

GENERAL CONDITIONS

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.

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

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 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

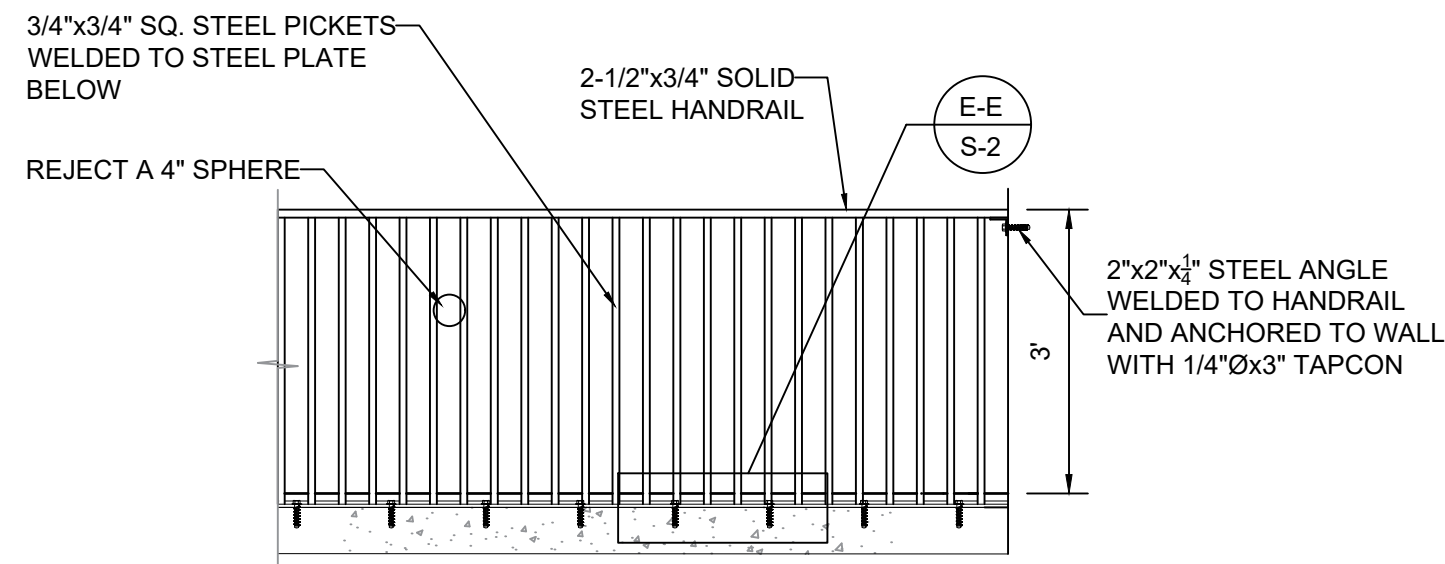
1. STRUCTURAL STEEL DESIGN SHALL CONFORM TO THE LATEST AISC CODE REQUIREMENTS
2. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A572 GRADE 50 FOR STEEL PLATES, ANGLE, SOLIDS, AND BARS INCLUDING HANDRAIL AND PICKETS.
3. STRUCTURAL TUBING SHALL CONFORM TO A.S.T.M. A500, GRADE B (Fy=46 KSI) FOR COLUMNS HSS.
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

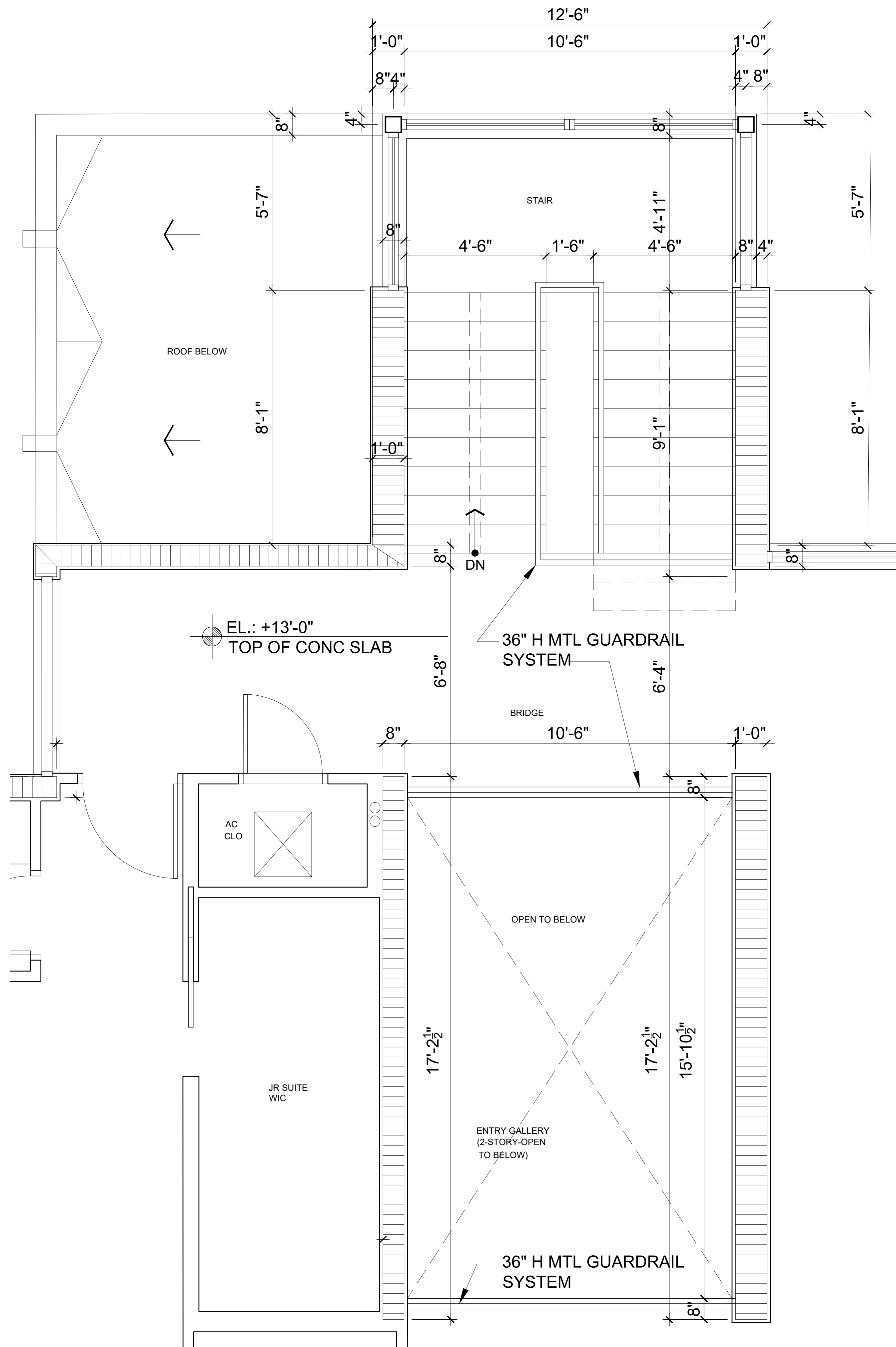
ALL CONNECTIONS SHALL BE FIELD WELDED W/ A 3/16" FILLET WELD, UNLESS OTHERWISE NOTED. WELDING SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE

