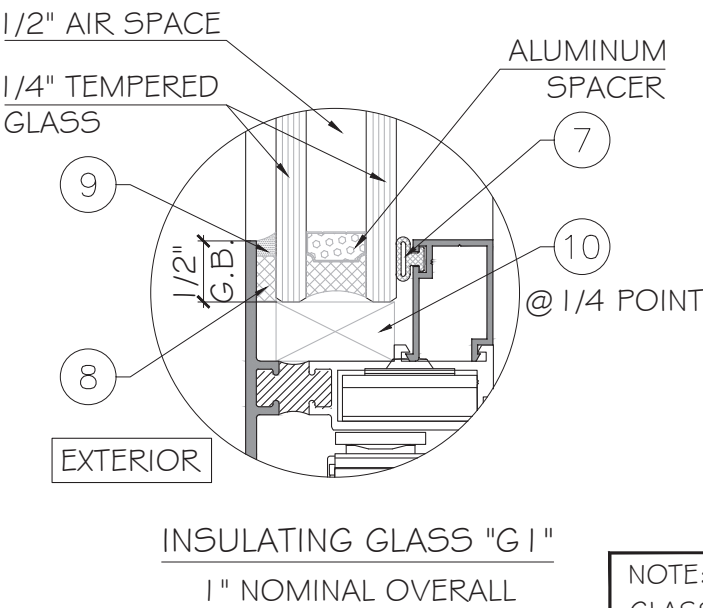


C.T. WINDOWS LLC
SERIES 400 THERMAL CASEMENT WINDOW - NON IMPACT

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FBC 2023 / 9TH EDITION OF FBC 2026 EXCLUDING HIGH VELOCITY HURRICANE ZONE (NON-HVHZ).
- WINDOWS ARE RATED FOR NON IMPACT. IF USED IN HVHZ, SHUTTERS WILL BE REQUIRED.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- 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 OF FBC 2023 / 9TH EDITION OF FBC 2026 SECTION AS APPLICABLE.
- 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.
- 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.
- ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.
- 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.
- 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 3S, 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).



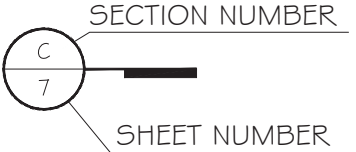
NOTE:
GLASS COMPLIES WITH ASTM E1300-16
OR 24 (3 SEC. GUSTS).

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 OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 & E2 FOR APPROVED TYPICAL ELEVATION.
- STEP 3: ANCHOR OPTION SEE SHEET D1. ANCHOR LAYOUT SEE SHEET E1 & E2.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

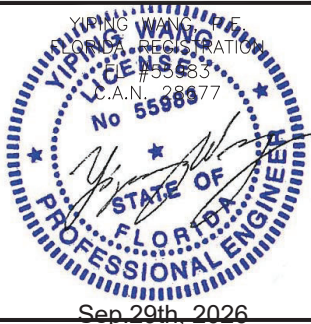
G.B. - GLASS BITE
D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



- 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.

FLORIDA APPROVAL:

FL 40701.1



SERIES 400 THERMAL CASEMENT WINDOW NON IMPACT

CT WINDOWS LLC
9195 BOGGY CREEK RD SUITE #1
ORLANDO, FL 32824
TEL: 407 857 9237 EMAIL: INFO@AATCTW.NET

MCY ENGINEERING, INC.
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mcy@mcyengineering.com

Rev. No.	Date	Drawn By	Description
R3	09/29/2026	JAMES	UPDATE FBC 2026
R2	11/16/2023	JAMES	UPDATE FBC 2023
Drawn Date: 09/29/2026 Scale:			
DRAWING NO. AD21-59			
COVER			
Sheet No. 1 OF 10			

WINDOW HEIGHT	TRIB. WIDTH	ALLOWABLE LOAD-PSF	
INCH	INCH	EXT(+)	INT(-)
36.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
	42.0	60.0	60.0
	48.0	60.0	60.0
42.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
	42.0	60.0	60.0
	48.0	60.0	60.0
48.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
	42.0	60.0	60.0
54.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
60.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
66.0	24.0	60.0	60.0
	30.0	50.7	50.7
72.0	24.0	46.9	46.9
	30.0	38.5	38.5
78.0	24.0	36.7	36.7
84.0	24.0	29.2	29.2

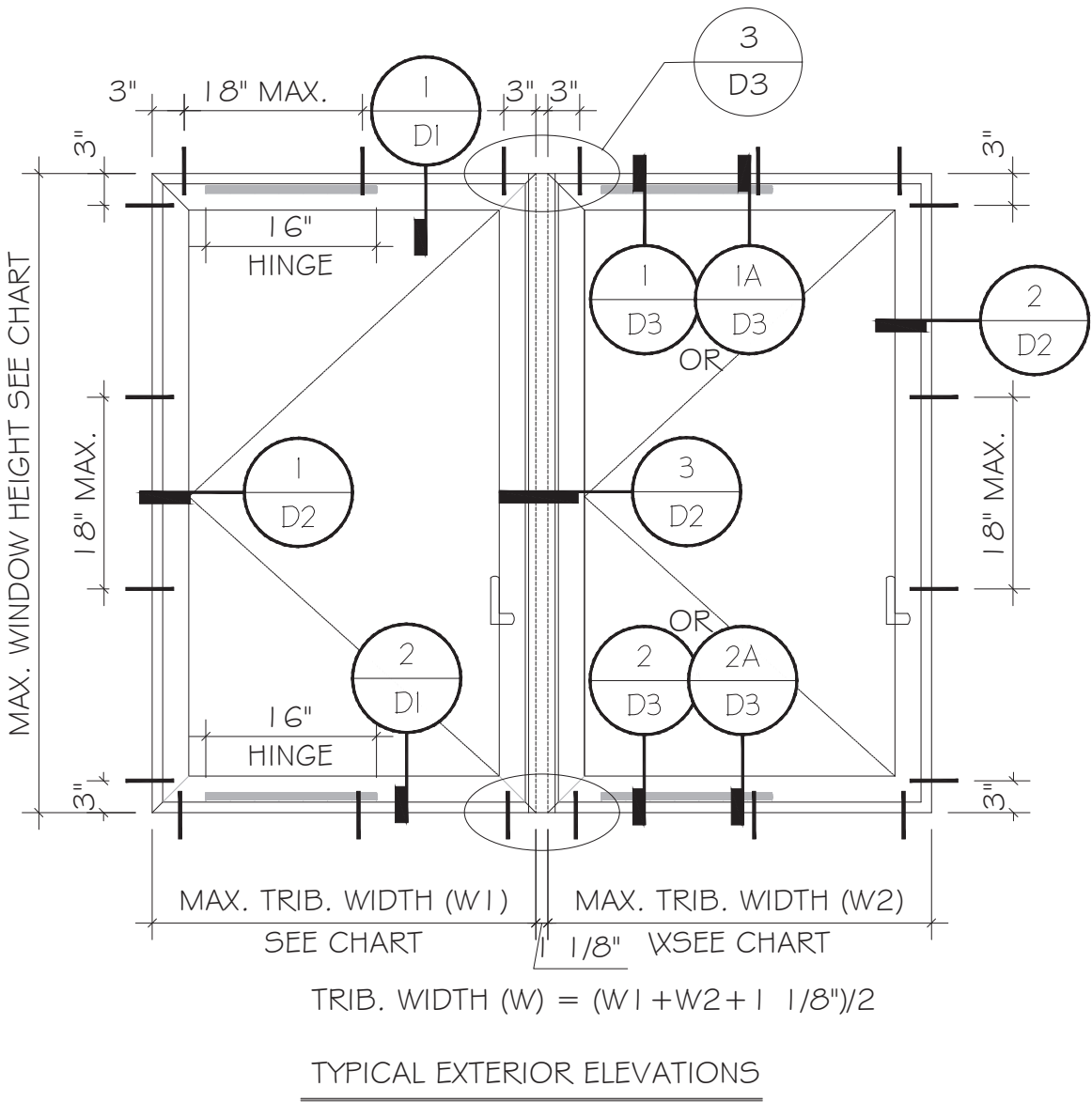
NOTE:
D.L.O. HEIGHT = WINDOW HEIGHT - 6.86"
D.L.O. WIDTH = WINDOW WIDTH - 6.86"



