

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

CURTAIN WALL SYSTEM RATED FOR LARGE MISSILE IMPACT.

SERIES 7000 CURTAIN WALL

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

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH FBC APPROVED LARGE 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 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 7-22, 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 7-22 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 03B & 03C 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 08 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
E.J. - EXPANSION JOINT
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
LG. - LONG
STL. - STEEL
ALUM. - ALUMINUM
MULL. - MULLION
HORIZ. - HORIZONTAL
W/ - WITH
W/O - WITHOUT
S.S. - STAINLESS STEEL
M.S. - MULLION SPACING
S.W. -SILOCONE WIDTH
G.B. - GLASS BITE

- CENTER LINE
H.S. - HEAT STRENGTHENED
SSG - STRUCTURAL SILICONE GLAZED
TEMP. - TEMPERED
O.C. - ON CENTER
▲ - DEADLOAD+WINDLOAD ANCHOR
△ - WINDLOAD ANCHOR
I.S. - INSIDE
WL - WIND LOAD
DL - DEAD LOAD
Pd - DESIGN LOAD (PSF)

SECTION NUMBER



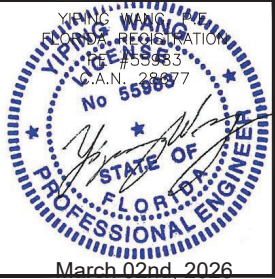
SHEET NUMBER

LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
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FLORIDA APPROVAL:

FL#28879.1



REVISIONS		
NO.	DATE	DESCRIPTION
R3	03.02.2026	REVISION

MCY

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GLAZING CONSULTANTS

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

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07
SHEET	01 OF 38

SERIES 7000 CURTAIN WALL (LMI / 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-1 1 3/8" NOMINAL INSULATED LAMINATED GLASS OF:
1/4" TEMPERED GLASS,
7/16" AIR SPACE, SPACER BY LINGEMANN GmbH,
5/16" THK H.S. GLASS
0.090" SENTRY GLASS INTERLAYER BY KURARAY AMERICA, INC
5/16" THK. H.S. 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.

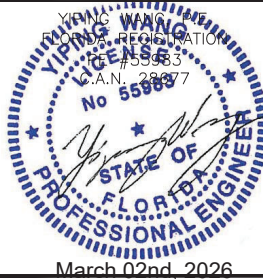
GENERAL NOTES

- CURTAIN WALL SYSTEM IS RATED FOR LARGE/SMALL MISSILE IMPACT. SHUTTERS NOT REQUIRED.
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLYWITH 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

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- 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#28879.1



DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07

SHEET01AOF 38

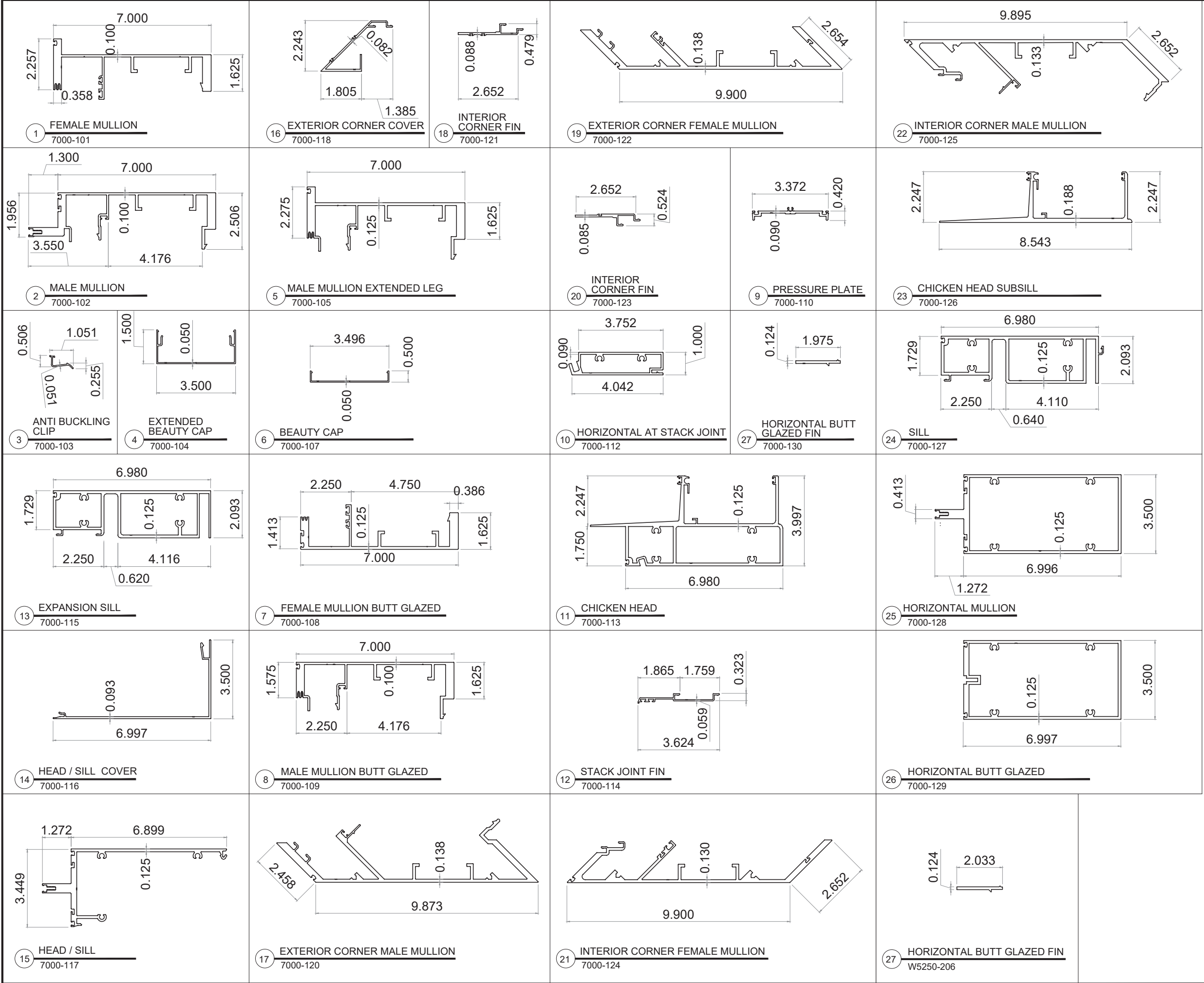
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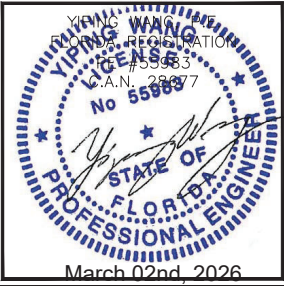
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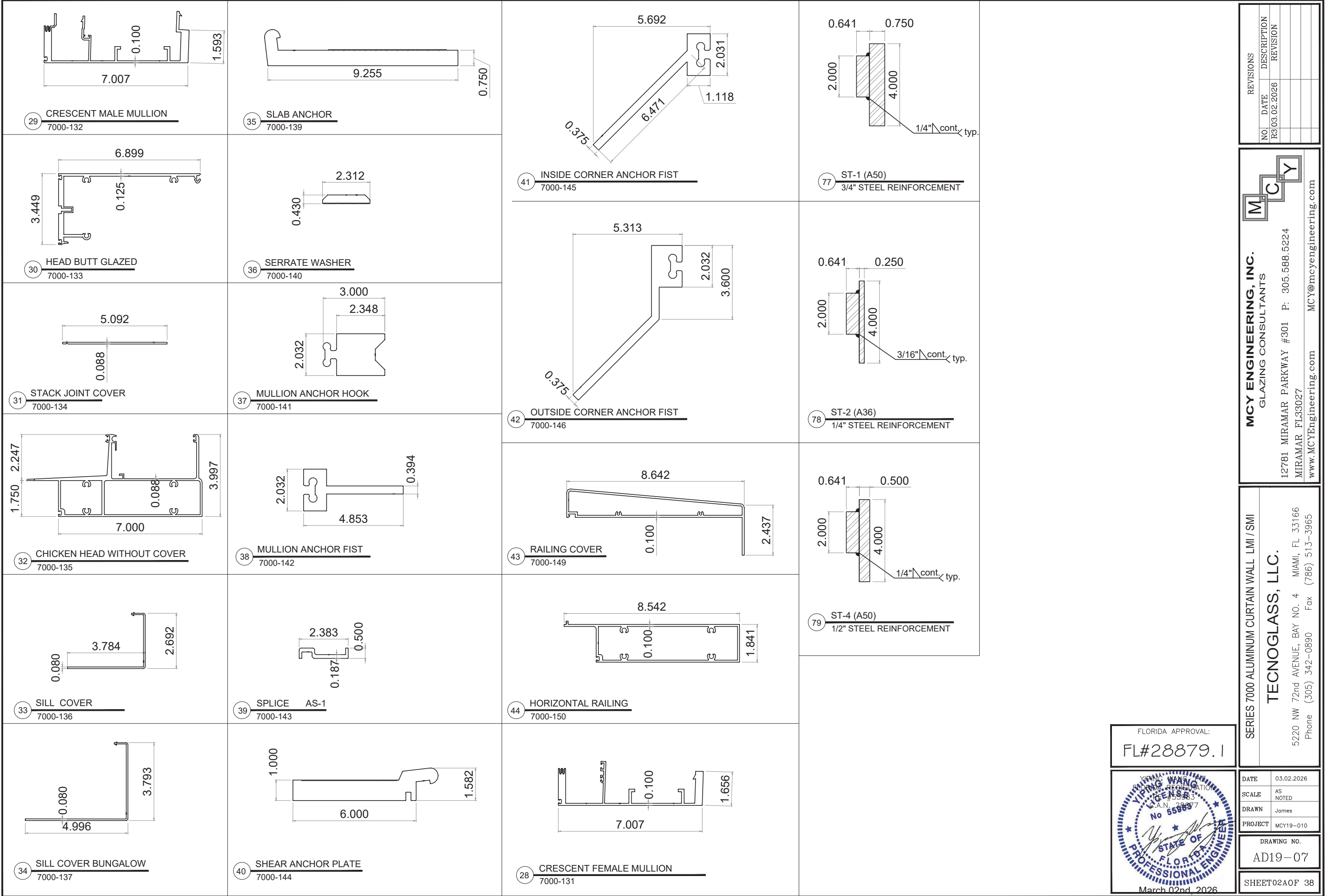
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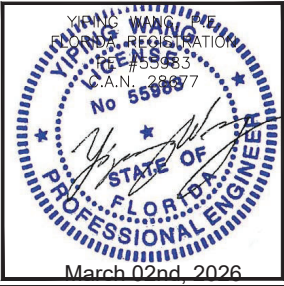
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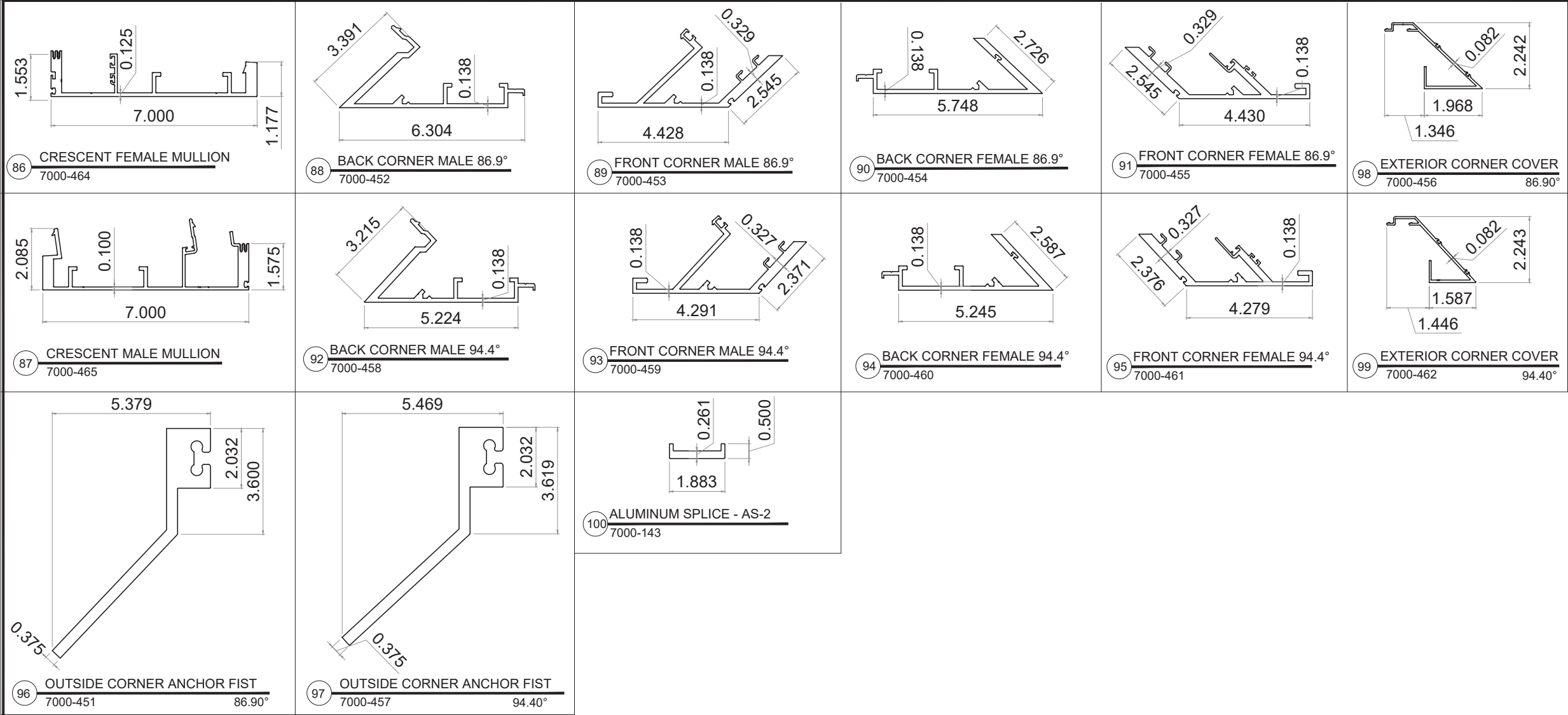
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SHEET02AOF 38	



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FL#28879.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No. 55983
C.A.N. 03/02/2026

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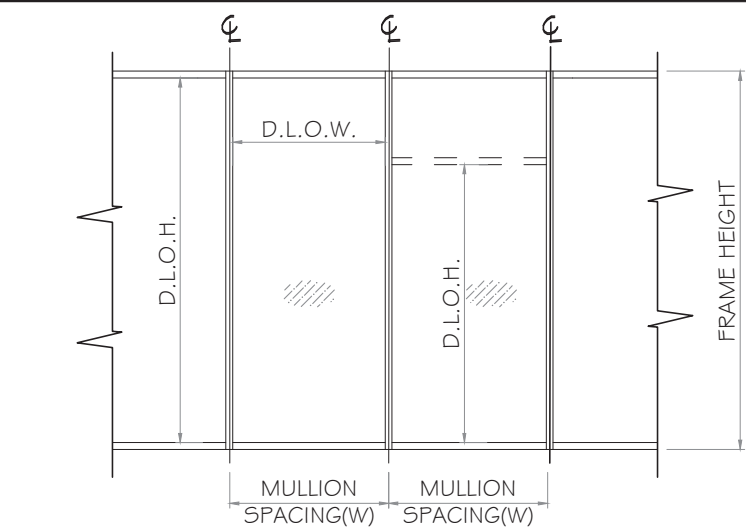
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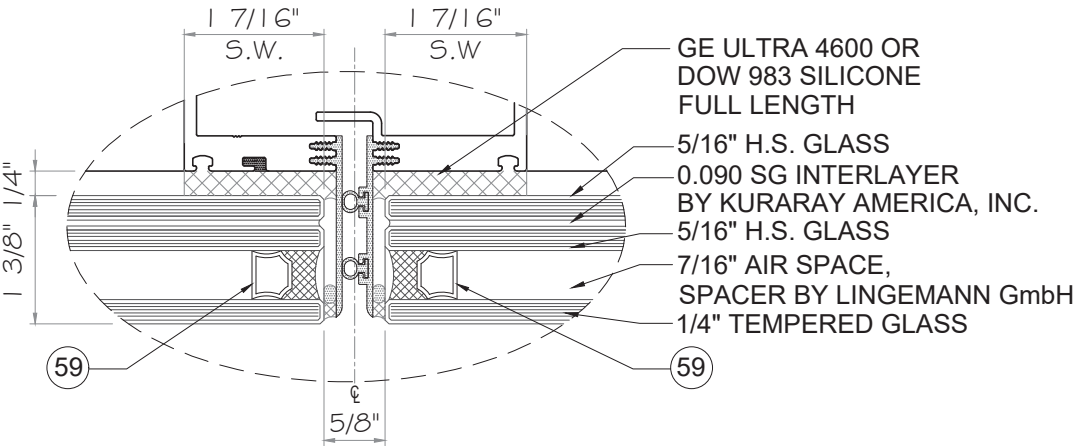
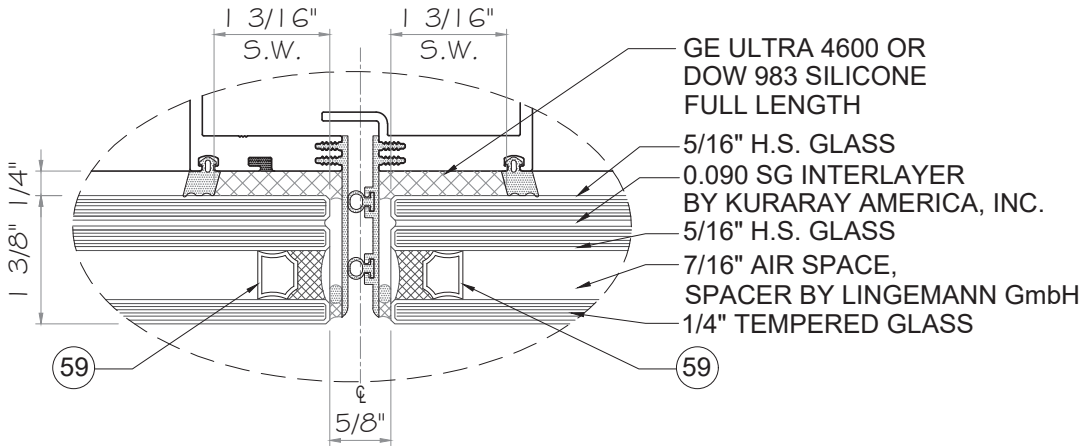
DRAWING NO.
AD19-07

SHEET 02B OF 38

DLO WIDHT	DLO HEIGHT	Pdall. (PSF)
(in)	(in)	GL- I
44.5	96	140.0
50.5		140.0
56.5		140.0
44.5	102	140.0
50.5		140.0
56.5		140.0
44.5	108	140.0
50.5		140.0
56.5		140.0
44.5	114	140.0
50.5		140.0
56.5		140.0
41.5	120	140.0
44.5		140.0
50.5		140.0
38.5	126	140.0
41.5		140.0
44.5		140.0
47.5	132	140.0
50.5		140.0
56.5		140.0
38.5	138	140.0
41.5		140.0
44.5		140.0
47.5	144	140.0
50.5		140.0
56.5		140.0



**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 3/16 "	1 7/16 "
5'-0"	114 PSF	138 PSF
4'-6"	126.7 PSF	140 PSF
4'-0"	140 PSF	140 PSF

GLASS "GL-1" 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

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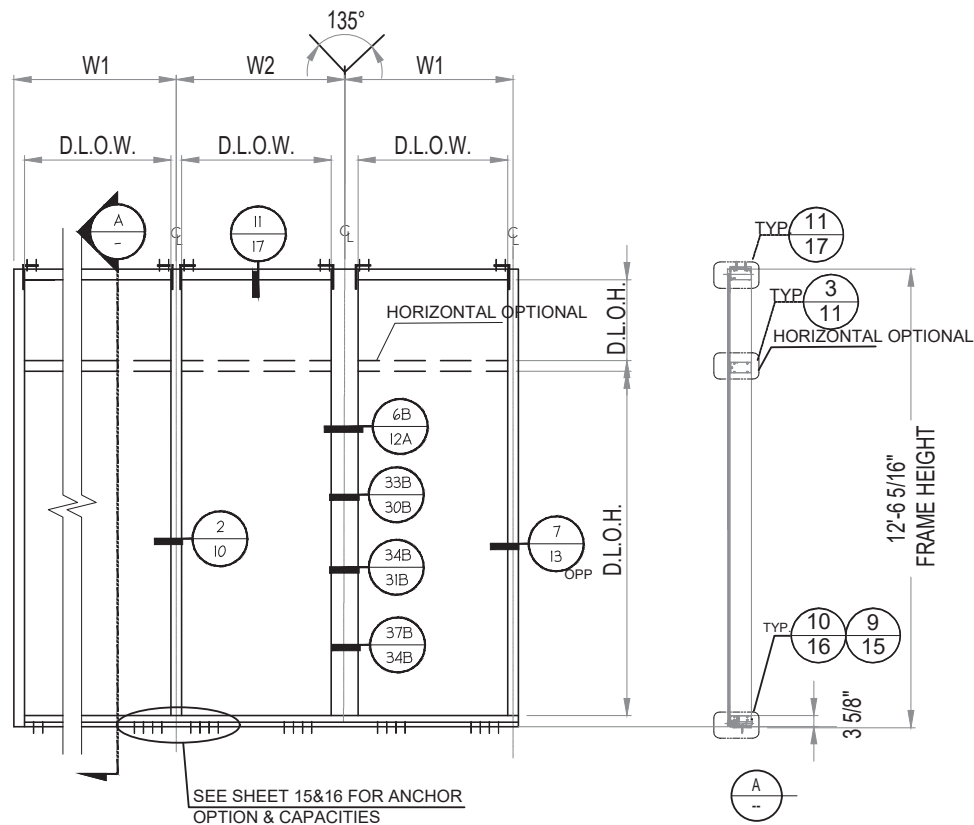
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YIPING WANG, P.E.
PROFESSIONAL ENGINEER
#55983
C.A.N. #55983

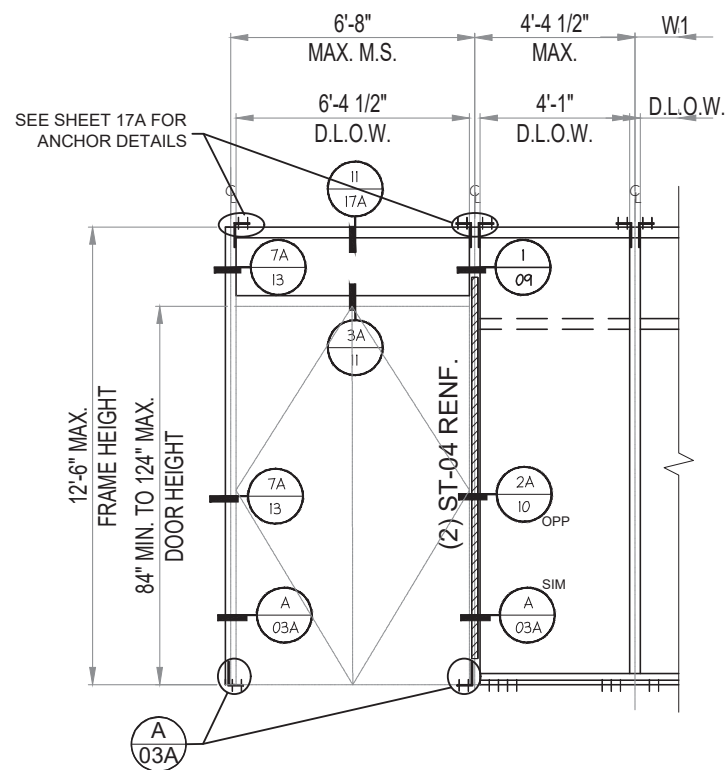
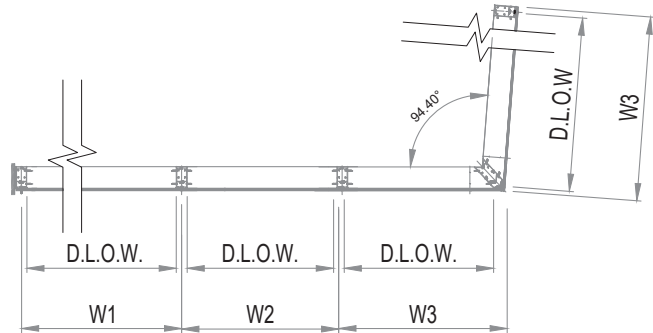
March 02nd, 2026

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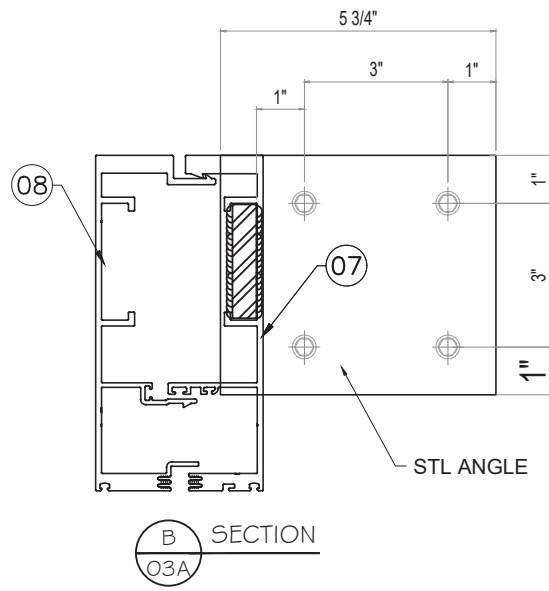
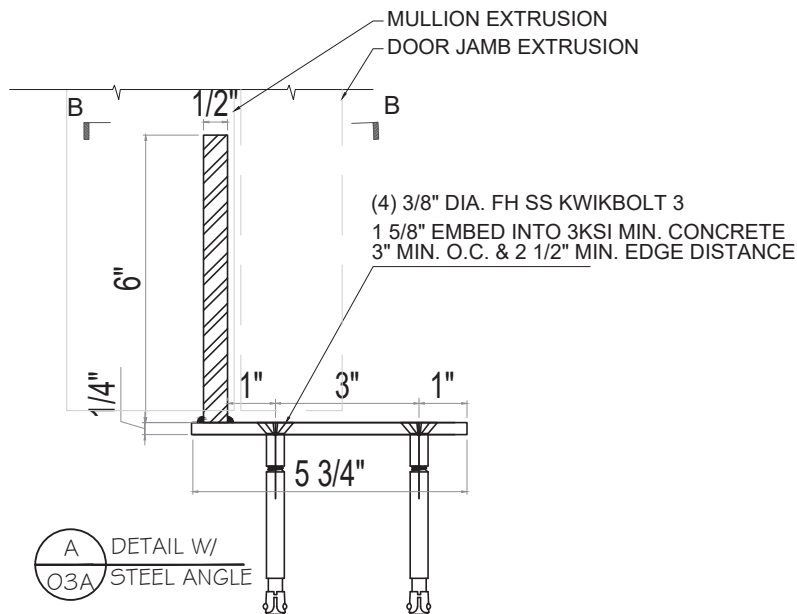
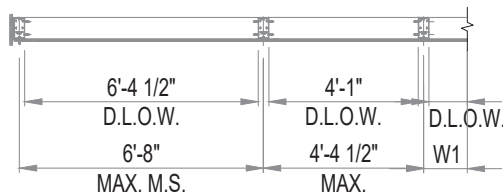


TYPICAL SINGLE SPAN ELEVATION - WINDOW WALL
SEE SHEET 03B FOR MULLION OPTIONS AND CAPACITIES

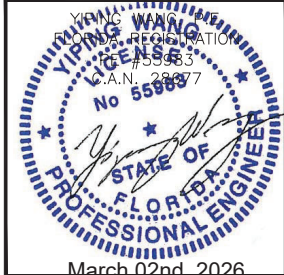


SINGLE SPAN ELEVATION - WINDOW WALL W/ DOOR

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



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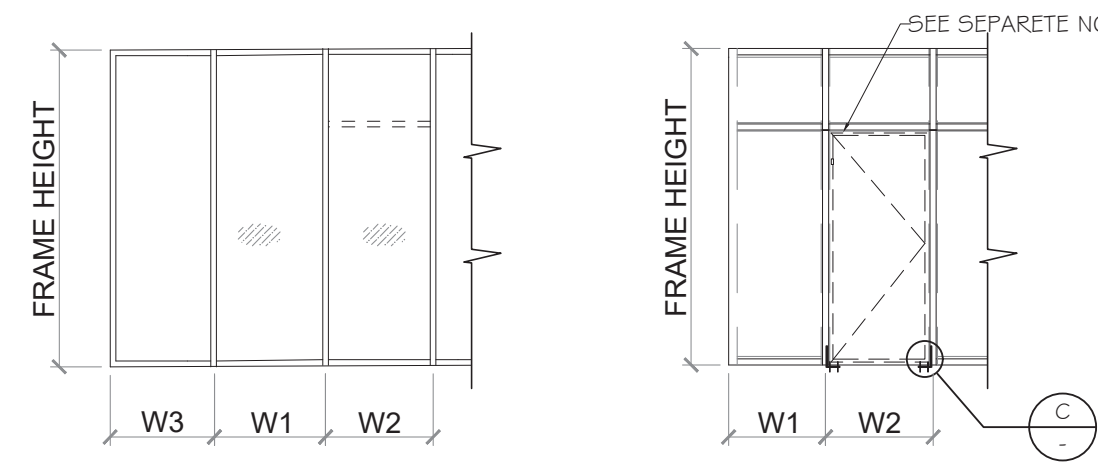
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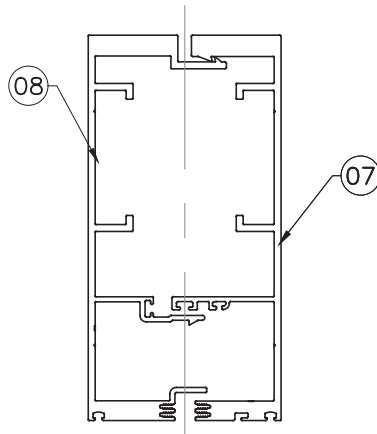
SINGLE SPAN- DESIGN LOAD CAPACITY							
HEIGHT	SPACING	M I		M2,J I		CM3	
in.	in.	(+) psf.	(-) psf.	(+) psf.	(-) psf.	(+) psf.	(-) psf.
120	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
	60	100	125	100	132	100	132
126	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
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	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
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	48	100	125	100	132	100	132
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	48	100	125	100	132	100	132
	54	100	119	100	131	100	131
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	51.5	100	115	100	132	100	132



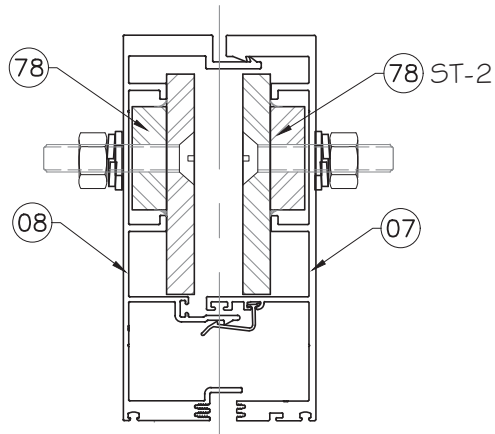
WIDTH (W) = $\frac{W1 + W2}{2}$ OR $\frac{W3 + W1}{2}$
AT MULLION

WIDTH (W) = W3
AT JAMB

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

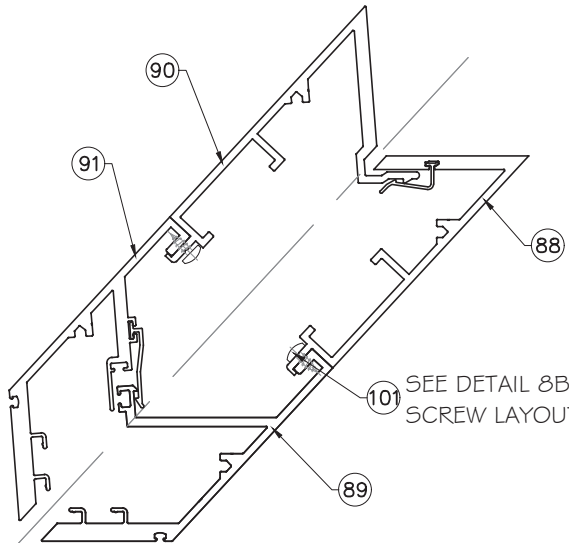


MULLION (M1)



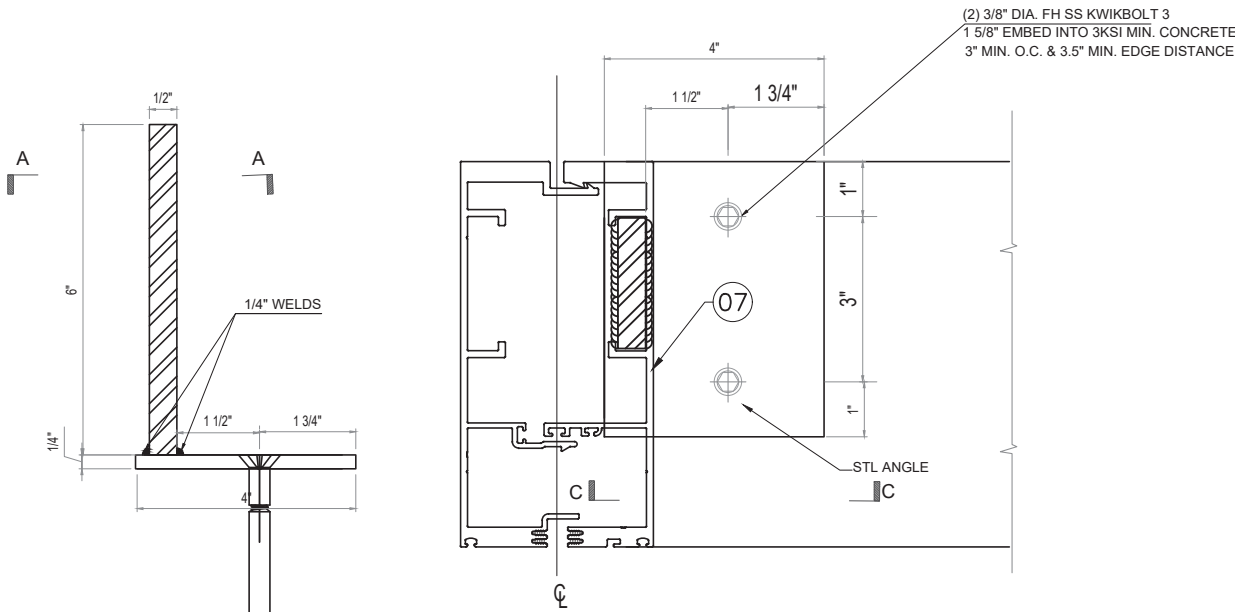
MULLION (M2) (J1)

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



DETAIL

SECTION VIEW
STEEL CLIP
ATTACHEMENT AT DOOR SIDE

FLORIDA APPROVAL:
FL#28879.1



REVISIONS		
NO.	DATE	DESCRIPTION
R3	03.02.2026	REVISION

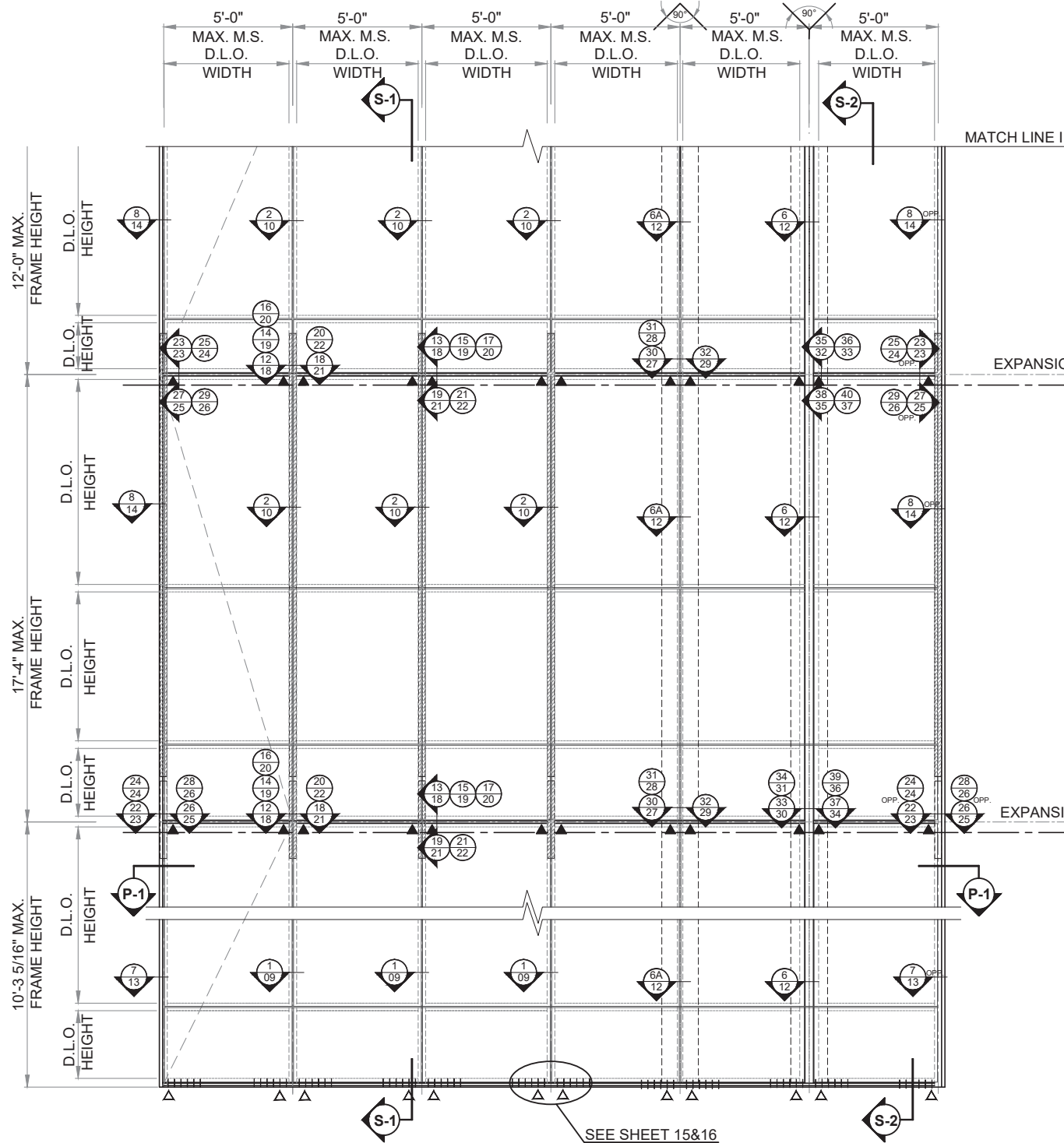
MCY

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12781 MIRAMAR PARKWAY #301 P: 305.588.5224
MIRAMAR FL 33027
www.MCYEngineering.com MCY@mcyengineering.com

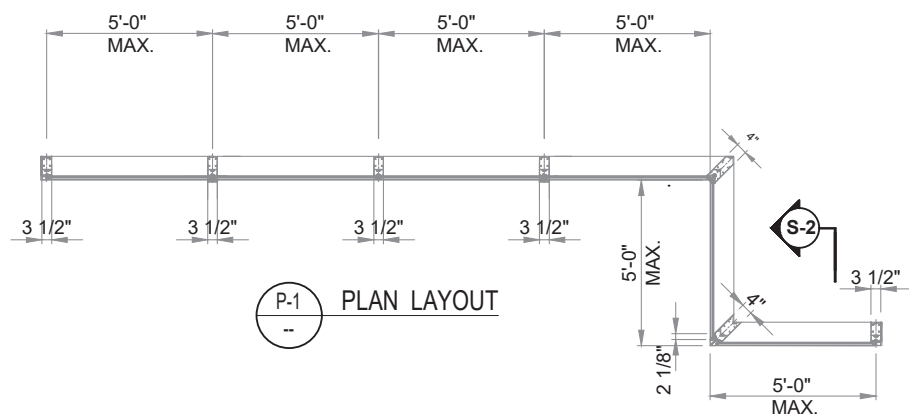
SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

TECNOGLASS, LLC.
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-07	
SHEET 03B0F 38	



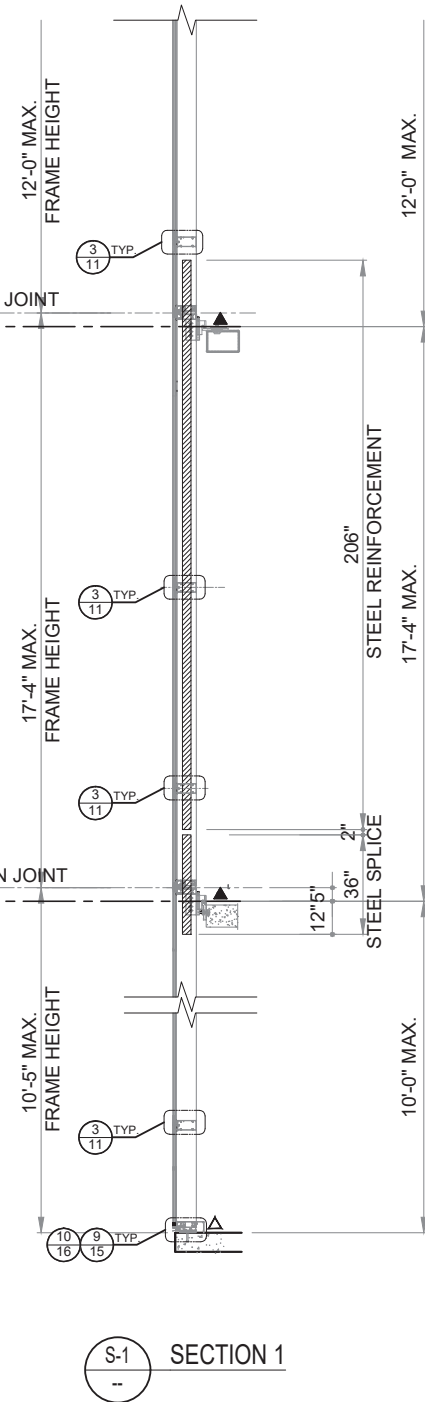
MULTIPLE SPAN ELEVATION - CURTAIN WALL
(THREE SPAN MIN.)



