

(X)

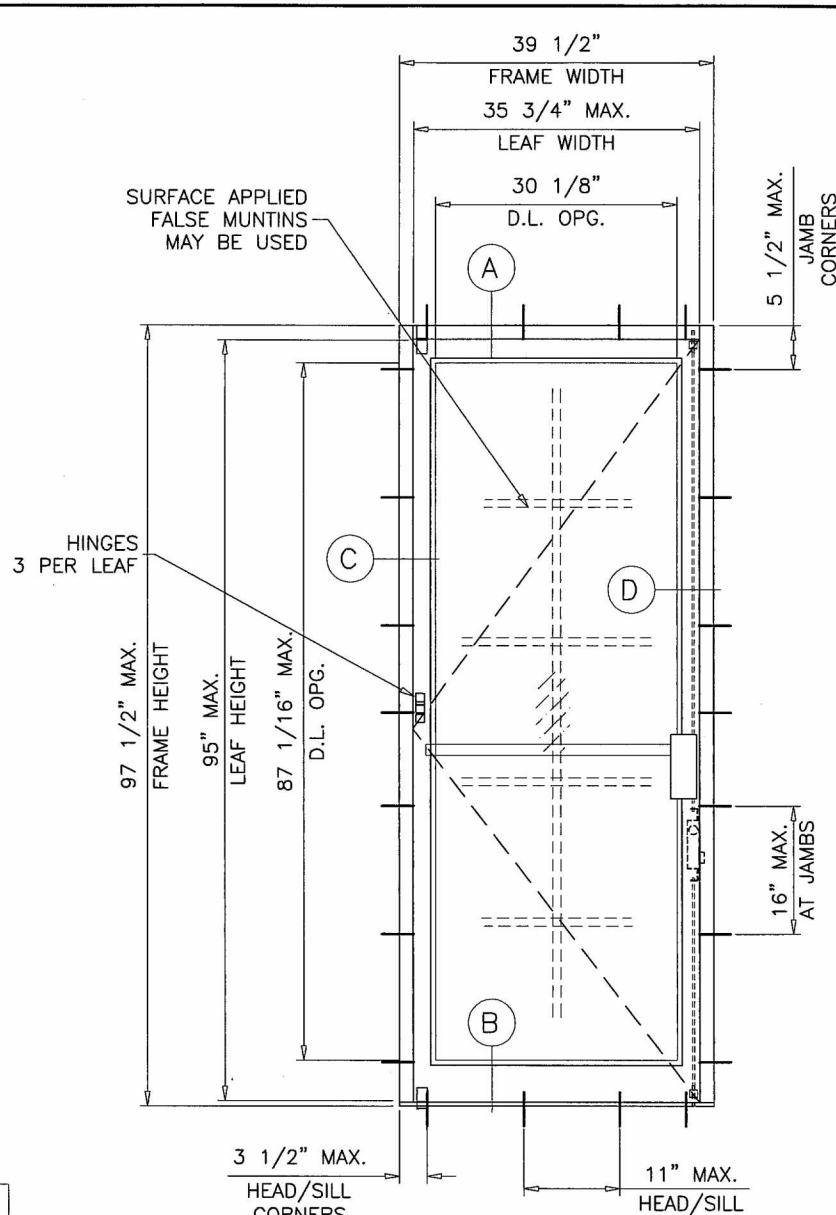
(XX)

DESIGN LOAD CAPACITY - PSF
SINGLE OR DOUBLE ENTRANCE DOORS W/O TRANSOM

NOMINAL DIMS.					LOADS - PSF	
FRAME WIDTH (X)	FRAME WIDTH (XX)	FRAME HEIGHT INCHES	LEAF WIDTH INCHES	LEAF HEIGHT INCHES	EXT.(+)	INT.(-)
33-1/2"	63-1/2"	85-1/2"	29-3/4"	83"	82.3	82.3
39-1/2"	75-1/2"	95"	35-3/4"	83"	68.6	68.6
33-1/2"	63-1/2"	97-1/2"	29-3/4"	95"	72.0	72.0
39-1/2"	75-1/2"	97-1/2"	35-3/4"	95"	60.0	60.0

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

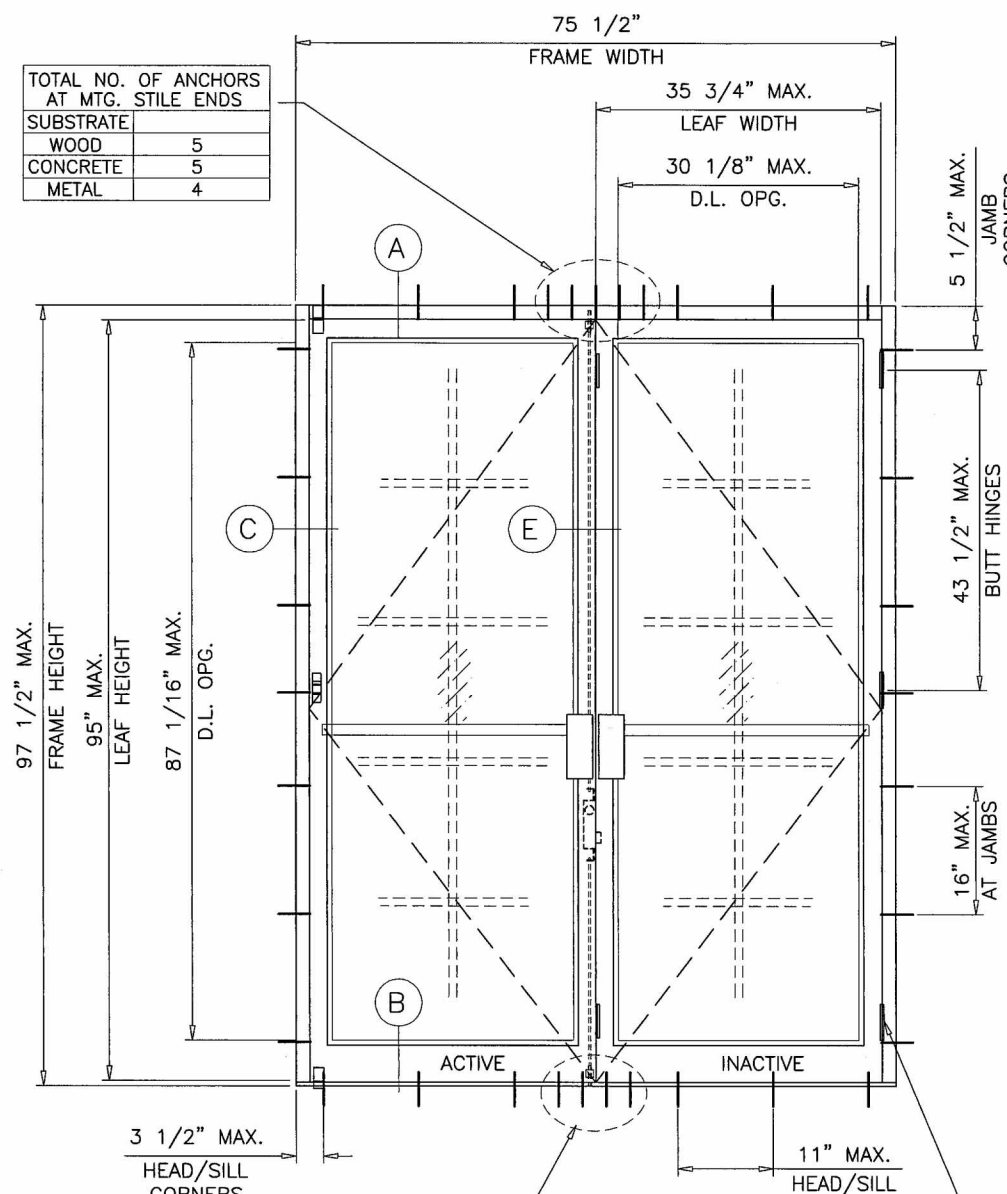
DOORS NOT RATED FOR IMPACT.
INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.



GLASS D.L.O. DIMS.

D.L.O. HEIGHT = FRAME HEIGHT - 10.438"
D.L.O. WIDTH (X DOORS) = FRAME WIDTH - 9.375"
D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH - 15.250")/2

TOTAL NO. OF ANCHORS AT MTG. STILE ENDS	
SUBSTRATE	
WOOD	5
CONCRETE	5
METAL	4



TYPICAL ELEVATIONS

DNS-20 ALUMINUM OUT-SWING ENTRANCE DOOR

SEE CHARTS ABOVE FOR DESIGN LOAD CAPACITY OF SINGLE (X) AND DOUBLE (XX) DOORS WITHOUT TRANSOM.

FOR HORIZONTAL MULLION (TRANSOM BAR) SEE HORIZONTAL MULLION LOAD CAPACITY CHARTS ON SHEET 2. LOWER VALUE RESULTING FROM DOOR CAPACITY CHART OR HORIZONTAL MULLION CAPACITY CHARTS WILL APPLY FOR DOORS WITH TRANSOM (O/X OR O/XX).

