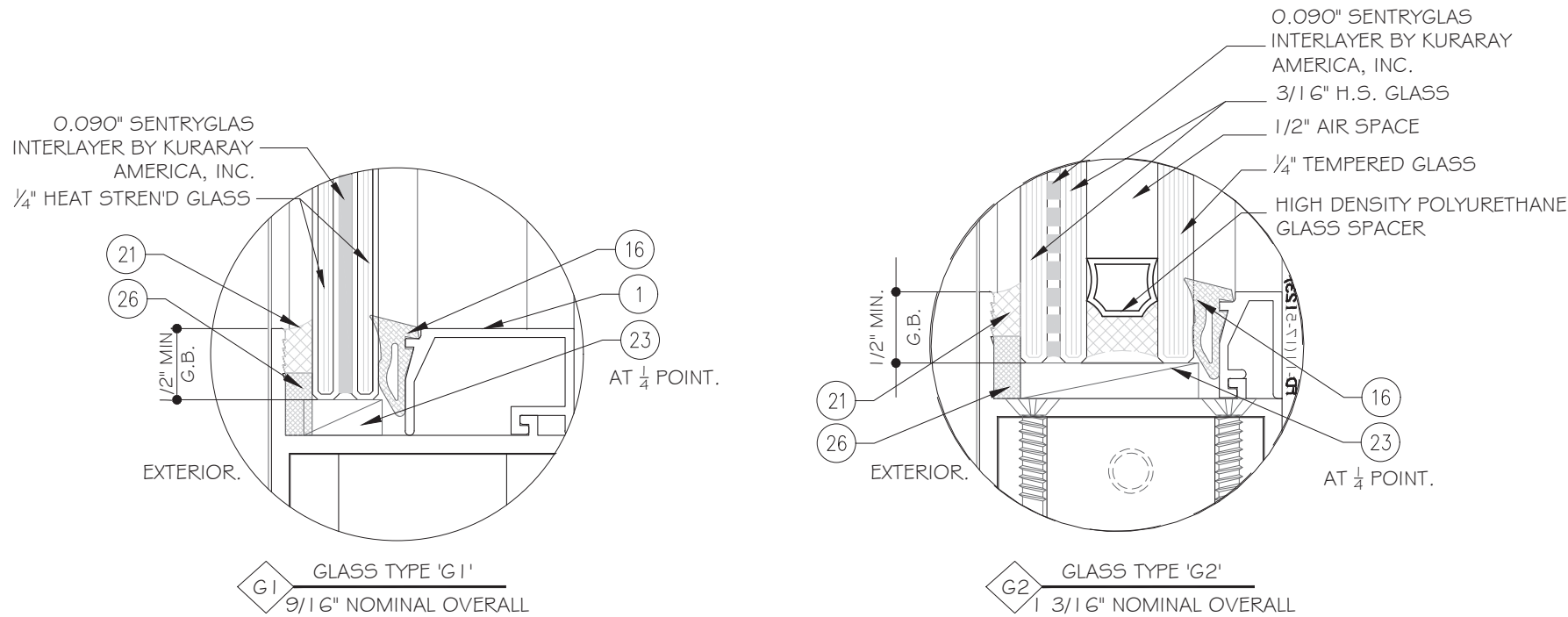


HR6-OD OUTSWING STOREFRONT SYSTEM
LARGE AND SMALL MISSILE IMPACT (LMI & SMI)



GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FBC (2023) /9TH EDITION FBC (2026) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOOR APPROVED FOR WATER INFILTRATION WITH THRESHOLD TYPE USED, SEE DETAIL OPTION ON SHEET D I .
- DOOR IS DESIGNED TO BE USED AT LARGE MISSILE AREA. SHUTTER IS NOT REQUIRED.
- I BY OR 2BY WOOD BUCK BY OTHERS. WOOD BUCKS TO BE ANCHORED PROPERLY TO TRANSFER THE LOADS FROM GLAZING SYSTEM TO BUILDING 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.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION FBC (2023) /9TH EDITION FBC (2026) SECTION AS APPLICABLE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 35, OR EQUIVALENT CORROSION RESISTANCE).
- CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

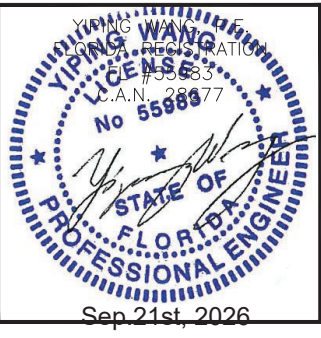
NOTE:
GLASS COMPLIES WITH ASTM E1300-16
OR 24 (3 SEC. GUSTS)

INSTRUCTIONS:
USE CHARTS AS FOLLOWS.

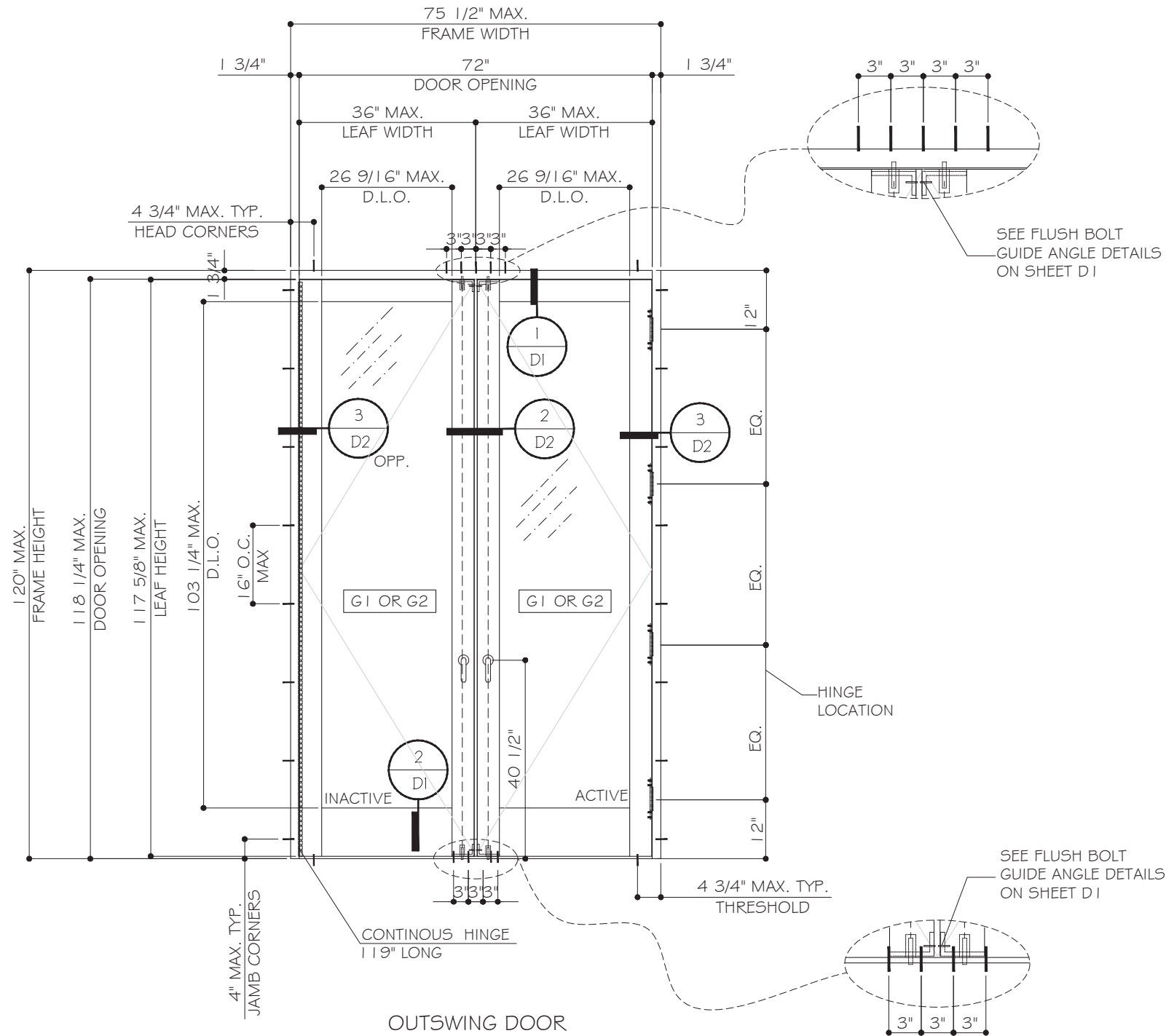
- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE TYPICAL ELEVATION ON SHEET E I FOR MAXIMUM SIZES AND DESIGN LOADS .
- STEP 3: SEE ANCHOR TYPE ON SHEET A I . SEE SHEET E I FOR ANCHOR SPACING.

