



JAVAD AHMAD PE, inc
 7875 NW 12th St., Suite 102 Doral,
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 Ph: (305) 424-8001
 support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

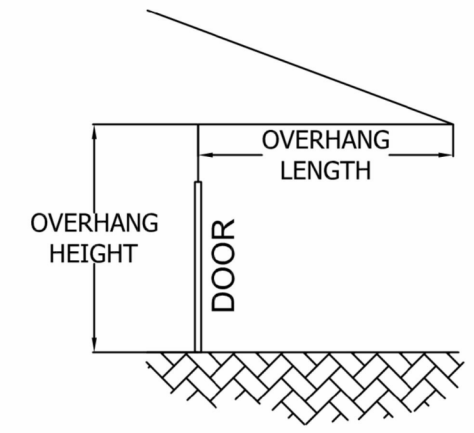


FIGURE A

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.

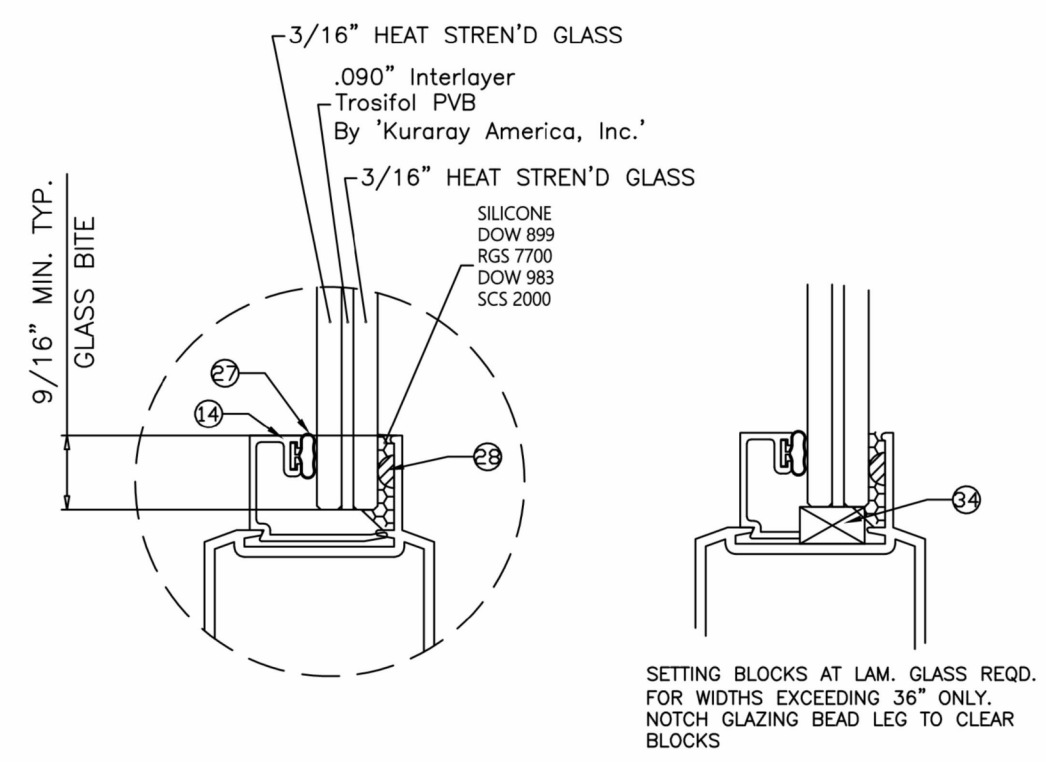
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
 ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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)'.
 MA



GLAZING DETAIL

drawing no.	JA-1844-24	drawn by:	MA
date:	12/30/2024	check by:	BS
REVISION		DESCRIPTION	
No.	DATE	BY	

SERIES 650: ALUMINUM OUTSWING ENTRANCE DOOR (L.M.I.)
 LARGE MISSILE IMPACT RATED

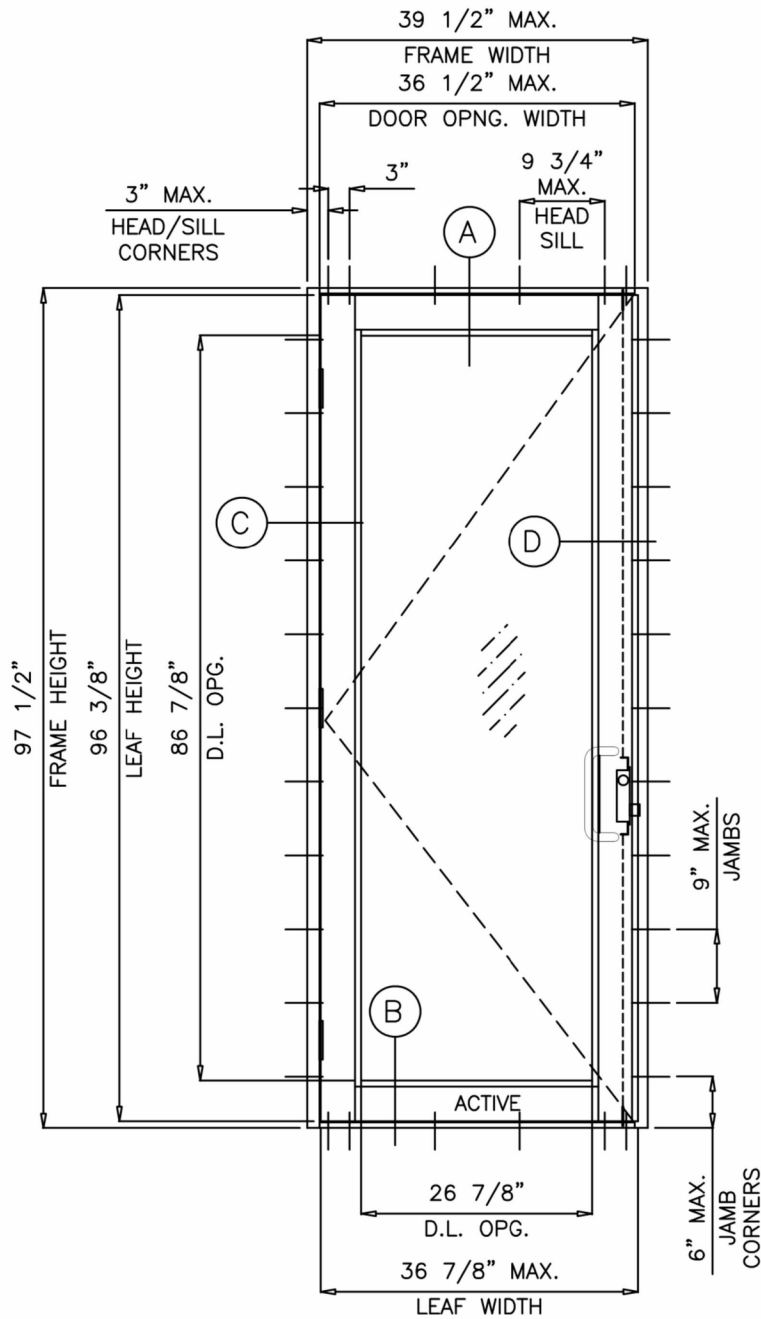
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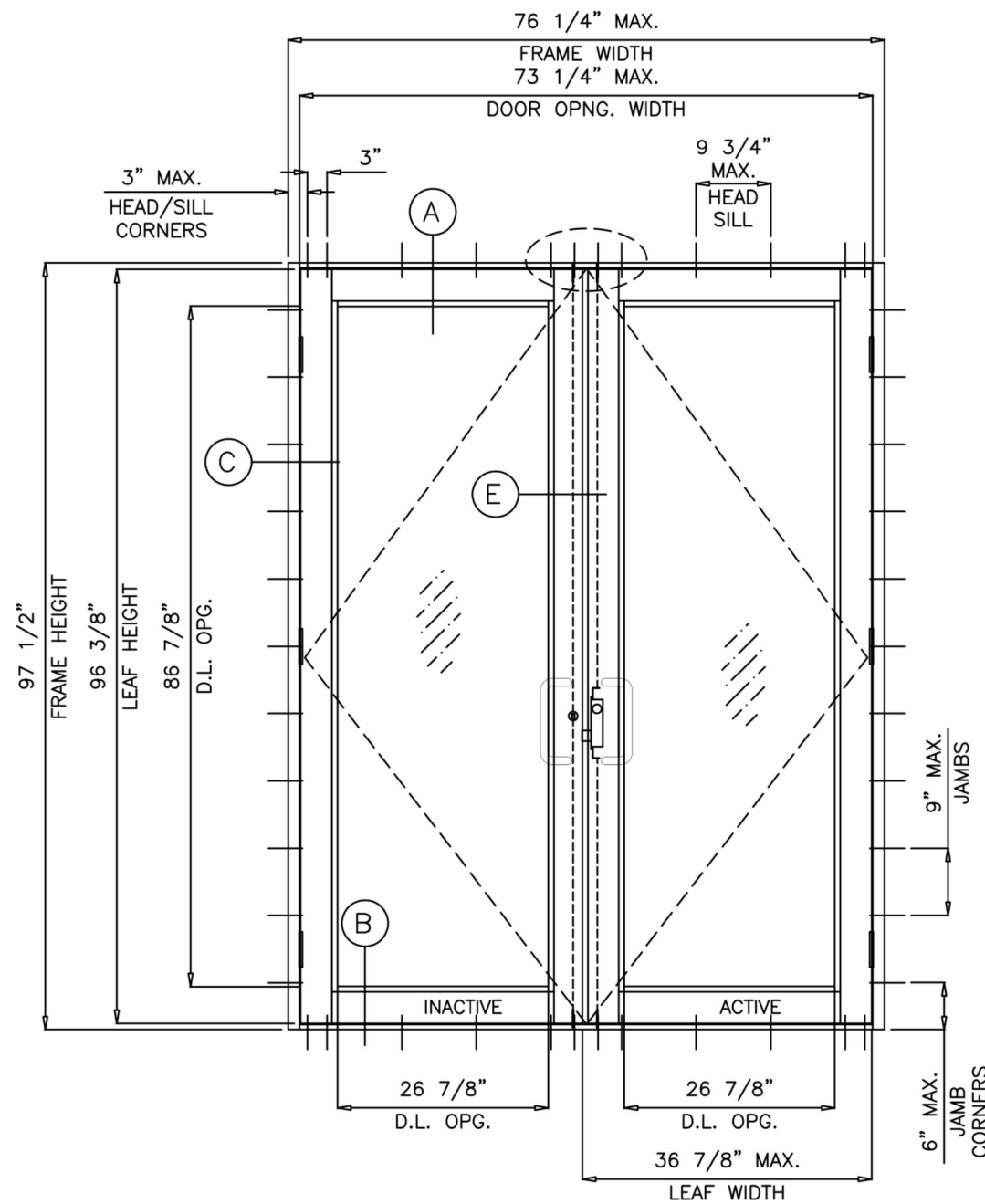
FL#39630.5

