



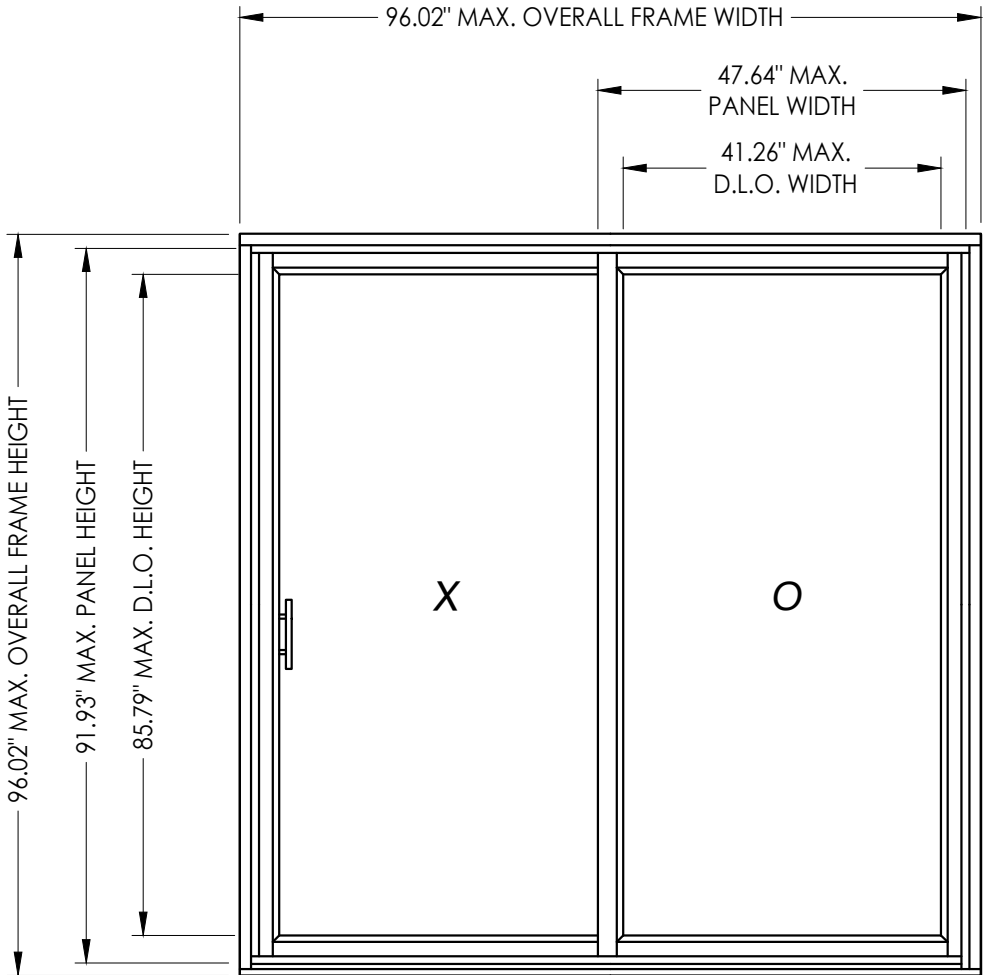
250 Staunton Turnpike, Parkersburg, WV 26104

400/500 Series
Vinyl Sliding Patio Door
"NON-IMPACT"

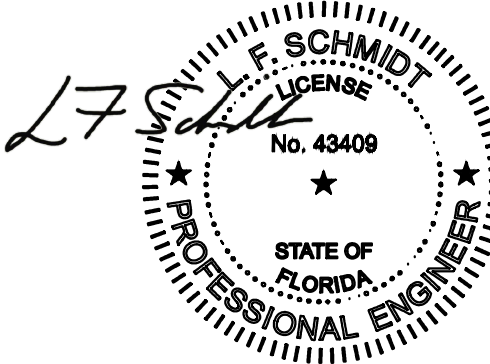
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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.

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1	Typical elevation, design pressures & general notes
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5	Glazing details
6	Bill of materials & components



OVERALL FRAME DIMENSION	MAX. PANEL DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
71.85" x 81.69"	35.39" X 77.56"	29.06" X 71.18"	G1, G2, G3	+55.0	-55.0
96.02" x 96.02"	47.64" X 91.93"	41.26" X 85.79"	G1, G2, G3	+35.0	-35.0



Digitally signed by
Lyndon F Schmidt
Date: 2026.07.27
14:16:04 -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

400/500 SERIES
SLIDING PATIO DOORS

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS

DATE: 8/18/14

SCALE: N.T.S.