ABBREVIATIONS AND SYMBOLS	
D.L.O. - DAYLITE OPENING	CL - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	SECTION NUMBER
W/ - WITH	
W/O - WITHOUT	
VERT.- VERTICAL	
G.B. - GLASS BITE	SHEET NUMBER

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

FL #30781.1	
	

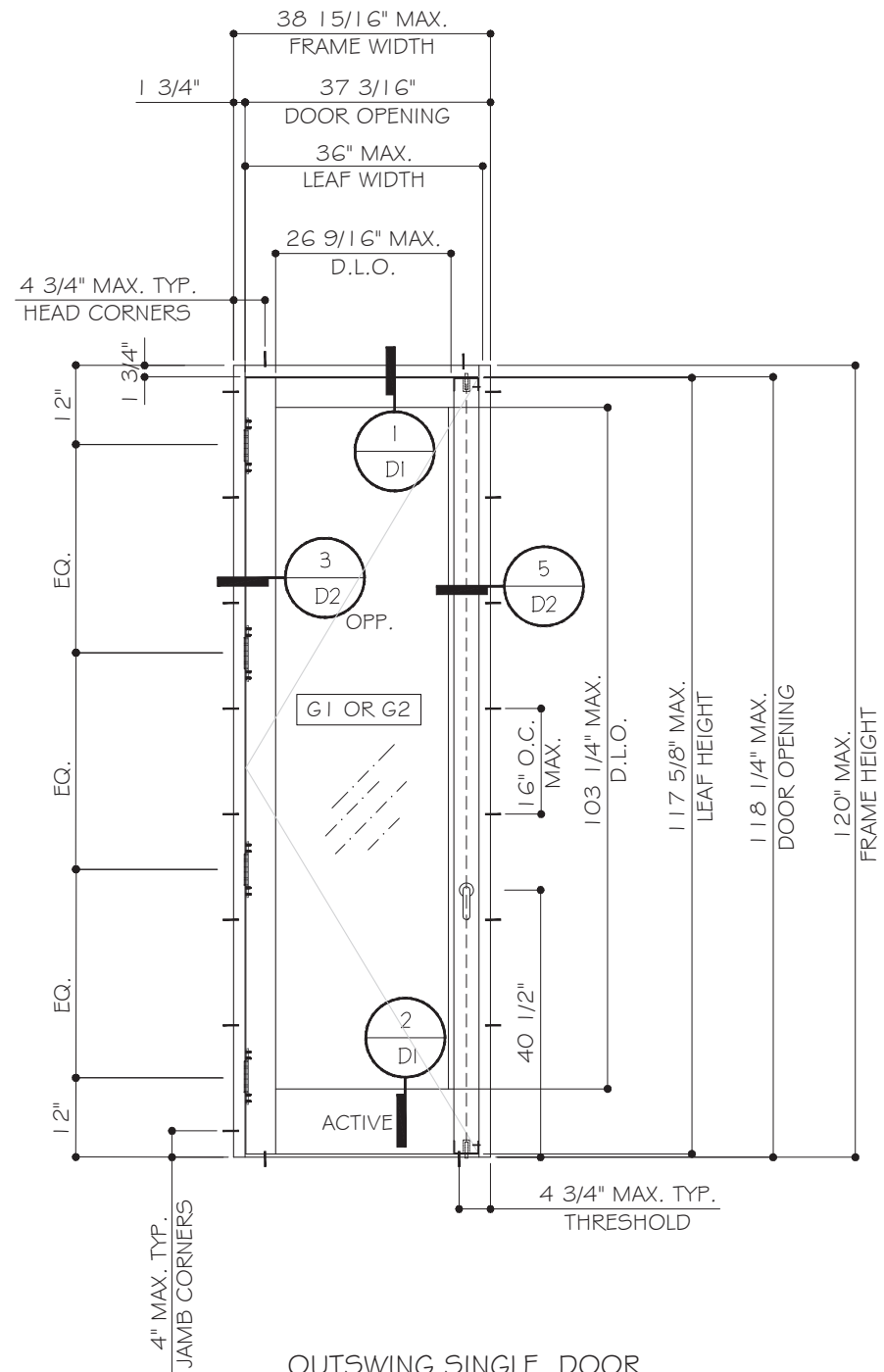
MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY #301 MIRAMAR, FL 33027 P: 305.588.5224 www.MCYEngineering.com MCY@mcycyengineering.com	
HR6-OD OUTSWING STOREFRONT SYSTEM (LMI & SMI)	
CUHADAROGLU METAL SAN.PAZ.A.S YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU ISTANBUL, TURKIYE 34524 TEL. +90 212 224 2020 FAX. +90 212 224 2040	
Drawn Date 09.20.2026	Scale AS SHOWN
Rev. No.	Description
R4	UPDATE FBC 2026
R3	UPDATE FBC 2023
AD19-24	
COVER	
Sheet No. 1 OF 11	



OUTSWING DOOR
EXTERIOR ELEVATION
LOCK OPTION #1 OR #3

MAX. DESIGN LOAD
FOR SIZES SHOWN ABOVE OR SMALLER
AS PERMITTED BY FBC

+ 80PSF
- 80 PSF



OUTSWING SINGLE DOOR
EXTERIOR ELEVATION
LOCK OPTION #1

FL #30781.1

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HR6-OD OUTSWING STOREFRONT SYSTEM (LMI & SMI)

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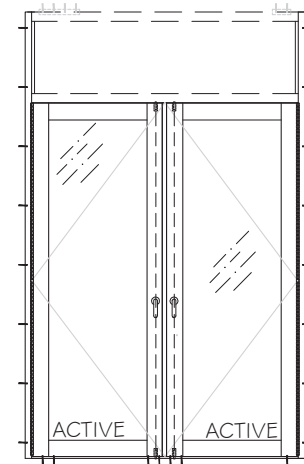
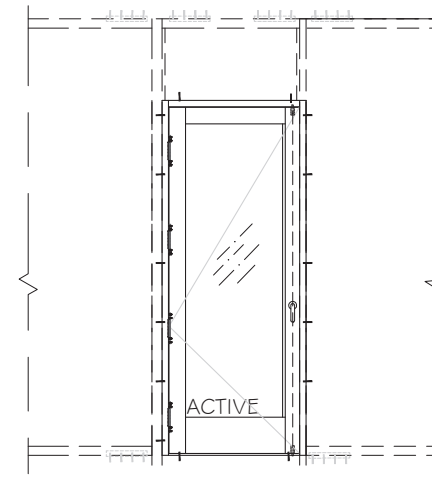
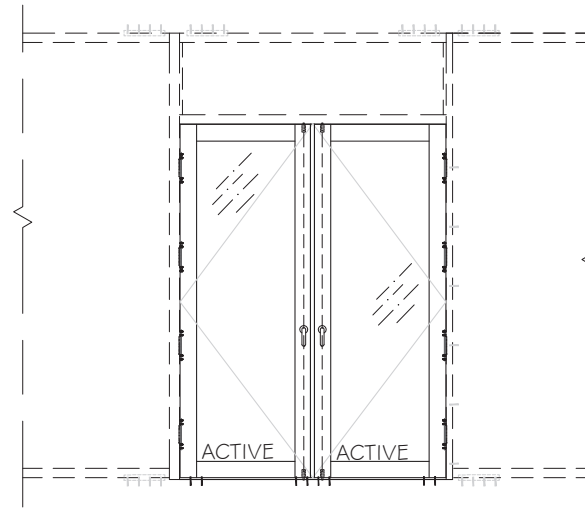
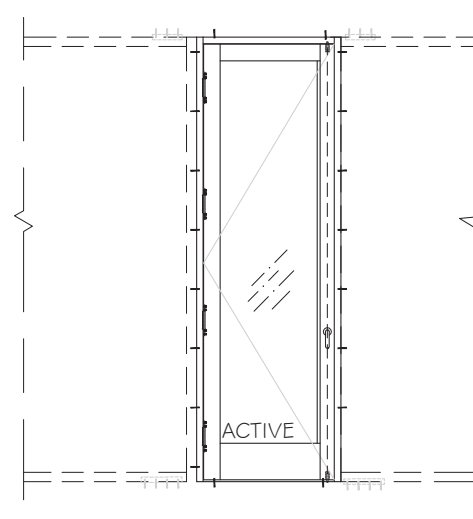
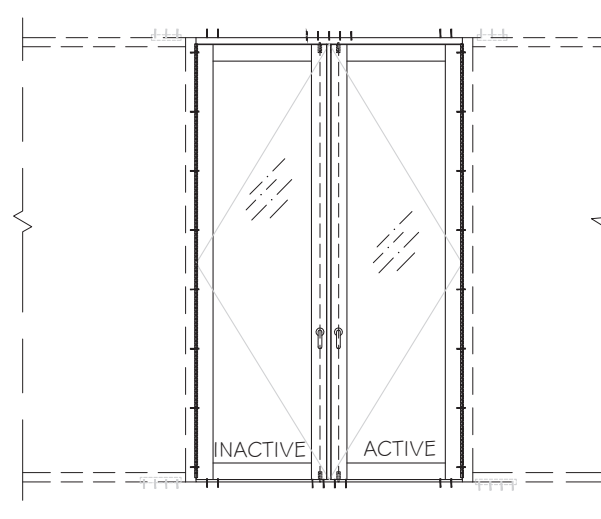
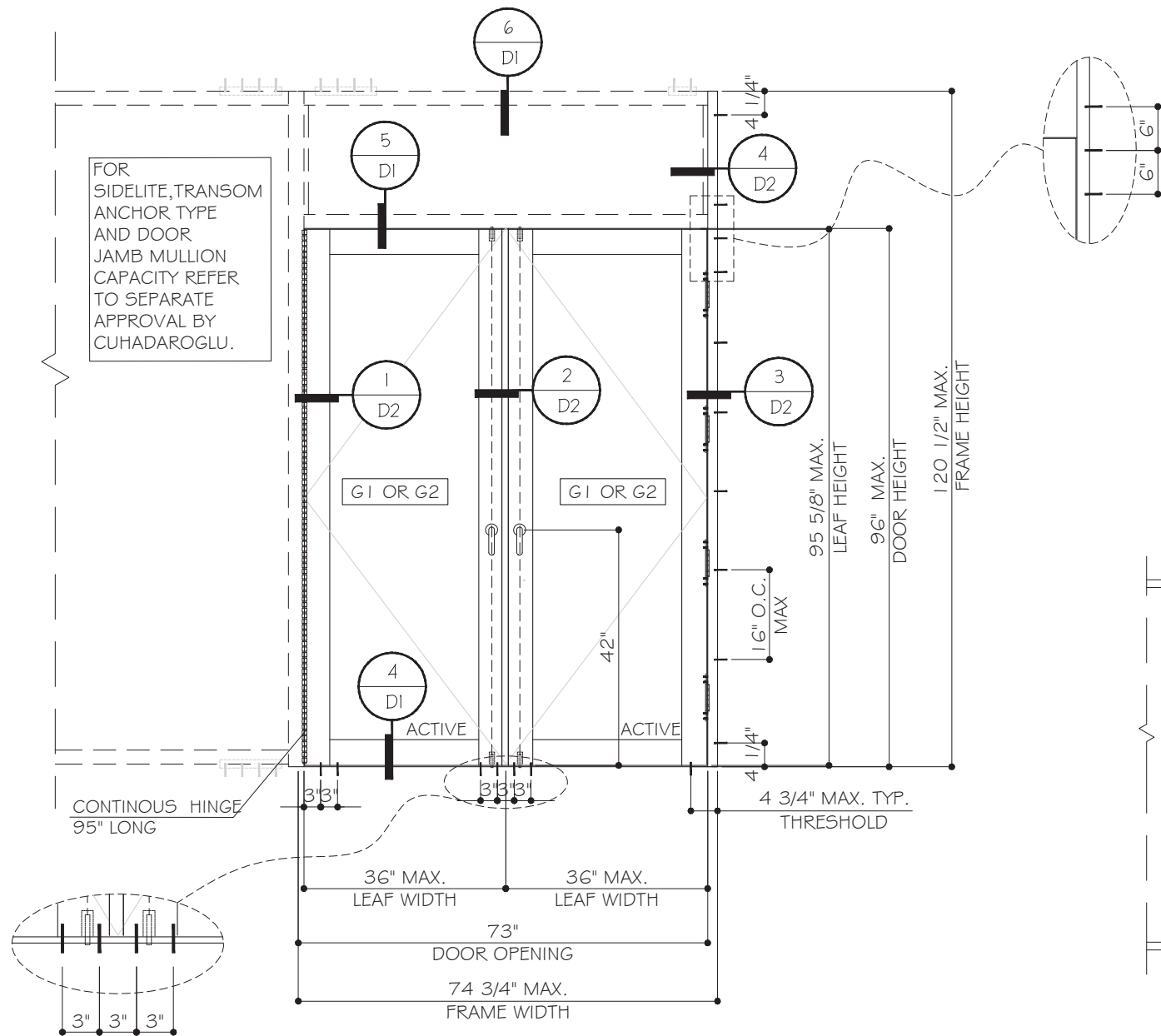
Drawn Date
09.20.2026

