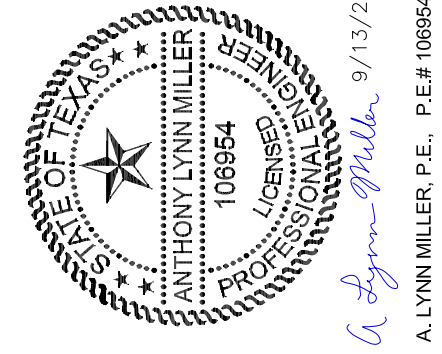




SERIES 9000, MODEL 9500-3
HORIZONTAL ROLLER WINDOW,
NON-IMPACT RESISTANT,
EQUAL-LEG FRAME

DESIGN PRESSURE RATING	NOT RATED FOR MISSILE IMPACT RESISTANCE
+50.0 / -50.0 PSF	



1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) FOR THE DESIGN PRESSURES LISTED.

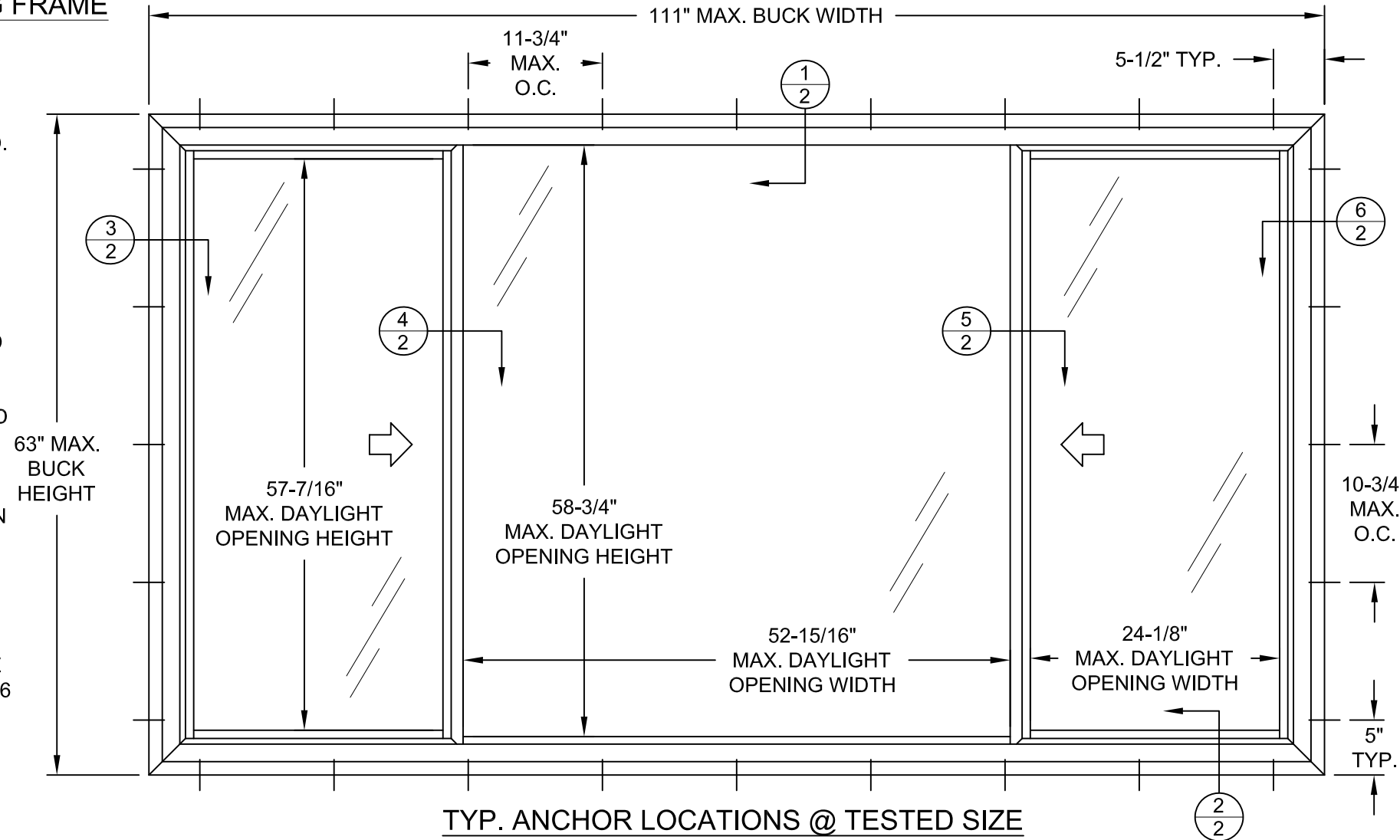
2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) MASONRY ANCHORS MAY BE USED INTO WOOD. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE FOR CORROSION RESISTANCE.