DWG. BY: JK

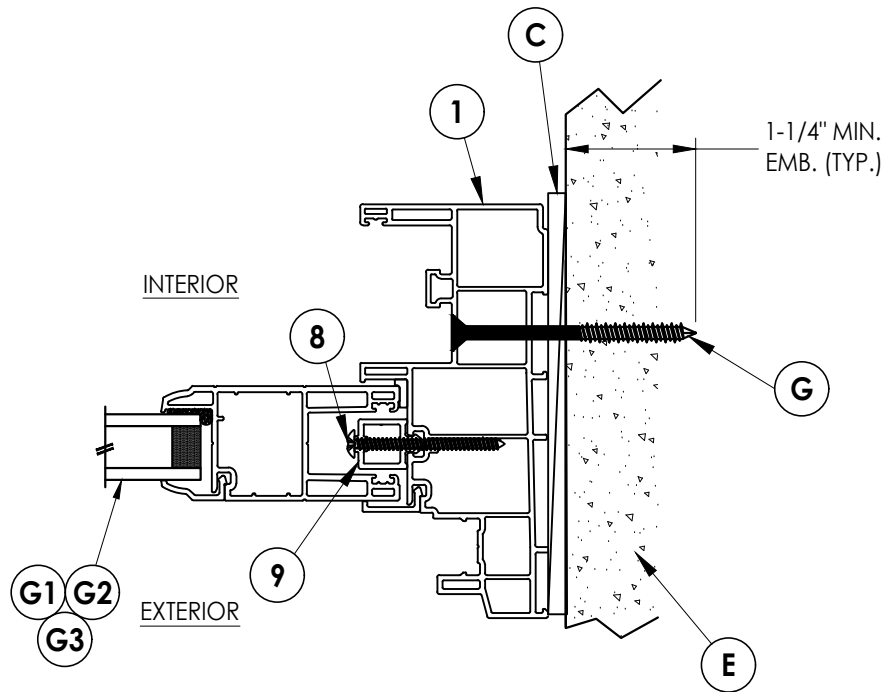
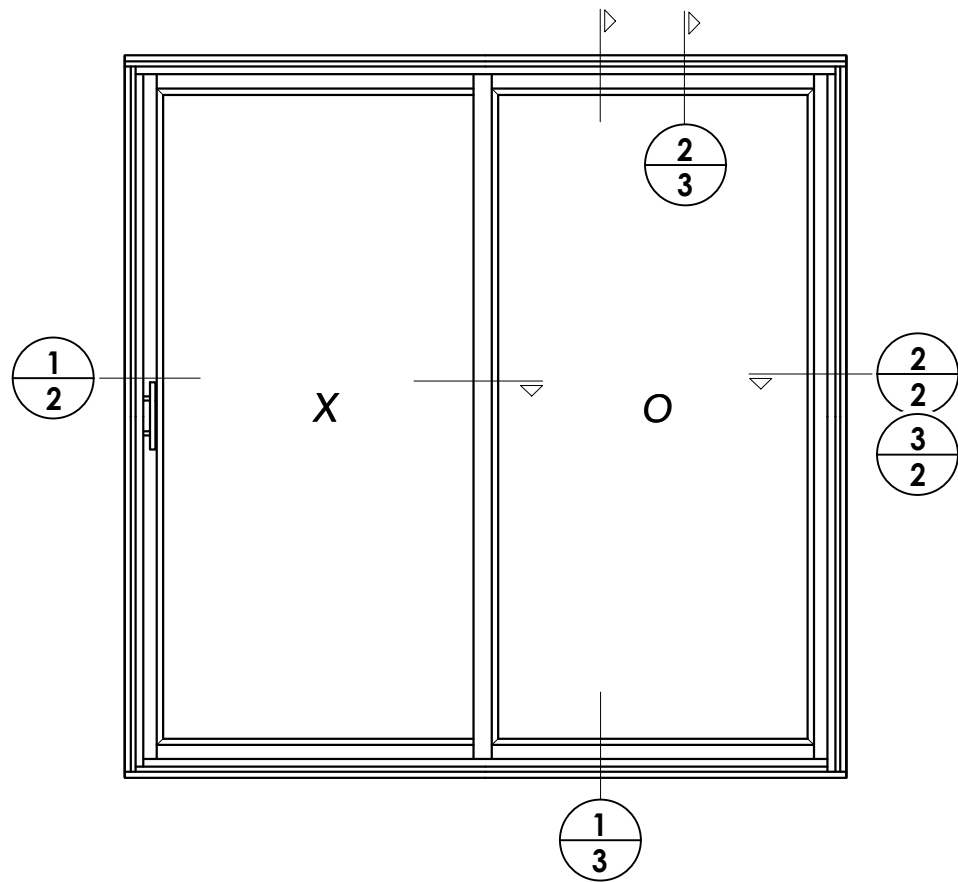
CHK. BY: LFS

