



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

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/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

**Poma & Sons, Inc. (dba Poma Architectural metals)**  
2049 S.W. Poma Drive  
Palm City, Florida 34990

### 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 High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Infinity Postless Glass Railing System

**APPROVAL DOCUMENT:** Drawing No. IGRS 58-1, titled "Infinity Postless Glass Railing System", sheets 1 through 16 of 16, prepared by Poma & Sons, Inc., dated February 2018, last revision #3 dated 06/16/2025, signed and sealed by Ashraf Elbahy, P.E., on 09/09/25, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number & the 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, city, state and the 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. The structural adequacy of the supporting structures is not part of this approval & shall be reviewed by the corresponding Building Dept.

This NOA revises NOA #24-1203.05 and consists of this page 1, evidence submitted pages E-1, E-2 and E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
10/02/25

NOA No. 25-0915.01  
Expiration Date: 04/26/2028  
Approval Date: 10/02/2025  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #18-0312.03**

**A. DRAWINGS**

1. *Drawing No. IGRS 58-1, titled "Infinity Postless Glass Railing System", sheets 1 through 16 of 16, prepared by Poma & Sons, Inc., dated February 2018, signed and sealed by Timothy C. Boudah, P.E., on March 06, 2018.*

**B. TESTS**

1. *Test Report No. BT-AE-17-001B, by Blackwater Testing, Inc., dated August 01, 2017, signed and sealed by Constantin Bortes, P.E., testing Infinity Postless Glass Railing System for concentrated and distributed loads per FBC 1618.4.6, Impacts per ANSI Z97.1, Static Wind Load per TAS 202-94 and Large Missile Impact per TAS 201-94.*
2. *Test Report No. BT-AE-17-001C, by Blackwater Testing, Inc., dated August 01, 2017, signed and sealed by Constantin Bortes, P.E., testing Infinity Postless Glass Railing System for concentrated and distributed loads per FBC 1618.4.6, Impacts per ANSI Z97.1, Static Wind Load per TAS 202-94 and Large Missile Impact per TAS 201-94.*

**C. CALCULATIONS**

1. *Calculation titled "Infinity Postless Glass Railing System", 103 pages, prepared by Timothy C. Boudah, P.E., dated February 2018, signed and sealed by Timothy C. Boudah, P.E., on March 06, 2018.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Florida Building Code, 2014 Edition and 2017 Edition Compliance Letter prepared by Timothy C. Boudah, P.E., dated March 06, 2018, signed and sealed by Timothy C. Boudah, P.E., on March 06, 2018.*

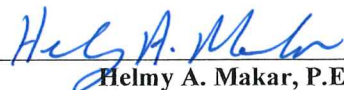
**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #21-0219.07**

**A. DRAWINGS**

1. *Drawing No. IGRS 58-1, titled "Infinity Postless Glass Railing System", sheets 1 through 16 of 16, prepared by Poma & Sons, Inc., dated February 2018, signed and sealed by Timothy C. Boudah, P.E., on April 25, 2022.*

**B. TESTS**

1. *None.*

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 25-0915.01  
Expiration Date: 04/26/2028  
Approval Date: 10/02/2025



**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. *Calculation titled "Infinity Postless Glass Railing System", 103 pages, prepared by Timothy C. Boudah, P.E., dated April 25, 2022, signed and sealed by Timothy C. Boudah, P.E., on April 25, 2022.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Florida Building Code, 2020 Edition Compliance Letter prepared by Timothy C. Boudah, P.E., dated April 25, 2022, signed and sealed by Timothy C. Boudah, P.E., on April 25, 2022.*

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #23-0216.02**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Florida Building Code, 2020 Edition Compliance Letter prepared by Timothy C. Boudah, P.E., dated April 25, 2022, signed and sealed by Timothy C. Boudah, P.E., on April 25, 2022.*

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #24-1203.05**

**A. DRAWINGS**

1. *Drawing No. IGRS 58-1, titled "Infinity Postless Glass Railing System", sheets 1 through 16 of 16, prepared by Poma & Sons, Inc., dated February 2018, last revised on 10/31/24, signed and sealed by Timothy C. Boudah, P.E., on 10/31/24.*



**Helmy A. Makar, P.E., M.S.**

**Product Control Section Supervisor**

**NOA No. 25-0915.01**

**Expiration Date: 04/26/2028**

**Approval Date: 10/02/2025**

**Poma & Sons, Inc. (dba Poma Architectural metals)**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Florida Building Code, 2023 Edition Compliance Letter prepared by Timothy C. Boudah, P.E., dated Oct. 31, 2024, signed and sealed by Timothy C. Boudah, P.E., on Oct. 31, 2024.*

**5. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. IGRS 58-1, titled "Infinity Postless Glass Railing System", sheets 1 through 16 of 16, prepared by Poma & Sons, Inc., dated February 2018, last revision #3 dated 06/16/2025, signed and sealed by Ashraf Elbahy, P.E., on 09/09/25.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *Calculation titled "Infinity Postless Glass Railing System", 43 pages, prepared by Ashraf Elbahy, P.E., dated August 14, 2025, signed and sealed by Ashraf Elbahy, P.E., on August 14, 2025.*

**D. QUALITY ASSURANCE**


1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Florida Building Code, 2023 Edition Compliance Letter prepared by Ashraf Elbahy, P.E., dated August 14, 2025, signed and sealed by Ashraf Elbahy, P.E., on August 14, 2025.*

  
\_\_\_\_\_  
Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 25-0915.01  
Expiration Date: 04/26/2028  
Approval Date: 10/02/2025



MANUFACTURED BY:



POMA ARCHITECTURAL METALS

INFINITY

Postless Glass Railing System

TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:  
DRY GLAZED = +115 PSF & -115 PSF  
WET GLAZED = +120 PSF & -120 PSF

GENERAL NOTES:

MATERIALS:

- A. ALUMINUM FRAMING ELEMENTS TO CONSIST OF ALLOY 6061, 6005, 6063 (TEMPER T5 OR T6) & 5052 WITH MINIMUM MECHANICAL PROPERTIES SPECIFIED IN TABLE A.4.3 OF THE 2020 ALUMINUM DESIGN MANUAL AS PUBLISHED BY THE ALUMINUM ASSOCIATION, INC., ARLINGTON, VIRGINIA.
- B. MECHANICAL FASTENERS TO BE TYPE 304, 316 OR 410 STAINLESS STEEL UNLESS OTHERWISE NOTED.
- C. WELD FILLER ALLOYS SHALL MEET AWS A5.10 STANDARDS, AND AS A MINIMUM, SHALL CONSIST OF ALUMINUM ALLOY 4043 or 5356 (100% Ar) PER AWS D1.2 TABLE 4.2.

ALUMINUM FINISHES:

- A. PRETREATMENT:  
(6) STAGE NON-ALKALINE PRETREATMENT SYSTEM WITH AMORPHOUS CHROME PHOSPHATE CONVERSION COATING; 40-90 MG PER FT<sup>2</sup>.
- B. PAINT SYSTEM: CUSTOMER SELECTION OF ONE OF THE FOLLOWING:  
1. E.S.P. APPLIED SINGLE COAT SUPER-DURABLE POLYESTER POWDER COAT- MEETS AAMA 2604  
2. E.S.P. APPLIED SINGLE COAT HIGH PERFORMANCE FLUOROPOLYMER POWDER COAT- MEETS AAMA 2605  
3. E.S.P. APPLIED (2) COAT HIGH PERFORMANCE FLUOROPOLYMER POWDER COAT- EXCEEDS AAMA 2605  
4. E.S.P. APPLIED (3) COAT HIGH PERFORMANCE 70% PVDF LIQUID COATING SYSTEM-EXCEEDS AAMA 2605
- C. COLOR: CUSTOMER CHOICE OF STANDARD AVAILABLE COLORS  
POMA AND ITS' AFFILIATED COMPANIES ARE APPROVED APPLICATORS FOR THE FOLLOWING COATING MANUFACTURERS:  
A. PPG INDUSTRIES  
B. IFS COATINGS  
C. SHERWIN WILLIAMS  
D. NORTEK POWDER COATINGS  
E. TIGER DRYLAC POWDER COATINGS

CONSTRUCTION:

SHOP FABRICATION AND ASSEMBLY SHALL BE DONE IN ACCORDANCE WITH POMA STANDARDS WITH THE DETAILS SPECIFICALLY AS SHOWN AND NOTED ON THESE DRAWINGS. SHOP CONNECTIONS SHALL BE DONE IN A NEAT, WORKMANLIKE MANNER UTILIZING THE MIG AND/OR TIG WELDING PROCESSES. EXPOSED WELDS WILL REMAIN UNFINISHED UNLESS NOTED OTHERWISE IN THESE DRAWINGS. ANY WELDS NOT SPECIFICALLY SHOWN OR NOTED WILL BE SIZED AND LOCATED BY POMA TO ENSURE PROPER FABRICATION. ALL COMPONENTS SHALL BE FIRMLY ATTACHED TO ONE ANOTHER TO ASSURE FIXED FASTENING FOR THE LIFE OF THE PRODUCT(S). CORNERS SHALL BE HAIRLINE FITTED AND/OR WELDED TO INSURE MAXIMUM STRENGTH DURING USAGE.

NOTE: THE DESIGN OF CERTAIN FACTORY COATED ARCHITECTURAL PRODUCTS MAY REQUIRE THE PLACEMENT OF WEEP HOLES TO PROPERLY EXHAUST PRETREATMENT CHEMICALS USED DURING THE COATING PROCESS. THESE WEEP HOLES SHALL BE LOCATED & SIZED ACCORDINGLY BY POMA DURING THE FABRICATION PROCESSES, AND TO THE EXTENT POSSIBLE, SHALL BE STRATEGICALLY PLACED IN AN INCONSPICUOUS LOCATION. CERTAIN DESIGN LIMITATIONS DO EXIST THAT MAY PREVENT WEEP HOLES FROM BEING CONCEALED FROM NORMAL VIEW. TYPICAL WEEP HOLE SIZE IS 1/4" DIA. BUT IN ANY INSTANCE SHALL NOT EXCEED 1/2".

DELIVERY:

DELIVER AND STORE ALL PRODUCT(S) IN A DRY AND SAFE LOCATION IN CLOSE PROXIMITY TO STAGING AREA DESIGNATED AND PROVIDED BY THE GENERAL CONTRACTOR OR OWNER. HANDLE PRODUCT(S) WITH EXTREME CARE TO AVOID MARRING OF THE FINISHED PRODUCT.

INSTALLATION:

1. PRODUCT(S) SHOULD BE INSTALLED FROM THE TOP FLOOR DOWN WHEN POSSIBLE AND ONLY WHEN ALL MASONRY WORK AND PAINTING IS COMPLETED.
2. INSTALL INFINITY BOTTOM BASE RAIL WITH EITHER POMA'S STAINLESS STEEL ANCHOR PIN ASSEMBLY CONSISTING OF 1-1/8" Ø ANCHOR PIN INSTALLED BY MEANS OF SLEEVEING, HAMMER DRILLING OR CORE-DRILLING A 1-1/2" MINIMUM TO 4" MAXIMUM DIAMETER HOLE, OR WITH POMA'S 1/2"Ø T-BOLT ANCHOR ASSEMBLY INSTALLED BY MEANS OF HAMMER DRILLED HOLES AT 5/8" MINIMUM TO 1" MAXIMUM DIAMETER. THESE ANCHORING SYSTEMS SHALL BE INSTALLED AS DETAILED AND NOTED IN THESE DRAWINGS USING EPOXY ADHESIVE OR GROUT ANCHORING PRODUCTS AS SPECIFIED IN THESE DRAWINGS, OR ADHESIVE ANCHORING PRODUCTS WHICH HAVE A BOND CHARACTERISTIC VALUE DETERMINED BY PRODUCT TESTING, IN CONFORMANCE WITH ASTM E488, OR PUBLISHED ANCHOR PRODUCT MANUFACTURER'S TEST DATA, PERFORMED IN ACCORDANCE WITH ACI 355.4.
3. FIELD SPlice LOCATIONS OF PRODUCT(S) COMPONENTS SHALL BE DETERMINED BY POMA TO BEST ACCOMMODATE FABRICATION, PAINTING, SHIPPING AND SITE SPECIFIC INSTALLATION. FIELD SPLICES SHALL BE ACCOMPLISHED BY BUTTING ONE MEMBER OF ONE SECTION TO ANOTHER, USING AN INTERIOR/EXTERIOR SLEEVE INSERT OR CONCEALED/EXPOSED CONNECTION TAB OR ANGLE AND FURTHER SECURED BY MEANS OF STAINLESS STEEL FASTENERS, OR NON FERROUS, SELF EXPANDING RIVETS. IT SHOULD BE NOTED THAT, ALTHOUGH ALL FIELD SPLICES WILL BE DONE IN A WORKMANLIKE MANNER, THESE JOINTS MAY BE VISIBLE UPON COMPLETION AND MAY ALSO REQUIRE A MIN. GAP OF 1/8" PER TWENTY FOOT SECTION OF EACH MEMBER, TO ALLOW FOR EXPANSION AND CONTRACTION OF PRODUCT(S) AND/OR STRUCTURE.

NOTE: THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE TO APPLY A SUITABLE ISOLATION MATERIAL TO ALL ALUMINUM SURFACES THAT MAY CONTACT DISSIMILAR METALS OR LIME-MORTAR, CONCRETE OR OTHER MASONRY MATERIALS. SUITABLE PRODUCTS INCLUDE: HEAVY BODIED BITUMINOUS PAINT, METHACRYLATE LACQUER OR NEOPRENE ISOLATION SHIMS, TAPES OR GASKETS AND HIGH GRADE TWO PART EPOXY ADHESIVES.

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3	DRY GLAZED-ANCHOR PIN SYSTEM PLAN & ELEVATION
4	WET GLAZED-T BOLT SYSTEM PLAN & ELEVATION
5	WET GLAZED-T BOLT SYSTEM PLAN & ELEVATION
6	T BOLT ANCHOR SYSTEM RAILING SECTION DETAIL
7	ANCHOR PIN SYSTEM RAILING SECTION DETAIL
8	RAILING SECTION DIE PRINTS & PARTS
9	T-BOLT & ANCHOR PIN DETAILS
10	SUPPLEMENTAL RAILING ASSEMBLY COMPONENTS
11	ANCHOR PIN ANCHOR SYSTEM-EXPLODED ISOMETRIC VIEW
12	T BOLT ANCHOR SYSTEM-EXPLODED ISOMETRIC VIEW
13	ANCHOR PIN ANCHORING SYSTEM SPACING TABLE
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16	T BOLT ANCHORING SYSTEM SPACING TABLE

HOST STRUCTURE QUALIFICATION NOTES:

1. THE PROJECT ENGINEER OF RECORD AND GENERAL CONTRACTOR ARE RESPONSIBLE FOR PROPER DESIGNING AND CONSTRUCTION OF SUITABLE SUBSTRATE FOR ATTACHMENT OF SYSTEMS.
2. FOR EXISTING STRUCTURES IT IS ASSUMED THAT THE THE PROJECT ENGINEER OF RECORD AND GENERAL CONTRACTOR HAVE VERIFIED THE EXISTING HOST STRUCTURE HAS BEEN DESIGNED AND CONSTRUCTED TO SAFELY SUPPORT THE LOADS IMPOSED BY THE INFINITY (POSTLESS) GLASS RAILING SYSTEM.
3. IT IS RECOMMENDED THAT THE PROJECT ENGINEER OF RECORD AND GENERAL CONTRACTOR REVIEW AS-BUILT CONSTRUCTION RECORDS FOR THE EXISTING HOST STRUCTURE AND/OR VERIFY EXISTING CONCRETE SLABS ARE PROVIDED WITH ADEQUATE REINFORCEMENTS TO SUPPORT IMPOSED RAILING SYSTEM LOADS.
4. FOR EXISTING STRUCTURES POMA RECOMMENDS THAT IN-SITU CONCRETE SAMPLING AND CORE TESTS BE PERFORMED BY LICENSED CONCRETE TESTING FIRM, TO DETERMINE ACTUAL CONCRETE COMPRESSIVE STRENGTH OF EXISTING CONCRETE BALCONY SLABS.
5. SEE TABLES ON SHEETS 13 THRU 16 FOR MINIMUM CONCRETE COMPRESSIVE STRENGTH (F'c) REQUIREMENTS FOR INFINITY GRS INSTALLED FOR BALCONY GUARDRAIL/RAILING WITHIN DESIGNATED WIND DESIGN PRESSURE LIMITS.

