

Z:\2023 FBC Drawings\Novatech Patio Doors\FL-29466 R3\FL-29466.3.dwg

Novatech®

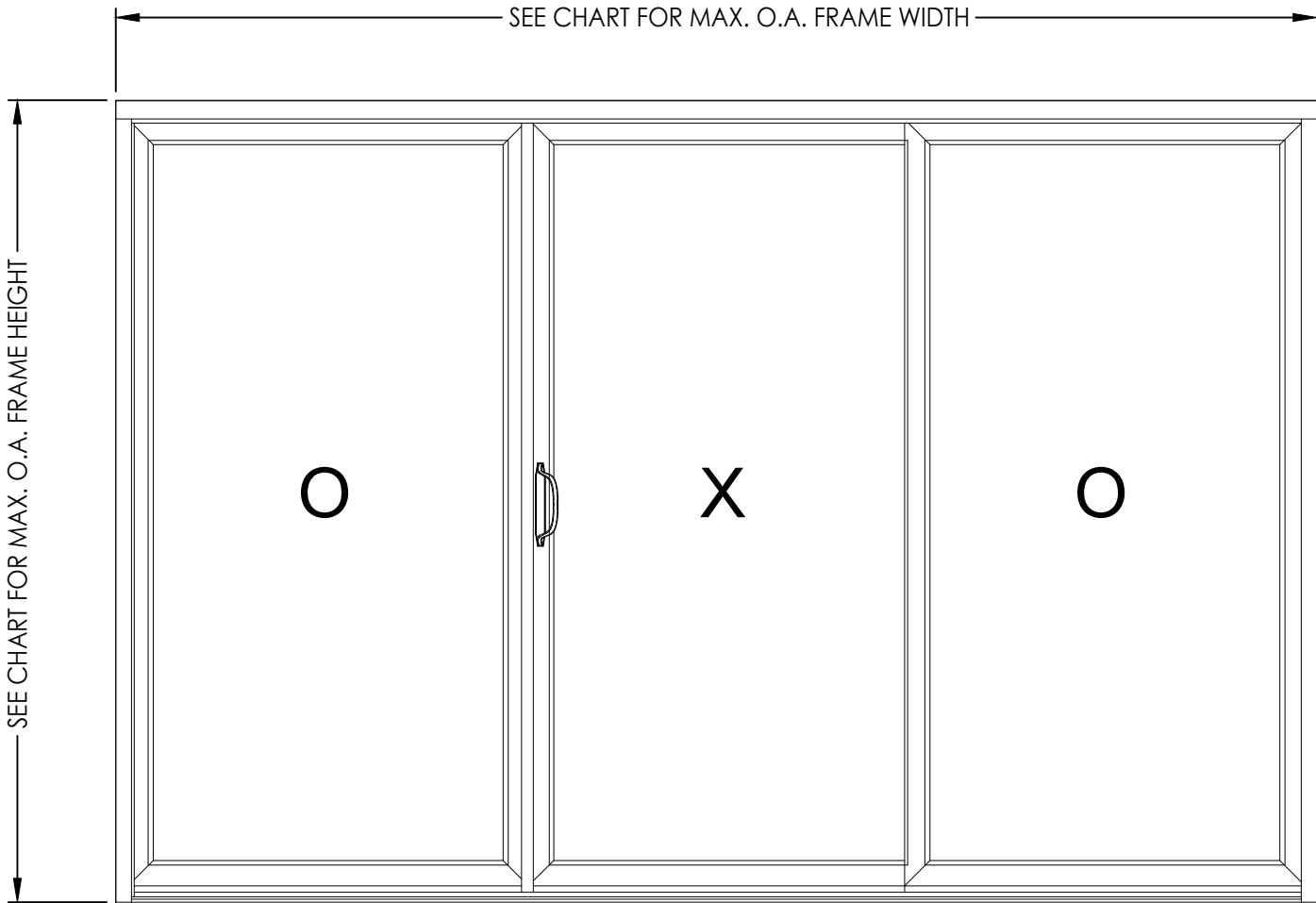
R-650
SLIDING PATIO DOOR
"NON-IMPACT"

GENERAL NOTES

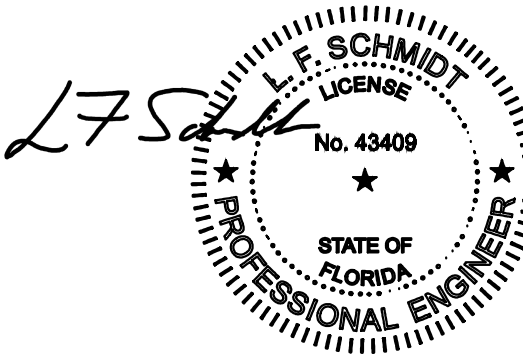
1. This product anchoring drawing is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ). See the Certification Agency Certificate for sizes, specifcations and ratings.
2. Product anchors shall be as listed 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 anchoring
5	Frame anchoring
6	Bill of materials, glazing details & components



MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
143.15" X 95.5"	42.6" x 86.77"	G1	+35.0	-35.0



Digitally signed
by Lyndon F
Schmidt
Date: 2023.09.14
09:47:43 -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

RW 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

NO.	DATE	REVISED TO CERTIFICATION MARK	FBC (2020)	FBC (2023)	LFS	BY	REVISIONS
3	9/14/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS		
2	10/01/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS		
1	10/30/19	REVISED TO CERTIFICATION MARK			LFS		

DATE: 4/18/19

SCALE: N.T.S.

