



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

Tecnoglass, LLC
3550 NW 49 Street
Miami, FL 33142

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "7000" Aluminum Curtain Wall System – S.M.I.

APPROVAL DOCUMENT: Drawing No. **AD12-65**, titled "Series 7000 Aluminum Curtain Wall - SMI", sheets 01, 02, 03, 04, 05, 05A, 05B, 06, 07, 08, 09, 10, 10A, 11 and 12 through 38 of 38, dated 01/18/23, with revision #3 dated 01/18/23, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia S.A.**, series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

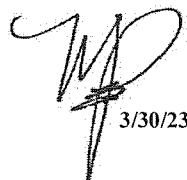
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. **18-0403.08** and consists of this page 1, evidence pages E-1, E-2, and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




3/30/23

NOA No. 23-0208.02
Expiration Date: June 06, 2028
Approval Date: April 06, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 12-1126.05)
2. Drawing No. **AD12-65**, titled "Series 7000 Aluminum Curtain Wall - SMI", sheets 01, 02, 03, 04, 05, 05A, 05B, 06, 07, 08, 09, 10, 10A, 11 and 12 through 38 of 38, dated 07/08/16, with revision #2 dated 03/30/18, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
(Submitted under NOA No. 18-0403.08)

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Dynamic Pressure Water Resistance Test, per ASTM E 331 and per FBC, TAS 202-94
 - 5) Small Missile Impact Test per FBC, TAS 201-94
 - 6) Large Missile Impact Test per FBC, TAS 201-94
 - 7) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 8) Drop Load Test, per CPCS 16 CFR 1201 (Cat 11)
 - 9) Safety Performance Test, (class A) per ANSI Z97.1along with marked-up drawings and installation diagram of a series 7000 aluminum curtain wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7147**, dated 02/04/13, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 12-1126.05)

C. CALCULATIONS

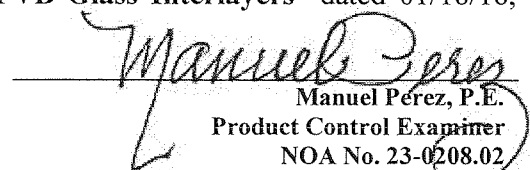
1. Anchor verification calculations and structural analysis complying with **FBC 5th Edition (2014)**, dated 06/11/15, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
(Submitted under NOA No. 15-0625.06)
2. Glazing complies with **ASTM E 1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/18/18, expiring on 07/08/19.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 23-0208.02
Expiration Date: June 06, 2028
Approval Date: April 06, 2023

Tecnoglass, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, and of no financial interest, dated March 30, 2018, issued by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
(Submitted under NOA No. 18-0403.08)
2. Asset purchase agreement dated 02/09/15, signed by Mr. Massimo Valentini and Mr. Andres Chamorro.
(Submitted under NOA No. 15-0625.06)
3. Letter from owners of existing NOA stating that they have sold all assets to the applicant, that they no longer manufacture the product and relinquish their rights to the current NOA No. **12-1126.05**, dated 02/09/15, signed by Mr. Massimo Valentini.
(Submitted under NOA No. 15-0625.06)
4. Laboratory compliance letter for Test Report No. **FTL-7147**, issued by Fenestration Testing Laboratory, Inc., dated 02/04/13, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 12-1126.05)
5. Proposal issued by Product Control, dated 7/30/12, signed by Jaime D. Gascon, P.E.
(Submitted under NOA No. 12-1126.05)

G. OTHERS

1. Notice of Acceptance No. **15-0625.06**, issued to Tecnoglass, LLC, for their Series "7000" Aluminum Curtain Wall System – S.M.I., approved on 12/01/16 and expiring on 06/06/18.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0208.02
Expiration Date: June 06, 2028
Approval Date: April 06, 2023

Tecnoglass, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **AD12-65**, titled "Series 7000 Aluminum Curtain Wall - SMI", sheets 01, 02, 03, 04, 05, 05A, 05B, 06, 07, 08, 09, 10, 10A, 11 and 12 through 38 of 38, dated 01/18/23, with revision #3 dated 01/18/23, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

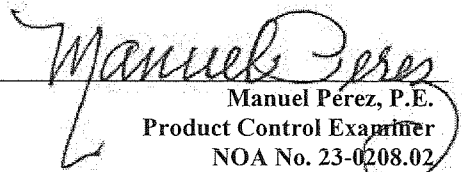
1. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 11/19/20, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, and of no financial interest, dated February 8, 2023, issued by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

G. OTHERS

1. Notice of Acceptance No. **18-0403.08** issued to Tecnoglass, LLC, for their Series "7000" Aluminum Curtain Wall System – S.M.I., approved on 08/30/18 and expiring on 06/06/23.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0208.02
Expiration Date: June 06, 2028
Approval Date: April 06, 2023

SERIES 7000 CURTAIN WALL (SMI)

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36	OUTSIDE CORNER MULL. ANCHOR TYPE D
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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:
- 1- 1 5/16" 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
- 2- 1 5/16" 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 LARGE/SMALL MISSILE IMPACT. SHUTTERS NOT REQUIRED.

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) 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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY

YANG WANG
Professional Engineer
No. 55983
FLORIDA
February 08th 2023

DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET 01	OF 38

REVISIONS

NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL

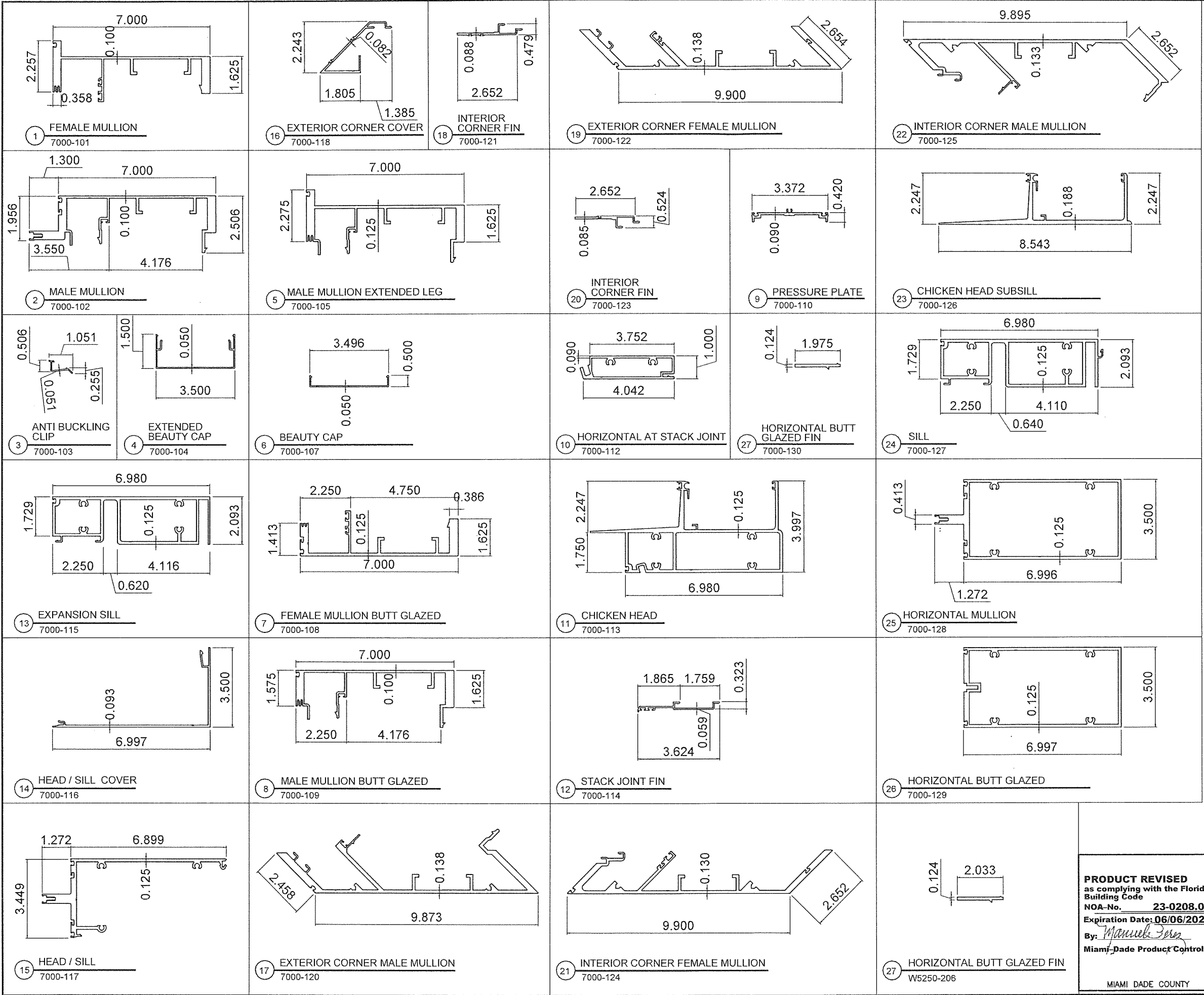
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARK WAY #301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

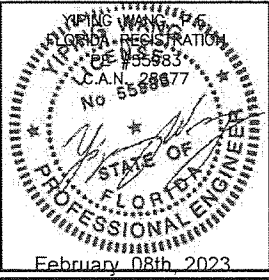
TECNOGLASS, LLC.

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



PRODUCT REVISED
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Miami-Dade Product Control

MIAMI DADE COUNTY



DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	02 OF 38

REVISIONS

NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

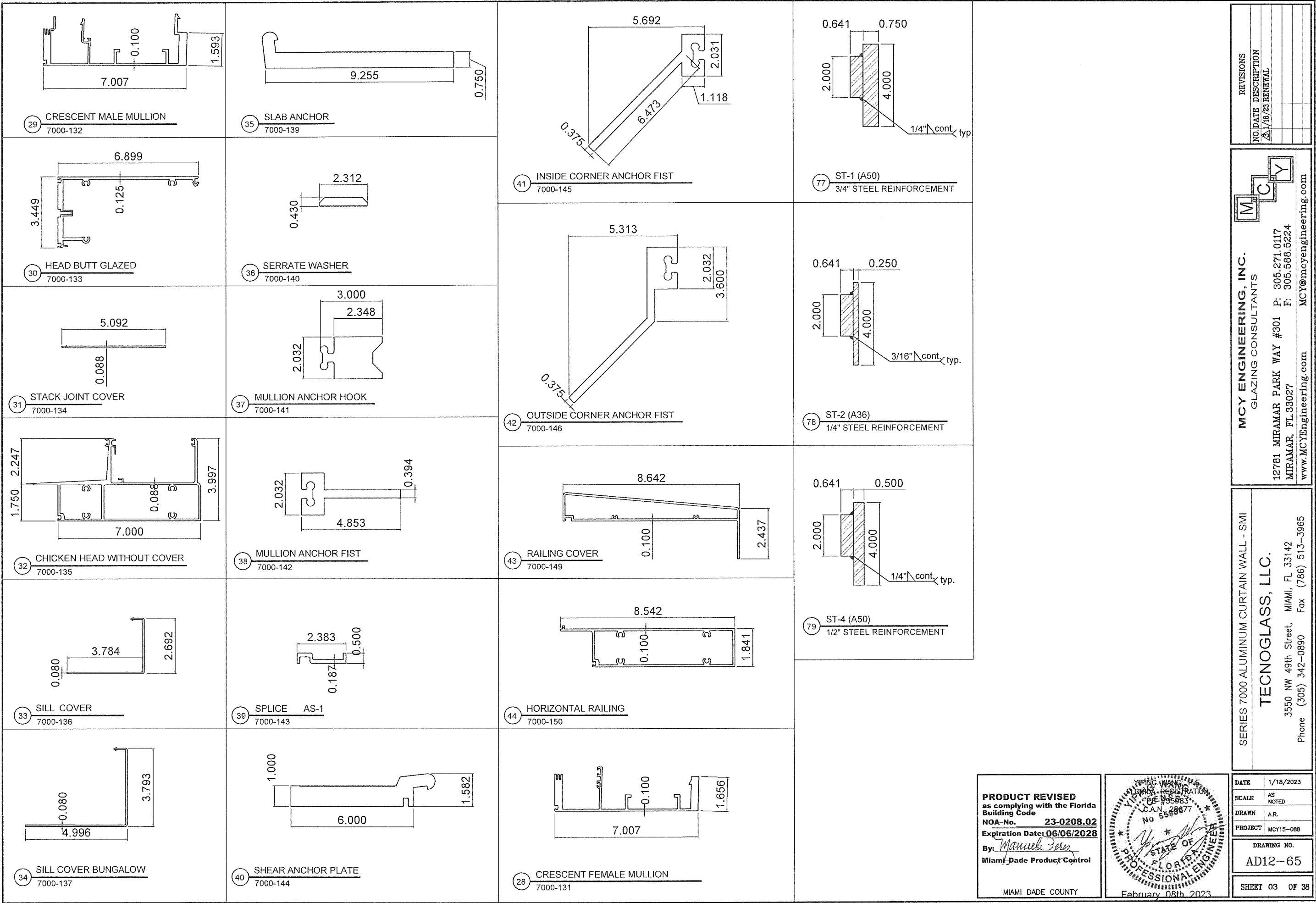
MCY

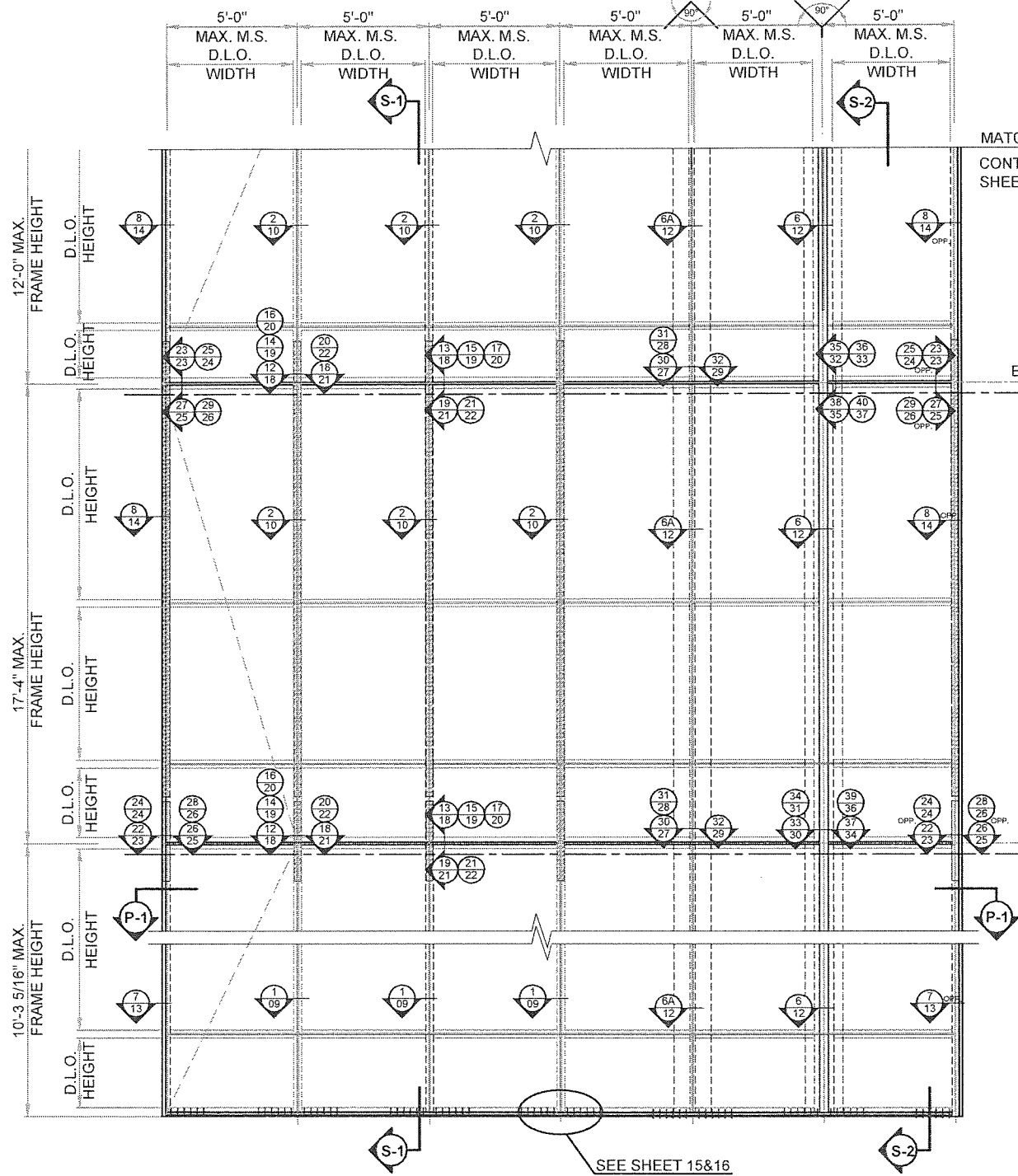
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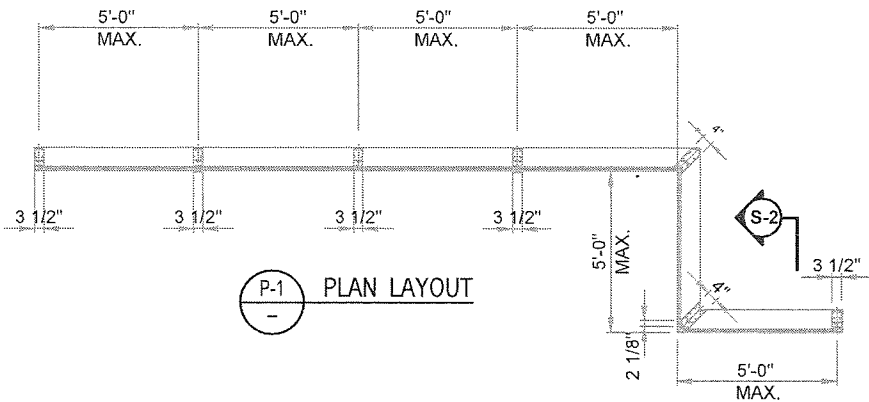
TECNOGLASS, LLC.

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





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



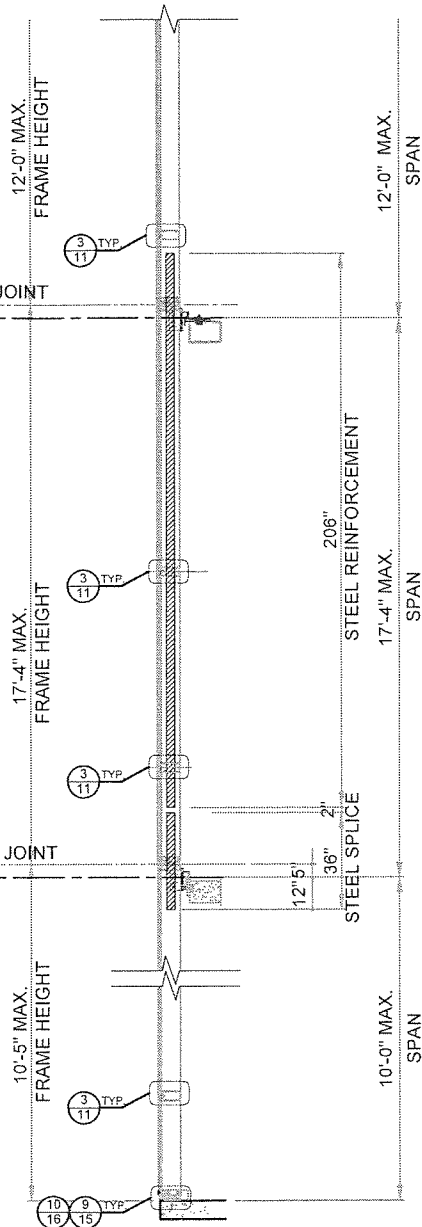
DESIGN LOAD V.S. MULLION
SPAN AND REINFORCEMENT
REFER TO SHEET 06 AND 07.

MATCH LINE I
CONTINUOUS ON
SHEET 05 OF 41

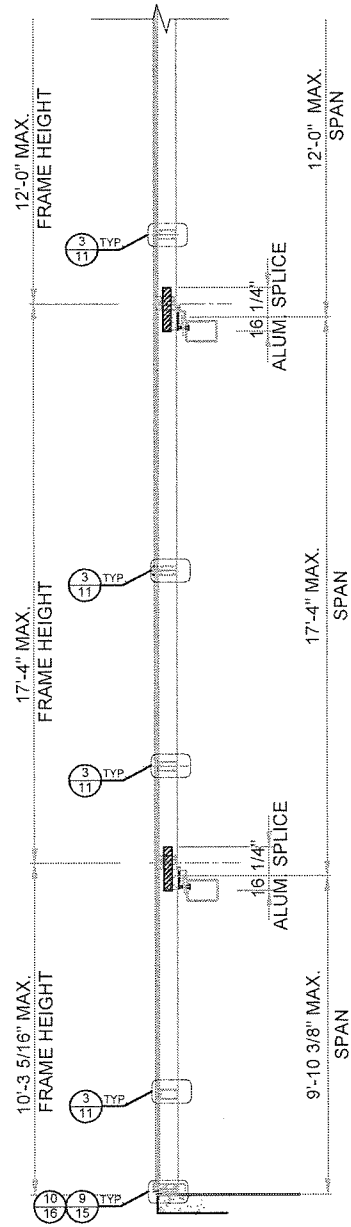
EXPANSION JOINT

EXPANSION JOINT

S-1 SECTION 1

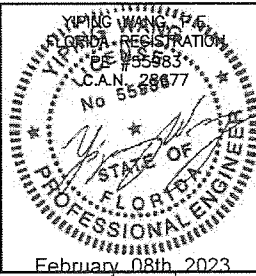


S-2 SECTION 2



- 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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0208.02
Expiration Date: 06/06/2028
By: *Manuel Perez*
Miami-Dade Product Control



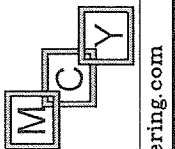
DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 04 OF 38

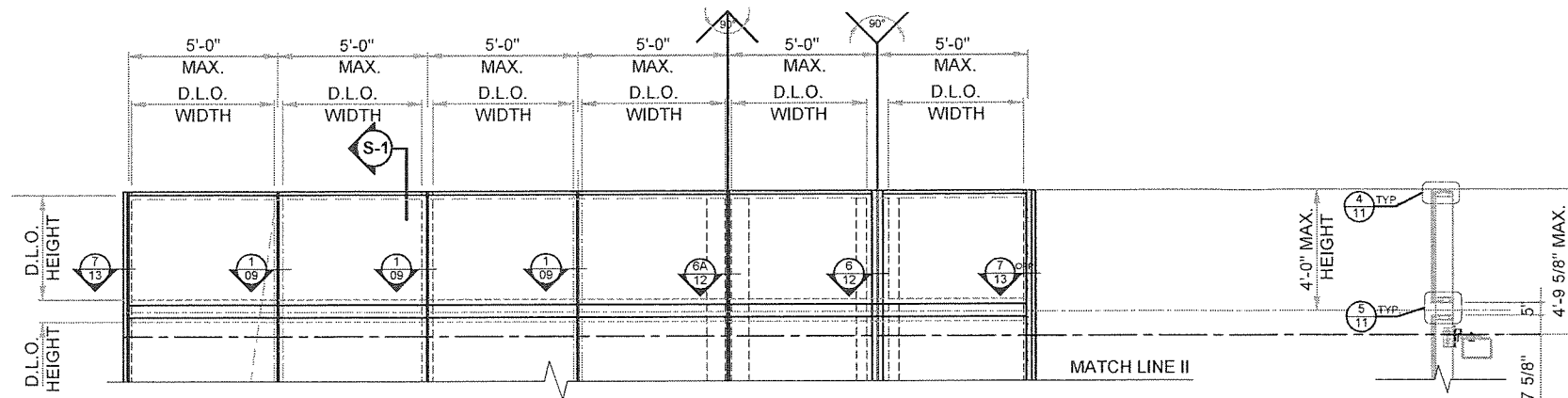
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
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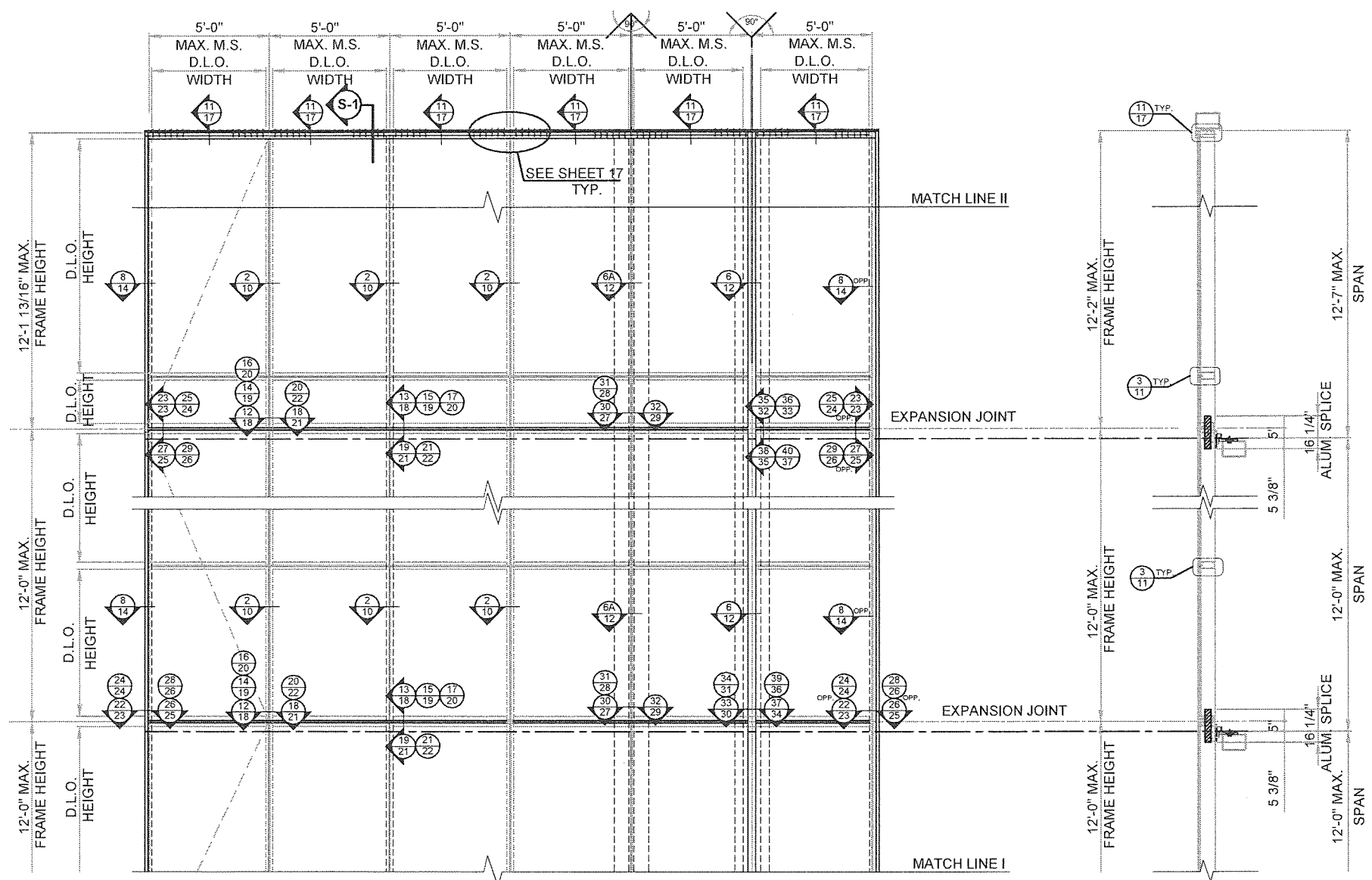


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REVISIONS
NO. DATE DESCRIPTION
1 1/18/23 RENEWAL



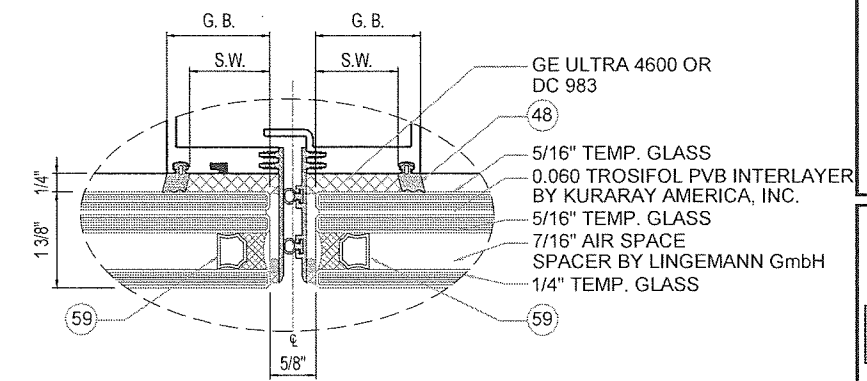
TOP CURTAIN WALL CANTILEVER OPTION



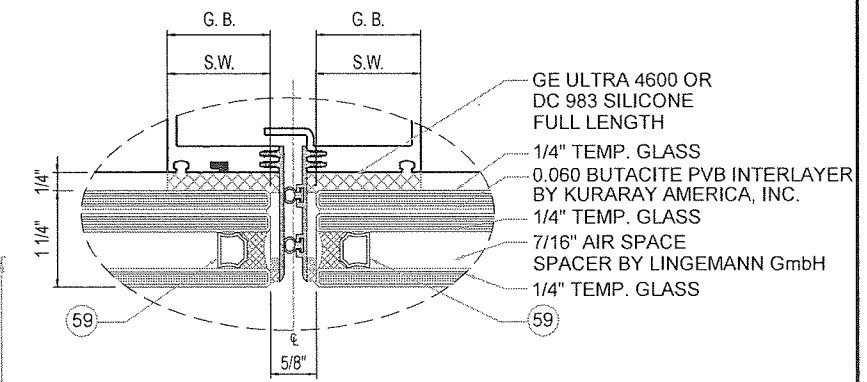
MULTIPLE SPAN ELEVATION - CURTAIN WALL

S-1 SECTION 1

GLAZING OPTIONS



GLASS TYPE B
SILICONE WIDTH SEE CHART



GLASS TYPE C
SILICONE WIDTH SEE CHART

NOTE = SILICONE WIDTH OPTIONS ARE INTERCHANGEABLE FOR BOTH GLASS TYPE B AND TYPE C

DESIGN LOAD Pd (PSF) DUE TO SILICONE			
MULLION SPACING (M.S.)	MIN. SILICONE WIDTH (S.W.)		
	1.1875 "	1.4375 "	1.875"
5'-0"	114 PSF	140 PSF	187 PSF
4'-6"	126.7 PSF	140 PSF	187 PSF
4'-0"	140 PSF	140 PSF	187 PSF

	GLASS TYPE "C"	GLASS TYPE "B"
MAX. GLASS AREA **	45.9 (FT ²)	50.2 (FT ²)
MAX. DESIGN LOAD (PSF)	+ 100 PSF - 187 PSF	+ 100 PSF - 187 PSF

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

G.B. - GLASS BITE

GLASS CAPACITY BASED ON ASTM E 1300-09

PRODUCT REVISED
as complying with the Florida Building Code
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Miami-Dade Product Control

MIAMI DADE COUNTY

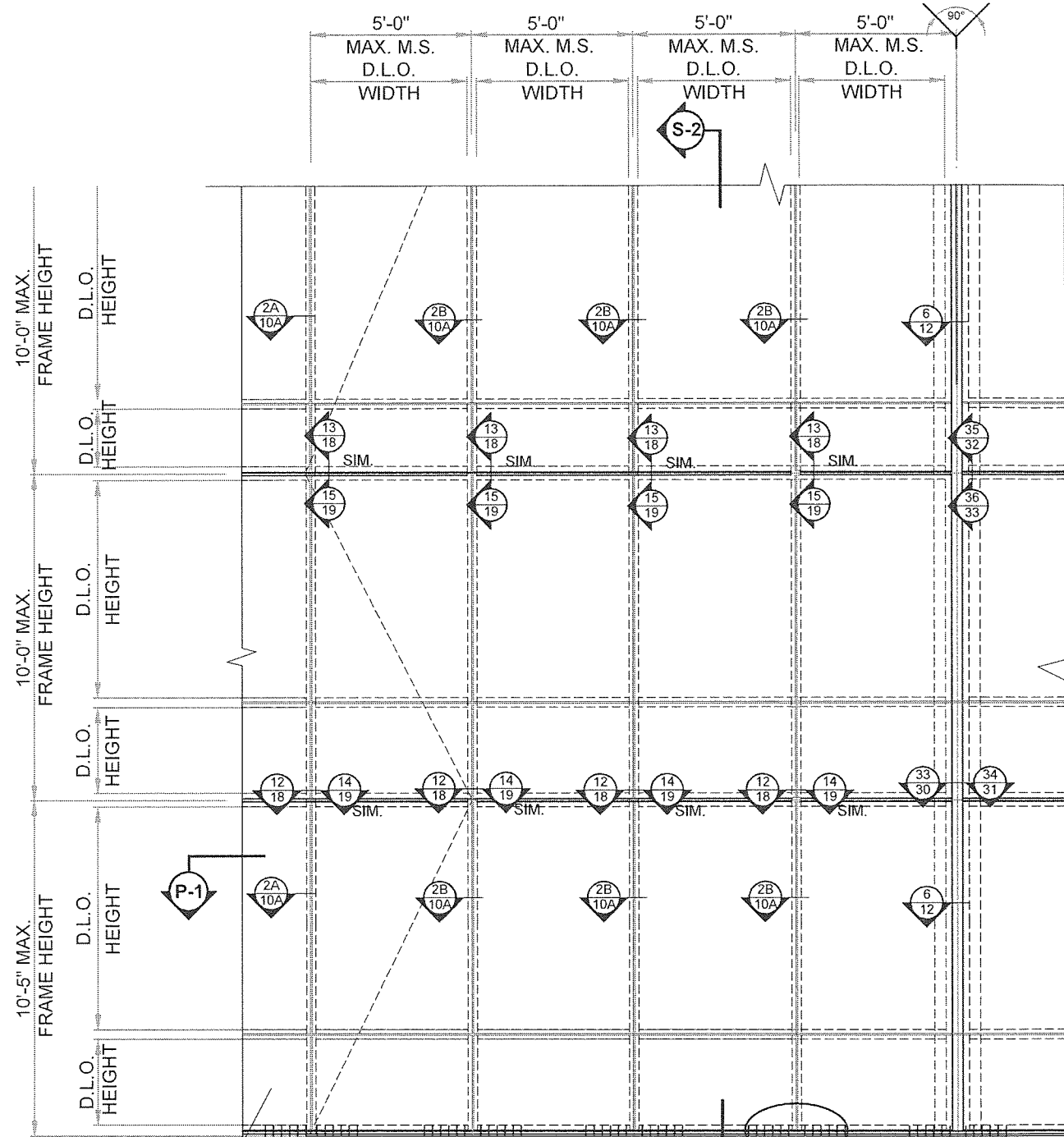
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 559877
February 08th, 2023

DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088
DRAWING NO. AD12-65
SHEET 05 OF 38

REVISIONS
NO. DATE DESCRIPTION
1 1/18/23 RENEWAL

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TECNOGLASS, LLC.
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MATCH LINE III
CONTINUOUS ON
SHEET 05B OF 41

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

EXPANSION JOINT

EXPANSION JOINT

REFER TO ELEVATION ON
SHEET 4 & 5 FOR
ADDITIONAL INFORMATION

REFER TO ELEVATION ON
SHEET 4 & 5 FOR
ADDITIONAL INFORMATION

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

5'-0" MAX. 5'-0" MAX. 5'-0" MAX. 5'-0" MAX.