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 E1300-16 (3 SEC. GUSTS)

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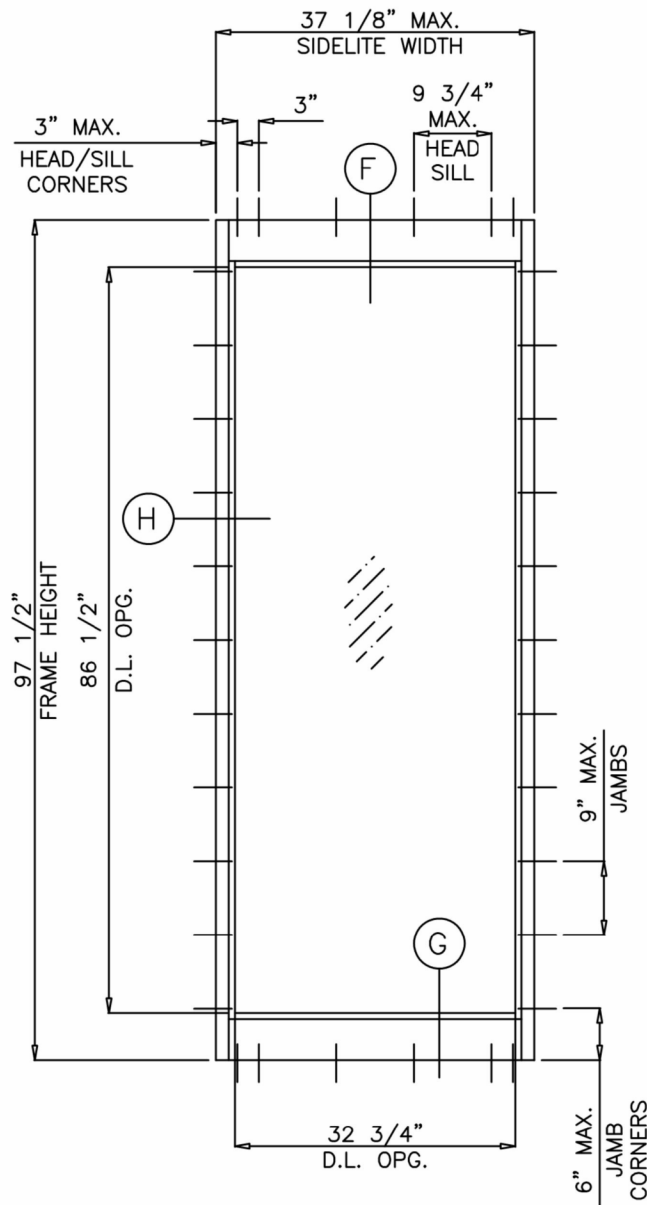
SERIES 650: ALUMINUM OUTSWING ENTRANCE DOOR
 (L.M.I.)
 LARGE MISSILE IMPACT RATED



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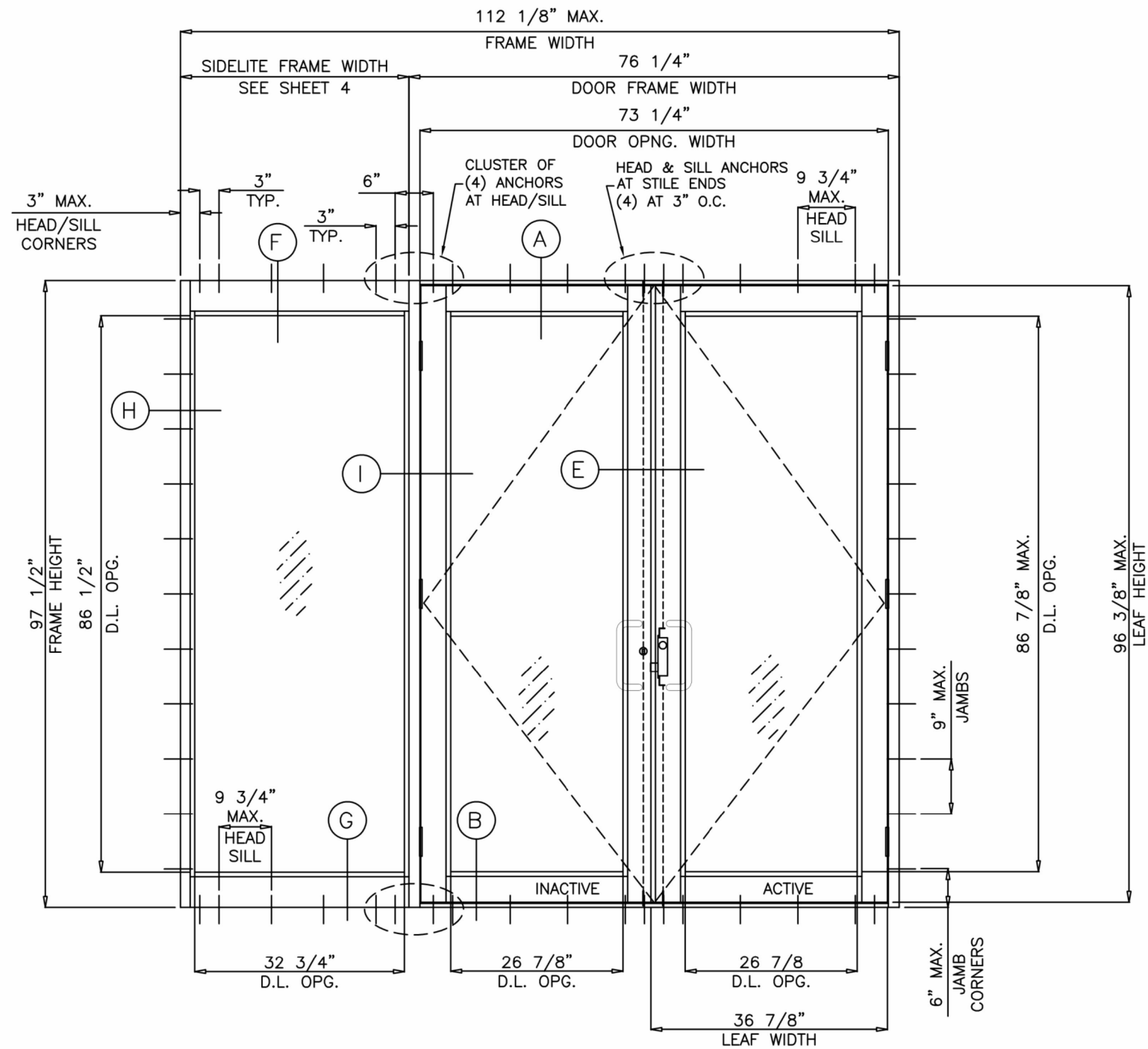
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TYPICAL ELEVATION

(O)

STAND ALONE SINGLE SIDELITE



TYPICAL ELEVATION

(O-XX)

TESTED UNIT

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.

GLASS D.L.O. DIMS.