TYP. ANCHOR LOCATIONS @ TESTED SIZE
(1/4 - 1/2 - 1/4 CONFIGURATION SHOWN)

Window Buck Size		Design Pressure		Certification Number
Width	Height	(+) psf	(-) psf	
63"	111"	50.0	50.0	NI015371

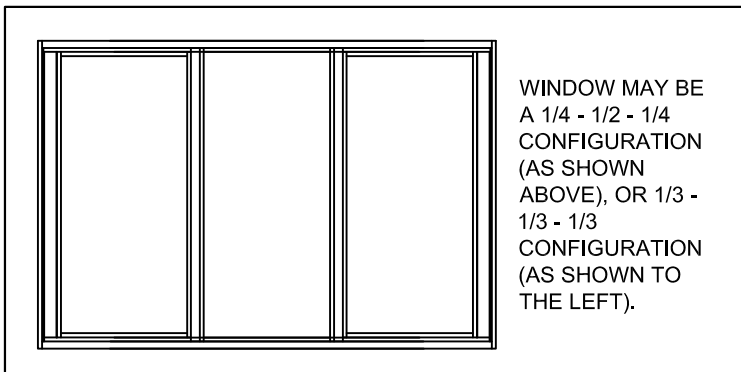


TABLE 1:

Allowable Glass Types	For Fixed Lite, XOX 1/4 - 1/2 - 1/4					
	Width					
	60"	72"	84"	96"	108"	111"
Height 36"	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4
48"	1 - 4	1 - 4	1 - 4	1 - 4	2 - 4	2 - 4
54"	1 - 4	1 - 4	1 - 4	2 - 4	2 - 4	2 - 4
60"	1 - 4	1 - 4	2 - 4	2 - 4	3 & 4	3 & 4
63"	1 - 4	1 - 4	2 - 4	2 - 4	3 & 4	3 & 4

- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
- 2) FOR GLASS DESCRIPTIONS, SEE SHEET 3.
- 3) BUCK DIMENSIONS SHOWN.
- 4) SASHES ARE APPROVED WITH ALL GLASS TYPES, 1-4, AT ALL SIZES.

TABLE 2:

Allowable Glass Types	for All Lites, XOX 1/3 - 1/3 - 1/3			
	Width			
	48"	60"	72"	82-7/8"
Height 36"	1 - 4	1 - 4	1 - 4	1 - 4
48"	1 - 4	1 - 4	1 - 4	1 - 4
54"	1 - 4	1 - 4	1 - 4	1 - 4
60"	1 - 4	1 - 4	1 - 4	1 - 4
63"	1 - 4	1 - 4	1 - 4	1 - 4

- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
- 2) FOR GLASS DESCRIPTIONS, SEE SHEET 3.
- 3) BUCK DIMENSIONS SHOWN.
- 4) FIXED LITE & SASHES ARE APPROVED WITH ALL GLASS TYPES, 1-4, AT ALL SIZES.

