

AW7660 THERMALLY BROKEN, IMPACT RESISTANT AWNING WINDOW

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 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. FOR INTEGRAL FIN FRAMES INSTALL SHIMS AT MAX. 18" O.C.
- 6) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS 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 FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 8) REFER TO CURRENT FLORIDA BUILDING CODE FOR EGRESS REQUIREMENTS.

WHERE THE PRODUCT WILL BE INSTALLED WITHIN 3,000 FEET OF A SALTWATER COASTLINE, IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R332 OF THE FBC, RESIDENTIAL.

EXAMPLES OF MULLED UNITS:

FIGURE 1:

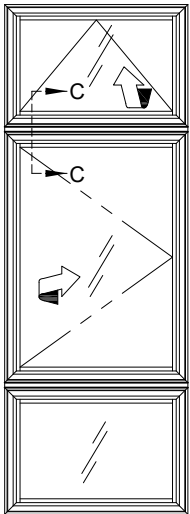
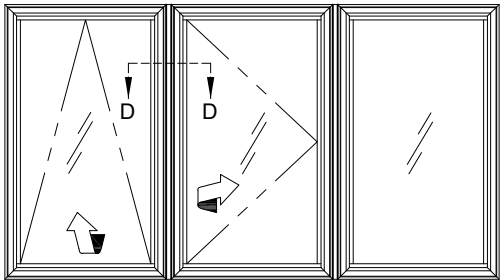
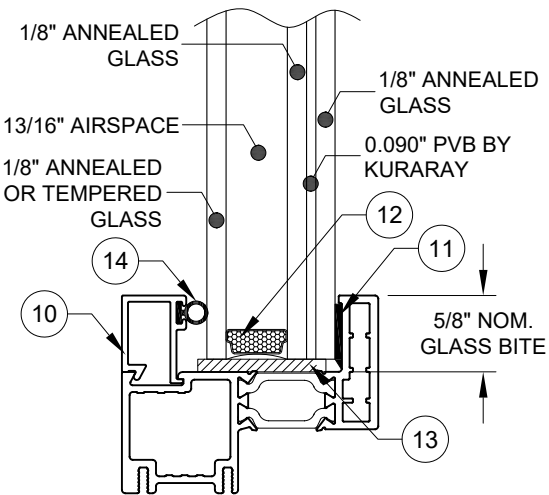


FIGURE 2:



MULLION NOTES:

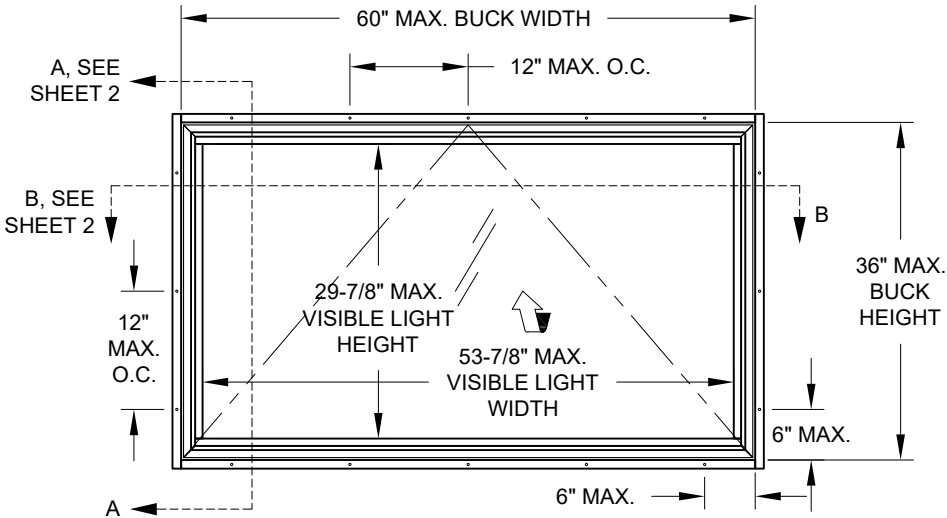
- 1) WINDOWS SHOWN IN FIGURES 1 & 2 MAY BE ANY COMBINATION OF THE 7660 AWNING, 7670 CASEMENT, 7630 PICTURE OR 7675 FIXED CASEMENT WINDOW.
- 2) SEE THE SPECIFIC APPROVAL FOR EACH WINDOW TYPE FOR INSTALLATION INSTRUCTIONS.
- 3) THE OVERALL DESIGN PRESSURE OF THE MULLED ASSEMBLY IS THE LOWEST OF ANY INDIVIDUAL WINDOW.
- 4) SEE SHEET 2 FOR C-C & D-D CROSS SECTIONS.



