

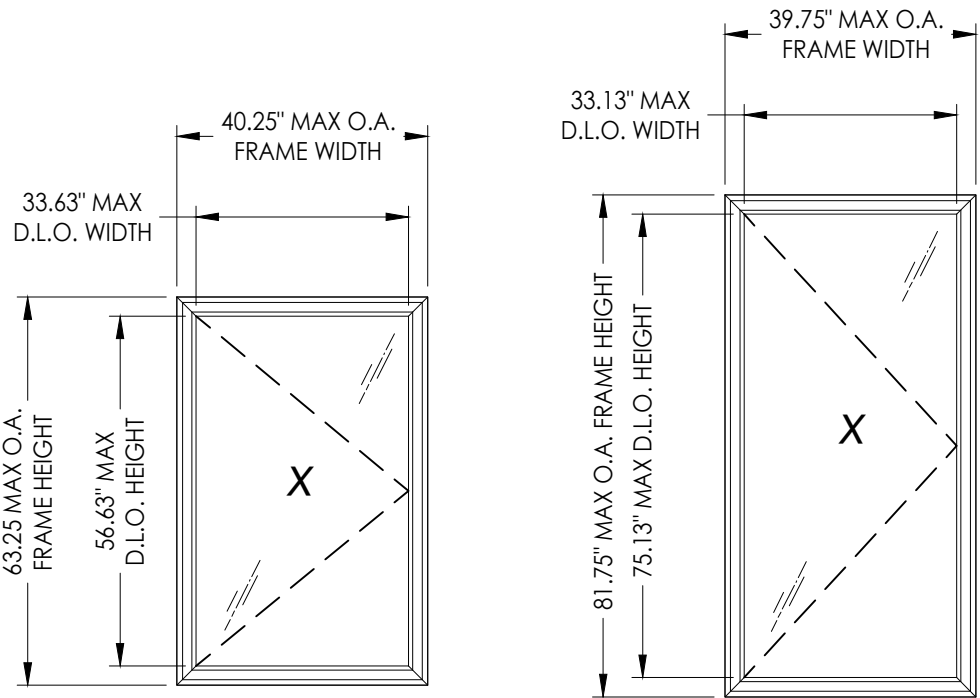


Series 350-T
Aluminum Casement Window
w/ Thermal Break Frame
"IMPACT"

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.

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, G6	+65.0	-65.0
39.75" X 81.75"	33.13" X 75.13"	G1, G2, G3, G4, G5, G6	+65.0	-65.0

Digitally signed by Lyndon F Schmidt
Date: 2023.07.12 10:03:15 -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

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:

10/23/13

SCALE:

N.T.S.

DWG. BY:

JK

CHK. BY:

LFS

DRAWING NO.:

FL-14904.10

SHEET

1

OF

8

REVISIONS

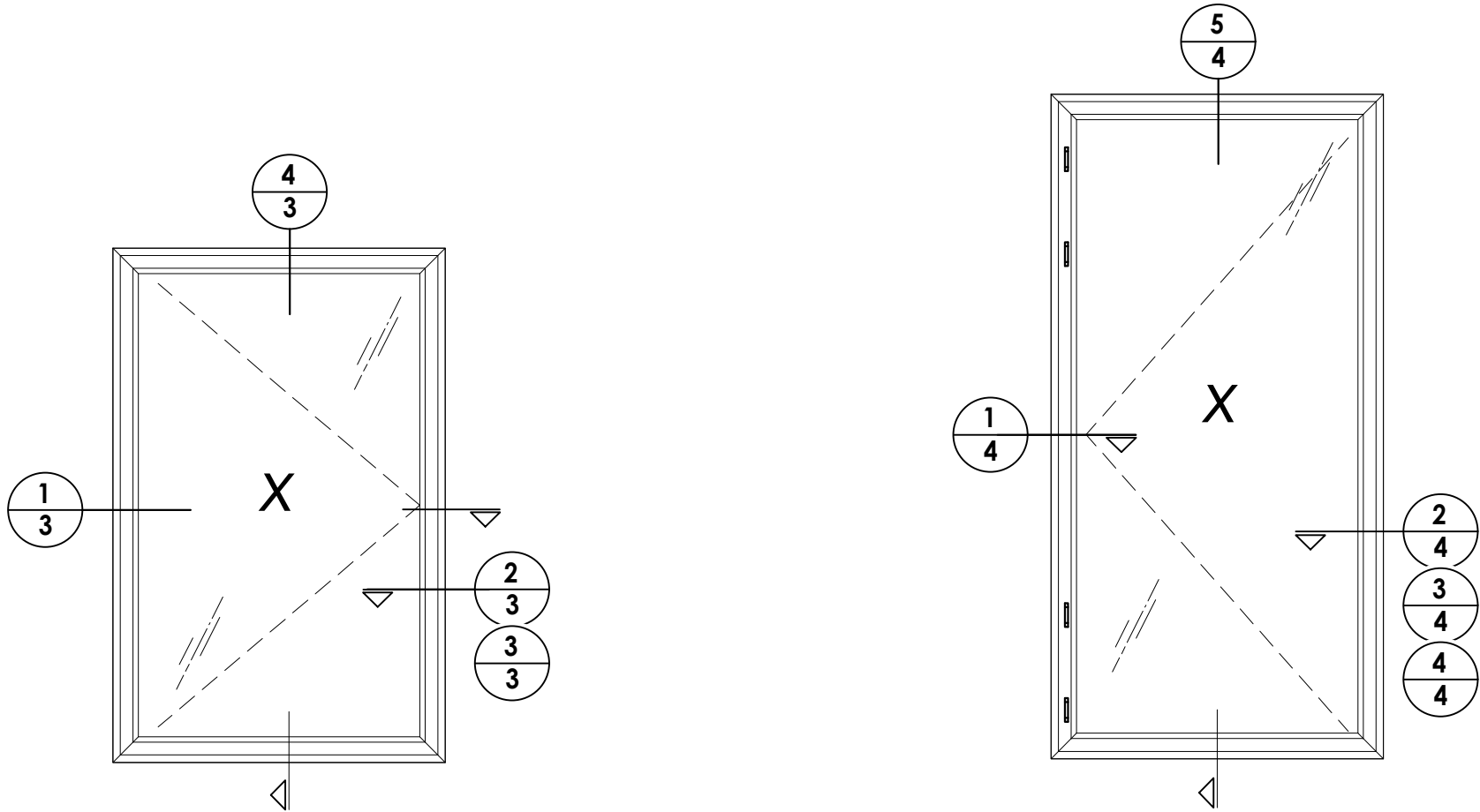
NO.	DATE	REVISIONS
6	7/12/23	UPDATE TO 8TH ED. (2023) FBC
5	12/7/21	SERIES NAME CHANGE
4	8/06/20	UPDATE TO 7TH ED. (2020) FBC
3	8/07/17	UPDATE TO 6TH ED. (2017) FBC
2	8/22/16	RENUMBER DRAWINGS
1	1/22/15	UPDATE TO 5TH ED. (2014) FBC