DOORS CAN ALSO BE USED WITH 'DSF-450' STOREFRONT SYSTEM. FOR DOORS WITH STOREFRONT SYSTEM SEE SEPARATE APPROVAL FOR DOOR MULLION CAPACITY AND ANCHORING REQUIREMENTS. THE LOWEST VALUE RESULTING FROM DOOR CAPACITY CHARTS OR STOREFRONT APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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

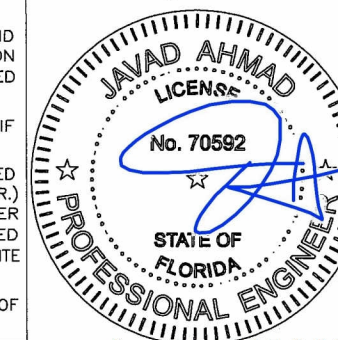
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1710.8.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1710.8.2.

MONOLITHIC GLASS
NON-IMPACT

FL #18368



- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- 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.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- 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.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W15-52USA

DNS-20 ALUM OUT-SWING ENTRANCE DOOR (N.I.)
US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077 FAX. (305) 884-3111

no	date	description

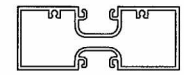
date: 08-21-15
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:

drawing no.
W15-52

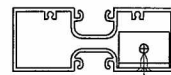
sheet 1 of 8

DESIGN LOAD CAPACITY - PSF SINGLE DOOR HORIZONTAL MULLION (TRANSOM BAR) WITHOUT CLIP			
NOMINAL DIMS.			LOADS - PSF
FRAME WIDTH INCHES	DOOR HEIGHT INCHES	TRANSOM HEIGHT INCHES	EXT. (+) INT. (-)
33-1/2	97-1/2	22-1/2	60.0
		26-1/2	51.4
39-1/2	97-1/2	22-1/2	60.0

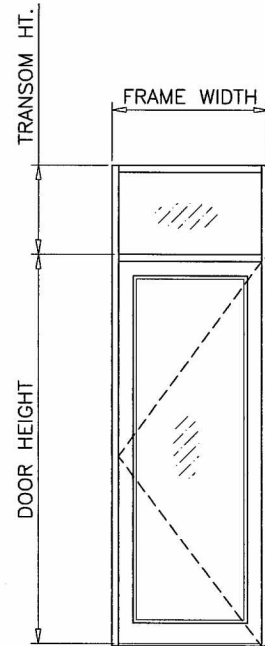
DESIGN LOAD CAPACITY - PSF DOUBLE DOOR HORIZONTAL MULLION (TRANSOM BAR) WITH ANGLE REINFORCED CLIP			
NOMINAL DIMS.			LOADS - PSF
FRAME WIDTH INCHES	DOOR HEIGHT INCHES	TRANSOM HEIGHT INCHES	EXT. (+) INT. (-)
63-1/2	97-1/2	22-1/2	60.0
		26-1/2	51.4
75-1/2	97-1/2	22-1/2	60.0



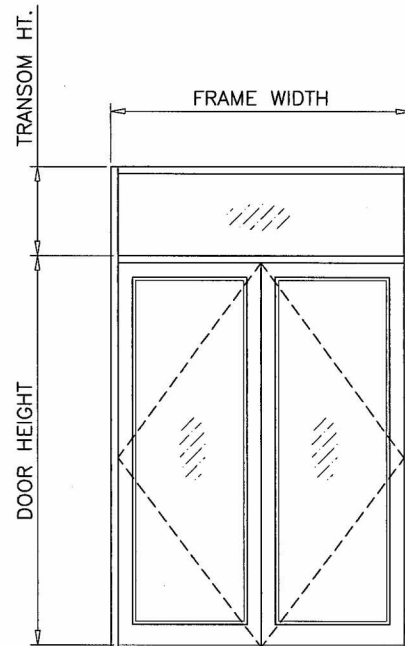
WITHOUT CLIP



WITH CLIP

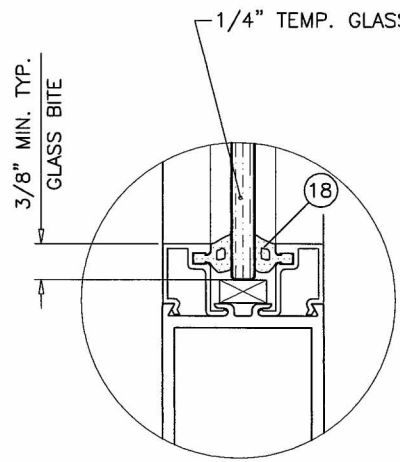


(O/X)

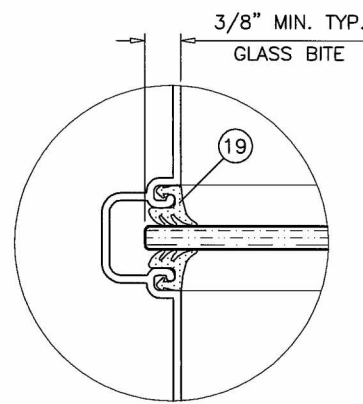


(O/XX)

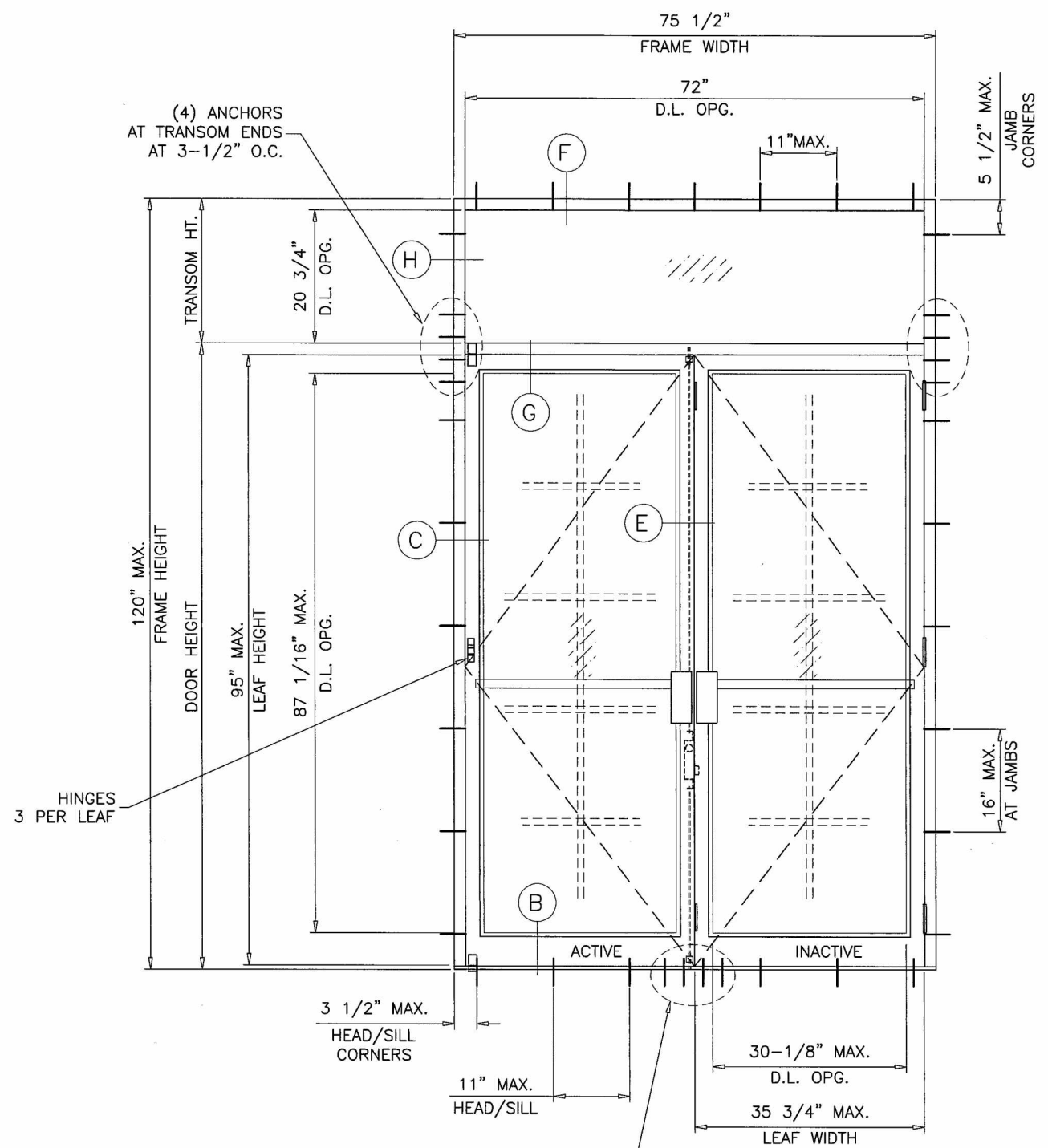
NOTE:
FOR DOORS CAPACITY SEE SHEET 1.
FOR HORIZONTAL MULLION CAPACITY SEE CHART ABOVE.
LOWER VALUES FROM DOORS OR HORIZONTAL MULLION CHART
WILL APPLY TO ENTIRE SYSTEM.



