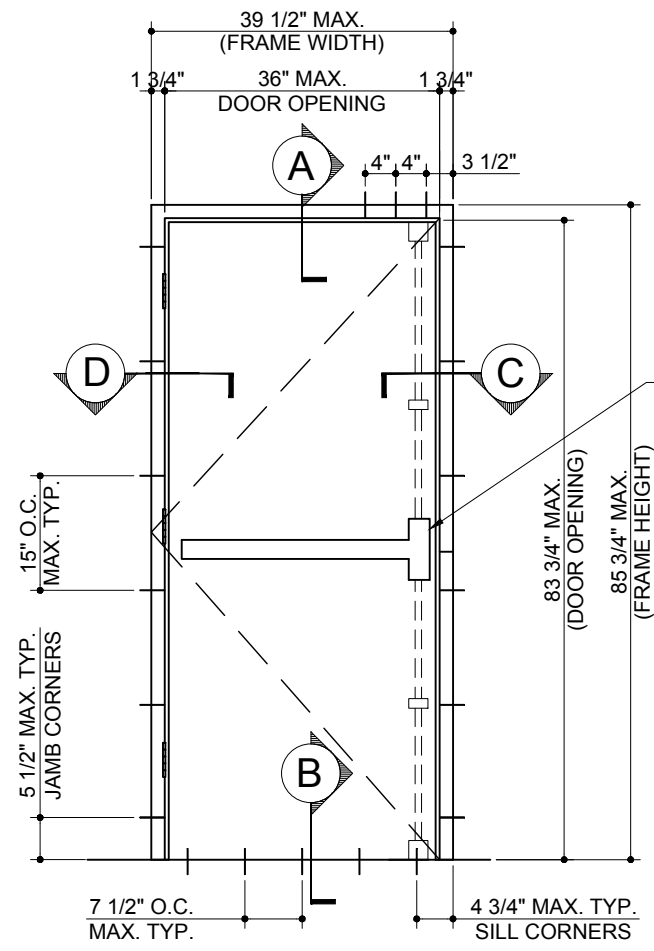
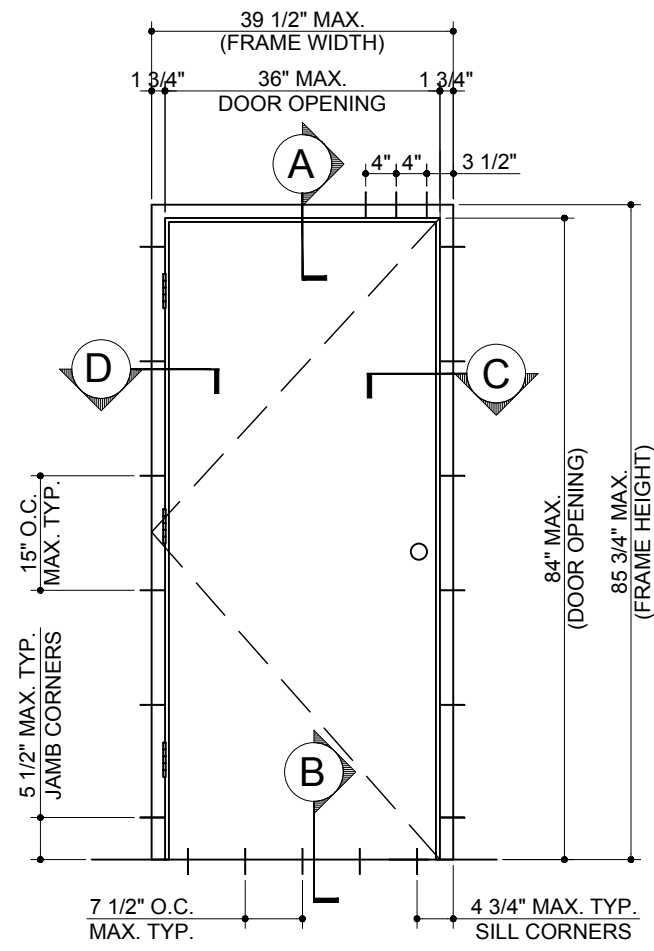
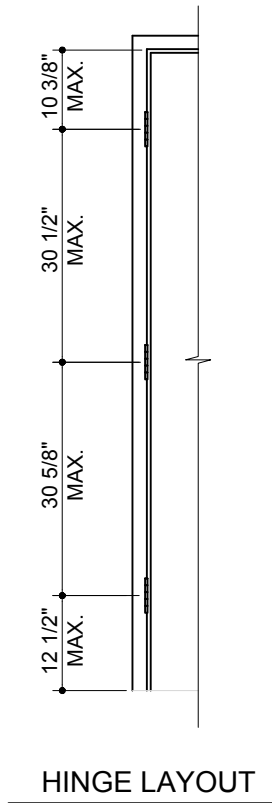




PANIC BAR ATTACHED WITH (2) #12 -20 M.S. AT DOOR STRIKE EDGE & (2) #10 -25 M.S. AT HINGE SIDE

Digitally signed by Yiping Wang
Location: 12781 Miramar Parkway #301, Miramar, FL
Reason: I am the author of this document
Contact Info: mcy@mcyengineering.com/(305)-588-5224
Date: 2021.08.05 17:04:36+08'00



DESIGN LOADS
(FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC
+95.0 PSF
- 95.0 PSF

LOCK OPTION #1:
FALCON/YALE SINGLE POINT CYLINDRICAL LATCH W/ TWO 8-32 X 1/2" SS FH MS.

