



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

Novum Structures, LLC.
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051

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 "HG01 Vertical PSG" Multiple Point Supported Glass Curtain Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **25-183**, titled "Novum's Point Supported Glass System: HG01 Vertical Wall System", sheets: MU100-3, MU100A-1, MU100B-1, MU100C-1, MU200-1, MU210-1, MU500-1, MU501-1, MU502-1, MU510-1, MU511-1, MU512-1, MU514-1, MU515-1, MU516-1, MU700-1, MU710-1, MU800-1, MU801-1, MU802-1, MU803-1 and MU804-1 for a total of 22 sheets, dated 03/04/10, with revision #3 dated 12/12/18 and revision #1 dated from 07/23/11, prepared by Larson Engineering, Inc., signed and sealed by Ethan A. Charpentier, 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: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Veitshoechheim, Germany, 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 NOA No. **15-1027.03** and consists of this page 1 and 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.**

MIAMI-DADE COUNTY
APPROVED

WP
2/15/19

NOA No. 19-0110.09
Expiration Date: August 25, 2021
Approval Date: February 28, 2019
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

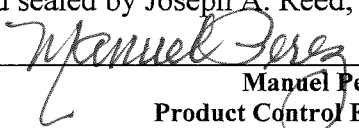
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA# 11-0412.06)
2. Drawing No. **25-183**, titled "Novum's Point Supported Glass System: HG01 Vertical Wall System", sheets: MU100-2, MU100A-1, MU100B-1, MU100C-1, MU200-1, MU210-1, MU500-1, MU501-1, MU502-1, MU510-1, MU511-1, MU512-1, MU514-1, MU515-1, MU516-1, MU700-1, MU710-1, MU800-1, MU801-1, MU802-1, MU803-1 and MU804-1 for a total of 22 sheets, dated from 03/02/10 to 08/02/11, with revision #2 dated 10/08/15 and revision #1 dated from 07/22/11 to 08/02/11, prepared by Larson Engineering, Inc., signed and sealed by Ethan A. Charpentier, 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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a multiple point supported system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6321**, dated 01/13/11, revised, reissued, signed and sealed dated by Marlin D. Brinson, P.E.
(Submitted under NOA# 11-0412.06)
2. 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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a multiple point supported system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6323**, dated 05/23/11, revised, reissued, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA# 11-0412.06)
3. 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
along with marked-up drawings and installation diagram of a multiple point supported system, prepared by Architectural Testing, Inc., Test Report No. **ATI-49758.01-120-18**, dated 07/02/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA# 11-0412.06)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 19-0110.09
Expiration Date: August 25, 2021
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC-2007, prepared by Larson Engineering, Inc., dated 10/20/10, revised, signed, sealed and dated 08/01/11 by Ethan A. Charpentier, P.E.
(Submitted under NOA# 11-0412.06)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

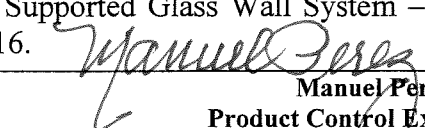
1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, dated October 20, 2015, issued by Larson Engineering, Inc., signed and sealed by Ethan Charpentier, P.E.
2. Statement letter of independence and no financial interest, dated 10/23/10, signed and sealed by Ethan A. Charpentier, P.E.
(Submitted under previous NOA# 11-0412.06)
3. Laboratory compliance letter for Test Report No. **FTL-6321**, issued by Fenestration Testing Laboratory, Inc., dated 01/13/11, revised, signed, sealed and dated 08/01/2011 by Marlin D. Brinson, P.E.
4. Laboratory compliance letter for Test Report No. **FTL-6323**, issued by Fenestration Testing Laboratory, Inc., dated 05/23/11, revised, signed, sealed and dated 08/01/2011 by Marlin D. Brinson, P.E.
5. Laboratory compliance letter for Test Report No. **ATI-49758.01-120-18**, issued by Architectural Testing, Inc., dated 07/02/04, signed and sealed by Joseph A. Reed, P.E.
6. Evaluation Report of the Architectural Testing, Inc. Test Report No. **ATI-49758.01-120-18** dated 12/20/04, signed and sealed by Keshwar P. Ramdular, P.E.
7. Tensile Test prepared by Stork Technimet, Inc., Test Report No. **STI-0404-09609**, dated 05/11/04, signed by Anna Mayhew-Rozek.
(All submitted under previous NOA# 11-0412.06)

G. OTHERS

1. Notice of Acceptance No. **11-0412.06**, issued to Novum Structures, LLC for their Series "HG01 Vertical PSG" Multiple Point Supported Glass Wall System – L.M.I., approved on 08/25/11 and expiring on 08/25/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 19-0110.09
Expiration Date: August 25, 2021
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **25-183**, titled “Novum’s Point Supported Glass System: HG01 Vertical Wall System”, sheets: MU100-3, MU100A-1, MU100B-1, MU100C-1, MU200-1, MU210-1, MU500-1, MU501-1, MU502-1, MU510-1, MU511-1, MU512-1, MU514-1, MU515-1, MU516-1, MU700-1, MU710-1, MU800-1, MU801-1, MU802-1, MU803-1 and MU804-1 for a total of 22 sheets, dated 03/04/10, with revision #3 dated 12/12/18 and revision #1 dated 07/23/11, prepared by Larson Engineering, Inc., signed and sealed by Ethan A. Charpentier, 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. **17-0808.02** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, dated December 27, 2018, issued by Larson Engineering, Inc., signed and sealed by Ethan Charpentier, P.E.

G. OTHERS

1. Notice of Acceptance No. **15-1027.03**, issued to Novum Structures, LLC for their Series “HG01 Vertical PSG” Multiple Point Supported Glass Wall System – L.M.I., approved on 04/14/16 and expiring on 08/25/21.



Manuel Perez, P.E.

Product Control Examiner

NOA No. 19-0110.09

Expiration Date: August 25, 2021

Approval Date: February 28, 2019

NOVUM'S POINT SUPPORTED GLASS SYSTEM: HG01 VERTICAL WALL SYSTEM

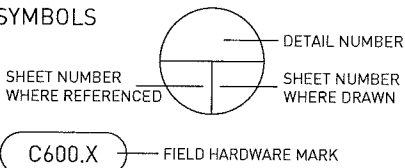
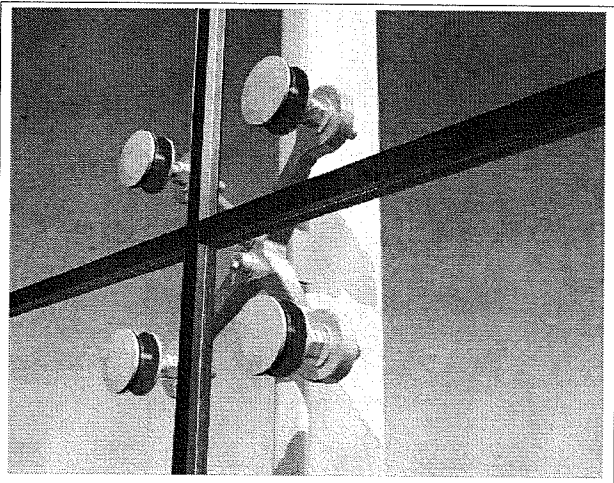
System Description

The Novum Hurricane PSG vertical system that has been tested for Miami - Dade NOA consists simply of glass, rotules, and silicone joints. A perimeter channel is also a tested part of the system.

The glass is fully tempered and laminated. Both pieces of glass are 0.375" thick. The laminate is 0.090" Kuraray Sentry Glass Interlayer by Kuraray America, Inc. per NOA No 17-0808.02. Therefore the overall thickness is 0.84".

The RB22-16 rotules are ss fixtures that consist of a rotating head and 16 mm diameter threaded rod that allow it to be mounted through a hole in the glass and in turn fastened to a support structure using the threaded rod. The silicone joints consist of an extruded silicone profile pushed into the 0.75" (20 mm) wide space between adjoining glass panels from the inside and acts as a backer. This profile fills about 60% of the depth of the joint. The outer 40% of the space is filled with Dow Corning 795 silicone sealant which produces the weather tight seal.

The steel glazing arms and support HSS framework used in the test is not part of the "system". On future projects using HG01, the glazing arms and steel support framework will be designed using conventional analysis methods and appropriate material design and building codes. It will not be subject to NOA testing or approval.



ABBREVIATIONS

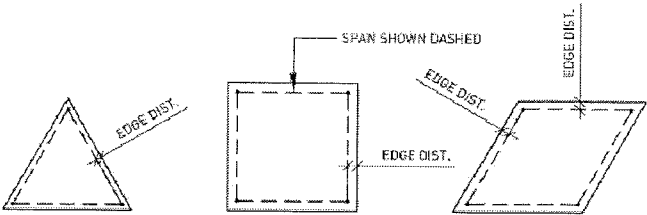
NS = NEAR SIDE
FS = FAR SIDE
MK. = MARK NUMBER
TYP. = TYPICAL
SIM. = SIMILAR
OPP. = OPPOSITE HAND

SYM. = SYMETRICAL
U.N.O. = UNLESS NOTED OTHERWISE
C.L. = CENTER LINE
RHS = RIGHT HAND SIDE
LHS = LEFT HAND SIDE

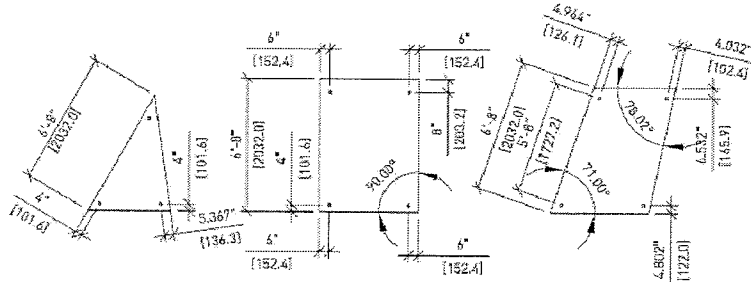
Limitations For Use

- Maximum imposed design load of 133 psf when system is used as a curtain wall/storefront (< 15° from vertical). This is based on a factor of safety of 1.5 against breakage at 200 psf.

Dead load of glass is not considered part of an imposed load (i.e.; glass can allowably handle 133 psf normal to its surface plus the weight of the glass).
- Maximum panel side length:
a) Square = 80" or 6'-8"
b) Rectangle = 80" or 6'-8"
c) Trapezoid = 80" or 6'-8"
d) Triangle = 80" or 6'-8"
- Maximum span between adjacent rotules as defined in diagram below = 68" or 5'-8".



- Edge distance from center of rotule to nearest glass edge must be between 3.5" and 6".
- Trapezoids must have a minimum interior angle of 60° or greater. Triangles have no angular requirements.
- All rectangles, triangles and trapezoids meeting the above limitations are acceptable. Below are examples of other possibilities. Many other possibilities are not shown.



- A continuous edge channel may be used for support along one edge of any square or rectangular panel with rotules at the remaining 2 corners.
- Large missile testing has been done and therefore the system may be used for enclosures and there is no restriction as to what elevation from the ground.
- The Novum Hurricane PSG system that pertaining to this NOA consists simply of the glass, rotules, and silicone joints. A perimeter channel is also a tested part of the system.
- The steel support arms and any support framework is not part of the "system". On future projects using HG01, the support arms and steel support framework will be designed using conventional analysis methods and appropriate material design and building codes. It will not be subject to NOA testing or approval.

Support framing must not deflect more than L/160.

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
MOCK-UP SAMPLE #1 & #2	MU100 MU100A MU100B MU100C GENERAL NOTES PART: ROTULE INFORMATION PART: GASKET DETAIL: NON-CHAMFERED GLASS JOINT PART: GASKET DETAIL: CHAMFERED GLASS JOINT
MOCK-UP SAMPLE #1 ONLY	MU200 MU500 MU501 MU502 MU700 MOCK-UP: MAIN PLAN AND ELEVATION VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: GLASS JOINT DETAIL VIEWS MOCK-UP: GLASS LAYOUT & DIMENSIONS
MOCK-UP SAMPLE #2 ONLY	MU210 MU510 MU511 MU512 MU513 MU514 MU515 MU516 MU710 MOCK-UP: MAIN PLAN AND ELEVATION VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS DRAWING ELIMINATED FROM SET MOCK-UP: GLASS JOINT DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: GLASS LAYOUT & DIMENSIONS
GLASS DWGS. & DETAILS	MU800 MU801 MU802 MU803 MU804 GLASS MAKE-UP SHEET (NON ART GLASS) GLASS MAKE-UP SHEET (ART GLASS) GLASS FABRICATION DRAWING (NON ART GLASS) GLASS FABRICATION DRAWING (ART GLASS) BILL OF MATERIALS

DESIGN PARAMETERS

FLORIDA BUILDING CODE 2017

TEST REPORTS FROM FENESTRATION TESTING LABORATORY, INC.:

- 1) FLAT MOCK-UP: REPORT DATE = 1/13/2010
- 2) ZIG ZAG MOCK-UP: REPORT DATE = 5/23/2011

-DESIGN PRESSURE: +133 PSF
-DESIGN SUCTION: -133 PSF

TAS-201 - IMPACT TEST PROCEDURES
TAS-202 - AIR LEAKAGE, WATER PENETRATION & STRUCTURAL PERFORMANCE TEST PROCEDURES
TAS-203 - CYCLING TEST PROCEDURES

ASTM STANDARDS
E283 - AIR INFILTRATION TEST PROCEDURE
E330 - STRUCTURAL PERFORMANCE TEST PROCEDURES
E331 - WATER PENETRATION; STATIC & DYNAMIC, TEST PROCEDURES
E1886 - MISSILE IMPACT & CYCLIC PRESSURE TESTING - LEVEL A & LEVEL D, TEST PROCEDURE
E1996 - HURRICANE DEBRIS IMPACT TESTING PROCEDURES

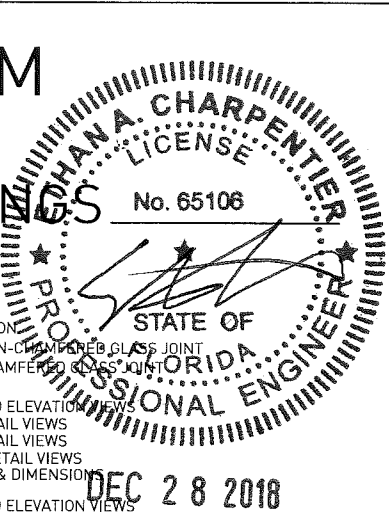
GLASS MAKE-UP #1
3/8", FULLY TEMPERED, CLEAR
0.090" 1-PLY CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc.
per NOA No 17-0808.02
3/8", FULLY TEMPERED, CLEAR

GLASS MAKE-UP #2
3/8", FULLY TEMPERED, CLEAR
0.090" 1-PLY CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc.
per NOA No 17-0808.02
3/8", FULLY TEMPERED, CLEAR
0.060" 1-PLY CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc.
per NOA No 17-0808.02
1/2", FULLY TEMPERED, CLEAR

STAINLESS STEEL
ROTULE: 316SS

SEALANTS
FRAME ASSEMBLY SEALS- MEDIUM CONSTRUCTION SILICONE SEALANT- IE: DOW CORNING #795
EXPOSED WEATHER SEALS- MEDIUM MODULUS CONSTRUCTION SILICONE SEALANT- IE: DOW CORNING #795
SILICONE COLOR- BLACK (OR OTHER DOW CORNING STANDARD COLORS)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 19-0110-09
Expiration Date Aug 25, 2021
By [Signature]
Miami Dade Product Control



ALL RIGHTS RESERVED. THIS DRAWING OR ANY PART THEREOF MUST NOT BE REPRODUCED WITHOUT PERMISSION OF NOVUM STRUCTURES LLC.

Larson Engineering, Inc.
3024 Larson Road
White Bear Lake, MN 55110
(763) 451-4811 (T) (763) 451-4811 (F)

Florida Firm No. F-0000000175
Certificate of Authorization #0003
Registration No. 60100
ENGINEER STAMP:

AFFIRMATION STAMP:

NOVUM STAMP:

3	12DEC18	SWK	SWK
UPDATED CODE FROM 2007 TO 2014 AND INTERLAYER NOA #			
10/08/15	MM	SWK	
UPDATED CODE FROM 2007 TO 2014			
22JUL11	BTH	SWK	
REVISED PER COMMENTS BY BCCO			
REV. NO.	DATE	DWG. BY	CHK. BY

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NOVUM

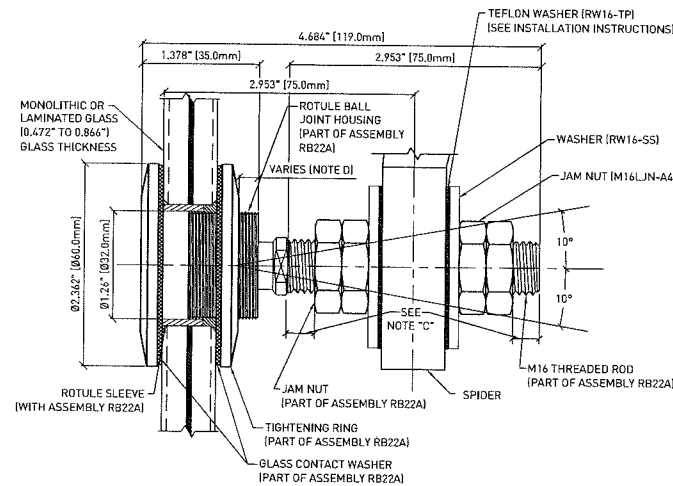
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1 & #2
COVER SHEET

DRAWN BY:	BTH	DATE:	04MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	NONE	PROJECT NUMBER:	GB

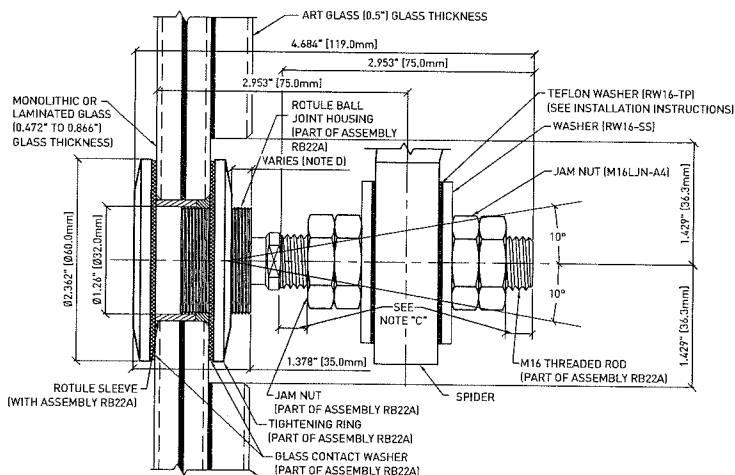
25-183

SHEET NUMBER
MU100-3

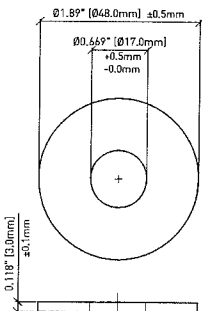


RB22-16 BUTTONHEAD ROTULE UNIT

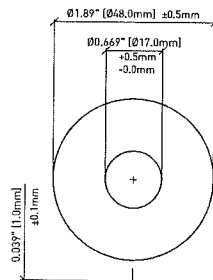
NOTES:
A) DIMENSIONS IN BRACKETS ARE IN MM.
WHICH ARE THE CONTROLLING DIMENSIONS.
B) SEE PART DRAWINGS FOR TOLERANCES.
C) EXPOSED THREAD DISTANCE IS TO
BE NEARLY EQUAL ON BOTH SIDES
OF SPIDER.
D) MAX 10.0mm (12mm GLASS)
MIN 0.0mm (2mm GLASS)



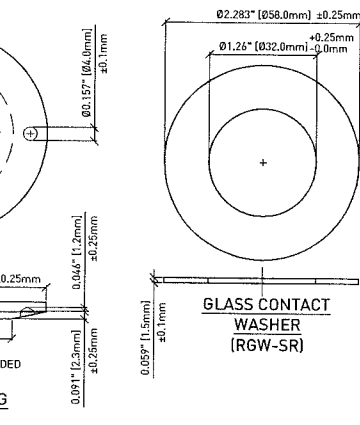
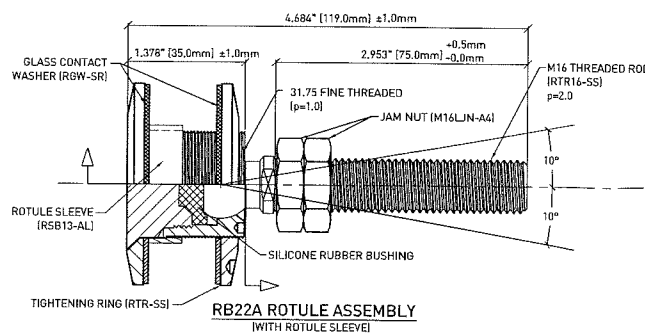
RB22-16 BUTTONHEAD ROTULE UNIT
WITH "ART GLASS"



STAINLESS STEEL WASHER
(RW16-SS)



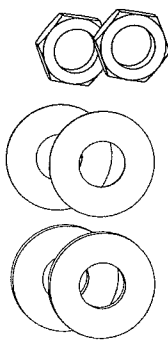
TEFLON WASHER
(RW16-TP)



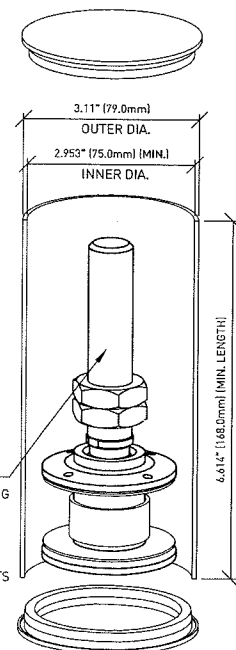
TIGHTENING RING
(RTR-SS)

PACKAGING DIAGRAM
NOT TO SCALE

PACKED IN A PLASTIC BAG WITHIN THE TUBE:
2 M16 LOW HEXAGON JAM NUTS
2 TEFLON WASHERS FOR M16 ROD
2 STAINLESS STEEL WASHERS FOR M16 ROD

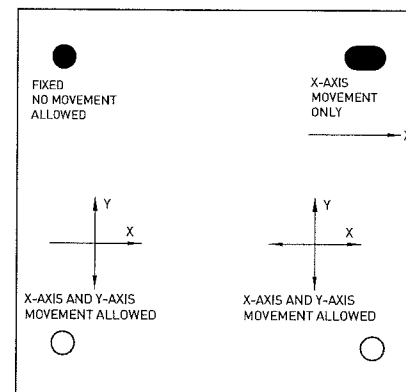


1 ROTULE ASSEMBLY WITH:
1 ROTULE BALL JOINT HOUSING
1 M16x75 THREADED ROD
2 GLASS CONTACT WASHER
1 ROTULE TIGHTENING RING
1 ROTULE SLEEVE
2 M16 LOW HEXAGON JAM NUTS



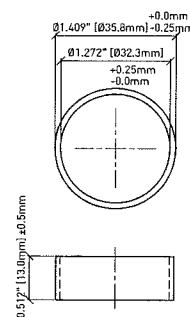
GLASS INSTALLER NOTE:

EACH PANEL OF GLASS IS DESIGNED TO BE ABLE TO MOVE AS SHOWN
BELOW. ON THE ROTULES, THE INNER JAM NUTS SHOULD ONLY BE
HAND TIGHTENED AGAINST THE WASHERS (U.N.Q.) TO MAKE SURE THE
INNER JAM NUTS WILL NOT BACK OFF, FULLY TIGHTEN OUTER NUTS
AGAINST THEM. THIS WILL ALLOW THE ROD TO MOVE AS DESIGNED.



VIEW OF ONE GLASS PANE
FROM OUTSIDE/ABOVE LOOKING IN

ASSEMBLY NOTES:
1) RTR-SS IS TO BE PLACED NEAR THE
BOTTOM OF THE HEAD, AS SHOWN.
2) JAM NUTS ARE TO BE PLACED NEAR
THE TOP OF THE ROD, AS SHOWN.



