

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

SERIES 1500

ALUMINUM OUTSWING/INSWING PIVOT DOOR

APPROVAL APPLIES TO SINGLE (X) LEAF DOORS WITHOUT TRANSOM
OR SINGLE (X) LEAF DOORS WITH TRANSOM SEE SHEETS 2.
ALSO SINGLE(O) SIDELITE WITHOUT TRANSOM OR
SINGLE(O) SIDELITE WITH TRANSOM SEE SHEET 3.
ALSO SIDE BY SIDE COMBINATION OF DOOR AND SIDELITE USING
'H' MULLION IN BETWEEN.

DOORS NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION
RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) 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.

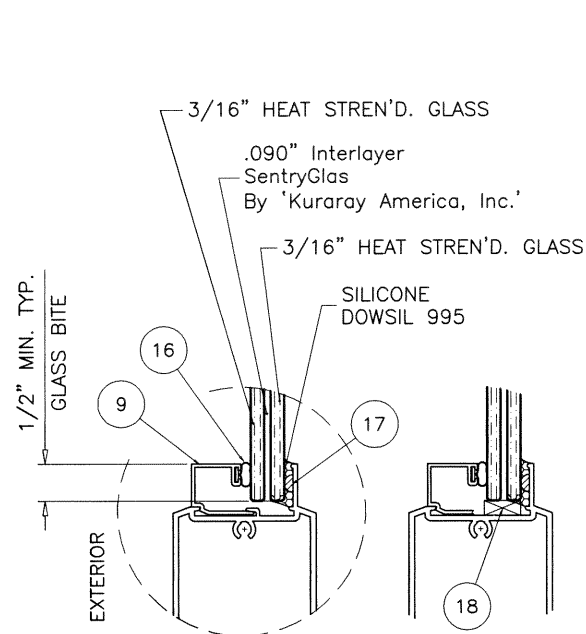
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

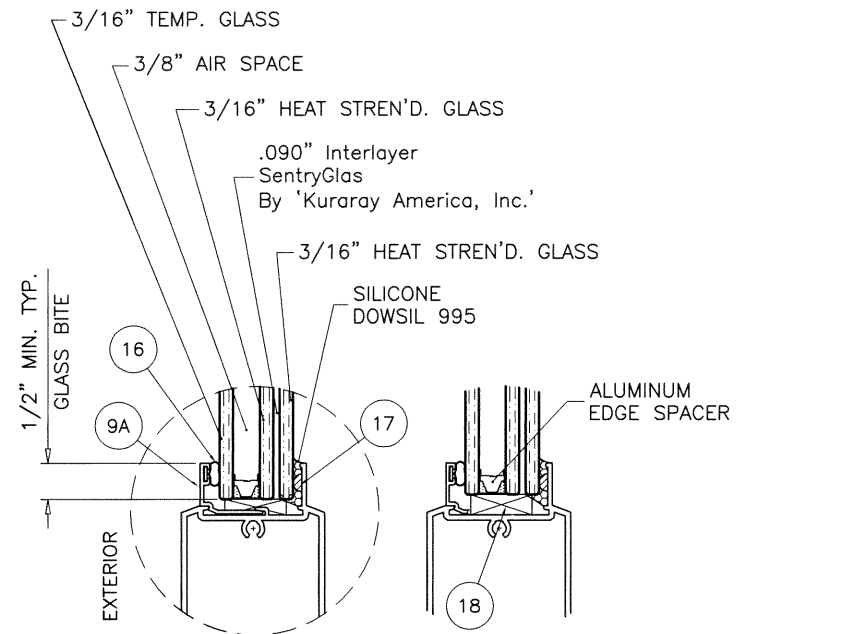
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.



GLASS TYPE 'A'



GLASS TYPE 'Ai'

GLAZING OPTIONS

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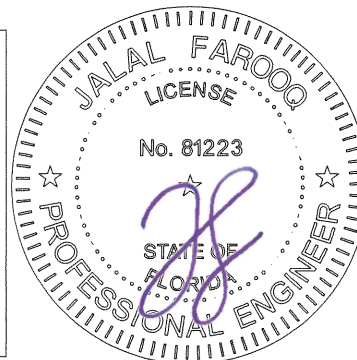
FL #30783

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED
ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF
ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED
ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.)
FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER
USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED
ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE
SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



SERIES 1500 ALUM OUTSWING/INSWING PIVOT DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.

8502 N.W. 80th STREET

MEDLEY, FL. 33166

TEL. (305) 885-5299 FAX (305) 885-5902

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

TEL. (305) 264-8100 FAX (305) 262-6978

COMP-ANL 19-109F-ECO

revisions:

date: 10-18-19

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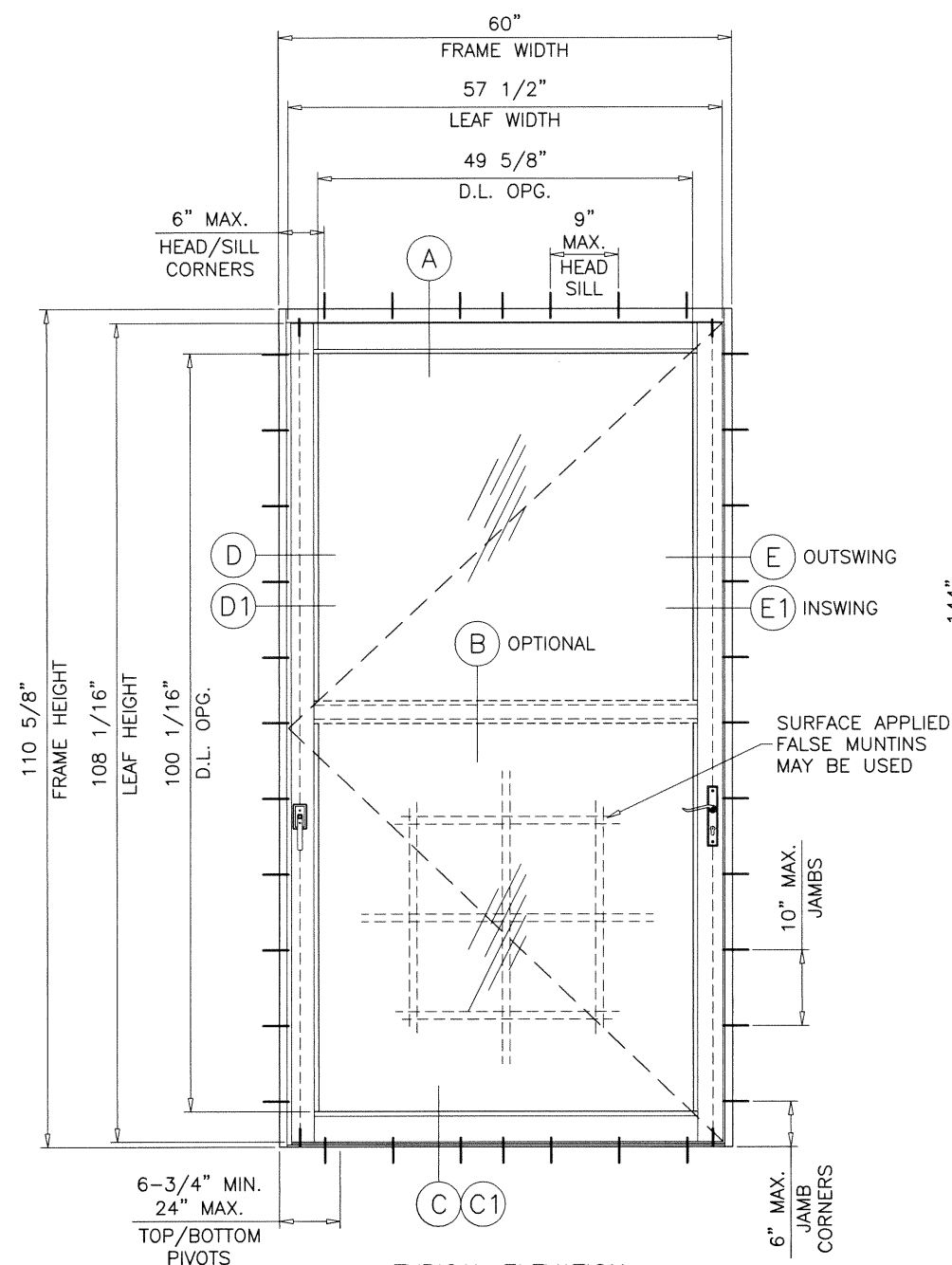
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chk. by:

drawing no.