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.



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



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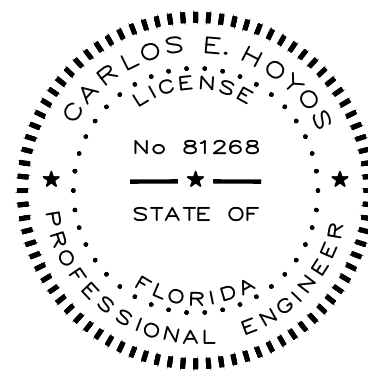
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HE HOYOS
ENGINEERING

CIVIL & STRUCTURAL ENGINEERING

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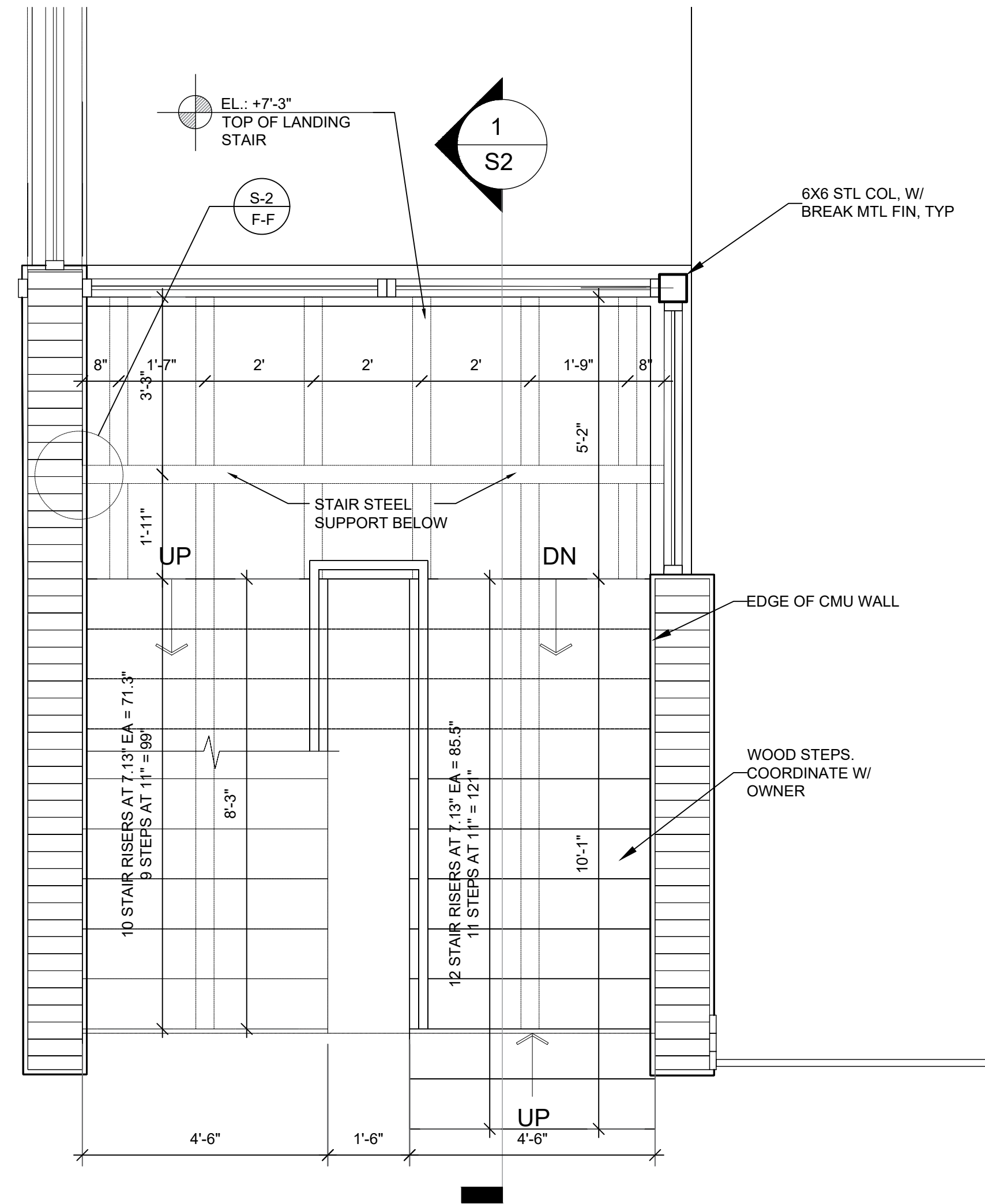
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INTERIOR STEEL STAIRS & RAILINGS

