PERMANENTLY INSTALLED SWIMMING POOLS

PERMANENTLY INSTALLED SWIMMING POOLS ARE THOSE THAT ARE CONSTRUCTED IN THE GROUND OR PARTIALLY IN THE GROUND AND ALL OTHERS CAPABLE OF HOLDING WATER WITH A DEPTH GREATER THAN 42 INCHES

ELECTRICAL WIRING REQUIREMENTS – 2014 NATIONAL ELECTRICAL CODE

1) Pool Pump Receptacle (Outlet) and Wiring Method
   a. If a pump motor receptacle is located between 6'-10' from the inside wall of the pool, the receptacle shall be a **single receptacle**, grounded, and Ground Fault Circuit Interrupter (GFCI) protected.
   b. Receptacle must have an **extra-duty, in-use, weatherproof cover** that can be closed when the cord is plugged in. Pump Cord shall be #12 AWG and shall not exceed 3'-0" long.
   c. The circuit line for the pump motor must be a dedicated line going directly to the panel box, and is to be isolated from all other receptacles/loads.
   d. Conduit: 1. PVC – All PVC conduit* must be buried at least 18’ deep (12’ if GFCI protected).
      2. Metal – All Rigid Metal Conduit* must be at least 6’ deep.
      *Wires used in conduit must be single strand wires (ex: THWN, etc.) - NO NM or UF CABLE in Conduit.
   e. Ground Wire for the pump motor shall not be less than a #12 AWG insulated green copper grounding wire and in conduit. (Exception: When entering a building the wire can change to NM) (Cannot use NM wire in conduit).
   f. Pool pump timers are required.

2) Convenience Receptacle (Outlet) and Wiring Method
   a. At least one (1) 15 or 20 ampere convenience receptacle must be located not closer than 6' but not further than 20’ from the outside pool wall. (Can be existing and/or wired with any Chapter 3 approved wiring method).
   b. Convenience receptacle must be Ground Fault Circuit Interrupter (GFCI) protected, Tamper Resistant (TR), and a Weather Resistant (WR) type receptacle.
   c. Must have an **extra-duty, in-use, weatherproof cover** that can be closed when the cord is plugged in.
   d. Must be separate from the pool pump receptacle wiring.
   e. Wiring: 1. UF cable if buried shall be at least 24" deep (12" if GFCI protected).
      2. PVC – All PVC Conduits* must be buried at least 18" deep (12" if GFCI protected).
      3. Metal- All Rigid Metal Conduits* must be at least 6" deep.
      *Wires used in conduit must be single strand wires (ex: THWN, etc.) - NO NM or UF CABLE in Conduit.

3) Equipotential Bonding of the Pool
   a. All metal parts must be bonded together using a #8 (or larger) **solid bare copper wire**.
   b. Conductive pool shells must be bonded in a minimum of four (4) equal points uniformly spaced around the pool. Must use **non-corrosive clamps/lugs**.
   c. Nonconductive and conductive pool shells must have a #8 (or larger) **solid bare copper wire** 18-24" from the inside pool wall under the perimeter surface 4-6" below the final grade.
   d. A minimum of nine (9) square inches of corrosion resistant metal must be in the water to bond the water.

4) Other
   a. Building and Electrical Permits are required **prior to beginning work**.
   b. Pool alarms are required. (Check with your local Code Enforcement Official for additional information).

PLEASE CONTACT YOUR ELECTRICAL INSPECTOR OR CONTRACTOR IF YOU HAVE ANY QUESTIONS