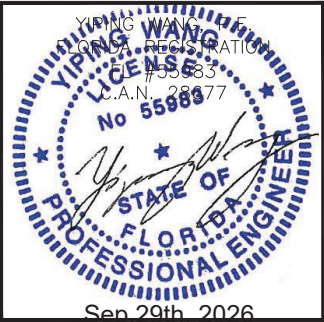
 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY, STE. 301 MIRAMAR, FL 33027 P: 305.588.5224 www.MCYEngineering.com mcy@mcyengineering.com		SERIES 400 THERMAL CASEMENT WINDOW NON IMPACT	
		CT WINDOWS LLC 9195 BOGGY CREEK RD SUITE #1 ORLANDO, FL 32824 TEL: 407 857 9237 EMAIL: INFO@AATCTW.NET	
Drawn Date 09.29.2026	Scale	R3 09.29.2026 JAMES R2 11.16.2023 JAMES	UPDATE FBC 2026 UPDATE FBC 2023
DRAWING NO. AD21-59		Rev. No. Date Drawn By Description	
E1			
Sheet No. 2 OF 10			

MULLION CAPACITY LOAD - PSF			
WINDOW HEIGHT	TRIB. WIDTH	ALLOWABLE LOAD-PSF	
INCH	INCH	EXT(+)	INT(-)
36.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
	42.0	60.0	60.0
	48.0	60.0	60.0
42.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
	42.0	60.0	60.0
	48.0	60.0	60.0
48.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
	42.0	60.0	60.0
	48.0	60.0	60.0
54.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
60.0	24.0	60.0	60.0
	30.0	60.0	60.0
	36.0	60.0	60.0
66.0	24.0	60.0	60.0
	30.0	50.7	50.7
72.0	24.0	46.9	46.9
	30.0	38.5	38.5
78.0	24.0	36.7	36.7
84.0	24.0	29.2	29.2

NOTE:
D.L.O. HEIGHT = WINDOW HEIGHT - 6.86"
D.L.O. WIDTH = WINDOW WIDTH - 6.86"



FLORIDA APPROVAL:
FL 40701.1



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

M

C

Y

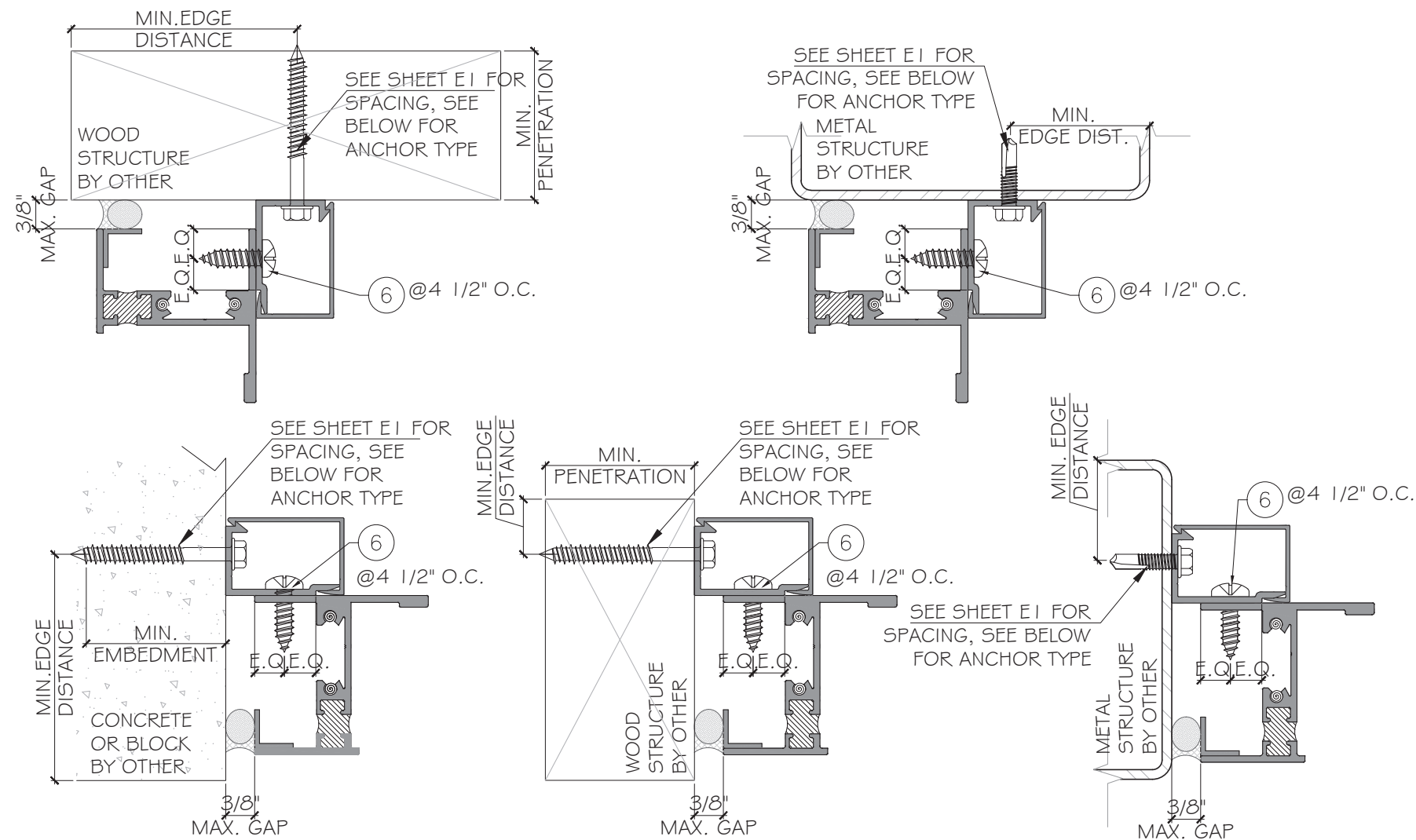
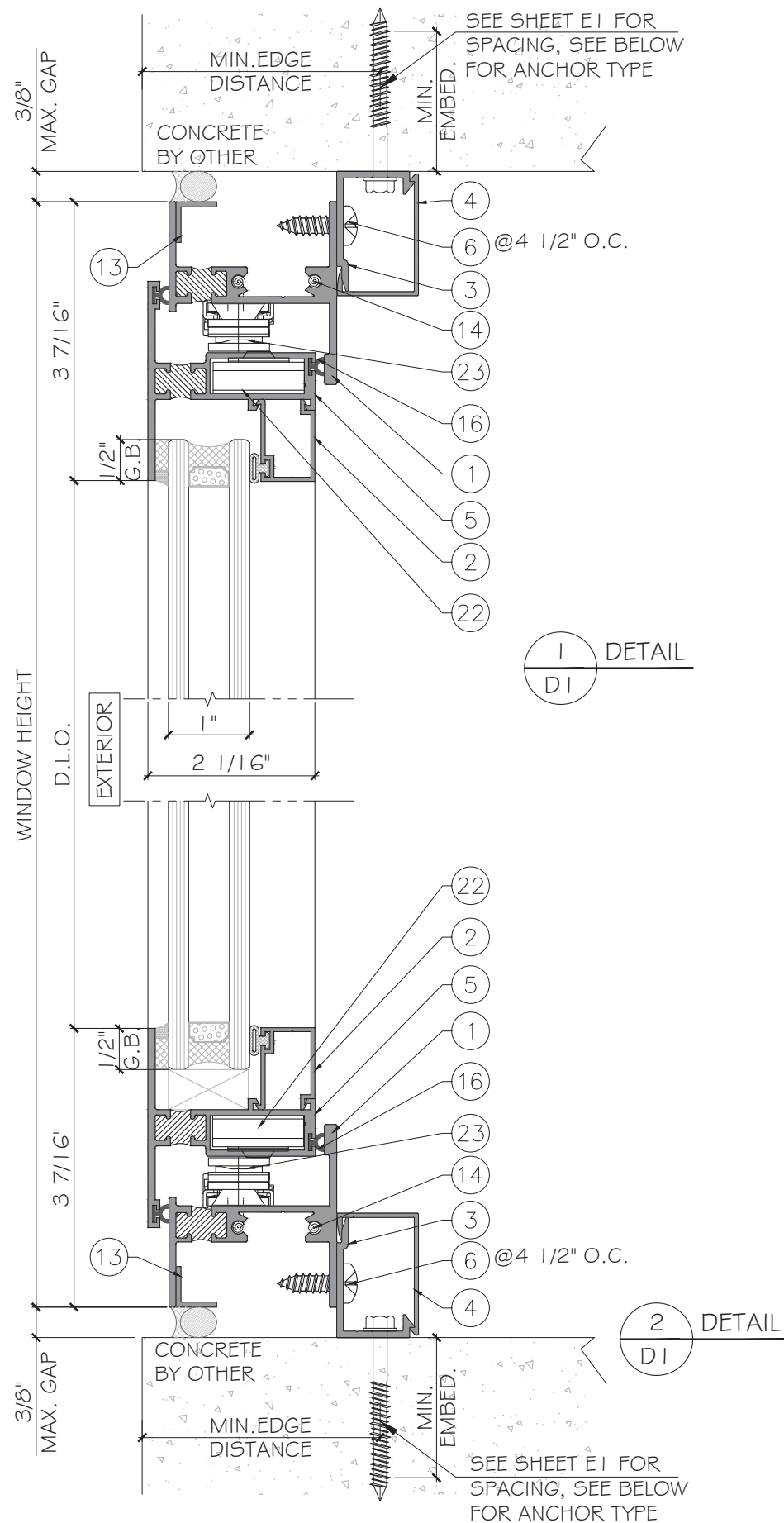
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ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)

ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON BY 'DEWALT' ($F_u = 164\text{KSI}$, $F_y = 148\text{KSI}$) INTO 2BY WOOD BUCKS ($SG=0.55$) WITH 1 1/2" MIN. PENETRATION INTO WOOD

ANCHOR TYPE 'B' - 1/4" DIA. ULTRACON BY 'DEWALT' ($F_u = 164\text{KSI}$, $F_y = 148\text{KSI}$) DIRECTLY INTO CONCRETE ($F'_c = 3\text{KSI MIN.}$)
 1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMBS)
 1 1/4" MIN. EMBED INTO HOLLOW BLOCK (JAMB ONLY)
 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK (JAMB ONLY)

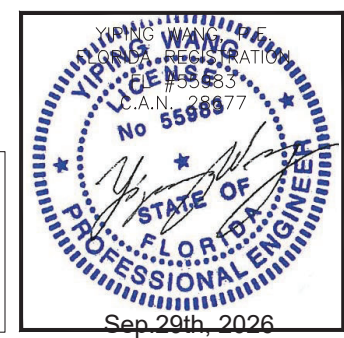
ANCHOR TYPE 'C' - 1/4" DIA. S.S SMS ($F_u = 100\text{ KSI}$, $F_y = 65\text{ KSI}$) OR 1/4" TEKS (GRADE 5) ($F_u = 120\text{KSI}$, $F_y = 92\text{KSI}$) INTO FBC APPROVED MULLIONS (ALUM.6063-T5 MIN. 1/8" THK. MIN.) OR INTO METAL STRUCTURES, STEEL: 16 GA MIN. (A36 MIN.) (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

