

ENGINEERING SHOP DRAWING FOR INTERIOR GLASS-METAL RAILING STAIR & BALCONY

STRUCTURAL NOTES:

THESE PLANS CERTIFY THE STRUCTURAL ADEQUACY OF THE PROPOSED SYSTEM IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE BUILDING CODE ONLY.

SCOPE OF WORK
PROVIDE STRUCTURAL DESIGN FOR INTERIOR GLASS-METAL STAIR

GENERAL NOTES

1. SHOULD ANY SPECIFIC CONDITION DIFFER FROM THAT SPECIFIED HEREIN, OR STANDARD FIELD CONDITIONS, ADDITIONAL SPECIFIC ENGINEERING MAY BE REQUIRED AS DETERMINED BY THE BUILDING INSPECTOR AND PERMITTING CONTRACTOR.
2. USE MANUFACTURERS CERTIFIED DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT SHOWN IN THESE PLANS.
3. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT SHALL REMAIN IN CONFORMANCE WITH THE LIMITATIONS OF THIS PLAN. THE CONTRACTOR SHOULD VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION, AND VERIFY THAT PROPOSED DIMENSIONS AND FIELD CONDITIONS AGREE WITH THIS PROPOSED PLAN. THESE DRAWINGS ARE NOT INTENDED TO BE USED AS FABRICATION OR SHOP DRAWINGS.
4. ALL STRUCTURAL MEMBERS AS SHOWN HAVE BEEN DESIGNED TO CARRY IN PLACE DESIGN LOADS ONLY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR THE SUPPORT OF ANY ADDITIONAL LOADS AND FORCES IMPOSED DURING MANUFACTURING, TRUCKING, ERECTING, AND HANDLING.
5. CONSTRUCTION METHODS PROCEDURES, AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY AND THE CONTRACTOR IS TO TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
6. ALL THE CONTRACTOR'S PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER, BY LETTER, PRIOR TO ANY PERMANENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.
7. ALUMINUM MATERIAL: EXTRUSIONS ARE 6063-T6 UNDER ASTM B221, STRUCTURAL IS 6063-T6 UNDER ASTM B211 WITH FTY= 38KSI, UNLESS OTHERWISE STATED. ALUMINUM WELDS WILL USE 5356 ALLOY WITH MINIMUM SHEAR STRENGTH OF 17 KSI. ALL WELDING TO CONFORM TO AWS STANDARDS. ALL BOLT AND SCREW IN CONTACT WITH ALUMINUM ARE IN STAINLESS STEEL A304/ A316 GRADE.
8. ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE FBC 2023 SECTION 2003.8.1.3 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A, TABLE J.2.1. USE WELD FILLER 5356 OR BETTER ELECTRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
9. ALL CONCRETE AND EPOXY TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. CONCRETE FOOTERS SHALL CONTAIN MINIMUM 0.1% FIBERMESH CONTENT PER CUBIC YARD. ALL EPOXY AND GROUT SHALL MEET OR EXCEED COMPRESSIVE STRENGTH OF THE CONCRETE AND SHALL BE IRON-FREE, NON-SHRINK AND NON-REACTIVE.
10. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
11. ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COSTS & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN. EXCEPT AS EXPRESSLY PROVIDED IN HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
12. THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT REFERENCED WHICH ARE PART OF THE INTERNAL FABRICATION OF THE SPECIFIED SYSTEMS SHALL BE PER MANUFACTURER PUBLISHED SPECIFICATIONS.
13. ALL AMERICAN ENGINEERING & CONSULTING SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. ALL AMERICAN ENGINEERING & CONSULTING SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION UPON DISCOVERY OF ANY NON-MATCHING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
14. OMISSIONS/CONFLICTS: IN CASE OF OMISSIONS AND CONFLICTS BETWEEN PLANS, SPECIFICATIONS AND SITE CONDITIONS THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK.
15. THE CONTRACTOR IS RESPONSIBLE TO INSULATE DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
16. ALL AMERICAN ENGINEERING & CONSULTING HAS NOT VISITED THE JOB-SITE. DIMENSIONS SHOWN HEREIN ARE IN CONTRACTOR SUPPLIED DATA.
17. PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO THIS ENGINEER FOR REVIEW AND APPROVAL.
18. THE REVIEW OF CHANGES AND SUBSTITUTIONS, RE-ANALYSIS AND/OR REDRAFTING TO INCORPORATE CHANGES OR SUBSTITUTIONS INTO CONTRACT DOCUMENTS ARE ADDITIONAL SERVICES.
19. CONSTRUCTION COST REVISIONS ARE BETWEEN THE CONTRACTOR AND OWNER AND ARE NOT REVIEWED BY ALL AMERICAN ENGINEERING & CONSULTING.
20. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY ENGINEER IS PROHIBITED.

