

SERIES 800 COMMERCIAL
ALUMINUM OUT-SWING DOOR

INSTRUCTIONS:

USE DRAWING AS FOLLOWS.

1. SELECT SINGLE OR DOUBLE DOORS FROM SHEETS 1.2 & 2 OR SINGLE OR DOUBLE DOORS WITH TRANSOM FROM SHEET 3.
2. SELECT DOOR AND FRAME SIZE.
3. DETERMINE DP RATING FROM SHEETS 1.2, 2 OR 3.
4. SELECT GLASS TYPE FROM SHEET 1.1.
5. SELECT LOCK OPTION FROM SHEET 8, AND CORRESPONDING MAX. SIZES FROM SHEETS 1.2, 2 OR 3.
6. SELECT ANCHORING CONDITION AND CORRESPONDING ANCHOR TYPES FROM SHEET 4 THRU 7.

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

DOORS CAN ALSO BE USED WITH ECO WINDOW’S FBC APPROVED SERIES 400 WINDOW WALL SYSTEM (UNDER SEPARATE APPROVAL). FOR DOORS WITH WINDOW WALL SYSTEM SEE SEPARATE APPROVAL FOR DOOR MULLION CAPACITY AND ANCHORING REQUIREMENTS. THE LOWEST VALUE RESULTING FROM DOOR CAPACITY OR WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED, SEE SHEET 4 FOR LIMITATIONS.

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.

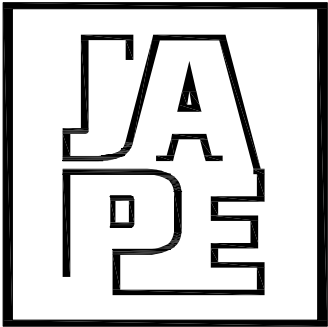
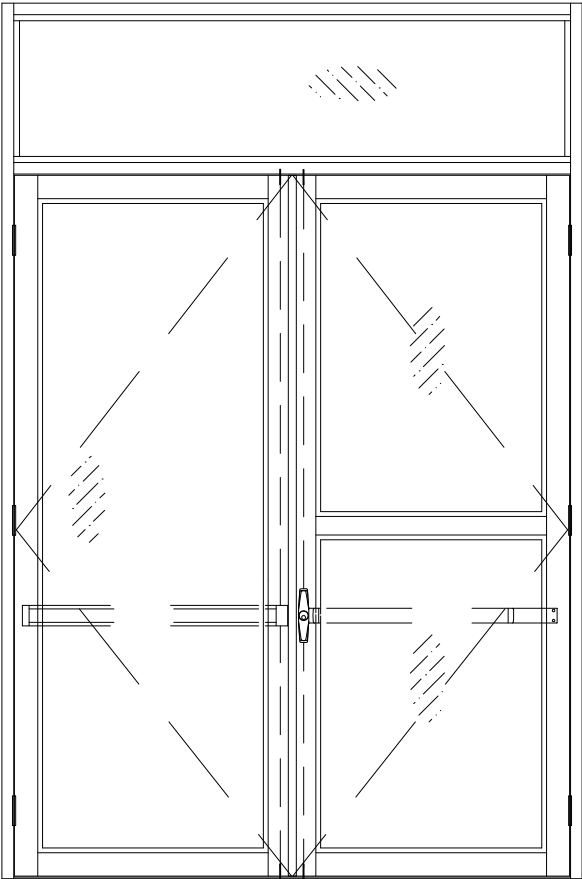
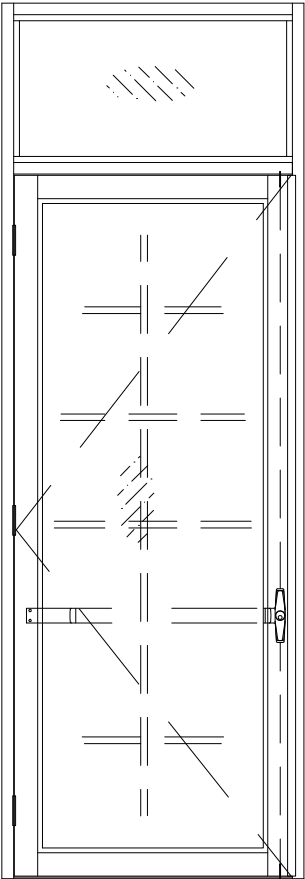
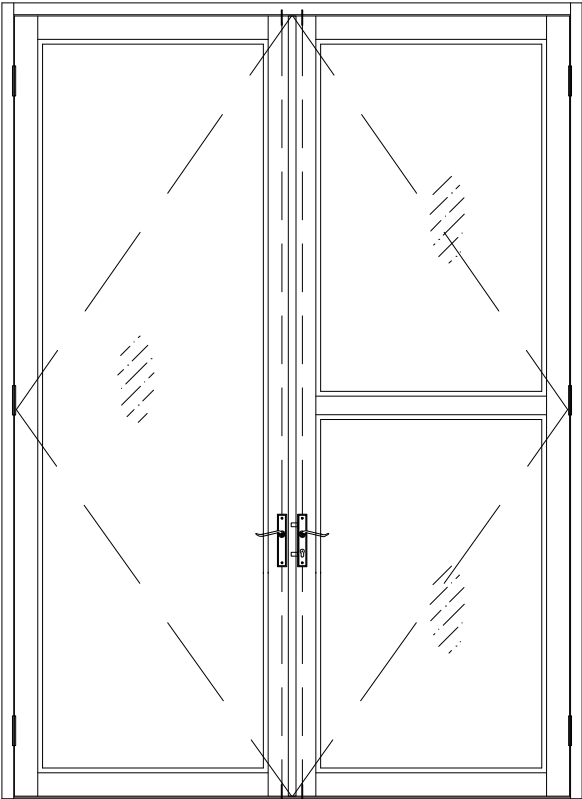
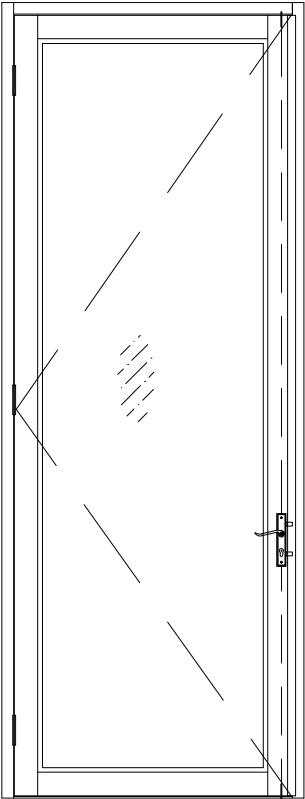
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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 BUILDING 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)"



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PROJECT :

SERIES 800
ALUMINUM OUTSWING
ENTRANCE DOOR

(L.M.I.)
LARGE MISSILE IMPACT RATED

CLIENT :



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

REVISION

No.	DATE	BY	DESCRIPTION
Date:	08-13-26		
Scale:	N/A		
Drawn by:	JM		
Check by:	JA		
Drawing no.	JA-1518-26		

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



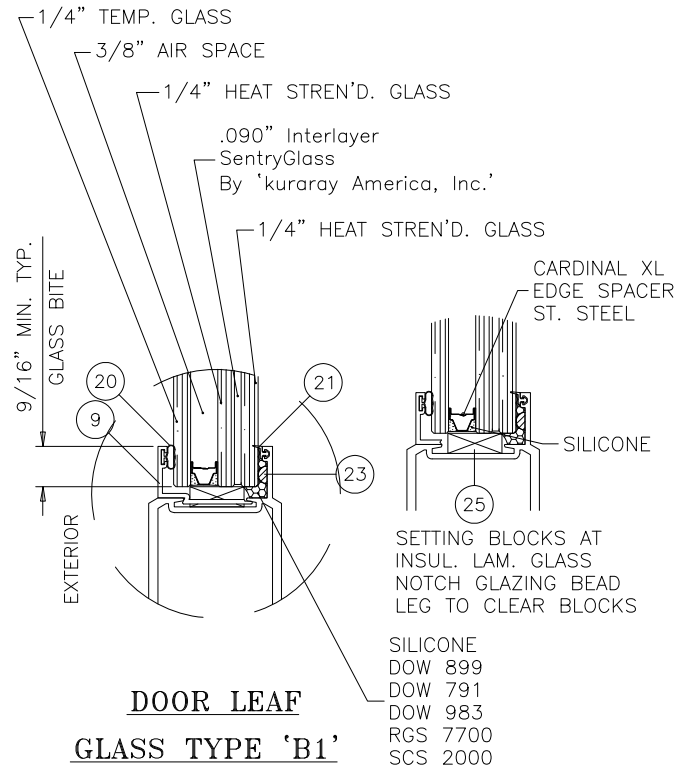
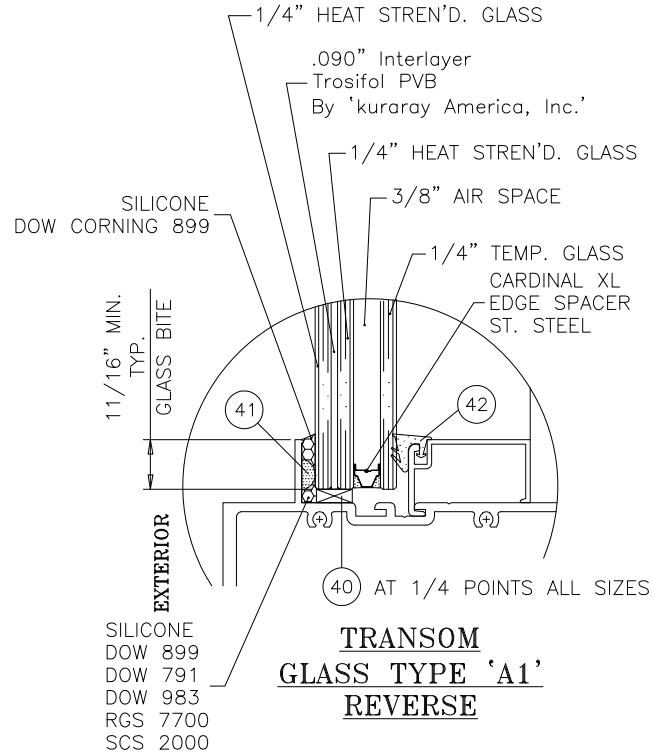
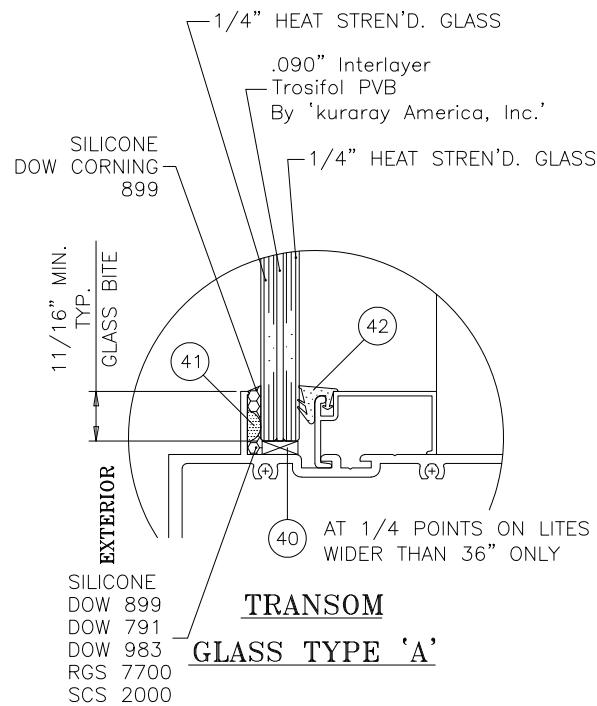
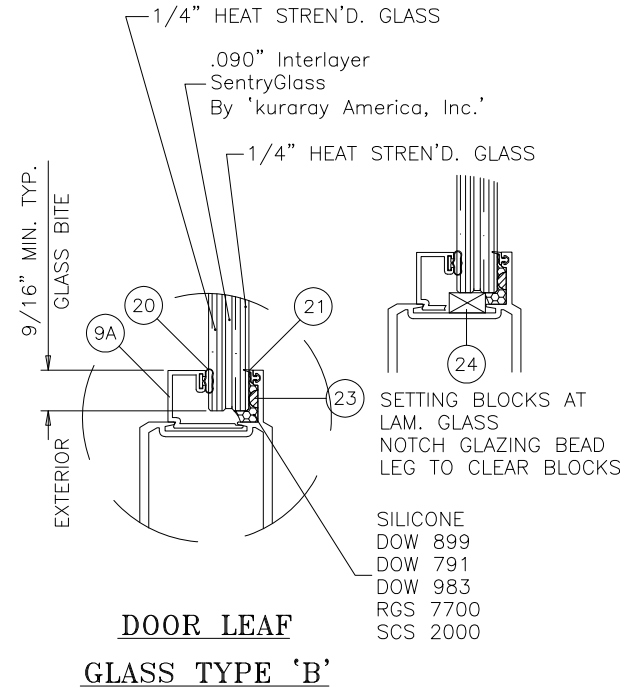
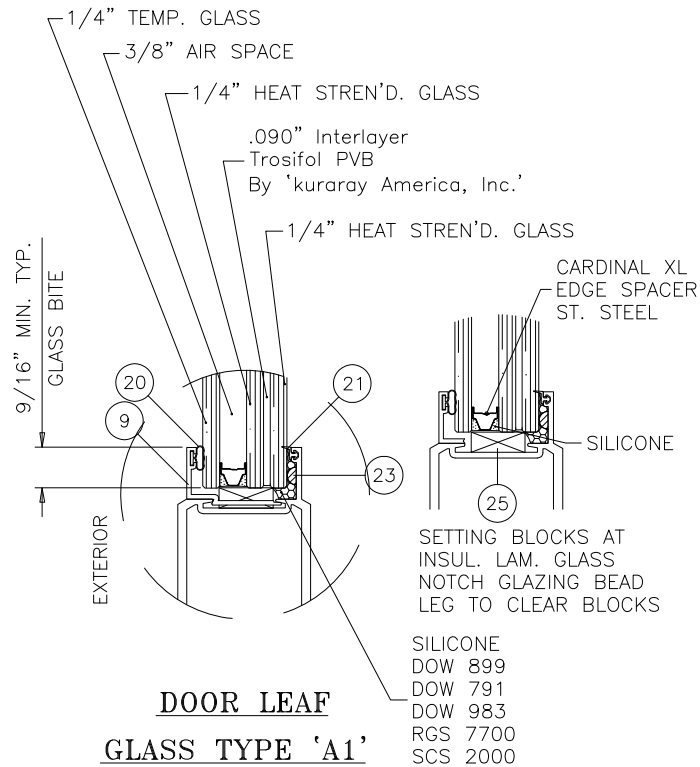
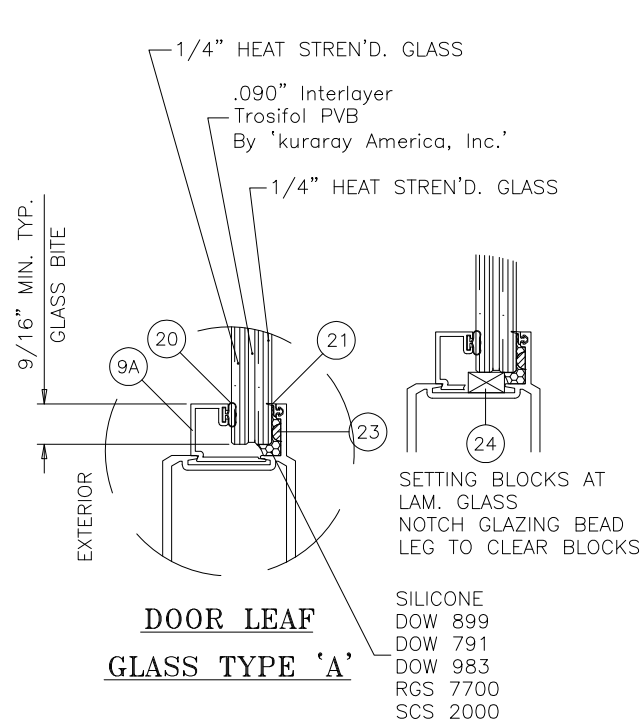
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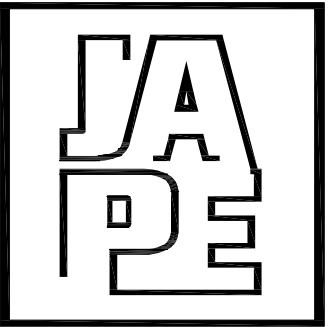
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GLAZING OPTIONS