DESIGN LOADS
(FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC
+95.0 PSF
- 75.0 PSF

LOCK OPTION #2:
ALUTECH VR531 SURFACE VERTICAL ROD PANIC DEVICE W/ OUTSIDE PULL HANDLE & KEY

LIMITATIONS OF USE

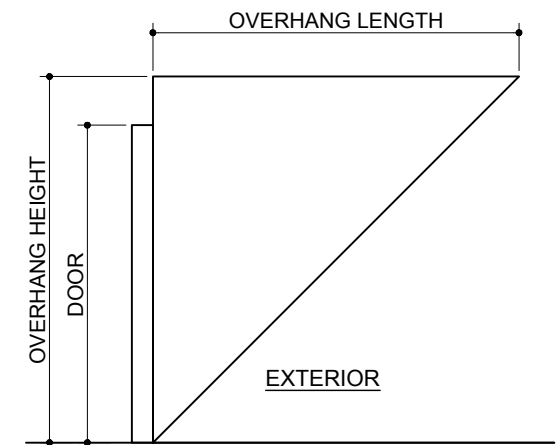
A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

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.

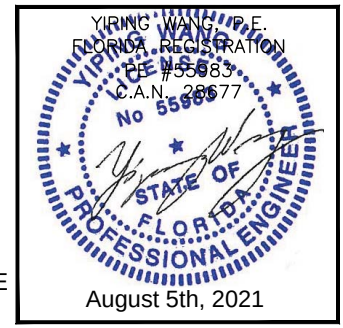
D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD. ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT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



OH RATIO = $\frac{\text{OVERHANG LENGTH}}{\text{OVERHANG HEIGHT}}$

NOTE:
UNITS NOT APPROVED FOR WATER INFILTRATION MUST BE INSTALLED AT LOCATIONS PROTECTED BY AN OVERHANG MEETING CRITERIA AS PER ILLUSTRATION BELOW OR IN NON-HABITABLE AREAS WHERE WATER INFILTRATION IS ACCEPTABLE.



SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM DOOR(LMI & SMI)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE 7TH EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.
- DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.
- 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.

NOTES:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2020 FLORIDA BUILDING CODE 7TH EDITION SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY ALUTECH CORPORATION MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE
- WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- DOOR STILE: MIN. 6063-T5 ALUMINUM $F_y = 26.4$ ksi, $F_u = 26.7$ ksi
- DOOR PANEL RAILS: MIN. 6063-T6 ALUMINUM $F_y = 28.5$ ksi, $F_u = 31$ ksi
- DOOR PANEL SKIN: MIN. 3003-H14 0.040" ALUMMINUM $F_y = 26.4$ ksi, $F_u = 26.7$ ksi
- DOOR FRAME: MIN. 6063-T6 ALUMINUM $F_y = 28.5$ ksi, $F_u = 31$ ksi
- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-16, MULTIPLIED BY 0.6, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.

NO	DATE	DESCRIPTION
1	4/28/14	UPDATE TO 2014 FBC
2	11/07/18	UPDATE TO 2017 FBC
3	07/29/21	UPDATE TO 2020 FBC

MCY ENGINEERING, INC.
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www.MCYengineering.com mcy@mcyengineering.com

SERIES 2001 FLUSH SINGLE PANEL OUTSWING ALUMINUM INSULATED DOOR (LMI & SMI)

913 INVESTMENTS, LLC.
dba ALUTECHDOORS
7860 NW 71ST STREET, SUITE 107
MIAMI, FL 33166
PH: (786) 429-5080
FAX: (786) 429-5400

FLORIDA APPROVAL	
FL#17651	
DATE	07-29-2021
SCALE	AS NOTED
DRAWN	james
PROJECT	MCY 15-017
DRAWING NO.	
AD15-09	
1 OF 6	

TYPICAL ANCHORS @ JAMB: (REFER TO ELEVATION FOR SPACING)

- TYPE A

1/4" DIA. ULTRACON+ BY 'DEWALT'

(Fu = 164 ksi, Fy = 148 ksi)

1-1/4" MIN. EMBED DIRECTLY INTO HOLLOW BLOCK OR CONCRETE

1-1/2" MIN. INTO WOOD OR GROUT FILLED BLOCK
- TYPE B

5/16" DIA. ULTRACON BY 'DEWALT'

(Fu = 177 ksi, Fy = 155 ksi)

1-1/4" MIN. EMBED. INTO GROUT FILLED BLOCK OR CONCRETE

1-1/2" MIN. EMBED. INTO WOOD
- TYPE C

1/4" DIA. KWIK-CON II+ BY 'HILTI'

(Fu = 138 ksi, Fy = 137 ksi)

1-1/4" MIN. EMBED INTO C90 BLOCK OR CONCRETE

1-1/2" MIN. EMBED INTO WOOD
- TYPE D

18 GA 5/16" DIA. WOOD SCREWS

(Fy = 60 ksi)

DIRECTLY INTO WOOD STRUCTURE G = 0.55 MIN.

1-1/2" MIN. EMBED
- TYPE E

1/4" SMS OR TEKS

INTO 1/8" THK. MIN. METAL (6063-T6 MIN.)

TYPICAL ANCHORS @ THRESHOLD:

- TYPE F

1/4" DIA. ULTRACON+ BY 'DEWALT'

(Fu = 164 ksi, Fy = 148 ksi)

DIRECTLY INTO CONCRETE

1-1/4" MIN. EMBED

TYPICAL EDGE DISTANCE:

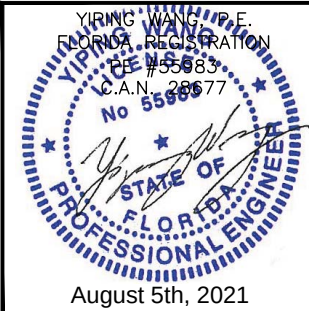
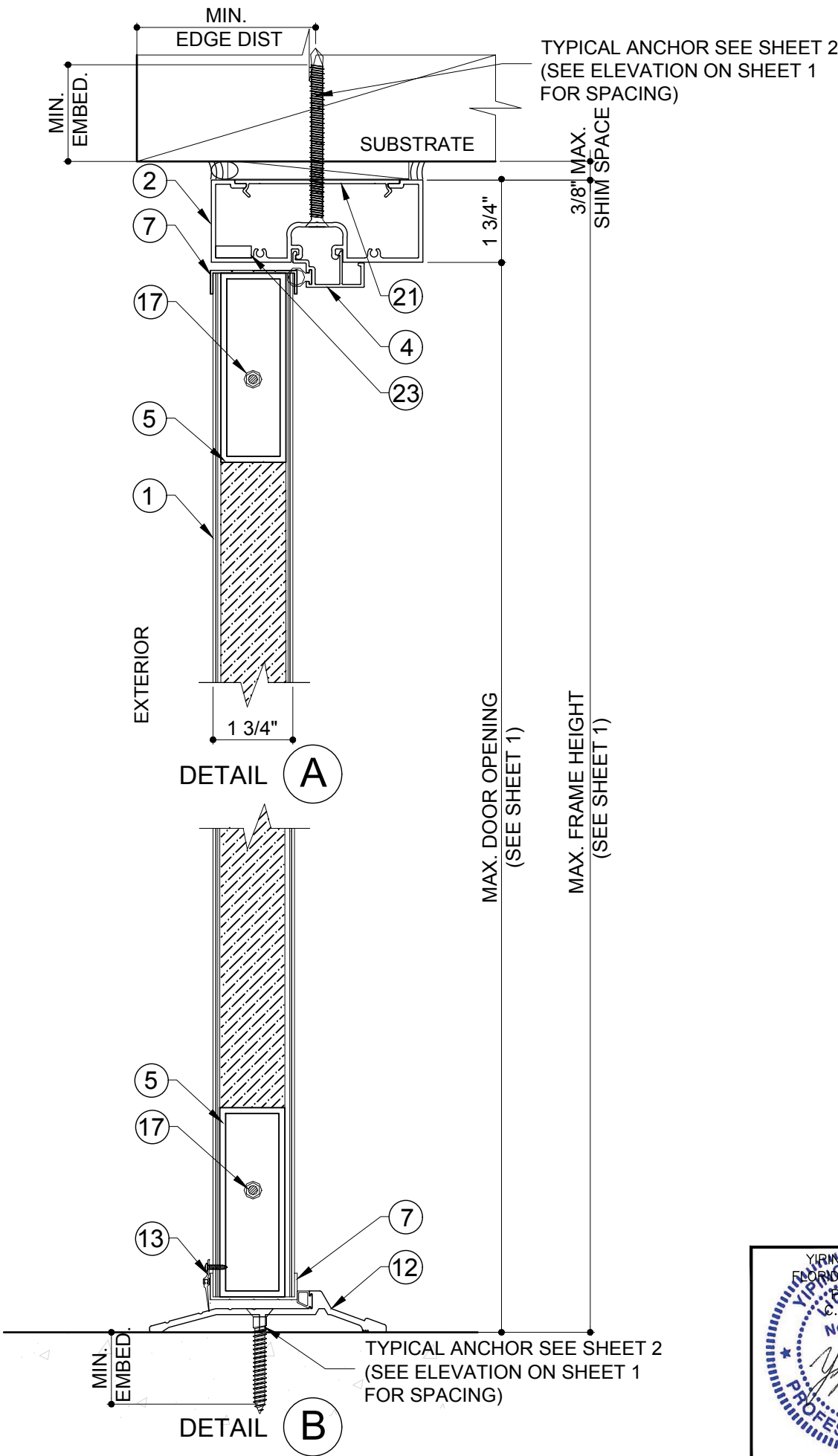
INTO CONCRETE AND CONC. BLOCK = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE F'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK F'm = 2000 PSI MIN.

SEALANT:

ALL FRAME JOINTS AND CORNERS TO BE SEALED WITH SILICONE
AT PERIMETER

HINGES:
STEEL BUTT HINGES 3 PER LEAF.
FOR HINGE LOCATION SEE SHEET 1.
TO BE FASTENED BY (4) #12-24 x 1/2" FLATHEAD MACHINE
SCREWS TO THE DOOR PANEL AND TO THE FRAME.
TOTAL OF (8) SCREWS.