INCLUSIONS:

SERIES GARDA SP200 AND SP300 POSTLESS GLASS RAILING SYSTEM
BY ALUVETRO SRL. NOA# 23-0720.10
BRUSHED STAINLESS FINISH FOR 13/16" CLEAR LAMINATED GLASS,
GLASS : 13/16" CLEAR LAMINATED TEMPERED GLASS.
3/8" CLEAR TEMPERED GLASS
0.060 SENTRY GLASS PLUS INTERLAYER
3/8" CLEAR TEMPERED GLASS

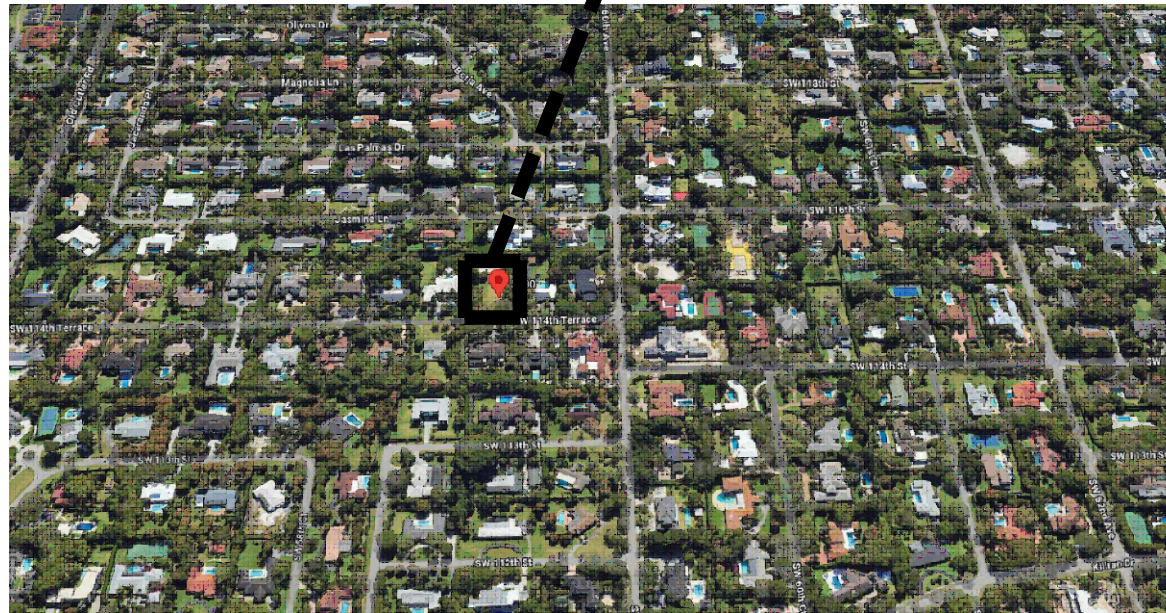
LOAD NOTES:

1. FLORIDA BUILDING CODE, 2023 EDITION LOADS:
RAILINGS & HANDRAILS:
P = CONCENTRATED LOAD OF 200 lbs (0.89 kN) IN ANY DIRECTION AT ANY PLACE OF TOP MEMBER.
W = DISTRIBUTED LOAD 50 plf (0.73 kN/m) AT TOP MEMBER. THIS LOAD MUST BE TRANSFERRED THROUGH THE SUPPORT TO THE STRUCTURE.
WIND VELOCITY AS PER FBC-2023 CATEGORY 2 V= 175MPH
2. THE ENGINEER HAS EXCLUSIVELY DESIGNED THE STRUCTURE AND/OR BUILDING COMPONENTS IN COMPLIANCE WITH FBC-2023 AND DESIGN STANDARDS FOR STRUCTURAL REQUIREMENTS ONLY. THE EXISTING STRUCTURE MUST SUPPORT THE LOADS IMPOSED BY THE SYSTEM OR SYSTEMS. ENGINEER ON RECORD OF THE BUILDING SHALL VERIFY THE STRUCTURE FOR SUCH LOADINGS.

METALS NOTES:

1. FASTENER, UNLESS DETAILED OTHERWISE, ALL FASTENERS SHALL BE 316 STAINLESS STEEL, ALUMINUM BOLTS, WHERE SPECIFIED, SHALL BE 2024-T4 OR 6061-T6 ALLOY.
 2. ALL WELDING SHALL CONFORM WITH AWS D1.2, LATEST STRUCTURAL WELDING CODE-ALUMINUM. WELD FILLER ALLOY 5356. CLEANING: SSPC-SP2 "HAND TOOL CLEANING".
 3. WHERE THE CONTACT OF DISSIMILAR MATERIAL MAY CAUSE ELECTROLYSIS OR WHERE ALUMINUM WILL COME IN CONTACT WITH CONCRETE, MORTAR OR PLASTER, THE CONTACT SURFACE OF ALUMINUM SHALL BE COATED 1 COAT OF ZINC CHROMATE PRIMER AND ONE HEAVY COAT OF ALUMINUM PIGMENTED ASPHALT PAINT OR ALKALI-RESISTANT COATINGS, SUCH AS HEAVY-BODIED BITUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACQUER.
 4. THE ELEMENTS OF THE STAIR MAY BE WASHED AS NEEDED WITH WATER AND MILD SOAP. DO NOT USE ACIDIC SOLUTIONS, HARSH SOLUTIONS OR ABRASIVE CLEANING MATERIALS OR SOLUTIONS AS THEY COULD HARM THE FINISH.
 5. STRUCTURAL ALUMINUM SHALL BE DOMESTIC ALLOY 6061-T6, DESIGNED IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S SPECIFICATIONS FOR ALUMINUM STRUCTURES.
- | <u>ALLOY</u> | <u>Fb</u> | <u>Fb (WELDED)</u> | <u>Fv</u> | <u>Fv (WELDED)</u> |
|--------------------------|-----------|--------------------|-----------|--------------------|
| 6061-T6 (TUBES & SHAPES) | 19.0 KSI | 9.0 KSI | 12.0 KSI | 5.0 KSI |
6. ALUMINUM FRAMES, EXTRUSIONS OR VENT EXTRUSIONS MUST MEET THE MINIMUM REQUIREMENTS U.N.O ON THE DRAWINGS.
- | <u>TYPE</u> | <u>Fb</u> | <u>Fb (WELDED)</u> | <u>Fv</u> | <u>Fv (WELDED)</u> |
|-------------------------|-----------|--------------------|-----------|--------------------|
| 6063-T5(TUBES & SHAPES) | 9.5 KSI | 4.8 KSI | 5.5 KSI | 2.8 KSI |
| 6063-T5(ROUND & OVAL) | 11.5 KSI | 5.5 KSI | 5.5 KSI | 2.8 KSI |