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
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

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14904.10

SHEET 2 OF 8

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

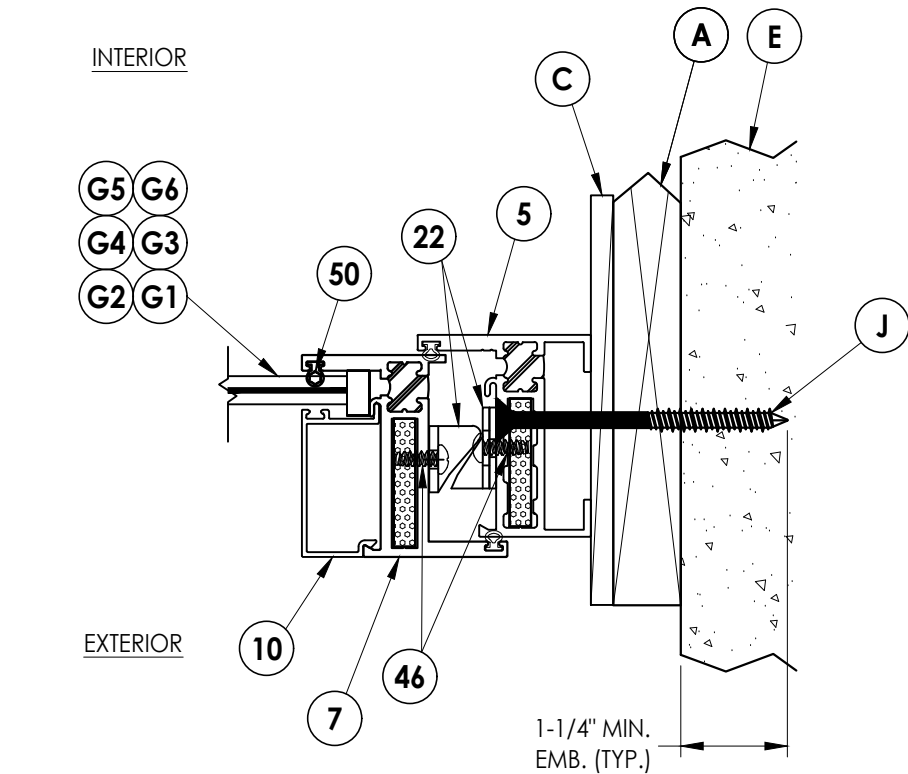
PRODUCT: FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY: ELEVATIONS

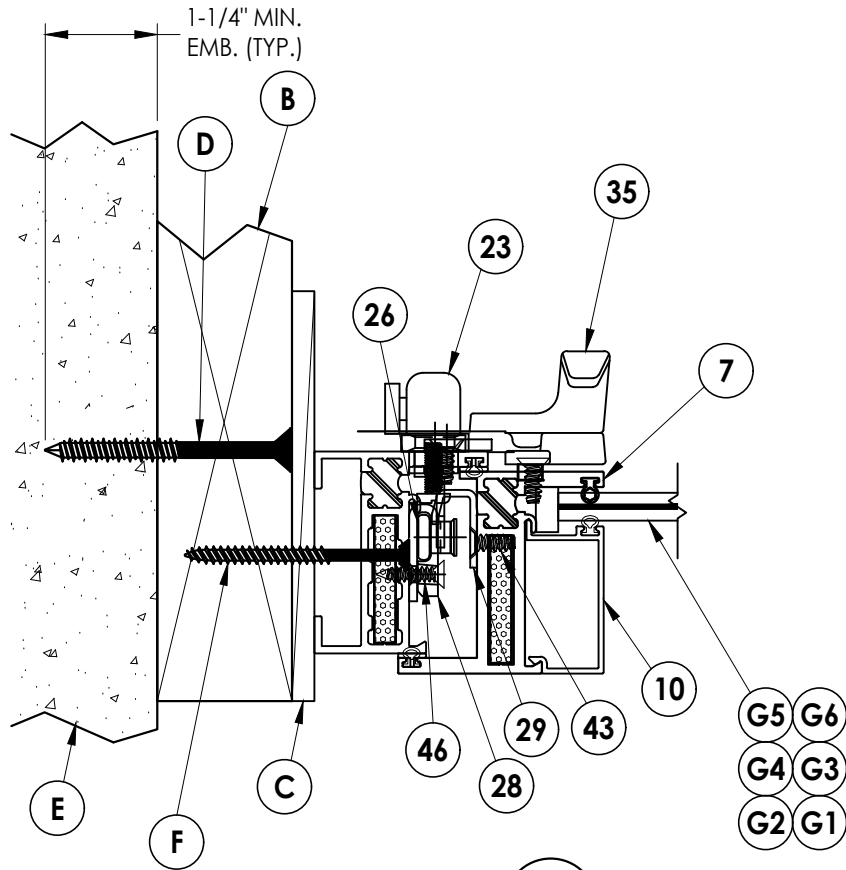
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