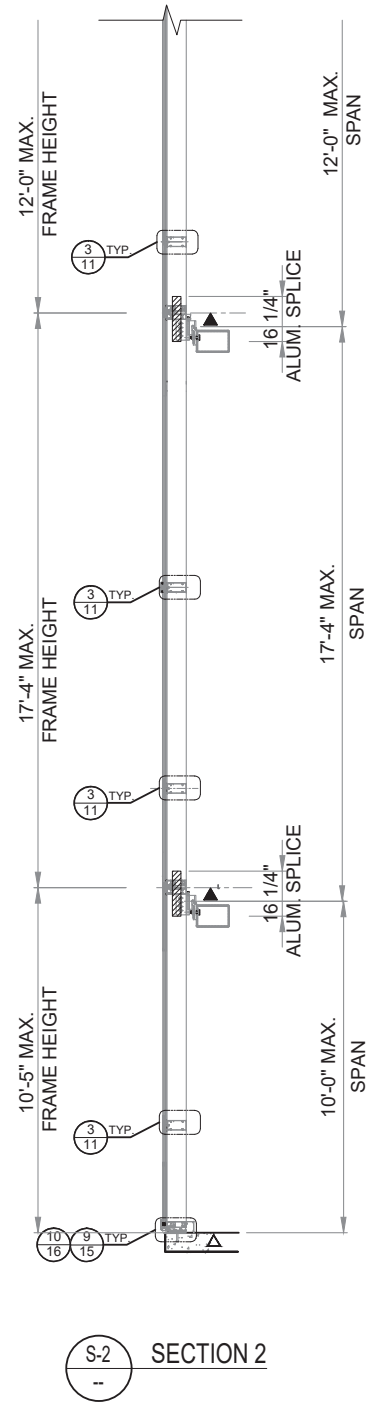
P-1 PLAN LAYOUT

DESIGN LOAD V.S. MULLION
SPAN AND REINFORCEMENT
REFER TO SHEET 06,07, 8A & 8B.

- ▲ - DEADLOAD+WINDLOAD ANCHOR
- △ - WINDLOAD ANCHOR



S-1 SECTION 1



S-2 SECTION 2

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#28879.1

YIPING WANG
PROFESSIONAL ENGINEER
No. 55983
March 02nd, 2026

REVISIONS		
NO.	DATE	DESCRIPTION
R3	03.02.2026	REVISION

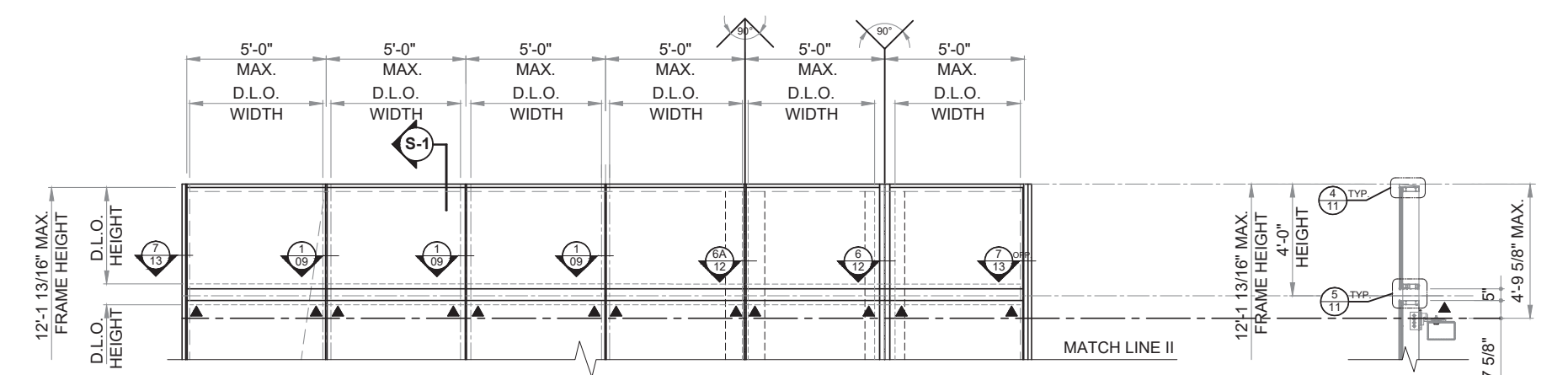
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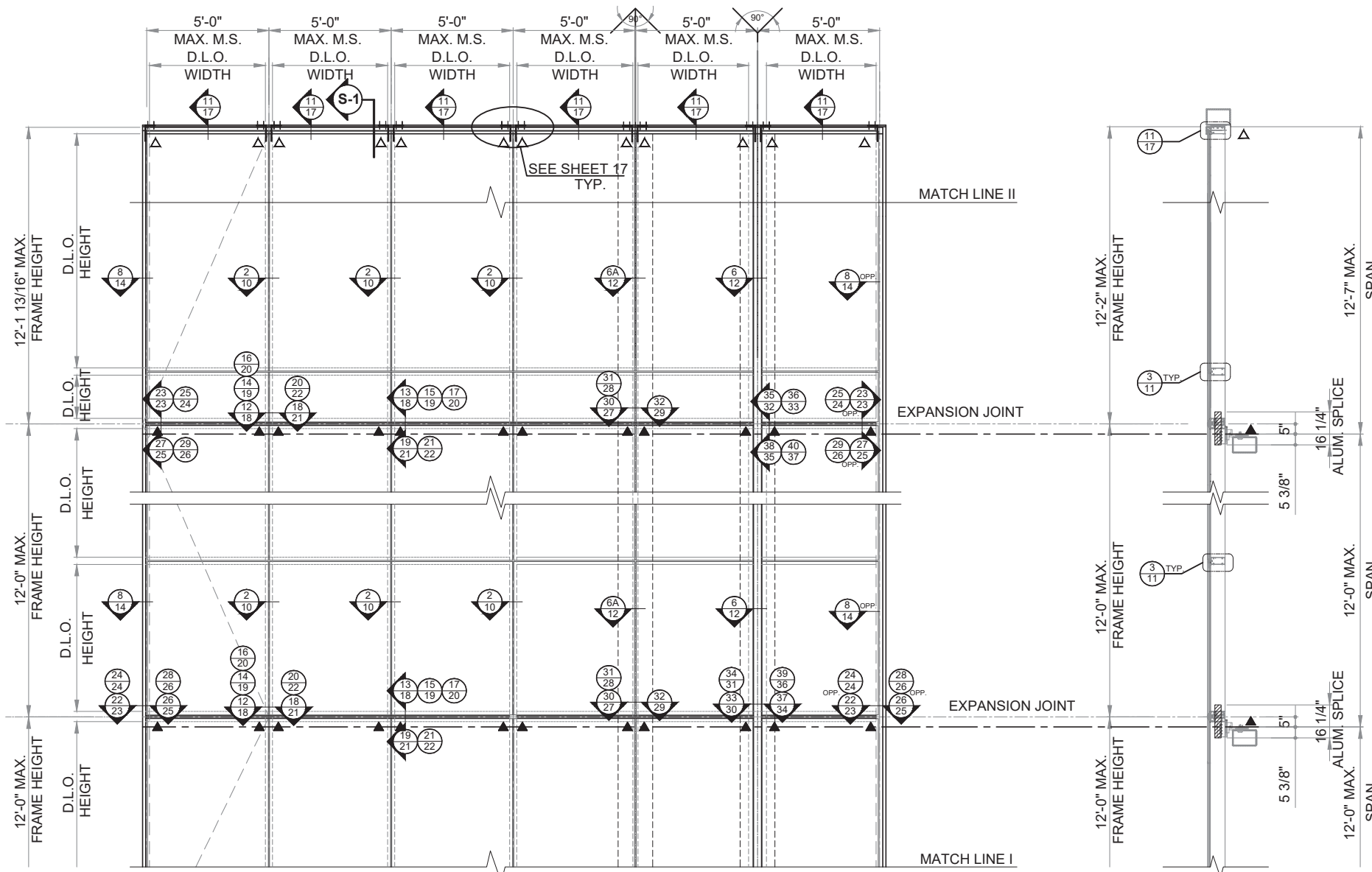
DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07

SHEET 04 OF 38



TOP CURTAIN WALL CANTILEVER OPTION

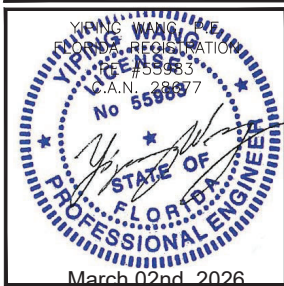


MULTIPLE SPAN ELEVATION - CURTAIN WALL

▲ - DEADLOAD+WINDLOAD ANCHOR
△ - WINDLOAD ANCHOR

S-1 SECTION 1

FLORIDA APPROVAL:
FL#28879.1



REVISIONS		
NO.	DATE	DESCRIPTION
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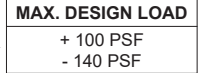
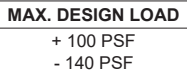
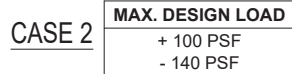
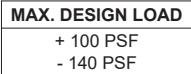
SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

TECNOGLASS, LLC.

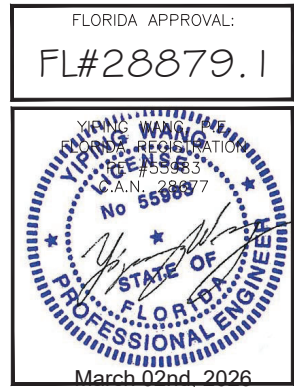
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-07	
SHEET 05 OF 38	

NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



SPLICE DETAIL TYPICAL
AS-1



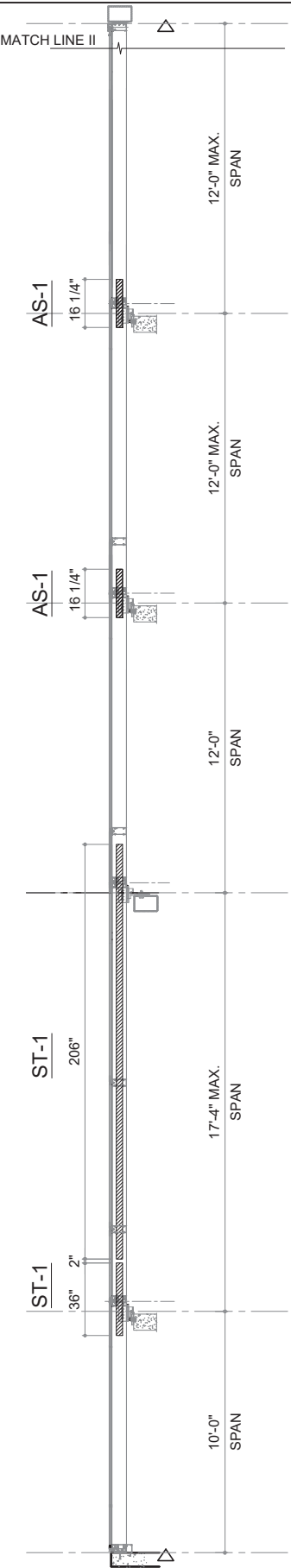
DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.

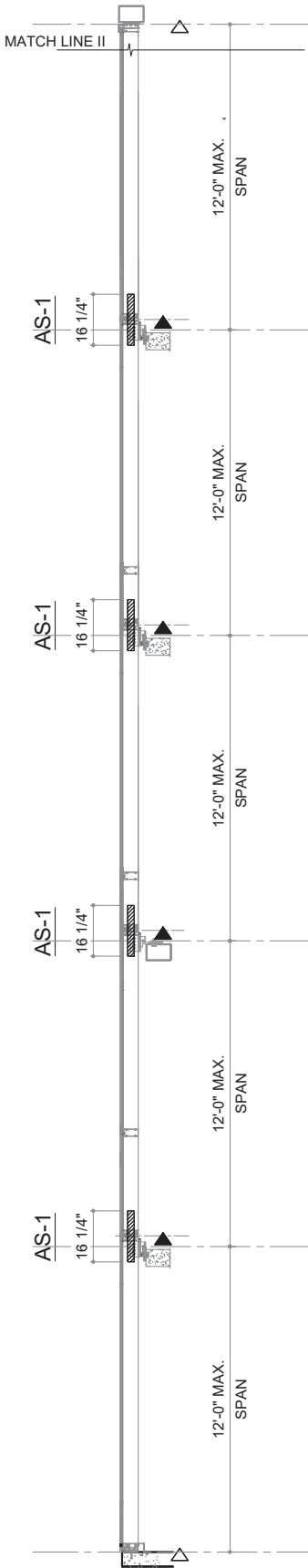
AD19-07

SHEET 06 OF 38

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

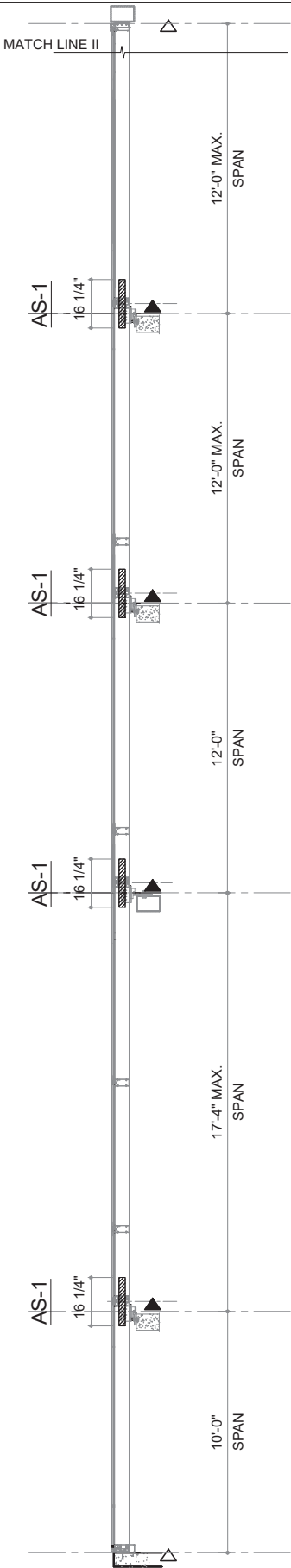


CASE 1.2
MAX. DESIGN LOAD
+ 100 PSF
- 122 PSF

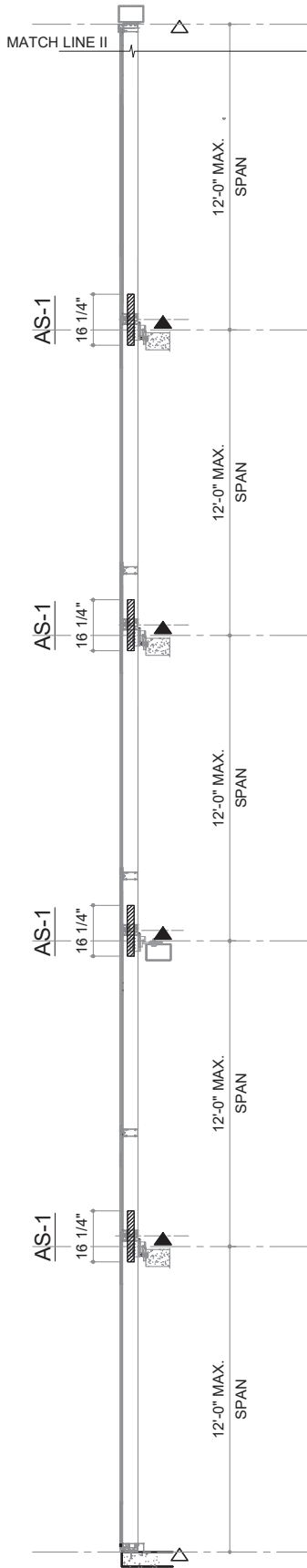


CASE 3.1
MAX. DESIGN LOAD
+ 100 PSF
- 124 PSF

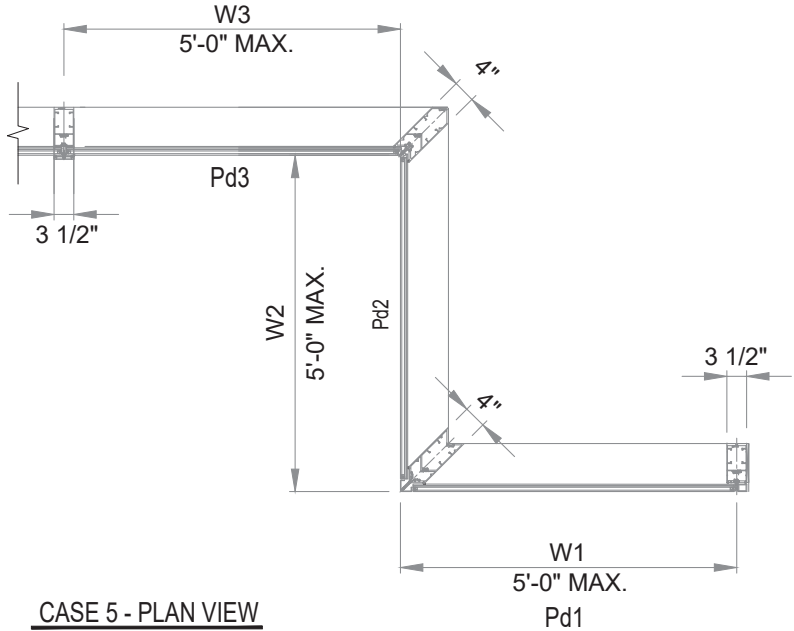
CORNER MULLION SECTION W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



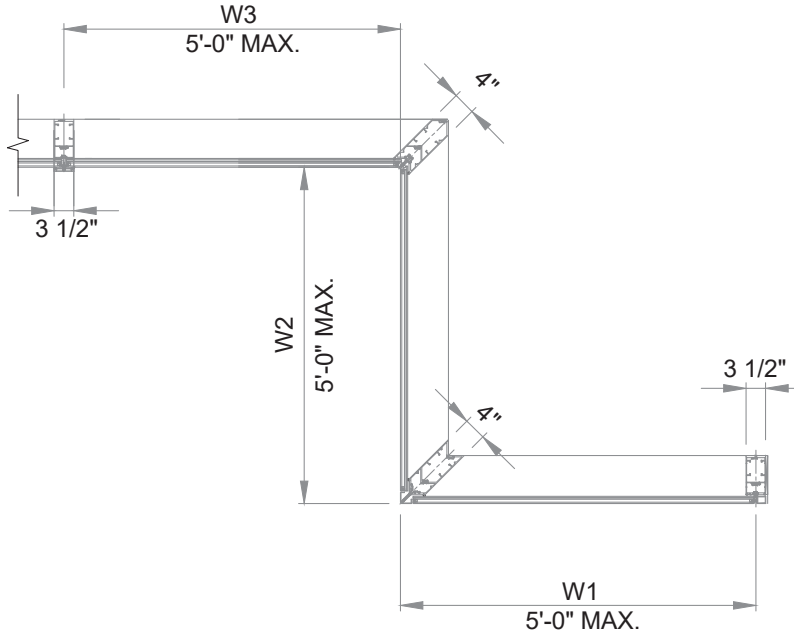
CASE 5
INSIDE / OUTSIDE
CORNER MULLION.
W1*PD1 = W2 *PD2 = W3*PD3
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



CASE 6
INSIDE / OUTSIDE
CORNER MULLION.
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

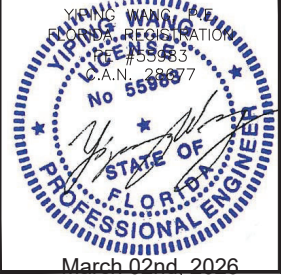


CASE 5 - PLAN VIEW
 $W1*Pd1 = W2 *Pd2 = W3*Pd3$
NOTE:
FOR $W1*Pd1 \neq W2 *Pd2 \neq W3*Pd3$
SEPARATE ENGINEERING CALCULATIONS FOR REINFORCEMENTS
ARE REQUIRED BASED ON EACH PROJECT CONDITION



CASE 6 - PLAN VIEW

FLORIDA APPROVAL:
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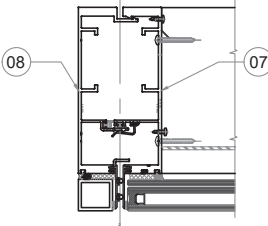
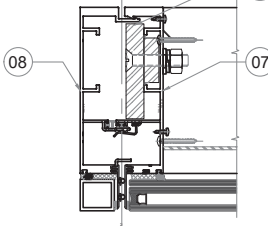
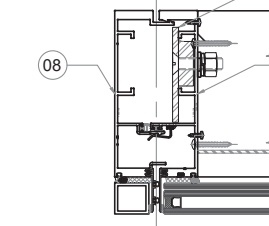
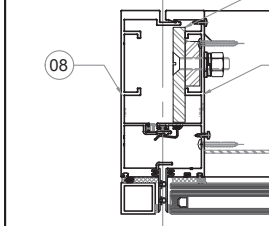
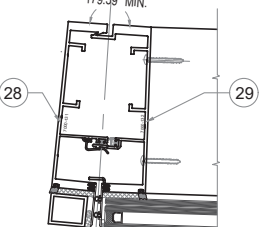
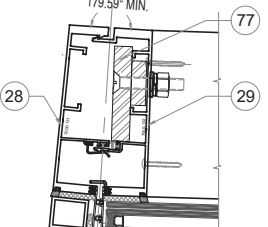
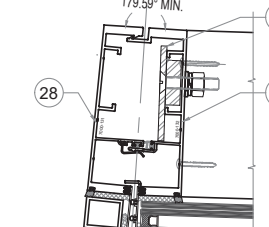
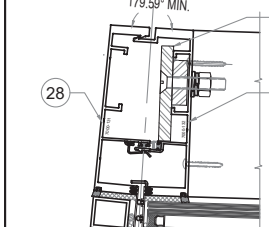
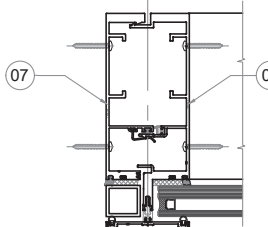
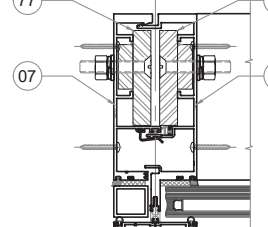
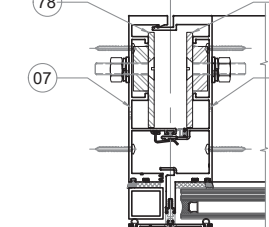
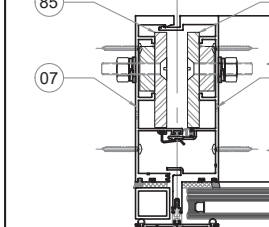
REVISIONS		
NO.	DATE	DESCRIPTION
R3	03.02.2026	REVISION

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DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-07	
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></th><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-109 + 7000-108)</td><td>33.4176</td><td>8.9666</td></tr></table>		lx in^4	Sx in^3	ALUM. (7000-109 + 7000-108)	33.4176	8.9666		<table><tr><th></th><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-109 + 7000-108)</td><td>33.4176</td><td>8.9666</td></tr><tr><td>2 * ST-1</td><td>9.2210</td><td>4.3132</td></tr><tr><td>TOTAL lx Al + lx St*(2.9)</td><td>60.1585</td><td>--</td></tr></table>		lx in^4	Sx in^3	ALUM. (7000-109 + 7000-108)	33.4176	8.9666	2 * ST-1	9.2210	4.3132	TOTAL lx Al + lx St*(2.9)	60.1585	--		<table><tr><th></th><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-109 + 7000-108)</td><td>33.4176</td><td>8.9666</td></tr><tr><td>2 * ST-2</td><td>3.7440</td><td>1.6600</td></tr><tr><td>TOTAL lx Al + lx St*(2.9)</td><td>44.2752</td><td>--</td></tr></table>		lx in^4	Sx in^3	ALUM. (7000-109 + 7000-108)	33.4176	8.9666	2 * ST-2	3.7440	1.6600	TOTAL lx Al + lx St*(2.9)	44.2752	--		<table><tr><th></th><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-109 + 7000-108)</td><td>33.4176</td><td>8.9666</td></tr><tr><td>2 * ST-4</td><td>6.5046</td><td>2.9832</td></tr><tr><td>TOTAL lx Al + lx St*(2.9)</td><td>52.2809</td><td>--</td></tr></table>		lx in^4	Sx in^3	ALUM. (7000-109 + 7000-108)	33.4176	8.9666	2 * ST-4	6.5046	2.9832	TOTAL lx Al + lx St*(2.9)	52.2809	--
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		<table><tr><th></th><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-108 + 7000-102)</td><td>40.5240</td><td>9.3870</td></tr></table>		lx in^4	Sx in^3	ALUM. (7000-108 + 7000-102)	40.5240	9.3870		<table><tr><th></th><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-102 + 7000-108)</td><td>40.5240</td><td>9.3870</td></tr><tr><td>2 * ST-1</td><td>9.2210</td><td>4.3132</td></tr><tr><td>TOTAL lx Al + lx St*(2.9)</td><td>67.2620</td><td>--</td></tr></table>		lx in^4	Sx in^3	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	2 * ST-1	9.2210	4.3132	TOTAL lx Al + lx St*(2.9)	67.2620	--		<table><tr><th></th><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-102 + 7000-108)</td><td>40.5240</td><td>9.3870</td></tr><tr><td>2 * ST-2</td><td>3.7440</td><td>1.6600</td></tr><tr><td>TOTAL lx Al + lx St*(2.9)</td><td>51.3816</td><td>--</td></tr></table>		lx in^4	Sx in^3	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	2 * ST-2	3.7440	1.6600	TOTAL lx Al + lx St*(2.9)	51.3816	--		<table><tr><th></th><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-102 + 7000-108)</td><td>40.5240</td><td>9.3870</td></tr><tr><td>2 * ST-4</td><td>6.5046</td><td>2.9832</td></tr><tr><td>TOTAL lx Al + lx St*(2.9)</td><td>59.3873</td><td>--</td></tr></table>		lx in^4	Sx in^3	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	2 * ST-4	6.5046	2.9832	TOTAL lx Al + lx St*(2.9)	59.3873	--
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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		--
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	
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	

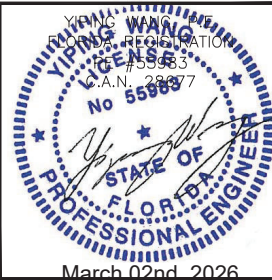
STRUCTURAL GLAZED CORNER MULLIONS

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.																						
		<table><tr><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-120 + 7000-122)</td><td>98.2386 16.7443</td></tr></table>	lx in^4	Sx in^3	ALUM. (7000-120 + 7000-122)	98.2386 16.7443			<table><tr><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-124 + 7000-125)</td><td>90.4431 14.0658</td></tr></table>	lx in^4	Sx in^3	ALUM. (7000-124 + 7000-125)	90.4431 14.0658			<table><tr><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-120 + 7000-122) X-Direction</td><td>49.8888 10.3160</td></tr><tr><td>ALUM. (7000-120 + 7000-122) Y-Direction</td><td>50.8132 10.363</td></tr></table>	lx in^4	Sx in^3	ALUM. (7000-120 + 7000-122) X-Direction	49.8888 10.3160	ALUM. (7000-120 + 7000-122) Y-Direction	50.8132 10.363			<table><tr><th>lx in^4</th><th>Sx in^3</th></tr><tr><td>ALUM. (7000-124 + 7000-125) X-Direction</td><td>47.9395 9.2154</td></tr><tr><td>ALUM. (7000-124 + 7000-125) Y-Direction</td><td>45.1515 8.205</td></tr></table>	lx in^4	Sx in^3	ALUM. (7000-124 + 7000-125) X-Direction	47.9395 9.2154	ALUM. (7000-124 + 7000-125) Y-Direction	45.1515 8.205
lx in^4	Sx in^3																														
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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#28879.1



REVISIONS

NO.	DATE	DESCRIPTION	REVISION
R3	03.02.2026		

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MCY ENGINEERING, INC.
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SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

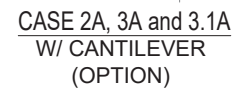
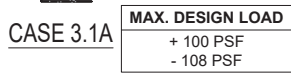
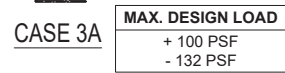
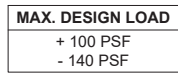
TECNOGLASS, LLC.
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

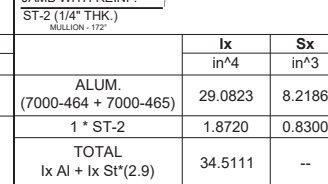
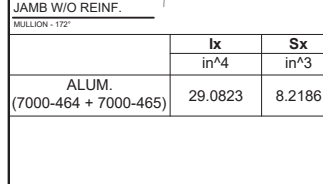
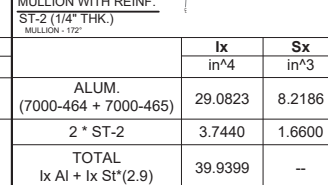
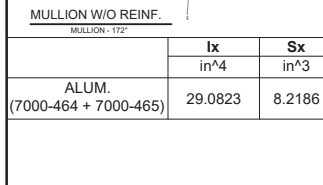
DRAWING NO.
AD19-07

SHEET 08 OF 38

NOTE: REFER TO SHEET 8A FOR MULLION SECTIONS & PROPERTIES



172° MIN. 87 172° M

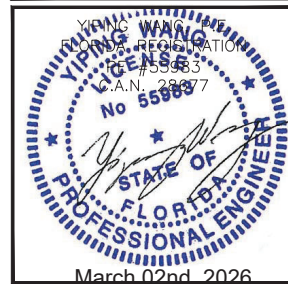


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TECNOGLASS, LLC.

