



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

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

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 07/08/16, with revision #2 dated 03/30/18, 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. **15-0625.06** 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.**



Handwritten signature and date: 8/20/18

NOA No. 18-0403.08
Expiration Date: June 06, 2023
Approval Date: August 30, 2018
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 through 38 of 38, dated 07/08/16, with revision #1 dated 06/04/15, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

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.
2. Glazing complies with **ASTM E1300-09**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Kuraray Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 18-0403.08

Expiration Date: June 06, 2023
Approval Date: August 30, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, of complying with **FBC 5th Edition (2014)**, dated June 4, 2015, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E
2. Statement letter of no financial interest, dated 06/04/15, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
3. Asset purchase agreement dated 02/09/15, signed by Mr. Massimo Valentini and Mr. Andres Chamorro.
4. 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.
5. 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)*
6. 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. **12-1126.05**, issued to Glasswall, LLC for their Series "7000" Aluminum Curtain Wall System - S.M.I., approved on 06/06/13 and expiring on 06/06/18.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 18-0403.08

Expiration Date: June 06, 2023
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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 07/08/16, with revision #2 dated 03/30/18, 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. **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.

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.

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. 18-0403.08

Expiration Date: June 06, 2023
Approval Date: August 30, 2018

SERIES 7000 CURTAIN WALL (SMI)

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38	BILL OF MATERIALS

MATERIALS

- A. ALUMINUM:
- 1- ALL ALUMINUM EXTRUSION SHALL BE 6063-T5, 6063-T6 AND 6061-T6 (OR EQUIVALENT) AS SHOWN IN BILL OF MATERIAL
- B. STEEL:
- 1- ALL STEEL FOR CURTAIN WALL SHALL BE ASTM A36 OR A50 AS PER BILL OF MATERIALS. Fy=36ksi OR Fy=50ksi
- 2- ALL STEEL WELDS TO BE ELECTRODE E70
- C. SEALANT:
- 1- APPLY GE SSG 4600 ULTRAGLAZE OR DOW 983 TO SHOP APPLIED METAL TO METAL JOINERY (FRAME ASSEMBLY).
- 2- APPLY DOW CORNING 90 OR GE ULTRA 2700 TO EXTERIOR PERIMETER SEALANT AND FASTENER SEALANT.
- 3- THE GLAZING SEALANT SHALL BE GE SSG 4600 ULTRAGLAZE OR DOW 983.
- 4-ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT.
- D. GLASS:
- 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 6TH EDITION FLORIDA BUILDING CODE (2017) 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
Acceptance No. 18-0403.08
Expiration Date June 6, 2023
By Manuel Perez
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
CAN #286773
MAY 17 2018

DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088

DRAWING NO.
AD12-65

SHEET 01 OF 38

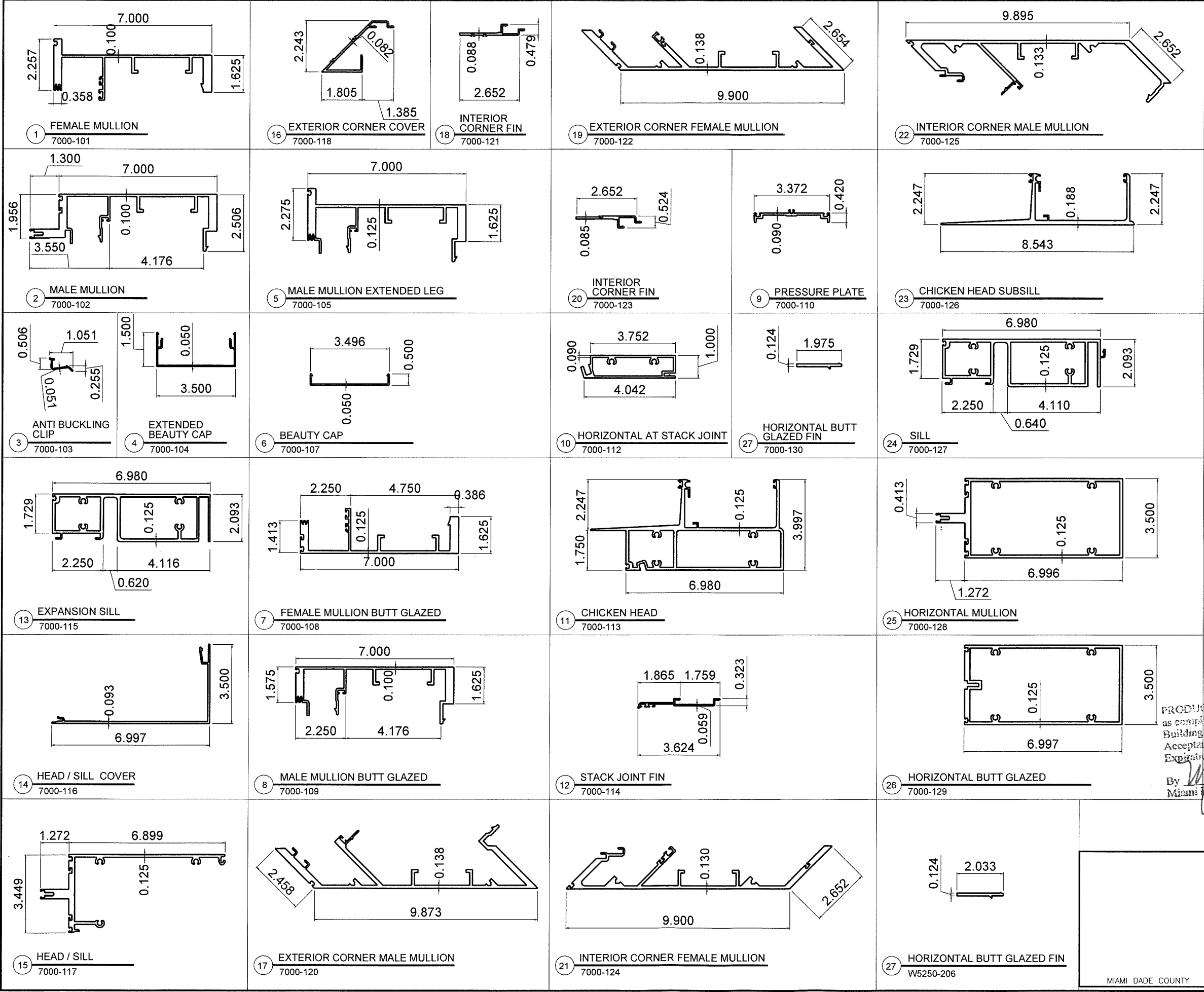
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE. SUITE 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786

www.MCYEngineering.com MCY.Engineering@Att.net

REVISIONS	
NO DATE DESCRIPTION	
1 8/4/15 UPDATE TO 2014 FBC	
2 8/30/18 UPDATE TO 2017 FBC	



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MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 128627
STATE OF FLORIDA
Professional Engineer Seal

REVISES	
NO DATE	DESCRIPTION
1	6/4/15 UPDATE TO 2014 FBC
2	6/30/16 UPDATE TO 2017 FBC

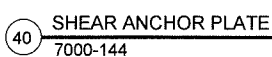
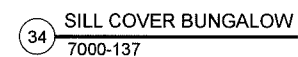
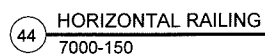
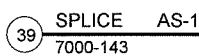
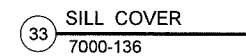
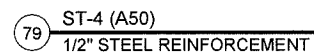
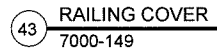
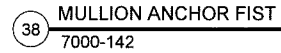
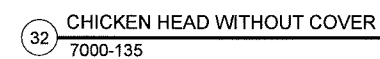
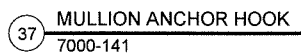
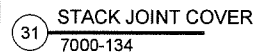
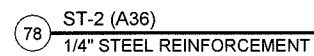
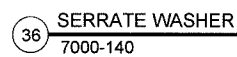
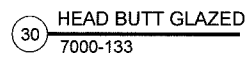
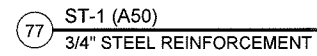
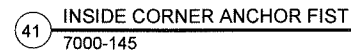
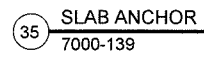
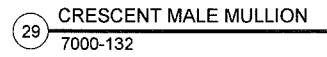
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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8501 SW 124 AVE. SUITE 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

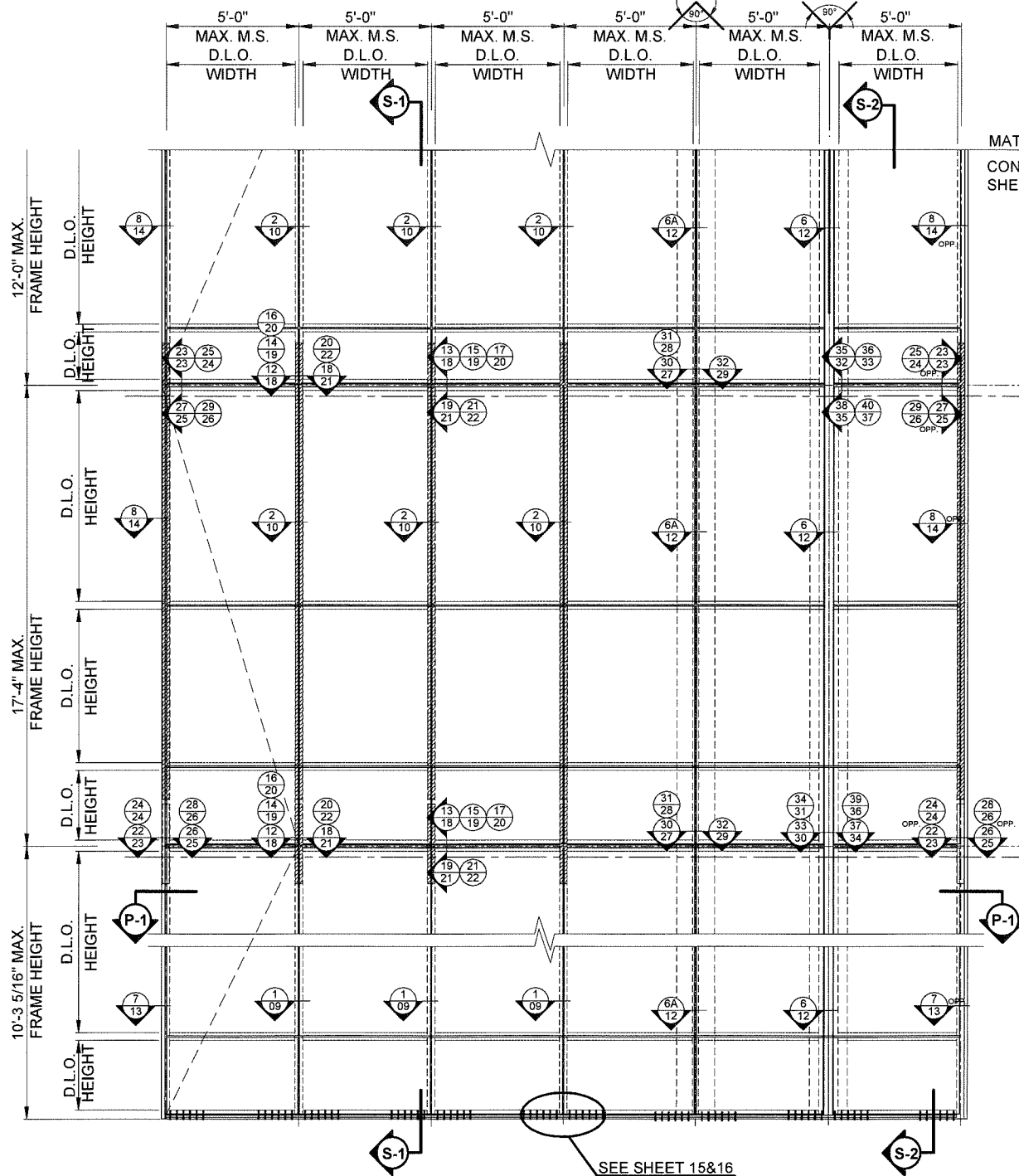
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SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO. AD12-65	
SHEET 02 OF 38	



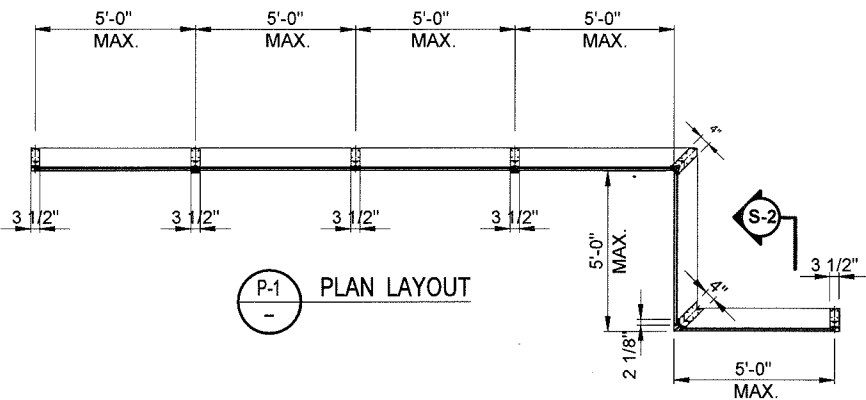
MIAMI DADE COUNTY

MAY 17 2009
STATE OF FLORIDA
SSIC: 68-111

MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. SUITE 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.921.4786 www.MCYEngineering.com MCY.Engineering@Att.net		MCY	
MCY ENGINEERING, INC. GLAZING CONSULTANTS		MCY	
8501 SW 124 AVE. SUITE 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.921.4786		MCY	
www.MCYEngineering.com MCY.Engineering@Att.net		MCY	



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



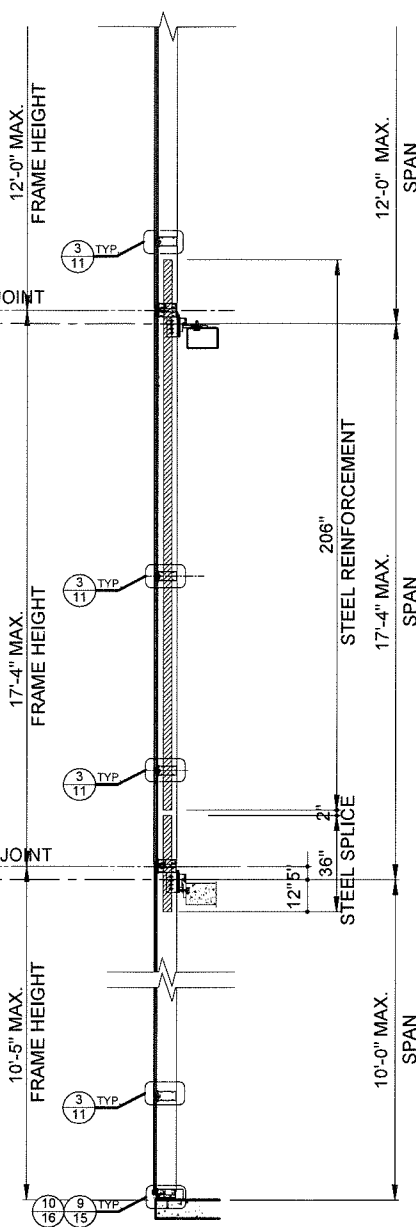
DESIGN LOAD V.S. MULLION
SPAN AND REINFORCEMENT
REFER TO SHEET 06 AND 07.

MATCH LINE I
CONTINUOUS ON
SHEET 05 OF 41

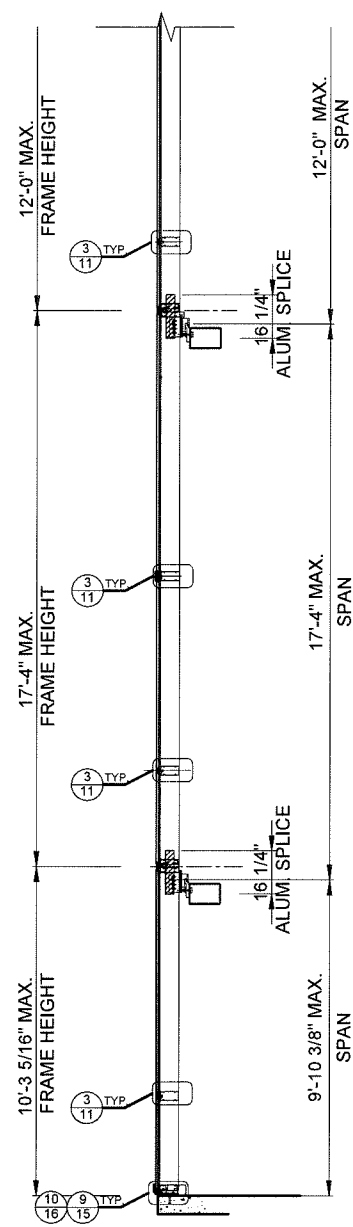
EXPANSION JOINT

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
Acceptance No. 18-0403.08
Expiration Date June 6, 2023
By Manuel Perez
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. #286773

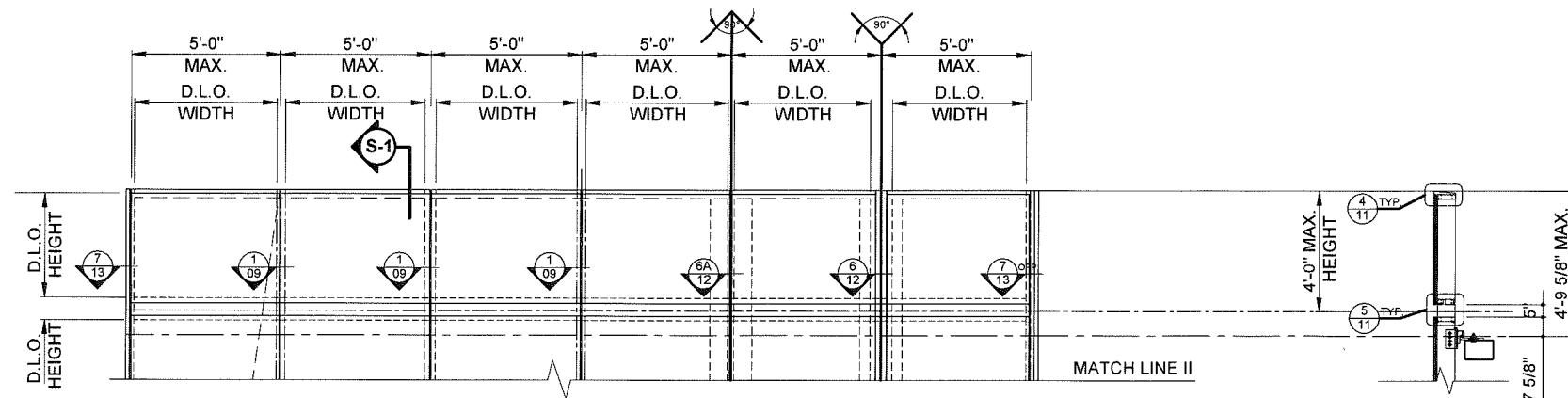
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
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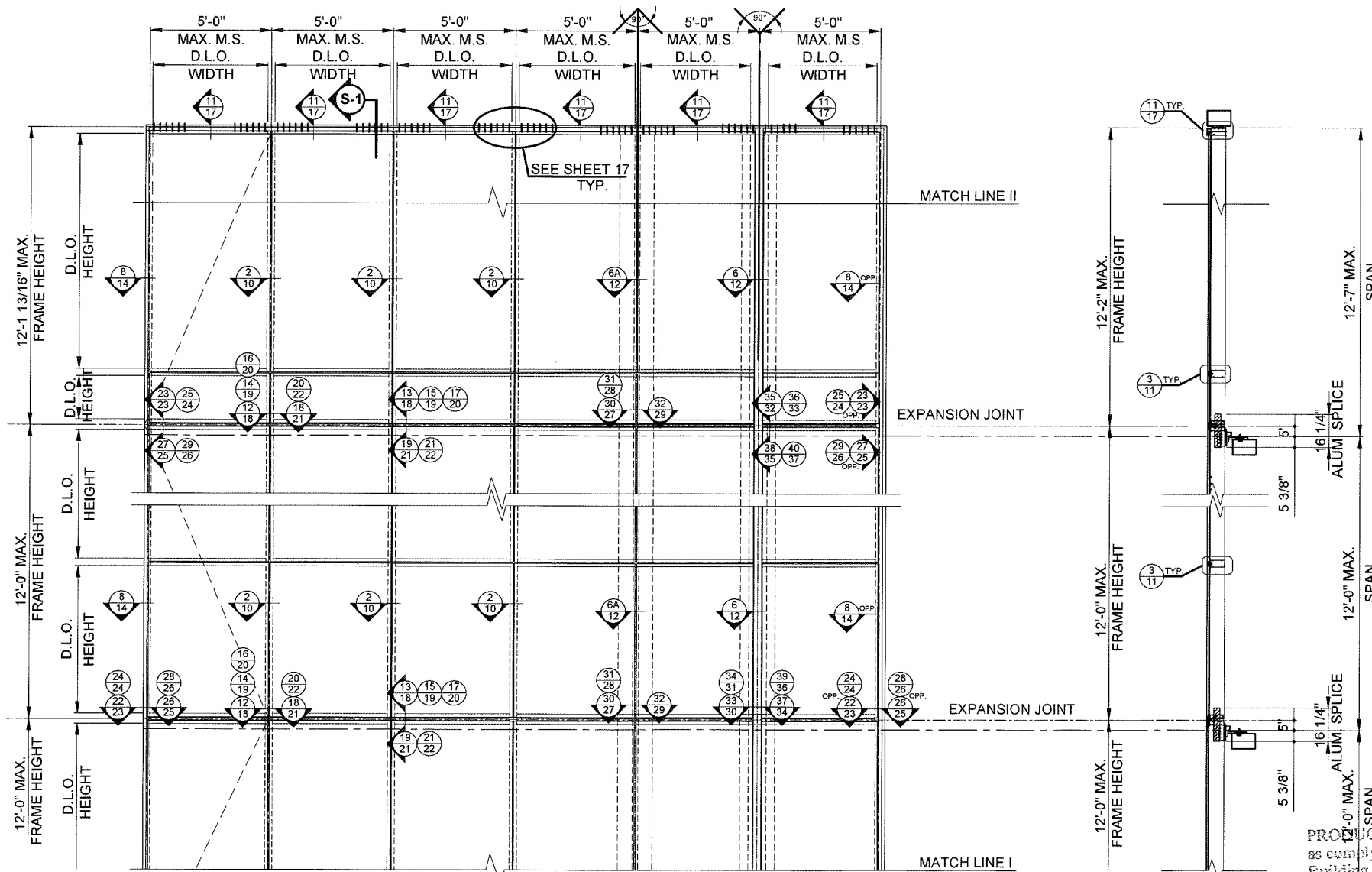
8501 SW 124 AVE. SUITE 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@att.net

DATE 07/08/2016
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

DRAWING NO.
AD12-65
SHEET 04 OF 38

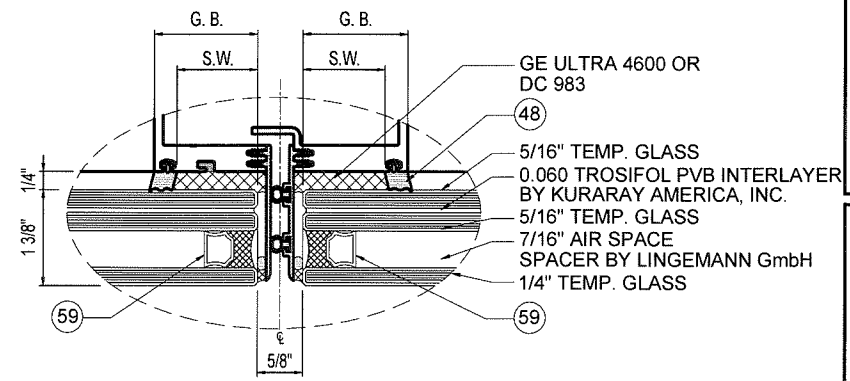


TOP CURTAIN WALL CANTILEVER OPTION

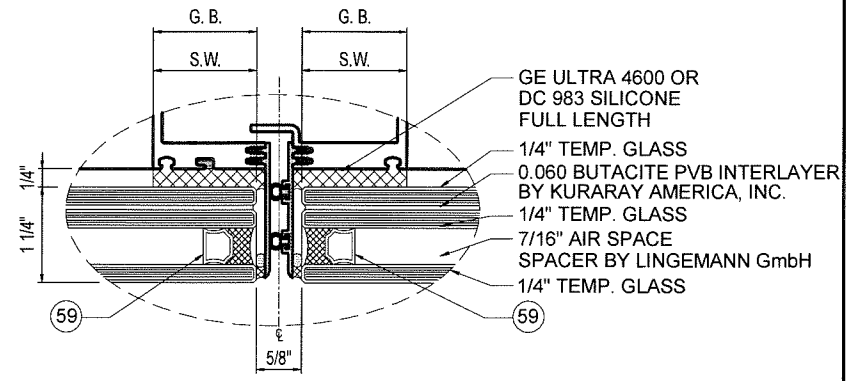


MULTIPLE SPAN ELEVATION - CURTAIN WALL

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

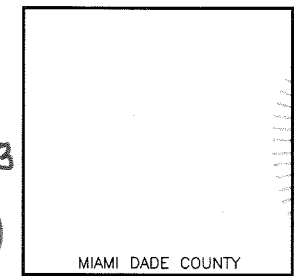
	GLASS TYPE "C"	GLASS TYPE "B"
MAX. GLASS AREA **	45.9 (FT ²)	50.2 (FT ²)
MAX. DESIGN LOAD (PSF)	+ 100 PSF - 187 PSF	+ 100 PSF - 187 PSF

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

G.B. - GLASS BITE

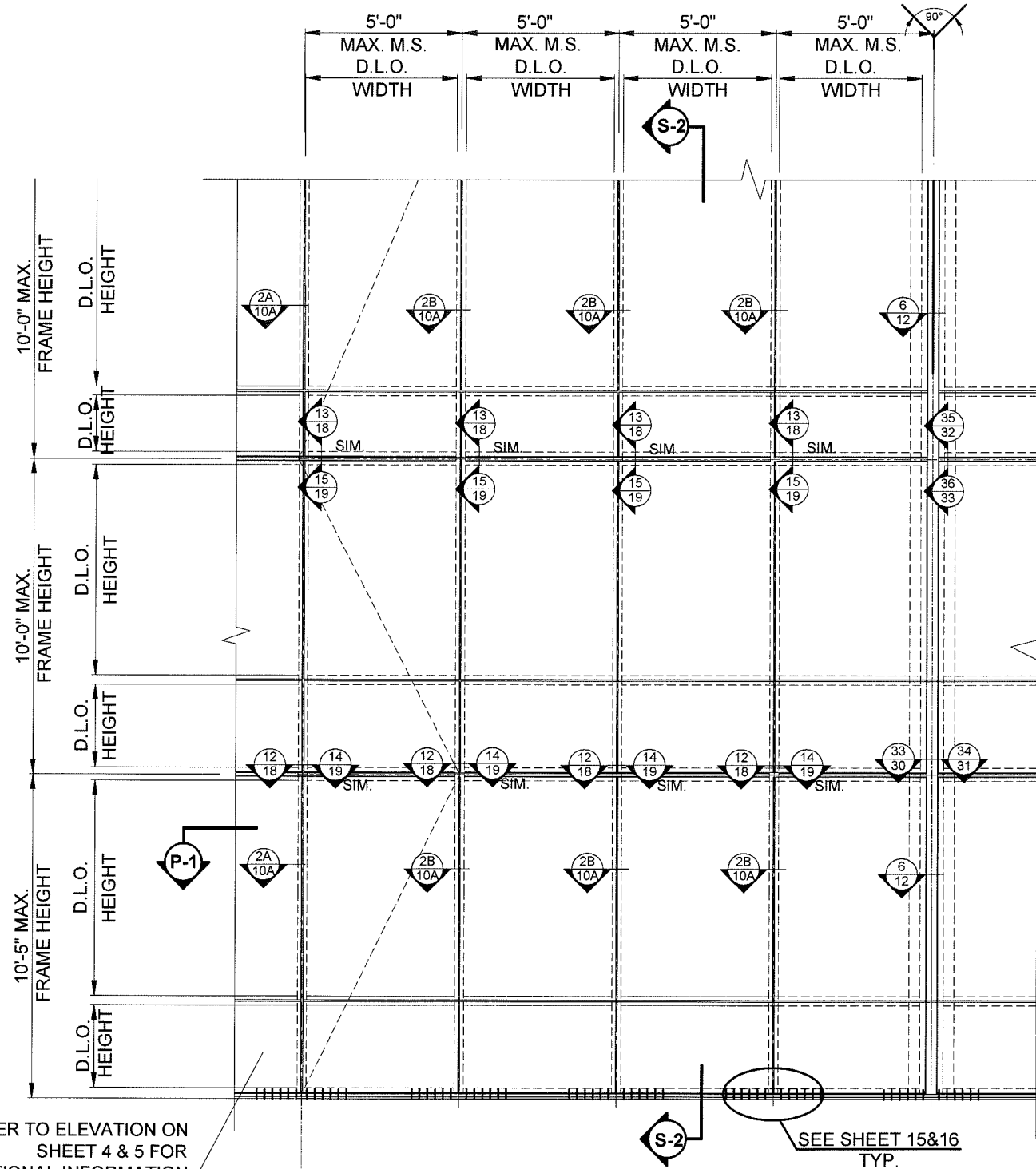
GLASS CAPACITY BASED ON ASTM E 1300-09

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0403.08
Expiration Date June 6, 2023
By *Manuel Perez*
Miami Code Product Control



YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
No 55983

REVISIONS NO DATE DESCRIPTION 1 8/4/15 UPDATE TO 2014 FBC 2 8/30/18 UPDATE TO 2017 FBC		MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. SUITE 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.921.4786 www.MCYEngineering.com MCY.Engineering@Att.net	
SERIES 7000 ALUMINUM CURTAIN WALL - SMI TECNOGLASS, LLC. 3550 NW 49th Street, MIAMI, FL 33142 Phone (305) 342-0890 Fax (786) 513-3965		DATE 07/08/2016 SCALE AS NOTED DRAWN A.R. PROJECT MCY15-088 DRAWING NO. AD12-65 SHEET 05 OF 38	



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

MATCH LINE III
 CONTINUOUS ON
 SHEET 05B OF 41

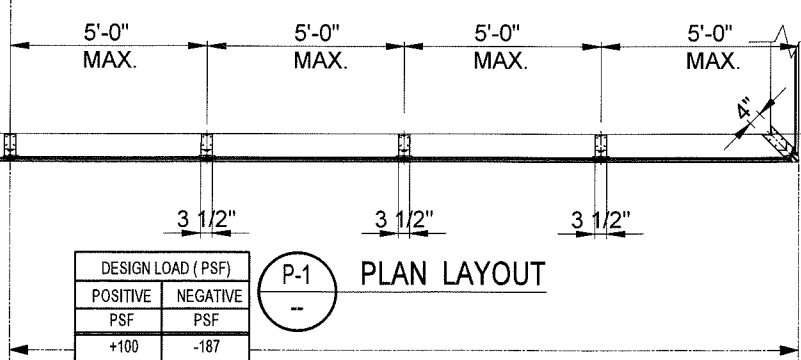
EXPANSION JOINT

EXPANSION JOINT

REFER TO ELEVATION ON
 SHEET 4 & 5 FOR
 ADDITIONAL INFORMATION

REFER TO ELEVATION ON
 SHEET 4 & 5 FOR
 ADDITIONAL INFORMATION

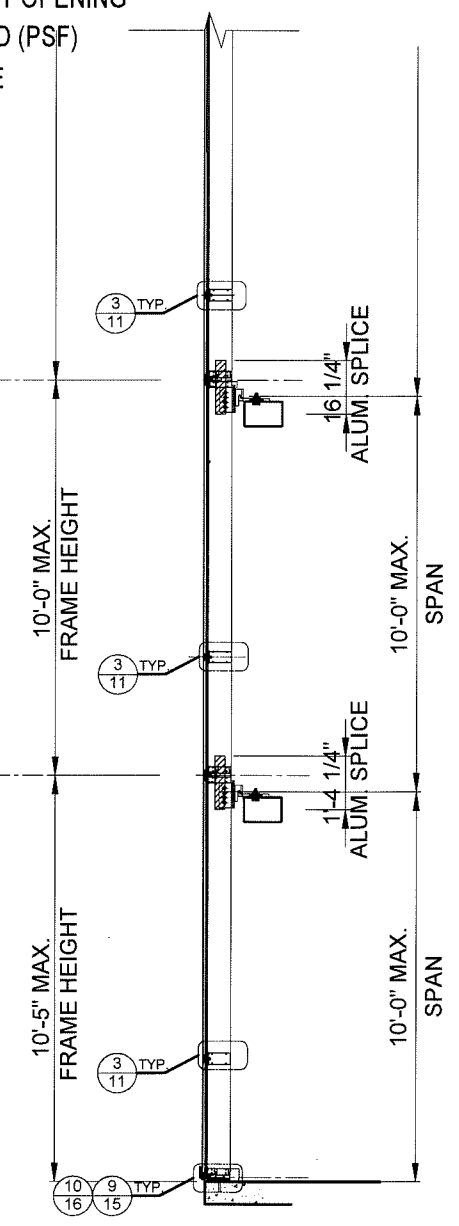
MULTIPLE SPAN ELEVATION - HEAVY DUTY SYSTEM
 (THREE SPAN MIN.)