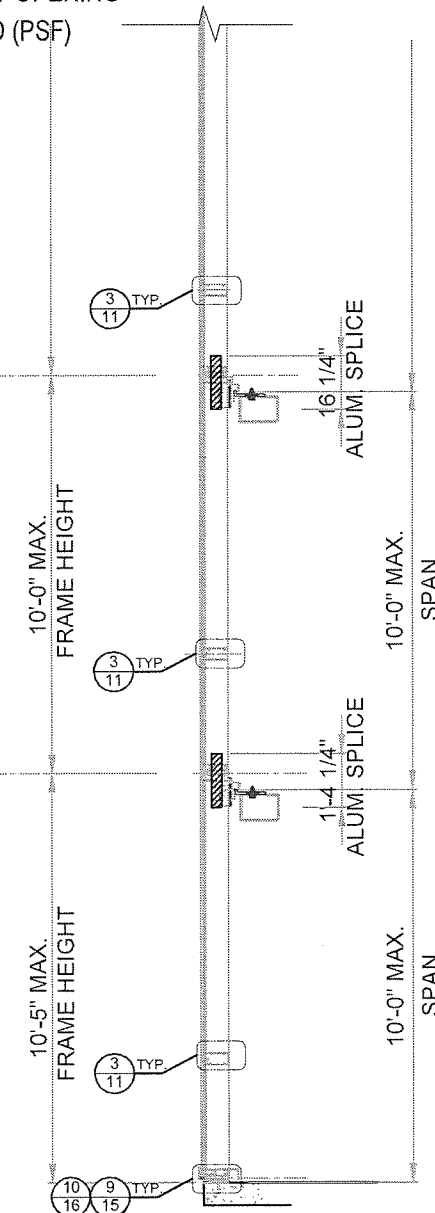
DESIGN LOAD (PSF)	
POSITIVE	NEGATIVE
PSF	PSF
+100	-140

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



PLAN LAYOUT

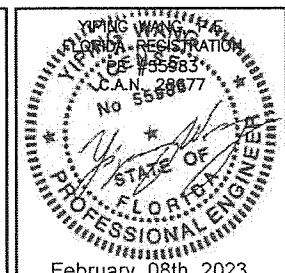
SEE SHEET 15&16
TYP.



S-2 SECTION 2

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Jerez*
Miami-Dade Product Control

MIAMI DADE COUNTY



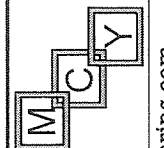
DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY115-088

DRAWING NO.
AD12-65

SHEET 05A OF 38

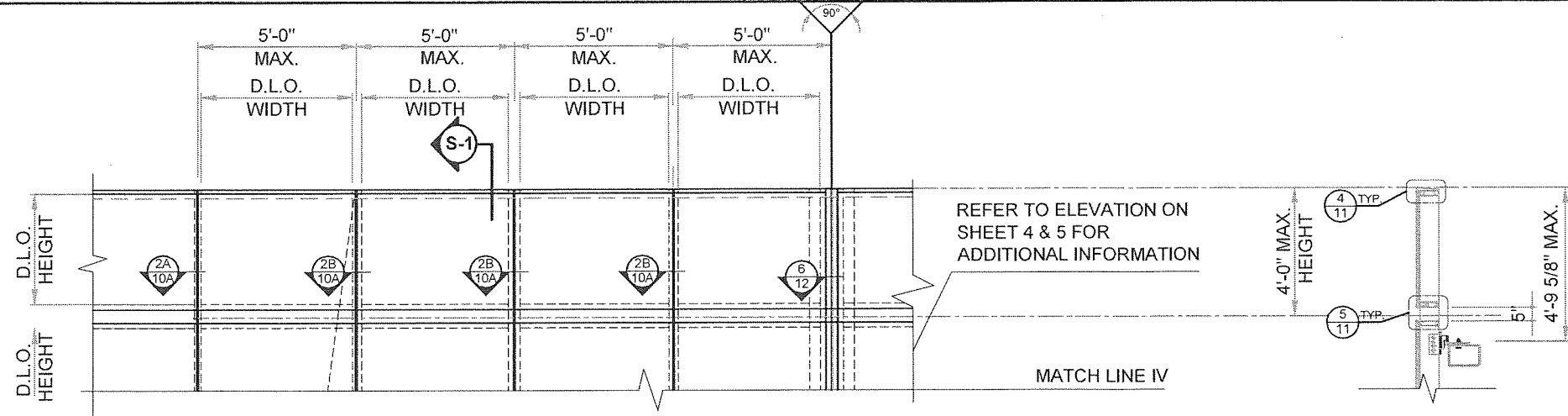
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

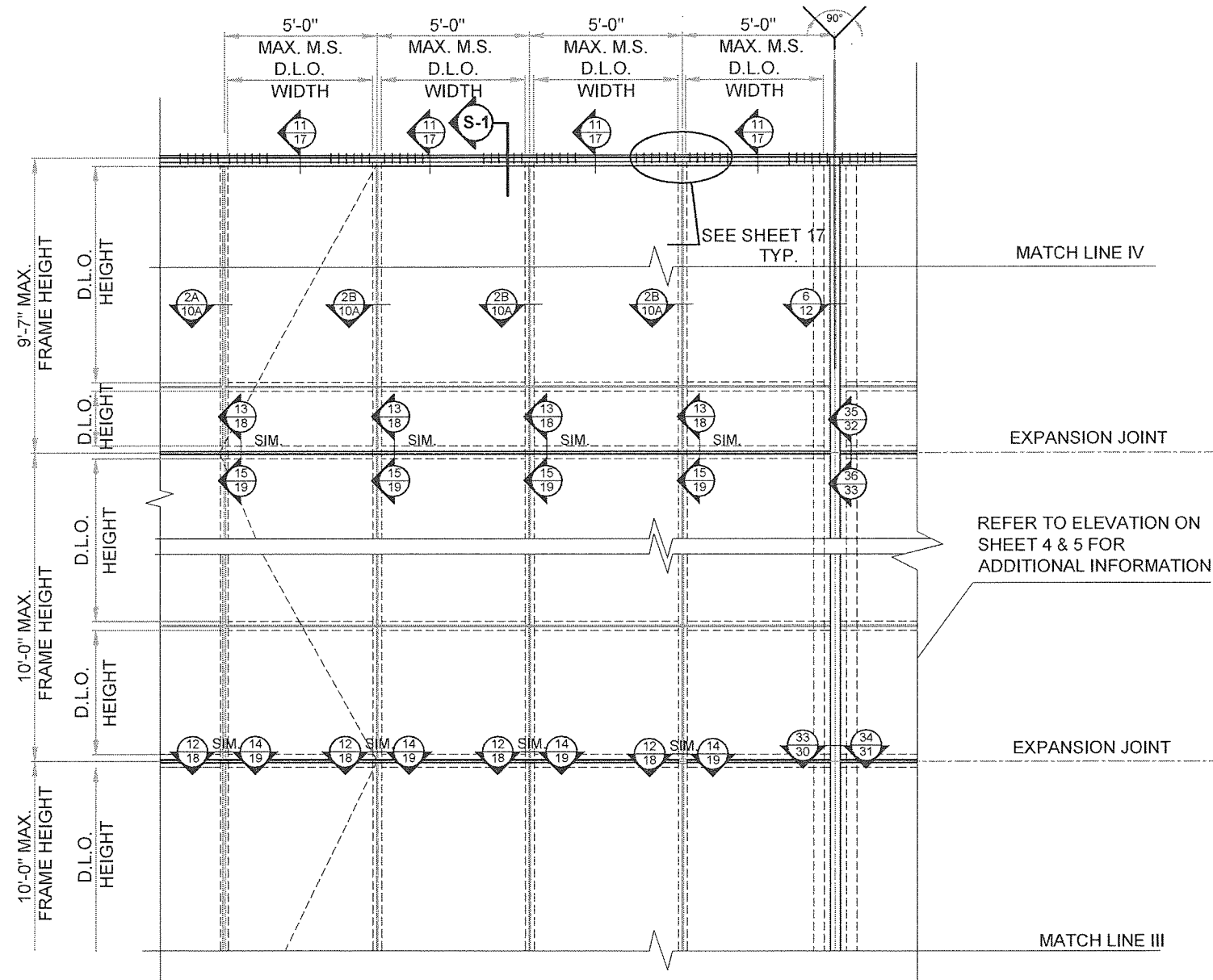


12781 MIRAMAR PARK WAY #301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224
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REVISIONS	NO.	DATE	DESCRIPTION
	1	1/18/23	RENEWAL



TOP CURTAIN WALL CANTILEVER OPTION

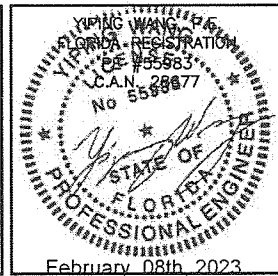


MULTIPLE SPAN ELEVATION - HEAVY DUTY SYSTEM

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Ferraz*
Miami-Dade Product Control



DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	05B OF 38

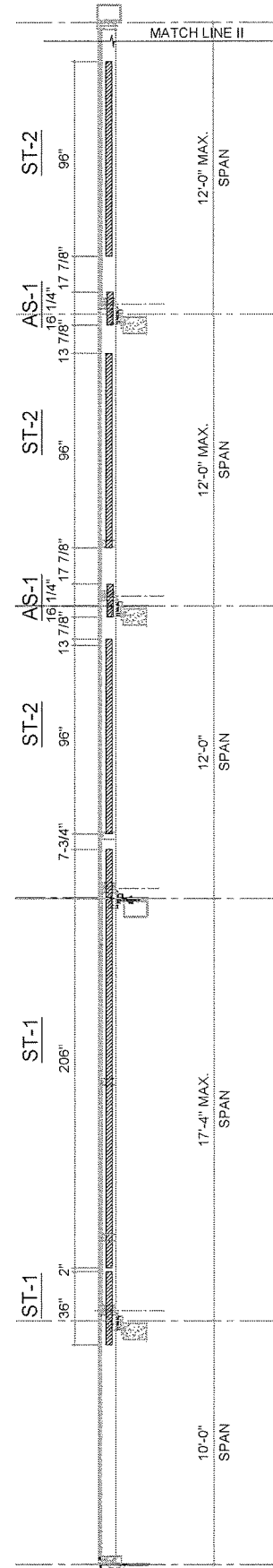
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
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www.MCYEngineering.com MCY@mcyengineering.com

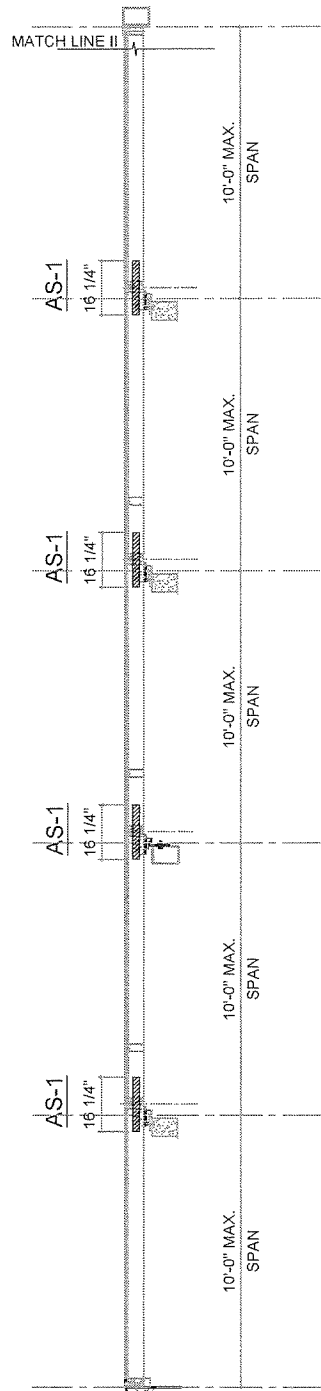
REVISIONS	NO.	DATE	DESCRIPTION
	1	1/18/23	RENEWAL

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



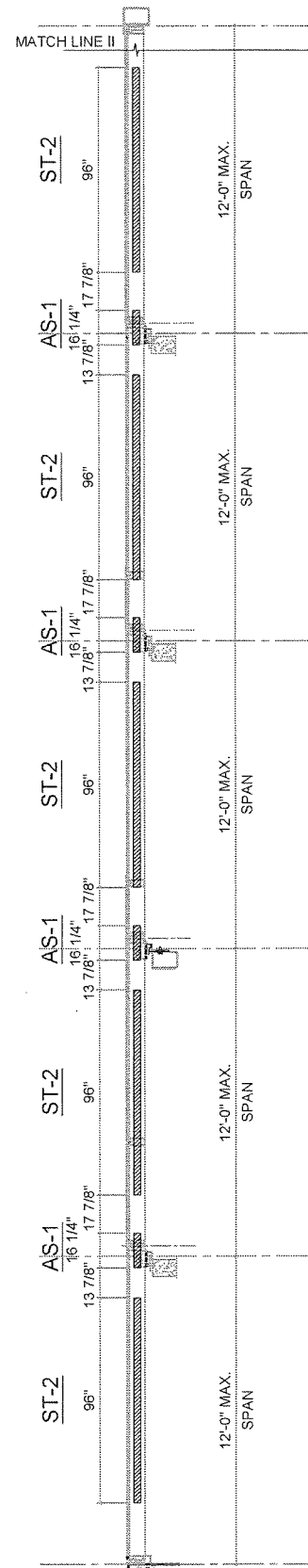
CASE 1

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



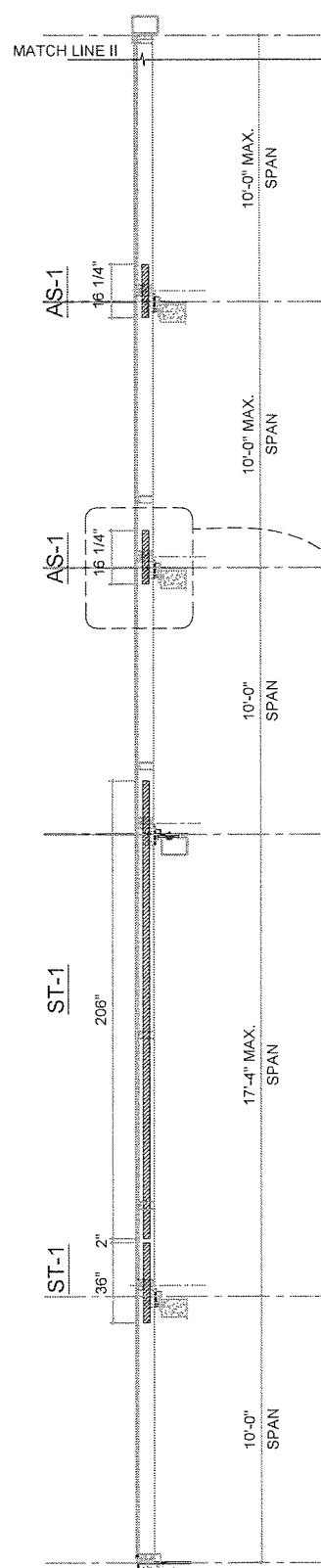
CASE 2

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



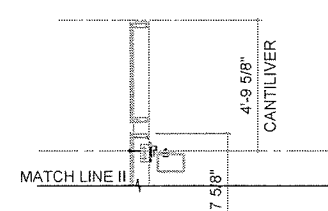
CASE 3

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

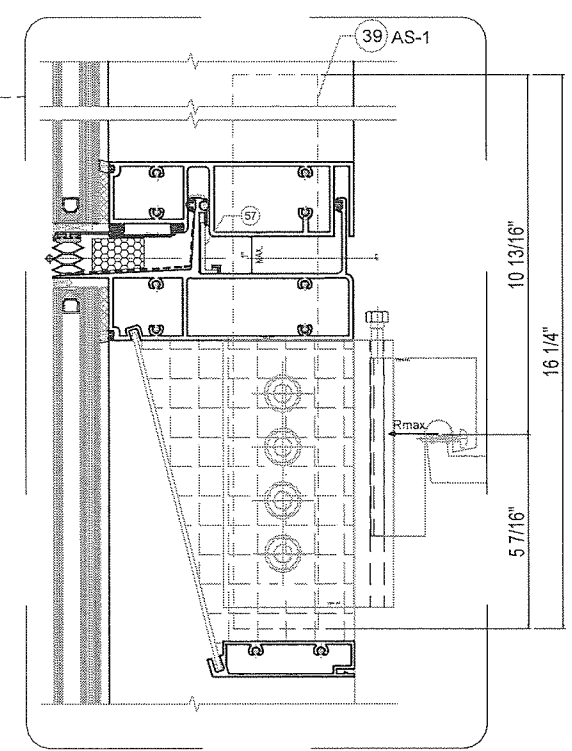


CASE 4

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

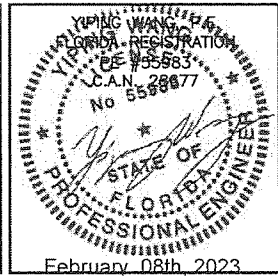


CASE 1 THRU CASE 6
W/ CANTILEVER
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



SPLICE DETAIL TYPICAL
AS-1

PRODUCT REVISED
as complying with the Florida
Building Code
NOA No. 23-0208.02
Expiration Date: 06/06/2028
By: *Manuel Ferrer*
Miami-Dade Product Control
MIAMI DADE COUNTY



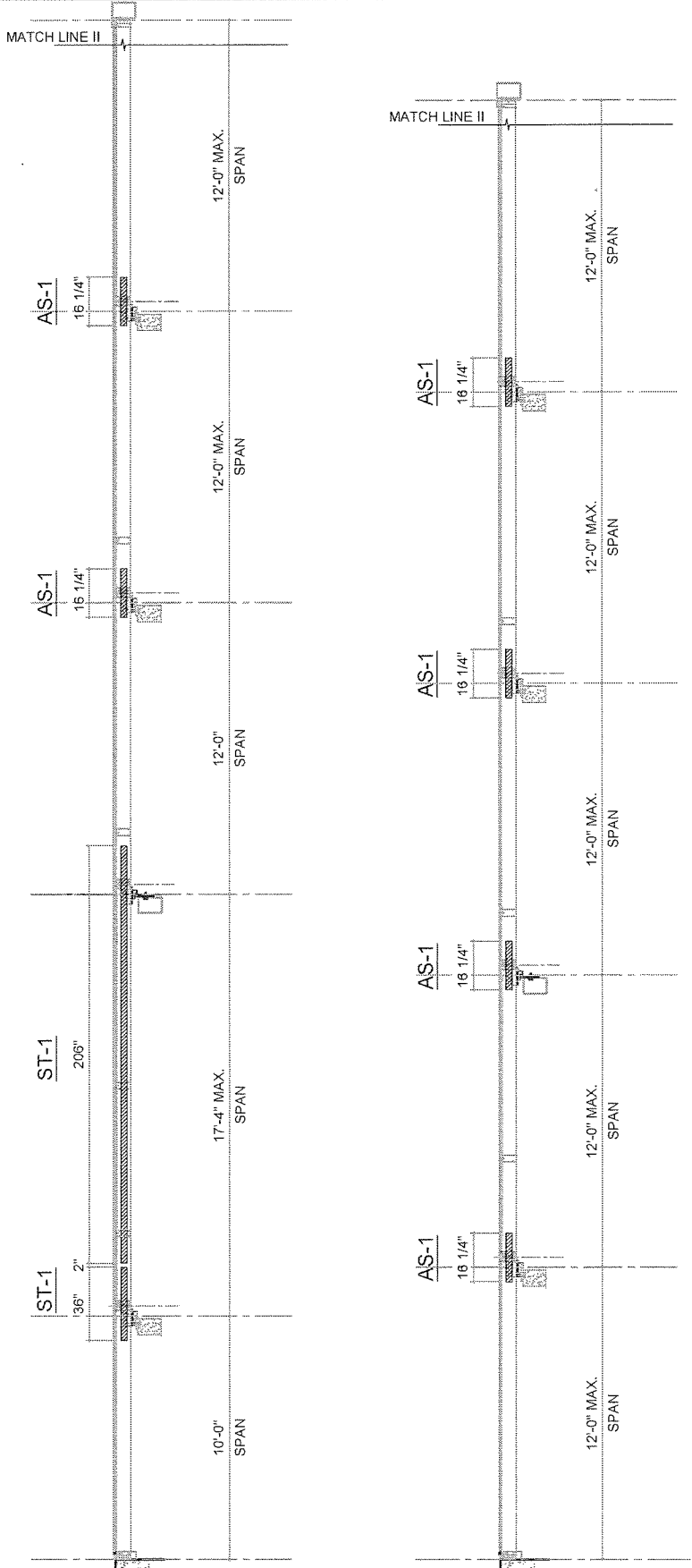
DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	06 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL - SMI
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REVISIONS	NO.	DATE	DESCRIPTION
	1	1/18/23	RENEWAL

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



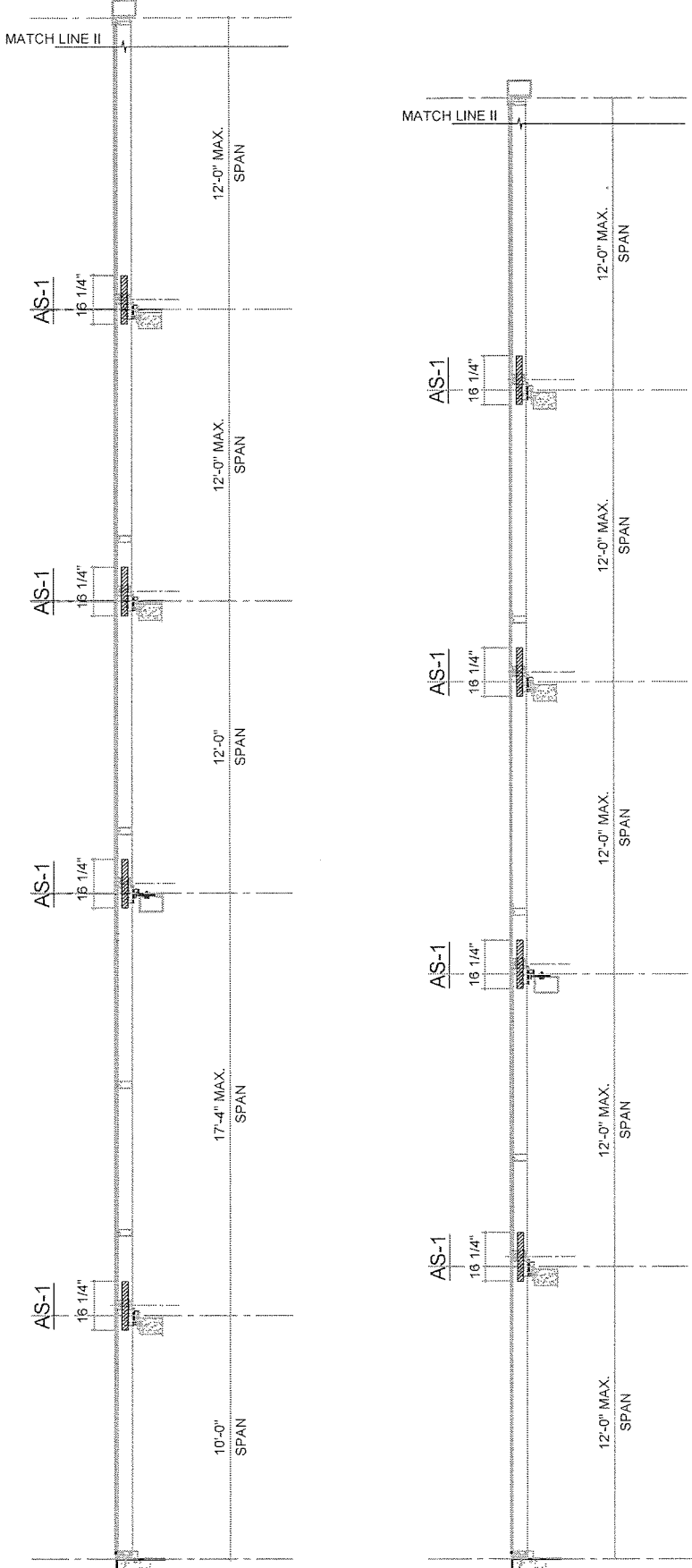
CASE 1.2

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

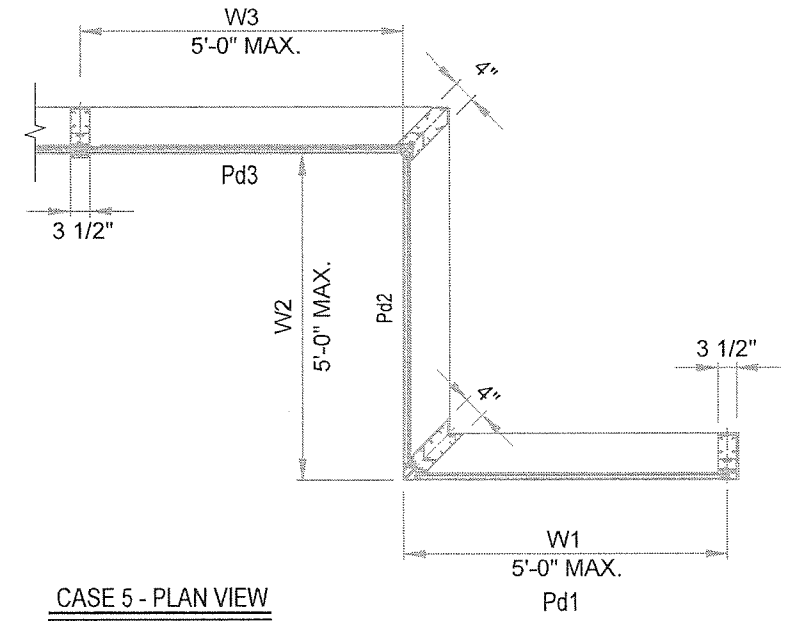


CASE 5
INSIDE / OUTSIDE
CORNER MULLION.
 $W1*PD1 = W2*PD2 = W3*PD3$

MAX. DESIGN
LOAD
+ 100 PSF
- 140 PSF

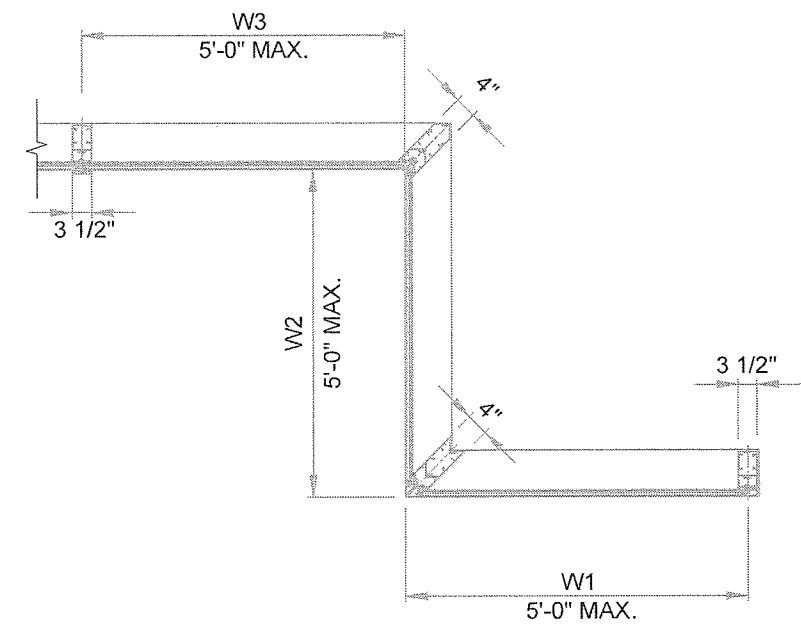
CASE 6
INSIDE / OUTSIDE
CORNER MULLION.