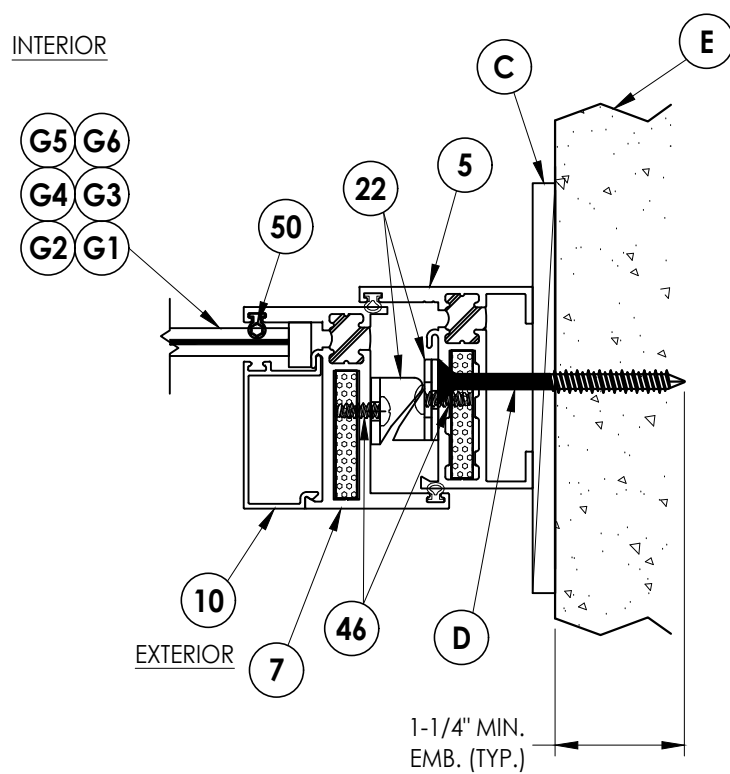
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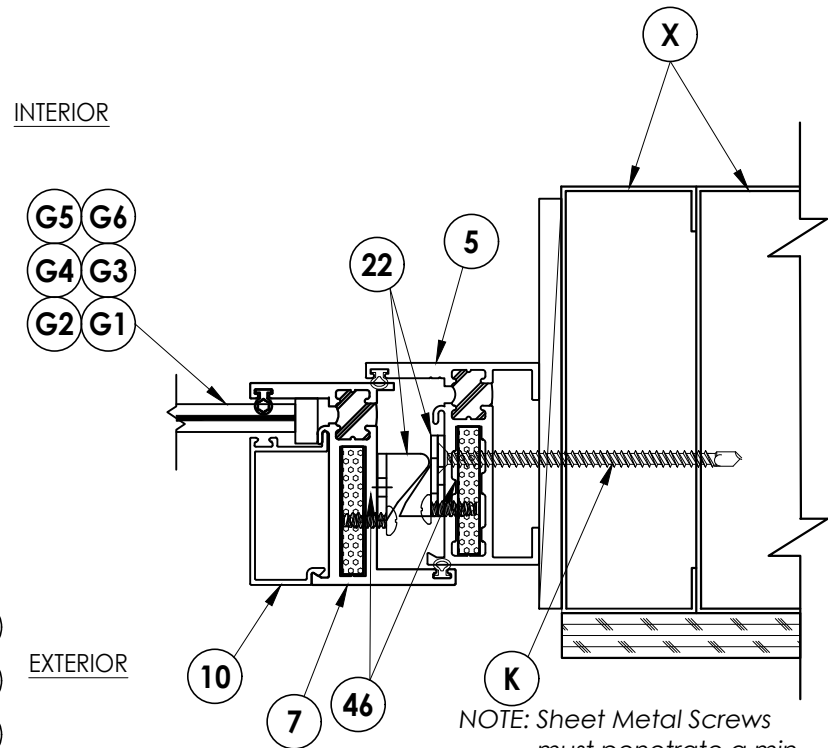
2 **HORIZONTAL CROSS SECTION**
3 Shown w/ 1X Sub buck option



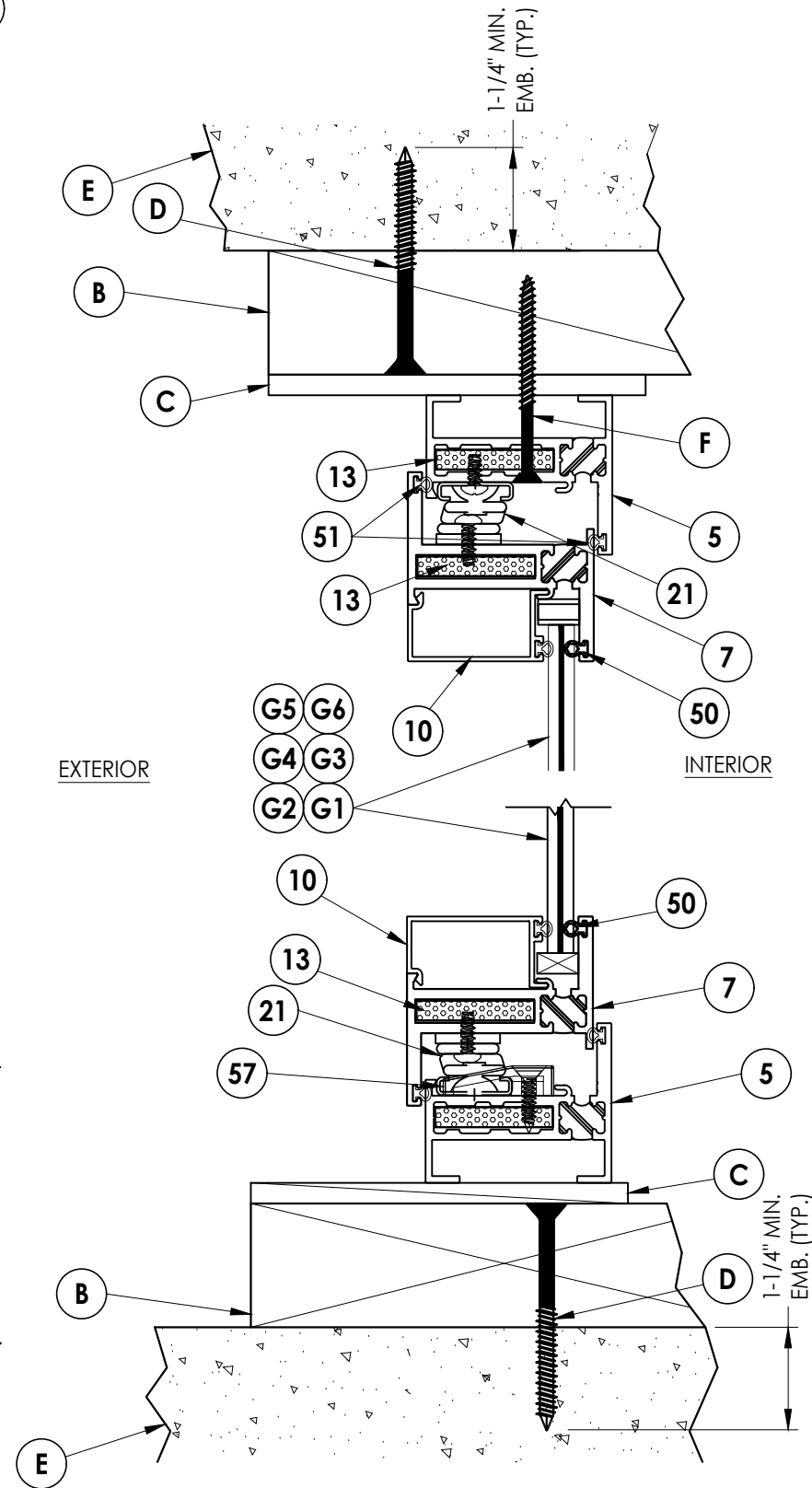
1 **HORIZONTAL CROSS SECTION**
3 Show w/ 2X Buck and Steel Stud options