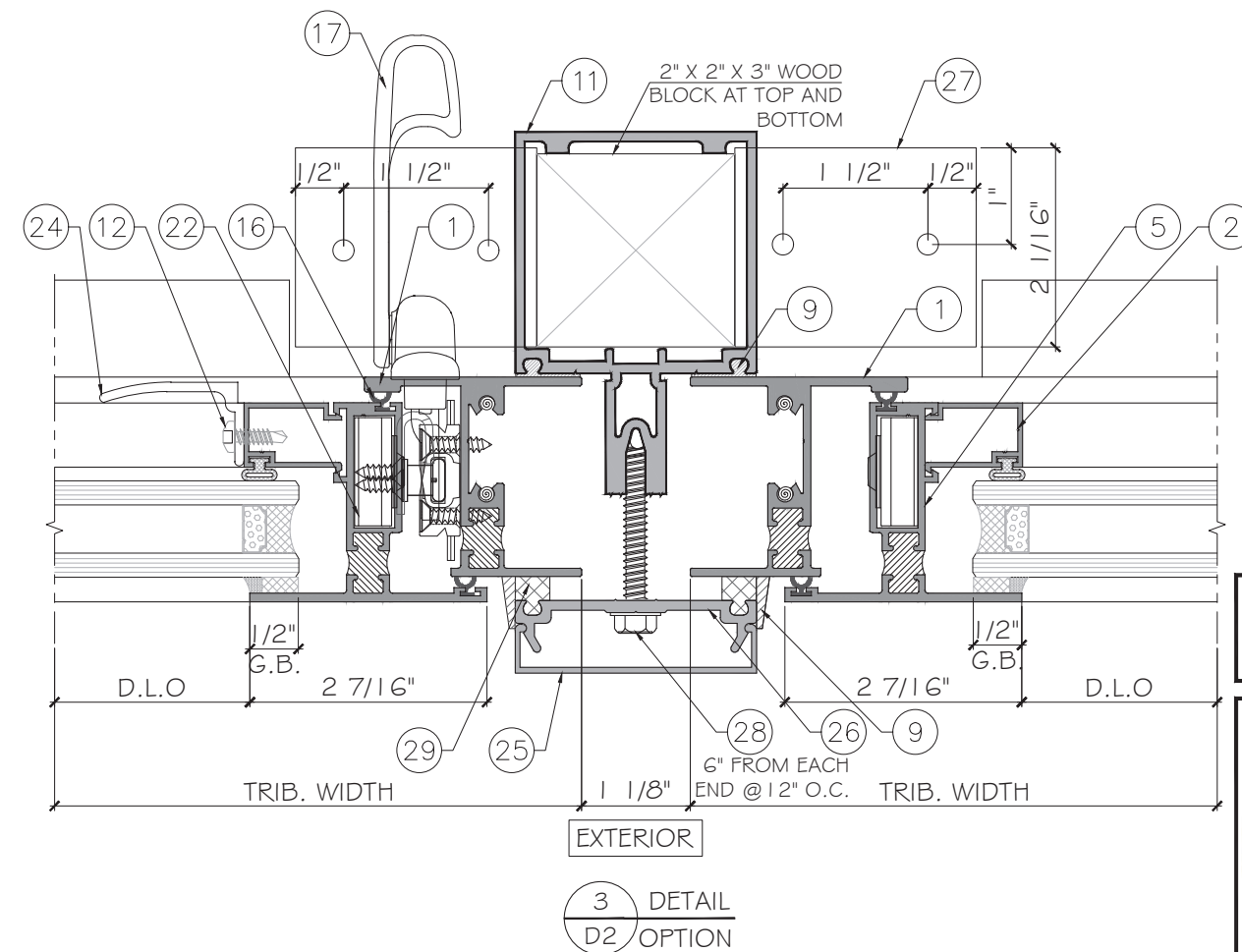
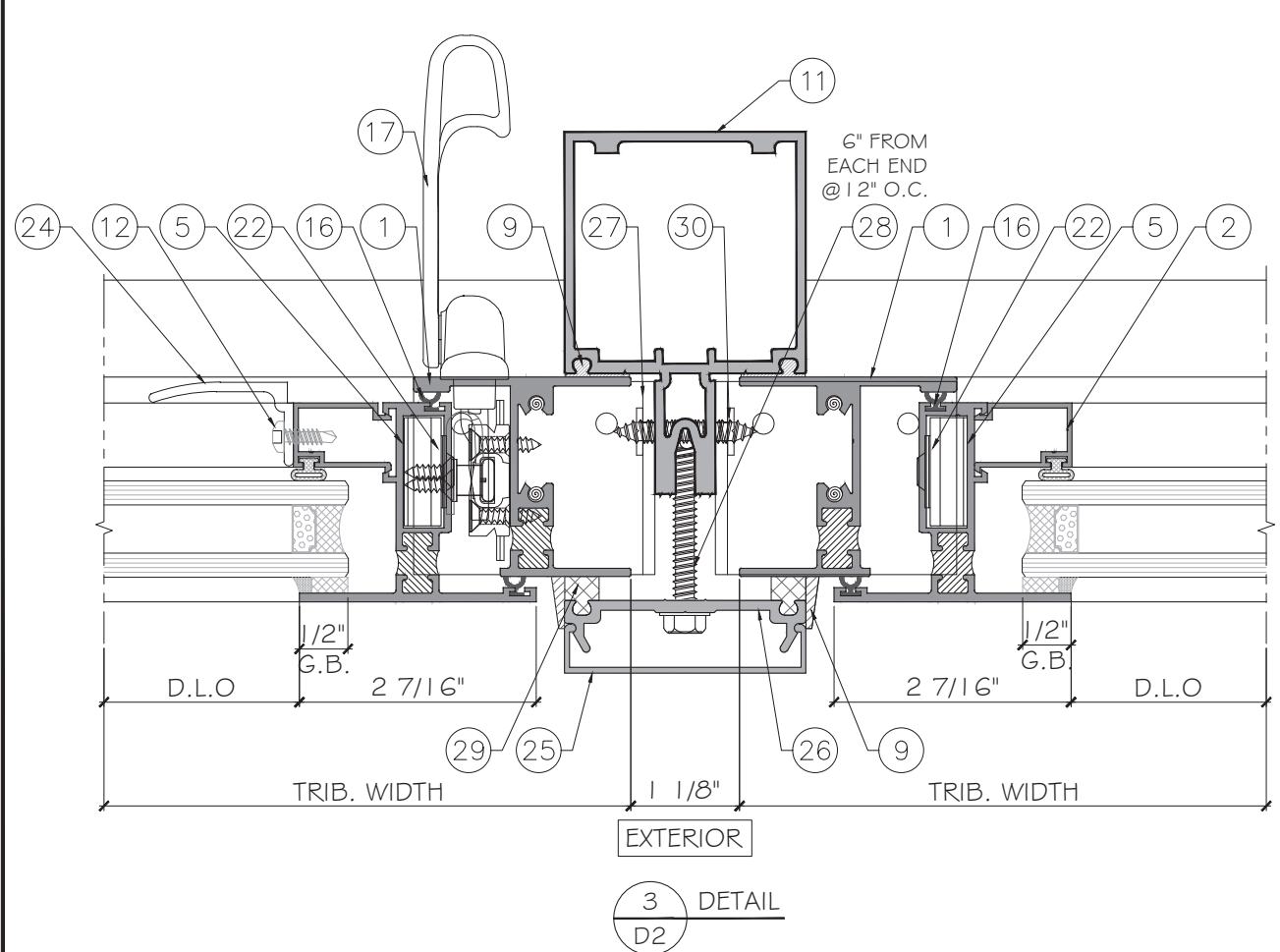
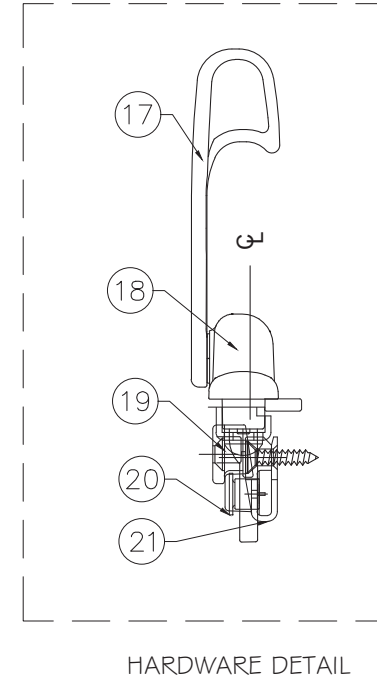
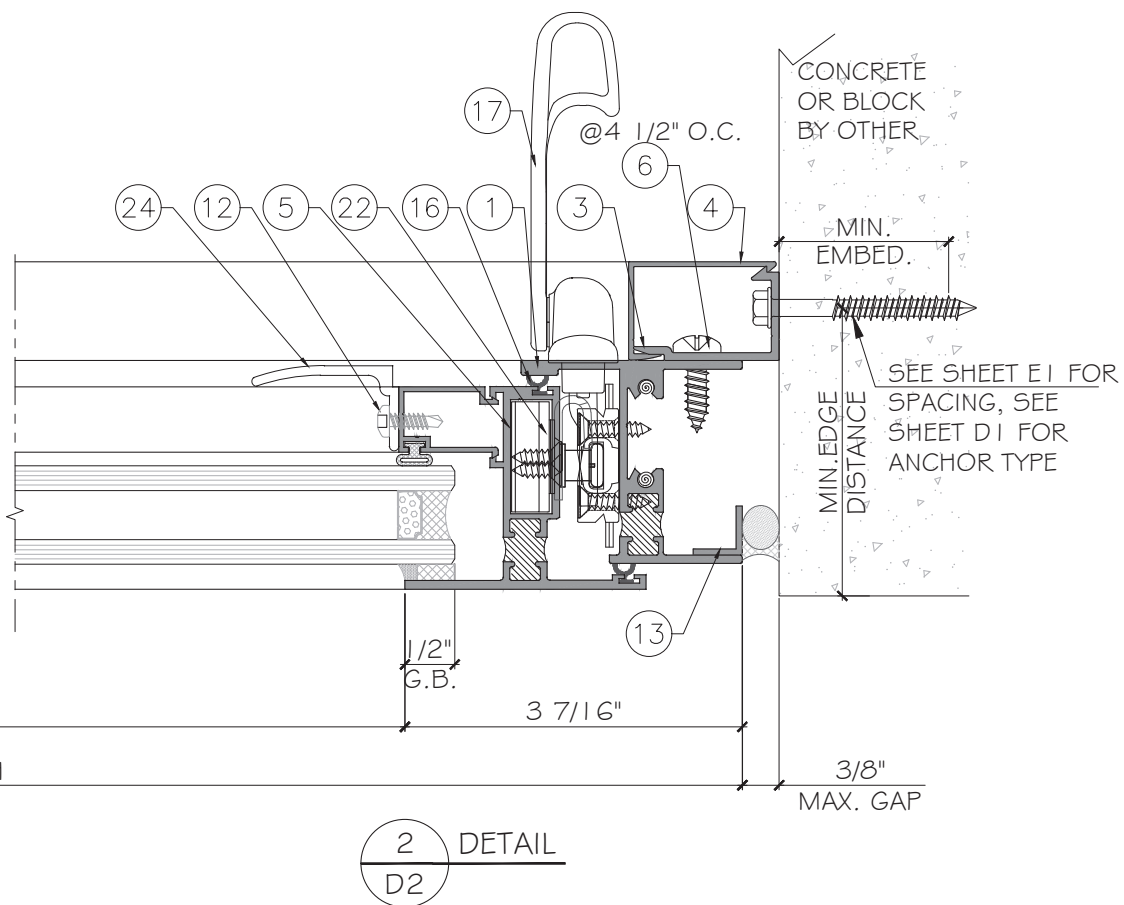