MAX. DESIGN
LOAD
+ 100 PSF
- 140 PSF



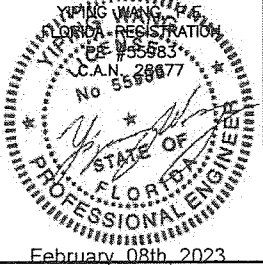
CASE 5 - PLAN VIEW
 $W1*Pd1 = W2*Pd2 = W3*Pd3$

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0208.02
Expiration Date: 06/06/2028
By: *Manuel Perez*
Miami-Dade Product Control
MIAMI DADE COUNTY



DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	07 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL - SMI
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3550 NW 49th Street, MIAMI, FL 33142
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MIRAMAR, FL 33027 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

REVISIONS	
NO. DATE DESCRIPTION	
1 1/18/23 RENEWAL	

TYP. MULLION W/ OR W/O REINF. OPTIONS												TYP. JAMB W/ OR W/O REINF. OPTIONS																																			
MULLION W/O REINF.				MULLION W/ ST-1				MULLION W/ ST-2				MULLION W/ ST-4				JAMB W/O REINF.				JAMB W/ ST-1				JAMB W/ ST-2				JAMB W/ ST-4																			
ALUM. (7000-109 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-109 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-109 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-109 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-109 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-109 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-109 + 7000-108)		Ix in^4	Sx in^3																				
		33.4176	8.9666			33.4176	8.9666			33.4176	8.9666			33.4176	8.9666			33.4176	8.9666			33.4176	8.9666			33.4176	8.9666																				
2 * ST-1				2 * ST-2				2 * ST-4				1 * ST-1				1 * ST-2				1 * ST-4																											
9.2210				3.7440				6.5046				4.6105				2.1566				3.2523																											
TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)																											
60.1585				44.2752				52.2809				46.7881				38.8464				42.8492																											
STRUCTURAL BUTT GLAZED STRAIGHT MULLION												STRUCTURAL BUTT GLAZED CURVED MULLION												STRUCTURAL BUTT GLAZED STRAIGHT JAMB												STRUCTURAL BUTT GLAZED CURVED JAMB											
ALUM. (7000-131 + 7000-109)		Ix in^4	Sx in^3	ALUM. (7000-131 + 7000-109)		Ix in^4	Sx in^3	ALUM. (7000-131 + 7000-109)		Ix in^4	Sx in^3	ALUM. (7000-131 + 7000-109)		Ix in^4	Sx in^3	ALUM. (7000-131 + 7000-132)		Ix in^4	Sx in^3	ALUM. (7000-131 + 7000-132)		Ix in^4	Sx in^3	ALUM. (7000-131 + 7000-132)		Ix in^4	Sx in^3																				
		34.7709	9.4261			34.7709	9.4261			34.7709	9.4261			34.7709	9.4261			35.9366	9.7389			35.9366	9.7389			35.9366	9.7389																				
2 * ST-1				2 * ST-2				2 * ST-4				1 * ST-1				1 * ST-2				1 * ST-4																											
9.2210				3.7440				6.5046				4.6105				2.1566				3.2523																											
TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)																											
61.5089				45.6285				53.6342				49.3071				41.3654				45.3682																											
STRUCTURAL CAPPED GLAZED STRAIGHT MULLION												STRUCTURAL CAPPED GLAZED STRAIGHT JAMB																																			
ALUM. (7000-108 + 7000-102)		Ix in^4	Sx in^3	ALUM. (7000-102 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-102 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-102 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-102 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-102 + 7000-108)		Ix in^4	Sx in^3	ALUM. (7000-102 + 7000-108)		Ix in^4	Sx in^3																				
		40.5240	9.3870			40.5240	9.3870			40.5240	9.3870			40.5240	9.3870			40.5240	9.3870			40.5240	9.3870			40.5240	9.3870																				
2 * ST-1				2 * ST-2				2 * ST-4				2 * ST-1				2 * ST-2				2 * ST-4																											
9.2210				3.7440				6.5046				9.2210				4.3132				6.5046																											
TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)				TOTAL Ix AI + Ix St*(2.9)																											
67.2620				51.3816				59.3873				67.2620				51.3816				59.3873																											
STRUCTURAL GLAZED CORNER MULLIONS												REINFORCEMENT OPTIONS																																			
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.				0.641 0.750				0.641 0.250				0.641 0.500																			
ALUM. (7000-120 + 7000-122)		Ix in^4	Sx in^3	ALUM. (7000-124 + 7000-125)		Ix in^4	Sx in^3	ALUM. (7000-120 + 7000-122)		Ix in^4	Sx in^3	ALUM. (7000-124 + 7000-125)		Ix in^4	Sx in^3	ALUM. (7000-120 + 7000-122)		Ix in^4	Sx in^3	ALUM. (7000-124 + 7000-125)		Ix in^4	Sx in^3	ST-1 (A50) 3/4" STEEL REINFORCEMENT		ST-2 (A36) 1/4" STEEL REINFORCEMENT		ST-4 (A50) 1/2" STEEL REINFORCEMENT																			
		98.2386	16.7443			90.4431	14.0658			49.8888	10.3160			47.9395	9.2154			50.8132	10.363			45.1515	8.205																								
X-Direction				Y-Direction				X-Direction				Y-Direction				X-Direction				Y-Direction				X-Direction				Y-Direction				X-Direction				Y-Direction											
50.8132				45.1515				45.1515				8.205				50.8132				45.1515				45.1515				8.205				50.8132				45.1515											
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0208.02 Expiration Date: 06/06/2028 By: <i>Manuel Perez</i> Miami-Dade Product Control												MIAMI DADE COUNTY February 08th, 2023																																			

REVISIONS

NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL

MCY

ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARK WAY #301

MIRAMAR, FL 33027

P: 305.271.0117

F: 305.568.5224

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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

PRODUCT REVISED

as complying with the Florida Building Code

NOA-No. 23-0208.02

Expiration Date: 06/06/2028

By: *Manuel Perez*

Miami-Dade Product Control

MIAMI DADE COUNTY

February 08th, 2023

DATE 1/18/2023

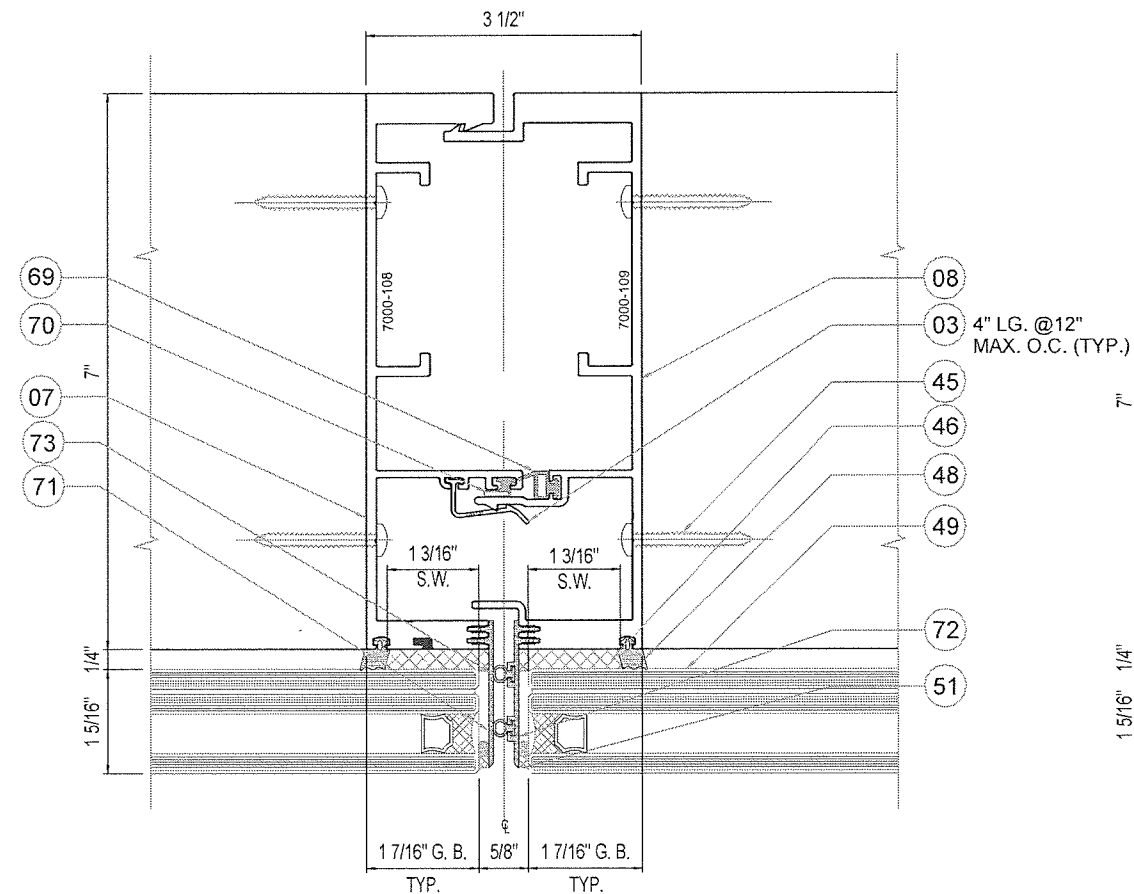
SCALE AS NOTED

DRAWN A.R.

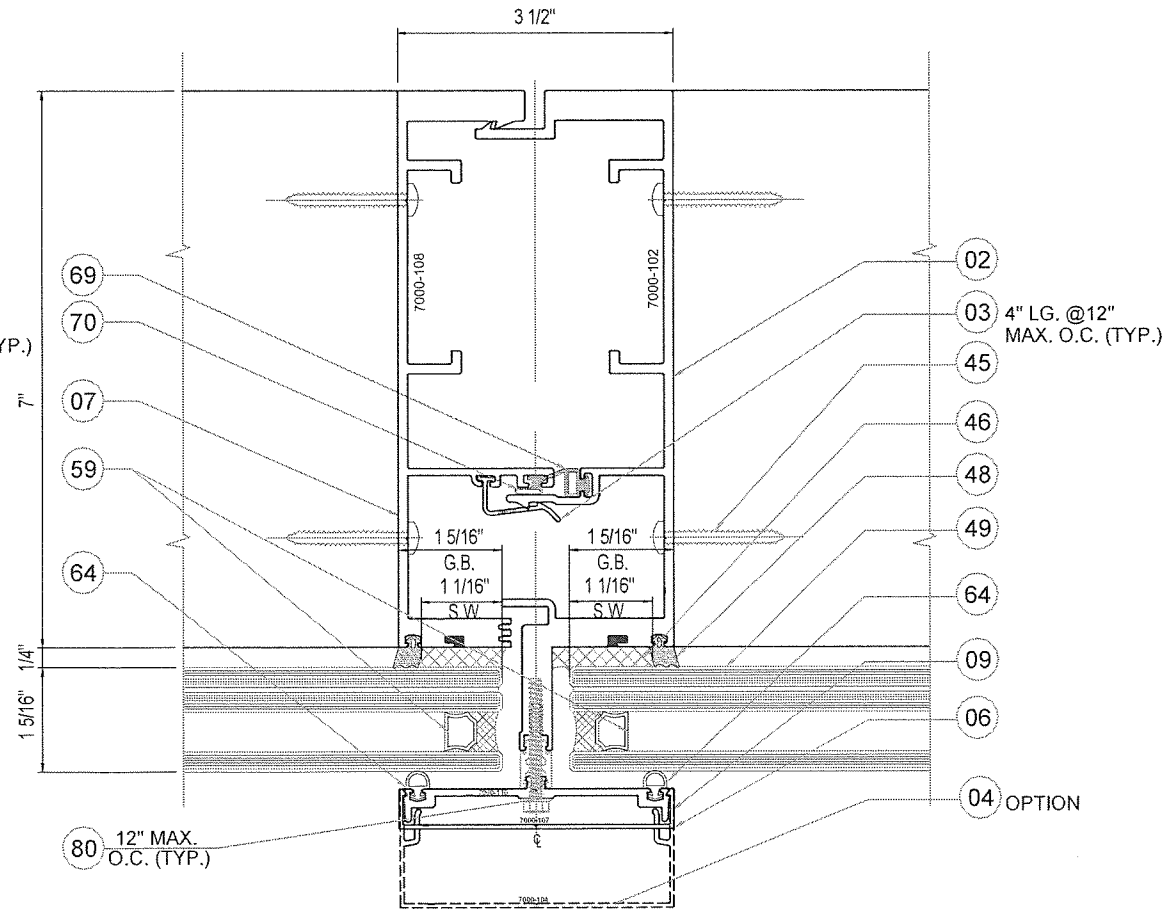
PROJECT MCY15-088

DRAWING NO. AD12-65

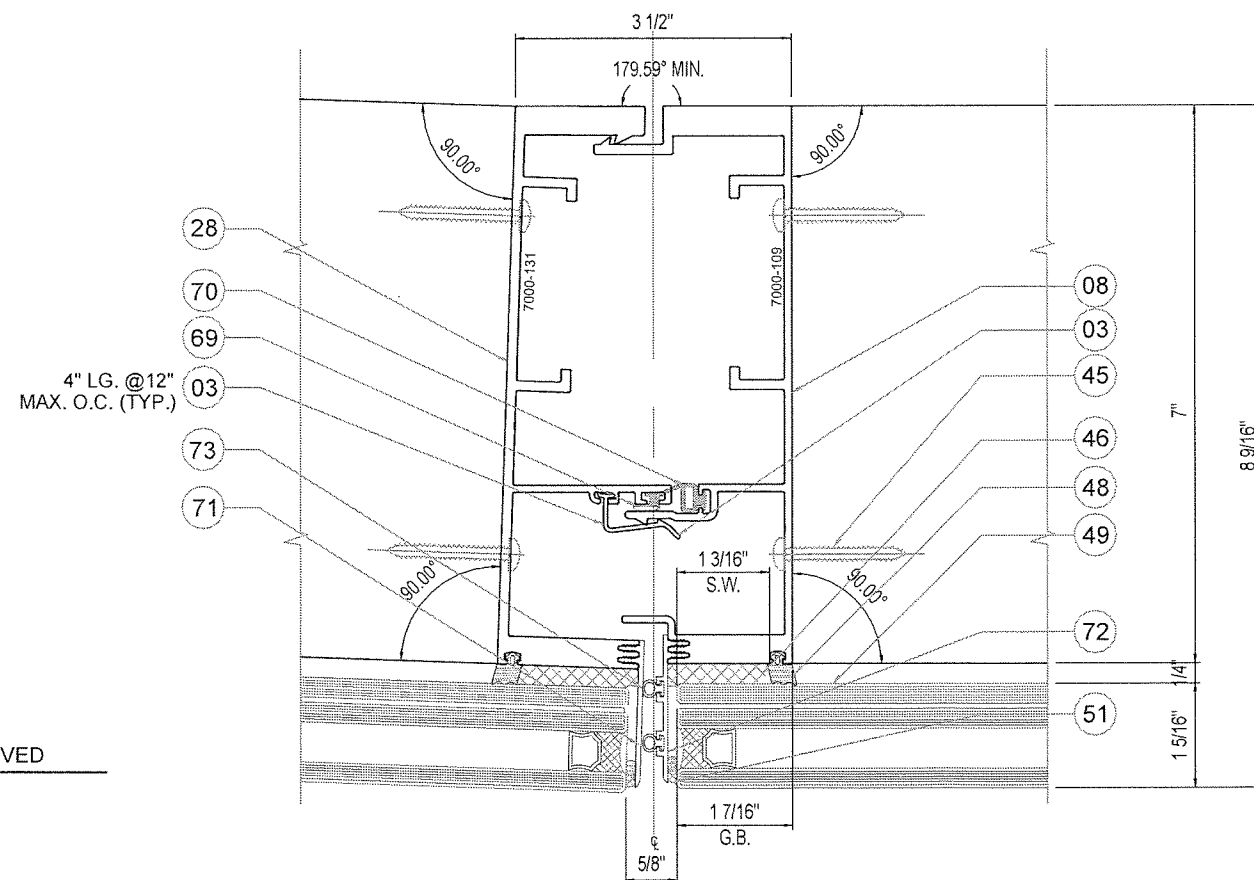
SHEET 08 OF 38



1
09 TYP. MULLION BUTT GLAZED
OPTION 1



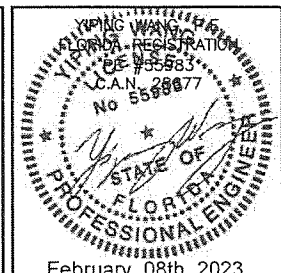
1
09 TYP. MULLION CAPTURED
OPTION 2



1
09 TYP. MULLION CURVED
OPTION 3

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



DATE 1/18/2023
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DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 09 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

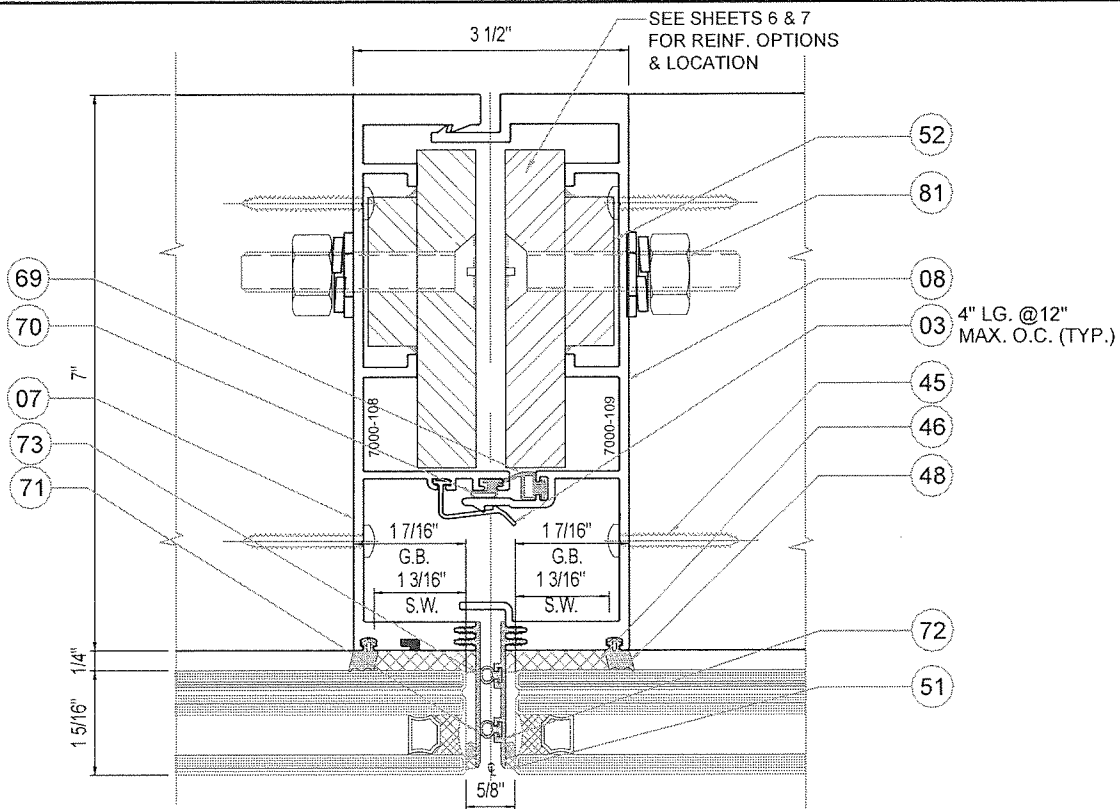
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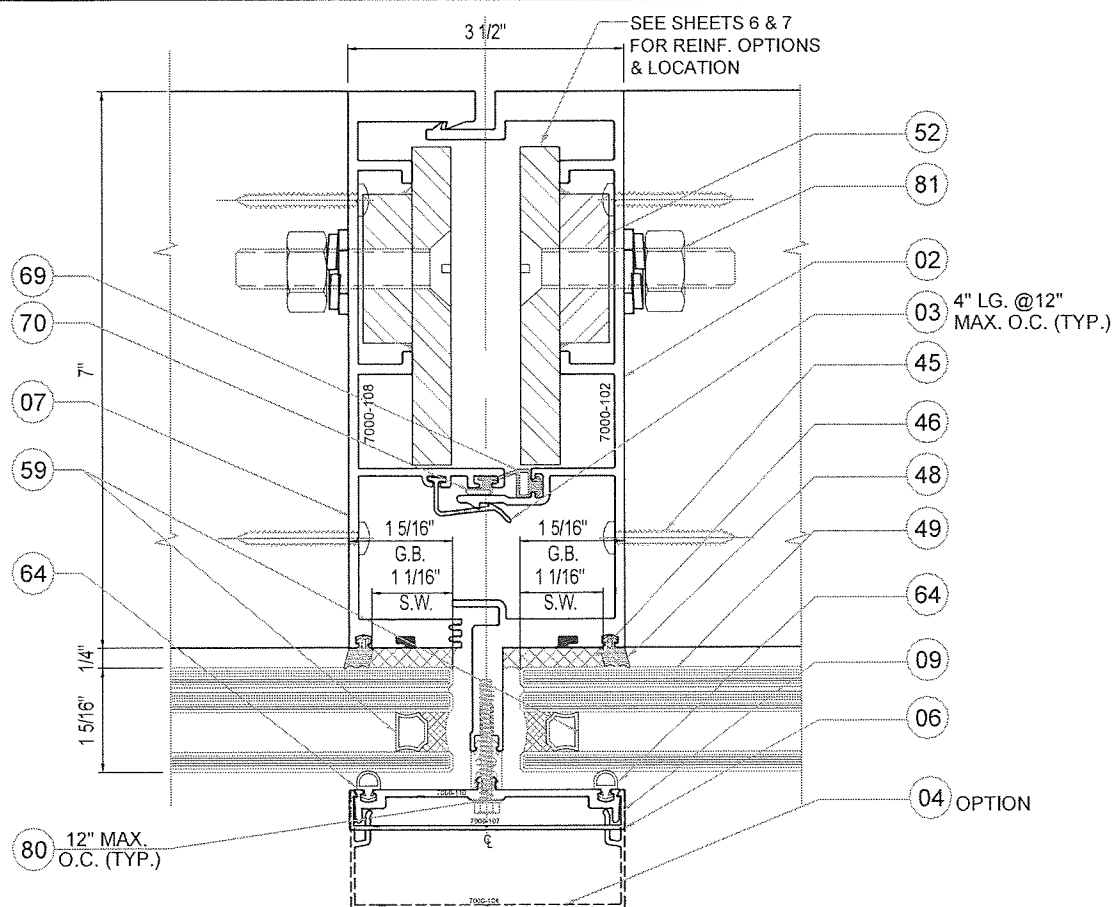
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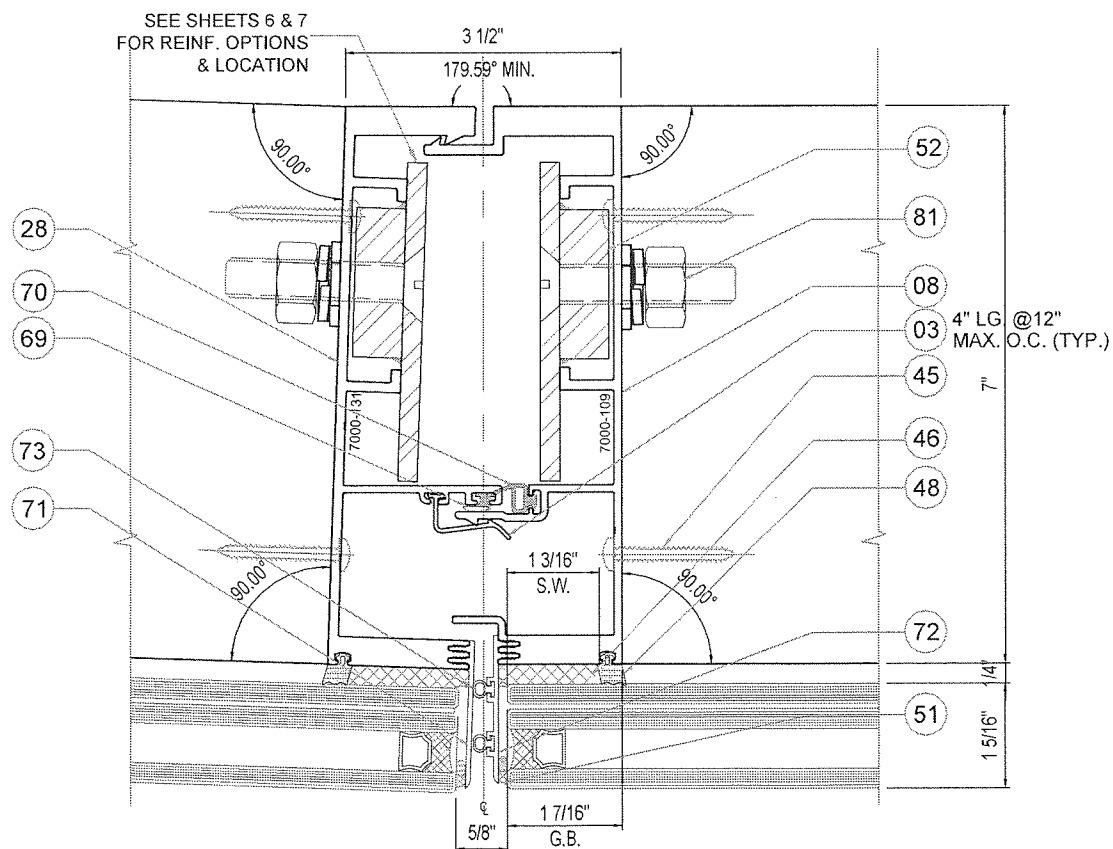
NO.	DATE	DESCRIPTION
01	1/18/23	RENEWAL
02		
03		
04		
05		
06		
07		
08		
09		



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



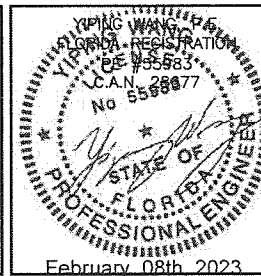
2
10 TYP. MULLION CAPTURED W/ REINF.
OPTION 2



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

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

PRODUCT REVISED
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NOA No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control



MIAMI DADE COUNTY

February 08th, 2023

DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 10 OF 38

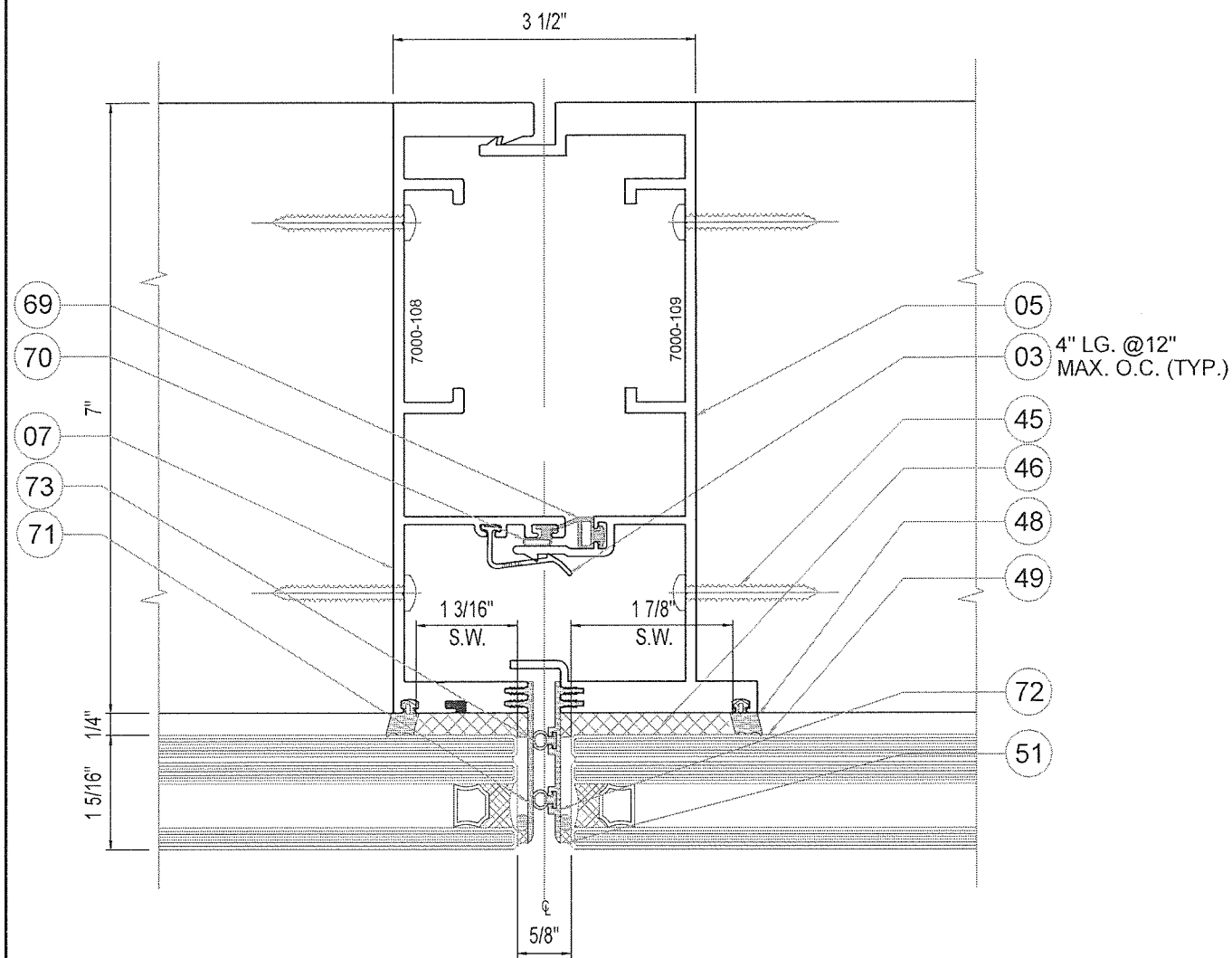
REVISIONS	
NO.	DATE DESCRIPTION
1	1/18/23 RENEWAL

