

TECNOGLASS, LLC
SERIE 7000 ALUMINUM CURTAIN WALL
WITH INSULATED LAMINATED GLASS OPTION
SMALL MISSILE IMPACT

CURTAIN WALL SYSTEM RATED FOR SMALL MISSILE IMPACT.

SERIES 7000 CURTAIN WALL

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

SMALL MISSILE IMPACT CURTAIN WALL SYSTEM TO BE USED AT ELEVATIONS 30'-0" ABOVE GRADE LEVEL.

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH FBC APPROVED SMALL MISSILE IMPACT DOORS. LOWER DESIGN PRESSURE FROM CURTAIN WALL OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS SYSTEM IS 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 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) 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 7-16/ 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.

SEALANT:

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

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1:** DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ ASCE 7-22 STANDARD.
- STEP 2:** SEE SHEET 03 FOR APPROVED GLASS TYPES AND DESIGN LOAD CAPACITIES BASED ON APPLICABLE WIND DURATION AND SSG OPTION DESIGN LOAD CAPACITY DUE TO STRUCTURAL SILICONE.
- STEP 3:** SEE SHEET 03A & 03B FOR SINGLE SPAN ELEVATION AND CAPACITY
- STEP 4:** SEE TYPICAL ELEVATION OF CURTAIN WALL ON SHEET 04 & 05.
- STEP 5:** CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT ON SHEET 06 - 08C. THE CAPACITY SHOULD EXCEED THE JOB REQUIRED DESIGN LOAD. MULLION TYPE REFER TO SHEET 08A TO 08C.
- STEP 6:** ANCHOR OPTION FOR TYPICAL HEAD & SILL SEE SHEET 15-17A, TO COVER ALL CONDITIONS. FOR INTERMEDIATE ANCHORS SEE DETAIL ON SHEET 27 TO 37.
- STEP 7:** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4, 5 AND 6 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 8:** FOR ANCHOR CONDITION IN JOB EXCEEDS THE APPROVED LOAD, TO BE ENGINEERED SEPARATELY

ABBREVIATIONS AND SYMBOLS

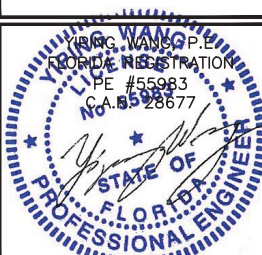
D.L.O. - DAYLIGHT OPENING	- CENTER LINE
E.J. - EXPANSION JOINT	H.S. - HEAT STRENGTHENED
F.H. - FRAME HEIGHT	SSG - STRUCTURAL SILICONE GLAZED
F.W. - FRAME WIDTH	TEMP. - TEMPERED
LG. - LONG	O.C. - ON CENTER
STL. - STEEL	▲ - DEAD LOAD+WIN DLOAD ANCHOR
ALUM. - ALUMINUM	△ - WINDLOAD ANCHOR
MULL. - MULLION	I.S. - INSIDE
HORIZ. - HORIZONTAL	WL - WIND LOAD
W/ - WITH	DL - DEAD LOAD
W/O - WITHOUT	Pd - DESIGN LOAD (PSF)
S.S. - STAINLESS STEEL	
M.S. - MULLION SPACING	
S.W. -SILOCONE WIDTH	
G.B. - GLASS BITE	

SECTION NUMBER



SHEET NUMBER

FLORIDA APPROVAL:
FL#28879.2



September 19th, 2023

REVISIONS	
NO.	DATE
R2	09.19.2023
	FBC 2023

MCY

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DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-08	
SHEET 01 OF 38	

SERIES 7000 CURTAIN WALL (SMI)

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38	BILL OF MATERIALS

MATERIALS

A. ALUMINUM:	
1-	ALL ALUMINUM EXTRUSION SHALL BE 6063-T5, 6063-T6 AND 6061-T6 (OR EQUIVALENT) AS SHOWN IN BILL OF MATERIAL
B. STEEL:	
1-	ALL STEEL FOR CURTAIN WALL SHALL BE ASTM A36 OR A50 AS PER BILL OF MATERIALS. Fy=36ksi OR Fy=50ksi
2-	ALL STEEL WELDS TO BE ELECTRODE E70
C. SEALANT:	
1-	APPLY GE SSG 4600 ULTRAGLAZE OR DOW 983 TO SHOP APPLIED METAL TO METAL JOINERY (FRAME ASSEMBLY).
2-	APPLY DOW CORNING 90 OR GE ULTRA 2700 TO EXTERIOR PERIMETER SEALANT AND FASTENER SEALANT.
3-	THE GLAZING SEALANT SHALL BE GE SSG 4600 ULTRAGLAZE OR DOW 983.
4-	ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT.
D. GLASS:	
GL-2	1 3/8" INSULATED LAMINATED GLASS 1/4" TEMPERED GLASS, 7/16" AIR SPACE, SPACER BY LINGEMANN GmbH, 5/16" TEMPERED GLASS, 0.06" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC 5/16" TEMPERED GLASS
GL-3	1 1/4" INSULATED LAMINATED GLASS 1/4" TEMPERED GLASS, 7/16" AIR SPACE, SPACER BY LINGEMANN GmbH, 1/4" TEMPERED GLASS, 0.06" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC 1/4" TEMPERED GLASS
3-	GLASS CAPACITY FOR A GIVEN AREA USE CHART ON SHEET 05
4-	SETTING BLOCK AT 1/4" POINT
E. FASTENERS:	
1-	ALL FRAME ASSEMBLY SCREWS SHALL BE: A. 300 SERIES COLD-ROLLED STAINLESS STEEL Fu= 100ksi, Fy= 65ksi B. HALFEN T-BOLT M20X80mm GV-S GRADE 8.8 (ASTM F 568 CLASS 8.8 3/4" X 3-1/4"; Fy=96.7 KSI, Fu=120.35 KSI)
F.	SHIM AT SILL TO BE LOAD BEARING SHIM.

GENERAL NOTES

CURTAIN WALL SYSTEM IS RATED FOR SMALL MISSILE IMPACT, THAT CAN BE USED AT ELEVATIONS ABOVE 30'-0" OF GRADE LEVEL WITHOUT HURRICANE PROTECTIVE SHUTTERS. SHUTTERS ARE REQUIRED WHEN PRODUCT USED FOR ELEVATIONS BELOW 30'-0" ABOVE GRADE LEVEL

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE(2020) /8TH EDITION FLORIDA BUILDING CODE(2023) /INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ)

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 CURRENT FLORIDA BUILDING CODE INCLUDING ADAPTED STANDARDS AS APPLICABLE.

EACH MEMBER SHALL BE CONTINUOUS UNLESS OTHERWISE SPECIFIED.

INSTRUCTIONS:

STEP #1:
DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, AND WIND ZONE USING APPLICABLE ASCE 7 STANDARDS OR WIND TUNNEL REPORTS

STEP #2:
SEE CHART ON SHEET 5 OF 38 FOR GLASS CAPACITY OF DESIGNED GLASS AREA. AND CHOOSE SILICONE WIDTH TO MEET DESIGN LOAD.

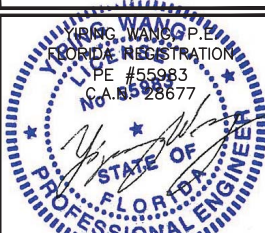
STEP #3:
FOR MULLION, JAMB AND CORNER MULLION SEE SECTIONS ON SHEET 6 & 7 FOR A GIVEN SPAN V.S. REINFORCEMENT AND DESIGN LOAD.

STEP #4:
BASED ON PROJECT SUBSTRATE, MULLION SPAN, SPACING AND DESIGN LOADS, CHOOSE ANCHOR TYPE FOR HEAD, SILL AND INTERMEDIATE ANCHORS FROM SHEET 15 THRU SHEET 37

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.

FLORIDA APPROVAL:
FL#28879.2



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R2	09.19.2023 FBC 2023

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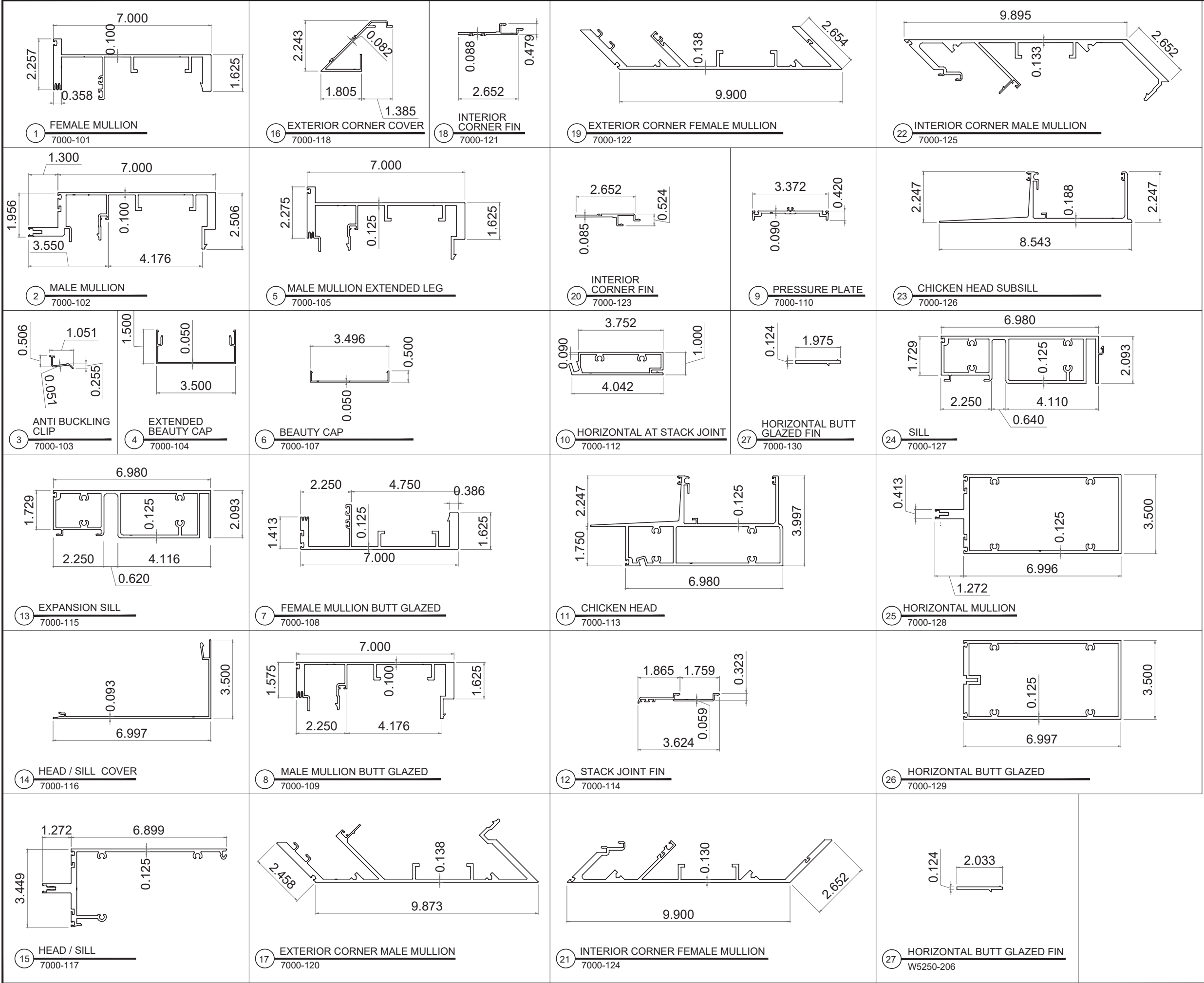
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DATE	09.19.2023
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DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08

SHEET 01A OF 38



FLORIDA APPROVAL:
FL#28879.2

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FLORIDA REGISTRATION
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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SHEET	02 OF 38
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29 CRESCENT MALE MULLION
7000-132

35 SLAB ANCHOR
7000-139

30 HEAD BUTT GLAZED
7000-133

31 STACK JOINT COVER
7000-134

32 CHICKEN HEAD WITHOUT COVER
7000-135

33 SILL COVER
7000-136

34 SILL COVER BUNGALOW
7000-137

36 SERRATE WASHER
7000-140

37 MULLION ANCHOR HOOK
7000-141

38 MULLION ANCHOR FIST
7000-142

39 SPLICE AS-1
7000-143

40 SHEAR ANCHOR PLATE
7000-144

41 INSIDE CORNER ANCHOR FIST
7000-145

42 OUTSIDE CORNER ANCHOR FIST
7000-146

43 RAILING COVER
7000-149

44 HORIZONTAL RAILING
7000-150

28 CRESCENT FEMALE MULLION
7000-131

77 ST-1 (A50)
3/4" STEEL REINFORCEMENT

78 ST-2 (A36)
1/4" STEEL REINFORCEMENT

79 ST-4 (A50)
1/2" STEEL REINFORCEMENT

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DRAWING NO.

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SHEET 02A0F 38

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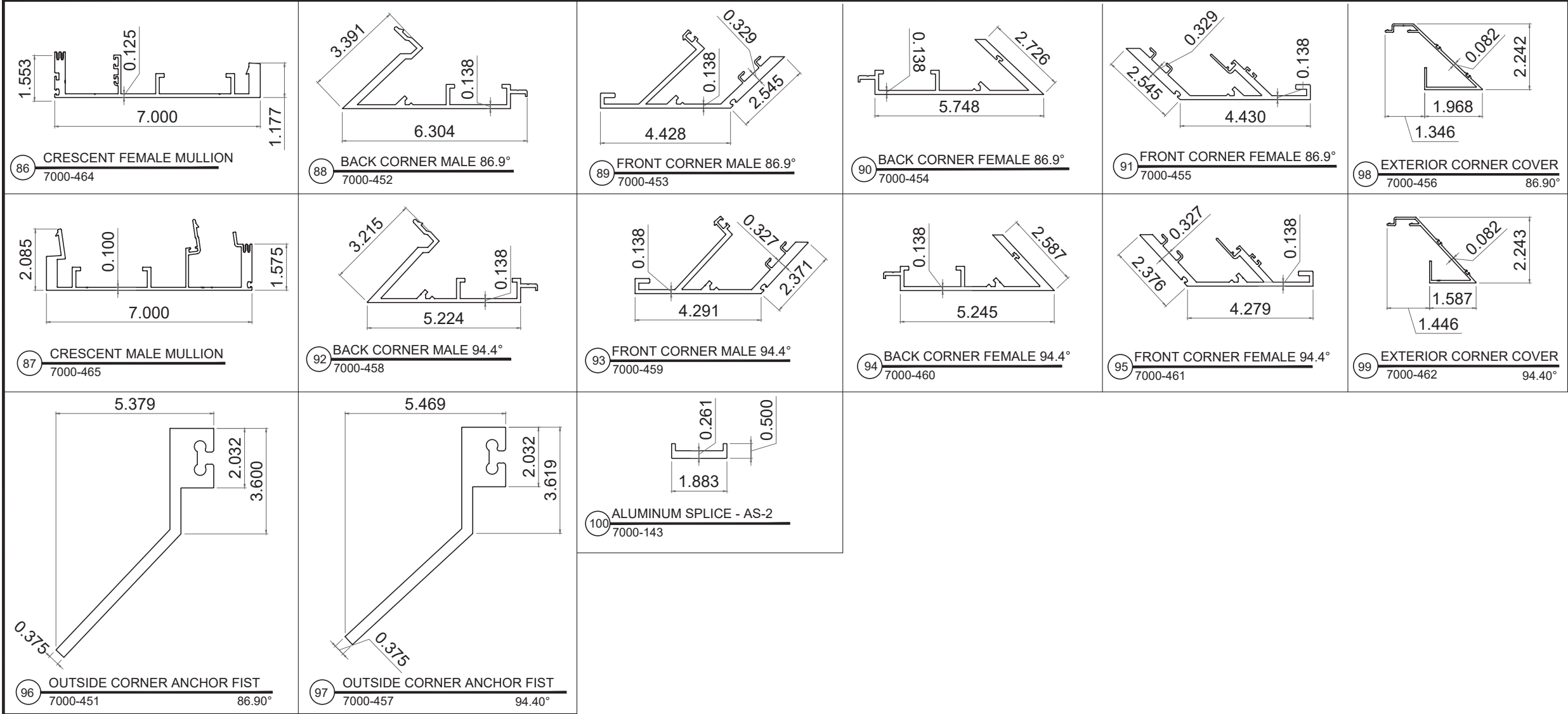
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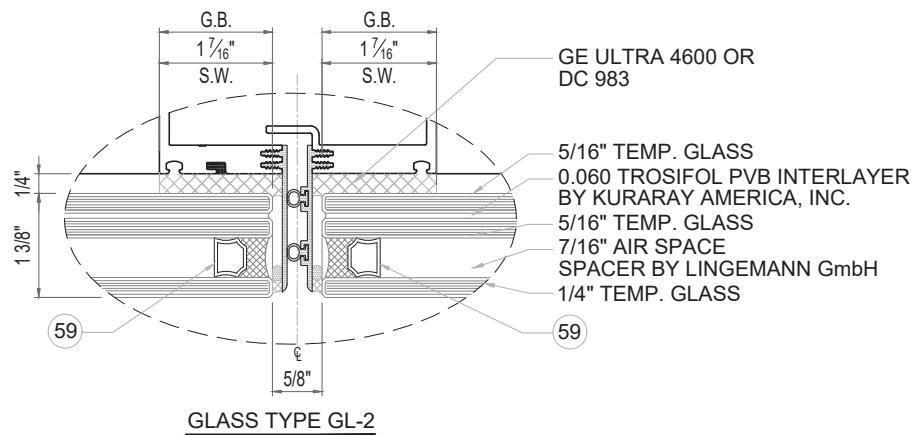
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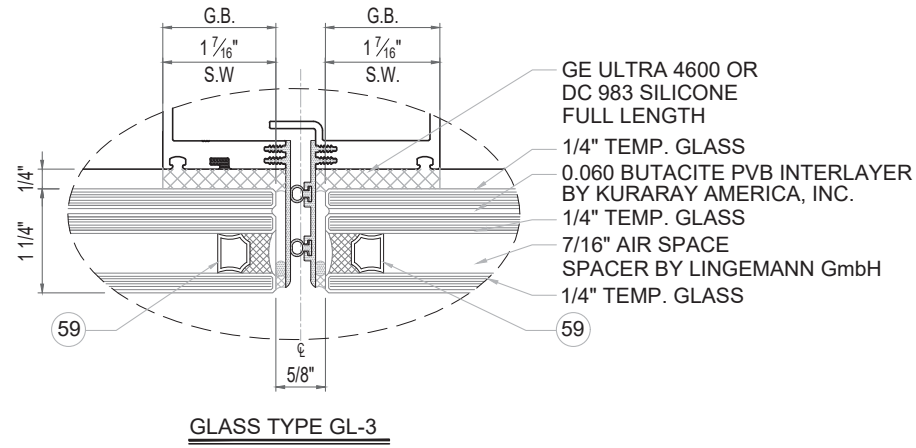
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SILICONE WIDTH CAPACITY CHART

DESIGN LOAD Pd (PSF) DUE TO SILICONE	
MULLION SPACING (W)	MIN. SILICONE WIDTH
	1.4375 "
5'-0"	138 PSF
4'-6"	140 PSF
4'-0"	140 PSF

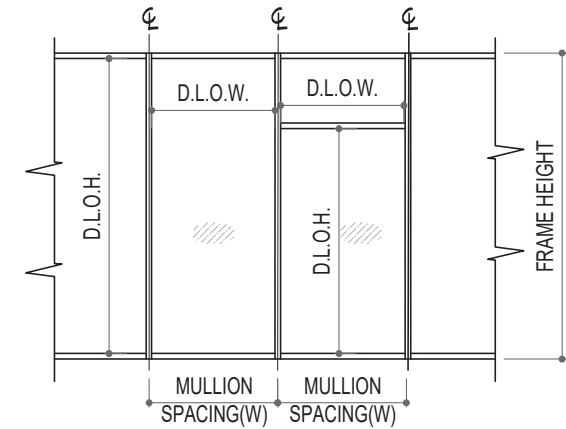


GLASS "GL-2 & 3" CAPACITY (PSF.)

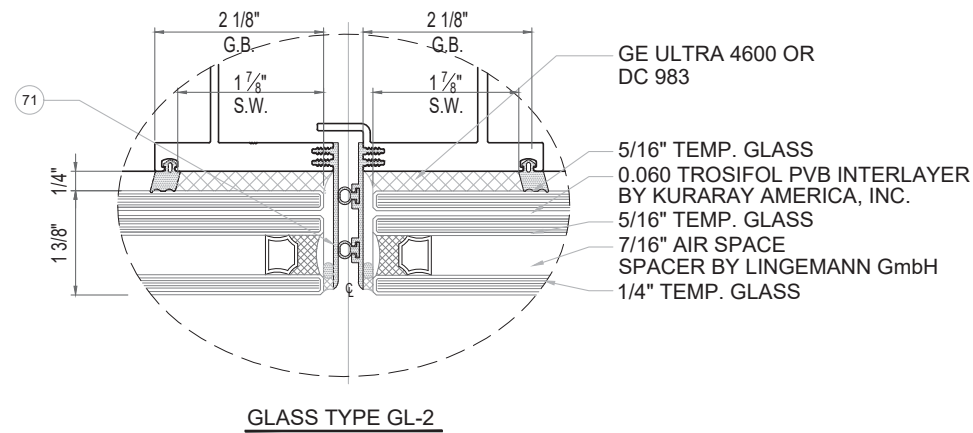
GLASS AREA (FT²)	
45.9	+ 100 PSF - 140 PSF

**GLASS AREA = D.L.O. WIDTH * D.L.O. HEIGHT

GLASS CAPACITY BASED ON ASTM E 1300-09

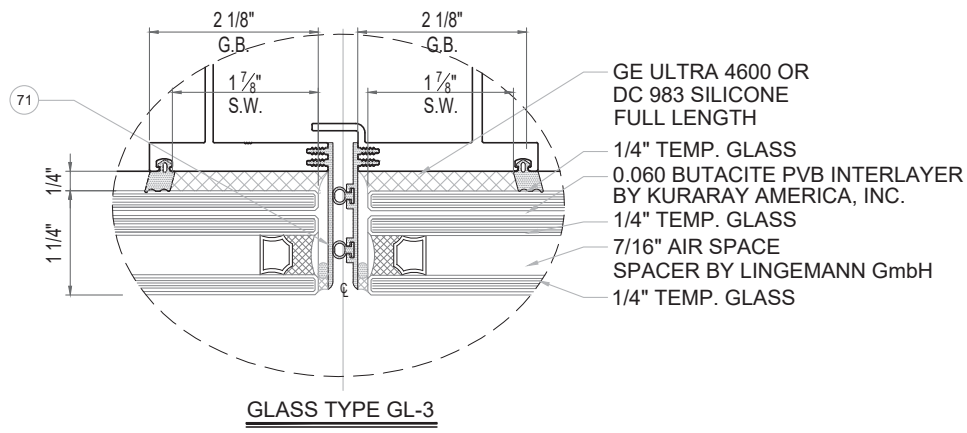


**GLASS AREA = D.L.O. WIDTH X D.L.O. HEIGHT
D.L.O.W. = W - 3 1/2"



SILICONE WIDTH CAPACITY CHART

DESIGN LOAD Pd (PSF) DUE TO SILICONE	
MULLION SPACING (W)	MIN. SILICONE WIDTH
	1.875 "
5'-0"	180 PSF
4'-6"	187 PSF
4'-0"	187 PSF



	GL-2	GL-3
MAX. GLASS AREA **	50.2 (FT²)	45.3 (FT²)
MAX. DESIGN LOAD (PSF)	+ 100 PSF - 187 PSF	+ 100 PSF - 187 PSF

**GLASS AREA = D.L.O. WIDTH * D.L.O. HEIGHT

GLASS CAPACITY BASED ON ASTM E 1300-09

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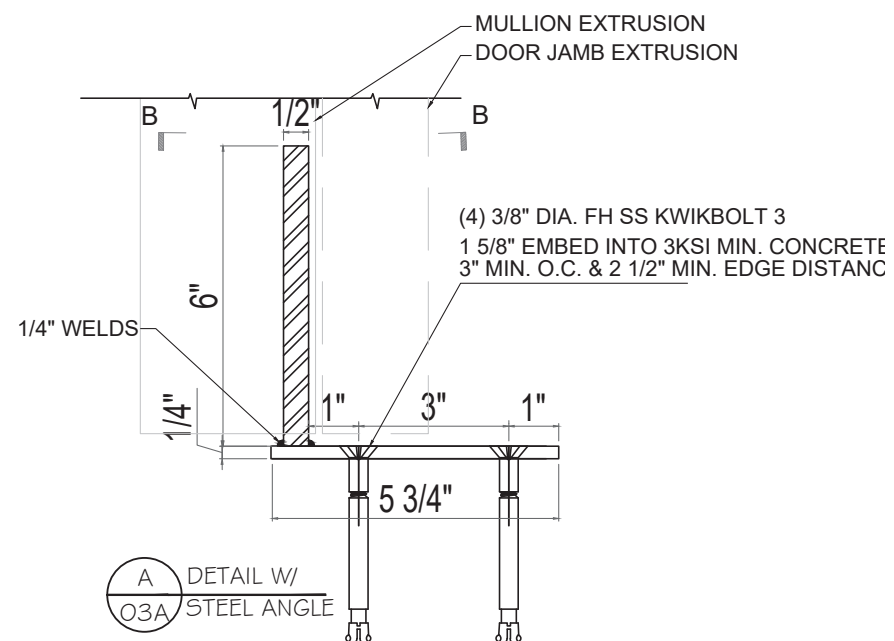
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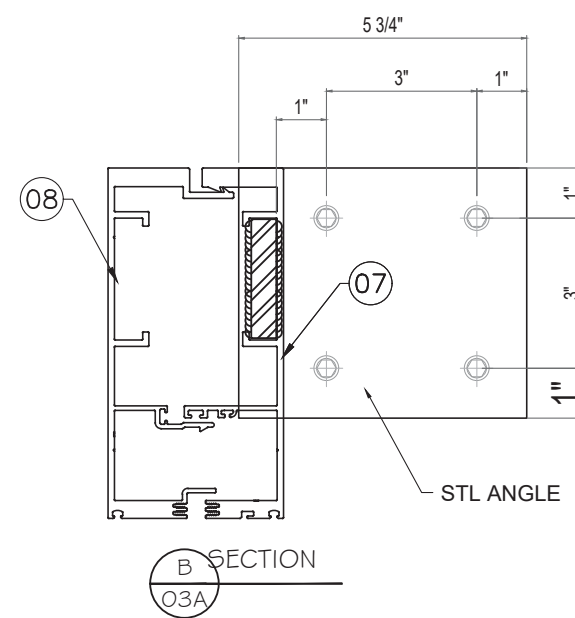
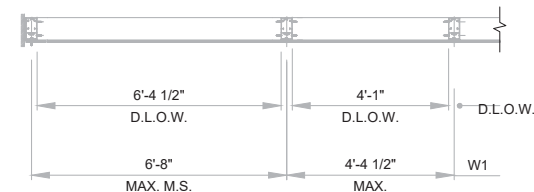
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DESIGN LOAD (PSF)	
POSITIVE	NEGATIVE
PSF	PSF
+100	-132



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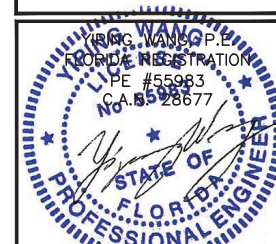
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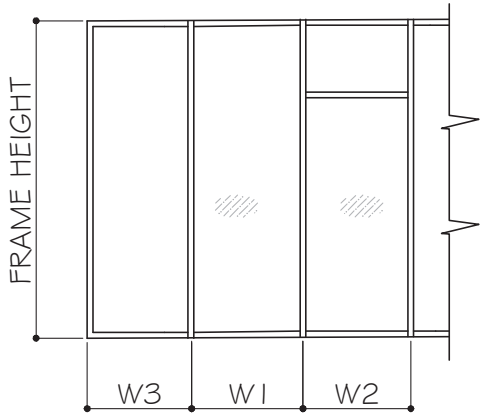
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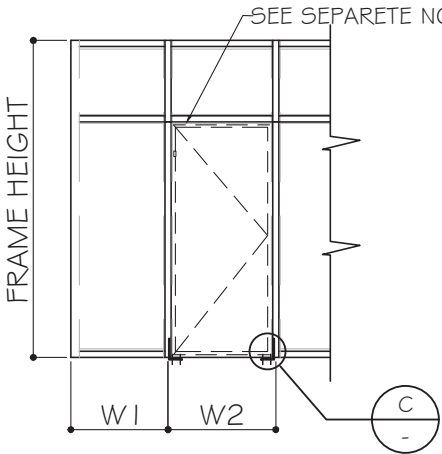
SHEET 03A OF 38

SINGLE SPAN- DESIGN LOAD CAPACITY							
HEIGHT	SPACING	M1		M2,J1		CM3	
in.	in.	(+) psf.	(-) psf.	(+) psf.	(-) psf.	(+) psf.	(-) psf.
120	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
	60	100	125	100	132	100	132
126	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
	60	100	125	100	132	100	132
132	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
138	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
144	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	119	100	131	100	131
150	42	100	125	100	132	100	132
	48	100	124	100	132	100	132
	51.5	100	115	100	132	100	132

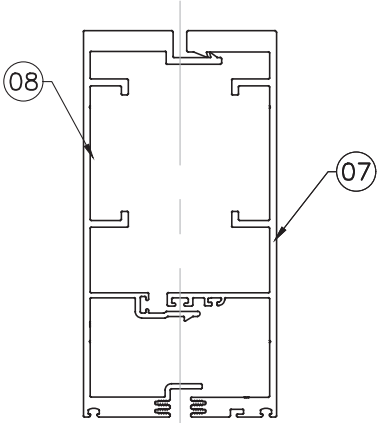


WIDTH (W) = $\frac{W1 + W2}{2}$ OR $\frac{W3 + W1}{2}$
AT MULLION

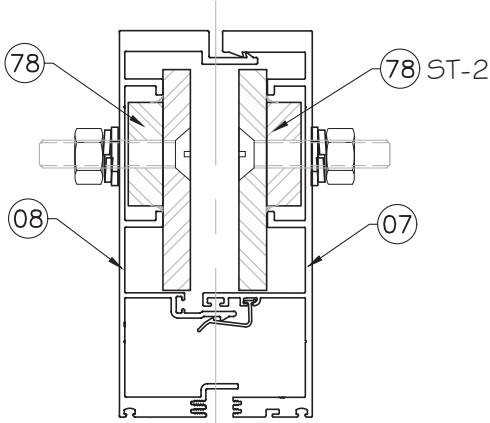
WIDTH (W) = W3
AT JAMB



WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION

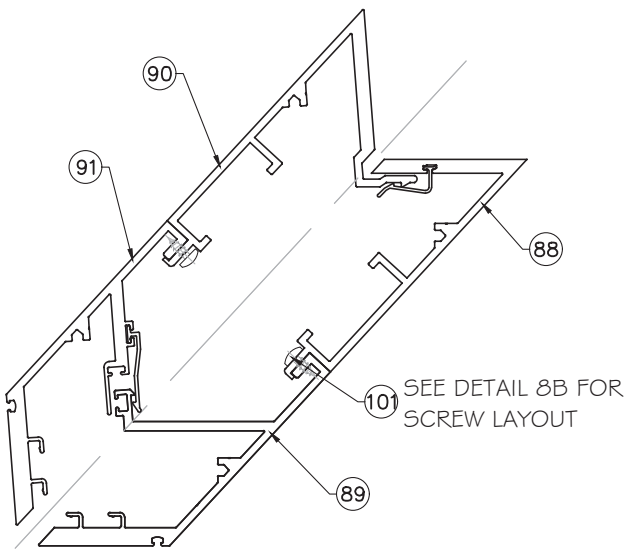
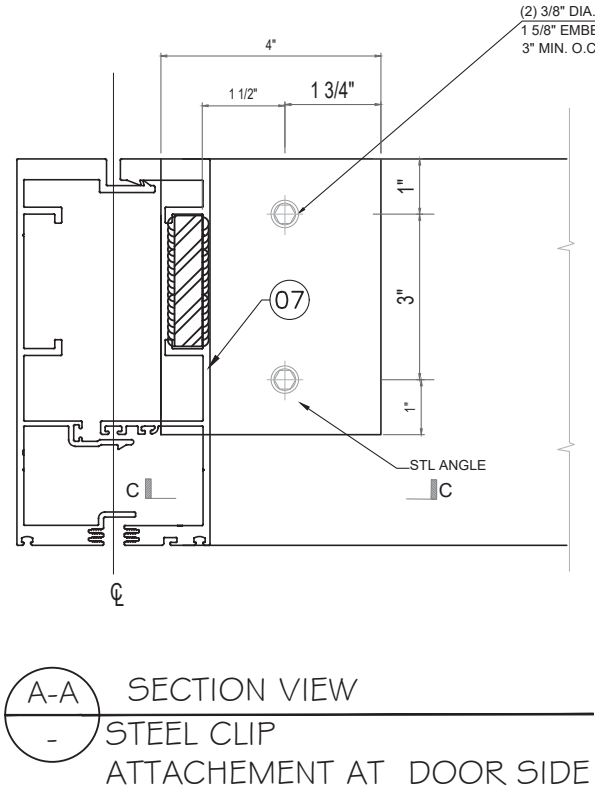
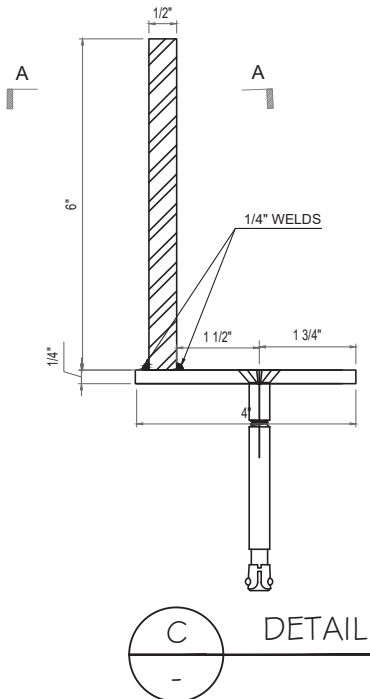


MULLION (M1)



MULLION (M2) (J1)

SEE MULLION SECTION PROPERTIES ON SHEET 8.



MULLION (CM3) 94.40° CORNER

CHART BASED ON EQUAL LOAD @ BOTH SIDE. FOR UNEQUAL LOADS TO BE CHECKED BY DESIGNATED ENGINEER ON JAB BASE

FLORIDA APPROVAL:
FL#28879.2

September 19th, 2023

REVISONS	NO.	DATE	DESCRIPTION
	R2	09.19.2023	FBC 2023

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

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Phone (305) 342-0890 Fax (786) 513-3965

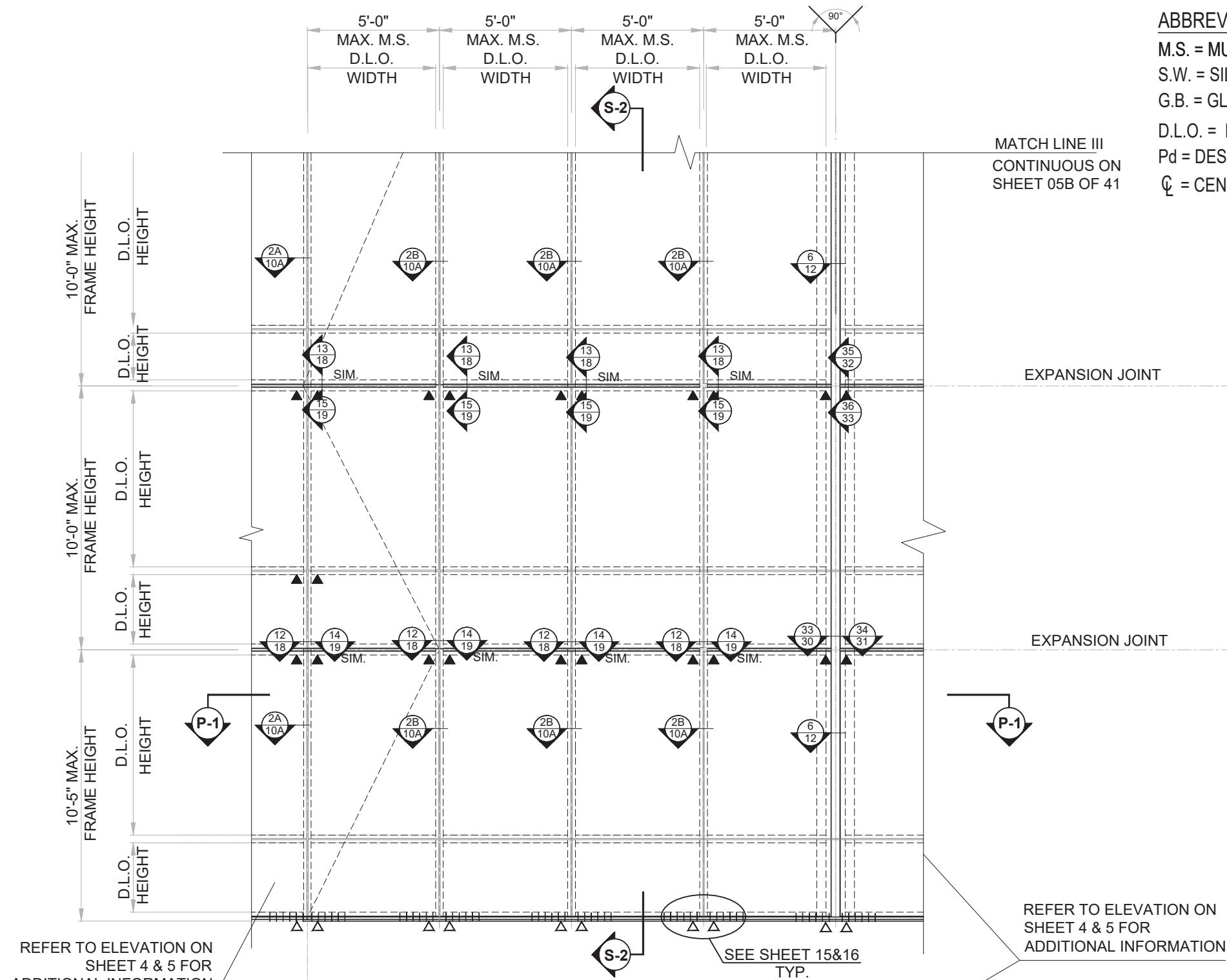
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08

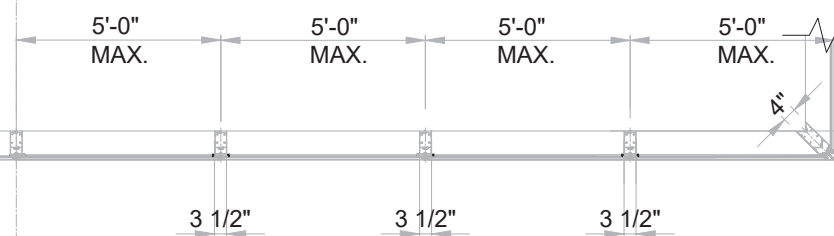
SHEET 03B OF 38

SHEET 05 OF 38

ABBREVIATIONS
M.S. = MULLION SPACING CENTER TO CENTER
S.W. = SILICONE WIDTH
G.B. = GLASS BITE
D.L.O. = DAYLIGHT OPENING
Pd = DESIGN LOAD (PSF)
CL = CENTER LINE



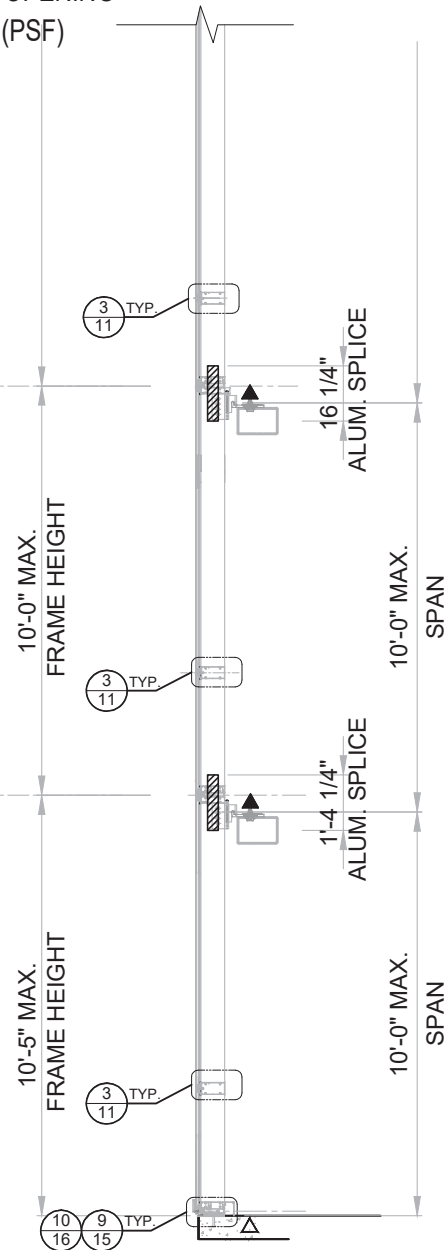
MULTIPLE SPAN ELEVATION - HEAVY DUTY SYSTEM
(THREE SPAN MIN.)