19-109F

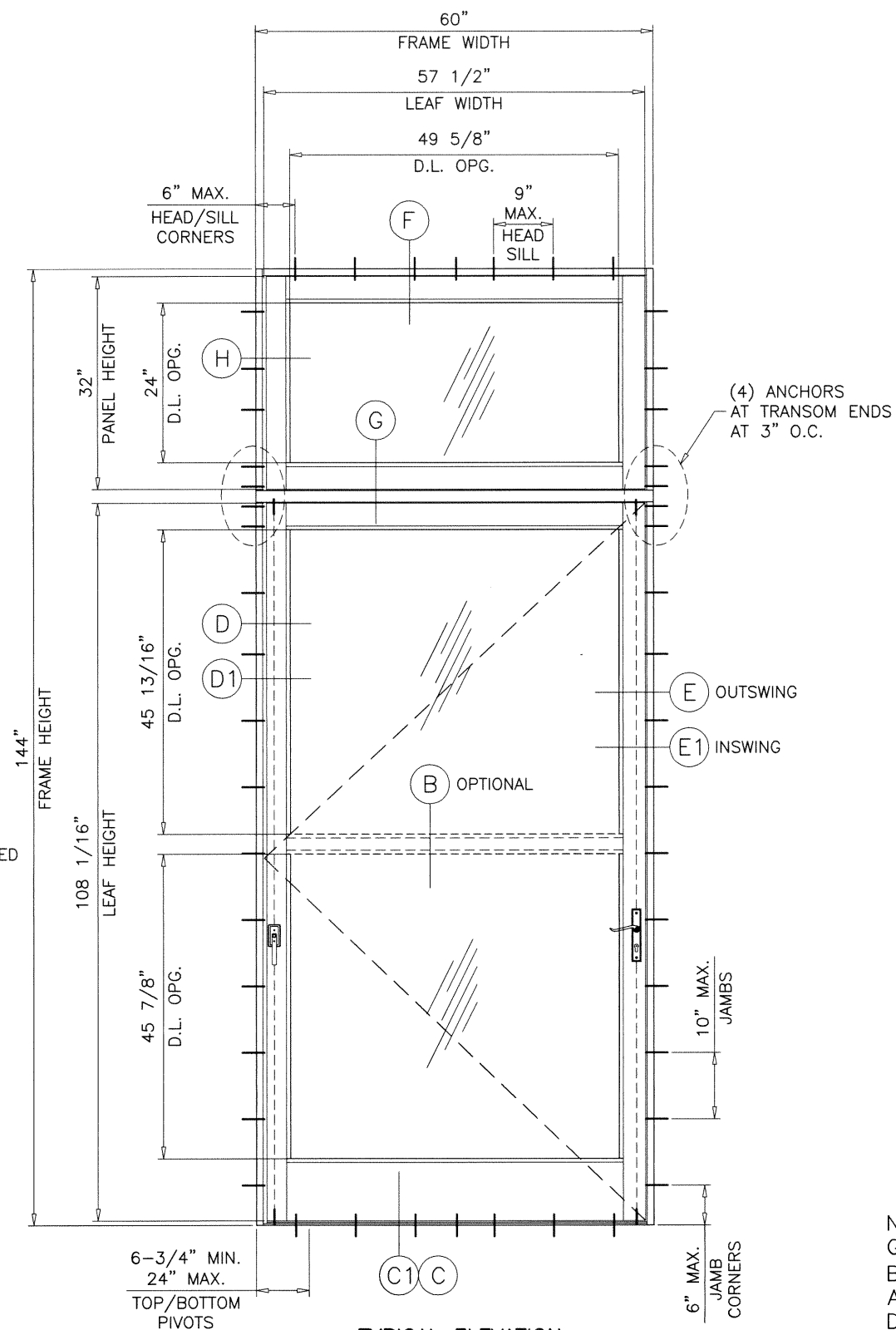
sheet 1 of 14



TYPICAL ELEVATION
(X)

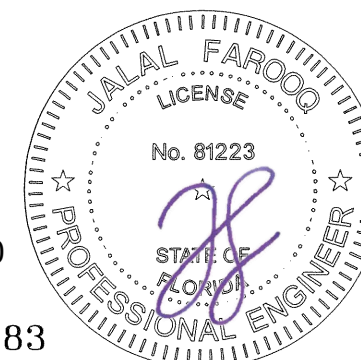
MAXIMUM DESIGN LOAD RATING = + 60.0 PSF
(FOR MAX. SIZE SHOWN ABOVE OR SMALLER) - 60.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

NOTE:
APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY AHJ.



TYPICAL ELEVATION
(O/X)

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



Sealed: 9/30/20

FL #30783

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH - 10.375"
D.L.O. HEIGHT = FRAME HEIGHT - 10.563"

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date: 10-18-19

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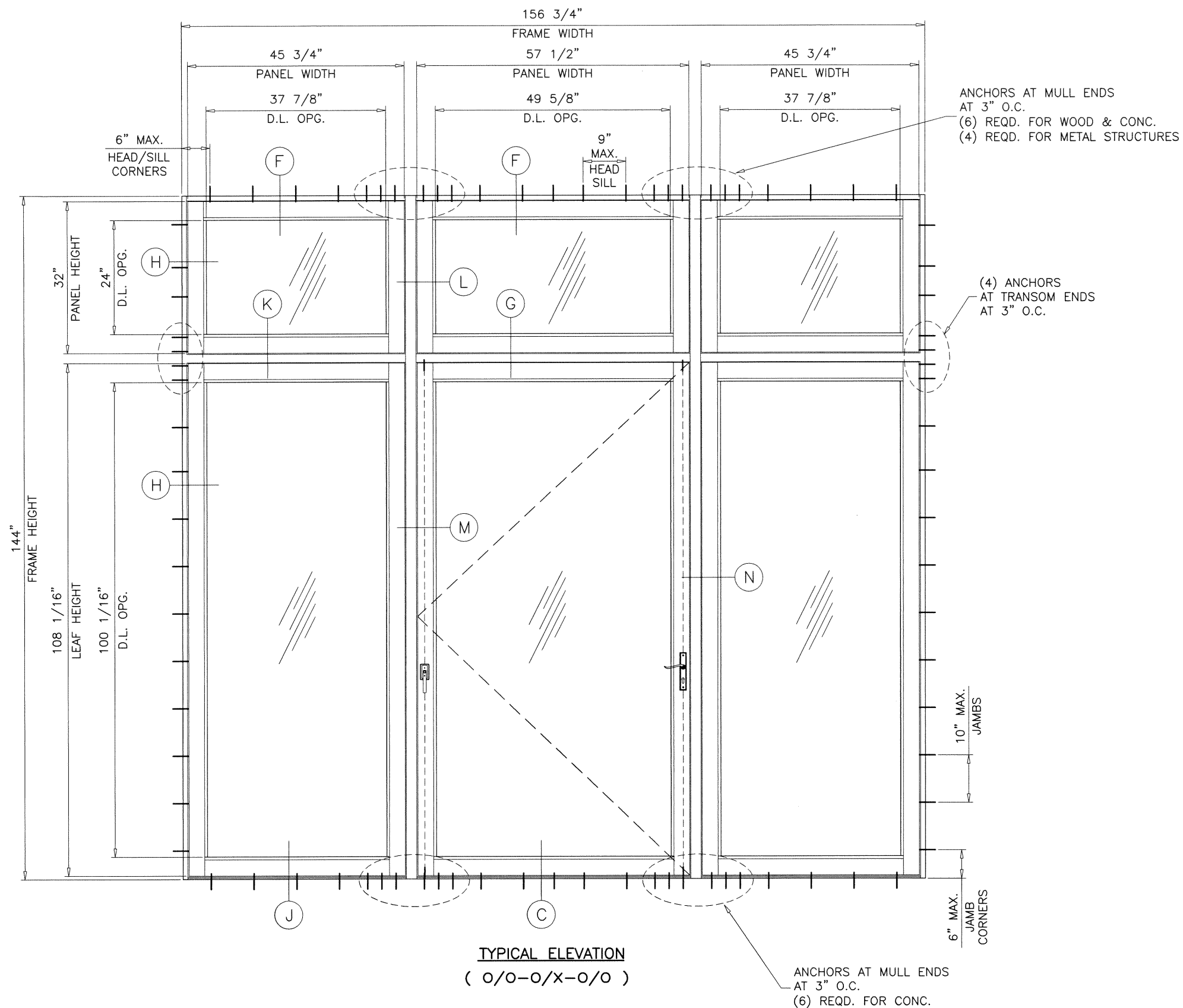
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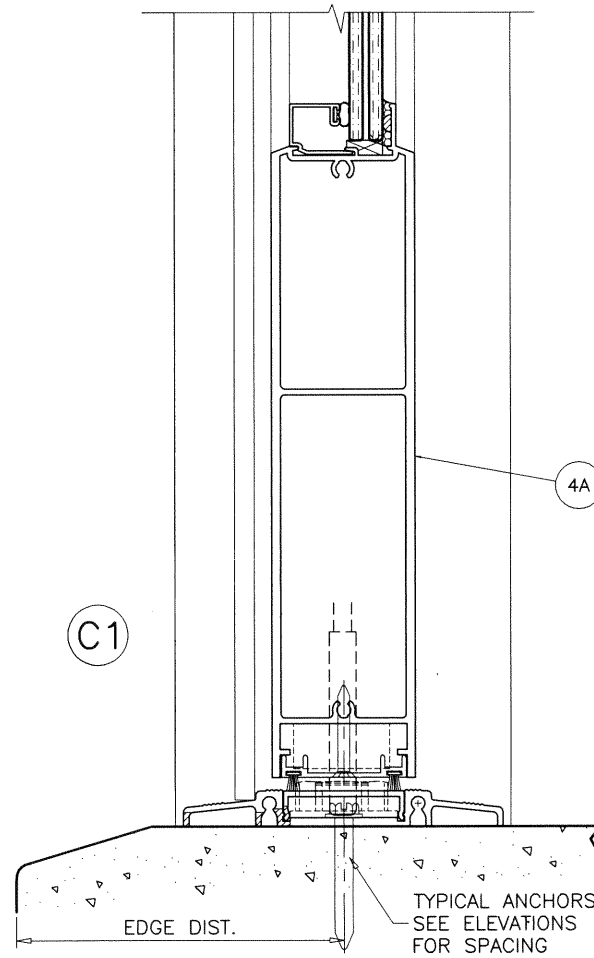
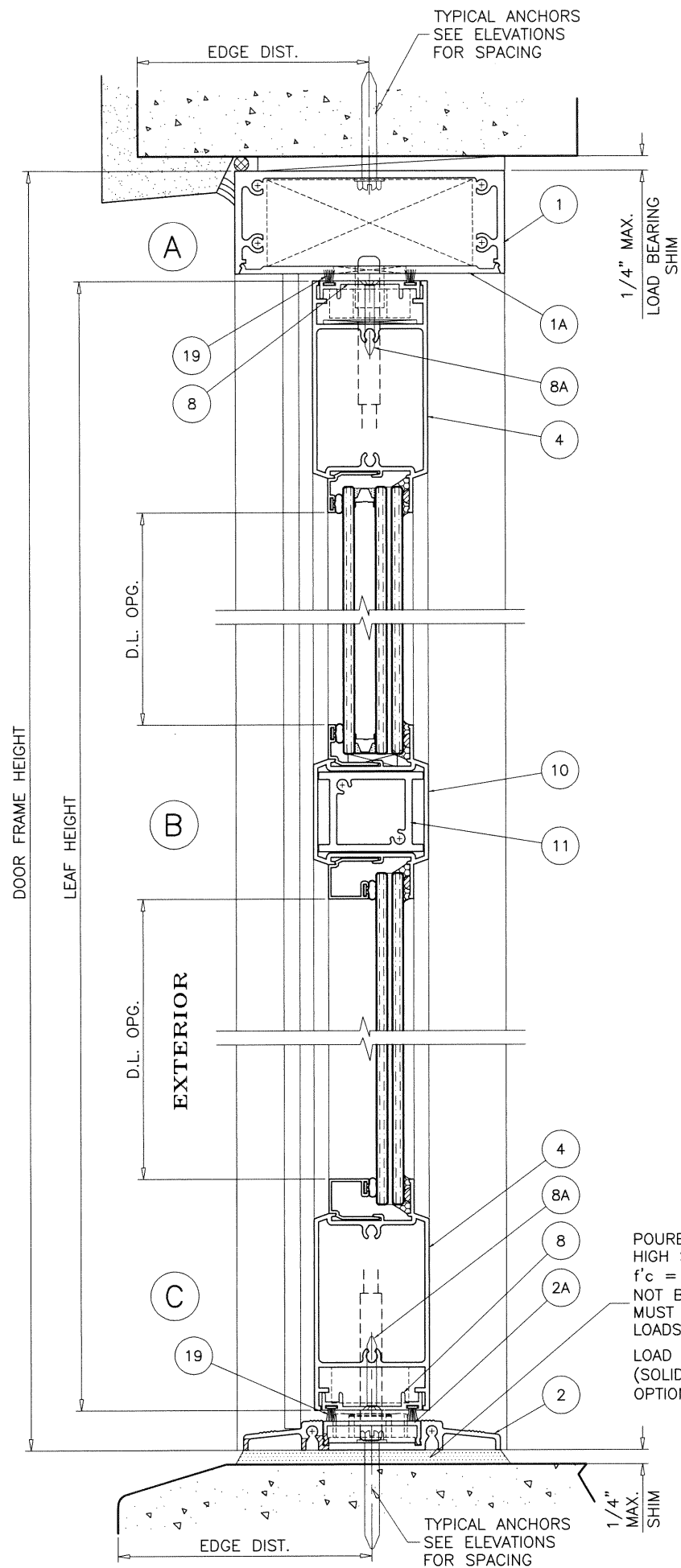
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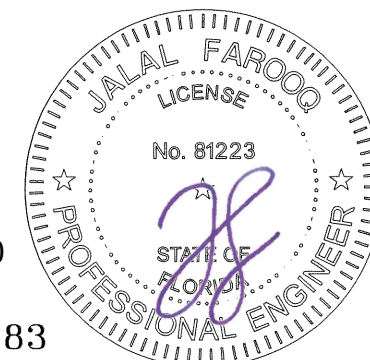
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DOOR DETAILS