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

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



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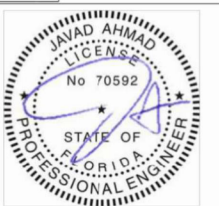
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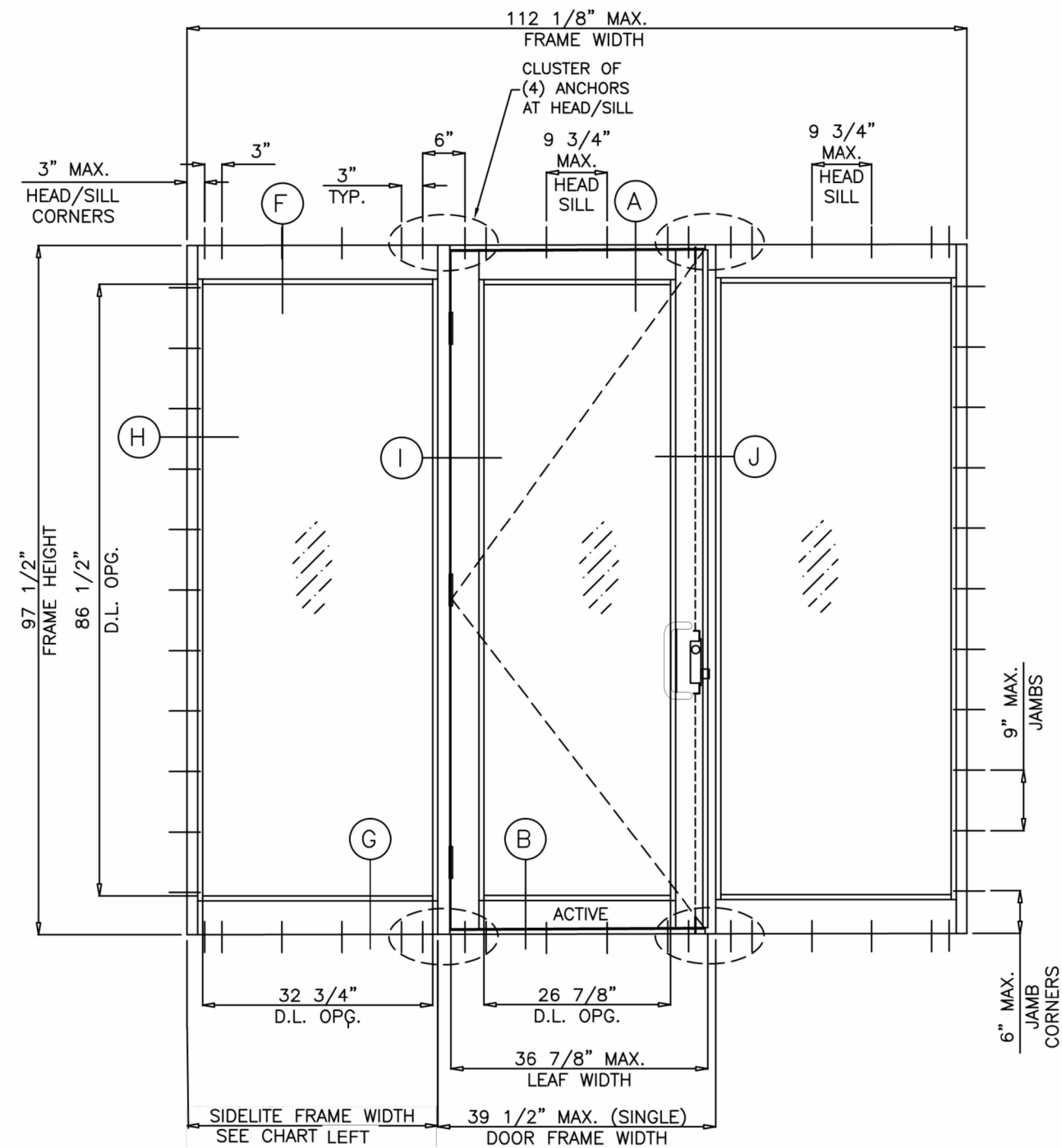
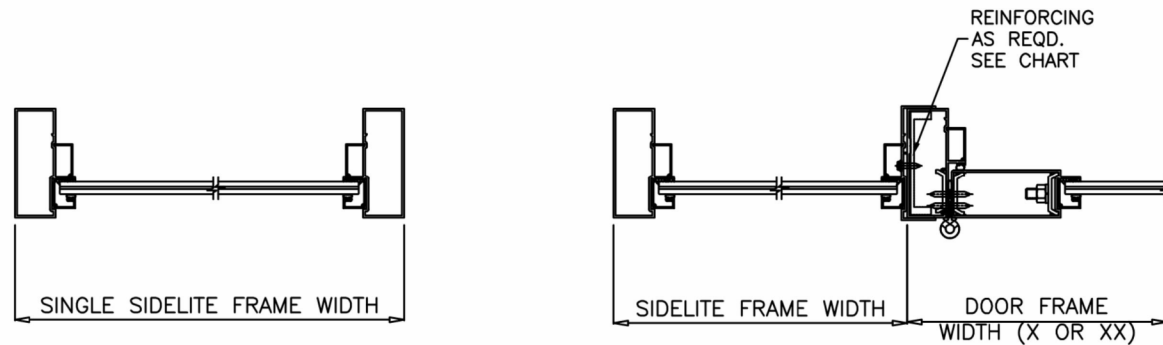


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Design Load Capacity - PSF											
Stand Alone Single Sidelites											
Without Reinforcement		Sidelite Frame Height (in.)									
		82"	86"	92"	96"	97-1/2"	82"	86"	92"	96"	97-1/2"
Sidelite Frame Width (in.)	24"	+70.0	-75.0	+70.0	-75.0	+70.0	-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"	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
WILL APPLY TO ENTIRE SYSTEM.

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



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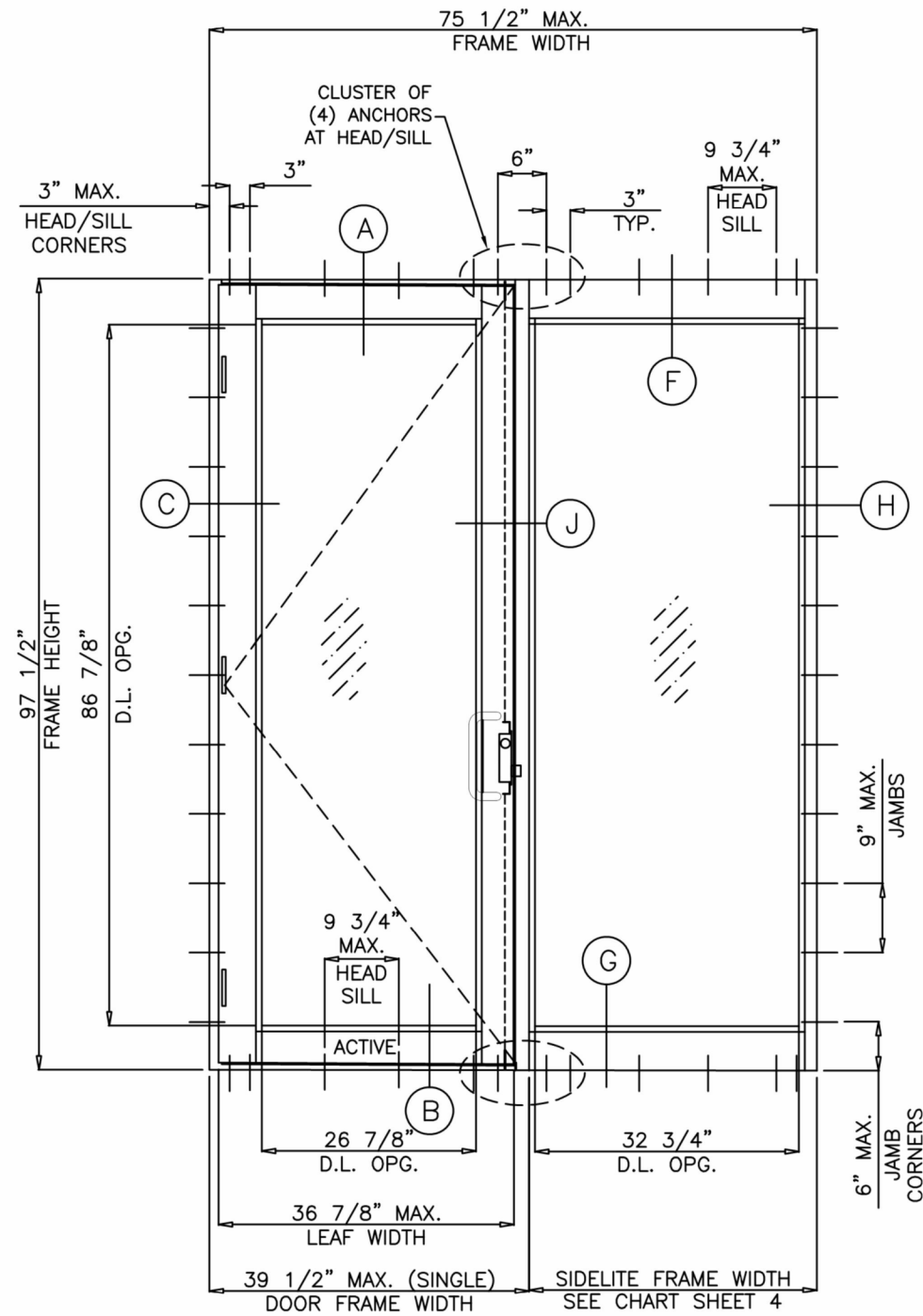
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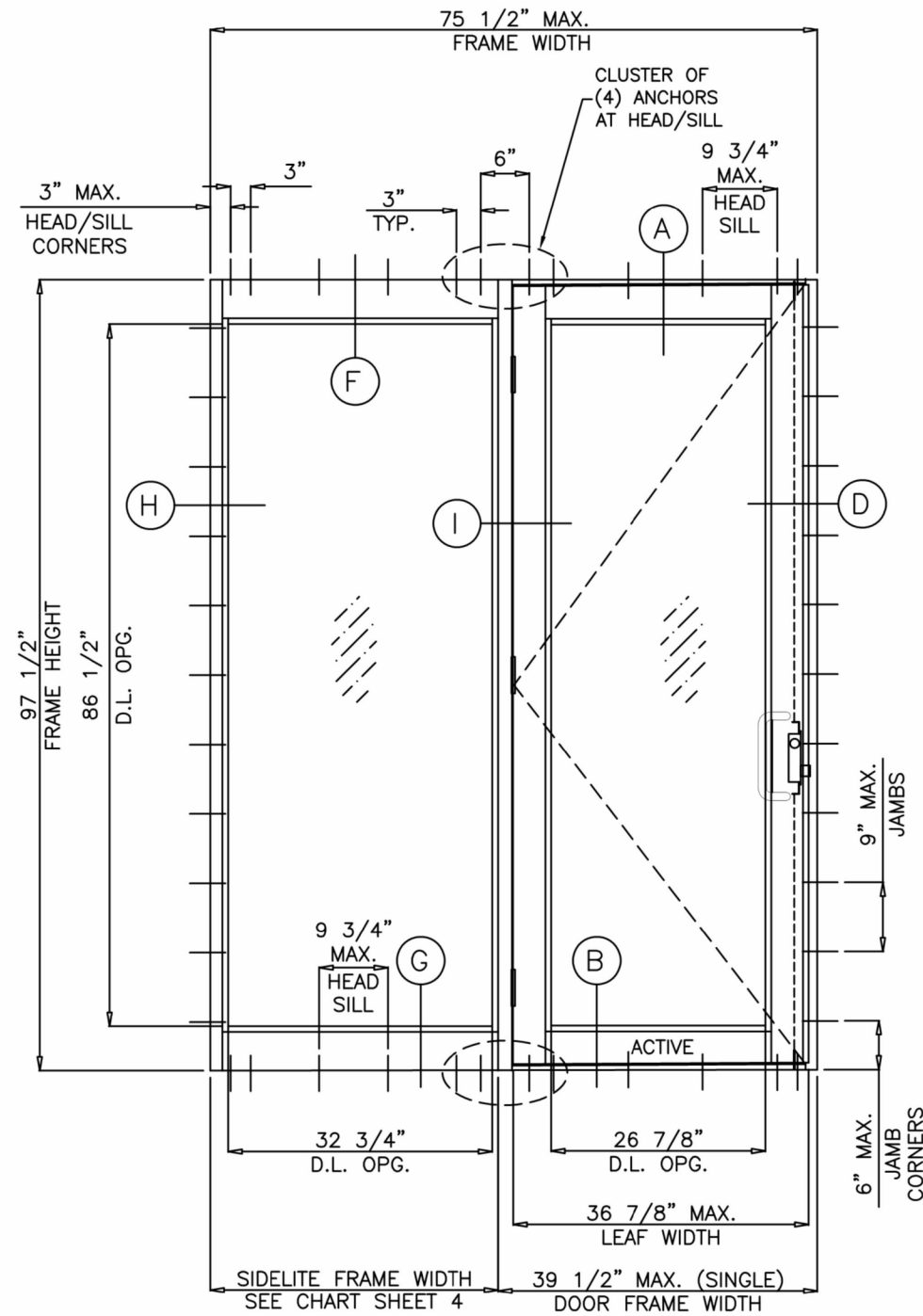
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(XO W/ LOCK STILE TO MULL)
OX SIMILAR



