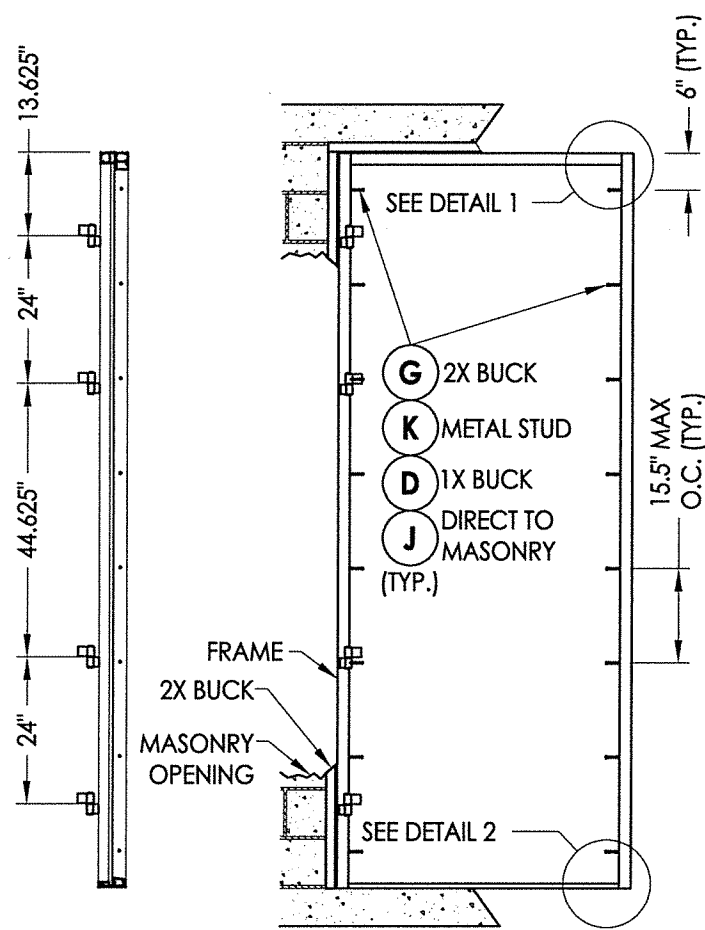
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SCALE: N.T.S.
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CHK. BY: LFS
DRAWING NO.: FL-17954.1
SHEET 5 OF 8

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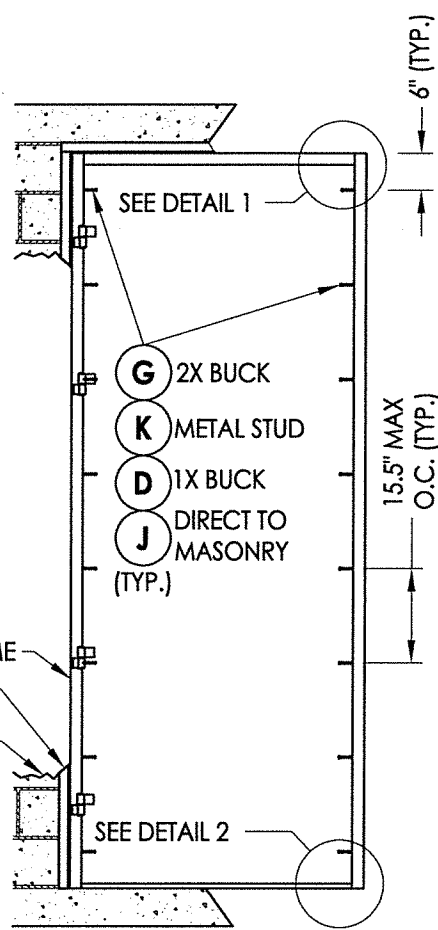
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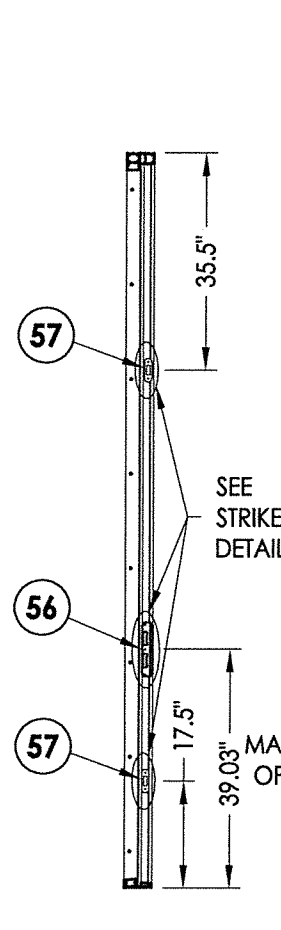
**2X BUCK ANCHORING**



