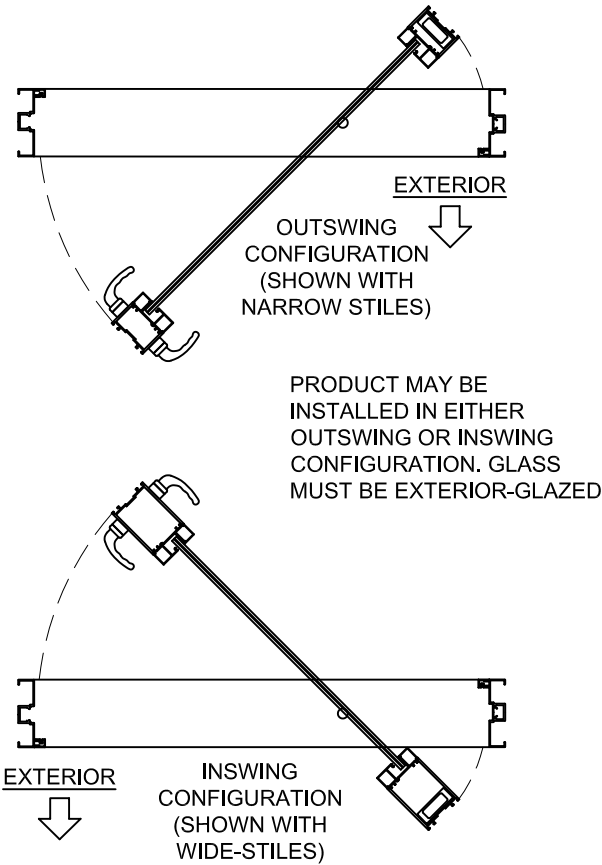


SERIES 9998A NON-IMPACT RESISTANT, OUTSWING & INSWING PIVOT DOOR WITH SIDELITE, TRANSOM & PICTURE WINDOW, FL

- 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 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 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 DOOR OR PICTURE WINDOW/TRANSOM/SIDELITE.
- 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) THE DOOR IS NOT RATED FOR WATER INFILTRATION RESISTANCE, SEE SHEETS 2 & 3. THE PICTURE WINDOW/TRANSOM/SIDELITE WAS FULLY TESTED FOR WATER INFILTRATION, SEE SHEETS 4 & 7.



FLORIDA PRODUCT APPROVAL #29783

IMPACT RATING
NOT RATED FOR IMPACT RESISTANCE

DESIGN PRESSURE RATING
SEE TABLES ON SHEETS 5-7
WATER INFILTRATION RATING
SEE NOTE 7, THIS SHEET

TABLE 1:

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
A	#12 Steel SMS (Gr. 5) or 18-8 SS SMS	All	Southern Pine (SG = 0.55)	9/16"	1"	1-3/8"
			6063-T5 Aluminum	3/8"	1"	0.071"
			A36 Steel	3/8"	1"	.050"
			Steel Stud, Gr. 33	3/8"	1"	0.045" (18 Ga)
	1/4" DeWalt UltraCon+	All	Concrete (min. 3.0 ksi)	1-5/16"	4"	1-3/8"
			Southern Pine (SG = 0.55)	1"	1"	1-3/8"
	1/4" 410 SS Elco CreteFlex	All	Concrete (min. 3.35 ksi)	1"	4"	1-3/4"
			Southern Pine (SG = 0.55)	1"	1"	1-3/8"
B	1/4" DeWalt UltraCon+	Head/Sill	Concrete (min. 3.0 ksi)	1-5/16"	4"	1-3/8"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	1"	3"	1-1/4"
C	1/4" DeWalt UltraCon+	All	Concrete (min. 3.0 ksi)	1-7/8"	4"	1-3/8"
	1/4" 410 SS Elco CreteFlex	All	Concrete (min. 3.35 ksi)	1-3/4"	4"	1-3/4"
D	1/4" DeWalt UltraCon+	Head/Sill	Concrete (min. 3.0 ksi)	1-7/8"	4"	1-3/8"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	6"	1-1/4"
	1/4" 410 SS Elco CreteFlex	Head/Sill	Concrete (min. 3.35 ksi)	1-3/4"	4"	1-3/4"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	1-3/4"	6"	1-1/4"

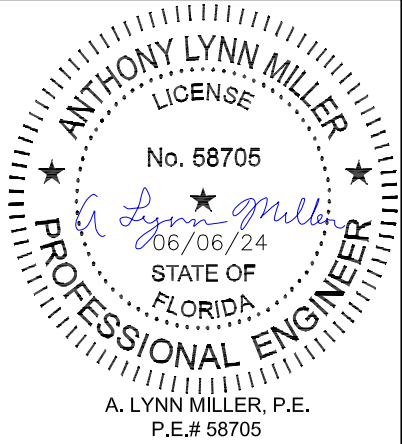
- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) FLATHEAD ANCHORS REQUIRED AT DOOR SILL. OTHER LOCATIONS MAY USE ANY HEAD TYPE.
- 3) MIN. #12 X 1" SMS TO BE USED FOR ALL MULLION APPLICATIONS.
- 4) FOR CASES WHERE SUBSTRATES VARY PER FRAME MEMBERS, USE THE ANCHOR GROUP WITH THE GREATEST QUANTITY OF ANCHORS FOR ALL SIDES.

DIRECTIONS:

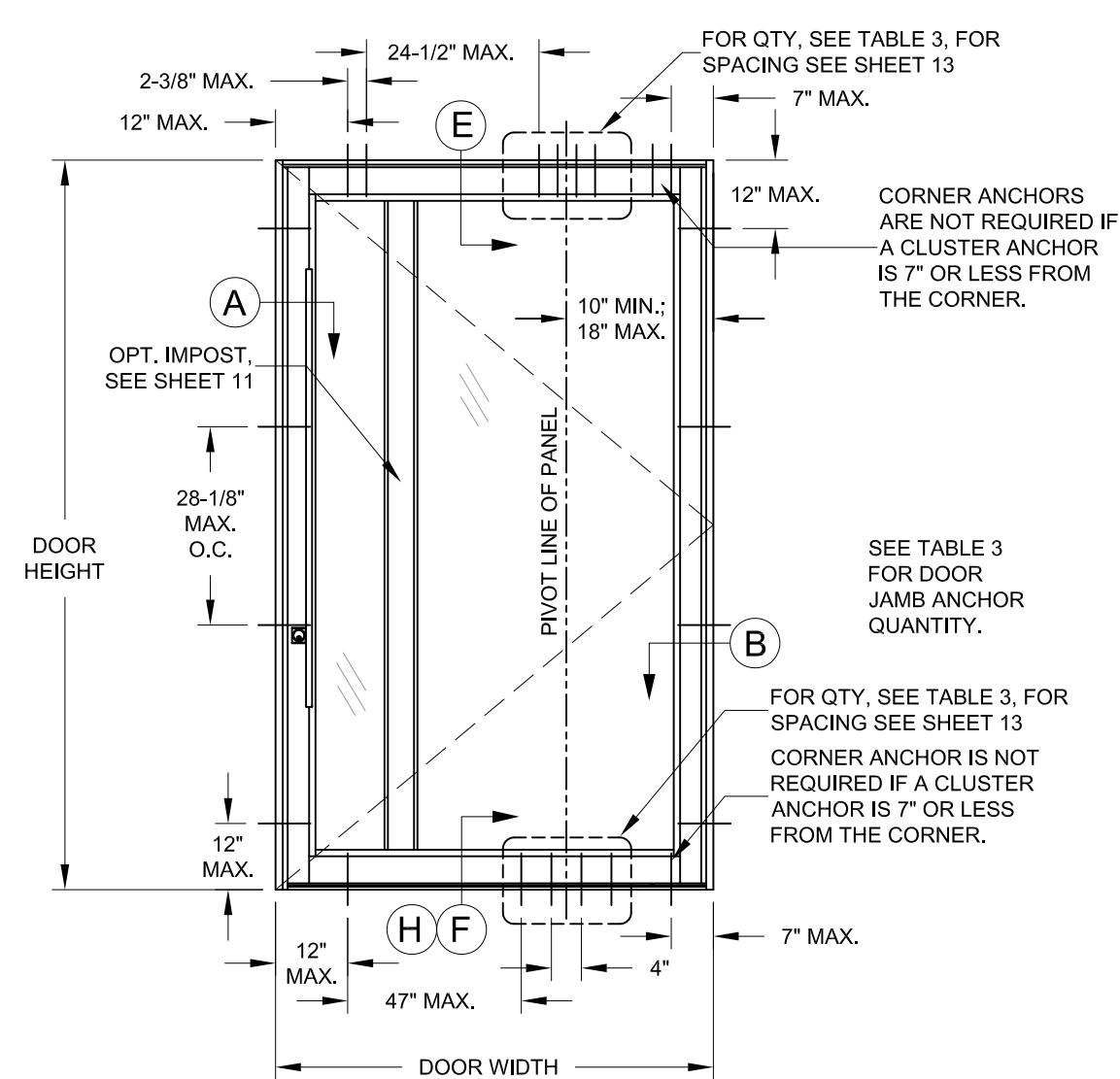
- 1) YOU MUST DETERMINE THE DESIGN PRESSURE FROM EACH INDIVIDUAL PRODUCT IN YOUR CONFIGURATION. YOUR CONFIGURATION MAY CONTAIN ANY COMBINATION OF DOOR, SIDELITE, TRANSOM, HORIZONTAL MULLION AND/OR VERTICAL MULLION, (SEE SHEETS 2-5 FOR EXAMPLES).
- 2) FROM THE DP TABLES, SHEETS 5-7, FIND THE LOWEST APPLICABLE DESIGN PRESSURE FOR ALL OF THE COMPONENTS IN YOUR SYSTEM. THIS DESIGN PRESSURE IS TO BE USED FOR THE ENTIRE ASSEMBLED AND INSTALLED SYSTEM AND MUST BE GREATER THAN THE OPENING'S DP REQUIREMENTS.
- 3) USE ANCHOR QUANTITY TABLES ALONG WITH THE ELEVATIONS ON SHEETS 2-4 TO DETERMINE YOUR ANCHOR REQUIREMENTS.
- 4) INSTALL AS PER THE APPLICABLE INSTRUCTIONS IN THIS DRAWING PACKET.

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432	ALUMINUM PIVOT DOOR, OS & IS (NI)	By	ELEVATION & GENERAL NOTES	1 OF 14
PV9998A	Series	Title	Desc.	Sheet



Rev. #	06/06/24	Date
Rev.	MOVED GLAZING DETAILS; REFORMATTED & RENUMBERED TABLES & SHEETS - JR	

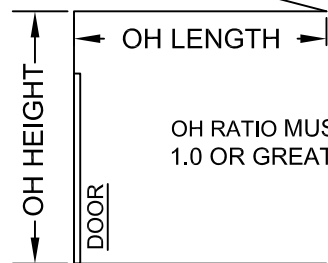


SINGLE DOOR

RIGHT-SIDE PIVOT SHOWN, MAY BE REVERSED FOR LEFT-SIDE PIVOT.

NO-THRESHOLD APPLICATION:
FOR APPLICATIONS WITHOUT A DOOR THRESHOLD, OMIT ALL SILL ANCHORAGE SHOWN. ALSO, SEE DETAIL H, SHEET 10 FOR INSTALLATION SPECIFICATIONS.

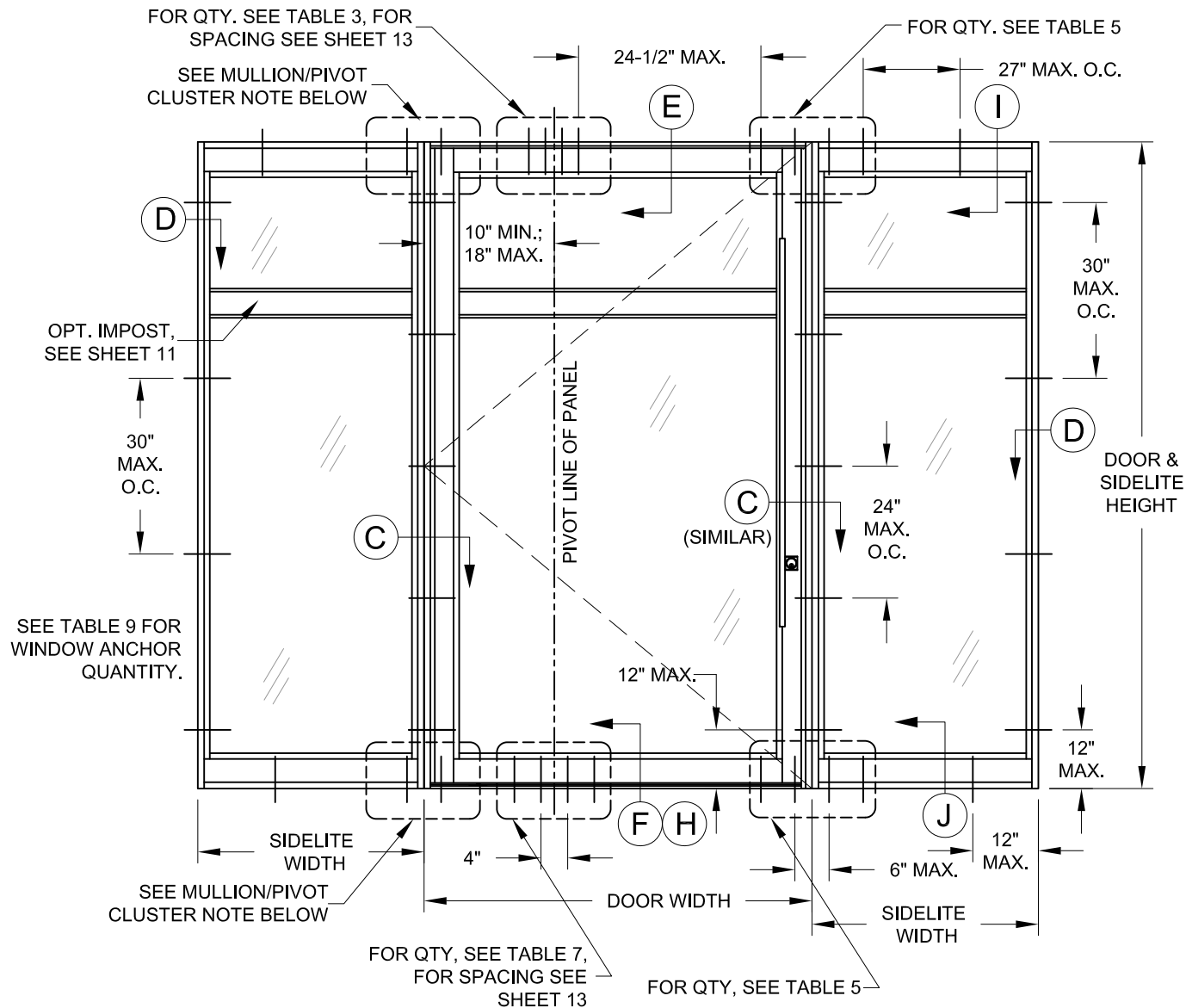
FIGURE 1:



OH RATIO MUST BE 1.0 OR GREATER

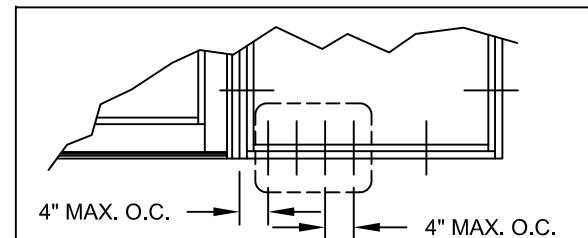
$$\text{OH RATIO} = \frac{\text{OH LENGTH}}{\text{OH HEIGHT}}$$

THE DOOR IS NOT RATED FOR WATER INFILTRATION RESISTANCE AND MUST ONLY BE USED WHERE IT IS NOT REQUIRED OR WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE FIGURE 1).