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

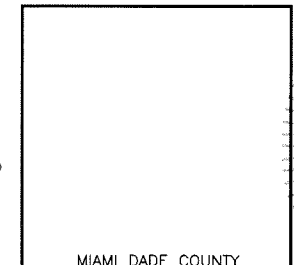
DESIGN LOAD (PSF)	
POSITIVE	NEGATIVE
PSF	PSF
+100	-187

PLAN LAYOUT



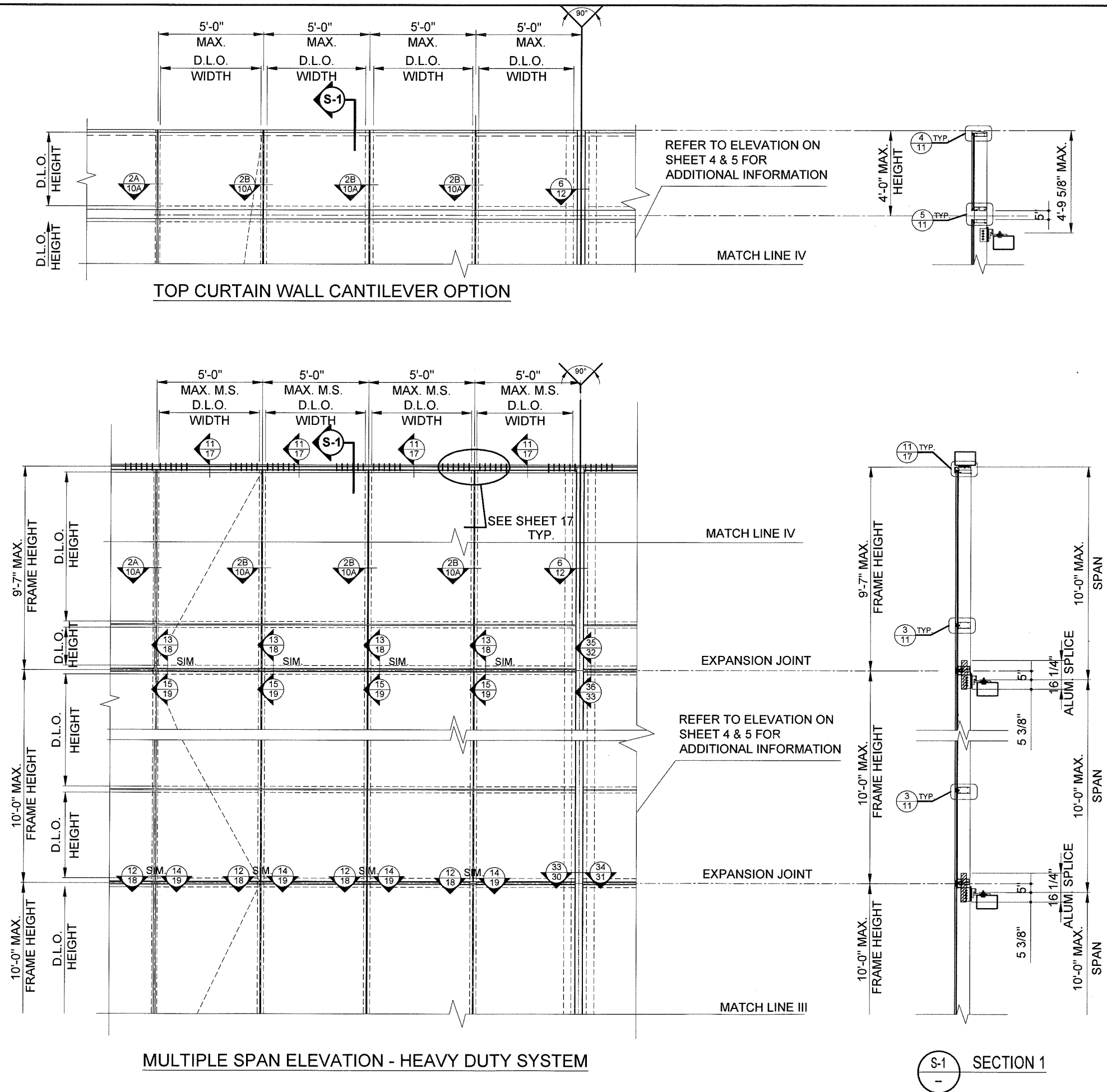
S-2 SECTION 2

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **18-0403.08**
 Expiration Date **June 16, 2023**
 By **Manuel Perez**
 Miami Dade Product Control



YIPING WANG, P.E.
 FLORIDA REGISTRATION
 PE #55983
 C.A.N. 28677
 No 55983

MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. SUITE 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.921.4786 www.MCYEngineering.com MCY.Engineering@Att.net	
TECNOGLASS, LLC. 3550 NW 49th Street, MIAMI, FL 33142 Phone (305) 342-0890 Fax (786) 513-3965	
SERIES 7000 ALUMINUM CURTAIN WALL - SMI	
DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET 05A OF 38	



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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0403.08
Expiration Date June 6, 2013
By Manuel Lopez
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

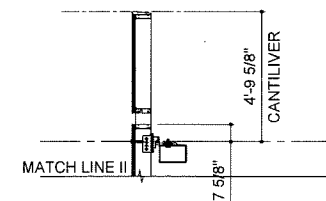
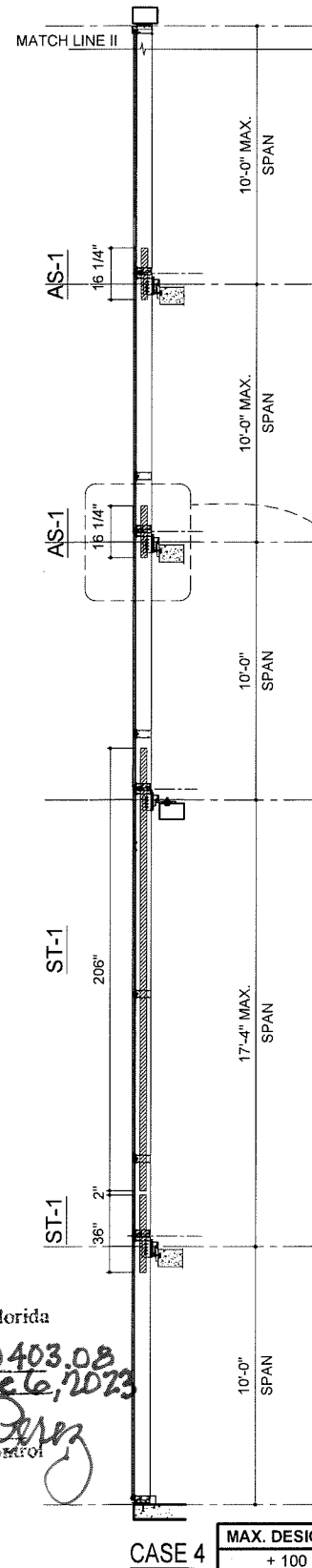
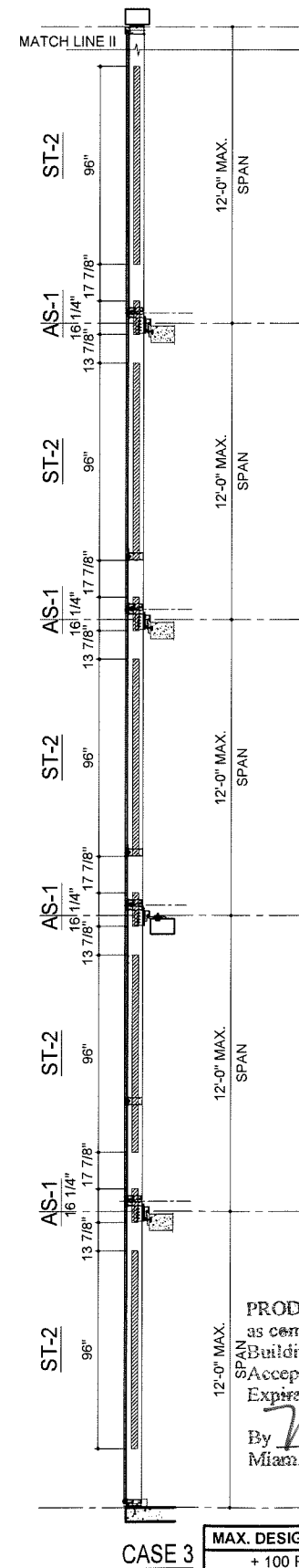
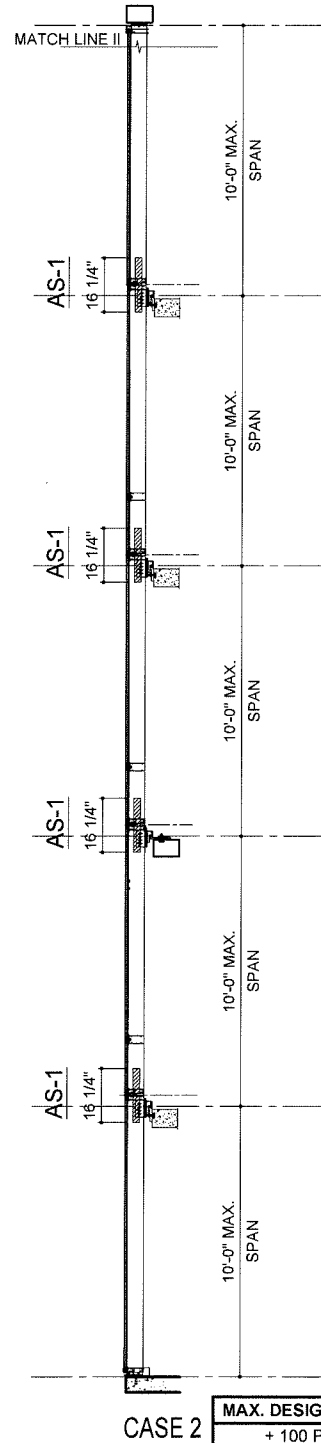
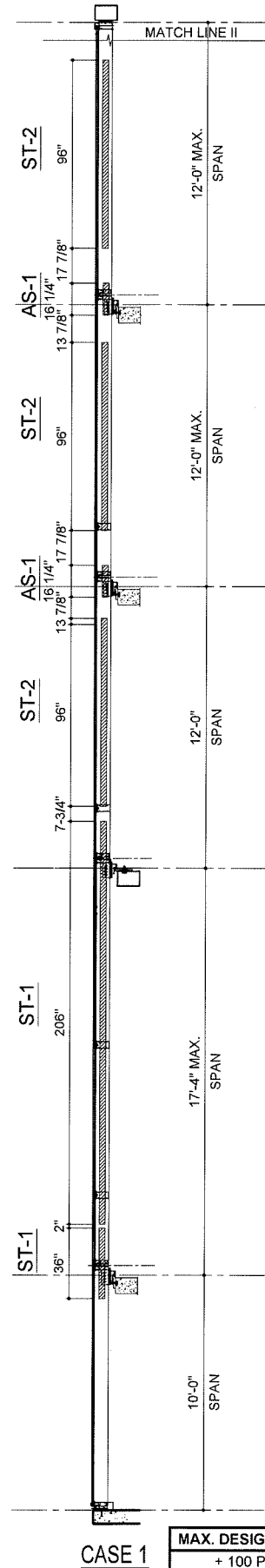
DATE 07/08/2016
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE. SUITE 205A
MIAMI, FL 33183
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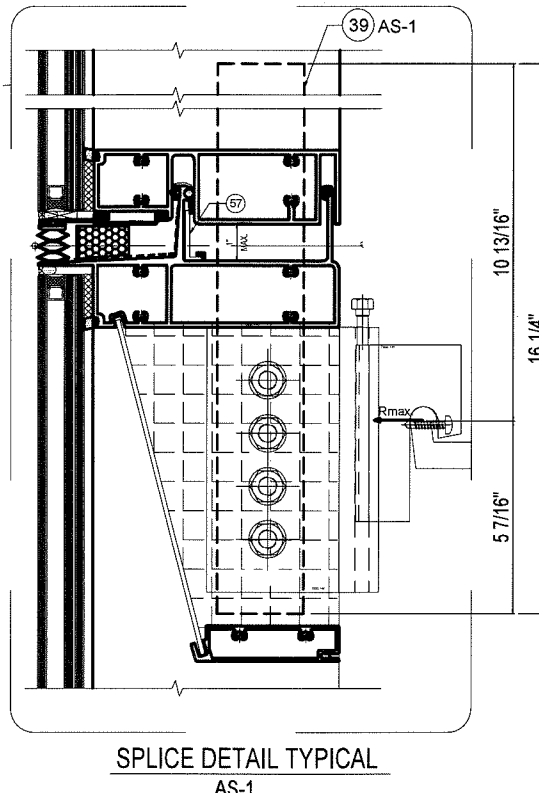
DATE 07/08/2016
SCALE AS NOTED
DRAWN A.R.
PROJECT MCY15-088
DRAWING NO. AD12-65
SHEET 05B OF 38

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



CASE 1 THRU CASE 6
W/ CANTILIVER

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0403.08
Expiration Date June 16, 2023
By Manuel Perez
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
No 55983
STATE OF FLORIDA
Professional Engineer

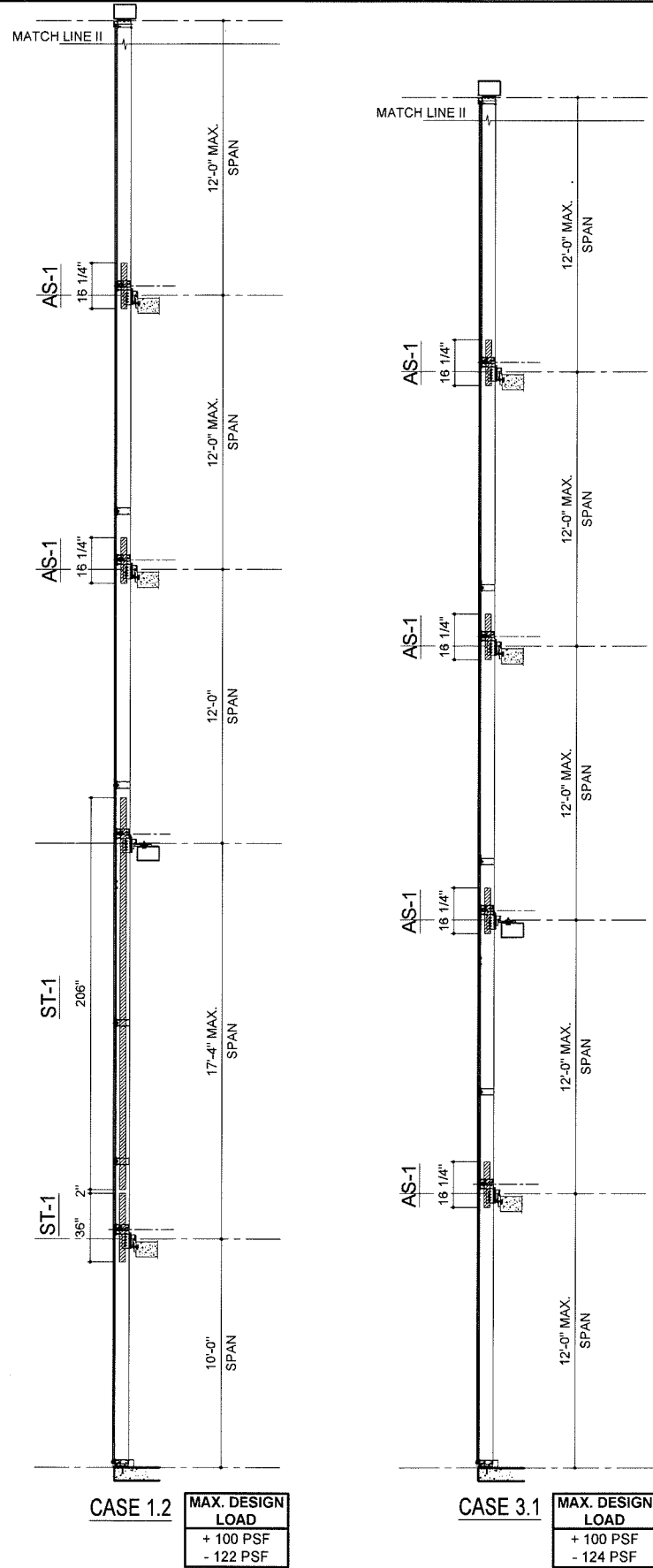
REVISIONS	NO	DATE	DESCRIPTION
	1	6/15/15	UPDATE TO 2014 FBC
	2	6/30/16	UPDATE TO 2017 FBC

MCY
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE. SUITE 205A
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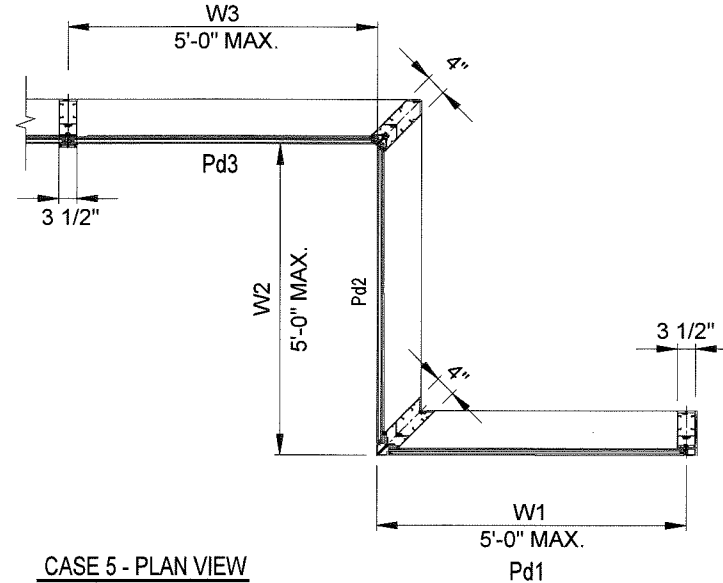
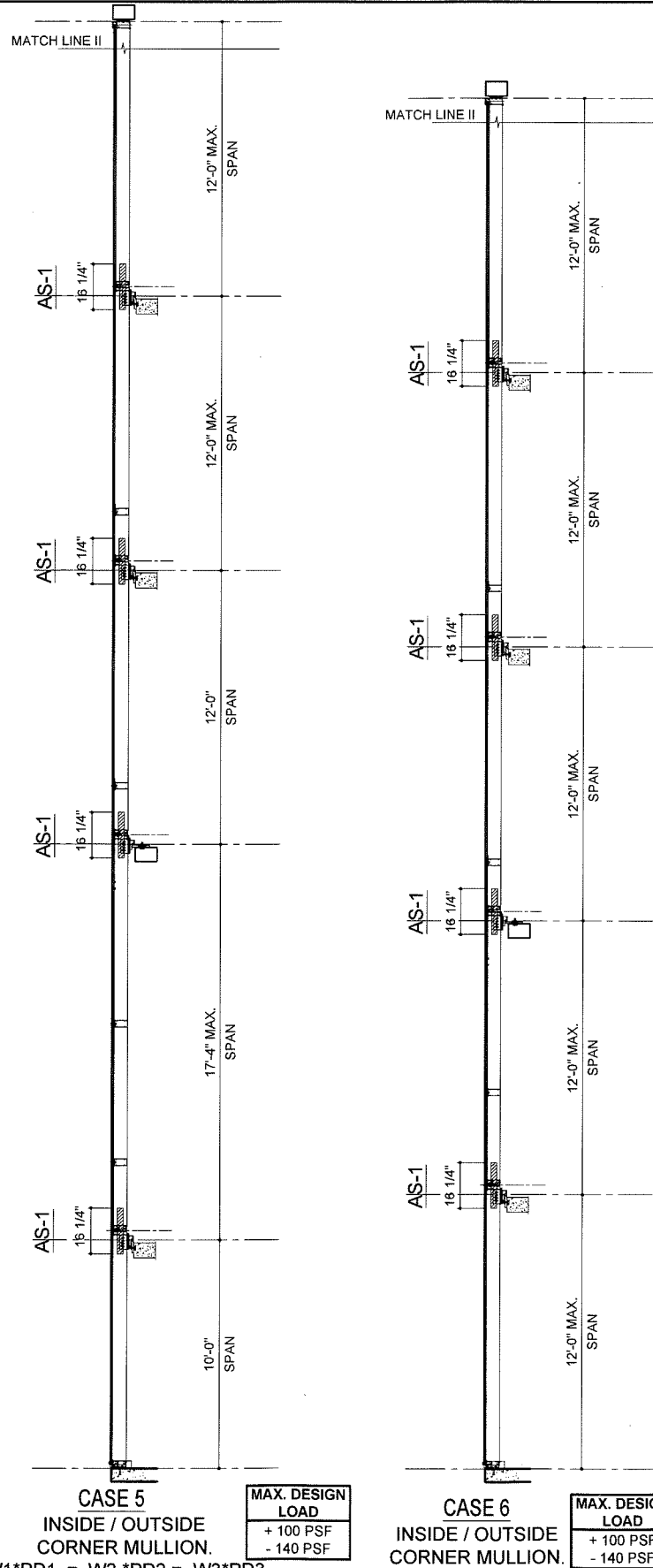
SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	06 OF 38

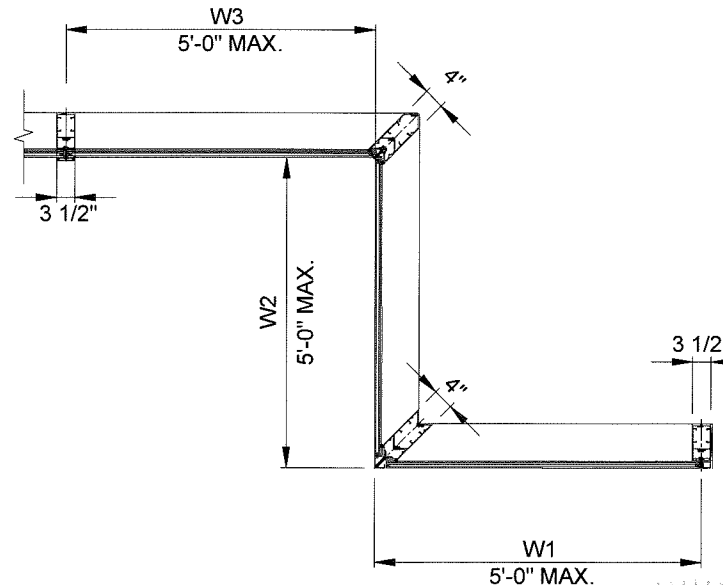
TYP. MULLION/JAMB SECTIONS W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



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



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



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. _____
Expiration Date _____

By _____
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

[Signature]

NO.	DATE	DESCRIPTION
1	6/4/15	UPDATE TO 2014 FBC
2	8/30/16	UPDATE TO 2017 FBC

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

8501 SW 124 AVE. SUITE 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

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

DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	07 OF 38

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)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)							
Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4			
Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3			
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8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666			
2 * ST-1				2 * ST-1				2 * ST-2				2 * ST-4				1 * ST-1				1 * ST-1				1 * ST-2				1 * ST-4							
9.2210				9.2210				3.7440				6.5046				4.6105				2.1566				1.8720				3.2523							
4.3132				4.3132				1.6600				2.9832				2.1566				0.8300				1.4916				1.4916							
TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)							
60.1585				60.1585				44.2752				52.2809				46.7881				38.8464				42.8492				42.8492							
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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)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)							
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Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3			
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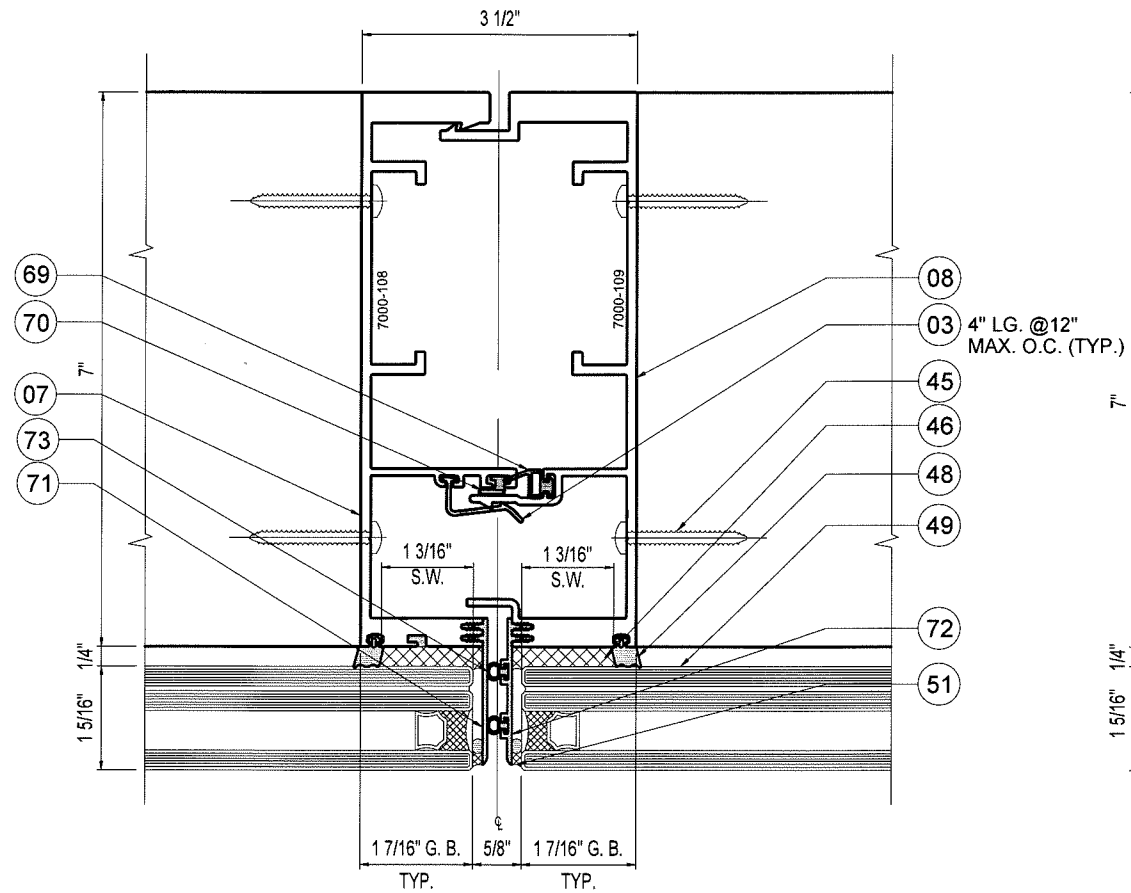
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2 * ST-1				2 * ST-1				2 * ST-2				2 * ST-4				1 * ST-1				1 * ST-1				1 * ST-2				1 * ST-4							
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TYP. MULLION W/ OR W/O REINF. OPTIONS												TYP. JAMB W/ OR W/O REINF. OPTIONS																							
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							
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2 * ST-1				2 * ST-1				2 * ST-2				2 * ST-4				1 * ST-1				1 * ST-1				1 * ST-2				1 * ST-4							
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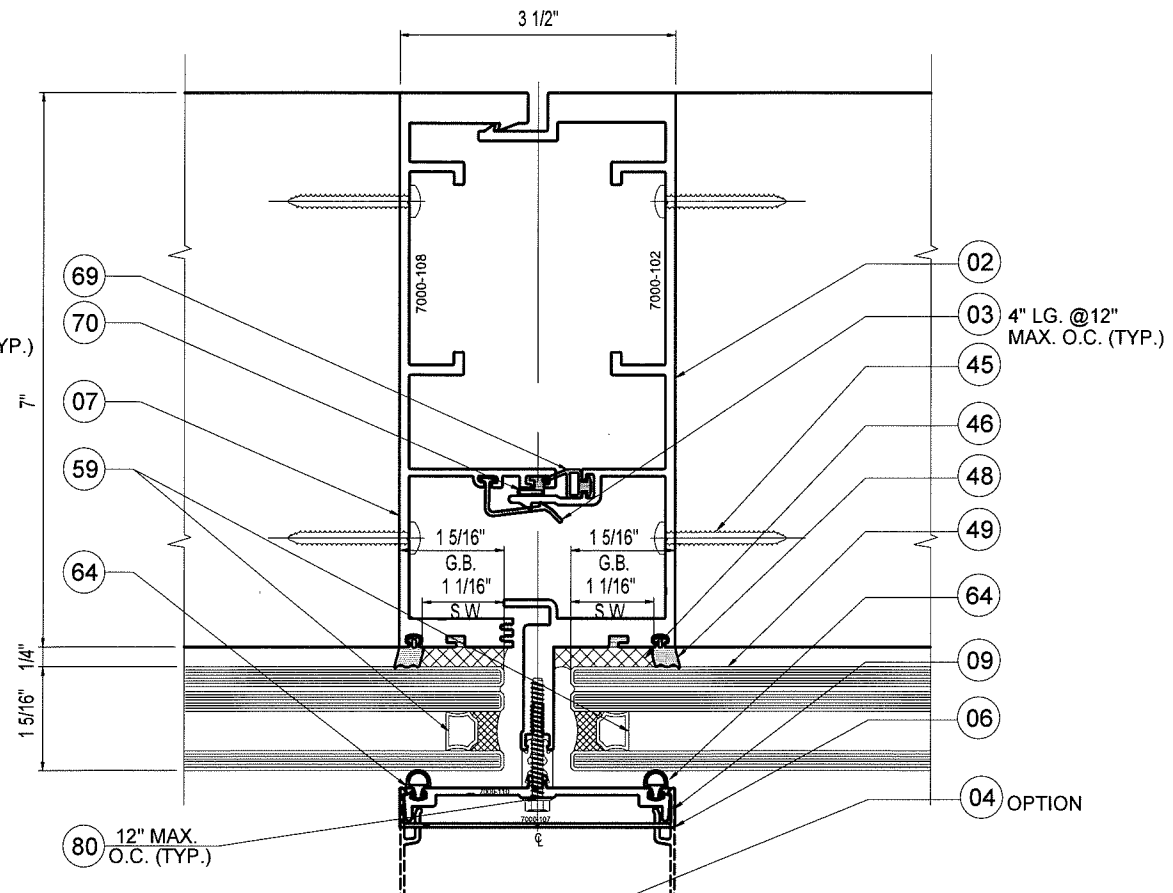
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Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4			
Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3			
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8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666			
2 * ST-1				2 * ST-1				2 * ST-2				2 * ST-4				1 * ST-1				1 * ST-1				1 * ST-2				1 * ST-4							
9.2210				9.2210				3.7440				6.5046				4.6105				2.1566				1.8720				3.2523							
4.3132				4.3132				1.6600				2.9832				2.1566				0.8300				1.4916				1.4916							
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60.1585				60.1585				44.2752				52.2809				46.7881				38.8464				42.8492				42.8492							
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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)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)							
Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4			
Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3			
33.4176				33.4176				33.4176				33.4176				33.4176				33.4176				33.4176				33.4176				33.4176			
8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666			
2 * ST-1				2 * ST-1				2 * ST-2				2 * ST-4				1 * ST-1				1 * ST-1				1 * ST-2				1 * ST-4							
9.2210				9.2210				3.7440				6.5046				4.6105				2.1566				1.8720				3.2523							
4.3132				4.3132				1.6600				2.9832				2.1566				0.8300				1.4916				1.4916							
TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)				TOTAL Ix Al + Ix St*(2.9)							
60.1585				60.1585				44.2752				52.2809				46.7881				38.8464				42.8492				42.8492							
--				--				--				--				--				--				--				--							

