

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

NOTICE OF ACCEPTANCE (NOA)

Infinite Windows, LLC 1612 NW 84th Avenue Doral, Florida 33126

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: Series IR-2000 Aluminum Bass Shoe Glass Railing System

APPROVAL DOCUMENT: Drawing No. JA-1836-24, titled "Series IR-2000 Aluminum Bass Shoe Railing System", sheets 1 through 7 of 7, including 3.1 & 3.2, prepared by Javad Ahmad PE, Inc., dated Oct. 17, 2024, last revised on 10/18/2024, signed and sealed by Javad Ahmad, P.E., on Jan. 16, 2025, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval 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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

HelpA.Nelv 02/06/25

NOA No. 24-1105.03 Expiration Date: 02/06/2030 Approval Date: 02/06/2025

Page 1

Infinite Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. JA-1836-24, titled "Series IR-2000 Aluminum Bass Shoe Railing System", sheets 1 through 7 of 7, including 3.1 & 3.2, prepared by Javad Ahmad PE, Inc., dated Oct. 17, 2024, last revised on 10/18/2024, signed and sealed by Javad Ahmad, P.E., on Jan. 16, 2025.

B. TESTS

- 1. Test Report No. **BT-INF-18-004**, by Blackwater Testing, Inc., dated 11/28/2018, signed and sealed by Constatin Bortes, P.E., testing Infinite Windows 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-INF-18-002**, by Blackwater Testing, Inc., dated 11/12/2018, signed and sealed by Constatin Bortes, P.E., testing Infinite Windows 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 "Infinite Windows LLC Design Glass Railing System", 22 pages, prepared by Javad Ahmad PE, Inc., dated Oct. 25, 2024, signed and sealed by Javad Ahmad, P.E., on Nov. 04, 2024.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. **FBC, 2023 Edition Compliance Letter** prepared by Javad Ahmad PE, Inc., dated Oct. 31, 2024, signed and sealed by Javad Ahmad, P.E., on Nov. 04, 2024.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

> NOA No. 24-1105.03 Expiration Date: 02/06/2030

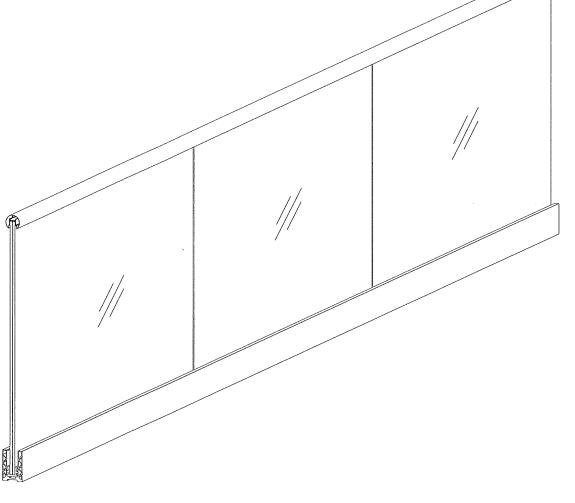
Approval Date: 02/06/2025

		SHEET INDEX
	01	COVER PAGE
	02	TYPICAL ELEVATION / GLASS DETAIL
_	03	SECTION DETAILS
	04	SECTION DETAILS
	05	PROFILE DETAIL
	06	PROFILE DETAIL
	07	INSTALLATION DETAILS

TO OBTAIN AUTOCAD/REVIT COMPATIBLE DETAILS OF THIS PRODUCT, KINDLY GET IN TOUCH WITH US CONTACTING US VIA OUR OFFICIAL EMAIL ADDRESS: CONTACT@JA-PE.COM.

SERIES IR-2000 ALUMINUM BASE SHOE RAILING SYSTEM

(LARGE MISSILE IMPACT)



GENERAL NOTES

- THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE IN HIGH VELOCITY HURRICANE ZONE PER TAS 201/202.
- 2. THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 2 SAFETY FACTOR.
- 3. THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES, IT IS CONFIRMED TO BE RESISTANT TO LARGE MISSILE IMPACT, THEREBY NOT NECESSITATING THE USE OF IMPACT-RESISTANT SHUTTERS.
- 4. THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS, FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD=1.6 HAS BEEN EMPLOYED.
- 5. THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES, COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.

- THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE. A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC ONE TIME APPROVAL DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.
- 7. THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).
- 8. THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (FU = 74,000 PSI).
- 9. THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY, ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.
- 10. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.
- 11. ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.

- 12. PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
- 13. EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION: INFINITE WINDOWS.LLC

1612 N.W. 84TH AVE DORAL,FL 33126. (PH): (786) 518-3725 www.infinitewindows.com

approved as complying with the



IAVAD AHMAD PE, inc

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PROJECT:

SERIES IR-2000 ALUMINUM BASE SHOE GLASS RAILING SYSTEM (L.M.I.)

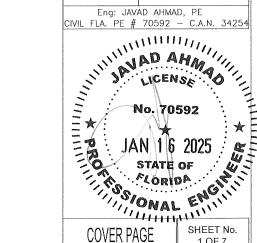
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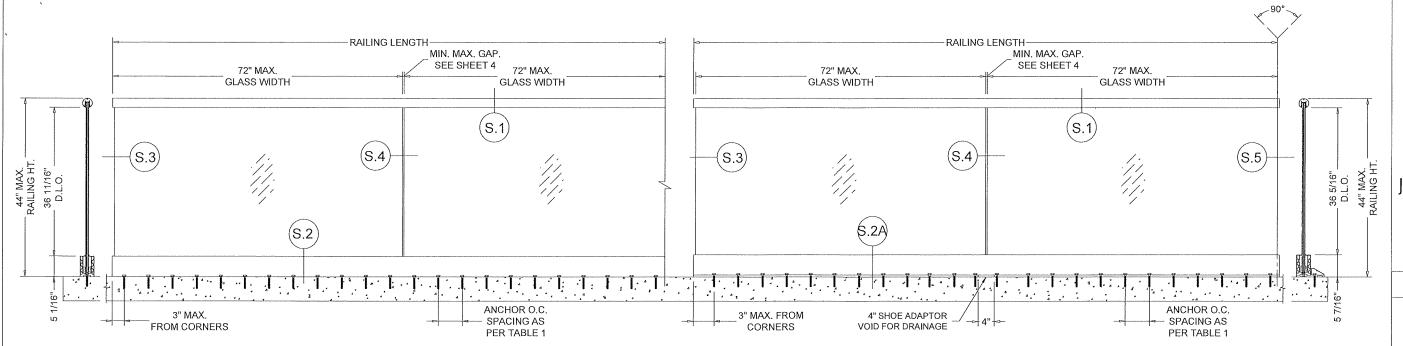
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	REVISION					
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date:		10/17/2024				
scale:		N/A				
drawn by:		M.S.				
check by:						
Drawing no.		JA-1836-24				

Eng: JAVAD AHMAD, PE CIVIL FLA. PE # 70592 - C.A.N. 34254





INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1

ELEVATION - TOP MOUNT

DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

ELEVATION - TOP F-MOUNT

STEP 2

USE ANCHOR PERFORMANCE CHART (TABLE 1) TO VERIFY ANCHOR CAPACITY FOR THE REQUIRED DESIGN LOAD AND SUBSTRATE

STEP 3

USE GLASS PERFORMANCE CHART (TABLE 2) TO CHECK GLASS ALLOWABLE LOADS.

THE LOWER VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

TABLE 1 - ANCHOR ALLOWABLE LOAD CAPACITY - PSF					
TYPE	ANCHOR DESCRIPTION	SUBSTRATE	BASE SHOE ANCHORS W/O CLIP (SEE DETAILS S2)	BASE SHOE ANCHORS W/ CLIP (SEE DETAILS S2A)	
			@ 6" O.C.	@ 6" O.C.	
А	1/2" DIA. A410 STAINLESS STEEL WEDGE BOLTS	WEIGHT CONC		+/- 100.0 PSF	
В				+/- 150.0 PSF	
6	1/2" DIA. GR. 5 STAINLESS	3/8" MIN. THICKNESS 6063-T6 ALUM.	+/- 115.0 PSF	+/- 150.0 PSF	
С	STEEL ANCHOR	1/8" MIN. THICKNESS A36 STEEL	+/- 125.0 PSF	+/- 150.0 PSF	