DOOR WITH LEFT & RIGHT SIDELITES, OXO

LEFT-SIDE PIVOT SHOWN, MAY BE REVERSED FOR RIGHT-SIDE PIVOT.



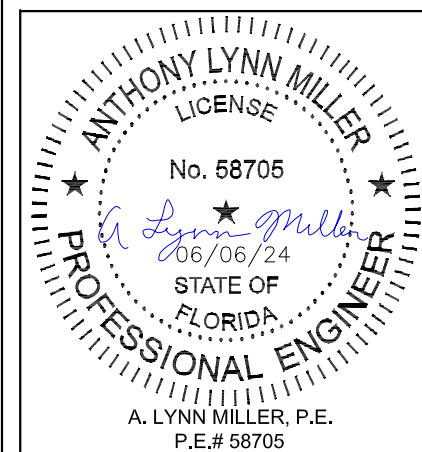
NO-THRESHOLD APPLICATION
FOR APPLICATIONS WITHOUT A DOOR THRESHOLD, MOVE ALL VERTICAL MULLION CLUSTER ANCHORS TO THE SIDELITE SIMILAR AS SHOWN. ALSO, SEE DETAIL H, SHEET 10 FOR DOOR INSTALLATION SPECIFICATIONS.

MULLION/PIVOT CLUSTER NOTE:
IN CASES WHERE THE PIVOT LINE IS ON THE SIDE OF A DOOR-TO-SIDELITE MULLION, YOU MAY USE HALF OF THE VERTICAL MULLION ANCHOR CLUSTER QUANTITY SHOWN IN TABLE 5 (ROUNDED UP).

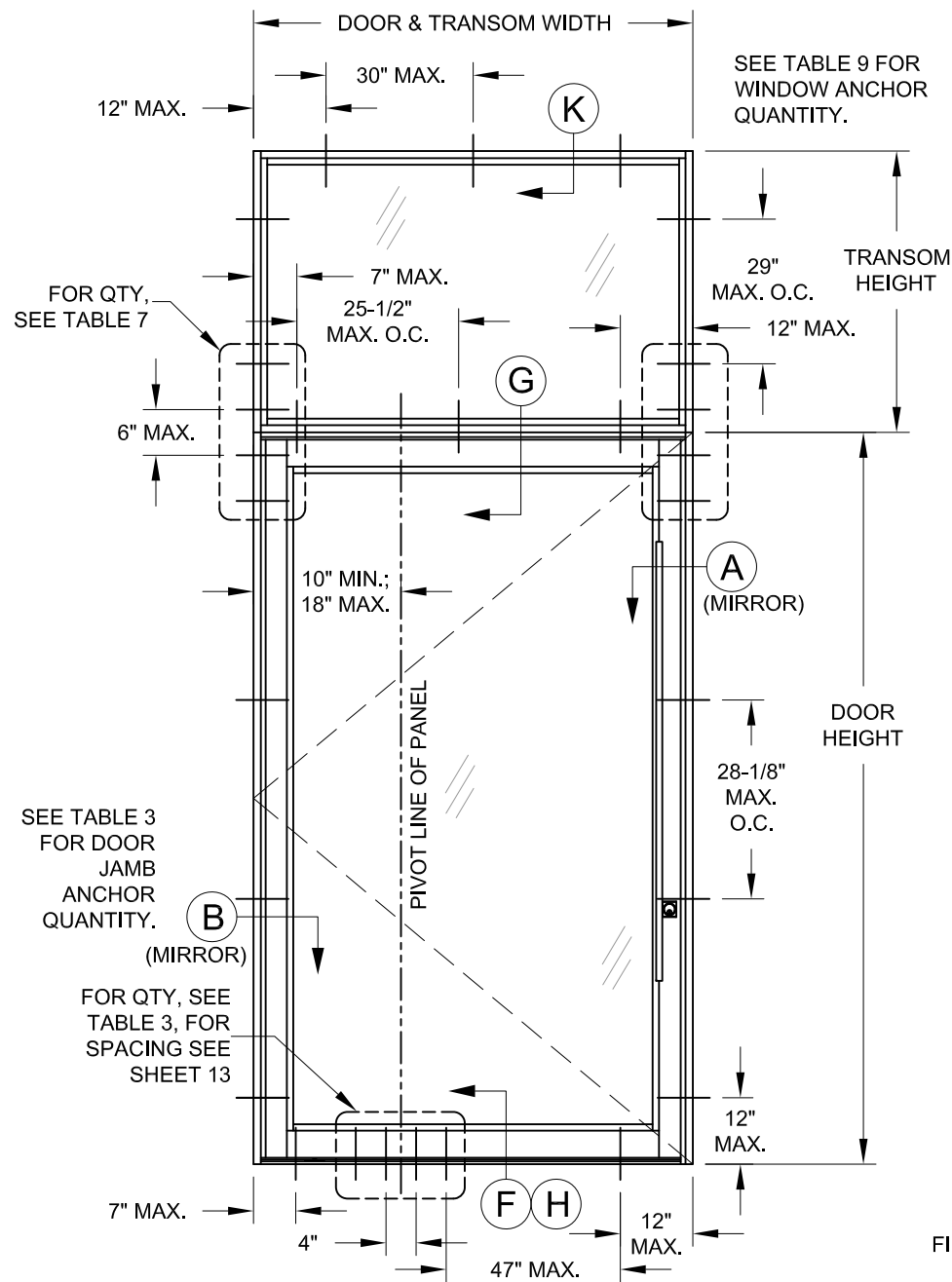
NOTES:

- 1) DOOR/PICTURE WINDOW/SIDELITE/TRANSOM MAY HAVE NARROW OR WIDE STILES/RAILS.
- 2) THE FIXED MULLION IS ONLY AVAILABLE WITH THE NARROW STILE.

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ALUMINUM PIVOT DOOR, OS & IS (NI)		10/10/19	
Date			
ELEVATIONS		JENS ROSOWSKI	
By		Drawn	
No.		DWG	
2 OF 14		9998FPA-NI-2	
Sheet			
PV9998A			
Series			
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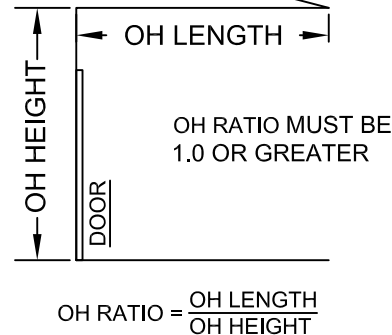


SINGLE DOOR WITH TRANSOM

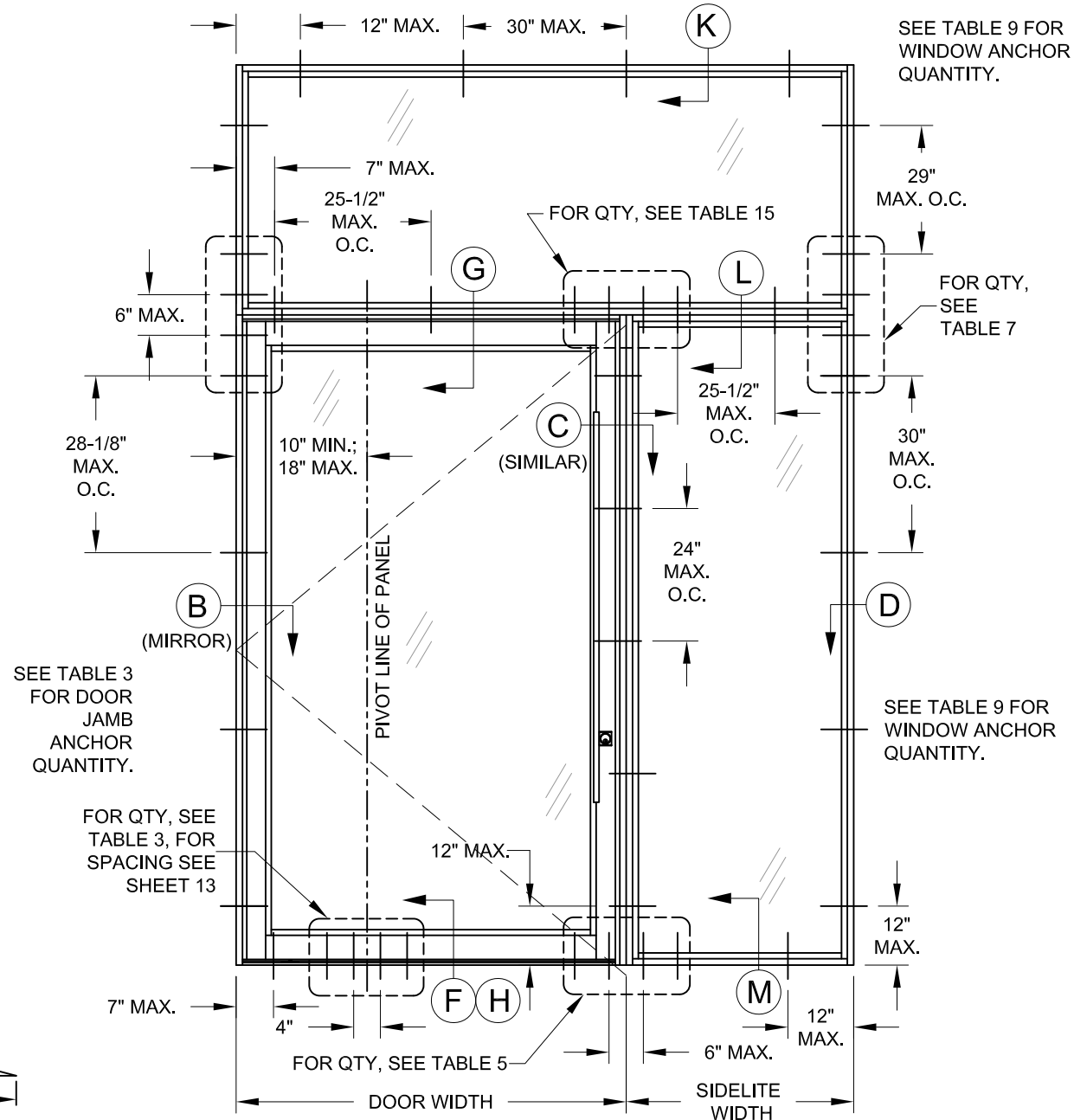
LEFT-SIDE PIVOT SHOWN, MAY BE REVERSED FOR RIGHT-SIDE PIVOT.

NO-THRESHOLD APPLICATION:
FOR APPLICATIONS WITHOUT A DOOR THRESHOLD, OMIT ALL SILL ANCHORAGE SHOWN. ALSO, SEE DETAIL H, SHEET 10 FOR INSTALLATION SPECIFICATIONS.

FIGURE 1:

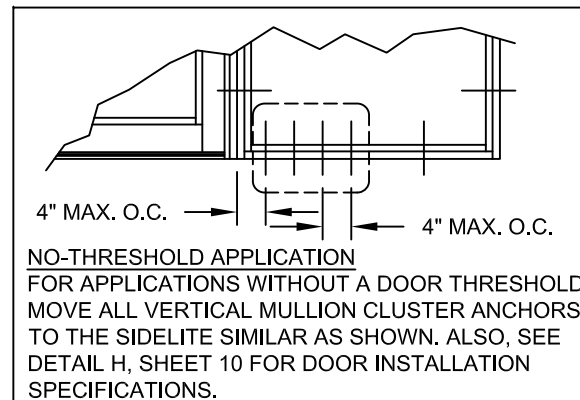


THE DOOR IS NOT RATED FOR WATER INFILTRATION RESISTANCE AND MUST ONLY BE USED WHERE IT IS NOT REQUIRED OR WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE FIGURE 1).



DOOR WITH RIGHT SIDELITE & TRANSOM

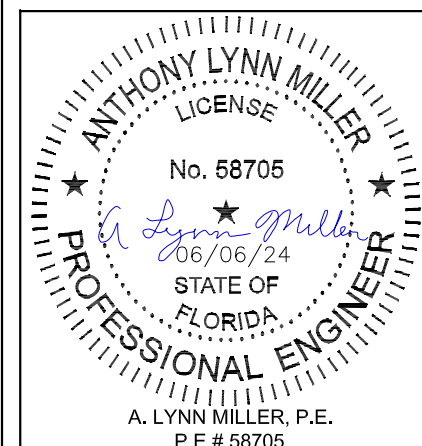
LEFT-SIDE PIVOT SHOWN, MAY BE REVERSED FOR RIGHT-SIDE PIVOT.
LEFT SIDELITE (NOT SHOWN) SIMILAR. OXO CONFIGURATION WITH TRANSOM ALSO ACCEPTABLE, SEE SHEET 2 FOR SIMILAR.



