

CONTINENTAL GLASS SYSTEMS, LLC.
SERIES 3100 STRUCTURAL GLAZED WINDOW WALL SYSTEMS
LARGE & SMALL MISSILE IMPACT

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 (LEVEL D) & SMALL MISSILE IMPACT.
UP TO 30 FT OF GRADE, USE LARGE MISSILE IMPACT SYSTEMS.
ABOVE 30 FT OF GRADE, USE SMALL MISSILE IMPACT SYSTEMS.
- 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 FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURAL AND/ OR WOOD STRUCTURAL 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.
- 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.

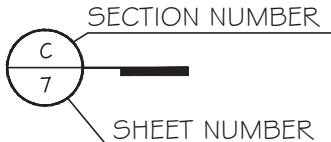
INSTRUCTIONS:

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 SHEET G1 FOR GLASS OPTIONS & CAPACITY OF STRUCTURAL SILICONE BASE ON SILICONE WIDTH.
- STEP 3: SEE SHEET E1 OR E2 FOR APPROVED WINDOW WALL WITH REINFORCE OR UNREINFORCED MULLION OPTIONS.
- STEP 4: SEE SHEET A1 FOR ANCHOR OPTIONS & CAPACITIES.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6: FOR CONDITION DIFFERENT TO APPROVAL SHOWS, TO BE VERIFIED BY ENGINEER BASED ON JOB CONDITION AS PER BUILDING CODE.

ABBREVIATIONS AND SYMBOLS

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

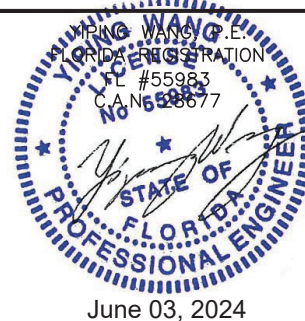


LIMITATIONS OF USE

- 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 #29215.2



SERIES 3100 STRUCTURAL GLAZED WINDOW WALL SYSTEMS (LMI & SMI)

CONTINENTAL GLASS SYSTEMS LLC.

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

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

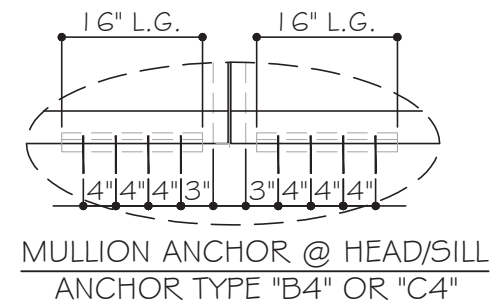
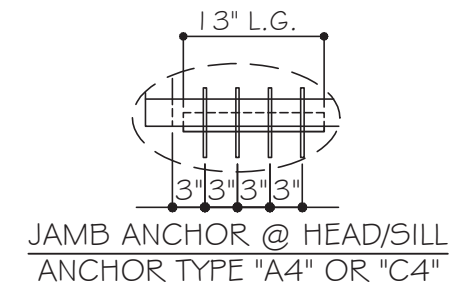
2781 MIRAMAR PKWY.STE.301 P:305.271.0117
MIRAMAR, FL 33027