DESIGN LOAD (PSF)	
POSITIVE PSF	NEGATIVE PSF
+100	-187

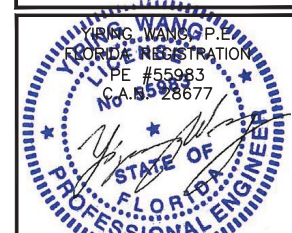
DESIGN LOAD (PSF)	
POSITIVE PSF	NEGATIVE PSF
+100	-140

PLAN LAYOUT



SECTION 2

FLORIDA APPROVAL:
FL#28879.2



September 19th, 2023

REVISIONS	
NO.	DATE
R2	09.19.2023
DESCRIPTION	
FBC 2023	

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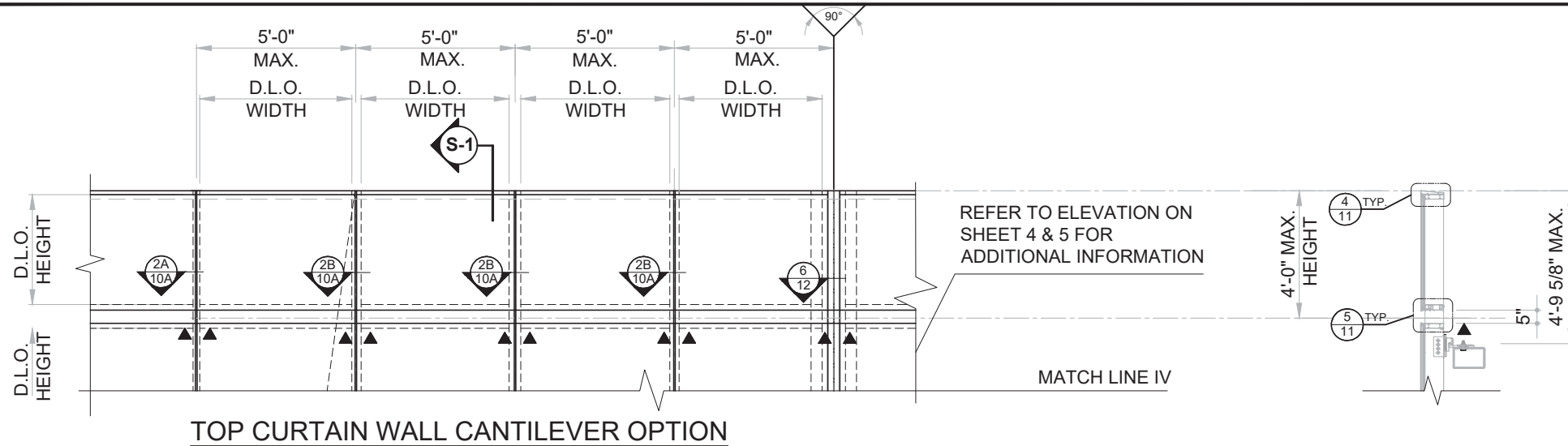
SERIES 7000 ALUMINUM CURTAIN WALL - SMI

Phone (305) 342-0890 Fax (786) 513-3965

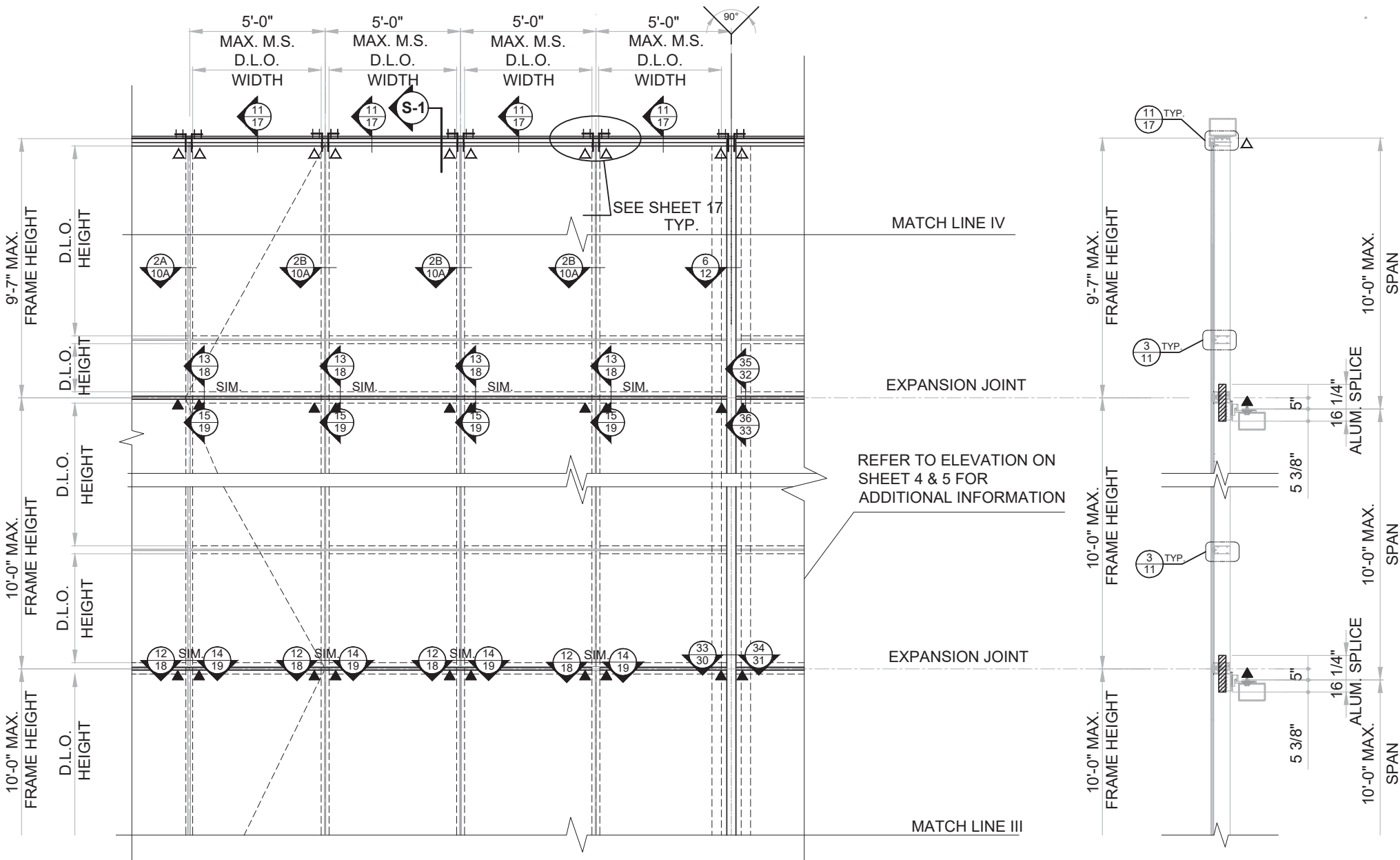
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08

SHEET 05A0F 38



TOP CURTAIN WALL CANTILEVER OPTION



MULTIPLE SPAN ELEVATION - HEAVY DUTY SYSTEM

S-1 SECTION 1

ABBREVIATIONS
M.S. = MULLION SPACING CENTER TO CENTER
S.W. = SILICONE WIDTH
G.B. = GLASS BITE
D.L.O. = DAYLIGHT OPENING
Pd = DESIGN LOAD (PSF)
CL = CENTER LINE

FLORIDA APPROVAL:
FL#28879.2

YOUNG, WANG & ASSOCIATES, P.C.
REGISTERED PROFESSIONAL ENGINEER
PE #55983
CA #55983

September 19th, 2023

REVISIONS	
NO.	DATE
1	09.19.2023
2	09.19.2023
3	FBC 2023

MCY ENGINEERING, INC.
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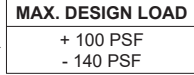
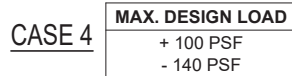
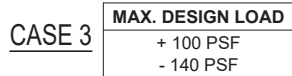
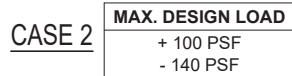
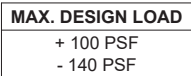
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	DESCRIPTION
09.19.2023	AS NOTED
AS NOTED	JAMES
MCY19-010	

DRAWING NO.
AD19-08

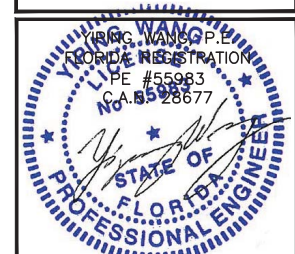
SHEET **05B0F 38**

NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



CASE 1 THRU CASE 6
W/ CANTILEVER

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



FLORIDA APPROVAL:
FL#28879.2

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

3550 NW 49th Street, MIAMI, FL 33142

5550 NW 43rd Street, Miami, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

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MCY@mcysengineering.com

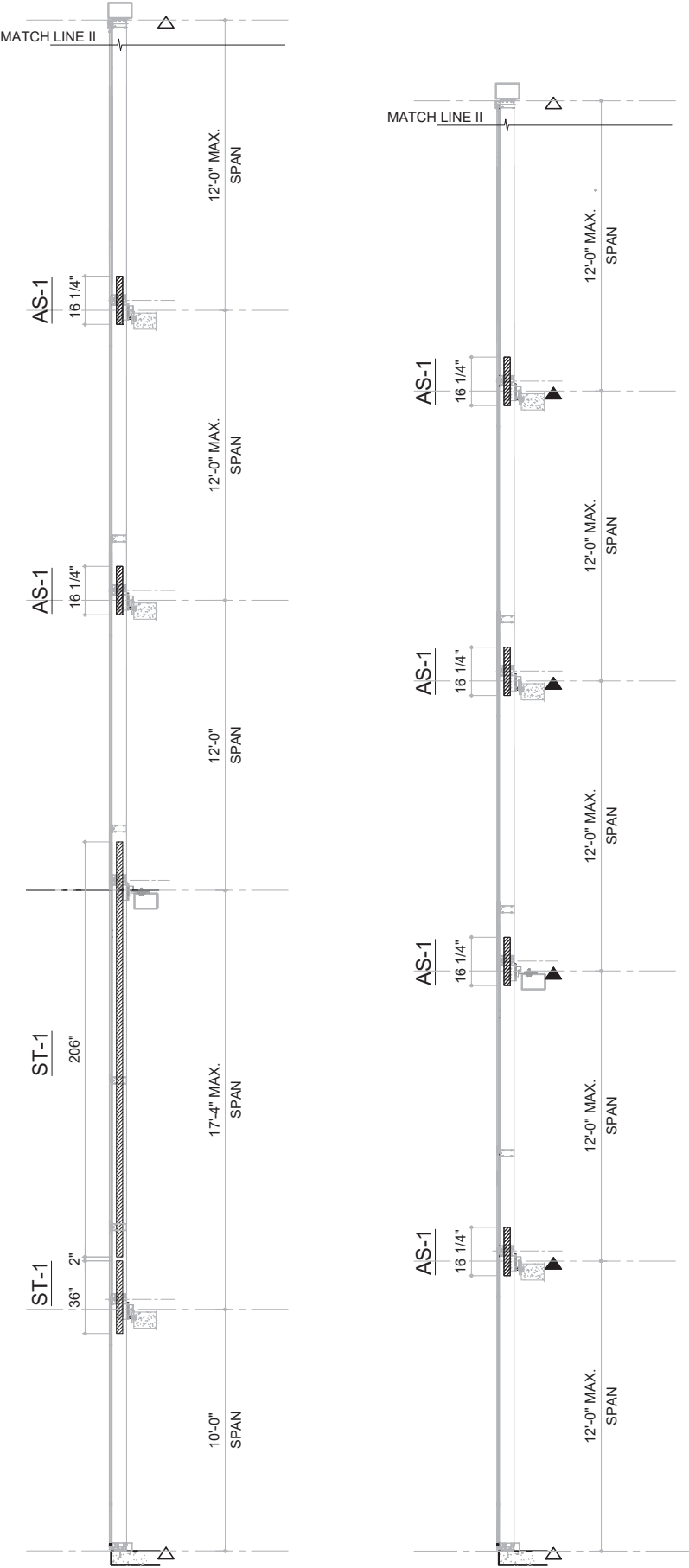
REVISIONS	
NO.	DATE DESCRIPTION
R2	09.19.2023 FFC 2023

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08

SHEET 06 OF 38

TYP. MULLION/JAMB SECTIONS W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



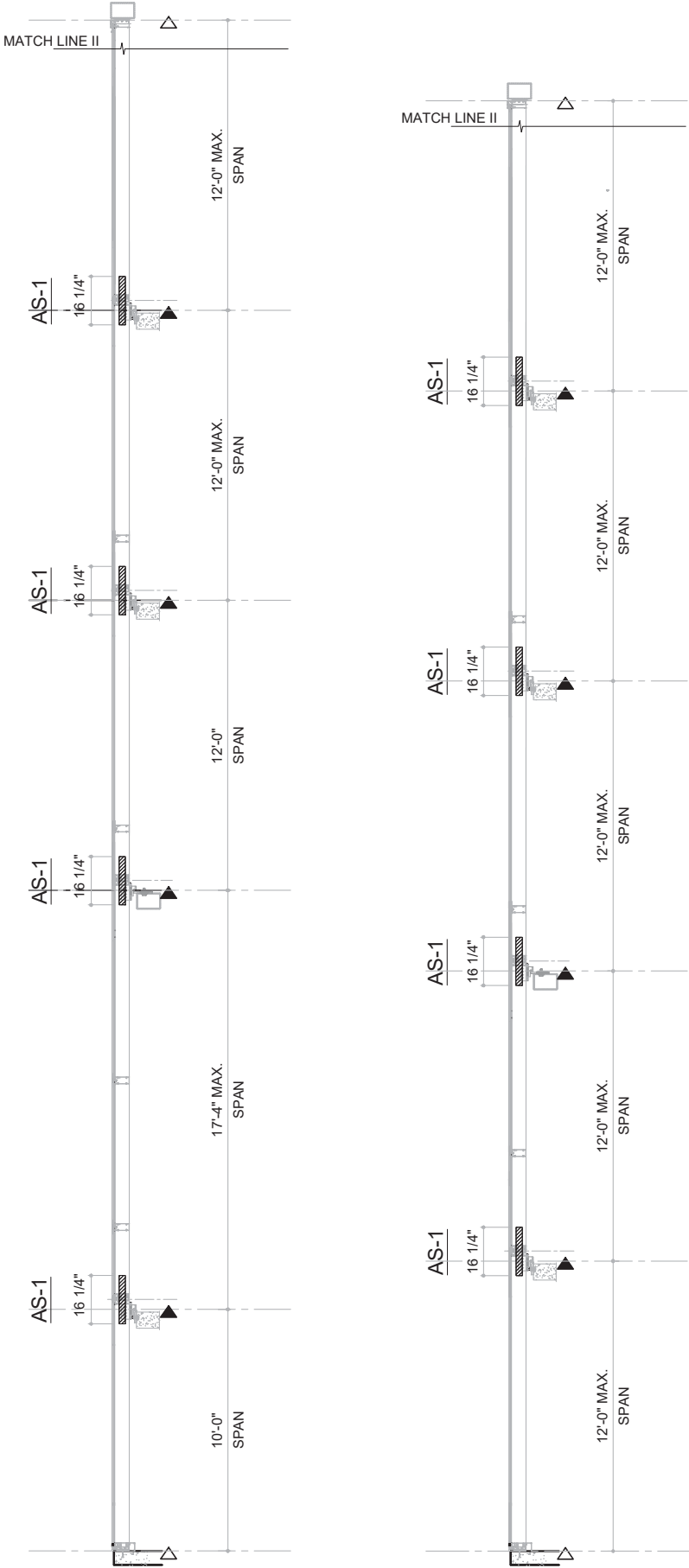
CASE 1.2

MAX. DESIGN LOAD
+ 100 PSF
- 122 PSF

CASE 3.1

MAX. DESIGN LOAD
+ 100 PSF
- 124 PSF

CORNER MULLION SECTION W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



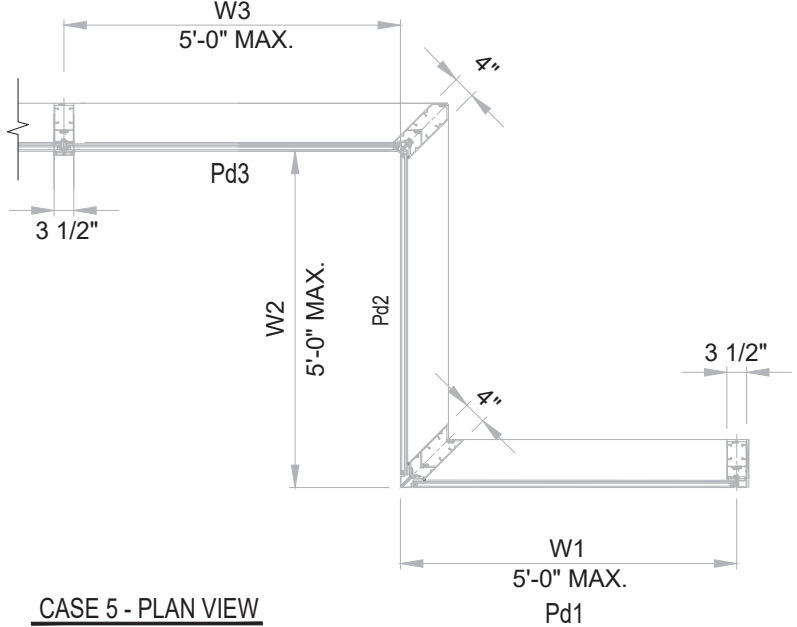
CASE 5
INSIDE / OUTSIDE
CORNER MULLION.

$W1*PD1 = W2*PD2 = W3*PD3$

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

CASE 6
INSIDE / OUTSIDE
CORNER MULLION.

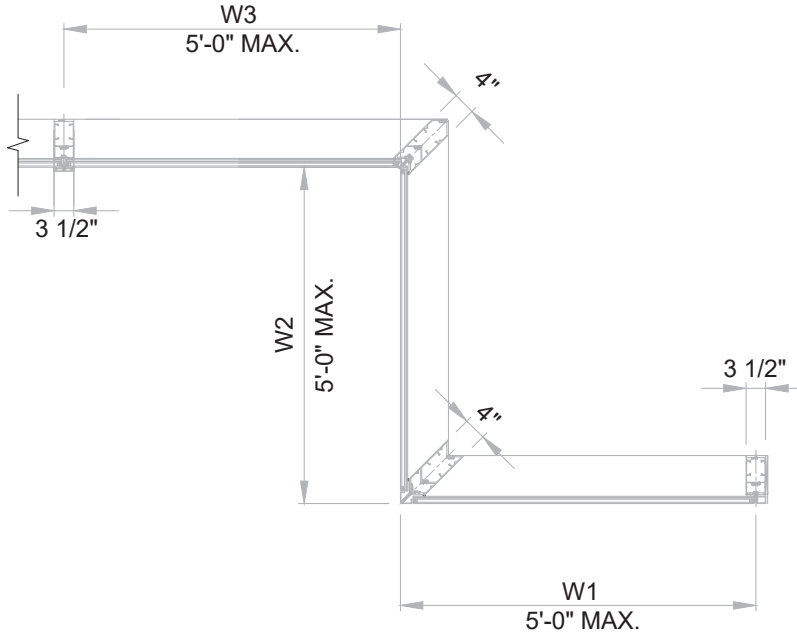
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



CASE 5 - PLAN VIEW

$W1*PD1 = W2*PD2 = W3*PD3$

NOTE:
FOR $W1*PD1 \neq W2*PD2 \neq W3*PD3$
SEPARATE ENGINEERING CALCULATIONS FOR REINFORCEMENTS
ARE REQUIRED BASED ON EACH PROJECT CONDITION



CASE 6 - PLAN VIEW

FLORIDA APPROVAL:
FL#28879.2

YOUNG WANG P.E.
FLORIDA REGISTRATION
PE #55983
CA #55983
September 19th, 2023

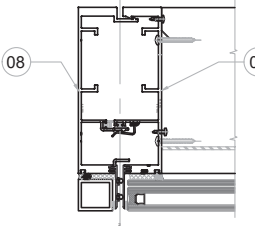
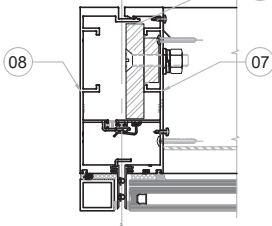
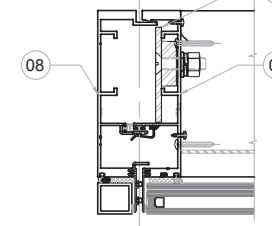
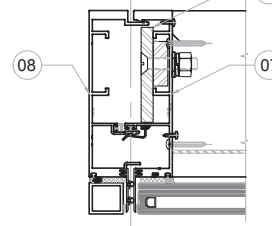
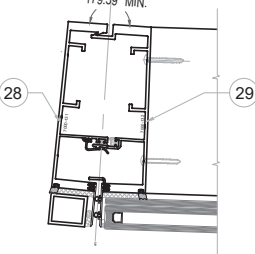
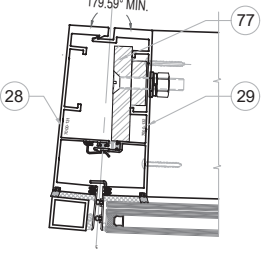
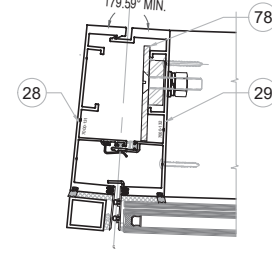
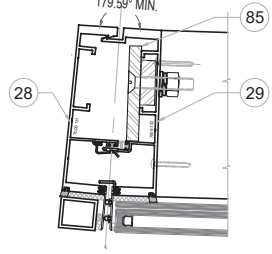
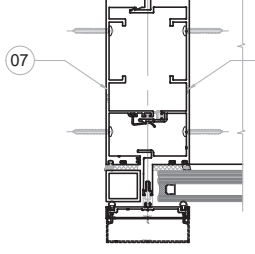
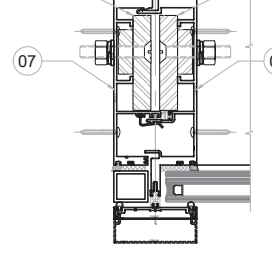
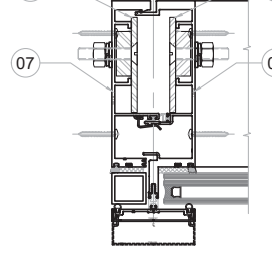
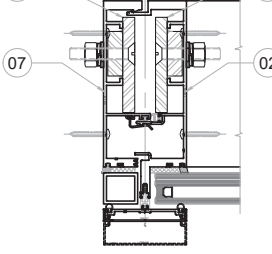
REVISIONS	NO.	DATE	DESCRIPTION
	R2	09.19.2023	FBC 2023

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SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-08
SHEET	07 OF 38

TYP. MULLION W/ OR W/O REINF. OPTIONS																								
STRUCTURAL BUTT GLAZED STRAIGHT MULLION	MULLION W/O REINF.		MULLION W/ ST-1		MULLION W/ ST-2		MULLION W/ ST-4																	
		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3
	lx	Sx																						
in^4	in^3																							
lx	Sx																							
in^4	in^3																							
lx	Sx																							
in^4	in^3																							
lx	Sx																							
in^4	in^3																							
ALUM. (7000-109 + 7000-108)		33.4176	8.9666	ALUM. (7000-109 + 7000-108)		33.4176	8.9666	ALUM. (7000-109 + 7000-108)		33.4176	8.9666													
				2 * ST-1		9.2210	4.3132	2 * ST-2		3.7440	1.6600	2 * ST-4		6.5046	2.9832									
				TOTAL lx Al + lx St*(2.9)		60.1585	--	TOTAL lx Al + lx St*(2.9)		44.2752	--	TOTAL lx Al + lx St*(2.9)		52.2809	--									
STRUCTURAL BUTT GLAZED CURVED MULLION																								
		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3
	lx	Sx																						
	in^4	in^3																						
lx	Sx																							
in^4	in^3																							
lx	Sx																							
in^4	in^3																							
lx	Sx																							
in^4	in^3																							
ALUM. (7000-131 + 7000-109)		34.7709	9.4261	ALUM. (7000-131 + 7000-109)		34.7709	9.4261	ALUM. (7000-131 + 7000-109)		34.7709	9.4261													
				2 * ST-1		9.2210	4.3132	2 * ST-2		3.7440	1.6600	2 * ST-4		6.5046	2.9832									
				TOTAL lx Al + lx St*(2.9)		61.5089	--	TOTAL lx Al + lx St*(2.9)		45.6285	--	TOTAL lx Al + lx St*(2.9)		53.6342	--									
STRUCTURAL CAPPED GLAZED STRAIGHT MULLION																								
		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3		<table><tr><th>lx</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr></table>	lx	Sx	in^4	in^3
	lx	Sx																						
	in^4	in^3																						
lx	Sx																							
in^4	in^3																							
lx	Sx																							
in^4	in^3																							
lx	Sx																							
in^4	in^3																							
ALUM. (7000-108 + 7000-102)		40.5240	9.3870	ALUM. (7000-102 + 7000-108)		40.5240	9.3870	ALUM. (7000-102 + 7000-108)		40.5240	9.3870													
				2 * ST-1		9.2210	4.3132	2 * ST-2		3.7440	1.6600	2 * ST-4		6.5046	2.9832									
				TOTAL lx Al + lx St*(2.9)		67.2620	--	TOTAL lx Al + lx St*(2.9)		51.3816	--	TOTAL lx Al + lx St*(2.9)		59.3873	--									

TYP. JAMB W/ OR W/O REINF. OPTIONS												
STRUCTURAL BUTT GLAZED STRAIGHT JAMB	JAMB W/O REINF.			JAMB W/ ST-1			JAMB W/ ST-2			JAMB W/ ST-4		
												
		Ix in^4	Sx in^3		Ix in^4	Sx in^3		Ix in^4	Sx in^3		Ix in^4	Sx in^3
	ALUM. (7000-109 + 7000-108)	33.4176	8.9666	ALUM. (7000-109 + 7000-108)	33.4176	8.9666	ALUM. (7000-109 + 7000-108)	33.4176	8.9666	ALUM. (7000-109 + 7000-108)	33.4176	8.9666
				1 * ST-1	4.6105	2.1566	1 * ST-2	1.8720	0.8300	1 * ST-4	3.2523	1.4916
			TOTAL Ix Al + Ix St*(2.9)	46.7881	--	TOTAL Ix Al + Ix St*(2.9)	38.8464	--	TOTAL Ix Al + Ix St*(2.9)	42.8492	--	
STRUCTURAL BUTT GLAZED CURVED JAMB												
		Ix in^4	Sx in^3		Ix in^4	Sx in^3		Ix in^4	Sx in^3		Ix in^4	Sx in^3
	ALUM. (7000-131 + 7000-132)	35.9366	9.7389	ALUM. (7000-131 + 7000-132)	35.9366	9.7389	ALUM. (7000-131 + 7000-132)	35.9366	9.7389	ALUM. (7000-131 + 7000-132)	35.9366	9.7389
				1 * ST-1	4.6105	2.1566	1 * ST-2	1.8720	0.8300	1 * ST-4	3.2523	1.4916
				TOTAL Ix Al + Ix St*(2.9)	49.3071	--	TOTAL Ix Al + Ix St*(2.9)	41.3654	--	TOTAL Ix Al + Ix St*(2.9)	45.3682	--
STRUCTURAL CAPPED GLAZED STRAIGHT JAMB												
		Ix in^4	Sx in^3		Ix in^4	Sx in^3		Ix in^4	Sx in^3		Ix in^4	Sx in^3
	ALUM. (7000-108 + 7000-102)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870
				2 * ST-1	9.2210	4.3132	2 * ST-2	3.7440	1.6600	2 * ST-4	6.5046	2.9832
				TOTAL Ix Al + Ix St*(2.9)	67.2620	--	TOTAL Ix Al + Ix St*(2.9)	51.3816	--	TOTAL Ix Al + Ix St*(2.9)	59.3873	--

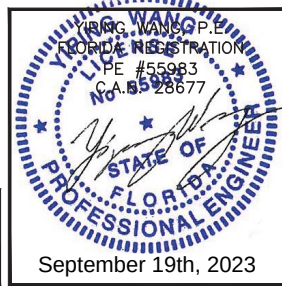
STRUCTURAL GLAZED CORNER MULLIONS

90° INSIDE OR OUTSIDE CORNER MULLION OPTIONS

OUTSIDE CORNER MULLION W/O REINF.			INSIDE CORNER MULLION W/O REINF.			OUTSIDE CORNER MULLION W/O REINF.			INSIDE CORNER MULLION W/O REINF.		
	lx in^4	Sx in^3		lx in^4	Sx in^3		lx in^4	Sx in^3		lx in^4	Sx in^3
ALUM. (7000-120 + 7000-122)	98.2386	16.7443	ALUM. (7000-124 + 7000-125)	90.4431	14.0658	ALUM. (7000-120 + 7000-122) X-Direction	49.8888	10.3160	ALUM. (7000-124 + 7000-125) X-Direction	47.9395	9.2154
						ALUM. (7000-120 + 7000-122) Y-Direction	50.8132	10.363	ALUM. (7000-124 + 7000-125) Y-Direction	45.1515	8.205

REINFORCEMENT OPTIONS			
77 ST-1 (A50) 3/4" STEEL REINFORCEMENT	78 ST-2 (A36) 1/4" STEEL REINFORCEMENT	79 ST-4 (A50) 1/2" STEEL REINFORCEMENT	39 SPlice AS-1 7000-143

FLORIDA APPROVAL:
FL#28879.2



REVISIONS

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR FL 33027

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F: 305.588.5224

www.MCYEngineering.com
MCY@mcyengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

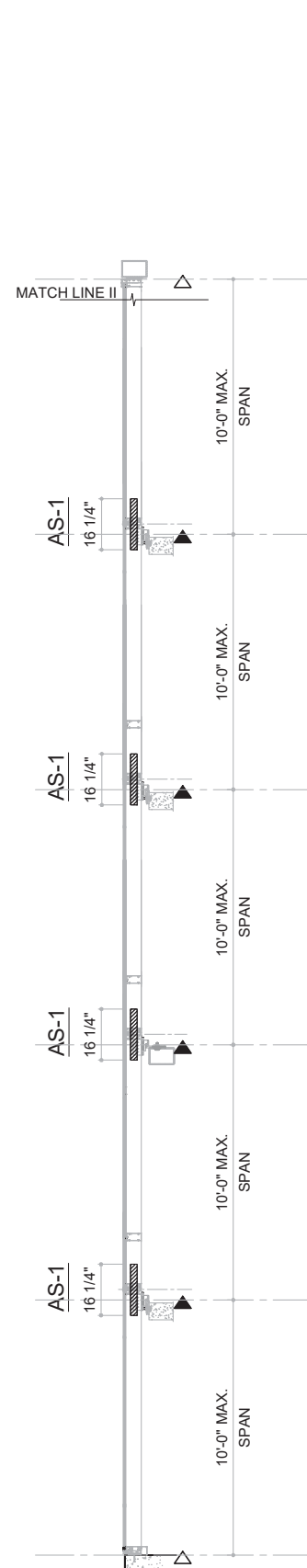
3550 NW 49th Street, MIAMI, FL 33142

Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

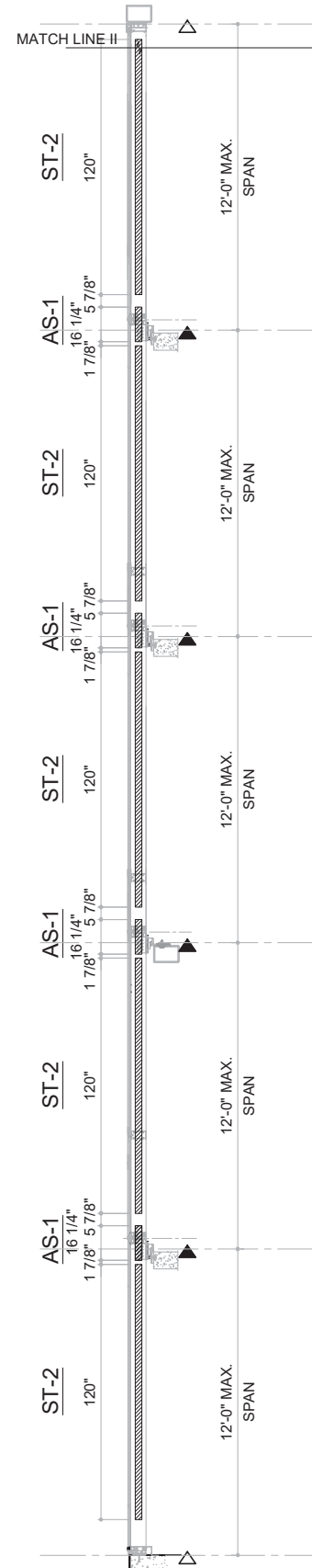
DRAWING NO.	AD19-08
SHEET	08 OF 38

TYP. MULLION/JAMB SECTIONS W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8A FOR MULLION SECTIONS & PROPERTIES



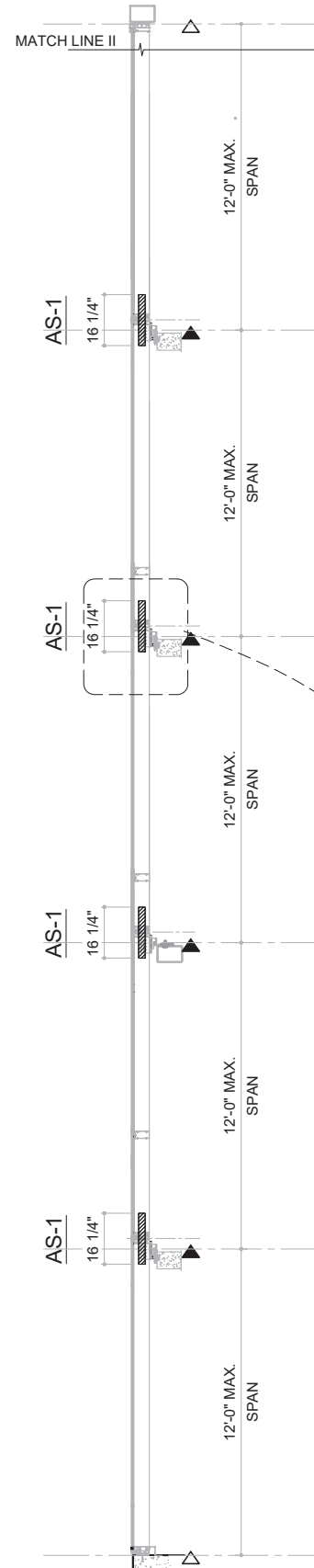
CASE 2A

MAX. DESIGN LOAD	
+ 100 PSF	- 140 PSF



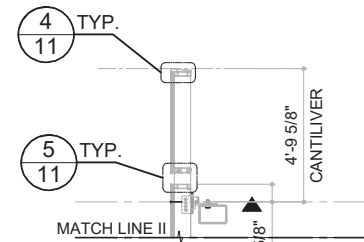
CASE 3A

MAX. DESIGN LOAD	
+ 100 PSF	- 132 PSF



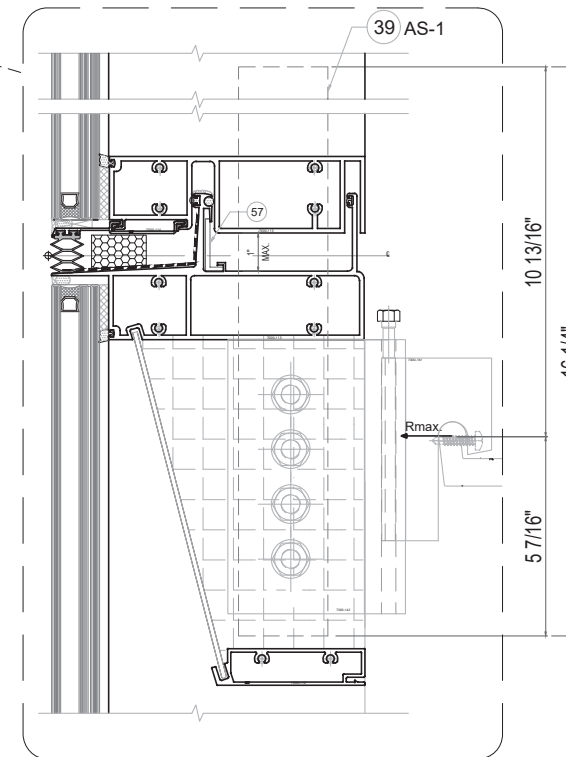
CASE 3.1A

MAX. DESIGN LOAD	
+ 100 PSF	- 108 PSF



CASE 2A, 3A and 3.1A
W/ CANTILEVER
(OPTION)

NOTE: DESIGN LOAD SAME AS
CONDITION W/O CANTILEVER



SPLICE DETAIL TYPICAL
AS-1

TYP. MULLION W/ OR W/O REINF. OPTIONS

STRUCTURAL BUTT GLAZED CURVED 172° MULLION

	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186

	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186

2 * ST-2	3.7440	1.6600
TOTAL Ix AI + Ix St*(2.9)	39.9399	—

TYP. JAMB W/ OR W/O REINF. OPTIONS

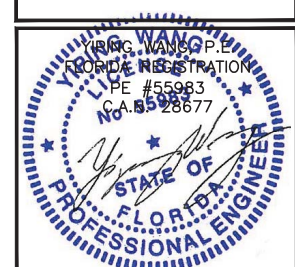
STRUCTURAL BUTT GLAZED CURVED 172° JAMB

	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186

	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186

1 * ST-2	1.8720	0.8300
TOTAL Ix AI + Ix St*(2.9)	34.5111	—

FLORIDA APPROVAL:
FL#28879.2



September 19th, 2023

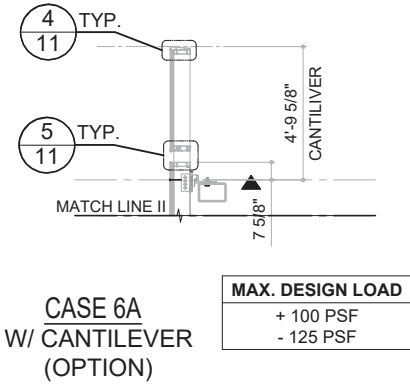
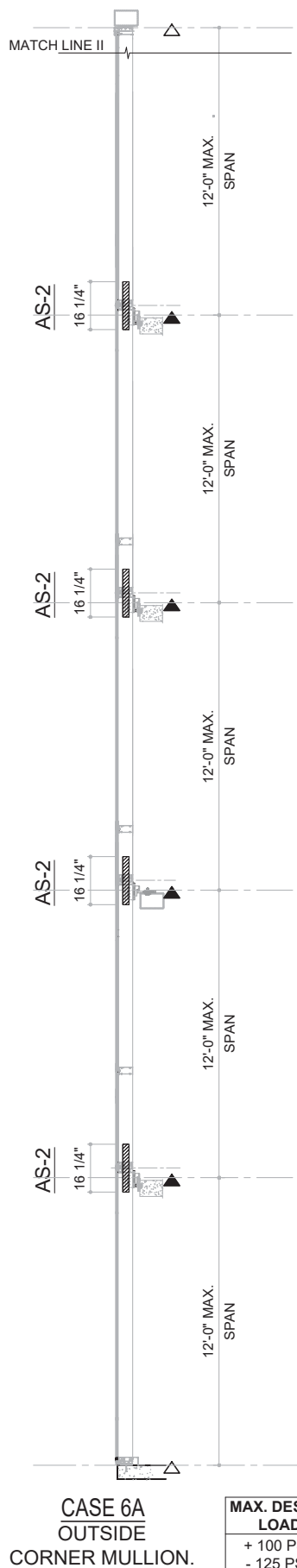
REVISIONS	
NO.	DATE
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DESCRIPTION	
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MCY
MCY ENGINEERING, INC.
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

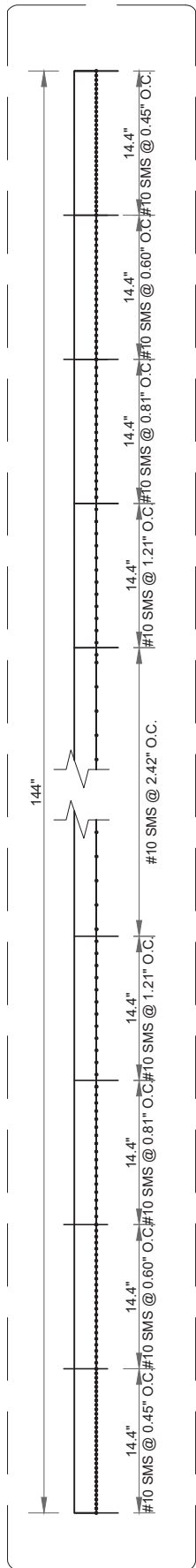
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	
AD19-08	
SHEET 08A0F 38	

TYP. CORNER SECTIONS W/O REINFORCEMENT
NOTE: REFER TO SHEET 8B FOR MULLION SECTIONS & PROPERTIES

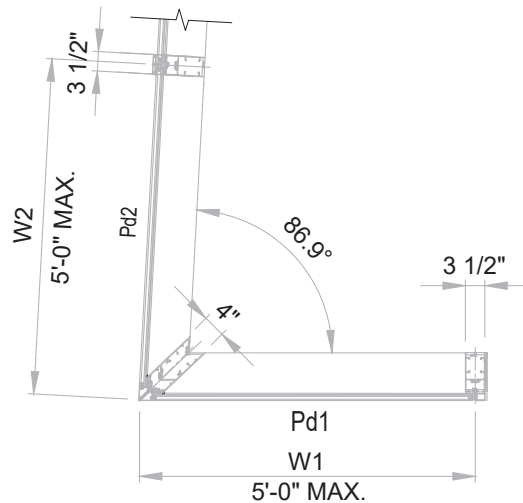


101 #10 x 1/2" LG. PH
SMS SCREW
LAYOUT
(TYPICAL)

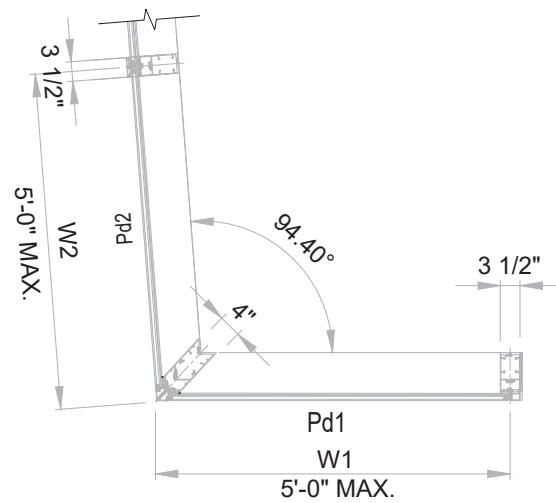
MAX. DESIGN LOAD	
+ 100 PSF	
- 125 PSF	



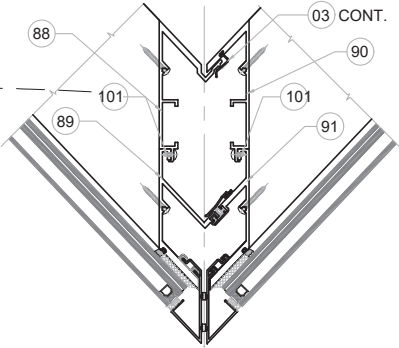
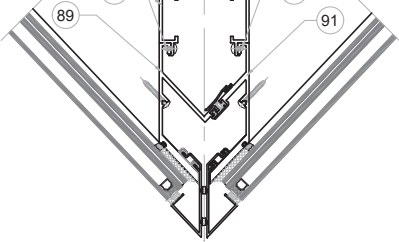
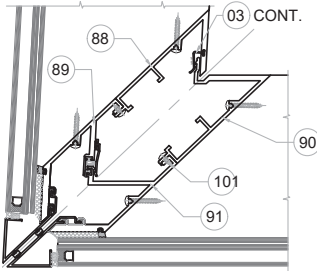
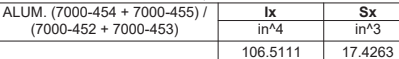
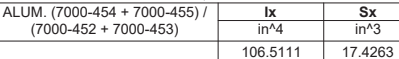
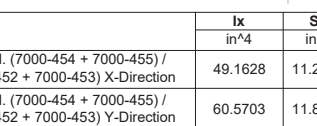
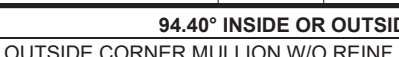
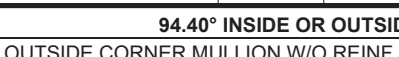
END OF MULLION

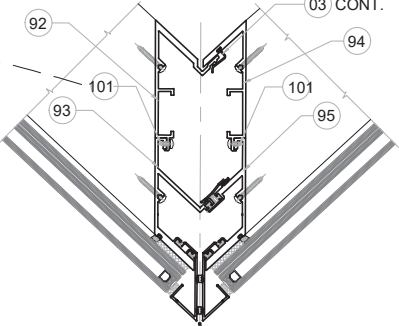
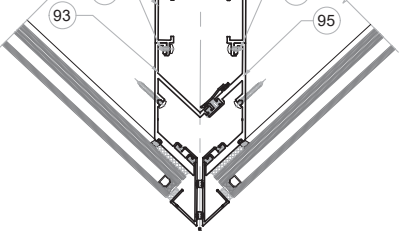
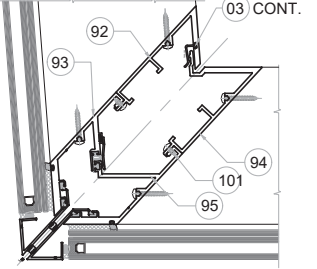
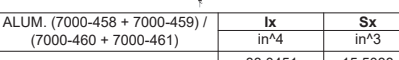
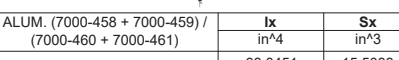
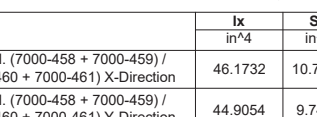


CASE 6A - PLAN VIEW



CASE 6A - PLAN VIEW

STRUCTURAL GLAZED CORNER MULLIONS	86.90° INSIDE OR OUTSIDE CORNER MULLION OPTIONS			
	OUTSIDE CORNER MULLION W/O REINF.	OUTSIDE CORNER MULLION W/O REINF.		
				
