STRUCTURAL NOTES

GENERAL NOTES:

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT ARCHITECTURAL DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. APPLICABLE BUILDING CODE STANDARDS: FBC–2020, ACI 318–14, BUILDING CODE REQUIREMENTS
FOR STRUCTURAL CONCRETE, TMS 402–16/TMS 602–16, AISI SPECIFICATION FOR THE DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS 2016, ASCE 7–16 AND AISC SPECIFICATIONS

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PRO–CEDURES AND SEQUENCES TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS WORK INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.

THE CONTRACTOR SHALL SUPPLEMENT THE MINIMUM REQUIRED FOUNDATION AND SITE PREP–ARATION REQIREMENTS AND SLAB–ON–GRADE THICKNESS TO HANDLE CONSTRUCTION LOADS.

DESIGN LOADS:

STAIRS: LIVE LOAD 40 psf
300 lb POINT LOAD

WIND: DESIGN WIND SPEED = 150 mph (67.0 m/s) 3–SECOND GUST
(ASCE 7–16 (FBC 2020) EXPOSURE C, RISK CATEGORY II)

CONTRACTOR/FABRICATOR:
PROVIDE NON–SLIP COATING ON ALL WALKING SURFACES

INSPECTOR NOTE
NEW STRUCTURAL COMPONENTS WERE DESIGNED BASED ON THE FBC 2020, AND ASCE 7–16, 150 MPH (3 SEC), EXP. C. RISK CAT. 2.

CONTRACTOR/ FABRICATOR NOTE
ALL METAL IS TO BE EPOXY–POWDER COATED

CONTRACTOR/INSPECTOR NOTE:
DIAMOND PLATE IS TO BE COATED WITH A NON–SLIP COATING. FABRICATOR IS TO ENSURE THAT THERE ARE NO SHARP EDGES

CONTRACTOR/ FABRICATOR NOTE
STAIRWELL TO BE TESTED AGAINST ELECTROSTATIC DISCHARGE

FOUNDATION/SITE PREPARATION:

FOOTINGS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF, FOOTING EXCAVATIONS AND SLAB SUBGRADE SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY, DETERMINED IN ACCORDANCE WITH ASTM D–1557. TREAT ALL SOIL FOR TERMITE PROTECTION.

THE OWNER SHALL RETAIN THE SERVICES OF AN INDEPENDENT GEOTECHNICAL ENGINEER TO VERIFY SUCCESSFUL COMPLETION OF SITE PREPARATION EFFORTS. LOCATIONS FAILING TO MEET THE GEOTECHNICAL ENGINEER'S REQUIREMENTS SHALL BE RECOMPACTED AND RETESTED AT THE CONTRACTOR'S EXPENSE, AND AS DIRECTED BY THE ENGINEER. WRITTEN CERTIFICATION THAT THE MINIMUM DESIGN BEARING CAPACITY, AND THAT THE COMPACTION REQUIREMENTS HAVE BEEN MET SHALL BE MADE BY THE GEOTECH. ENGINEER.

CONCRETE:

CONCRETE SHALL ACHIEVE MINIMUM 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
3,000 PSI REGULAR WEIGHT FOR SLABS AND FOOTINGS

CONTRACTOR SHALL SUBMIT PROPOSED MIX DESIGNS, WITH HISTORICAL STRENGTH DATA FOR EACH SEPARATE MIX PRIOR TO CONCRETE PLACEMENT. CONCRETE SLUMP SHALL NOT EXCEED 5" +/– 1" PRIOR TO THE ADDITION OF PLASTICIZER.

CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ACI 301 AND ASTM C–94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME–STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM WHEN WATER IS ADDED TO THE MIX UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED 90 MINUTES. IF FOR ANY REASON THERE IS A DELAY SUCH THAT A BATCH IS HELD FOR LONGER THAN 90 MINUTES, THE CONCRETE SHALL NOT BE PLACED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LABORATORY TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRAC–TOR OF ANY NONCOMPLIANCE WITH THE ABOVE.
REQUIRED CONCRETE COVERAGE OVER REBAR SHALL BE AS FOLLOWS:
A. 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (FOUNDATIONS)
B. FOR CONCRETE EXPOSED TO EXTERIOR WEATHER:
1–1/2" FOR #5 AND SMALLER
2" FOR #6 AND LARGER

WELDED WIRE MESH:

WELDED WIRE MESH, SHALL BE ASTM A185, GRADE 65, FREE FROM OIL, SCALE, AND RUST, AND SHALL BE PLACED IN ACCORDANCE WITH THE ACI TYPICAL DETAILS. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES. WIRE MESH FOR SLABS SHALL BE SUPPORTED W/ 2" CHAIRS SPACED 3'–0" OC, EACH WAY

FORMWORK:

FORMWORK, SHORING, AND BRACING FOR ALL CONCRETE BEAMS, SLABS, COLUMNS, WALLS, AND FOOTINGS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".

