

**FIGURE A**

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

**SERIES 650  
ALUMINUM OUTSWING ENTRANCE DOOR**

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEET 2.  
SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE SHEET 3 & 4.

LOWER VALUES FROM SIDELITE CAPACITY CHART OR DOOR CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOOR IS NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. DOOR MAY BE INSTALLED IN LOCATIONS WHERE THE OVERHANG LENGTH IS GREATER THAN OR EQUAL TO THE OVERHANG HEIGHT. (SEE FIGURE A)

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

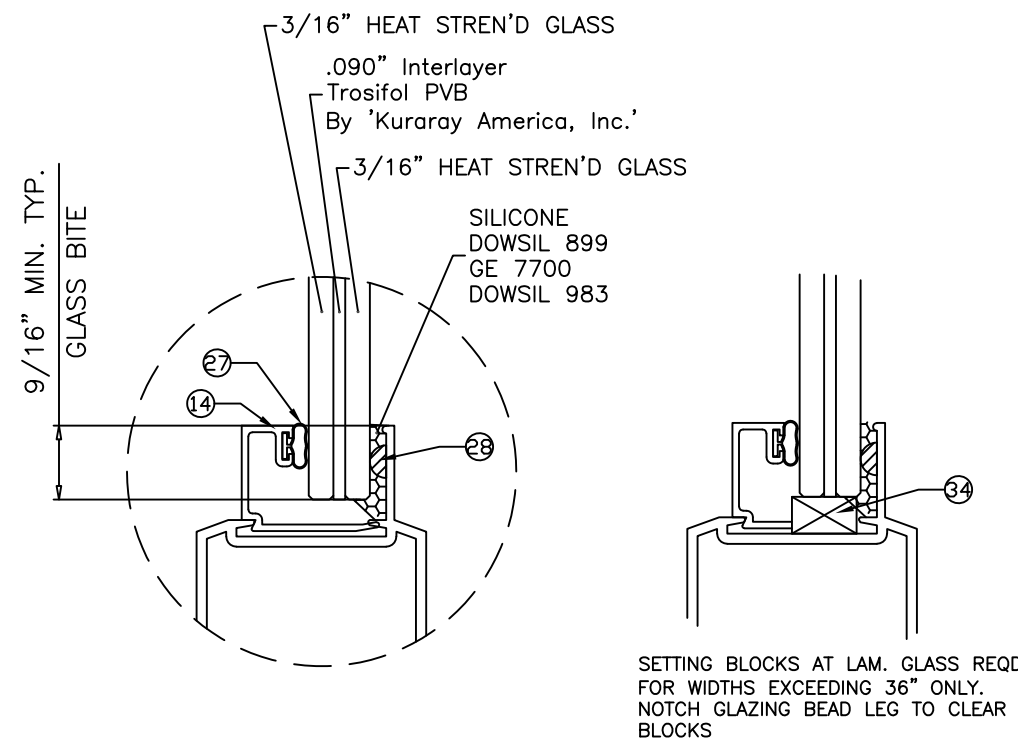
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL

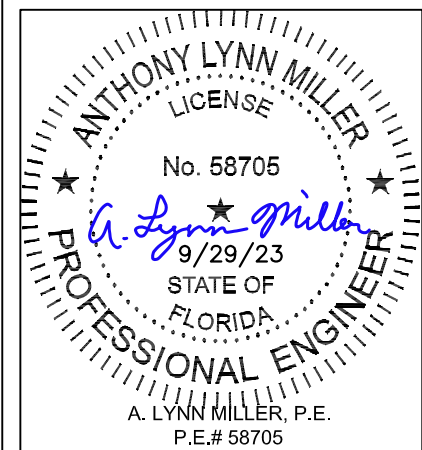
DESIGN LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



**GLAZING DETAIL**

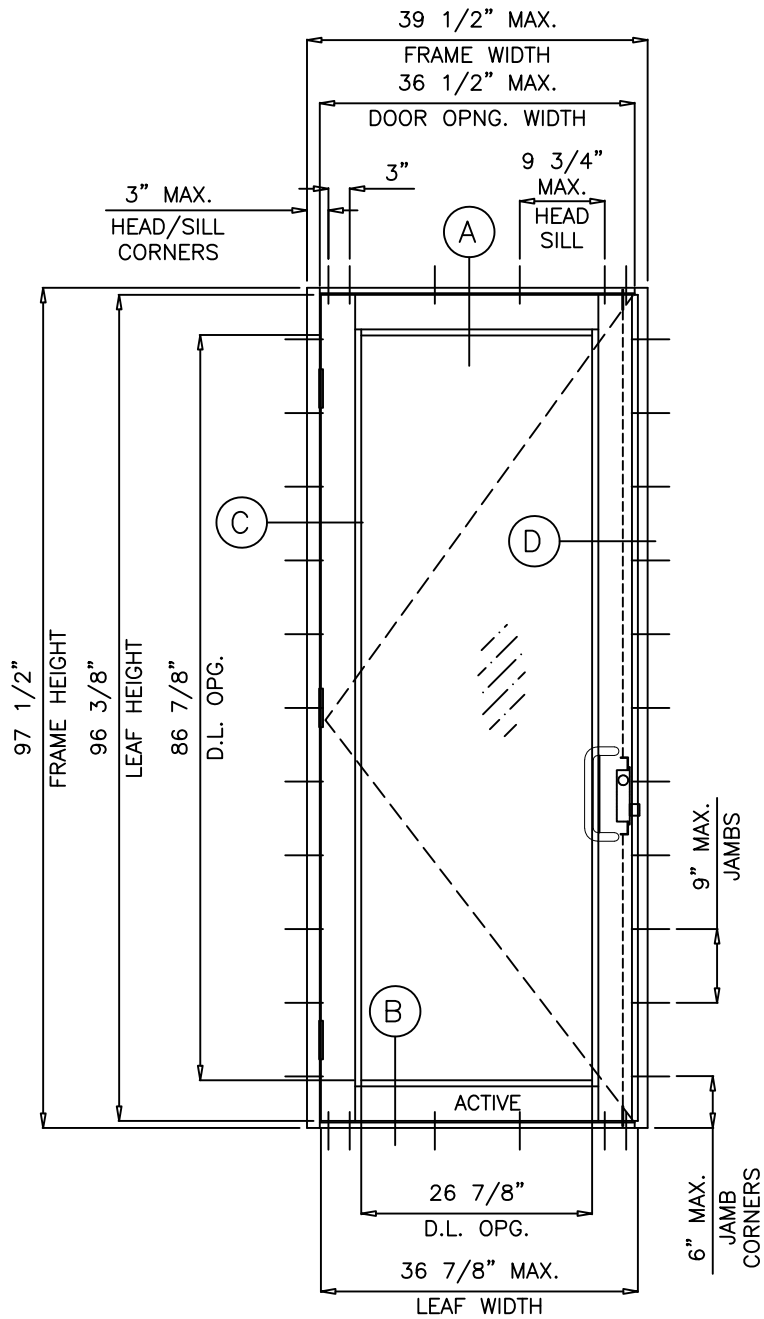
Revision:	REVISED TABLE
	FORMAT.
	ADDED DP
	TABLE
	ROUNDING AND
	ANCHOR HEAD
	TYPE NOTES.
	REVISED
	WATER RESIST.
	NOTE,
	REMOVED
	SILICONE AND
	BACKSTOP ON
	INSTALL DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	4/10/2022
		By	HONG C.
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES 650 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)	DWG No.	FD650FPA - LMI
		Sheet	1 OF 11
GENERAL INFORMATION & GLASS		Series	SERIES 650

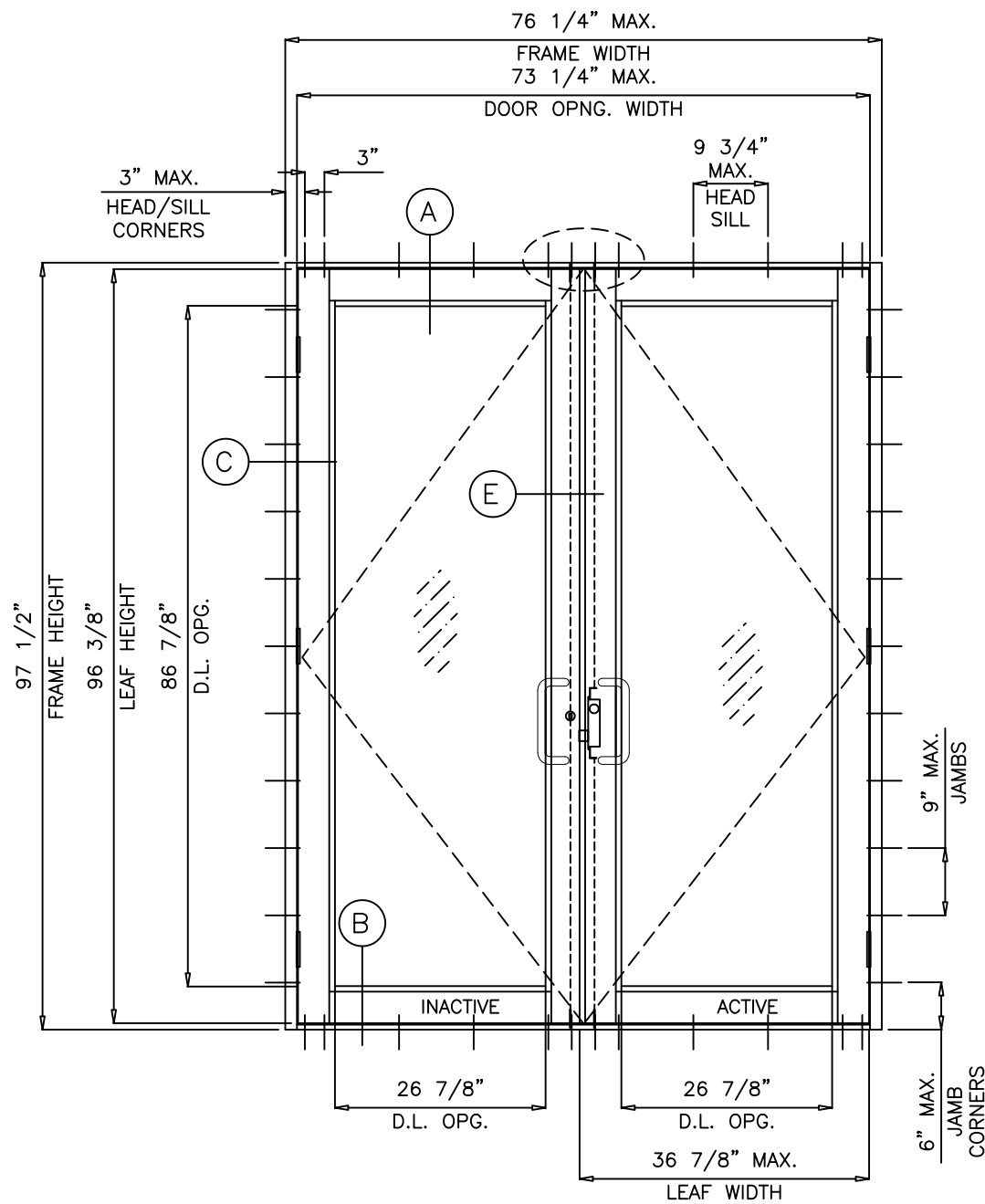


FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

Doors Load Capacity - PSF												
Laminated Glass			Frame Height (in.)									
Frame Width (in.) Single (X)	Frame Width (in.) Double (XX)	Leaf Width (in.)	82"		86"		92"		96"		97-1/2"	
35-1/2"	72-1/4"	32-7/8"	70.0	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0	73.6
37-1/2"	74-1/4"	34-7/8"	70.0	75.0	70.0	75.0	70.0	75.0	70.0	73.3	70.0	71.9
39-1/2"	76-1/4"	36-7/8"	70.0	75.0	70.0	75.0	70.0	74.4	70.0	71.3	70.0	70.2



TYPICAL ELEVATION  
(X)



TYPICAL ELEVATION  
(XX)