ROTULE SLEEVE
BUTTONHEAD (RSB13-AL)

NOTE: USE SLEEVE RSB9-AL
(0.354\"/>

PSG M16 BUTTONHEAD ROTULE (RB22-16) INSTALLATION NOTES

INSPECTION OF THE ROTULE ON SITE:
BEFORE THE ROTULE UNITS (RB22-16) ARE INSTALLED INTO THE GLASS
PANELS, EACH INDIVIDUAL ROTULE ASSEMBLY AND ITS COMPONENTS MUST BE
INSPECTED FOR SCRATCHES, UNIMPEDED MOVEMENT, DAMAGE TO THE
THREAD OR TO THE WELDING SEAM, DAMAGE TO THE WASHERS AND THE
PERIMETER EDGES OF THE RINGS, OR ANY OTHER DEFECT. DO NOT USE
DAMAGED ROTULES.

THE SIZE OF ALL GLASS HOLES MUST BE CHECKED. PLACE A ROTULE SLEEVE
INTO EACH HOLE (UNLESS INSTALLED BY GLASS MANUFACTURER) AND
REMOVE ANY EXCESS INTERLAYER THAT MAY BE IMPEDING A PROPER FIT.

ONCE INSPECTED, THOROUGHLY CLEAN EACH PART OF THE ROTULE.

1) REMOVE THE TIGHTENING RING (RTR-SS), BOTH GLASS CONTACT
WASHERS (RGW-SR), AND THE ROTULE SLEEVE (RSB13-AL) FROM THE
ROTULE ASSEMBLY.

2) LAY A SMALL BEAD OF CLEAR SILICONE AROUND THE OUTER GLASS
LITE (SMALLER HOLE). INSTALL THE ROTULE SLEEVE IN THE GLASS
HOLE, ENSURING THAT THE OUTER EDGE IS FLUSH WITH THE EXTERIOR
FACE OF GLASS.

NOTE: FOR 0.472\"/>

3) PLACE A BEAD OF CLEAR SILICONE ON THE UNDERSIDE OF THE
BUTTONHEAD CAP AROUND THE EDGE OF THE BALL JOINT HOUSING.
PUT ONE GLASS CONTACT WASHER AGAINST THE UNDERSIDE OF THE
BUTTONHEAD CAP. PLACE ANOTHER BEAD OF CLEAR SILICONE ON
THE UNDERSIDE OF THE GLASS CONTACT WASHER AGAINST THE EDGE
OF THE BALL JOINT HOUSING. INSERT THE ROTULE INTO THE GLASS.

4) ON THE OPPOSITE SIDE OF THE GLASS, FILL IN THE VOID BETWEEN THE
GLASS AND THE ROTULE HOUSING WITH CLEAR SILICONE, COMING UP
JUST ABOVE FLUSH.

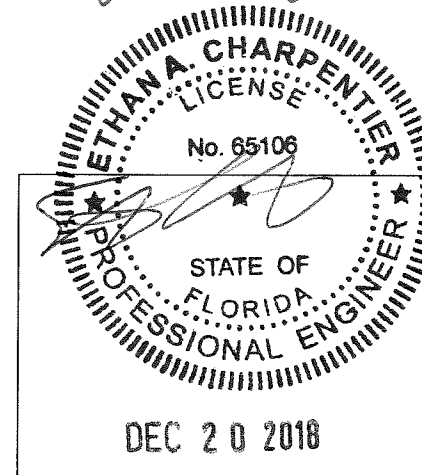
5) PLACE THE SECOND GLASS CONTACT WASHER THROUGH THE ROD
AGAINST THE GLASS AND TWIST THE TIGHTENING RING AGAINST THE
WASHER SNUG TIGHT. CLEAN OFF ANY EXCESS SILICONE ON EITHER
SIDE OF THE GLASS. LIFT THE GLASS PANEL, CENTERING THE
THREADED RODS OVER THE SPIDER HOLES. PLACE ONE STAINLESS
STEEL WASHER (RW16-SS) AND ONE TEFLON WASHER (RW16-TP) ON
EACH ROD, THEN SLIDE THE RODS THROUGH THE SPIDER HOLES.
(OMIT THE TEFLON WASHER AT ALL FIXED-HOLE CONNECTIONS.)

6) POSITION THE GLASS IN THE FINAL POSITION NORMAL TO THE SPIDER.
TIGHTEN THE TWO M16 LOW HEXAGON JAM NUTS (M16LJN-A4) THAT
ARE PART OF THE ROTULE ASSEMBLY (RB22A) TO SECURE THE GLASS
POSITION. THE SPIDER SHOULD BE POSITIONED NEAR THE CENTER OF
THE ROTULE THREADED ROD, UNLESS NOTED OTHERWISE BY THE
DESIGN ENGINEER.

7) PLACE ONE TEFLON WASHER (RW16-TP) AND ONE STAINLESS STEEL
WASHER (RW16-SS) ON THE THREADED ROD. (OMIT TEFLON WASHER
AT ALL FIXED-HOLE CONNECTIONS.) SPIN ON TWO M16 LOW HEXAGON
JAM NUTS (M16LJN-A4). HAND-TIGHTEN ALL NUTS TO HOLD THIS
GLASS POSITION.

NOTE: AT A FIXED-HOLE CONNECTION, FULLY TIGHTEN THE
NUTS AGAINST THE SPIDER. TO PREVENT THE ROTULE FROM
SPINNING (AND THE SEALANT FROM FAILING), CLAMP THE
FLATS OF THE THREADED ROD BEFORE TIGHTENING.

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Expiration Date Aug 25, 2021
By [Signature]
Miami Dade Product Control



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Ethan A. Charpentier
Registration No. 65106

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

22JUL11 BTH SWK
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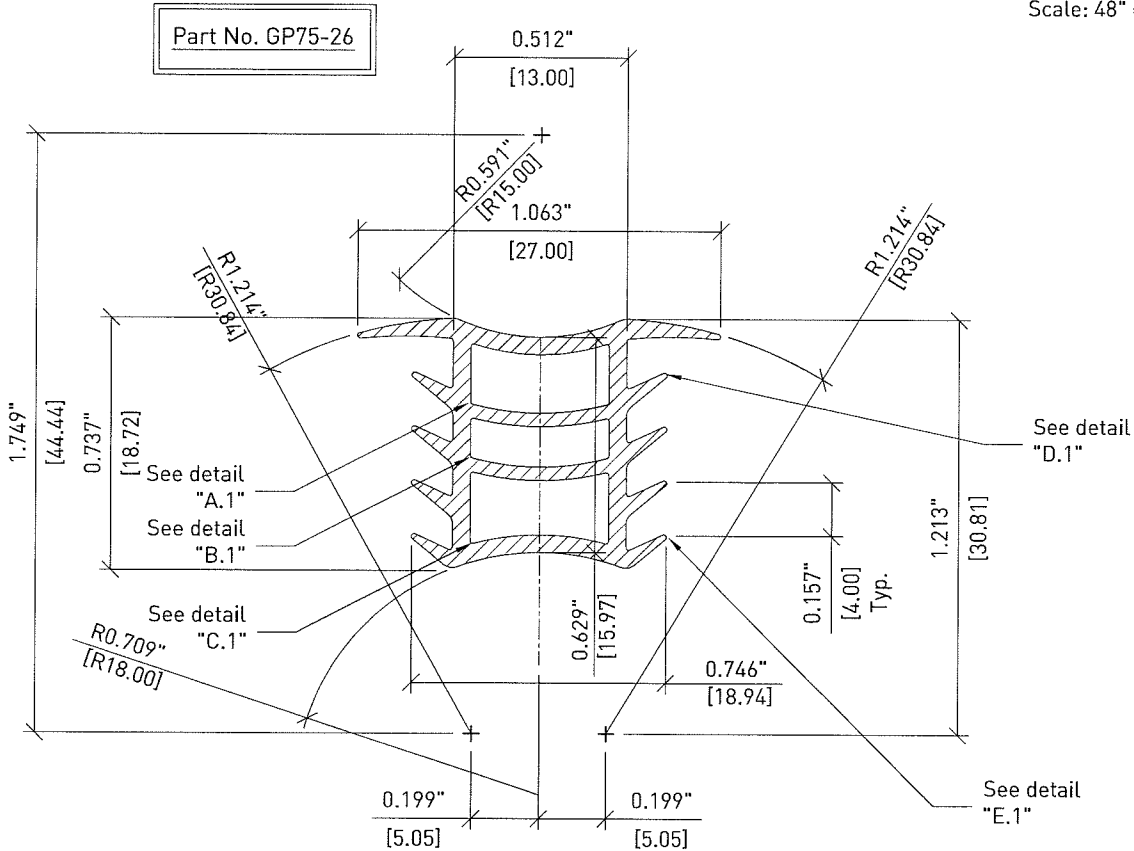
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H601
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
RB22-16 FABRICATION
DRAWING

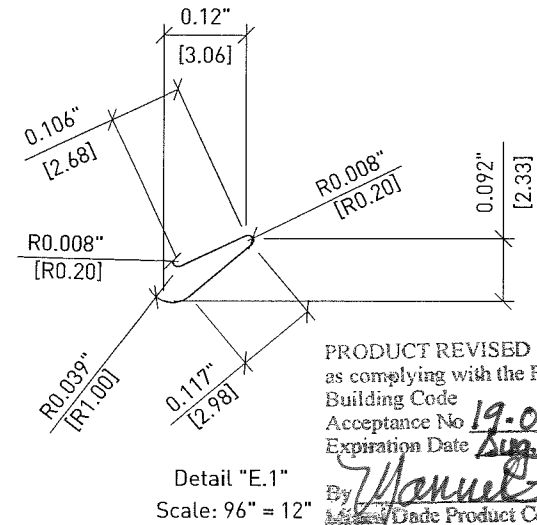
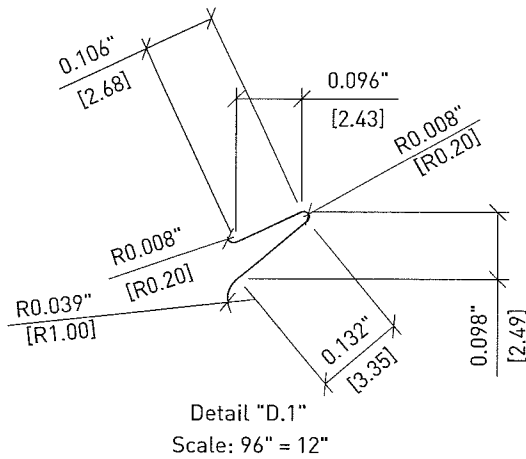
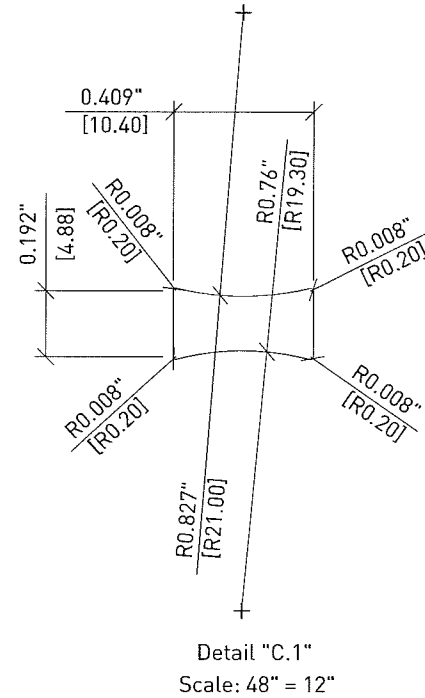
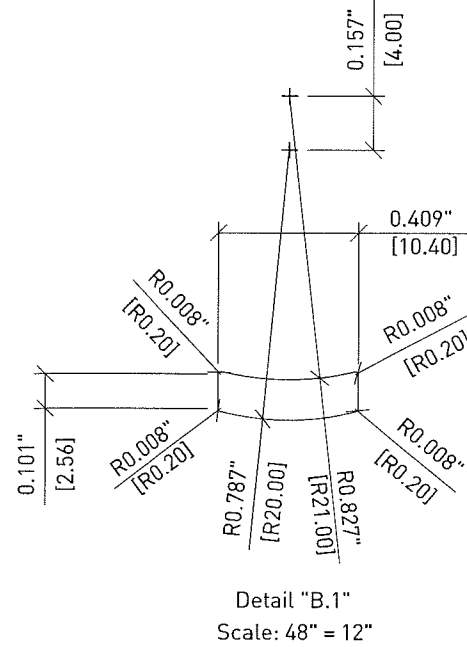
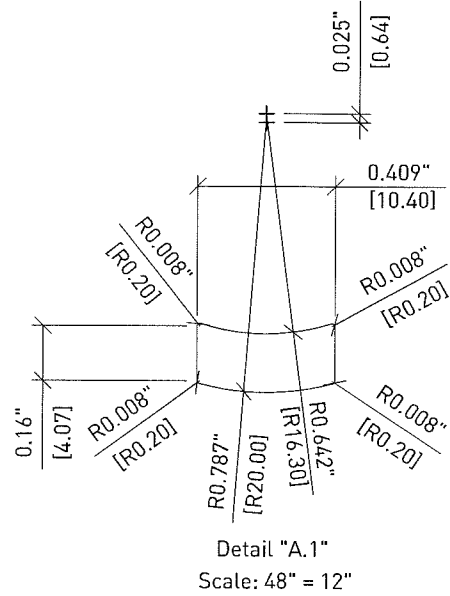
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SCALE: N.T.S. PROJECT MANAGER: GB

SHEET NUMBER:
25-183

SHEET NUMBER:
MU100A-1

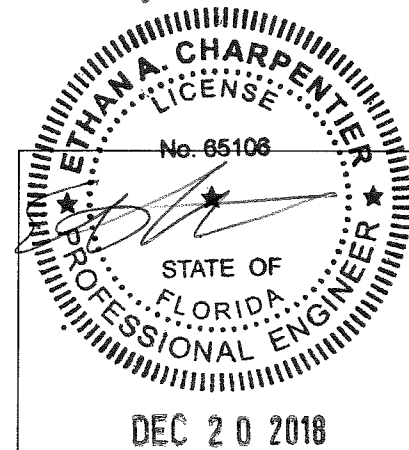


Detail: silicone extrusion gasket
Durometer = 70 +/-5 Shore A
Scale: 48" = 12"



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Expiration Date Aug 25, 2021

By *Manuel Lopez*
Date Product Control



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NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H001
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1 & #2
SILICONE EXTRUSION
DETAIL

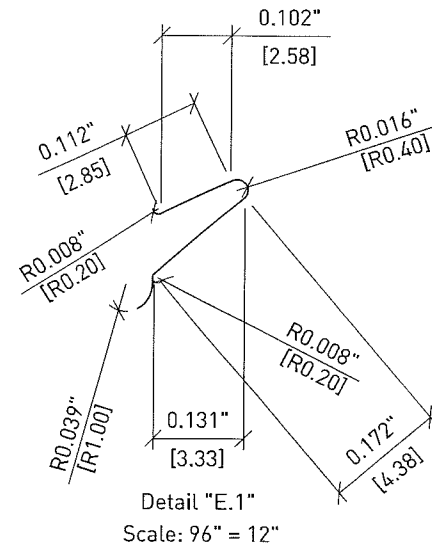
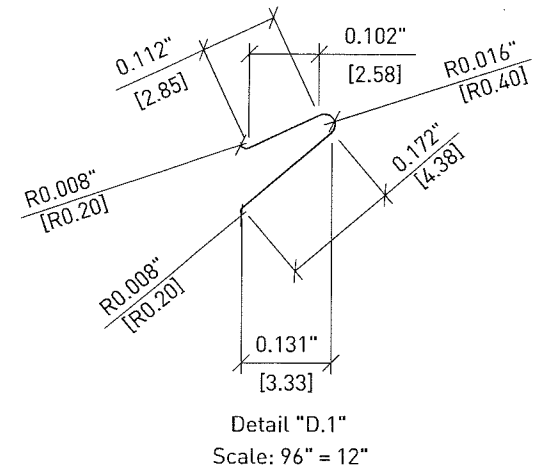
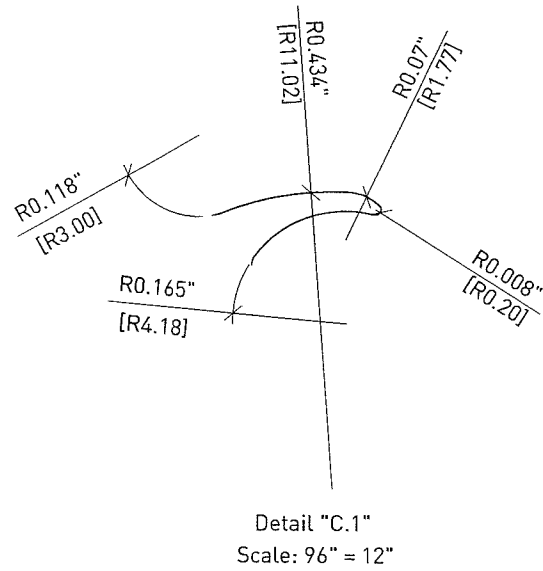
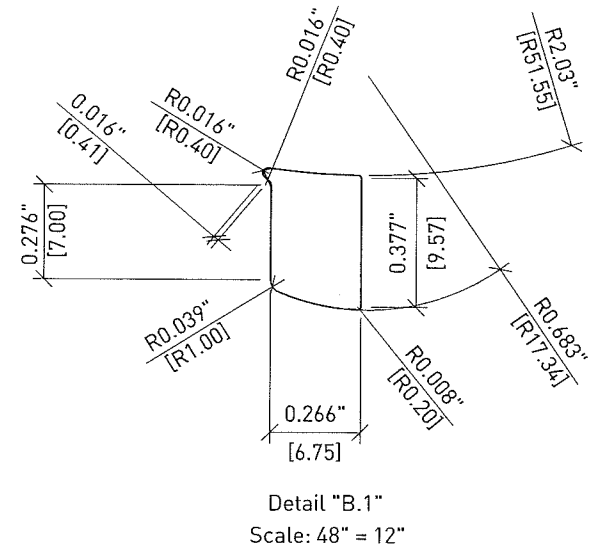
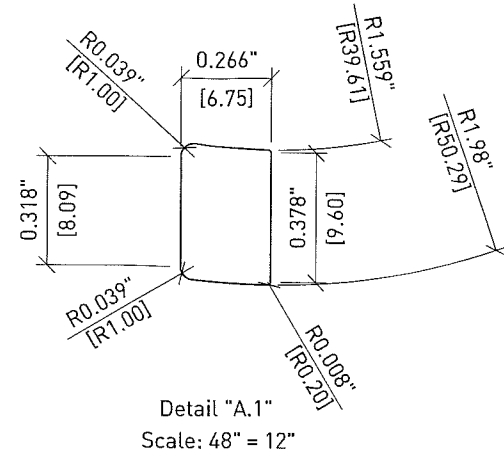
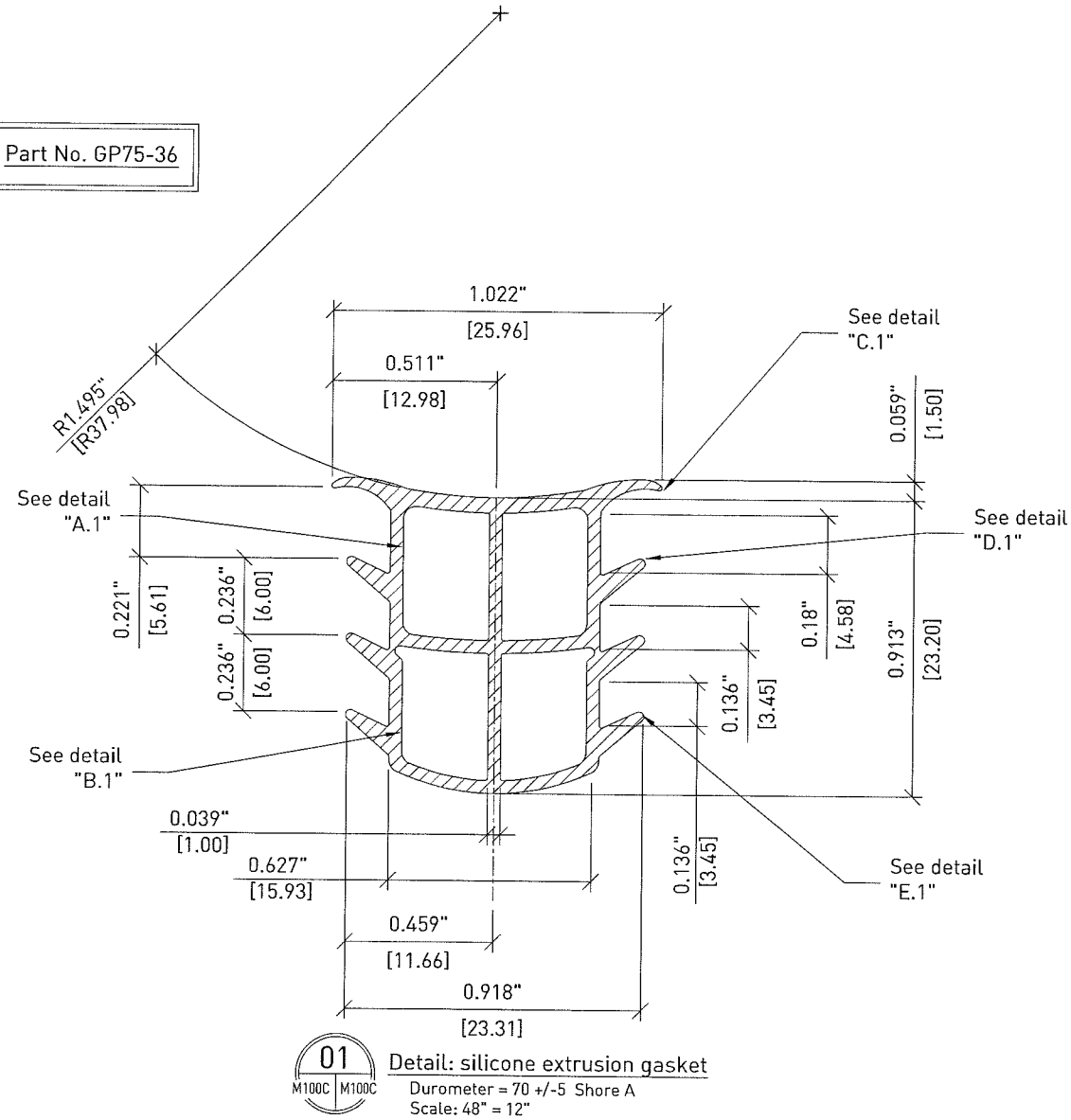
DATE	BY
04MAR10	BTH

CHECKED BY: SWK
SCALE: 48"=12"
PROJECT MANAGER: GB

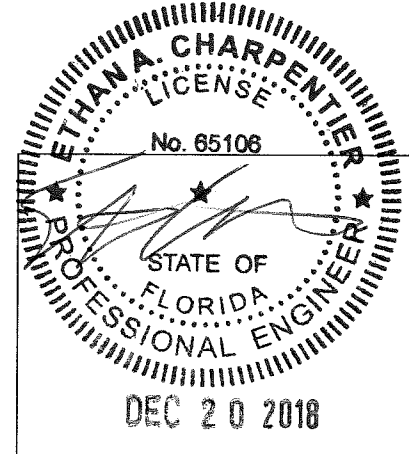
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25-183

SHEET NUMBER:
MU100B-1

Part No. GP75-36



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NOVUM

PROJECT:
NOVUM'S HURRICANE P56
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1 & #2
SILICONE EXTRUSION
DETAIL @ CHAMFERED JOINT

