

SERIES 3070 ALUMINUM WINDOW WALL
LARGE MISSILE IMPACT (L.M.I. & S.M.I.)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOW WALL RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT 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 FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY CONTINENTAL GLASS SYSTEMS, LLC. 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.
- 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.

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 E1.
- STEP 3: SEE CHART 1 ON SHEET G1 FOR APPROVED GLASS TYPES AND DESIGN LOAD CAPACITIES BASED ON APPLICABLE WIND DURATION. FOR SSG OPTION SEE CHART 2 ON SHEET G1 FOR DESIGN LOAD CAPACITIES. GLASS CAPACITY GOVERNED BY CHART 1 OR CHART 2 WHICHEVER IS CRITICAL.
- STEP 4: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1 AND M2. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5: CHECK ANCHOR TYPE ON SHEET A3 AND ANCHOR CAPACITY ON SHEET A1 & A2. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 6: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

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	

NOTE:

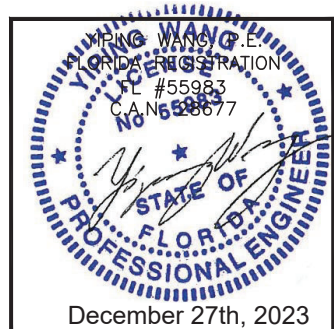
GLASS COMPLIES WITH ASTM E 1300-16
(3 SEC. GUSTS).

LIMITATIONS OF USE

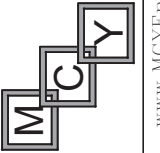
- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HOWEVER DOES NOT DEVIATE FROM THE CONDITIONS STATED IN 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#22207.2



MCY ENGINEERING, INC.
GLAZING CONSULTANTS



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SERIES 3070 ALUMINUM WINDOW WALL (LMI & SMI)

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325 WEST 71 PL ACE HIALEAH FL 33014

325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

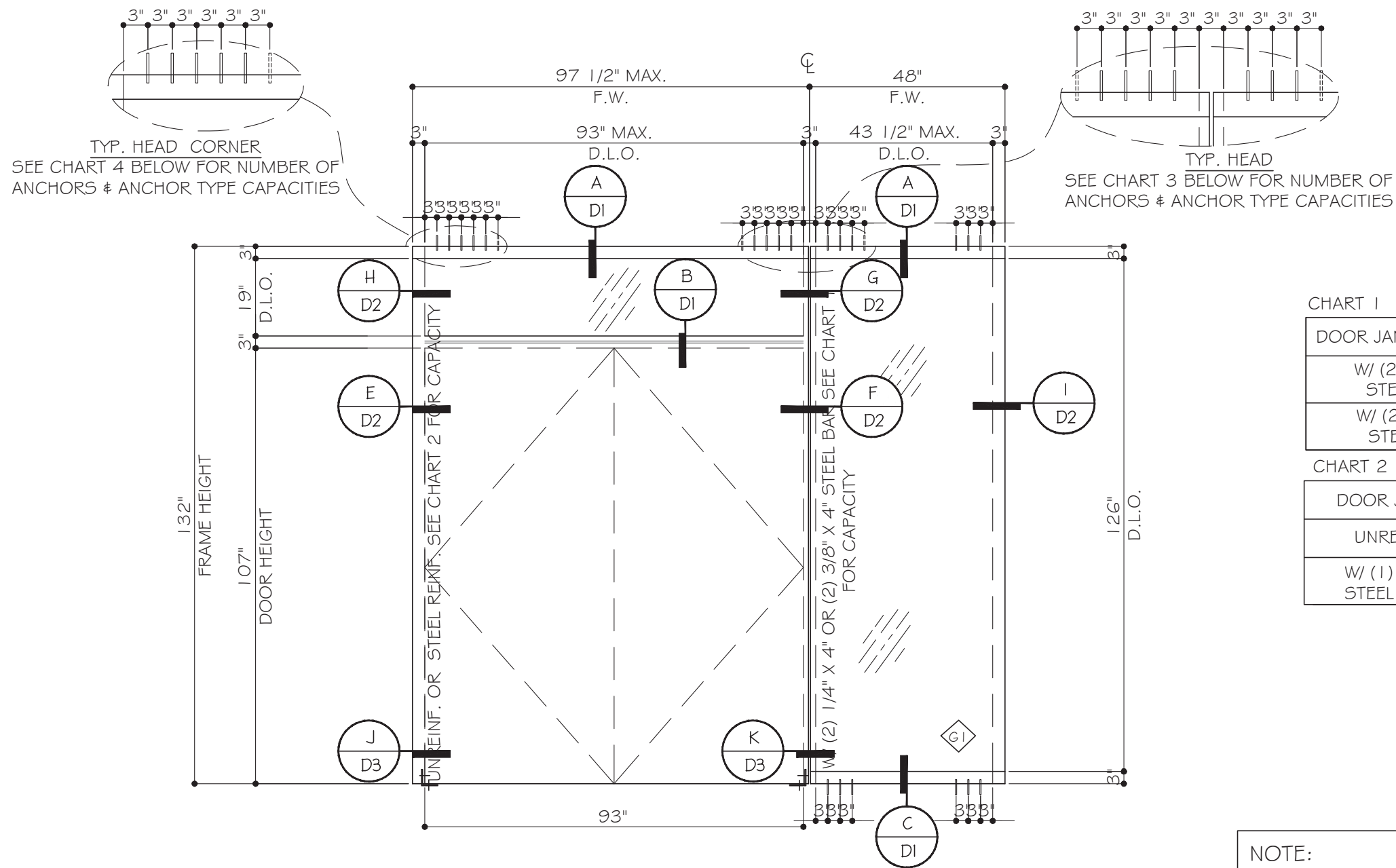
R2	12/11/2023	James	FBC 2023
Rev. No.	Date	Drawn By	Description

Drawn Date	Scale
12.11.2023	AS SHOWN

DRAWING NO.
AD17-16

COVER

Sheet No.
1 OF 15



TYPICAL EXTERIOR ELEVATION
WITH DOUBLE DOOR

CHART 1

DOOR JAMB MULLION	P _{dall.} (PSF)
W/ (2) 1/4"X4" STEEL BAR	+ 109.3 - 109.3
W/ (2) 3/8"X4" STEEL BAR	+ 120.0 - 126.2

CHART 2

DOOR JAMB JAMB	P _{dall.} (PSF)
UNREINFORCED	+ 105.8 - 105.8
W/ (1) 1/4"X4 1/2" STEEL BAR	+ 120.0 - 130.0

NOTE:
DESIGN LOAD CAPACITY FOR SIZE SHOWN
ON THIS ELEVATION. FOR DIFFERENT SIZE,
TO BE ENGINEERED SEPARATELY.