				
				

STRUCTURAL GLAZED CORNER MULLIONS	94.40° INSIDE OR OUTSIDE CORNER MULLION OPTIONS			
	OUTSIDE CORNER MULLION W/O REINF.	OUTSIDE CORNER MULLION W/O REINF.		
				
				
				

FLORIDA APPROVAL:
FL#28879.2

September 19th, 2023

REVISIONS	
NO.	DATE
R2	09.19.2023
FBC	2023

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GLAZING CONSULTANTS

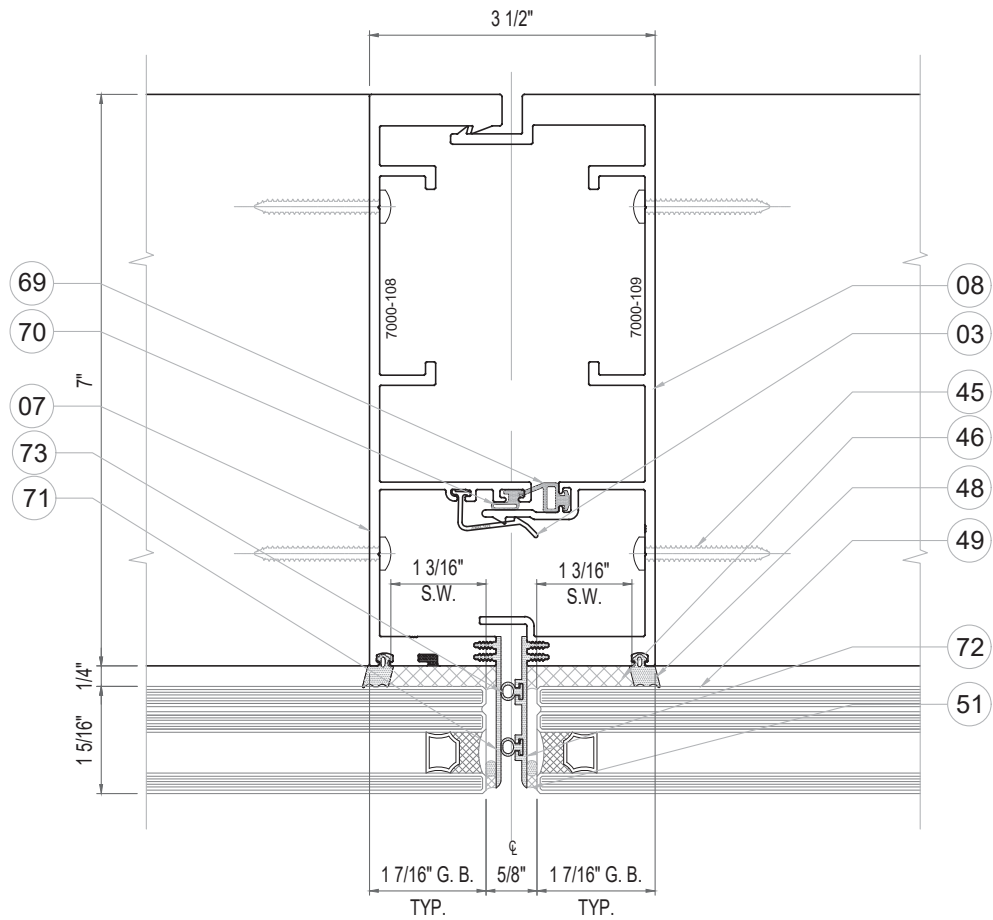
12781 MIRAMAR PARKWAY #301
MIRAMAR FL 33307
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F: 305.588.5224
www.MCYEngineering.com
MCY@mcycengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

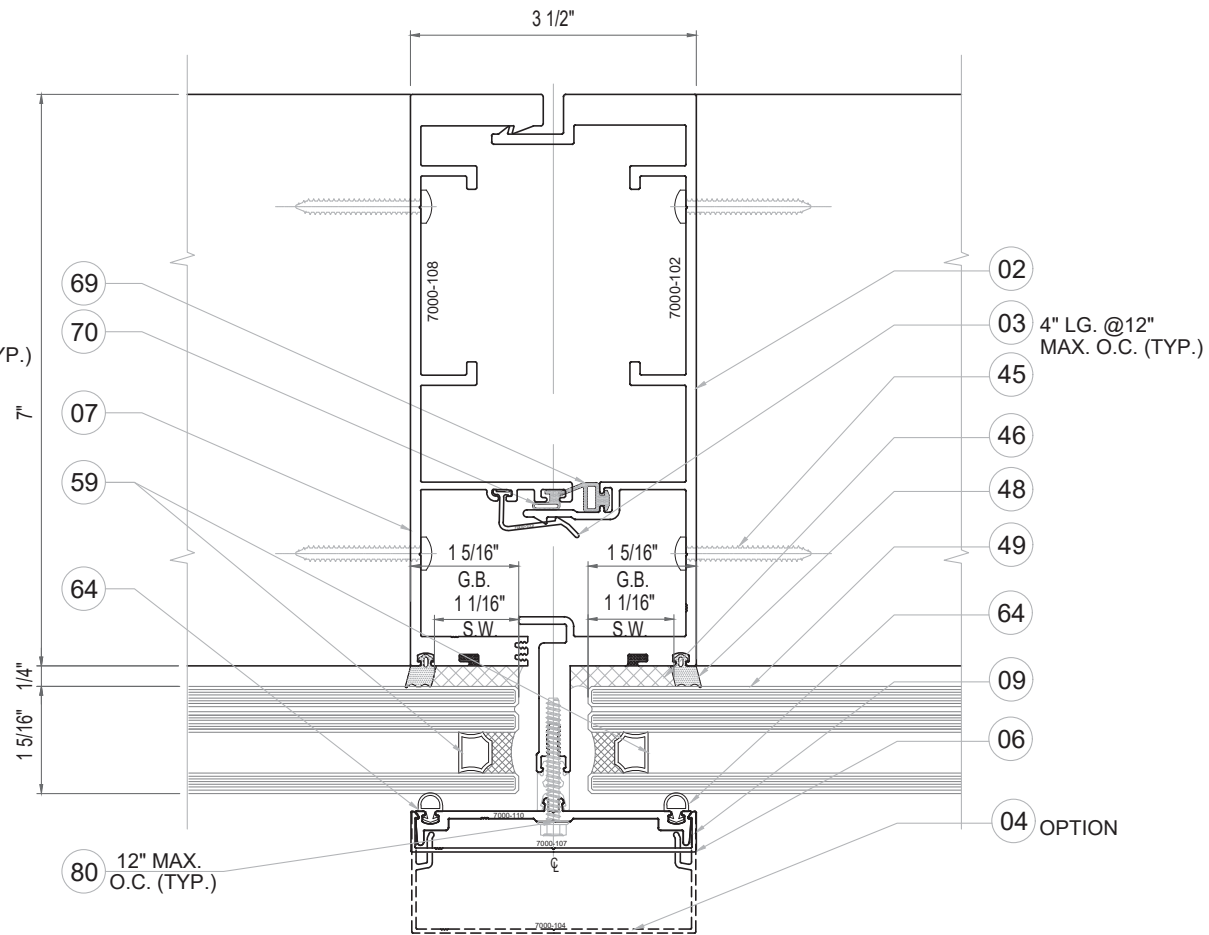
TECNOGLASS, LLC.

3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

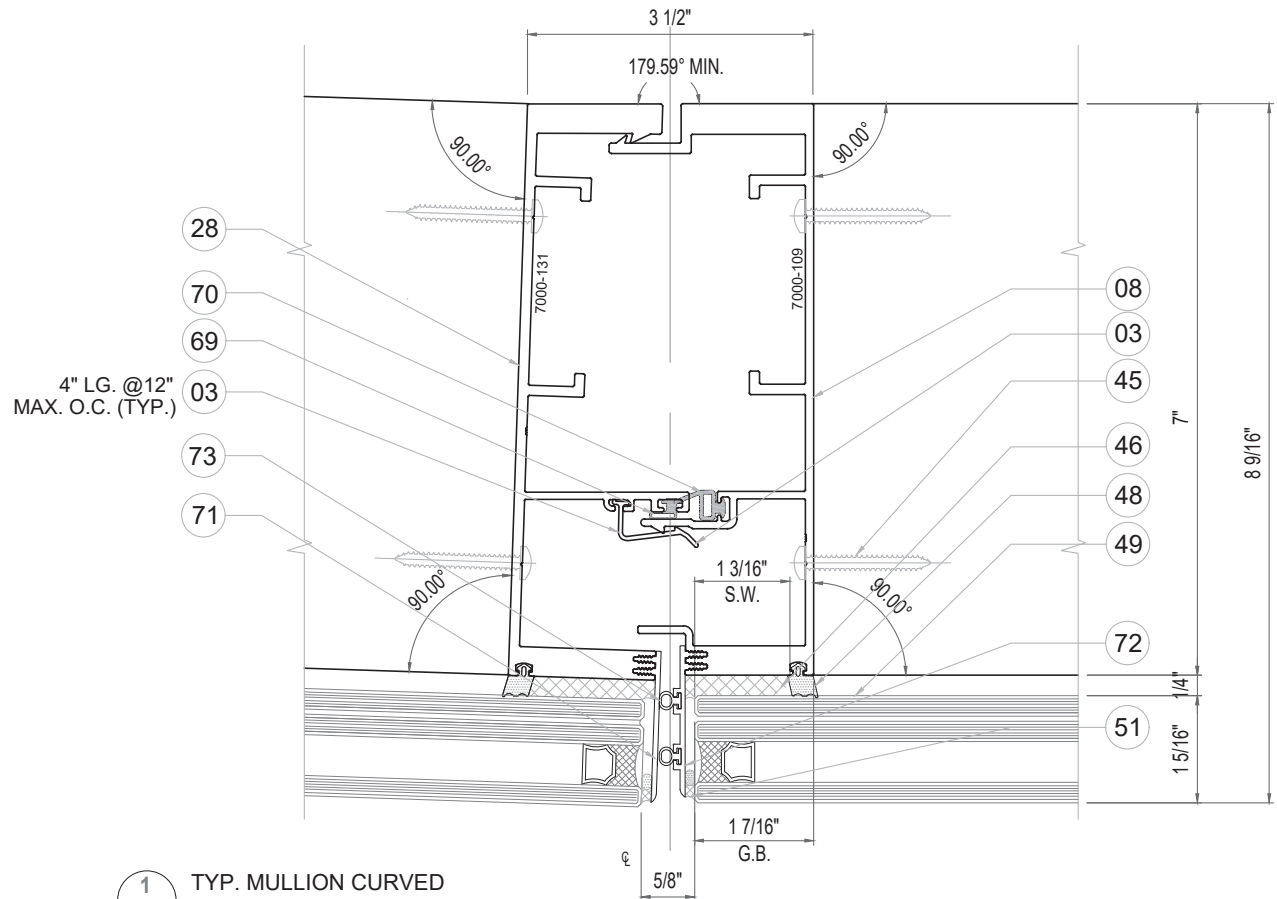
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	
AD19-08	
SHEET 08B0F 38	



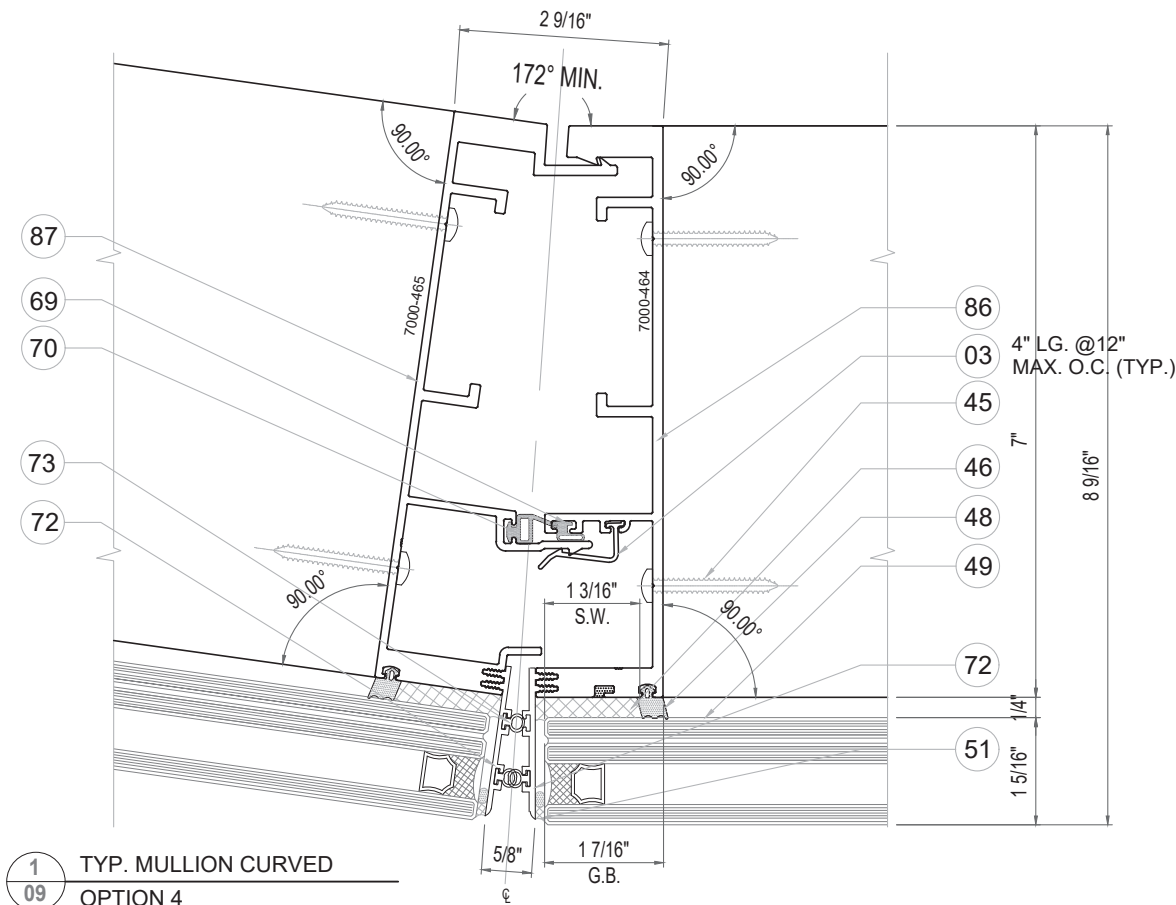
1
09 TYP. MULLION BUTT GLAZED
OPTION 1



1
09 TYP. MULLION CAPTURED
OPTION 2

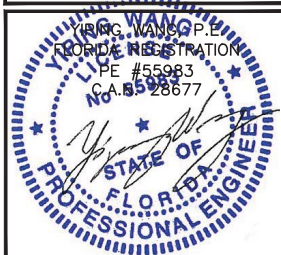


1
09 TYP. MULLION CURVED
OPTION 3



1
09 TYP. MULLION CURVED
OPTION 4

FLORIDA APPROVAL:
FL#28879.2



NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

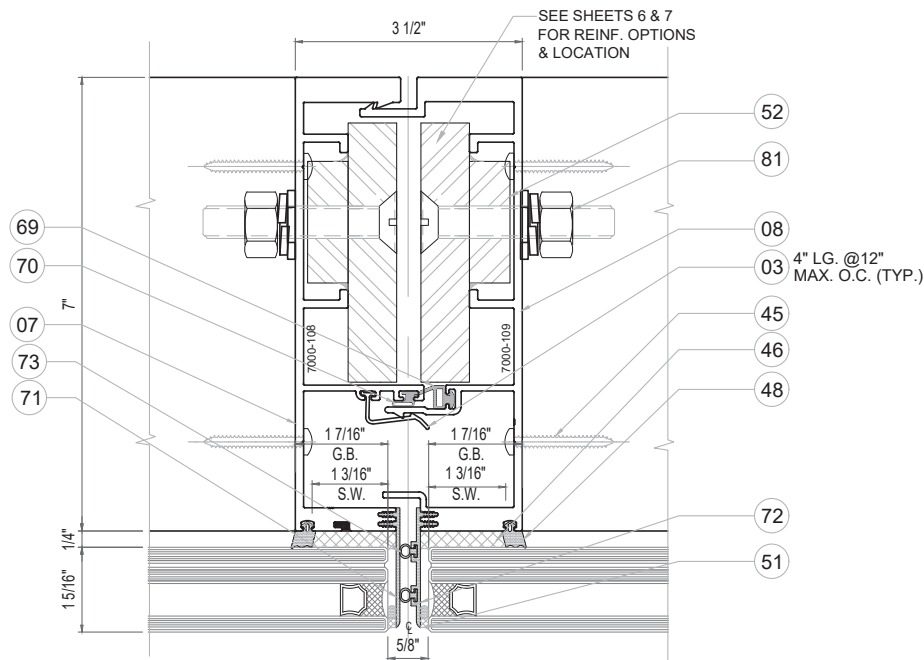
MCY
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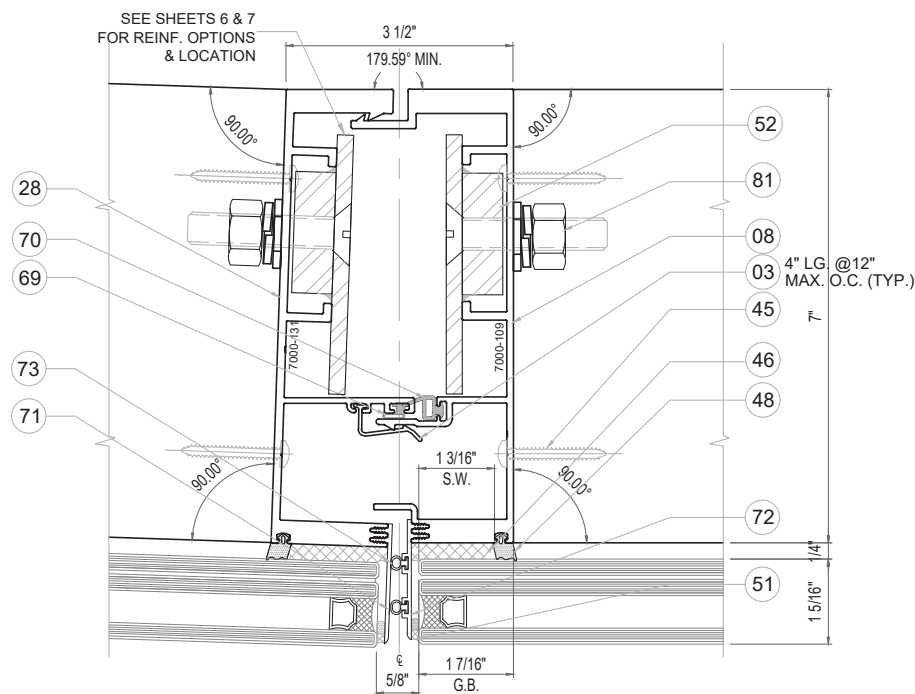
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08

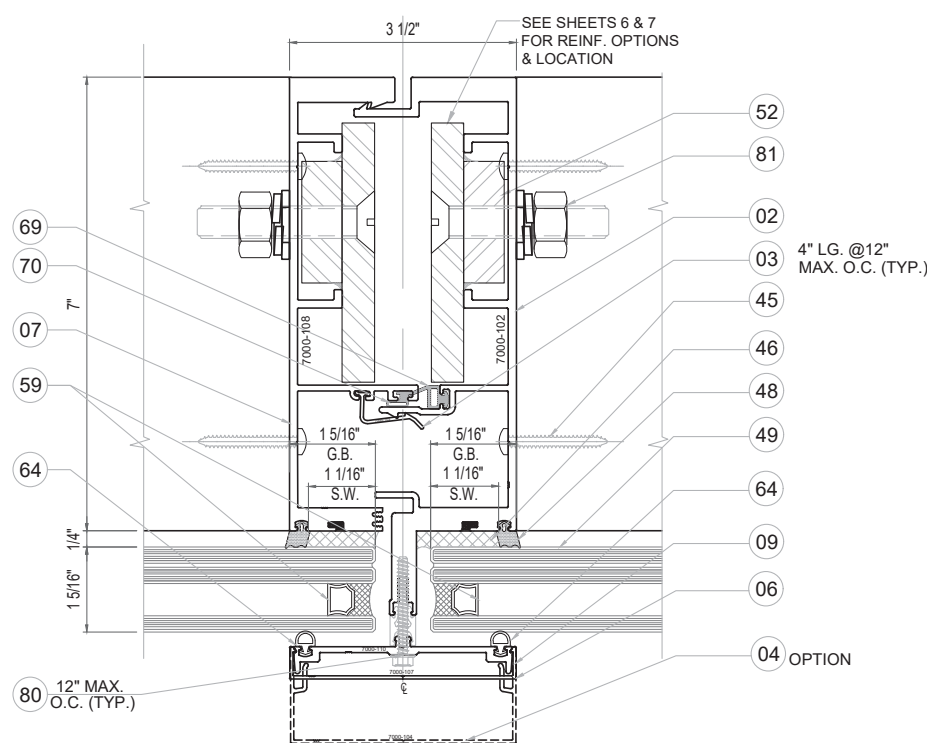
SHEET 09 OF 38



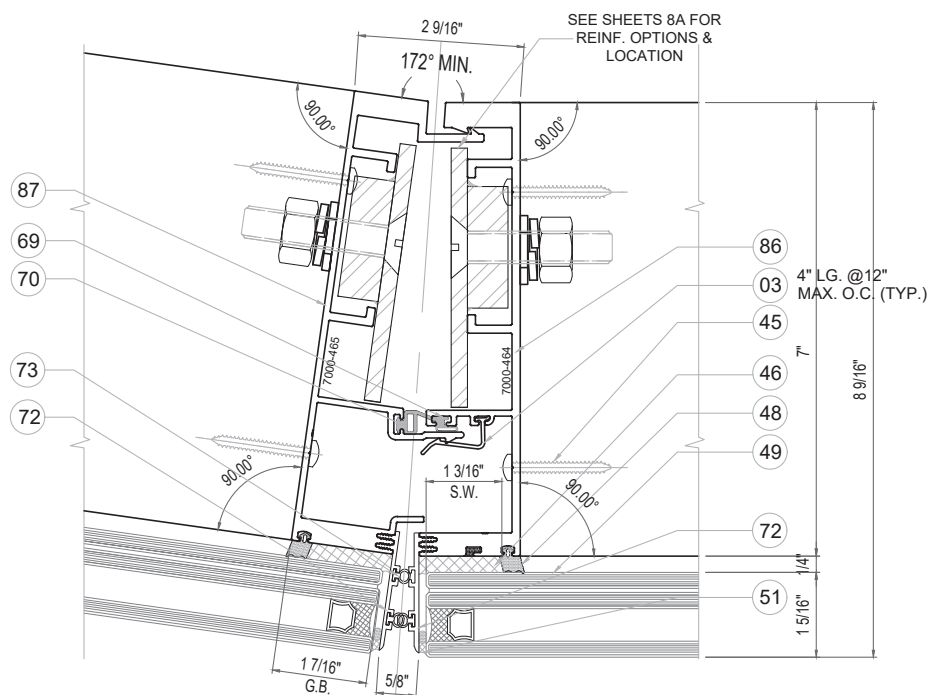
2
10 TYP. MULLION BUTT GLAZED W/ REINF.
OPTION 1



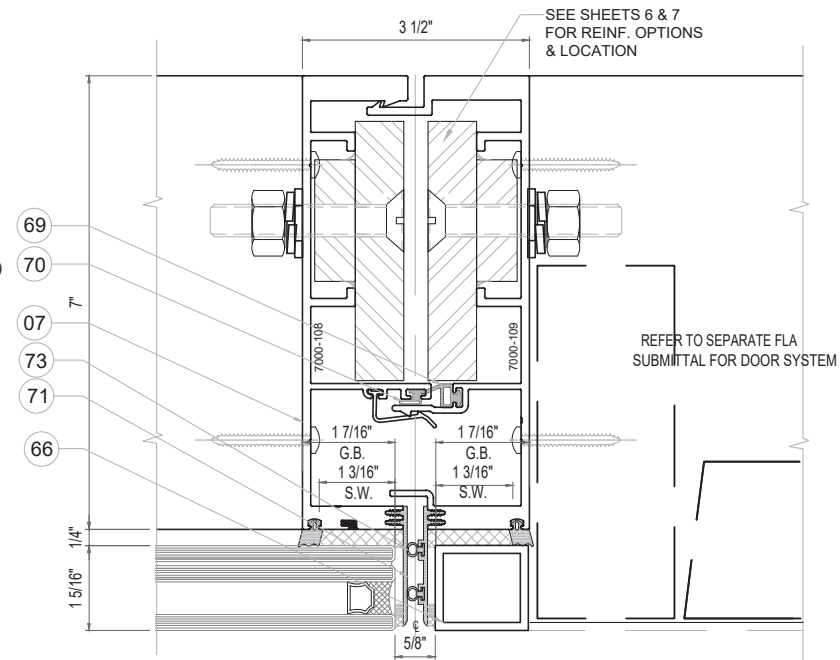
2
10 TYP. MULLION CURVED W/ REINF.
OPTION 3



2
10 TYP. MULLION CAPTURED W/ REINF.
OPTION 2



2
10 TYP. MULLION CURVED W/ REINF.
OPTION 4



2A
10 TYP. DOOR JAMB MULLION BUTT GLAZED W/ REINF.
REINF. OPTION (2) ST-4 FOR SINGLE SPAN CONDITION

NOTE:
REFER TO SHEETS 6, 7 & 8A FOR TYP.
MULLION SPANS V.S. REINFORCEMENT
AND MAX. DESIGN LOAD.

NOTE:
1 3/16" SILICONE WIDTH SHOWN ON
TYPICAL DETAILS. FOR SILICONE
CAPACITIES, SEE CHART ON SHEET 03

FLORIDA APPROVAL:
FL#28879.2

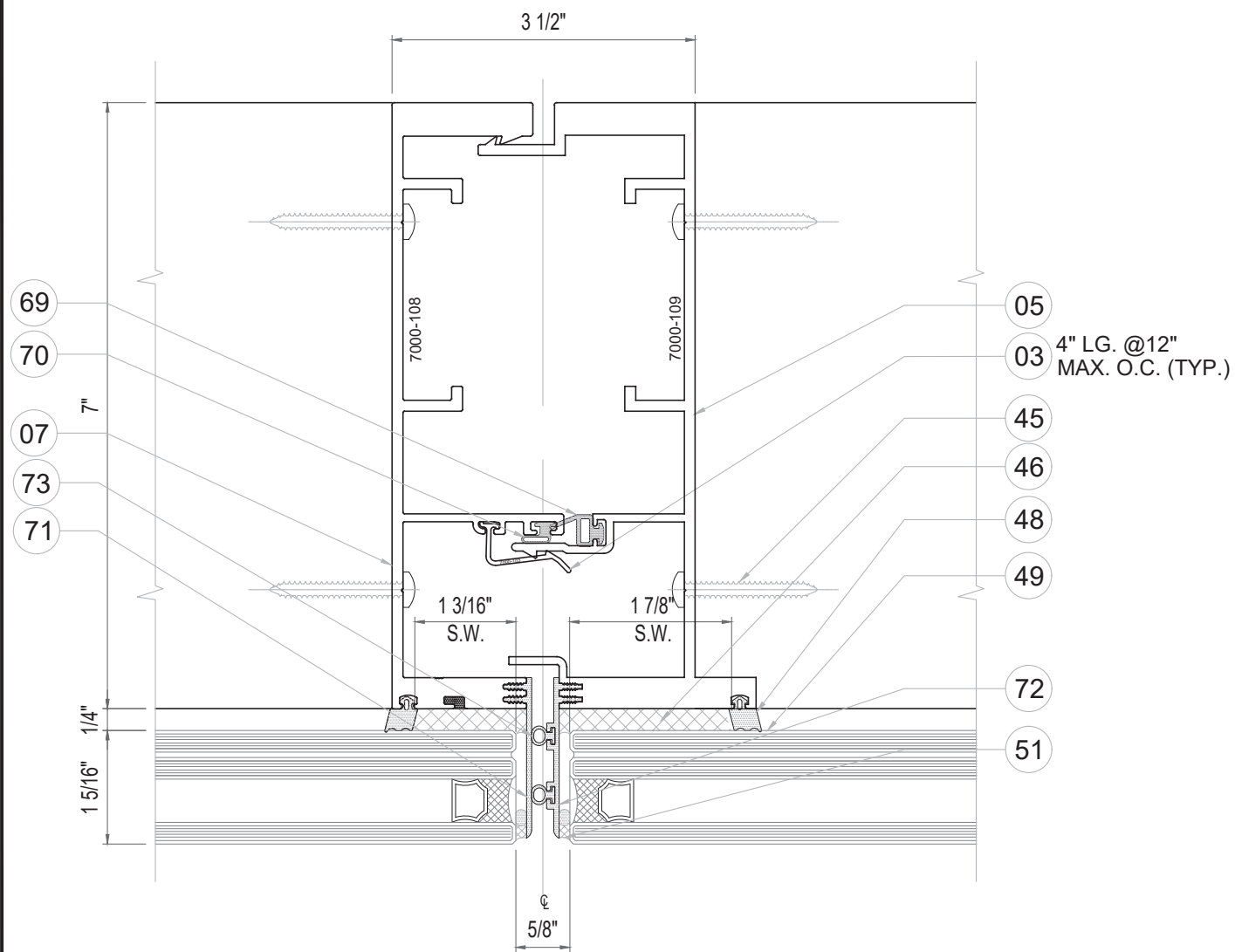
YOUNG WANG
P.E. #55983
CA #55983
FLORIDA REGISTERED
PROFESSIONAL ENGINEER
September 19th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

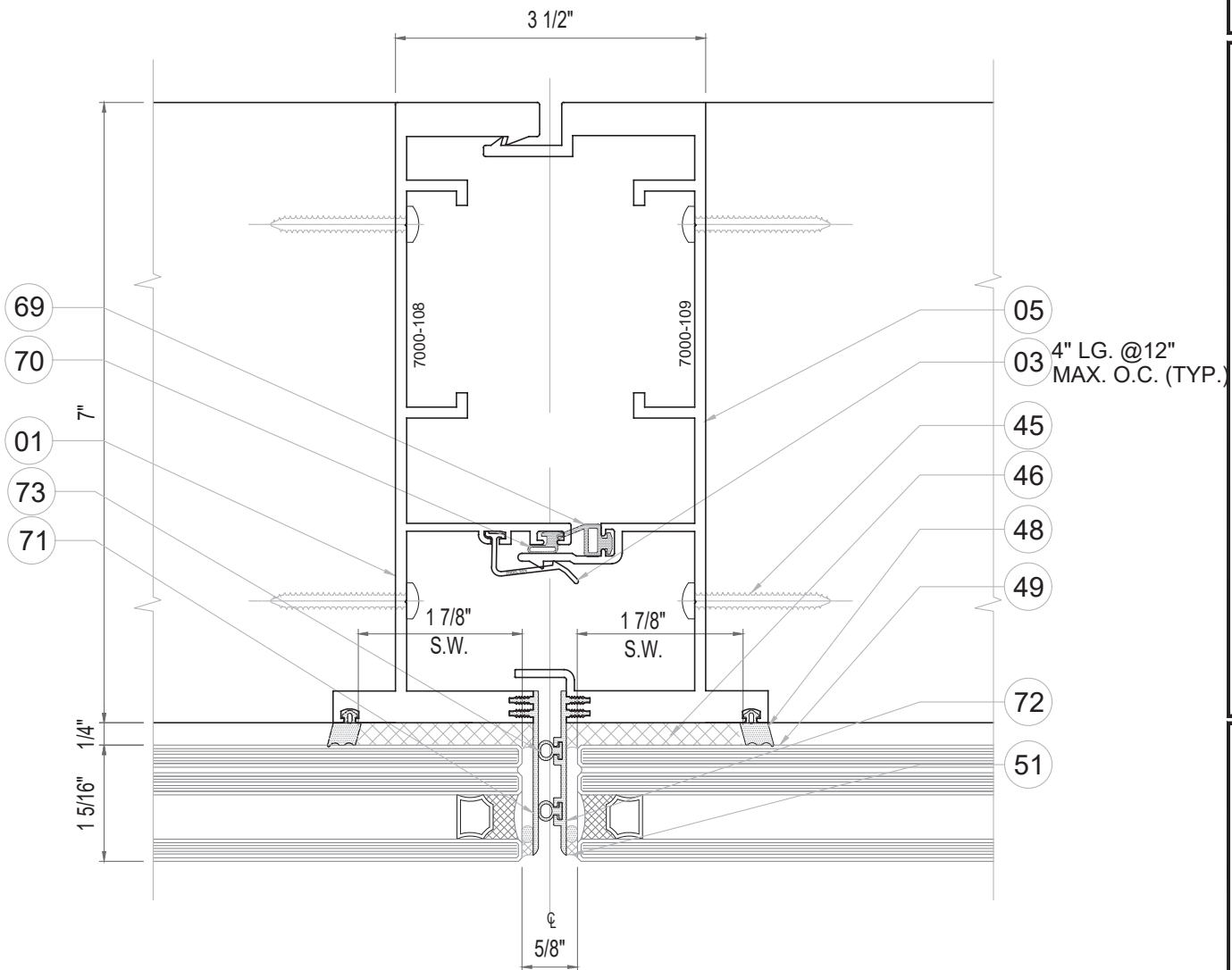
MCY
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
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MCY@mcyengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-08
SHEET	10 OF 38



2A
10A TYP. MULLION BUTT GLAZED



2B
10A TYP. MULLION BUTT GLAZED
FOR 187PSF

FLORIDA APPROVAL:
FL#28879.2

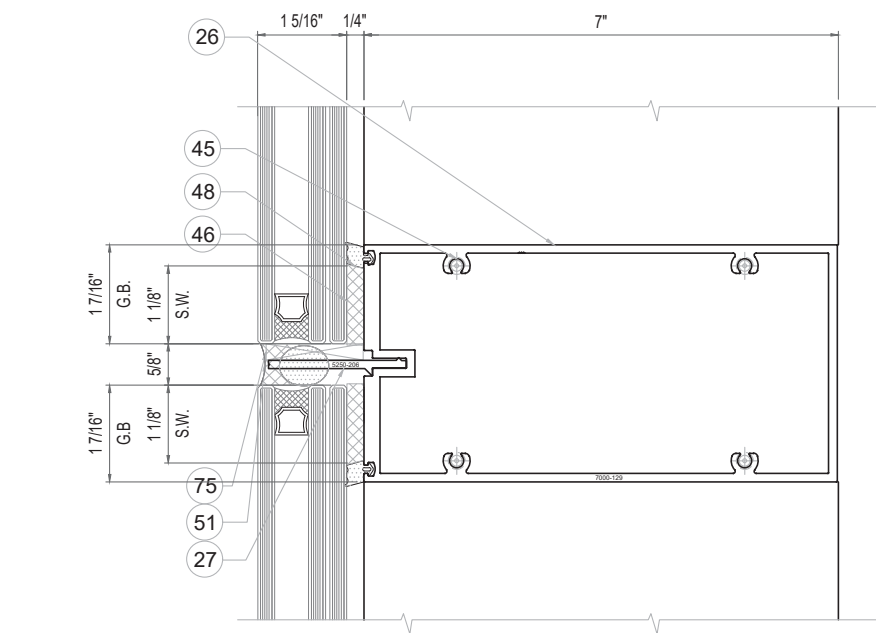
September 19th, 2023

REVISIONS	
NO.	DATE
R2	09.19.2023
	FBC 2023

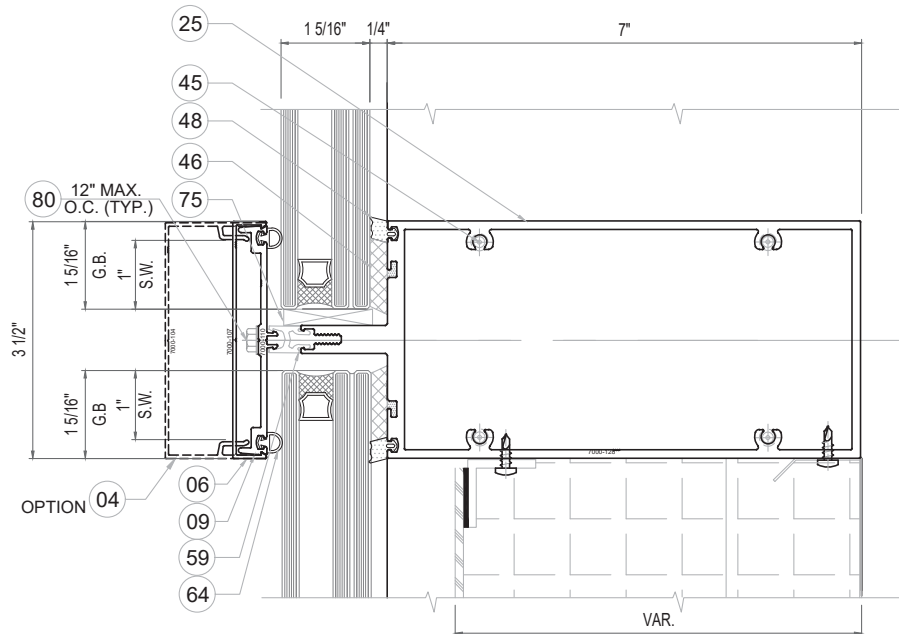
MCY
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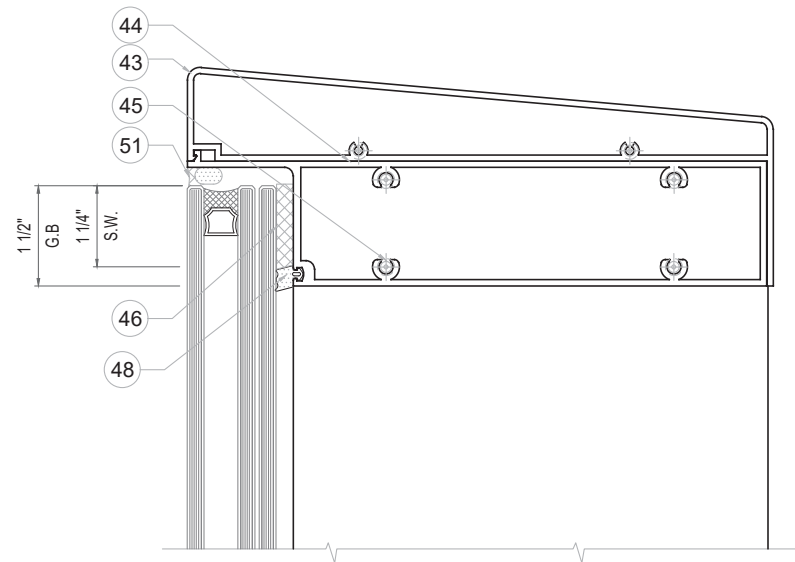
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SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-08	
SHEET 10A OF 38	



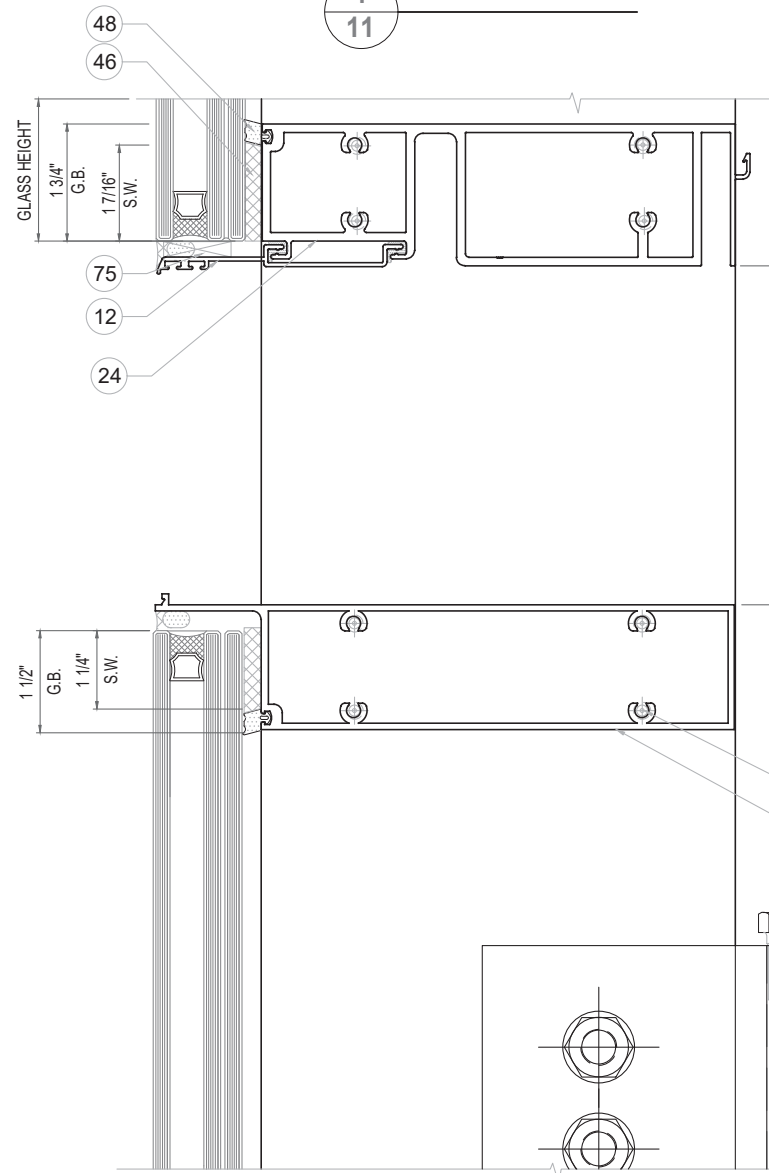
3 HORIZONTAL BUTT GLAZED
11 OPTION 1



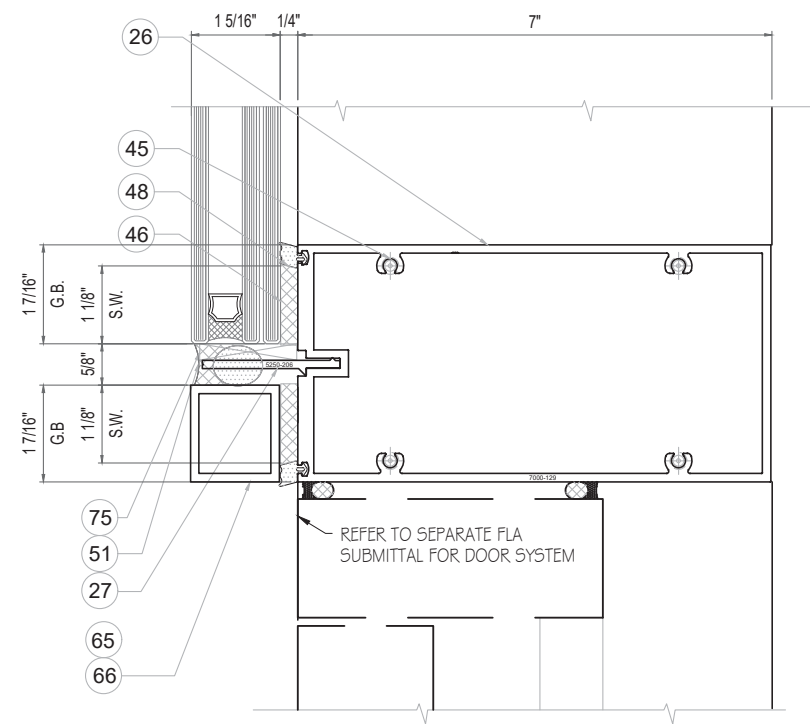
3 HORIZONTAL CAPTURED
11 OPTION 2



4 PARAPET HEAD
11



5 CANTILEVER HORIZONTAL
11 WATERPROOFING BY OTHERS
NOT COVERED BY THIS APPROVAL



3A HORIZONTAL BUTT GLAZED
11

FLORIDA APPROVAL:
FL#28879.2

YANG, WANG, P.E.
FLORIDA REGISTRATION
PE #55983
CA #55983
No. 28877
September 19th, 2023

SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE 09.19.2023
SCALE AS NOTED
DRAWN James
PROJECT MCY19-010

DRAWING NO.
AD19-08

SHEET 11 OF 38

MCY ENGINEERING, INC.
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MCY@mcycengineering.com

REVISIONS	
NO.	DATE
R2	09.19.2023
DESCRIPTION	
FBC 2023	



**(2) 3/4" TAP DRILLED
THREADED BOLT GRADE 5
W/WASHER**

TOP OF SUBSTRATE

**3/16" THK. ALUM.
PLATE(6063-T6)
(SHUG FIT)**

**(81) (4) 1/2" DIA. BOLTS
W/ WASHERS & NUTS**

**REFER TO SHEETS 9 & 10
FOR TYPICAL MULLION
EXTRUSION OPTIONS**

**(03) 4" LG. @12"
MAX. O.C. (TYP.)**

(72)

(46)

(48)

(69)

(70)

(73)

(71)

1 3/16" S.W.