DRAWN BY:	DATE:
BTH	04MAR10

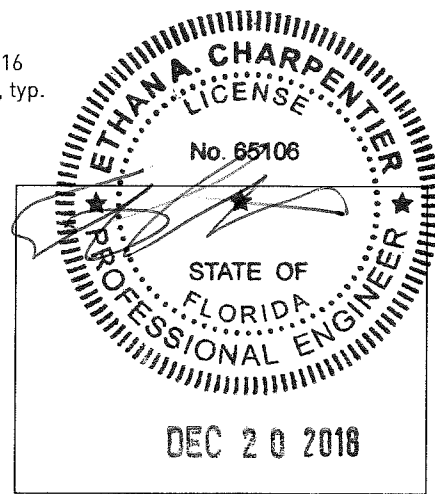
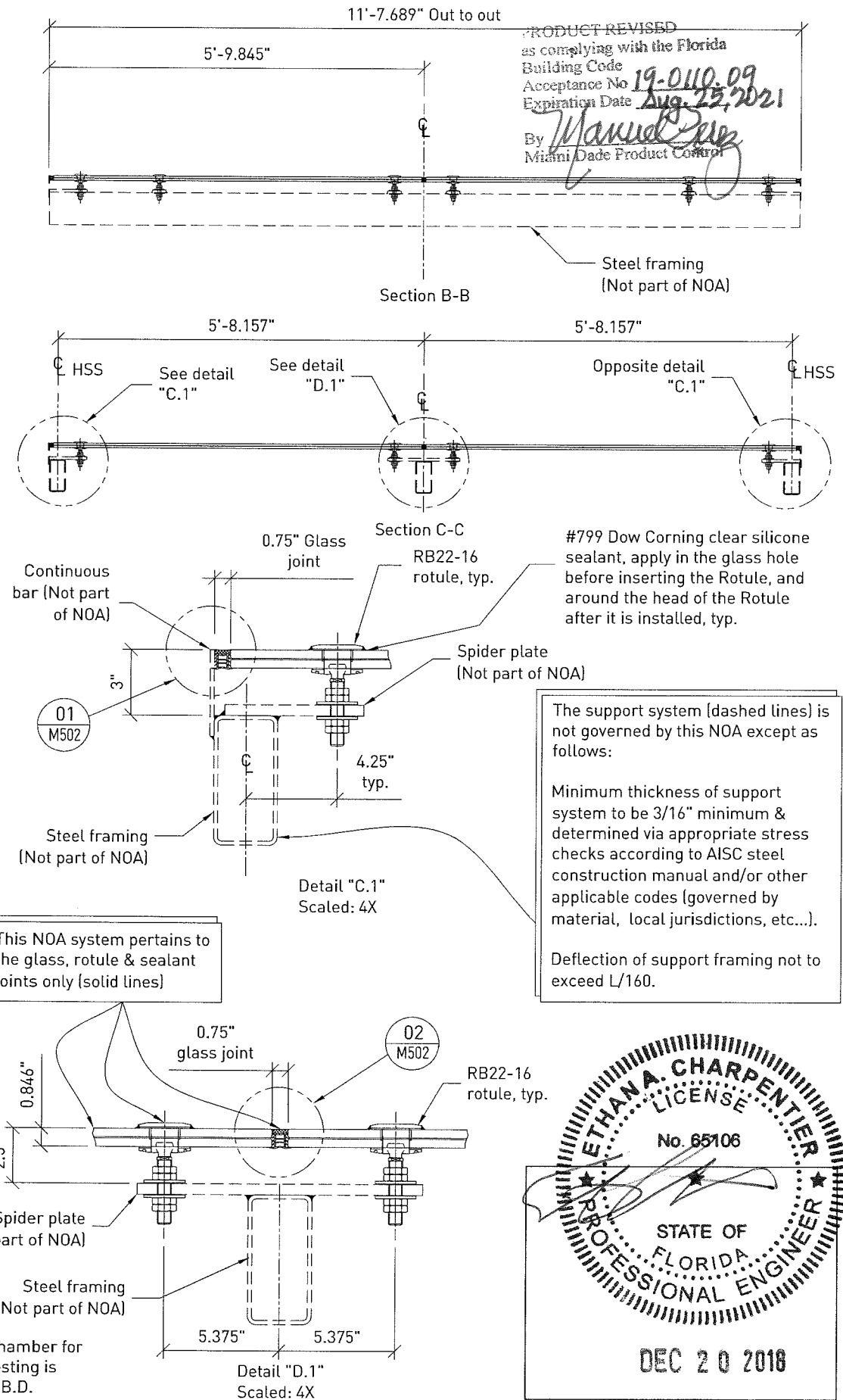
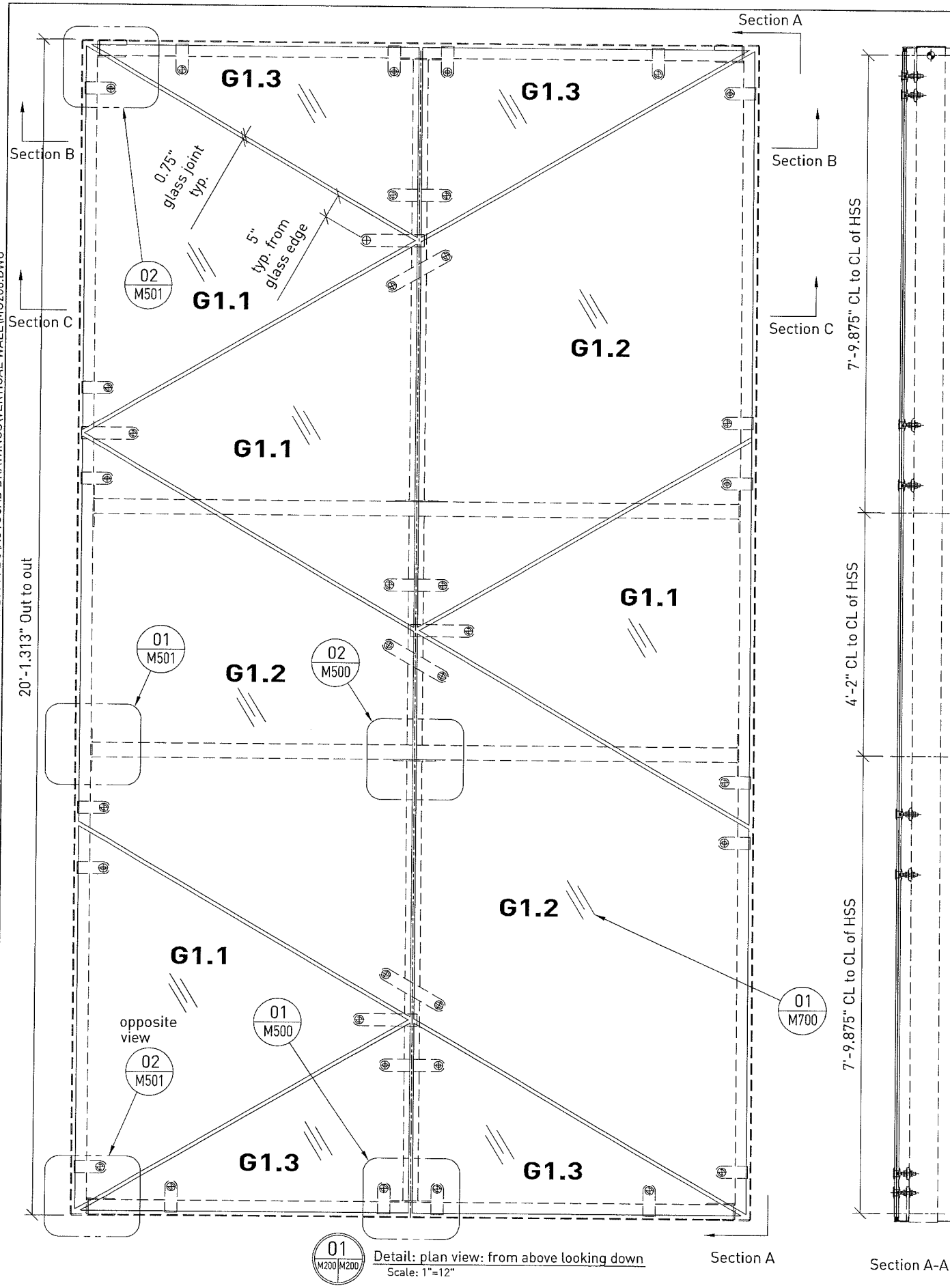
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SWK	SWK

SCALE:	PROJECT NUMBER:
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25-183

SHEET NUMBER:
MU100C-1

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NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H001
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1
PLAN & ELEVATION VIEWS

DRAWN BY:	DATE:
BTH	02MAR10

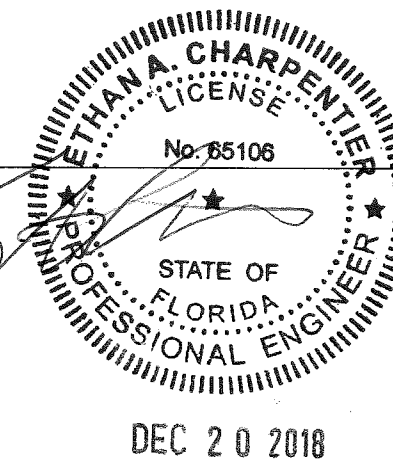
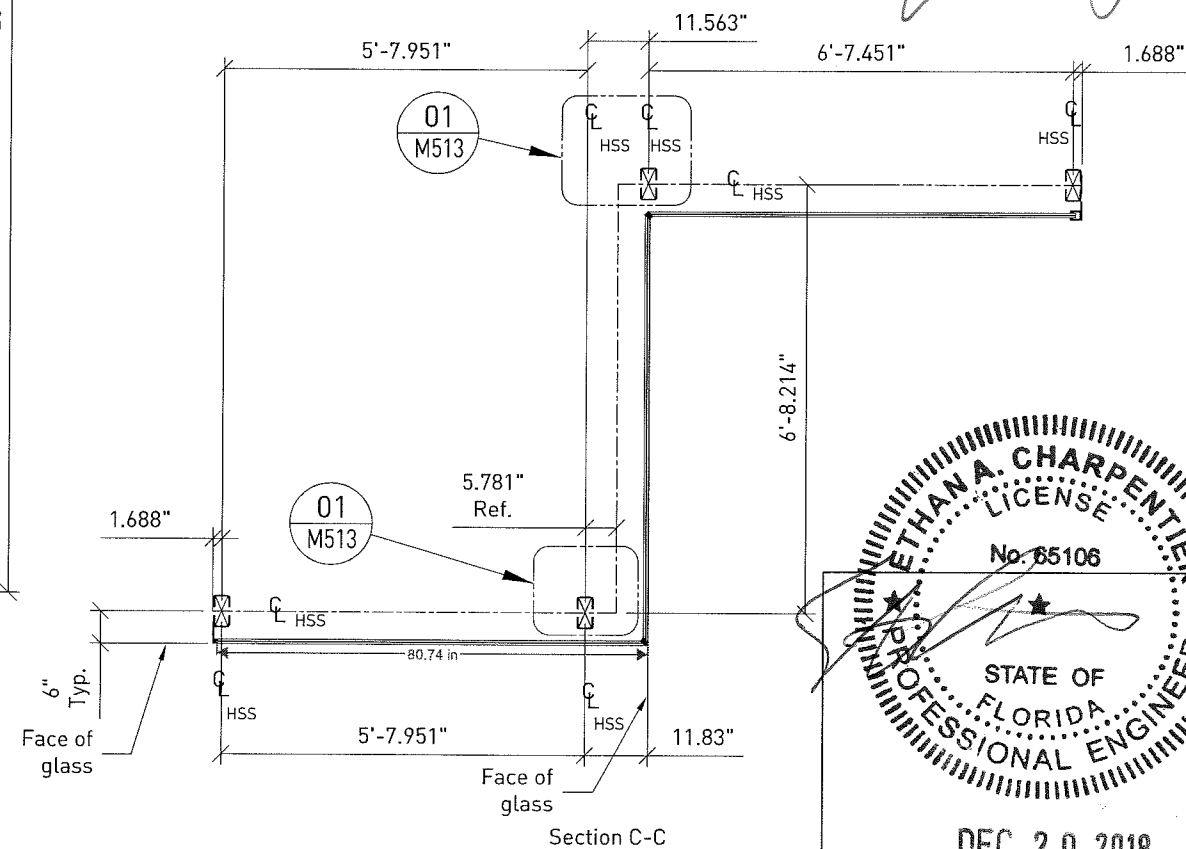
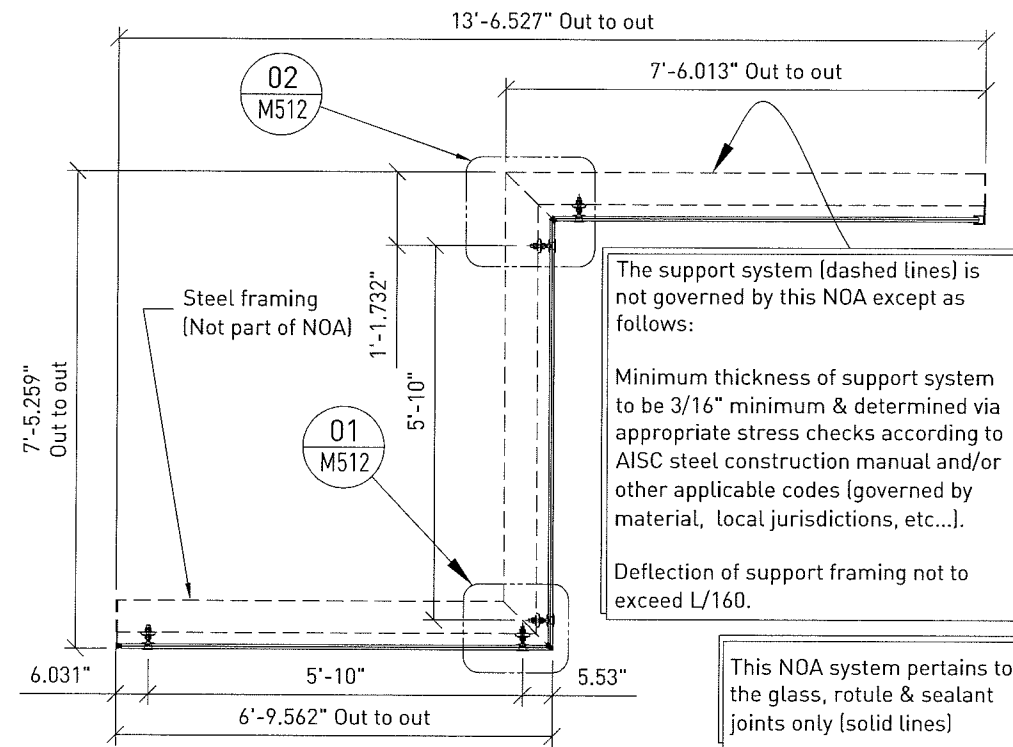
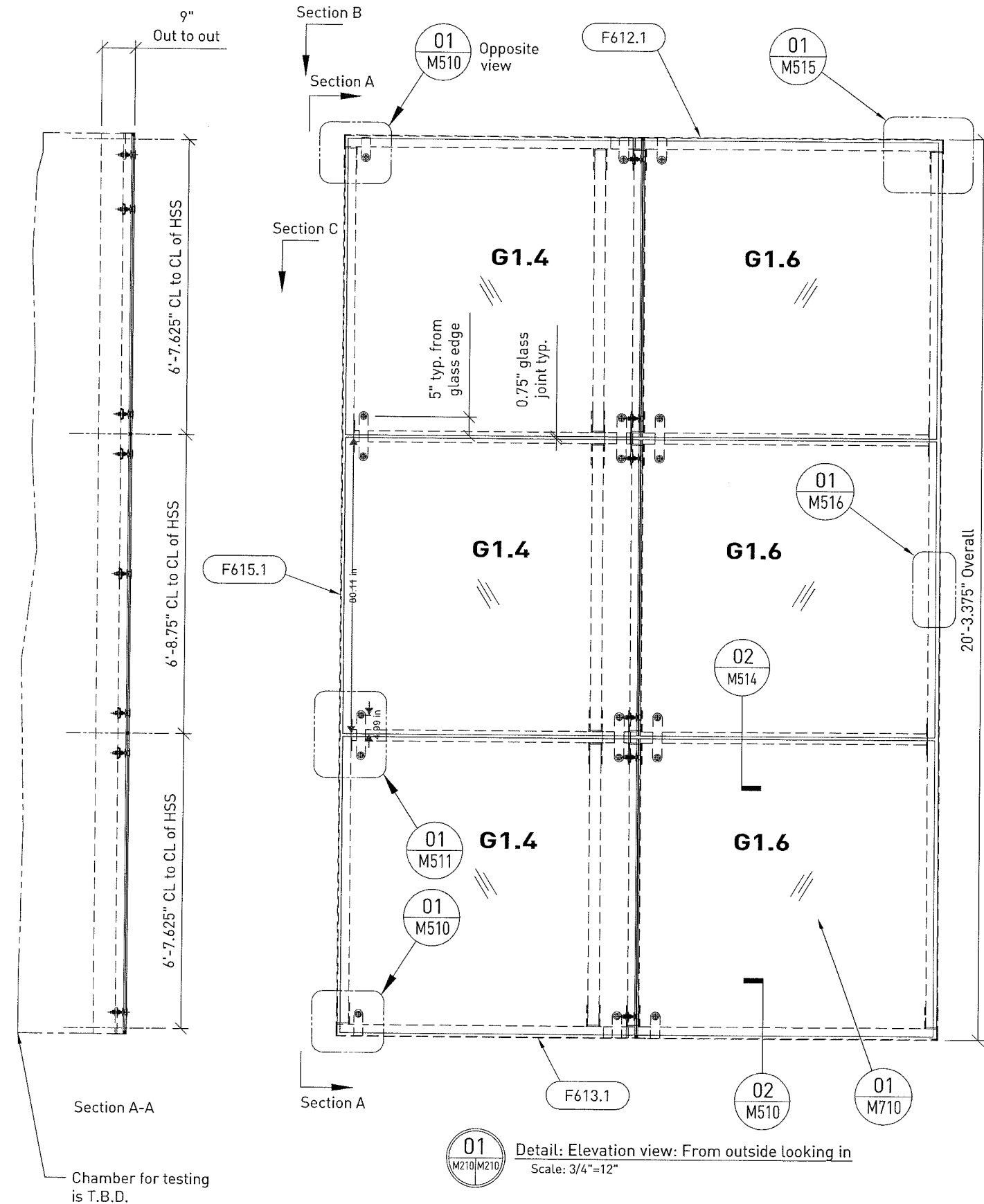
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SWK	SWK

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PROJECT NUMBER:
25-183

SHEET NUMBER:
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NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
PLAN AND ELEVATION VIEWS

DRAWN BY:	DATE:
BTH	02MAR10

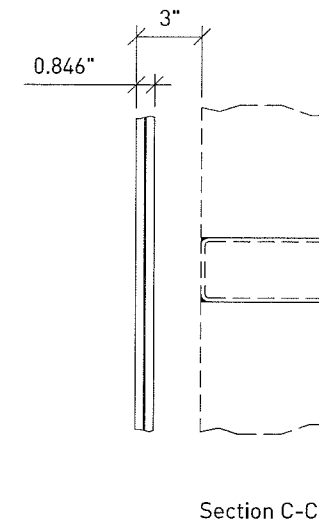
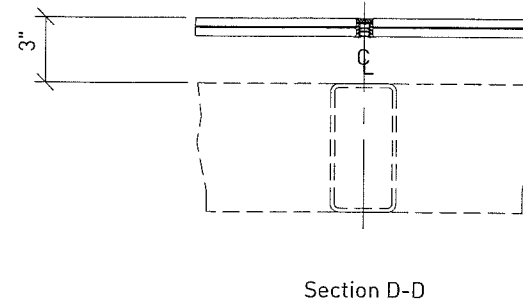
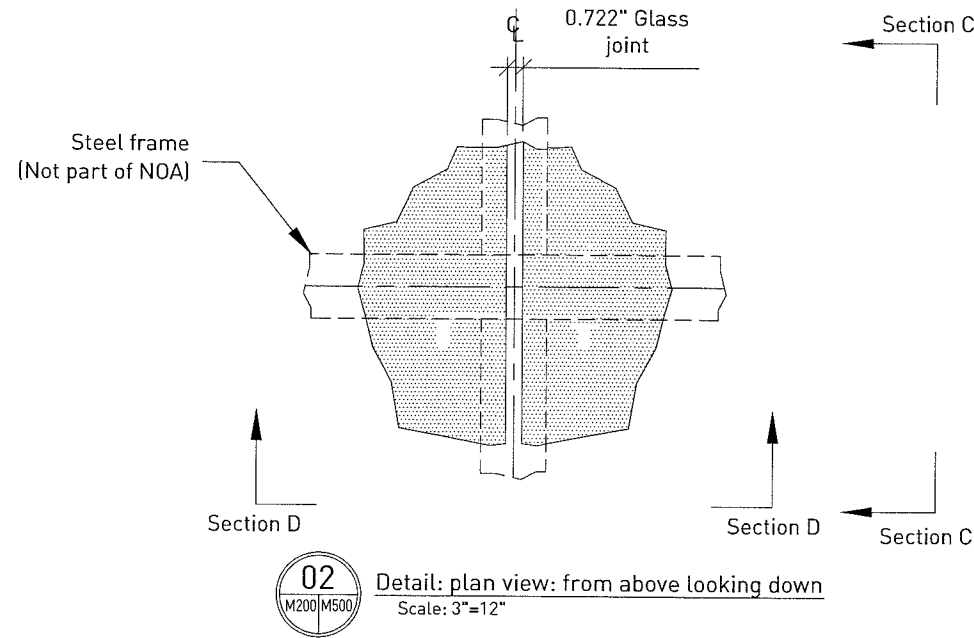
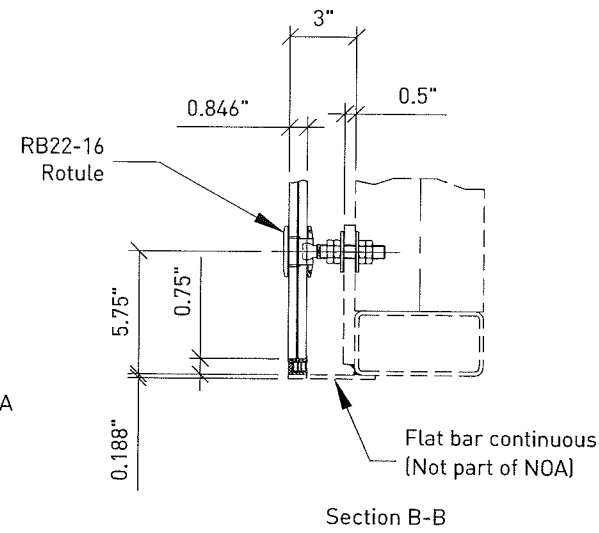
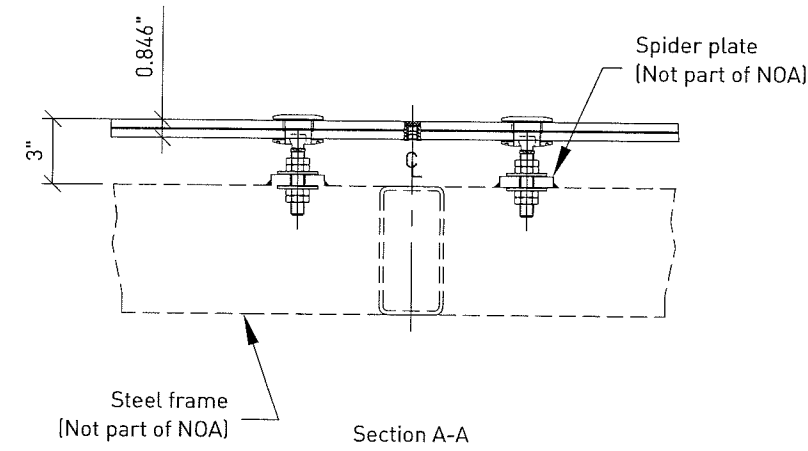
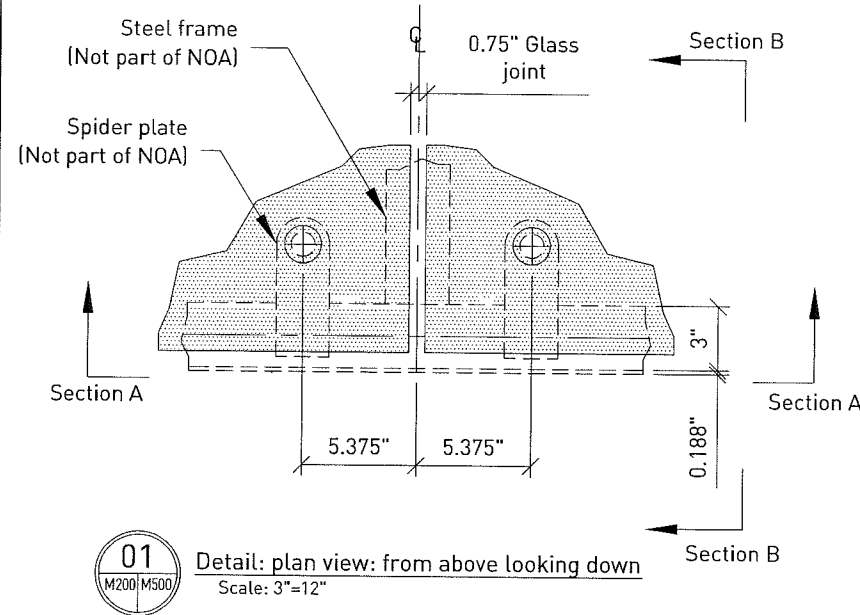
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SWK	SWK

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PROJECT NUMBER:
25-183

SHEET NUMBER:
MU210-1

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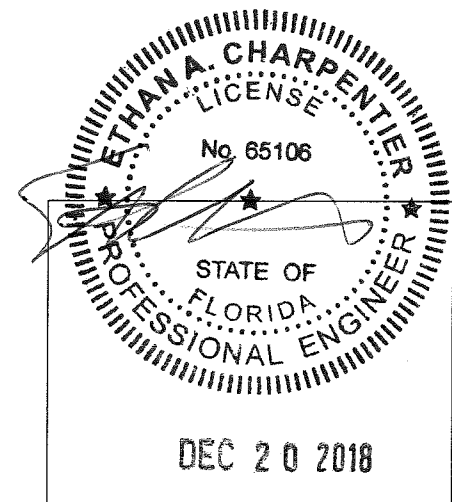
This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.