CHART 3

DOOR JAMB MULLION ANCHOR CHART AT TOP			
ANCHOR TYPE	# OF ANCHORS @ DOOR SIDE	# OF ANCHORS @ SIDELITE	CAPACITY (+/-PSF)
A	4	3	88.9
A	5	4	114.3
B	4	3	95.3
B	5	4	122.5
BB	4	3	111.7
BB	5	4	130.0
C	4	3	104.4
C	5	4	130.0

FOR ANCHORS TYPE SEE SHEET A3

CHART 4

DOOR JAMB JAMB ANCHOR CHART AT TOP		
ANCHOR TYPE	# OF ANCHORS @ DOOR SIDE	CAPACITY (+/-PSF)
A	5	94.1
A	6	112.9
B	5	100.8
B	6	121.0
BB	4	94.5
BB	6	130.0
C	5	110.5
C	6	130.0

FLORIDA APPROVAL:
FL#22207.2

Professional Engineer Seal for YONG WANG, P.E., State of Florida, Registration No. 55983, Exp. 12/31/2023. The seal includes a signature and the date December 27th, 2023.

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Rev. No.	R2	Date	12.11.2023
Drawn By	James	Drawn By	James
Description	FBC 2023	Description	FBC 2023
DRAWING NO. AD17-16			
E1			
Sheet No. 02 OF 15			



YIPING WANG P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 68677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

December 27th, 2023

								FBC 2023	Description
								James	Drawn By
							12.11.2023	Date	
						R2	Rev. No.		
Drawn Date 12.11.2023						Scale AS SHOWN			
DRAWING NO. AD17-16									
 E2									
Sheet No. 03 OF 15									

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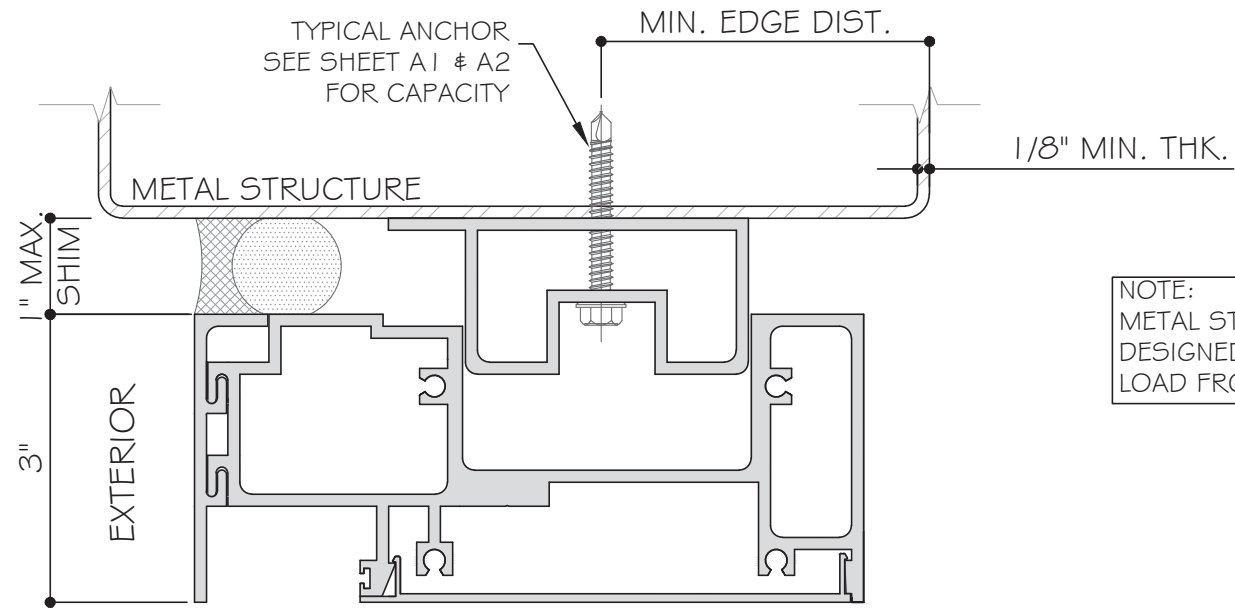
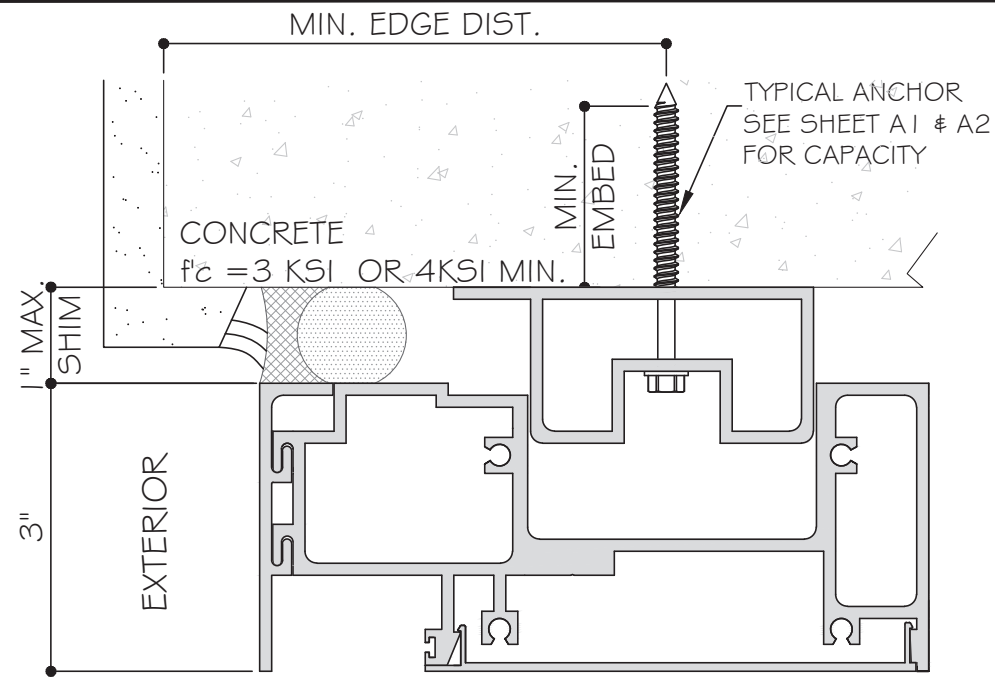
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NOTE:
METAL STRUCTURE BY OTHERS TO BE
DESIGNED PROPERLY TO SUSTAIN THE
LOAD FROM GLAZING SYSTEM.

TYPICAL ANCHORS AT HEAD/SILL:

TYPE "A": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
1-3/4" MIN. EMBED DIRECTLY INTO $f'_c = 3 \text{ KSI MIN. CONCRETE}$
2 1/2" MIN. EDGE DISTANCE
@ 3" MIN. O.C.

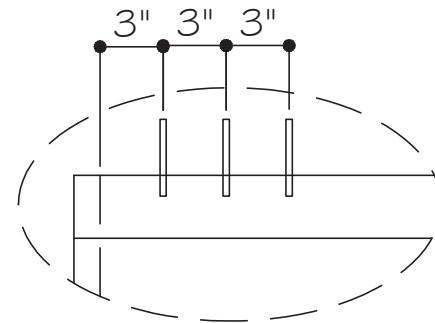
TYPE "B": 5/16" DIA. ULTRACON BY DEWALT ($F_u = 177 \text{ KSI}$, $F_y = 155 \text{ KSI}$)
1 3/4" MIN. EMBED DIRECTLY INTO $f'_c = 3 \text{ KSI MIN. CONCRETE}$
3" MIN. EDGE DISTANCE
@ 3" MIN. O.C.