DRAWING NO.: FL-16216.8

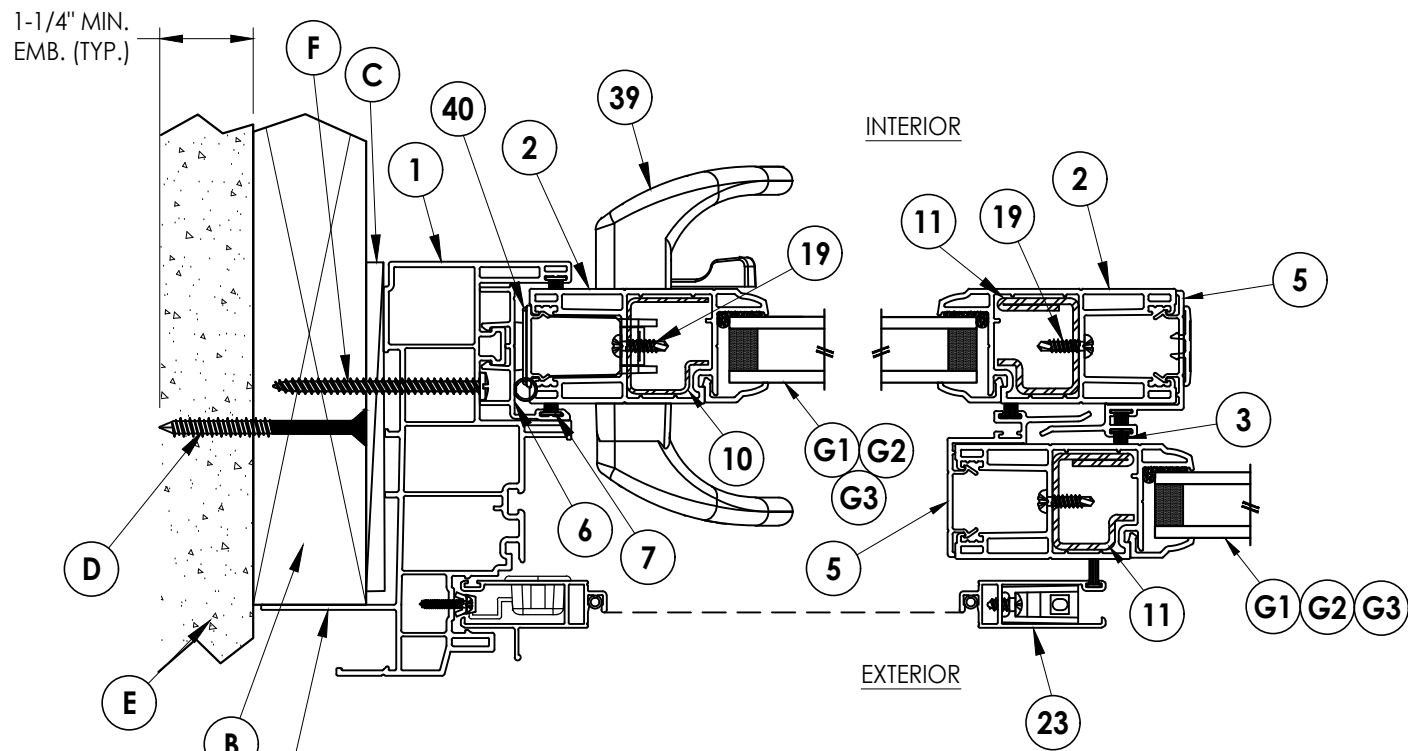
SHEET 1 OF 6

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

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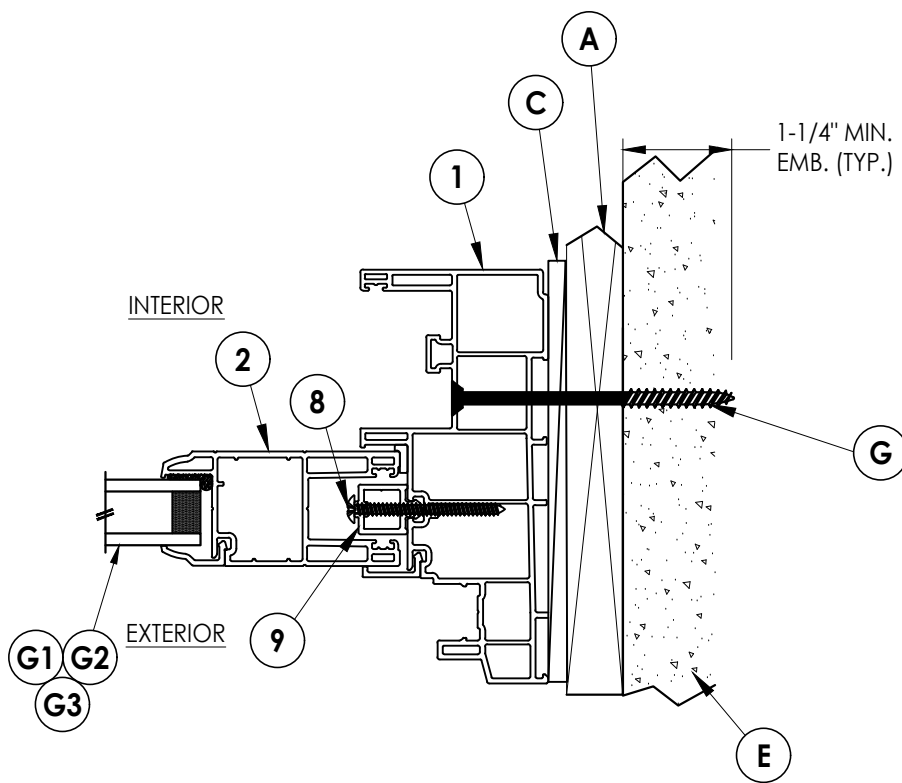


3
2 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry



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

NOTE: Install sealant under fin when optional fin installation is used. Anchor through frame as shown - anchors not required through fin.



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

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PRODUCT:
400/500 SERIES
SLIDING PATIO DOORS

RW 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

REVISONS		NO.	DATE	BY
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	7/06/20	UPDATE TO 7TH ED. (2020)	FBC	LFS

DATE: 8/18/14

SCALE: N.T.S.