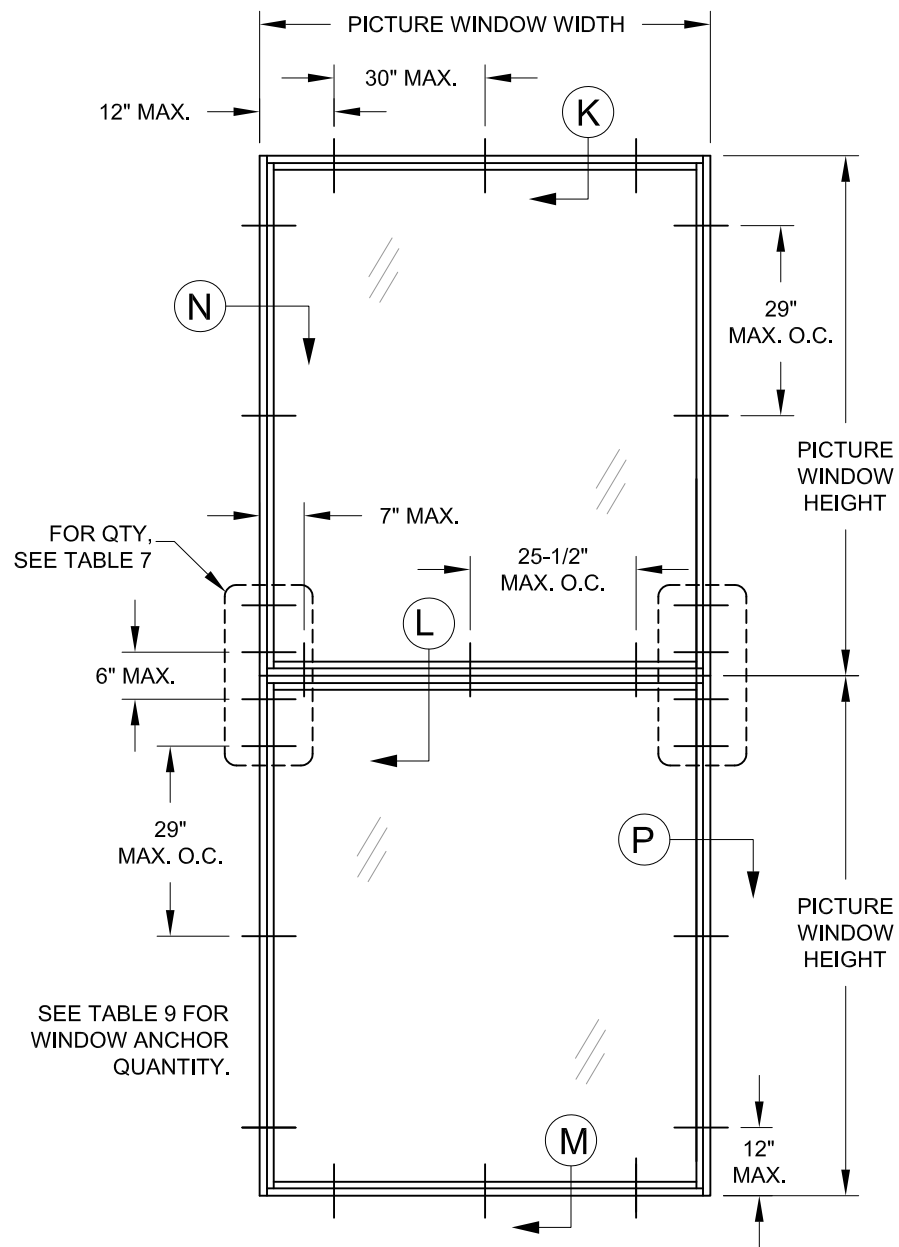
NOTES:

- 1) DOOR/PICTURE WINDOW/SIDELITE/TRANSOM MAY HAVE NARROW OR WIDE STILES/RAILS.
- 2) THE FIXED MULLION IS ONLY AVAILABLE WITH THE NARROW STILE.

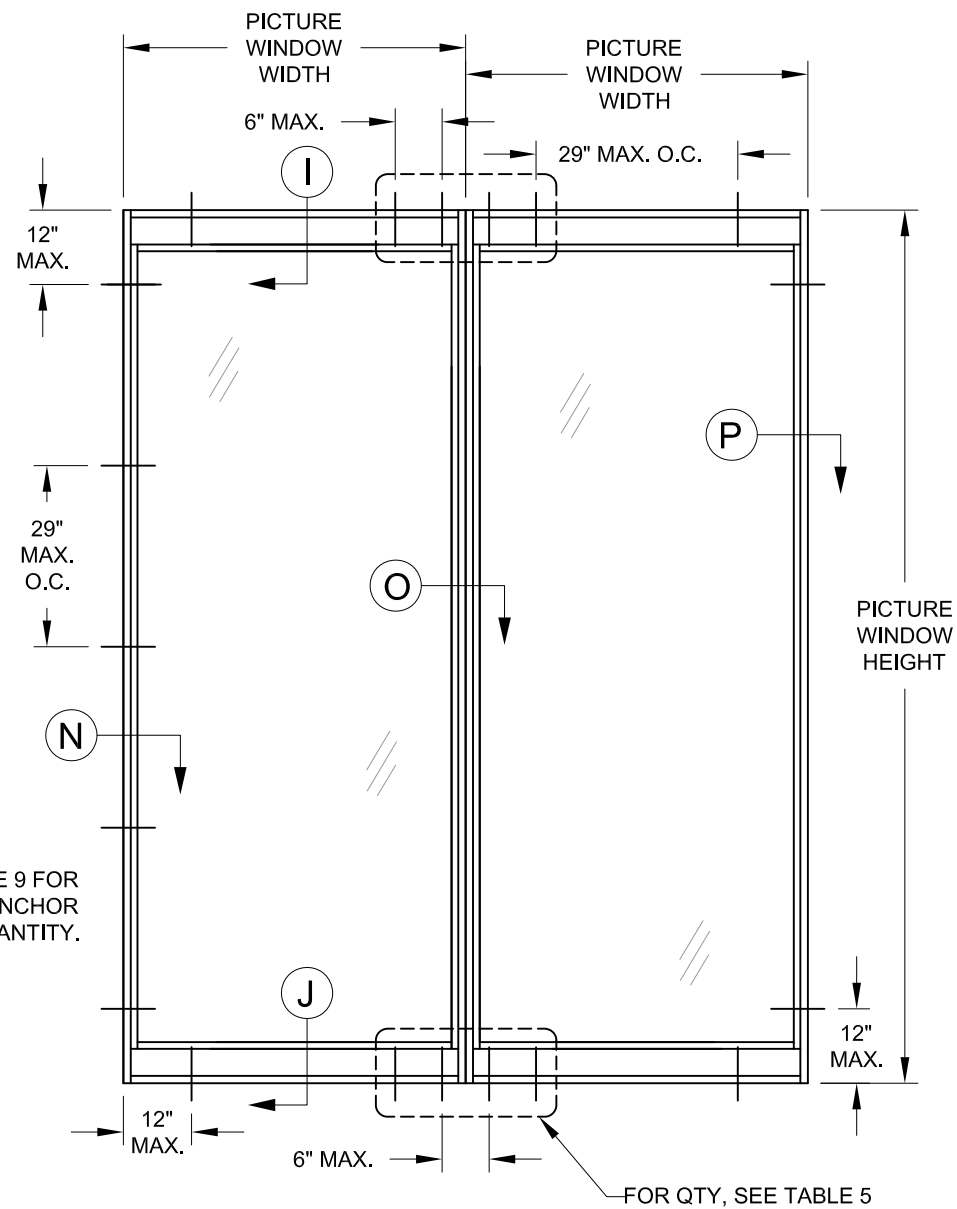
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			REGISTRATION #29296		COPYRIGHT © 2024 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.				
		ALUMINUM PIVOT DOOR, OS & IS (NI)		Date		10/10/19					
				By		JENS ROSOWSKI					
				Drawn							
Series		Desc.		ELEVATIONS				DWG No.		9998FPA-NI-2	
PV9998A		Sheet		3 OF 14							



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HORIZONTALLY MULLED PICTURE WINDOWS O/O
SHOWN WITH OPTIONAL NARROW JAMB RAILS



VERTICALLY MULLED PICTURE WINDOWS O/O
SHOWN WITH OPTIONAL WIDE TOP/BOTTOM RAILS

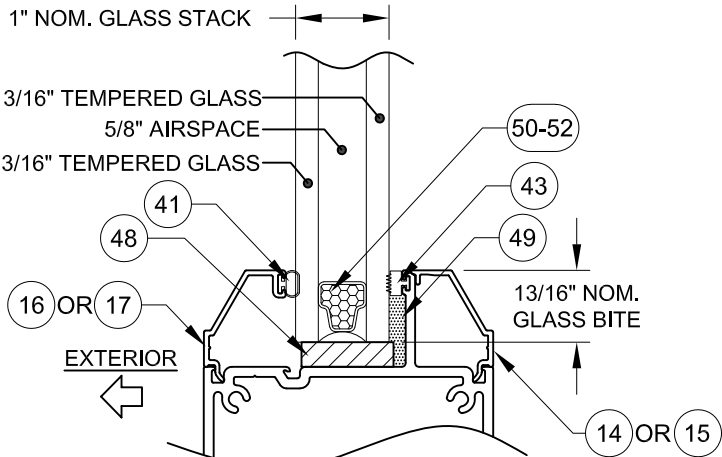
- NOTES:**
- 1) WINDOWS ARE RATED FOR A WATER TEST PRESSURE THAT IS 15% OF THE POSITIVE DESIGN PRESSURE LISTED IN THE DP TABLES, SEE SHEET 7 FOR DETAILS.
 - 2) TWO MULLED UNITS SHOWN, MAY BE UNLIMITED UNITS.
 - 3) TRANSOM MAY ALSO BE INSTALLED OVER 2 OR MORE HORIZONTALLY MULLED WINDOWS (NOT SHOWN). USE SIMILAR ANCHOR DIMENSIONS AS SHOWN ABOVE.
 - 4) DOOR/PICTURE WINDOW/SIDELITE/TRANSOM MAY HAVE NARROW OR WIDE STILES/RAILS.
 - 5) THE FIXED MULLION IS ONLY AVAILABLE WITH THE NARROW STILE.
 - 6) SINGLE, STAND-ALONE PICTURE WINDOWS (NOT SHOWN) ARE ALSO QUALIFIED.

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ELEVATIONS		JENS ROSOWSKI	
PV9998A		4 OF 14	
9998FPA-NI-2		NO CHANGES THIS SHEET	
D		06/06/24	

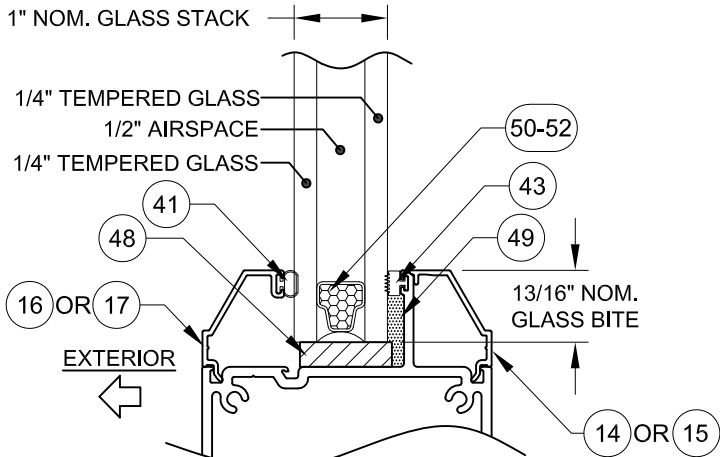
ANTHONY LYNN MILLER
LICENSE
No. 58705
06/06/24
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 2:

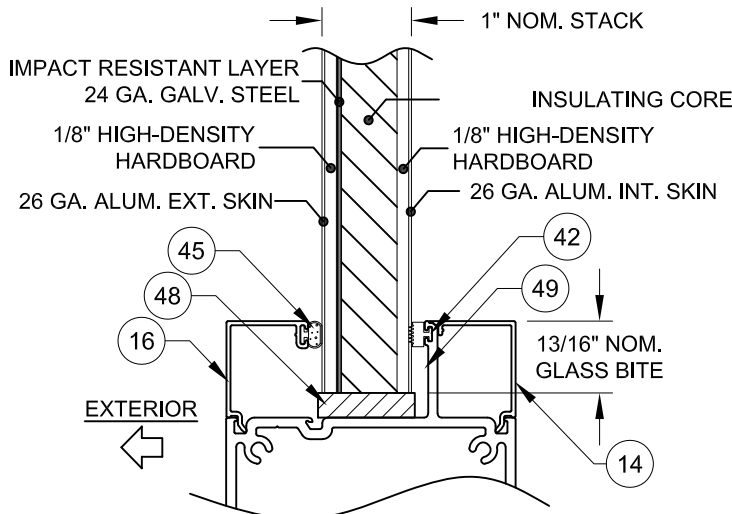
Frame Height	Door Design Pressure (lbs/ft ²)					
	Frame Width					
	48"	54"	60"	65.45"	72"	80"
80"	+120/-120	+112.5/-120	+103.8/-114.2	+97.1/-106	+90/-97.5	+82/-89.5
90"	+109.1/-120	+100/-111	+92.3/-101.5	+86.3/-94.2	+80/-86.7	+72.9/-79.6
96"	+102.3/-114.9	+93.8/-104.1	+86.5/-95.2	+80.9/-88.3	+75/-81.3	+68.3/-74.6
108"	+90.9/-102.1	+83.3/-92.5	+76.9/-84.6	+71.9/-78.5	+66.7/-72.2	+60.7/-66.3
120"	+81.8/-91.9	+75/-83.3	+69.2/-76.1	+64.7/-70.6	+60/-65	
132"	+61.5/-69	+56.3/-62.6	+52/-57.2	+48.6/-53.1		
144"	+47.3/-53.2	+43.4/-48.2	+40.1/-44.1			



TYP. GLAZING DETAIL
3/16" INSULATED, (IG) GLASS



TYP. GLAZING DETAIL
1/4" INSULATED, (IG) GLASS



OPAQUE PANEL
MAPES ARCHITECTURAL PANEL
MAPESHIELD ©

"X" DOOR NOTES:

- 1) THE DOOR IS NOT RATED FOR WATER INFILTRATION RESISTANCE AND MUST ONLY BE USED WHERE IT IS NOT REQUIRED OR WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE FIGURE 1, SHEETS 2 & 3).
- 2) SEE SHEETS 2 & 3 FOR INSTALLATION ELEVATIONS.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

TABLE 3:

Frame Height	Anchor Group	Anchor Location on Frame	Door Anchor Quantities					
			Frame Width					
			48"	54"	60"	65.45	72"	80"
80"	A & B	Head @ Pivot	3	4	4	4	4	4
		Sill @ Pivot	4	5	5	5	5	5
	A	Jamb	3	4	5	5	5	6
		Jamb	7	8	9	9	9	10
	C & D	Head @ Pivot	2	2	2	2	2	2
		Sill @ Pivot	3	3	3	3	3	3
90"	A & B	Head @ Pivot	4	4	4	4	4	4
		Sill @ Pivot	5	5	5	5	5	5
	A	Jamb	4	5	5	5	5	6
		Jamb	8	8	9	9	9	10
	C & D	Head @ Pivot	2	2	2	2	2	2
		Sill @ Pivot	3	3	3	3	3	3
96"	A & B	Head @ Pivot	4	4	4	4	4	4
		Sill @ Pivot	5	5	5	5	5	5
	A	Jamb	4	5	5	5	5	6
		Jamb	8	8	9	9	10	10
	C & D	Head @ Pivot	2	2	2	2	2	2
		Sill @ Pivot	3	3	3	3	3	3
108"	A & B	Head @ Pivot	4	4	4	4	4	4
		Sill @ Pivot	5	5	5	5	5	5
	A	Jamb	4	5	5	5	5	6
		Jamb	8	8	9	9	9	10
	C & D	Head @ Pivot	2	2	2	2	2	2
		Sill @ Pivot	3	3	3	3	3	3
120"	A & B	Head @ Pivot	4	4	4	4	4	
		Sill @ Pivot	5	5	5	5	5	
	A	Jamb	5	5	5	5	5	
		Jamb	8	8	9	9	9	
	C & D	Head @ Pivot	2	2	2	2	2	
		Sill @ Pivot	3	3	3	3	3	
132"	A & B	Head @ Pivot	3	3	3	3		
		Sill @ Pivot	4	4	4	4		
	A	Jamb	5	5	5	5		
		Jamb	6	7	7	7		
	C & D	Head @ Pivot	2	2	2	2		
		Sill @ Pivot	2	2	2	2		
144"	A & B	Head @ Pivot	2	2	2			
		Sill @ Pivot	3	3	3			
	A	Jamb	6	6	6			
		Jamb	6	6	6			
	C & D	Head @ Pivot	2	2	2			
		Sill @ Pivot	2	2	2			

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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ALUMINUM PIVOT DOOR, OS & IS (NI)
DP, ANCH. TABLES & GLZ DET.

10/10/19
JENS ROSOWSKI
9998FPA-NI-2

5 OF 14
PV9998A

ANTHONY LYNN MILLER
LICENSE
No. 58705
06/06/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 4:

Vertical Mullion Design Pressure (lbs/ft²)									
Mullion Length	Opening Width (Both Units)								
	72"	84"	96"	114"	120"	132"	144"	156"	168"
80"	+/-120	+/-120	+/-120	+/-120	+/-120	+/-113	+/-103.5	+/-95.6	+/-88.8
90"	+/-120	+/-120	+/-120	+/-103.3	+/-98.2	+/-89.3	+/-81.8		
96"	+/-120	+/-116.1	+/-101.6	+/-85.6	+/-81.3	+/-73.9			
108"	+/-95.1	+/-81.6	+/-71.4	+/-65	+/-57.1				
120"	+/-69.4	+/-65	+/-65	+/-65					
132"	+/-52.1	+/-44.7	+/-39.1						
144"	+/-40.1	+/-34.4							

TABLE 5:

Cluster Anchors Required at Each Vertical Mullion End										
Mullion Length	Anchor Group	Opening Width (Both Units)								
		72"	84"	96"	114"	120"	132"	144"	156"	168"
80"	A & B	6	7	8	9	10	10	10	10	10
	C & D	4	5	6	7	7	7	7	7	7
90"	A & B	7	8	9	9	9	9	9		
	C & D	5	6	6	6	6	6	6		
96"	A & B	7	8	8	8	8	8			
	C & D	5	6	6	6	6	6			
108"	A & B	7	7	7	7	7				
	C & D	5	5	5	5	5				
120"	A & B	5	6	7	8					
	C & D	4	4	5	5					
132"	A & B	5	5	5						
	C & D	3	3	3						
144"	A & B	4	4							
	C & D	3	3							

MULLION NOTES:

- 1) IN SOME CASES, YOU MAY USE HALF OF THE VERTICAL MULLION ANCHOR QUANTITY SHOWN. SEE SHEET 2, "MULLION/PIVOT CLUSTER NOTE".
- 2) SEE SHEETS 2-4 FOR INSTALLATION ELEVATIONS.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

TABLE 6:

Horizontal Mullion Design Pressure (lbs/ft²)								
Mullion Length	Total Opening Height (Both Units)							
	96"	108"	120"	132"	144"	156"	168"	180"
80"	+/-120	+/-120	+/-120	+/-118.9	+/-109	+/-100.6	+/-93.4	+/-87.2
86"	+/-120	+/-120	+/-113.1	+/-102.9	+/-94.3	+/-87	+/-80.8	+/-75.4
92"	+/-118.7	+/-105.5	+/-95	+/-86.3	+/-79.1	+/-73	+/-67.8	+/-63.3
96"	+/-104.5	+/-92.9	+/-83.6	+/-76	+/-69.6	+/-64.3	+/-59.7	+/-55.7
102"	+/-87.1	+/-77.4	+/-69.7	+/-63.3	+/-58.1	+/-53.6	+/-50	+/-50
114"	+/-62.4	+/-55.5	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
120"	+/-53.5	+/-47.5	+/-42.8	+/-38.9	+/-35.7	+/-32.9	+/-30.6	
132"	+/-40.2	+/-35.7	+/-32.1	+/-29.2	+/-26.8			

TABLE 7:

Cluster Anchors Required at Each Horizontal Mullion End									
Mullion Length	Anchor Group	Total Opening Height (Both Units)							
		96"	108"	120"	132"	144"	156"	168"	180"
80"	A	8	9	10	11	11	11	11	11
	B	12	13	15	16	16	16	16	16
	C	6	6	7	8	8	8	8	8
	D	7	7	8	9	9	9	9	9
86"	A	9	10	10	10	10	10	10	10
	B	13	14	15	15	15	15	15	15
	C	6	7	7	7	7	7	7	7
	D	7	8	8	8	8	8	8	8
92"	A	9	9	9	9	9	9	9	9
	B	13	13	13	13	13	13	13	13
	C	6	6	6	6	6	6	6	6
	D	7	7	7	7	7	7	7	7
96"	A	8	8	8	8	8	8	8	8
	B	12	12	12	12	12	12	12	12
	C	6	6	6	6	6	6	6	6
	D	7	7	7	7	7	7	7	7
102"	A	7	7	7	7	7	7	8	8
	B	11	11	11	11	11	11	11	12
	C	5	5	5	5	5	5	5	6
	D	6	6	6	6	6	6	6	7
114"	A	6	6	6	7	7	8	8	9
	B	9	9	9	10	11	12	12	13
	C	4	4	4	5	5	5	6	6
	D	5	5	5	5	6	6	7	7
120"	A	6	6	6	6	6	6	6	
	B	8	8	8	8	8	8	8	
	C	4	4	4	4	4	4	4	
	D	5	5	5	5	5	5	5	
132"	A	5	5	5	5	5			
	B	7	7	7	7	7			
	C	3	3	3	3	3			
	D	4	4	4	4	4			

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N. VENICE, FL 34275
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ALUMINUM PIVOT DOOR, OS & IS (NI)

DP & ANCHORAGE TABLES

10/10/19

By

JENS ROSOWSKI

No.

6 OF 14

9998FPA-NI-2

Sheet

PV9998A

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TABLE 8:

Picture Window, Sidelite or Transom Design Pressure (lbs/ft ²)											
Long Side Length	Short Side Length										
	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"
30"	+/-120										
36"	+/-120	+/-120									
42"	+/-120	+/-120	+/-120								
48"	+/-120	+/-120	+/-120	+/-120							
54"	+/-120	+/-120	+117.8/-120	+113.4/-120	+112/-120						
60"	+/-120	+/-120	+110.8/-120	+105/-113.8	+101.8/-110.3	+100.8/-109.2					
66"	+/-120	+115.5/-120	+105.6/-114.4	+99/-107.3	+94.8/-102.7	+92.4/-100.1	+91.6/-99.3				
72"	+/-120	+112/-120	+101.6/-110.1	+94.5/-102.4	+89.6/-97.1	+86.4/-93.6	+84.6/-91.6	+84/-91			
78"	+/-120	+109.2/-118.3	+98.5/-106.7	+91/-98.6	+85.6/-92.8	+81.9/-88.7	+79.4/-86	+78/-84.5	+77.5/-84		
84"	+/-120	+106.9/-115.8	+96/-104	+88.2/-95.6	+82.5/-89.4	+78.4/-84.9	+75.5/-81.8	+73.5/-79.6	+72.4/-78.4	+72/-78	
90"	+/-120	+105/-113.8	+93.9/-101.7	+85.9/-93.1	+80/-86.7	+75.6/-81.9	+72.3/-78.4	+70/-75.8	+68.4/-74.1	+67.5/-73.1	+67.2/-72.8
96"	+119.5/-120	+103.4/-112	+92.2/-99.8	+84/-91	+77.9/-84.4	+73.3/-79.4	+69.8/-75.6	+67.2/-72.8	+65.3/-70.7	+64/-69.3	+63.2/-68.5
102"	+118.2/-120	+102/-110.5	+90.7/-98.2	+82.4/-89.3	+76.2/-82.5	+71.4/-77.4	+67.7/-73.4	+64.9/-70.3	+62.8/-68	+61.2/-66.3	
108"	+117.1/-120	+100.8/-109.2	+89.4/-96.8	+81/-87.8	+74.7/-80.9	+69.8/-75.6	+66/-71.5	+63/-68.3	+60.7/-65.7		
114"	+116.1/-120	+99.8/-108.1	+88.3/-95.6	+79.8/-86.5	+73.4/-79.5	+68.4/-74.1	+64.5/-69.9	+61.4/-66.5			
120"	+115.2/-120	+98.8/-107.1	+87.3/-94.5	+78.8/-85.3	+72.3/-78.3	+67.2/-72.8	+63.2/-68.5	+60/-65			
126"	+114.4/-120	+98/-106.2	+86.4/-93.6	+77.8/-84.3	+71.3/-77.2	+66.2/-71.7	+62.1/-67.2				
132"	+113.7/-120	+97.3/-105.4	+85.6/-92.8	+77/-83.4	+70.4/-76.3	+65.2/-70.7					
138"	+113.1/-120	+96.6/-104.7	+84.9/-92	+76.3/-82.6	+69.6/-75.4	+64.4/-69.8					
144"	+112.5/-120	+96/-104	+84.3/-91.3	+75.6/-81.9	+68.9/-74.7	+63.7/-69					

SEE TABLE 9 FOR ANCHOR QUANTITIES REQUIRED.

"O" FIXED LITE NOTES:

- 1) SEE SHEETS 2-4 FOR INSTALLATION ELEVATIONS.
- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 3) ALL SIZES ON THIS SHEET ARE RATED FOR A WATER TEST PRESSURE THAT IS 15% OF THE POSITIVE DESIGN PRESSURE LISTED IN THE TABLE.

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DP & ANCHORAGE TABLES		By		Date	
PV9998A		7 OF 14		9998FPA-NI-2	
Series		Desc.		Title	

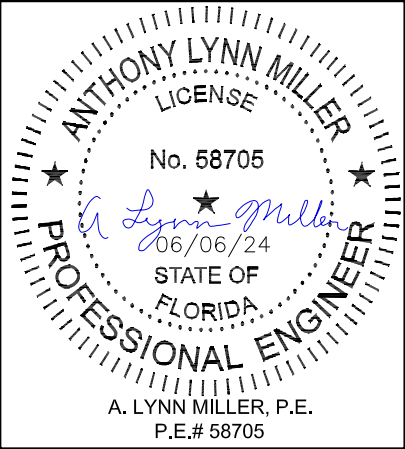


TABLE 9:

Picture Window, Sidelite or Transom Anchor Quantities																																														
Long Side Length	Anchor Location on Frame	Short Side Length / Anchor Group																																												
		30"				36"				42"				48"				54"				60"				66"				72"				78"				84"				90"				
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D									
30"	Long Side	2	2	2	2																																									
	Short Side	2	2	2	2																																									
36"	Long Side	2	2	2	2	2	2	2	2																																					
	Short Side	2	2	2	2	2	2	2	2																																					
42"	Long Side	2	3	2	2	2	3	2	2	2	3	2	2																																	
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2																																	
48"	Long Side	2	3	2	2	3	4	2	2	3	4	2	2	3	4	2	2																													
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2																													
54"	Long Side	3	4	2	2	3	4	2	3	3	5	2	3	3	5	2	3	3	5	2	3																									
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	2	3																									
60"	Long Side	3	5	3	3	3	5	3	3	4	5	3	3	4	5	3	3	4	5	3	3	4	5	3	3																					
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	4	2	3	4	5	3	3																					
66"	Long Side	4	5	3	3	4	6	3	3	4	6	3	3	4	6	3	3	4	6	3	3	4	6	3	3	4	6	3	3																	
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	4	2	2	3	5	3	3	4	6	3	3																	
72"	Long Side	4	6	3	3	4	6	3	4	4	6	3	4	4	6	3	4	4	6	3	4	4	6	3	4	4	6	3	4	4	6	3	4													
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	2	2	3	5	3	3	4	5	3	3	4	5	3	3	4	6	3	3	4								
78"	Long Side	4	6	3	3	5	7	3	4	5	7	3	4	5	7	3	4	5	7	3	4	5	7	3	4	5	7	3	4	5	7	3	4	5	7	3	4									
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	2	2	3	4	3	3	4	5	3	3	4	5	3	3	4	6	3	3	5	7	3	4					
84"	Long Side	5	7	3	4	5	7	4	4	5	7	4	4	5	7	4	4	5	7	4	4	5	7	4	4	5	7	4	4	5	7	4	4	5	7	4	4	5	7	4	4					
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	2	2	3	4	3	3	3	5	3	3	4	6	3	3	4	6	3	4	5	7	4	4					
90"	Long Side	5	7	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4	
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	2	2	3	4	3	3	3	5	3	3	4	5	3	3	4	6	3	3	5	7	3	4	5	8	4	4	
96"	Long Side	5	8	4	4	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5	
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	2	2	3	4	3	3	3	5	3	3	4	5	3	3	4	6	3	3	4	7	3	4	5	7	4	4	
102"	Long Side	6	8	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5					
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3	3	5	3	3	4	6	3	3	4	6	3	4					
108"	Long Side	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5													
	Short Side	5	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3	3	5	3	3	4	5	3	3									
114"	Long Side	6	9	4	5	7	10	5	5	7	10	5	5	7	10	5	5	7	10	5	5	7	10	5	5	7	10	5	5	7	10	5	5													
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3	3	5	3	3													
120"	Long Side	7	10	5	5	7	10	5	6	7	10	5	6	7	10	5	6	7	10	5	6	7	10	5	6	7	10	5	6	7	10	5	6													
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3	3	5	3	3													
126"	Long Side	7	10	5	6	7	11	5	6	7	11	5	6	7	11	5	6	7	11	5	6	7	11	5	6	7	11	5	6																	
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3																	
132"	Long Side	7	11	5	6	8	11	5	6	8	11	5	6	8	11	5	6	8	11	5	6	8	11	5	6																					
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	4	3	3																					
138"	Long Side	8	11	5	6	8	12	6	6	8	12	6	6	8	12	6	6	8	12	6	6	8	12	6	6																					
	Short Side	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	4	3	3																					
144"	Long Side	8	12	6	7	8	12	6	7	8	12	6	7	8	12	6	7	8	12	6	7	8	12	6	7																					
	Short Side	2	2																																											

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIDE LENGTH DIMENSION SHOWN ON THE TABLE.

