

Z:\2023 FBC Drawings\Novatech Patio Doors\FL-27628 R3\FL-27628.7.dwg

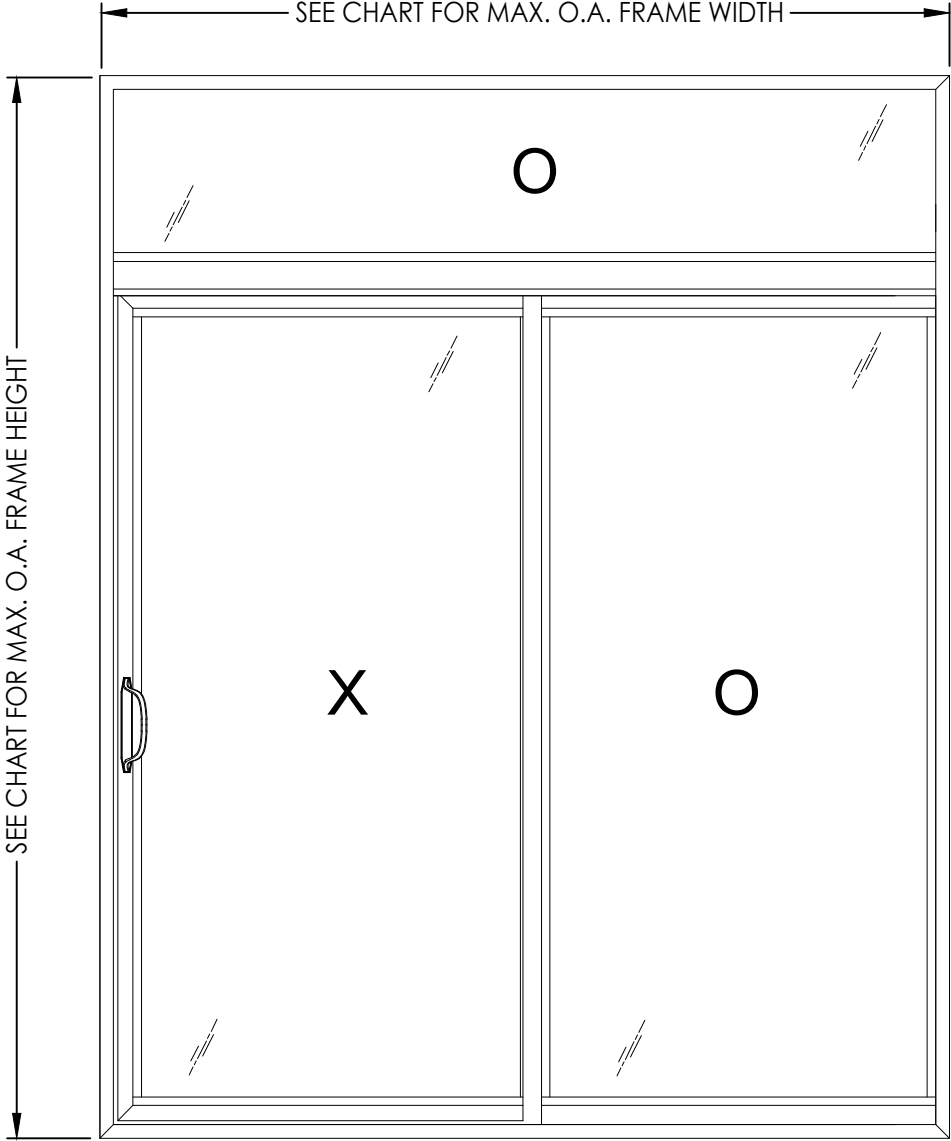
Novatech®

R-301/401
SLIDING PATIO DOOR
w/ TRANSOM
"NON-IMPACT"

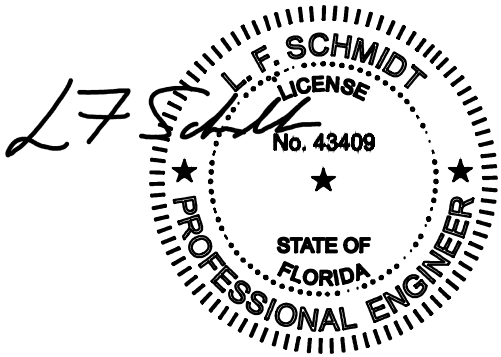
GENERAL NOTES

1. This product anchoring drawing is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ). See the Certification Agency Certificate for sizes, specifcations and ratings.
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.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Buck and frame anchoring
5	Bill of materials, glazing details & components