TYPE "BB": 5/16" ULTRACON BY DEWALT ($F_u = 177 \text{ KSI}$, $F_y = 155 \text{ KSI}$)
1 3/4" MIN. EMBED DIRECTLY INTO $f'_c = 4 \text{ KSI MIN. CONCRETE}$
3" MIN. EDGE DISTANCE
3" MIN. O.C.

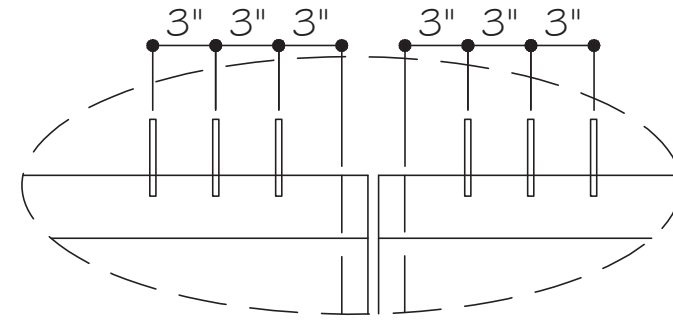
TYPE "C": #14 SMS (GRADE 2) ($F_u = 74 \text{ KSI}$, $F_y = 57 \text{ KSI}$)
OR 1/4" TEKS (GRADE 5-SELF DRILLING SCREW) ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$)
INTO 1/8" MIN. THK. ALUMINUM STRUCTURE (6063-T5)
3" O.C.

-SEALANTS:

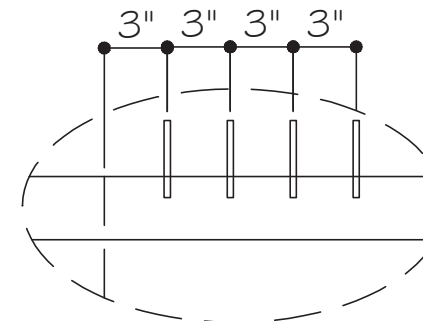
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER
GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH
SILICONE SEALANT.