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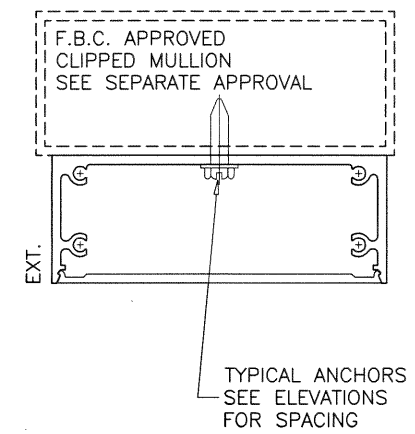
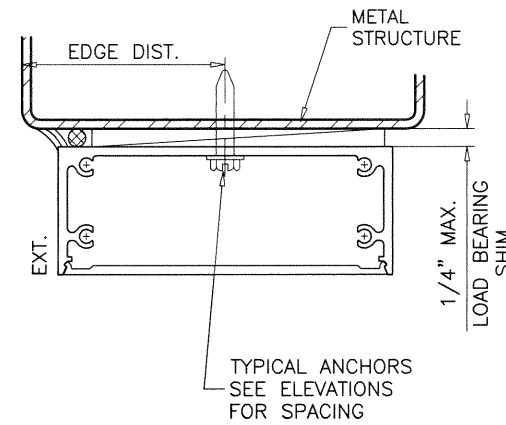
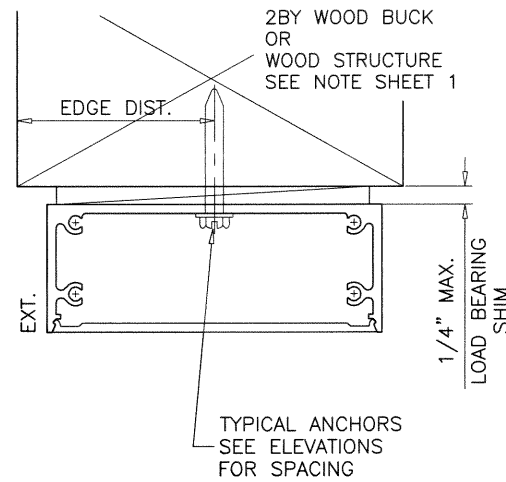
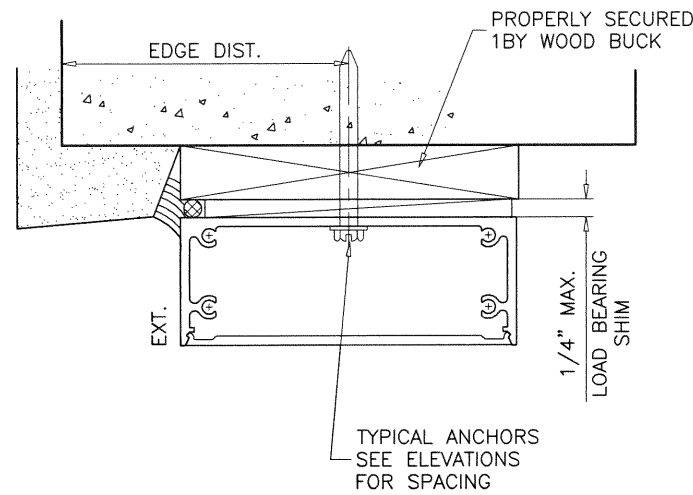
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WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRA-CON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES

1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

INTO F.B.C. APPROVED MULLIONS

AND

INTO METAL STRUCTURES (HEAD/SILL/JAMBS)

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

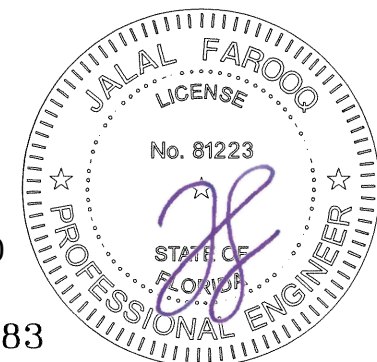
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.

CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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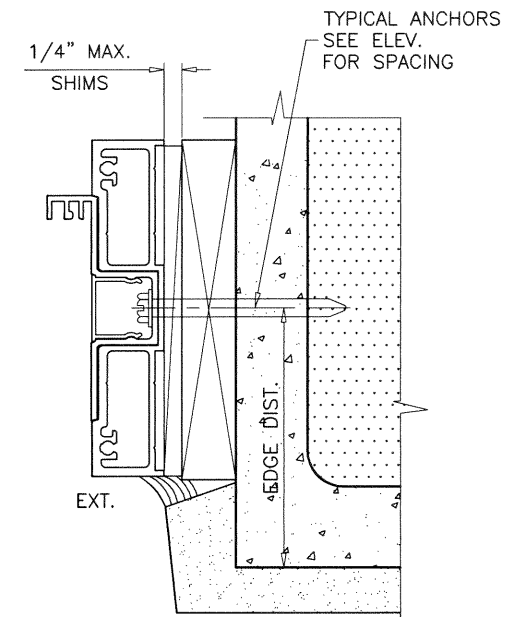
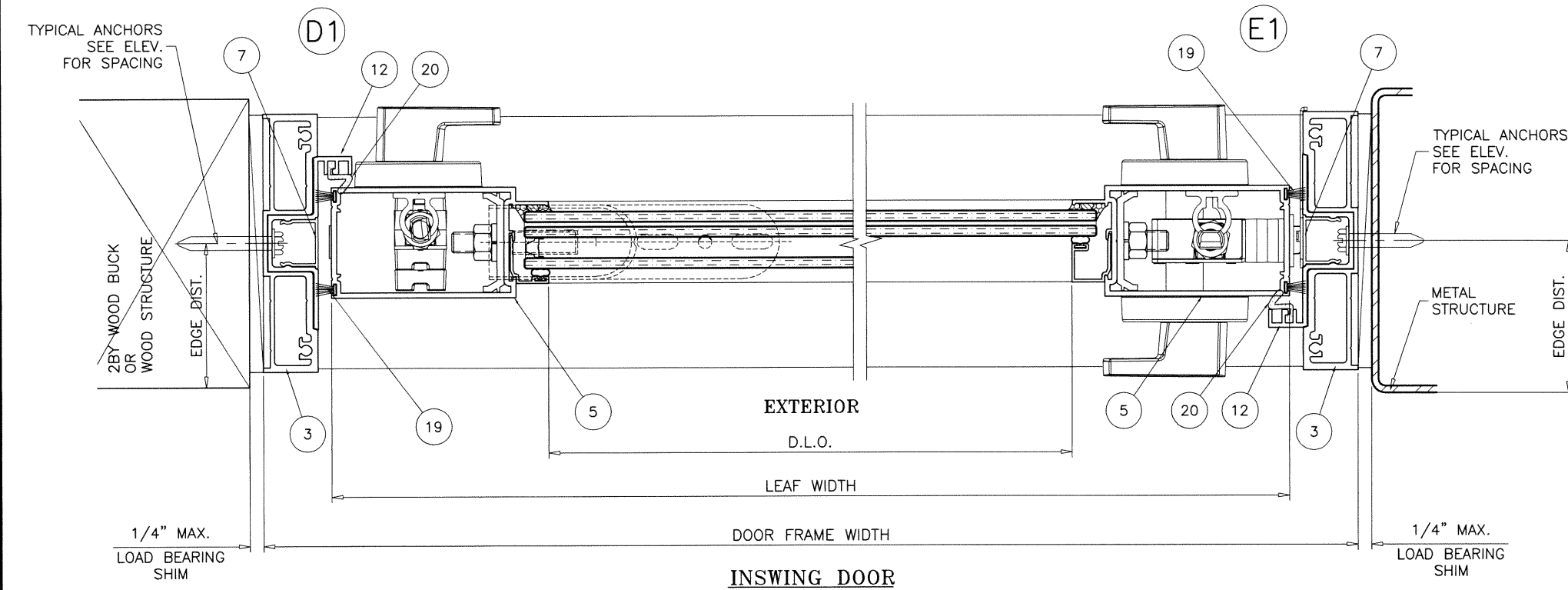
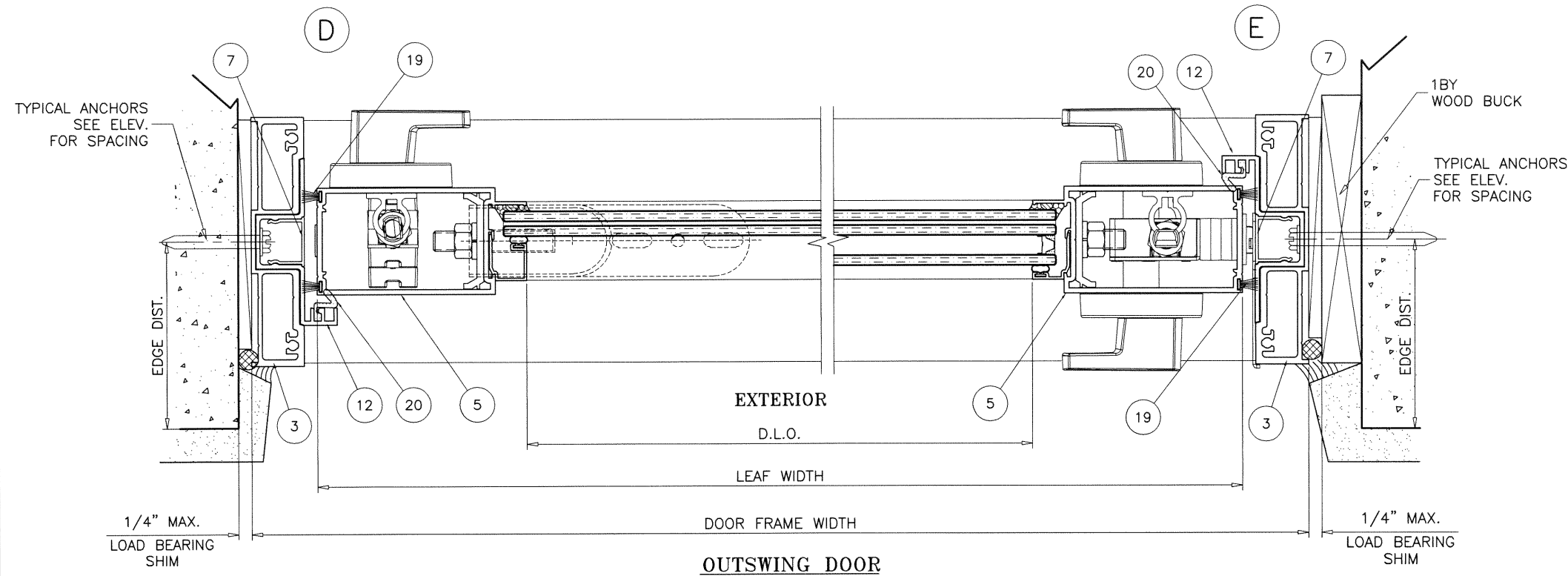
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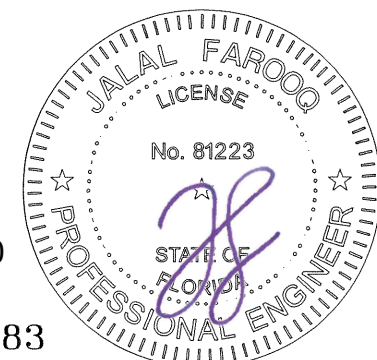
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DOOR DETAILS



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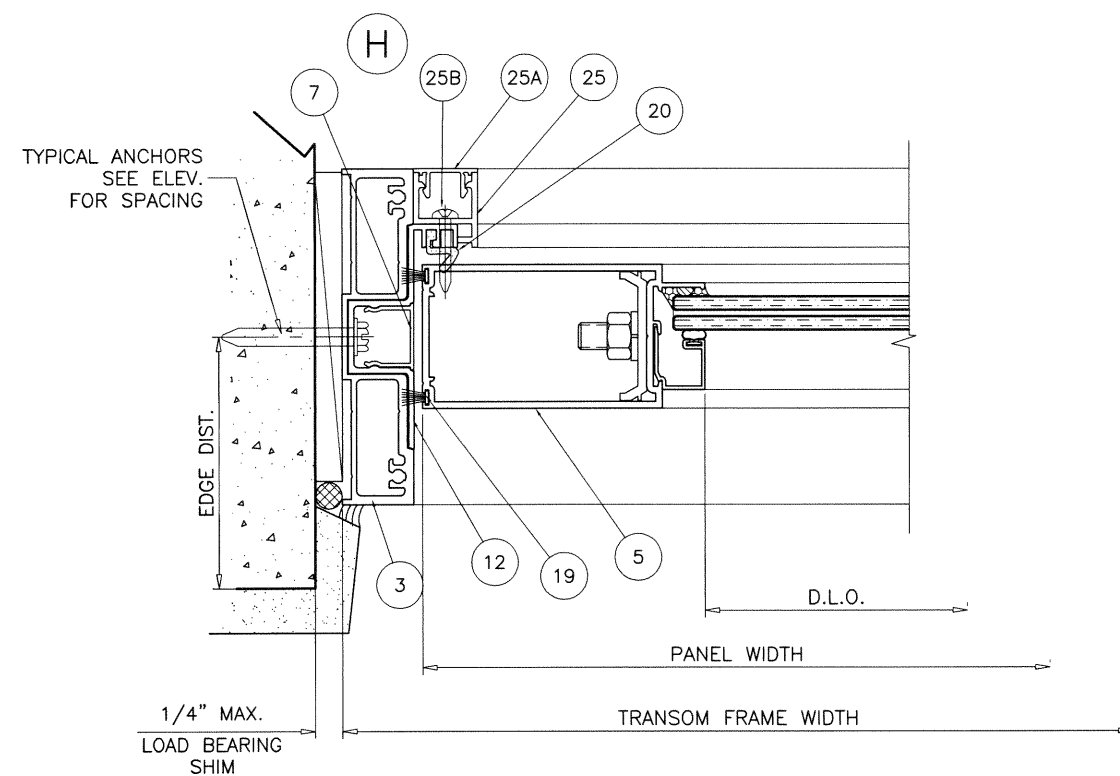
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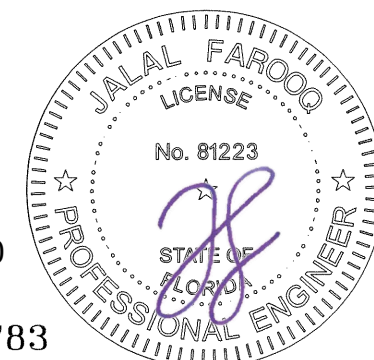
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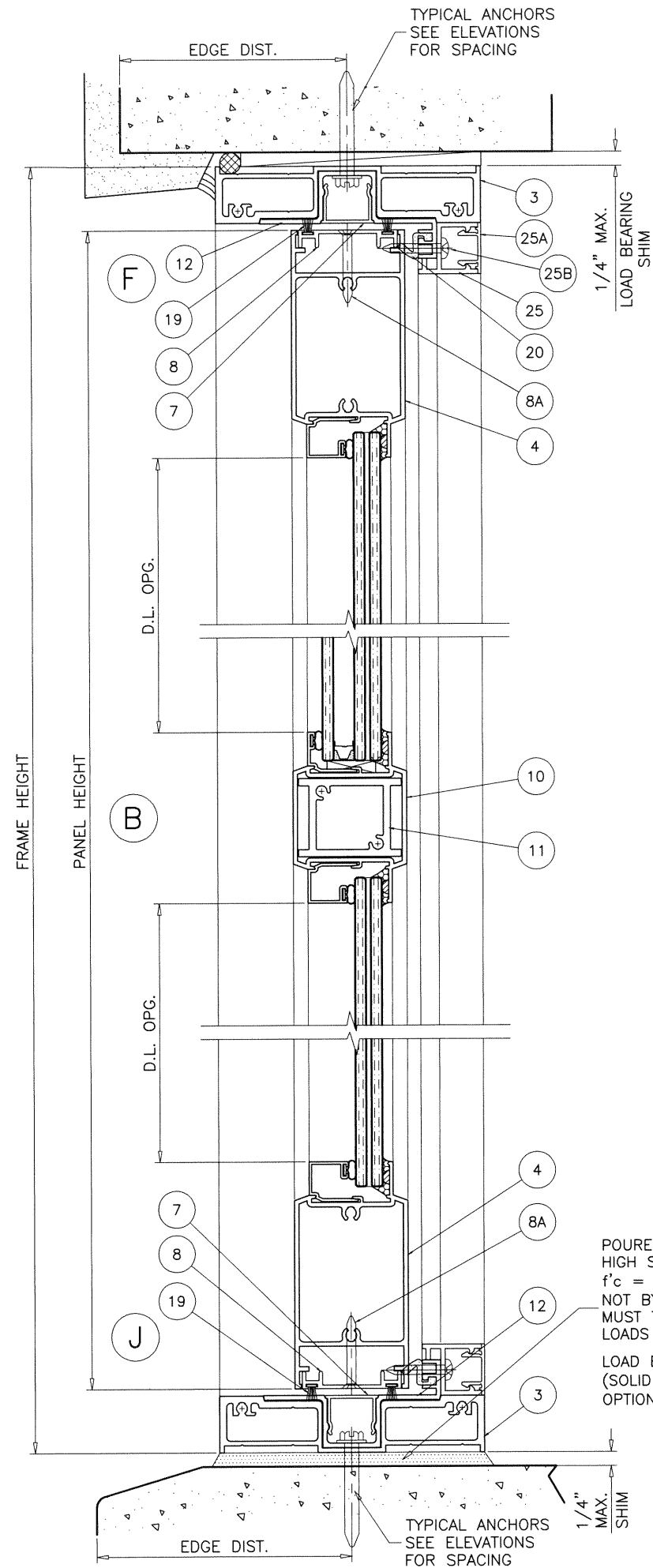
TRANSOM DETAILS