MAX. FRAME DIMENSION	DOOR PANEL MAX. D.L.O. DIMENSION	GLASS TYPE	TRANSOM MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
72.0" X 96.0"	32.0" x 74.7"	G2	68.2" x 10.2"	G2	+35.0	-35.0
95.5" X 119.5"	43.7" x 88.2"	G1	91.7" x 20.2"	G2	+20.0	-20.0



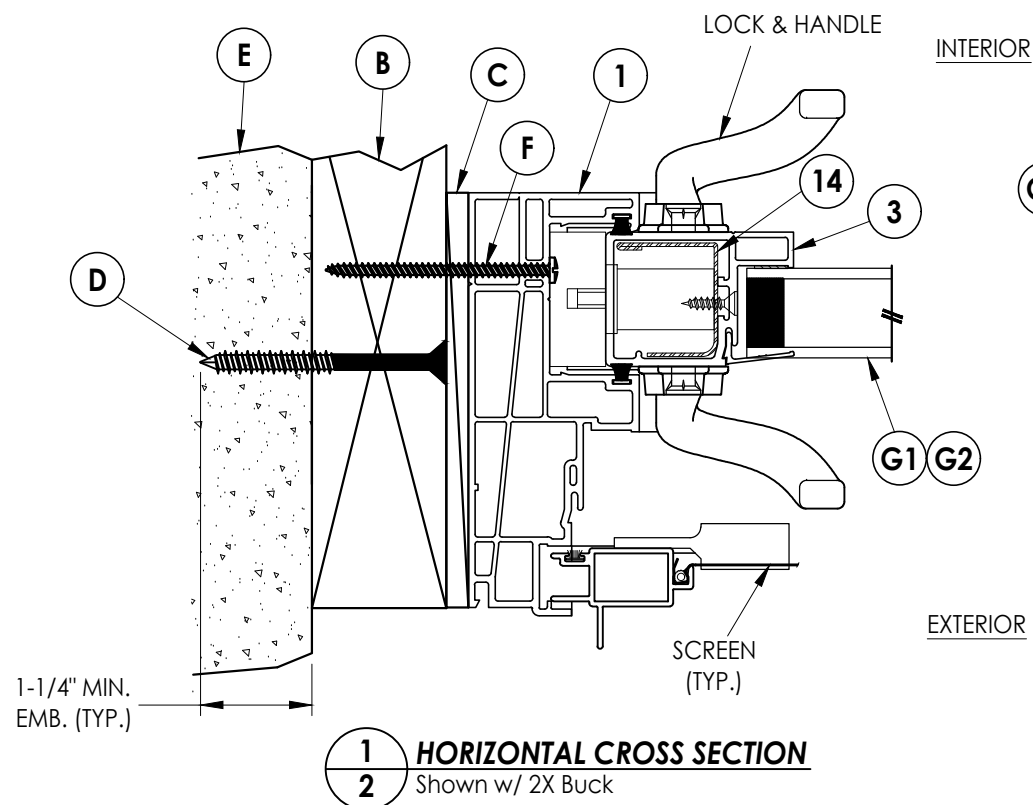
Digitally signed by Lyndon F Schmidt
Date: 2023.09.14 09:37:13 -04'00'

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.

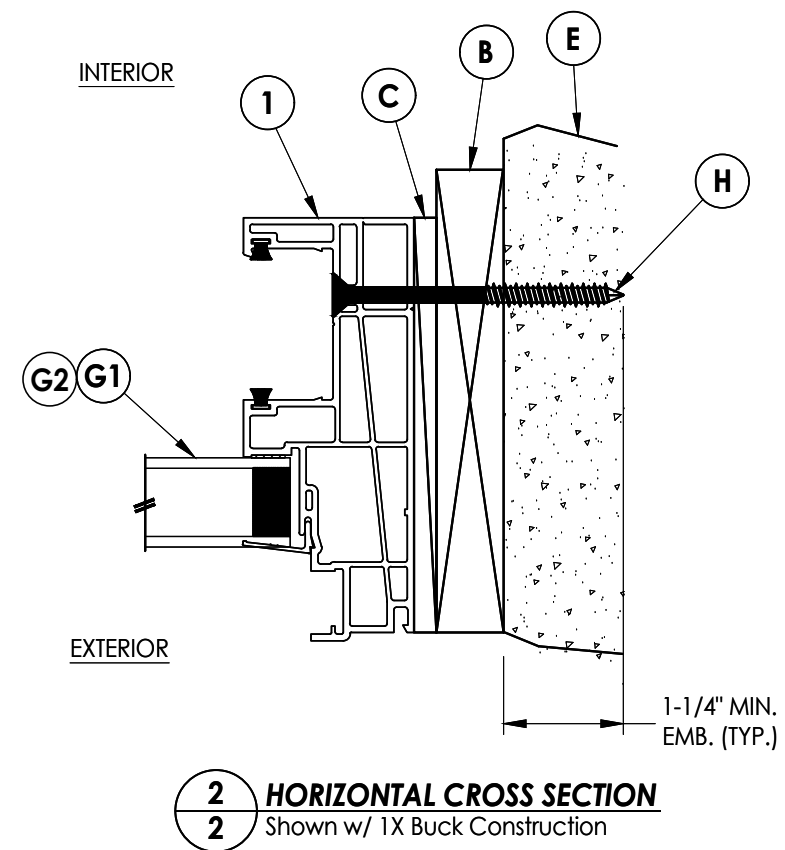
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: NOVATECH PATIO DOOR		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
		LFS	BY
		FBC	
		UPDATE TO 8TH ED. (2023)	UPDATE TO 7TH ED. (2020)
		9/14/23	10/01/20
		DATE	NO.
REVISIONS			
DATE: 7/12/18			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-27628.7			
SHEET 1 OF 5			

