



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

BES Associates, Corp.
12900 NW 38th Avenue
Opa Locka, FL 33054

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 "CW-40 Structural Glazed" Aluminum Curtain Wall System – S.M.I.

APPROVAL DOCUMENT: Drawing No. **CH.001**, titled "Series CW-40 Aluminum Curtain Wall System – Small Missile Impact (S.M.I.)", sheets 1 through 24 of 24, dated 10/30/23, with revision #1 dated 12/18/23, prepared by PCE Design, LLC, Consulting & Engineering, signed and sealed by Cesar I. Soto, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval 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, city, state, model/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.

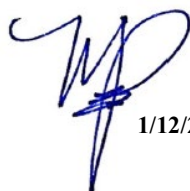
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate 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 consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**




1/12/24

NOA No. 23-1108.04
Expiration Date: January 18, 2029
Approval Date: January 18, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **CH.001**, titled "Series CW-40 Aluminum Curtain Wall System – S.M.I.", sheets 1 through 24 of 24, dated 10/30/23, with revision #1 dated 12/18/23, prepared by PCE Design, LLC, Consulting & Engineering signed and sealed by Cesar I. Soto, 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) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series CW-40 aluminum curtain wall system, prepared by Construction Research Laboratory, Inc., Test Reports No. **CRL-7568-22 BES MDCH SM I&C**, dated 10/01/23 and **CRL-7568-22 BES MDCH**, dated 10/04/23, both signed and sealed by Yamil G. Kuri, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis complying with FBC 7th Edition (2020) and with FBC 8th Edition (2023), dated October 30, 2023, and revised on December 18, 2023, issued by Paramount Consulting & Engineering., signed and sealed by Cesar I. Soto, P.E.
2. Glazing complies with **ASTM E 1300-09/12/16**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **23-0717.28** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 08/24/23, expiring on 07/08/24.
2. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their "SentryGlas® (Clear and White) Glass Interlayers" dated 08/31/23, expiring on 07/04/28.


Manuel Pérez, P.E.
Product Control Examiner
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F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)** and with **FBC 8th Edition (2023)**, dated December 5, 2023, issued by Paramount Consulting & Engineering, signed and sealed by Cesar I. Soto, P.E.
2. Statement letter of no financial interest, dated December 5, 2023, issued by Paramount Consulting & Engineering, signed and sealed by Cesar I. Soto, P.E.

G. OTHERS

1. None.


Manuel Pérez, P.E.
Product Control Examiner
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PCE DESIGN, LLC.
CONSULTING & ENGINEERING

**6135 NW 167th St. STE E-1
Miami Gardens, FL 33015
Ph. (305) 698-0550**

SERIES CW-40
ALUM. CURTAIN WALL SYSTEM
SMALL MISSILE IMPACT (S.M.I.)

BUILDING ENVELOPE SYSTEMS

**12900 NW 38th Ave.
Opa-Locka, FL 33054**

Ph. (305) 693-0683

DWG. # CH.001

REVISIONS:

No.	Date:	By:	Description
1	12/18/23	R.P.	General Rev.

DATE: **October 30th, 2023**

DRAWN BY RC	SCALE 6" = 1'-0"
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SHEET:	SHEET No.
1 of 24	PO.03.01

Building Envelope Systems

12900 NW 38th AVE, Opa-locka, FL 33054

SHEET NO.	DESCRIPTION	ISSUE DATE
PO.03.01	COVER SHEET/ INDEX	10/30/2023
PO.04	GENERAL NOTES/ ELEVATION	10/30/2023
PO.04A	GLAZING DETAILS	10/30/2023
P4.01	HORIZONTAL DETAIL @ JAMB	10/30/2023
P4.02	HORIZONTAL DETAIL @ MULLION	10/30/2023
P4.03	HORIZONTAL DETAIL (90° OUTSIDE CORNER)	10/30/2023
P4.04	HORIZONTAL DETAIL MULLION	10/30/2023
P4.05	HORIZONTAL DETAIL (MULLION JAMB ANCHOR @ SILL)	10/30/2023
P4.06	HORIZONTAL DETAIL (MULLION INTERM. ANCHOR @ SILL)	10/30/2023
P4.07	HORIZONTAL DETAIL (MULLION ANCHOR 90° OUTSIDE CORNER)	10/30/2023
P4.08	HORIZONTAL DETAIL (MULLION JAMB ANCHOR @ SILL)	10/30/2023
P5.01	VERTICAL DETAIL (HEAD)	10/30/2023
P5.02	VERTICAL DETAIL (INTERM. HORIZ.)	10/30/2023
P5.02A	VERTICAL DETAIL (INTERM. HORIZ.)	10/30/2023
P5.03	VERTICAL DETAIL (STACK JOINT)	10/30/2023
P5.05	VERTICAL DETAIL (STARTER SILL)	10/30/2023

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PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. 23-1108.04
Approval Date: 01/12/2024
By: Manuel Perez
Miami-Dade Product Control

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT
SHUTTERS ARE NOT REQUIRED

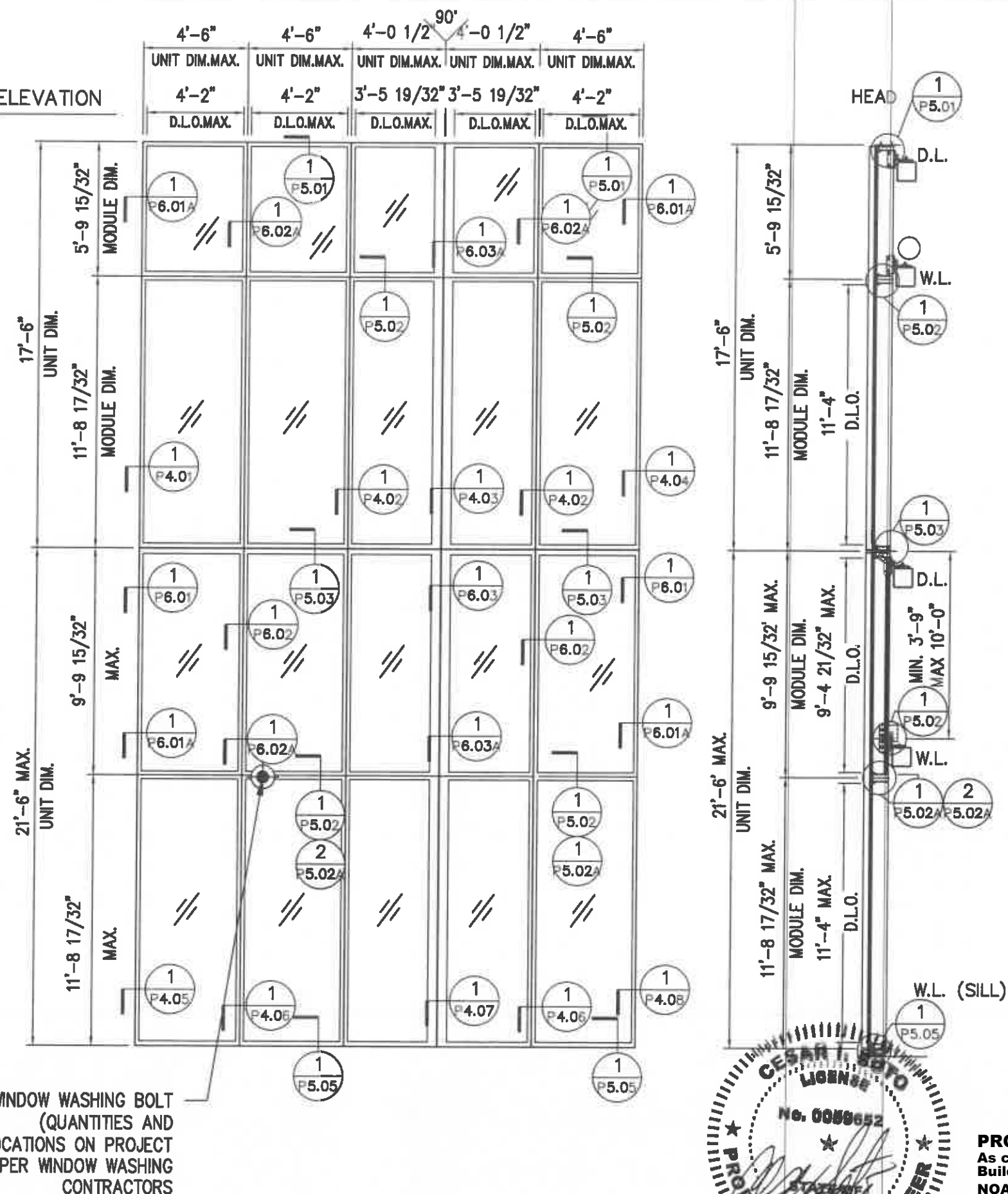
- THIS SYSTEM HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE 7TH EDITION (FBC 2020) & 8TH EDITION (2023) REQUIREMENTS, INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ)
- ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- ALL MATERIALS THAT COME INTO CONTACT WITH ANY MATERIAL THAT ARE NOT THE SAME INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) AND 8TH EDITION (2023) SECTION AS APPLICABLE.
- ALL METAL STRUCTURES SHALL BE DESIGNED BY OTHERS TO SUPPORT THE SUPERIMPOSED LOADS IMPOSED BY THIS GLAZING SYSTEM AND THEN TO TRANSFER SUCH LOADS TO THE PRIMARY BUILDING STRUCTURE.
- ULTIMATE LOAD OBTAIN FROM ASCE 7-16/22, THEN MULTIPLY BY 0.8 TO ACQUIRE DESIGNED LOADS WHICH NEED TO BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD STATED IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGNED LOADS.
- ANY SPECIFIC CONDITIONS NOT SHOWN IN THIS DRAWINGS SHALL BE ANALYZED SEPARATELY, AND REVIEWED BY THE BUILDING OFFICIAL AS PER THE SPECIFIC CONDITION/PROJECT.
- ALL ANCHORS SHALL BE INSTALLED AS SHOWN ON THE ELEVATION AND DETAILS, WHICH INCLUDE: ANCHOR SPACING, ANCHOR EMBEDMENT, ANCHOR EDGE DISTANCE, SUBSTRATE.
- ALL ANCHORS SHALL BE CORROSION RESISTANT.
- ALL SYSTEM SHALL BE TESTED AND LABELED IN ACCORDANCE OF SECTION 1709.5.1 OF THE FBC 2020 7TH EDITION/2023 8TH EDITION. ALL LABELS SHOULD BE VISIBLE AND MUST STAY ON SYSTEM UNTIL FINAL APPROVAL BY THE BUILDING OFFICIAL.
- APPROVED DESIGNED LOADS AS PER THE CALCULATIONS AND ALL REQUIRED TESTS ARE SHOWN IN TABLE ON SHEET 2.
- THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT, WHICH MEANS THAT NO SHUTTERS ARE REQUIRED FOR INSTALLATIONS ABOVE 30 FT ABOVE GRADE.
- ALL INSTALLATIONS BELOW 30 FT MUST BE PROTECTED WITH AN APPROVED LARGE MISSILE IMPACT PROTECTION SYSTEM.