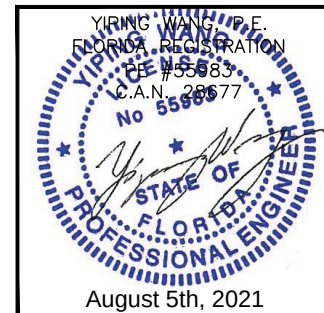
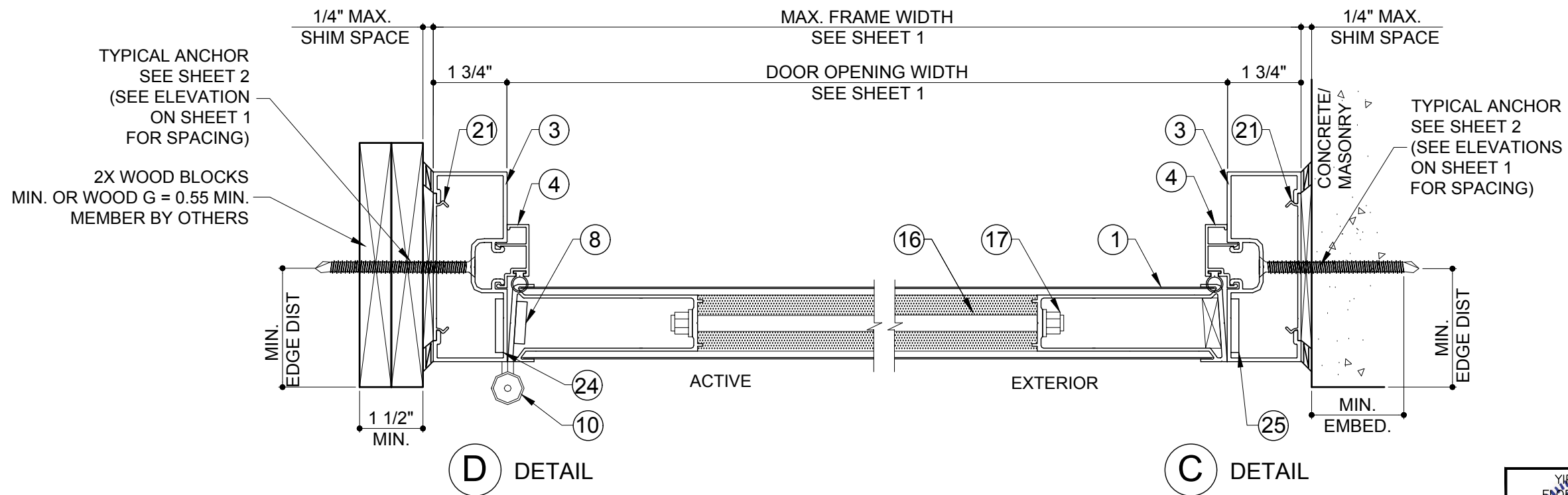
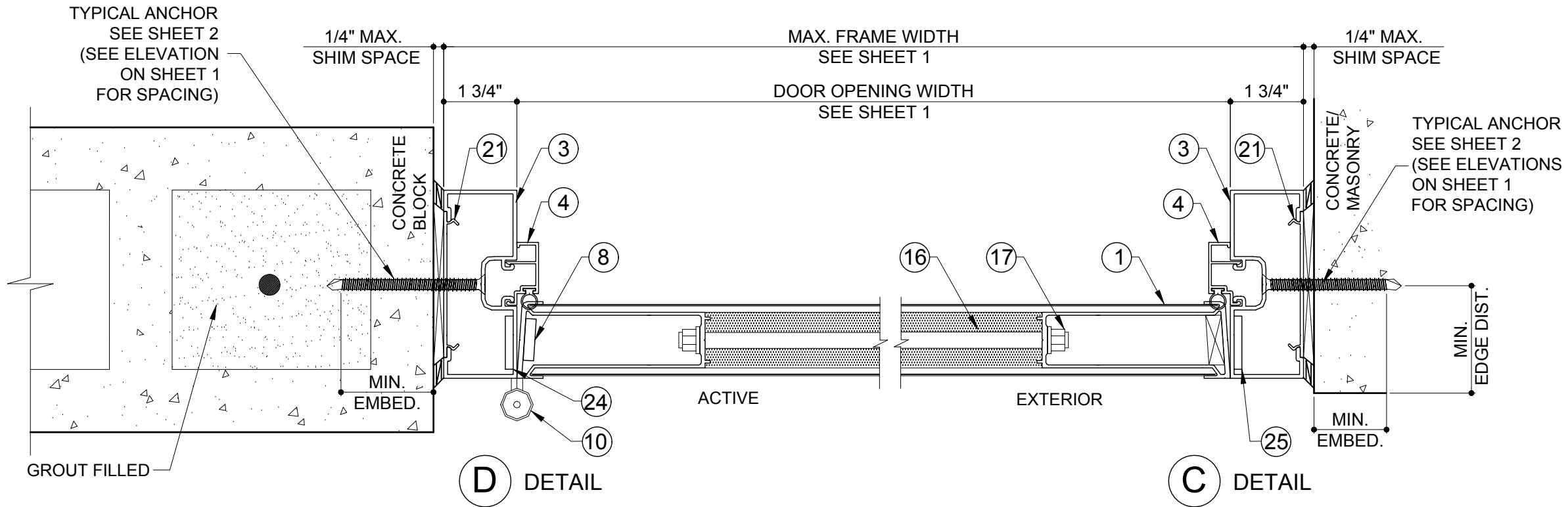