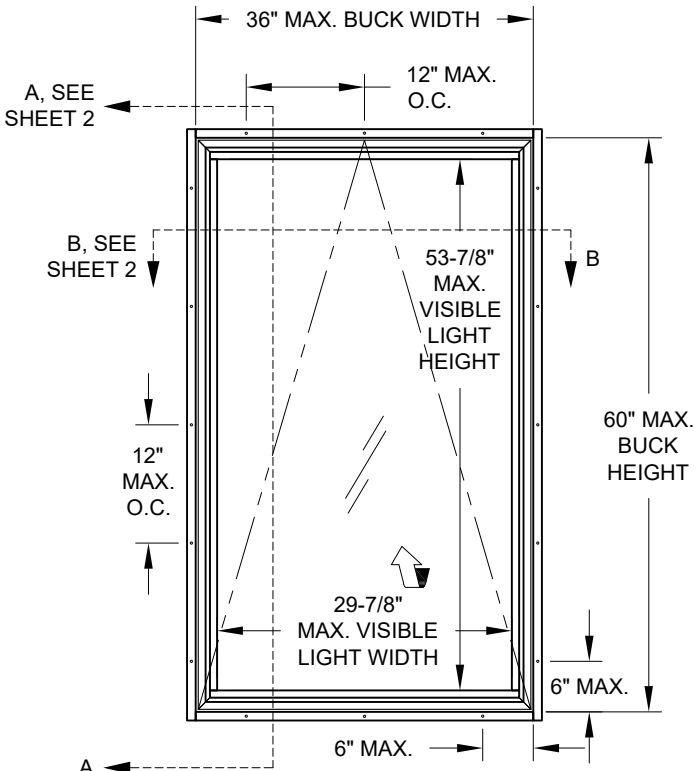
GLAZING DETAIL
1-1/4" NOM.

TABLE 1:

Window Buck Size		Design Pressure		Product Rating
Width	Height	(+) psf	(-) psf	
60"	36"	50.0	50.0	LC-PG50
36"	60"	50.0	50.0	LC-PG50