1 3/16" S.W.

**1 7/16" G.B.
TYP.**

5/8"

**1 7/16" G.B.
TYP.**

A-A SECTION

YONG WANG P.E.
FLORIDA REGISTRATION
PE #55983
C.A.#528677

REVISIONS		
NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

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MIRAMAR FL 33027 F: 305.588.5224

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SERIES 7000 ALUMINUM CURTAIN WALL - SMI

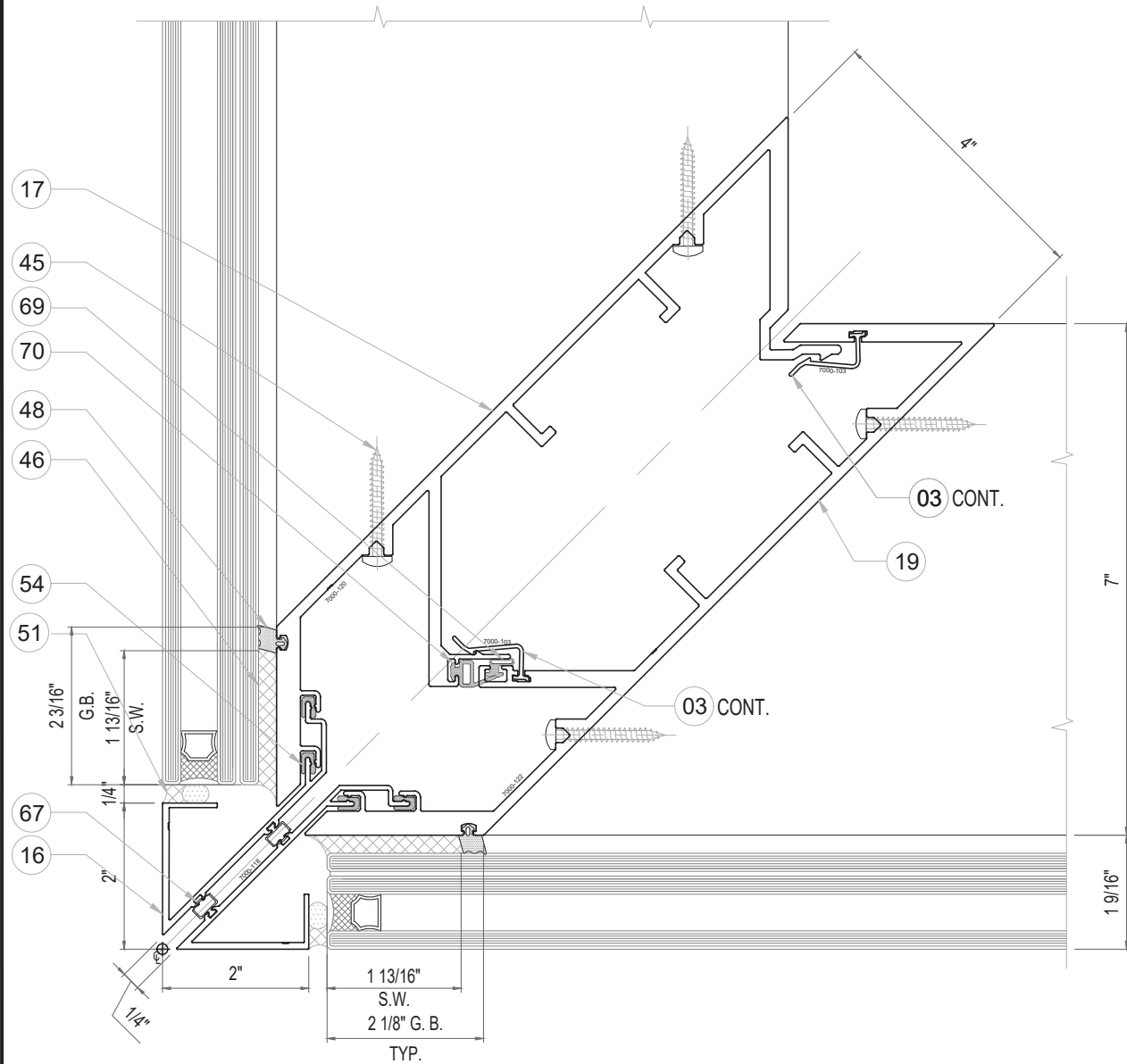
TECNOGLASS, LLC.

3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
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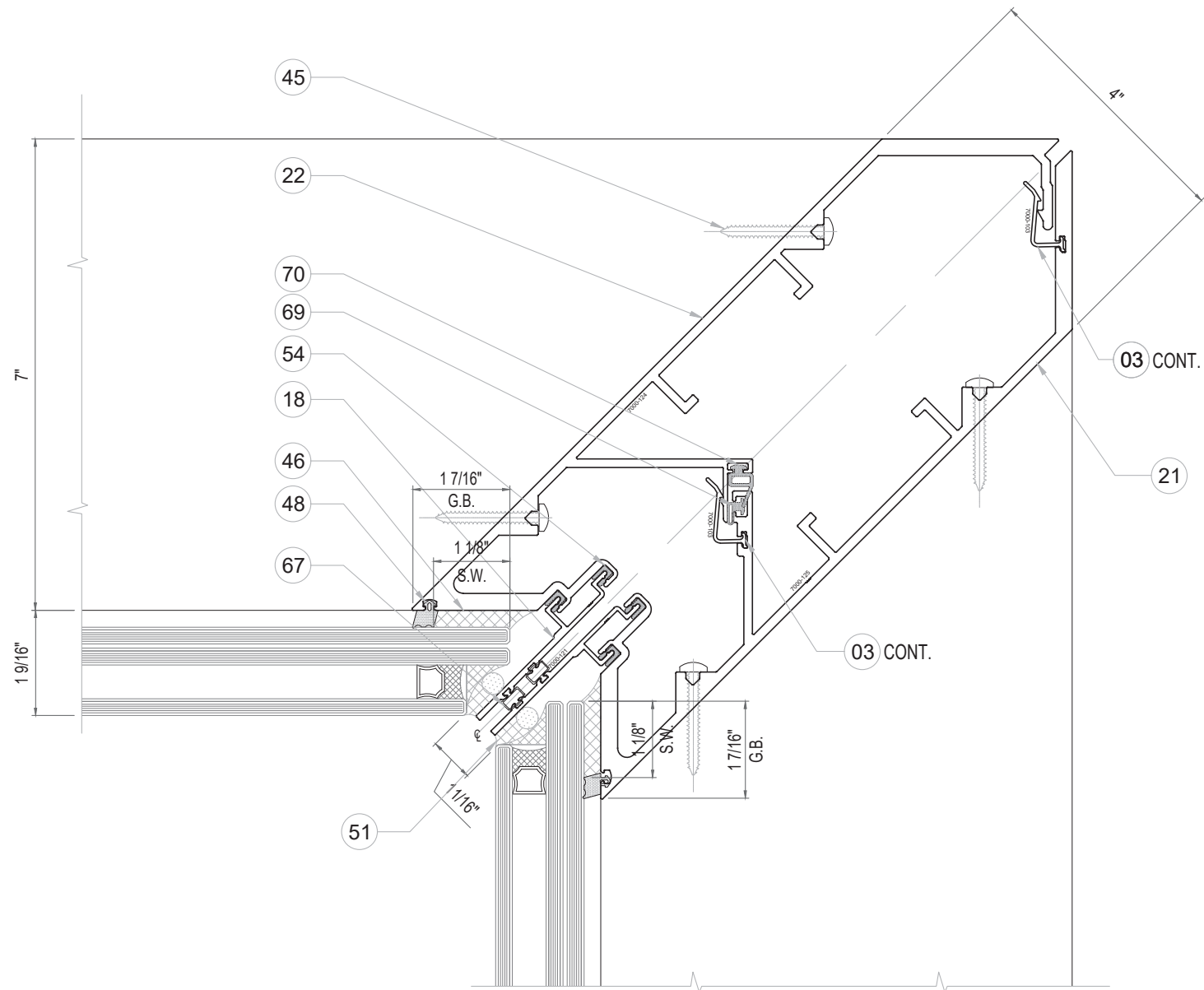
SHEET 11A OF 38



6
12

OUTSIDE CORNER MULLION

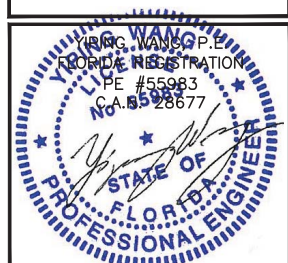
NOTE:
REFER TO SHEETS 6 & 7 FOR TYP.
CORNER MULLION SPANS, REINF.
AND DESIGN LOAD REQUIRED



6A
12

INSIDE CORNER MULLION

FLORIDA APPROVAL:
FL#28879.2



September 19th, 2023

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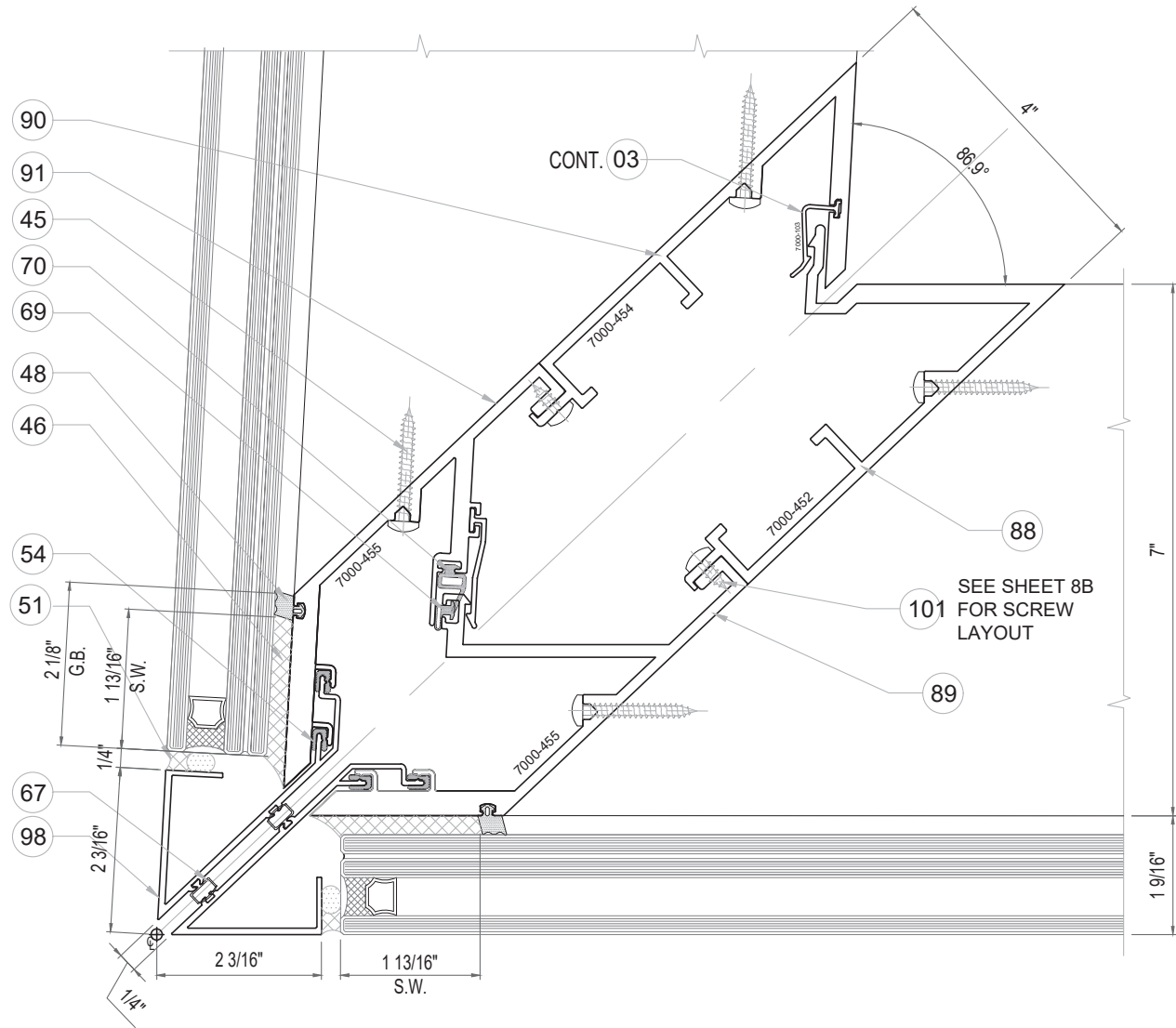
SHEET 12 OF 38

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301 P: 305.271.0117
MIRAMAR FL33027 F: 305.588.5224

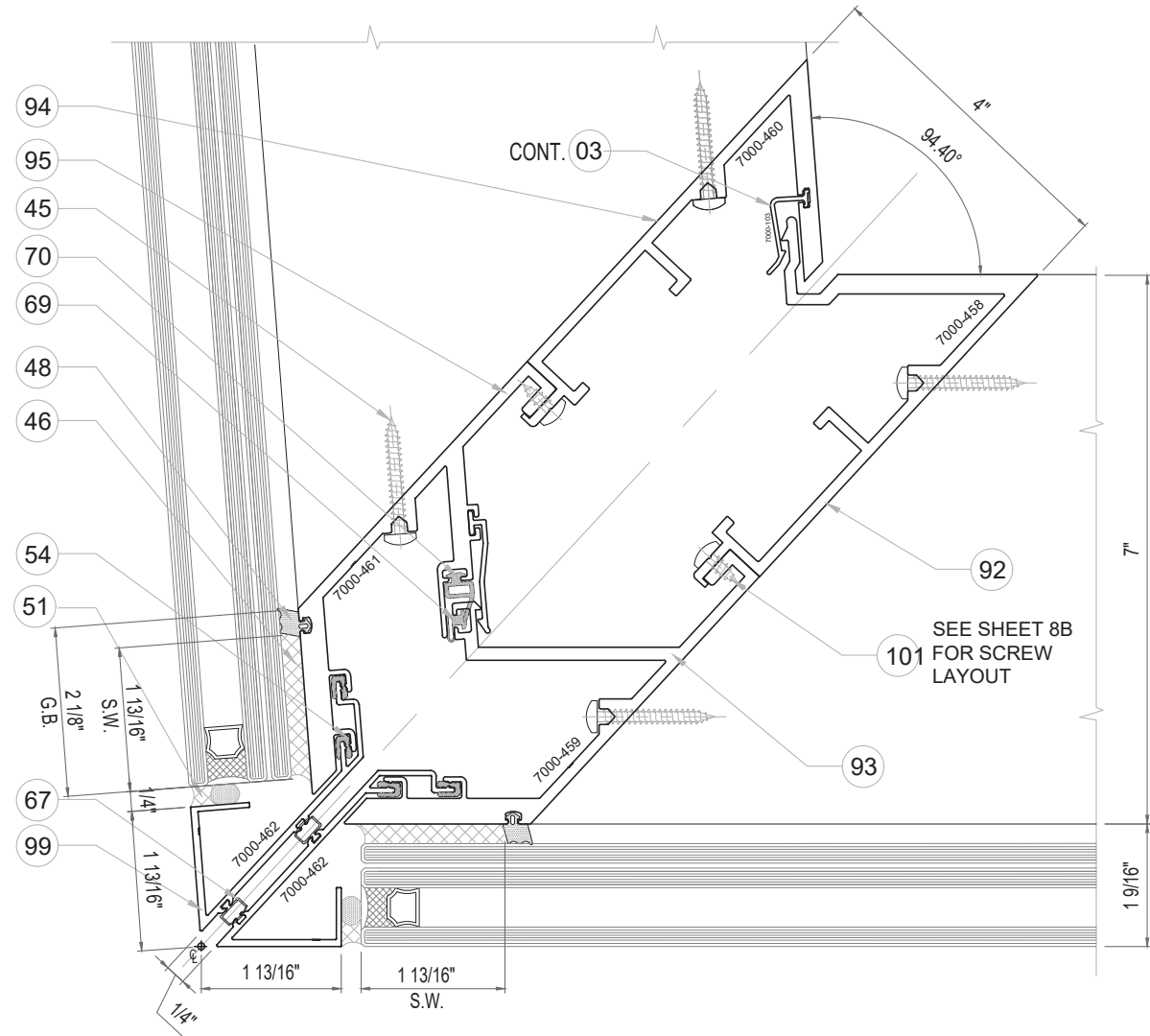
www.MCYEngineering.com MCY@mcycngineering.com

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023



6A
12A OUTSIDE CORNER MULLION (86.90°)

NOTE:
REFER TO SHEETS 8B FOR TYP.
CORNER MULLION SPANS, REINF.
AND DESIGN LOAD REQUIRED



6B
12A OUTSIDE CORNER MULLION (94.40°)

FLORIDA APPROVAL:
FL#28879.2

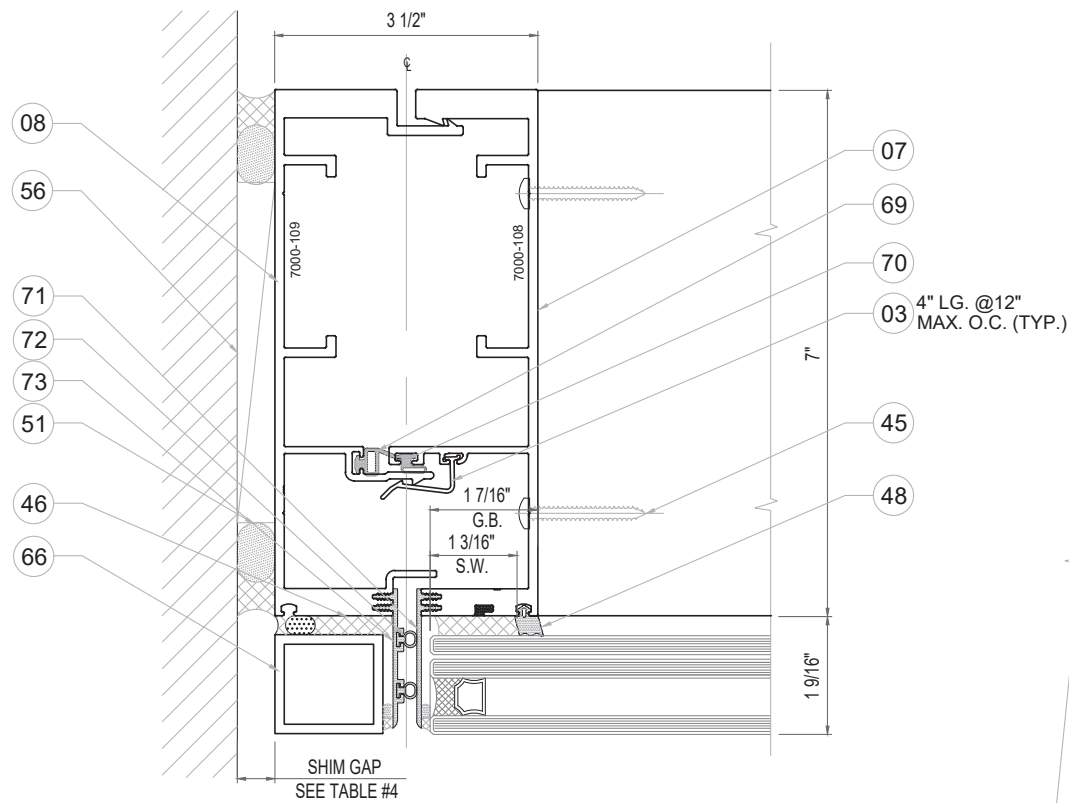
YANG, WANG, P.E.
FLORIDA REGISTRATION
PE #55983
CA #55983
September 19th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

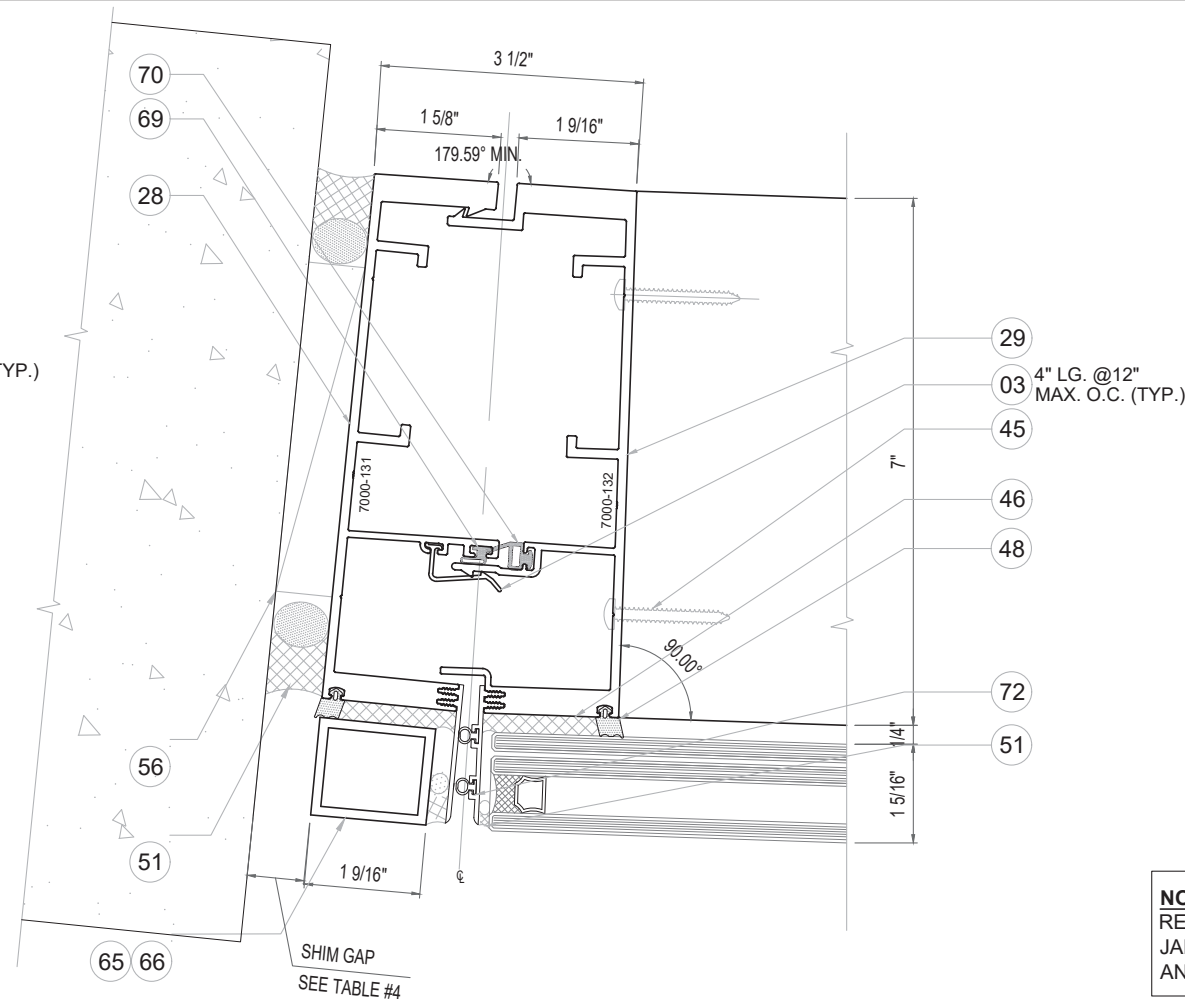
MCY
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 305.271.0117
MIRAMAR FL 33027 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-08
SHEET	12A OF 38



7
13 TYP. JAMB BUTT GLAZED
OPTION 1



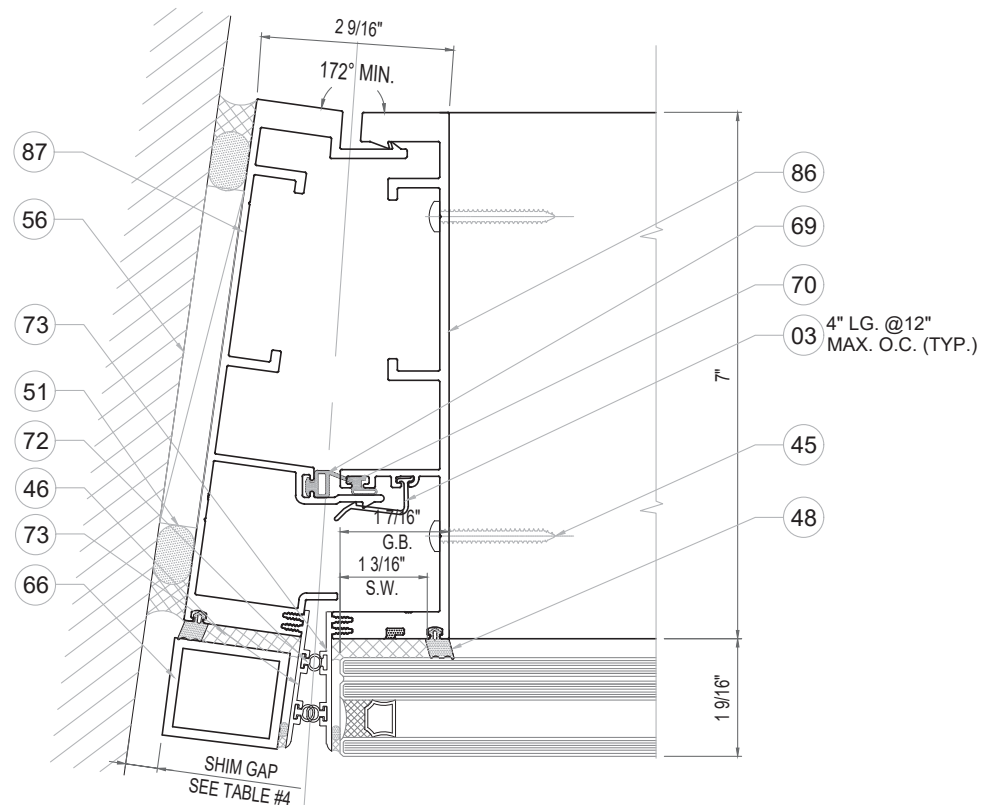
7
13 TYP. JAMB CURVED
OPTION 2

NOTE:
REFER TO SHEETS 6, 7 & 8A FOR TYP.
JAMB SPANS, REINFORCEMENT
AND DESIGN LOAD REQUIRED

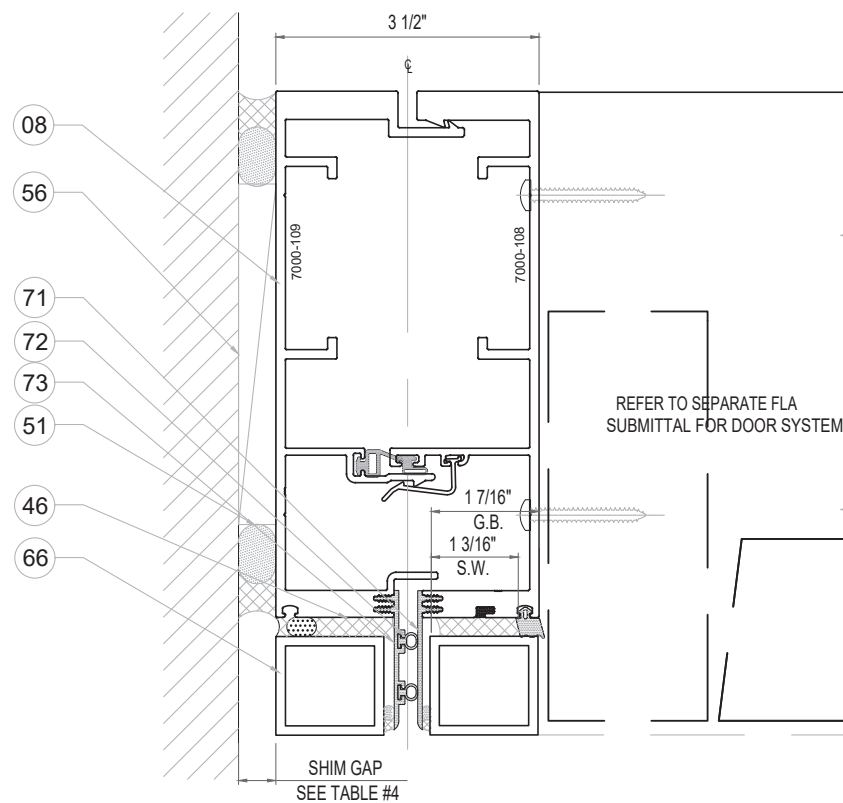
TABLE #4: MIN/MAX SHIM GAP

JAMB SPAN*	MIN. GAP	MAX. GAP
≤ 120"	0.38"	0.75"
132"	0.42"	0.75"
144"	0.46"	0.75"
156"	0.5"	0.75"
168"	0.54"	0.75"
180"	0.58"	0.75"
192"	0.62"	0.75"
204"	0.65"	0.75"
208"	0.67"	0.75"

*JAMB SPAN: - ANCHOR ℓ TO ℓ



7
13 TYP. JAMB BUTT GLAZED
OPTION 3



7A
13 TYP. DOOR JAMB
FOR SINGLE SPAN.

FLORIDA APPROVAL:
FL#28879.2

YOUNG WANG P.E.
FLORIDA REGISTRATION
PE #55983
CA 95586
28677
September 19th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

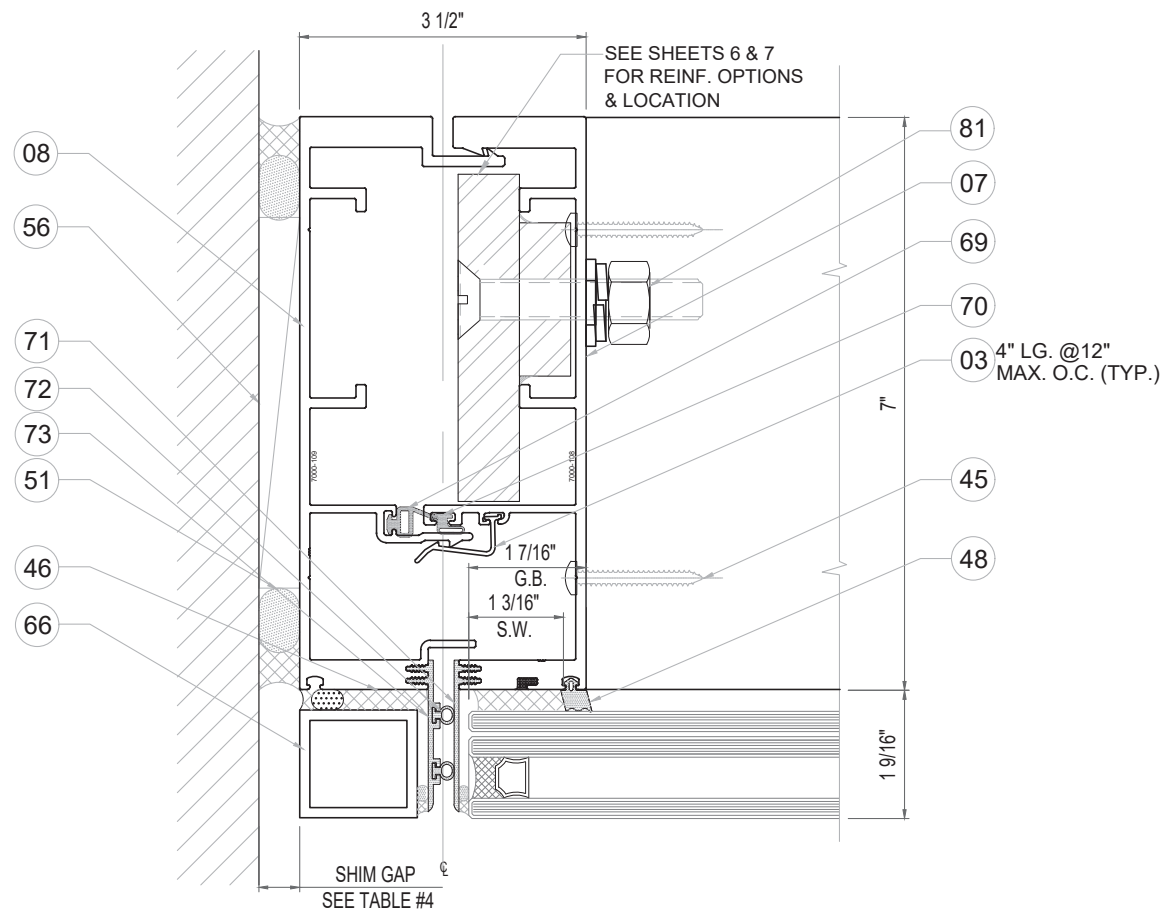
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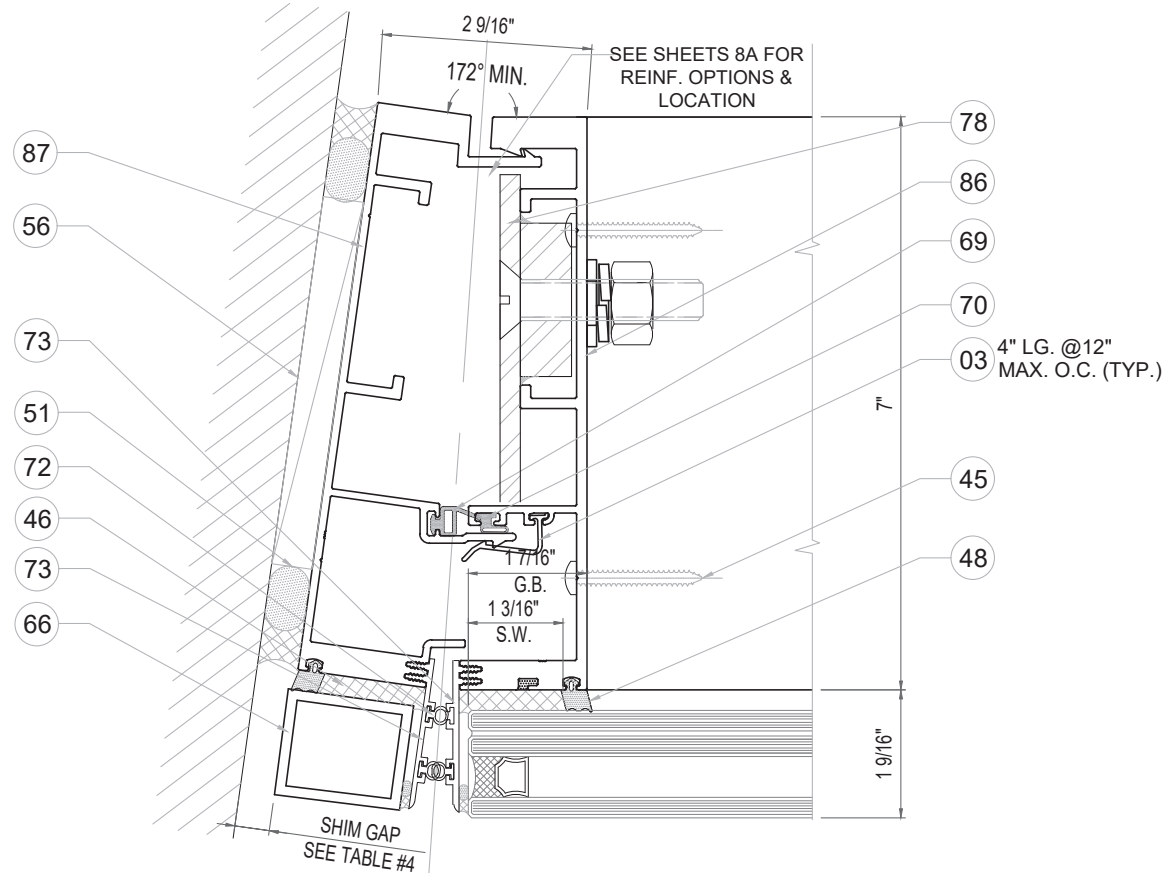
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08

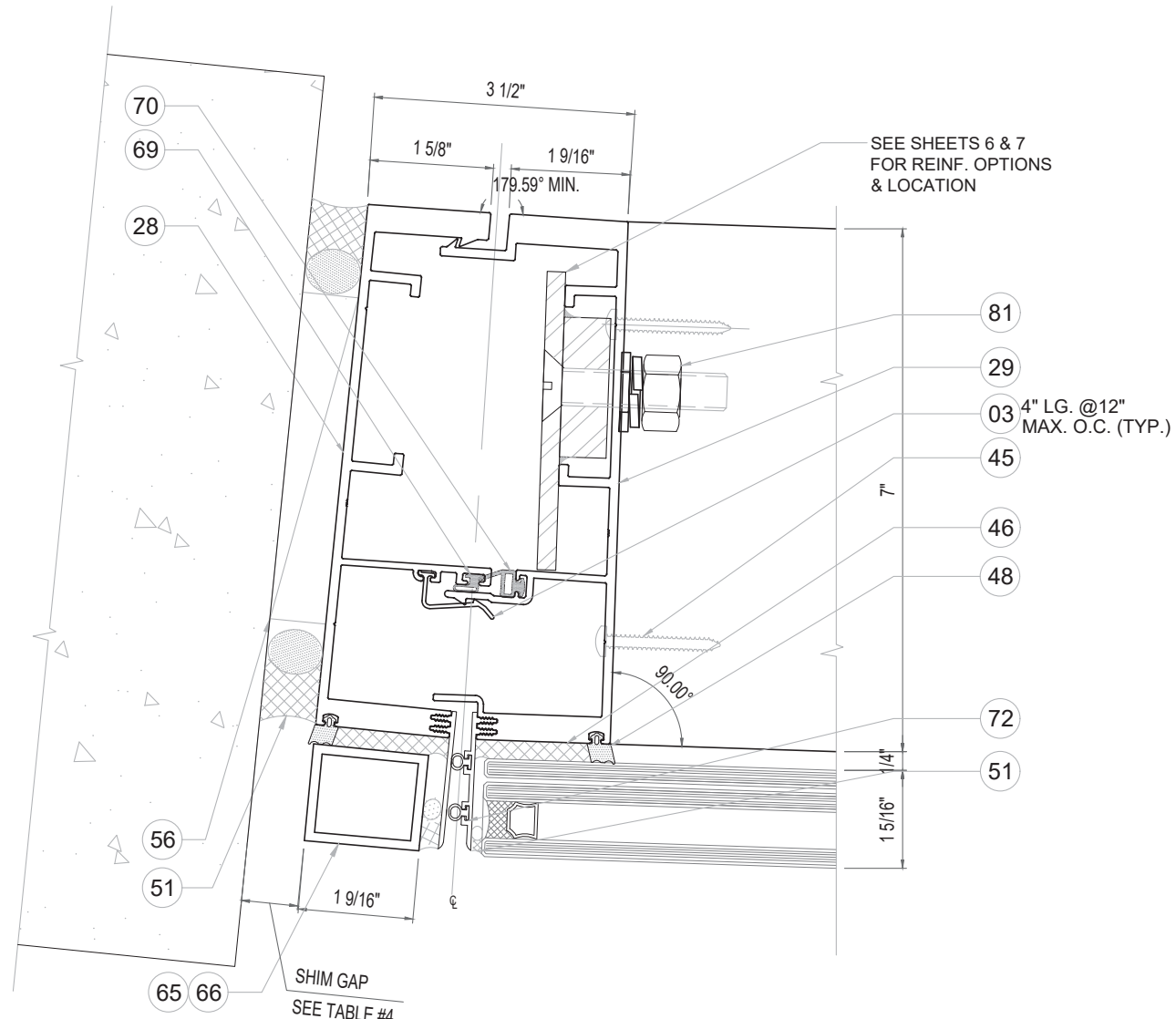
SHEET 13 OF 38



8 TYP. JAMB BUTT GLAZED W/ REINF.
14 OPTION 1



8 TYP. JAMB BUTT GLAZED W/ REINF.
14 OPTION 3



8 TYP. JAMB CURVED W/ REINF.
14 OPTION 2

NOTE:
REFER TO SHEETS 6, 7 & 8A FOR TYP.
JAMB SPANS, REINFORCEMENT
AND DESIGN LOAD REQUIRED

TABLE #4: MIN/MAX SHIM GAP

JAMB SPAN*	MIN. GAP	MAX. GAP
≤ 120"	0.38"	0.75"
132"	0.42"	0.75"
144"	0.46"	0.75"
156"	0.5"	0.75"
168"	0.54"	0.75"
180"	0.58"	0.75"
192"	0.62"	0.75"
204"	0.65"	0.75"
208"	0.67"	0.75"