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)



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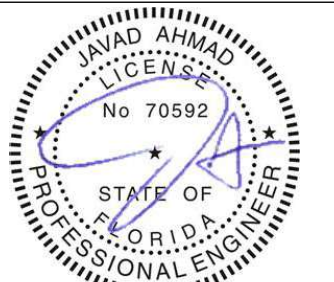
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Drawn by: JM

Check by: JA

Drawing no. JA-1518-26

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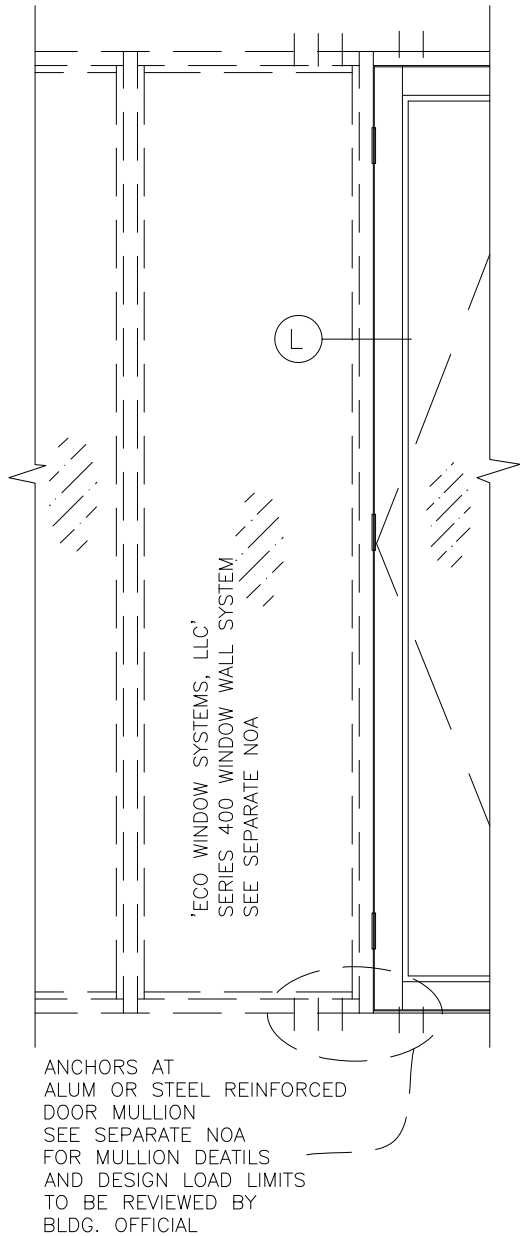
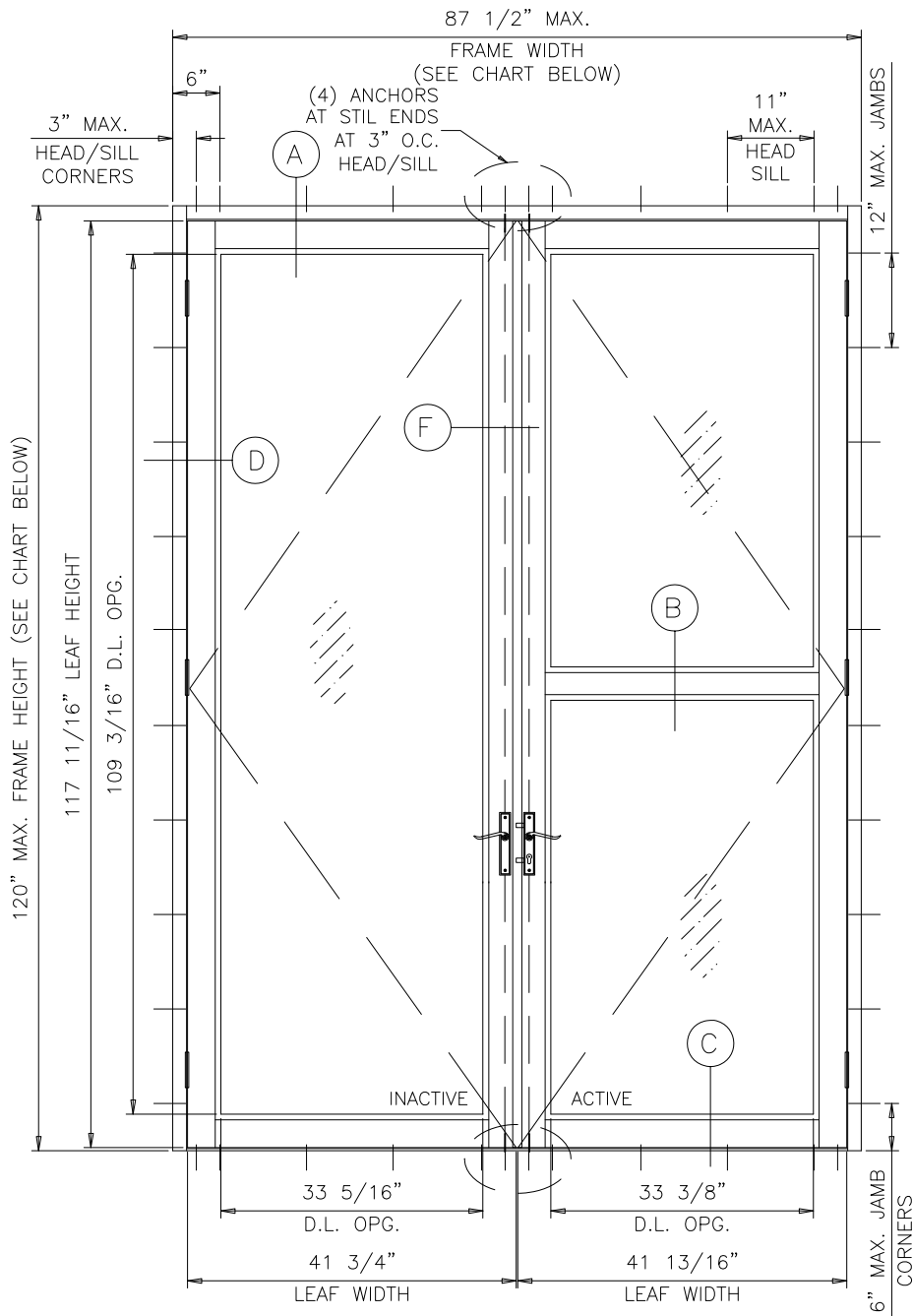
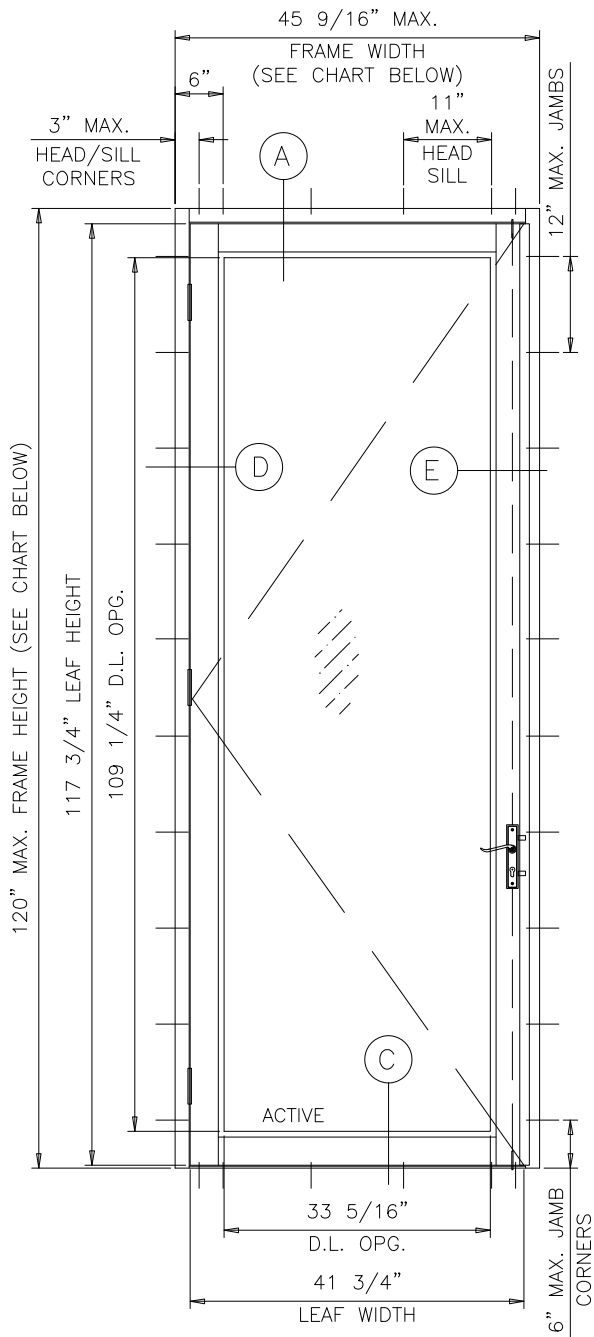
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TYPICAL ELEVATIONS

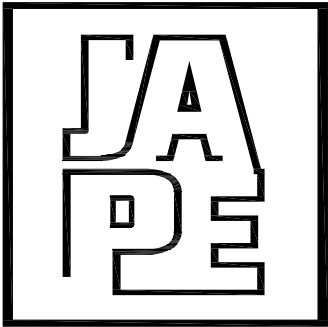


SINGLE DOORS LOAD CAPACITY - PSF											
DOOR DIMS.		GLASS TYPES				LOCK OPTIONS					
		TYPE 'A' & 'A1'		TYPE 'B' & 'B1'		OPTION #1		OPTION #3		OPTION #4	
FRAME		POS.(+)	NEG.(−)	POS.(+)	NEG.(−)	POS.(+)	NEG.(−)	POS.(+)	NEG.(−)	POS.(+)	NEG.(−)
WIDTH	HEIGHT										
42-9/16"	108"	80.0	80.0	60.0	60.0	80.0	80.0	80.0	80.0	60.0	60.0
45-9/16"	120"	70.0	70.0	60.0	60.0	70.0	70.0	—	—	60.0	60.0

DOUBLE DOORS LOAD CAPACITY - PSF									
DOOR DIMS.		GLASS TYPES		LOCK OPTIONS					
		TYPE 'A' & 'A1'		OPTION #1		OPTION #3			
FRAME		POS.(+)	NEG.(−)	POS.(+)	NEG.(−)	POS.(+)	NEG.(−)	POS.(+)	NEG.(−)
WIDTH	HEIGHT								
81-1/2"	108"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
87-1/2"	120"	70.0	70.0	70.0	70.0	—	—	—	—