Scale
AS SHOWN

DRAWING NO.
AD19-24

Sheet No.
2 OF 11

E1

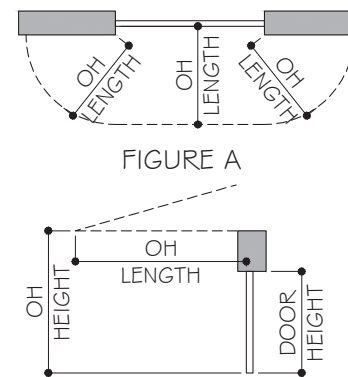


OUTSWING DOOR
OPTIONS

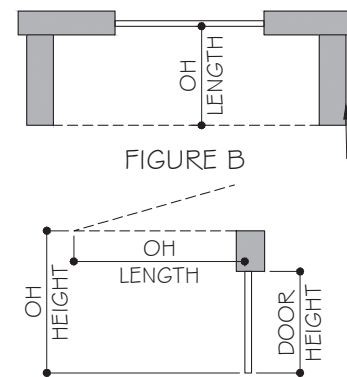
OUTSWING DOOR

WITH OR W/O TRANSOM
& WINDOW WALL (UNDER SEPARATE APPROVAL)
EXTERIOR ELEVATION
LOCK OPTION #1 OR #2 OR #3

MAX. DESIGN LOAD FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+ 65 PSF
- 65 PSF



$$OH \text{ RATIO} = \frac{OH \text{ LENGTH}}{OH \text{ HEIGHT}} \geq 1$$



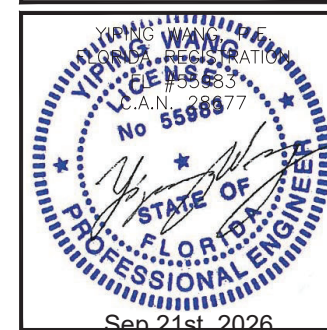
$$OH \text{ RATIO} = \frac{OH \text{ LENGTH}}{OH \text{ HEIGHT}} \geq 1$$

FULL-HEIGHT
SIDE WALL (TYP.)

NOTE #1:
DOORS ASSEMBLIES LABELED WITH A LIMITED WATER RATING AS SPECIFIED IN AAMA/WDMA/CSA 101/I.S./A440 SHALL BE PERMITTED TO BE INSTALLED AT LOCATIONS PROTECTED BY AN OVERHANG, AND THE OH RATIO ABOVE IS EQUAL OR GREATER THAN 1. THERE ARE NO WATER PENETRATION REQUIREMENTS FOR THE DOOR INSTALLED IN NONHABITABLE AREAS.

OH LENGTH:
THE HORIZONTAL
MEASURE OF HOW
FAR AN OVERHANG
OVER A DOOR
PROJECTS OUT FROM
DOOR SURFACE AS
SHOWN IN FIGURE A.
WHERE THE
OVERHANG EXTENDS
TO SIDE WALLS ON
BOTH SIDES OF THE
DOOR THAT HAVE A
HEIGHT EQUAL TO THE
OVERHANG HEIGHT,
THE OH LENGTH IS AS
SHOWN IN FIGURE B.

FL #30781.1



HR6-OD OUTSWING STOREFRONT SYSTEM (LMI & SMI)

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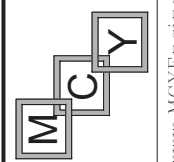
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MIRAMAR, FL 33027