MAXIMUM DESIGN WIND LOAD	
EXT. (+PSF)	EXT. (-PSF)
126	221.0

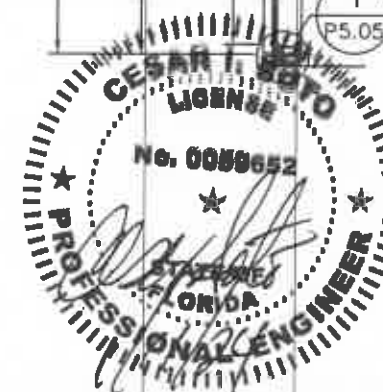
GLAZING DETAILS

**SEE GLAZING DETAILS
ON NEXT PAGE**

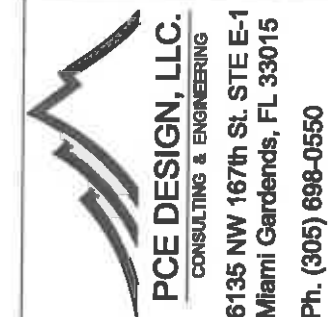
TYPICAL ELEVATION



WINDOW WASHING BOLT
(QUANTITIES AND
LOCATIONS ON PROJECT
PER WINDOW WASHING
CONTRACTORS



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SERIES CW-40
ALUM. CURTAIN WALL SYSTEM
SMALL MISSILE IMPACT (S.M.I.)

BUILDING ENVELOPE SYSTEMS

12900 NW 38th Ave.
Opa-Locka, FL 33054

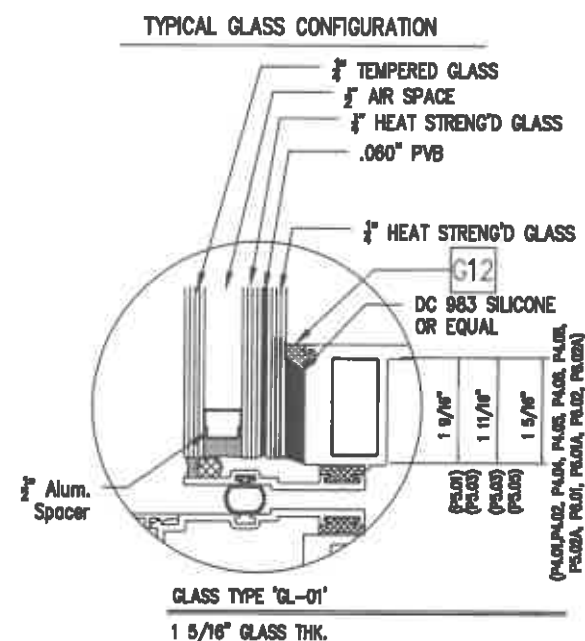
Ph. (305) 693-0683

DWG. # CH.001

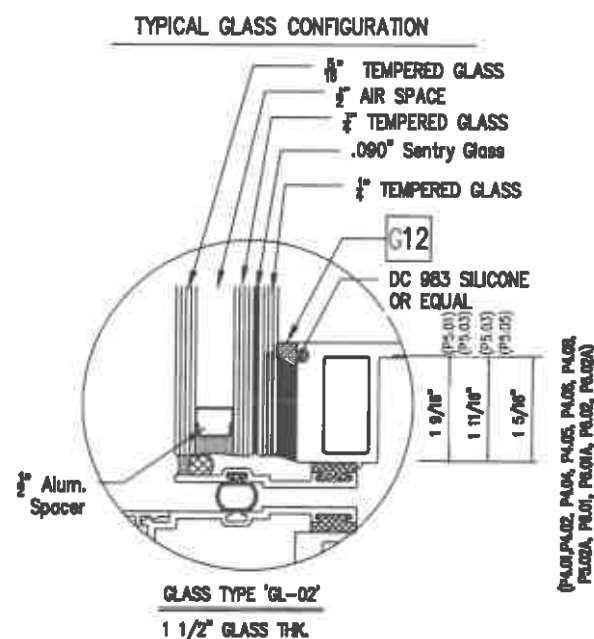
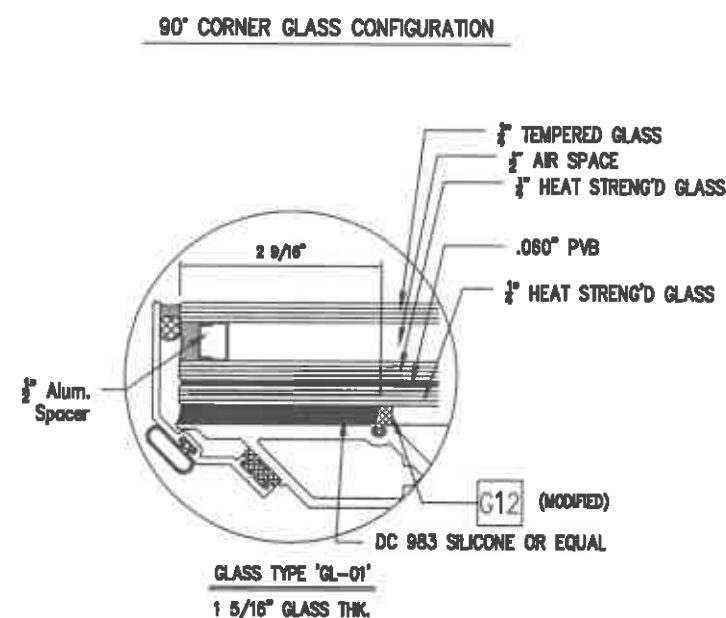
REVISIONS:			
No.	Date:	By:	Description
1	12/18/23	R.P.	General Rev.

DATE: October 30th, 2023	
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SHEET: 2 of 24	SHEET NO. P0.04

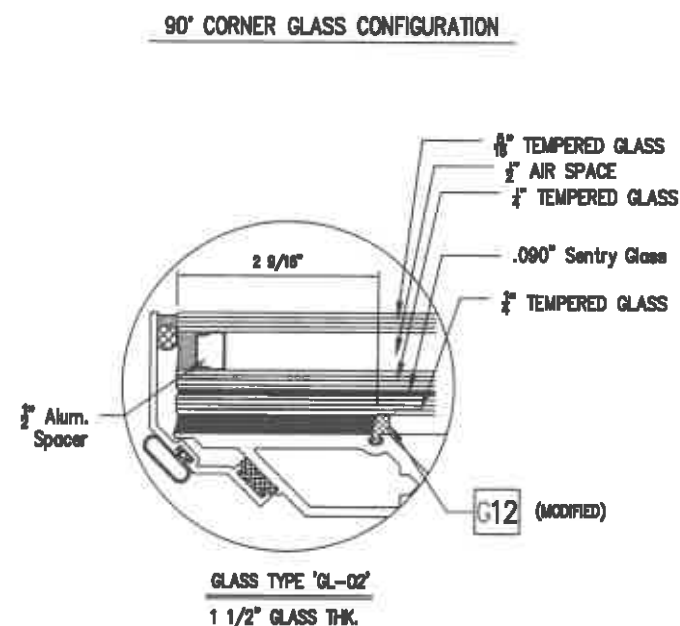
GLAZING DETAILS



NOTE: SPANDREL GLASS IS THE SAME
WITH A FRIT ON # 3 SURFACE



NOTE: SPANDREL GLASS IS THE SAME
WITH A FRIT ON # 3 SURFACE



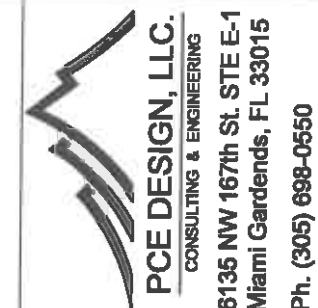
GLASS LOAD CAPACITY - PSF

NOMINAL DIMS		GLASS CONFIGURATION	
D.L.O—WIDTH	D.L.O—HEIGHT	GL—01	GL—02*
50"	136"	+126 PSF /-170 PSF	+126 PSF /-221 PSF
48"	114"	+126 PSF /-221 PSF	+126 PSF /-221 PSF

*GLASS TYPE WAS NOT TESTED FOR TAS 201-94 IMPACT, THIS WAS CALCULATED AS PER ASTM E1300-09 (3 SEC. GUSTS)

SILICONE LOAD CAPACITY - PSF

NOMINAL DIMS	GLASS CONFIGURATION	
	GL-01	GL-02*
SILICONE BITE (MIN)		
1-5/16	+126 PSF /-151.2 PSF	+126 PSF /-151.2 PSF
1-9/16	+126 PSF /-180 PSF	+126 PSF /-180 PSF
1-11/16	+126 PSF /-194.4 PSF	+126 PSF /-194.4 PSF
1-29/32"	+126 PSF /-221 PSF	+126 PSF /-221 PSF