TABLE 2 - GLAZING DETAILS / PRESSURE (L.M.I)						
GLASS TYPE	LAYER A	INTERLAYER	LAYER B	ALOWABLE	PRESSURE	
A	3/8" TEMPERED GLASS	0.090" SENTRYGLAS INTERLAYER BY	3/8" TEMPERED GLASS	BASE SHOE W/O CLIP (SEE DETAILS S2)	BASE SHOE W/ CLIP (SEE DETAILS S2A)	
	KURARAY AME	KURARAY AMERICA INC.		+/- 125.0 PSF	+/- 150.0 PSF	



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SERIES IR-2000 ALUMINUM BASE SHOE GLASS RAILING SYSTEM (L.M.I.)

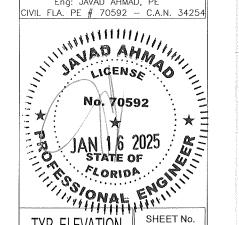
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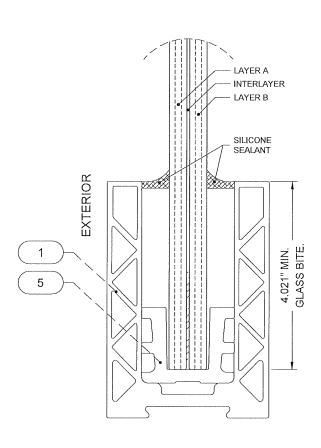
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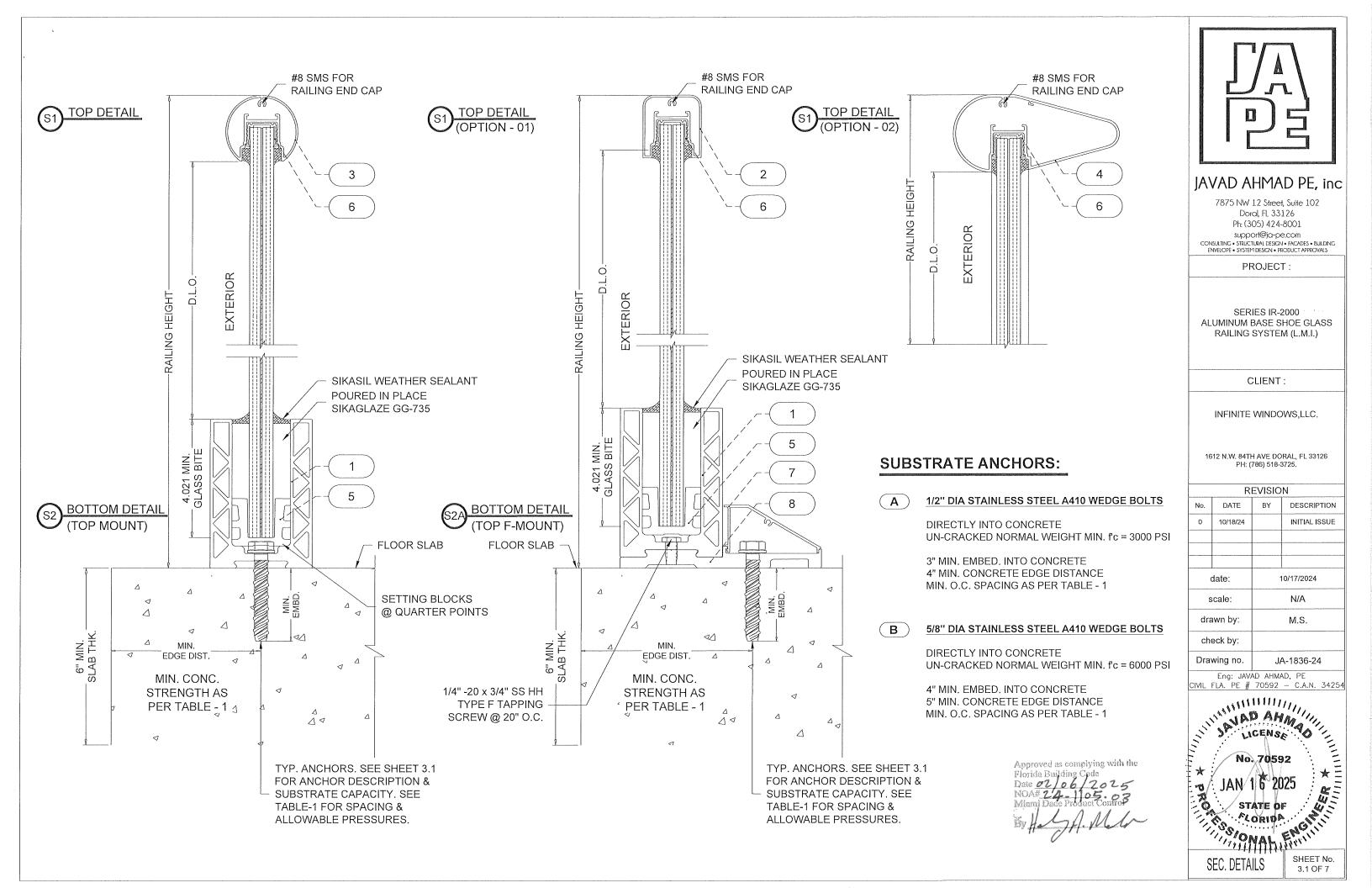
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	Eng: JAV	AD AHM	AD, PE