CLEANING AND PROTECTION:

1. ON DELIVERY ALL PRODUCT(S) WILL HAVE A PROTECTIVE COVERING OVER THE TOP HANDRAIL CAP ONLY. IMMEDIATELY UPON COMPLETION OF INSTALLATION OF RAILING FRAME, INSTALLER SHALL REMOVE PROTECTIVE COVER.
2. AFTER INSTALLATION GENERAL CONTRACTOR OR OWNER SHALL BE RESPONSIBLE FOR PROTECTING PRODUCT(S) DURING BALANCE OF CONSTRUCTION.
3. PAINTED ALUMINUM SURFACES SHALL BE CLEANED WITH PLAIN WATER CONTAINING A MILD SOAP OR DETERGENT. NO ABRASIVE AGENTS OR HARSH CHEMICALS ARE TO BE USED. (NOTE: ALL FACTORY COATED MATERIALS REQUIRE PERIODIC MAINTENANCE ESPECIALLY THOSE SUBJECT TO OCEAN SALT AIR OR HARMFUL CHEMICAL ENVIRONMENTS (WITHIN 1 MILE), WHICH REQUIRE WASHING A MINIMUM OF ONCE EVERY (3) MONTHS. APPLICATION OF AN APPROVED UV PROTECTANT AFTER WASHING IS RECOMMENDED-REFER TO AAMA 609 & 610; CLEANING AND MAINTENANCE GUIDE FOR ARCHITECTURALLY FINISHED ALUMINUM.

APPLICABLE GOVERNING BUILDING CODES:

1. THE INFINITY GUARDRAIL/RAILING COMPONENTS SPECIFIED AND SHOWN IN THIS PRODUCT APPROVAL DOCUMENT ARE SHOP FABRICATED AND ASSEMBLED TO WITHSTAND LOADS REQUIRED BY THE 8TH EDITION 2023 FLORIDA BUILDING CODE-BUILDING, AS THEY PERTAIN TO VARIOUS RAILING AND GUARDRAIL LIVE LOAD CONDITIONS CONSISTENT WITH SECTION 1607.8.1, WITH APPLICABLE SAFETY FACTOR PRESCRIBED BY SECTION 2407.1.1.
2. CONSISTENT WITH THE 8TH EDITION 2023 FLORIDA BUILDING CODE-BUILDING, SECTION 1618.4.6.3, HVHZ SPECIAL LOAD CONSIDERATIONS, THE INFINITY (POSTLESS) GLASS RAILING SYSTEM CAPACITY HAS BEEN TESTED AT TWO TIMES (2x) THE DESIGNATED MAXIMUM DESIGN WIND PRESSURE (AS REQUIRED BY MIAMI-DADE BCCO CHECKLIST #0460) BY PRODUCT TESTING PERFORMED BY BLACKWATER TESTING, INC. (TEST REPORT No. BT-AE-17-001B, AND TEST REPORT No. BT-AE-17-001C), IN CONFORMANCE WITH TEST APPLICATION STANDARD TAS 202, ALONG WITH GLAZING DYNAMIC IMPACT TESTS CONFORMING TO ANSI Z97.1, TEST CATEGORY CLASS A STANDARDS, CONSISTENT WITH 2023 FBC-B SECTION 2406.4.4, AND SECTION 2407.1.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 25-0915.01  
Expiration Date 04/26/2028  
By H. J. A. ElbaHy  
Miami Dade Product Control

CA # 27088  
301 Thalia Dr.  
Orlando, FL 32808  
ASHRAF ELBAHY, PhD, PE  
FLORIDA PE # 52616

Revisions

No.	Date	By	Description
1	4/25/2020	T.B.	UPDATE CODE REFERENCES TO 2020 FBC-B
2	10/31/2024	T.B.	UPDATE CODE REFERENCES TO 2023 FBC-B
3	6/16/2025	J.P.	ADD ALT. BASE RAIL

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

POMA ARCHITECTURAL METALS  
www.pomametals.com  
2049 S.W. POMA DR. PALM CITY, FL 34989  
OFFICE: 772.383.1088 FAX: 772.383.1540



INFINITY

Postless Glass Railing® System  
TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

PRODUCT DESCRIPTION: INFINITY POSTLESS GRS

FABRICATOR: POMA ARCHITECTURAL METALS

ADDRESS: 2049 SW POMA DR. PALM CITY, FL

ENGINEER: ASHRAF ELBAHY, PhD, PE

Sheet Size: 11X17

Product No.: IGRS 58-1

Drawn By: JP/AB

Checked By: FP

Scale: NO SCALE

Date: FEB, 2018

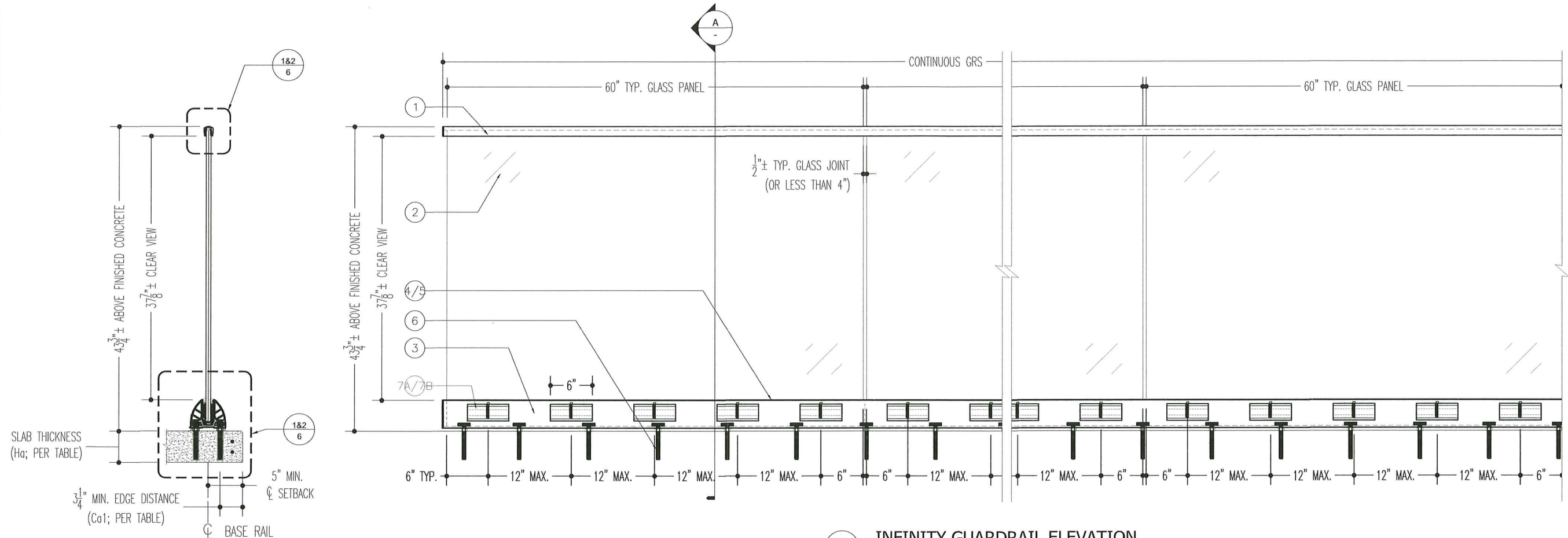
Sheet No.: 1 of 16



U.S. Patent No. 8,820,721

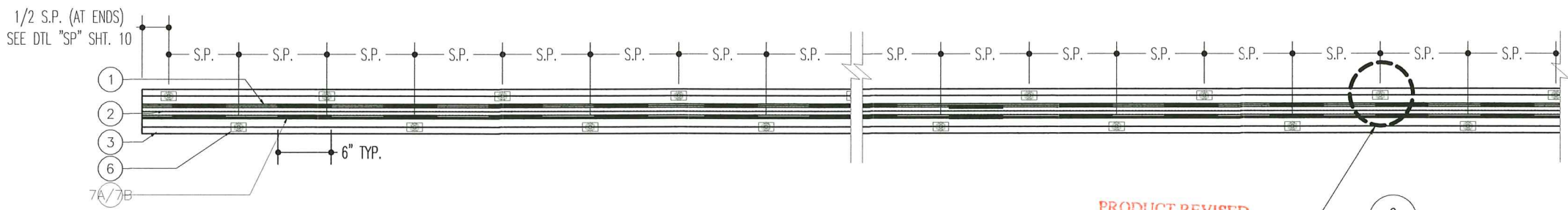
INFINITY  
Postless Glass Railing System  
DRY GLAZED-T BOLT SYSTEM

MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:  
DRY GLAZED = +115 PSF & -115 PSF



A RAILING PROFILE  
NTS

1 INFINITY GUARDRAIL ELEVATION  
NTS



2 INFINITY GUARDRAIL PLAN VIEW  
NTS

INFINITY GLASS RAILING COMPONENTS TABLE				
ITEM	PART#	COMPONENT DESCRIPTION	MATERIAL	ALLOY
1A-1C	GI-X	TOP RAIL-SEE OPTIONS	ALUMINUM	6005-T5
1D	GI-PC	TOP RAIL POSITIONING CHANNEL	SILICONE	
2	-	5/8" NOMINAL, LAMINATED F.T. GLASS	-	-
3	GI-85	BOTTOM BASE RAIL	ALUMINUM	6005-T5
4	121115A	T.P.E. WEDGE GASKET (INT)	T.P.V./EPDM	65 A
5	P598	T.P.E. PRE-SET GASKET (EXT)	T.P.V./EPDM	65 A
6	-	T-BOLT ANCHOR ASSEMBLY	S.S.	304
6A	-	ANCHOR PIN ASSEMBLY	S.S.	304
7A	TW2	ALUM. COMPRESSION TAPER-WEDGE	ALUMINUM	6005-T5
7B	TWSB58	"L" SETTING/POSITIONING BLOCK	NYLON	90 D
7C	GG735	SikaGlaze GG735	POLYURETHANE	80 D

NOTES:  
1. Ca1 = EDGE DISTANCE (SEE TABLES ON SHEETS 13 THRU 16 FOR MINIMUM REQUIREMENTS).  
2. (#) = INFINITY GLASS RAILING COMPONENTS (SEE COMPONENT TABLES FOR COMPONENT DESCRIPTIONS).  
3. S.P. = T-BOLT ANCHOR & ANCHOR PIN SPACING (SEE TABLES ON SHEETS 13 THRU 16).

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 09/26/2024  
By H. G. P. Elbahi  
Miami Dade Product Control

CA # 27084  
301 Thalia Dr.  
Orlando, FL 32807  
ASHRAF ELBAHY, PhD, PE  
FLORIDA PE # 52616

Revisions

No.	Date	By	Description

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

POMA

INFINITY

Postless Glass Railing® System

TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

POMA ARCHITECTURAL METALS

www.pomametals.com

2049 SW POMA DR. PALM CITY, FL 34909

OFFICE: 772.383.0088 FAX: 772.383.7540

PRODUCT DESCRIPTION: INFINITY POSTLESS GR

FABRICATOR: POMA ARCHITECTURAL METALS

ADDRESS: 2049 SW POMA DR. PALM CITY, FL

ENGINEER: ASHRAF ELBAHY, PhD, PE

Sheet Size: 11X17

Product No.: IGRS 58-1

Drawn By: JP/AB

Checked By: FP

Scale: NO SCALE

Date: FEB, 2018

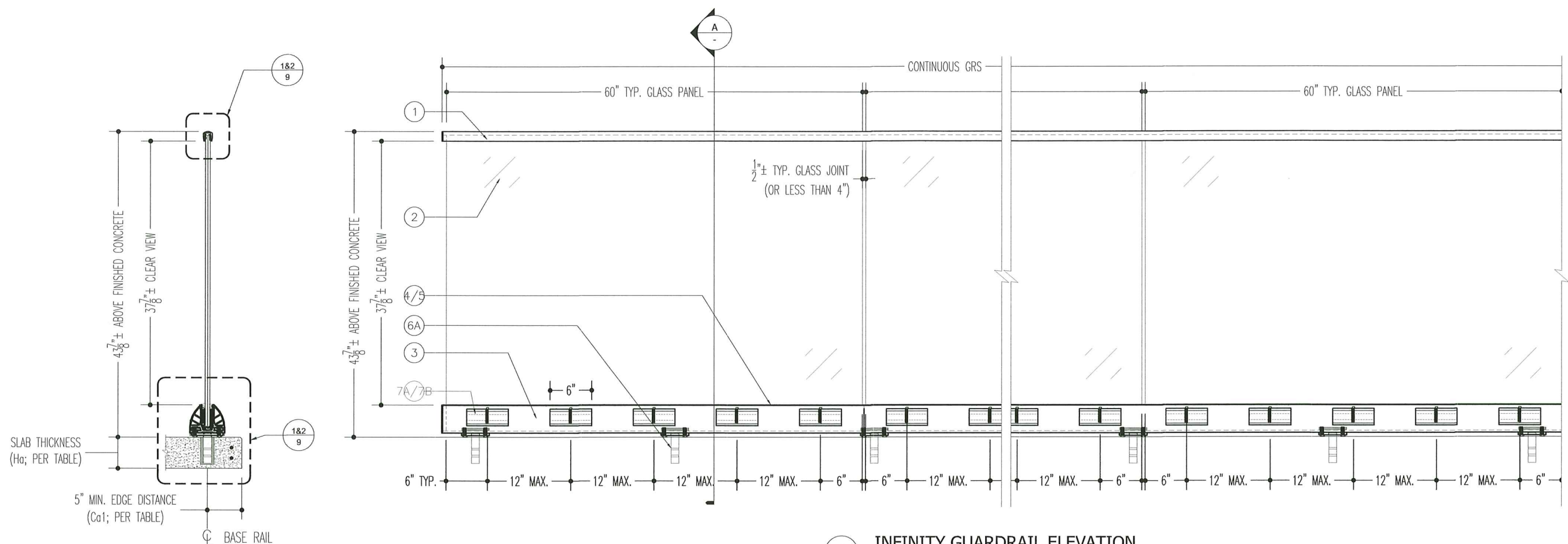
Sheet No.: 2 of 16



U.S. Patent No. 8,820,721

INFINITY  
Postless Glass Railing System  
DRY GLAZED-ANCHOR PIN SYSTEM

MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:  
DRY GLAZED = +115 PSF & -115 PSF



INFINITY GLASS RAILING COMPONENTS TABLE				
ITEM	PART#	COMPONENT DESCRIPTION	MATERIAL	ALLOY
1A-1C	GI-X	TOP RAIL-SEE OPTIONS	ALUMINUM	6005-T5
1D	GI-PC	TOP RAIL POSITIONING CHANNEL	SILICONE	
2	-	5/8" NOMINAL, LAMINATED F.T. GLASS	-	-
3	GI-85	BOTTOM BASE RAIL	ALUMINUM	6005-T5
4	121115A	T.P.E. WEDGE GASKET (INT)	T.P.V./EPDM	65 A
5	P598	T.P.E. PRE-SET GASKET (EXT)	T.P.V./EPDM	65 A
6	-	T-BOLT ANCHOR ASSEMBLY	S.S.	304
6A	-	ANCHOR PIN ASSEMBLY	S.S.	304
7A	TW2	ALUM. COMPRESSION TAPER-WEDGE	ALUMINUM	6005-T5
7B	TWSB58	"L" SETTING/POSITIONING BLOCK	NYLON	90 D
7C	GG735	SikaGlaZe GG735	POLYURETHANE	80 D

- NOTES:
- Ca1 = EDGE DISTANCE (SEE TABLES ON SHEETS 13 THRU 16 FOR MINIMUM REQUIREMENTS).
  - # = INFINITY GLASS RAILING COMPONENTS (SEE COMPONENT TABLES FOR COMPONENT DESCRIPTIONS).
  - S.P. = T-BOLT ANCHOR & ANCHOR PIN SPACING (SEE TABLES ON SHEETS 13 THRU 16).