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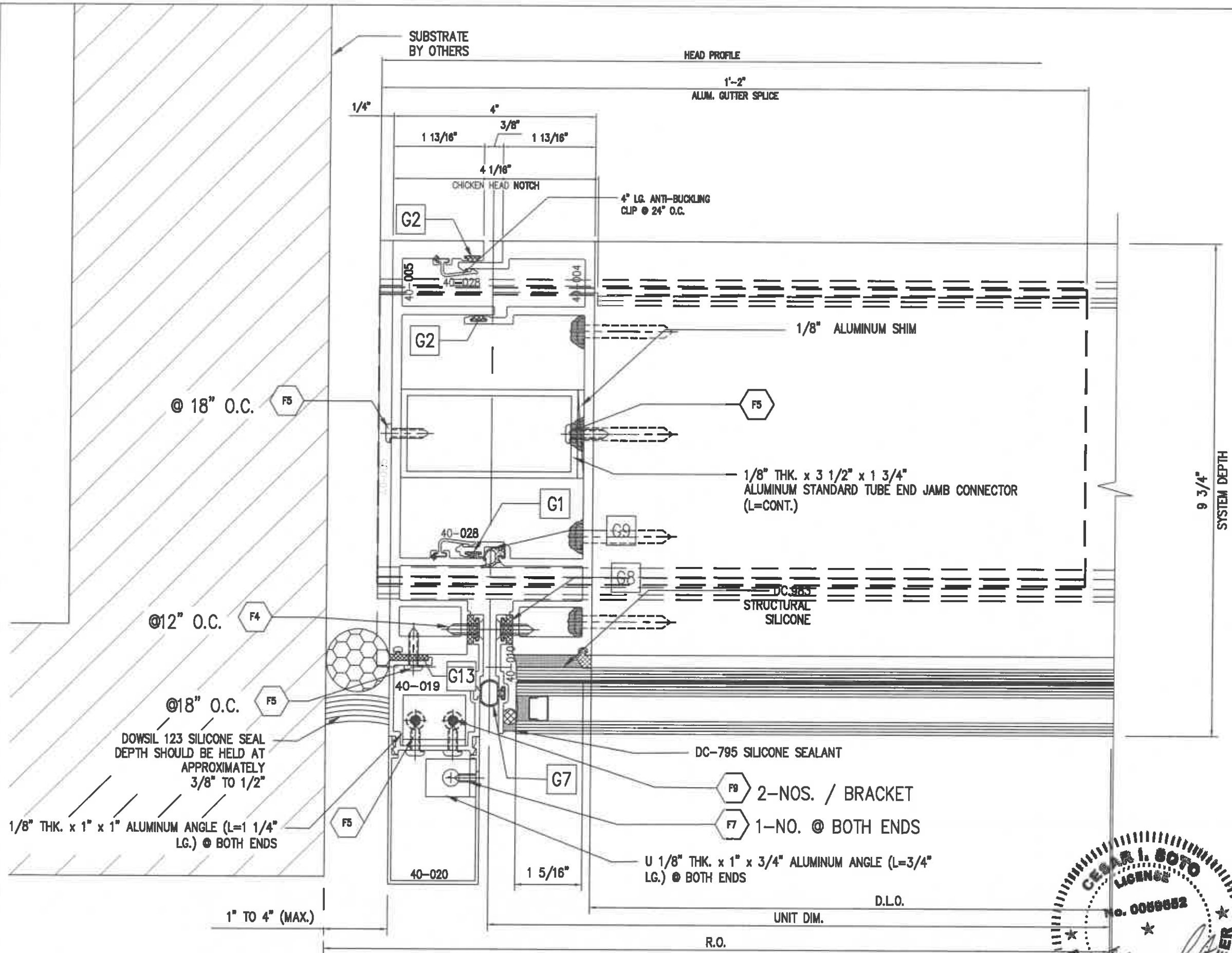
No.	Date:	By:	Description
1	12/18/23	R.P.	General Rev.

DATE: **October 30th, 2023**

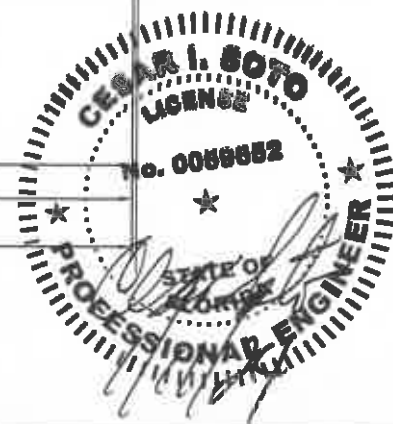
DRAWN BY RC	SCALE N.T.S.
SHEET: 3 of 24	SHEET NO. P0.04A

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. 23-1108.04
Approval Date: 01/12/2024
By: Manuel Perez
Miami-Dade Product Control





1 JAMB PLAN DETAIL - TYP.
P4.01 SCALE: 6"=1'-0" REF: NONE



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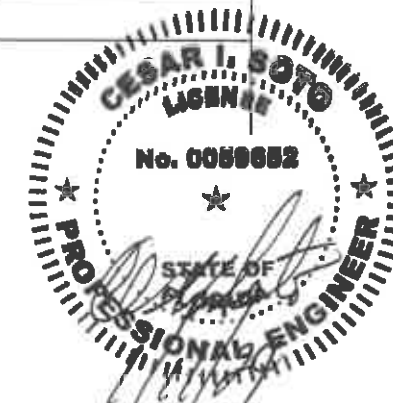
12900 NW 38th Ave.
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DWG. # CH.001

REVISIONS:

No.	Date:	By:	Description
1	12/18/23	R.P.	General Rev.

DATE:	October 30th, 2023
DRAWN BY	RC
SHEET	4 of 24
SCALE	6" = 1'-0"
SHEET NO.	P4.01



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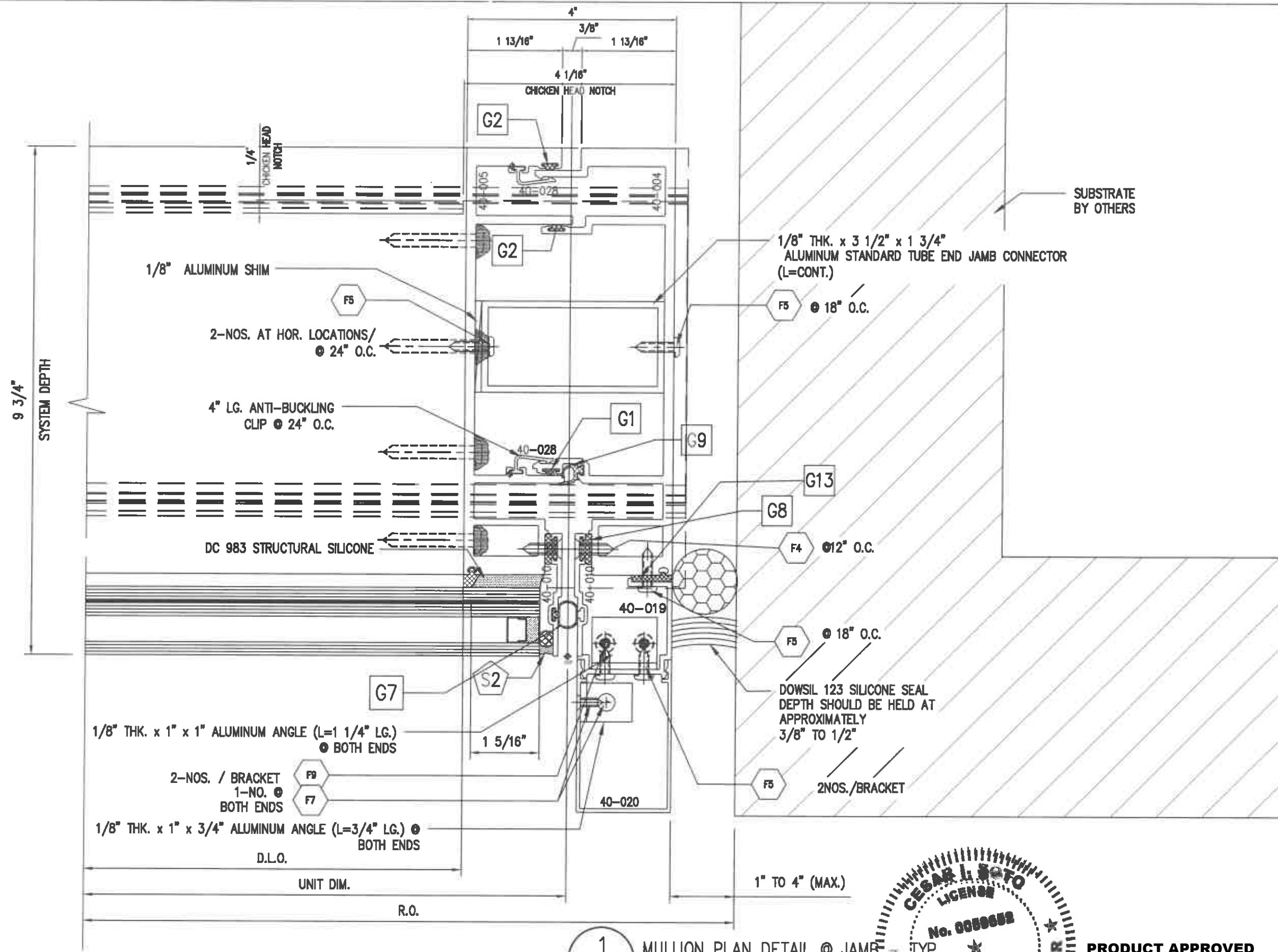
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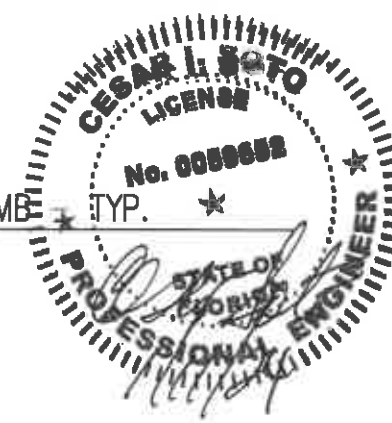
DWG. # CH.001

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No.	Date:	By:	Description
1	12/18/23	R.P.	General Rev.

DATE:	
October 30th, 2023	
DRAWN BY	SCALE
RC	6" = 1'-0"
SHEET:	SHEET NO
6 of 24	P4.03



1 MULLION PLAN DETAIL @ JAMB TYP.
P4.04 SCALE: 6"=1'-0" REF: NONE



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By: *Manuel Ferraz*
Miami-Dade Product Control

PCE DESIGN, LLC.
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6135 NW 167th St. STE E-1
Miami Gardens, FL 33015
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DRAWN BY RC		SCALE 6" = 1'-0"	
SHEET: 7 of 24		SHEET NO. P4.04	

SUBSTRATE
BY OTHERS

STARTER SILL

1'-2"
ALUM. GUTTER SPLICE

1/8" THK. x 3 1/2" x 1 3/4"
ALUMINUM STANDARD TUBE END JAMB
CONNECTOR (L=CONT.)