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(833) 554-5432

PREPARED BY A. LYNN MILLER

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ALUMINUM PIVOT DOOR, OS & IS (NI)

DP & ANCHORAGE TABLES

By

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No.

9998FPA-NI-2

Sheet

PV9998A

DWG

8 OF 14

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10/10/19

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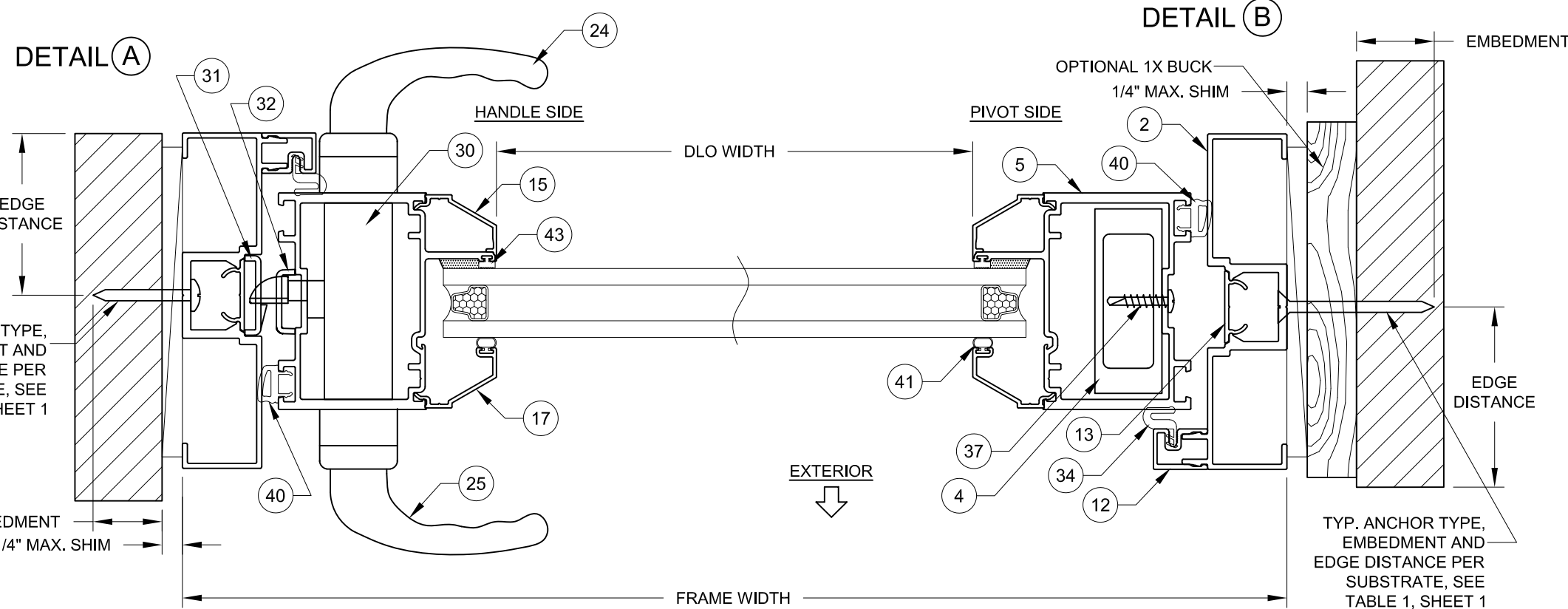
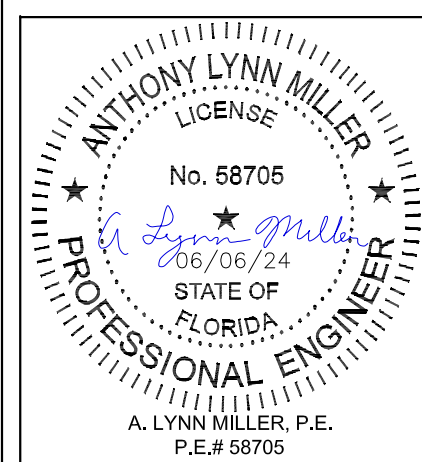
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Date

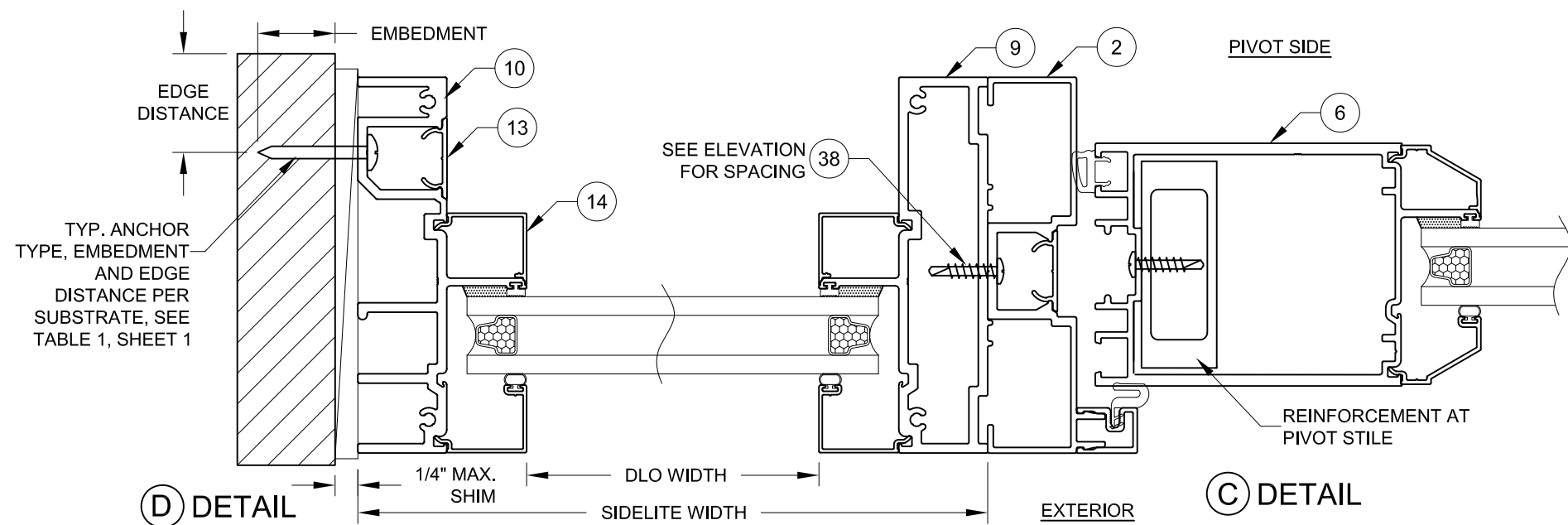
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Title		Desc.		Sheet		DWG		No.	



HORIZONTAL X-SECTION
(OUTSWING DOOR SHOWN, INSWING SIMILAR)



HORIZONTAL X-SECTION
(OUTSWING DOOR TO SIDELITE)

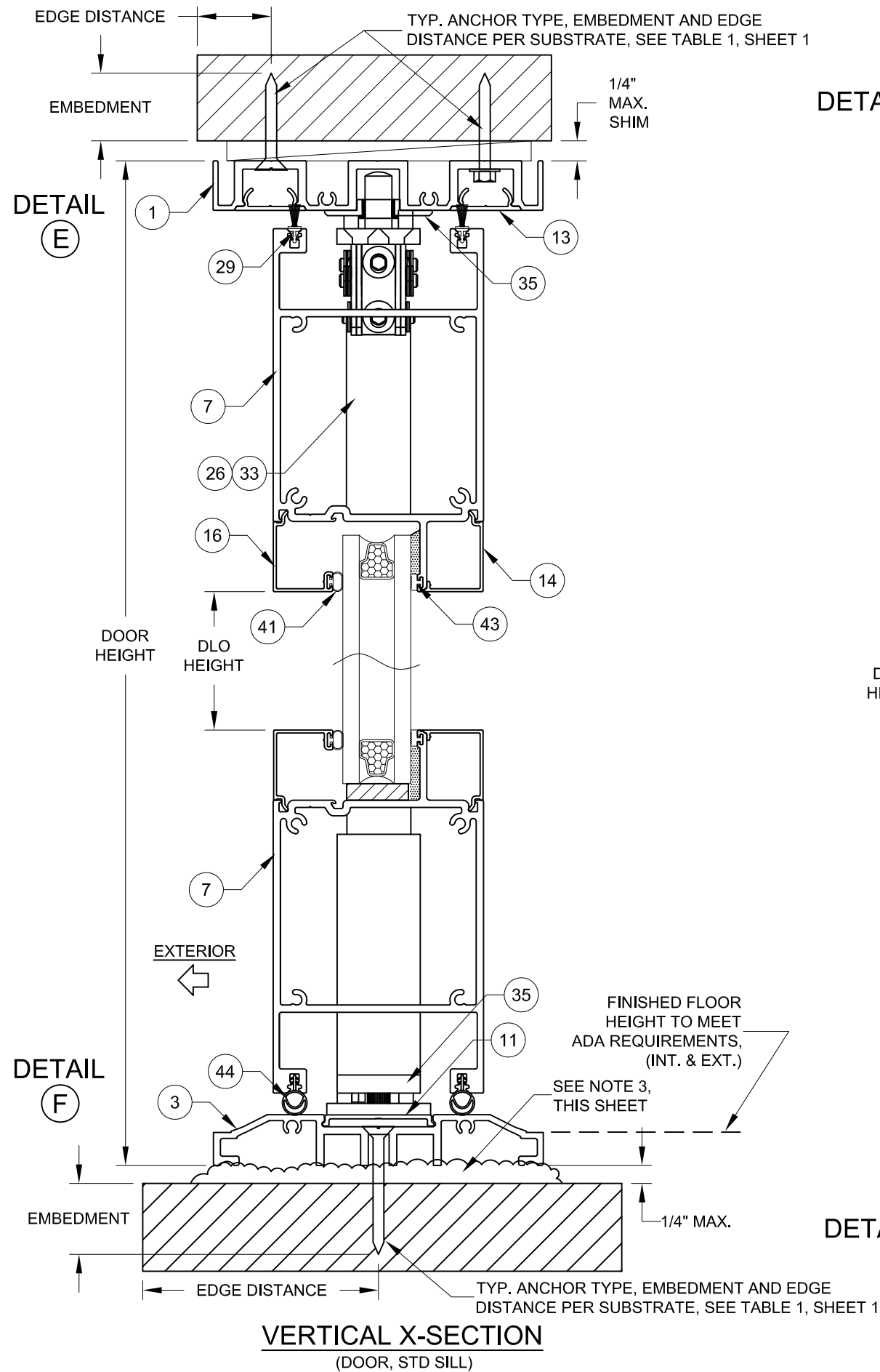
NOTES

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 1. FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY FRAME MEMBER. ALL ANCHOR HEAD TYPES ARE ALLOWED AT THE HEAD AND JAMBS; FLATHEAD ANCHORS REQUIRED AT THE SILL.

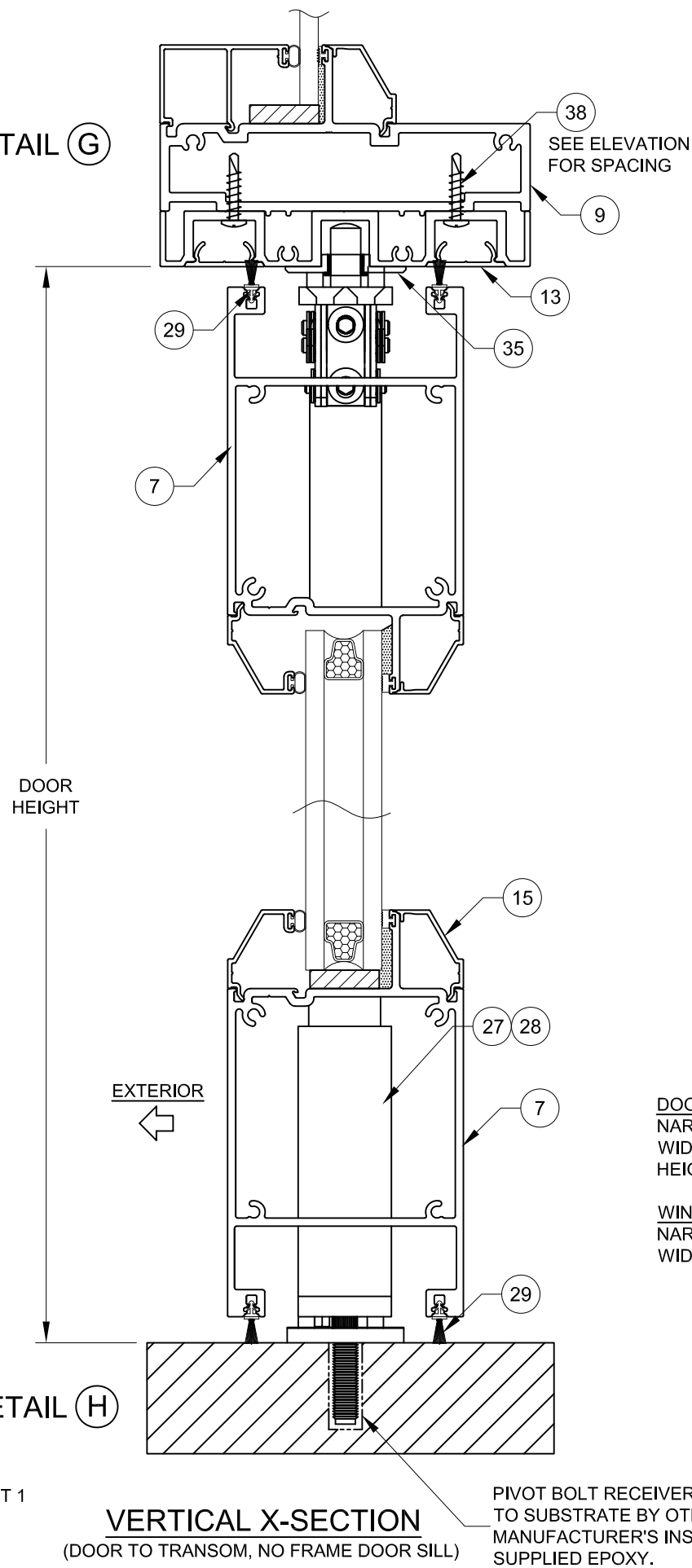
2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

DOOR DLO FORMULAS:
NARROW STILE DLO = FRAME WIDTH - 9-3/8"
WIDE STILE DLO = FRAME WIDTH - 13-1/8"
HEIGHT DLO = FRAME HEIGHT - 13-1/8"

WINDOW DLO FORMULAS:
NARROW STILE DLO = FRAME WIDTH OR HEIGHT - 4-1/2"
WIDE STILE WINDOW DLO = WIDTH OR HEIGHT - 13-1/8"



DETAIL G



NOTES

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 1. FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY FRAME MEMBER. ALL ANCHOR HEAD TYPES ARE ALLOWED AT THE HEAD AND JAMBS; FLATHEAD ANCHORS REQUIRED AT THE SILL.