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 04/26/2028  
By: *[Signature]*  
Miami Data Product Control

ASHRAF ELBAHY, PhD, PE  
FLORIDA PE # 52616

Revisions			
No.	Date	By	Description

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

**POMA**

POMA ARCHITECTURAL METALS  
www.pomametals.com  
2049 S.W. POMA DR. PALM CITY, FL 32909  
OFFICE: 772.283.8008 FAX: 772.283.7540

**INFINITY**

Postless Glass Railing® System  
TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT  
CONTROL REQUIREMENTS

PRODUCT DESCRIPTION: INFINITY POSTLESS GRs
FABRICATOR: POMA ARCHITECTURAL METALS
ADDRESS: 2049 SW POMA DR. PALM CITY, FL
ENGINEER: ASHRAF ELBAHY, PhD, PE
Sheet Size: 11X17

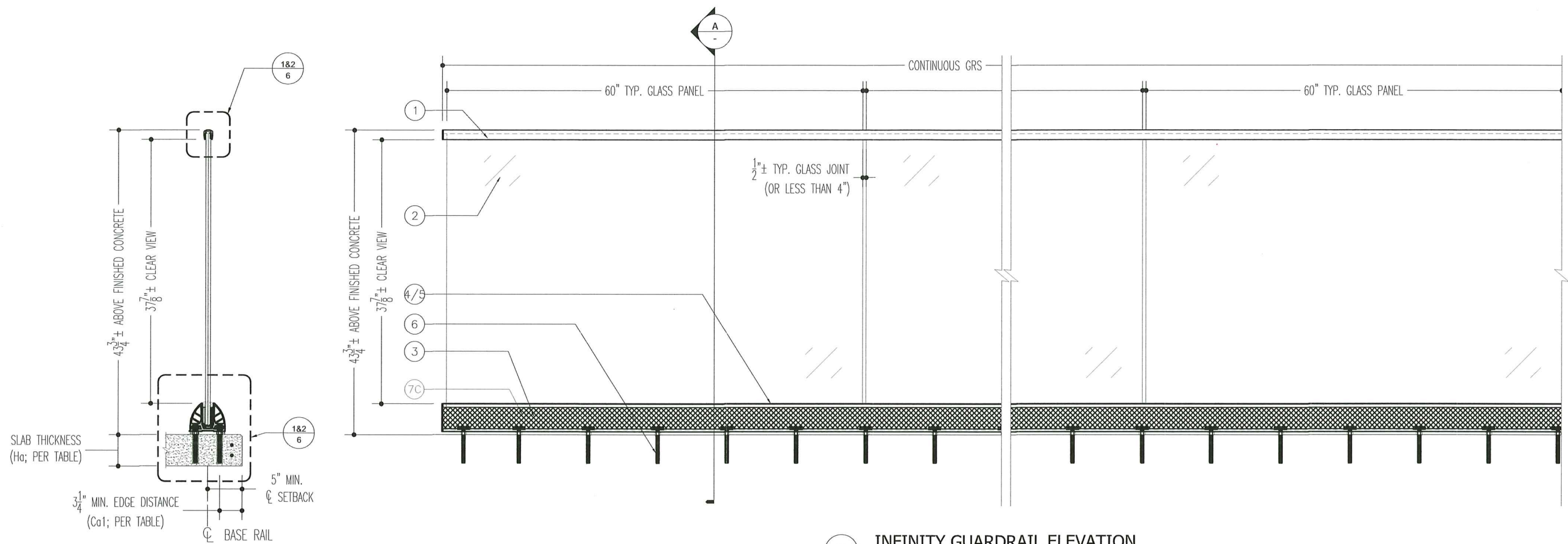
Product No.: IGRS 58-1
Drawn By: JP/AB
Checked By: FP
Scale: NO SCALE
Date: FEB, 2018
Sheet No.: 3 of 16



U.S. Patent No. 8,820,721

INFINITY  
Postless Glass Railing System  
WET GLAZED-T BOLT SYSTEM

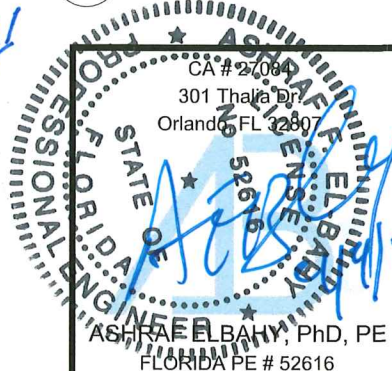
MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:  
WET GLAZED= +120 PSF & -120 PSF



INFINITY GLASS RAILING COMPONENTS TABLE				
ITEM	PART#	COMPONENT DESCRIPTION	MATERIAL	ALLOY
1A-1C	GI-X	TOP RAIL-SEE OPTIONS	ALUMINUM	6005-T5
1D	GI-PC	TOP RAIL POSITIONING CHANNEL	SILICONE	-
2	-	5/8" NOMINAL, LAMINATED F.T. GLASS	-	-
3	GI-85	BOTTOM BASE RAIL	ALUMINUM	6005-T5
4	121115A	T.P.E. WEDGE GASKET (INT)	T.P.V./EPDM	65 A
5	P598	T.P.E. PRE-SET GASKET (EXT)	T.P.V./EPDM	65 A
6	-	T-BOLT ANCHOR ASSEMBLY	S.S.	304
6A	-	ANCHOR PIN ASSEMBLY	S.S.	304
7A	TW2	ALUM. COMPRESSION TAPER-WEDGE	ALUMINUM	6005-T5
7B	TWSB58	"L" SETTING/POSITIONING BLOCK	NYLON	90 D
7C	GG735	Sika Glaze GG735	POLYURETHANE	80 D

- NOTES:
- Ca1 = EDGE DISTANCE (SEE TABLES ON SHEETS 13 THRU 16 FOR MINIMUM REQUIREMENTS).
  - # = INFINITY GLASS RAILING COMPONENTS (SEE COMPONENT TABLES FOR COMPONENT DESCRIPTIONS).
  - S.P. = T-BOLT ANCHOR & ANCHOR PIN SPACING (SEE TABLES ON SHEETS 13 THRU 16).

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 04/26/2025  
By *Helga M. M.*  
Miami Date Product Control



Revisions

No.	Date	By	Description

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

**POMA**

POMA ARCHITECTURAL METALS  
www.pomametals.com  
2049 S.W. POMA DR. PALM CITY, FL 32909  
OFFICE: 772.283.0098 FAX: 772.283.7540

**INFINITY**  
Postless Glass Railing® System  
TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT  
CONTROL REQUIREMENTS

PRODUCT DESCRIPTION: INFINITY POSTLESS GRS

FABRICATOR: POMA ARCHITECTURAL METALS

ADDRESS: 2049 SW POMA DR. PALM CITY, FL

ENGINEER: ASHRAF ELBAHI, PhD, PE

Sheet Size: 11X17

Product No.: IGRS 58-1

Drawn By: JP/AB

Checked By: FP

Scale: NO SCALE

Date: FEB, 2018

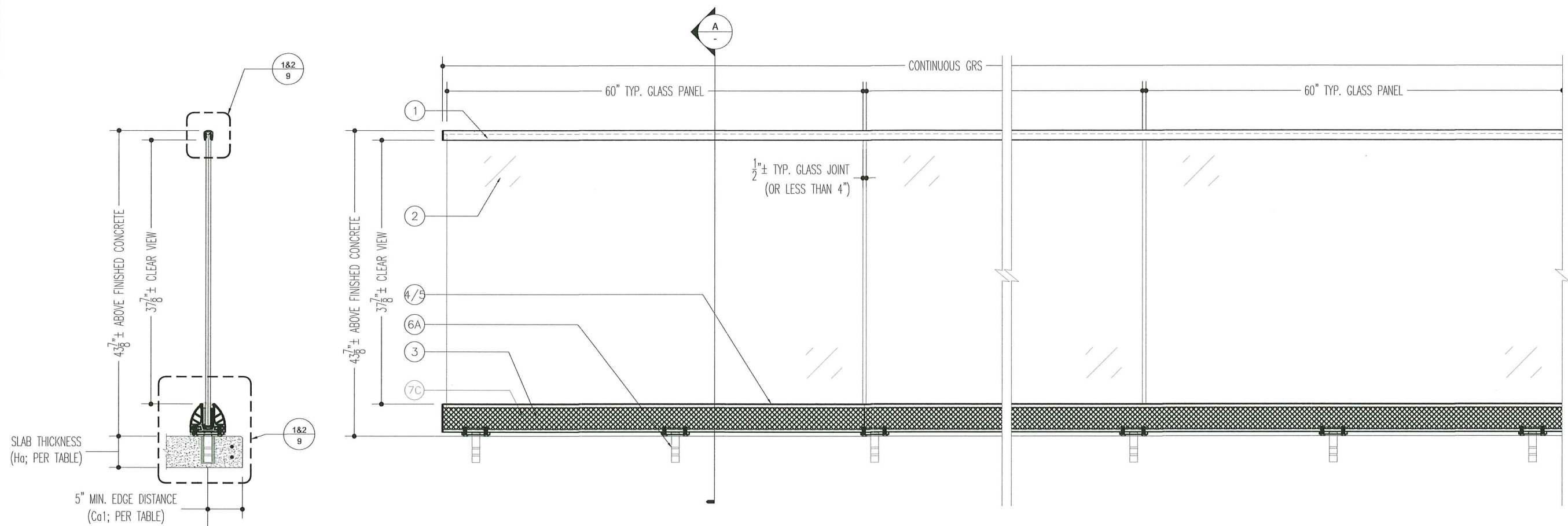
Sheet No.: 4 of 16



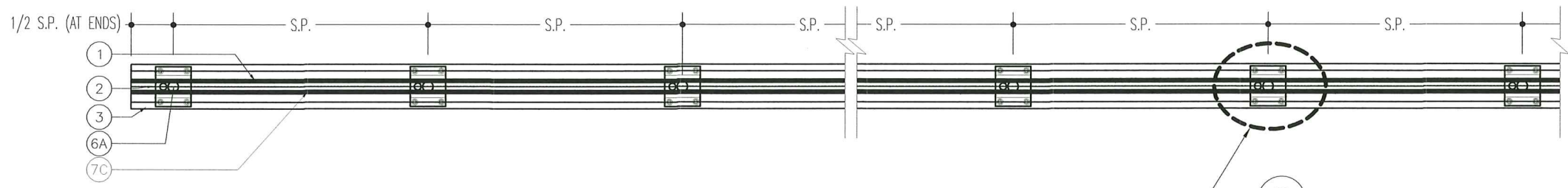
U.S. Patent No. 8,820,721

**INFINITY**  
Postless Glass Railing System  
**WET GLAZED-ANCHOR PIN SYSTEM**

MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:  
WET GLAZED= +120 PSF & -120 PSF



1 INFINITY GUARDRAIL ELEVATION  
NTS



2 INFINITY GUARDRAIL PLAN VIEW  
NTS

INFINITY GLASS RAILING COMPONENTS TABLE				
ITEM	PART#	COMPONENT DESCRIPTION	MATERIAL	ALLOY
1A-1C	GI-X	TOP RAIL-SEE OPTIONS	ALUMINUM	6005-T5
1D	GI-PC	TOP RAIL POSITIONING CHANNEL	SILICONE	
2	-	5/8" NOMINAL, LAMINATED F.T. GLASS	-	-
3	GI-85	BOTTOM BASE RAIL	ALUMINUM	6005-T5
4	121115A	T.P.E. WEDGE GASKET (INT)	T.P.V./EPDM	65 A
5	P598	T.P.E. PRE-SET GASKET (EXT)	T.P.V./EPDM	65 A
6	-	T-BOLT ANCHOR ASSEMBLY	S.S.	304
6A	-	ANCHOR PIN ASSEMBLY	S.S.	304
7A	TW2	ALUM. COMPRESSION TAPER-WEDGE	ALUMINUM	6005-T5
7B	TW5B58	"L" SETTING/POSITIONING BLOCK	NYLON	90 D
7C	GG735	SikaGlaZe GG735	POLYURETHANE	80 D

- NOTES:**
- Ca1 = EDGE DISTANCE (SEE TABLES ON SHEETS 13 THRU 16 FOR MINIMUM REQUIREMENTS).
  - (#) = INFINITY GLASS RAILING COMPONENTS (SEE COMPONENT TABLES FOR COMPONENT DESCRIPTIONS).
  - S.P. = T-BOLT ANCHOR & ANCHOR PIN SPACING (SEE TABLES ON SHEETS 13 THRU 16).

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 09/26/2028  
By *Heidi A. Miller*  
Miami Data Product Control

ASHRAF ELBAHY, PhD, PE  
FLORIDA PE # 52616  
CA # 27084  
301 Thalia Dr  
Orlando, FL 32807

Revisions			
No.	Date	By	Description

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

**POMA**

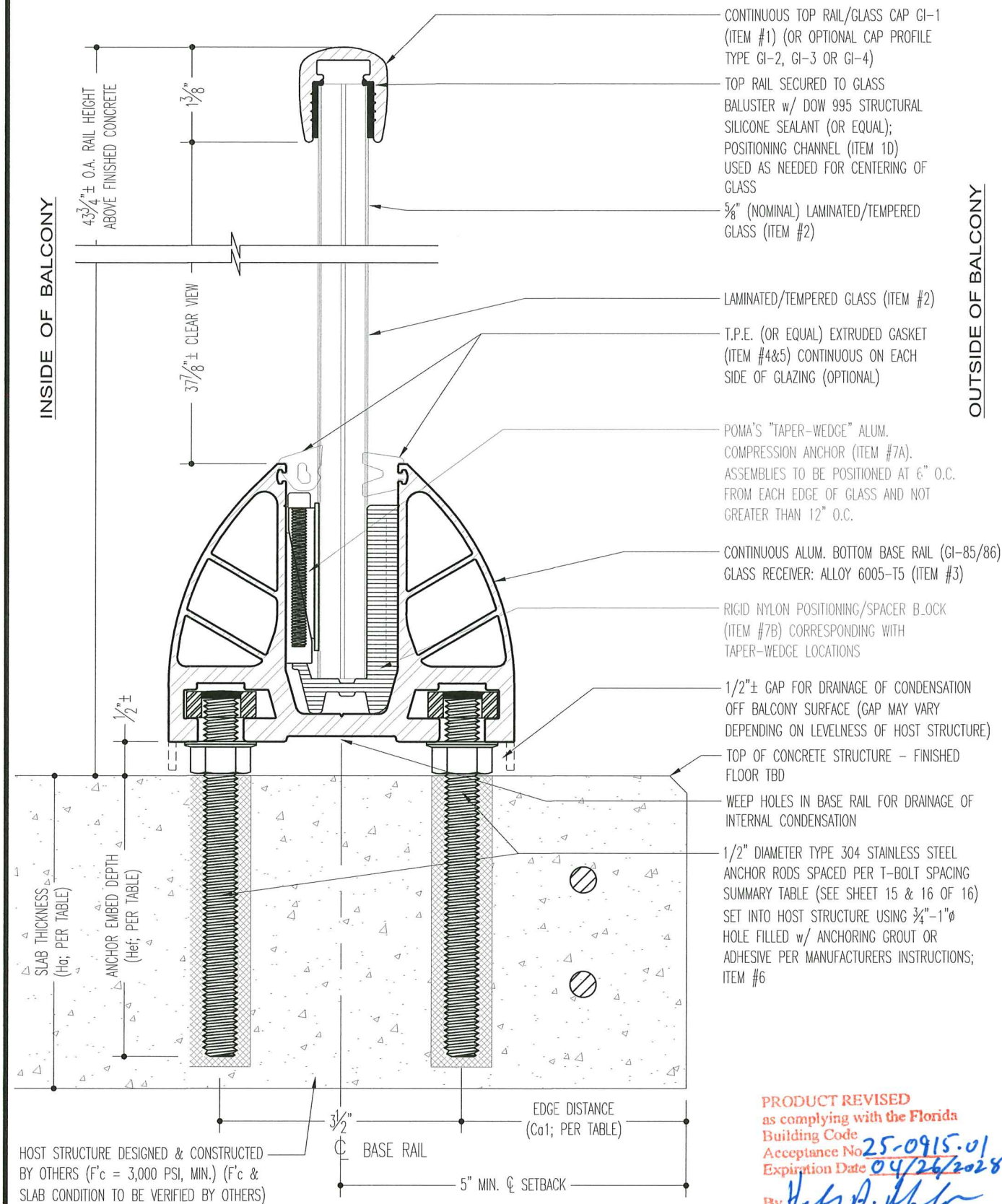
POMA ARCHITECTURAL METALS  
www.pomametals.com  
3049 S.W. POMA DR. PALM CITY, FL 32909  
OFFICE: 772.283.0088 FAX: 772.283.7540

**INFINITY**  
Postless Glass Railing® System  
TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT  
CONTROL REQUIREMENTS

PRODUCT DESCRIPTION: INFINITY POSTLESS GRs
FABRICATOR: POMA ARCHITECTURAL METALS
ADDRESS: 2049 SW POMA DR. PALM CITY, FL
ENGINEER: ASHRAF ELBAHY, PhD, PE
Sheet Size: 11X17