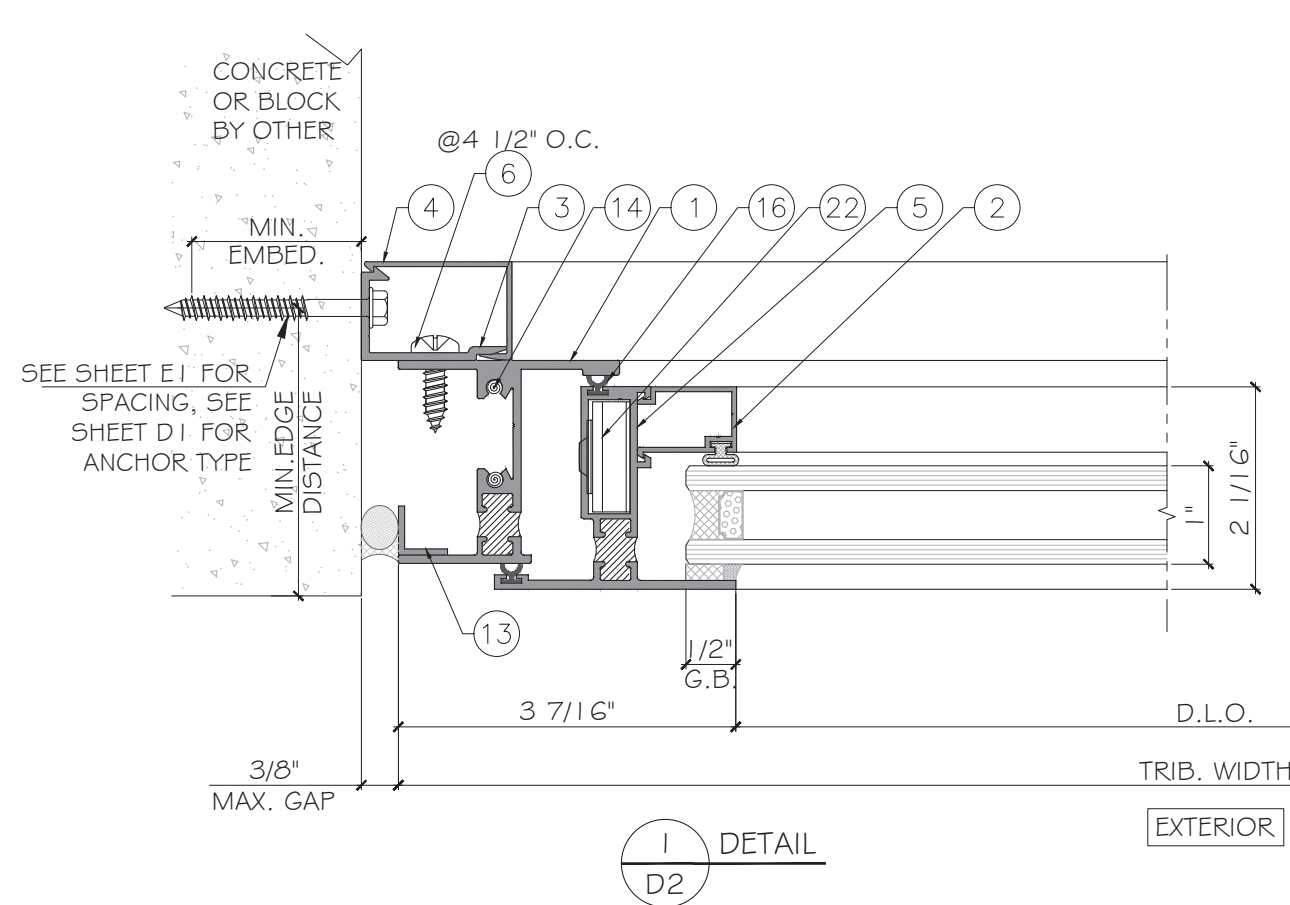
INTO CONCRETE OR MASONRY = 2-1/2" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