(OX W/ HINGE STILE TO MULL)
XO SIMILAR

NOTE:

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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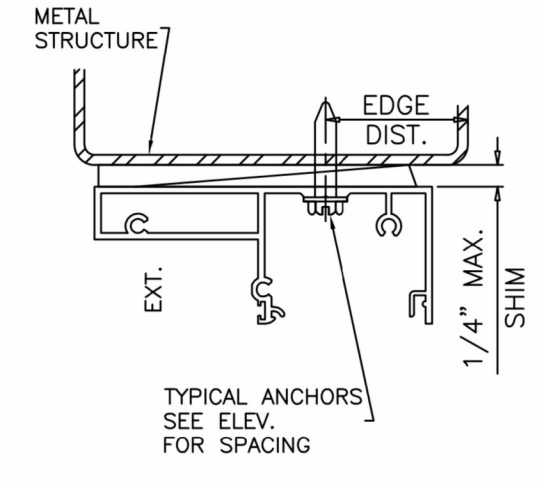
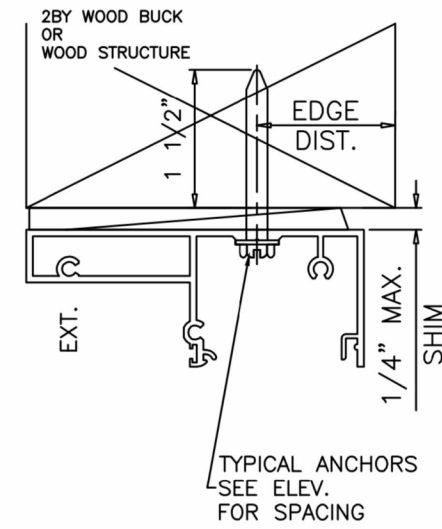
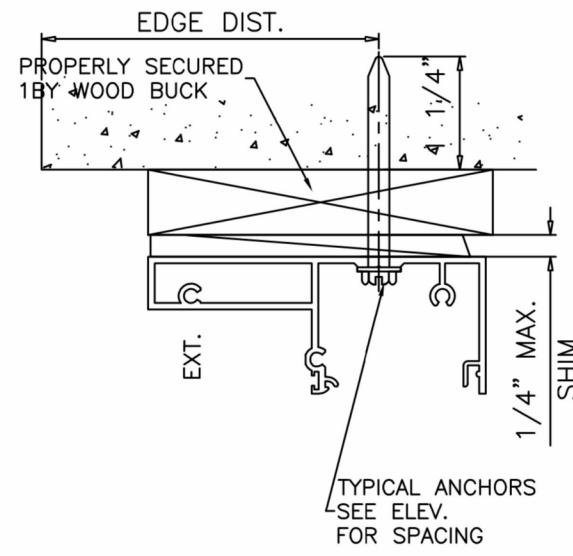
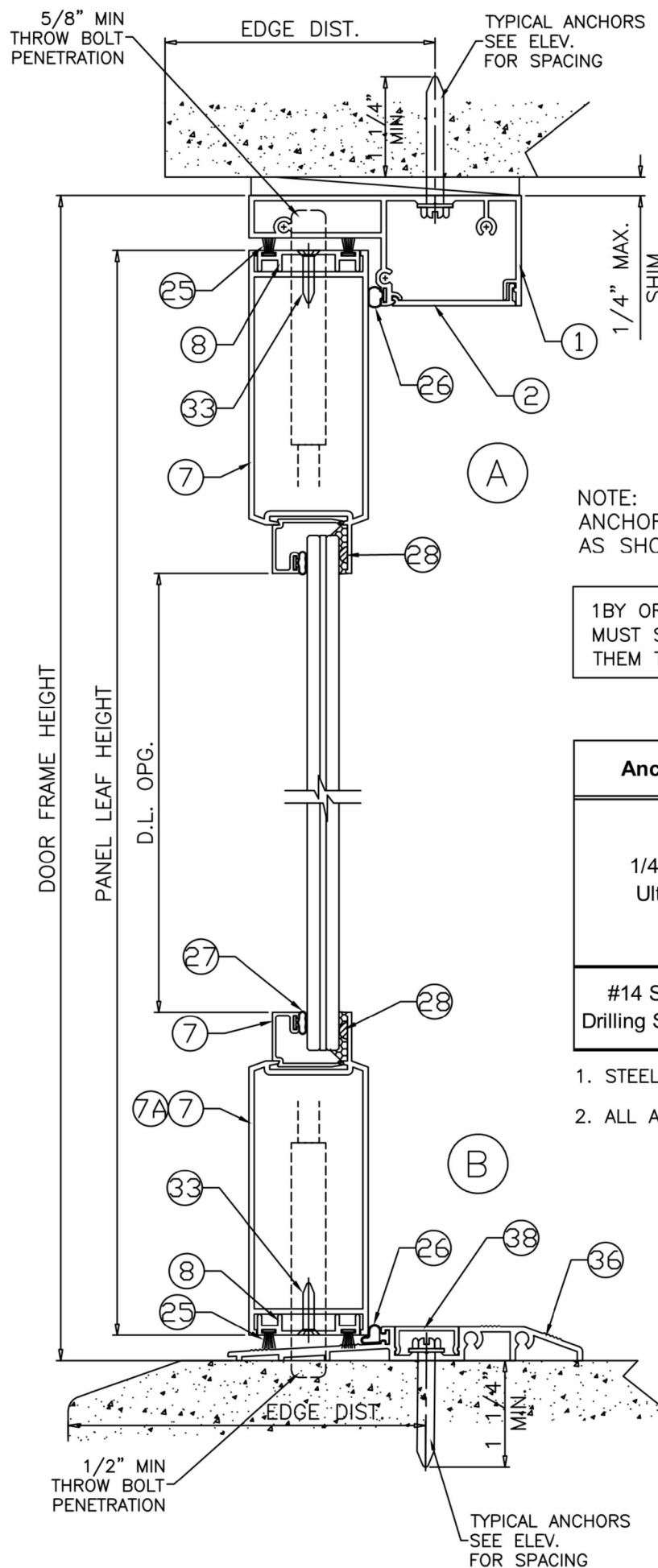


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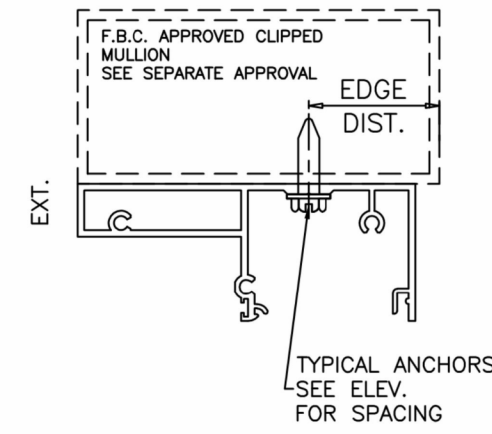
NOTE:
ANCHORS MUST GO THRU ANCHOR PADS
AS SHOWN ON FRAME MEMBERS

