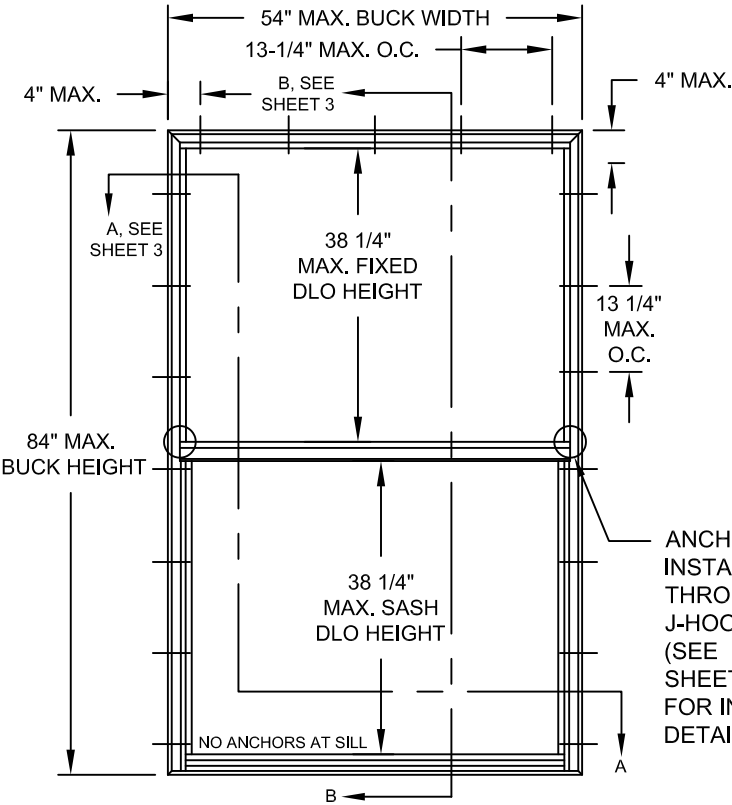
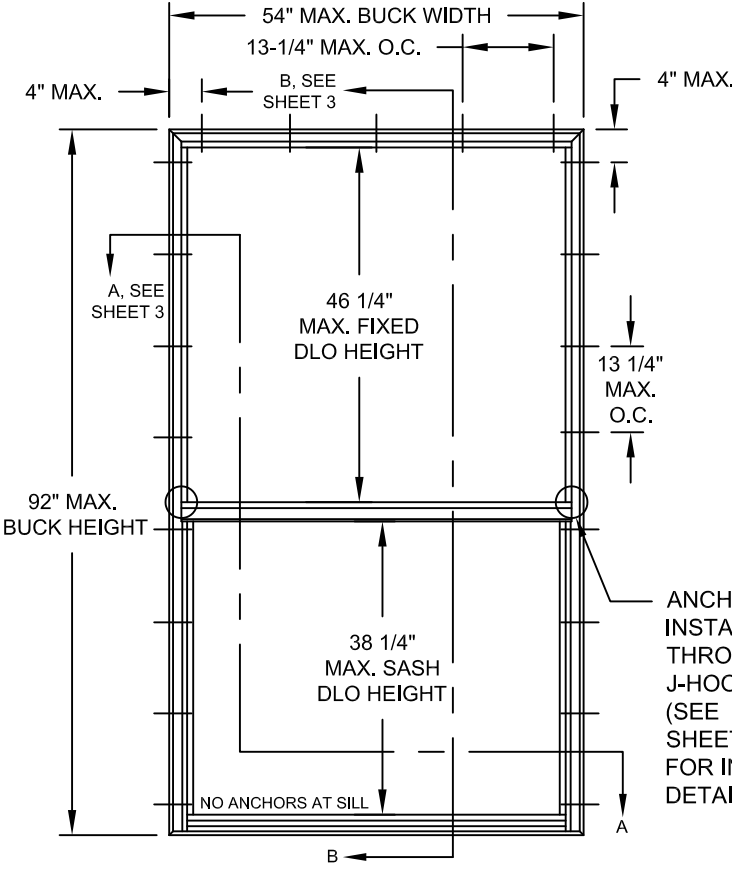


IMPACT RATING	DESIGN PRESSURE RATING
LARGE MISSILE IMPACT RESISTANT (LEVEL D)	+50/-65 PSF

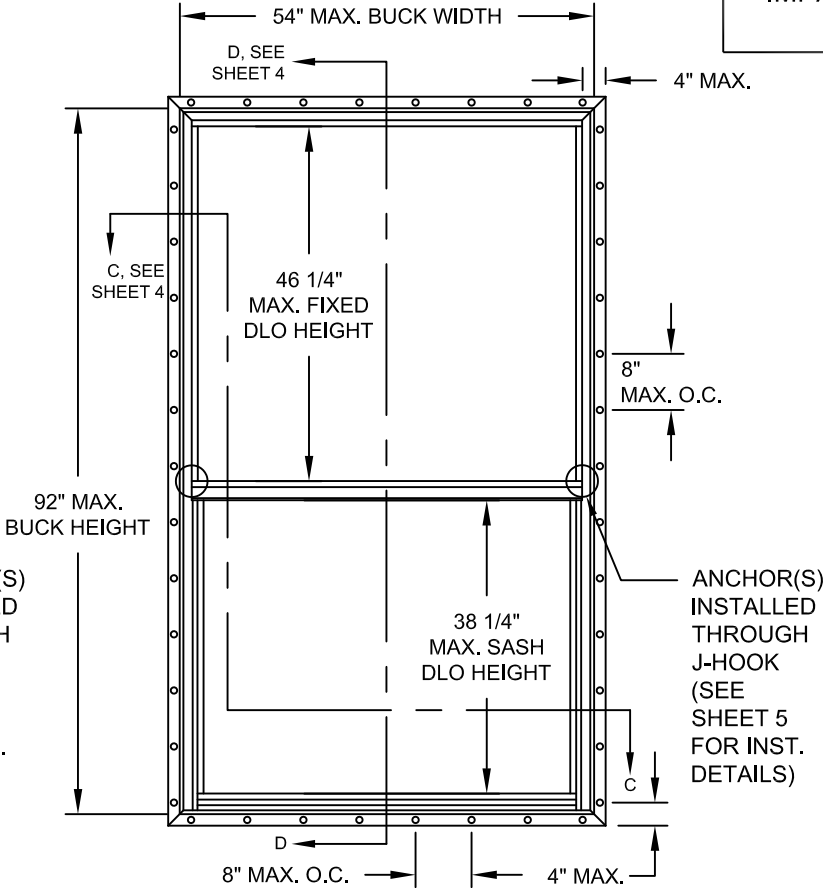
Rev.	Date	Added Equal-Lite Config.
A	11/18/24	



ELEVATION FOR TYP.
FINLESS & FLANGE FRAME
EQUAL-LITE CONFIGURATION



ELEVATION FOR TYP.
FINLESS & FLANGE FRAME
ORIEL CONFIGURATION



ELEVATION FOR TYP.
FIN FRAME
ORIEL CONFIGURATION

SERIES 1620MD VINYL SINGLE HUNG WINDOW
IMPACT RESISTANT

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1. 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) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 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 FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 7) FRAME FLANGE OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50-5/16"
(APPLIES TO ANY HEIGHT 92" OR LESS).