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Expiration Date Aug. 25, 2021
By Manuel Perez
Miami Dade Product Control



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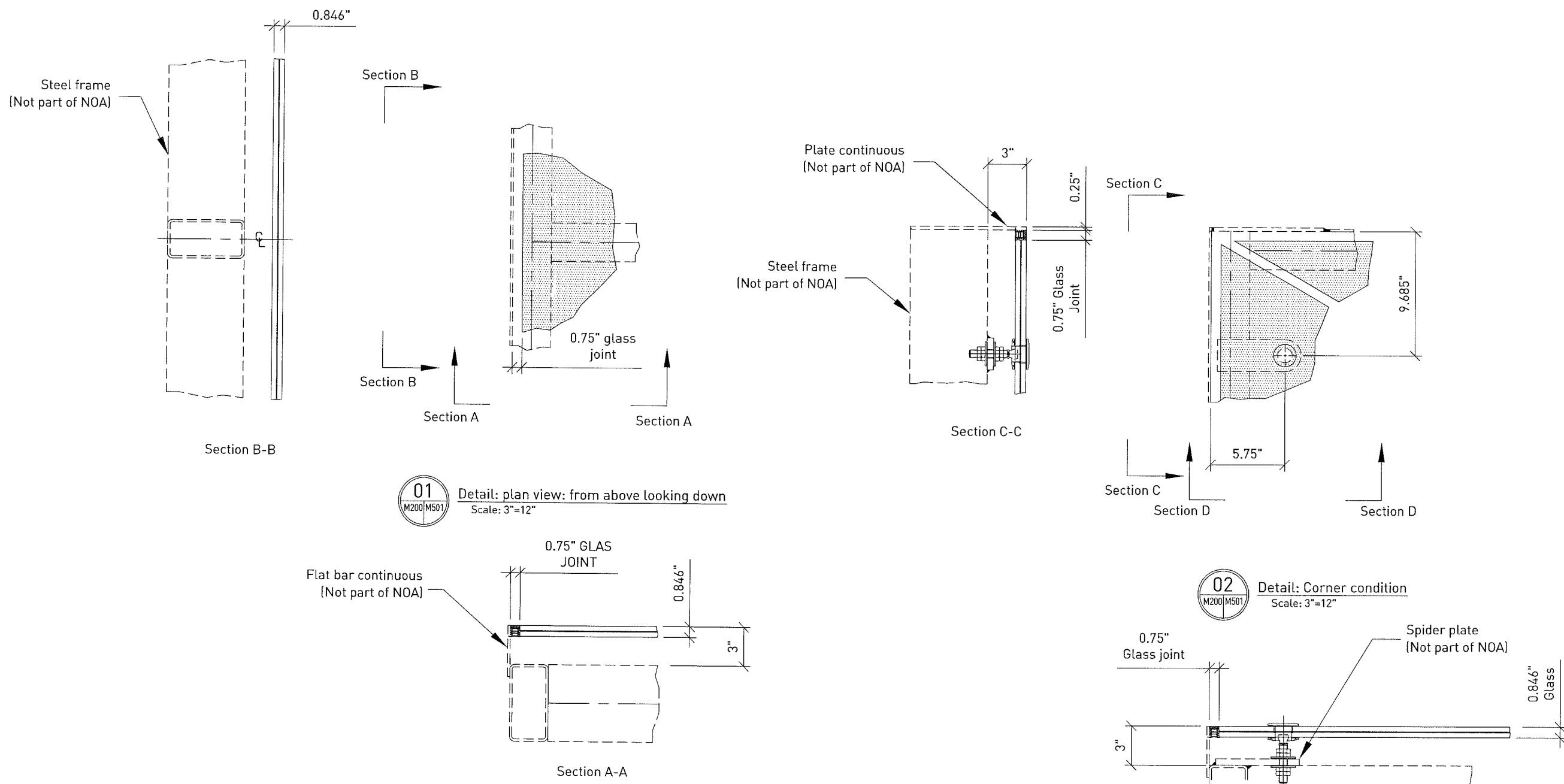
NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1
SECTION & DETAIL VIEWS

DRAWN BY: BTH DATE: 02MAR10
CHECKED BY: SWK APPROVED BY: SWK
SCALE: 3"=12" PROJECT MANAGER: GB
PROJECT NUMBER:
25-183
SHEET NUMBER:
MU500-1

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01 Detail: plan view: from above looking down
Scale: 3"=12"

02 Detail: Corner condition
Scale: 3"=12"

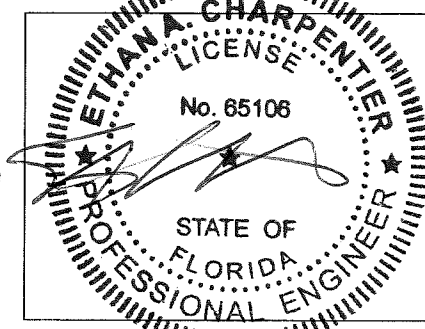
This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.

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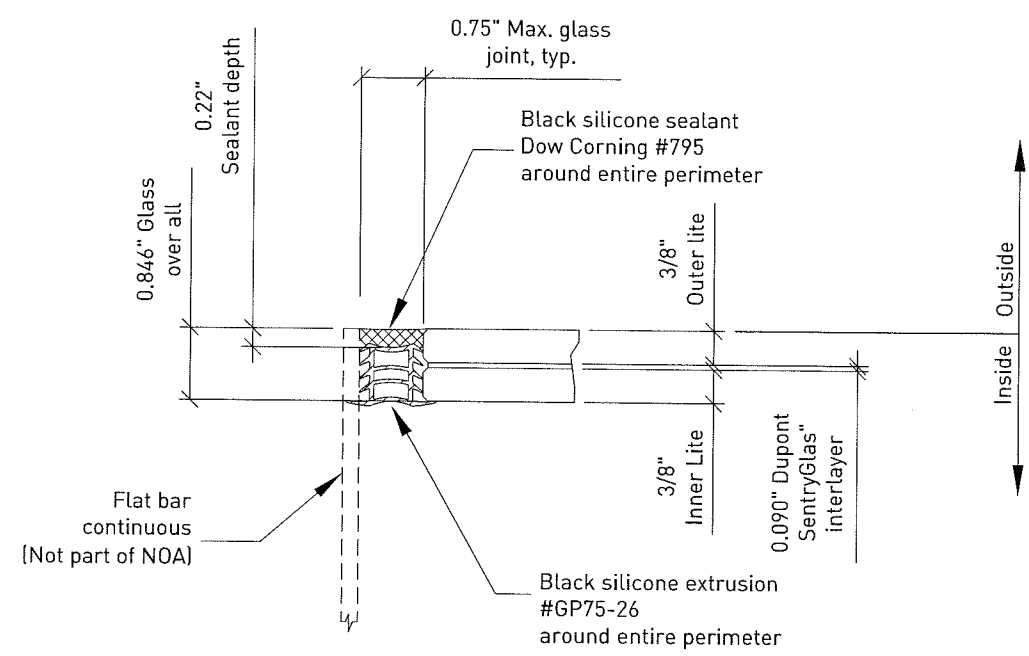
PROJECT:
NOVUM'S HURRICANE PS6
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1
SECTION & DETAIL VIEWS

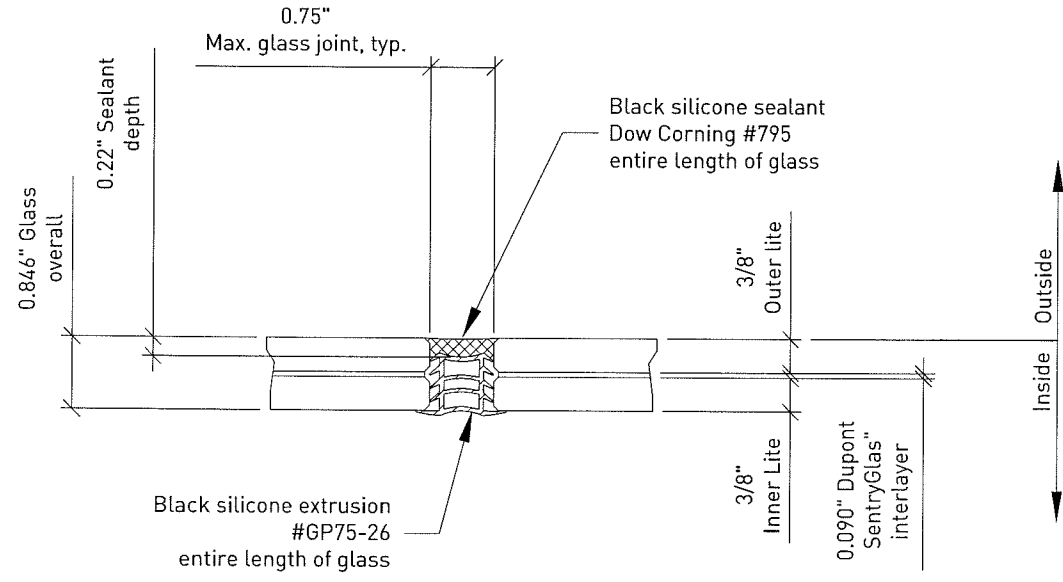
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CHECKED BY:	SWK	APPROVED BY:	SWK
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PROJECT NUMBER: 25-183			
SHEET NUMBER: MU501-1			

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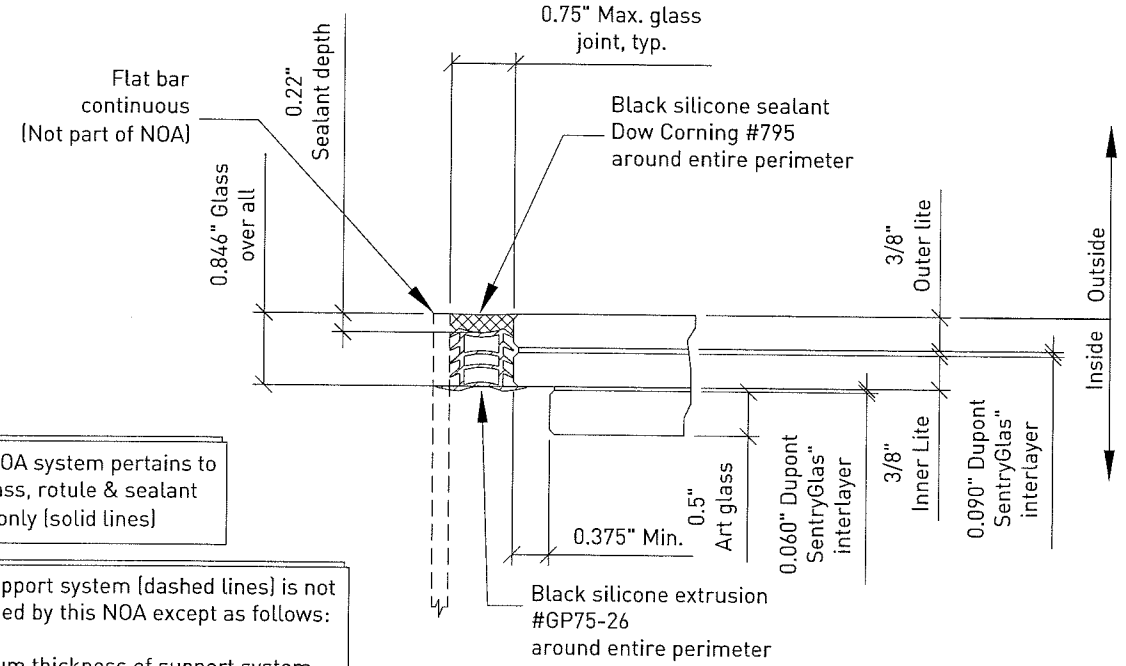
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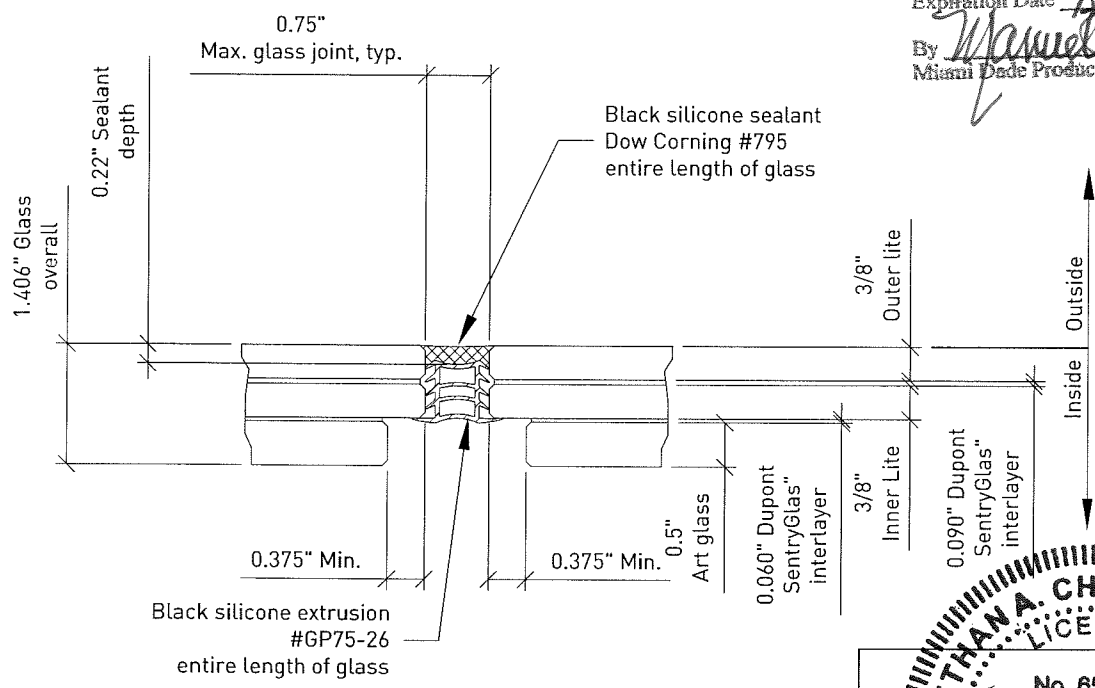
01 Detail: plan view: thru glass joint @ 3/8" + 3/8" glass
Scale: 6"=12"



02 Detail: plan view: thru glass joint @ 3/8" + 3/8" glass
Scale: 6"=12"



03 Detail: Sim to 01 above when using Art glass
Scale: 6"=12"



04 Detail: Sim to 02 above when using Art glass
Scale: 6"=12"

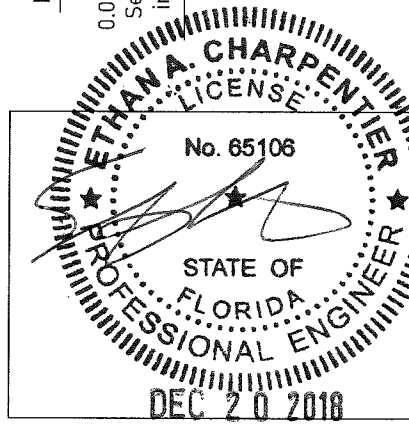
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Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.

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Expiration Date Aug. 25, 2021
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Registration No. 65106
ENGINEER STAMP

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NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM:HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1
GLASS JOINT DETAILS

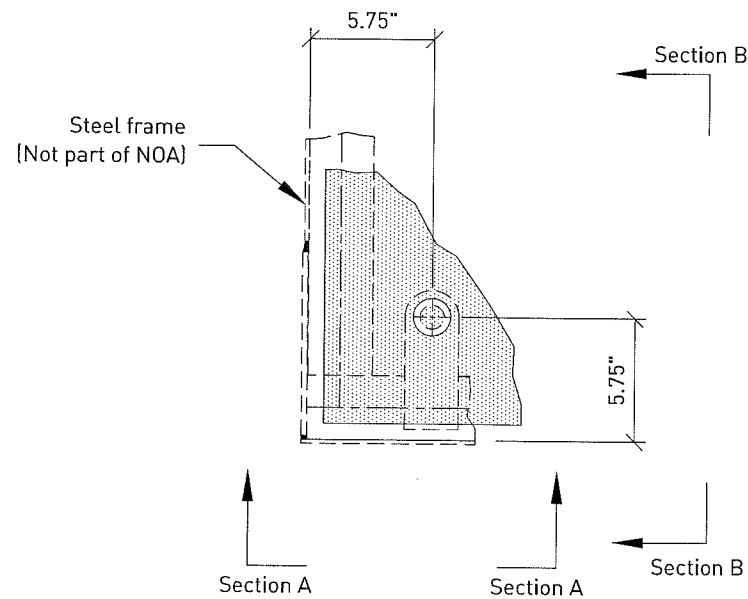
PREPARED BY:	DATE:
BTH	04MAR10

CHECKED BY:	APPROVED BY:
SWK	SWK

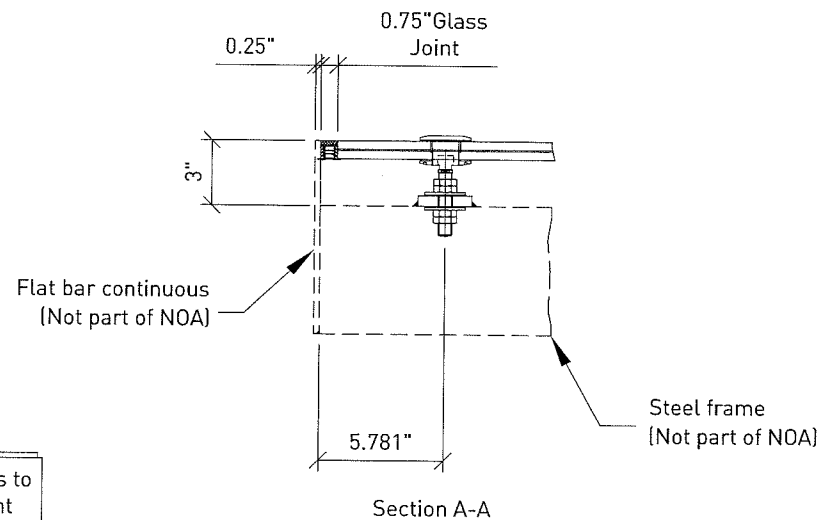
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FULL	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU502-1



Detail: Corner condition
Scale: 3"=12"

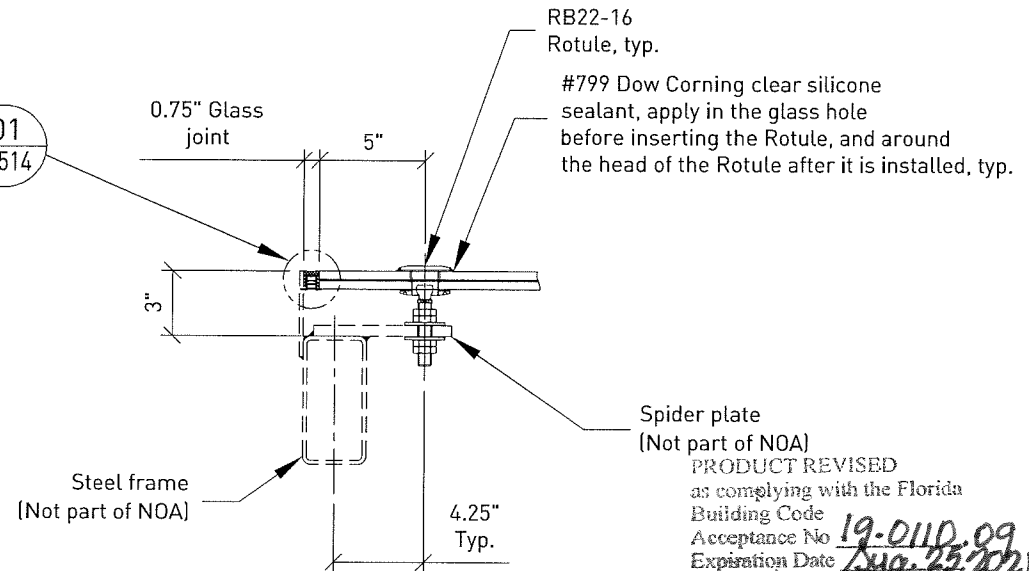
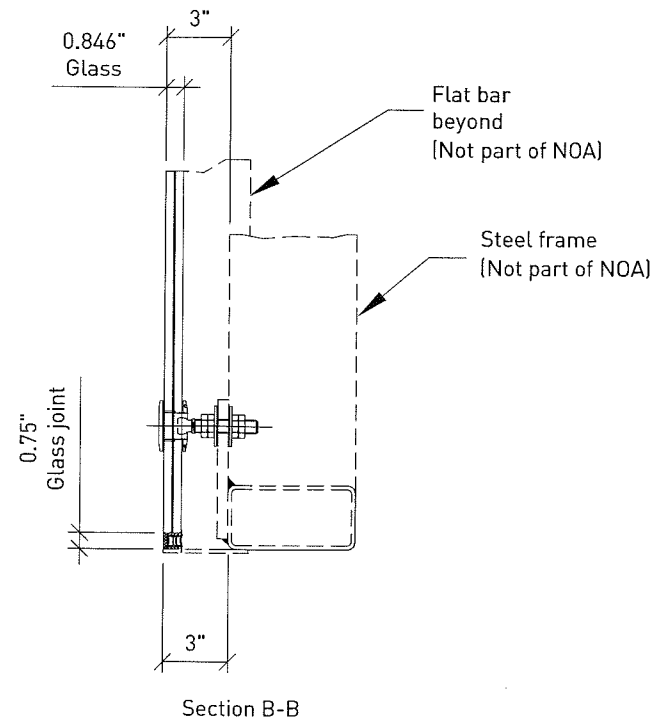


This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

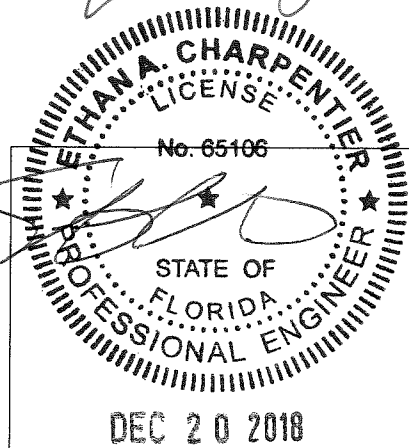
The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.