Ø 18" O.C.

G1

G8

Ø 12" O.C.

G13

Ø 18" O.C.

DOWSIL 123 SILICONE SEAL
DEPTH SHOULD BE HELD AT
APPROXIMATELY
3/8" TO 1/2"

1/8" THK. x 1" x 1" ALUMINUM ANGLE (L=1 1/4" LG.)
Ø BOTH ENDS

2NOS./BRACKET

1" to
4" MAX.

40-020

1 5/16"

1-NO. Ø
BOTH ENDS

DC.983
STRUCTURAL
SILICONE

DC-795 SILICONE SEALANT

8"
STEEL PLATE

2-NOS. / BRACKET

D.L.O.

UNIT DIM.

U 1/8" THK. x 1" x 3/4" ALUMINUM ANGLE (L=3/4" LG.) Ø
BOTH ENDS

CHICKEN HEAD NOTCH

1/4"

CHICKEN HEAD NOTCH

Ø 3" O.C.

2-NOS. AT HOR. LOCATION S/
SPANDREL - Ø 24" O.C.

4" LG. ANTI-BUCKLING
CLIP Ø 24" O.C.

1/4" THK. X 2" X 2 1/2" STEEL PLATE
WASHER WELDED TO STARTER STL
CHANNEL BELOW

1/2" THK. STEEL PLATE (GRADE
A36) WELDED TO TOP OF CHAMBERED
BEAM

9 3/4"
SYSTEM DEPTH

3" - 4 1/4"
3" - 4 1/4"

3"
FIN

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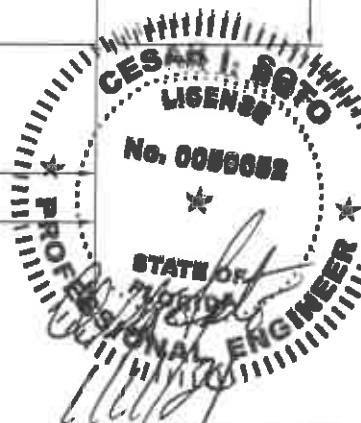
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By: Manuel Ferrer
Miami-Dade Product Control

DATE:	October 30th, 2023
DRAWN BY:	RC
SHEET:	8 of 24
SCALE:	6" = 1'-0"
SHEET NO.	P4.05

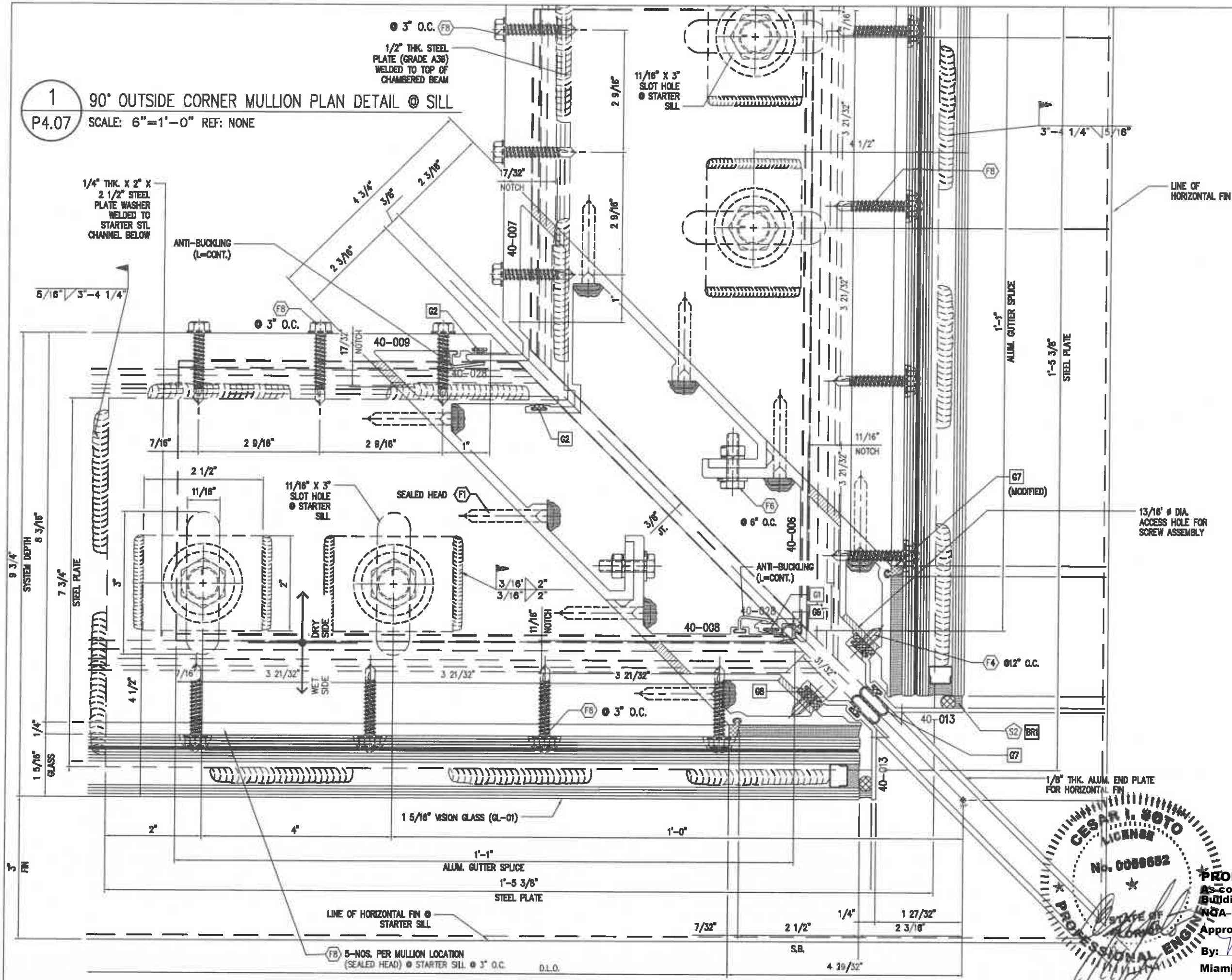
PCE DESIGN, LLC.
CONSULTING & ENGINEERING
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Miami Gardens, FL 33015
Ph. (305) 698-0550



1 MULLION ANCHOR PLAN DETAIL @ JAMB @ SILL
P4.05 SCALE: 6" = 1'-0" REF: NONE

1
P4.07

90° OUTSIDE CORNER MULLION PLAN DETAIL @ SILL
SCALE: 6"=1'-0" REF: NONE



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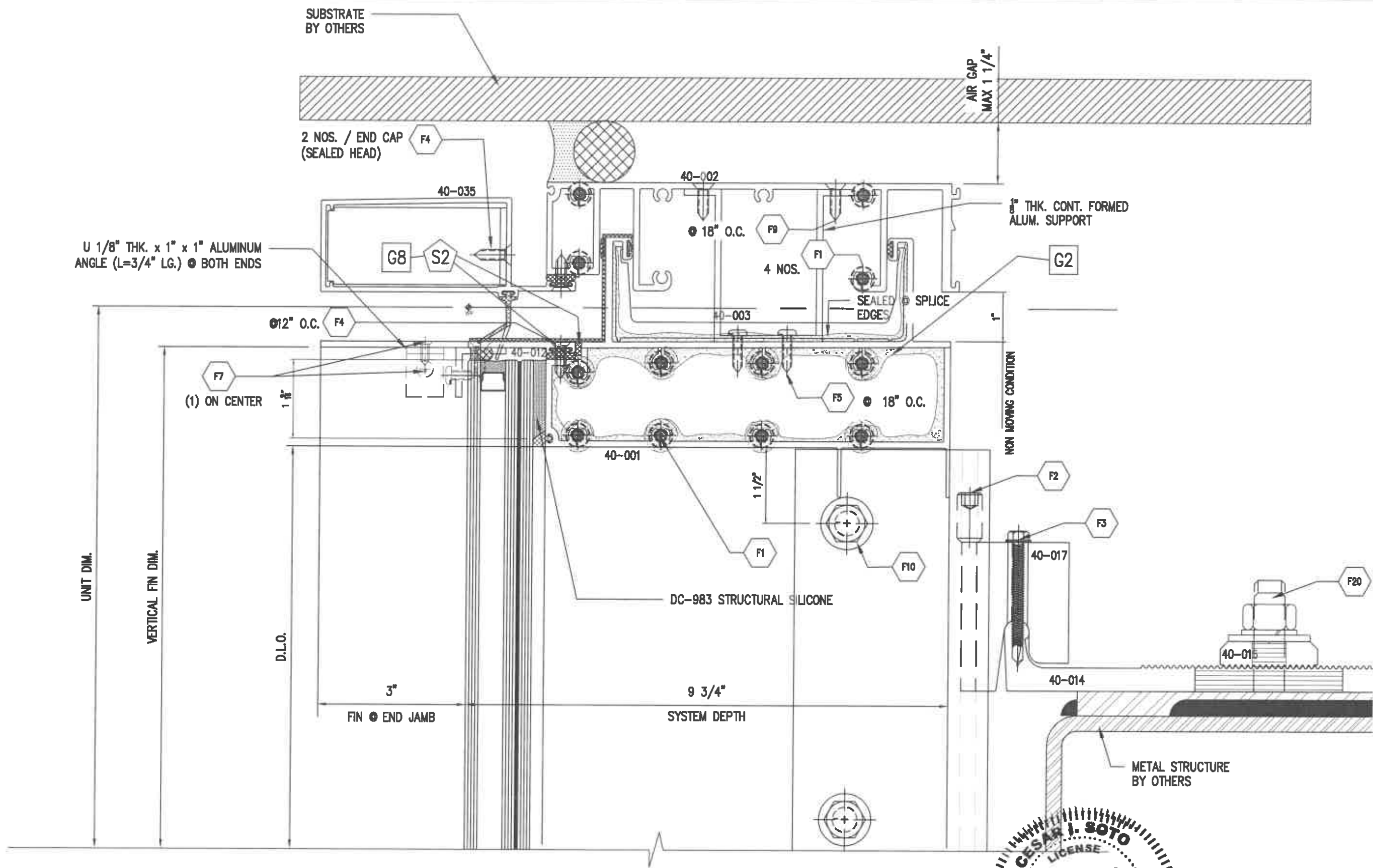
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DATE: October 30th, 2023	SCALE: 6" = 1'-0"
DRAWN BY RC	SHEET NO. P4.07
SHEET: 10 of 24	

