



- ### GENERAL STRUCTURAL NOTES
- THE STRUCTURAL PLANS SHALL BE WORKED IN COORDINATION WITH THE APPLICABLE PLANS OF THE OTHER DISCIPLINES AND THE PROJECT SPECIFICATIONS.
 - CONCRETE:
 - ALL CONCRETE WORK TO BE PERFORMED IN CONFORMANCE WITH THE LATEST ACI 301+ 318 CODE REQUIREMENTS AND DETAILING STANDARDS.
 - ALL CONCRETE SHALL BE MADE WITH STONE AGGREGATE AND SHALL DEVELOP 4000 PSI (3000 PSI FOR FILL CONC.) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS. EXPOSED EXTERIOR CONCRETE SHALL BE AIR ENTRAINED.
 - ALL REINFORCING SHALL BE HIGH STRENGTH DEFORMED BARS, GRADE 60, ASTM A 615, WITH 60,000 PSI MINIMUM YIELD STRENGTH; EXCEPT NO. 3 COLUMN TIES.
 - REINFORCEMENT PROTECTION: (U.N.O.)
 - CONCRETE POURED AGAINST EARTH: 3"
 - CONCRETE POURED IN FORMS BUT EXPOSED: 2"
 - SLABS AND WALLS: 1"
 - NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AS AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.
 - DETAIL BARS IN ACCORDANCE WITH ACI DETAILING MANUAL AND ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. PROVIDE CORNER BARS.
 - PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS.
 - SLAB AND GRADE BEAMS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE, AND STOP IN CONCRETE WORK MUST BE MADE AT CENTER OF SPAN WITH VERTICAL BULKHEADS UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE ENGINEER.
 - ALL EXPOSED CONCRETE, EXCEPT FLOATED SURFACES OF SLABS SHALL RECEIVE A RUBBED SURFACE FINISH. EXPOSED CORNERS SHALL BE CHAMFERED 3/4" U.N.O.
 - PROVIDE (B) #5 BARS X 2'-6" LONG, (4) EACH FACE, DIAGONAL, AROUND ALL PENETRATIONS 8" OR LESS IN WALL AND SLAB. PROVIDE (15) #5 BARS, (8) EACH FACE FOR PENETRATIONS OVER 8". CHAMFER EXPOSED EDGES OF CONCRETE 3/4".
 - ALL PIPE - WALL/SLAB PENETRATIONS SHALL BE CAST-IN-PLACE WALL PIPE. PIPE SHALL HAVE 1/4" STEEL WATERSTOP COLLAR.
 - PROVIDE MEGA-LUG JOINT RESTRAINT ON ALL UNDERSLAB MECHANICAL JOINT PIPING.

DRN BY: PMR	IDENTIFICATION NO.	ISSUED FOR	DATE	REVISED PER COMMENTS
DESIGN BY: PS/PMR	PROJECT - ALOHA	PRELIMINARY	11-30-93	
CHKD BY: GDA	STATE ACCOUNT	CONSTRUCTION	1-31-94	
APPD BY: GDA	607-75-2450-400	FINAL RECORD		

CAPITAL CONSULTANTS ENGINEERS

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

QUALITY OF LIFE RECREATION BOND
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
PARKS DIVISION - STATE ACCT. NO. 607-75-2450-400

ALOHA LAKE STATE PARK
AERATED PRIMARY TANK DETAILS

SCALE: 1/4" = 1'-0"
PROJ. NO.: 90134
SHEET 10 OF 13

L-116