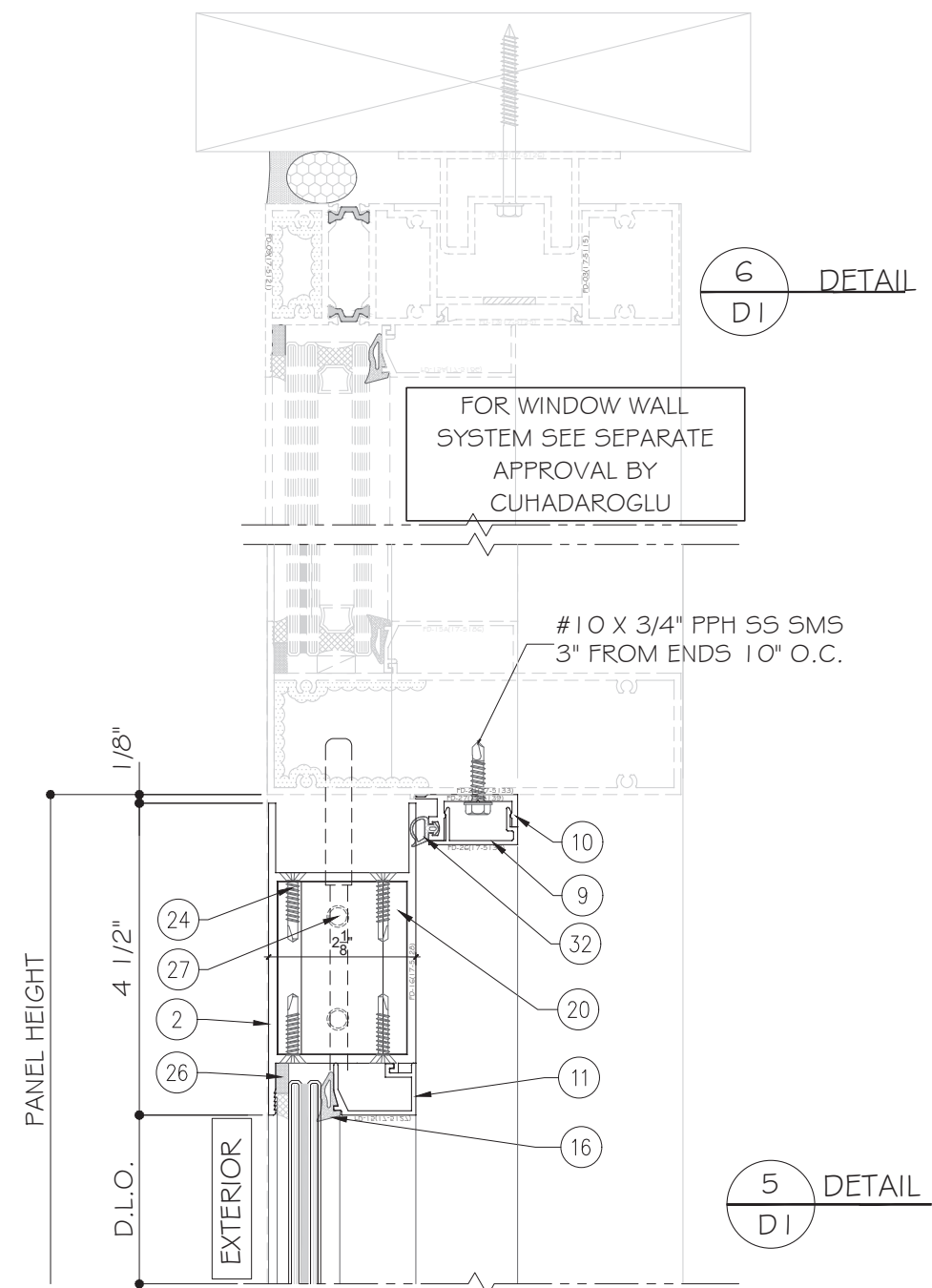
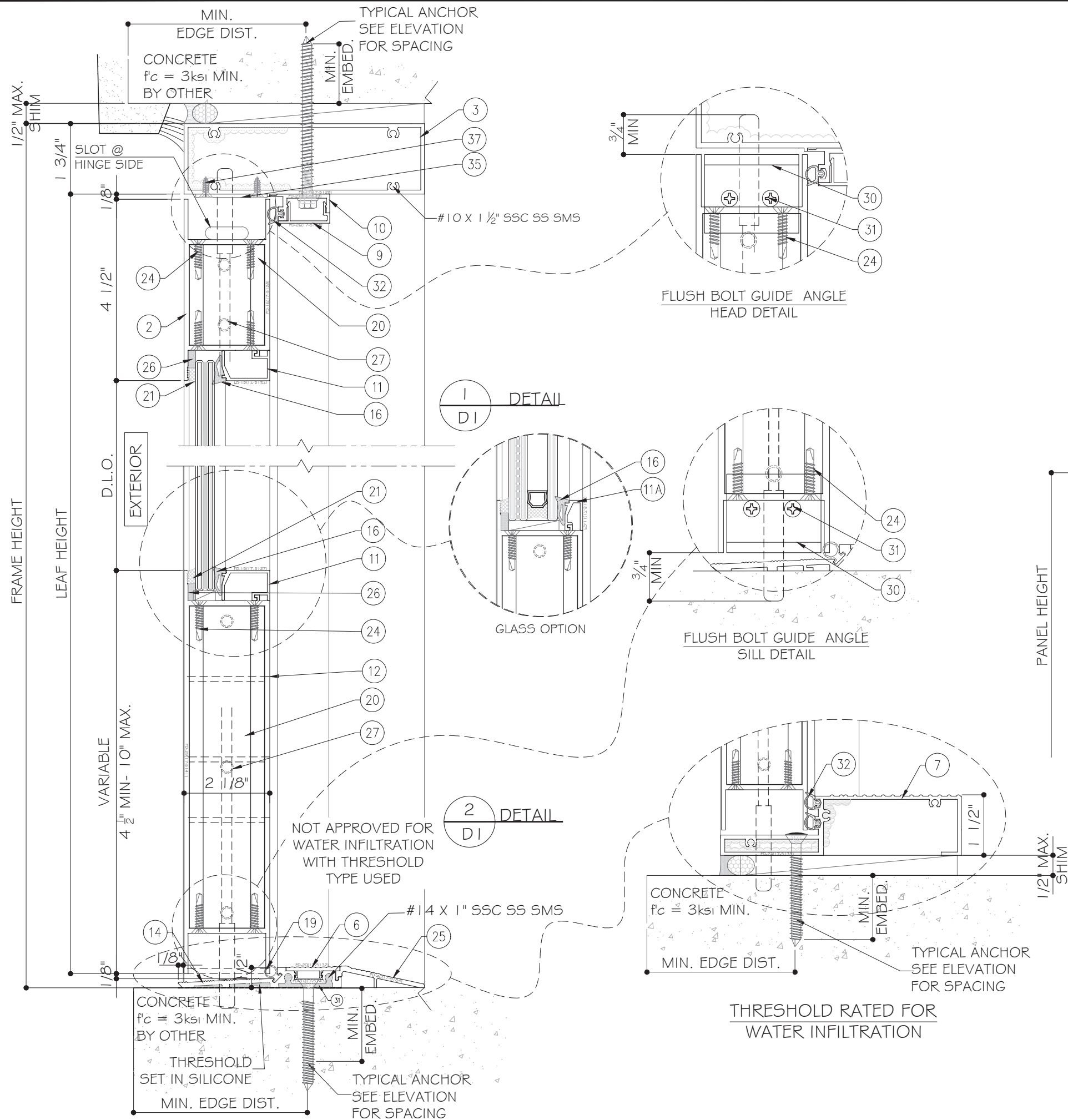
P: 305.588.5224



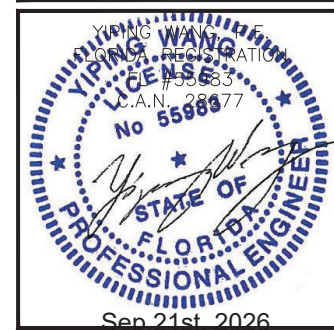
www.MCYEngineering.com

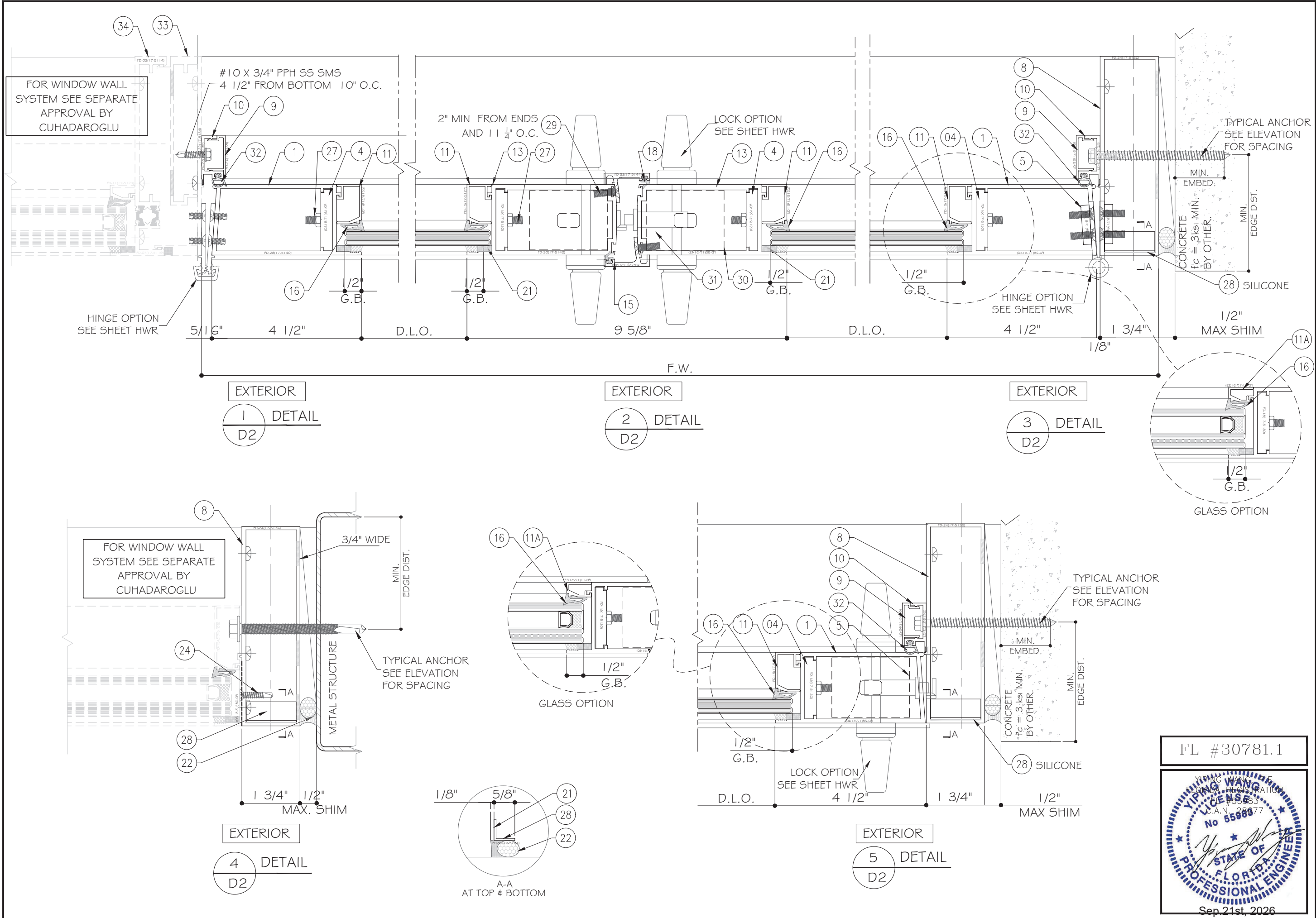
MCY@mcycengineering.com

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Drawing No. AD19-24			
Sheet No. 3 OF 11			

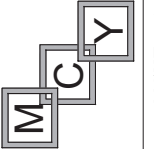


ALL CORNERS, SEAMS AND
ASTRAGAL ATTACHMENTS WERE
SEALED WITH DOW CORNING 795
SILICONE BUILDING SEALANT AND
/OR TREMCO SPECTREM 2 SEALANT.