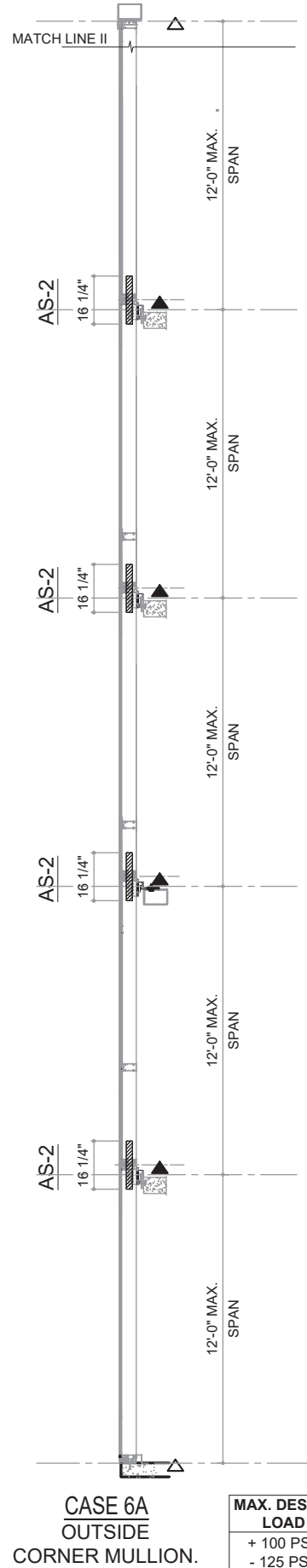
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

FLORIDA APPROVAL:
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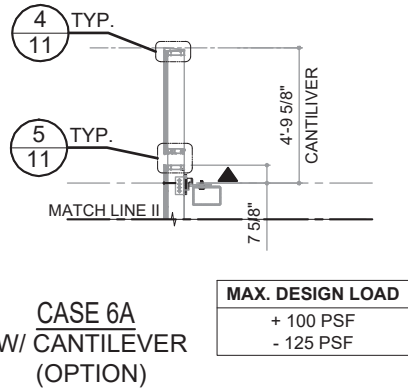


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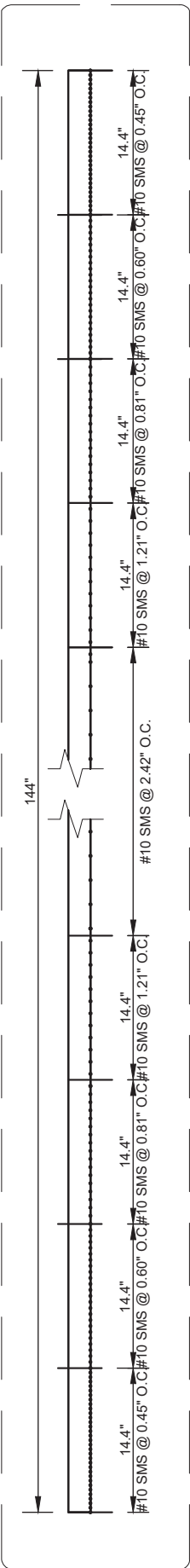
SHEET 8A OF 38



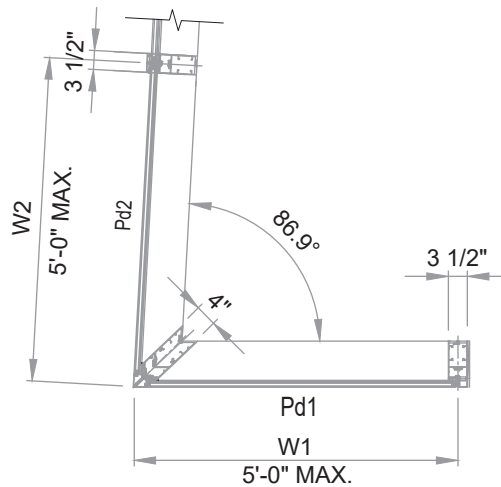
TYP. CORNER SECTIONS W/O REINFORCEMENT
NOTE: REFER TO SHEET 8B FOR MULLION SECTIONS & PROPERTIES



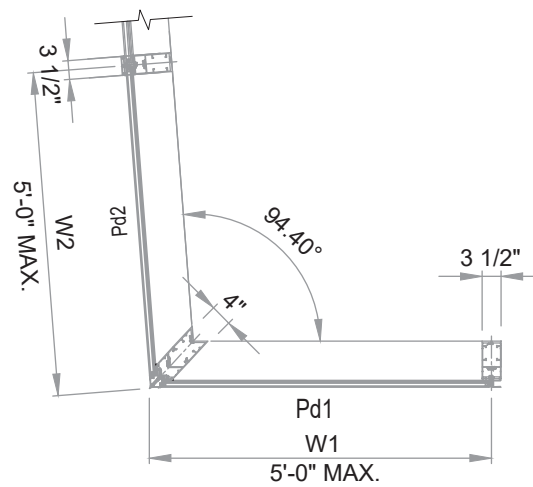
101 #10 x 1/2" LG. PH SMS SCREW LAYOUT (TYPICAL)



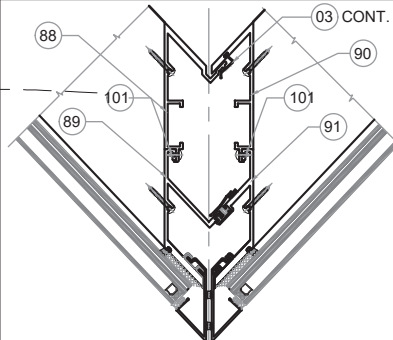
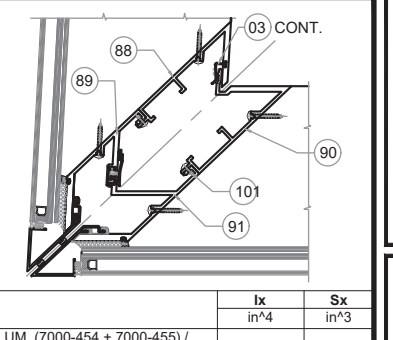
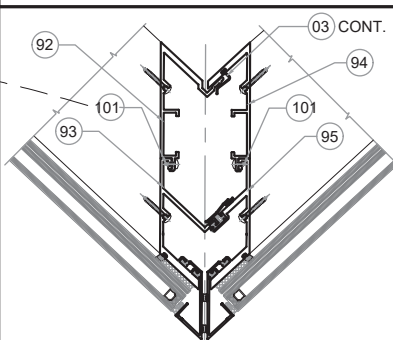
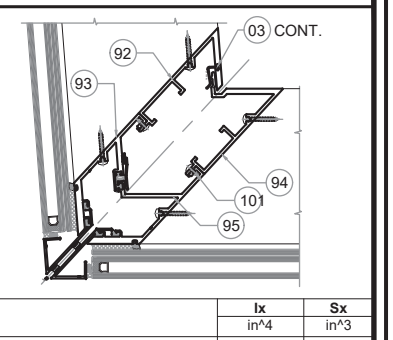
END OF MULLION



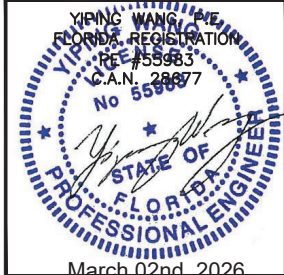
CASE 6A - PLAN VIEW



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				
	ALUM. (7000-454 + 7000-455) / (7000-452 + 7000-453)		ALUM. (7000-454 + 7000-455) / (7000-452 + 7000-453) X-Direction	
	Ix in^4		Sx in^3	
	106.5111		11.2743	
STRUCTURAL GLAZED CORNER MULLIONS				
	ALUM. (7000-458 + 7000-459) / (7000-460 + 7000-461)		ALUM. (7000-458 + 7000-459) / (7000-460 + 7000-461) X-Direction	
	Ix in^4		Sx in^3	
	88.0451		10.7425	

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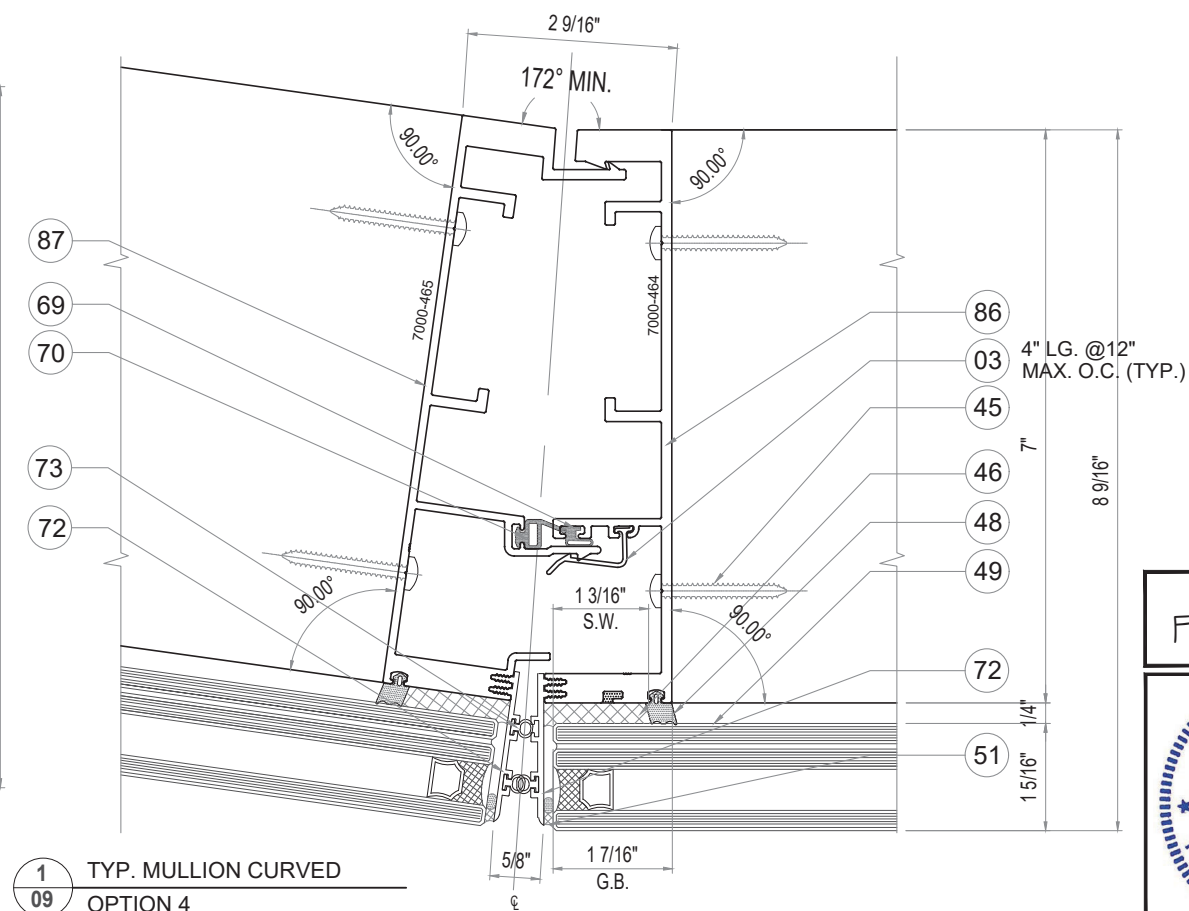
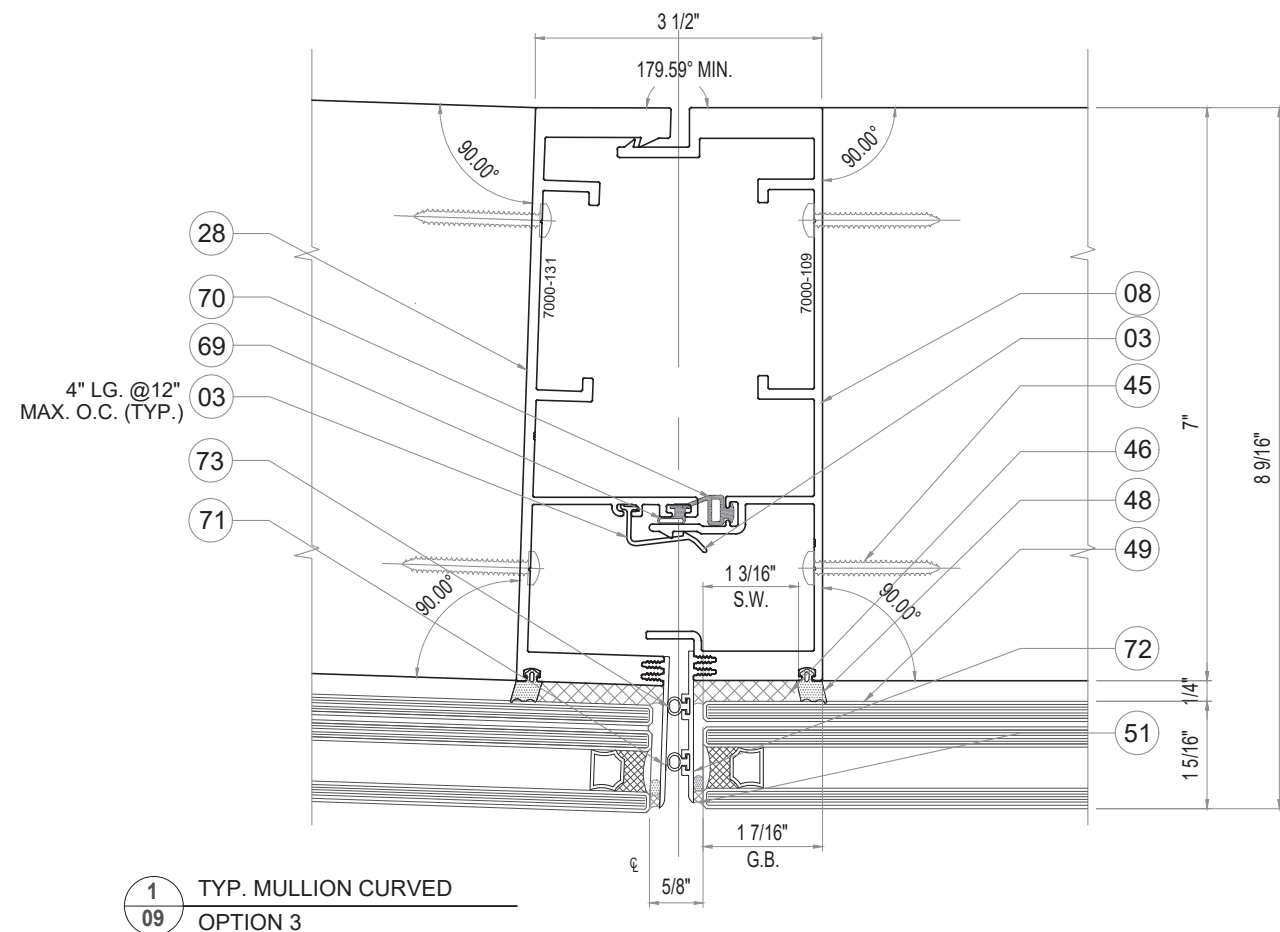
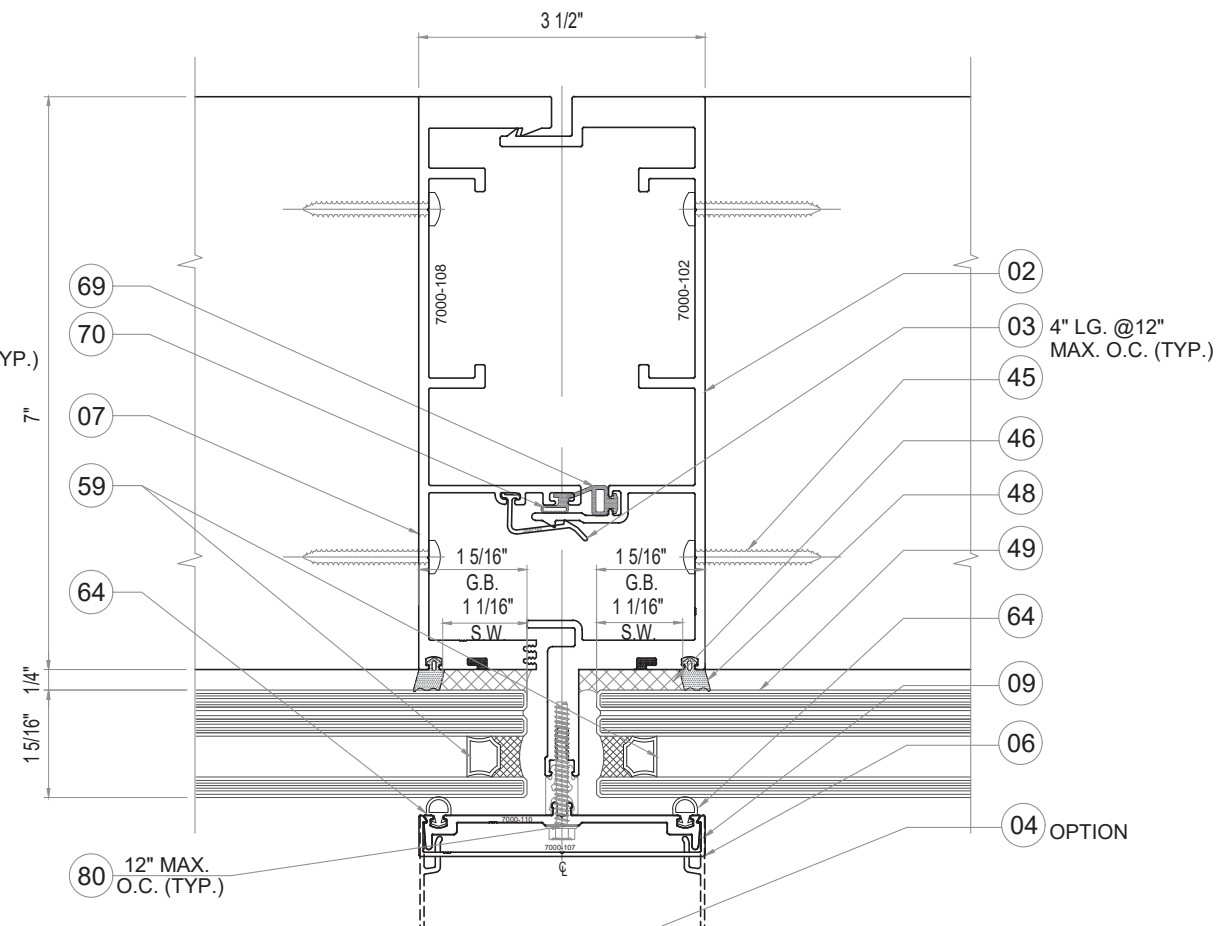
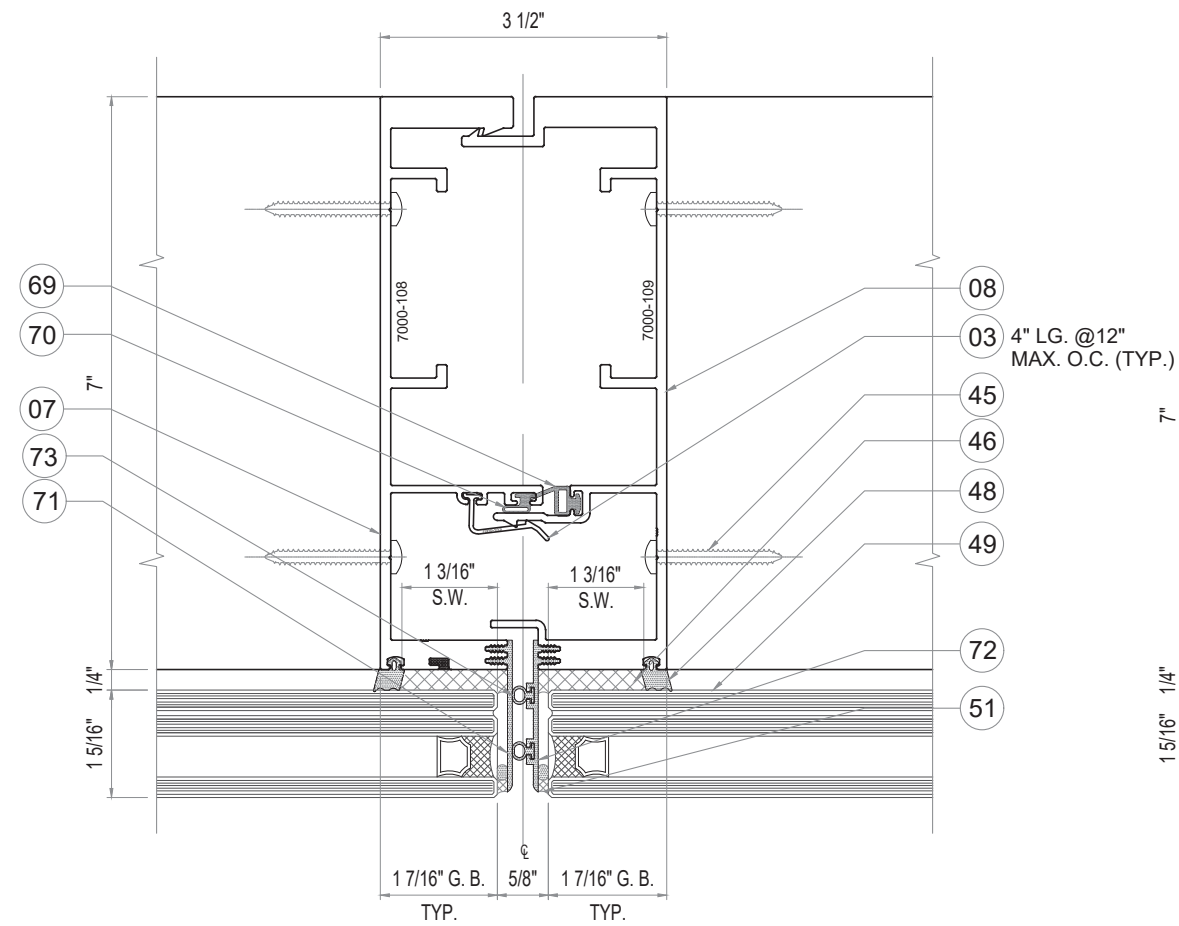
12781 MIRAMAR PARKWAY #301 P: 305.588.5224
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www.MCYEngineering.com MCY@mcyengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

TECNOGLASS, LLC.

5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-07	
SHEET 8B OF 38	



REVISIONS		
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TECNOGLASS, LLC.

5220 NW 72ND AVENUE, DAI NO. 4 MIAMI, FL 33186
Phone (305) 342-0890 Fax (786) 513-3965

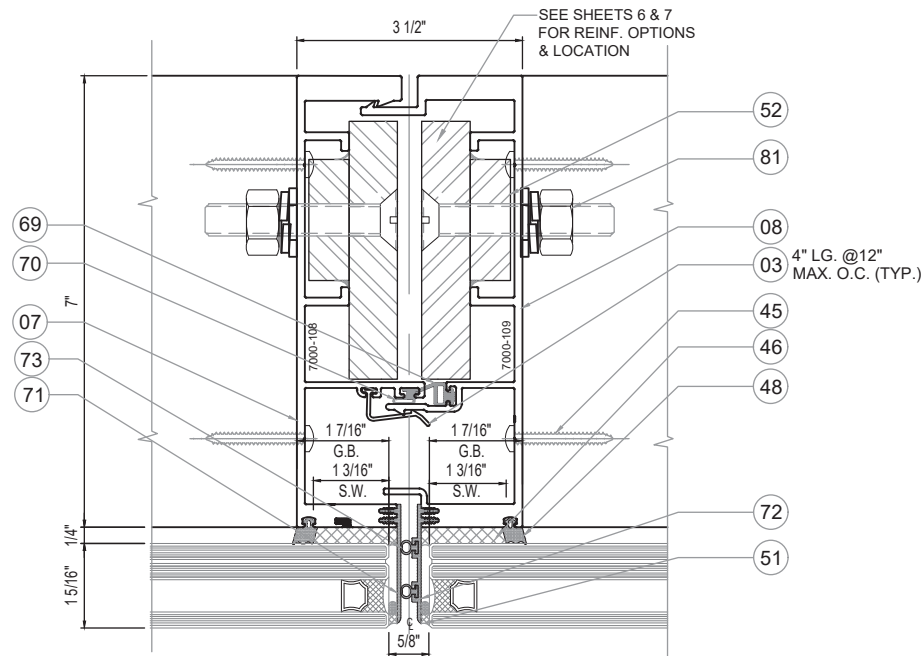
DATE	03.02.2026
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PROJECT	MCY19-010

DRAWING NO.
AD19-07

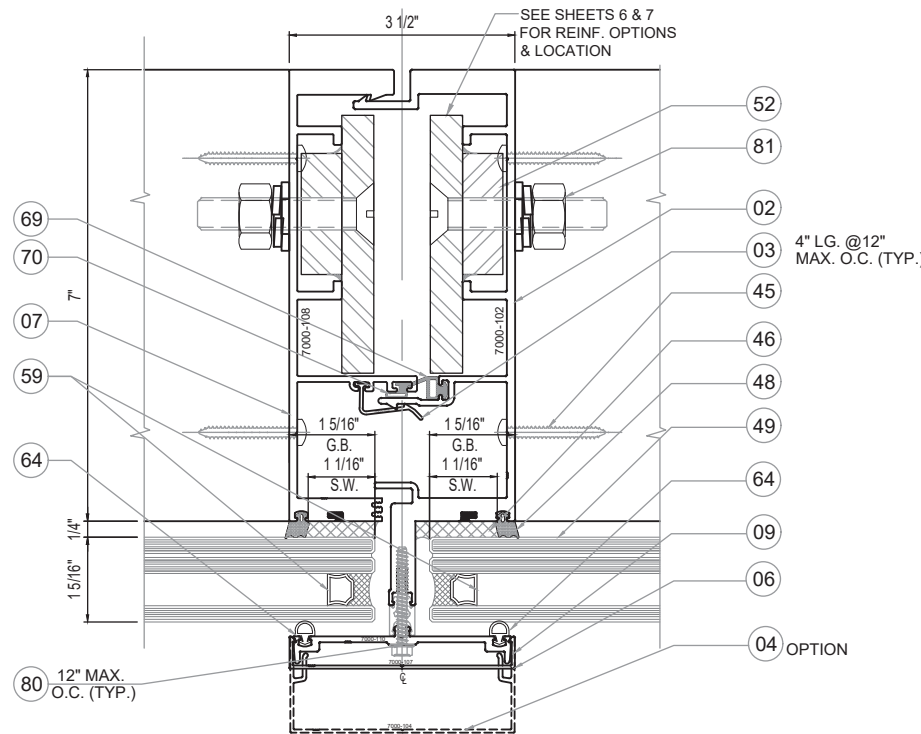
SHEET 09 OF 38

FLORIDA APPROVAL:
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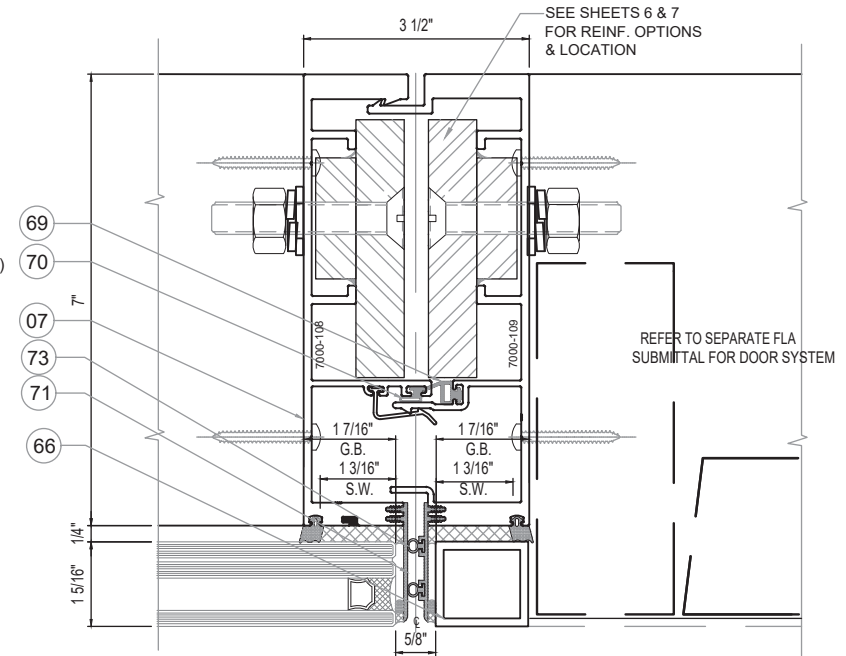




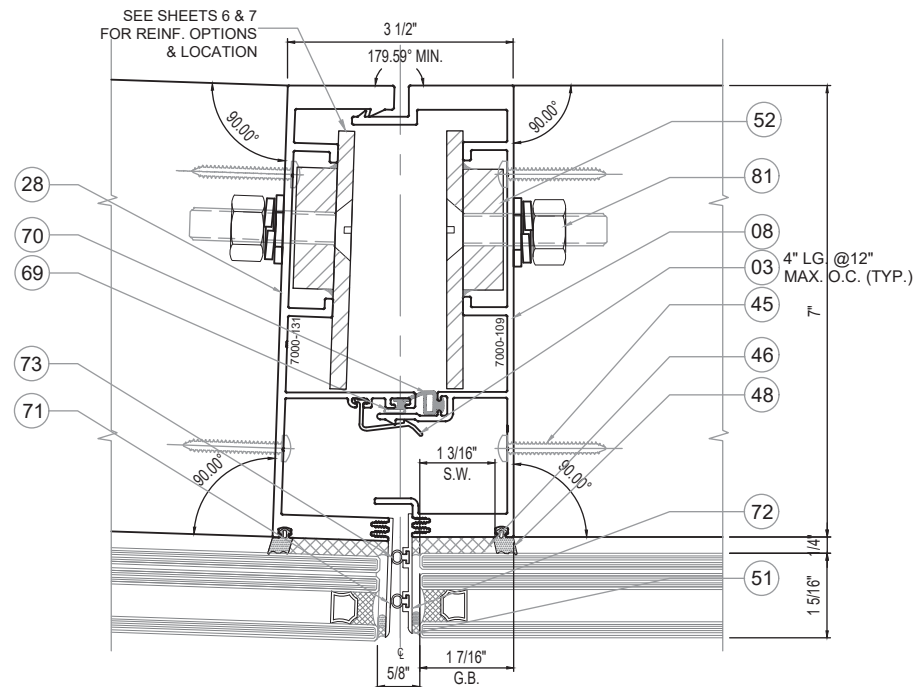
2 TYP. MULLION BUTT GLAZED W/ REINF.
10 OPTION 1



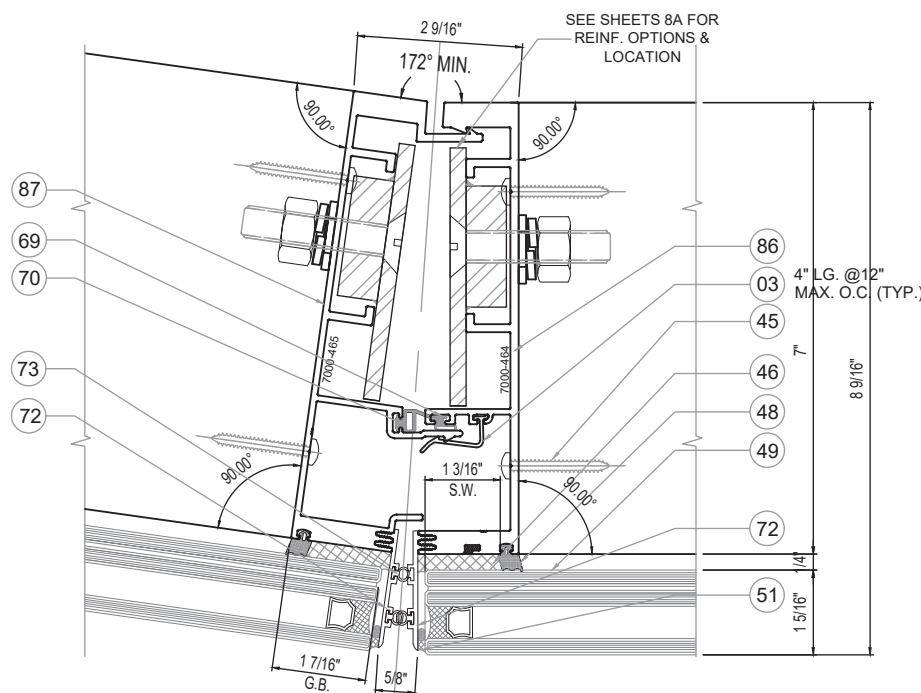
2 TYP. MULLION CAPTURED W/ REINF.
10 OPTION 2



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



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

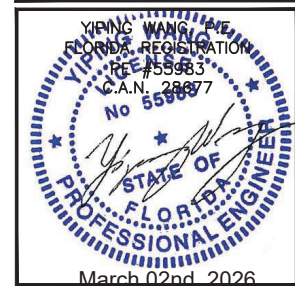


2 TYP. MULLION CURVED W/ REINF.
10 OPTION 4

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:
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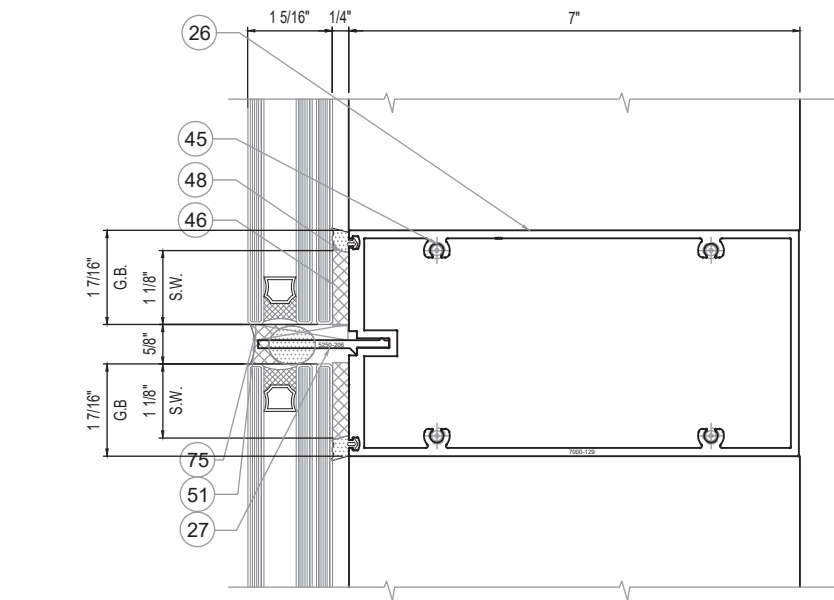


REVISE	NO.	DATE	DESCRIPTION
	R3	03.02.2026	REVISION

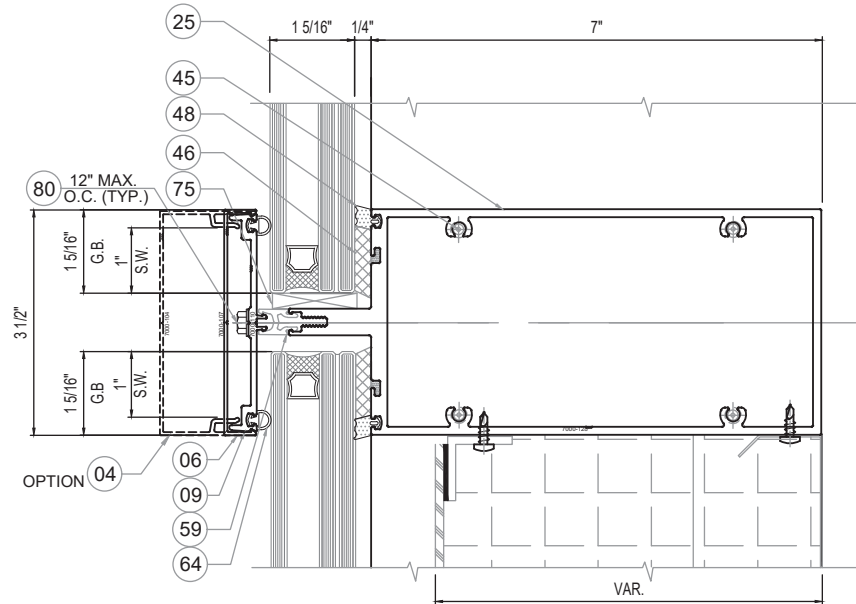
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MCY ENGINEERING, INC.
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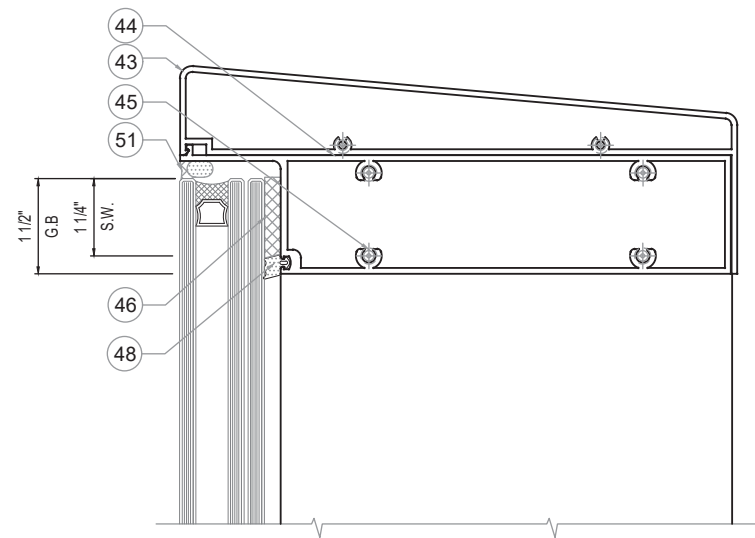
DATE	03.02.2026
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DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07
SHEET	10 OF 38



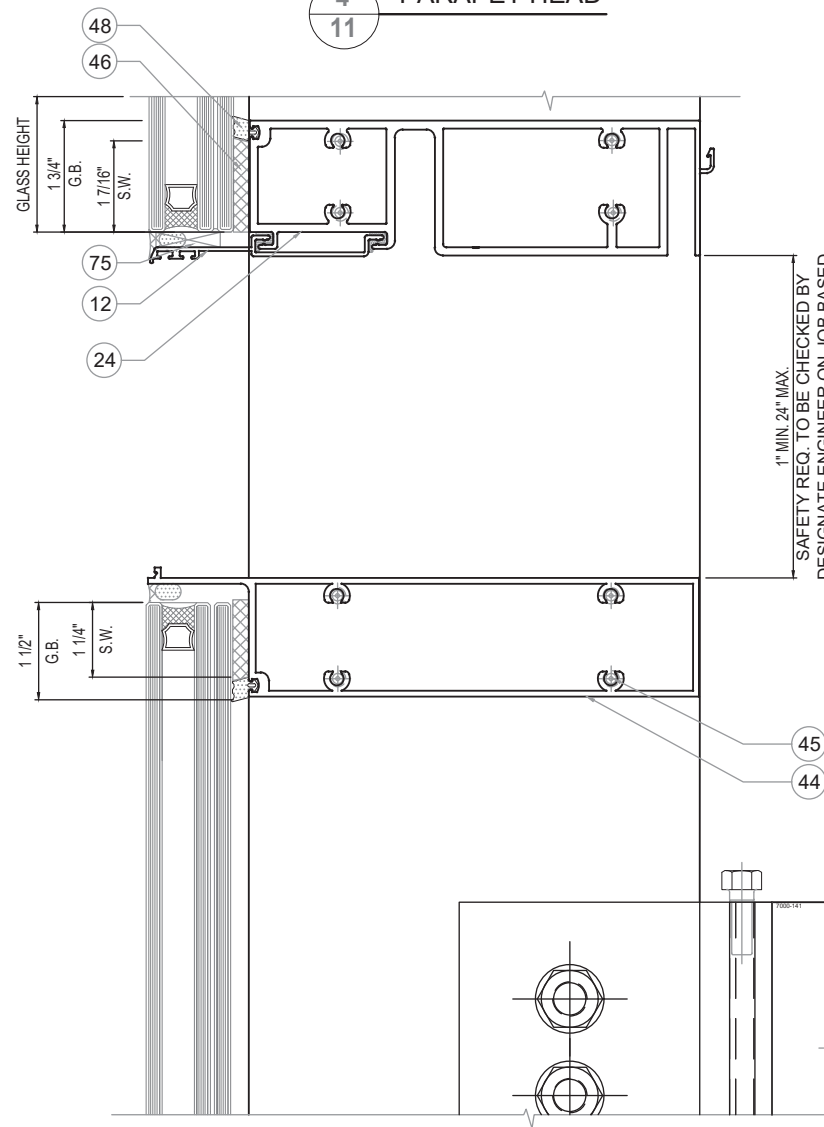
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11 HORIZONTAL BUTT GLAZED
OPTION 1



