

ALLEN TOWNSHIP ZONING & CODE ENFORCEMENT OFFICE



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ALLEN TOWNSHIP ZONING ORDINANCE SWIMMING POOLS

1. Swimming pools shall be located to the side of or in the rear of the primary structure of the lot. No swimming pools are permitted closer to a street right-of-way than the front of the primary structure.
2. Pools shall be setback at least 10 feet from any lot line or electric line. This setback shall also apply in the case of attached structures (such as duplexes and townhouses).
3. In-ground swimming pools must be located entirely within a chain link or wooden fence (or equivalent) with a minimum height of 48 inches. A locking gate must be provided for the fence.
4. Above-ground swimming pools having an exposed sidewall of less than 48 inches must also be enclosed in a fence to a minimum height of 48 inches from the ground. The fence may be attached to the pool sidewalls.
5. Any above-ground swimming pool must have a retractable locking ladder and/or locking gate to the steps of a side deck.
6. Fencing must be installed prior to filling the pool with water.
7. If BOCA or the property owner's insurances would demand stricter standards, the property owner must follow the stricter standards.

INSPECTIONS ARE NECESSARY
Please see Township list of authorized inspectors.

ELECTRICAL REQUIREMENTS

ABOVE GROUND SWIMMING POOLS

This list is only a summary of the code.

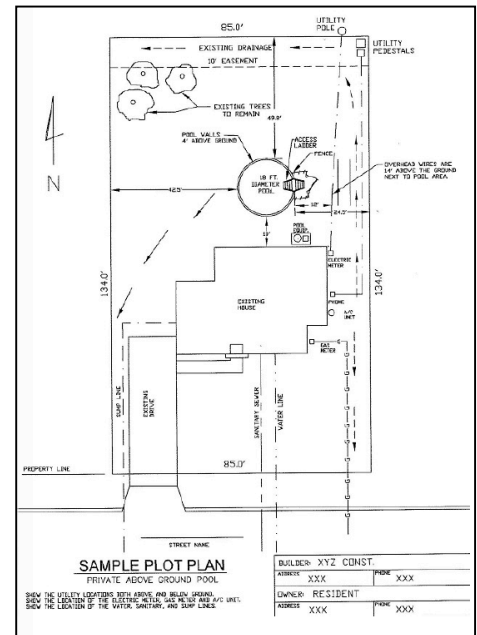
1. A Convenience receptacle is required 10' to 20' from the pool GFCI protected with an in use cover.
2. Pool pump receptacle needs to be 20 amp twist lock GFCI protected with an in use cover (5' away from pool) (or greater) 3' max length cord.
3. Conduit for the pool pump shall be minimum cover of 12" when the circuit is GFCI protected before the conduit enters the ground. If not 18" of cover (20" trench)
4. Pool pump receptacle shall be mounted on a post usually 4'x4' pressure treated.
5. Pool pump receptacle feed wires shall be individual conductors in conduit PVC or metal. Black, white, green #12 THHN/THWN.
6. Pool motor needs to be bonded to pool with a #8 solid copper wire.
7. If the ladder is metal it must also be bonded to the pool.
8. All metal within 5' of inside wall of pool shall be bonded to the pool with #8 solid copper.
9. Bonding connectors shall be stainless steel, brass, copper or copper alloy.
10. The pool pump must be listed and labeled for swimming pool use.
11. Existing overhead wires shall be a minimum of 10 feet away, and any underground wires shall be 5 feet away. (All measurements are made at level line)

*GFCI = GROUND FAULT CIRCUIT INTERRUPTER

Residential Pools – Above Ground

The following guide is based upon requirements set forth in the Pennsylvania Uniform Construction Code (PAUCC). The information is adapted from the PA UCC, the International Residential Code (2015), and the International Swimming Pool and Spa Code (2015). This guide is intended to provide pertinent and helpful excerpts from the noted sources. **As this is a guide only, contact the authority having jurisdiction for additional requirements or modifications to the following information.**

1. The following shall be submitted with the permit application:
 - a. A site/plot plan drawn to a suitable scale shall showing locations of all existing features, property lines, easements, permanent structures, utilities, right of ways, and the location of the proposed pool and any structures (fences, patios, pump/filter equipment pad, etc.).
 - b. Supplemental information/brochures including specifications on the pool type, installation instructions, pump, filter equipment, lights, alarms, heaters, and all electrical requirements.
2. All equipment, pipe, fittings, and components shall be listed and labeled for their use.
3. All pool equipment and related piping shall be installed, mounted, and supported in accordance with the manufacturers installation instructions.
4. All pool heaters shall be equipped with a readily accessible on-off switch to allow shutting off the heater without adjusting the thermostat setting. Pool heaters fired by natural gas or LPG shall not have continuously burning pilot lights.