www.MCYEngineering.com MCY@MCYENGINEERING.COM

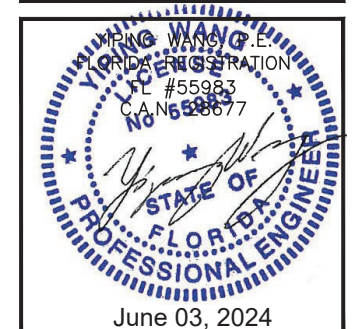


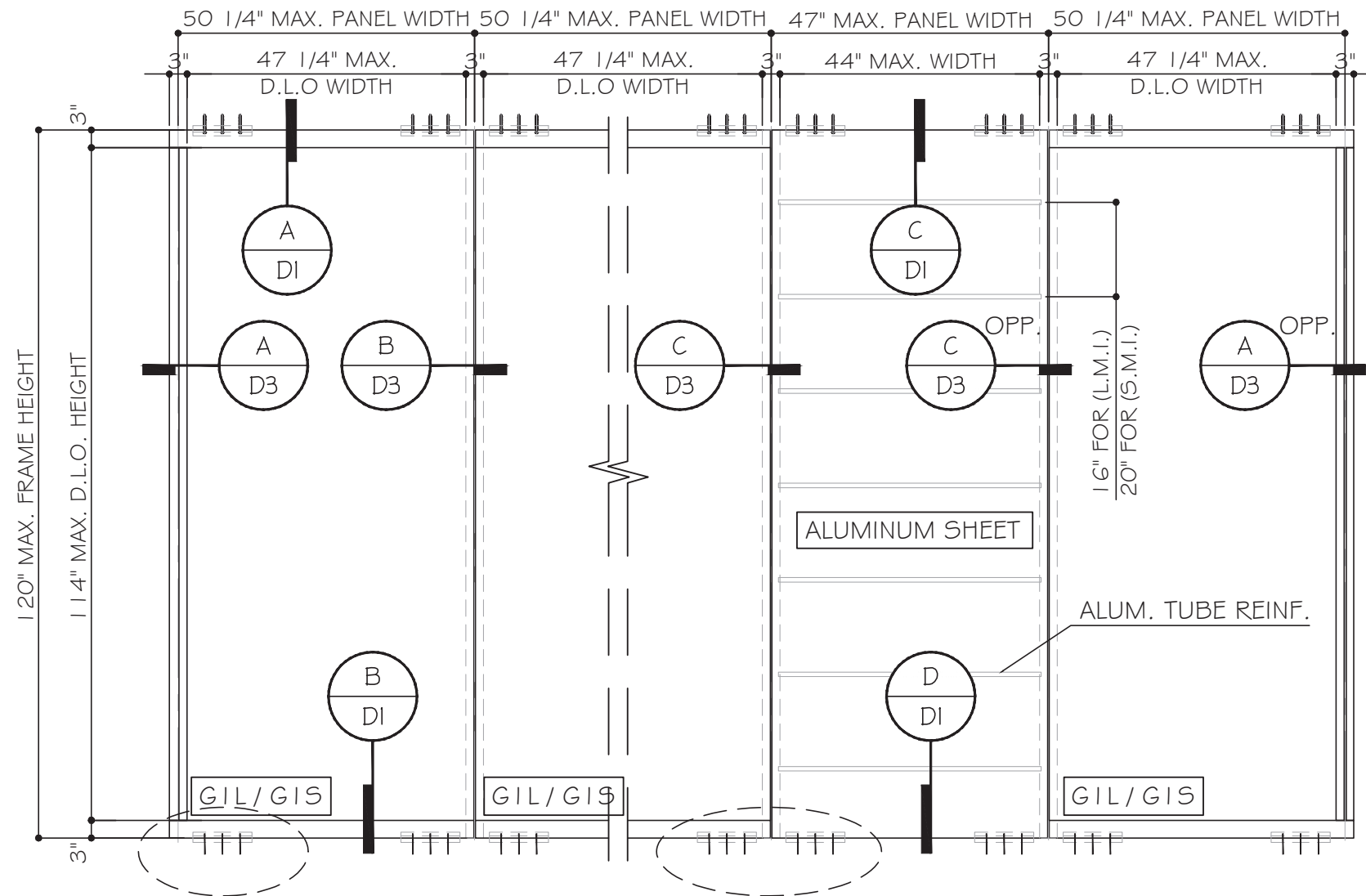
DESIGN LOAD CAPACITY - PSF				
MAX. DIMENSIONS		GLASS TYPE	DESIGN LOAD	IMPACT
PANEL WIDTH	FRAME HEIGHT			
in	in	-	PSF	-
50 1/4	120	G I L	+/- 125	LMI
50 1/4	120	G I S	+/- 125	SMI
47	120	ALUM. SHEET	+/- 125	LMI & SMI

NOTE: 1. ALUM SHEET IS 5052 H32 1/8" THK ALUMINUM SHEET.
2. DESIGN LOAD FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC.
3. SEE SHEET A1 FOR ANCHOR TYPES AND ANCHOR CAPACITIES.



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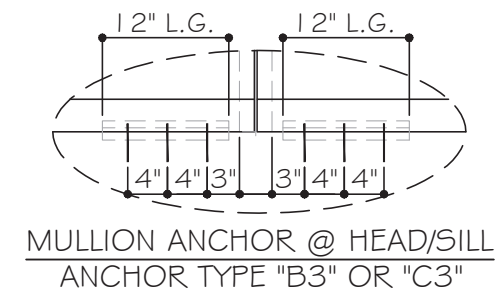
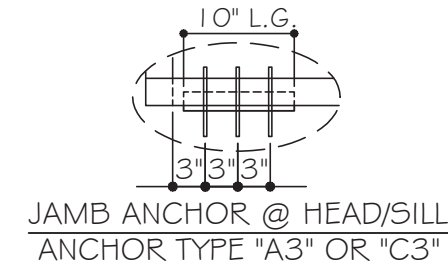




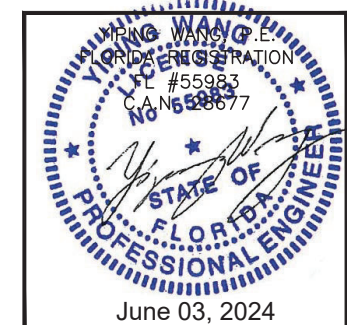
TYPICAL EXTERIOR ELEVATIONS
UNREINFORCED MULLION

DESIGN LOAD CAPACITY - PSF				
MAX. DIMENSIONS		GLASS TYPE	DESIGN LOAD	IMPACT
PANEL WIDTH	FRAME HEIGHT			
in	in	-	PSF	-
50 1/4	120	GIL	+/-80	LMI
50 1/4	120	GIS	+/-80	SMI
47	120	ALUM. SHEET	+/-80	LMI & SMI

- NOTE: 1. ALUM SHEET IS 5052 H32 1/8" THK ALUMINUM SHEET.
2. DESIGN LOAD FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC.
3. SEE SHEET A1 FOR ANCHOR TYPES AND ANCHOR CAPACITIES.