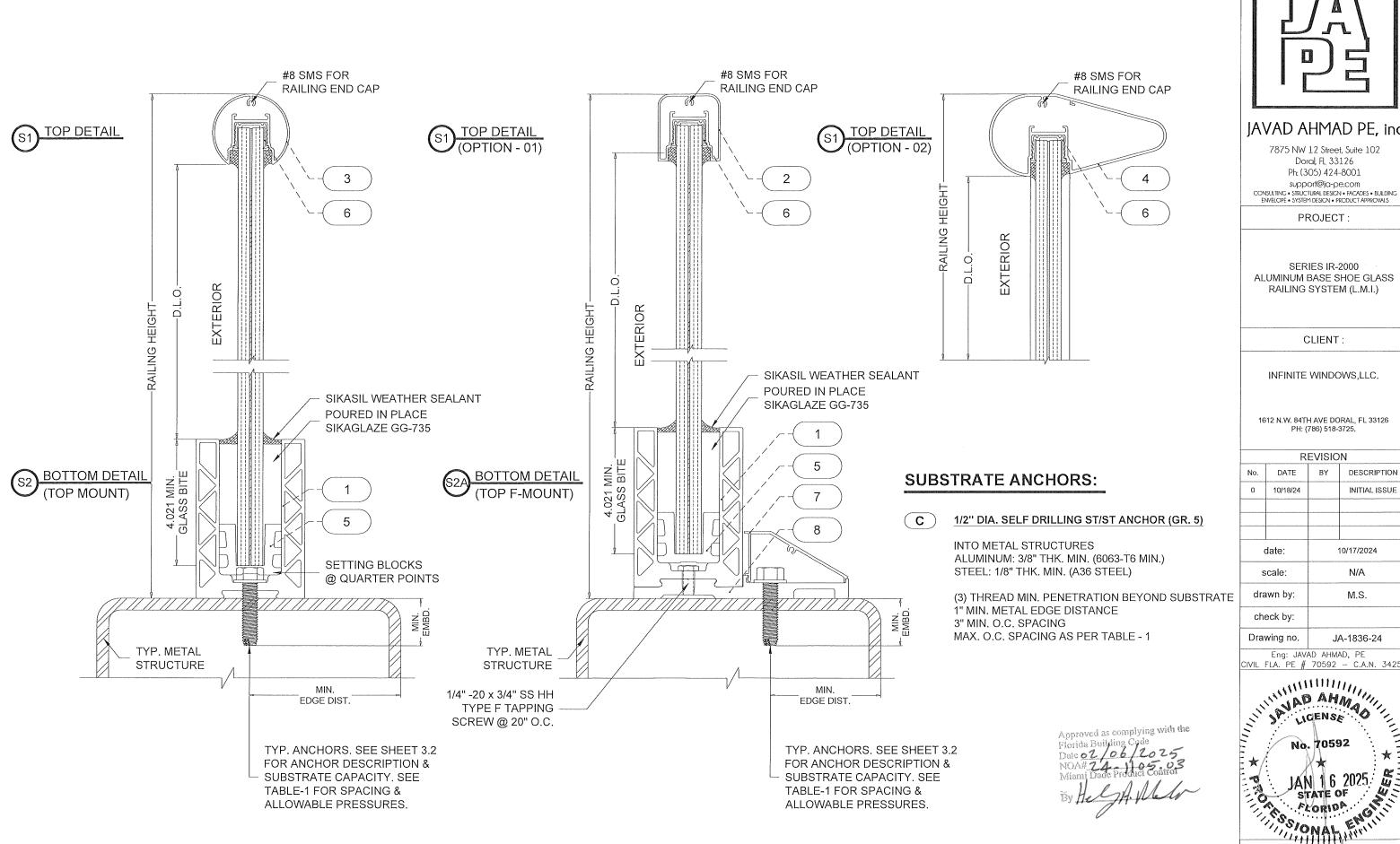
CIVIL FLA. PE # 70592 - C.A.N. 34254

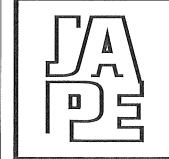




GLASS TYPE 'A' 13/16" OVERALL LAMINATED GLASS







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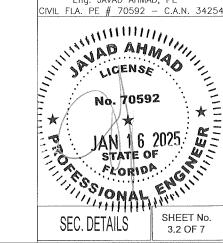