*JAMB SPAN: - ANCHOR ϕ TO ϕ

FLORIDA APPROVAL:
FL#28879.2

YOUNG WANG P.E.
FLORIDA REGISTRATION
PE #55983
CA #55983
September 19th, 2023

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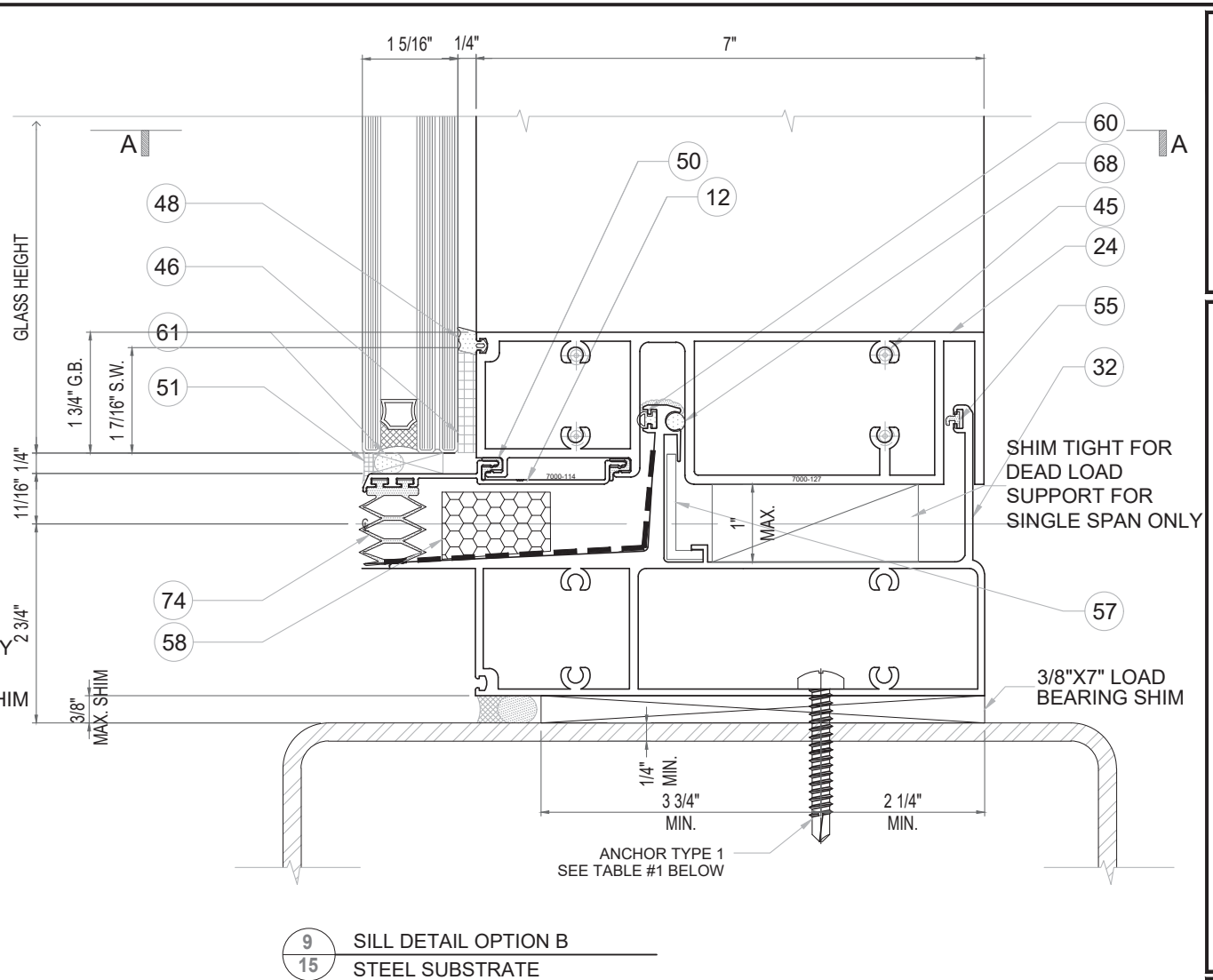
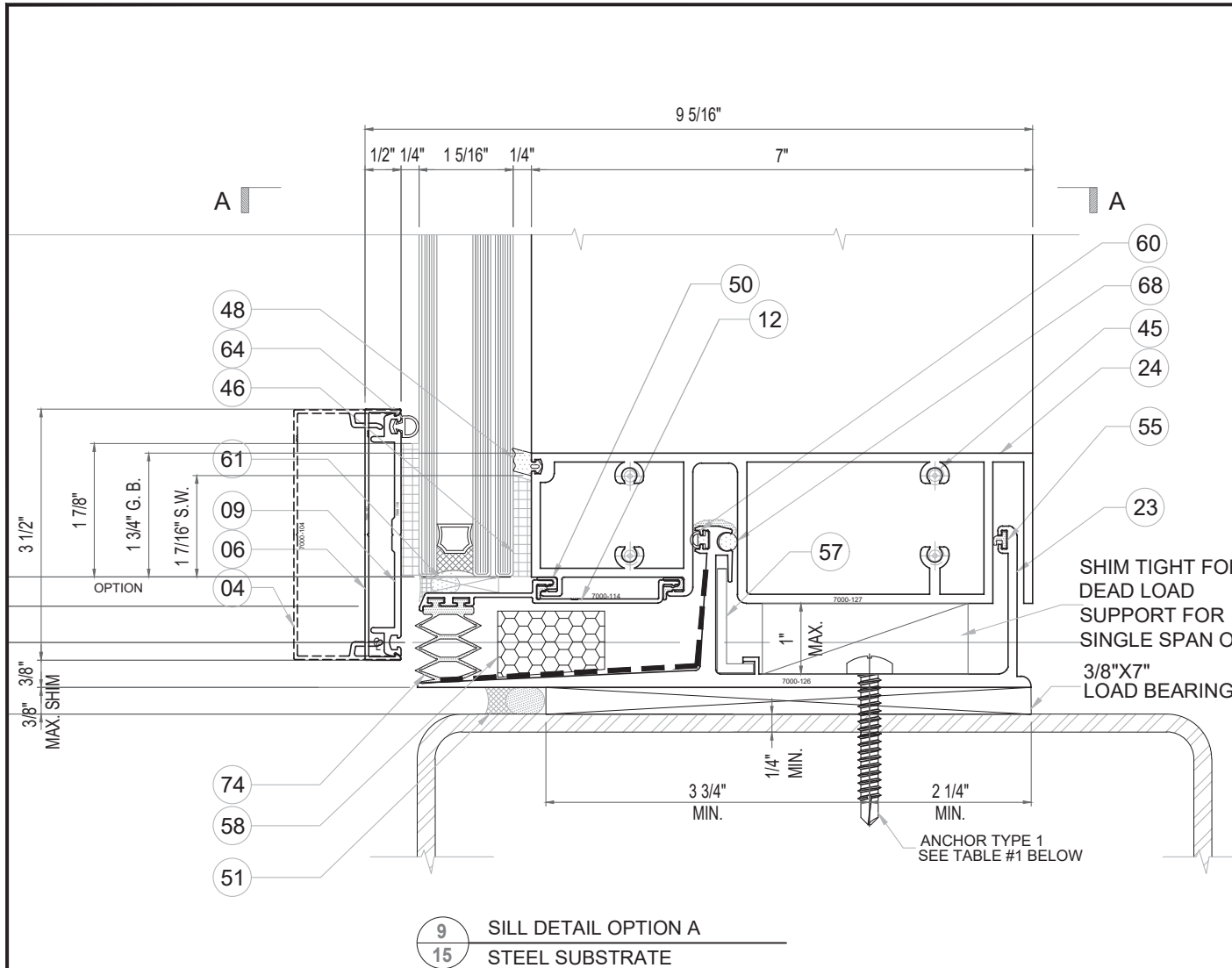
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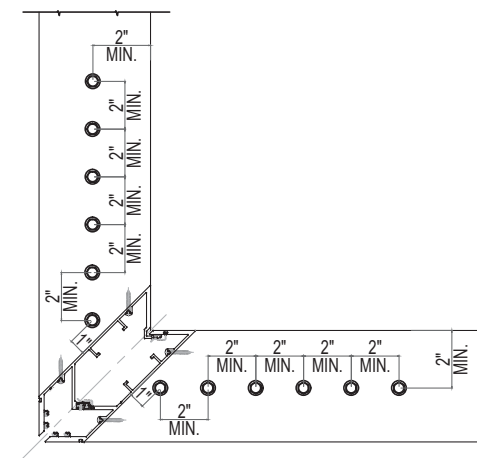
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08

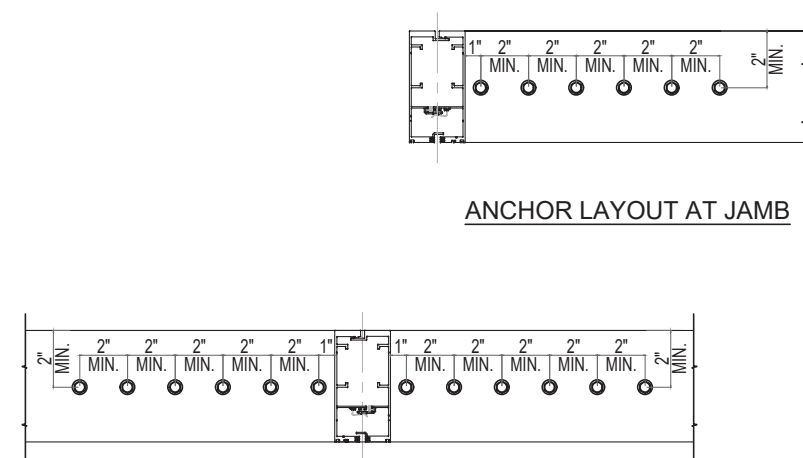
SHEET 14 OF 38



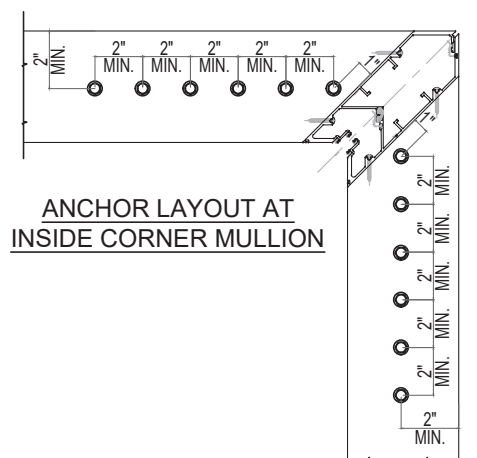
	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M. S.)				
	(in)	(in)	(in)	(in)	(in)	(in)
AO#1 (4200 lbs)	120	187	187	187	187	168
	126	187	187	187	178	160
	132	187	187	187	170	153
	138	187	187	183	162	146
	144	187	187	175	156	140
AO#2 (3500 lbs)	120	187	187	175	156	140
	126	187	187	167	148	133
	132	187	182	159	141	127
	138	187	174	152	135	122
	144	187	167	146	130	117
AO#3 (2800 lbs)	120	187	160	140	124	112
	126	178	152	133	119	107
	132	170	145	127	113	102
	138	162	139	122	108	97
	144	156	133	117	104	93



ANCHOR LAYOUT AT
OUTSIDE CORNER MULLION



ANCHOR LAYOUT AT
TYP. MULLION



ANCHOR LAYOUT AT
INSIDE CORNER MULLION

SECTION A-A

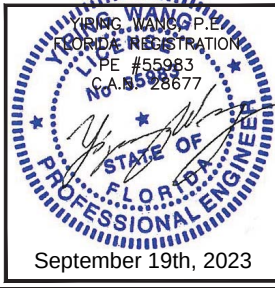
ANCHOR TYPE 1 :5/16" SELF DRILLING SCREWS
(GRADE 5 Fu=120ksi Fy=92ksi)
INTO METAL STRUCTURES
STEEL : 1/4" MIN. THICKNESS (Fy= 36 ksi MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED
OR PAINTED)
(3) THREADS MIN. PENETRATION BEYOND METAL
SUBSTRATE

TABLE #1: NO. OF ANCHOR TYPE 1-SILL ANCHOR.

ANCHOR OPTIONS (Rmax. LBS)	OPTION A	OPTION B
	NO. OF ANCHORS @EA.SIDE OF MULL.	NO. OF ANCHORS @EA.SIDE OF MULL.
	ANCHOR TYPE 1	ANCHOR TYPE 1
AO#1 (4200)	6	6
AO#2 (3500)	5	5
AO#3 (2800)	4	4

FOR AO#1, AO#2 & AO#3 ANCHOR CAPACITY VS. SPAN
AND MULLION SPACING SEE CHART ON THE LEFT.

FLORIDA APPROVAL:
FL#28879.2

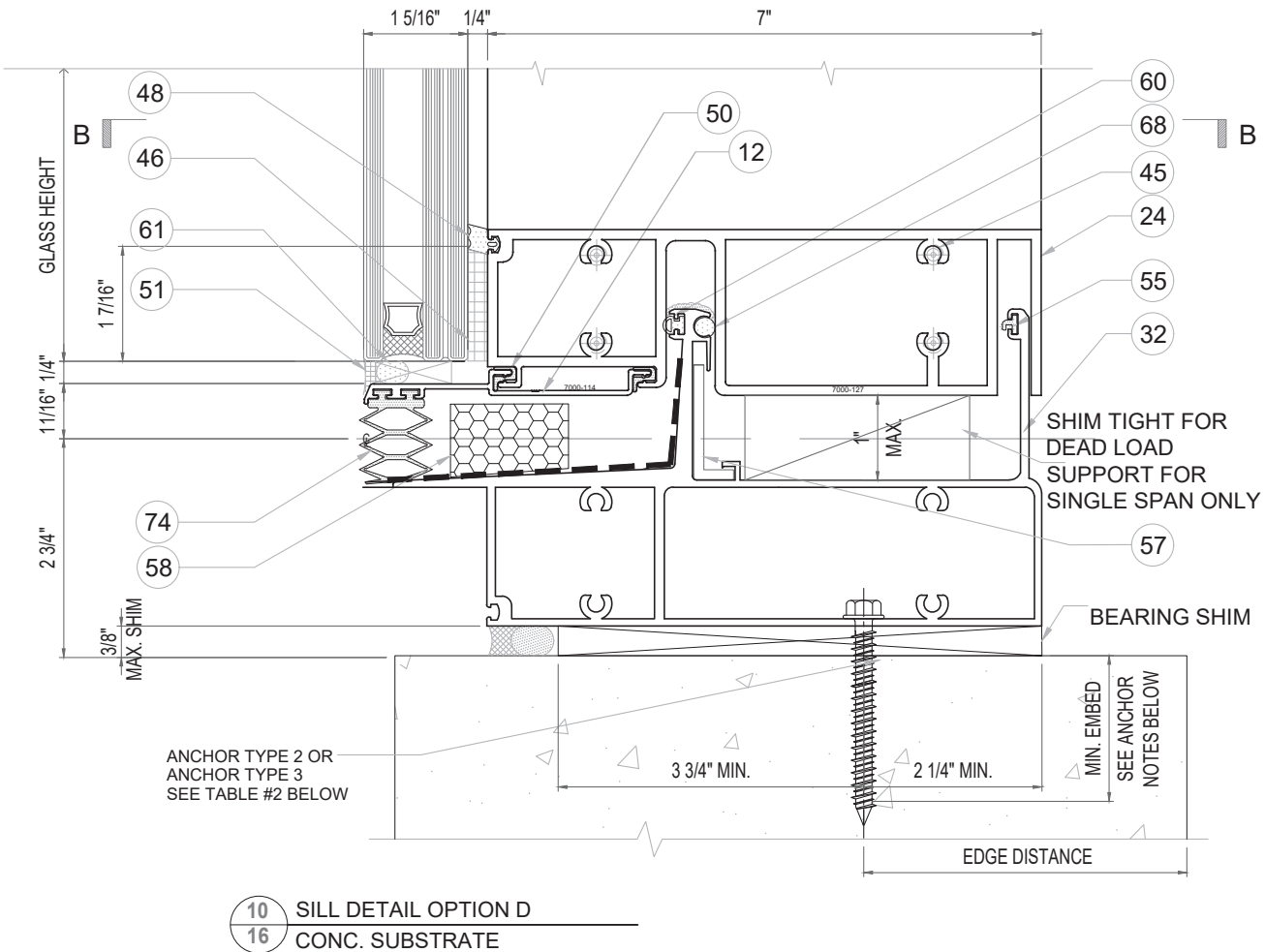
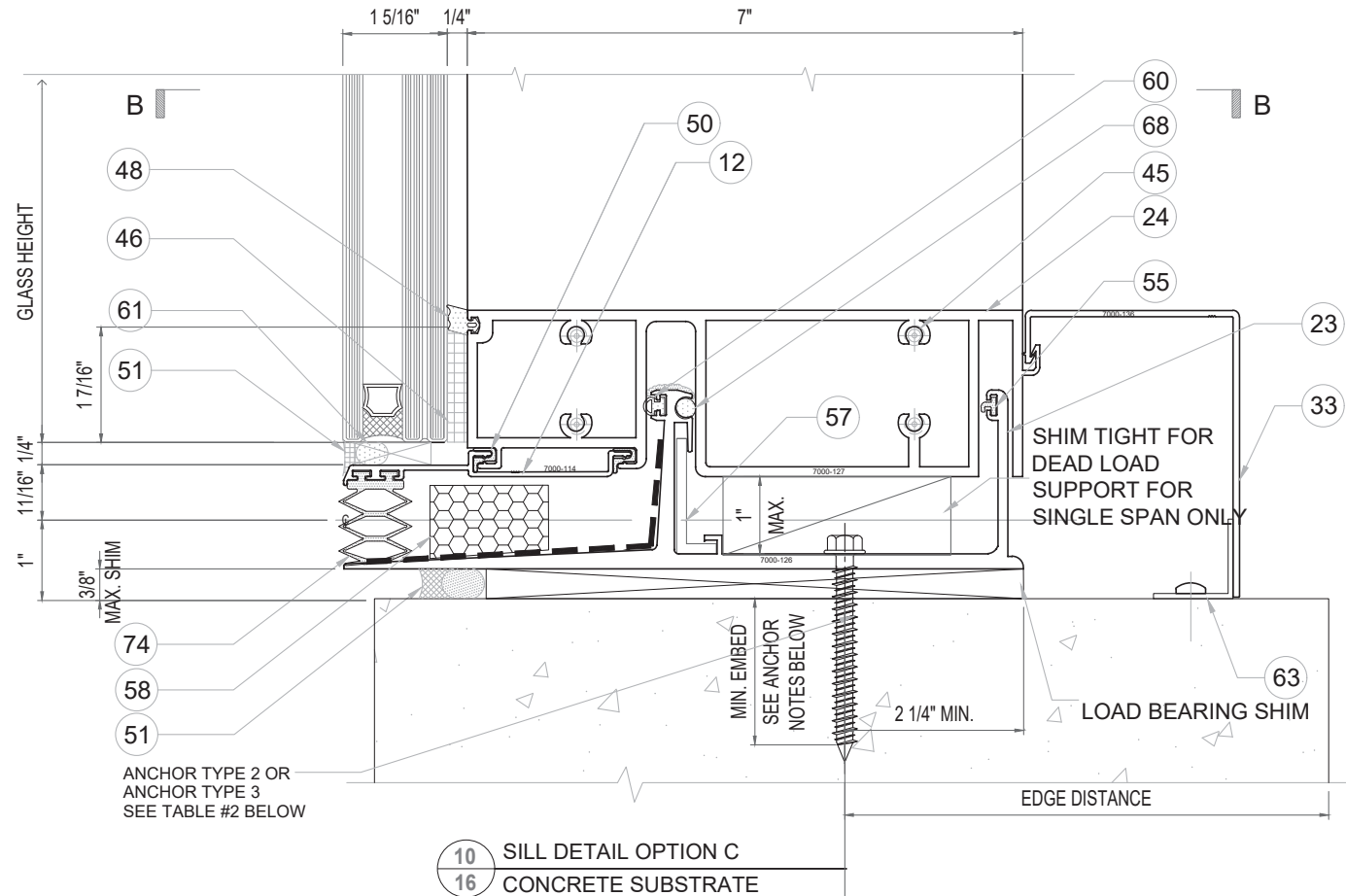


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NO. DATE DESCRIPTION
R2 09.19.2023 FBC 2023

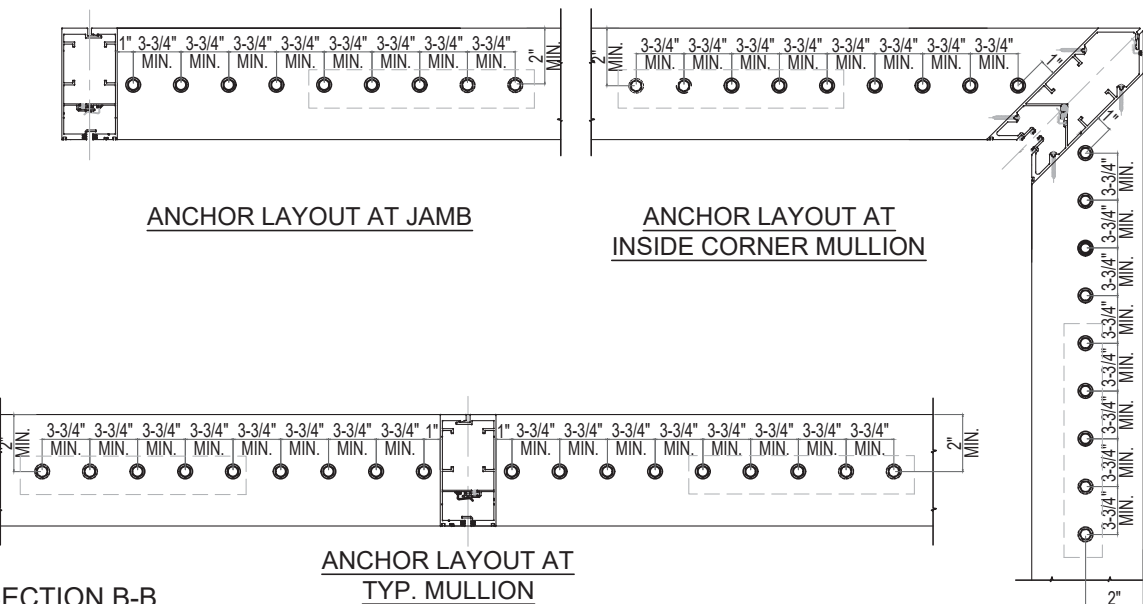
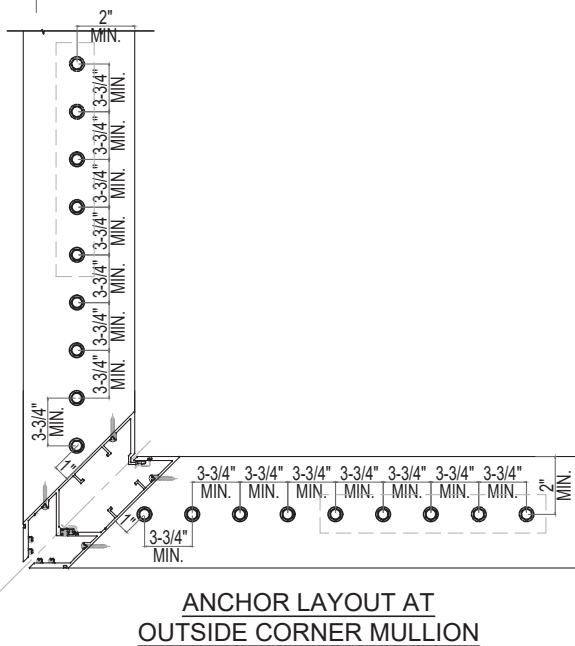
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Phone (305) 342-0890 Fax (786) 513-3965

DATE 09.19.2023
SCALE AS NOTED
DRAWN James
PROJECT MCY19-010
DRAWING NO. AD19-08
SHEET 15 OF 38



	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M.S.)				
	(in)	36	42	48	54	60
AO#1 (4200 lbs)	120	187	187	187	187	168
	126	187	187	187	178	160
	132	187	187	187	170	153
	138	187	187	183	162	146
	144	187	187	175	156	140
AO#2 (3500 lbs)	120	187	187	175	156	140
	126	187	187	167	148	133
	132	187	182	159	141	127
	138	187	174	152	135	122
	144	187	167	146	130	117
AO#3 (2800 lbs)	120	187	160	140	124	112
	126	178	152	133	119	107
	132	170	145	127	113	102
	138	162	139	122	108	97
	144	156	133	117	104	93
AO#4 (2300 lbs)	120	153	131	115	102	92
	126	146	125	110	97	88
	132	139	119	105	93	84
	138	133	114	100	89	80
	144	128	110	96	85	77



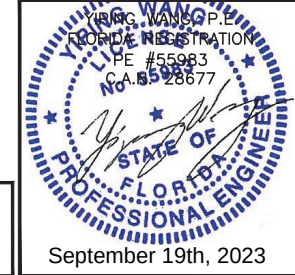
ANCHOR TYPE 2: 5/16" DIA. ULTRACON BY DEWALT (Fu=177ksi Fy=155ksi)
DIRECTLY INTO CONCRETE f'c = 3515 psi MIN.
1-3/4" MIN. EMBED. INTO CONCRETE
3-1/8" MIN. EDGE DISTANCE

ANCHOR TYPE 3: 3/8" DIA. WEDGE BOLT BY POWER (Fu=100ksi Fy=65ksi)
DIRECTLY INTO CONCRETE f'c=4000psi MIN.
1-3/4" MIN. EMBED. INTO CONCRETE
3" MIN. EDGE DISTANCE

ANCHOR OPTIONS (Rmax. LBS)	OPTION C		OPTION D	
	NO. OF ANCHORS @EA.SIDE OF MULL.		NO. OF ANCHORS @EA.SIDE OF MULL.	
	ANCHOR TYPE 2	ANCHOR TYPE 3	ANCHOR TYPE 2	ANCHOR TYPE 3
AO#1 (4200)	7	7	9	8
AO#2 (3500)	6	5	8	6
AO#3 (2800)	5	4	6	5
AO#4 (2300)	4	4	5	4

FOR AO#1, AO#2, AO#3 & AO#4 ANCHOR CAPACITY VS. SPAN AND MULLION SPACING SEE CHART ON THE LEFT.

FLORIDA APPROVAL:
FL#28879.2

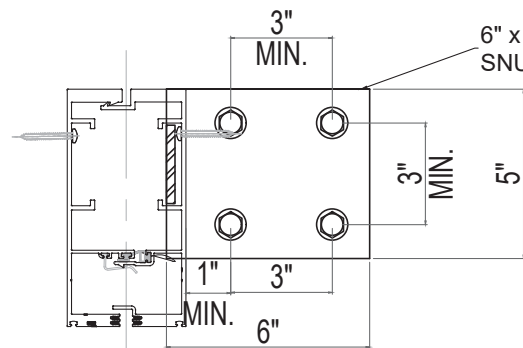


REVISIONS
NO. DATE DESCRIPTION
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GLAZING CONSULTANTS
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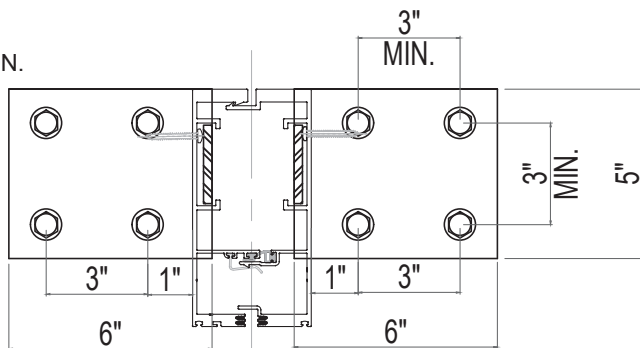
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE 09.19.2023
SCALE AS NOTED
DRAWN James
PROJECT MCY19-010
DRAWING NO. AD19-08
SHEET 16 OF 38

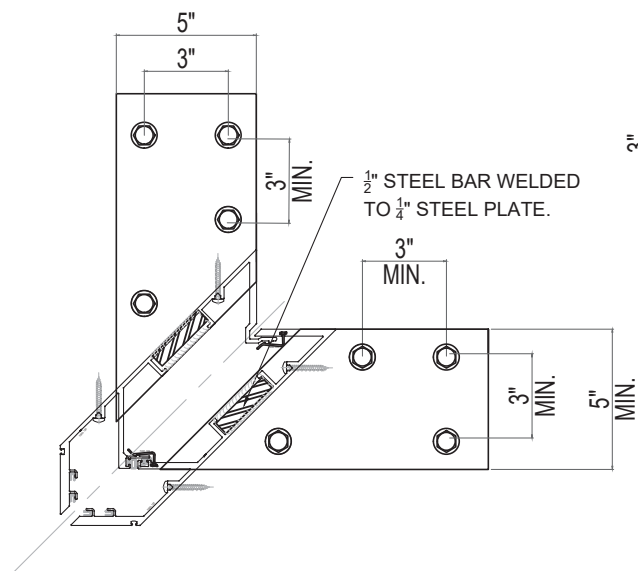


ANCHOR LAYOUT AT TYP. JAMB

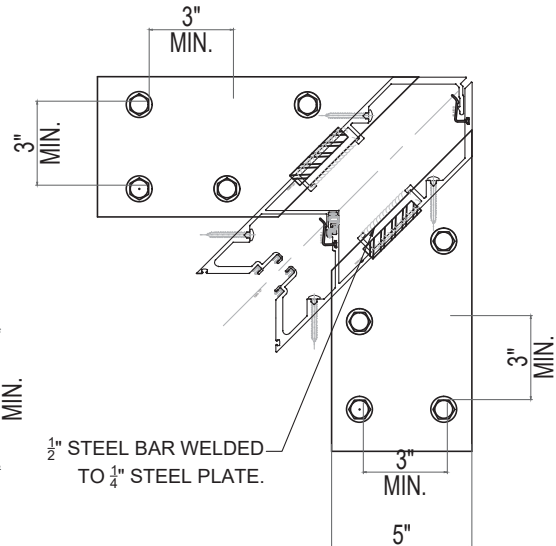
6" x 6' x 1/4" STL ANGLE
SNUG FIT INTO MULLION.



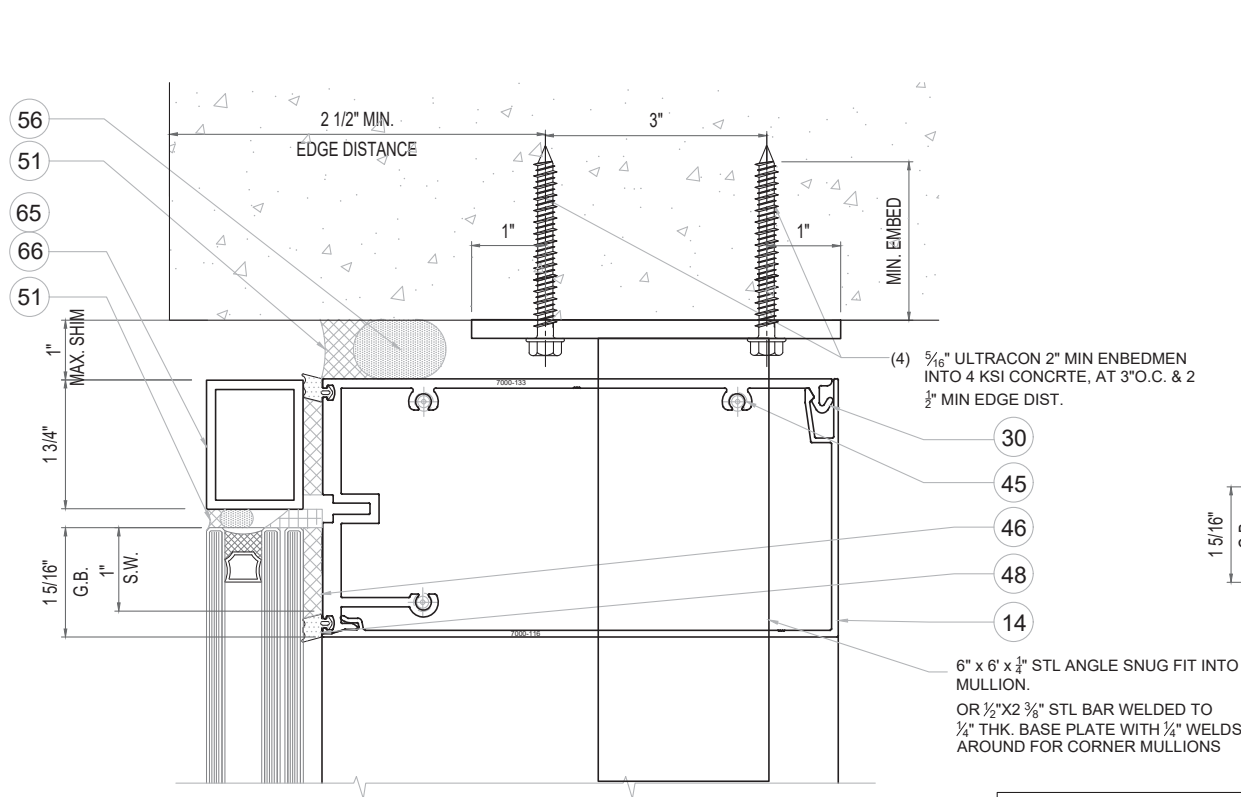
ANCHOR LAYOUT AT TYP. MULLION



ANCHOR LAYOUT AT
OUTSIDE CORNER
86.90°-90°-94.4° CORNER

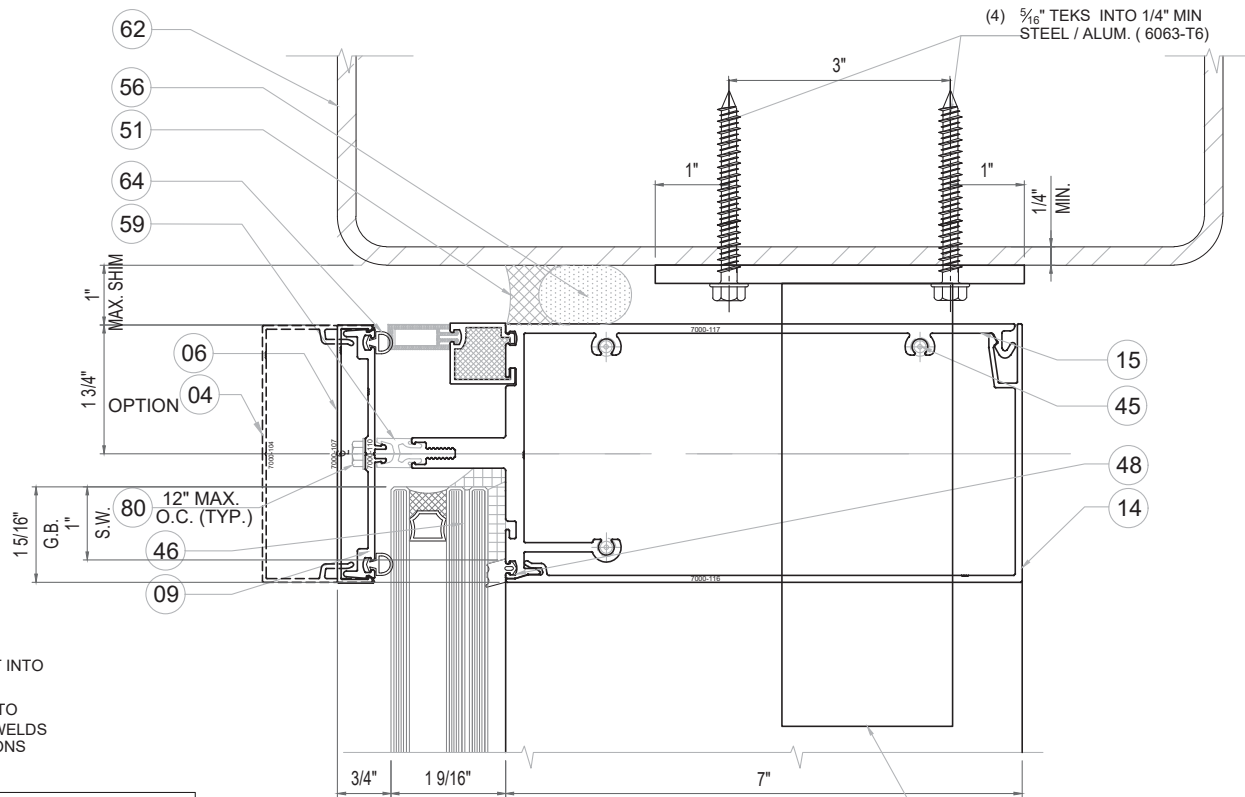


ANCHOR LAYOUT AT
INSIDE CORNER



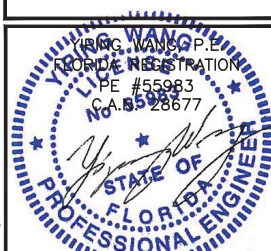
11 HEAD DETAIL OPTION A
17

NOTE:
BOTH BUTT GLAZED AND CAPTURED
HEAD OPTIONS CAN BE ANCHORED
INTO CONCRETE OR STEEL



11 HEAD DETAIL OPTION B
17

FLORIDA APPROVAL:
FL#28879.2



September 19th, 2023

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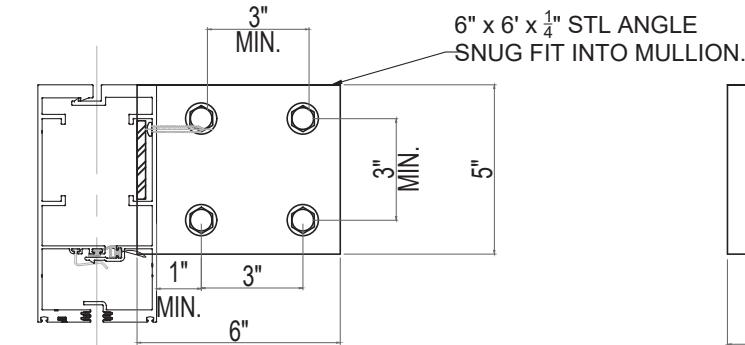
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI

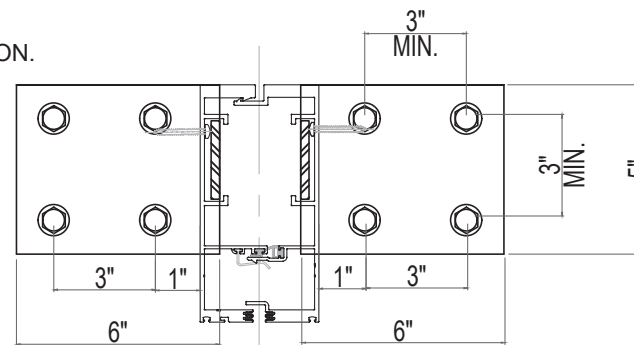
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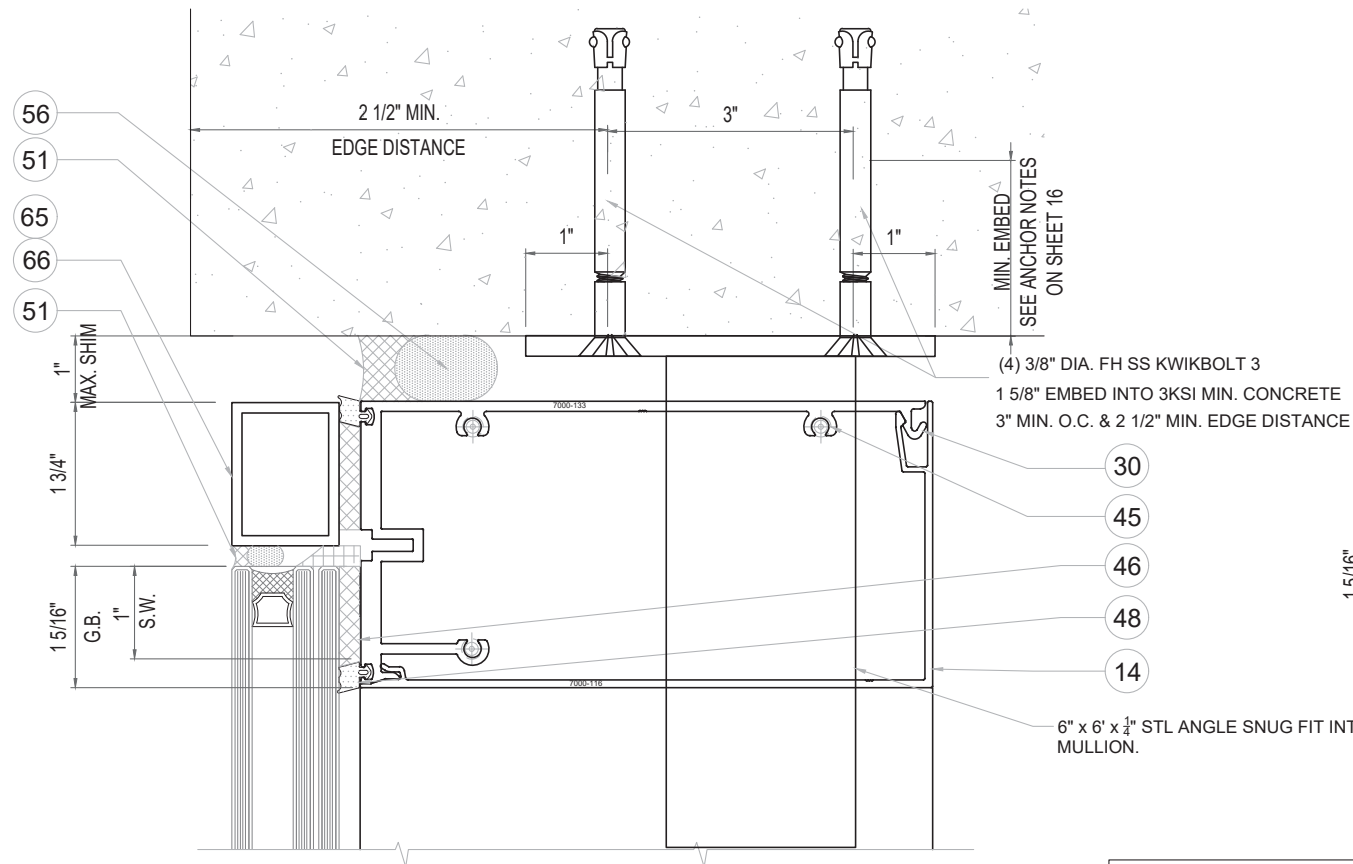
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-08
SHEET	17 OF 38