2) 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

3) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

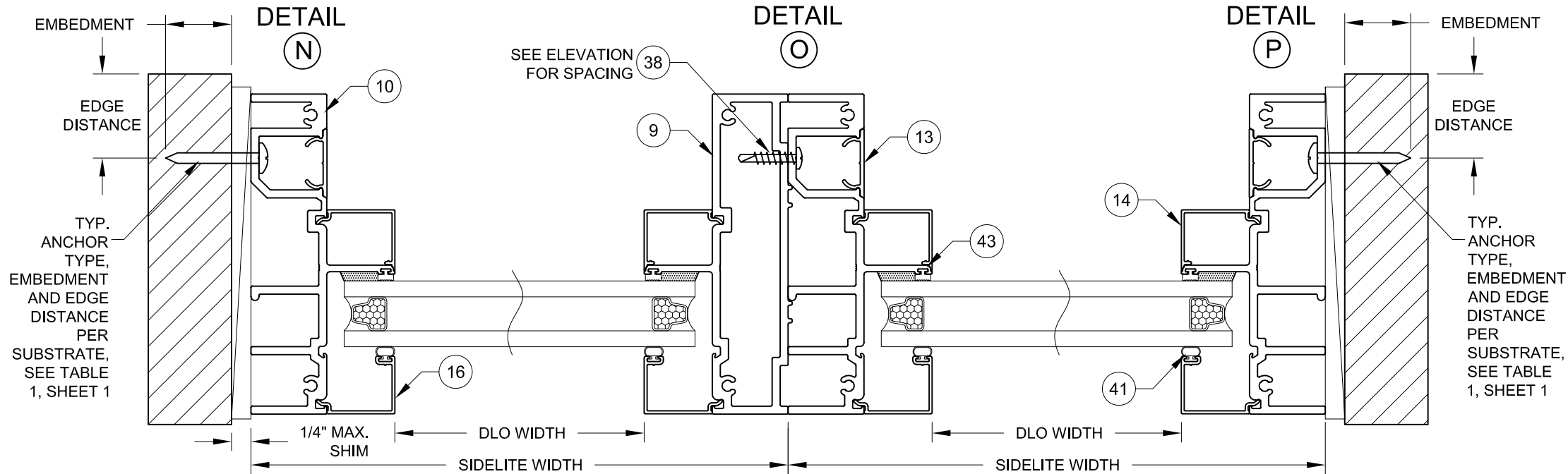
DOOR DLO FORMULAS:
NARROW STILE DLO = FRAME WIDTH - 9-3/8"
WIDE STILE DLO = FRAME WIDTH - 13-1/8"
HEIGHT DLO = FRAME HEIGHT - 13-1/8"

WINDOW DLO FORMULAS:
NARROW STILE DLO = FRAME WIDTH OR HEIGHT - 4-1/2"
WIDE STILE WINDOW DLO = WIDTH OR HEIGHT - 13-1/8"

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VERTICAL X-SECTIONS		10 OF 14		PV9998A	
Series		Desc.		Title	
PV9998A		10 OF 14		PV9998A	
9998FPA-NI-2		NO CHANGES THIS SHEET		06/06/24	
D		Rev. #		Date	

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No. 58705
06/06/24
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FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



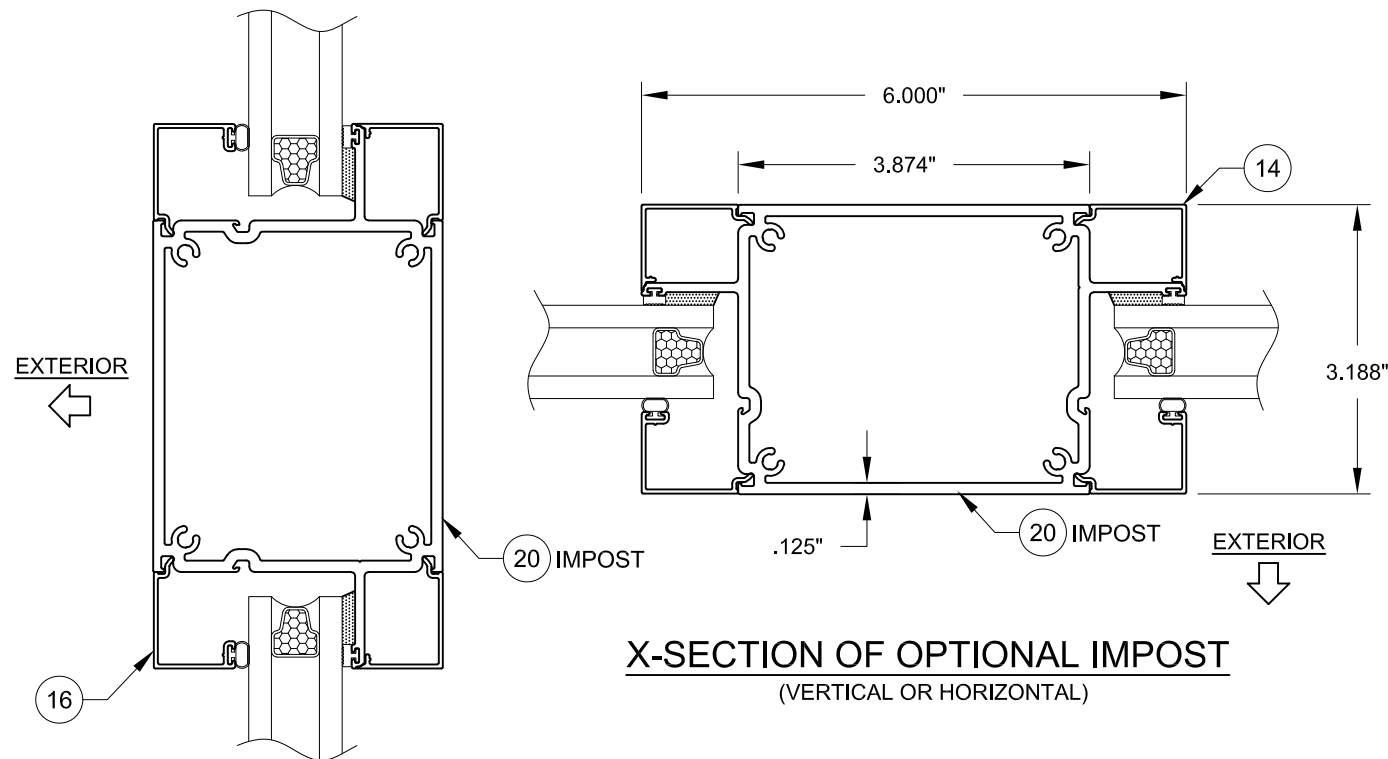
HORIZONTAL X-SECTION
(VERTICALLY MULLED PICTURE WINDOWS O(O))

NOTES

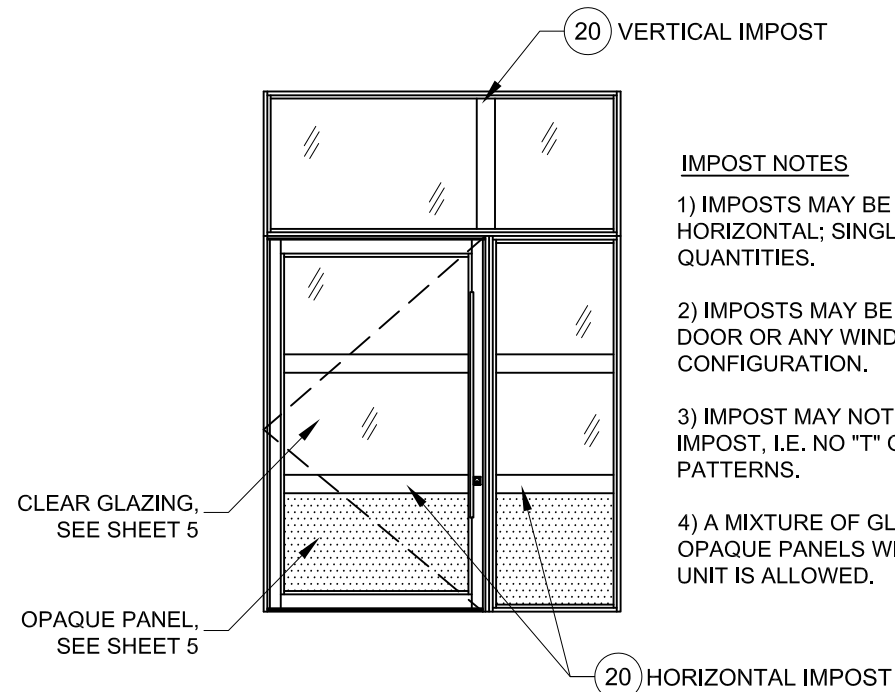
1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 1. FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY FRAME MEMBER. ALL ANCHOR HEAD TYPES ARE ALLOWED AT THE HEAD AND JAMBS; FLATHEAD ANCHORS REQUIRED AT THE SILL.

2) 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

WINDOW DLO FORMULAS:
NARROW STILE DLO = FRAME WIDTH OR HEIGHT - 4-1/2"
WIDE STILE WINDOW DLO = WIDTH OR HEIGHT - 13-1/8"



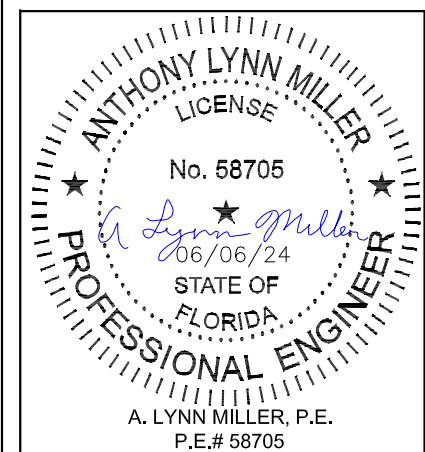
X-SECTION OF OPTIONAL IMPOST
(VERTICAL OR HORIZONTAL)