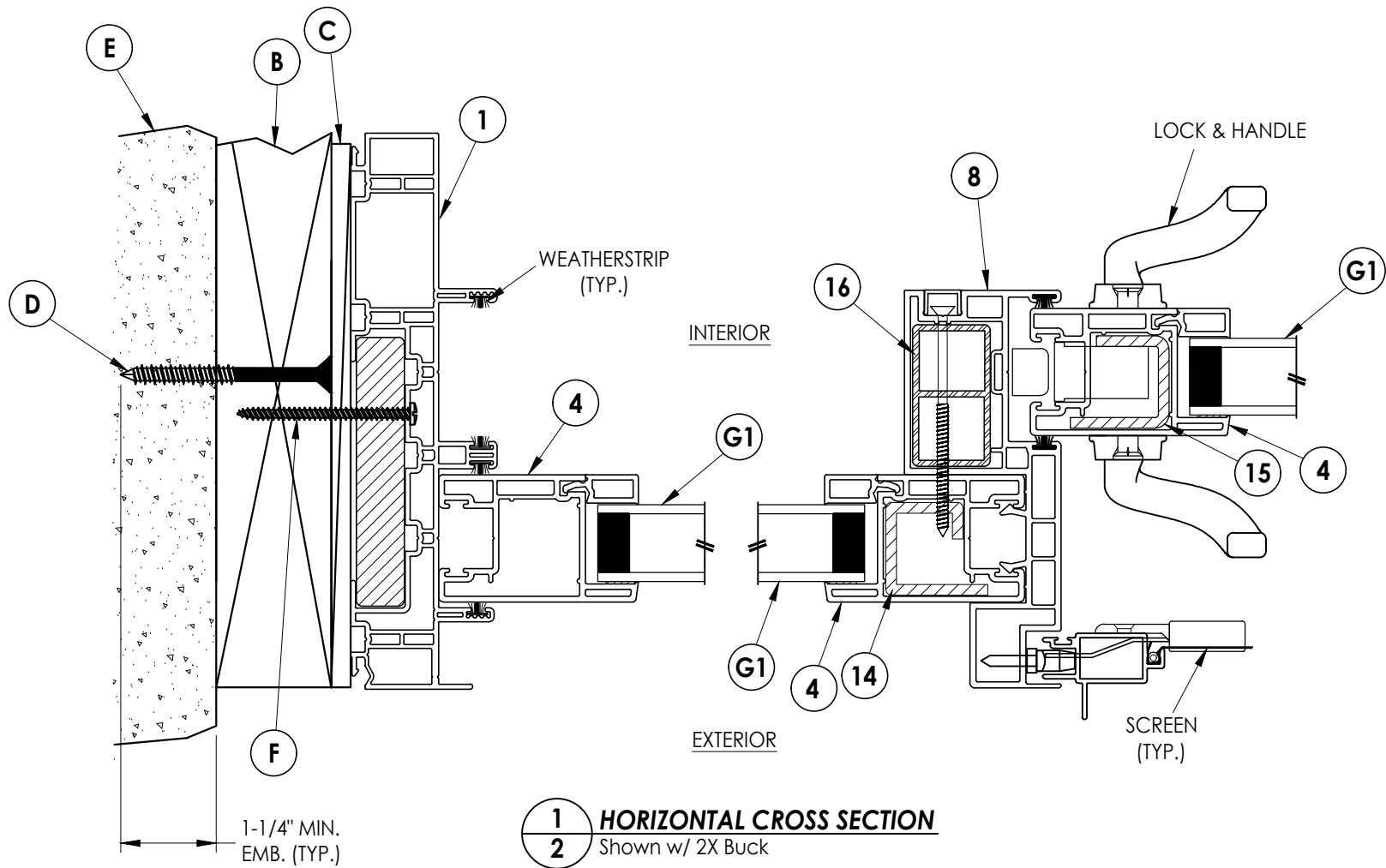
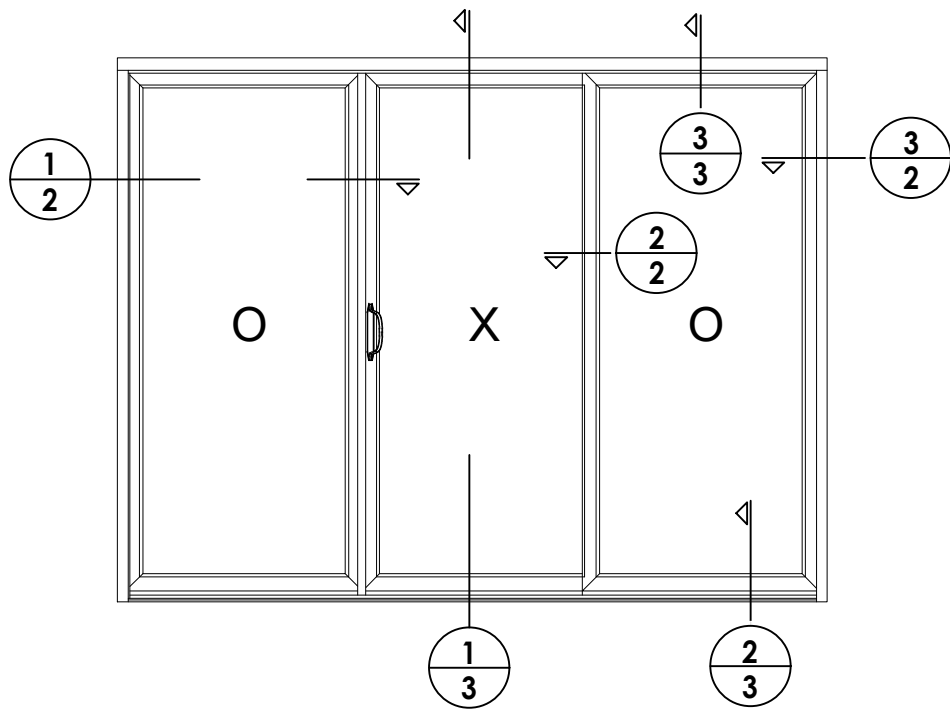
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CHK. BY: RW