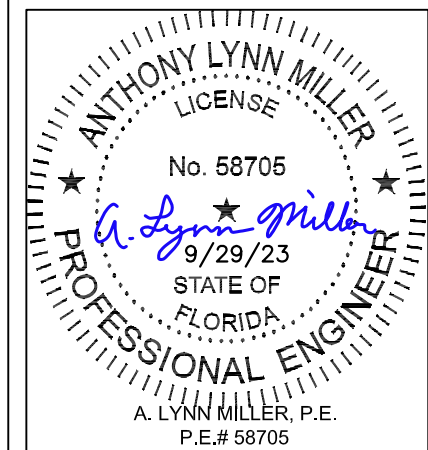
GLASS D.L.O. DIMS.  
 D.L.O. HEIGHT = FRAME HEIGHT - 10.625"  
 D.L.O. WIDTH (X DOORS) = FRAME WIDTH - 12.625"  
 D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH - 22.50")/2

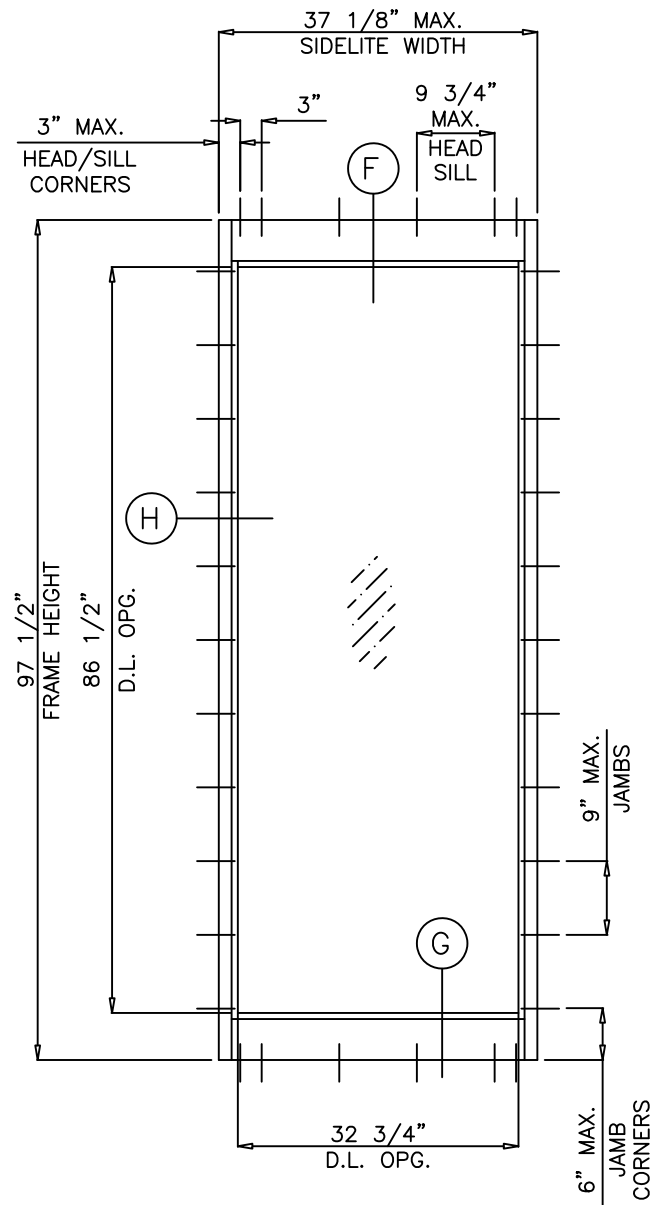
NOTE:  
 EGRESS REQUIREMENTS TO BE REVIEWED  
 BY BUILDING OFFICIAL

NOTE:  
 GLASS CAPACITIES ON THIS SHEET ARE  
 BASED ON ASTM E1300-09 (3 SEC. GUSTS)

Revision:  
 REVISED TABLE  
 FORMAT.  
 ADDED DP  
 TABLE  
 ROUNDING AND  
 ANCHOR HEAD  
 TYPE NOTES.  
 REVISED  
 WATER RESIST.  
 NOTE,  
 REMOVED  
 SILICONE AND  
 BACKSTOP ON  
 INSTALL DETAIL

<p>ECO WINDOW SYSTEMS, LLC.        8602 N.W. 80th ST. MEDLEY, FL 33166        TEL: (305) 885-5299 FAX: (305) 885-5902</p>	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date 4/10/2022	Revis A
	SERIES 650 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)	Designer HONG C.	DWG No. FD650FPA - LMI	Sheet 2 OF 11
X & XX ELEVATIONS & DOORS DP CHART	Title	Series Desc.	Series	Desc.

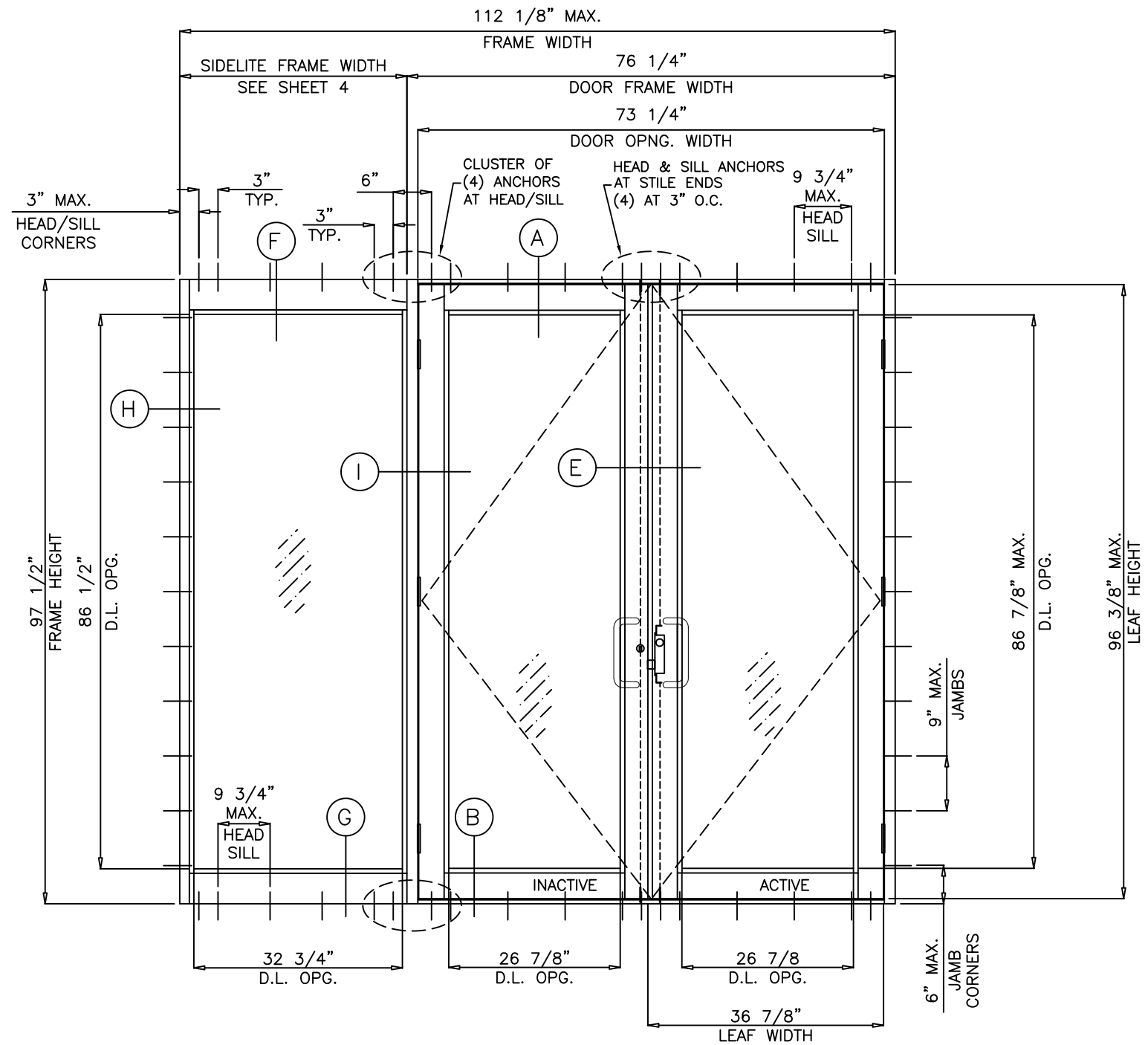




TYPICAL ELEVATION

(O)

STAND ALONE SINGLE SIDELITE



TYPICAL ELEVATION

(O-XX)

TESTED UNIT

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT - 11.000"

D.L.O. WIDTH (SIDELITE) = FRAME WIDTH - 4.438"

NOTE:

FOR DOORS CAPACITIES SEE SHEET 2.

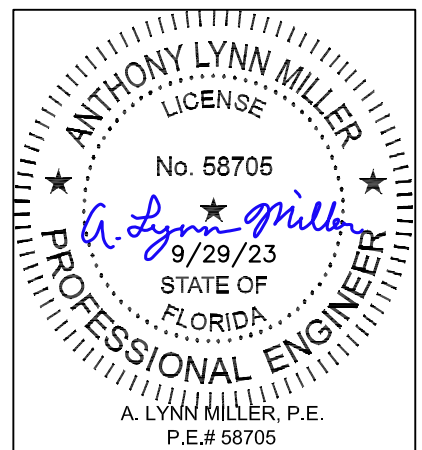
FOR SIDELITE CAPACITIES SEE SHEET 4.

LOWER VALUES FROM DOOR CAPACITY CHARTS OR DOOR/SIDELITE

MULLION CHART WILL APPLY TO ENTIRE SYSTEM.

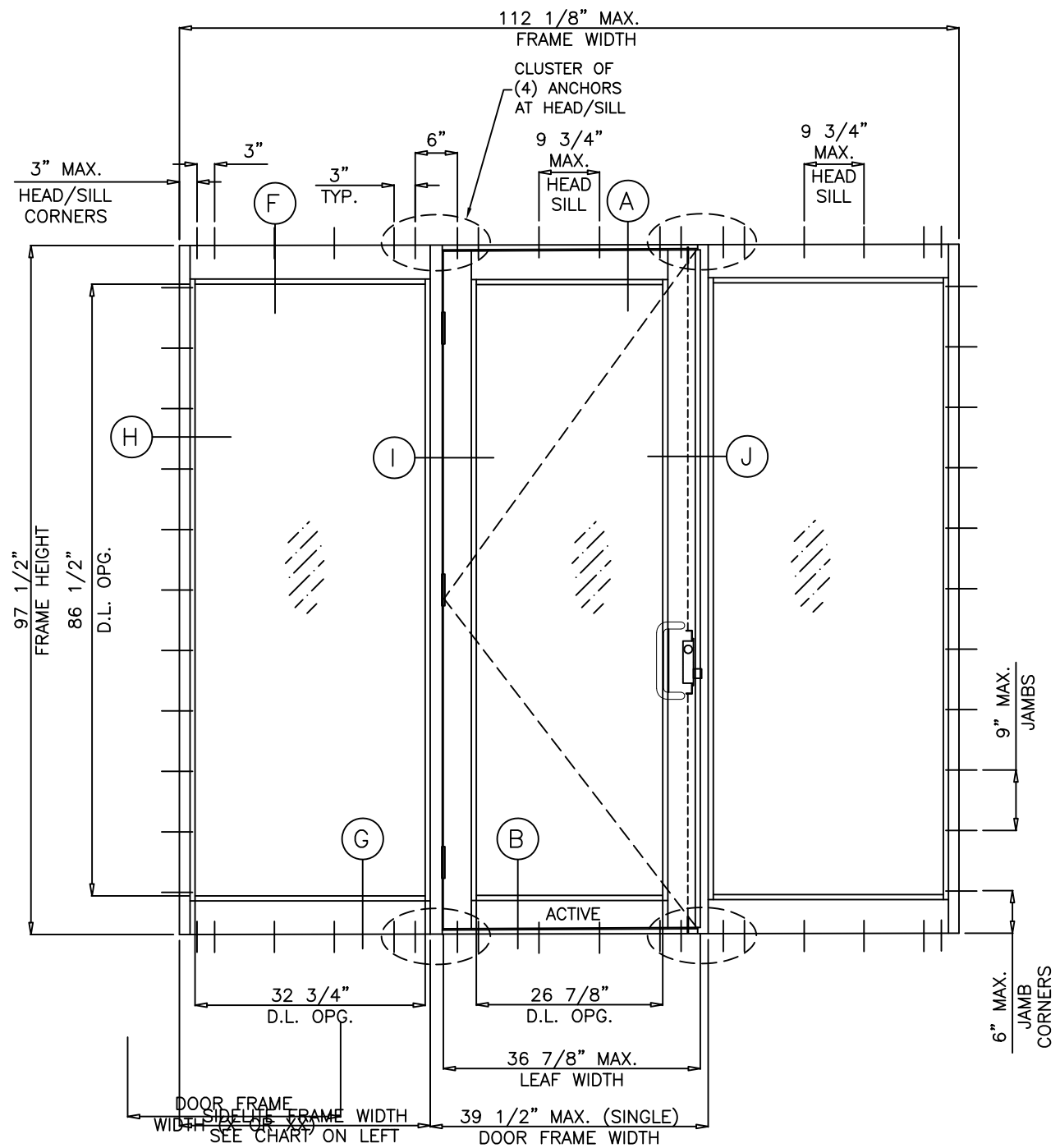
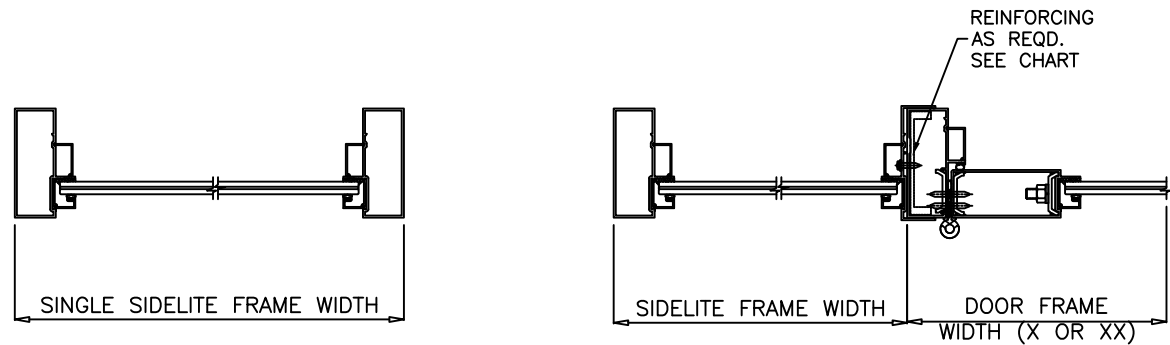
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ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	Drawn HONG C.	DWG No. FD650FPA - LMI	Revised	A
			O & OXX ELEVATIONS	Sheet 3 OF 11