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

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P.E. No. 43409

PRODUCT:
FLEETWOOD WINDOWS AND DOORS

R^W 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

NO.	DATE	REVISIONS
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 DAC
3	8/07/17	UPDATE TO 6TH ED. (2017) FBC LFS
2	8/22/16	RENUMBER DRAWINGS LFS
1	8/06/17	UPDATE TO 5TH ED. (2014) FBC LFS

DATE: 10/23/13

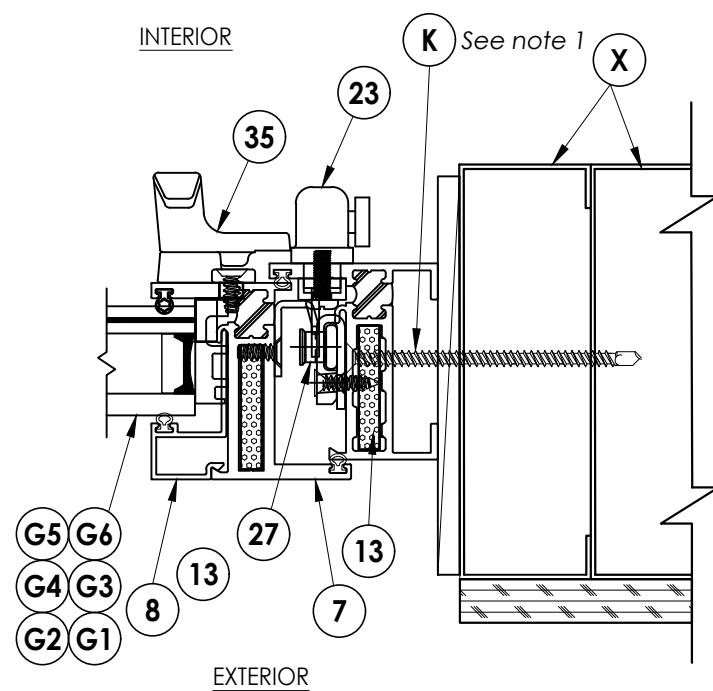
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-14904.10

SHEET 3 OF 8



3 HORIZONTAL CROSS SECTION

4 Shown w/ Steel Stud option

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

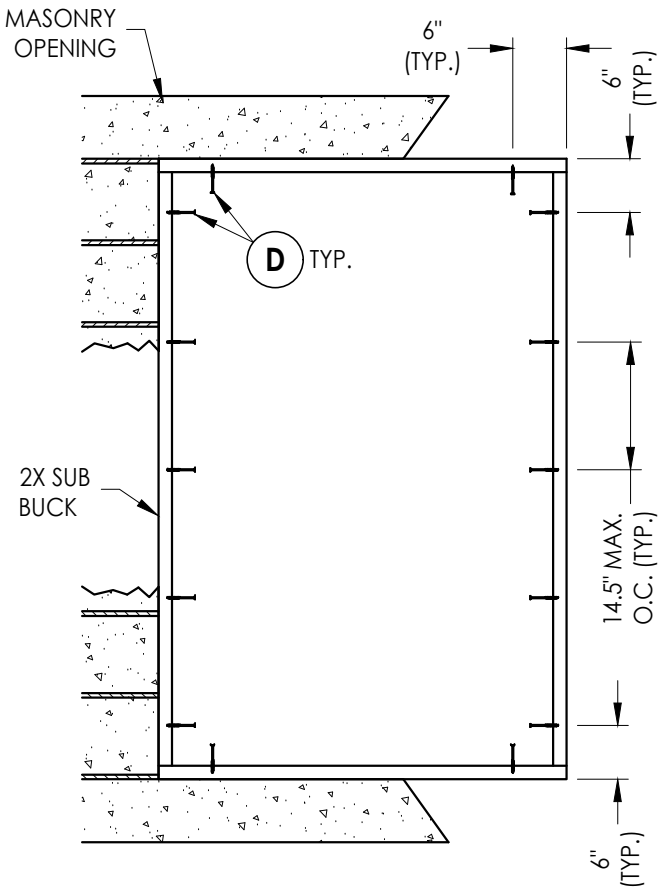
5 VERTICAL CROSS SECTION
4 Shown w/ 2X Buck Construction