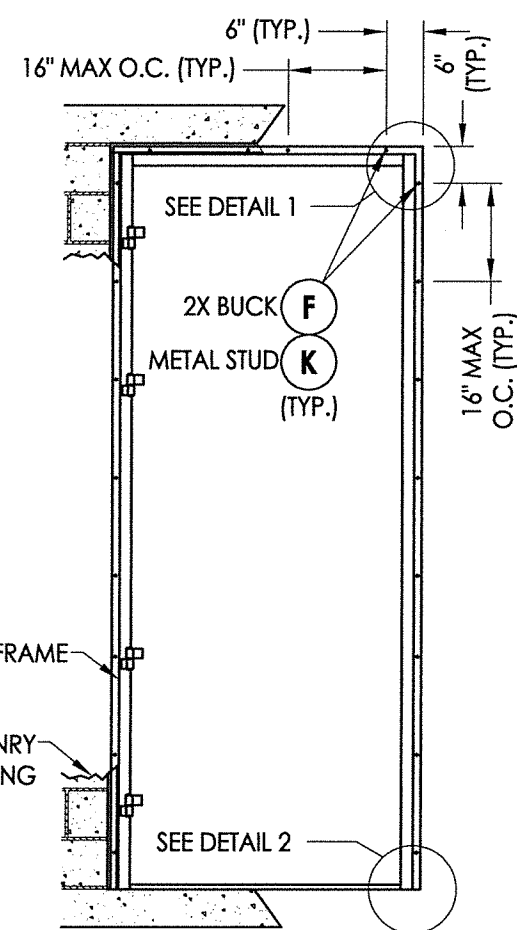
**HINGE DETAIL**



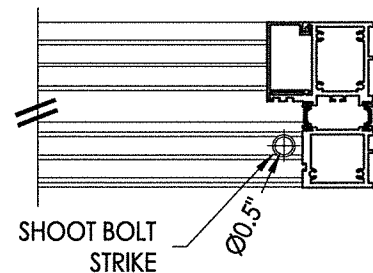
**FRAME ANCHORING**



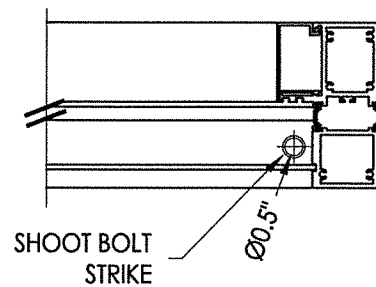
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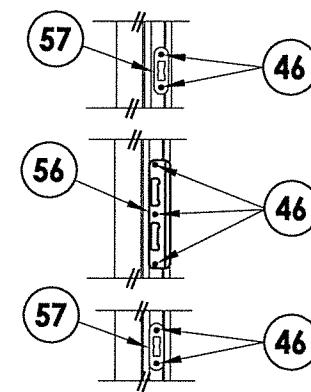
**FIN ANCHORING**