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USE FOR UP TO 30 FT FROM GROUND.

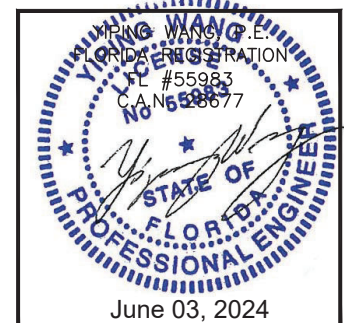


NOTE: S.W. - SILICONE WIDTH.

USE 30FT ABOVE GROUND LEVEL.



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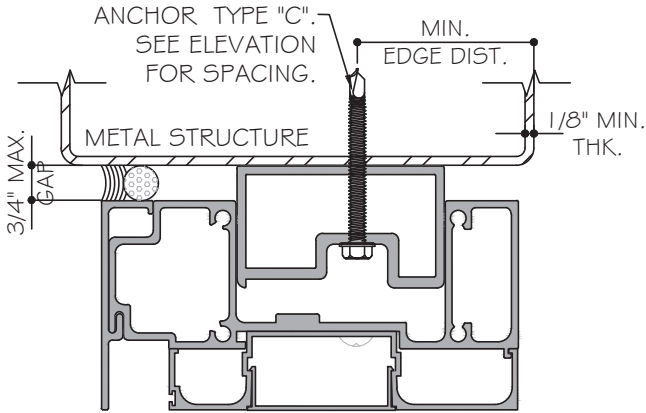
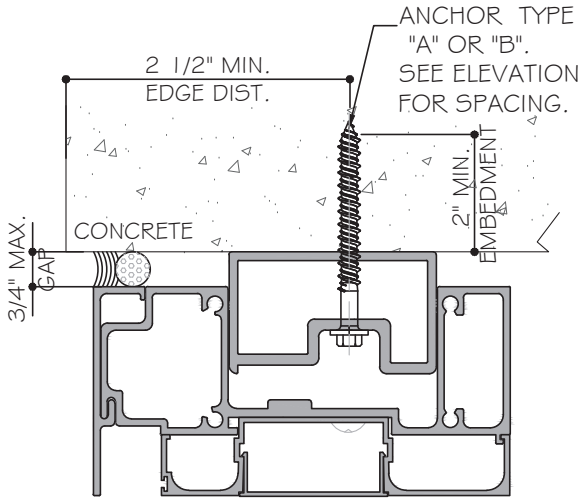
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ANCHOR TYPES:

TYPE "A": 5/16" DIA. ULTRACON ($F_u=177$ KSI, $F_y=155$ KSI)
2" MIN. EMBED INTO $f_c'=4$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "B": 5/16" DIA. ULTRACON ($F_u=177$ KSI, $F_y=155$ KSI)
2" MIN. EMBED INTO $f_c'=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 4" MIN. O.C.

TYPE "C": 5/16" SMS OR SELF-DRILLING SCREW, GRADE 5
($F_u=120$ KSI, $F_y=92$ KSI)
INTO 1/8" THK. MIN. STEEL STRUCTURE (A36 MIN.)
OR 1/4" THK MIN. ALUM. ALLOY (6063-T5 MIN.)



ANCHOR CAPACITIES (+/- PSF)					
TRIB. WIDTH	FRAME WIDTH	ANCHOR TYPES			
		A4	A4	B4/C4	A3/B3/C3
INCH	INCH	1/2" GAP	3/4" GAP		
50.25	120	125	110.8	125.0	80.0
50.25	120	125	110.8	125.0	80.0
48.625	120	125	114.5	125.0	80.0

FOR ANCHOR TYPE A, B & C, CAPACITY IN CHART IS BASED ON
HEAD/SILL TO SUBSTRATE WITH 1/2" GAP OR 3/4" GAP.

FLORIDA APPROVAL:
FL #29215.2

YOUNG WANG
P.E.
FLORIDA REGISTRATION
FL #55983
CA No 559877

June 03, 2024

FLORIDA
STATE OF
PROFESSIONAL ENGINEER

Drawn Date
05.28.2024

Scale
AS SHOWN

DRAWING NO.
AD24-14

Sheet No.
05 OF 11

SERIES 3100 STRUCTURAL GLAZED WINDOW WALL SYSTEMS (LMI & SMI)

CONTINENTAL GLASS SYSTEMS LLC.