EXCLUSIONS FROM THESE PLANS

WATERPROOFING, FLASHING, SOUND ISOLATION, FIRE SEPARATION, OR OTHER NON–STRUCTURAL ITEMS ARE NOT PART OF THESE PLANS AS THEY ARE NOT CONSIDERED TO BE STRUCTURAL. DEPENDING ON THE TYPE OF CONSTRUCTION THESE ITEMS SOME OR ALL MAY BE REQUIRED BUT ARE BY OTHERS.

REINFORCING STEEL:

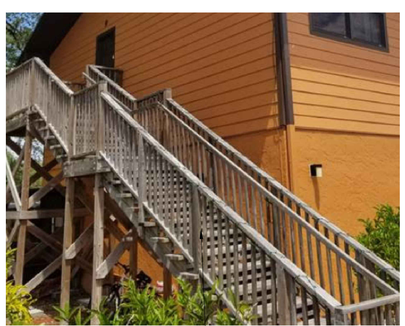
REBAR SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE, AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF THE ACI STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. HORIZONTAL AND VERTICAL BARS SHALL LAP 6 x BAR NO., SEE LAP SPLICE SCHEDULE. UNSCHEDULED FIELD LAPS ARE SUBJECT TO ENGINEER'S REVIEW.

TENSION LAP SPLICE SCHEDULE

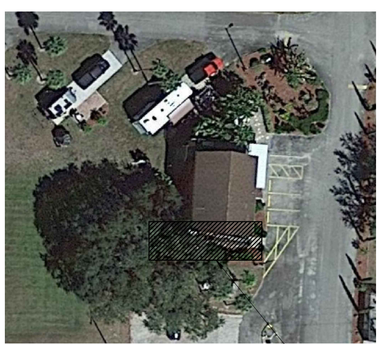
		PLAN REINFORCEMENT			
		OTHER THAN TOP BARS		TOP BARS	
BAR #	MASONRY SPLICE LENGTH	(3000 PSI)	(4000 PSI)	(3000 PSI)	(4000 PSI)
3	–	16"	16"	21"	18"
4	24"	22"	19"	28"	24"
5	30"	27"	23"	35"	30"
6	36"	35"	31"	46"	40"
7	42"	48"	42"	63"	54"

PROVIDE 36" x 36" CORNER BARS, BOND BEAM ONLY, LAPPED AND TIED TO EACH BEAM REBAR, SEE DETAILS FOR ADDITIONAL INFORMATION.

GENERAL NOTES:
1–FABRICATION AND ASSEMBLY AS PER APPROVED SUBMITTED SHOP SHOP DRAWINGS AND IN ACCORDANCE WITH INDUSTRY PRACTICE AND TOLERANCES. ALL DIMENSIONS ARE NOMINAL APPROXIMATELY AND CAN VARY.
2–MATERIAL SHALL BE AS FOLLOWS:
ALL ALUMINUM TO BE 6061–T6
3–ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH.
4–ALL ELECTRODES TO BE 70XX.
5–ALL BOLTS AND FASTENERS TO BE STAINLESS STEEL.
6–HANDRAIL WAS DESIGNED BASED ON 50 LB/FT UNIFORM LOAD AND 200 LB CONCENTRATED POINT LOAD PER 2020 FBC, ASCE 7–16, V=150 MPH, EXP. C, RISK CATEGORY II.
7– STAIRWELL WAS DESIGNED FOR 40 PSF LIVE LOAD AND 25 PSF DEAD LOAD.
8–ALL ALUMINUM IN DIRECT CONTACT WITH CEMENTITIOUS MATERIAL SHALL BE PROTECTED WITH AN ANTI–CORROSION BARRIER.
9–NOTIFY THIS ENGINEER OF ANY DISCREPENCIES.



