



Village of WILLOWBROOK

RESIDENTIAL SWIMMING POOL CHECKLIST

Mayor

Frank A. Trilla

Village Clerk

Deborah Hahn

Village Trustees

Mark L. Astrella

Sue Berglund

Umberto Davi

Michael Mistele

Gayle Neal

Gregory Ruffolo

Village Administrator

Sean Halloran

Chief of Police

Lauren Kaspar



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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:

- 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)
- Call J.U.L.I.E. (# 811) or at 1-800-892-0123 prior to the start of any digging project to verify the location of any underground utilities.

SUBMITTAL REQUIREMENTS

- 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 specifications for all electrical devices (filters, lights, pumps and heaters) and description of electrical source.
- Indicate the location and type of pool barrier being installed. If there is an existing fence, indicate the location, height, and type.

GENERAL POOL REQUIREMENTS

- The swimming pool must be located away from anything electrical (lights, AC equipment, etc.) and overhead electric lines per the 2017 National Electrical Code. The swimming pool must be a minimum distance of five (5'-0") from any buried, underground electrical line.
- The top of the pool barrier shall be at least forty-eight (48") inches above grade measured on the side of the barrier which faces away from the swimming pool.
- Complete a general permit application with all pertinent contractor information.
- 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.



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CLEAR ZONE:

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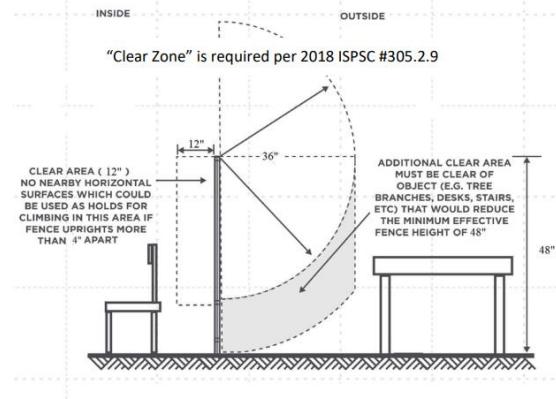
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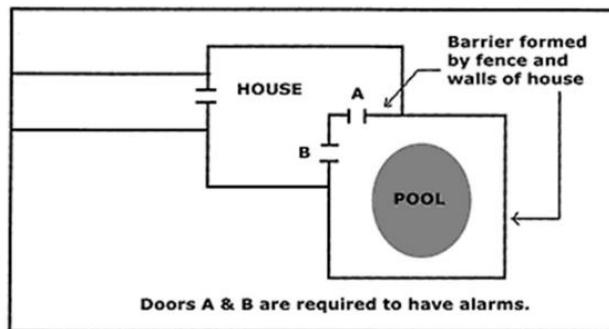


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WHEN THE HOUSE FORMS PART OF THE POOL BARRIER:

- In many homes, doors open directly from the house onto the pool area or onto a patio leading to the pool. In such cases, the side of the house leading to the pool is an important part of the pool barrier. Passage through any door from the house to the pool shall be controlled by security measures.
- 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 the finished floor.
- Provide cut sheets on proposed door/window alarm if required based on these conditions.





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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.
- A minimum of an 8 AWG Solid copper equipment bonding conductor is required, connecting all pool equipment, pool structure and all metal surfaces located within 5' horizontally of the water. NEC 680.6.
 - Conductive pool shells must be bonded a minimum of four (equal) points uniformly spaced around the pool.
 - Non-conductive pool shells must have a #8 (or larger) solid copper wire buried 4" - 6" below finished grade with such bond wire placed from 18" - 24" from the inside pool wall around the pool, which starts and returns/ terminates at the pool pump.
 - Bonding points or attachment must use non-corrosive clamps
- 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.
 - Provide a gas pipe diagram indicating the size, lengths and total BTU's on the line.

MUST COMPLY WITH THE FOLLOWING CODES:

- 2018 International Swimming Pool and Spa Code
- 2018 International Fuel Gas Code.
- 2014 Illinois Plumbing Code
- 2017 National Electrical Code



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REQUIRED INSPECTIONS:

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- SWIMMING POOL WALL – Before filling with water
- UNDERGROUND INSPECTION – Electrical and plumbing if required for any gas line and tracer wire.
- ROUGH ELECTRIC: When the equipment pad has been poured, the electrical box has been attached to the post and wire has been pulled. But before receptacle has been installed.
- FINAL INSPECTION: When all equipment is in place, including pump and heater) and all electric and all necessary bonding/grounding is complete. If a fence is required, fence will need to be installed completely with self-closing/latching gate and if the fence is within 5 feet of the pool it will need to be grounded).

SCHEDULING INSPECTIONS:

Please call Community Development at (630) 920-2240 for final inspection. Please have the permit number and site address ready. In addition, please allow a minimum of 48 hours when scheduling an inspection. Inspections are performed Monday, Wednesday, and Friday 9am to 12pm.



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I hereby certify that I have read and understand all the regulations and requirements, and I agree to comply with all the regulations contained herein.

Signature: _____ Date: _____



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Electrical Requirements for Permanent Above Ground Swimming Pools

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- 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).
- ULTM Listed, Wet location "In-Use" Covers for receptacle outlets, NEC 406.9(B).
- Intermediate/Rigid Metal Conduit (6in) or PVC (18in) burial depths per NEC 300.5.
- 15 or 20 amp, 125Volt branch circuit with a minimum I2 AWG Green equipment grounding conductor but not smaller than required by Table 250.122, NEC 680.21 (A) (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)
- Natural Gas water heater (optional), bonded per NEC 680.26.
- Convertible underwater luminaires optional)-PERMANENTLY installed per mfg. Instructions.
- 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.
- 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.
- Minimum 9 square inch water bonding device or equivalent, NEC 680.26(C).
- Perimeter surface bonding to either (a)structural reinforcing steel or (b) alternate means-8 AWG copper bonding conductor following con-tour of spa, 18-24ft away and 4-8 inches below grade, NEC 680.26(B)(2) below grade, NEC 680.26(B)(2)