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

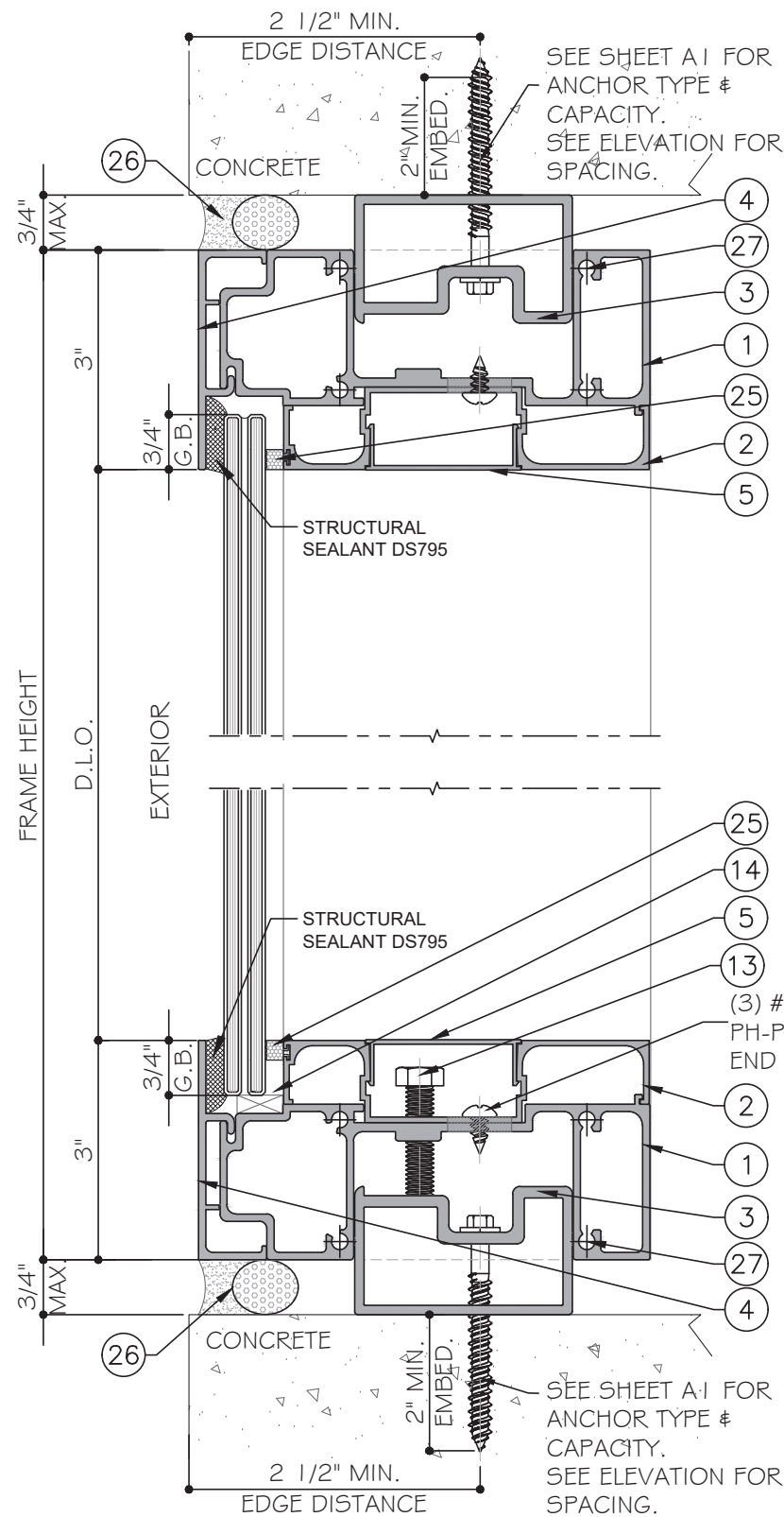
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