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650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300		VINYL SINGLE HUNG WINDOW (LM)		08/20/24			
ELEVATION & GENERAL NOTES		Drawn By		LOGAN YODER			
1620MD		1 OF 7		DWG No.		1620MDFPA-LM	
Sheet							
Series Desc.							

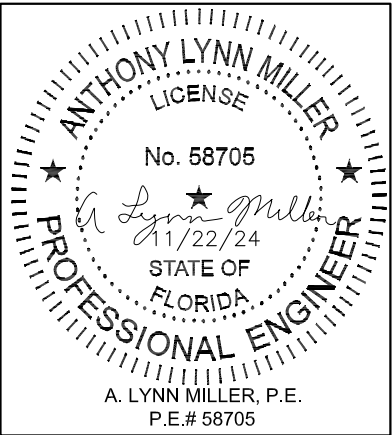


TABLE 1:

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#8 SMS (steel or 410 S.S.)	Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	1/4"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	1/4"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	1/4"	0.0451" (18 Ga.)
#10 SMS (steel or 410 S.S.)	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Steel, A36	5/16"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	5/16"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	5/16"	0.0451" (18 Ga.)
3/16" Ultracon+ (steel)	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Concrete (min. 3.00 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"

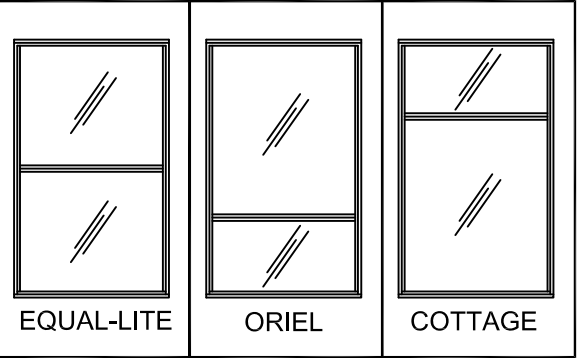
- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.
- 3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

TABLE 2:

Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .131" Ring-Shank Nail	Southern Pine (SG=0.55)	3/8"	2-7/16"
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Panhead or Flathead	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Steel, A36	5/16"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	5/16"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	7/16"	0.0566" (16 Ga.)

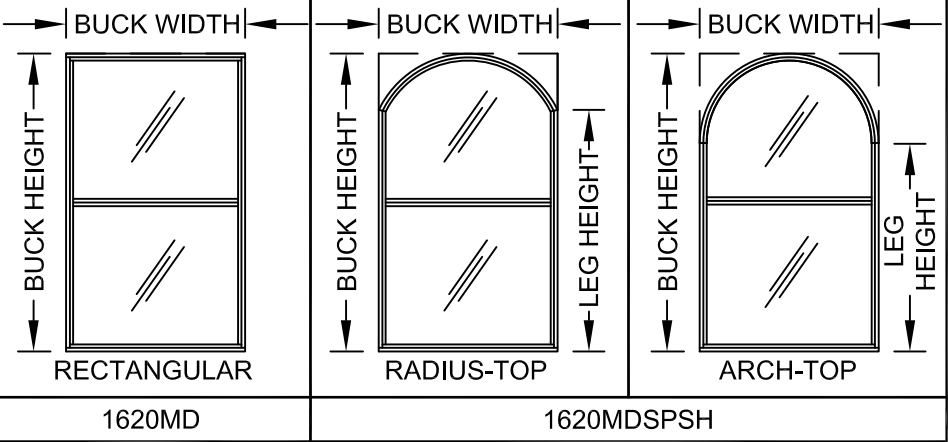
- 1) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

FIGURE A: FRAME CONFIGURATIONS

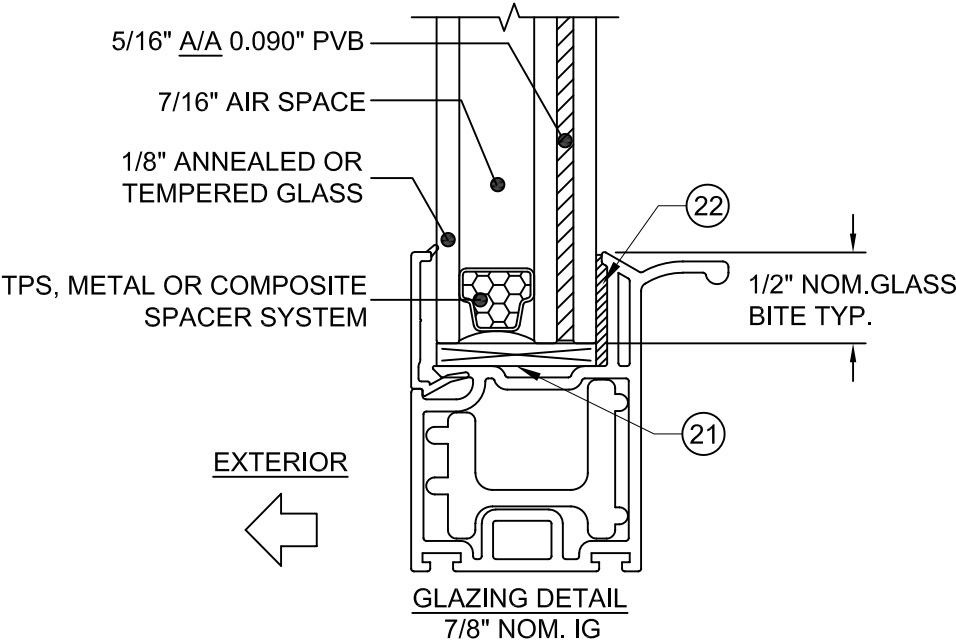


ALL CONFIGURATIONS SHOWN IN FIGURE A ARE APPROVED PROVIDED THAT THE MAX. OVERALL FRAME AND DLO DIMENSIONS FROM SHEET 1 ARE NOT EXCEEDED.