NOTE:
 METAL STRUCTURE BY OTHERS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

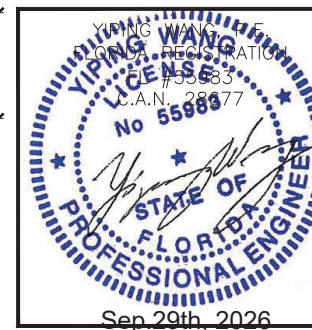
FLORIDA APPROVAL:
 FL 40701.1



Rev. No.	Date	Drawn By	Description
R3	09/29/2026	JAMES	UPDATE FBC 2026
R2	11/16/2023	JAMES	UPDATE FBC 2023
Drawn Date: 09/29/2026 Scale:			
Drawing No. AD21-59			
Sheet No. 4 OF 10			



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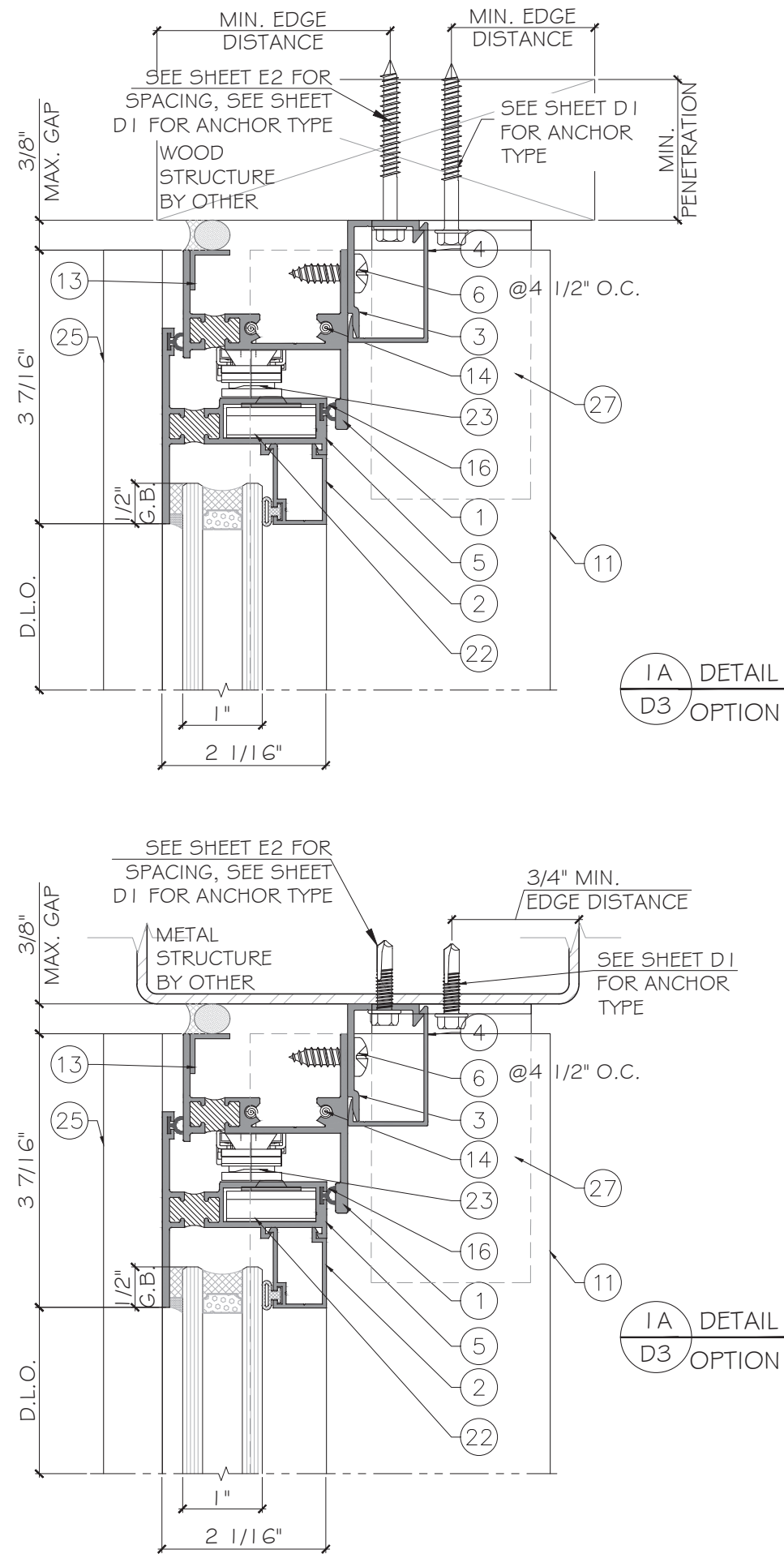
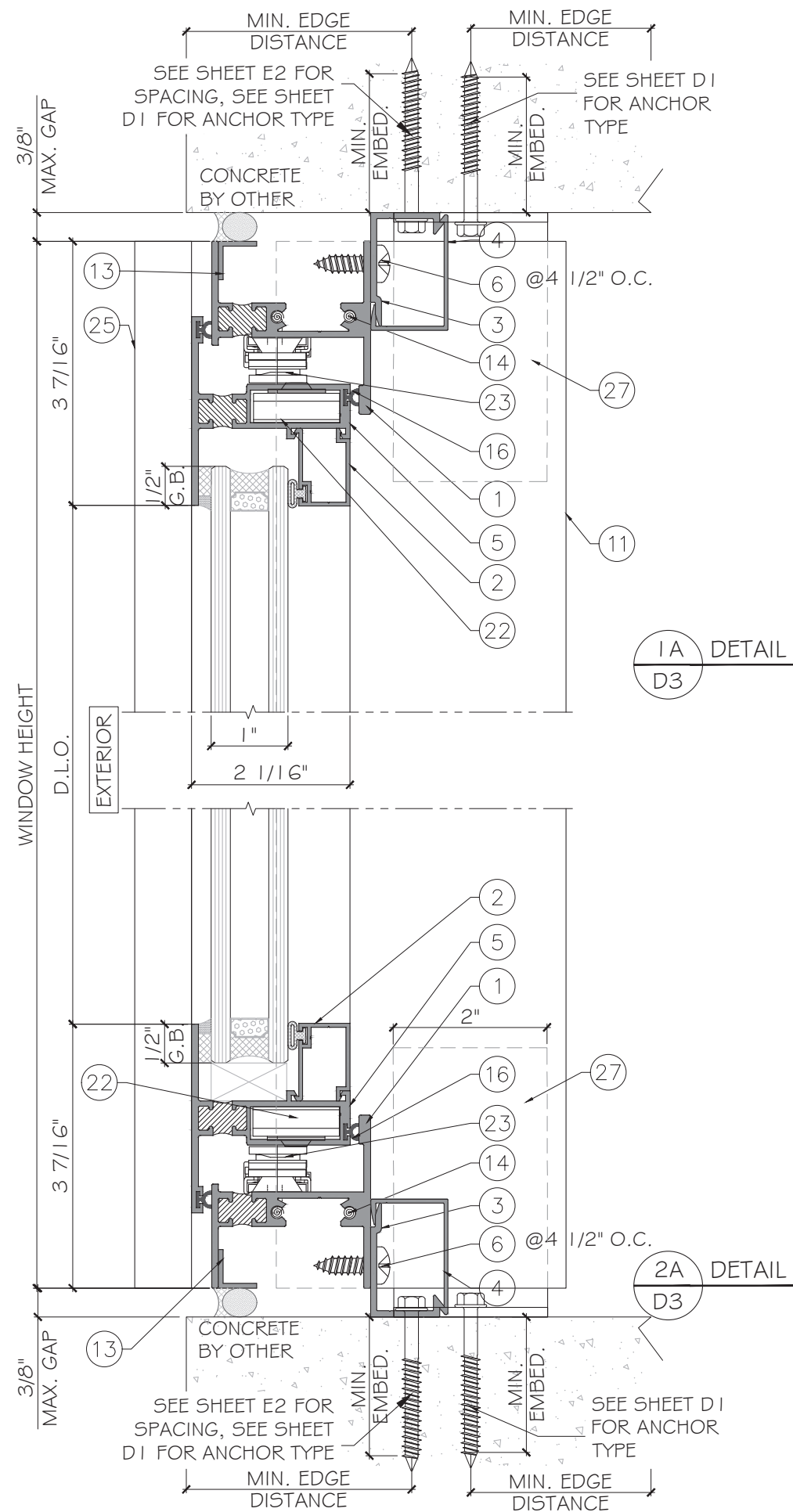
Rev. No.	Date	Drawn By	Description
R3	09/29/2026	JAMES	UPDATE DEC 2026
R2	11/16/2023	JAMES	UPDATE DEC 2023

Drawn Date: 09/29/2026 Scale:

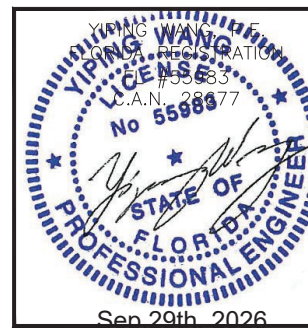
DRAWING NO.
AD21-59

D2
Sheet No.
5 OF 10

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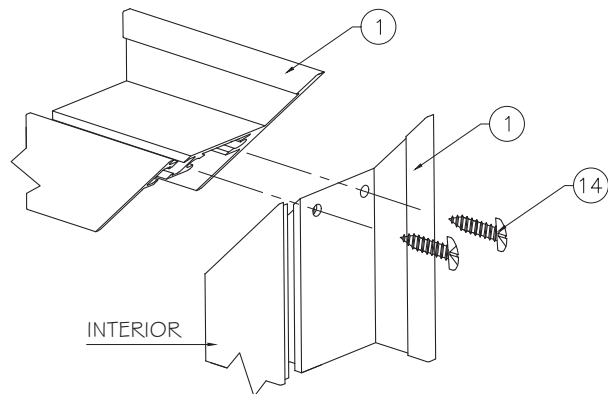
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9195 BOGGY CREEK RD SUITE #1
ORLANDO, FL 32824
TEL: 407 857 9237 EMAIL: INFO@AATCTW.NET

Rev. No.	Date	Drawn By	Description
R3	09/29/2026	JAMES	UPDATE FCC 2026
R2	11/16/2023	JAMES	UPDATE FCC 2023