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HR6-OD OUTSWING STOREFRONT SYSTEM (LMI & SMI)

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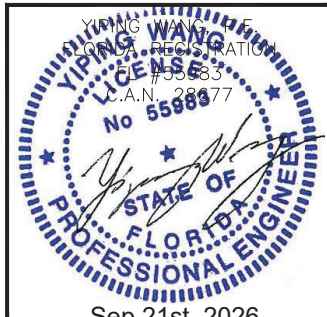
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AS SHOWN

DRAWING NO.
AD19-24

SHEET NO.
5 OF 11

FL #30781.1



TYPICAL ANCHOR: SEE ELEVATION FOR SPACING

AT HEAD
TYPE 'A'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1 1/2" MIN. PENETRATION INTO WOOD

THRU 1 BY BUCKS INTO CONCRETE
1 3/4" MIN. EMBED INTO CONCRETE

TYPE 'B'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1 3/4" MIN. EMBED

TYPE 'C'- 5/16" DIA. TEKS - SELF DRILLING SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI)
INTO APPORVED MULLIONS OR INTO METAL STRUCTURE
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy=36 KSI MIN.)

AT SILL
TYPE 'B'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1 3/4" MIN. EMBED

AT JAMB
TYPE 'A'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1 1/2" MIN. PENETRATION INTO WOOD

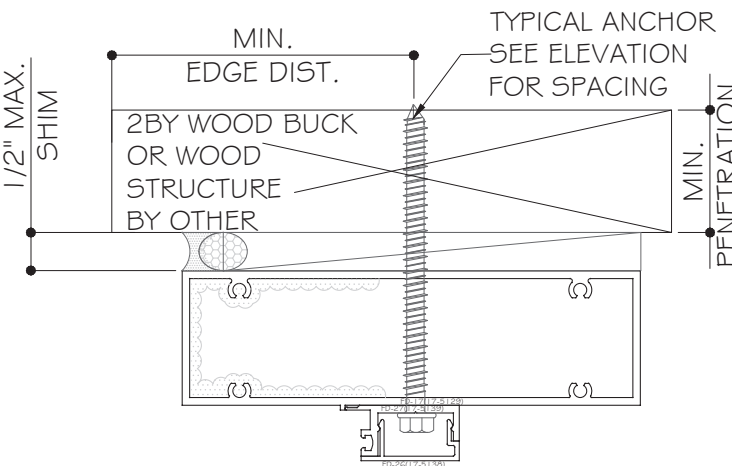
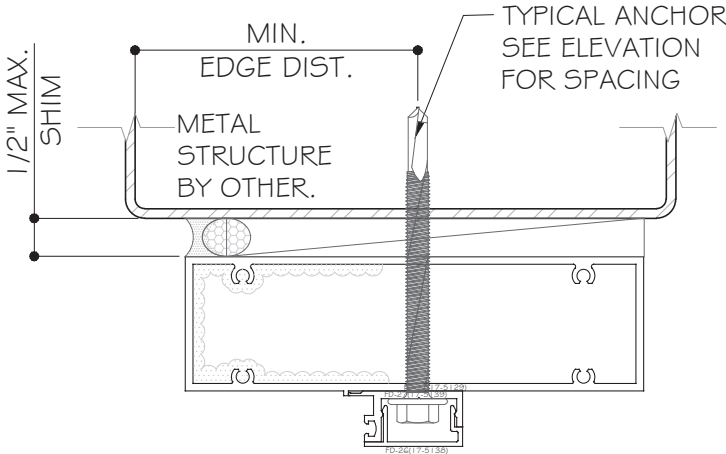
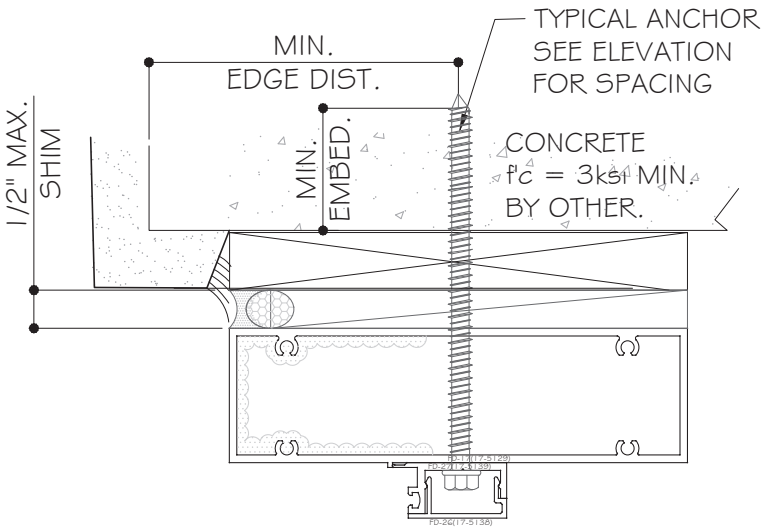
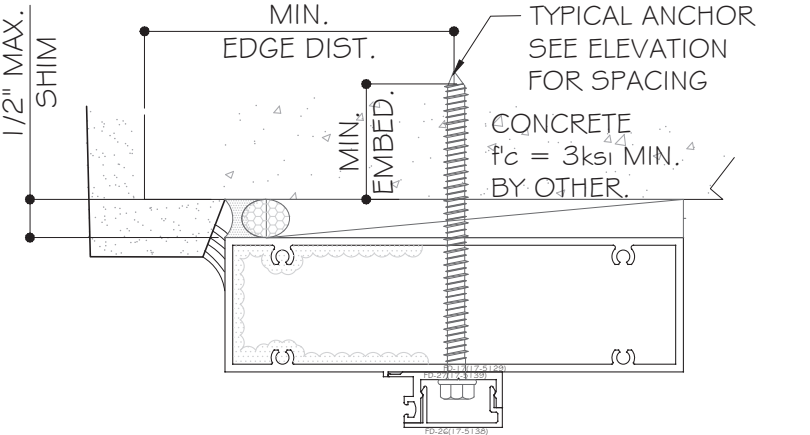
THRU 1 BY BUCKS INTO CONCRETE OR BLOCK
1 3/4" MIN. EMBED INTO CONCRETE OR GROUT FILLED BLOCK
1 1/4" MIN. EMBED INTO CONCRETE OR HOLLOW BLOCK

TYPE 'B'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1 3/4" MIN. EMBED

TYPE 'C'- 5/16" DIA. TEKS - SELF DRILLING SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI)
INTO APPORVED MULLIONS OR INTO METAL STRUCTURE
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy=36 KSI MIN.)

ANCHOR EDGED DISTANCE:
INTO CONCRETE & MASONRY= 2 1/2" MIN.
INTO WOOD STRUCTURE = 1 1/2" MIN.
INTO METAL = 1"

CONCRETE AT HEAD , SILL OR JAMB fc'=3000 PSI MIN. UNLESS SPECIFIED
C-90 HOLLOW /FILLED BLOCK AT JAMB fm'=2000 PSI MIN.
WOOD SG=0.55 MIN.



NOTE: WOOD STRUCTURES /METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

FL #30781.1

YIPING WANG
REGISTRATION
No 55988
C.E.N. 28477
09/20/2026
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Sep 21st, 2026

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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HR6-OD OUTSWING STOREFRONT SYSTEM (LMI & SMI)

CUHADAROGU METAL SAN.PAZ.A.S
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AD19-24

A1

6 OF 11

LOCK OPTIONS

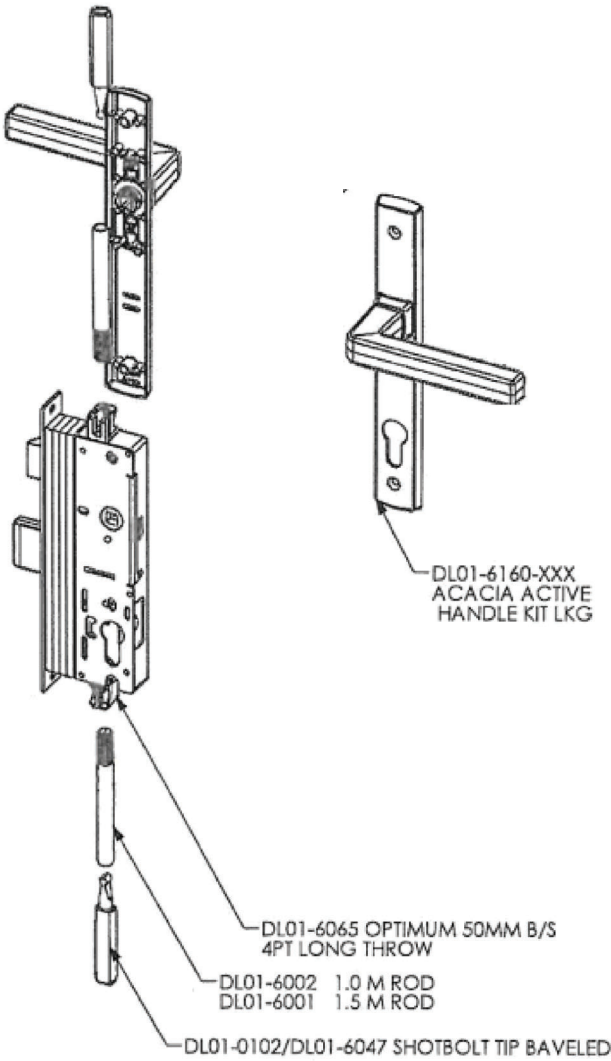
OPTION 1:
DESIGN LOAD ≤ 80 psf
MAX. PANEL SIZE: 36" X 120"