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

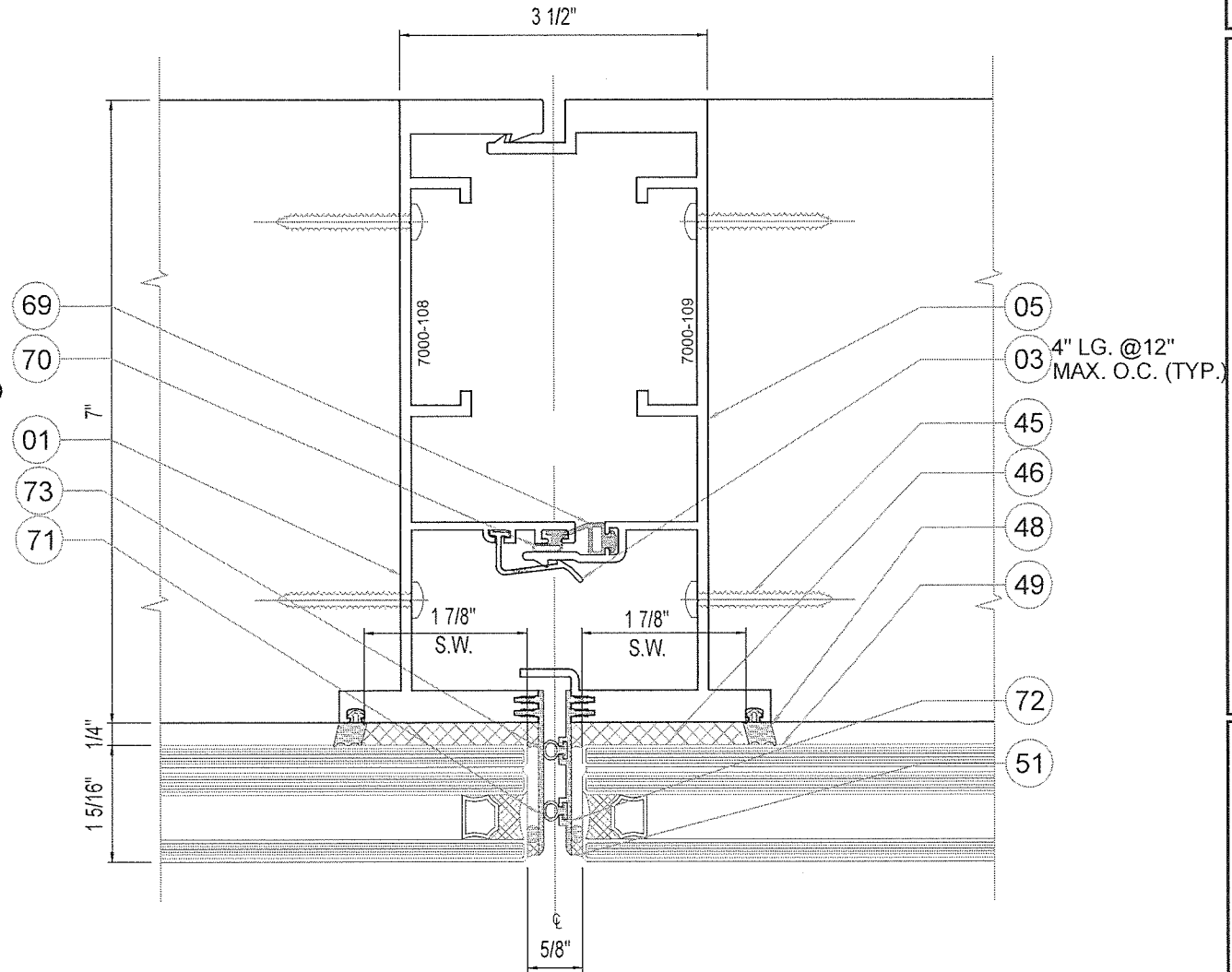
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI

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



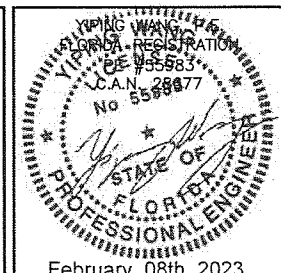
2A
10A TYP. MULLION BUTT GLAZED



2B
10A TYP. MULLION BUTT GLAZED

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



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DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

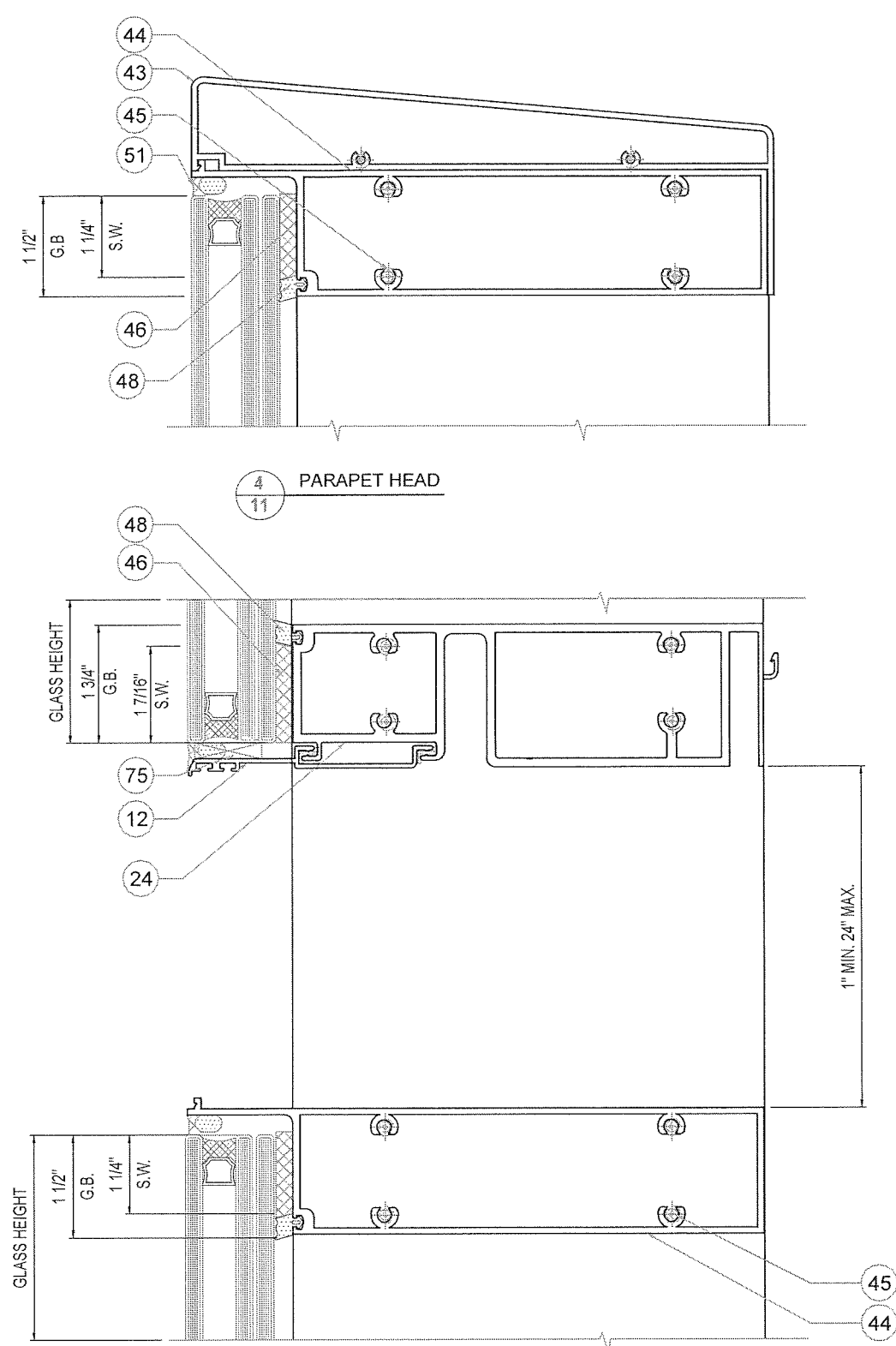
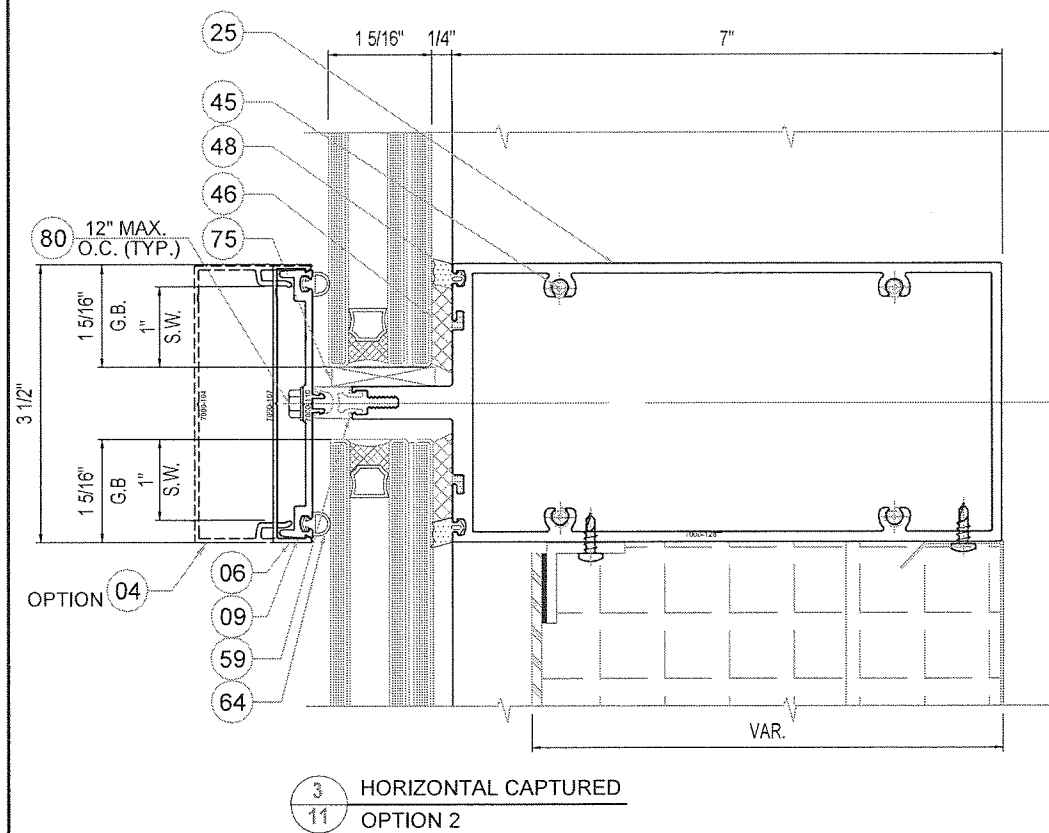
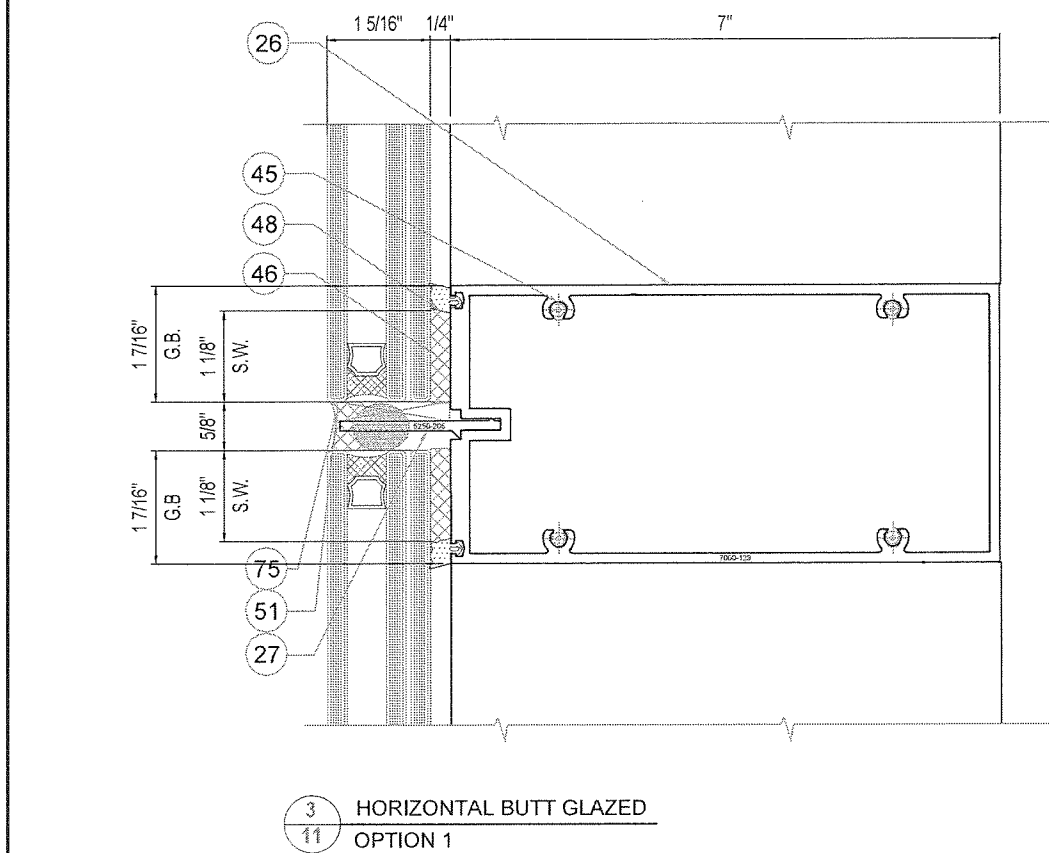
SHEET 10A OF 38

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

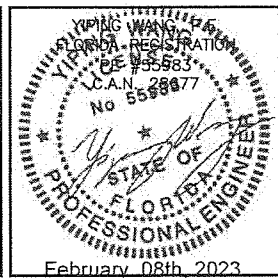
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARK WAY #301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Ferraz*
Miami-Dade Product Control

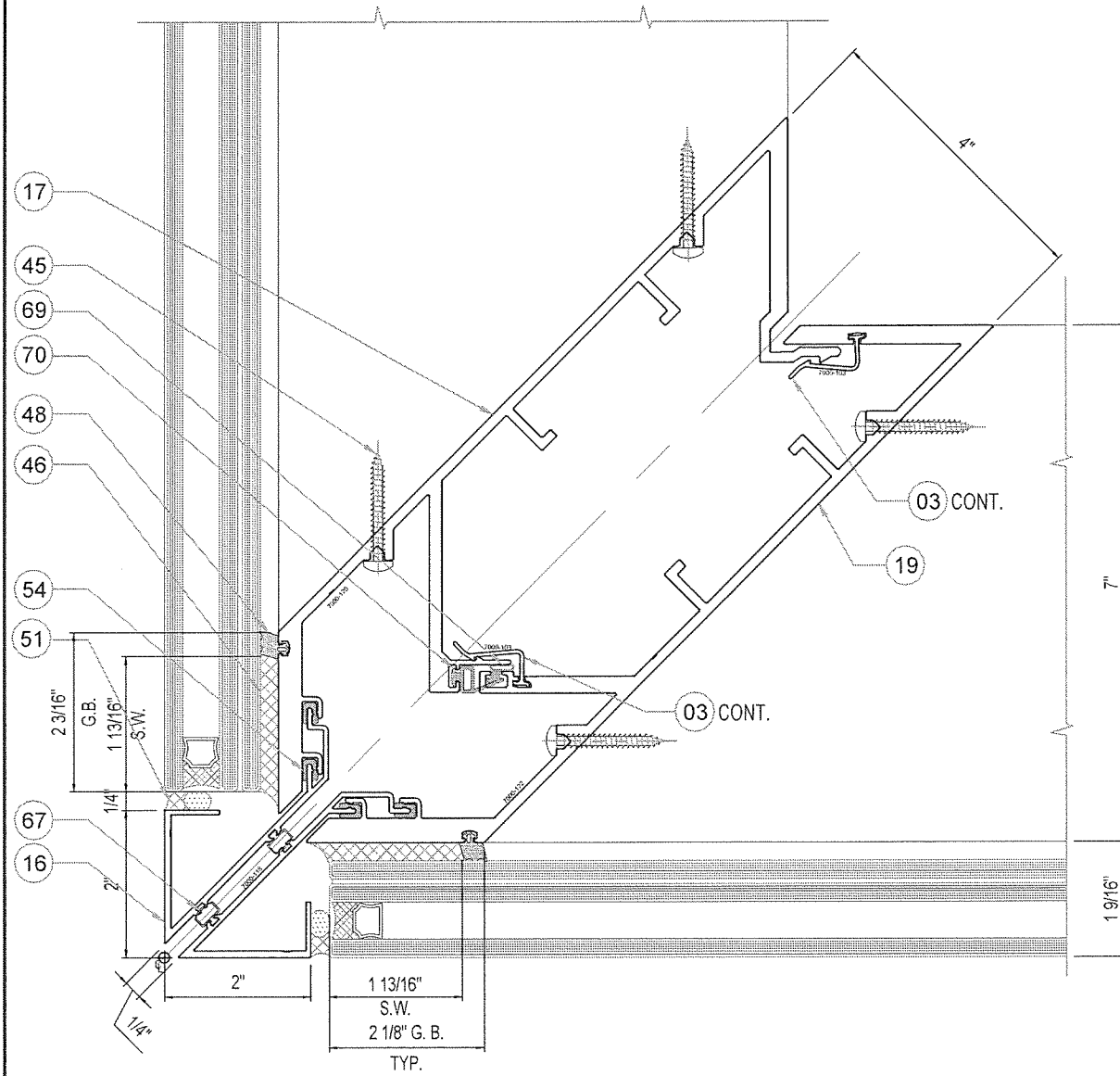


DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	11 OF 38

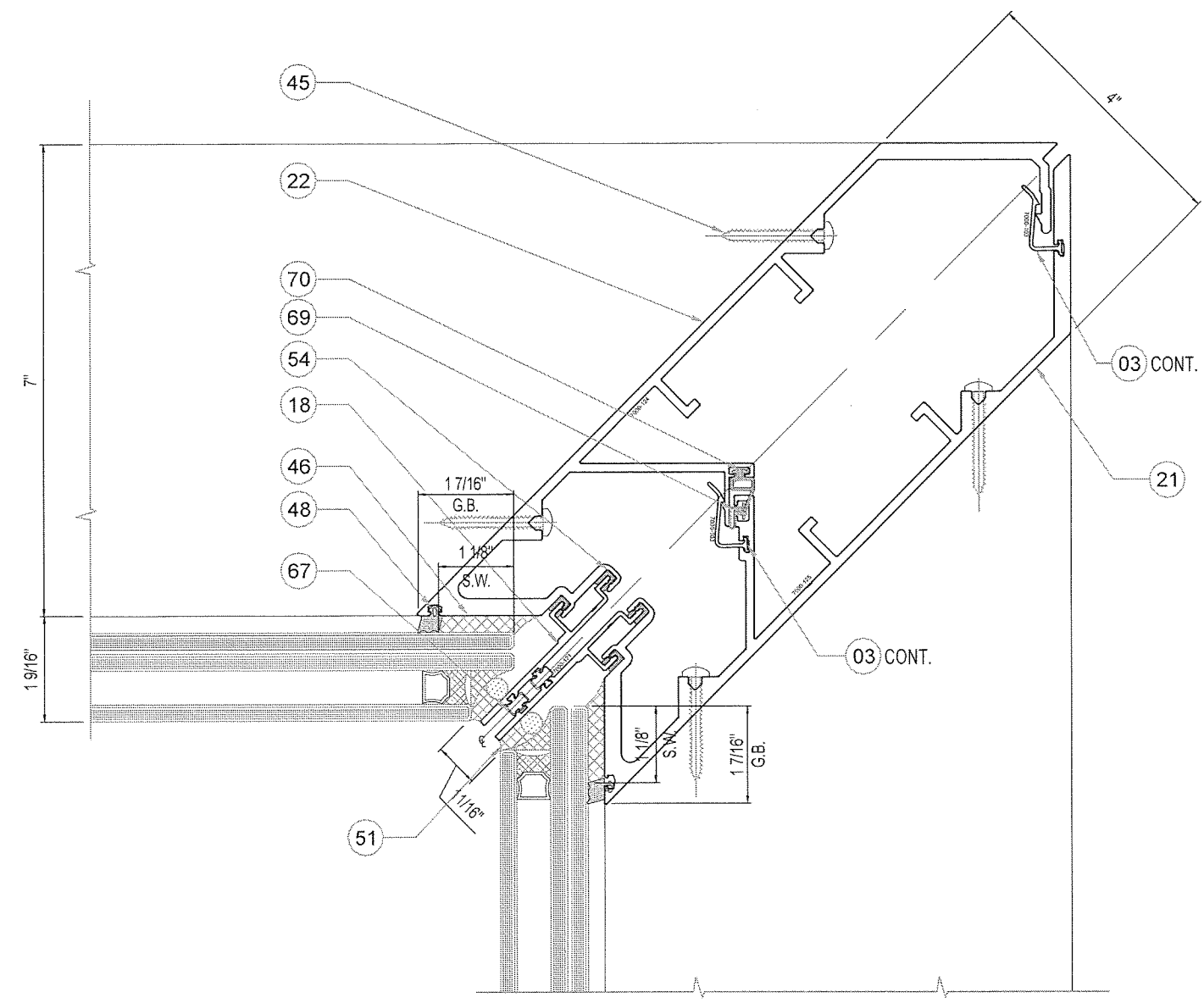
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

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REVISIONS	NO.	DATE	DESCRIPTION
	1	1/18/23	RENEWAL



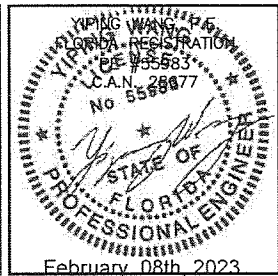
6
12 OUTSIDE CORNER MULLION



6A
12 INSIDE CORNER MULLION

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control
MIAMI DADE COUNTY



DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	12 OF 38

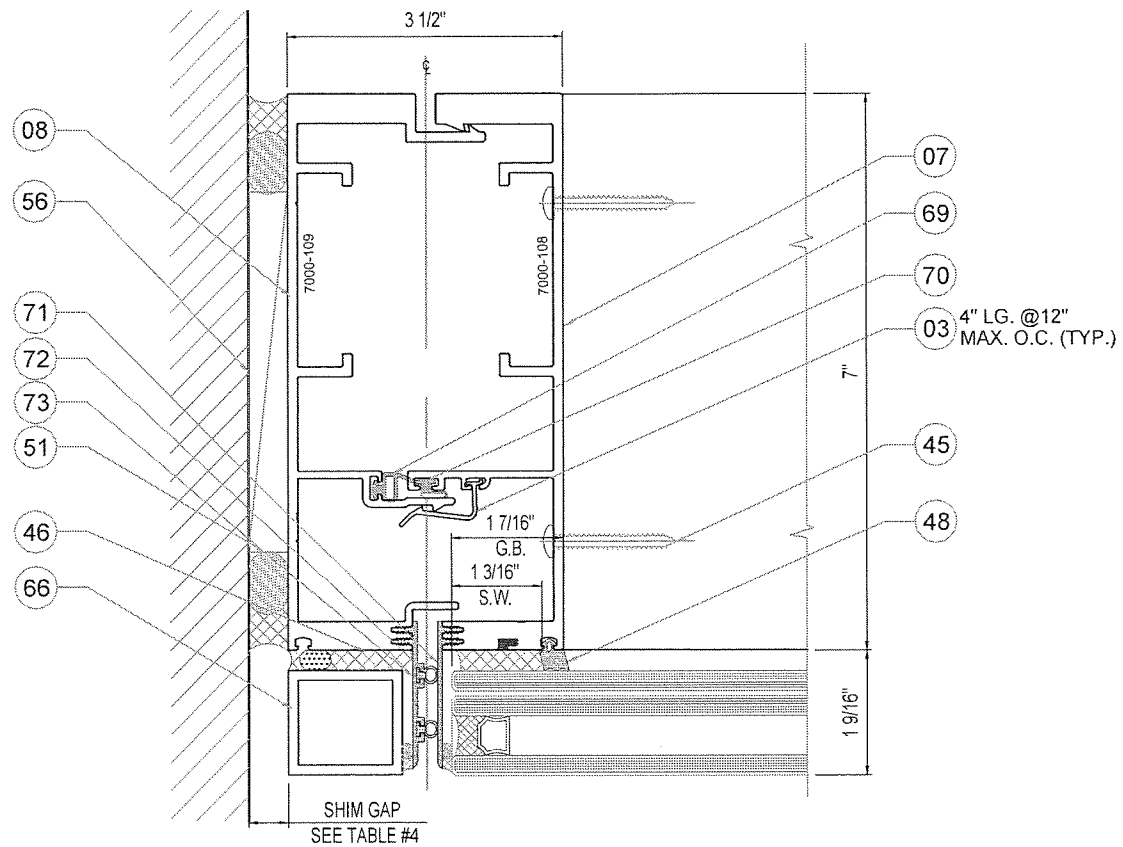
REVISIONS

NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL

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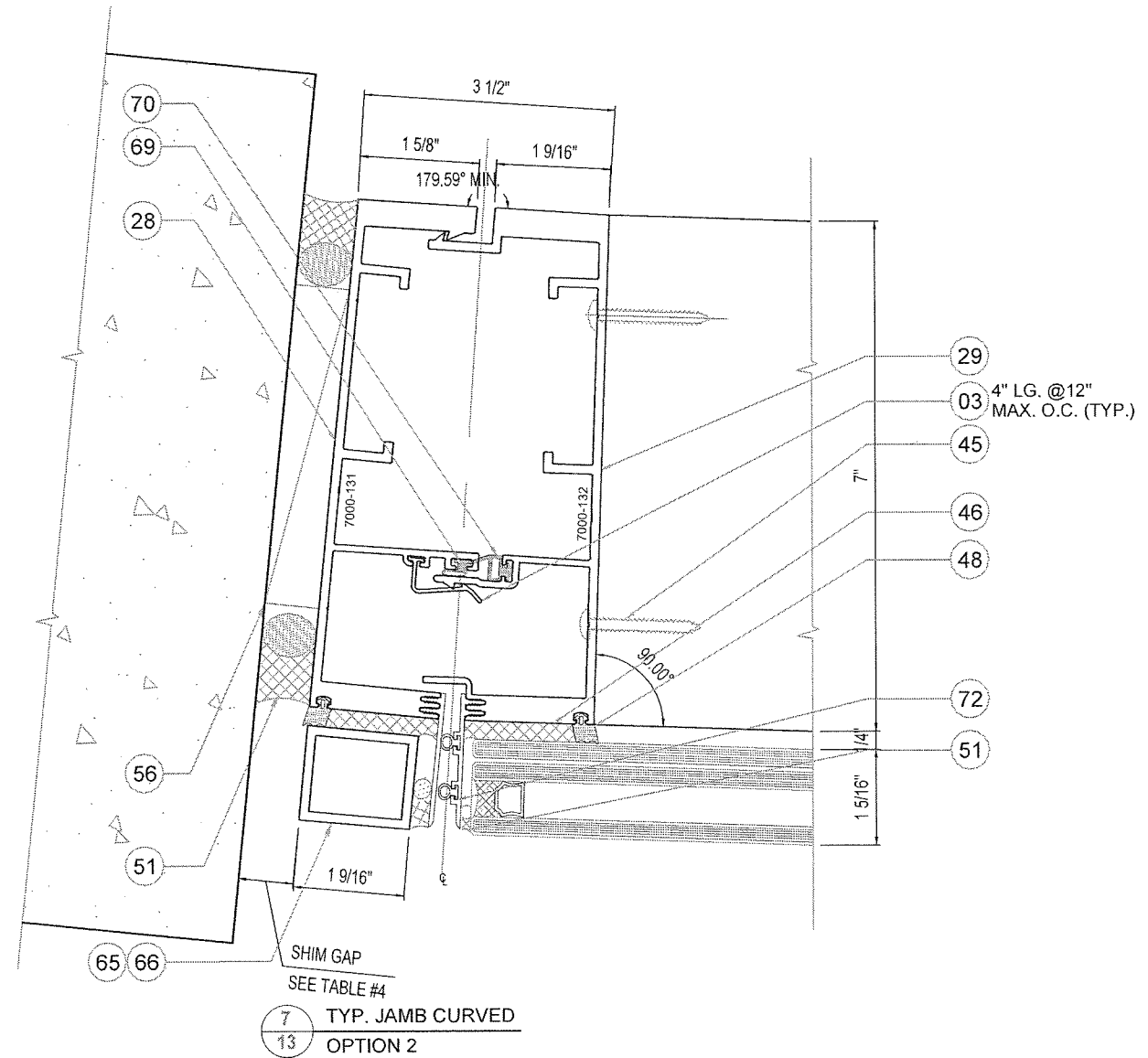


7 TYP. JAMB BUTT GLAZED
13 OPTION 1

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"