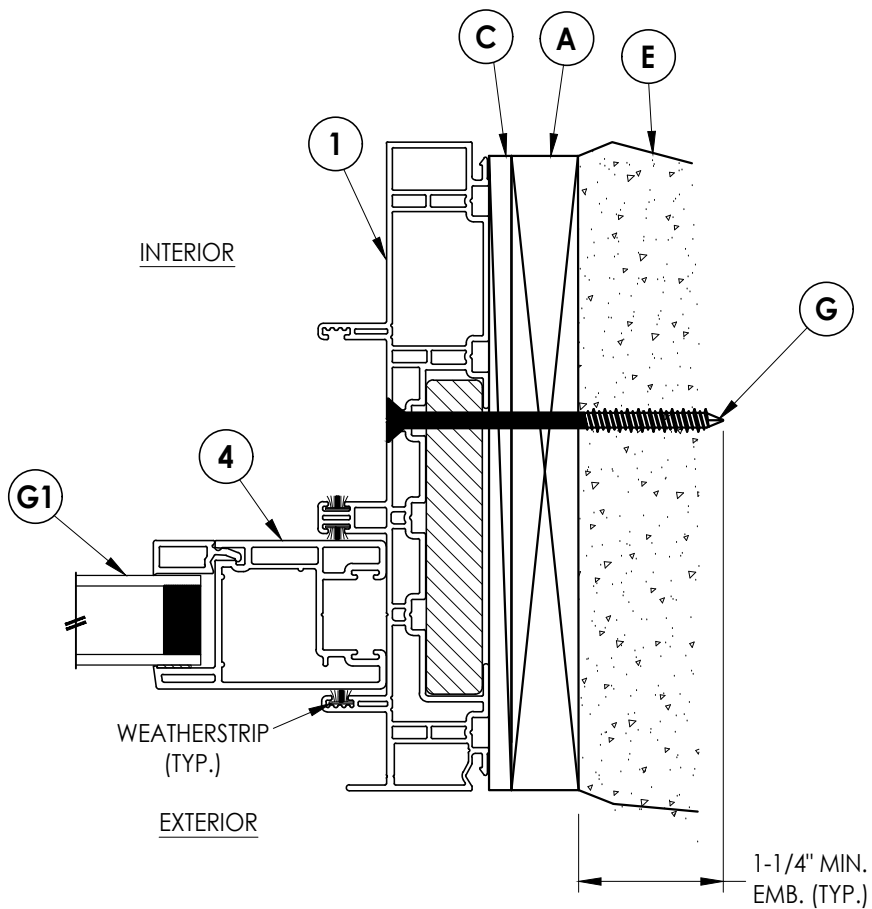
DRAWING NO.:
FL-29466.3

SHEET 1 OF 6

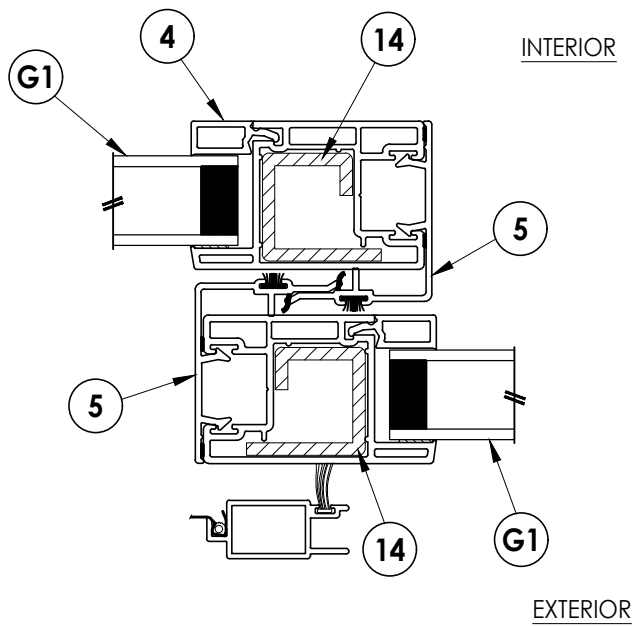
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1
2 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck



3
2 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck Construction



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

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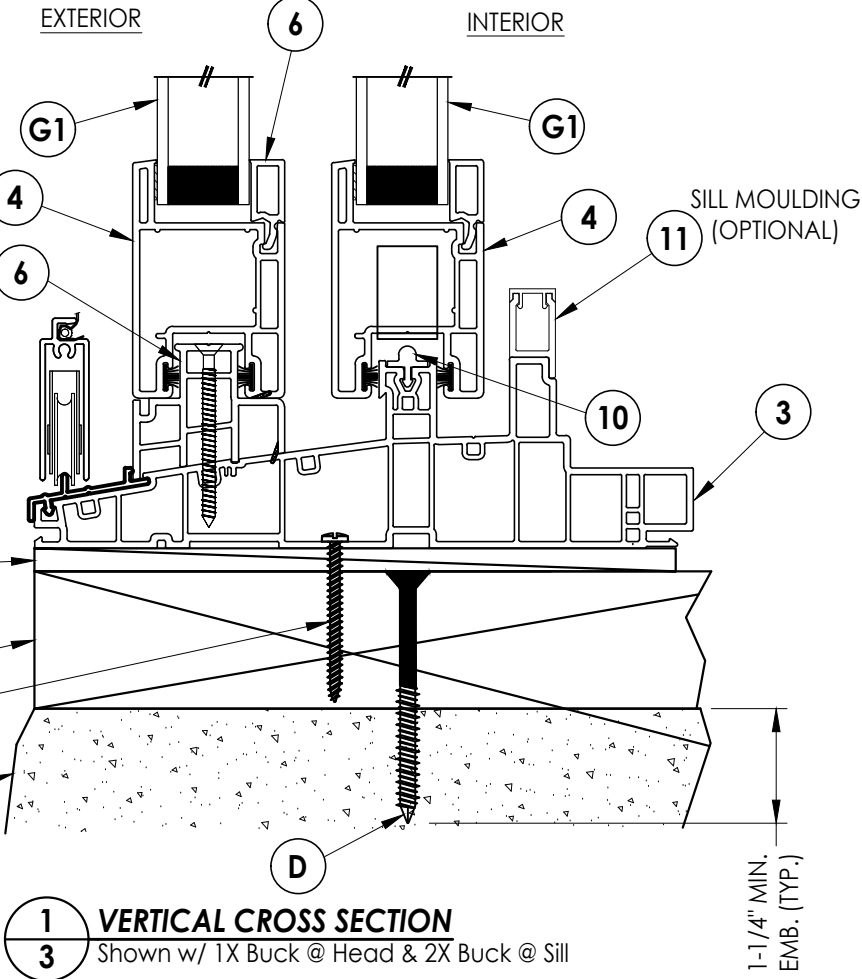
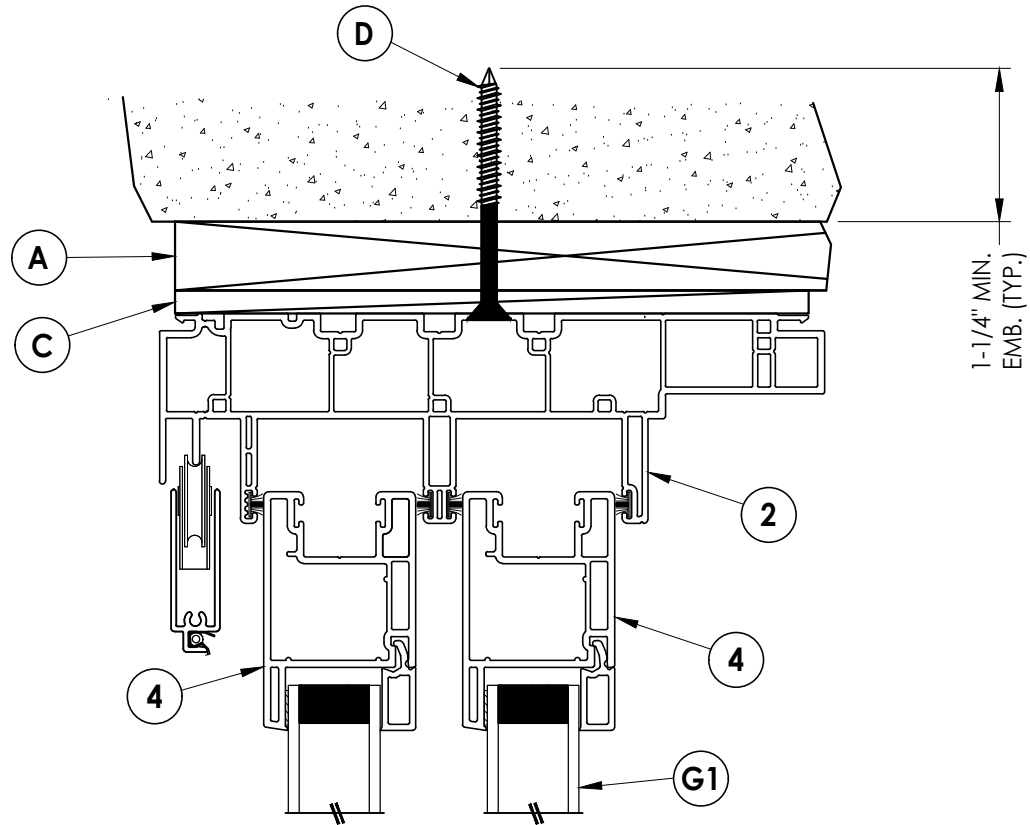
PRODUCT:
NOVATECH
PATIO DOOR

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

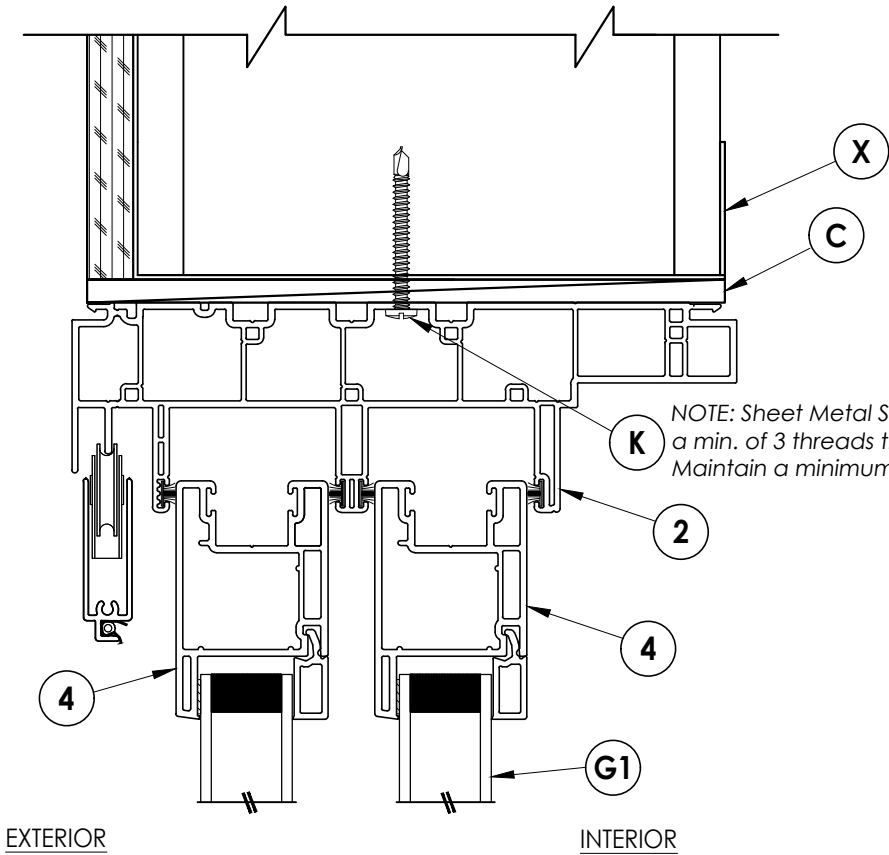
NO	DATE	REVISIONS	BY
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1	10/30/19	REVISED TO CERTIFICATION MARK	LFS