FIGURE B: FRAME SHAPES

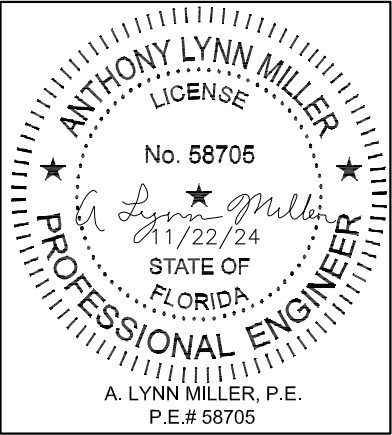


WINDOW SHAPES AS ABOVE OR SIMILAR ARE APPROVED. SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE FROM THE SIZES SHOWN ON SHEET 1.



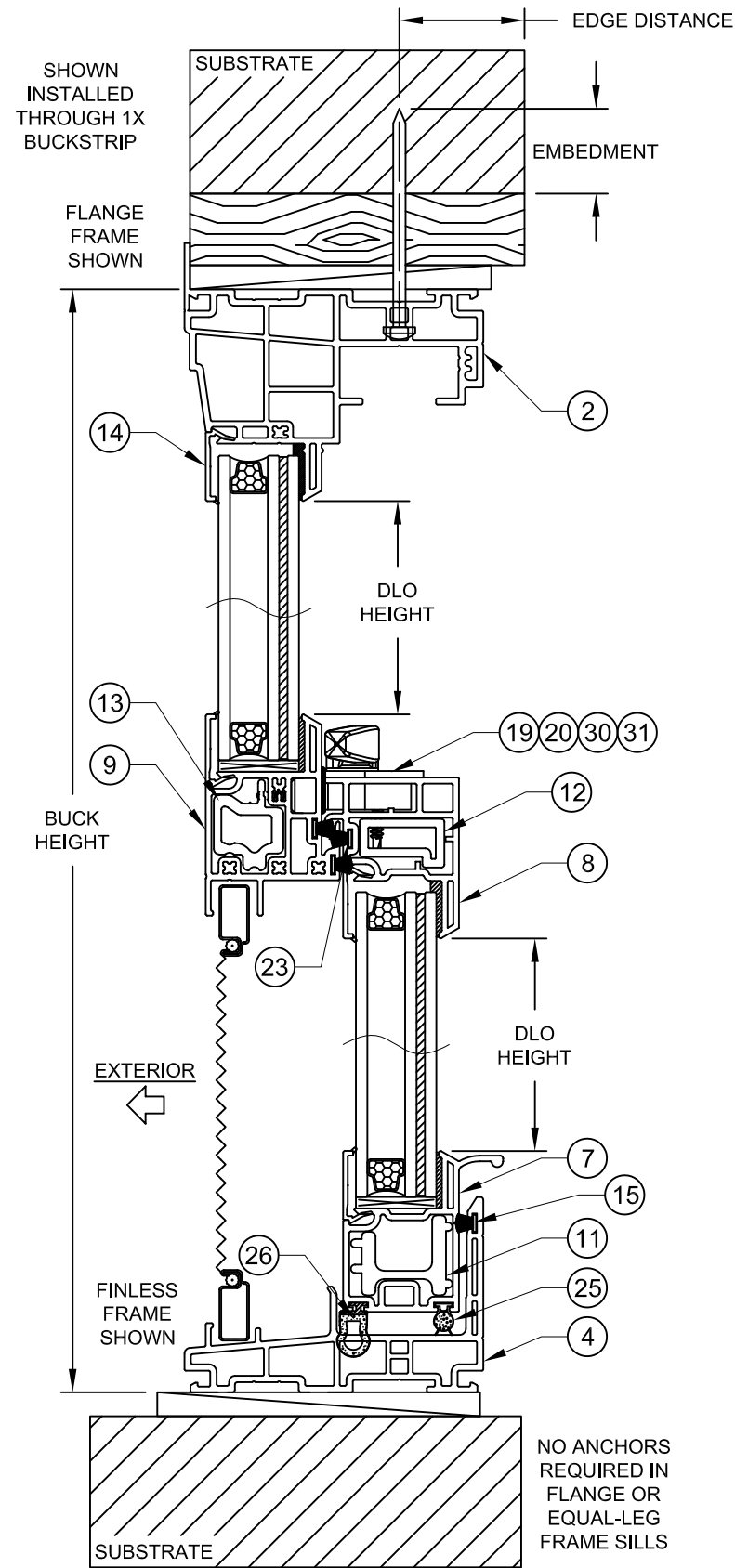
NOTE: FOR INSTALLATIONS ABOVE 30 FEET IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.

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MI WINDOWS and DOORS	650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300	VINYL SINGLE HUNG WINDOW (LM) Title	ANCHOR AND GLAZING DETAILS Desc.	2 OF 7 Sheet
1620MD	1620MD	1620MD	1620MD	1620MD



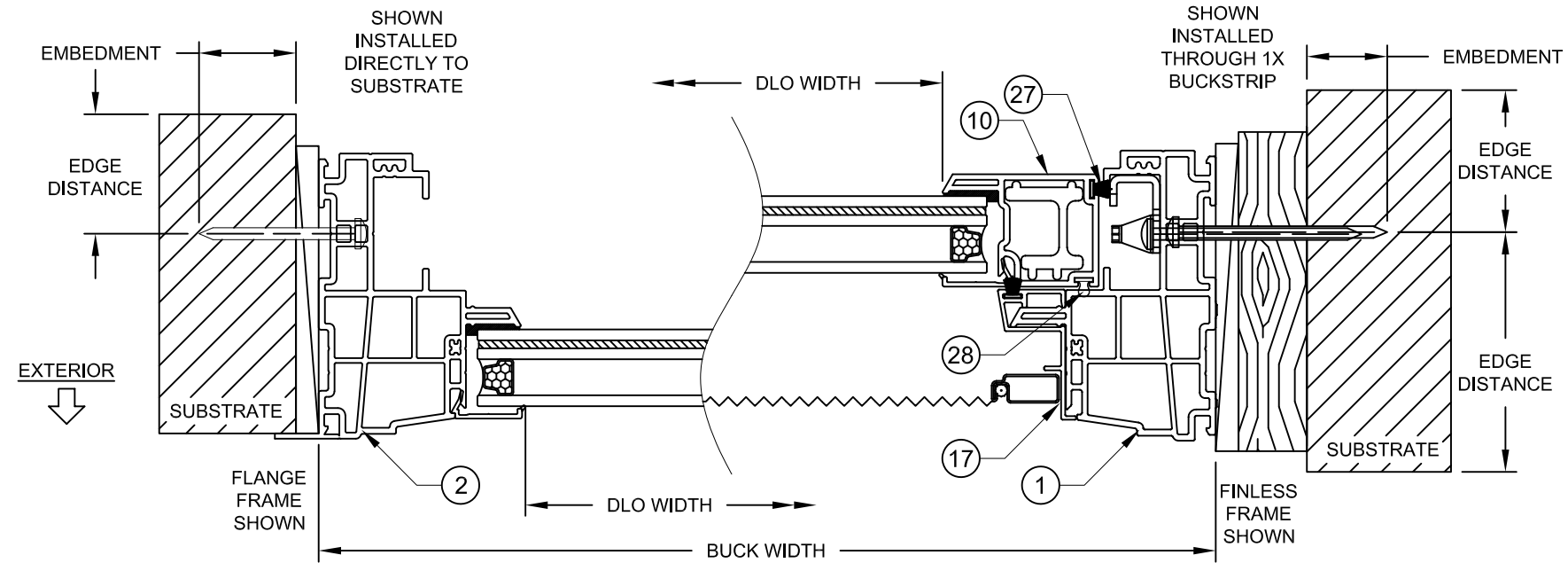
Rev.	11/18/24	A
Date	11/18/24	A
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REVISED TABLE 1 AND 2