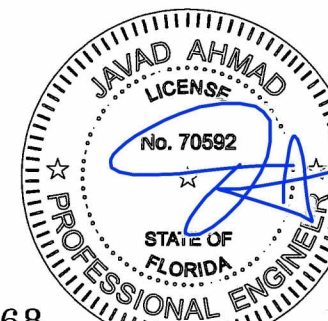
GLAZING DETAIL
DOOR LEAF



GLAZING DETAIL
FIXED LITE



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



FL #18368

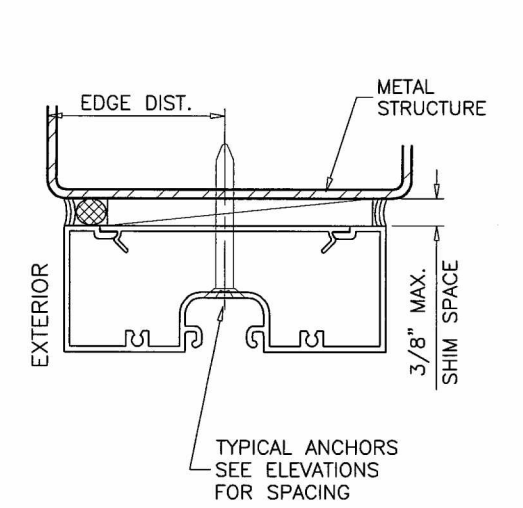
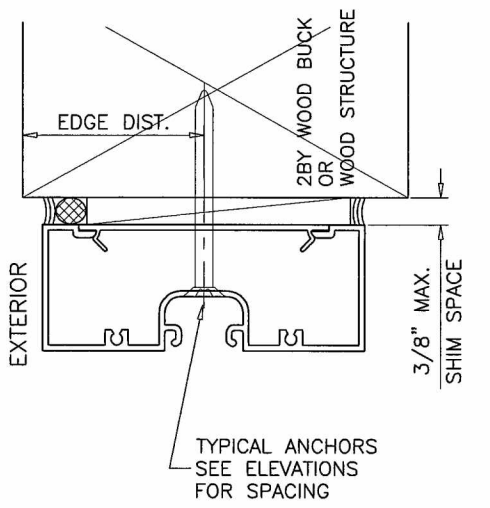
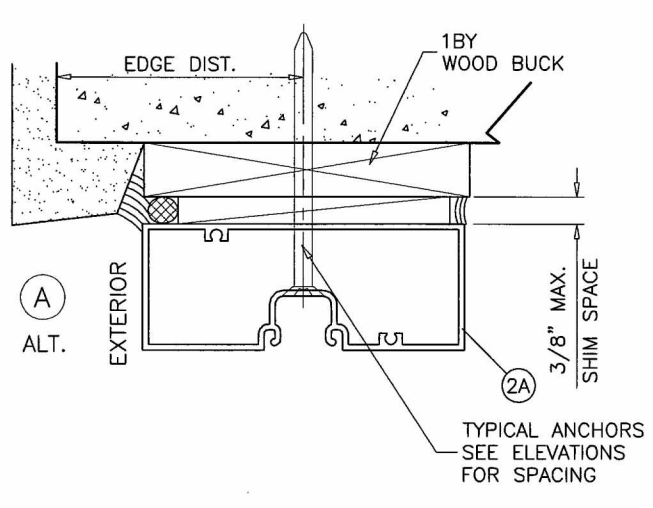
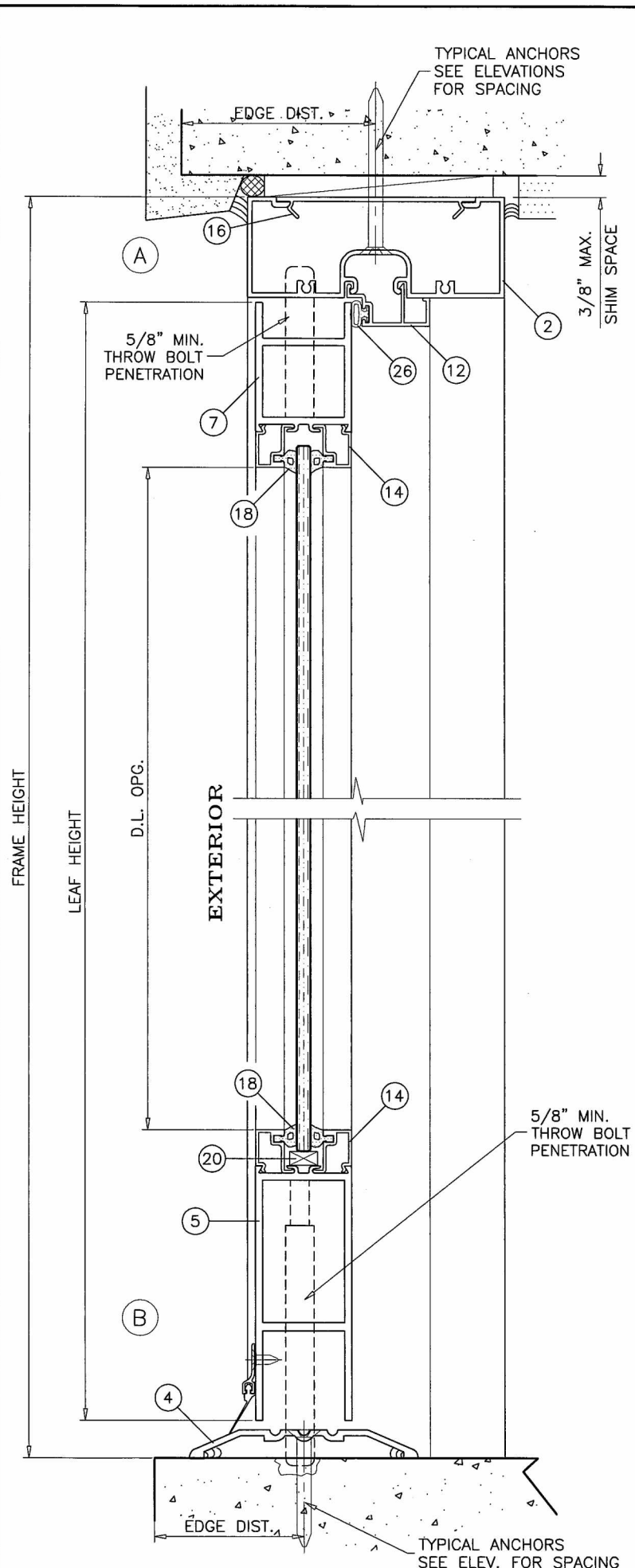
Aug 26 2015 6:08 PM

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W15-52USA

DNS-20 ALUM OUT-SWING ENTRANCE DOOR (N.I.)
US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077 FAX. (305) 884-3111

no	date	description

date: 08-21-15
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:
drawing no. W15-52
sheet 2 of 8



WOOD BUCKS AND METAL STRUCTURE NOT BY US ALUMINUM MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

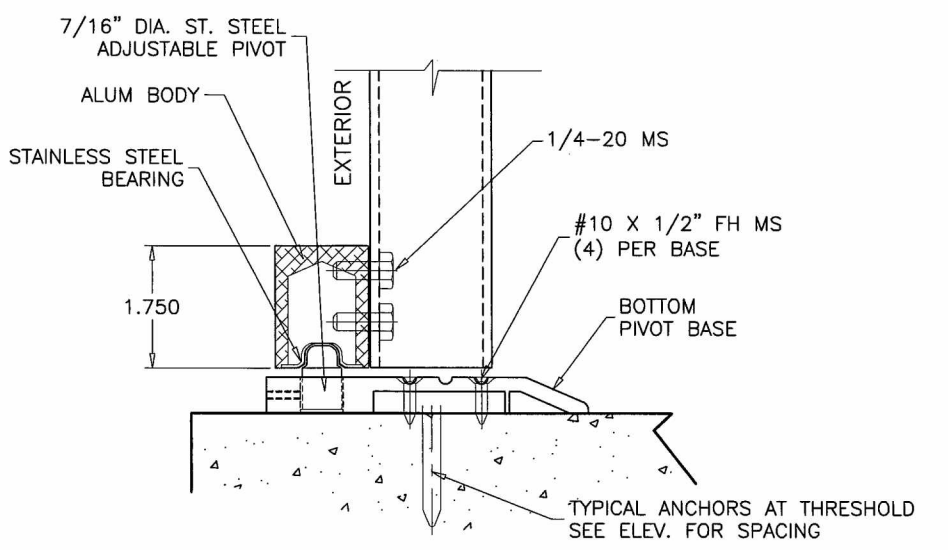
TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD)
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

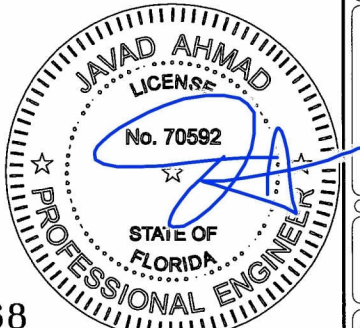
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS (MIN. THK. = 1/8")
 INTO METAL STRUCTURES
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD 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.