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SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-29466.3
SHEET 2 OF 6

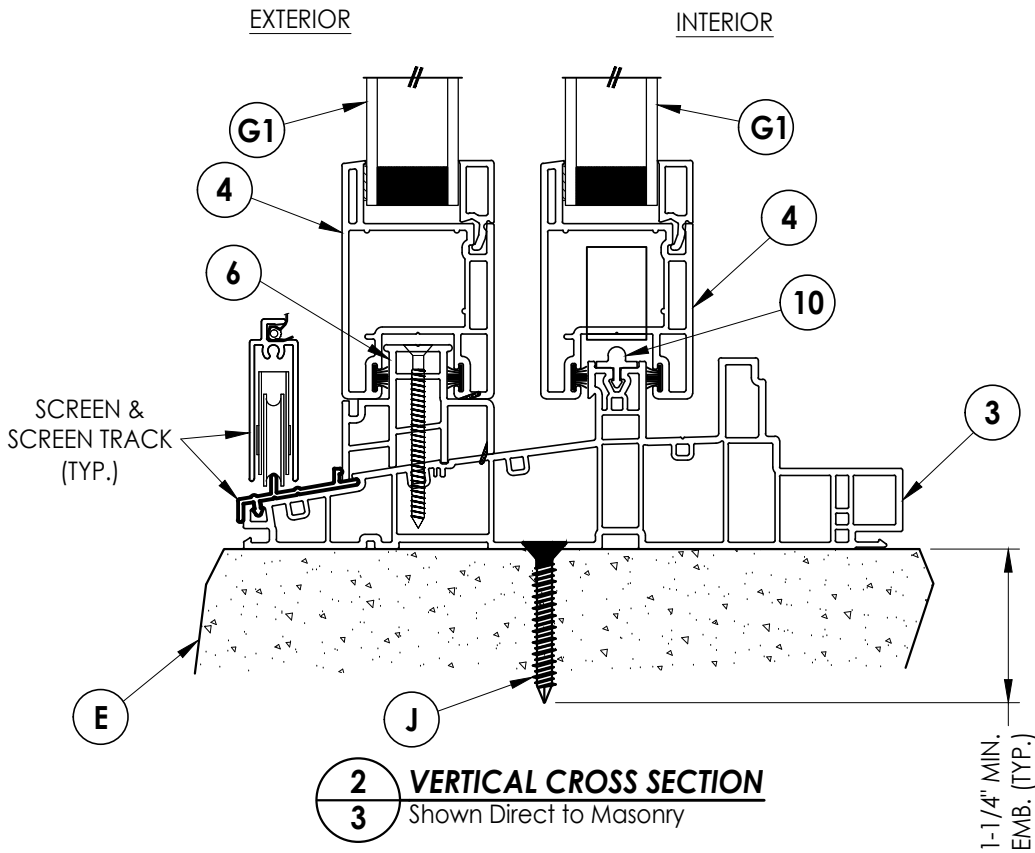
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1
3 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck @ Head & 2X Buck @ Sill



3
3 **VERTICAL CROSS SECTION**
Shown w/ Steel Stud Framing



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

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NOVATECH
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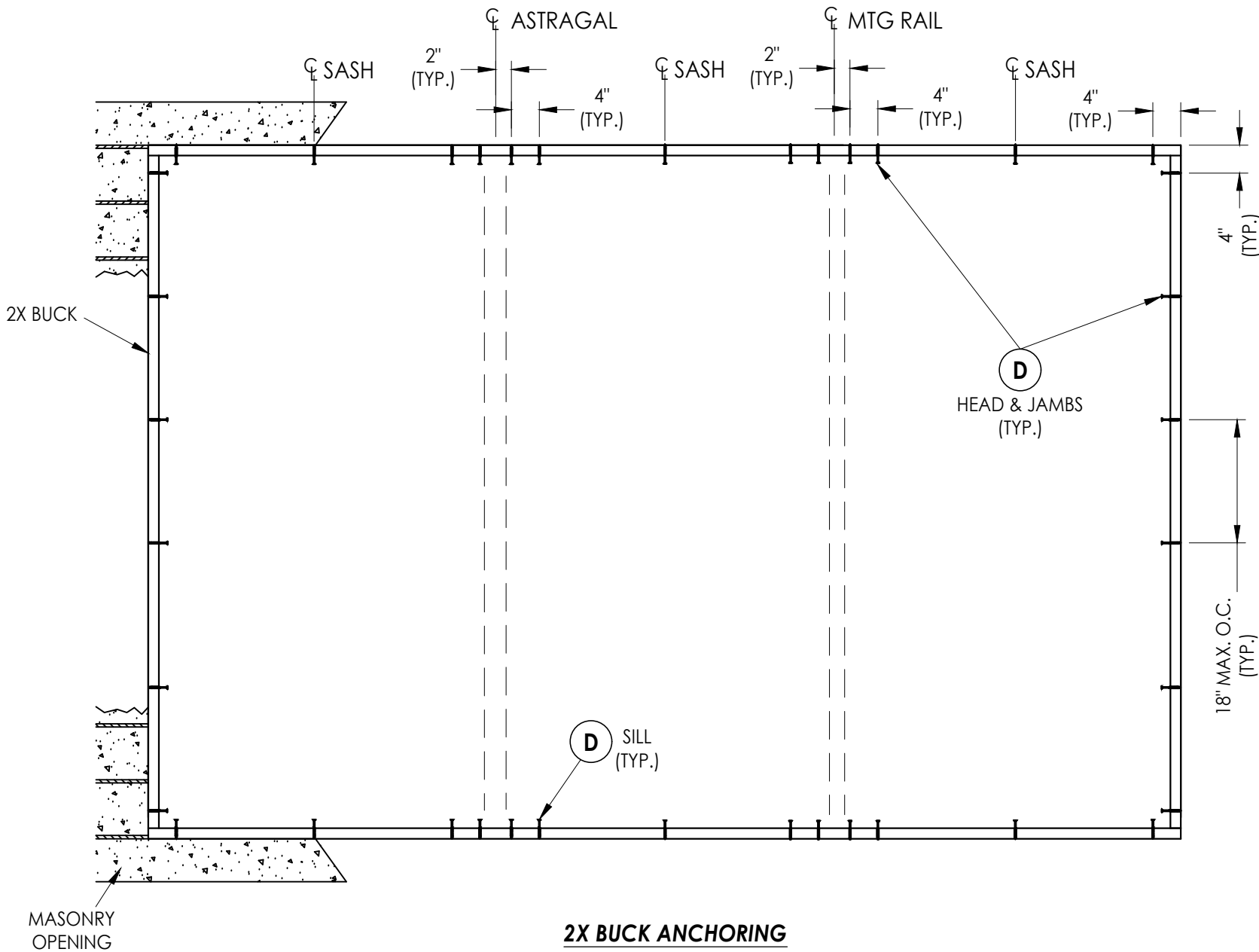
PART OR ASSEMBLY:

VERTICAL
CROSS SECTIONS

REVISIONS	
NO.	DATE
3	9/14/23
2	10/01/20
1	10/30/19
	NO. DATE

DATE:	4/18/19
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SHEET	3 OF 6

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CONCRETE ANCHOR NOTES:

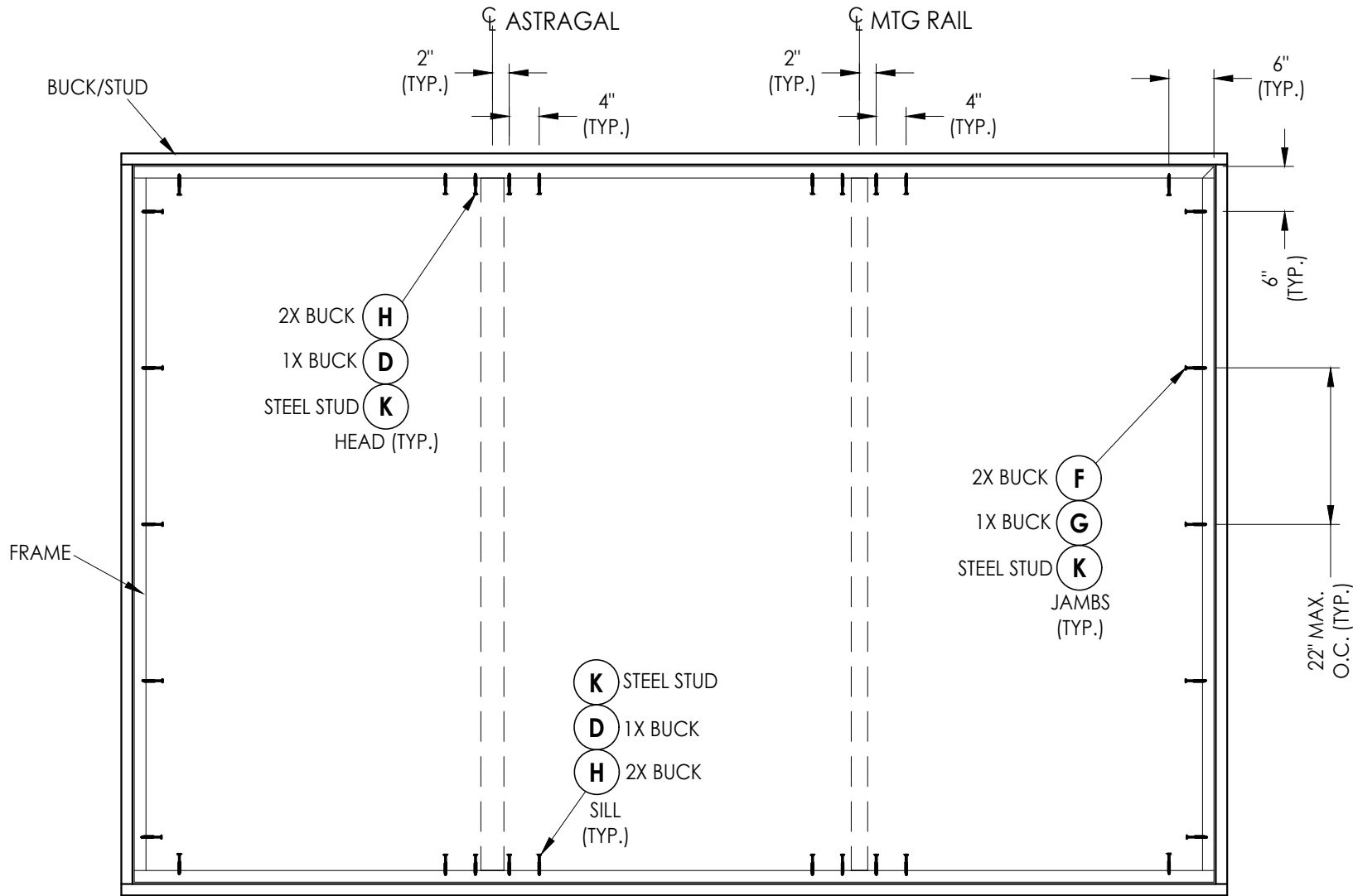
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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"