D.L.O. WIDTH=FRAME WIDTH-12.250" (X DOORS)
=(FRAME WIDTH-20.875")/2 (XX DOORS)
D.L.O. HEIGHT (ADA THRESHOLD)=FRAME HEIGHT-10.750" (4-1/4" BOTTOM RAIL)
=FRAME HEIGHT-16.500" (10" BOTTOM RAIL)
DOOR LEAF HEIGHT=FRAME HEIGHT-2.250"
FOR SIZES NOT SHOWN. ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE
SEE SHEET 4 FOR WATER INFILTRATION RESISTANCE LIMITS

FL# 39630.6



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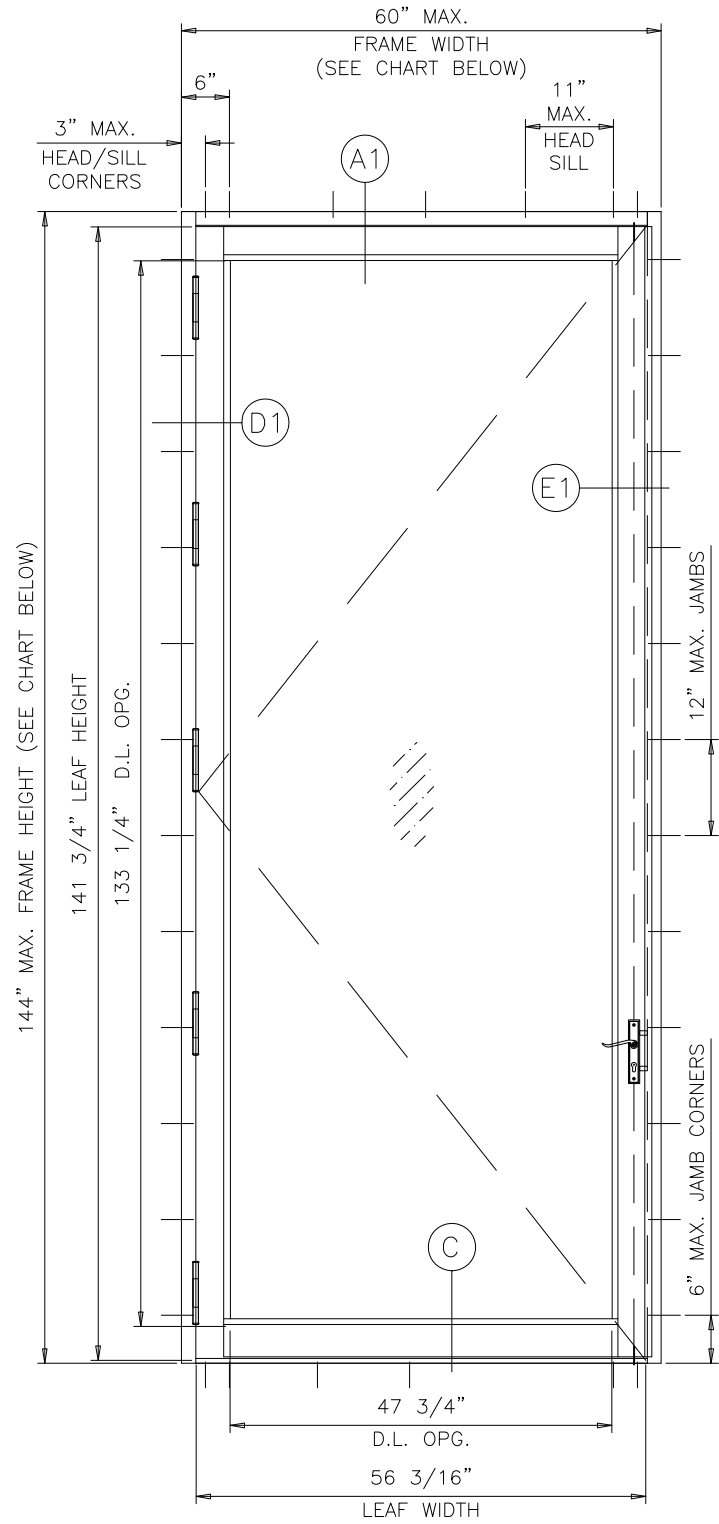


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TYPICAL ELEVATIONS



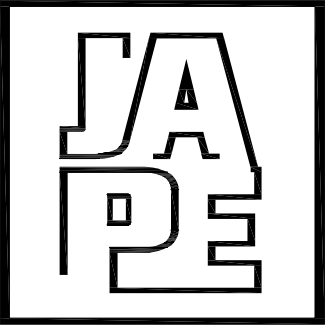
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DOOR DIMS.		GLASS TYPES				LOCK OPTIONS					
		TYPE 'A' & 'A1'		TYPE 'B' & 'B1'		OPTION #1		OPTION #3		OPTION #4	
FRAME		POS.(+)	NEG.(–)	POS.(+)	NEG.(–)	POS.(+)	NEG.(–)	POS.(+)	NEG.(–)	POS.(+)	NEG.(–)
WIDTH	HEIGHT										
60"	144"	–	–	60.0	60.0	–	–	–	–	60.0	60.0

D.L.O. WIDTH=FRAME WIDTH–12.250" (X DOORS)
D.L.O. HEIGHT (ADA THRESHOLD)=FRAME HEIGHT–10.750" (4–1/4" BOTTOM RAIL)
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DOOR LEAF HEIGHT=FRAME HEIGHT–2.250"

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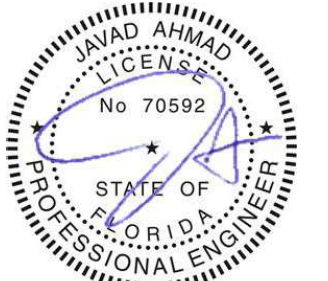
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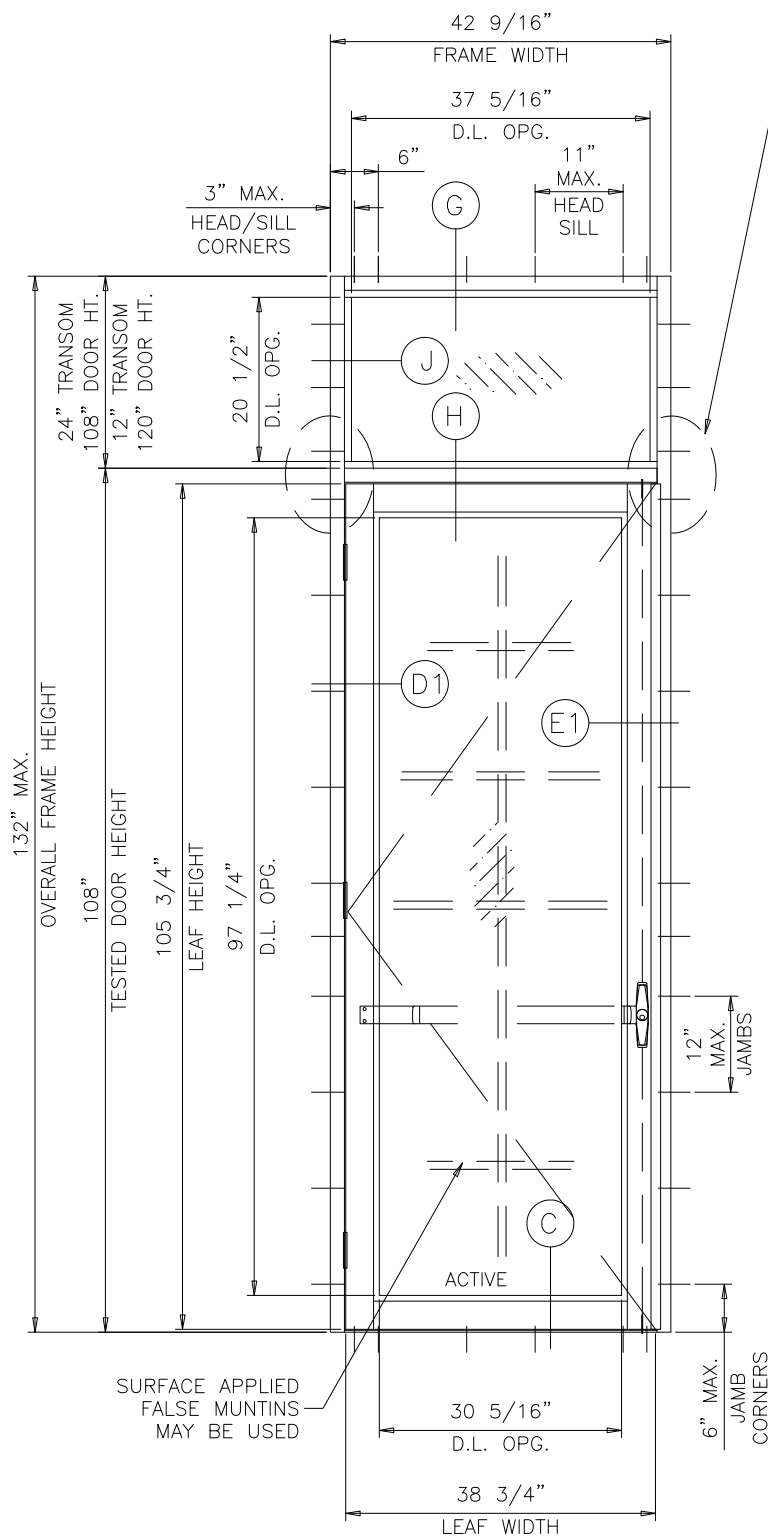
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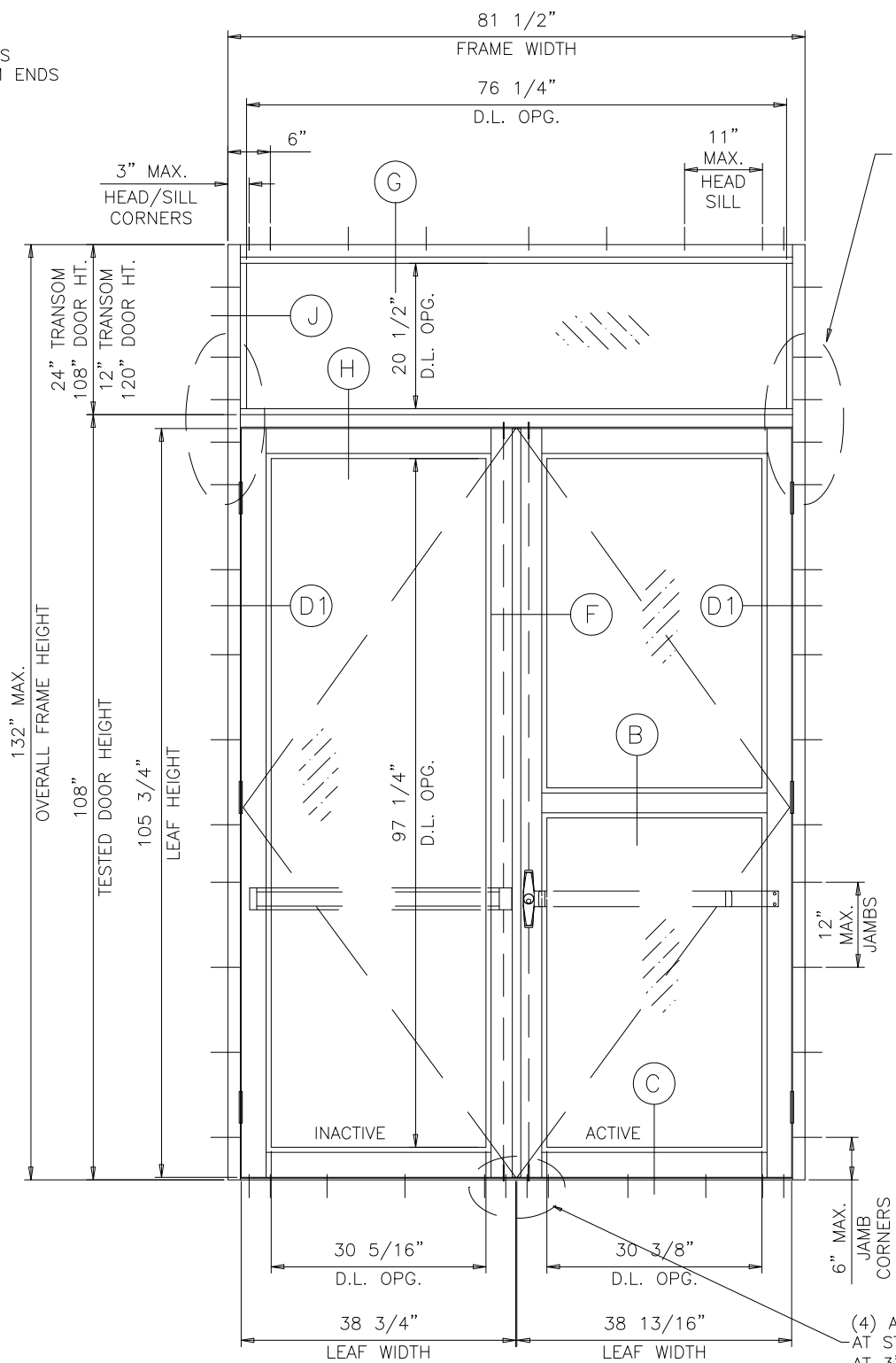
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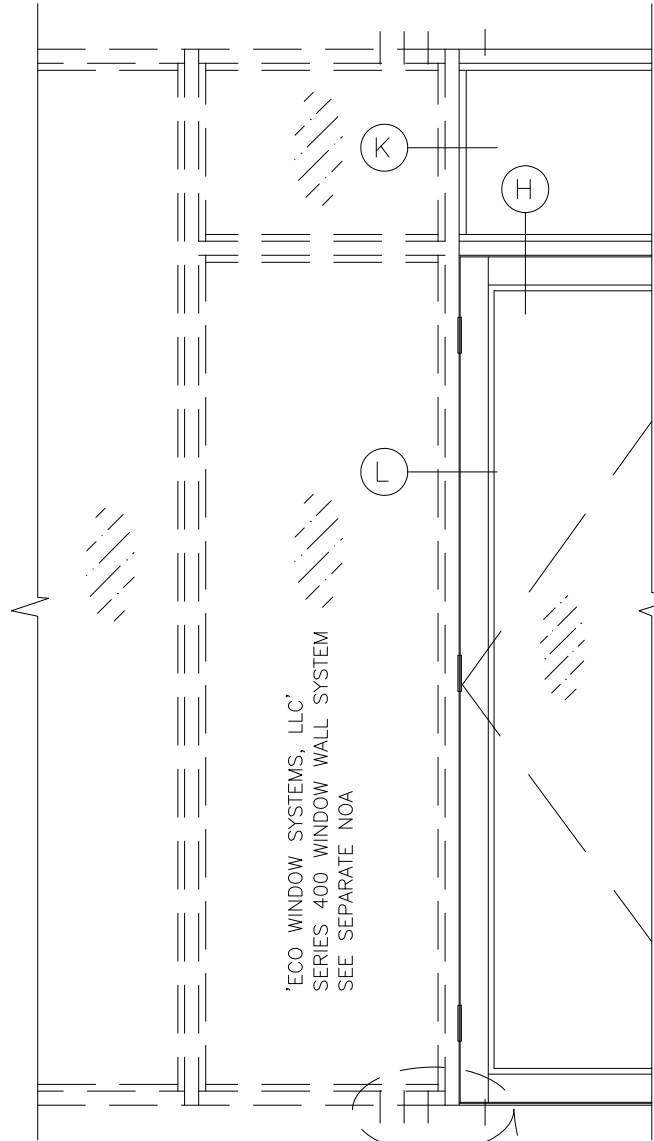
TYPICAL ELEVATIONS