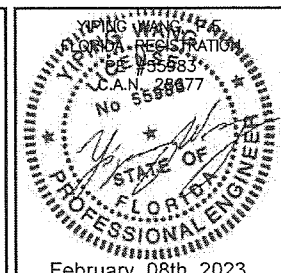
*JAMB SPAN: - ANCHOR C_L TO C_L



7 TYP. JAMB CURVED
13 OPTION 2

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



February 08th 2023

DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

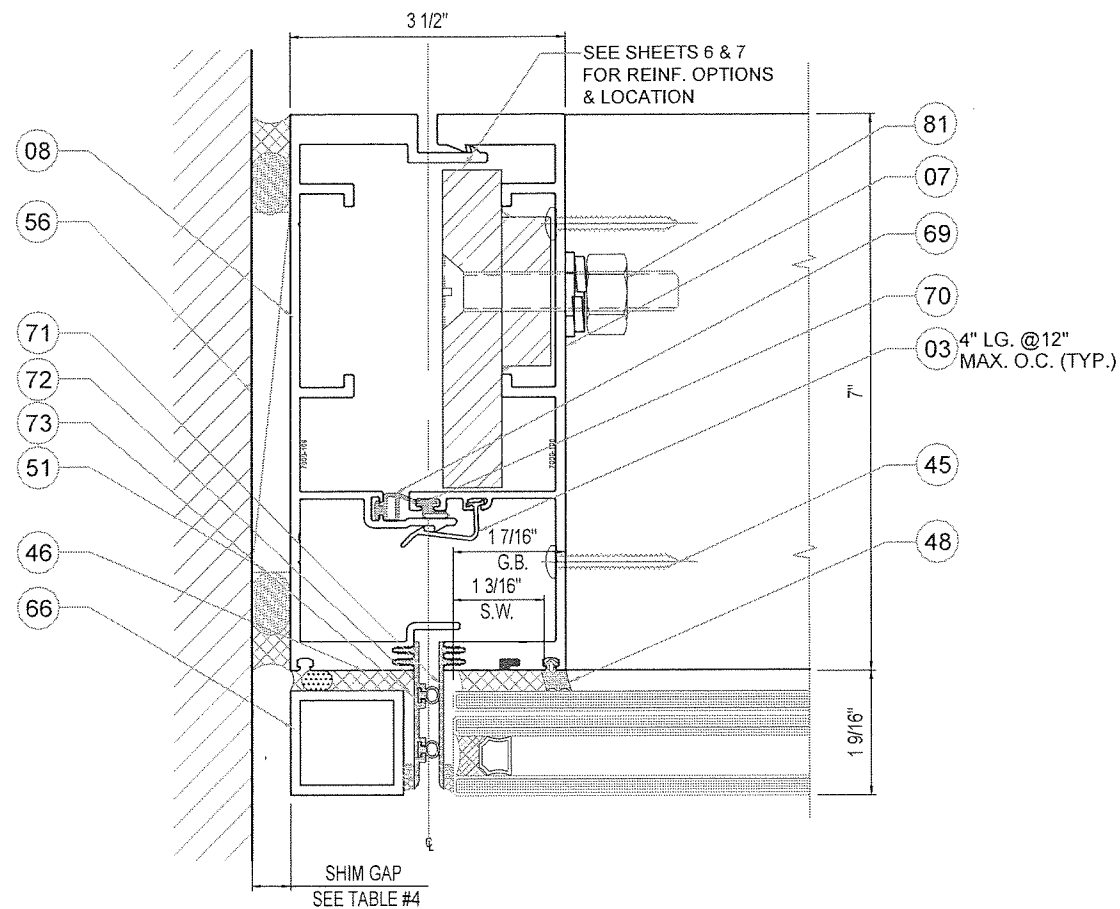
SHEET 13 OF 38

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

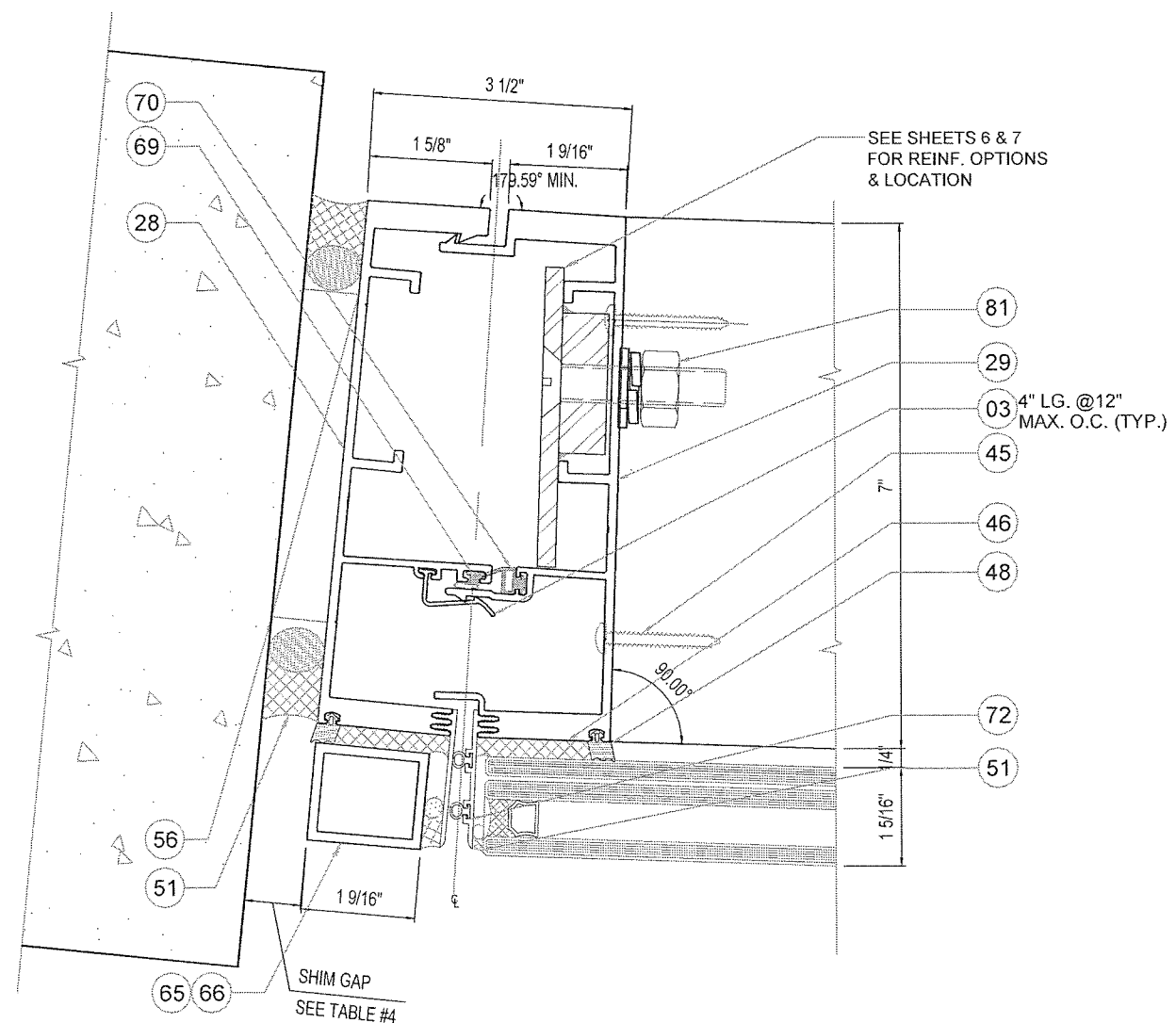
MCY ENGINEERING, INC.
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www.MCYEngineering.com MCY@mcyengineering.com

NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL



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



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

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

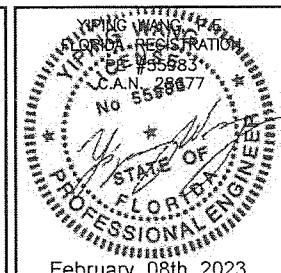
TABLE #4: MIN/MAX SHIM GAP

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 C_L TO C_L

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

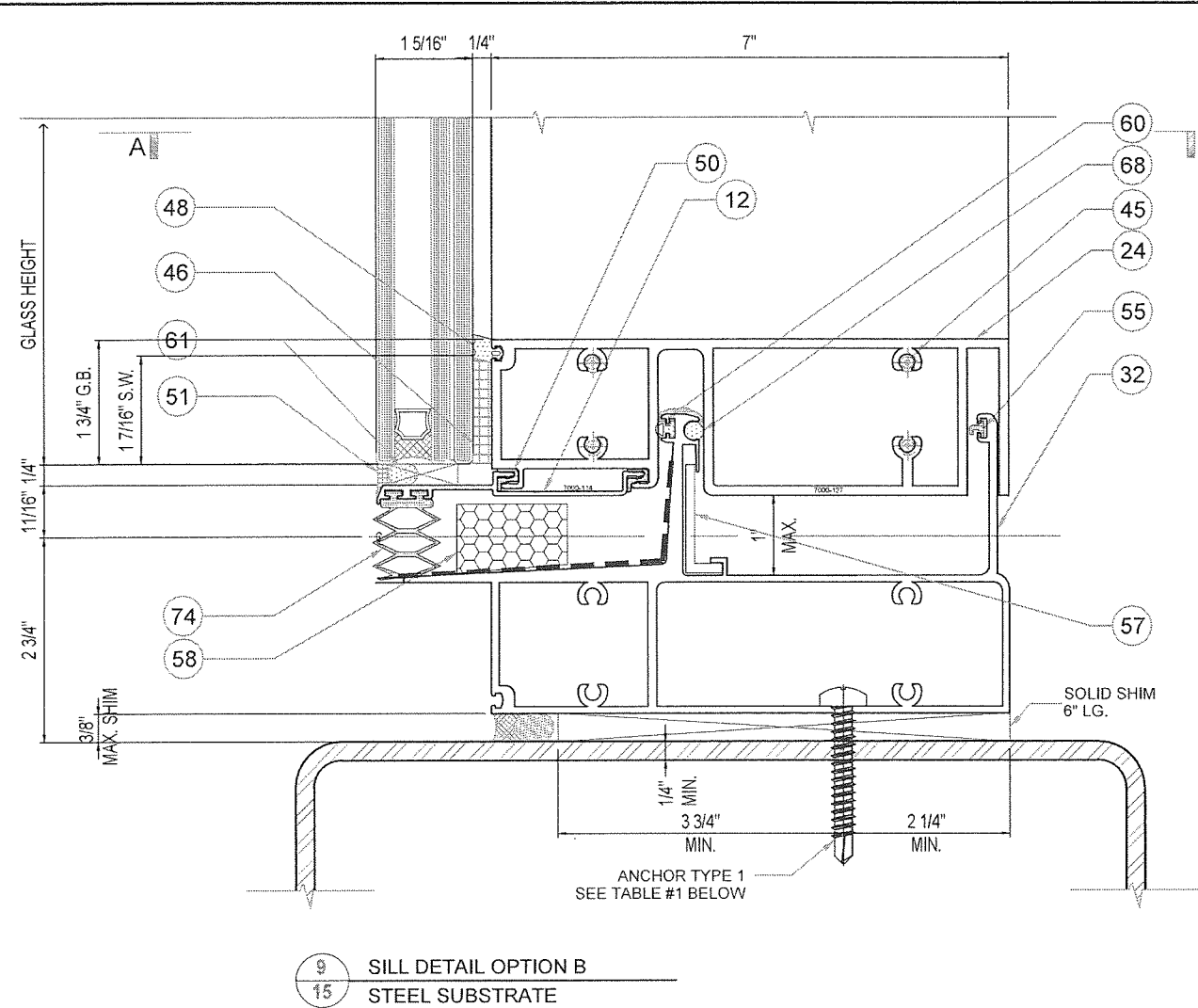
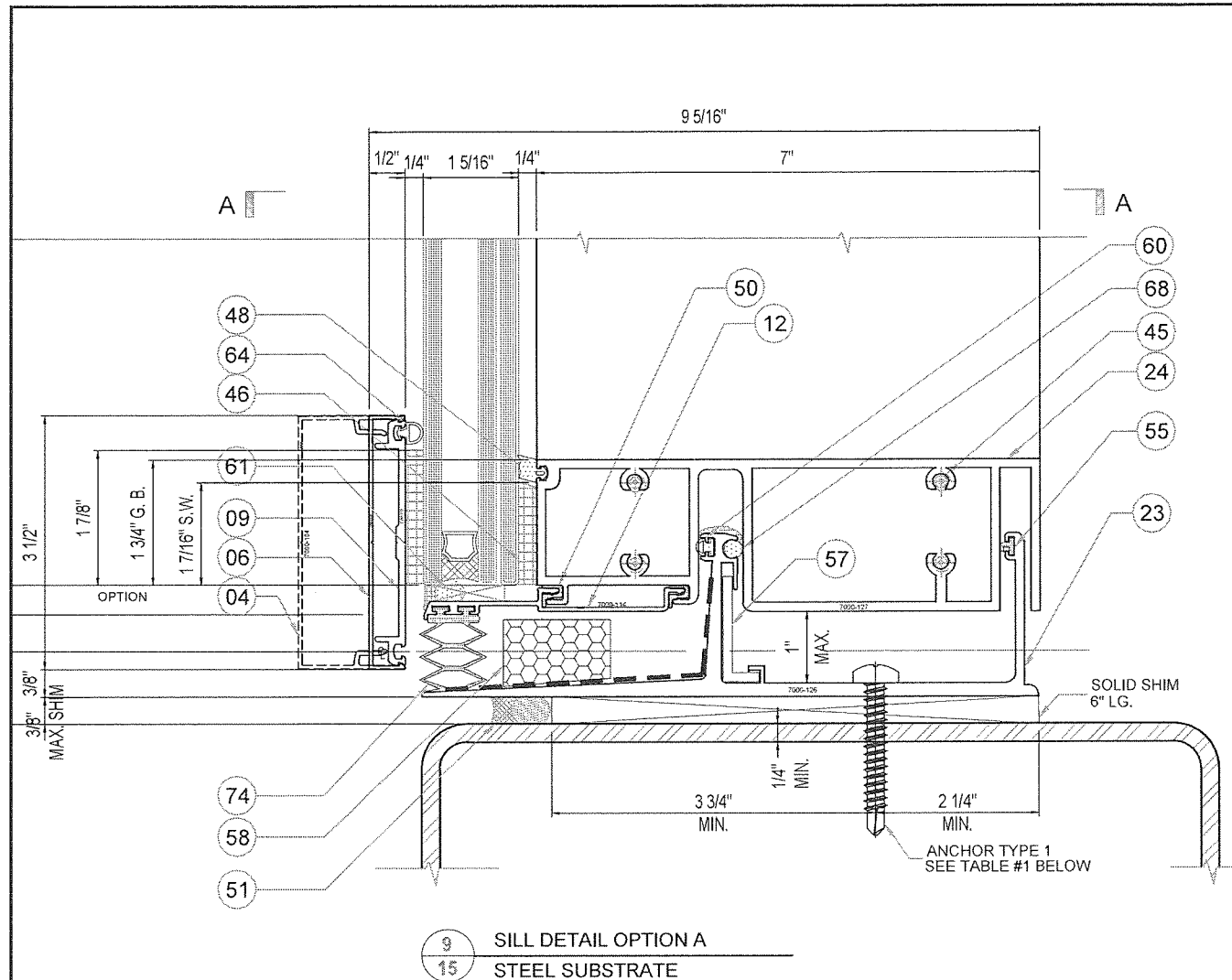
SHEET 14 OF 38

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

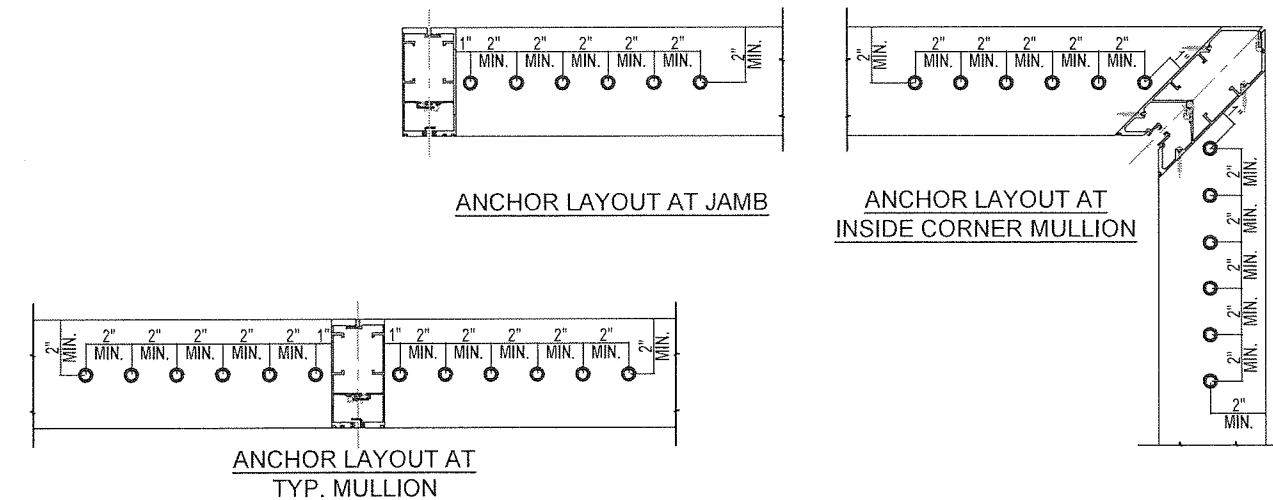
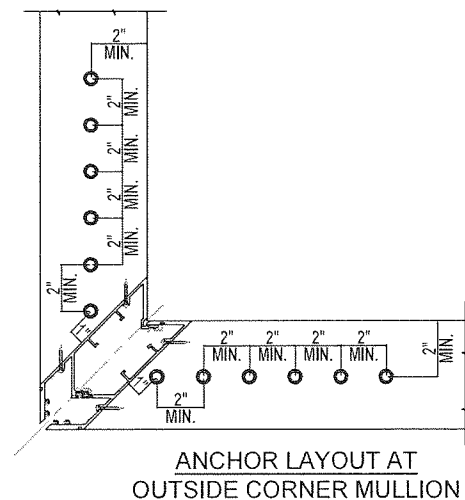
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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MIRAMAR, FL 33027 F: 305.588.5224
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REVISIONS	NO.	DATE	DESCRIPTION
	1	1/18/23	RENEWAL



		MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M. S.)				
	SPAN	36	42	48	54	60
	(in)	(in)	(in)	(in)	(in)	(in)
A0#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
A0#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
A0#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 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)

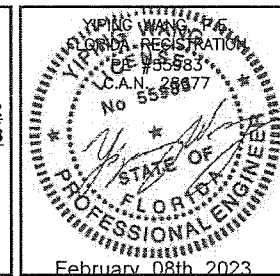
TABLE #1: NO. OF ANCHOR TYPE 1-SILL ANCHOR.

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
A0#1 (4200)	6	6
A0#2 (3500)	5	5
A0#3 (2800)	4	4

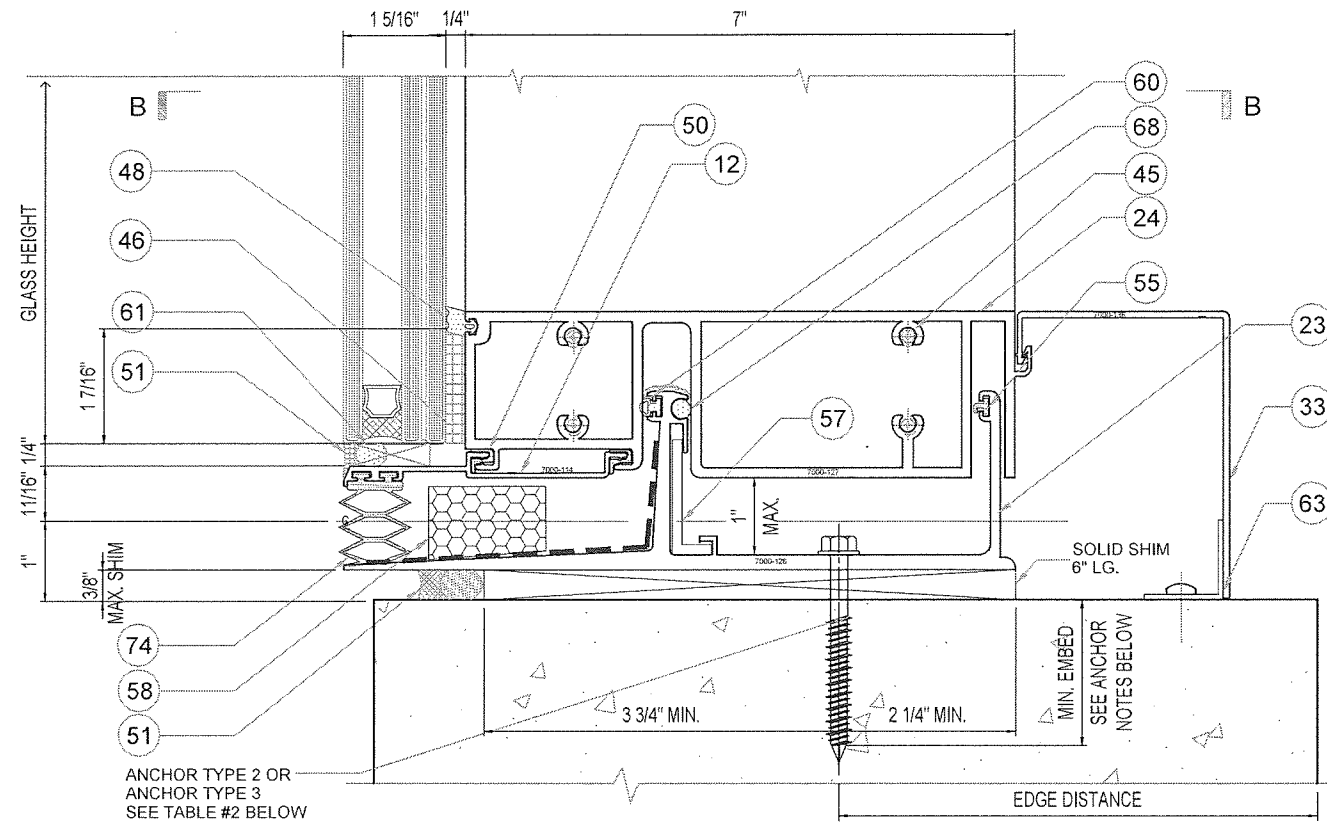
FOR A0#1, A0#2 & A0#3 ANCHOR CAPACITY VS. SPAN
AND MULLION SPACING SEE CHART ON THE LEFT.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Fernandez*
Miami-Dade Product Control

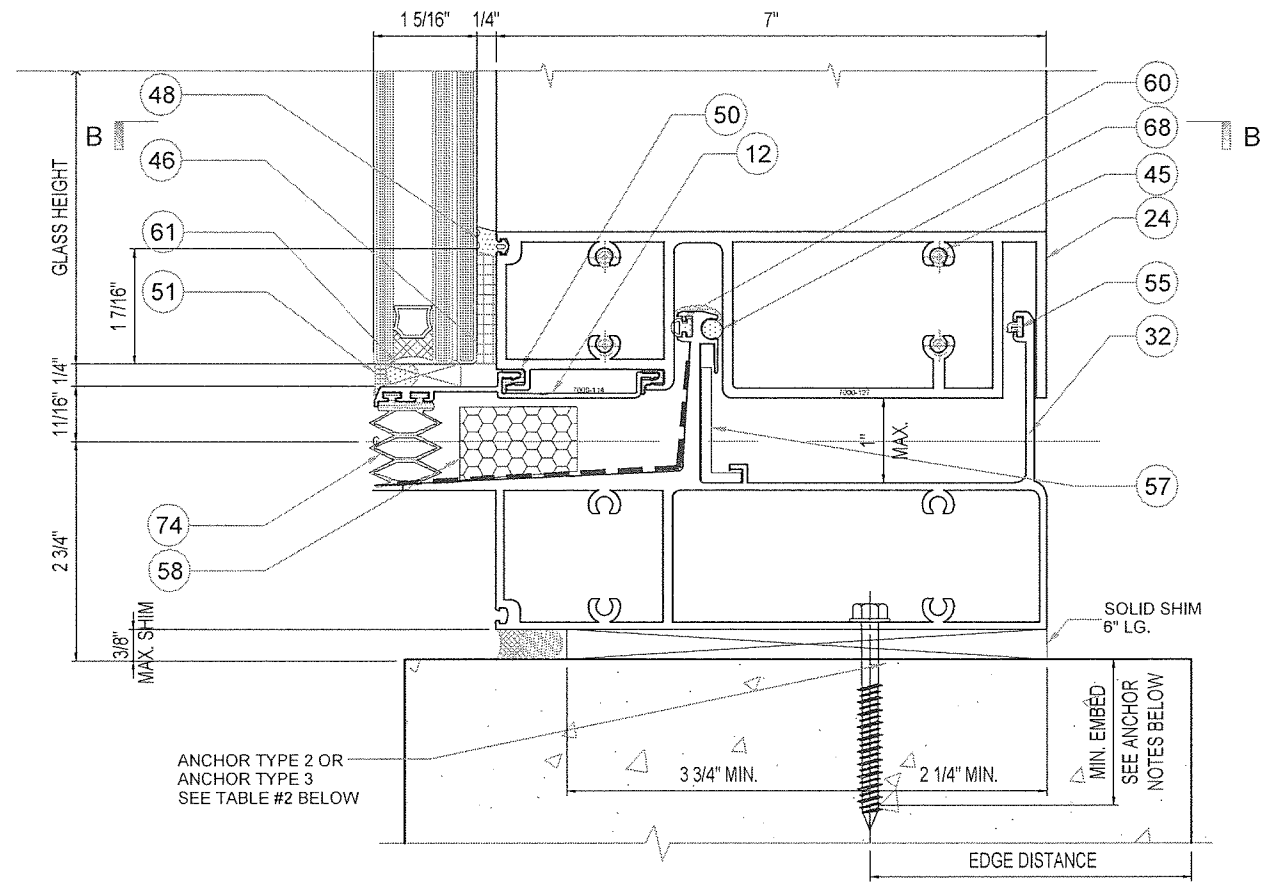
MIAMI DADE COUNTY



MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARK WAY #301 P: 305.271.0117 MIRAMAR, FL 33027 F: 305.588.5224 www.MCYEngineering.com		REVISIONS NO. DATE DESCRIPTION 1 1/18/23 RENEWAL
SERIES 7000 ALUMINUM CURTAIN WALL - SMI TECNOGLASS, LLC. 3550 NW 49th Street, MIAMI, FL 33142 Phone (305) 342-0890 Fax (786) 513-3965		DATE 1/18/2023 SCALE AS NOTED DRAWN A.R. PROJECT MCY15-088 DRAWING NO. AD12-65 SHEET 15 OF 38

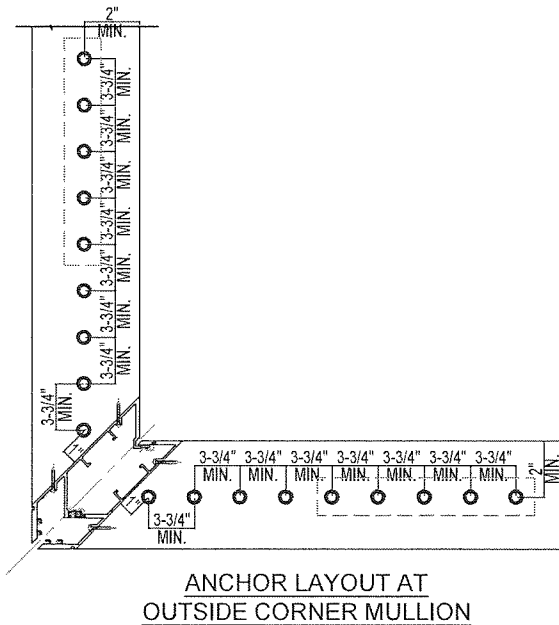


10 SILL DETAIL OPTION C
16 CONCRETE SUBSTRATE



10 SILL DETAIL OPTION D
16 CONC. SUBSTRATE

	SPAN (in)	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M.S.)				
		36 (in)	42 (in)	48 (in)	54 (in)	60 (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
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 ELCO
(Fu=177ksi Fy=155ksi)
DIRECTLY INTO CONCRETE fc' = 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 fc'=4000psi MIN.
1-3/4" MIN. EMBED. INTO CONCRETE
3" MIN. EDGE DISTANCE

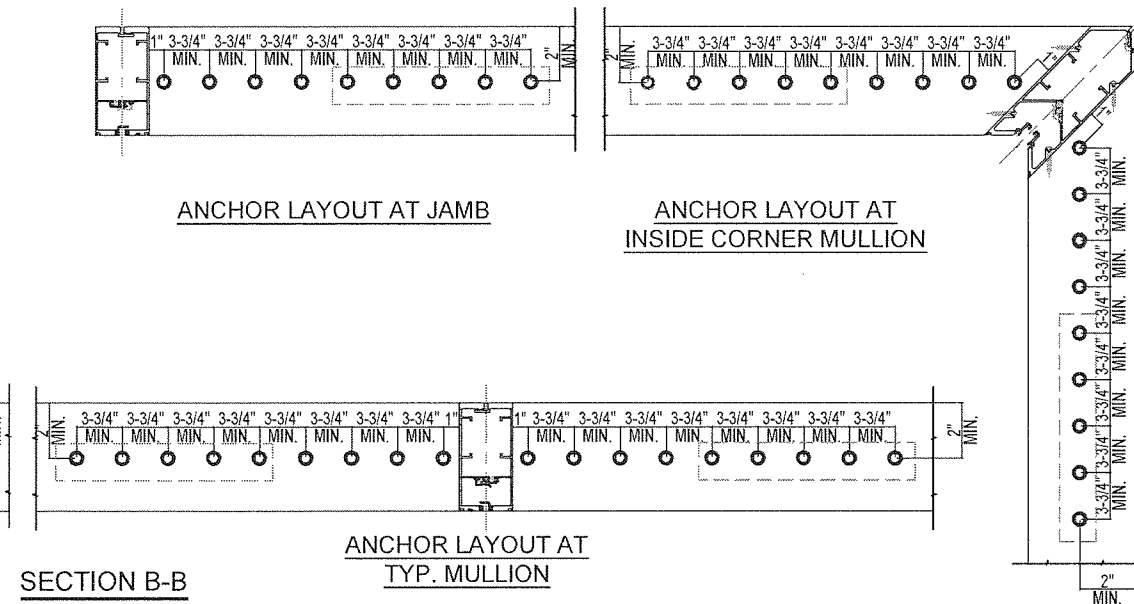
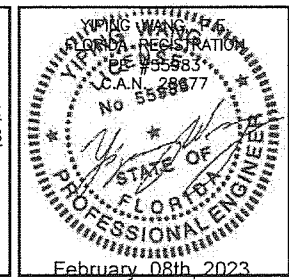


TABLE #2: NO. OF ANCHORS TYPE 2 OR 3 - SILL ANCHOR.

