

STRUCTURAL NOTES

GENERAL CONDITIONS

THIS SET OF DRAWINGS IS NOT TO BE SCALED; USE DIMENSIONS AND INFORMATION SHOWN.

PRIOR TO PROCEEDING WITH ANY WORK AND FABRICATION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS FOR EXISTING STRUCTURES SHOWN OR NOT SHOWN ON THE DRAWINGS. ALL DIMENSIONAL DISCREPANCIES FOUND ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

VERIFY ALL EXISTING CONDITIONS AT THE JOB SITE, PROTECT AND MAINTAIN ALL EXISTING STRUCTURES, UTILITIES, FACILITIES AND THEIR CONTENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE BRACING OF ALL STRUCTURAL MEMBERS, WALLS AND NON STRUCTURAL ITEMS DURING CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL AT ALL TIMES MAINTAIN AT THE JOBSITE A CURRENT APPROVED SET OF DRAWINGS.

ENGINEER HAS NOT VISITED THE JOB SITE AND SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANYWAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS THAT HAVE BEEN PROVIDED BY THE CONTRACTOR / MANUFACTURER. WORK SHALL BE FIELD VERIFIED BY THE CONTRACTOR / MANUFACTURER AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

DESIGN CRITERIA

DESIGN AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

- FLORIDA BUILDING CODE (FBC) 2023 EDITION
 - STAIRS: 60 PSF LIVE LOAD, 20 PSF DEAD LOAD
 - RAILING / HANDRAILS: 50 PLF OR 200 LB APPLIED ON ANY DIRECTION
 - POSTS: 200 LB MIN LOAD ON TOP
- ASCE 7-22
 - ULTIMATE WIND SPEED: 175 MPH
 - RISK CATEGORY: II
 - EXPOSURE CATEGORY: C

ALUMINUM NOTES

1. FABRICATION AND ERECTION OF STRUCTURAL ALUMINUM SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM ASSOCIATION SPECIFICATIONS.
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL ALUMINUM SHALL CONFORM TO ASTM B 221 ALLOY 6061-T6.
3. ALUMINUM MEMBERS SHALL BE PREVENTED FROM BEARING DIRECTLY ON STEEL SURFACES BY PLACING A CONTINUOUS NEOPRENE SHEET BETWEEN THE TWO MATERIALS. ADDITIONALLY STEEL SURFACES SHOULD BE COATED WITH PAINT.
4. INSULATE DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
5. EFFECTIVELY COAT ALL ALUMINUM EMBEDDED INTO CONCRETE WITH AN ASPHALT-BASE COATING, BITUMINOUS PAINT OR OTHER INERT INSULATING COATING.