(2) ANCHORS
AT TRANSOM ENDS
AT 6" O.C.



(4) ANCHORS
AT TRANSOM ENDS
AT 6" O.C.



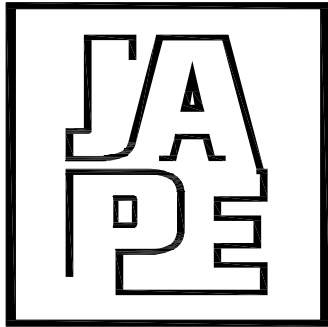
ANCHORS AT DOOR
MULLION SEE SEPARATE
APPROVAL TO BE
REVIEWED BY BLDG.
OFFICIAL.

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

SINGLE DOORS WITH TRANSOM LOAD CAPACITY - PSF						
DOOR DIMS.			LOCK OPTIONS			
			#1 & #2		#3	
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)
42-9/16"	108"	24"	70.0	80.0	70.0	80.0
45-9/16"	120"	12"	70.0	70.0	-	-

DOUBLE DOORS WITH TRANSOM LOAD CAPACITY - PSF						
DOOR DIMS.			LOCK OPTIONS			
			#1 & #2		#3	
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)
81-1/2"	108"	24"	70.0	80.0	70.0	80.0
81-1/2"	120"	12"	70.0	70.0	-	-

GLASS D.L.O. FORMULAE: (TRANSOM)
D.L.O. WIDTH = FRAME WIDTH - 5.250"
D.L.O. HEIGHT = TRANSOM HEIGHT - 5.250"



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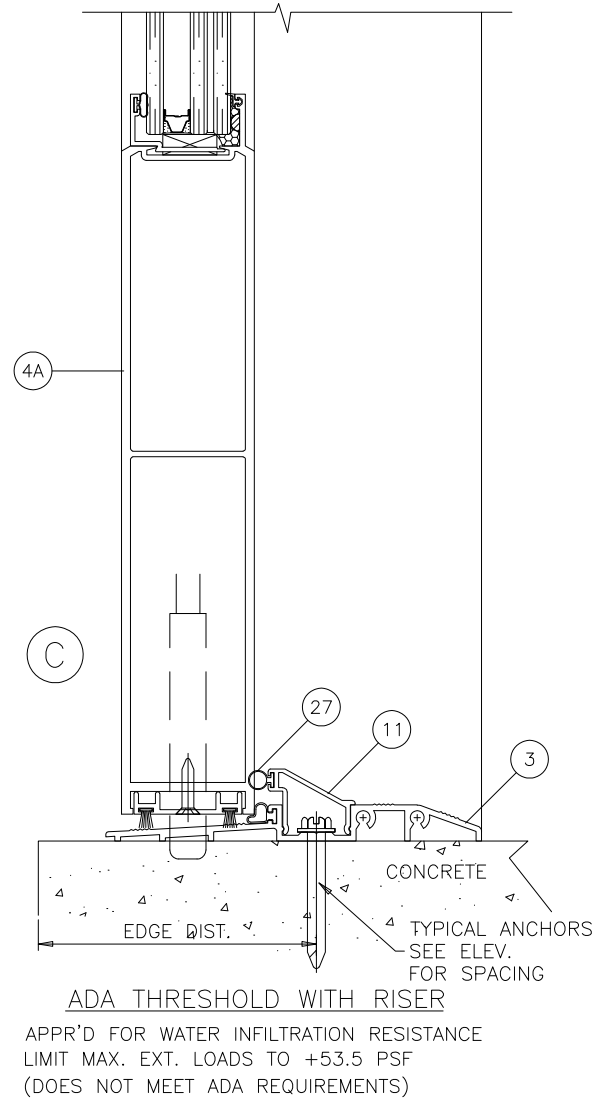
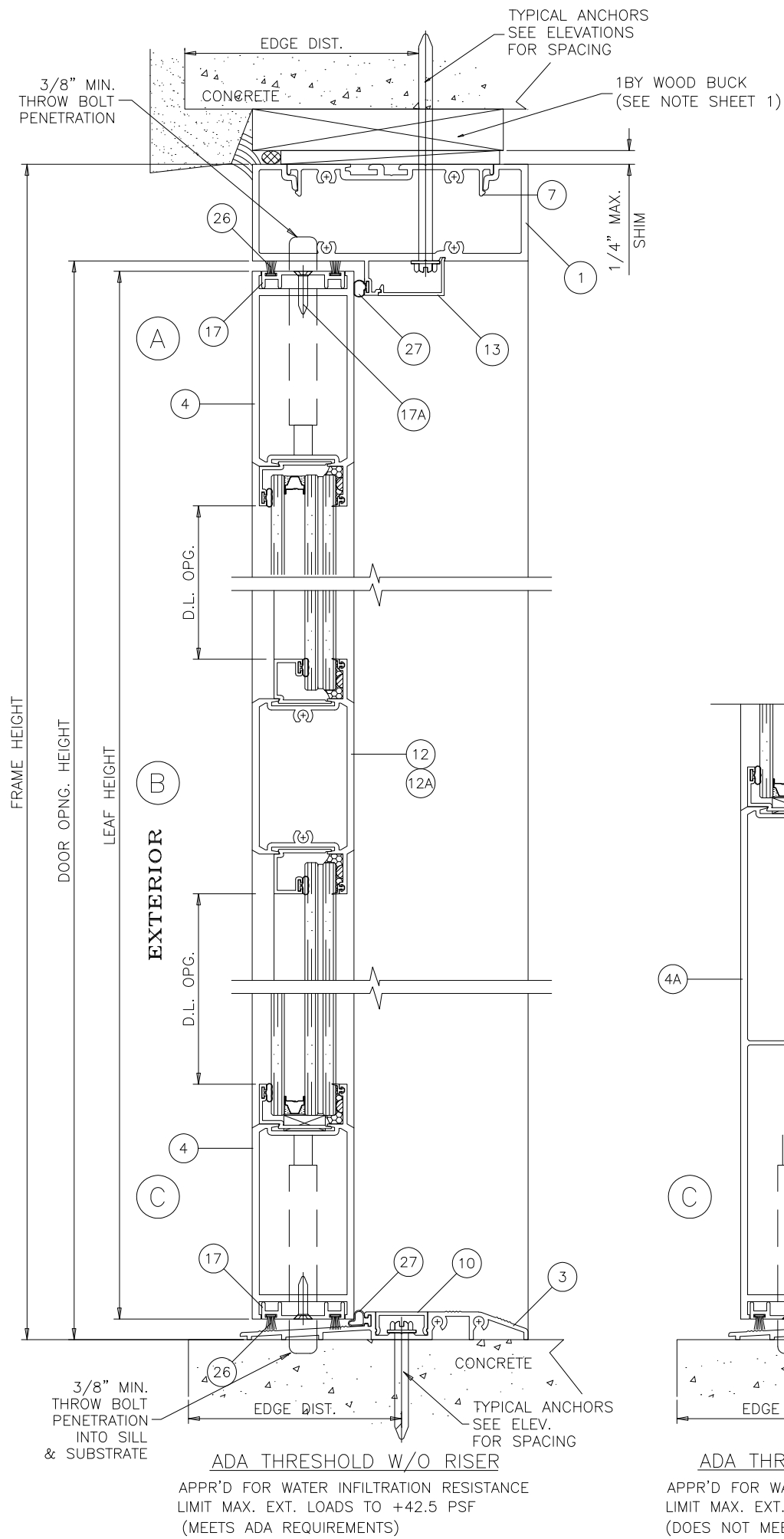


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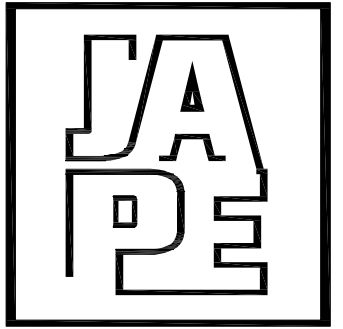
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NOTE:
DOORS WITH ADA THRESHOLD AND HEIGHTS GREATER THAN 108\"/>



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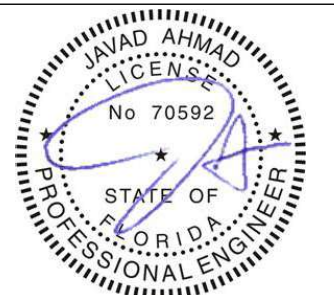


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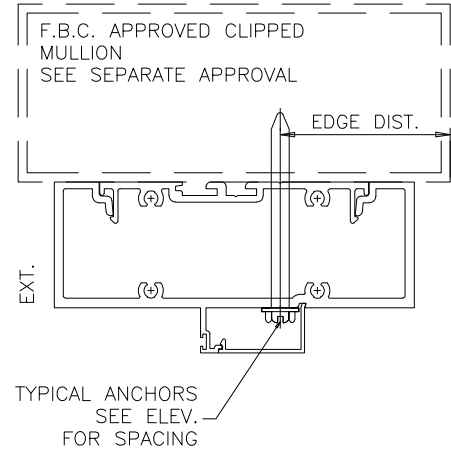
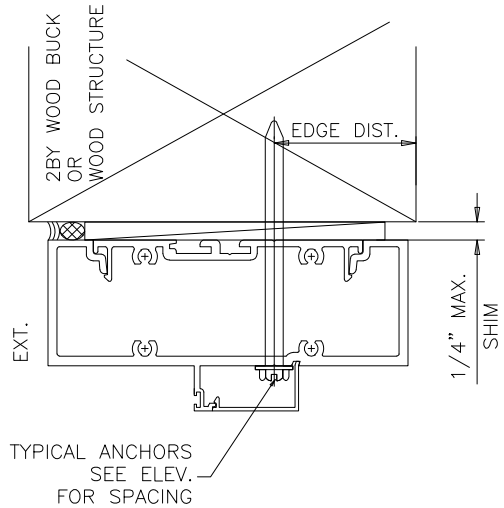
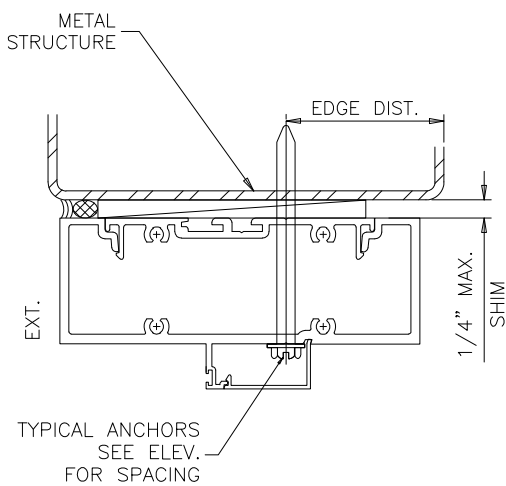
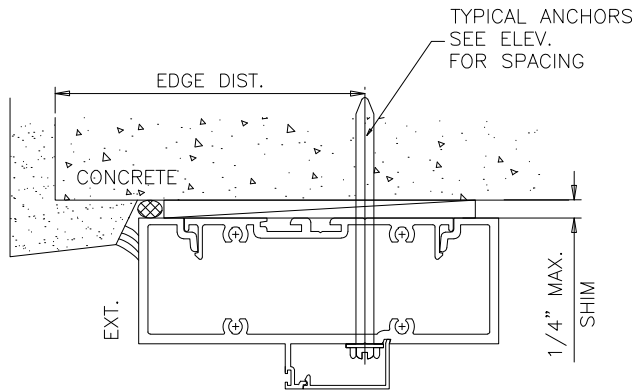