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FLORIDA APPROVAL		FL#17651	
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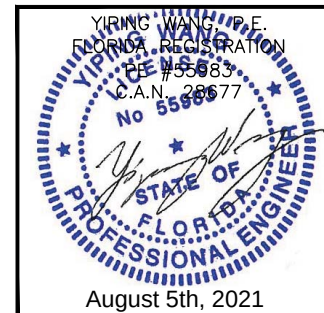
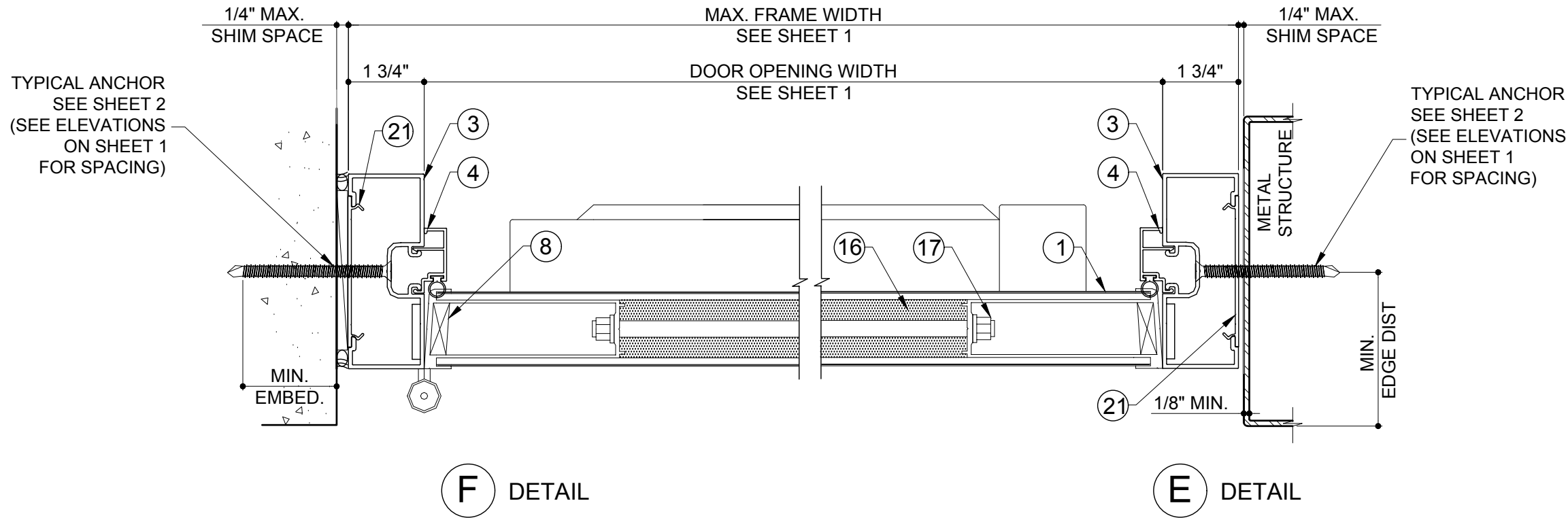
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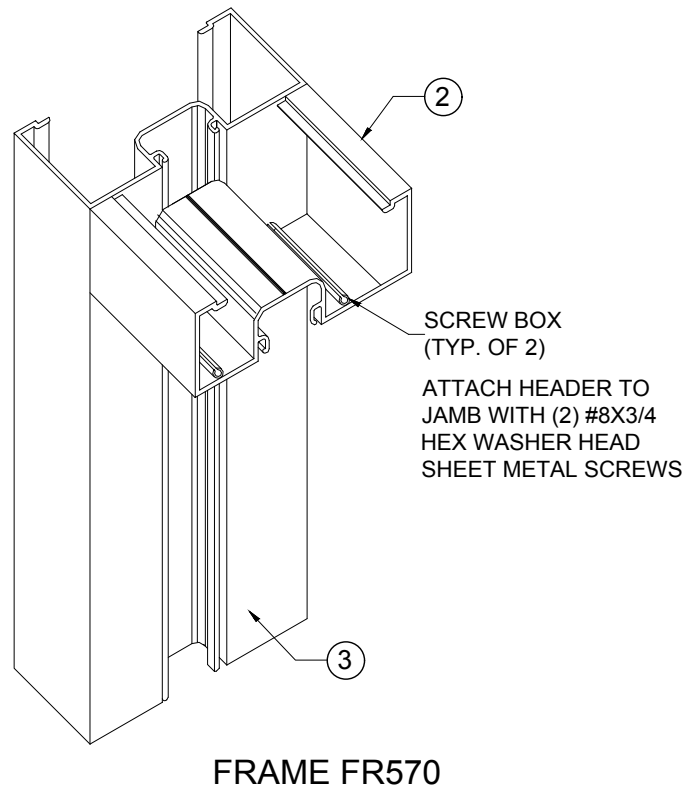
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DETAIL 'A': CORNER CONSTRUCTION

ALUMINUM FRAME: ALUMINUM DOOR FRAMES SHALL BE SERIES FR575 1-3/4" X 5-3/4" OPEN BACK WITH AN INTEGRAL DOOR STOP OR FR450S 1-3/4" X 4-1/2" OPEN BACK WITH A SNAP ON DOOR STOP.