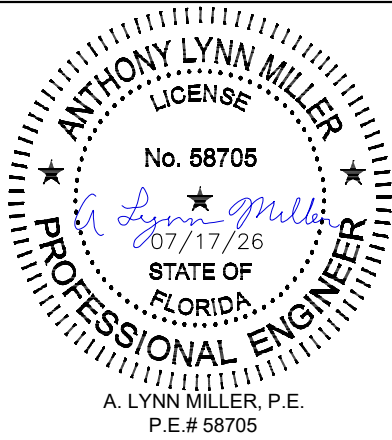
TESTED INTEGRAL FIN FRAME ELEVATION

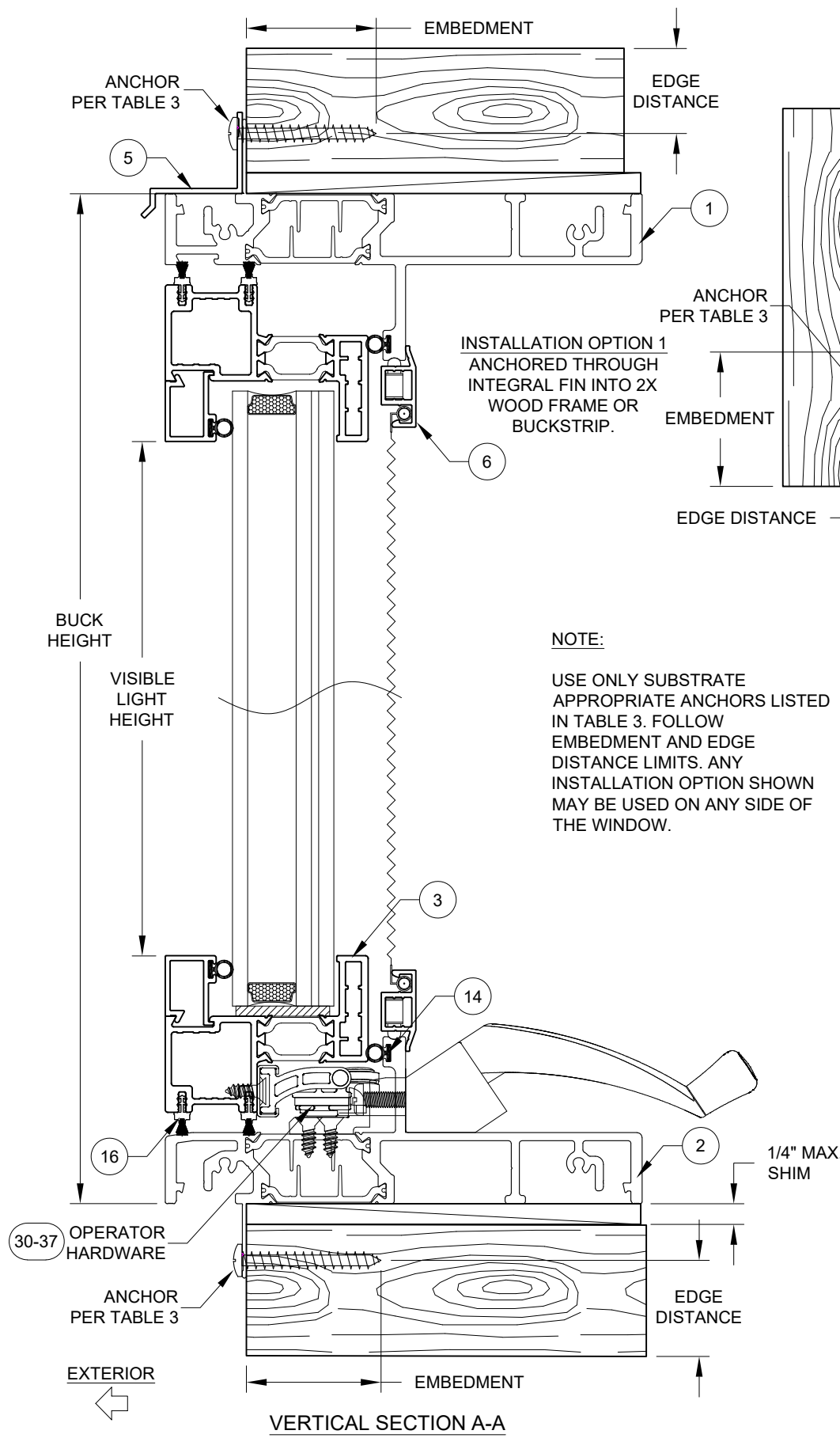


TESTED INTEGRAL FIN FRAME ELEVATION

DESIGN PRESSURE RATING
+/-50 PSF
WATER TEST PRESSURE
15% OF (+) DP
IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RESISTANT MISSILE LEVEL D, WIND ZONE 3