DWG. BY: JK

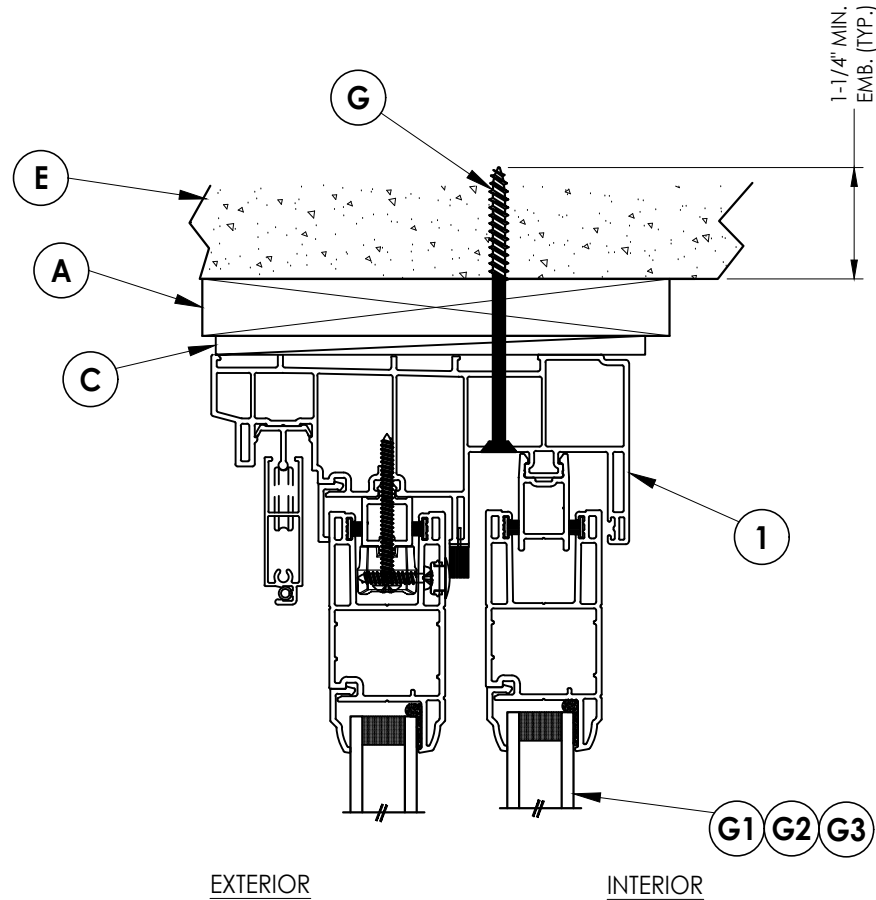
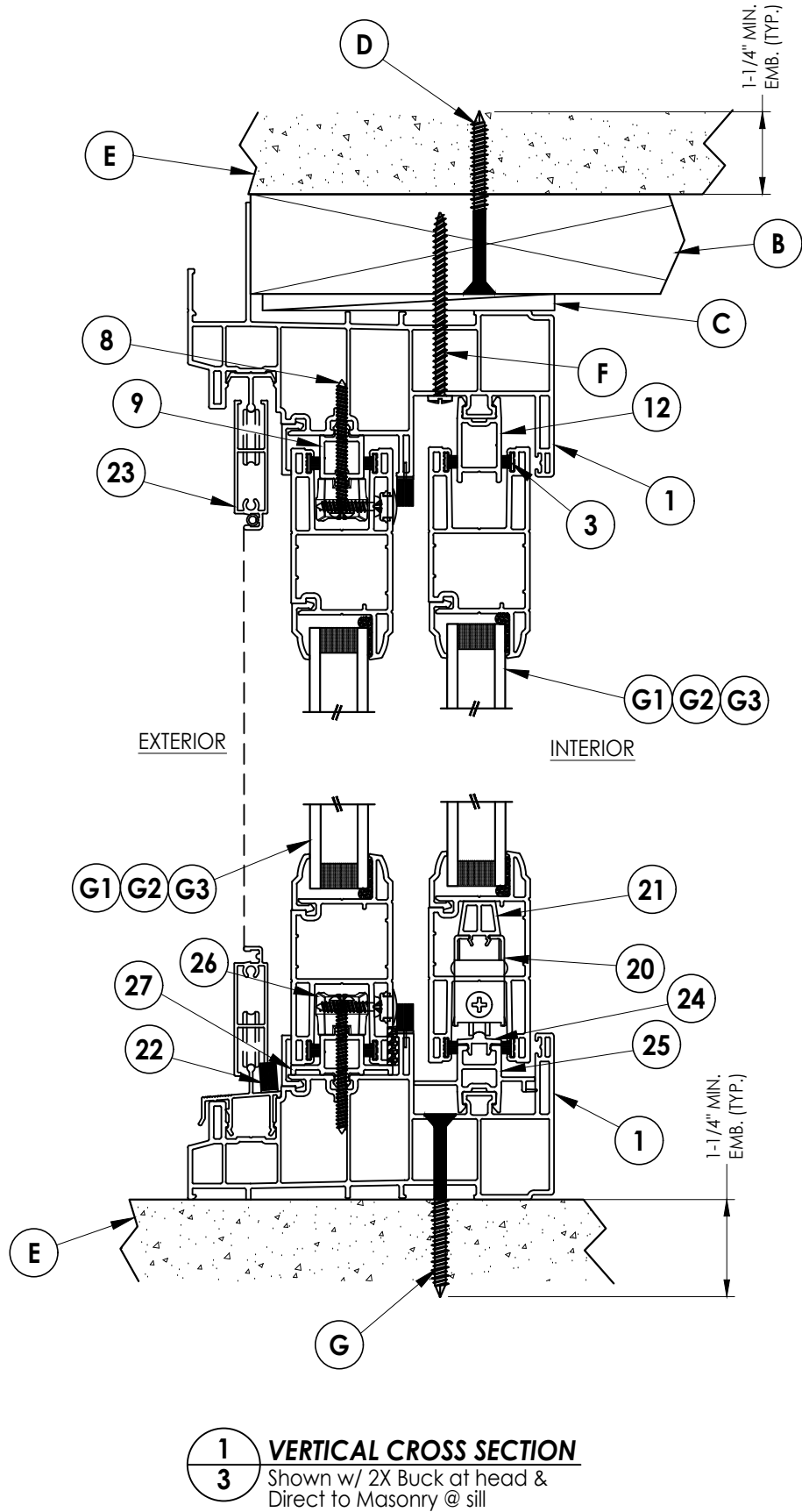