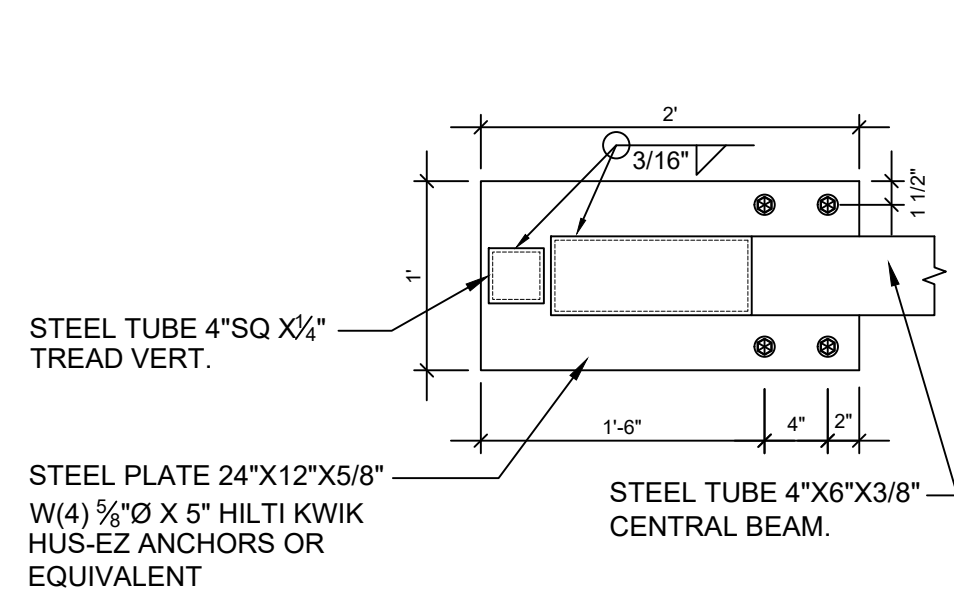
6100 W Suburban Dr.
Pinecrest, FL 33156

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checked by:	C.E.H.
date:	01/12/2026
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sheet:	