FL #30783

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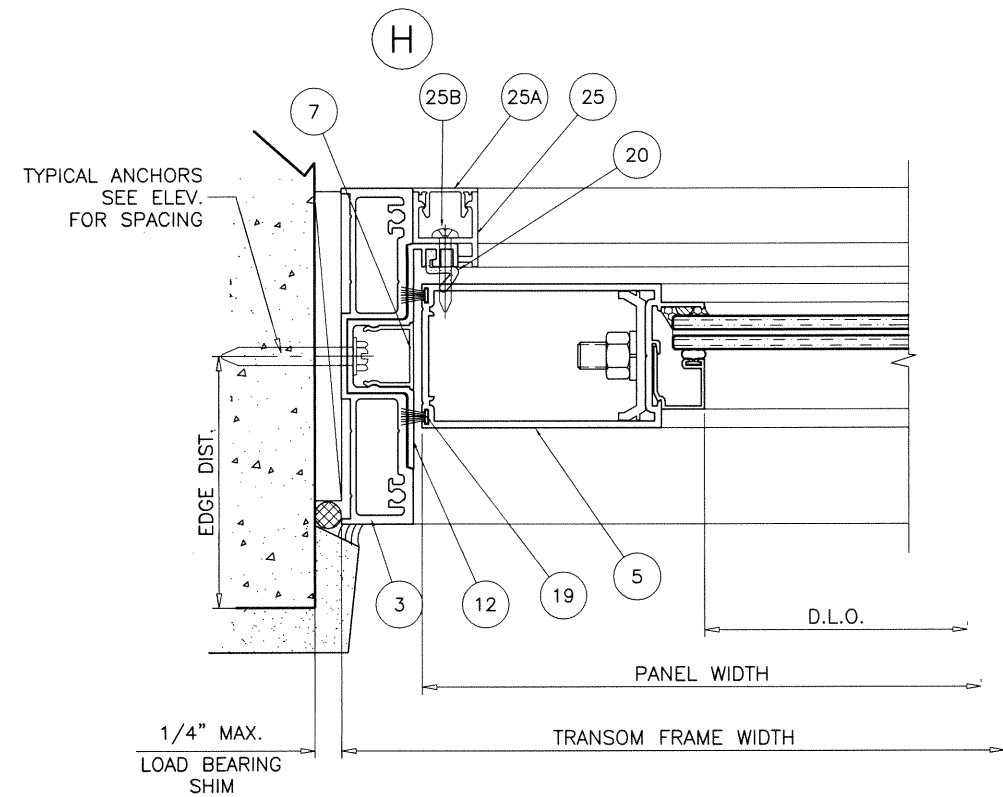
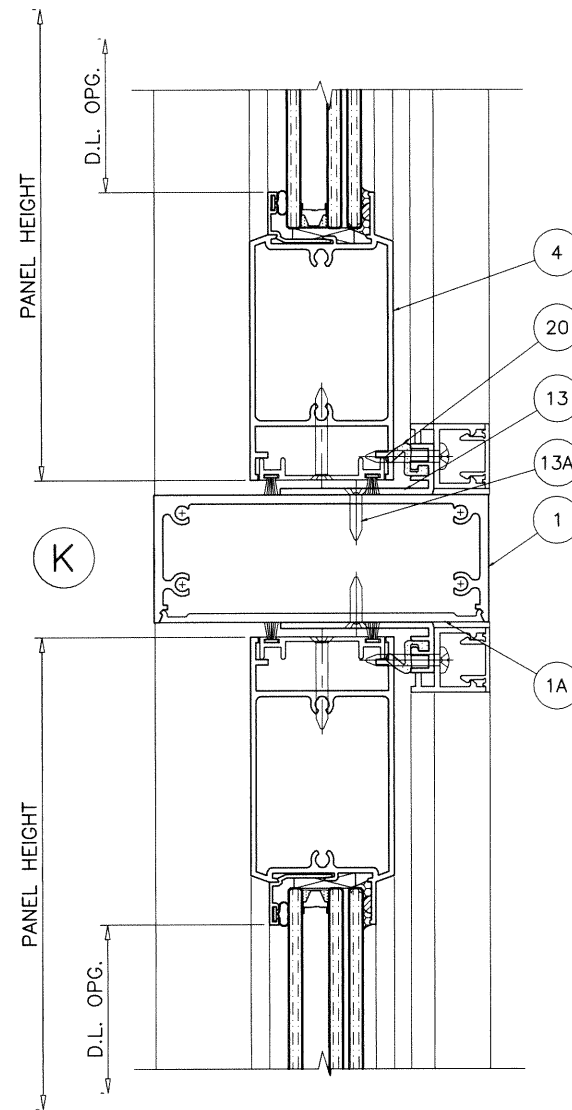
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19-109F	
sheet 8 of 14	
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chk. by:	



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)

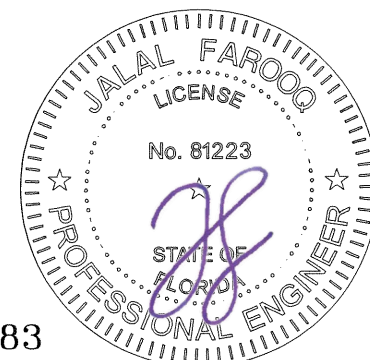
SIDELITES CAN BE INSTALLED IN ALL SUBSTRATES
SHOWN ON SHEETS 5 THRU 7.