LOCATION MAP

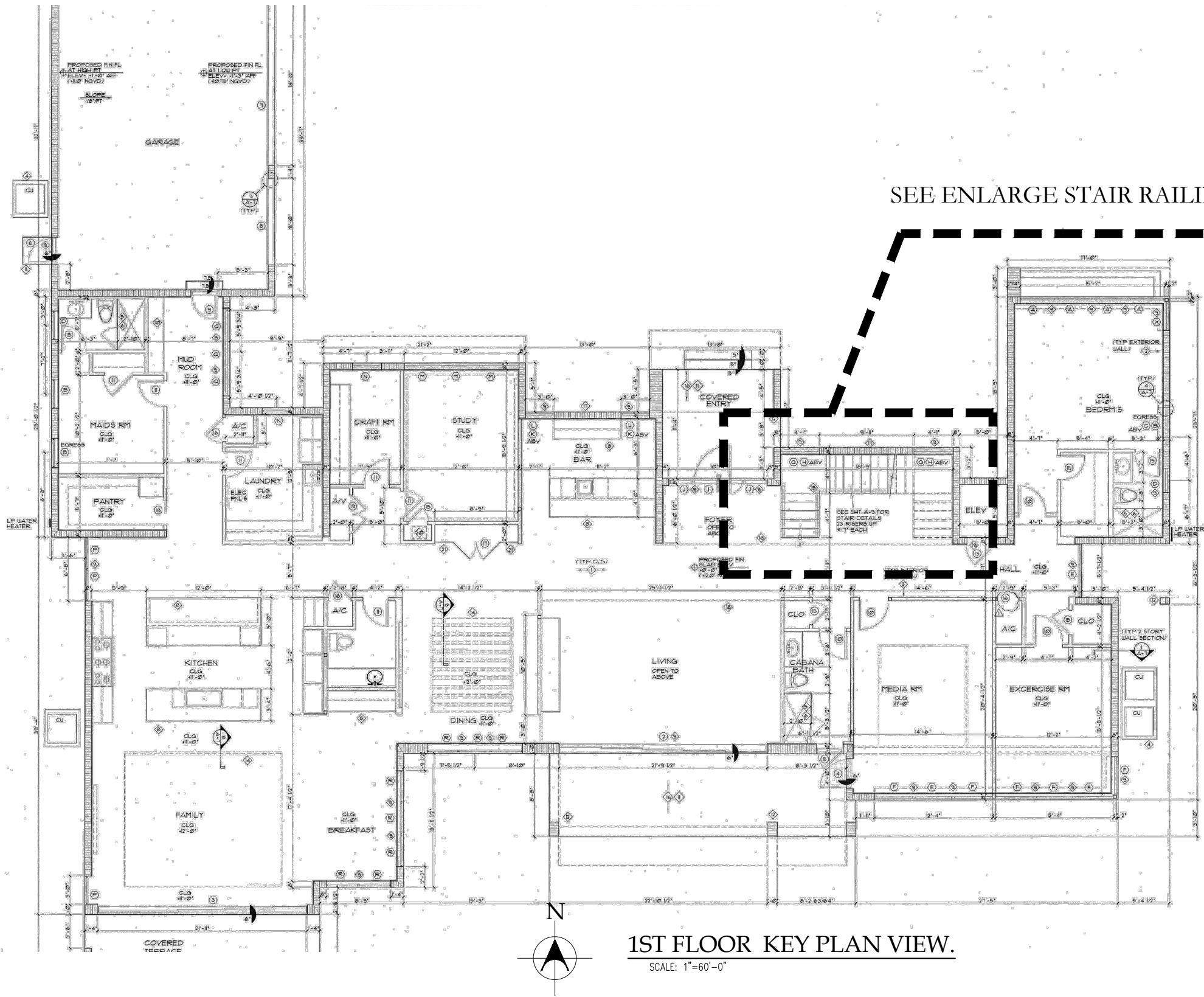


5900 SW 114th TERR PINECREST,FL 33156

		PROJECT: RAILING STAIR & BALCONY	
LOCATION: 5900 SW 114th TERR PINECREST, FL 33156		ARCHITECT:	
CONTRACTOR:			

ALL AMERICAN ENGINEERING & CONSULTING, LLC. 11248 SW 132 CT WEST MIAMI, FLORIDA 33186 (786) 448-0384	
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SHEET TITLE: SD-1 GENERAL NOTES	
SCALE:	
DRAWN BY: A.S.G.	DATE: 01-09-2026
CHK'D. BY:	DATE:
PROJECT NO.	
SHEET NO.	1 OF 5



1ST FLOOR KEY PLAN VIEW.
SCALE: 1"=60'-0"

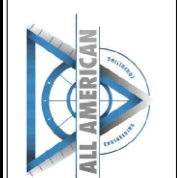
NOTE:ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION & INSTALLATION

RAILING STAIR & BALCONY

5900 SW 114th TERR PINECREST, FL 33156

ARCHITECT:

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PROJECT:	RAILING STAIR & BALCONY
LOCATION:	5900 SW 114th TERR PINECREST, FL 33156
ARCHITECT:	
CONTRACTOR:	