OFFSET PIVOT HINGE AT THRESHOLD



FL #18368

Aug 26 2015 6:08 PM

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL W15-52USA

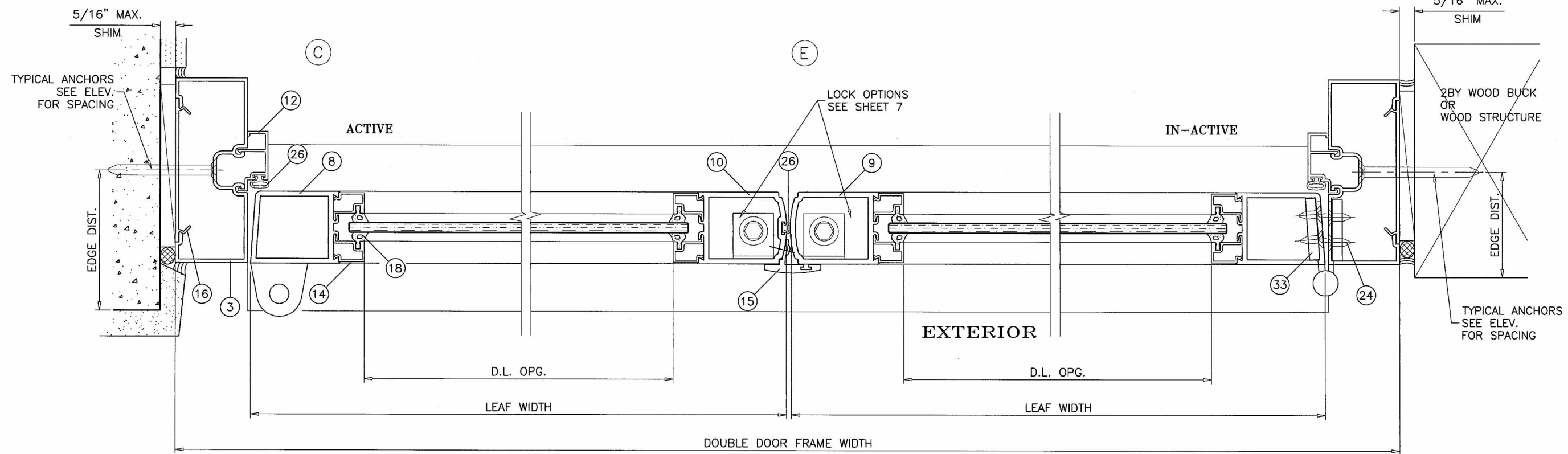
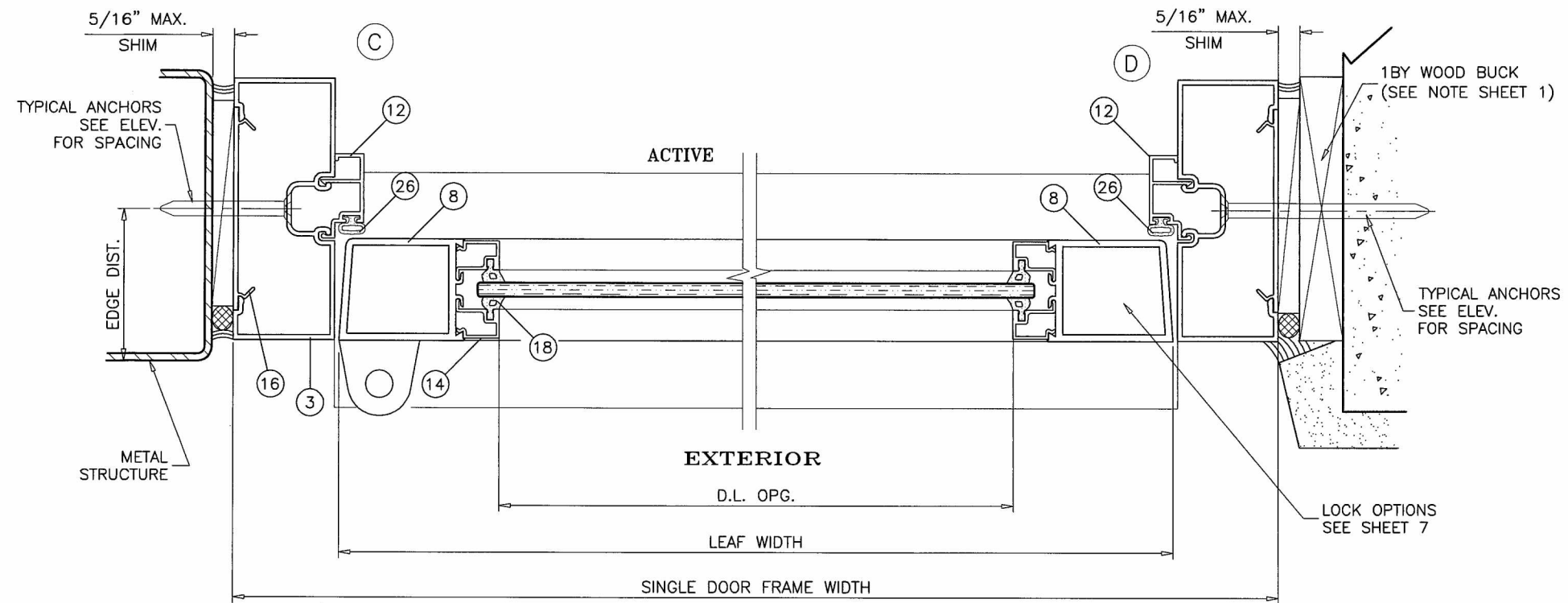
DNS-20 ALUM OUT-SWING ENTRANCE DOOR (N.I.)
 US Aluminum
 Division Of C.R. Laurence Co., Inc.
 7500 N.W. 69TH AVE.
 MIAMI, FL 33166
 TEL. (305) 888-0077 FAX. (305) 884-3111

revisions:	no	date	by	description

date: 08-21-15
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W15-52

sheet 3 of 8



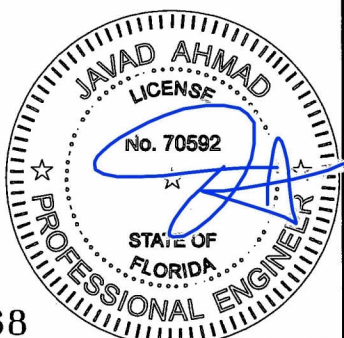
afc
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL/W15-52USA

DNS-20 ALUM OUT-SWING ENTRANCE DOOR (N.I.)
 US Aluminum
 Division Of C.R. Laurence Co., Inc.
 7500 N.W. 69TH AVE.
 MIAMI, FL 33166
 TEL. (305) 888-0077 FAX. (305) 884-3111