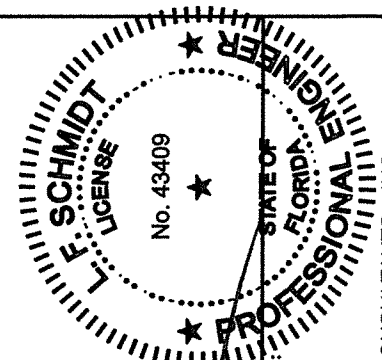
**DETAIL 2**



**DETAIL 1**



**STRIKE DETAIL**



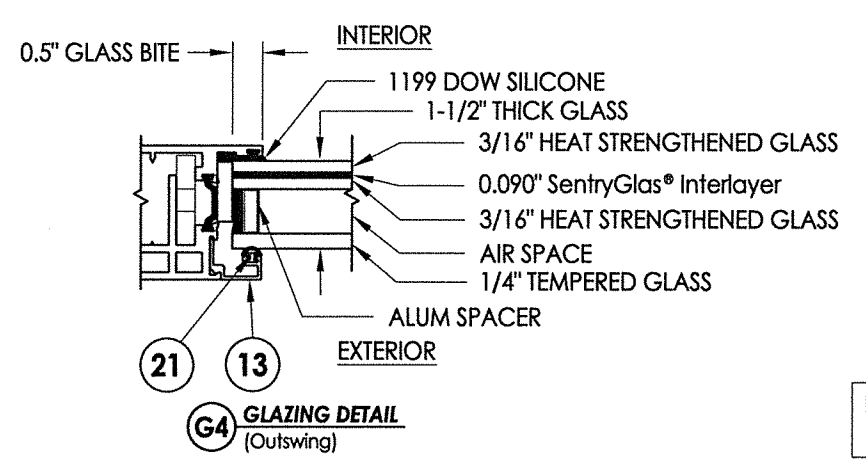
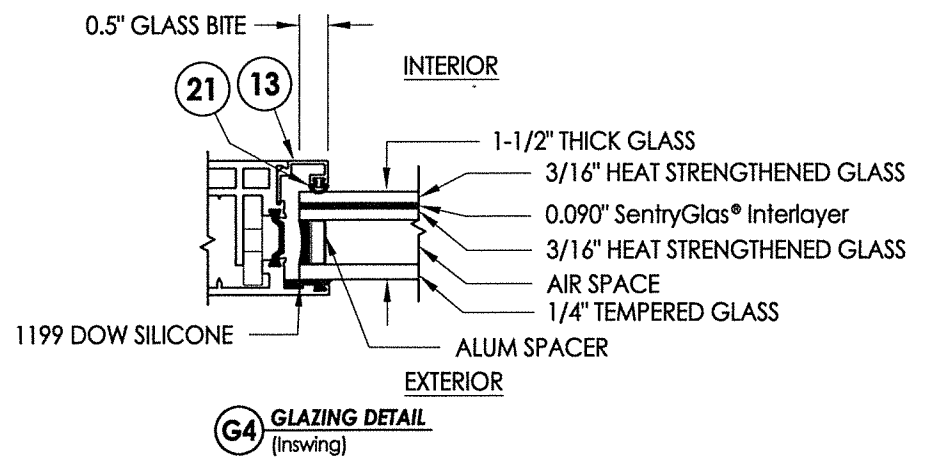