M C Y

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

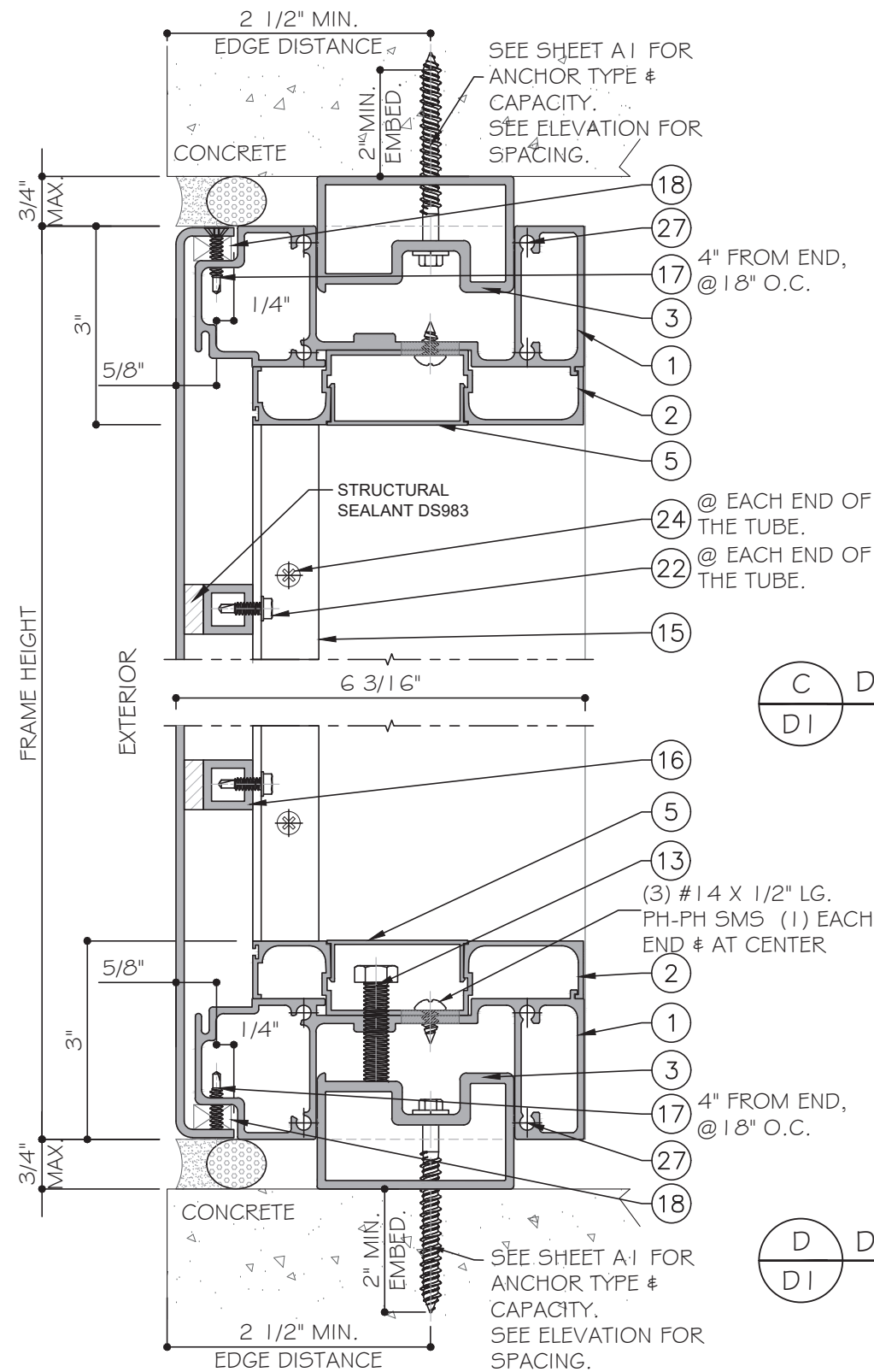
www.MCYEngineering.com

MCY@MCYENGINEERING.COM



A
DI
DETAIL

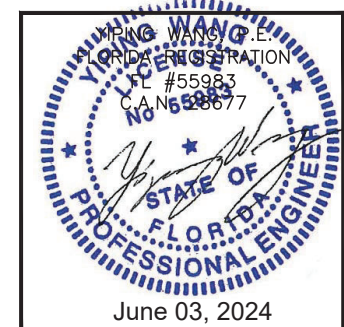
B
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DETAIL