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



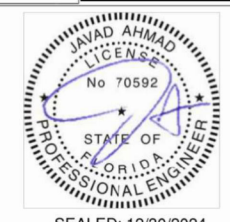
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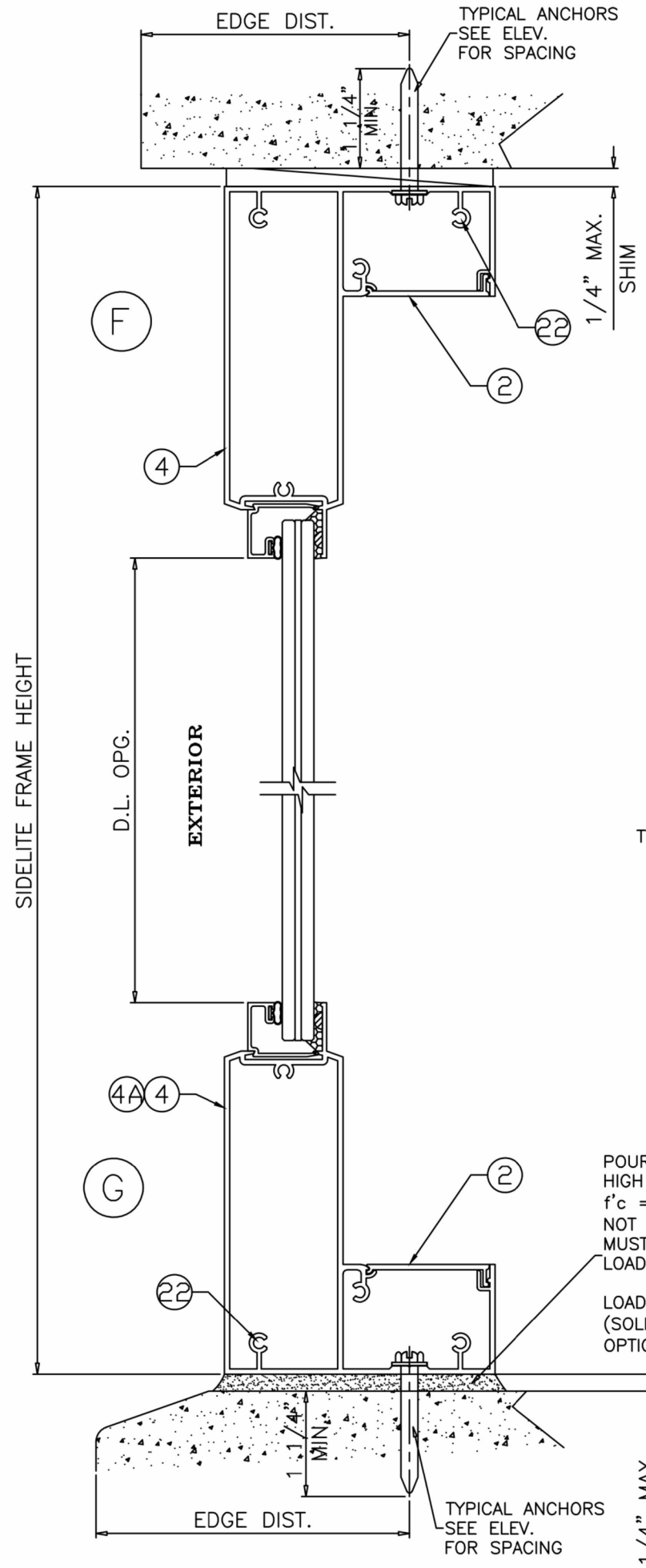
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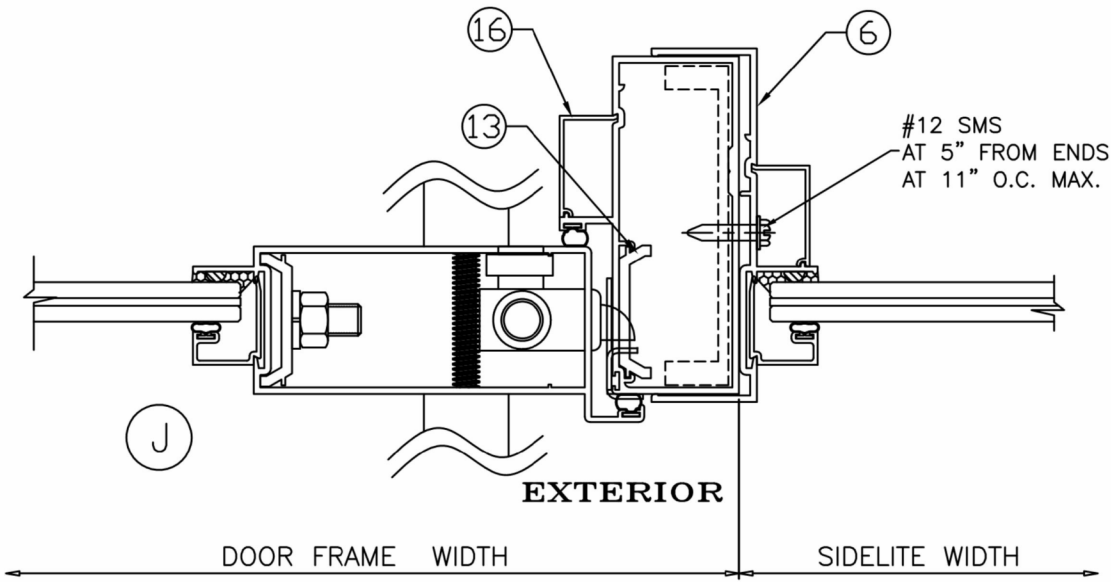
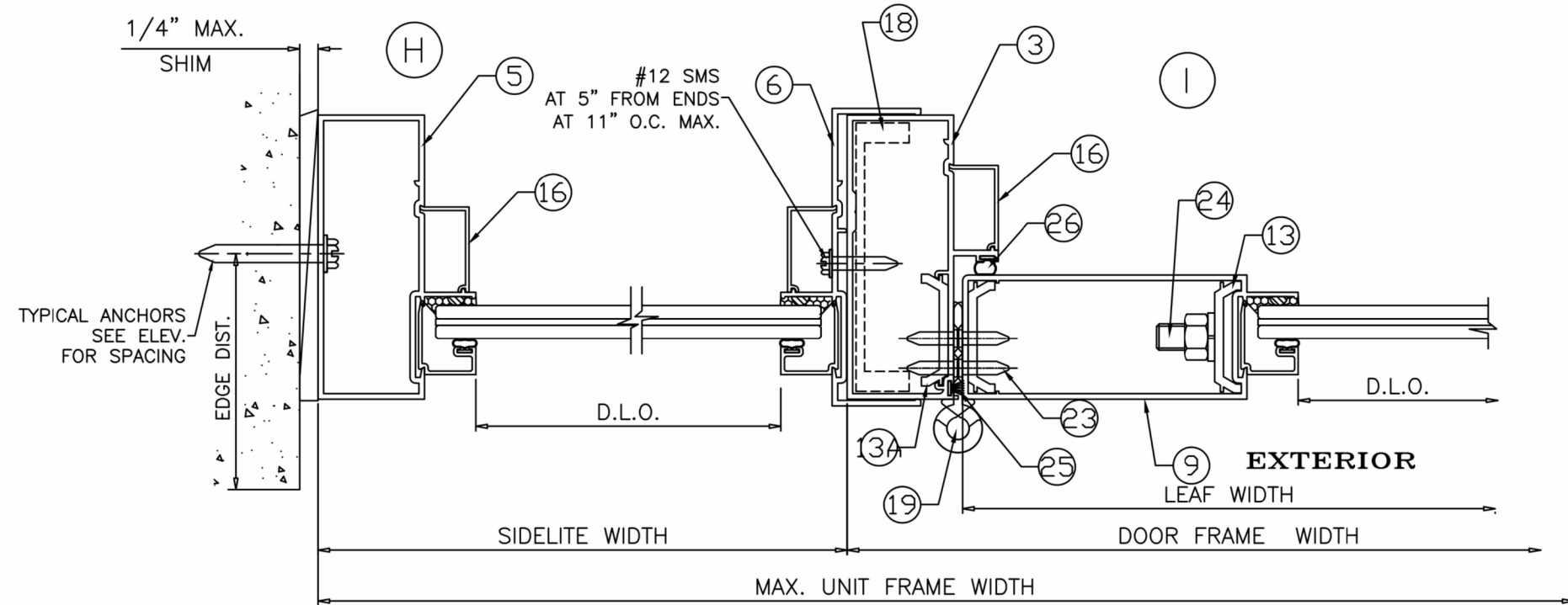
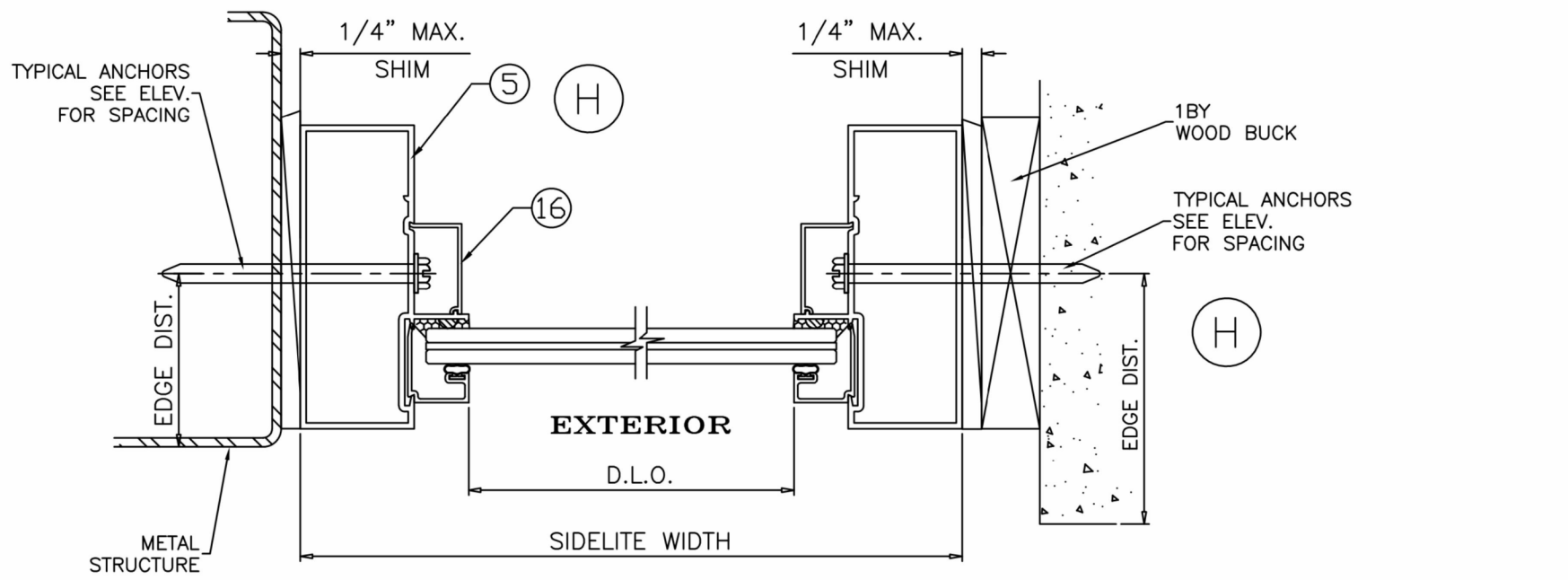
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POURED & HARDENED HIGH STRENGTH GROUT $f'_c = 5000$ PSI MIN. NOT BY "ECO WINDOWS" MUST TRANSFER SHEAR LOADS TO STRUCTURE

LOAD BEARING (SOLID SHIMS OPTIONAL TO GROUT)



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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	F625	-	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	-



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drawing no. JA-1844-24	MA	drawn by:	BS
date: 12/30/2024		check by:	
		REVISION	
No.	DATE	BY	DESCRIPTION