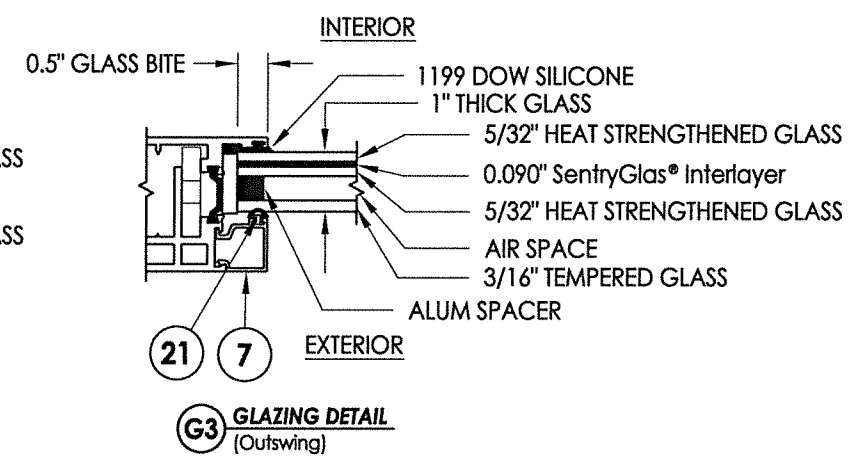
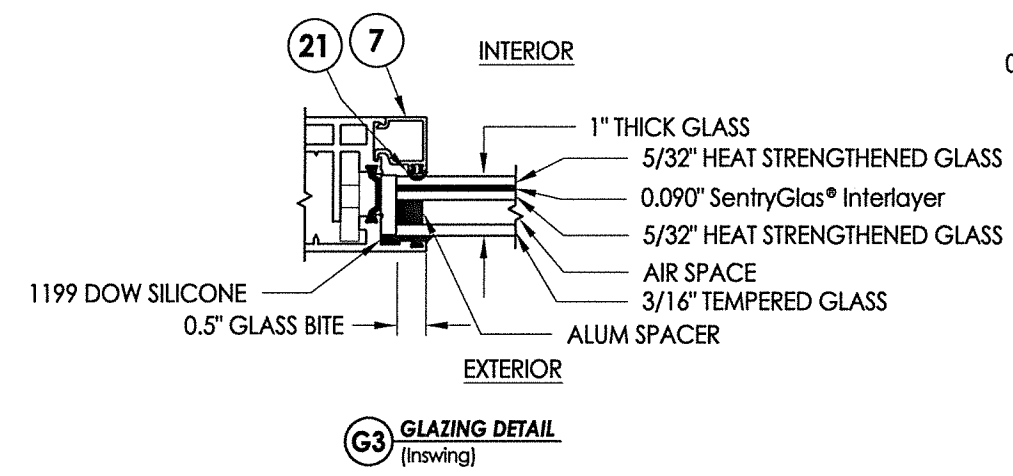
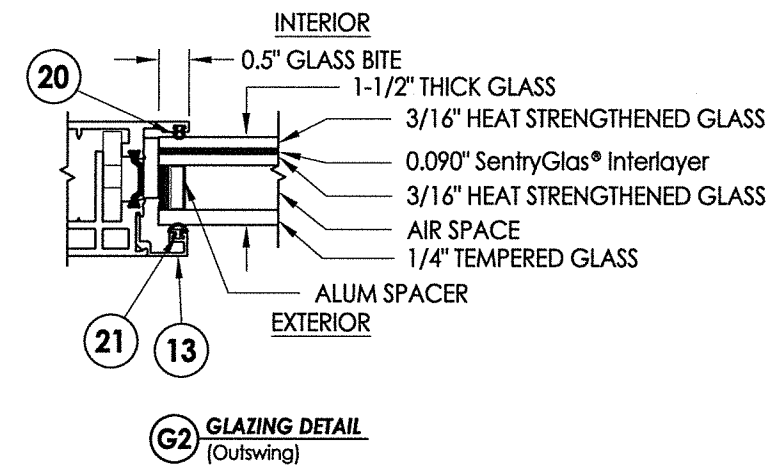
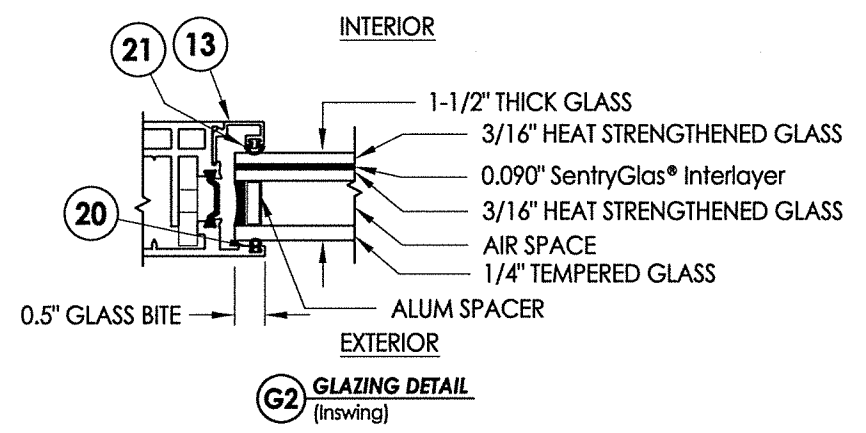