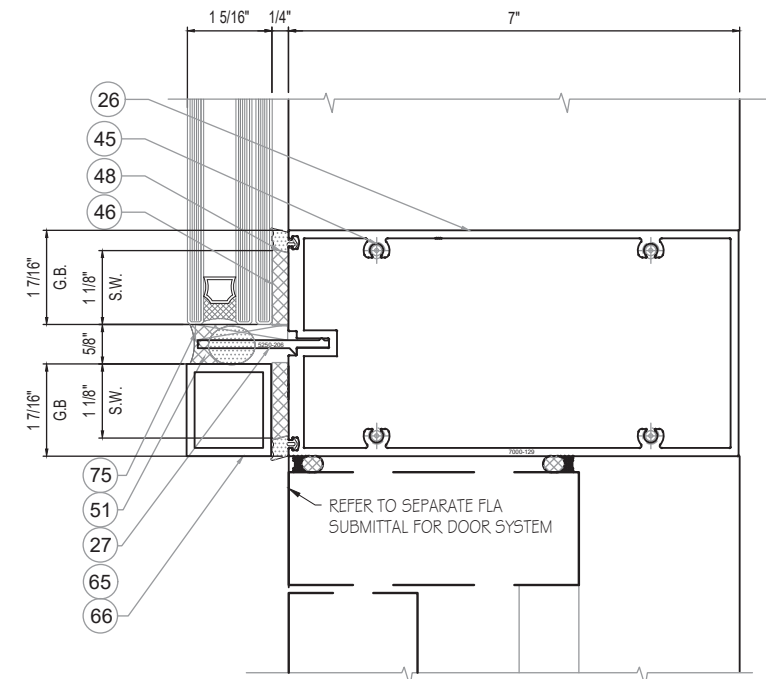
3
11 HORIZONTAL CAPTURED
OPTION 2



4
11 PARAPET HEAD

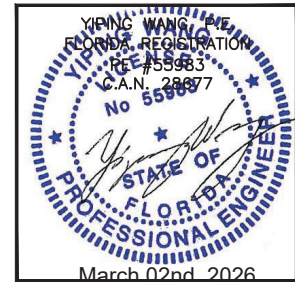


5
11 CANTILEVER HORIZONTAL
WATERPROOFING BY OTHERS
NOT COVERED BY THIS APPROVAL



3A
11 HORIZONTAL BUTT GLAZED

FLORIDA APPROVAL:
FL#28879.1

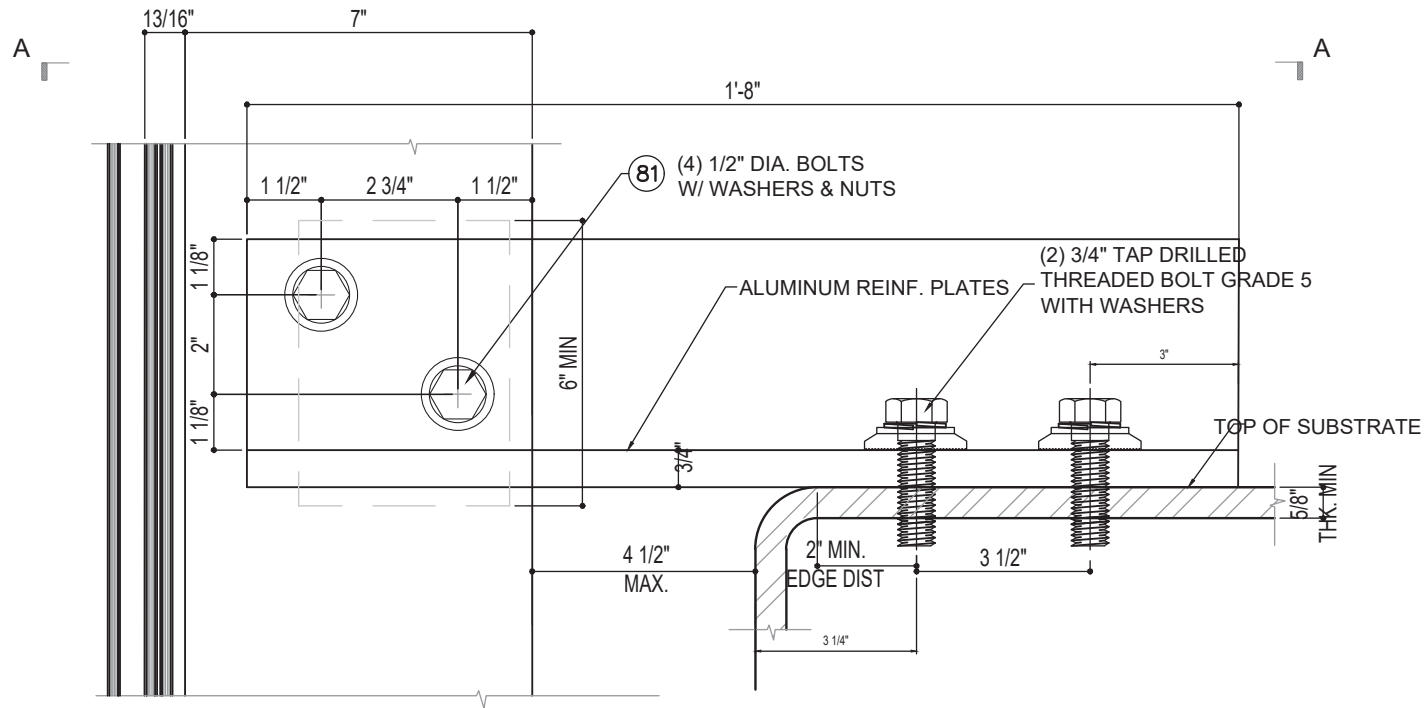


REVISIONS		
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MCY
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GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 305.588.5224
MIRAMAR FL33027
www.MCYEngineering.com MCY@mcycengineering.com

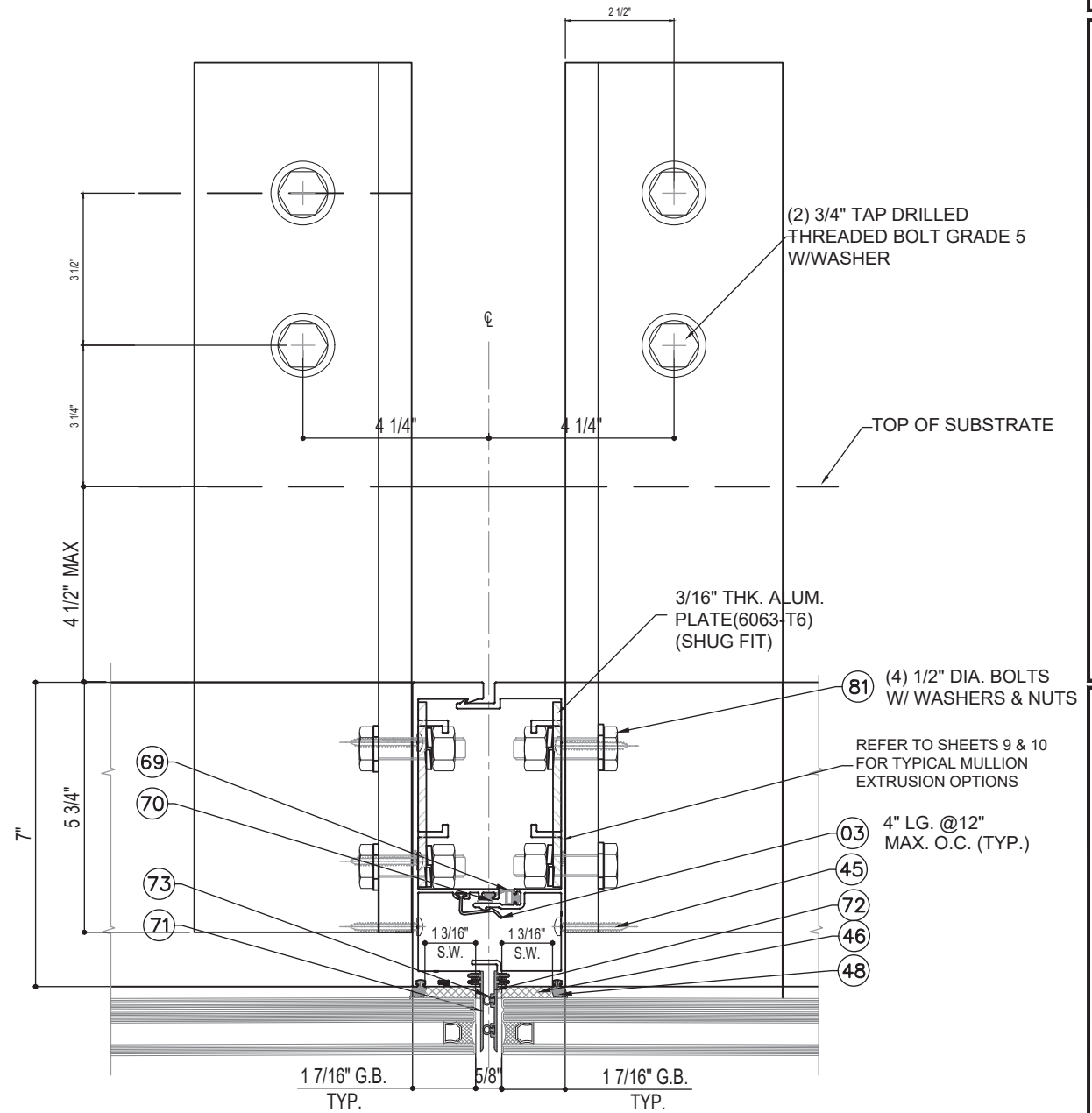
SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI
TECNOGLASS, LLC.
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07
SHEET	11 OF 38



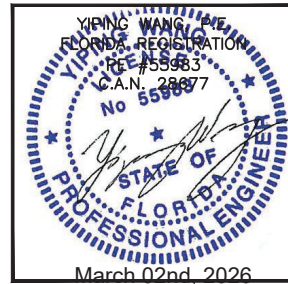
13 ANCHOR DETAIL
11A SECTION

FOR ANCHOR INTO CONCRETE SLAB TO BE CHECKED BY DESIGNATED ENGINEERING ON JOB BASES.



A-A SECCION

FLORIDA APPROVAL:
FL#28879.1



REVISIONS		
NO.	DATE	DESCRIPTION
R3	03.02.2026	REVISION

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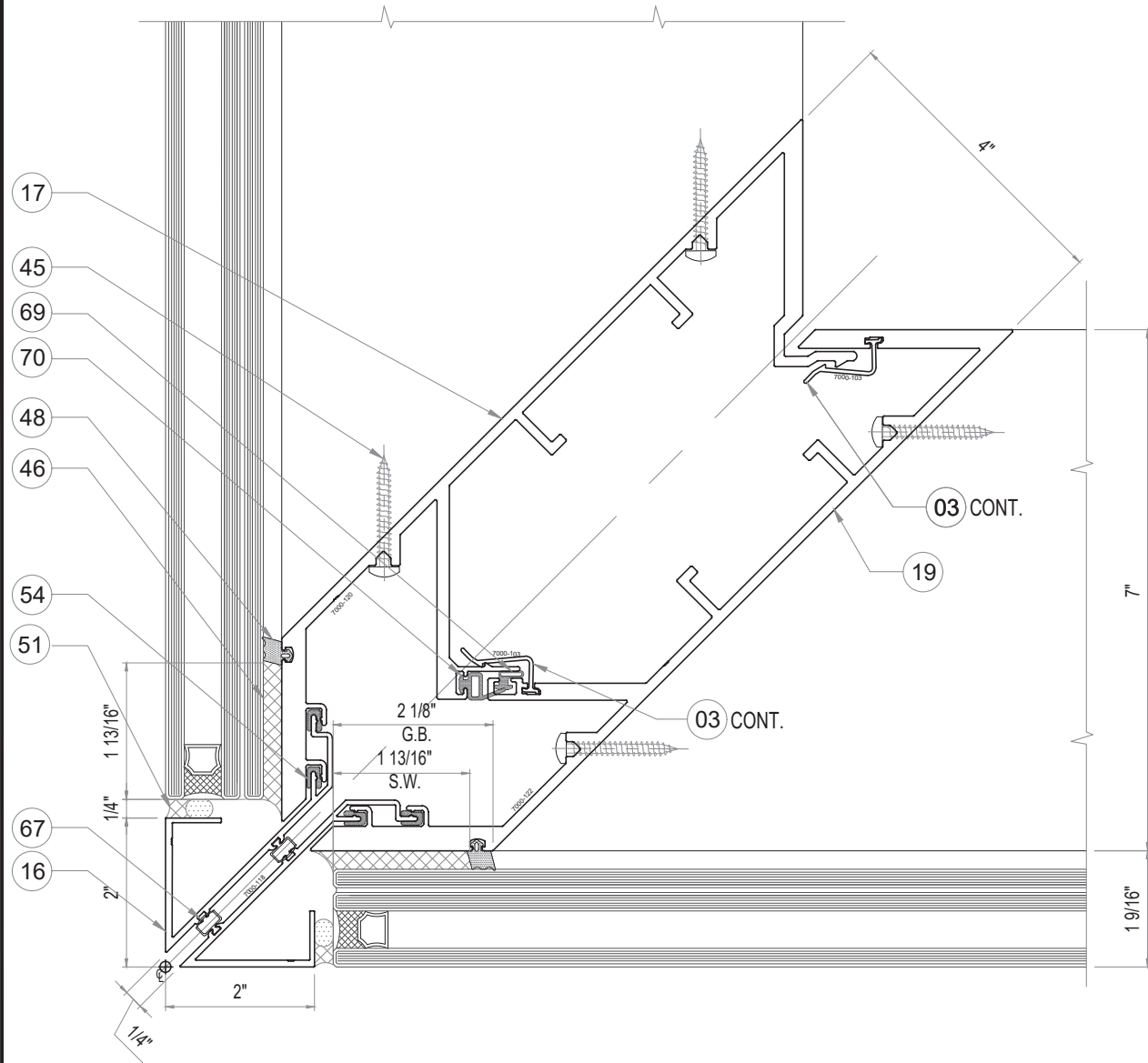
12781 MIRAMAR PARKWAY #301 P: 305.588.5224
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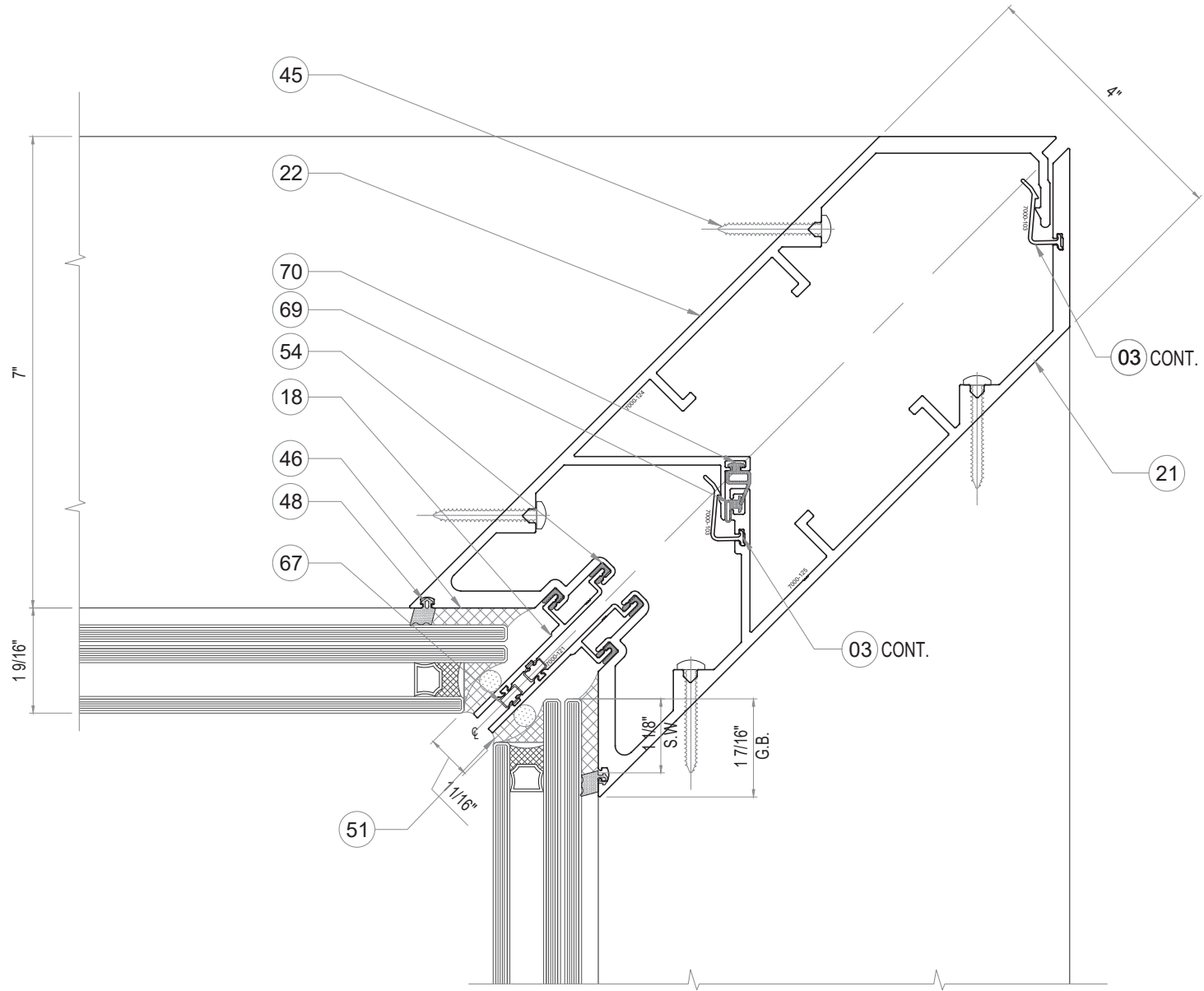
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SHEET 11A OF 38	



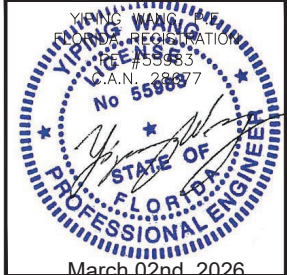
6
12 OUTSIDE CORNER MULLION



6A
12 INSIDE CORNER MULLION

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

FLORIDA APPROVAL:
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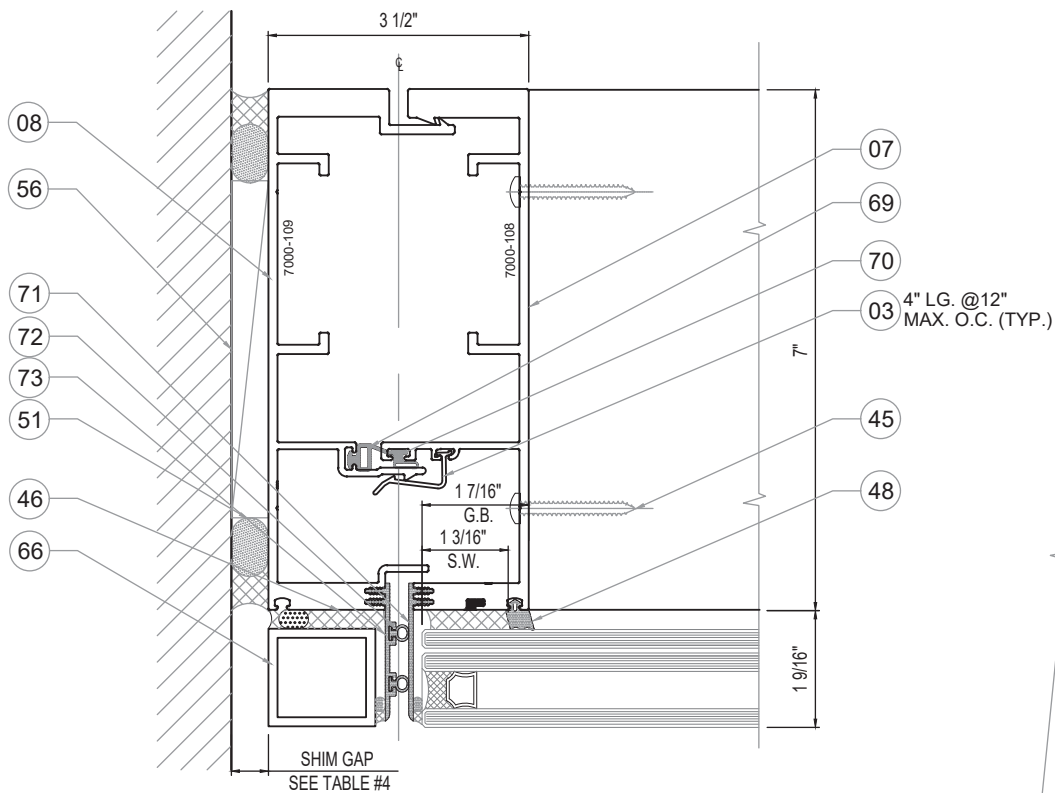
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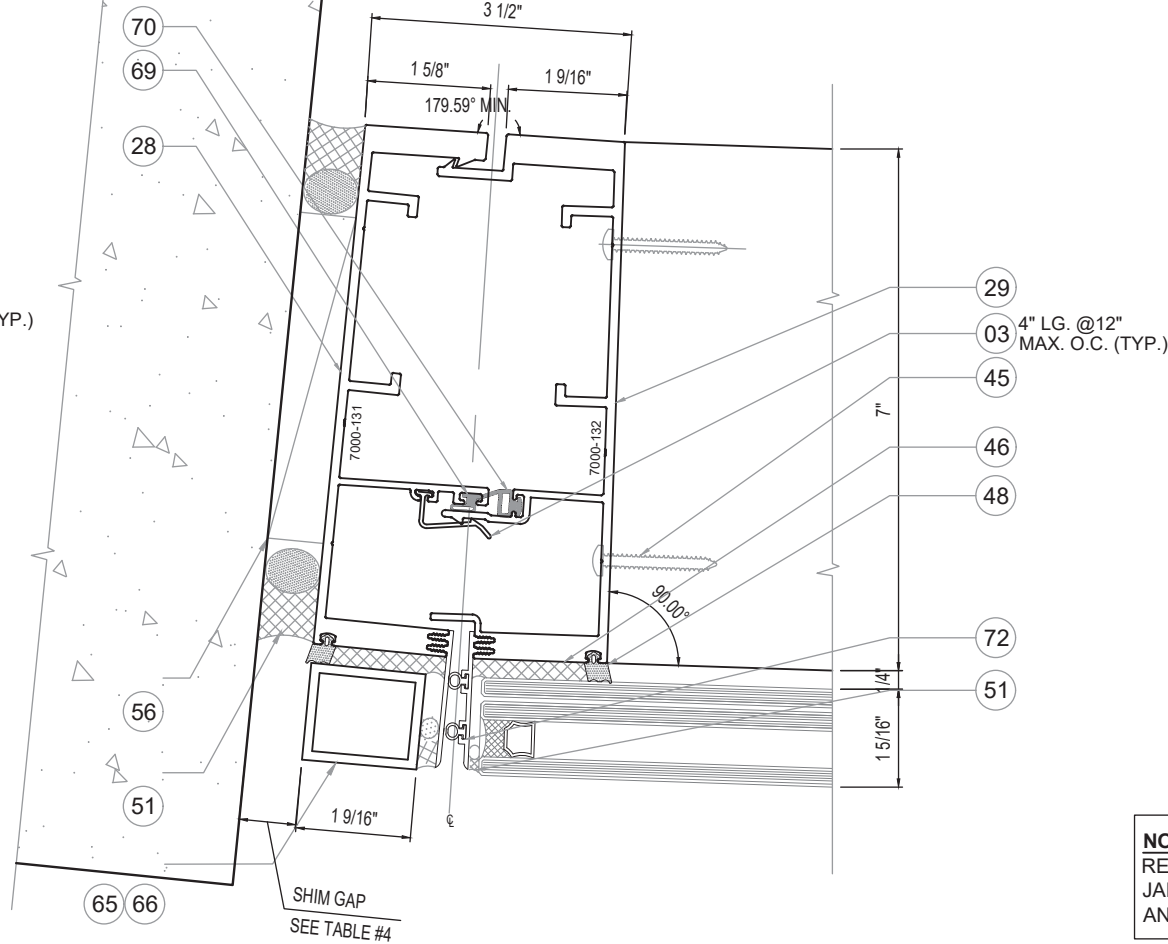
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SHEET 12 OF 38	



7 TYP. JAMB BUTT GLAZED
13 OPTION 1



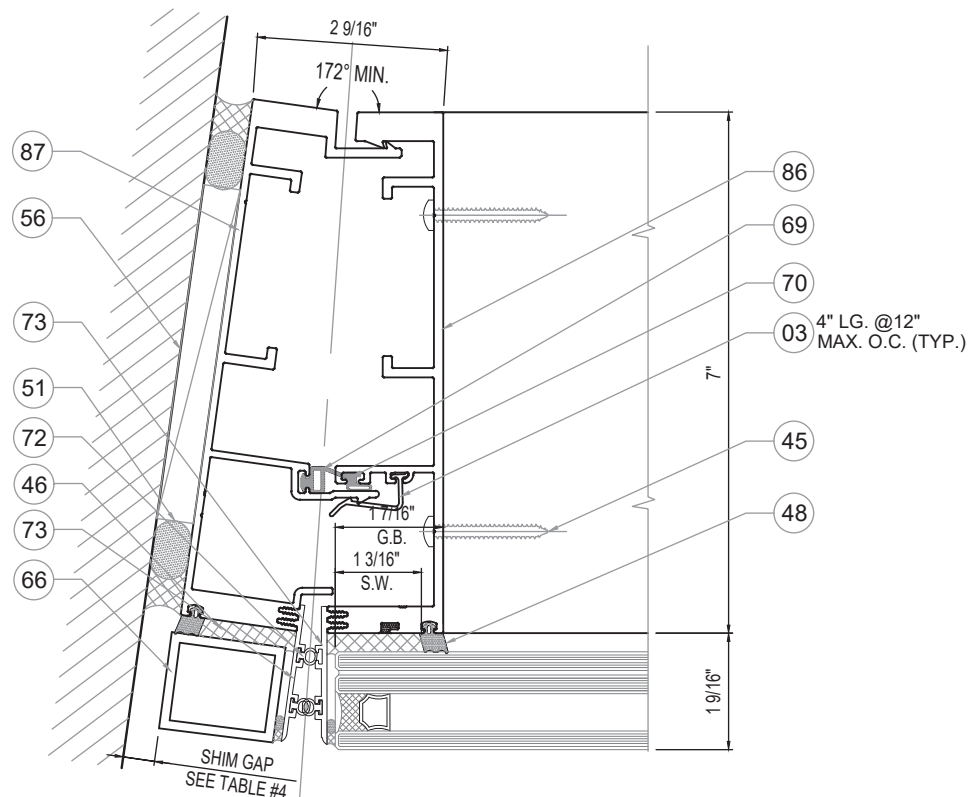
7 TYP. JAMB CURVED
13 OPTION 2

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

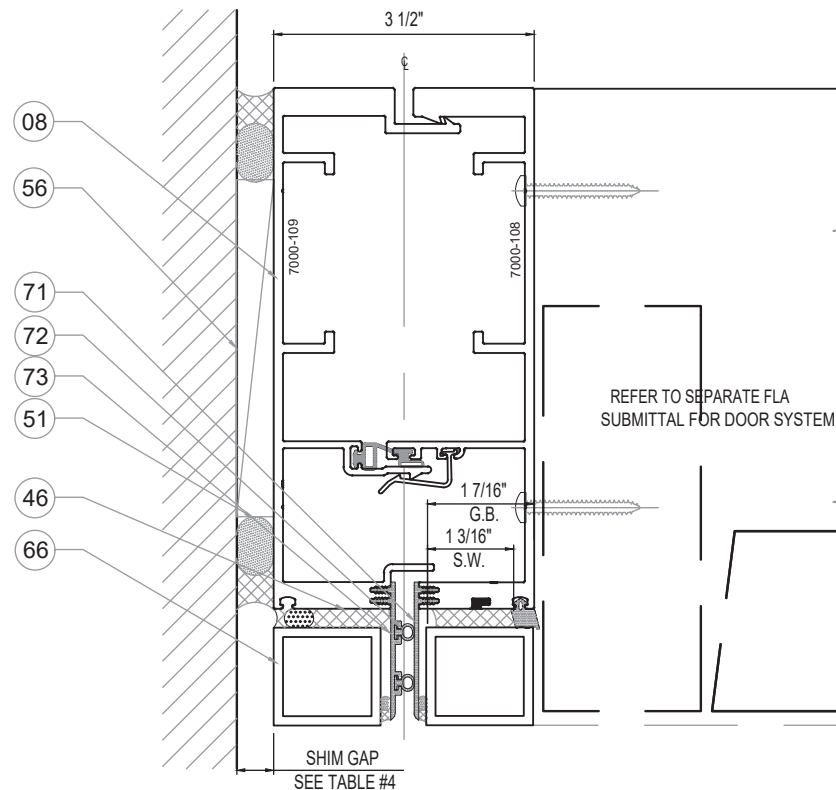
TABLE #4: MIN/MAX SHIM GAP

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"

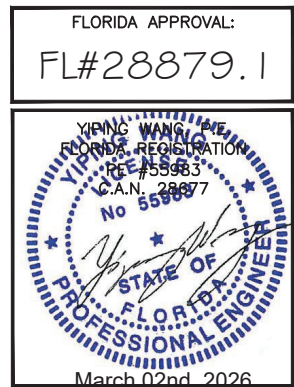
*JAMB SPAN: - ANCHOR ℓ TO ℓ



7 TYP. JAMB BUTT GLAZED
13 OPTION 3



7A TYP. DOOR JAMB
13 FOR SINGLE SPAN.



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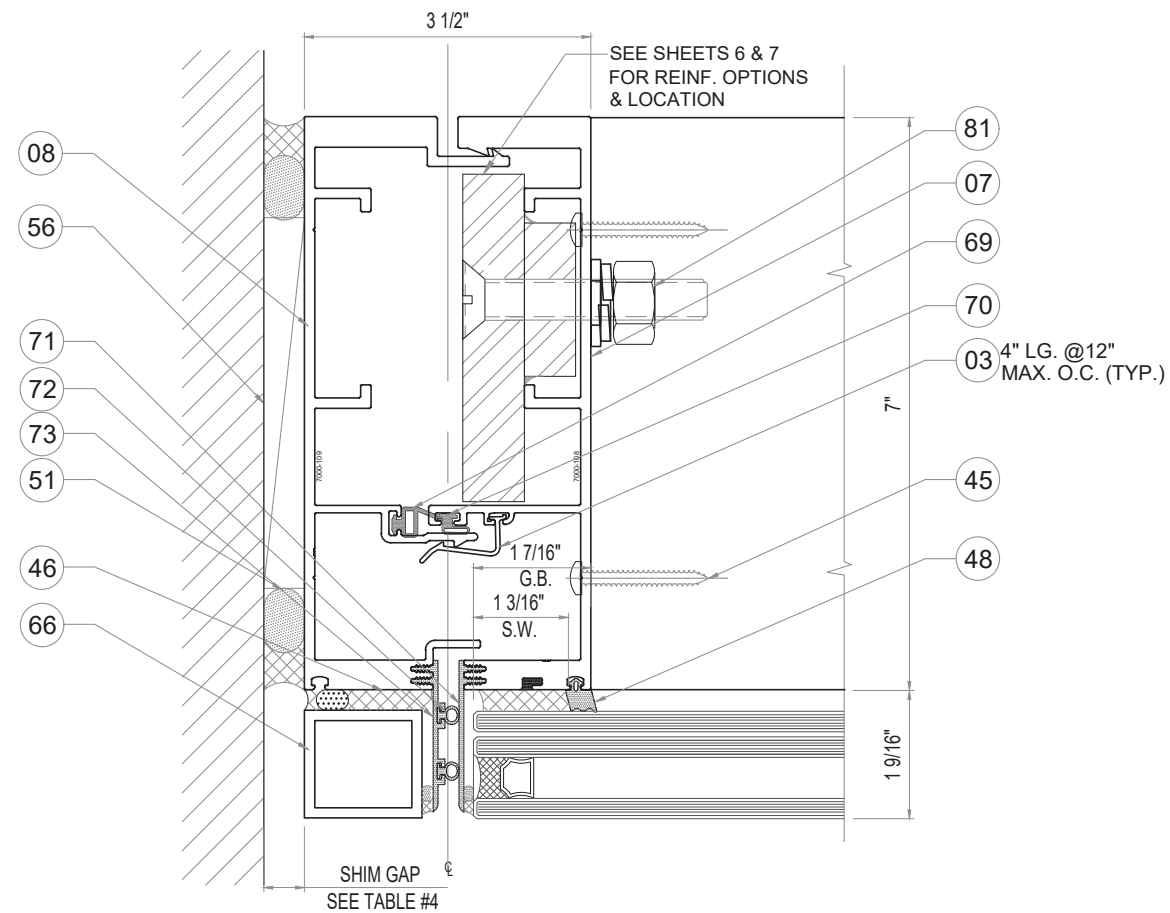
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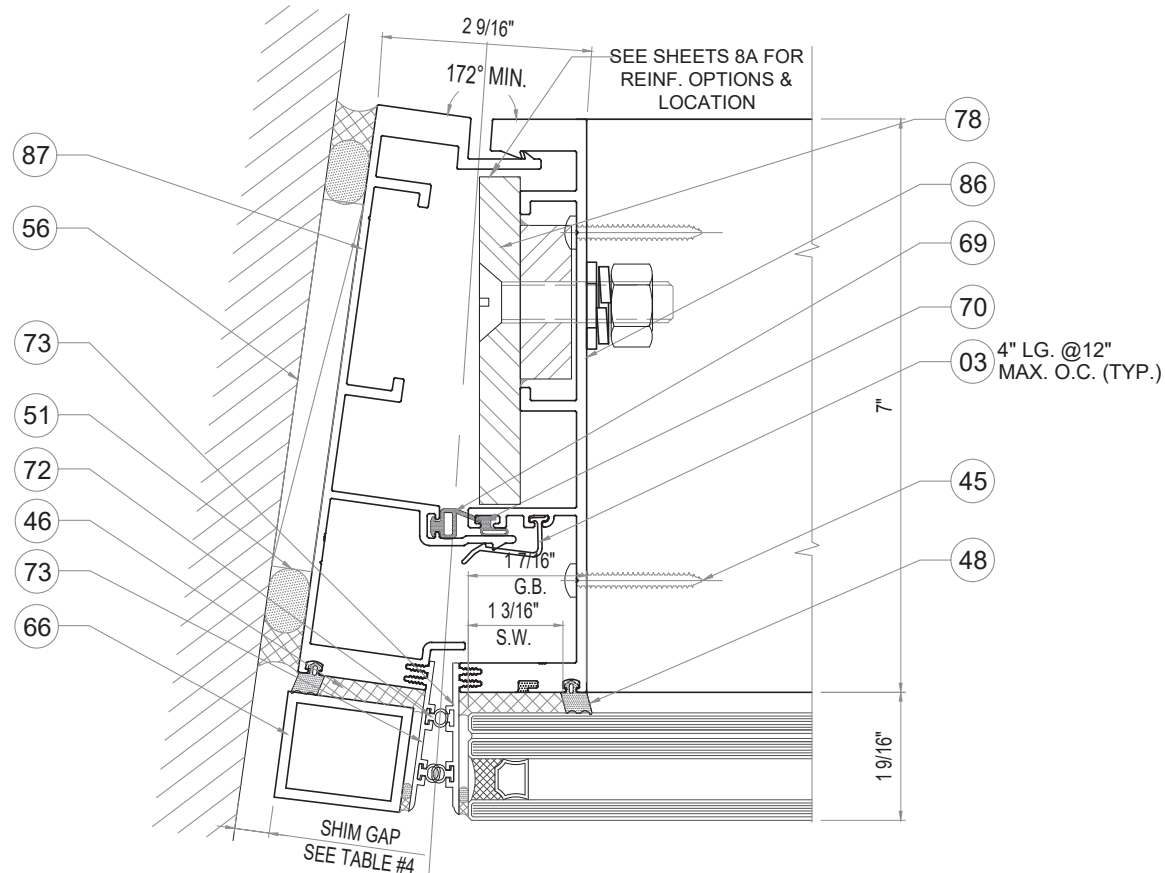
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PROJECT	MCY19-010