Section: Typical edge condition to spider arm
Scale: 3"=12"



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Certificate of Authorization #8803
Ethana A. Charpentier
Registration No. 65106
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APPROVAL STAMP:

NOVUM STAMP:

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CHK. BY		

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info@novumstructures.com

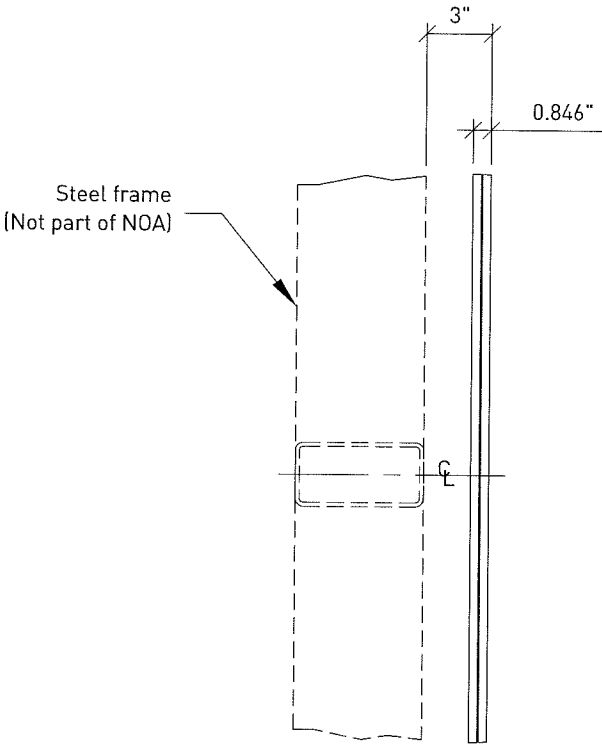
NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H001
VERTICAL WALL SYSTEM

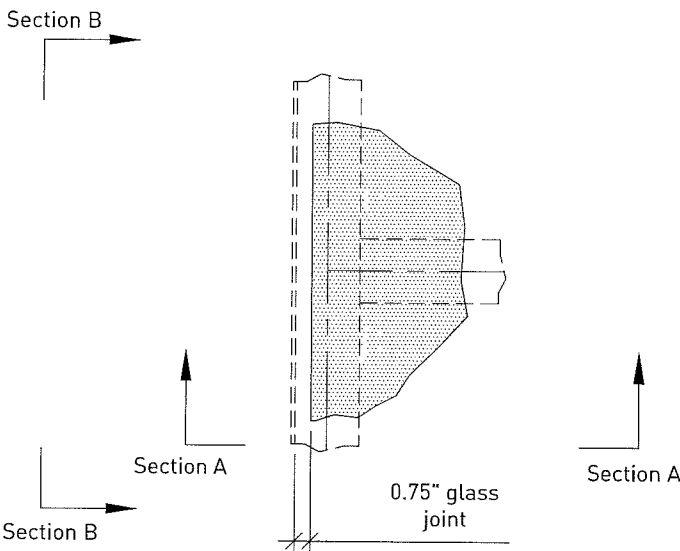
DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

DRAWN BY:	DATE:
BTH	02MAR10
CHECKED BY:	APPROVED BY:
SWK	SWK
SCALE:	PROJECT MANAGER:
3"=12"	GB
PROJECT NUMBER:	
25-183	
SHEET NUMBER:	
MU510-1	

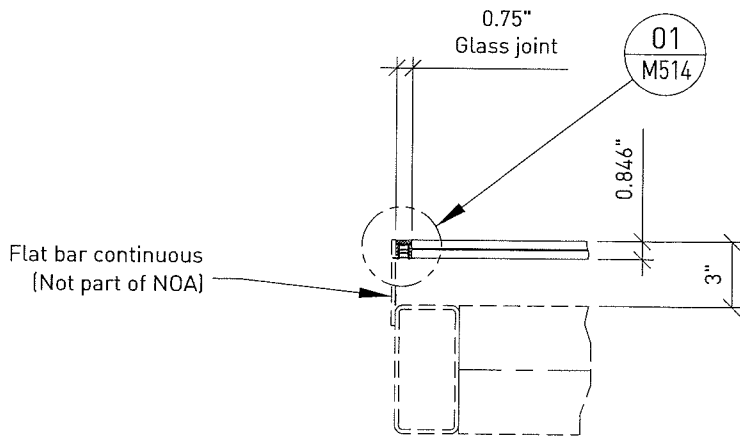
7/20/2015 3:05 PM \\NOVUM\LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014 FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU511.DWG



Section B-B



Detail: Typical edge connection
Scale: 3"=12"



Section A-A

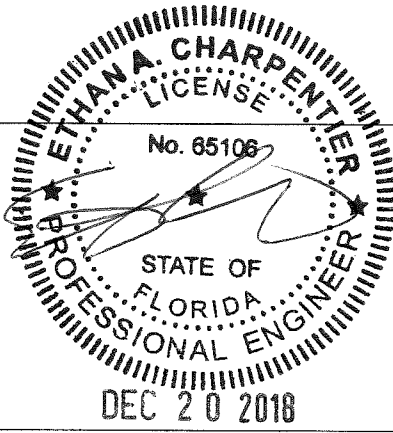
This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0110-09
Expiration Date Aug. 25, 2021
By Manuel Perez
Miami Dade Product Control



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APPROVAL STAMP

NOVUM STAMP

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1	23JUL11	BTH	SWK

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NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK- UP #2
SECTION & DETAIL VIEWS

DRAWN BY:	DATE:
BTH	02MAR10

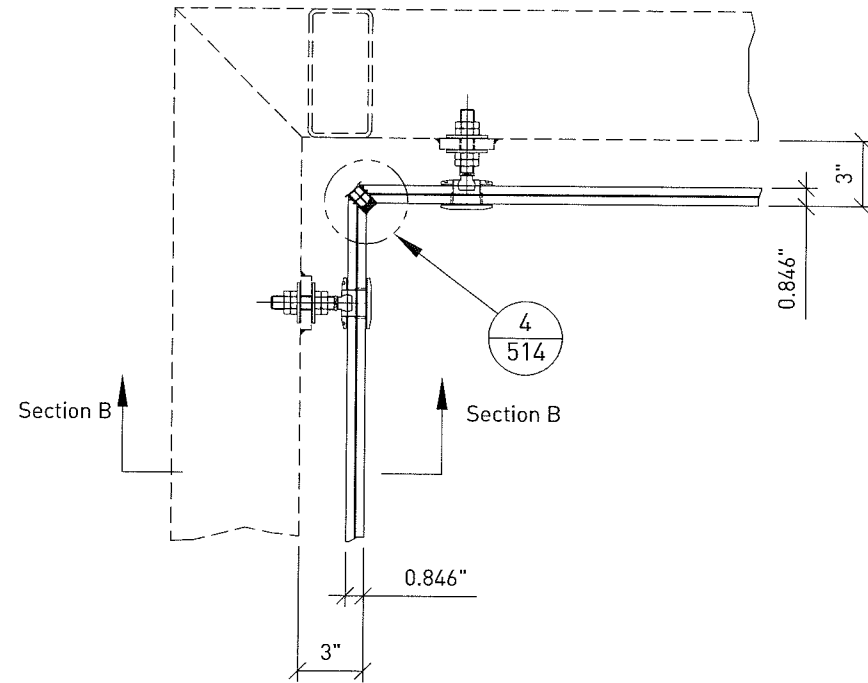
CHECKED BY:	APPROVED BY:
SWK	SWK

SCALE:	PROJECT MANAGER:
3"=12"	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU511-1

7/20/2015 3:04 PM \\NOVUM\LOCAL\INVENTORY\PSG\2101 CALOS & TESTS\FLORIDA TESTING\H601 RENEVAL FOR 2014 FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU512.DWG



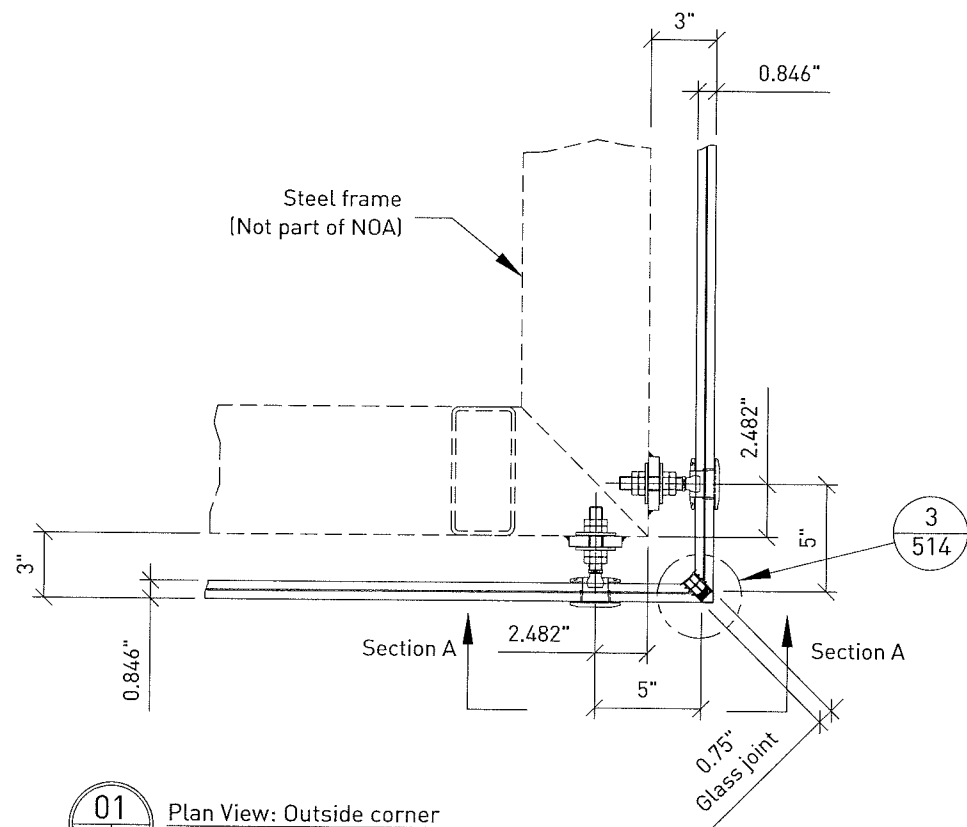
02 Plan View: Inside corner
Scale: 3"=12"

This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

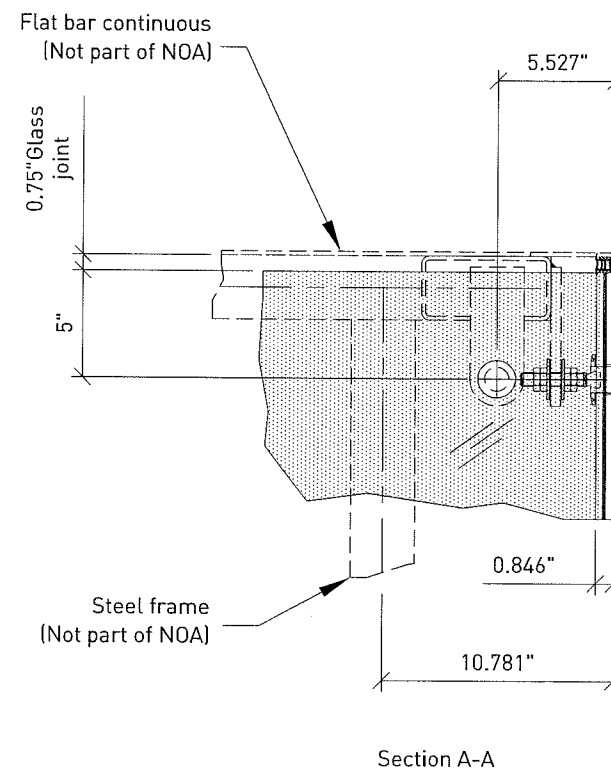
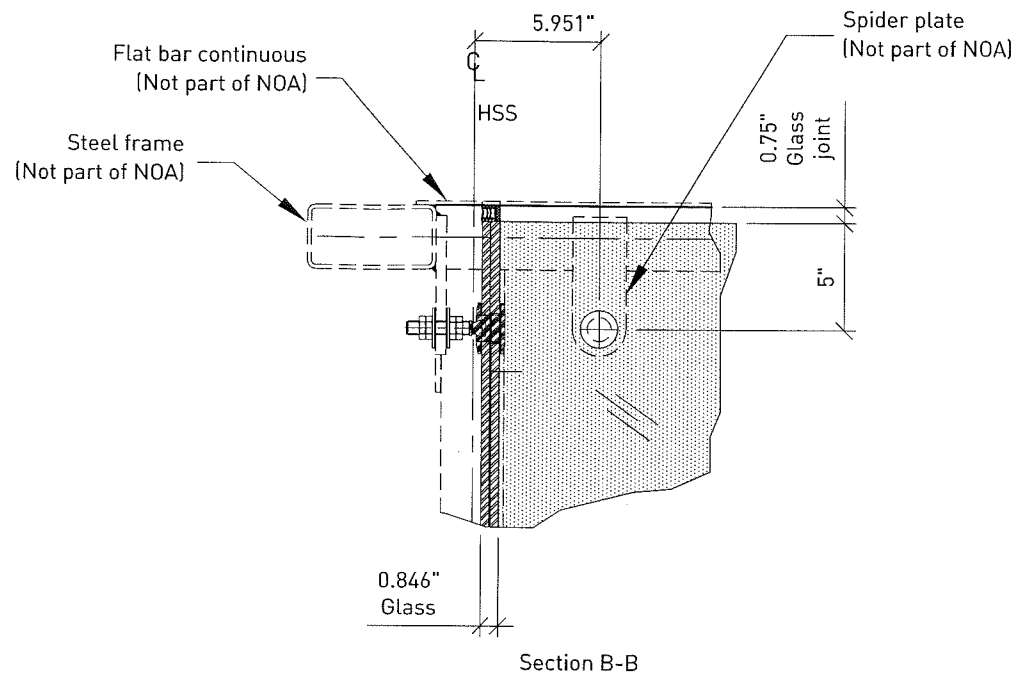
The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

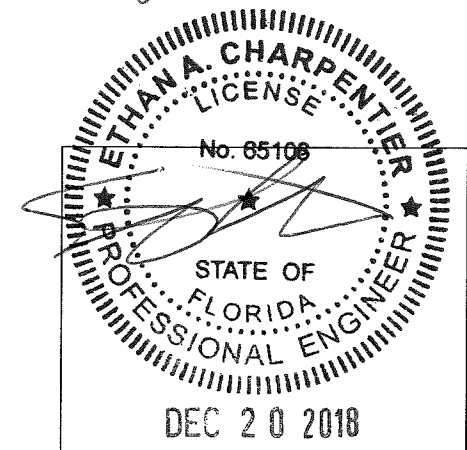
Deflection of support framing not to exceed L/160.



01 Plan View: Outside corner
Scale: 3"=12"



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Acceptance No. 19-0110-09
Expiration Date Aug. 25, 2021
By *Manuel Perez*
Miami Dade Product Control



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APPROVAL STAMP

NOVUM STAMP

23JUL11 BTH SWK
REVISED PER COMMENTS BY BOCO

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Menomonee Falls, WI 53051 USA
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www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H601
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

DATE	BY
02MAR10	BTH

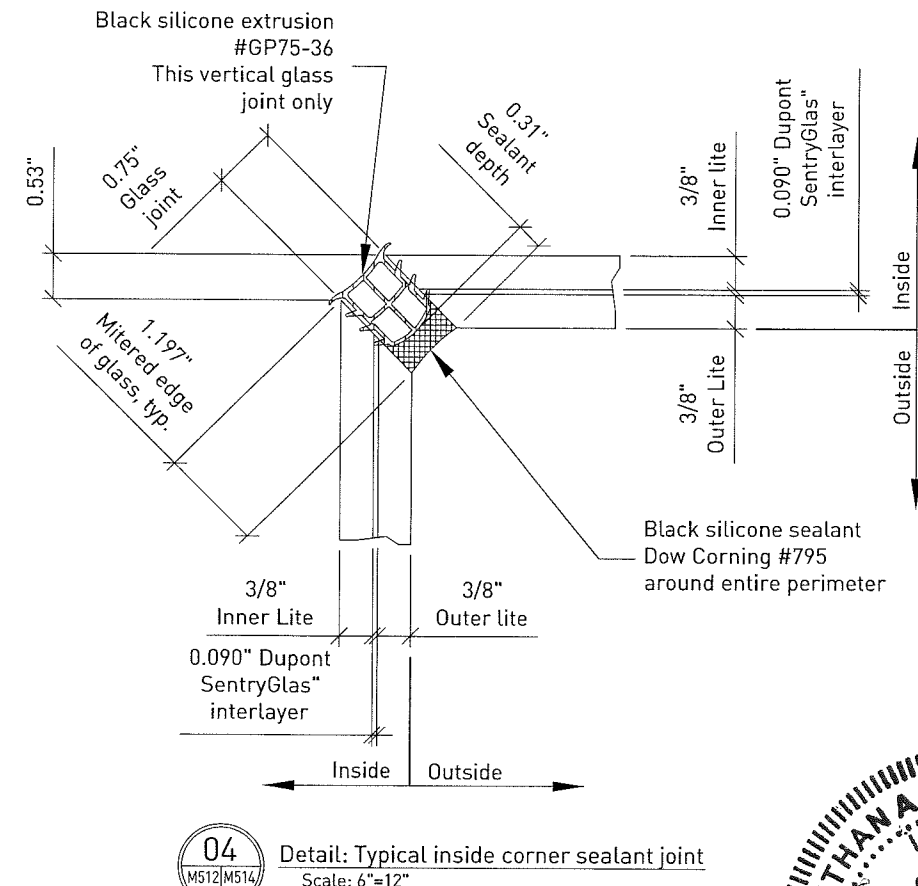
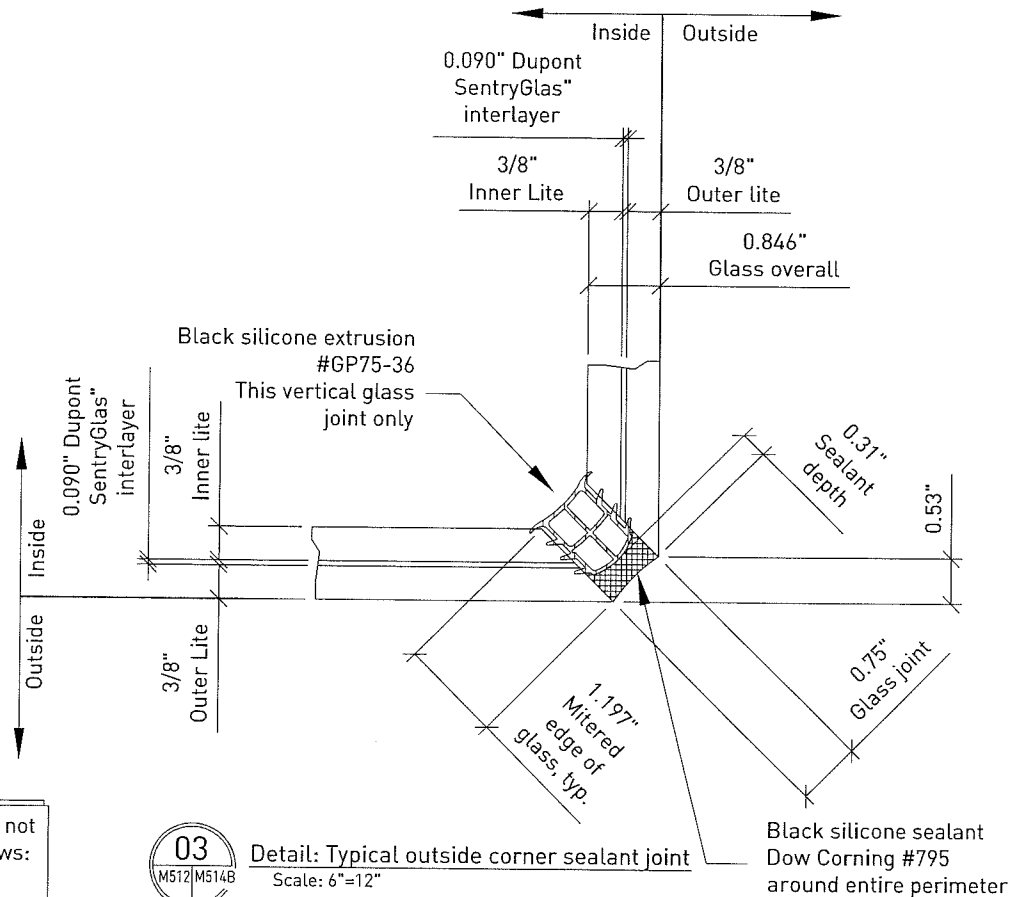
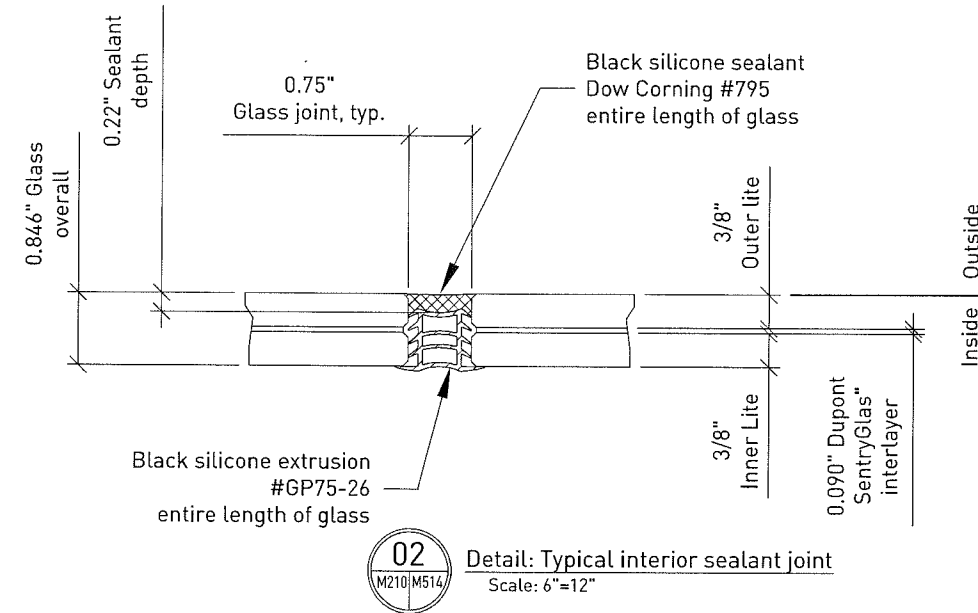
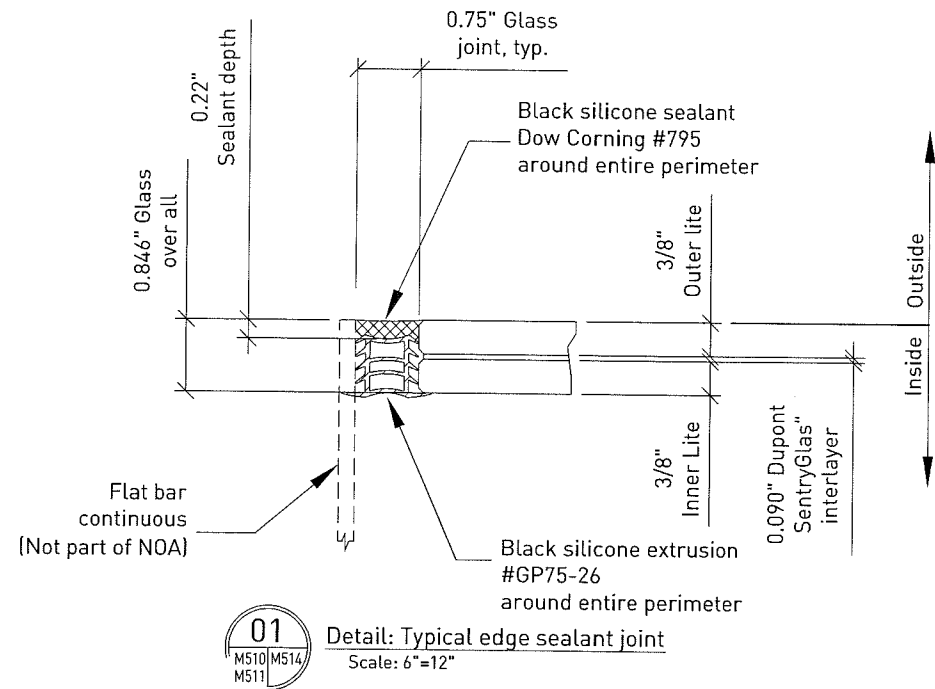
DATE	BY
	SWK

SCALE	PROJECT MANAGER
3"=12"	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU512-1

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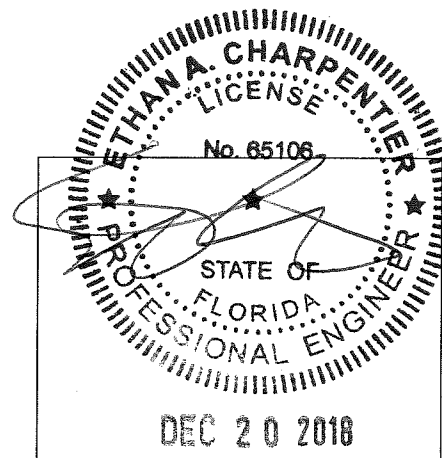
This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16 inch minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.