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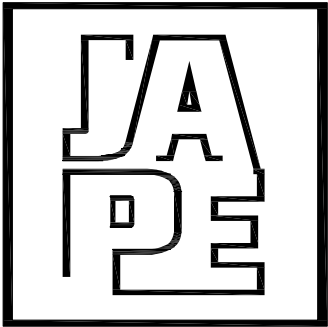


1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY "ECO WDW." MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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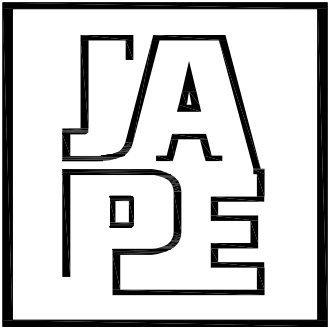
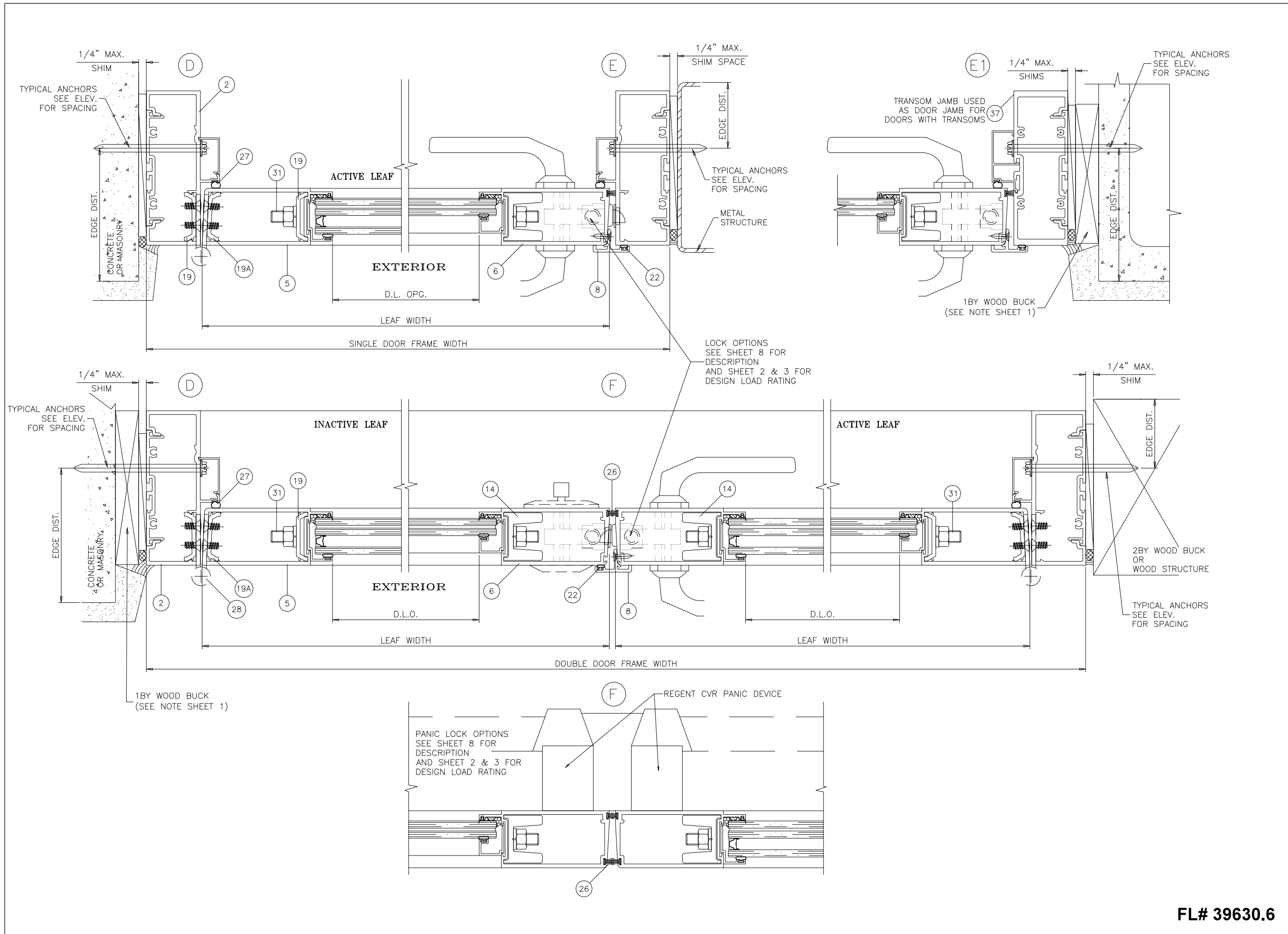
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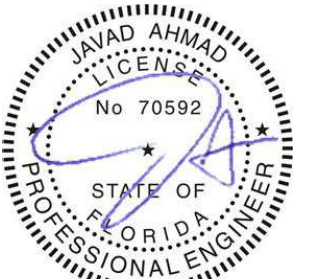
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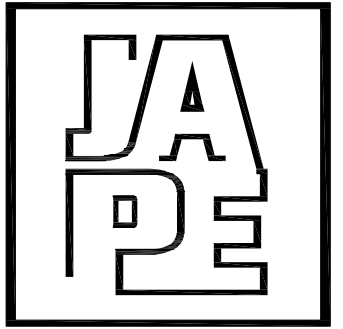
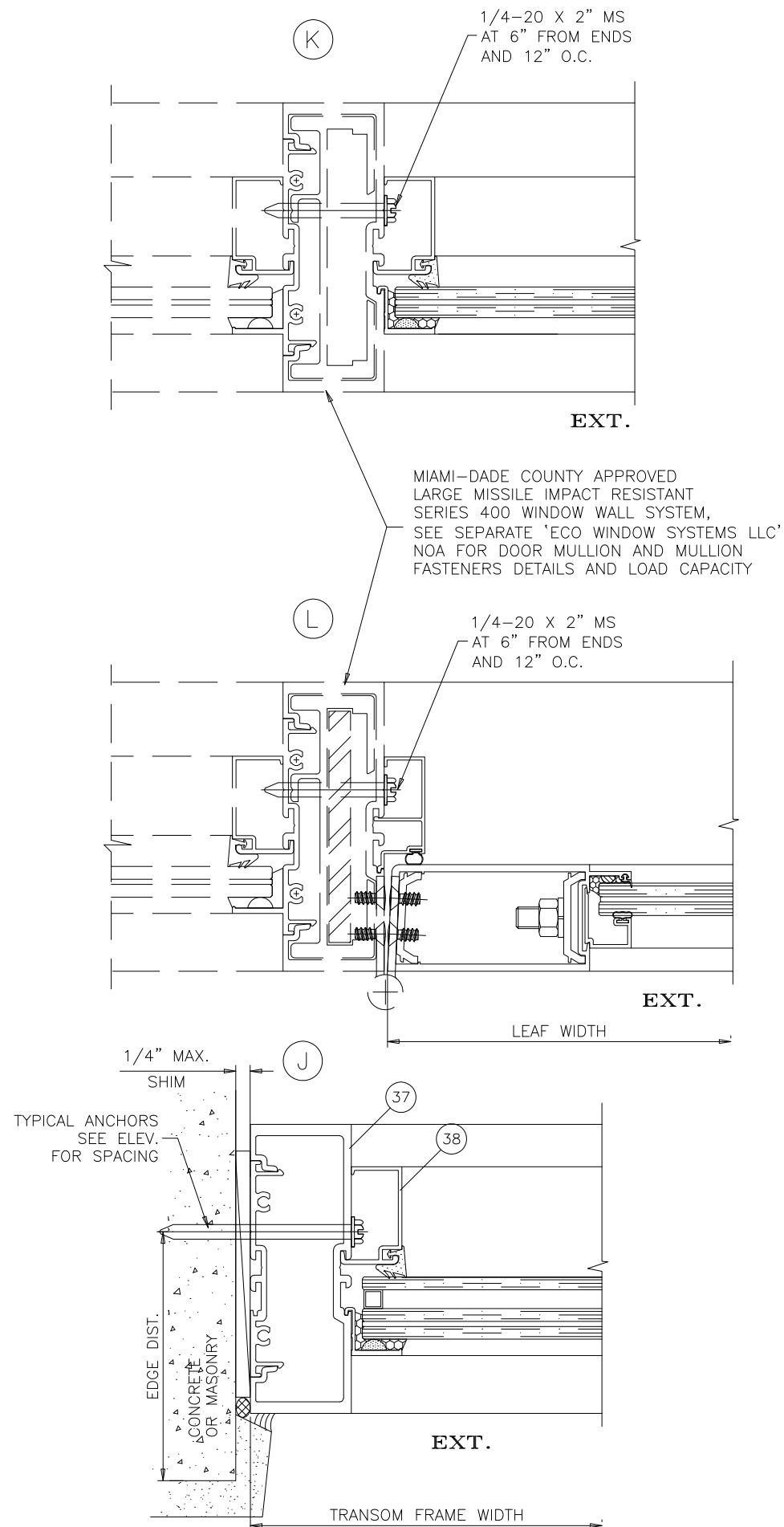
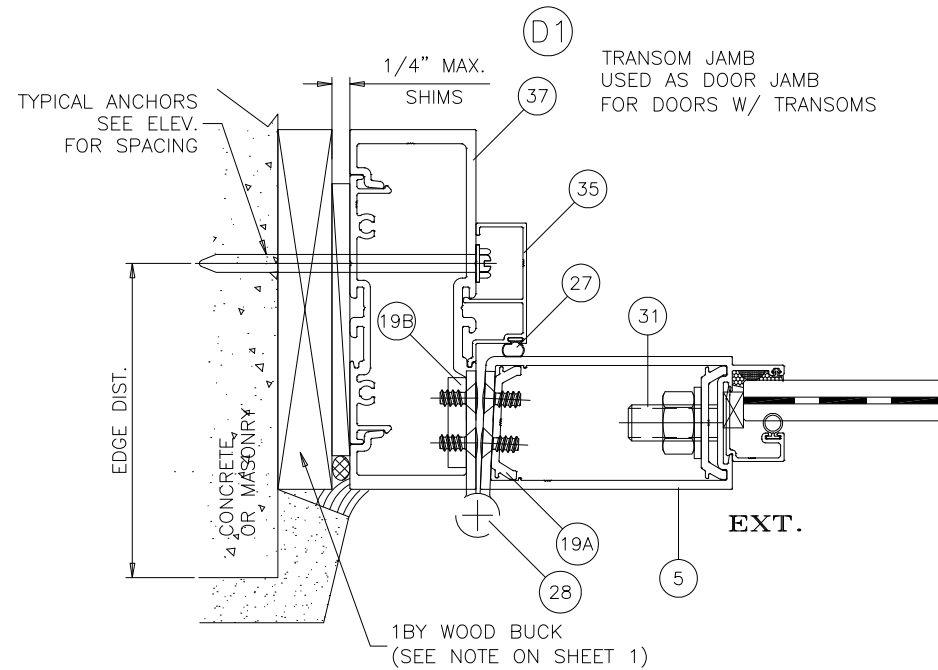
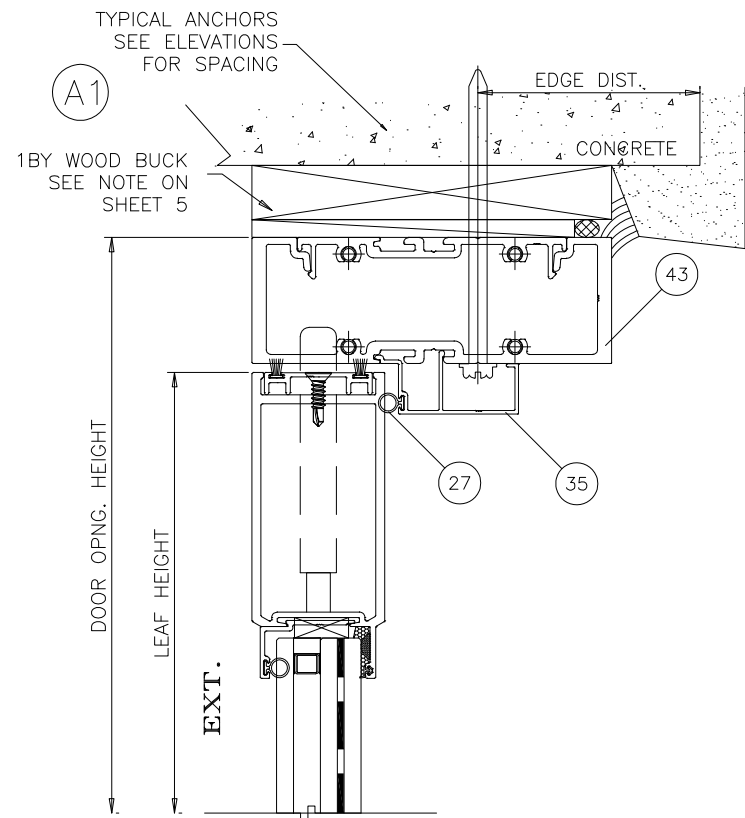
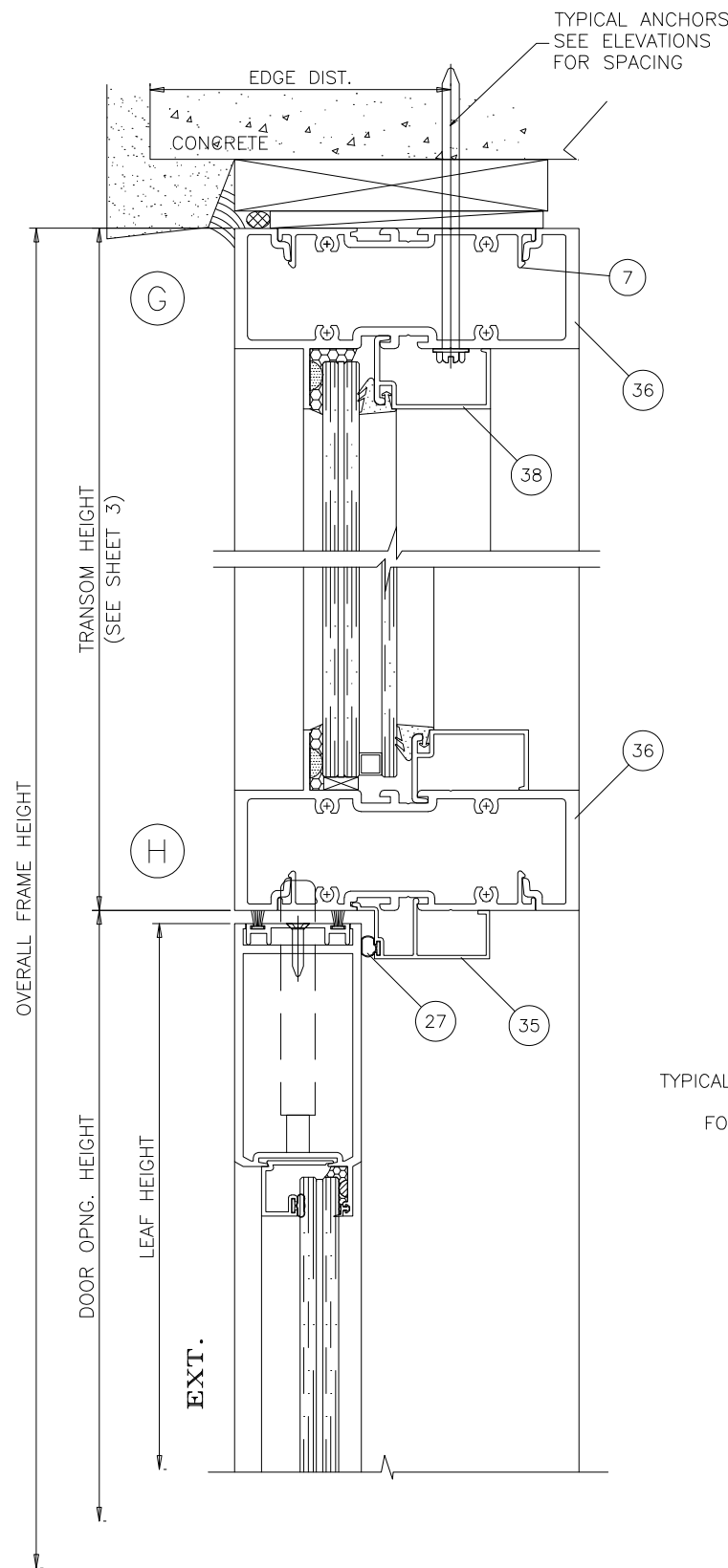
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PROJECT :