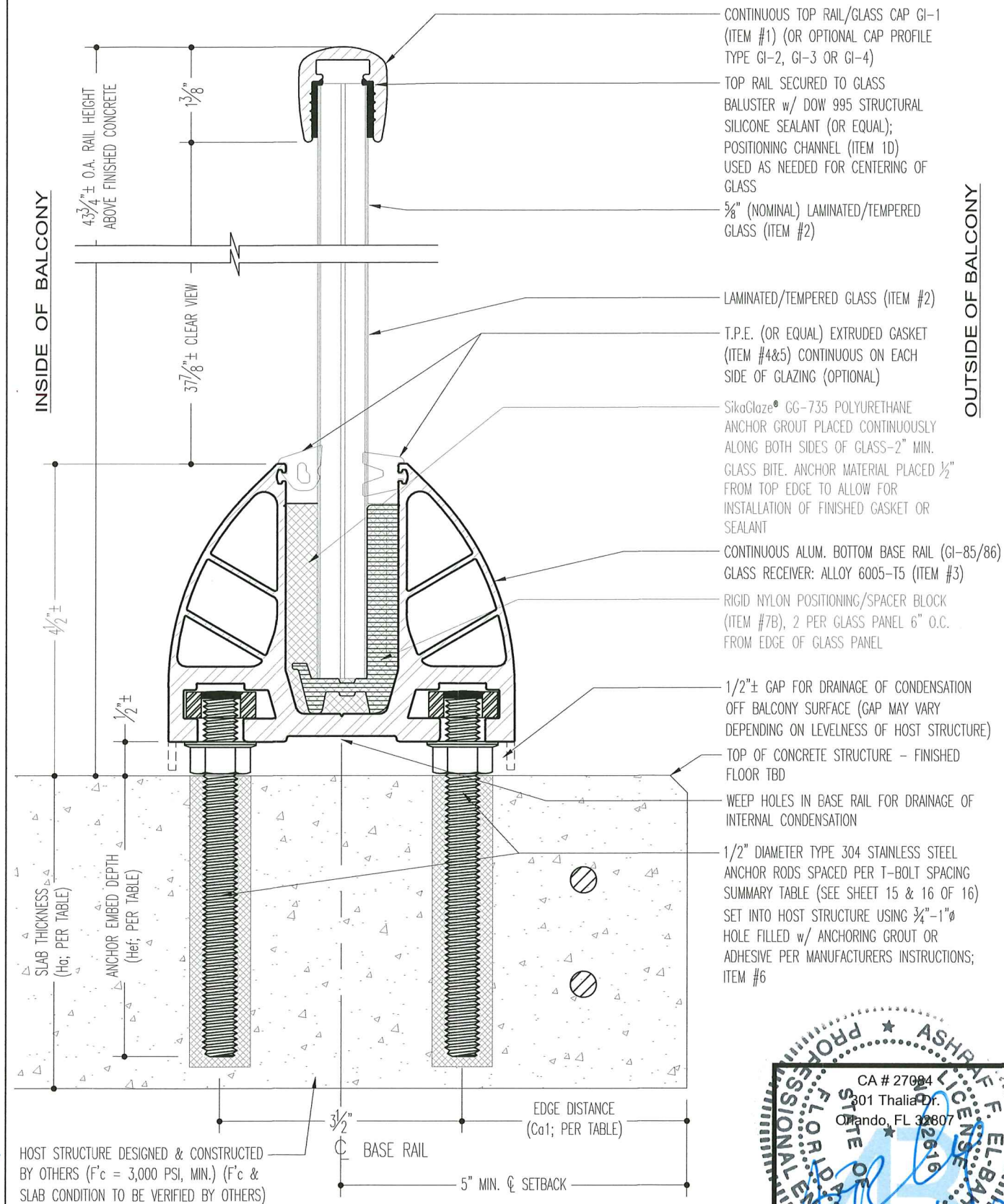
Product No.: IGRS 58-1
Drawn By: JP/AB
Checked By: FP
Scale: NO SCALE
Date: FEB, 2018
Sheet No.: 5 of 16






1 ENLARGED INFINITY RAILING SECTION-DRY GLAZED  
(TAPER WEDGE) NTS

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 04/26/2028  
By Hely A. Melon  
Miami-Dade Product Control

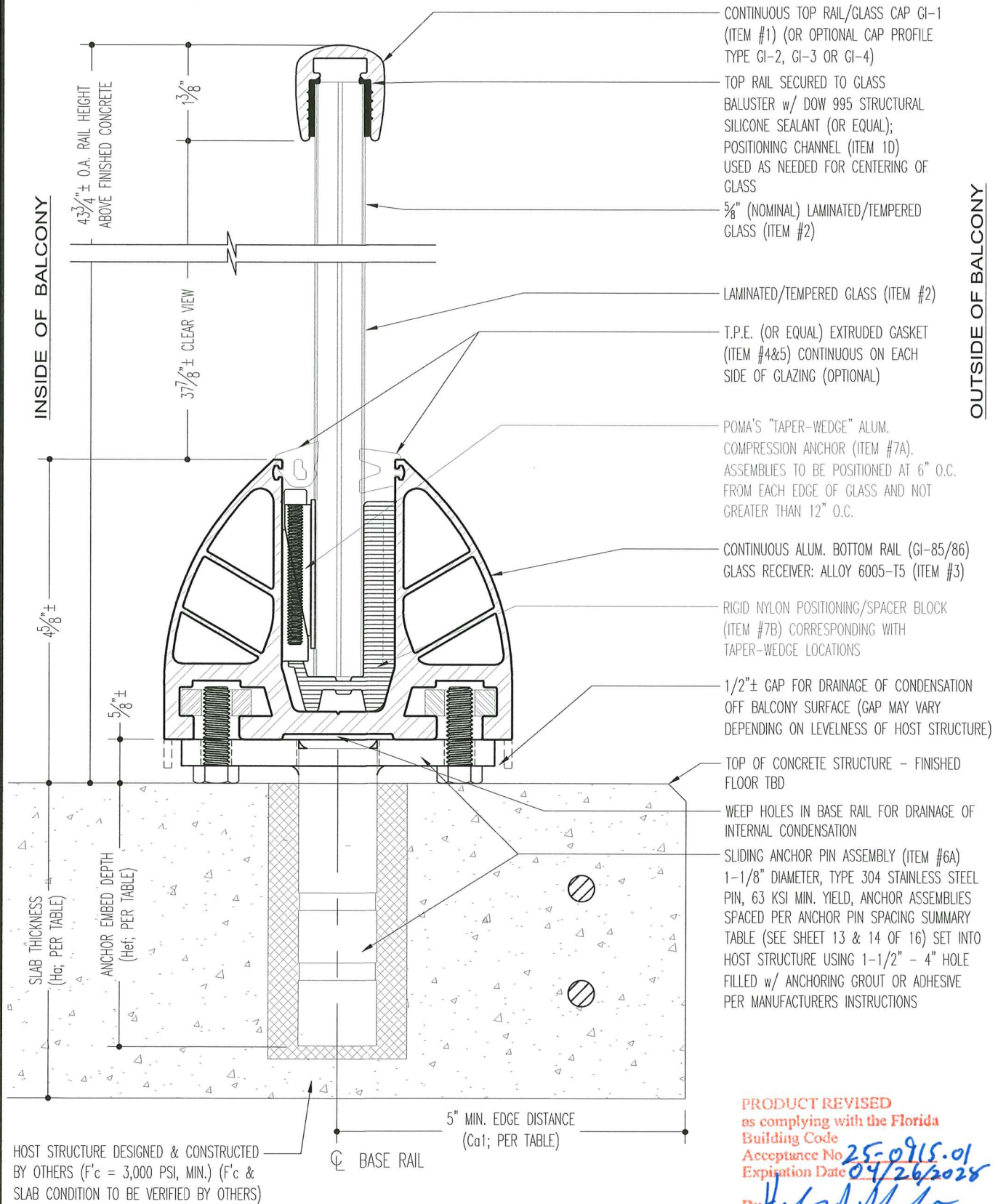


2 ENLARGED INFINITY RAILING SECTION-WET GLAZED

MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:	
DRY GLAZED =	+115 PSF & -115 PSF
WET GLAZED=	+120 PSF & -120 PSF

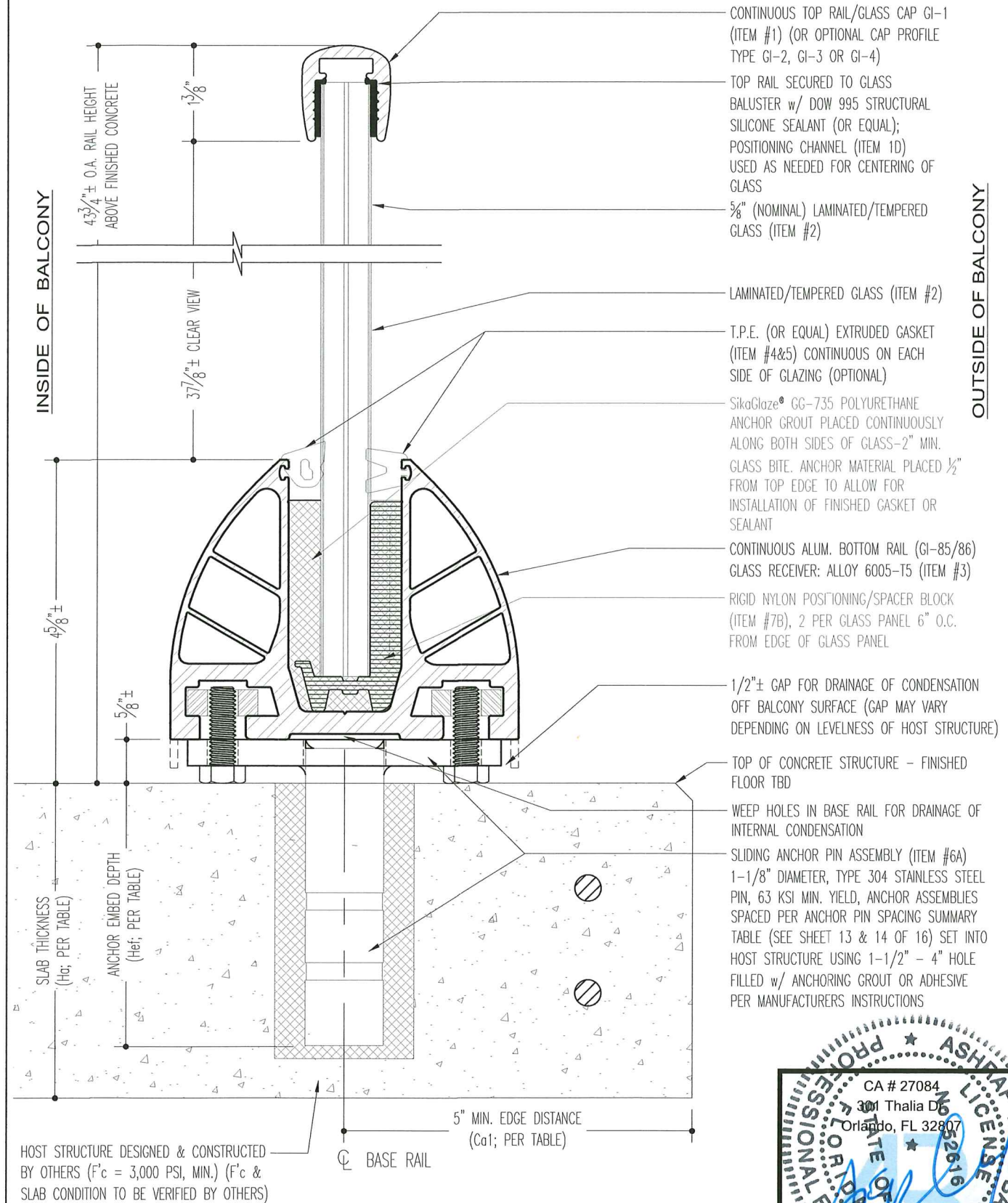
PRODUCT DESCRIPTION: INFINITY POSTLESS GRS		PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS	
FABRICATOR: POMA ARCHITECTURAL METALS		 <b>POMA ARCHITECTURAL METALS</b> www.pomametals.com 2049 S.W. 10th St. Suite 1-3000 MIAMI, FL 33136 OFFICE: 772-383-5099 FAX: 772-283-7246	
ADDRESS: 2049 SW POMA DR. PALM CITY, FL			
ENGINEER: ASHRAF ELBAHY, PHD, PE			
Sheet Size: 11X17			
Product No.: IGRS 58-1			
Drawn By: JP/AB			
Checked By: FP			
Scale: NO SCALE			
Date: FEB, 2018			
Sheet No.: 6 of 16			





1 ENLARGED INFINITY RAILING SECTION-TAPER WEDGE


PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915-01  
Expiration Date 04/26/2028  
By: *Healy A. Mohr*  
Miami-Dade Product Control



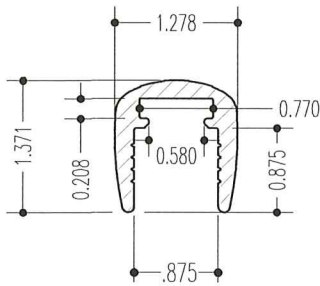
2 ENLARGED INFINITY RAILING SECTION-WET GLAZED

CA # 27084  
301 Thalia Dr  
Orlando, FL 32807

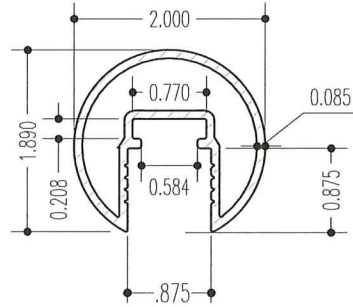
ASHRAF ELBAHY, PhD, PE  
FLORIDA PE # 52616

 <b>PREMIER MANUFACTURER OF RAILINGS &amp; ARCHITECTURAL METAL PRODUCTS</b>	PRODUCT DESCRIPTION: INFINITY POSTLESS GR5		Revisions	
	FABRICATOR: POMA ARCHITECTURAL METALS		No.	Description
	ADDRESS: 2049 SW POMA DR. PALM CITY, FL		Date	By
	ENGINEER: ASHRAF ELBAHY, PhD, PE			
Product No.: IGRS 58-1		<div><b>INFINITY</b></div> <div>Postless Glass Railing® System</div> <div>TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS</div>		
Drawn By: JP/AB				
Checked By: FP				
Scale: NO SCALE				
Date: FEB, 2018				
Sheet No.: 7 of 16				

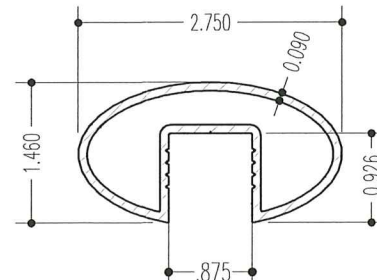




1 ITEM #1 TOP RAIL GI-1



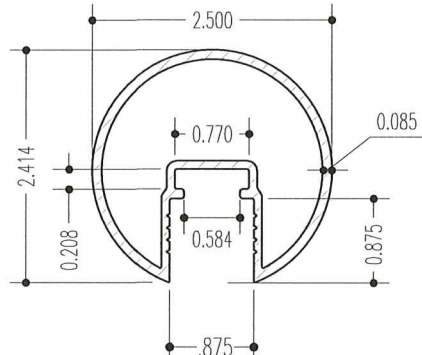
1A ITEM #1A ROUND TOP RAIL GI-2



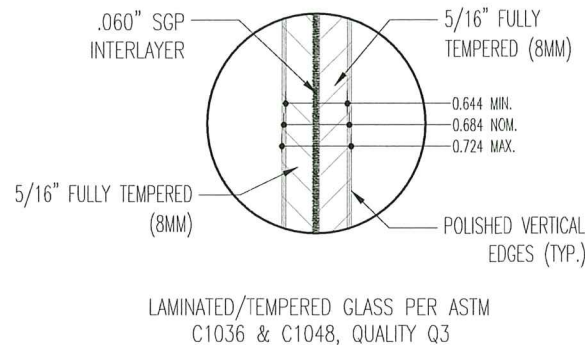
1B ITEM #1B OVAL TOP RAIL GI-3

MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:  
 DRY GLAZED = +115 PSF & -115 PSF  
 WET GLAZED = +120 PSF & -120 PSF