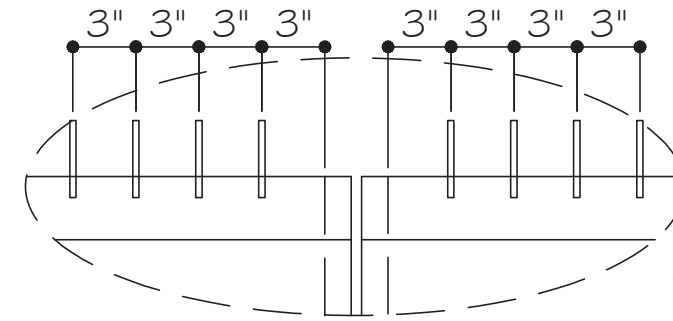
HEAD/SILL ANCHOR TYPE
"A3", "B3", "BB3", "C3"
(3) ANCHORS AT EACH SIDE
OF JAMB



HEAD/SILL ANCHOR TYPE
"A3", "B3", "BB3", "C3"
(3) ANCHORS AT EACH SIDE OF
MULLION

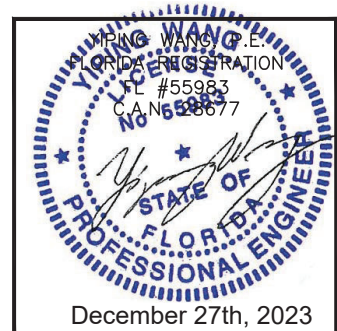


HEAD/SILL ANCHOR TYPE
"A4", "B4", "BB4", "C4"
(4) ANCHORS AT EACH SIDE OF
JAMB



HEAD/SILL ANCHOR TYPE
"A4", "B4", "BB4", "C4"
(4) ANCHORS AT EACH SIDE OF
MULLION

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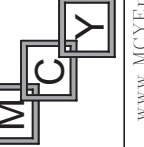
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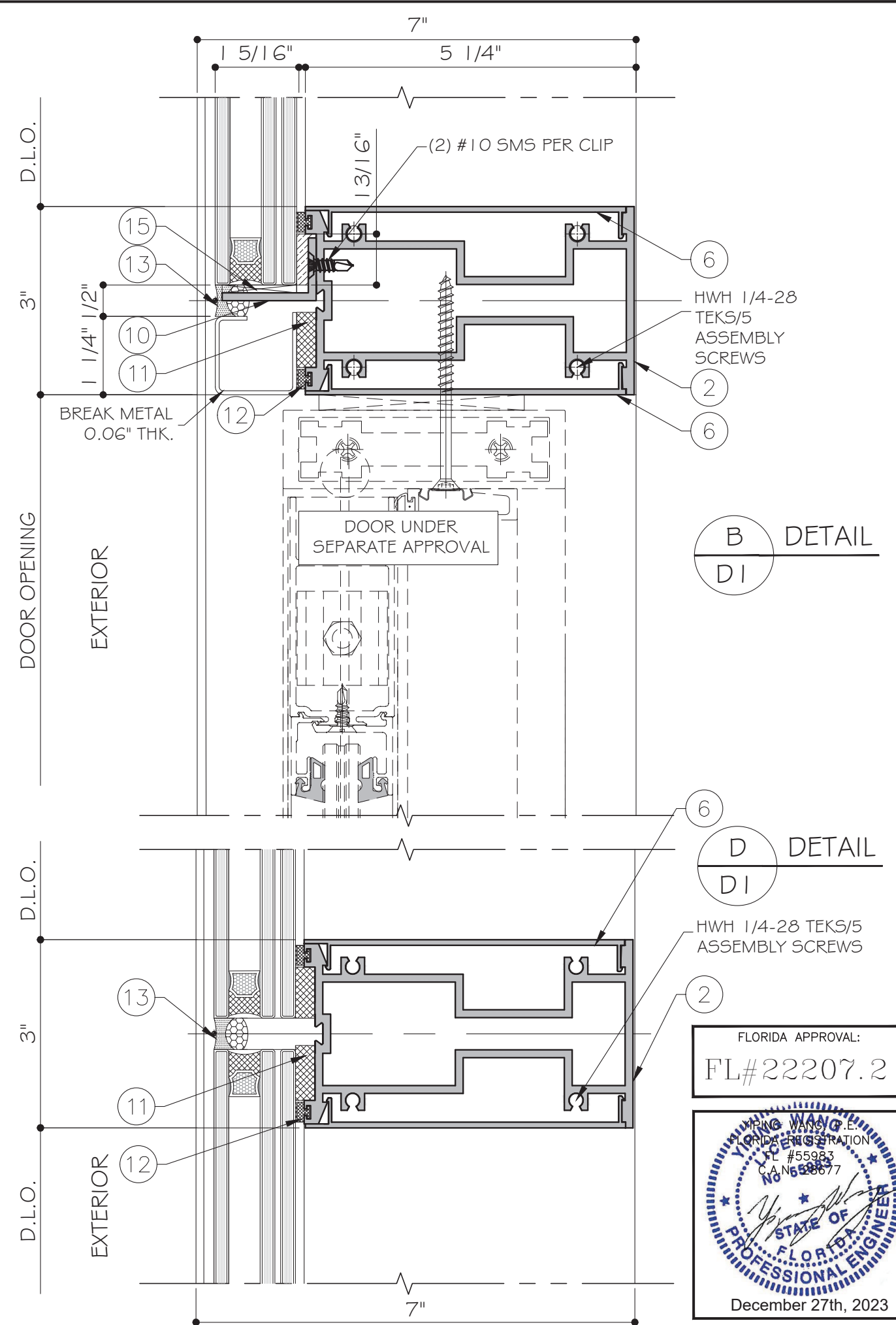
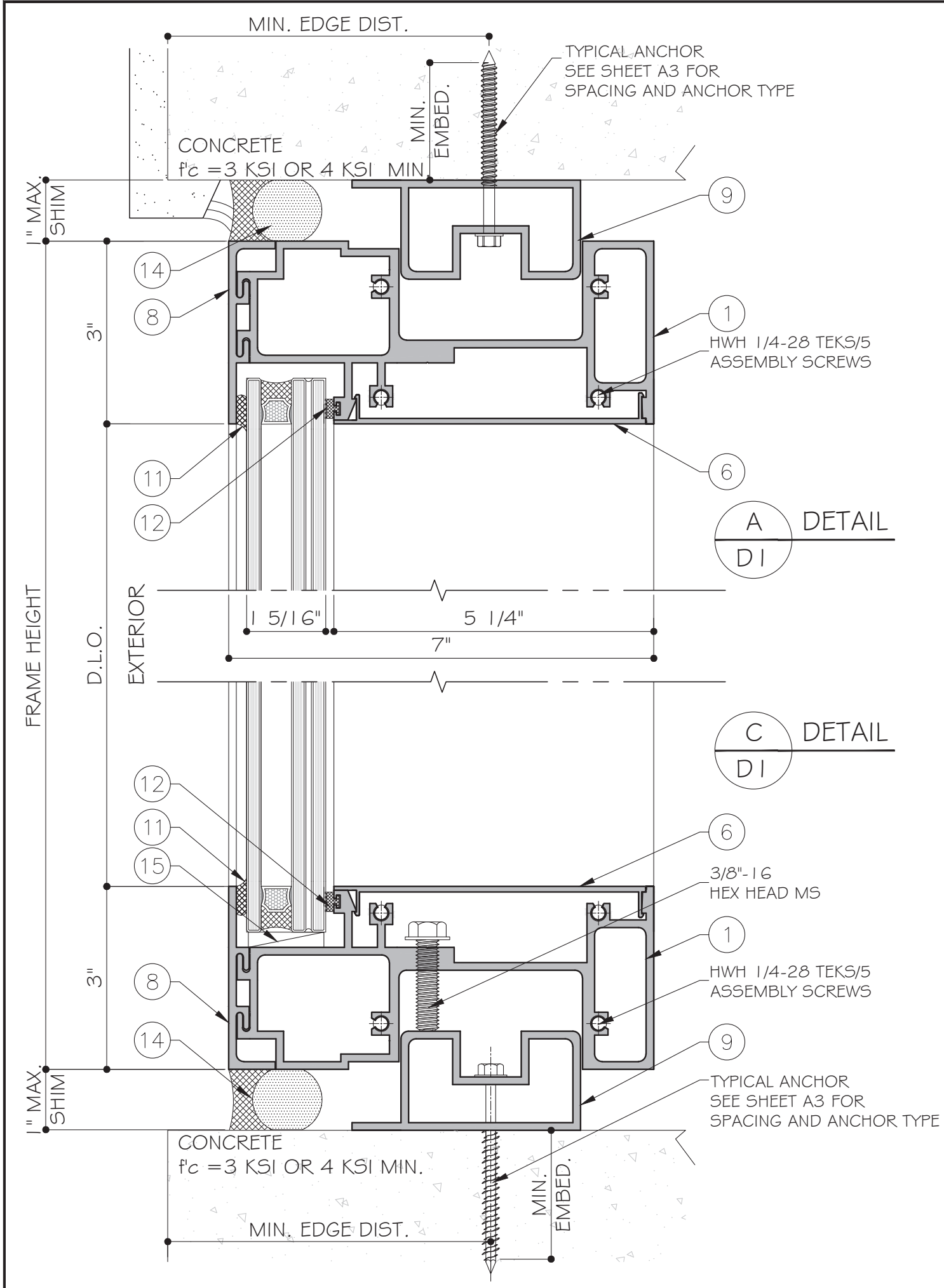
GLAZING CONSULTANTS