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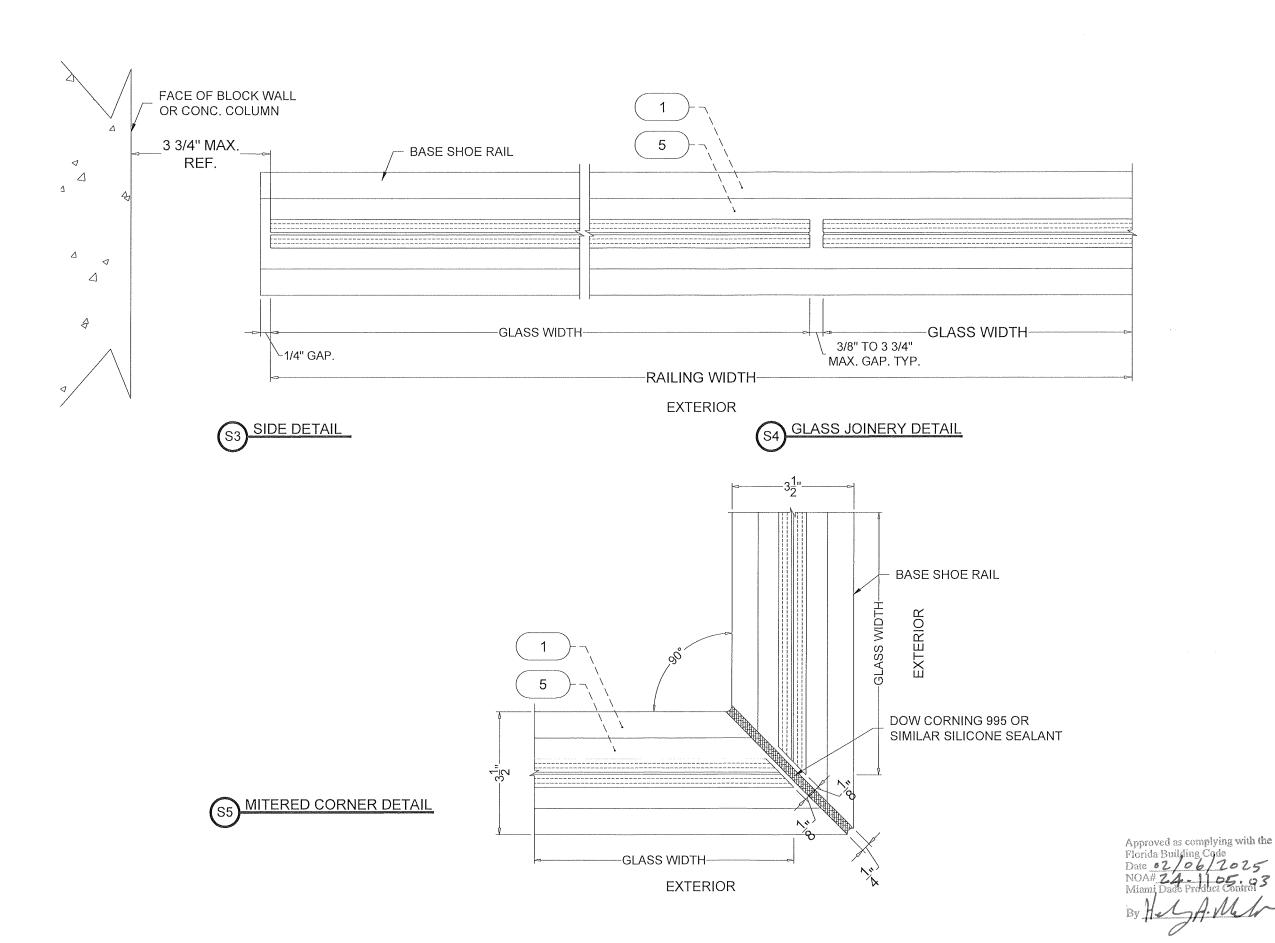
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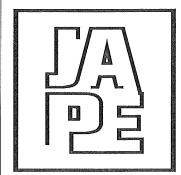
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	Fna: JAV		AD. PF		