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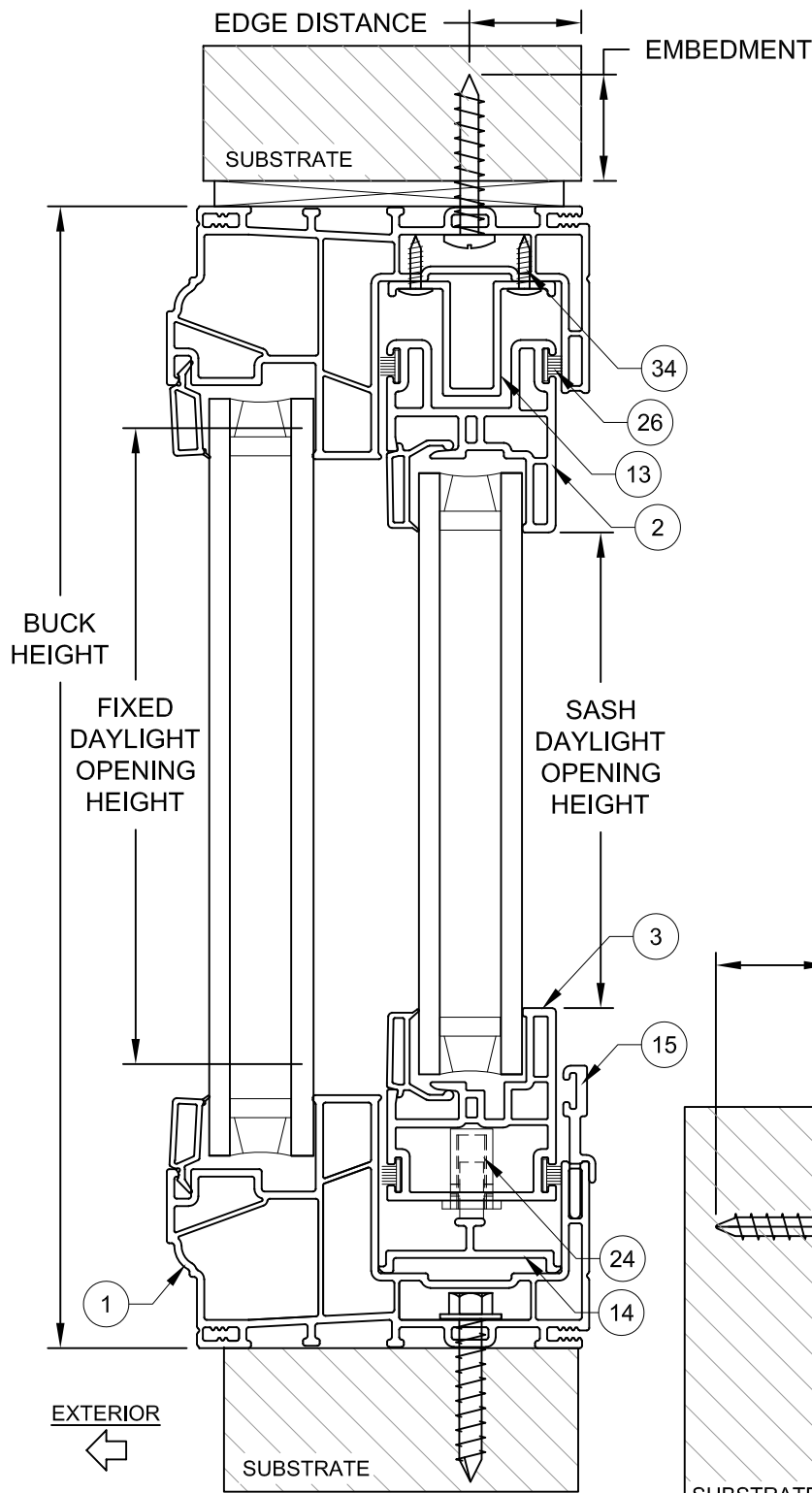
PREPARED BY: A. LYNN MILLER, P.E.
 1070 TECHNOLOGY DR
 N. VENICE, FL 34275
 (941)-480-1600