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By: *Manuel Perez*
Miami-Dade Product Control

CESAR I. SOTO
LICENSED
No. 0059652
STATE OF FLORIDA
PROFESSIONAL ENGINEER



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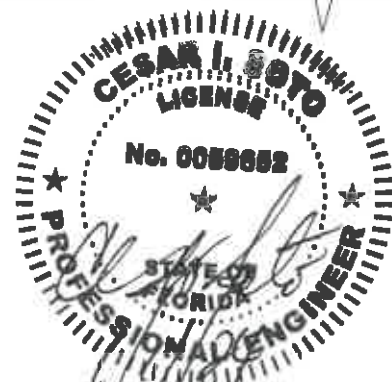
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SHEET: 12 of 24		SHEET NO. P5.01	

1 HEAD DETAIL - TYP.
P5.01 SCALE: 6"=1'-0" REF: NONE DEAD LOAD



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Approval Date: 01/12/2024
By: *Manuel Perez*
Miami-Dade Product Control



DATE: October 30th, 2023	
DRAWN BY RC	SCALE 6" = 1'-0"
SHEET: 13 of 24	SHEET NO. P5.02

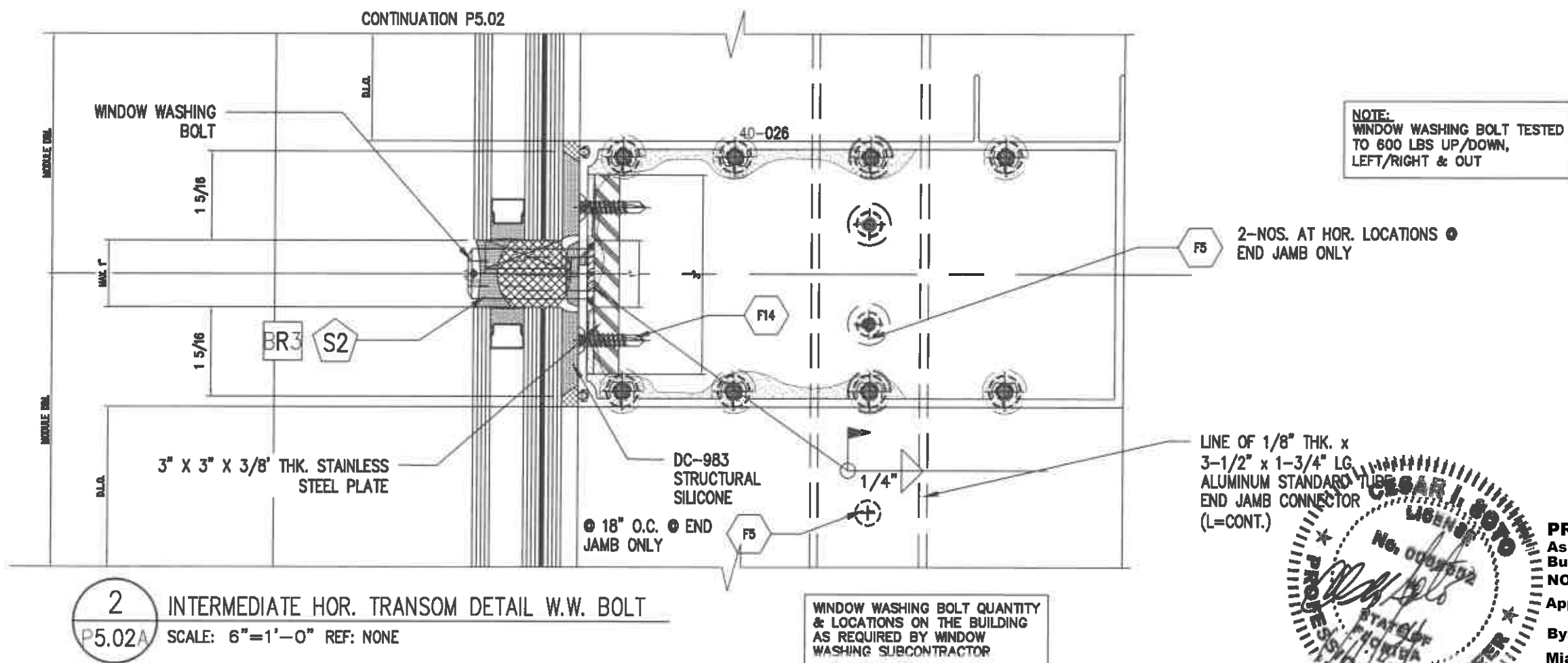
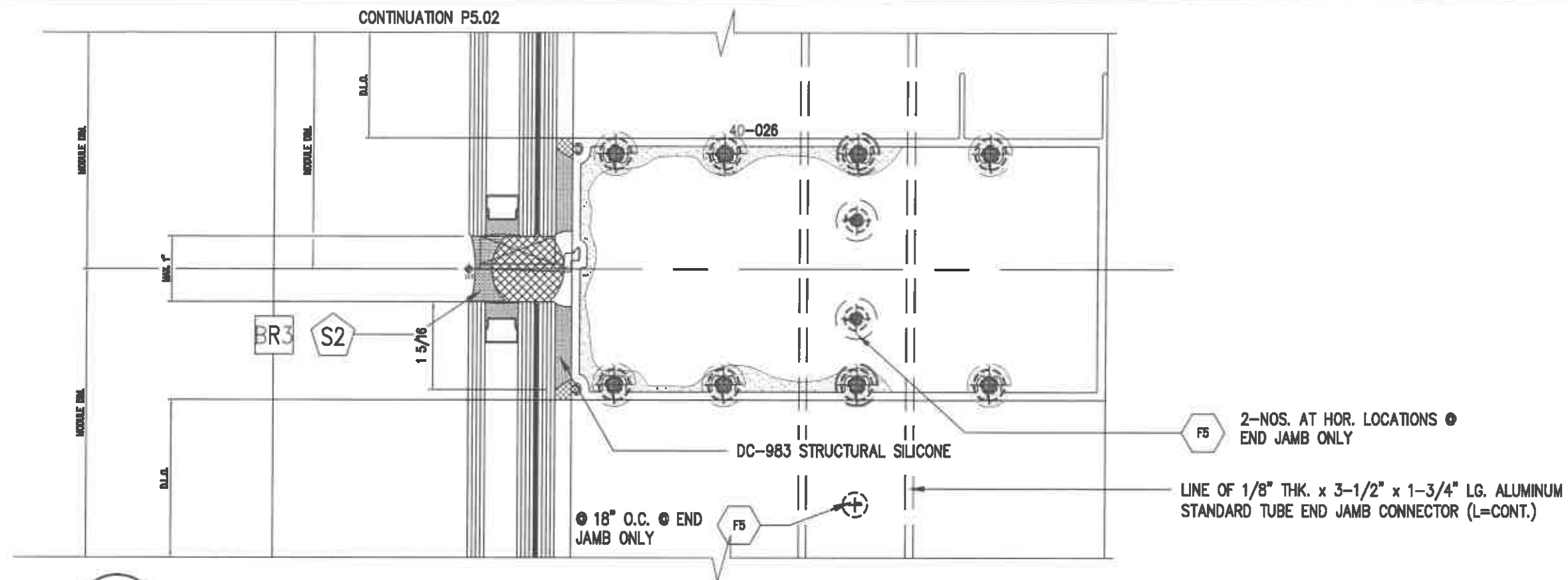
DWG. # CH.001

12900 NW 38th Ave.
Opa-Locka, FL 33054
Ph. (305) 693-0683

SERIES CW-40
ALUM. CURTAIN WALL SYSTEM
SMALL MISSILE IMPACT (S.M.I.)

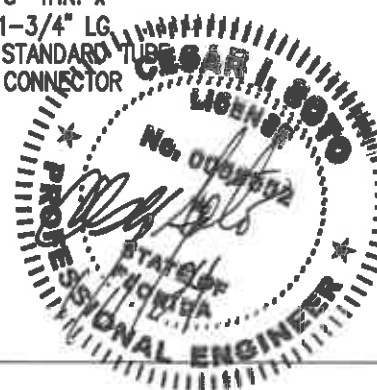


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NOTE:
WINDOW WASHING BOLT TESTED
TO 600 LBS UP/DOWN,
LEFT/RIGHT & OUT

LINE OF 1/8" THK. x
3-1/2" x 1-3/4" LG.
ALUMINUM STANDARD
END JAMB CONNECTOR
(L=CONT.)



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REVISIONS:

No.	Date:	By:	Description
1	12/18/23	R.P.	General Rev.