Design Load Capacity - PSF											
Stand Alone Single Sidelites											
Without Reinforcement		Sidelite Frame Height (in.)									
		82"	86"	92"	96"	97-1/2"					
Sidelite Frame Width (in.)	24"	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-72.7
	30"	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+69.4	-69.4	+66.3	-66.3
	36"	+70.0	-75.0	+70.0	-75.0	+70.0	-72.5	+63.8	-63.8	+60.9	-60.9
	37"	+70.0	-75.0	+70.0	-75.0	+70.0	-71.5				
	40"	+63.3	-63.3	+63.3	-63.3						
	42"	+60.2	-60.2								

Design Load Capacity - PSF											
Sidelites with Single or Double Leaf Doors											
(SEE NOTE BELOW)											
Sidelite Frame Width (in.)	Reinforcement	Sidelite Frame Height (in.)									
		82"	86"	92"	96"	97-1/2"					
24"	w/o Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-72.7
	w/ Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0
30"	w/o Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+69.4	-69.4	+66.3	-66.3
	w/ Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0
36"	w/o Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-72.5	+63.8	-63.8	+60.9	-60.9
	w/ Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0
37"	w/o Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-71.5				
	w/ Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0				
40"	w/o Reinf.	+63.3	-63.3	+63.3	-63.3						
	w/ Reinf.	+63.3	-63.3	+63.3	-63.3						
42"	w/o Reinf.	+60.2	-60.2								
	w/ Reinf.	+60.2	-60.2								



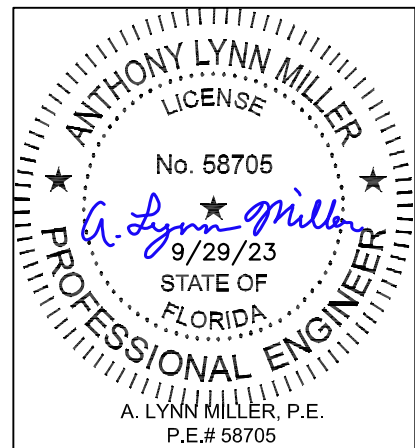
(OXO)  
HINGED LEFT SHOWN  
HINGED RIGHT SIMILAR

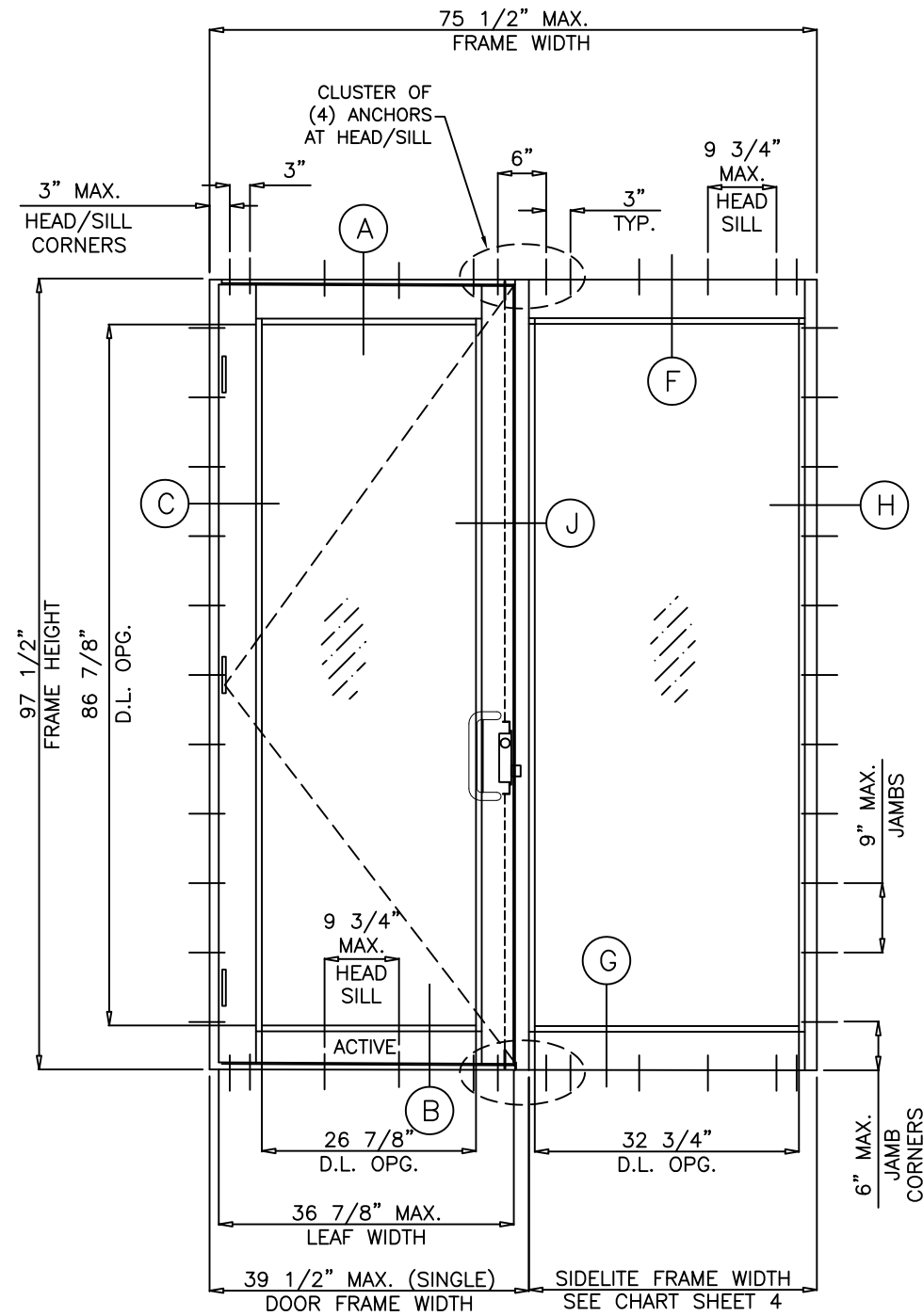
NOTE:  
FOR DOORS CAPACITIES SEE SHEET 2.  
FOR SIDELITE CAPACITIES SEE ABOVE.  
LOWER VALUES FROM DOOR CAPACITY CHARTS OR SIDELITE CHART  
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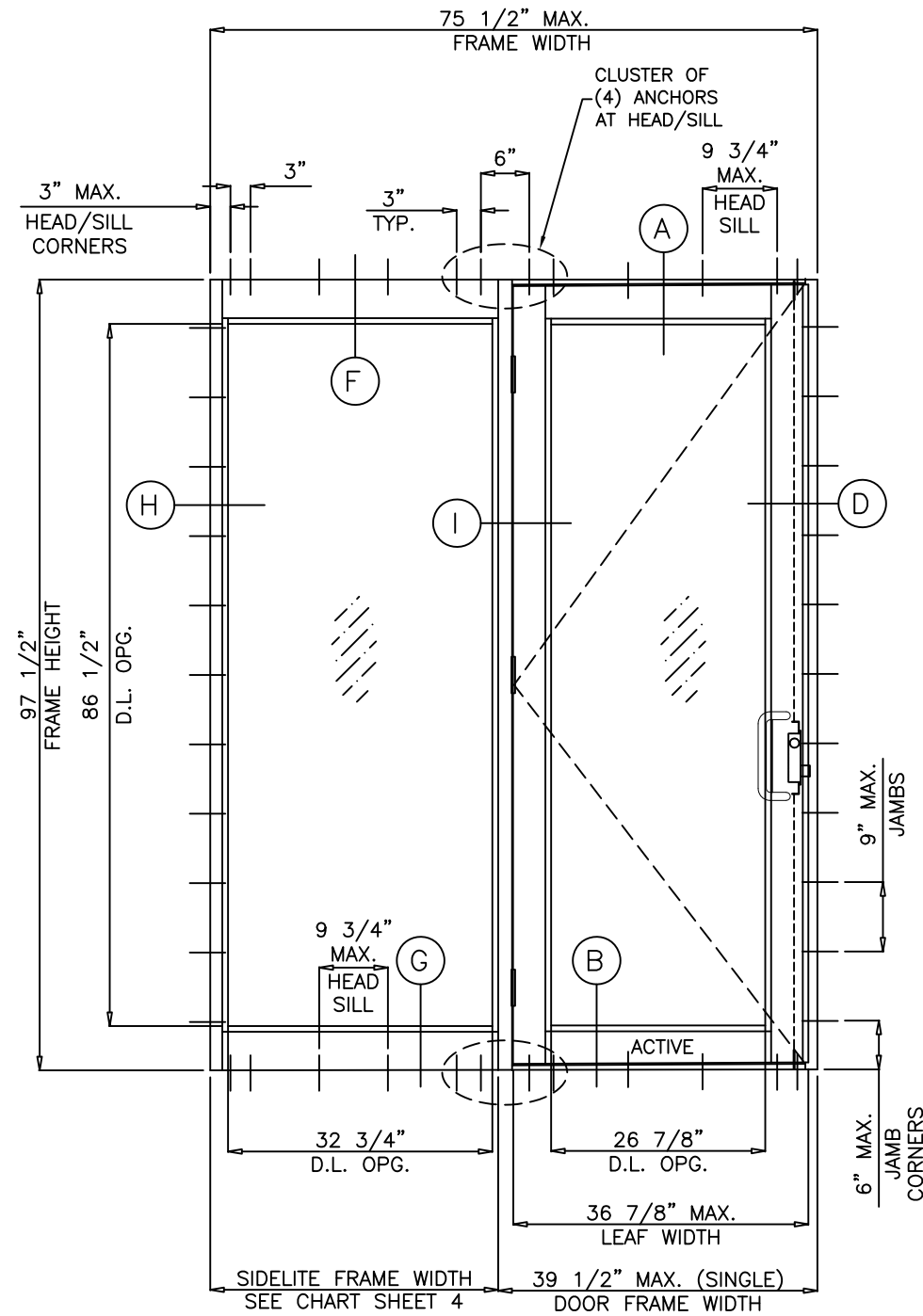
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SERIES 650	Sheet	4 OF 11	DWG No.	FD650FPA - LMI	





(XO W/ LOCK STILE TO MULL)  
OX SIMILAR



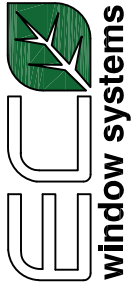
(OX W/ HINGE STILE TO MULL)  
XO SIMILAR