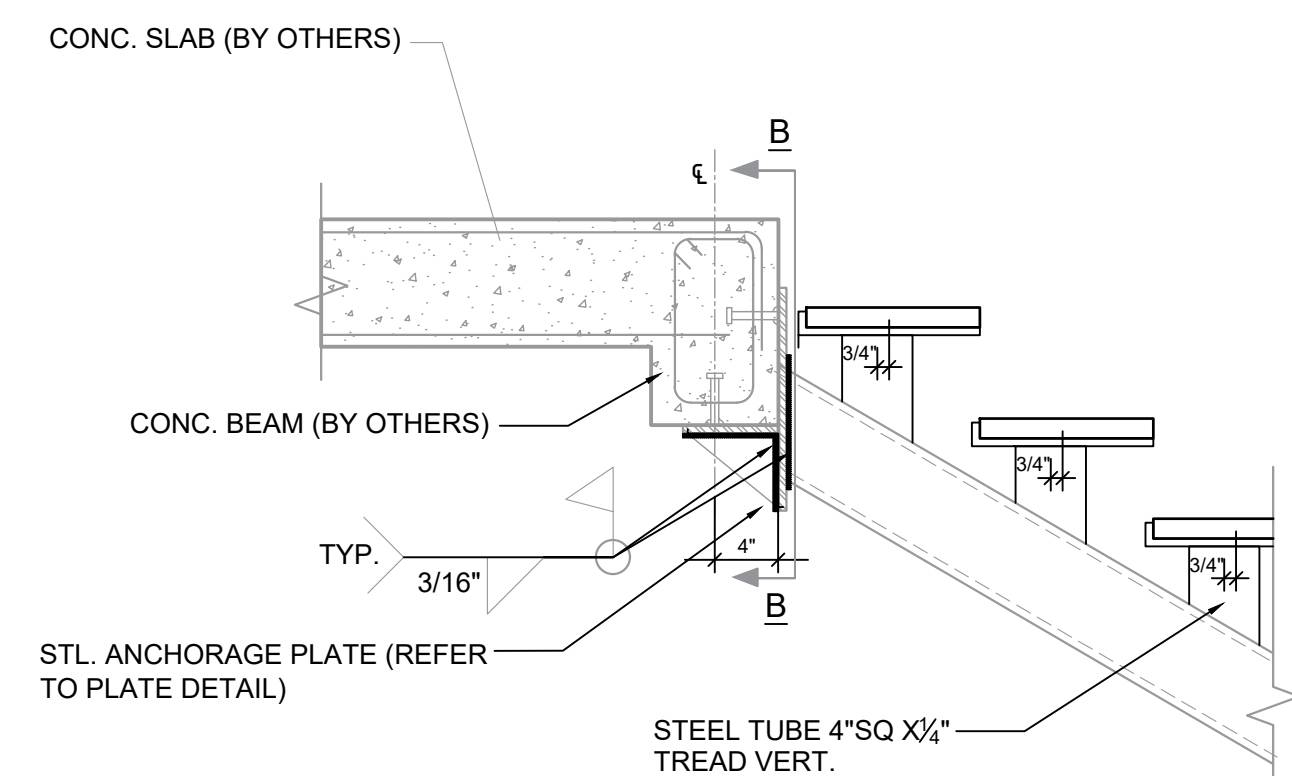
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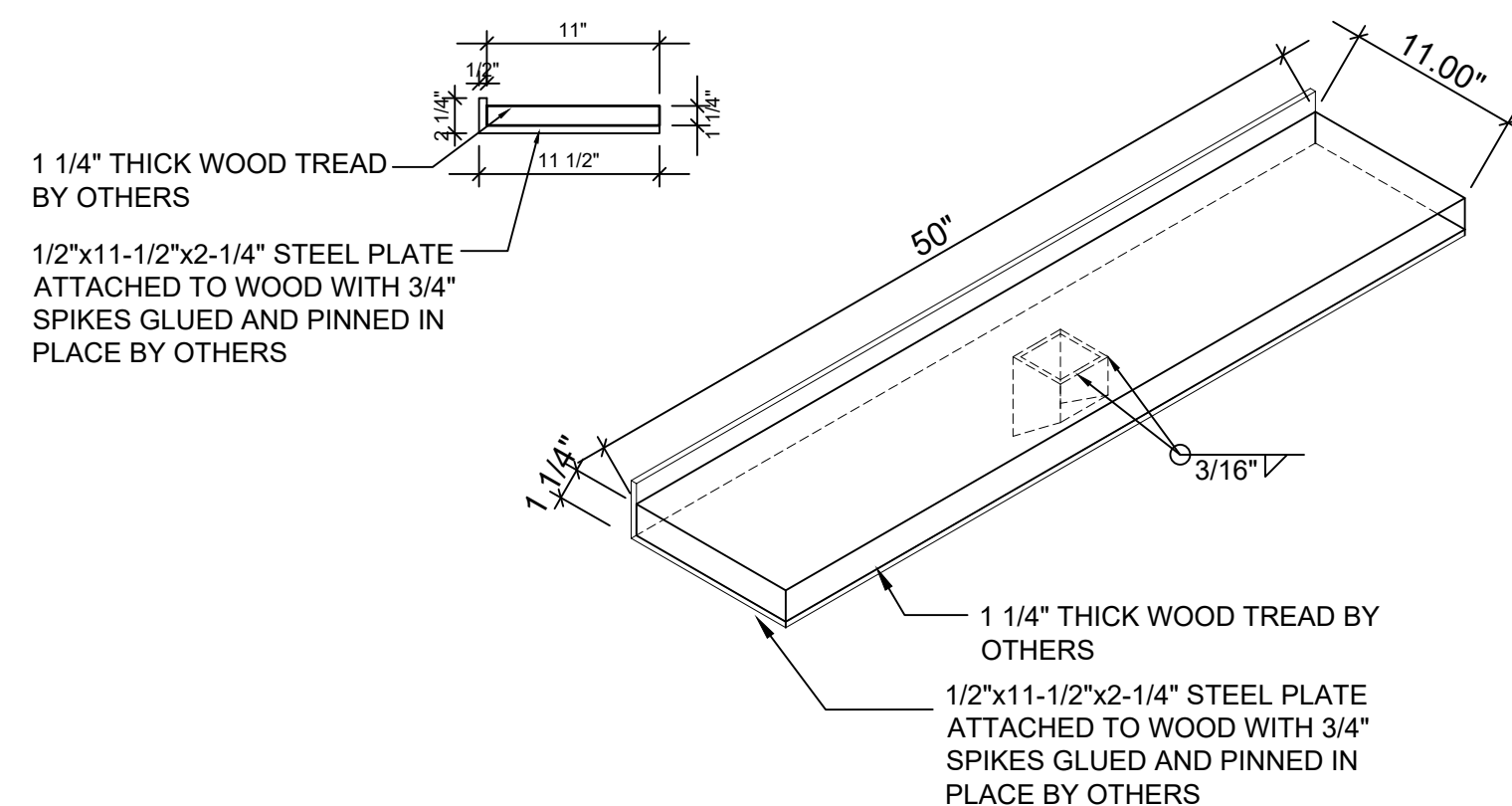
INTERIOR STAIR PLAN VIEW
SCALE: 1/2" = 1'-0"