DATE: _____

October 30th, 2023

DRAWN BY	SCALE
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RC 6" = 1'-0"

SHEET:	SHEET NO.
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P5 02A

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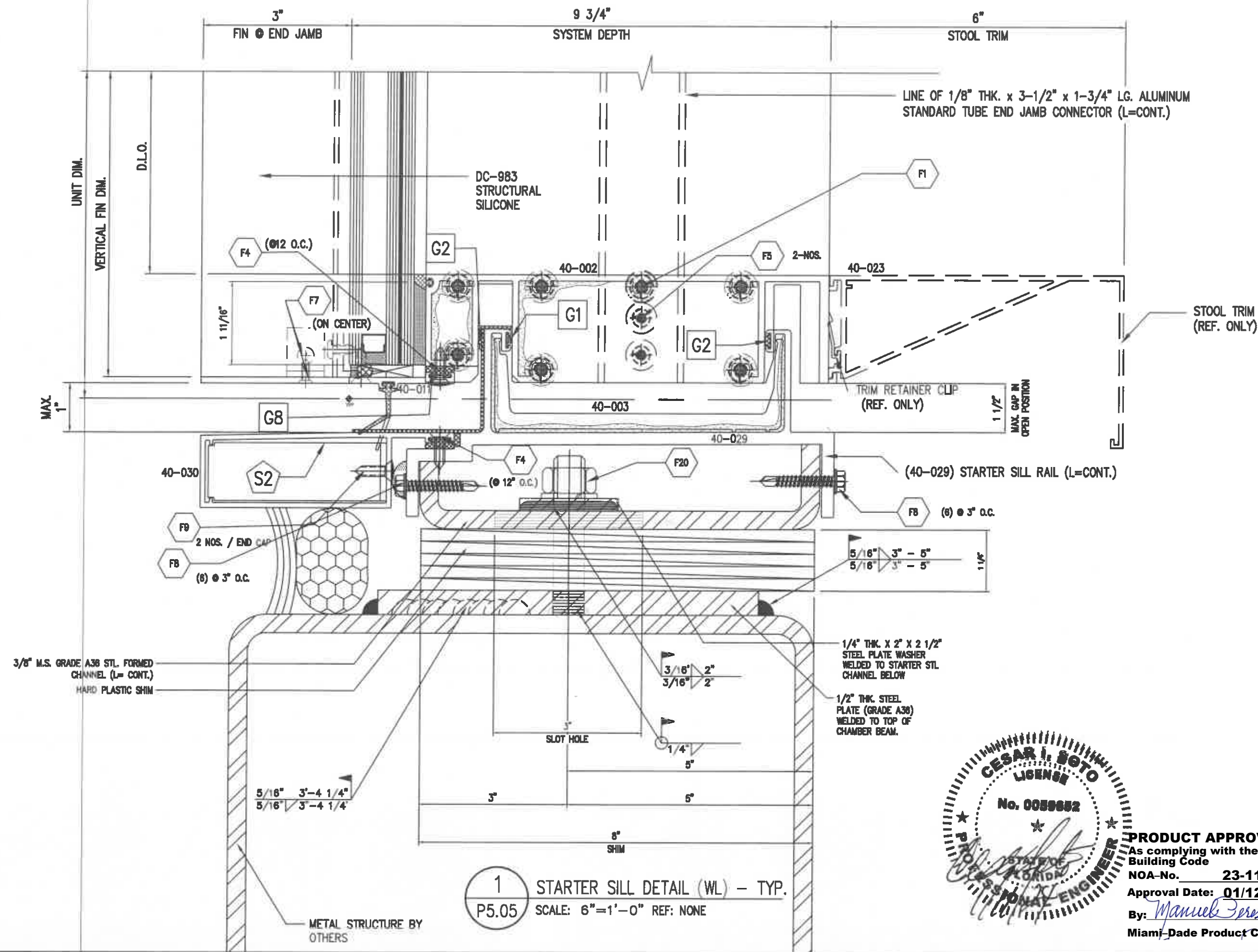
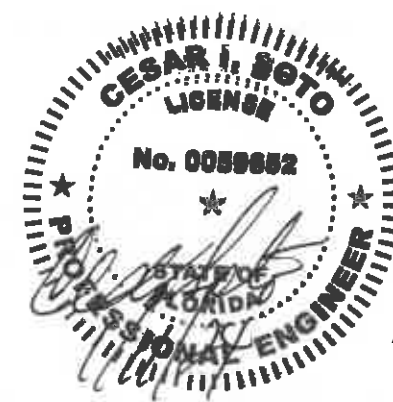
DWG. # CH.001

REVISIONS:

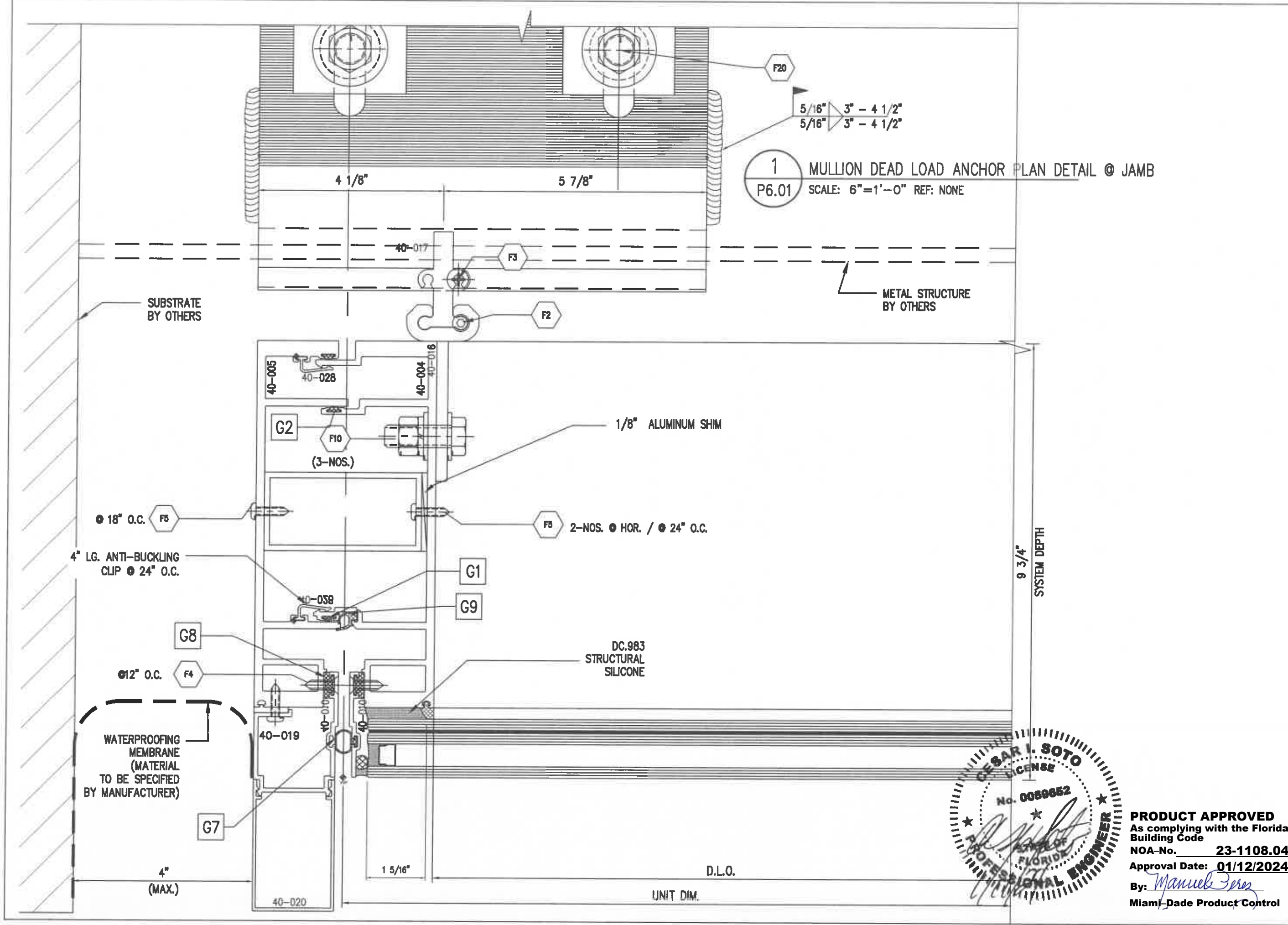
No.	Date:	By:	Description
1	12/18/23	R.P.	General Rev.

DATE:	October 30th, 2023
DRAWN BY:	RC
SHEET:	16 of 24
SCALE:	6" = 1'-0"
SHEET NO.:	P5.05

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1 STARTER SILL DETAIL (WL) - TYP.
P5.05 SCALE: 6"=1'-0" REF: NONE



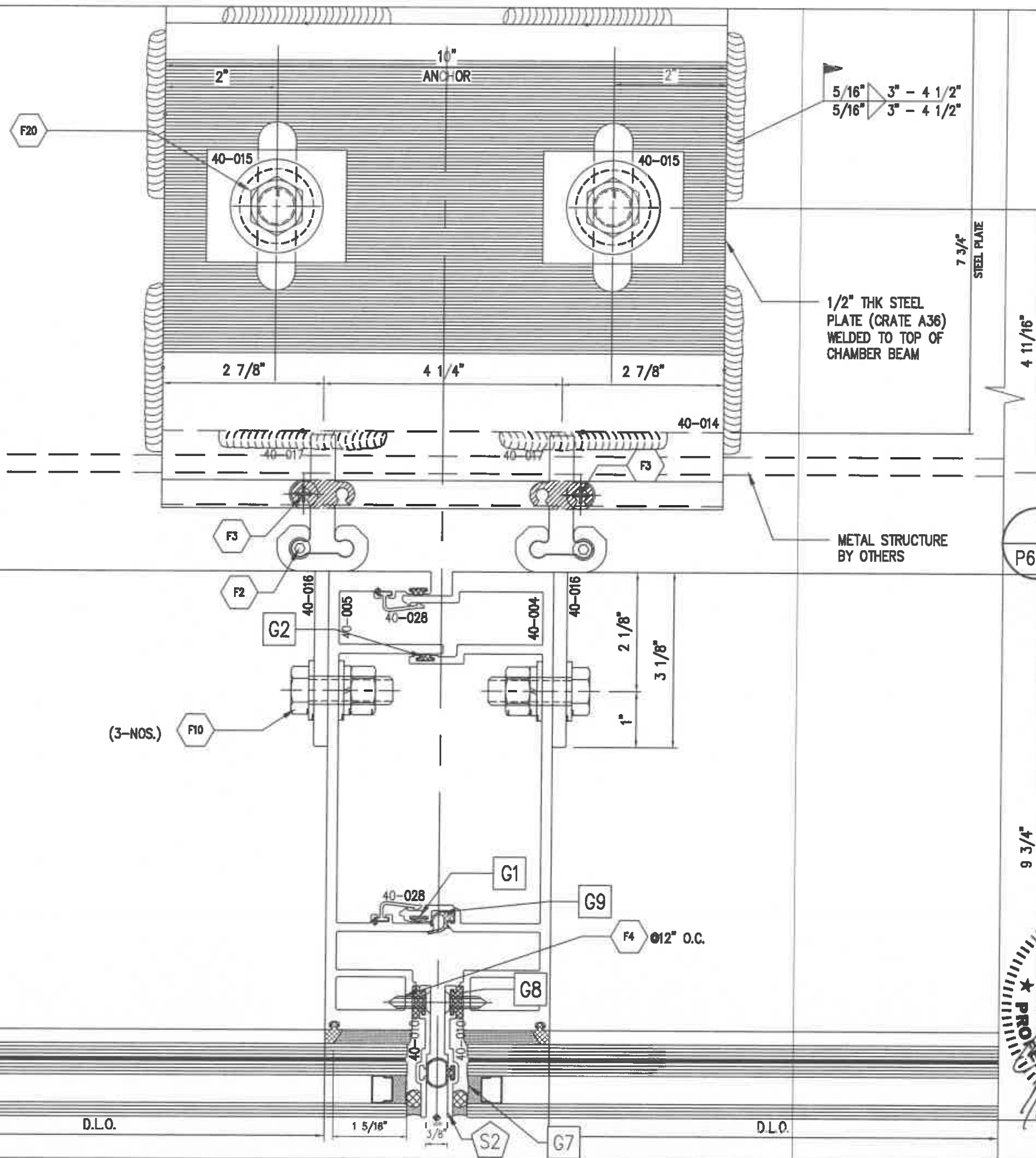
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DRAWN BY: RC			
SHEET: 17 of 24			
SCALE: 6" = 1'-0"			
SHEET NO. P6.01			