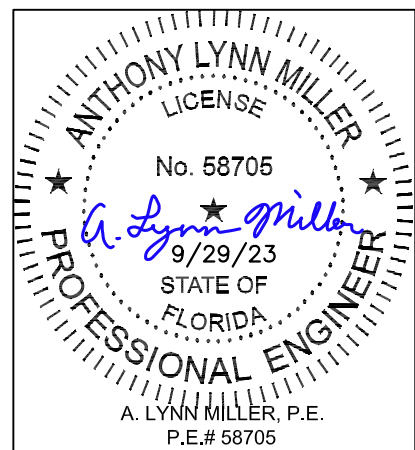
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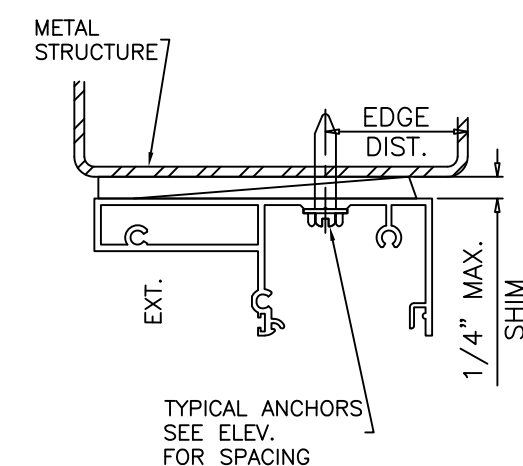
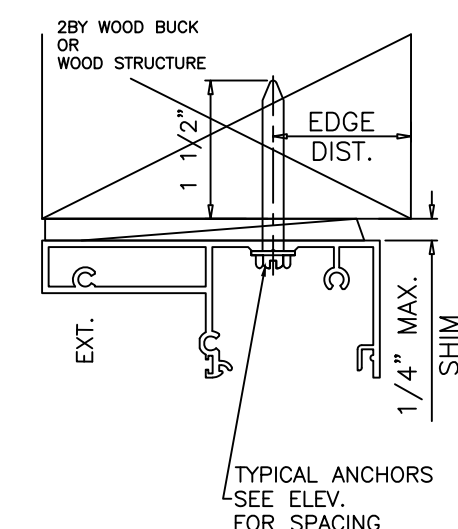
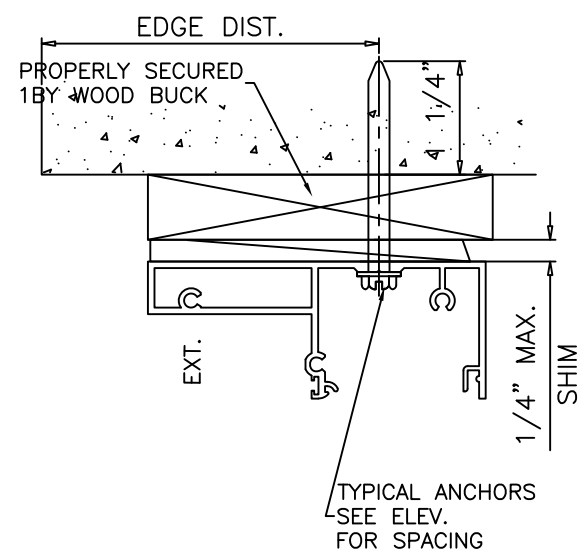
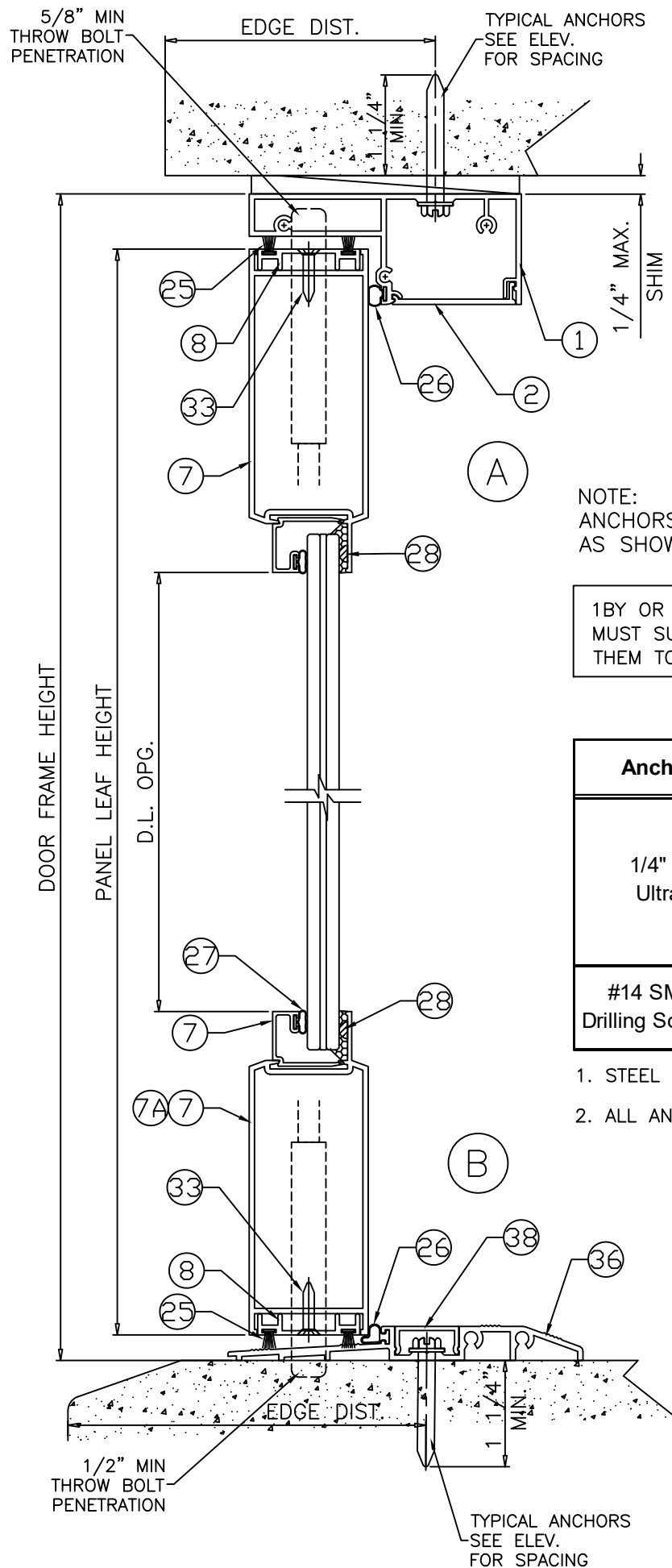
FOR SINGLE OR DOUBLE DOORS CAPACITY SEE SHEET 2.  
FOR SIDELITE MULLION CAPACITY SEE CHART ON SHEET 4.  
LOWER VALUES FROM DOOR CAPACITY CHARTS OR DOOR/SIDELITE  
MULLION CHART WILL APPLY TO ENTIRE SYSTEM.

FOR STAND ALONE SINGLE SIDELITE CAPACITY SEE CHART SHEET 4.

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	DRAWN BY HONG C.		Revised
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES 650 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.) XO/OX ELEVATIONS	DWG No.	FD650FPA - LMI
		Sheet	5 OF 11
Title		Series Desc.	A





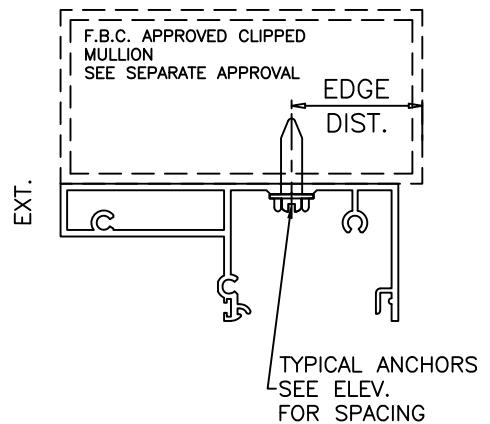
NOTE:  
ANCHORS MUST GO THRU ANCHOR PADS  
AS SHOWN ON FRAME MEMBERS

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.'  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER  
THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" DeWalt UltraCon +	All	Southern Pine (SG = 0.55)	1"	1-1/2"
	All	Thru 1BY Buck into Concrete (min. 3 ksi)	2-1/2"	1-1/4"
	Jambs	Thru 1BY Buck into Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
	All	Concrete (min. 3ksi)	2-1/2"	1-1/4"
	Jambs	Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
#14 SMS or Self Drilling Screws (Gr. 2)	All	F.B.C Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
	Head/Jambs	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	Head/Jambs	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness

1. STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
2. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE



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ECO window systems  
ECO WINDOW SYSTEMS, LLC.  
8602 N.W. 80th ST. MEDLEY, FL 33166  
TEL: (305) 885-5299 FAX: (305) 885-5902

REGISTRATION #29296

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

SERIES 650 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)

DOOR VERTICAL SECTION DETAILS & ANCHORS

SERIES 650

6 OF 11

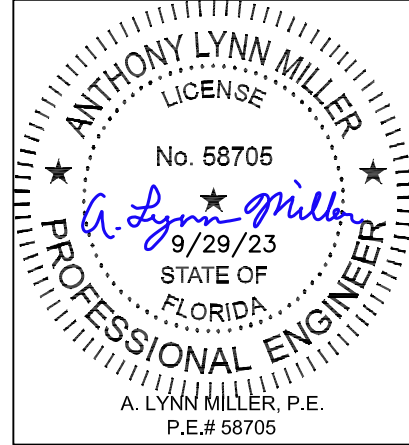
FD650FPA - LMI

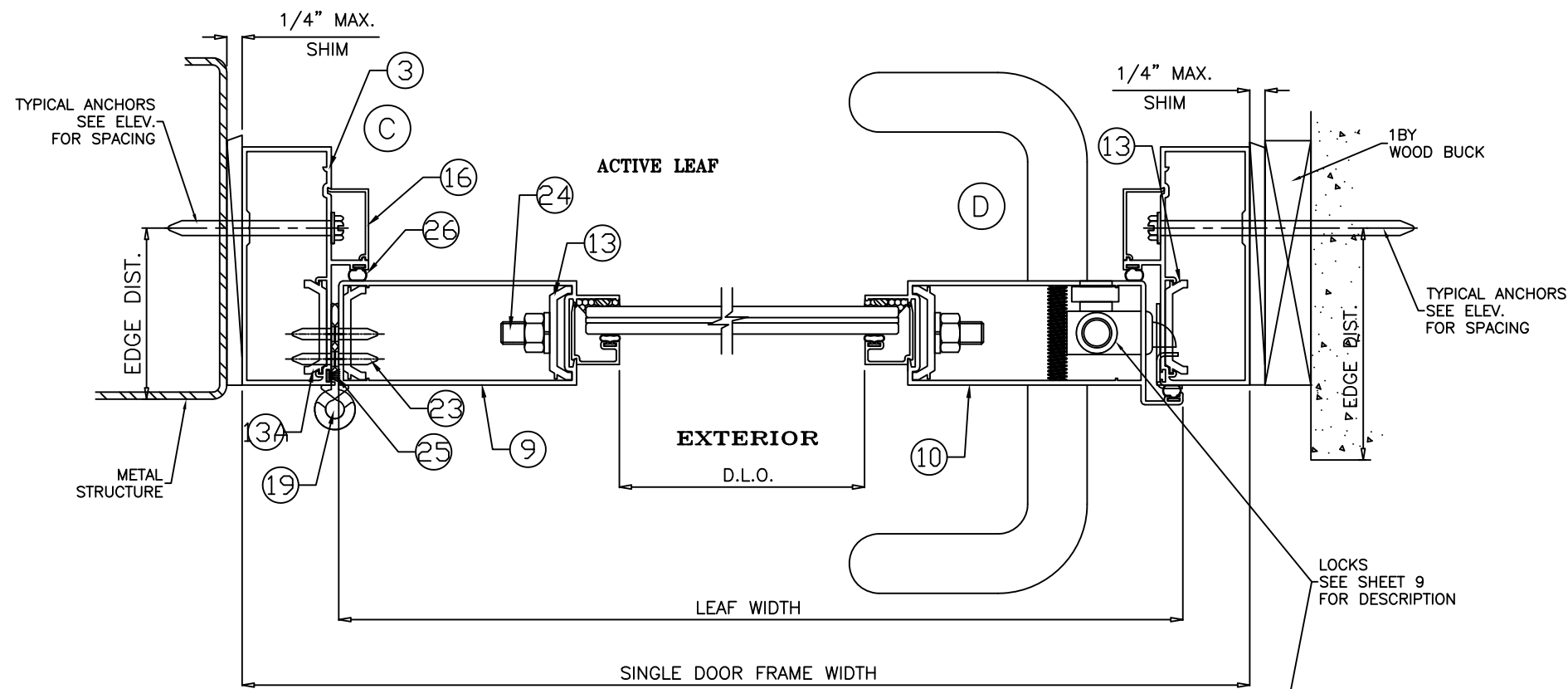
HONG C.