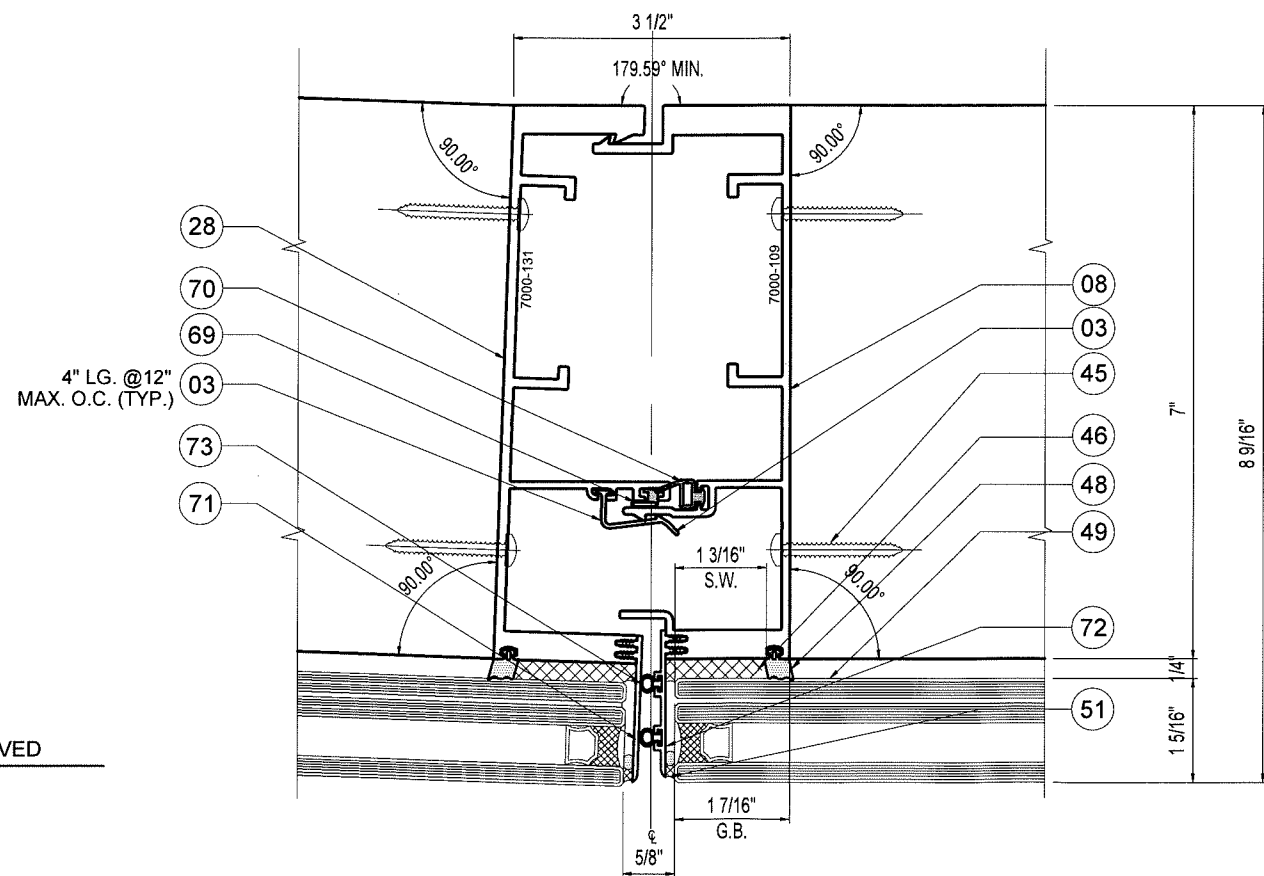
TYP. MULLION W/ OR W/O REINF. OPTIONS												TYP. JAMB W/ OR W/O REINF. OPTIONS																							
MULLION W/O REINF.				MULLION W/ ST-1				MULLION W/ ST-2				MULLION W/ ST-4				JAMB W/O REINF.				JAMB W/ ST-1				JAMB W/ ST-2				JAMB W/ ST-4							
ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)				ALUM. (7000-109 + 7000-108)							
Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4				Ix in^4			
Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3				Sx in^3			
33.4176				33.4176				33.4176				33.4176				33.4176				33.4176				33.4176				33.4176				33.4176			
8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666				8.9666			
2 * ST-1				2 * ST-1				2 * ST-2				2 * ST-4				1 * ST-1				1 * ST-1				1 * ST-2				1 * ST-4							
9.2210				9.2210																															



1
09 TYP. MULLION BUTT GLAZED
OPTION 1

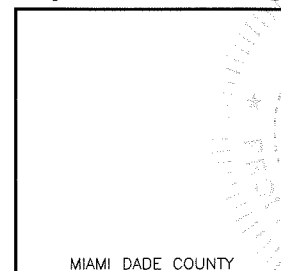


1
09 TYP. MULLION CAPTURED
OPTION 2



1
09 TYP. MULLION CURVED
OPTION 3

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as complying with the Florida
Building Code
Acceptance No. 18-0403.08
Expiration Date June 6, 2023
By Manuel Perez
Miami Dade Product Control



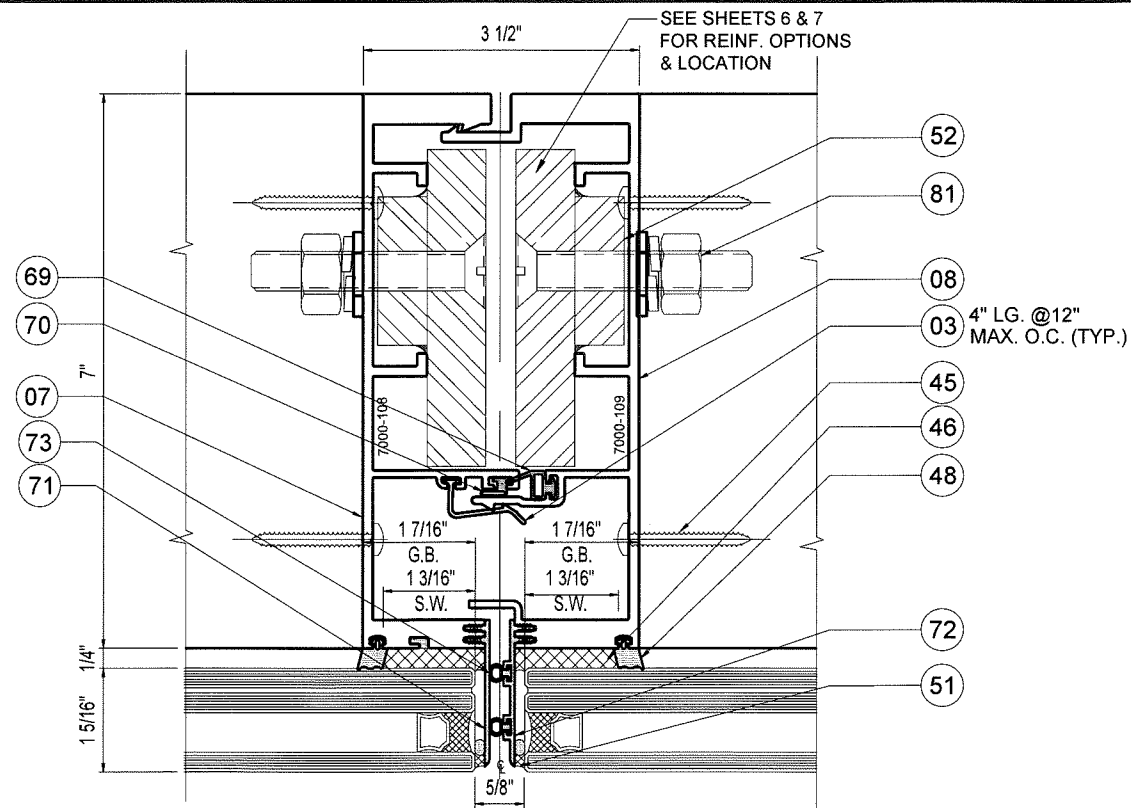
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

REVISIONS	NO.	DATE	DESCRIPTION
	1	8/4/15	UPDATE TO 2014 FBC
	2	8/30/18	UPDATE TO 2017 FBC

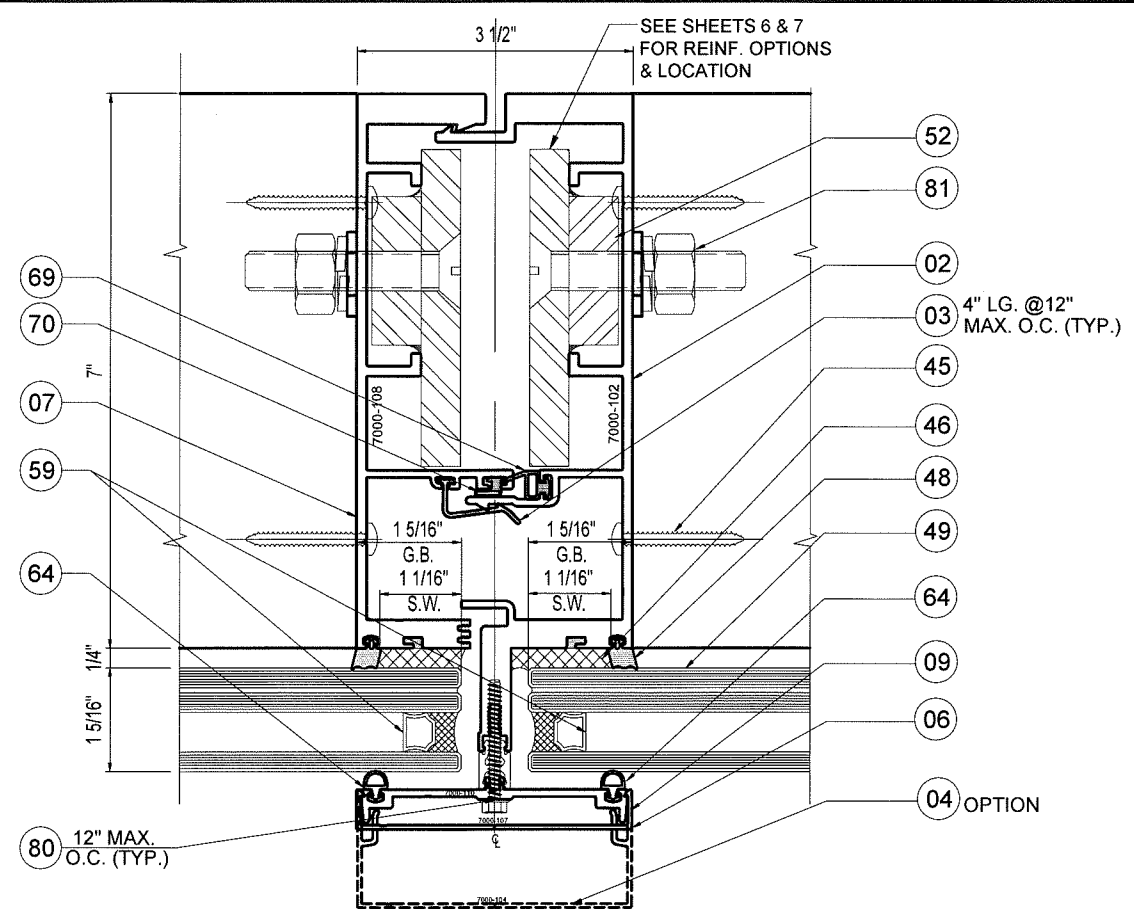
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE. SUITE 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

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

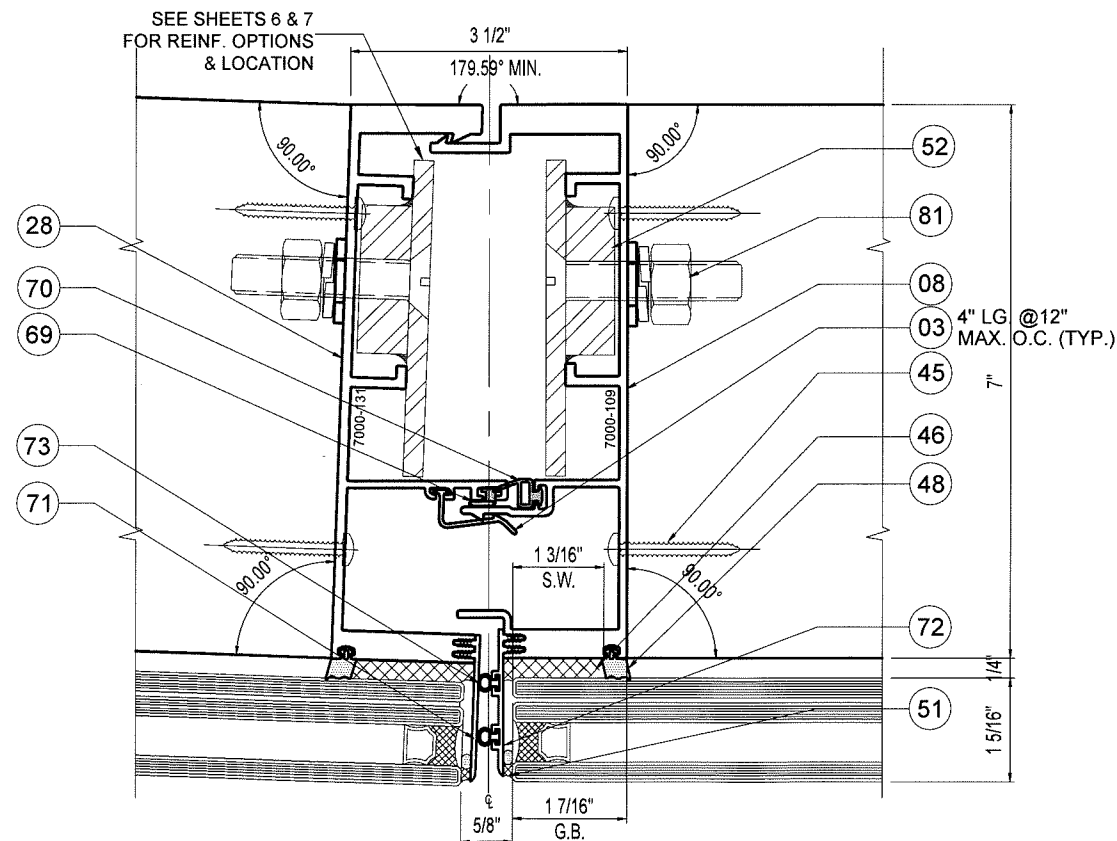
DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	09 OF 38



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



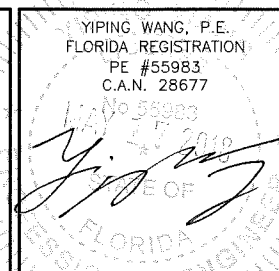
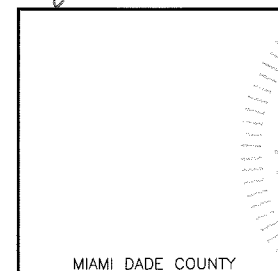
2
10 TYP. MULLION CAPTURED W/ REINF.
OPTION 2



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.

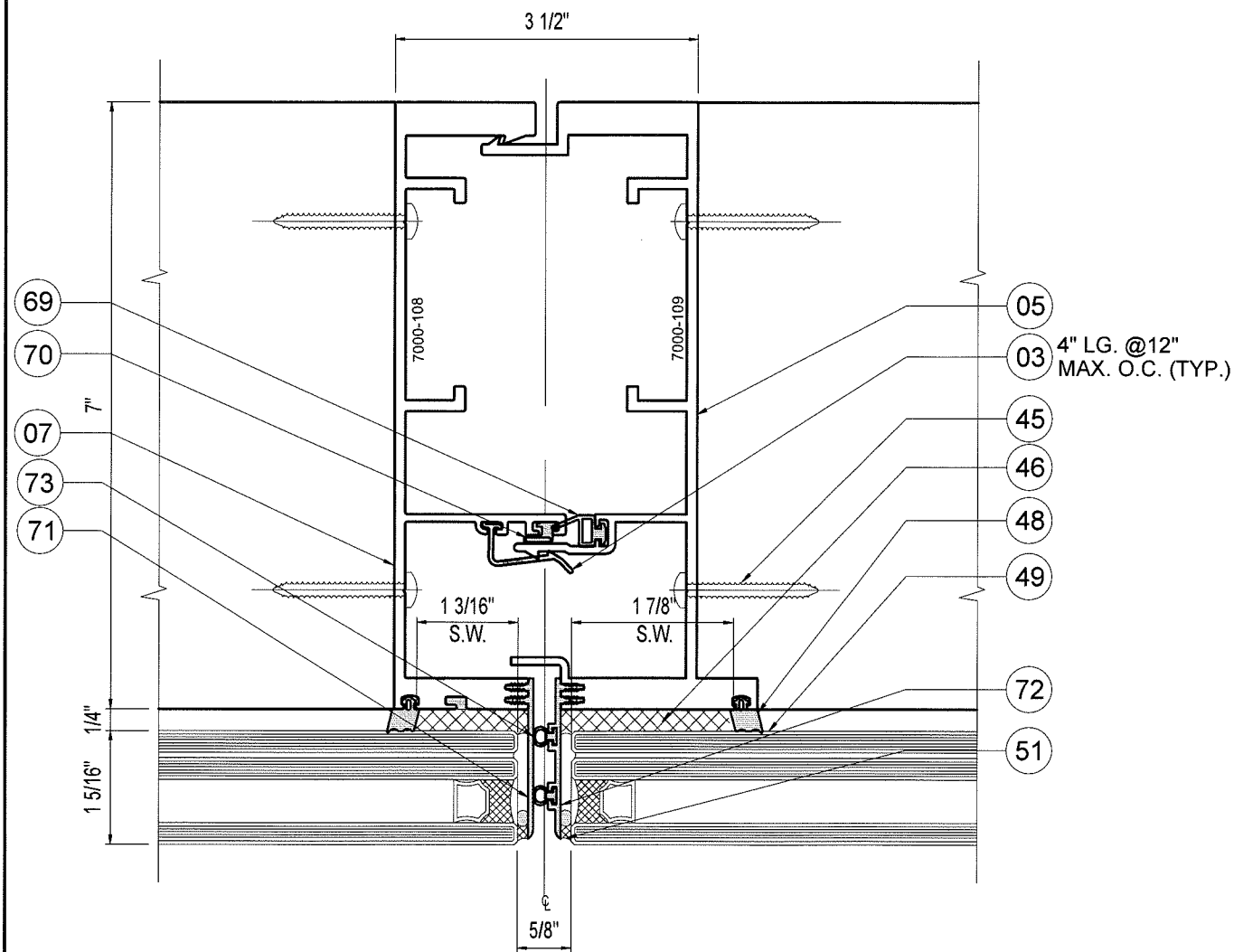
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0403.08
Expiration Date June 6, 2023
By *Manuel Perez*
Miami Dade Product Control



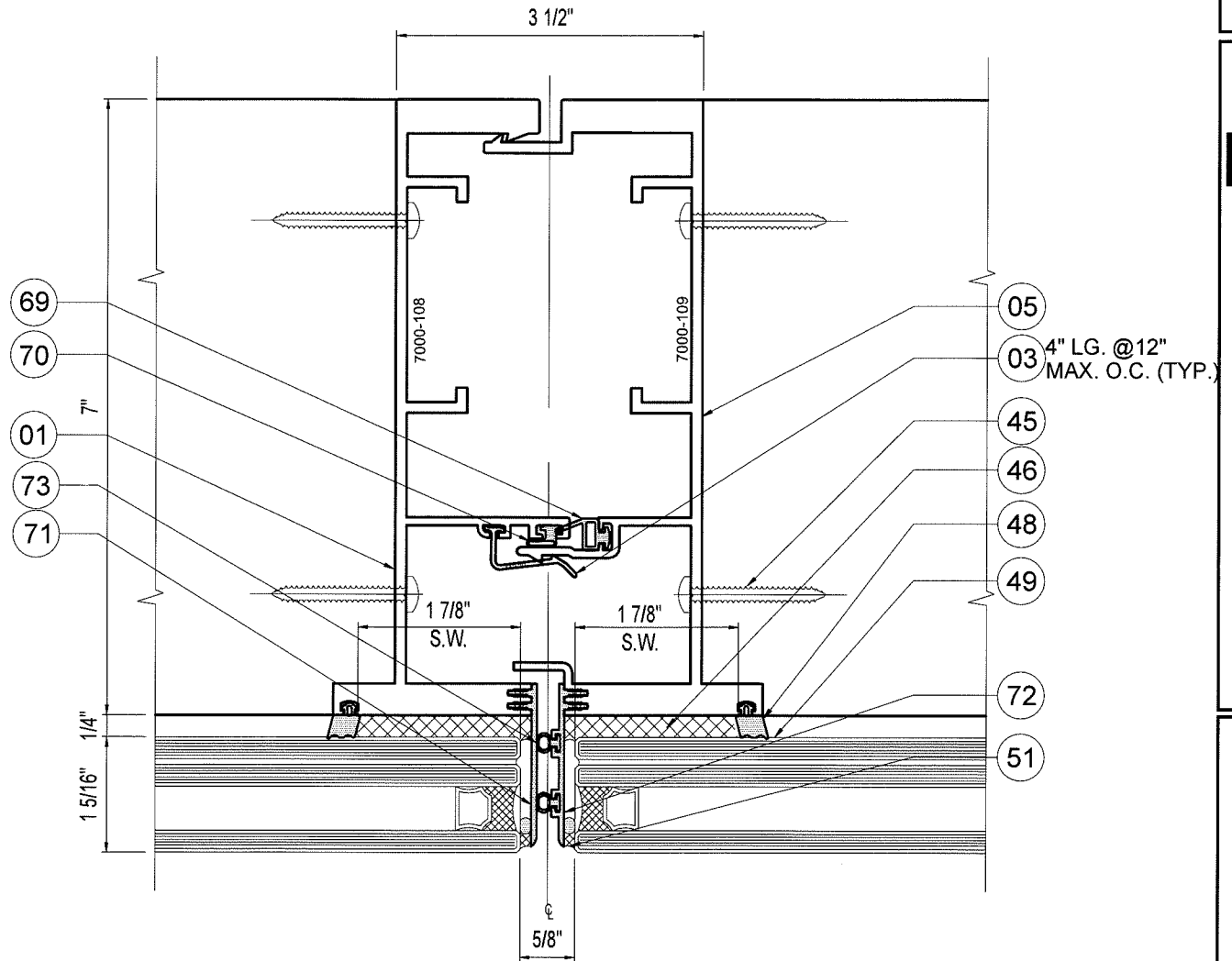
REVISIONS		NO. DATE DESCRIPTION	
		1	6/15/15 UPDATE TO 2014 FBC
		2	6/30/16 UPDATE TO 2017 FBC

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--	--	--	--

SERIES 7000 ALUMINUM CURTAIN WALL - SMI		DATE	07/08/2016
		SCALE	AS NOTED
		DRAWN	A.R.
		PROJECT	MCY15-088
		DRAWING NO.	AD12-65
		SHEET	10 OF 38

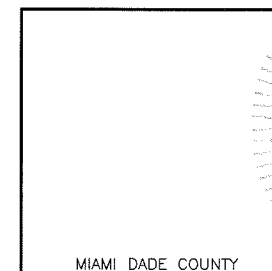


2A
10A TYP. MULLION BUTT GLAZED



2B
10A TYP. MULLION BUTT GLAZED

PRODUCT REVISED
as complying with the Florida
Building Code
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Expiration Date JUNE 6, 2023
By *Manuel Perez*
Miami Dade Product Control



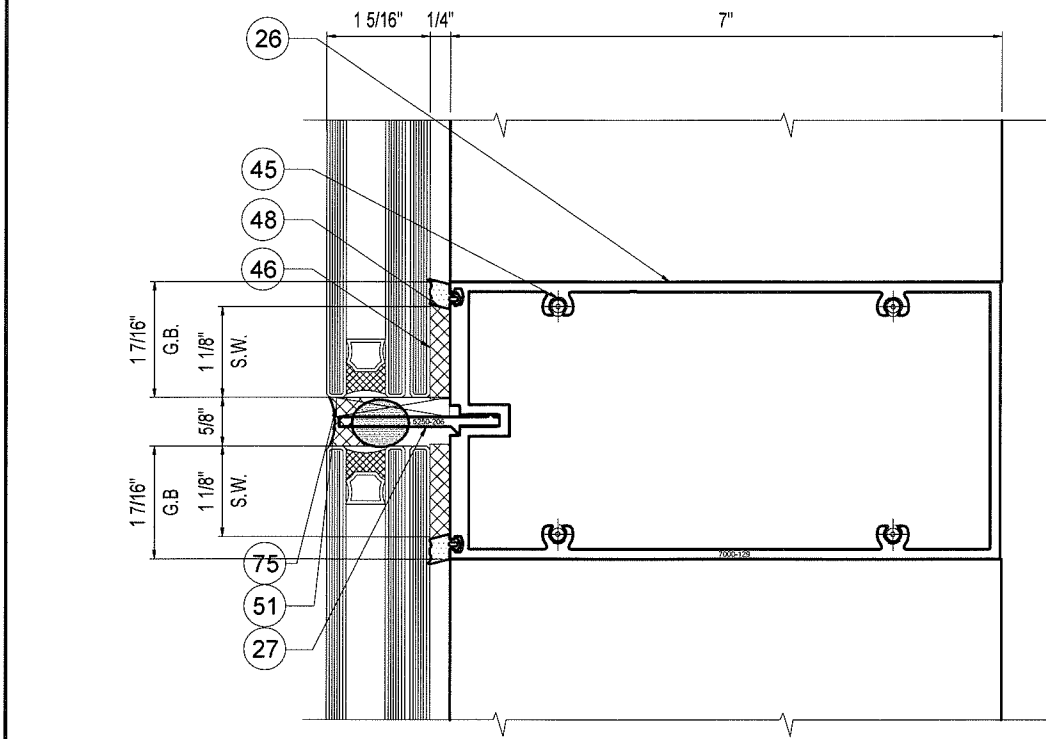
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 528677
MAY 13 2013