PRODUCT REVISED
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Acceptance No. 19-0110-09
Expiration Date Aug. 25, 2021
Manual
Manual Date Product Control



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Elton A. Charpentier
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APPROVAL STAMP

NOVUM STAMP

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info@novumstructures.com

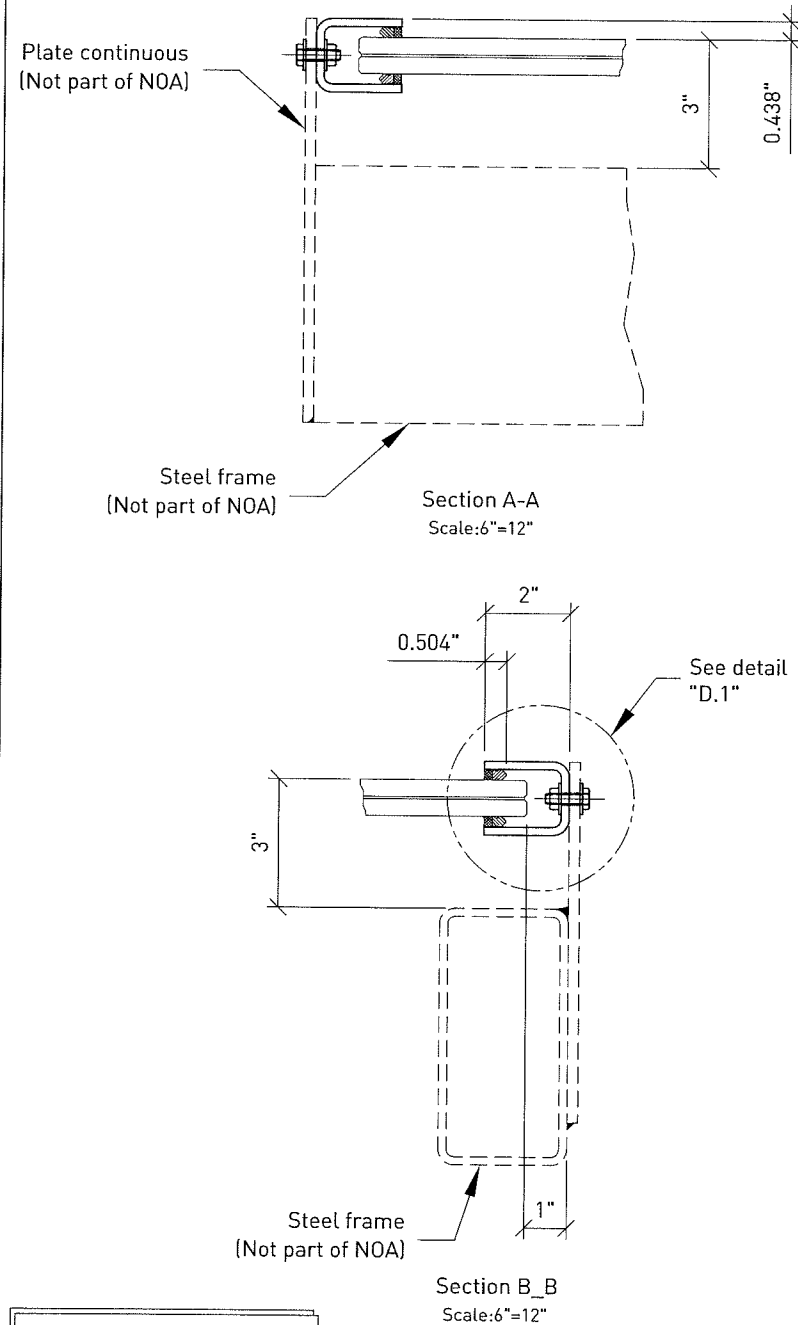
NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
GLASS JOINT DETAILS

DRAWN BY: BTH DATE: 04MAR10
CHECKED BY: SWK APPROVED BY: SWK
SCALE: FULL PROJECT MANAGER: GB
PROJECT NUMBER: 25-183
SHEET NUMBER: MU514-1

70oct2015 3:03 PM \\NOVUM.LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014 FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU515.DWG

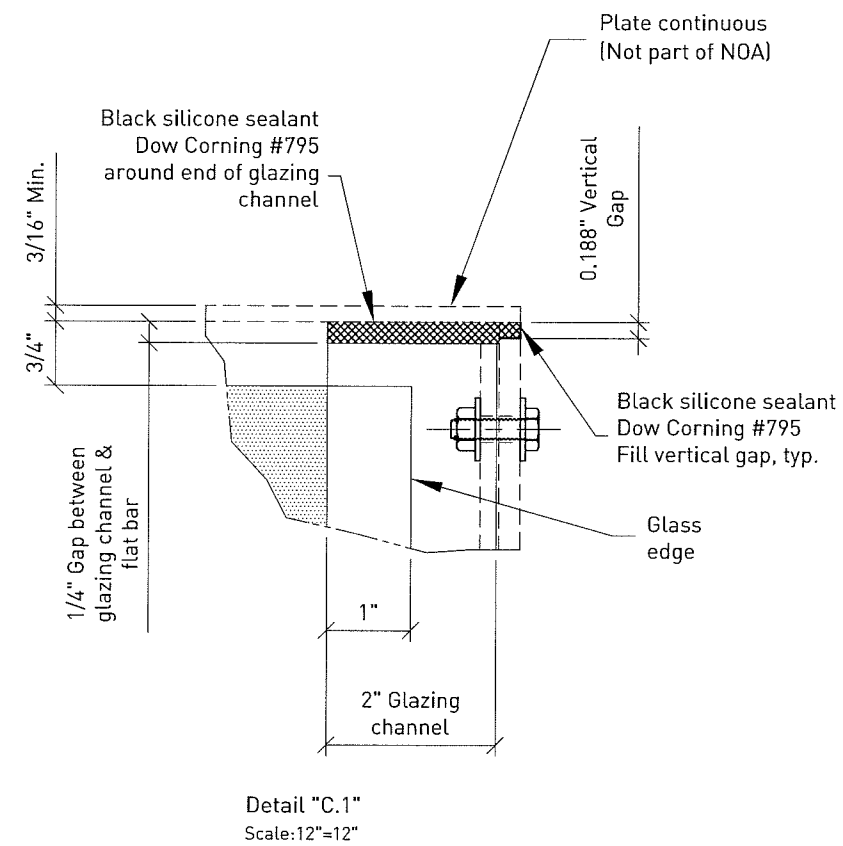
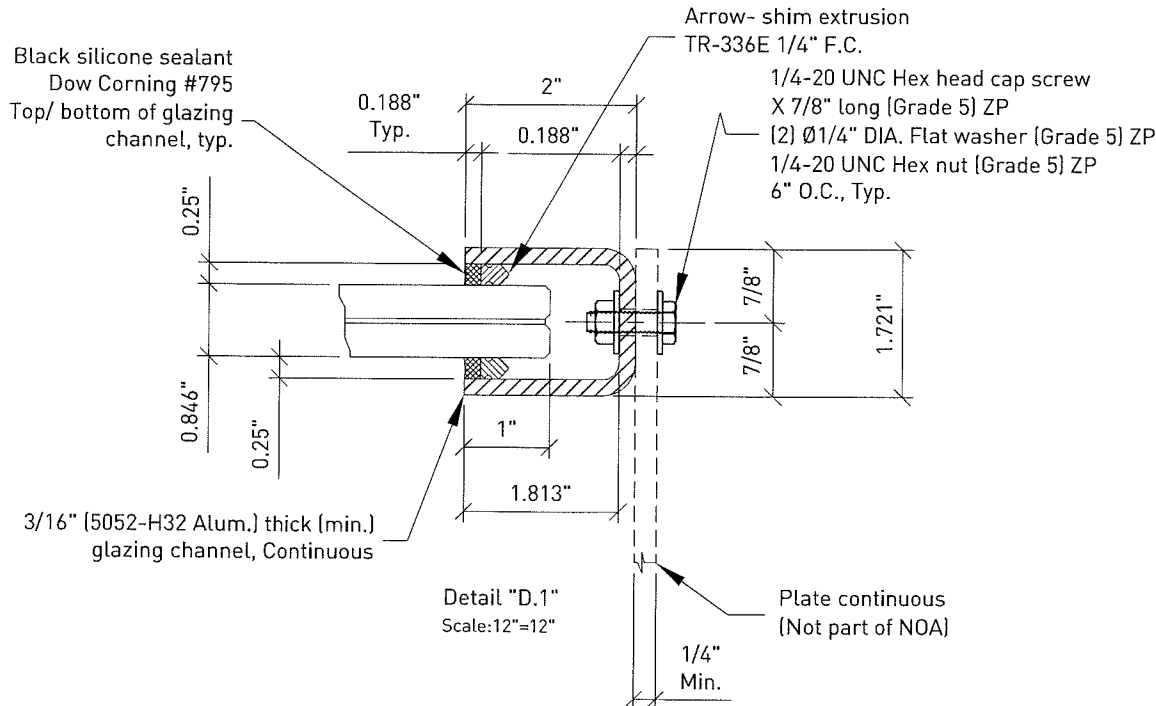
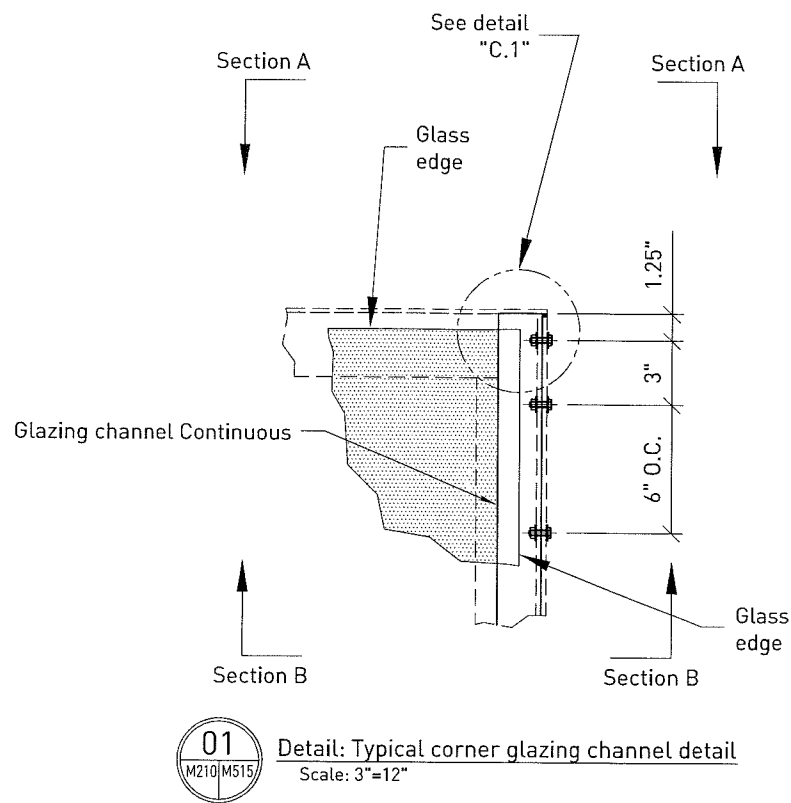


This NOA system pertains to the glass, rotule, glazing channel & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

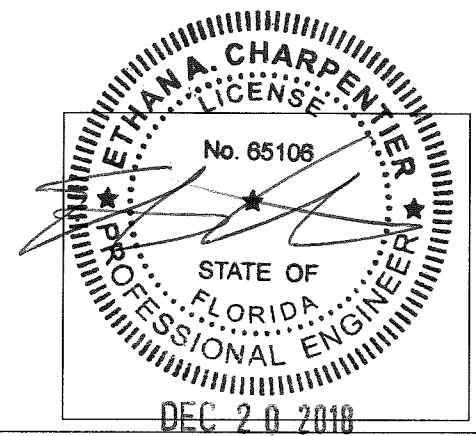
Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed L/160.



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By *Manuel Perez* Miami Dade Product Control



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Florida Firm No. F-02000005175
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Ethan A. Charpenter
Registration No. 65106

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APPROVAL STAMP:

NOVUM STAMP:

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Novum Structures LLC
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www.novumstructures.com
info@novumstructures.com

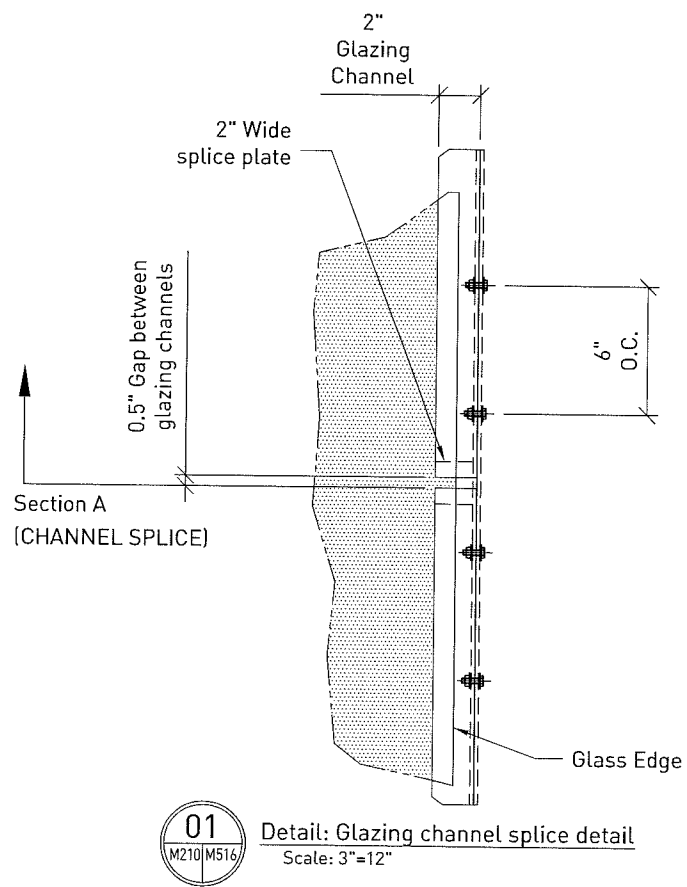
NOVUM

PROJECT:
NOVUM'S HURRICANE PS6
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK- UP #2
SECTION & DETAIL VIEWS

DRAWN BY:	BTH	DATE:	02MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	3"=12"	PROJECT MANAGER:	GB
PROJECT NUMBER: 25-183			
SHEET NUMBER: MU515-1			

7/20/2015 3:02 PM \\NOVUM.LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\H601 RENEWAL FOR 2014 FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU516.DWG



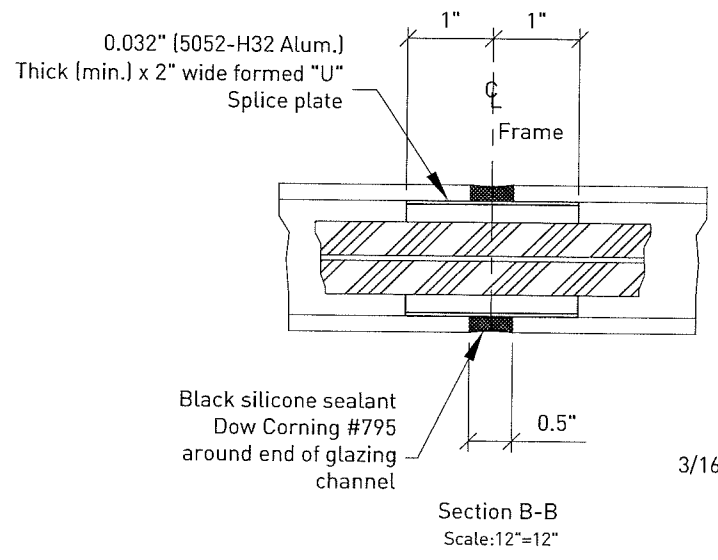
Detail: Glazing channel splice detail
Scale: 3"=12"

This NOA system pertains to the glass, rotule, glazing channel & sealant joints only (solid lines)

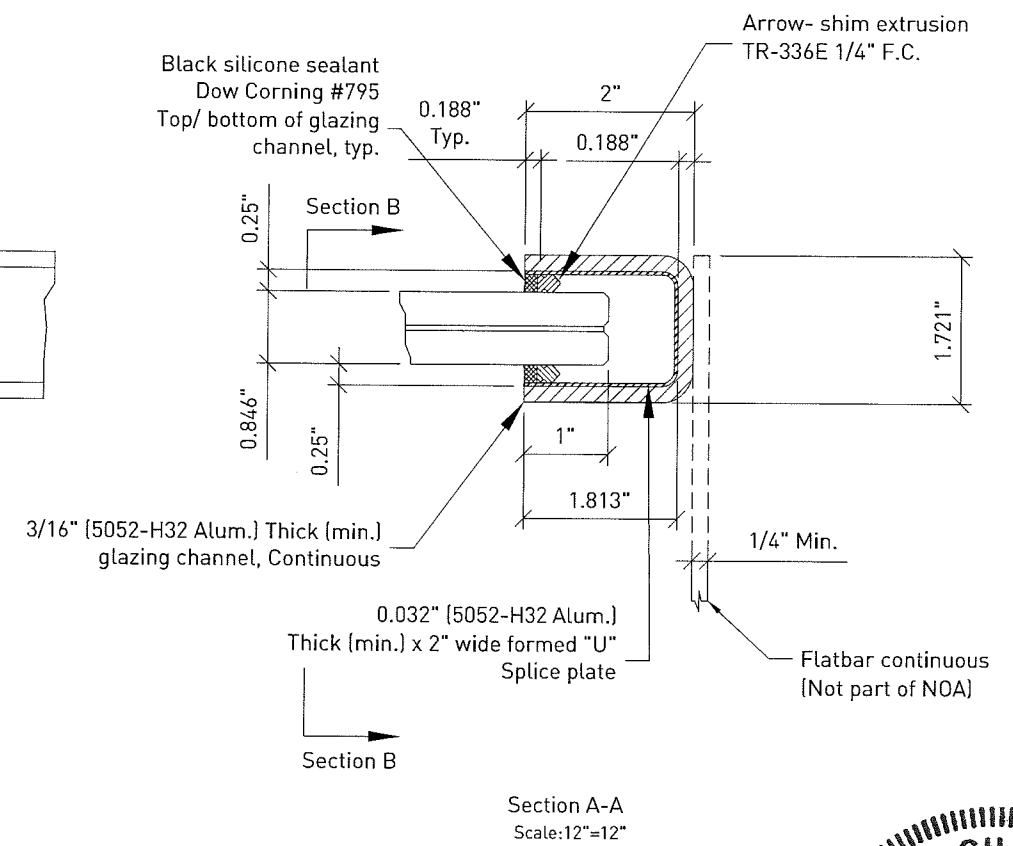
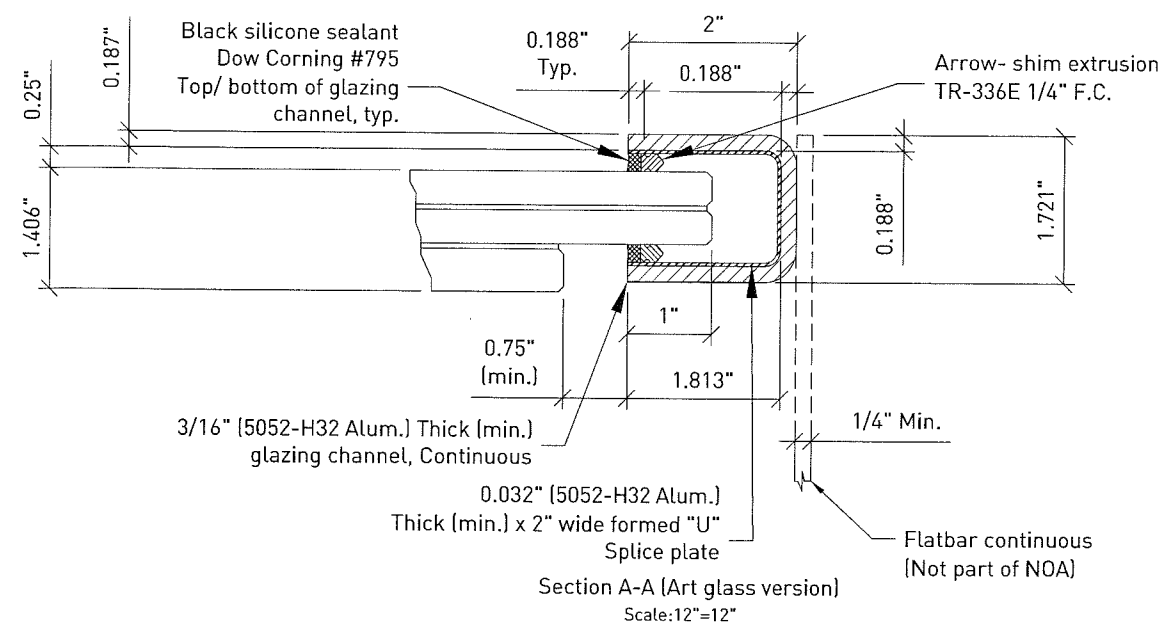
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Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

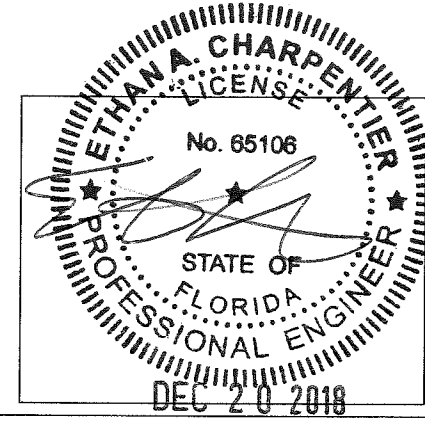
Deflection of support framing not to exceed L/160.