4 **HORIZONTAL CROSS SECTION**
2 Shown w/ Stud Construction



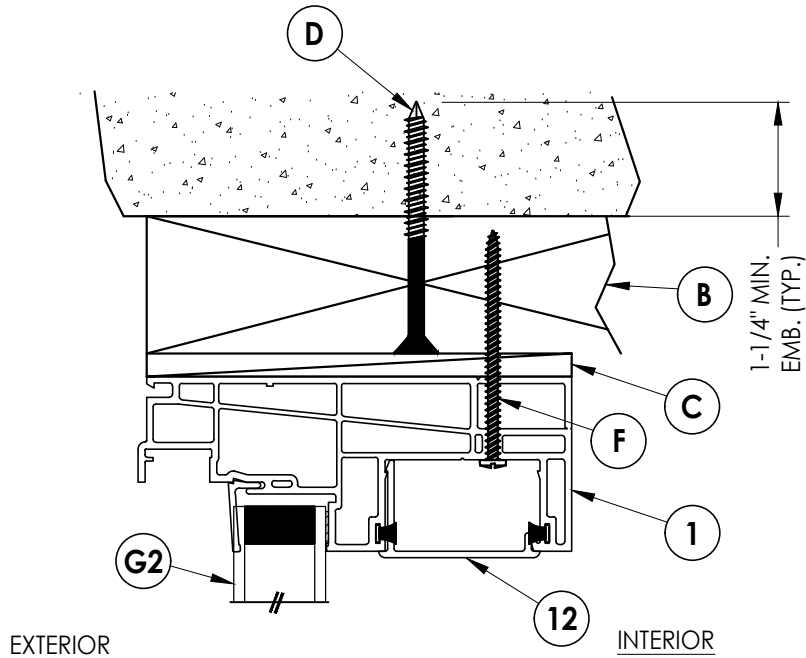
3 **HORIZONTAL CROSS SECTION**
2



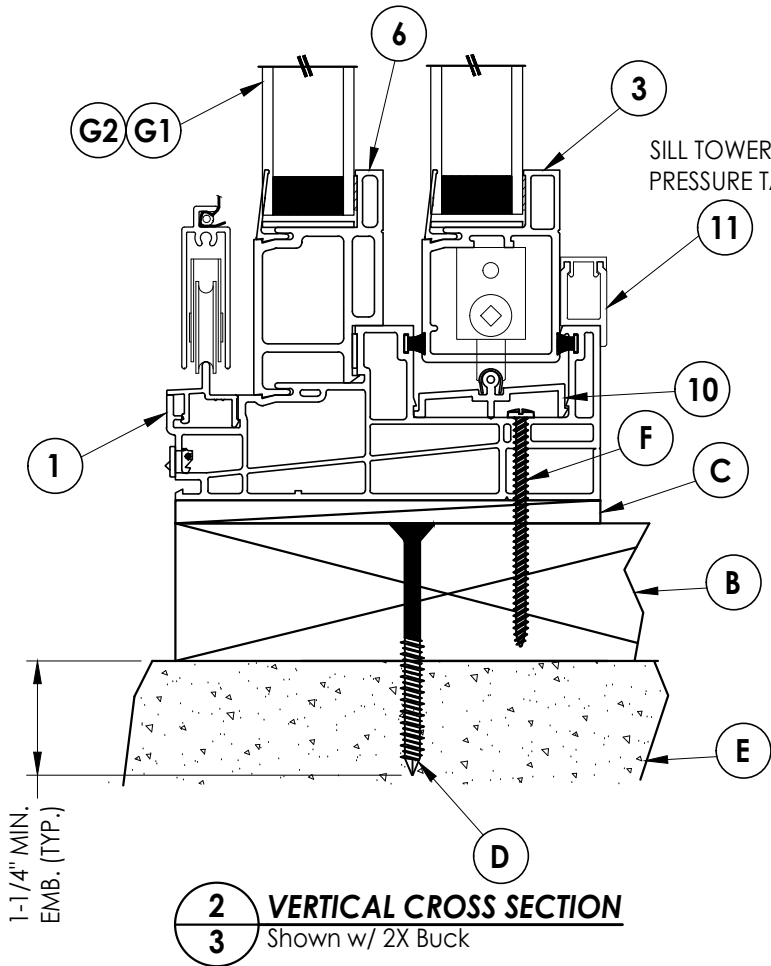
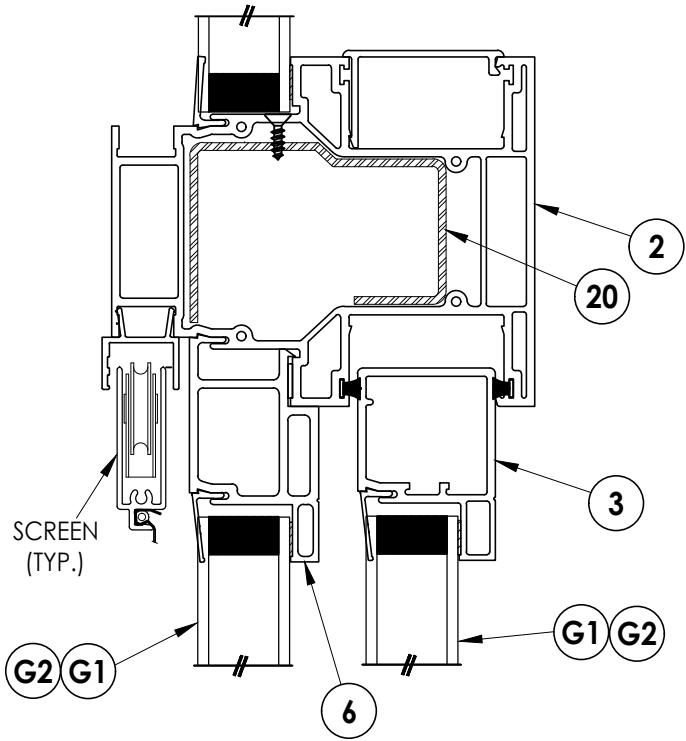
2 HORIZONTAL CROSS SECTION