NO.	DATE	DESCRIPTION
1	6/4/15	UPDATE TO 2014 FBC
2	8/30/16	UPDATE TO 2017 FBC
3		
4		
5		

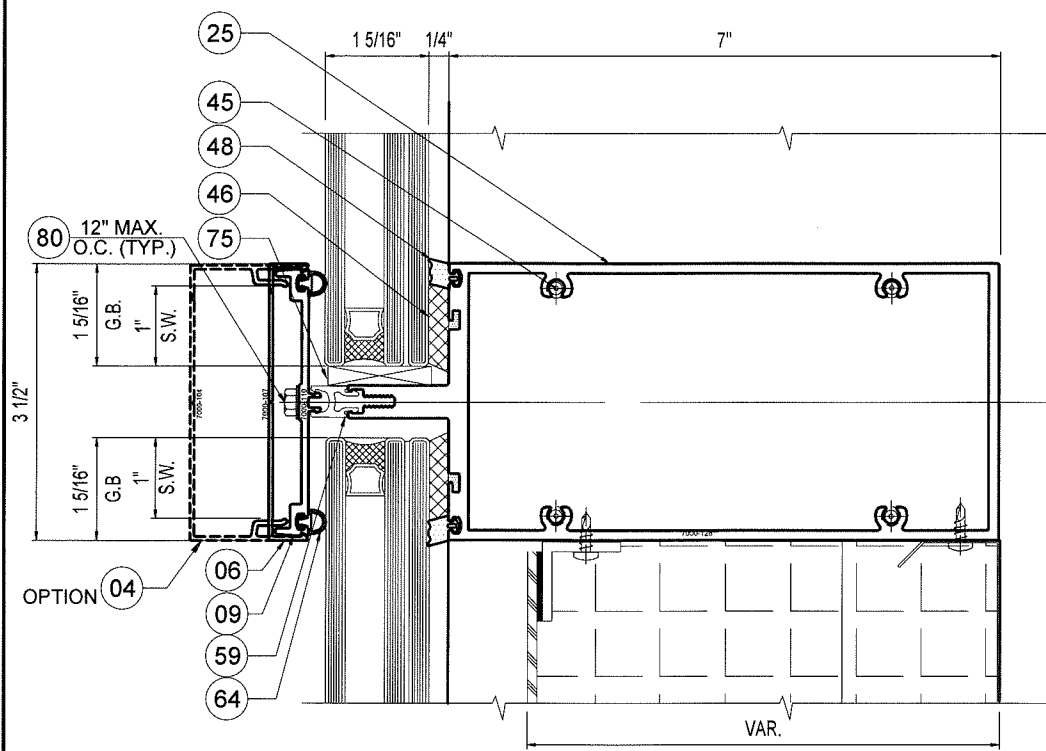
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GLAZING CONSULTANTS
8501 SW 124 AVE. SUITE 205A P: 305.271.0117
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

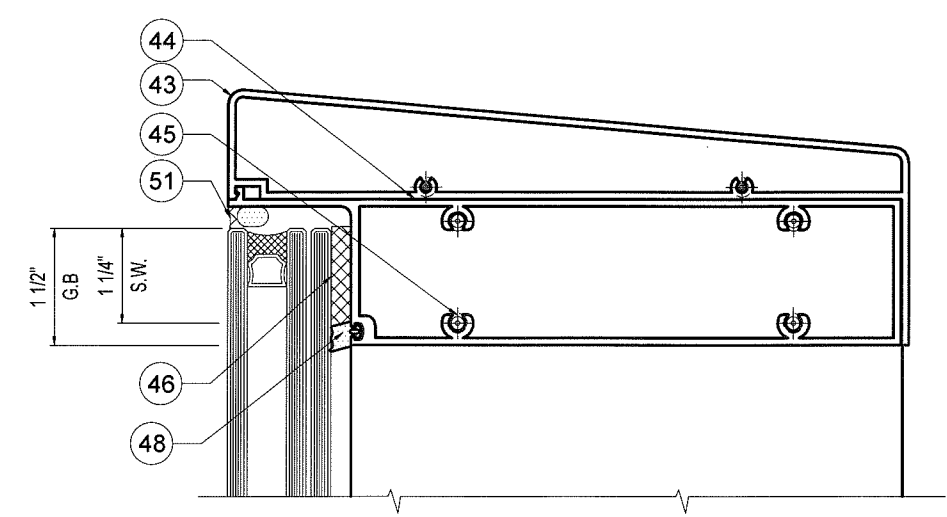
DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	10A OF 38



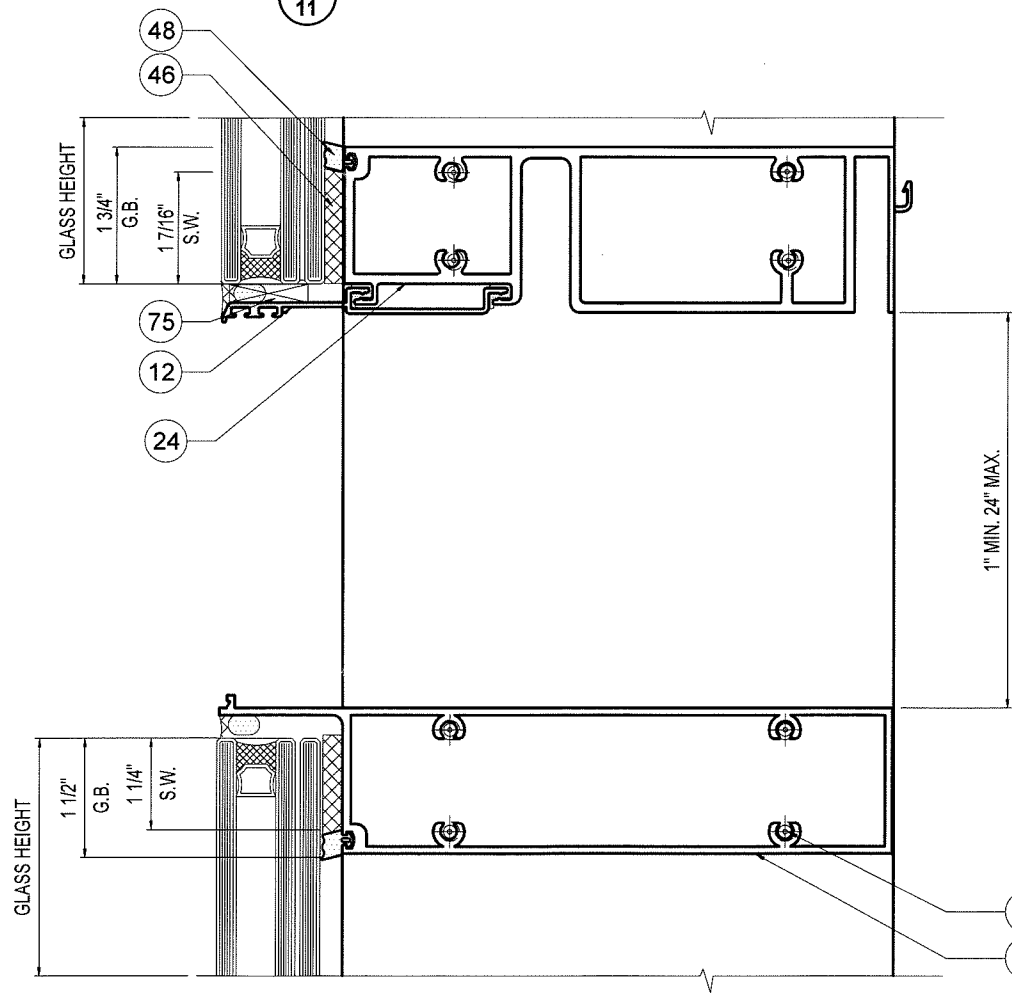
3
11 HORIZONTAL BUTT GLAZED
OPTION 1



3
11 HORIZONTAL CAPTURED
OPTION 2

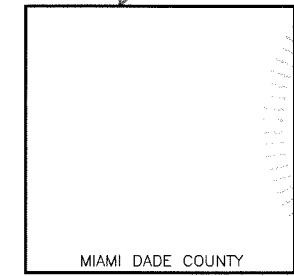


4
11 PARAPET HEAD



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

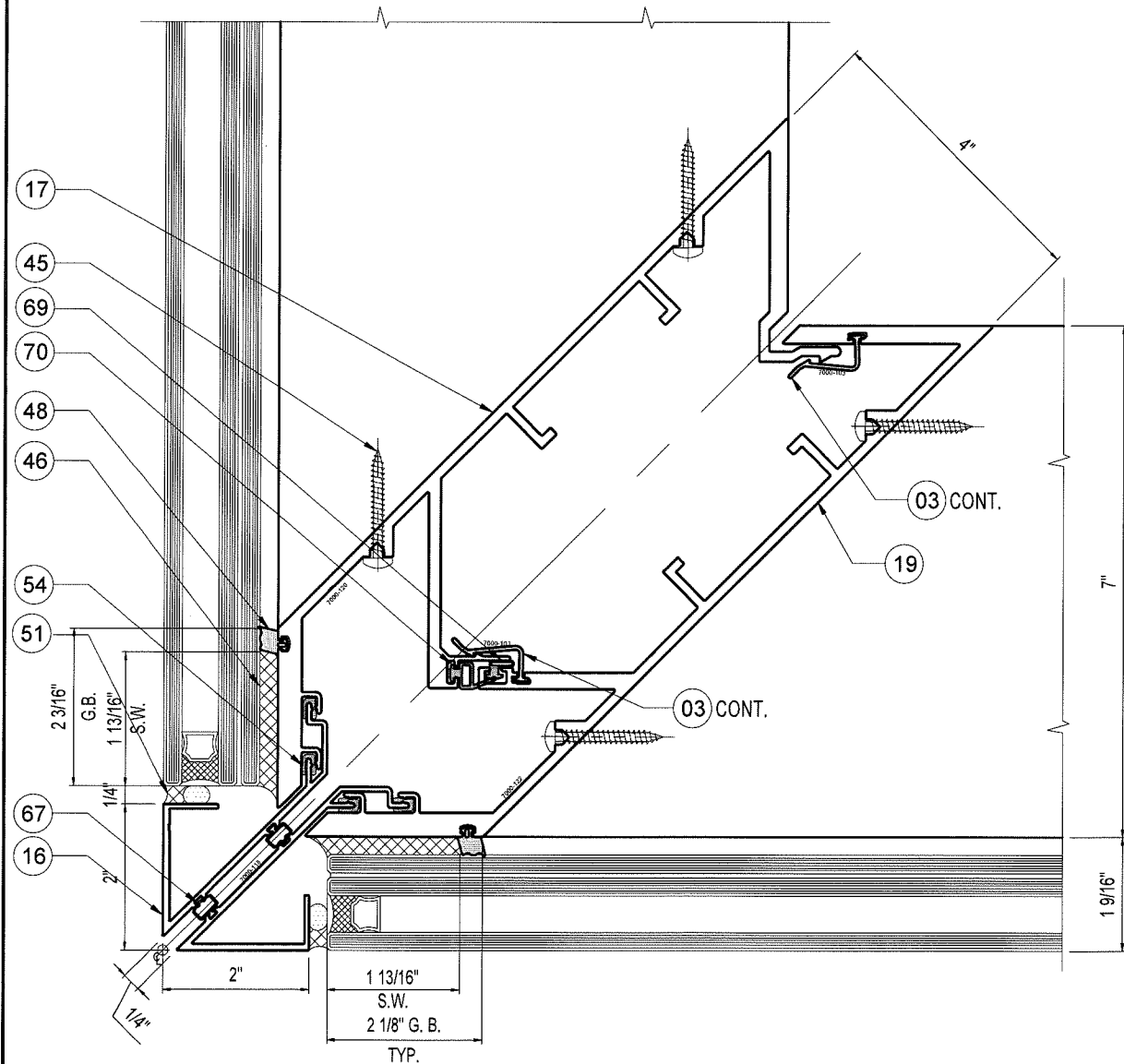
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **18-0403.08**
Expiration Date **June 6, 2023**
By *Manuel Sues*
Miami Dade Product Control



YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. #28677

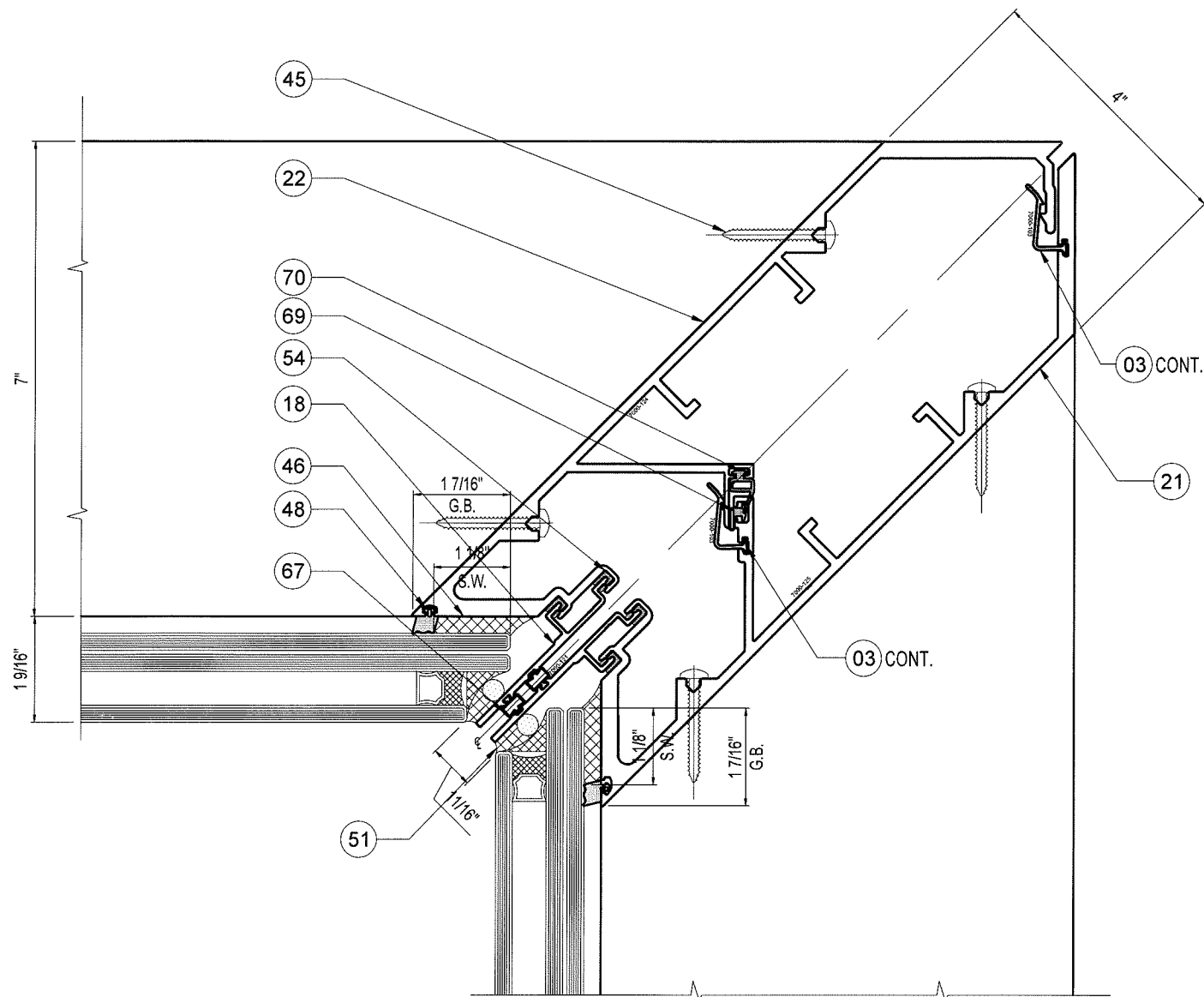
REVISIONS		MCY ENGINEERING, INC.	
NO.	DATE	DESCRIPTION	GLAZING CONSULTANTS
1	8/4/15	UPDATE TO 2014 FBC	
2	8/30/18	UPDATE TO 2017 FBC	
3			
4			
5			
		SERIES 7000 ALUMINUM CURTAIN WALL - SMI	
		TECNOGLASS, LLC.	
		3550 NW 49th Street, MIAMI, FL 33142	
		Phone (305) 342-0890 Fax (786) 513-3965	
DATE	07/08/2016	DRAWING NO.	AD12-65
SCALE	AS NOTED	SHEET	11 OF 38
DRAWN	A.R.		
PROJECT	MCY15-088		

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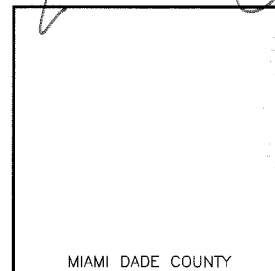
6
12 OUTSIDE CORNER MULLION

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



6A
12 INSIDE CORNER MULLION

PRODUCT REVISED
as complying with the Florida
Building Code
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Expiration Date **June 6, 2023**
By *Manuel Perez*
Miami Dade Product Control

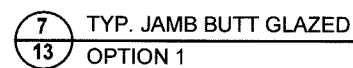


REVISIONS	
NO	DATE DESCRIPTION
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2	8/30/18 UPDATE TO 2017 FBC

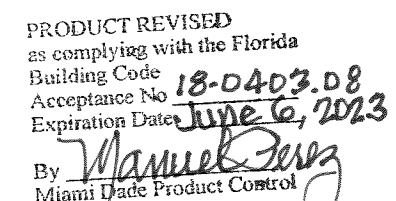
MCY
MCY ENGINEERING, INC.
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
3550 NW 49th Street, MIAMI, FL 33142
Phone (305) 342-0890 Fax (786) 513-3965

DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	12 OF 38



*JAMB SPAN: - ANCHOR C_L TO C_L



DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088

DRAWING NO.

AD12-65

SHEET 13 OF 38

MCY ENGINEERING, INC.
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Phone (305) 342-0890 Fax (786) 513-3965

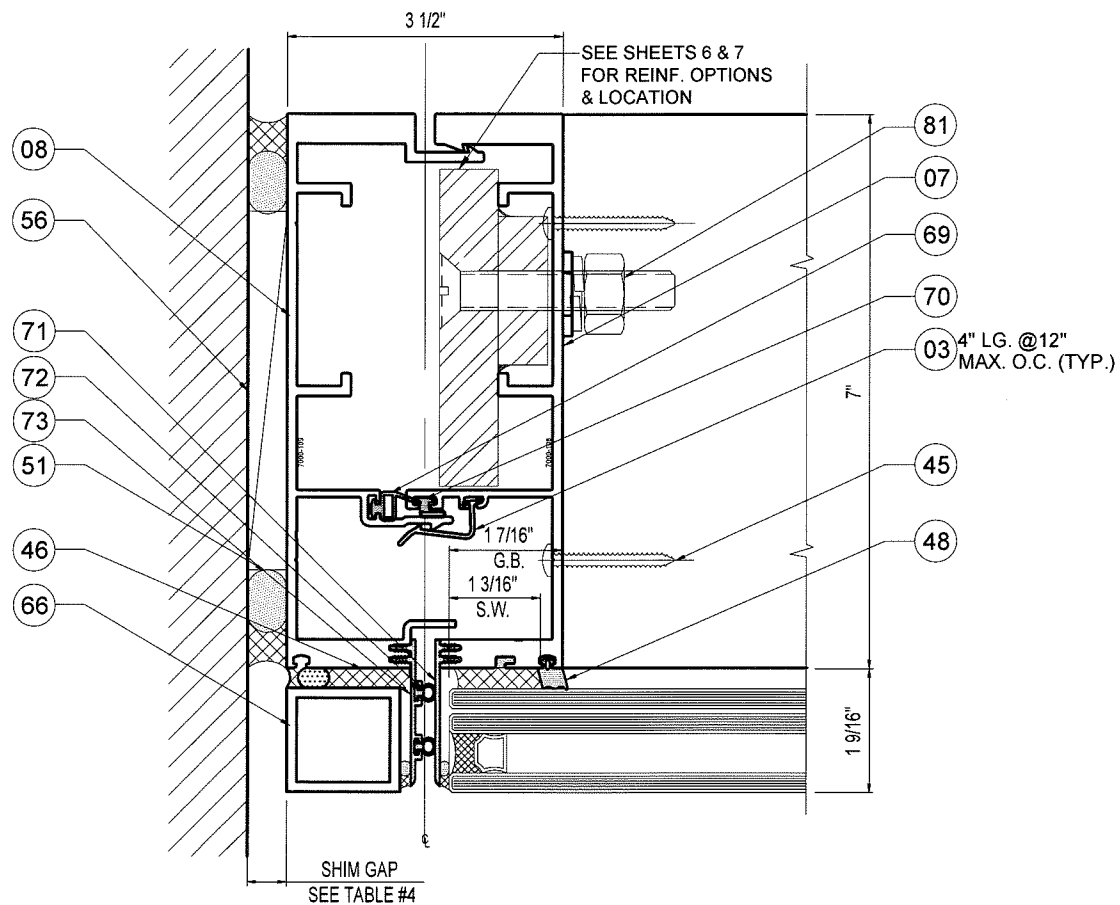
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TECNOGLASS, LLC.

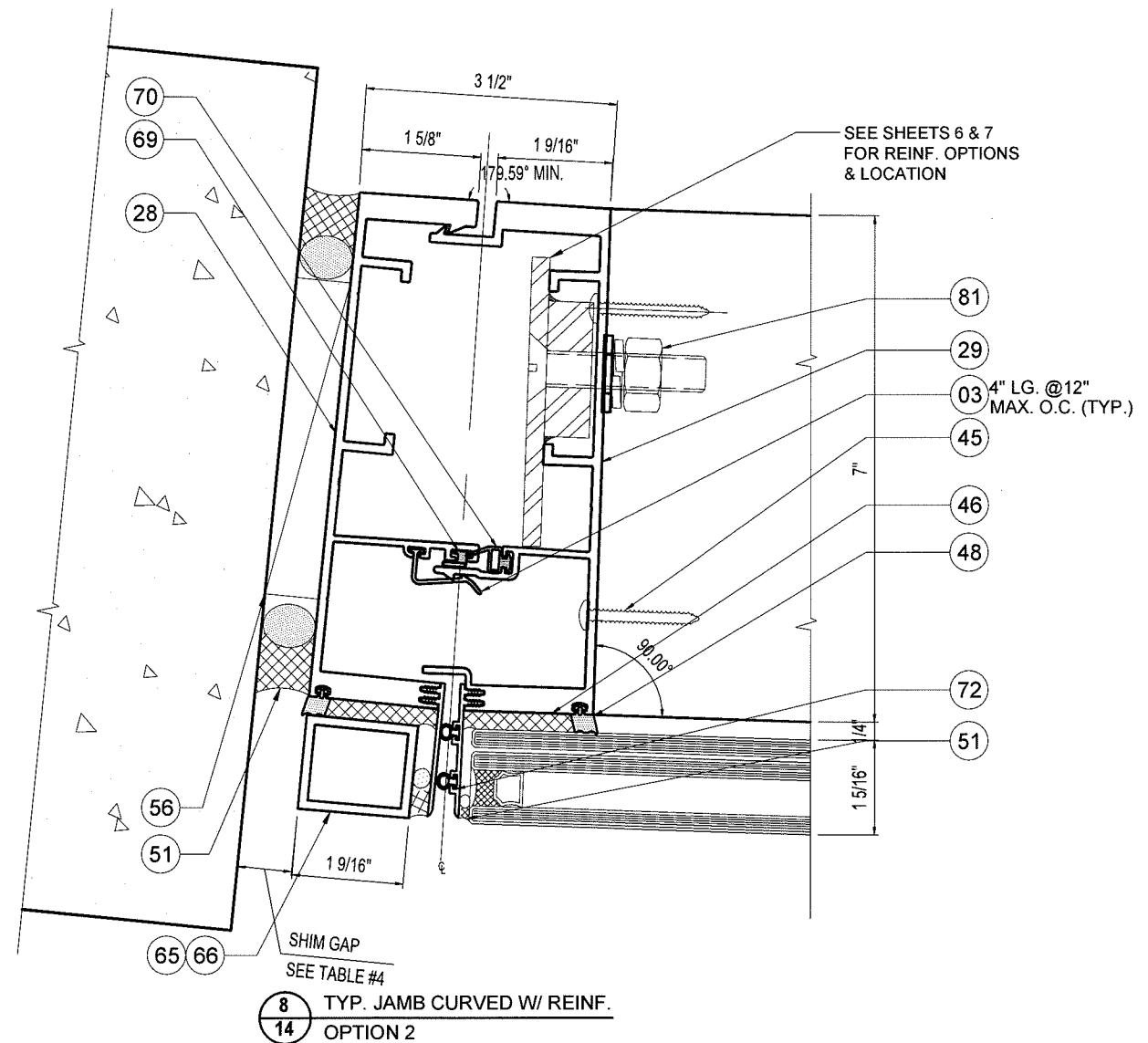
3550 NW 49th Street, MIAMI, FL 33142

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REVISIONS	
NO.	DATE DESCRIPTION
1	6/4/15 UPDATE TO 2014 FBC
2	3/30/16 UPDATE TO 2017 FBC



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 ϕ TO ϕ

PRODUCT REVISED
as complying with the Florida
Building Code
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Expiration Date June 6, 2023
By *Manuel Perez*
Miami Dade Product Control

YIPING WANG, P.E. FLORIDA REGISTRATION PE #55983 C.A.N. 28677		DATE	07/08/2016
SCALE		AS	NOTED
DRAWN		A.R.	
PROJECT		MCY15-088	
DRAWING NO.		AD12-65	
SHEET 14		OF 38	

REVISIONS

NO	DATE	DESCRIPTION
1	6/6/15	UPDATE TO 2014 FBC
2	6/30/16	UPDATE TO 2017 FBC

MCY

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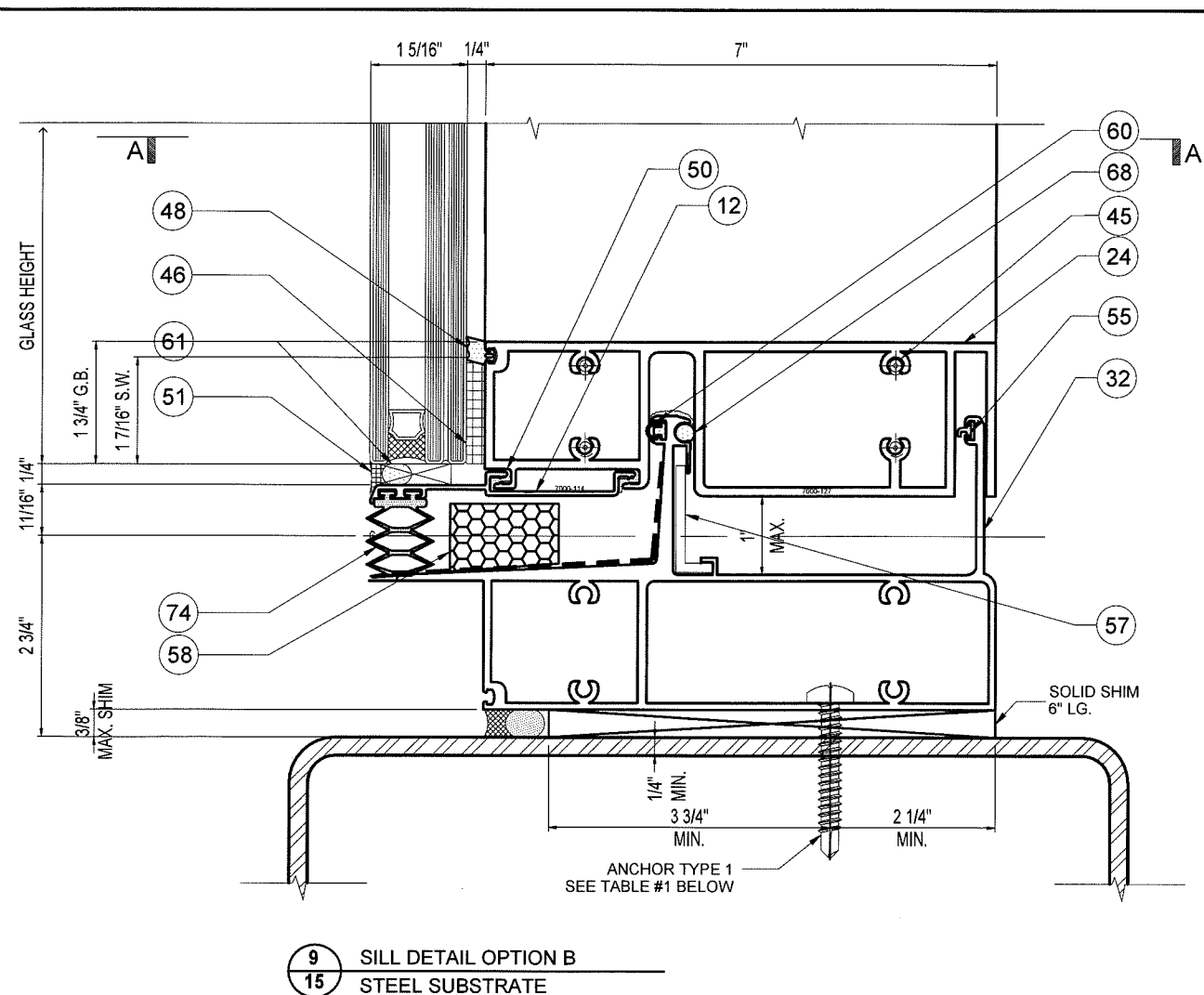
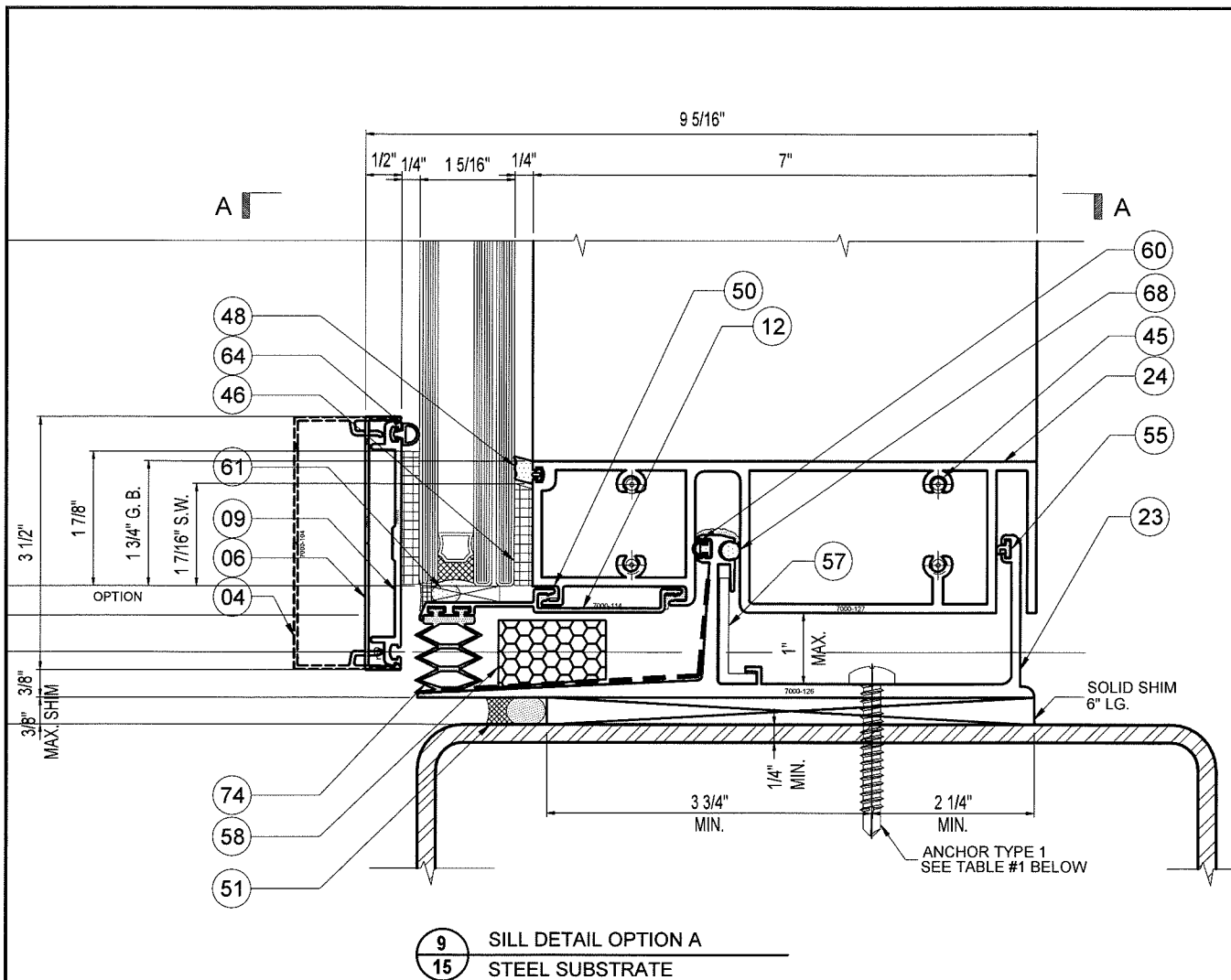
GLAZING CONSULTANTS

