



## **RESIDENTIAL SWIMMING POOL CHECKLIST**

Pools are any structure intended for swimming or recreational bathing that contains water more than twenty four (24") inches deep. This includes in-ground, above-ground, and on-ground swimming pools, hot tubs, and spas.

### **PERMIT APPLICATION & SUBMITTAL REQUIREMENTS:**

- Complete and sign general permit application with all pertinent contractor information.
- Complete the electrical application, signed by the supervising electrician, and provide a copy of their electrical license.
- Installing pool contractor needs to obtain a Village Contractors license prior to issuance of permits (No bonds or insurance required.)
- Submit THREE (3) copies of a Plat of Survey for the property indicating:
  - Proposed pool location with dimensions and distance from the property lines.
    - Pools cannot be located in front or side yards nor located in any utility or drainage easement.
  - Location of the pump, pump receptacle, and any other pool accessories and distance from the property lines.
  - Pool and accessories', including pool decks, must be a minimum eight feet (8') away from all property lines and remain outside of any utility easements.
  - Pool heaters shall be five feet (5') from the pool and eight feet (8') from the property line.
- Manufacturers' brochure showing type of pool, size and height.
- Brochure showing specification for all electrical devices (filters, lights, pumps and heaters) and description of electrical source.
- Call J.U.L.I.E. at 811 for utility locates. ComEd utility line must be a minimum five feet (5') away from pool.
- Indicate the location and type of pool barrier being installed. If there is an existing fence, indicate the location, height, and type. (NOTED BELOW)
- Pedestrian Gate Requirements: Swimming pool barriers should be equipped with a gate or gates, which restrict access to the pool. A locking device should be included in the gate design. Gates should open out from the pool and should be self-closing and self-latching. When the release mechanism of the self-latching device is less than fifty-four (54") inches from the bottom of the gate, the release mechanism for the gate should be at least three (3") inches below the top of the gate on the side facing the pool. Placing the release mechanism at this height prevents a young child from reaching over the top of a gate and releasing the latch.
- Clear Zone: There shall be a clear zone of not less than thirty-six inches (36") between the exterior of the barrier and any permanent structures or equipment such as pumps, filters and heaters that can be used to climb the barrier.
- Operable windows having a sill height of less than forty-eight inches (48") above the finished floor and doors shall have an alarm that produces an audible warning when the window, door or their screens are opened. The alarm shall be listed and labeled as a water hazard entrance alarm in accordance with UL 2017. The operable parts of the alarm deactivation switches shall be located fifty-four inches (54") or more above finished floor.  
**Provide cut sheets on proposed door/window alarm if required based on these conditions.**

**Electrical Requirements:**

- The pump/filter must be plugged into a receptacle protected by a ground fault interrupter located not less than six feet (6') from the pool wall. The cord for the pump/filter cannot exceed three feet (3') in length.
- An additional convenience receptacle protected by a ground fault interrupter must be located not less than six feet (6') nor more than twenty feet (20') from the pool wall. An existing receptacle located on the exterior of the house or garage meeting these requirements may be used.
- All metal parts of the pool, pump/filter, and any accessories along with the pool water must be bonded together with #8 solid copper conductors.
- Electrical conductors supplying pool equipment and outlets must be buried in electrical conduit, either rigid metal six inches (6") deep or rigid plastic eighteen inches (18") deep.

**Gas Pipe Requirements:**

- Metallic piping and metallic tubing exposed to corrosive action, such as soil conditions or moisture, shall be protected in an approved manner.
- Underground piping systems shall be installed a minimum of twelve inches (12") below grade.
- A yellow insulated copper tracer wire shall be installed adjacent to underground non-metallic piping and terminate above ground at each end.
- The tracer wire shall not be less than 18 AWG and the insulation type shall be suitable for direct burial.
- The gas meter capacity shall be evaluated to determine if the gas meter must be upgraded due to the added loads on the gas service. Contact Nicor to get meter capacity evaluated
- Provide information on gas line and if it will be pulled from the exterior meter or from an existing internal distribution line.
  - o Provide a gas pipe diagram indicating the size, lengths and total BTU's on the line.

**Must comply with the following Codes:**

- o 2018 International Swimming Pool and Spa Code
- o 2018 International Fuel Gas Code
- o 2017 National Electrical Code

**INSPECTIONS: Contractors must call 847-357-4220 for all inspections 24 hours in advance. Please have your permit number and job address available to schedule an inspection.**

- SWIMMING POOL WALL (BEFORE FILLING WITH WATER.)**
- ELECTRICAL**
- MECHANICAL**
- FINAL**



**2017 NEC® Electrical Requirements for Permanent Above Ground Swimming Pools**

1. UL™ Listed Swimming Pool Pump with a minimum 12AWG cord, not longer than 36" in length terminating in a 15 or 20 amp, 125Volt receptacle outlet for pump ONLY, protected by GFCI, and located not less than 6 feet from inside wall of pool, NEC 680.21(3).
2. UL™ Listed, Wet location "In-Use" Covers for receptacle outlets, NEC 406.9(B).
3. Intermediate/Rigid Metal Conduit (61n) or PVC (18in) burial depths per NEC 300.5.
4. 15 or 20 amp, 125Volt branch circuit with a minimum 12 AWG Green equipment grounding conductor but not smaller than required by Table 250.122, NEC 680.21 (A) (5).
5. 15 or 20 amp, 125Volt GFCI protected (general purpose). Receptacle located between 6 and 20 feet from wall of pool, NEC 680.22(A) (3)
6. Natural Gas water heater (optional), bonded per NEC 680.26.
7. Convertible underwater luminaires optional)-PERMANENTLY installed per mfg. Instructions.
8. 8 AWG SOLID copper equi-potential bonding conductor, connecting all pool equipment, pool structure and all metal surfaces located w/in 5 feet horizontally, NEC 680.26.
9. Bonding connectors for the 8AWG copper shall be identified as "suitable for Direct Burial" solid brass, stainless steel or copper materials only, NEC 680.26(8), 250.8.
10. Minimum 9 square inch water bonding device or equivalent, NEC 680.26(C).
11. Perimeter surface bonding to either (a) structural reinforcing steel or (b) alternate means-8 AWG copper bonding conductor following contour of spa, 18-24ft away and 4-8 inches below grade, NEC 680.26(B)(2)