BY: SERIES 9000 HORIZONTAL ROLLER
 GENERAL NOTES, DESIGN PRESSURES,
 GLAZING DETAILS & ANCHOR ELEVATION
 NEWSOUTH WINDOW SOLUTIONS
 10741 CROSSROADS COMMERCE BLVD.
 TAMPA, FL 33610

REVISION:				
DATE:				
#:				

DATE: 09/09/21
 SCALE: NTS
 BY: JENS ROSOWSKI
 DRAWING #: HR9500-3-TDI-01
 SHEET: 1 OF 4

- 1 HORIZONTAL CROSS SECTION
- 2 WOOD OR MASONRY CONSTRUCTION



- 2 HORIZONTAL CROSS SECTION
- 2 WOOD OR MASONRY CONSTRUCTION

TABLE 3: INSTALLATION ANCHORS

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#10 or #12 Steel or 410 SS Screw	Southern Pine (SG = .55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.050"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (20 Ga)
	A36 Steel	3/8"	0.050"
3/16" Steel Ultracon	Concrete (min. 2.9 ksi)	1"	1-3/8"
	Grouted CMU, (ASTM C-90)	2-1/2"	2-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"
3/16" Steel Ultracon+	Concrete (min. 2.9 ksi)	1"	1-3/4"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"
1/4" Steel Ultracon or Ultracon+	Concrete (min. 3.0 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

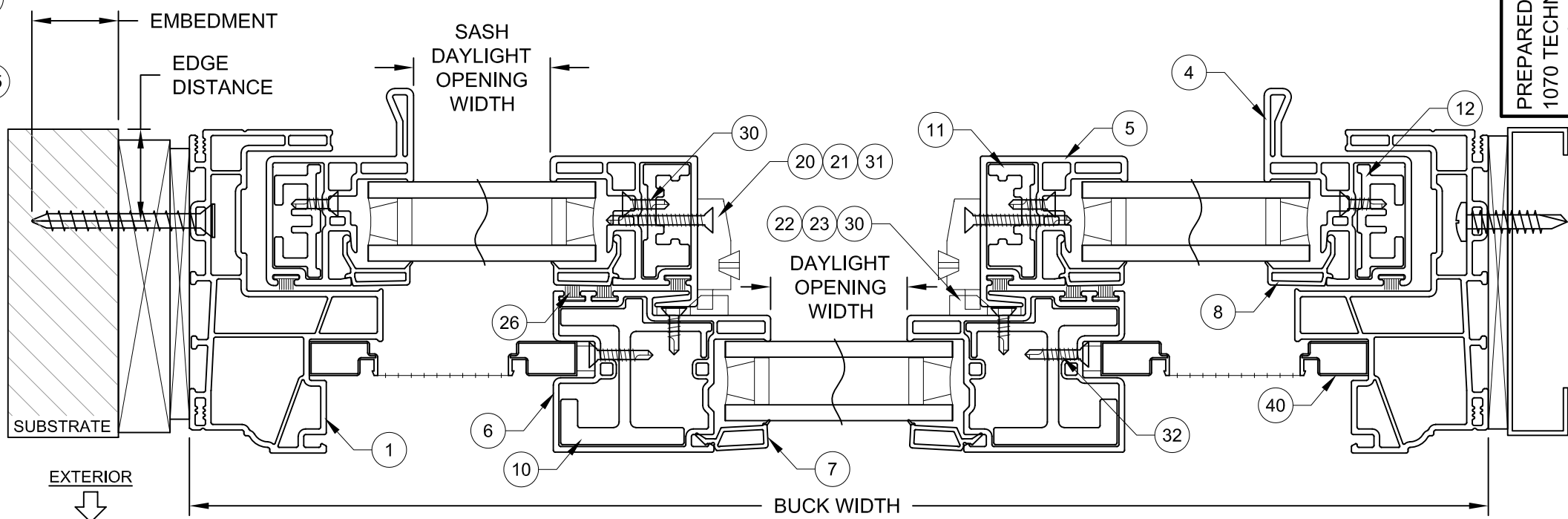
INSTALLATION NOTES:

1) CONCRETE ANCHOR LOCATIONS AT THE CORNERS MAY BE LOWERED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS. SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.