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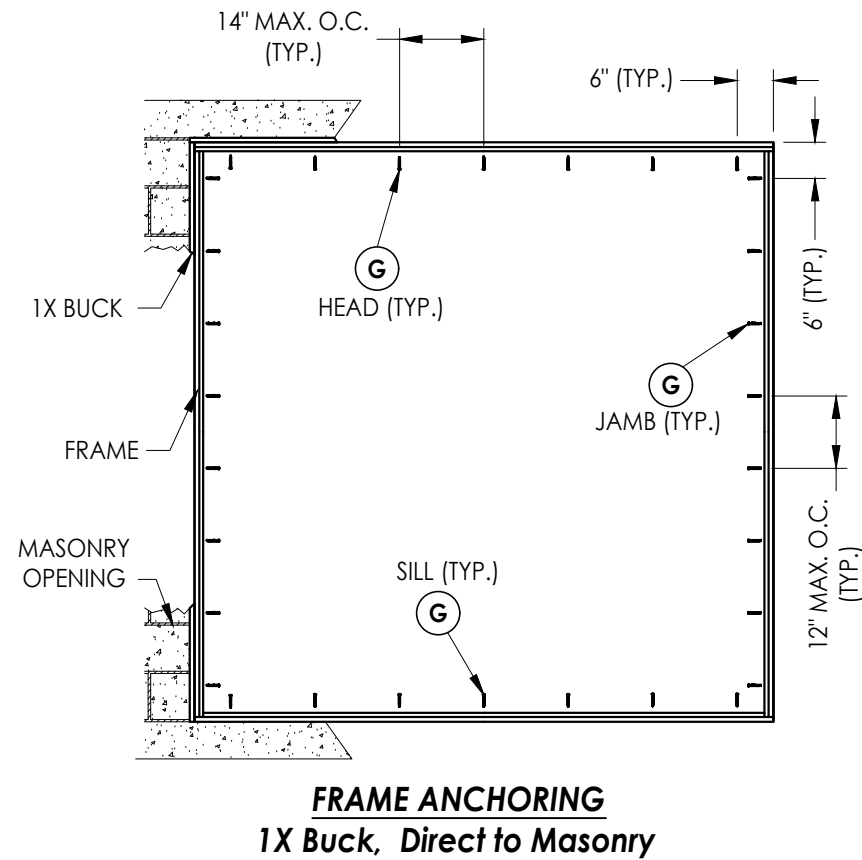