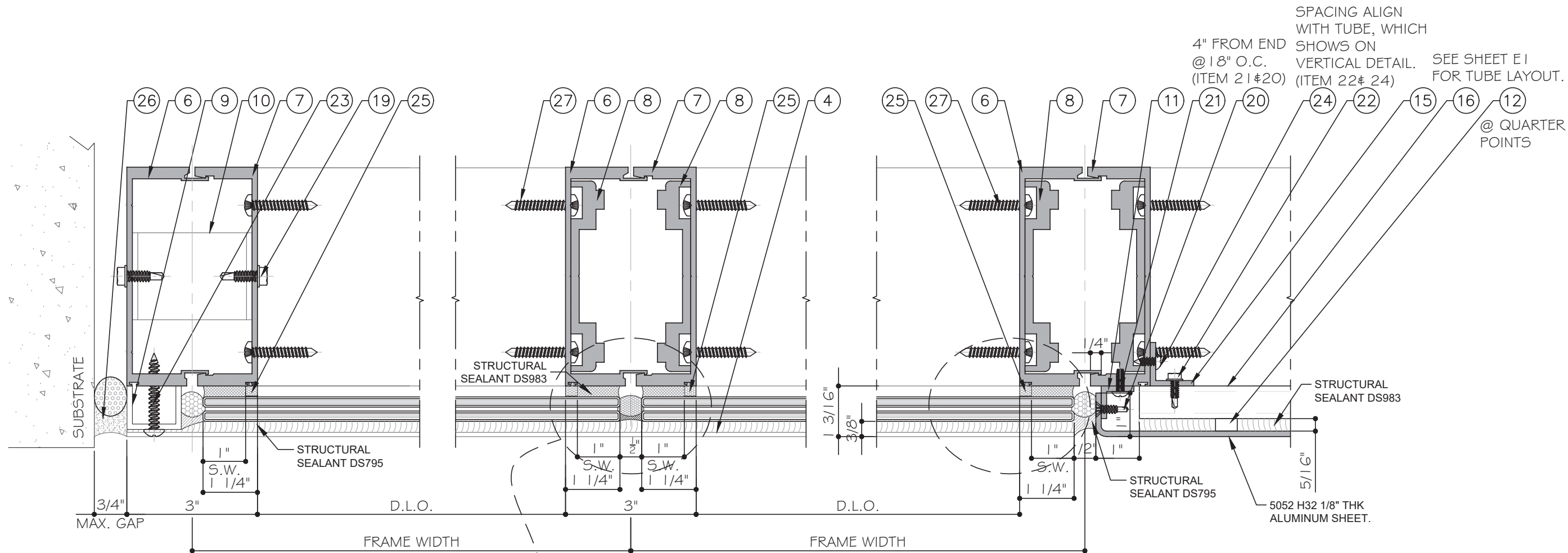


C
DI
DETAIL

D
DI
DETAIL

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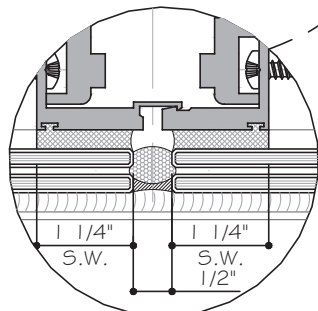
SPACING ALIGN WITH TUBE, WHICH SHOWS ON VERTICAL DETAIL. SEE SHEET E1 FOR TUBE LAYOUT.

4" FROM END @ 18" O.C. (ITEM 21#20) (ITEM 22# 24)

@ QUARTER POINTS

GAP CHART		
FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	7/16"	3/4"
96"	1/2"	3/4"
108"	9/16"	3/4"
120"	5/8"	3/4"

A
D2
DETAIL

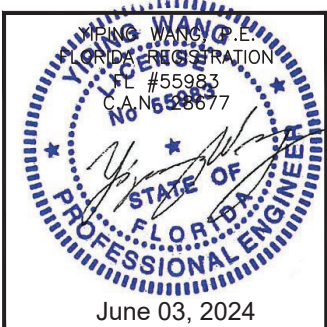


SILICONE WIDTH OPTION.
SEE SHEET G1 FOR CAPACITY.

B
D2
DETAIL

C
D2
DETAIL

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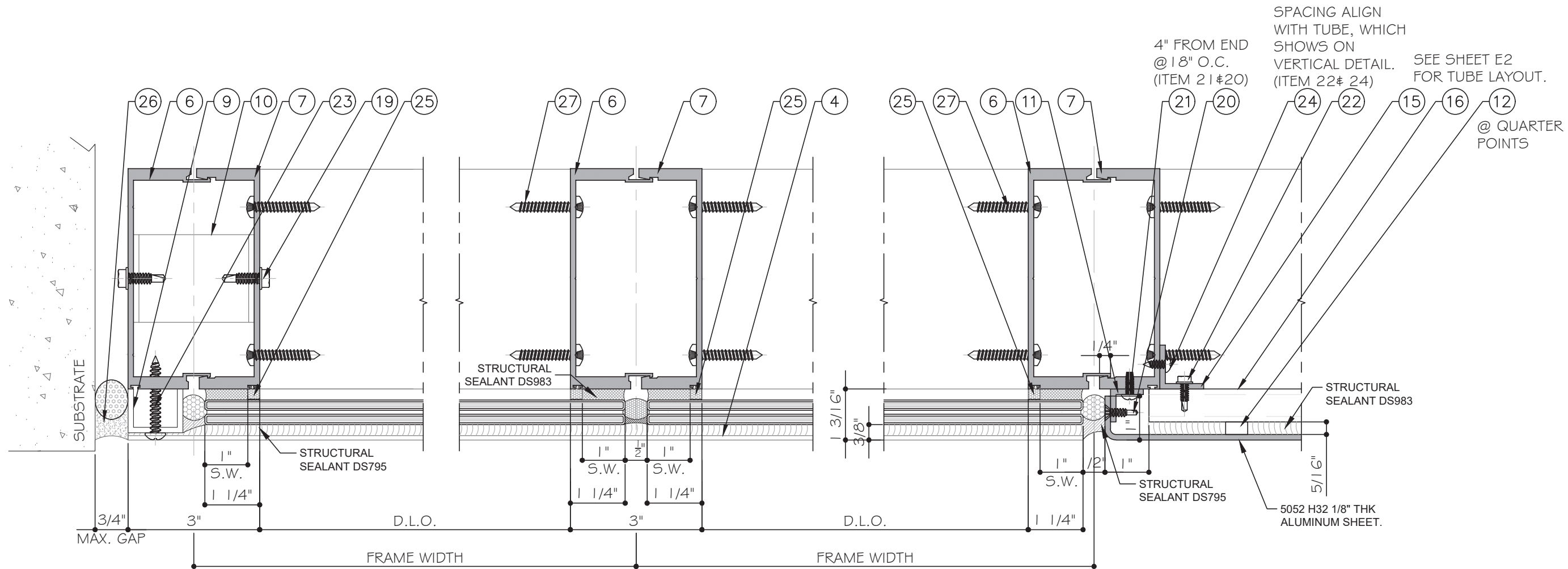
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GAP CHART		
FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	7/16"	3/4"
96"	1/2"	3/4"
108"	9/16"	3/4"
120"	5/8"	3/4"