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

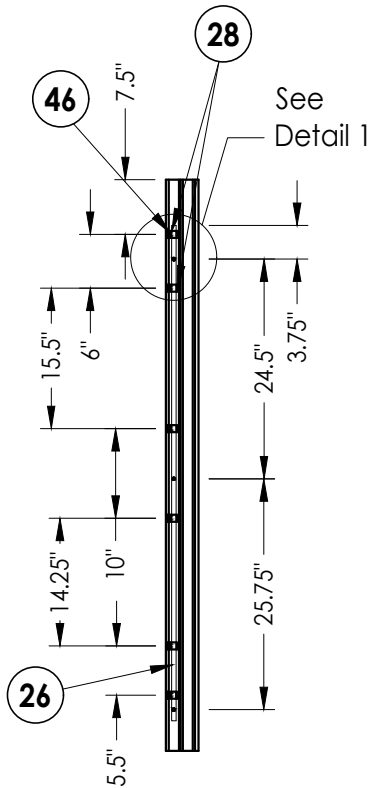
2 **HORIZONTAL CROSS SECTION**
4 Shown w/ 1X Sub buck option

NOTE:

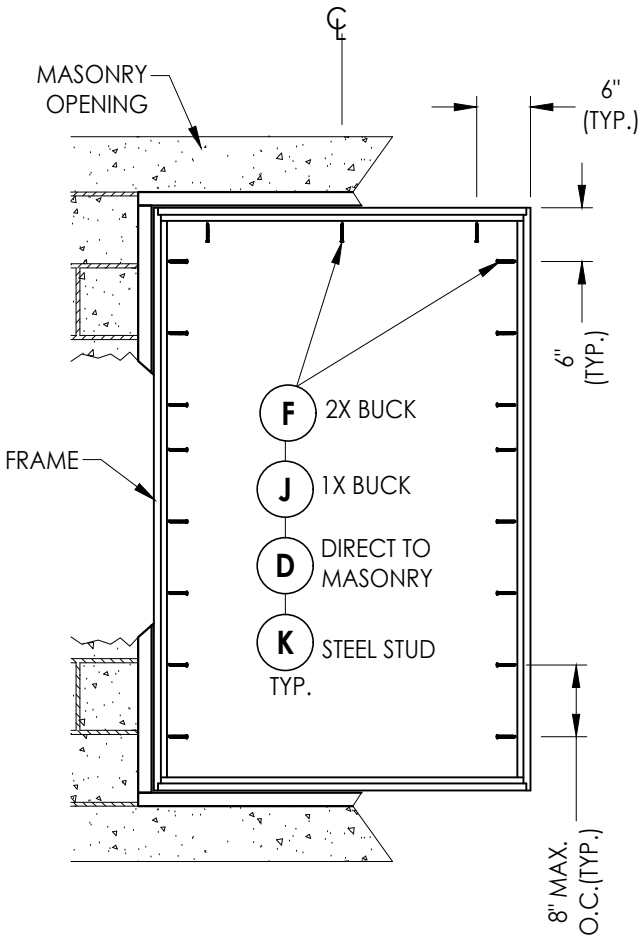
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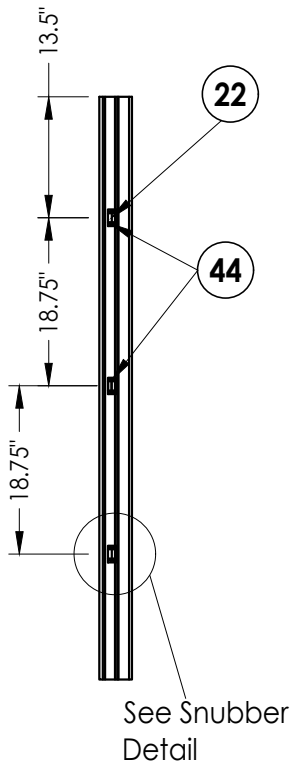
2X BUCK ANCHORING
40.25" X 63.25" Max Size



LOCK JAMB
Locking Points (3)



FRAME MOUNT ANCHORING
40.25" X 63.25" Max Size



SNUBBERS JAMB

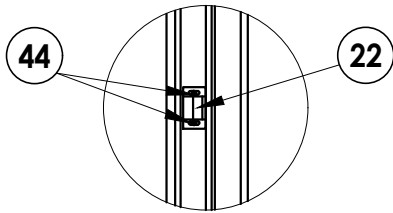
CONCRETE ANCHOR NOTES:

- 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:

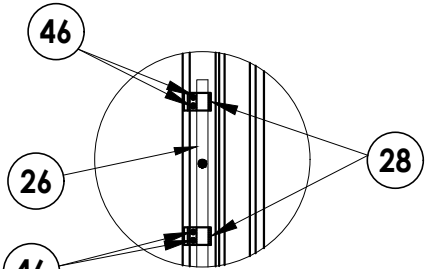
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	1"	4"

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

PRODUCT:

FLEETWOOD WINDOWS AND DOORS

LFS

LFS

DAG

LFS

LFS

LFS

BY

DATE

REVISIONS

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

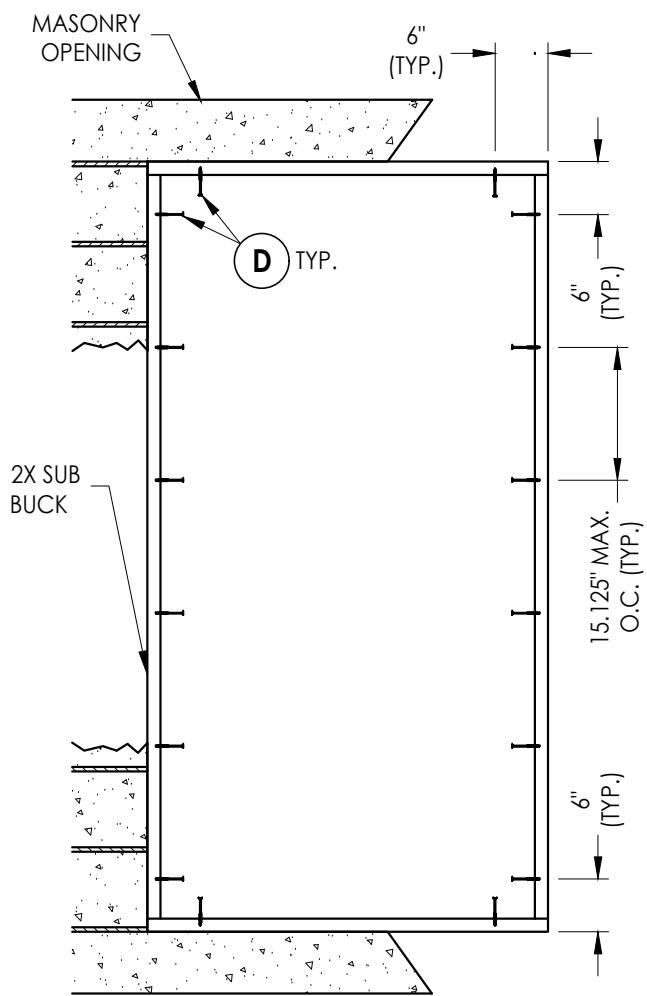
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FL-14904.10

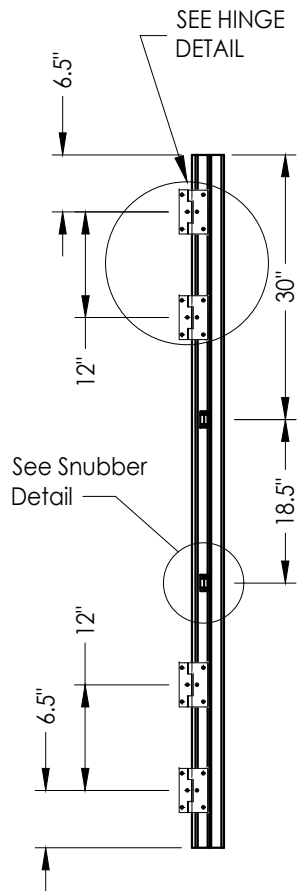
SHEET 5 OF 8

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

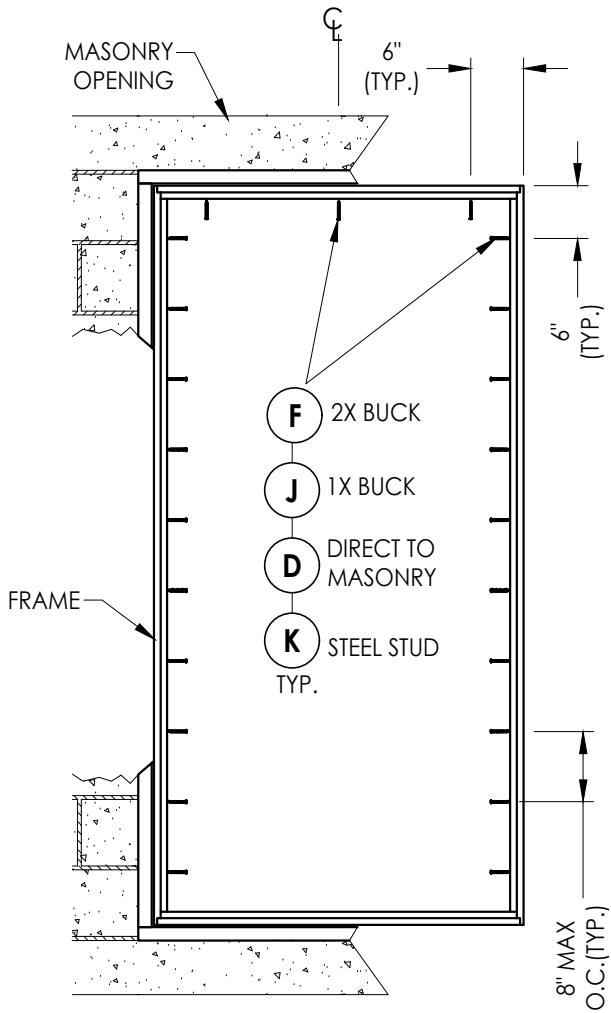
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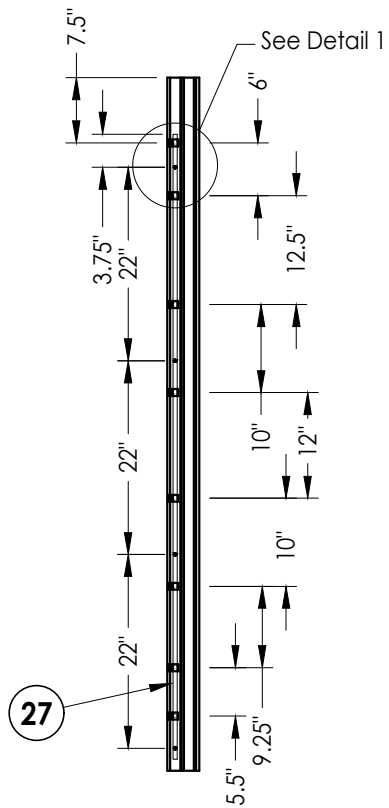
2X BUCK ANCHORING
39.75" X 81.75" Max Size



HINGE JAMB



FRAME MOUNT ANCHORING
39.75" X 81.75" Max Size



LOCK JAMB
Locking Points (4)

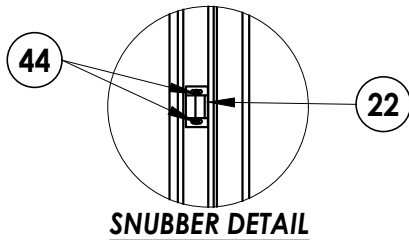
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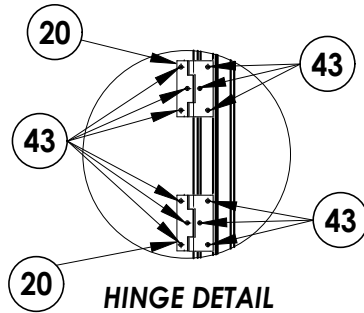
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ITW TAPCON®	1/4"	1-1/4"	2"	4"
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WOOD SCREW INSTALLATION NOTES:

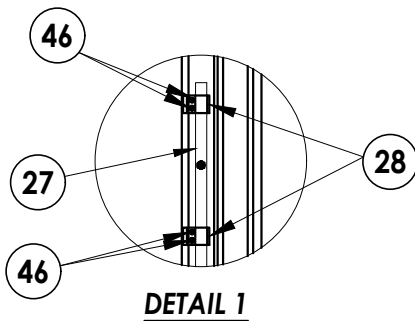
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



SNUBBER DETAIL



HINGE DETAIL



DETAIL 1

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

PRODUCT:
FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:
BUCK & 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

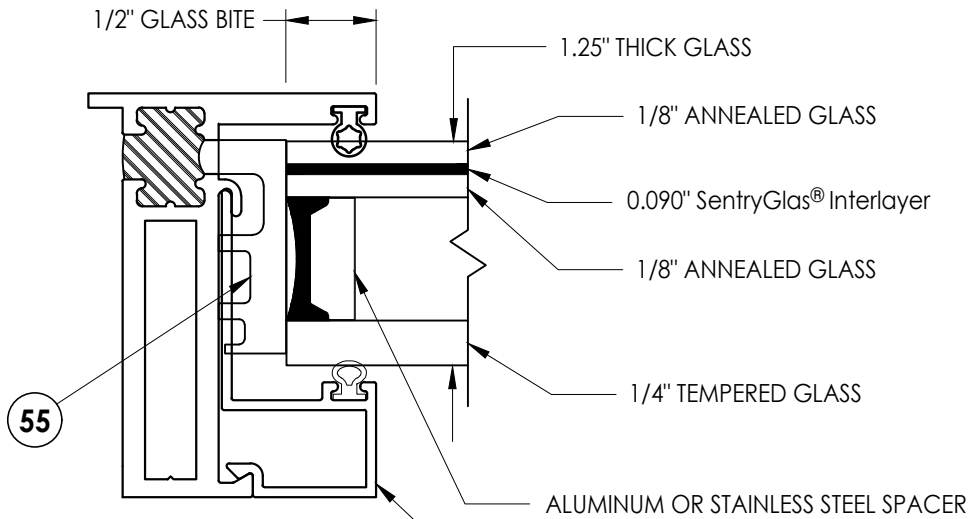
DRAWING NO.:

FL-14904.10

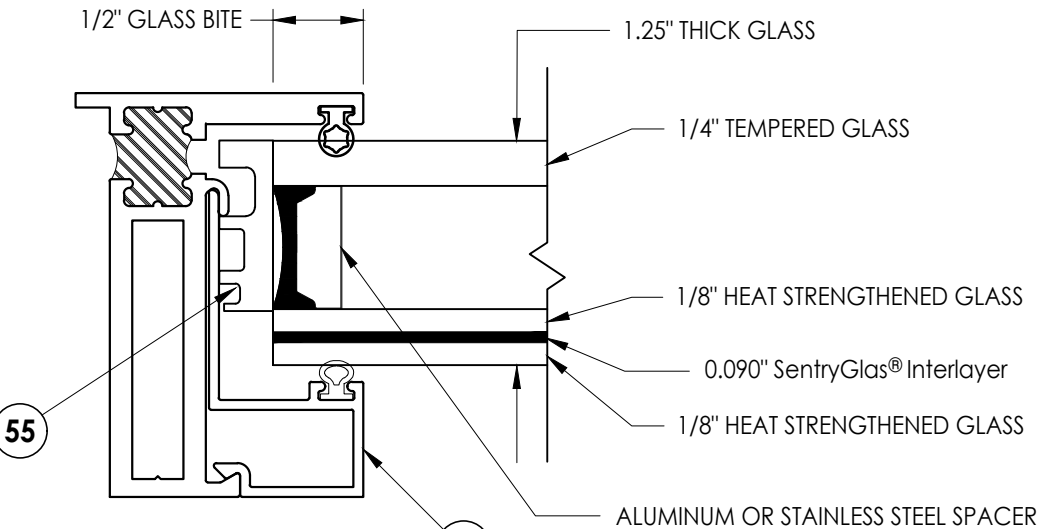
SHEET 6 OF 8

RW BUILDING CONSULTANTS, INC.
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FBPE Registry No. 9813

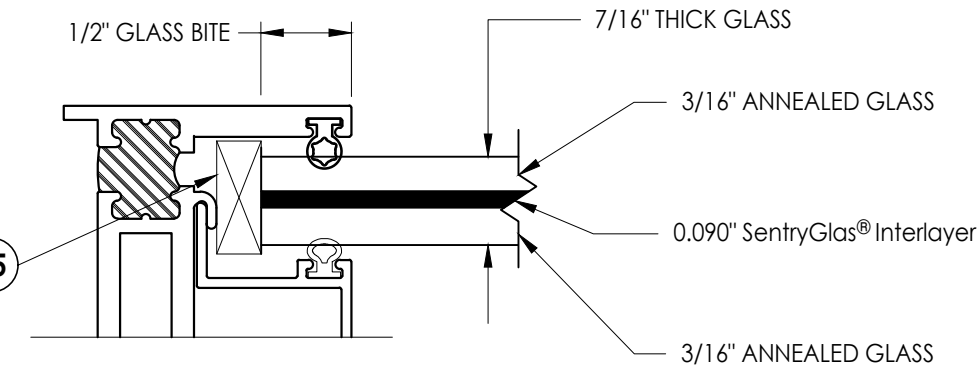
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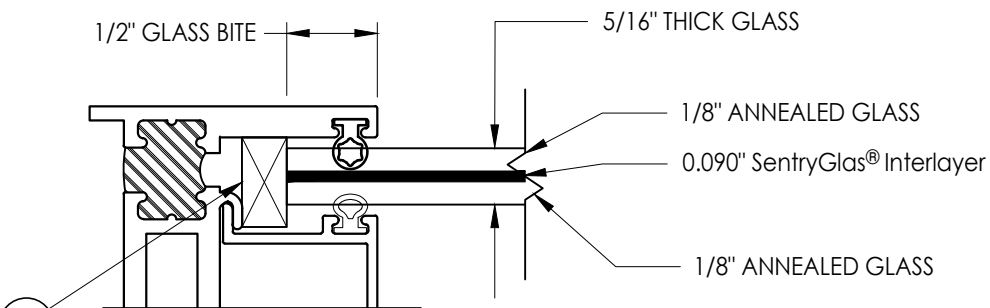
G1 GLAZING DETAIL