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.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Marcus Jara*
Miami-Dade Product Control



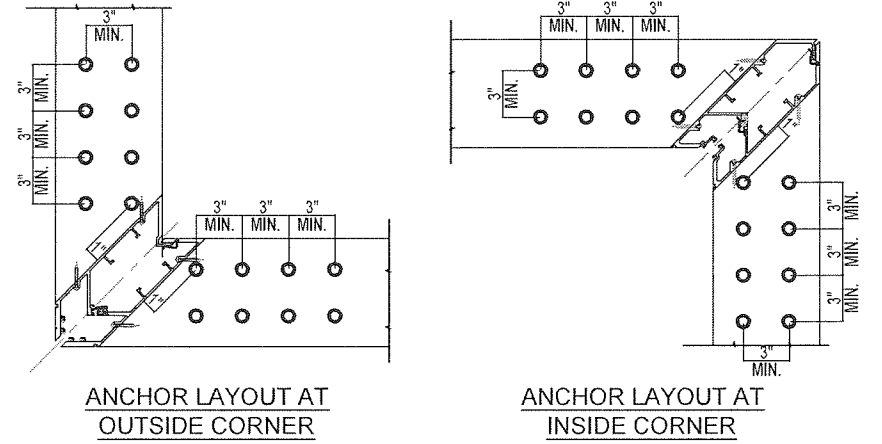
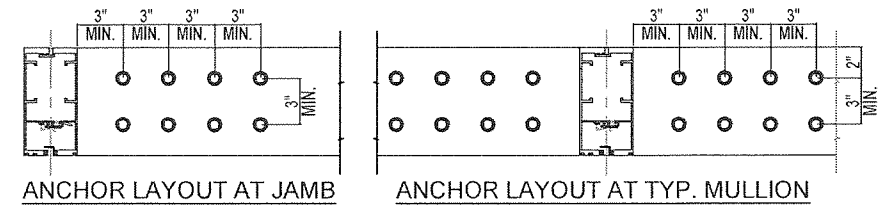
DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET 16	OF 38

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

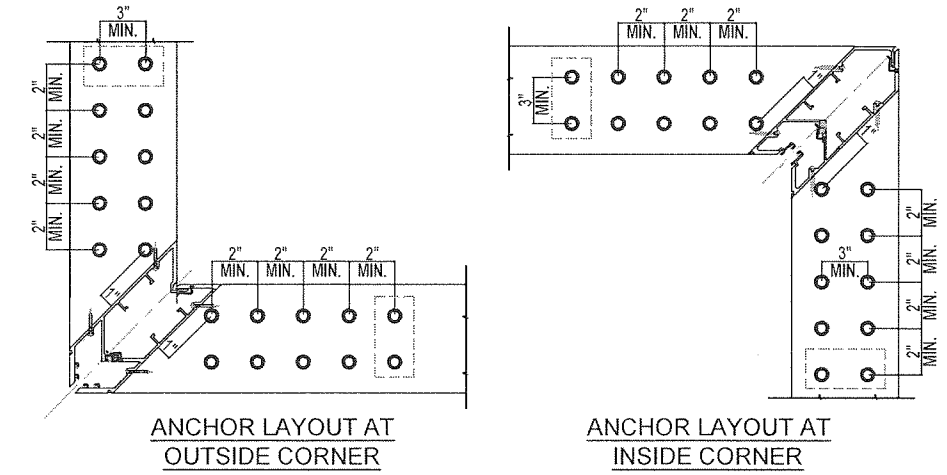
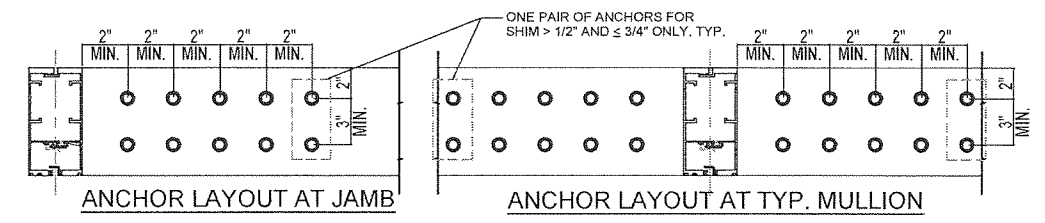
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www.MCYEngineering.com MCY@mcycengineering.com

REVISIONS
NO. DATE DESCRIPTION
A 1/18/23 RENEWAL

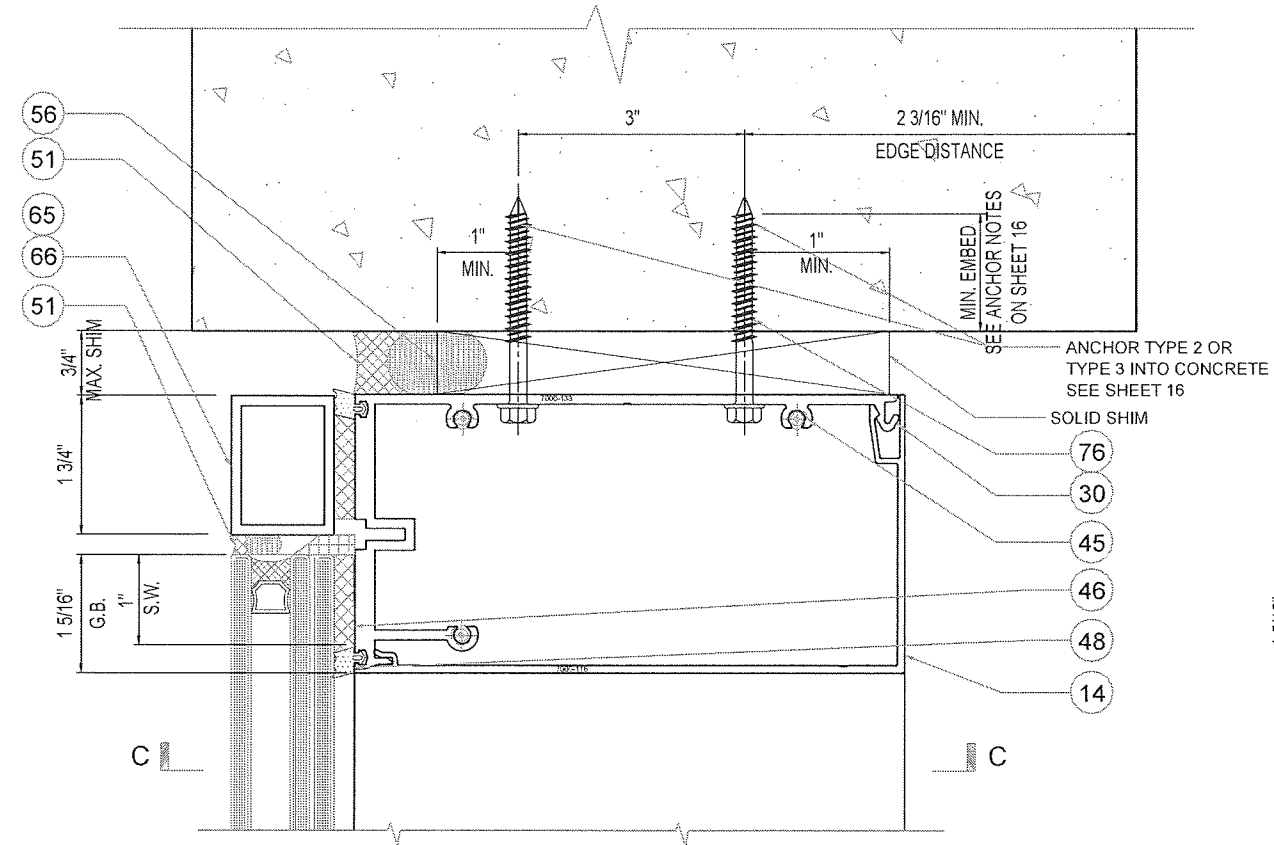
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965



SECTION C-C

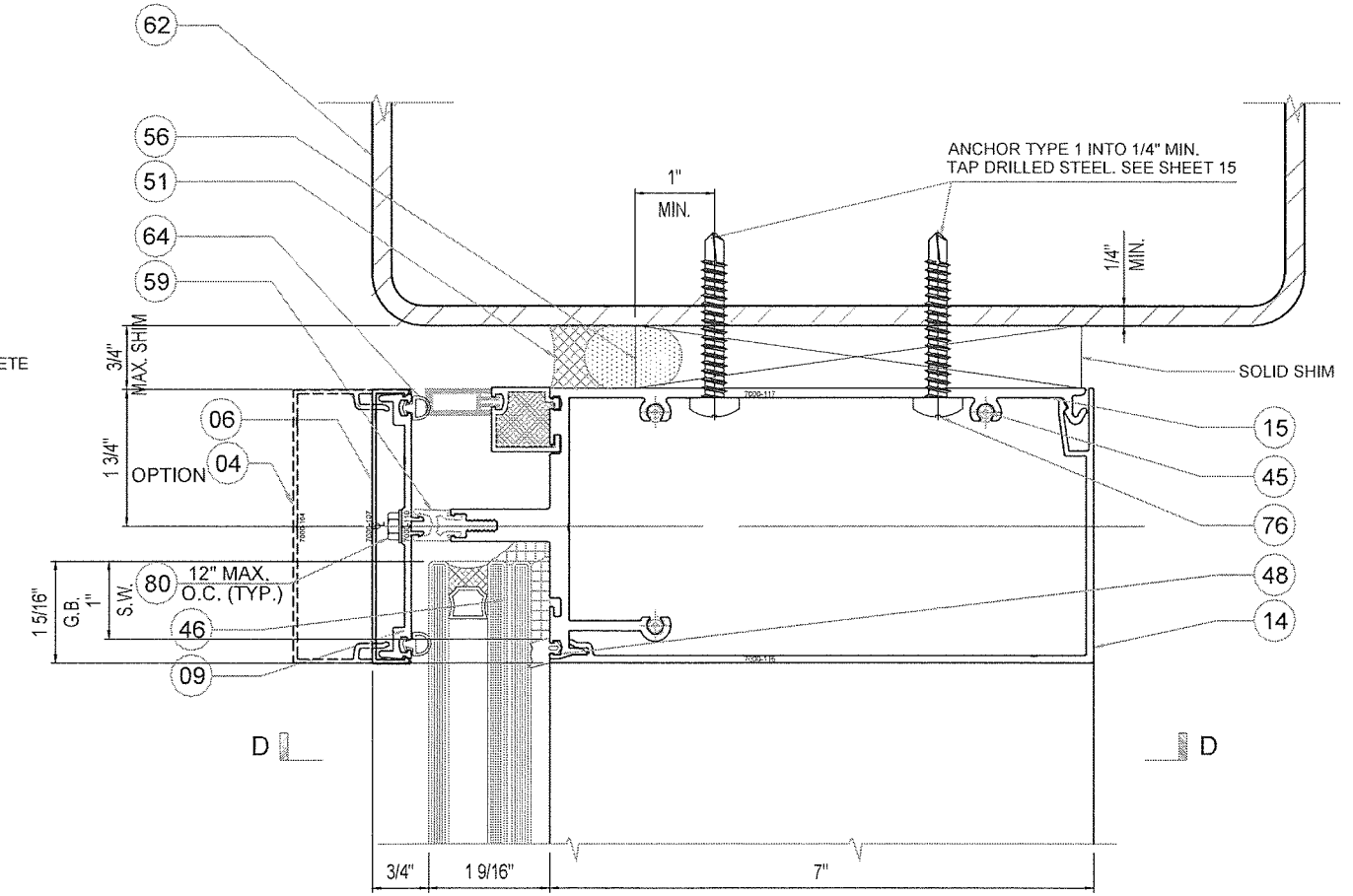


SECTION D-D



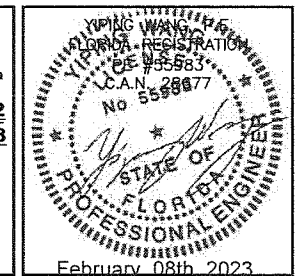
11 HEAD DETAIL OPTION A

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



11 HEAD DETAIL OPTION B

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control
MIAMI DADE COUNTY



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PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	17 OF 38

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REVISIONS

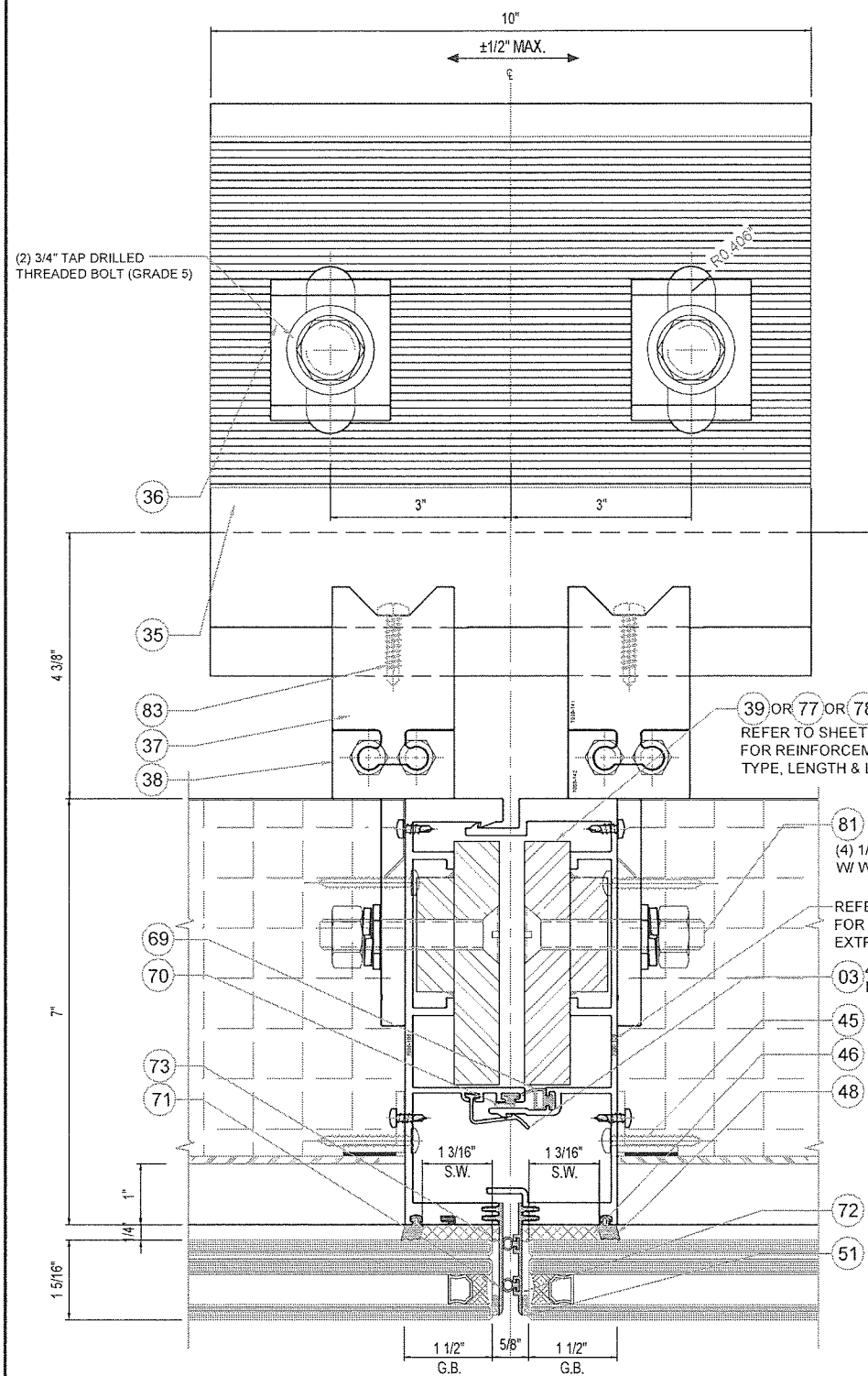
NO.	DATE	DESCRIPTION
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TECNOGLASS, LLC.

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

SERIES 7000 ALUMINUM CURTAIN WALL - SMI



(2) 3/4" TAP DRILLED ———
THREADED BOLT (GRADE 5)

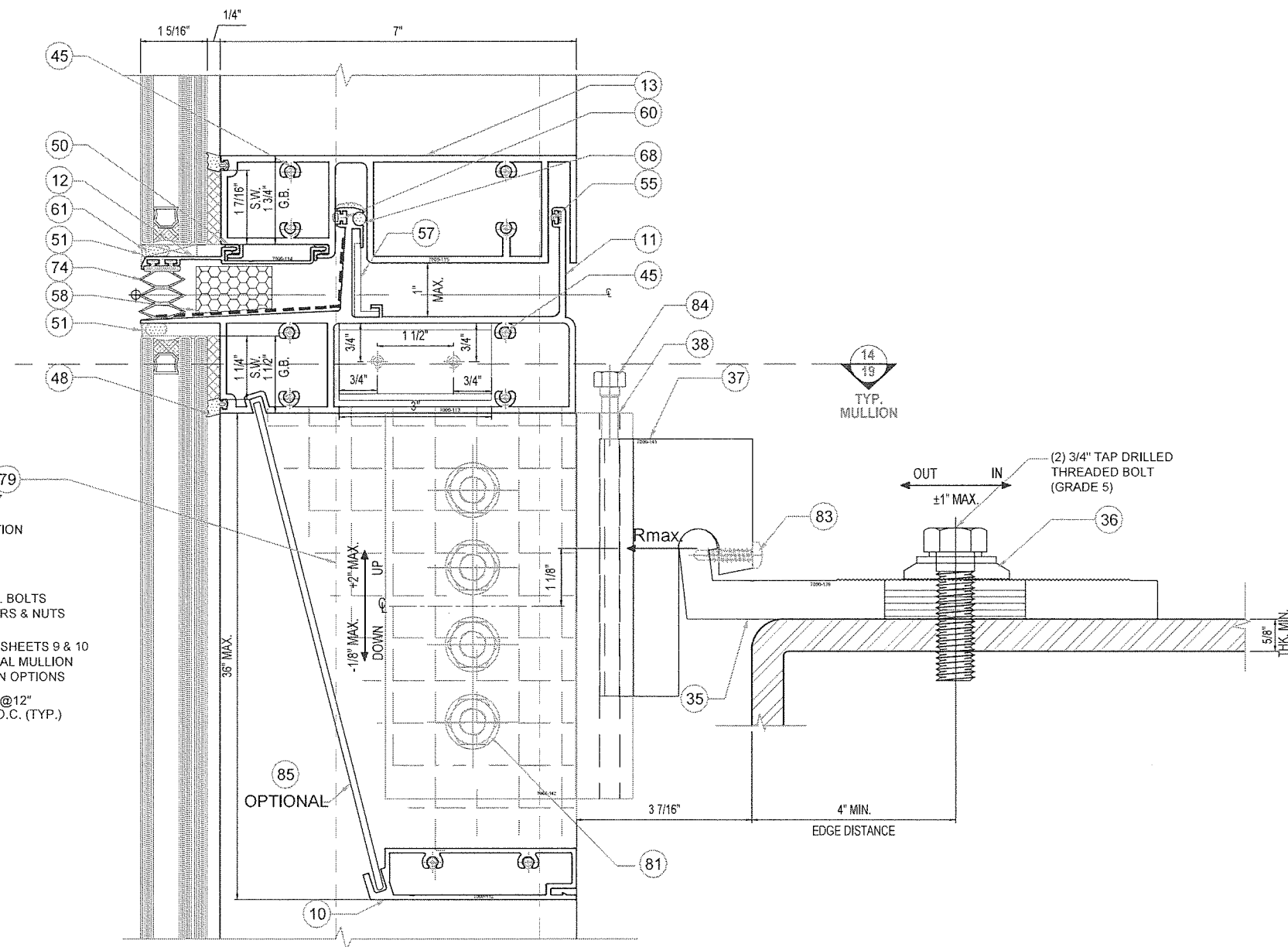
39 OR 77 OR 78 OR 79
REFER TO SHEETS 6 & 7
FOR REINFORCEMENT
TYPE, LENGTH & LOCATION

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.)

14 TYP. MULLION - ANCHOR TYPE B
19



TYP.
MULLION

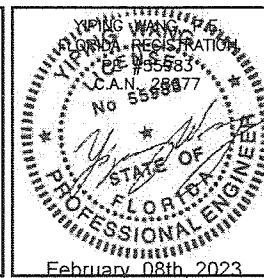
(2) 3/4" TAP DRILLED
THREADED BOLT
(GRADE 5)

OPTIONAL

15 EXP. JOINT - ANCHOR TYPE B
19 SECTION

PRODUCT REVISED
as complying with the Florida
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NOA-No. 23-0208.02
Expiration Date: 06/06/2028
By: Manuel Perez
Miami-Dade Product Control

MIAMI DADE COUNTY



February 08th 2023

REVISIONS	
NO.	DATE DESCRIPTION
5	1/18/23 RENEWAL

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SERIES 7000 ALUMINUM CURTAIN WALL - SMI

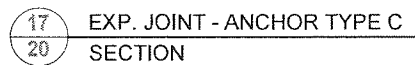
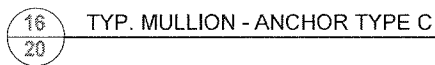
TECNOGLASS, LLC.

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DATE	1/18/2023
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PROJECT	MCY15-088

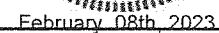
DRAWING NO.
AD12-65

SHEET 19 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

MIAMI DADE COUNTY

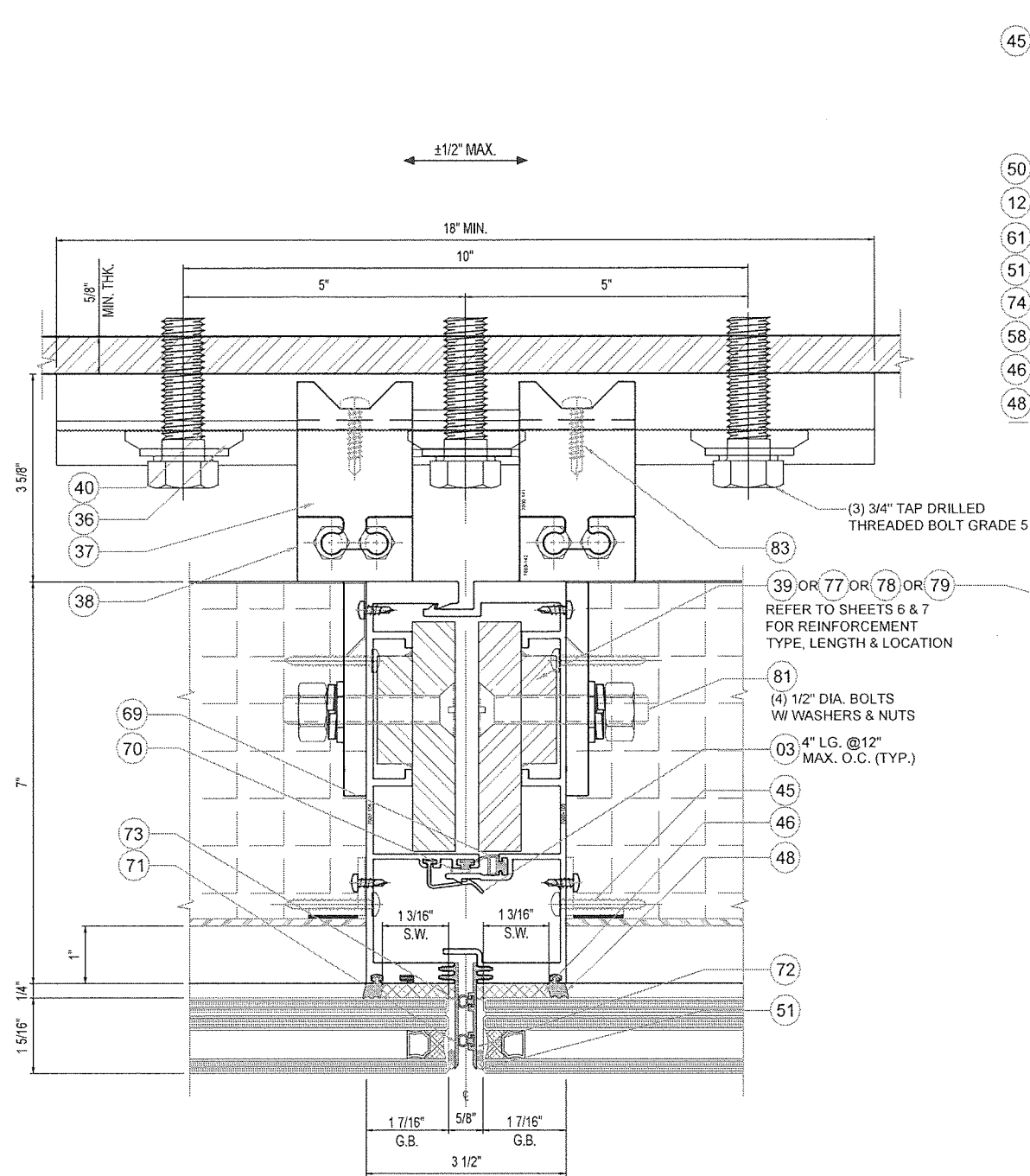
SHEET 20 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

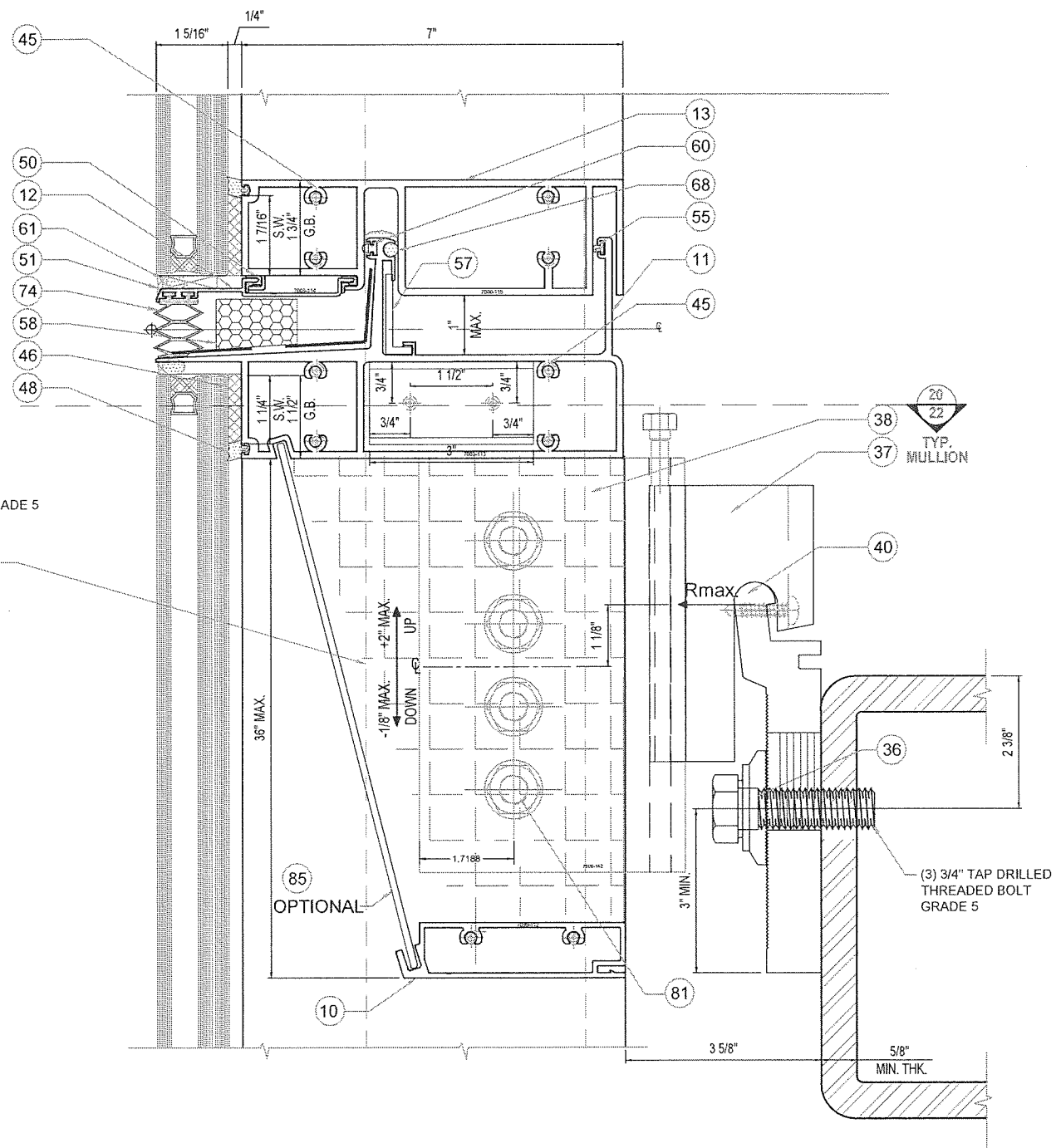
TECNOGLASS, LLC.

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Phone (305) 342-0890 Fax (786) 513-3985

TECNOGLASS, LLC.



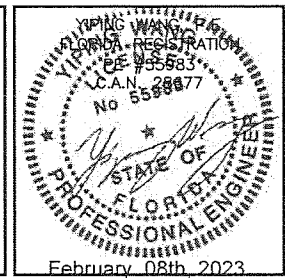
20 TYP. MULLION - ANCHOR TYPE D
22



21 EXP. JOINT - ANCHOR TYPE D
22 SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 22 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

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

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARK WAY #301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224

www.MCYEngineering.com

MCY@mcyengineering.com

REVISIONS

NO. DATE DESCRIPTION

1/18/23 RENEWAL

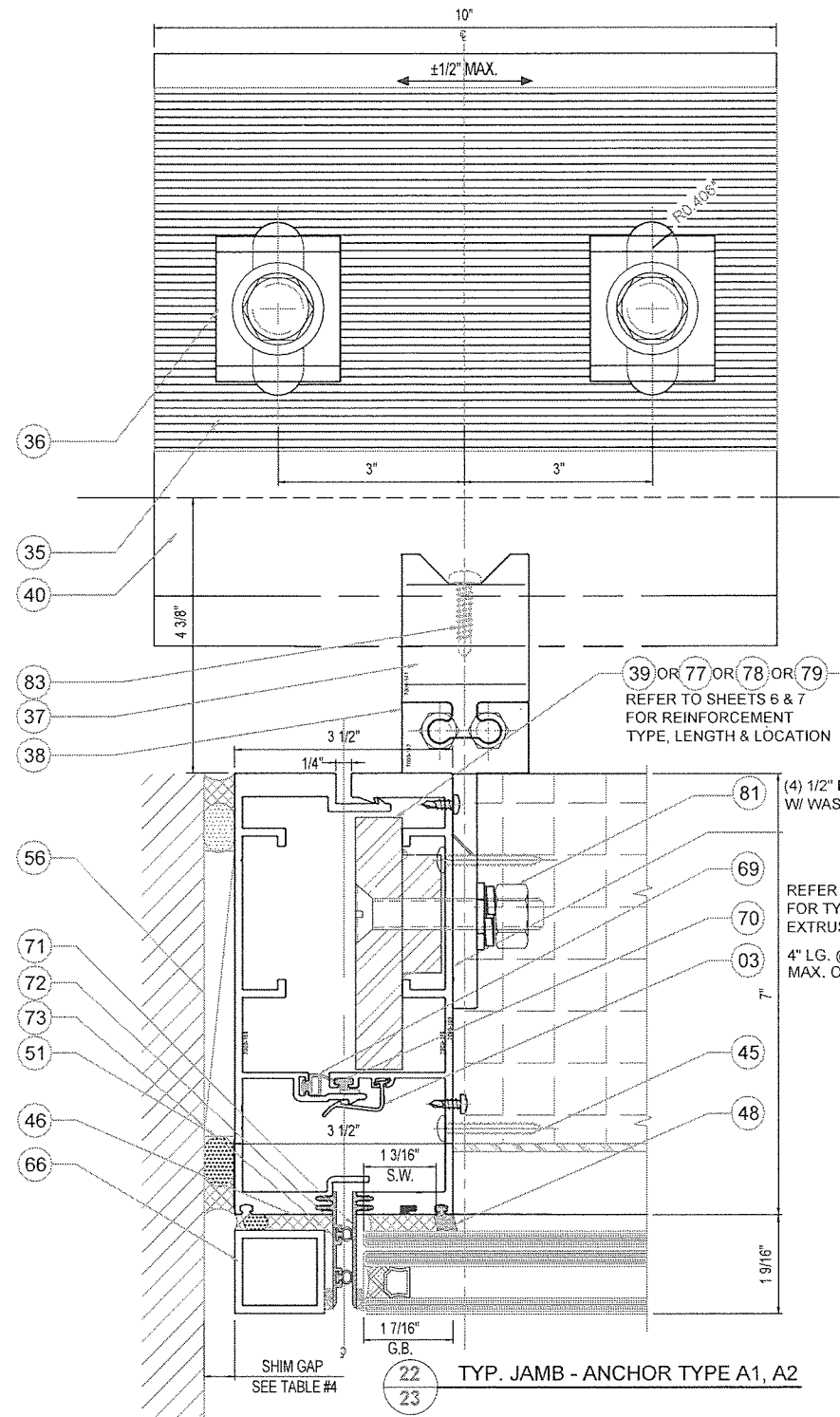
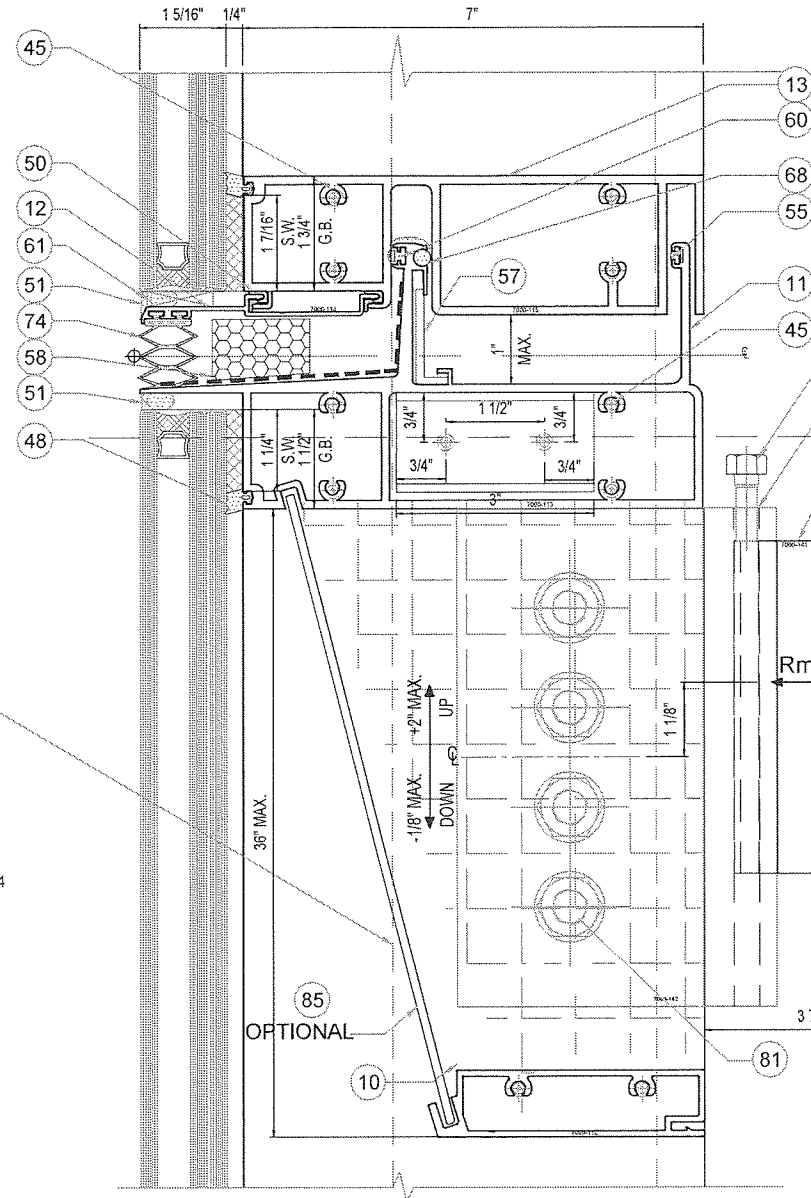