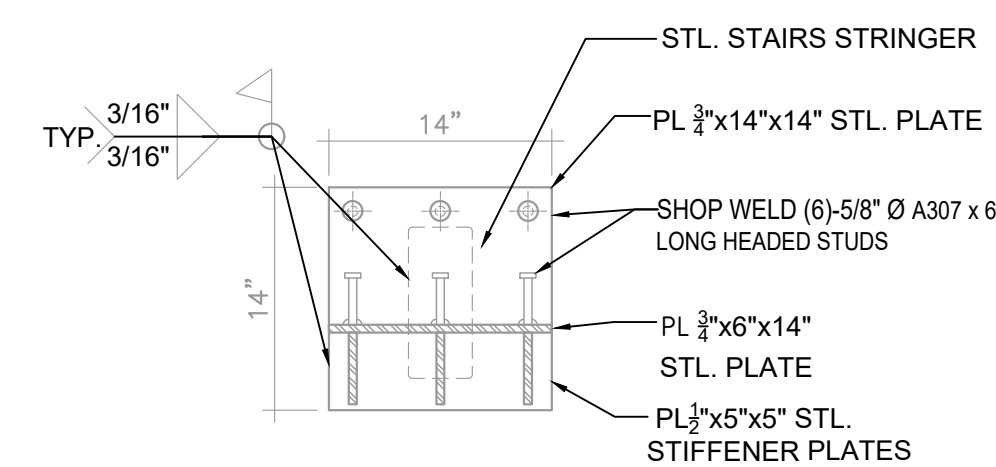
DETAIL A-A
SCALE: 1" = 1'-0"



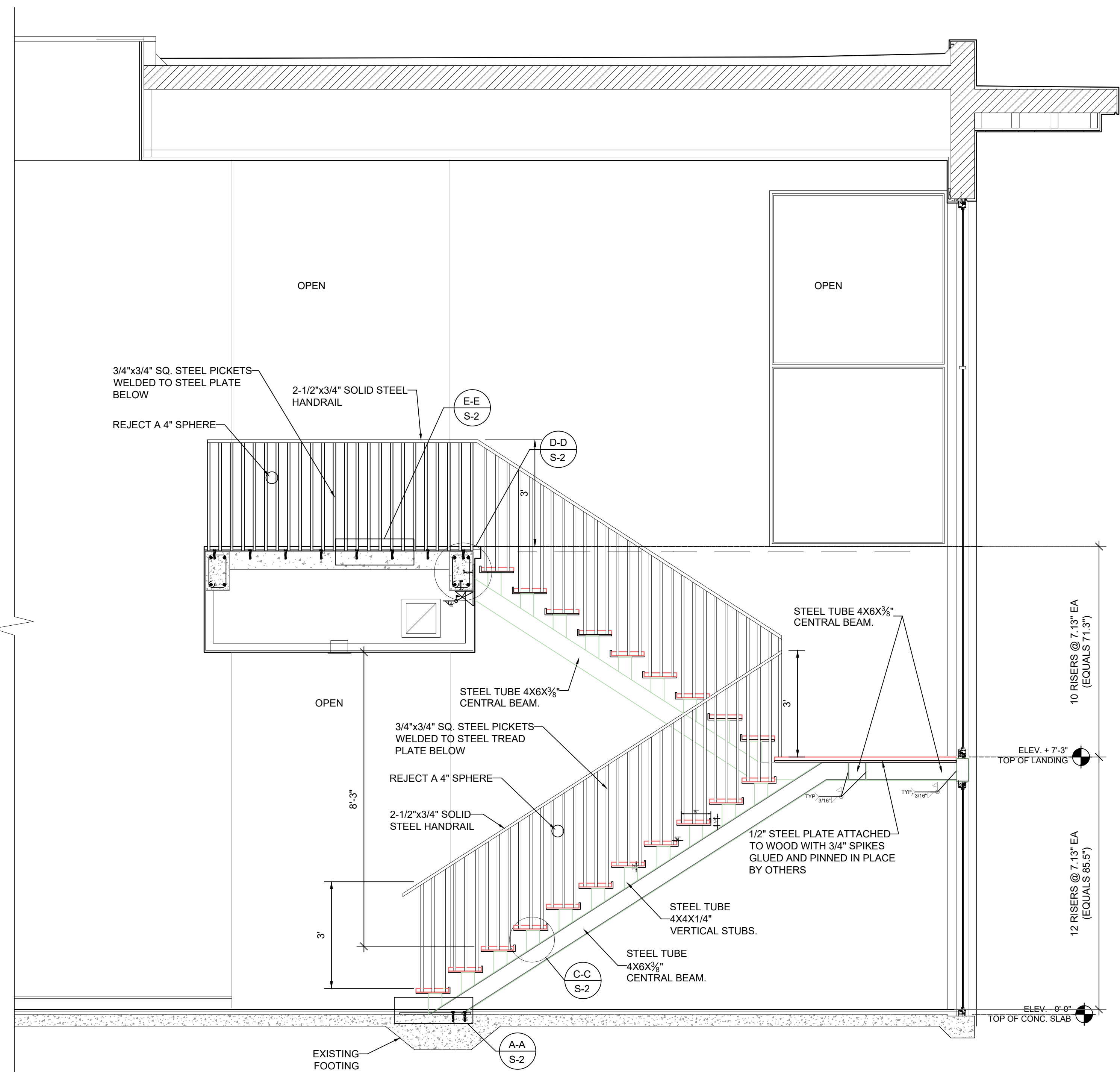
METAL STAIRS CONNECT. DETAIL D-D
SCALE: 1" = 1'-0"