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MIAMI, FL 33183
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F: 305.921.4786
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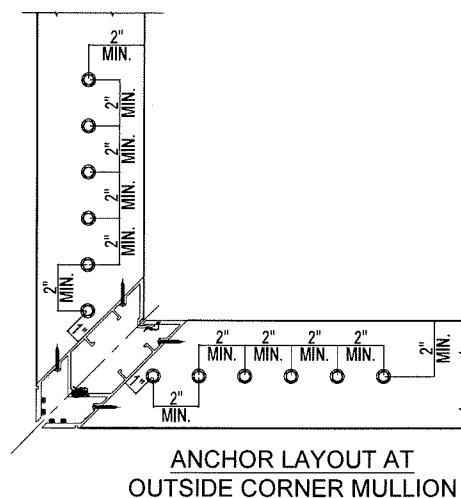
SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

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



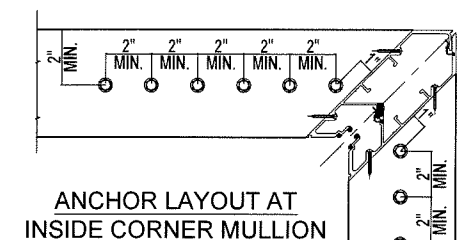
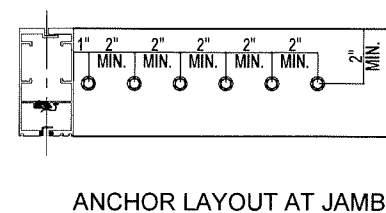
	SPAN	MAX. DESIGN LOAD (PSF)				
		MULLION SPACING (M. S.)				
	(in)	36	42	48	54	60
AO#1 (4200 lbs)	120	187	187	187	187	168
	126	187	187	187	178	160
	132	187	187	187	170	153
	138	187	187	183	162	146
	144	187	187	175	156	140
AO#2 (3500 lbs)	120	187	187	175	156	140
	126	187	187	167	148	133
	132	187	182	159	141	127
	138	187	174	152	135	122
	144	187	167	146	130	117
AO#3 (2800 lbs)	120	187	160	140	124	112
	126	178	152	133	119	107
	132	170	145	127	113	102
	138	162	139	122	108	97
	144	156	133	117	104	93



SECTION A-A

ANCHOR TYPE 1 : 5/16" SELF DRILLING SCREWS
(GRADE 5 Fu=120ksi Fy=92ksi)
INTO METAL STRUCTURES

STEEL : 1/4" MIN. THICKNESS (Fy= 36 ksi MIN.)
(STEEL IN CONTACT WITH ALUMINUM
TO BE PLATED OR PAINTED)



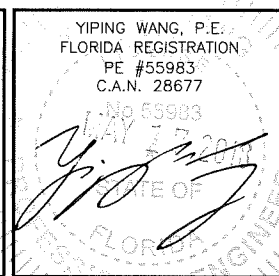
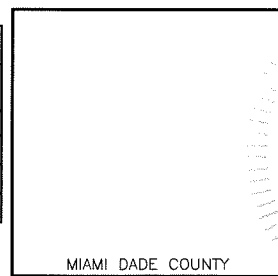
ANCHOR LAYOUT AT TYP. MULLION

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

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

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

PRODUCT REVISED
as complying with the Florida
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Expiration Date June 6, 2023
By *Manuel Perez*
Miami Dade Product Control



REVISIONS

NO	DATE	DESCRIPTION
1	8/4/15	UPDATE TO 2014 FBC
2	8/30/18	UPDATE TO 2017 FBC

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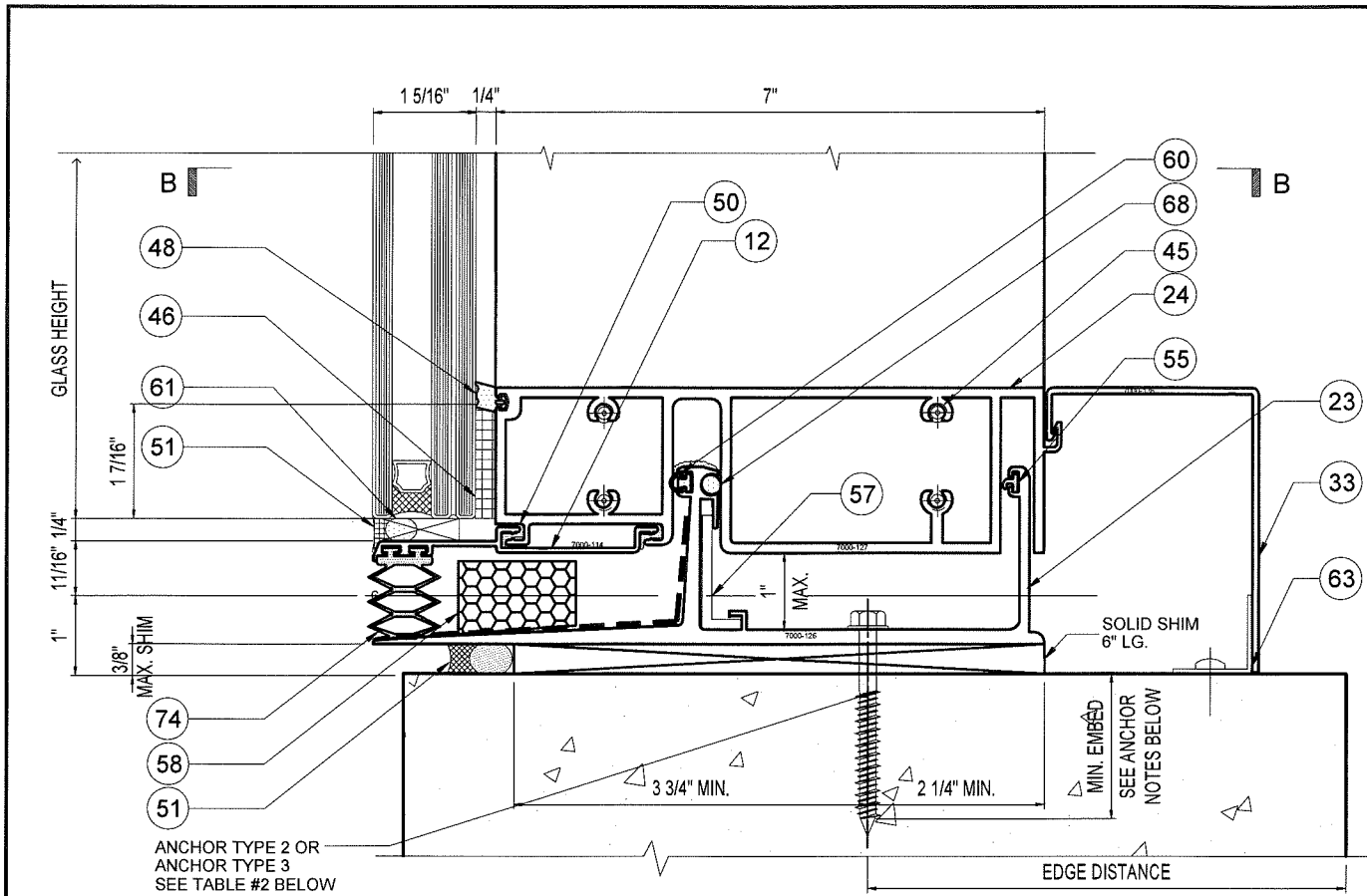
8501 SW 124 AVE. SUITE 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

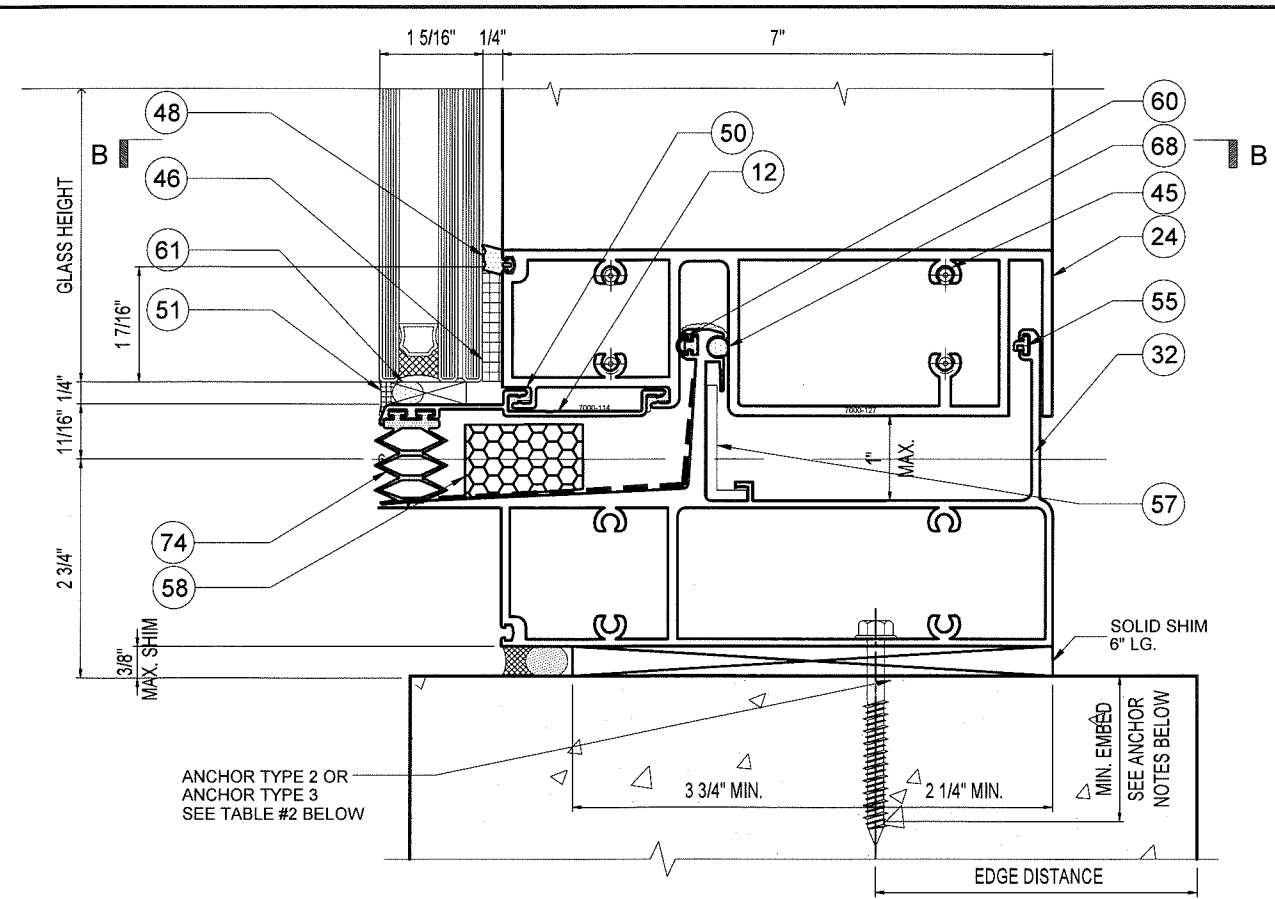
TECNOGLASS, LLC.

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

DATE	07/08/2016
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	15 OF 38

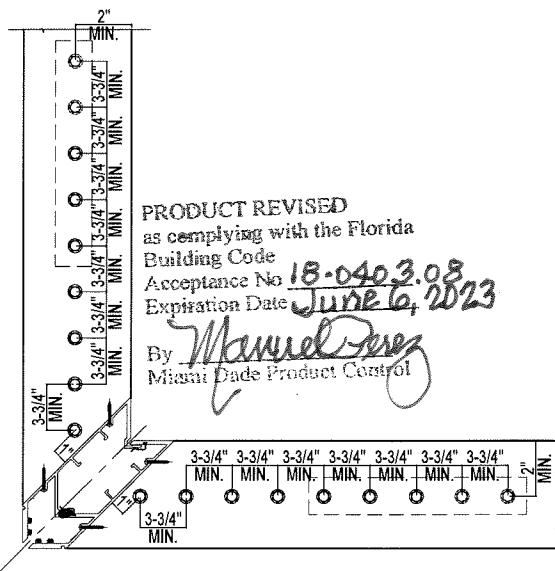


10 SILL DETAIL OPTION C
16 CONCRETE SUBSTRATE

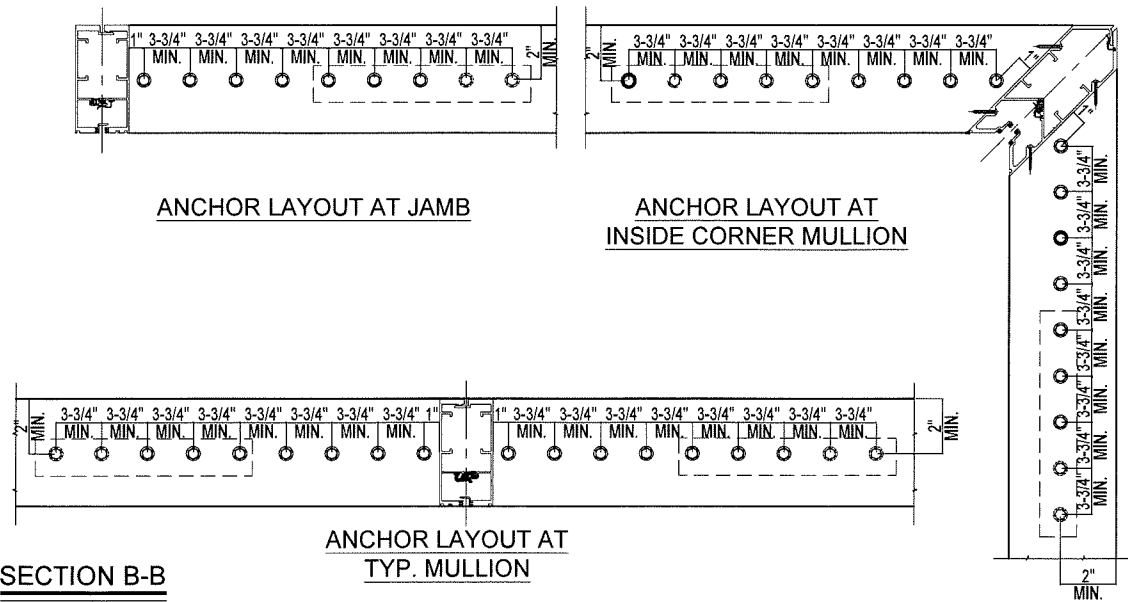


10 SILL DETAIL OPTION D
16 CONC. SUBSTRATE

	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 LAYOUT AT OUTSIDE CORNER MULLION



ANCHOR LAYOUT AT JAMB

ANCHOR LAYOUT AT INSIDE CORNER MULLION

SECTION B-B
ANCHOR LAYOUT AT TYP. MULLION

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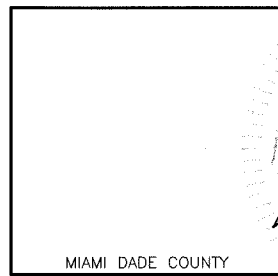
ANCHOR TYPE 2: 5/16" DIA. ULTRACON BY ELCO (Fu=177ksi Fy=155ksi)
DIRECTLY INTO CONCRETE fc' = 3515 psi MIN.
1-3/4" MIN. EMBED. INTO CONCRETE
3-1/8" MIN. EDGE DISTANCE

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.

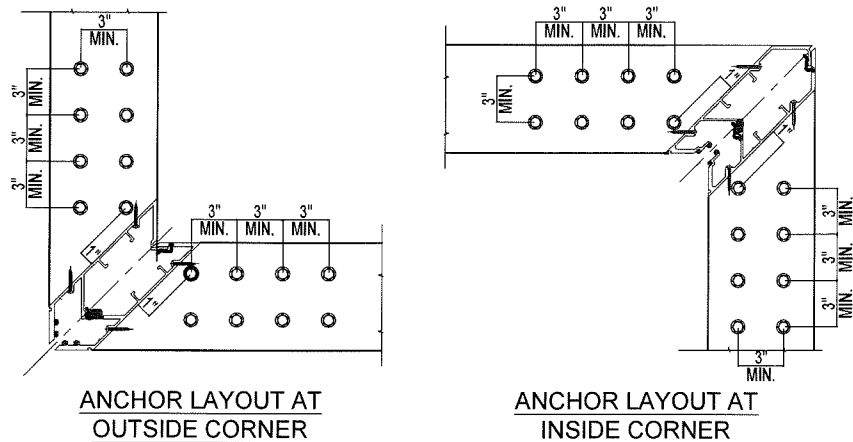
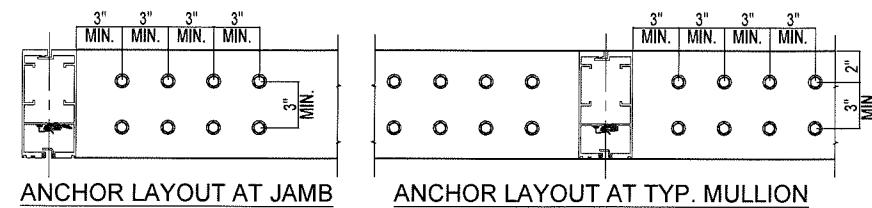
ANCHOR OPTIONS (Rmax. LBS)	OPTION C NO. OF ANCHORS @EA.SIDE OF MULL.		OPTION D NO. OF ANCHORS @EA.SIDE OF MULL.	
	ANCHOR TYPE 2	ANCHOR TYPE 3	ANCHOR TYPE 2	ANCHOR TYPE 3
AO#1 (4200)	7	7	9	8
AO#2 (3500)	6	5	8	6
AO#3 (2800)	5	4	6	5
AO#4 (2300)	4	4	5	4

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

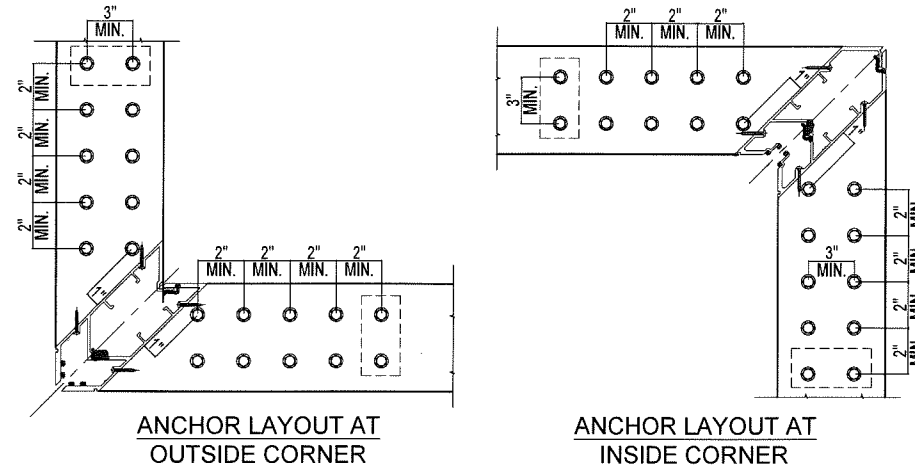
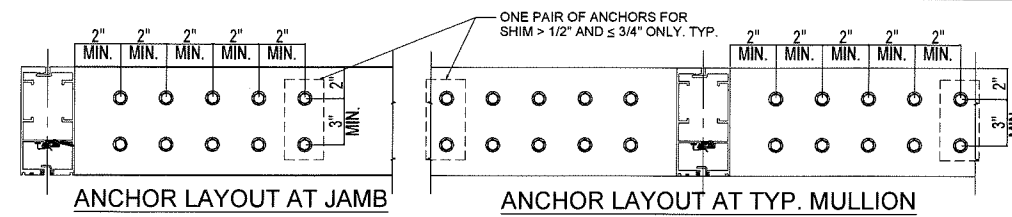


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No 55983

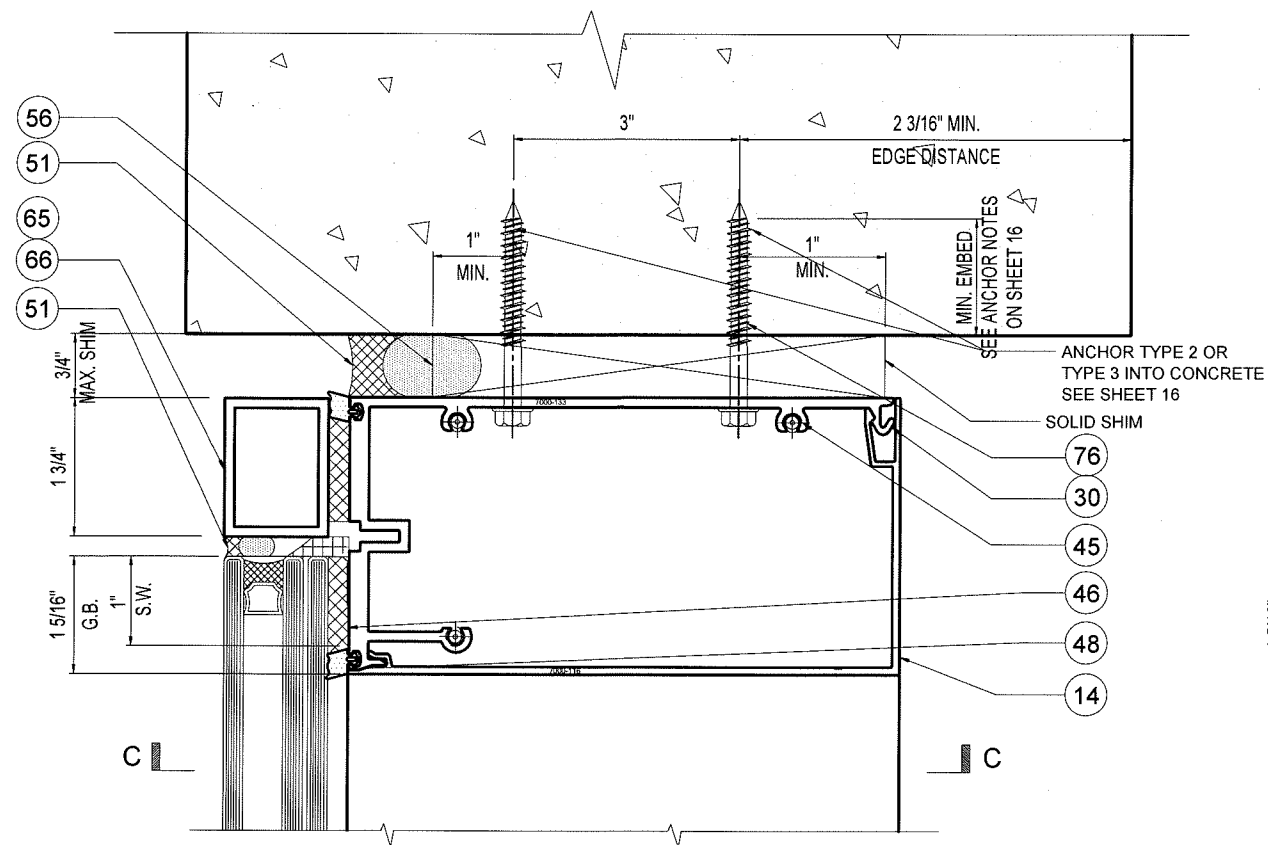
MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. SUITE 205A MIAMI, FL 33183 P: 305.271.0117 F: 305.921.4786 www.MCYEngineering.com MCY.Engineering@Att.net		TECNOGLASS, LLC. 3550 NW 49th Street, MIAMI, FL 33142 Phone (305) 342-0890 Fax (786) 513-3965
REVISIONS NO DATE DESCRIPTION A 6/4/15 UPDATE TO 2014 FBC B 6/30/18 UPDATE TO 2017 FBC	DATE 07/08/2016 SCALE AS NOTED DRAWN A.R. PROJECT MCY15-088	DRAWING NO. AD12-65 SHEET 16 OF 38



SECTION C-C

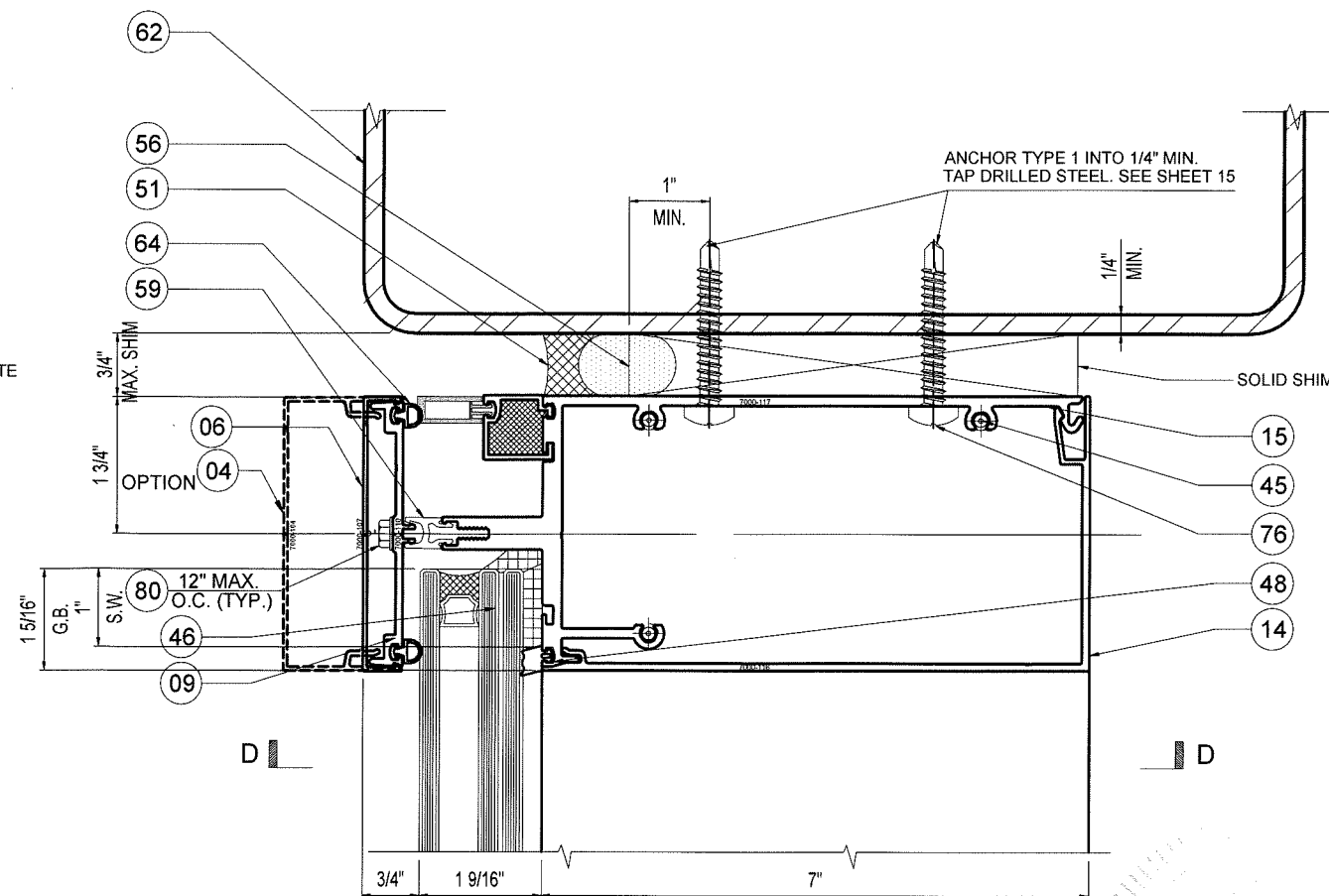


SECTION D-D



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

17 PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 18-0403.08
Expiration Date June 6, 2023
By Manuel Perez
Miami Dade Product Control

MIAMI DADE COUNTY

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C.A.N. 28677

YIPING WANG

DATE	07/08/2016
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PROJECT	MCY15-088

DRAWING NO.
AD12-65

SHEET 17 OF 38

SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.