no	date	by	description

date: 08-21-15
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

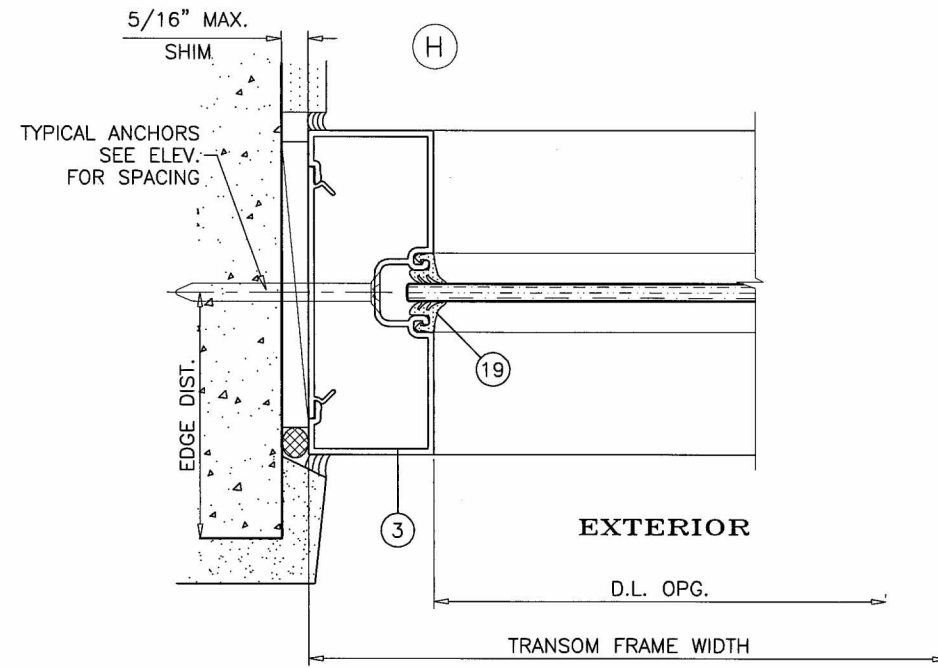
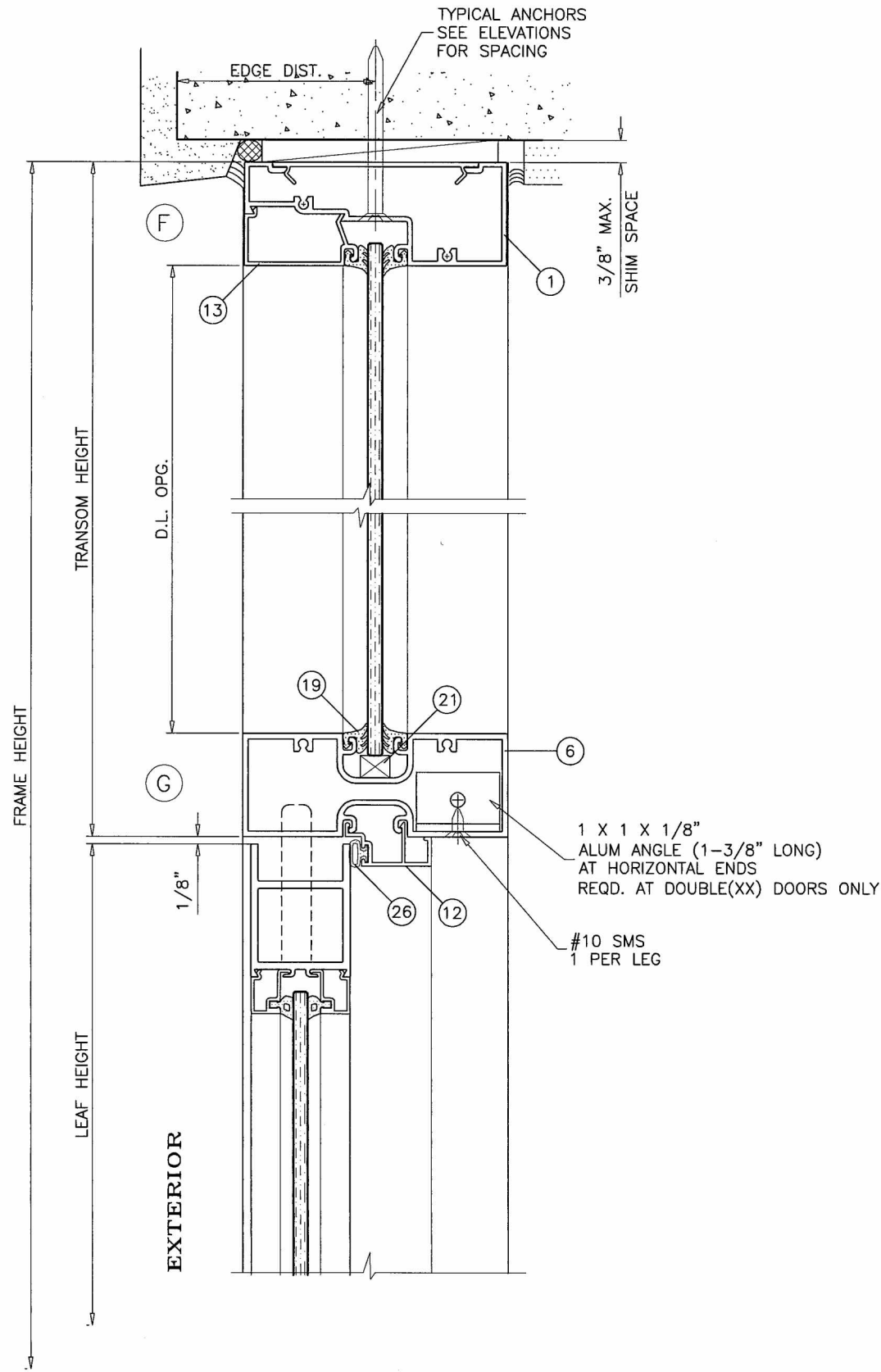
drawing no.
W15-52
 sheet 4 of 8



DOOR DETAILS

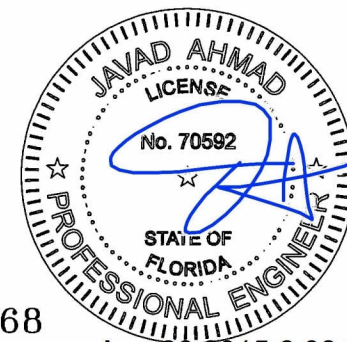
FL #18368

Aug 26 2015 6:08 PM



TRANSOM DETAILS

FL #18368



Aug 26 2015 6:08 PM

afc

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL W15-52USA

DNS-20 ALUM OUT-SWING ENTRANCE DOOR (N.I.)

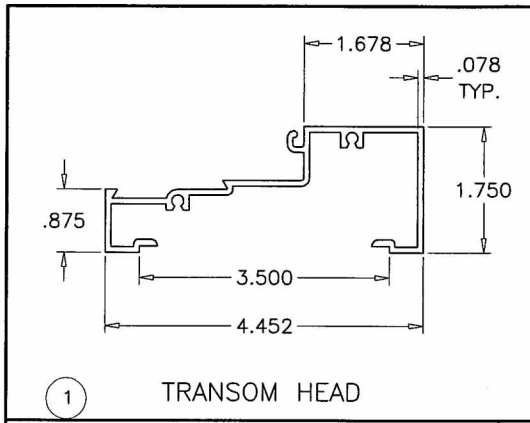
US Aluminum
 Division Of C.R. Laurence Co., Inc.
 7500 N.W. 69TH AVE.
 MIAMI, FL 33166
 TEL. (305) 888-0077 FAX. (305) 884-3111

no	date	by	description

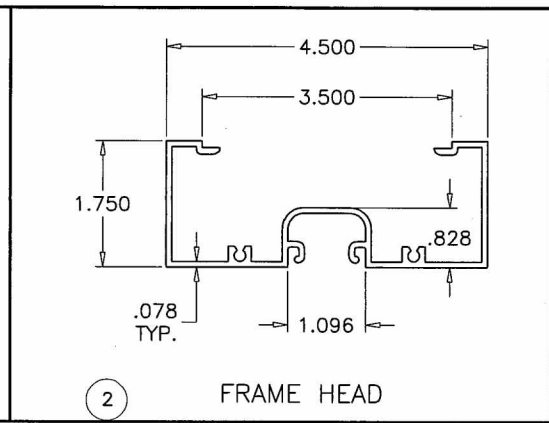
date: 08-21-15
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W15-52