A
D3

DETAIL

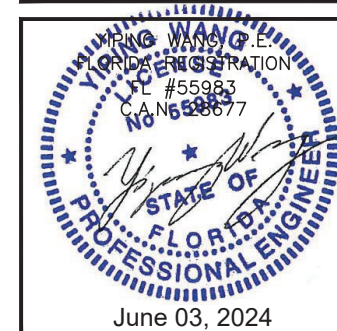
B
D3

DETAIL

C
D3

DETAIL

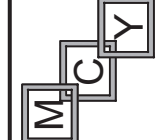
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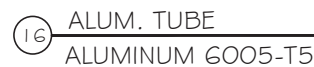
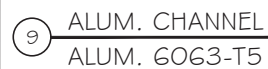


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GLAZING CONSULTANTS

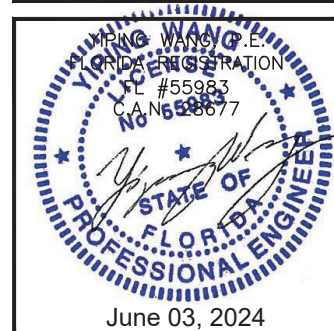
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R1	05.28.2024	James	NEW
D3			
08 OF 11			



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3325 WEST 74TH PLACE HIALEAH, FL. 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

MCY ENGINEERING, INC.