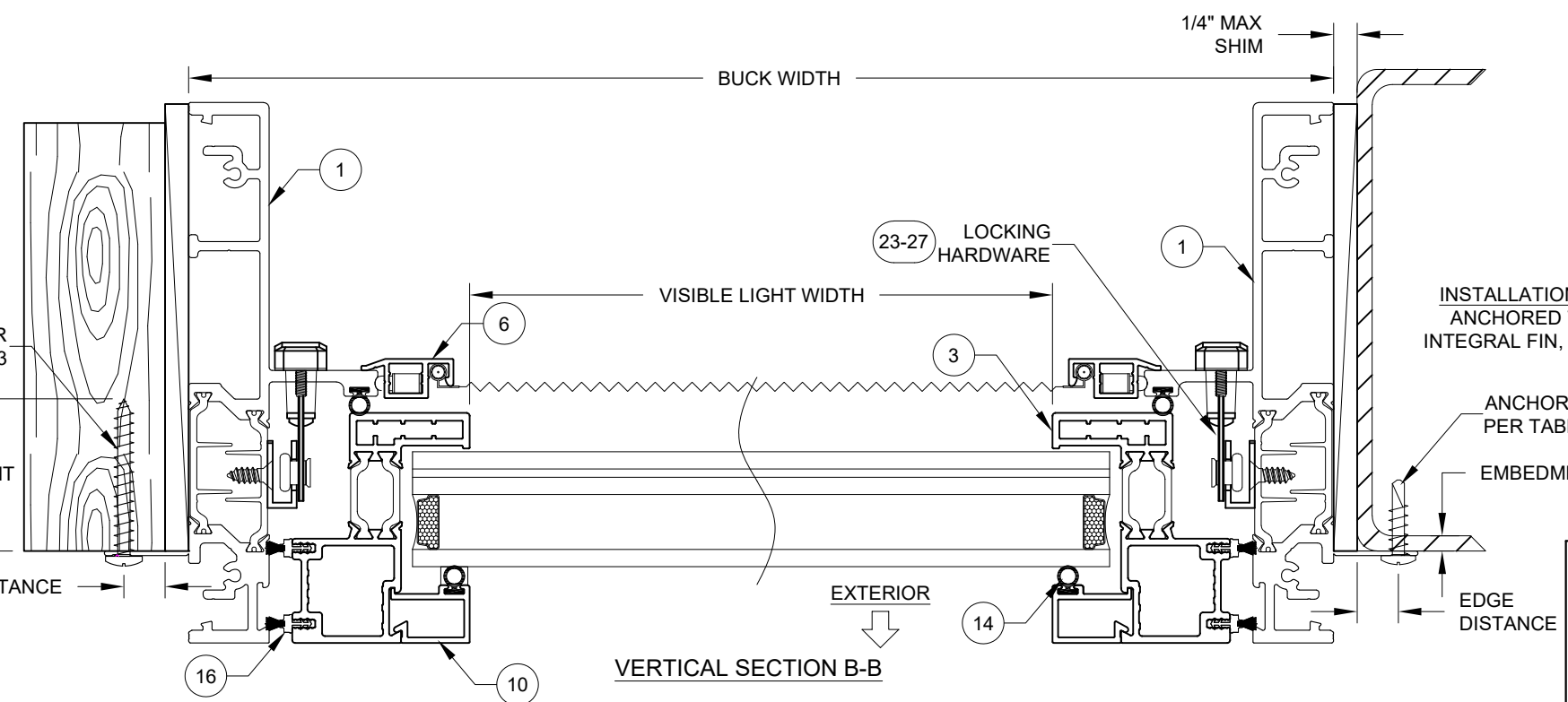
 WESTERN ARCHITECTURAL OPENINGS	PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600			REGISTRATION #29296		7/17/26	COLTON KEMPf	AW7660-LM	
	2200 E RIVERVIEW DR PHOENIX, AZ 85034 (877) 268-1300		COPYRIGHT © 2026 WWS ACQUISITION HOLDCO, LLC, LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.						
	TB AWNING WINDOW (LM)								
	ELEVATION & GENERAL NOTES								
	1 OF 3		DWG No.						
	AW7660		Sheet						
Series	Desc.		Title						