SIDELITE DETAILS

Sealed: 9/30/20

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al-farooq
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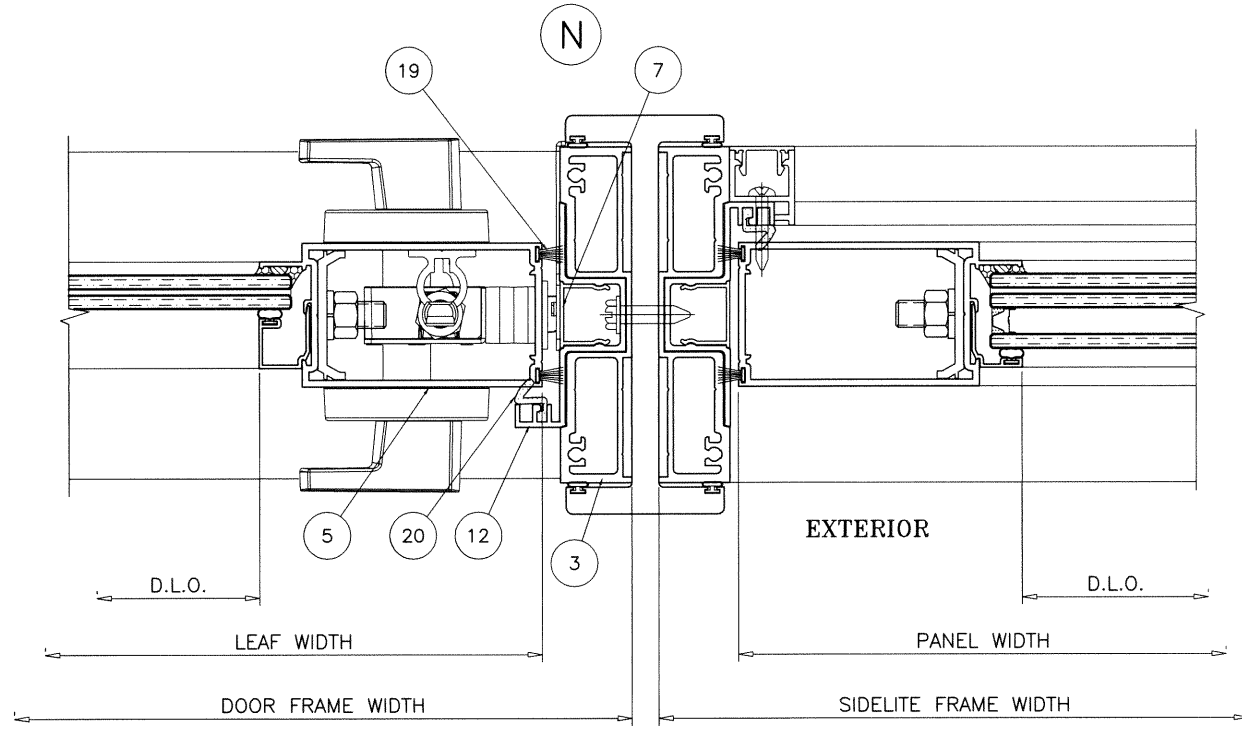
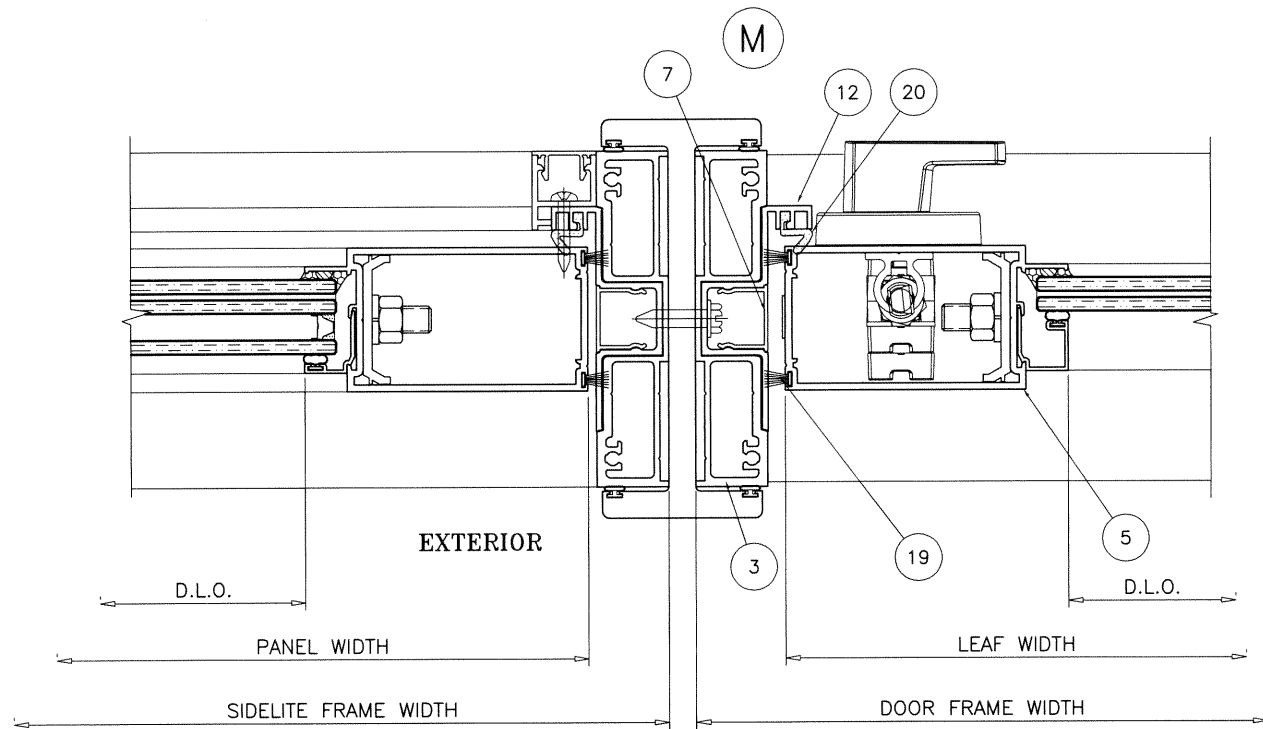
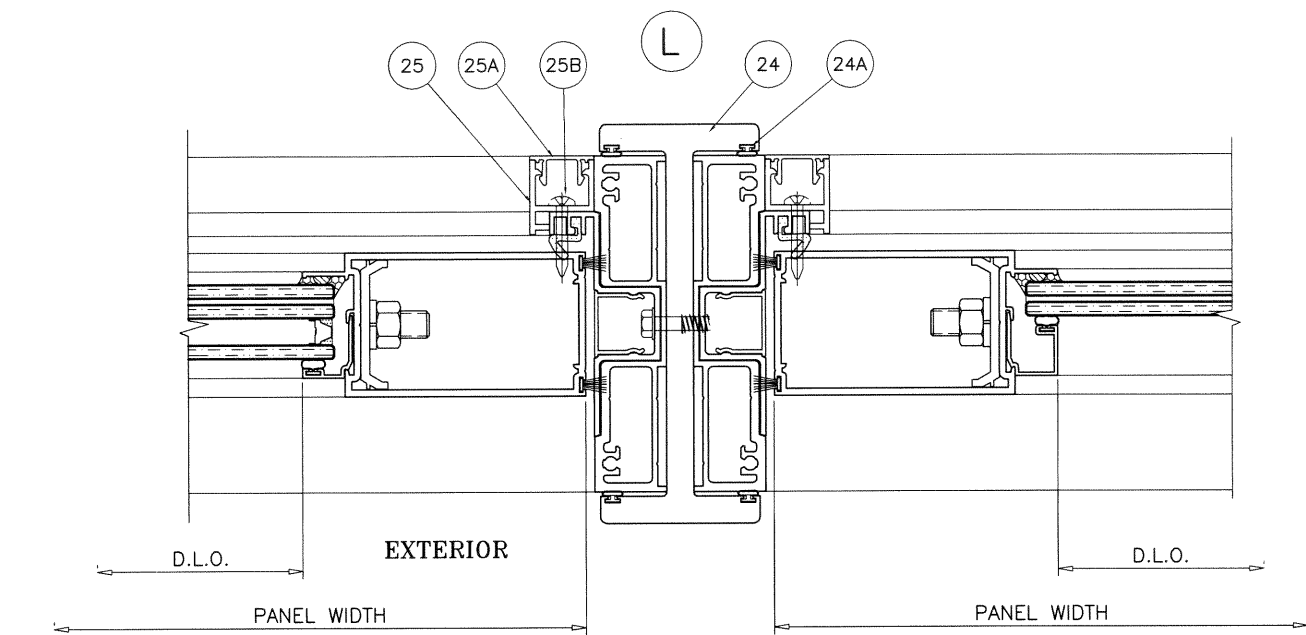
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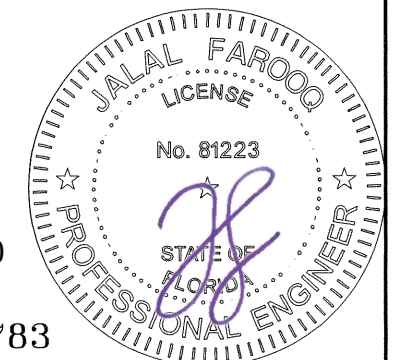
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SIDELITE/DOOR MULLION DETAILS

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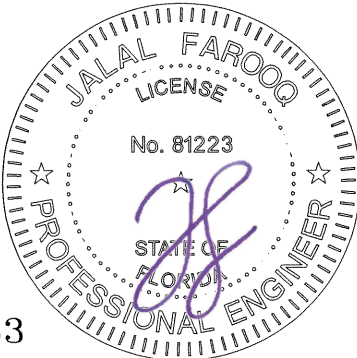
19-109F

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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E1501	1	DOOR HEADER	6063-T6	-
1A	E1502	1	DOOR HEADER COVER	6063-T6	-
2	E1508	1	THRESHOLD	6063-T6	-
2A	E1509	1	THRESHOLD COVER	6063-T6	-
3	E1510	2	SIDELITE/TRANSOM FRAME	6063-T6	-
4	E1505	2/ PANEL	LEAF TOP & BOTTOM RAIL	6063-T6	-
4A	E1504	1	HI-PROFILE LEAF BOTTOM RAIL	6063-T6	-
5	E908	2/ PANEL	LEAF STILE	6063-T6	-
6	E613	AS REQD.	LEAF ALIGNMENT CLIP	6063-T6	-
7	E905	AS REQD.	POCKET COVER	6063-T6	-
8	E908	1/ PANEL	TOP & BOTTOM RAIL SWEEP ADAPTER	6063-T6	-
8A	#10 X 1-1/2"	AS REQD.	SWEEP ADAPTER FASTENERS	ST. STEEL	AT 6" FROM EACH END
9	E913	AS REQD.	GLASS STOP (LAM. GLASS)	6063-T5	-
9A	E912	AS REQD.	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
10	E1506	AS REQD.	MID RAIL	6063-T6	-
11	E1507	AS REQD.	SHEAR BLOCK	6063-T6	-
11A	??	2/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	-
12	E1511	AS REQD.	FRAME ADAPTER	6063-T6	-
13	E1503	AS REQD.	TRANSOM ADAPTER	6063-T6	-
13A	#10 X3/4"	AS REQD.	ADAPTER FASTENERS	ST. STEEL	AT 6" FROM ENDS & 12" O.C.
14	E909	AS REQD.	LEAF ALIGNMENT CLIP	6063-T6	-
15	E613	AS REQD.	LEAF CLAMP	6063-T6	-
16	E223	AS REQD.	GLAZING GASKET (DUROMETER 70±5)	SANTOPRENE	ULTRAFAB
17	FLB-50	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
18	-	2/ LITE	SETTING BLOCKS, AT 1/4 POINTS	EPDM	DUROMETER 85±5 SHORE A
19	W223412G	AS REQD.	FIN SEAL PILE W'STRIPPING	POLYPROPYLENE	ULTRAFAB
20	QW521	AS REQD.	COMPRESSION W'STRIPPING	Q-LON	SCHLEGEL
21	#12 X 1-1/2"	AS REQD.	FRAME AND LEAF ASSEMBLY SCREWS	ST. STEEL	HWH SMS
22	-	-	-	-	-
23	-	2/LEAF	3/8" DIA. THREADED ROD	STEEL	-
24	E1512	AS REQD.	'H' MULLION	6063-T6	-
24A	-	AS REQD.	MULLION W'STRIPPING	VINYL	-
25	??	AS REQD.	SIDELITE ADAPTER	6063-T5	-
25A	??	AS REQD.	SIDELITE ADAPTER CAP	6063-T5	-
25B	#10 X3/4"	AS REQD.	ADAPTER FASTENERS	ST. STEEL	AT 6" FROM ENDS & 12" O.C.
-	-	-	-	-	-

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COMP-ANL\19-109F-ECO

DOOR HARDWARE

3 POINT LOCKS AT LOCK STILE

3 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
WITH LEVER TYPE HANDLE AT 42" FROM BOTTOM
KEY OPERATOR ON EXTERIOR AND THUMB TURN ON INTARIOR
(2) LOCKING POINTS ENGAGING AT INACTIVE LEAF AT STRIKE PLATE
1/2" DIA. THROW BOLT (1) AT TOP ENGAGING FRAME HEAD
AND (1) AT BOTTOM ENGAGING FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONCEALED
VERTICAL RODS
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(2) 10-24 X 1-7/8" FH MACHINE SCREWS