 2 Shown w/ 1X Buck Construction

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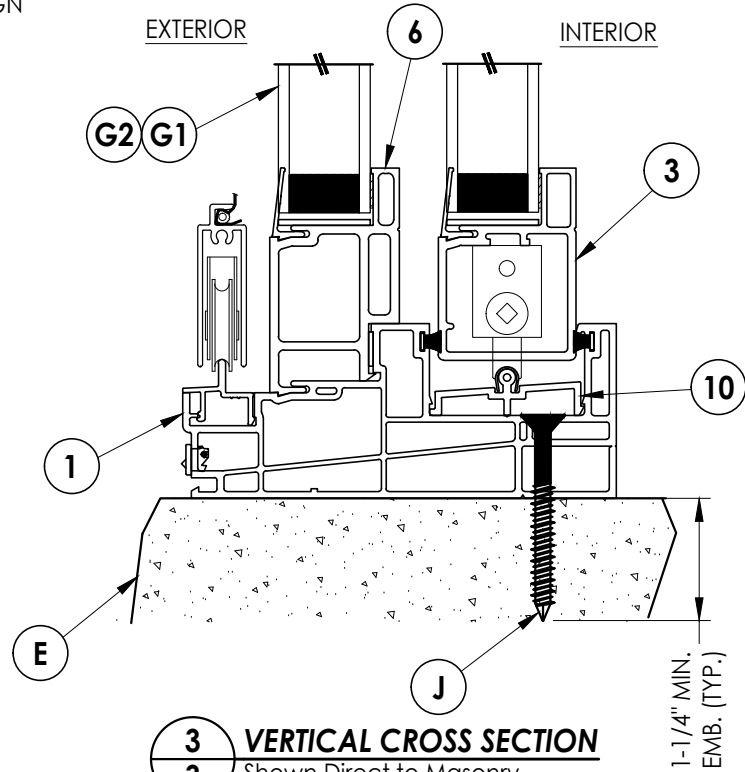
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1
3 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck