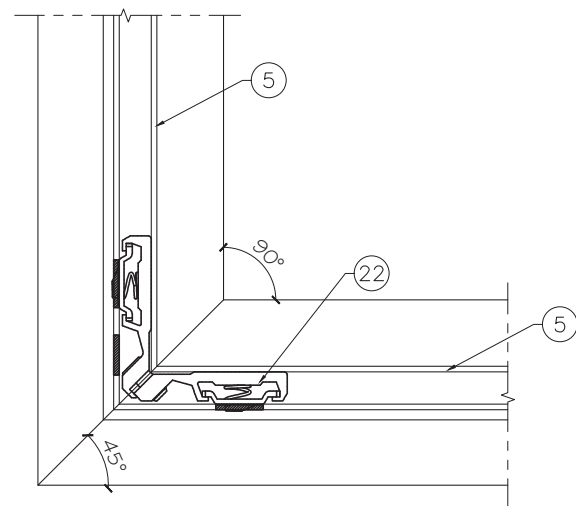
Drawn Date	Scale
09/29/2026	

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AD21-59

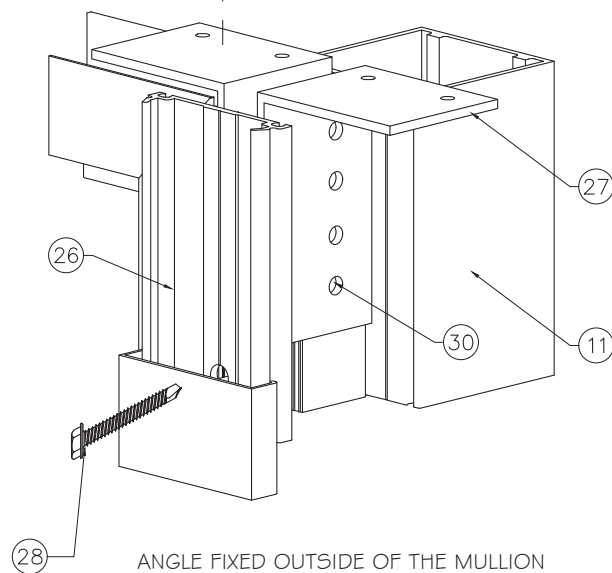
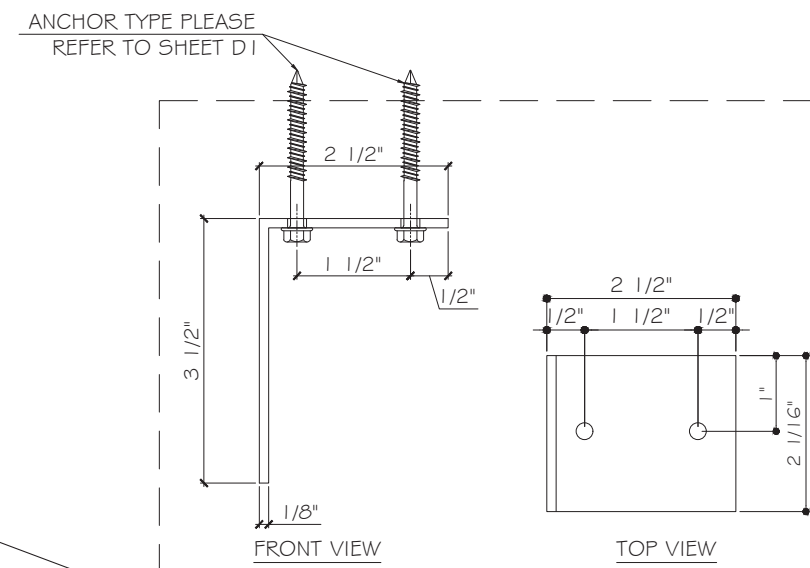
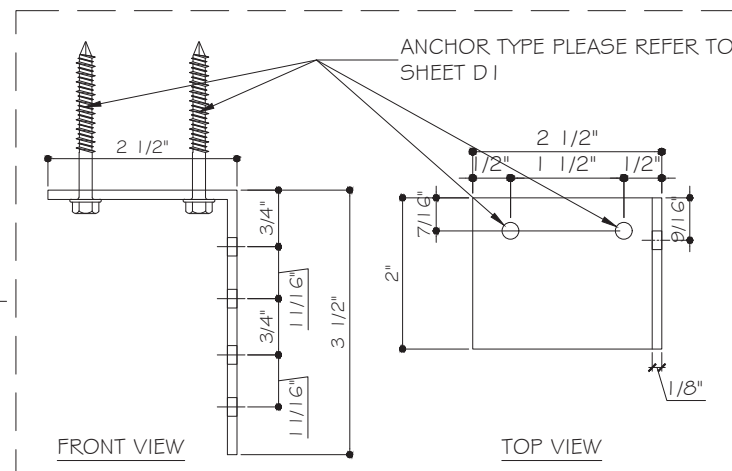
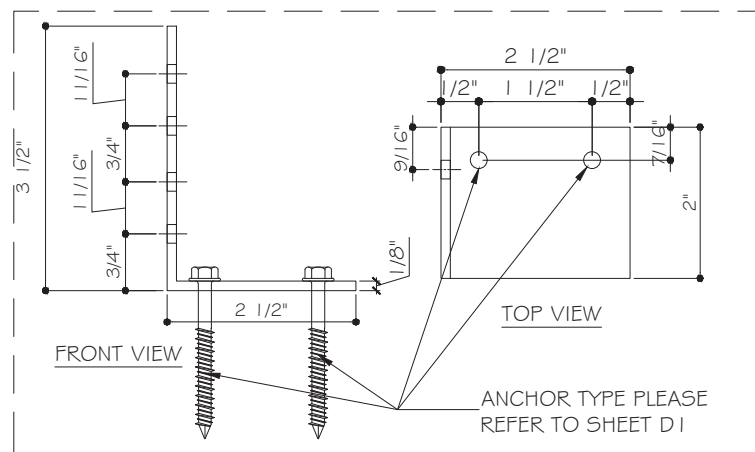
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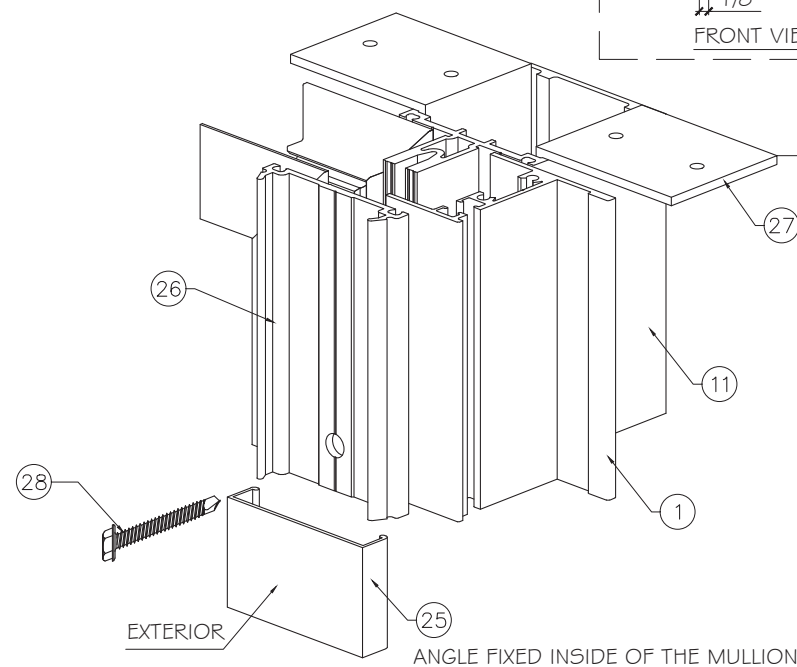
TYPICAL FRAME CORNER ASSEMBLY