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3.2 OF 7





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envelope • system design • product approvals

PROJECT :

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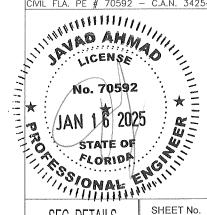
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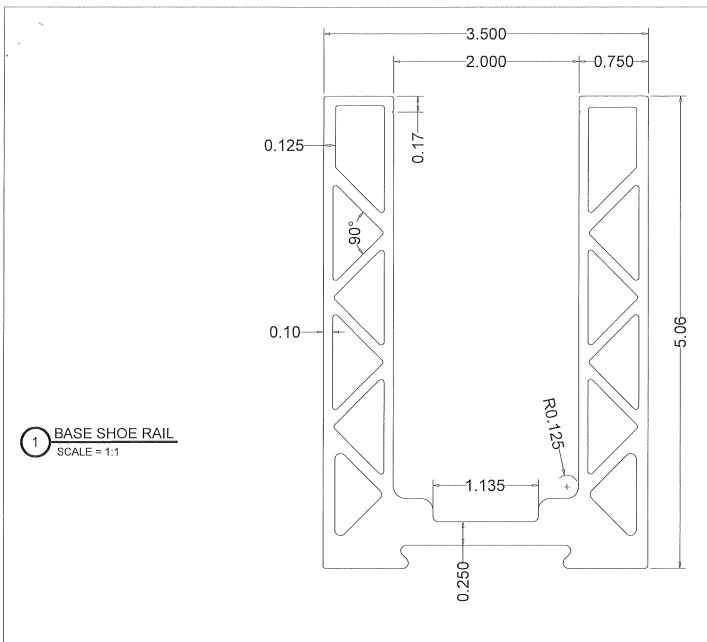
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Eng: JAVAD AHMAD, PE CIVIL FLA. PE # 70592 — C.A.N. 34254



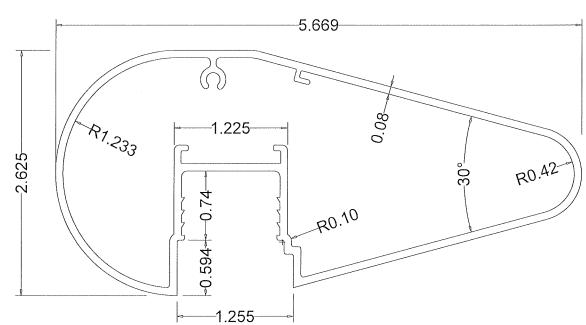
SEC. DETAILS

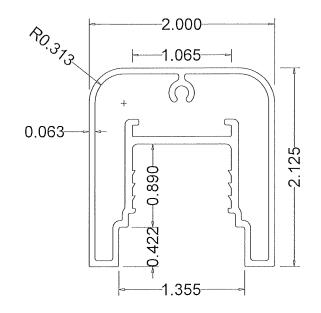
SHEET No. 4 OF 7



TOP RAIL (OPT-2)