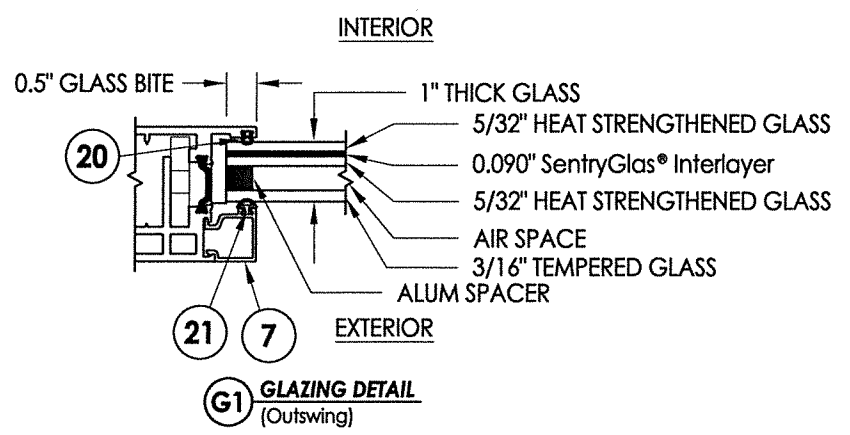
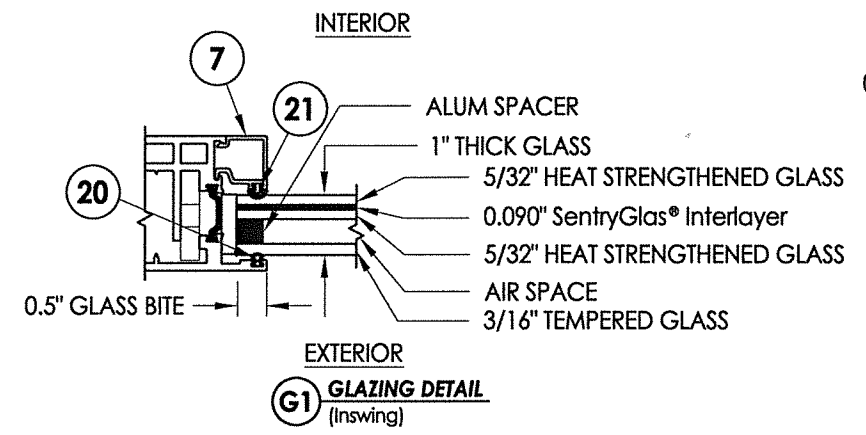
August 11, 2020  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409