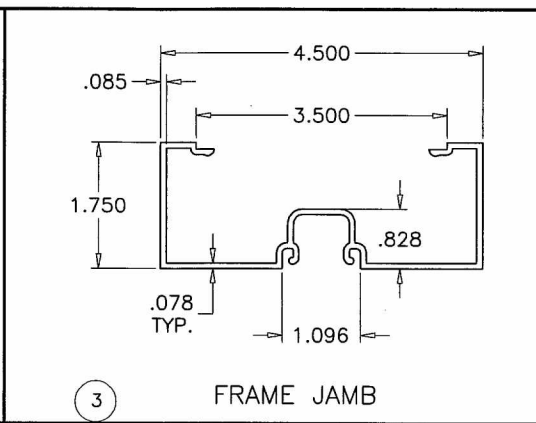
sheet 5 of 8



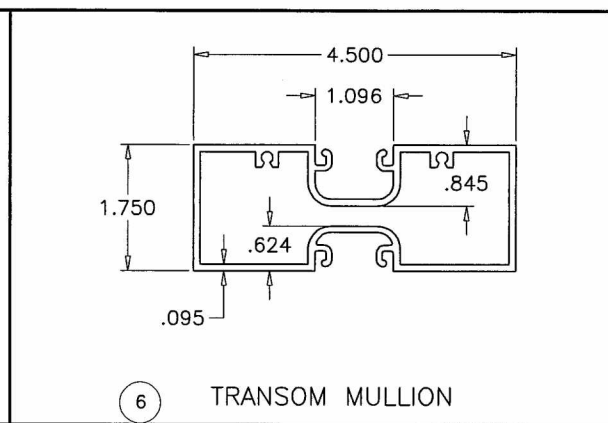
1 TRANSOM HEAD



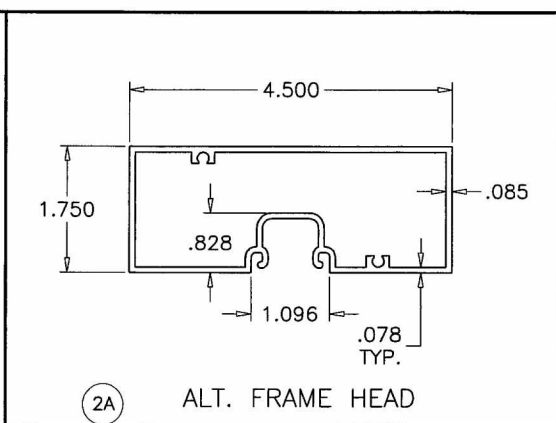
2 FRAME HEAD



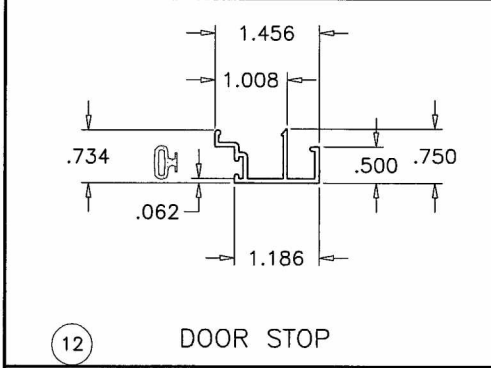
3 FRAME JAMB



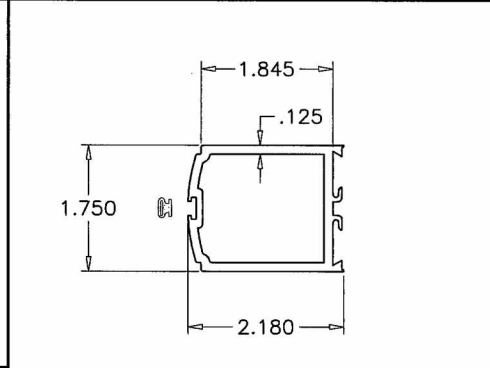
6 TRANSOM MULLION



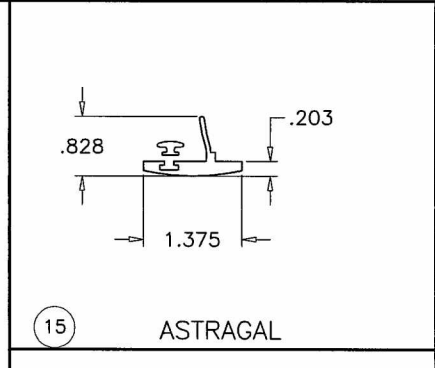
2A ALT. FRAME HEAD



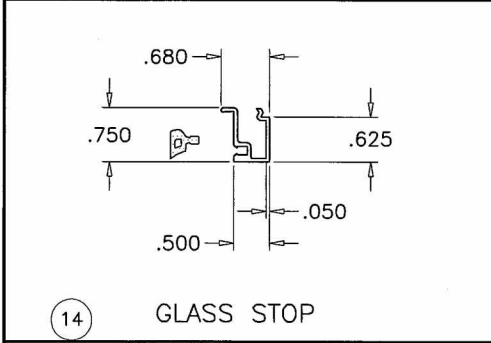
12 DOOR STOP



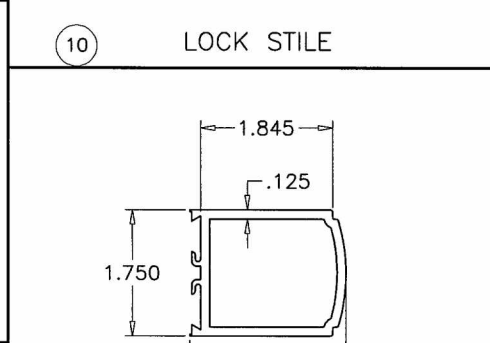
10 LOCK STILE



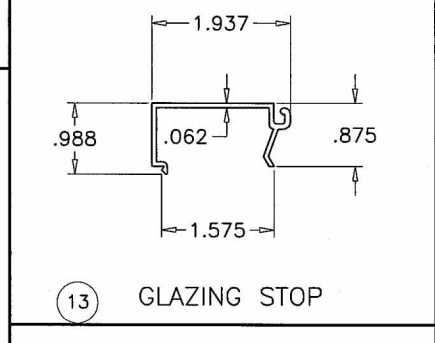
15 ASTRAGAL



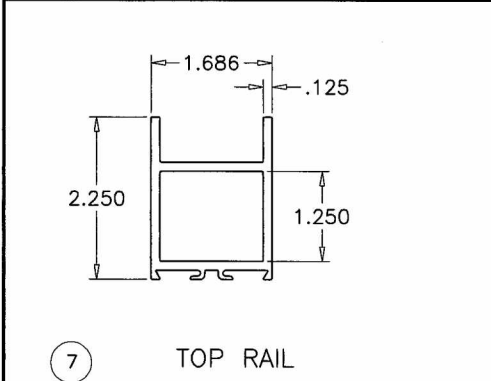
14 GLASS STOP



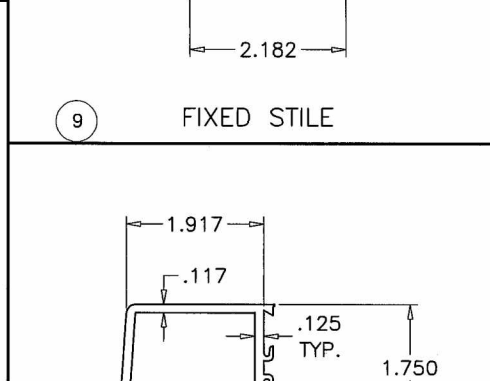
9 FIXED STILE



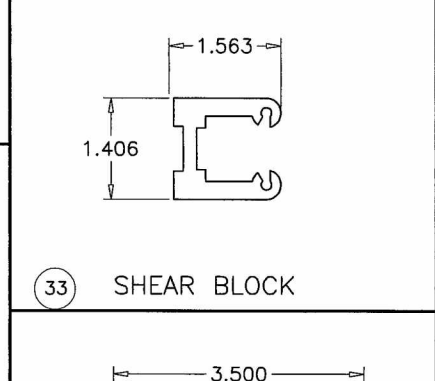
13 GLAZING STOP



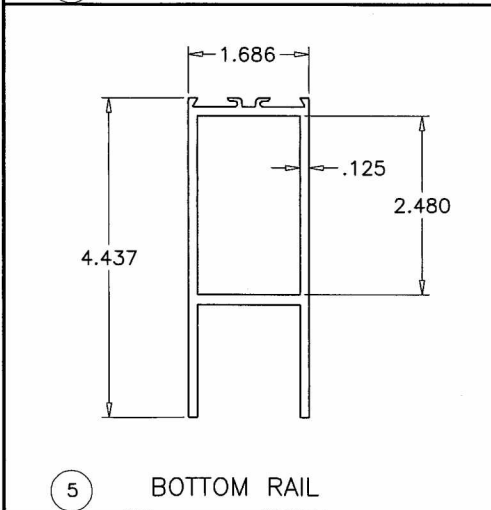
7 TOP RAIL



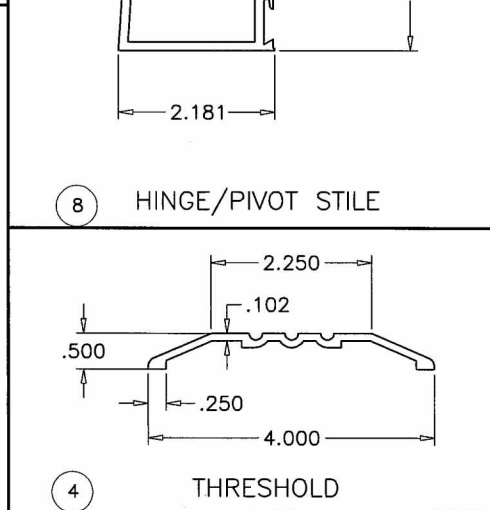
8 HINGE/PIVOT STILE



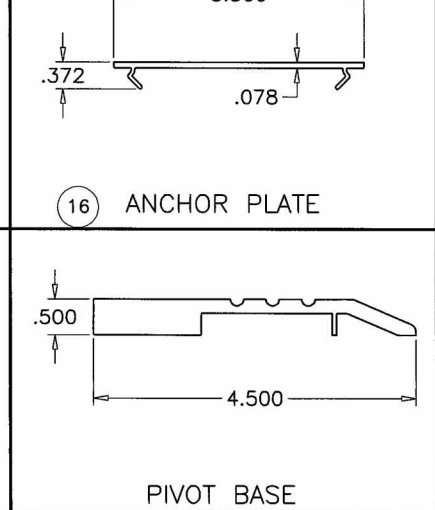
33 SHEAR BLOCK



5 BOTTOM RAIL



4 THRESHOLD



16 ANCHOR PLATE

PIVOT BASE

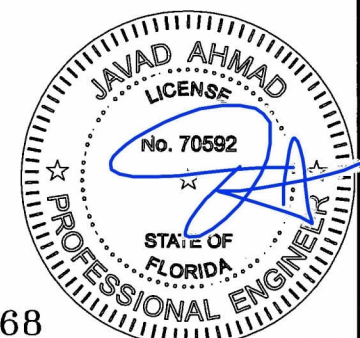
afc
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL/W15-52USA

DNS-20 ALUM OUT-SWING ENTRANCE DOOR (N.I.)
 US Aluminum
 Division Of C.R. Laurence Co., Inc.
 7500 N.W. 69TH AVE.
 MIAMI, FL 33166
 TEL. (305) 888-0077 FAX. (305) 884-3111

no	date	by	description

date: 08-21-15
 scale: 3/8" = 1"
 dr: by: HAMID
 chk: by:

drawing no.
W15-52
 sheet 6 of 8



FL #18368

Aug 26 2015 6:08 PM

LOCK SINGLE DOORS:

THREE POINT LOCK REGENT SERIES #2222
THUMB TURN ON INTERIOR AND KEY OPERATED
ON EXTERIOR AT 44-1/2" FROM BOTTOM.

LOCK DOUBLE DOORS:

ACTIVE LEAF:

THREE POINT LOCK REGENT SERIES #2222
THUMB TURN ON INTERIOR AND KEY OPERATED
ON EXTERIOR AT 44-1/2" FROM BOTTOM.