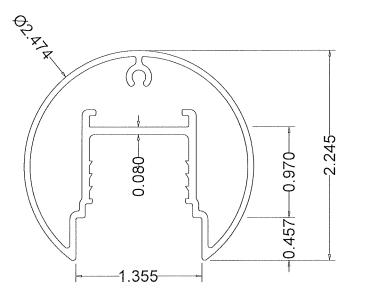
3 SCALE = 1:1





2 TOP RAIL
SCALE = 1:1.5

Approved as complying with the Florida Building Code
Date 02/06/2025
NOA# 24-11-05.03
Miami Dade Product Control
By H. J. M. W.



TOP RAIL (OPT-3)
SCALE = 1:1



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PROJECT:

SERIES IR-2000 ALUMINUM BASE SHOE GLASS RAILING SYSTEM (L.M.I.)

CLIENT:

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drawn by:			M.S.	
check by:				
Drawing no.		J,	A-1 836-24	
Eng: JAVAD AHMAD, PE CIVIL FLA. PE # 70592 — C.A.N. 34254				

No. 70592

No. 70592

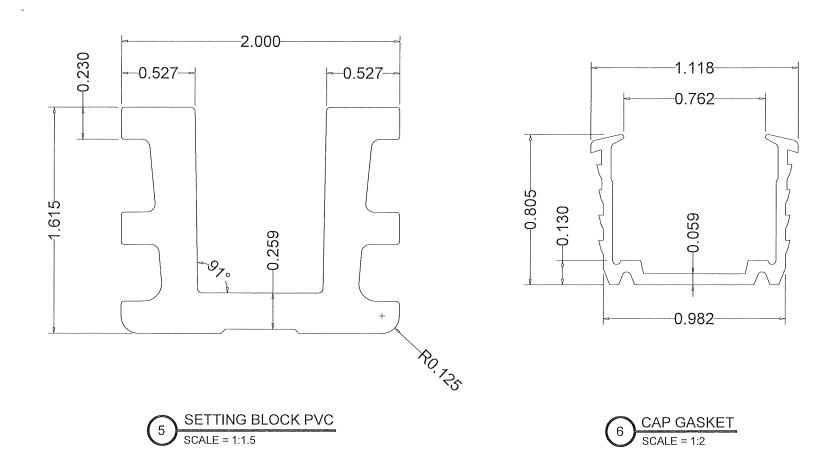
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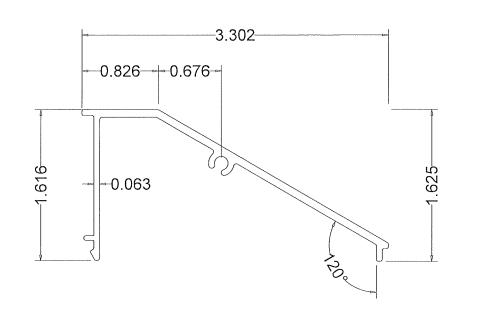
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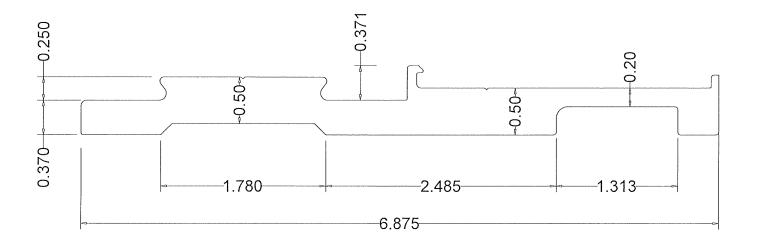
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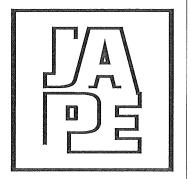