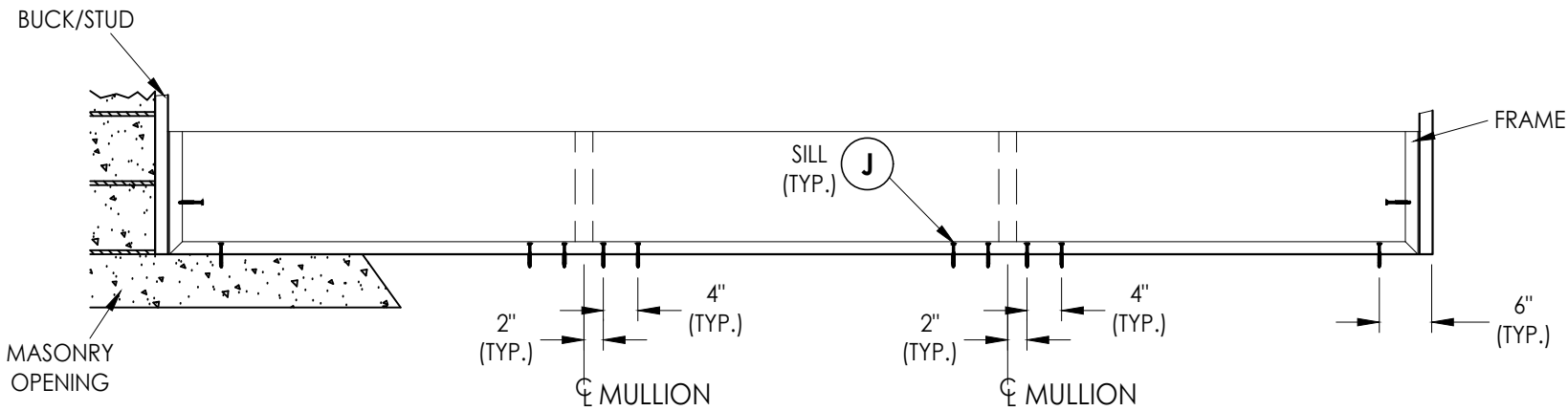
WOOD SCREW INSTALLATION NOTES:

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

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PRODUCT: NOVATECH PATIO DOOR				PART OR ASSEMBLY: BUCK ANCHORING				
				3	9/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
				2	10/01/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
				1	10/30/19	REVISED TO CERTIFICATION MARK	LFS	BY
NO.				DATE				
				REVISIONS				
DATE: 4/18/19								
SCALE: N.T.S.								
DWG. BY: LFS								
CHK. BY: RW								
DRAWING NO.: FL-29466.3								
SHEET 4 OF 6								



FRAME ANCHORING



ALTERNATE FRAME ANCHORING
DIRECT TO MASONRY @ SILL

NO.	DATE	REVISIONS
3	9/14/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	10/01/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/30/19	REVISED TO CERTIFICATION MARK LFS
		BY

DATE:	4/18/19
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-29466.3
SHEET	5 OF 6