STRUCTURAL STEEL

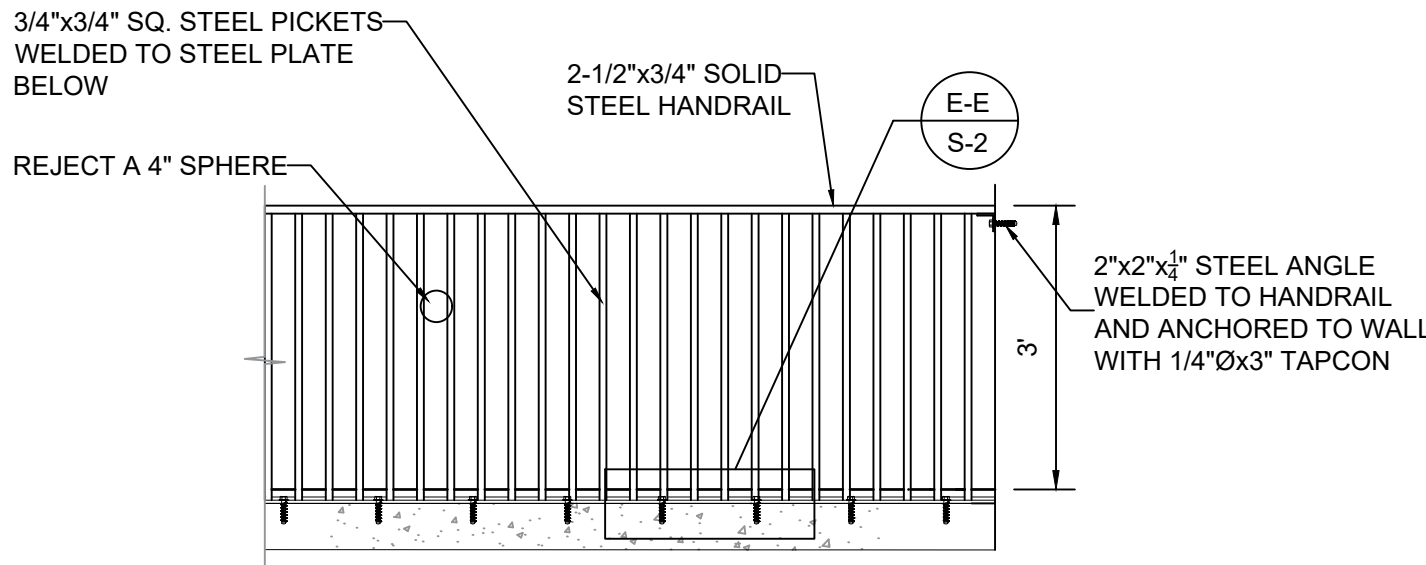
1. STRUCTURAL STEEL DESIGN SHALL CONFORM TO THE LATEST AISC CODE REQUIREMENTS
2. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A572 GRADE 50 FOR STEEL PLATES, ANGLE, SOLIDS, AND BARS INCLUDING HANDRAIL AND PICKETS.
3. STRUCTURAL TUBING SHALL CONFORM TO A.S.T.M. A500, GRADE B (Fy=46 KSI) FOR COLUMNS HSS.
4. BOLT CONNECTIONS SHALL CONFORM TO A.S.T.M. A325 CONNECTION TYPE N.
5. ANCHOR BOLTS SHALL CONFORM TO A.S.T.M. F1554 GR 36.
6. ALL BOLTS SHALL HAVE WASHERS WITHOUT EXCEPTIONS.
7. PRIMARY STRUCTURAL STEEL MEMBERS SHALL HAVE ONE SHOP COAT OF PAINT AND, IF EXPOSED TO THE ATMOSPHERE OR ELEMENTS IN THE COMPLETED BUILDING OR STRUCTURE SHALL RECEIVE A SECOND COAT OF PAINT OR BE FIELD PAINTED IN ADDITION TO THE INITIAL SHOP COAT WITH LEAD, GRAPHITE, ASPHALT PAINT, OR OTHER COATING COMPATIBLE WITH THE SHOP COAT.

CONNECTIONS

ALL CONNECTIONS SHALL BE FIELD WELDED W/ A 3/16" FILLET WELD, UNLESS OTHERWISE NOTED. WELDING SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE

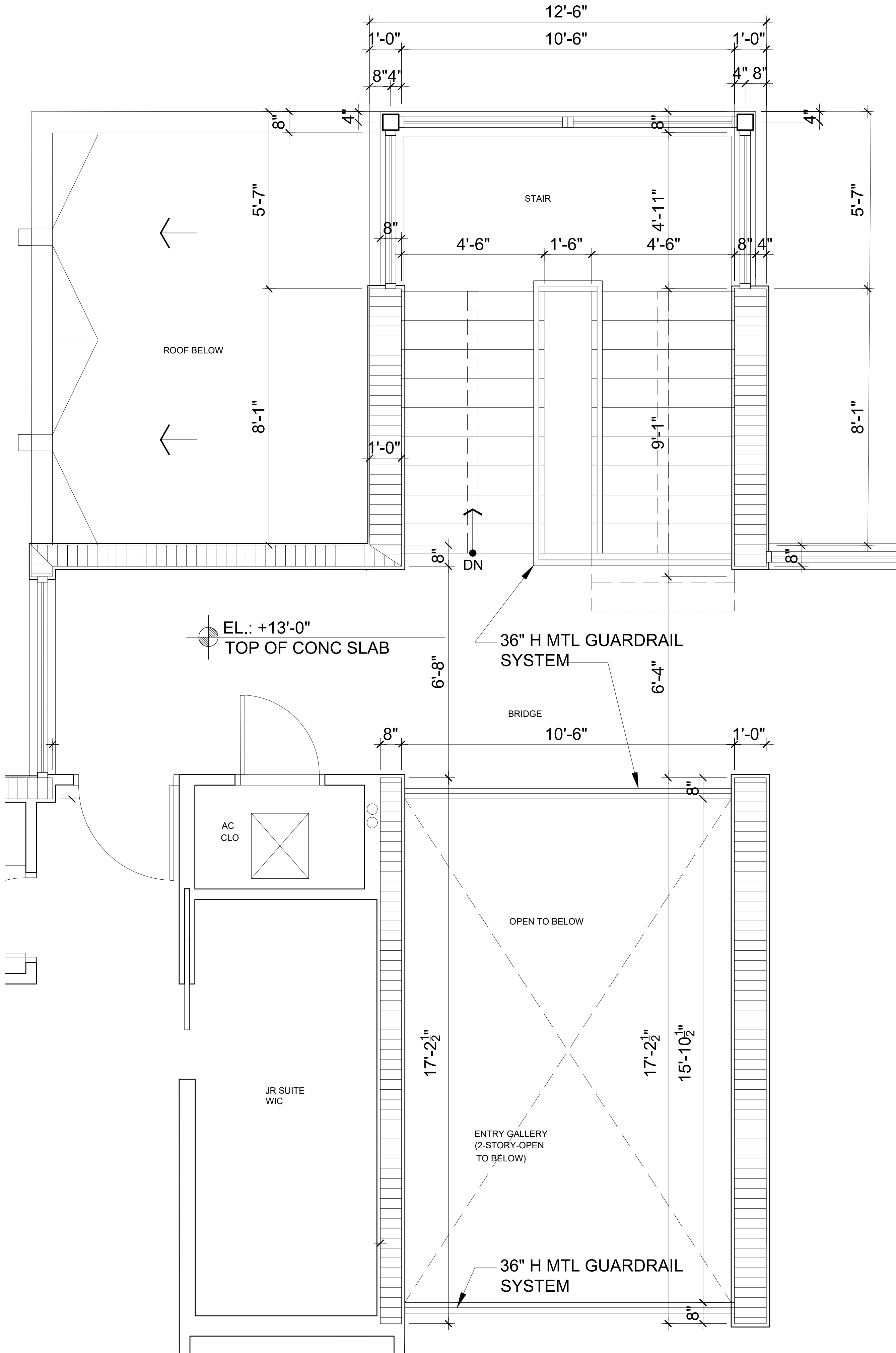
ALUMINUM MEMBERS SHALL BE PREVENTED FROM BEARING DIRECTLY ON STEEL SURFACES BY PLACING A CONTINUOUS NEOPRENE SHEET BETWEEN THE TWO MATERIALS. ADDITIONALLY STEEL SURFACES SHOULD BE COATED WITH PAINT.

INSULATE DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.



TYP. INTERIOR RAILING ELEVATION

SCALE: 1/2" = 1'-0"



INTERIOR RAILING PLAN VIEW

SCALE: 1/2" = 1'-0"