SERIES 650: ALUMINUM OUTSWING ENTRANCE DOOR (L.M.I.)
LARGE MISSILE IMPACT RATED

ECO window systems
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



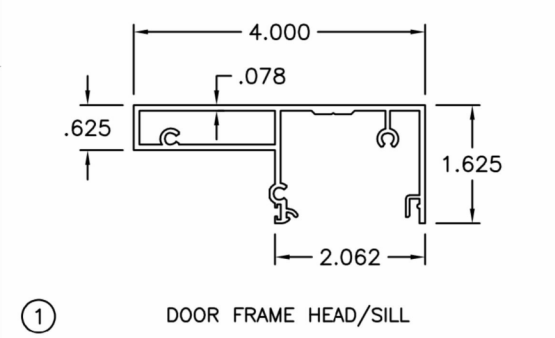
SEALED: 12/30/2024

FL#39630.5

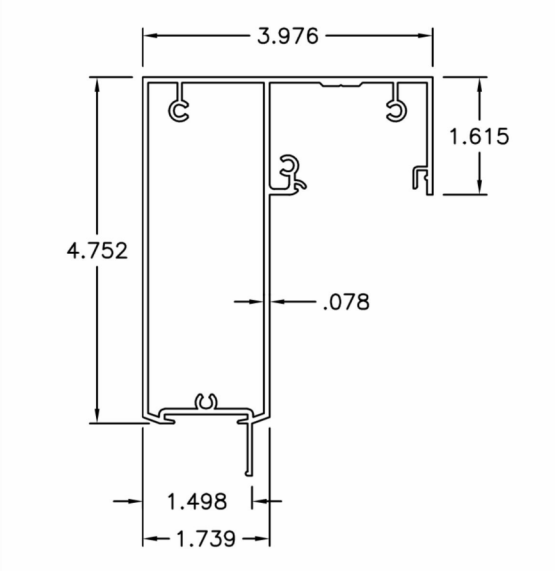


JAVAD AHMAD PE, inc
 7875 NW 12th St., Suite 102 Doral,
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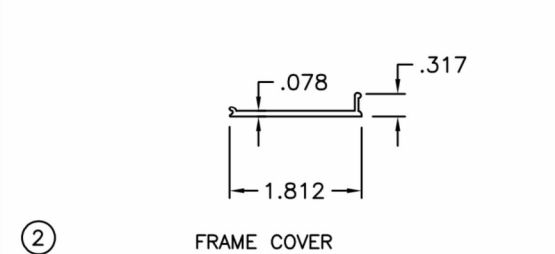
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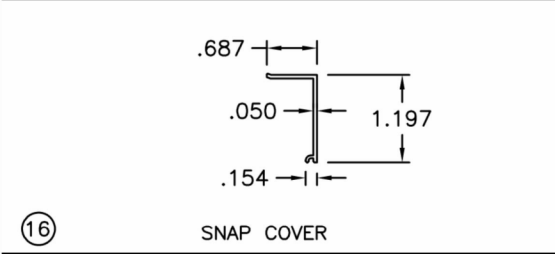
① DOOR FRAME HEAD/SILL