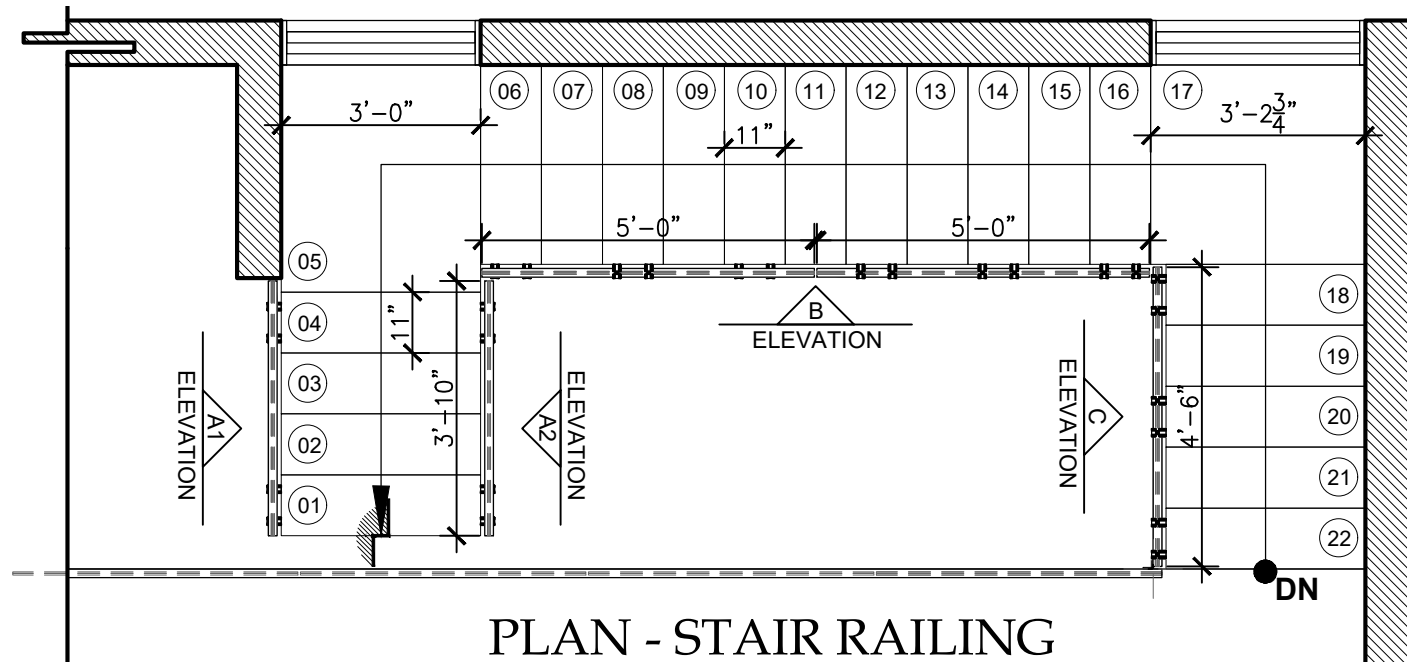


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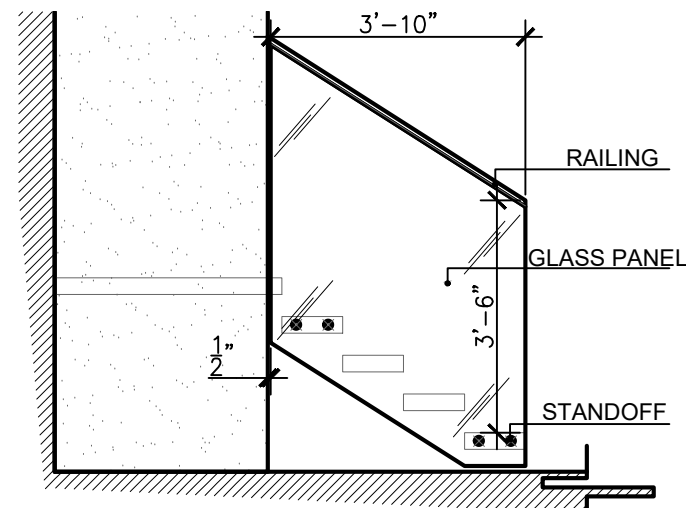
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SD-3
KEY PLAN VIEW

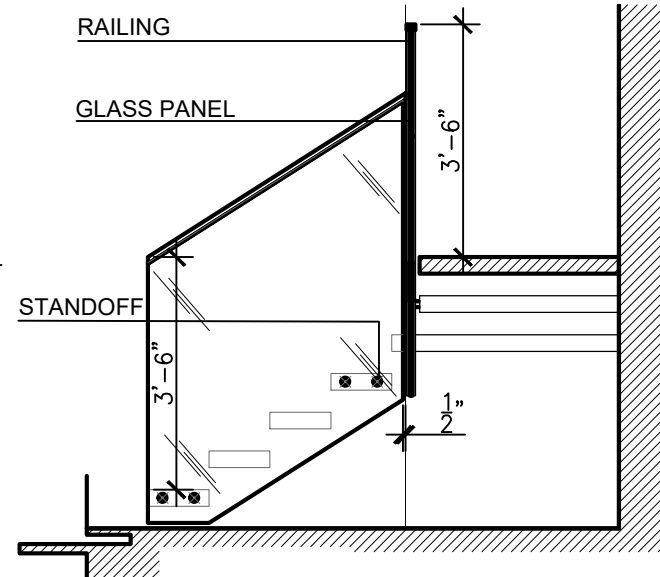
SCALE:	
DRAWN BY: A.S.G	DATE: 01-09-2026
CHK'D. BY:	DATE:
PROJECT NO.	
SHEET NO.	3 OF 5



