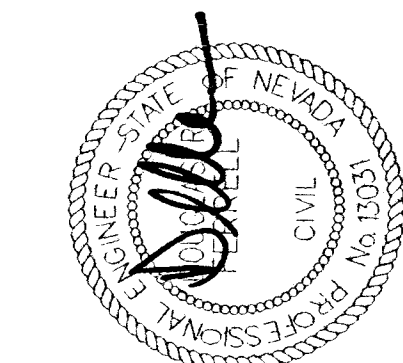
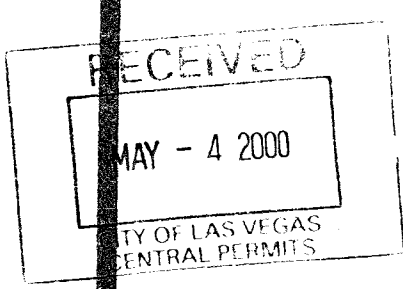




DAVID LUCCHESI
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEVADA
LICENSE NO. 10331
MECHANICAL
1000 S. LAS VEGAS AVENUE
SUITE 200
LAS VEGAS, NEVADA 89101
PHONE (702) 253-7111
FAX (702) 253-8111

MECHANICAL ROOM PLAN

SUMMERLIN ARBORS PARK
POOL AND POOL BUILDING



Revisions: 4/03/00 HD, CORR

Project No. 98035.00

Scale: 3/8" = 1'-0"

Drawn By: N/C

Sheet Number:

SP-12

EQUIPMENT LIST

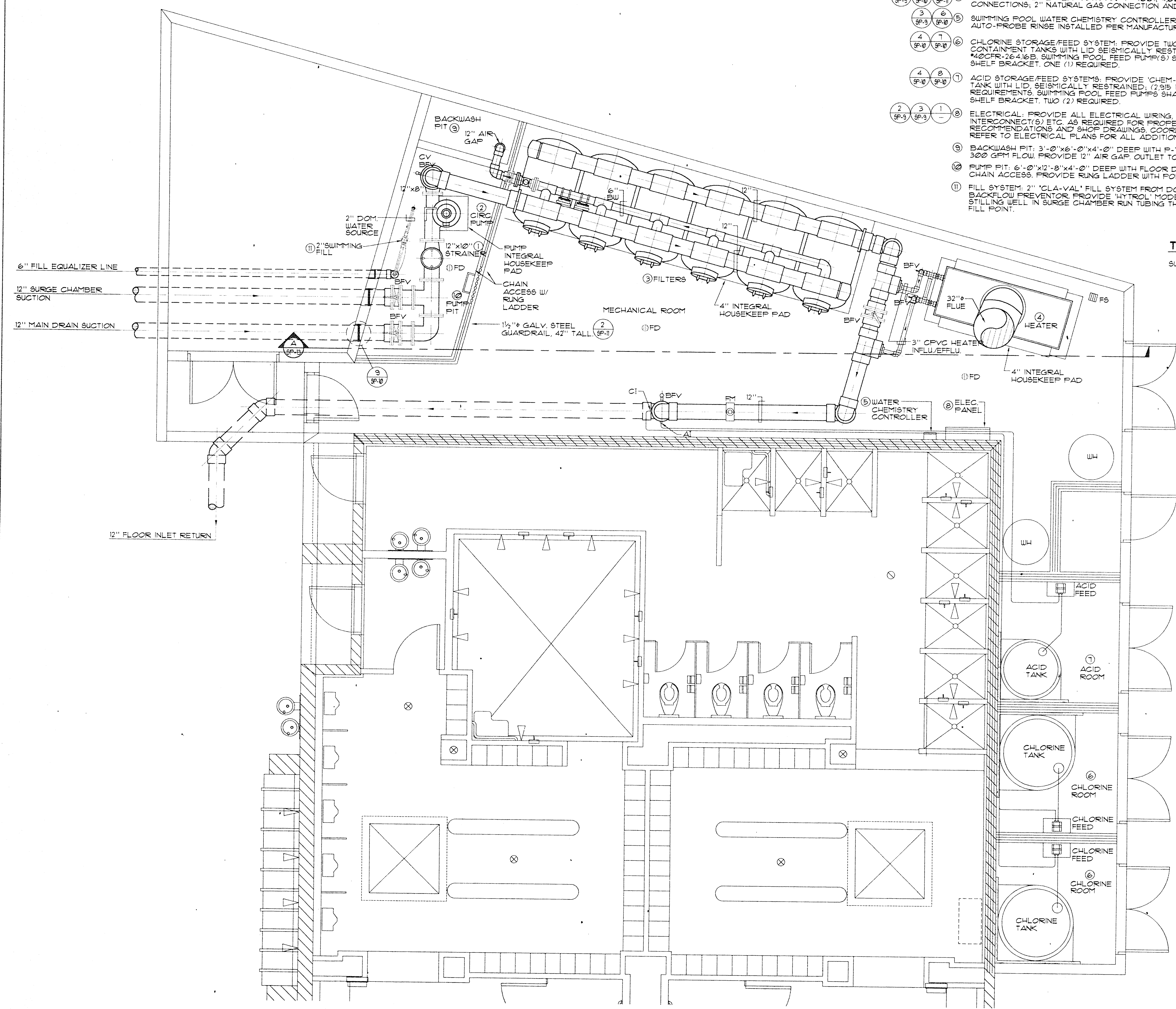
- ① SWIMMING POOL CIRCULATION PUMP STRAINER: 'MER-MADE' FRP STANDARD REDUCER BASKET STRAINER, WITH ACRYLIC LID AND TWO (2) STAINLESS STEEL STRAINER BASKETS, 12"x10" (150 lbs.)
- ② SWIMMING POOL CIRCULATION PUMP: 'PACO' 29N-18015-3 OR 4, 8"x10"x15" TYPE KPV SPLIT CASE CENTRIFUGAL PUMP, 1150 RPM, 460V, 3PH, (50HP) RATED AT 1650 GPM @ 15 FT. TDH, 88% EFFICIENT, HIGH EFFICIENCY TEFC MOTOR, EPOXY COAT WALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL, (1150 lbs.)
- ③ SWIMMING POOL FILTERS: 'PARAGON AQUATICS' 56-12 FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FIBERGLASS FILTERS WITH 120 SQ. FT. OF FILTER AREA RATED AT 1800 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 12" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE, PROVIDE ALL UTILITIES, PIPING, VALVING ETC. (4000 lbs. EA. TANK) 'EPD', 'STARK' OR EQUAL.
- ④ SWIMMING POOL HEATER: 'RAYPAK' P-4000, 4000000 BTU/HR INPUT, 3" WATER INFLUENT/EFFLUENT CONNECTIONS, 2" NATURAL GAS CONNECTION AND 32" FLUE THRU ROOF TO ATMOSPHERE (2500 lbs.)
- ⑤ SWIMMING POOL WATER CHEMISTRY CONTROLLER: 'STRANTRON SYSTEM-5' WSE-RAK WITH AUTO-PROBE RINGE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- ⑥ CHLORINE STORAGE/FEED SYSTEM: PROVIDE TWO (2) 'CHEM-TAINER' TC5256DC, 500 GALLON DUAL STORAGE/CONTAINMENT TANKS WITH LID SEISMICALLY RESTRAINED, (4160 lbs.) COMPLIES WITH FED. REG. #42CFR-264.163 REQUIREMENTS. SWIMMING POOL FEED PUMP(S) SHALL BE 'LMI' #C121-361 S1, 36 GPD AT 100 PSI WITH FRP SHELF BRACKET, ONE (1) REQUIRED.
- ⑦ ACID STORAGE/FEED SYSTEMS: PROVIDE 'CHEM-TAINER' TC5256DC, 350 GALLON DUAL STORAGE/CONTAINMENT TANK WITH LID, SEISMICALLY RESTRAINED, (2915 lbs.) COMPLIES WITH FED. REG. #42CFR-264.163 REQUIREMENTS. SWIMMING POOL FEED PUMPS SHALL BE 'LMI' #C121-361 S1, 36 GPD AT 100 PSI WITH FRP SHELF BRACKET, TWO (2) REQUIRED.
- ⑧ ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(S), STARTER/DISCONNECT(S), INTERCONNECT(S) ETC. AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS, COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELECTRICAL PLANS FOR ALL ADDITIONAL INFORMATION.
- ⑨ BACKWASH PIT: 3'-0"x6'-0"x4'-0" DEEP WITH P-TRAP OUTLET TO WASTE SIZED TO HANDLE 300 GPM FLOW. PROVIDE 12" AIR GAP. OUTLET TO BE 6" MIN. P-TRAP TO SEWER.
- ⑩ PUMP PIT: 6'-0"x12'-8"x4'-0" DEEP WITH FLOOR DRAIN, 1 1/2" GALV. STEEL GUARDRAIL AND CHAIN ACCESS. PROVIDE RUNG LADDER WITH POLYPRO PIT STEPS AT 12" O.C. VERT. LINCOLN #31-120
- ⑪ FILL SYSTEM: 2" 'CLA-VAL' FILL SYSTEM FROM DOMESTIC SOURCE PROTECTED WITH REDUCED PRESSURE BACKFLOW PREVENTOR. PROVIDE 'HYTROL' MODEL 100-0 VALVE WITH CFI FLOAT CONTROL IN 8" PVC STILLING WELL IN SURGE CHAMBER RUN TUBING THRU 6" FILL EQUALIZER LINE. PROVIDE 4" AIR GAP AT FILL POINT.

THREE PHASE MOTOR LOADS:

SWIMMING POOL CIRCULATION PUMP: 40 HP AT 460V = 52 AMPS

LEGEND

- BV = BALL VALVE
- CV = CHECK VALVE
- FM = FLOWMETER
- AI = ACID INJECTION
- CI = CHLORINE INJECTION
- FD = FLOOR DRAIN
- BFV = BUTTERFLY VALVE
- FS = FLOOR SINK



MECHANICAL ROOM PLAN

3/8" = 1'-0"