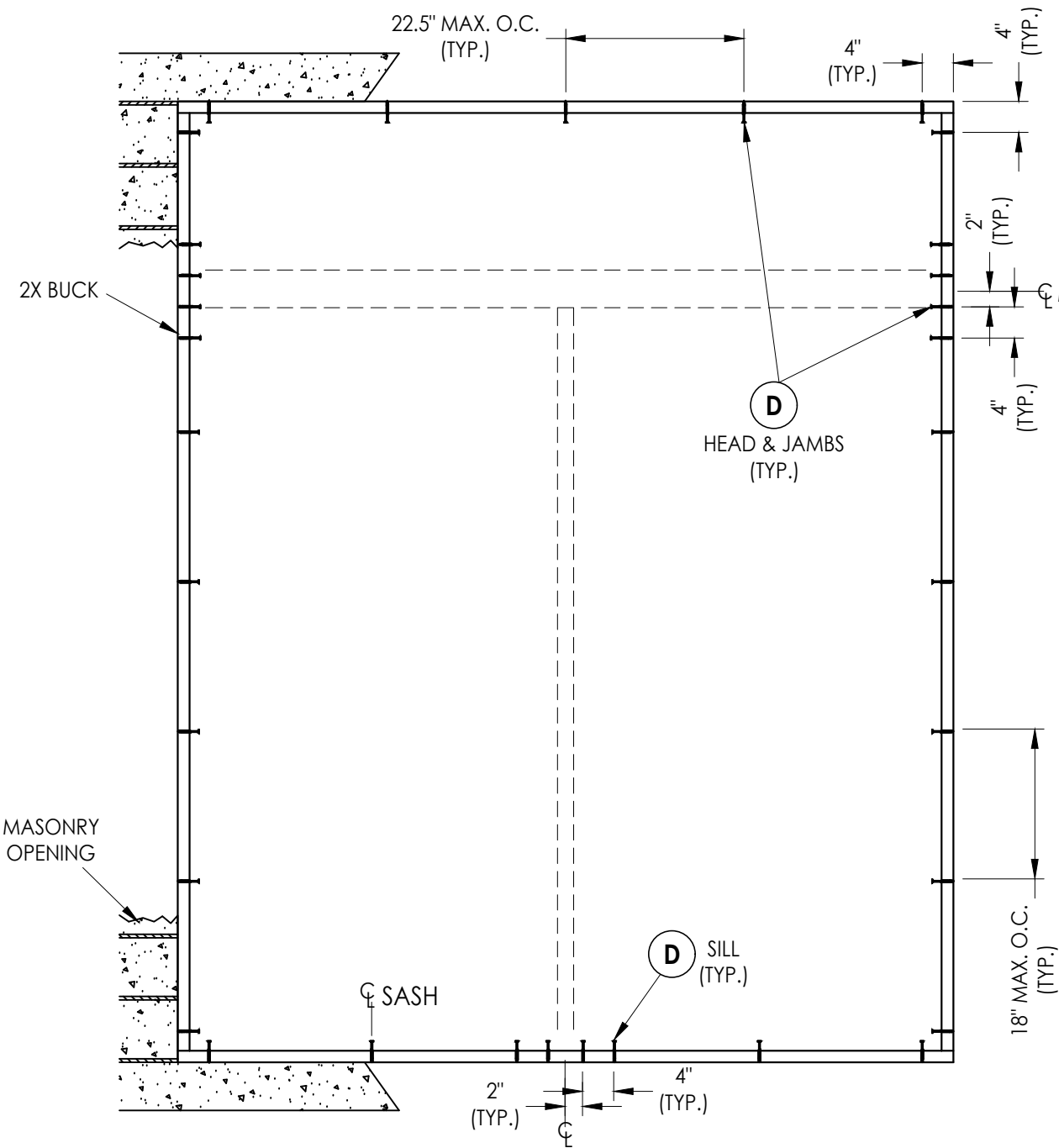
2
3 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck



3
3 **VERTICAL CROSS SECTION**
Shown Direct to Masonry

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DATE: 7/12/18		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-27628.7		SHEET 3 OF 5		NO. DATE		BY	
2 9/14/23 UPDATE TO 8TH ED. (2023) FBC		1 10/01/20 UPDATE TO 7TH ED. (2020) FBC		NO. DATE		BY	
2 9/14/23 UPDATE TO 8TH ED. (2023) FBC		1 10/01/20 UPDATE TO 7TH ED. (2020) FBC		NO. DATE		BY	
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2X BUCK ANCHORING