PRODUCT:	NOVATECH PATIO DOOR
PART OR ASSEMBLY:	FRAME ANCHORING

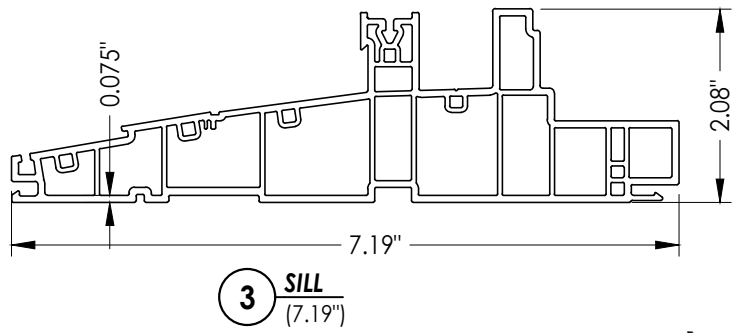
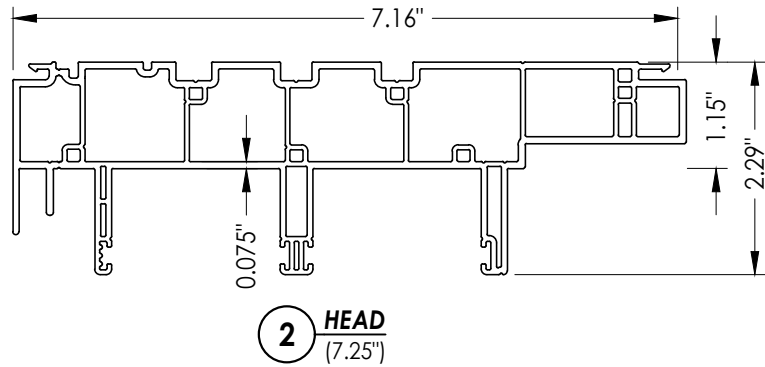
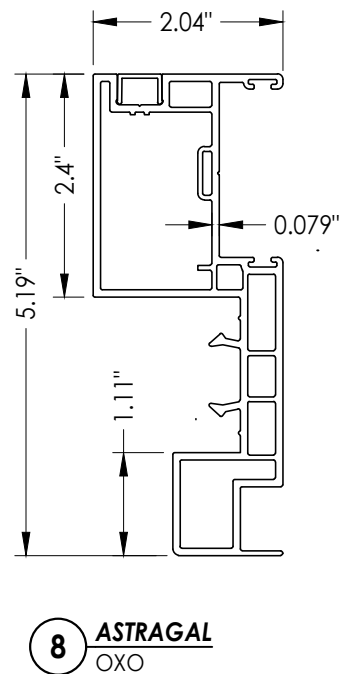
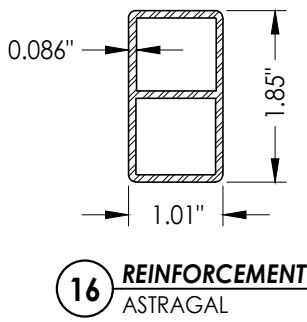
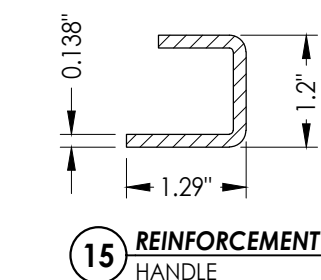
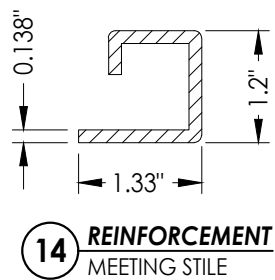
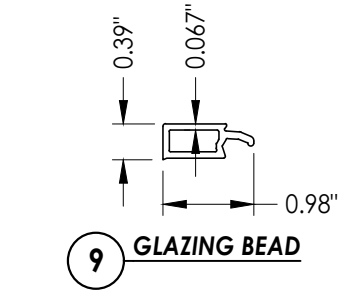
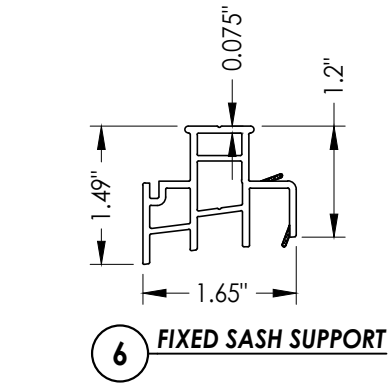
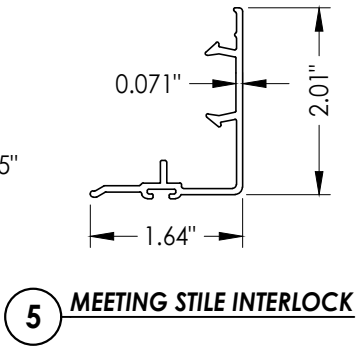
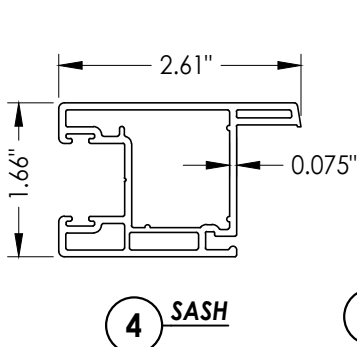
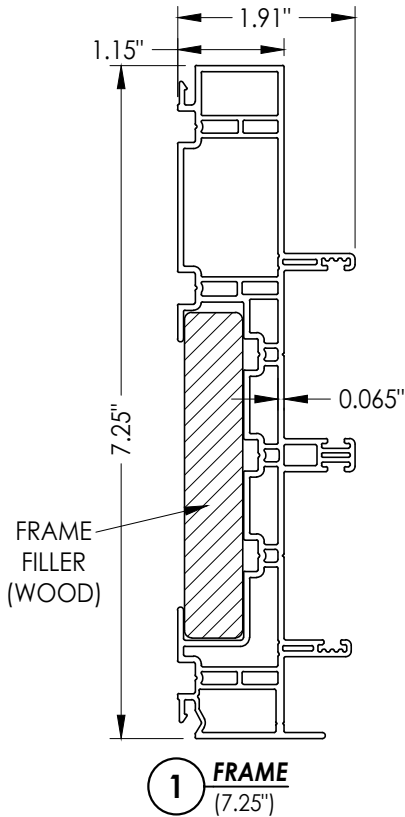
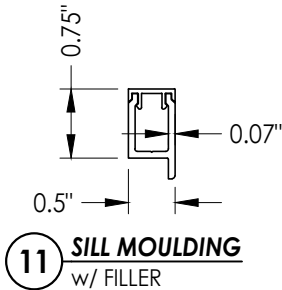
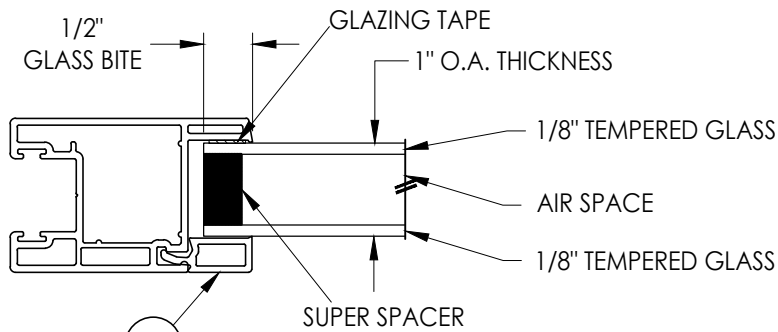
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#8 X 2-1/2" PPH SMS (1-1/8" MIN. EMBEDMENT)	STEEL
G	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
H	#8 X 1-3/4" PPH SMS (1-3/8" MIN. EMBEDMENT)	STEEL
J	1/4" X 1-3/4" 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 (7.25")*	PVC
2	HEAD (7.25")*	PVC
3	SILL (7.19")*	PVC
4	SASH*	PVC
5	MEETING STILE INTERLOCK*	PVC
6	FIXED SASH SUPPORT*	PVC
8	ASTRAGAL*	PVC
9	GLAZING BEAD*	PVC
10	ALUMINUM RAIL	ALUM
11	SILL MOULDING*	PVC
14	REINFORCEMENT (MEETING STILE)	STEEL
15	REINFORCEMENT (HANDLE)	STEEL
16	REINFORCEMENT (ASTRAGAL)	ALUM

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



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PRODUCT: NOVATECH PATIO DOOR		PART OR ASSEMBLY: BILL OF MATERIALS, GLAZING DETAILS & COMPONENTS	
		LFS	
		FBC	
3	9/14/23	UPDATE TO 8TH ED. (2023)	
2	10/01/20	UPDATE TO 7TH ED. (2020)	
1	10/30/19	REVISED TO CERTIFICATION MARK	
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REVISIONS			
DATE: 4/18/19			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-29466.3			
SHEET 6 OF 6			