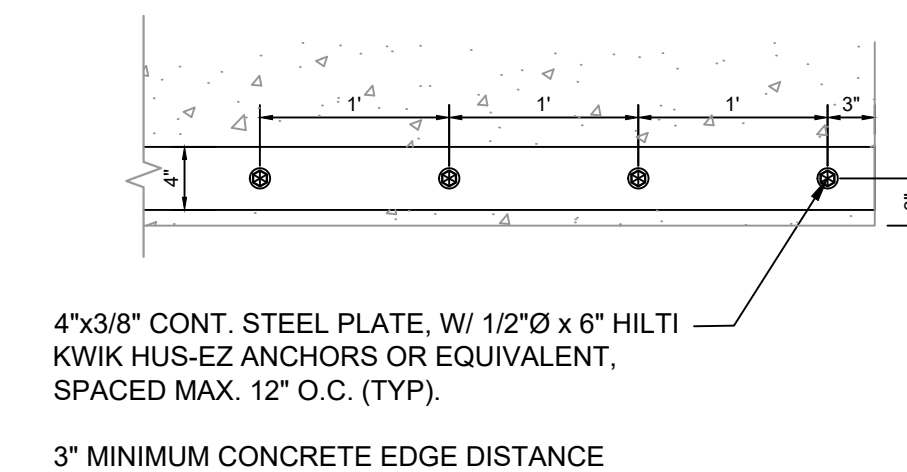
TYPICAL TREAD DETAIL C-C
SCALE: 1" = 1'-0"



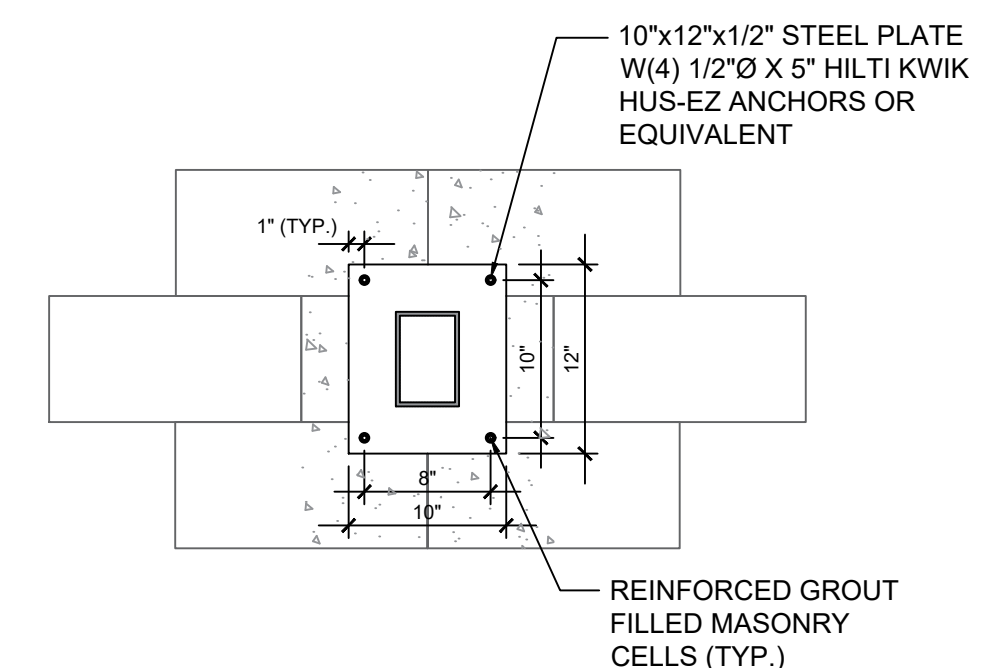
SECTION B-B ANCHORAGE PLATE-B
SCALE: 1" = 1'-0"



SECTION 1 / S2
SCALE: 1/2" = 1'-0"



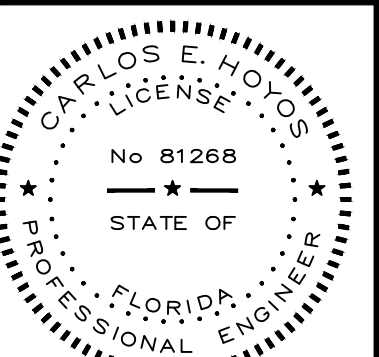
DETAIL E-E
SCALE: 1" = 1'-0"



DETAIL F-F
SCALE: 1" = 1'-0"