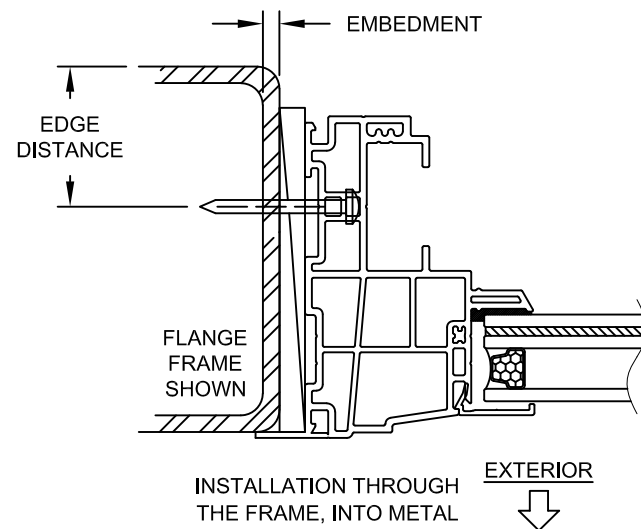


VERTICAL SECTION B-B

NO ANCHORS
REQUIRED IN
FLANGE OR
EQUAL-LEG
FRAME SILLS



HORIZONTAL SECTION A-A



INSTALLATION NOTES:

- 1) REFER TO SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) REFER TO TABLE 1 ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAXIMUM SHIM THICKNESS TO BE 1/4"
- 4) THE FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.

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3 OF 7 Sheet		1620MD No.		1620MD Title		1620MD Title
1620MD No.		1620MD Title		1620MD Title		1620MD Title