ACTIVE PANEL: 3 POINT LEVER COMPRESION LOCK (D I 01-7548) OPTIMUM / TBL
FRENCH APP BY "INTERLOCK ASSA ABLOY"

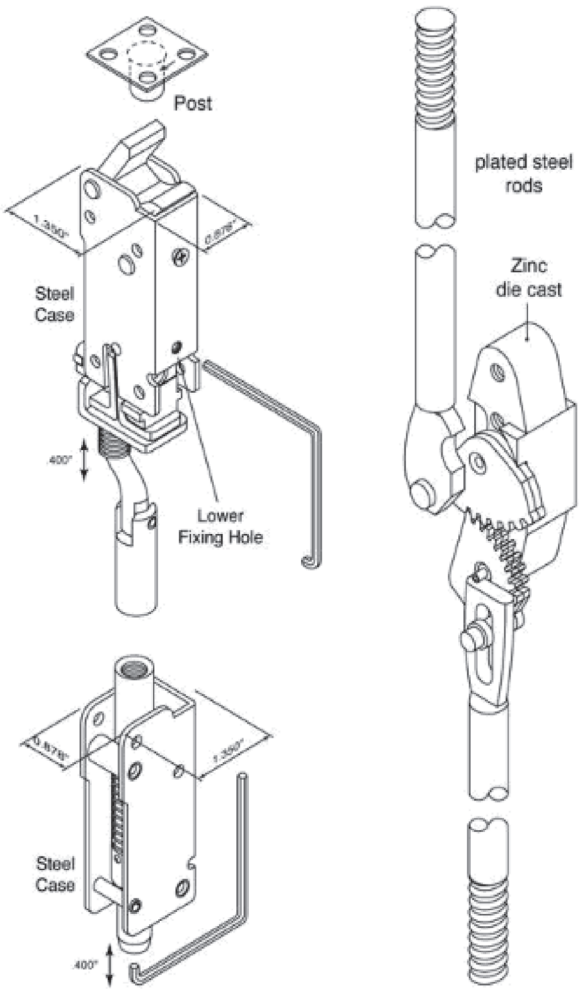
INACTIVE PANEL: (2) POINT LOCK LEVER COMPRESION LOCK (D I 01-7548) OPTIMUM /
TBL FRENCH APP BY "INTERLOCK ASSA ABLOY"

OPTION 2:
DESIGN LOAD ≤ 65 psf
MAX. PANEL SIZE: 36" X 96"

SERIE 5770 PANIC BAR / CONCEALED DEVICE ROD HARDWARE
DEVICE BY REGENT W/ TURN KEY LOCK (PART No. SA 11677) AT EXTERIOR AND
INTERNAL OPERATOR.
CAN NOT APPLY TO SINGLE PANEL DOOR



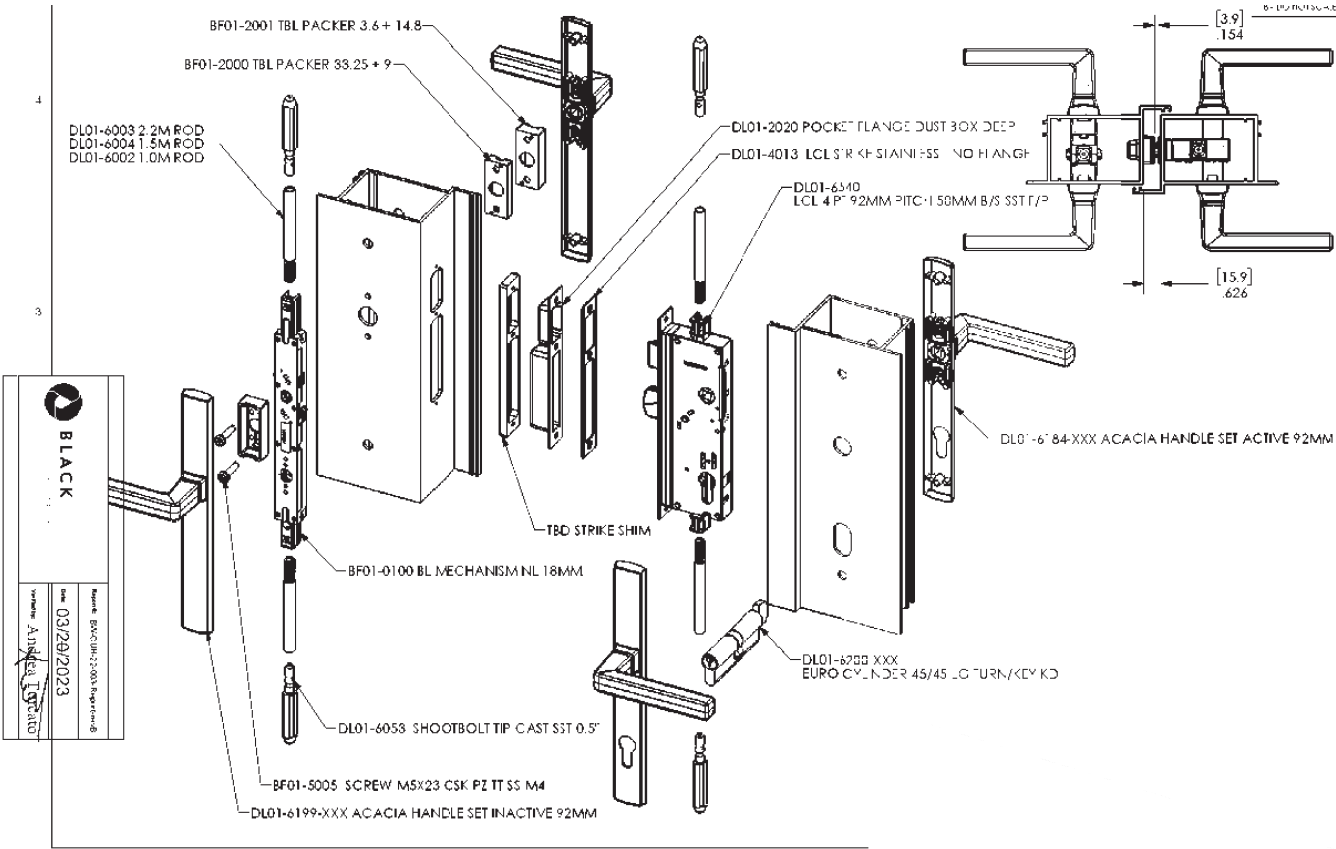
LEVEL COMPRESSION LOCK



SERIE 5770 PANIC BAR/ CONCEALED

OPTION 3:
DESIGN LOAD ≤ 80 psf.
MAX. PANEL SIZE: 36" X 120"

ASSA ABLOY INTERLOCK (LCL 4PT 92MM) IS INSTALLED AT 39-1/2"
(1003.3MM) FROM THE BOTTOM.



FL #30781.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55983
C.A.N. 28477

Sep 21st, 2026

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www.MCYEngineering.com MCY@mcycengineering.com

HRG-OD OUTSWING STOREFRONT SYSTEM (LMI & SMI)

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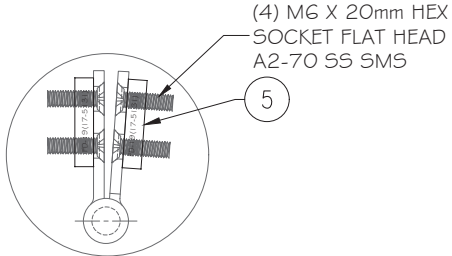
Sheet No.
7 OF 11

HINGES OPTION:

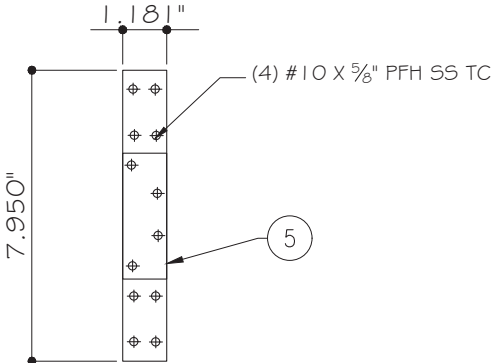
OPTION 1:

DESIGN LOAD $\leq 80 \text{ psf}$

(4) 4" X 4 1/2" STAINLESS STEEL BALL BEARING SQUARE HINGES
(PART 4001) PER PANEL BY 'REGENT',
BAKING PLATE (PART No 4102) USED INSIDE PANEL HINGE STILE
AND FRAME JAMB HINGE LOCATION. ATTACHED W/ (4) #10 X 5/8"
PFH SS TC TYPE F SCREW