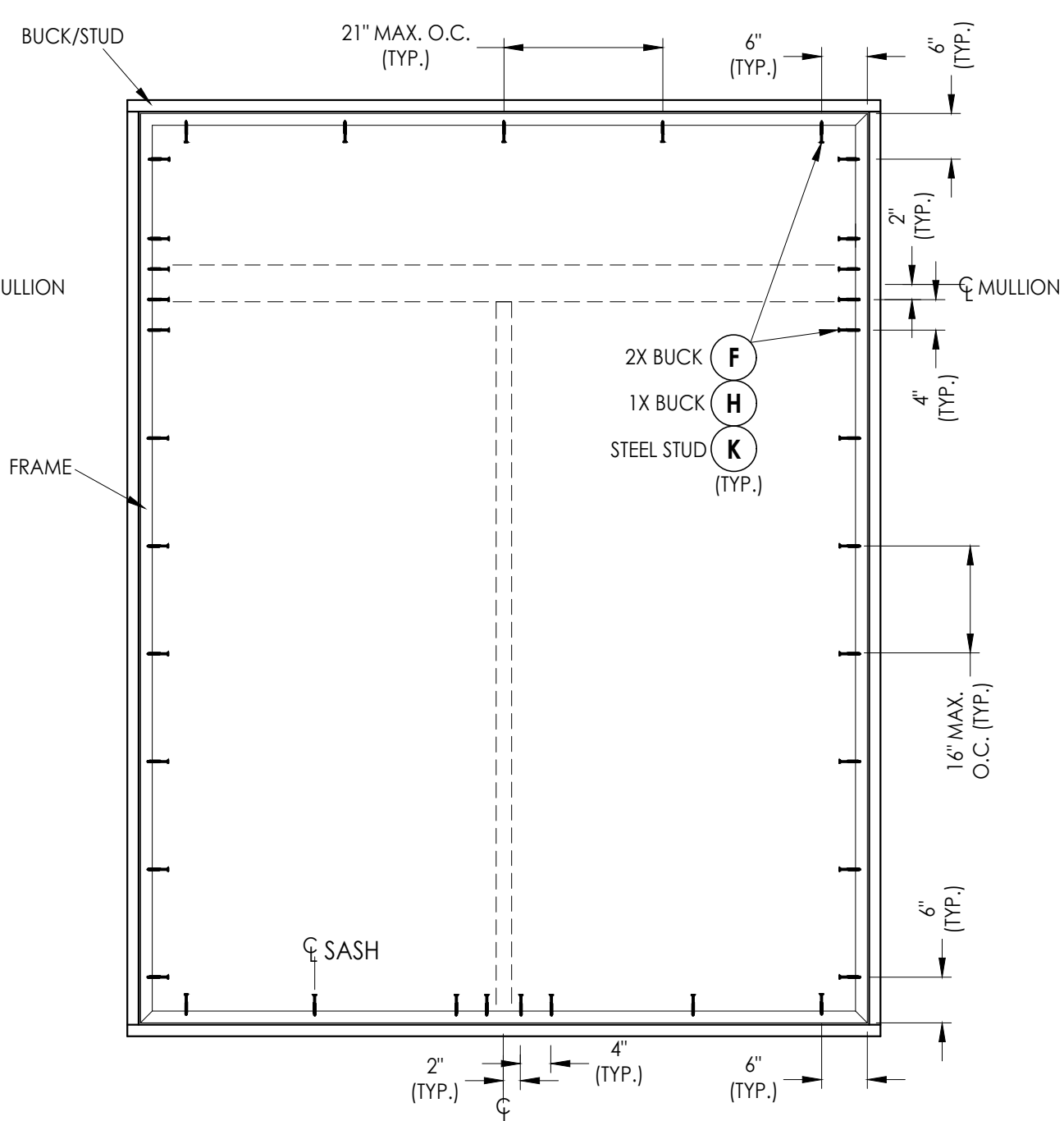
CONCRETE ANCHOR NOTES:

- 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:

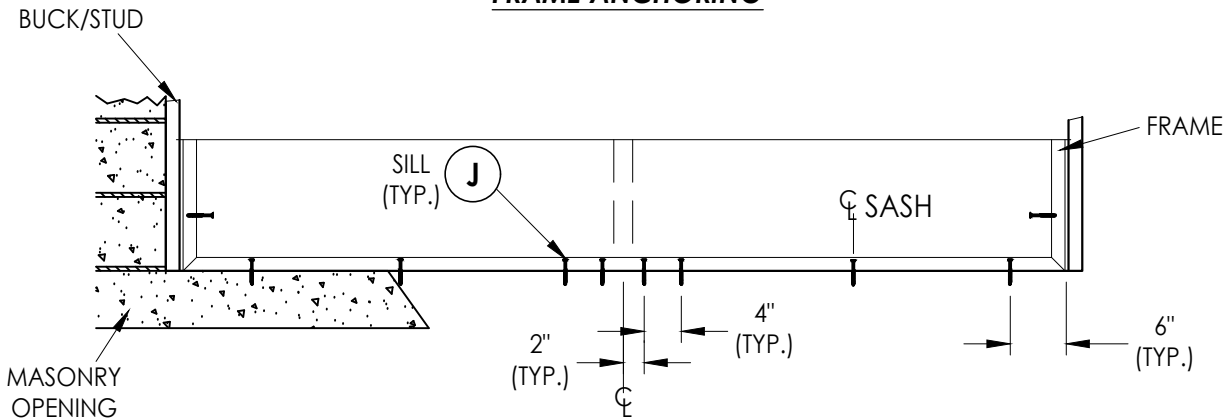
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

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.



FRAME ANCHORING



ALTERNATE FRAME ANCHORING
DIRECT TO MASONRY @ SILL

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RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: NOVATECH
PATIO DOOR

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

NO.	DATE	REVISIONS
2	9/14/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	10/01/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 7/12/18

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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

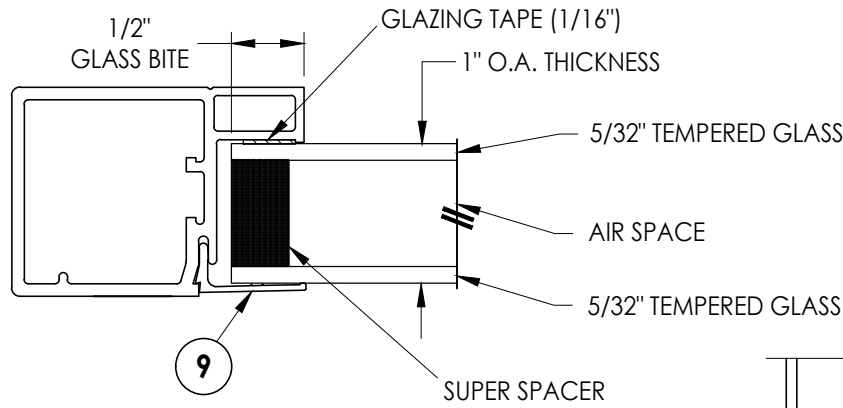
FL-27628.7

SHEET 4 OF 5

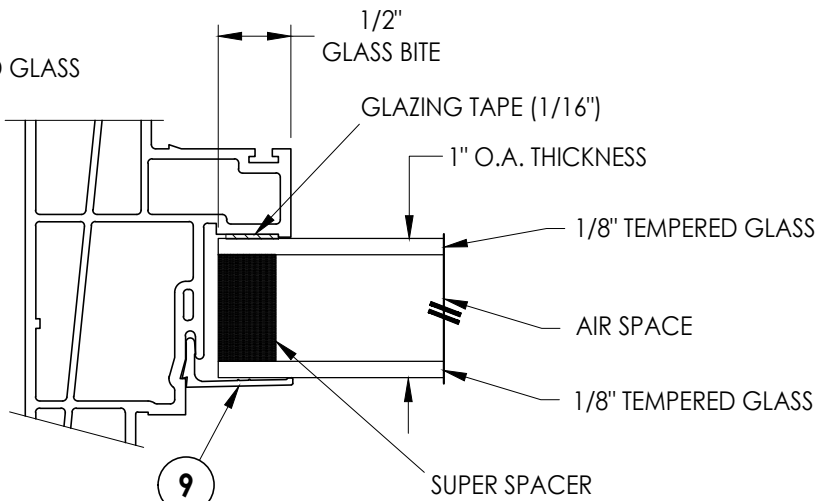
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#8 X 2-1/2" PPH SMS (1-1/4" MIN. EMBEDMENT)	STEEL
G	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 2-1/4" PFH DeWALT OR ITW 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
1	FRAME*	PVC
2	TRANSOM MULLION*	PVC
3	SASH*	PVC
4	MEETING STILE*	PVC
5	XO MULLION*	PVC
6	FIXED RAIL*	PVC
9	GLAZING BEAD*	PVC
10	ROLLER ASSM.	PVC
11	SILL TOWER RISER*	PVC
12	FRAME FILLER*	PVC
14	REINFORCEMENT (SASH STILE)	STEEL
15	REINFORCEMENT (MEETING STILE)	STEEL
17	REINFORCEMENT (XO MULLION)	STEEL
20	REINFORCEMENT (XO MULLION)	STEEL