DRAWING NO.
AD19-07

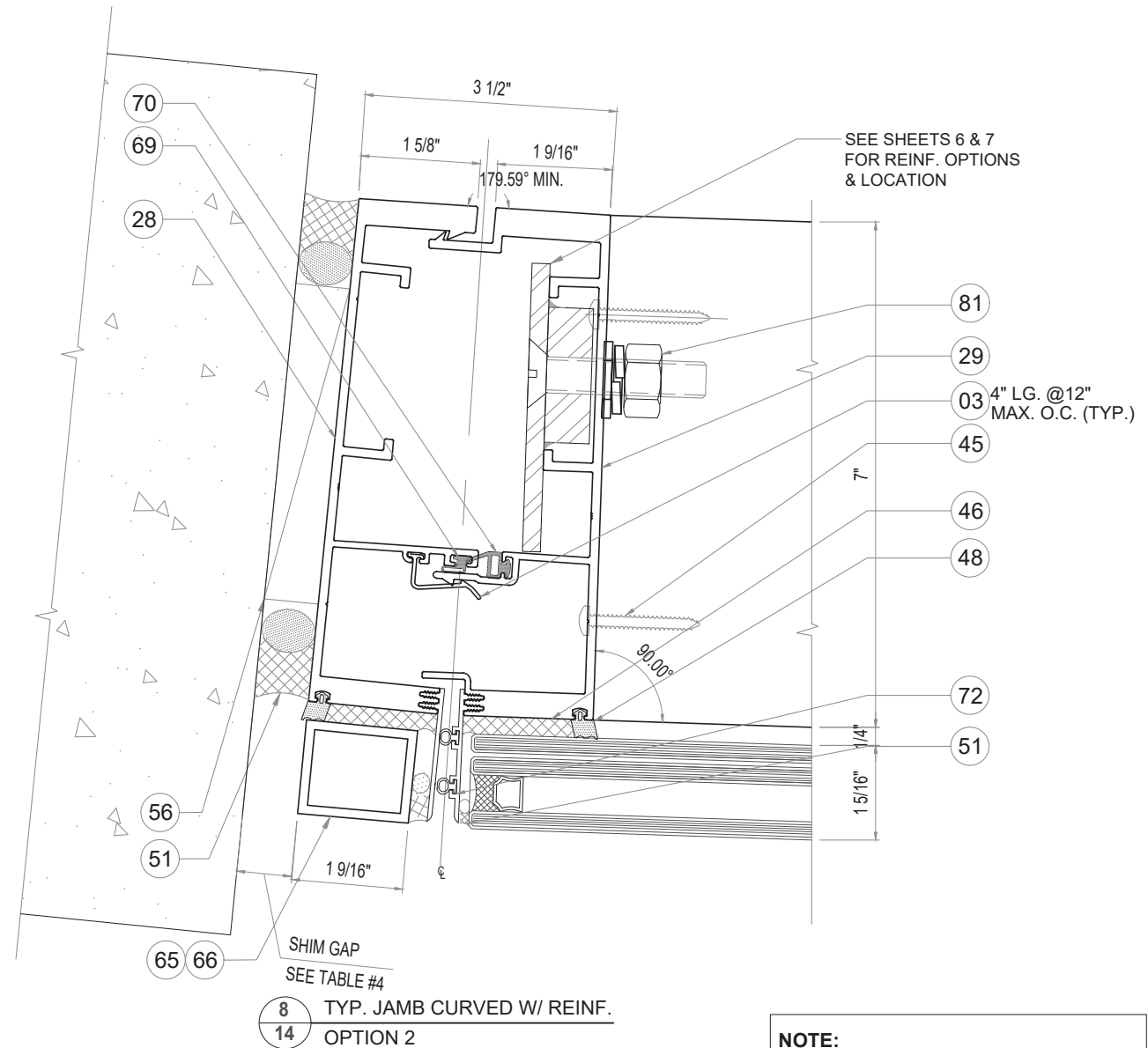
SHEET 13 OF 38



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

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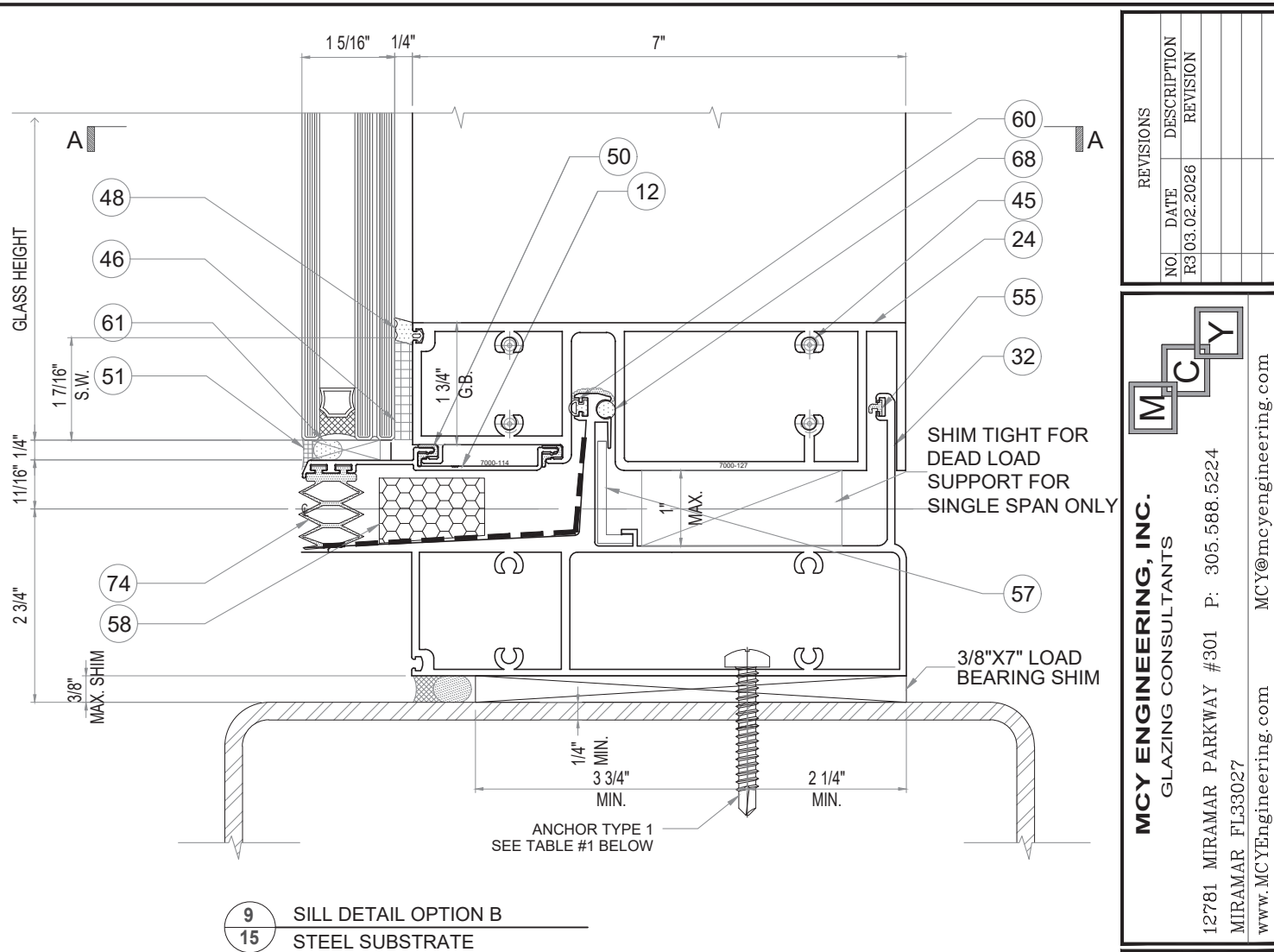
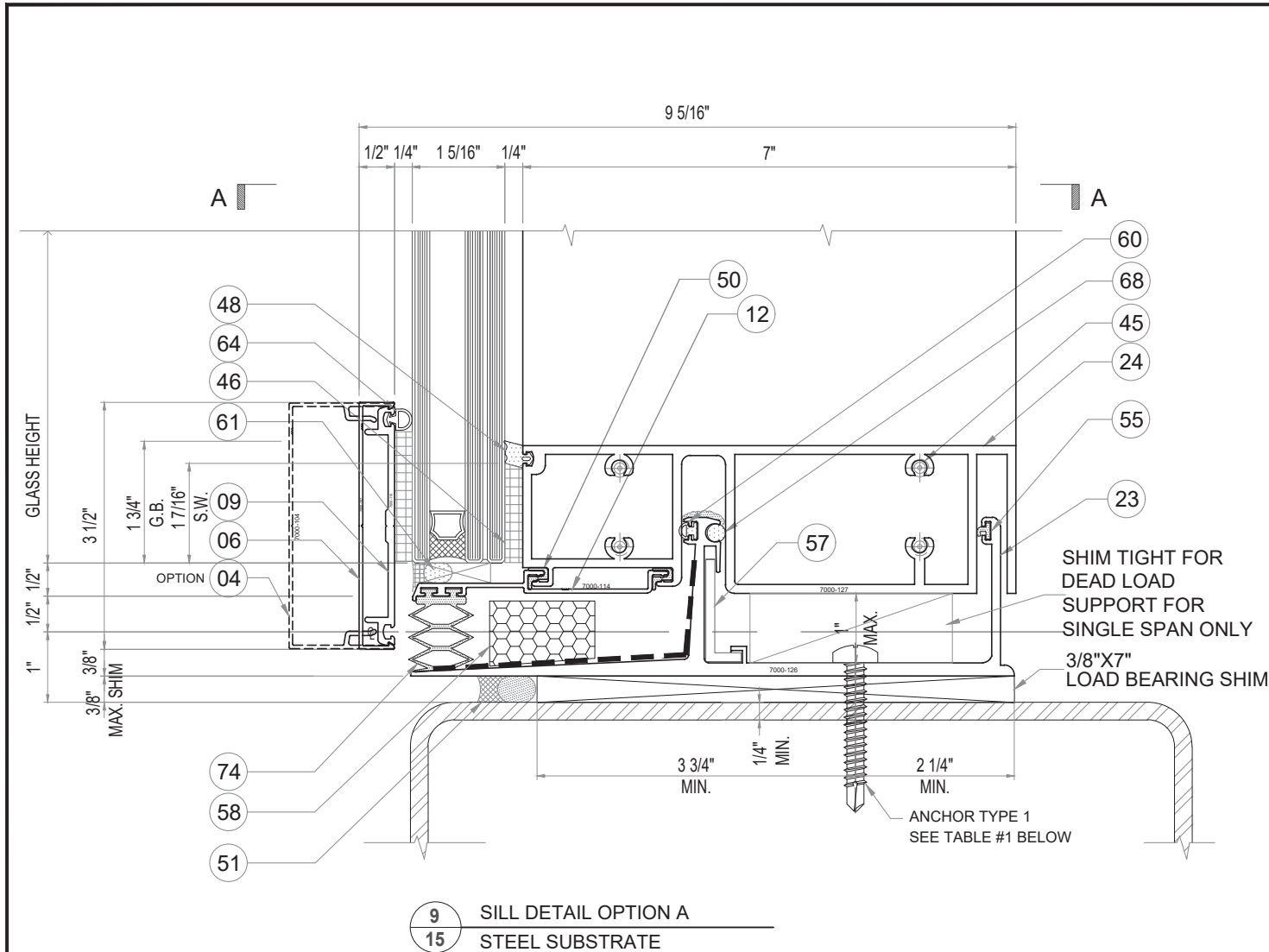
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FL#28879.1

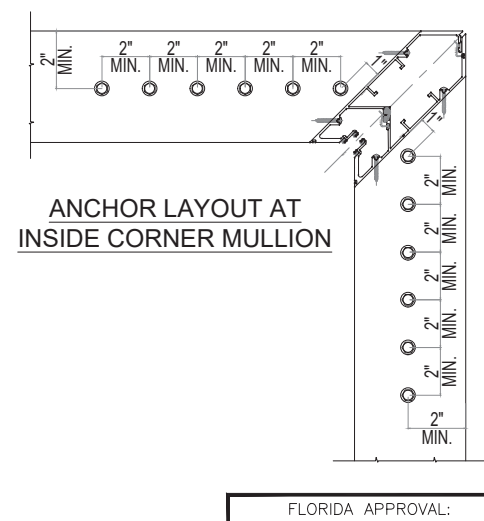
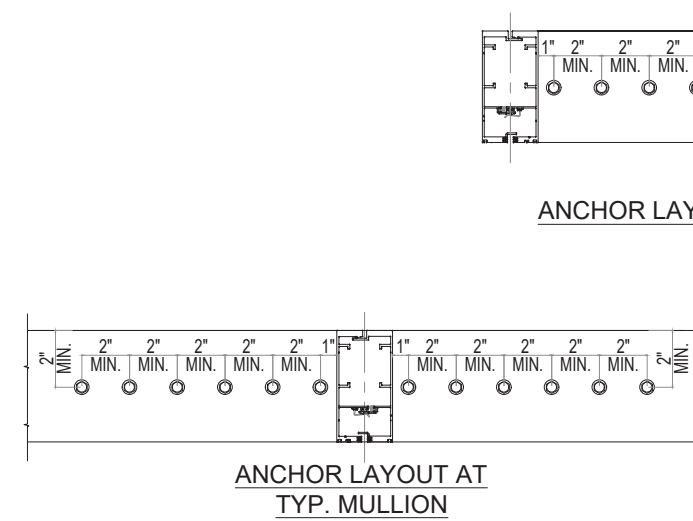
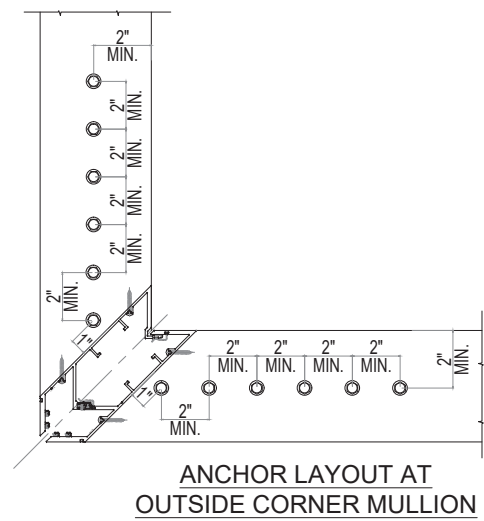
YIPING WANG
FLORIDA REGISTRATION
LICENSE # 55983
E.A.N. 28877

March 02nd, 2026

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07
SHEET	14 OF 38



	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M.S.)				
	(in)	36	42	48	54	60
AO#1	(in)	(in)	(in)	(in)	(in)	(in)
	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
AO#2	144	140	140	140	140	140
	120	140	140	140	140	140
	126	140	140	140	140	133
	132	140	140	140	140	127
	138	140	140	140	135	122
AO#3	144	140	140	140	130	117
	120	140	140	140	124	112
	126	140	140	133	119	107
	132	140	140	127	113	102
	138	140	139	122	108	97
	144	140	133	117	104	93



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)

ANCHOR OPTIONS (Rmax. LBS)	TABLE #1: NO. OF ANCHOR TYPE 1-SILL ANCHOR.	
	OPTION A	OPTION B
	NO. OF ANCHORS @EA.SIDE OF MULL. ANCHOR TYPE 1	NO. OF ANCHORS @EA.SIDE OF MULL. 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#28879.1

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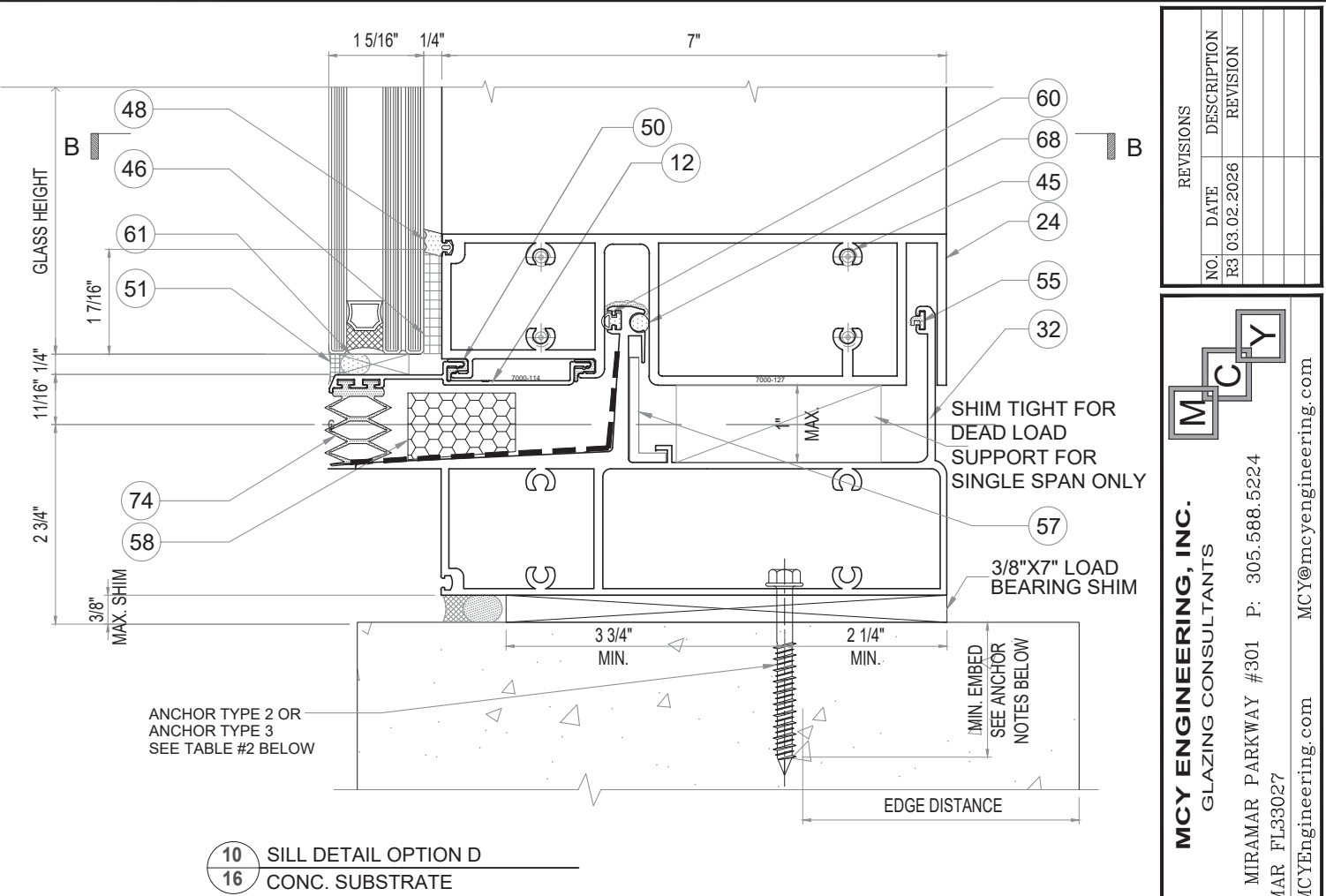
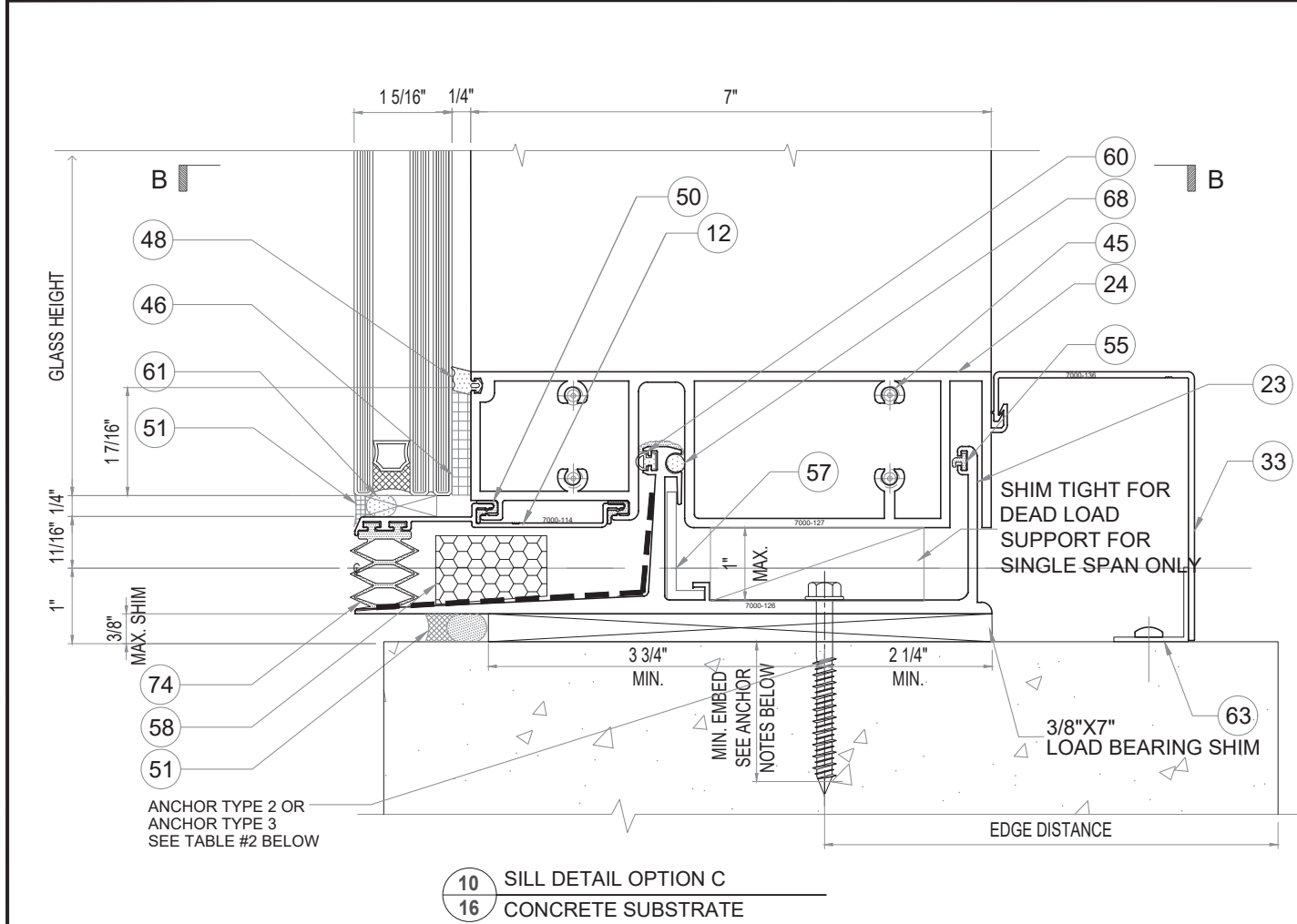
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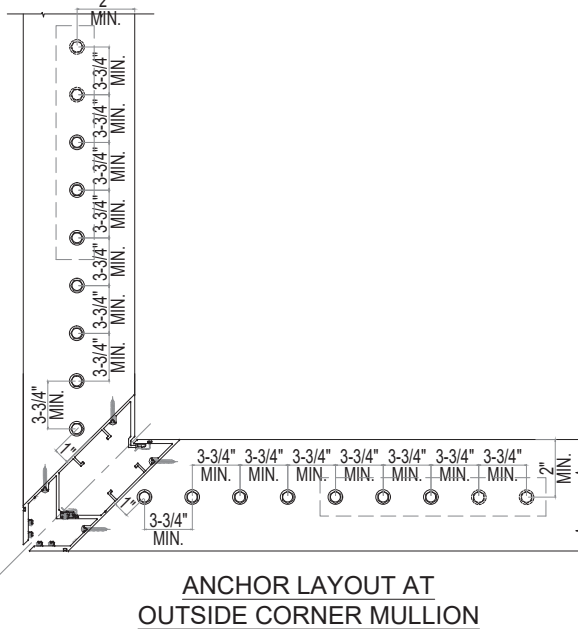
DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07

SHEET 15 OF 38

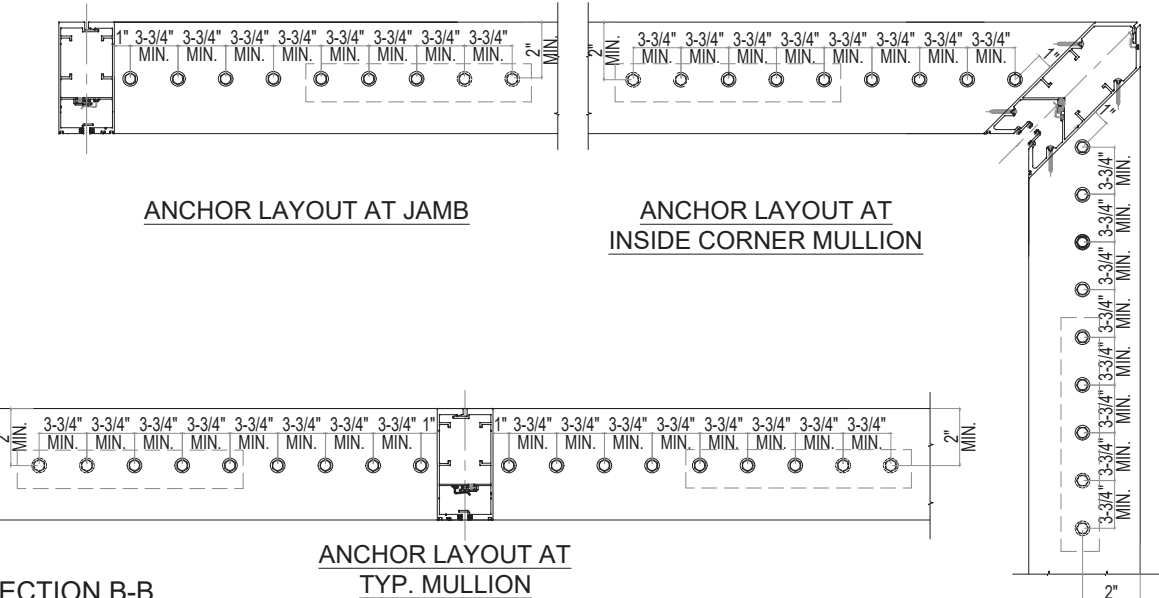


	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M.S.)				
	(in)	36	42	48	54	60
AO#1	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140
AO#2	120	140	140	140	140	140
	126	140	140	140	140	133
	132	140	140	140	140	127
	138	140	140	140	135	122
	144	140	140	140	130	117
AO#3	120	140	140	140	124	112
	126	140	140	133	119	107
	132	140	140	127	113	102
	138	140	139	122	108	97
	144	140	133	117	104	93
AO#4	120	140	131	115	102	92
	126	140	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 ELCO (Fu=177ksi Fy=155ksi)
DIRECTLY INTO CONCRETE fc' = 3515 psi MIN.
1-3/4" MIN. EMBED INTO CONCRETE
2-3/16" MIN EDGE DISTANCE

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



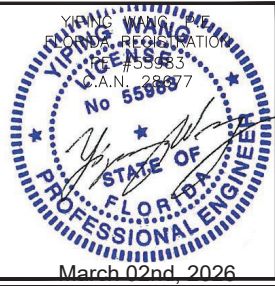
SECTION B-B

TABLE #2: NO. OF ANCHORS TYPE 2 OR 3 - SILL ANCHOR.

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#28879.1



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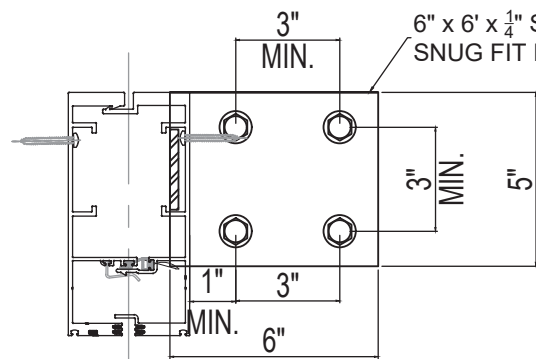
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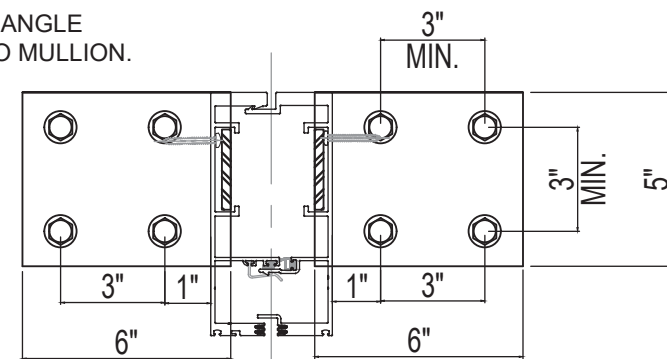
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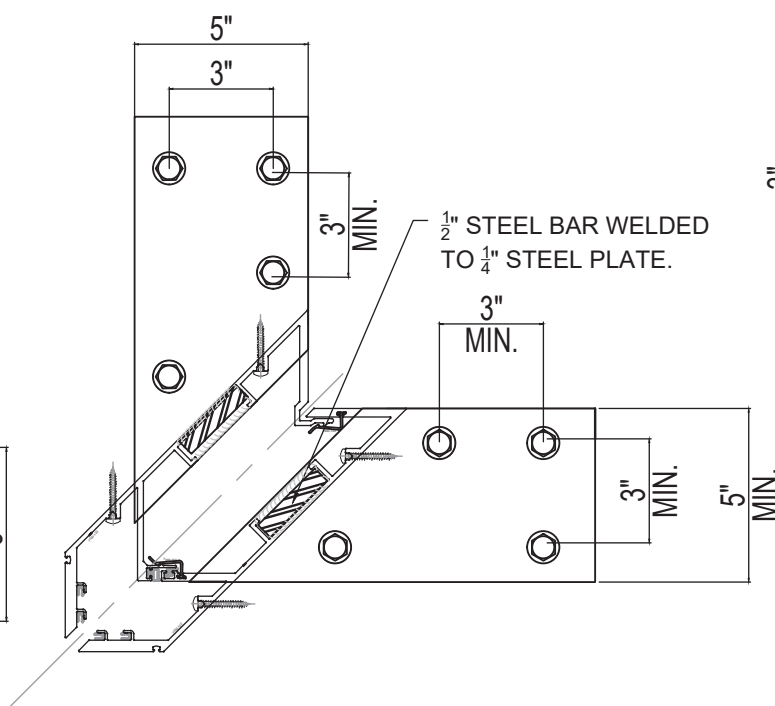
SHEET 16 OF 38



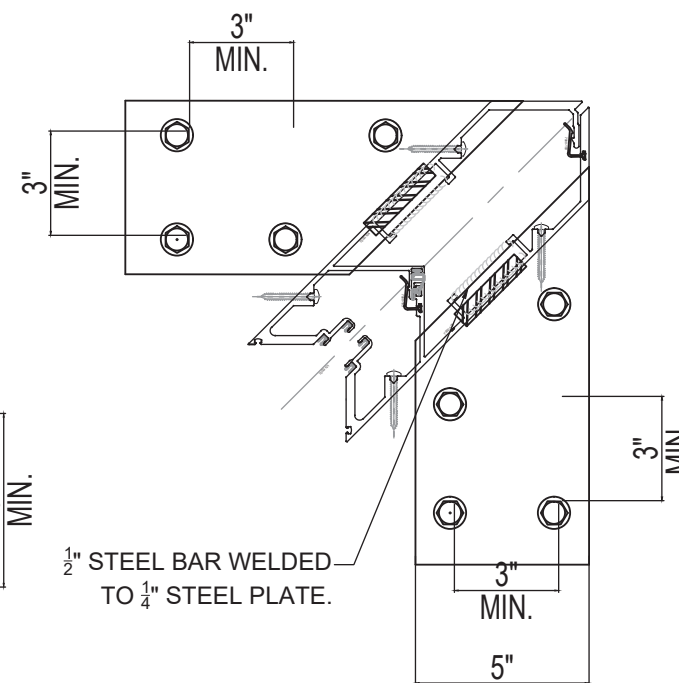
ANCHOR LAYOUT AT TYP. JAMB



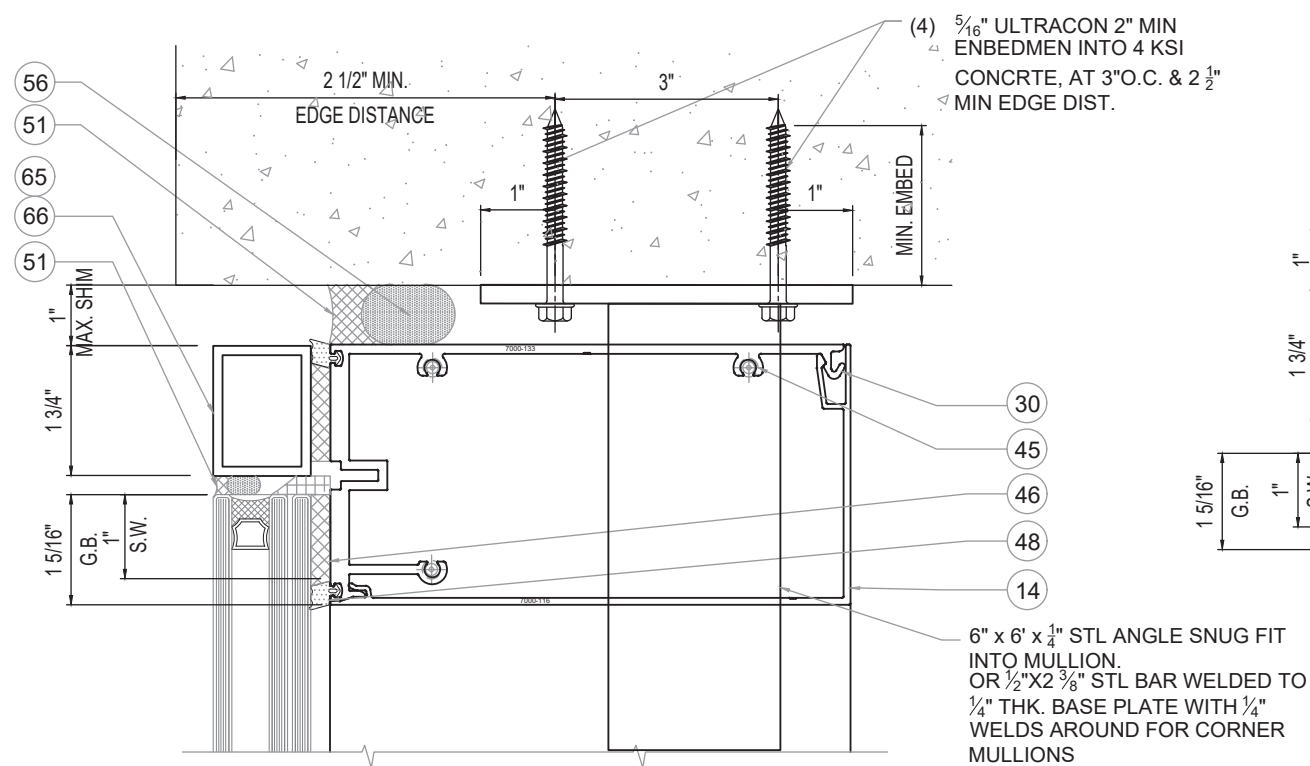
ANCHOR LAYOUT AT TYP. MULLION



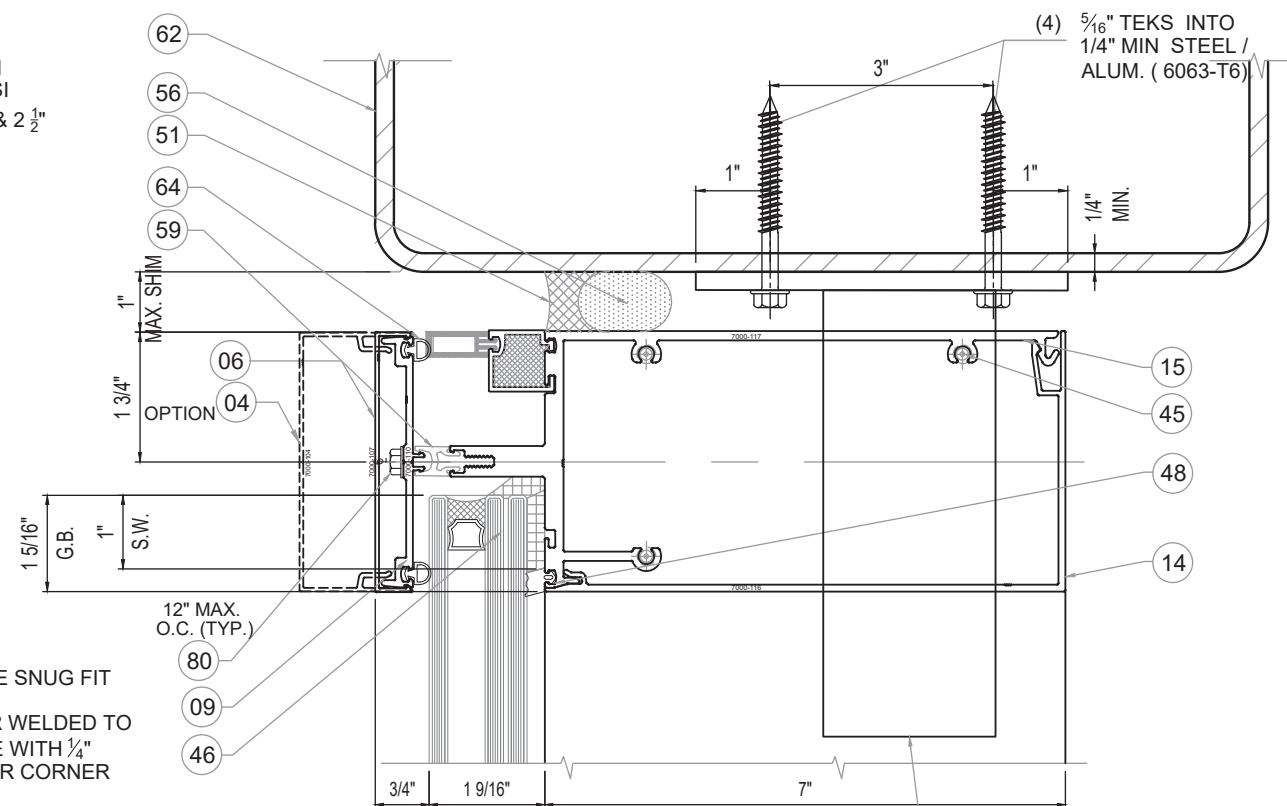
ANCHOR LAYOUT AT OUTSIDE
CORNER
86.90°-90°-94.4° CORNER