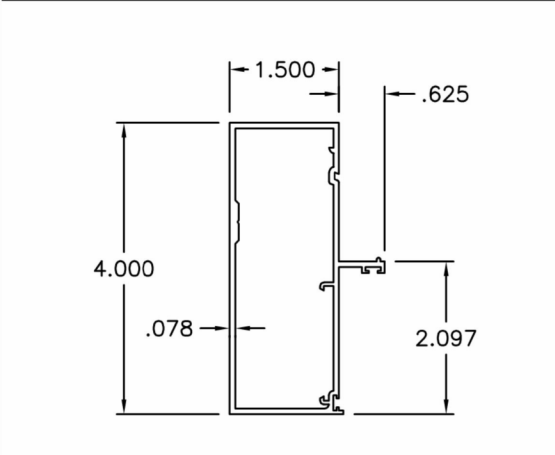
④ SIDELITE TOP & BOTTOM FRAME



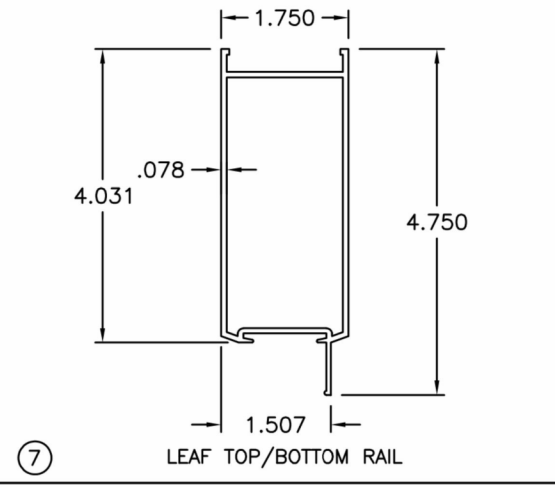
② FRAME COVER



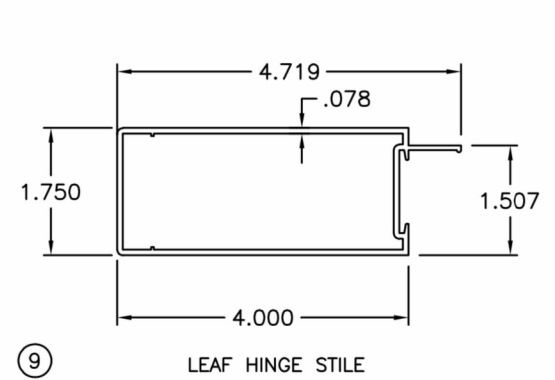
⑩ SNAP COVER



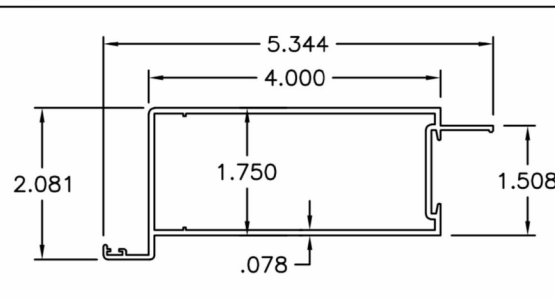
③ DOOR FRAME JAMB



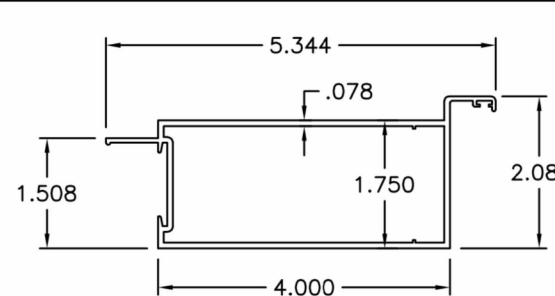
⑦ LEAF TOP/BOTTOM RAIL



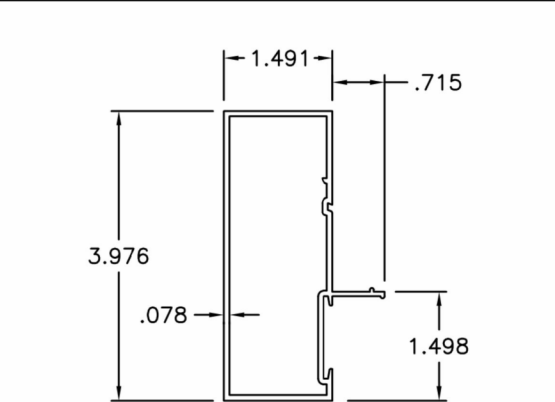
⑨ LEAF HINGE STILE



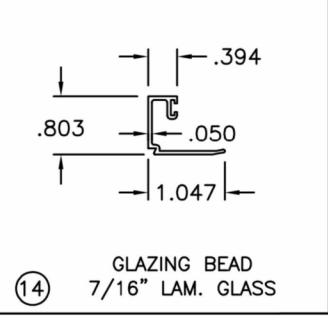
⑩ LEAF LOCK STILE



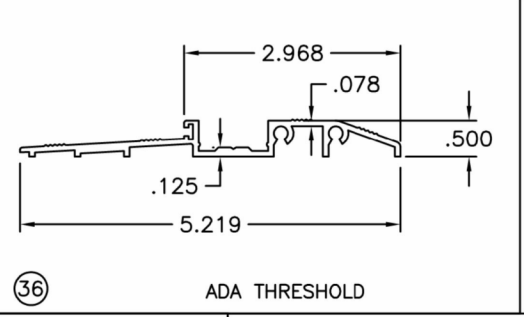
⑪ LEAF ASTRAGAL STILE



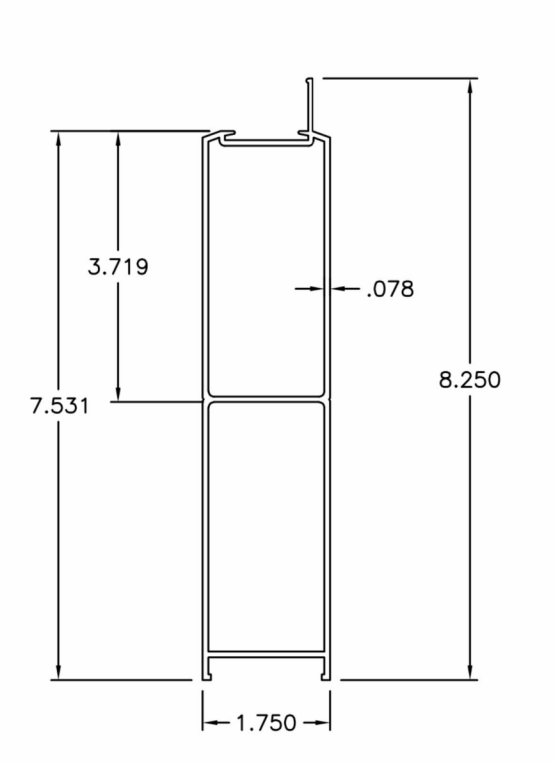
⑤ SIDELITE FRAME JAMB



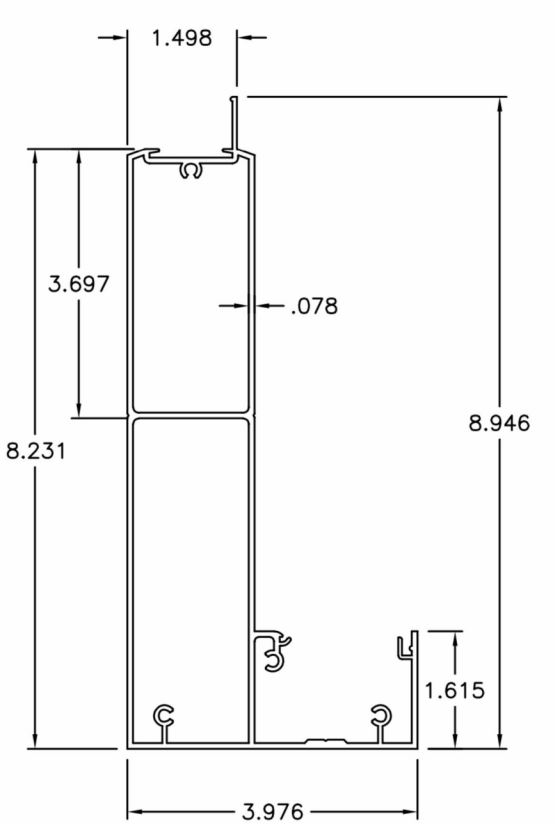
⑭ GLAZING BEAD
7/16" LAM. GLASS



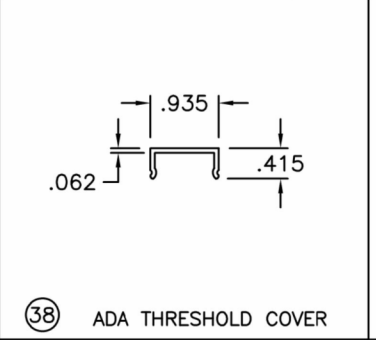
⑯ ADA THRESHOLD



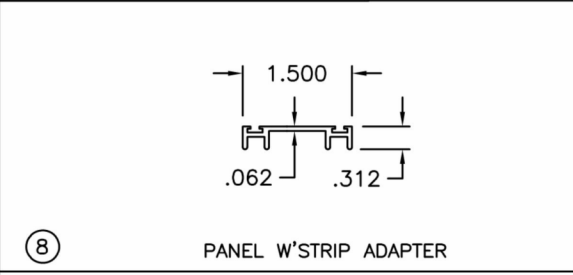
⑦A 9" BOTTOM RAIL



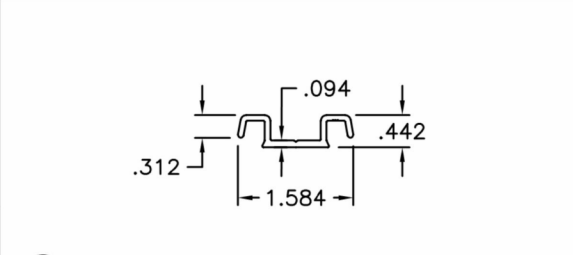
④A 9" BOTTOM RAIL



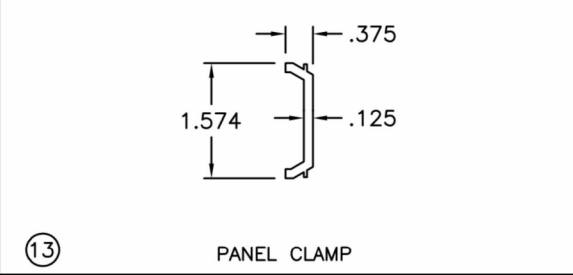