SURFACE MOUNT METALLIC STRIKE PLATE AT 47" FROM BOTTOM
FACING LOCKING POINTS
FASTENED TO INACTIVE LEAF WITH
(8) #8 X 3/4" FH SELF DRILLING SCREWS

FLUSH BOLT AT PIVOT STILE

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
WITH LEVER TYPE HANDLE AT 42" FROM BOTTOM
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME
HEAD AND FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONCEALED
VERTICAL RODS
FASTENED TO STILES WITH
(2) 8-32 X 1-1/8" FH MACHINE SCREWS

KEEPERS FOR THROW BOLT AT SILL:

SURFACE MOUNT ST. STEEL KEEPERS
EACH FASTENED TO FRAME SILL WITH
(2) #8 X 2" FH SMS

PIVOTS AT PIVOT STILE

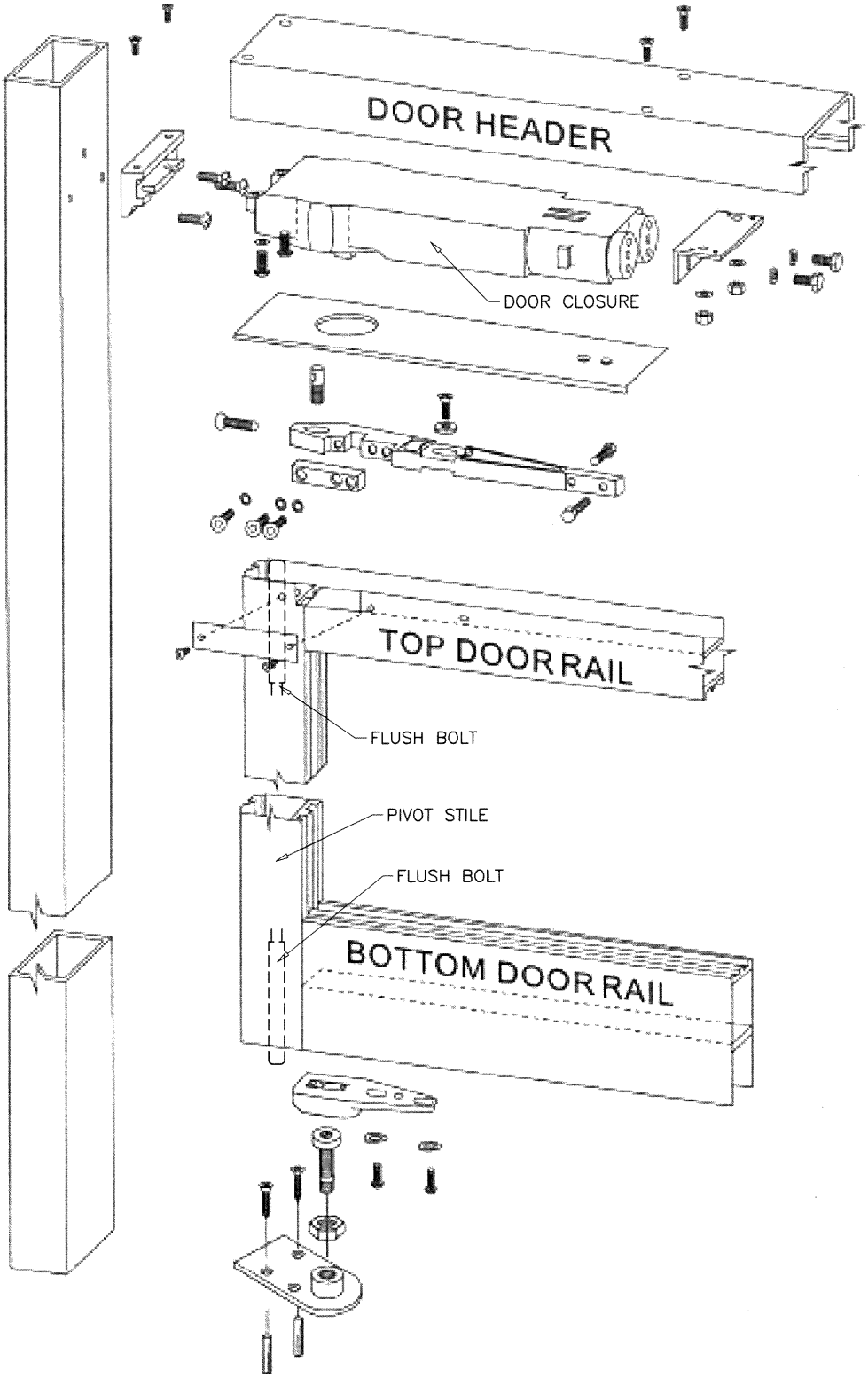
R500 CLOSER
ATTACHED TO HEADER WITH (4) 1/4-20 X 1-1/4" PFH MACHINE SCREWS.

RTS 8852 BOTTOM PIVOT ATTACHED TO FRAME SILL WITH (2) #12 X 5/8" SELF
DRILLING SCREWS

ELECTRICAL FUNCTION IS NOT PART OF THIS APPROVAL.

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
'SCHNEE-MOREHEAD 5504' SEAM SEALER.



CLOSURE WITH BOTTOM PIVOT

Sealed: 9/30/20

FL #30783



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

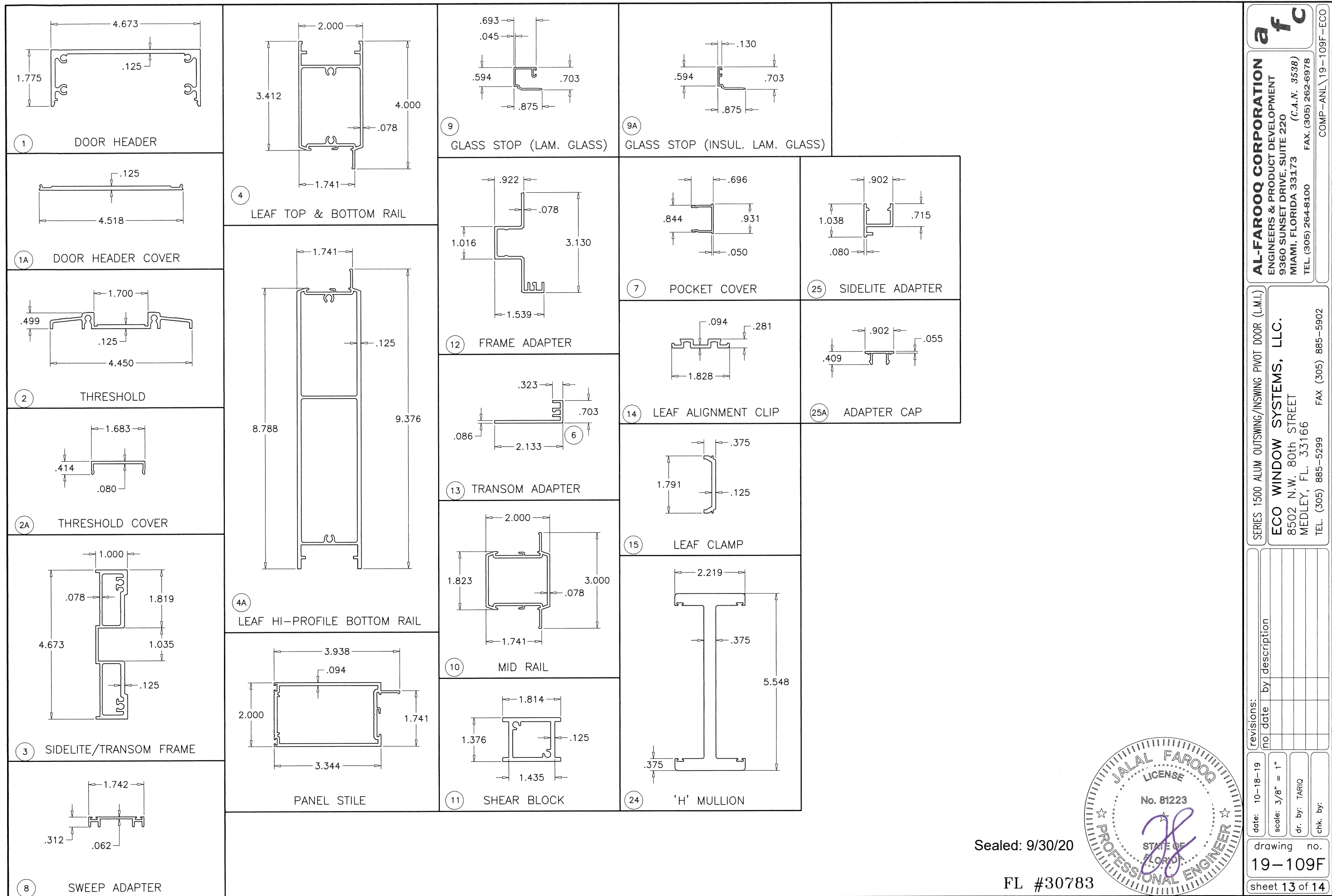
SERIES 1500 ALUM OUTSWING/INSWING PIVOT DOOR (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:	
no	date

date:	10-18-19
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

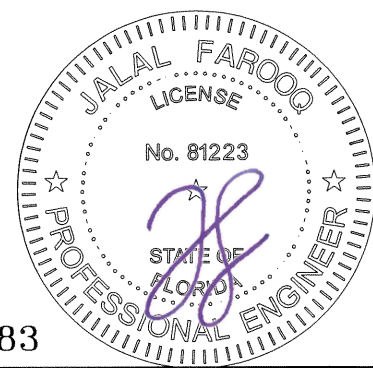
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19-109F