ALUMN. COVER
SCALE = 1:1



SHOE ANCHOR CLIP

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Date 025 06 2025
NOA# 24 - 11 55.03
Miami Dade Product Control
By 1 4 4 M



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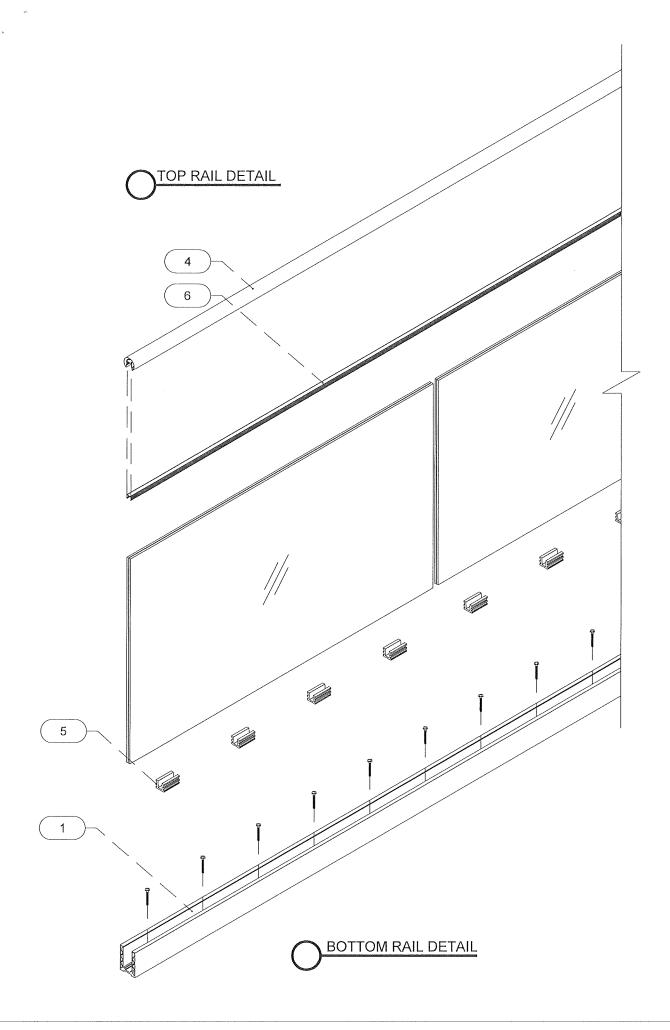
STATE OF

CORIDA

SHEET NO.

PROFILES

SHEET No. 6 OF 7



BILL OF MATERIALS				
ITEM#	DESCRIPTION	MATERIAL	MANUFACTURER	
1	2001 RAILING SHOE	6063-T6	INF. WINDOWS	
2	2008 CAP	6063-T5	INF. WINDOWS	
3	G20-01 SETTING BLOCK (2"x1.615"x4")	PVC-70	INF, WINDOWS	
4	G20-02 SETTING BLOCK (2"x1.615"x4")	SANTOPRENE -70	INF. WINDOWS	
5	SIKAGLAZE GG 735 PART A	SELF LEVELING 2-PART PU -GROUT	-	
6	SIKAGLAZE GG 735 PART B	SILICONE	-	
7	SIKASIL WS 295	SILICONE	-	
8	SILICONE CLEAR	STAINLESS STEEL	**	
9	SS WEDGE BOLT 1/2" OR 5/8" DIA.	A410 STAINLESS STEEL	-	
10	2002 SHOE ANCHOR CLIP	6063-T6	INF. WINDOWS	
11	ALUMINUM COVER	6063-T6	INF. WINDOWS	

Approved as complying with the Florida Building Code



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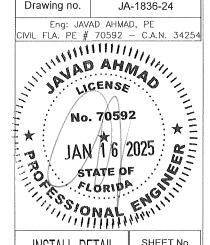
SERIES IR-2000 ALUMINUM BASE SHOE GLASS RAILING SYSTEM (L.M.I.)

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drawn by:		M.S.			
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Drawing no.		J/	A-1836-24		



INSTALL. DETAIL

SHEET No. 7 OF 7