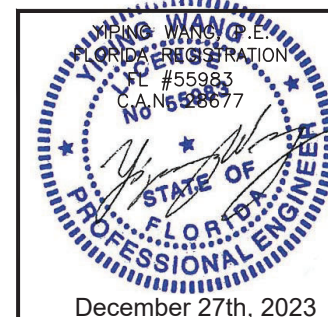
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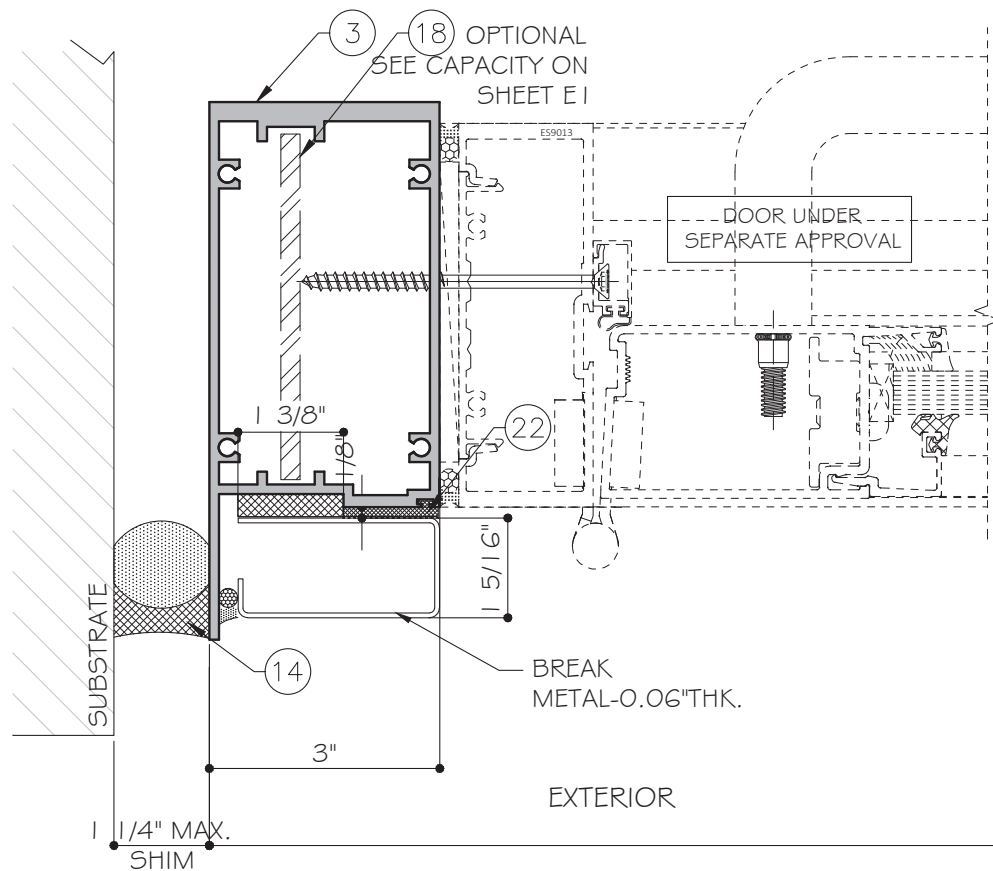
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A3			
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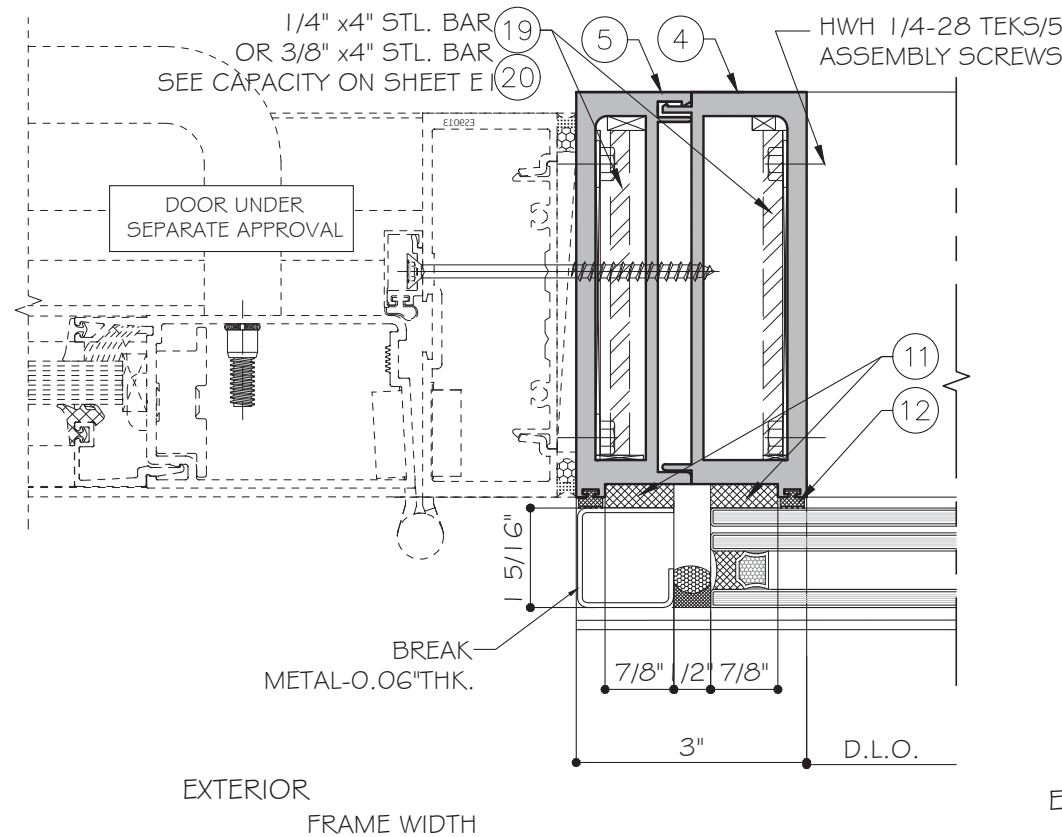
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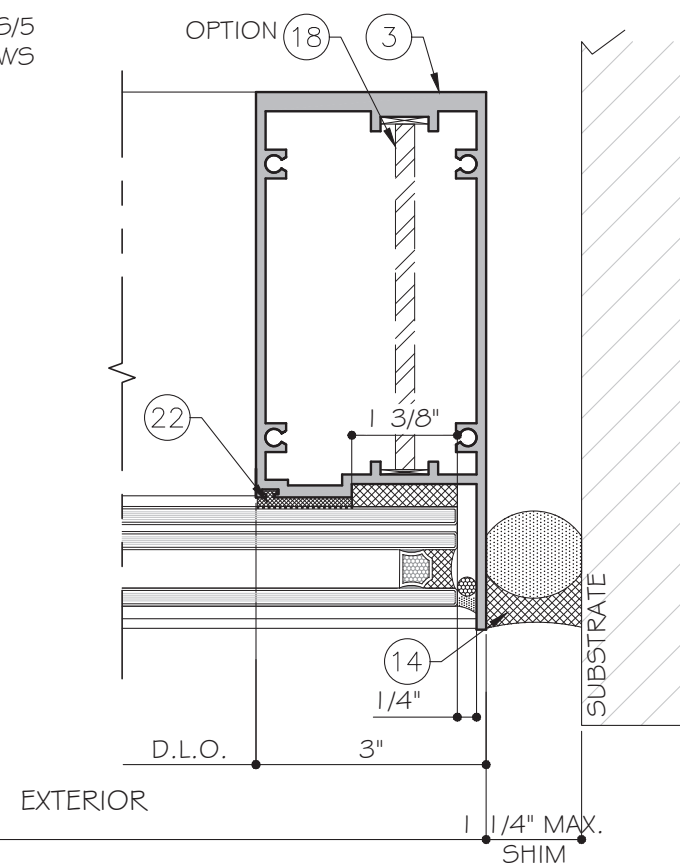
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E DETAIL
D2