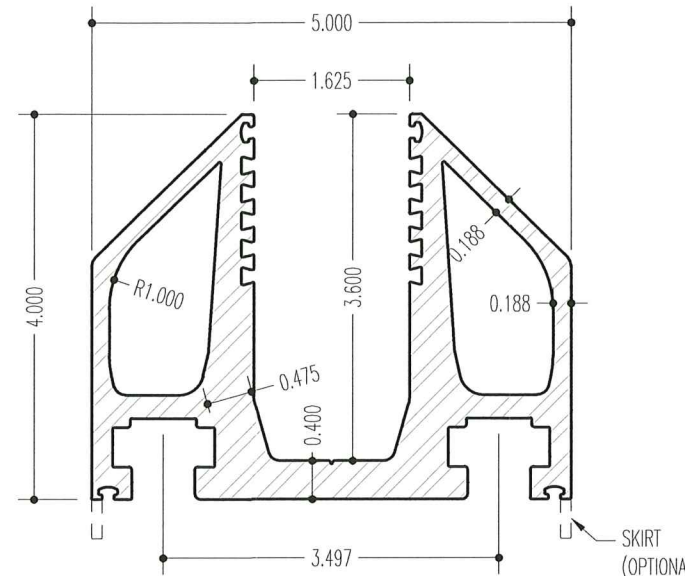
U.S. Patent No. 8,820,721



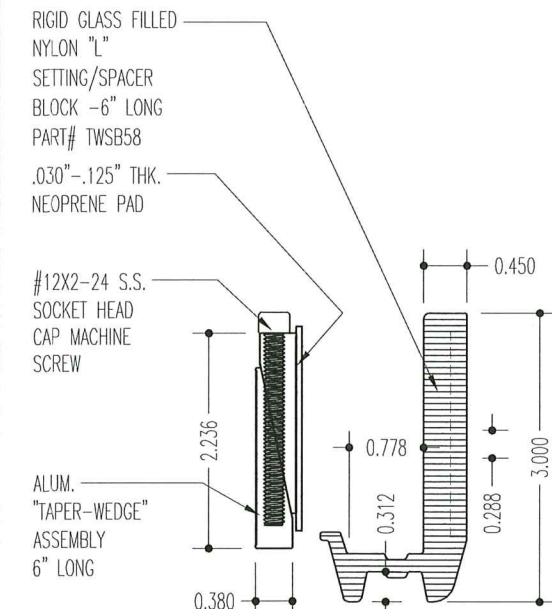
1C ITEM #1C ROUND TOP RAIL GI-4



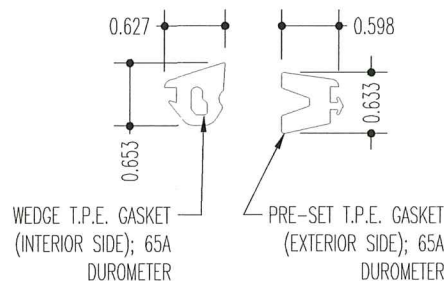
2 ITEM #2 GLASS INFILL



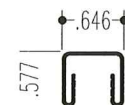
3 ITEM #3 BOTTOM RAIL RECEIVER GI-85



7 ITEM #7A/7B COMPRESSION ASSEMBLY; SHIPPED LOOSE

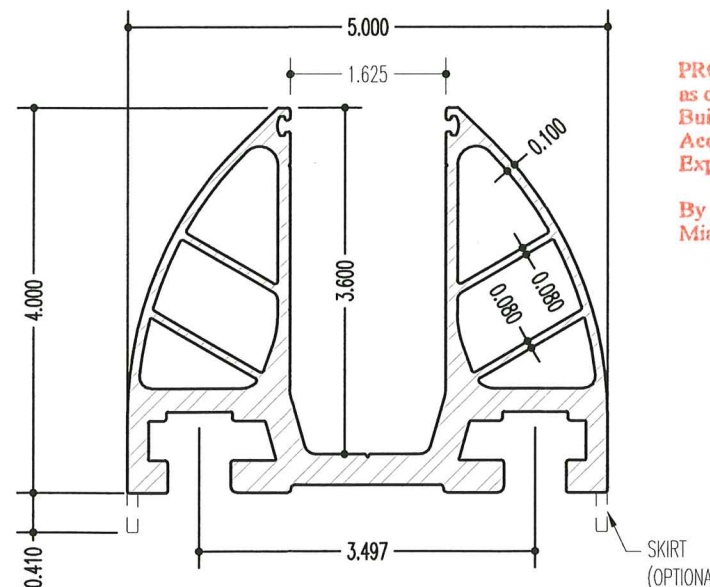


4/5 ITEM #4/5 PRE-SET & WEDGE GASKET SHIPPED LOOSE



BLACK SILICONE POSITIONING CHANNEL AS NEEDED FOR CENTERING OF GLASS IN TOP RAIL DURING INSTALLATION-2\"/>

8 ITEM #1D GLASS POSITIONING CHANNEL



3A ITEM #3A BOTTOM RAIL RECEIVER GI-86

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 25-0915-01  
 Expiration Date 04/26/2028  
 By: *Helga A. Mator*  
 Miami Date Product Control

ASHRAF F. ELBAHY, PhD, PE  
 FLORIDA PE # 52616  
 CA # 27084  
 301 Thalia Dr.  
 Orlando, FL 32807

Revisions			
No.	Date	By	Description
1	6/16/2025	J.P.	ADD ALT. BASE RAIL

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

**POMA**

POMA ARCHITECTURAL METALS  
 www.pomametals.com  
 2049 S.W. POMA DR. PALM CITY, FL 34988  
 OFFICE: 772.382.0088 FAX: 772.383.7540

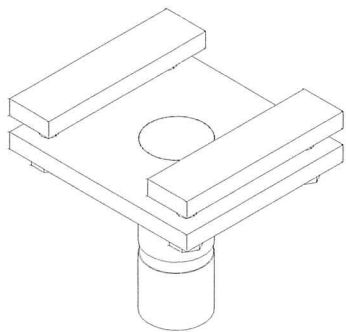
**INFINITY**

Postless Glass Railing® System  
 TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

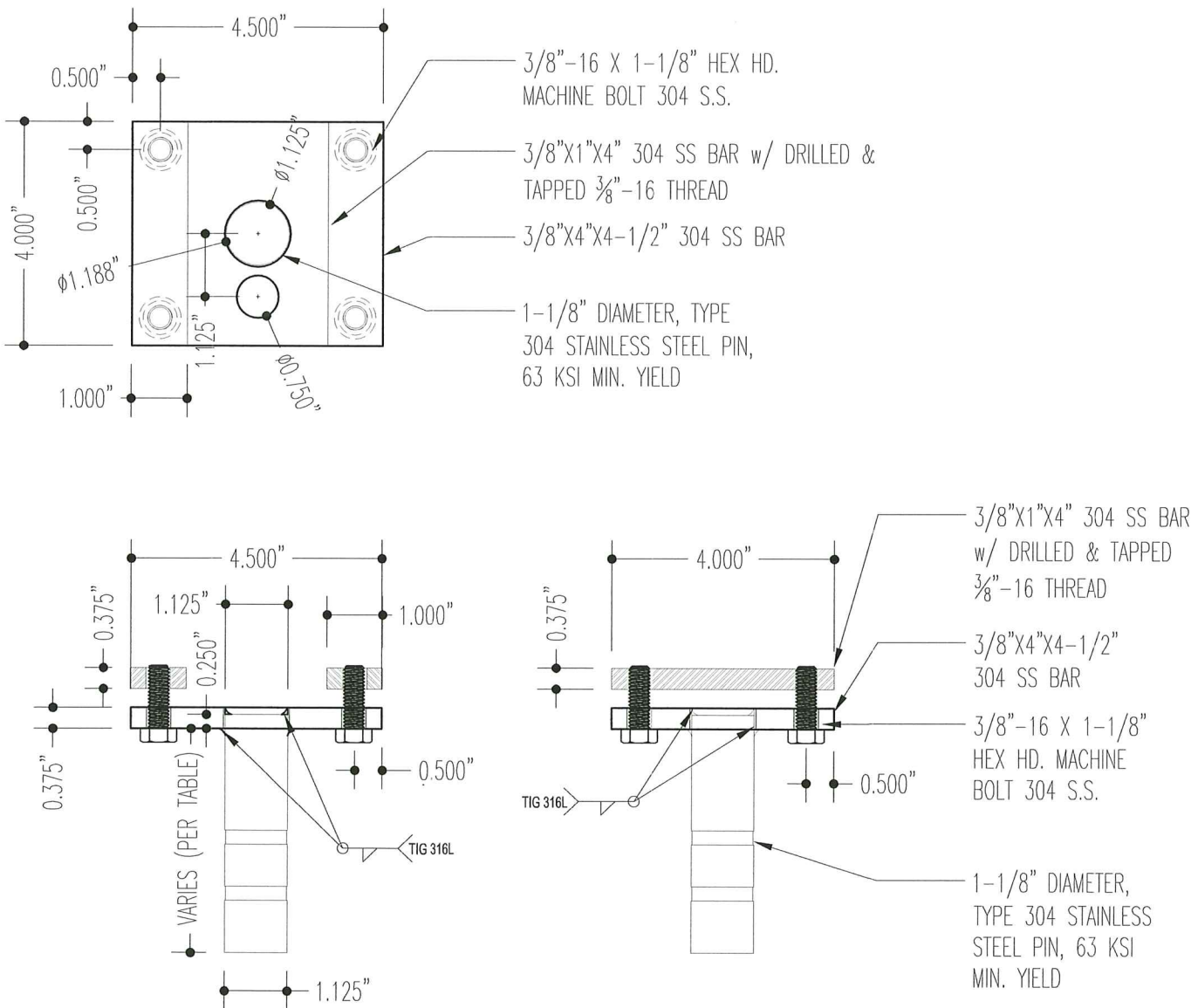
PRODUCT DESCRIPTION: INFINITY POSTLESS GR	FABRICATOR: POMA ARCHITECTURAL METALS
ADDRESS: 2049 SW POMA DR. PALM CITY, FL	ENGINEER: ASHRAF ELBAHY, PhD, PE
Sheet Size: 11X17	

Product No.: IGRS 58-1
Drawn By: JP/AB
Checked By: FP
Scale: NO SCALE
Date: FEB, 2018
Sheet No.: 8 of 16

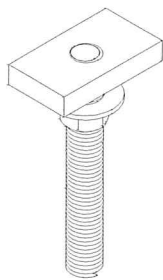




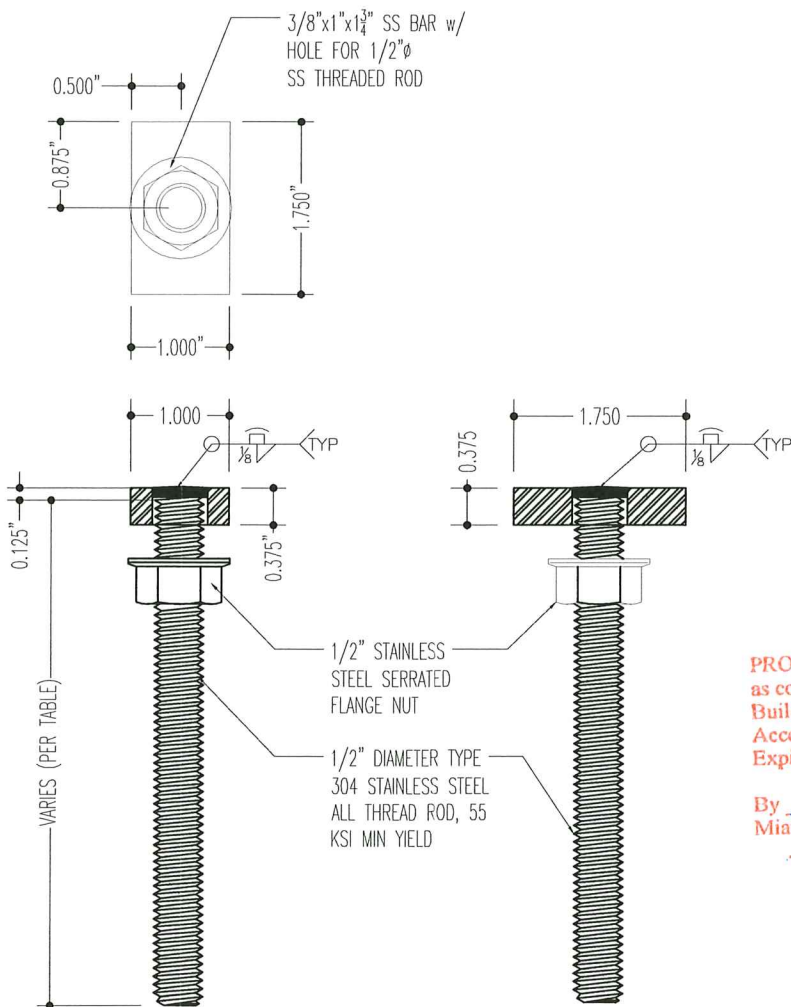
ISOMETRIC VIEW  
(FOR REFERENCE ONLY)



6A ANCHOR PIN ASSEMBLY



ISOMETRIC VIEW  
(FOR REFERENCE ONLY)



6 T-BOLT ANCHOR ASSEMBLY

MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:  
DRY GLAZED = +115 PSF & -115 PSF  
WET GLAZED= +120 PSF & -120 PSF

U.S. Patent No. 8,820,721

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915-01  
Expiration Date 09/26/2028  
By *Healy*  
Miami Dade Product Control



Revisions	
No.	Description

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

**POMA**

POMA ARCHITECTURAL METALS  
www.pomametals.com  
2049 S.W. POMA DR. PALM CITY, FL 32909  
OFFICE: 772.383.0088 FAX: 772.383.7540

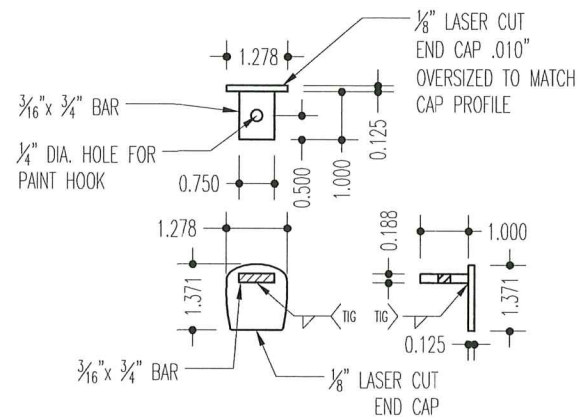
**INFINITY**

Postless Glass Railing® System  
TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

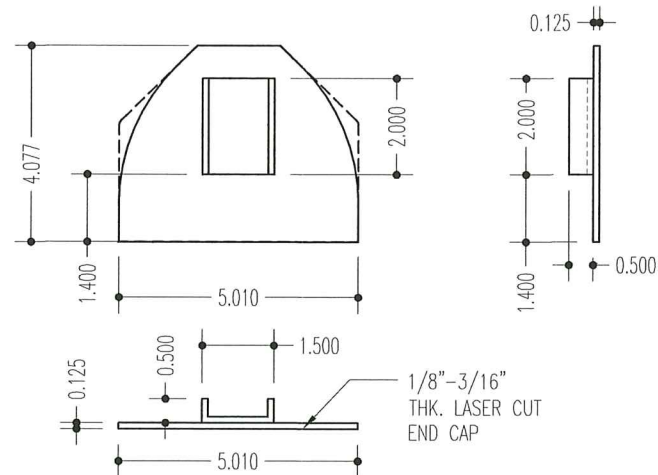
PRODUCT DESCRIPTION: INFINITY POSTLESS GR
FABRICATOR: POMA ARCHITECTURAL METALS
ADDRESS: 2049 SW POMA DR. PALM CITY, FL
ENGINEER: ASHRAF ELBAHI, PhD, PE
Sheet Size: 11X17

Product No.: IGRS 58-1
Drawn By: JP/AB
Checked By: FP
Scale: NO SCALE
Date: FEB, 2018
Sheet No.: 9 of 16

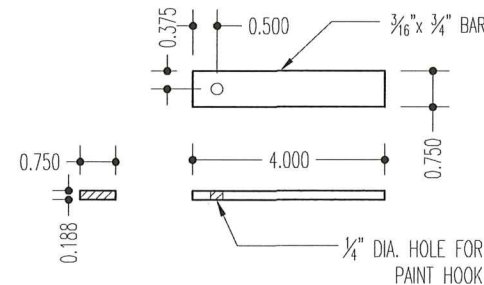




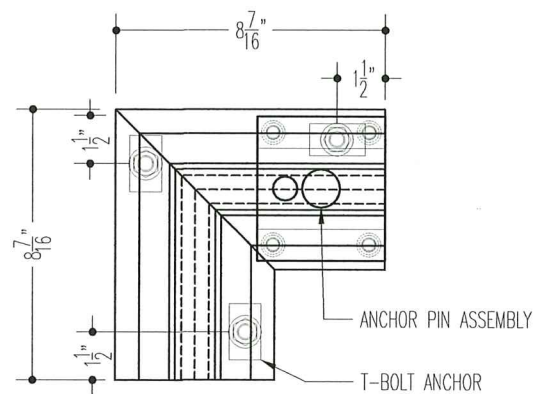
**A TOP RAIL END CAP  
SHIPPED LOOSE**  
ALLOY: ALUM. 6063-T6/5052-H32



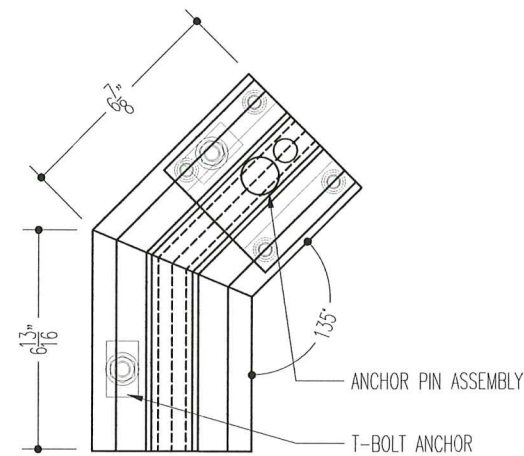
**B BOTTOM RAIL END CAP  
SHIPPED LOOSE**  
ALLOY: ALUM. 6063-T6/5052-H32



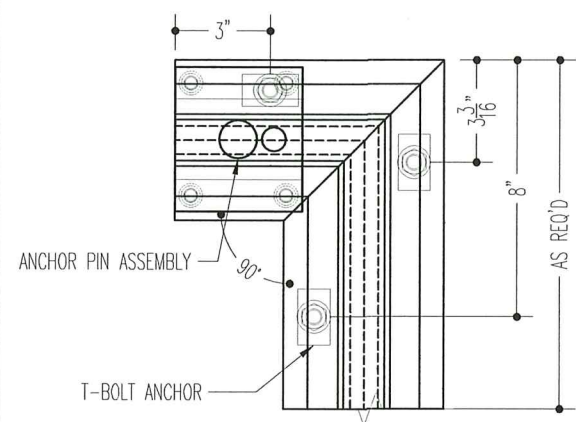
**C TOP RAIL SPLICE BAR  
SHIPPED LOOSE**  
ALLOY: ALUM. 6063-T6/6061-T6



**D 90° CORNER ASSEMBLY  
SHIPPED LOOSE**



**E 45° CORNER ASSEMBLY  
SHIPPED LOOSE**



**F 90° FULL LENGTH CORNER ASSEMBLY  
SHIPPED LOOSE**

MAXIMUM ALLOWABLE WIND DESIGN PRESSURE:  
 DRY GLAZED = +115 PSF & -115 PSF  
 WET GLAZED = +120 PSF & -120 PSF

U.S. Patent No. 8,820,721

RESERVED

Revisions			
No.	Date	By	Description

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

**POMA**

POMA ARCHITECTURAL METALS  
 www.pomametals.com  
 2049 S.W. POMA DR. PALM CITY, FL 34909  
 OFFICE: 772.352.0089 FAX: 772.352.7540