ANCHOR LAYOUT AT
INSIDE CORNER



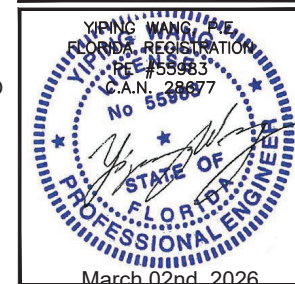
11 HEAD DETAIL OPTION A
17



11 HEAD DETAIL OPTION B
17

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

FLORIDA APPROVAL:
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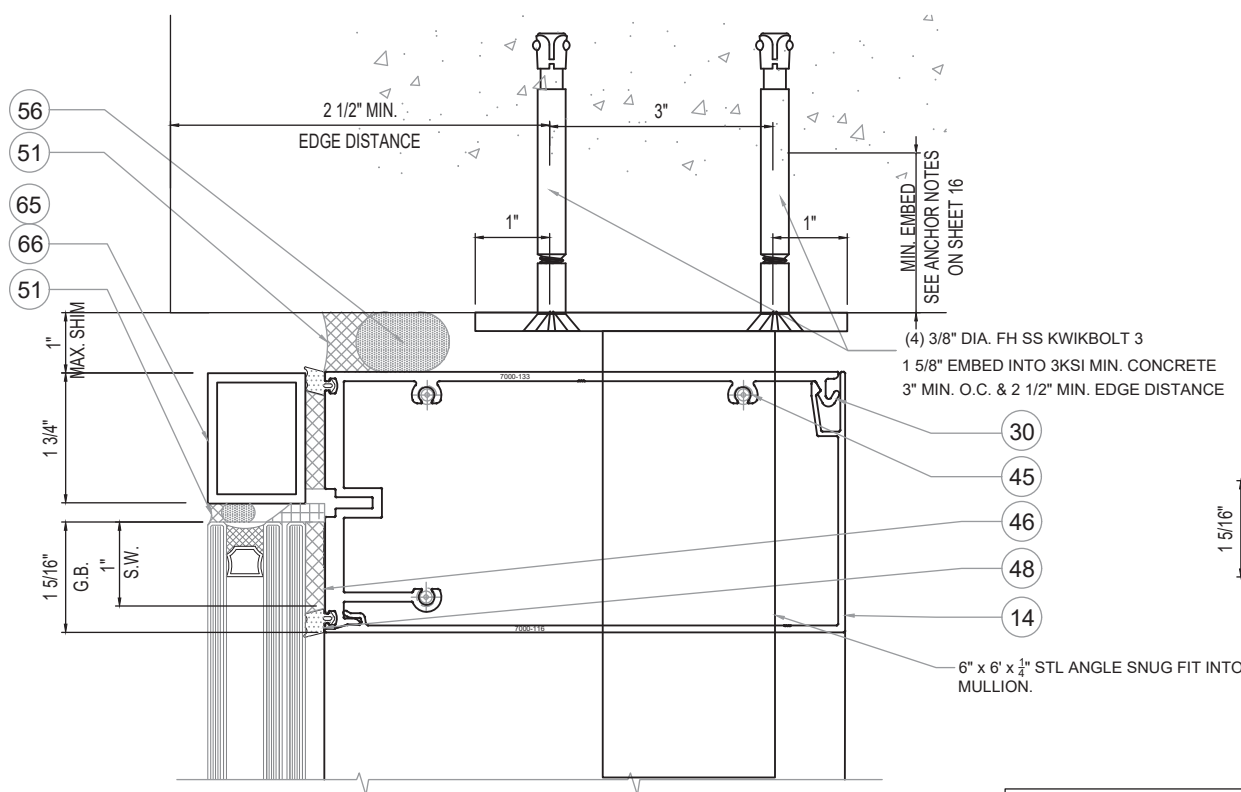
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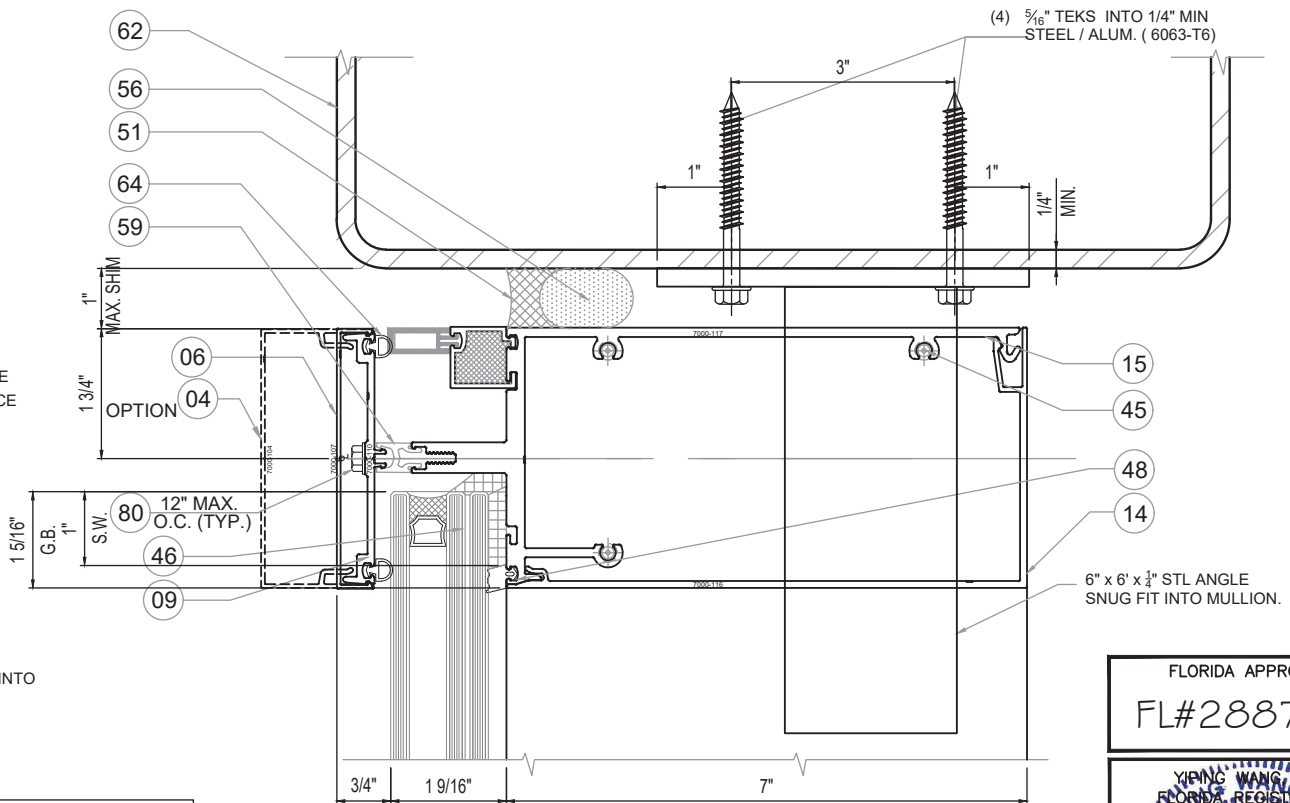
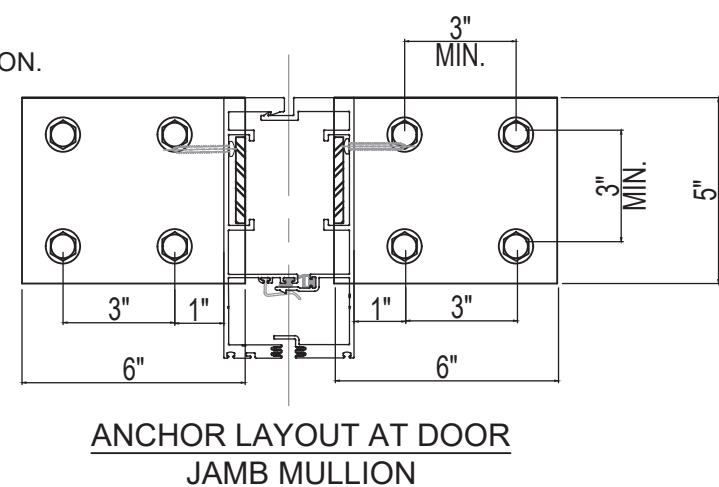
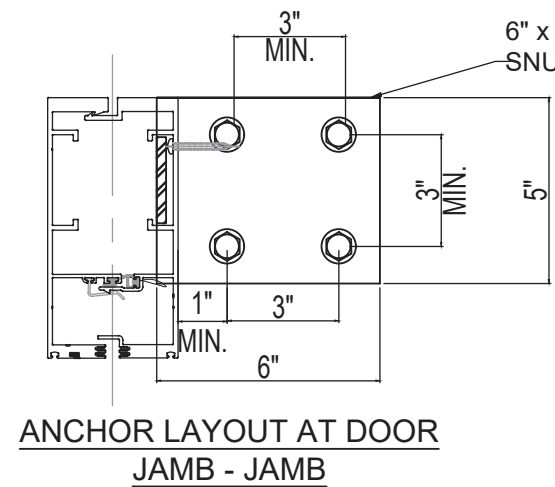
DRAWING NO.
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SHEET 17 OF 38



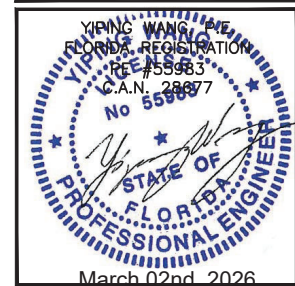
11 HEAD DETAIL OPTION
17A AT DOOR JAMB MULLION OR JAMB

NOTE:
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HEAD OPTIONS CAN BE ANCHORED
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11 HEAD DETAIL OPTION
17A AT DOOR JAMB MULLION OR JAMB

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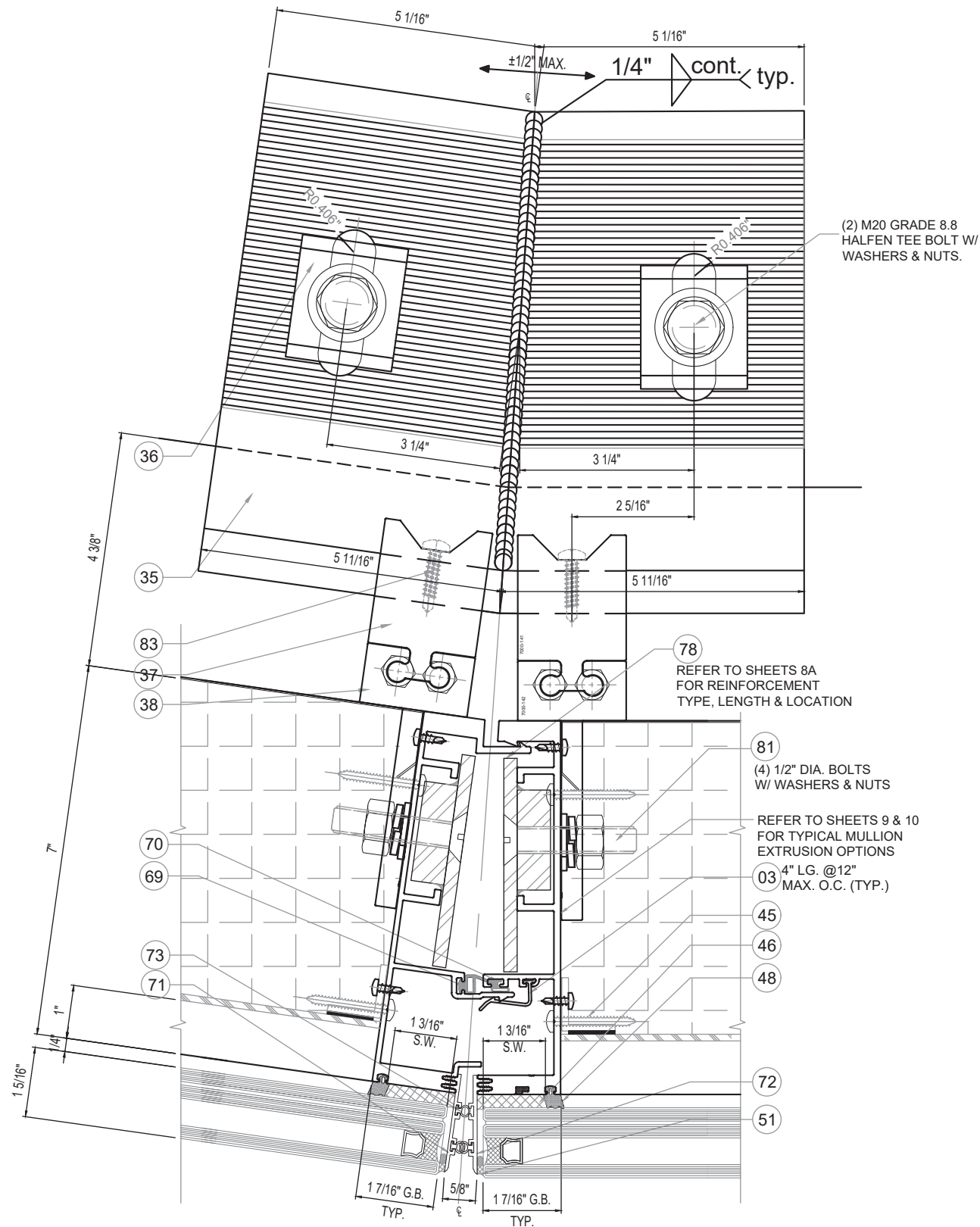
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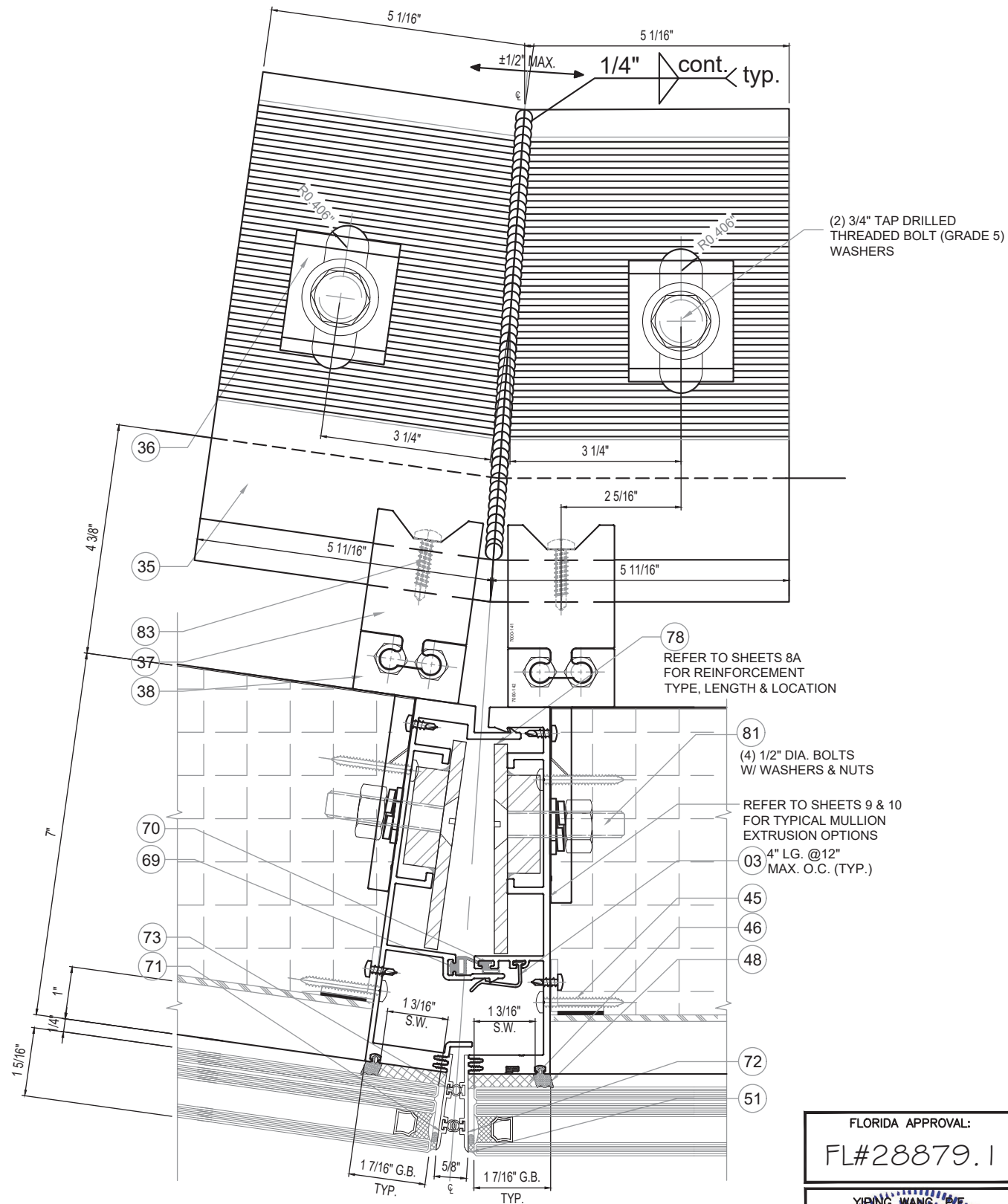
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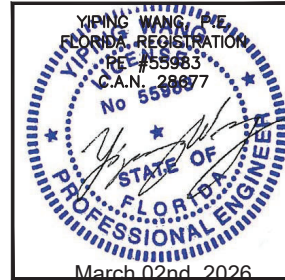


12A
18A TYP. MULLION 172° - ANCHOR TYPE A



14A
18A TYP. MULLION 172° - ANCHOR TYPE B

FLORIDA APPROVAL:
FL#28879.1



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SHEET 18A OF 38	



MAX. MULL. SPACING	MAX. MULL. SPAN	MAX. DESIGN LOAD	MAX. END REACTION Rmax.
5'-0"	10'-0"	75 PSF.	3750 LBS
5'-0"	12'-0"	60 PSF.	3600 LBS

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SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

TECNOGLASS, LLC.

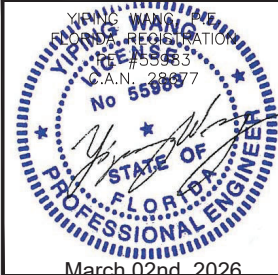
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

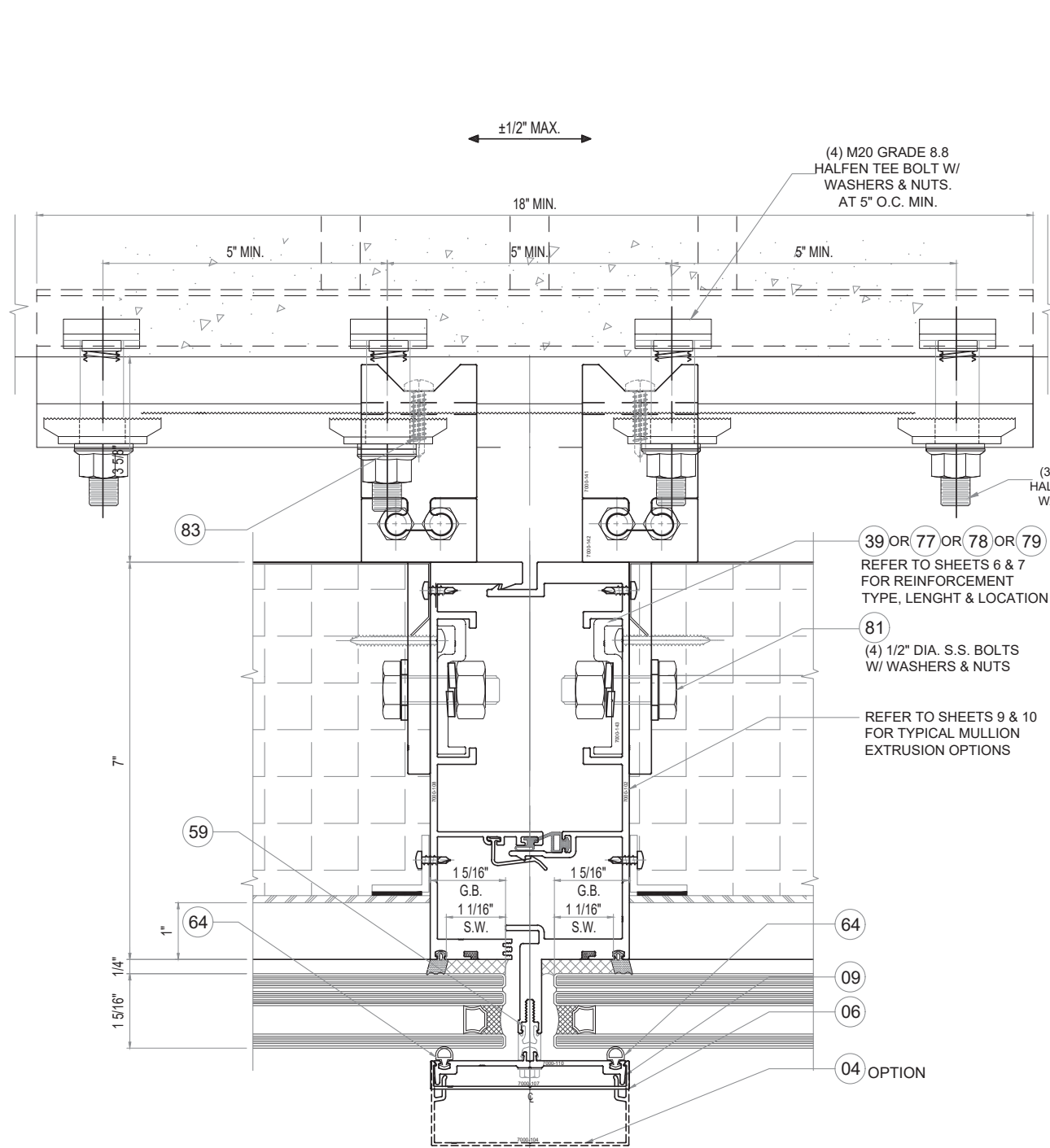
DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07

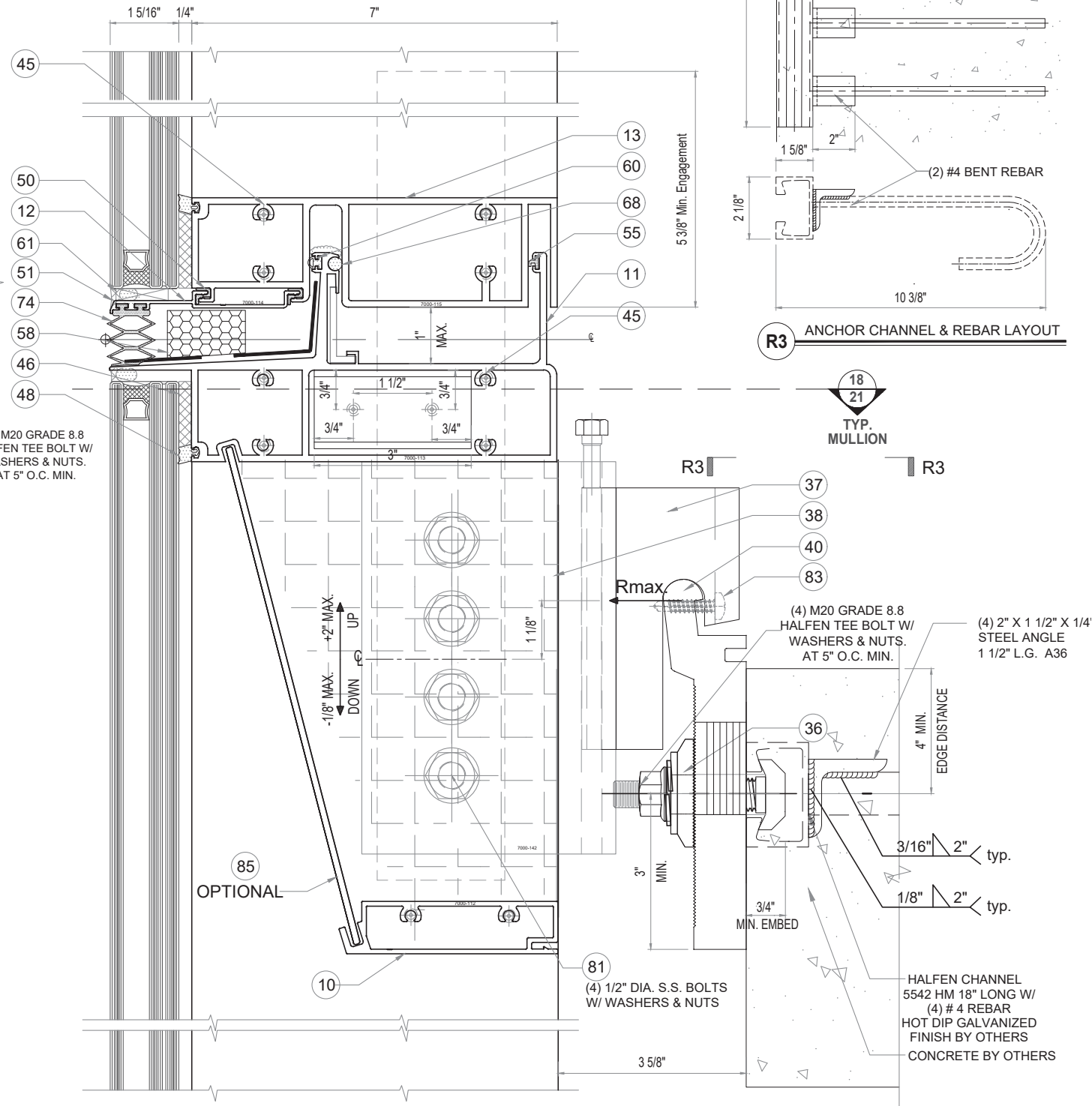
SHEET 20 OF 38

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FL#28879.1



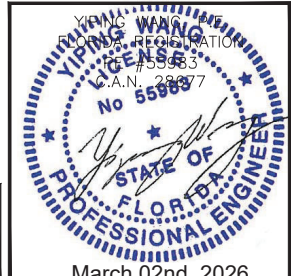


18
21 TYP. MULLION - ANCHOR TYPE C-1



19
21 EXP. JOINT - ANCHOR TYPE C-1 SECTION

FLORIDA APPROVAL:
FL#28879.1



REVISIONS		
NO.	DATE	DESCRIPTION
R3	03.02.2026	REVISION

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TECNOGLASS, LLC.

SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

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DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07
SHEET	21 OF 38

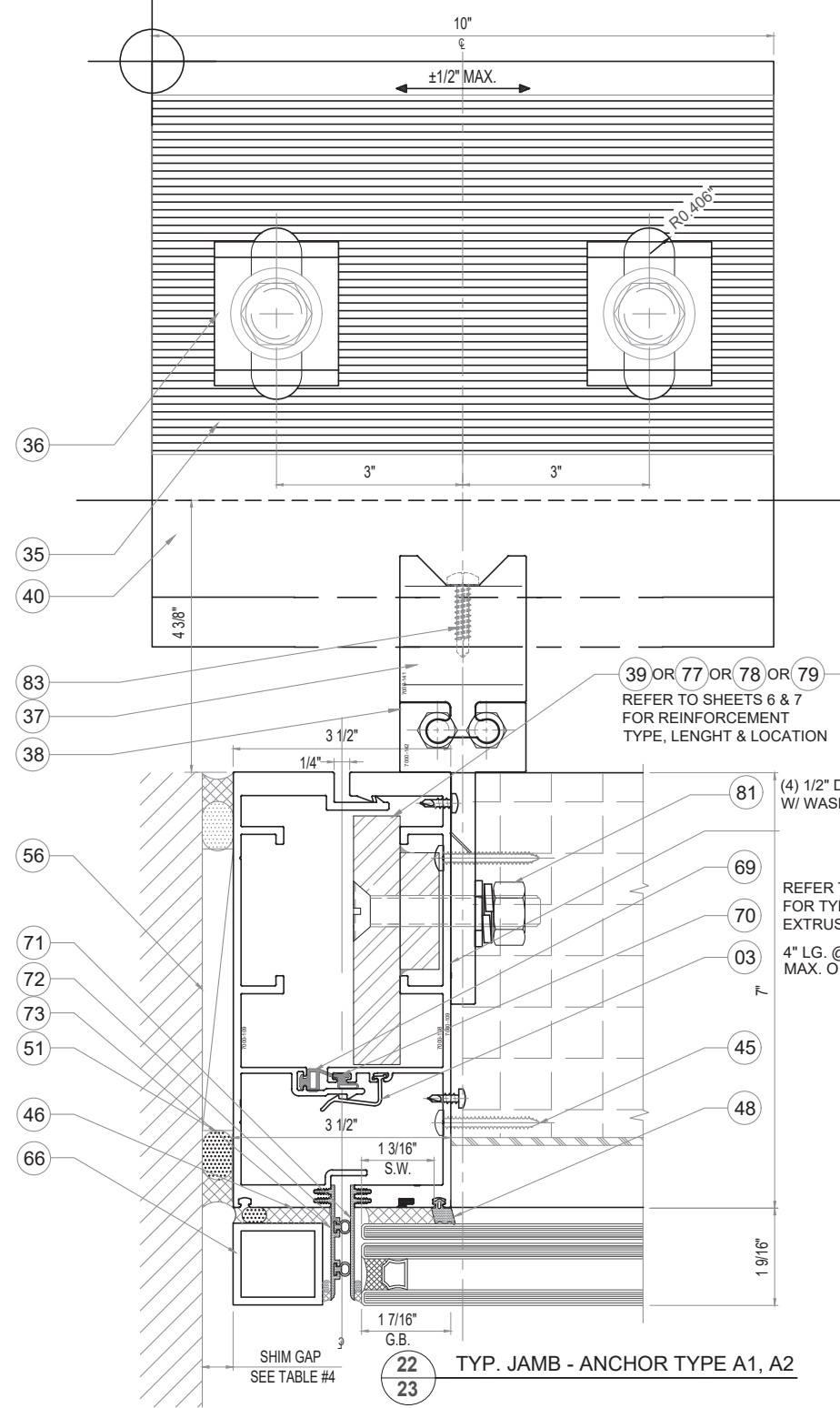
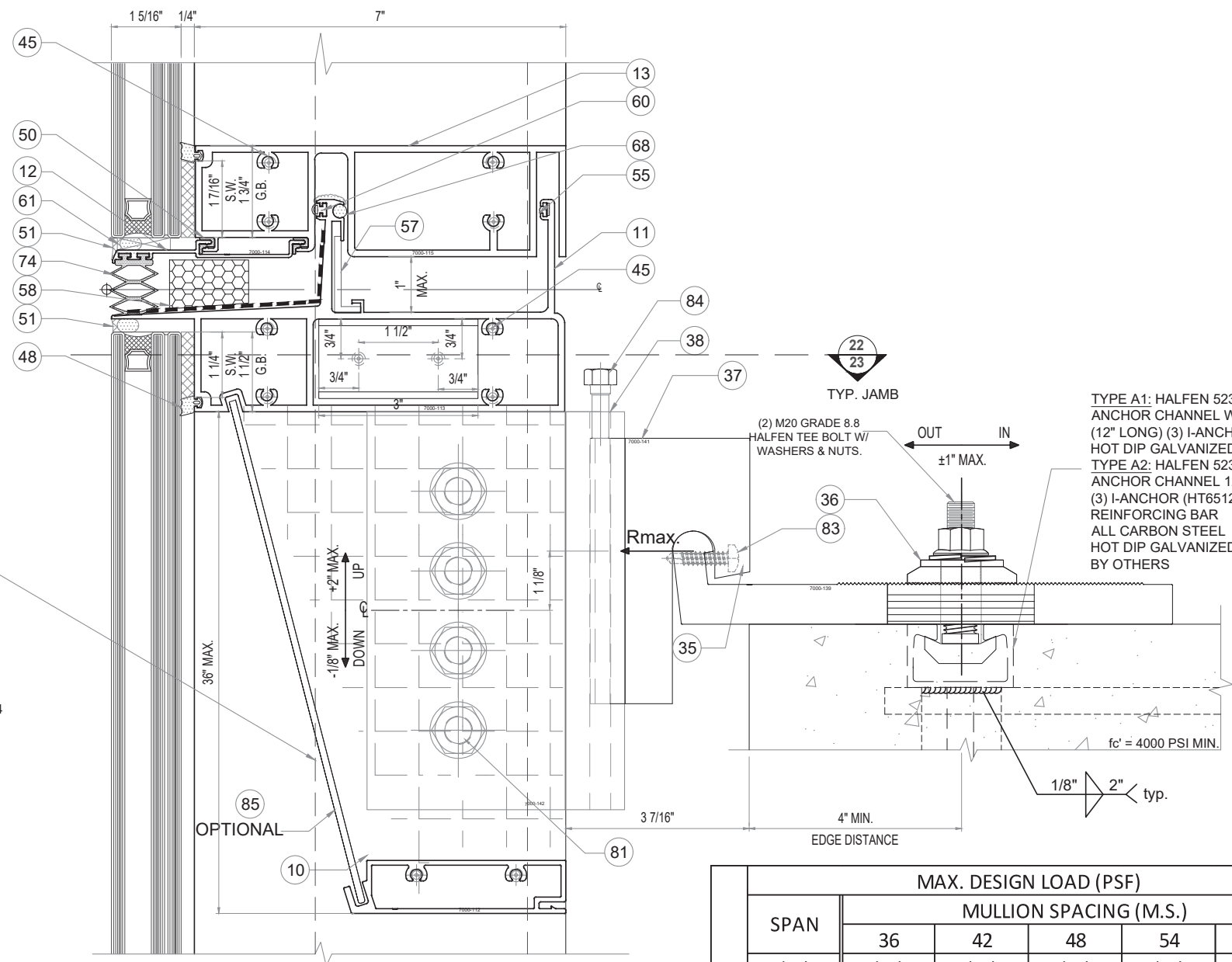


TABLE #4: MIN/MAX SHIM GAP

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"

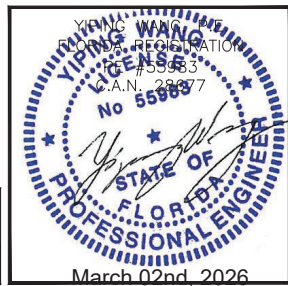
*JAMB SPAN: - ANCHOR C TO C



23 JAMB EXP. JOINT - ANCHOR TYPE A1, A2 SECTION

	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M.S.)				
	(in)	36 (in)	42 (in)	48 (in)	54 (in)	60 (in)
TYPE A1	120	140	140	130	116	104
	126	140	140	124	110	99
	132	140	136	119	105	95
	138	140	130	113	101	91
	144	140	124	109	97	87
TYPE A2	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140

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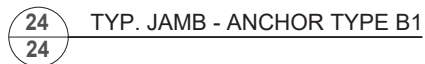
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SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

TECNOGLASS, LLC.
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

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SHEET	23 OF 38



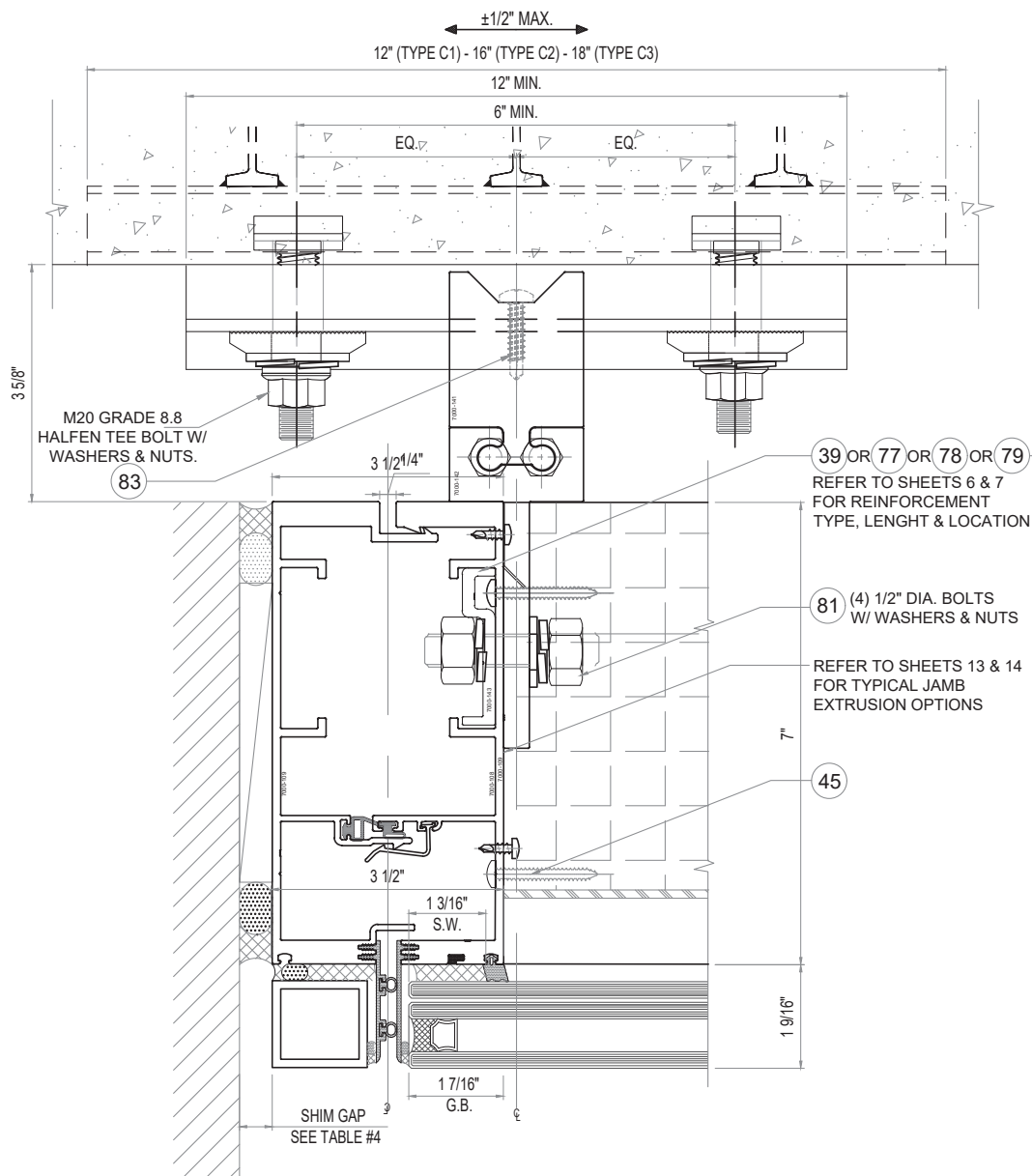
*JAMB SPAN: - ANCHOR C TO C



DATE	03.02.2026
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PROJECT	MCY19-010

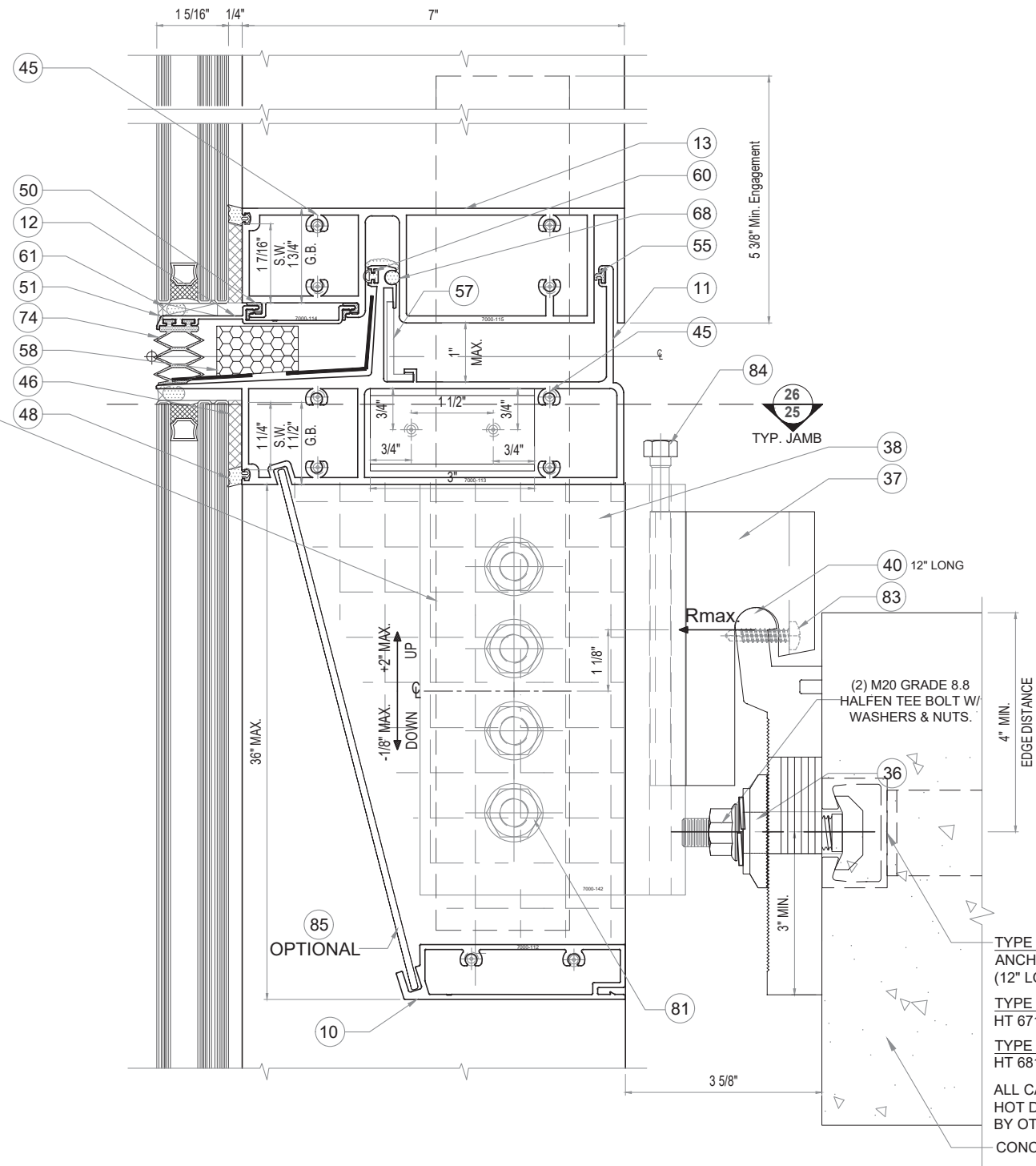
DRAWING NO.
AD19-07

SHEET 24 OF 38



26
25 TYP. JAMB - ANCHOR TYPE C1, C2, C3

	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M.S.)				
	(in)	36	42	48	54	60
TYPE C1	120	140	140	140	140	140
	126	140	140	140	140	139
	132	140	140	140	140	133
	138	140	140	140	140	127
	144	140	140	140	135	122
TYPE C2	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	136
TYPE C3	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140



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#28879.1

YIPING WANG
 PROFESSIONAL ENGINEER
 No 55983
 March 02nd, 2026

REVISIONS		
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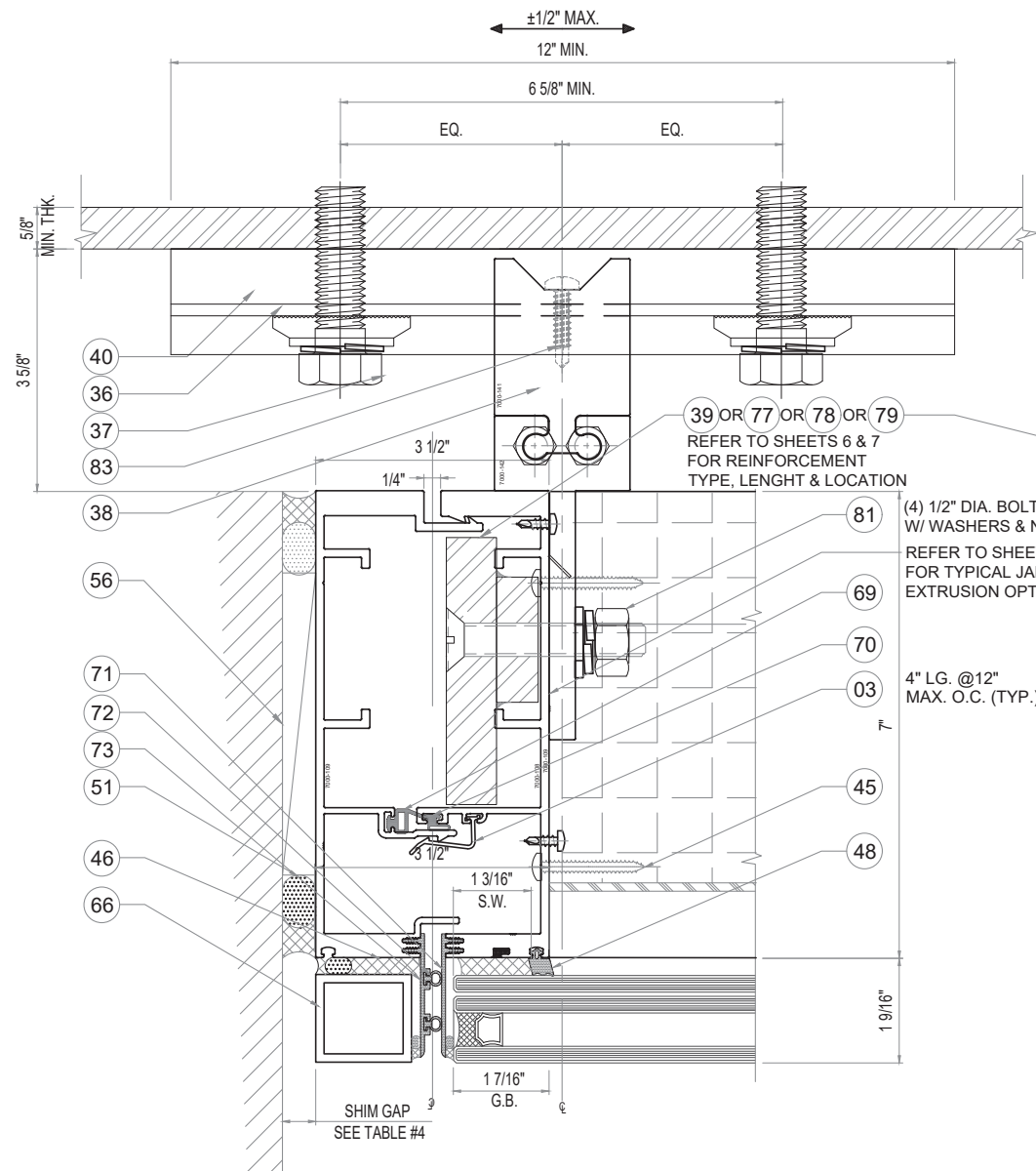
TECNOGLASS, LLC.