4/10/2022

Revised Table

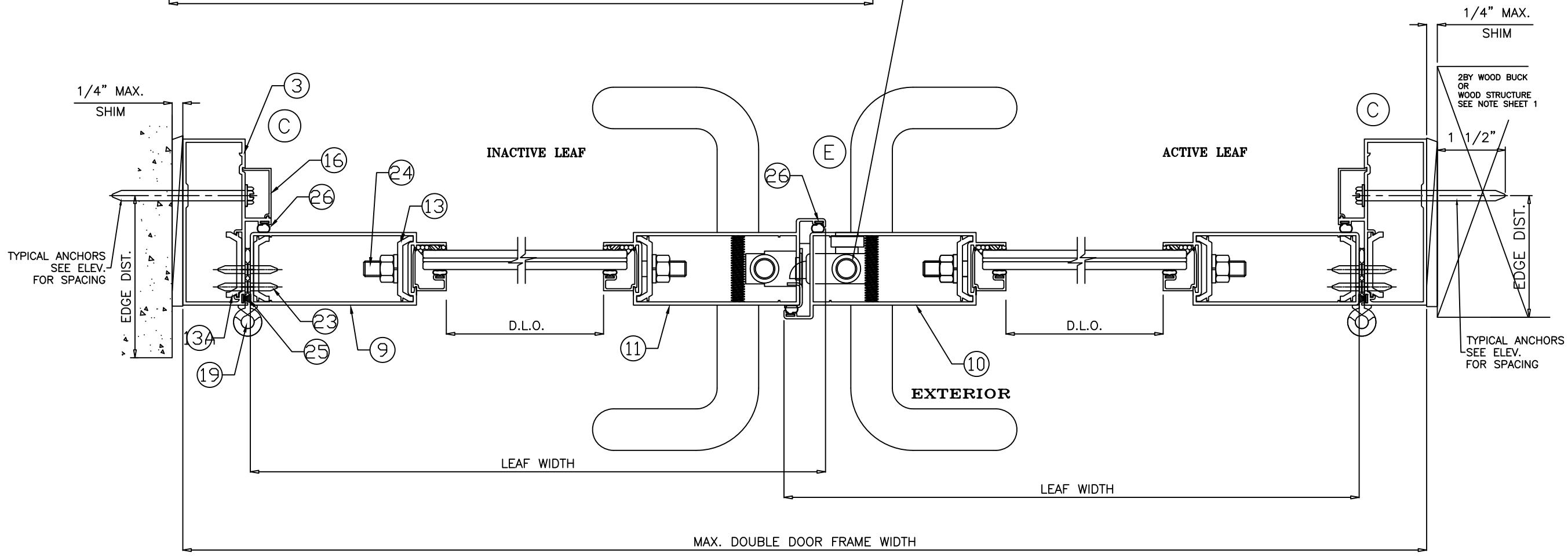
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NOTE:  
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AS SHOWN ON FRAME MEMBERS

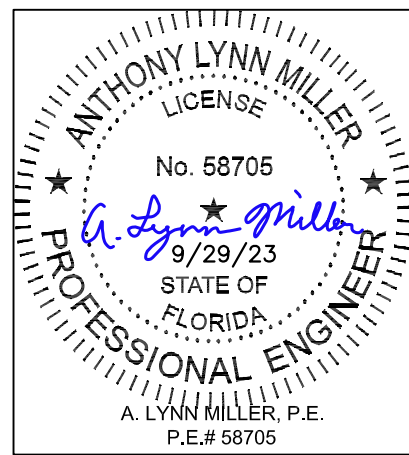
LOCKS  
SEE SHEET 9  
FOR DESCRIPTION

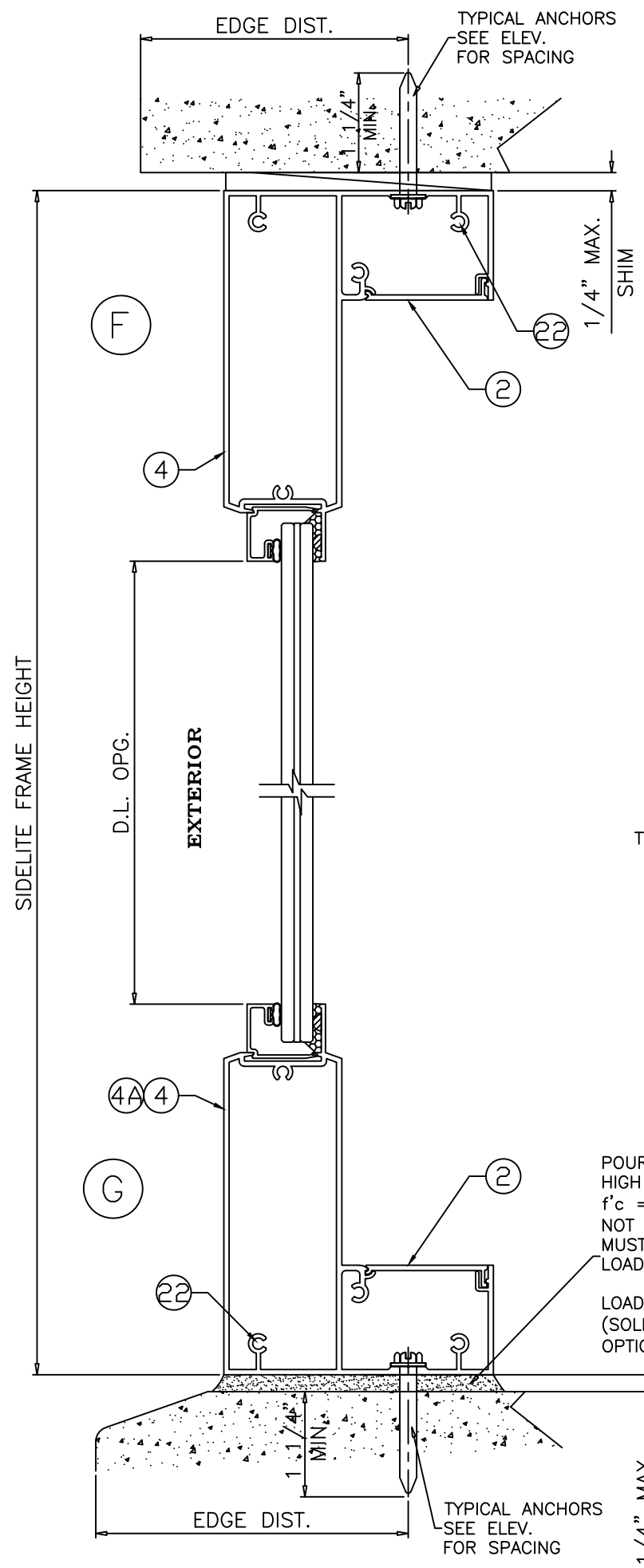


Revision:

REVISED TABLE FORMAT.	ADDED DP TABLE	ROUNDING AND ANCHOR HEAD TYPE NOTES.	REVISED WATER RESIST. NOTE,	REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL
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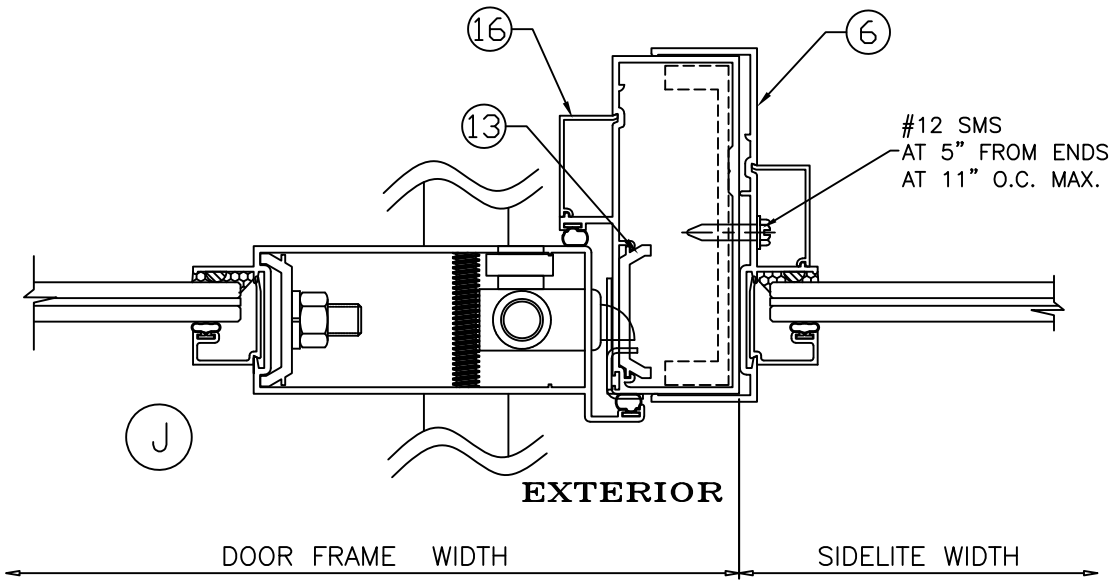
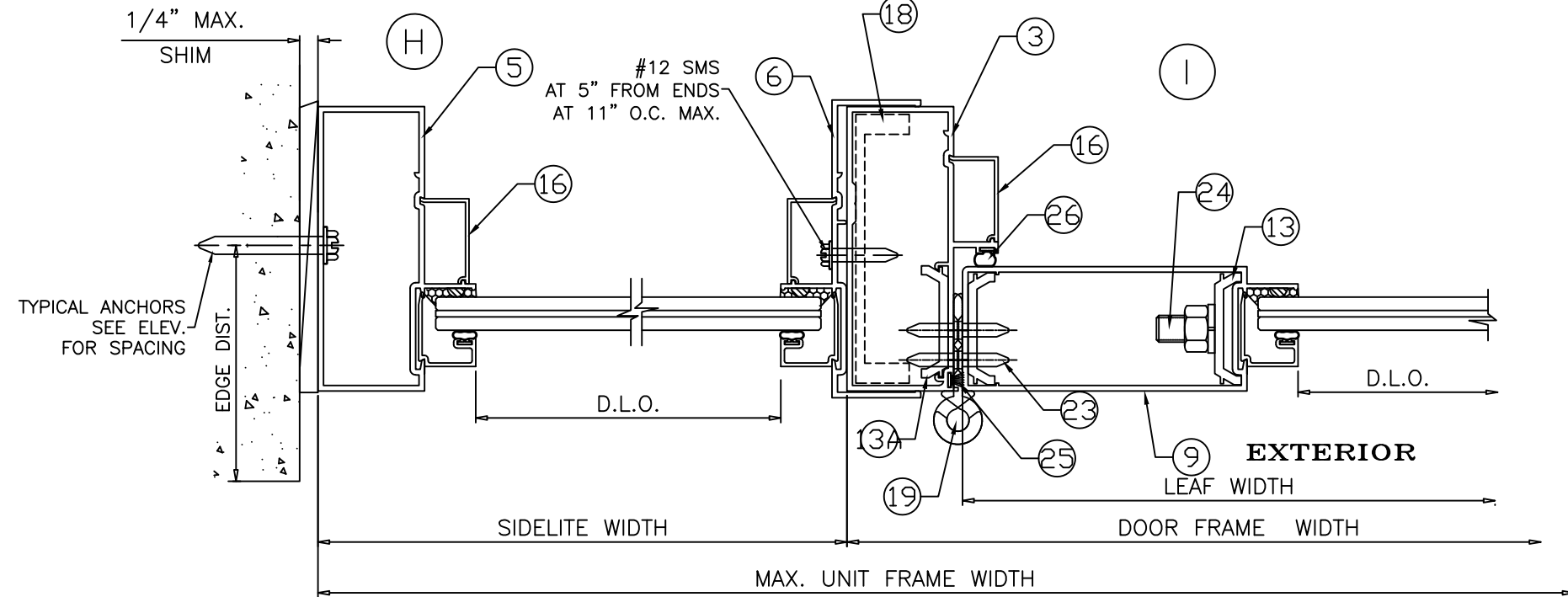
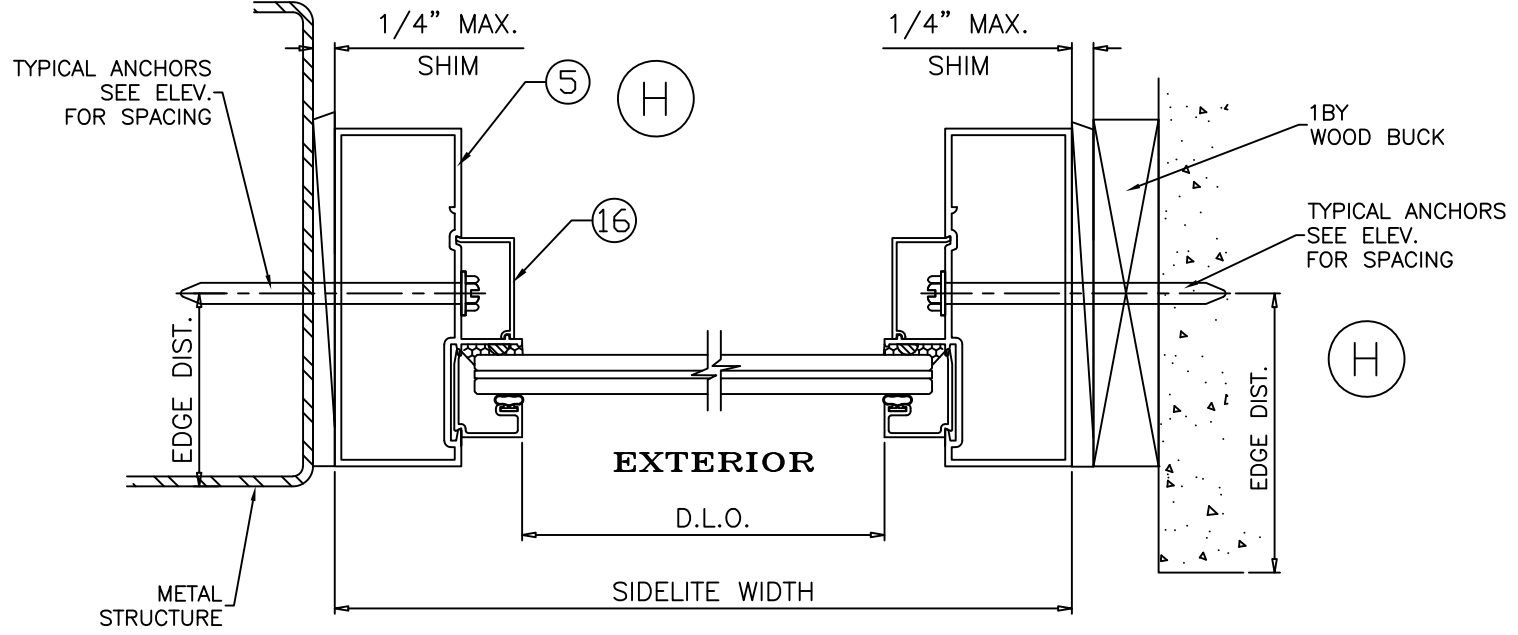
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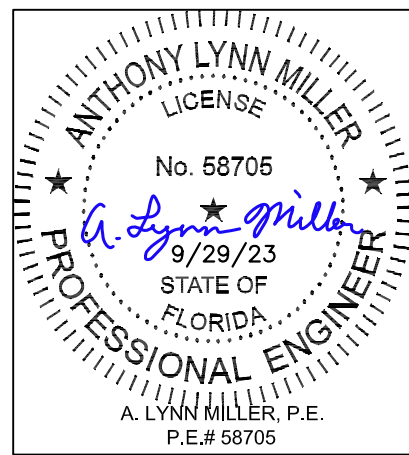
POURED & HARDENED HIGH STRENGTH GROUT  $f'_c = 5000$  PSI MIN. NOT BY "ECO WINDOWS" MUST TRANSFER SHEAR LOADS TO STRUCTURE