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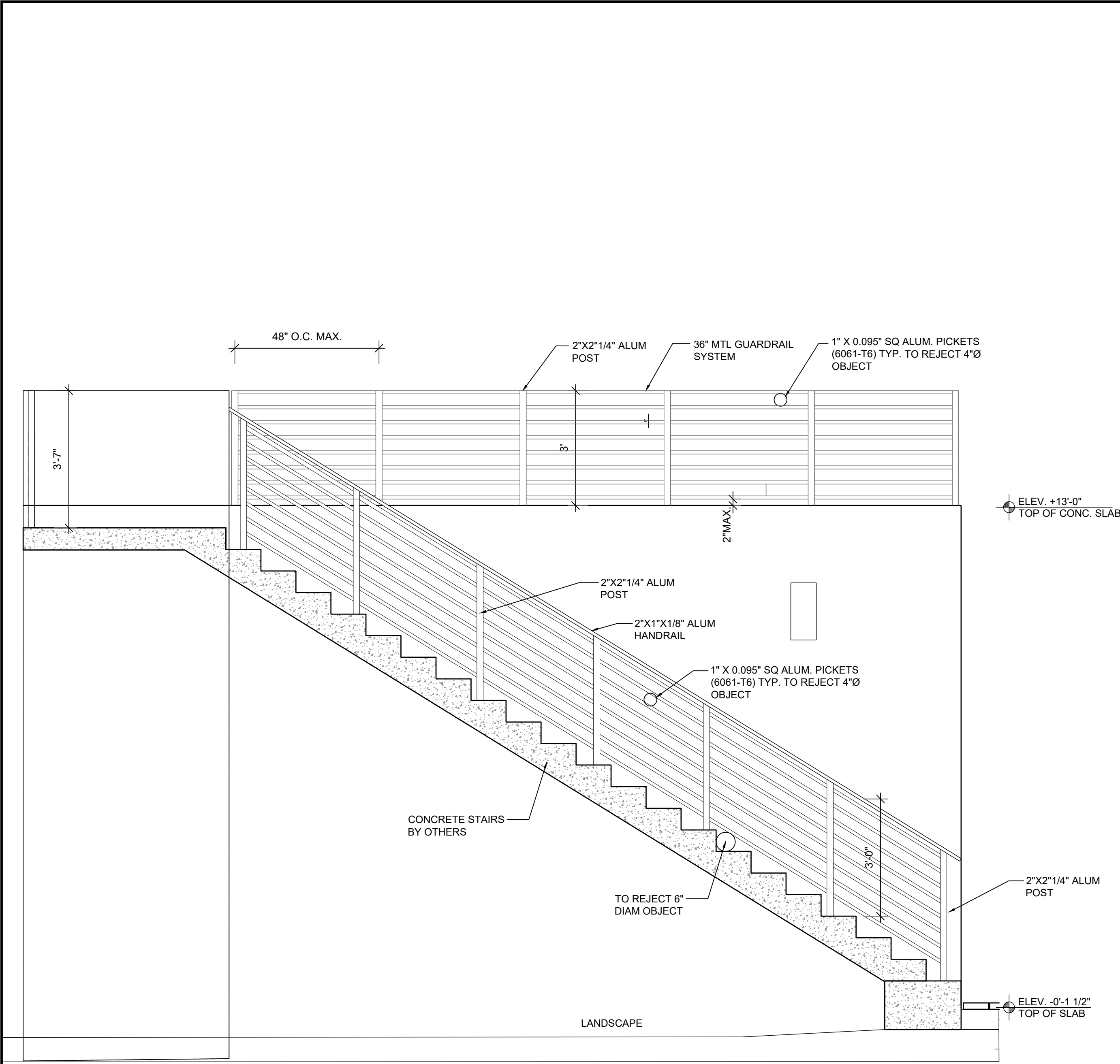
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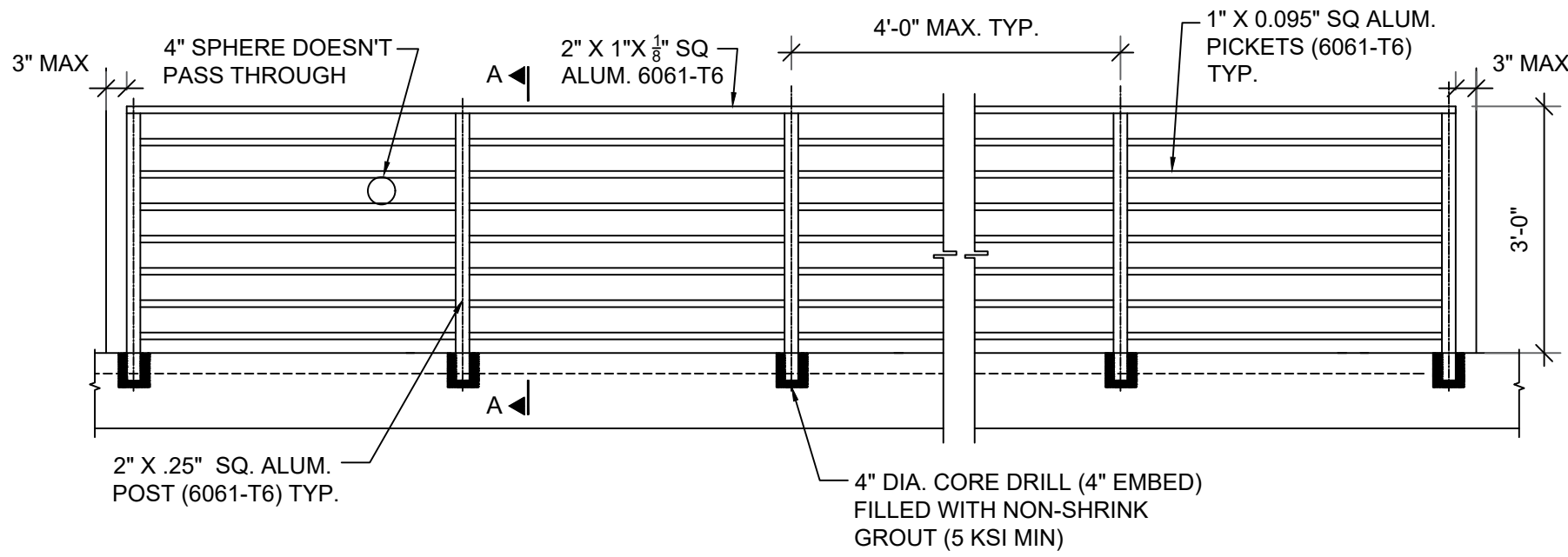
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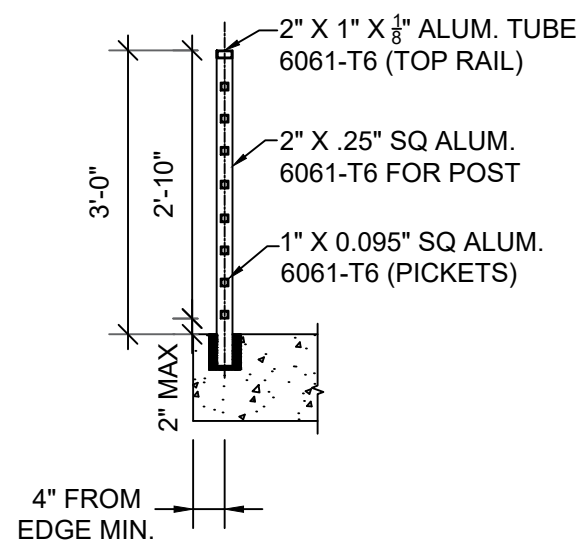
S2