**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 AND FRAME ANCHORING	
NO.	DATE	BY	REVISIONS
2	8/11/20	DAC	UPDATE TO 7TH ED. (2020) FBC
1	08/07/17	LFS	UPDATE TO 6TH ED. (2017) FBC

DATE: 7/22/15  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-17954.1  
 SHEET 6 OF 8

\\dc01\nwbc\Clients\Fleetwood PERMANENTA - Florida Product Approvals\FL-17954 Side Hinged Door\C - Drawings\FL-17954.1.3.4.6.7.dwg



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

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

August 11, 2020  
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

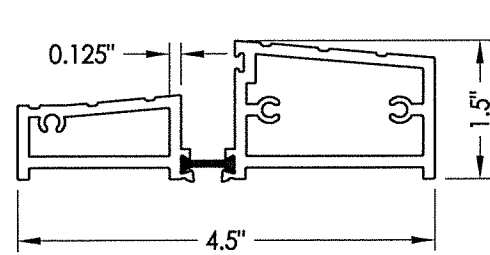
**R.W.**  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:		FLEETWOOD WINDOWS AND DOORS	
PART OR ASSEMBLY:		GLAZING DETAILS	
NO.	DATE	BY	REVISIONS
2	8/11/20	DAC	UPDATE TO 7th ED. (2020) FBC
1	08/07/17	LFS	UPDATE TO 6TH ED. (2017) FBC
DATE: 7/22/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-17954.1			
SHEET 7 OF 8			

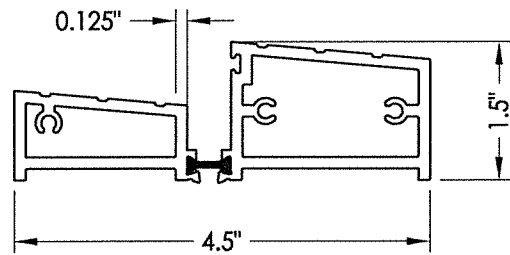
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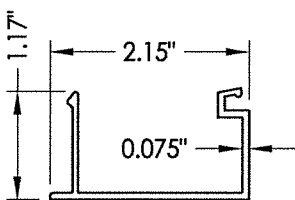
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL - MANUFACTURER
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 x 1-3/4" PPH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
G	#10 x 2" PPH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
J	1/4" X 2-1/4" ITW PFH CONCRETE SCREW	STEEL
K	#10 FH SELF-DRILLING SMS	STEEL
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)	STEEL
1	FRAME	6063-T6 ALUM
2	FRAME SNAP-IN	6063-T6 ALUM
3	OUTSWING SILL	6063-T6 ALUM
4	SILL PAN	6063-T6 ALUM
5	INSWING SILL	6063-T6 ALUM
6	SASH	6063-T6 ALUM
7	1" GLASS STOP	6063-T6 ALUM
8	ATLANTIC SEAL CLIP	6063-T6 ALUM
10	FRAME (FIN)	6063-T6 ALUM
13	1.5" GLASS STOP	6063-T6 ALUM
20	BULB VINYL - MINI (EPDM 70 Durometer)	TREMCO, # TX20801E
21	BULB VINYL - LARGE (EPDM 70 Durometer)	TREMCO, # TX19638E
22	FOAM SEAL	EMESBURY, # 32390
23	Q-LON FOAM SEAL	SCHLEGEL CORP., # Q225T190
24	Q-LON FOAM SEAL	SCHLEGEL CORP., # Q375T190
25	Q-LON FOAM SEAL	SCHLEGEL CORP., # QEZ 376
31	BUTT HINGE	SAVIO
32	BACK UP KIT	SAVIO
33	HINGE BOLT, 8M X 48MM (FOR PANEL)	SAVIO
36	BACK UP PLATE FOR CORNER BLOCK	-
37	MACHINE SCREW NO 10-32, FHP 1.125"	STAINLESS STEEL
38	MACHINE SCREW NO 10-32, FHP .75"	STAINLESS STEEL
39	HEX HEAD CAP SCREW .375-16, 2.250"	STAINLESS STEEL
40	.375-16 SS. HEX NUT	STAINLESS STEEL
41	.375 SPLIT LOCK WASHER	STAINLESS STEEL
46	#10 X 1/2" PFH SMS	STAINLESS STEEL
50	4" LONG SETTING BLOCK	-
56	LATCH AND DEADBOLT STRIKE PLATE	STAINLESS STEEL
57	STRIKE PLATE	STAINLESS STEEL
60	TDL BAR	6063-T6 ALUM