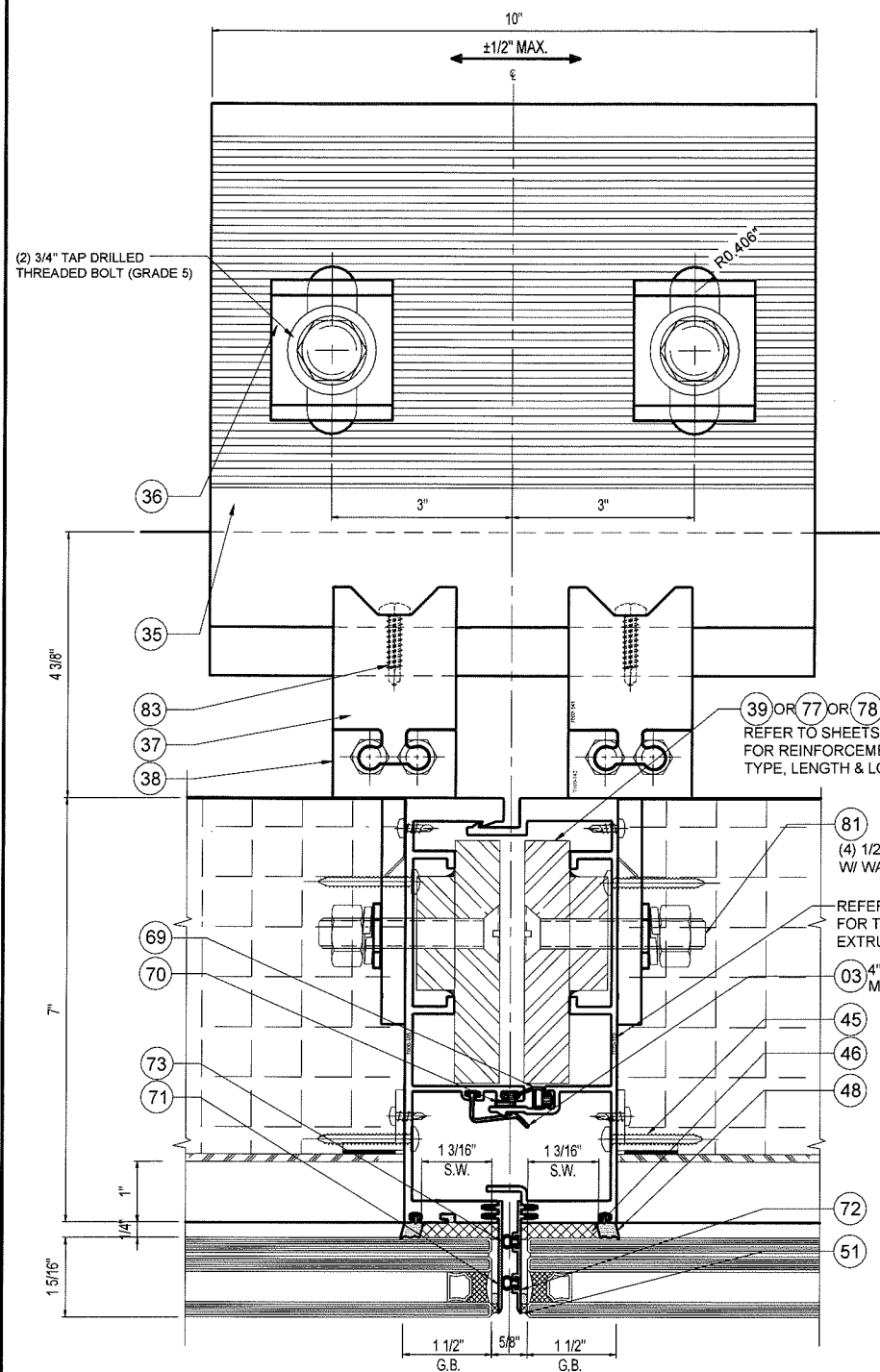
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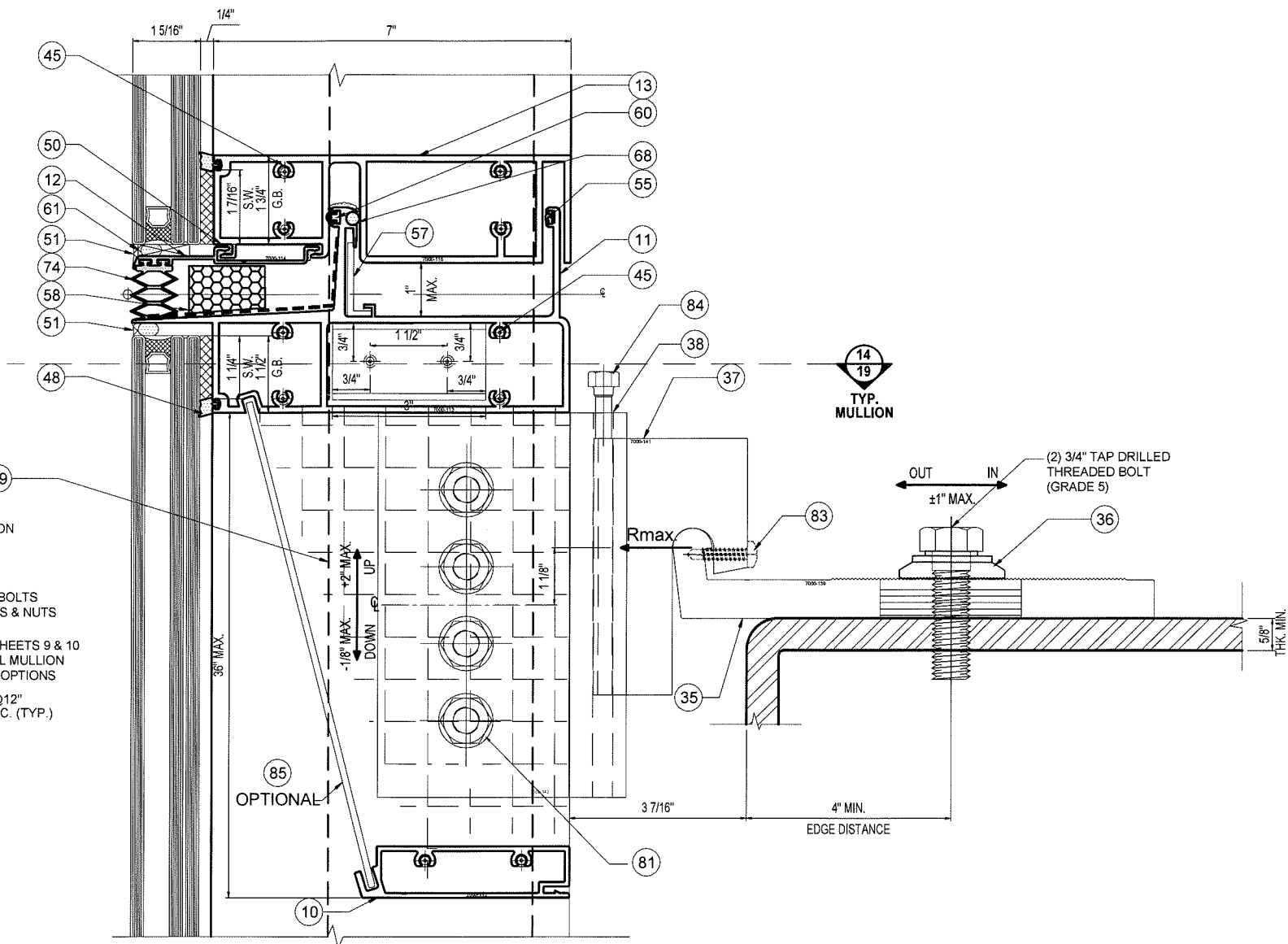
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14
19 TYP. MULLION - ANCHOR TYPE B



15
19 EXP. JOINT - ANCHOR TYPE B SECTION

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Expiration Date **June 6, 2023**
By **Manuel Diaz**
Miami Dade Product Control

MIAMI DADE COUNTY

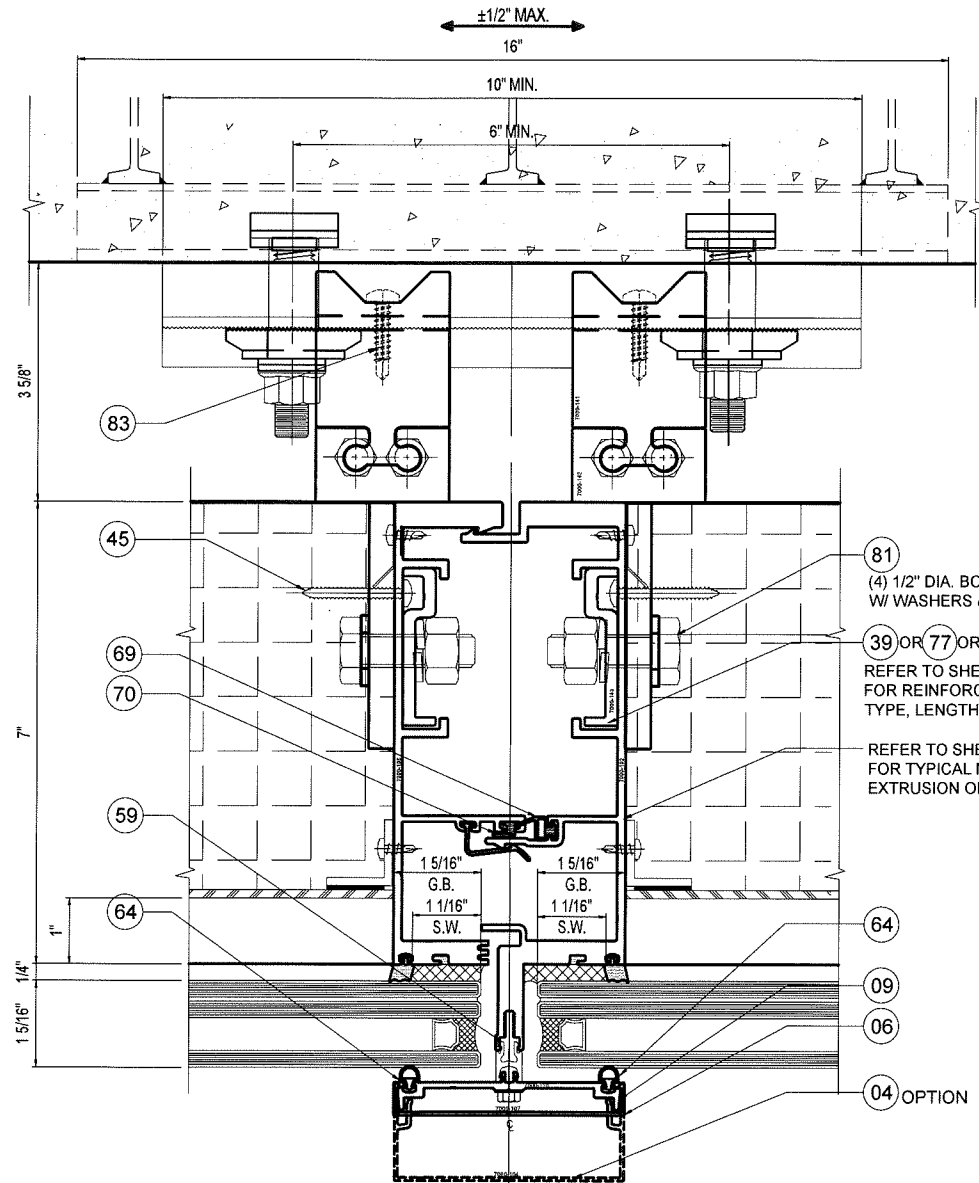
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FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
JUL 17 2018
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SERIES 7000 ALUMINUM CURTAIN WALL - SMI
TECNOGLASS, LLC.
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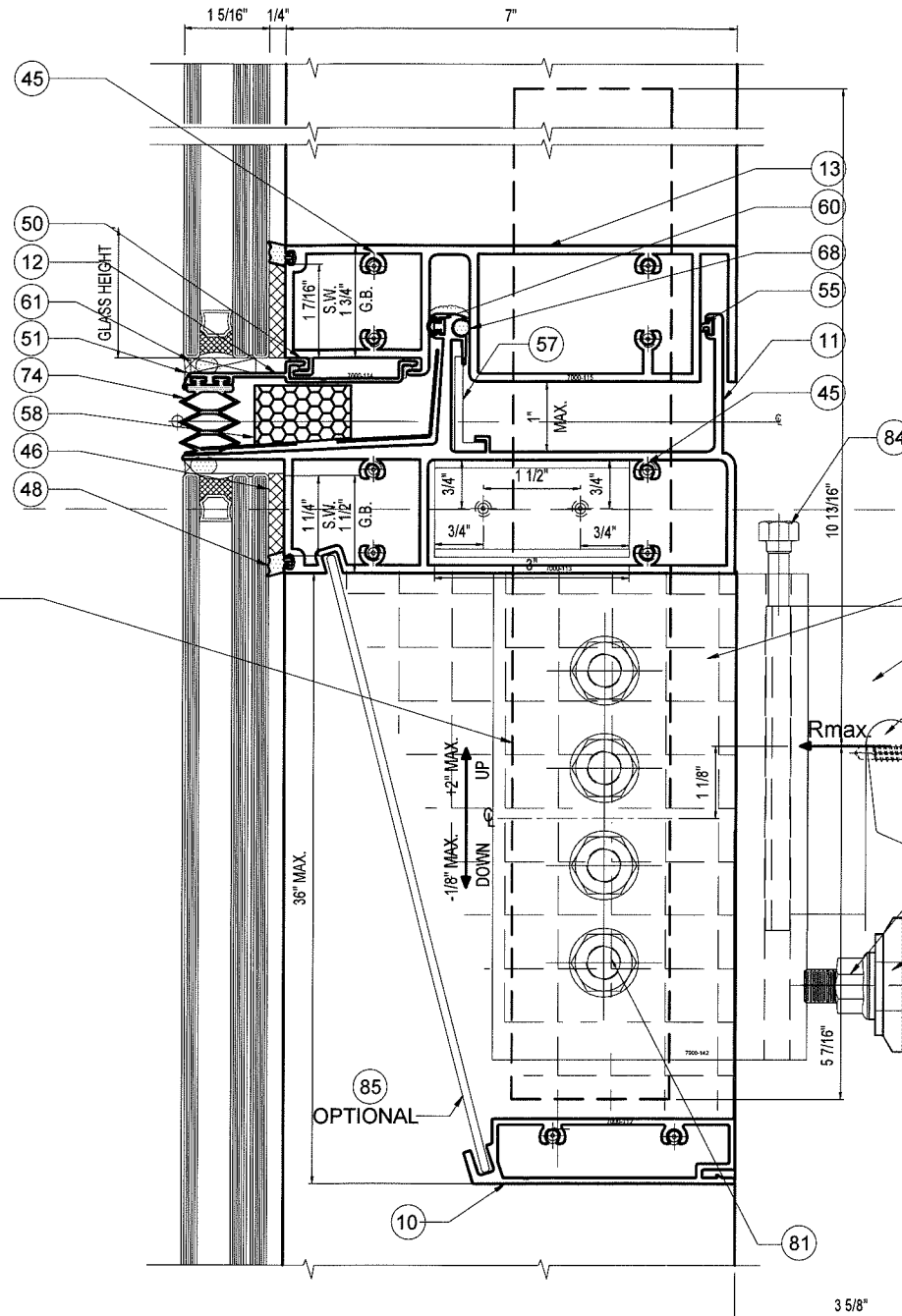
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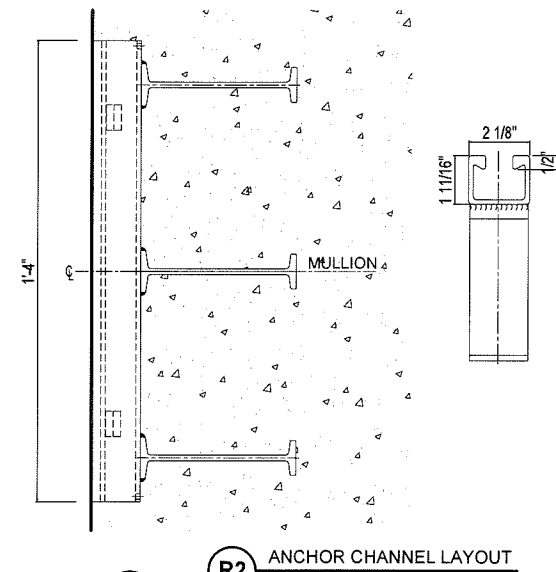
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DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	19 OF 38



16
20 TYP. MULLION - ANCHOR TYPE C



17
20 EXP. JOINT - ANCHOR TYPE C SECTION



R2 ANCHOR CHANNEL LAYOUT

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

PRODUCT REVISED
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Acceptance No. 18-0403.08
Expiration Date June 6, 2023
By *Manuel Perez*
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
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PE #55983
C.A.N. 28677

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AD12-65
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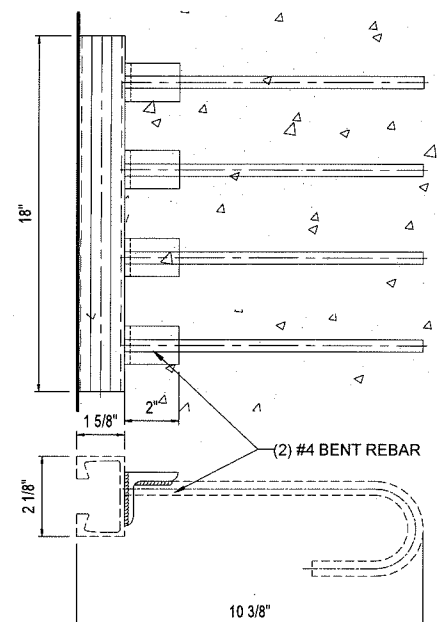
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1	6/4/15	UPDATE TO 2014 FBC
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18
21
TYP.
MULLION

R3

— (4) 2" X 1 1/2" X 1/4"
STEEL ANGLE
1 1/2" L.G. A36

(4) M20 GRADE 8.8
— HALFEN TEE BOLT
AT 5" O.C. MIN.

3/16" ∇ 2" typ.

4"  1/8" 2" typ.

HALFEN CHANNEL
5542 HM 18" LONG W/
(4) # 4 REBAR
HOT DIP GALVANIZED
FINISH BY OTHERS
CONCRETE BY OTHERS

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

MIAMI DADE COUNTY

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3330 NW 45th Street, MIAMI, FL 33142
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MIAMI, FL 33183
P: 305.271.0117
F: 305.921.4786

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www.MCYEngineering.com

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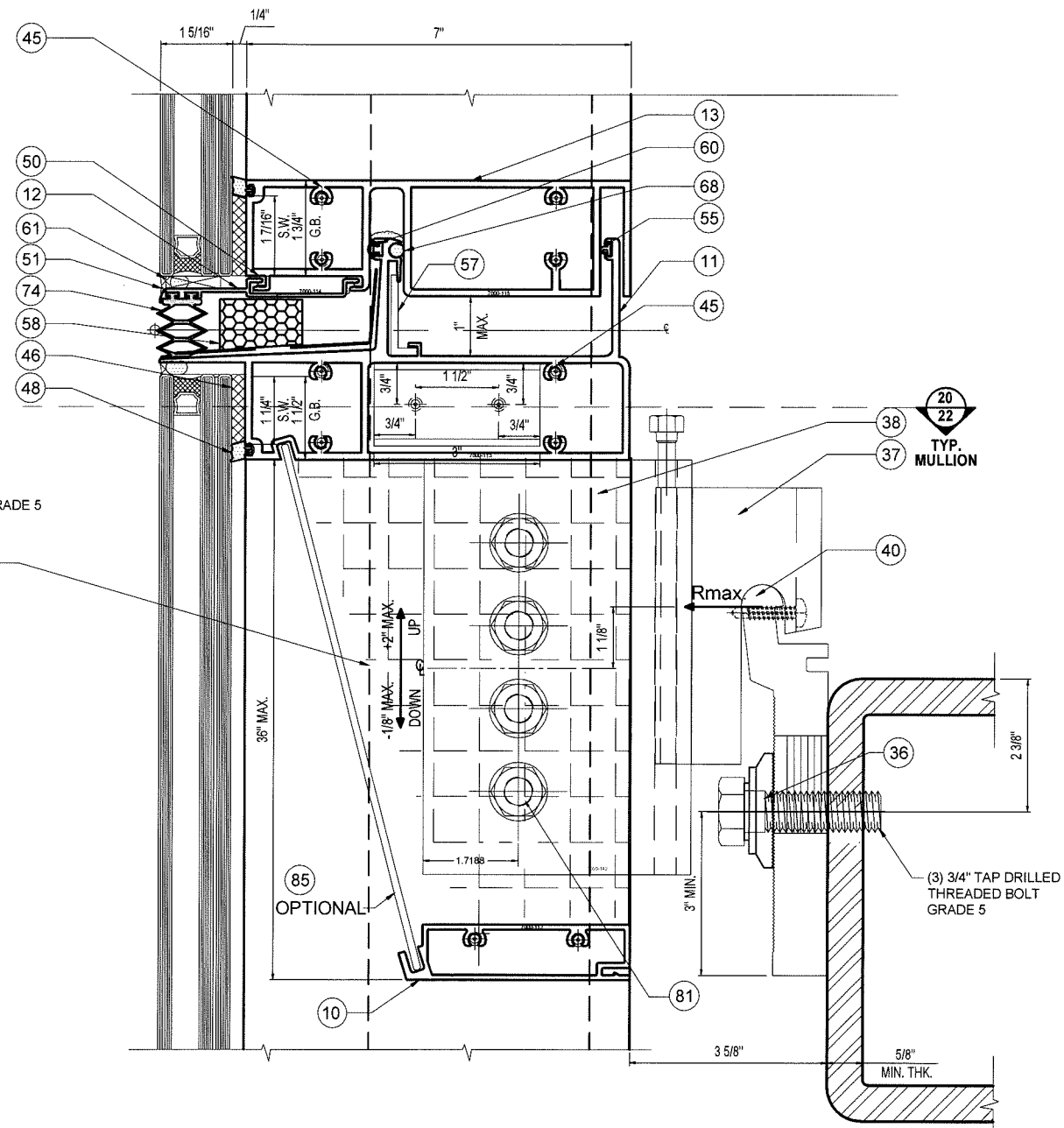
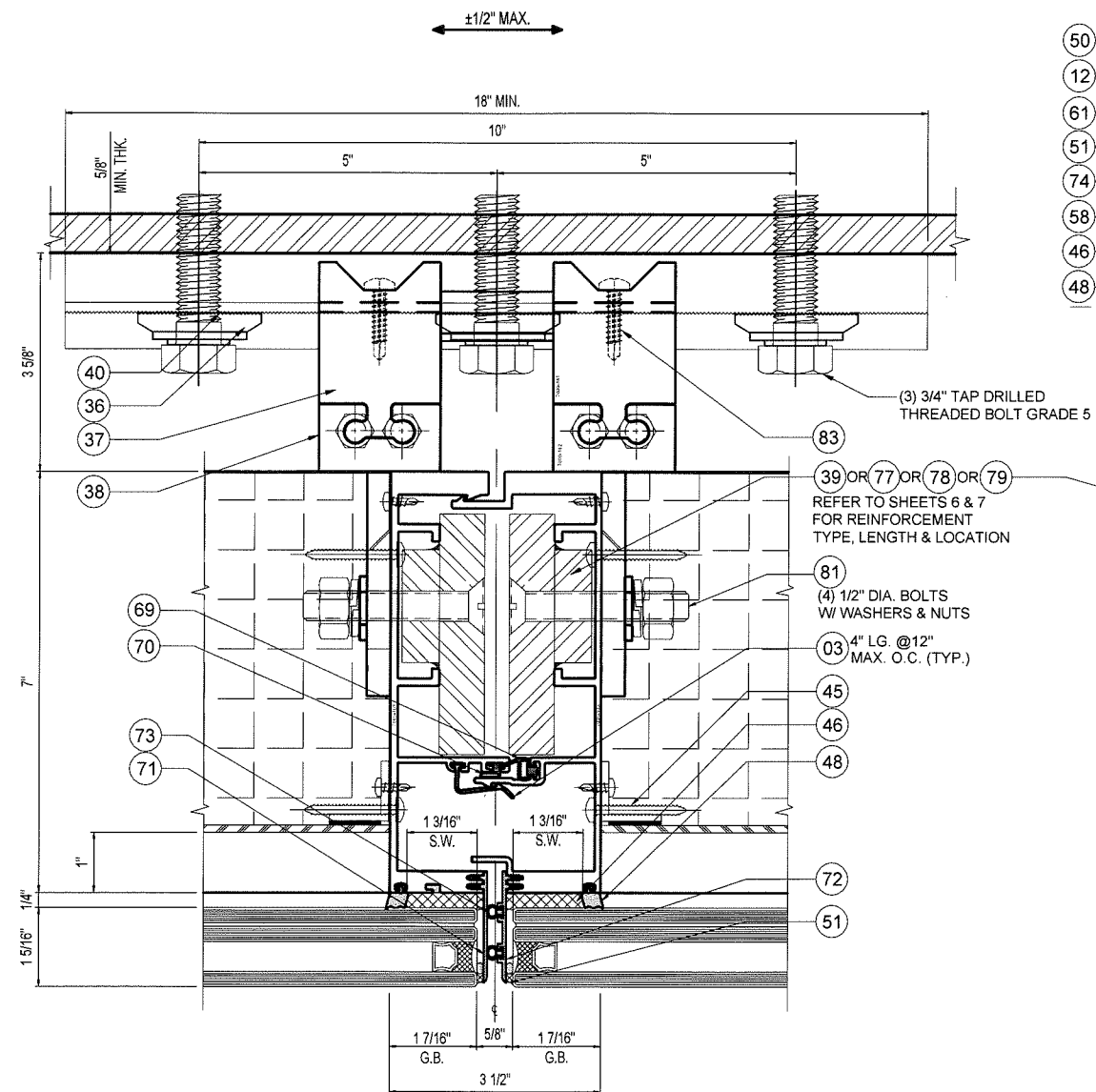
PRODUCT REVISED
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Acceptance No 18-0403 DB
Expiration Date June 6, 2023
By Manuel Perez
Miami Dade Product Control

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

DATE	07/08/2016
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DRAWING NO.
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SHEET 21 OF 38



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By Miguel Perez
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55983
PE #55983
C.A.N. 28677

DATE	07/08/2016
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DRAWN	A.R.
PROJECT	MCY15-088

DRAWING NO.

AD12-65

SHEET 22 OF 38

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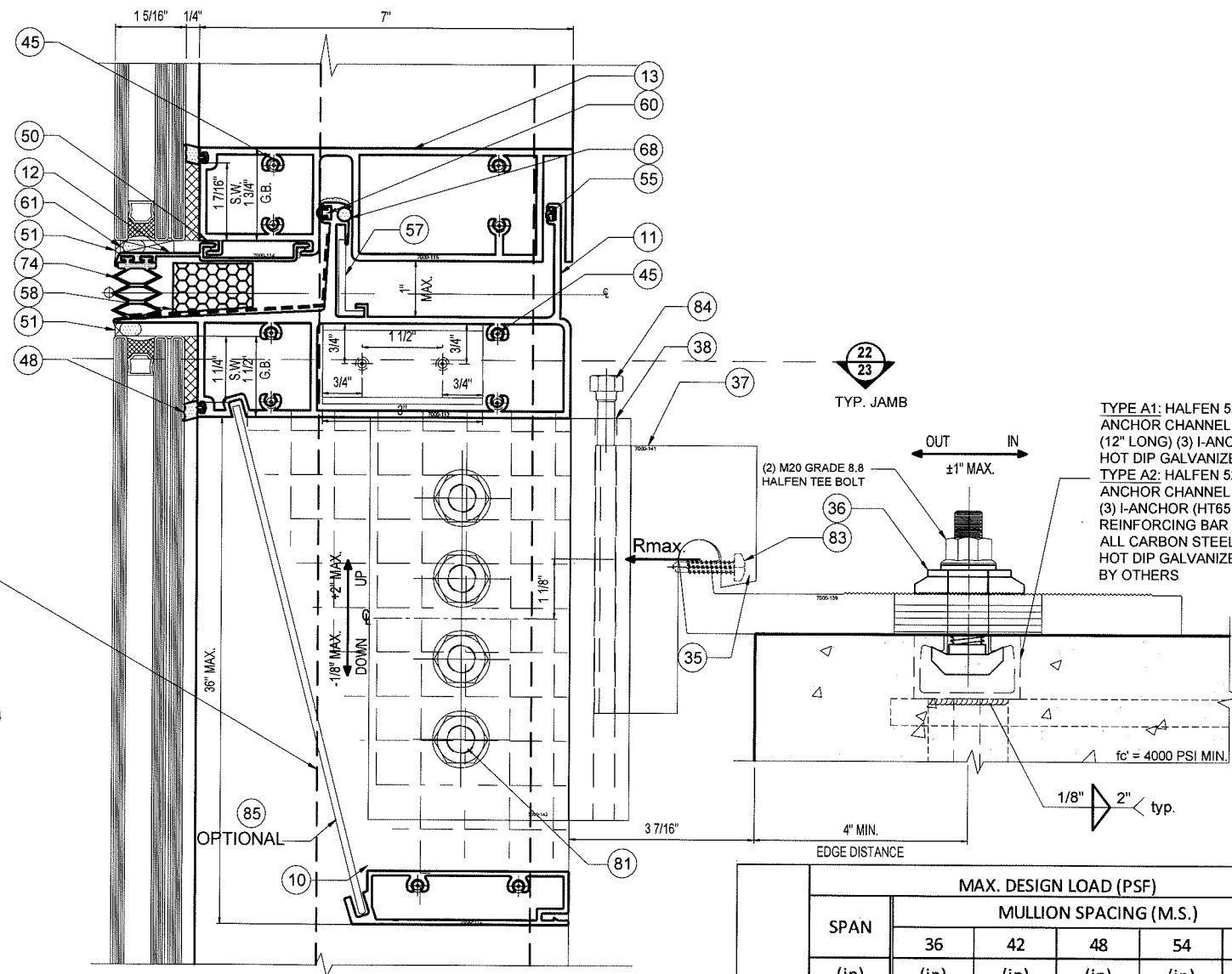
AVE SUITE 205A D. 205

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2	3/30/16 UPDATE TO 2017 FBC



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

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

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

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By Manuel Perez
Miami/Dade Product Control

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FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