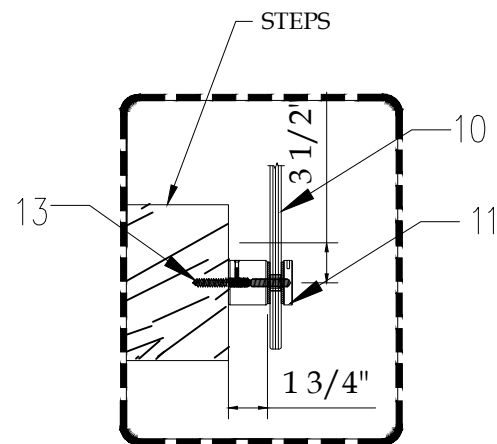
PLAN - STAIR RAILING



ELEVATION A1



ELEVATION A2



MOUNT DETAIL

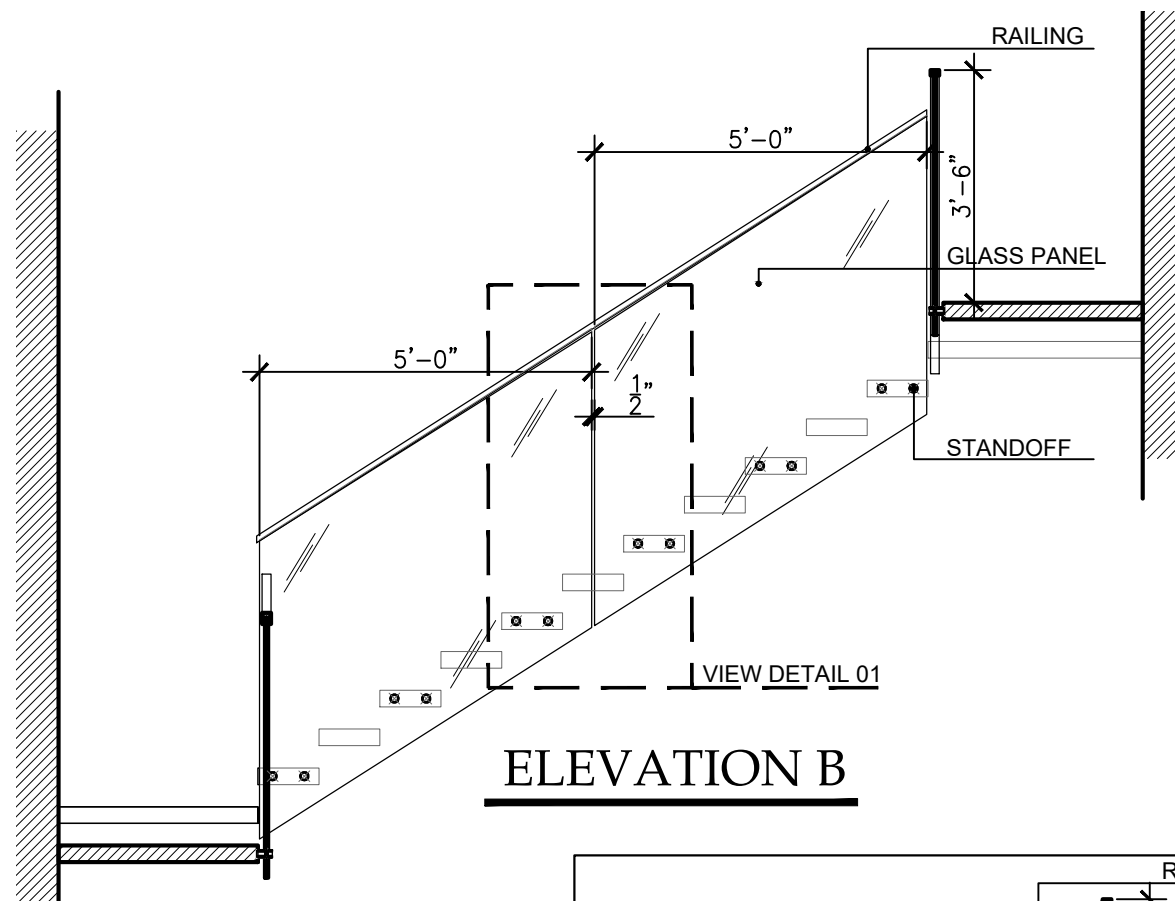
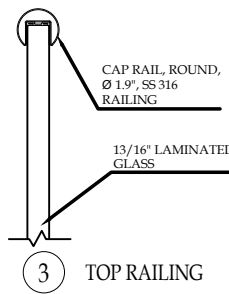
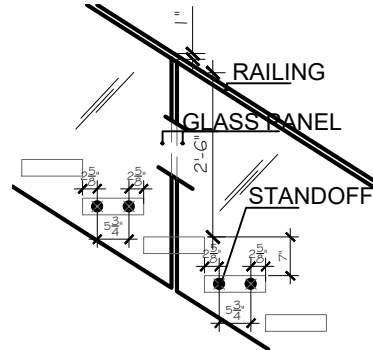
LEGEND:

10. $\frac{1}{2}$ " TO $\frac{3}{4}$ " MONOLITHIC OR $\frac{9}{16}$ " & $\frac{27}{32}$ " LAMINATED GLASS
11. CRL RSOB2134 STANDOFF FITTING WITH 316 CAP 316 STAINLESS STEEL
13. $\phi \frac{3}{8}$ " X 3" LAG HANGER BOLT FULL THREAD STAINLESS STEEL

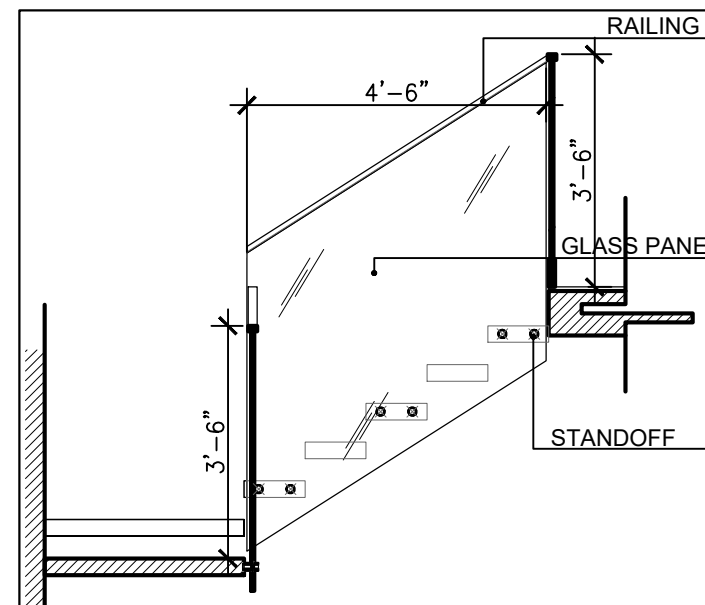
NOTES:

- FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK.