**SERIES 800
ALUMINUM OUTSWING
ENTRANCE DOOR**

(L.M.I.)
LARGE MISSILE IMPACT RATED

CLIENT :

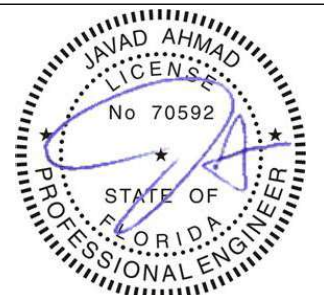


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LOCK OPTIONS:

OPTION #1

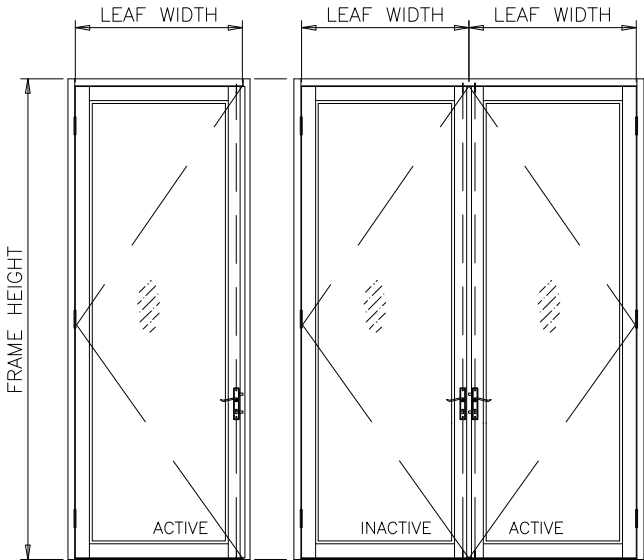
MAX. FRAME HEIGHT = 120 IN.
MAX. LEAF WIDTH = 41-3/4 IN.

ACTIVE LEAF:

3 POINT LOCK SYSTEM (2002-HSS-48 BY REGENT)
AT 42-1/2" FROM BOTTOM
HANDLE ACTIVATES 6 PLY HOOK LOCK AND SHOOT BOLTS
ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON
INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(4) #8 X 1/2" FH SMS

INACTIVE LEAF:

2 POINT LOCK SYSTEM BY 'REGENT' AT 42-1/2"
FROM BOTTOM
HANDLE ACTIVATES SHOOT BOLTS ENGAGING AT
HEAD AND SILL
FASTENED TO INACTIVE LEAF LOCK STILE WITH
(2) 6-32 X 5/16" PH MACHINE SCREWS



OPTION #2

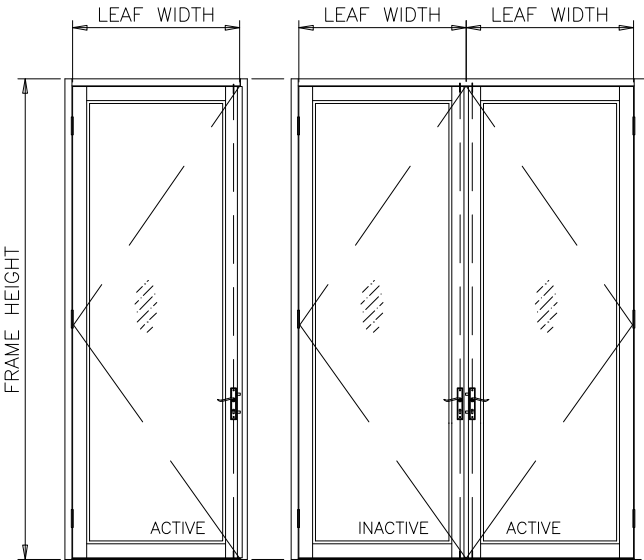
MAX. FRAME HEIGHT = 120 IN.
MAX. LEAF WIDTH = 41-3/4 IN.

ACTIVE LEAF:

4 POINT LOCK SYSTEM (DL01-6007 BY INTERLOCK)
AT 42" FROM BOTTOM
HANDLE ACTIVATES HOOK LOCK 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 5/16" FH MS
(1) 10-32 X 1-5/8" FH MS

INACTIVE LEAF:

2 POINT LOCK SYSTEM BY 'INTERLOCK' AT 42"
FROM BOTTOM
HANDLE ACTIVATES SHOOT BOLTS ENGAGING AT
HEAD AND SILL
FASTENED TO INACTIVE LEAF LOCK STILE WITH
(2) 8-32 X 2-3/16" OH MS



OPTION #3

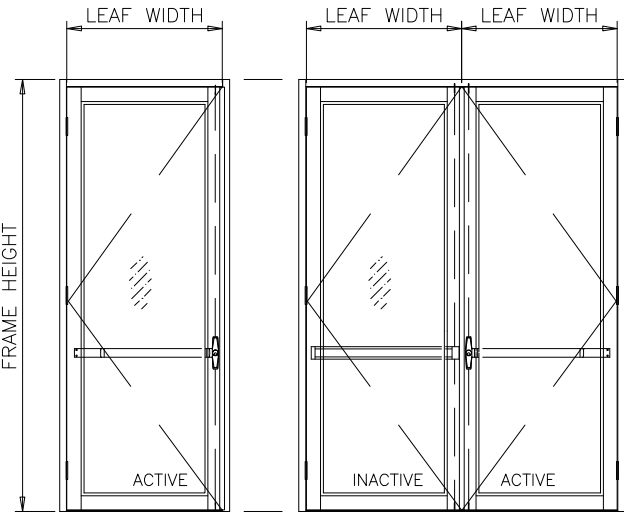
MAX. FRAME HEIGHT = 108 IN.
MAX. LEAF WIDTH = 38-9/16 IN.

ACTIVE LEAF:

'SERIES 5770' CONCEALED VERTICAL ROD PANIC EXIT
DEVICE BY 'REGENT'
LOCATED AT 42-1/2" FROM SILL
FASTENED TO ACTIVE LEAF WITH
(4) #10 X 3/4" FH SDS
(2) 10-32 X 3/4" FH MS
(2) 10-32 X 2" FH MS

INACTIVE LEAF

'SERIES 5770' CONCEALED VERTICAL ROD PANIC EXIT
DEVICE BY 'REGENT'
LOCATED AT 42-1/2" FROM SILL
FASTENED TO INACTIVE LEAF WITH
(2) 10-32 X 3/4" FH MS
(4) #10 X 3/4" FH MS

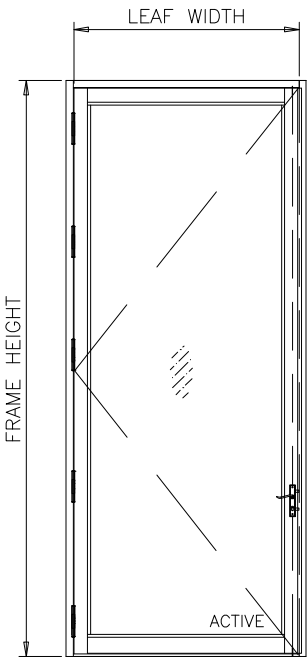


OPTION #4

MAX. FRAME HEIGHT = 144 IN.
MAX. LEAF WIDTH = 56-3/16 IN.

ACTIVE LEAF:

3 POINT LOCK SYSTEM (2002-HSS-48 BY REGENT)
AT 42-1/2" FROM BOTTOM
HANDLE ACTIVATES 6 PLY HOOK LOCK AND SHOOT
BOLTS ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON
INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(4) #8 X 1/2" FH SMS



HINGES OPTIONS:

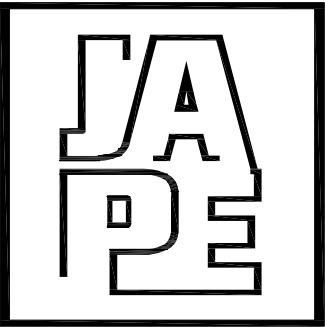
OPTION #1: (FH≤120")

4-1/2" LONG FLUSH MOUNT STEEL BUTT HINGES BY 'REGENT'
(3) PER LEAF
(1) AT 9" FROM TOP TO CL OF HINGE
(1) AT 7-1/4" FROM BOTTOM TO CL OF HINGE
CENTER HINGE EQUALLY SPACED FROM TOP & BOTTOM HINGE
FASTENED WITH 1/4-20 X 1/2" FH MACHINE SCREWS
FOUR PER HASP(LEAF).

OPTION #2: (FH>120")

4-1/2" LONG FLUSH MOUNT STEEL BUTT HINGES BY 'REGENT'
(5) PER LEAF
(1) AT 9" FROM TOP TO CL OF HINGE
(1) AT 7-1/4" FROM BOTTOM TO CL OF HINGE
(3) EQUALLY SPACED FROM TOP & BOTTOM HINGE.