2) CONCRETE ANCHOR LOCATIONS NOTED AS "MAX. ON CENTER" MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS. ADDITIONAL CONCRETE ANCHORS MAY BE REQUIRED TO ENSURE THE "MAX. ON CENTER" DIMENSION IS NOT EXCEEDED.

3) ANY INSTALLATION OPTION SHOWN (2X BUCK, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.

4) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. MAX. SHIM THICKNESS TO BE 1/4". ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY OR ALL SIDES OF THE WINDOW.

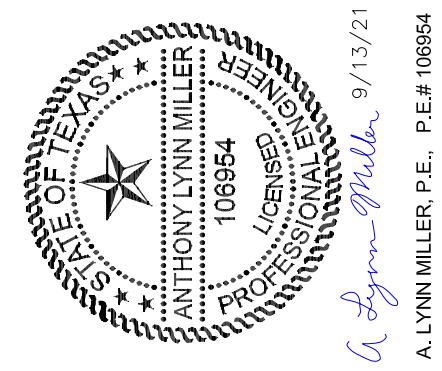


- 3 VERTICAL CROSS SECTION
- 2 USING 1X BUCK

- 4 VERTICAL CROSS SECTION
- 2 @ MEETING RAIL

- 5 VERTICAL CROSS SECTION
- 2 @ MEETING RAIL

- 6 VERTICAL CROSS SECTION
- 2 STEEL STUD CONSTRUCTION



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1070 TECHNOLOGY DR
N. VENICE, FL 34275
(941)-480-1600

BY: SERIES 9000 HORIZONTAL ROLLER
INSTALLATION SECTION VIEWS
NEWSOUTH WINDOW SOLUTIONS
10741 CROSSROADS COMMERCE BLVD.
TAMPA, FL 33610

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DRAWING #:	HR9500-3-TDI-01		
SHEET:	2 OF 4		

