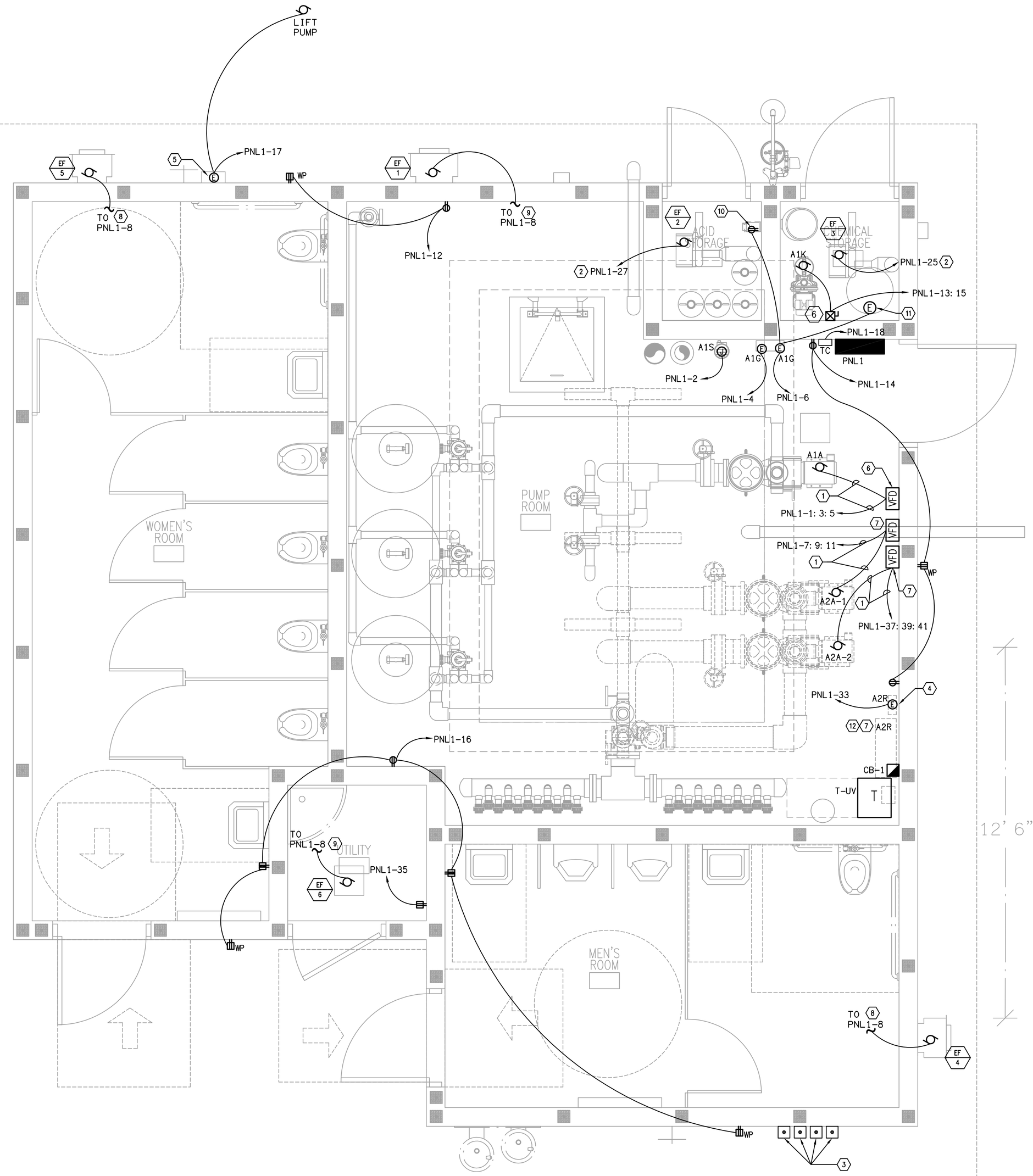

ELECTRICAL POWER PLAN

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

GENERAL NOTES:

1. REFERENCE OVERALL MECHANICAL LAYOUT ON POOL EQUIPMENT CONSULTANT SHEET PL4.00.
2. ALTERNATE POOL EQUIPMENT ARE DESIGNATED WITH A '2' IN THE ALPHANUMERIC EQUIPMENT TAG. PROVIDE CIRCUITRY AND ELECTRICAL EQUIPMENT ASSOCIATED WITH THESE ALTERNATE POOL EQUIPMENT ONLY IF THE ALTERNATE POOL EQUIPMENT ARE SELECTED FOR INSTALLATION.
3. REFERENCE SINGLE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET E5.01.
4. THE SHORT CIRCUIT CURRENT RATING OF VFDs AND STARTERS SHALL BE A MINIMUM OF 10,000A AT 240 VAC.

KEY NOTES:

1. 3/4" CONDUIT WITH (3) 8 AWG + (1) 8 AWG GROUND.
2. CIRCUIT THRU EMERGENCY SHUT-OFF EXTERIOR BUTTON. REFERENCE MECHANICAL FLOOR PLAN ON SHEET M3.01.
3. EMERGENCY SHUT-OFF PUSH BUTTONS FOR: FILTRATION PUMP, A1A, ACTIVITY PUMPS, A2A-1 AND A2A-2; A2A; AND CHLORINE BOOSTER PUMP, A1K. MAKE CONNECTION TO STARTER OR VFD CONTROL CIRCUIT SUCH THAT EACH PUMP IS INSTANTLY SHUT-OFF WHEN THEIR RESPECTIVE BUTTON IS PUSHED. PROVIDE BUTTONS WITH HINGED WEATHER PROOF PLASTIC COVERS. WALL-MOUNT AT 60" AFF TO BOTTOM. LABEL EACH BUTTON ACCORDINGLY.
4. EQUIPMENT CONNECTION FOR UV ALARM PANEL CONNECT TO CIRCUIT AS INDICATED.
5. EQUIPMENT CONNECTION FOR SIMPLEX ALARM SYSTEM AND PUMP CONTROL PANEL.
6. UTILIZE VFD/STARTER TO INTERLOCK CHLORINE BOOSTER PUMP WITH FILTRATION PUMP SUCH THAT BOOSTER PUMP IS "OFF" WHEN FILTRATION PUMP IS "OFF" OR IN BACKWASH MODE.
7. UTILIZED VFD SUCH THAT ACTIVITY PUMP A2A IS INTERLOCKED WITH UV EQUIPMENT A2R. REFERENCE THE POOL EQUIPMENT CONSULTANT'S SPECIFICATIONS.
8. TIE EXHAUST FAN TO LIGHTING CIRCUIT VIA OCCUPANCY SENSOR. REFERENCE LIGHTING PLAN ON SHEET E4.01.
9. TIE EXHAUST FAN TO LIGHTING CIRCUIT VIA LIGHTING CONTROL SWITCH. REFERENCE LIGHTING PLAN ON SHEET E4.01.
10. RECEPTACLE FOR ACID FEED PUMP.
11. EQUIPMENT CONNECTION TO SOLENOID VALVE.
12. SEE SINGLE LINE DIAGRAM ON SHEET E5.01 FOR POWER SOURCE.

CONSTRUCTION DOCUMENTS

MEP
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CAD DWG FILE: PLOT-E301-104110.DWG

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ELECTRICAL POWER PLAN

MANATEE COUNTY – LINCOLN SPLASH PARK

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REVISIONS:

PROJECT NO: 10-4110
DATE: 08.27.2010
DRAWN BY: MA
CHK'D BY: SRA

Sam Alexander
LIC. NO. 55422

SHEET

E3.01