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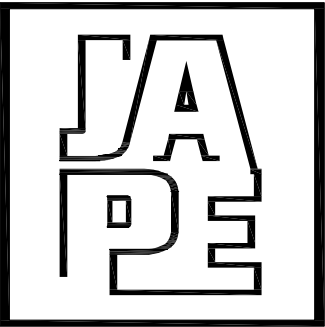
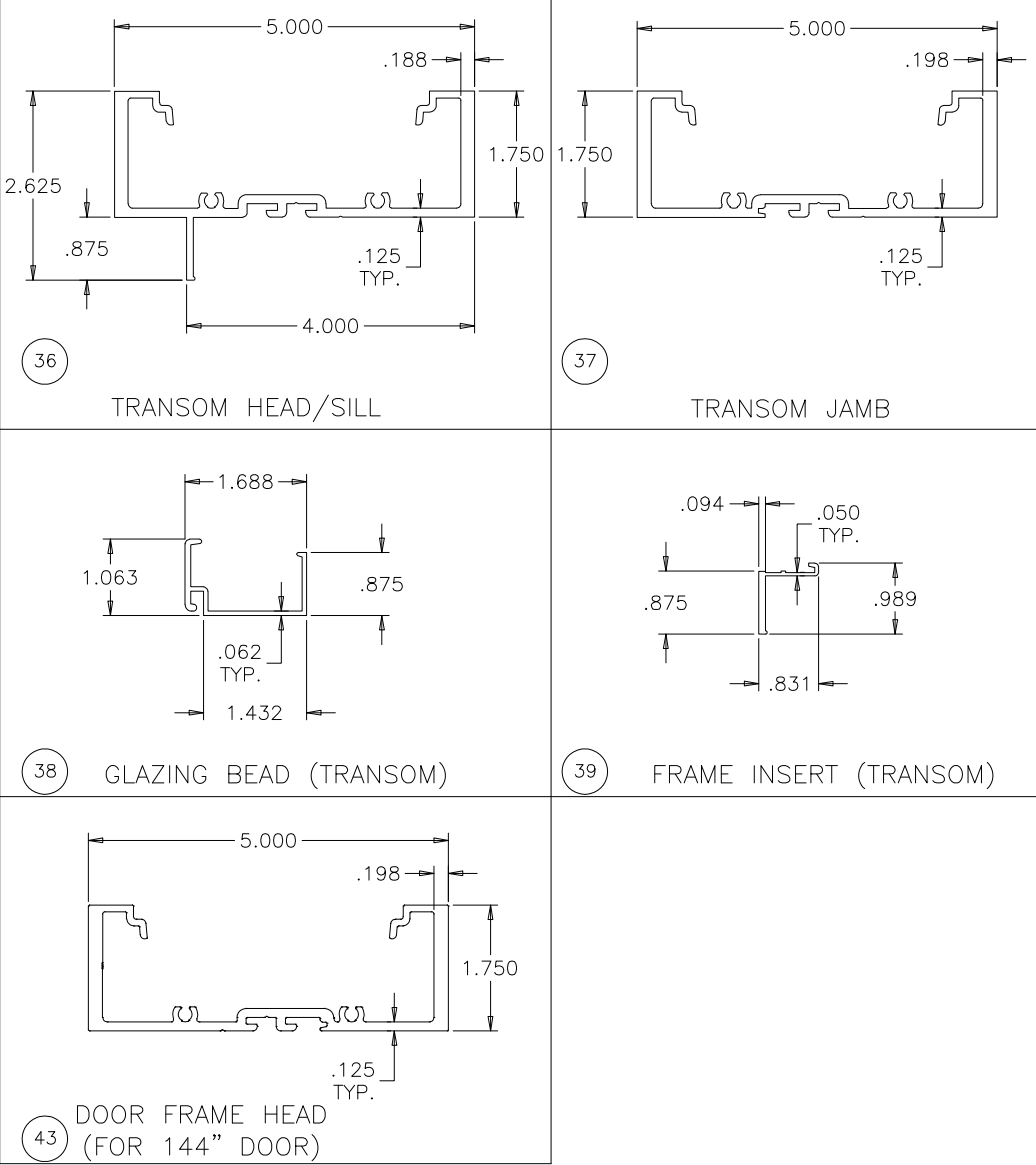
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E801	1	DOOR FRAME HEAD	6063-T6	—
2	E802	2	DOOR FRAME JAMB	6063-T6	—
3	E804	1	ADA THRESHOLD	6063-T6	—
4	E805	2/ LEAF	LEAF TOP AND BOTTOM RAIL	6063-T6	—
4A	E808	1/ LEAF	10” BOTTOM RAIL	6063-T6	—
5	E806	1/ LEAF	LEAF HINGE STILE	6063-T6	—
6	E823	1/ LEAF	LEAF LOCK STILE	6063-T6	—
7	UW-402	AS REQD.	SHEAR CLIP. 4” LONG	6063-T6	—
8	E809	AS REQD.	ASTRAGAL W’STRIP ADAPTER	6063-T6	—
9	E810	4/ LEAF	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	—
9A	E811	4/ LEAF	GLAZING BEAD (LAM. GLASS)	6063-T6	—
10	E816	AS REQD.	ADA THRESHOLD COVER	6063-T5	—
11	E818	AS REQD.	ADA THRESHOLD RISER	6063-T5	—
12	E819	AS REQD.	INTERMEDIATE HORIZONTAL TYPE 1	6063-T6	—
12B	E822	AS REQD.	INTERMEDIATE HORIZONTAL SHEAR BLOCK	6063-T6	—
13	E820	AS REQD.	DOOR FRAME SNAP COVER	6063-T5	—
14	E824	AS REQD.	ASTRAGAL STIFFENER	6063-T6	—
15	E825	AS REQD.	LOCK BACK-UP PLATE	6063-T6	—
17	E608	AS REQD.	LEAF W’STRIP ADAPTER	6063-T6	—
17A	#8 X 3/4”	AS REQD.	ADAPTER FASTENERS, AT 11” O.C.	6063-T6	FH SELF DRILLING SCREWS
18	E612	AS REQD.	LEAF ALIGNMENT BRACKET	6063-T6	—
19	E613	AS REQD.	LEAF CLAMP	6063-T6	—
19A	E613	AS REQD.	HINGE BACKUP PLATE, 9” LONG	6063-T6	—
20	E20618.KN3020	AS REQD.	GLAZING VINYL	EPDM	DUROMETER 70±5 SHORE A
21	E815	4/ LEAF	SILICONE DAM	EPDM	DUROMETER 70±5 SHORE A
22	E817	AS REQD.	ASTRAGAL SEAL	EPDM	DUROMETER 70±5 SHORE A
23	—	—	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
24	—	2/ LITE	SETTING BLOCK, 1/4” X 1/2” X 4” LONG	EPDM	AT 6” FROM EACH END, DUROMETER 65±5
25	—	2/ LITE	SETTING BLOCK, 1/4” X 3/4” X 4” LONG	EPDM	AT 6” FROM EACH END, DUROMETER 65±5
26	W11323	—	PILE W’STRIPPING	WOOL	ULTRAFAB
27	E20618-KN-3020	—	BULB W’STRIPPING	SANTOPRENE	EPDM
28	—	3/ LEAF	BUTT HINGES	ALUMINUM	REGENT
29	1/4-20 X 1/2”	—	HINGE INSTALLATION FASTENERS	—	FH MS
30	#12 X 1-1/4”	AS REQD.	FRAME ASSEMBLY SCREWS	—	HH SELF DRILLING SCREWS
31	—	—	3/8” DIA. THREADED ROD	STEEL	—
33	E812	AS REQD.	DOOR TRANSITION MULLION	6063-T6	—
34	E813	AS REQD.	TRANSITION MULLION STIFFENER	6063-T6	—
35	E814	AS REQD.	W’STRIP ADAPTER AT TRANSITION MULLION	6063-T6	—
36	UW-401	AS REQD.	TRANSOM HEAD/SILL	6063-T6	—
37	UW-407	AS REQD.	TRANSOM JAMB	6063-T6	—
38	UW-404	AS REQD.	GLAZING BEAD (TRANSOM)	6063-T6	—
39	UW-408	AS REQD.	FRAME INSERT (TRANSOM)	6063-T6	—
40	—	2/LITE	SETTING BLOCKS (3/16” X 1/2” X 2” LONG)	EPDM	DUROMETER 80±5 SHORE A
42	UW-406	AS REQD.	GLAZING GASKET	NEOPRENE	DUROMETER 55±5 SHORE A
43	UW-407	1	DOOR FRAME HEAD (FOR 144” DOOR)	6063-T6	—

SEALANTS:

ALL FRAME JOINTS AND SEAMS SEALED WITH SCHNEE-MOREHEAD SM5504 ACRYL-R SEAM SEALER.



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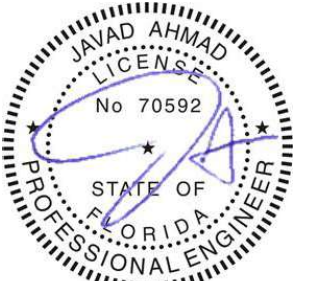
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Drawn by: JM

Check by: JA

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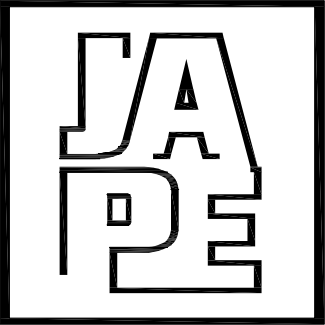
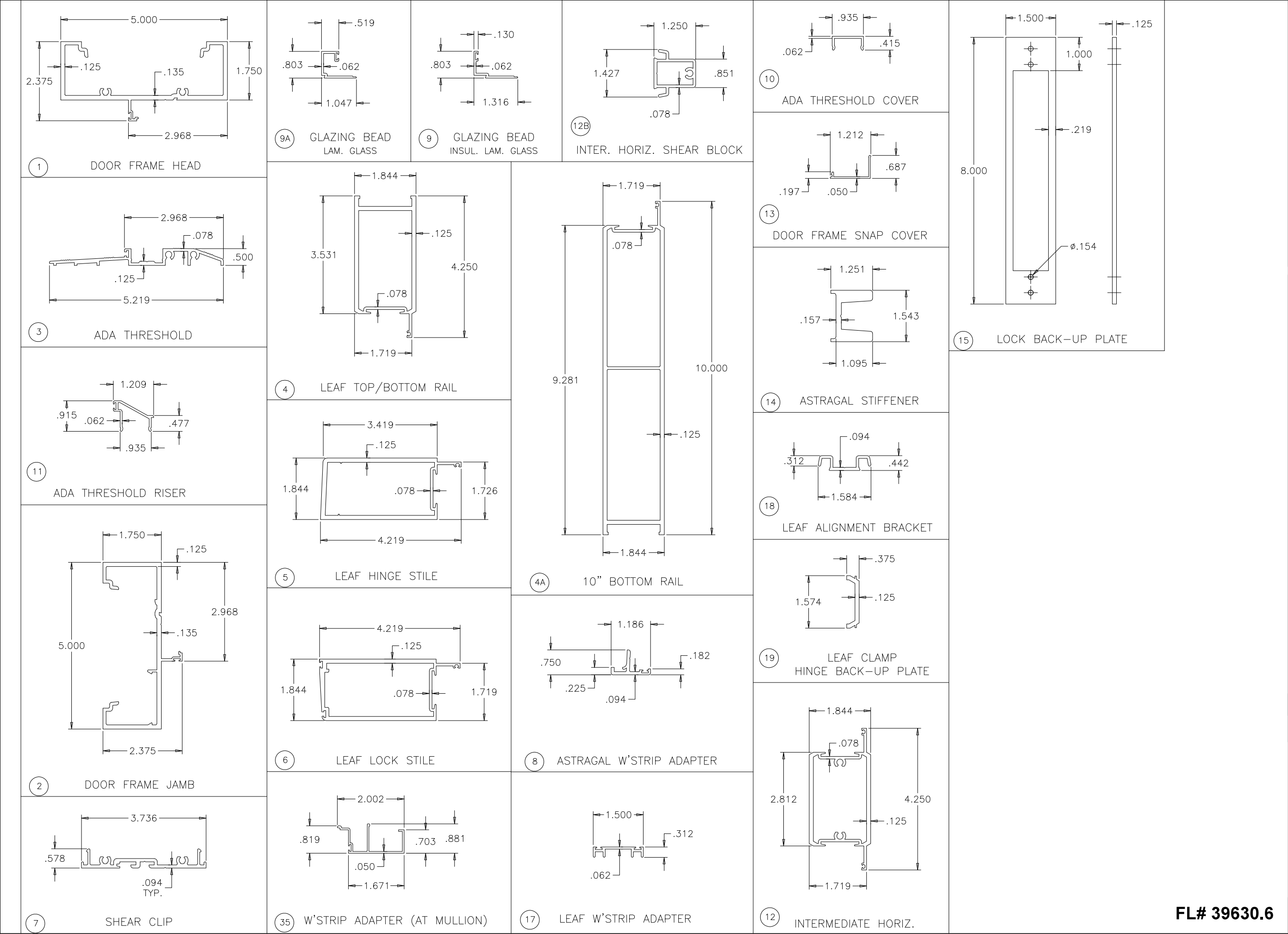