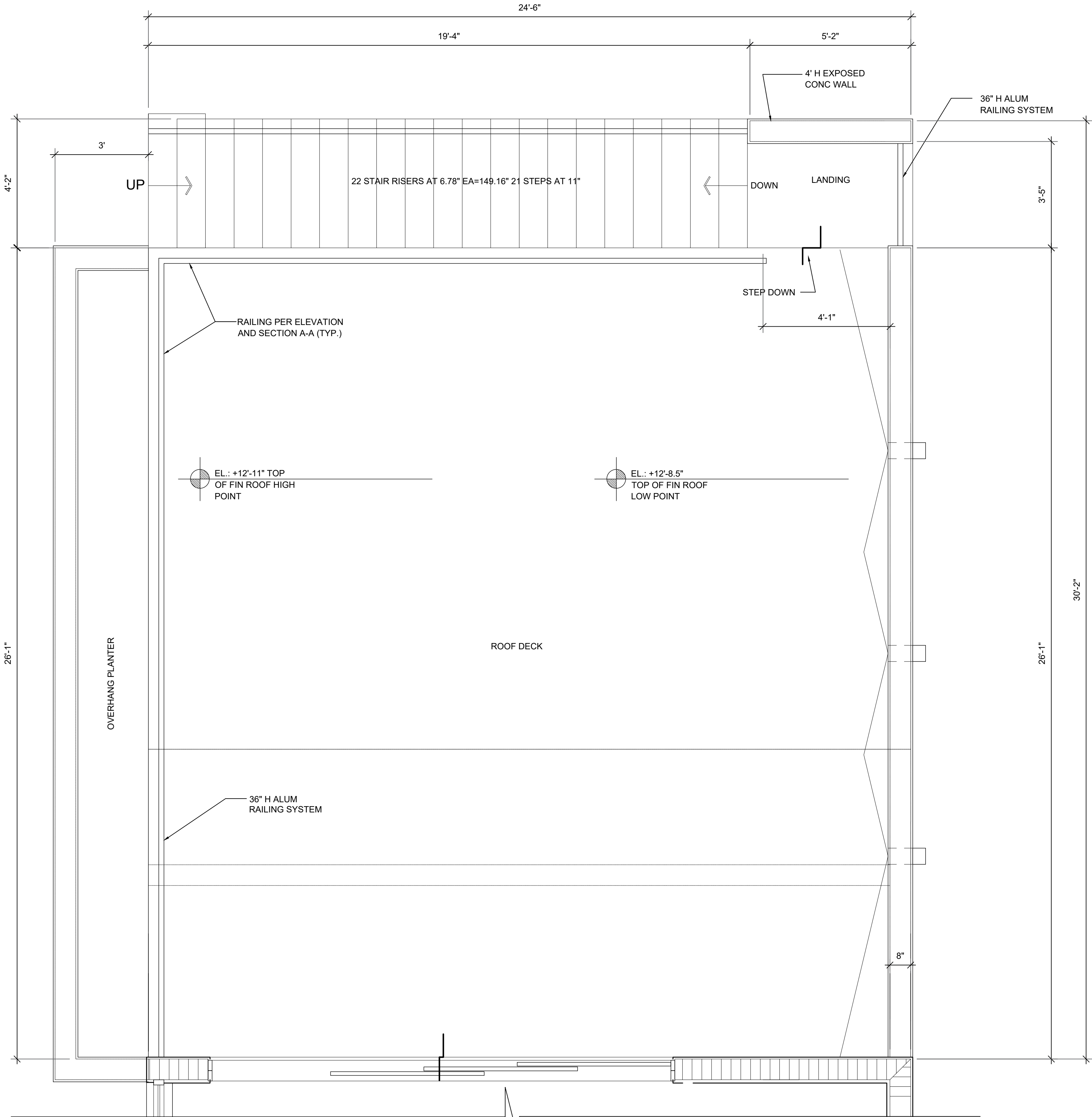
EXTERIOR RAILING SECTION
SCALE: 1/2" = 1'-0"



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



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



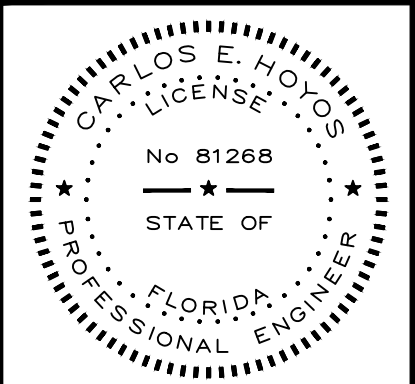
EXTERIOR RAILING PLAN VIEW
SCALE: 1/2" = 1'-0"

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