No 55983

MIAMI DADE COUNTY

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NO.	DATE DESCRIPTION



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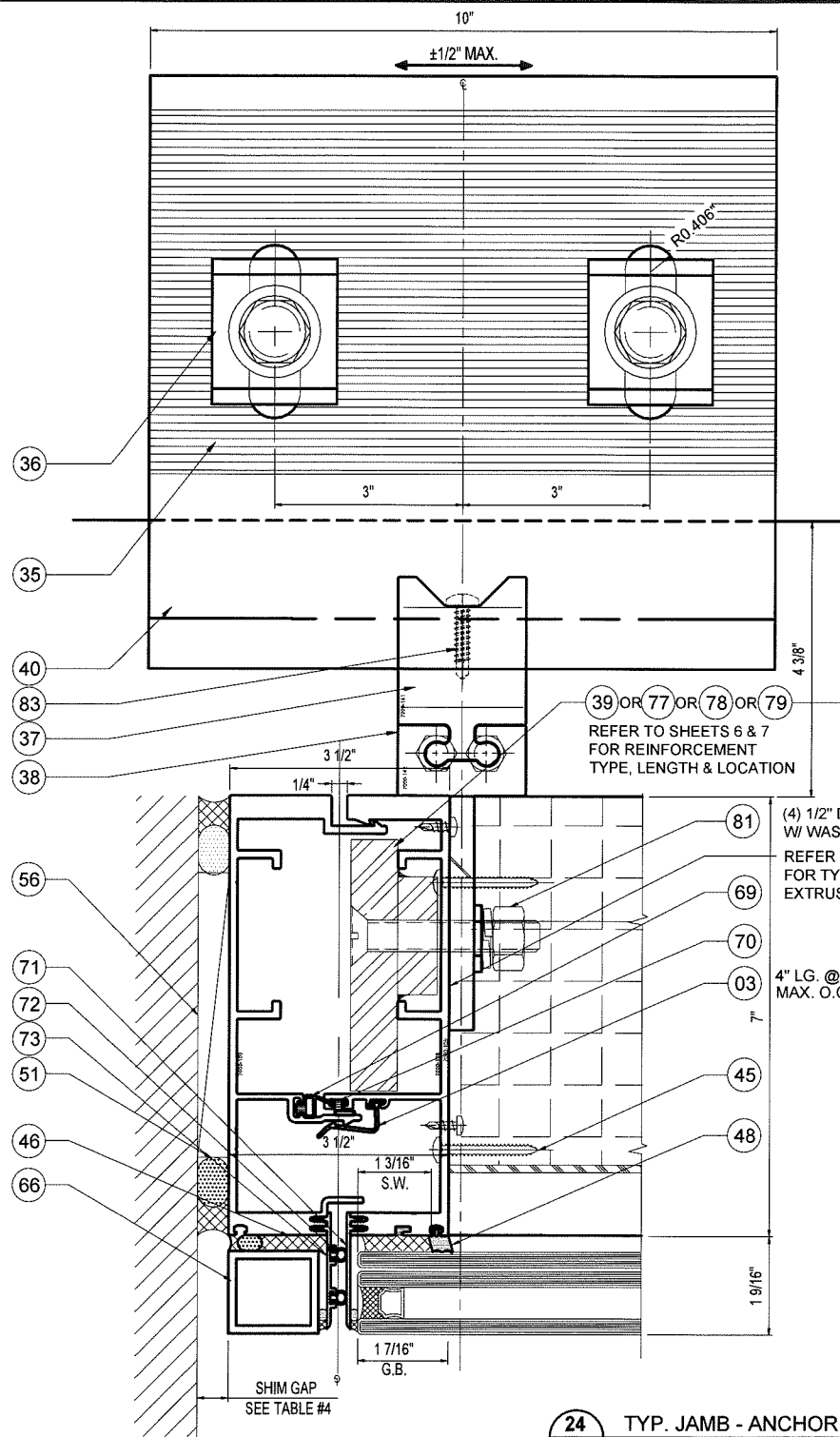
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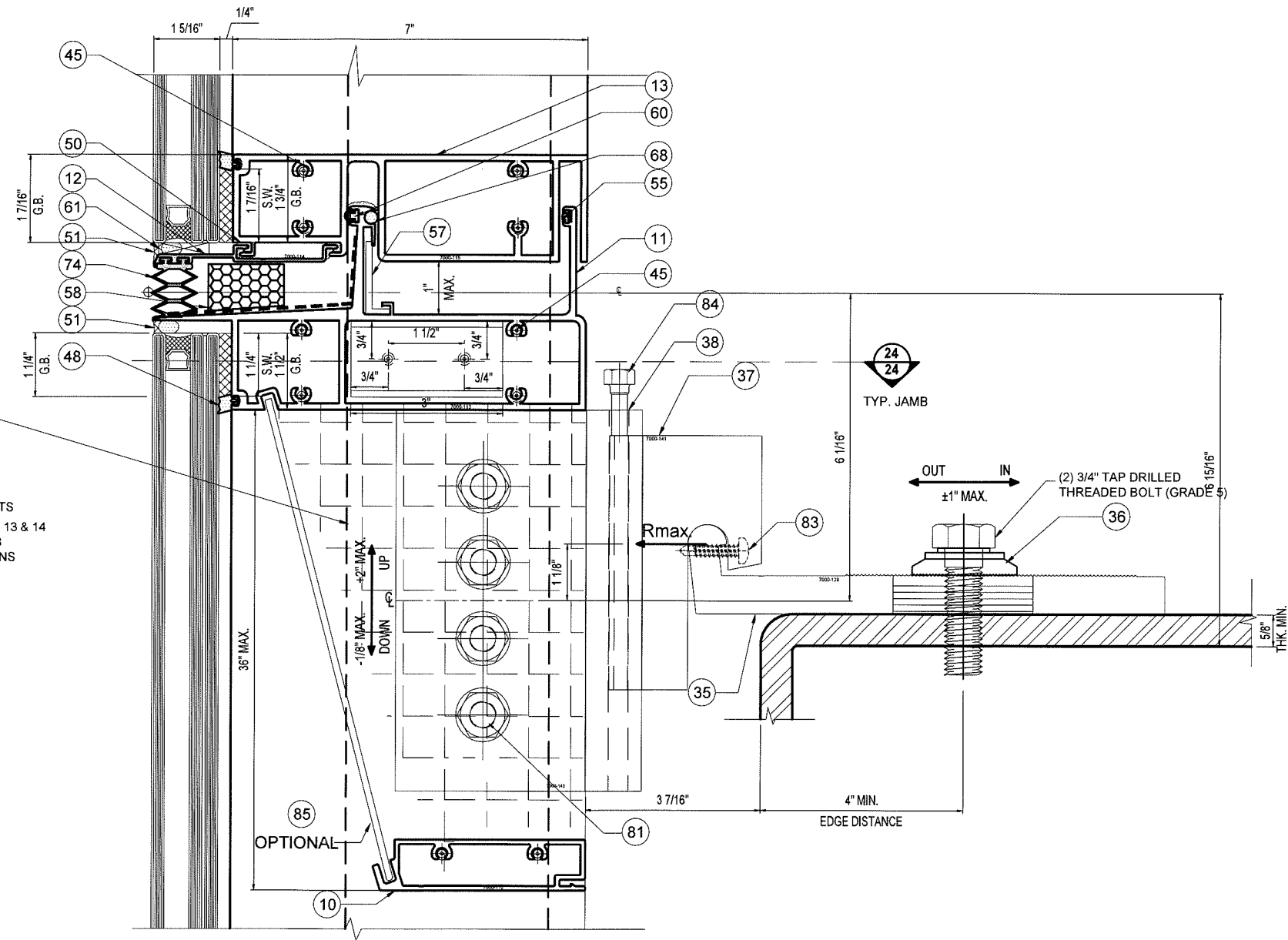


24 TYP. JAMB - ANCHOR TYPE B1

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 JAMB EXP. JOINT - ANCHOR TYPE B1
24 SECTION

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By Wmuel Perez
Miami Trade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
MAY 17 2018

DATE	07/08/2016
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DRAWN	A.R.
PROJECT	MCY15-088
DRAWING NO.	AD12-65
SHEET	24 OF 38

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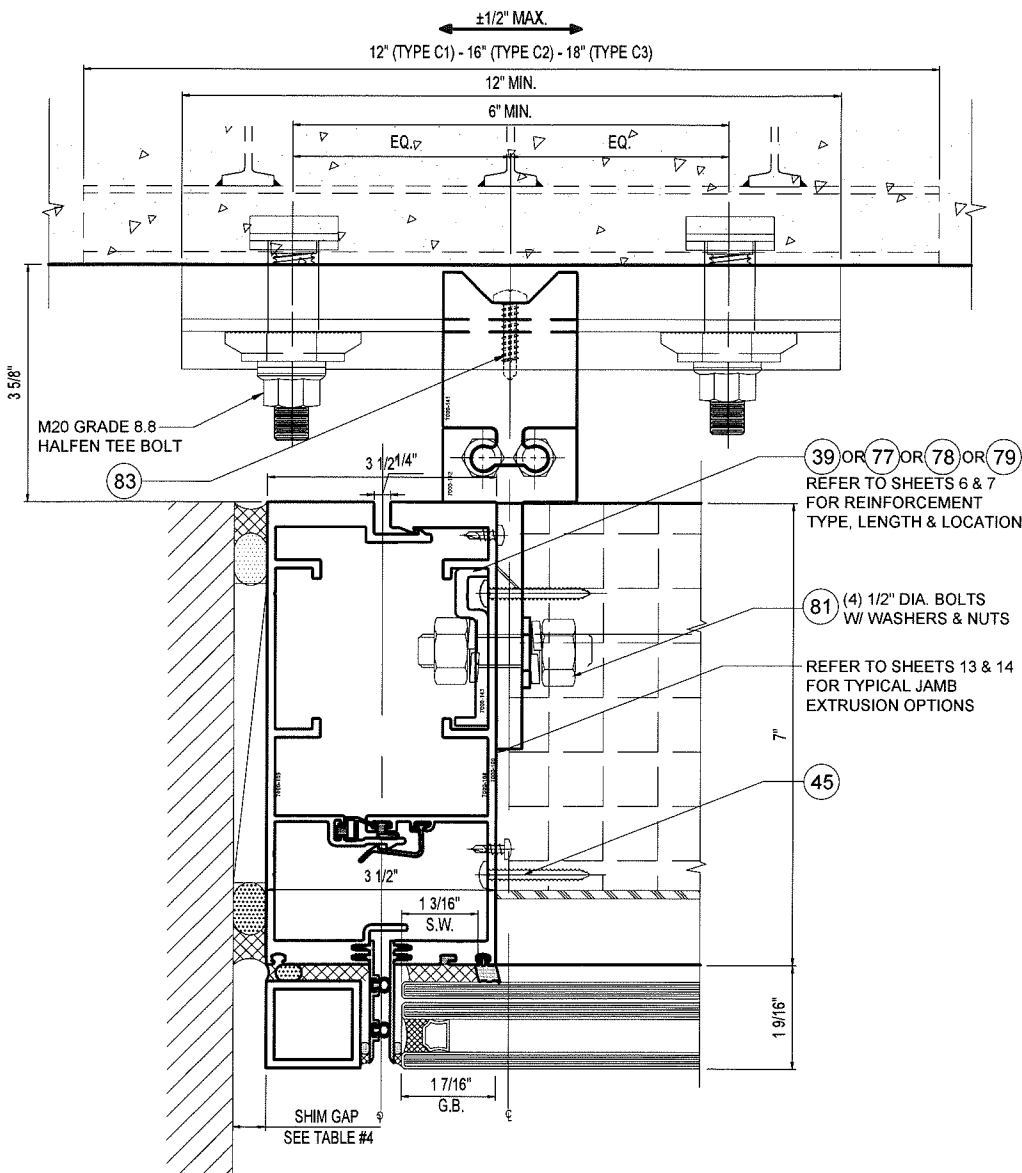
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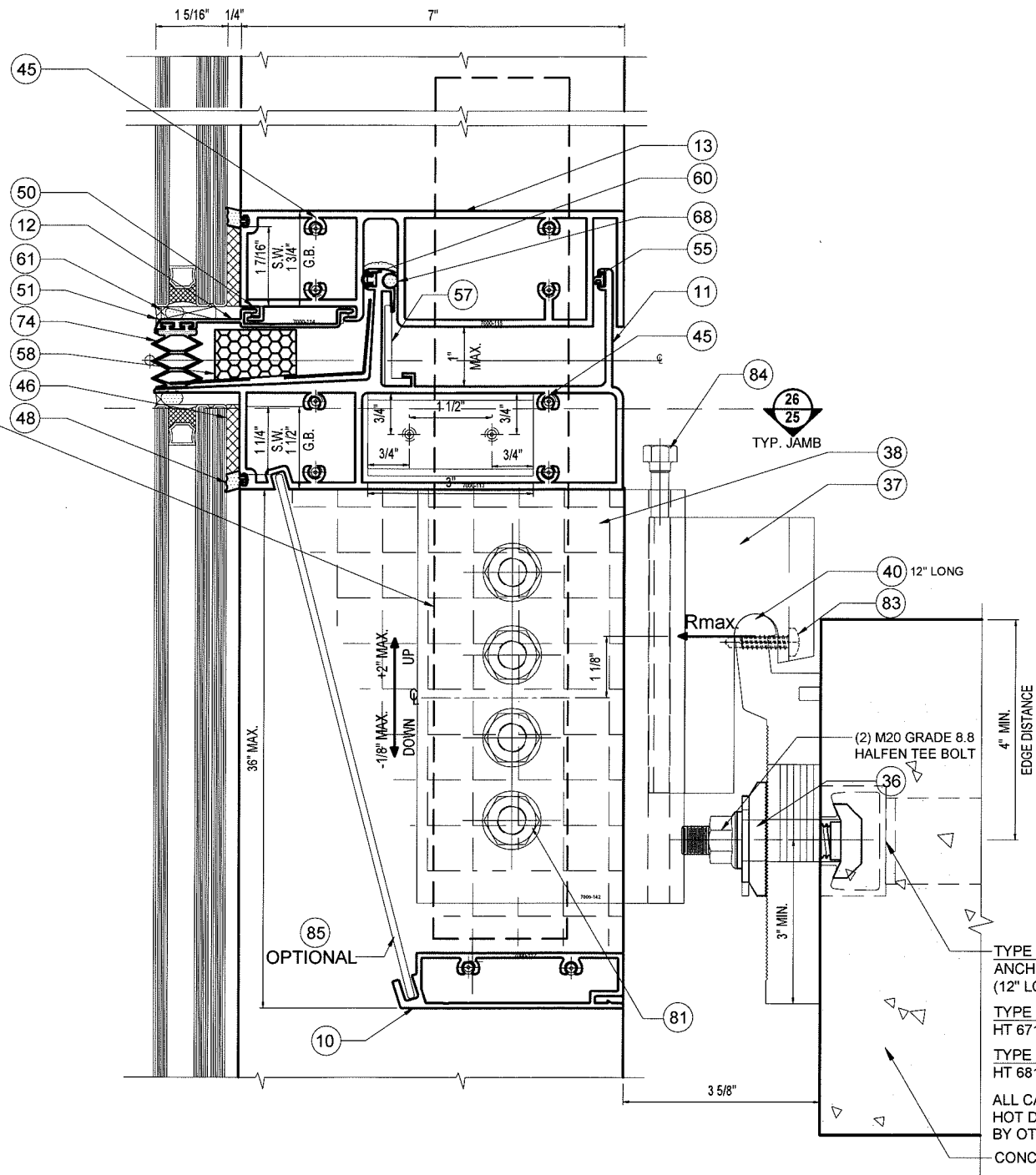
REVISIONS

NO	DATE	DESCRIPTION
1	8/4/15	UPDATE TO 2014 FBC
2	8/30/18	UPDATE TO 2017 FBC



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	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



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

TYPE C1: HALFEN 5234 HM ANCHOR CHANNEL W/ HT 6112 (12\"/>

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MCY15-088

DRAWING NO.

AD12-65

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25 OF 38

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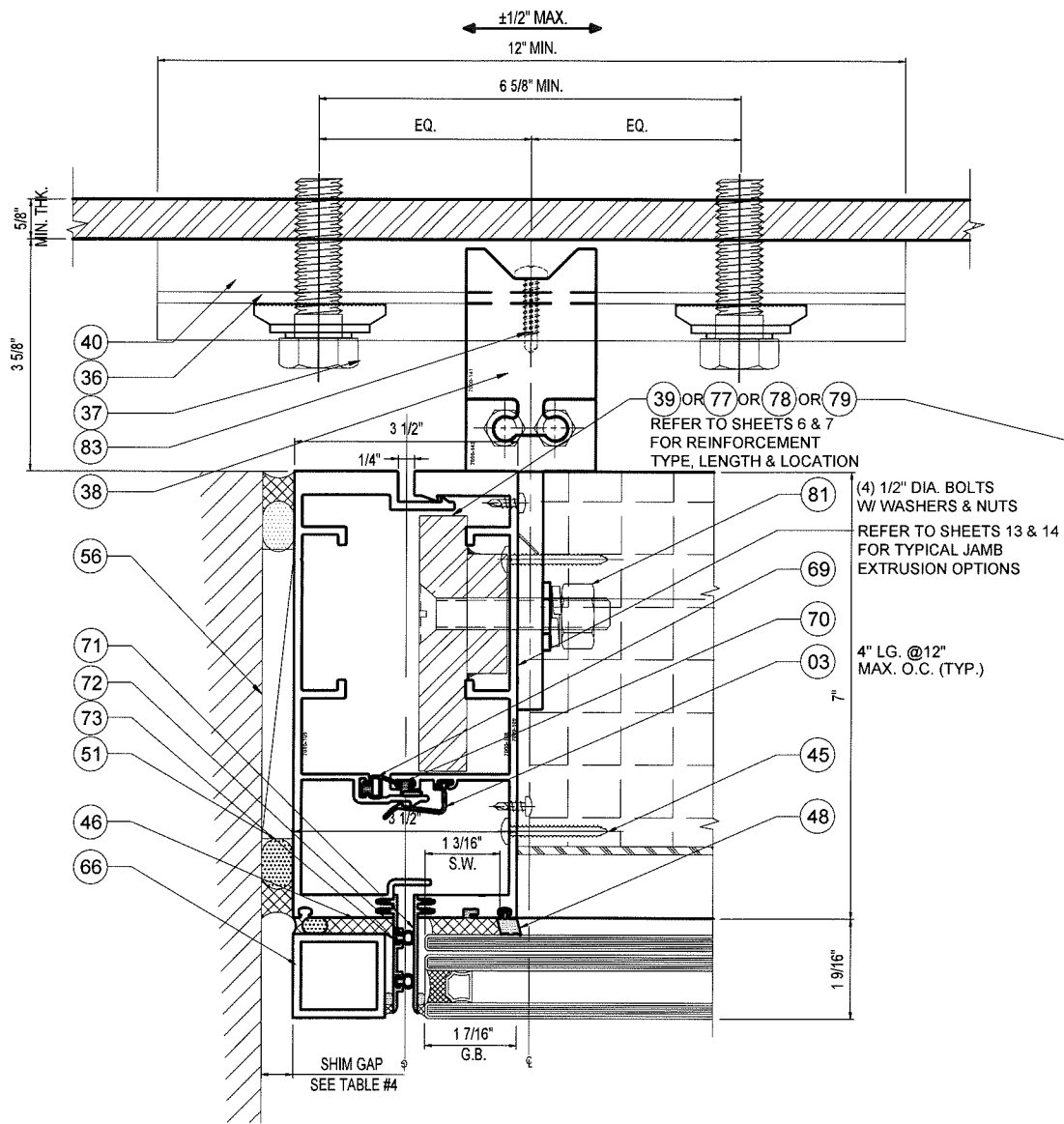
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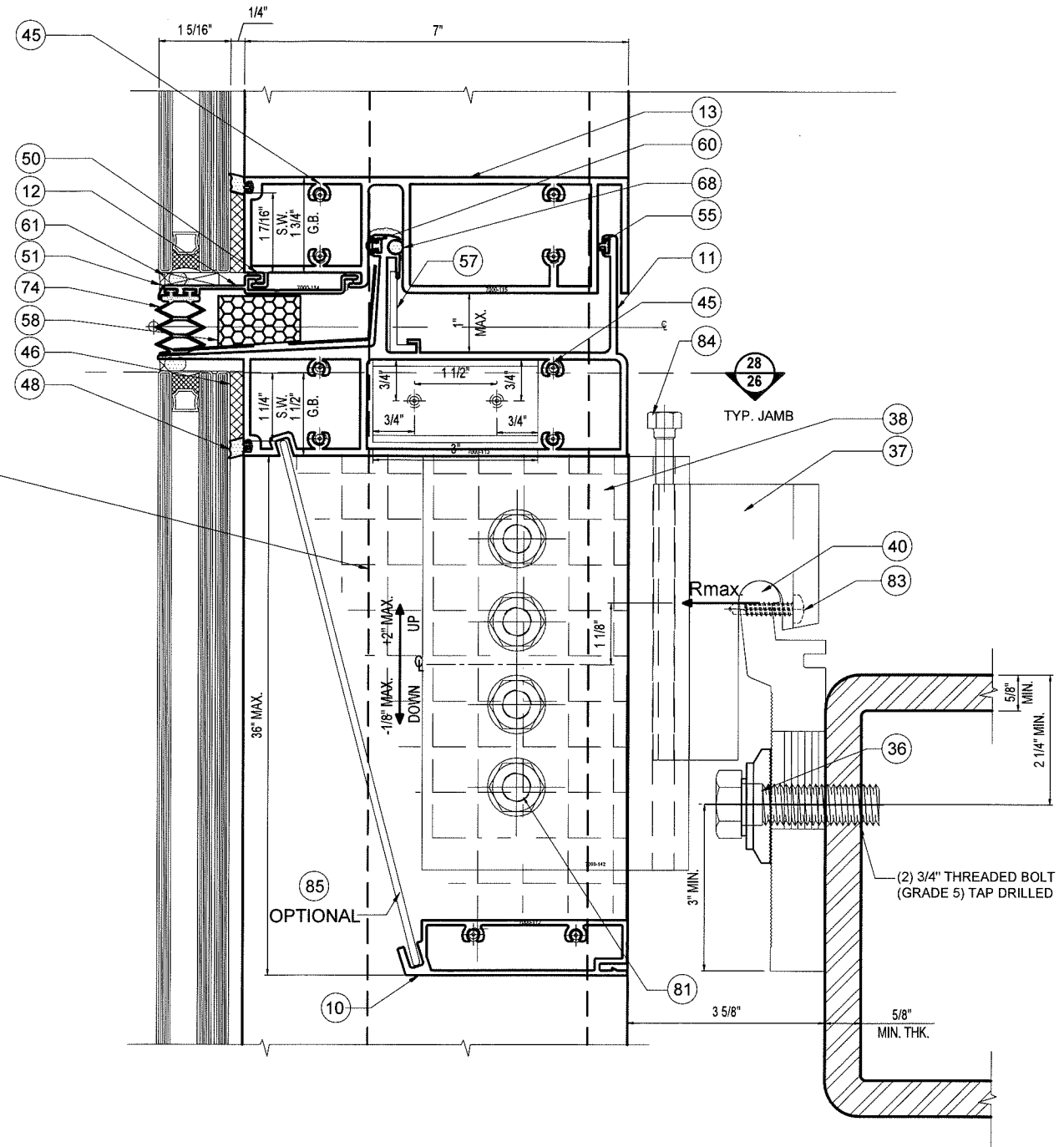
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28
26 TYP. JAMB - ANCHOR TYPE D1



29
26 JAMB EXP. JOINT - ANCHOR TYPE D1
SECTION

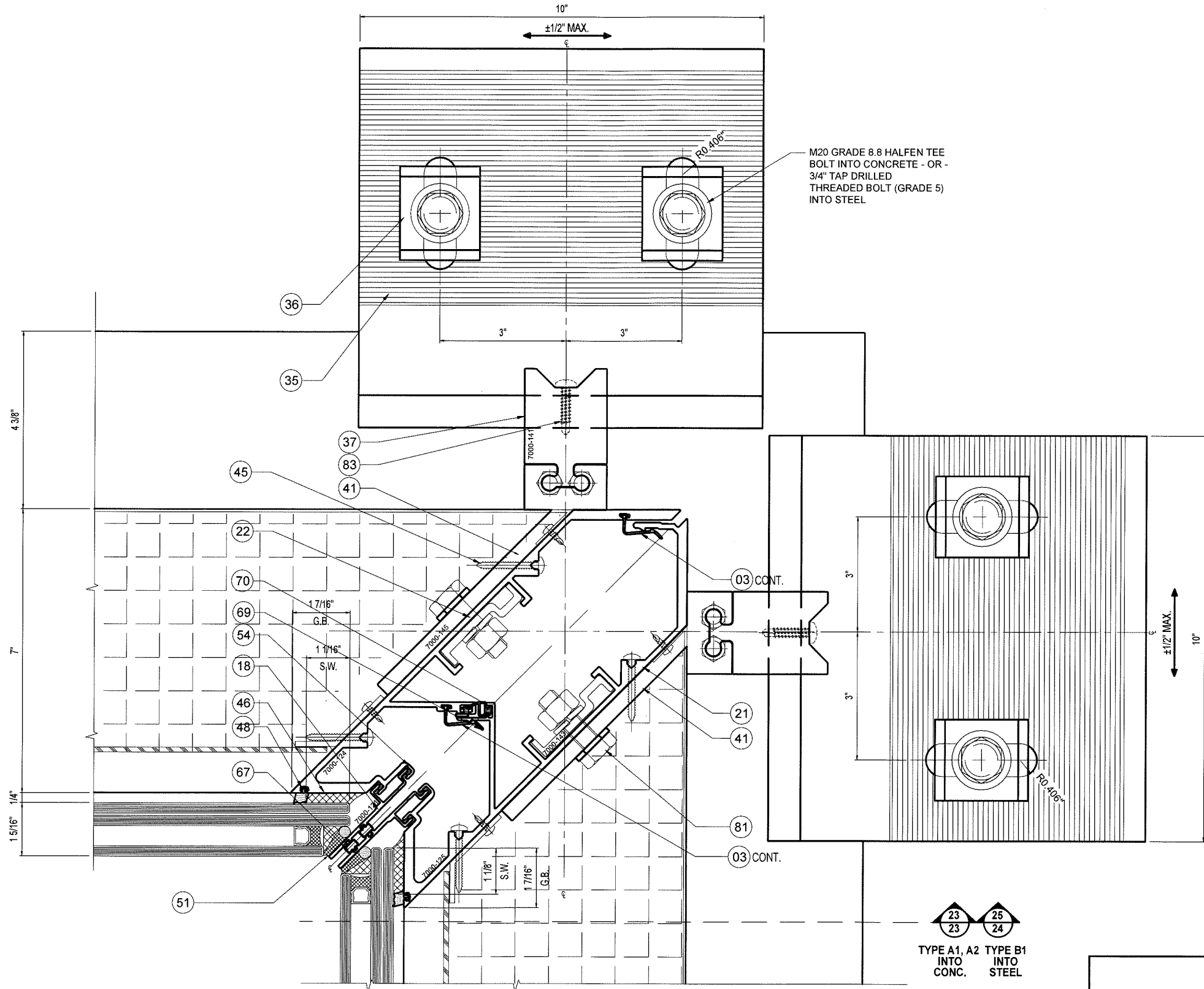
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30
27

INSIDE CORNER MULL. - ANCHOR TYPE A1, A2 OR B1



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Miami Dade Product Control

MIAMI DADE COUNTY

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DRAWING NO. AD12-65
SHEET 27 OF 38

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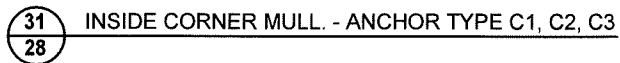
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TYPE C1, C2, C3

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By Manuel Funez
Miami Dade Product Control

MIAMI DADE COUNTY

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PE #55983
C.A.N. 28677

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SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088

DRAWING NO.
AD12-65

SHEET 28 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

8501 SW 124 AVE. SUITE 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering

MCY.Engineering@Att.net

REVISIONS	
NO.	DATE DESCRIPTION
1	6/4/15 UPDATE TO 2014 FBC
2	8/30/16 UPDATE TO 2017 FBC



YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

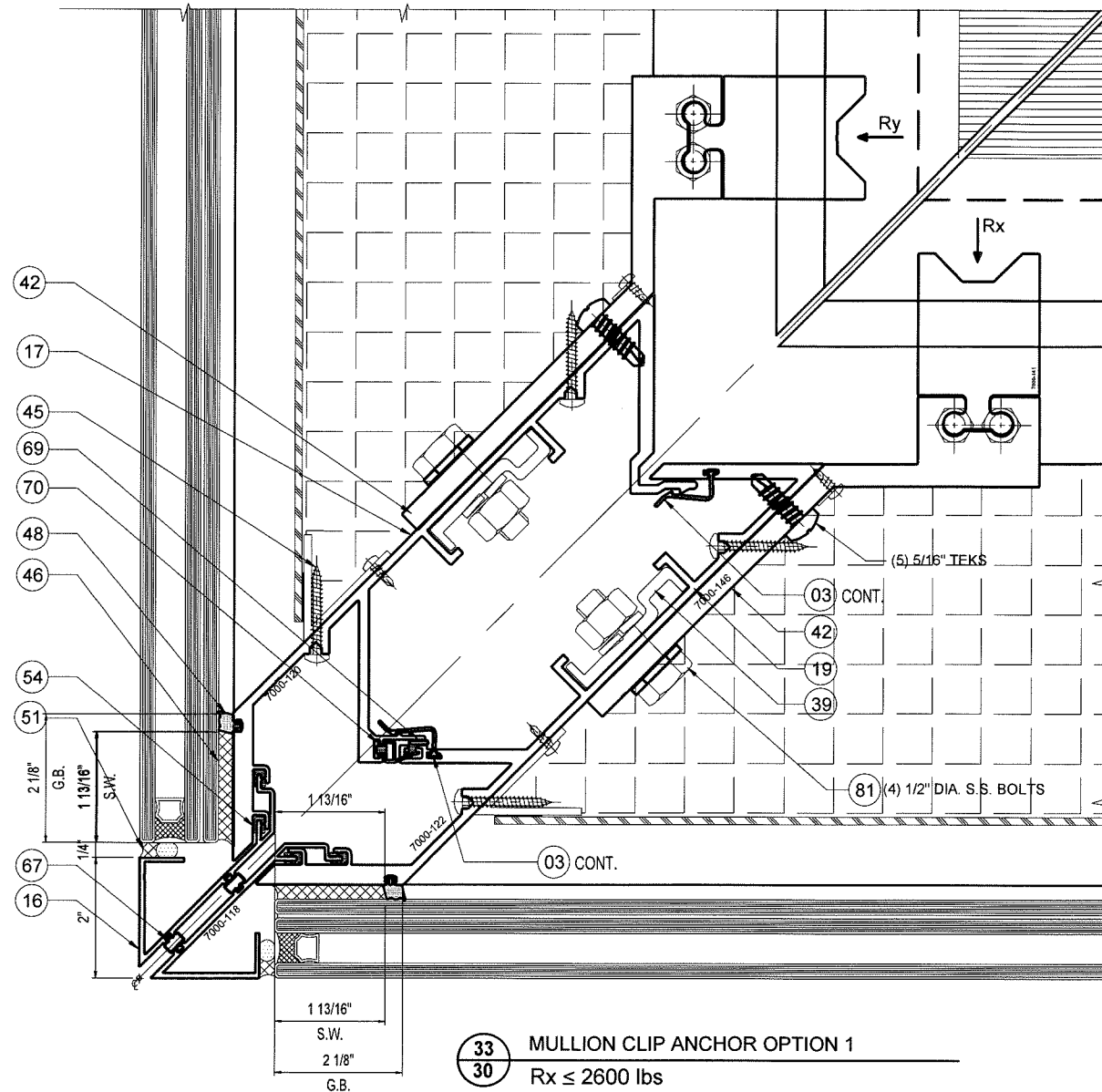
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PROJECT	MCY15-088

DRAWING NO.