sheet 12 of 14



Sealed: 9/30/20

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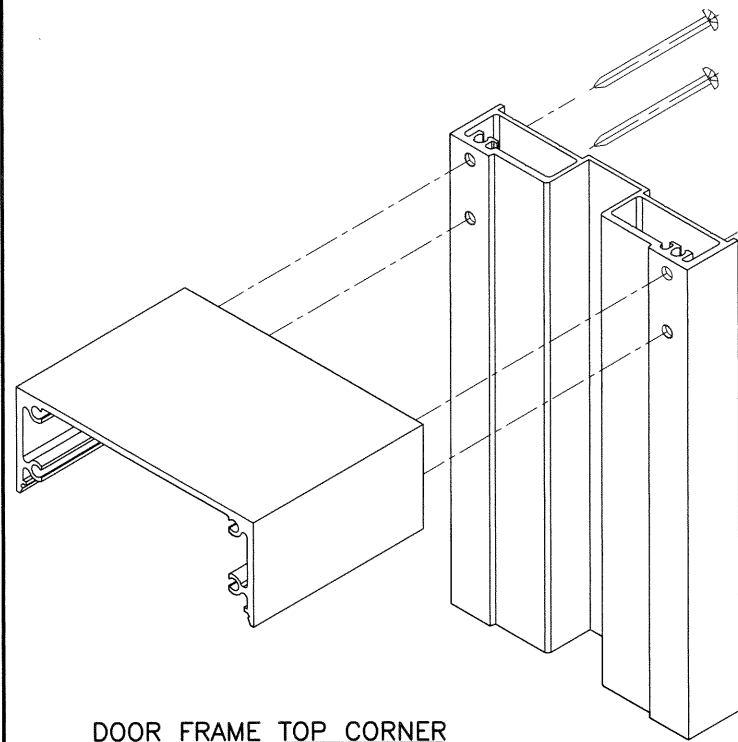
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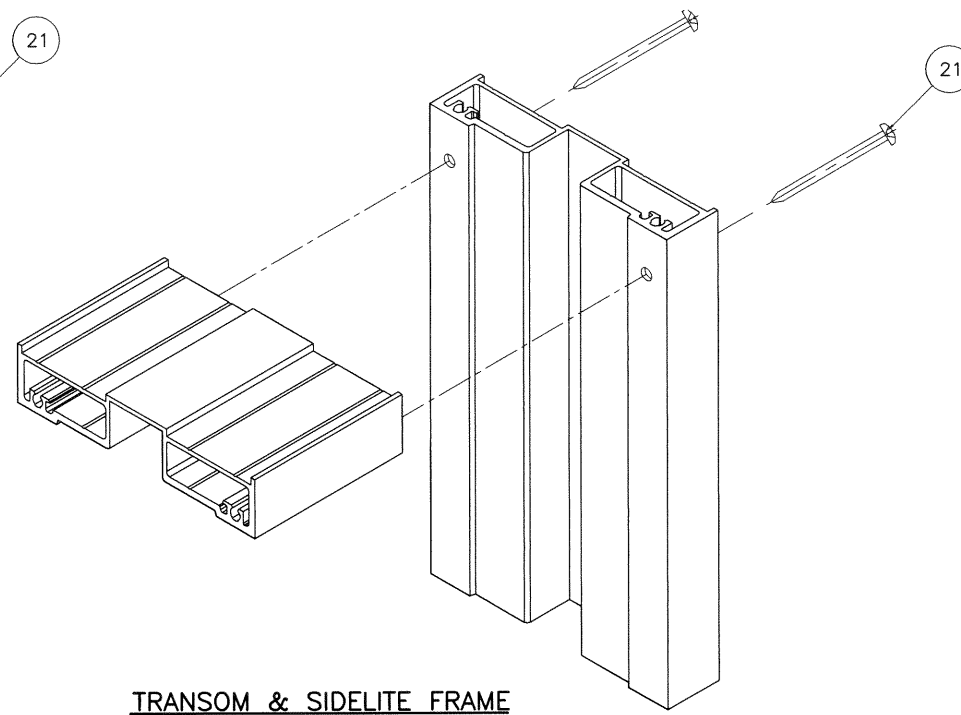
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chk. by:

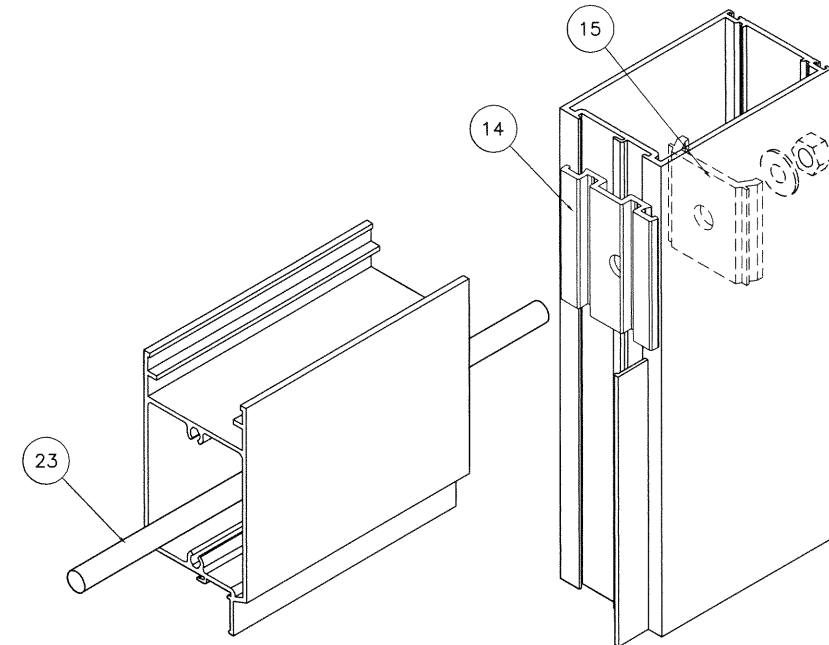
drawing no.
19-109F
sheet 13 of 14



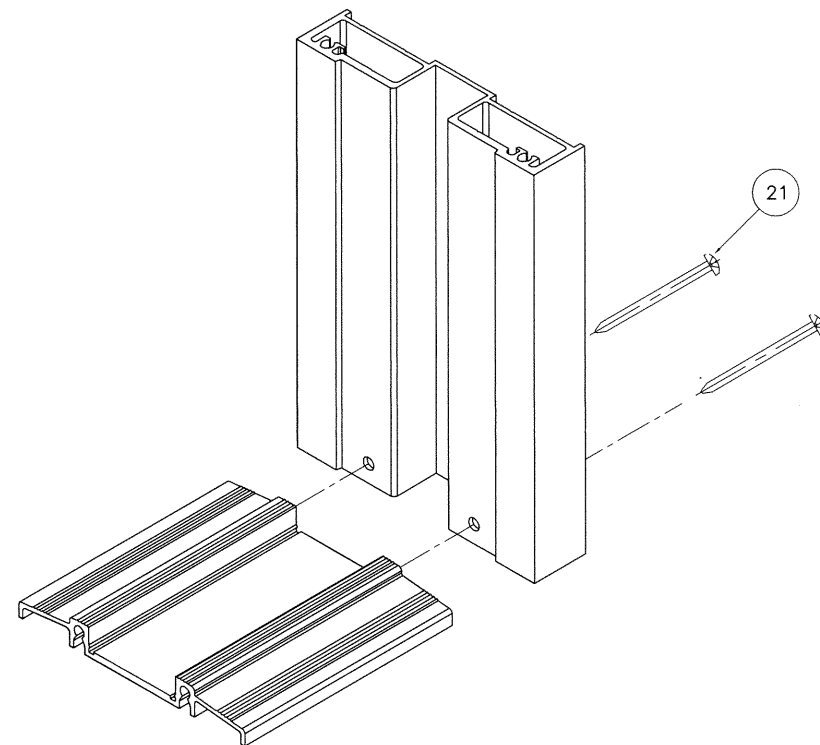
DOOR FRAME TOP CORNER



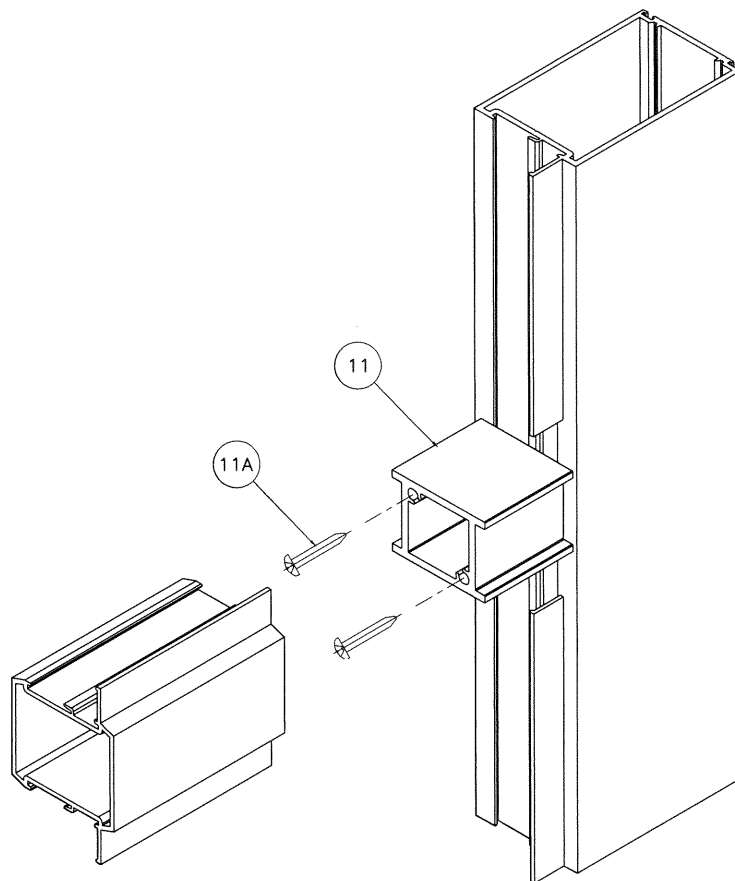
TRANSOM & SIDELITE FRAME
TOP/BOTTOM CORNER



LEAF CORNER



DOOR FRAME BOTTOM CORNER



MID RAIL CORNER

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sheet 14 of 14