**ENGINEERING,
GLAZING CONSULTANTS**

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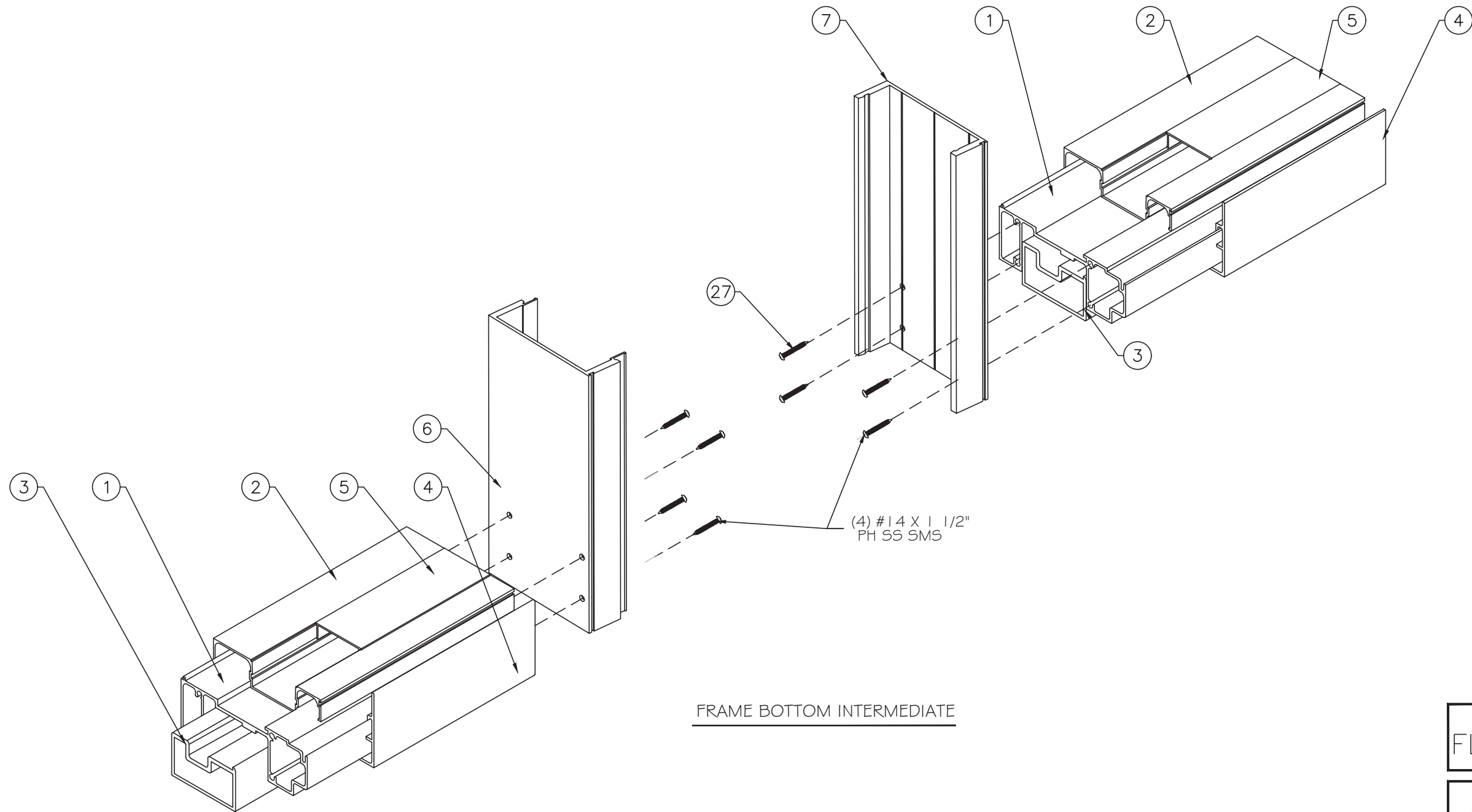
BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	3000-08	TOP AND BOTTOM	ALUM.6005-T5	-
2	3000-03	BEAD	ALUM.6005-T5	-
3	3000-12	ANCHOR TUBE	ALUM.6005-T5	-
4	3100-22	GLASS STOP	ALUM.6063-T6	-
5	3000-07	COVER	ALUM.6005-T5	-
6	3000-19	MALE MULLION	ALUM.6005-T5	-
7	3000-20	FEMALE MULLION	ALUM.6005-T5	-
8	3000-21	REINFORCING	ALUM.6005-T5	-
9	-	ALUM. CHANNEL	ALUMINUM.	-
10	-	ALUM. CHANNEL	ALUMINUM.	-
11	-	3/4" X 3/4" X 1/8" ALUM. ANGLE	ALUM.6005-T5	-
12	-	V2100 SERIES NORTON TAPE DOUBLE FACE, 0.5" X 0.25"	-	-
13	-	3/8"-16X1 3/4" (1) AT EA. END OF ANC.TUBE	GR.2 HEX HEAD MS	-
14	-	1/4"X3/4"X4" LG. SETTING BLOCK	NEOPRENE	DUROMETER 70-90 OR BETTER, SHORE 'A' OR EQUAL
15	-	1" X 1" X 1/8" ALUM. ANGLE.	ALUM.6005-T5	-
16	-	3/4" X 3/4" X 1/8" ALUM. TUBE.	ALUM.6005-T5	-
17	-	#10-16 X1" LG SDS PHL FH SMS	SS SMS	-
18	-	SETTING BLOCK 3/8" X 1 1/16" X4" LONG NEOPRENE 80-90 DUROMETER SHORE A OR EQUAL	NEOPRENE	-
19	-	#14-14 X 3/4" LG SDS PHL HH SMS	SS SMS	-
20	-	#10-16 X 3/4" LG SDS PHL FH SMS	SS SMS	-
21	-	#12-24 X 1/2" LG PHL PH THREAD CUTTING POINT "F"	SS SMS	-
22	-	#10-16 X 1/2" LG SDS HH SMS	SS SMS	-
23	-	#14 X 1 3/4" LG PHL PH SMS	SS SMS	-
24	-	#10-12 X 1/2" LG PHL PH SMS	SS SMS	-
25	CGS-G039	CGS-039 (GLASS SPACER)	VINYL	-
26	-	BACK ROD AND PERIMETER SEALANT DC 790/ DC795/ GE SCS 2000/ TREMCO SPECTRUM2	SILICONE	-
27	-	#14-14 X1 1/2" LG PH SS SMS ASSEMBLY SCREW	SS SMS	-

YIPING WANG, P.E.
LICENSED PROFESSIONAL ENGINEER
FL #55983
CAN 128677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 03, 2024

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					NEW
R1	05.28.2024	James			
Rev. No.	Date	Drawn By	Description		
Drawn Date 05.28.2024		Scale AS SHOWN			
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Sheet No. 10 OF 11					



FRAME BOTTOM INTERMEDIATE

FLORIDA APPROVAL:
FL #29215.2

YOUNG WANG
Professional Engineer
FLORIDA REGISTRATION
FL #55983
C.A. No. 55987

June 03, 2024

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Professional Engineer
FLORIDA REGISTRATION
FL #55983
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June 03, 2024

Drawing No.		Scale	
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