⑳ ADA THRESHOLD COVER



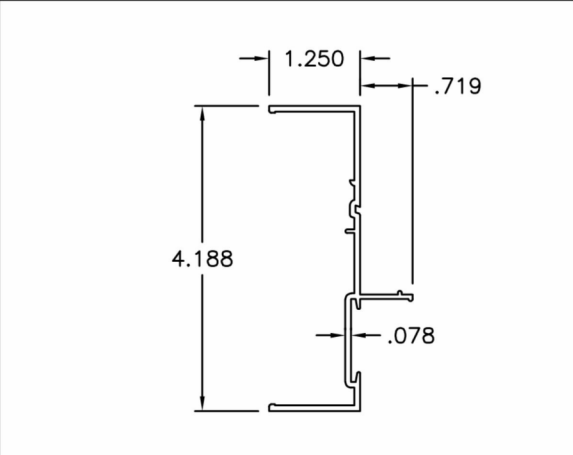
⑧ PANEL W'STRIP ADAPTER



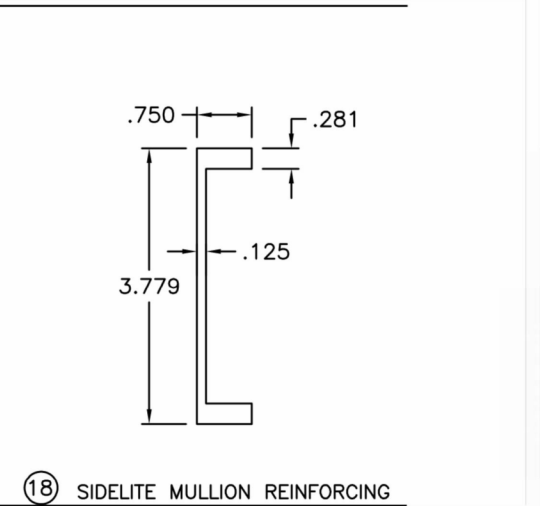
⑫ PANEL ALIGNMENT BRACKET



⑬ PANEL CLAMP



⑥ DOOR FRAME JAMB



⑱ SIDELITE MULLION REINFORCING

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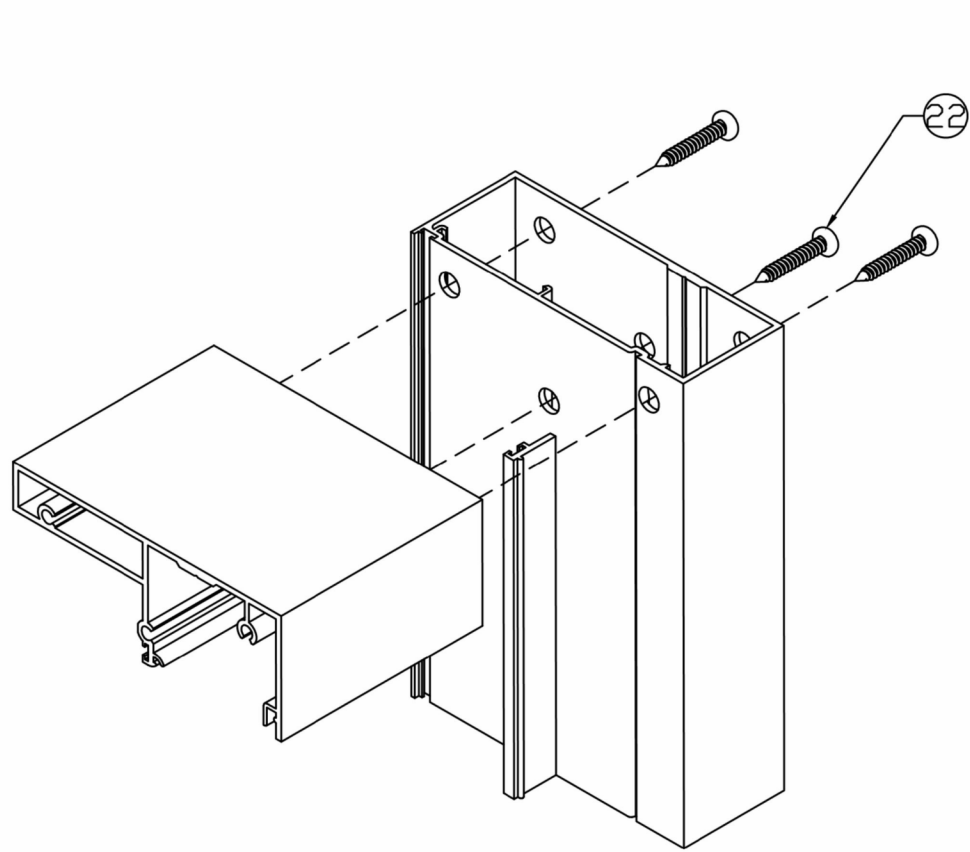
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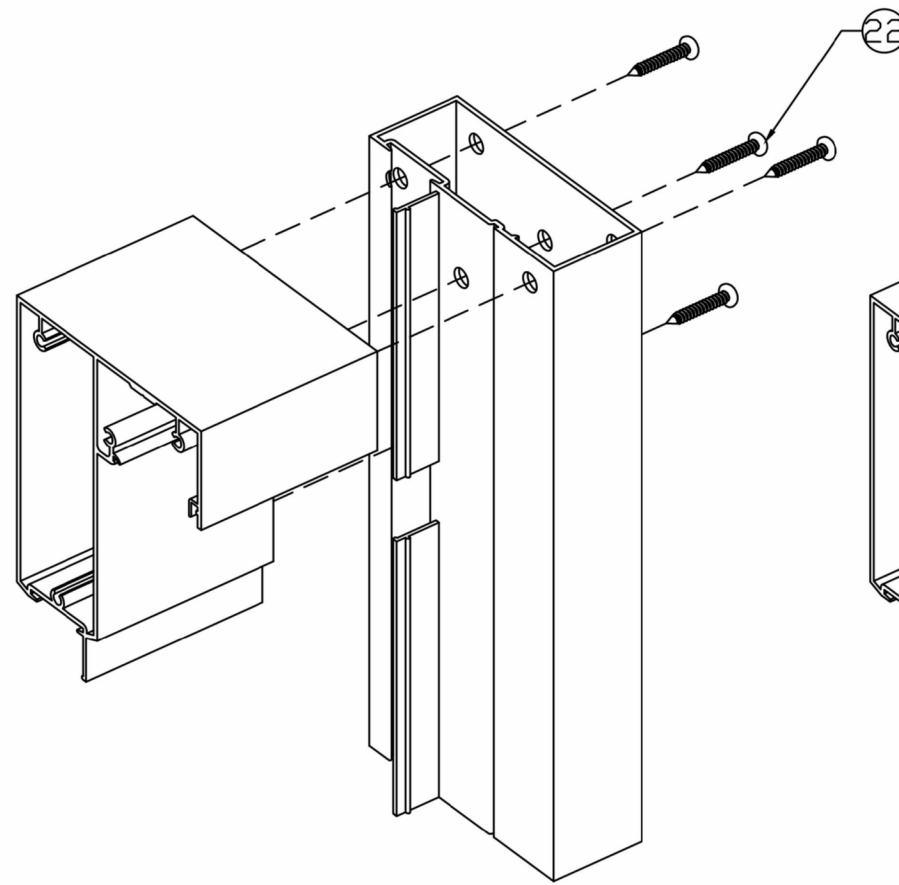
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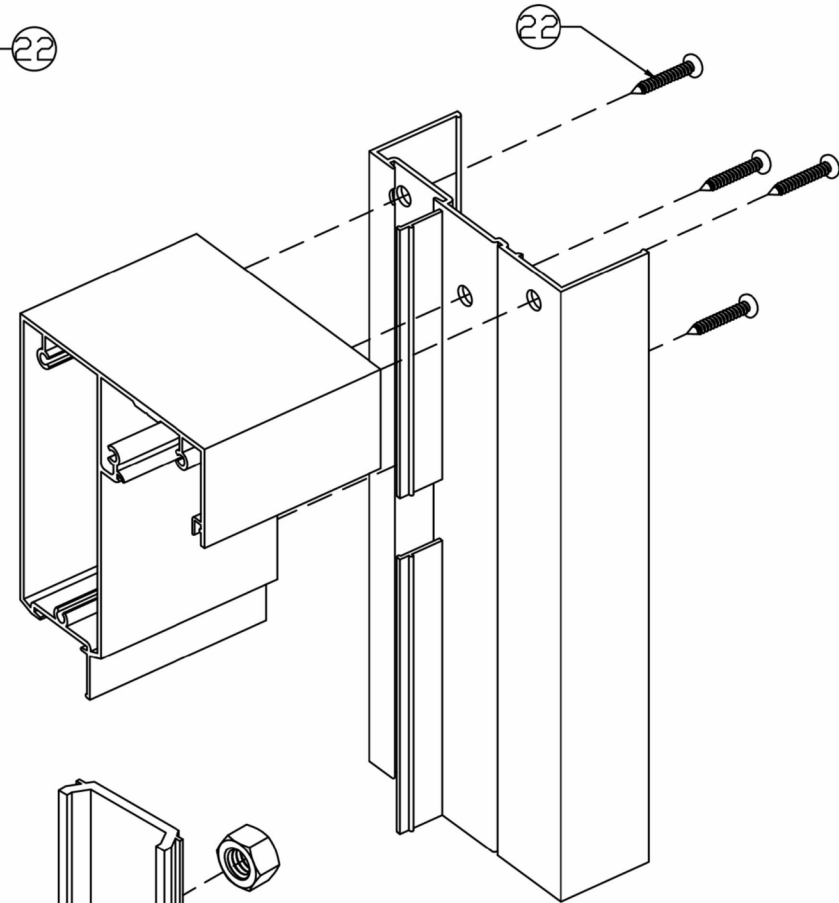
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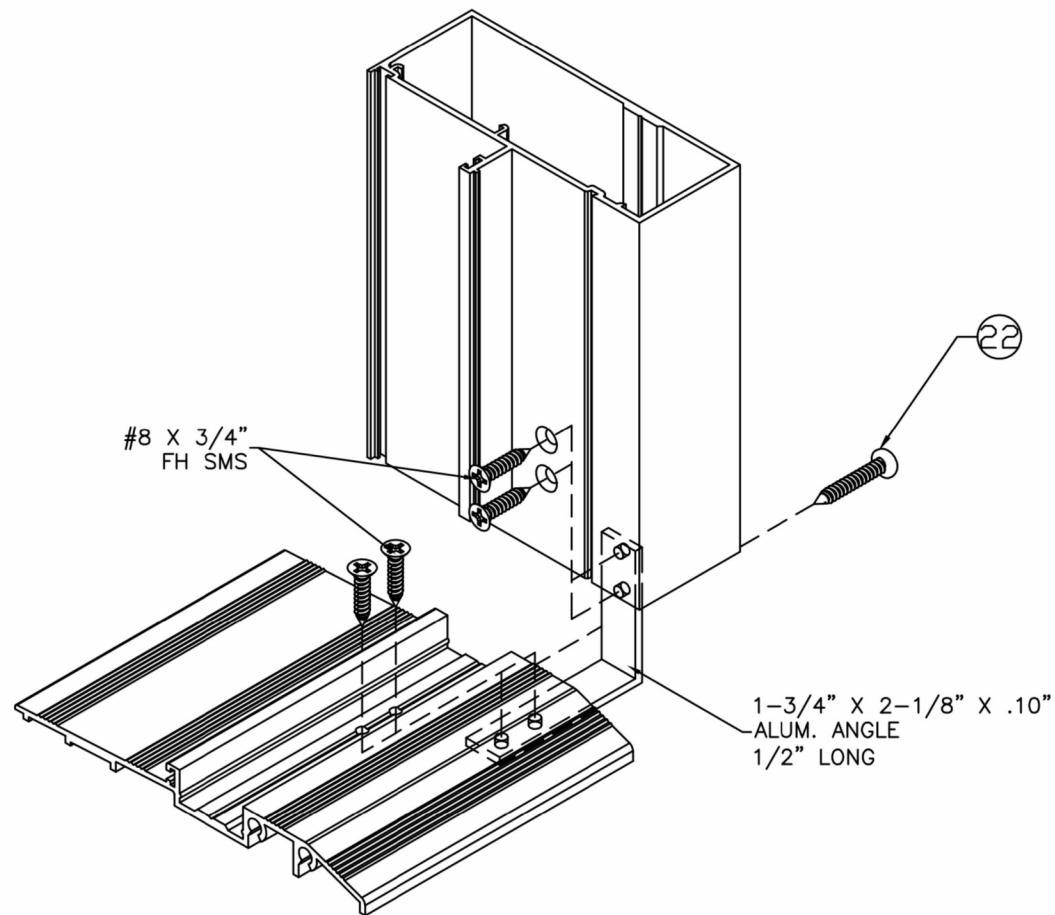
DOOR FRAME CORNER



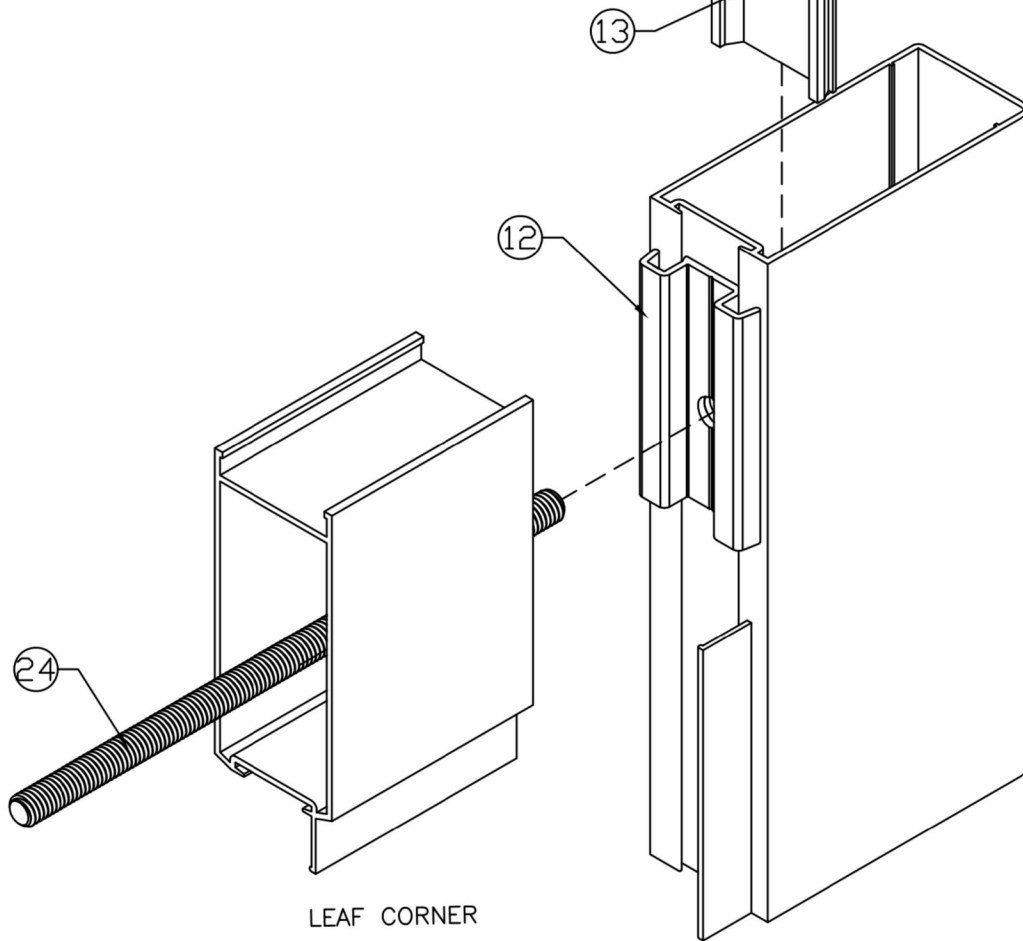
SIDELITE FRAME CORNER



SIDELITE MULLION SLIP ON JAMB CORNER



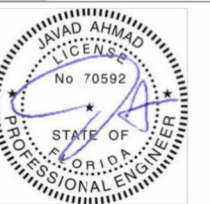
LEAF CORNER



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