LOAD BEARING (SOLID SHIMS OPTIONAL TO GROUT)



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SERIES 650 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)		Title		FD650FPA - LMI		Sheet
SIDELITE VERTICAL AND HORIZONTAL DETAILS		Desc.		8 OF 11		Series
SERIES 650		Title		8 OF 11		Sheet





**LOCKS:**

**ACTIVE LEAF:**

3 POINT LOCK SYSTEM BY 'REGENT' AT 40-1/2" FROM BOTTOM WITH CONCEALED VERTICAL RODS  
6 PLY BOLT ENGAGING AT LOCK STILE OR FRAME JAMB AND SHOOT BOLTS ENGAGING AT HEAD AND SILL  
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR FASTENED TO ACTIVE LEAF LOCK STILE WITH  
(2) #8 X 1/2" FH SMS

**INACTIVE LEAF:**

2 POINT LOCK SYSTEM SERIES MS1880, MS1881 BY 'ADAMS RITE' AT 42-1/2" FROM BOTTOM WITH VERTICAL CONCEALED RODS AND SHOOT BOLTS ENGAGING AT HEAD AND SILL  
THUMB TURN ON INTERIOR FASTENED TO INACTIVE LEAF LOCK STILE WITH  
(2) 6-32 X 5/16" PH MACHINE SCREWS

**DOOR HANDLES:**

SURFACE MOUNTED METALLIC HANDLES AT 42-1/2" FROM BOTTOM FASTENED TO ACTIVE AND INACTIVE LEAF LOCK STILES WITH  
(2) 1/4-20 X 1-13/16" CONE HEAD MS  
(4) 1/4-20 X 5/16" SET SCREWS

**HINGES:**

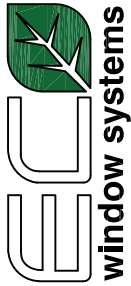
7-1/2" LONG ALUMINUM BUTT HINGES BY 'SULLIVAN & ASSOC.' AT 11" FROM TOP AND BOTTOM AND ONE AT MIDSPAN OF LEAF FASTENED TO FRAME WITH  
(6) #10 X 3/4" FH SELF DRILLING SCREWS  
FASTENED TO LEAF WITH  
(5) #10 X 3/4" FH SELF DRILLING SCREWS