Section B-B
Scale: 12"=12"



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Expiration Date Aug-25-2021
By *Manuel Perez*
Miami Code Product Control



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REV. NO.	DATE	DWG. BY

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Menomonee Falls, WI 53051 USA
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NOVUM

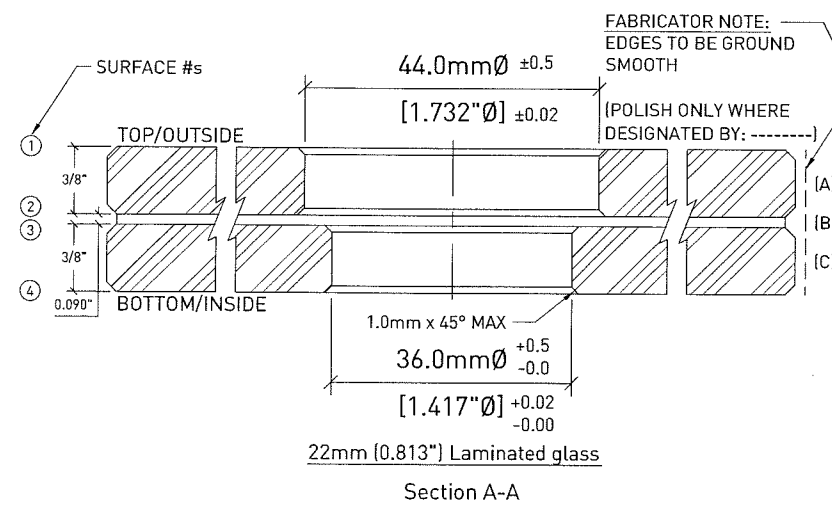
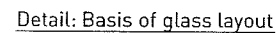
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: H601
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

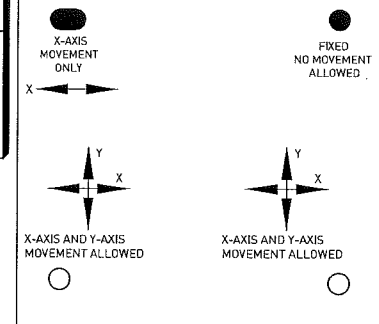
DRAWN BY:	DATE:
BTH	02MAR10
CHECKED BY:	APPROVED BY:
SWK	SWK
SCALE:	PROJECT MANAGER:
3"=12"	GB
PROJECT NUMBER:	
25-183	
SHEET NUMBER:	
MU516-1	



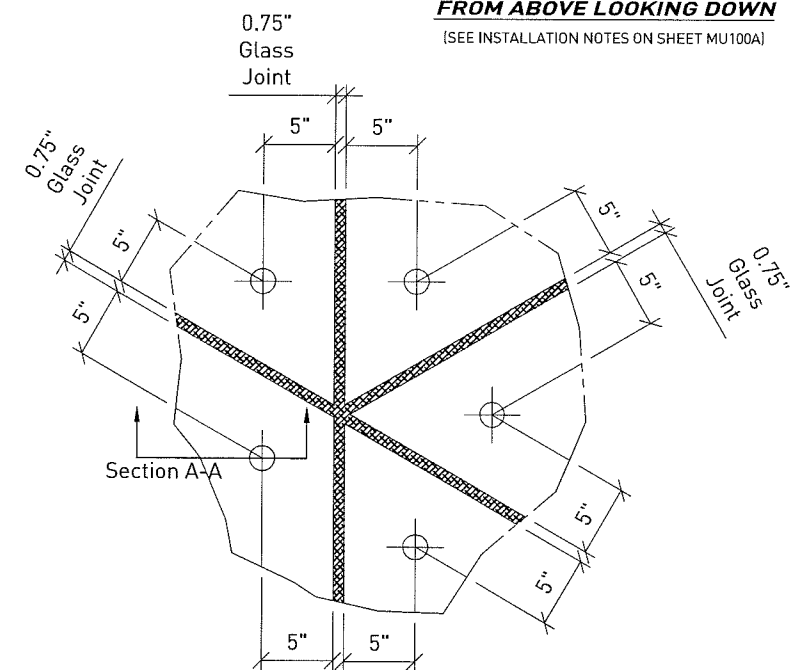
Glass layout and dimensions
Scale: 1"=12"



- SLOTTED HOLE IN SPIDER
- OVERSIZED HOLE IN SPIDER
- FIXED HOLE IN SPIDER

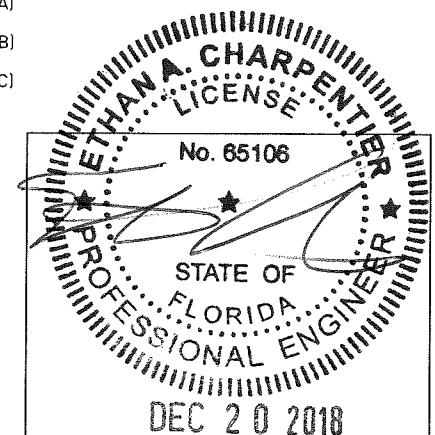


VIEW OF ONE GLASS PANE
FROM ABOVE LOOKING DOWN
(SEE INSTALLATION NOTES ON SHEET MU100A)



Detail: Basis of Center of Hole to edge of glass

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Acceptance No 19-0110.09
Expiration Date Aug. 23, 2021
By Manuel Perez
Miami/Dade Product Control



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Florida Firm No. F-02000005175
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Ethan A. Charpentier
Registration No. 65106
ENGINEER STAMP:

APPROVAL STAMP:

NOYUM STAMP:

1	23JUL11	BTH	SWK
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REV.NO.	DATE	DWG.BY	CHK.BY
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Menomonee Falls, WI 53051 USA
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www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM 'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1
GLASS LAYOUT &
DIMENSIONS

RAISED BY:	DATE:
BTH	02MAR10

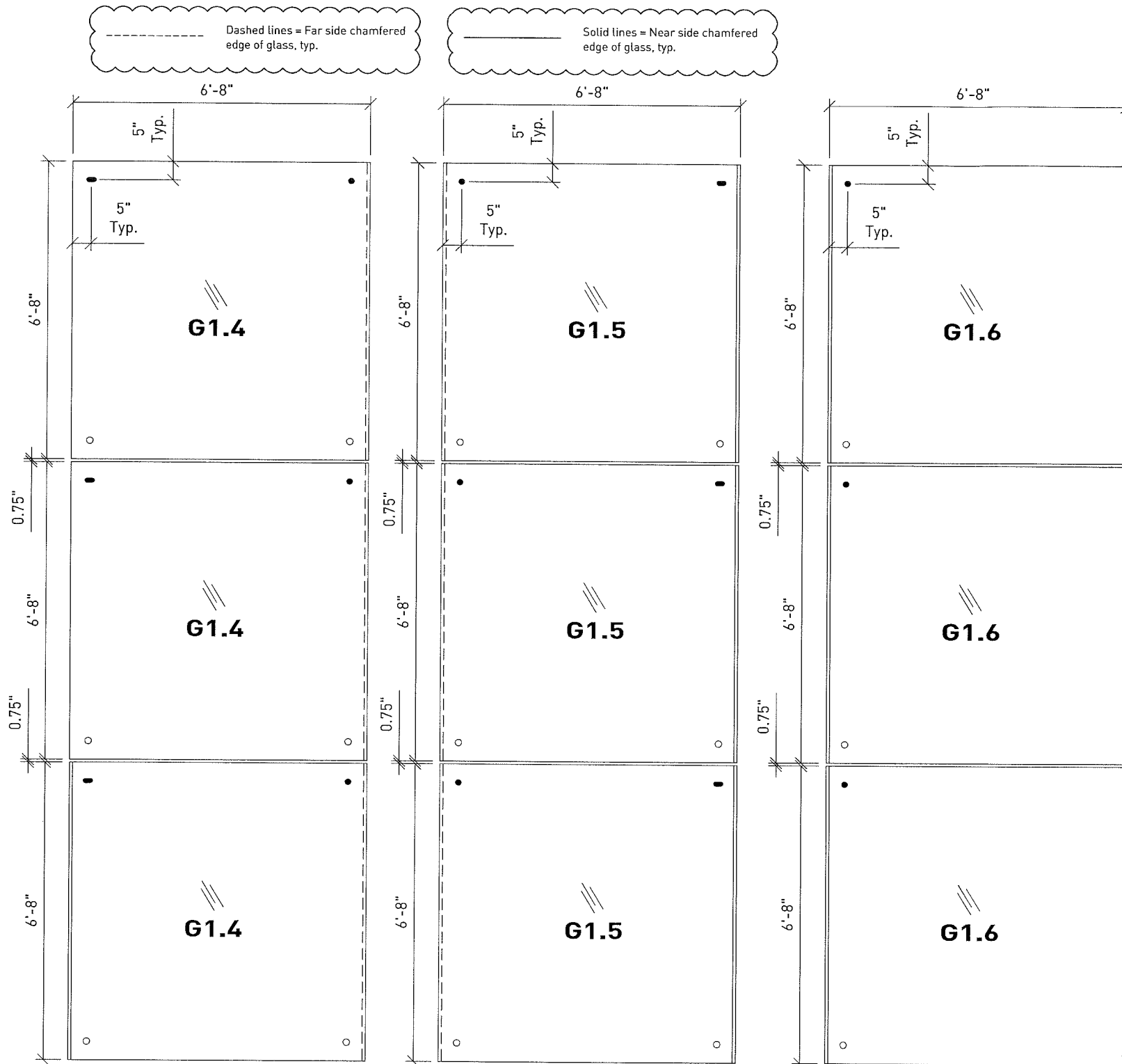
CHECKED BY: SWK	APPROVED BY: SWK
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SCALE: 1"=12"	PROJECT MANAGER: GB
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PROJECT NUMBER:	25 182
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SHEET NUMBER:
ML1700 1

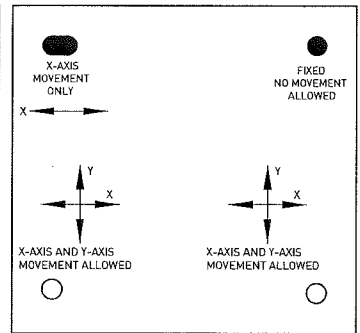
7/20/2015 3:10 PM \\NOVUM.LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014\FBC\AUTOCAD DRAWINGS\VERTICAL WALL\MU710.DWG



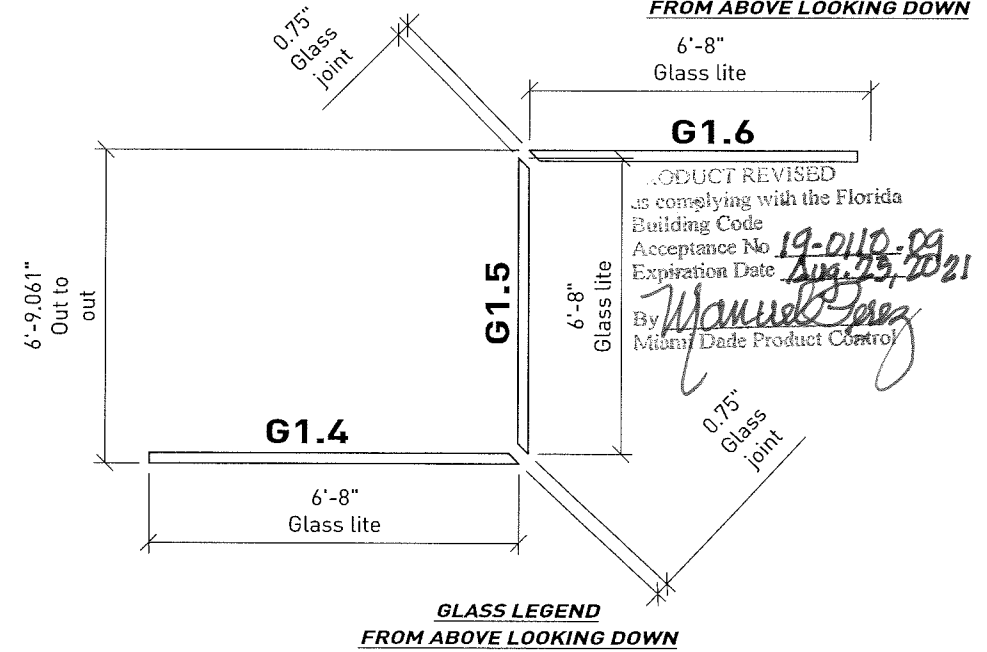
01 Glass layout and dimensions
Scale: 3/4"=12"

SYMBOL KEY

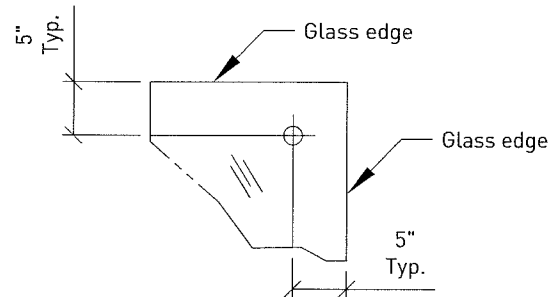
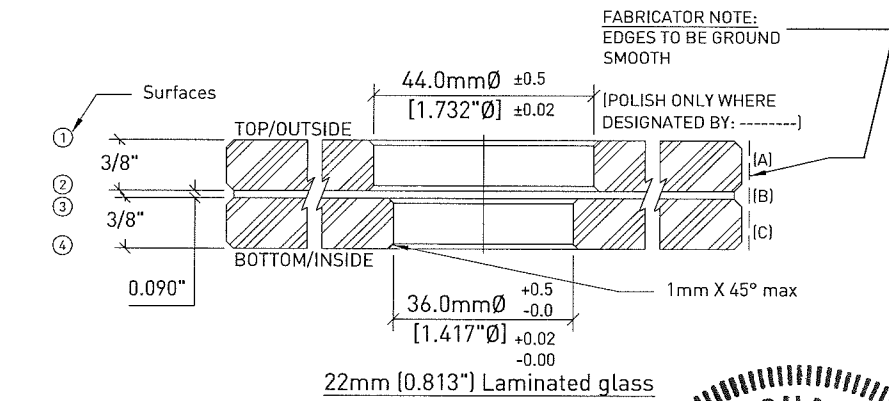
- SLOTTED HOLE IN SPIDER
- OVERSIZED HOLE IN SPIDER
- FIXED HOLE IN SPIDER



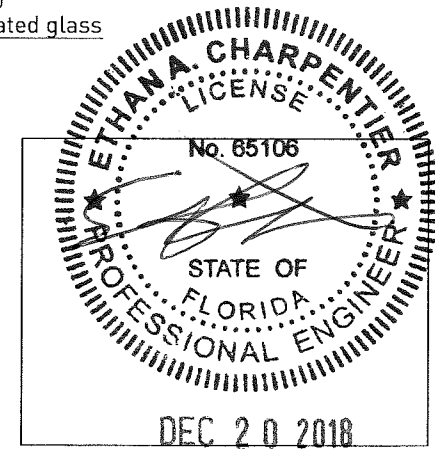
VIEW OF ONE GLASS PANE FROM ABOVE LOOKING DOWN



GLASS LEGEND FROM ABOVE LOOKING DOWN



Detail: Basis of Center of Hole to edge of glass



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Ethana A. Charpentier
Registration No. 65106
ENGINEER STAMP

APPROVAL STAMP:

NOVUM STAMP:

23JUL11 BTH SWK

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Menomonee Falls, WI 53051 USA
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www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PS6
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
GLASS LAYOUT &
DIMENSIONS

DRAWN BY: BTH DATE: 02MAR10

CHECKED BY: SWK APPROVED BY: SWK

SCALE: 3/4"=12" PROJECT MANAGER: GB

PROJECT NUMBER: 25-183

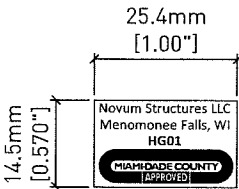
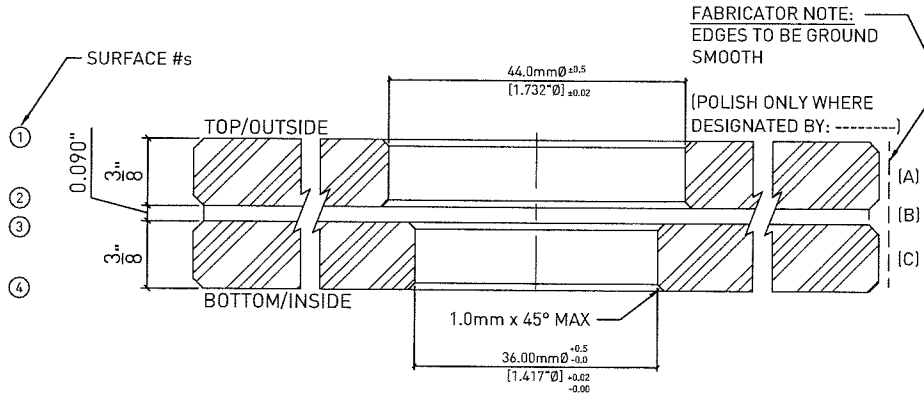
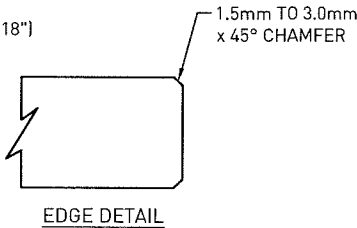
SHEET NUMBER: MU710-1

GLASS SPECIFICATION:

- (A:) 3/8" CLEAR OUTER LITE - FULLY TEMPERED
(B:) 0.090" CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc. Per NOA NO. 14-0916.11
(C:) 3/8" CLEAR INNER LITE - FULLY TEMPERED
ALL GLASS PANELS WITH CHAMFERED AND GROUND EDGES AND (3) THREE OR (4) FOUR DRILLED HOLES

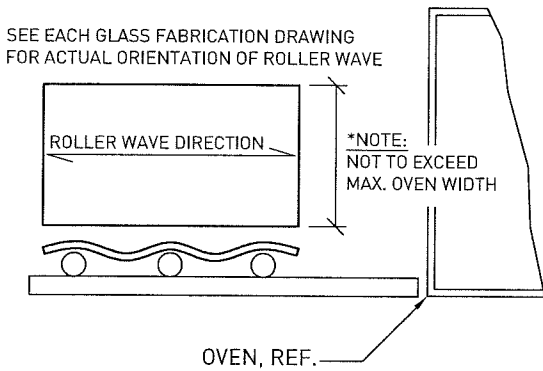
TOLERANCES:

- ±1.5mm (±0.06") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS LESS THAN 1500mm (59")
±2.0mm (±0.08") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS BETWEEN 1500mm (59") AND 3000mm (118")
±2.0mm (±0.08") FOR DIAGONALS FOR GLASS DIMENSIONS LESS THAN 1500mm (59")
±3.0mm (±0.12") FOR DIAGONALS FOR GLASS DIMENSIONS BETWEEN 1500mm (59") AND 3000mm (118")
TOTAL LAMINATED GLASS THICKNESS: ±0.5mm (±0.02")
LAMINATION ALIGNMENT: ±1.5mm (±0.06")
LOCATION OF HOLES: ±2.0mm (±0.08")
(INCLUSIVE OF ALL OTHER LAMINATION AND DIMENSIONAL TOLERANCES)
REFER TO NOVUM MANUFACTURING SPECIFICATION NS105 FOR TOLERANCE AND MANUFACTURING REQUIREMENTS



PLACEMENT OF NOVUM NOA LABEL JUST ABOVE TEMPERING NOTE (SEE ABOVE FOR ACTUAL NOTE, TEXT, AND DIMENSION)

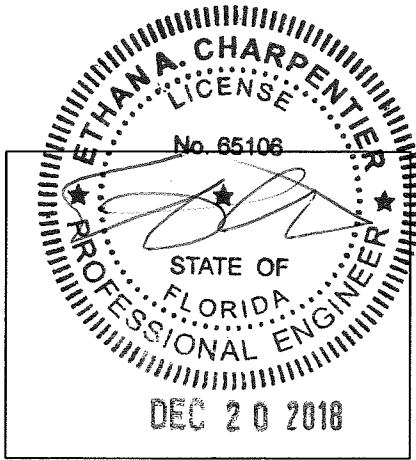
21.5mm [0.846"] LAMINATED GLASS



GLASS PANELS SEEN FROM ABOVE/ OUTSIDE

NOTE: PLEASE MAKE SURE PLACEMENT OF TEMPERING NOTE SHALL BE VISIBLE AND WILL NOT INTERFERE WITH THE LAMINATION PROCESS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0110-P9
Expiration Date Aug 25, 2021
By *Manuel*
Miami Dade Product Control



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Florida Firm No. F-0200005175
Certificate of Authorization #0453
Ethan A. Charpentier
Registration No. 65106
ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

22JUL11	BTH	SWK	
REVISED PER COMMENTS BY BCCD			
REV.NO.	DATE	DWG.BY	CHK.BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
GLASS MAKE- UP SHEET

DRAWN BY:	DATE:
BTH	22JUL11
CHECKED BY:	APPROVED BY:
SWK	SWK
SCALE:	PROJECT MANAGER:
NONE	GB
PROJECT NUMBER: 25-183	
SHEET NUMBER: MU800-1	

19oct2016 2:18 PM I:\PSG\2101 CALCS & TESTS\FLORIDA TESTING\H001 RENEWAL FOR 2014 FB\AUTOCAD DRAWINGS\VERTICAL WALL\MU801.DWG

GLASS SPECIFICATION:

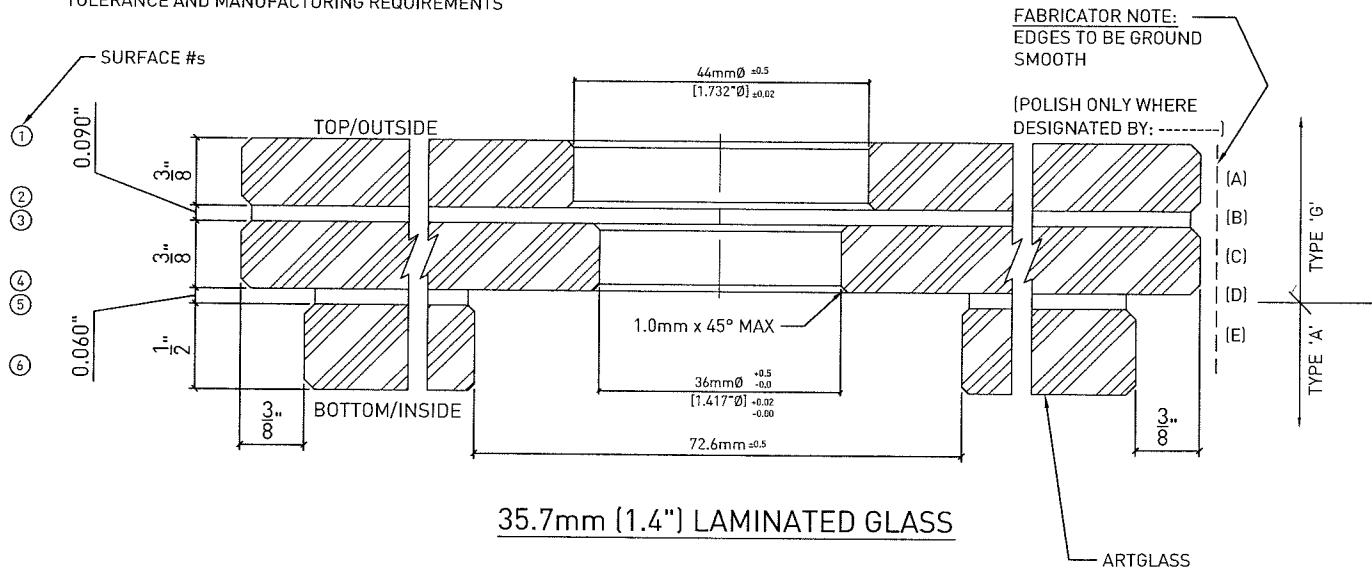
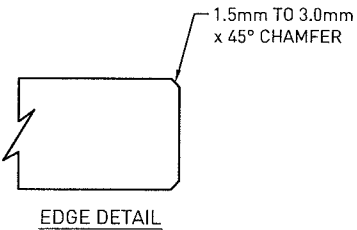
- [A:] 3/8" CLEAR OUTER LITE - FULLY TEMPERED
[B:] 0.090" CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc. Per NOA NO. 14-0916.11
[C:] 3/8" CLEAR INNER LITE - FULLY TEMPERED
[D:] 0.060" CLEAR OR WHITE Kuraray SentryGlas Interlayer by E.I. Kuraray America, Inc. Per NOA NO. 14-0916.11

[E:] 1/2" CLEAR INNER LITE - FULLY TEMPERED

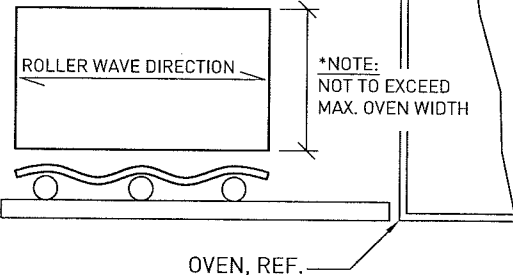
ALL GLASS PANELS WITH CHAMFERED AND GROUND EDGES AND (3) THREE OR (4) FOUR DRILLED HOLES

TOLERANCES:

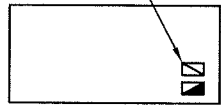
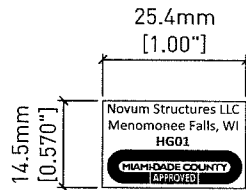
- ±1.5mm (±0.06") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS LESS THAN 1500mm (59")
±2.0mm (±0.08") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS BETWEEN 1500mm (59") AND 3000mm (118")
±2.0mm (±0.08") FOR DIAGONALS FOR GLASS DIMENSIONS LESS THAN 1500mm (59")
±3.0mm (±0.12") FOR DIAGONALS FOR GLASS DIMENSIONS BETWEEN 1500mm (59") AND 3000mm (118")
TOTAL LAMINATED GLASS THICKNESS: ±0.5mm (±0.02")
LAMINATION ALIGNMENT: ±1.5mm (±0.06")
LOCATION OF HOLES: ±2.0mm (±0.08")
(INCLUSIVE OF ALL OTHER LAMINATION AND DIMENSIONAL TOLERANCES)
REFER TO NOVUM MANUFACTURING SPECIFICATION NS105 FOR TOLERANCE AND MANUFACTURING REQUIREMENTS



SEE EACH GLASS FABRICATION DRAWING FOR ACTUAL ORIENTATION OF ROLLER WAVE



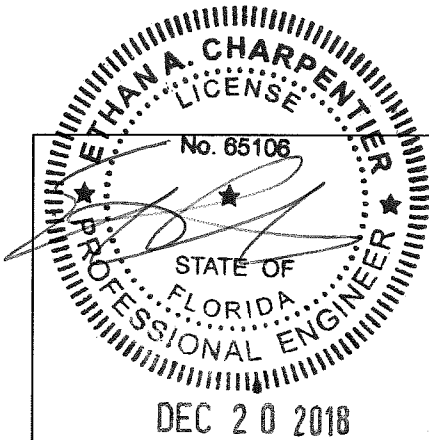
- * MAXIMUM OVEN WIDTHS:
FOR LAMINATED AND TEMPERED = 1680mm
FOR MONOLITHIC TEMPERED AND TEMPERED IGU WITHOUT LAMINATION = 2420mm
GLASS WIDTHS SHOULD REMAIN BELOW 1.65m AND 2.35m RESPECTIVELY