HINGE OPTION
REGENT 400 I

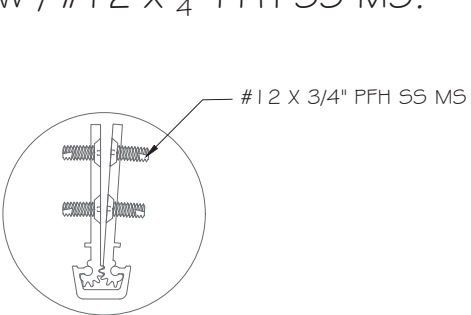


BACKING PLATES 4102

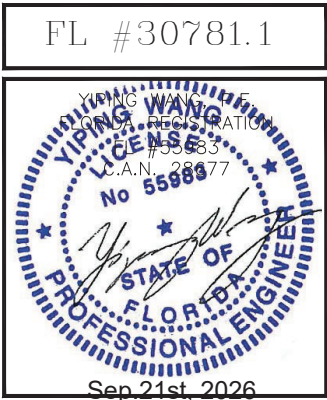
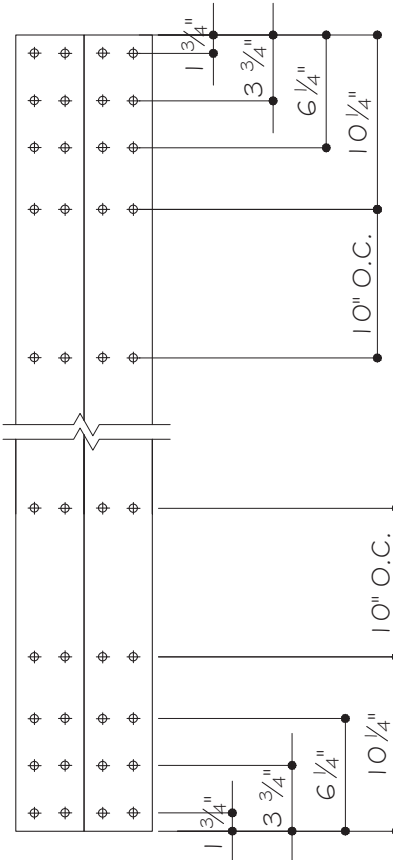
OPTION 2:

DESIGN LOAD $\leq 80 \text{ psf}$

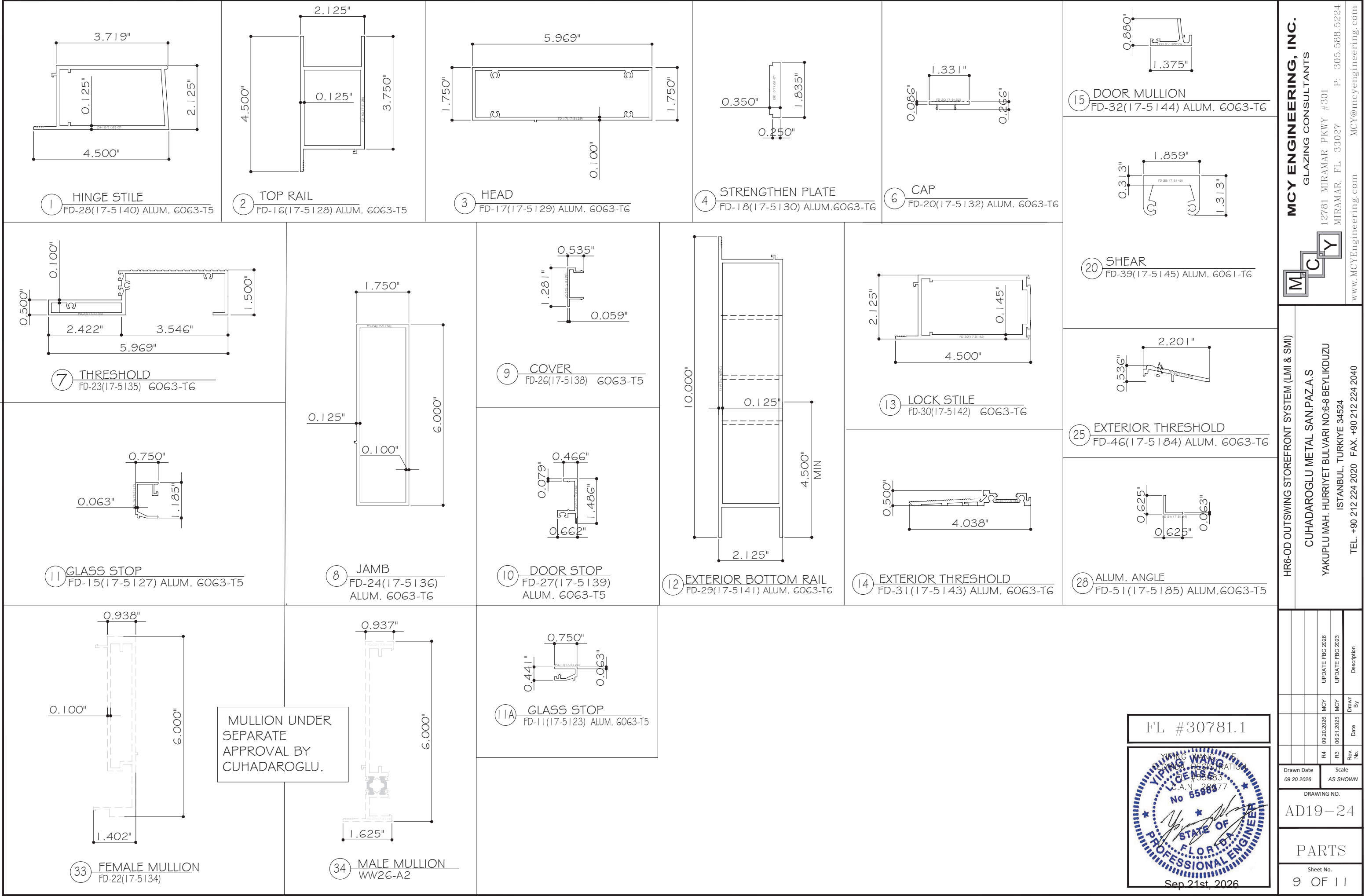
FULL MORTISE CONTINUOUS GEARED HINGE (780-226-HD-95 BY
'HANGER' CONECTED TO JAMB OR HINGE STILE
W / # 1 2 X $\frac{3}{4}$ " PFH SS MS.



HINGE OPTION 2
HAGER 750-134/750-138



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DRAWING NO.					
AD19-24					
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Sheet No.					
8 OF 11					



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY #301

MIRAMAR, FL 33027

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HR6-OD OUTSWING STOREFRONT SYSTEM (LMI & SMI)

CUHADAROGLU METAL SAN.PAZ.A.S

YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU

ISTANBUL, TURKIYE 34524

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Rev. No.	Date	Drawn By	Description
R4	09.20.2026	MCY	UPDATE FBC 2026
R3	06.21.2025	MCY	UPDATE FBC 2023

Drawn Date

09.20.2026

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PARTS

Sheet No.

9 OF 11

FL #30781.1

YIPING WANG

REGISTERED PROFESSIONAL ENGINEER

No 55988

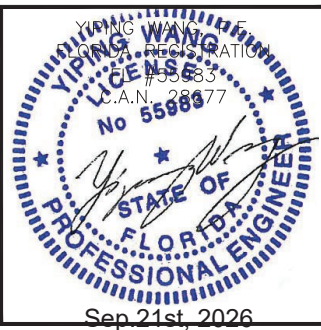
STATE OF FLORIDA

Sep 21st, 2026

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	FD-28(17-5140)	HINGE STILE	ALUM. 6063-T5	CUHADAROGLU
2	FD-16(17-5128)	TOP RAIL	ALUM. 6063-T5	CUHADAROGLU
3	FD-17(17-5129)	HEADER	ALUM. 6063-T6	CUHADAROGLU
4	FD-18(17-5130)	STRENGTHEN PLATE	ALUM. 6063-T6	CUHADAROGLU
5	FD-19(17-5131)	1/4" THK. ALUM. PLATE	ALUM. 6063-T6	CUHADAROGLU
6	FD-20(17-5132)	CAP	ALUM. 6063-T6	CUHADAROGLU
7	FD-23(17-5135)	THRESHOLD	ALUM. 6063-T6	CUHADAROGLU
8	FD-24(17-5136)	JAMB	ALUM. 6063-T6	CUHADAROGLU
9	FD-26(17-5138)	COVER	ALUM. 6063-T5	CUHADAROGLU
10	FD-27(17-5139)	DOOR STOP	ALUM. 6063-T5	CUHADAROGLU
11	FD-15(17-5127)	LAMINATED GLASS STOP	ALUM. 6063-T5	CUHADAROGLU
11A	FD-11(17-5123)	INSULATED GLASS STOP	ALUM. 6063-T5	CUHADAROGLU
12	FD-29(17-5141)	EXTERIOR BOTTOM RAIL	ALUM. 6063-T6	CUHADAROGLU
13	FD-30(17-5142)	LOCK STILE	ALUM. 6063-T6	CUHADAROGLU
14	FD-31(17-5143)	EXTERIOR THRESHOLD	ALUM. 6063-T6	CUHADAROGLU
15	FD-32(17-5144)	DOOR MULLION	ALUM. 6063-T6	CUHADAROGLU
16	WW26-34	GLAZING GASKET/SPACER	SILICONE OR EPDM (70 DURO. SHORE A)	TREMCO / TR-1126
17	NOT USED			
18	FR26-36	EPDM FINGER GASKET	EPDM (65 DURO. SHORE A)	TREMCO / TR-10809
19	FR26-38	EPDM BULB VINYL GASKET	EPDM (65 DURO. SHORE A)	TREMCO / TR-15110
20	FD-39(17-5145)	SHEAR CHANNEL	ALUM. 6061-T6	-
21	-	STRUCTURAL SEALANT DC983 OR DC795 / PROGLAZE or SPECTREM 2 (TREMCO)	SILICONE	DOW CORNING / TREMCO
22	-	DC790 SILICONE & BACKER ROD / SPECTREM 1 (TREMCO)	SILICONE	DOW CORNING / TREMCO
23	-	SETTING BLOCK	EPDM (85 DURO. SHORE A)	TREMCO
24	-	#14 F.H. S.S. SMS.	STAINLESS STEEL	-
25	FD-46(17-5184)	EXTERIOR THRESHOLD	ALUM. 6063-T6	DOW CORNING / TREMCO
26	-	GLASS SPACER, SGT-921 1/4" THK.	HIGH DENSITY POLYURETHANE TAPE	-
27	-	3/16" BOLT & NUT	STAINLESS STEEL	-
28	FD-51(17-5185)	ALUM. ANGLE	ALUM. 6063-T5	-
29	-	#10 X 5/8 PFH. SS SMS	STAINLESS STEEL	-
30	-	FLUSH BOLT GUIDE ANGLE	CAST ALUMINUM	-
31	-	#8 X 7/8" PFH SS SMS	STAINLESS STEEL	-
32	TR-17453P	GASKET	EPDM (65 DURO. SHORE A)	TREMCO
33	FD-22(17-5134)	FEMALE MULLION	ALUM. 6063-T6	CUHADAROGLU / UNDER SEPARATE APPROVAL
34	WW26-A2	MALE MULLION	ALUM. 6063-T6	CUHADAROGLU / UNDER SEPARATE APPROVAL
35		STEEL PLATE	STAINLESS STEEL	-
36		FOAM BAR	TAPE FOAM	-
37		5/32" F.H. SCREW	STAINLESS STEEL	-

