

VILLAGE OF BARTLETT



PERMANENTLY INSTALLED SWIMMING POOL CHECKLIST - 2017 NEC

1. _____ Complete the pool application. Pool type (above ground/inground), diameter and depth.
2. _____ Provide plat of survey showing pool location with dimensions, setback from property lines and underground/overhead electric lines from pool with dimensions.
3. _____ Provide pool brochure, pump information/manufactured specifications, electrical contractor installing electric and signed contract of pool installer.

The following items will be checked by Electrical Inspector: Contractor/Homeowner will need to provide:

- A. _____ Are there any underground conductors under the pool (Com-ed, AT&T, Comcast or others) 680.11
- B. _____ Are there any overhead electrical conductors in the area extending 10 ft. horizontally from the inside wall of the pool and 22.5' up from water level? 680.9
- C. _____ Is the pump motor needs to be UL listed. Or third party listed to U.S. standards with a label for a pool motor? (UL1081 is the standard)
- D. _____ Is the cord on the pump motor #12 wiring and no longer than 3'? 680.8
- E. _____ Is the circulation system receptacle 6' from the inside pool wall? 680.22(A)(2)
- F. _____ Is the receptacle protected by GFCI? Article 680.5 This must be a GFCI breaker or GFCI face-less type outlet or GFCI outlet, rated for the h.p. at the pump. (GFCI outlets can only do up to 1 ½ h.p. motors.)
- G. _____ Is the cover for the receptacle an in-use cover? 406.9(B)(1)
- H. _____ Is there a GFCI general purpose outlet on a general-purpose circuit 6' from pool wall and not more than 20'? 680.22(A)(1)
- I. _____ Is there a disconnecting switch located at least 6' from the inside wall of the pool? 9-9-7-B
- J. _____ Is the raceway rigid heavy wall metal conduit, or rigid nonmetallic conduit (PVC) and listed for electrical use? 680.21(A)(1) 110.3 (b) (Note: There shall be no plumber's putty (pipe dope) or plumber's Teflon tape (white tape) on the ends of the metal type conduit.) No IMC pipe. (9-9-4N)
- K. _____ Is the raceway buried to the correct depth? RMC 6 inches, and PVC 18 inches from the top of the conduit to grade. 300.5 and Table 300.5
- L. _____ There must be a minimum of a #12 green wire installed in the raceway. 680.21(A)(1) The wire must be green in color. 250.119
- M. _____ The grounding conductor must pick up all junction boxes, light fixtures, pump motors, transformer enclosures, devices like switches, outlets, etc. 680.6
- N. _____ Is there a grounding conductor between panel boards that are not part of the service equipment subpanels and that supply any electric equipment associated with the pool? 680.6(7) The wire shall be sized in accordance with table 250.122 and shall also be insulated and green in color.
- O. _____ The bonding conductor must be a solid #8 copper wire. (Bare conductor is OK). This wire must pick up the pool frame (upper and lower ring if metal) water, pump motor, pool heater (if applicable) RMC piping, and any metallic part within 5' of the pool and perimeter surface within 3' of the pool. 680.26(B)(1)(2)(3)(4)(5)(6) and (7) and (C)

- P. _____ Is the bonding conductor connection completed with a clamp which is of stainless steel, brass, or copper?
(No zinc parts)
- Q. _____ Double insulated pump motors do not have to be bonded with the solid #8 but must have a #12 green wire to them. They shall have a #8 solid bonding wire in the vicinity of the pool pump motor for replacement motors.
- R. _____ If RNC (PVC) is used with RNC PVC boxes, these items must be listed “electrical and sunlight” resistant. Support and expansion fitting may be needed. (Article 352) (No plumbing type pipes.)