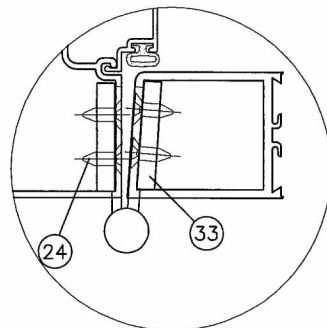
INACTIVE LEAF

MANUALLY OPERATED FLUSH BOLTS REGENT #2502
WITH 3/8" DIA. BOLTS AT 12" FROM TOP AND BOTTOM

HINGES:

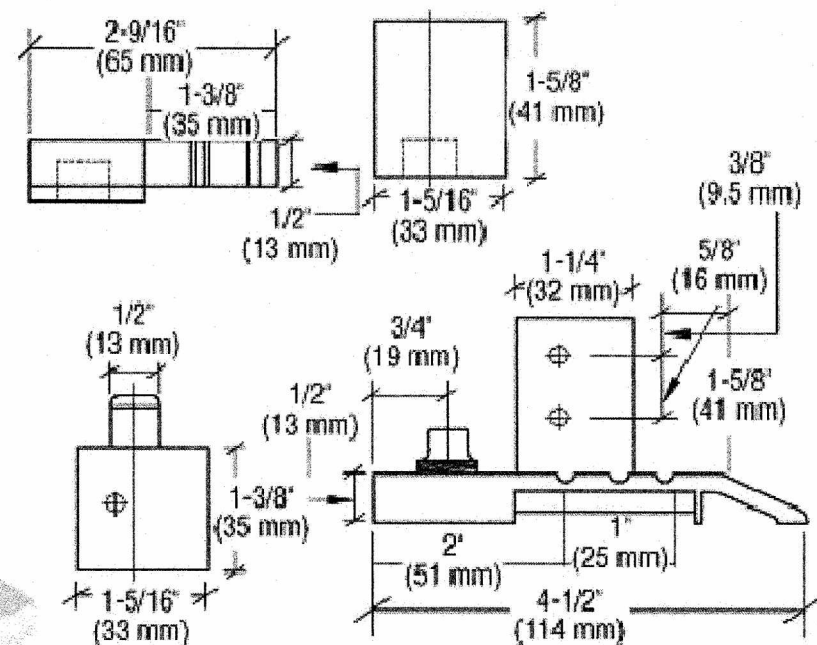
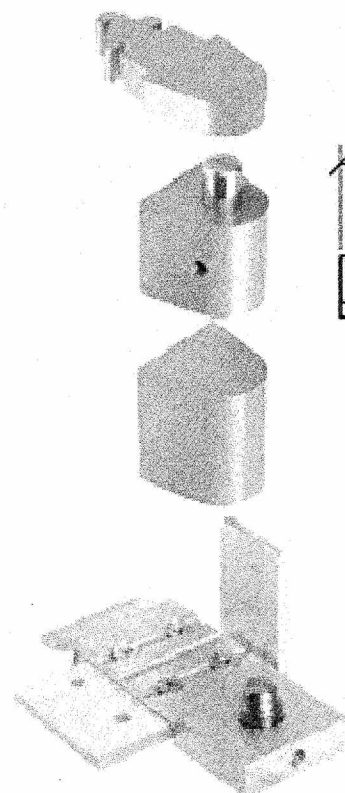
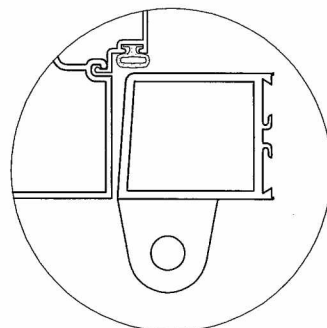
OPTION #1:

4-1/2 X 4" X .134" THK. TWO PIECE STAINLESS STEEL
BUTT HINGES BY HAGER (2) AT 8" FROM TOP AND BOTTOM
(1) AT MIDSPAN OF LEAF AS REQD.



OPTION #2:

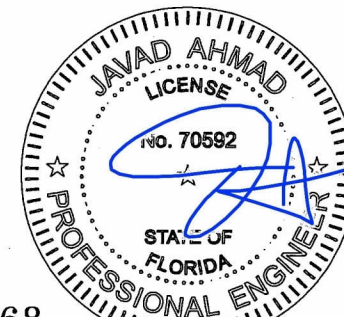
CAST ALUMINUM PIVOT HINGES BY REGENT
(2) AT TOP AND BOTTOM
(1) AT MIDSPAN OF LEAF AS REQD.



ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	BCE-5457	1	TRANSOM HEAD	6063-T6	-
2	BCE-5451	1	FRAME HEAD	6063-T6	-
2A	BCE-5433	1	ALT. FRAME HEAD	6063-T6	-
3	BCE-5450	2	OPEN BACK JAMB	6063-T6	-
4	BCE-3340	1	THRESHOLD	6063-T6	-
5	DLD-33	1/ LEAF	BOTTOM RAIL	6063-T6	-
6	BCE-452	AS REQD.	TRANSOM MULLION	6063-T6	-
7	DLD-32	1/ LEAF	TOP RAIL	6063-T6	-
8	DLD-1	AS REQD.	HINGE OR PIVOT STILE	6063-T6	-
9	DLD-2	1/ LEAF	FIX STILE (INACTIVE PANEL)	6063-T6	-
10	DLD-10	1/ LEAF	LOCK STILE (ACTIVE PANEL)	6063-T6	-
12	BCE-460	AS REQD.	DOOR STOP	6063-T6	-
13	BCE-459	AS REQD.	GLAZING STOP	6063-T6	-
14	DLD-6	AS REQD.	GLASS STOP	6063-T6	-
15	-	1/ DOOR	ASTRAGAL FOR XX ONLY	6063-T6	-
16	BCE-475	AS REQD.	ANCHOR PLATE, 3" LONG AT ANCHORS	6063-T6	-
18	-	AS REQD.	GASKET, BULB DUROMETER 67, BASE DUROMETER 90	SANTOPRENE	-
19	2546B	AS REQD.	GLAZING GASKET, DUROMETER 65±5	SOFT PVC	MELTPOINT PLASTICS
20	-	2/ LITE	SETTING BLOCK (DOOR), DUROMETER 90±5	EPDM	1/4" X 1/2" X 1" LONG
21	-	2/ LITE	SETTING BLOCK (TRANSOM), DUROMETER 90±5	EPDM	7/16" X 3/4" X 1-7/8" LONG
23	#10 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	-	P.H. SMS
24	12-24 X 1/2"	4/ HASP	HINGE INSTALLATION SCREWS	-	F.H. MACHINE SCREWS
26	BW-76	-	BULB W'STRIPPING, DUROMETER 70±5	VINYL	.444"H X .280 T-SLOT
27	T4216-K	-	PILE WITH FIN WEATHERSTRIPPING	-	ULTRAFAB
29	DH-4	-	SHEAR BLOCK	6063-T6	-
30	-	2	3 X 2 X 1/8" ANGLE, 1-3/4" LONG	ALUMINUM	-
32	-	2/ LEAF	FLUSH BOLT GUIDE CHANNEL	STEEL	3" LONG
33	-	2/ HINGE	HINGE REINFORCING PLATES	STEEL	1-1/2" X 1/4" X 8" LONG

SEALANTS:

FRAME CORNERS, ASSEMBLY SCREWS AND HEADS OF
ANCHOR SCREWS AT SILL TO BE SEALED WITH SEALER.
LEAF JOINTS SEALED WITH SILICONE.



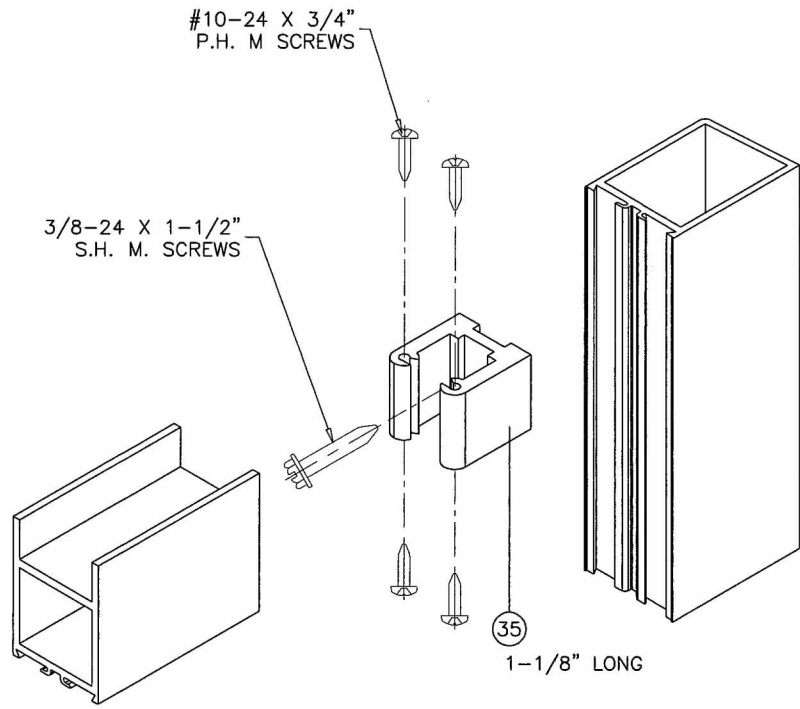
FL #18368

Aug 26 2015 6:08 PM

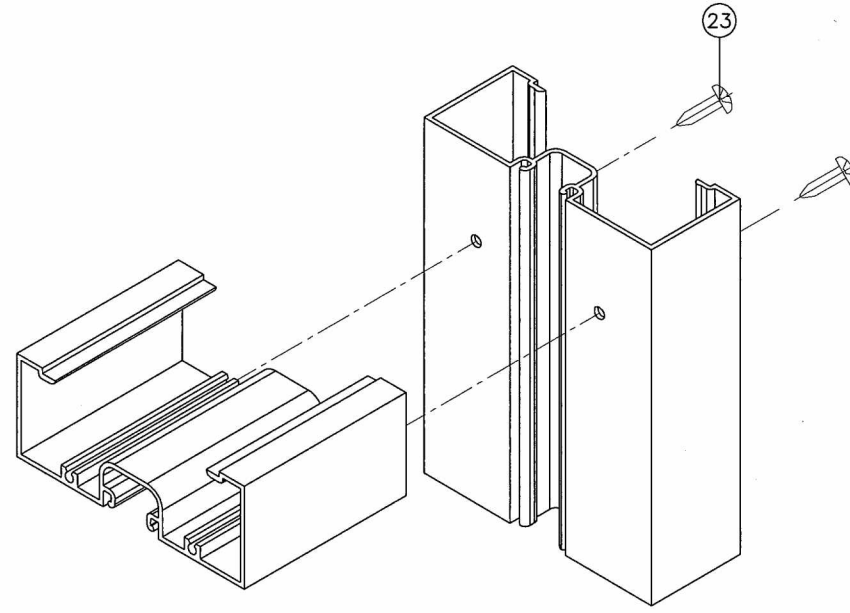
afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL\W15-52USA