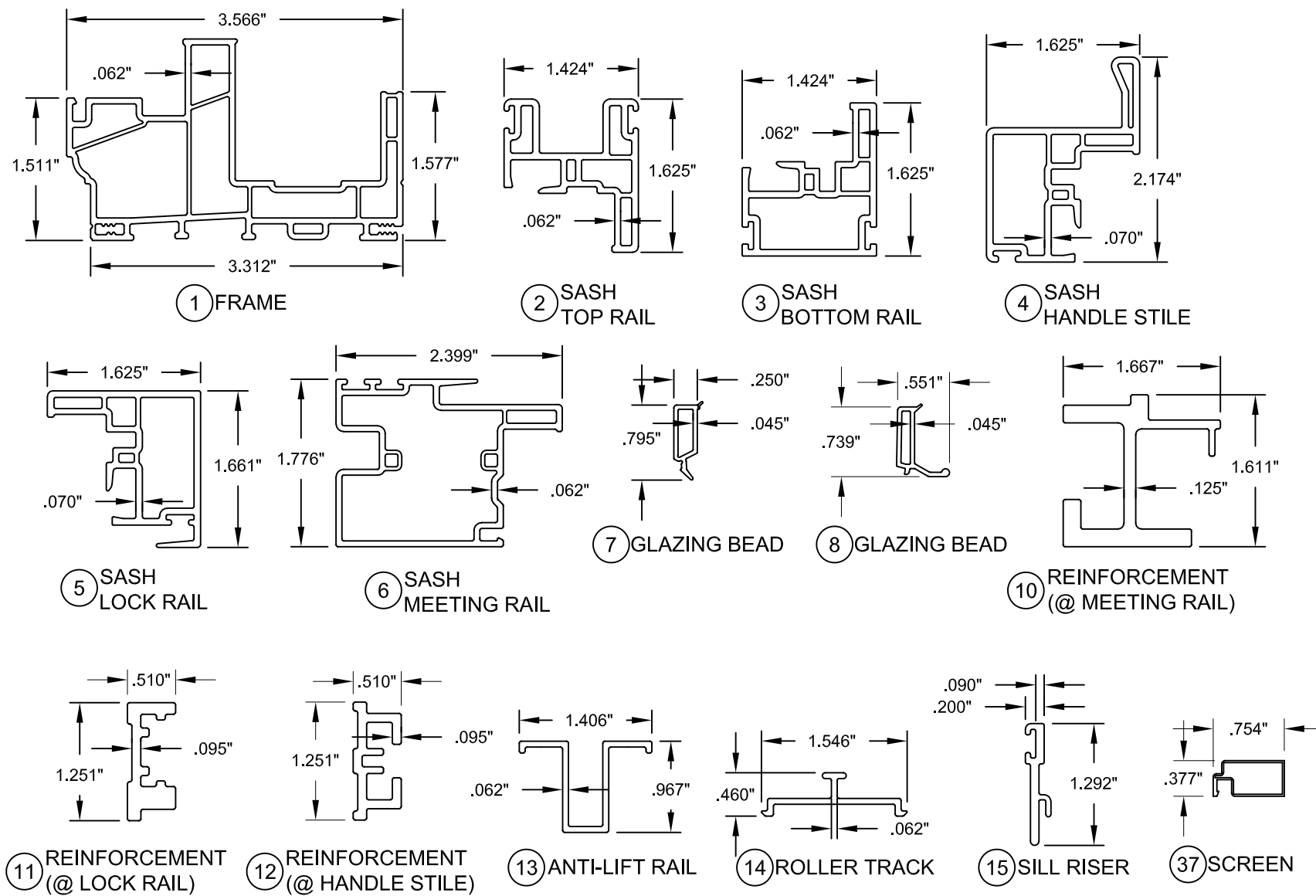
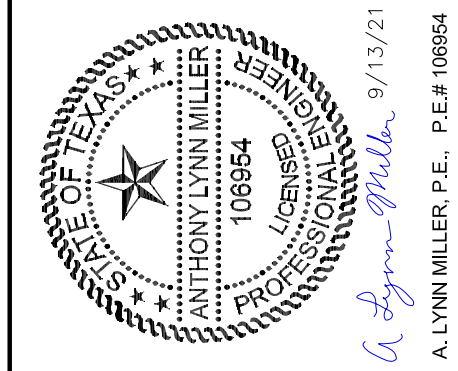
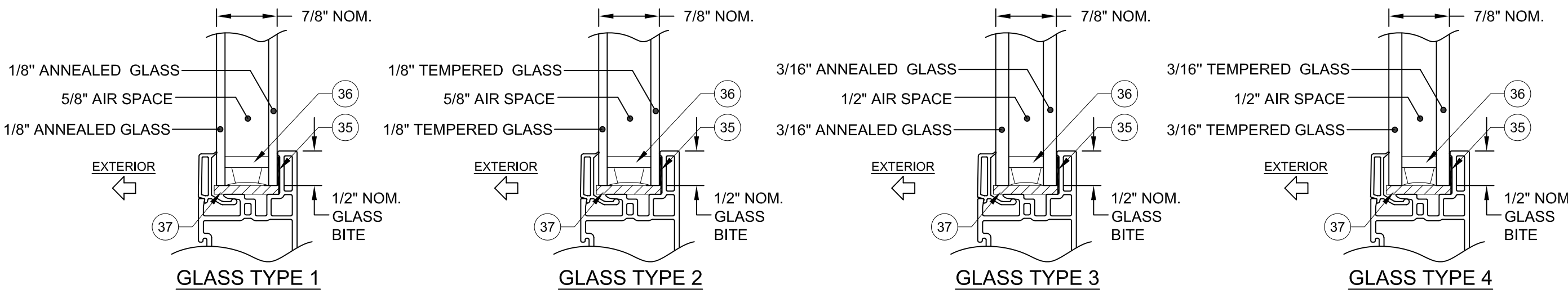