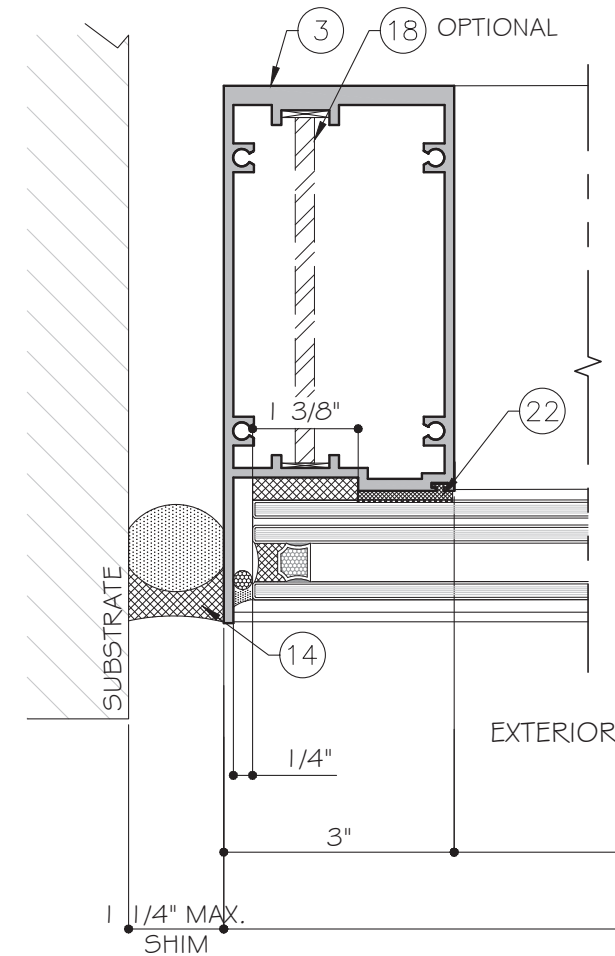


F DETAIL
D2

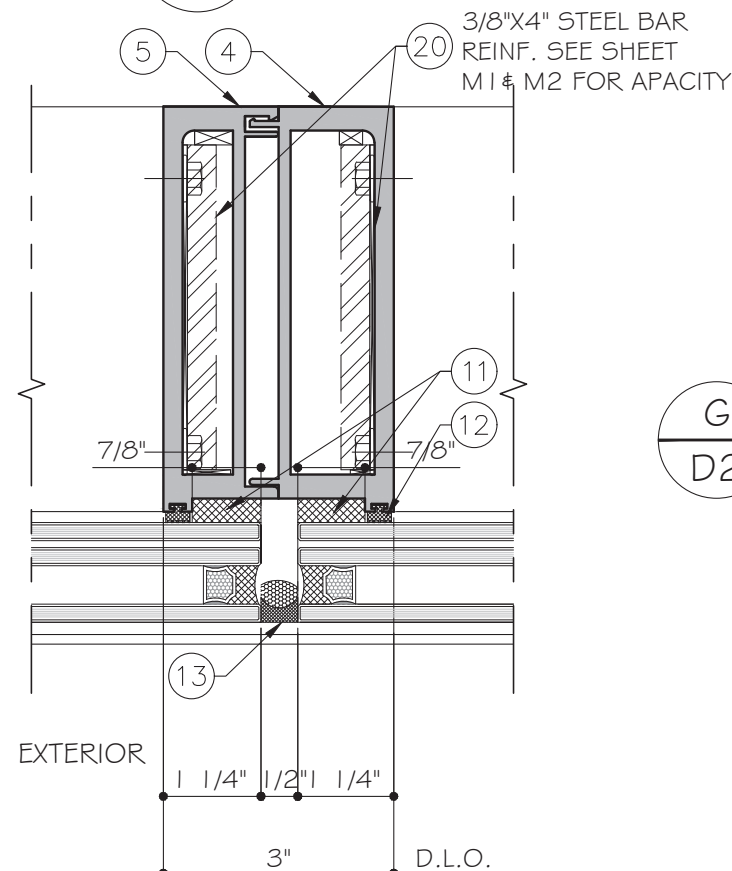


I DETAIL
D2

MAX. FRAME HEIGHT	JAMB GAP	
	MIN.	MIN.
102"	1/2"	1 1/4"
126"	5/8"	1 1/4"
150"	3/4"	1 1/4"

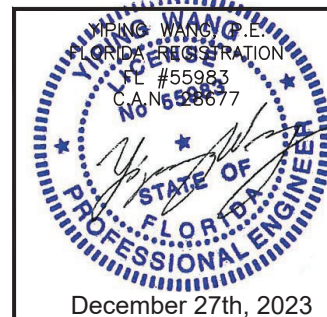


H DETAIL
D2 TYPICAL JAMB



G DETAIL
D2 TYPICAL MULLION

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FL#22207.2



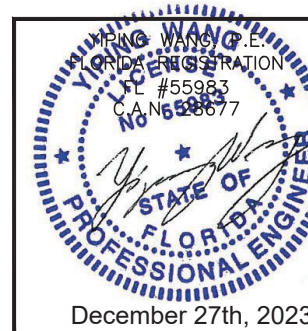
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(2) 3/8" DIA. COUNTERSUNK-
S.S. KWIK BOLT INTO
CONCRETE (fc'=3000PSI)
W/ 1 5/8" MIN. EMBEDMENT.



FLORIDA APPROVAL:
FL#22207.2



					FBC 2023	Description
					James	Drawn
				R2	12.11.2023	Date
					Rev.	
Drawn Date 12.11.2023				Scale AS SHOWN		
DRAWING NO. AD17-16						
D3						
Sheet No. 12 OF 15						

SERIES 3070 ALUMINUM WINDOW WALL (LMI & SMI)

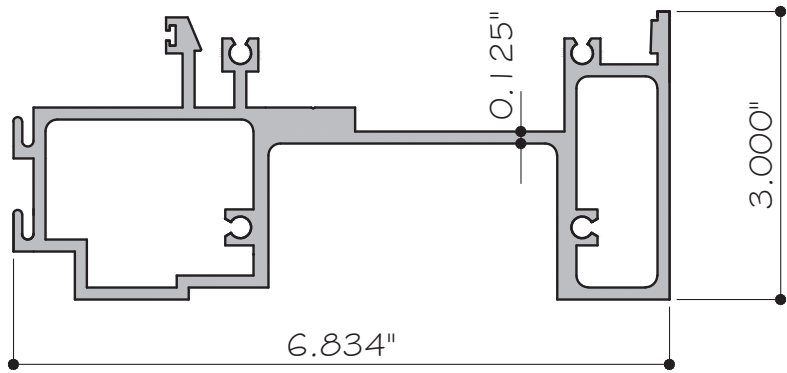
CONTINENTAL GLASS SYSTEMS, INC.

325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

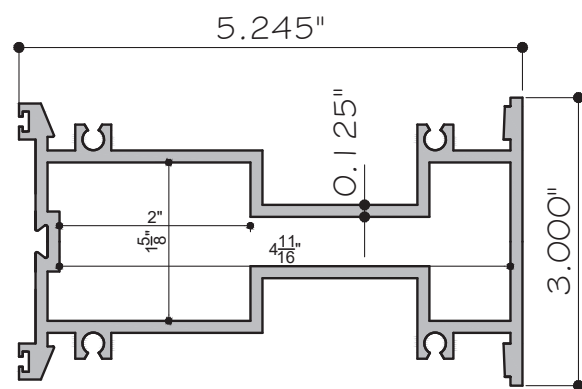
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE 301
MIRAMAR, FL 33027
F: 305.588.5224
P: 305.271.0117

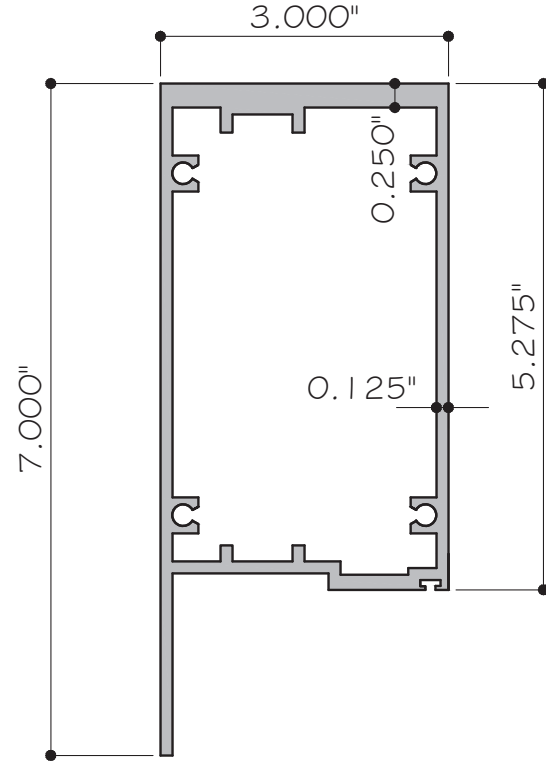
www.MCYPEngineering.com MCY@MCYPENGINEERING.COM