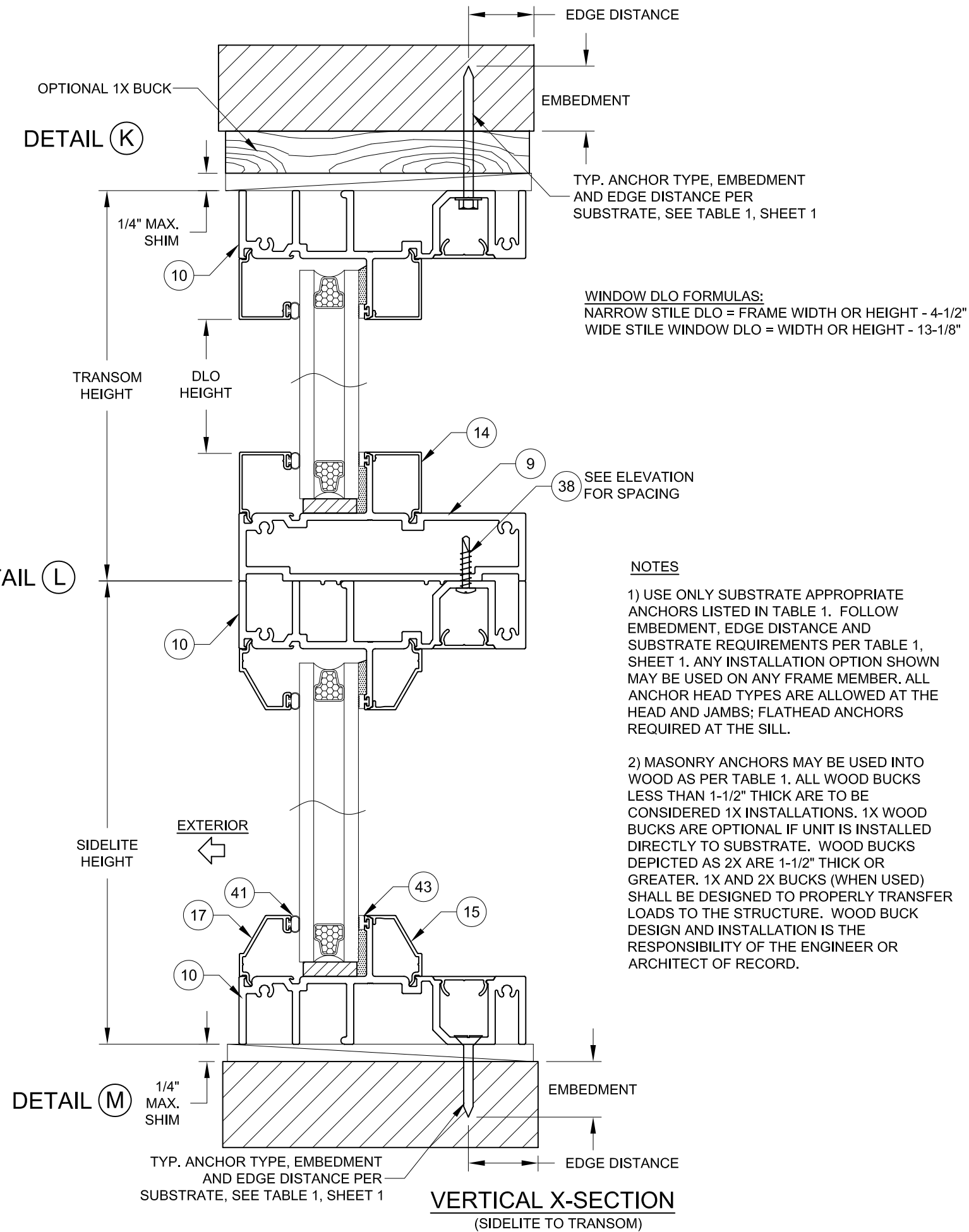
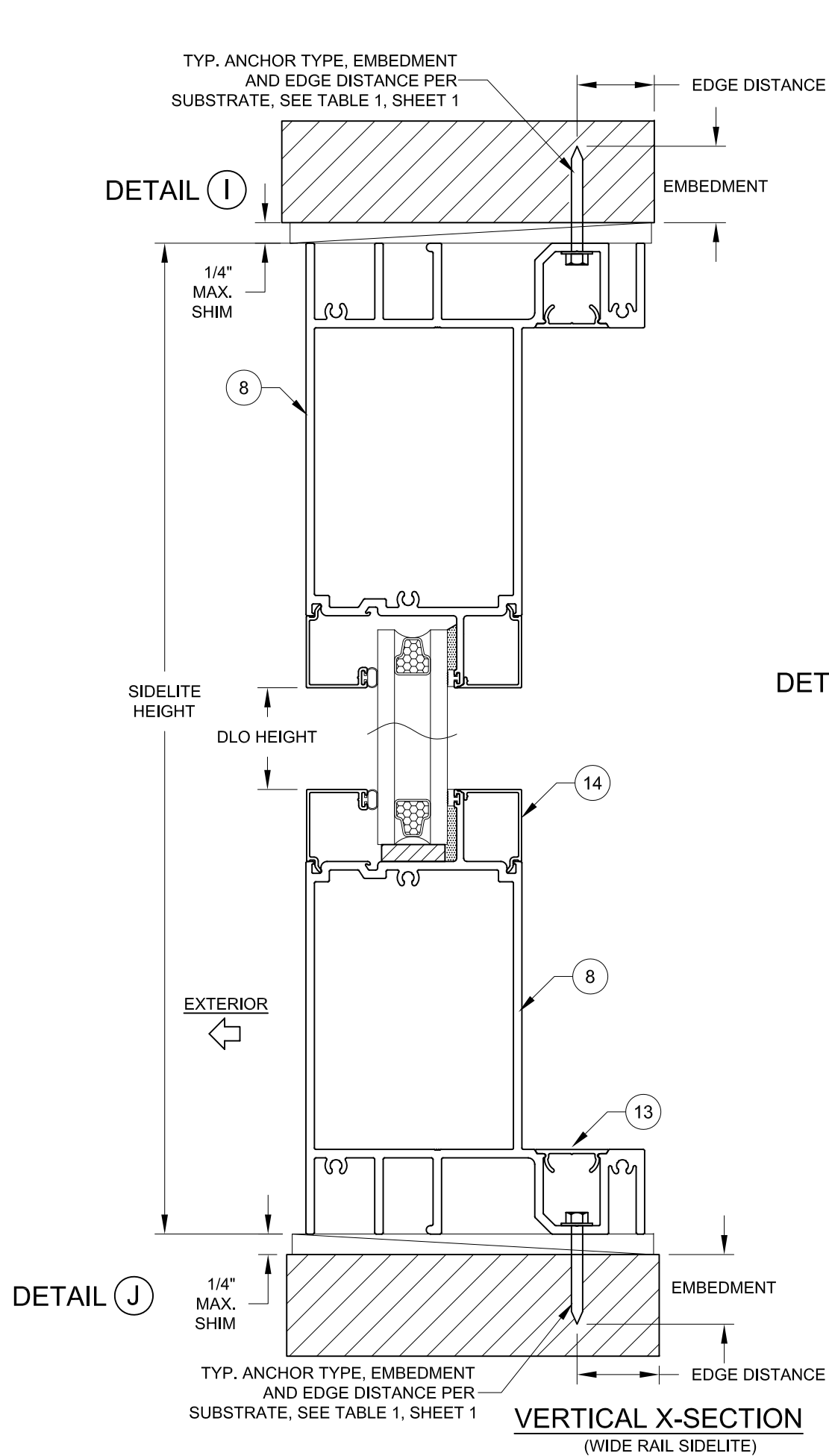


IMPOST NOTES

- 1) IMPOSTS MAY BE VERTICAL OR HORIZONTAL; SINGLE OR IN MULTIPLE QUANTITIES.
- 2) IMPOSTS MAY BE USED IN EITHER DOOR OR ANY WINDOW CONFIGURATION.
- 3) IMPOST MAY NOT CROSS ANOTHER IMPOST, I.E. NO "T" OR "CROSS" PATTERNS.
- 4) A MIXTURE OF GLAZING TYPES OR OPAQUE PANELS WITHIN THE SAME UNIT IS ALLOWED.

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ALUMINUM PIVOT DOOR, OS & IS (NI)		10/10/19	
HORIZONTAL X-SECTIONS		JENS ROSOWSKI	
PV9998A		9998FPA-NI-2	
11 OF 14		No.	
Sheet		By	
Drawn		Date	
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VERTICAL X-SECTIONS		PV9998A		12 OF 14	
9998FPA-NI-2		NO CHANGES THIS SHEET		06/06/24	
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ALUMINUM PIVOT DOOR, OS & IS (NI)

VERTICAL X-SECTIONS

PV9998A

12 OF 14

9998FPA-NI-2

NO CHANGES THIS SHEET

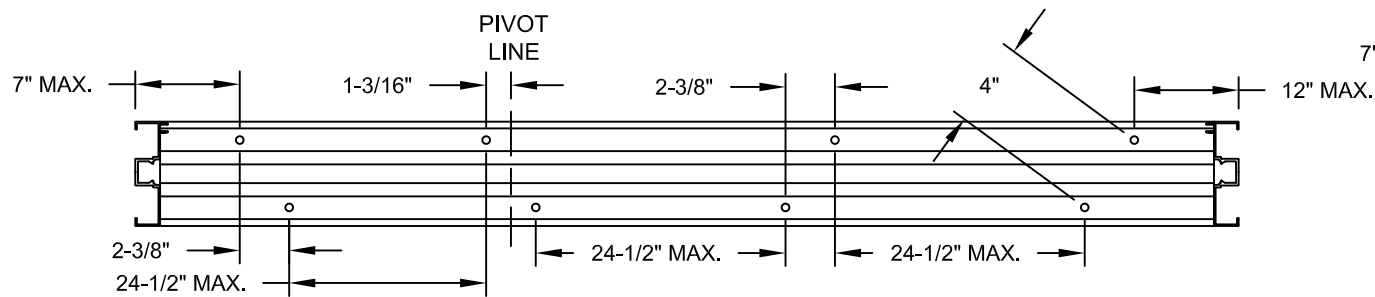
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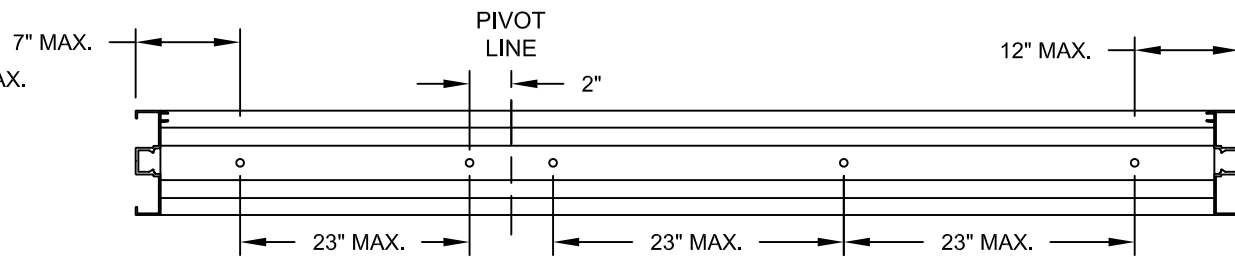
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Date

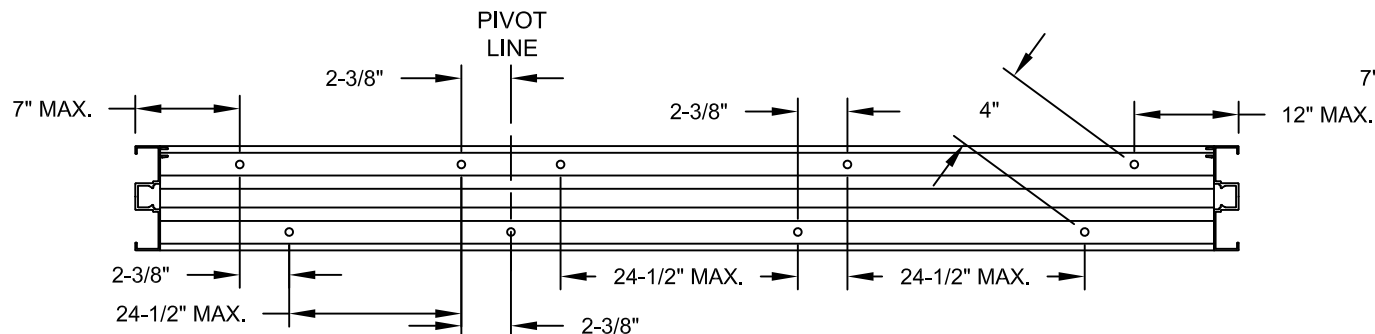
ANTHONY LYNN MILLER
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P.E.# 58705



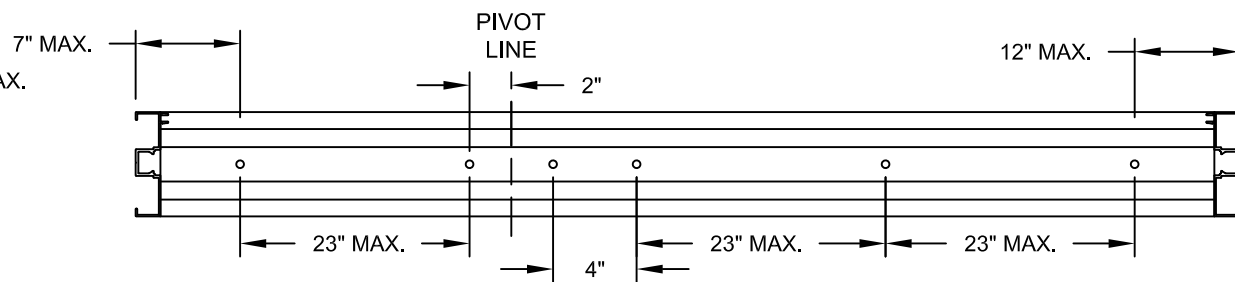
HEAD ANCHOR LAYOUT WITH 2 ANCHORS @ PIVOT LINE



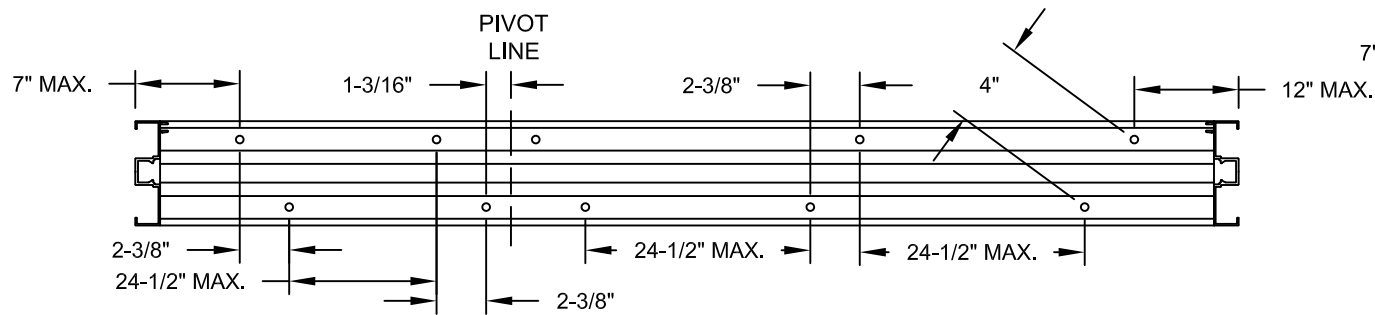
SILL ANCHOR LAYOUT WITH 2 ANCHORS @ PIVOT LINE



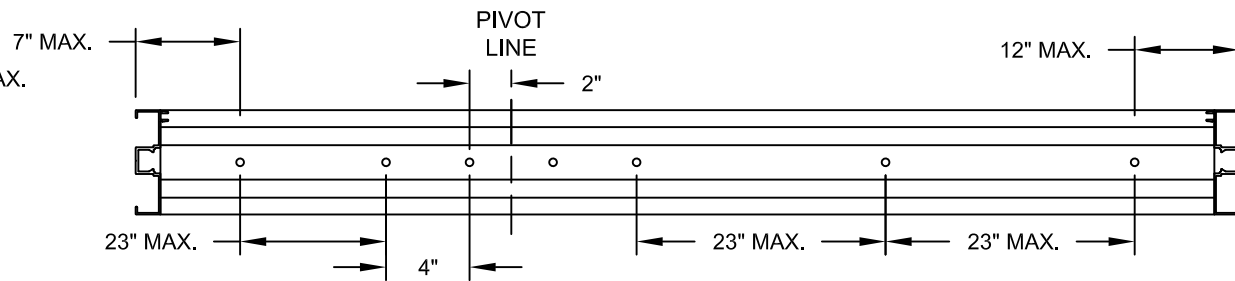
HEAD ANCHOR LAYOUT WITH 3 ANCHORS @ PIVOT LINE