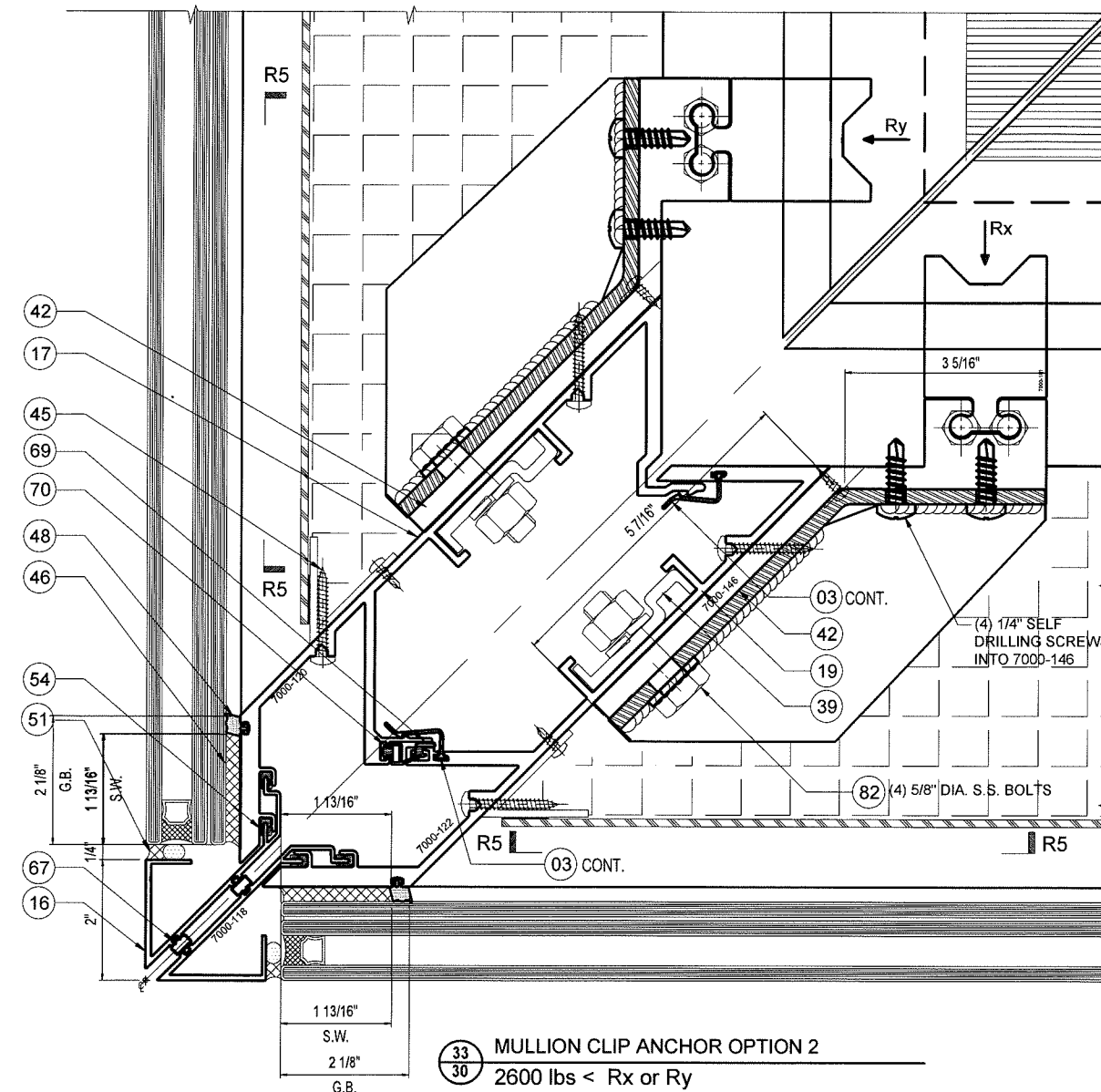
AD12-65

SHEET 29 OF 38

32 INSIDE CORNER MULL. - ANCHOR TYPE D1
29

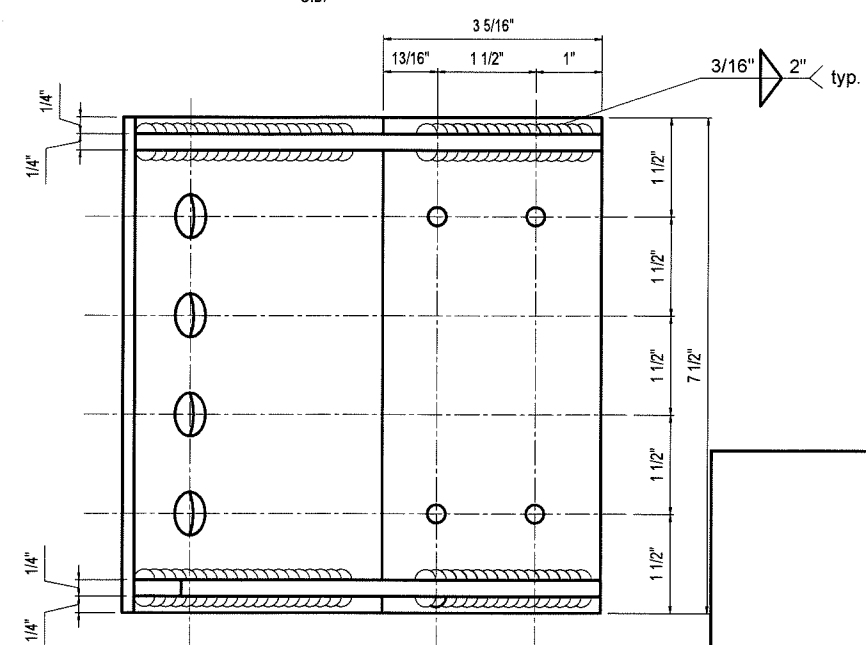


33
30 MULLION CLIP ANCHOR OPTION 1
Rx ≤ 2600 lbs



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

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



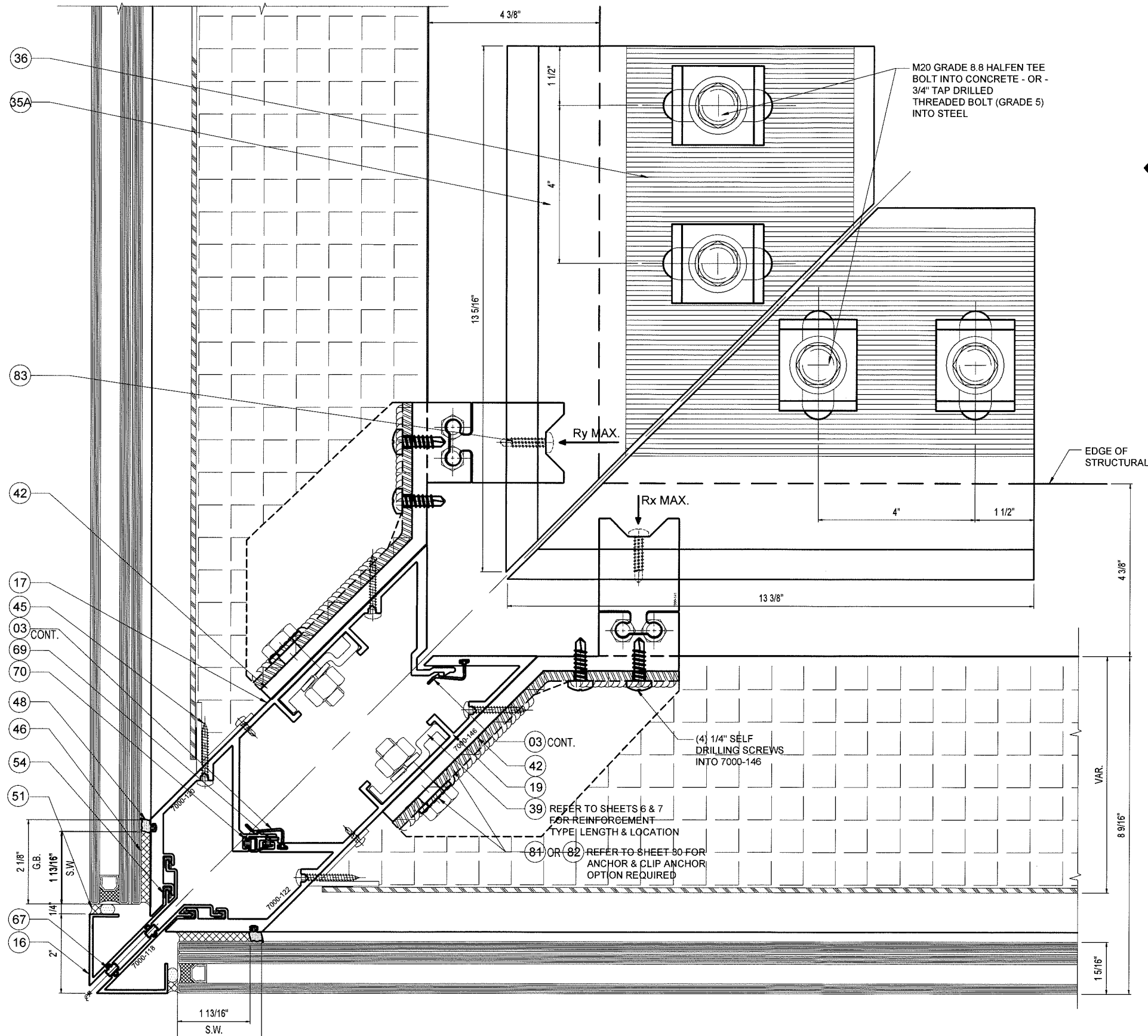
R5 - STEEL ANCHOR CLIP DETAIL
FRONT VIEW

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0403.08
Expiration Date June 6, 2023
By *Manuel Perez*
Miami Dade Product Control

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55933
C.A.N. 28677
No 55933
Yiping Wang
STATE OF FLORIDA

MIAMI DADE COUNTY

MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. SUITE 205A MIAMI, FL 33183 P: 305.271.0117 F: 305.921.4786 www.MCYEngineering.com MCY.Engineering@Att.net		TECNOGLASS, LLC. 3550 NW 49th Street, MIAMI, FL 33142 Phone (305) 342-0890 Fax (786) 513-3965	
REVISIONS NO DATE DESCRIPTION A 6/4/15 UPDATE TO 2014 FBC B 7/30/18 UPDATE TO 2017 FBC		SERIES 7000 ALUMINUM CURTAIN WALL - SMI	
DATE 07/08/2016 SCALE AS NOTED DRAWN A.R. PROJECT MCY15-088		DRAWING NO. AD12-65	
SHEET 30 OF 38			



35
32 TYPE E

36
33 TYPE F

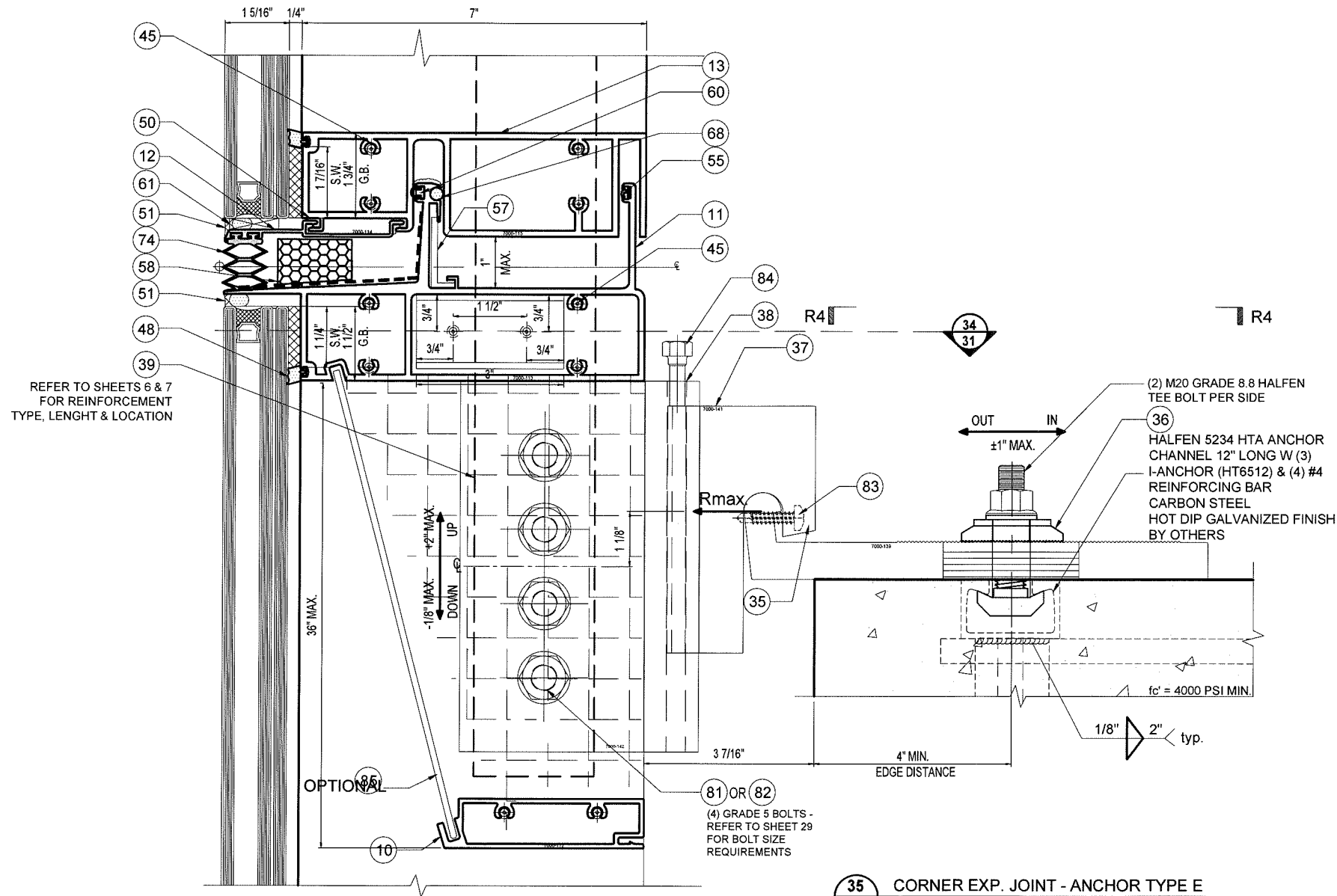
34
31 OUTSIDE CORNER MULL.
ANCHOR TYPE E OR F

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0403-08
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By *Manuel Feres*
Miami Dade Product Control

MIAMI DADE COUNTY		YIPING WANG, P.E. FLORIDA REGISTRATION PE #55983 C.A.N. 28677 JUL 17 2018		DATE 07/08/2016
		SCALE AS NOTED		
		DRAWN A.R.		
		PROJECT MCY15-088		
		DRAWING NO. AD12-65		
		SHEET 31 OF 38		

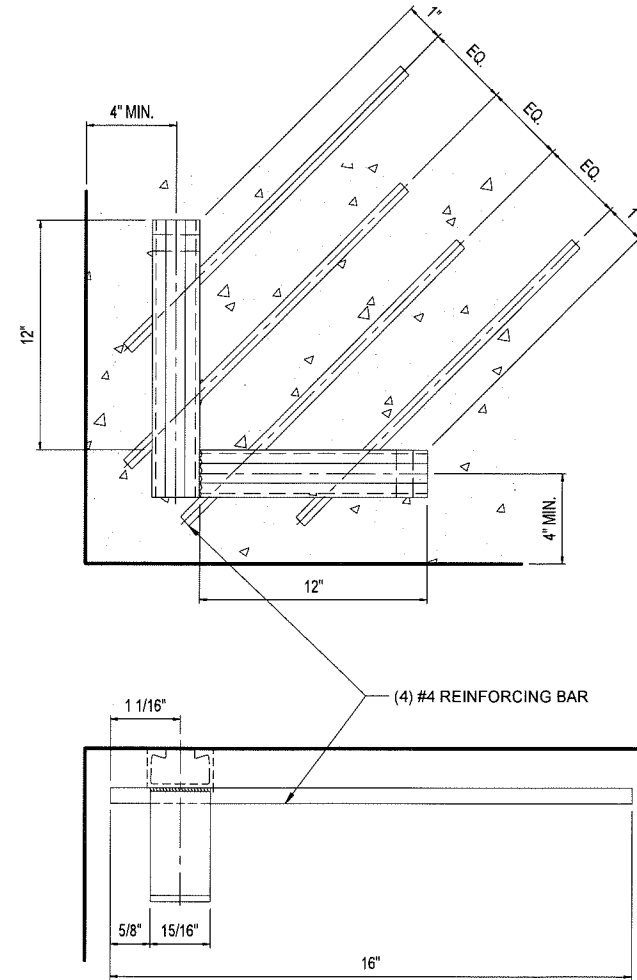
MCY ENGINEERING, INC. GLAZING CONSULTANTS		REVISES	
8501 SW 124 AVE. SUITE 205A MIAMI, FL 33183		NO DATE DESCRIPTION	
www.MCYEngineering.com		A/E/4/15 UPDATE TO 2014 FBC	
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI	
TECNOGLASS, LLC.	
3550 NW 49th Street, MIAMI, FL 33142	
Phone (305) 342-0890 Fax (786) 513-3965	



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

35 CORNER EXP. JOINT - ANCHOR TYPE E
32 SECTION



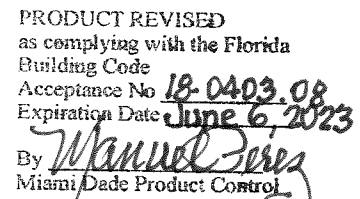
R4 ANCHOR TYPE E

PRODUCT REVISED
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Expiration Date **June 6, 2023**
By **Manuel Perez**
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
MAY 17 2018

MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. SUITE 205A MIAMI, FL 33183 P: 305.271.0117 F: 305.921.4786 www.MCYEngineering.com MCY.Engineering@Att.net		TECNOGLASS, LLC. 3550 NW 49th Street, MIAMI, FL 33142 Phone (305) 342-0890 Fax (786) 513-3965	
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DRAWING NO. AD12-65		SHEET 32 OF 38	



SHEET 33 OF 38

REVISIONS	
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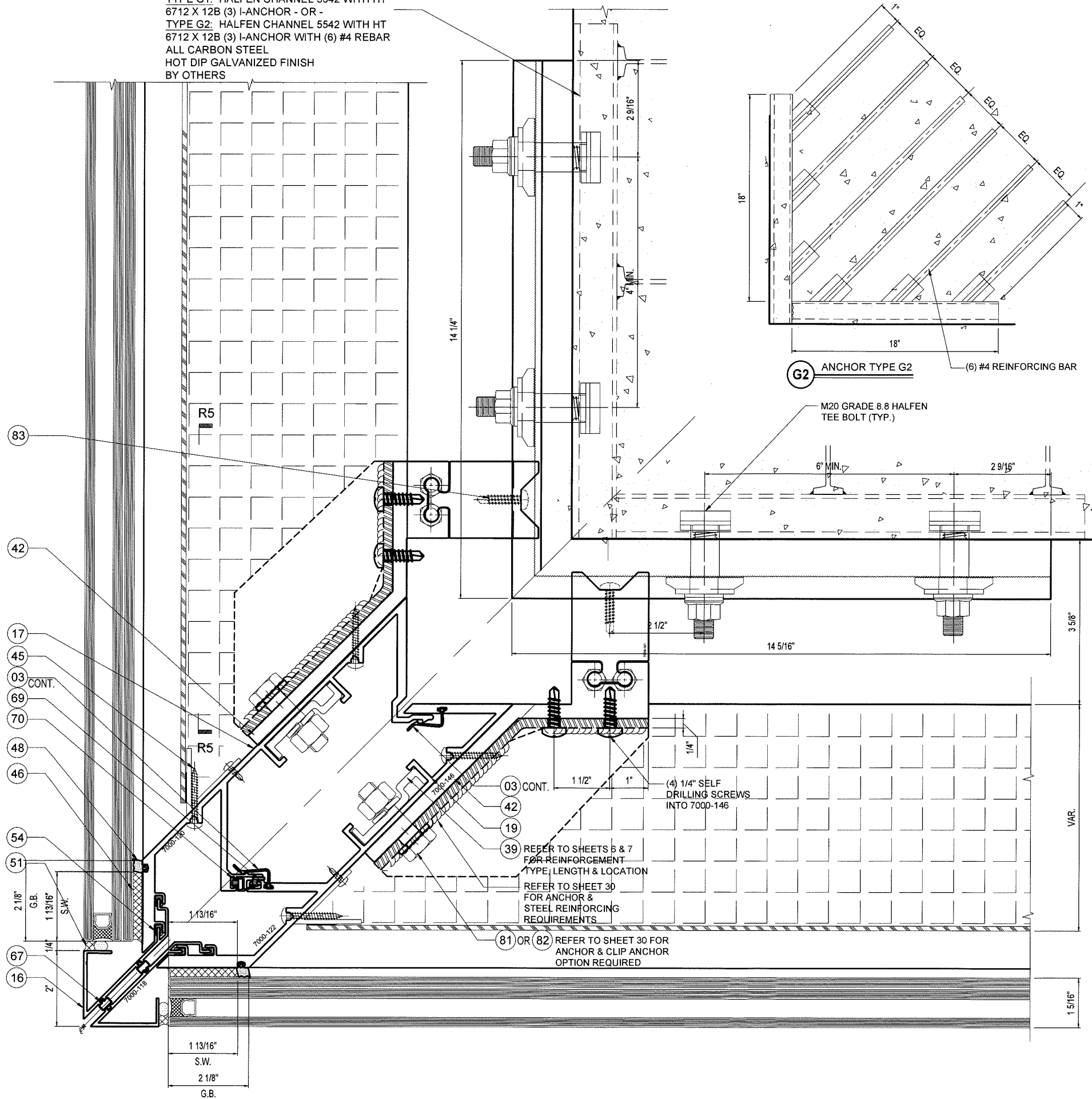
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SERIES 7000 ALUMINUM CURTAIN WALL - SMI

TECNOGLASS, LLC.



—(6) #4 REINFORCING BAR

6" MIN. $2 \frac{9}{16}"$

—(3) 1 ANCHORS

TYPE G1, G2

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By Manuel Jerez
Miami Dade Product Control

OUTSIDE CORNER MULL.
ANCHOR TYPE G1, G2

37
34

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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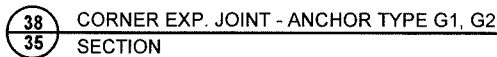
DATE	07/08/2016
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PROJECT	MCY15-088

DRAWING NO.	
AD12-65	

SHEET 34 OF 38	
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YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

MIAMI DADE COUNTY



PRODUCT REVISED
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Miami Dade Product Control

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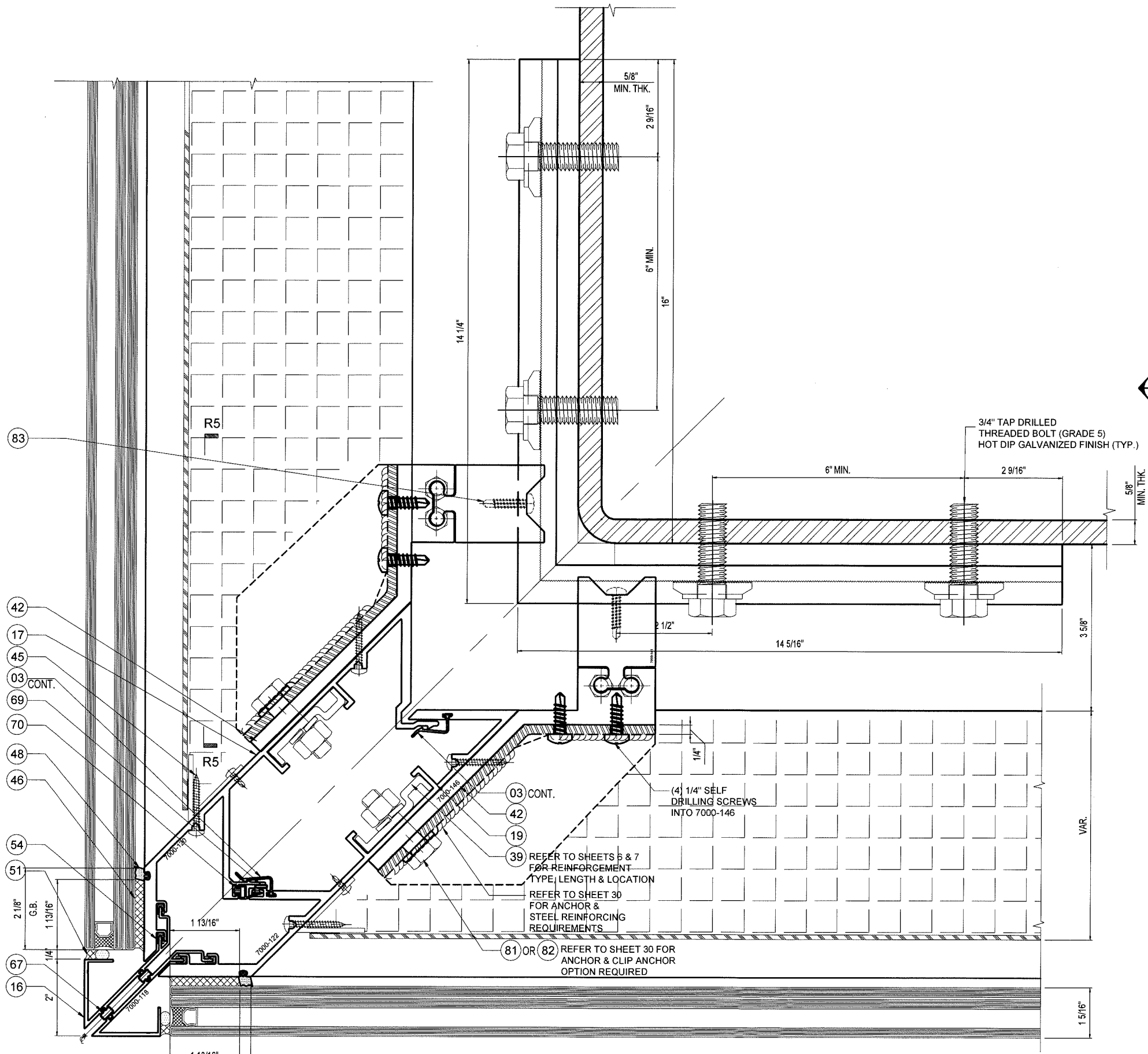
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SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY15-088

DRAWING NO.	
AD12-65	

SHEET 35	OF 38
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40
37
TYPE H

39
36
OUTSIDE CORNER MULL.
ANCHOR TYPE H

PRODUCT REVISED
as complying with the Florida
Building Code
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Expiration Date June 6, 2023
By Manuel Perez
Miami Dade Product Control

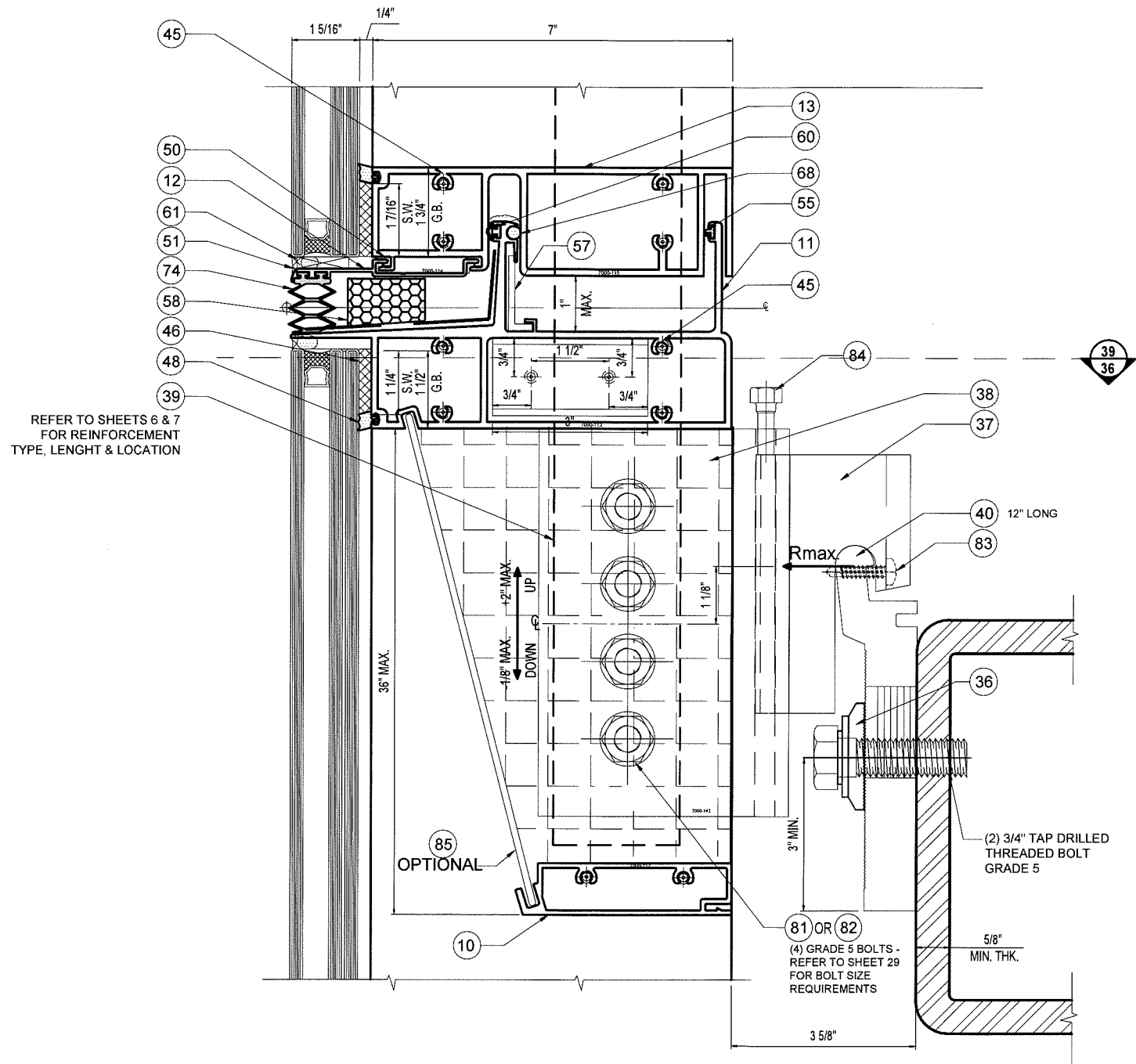
MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
No 55983
FLORIDA
STATE OF

DATE 07/08/2016
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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.
3550 NW 49th Street, MIAMI, FL 33142
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TYPE, LENGHT & LOCATION

40
37 CORNER EXP. JOINT - ANCHOR TYPE H
SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
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By Manuel Fern
Miami Dade Product Control

MIAMI DADE COUNTY

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AD12-65

SHEET 37 OF 38

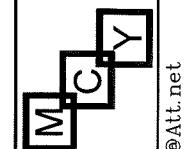
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NO.	DATE	DESCRIPTION
A	6/4/15	UPDATE TO 2014 FBC
B	8/30/16	UPDATE TO 2017 FBC
C		
D		



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						
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 1 1/2" 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						

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Building Code
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By *Manuel Perez*
Miami Dade Product Control

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FLORIDA REGISTRATION
PE #55983
N.C.A.N. 28677
MAY 17 2018

MIAMI DADE COUNTY

DATE 07/08/2016
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