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1 MULLION DEAD LOAD ANCHOR PLAN DETAIL
P6.02 SCALE: 6"=1'-0" REF: NONE



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By: *Manuel Feroz*
Miami-Dade Product Control

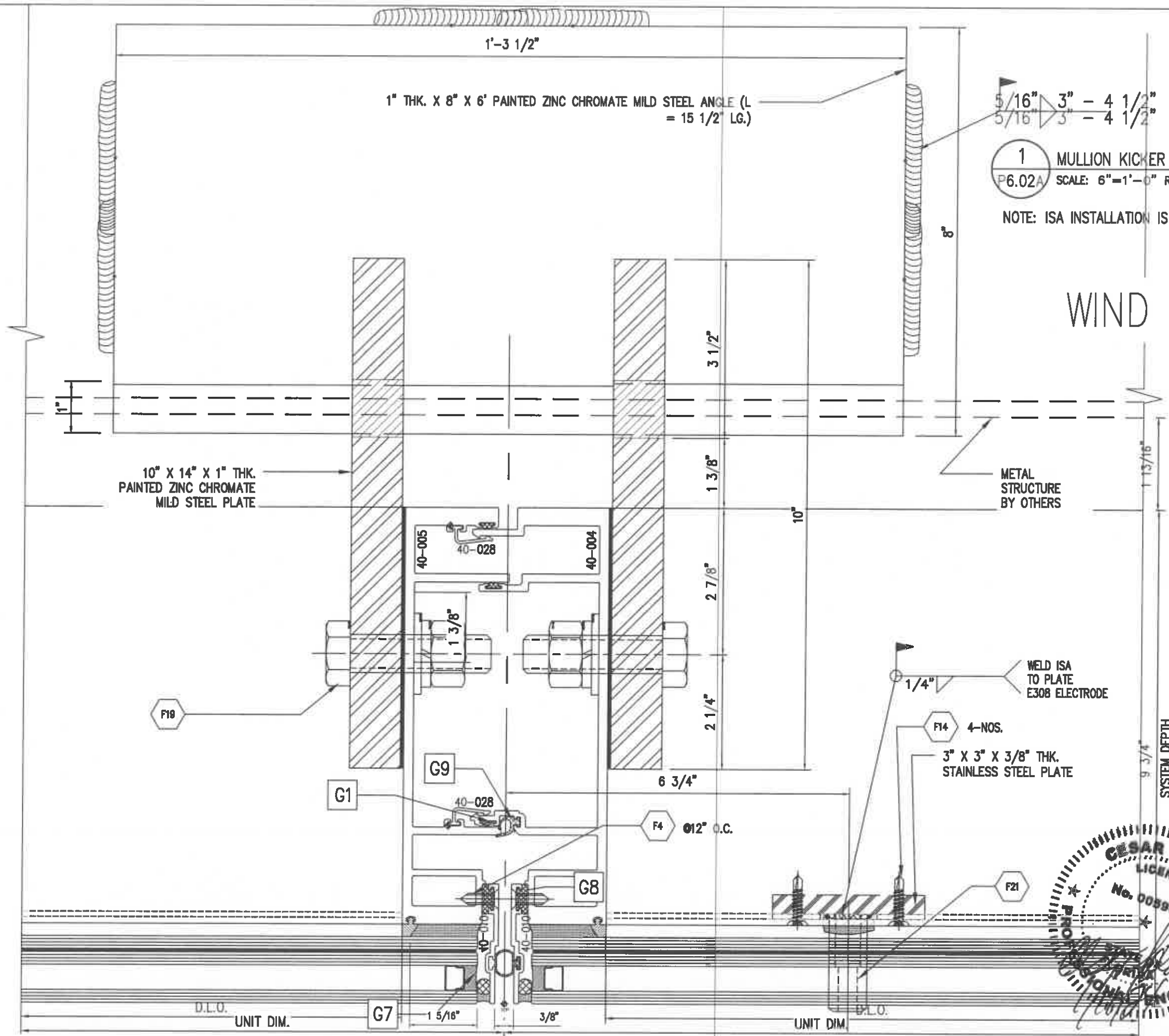
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SHEET: 18 of 24		SHEET NO. P6.02	



1 MULLION KICKER ANCHOR PLAN DETAIL
P6.02A SCALE: 6"=1'-0" REF: NONE
NOTE: ISA INSTALLATION IS OPTIONAL

WIND LOAD



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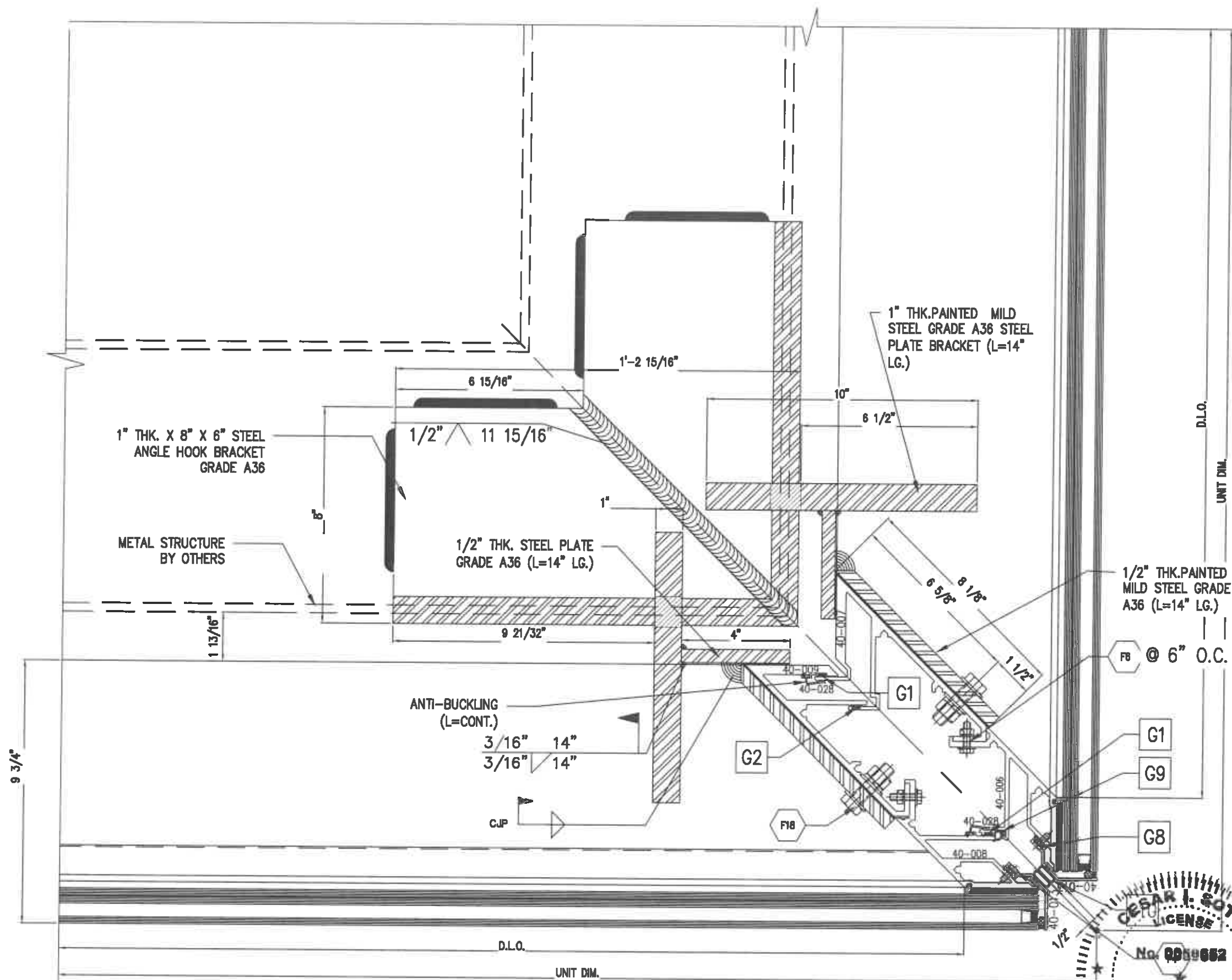
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SHEET: 20 of 24		SHEET NO. P6.02A	



1 90° OUTSIDE CORNER MULLION ANCHOR WIND LOAD PLAN DETAIL
 P6.03A SCALE: 3" = 1'-0" REF: NONE



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DRAWN BY: RC		SCALE: 3" = 1'-0"	
SHEET: 22 of 24		SHEET NO. P6.03A	