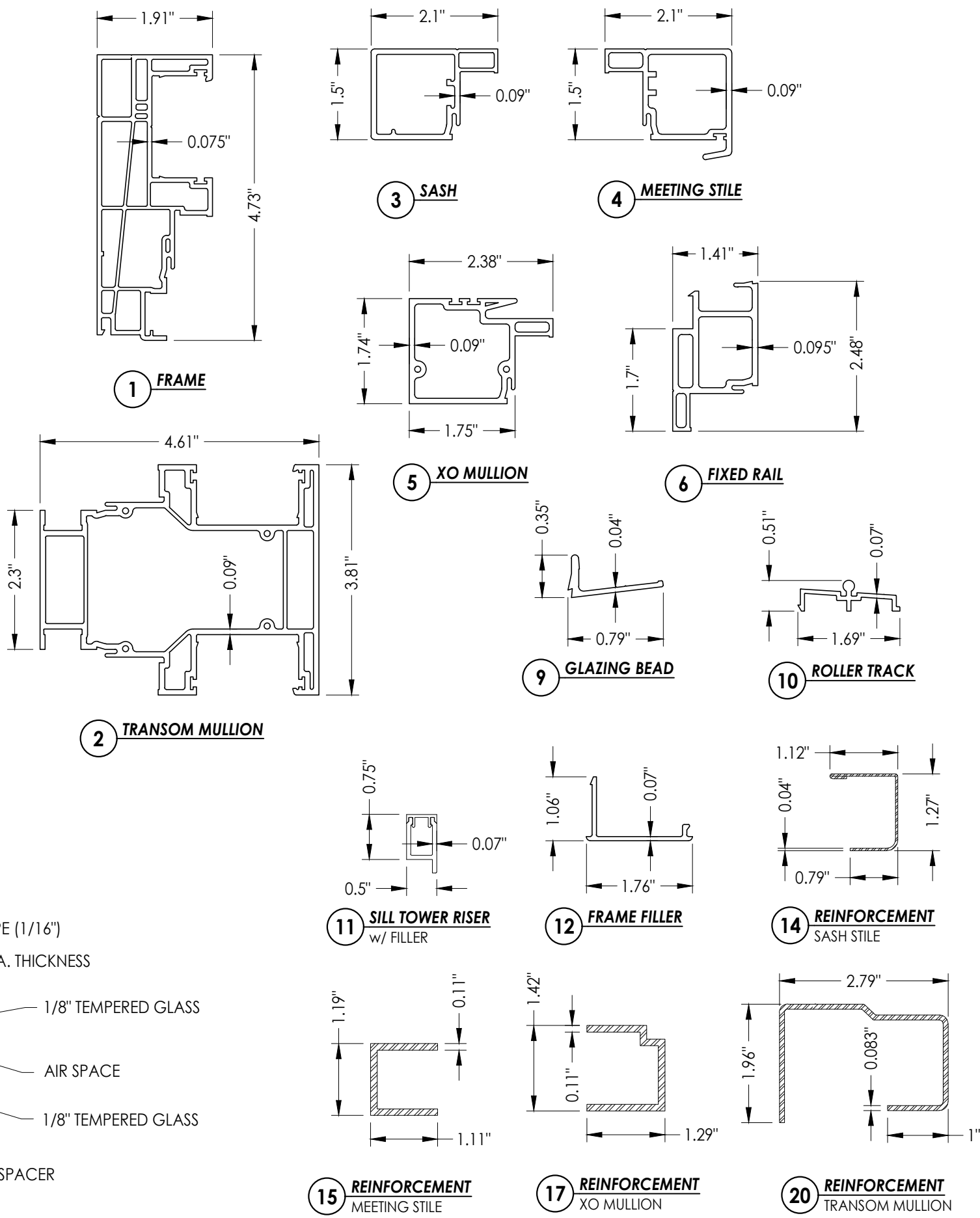
* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATIONS PROGRAMS FOR RIGID PVC EXTRUSIONS".



G1 GLAZING DETAIL



G2 GLAZING DETAIL



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PRODUCT:	NOVATECH PATIO DOOR
PART OR ASSEMBLY:	BILL OF MATERIALS, GLAZING DETAILS & COMPONENTS

NO.	DATE	REVISIONS
1	9/14/23	UPDATE TO 8TH ED. (2023) FBC
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DATE: 7/12/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-27628.7

SHEET 5 OF 5