TABLE 4:

BILL OF MATERIALS			
ITEM #	PART #	DESCRIPTION	MATERIAL
1	9439	Frame	PVC
2	9478	Sash Top Rail	PVC
3	9424	Sash Bottom Rail	PVC
4	9475	Sash Handle Stile	PVC
5	9476	Sash Lock Rail	PVC
6	9477	Sash Meeting Rail	PVC
7	9436	Glazing Bead	PVC
8	9425	Glazing Bead	PVC
10	6165	Reinforcement @ Meeting Rail	6063-T6
11	6163	Reinforcement @ Lock Rail	6063-T6
12	6166	Reinforcement @ Handle Stile	6063-T6
13	6162	Anti-Lift Rail	6063-T6
14	6161	Roller Track	6063-T6
15	6158	Sill Riser	6063-T6
20	8097	Cam Lock	
21	8097	Autolock	
22	8302	Cam Lock Keeper	Zinc
23	8100	Autolock Keeper	Zinc
24	8153	Roller Assm.	
25	8223	Weep Cover	Composite
26	4007	Weatherstrip, .270" x .250" Polyfin	
30	1003	Screw, #6 x 1/2" PFH	Steel
31	1007	Screw, #6 x 1-1/4" PFH	Steel
32	1012	Screw, #6 x 3/4" PFH	Steel
33	1015	Screw, #8 x 1/2" PTRUSS	Steel
34	1067	Screw, #6 x 3/8" PPH	Steel
35		Sika 552, Dow 791/983 Backbedding	Glass
36		IG Spacer	varies
37		Setting Block	varies
40	6244	Screen	Nylon