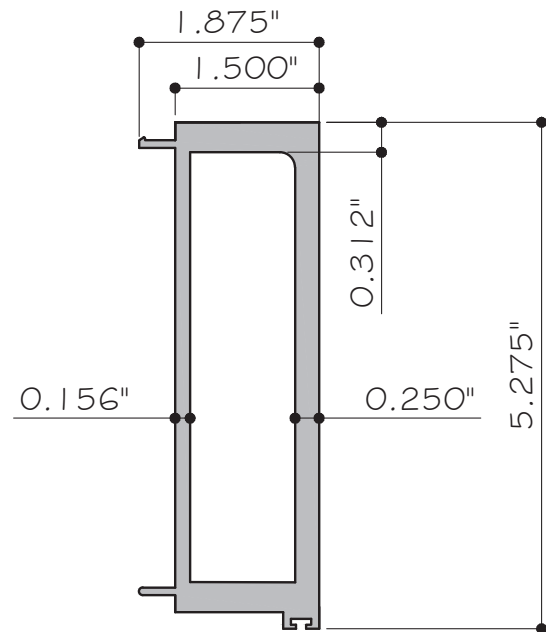
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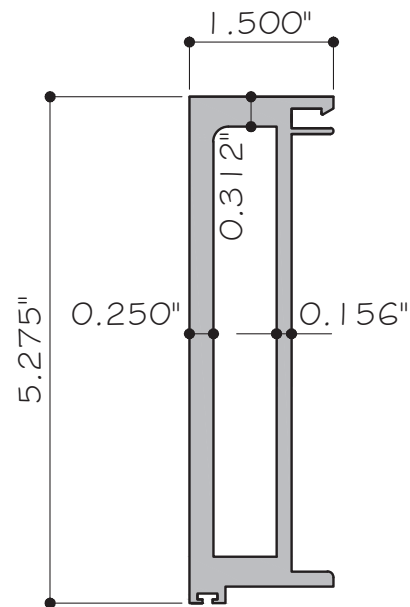
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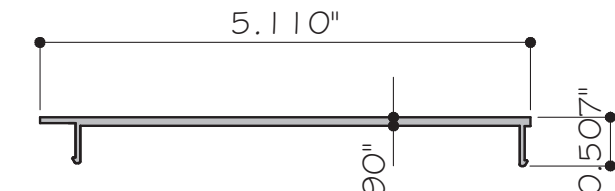
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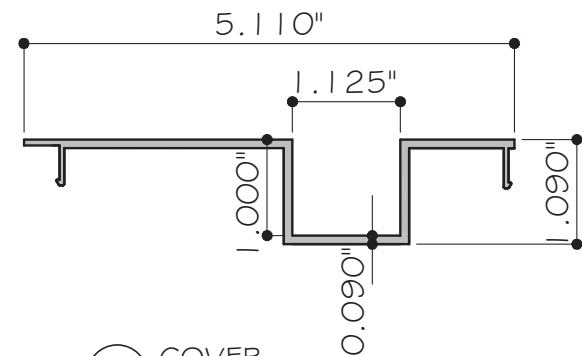
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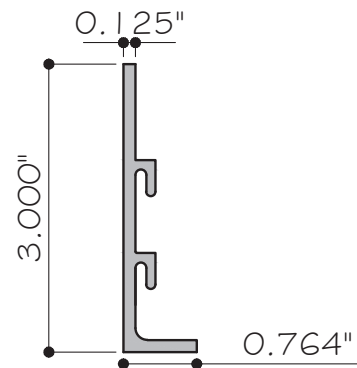
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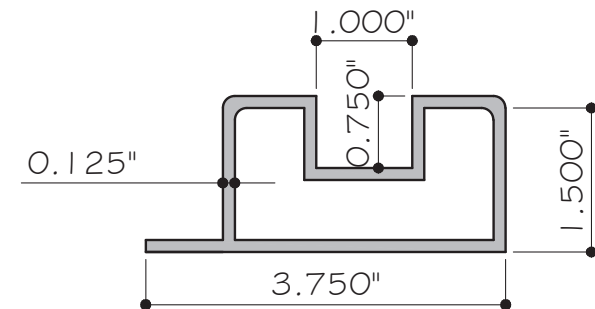
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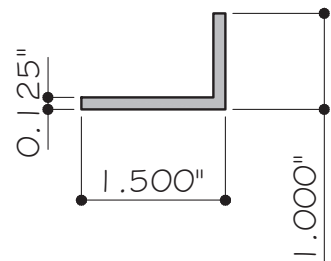
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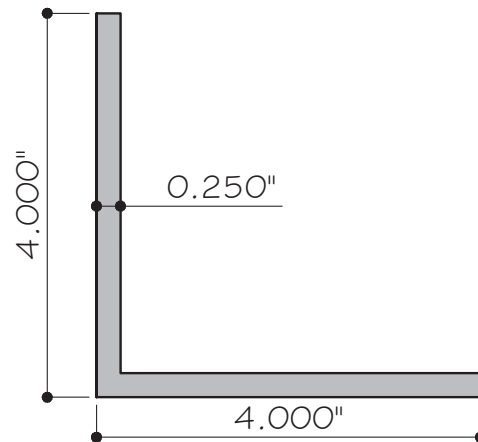
8 GLAZING BEAD
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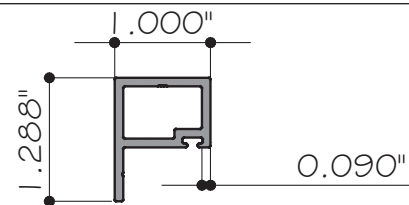
9 SGD JAMB AGAINST FIXED
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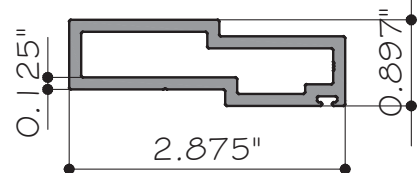
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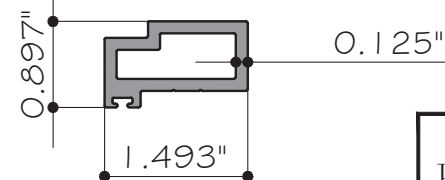
25 ALUM. ANGLE
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26 GLASS ADAPTOR
3070-14 6005-T5



28 GLASS ADAPTOR
3070-17 6063-T6



27 GLASS ADAPTOR
3070-15 6005-T5

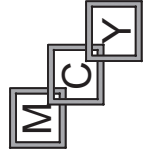
FLORIDA APPROVAL:
FL#22207.2

YONG WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A. No. 55983
December 27th, 2023