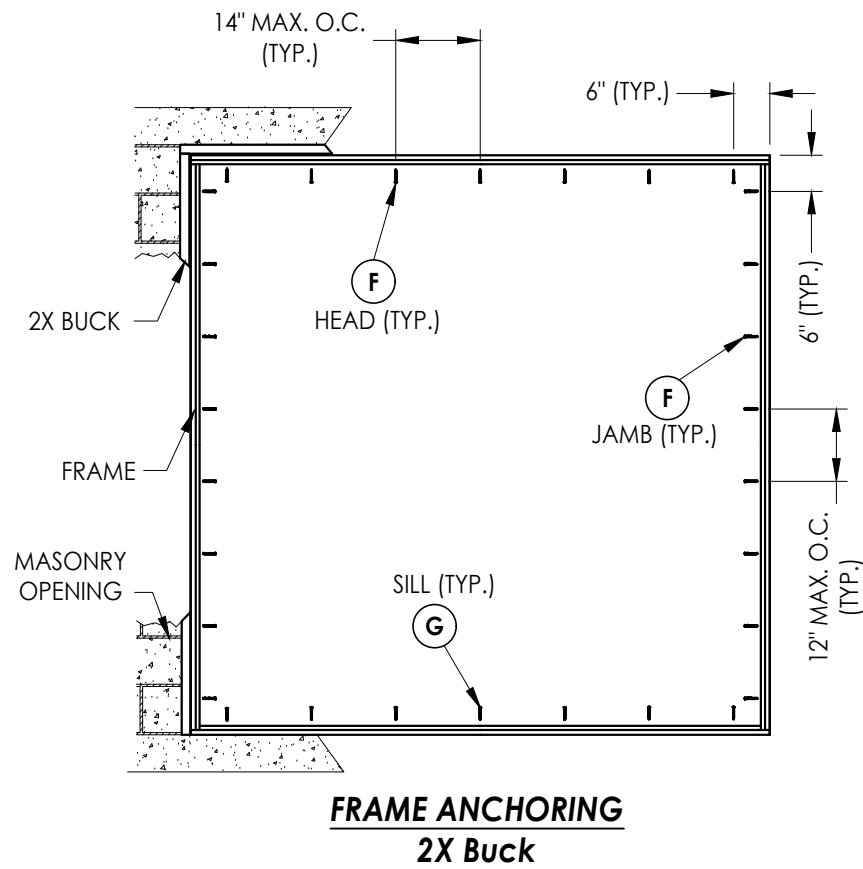
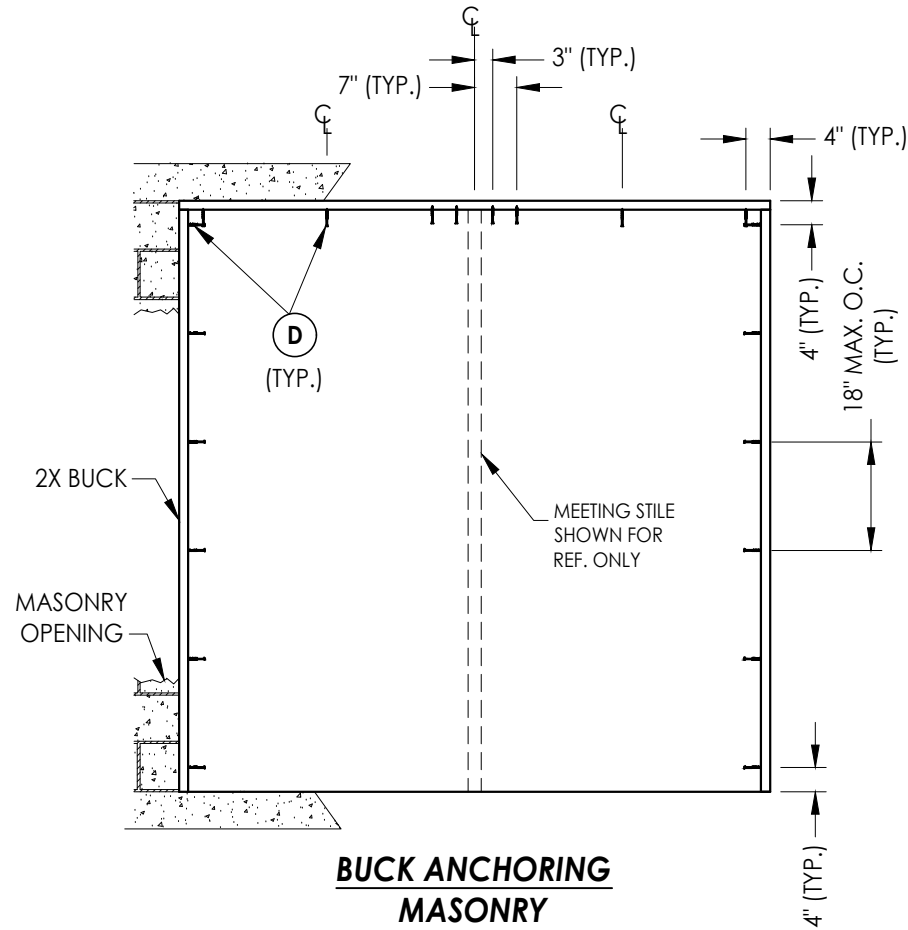
SHEET 2 OF 6