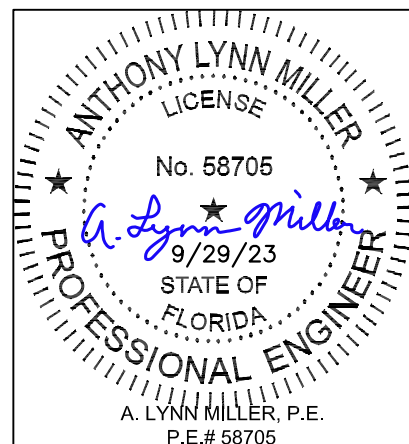
**SEALANT:**

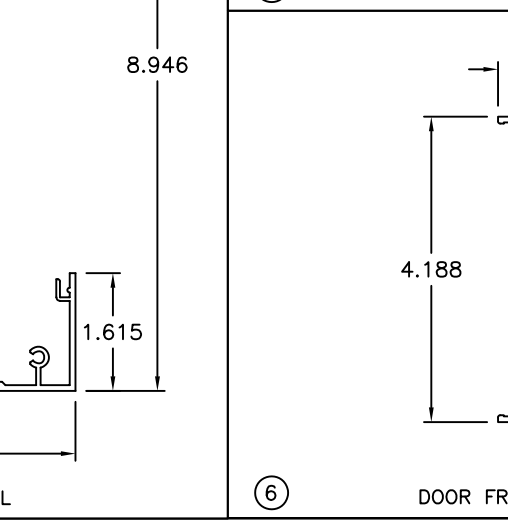
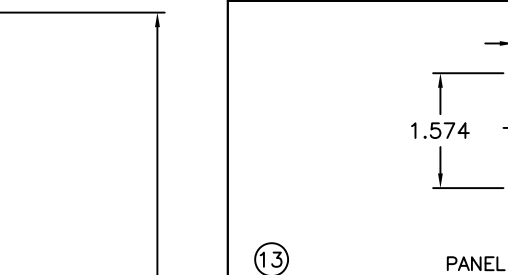
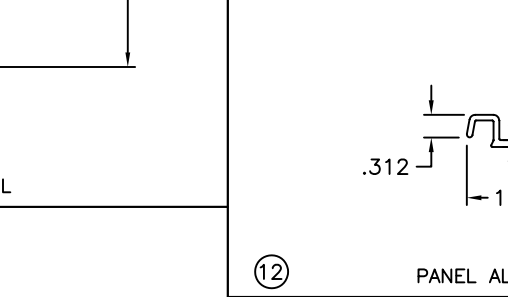
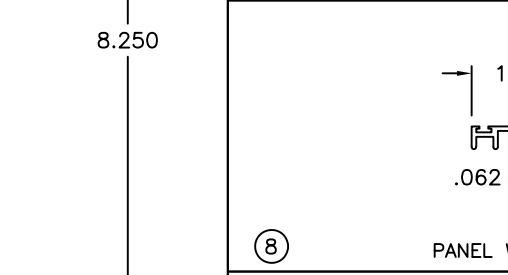
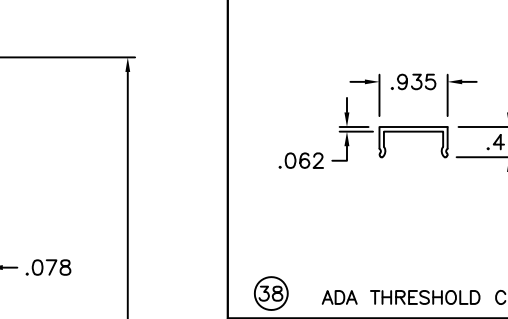
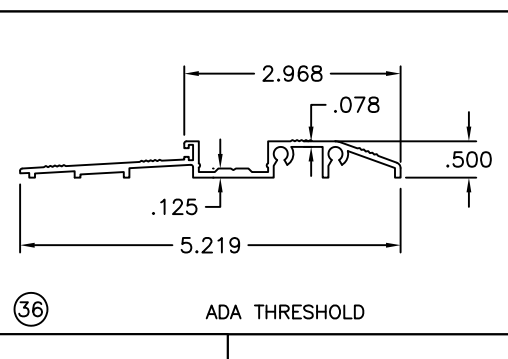
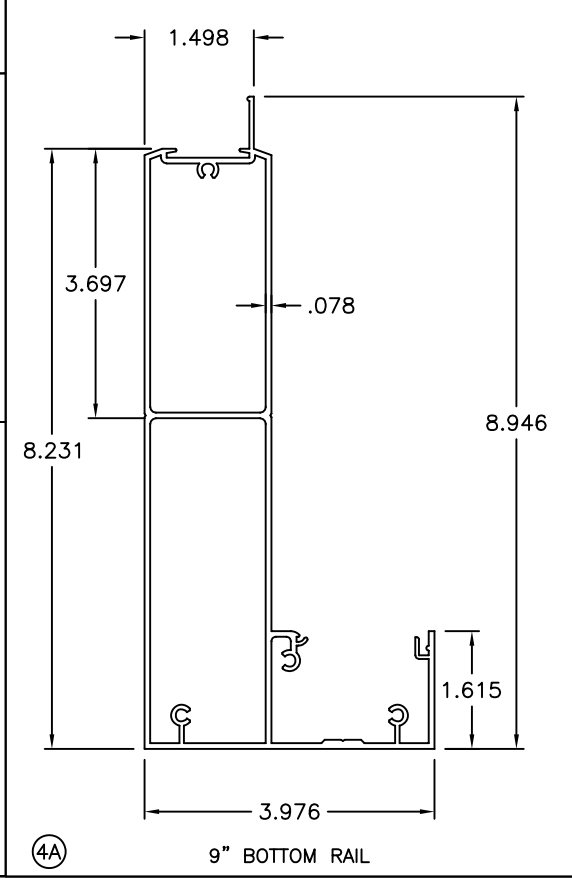
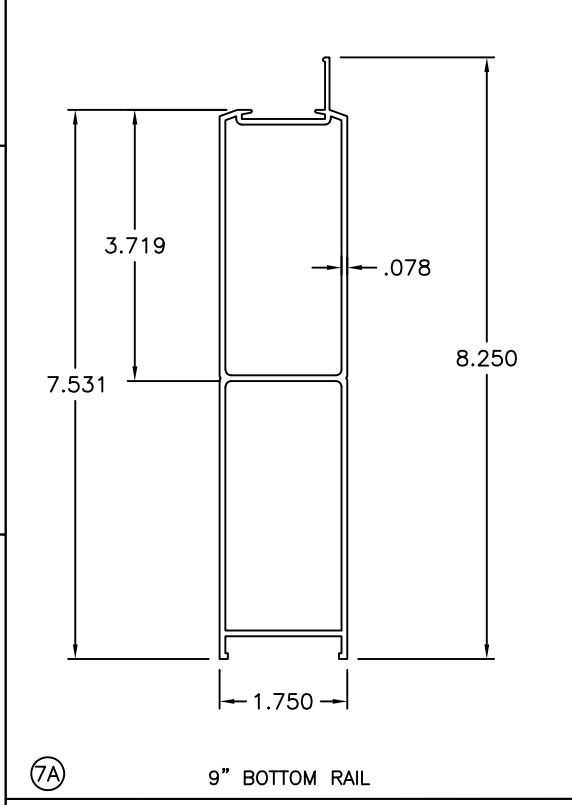
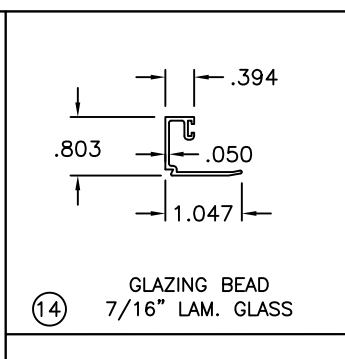
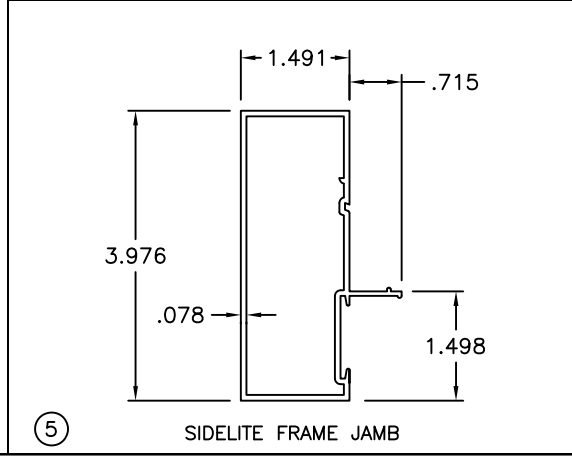
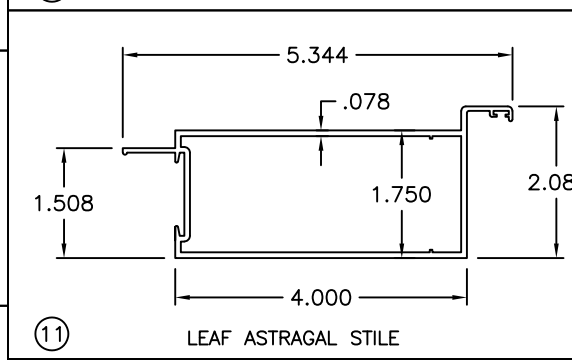
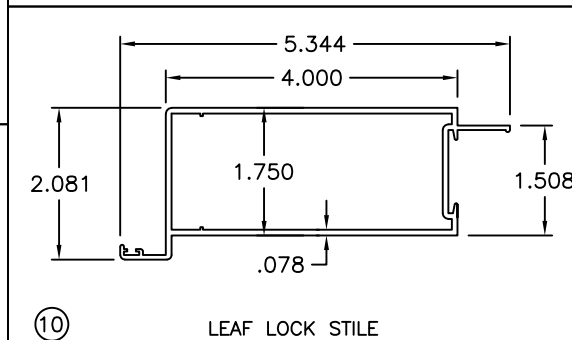
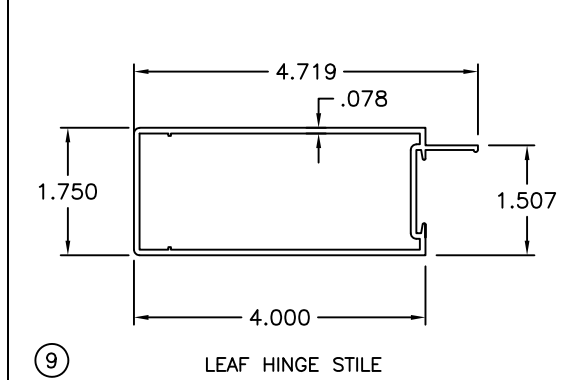
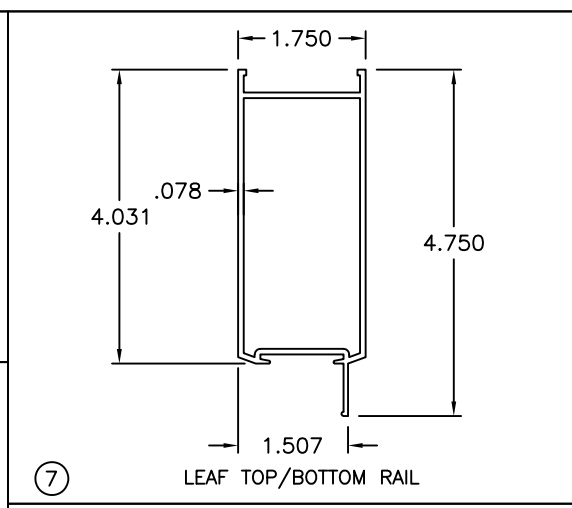
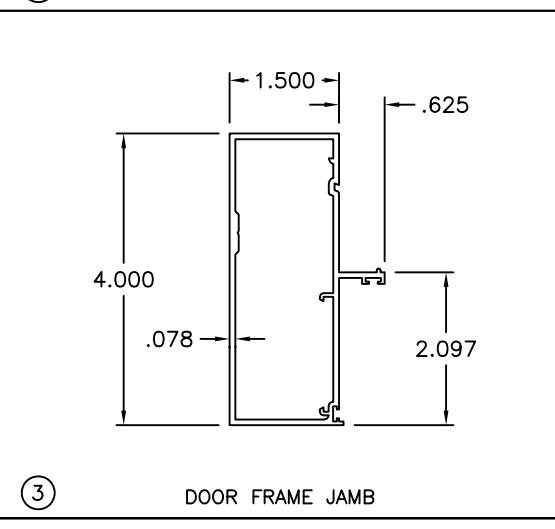
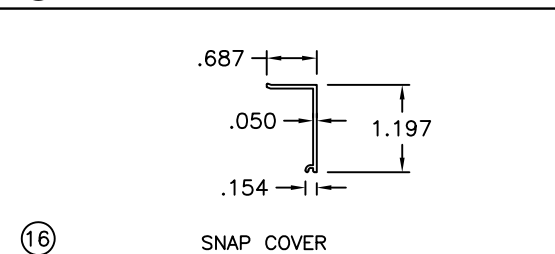
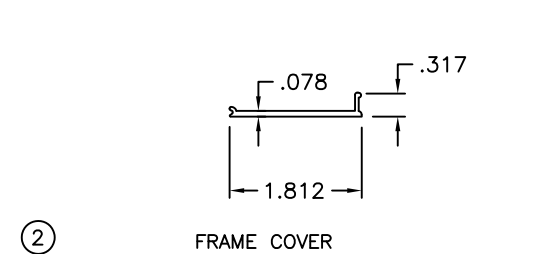
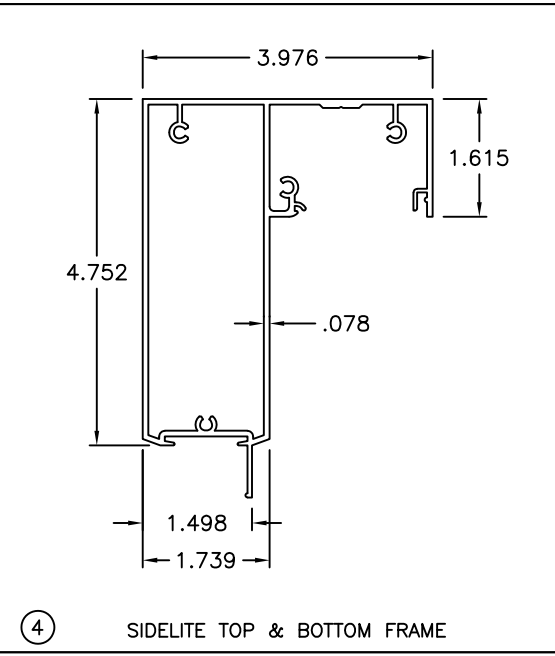
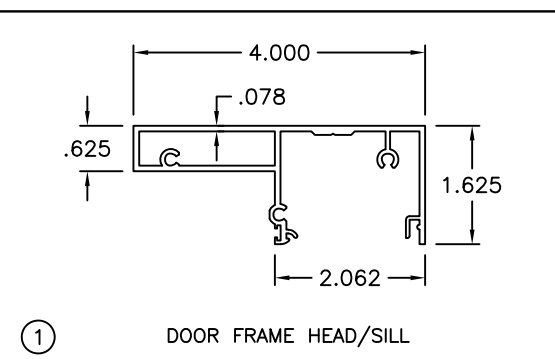
ALL FRAME/PANEL JOINTS AND SEAMS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	-	DOOR FRAME HEAD/SILL	6063 - T6	-
2	E602	-	FRAME COVER	6063 - T6	-
3	E603	-	DOOR FRAME JAMB	6063 - T6	-
4	E604	-	SIDELITE TOP & BOTTOM FRAME	6063 - T6	-
4A	E626	-	SIDELITE 9" BOTTOM FRAME	6063 - T6	-
5	E605	-	SIDELITE FRAME JAMB	6063 - T6	-
6	E606	-	SIDELITE SLIP ON JAMB	6063 - T6	-
7	E607	-	LEAF TOP & BOTTOM RAIL	6063 - T6	-
7A	E625	-	LEAF 9" BOTTOM RAIL	6063 - T6	-
8	E608	-	LEAF W'STRIP ADAPTER	6063 - T6	-
9	E609	-	LEAF HINGE STILE	6063 - T6	-
10	E610	-	LEAF LOCK STILE	6063 - T6	-
11	E611	-	LEAF ASTRAGAL STILE	6063 - T6	-
12	E612	-	LEAF ALIGNMENT BRACKET	6063 - T6	-
13	E613	-	LEAF CLAMP	6063 - T6	4-1/4" LONG
13A	E613	2/HINGE	HINGE BACK-UP PLATE	6063 - T6	12" LONG
14	E109	-	GLAZING BEAD (7/16" LAM. GLASS)	6063 - T6	-
16	E616	-	SNAP COVER	6063 - T6	-
18	-	AS REQD.	SIDELITE MULLION REINFORCING	6063 - T6	-
19	FD-107	3/ LEAF	BUTT HINGE	ALUMINUM	SULLIVAN & ASSOC.
22	#10 X 1-1/2"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	HWH SMS
23	#10 X 3/4"	-	HINGE INSTALLATION FASTENERS	ST. STEEL	FH SMS
24	-	2/LEAF	3/8" DIA. THREADED ROD	STEEL	-
25	W11323	-	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20618-KN-3020	-	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	-	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	-	-	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
33	#10 X 3/4"	2/ ADAPTER	FH SELF DRILLING SCREWS	-	FH SMS
34	-	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4"LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5
36	E804	-	ADA THRESHOLD	6063 - T6	-
38	E816	-	ADA THRESHOLD COVER	6063 - T6	-

Revision:  
REVISED TABLE  
FORMAT,  
ADDED DP  
TABLE  
ROUNDING AND  
ANCHOR HEAD  
TYPE NOTES,  
REVISED  
WATER RESIST.  
NOTE,  
REMOVED  
SILICONE AND  
BACKSTOP ON  
INSTALL DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	4/10/2022	Rev.	A
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES 650 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)	Drawn	HONG C.	DWG No. 9 OF 11	Sheet SERIES 650
		HARDWARE DETAILS & BOM	FD650FPA - LMI		