DNS-20 ALUM OUT-SWING ENTRANCE DOOR (N.I.)
US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077 FAX. (305) 884-3111

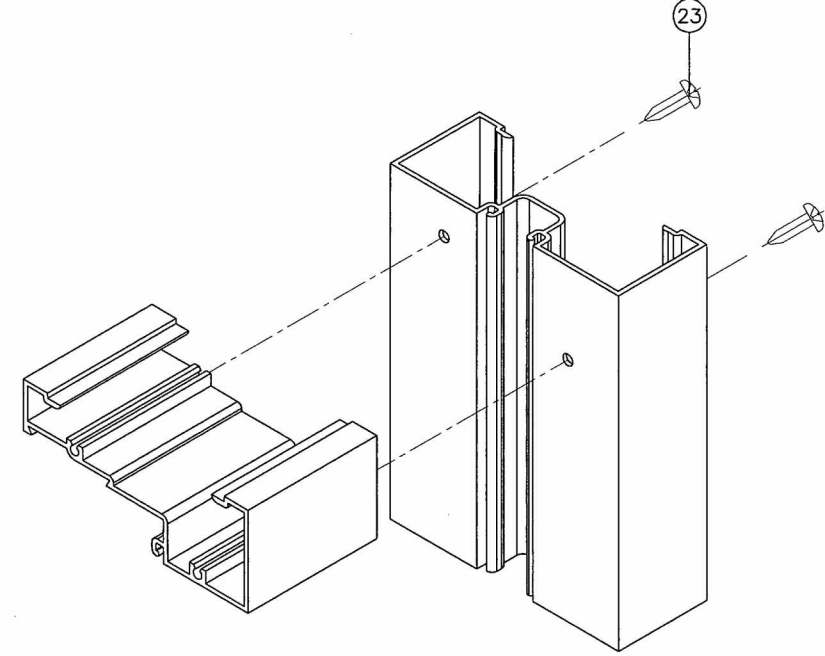
revisions:	no	date	by	description
date:	08-21-15	scale:	3/8" = 1"	
dr. by:	HAMID	chk. by:		
drawing no.	W15-52			
sheet	7 of 8			



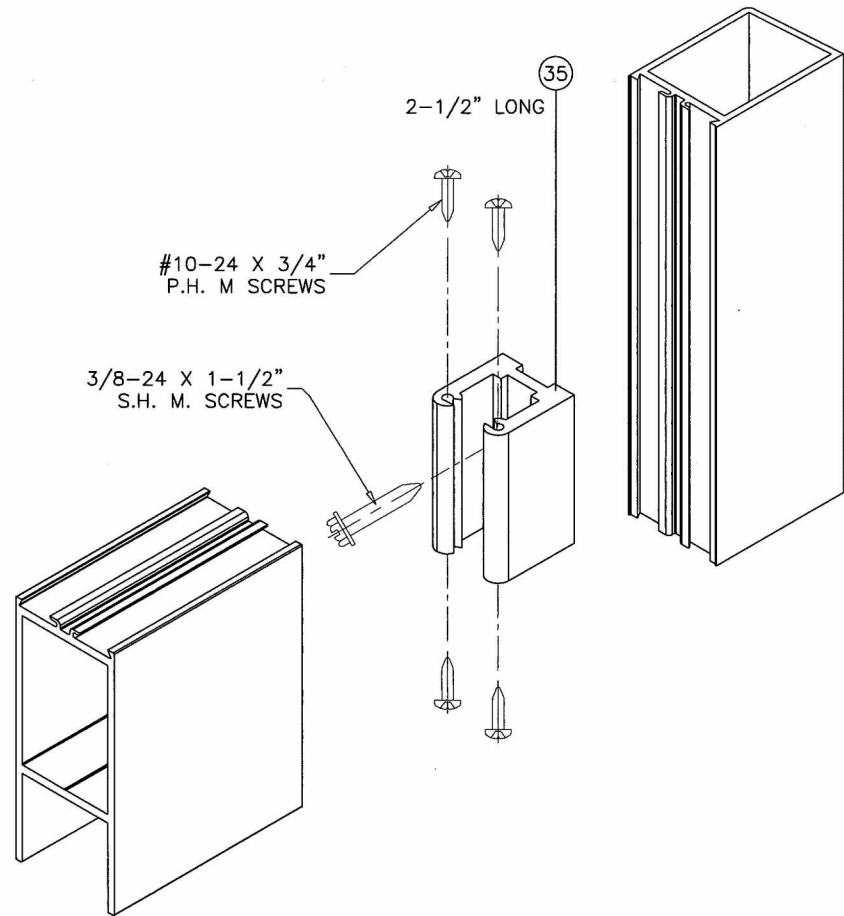
DOOR LEAF UPPER CORNER



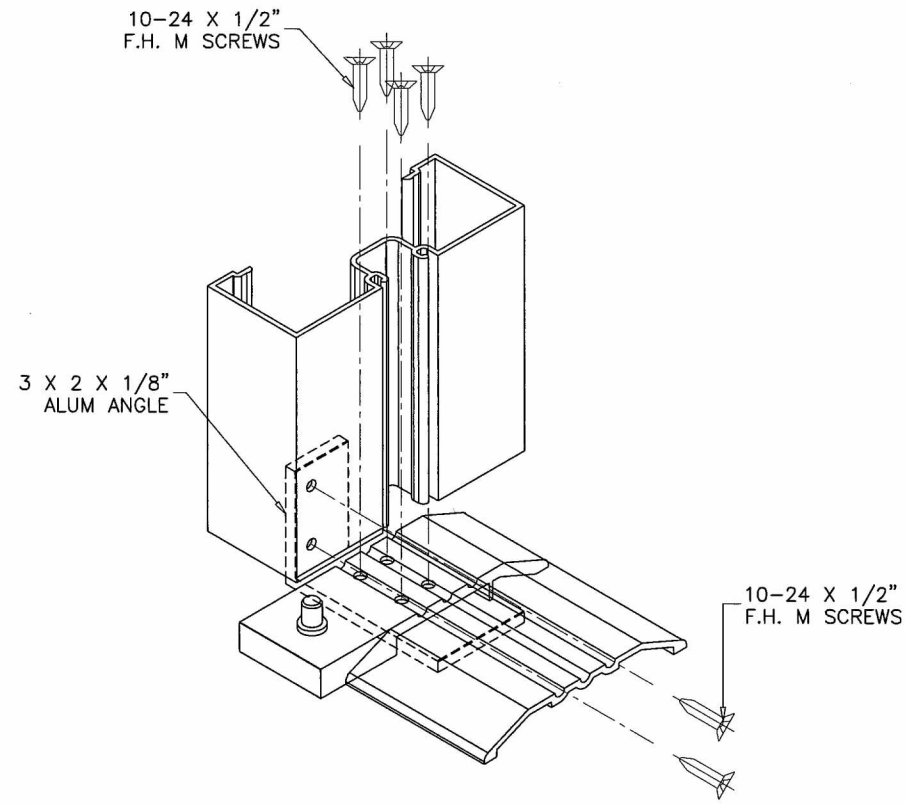
FRAME TOP CORNER



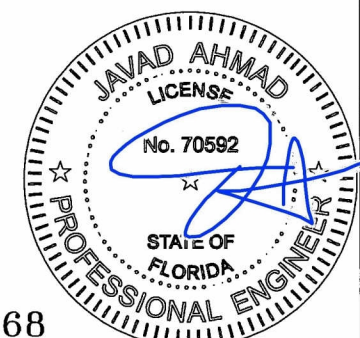
TRANSOM CORNER



DOOR LEAF LOWER CORNER



FRAME LOWER CORNER



FL #18368

Aug 26 2015 6:08 PM

afc
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W15-52USA

DNS-20 ALUM OUT-SWING ENTRANCE DOOR (N.I.)
 US Aluminum
 Division Of C.R. Laurence Co., Inc.
 7500 N.W. 69TH AVE.
 MIAMI, FL 33166
 TEL. (305) 888-0077 FAX. (305) 884-3111

no	date	by	description

date: 08-21-15
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W15-52
 sheet 8 of 8