**INFINITY**

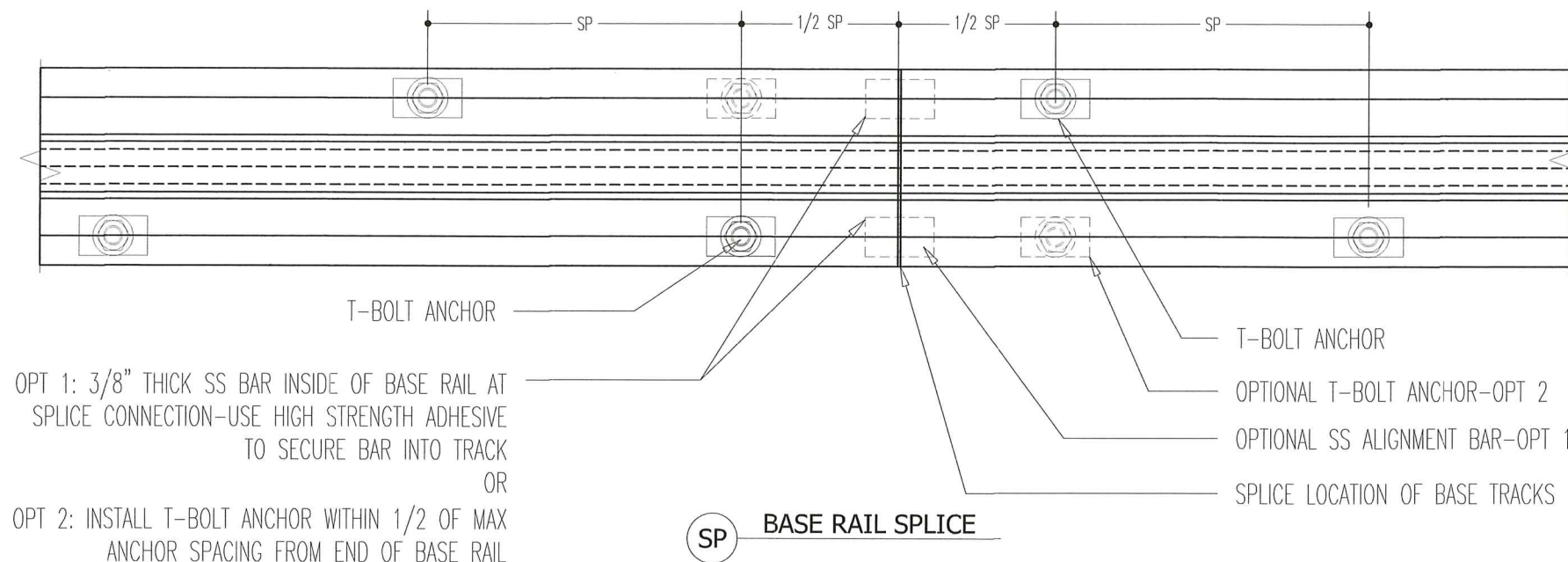
Postless Glass Railing® System  
 TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

PRODUCT DESCRIPTION: INFINITY POSTLESS GR
FABRICATOR: POMA ARCHITECTURAL METALS
ADDRESS: 2049 SW POMA DR. PALM CITY, FL
ENGINEER: ASHRAF ELBAHY, PhD, PE
Sheet Size: 11X17

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 25-0915.01  
 Expiration Date 04/26/2028  
 By H. Elba  
 Miami Dade Product Control

CA # 27084  
 301 Thapa Dr  
 Orlando, FL 32807  
 407.2616

ASHRAF ELBAHY, PhD, PE  
 FLORIDA PE # 52616

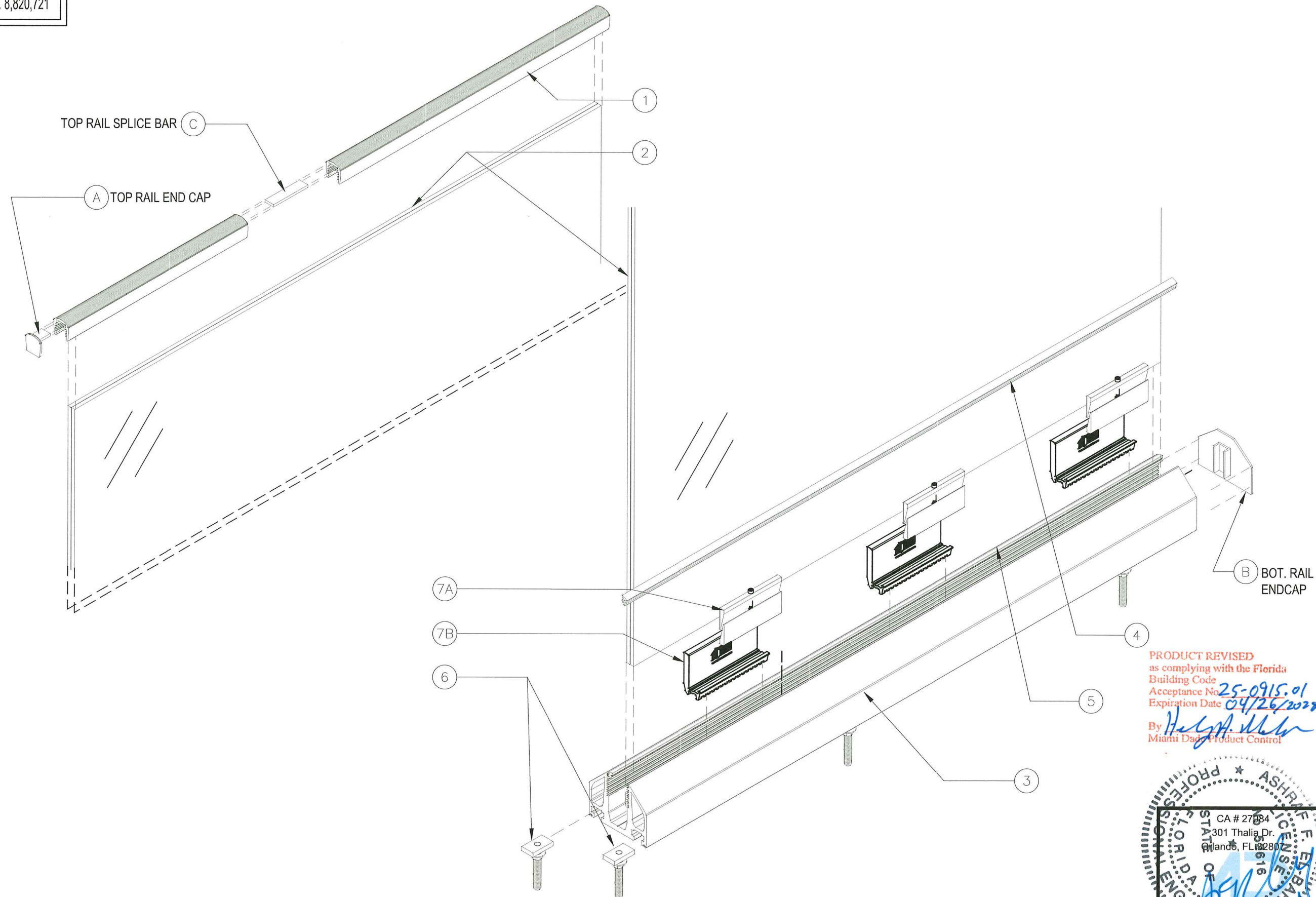


OPT 1: 3/8" THICK SS BAR INSIDE OF BASE RAIL AT  
 SPLICE CONNECTION-USE HIGH STRENGTH ADHESIVE  
 TO SECURE BAR INTO TRACK  
 OR  
 OPT 2: INSTALL T-BOLT ANCHOR WITHIN 1/2 OF MAX  
 ANCHOR SPACING FROM END OF BASE RAIL

T-BOLT ANCHOR  
 OPTIONAL T-BOLT ANCHOR-OPT 2  
 OPTIONAL SS ALIGNMENT BAR-OPT 1  
 SPLICE LOCATION OF BASE TRACKS

Product No.: IGRS 58-1
Drawn By: JP/AB
Checked By: FP
Scale: NO SCALE
Date: FEB, 2018
Sheet No.: 10 of 16





NOTE: WET GLAZED METHOD NOT SHOWN

**EXPLODED VIEW OF COMPONENTS**  
(DRY GLAZED) NO SCALE

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 04/26/2028  
By *H. Elba*  
Miami Dad Product Control

ASHRAF ELBAHY, PhD, PE  
FLORIDA PE # 52616  
CA # 27084  
301 Thalia Dr.  
Orlando, FL 32807

Revisions			
No.	Date	By	Description

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS

**POMA**

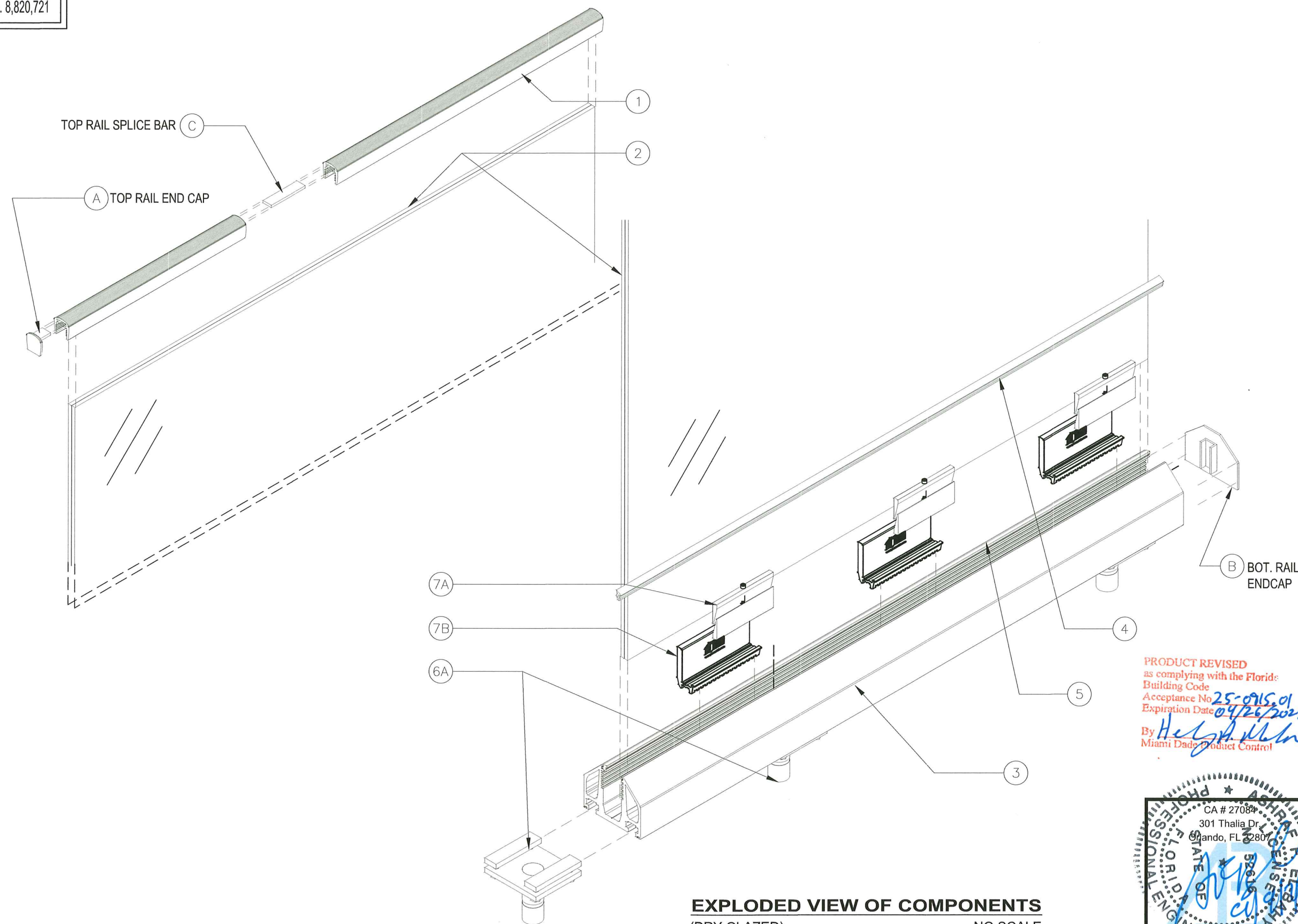
**INFINITY**

Postless Glass Railing® System  
TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

POMA ARCHITECTURAL METALS  
www.pomametals.com  
2049 S.W. POMA DR. PALM CITY, FL 34980  
OFFICE: 772.352.0099 FAX: 772.352.7540

PRODUCT DESCRIPTION: INFINITY POSTLESS GR
FABRICATOR: POMA ARCHITECTURAL METALS
ADDRESS: 2049 SW POMA DR. PALM CITY, FL
ENGINEER: ASHRAF ELBAHY, PhD, PE
Sheet Size: 11X17

Product No.: IGRS 58-1
Drawn By: JP/AB
Checked By: FP
Scale: NO SCALE
Date: FEB, 2018
Sheet No.: 11 of 16



**EXPLODED VIEW OF COMPONENTS**  
(DRY GLAZED) NO SCALE

NOTE: WET GLAZED METHOD NOT SHOWN

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 09/26/2028  
By *[Signature]*  
Miami Dade Product Control

CA # 27084  
301 Thalia Dr  
Orlando, FL 32807  
ASHRAF ELBAHY, PhD, PE  
FLORIDA PE # 52616

Revisions			
No.	Date	By	Description

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS	
<b>POMA</b>	POMA ARCHITECTURAL METALS www.pomametals.com 2049 S.W. POMA DR. PALM CITY, FL 34980 OFFICE: 772.283.0088 FAX: 772.283.7540
<b>INFINITY</b> Postless Glass Railing® System TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS	

PRODUCT DESCRIPTION: INFINITY POSTLESS GR	Sheet Size: 11X17
FABRICATOR: POMA ARCHITECTURAL METALS	
ADDRESS: 2049 SW POMA DR. PALM CITY, FL	
ENGINEER: ASHRAF ELBAHY, PhD, PE	
Product No.: IGRS 58-1	
Drawn By: JP/AB	
Checked By: FP	
Scale: NO SCALE	
Date: FEB, 2018	
Sheet No.: 12 of 16	



**BOTTOM-BASE RAIL ANCHORAGE SUMMARY CHART**  
**1-1/8" Ø ANCHOR PIN SPACING V<sub>s</sub>. CONCRETE SLAB SETTING PARAMETERS**


MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR PIN EMBEDMENT DEPTH (Hef)	MAXIMUM ANCHOR PIN SPACING (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)	
120 PSF	3.0 INCH	28.75 INCH	> 4,725 PSI	2,575 PSI	
			5,000	2,545	
			5,500	2,495	
			6,000	2,460	
		30.0 INCH	≥ 5,725 PSI	2,835 PSI	
	3.5 INCH	28.75 INCH	≥ 3,350 PSI	2,190 PSI	
			3,500	2,170	
			4,000	2,100	
			4,500	2,050	
			5,000	2,010	
			5,500	1,975	
			6,000	1,950	
			30.0 INCH	≥ 4,000 PSI	2,430 PSI
		4,500		2,355	
		5,000		2,310	
		5,500		2,260	
		31.0 INCH	6,000	2,225	
			≥ 4,600 PSI	2,590 PSI	
			5,000	2,545	
			5,500	2,500	
		4.0 INCH	28.75 INCH	6,000	2,460
				3,000 PSI	1,815 PSI
				3,500	1,755
				4,000	1,705
				4,500	1,670
	5,000			1,640	
	5,500			1,610	
	6,000			1,590	
	30.0 INCH		3,000 PSI	2,080 PSI	
			3,500	2,015	
			4,000	1,960	
			4,500	1,915	
			5,000	1,880	
			5,500	1,850	
			6,000	1,820	
			31.0 INCH	≥ 3,350 PSI	2,260 PSI
	3,500			2,235	
	4,000			2,165	
	4,500			2,120	
	5,000			2,080	
5,500	2,045				
4.5 INCH	28.75 INCH	6,000	2,020		
		3,000 PSI	1,500 PSI		
		3,500	1,460		
		4,000	1,420		
		4,500	1,390		
		5,000	1,365		
		5,500	1,345		
		6,000	1,330		
	30.0 INCH	3,000 PSI	1,730 PSI		
		3,500	1,675		
		4,000	1,630		
		4,500	1,595		
		5,000	1,570		
		5,500	1,545		
	31.0 INCH	6,000	1,525		
		3,000 PSI	1,920 PSI		
		3,500	1,860		
		4,000	1,810		
4,500		1,770			
5,000		1,735			
5,500	1,710				
6,000	1,695				

MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR PIN EMBEDMENT DEPTH (HeF)	MAXIMUM ANCHOR PIN SPACING (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)	
115 PSF	3.0 INCH	28.75 INCH	≥ 3,825 PSI	2,325 PSI	
			4,000	2,300	
			4,500	2,240	
			5,000	2,190	
			5,500	2,147	
			6,000	2,120	
		30.0 INCH	≥ 4,700 PSI	2,560 PSI	
			5,000	2,530	
			5,500	2,480	
			6,000	2,435	
		31.0 INCH	≥ 5,400 PSI	2,765 PSI	
			5,500	2,755	
	32.0 INCH	≥ 6,250 PSI	2,965 PSI		
	3.5 INCH	28.75 INCH	3,000 PSI	1,925 PSI	
			3,500	1,855	
			4,000	1,800	
			4,500	1,760	
			5,000	1,725	
			5,500	1,695	
			6,000	1,675	
			30.0 INCH	≥ 3,300 PSI	2,160 PSI
				3,500	2,150
				4,000	2,085
				4,500	2,035
				5,000	1,995
		5,500		1,960	
		31.0 INCH	6,000	1,930	
			> 3,800 PSI	2,350 PSI	
			4,000	2,335	
4,500			2,265		
5,000			2,220		
5,500			2,180		
32.0 INCH		6,000	2,145		
		≥ 4,350 PSI	2,520 PSI		
		4,500	2,500		
		5,000	2,470		
		5,500	2,405		
	6,000	2,370			

MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR PIN EMBEDMENT DEPTH (He)	MAXIMUM ANCHOR PIN SPACING (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)
115 PSF	4.0 INCH	28.75 INCH	3,000 PSI	1,550 PSI
			3,500	1,500
			4,000	1,460
			4,500	1,430
			5,000	1,405
			5,500	1,385
		6,000	1,365	
		30.0 INCH	3,000 PSI	1,800 PSI
			3,500	1,740
			4,000	1,695
			4,500	1,655
			5,000	1,625
			5,500	1,600
		6,000	1,580	
		31.0 INCH	3,000 PSI	2,030 PSI
			3,500	1,940
			4,000	1,885
			4,500	1,845
			5,000	1,810
			5,500	1,780
		6,000	1,755	
		32.0 INCH	≥ 3,175 PSI	2,195 PSI
			3,500	2,140
			4,000	2,085
	4,500		2,035	
	5,000		1,995	
	5,500		1,970	
	6,000	1,935		
	4.5 INCH	28.75 INCH	3,000 PSI	1,280 PSI
			3,500	1,240
			4,000	1,210
			4,500	1,190
			5,000	1,170
			5,500	1,150
		6,000	1,140	
		30.0 INCH	3,000 PSI	1,490 PSI
			3,500	1,445
			4,000	1,405
			4,500	1,380
			5,000	1,355
			5,500	1,335
		6,000	1,320	
31.0 INCH		3,000 PSI	1,665 PSI	
		3,500	1,610	
		4,000	1,570	
		4,500	1,535	
		5,000	1,510	
		5,500	1,485	
6,000		1,470		
32.0 INCH		3,000 PSI	1,850 PSI	
		3,500	1,785	
		4,000	1,735	
		4,500	1,700	
		5,000	1,670	
		5,500	1,645	
6,000		1,620		

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 04/26/2028  
By [Signature]  
Miami-Dade Product Control



 <b>PREMIER MANUFACTURER OF RAILINGS &amp; ARCHITECTURAL METAL PRODUCTS</b>	<b>PRODUCT DESCRIPTION:</b> INFINITY POSTLESS GR5		<b>Revisions</b>	
	<b>FABRICATOR:</b> POMA ARCHITECTURAL METALS		No.	Date
	<b>ADDRESS:</b> 2049 SW POMA DR. PALM CITY, FL		By	Description
	<b>ENGINEER:</b> ASHRAF ELBAHY, PhD, PE			
	<b>Sheet Size:</b> 11X17			
<b>INFINITY</b> Postless Glass Railing® System TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS				
<b>POMA ARCHITECTURAL METALS</b> <a href="http://www.pomametals.com">www.pomametals.com</a> 2049 SW POMA DR. PALM CITY, FL 34986 904.921.7725 / 904.177.2511 / 94				
Product No.: IGRS 58-1				
Drawn By: JP/AB				
Checked By: FP				
Scale: NO SCALE				
Date: FEB, 2018				
Sheet No.: 13 of 16				



BOTTOM-BASE RAIL ANCHORAGE SUMMARY CHART  
 1-1/8" Ø ANCHOR PIN SPACING Vs. CONCRETE SLAB SETTING PARAMETERS

MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR PIN EMBEDMENT DEPTH (Hef)	MAXIMUM ANCHOR PIN SPACING (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)
≤ 110.98 PSF  SEE CHART NOTE #9	3.0 INCH	28.75 INCH	≥ 3,475 PSI	2,205 PSI
			3,500	2,200
			4,000	2,140
			4,500	2,080
			5,000	2,035
			5,500	2,000
			6,000	1,970
		30.0 INCH	≥ 4,300 PSI	2,440 PSI
			4,500	2,410
			5,000	2,360
			5,500	2,315
			6,000	2,280
			≥ 5,000 PSI	2,625 PSI
		31.0 INCH	5,500	2,575
			6,000	2,540
			≥ 5,725 PSI	2,825 PSI
			6,000	2,800
			≥ 6,525 PSI	3,050 PSI
			3,000 PSI	1,790 PSI
	3.5 INCH	28.75 INCH	3,500	1,720
			4,000	1,675
			4,500	1,640
			5,000	1,610
			5,500	1,580
			6,000	1,560
		30.0 INCH	3,000 PSI	2,080 PSI
			3,500	2,000
			4,000	1,950
			4,500	1,900
			5,000	1,865
			5,500	1,830
		31.0 INCH	6,000	1,805
			> 3,500 PSI	2,235 PSI
			4,000	2,170
			4,500	2,120
			5,000	2,075
			5,500	2,040
		32.0 INCH	6,000	2,010
			≥ 4,050 PSI	2,400 PSI
			4,500	2,350
			5,000	2,295
			5,500	2,255
			6,000	2,220
		33.0 INCH	≥ 4,750 PSI	2,550 PSI
			5,000	2,520
			5,500	2,475
			6,000	2,435

MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR PIN EMBEDMENT DEPTH (Hef)	MAXIMUM ANCHOR PIN SPACING (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)
≤ 110.98 PSF  SEE CHART NOTE #9	4.0 INCH	28.75 INCH	3,000 PSI	1,440 PSI
			3,500	1,390
			4,000	1,355
			4,500	1,330
			5,000	1,305
			5,500	1,285
			6,000	1,270
		30.0 INCH	3,000 PSI	1,680 PSI
			3,500	1,620
			4,000	1,580
			4,500	1,550
			5,000	1,520
			5,500	1,495
			6,000	1,475
		31.0 INCH	3,000 PSI	1,880 PSI
			3,500	1,815
			4,000	1,770
			4,500	1,725
			5,000	1,685
			5,500	1,665
			6,000	1,645
		32.0 INCH	3,000 PSI	2,080 PSI
			3,500	2,010
			4,000	1,955
			4,500	1,910
			5,000	1,875
			5,500	1,845
		33.0 INCH	6,000	1,820
			> 3,350 PSI	2,240 PSI
			3,500	2,210
			4,000	2,150
			4,500	2,100
			5,000	2,060
			5,500	2,025
			6,000	1,995

MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR PIN EMBEDMENT DEPTH (Hef)	MAXIMUM ANCHOR PIN SPACING (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)
≤ 110.98 PSF  SEE CHART NOTE #9	4.5 INCH	28.75 INCH	3,000 PSI	1,165 PSI
			3,500	1,150
			4,000	1,125
			4,500	1,105
			5,000	1,085
			5,500	1,075
			6,000	1,075 (MIN)
		30.0 INCH	3,000 PSI	1,400 PSI
			3,500	1,350
			4,000	1,310
			4,500	1,285
			5,000	1,265
			5,500	1,245
			6,000	1,230
		31.0 INCH	3,000 PSI	1,550 PSI
			3,500	1,505
			4,000	1,465
			4,500	1,440
			5,000	1,415
			5,500	1,395
			6,000	1,375
		32.0 INCH	3,000 PSI	1,740 PSI
			3,500	1,670
			4,000	1,630
			4,500	1,595
			5,000	1,565
			5,500	1,540
		33.0 INCH	6,000	1,530
			3,000 PSI	1,900 PSI
			3,500	1,840
			4,000	1,790
			4,500	1,755
			5,000	1,720
			5,500	1,685
			6,000	1,660

INFINITY ANCHOR PIN BOTTOM-BASE RAIL ANCHORAGE SUMMARY CHART NOTES:

- ALL ANCHOR PIN EMBEDMENT PARAMETERS LISTED (Hef, Sp, F'c, AND F'uncr) ARE BASED ON THE FOLLOWING SETTING PARAMETERS:  
 A) ANCHOR PIN EDGE DISTANCE (Ca1) = 6" (MIN)  
 B) CONCRETE SLAB THICKNESS (Ha) MUST NOT BE LESS THAN THE 1 1/2" x Hef, AS FOLLOWING, WHERE Ca1 = 6" (MIN):

Hef	Ha
3.0 Inch	4.5 Inch
3.5	5.25
4.0	6.0
4.5	

- ANCHOR PIN SHALL CONSIST OF A.I.S.I. TYPE 304 STAINLESS STEEL (OR EQUAL) WITH ULTIMATE TENSILE STRENGTH ≥ 101 KSI, WITH MINIMUM YIELD STRENGTH = 83 KSI.
- ANCHOR PIN HOLE DIAMETER (Do) IS BASED ON 2 INCH DIAMETER. LARGER HOLE DIAMETER MAY REQUIRE INCREASE IN EDGE DISTANCE (Ca1) AND/OR INCREASE IN DESIGNATED MINIMUM SLAB THICKNESS (Ha).
- ANCHOR PIN HOLE DEPTH MUST BE DRILLED NO LESS THAN 1/8" DEEPER THAN SPECIFIED ANCHOR PIN EMBEDMENT DEPTH Hef, AND NO GREATER THAN 1/4" DEEPER THAN DESIGNATED Hef.

- EXISTING CONCRETE SLAB MUST BE PROVIDED WITH CONTINUOUS EDGE REINFORCING BAR, OR OTHER SUPPLEMENTAL EDGE REINFORCING STEEL.

- THE ANCHOR PIN EMBEDMENT PARAMETERS, AS LISTED, HAS BEEN DETERMINED IN STRICT CONFORMANCE WITH ACI 318-14, CHAPTER 17, CRITERIA FOR ANCHORING STEEL ELEMENTS INTO EXISTING CONCRETE, WITH AMENDMENTS PRESCRIBED BY AC308-2013, EFFECTIVE AUGUST 2016 (AS INCORPORATED IN ACI 318-14, CHAPTER 17), CURRENTLY ADOPTED AND APPLIED IN ACI 318-19 (REAPPROVED 2022). THE LIMIT STATE FAILURE MODE FOR THE ANCHOR PIN EMBEDMENT PARAMETERS, AS LISTED, IS BASED ON THE MINIMUM CHARACTERISTIC BOND STRESS VALUES.

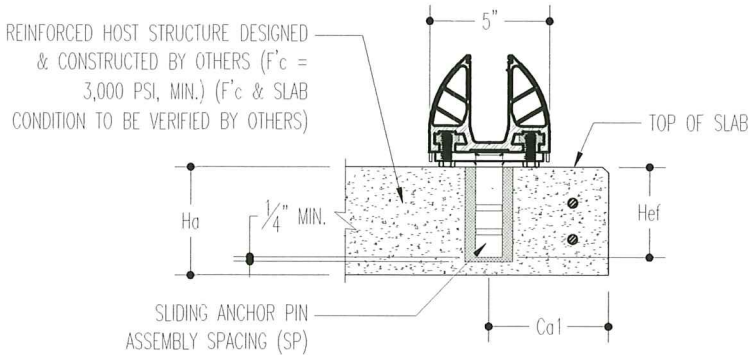
- INFINITY (POSTLESS) GLASS RAILING SYSTEM HAS BEEN LABORATORY TESTED IN CONFORMANCE WITH TAS 202-94 FOR STRUCTURAL TEST PRESSURE UP TO 240 PSF (POS. & NEG.) WITH 1 1/8" Ø ANCHOR PIN EMBEDDED WITH SIKADUR ® 32, HI-MOD, LPL EPOXY BONDING ADHESIVE AND IS APPROVED FOR DEIGN WIND PRESSURE EQUAL TO OR LESS THAN 130 PSF (POS. OR NEG.).

- EPOXY OR GROUT ANCHORING PRODUCTS (OTHER THAN SIKADUR ® 32, HI-MOD, LPL EPOXY) SELECTED FOR EMBEDDING THE 1 1/8" Ø ANCHOR PIN INTO EXISTING CONCRETE SLAB MUST HAVE A CHARACTERISTIC BOND STRESS VALUE (F'uncr) DETERMINED BY PRODUCT TESTING, OR PUBLISHED ANCHOR PRODUCT MANUFACTURER'S TEST DATA, PERFORMED IN ACCORDANCE WITH LATEST EDITION OF ASTM E488 TESTING STANDARDS AND/OR ACI 355.4. THE CHARACTERISTIC BOND STRESS VALUE (F'uncr) LISTED IN THE SUMMARY CHART IS BASED ON UNCRACKED CONCRETE WITH ANCHOR PIN INSTALLED IN ROTARY HAMMER DRILLED HOLE WHICH IS CLEANED AND DRY AT TIME ANCHOR PIN IS SET.

- DESIGN BENDING MOMENT ON GLASS RAILING SYSTEM IS GOVERNED BY CODE PRESCRIBED LIVE LOAD, 2023 FBC-B SECTION 1607.9.1 = 50 PLF, WITH REQUIRED SAFETY FACTOR OF 4 PER SECTION 2407.1.1, FOR GUARDRAILS INSTALLED WHERE DESIGN WIND PRESSURE ≤ 108.5 PSF. LATERAL SHEAR ON GLASS RAILING SYSTEM IS GOVERNED BY DESIGN WIND PRESSURE > 55 PSF.

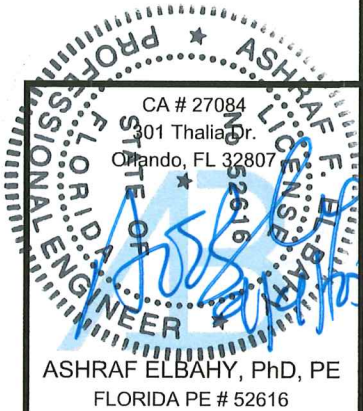
- INTERPOLATION BETWEEN DESIGNATED WIND DESIGN PRESSURES AND ANCHOR PIN EMBEDMENT PARAMETERS (Hef, Sp, F'c, AND F'uncr) IS ALLOWED, FOR EDGE DISTANCE Ca1 ≥ 6 INCHES AT MINIMUM SLAB THICKNESS (Ha) DESIGNATED.

- SITE SPECIFIC STRUCTURAL CALCULATIONS SHALL BE PERFORMED BY THE E.O.R., OR DELEGATED DESIGN PROFESSIONAL, TO DETERMINE ANCHOR PIN EMBEDMENT LENGTH AND ANCHOR PIN EDGE DISTANCE, FOR INSTALLATION OF THE INFINITY RAILING ANCHOR PIN SYSTEM INTO SLAB THICKNESS WITH CONCRETE COMPRESSIVE STRENGTHS, WHICH ARE NOT LISTED WITHIN THE ANCHORAGE SUMMARY CHARTS.