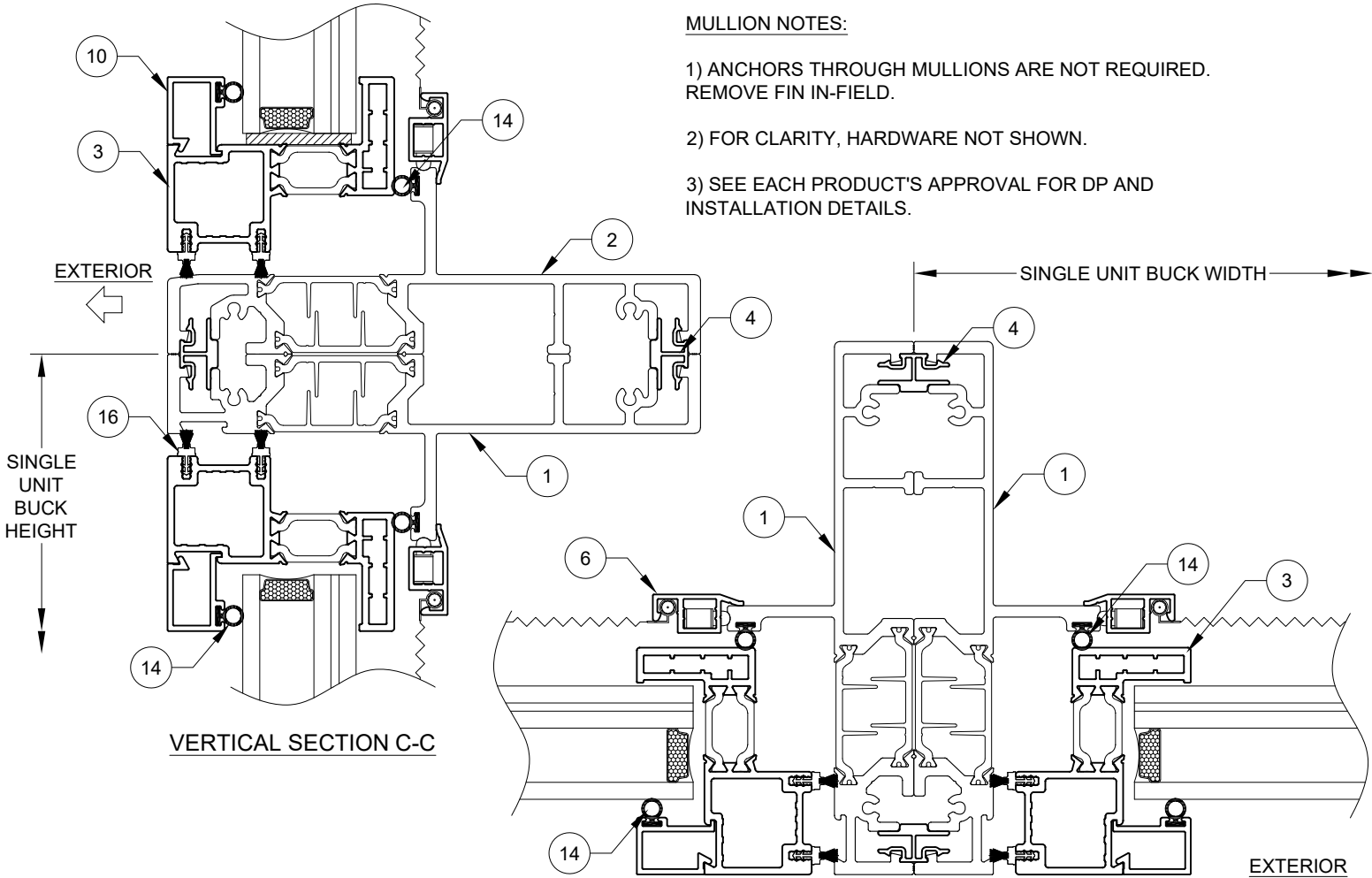


VERTICAL SECTION A-A

NOTE:
USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 3. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.