TABLE #4: MIN/MAX SHIM GAP

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_L TO C_L

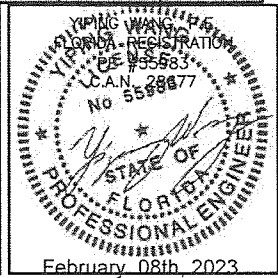


23 JAMB EXP. JOINT - ANCHOR TYPE A1, A2
23 SECTION

	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M.S.)				
	(in)	36	42	48	54	60
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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Fernandez*
Miami-Dade Product Control

MIAMI DADE COUNTY



DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 23 OF 38

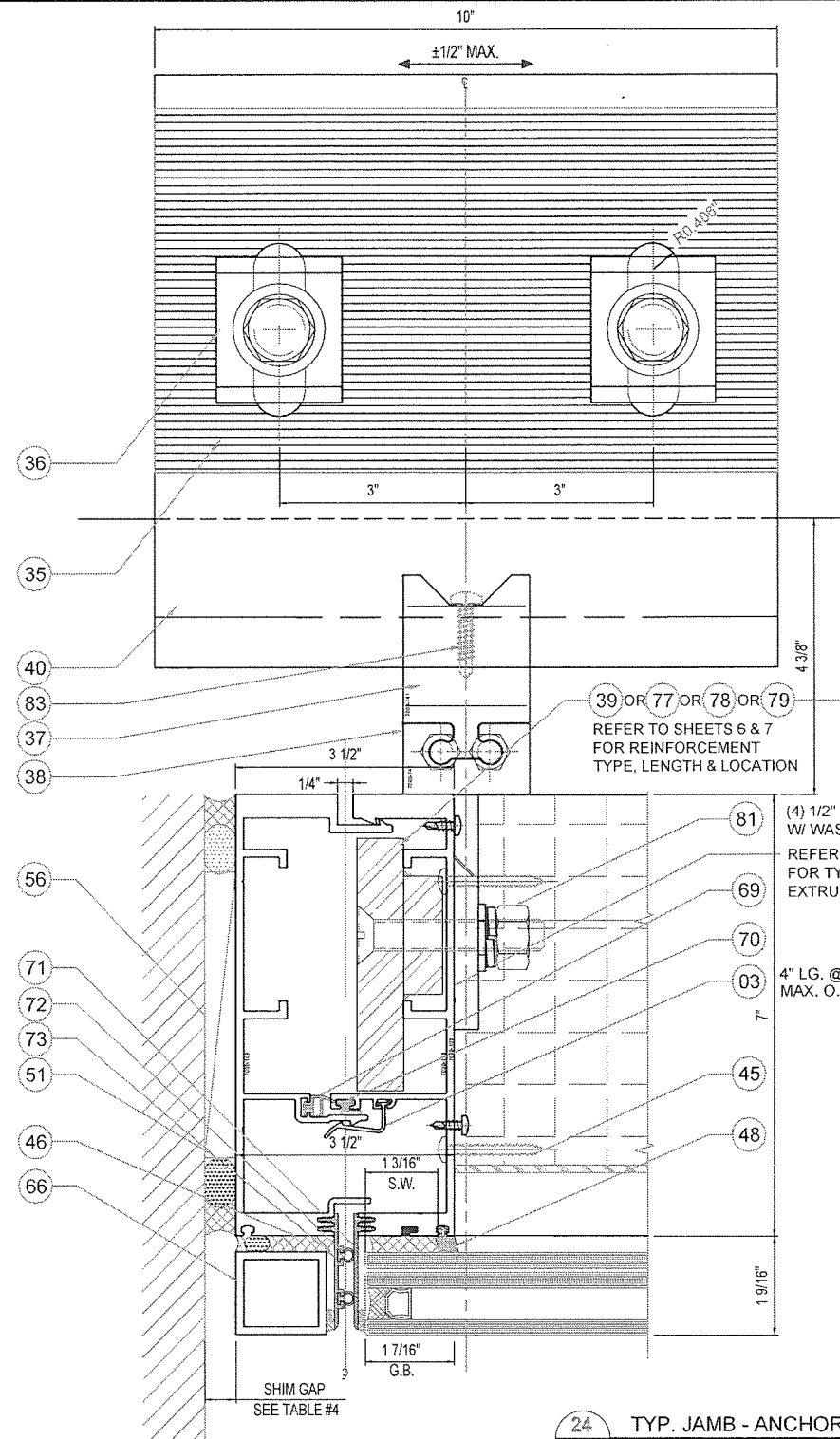
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARK WAY #301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.568.5224

www.MCYEngineering.com MCY@mcyengineering.com

REVISIONS	NO.	DATE	DESCRIPTION
	1	1/18/23	RENEWAL

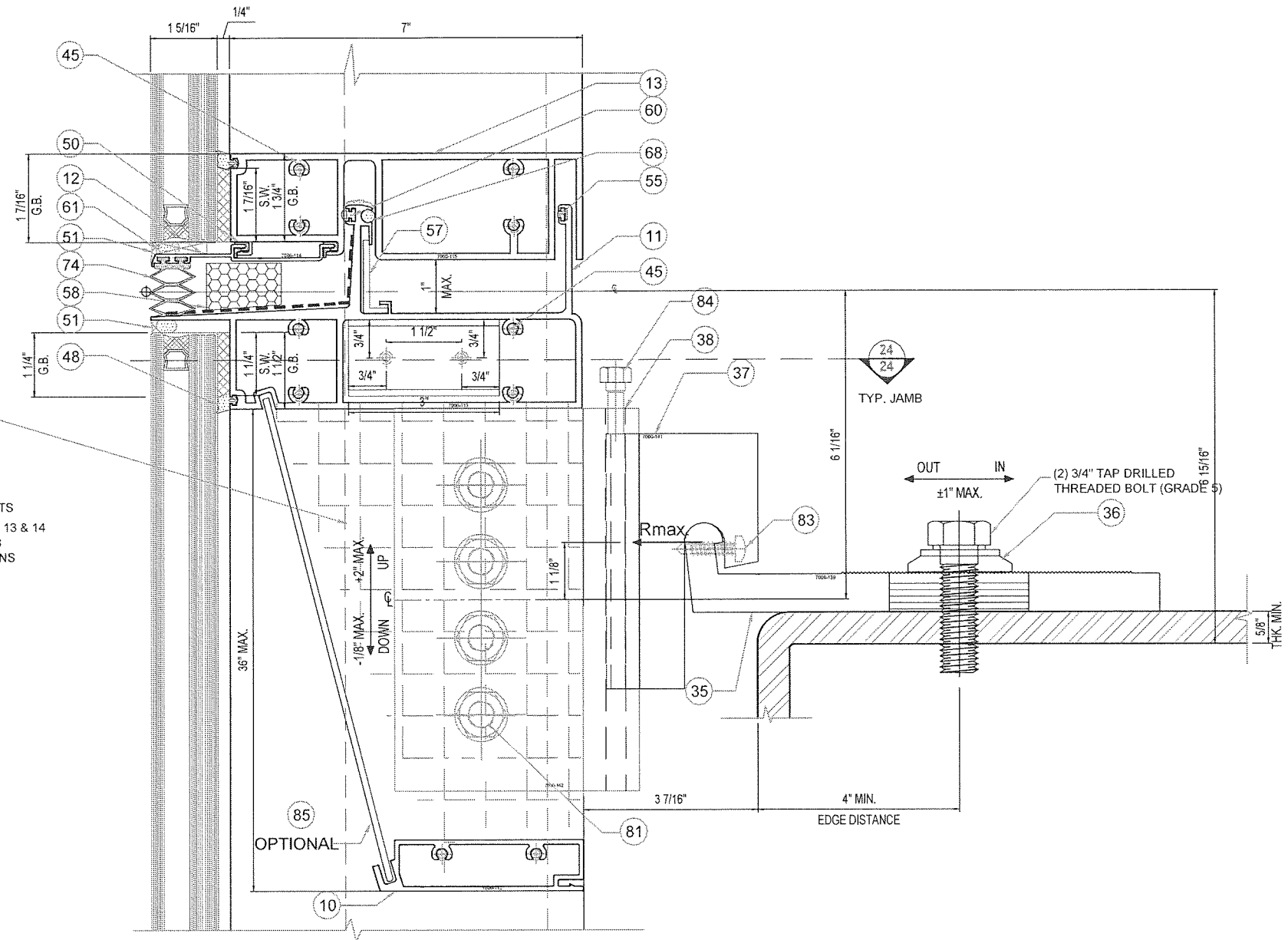


24
24 TYP. JAMB - ANCHOR TYPE B1

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"

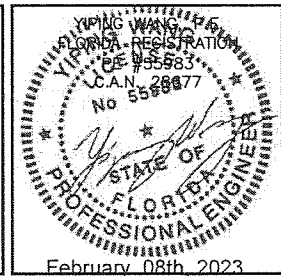
*JAMB SPAN: - ANCHOR C TO C



25
24 JAMB EXP. JOINT - ANCHOR TYPE B1 SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel J. Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



February 08th, 2023

DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 24 OF 38

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

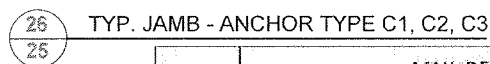
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARK WAY #301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224

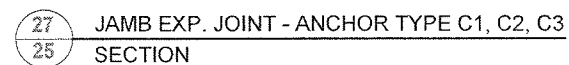
www.MCYEngineering.com

MCY@mcyengineering.com

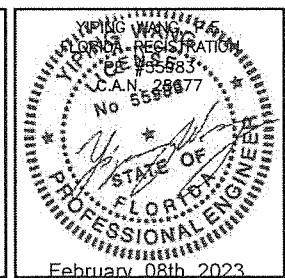
REVISIONS
NO. DATE DESCRIPTION
1 1/18/23 RENEWAL



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



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0208.02
Expiration Date: 06/06/2028
By: Manuel Perez
Miami-Dade Product Control



DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088

DRAWING NO.
AD12-65

SHEET 25 OF 38

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

GLAZING CONSULTANTS

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MIRAMAR, FL 33027 F: 305.588.5224

www.MCYEngineering.com MCY@mcysengineering.com

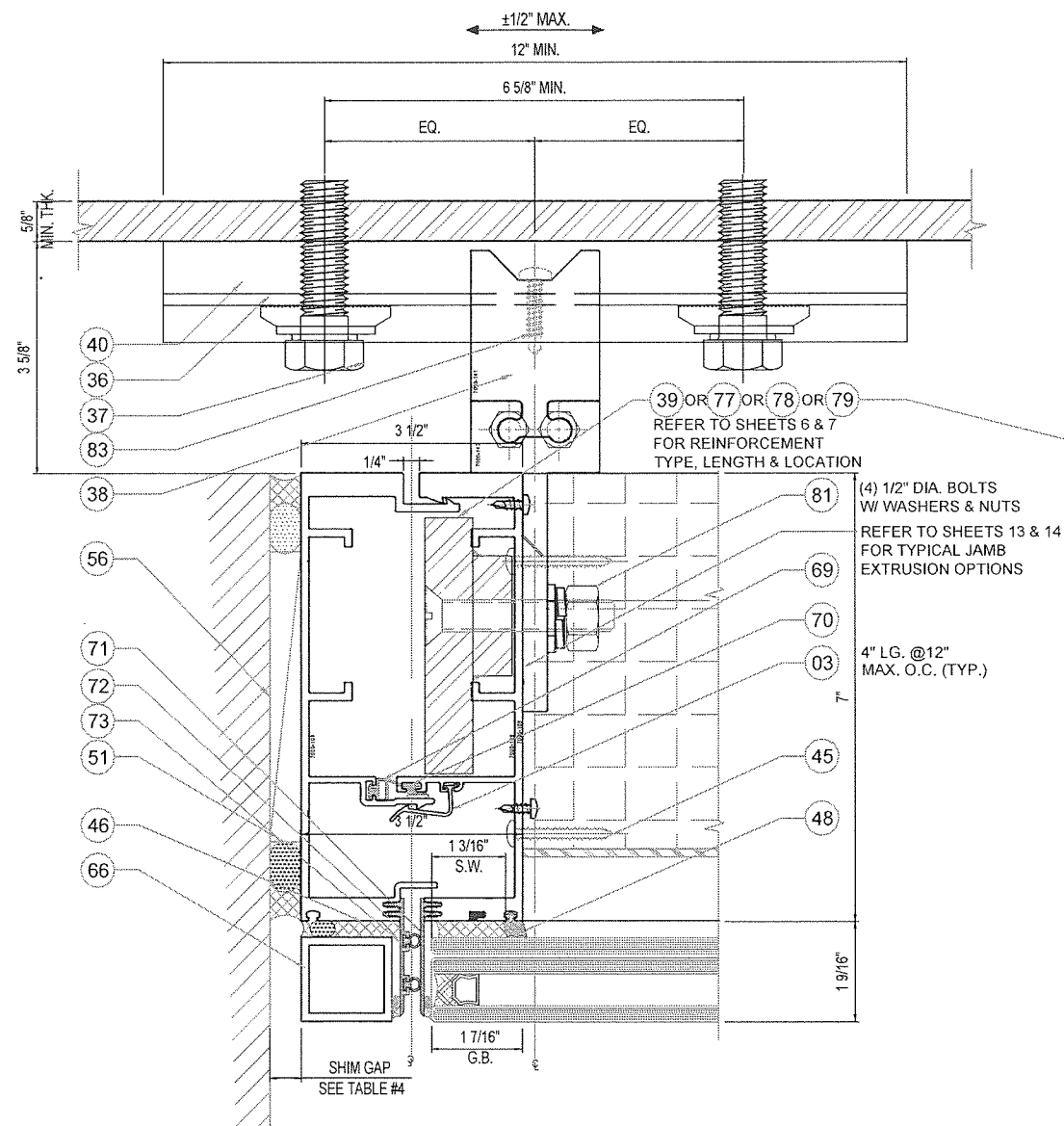
SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

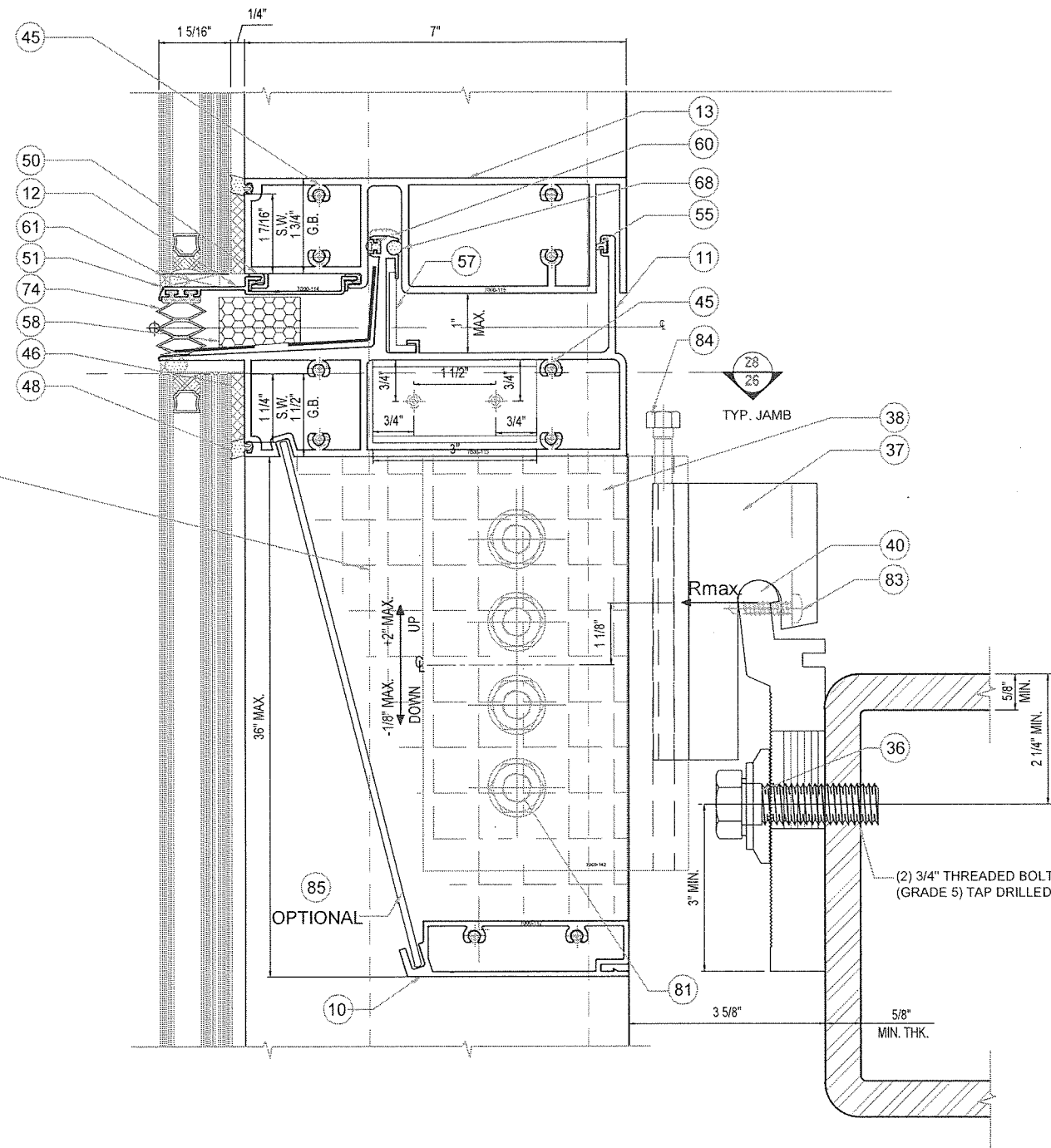
3550 NW 49th Street, MIAMI, FL 33142
(305) 342-0800 Fax (786) 513-

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

REVISIONS	
NO.	DATE DESCRIPTION
3	1/18/23 RENEWAL



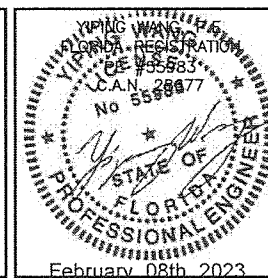
28 TYP. JAMB - ANCHOR TYPE D1
26



29 JAMB EXP. JOINT - ANCHOR TYPE D1
26 SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Fern*
Miami-Dade Product Control

MIAMI DADE COUNTY



DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 26 OF 38

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

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GLAZING CONSULTANTS

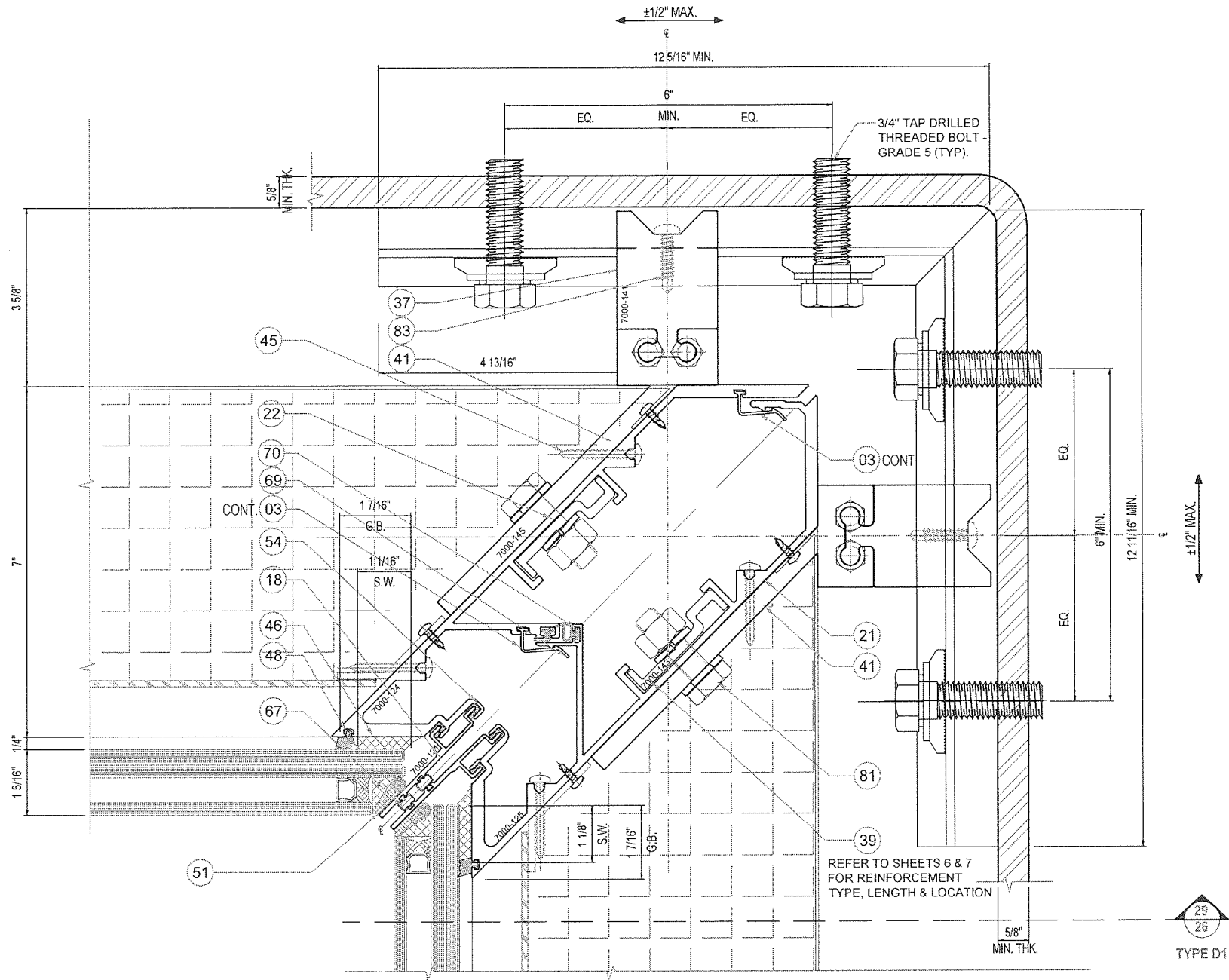
12781 MIRAMAR PARK WAY #301 P: 305.271.0117
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REVISIONS	NO.	DATE	DESCRIPTION
	1	1/18/23	RENEWAL

REVISIONS	
NO.	DATE DESCRIPTION
1	1/18/23 RENEWAL

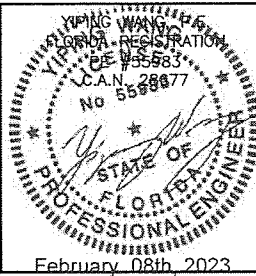
32
29

INSIDE CORNER MULL. - ANCHOR TYPE D1



PRODUCT REVISED
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NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
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Miami-Dade Product Control

MIAMI DADE COUNTY



DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

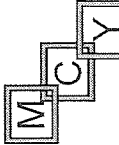
SHEET 29 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

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

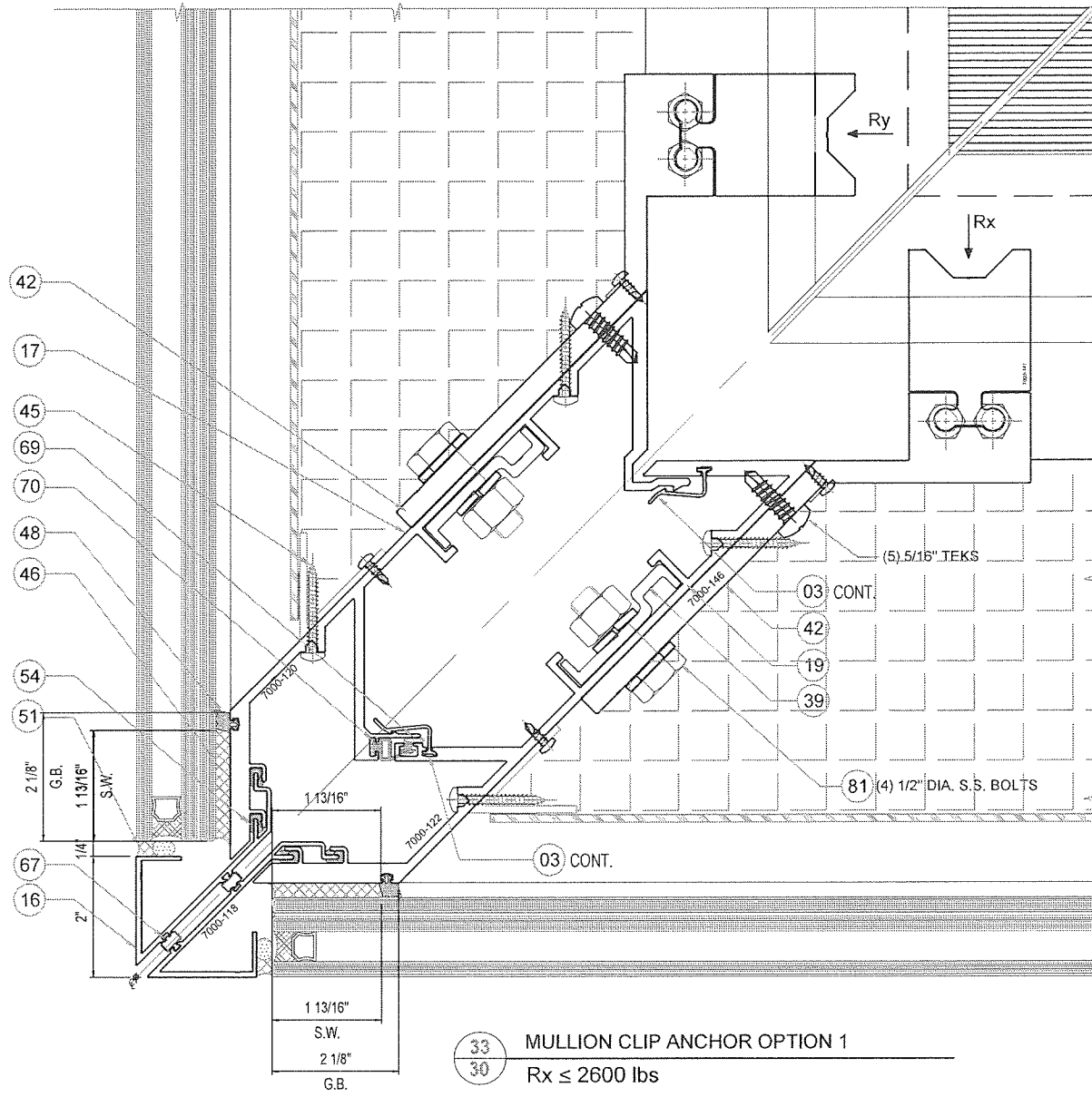
MCY ENGINEERING, INC.
GLAZING CONSULTANTS



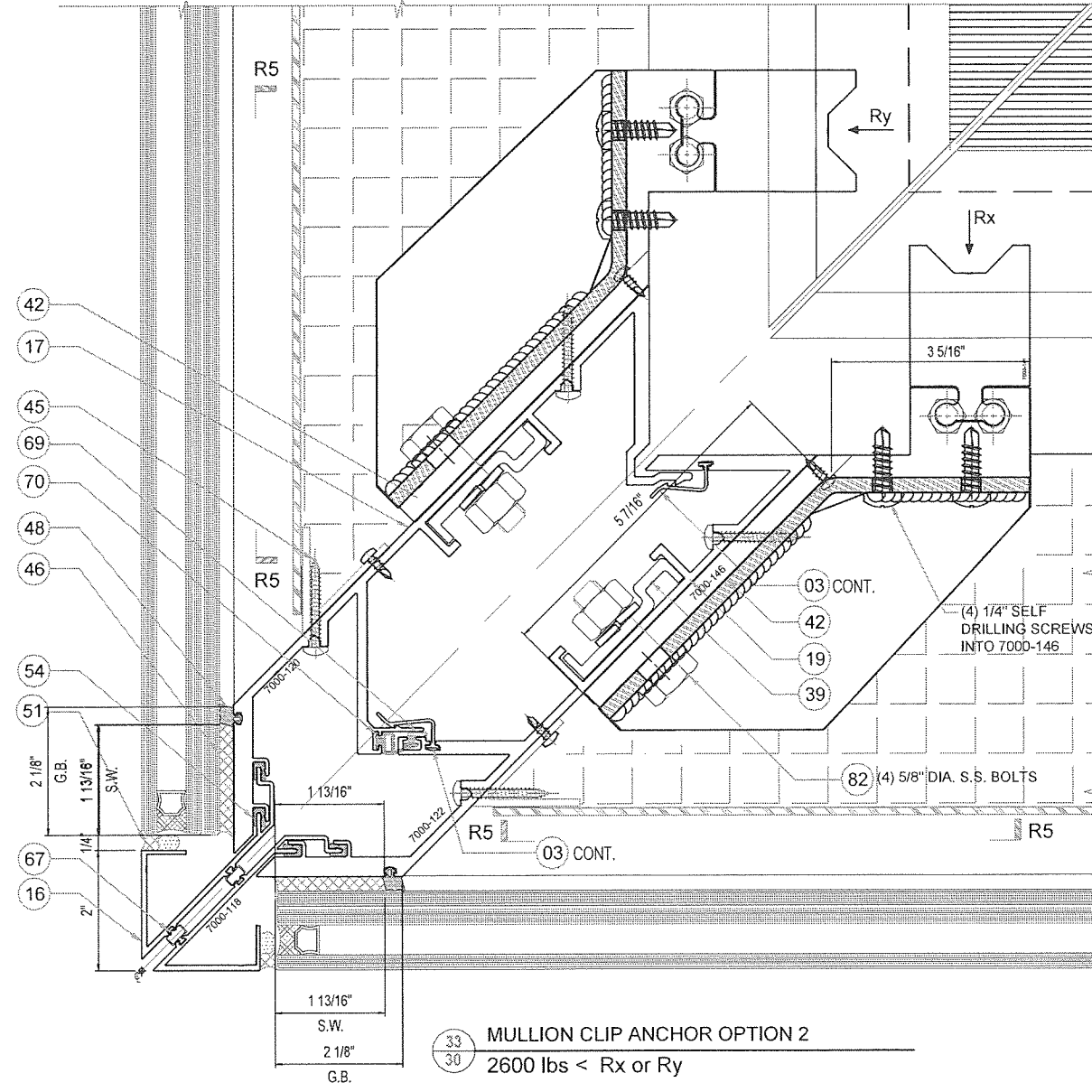
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REVISIONS
NO. DATE DESCRIPTION
A 1/18/23 RENEWAL