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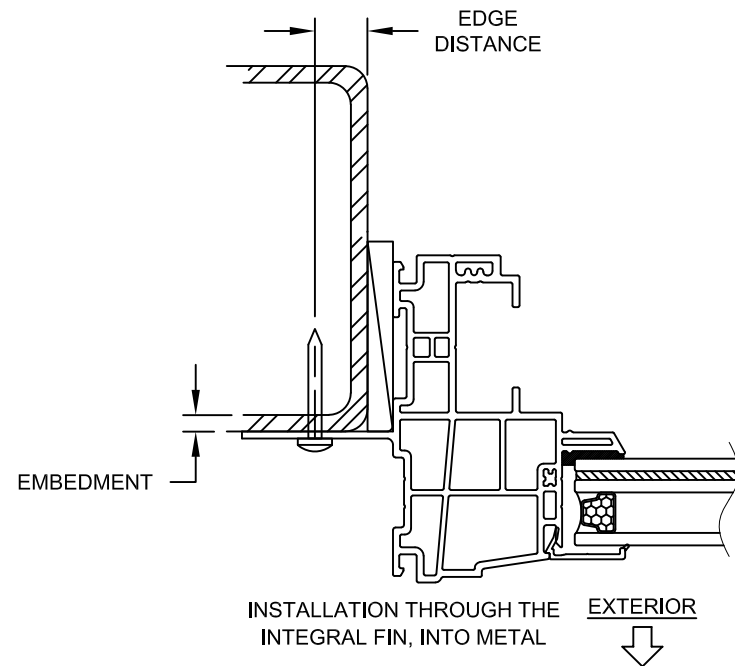
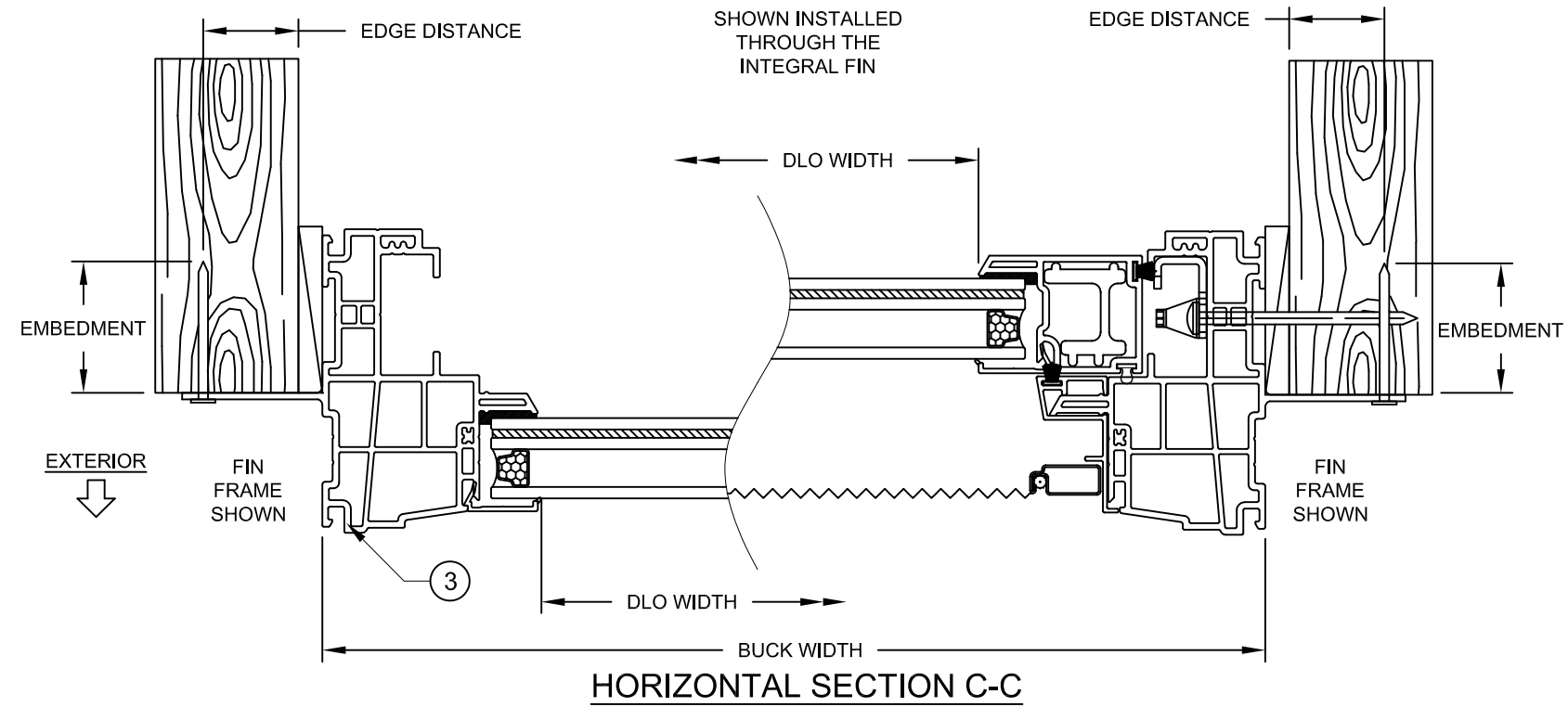
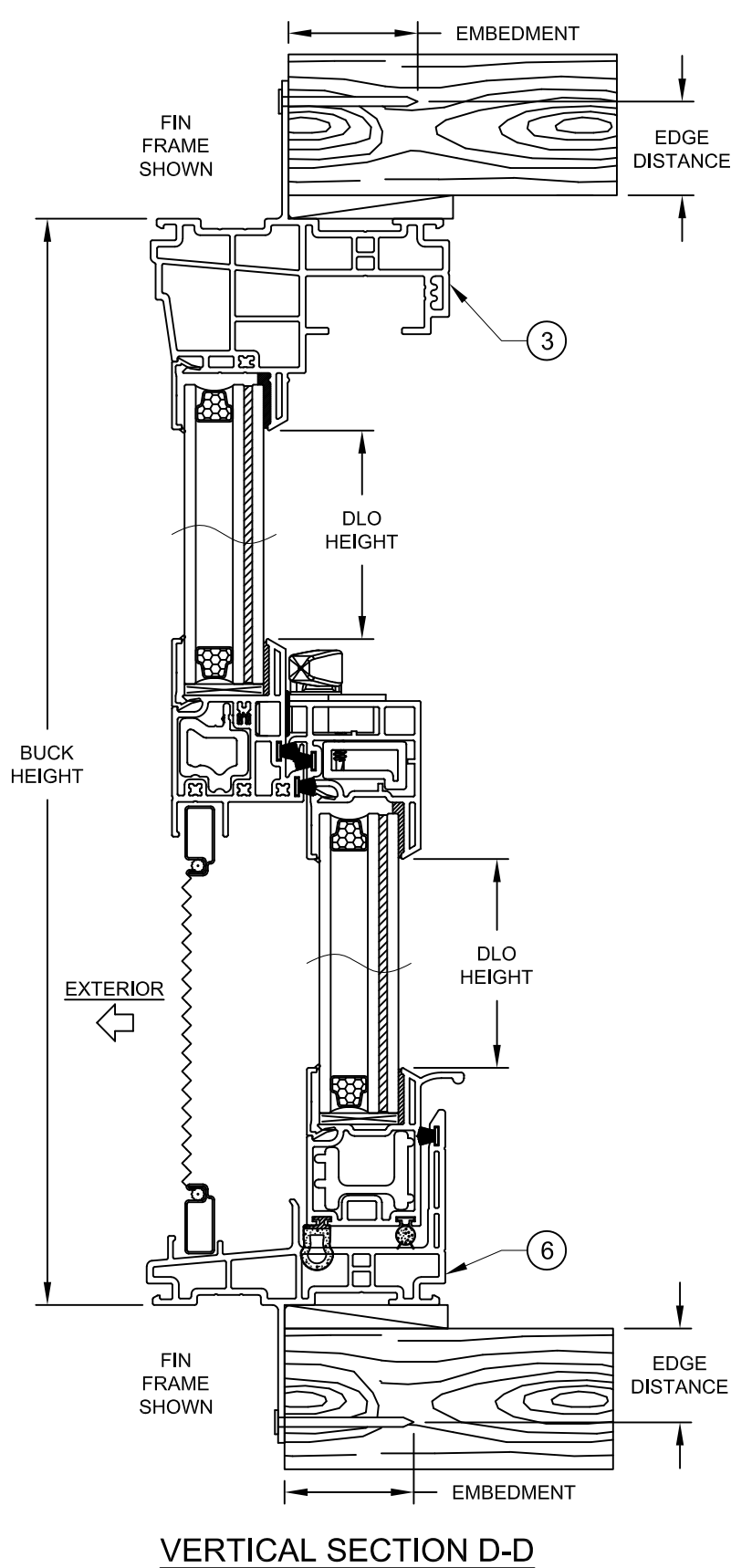
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11/22/24