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2 VERTICAL CROSS SECTION
3 Shown w/ 1X Buck

PRODUCT:		400/500 SERIES SLIDING PATIO DOORS		PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
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:		8/18/14		SCALE:		N.T.S.	
DWG. BY:		JK		CHK. BY:		LFS	
DRAWING NO.:		FL-16216.8		SHEET		3 OF 6	
NO.		DATE		REVISIONS			
5		7/01/26		UPDATE TO 9TH ED. (2026)		FBC	
4		7/06/23		UPDATE TO 8TH ED. (2023)		FBC	
3		7/06/20		UPDATE TO 7TH ED. (2020)		FBC	



CORROSION RESISTANCE - SALTWATER ENVIRONMENT

Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

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"
ELCO 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.

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PRODUCT: 400/500 SERIES
SLIDING PATIO 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:

BUCK & FRAME
ANCHORING

NO.	DATE	REVISIONS
5	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/06/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 8/18/14

SCALE: N.T.S.

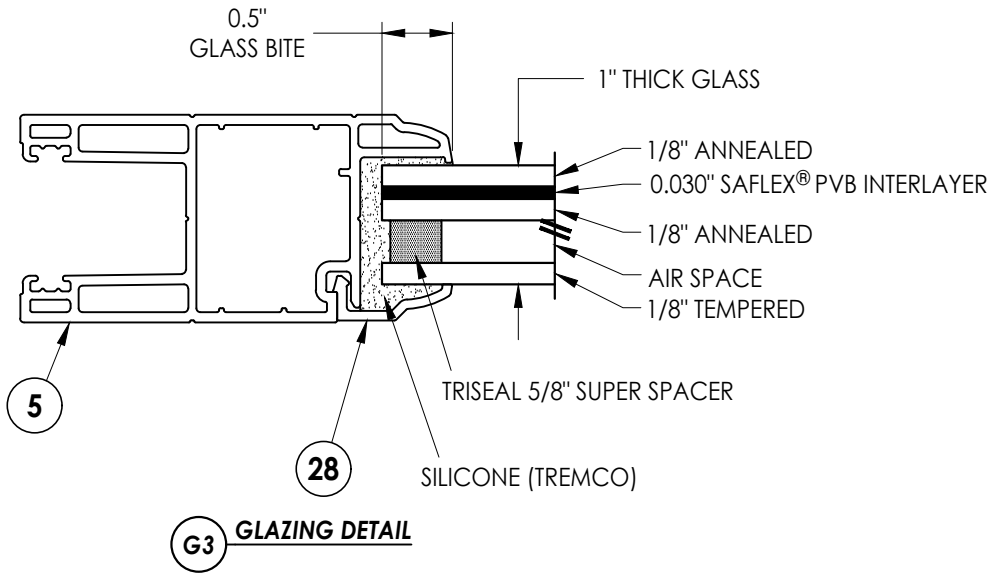
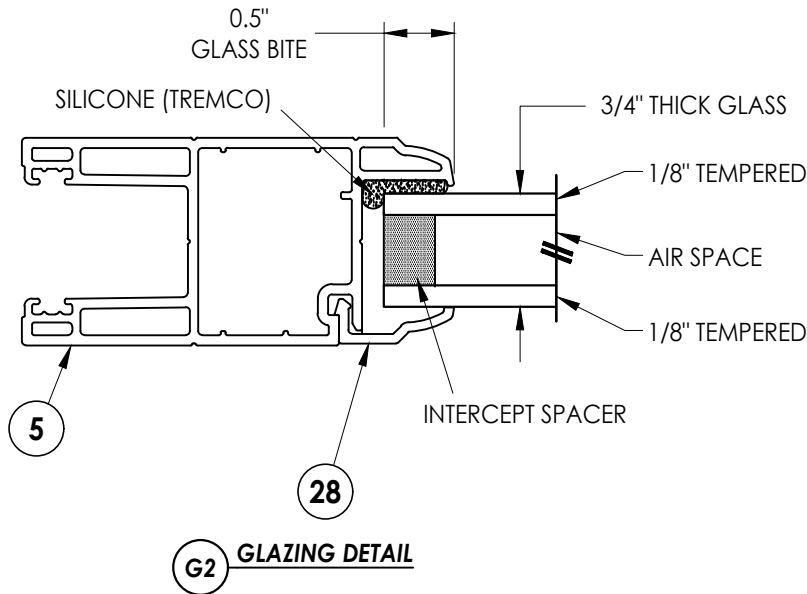
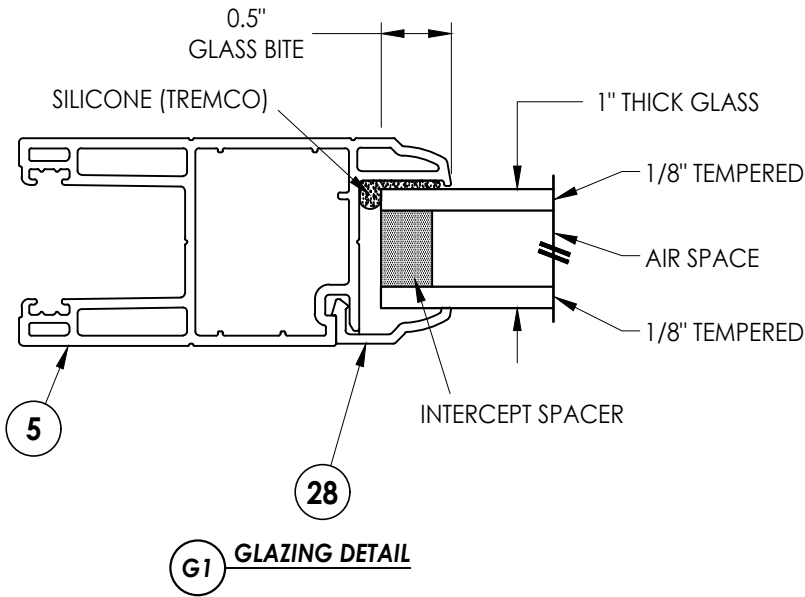
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DRAWING NO.:

FL-16216.8

SHEET 4 OF 6

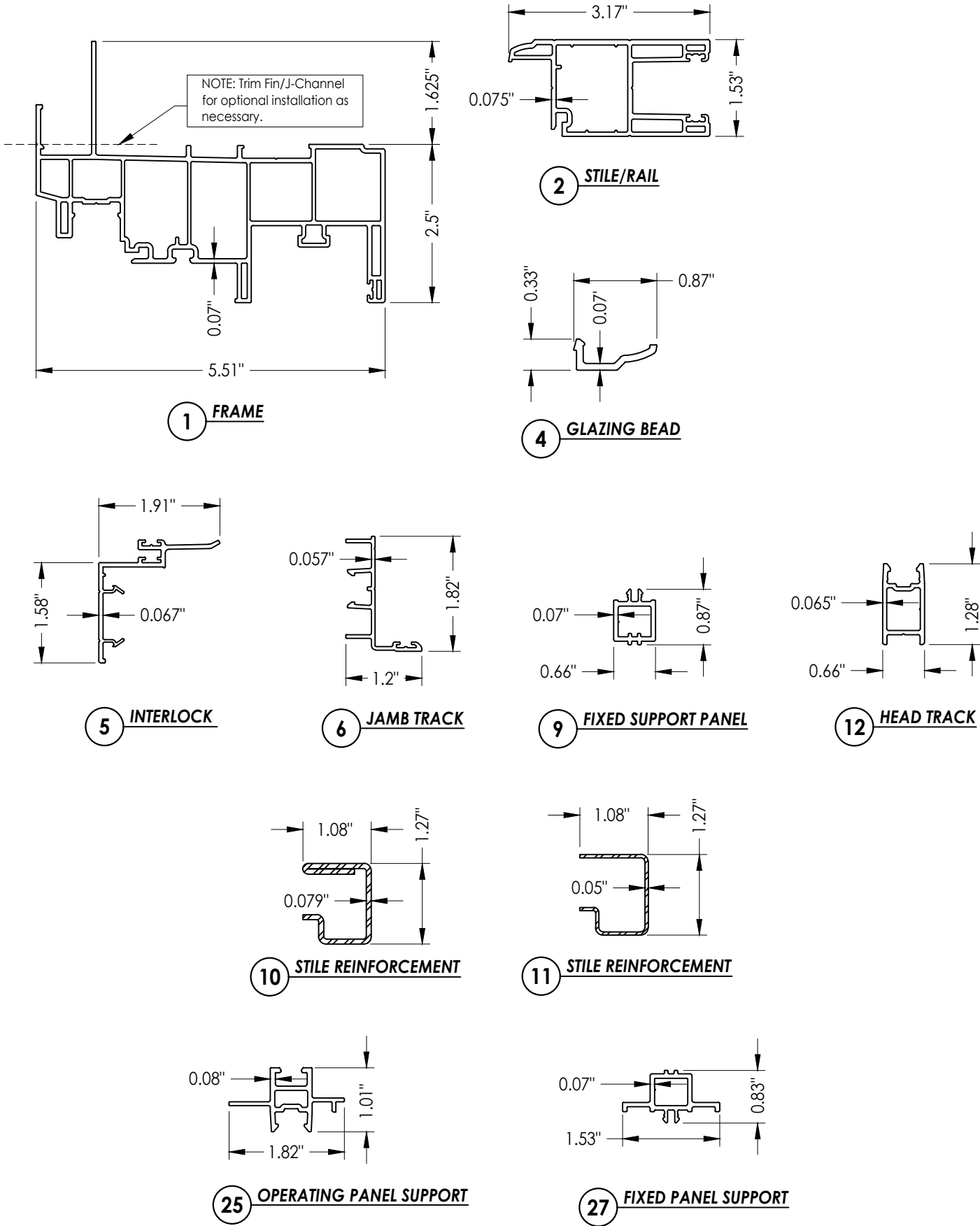


PRODUCT:		400/500 SERIES SLIDING PATIO DOORS		PART OR ASSEMBLY:		GLAZING DETAILS	
DOCUMENTS PREPARED BY:		Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
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BILL 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" ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 PPH WOOD SCREW (1-3/8" MIN. EMBEDMENT REQ'D INTO WOOD)	STEEL
G	1/4" ELCO OR ITW CONCRETE SCREW (1-1/4" MIN. EMBEDMENT REQ'D. INTO CONCRETE)	STEEL
1	FRAME*	PVC
2	STILE/RAIL*	PVC
3	WEATHERSTRIP (SCHLEGEL #HF-7522-270)	-
4	GLAZING BEAD*	PVC
5	INTERLOCK*	PVC
6	JAMB TRACK*	PVC
7	WEATHERSTRIP (SCHLEGEL #PB-8420-187)	-
8	#8 X 2" PAN HEAD QUADREX SCREW	STEEL
9	FIXED SUPPORT PANEL*	PVC
10	STILE REINFORCEMENT (CS TYPE B HOT DIPPED GALV.)	STEEL
11	STILE REINFORCEMENT (CS TYPE B HOT DIPPED GALV.)	STEEL
12	HEAD TRACK*	PVC
19	#8 X 5/8" PAN HEAD, SQUARE, SELF-DRILLING SCREW	STEEL
20	TANDEM WHEEL (TRUTH)	-
21	TANDEM WHEEL SHIM*	PVC
22	INSECT STOP	-
23	SCREEN	-
24	SLIDING PANEL RAIL	ALUM
25	OPERATING PANEL SUPPORT*	PVC
26	FIXED SASH ANCHOR BLOCK	-
27	FIXED PANEL SUPPORT*	PVC
39	HANDLE KIT	STEEL
40	MORTISE LOCK KIT/KEEPER	S.S.

* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



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PRODUCT: 400/500 SERIES
SLIDING PATIO DOORS

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS			
		BY	DATE	DESCRIPTION	DATE
5	7/01/26	LFS	(2026)	UPDATE TO 9TH ED.	FBC
4	7/06/23	LFS	(2023)	UPDATE TO 8TH ED.	FBC
3	7/06/20	LFS	(2020)	UPDATE TO 7TH ED.	FBC

DATE: 8/18/14

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16216.8

SHEET 6 OF 6