5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
 Phone (305) 342-0890 Fax (786) 513-3965

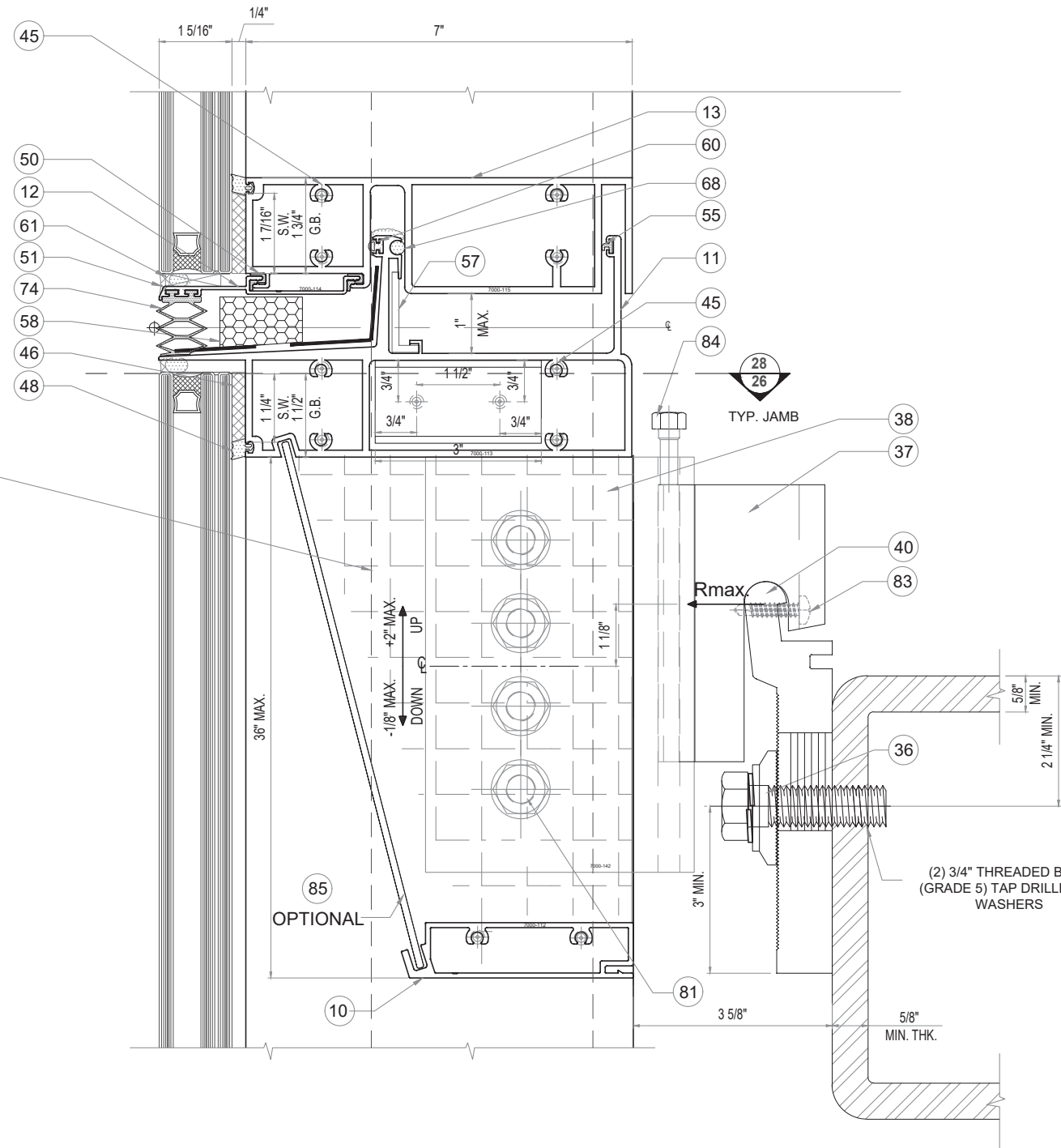
DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07

SHEET 25 OF 38

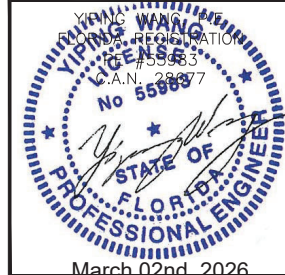


28
26 TYP. JAMB - ANCHOR TYPE D1



29
26 JAMB EXP. JOINT - ANCHOR TYPE D1 SECTION

FLORIDA APPROVAL:
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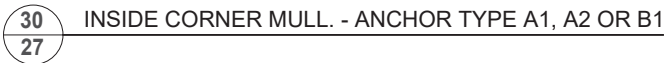
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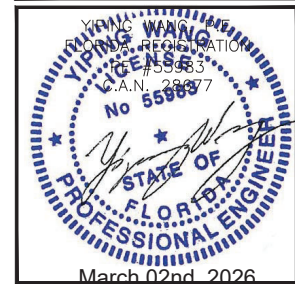
TECNOGLASS, LLC.

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DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-07	
SHEET 26 OF 38	



FLORIDA APPROVAL:
FL#28879.1



DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

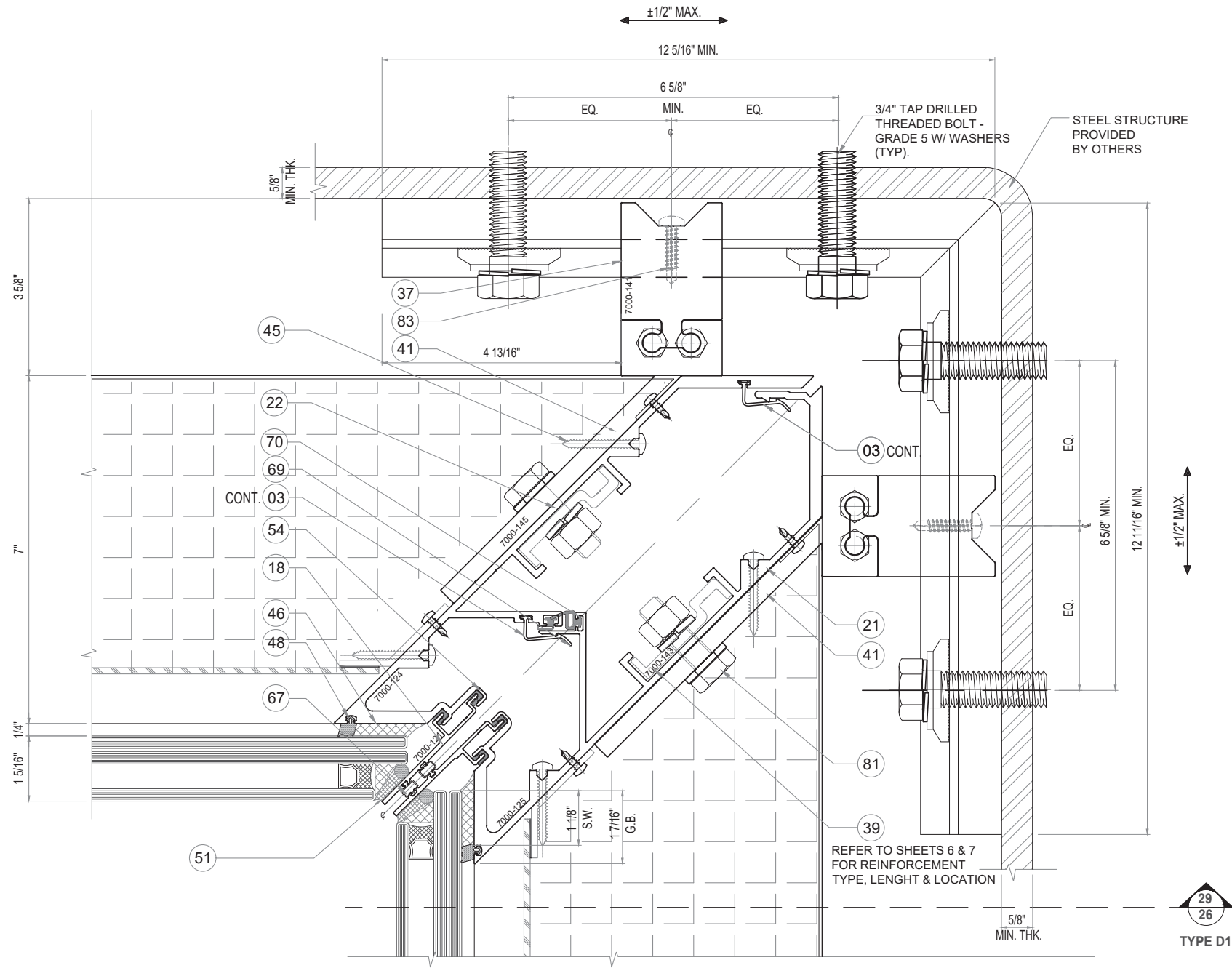
DRAWING NO.
AD19-07

SHEET 27 OF 38


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32
29 INSIDE CORNER MULL. - ANCHOR TYPE D1



FLORIDA APPROVAL:
FL#28879.1



DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

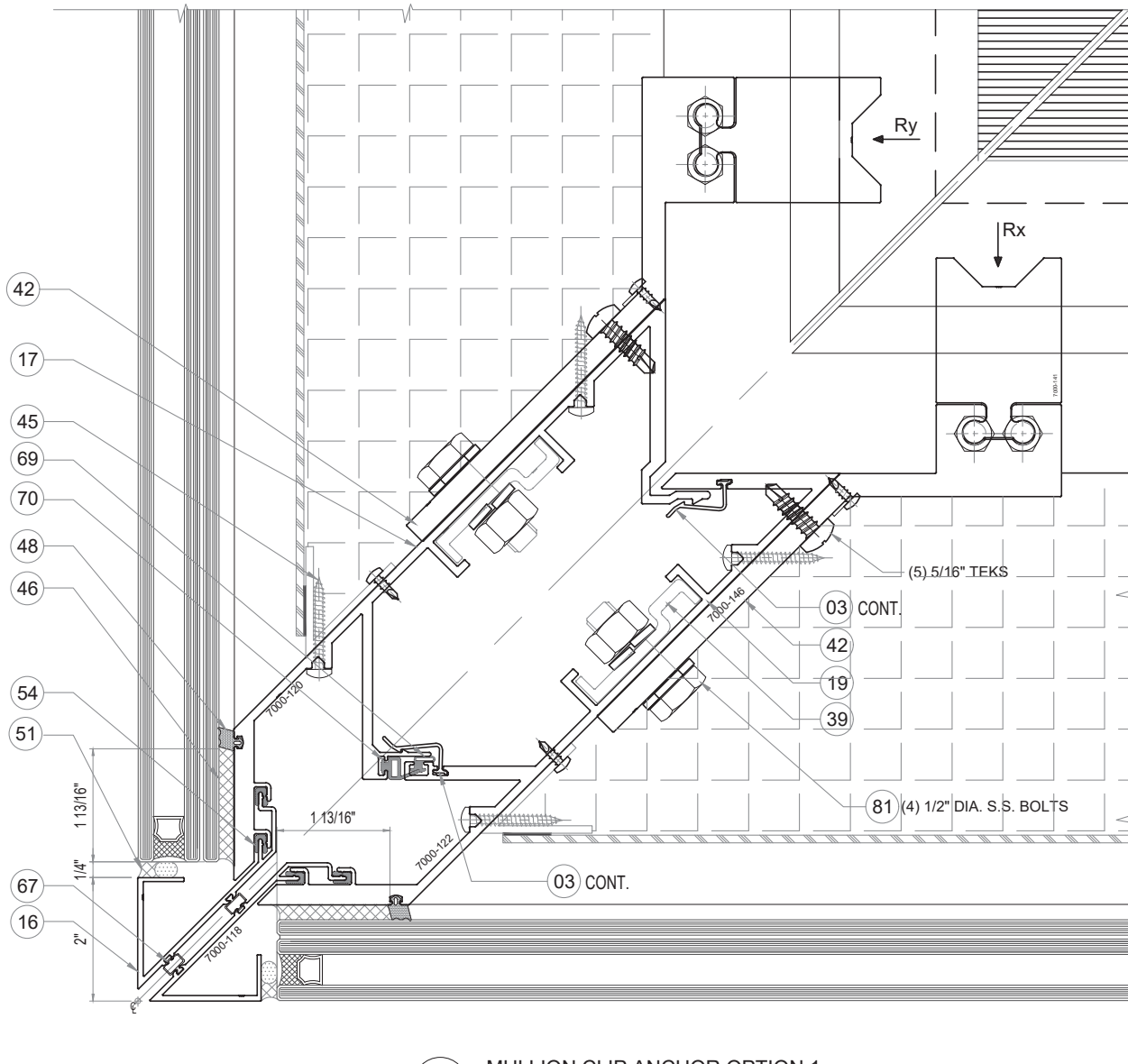
DRAWING NO.
AD19-07

SHEET 29 OF 38

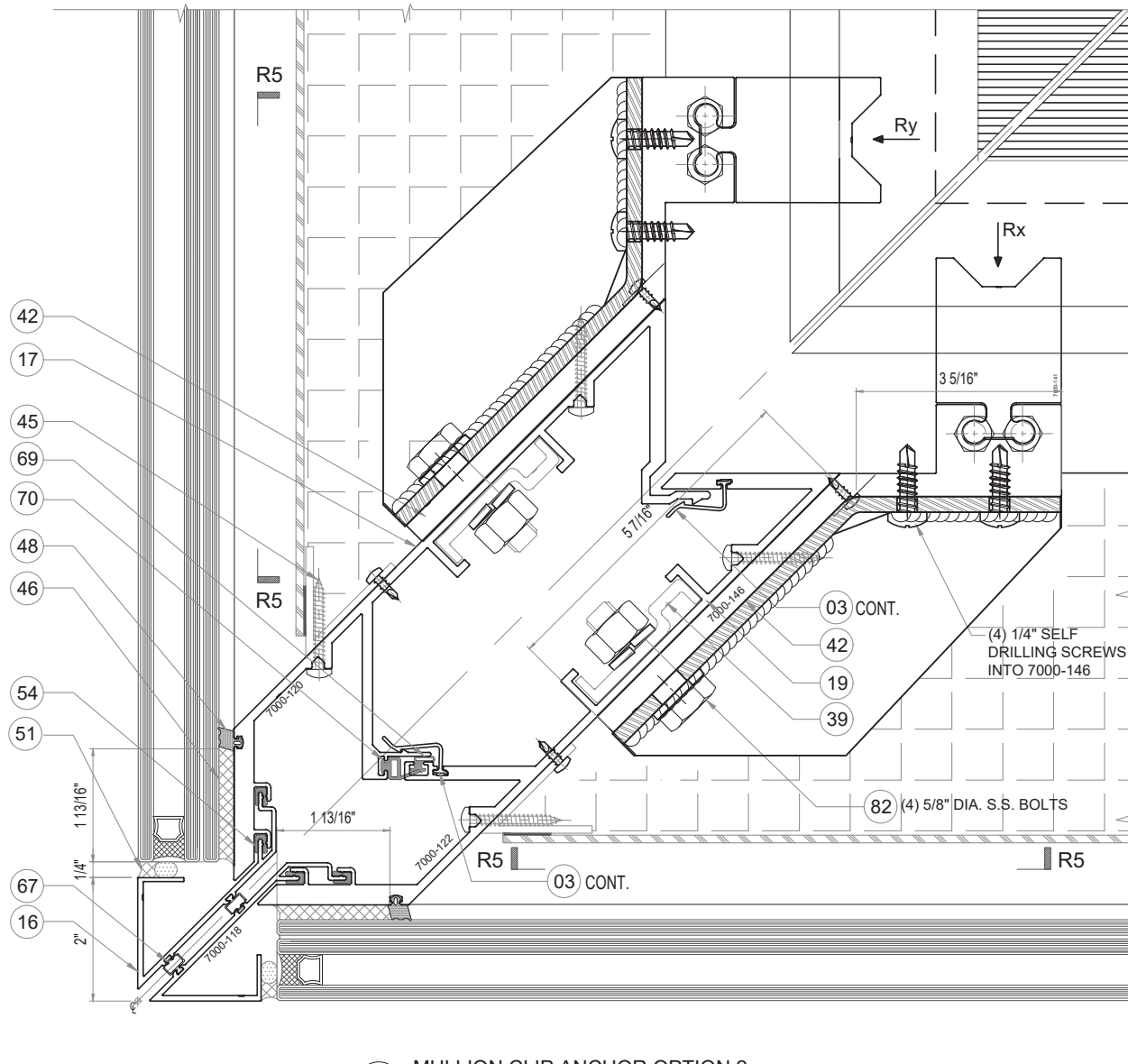
SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI
TECNOGLASS, LLC.
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

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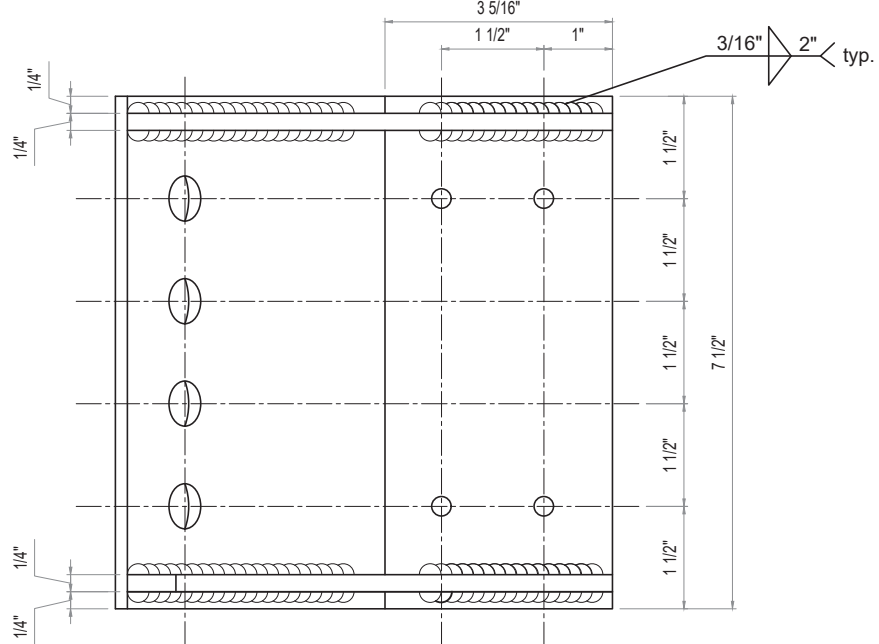


33 MULLION CLIP ANCHOR OPTION 1
30 Rx ≤ 2600 lbs



33 MULLION CLIP ANCHOR OPTION 2
30 2600 lbs < Rx or Ry

MULLION CLIP ANCHOR OPTION						
	MAX. DESIGN LOAD (PSF)					
	SPAN	MULLION SPACING (M.S.)				
		36	42	48	54	60
OPTION 1	(in)	(in)	(in)	(in)	(in)	(in)
	120	140	129	113	100	90
	126	140	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	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140



R5 - STEEL ANCHOR CLIP DETAIL
FRONT VIEW

FLORIDA APPROVAL:
FL#28879.1

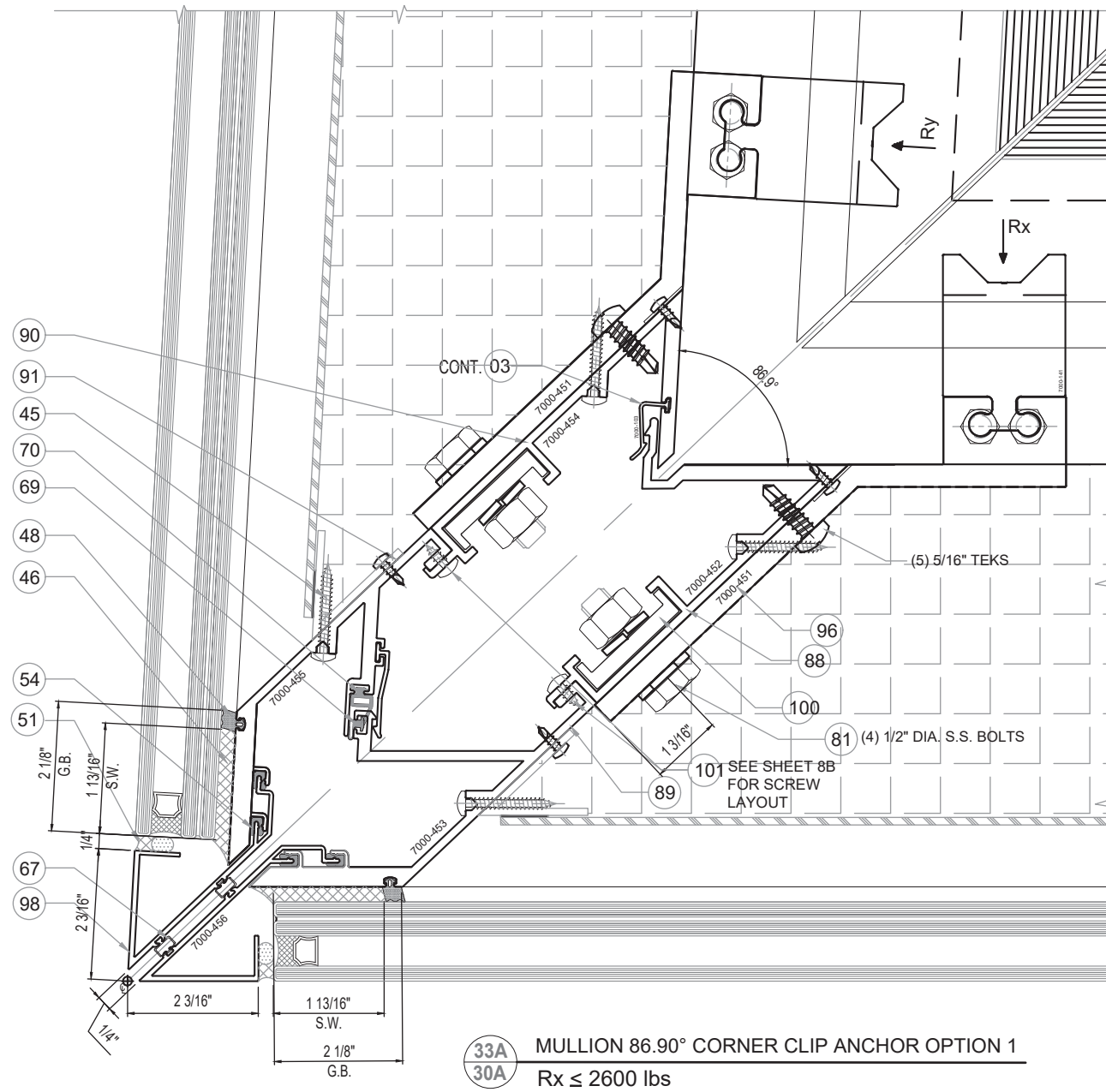
YIPING WANG
FLORIDA REGISTRATION
No. 55983
C.A.N. 28877
March 02nd, 2026

NO.	DATE	DESCRIPTION	REVISION
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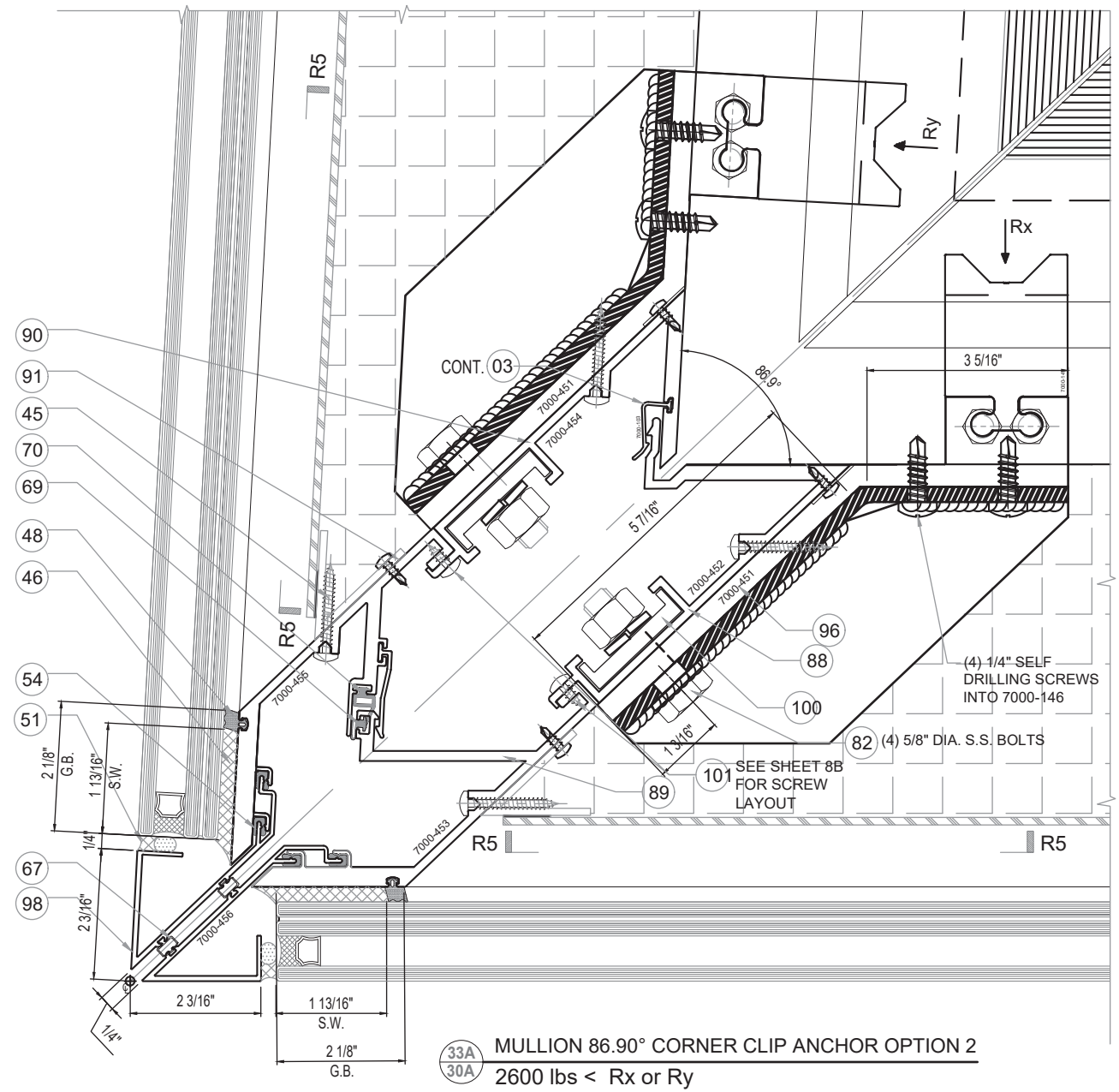
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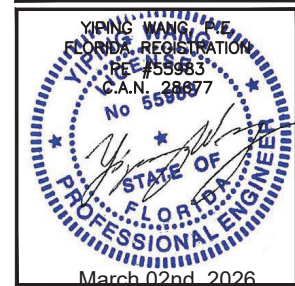
DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07
SHEET	30 OF 38



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



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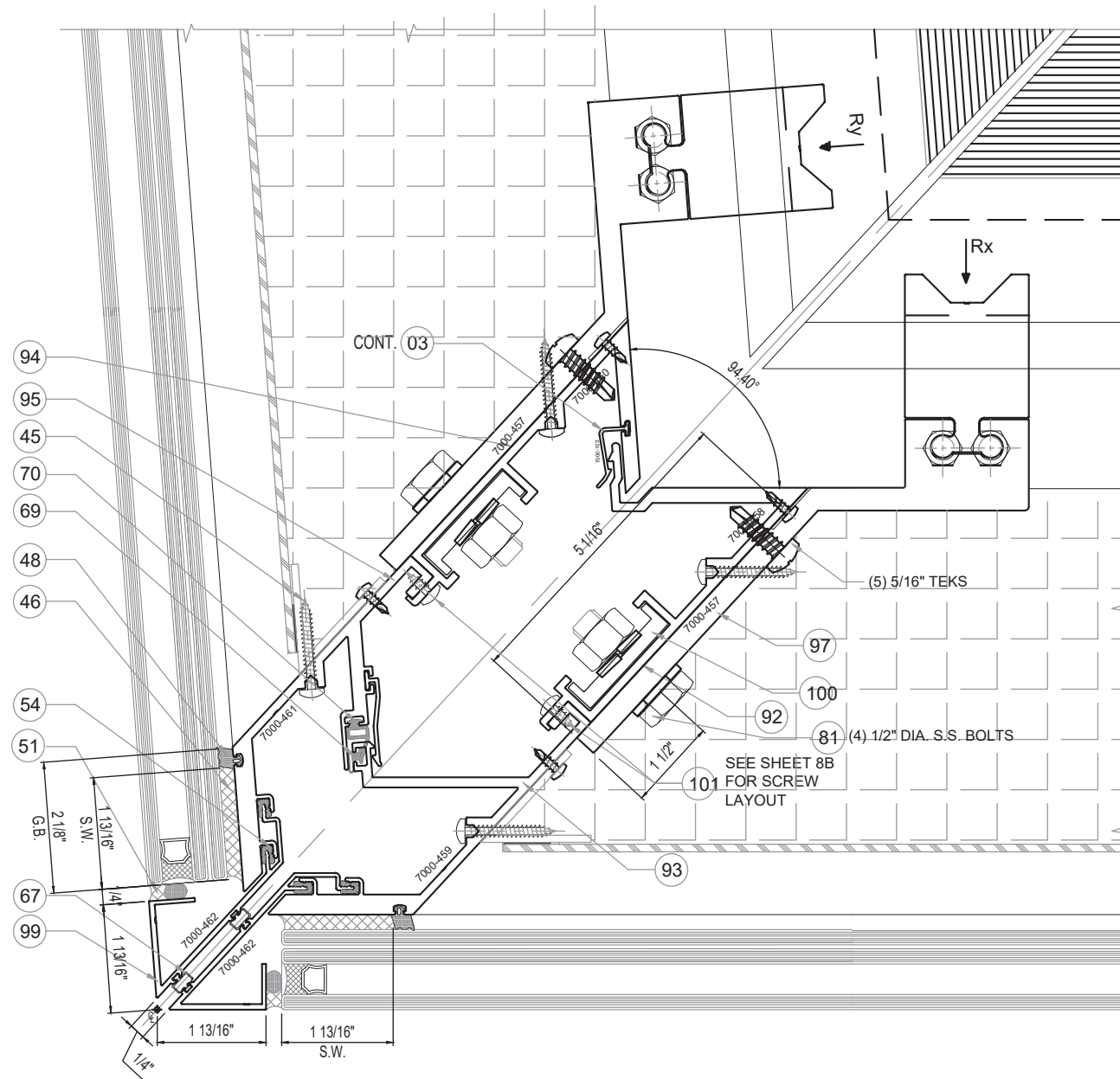
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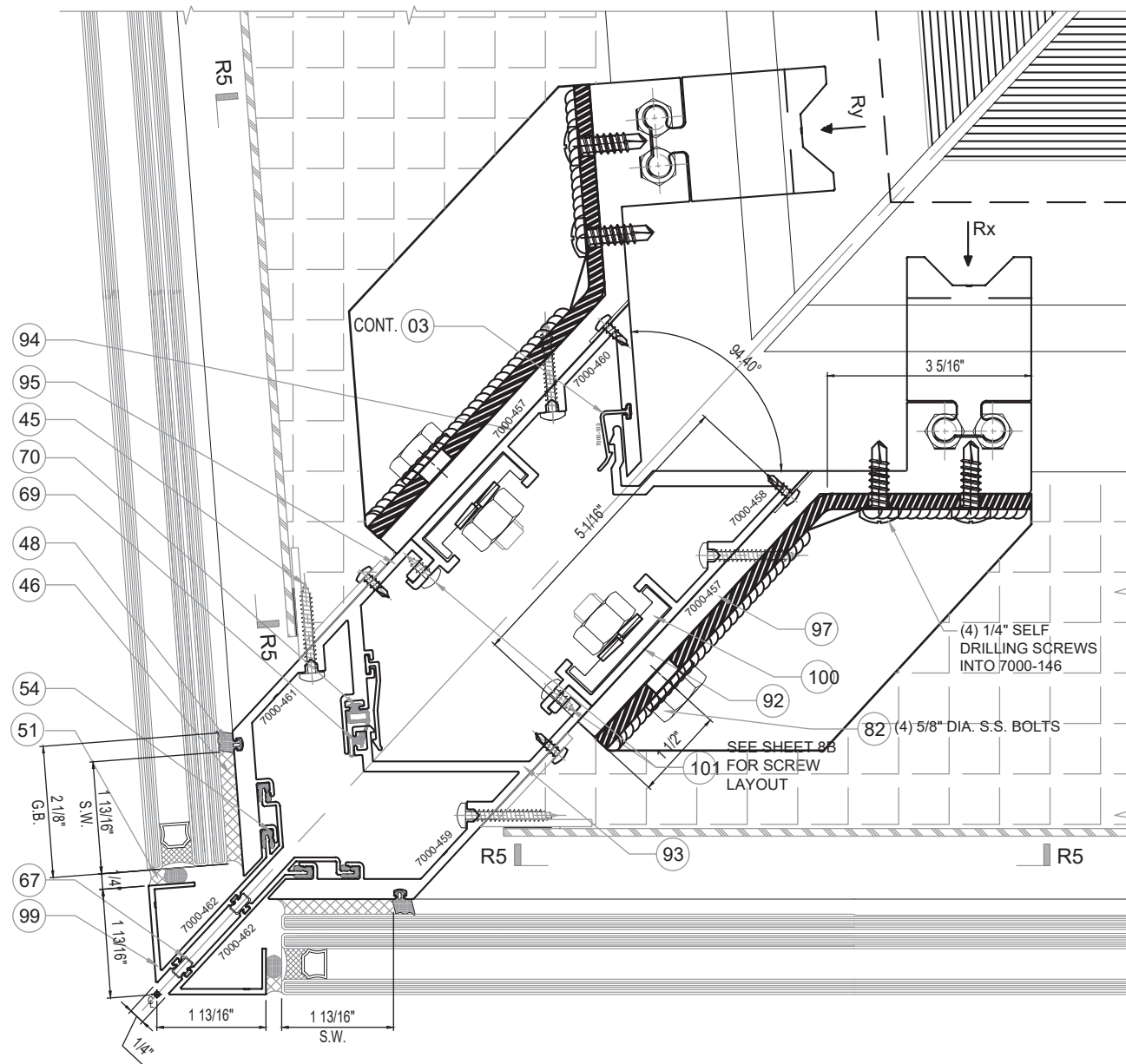
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
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DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07
SHEET	30A OF 38