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PROFESSIONAL ENGINEER

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P.E.# 58705

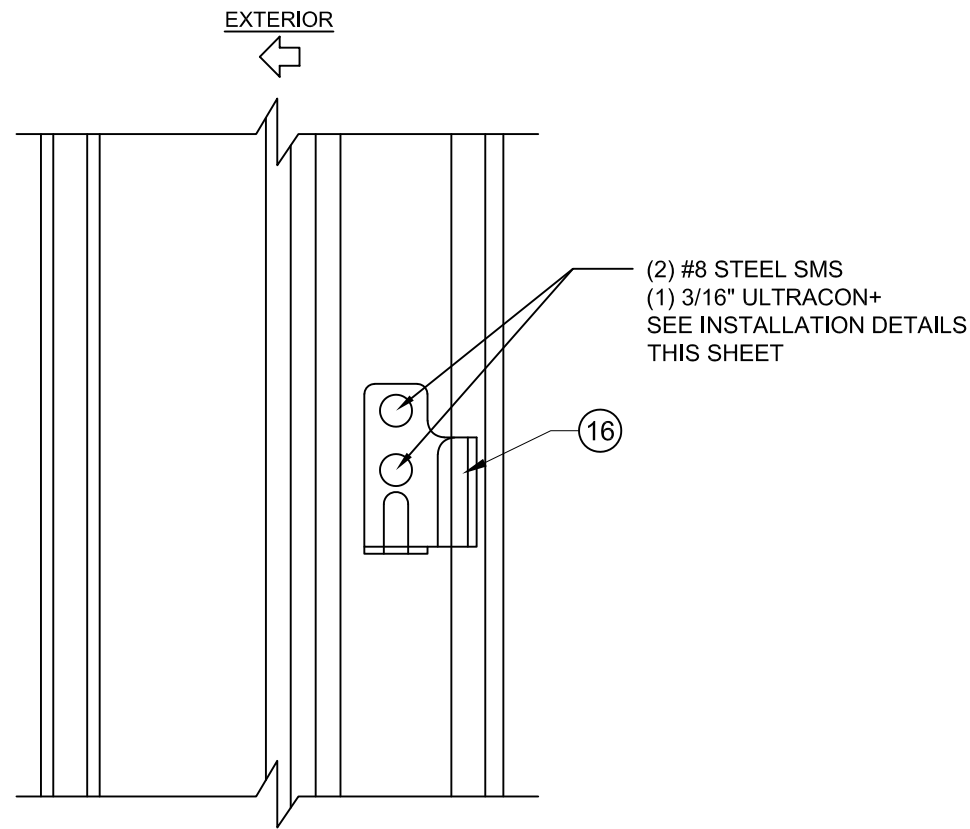


INSTALLATION NOTES:

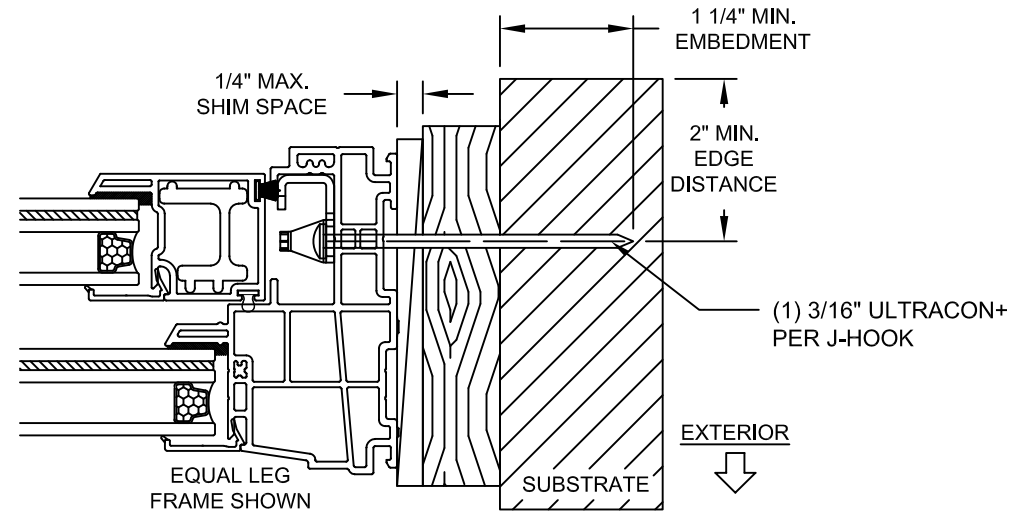
- 1) REFER TO SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) REFER TO TABLE 2 ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAXIMUM SHIM THICKNESS TO BE 1/4"
- 4) THE FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.
- 5) MAXIMUM SHIM SPACING TO BE 18" WHEN INSTALLING THROUGH THE INTEGRAL FIN

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NAIL FIN INSTALL. DETAILS		LOGAN YODER		1620MD	
1620MD		4 OF 7		1620MDFPA-LM	

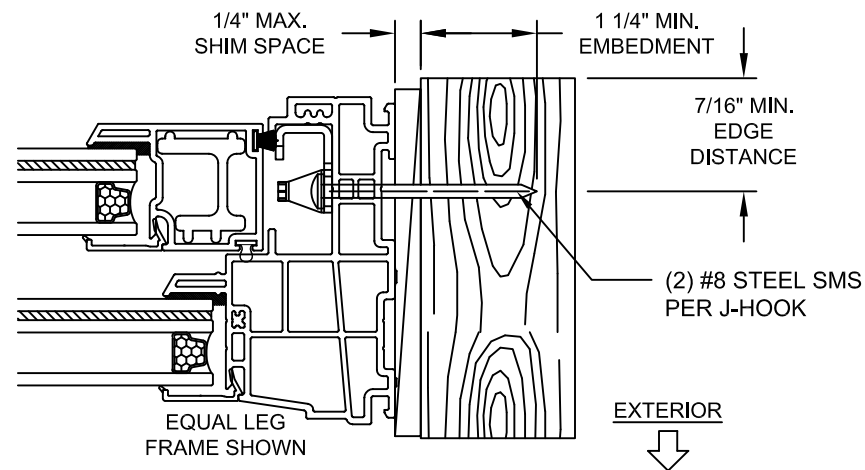
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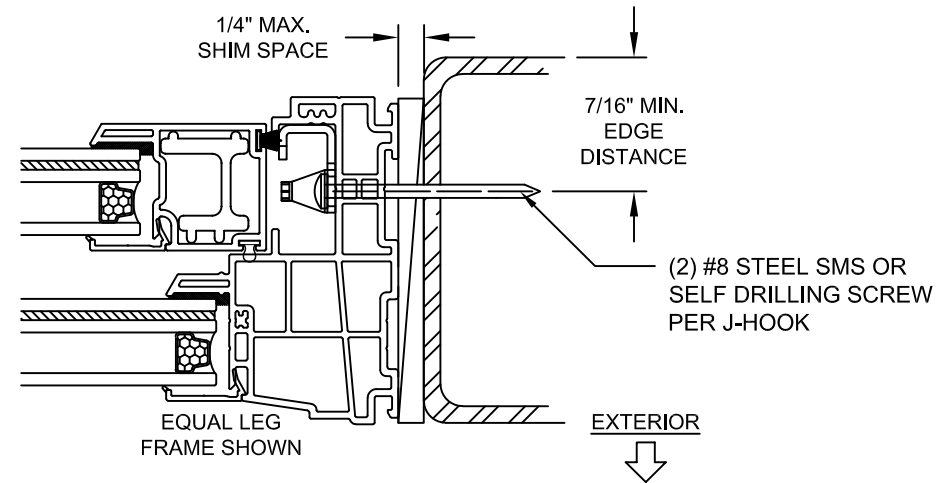
J-HOOK TO JAMB CONNECTION DETAIL