BOTTOM-BASE RAIL  
 1-1/8" DIA. ANCHOR PIN SETTING DIAGRAM

**PRODUCT REVISED**  
 as complying with the Florida:  
 Building Code  
 Acceptance No. 25-0915.01  
 Expiration Date 09/26/2028  
 By: *[Signature]*  
 Miami Data Product Control



Revisions		Description	
No.	Date	By	Update Code References To
1	10/31/2024	T.B.	2023 FBC-B

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS  
**POMA**  
 POMA ARCHITECTURAL METALS  
 www.pomametals.com  
 2049 S.W. POMA DR. PALM CITY, FL 32909  
 OFFICE: 772.283.0088 FAX: 772.283.1540  
**INFINITY**  
 Postless Glass Railing® System  
 TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

PRODUCT DESCRIPTION: INFINITY POSTLESS GRs
FABRICATOR: POMA ARCHITECTURAL METALS
ADDRESS: 2049 SW POMA DR. PALM CITY, FL
ENGINEER: ASHRAF ELBAHI, PhD, PE
Sheet Size: 11X17

Product No.: IGRS 58-1
Drawn By: JP/AB
Checked By: FP
Scale: NO SCALE
Date: FEB, 2018
Sheet No.: 14 of 16



BOTTOM-BASE RAIL ANCHORAGE SUMMARY CHART  
 T-BOLT ANCHOR SPACING Vs. CONCRETE SLAB & SETTING PARAMETERS

MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR BOLT EMBEDMENT DEPTH (Hef)	MINIMUM ANCHOR BOLT EDGE DISTANCE (Cat)	MAXIMUM T-BOLT SPACING (STAGGERED) (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)
120 PSF	3.0 INCH	4.25 INCH	7.75 INCH	3,000 PSI	1,845 PSI
			8.0	3,150	1,930
			8.50	3,500	2,083
			9.0	4,000	2,300
			9.75	4,500	2,480
			10.0	4,700	2,560
			10.25	5,000	2,640
			10.875	5,500	2,835
			11.0	5,540	2,875
			11.50	6,000	3,050
			8.75 INCH	3,000 PSI	1,735 PSI
	3.5 INCH		9.0	3,100	1,800
			9.50	3,500	1,930
			10.0	3,700	2,065
			10.25	4,000	2,130
			11.0	4,500	2,350
			11.75	5,000	2,530
			12.0	5,100	2,580
			12.25	5,500	2,660
			13.0	6,000	2,845
			10.0 INCH	3,000 PSI	1,710 PSI
			4.0 INCH	10.75	3,500
	11.0			3,550	1,925
	11.75			4,000	2,110
	12.0			4,100	2,150
	12.50			4,500	2,260
	13.0			4,725	2,370
	13.25			5,000	2,425
	14.0			5,500	2,585
	15.0			6,000	2,800
	11.0 INCH			3,000 PSI	1,625 PSI
	4.5 INCH			12.0	3,350
			12.25	3,500	1,865
			13.0	3,850	2,070
			13.25	4,000	2,125
			14.0	4,400	2,270
			14.25	4,500	2,245
			15.0	5,000	2,385
			16.0	5,500	2,670
			16.75	6,000	2,820

MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR BOLT EMBEDMENT DEPTH (Hef)	MINIMUM ANCHOR BOLT EDGE DISTANCE (Cat)	MAXIMUM T-BOLT SPACING (STAGGERED) (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)
115 PSF	3.0 INCH	4.0 INCH	7.75 INCH	3,000 PSI	1,830 PSI
			8.0	3,150	1,910
			8.50	3,500	2,060
			9.0	4,000	2,215
			9.75	4,500	2,450
			10.0	4,700	2,525
			10.25	5,000	2,610
			10.75	5,500	2,760
			11.0	5,600	2,835
			11.50	6,000	2,990
			8.75 INCH	3,000 PSI	1,720 PSI
	3.5 INCH		9.0	3,100	1,785
			9.5	3,500	1,920
			10.0	3,700	2,042
			10.25	4,000	2,110
			11.0	4,500	2,300
			11.75	5,000	2,490
			12.0	5,100	2,555
			12.25	5,500	2,615
			13.0	6,000	2,810
			10.0 INCH	3,000 PSI	1,690 PSI
			4.0 INCH	10.75	3,500
	11.0			3,550	1,915
	11.75			4,000	2,075
	12.0			4,100	2,150
	12.50			4,500	2,235
	13.0			4,725	2,360
	13.25			5,000	2,390
	14.0			5,500	2,580
	15.0			6,000	2,815
	11.25 INCH			3,000 PSI	1,745 PSI
	4.5 INCH			12.0	3,300
			12.25	3,500	1,950
			13.0	3,850	2,105
			13.25	4,000	2,150
			14.0	4,400	2,305
			14.25	4,500	2,355
			15.0	5,000	2,497
			16.0	5,500	2,710
			16.75	6,000	2,845

MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR BOLT EMBEDMENT DEPTH (Hef)	MINIMUM ANCHOR BOLT EDGE DISTANCE (Cat)	MAXIMUM T-BOLT SPACING (STAGGERED) (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (F'uncr)	
≤ 110.98 PSF  SEE CHART NOTE # 6	3.0 INCH	4.0 INCH	8.0 INCH	3,000 PSI	1,830 PSI	
			8.75	3,500	2,055	
			9.0	3,670	2,130	
			9.25	4,000	2,204	
			10.0	4,500	2,430	
			10.50	5,000	2,580	
			11.0	5,275	2,725	
			11.25	5,500	2,800	
			11.75	6,000	2,947	
			9.0 INCH	3,000 PSI	1,712 PSI	
	3.5 INCH		10.0	3,500	1,960	
			10.75	4,000	2,147	
			11.0	4,150	2,210	
			11.50	4,500	2,331	
			12.0	4,850	2,460	
			12.25	5,000	2,515	
			12.875	5,500	2,667	
			13.0	5,550	2,699	
			13.50	6,000	2,819	
			10.25 INCH	3,000 PSI	1,673 PSI	
	4.0 INCH		11.0	3,300	1,840	
			11.25	3,500	1,890	
			12.0	3,850	2,070	
			12.25	4,000	2,125	
			13.0	4,500	2,270	
			13.75	5,000	2,425	
			14.0	5,050	2,490	
			14.75	5,500	2,650	
			15.0	5,625	2,705	
			15.50	6,000	2,807	
	11.75 INCH		3,000 PSI	1,775 PSI		
	4.5 INCH		12.0	3,100	1,830	
			12.75	3,500	1,970	
			13.0	3,575	2,025	
			13.75	4,000	2,165	
			14.0	4,100	2,220	
			14.75	4,500	2,360	
			15.0	4,550	2,415	
			15.75	5,000	2,555	
			16.0	5,100	2,640	
			16.75	5,500	2,750	
			17.0	5,600	2,800	
	17.50		6,000	2,885		

Revisions				
No.	Date	By	Description	

PREMIER MANUFACTURER OF RAILINGS & ARCHITECTURAL METAL PRODUCTS
 



POMA ARCHITECTURAL METALS  
 www.pomametals.com  
 2049 S.W. POMA DR. PALM CITY, FL 34980  
 OFFICE: 772.383.0008 FAX: 772.383.7540

INFINITY  
 Postless Glass Railing® System  
 TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS

PRODUCT DESCRIPTION: INFINITY POSTLESS GR5	FABRICATOR: POMA ARCHITECTURAL METALS	ADDRESS: 2049 SW POMA DR. PALM CITY, FL	ENGINEER: ASHRAF ELBAHY, PhD, PE	Sheet Size: 11X17
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Product No.: IGRS 58-1
Drawn By: JP/AB
Checked By: FP
Scale: NO SCALE
Date: FEB, 2018
Sheet No.: 15 of 16

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 25-0915.01  
 Expiration Date 04/26/2028  
 By: *[Signature]*  
 Miami Dade Product Control

ASHRAF ELBAHY, PhD, PE  
 FLORIDA PE # 52616

CA # 27084  
 301 Thane Dr.  
 Orlando, FL 32807  
 52616

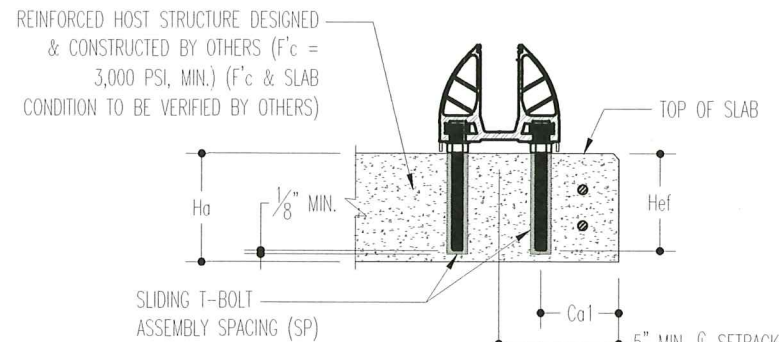


MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR BOLT EMBEDMENT DEPTH (He)	MINIMUM ANCHOR BOLT EDGE DISTANCE (Ca)	MAXIMUM T-BOLT SPACING (STAGGERED) (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (Fbc)
≤ 110.98 PSF	3.0 INCH	3.5 INCH	7.25 INCH	3,000 PSI	1,795 PSI
			7.75	3,500	1,950
			8.0	3,600	2,030
			8.50	4,000	2,185
			9.0	4,500	2,345
			9.50	5,000	2,500
			10.0	5,500	2,660
			10.50	6,000	2,820
	3.5 INCH		8.25 INCH	3,000 PSI	1,710 PSI
			9.0	3,500	1,920
			9.75	4,000	2,125
			10.0	4,150	2,180
			10.25	4,500	2,245
			11.0	5,000	2,475
			11.50	5,500	2,580
			12.0	5,725	2,730
	4.0 INCH		12.25	6,000	2,790
			9.50 INCH	3,000 PSI	1,800 PSI
			10.0	3,250	1,925
			10.25	3,500	1,975
			11.0	4,000	2,170
			12.0	4,500	2,410
			12.75	5,000	2,590
			13.0	5,200	2,650
	4.5 INCH		13.25	5,500	2,695
			14.0	6,000	2,880
			10.0 INCH	3,000 PSI	1,685 PSI
			11.0	3,100	1,960
11.75		3,500	2,120		
12.0		3,600	2,160		
12.50		4,000	2,275		
13.0		4,150	2,420		
13.50		4,500	2,505		
14.0		4,725	2,650		
14.50		5,000	2,735		
15.0		5,275	2,850		
15.25	5,500	2,900			
16.0	6,000	3,075			

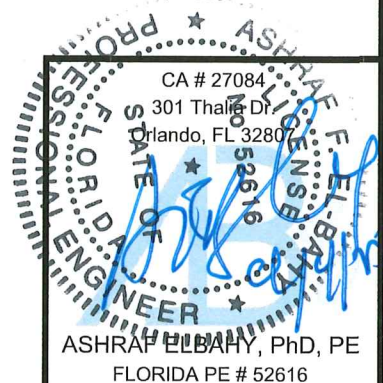
MAXIMUM DESIGN WIND PRESSURE (NEG. OR POS.) (Pw)	MINIMUM ANCHOR BOLT EMBEDMENT DEPTH (Hef)	MINIMUM ANCHOR BOLT EDGE DISTANCE (Cef)	MAXIMUM T-BOLT SPACING (STAGGERED) (Sp)	MINIMUM CONCRETE SLAB COMPRESSIVE STRENGTH (F'c)	MINIMUM CHARACTERISTIC BOND STRESS (Funcr)
≤110.98 PSF  SEE CHART NOTE # 6	3.0 INCH	3.25 INCH	6.75 INCH	3,000 PSI	1,730 PSI
			7.0	3,100	1,815
			7.25	3,500	1,890
			8.0	4,000	2,135
			8.50	4,500	2,295
			9.0	5,000	2,460
			9.50	5,500	2,615
			10.0	6,000	2,775
	3.5 INCH		7.75 INCH	3,000 PSI	1,720 PSI
			8.0	3,050	1,795
			8.50	3,500	1,930
			9.0	3,750	2,085
			9.25	4,000	2,150
			9.75	4,500	2,290
			10.0	4,550	2,370
			10.50	5,000	2,505
	4.0 INCH		11.0	5,500	2,645
			11.50	6,000	2,780
			9.25 INCH	3,000 PSI	1,920 PSI
			9.75	3,500	2,030
			10.0	3,550	2,125
			10.50	4,000	2,220
			11.0	4,200	2,370
			11.25	4,500	2,415
	4.5 INCH		12.0	5,000	2,610
			12.75	5,500	2,810
			13.0	5,650	2,880
			13.50	6,000	3,010
			10.25 INCH	3,000 PSI	1,975 PSI
			11.0	3,350	2,170
			11.25	3,500	2,220
			12.0	4,000	2,380
			13.0	4,500	2,645
			13.75	5,000	2,815
			14.0	5,100	2,885
			14.50	5,500	2,990
			15.0	5,700	3,150
			15.50	6,000	3,250

1. T-BOLT ANCHOR SPACING SUMMARIES REFLECT THE STAGGERED BOLT SPACING DIMENSION (Sp). ALTERNATIVE BOLT SPACING MAY BE USED, WHEN CALCULATIONS ARE CONDUCTED TO DETERMINE CONCRETE SLAB PARAMETERS, F'c, Hef, AND Ca1.
2. CONCRETE SLAB THICKNESS (Ha) MUST NOT BE LESS THAN THE  $1\frac{1}{2}" + H_{ef}$ , AS FOLLOWING:

<u>H<sub>ef</sub></u>	<u>H<sub>a</sub></u>
3.0 Inch	4.5 Inches (MIN.)
3.5	5.0
4.0	5.5
4.5	6.0
3. T-BOLT ALL-THREAD-ROD (ATR) SHALL CONSIST OF A I.S.I. TYPE 304 STAINLESS STEEL, CONFORMING TO ASTM F593 CW THAT PROVIDE ULTIMATE TENSILE STRENGTH  $\geq 100$  KSI, WITH MINIMUM YIELD STRENGTH = 55 KSI., OR EQUAL.
4. T-BOLT (ATR) HOLE DEPTH MUST BE DRILLED NO LESS THAN 1/4" DEEPER THAN SPECIFIED BOLT EMBEDMENT DEPTH, Hef.
5. THE T-BOLT ANCHOR SPACING SUMMARY CHART MAY BE USED WITH ANY NON-CORROSIVE EPOXY OR GROUT, RECOGNIZED AS AN ANCHORING ADHESIVE FOR THREADED STEEL ANCHOR RODS, WHICH HAS A CHARACTERISTIC BOND STRESS VALUE ( $\tau_{uncr}$ ), DETERMINED BY PRODUCT TESTING IN CONFORMANCE WITH ICC-ES AC308, OR ANCHOR ADHESIVE MANUFACTURER'S PRODUCT TEST DATA, PERFORMED IN ACCORDANCE WITH LATEST EDITION OF ASTM E488. TESTING STANDARDS AND/OR ACI 355.4, FOR UNCRACKED CONCRETE, INSTALLED IN TEMPERATURE CATEGORY 'A', DRY CONDITION.
6. DESIGN BENDING MOMENT ON GLASS RAILING SYSTEM IS GOVERNED BY CODE PRESCRIBED LIVE LOAD, 2023 FBC-B, SECTION 1607.9.1 = 50 PLF, WITH REQUIRED SAFETY FACTOR OF 4 PER SECTION 2407.1.1, FOR GUARDRAILS INSTALLED WHERE DESIGN WIND PRESSURE  $\leq 110.98$  PSF. LATERAL SHEAR ON GLASS RAILING SYSTEM IS GOVERNED BY DESIGN WIND PRESSURE  $> 55.6$  PSF.
7. INTERPOLATION BETWEEN DESIGNATED WIND DESIGN PRESSURES, THE T-BOLT ANCHOR SPACING, AND CHARACTERISTIC BOND STRESS IS ALLOWED FOR THE T-BOLT ANCHOR BOLT EDGE DISTANCE (Ca1) LISTED, OR GREATER.



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0915.01  
Expiration Date 09/26/2028  
By *Healy*  
Miami Dade Product Control



<b>PREMIER MANUFACTURER OF RAILINGS &amp; ARCHITECTURAL METAL PRODUCTS</b>		<b>poma</b> <b>POMA ARCHITECTURAL METALS</b> <b>www.pomametals.com</b> 2049 SW POMA DR. PALM CITY, FL 32909 OFFICE: 772.283.2099 FAX: 772.283.7244		<b>INFINITY</b>  Postless Glass Railing® System  TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PRODUCT CONTROL REQUIREMENTS	
PRODUCT DESCRIPTION: INFINITY POSTLESS GRS		No.	Date	By	Description
FABRICATOR: POMA ARCHITECTURAL METALS		2	10/31/2024	T.B.	UPDATE CODE REFERENCES TO 2023 FBC-B
ADDRESS: 2049 SW POMA DR. PALM CITY, FL					
ENGINEER: ASHRAF ELBAHY, PhD, PE					
Sheet Size: 11X17					
Product No.: IGRS 58-1					
Drawn By: JP/AB					
Checked By: FP					
Scale: NO SCALE					
Date: FEB, 2018					
Sheet No.: 16 of 16					