ANCHOR LAYOUT AT DOOR
JAMB - JAMB

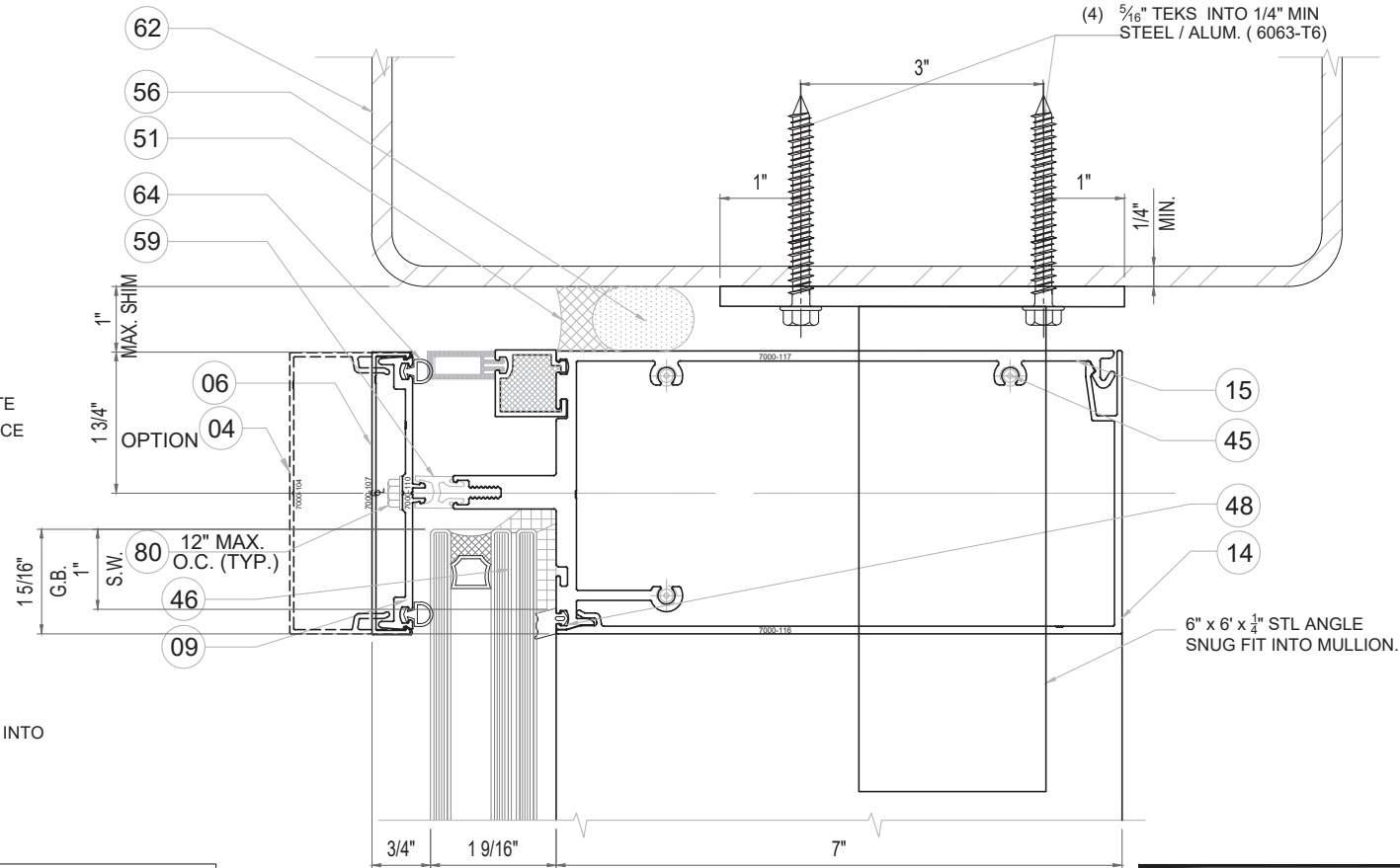


ANCHOR LAYOUT AT DOOR
JAMB MULLION



11 HEAD DETAIL OPTION
17A AT DOOR JAMB MULLION OR JAMB

NOTE:
BOTH BUTT GLAZED AND CAPTURED
HEAD OPTIONS CAN BE ANCHORED
INTO CONCRETE OR STEEL



11 HEAD DETAIL OPTION
17A AT DOOR JAMB MULLION OR JAMB

FLORIDA APPROVAL:
FL#28879.2

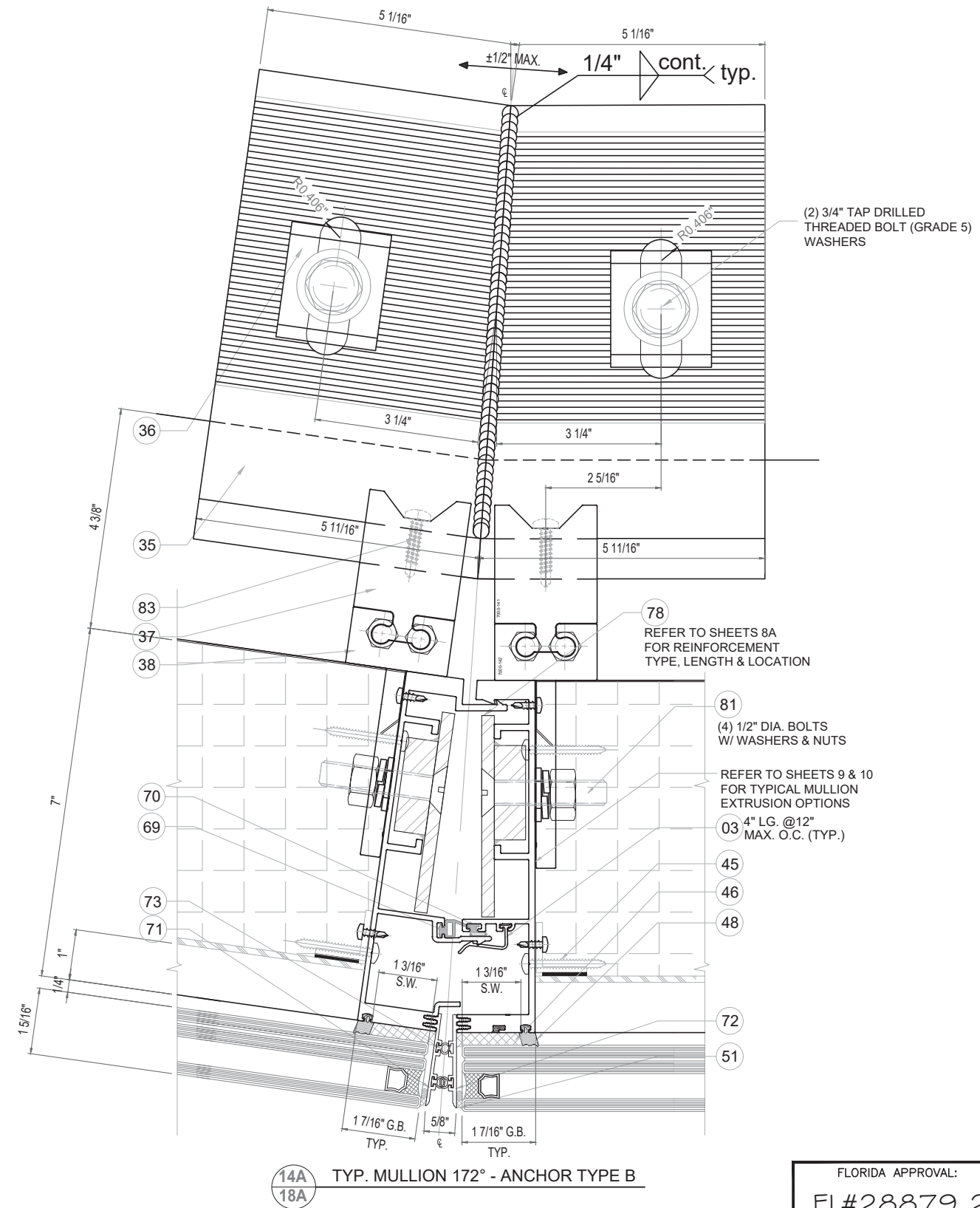
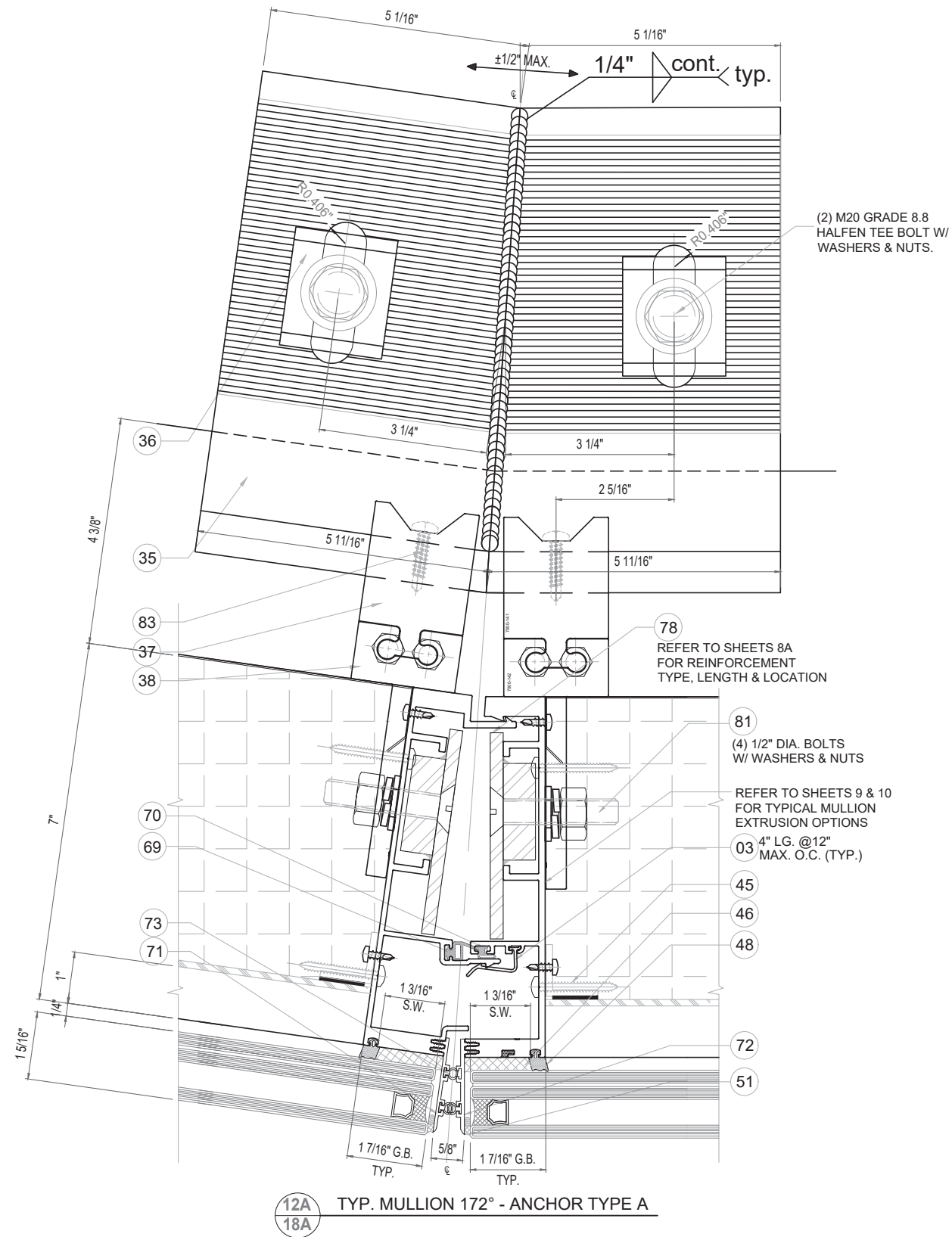
YOUNG, WANG & ASSOCIATES, P.C.
FLORIDA REGISTRATION
PE #55983
CA #55983
September 19th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

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SHEET	17 OF 38



FLORIDA APPROVAL:
FL#28879.2

YONG WANG
YONG WANG, P.E.
FLORIDA REGISTRATION
PE #55983
CA #55983
28877
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
September 19th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

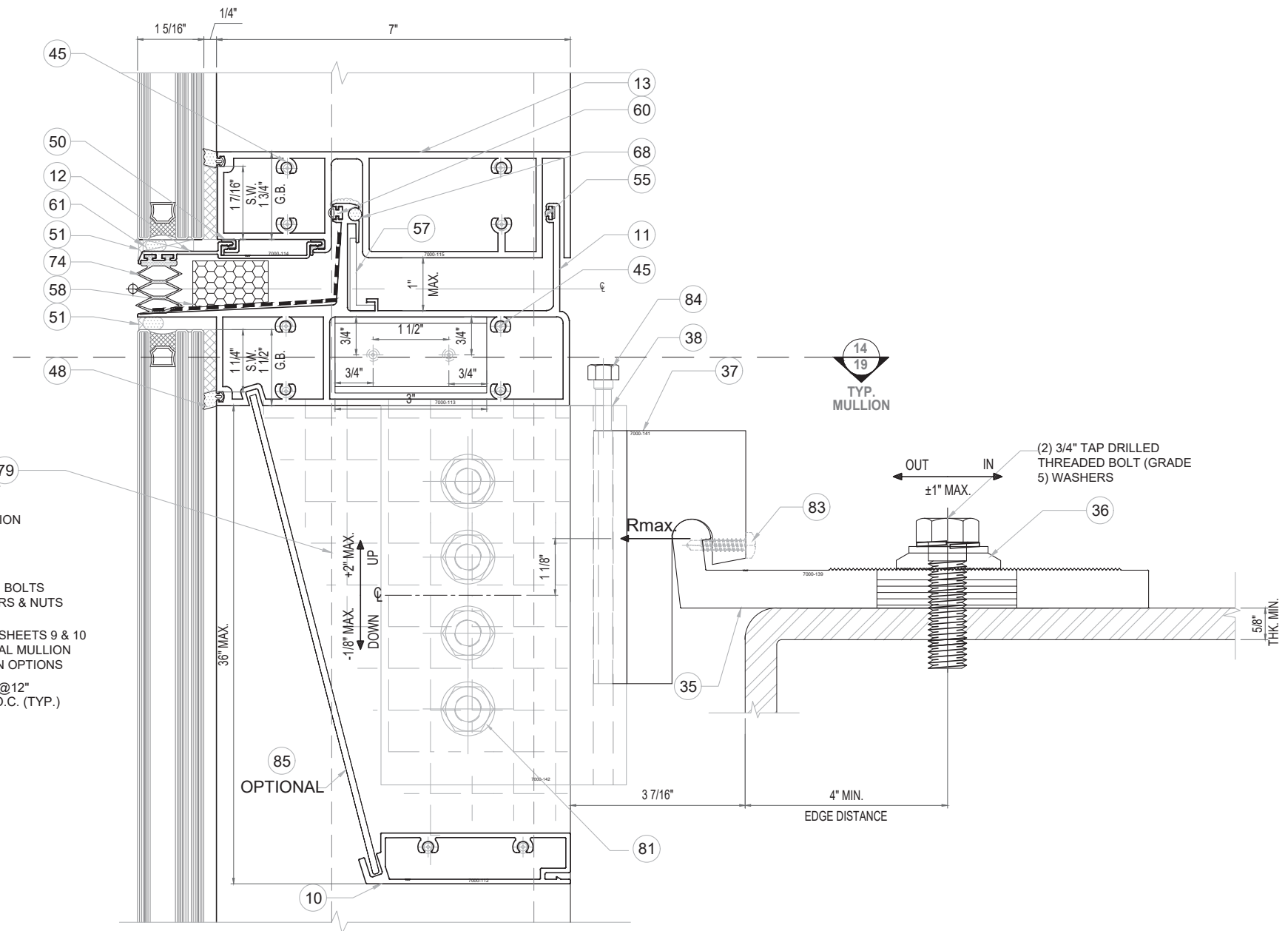
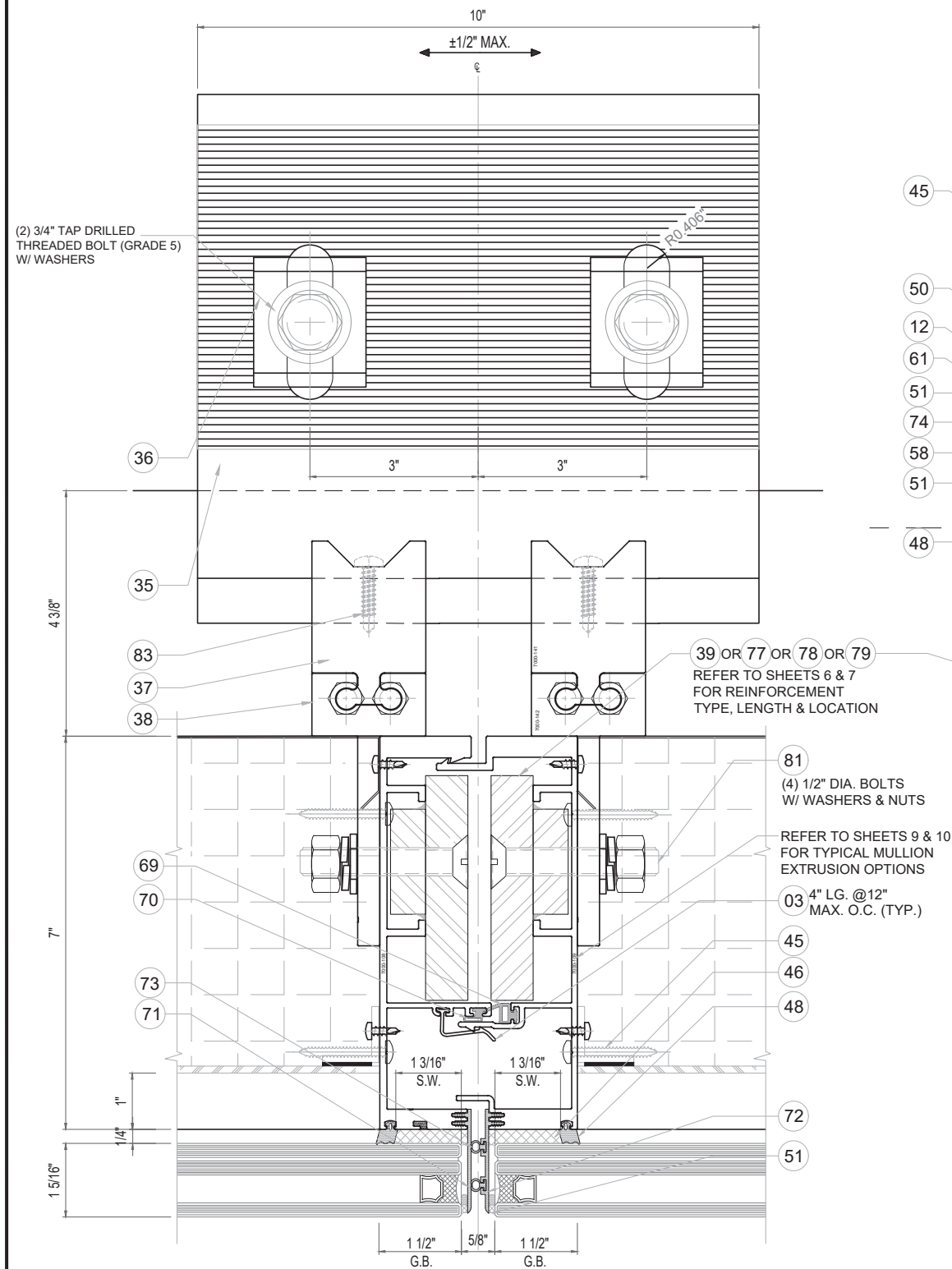
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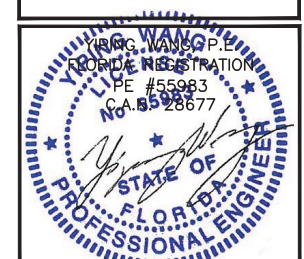
3550 NW 49th Street, MIAMI, FL 33142
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DRAWING NO.	AD19-08
SHEET	18A OF 38



14 TYP. MULLION - ANCHOR TYPE B
19

15 EXP. JOINT - ANCHOR TYPE B
19 SECTION



REVISIONS	
NO.	DATE DESCRIPTION
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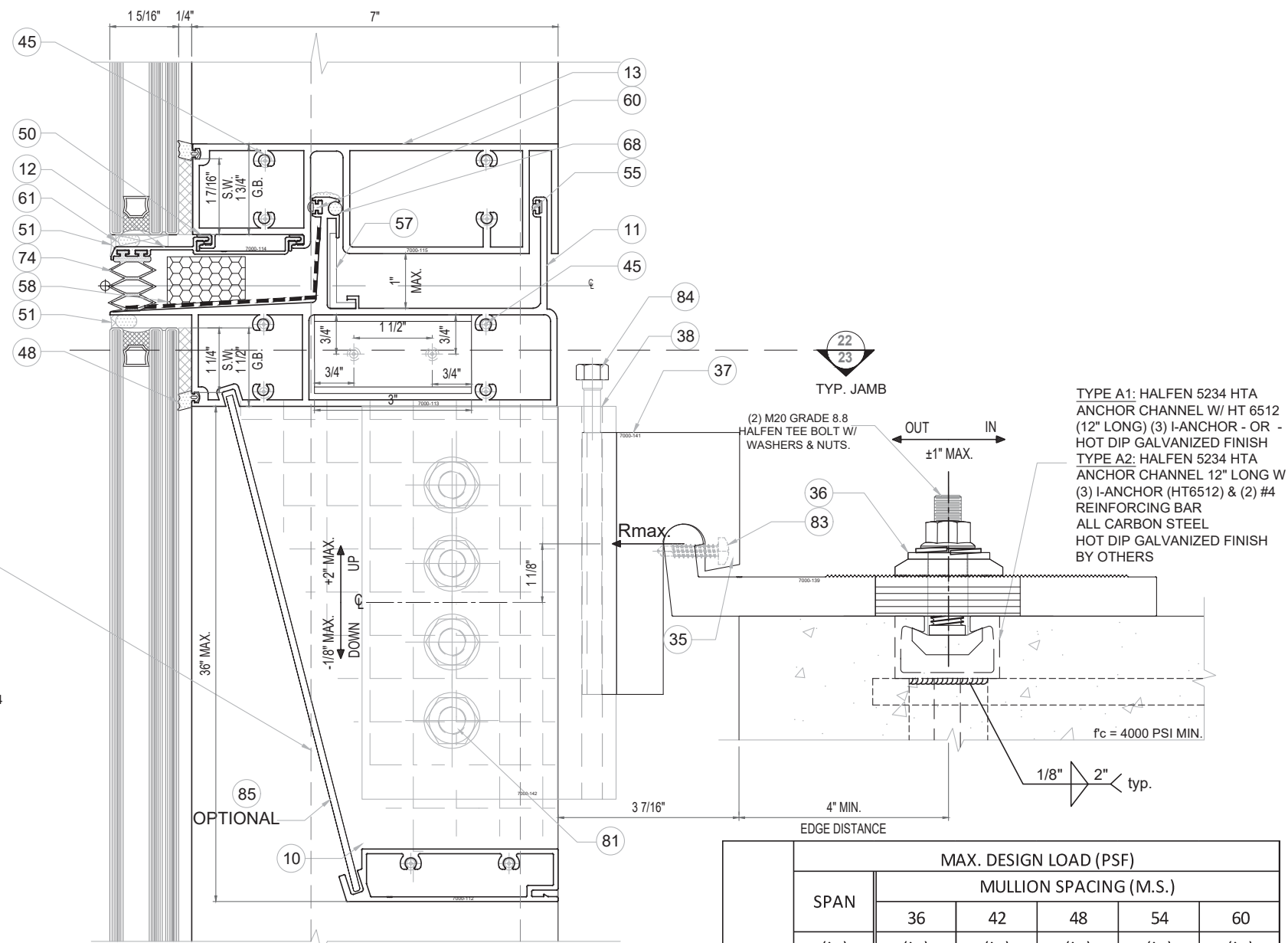
3550 NW 49th Street, MIAMI, FL 33142

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DRAWING NO.
AD19-08

SHEET 19 OF 38



JAMB SPAN*	MIN. GAP	MAX. GAP
≤ 120 "	0.38 "	0.75 "
132 "	0.42 "	0.75 "
144 "	0.46 "	0.75 "
156 "	0.5 "	0.75 "
168 "	0.54 "	0.75 "
180 "	0.58 "	0.75 "
192 "	0.62 "	0.75 "
204 "	0.65 "	0.75 "
208 "	0.67 "	0.75 "

23 JAMB EXP. JOINT - ANCHOR TYPE A1, A2

23 SECTION

	MAX. DESIGN LOAD (PSF)					
	SPAN	MULLION SPACING (M.S.)				
		36	42	48	54	60
	(in)	(in)	(in)	(in)	(in)	(in)
TYPE A1	120	175	150	131	116	105
	126	166	143	125	111	100
	132	159	136	119	106	95
	138	152	130	114	101	91
	144	146	125	109	97	87
TYPE A2	120	187	187	187	187	187
	126	187	187	187	187	179
	132	187	187	187	187	171
	138	187	187	187	182	164
	144	187	187	187	174	157

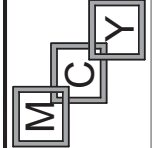
FL#28879.2

$f'_c = 4000$ PSI MIN.

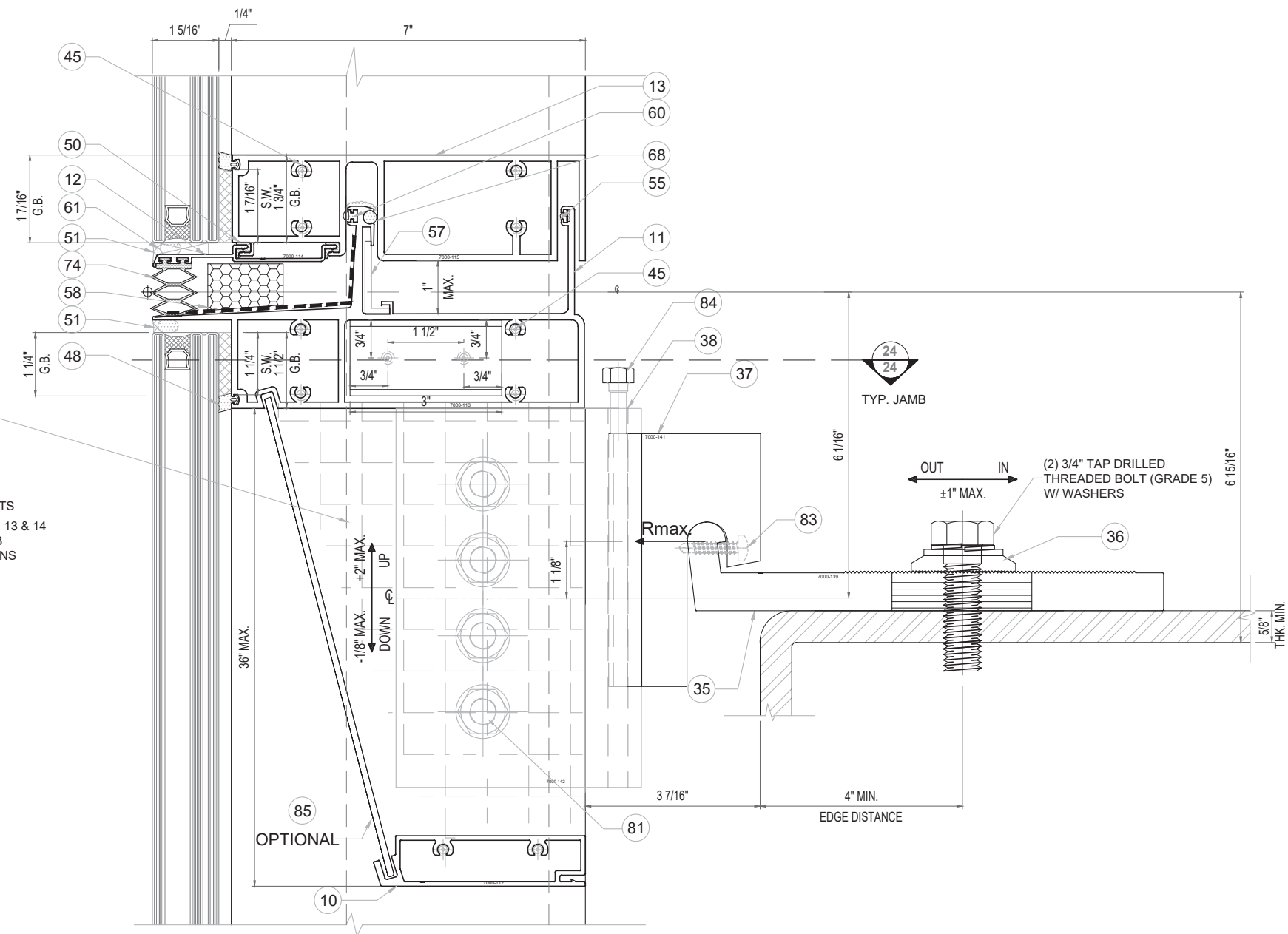
Phone (305) 342-0890 Fax (786) 513-3965

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NO.	DATE
R2	09.19.2023



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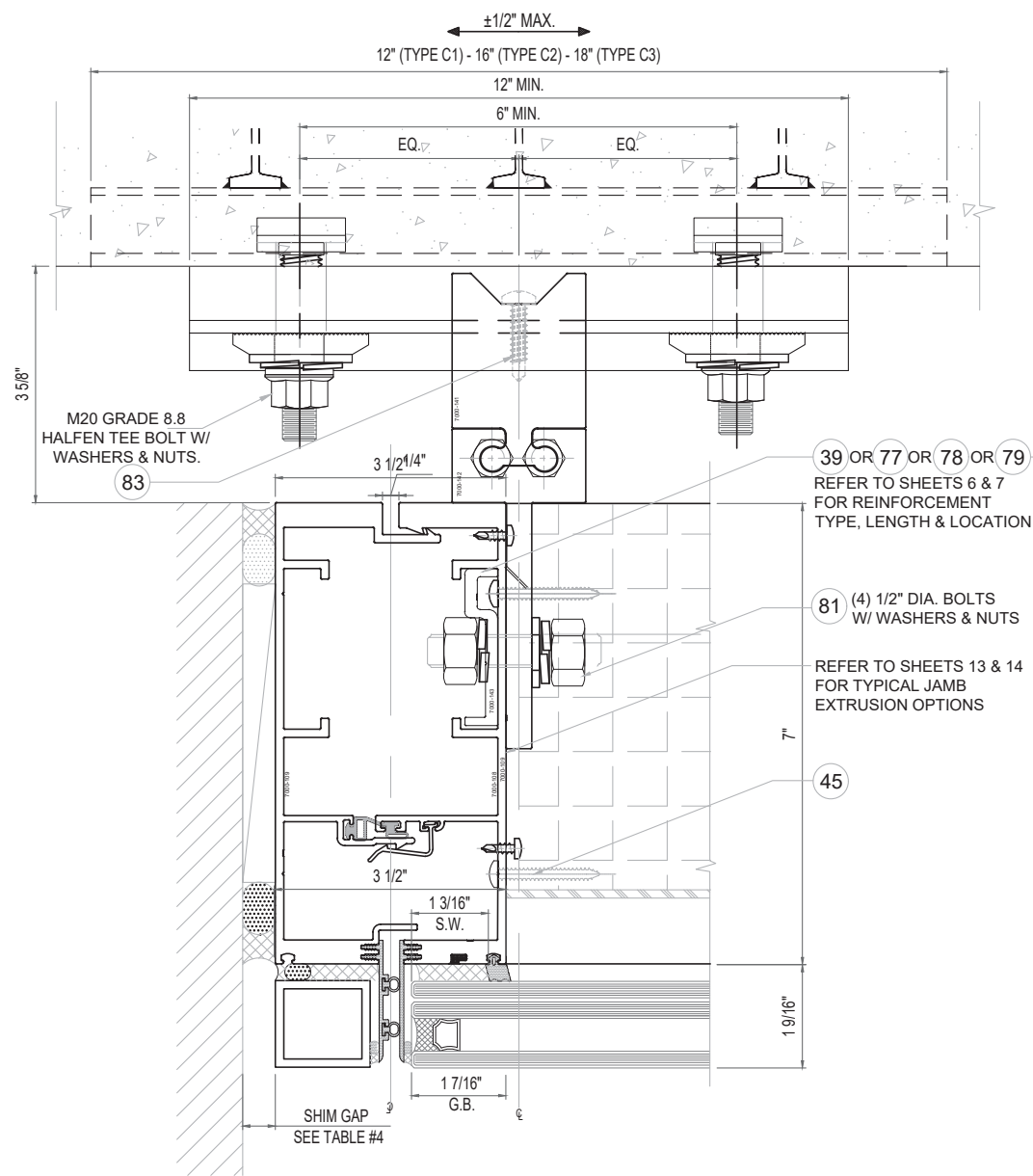


*JAMB SPAN: - ANCHOR C TO C

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

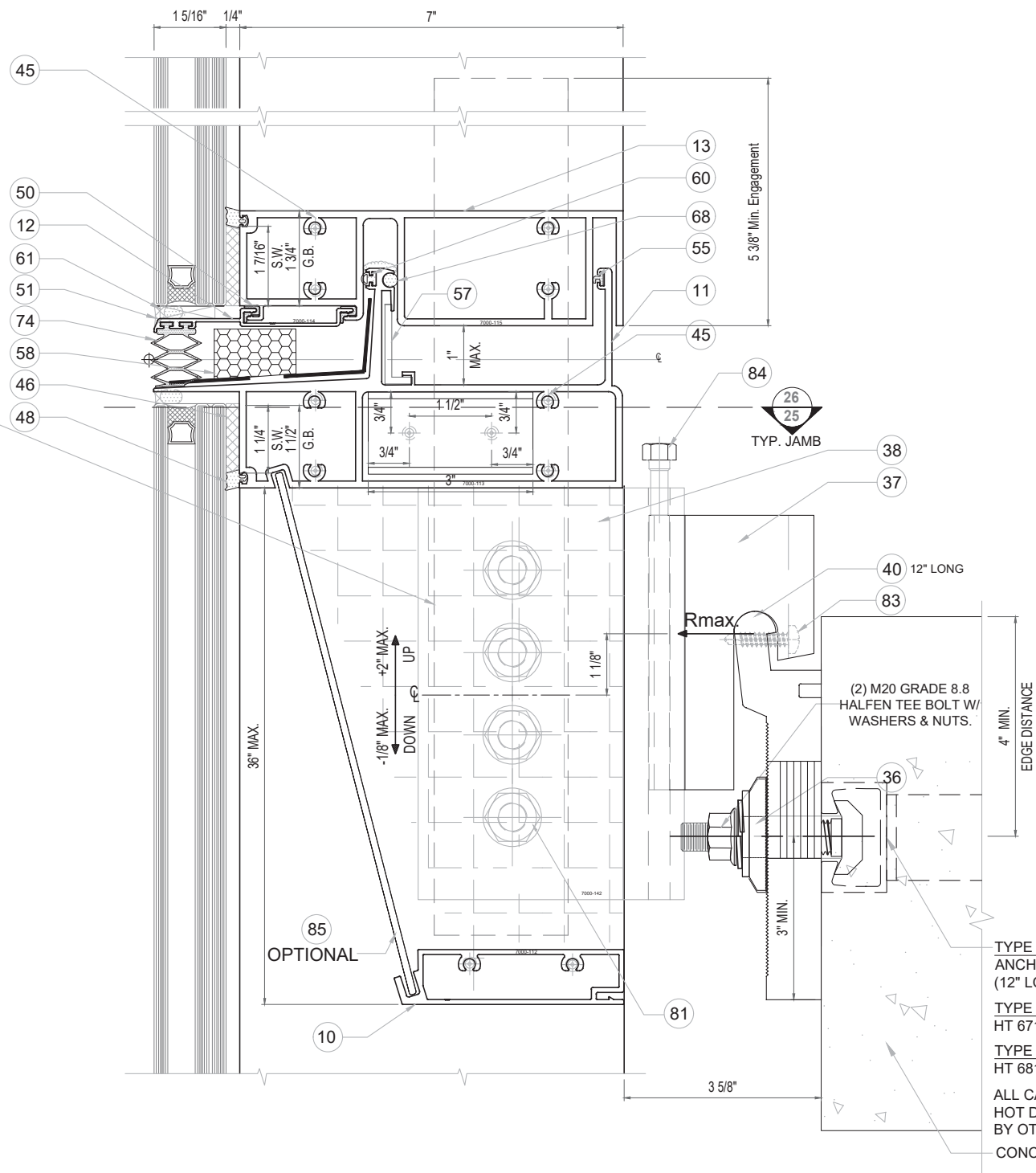
DRAWING NO.	
AD19-08	

SHEET	24 OF 38
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26
25 TYP. JAMB - ANCHOR TYPE C1, C2, C3

	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M.S.)				
		36	42	48	54	60
TYPE C1	(in)	(in)	(in)	(in)	(in)	(in)
	120	187	187	165	147	132
	126	187	180	157	140	126
	132	187	171	150	133	120
	138	187	164	143	128	115
TYPE C2	144	187	157	138	122	110
	120	187	187	187	169	152
	126	187	187	181	161	145
	132	187	187	173	154	138
	138	187	187	165	147	132
TYPE C3	144	187	181	158	141	127
	120	187	187	187	187	184
	126	187	187	187	187	175
	132	187	187	187	186	167
	138	187	187	187	178	160
	144	187	187	187	170	153



27
25 JAMB EXP. JOINT - ANCHOR TYPE C1, C2, C3 SECTION

TYPE C1: HALFEN 5234 HM ANCHOR CHANNEL W/ HT 6112 (12" LONG) (2) I-ANCHOR - OR -
TYPE C2: HALFEN 5542 HM WITH HT 6712 (16" LONG) (2) I-ANCHOR
TYPE C3: HALFEN 5542 HM WITH HT 6818 (18" LONG) (3) I-ANCHOR
ALL CARBON STEEL
HOT DIP GALVANIZED FINISH
BY OTHERS
CONCRETE BY OTHERS

FLORIDA APPROVAL:
FL#28879.2

REVISIONS

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

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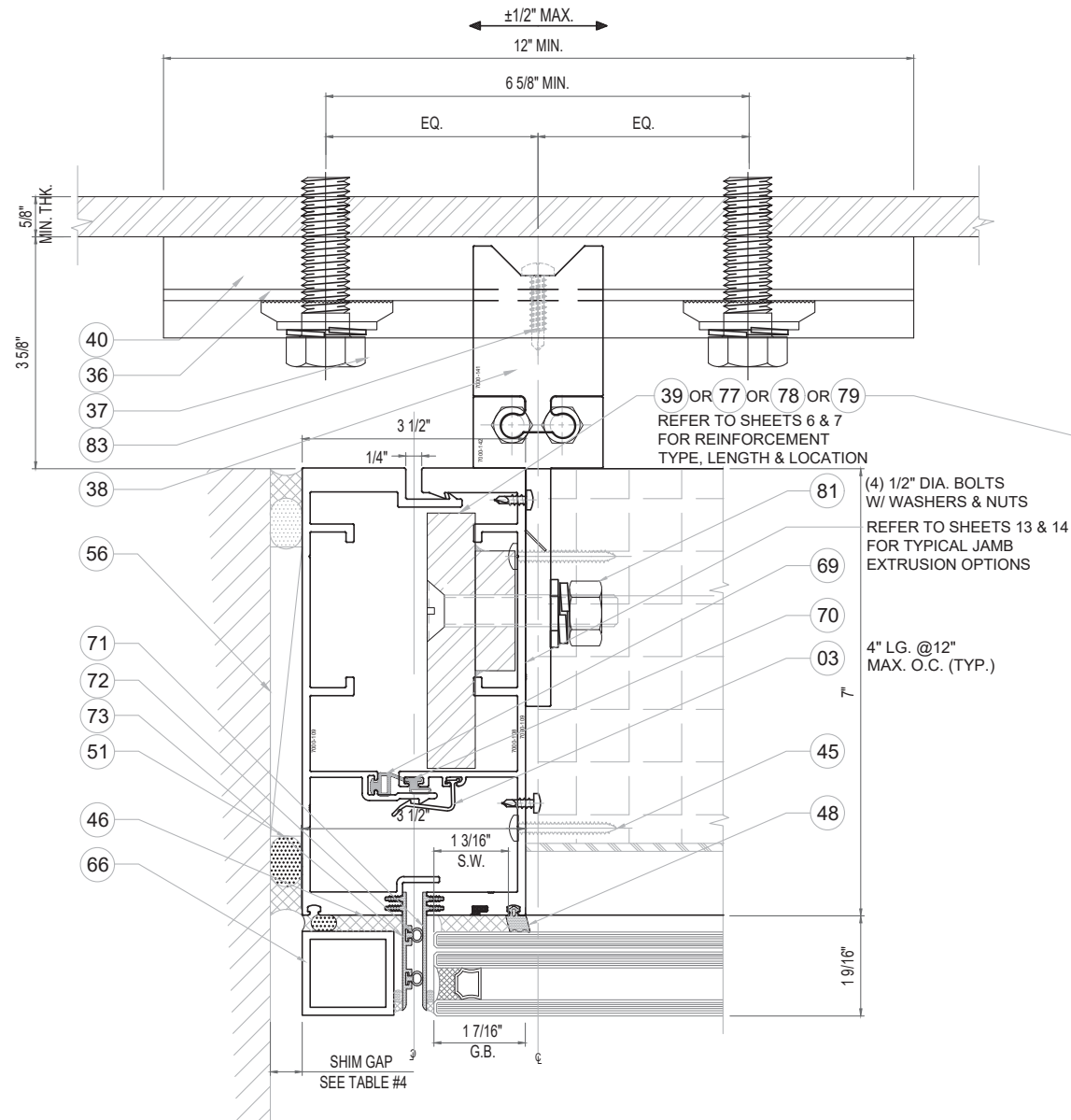
SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

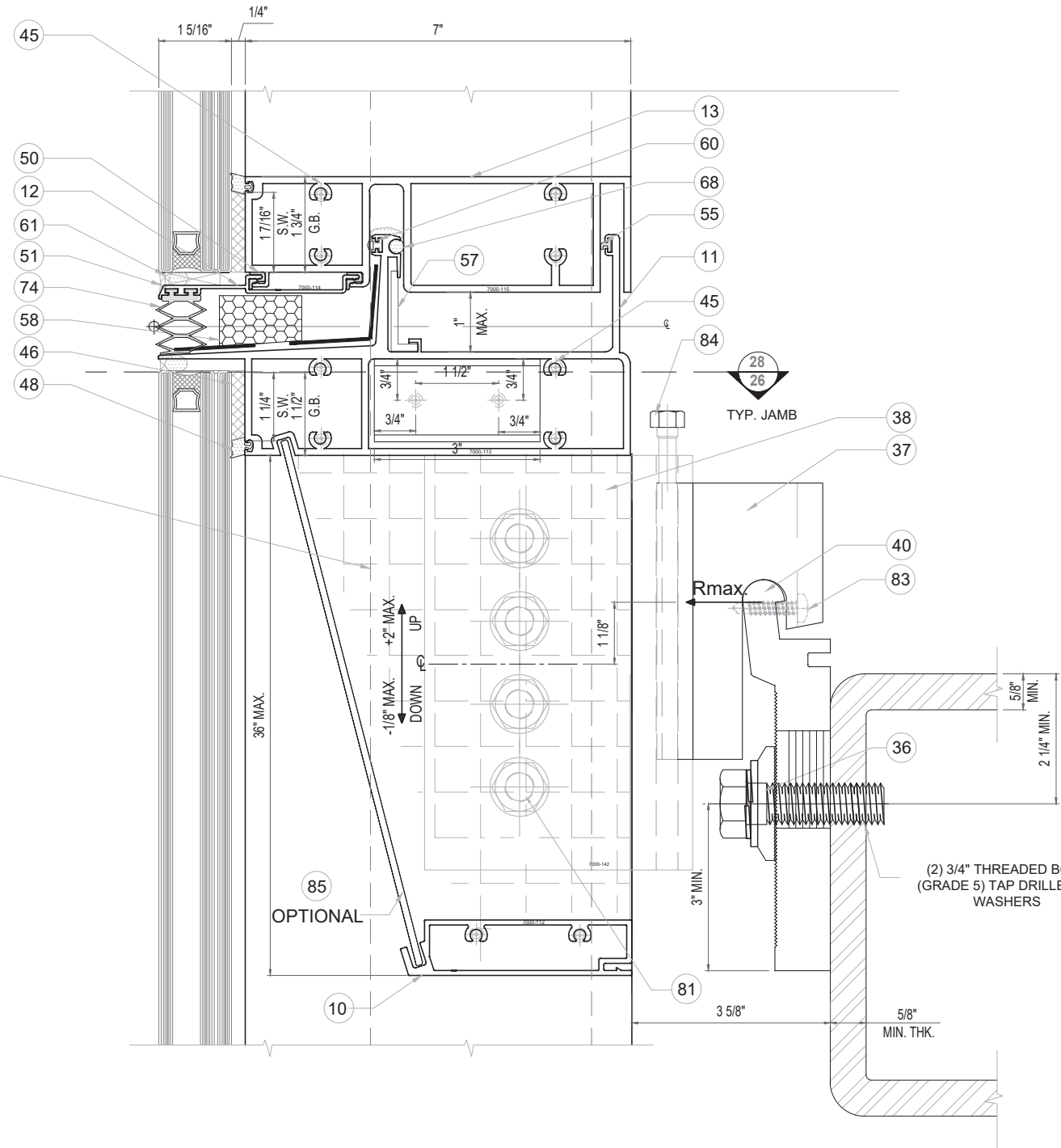
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