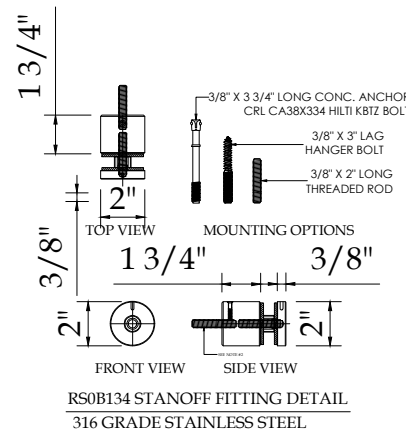
01 DETAIL 01



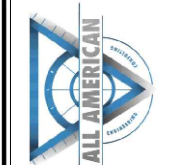
ELEVATION B



ELEVATION C



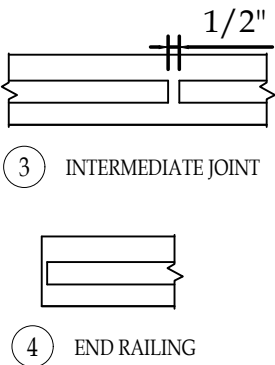
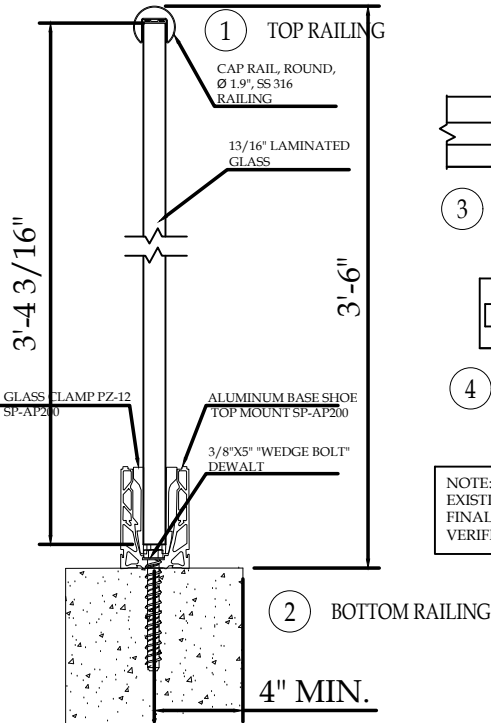
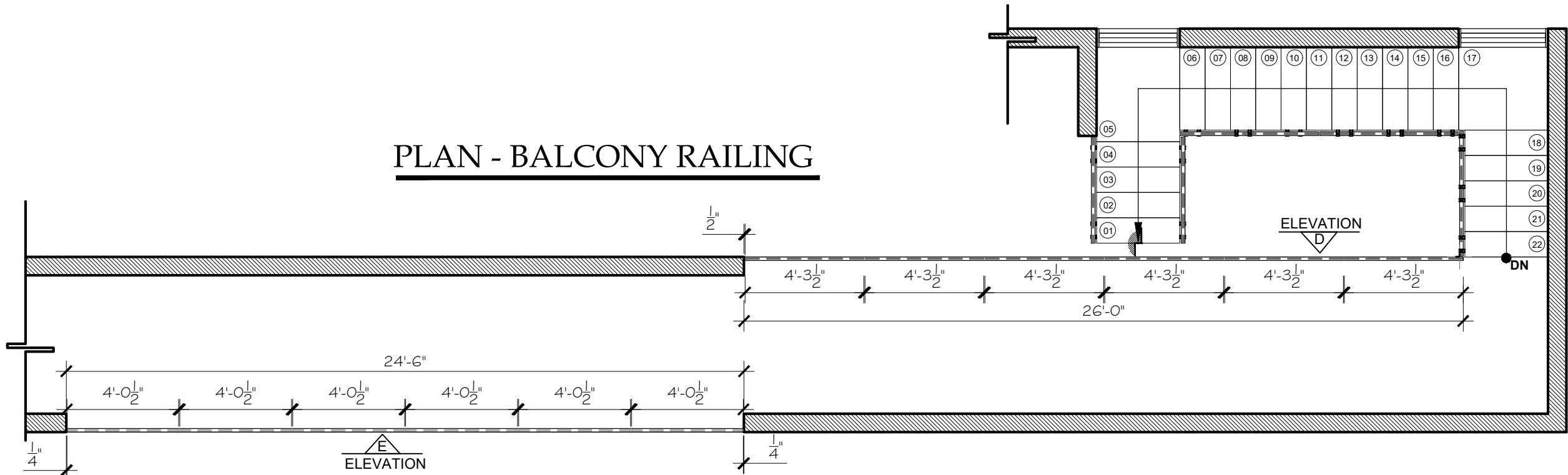
PROJECT: RAILING STAIR & BALCONY
LOCATION: 5900 SW 114th TERR PINECREST, FL 33156
ARCHITECT:
CONTRACTOR:



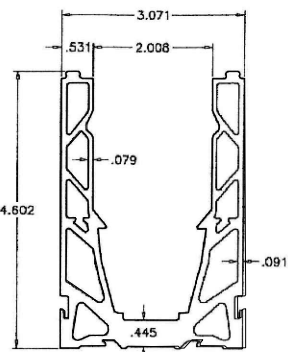
ALL AMERICAN
ENGINEERING &
CONSULTING, LLC.
11248 SW 132 CT WEST
MIAMI, FLORIDA 33186
(786) 448-0384

NO.	BY	DATE	REVISIONS
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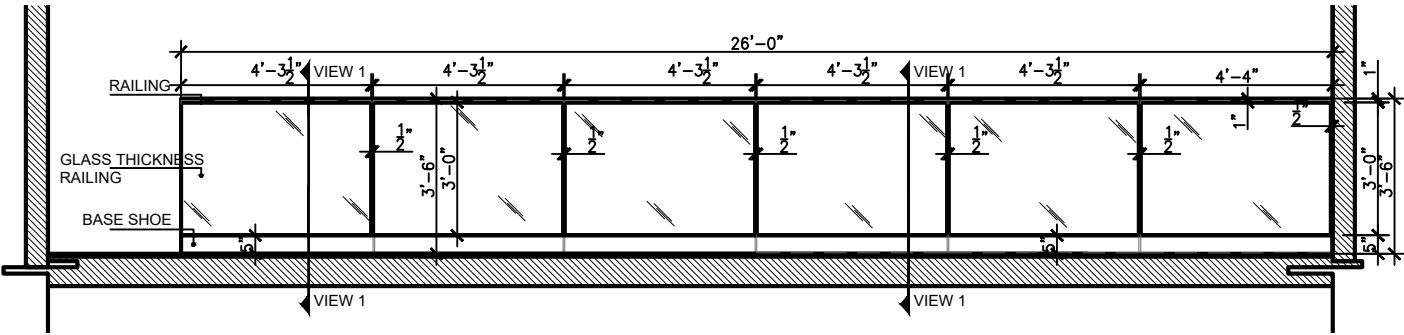
PLAN - BALCONY RAILING



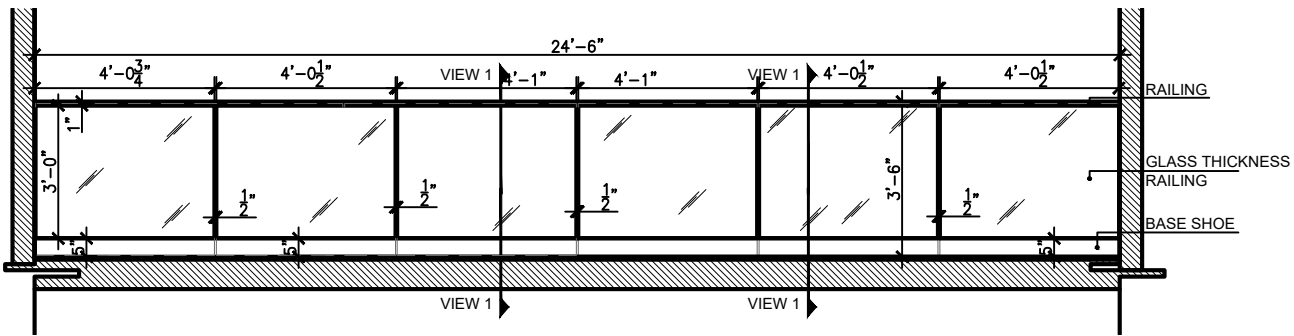
NOTE:
EXISTING CONDITIONS AND
FINAL DIMENSIONS TO BE FIELD
VERIFIED



VIEW 1-1



ELEVATION D



ELEVATION E

PROJECT: RAILING STAIR & BALCONY
LOCATION: 5900 SW 114th TERR PINECREST, FL 33156
ARCHITECT:
CONTRACTOR:



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NO.	BY	DATE	REVISIONS

SHEET TITLE:
SD-5
BALCONY RAILING
SCALE:
DRAWN BY:
A.S.G
DATE:
01-09-2026
CHK'D. BY:
DATE:
PROJECT NO.
SHEET NO. 5 OF 5