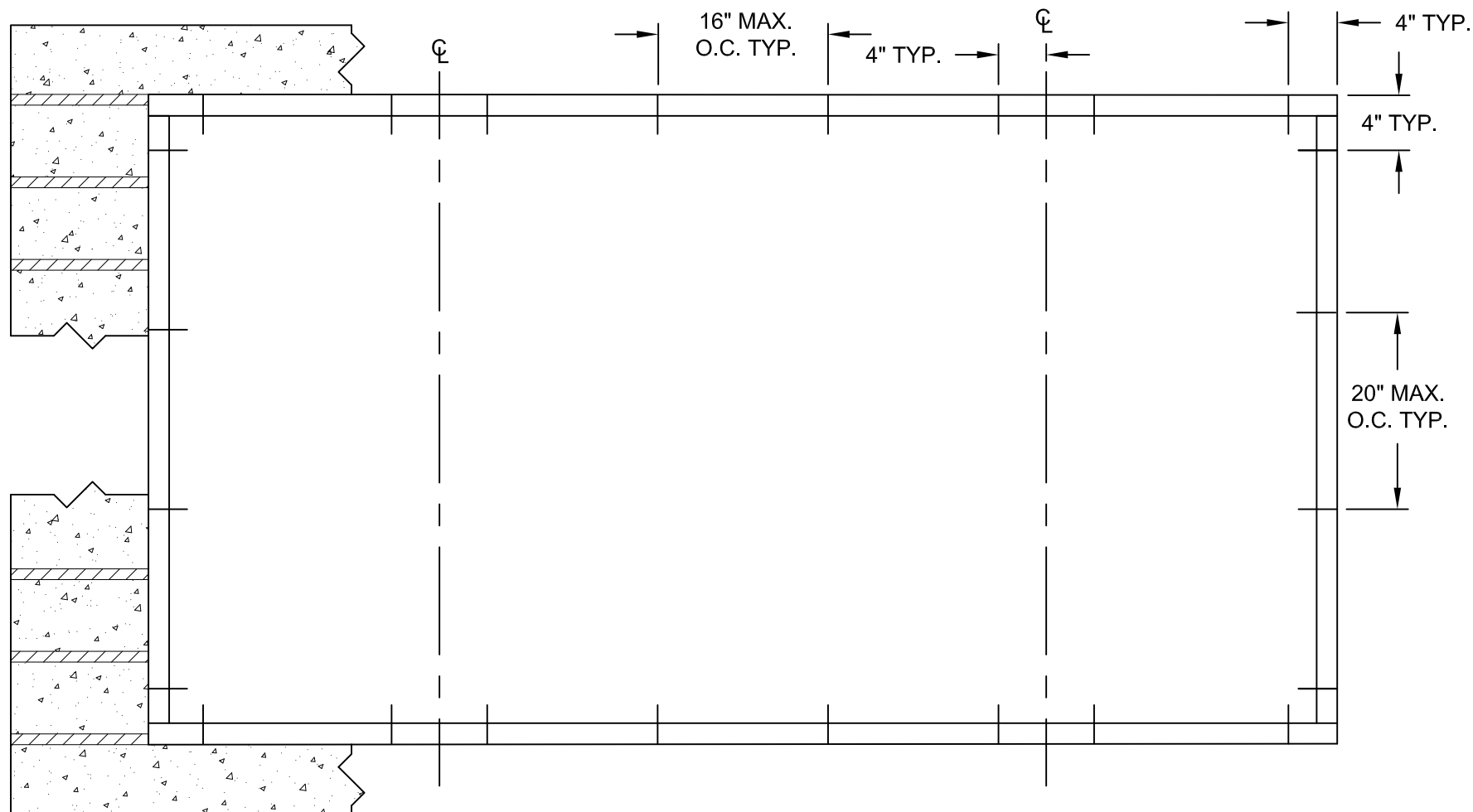
THE APPROVED WHITE, RIGID PVC EXTERIOR EXTRUSIONS FOR DOORS ARE TO BE PRODUCED BY EXTRUDERS' LICENSEES UNDER "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



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(941)-480-1600


SERIES 9000 HORIZONTAL ROLLER		EXTRUSIONS & BOM	
NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610			
BY:		REVISION:	
DATE:		DATE:	09/09/21
#:		SCALE:	NTS
BY: JENS ROSOWSKI			
DRAWING #: HR9500-3-TDI-01			
SHEET: 3 OF 4			



BUCK ANCHORAGE DETAIL

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
1/4" Steel Ultracon or Ultracon+	Concrete (min. 3.0 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"

- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUDED CMU APPLICATIONS.
- 2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
- 3) MASONRY ANCHOR LOCATIONS AT THE CORNERS MAY BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS.
- 4) MASONRY ANCHOR LOCATIONS NOTED AS "MAX. ON CENTER" MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS, ADDITIONAL MASONRY ANCHORS MAY BE REQUIRED TO ENSURE THE "MAX. ON CENTER" DIMENSION IS NOT EXCEEDED.



ANTHONY LYNN MILLER
LICENSED PROFESSIONAL ENGINEER
106954

A. Lynn Miller 9/13/21
A. LYNN MILLER, P.E., P.E.# 106954

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 1070 TECHNOLOGY DR
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		BY:	SERIES 9000 HORIZONTAL ROLLER		
REVISION:			BUCKSTRIP ANCHORAGE		
DATE:			NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610		
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DATE: 09/09/21					
SCALE: NTS					
BY: JENS ROSOWSKI					
DRAWING # : HR9500-3-TDI-01					
SHEET: 4 OF 4					