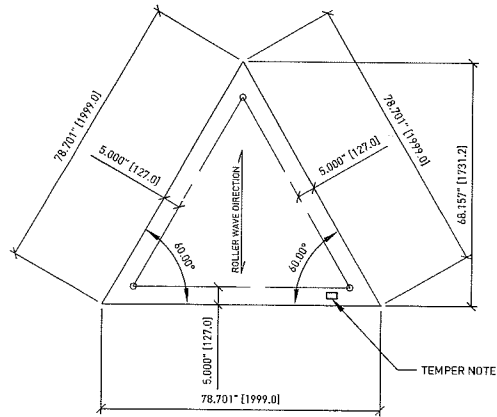
GLASS PANELS SEEN FROM ABOVE/ OUTSIDE

NOTE: PLEASE MAKE SURE PLACEMENT OF TEMPERING NOTE SHALL BE VISIBLE AND WILL NOT INTERFERE WITH THE LAMINATION PROCESS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-040-09
Expiration Date Aug 25, 2021
By [Signature]
Miami Dade Product Control

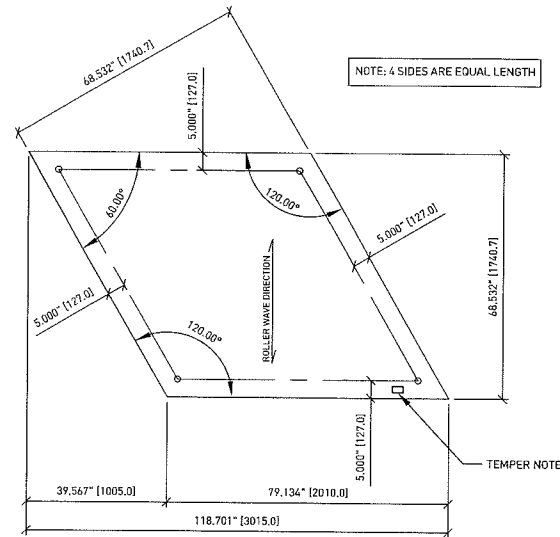


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Larson Engineering, Inc. 3024 Larson Road Waukegan, IL 60087 (7) 815.461.3120 (F) 815.461.3201	
Florida Firm No. F-2200000070 Certificate of Authorization #0003 Ethan A. Charpentier Registration No. 65106 ENGINEER STAMP:	
APPROVAL STAMP:	
NOVUM STAMP:	
22JUL11 BTH SWK REVISED PER COMMENTS BY BCCO	
REV.NO.	DATE
DWG.BY	CHK.BY
Novum Structures LLC W126 N8585 Westbrook Crossing Menomonee Falls, WI 53051 USA T 262.255.5561 www.novumstructures.com info@novumstructures.com	
NOVUM	
PROJECT: NOVUM'S HURRICANE PG GLASS SYSTEM: HG01 VERTICAL WALL SYSTEM	
DRAWING DESCRIPTION: GLASS MAKE-UP SHEET	
DRAWN BY:	DATE:
CHECKED BY:	APPROVED BY:
SCALE:	PROJECT MANAGER:
PROJECT NUMBER: 25-183	
SHEET NUMBER: MU801-1	



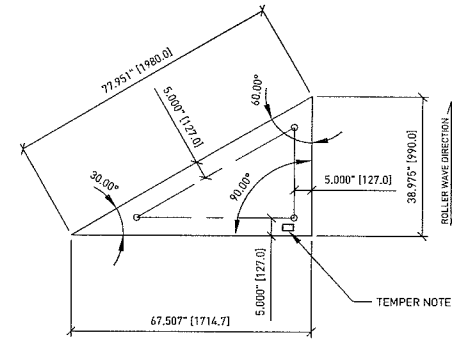
QUANTITY REQ'D= 4
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.1



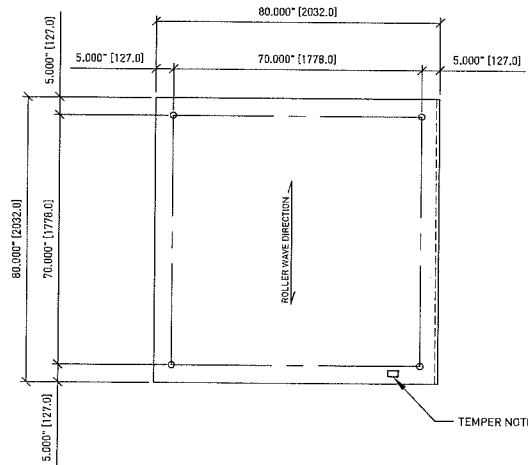
QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.2



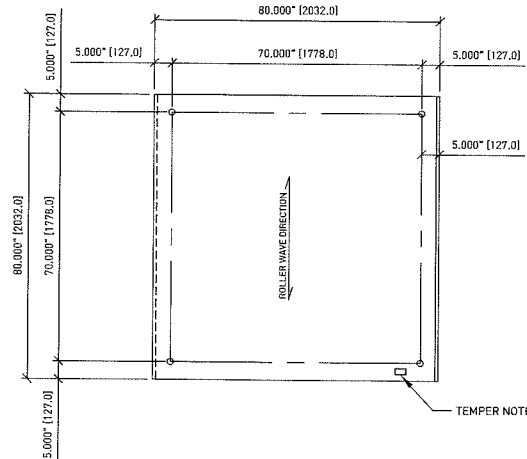
QUANTITY REQ'D= 4
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.3



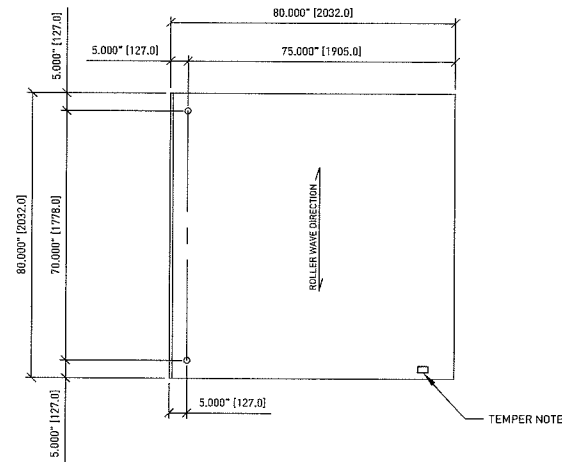
QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.4



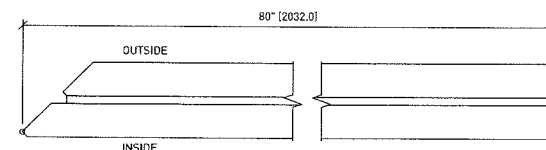
QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.5



QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

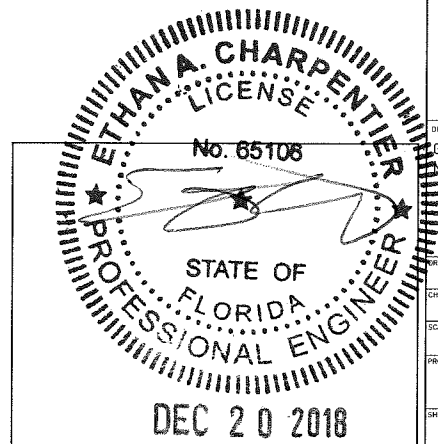
G1.6



QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.6

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0110-29
Expiration Date Aug. 25, 2021
By *Manuel Perez*
Miami Dade Product Control



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Florida Firm No. F-02000005175
Certificate of Authorization #5903
Ethan A. Charpentier
Registration No. 65108
ENGINEER STAMP

APPROVAL STAMP:

NOVUM STAMP:

REV. NO.	DATE	DWG. BY	CHK. BY
1	22JUL11	BTH	SWK

REVISED PER COMMENTS BY BCCO

Novum Structures LLC
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info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

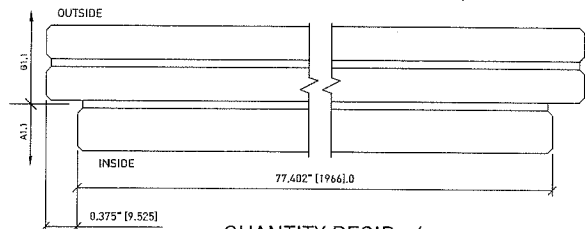
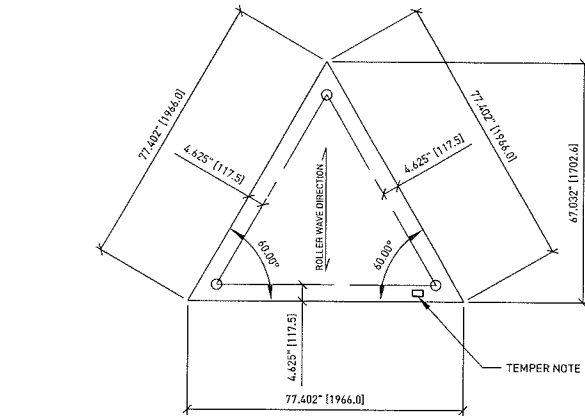
DRAWING DESCRIPTION:
GLASS DETAILS
NON-ART GLASS

CHECKED BY:	DATE:
BTH	22JUL11

SCALE:	PROJECT MANAGER:
NONE	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU802-1

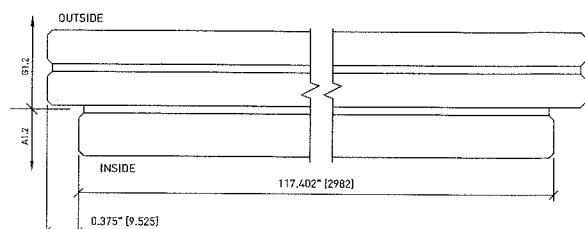
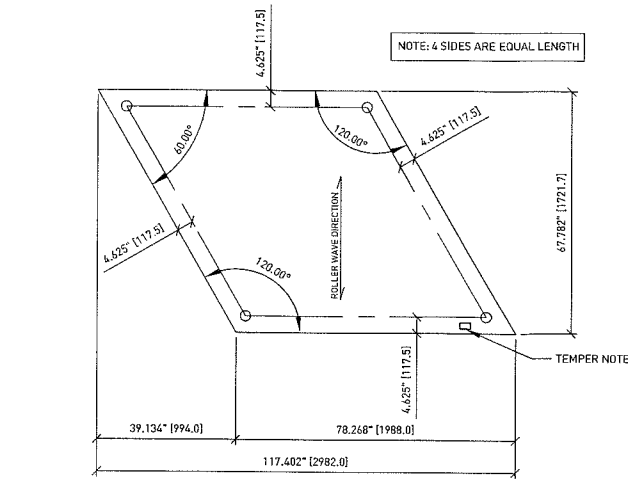


NOTE: HOLD THIS DIMENSION ON ALL SIDES - MEASURED PERPENDICULAR TO GLASS EDGE

QUANTITY REQ'D= 4

GLASS PANELS SEEN FROM ABOVE/OUTSIDE. REF. SHEET MU801 FOR GLASS MAKE-UP AND HOLE DETAILS

G2.1

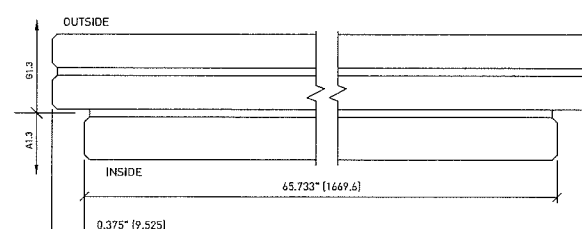
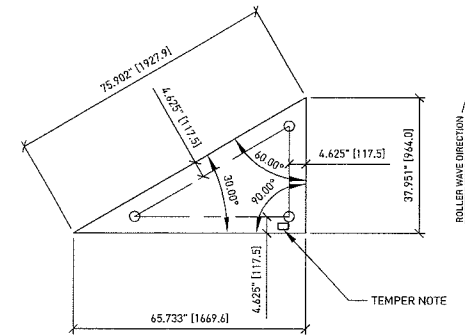


NOTE: HOLD THIS DIMENSION ON ALL SIDES - MEASURED PERPENDICULAR TO GLASS EDGE

QUANTITY REQ'D= 3

GLASS PANELS SEEN FROM ABOVE/OUTSIDE. REF. SHEET MU801 FOR GLASS MAKE-UP AND HOLE DETAILS

G2.2

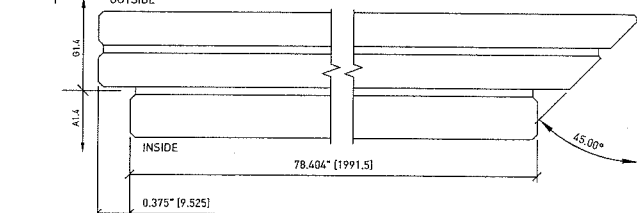
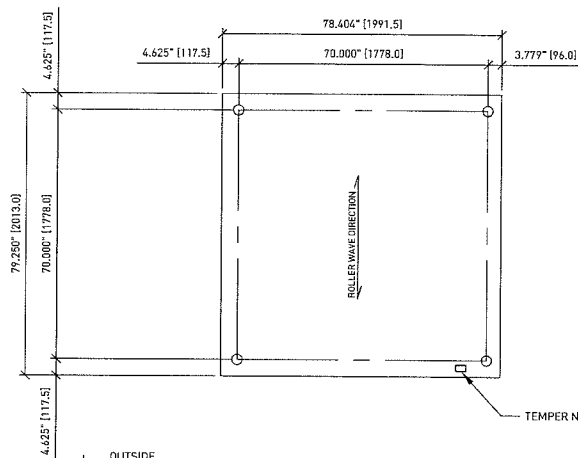


NOTE: HOLD THIS DIMENSION ON ALL SIDES - MEASURED PERPENDICULAR TO GLASS EDGE

QUANTITY REQ'D= 4

GLASS PANELS SEEN FROM ABOVE/OUTSIDE. REF. SHEET MU801 FOR GLASS MAKE-UP AND HOLE DETAILS

G2.3

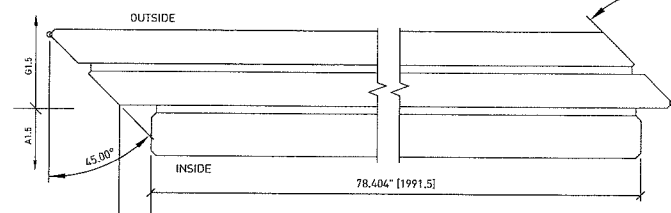
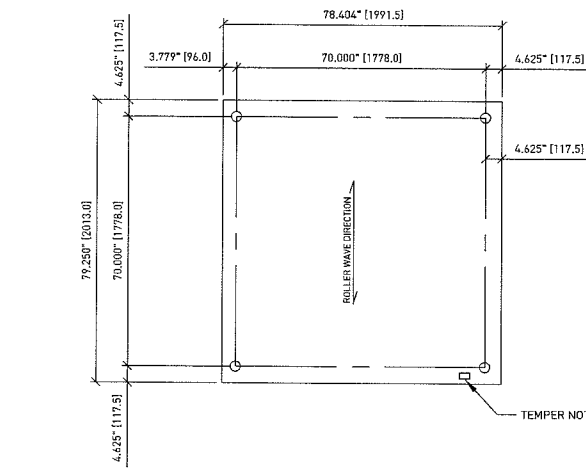


NOTE: HOLD THIS DIMENSION ON ALL SIDES - MEASURED PERPENDICULAR TO GLASS EDGE

QUANTITY REQ'D= 3

GLASS PANELS SEEN FROM ABOVE/OUTSIDE. REF. SHEET MU801 FOR GLASS MAKE-UP AND HOLE DETAILS

G2.4

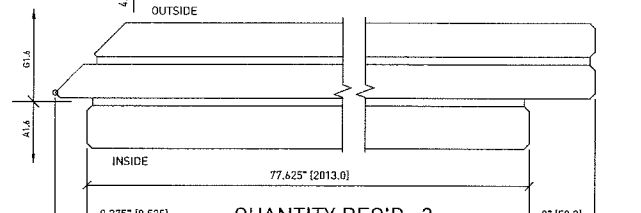
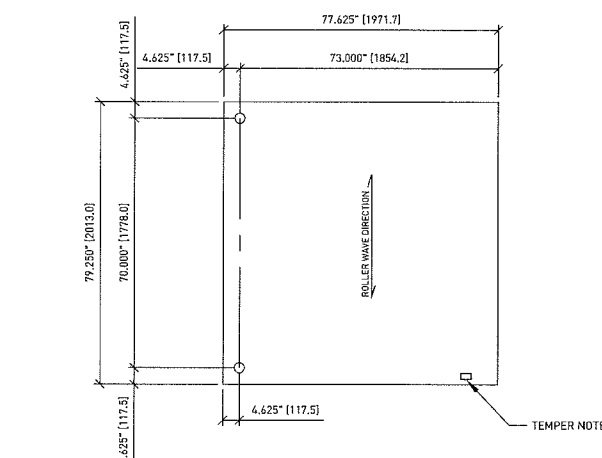


NOTE: HOLD THIS DIMENSION ON ALL SIDES - MEASURED PERPENDICULAR TO GLASS EDGE

QUANTITY REQ'D= 3

GLASS PANELS SEEN FROM ABOVE/OUTSIDE. REF. SHEET MU801 FOR GLASS MAKE-UP AND HOLE DETAILS

G2.5



NOTE: HOLD THIS DIMENSION ON 3 SIDES - MEASURED PERPENDICULAR TO GLASS EDGE

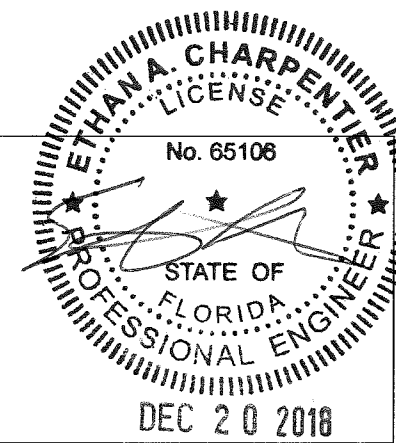
QUANTITY REQ'D= 3

GLASS PANELS SEEN FROM ABOVE/OUTSIDE. REF. SHEET MU801 FOR GLASS MAKE-UP AND HOLE DETAILS

NOTE: HOLD THIS DIMENSION ON THIS SIDE ONLY - MEASURED PERPENDICULAR TO GLASS EDGE

G2.6

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0110-09
Expiration Date Aug. 25, 2021
By *Manuel Perez*
Miami Dade Product Control



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Florida Firm No. F-0200005175
Certificate of Authorization #8803
Ethan A. Charpentier
Registration No. 65108
ENGINEER'S STAMP

APPROVAL STAMP:

REVISION STAMP:

REV. NO.	DATE	DWG. BY	CHK. BY
1	23JUL11	BTH	SWK

REVISED PER COMMENTS BY BCCO

Novum Structures LLC
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Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
GLASS DETAILS
PART GLASS

DESIGNED BY:	DATE:
BTH	22JUL11

CHECKED BY:	APPROVED BY:
SWK	SWK

SCALE:	PROJECT MANAGER:
NONE	GB

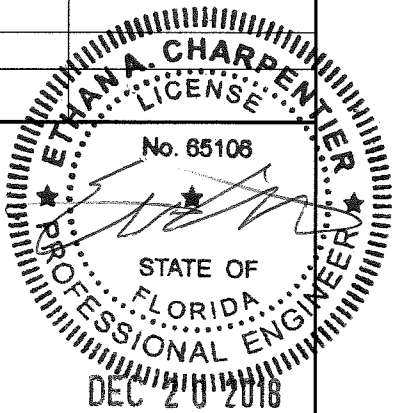
PROJECT NUMBER:
25-183

SHEET NUMBER:
MU803-1

\\NOVUM.LOCAL\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA TESTING\HG01 RENEWAL FOR 2014\FBA\AUTOCAD DRAWINGS\VERTICAL WALL\MU804.DWG 7/20/2015 3:09 PM

NOVUM																
Bill of Material					Project			Project No.		BoM Rev.No.		Rev. Date:	Rev. By:	Desc. / Rev. Dwg.		
					NOA HG01 BOM			25-183								
					Description			BoM Number								
					VERTICAL WALL SYSTEM			MU804								
Fab No.	Component No.	Revision		Quantity	Description	Unit: Inches (U.N.O.)		Material	Standard / Finish	Weight Unit: Pounds		Painting Area		Production Component Type	Remarks	Release Date
		Dwg	BoM			Width	Length			Piece	Total	Piece	Total			
HA600					HARDWARE & ACCESSORIES											
					Dow Corning #795 Silicone - Black											
					1/4-20 UNC Hex Head Bolt, 0.875"		0.875	GR.5	ZP							
					1/4-20 UNC Hex Nut			GR.5	ZP							
					1/4 Flat Washer - 0.281" ID, 0.625" OD, 0.09" Thick			GR.5	ZP							
	TR-336E				Arrow-shim Extrusion - Black				Black							
	GP75-26				Silicone Extrusion			70 DURO SHORE A	Black							
	GP75-36				Silicone Extrusion			70 DURO SHORE A	Black							
RB22-16					Buttonhead Rotule											
	RB22A				BUTTONHEAD ROTULE ASSEMBLY:											
					BUTTONHEAD 20mm DIA. BALL JOINT HEAD			316 SS								
	RTR16-SS				M16x75 THREADED ROD W/ 20mm DIA. BALL JOINT HEAD			316 SS								
	RGW-SR				GLASS CONTACT WASHER			SILICONE SHORE A 60 HARDNESS	BLACK							
	RTR-SR				ROTULE TIGHTENING RING			316 SS								
	M16LJN-A4				M16 LOW HEXAGON JAM NUT			DIN 936-A4								
	RSB13-AL				ROTULE SLEEVE FOR BUTTON HEAD			6063-0 ALUM								
	M16LJN-A4				ROTULE, 13mm LONG			DIN 936-A4								
	RW16-SS				M16 LOW HEXAGON JAM NUT											
					STAINLESS STEEL WASHER FOR 16mm THREADED ROD			316 SS								
	RW16-TP				TEFLON WASHER (SEE INSTALLATION INSTRUCTIONS)			PTFE (TEFLON)								
					CHANNEL				PR-FC							
					PLATE 0.188	TBD	121.000	5052-H32 AL								
					CHANNEL SPLICE STRIP				PR-FC							
					PLATE 20GA	TBD	2.000	5052-H32 AL								
Originator		Date		Abbreviation Key			Finish Code Key			Fab / Component Type Key						
TJQ		19 May 10		TYP. = Typical SIM. = Similar G.F. = Grind Flush G.S. = Grind Smooth			O.D. = Outer Diameter I.D. = Inner Diameter T.B.D. = To Be Determined U.N.O. = Unless Noted Otherwise			ZP = Zinc Plated HDG = Hot Dip Galvanized R = Raw or Bare or No Finish FC = Unspecified Finish Coat FC-L = Liquid Finish Coat FC-P = Powder Finish Coat PR = Primed AA = Anodized Aluminum			SC = Subcomponents (Plate, Clip) PR0 = Profiles H = Hardware A = Accessories G = Glass N = Nodes B = Bearing Points E = Embeds SW = AES/BB Steelwork SF = Space Frame			

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0110.09
Expiration Date Aug. 25, 2021
By *Manuel Perez*
Miami Dade Product Control



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Larson

Engineering, Inc.

3324 Labare Road

White Bear Lake, MN 55110

(7) 651.481.9120 (F) 651.481.3281

Florida Firm No. F-02000050175
Certificate of Authorization #9803
Ethan A. Charpentier
Registration No. 65108
ENGINEER STAMP

APPROVAL STAMP:

NOVUM STAMP:

2AUG11

BTH

SWK

REVISED PER COMMENTS BY BCCO

REV. NO.

DATE

DWG. BY

CHK. BY

Novum Structures LLC

W126 N8585 Westbrook Crossing

Menomonee Falls, WI 53051 USA

T 262.255.5561

www.novumstructures.com

info@novumstructures.com

NOVUM

PROJECT:

NOVUM'S HURRICANE PSG

GLASS SYSTEM: HG01

VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:

MOCK-UP #1 & #2

BILL OF MATERIALS

DRAWN BY:

BTH

DATE:

2AUG11

CHECKED BY:

SWK

APPROVED BY:

SWK

SCALE:

NONE

PROJECT MANAGER:

GB

PROJECT NUMBER:

25-183

SHEET NUMBER:

MU804-1