rev.	description	by	date

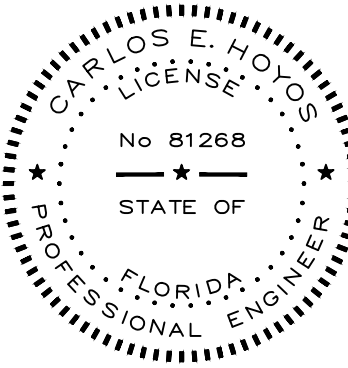
HOYOS

ENGINEERING

CIVIL & STRUCTURAL ENGINEERING

12068 NW 83rd Place
Parkland FL 33076

Phone (954) 816 - 2941
Business C.A. # 32119



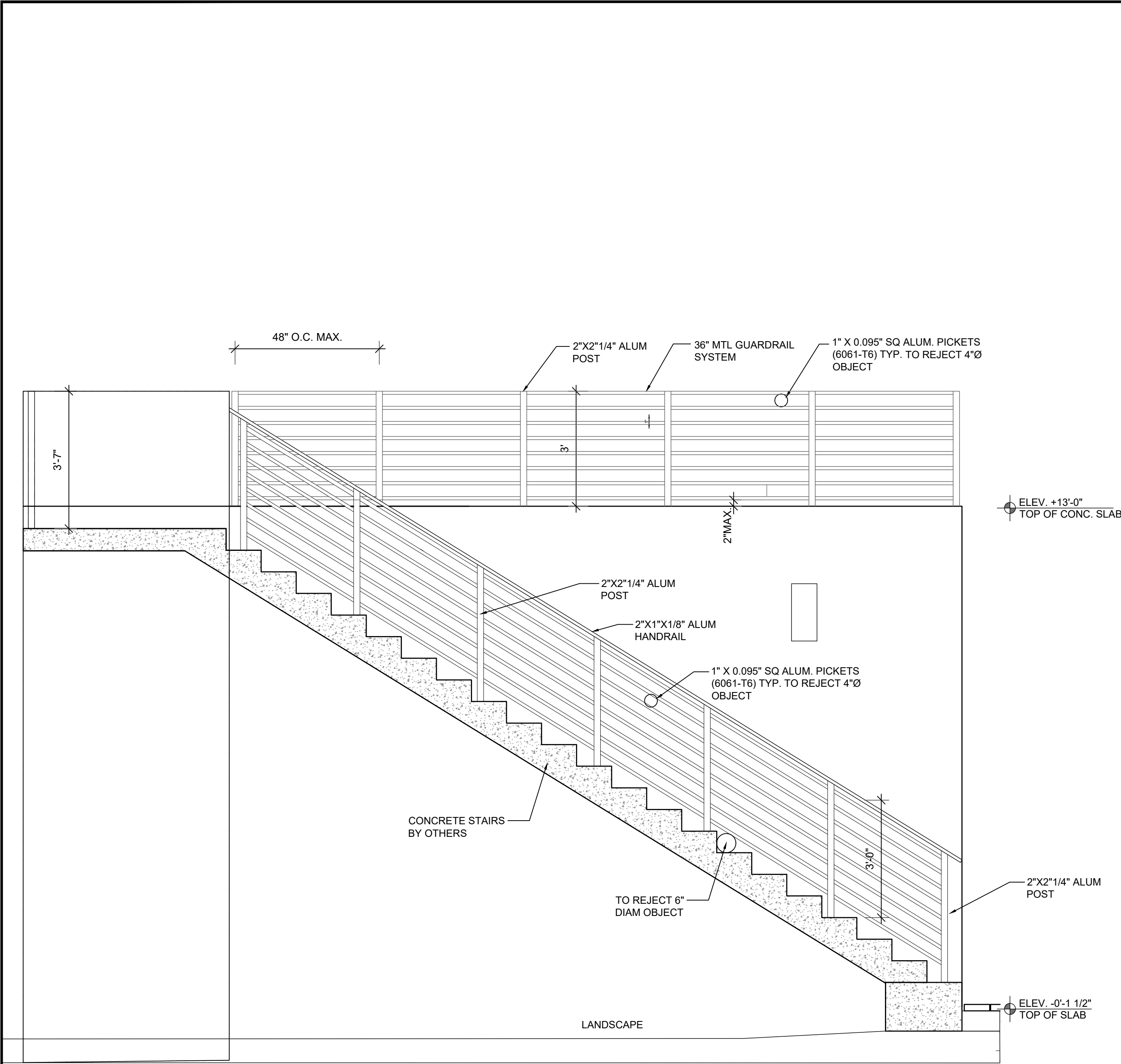
This item has been electronically signed and sealed by Carlos E. Hoyos on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