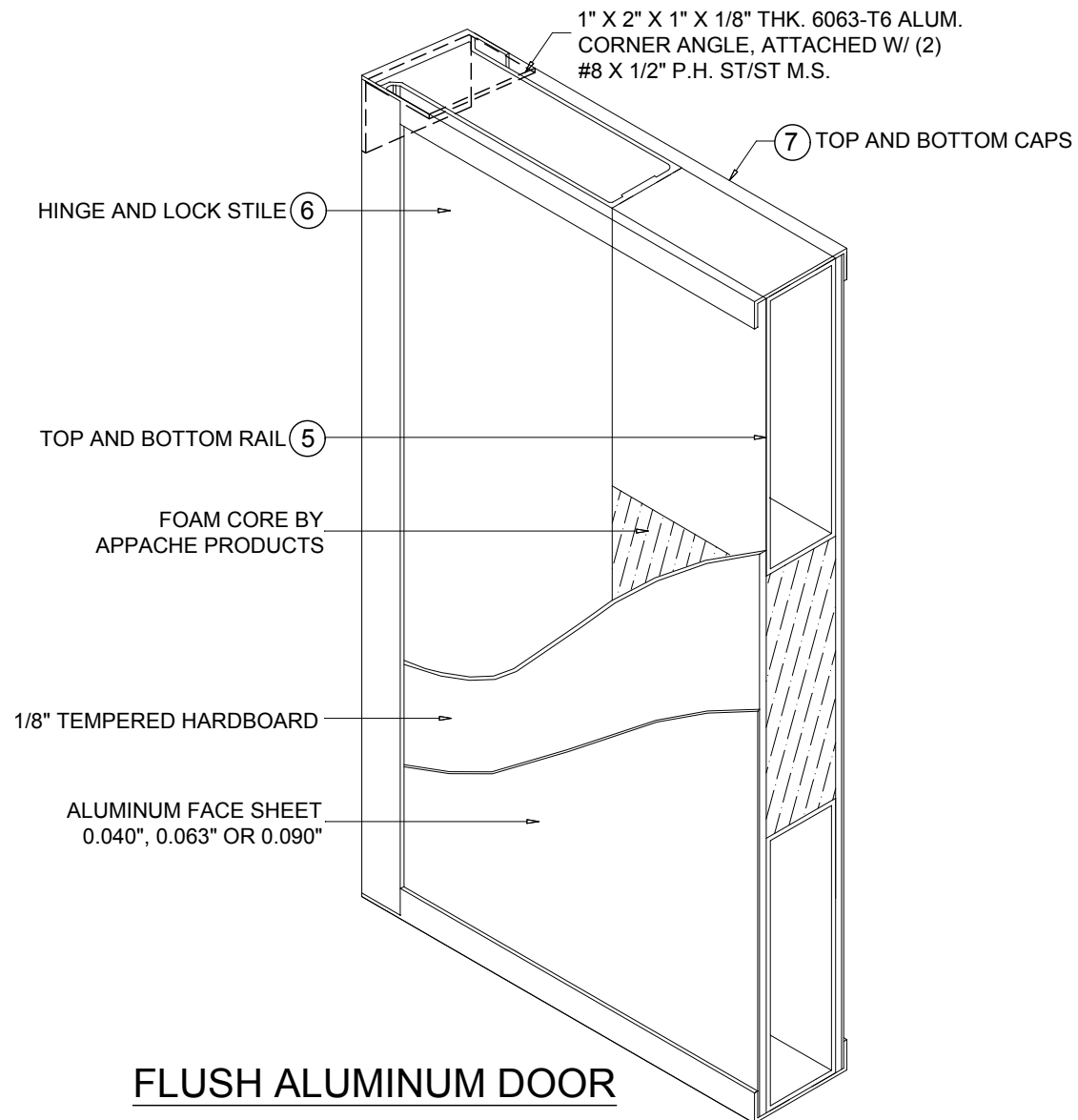
MATERIAL: FRAME MEMBERS SHALL BE MADE OF 6063-T6 EXTRUDED ALUMINUM ALLOY WITH A MINIMUM WALL THICKNESS OF 0.112" FOR THE FR575 AND 0.090" FOR THE FR450S FRAME AND A MIN. YIELD STRENGTH OF 28,750 PSI. ALL SCREWS AND MISCELLANEOUS FASTENERS SHALL BE STAINLESS STEEL, OR OTHER CORROSION RESISTANT MATERIAL. WEATHER STRIPPING SHALL BE SANTOPRENE BULB.

CONSTRUCTION: FRAME SHALL BE SQUARED CUT TO PROVIDE NEAT HAIRLINE JOINTS. JAMBS AND HEADER SHALL BE FASTENED WITH STAINLESS STEEL SCREWS. ALL FRAMES SHALL BE MORTISE FOR HINGES AND LOCK STRIKE PLATES. SURFACE MOUNTED HARDWARE SHALL BE DRILLED AND TAPPED IN THE FIELD. HINGE, LOCK AND STRIKE REINFORCING PLATE SHALL BE MADE OF 1/4" ALUMINUM PLATE 6063-T6 ALLOY.

INSTALLATION: INSPECT WALL CONDITION, IF NECESSARY MAKE ANY WALL REPAIRS OR ADJUSTMENTS BEFORE INSTALLATION OF DOOR FRAME. ASSEMBLE DOOR FRAME BY ATTACHING JAMBS TO HEADER USING (3) #10X1" PAN HEAD SCREWS ON THE FR575 AND (2) #8-1 ON THE FR450S FRAME (DO NOT FILL JAMBS OR HEADER WITH MORTAR). ERECT FR575 HINGE JAMB TO WALL AND FR570S FRAME TO WALL AS PER ANCHOR SCHEDULE. AFTER HINGE SIDE IS INSTALLED, START WITH LOCK SIDED AND REPEAT THE SAME PROCEDURE. USE SHIMS AT HINGE AND LOCK SIDE TO PROPERLY LEVELED, SQUARED AND PLUMBED FRAME IF NECESSARY (MAXIMUM SHIM SPACE TO BE 1/4")

HARDWARE: EACH DOOR SHALL BE EQUIPPED WITH (3) 4 1/2" X 4 1/2" X .134" HINGE, ATTACHED TO DOOR AND FRAME WITH (4) 12-24 FLAT HEAD MACHINE SCREW, (1) YALE 5407 CYLINDRICAL LOCK 2-3/4" BACKSET AND 2-1/8" BORE WITH A 4-7/8" STAINLESS STEEL STRIKE PLATE, (1) BUMPER THRESHOLD 1" HIGH AND (1) DOOR SWEEP #DS-10 OR EQUAL.

PROTECTION & CLEANING: AFTER ERECTION, THE GENERAL CONTRACTOR SHALL ADEQUATELY PROTECT EXPOSED PORTIONS OF ALUMINUM SURFACES FROM DAMAGE BY PLASTER, LIME, ACID, CEMENT, OR OTHER HARMFUL COMPOUNDS. AFTER INSTALLATION, ALL ALUMINUM SHALL BE CLEANED WITH SOAPY WATER OR OTHER MILD CLEANING SOLUTION.



FLUSH ALUMINUM DOOR

ALUMINUM DOOR: ALUMINUM DOOR TO BE NOMINAL 1-3/4" THICK FLUSH DESIGN, SERIES 2001. DOOR STILES AND RAILS SHALL HAVE A STRONG, RIGID ALUMINUM SUB-FRAME WITH INTEGRAL EDGE CAPS. THE SUB-FRAME SHALL BE CONNECTED BY A 3/8" STEEL TIE ROD TOP AND BOTTOM. NO SNAP-ON OR APPLIED DOOR EDGES AT HINGE OR LOCK STILES.