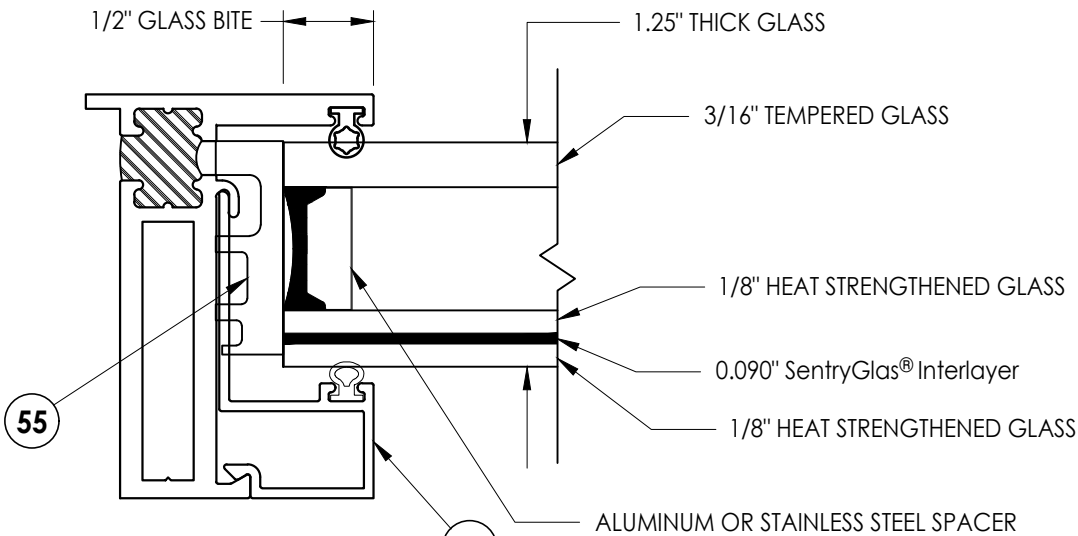
G2 GLAZING DETAIL



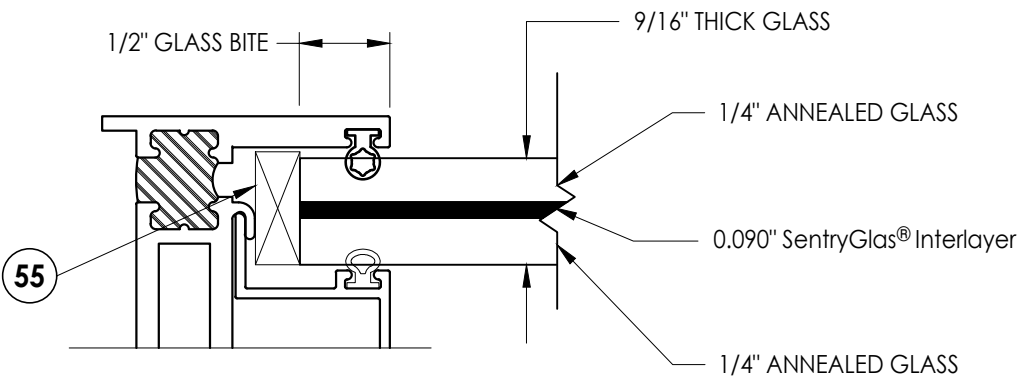
G3 GLAZING DETAIL



G4 GLAZING DETAIL



G5 GLAZING DETAIL



G6 GLAZING DETAIL

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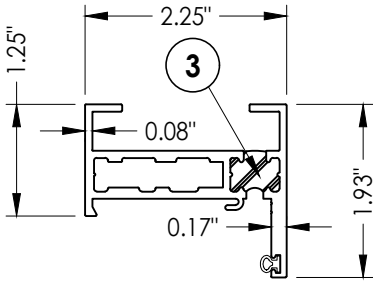
PRODUCT:
FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:
GLAZING DETAILS

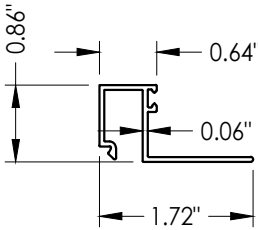
NO.	DATE	REVISIONS
6	7/12/23	UPDATE TO 8TH ED. (2023) FBC
5	12/7/21	SERIES NAME CHANGE
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2	8/22/16	RENUMBER DRAWINGS
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DATE: 10/23/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14904.10
SHEET 7 OF 8

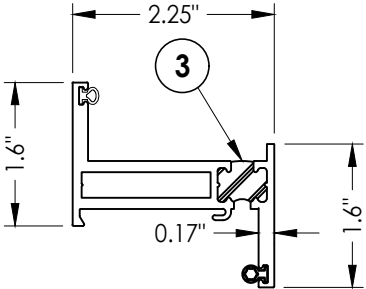
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2" 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 (SANTOPRENE - 86 DUROMETER) - TREMCO	-
57	PIVOT SHIM	-



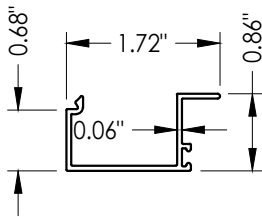
5 BLOCK FRAME



8 GLASS STOP 1-1/4"



7 ZEE BAR (PANEL)



10 GLASS STOP 5/16", 7/16", 9/16'

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 AND COMPONENTS				
6	7/12/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	REVISIONS				
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	8/06/17	UPDATE TO 5TH ED. (2014)	FBC	LFS					
NO.	DATE								
DATE: 10/23/13									
SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-14904.10									
SHEET 8 OF 8									