EXISTING WOOD STAIRS TO BE REMOVED AND REPLACED



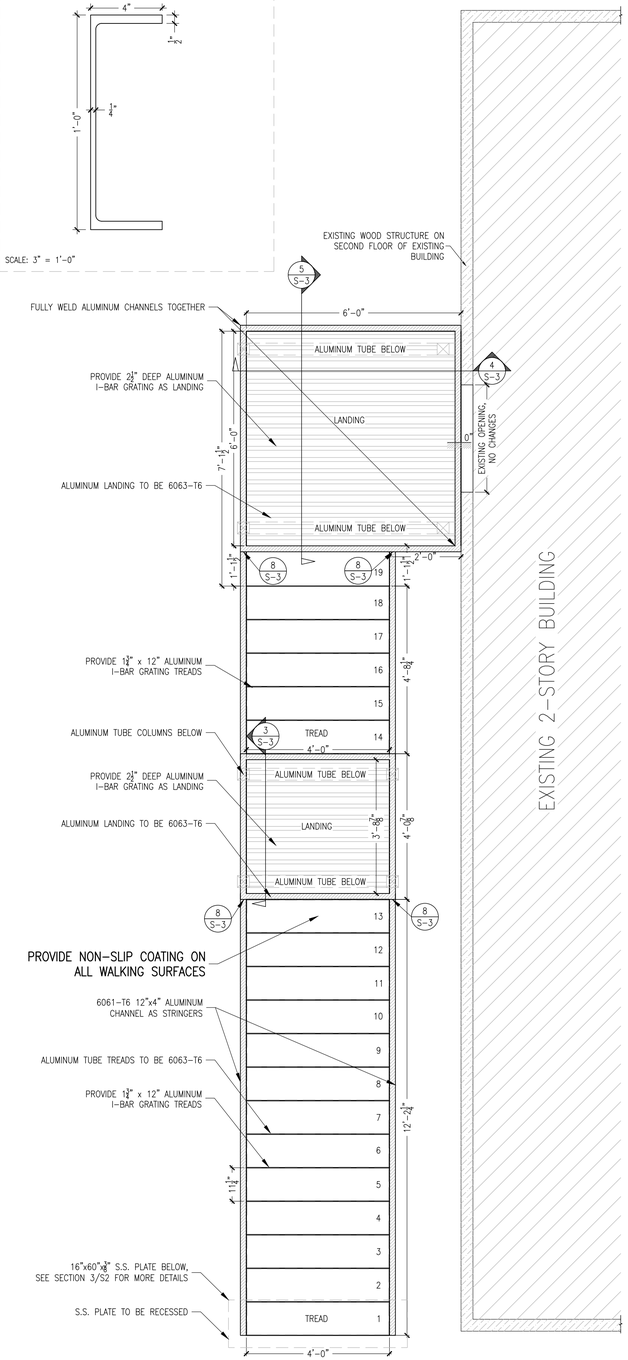
AREA OF WORK

AERIAL VIEW
SCALE: 1/4" = 1'–0"

CONTRACTOR NOTE:
FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION

6061–T6 12x4 ALUMINUM CHANNEL

SCALE: 3" = 1'–0"



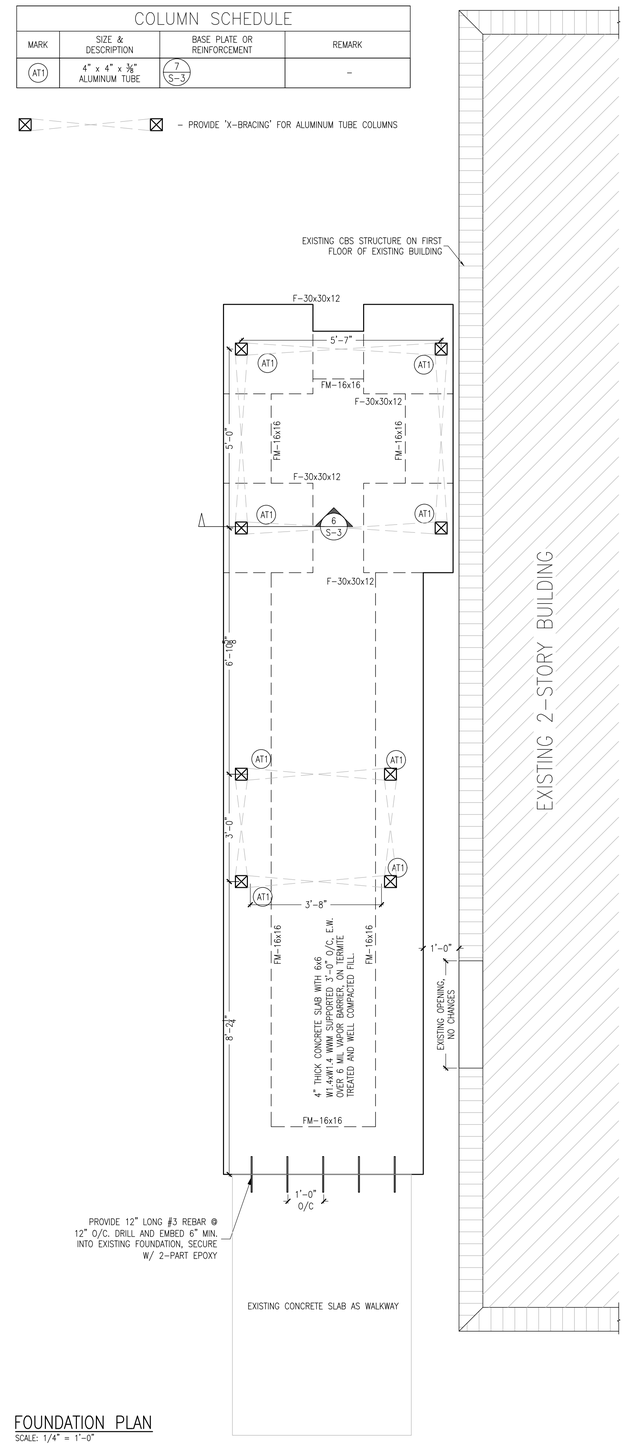
ALUMINUM STAIR LAYOUT (PLAN VIEW)
SCALE: 1/4" = 1'–0"