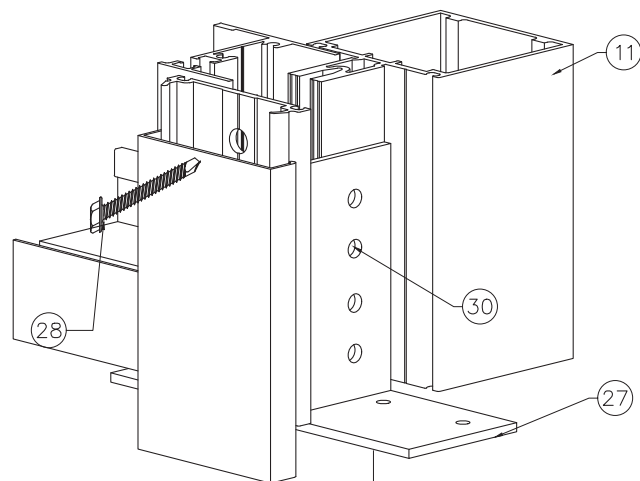
TYPICAL VENT CORNER ASSEMBLY



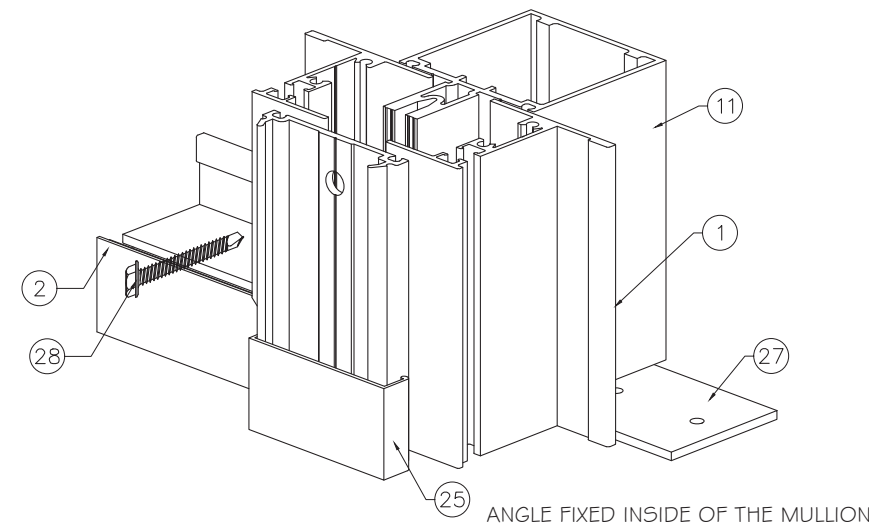
ANGLE FIXED OUTSIDE OF THE MULLION



ANGLE FIXED INSIDE OF THE MULLION

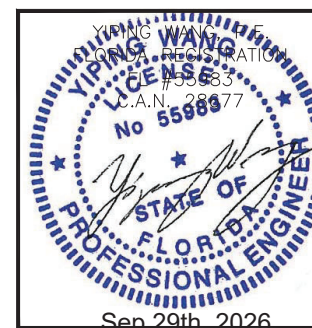


ANGLE FIXED OUTSIDE OF THE MULLION



ANGLE FIXED INSIDE OF THE MULLION

FLORIDA APPROVAL:
FL 40701.1

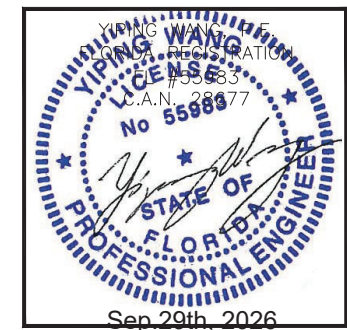
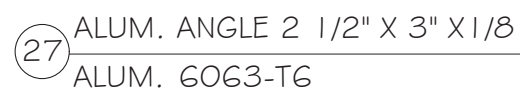
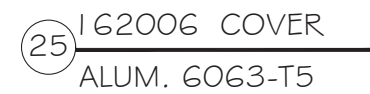
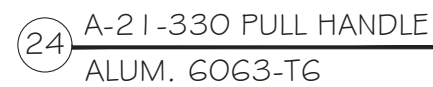
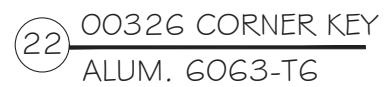


SERIES 400 THERMAL CASEMENT WINDOW NON IMPACT

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DRAUGHTING			
DRAWING NO. AD21-59			
ASSEMBLY			
Sheet No. 8 OF 10			

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY, STE. 301
MIRAMAR, FL 33027
P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

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MIRAMAR, FL 33027 P: 305.588.5212

www.MCYEngineering.com mcy@mcyengineering.com

MARK	PART #	DESCRIPTION	MATERIAL
1	9083	FRAME SILL/ HEAD/ JAMB	ALUM. ALLOY 6063-T6
2	9081	GLAZING BEAD FOR 1" GLASS	ALUM. ALLOY 6063-T6
3	WLB-2004	PERIMETER SSG FILLER	ALUM. ALLOY 6063-T6
4	WLB-2005	PERIMETER SSG FILLER	ALUM. ALLOY 6063-T6
5	9080	VENT SASH SILL / HEAD / JAMBS	ALUM. ALLOY 6063-T6
6	-	#14 X 2" LONG SMS 3" FROM EACH END, 4 1/2" O.C.	STAINLESS STEEL
7	2288	GLAZING BEAD GASKET	VINYL RUBBER
8	S499DC	FOAM TAPE BLACK GLAZING TAPE (3/16" x 1/4")	URETHANE FOAM
9	DOW 795	GLAZING COMPOUND SILICONE	SILICONE
10	TPR 566	SETTING BLOCK	70 DUROMETER EPDM
11	-	MULLION	ALUM. ALLOY 6063-T6
12	-	#8 x 3/4" SCREW, FOR PULL HANDLE	STAINLESS STEEL
13	79H	1/2" x 1/2" x 1/8" ANGLE CONTINUOUS FRAME WIDTH	ALUM. ALLOY 6063-T6
14	-	#8 x 1 1/2" P.PH. S.M.S. - FRAME ASSEMBLY	18-8 STAINLESS STEEL
15	SM5504	SCHNEE-MOOREHEAD ACRYL-R NARROW JOINT SEALANT	ACRYLIC
16	3220	GLAZING BULB VINYL	VINYL
17	LB08-7510-12	ROTO FRANK OPERATOR HANDLE (SILVER)	
18	G2-HNDLPLT-02	LOCK HANDLE FASTENER PLATE (WHITE)	
19	GT990	LOCK HANDLE SCREW #8-32 X 1/2" TAPTITE	18-8 STAINLESS STL.
20	LB05-1004-51	ROTO FRANK GUIDE HOUSING (BLACK)	
21	LB06-2300	ROTO FRANK KEEPER	300 STAINLESS STL.
22	#00326	CORNER KEY	ALUM. ALLOY 6063-T6
23	-	16" S.S. 4 BAR FRICTION HINGE	300 STAINLESS STL.
24	A-21-330	EXTRUDED ALUMINUM PULL HANDLE	ALUM. ALLOY 6063-T6
25	162006	COVER	ALUM. ALLOY 6063-T5
26	162335	PRESSURE PLATE	ALUM. ALLOY 6063-T6
27	-	2 1/2" X 3 1/2" X 1/8" ALUM. ANGLE 2" LONG	ALUM. ALLOY 6063-T6
28	-	1/4" - 14 X 2" LONG TYPE - B ELCO DRILL FLEX	STAINLESS STEEL
29	027 - 857	GASKET	EPDM 70 DUROMETER
30	-	#14 X 1 1/4" UNDERCUT FLAT HEAD	STAINLESS STEEL

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