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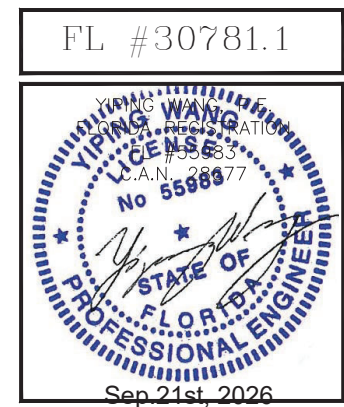
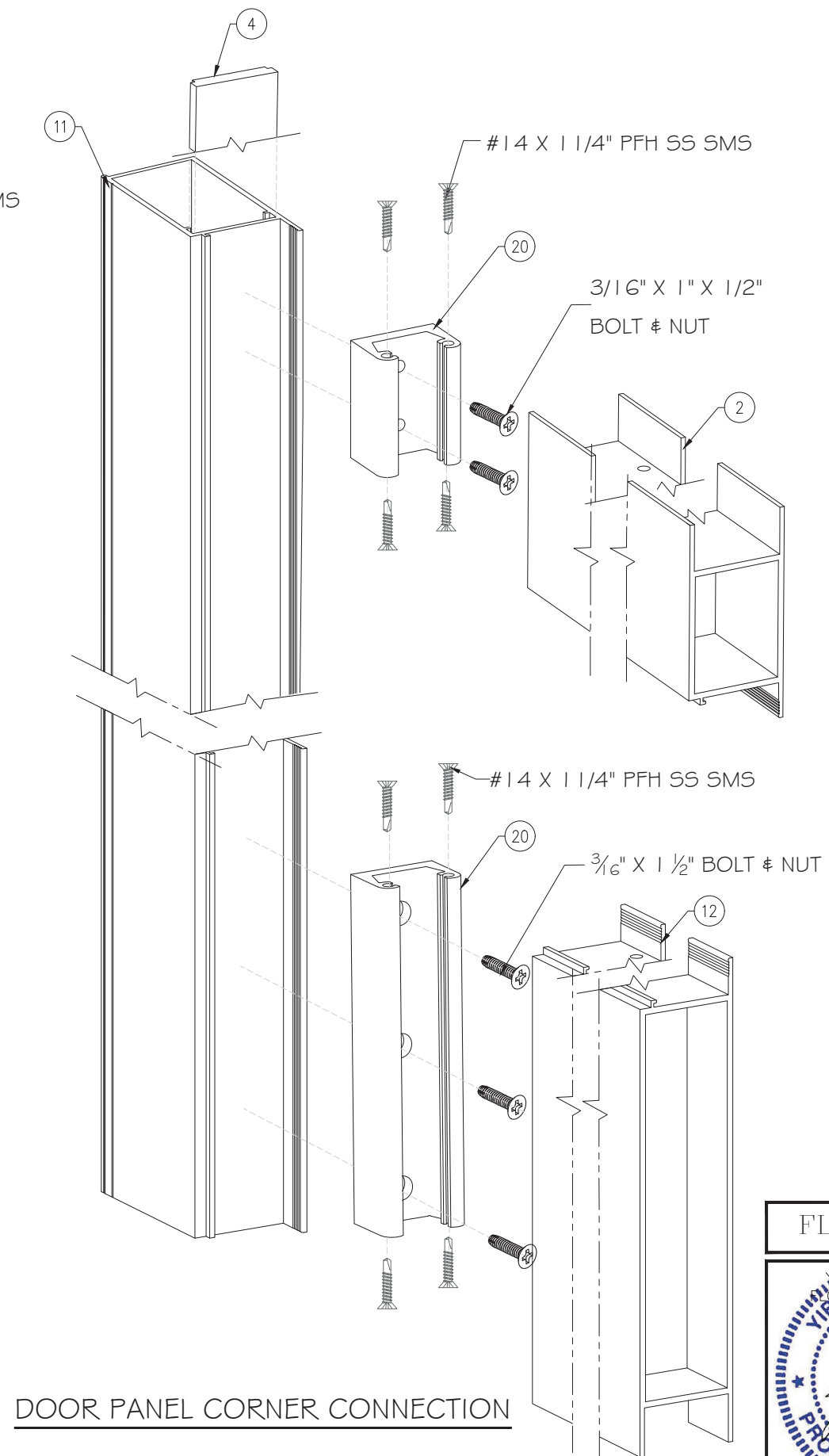
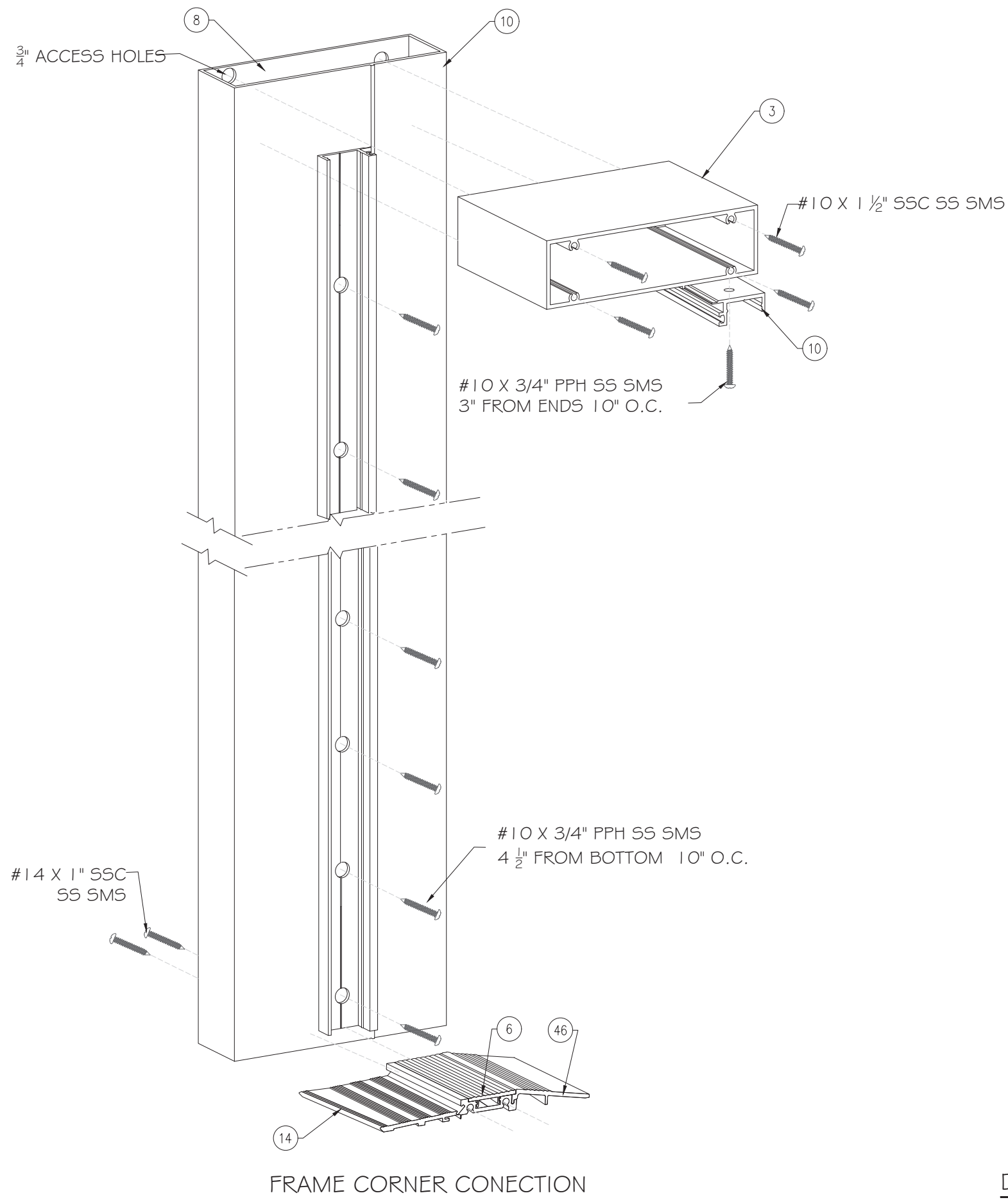
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10 OF 11



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Sheet No. 11 OF 11