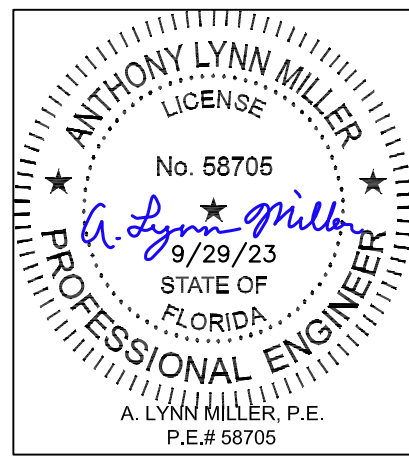


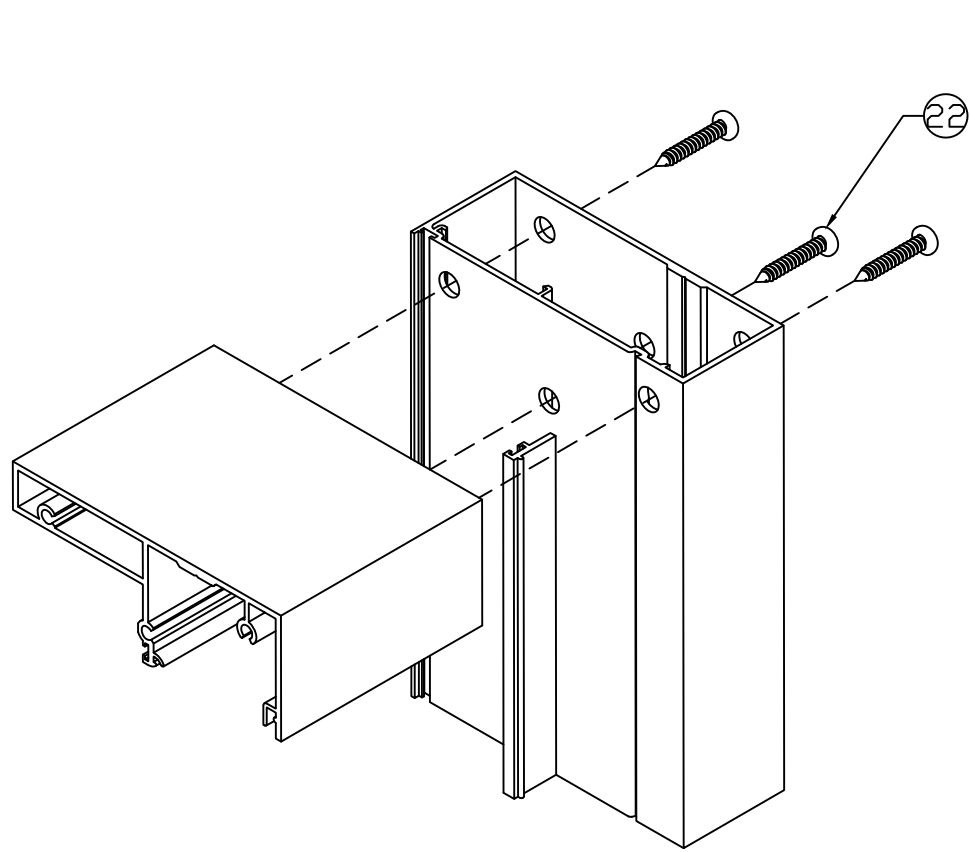
Revision:  
 REVISED TABLE  
 FORMAT.  
 ADDED DP  
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 INSTALL DETAIL

PREPARED BY A. LYNN MILLER  
 1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941) 480-1600  
 REGISTRATION #29296

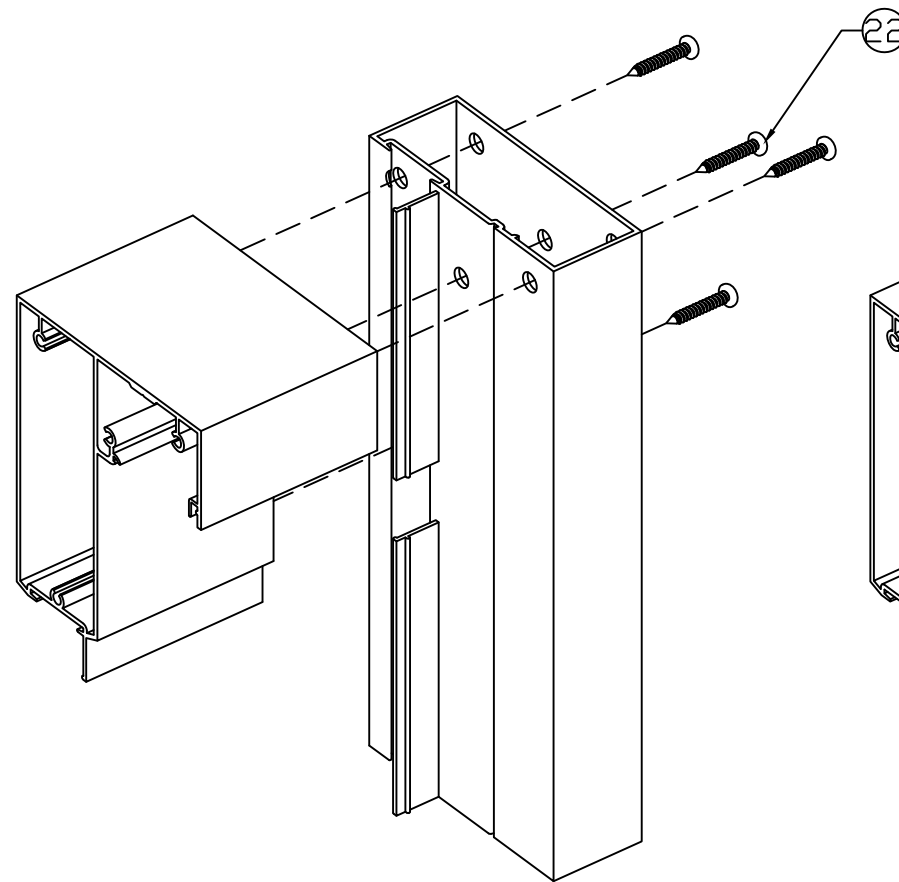
ECO WINDOW SYSTEMS, LLC.  
 8602 N.W. 80th ST. MEDLEY, FL 33166  
 TEL: (305) 885-5299 FAX: (305) 885-5902

EXTRUSION PROFILES  
 SERIES 650  
 10 OF 11  
 DWG No. FD650FPA - LMI  
 HONG C.  
 4/10/2022  
 Date

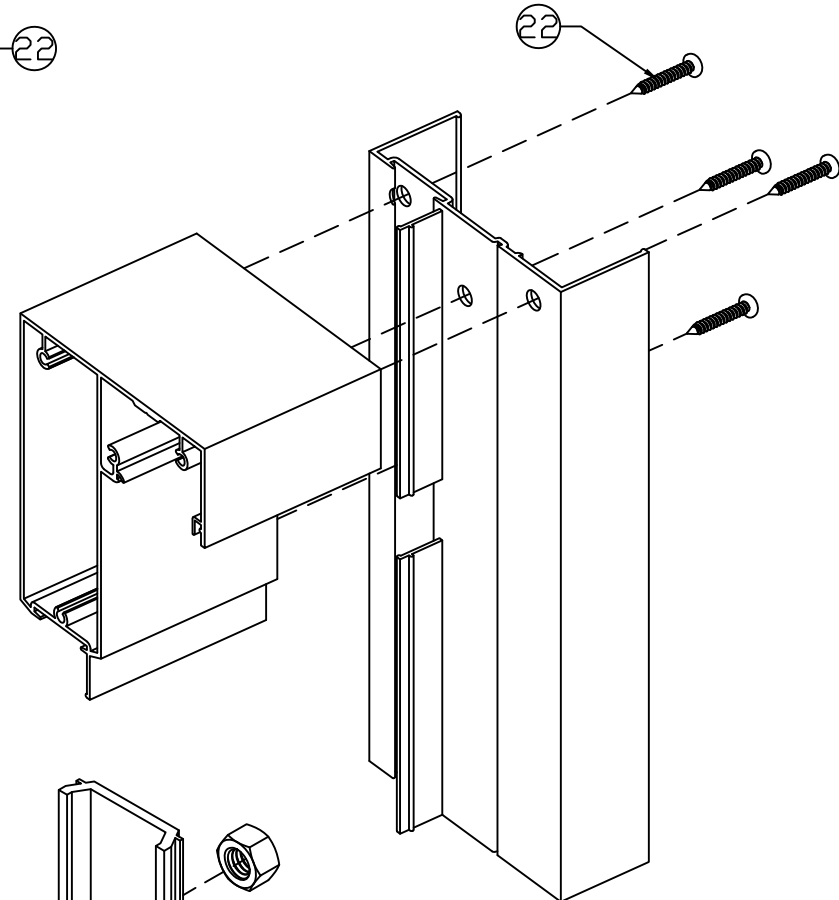




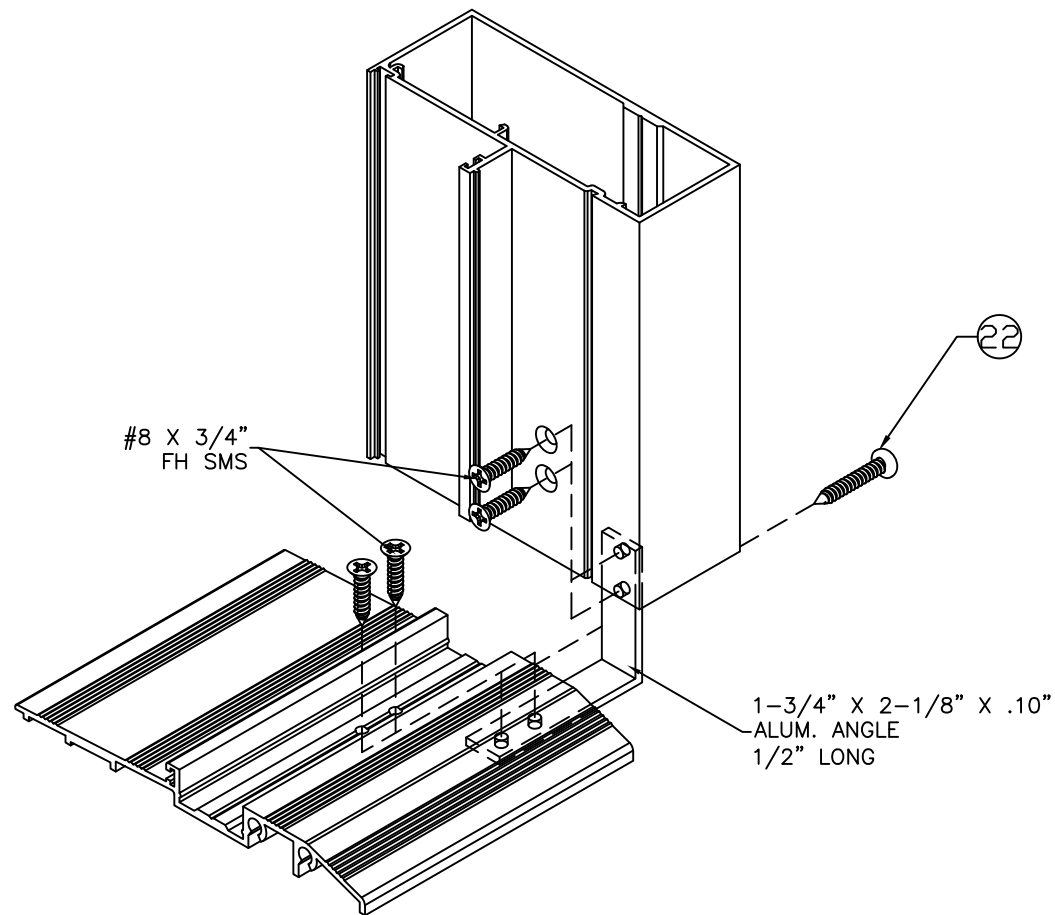
DOOR FRAME CORNER



SIDELITE FRAME CORNER



SIDELITE MULLION SLIP ON JAMB CORNER



LEAF CORNER

Revision:  
 REVISED TABLE  
 FORMAT.  
 ADDED DP  
 TABLE  
 ROUNDING AND  
 ANCHOR HEAD  
 TYPE NOTES.  
 REVISED  
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PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296	Date	4/10/2022	Revised	A
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902		SERIES 650 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)		Drawn	HONG C.	
ASSEMBLY CORNER DETAILS		FD650FPA - LMI		DWG No.	11 OF 11	
SERIES 650		ASSEMBLY CORNER DETAILS		Sheet	11 OF 11	