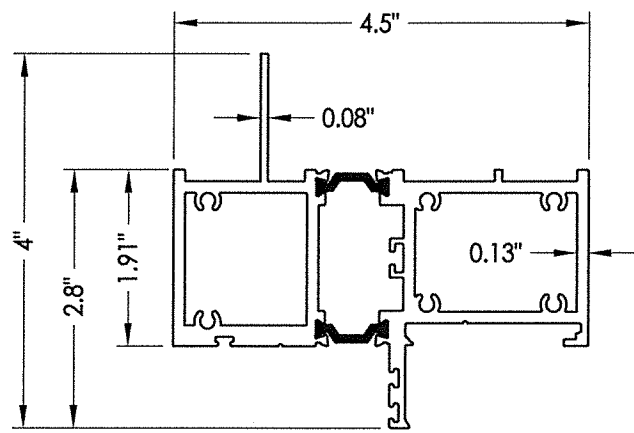
3 OUTSWING SILL



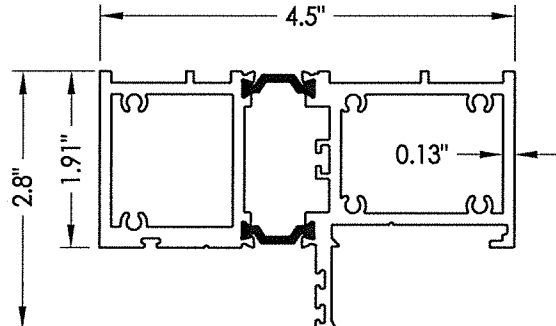
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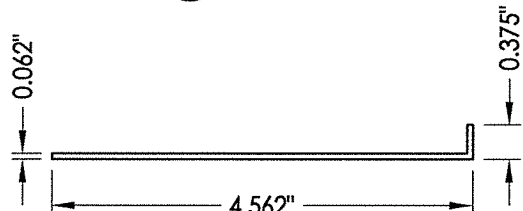
2 FRAME SNAP-IN



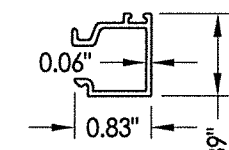
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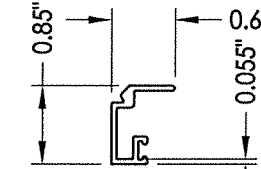
1 FRAME



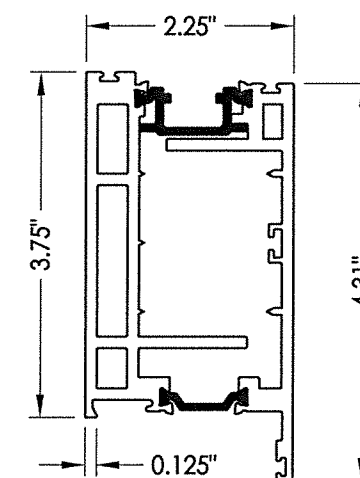
4 SILL PAN



7 1" GLASS STOP



13 1.5" GLASS STOP



6 SASH

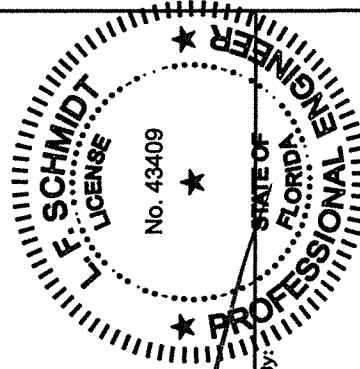
**CONCRETE ANCHOR NOTES:**

- 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"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

**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.



August 11, 2020  
 Documents Prepared By:  
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PRODUCT: FLEETWOOD WINDOWS AND DOORS  
 PART OR ASSEMBLY: BILL OF MATERIALS AND COMPONENTS

NO.	DATE	BY	REVISIONS
2	8/11/20	FBC	UPDATE TO 7th ED. (2020)
1	108/07/17	LFS	UPDATE TO 6TH ED. (2017)

DATE: 7/22/15  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-17954.1  
 SHEET 8 OF 8