FOOTING SCHEDULE							
MARK	WIDTH	LENGTH	THICKNESS	BOTTOM REINF.		TOP REINF.	T.O.F.
				SHORT	LONG		
FM–16x16	16"	CONTINUOUS	16"	–	(2) #5's	–	(+)0'–0"
F–30x30x12	30"	30"	12"	(3) #5's	(3) #5's	–	(+)0'–0"

PROVIDE CORNER BARS, SAME SIZE AND QUANTITY AS BAR IN FOUNDATION, WITH 30" LEG EACH WAY.

COLUMN SCHEDULE			
MARK	SIZE & DESCRIPTION	BASE PLATE OR REINFORCEMENT	REMARK
AT1	4" x 4" x 3/8" ALUMINUM TUBE	7 / S–3	–

– PROVIDE 'X–BRACING' FOR ALUMINUM TUBE COLUMNS



FOUNDATION PLAN
SCALE: 1/4" = 1'–0"

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SHEET INFORMATION
FOUNDATION PLAN, STAIR LAYOUT AND GENERAL NOTES

PROJECT INFORMATION
34950 HALL ROAD, CLEWISTON, FL 33440

CLIENT INFORMATION
SEMINOLE TRIBE OF FLORIDA
6300 STIRLING ROAD, HOLLYWOOD, FL 33024

SPECIALTY ENGINEERING AND DESIGN, LLC

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DADE – BROWARD – PALM BEACH

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FILE NAME. struct_BC RV resort
SCALE 1/4"=1'–0"
DATE 06/23/2023
RV'D. BY D.A.L.
DRWN. BY E.M.
REVISION 0

61G-15.0100, F.A.C. – ALONG FOR WET SEALS EMBOSSED SEALS AND DIGITAL CREATED SEALS (DIGITALLY CREATED SEALS SHALL COMPLY WITH 61G15–.0022).

Dewey A. LeBlanc
Digitally signed by Dewey A. LeBlanc
Date: 2023.06.27 13:40:53 -04'00'
6/27/23

SEAL
GARY McDOUGLE, PE FL #56214
D. MARK LeBLANC, PE FL #35683
D. ADAM LeBLANC, PE FL #77012

SHEET # S1 OF 3

RISE = 11'-3" (VIF) = 135"
20 STEPS @ 6.75" (7" MAX. RISE)
19 TREADS @ 11¼" WIDE.
WIDTH OF STAIRS = 48"

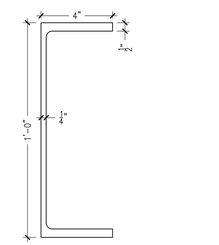
INSPECTOR NOTE
SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR STAIR HAND AND GUARD RAILS FOR REVIEW AND APPROVAL BY A STATE OF FLORIDA REGISTERED ENGINEER. BY OTHERS.