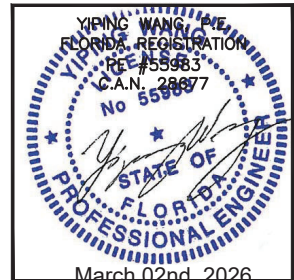
33B MULLION 94.40° CORNER CLIP ANCHOR OPTION 1
30B Rx ≤ 2600 lbs

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



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

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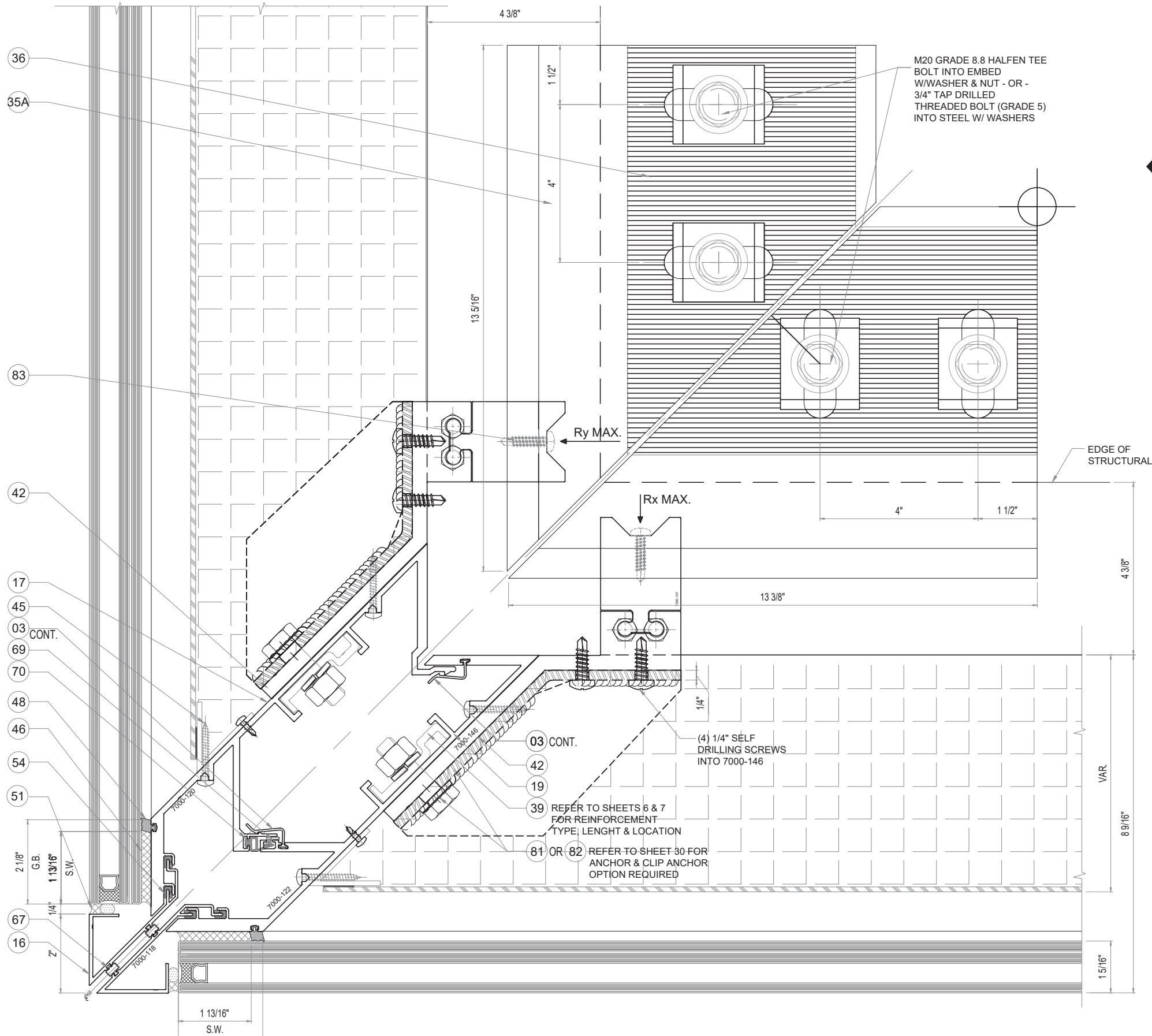


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DRAWING NO.	AD19-07
SHEET	30B OF 38



34
31

OUTSIDE CORNER MULL.
ANCHOR TYPE E OR F

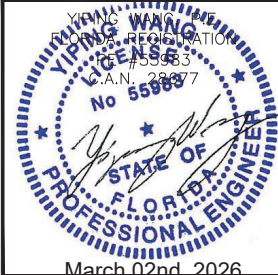
35
32

TYPE E

36
33

TYPE F

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FL#28879.1



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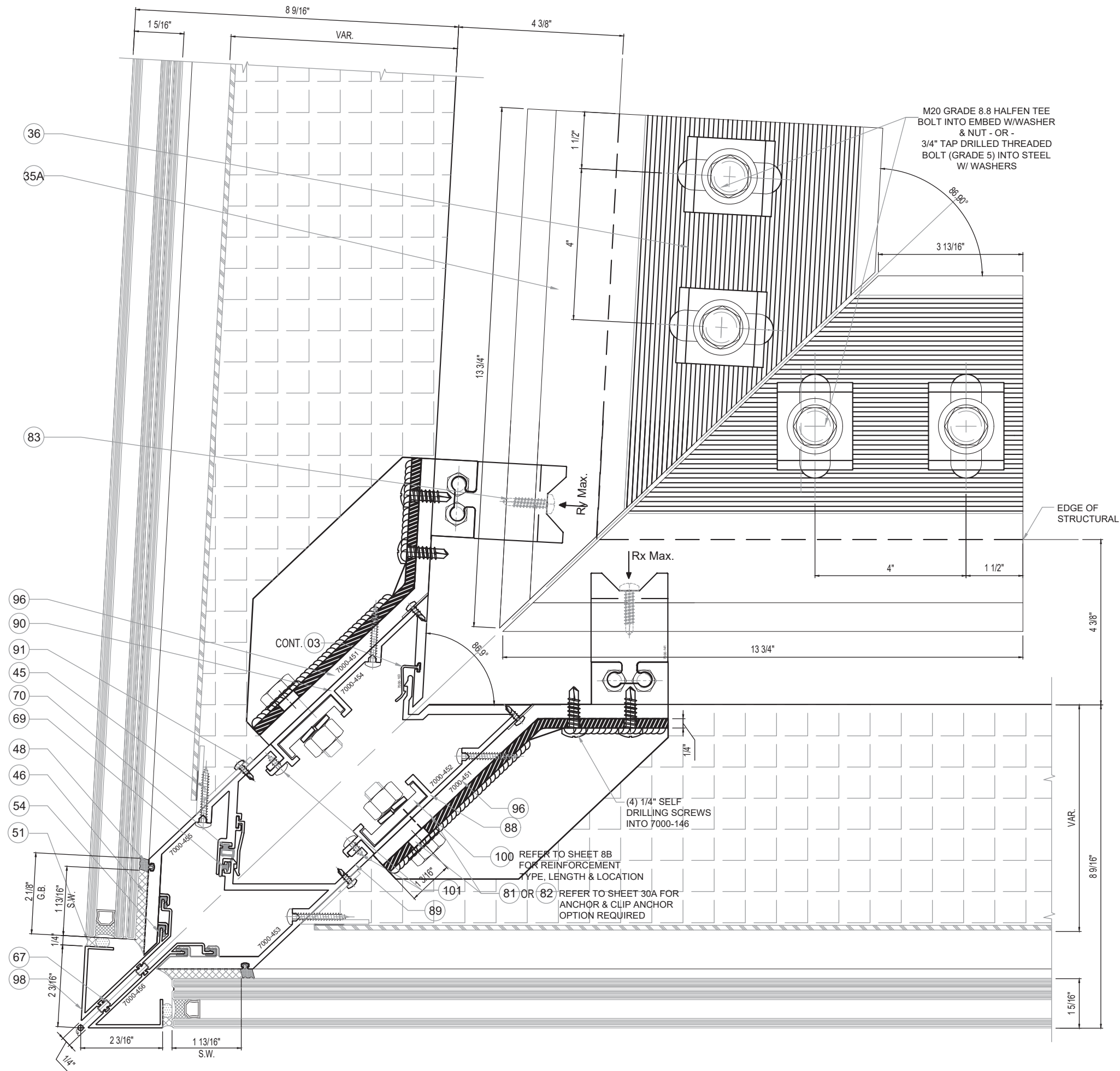
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DRAWING NO. AD19-07	
SHEET 31 OF 38	

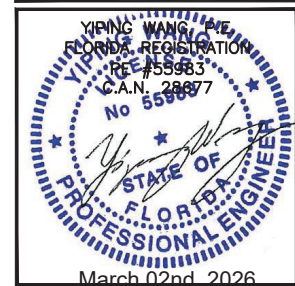


35
32
TYPE E

36
33
TYPE F

34A
31A
OUTSIDE CORNER 86.90° MULL.
ANCHOR TYPE E OR F

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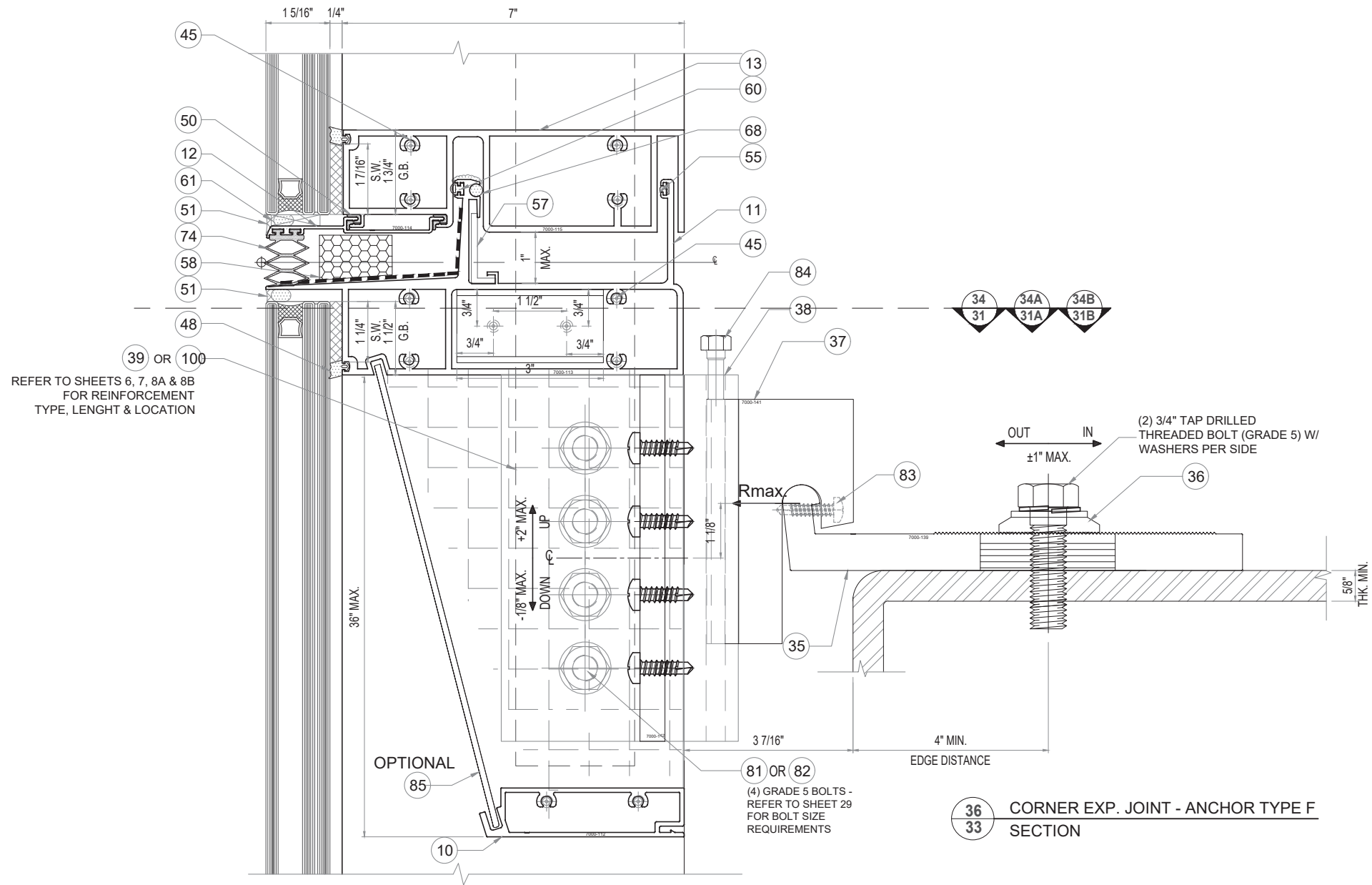
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SHEET 31A OF 38	



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AD19-07

SHEET 33 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI
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NO.	DATE	DESCRIPTION
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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

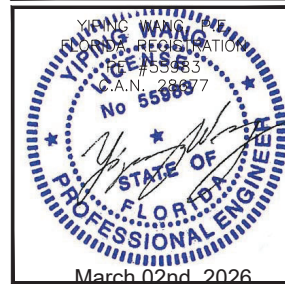
R5
 83
 42
 17
 45
 03 CONT.
 69
 70
 48
 46
 54
 51
 2 1/8" G.B.
 1 13/16" S.W.
 1/4"
 67
 16
 2"
 1 13/16"
 7000-120
 7000-118
 7000-122
 7000-146
 03 CONT.
 42
 19
 39 REFER TO SHEETS 6 & 7 FOR REINFORCEMENT TYPE, LENGTH & LOCATION
 81 OR 82 REFER TO SHEET 30 FOR ANCHOR, STEEL REINFORCING & CLIP ANCHOR OPTION REQUIRED
 1 1/2"
 1"
 1/4"
 2 1/2"
 14 5/16"
 3 5/8"
 29 9/16"
 6" MIN.
 M20 GRADE 8.8 HALFEN TEE BOLT W/ WASHERS & NUTS (TYP.)
 18"
 12"
 7"
 EQ
 EQ
 EQ
 EQ
 EQ
 EQ
 (6) #4 REINFORCING BAR
 G2 ANCHOR TYPE G2
 18"
 15 1/16" VAR.
 1 13/16"

M20 GRADE 8.8 HALFEN
TEE BOLT W/ WASHERS &
NUTS (TYP.)

 TYPE G1, G2

37
34

FL#28879.1



DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

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SHEET 34 OF 38

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

G2A ANCHOR TYPE G2

(6) #4 REINFORCING BAR

M20 GRADE 8.8 HALFEN
TEE BOLT W/ WASHERS &
NUTS (TYP.)

G1A ANCHOR TYPE G1

(3) I ANCHORS

OUTSIDE CORNER 86.9°
ANCHOR TYPE G1, G2

REFER TO SHEET 8B
FOR REINFORCEMENT
TYPE, LENGTH & LOCATION

81 OR 82 REFER TO SHEET 30A FOR
ANCHOR & CLIP ANCHOR
OPTION REQUIRED

VAR.

FL#28

FLORIDA PROFESSIONAL ENGINEER No. 1000000000

G1A ANCHOR TYPE G1

OUTSIDE CORNER 86.90° MULL.
ANCHOR TYPE G1, G2

TYPE G1, G2

—(6) #4 REINFORCING BAR

M20 GRADE 8.8 HALFEN
TEE BOLT W/ WASHERS &
NUTS (TYP.)

CONT. (03)

00 REFER TO SHEET 8B
FOR REINFORCEMENT
TYPE, LENGTH & LOCATION

81 OR 82 REFER TO SHEET 30.
ANCHOR & CLIP AND
OPTION REQUIRED

81 OR 82 REFER TO SHEET 30A FOR
ANCHOR & CLIP ANCHOR
OPTION REQUIRED

FLORIDA APPROVAL:
FL#28879.1

YIPING WANG
FLORIDA REGISTRATION
RE # 55983
C.A.N. 28677
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
March 02nd, 2026

REVISIONS		
NO.	DATE	DESCRIPTION
R3	03.02.2026	REVISION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS



12781 MIRAMAR PARKWAY #301 P: 305.588.5224
MIRAMAR FL33027

www.MCYEngineering.com MCY@mcyengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

TECNOGLASS, LLC.

5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965

DATE	03.02.2026
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY19-010

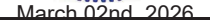
DRAWING NO.	
AD19-07	

SHEET34AOF 38	
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[illegible]

37B
34B

FL#28879.1



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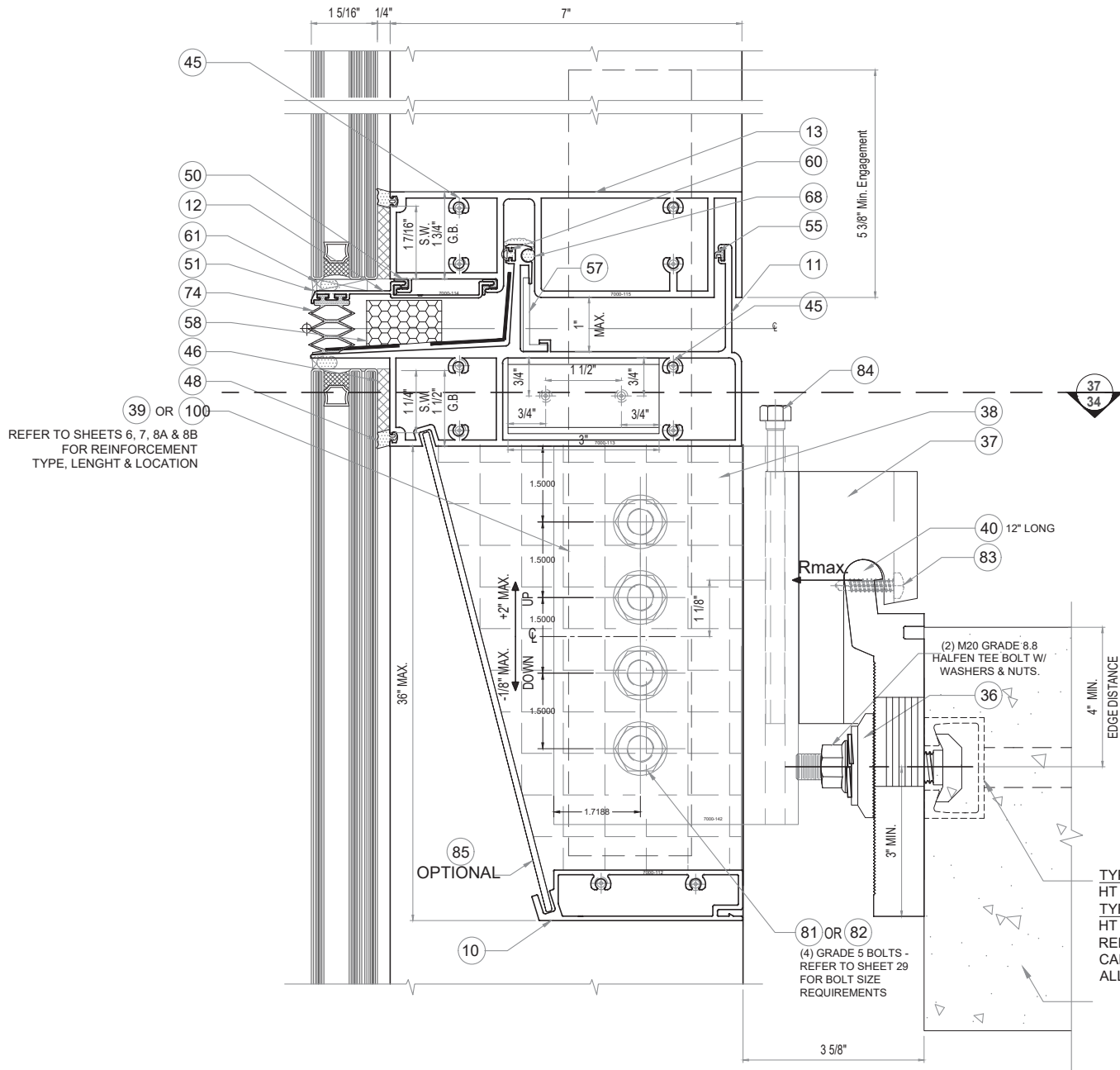
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DRAWING NO.
AD19-07

SHEET34BOF 38



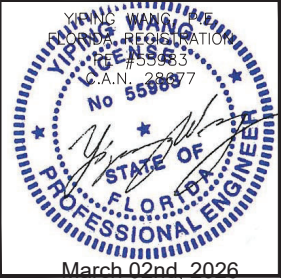
REFER TO SHEETS 6, 7, 8A & 8B
FOR REINFORCEMENT
TYPE, LENGHT & LOCATION

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
CARBON STEEL
ALL HOT DIP GALVANIZED FINISH

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

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

FLORIDA APPROVAL:
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DRAWING NO.
AD19-07

SHEET 35 OF 38

REVISIONS		
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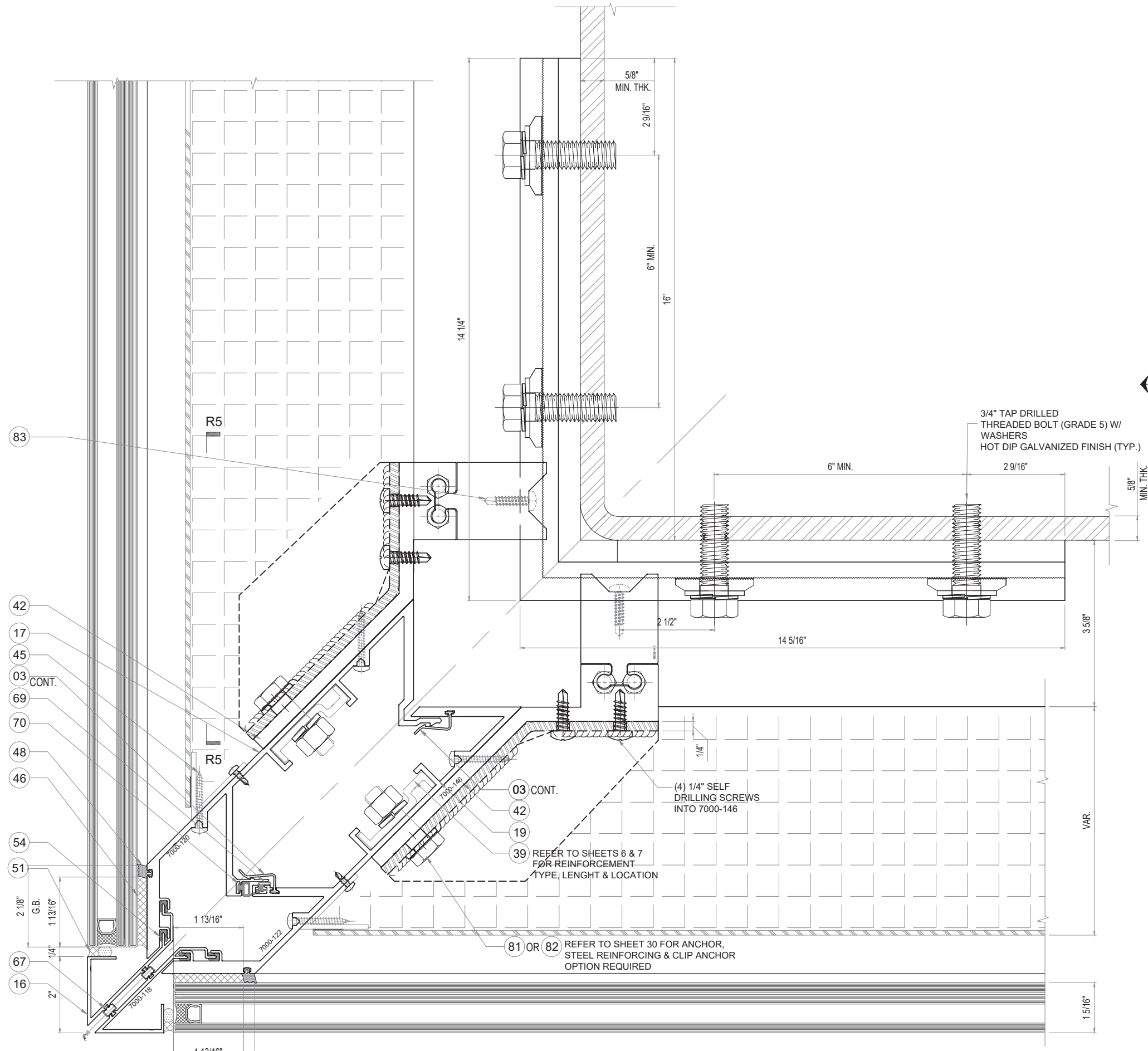
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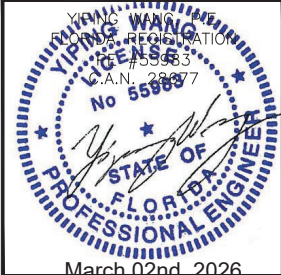
5220 NW 72nd AVENUE, BAY NO. 4 MIAMI, FL 33166
Phone (305) 342-0890 Fax (786) 513-3965



39
36

OUTSIDE CORNER MULL.
ANCHOR TYPE H

FLORIDA APPROVAL:
FL#28879.1



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AD19-07

SHEET 36 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL LMI / SMI

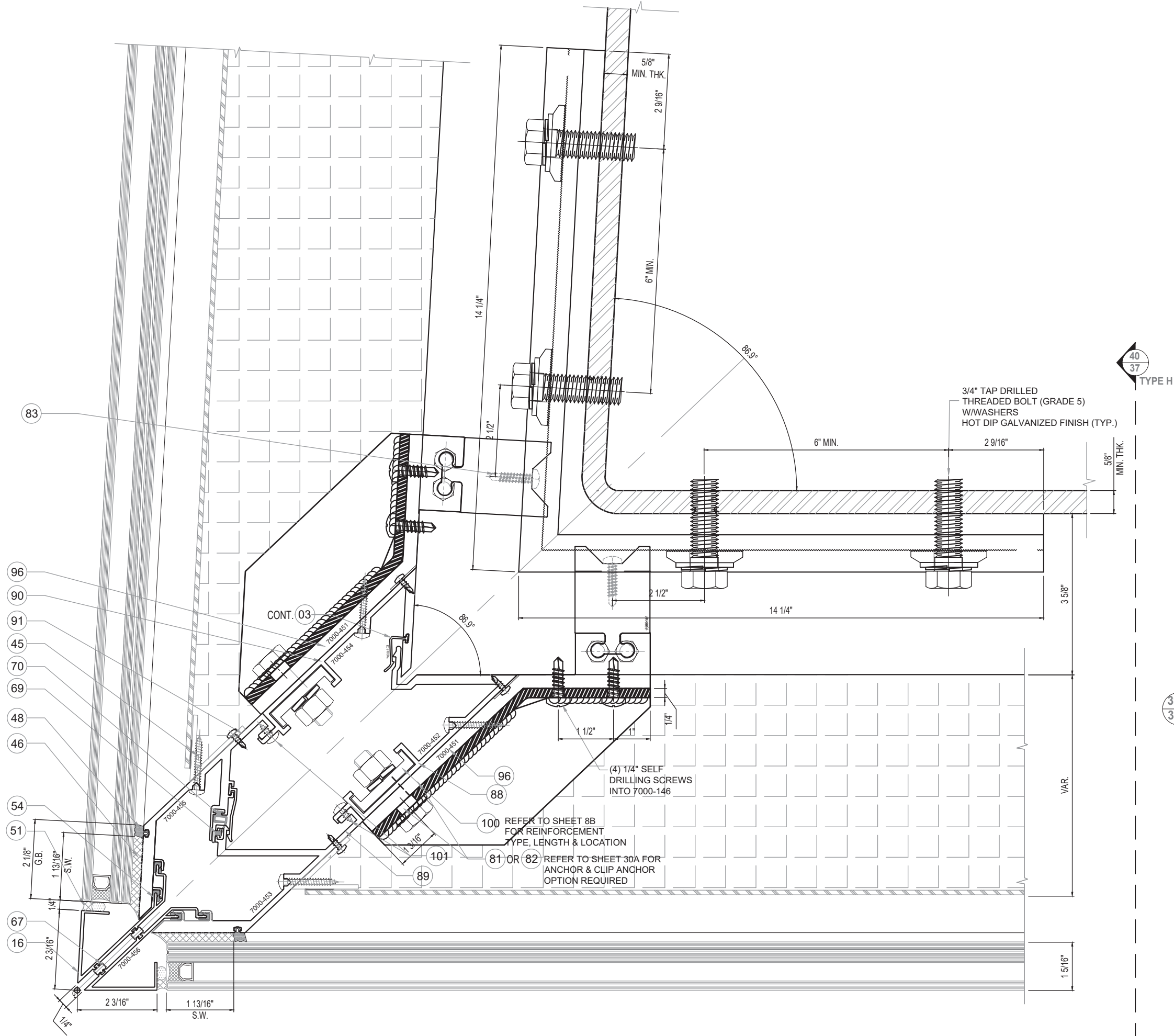
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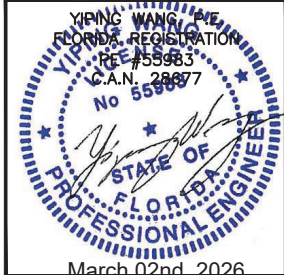
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39A
36A

OUTSIDE CORNER 86.90° MULL.
ANCHOR TYPE H

FLORIDA APPROVAL:
FL#28879.1



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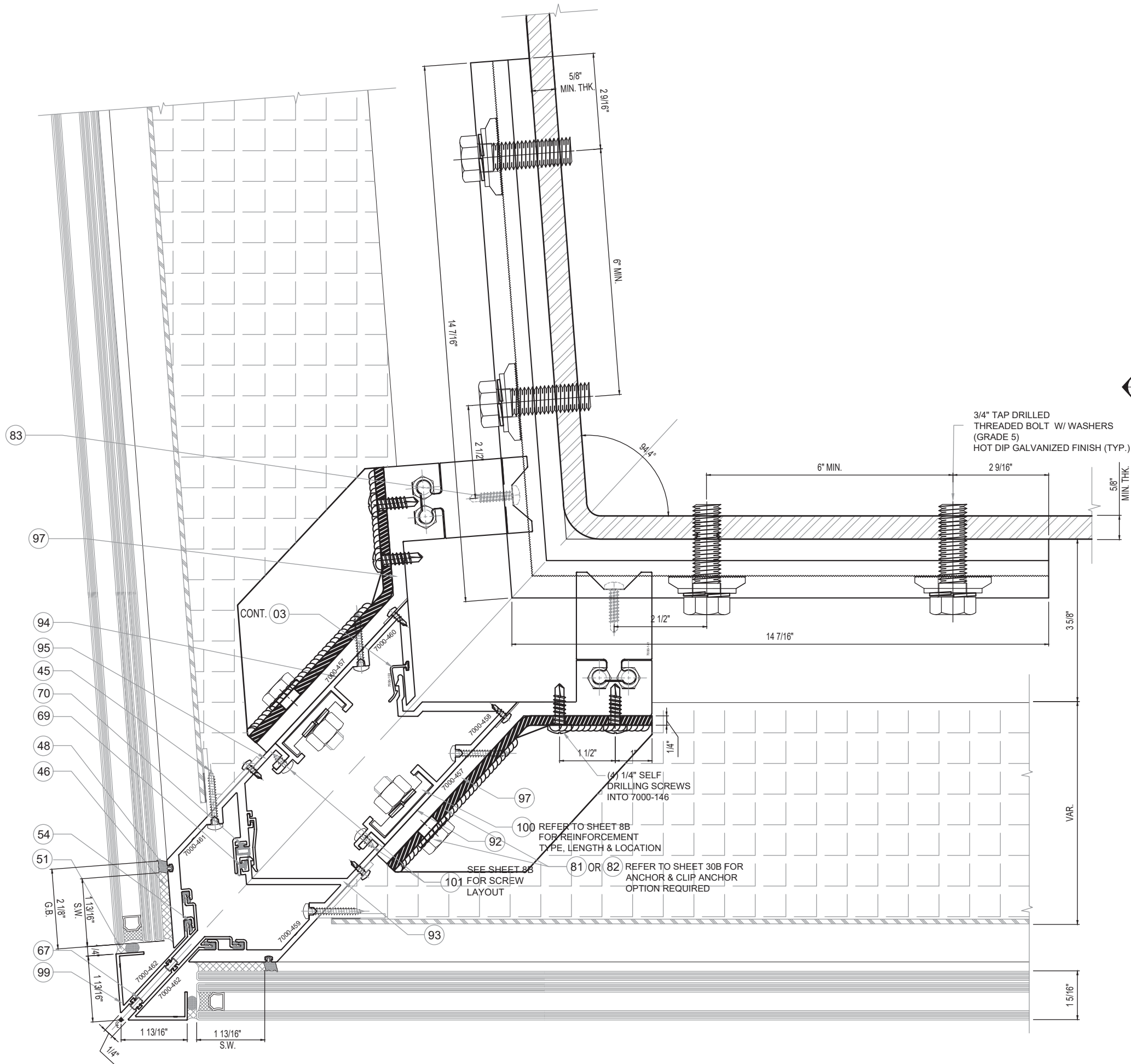
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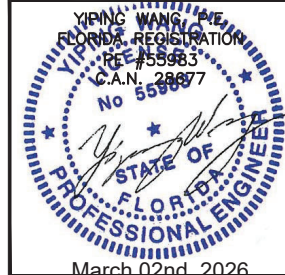
DATE	03.02.2026
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DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD19-07	
SHEET 36A OF 38	



40
37
TYPE H

39B
36B
OUTSIDE CORNER 94.40° MULL.
ANCHOR TYPE H

FLORIDA APPROVAL:
FL#28879.1



DATE	03.02.2026
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DRAWING NO.	AD19-07
SHEET	36BOF 38

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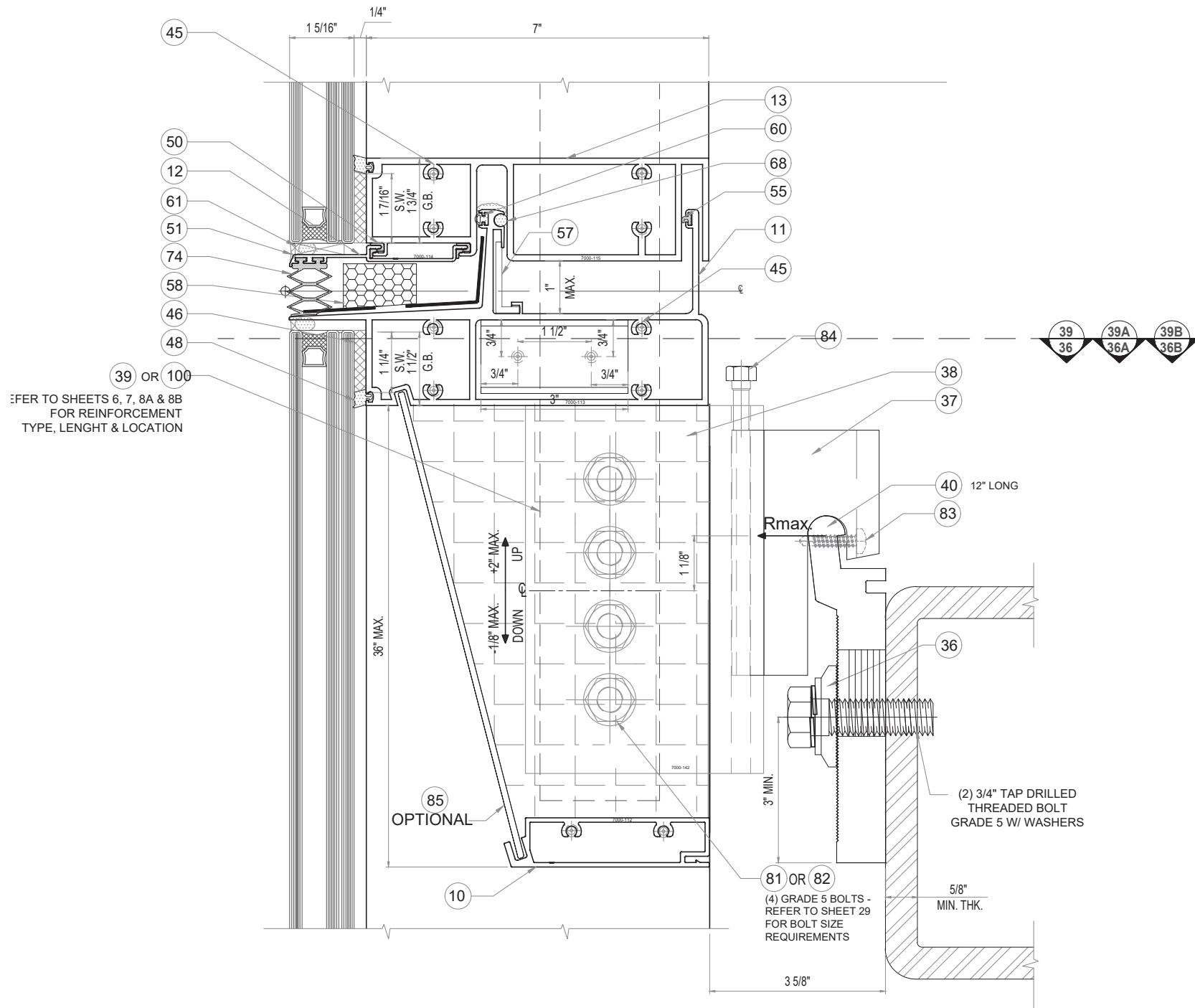
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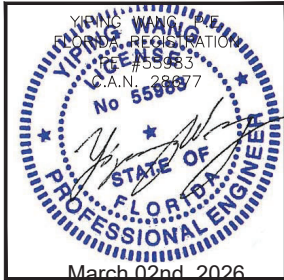
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40
37 CORNER EXP. JOINT - ANCHOR TYPE H
SECTION

FLORIDA APPROVAL:
FL#28879.1

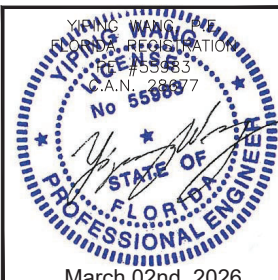


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PROJECT	MCY19-010
DRAWING NO.	AD19-07
SHEET	37 OF 38

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NO.	DATE	DESCRIPTION	REVISION
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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#28879.1 				
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						

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SHEET 38 OF 38	