INTERIOR STEEL STAIRS & RAILINGS

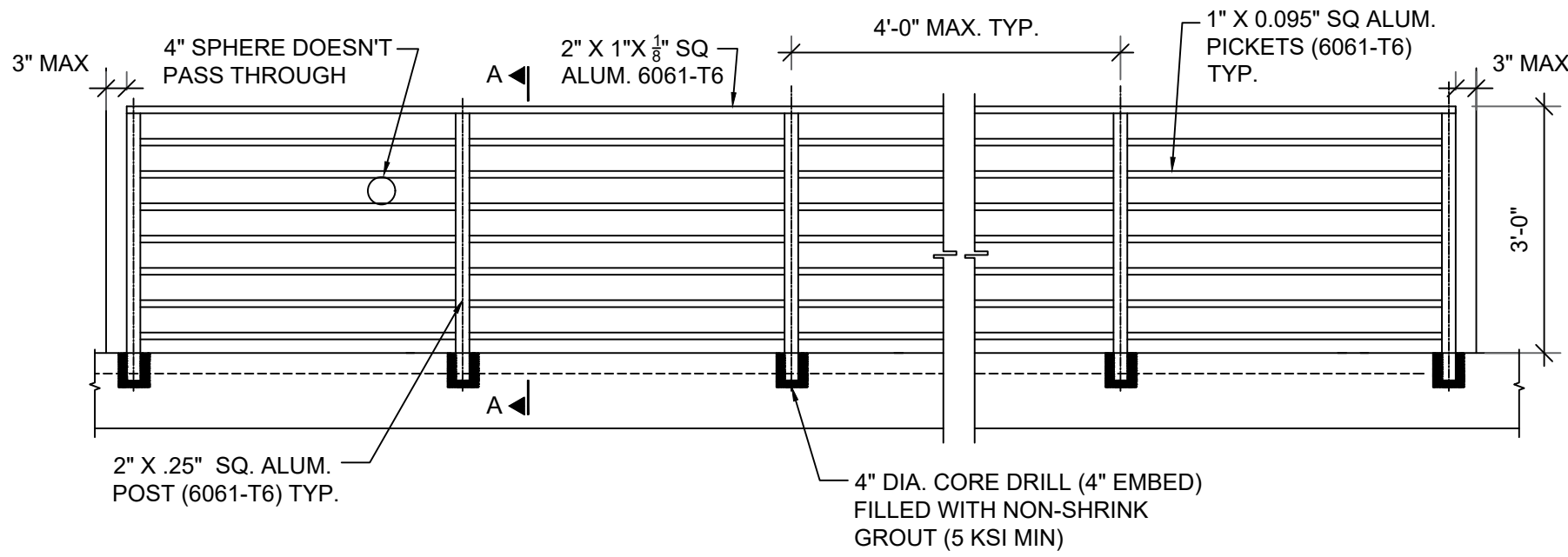
6100 W Suburban Dr. Pinecrest, FL 33156

drawn by:	H.M.O.
checked by:	C.E.H.
date:	01/12/2026
job no:	
sheet:	