CONTRACTOR NOTE:
FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION

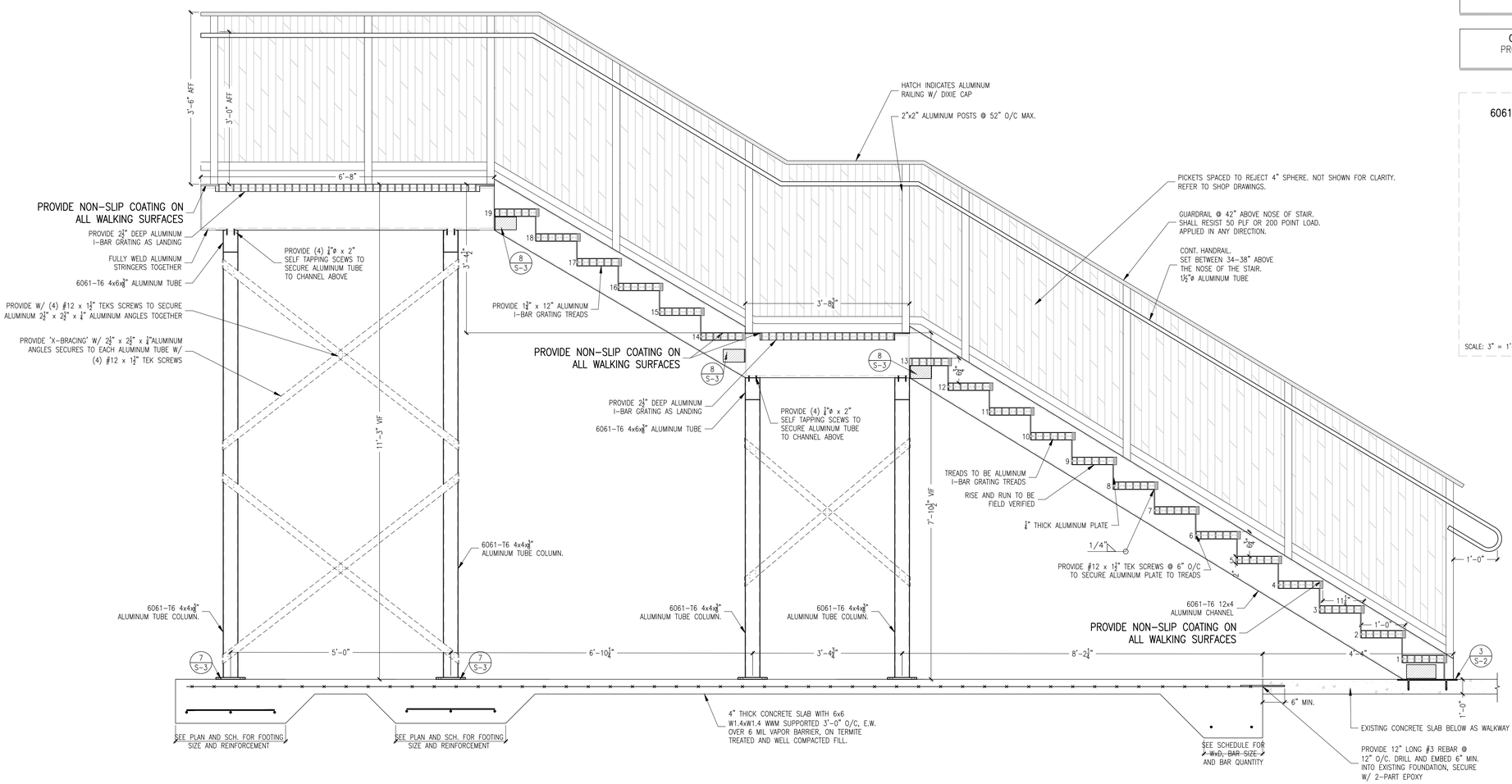
CONTRACTOR/FABRICATOER NOTE:
VERIFY RISE AND RUN IN FIELD

CONTRACTOR/FABRICATOER NOTE:
PROVIDE NON-SLIP COATING ON ALL WALKING SURFACES

6061-T6 12x4 ALUMINUM CHANNEL



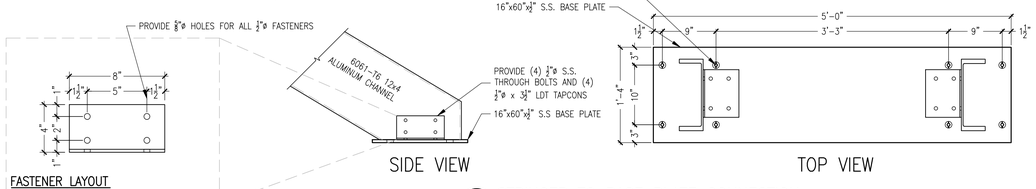
SCALE: 3" = 1'-0"



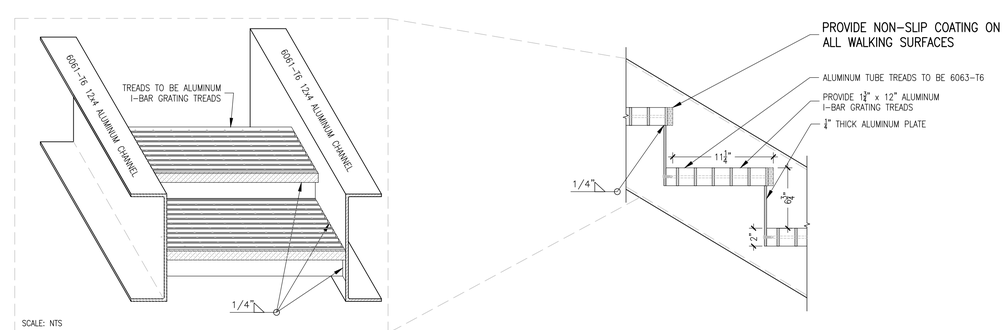
1 S-2 ALUMINUM STAIR SCHEMATIC
SCALE: 3/4" = 1'-0"