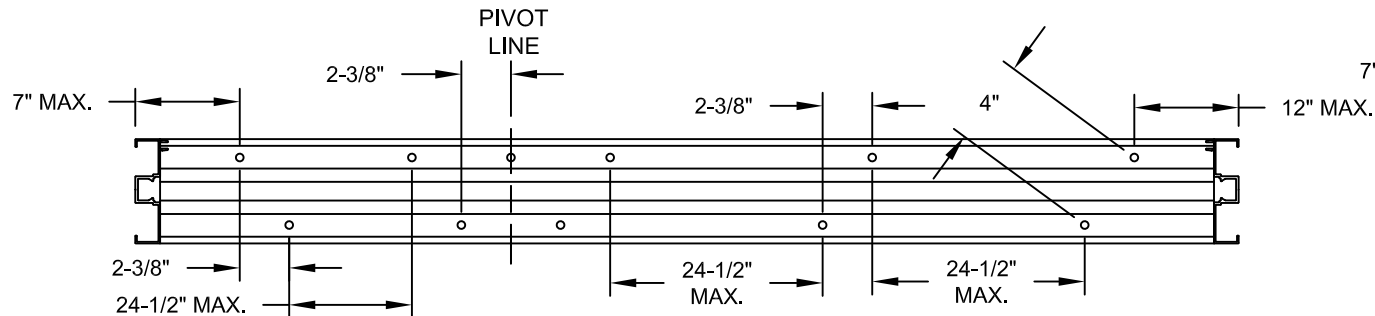
SILL ANCHOR LAYOUT WITH 3 ANCHORS @ PIVOT LINE



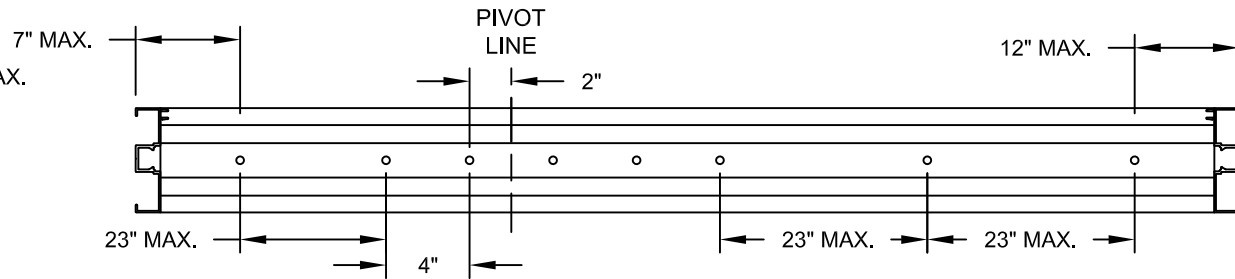
HEAD ANCHOR LAYOUT WITH 4 ANCHORS @ PIVOT LINE



SILL ANCHOR LAYOUT WITH 4 ANCHORS @ PIVOT LINE



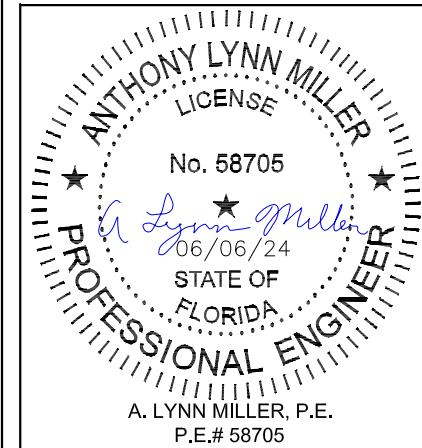
HEAD ANCHOR LAYOUT WITH 5 ANCHORS @ PIVOT LINE



SILL ANCHOR LAYOUT WITH 5 ANCHORS @ PIVOT LINE

- NOTES:
- 1) ANCHOR PATTERN MAY BE MIRRORED ABOUT THE CENTERLINE OF THE FRAME HEAD OR CENTERLINE OF EACH CLUSTER.
 - 2) 7" & 12" END DISTANCES INCLUDE THE JAMB WIDTH AND IS MEASURED TO THE OUTER EDGE OF THE FRAME.
 - 3) TYPICAL ANCHOR O.C. DIMENSIONS SHOWN.

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PV9998A		HEAD & SILL ANCHOR LAYOUT		13 OF 14		Sheet		DWG	
Title		Desc.		Series		Title		Series	



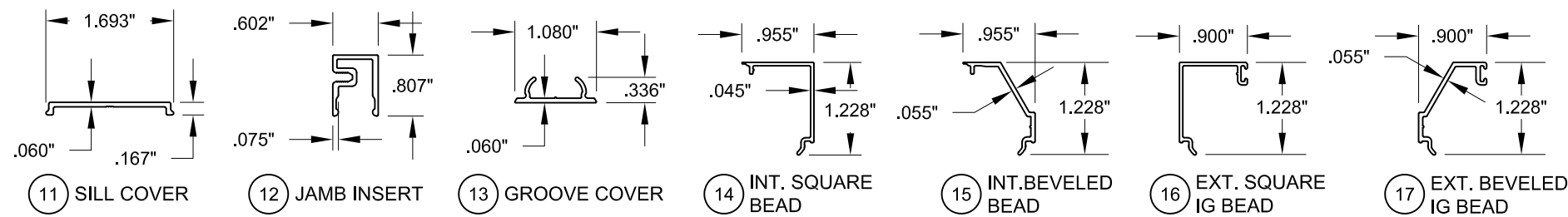
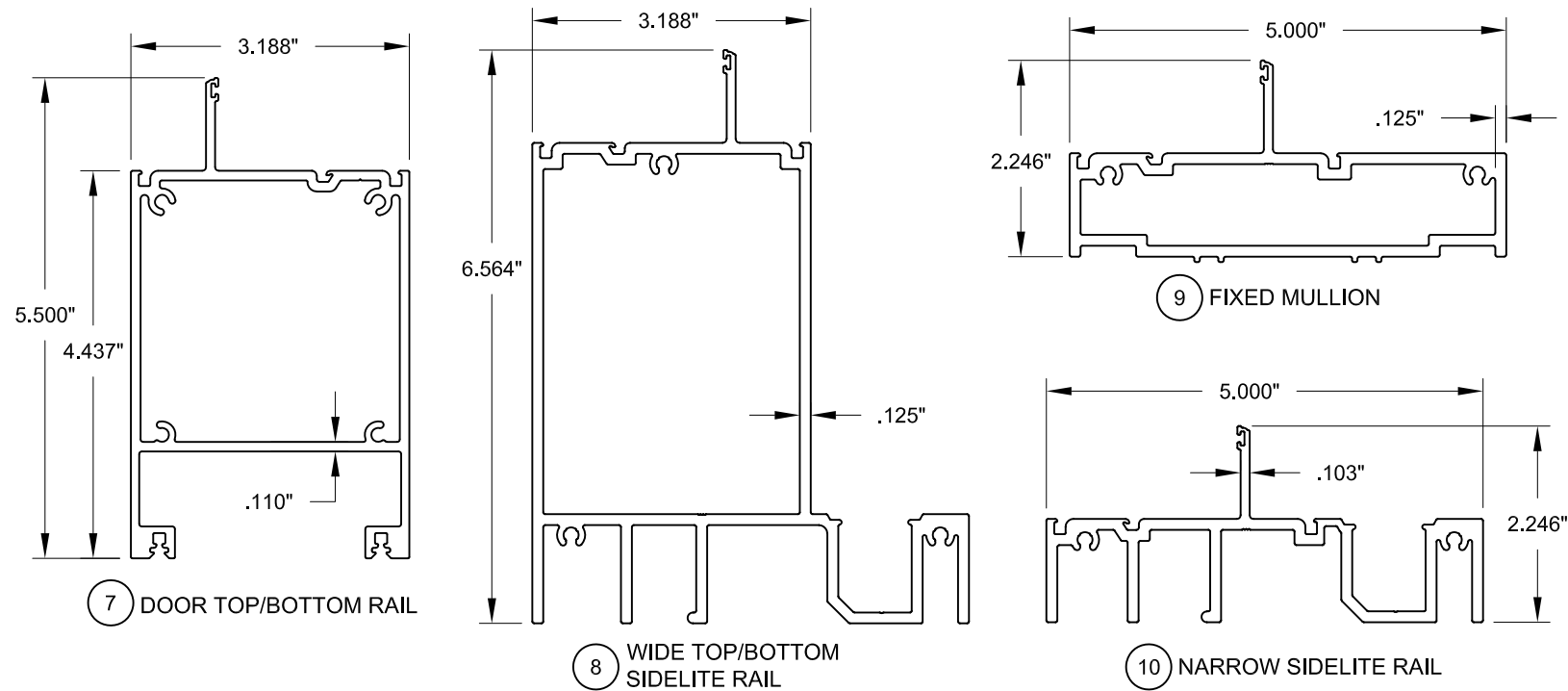
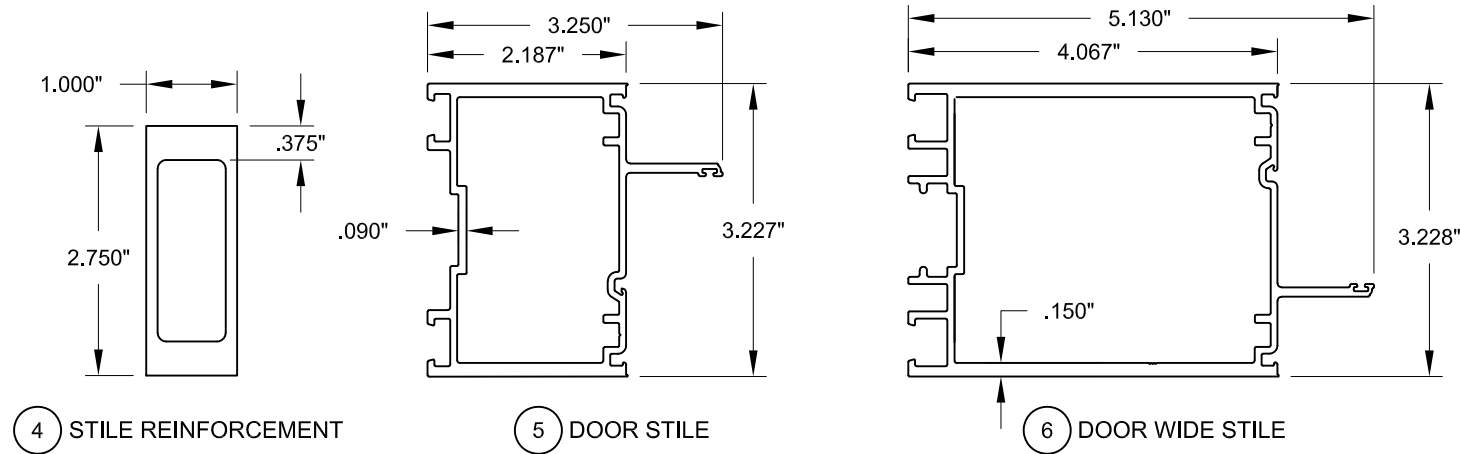
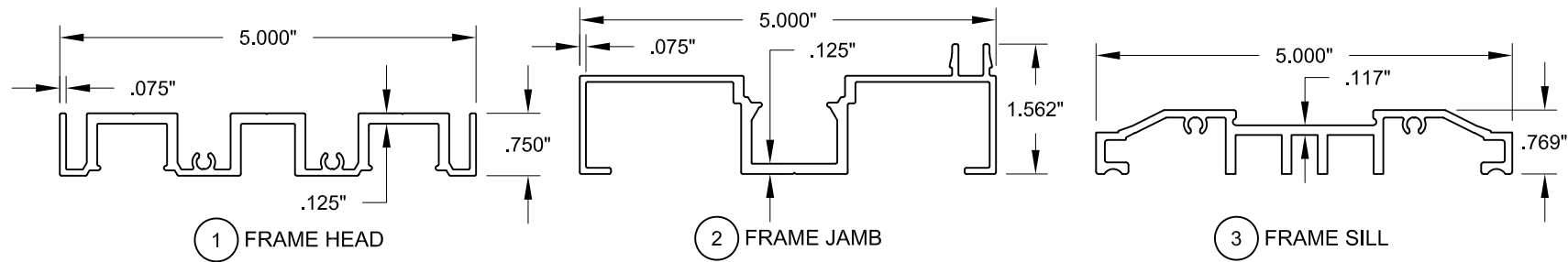


TABLE 10:

Item	Part #	Description	Mat.
1	23001	Frame Head	6063-T6
2	23002	Frame Jamb	6063-T6
3	23003	Frame Sill	6063-T6
4	66607	Stile Reinforcement	6063-T6
5	21010	Door Stile	6063-T6
6	23026	Door Wide Stile	6063-T6
7	21009	Door Top/Bottom Rail	6063-T6
8	23027	Wide Top/Bottom Sidelite Rail	6063-T6
9	23007	Fixed Mullion	6063-T6
10	23006	Narrow Sidelite Rail	6063-T6
11	23004	Sill Cover	6063-T6
12	23008	Jamb Insert	6063-T6
13	21027	Groove Cover	6063-T6
14	21013	Interior Square Bead	6063-T6
15	21016	Interior Beveled Bead	6063-T6
16	21036	Exterior Square IG Bead	6063-T6
17	21015	Exterior Beveled IG Bead	6063-T6
20	11613	Impost	6063-T6
24	varies	Inner Handle	
25	varies	Outer Handle	
26		Top Pivot	SS
27		Bottom Pivot	SS
28		Bottom Block	
29	21042/15001	Pile Weatherstrip	
30	varies	Lock	
31		Keeper	SS
32		Strike	SS
33		Support Block	
34	23023/10517	Jamb Seal	
35		Top / Bottom Plate	SS
36		#8 x 3/4" Panhead, Ph. SMS	SS
37		#10 x 3/4" Panhead, Ph. SMS	SS
38		#12 x 1" Panhead, Ph. SMS	SS
40	21044/15010	Gasket	Vinyl
41	23021	Beading Bulb Weatherstrip	Vinyl
43	21045	Large Glazing Leg Weatherstrip	Vinyl
44	23021/E514	0.375" Bulb Weatherstrip	Polypropylene
48		Glass Setting Block	EPDM
49	varies	Dow-791, Dow-983 or RGS 7700	Silicone
50		Kommerling Kodispace 4SG TPS	varies
51		Quanex Super Spacer	varies
52		Metal IG Spacer	varies

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Series	PV9998A	14 OF 14	DWG No.
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EXTRUSIONS & BOM		By Drawn	JENS ROSOWSKI
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