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	3070-01	HEAD / SILL	ALUM. 6005-T5	SAPA
2	3070-02	INTERMEDIATE	ALUM. 6005-T5	SAPA
3	3070-04	JAMB	ALUM. 6005-T5	SAPA
4	3070-05	MALE MULLION	ALUM. 6005-T5	SAPA
5	3070-06	FEMALE MULLION	ALUM. 6005-T5	SAPA
6	3070-07	COVER	ALUM. 6005-T5	SAPA
7	3070-08	COVER	ALUM. 6005-T5	SAPA
8	3070-09	GLAZING BEAD	ALUM. 6005-T5	SAPA
9	3070-10	SGD JAMB AGAINST FIXED	ALUM. 6005-T5	SAPA
10	-	ALUMINUM ANGLE 4" LG - SETTING CHAIR, (2) LOCATED AT THE W/4 OF THE UNIT	ALUM. 6005-T5	-
11	-	STRUCTURAL SEALANT DC983 OR DC995	SILICONE	DOWSIL
12	9333	GLAZING GASKET / SPACER	SILICONE	TRELLEBORG
13	-	SILICONE SEAL DC795 & BACKER ROD	SILICONE	DOWSIL
14	-	CONT. PERIMETER SEALANT DC795, DC983 OR DC995 AND BACKER ROD	SILICONE	DOWSIL
15	SSB-85D	1/4" X 1/4" X 4" SETTING BLOCK - 70 DURO	SILICONE	FRANK LOWE
16	-	4" X 4" X 1/4" X 4-1/2" LG. ALUM. ANGLE	ALUM. 6005-T5	-
17	-	3" X 3" X 1-1/2" LG. STEEL ANGLE	STEEL, A36 MIN.	-
18	-	1/4" X 4-1/2" STL. BAR REINF.	STEEL, A36 MIN.	-
19	-	1/4" X 4" STL. BAR REINF.	STEEL, A36 MIN.	-
20	-	3/8" X 4" STL. BAR REINF.	STEEL, A36 MIN.	-
22	3800-10	GLAZING GASKET / SPACER	STEEL, A36 MIN.	TRELLEBORG
23	E206	BULB GASKET WEATHER STRIPPING	STEEL, A36 MIN.	TRELLEBORG
24	9425-02-00	RAINSCREEN GASKET	STEEL, A36 MIN.	TRELLEBORG
25	-	GLAZING SPACER	ALUM.	ALU-PRO SRL
26	3070-14	GLAZING ADAPTOR FOR HEAD AND SILL. 9/16" THK GLASS	ALUM. 6005-T5	
27	3070-15	GLAZING ADAPTOR FOR MULLION AND HORIZONTAL. 9/16" THK GLASS	ALUM. 6005-T5	
28	3070-16	GLAZING ADAPTOR FOR JAMB. 9/16" THK GLASS	ALUM. 6063-T6	
FLORIDA APPROVAL: FL#22207.2 YOUNG WANG P.E. FL #55983 C.A.N. 55987 December 27th, 2023 Rev. No. R2 Date 12.11.2023 Drawn By James FBC 2023 Description Drawn Date 12.11.2023 Scale AS SHOWN DRAWING NO. AD17-16 BOM Sheet No. 14 OF 15				

MCY ENGINEERING, INC.

GLAZING CONSULTANTS



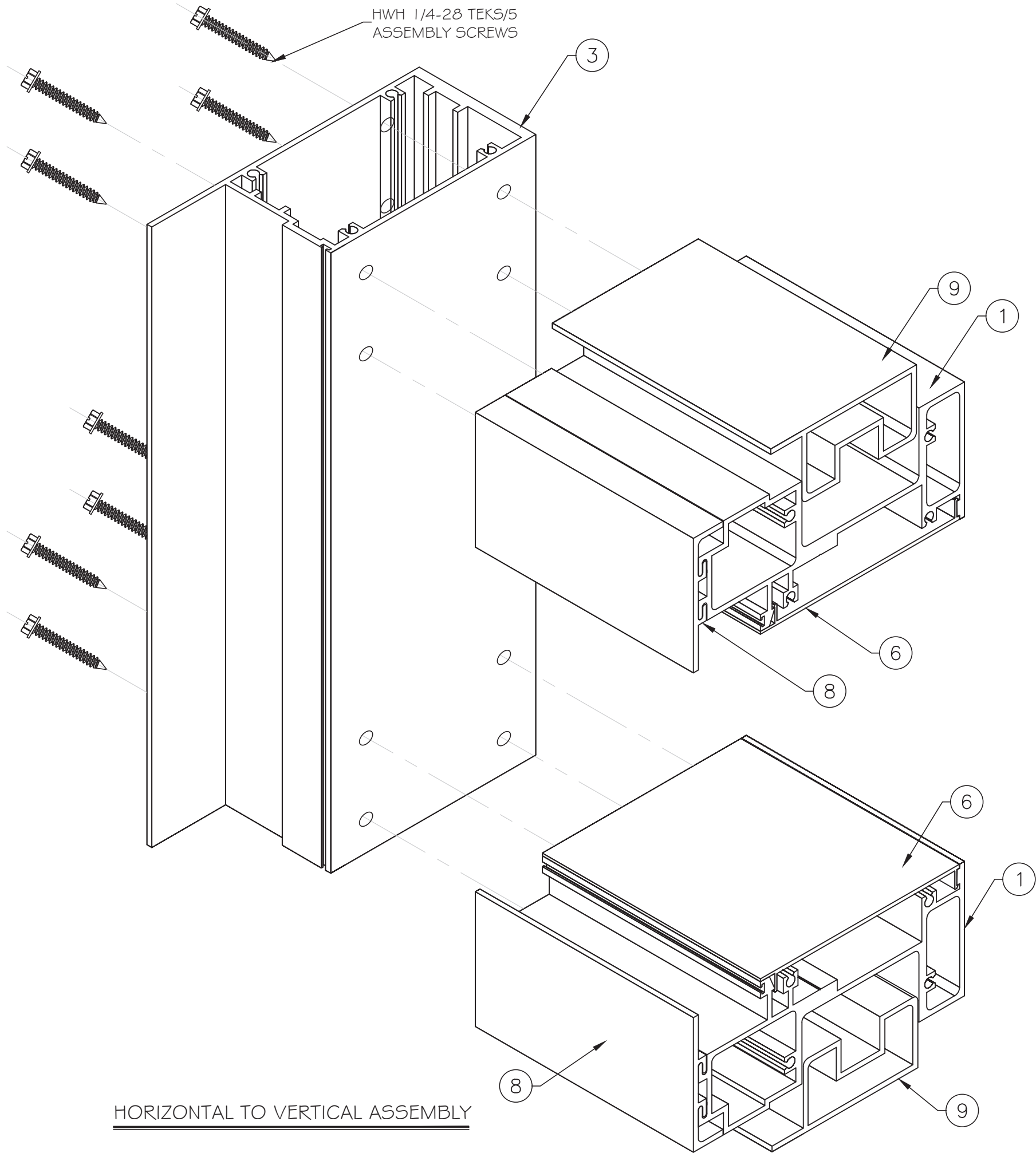
12781 MIRAMAR PKWY, STE 301 F: 305.588.5224
MIRAMAR, FL 33027 P: 305.271.0117

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SERIES 3070 ALUMINUM WINDOW WALL (LMI & SMI)

CONTINENTAL GLASS SYSTEMS, INC.

325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103



HORIZONTAL TO VERTICAL ASSEMBLY

FLORIDA APPROVAL:
FL#22207.2

YOUNG WANG
P.E.
FLORIDA REGISTRATION
FL #55983
C.A. No. 26877

December 27th, 2023

MCY

ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY, STE 301
MIRAMAR, FL 33027

F: 305.588.5224
P: 305.271.0117

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CONTINENTAL GLASS SYSTEMS, INC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

Rev. No.	Date	Drawn By	Description
R2	12.11.2023	James	FBC 2023

Drawn Date
12.11.2023

Scale
AS SHOWN

DRAWING NO.
AD17-16

BOM

Sheet No.
15 OF 15