1. ALL ALUMINUM TO BE 6061-T6
2. ALL ELECTRODES TO BE 70XX
3. ALL WELDS TO BE CONTINUOUS
4. PAINT W/ A PAINT HAVING A 95% ZINC OXIDE CONTENT.
5. ALL HOLES TO BE ½" ø FOR ⅜"ø x 4" COUNTERSUNK S.S. TITEN HD ANCHORS
6. SECURE BASE PLATE TO FOUNDATION W/ (8) ⅜" ø x 4" COUNTERSUNK TITEN HD ANCHORS, 3" MIN. EMBED.
7. NOTIFY THIS ENGINEER OF ANY DISCREPANCIES

CONTRACTOR/ FABRICATOR NOTE
ALL METAL IS TO BE
EPOXY-POWDER COATED



3 S-2 STRINGER TO BASE PLATE CONNECTION
SCALE: 1" = 1'-0"



2 S-2 TYPICAL TREAD DETAIL
SCALE: 1-1/2" = 1'-0"

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SHEET INFORMATION
ALUMINUM STAIR SCHEMATIC, SECTIONS AND DETAILS

PROJECT INFORMATION
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CLEWISTON, FL 33440

CLIENT INFORMATION
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FILE NAME. struct_BC RV resort
SCALE 1/4"=1'-0"
DATE 06/23/2023
RV'D. BY D.A.L.
DRWN. BY E.M.
REVISION 0

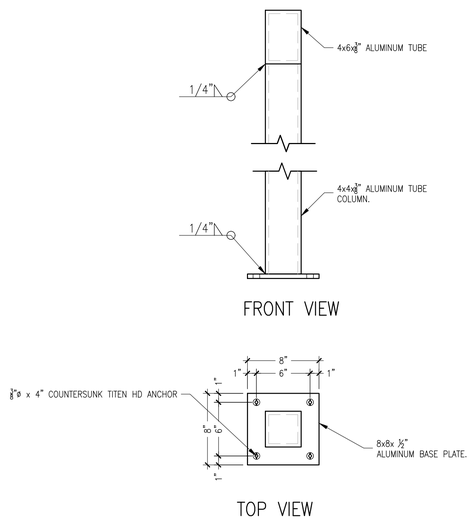
61-61G-23.002, F.A.C. ALLOWS FOR WET SEALS. EMBOSSED SEALS AND DIGITALLY CREATED SEALS (DIGITALLY CREATED SEALS SHALL COMPLY WITH 61G15-.002(2).

Dewey A. LeBlanc
Digitally signed by Dewey A. LeBlanc
Date: 2023.06.27 13:41:29 -04'00'
6/27/23

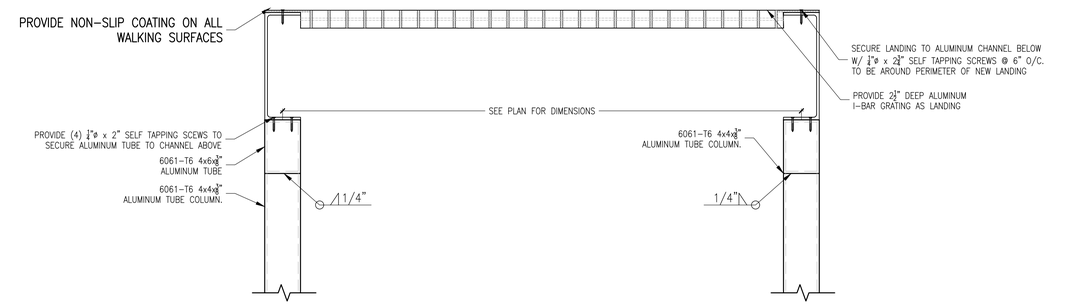
SEAL
GARY McDOUGLE, PE FL #56214
D. MARK LeBLANC, PE FL #35683
D. ADAM LeBLANC, PE FL #77012