J-HOOK INSTALLATION DETAIL
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAILS ON SHEET 3



J-HOOK INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



J-HOOK INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

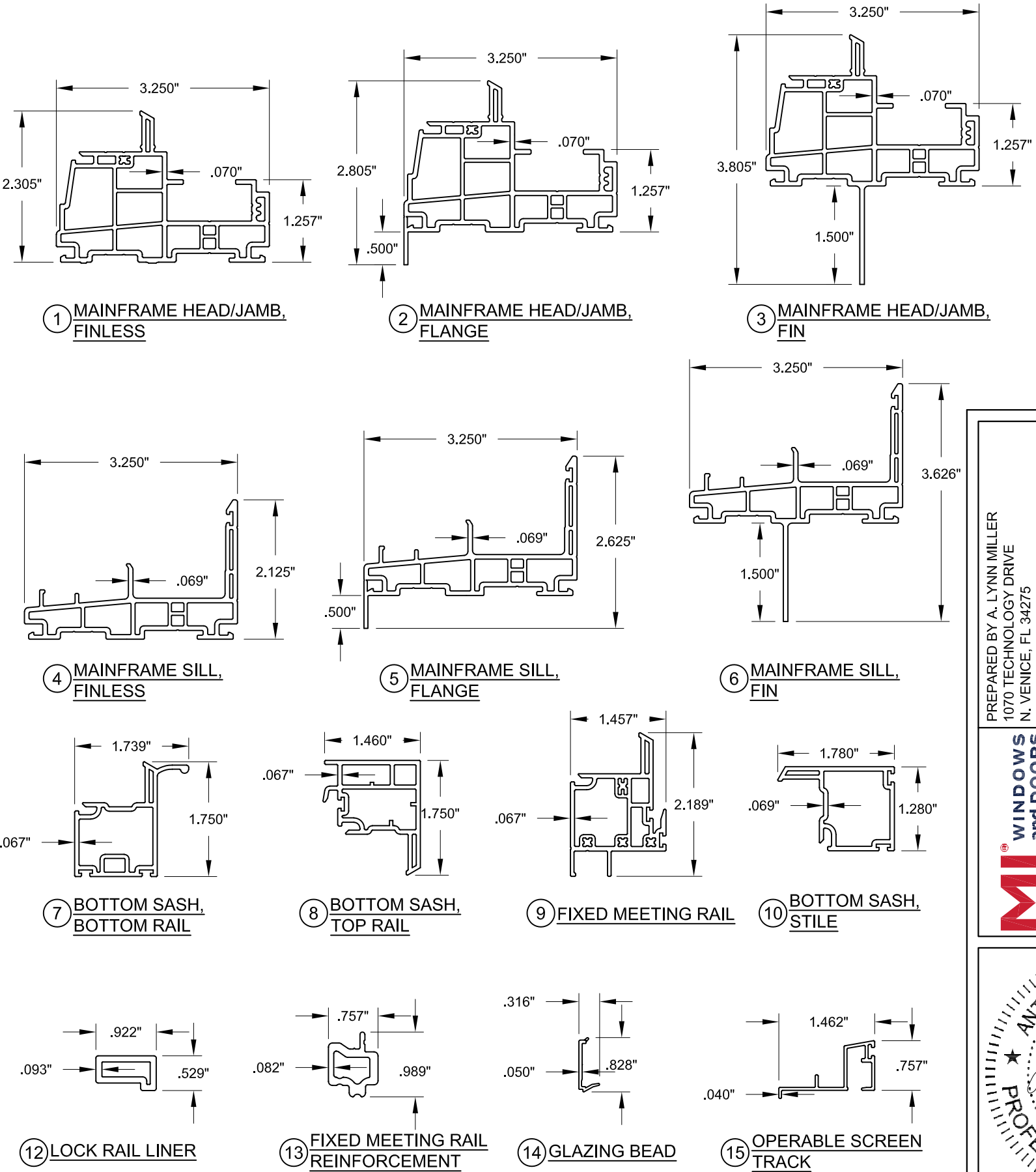
NOTE: ANCHOR LENGTH TO BE SO THAT A MINIMUM OF
3 THREADS EXTEND PAST THE METAL SUBSTRATE

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MI WINDOWS and DOORS		650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300		VINYL SINGLE HUNG WINDOW (LM) Title		1620MD Series
J-HOOK INSTALLATION DETAILS		5 OF 7 Sheet		1620MD Desc.		1620MD Title