VERTICAL SECTION B-B



HORIZONTAL SECTION D-D

- MULLION NOTES:**
- 1) ANCHORS THROUGH MULLIONS ARE NOT REQUIRED. REMOVE FIN IN-FIELD.
 - 2) FOR CLARITY, HARDWARE NOT SHOWN.
 - 3) SEE EACH PRODUCT'S APPROVAL FOR DP AND INSTALLATION DETAILS.

WESTERN ARCHITECTURAL OPENINGS 2200 E RIVERVIEW DR PHOENIX, AZ 85034 (877) 268-1300		PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	
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TB AWNING WINDOW (LM)		COLTON KEMPf	
INSTALL. X-SECTIONS		AW7660-LM	
AW7660		2 OF 3	

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/17/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

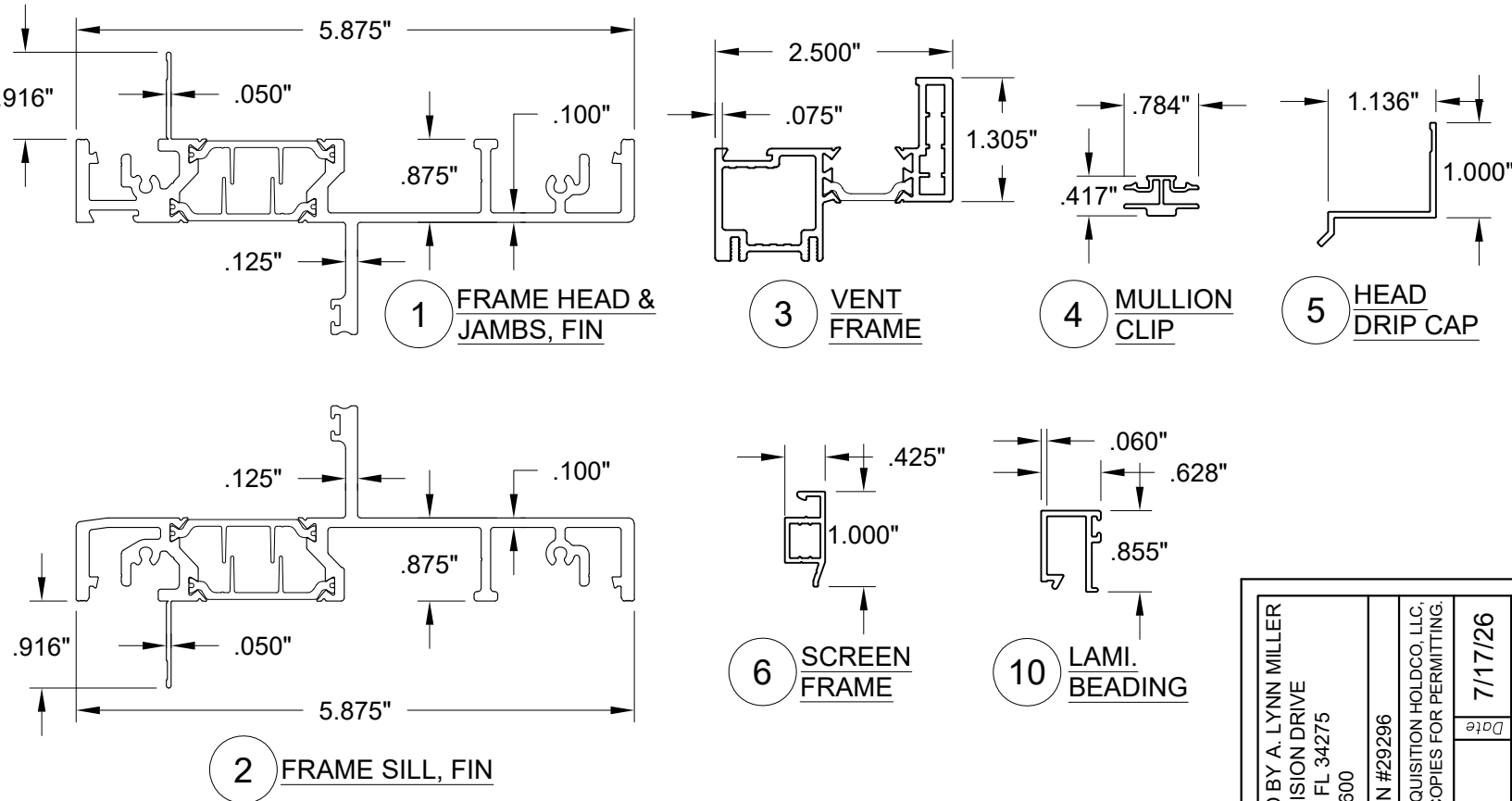
TABLE 2:

Item #	Part #	Description	Material
1	EX7645	Frame Head/Jamb, Fin	6063-T6, Ensinger Insulbar
2	EX7644	Frame Sill, Fin	6063-T6, Ensinger Insulbar
3	EX8002	Vent Frame	6063-T6, Ensinger Insulbar
4	E6666B	Mullion Clip	6063-T6
5	EX127	Head Drip Cap	6063-T6
6		Screen Frame	6063-T5/T6
7	H8034	Glazing Leg Corner Key	Steel
8	H8033	Sash Corner Key	Steel
10	E8006	Lami. Beading	6063-T5/T6
11		Dow 791/983, RGS-7700	Silicone
12		IG Spacer	
13	H2212	1/8" Glass Shim/Setting Block	PVC
14	W6793	Bulb Seal 0.255" x 0.350"	EPDM
16	W7608	Pile Weatherstrip with Fin Seal	
17	H232	1/16" Nail Fin Corner Gasket	
23	H7999B	Low Profile Lock	Steel
24	H7984	Lock Support Plate	Steel
25	H8818	Keeper	Steel
26	F5088SSS	Single Point Keeper Fastener	8A x 3/4 PHIL PAN SMS
27	F7600SS	Sash Connector Fastener	FHPH #8-32 x 5/8" Self-Threading
30	H8002	Operator	Steel
31	H7697LB	Operator Cover	Steel
32	H8001	Commerical But Hinge	Steel
33	H6703	Operator Retainer Clip	Steel
34	H8007	Operator Track	Steel
35	F5008SSS	Retainer Clip Fastener	8-18 x 3/4" PHIL FLT TEK
36	F5054SSS	4 Bar Hinge Bracket Fastener	10-24 x 3/4" PHL PAN MS
37	F5116SS	Operator Track Fastener	#8 x 5/8" PHFH SMS
50	F5011SS	Frame Assembly Fastener	#8 x 1-1/4" PHL FLT SMS

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 or #12 SMS Carbon Steel or 18-8, 316, 410 SS	Southern Pine (SG = 0.55)	1/2"	1-7/16"
	6063-T6 Al	7/16"	0.060"
	A36 Steel	5/16"	0.050"
	A653 Steel Stud Gr. 33	5/16"	0.035" (20 ga)

- 1) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.
2) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
3) ALL SCREWHEAD TYPES ARE APPLICABLE.



PREPARED BY A. LYNN MILLER
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WESTERN
ARCHITECTURAL OPENINGS

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TB AWNING WINDOW (LM)

7/17/26

By **COLTON KEMP**

Drawn

AW7660

3 OF 3

DWG

AW7660-LM

Series

Desc.

Title

Sheet

No.

By

Date

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