SHEET # S2 OF 3

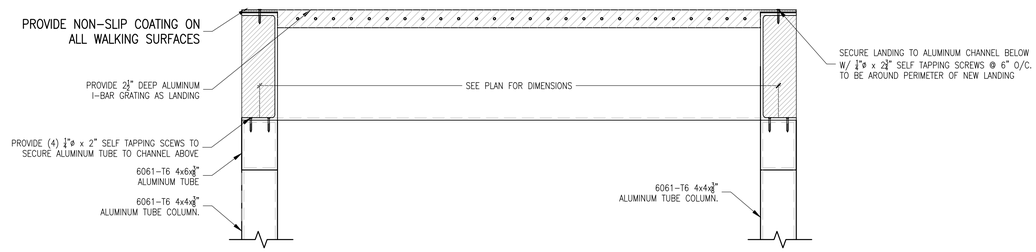
1. ALL ALUMINUM TO BE 6061-T6.
2. ALL ELECTRODES TO BE 70XX
3. ALL WELDS TO BE CONTINUOUS
4. PAINT W/ A PAINT HAVING A 95% ZINC OXIDE CONTENT.
5. ALL HOLES TO BE ½" ø FOR ⅜"ø x 4" COUNTERSUNK TITEN HD ANCHORS. BOLTS TO BE STAINLESS STEEL.
6. FIELD VERIFY THE HEIGHTS OF THE COLUMNS.
7. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
8. NOTIFY THIS ENGINEER OF ANY DISCREPANCIES



7 S-3 4x4x3/8" ALUMINUM COLUMN CONNECTIONS
SCALE: 1-1/2" = 1'-0"



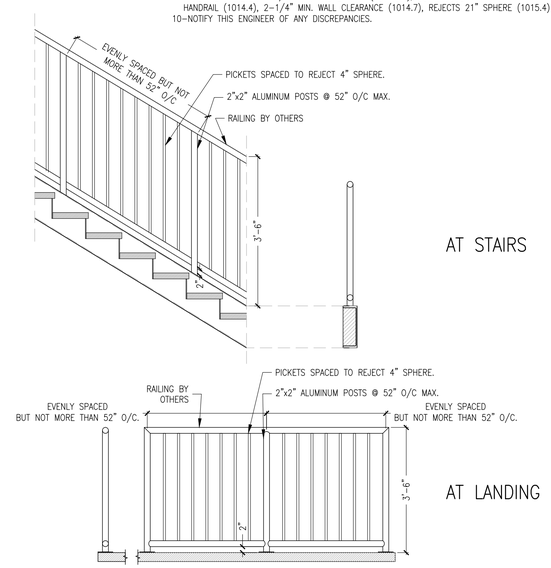
3 S-3 CROSS SECTION THROUGH 1ST STAIRWELL LANDING
SCALE: 1-1/2" = 1'-0"



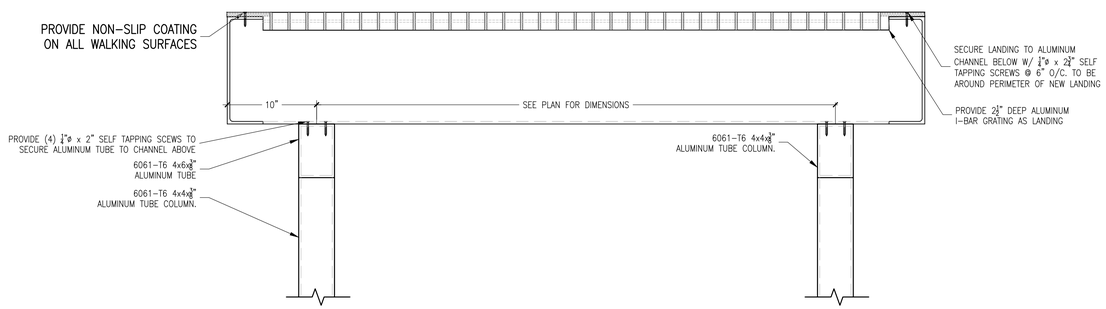
4 S-3 TYPICAL ALUMINUM FRAMING BELOW STAIRWELL LANDINGS
SCALE: 1-1/2" = 1'-0"

INSPECTOR NOTE
SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR RAILING FOR REVIEW AND APPROVAL BY A STATE OF FLORIDA REGISTERED ENGINEER. BY OTHERS.