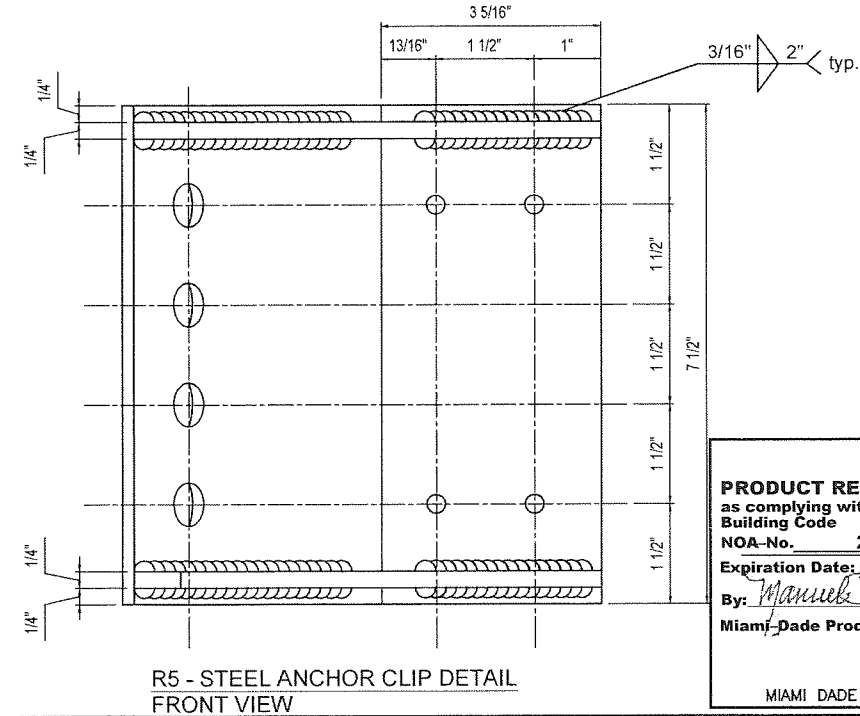


33
30 MULLION CLIP ANCHOR OPTION 1
Rx ≤ 2600 lbs



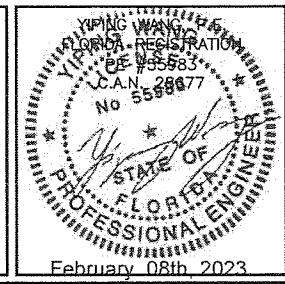
33
30 MULLION CLIP ANCHOR OPTION 2
2600 lbs < Rx or Ry

	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M. S.)				
	(in)	36 (in)	42 (in)	48 (in)	54 (in)	60 (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



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
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Miami-Dade Product Control

MIAMI DADE COUNTY



DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 30 OF 38

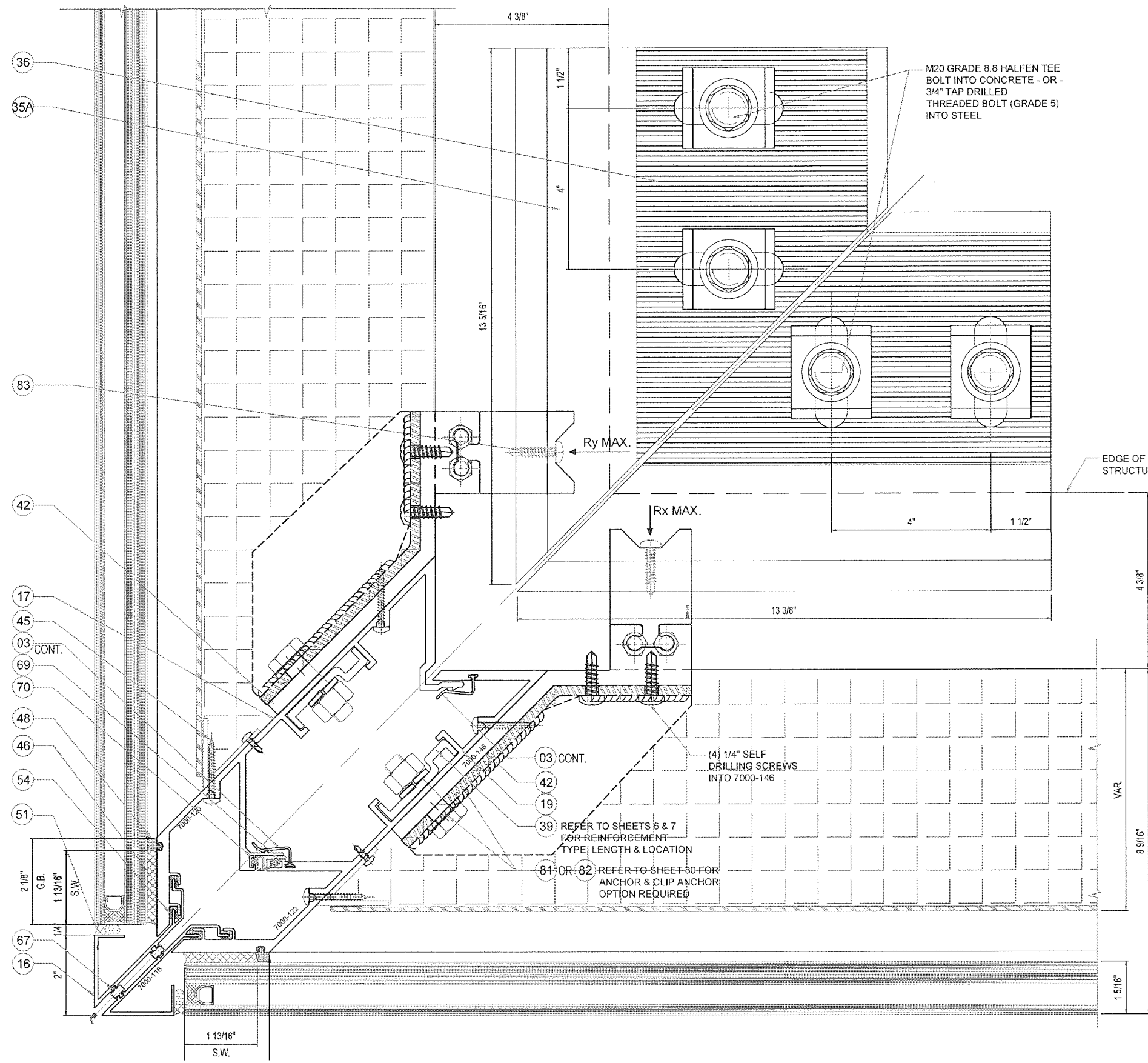
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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MIRAMAR, FL 33027 F: 305.588.5224

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NO.	DATE	DESCRIPTION
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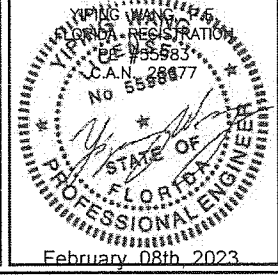


M20 GRADE 8.8 HALFEN TEE BOLT INTO CONCRETE - OR - 3/4" TAP DRILLED THREADED BOLT (GRADE 5) INTO STEEL

35 32 TYPE E 36 33 TYPE F

34 31 OUTSIDE CORNER MULL. ANCHOR TYPE E OR F

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Fern*
Miami-Dade Product Control
MIAMI DADE COUNTY

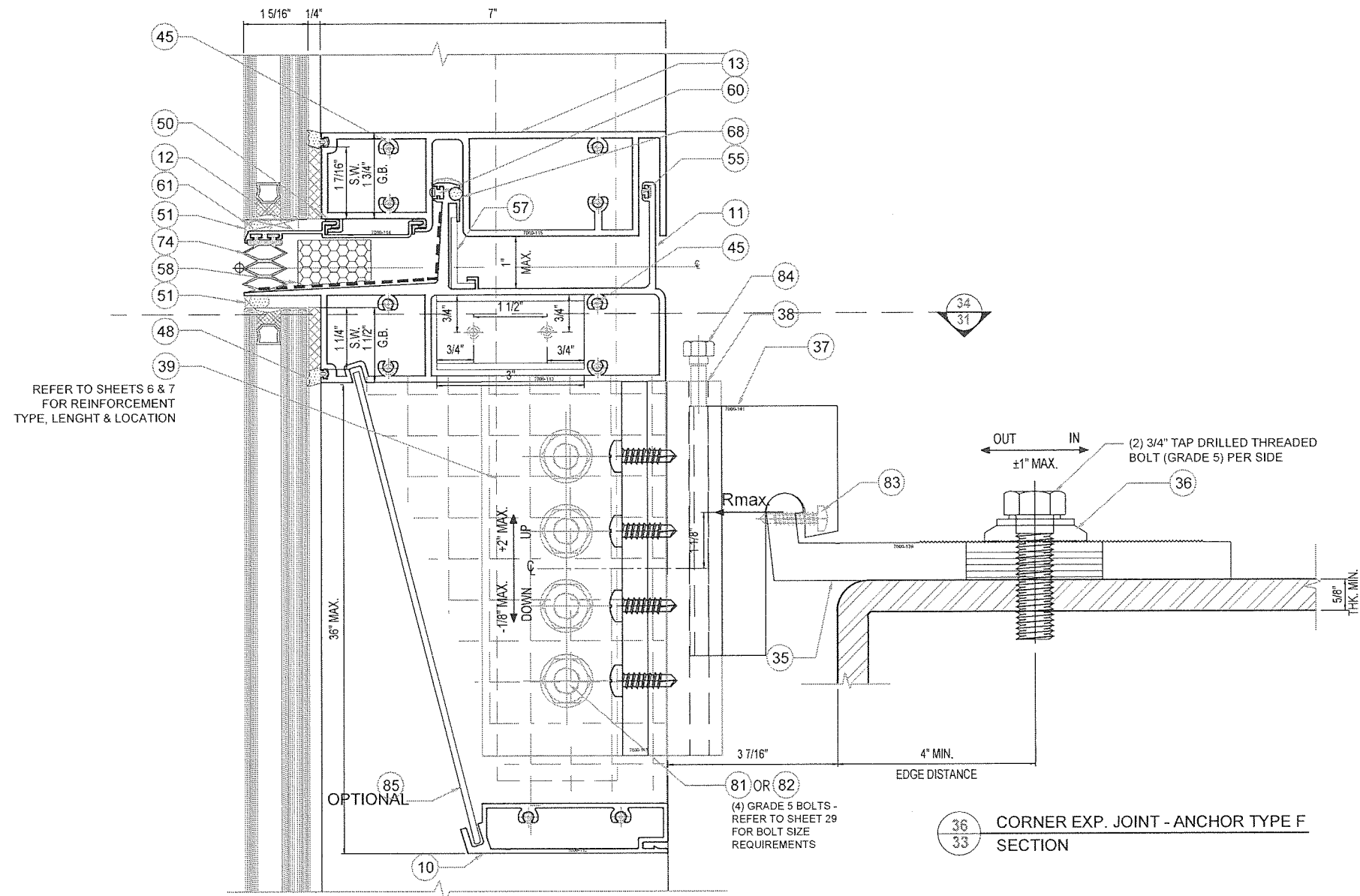


DATE 1/18/2023
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088
DRAWING NO. AD12-65
SHEET 31 OF 38

REVISIONS
NO. DATE DESCRIPTION
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MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARK WAY #301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

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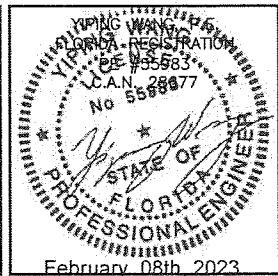


REFER TO SHEETS 6 & 7
FOR REINFORCEMENT
TYPE, LENGTH & LOCATION

36
33 CORNER EXP. JOINT - ANCHOR TYPE F
SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



DATE	1/18/2023
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	33 OF 38

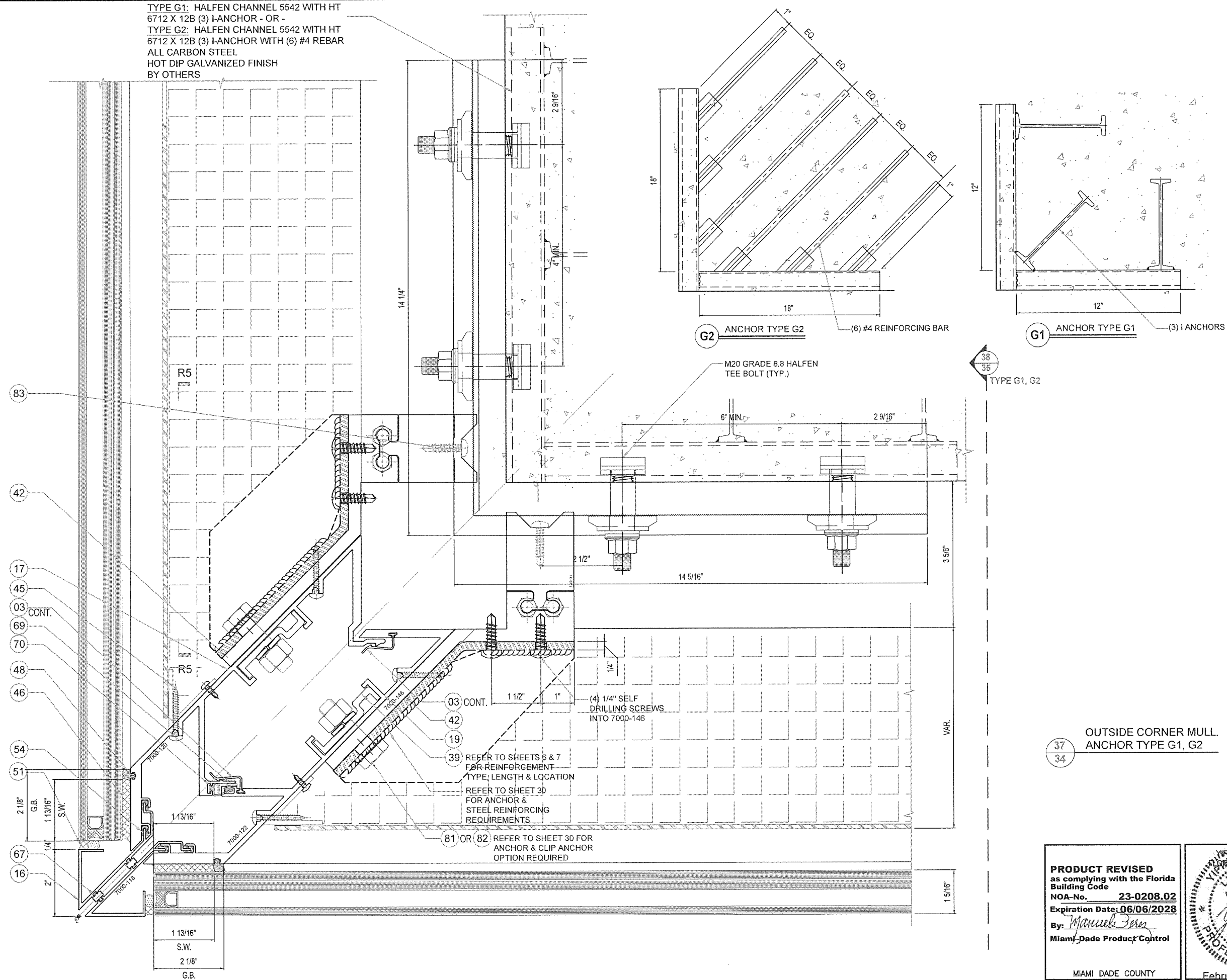
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

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NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL

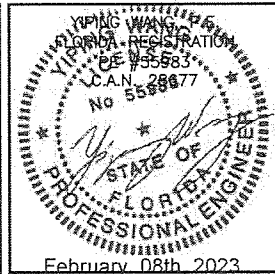
TYPE G1: HALFEN CHANNEL 5542 WITH HT
6712 X 12B (3) I-ANCHOR - OR -
TYPE G2: HALFEN CHANNEL 5542 WITH HT
6712 X 12B (3) I-ANCHOR WITH (6) #4 REBAR
ALL CARBON STEEL
HOT DIP GALVANIZED FINISH
BY OTHERS



OUTSIDE CORNER MULL.
ANCHOR TYPE G1, G2

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0208.02
Expiration Date: 06/06/2028
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



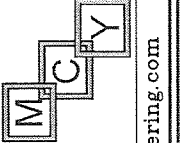
DATE 1/18/2023
SCALE AS NOTED
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PROJECT MCY15-088

DRAWING NO.
AD12-65

SHEET 34 OF 38

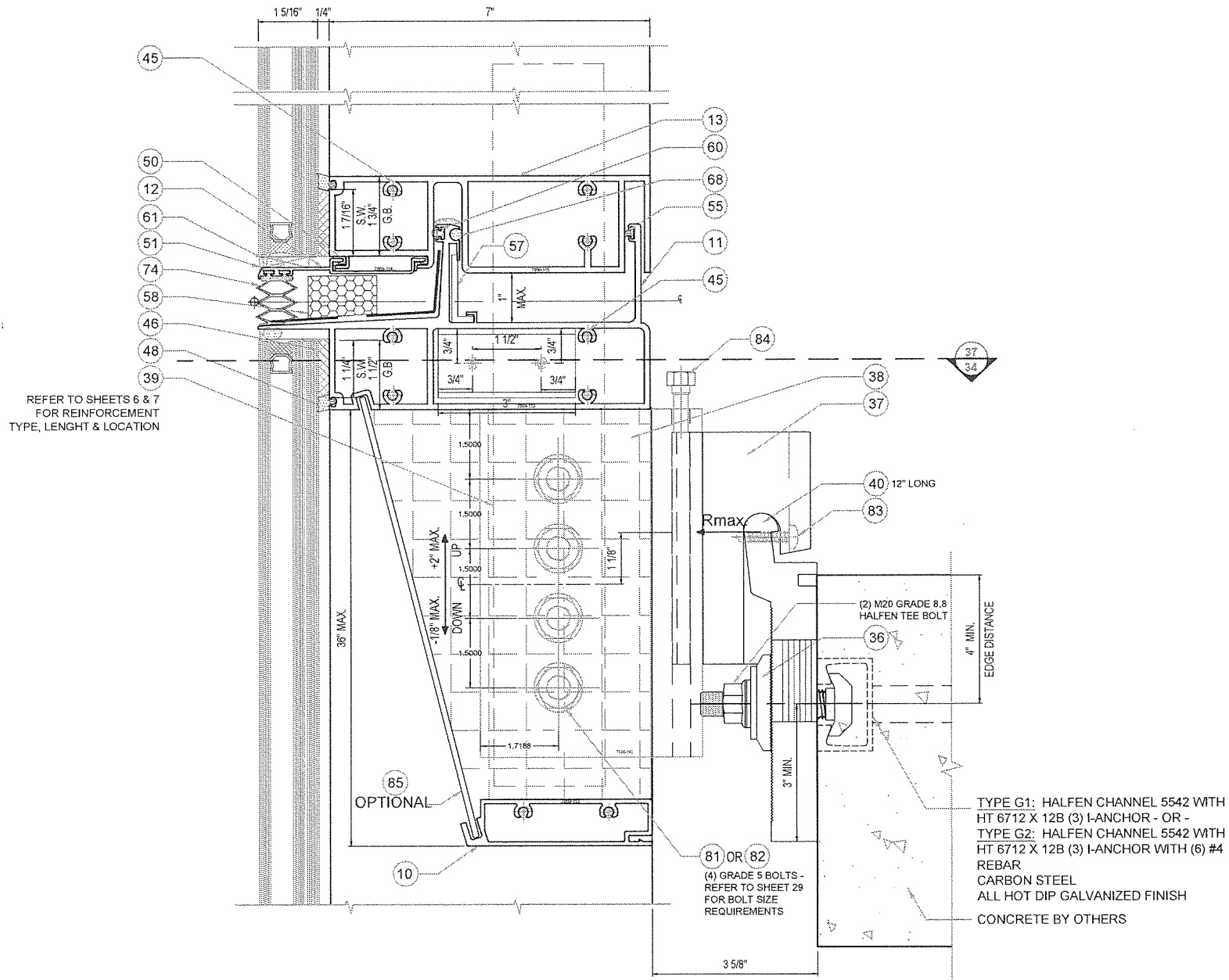
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
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Phone (305) 342-0890 Fax (786) 513-3965

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GLAZING CONSULTANTS



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NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL

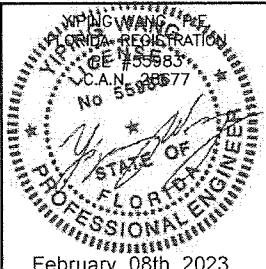


38
35 CORNER EXP. JOINT - ANCHOR TYPE G1, G2
SECTION

	SPAN	MAX. DESIGN LOAD (PSF)				
		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

PRODUCT REVISED
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Miami-Dade Product Control

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DRAWING NO.
AD12-65

SHEET 35 OF 38

REVISIONS
NO. DATE DESCRIPTION
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MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARK WAY #301 P: 305.271.0117

MIRAMAR, FL 33027 F: 305.588.5224

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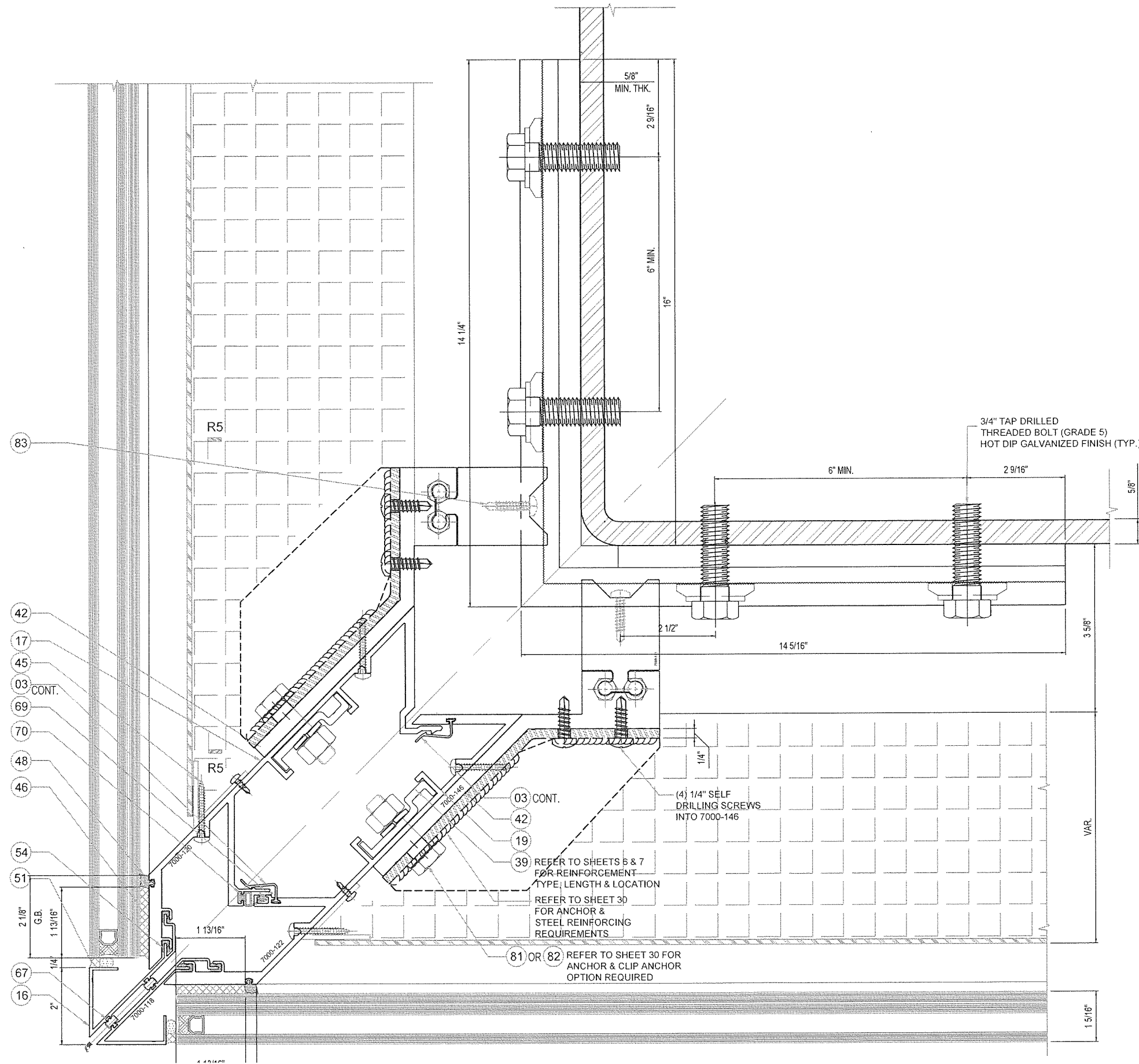
MCY@mcyeengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

3550 NW 49th Street, MIAMI, FL 33142

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

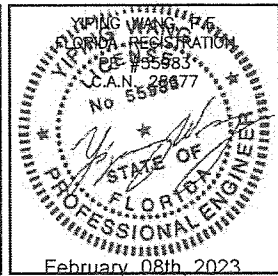


40
37
TYPE H

39
36
OUTSIDE CORNER MULL.
ANCHOR TYPE H

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0208.02**
Expiration Date: **06/06/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MIAMI DADE COUNTY



DATE	1/18/2023
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DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO. AD12-65	
SHEET 36 OF 38	

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

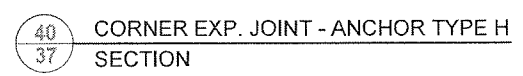
TECNOGLASS, LLC.

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NO.	DATE	DESCRIPTION
1	1/18/23	RENEWAL



REVISIONS	
NO.	DATE DESCRIPTION
1	1/18/23 RENEWAL

ITEM #					DESCRIPTION					MATERIAL					GLASSWALL PARTS #					MANUF. / REMARKS				
01					FEMALE MULLION EXTENDED LEG					6063-T6					7000-101									
02					MALE MULLION					6063-T6					7000-102									
03					ANTI-BUCKLING CLIP					6063-T6					7000-103					4" LG. @ 12" O.C. MAX. TYP. CONT. AT CORNER MULLION				
04					EXTENDED BEAUTY CAP					6063-T6					7000-104									
05					MALE MULLION EXTENDED LEG					6063-T6					7000-105									
06					BEAUTY CAP					6063-T6					7000-107									
07					FEMALE MULLION BUTT GLAZED					6063-T6					7000-108									
08					MALE MULLION BUTT GLAZED					6063-T6					7000-109									
09					PRESSURE PLATE					6063-T6					7000-110									
10					HORIZONTAL AT STACK JOINT					6063-T6					7000-112									
11					CHICKEN HEAD					6063-T6					7000-113									
12					STACK JOINT FIN					6063-T6					7000-114					CONT.				
13					EXPANSION SILL					6063-T6					7000-115									
14					HEAD SILL COVER					6063-T6					7000-116									
15					HEAD/SILL					6063-T6					7000-117									
16					EXTERIOR CORNER COVER					6063-T6					7000-118									
17					EXTERIOR CORNER MALE MULLION					6063-T6					7000-120									
18					INTERIOR CORNER FIN					6063-T6					7000-121									
19					EXTERIOR CORNER FEMALE MULLION					6063-T6					7000-122									
20					INTERIOR CORNER FIN					6063-T6					7000-123									
21					INTERIOR CORNER FEMALE MULLION					6063-T6					7000-124									
22					INTERIOR CORNER MALE MULLION					6063-T6					7000-125									
23					CHICKEN HEAD SUB-SILL					6063-T6					7000-126									
24					SILL					6063-T6					7000-127									
25					HORIZONTAL MULLION					6063-T6					7000-128									
26					HORIZONTAL BUTT GLAZED					6063-T6					7000-129									
27					HORIZONTAL BUTT GLAZED FIN					6063-T6					7000-130					6" LG. (2) AT EA. PANEL AT 1/4 POINT				
28					CRESCENT FEMALE MULLION					6063-T6					7000-131									
29					CRESCENT MALE MULLION					6063-T6					7000-132									
30					HEAD BUTT GLAZED					6063-T6					7000-133									
31					STACK JOINT COVER					6063-T6					7000-134									
32					CHICKEN HEAD WITHOUT COVER					6063-T6					7000-135									
33					SILL COVER					6063-T6					7000-136									
34					SILL COVER BUNGALOW					6063-T6					7000-137									
35					SLAB ANCHOR					6061-T6					7000-139									
35A					CORNER SLAB ANCHOR					6061-T6					7000-139A									
36					SERRATE WASHER					6061-T6					7000-140									
37					MULLION ANCHOR HOOK					6061-T6					7000-141									
38					MULLION ANCHOR FIST					6061-T6					7000-142									
39					ALUMINUM SPLI CE - AS-1					6061-T6					7000-143									
40					SHEAR ANCHOR PLATE					6061-T6					7000-144									
41					INSIDE CORNER ANCHOR FIST					6061-T6					7000-145									
42					OUTSIDE CORNER ANCHOR FIST					6061-T6					7000-146									
43					RAILING COVER					6063-T6					7000-149									
44					HORIZONTAL RAILING					6063-T6					7000-150									
45					# 14 X 11/2" LG. PH. SMS. 18-8 CW SERIES ASSY. SCREW					STAINLESS STEEL					-									
46					STRUCTURAL SILICONE					SILICONE					GE SSG 4600					SEE CHART SHEET 07				
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	
NO DATE DESCRIPTION	
A/18/23 RENEWAL	

M C Y	
MCY ENGINEERING, INC.	
GLAZING CONSULTANTS	
12781 MIRAMAR PARK WAY #301 P: 305.271.0117	
MIRAMAR, FL 33027 F: 305.568.5224	
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	1/18/2023
SCALE	AS NOTED