FACE SHEET: FACE SHEET SHALL BE ALUM. 6063-T6 ALLOY WITH A MINIMUM THICKNESS OF 0.040", 0.063", OR 0.090" WITH A MINIMUM YIELD STRENGTH OF 26,450 PSI. FACE SHEETS SHALL BE CONCEALED UNDER A 1/2" EDGE CAP FULL PERIMETER.

INSULATED CORE: ALL VOIDS BETWEEN SUB-FRAMES SHALL BE FILLED A ISOCYANURATE (ISO-25) RIGID FOAM BOARD AS MANUFACTURED BY APACHE PRODUCTS CO #98-0904.03., WITH AN "R" VALUE OF 9. CORE SHALL BE LAMINATED BETWEEN TWO SHEETS OF 1/8" TEMPERED HARDBOARD FOR IMPACT REINFORCING.

LAMINATION: SUB-FRAME, FACE SHEETS AND INSULATED CORE SHALL BE BONDED TOGETHER WITH A MOISTURE CURE, ONE-PART ADHESIVE AS MANUFACTURED BY MORTON INTERNATIONAL OR EQUAL UNDER PRESSURE TO FORM A WATER, HEAT, AND CHEMICAL RESISTANT BOND.

ALUMINUM SUB-FRAME FULL PERIMETER: 1-3/8" X 4" SUB-FRAME WITH AN INTEGRAL EDGE CAP AT HINGE AND LOCK EDGE, TOP AND BOTTOM OF DOOR SHALL BE CAPPED TO INSURE PROPER PROTECTION FROM THE ELEMENTS. MINIMUM WALL THICKNESS AT HINGE AND LOCK EDGE SHALL BE 0.125" AND BEVEL 1/8" IN 2". STILE AND RAILS SHALL BE CONNECTED WITH A 3/8" PLATED STEEL TIE ROD TOP AND BOTTOM. OVERALL DOOR TOLERANCES SHALL BE AS SET BY THE AMERICAN ALUMINUM MANUFACTURE'S ASSOCIATION.

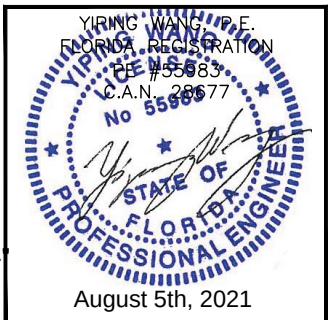
HARDWARE REINFORCING: HINGE REINFORCING PLATES SHALL BE 1/4" X 1" X 7" LONG ALUMINUM PLATE 6063-T6 MOUNTED TO DOORS WITH (4) 12-24 MACHINE SCREWS, LOCK REINFORCING PLATES SHALL BE 1/4" X 1" X 1 1/2" LONG ALUMINUM PLATE 6063-T6 MOUNTED TO DOOR STILE WITH (1) 10-24 MACHINE SCREW.

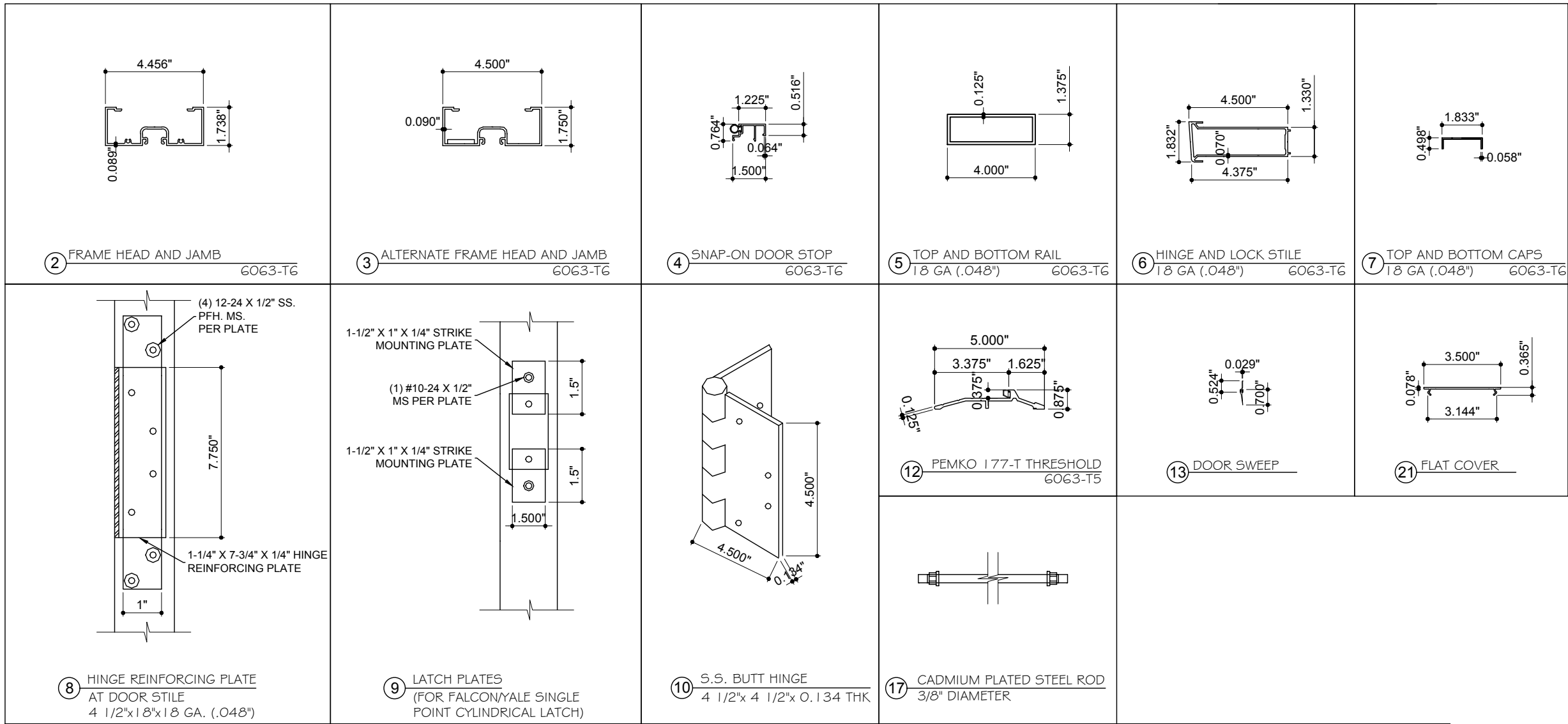
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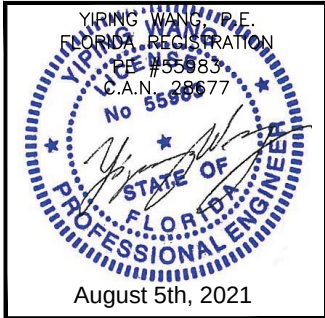
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BILL OF MATERIALS