GENERAL NOTES:
1-ALL ALUMINUM MEMBERS TO BE 6061-T6
2-STAIR HAND RAILS AND SAFEGUARDS TO BE 1½" x 2¾" ALUMINUM TUBE.
SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AND APPROVAL.
3-SAFEGUARD RAILINGS/POSTS TO BE 2" ø.
SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
4-FINISH: ESP BAKED POLYESTER POWDER COAT.
5-COLOR: TO BE APPROVED BY OWNER.
6-SHOP WELDED FABRICATION AND ASSEMBLY AS PER APPROVED SUBMITTED SHOP DRAWINGS AND IN ACCORDANCE WITH INDUSTRY PRACTICE AND TOLERANCES. ALL DIMENSIONS ARE NOMINAL APPROXIMATELY AND CAN VARY.
7-FABRICATOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
8-MATERIAL ORDER, FABRICATION AND INSTALLATION SHALL NOT COMMENCE UNTIL DWG ARE APPROVED BY CUSTOMER.
9-CODES(FBC-2017): HANDRAIL HEIGHT MIN. 34", MAX. 38"(1014.2), HANDRAIL DIAMETER 1-1/4" MIN. AND 2" MAX (1014.3.1), CONTINUOUS HANDRAIL (1014.4), 2-1/4" MIN. WALL CLEARANCE (1014.7), REJECTS 21" SPHERE (1015.4)
10-NOTIFY THIS ENGINEER OF ANY DISCREPANCIES.

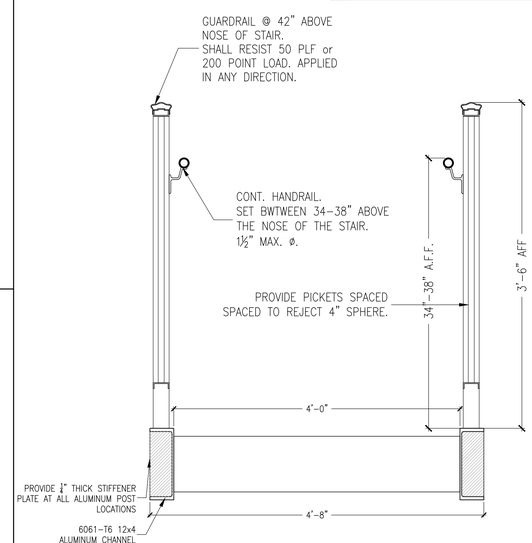


1 S-3 RAIL DETAILS
SCALE: 3/4" = 1'-0"

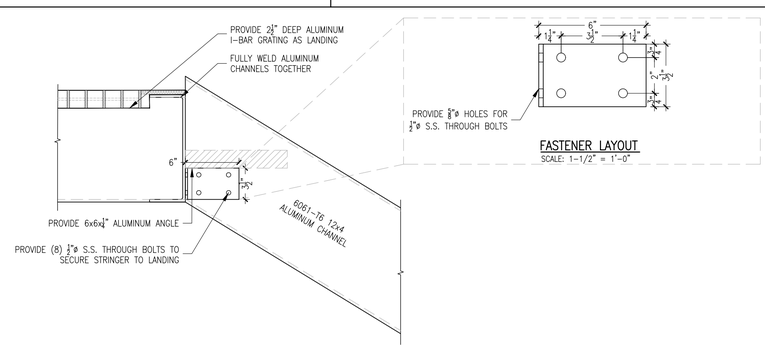


5 S-3 CROSS SECTION THROUGH 2ND STAIRWELL LANDING
SCALE: 1-1/2" = 1'-0"

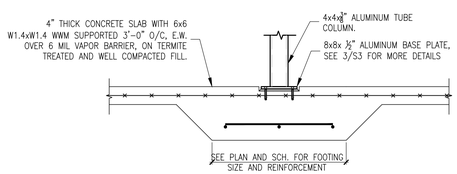
INSPECTOR NOTE
SUBMIT SHOP DRAWINGS FOR STAIR HAND AND GUARD RAILS FOR REVIEW AND APPROVAL. BY OTHERS.



2 S-3 TRANSVERSE STAIR/GUARD SECTION
SCALE: 1" = 1'-0"



8 S-3 STRINGER TO LANDING CONNECTION
SCALE: 1-1/2" = 1'-0"



6 S-3 TYPICAL COLUMN TUBE TO PAD FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

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SHEET INFORMATION
SECTIONS AND DETAILS

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DRWN. BY E.M.
REVISION 0

61-61G-23.002, F.A.C. - NO ONE FOR WET SEALS, EMBOSSED SEALS AND DIGITALLY CREATED SEALS. DIGITALLY CREATED SEALS SHALL COMPLY WITH 61G15-.002(2).

Dewey A. LeBlanc
Digitally signed by Dewey A. LeBlanc
Date: 2023.06.27 13:41:49 -04'00'
6/27/23

SEAL
GARY McDOUGLE, PE FL #56214
D. MARK LeBLANC, PE FL #35683
D. ADAM LeBLANC, PE FL #77012

SHEET # S3 OF 3