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28
26 TYP. JAMB - ANCHOR TYPE D1



29
26 JAMB EXP. JOINT - ANCHOR TYPE D1
SECTION

FLORIDA APPROVAL:
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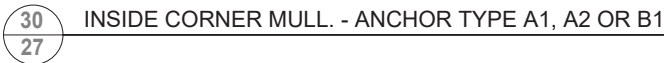
YOUNG WANG
Professional Engineer
No. 55983
FLORIDA REGISTRATION
No. 55983
September 19th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

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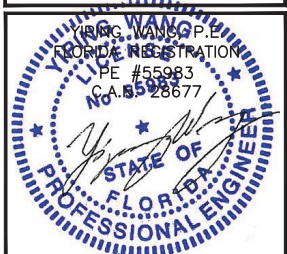
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3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
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TYPE A1, A2	TYPE B1
INTO	INTO
CONC.	STEEL
	

FLORIDA APPROVAL:
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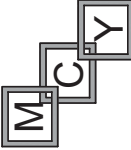
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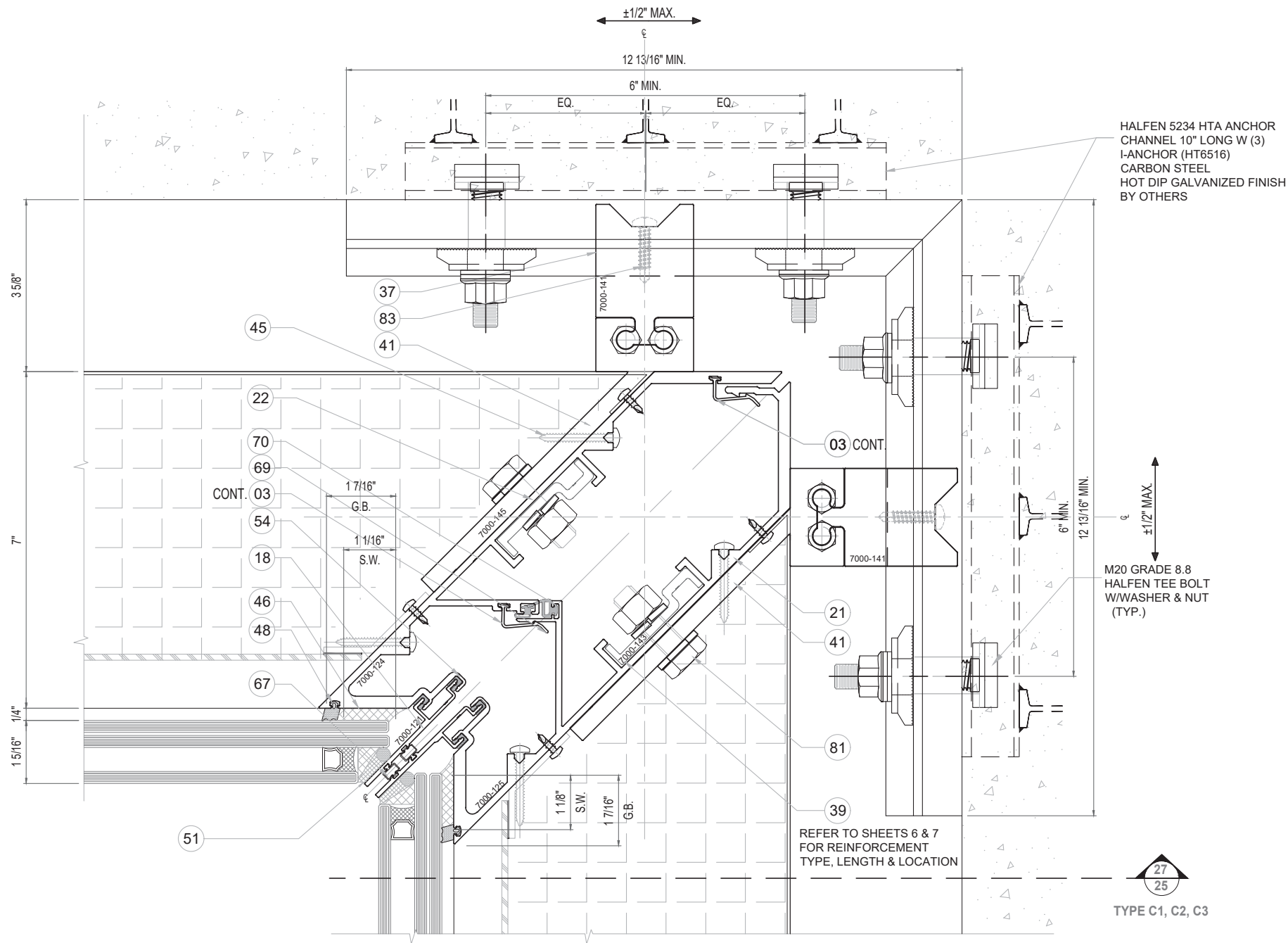
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NO.	DATE DESCRIPTION
R2	09.19.2023 FBC 2023

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

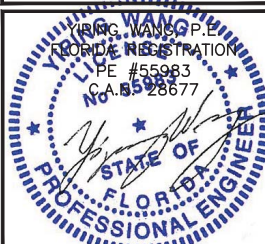
DRAWING NO.
AD19-08

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31
28 INSIDE CORNER MULL. - ANCHOR TYPE C1, C2, C3



FLORIDA APPROVAL:
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DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
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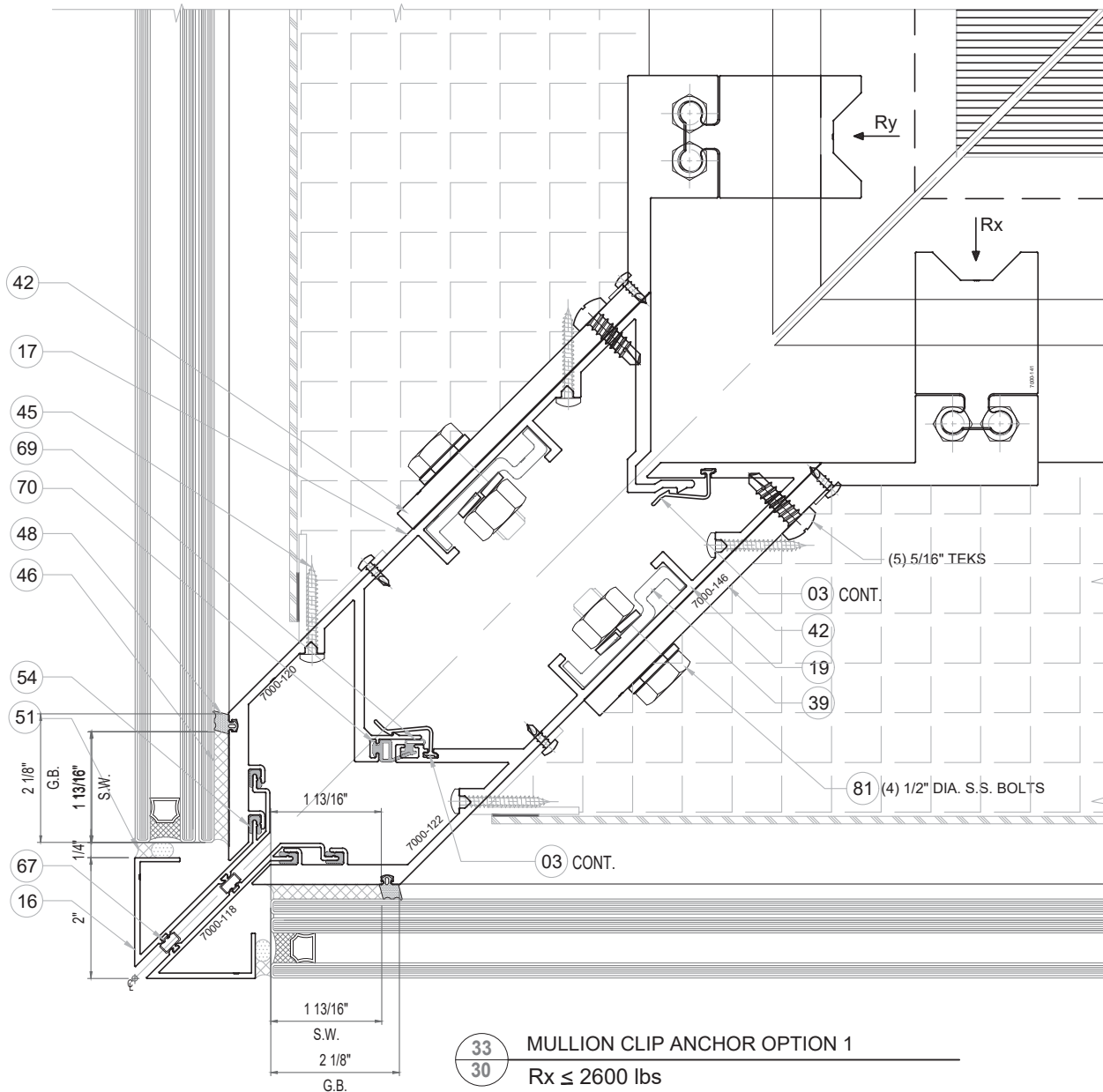
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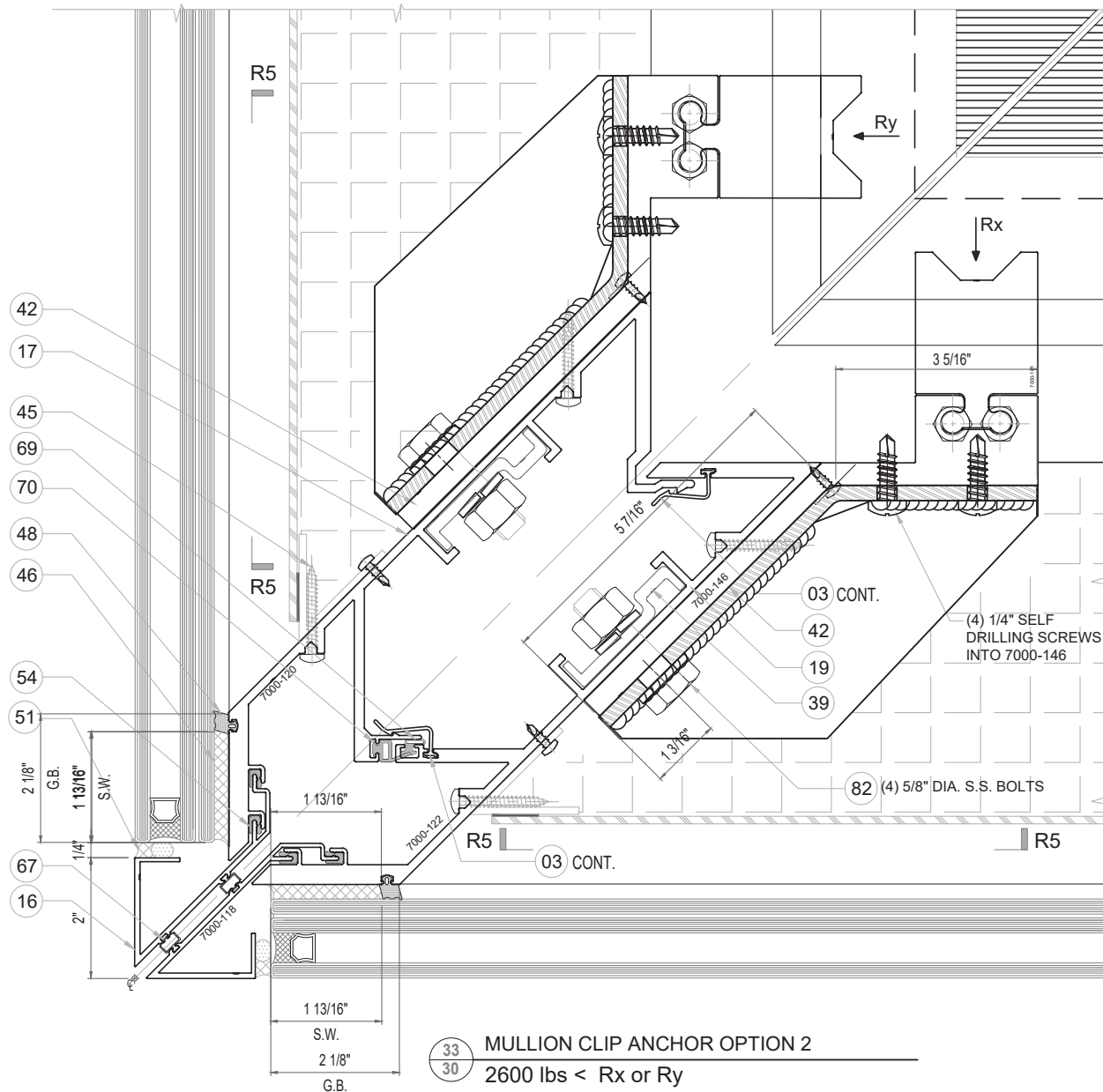
MCY@mcyeengineering.com

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R2	09.19.2023	FBC 2023

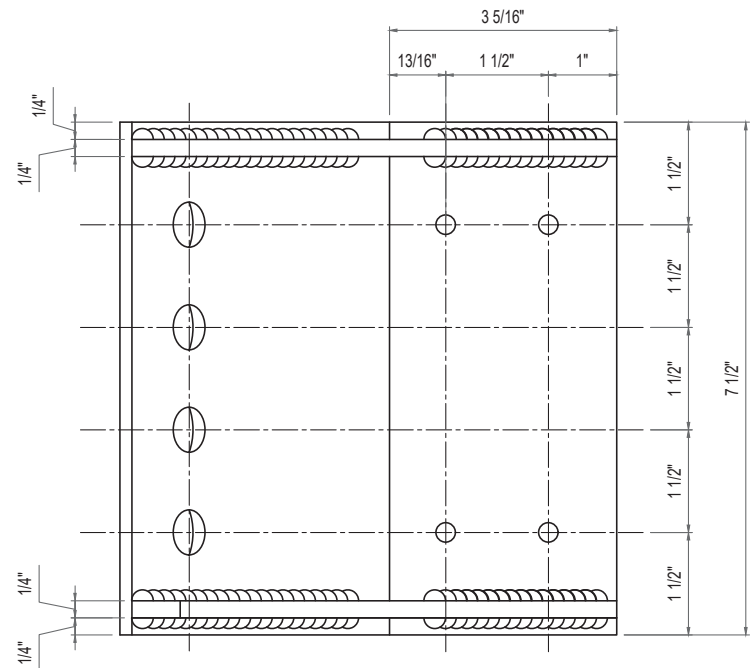


33 MULLION CLIP ANCHOR OPTION 1
30 $R_x \leq 2600$ lbs



33 MULLION CLIP ANCHOR OPTION 2
30 $2600 \text{ lbs} < R_x \text{ or } R_y$

	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M. S.)				
	(in)	(in)	(in)	(in)	(in)	(in)
OPTION 1	120	151	129	113	100	90
	126	144	123	108	96	86
	132	137	117	103	91	82
	138	131	112	98	87	79
	144	126	108	94	84	75
OPTION 2	120	187	187	187	187	178
	126	187	187	187	187	169
	132	187	187	187	180	162
	138	187	187	187	172	155
	144	187	187	185	165	148



R5 - STEEL ANCHOR CLIP DETAIL
 FRONT VIEW

FLORIDA APPROVAL:
FL#28879.2

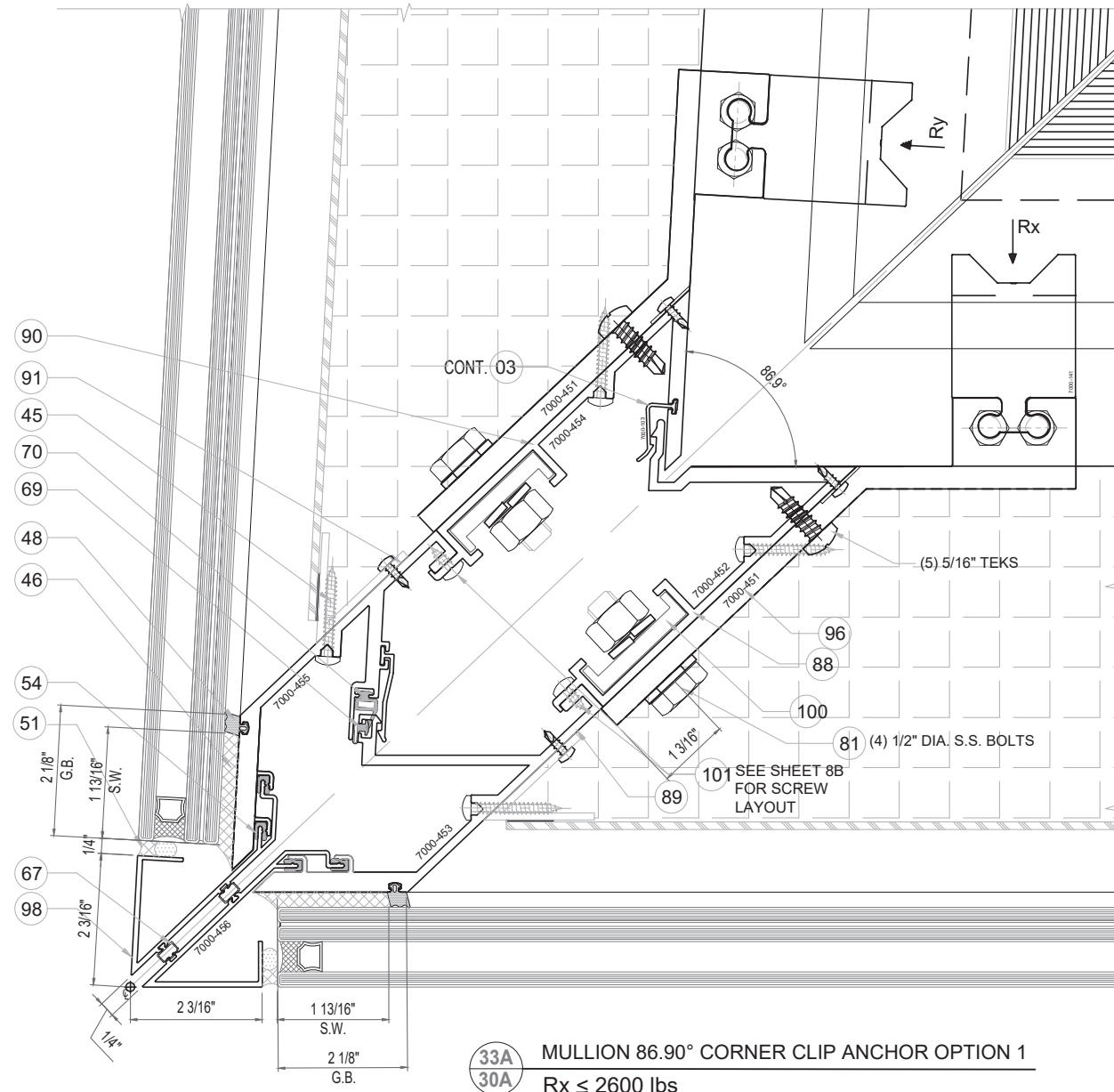
YONG WANG, P.E.
 FLORIDA REGISTRATION
 NO. 55983
 CA 95586
 September 19th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

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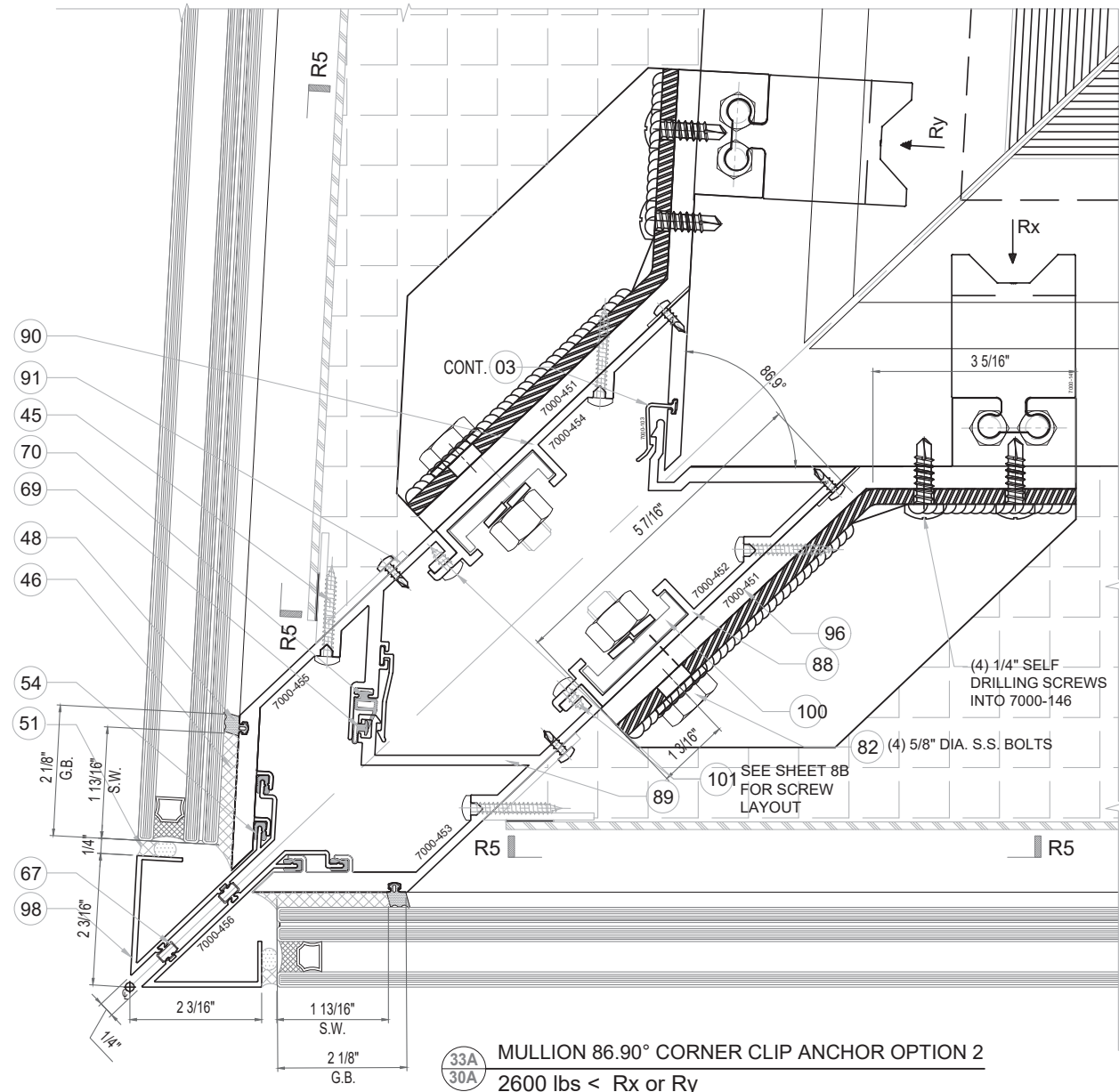
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
 3550 NW 49th Street, MIAMI, FL 33142
 Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-08
SHEET	30 OF 38



33A
30A MULLION 86.90° CORNER CLIP ANCHOR OPTION 1
Rx ≤ 2600 lbs

NOTE:
REFER TO SHEETS 30 FOR SECTION
R5 AND MAX. DESIGN LOAD FOR
OPTION 1 AND OPTION 2.



33A
30A MULLION 86.90° CORNER CLIP ANCHOR OPTION 2
2600 lbs < Rx or Ry

FLORIDA APPROVAL:
FL#28879.2

September 19th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

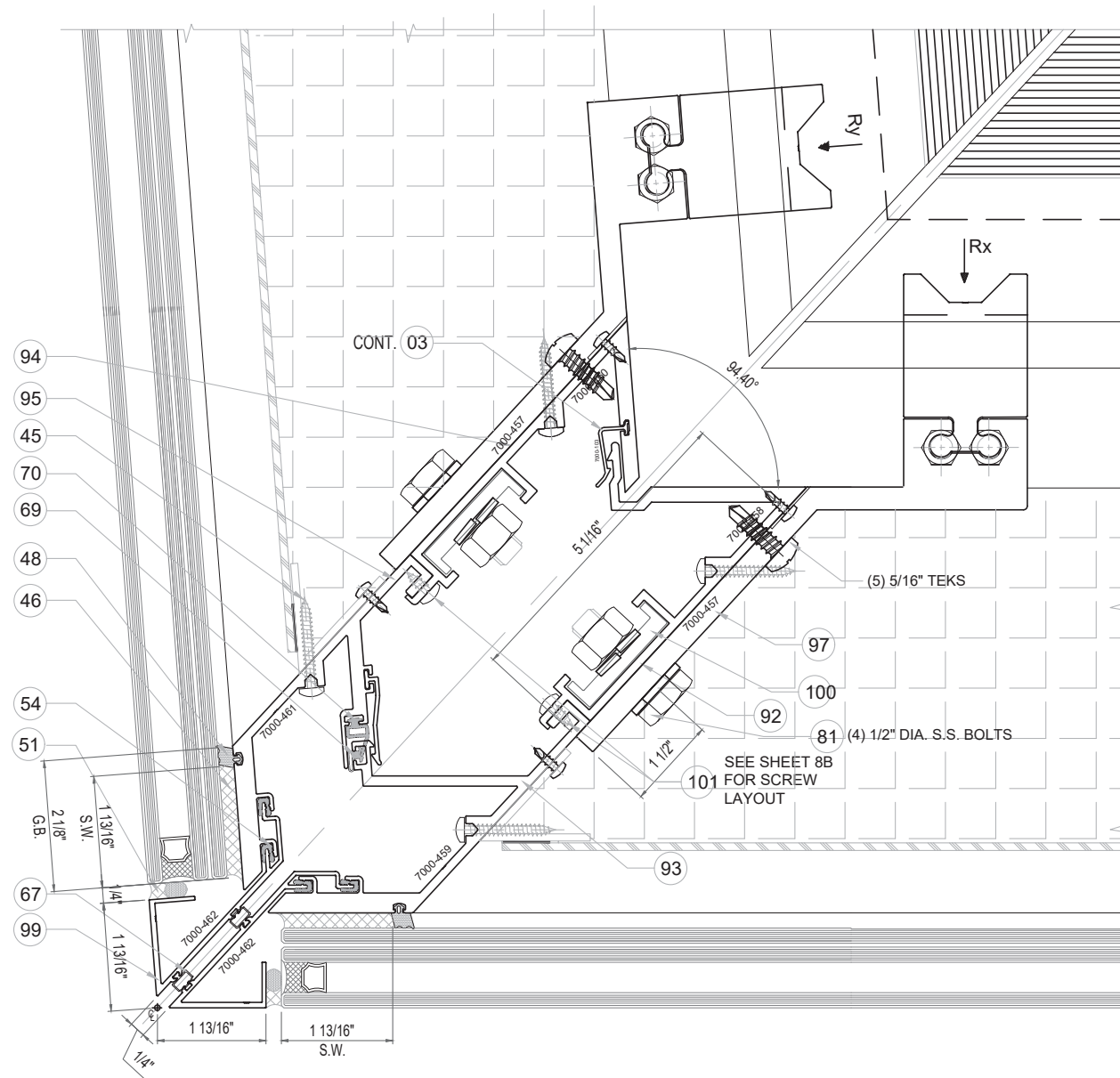
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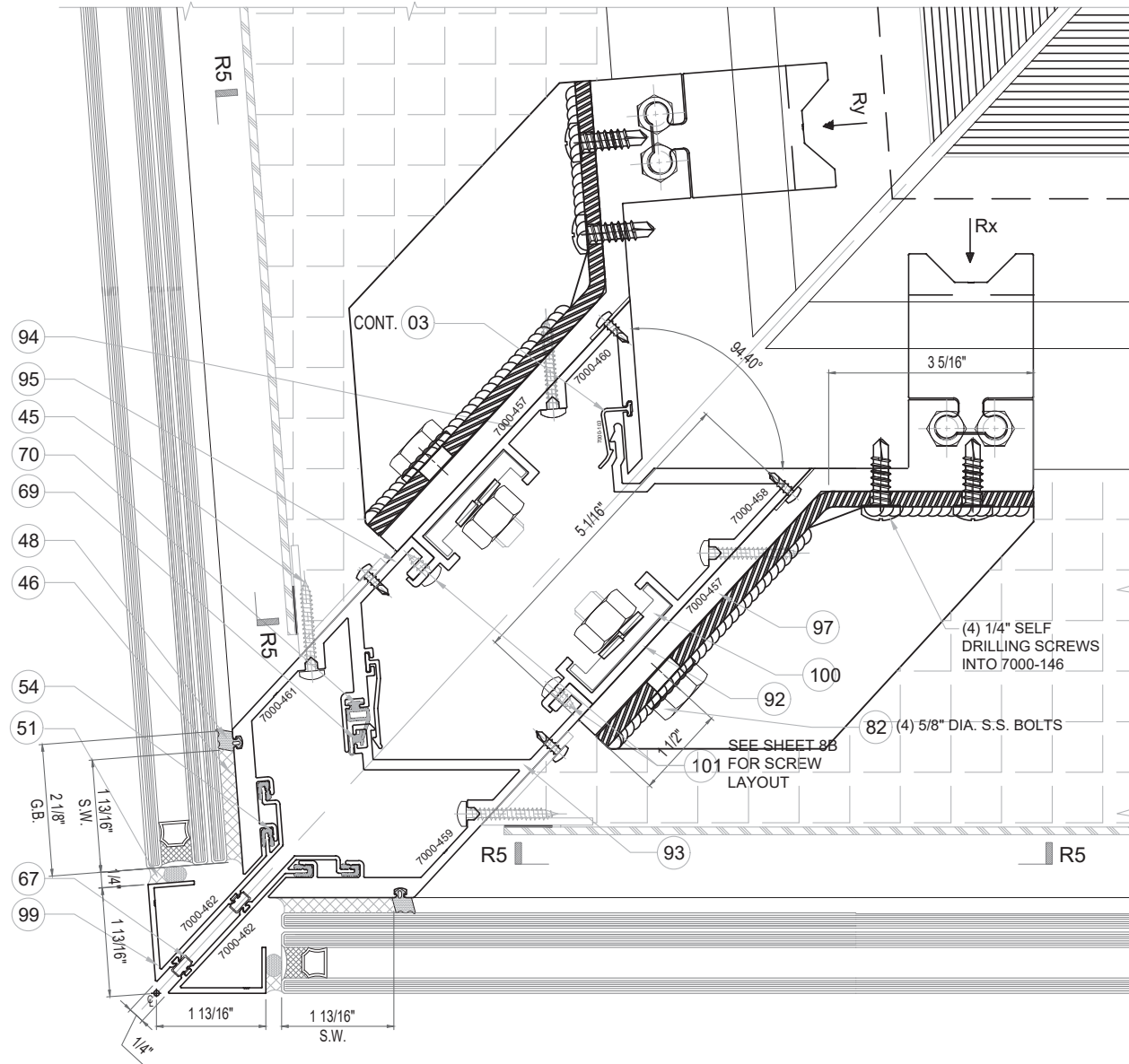
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3550 NW 49th Street, MIAMI, FL 33142
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DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
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33B MULLION 94.40° CORNER CLIP ANCHOR OPTION 1
30B Rx ≤ 2600 lbs



33B MULLION 94.40° CORNER CLIP ANCHOR OPTION 2
30B 2600 lbs < Rx or Ry

NOTE:
 REFER TO SHEETS 30 FOR SECTION
 R5 AND MAX. DESIGN LOAD FOR
 OPTION 1 AND OPTION 2.

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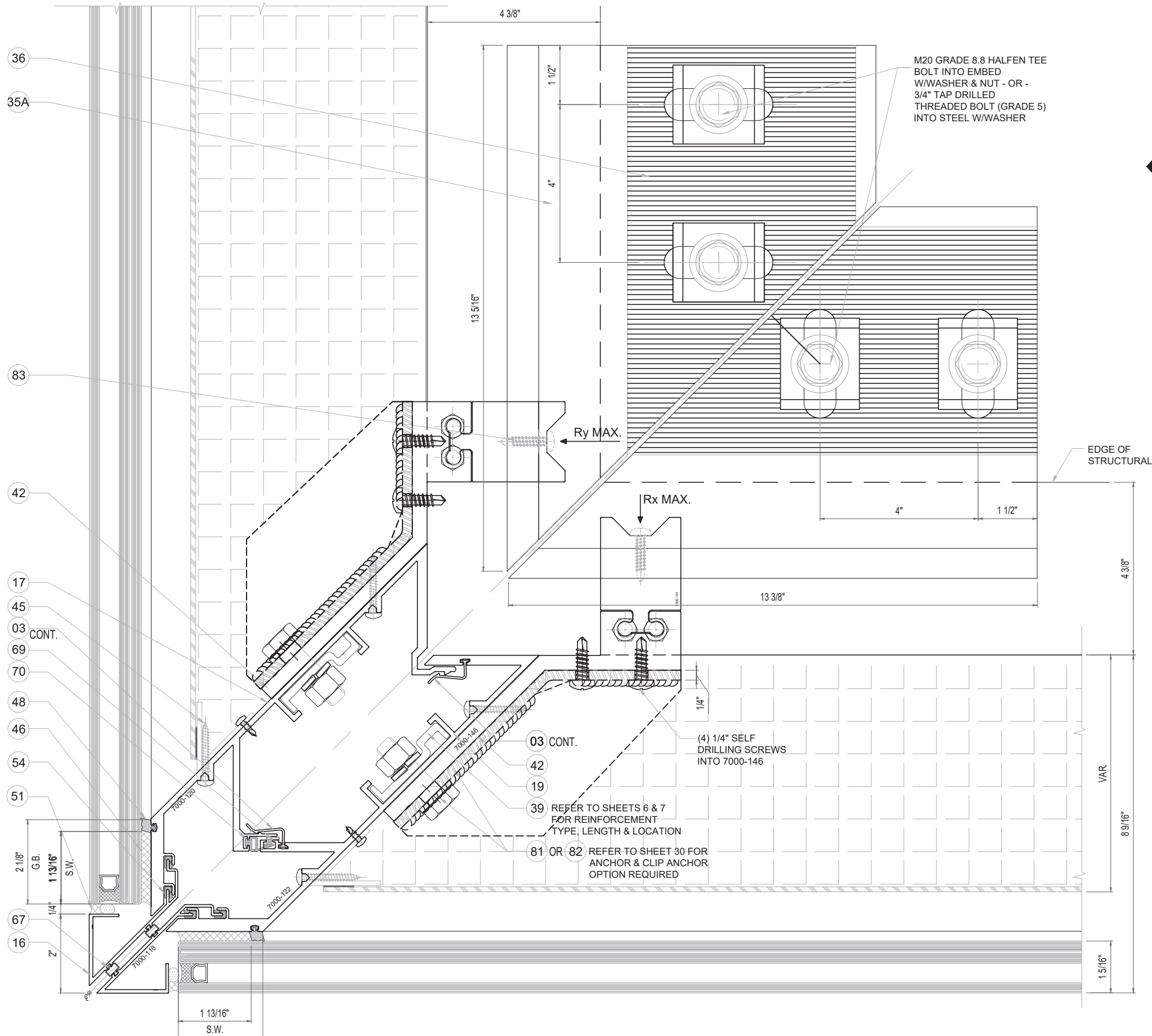
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TECNOGLASS, LLC.
 3550 NW 49th Street, MIAMI, FL 33142
 Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-08	
SHEET	30B0F 38



35 32 TYPE E
36 33 TYPE F

34 31
OUTSIDE CORNER MULL.
ANCHOR TYPE E OR F

FLORIDA APPROVAL:
FL#28879.2



September 19th, 2023

REVISIONS	
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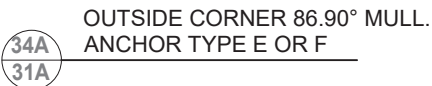
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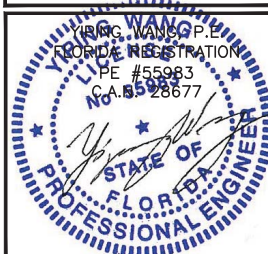
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

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AD19-08

SHEET 31 OF 38



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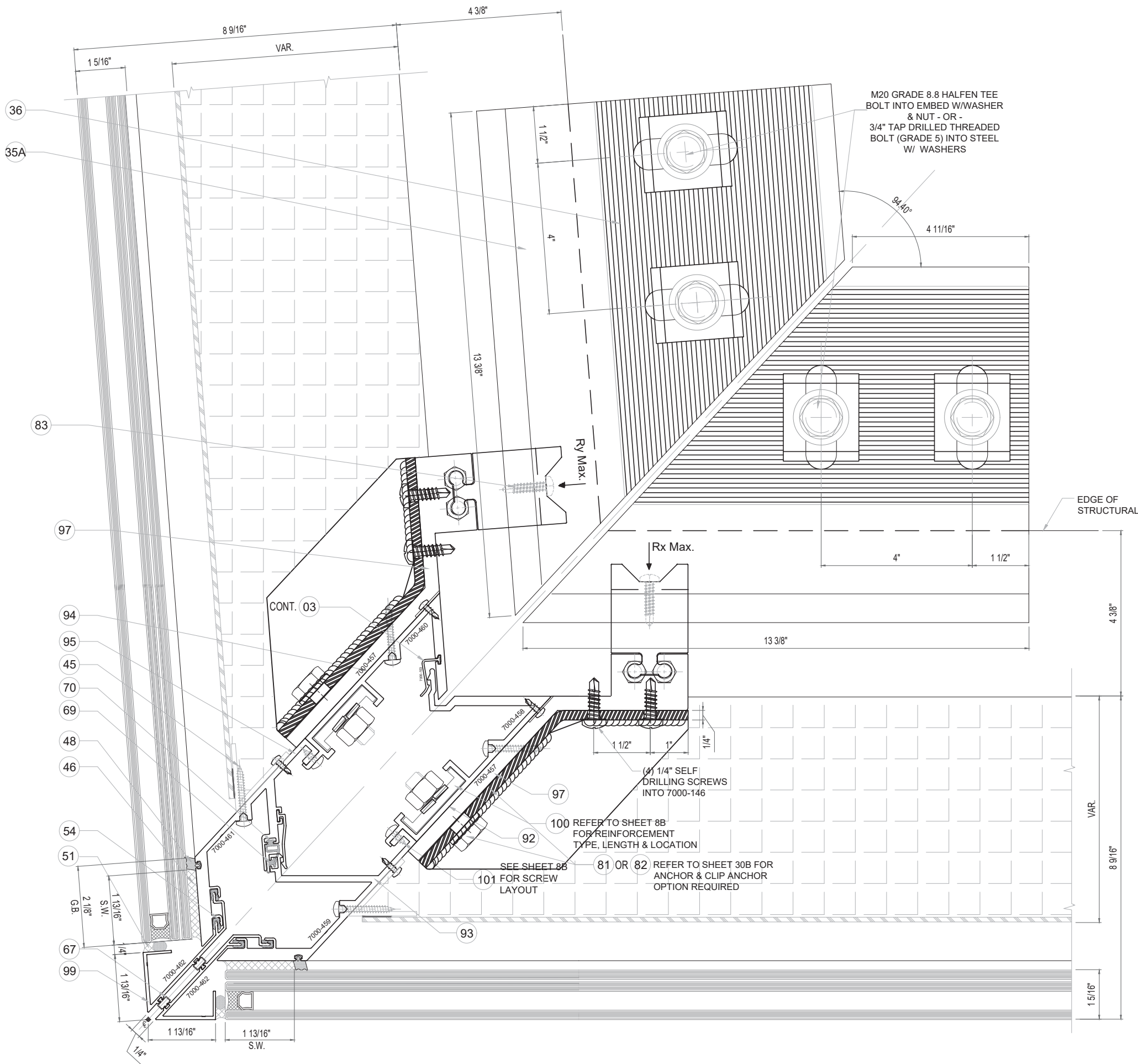
TECNOGLASS, LLC.