ITEM	PART NO.	MATERIAL	QTY.	DESCRIPTION	MANUFACTURER / SUPPLIER / REMARKS
1	-	ALUM.	2 PER PANEL	DOOR PANEL SKIN	ALUTECH/913 INVESTMENTS, LLC. 20 GA. (0.036" MIN.) Fy=26.6 KSI MIN.
2	FR450	ALUM. 6063-T6	AS REQD.	FRAME HEAD AND JAMB	ALUTECH/913 INVESTMENTS, LLC. 18 GA. (0.048" MIN.) Fy=28.9 KSI MIN.
3	FR450S	ALUM. 6063-T6	AS REQD.	ALTERNATE FRAME HEAD AND JAMB	ALUTECH/913 INVESTMENTS, LLC. 18 GA. (0.048" MIN.) Fy=28.9 KSI MIN.
4	-	ALUM. 6063-T6	AS REQD.	SNAP-ON DOOR STOP	ALUTECH/913 INVESTMENTS, LLC.
5	-	ALUM. 6063-T6	4 PER LEAF	TOP AND BOTTOM RAIL	ALUTECH/913 INVESTMENTS, LLC.
6	-	ALUM. 6063-T6	AS REQD.	HINGE AND LOCK STILE	ALUTECH/913 INVESTMENTS, LLC.
7	-	ALUM. 6063-T6	AS REQD.	TOP AND BOTTOM CAPS	ALUTECH/913 INVESTMENTS, LLC. W/ (4) #8 X 1/2" SMS PER PANEL
8	-	ALUM. 6063-T6	AS REQD.	1-1/4" X 7-3/4" X 1/4" HINGE REINFORCING PLATE	ALUTECH/913 INVESTMENTS, LLC.
9	-	ALUM. 6063-T6	AS REQD.	LOCK REINFORCING PLATE	ALUTECH/913 INVESTMENTS, LLC.
10	-	STAINLESS STEEL	3 PER LEAF	4-1/2" X 4-1/2" X 0.134" THICK S.S. BUTT HINGE	ALUTECH/913 INVESTMENTS, LLC.
11	DR1700	STEEL	AS REQD.	1" THRESHOLD	ALUTECH/913 INVESTMENTS, LLC.
12	177-T	STEEL	AS REQD.	PEMKO 177-T THRESHOLD	PEMKO
13	-	ALUMINUM	AS REQD.	DOOR BOTTOM SWEEP	VARIES
14	-	ALUMINUM	AS REQD.	PERIMETER GASKET	VARIES
15	-	EXPANDED POLYSTYRENE	AS REQD.	POLYSTYRENE CORE INSIDE DOOR PANEL	DYPLAST PRODUCTS, LLC.
16	-	ISOCYANURATE	AS REQD.	ISOCYANURATE FOAM CORE INSIDE DOOR PANEL	DYPLAST PRODUCTS, LLC.
17	-	CADMIUM / STEEL	AS REQD.	3/8" CADMIUM PLATED STEEL RODS, TOP AND BOTTOM OF DOOR PANEL	ALUTECH/913 INVESTMENTS, LLC.
18	-	RUBBER	AS REQD.	WEATHERSTRIP SANTOPRENE BULB	VARIES
19	116	POLYURETHANE	AS REQD.	CONTINUOUS VULKEM 116 SEALANT (BOTH SIDES)	VULKEM
20	-	HARDBOARD	AS REQD.	1/8" TEMPERED HARDBOARD	VARIES
21	-	ALUM. 6063-T6	AS REQD.	FLAT COVER FOR ALTERNATE FRAME HEAD AND JAMB	WELLS ALUMINUM CORP.
22	-	ALUM. 6063-T6	AS REQD.	SHIM PLATE HOLDER	WELLS ALUMINUM CORP.
23	-	ALUM. 6063-T5	AS REQD.	FLAT REINF. PLATE ATTACHED W/ (2) #10-24 X 1/2" S.S.PFH MS	VARIES
24	-	ALUM. 6063-T5	AS REQD.	1-1/4" X 8" X 1/4" FLAT HINGE REINF. PLATE	VARIES
25	-	ALUM. 6063-T5	AS REQD.	FLAT REINF. STRIKER PLATE 1-1/4" X 8-1/8" X 1/4"	VARIES



REVISIONS

NO.	DATE	DESCRIPTION
A	4/28/14	UPDATE TO 2014 FBC
B	11/07/18	UPDATE TO 2017 FBC
C	07/29/21	UPDATE TO 2020 FBC

MCY

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FLORIDA APPROVAL

FL#17651

DATE	07-29-2021
SCALE	AS NOTED
DRAWN	james
PROJECT	MCY 15-017

DRAWING NO.
AD15-09

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