MISCELLANEOUS GENERAL INFORMATION SHEET

GASKET / PVC			
MARK		PICTURE N.T.S.	CODE
G1	AIR SEAL GASKET EPDM -70 +/- 5 DUROMETER - BLACK		3817-04-01 NSD-9340
G2	RIGID PVC COMPRESSION GASKET		4215-01-50
G4	PRESET GLAZING RAIN SCREEN GASKET BLACK SILICONE - 70 +/- 5 DUROMETER		NSD-9310
G7	BULB GASKET BLACK SILICONE		9873-02-01
G8	SPACER PVC		
G9	VERTICAL AIR SEAL GASKET		
G10	BULB GASKET BLACK SILICONE		
G12	SILICONE SPACER GASKET -70 +/- 5 DUROMETER - BLACK		

SEALANTS, TAPES & SETTING BLOCKS			
MARK		PICTURE N.T.S.	CODE
S1	DOWSIL 983, TWO PARTS STRUCTURAL SILICONE SEALANT		
S2	SILICONE WEATHER SEALANT DOWSIL 795 SILICONE SEALANT		
SB1	1 1/8" x 1/4" SILICONE SETTING BLOCK 6" LONG @ 1/4 PTS.		
SB2	1 1/8" x 7/16" SILICONE SETTING BLOCK 6" LONG @ 1/4 PTS.		
BR1	5/16" DIAMETER NON-GASSING CLOSED CELL BACKER ROD		
BR2			
BR3	1" DIAMETER NON-GASSING CLOSED CELL BACKER ROD		
TP1	1/16" THK. X 1 1/2" WIDE. SILICONE TAPE		

FASTENERS		
MARK	DESCRIPTION	PICTURE N.T.S.
F1	#14 X 1 3/4" LG. P/PH SMS TYPE AB 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F2	3/8- 16 x 3/4" LG. HEADLESS SOCKET SET SCREW 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F3	1/4-20 X 2 1/2" LG. HEX WASHER HEAD BI-FLEX W/ STALGARD FINISH 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F4	#12 X 3/4" LG. P/PH UNDERCUT SMS TYPE AB 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F5	#10 X 3/4" LG. P/PH SMS TYPE AB 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F6	1/4-20 X 1" HEX HEAD MACHINE BOLT W/ NUT, (1) FLAT WASHER, & (1) LOCK WASHER 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F7	#8 X 1 1/2" LG. P/PH UNDERCUT SMS TYPE AB 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F8	1/4-20 X 1 1/2" LG. HEX WASHER HEAD BI-FLEX W/ STALGARD FINISH 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F9	#12 X 3/4" LG. P/PH SMS TYPE AB 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F10	1/2-13 X 1 1/2" HEX HEAD MACHINE BOLT W/ NUT, (2) FLAT WASHER, & (1) LOCK WASHER 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F12	3/4" DIA. A448 MACHINE BOLT Fy = 92 KSI; Fu = 120 KSI	
F14	#12-24 X 1" LG. UNDERCUT BI-FLEX FLAT HEAD SCREWS 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	

FASTENERS		
MARK	DESCRIPTION	PICTURE N.T.S.
F15	1/4-20 X 1 3/4" LG. # 5 PT. HWH DRIL-FLEX fy= 92 KSI fu= 120 KSI (CARBON STEEL STALGARD FINISH)	
F16	1/2-13 X 1 3/4" HEX HEAD MACHINE BOLT W/ NUT, (2) FLAT WASHER, & (1) LOCK WASHER 300 SERIES ST STL (CW) fy= 85 KSI fu= 100 KSI	
F18	1/2" #-13 X 2 3/4" GRADE 5 HEX HEAD MACHINE BOLT W/ NUT & (1) FLAT WASHER, (1) LOCK WASHER fy= 92 KSI fu= 120 KSI	
F20	5/8" X 2 3/4" LG. ASTM F1554 GRADE 105 WELDABLE THREADED ROD & NUT W/ FLAT WASHER & LOCK WASHER Fy= 105 KSI; Fu = 125 KSI	
F21	3/4" # X 7/8" LG. STAINLESS STEEL ROD (ISA BUTTON) DRILED TO ACCEPT SPRING LOADED DETENT PIN	

ALUMINUM MATERIAL LIST					
ITEM #	PART #	MATERIAL DESCRIPTION:	ALLOY	THICKNESS	REV.
1	40-001	GUTTER HEAD	6063-T6	0.125	
2	40-002	SILL	6063-T6	0.125	
3	40-003	GUTTER SPLICE	6005A-T61	0.313	
4	40-004	MALE MULLION	6063-T6	0.188	
5	40-005	FEMALE MULLION	6063-T6	0.188	
6	40-006	MALE 45 DEG. CORNER	6005A-T61	0.188	
7	40-007	MALE 45 DEG. CORNER	6005A-T61	0.188	
8	40-008	FEMALE 45 DEG. CORNER	6005A-T61	0.188	
9	40-009	FEMALE 45 DEG. CORNER	6005A-T61	0.188	
10	40-010	VERTICAL REVEAL	6063-T6	0.125	
11	40-011	HORIZONTAL REVEAL FOR SILL	6063-T6	0.125	
12	40-012	HORIZONTAL REVEAL FOR GUTTER HEAD	6063-T6	0.094	
13	40-013	VERTICAL REVEAL @ 90 DEG. CORNER	6063-T6	0.094	
14	40-014	TOP OF SLAB SERRATED ANCHOR	6005A-T61	0.467	
15	40-015	LOCK BLOCK	6005A-T61	0.553	
16	40-016	ANCHOR SLIDE	6005A-T61	0.250	
17	40-017	DOG BONE	6005A-T61	0.438	
18	40-018	45 DEG CORNER ANCHOR SLIDE	6005A-T6	0.280	
19	40-019	VERTICAL TRIM ADAPTOR	6063-T6	0.090	
20	40-020	3" VERTICAL TRIM	6063-T6	0.062	
21	40-026	INTERMEDIATE HORIZONTAL	6063-T6	0.125	
22	40-027	GLAZING SUPPORT	6061-T6	0.113	
23	40-028	BUCKLING CLIP	6063-T6	0.050	
24	40-029	STARTER SILL ADAPTOR	6005A-T6	0.250	
25	40-030	3" HORIZONTAL FIN ACCENT (SUBSILL)	6063-T6	0.100	
26	40-035	3" HORIZONTAL FIN ACCENT (HEAD)	6063-T6	0.100	



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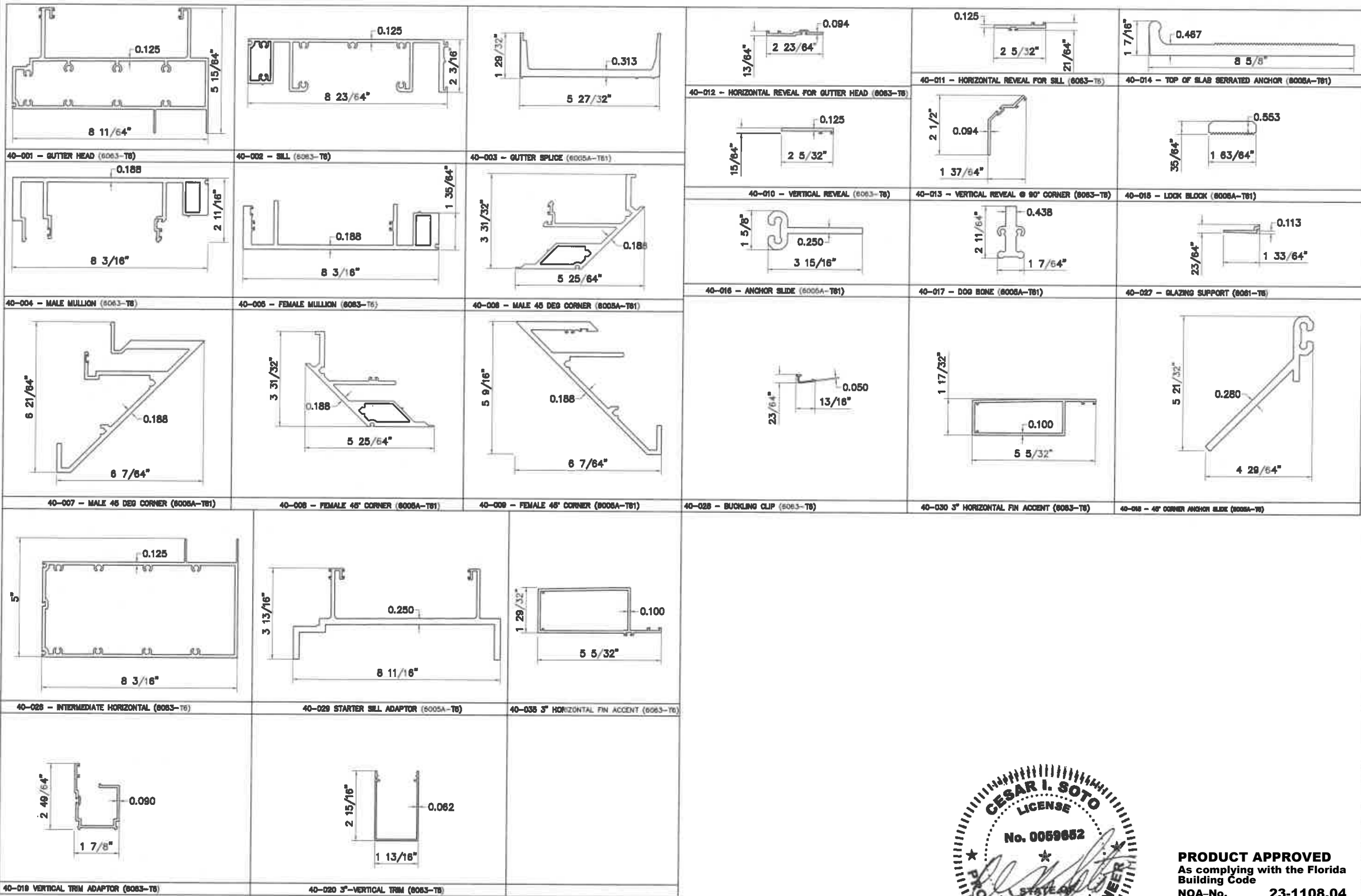
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DATE: October 30th, 2023	SCALE N.T.S.
DRAWN BY RC	SHEET NO. P7.01
SHEET: 23 of 24	



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