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SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

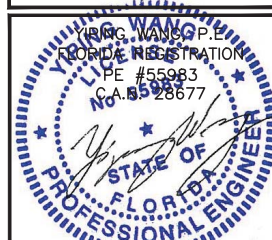
DRAWING NO.
AD19-08

SHEET 31A OF 38



34B 31B OUTSIDE CORNER 94.40° MULL.
ANCHOR TYPE E OR F

FLORIDA APPROVAL:
FL#28879.2



September 19th, 2023

REVISIONS	
NO.	DATE
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36	FBC 2023

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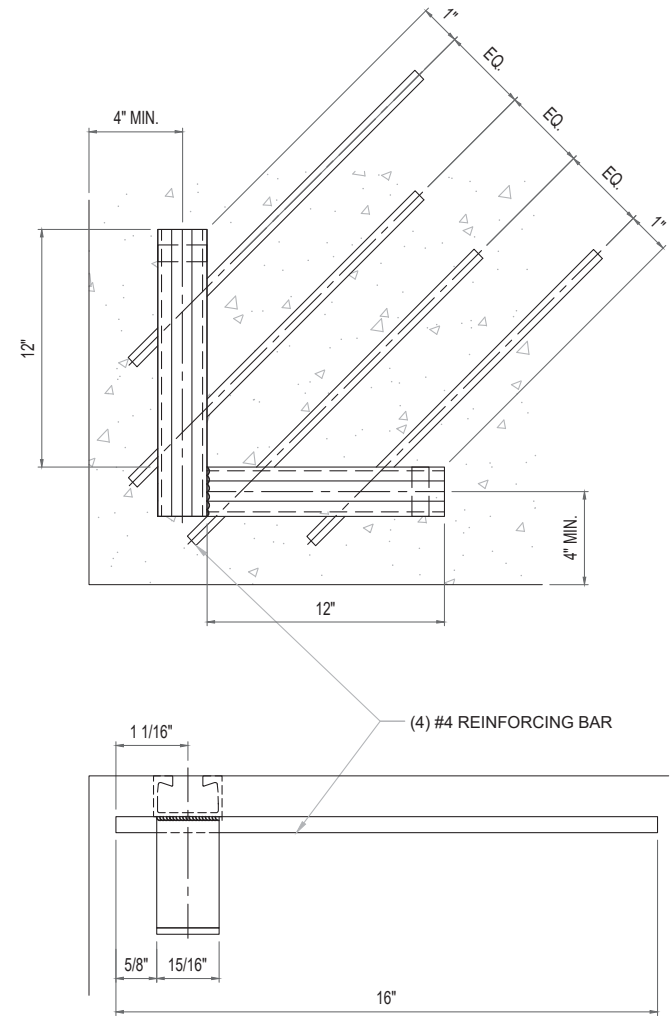
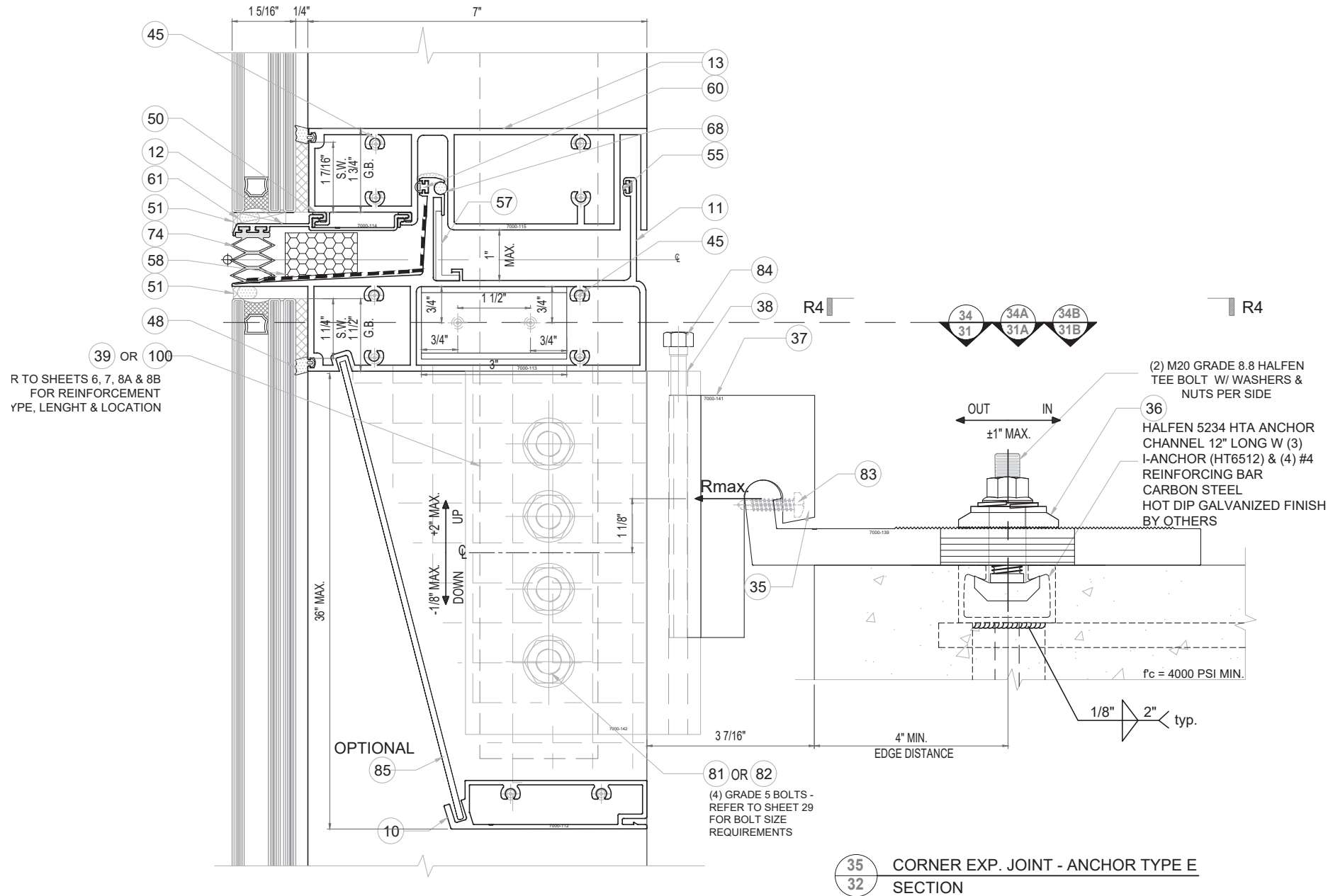
TECNOGLASS, LLC.

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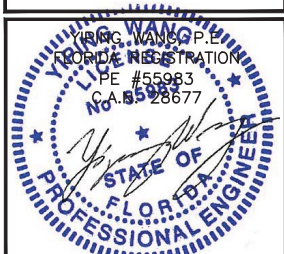
Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.	AD19-08
SHEET	31B OF 38



FLORIDA APPROVAL:
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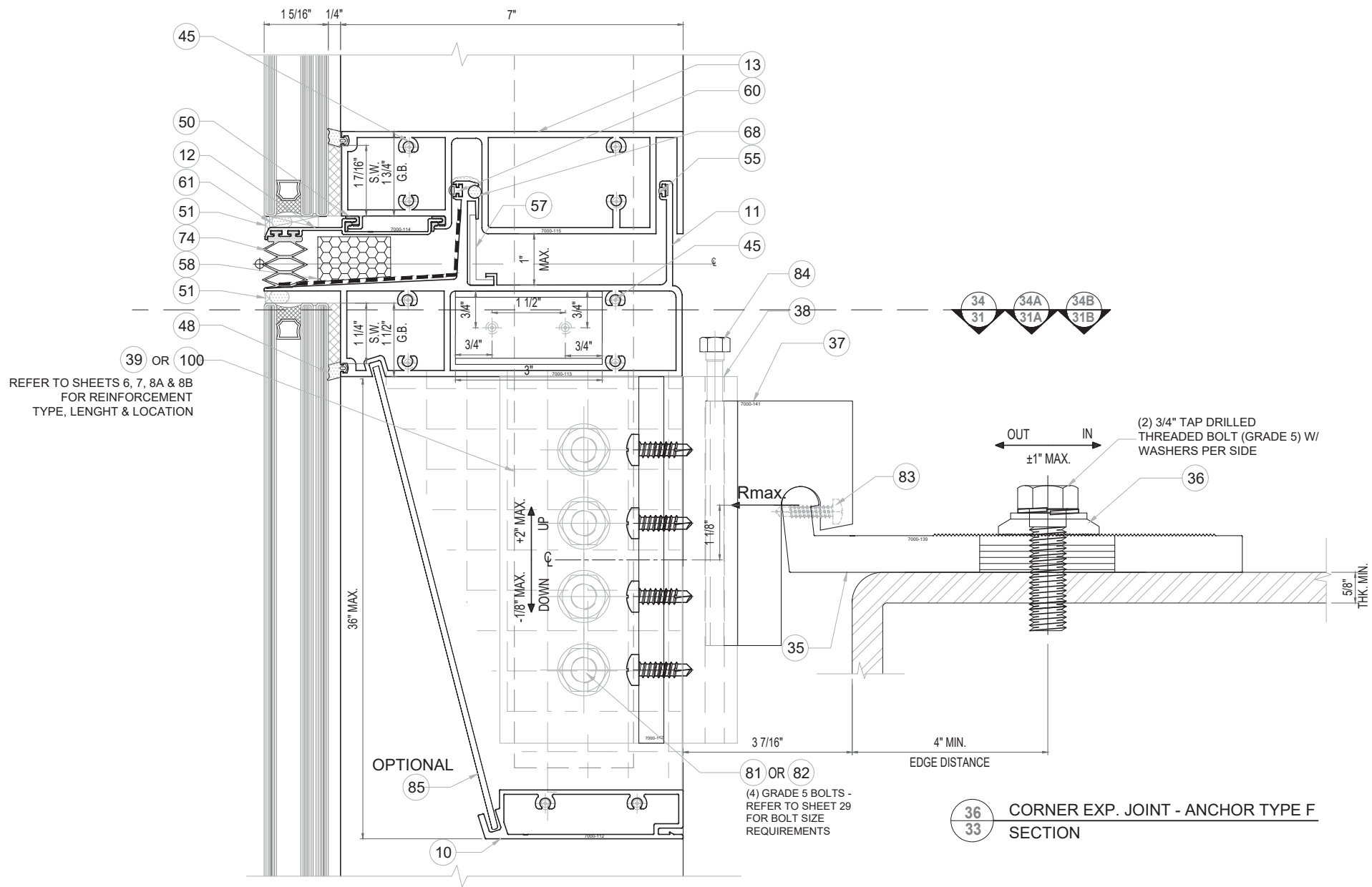
DATE	09.19.2023
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DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08

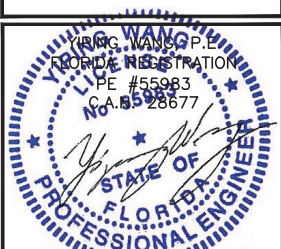
SHEET 32 OF 38

REVISIONS
NO. DATE DESCRIPTION
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DATE	09.19.2023
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DRAWING NO.
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SHEET 33 OF 38

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NO.	DATE DESCRIPTION
R2	09.19.2023 FBC 2023

TYPE G1: HALFEN CHANNEL 5542 WITH HT
 6712 X 12B (3) I-ANCHOR - OR -
 TYPE G2: HALFEN CHANNEL 5542 WITH HT
 6712 X 12B (3) I-ANCHOR WITH (6) #4 REBAR
 ALL CARBON STEEL
 HOT DIP GALVANIZED FINISH
 BY OTHERS

83
 96
 90
 91
 45
 70
 69
 48
 46
 54
 51
 67
 98

2 1/8" G.B.
 1 13/16" S.W.
 1/4"
 2 3/16"
 2 3/16"
 1 13/16" S.W.
 1/4"

7000-455
 7000-451
 7000-454
 7000-453
 7000-456
 7000-452
 7000-451

CONT. 03
 86.9°
 14 3/16"
 2 9/16"
 4"
 14 1/4"
 2 1/2"
 6" MIN
 2 9/16"
 3 5/8"
 14 1/4"
 1 1/2"
 1"
 1/4"
 2 3/16"
 1 13/16" S.W.
 15 1/16"
 VAR.

(4) 1/4" SELF DRILLING SCREWS INTO 7000-146
 REFER TO SHEET 8B FOR REINFORCEMENT TYPE, LENGTH & LOCATION
 100
 81 OR 82 REFER TO SHEET 30A FOR ANCHOR & CLIP ANCHOR OPTION REQUIRED
 89
 96
 88
 101

G2A ANCHOR TYPE G2
 (6) #4 REINFORCING BAR
 M20 GRADE 8.8 HALFEN TEE BOLT W/ WASHERS & NUTS (TYP.)

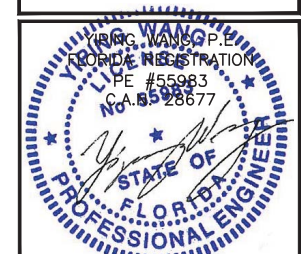
—(6) #4 REINFORCING BAR

—(3) I ANCHORS

TYPE G1, G2

37A OUTSIDE CORNER 86.90° MULL.
34A ANCHOR TYPE G1, G2

FL#28879.2



September 19th, 2023

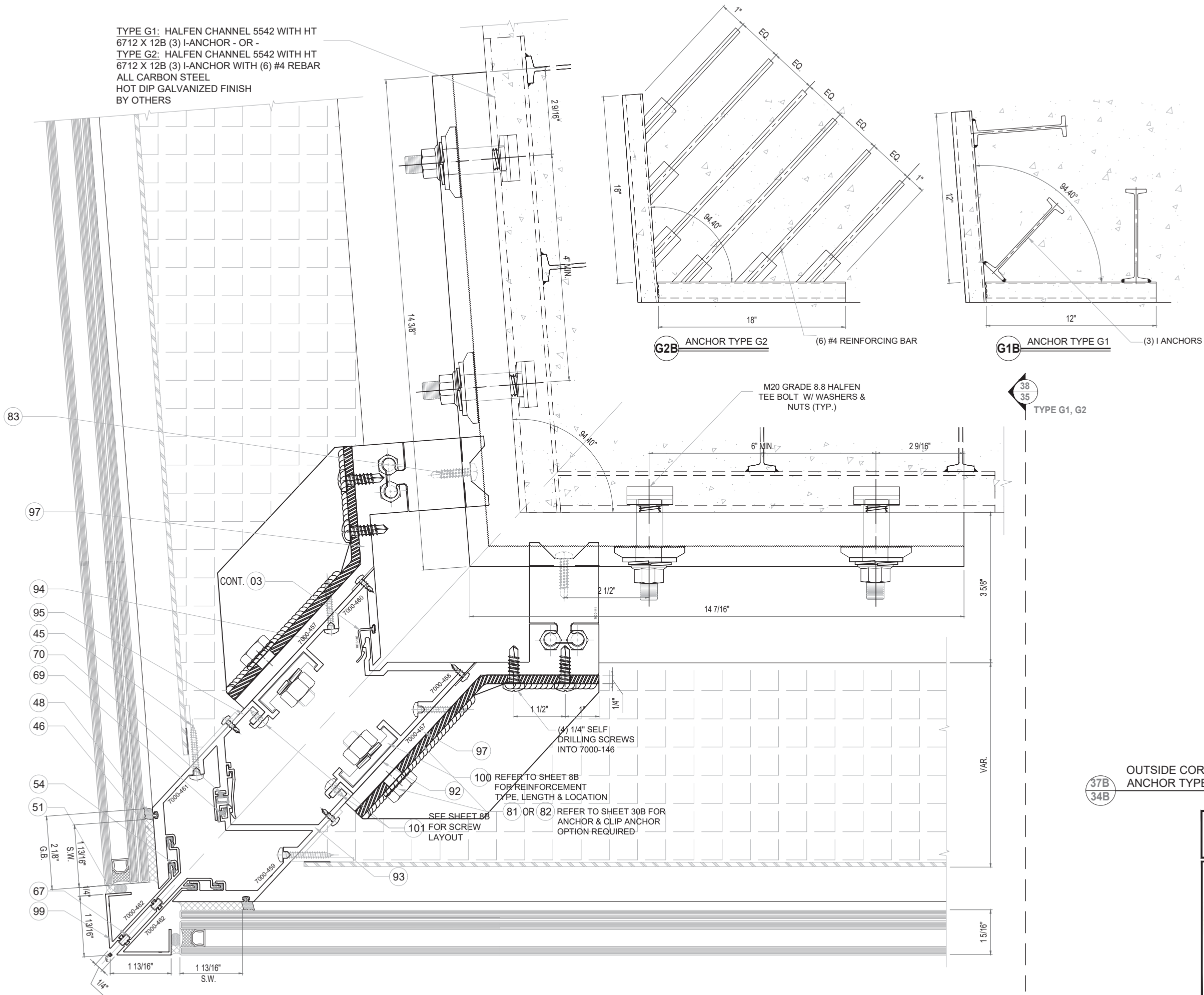
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SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.

AD19-08

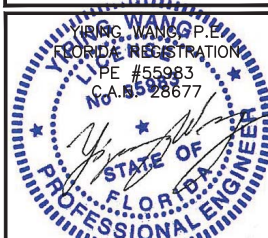
SHEET	34A0F 38
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TYPE G1: HALFEN CHANNEL 5542 WITH HT
6712 X 12B (3) I-ANCHOR - OR -
TYPE G2: HALFEN CHANNEL 5542 WITH HT
6712 X 12B (3) I-ANCHOR WITH (6) #4 REBAR
ALL CARBON STEEL
HOT DIP GALVANIZED FINISH
BY OTHERS



OUTSIDE CORNER 94.40° MULL.
ANCHOR TYPE G1, G2

FLORIDA APPROVAL:
FL#28879.2



September 19th, 2023

REVISIONS	
NO.	DATE
R2	09.19.2023
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MIRAMAR FL 33027

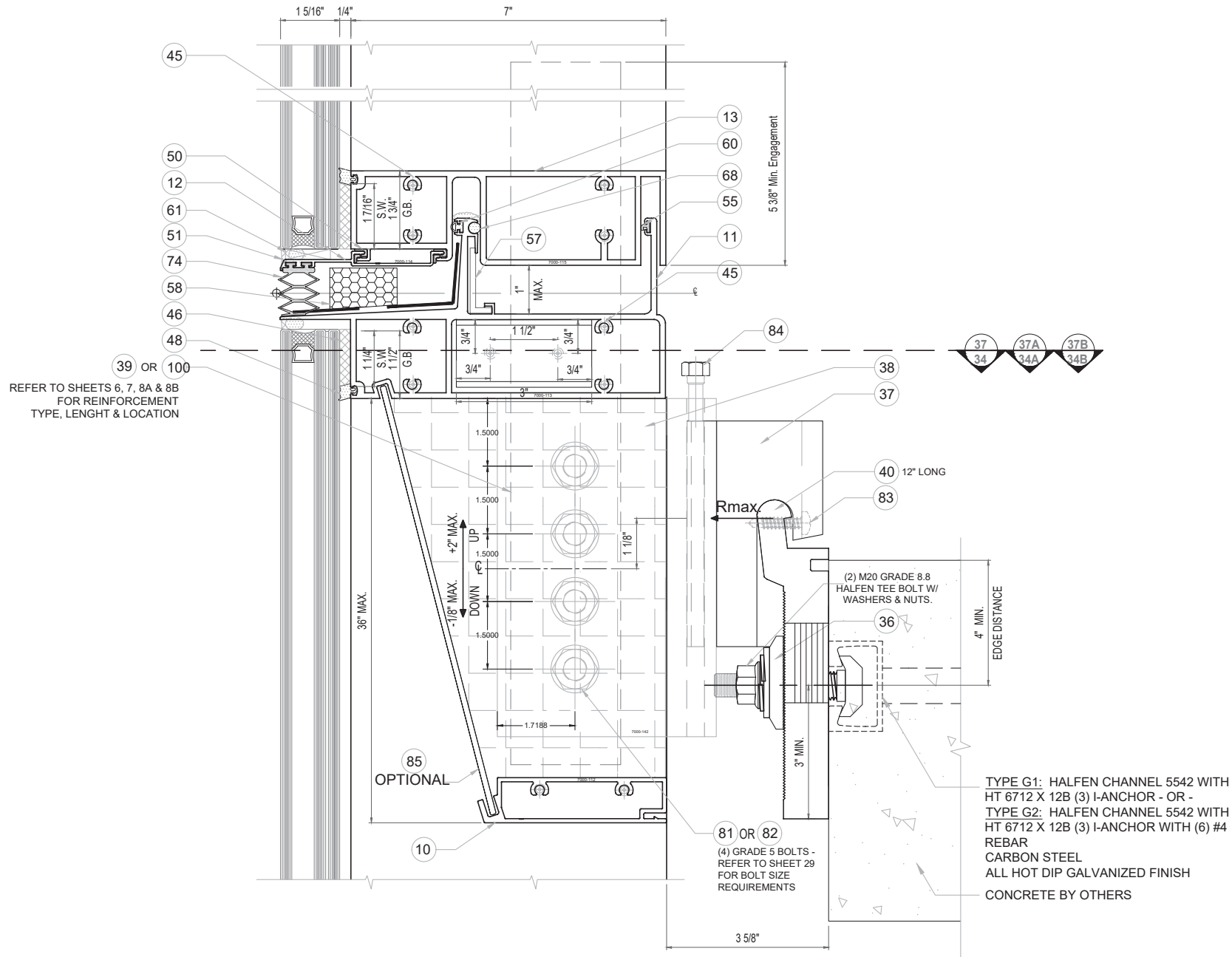
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MCY@mcycengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	
AD19-08	
SHEET 34B0F 38	



	MAX. DESIGN LOAD (PSF)					
	SPAN	MULLION SPACING (M.S.)				
		36	42	48	54	60
TYPE G1	(in)	(in)	(in)	(in)	(in)	(in)
	120	187	160	140	124	112
	126	178	152	133	119	107
	132	170	145	127	113	102
	138	162	139	122	108	97
TYPE G2	144	156	133	117	104	93
	120	187	187	187	187	187
	126	187	187	187	187	187
	132	187	187	187	187	186
	138	187	187	187	187	178
	144	187	187	185	187	170

38 CORNER EXP. JOINT - ANCHOR TYPE G1, G2
35 SECTION

FLORIDA APPROVAL:
FL#28879.2

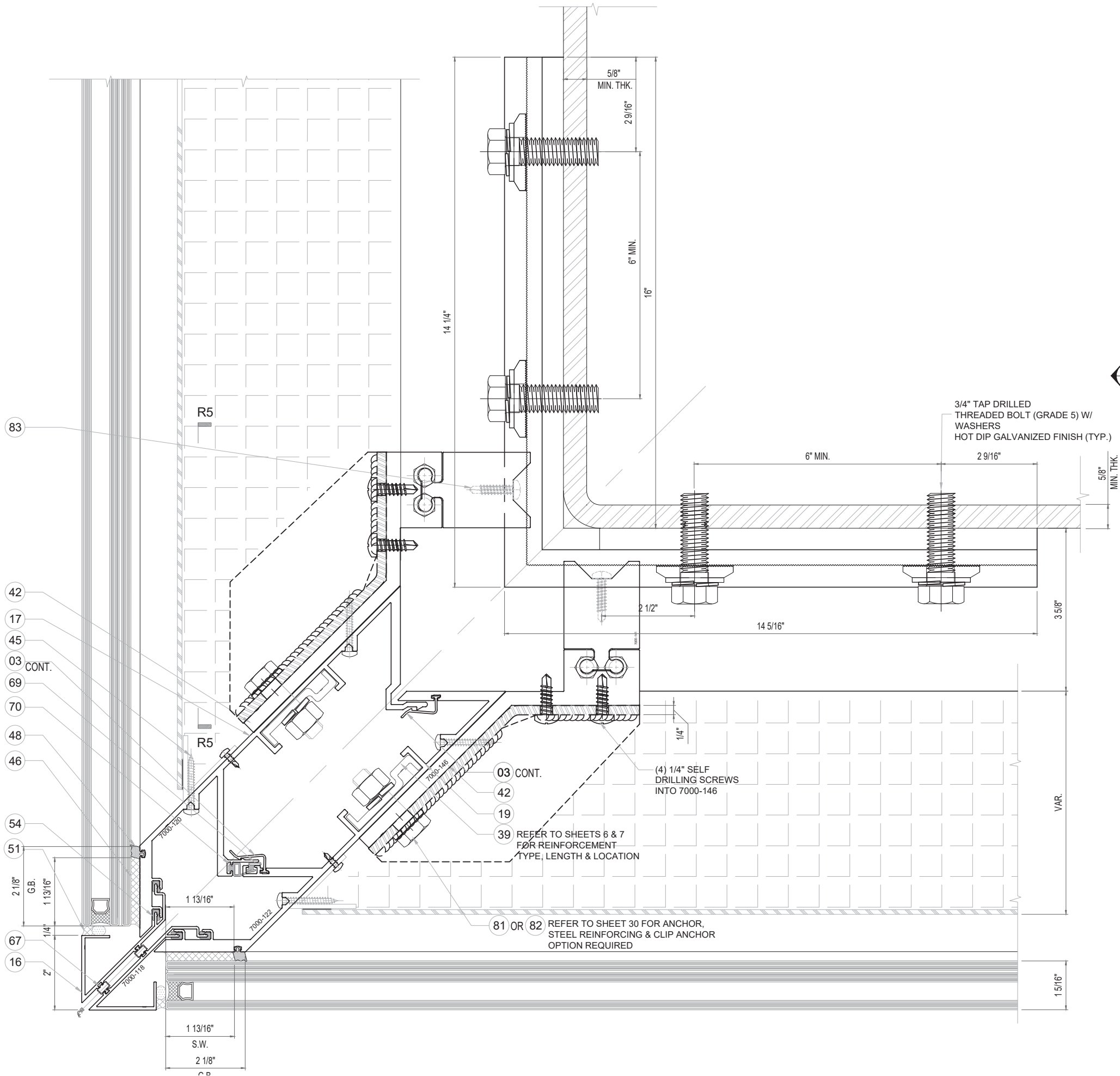
YOUNG WANG
P.E.
FLORIDA REGISTRATION
No. 55983
CA 95586
September 19th, 2023

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.	AD19-08
SHEET	35 OF 38

REVISIONS
NO. DATE DESCRIPTION
R2 09.19.2023 FBC 2023

MCY
ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR FL 33027
P: 305.271.0117
F: 305.588.5224
www.MCYEngineering.com
MCY@mcysengineering.com



40
37
TYPE H

39
36
OUTSIDE CORNER MULL.
ANCHOR TYPE H

FLORIDA APPROVAL:
FL#28879.2

YOUNG, WANG & ASSOCIATES, P.A.
FLORIDA REGISTRATION
PE #55983
CA #55983
No. 28879
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 19th, 2023

REVISIONS	
NO.	DATE DESCRIPTION
R2	09.19.2023 FBC 2023

MCY

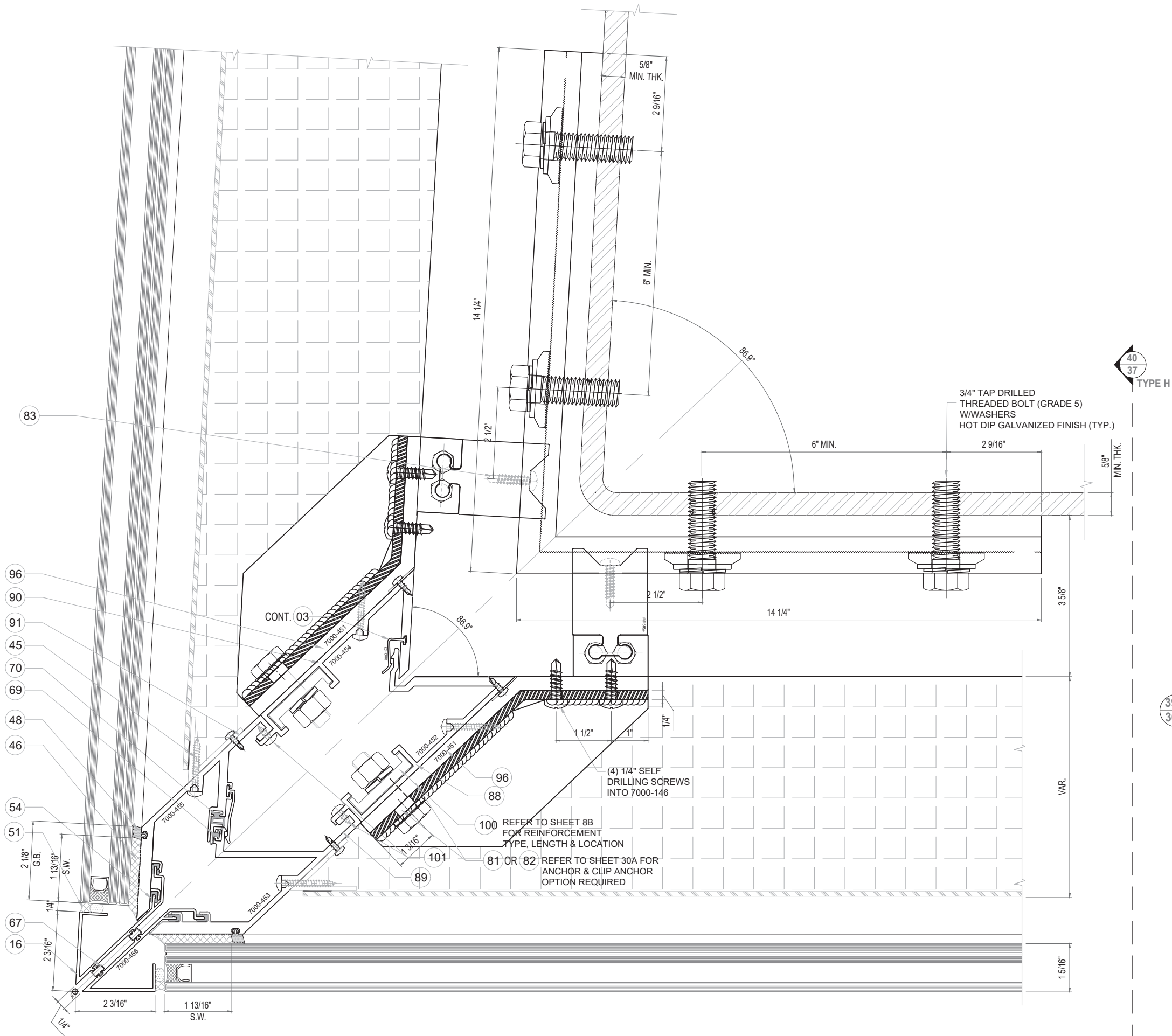
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-08	
SHEET 36 OF 38	



39A
36A

OUTSIDE CORNER 86.90° MULL.
ANCHOR TYPE H

FLORIDA APPROVAL:
FL#28879.2

YOUNG, WANG & ASSOCIATES, P.A.
FLORIDA REGISTRATION
PE #55983
CA #95588
No. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 19th, 2023

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

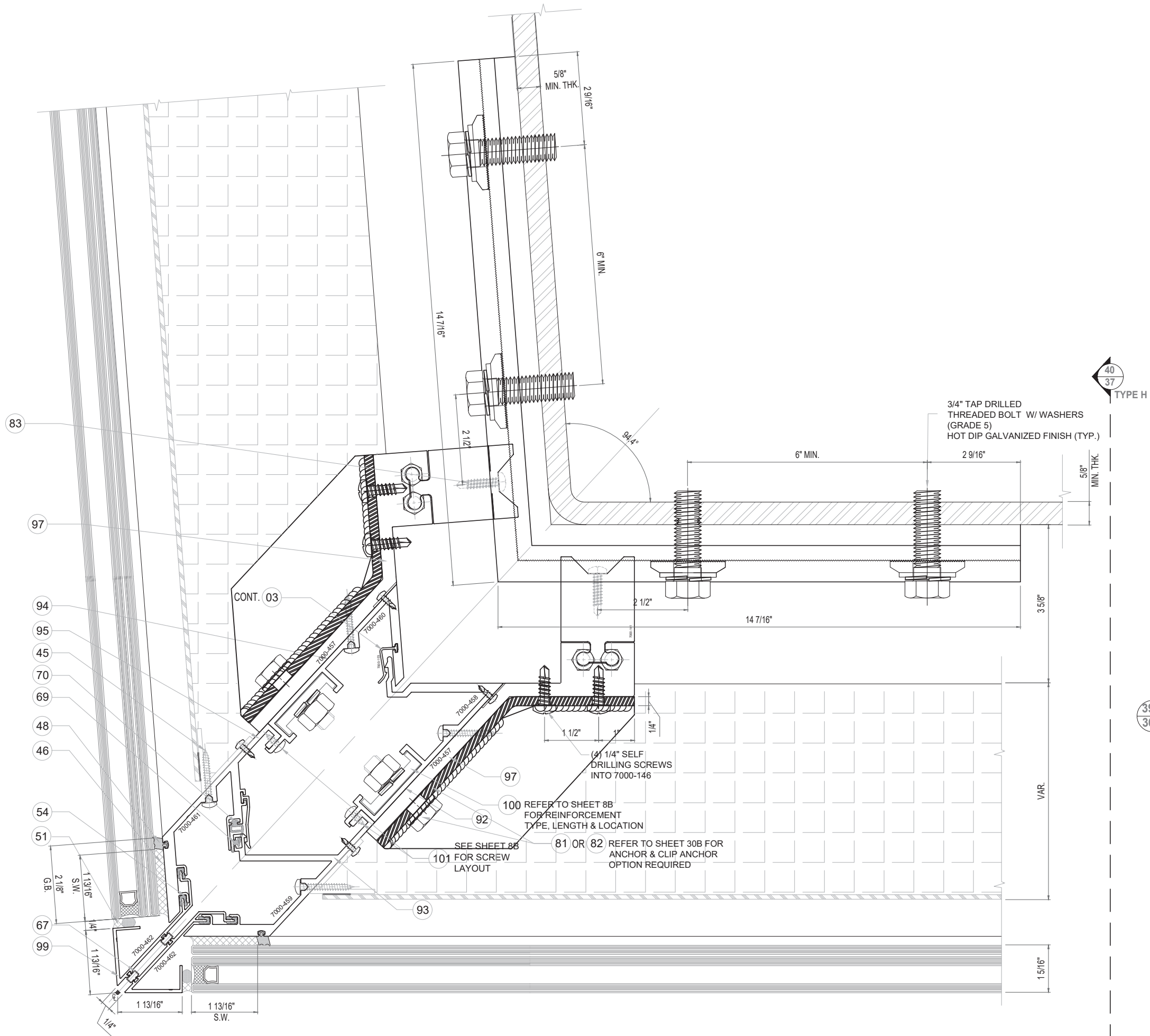
DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-08
SHEET	36A OF 38

MCY

ENGINEERING, INC.
GLAZING CONSULTANTS

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MCY@mcyengineering.com

REVISIONS		
NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023



39B
36B

OUTSIDE CORNER 94.40° MULL.
ANCHOR TYPE H

FLORIDA APPROVAL:
FL#28879.2

YOUNG WANG
P.E.
FLORIDA REGISTRATION
No. 55983
CA 95588

September 19th, 2023

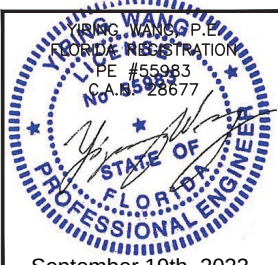
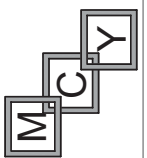
REVISIONS		MCY ENGINEERING, INC.		GLAZING CONSULTANTS	
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023	12781	MIRAMAR PARKWAY #301	P: 305.271.0117
			MIRAMAR FL33027	F: 305.588.5224	
			www.MCYEngineering.com	MCY@mcyeengineering.com	

SERIES 7000 ALUMINUM CURTAIN WALL - SMI		TECNOGLASS, LLC.	
		3550 NW 49th Street, MIAMI, FL 33142	
		Phone (305) 342-0890 Fax (786) 513-3965	

DATE	09.19.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.	
AD19-08	

SHEET	36B0F 38
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ITEM #	DESCRIPTION	MATERIAL	GLASSWALL PARTS #	MANUF. / REMARKS	ITEM #	DESCRIPTION	MATERIAL	GLASSWALL PARTS #	MANUF. / REMARKS																							
01	FEMALE MULLION EXTENDED LEG	6063-T6	7000-101		56	5/8" +/- 1/8" SHIM	-	-																								
02	MALE MULLION	6063-T6	7000-102		57	1 7/16" X 1/2" X 1/8" THK. ANGLE	ALUM.	-																								
03	ANTI-BUCKLING CLIP	6063-T6	7000-103	4" LG. @ 12" O.C. MAX. TYP. CONT. AT CORNER MULLION	58	SPONGE BUFFER	-	-																								
04	EXTENDED BEAUTY CAP	6063-T6	7000-104		59	7/16" CW SPACER	ALUM.	W5250-301	LINGEMANN GmbH																							
05	MALE MULLION EXTENDED LEG	6063-T6	7000-105		60	STACK JOINT FRONT GASKET	-	065-011																								
06	BEAUTY CAP	6063-T6	7000-107		61	1" x 1/4" SETTING BLOCK	-	-																								
07	FEMALE MULLION BUTT GLAZED	6063-T6	7000-108		62	8" X 12" X 1/2" THK. TUBE	A36 STEEL	-																								
08	MALE MULLION BUTT GLAZED	6063-T6	7000-109		63	1" X 1" X 1/16" THK. ANGLE	ALUM.	-																								
09	PRESSURE PLATE	6063-T6	7000-110		64	GASKET .25" PUSH IN	SILICONE	WW7000-NE003																								
10	HORIZONTAL AT STACK JOINT	6063-T6	7000-112		65	1 5/8" X 3 1/4" X 1/8" THK. TUBE	ALUMINUM	-																								
11	CHICKEN HEAD	6063-T6	7000-113		66	TUBE	ALUMINUM	-																								
12	STACK JOINT FIN	6063-T6	7000-114	CONT.	67	MULL EXTERIOR VERT JOINT FILLER	-	065-015																								
13	EXPANSION SILL	6063-T6	7000-115		68	CHICKEN HEAD SPACER	-	065-008	4" LG. @ 12" O.C. MAX. TYP. AT EACH FRAME SILL ADAPTOR																							
14	HEAD SILL COVER	6063-T6	7000-116		69	MULLION AIR BARRIER	EPDM	065-009																								
15	HEAD/SILL	6063-T6	7000-117		70	MULLION INTERIOR VERTICAL AIR SEAL	EPDM	065-019																								
16	EXTERIOR CORNER COVER	6063-T6	7000-118		71	PVC PART SOLID	PVC	WW7000-NE006	DUROMETER 60/70 + 5 SHORE A																							
17	EXTERIOR CORNER MALE MULLION	6063-T6	7000-120		72	PVC PART	PVC	WW7000-NE005	DUROMETER 60/70 + 5 SHORE A																							
18	INTERIOR CORNER FIN	6063-T6	7000-121		73	BULB GASKET 3/8" SLIDE		WW7000-NE007	DUROMETER 60/70 + 5 SHORE A																							
19	EXTERIOR CORNER FEMALE MULLION	6063-T6	7000-122		74	EXPANSION JOINT GASKET		WW7000-NE001	DUROMETER 60/70 + 5 SHORE A																							
20	INTERIOR CORNER FIN	6063-T6	7000-123		75	1 7/8" x 1/4" SETTING BLOCK	EPDM																									
21	INTERIOR CORNER FEMALE MULLION	6063-T6	7000-124		76	5/16-12 SELF TAPPING SCREW SAE GRADE 5			SCREWS SPACED 3 .75" O.C.																							
22	INTERIOR CORNER MALE MULLION	6063-T6	7000-125		77	ST-1: 3/4" THK. REINFORCEMENT	A50 STEEL		Fy = 50 ksi																							
23	CHICKEN HEAD SUB-SILL	6063-T6	7000-126		78	ST-2: 1/4" THK. REINFORCEMENT	A36 STEEL		Fy = 36 ksi																							
24	SILL	6063-T6	7000-127		79	ST-4: 1/2" THK. REINFORCEMENT	A50 STEEL		Fy = 50 ksi																							
25	HORIZONTAL MULLION	6063-T6	7000-128		80	#12 X 1" PHILLIPS PAN HEAD SMS	STAINLESS STEEL																									
26	HORIZONTAL BUTT GLAZED	6063-T6	7000-129		81	1/2 - 13 SAE GRADE 5 (F.H. OR HEXAGONAL)	STEEL		Fy = 92 ksi Fu = 120 ksi																							
27	HORIZONTAL BUTT GLAZED FIN	6063-T6	7000-130	6" LG. (2) AT EA. PANEL AT 1/4 POINT	82	5/8 - 11 SAE GRADE 5 (F.H. OR HEXAGONAL)	STEEL		Fy = 92 ksi Fu = 120 ksi																							
28	CRESCENT FEMALE MULLION	6063-T6	7000-131		83	1/4" X 3/4" LG. SMS	STAINLESS STEEL		Fy = 65 ksi Fu = 100 ksi																							
29	CRESCENT MALE MULLION	6063-T6	7000-132		84	7/16 - 14 X 1" LG. SAE GRADE 5	STEEL		Fy = 92 ksi Fu = 120 ksi																							
30	HEAD BUTT GLAZED	6063-T6	7000-133		85	ALUMINUM PANEL - 18 GA MIN.	3003-H14																									
31	STACK JOINT COVER	6063-T6	7000-134		86	CRESCENT FEMALE MULLION	6063-T6	7000-464																								
32	CHICKEN HEAD WITHOUT COVER	6063-T6	7000-135		87	CRESCENT MALE MULLION	6063-T6	7000-465																								
33	SILL COVER	6063-T6	7000-136		88	BACK CORNER MALE 86.9°	6063-T6	7000-452																								
34	SILL COVER BUNGALOW	6063-T6	7000-137		89	FRONT CORNER MALE 86.9°	6063-T6	7000-453																								
35	SLAB ANCHOR	6061-T6	7000-139		90	BACK CORNER FEMALE 86.9°	6063-T6	7000-454																								
35A	CORNER SLAB ANCHOR	6061-T6	7000-139A		91	FRONT CORNER FEMALE 86.9°	6063-T6	7000-455																								
36	SERRATE WASHER	6061-T6	7000-140		92	BACK CORNER MALE 94.4°	6063-T6	7000-458																								
37	MULLION ANCHOR HOOK	6061-T6	7000-141		93	FRONT CORNER MALE 94.4°	6063-T6	7000-459																								
38	MULLION ANCHOR FIST	6061-T6	7000-142		94	BACK CORNER FEMALE 94.4°	6063-T6	7000-460																								
39	ALUMINUM SPLI CE - AS-1	6061-T6	7000-143		95	FRONT CORNER FEMALE 94.4°	6063-T6	7000-461																								
40	SHEAR ANCHOR PLATE	6061-T6	7000-144		96	OUTSIDE CORNER 86.9° ANCHOR FIST	6063-T5	7000-451																								
41	INSIDE CORNER ANCHOR FIST	6061-T6	7000-145		97	OUTSIDE CORNER 94.4° ANCHOR FIST	6063-T5	7000-457																								
42	OUTSIDE CORNER ANCHOR FIST	6061-T6	7000-146		98	EXTERIOR CORNER 86.9° COVER	6063-T6	7000-456																								
43	RAILING COVER	6063-T6	7000-149		99	EXTERIOR CORNER 94.4° COVER	6063-T6	7000-462																								
44	HORIZONTAL RAILING	6063-T6	7000-150		100	ALUMINUM SPLI CE - AS-2	6061-T6	7000-143																								
45	# 14 X 11/2" LG. PH. SMS. 18-8 CW SERIES ASSY. SCREW	STAINLESS STEEL	-		101	#10 x 1/2" LG. PH SMS SCREW	STAINLESS STEEL	-																								
46	STRUCTURAL SILICONE	SILICONE	GE SSG 4600	SEE CHART SHEET 07	FLORIDA APPROVAL: FL#28879.2  September 19th, 2023																											
47	TWO PART STRUCTURAL SILICONE	SILICONE	-																													
48	EXTERIOR PRESSURE GASKET	EPDM	W5250-NS02	DUROMETER 70 + 5 SHORE A																												
49	1 5/16" INSULATED LAMINATED GLASS	GLASS	-																													
50	EXP. JT. GLASS SHELF ISOLATOR	RIGID VINYL	065-012																													
51	CONT. SILICONE SEALANT AND BACKER-ROD	SILICONE	-																													
54	THERMAL ISOLATOR	RIGID VINYL	065-018																													
55	MULLION SEAL GASKET	EPDM	W5250-NE01																													
					REVISIONS <table><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td>R2</td><td>09.19.2023</td><td>FOC 2023</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> MCY ENGINEERING, INC. GLAZING CONSULTANTS  12781 MIRAMAR PARKWAY #301 MIRAMAR FL 33027 P: 305.271.0117 F: 305.588.5224 www.MCYEngineering.com MCY@mcyengineering.com SERIES 7000 ALUMINUM CURTAIN WALL - SMI TECNOGLASS, LLC. 3550 NW 49th Street, MIAMI, FL 33142 Phone (305) 342-0890 Fax (786) 513-3965 <table><tr><td>DATE</td><td>09.19.2023</td></tr><tr><td>SCALE</td><td>AS NOTED</td></tr><tr><td>DRAWN</td><td>James</td></tr><tr><td>PROJECT</td><td>MCY19-010</td></tr></table> DRAWING NO. AD19-08 SHEET 38 OF 38					NO.	DATE	DESCRIPTION	R2	09.19.2023	FOC 2023										DATE	09.19.2023	SCALE	AS NOTED	DRAWN	James	PROJECT	MCY19-010
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