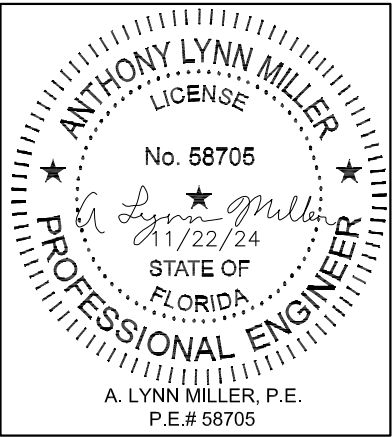
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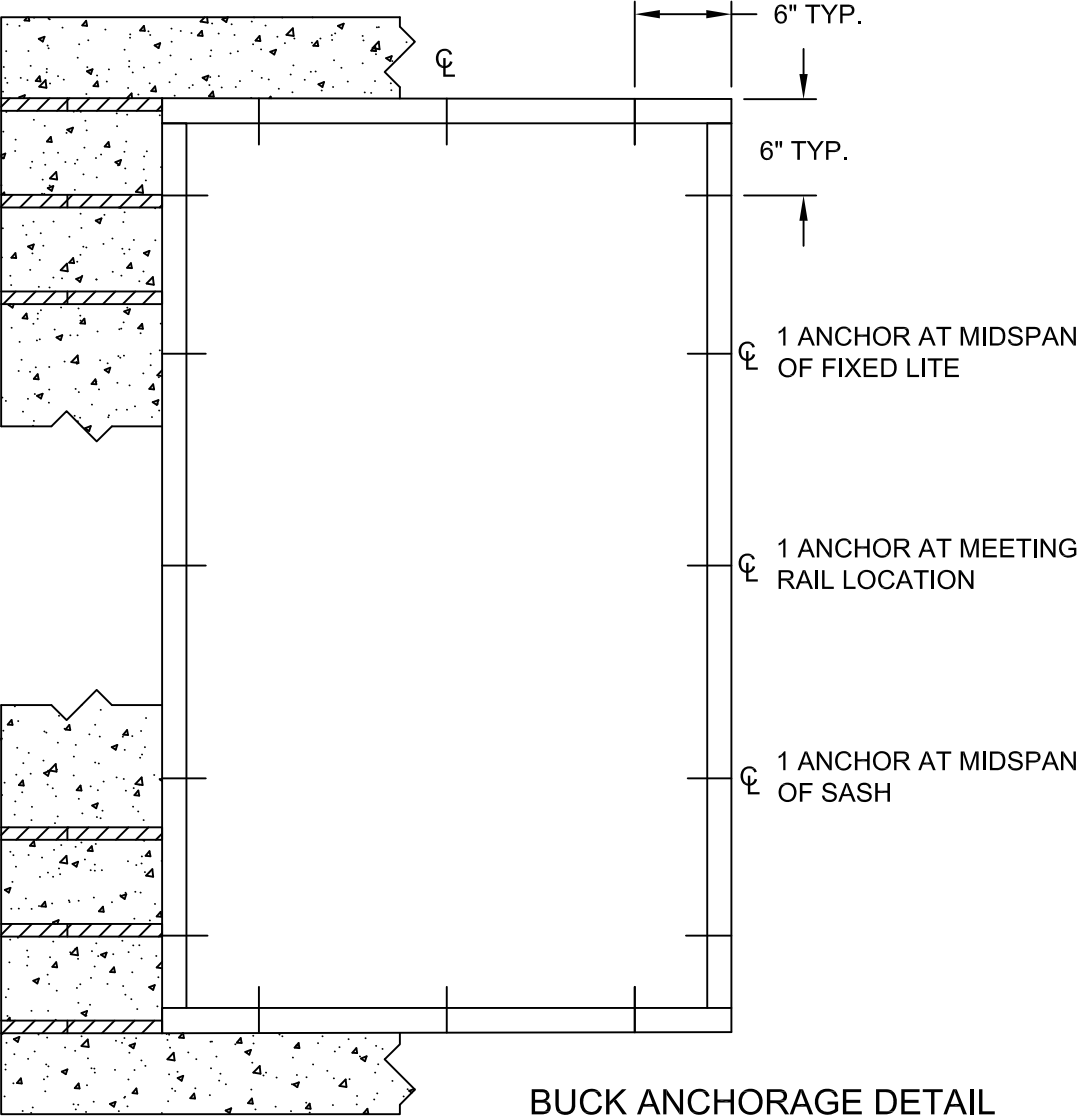
TABLE 3:

#	Part #	Description	Material
1	V010080	Mainframe Head/Jamb, Finless	PVC
2	V010100	Mainframe Head/Jamb, Flange	PVC
3	V010070	Mainframe Head/Jamb, Fin	PVC
4	V010130	Mainframe Sill, Finless	PVC
5	V010150	Mainframe Sill, Flange	PVC
6	V010120	Mainframe Sill, Fin	PVC
7	V067207	Bottom Sash, Bottom Rail	PVC
8	V067500	Bottom Sash, Top Rail	PVC
9	V101600	Fixed Meeting Rail	PVC
10	V067000	Bottom Sash, Stile	PVC
11	M2266000	Bottom Sash, Lift Rail Reinforcement	6063-T5
12	M2115000	Lock Rail Liner	6063-T5
13	M2343000	Fixed Meeting Rail Aluminum Reinforcement	6063-T5
14	V108300	Glazing Bead	PVC
15		Frame Sill .187"x.240" Weatherstrip	
	HD006130	Left J-Hook	Aluminum
	HD006140	Right J-Hook	Aluminum
	M234100	Operable Screen Track	Aluminum
	FS000270	Fixed Meeting Rail Reinforcement Attachment Screws #8 x 2 1/2" Vinyl HLD Truss	410 S.S.
	K000200	Adjustable Keeper	Zinc
	FS00350	Keeper Screw, #6, 8-18 x 7/8" PFH	Zinc
	MS100050	Setting Block	EPDM
		Pecora 896 or RGS 7700 Backbedding	Silicone
		Sash Top Rail .187"x.240" Weatherstrip	
	FS005750	Sash Lift Rail Reinforcement Screw #8-18 x 1" PFH	
	MS20002	Bottom Sash Bottom Rail Interior Bulb Seal .187"x.35"	
	MS30000	Bottom Sash Bottom Rail Exterior Offset Bulb Seal .187"x.5"	
		Bottom Sash Stile Interior Weatherstrip .187"x.240"	
	6Q300	Bottom Sash Stile Exterior Bulb Seal .190"x.375"	
	FS005750	Sash Stile Reinforcement Screw #8 x 1" PFH	
	LL00074	Left Cam Lock	Zinc
	LR00074	Right Cam Lock	Zinc
	FS00350	Cam Lock Screw, #8 x 7/8" PFH	Zinc
	TL00003	Tilt-Latch Assembly	
	FS00350	Tilt-Latch Screw, #8 x 7/8"	Zinc
	HD100046	Pivot Bar, Locking Head	Zinc
	FS000460	Pivot Bar Screw, #6A x 3/4" PPH Truss Head	SS



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1620MD	Sheet	1620MD	6 OF 7	1620MD





BUCK ANCHORAGE DETAIL

TABLE 3

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
3/16" Ultracon+ (steel)	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 3.0 ksi)	2-1/2"	1-3/8"
1/4" Ultracon+ (steel)	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
	Concrete (min. 3.0 ksi)	1"	1-3/8"
1/4" Crete-Flex (410 S.S)	UngROUTED CMU, (ASTM C-90)	1-3/4"	1-1/4"
	Concrete (min. 3.35 ksi)	1-3/4"	1-3/8"
1/4" Aggre-Gator (18-8 S.S)	UngROUTED CMU, (ASTM C-90)	2"	1-1/4"
	Concrete (min. 2.22 ksi)	1-1/2"	1-3/8"

- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

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650 WEST MARKET STREET
GRATZ, PA 17030
(717) 365-3300

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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VINYL SINGLE HUNG WINDOW (LM)

BUCK INSTALLATION DETAILS

1620MD

By
LOGAN YODER

DWG
7 OF 7

Sheet

Date
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1620MDFPA-LM

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ADDED BUCK INSTALLATION

A