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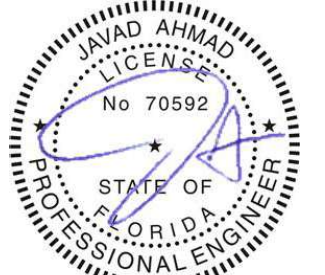
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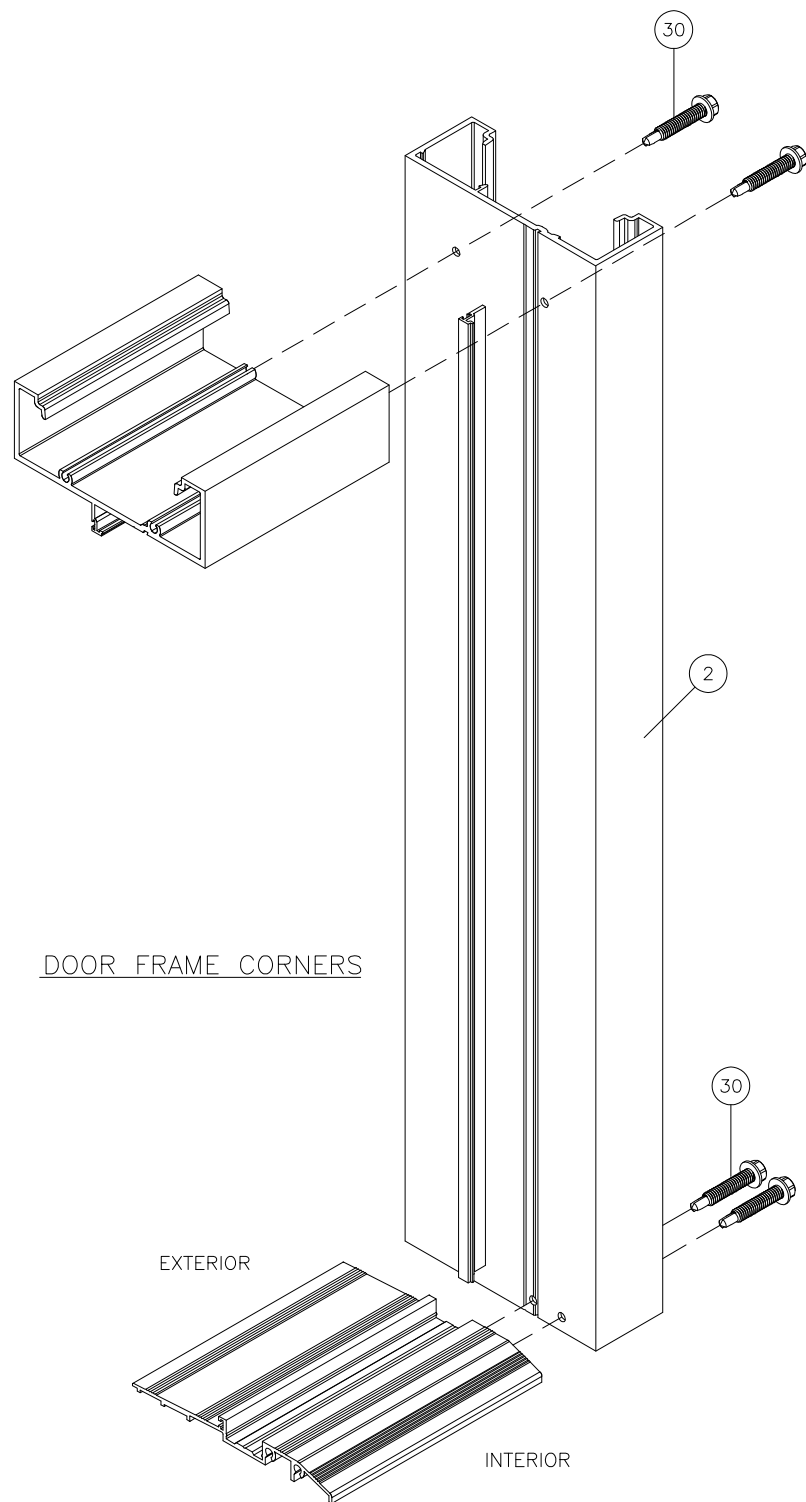
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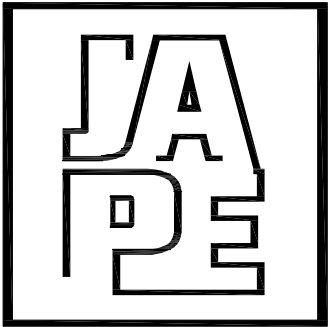
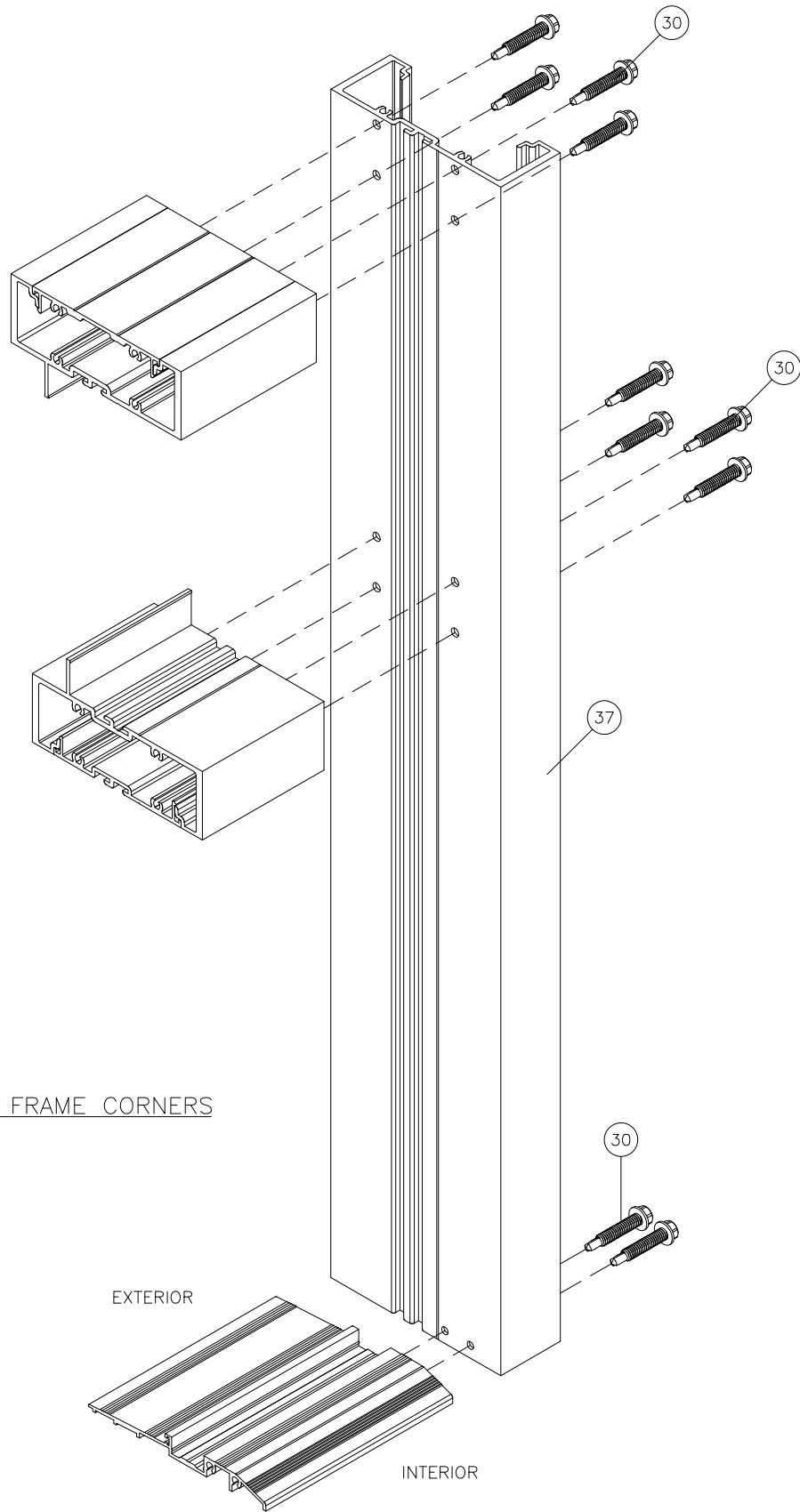
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DOOR FRAME CORNERS

DOOR W. TRANSOM FRAME CORNERS



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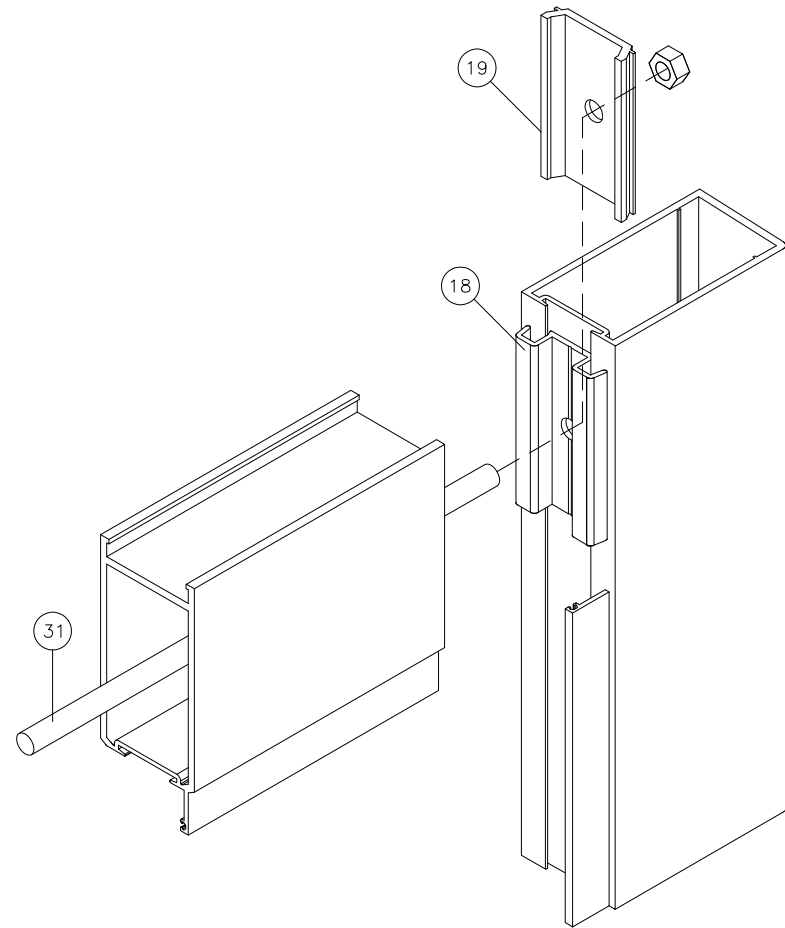
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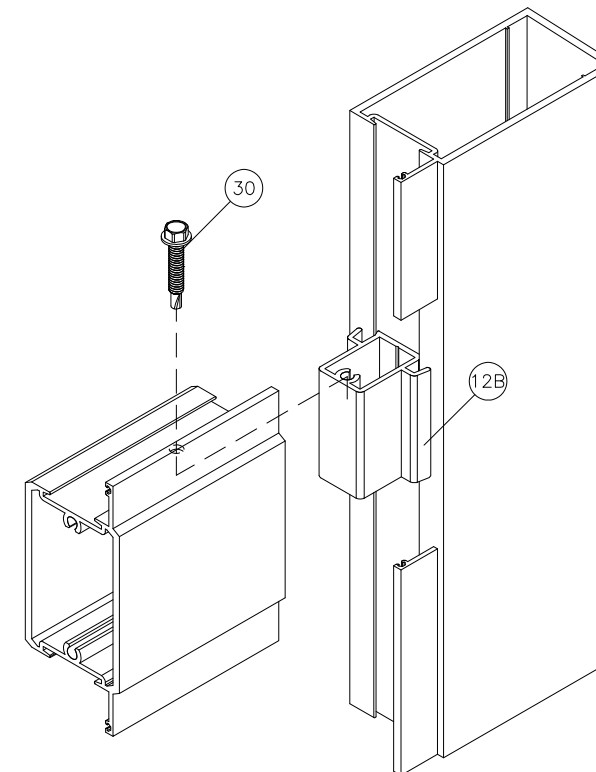
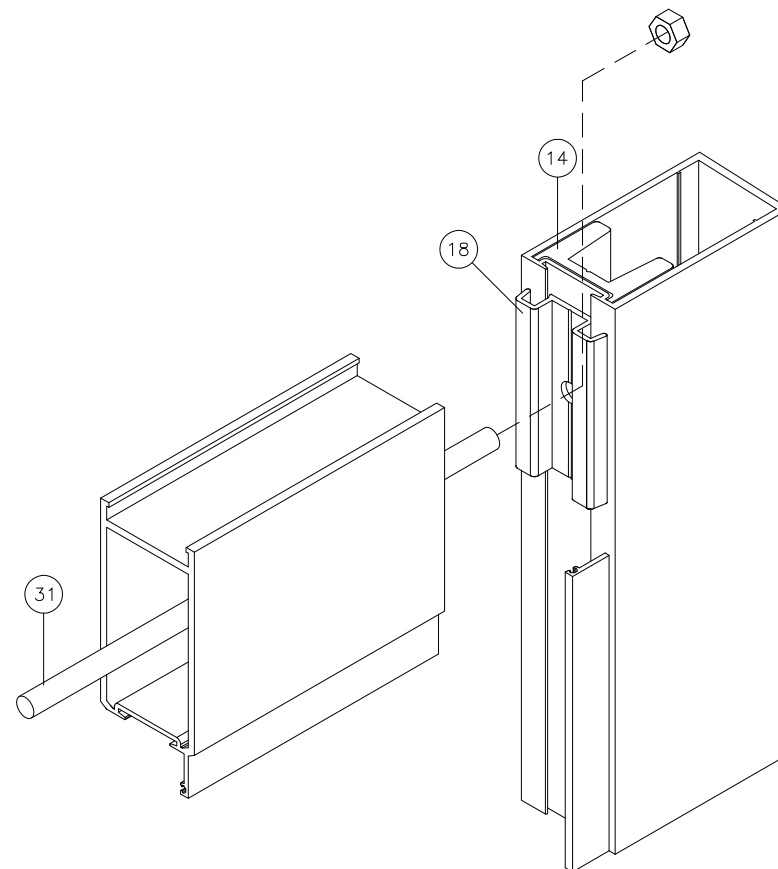
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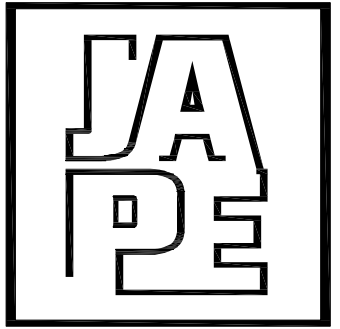
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LEAF TOP/BOTTOM CORNERS



INTERMEDIATE HORIZONTAL CORNERS



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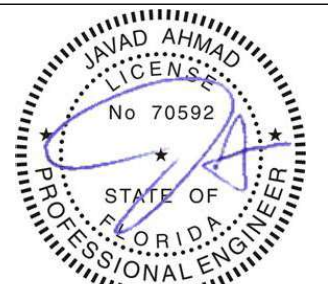


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