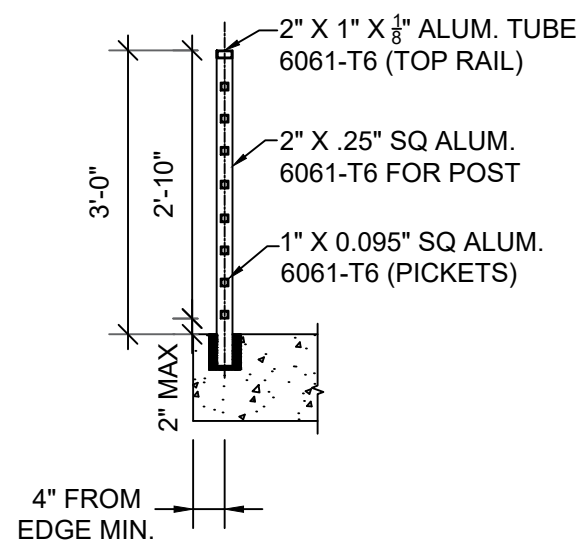
Si



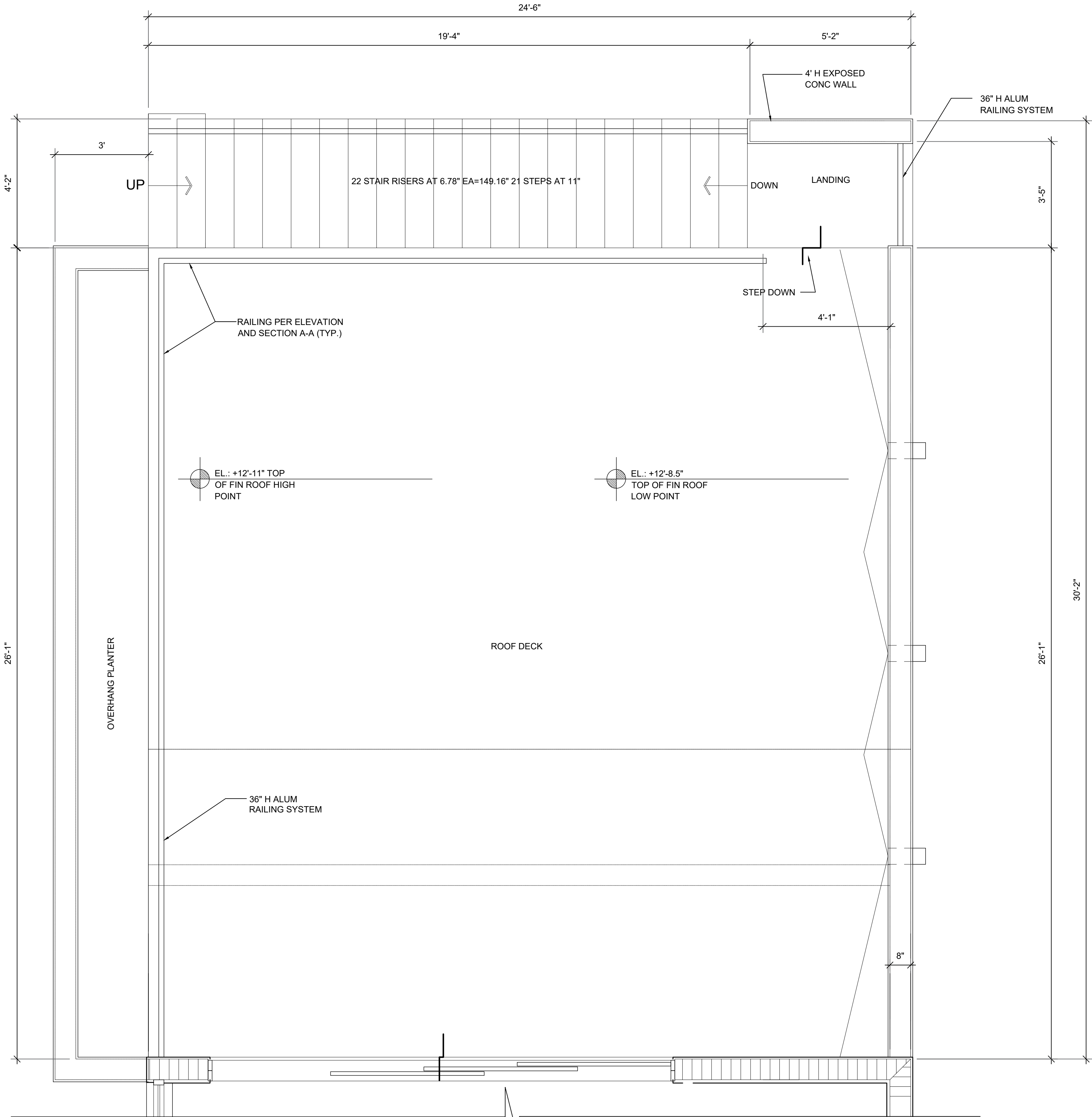
EXTERIOR RAILING SECTION
SCALE: 1/2" = 1'-0"



EXTERIOR BALCONY RAILING ELEVATION
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



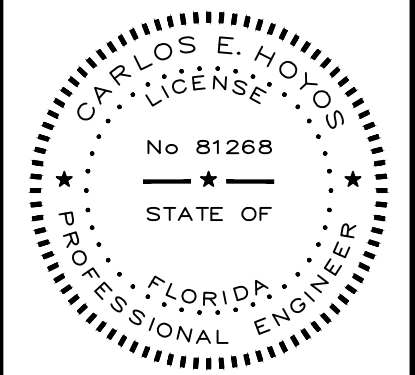
EXTERIOR RAILING PLAN VIEW
SCALE: 1/2" = 1'-0"

rev.	description	by	date

HOYOS

ENGINEERING

CIVIL & STRUCTURAL ENGINEERING
12068 NW 83rd Place
Parkland FL 33076
Phone (954) 816 - 2941
Business C.A. # 32119



This item has been electronically signed and sealed by Carlos E. Hoyos on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

INTERIOR STEEL STAIRS & RAILINGS

6100 W Suburban Dr.
Pinecrest, FL 33156

drawn by:	H.M.O.
checked by:	C.E.H.
date:	01/12/2026
job no:	
sheet:	

S3