ELECTRICAL REQUIREMENTS

1. Receptacle for pump
 - a. 20-amp GFCI protected, single twist lock, in weatherproof device box with in-use cover. Locate 6'-10' from inside wall of pool. May not be shared with any other device.
 - b. Flexible cord permitted for fixed/stationary equipment. Cord shall not exceed 3-feet in length.
 - c. Disconnecting means shall be readily accessible and within site of the equipment served. Locate 5' from inside wall of the pool.
 - d. All receptacles, panels, or junction boxes shall be mounted on a structural wall, post (typically a pressure treated 4x4 post buried 24" deep), or equal.
 - e. A time switch shall be provided to automatically turn off and on heaters and pump motors.
2. General purpose receptacle
 - a. 125-volt, 15- or 20-amp GFCI protected in weatherproof device box with in-use cover (may not be on pump circuit). Locate 6'-20' from inside wall of pool.
 - b. Receptacle shall be mounted on a structural wall, post (typically a pressure treated 4x4 post buried 24" deep), or equal.
3. Wiring:
 - a. All wiring to the receptacles shall be buried underground and shall extend 5-feet horizontally from the inside wall of the pool. The minimum burial depth, measured to the top of the conduit, shall be as follows: 6" for rigid metal conduit, 6" for intermediate metal conduit, and 18" for nonmetallic conduit (PVC).
 - b. All conductors must be in conduit that is corrosion resistant and suitable for the location.
 - c. Conductors inside of conduits shall be insulated #12 AWG for 20 amp (120V) and rated for wet locations.
4. Bonding
 - a. All metallic parts of the pool shall be joined to form an electrically conductive path that will ensure electrical continuity to safely guard against any electrical current that may likely be imposed.
 - b. Use #8 AWG solid, covered or bare copper wire, or larger located 18"-24" from the inside walls of the pool and buried 4"-6" below grade.

- c. Install from the wire lug on the motor and all metal parts relating to the pool circulation system, to four equally spaced pool uprights and to any other metal within 5-feet of the inside wall of the pool. Connections shall be made by exothermic welding, listed pressure connectors, or clamps that are labeled as being suitable for the purpose.
 - d. The pool water shall be bonded with a minimum conductive surface area of 9 square inches. Bond to #8 AWG solid copper bonding system.
5. Grounding
- a. The following equipment shall be grounded: all electrical equipment located within 5-feet of the inside wall of the pool, all electrical equipment associated with the recirculating system, junction boxes, transformer and power supply enclosures, GFCI receptacles, and panel boards that are not part of the service equipment and that supply any electrical equipment associated with the pool.
 - b. Minimum #12 AWG insulated solid copper wire.
6. Switching devices shall be located no less than 5-feet horizontally from the inside walls of the pool, except where separated from the pool by a solid fence, wall or other permanent barrier.
7. One or more means to simultaneously disconnect all ungrounded conductors shall be provided for all equipment other than lighting. Each means shall be readily accessible and within sight from the pool equipment and shall be located no less than 5-feet from the inside walls of the pool.

CIRCULATION SYSTEM REQUIREMENTS

1. The circulation system consisting of pumps, hoses, tubing, piping, return inlets, suction outlets, filters, and other related equipment shall be located so that such items may not be used as a means of access to the pool.
2. The circulation system equipment shall be sized to provide a turnover of the pool water not less than once every 12 hours.
3. Return fittings shall be provided and arranged to facilitate a uniform circulation of water.
4. A cleanable strainer shall be installed on pressure-type filter systems between the pool and the pump.

LADDER AND STAIR REQUIREMENTS

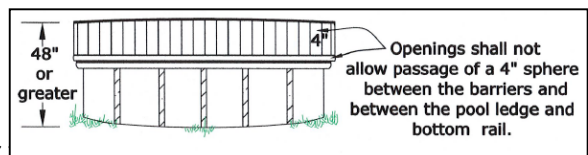
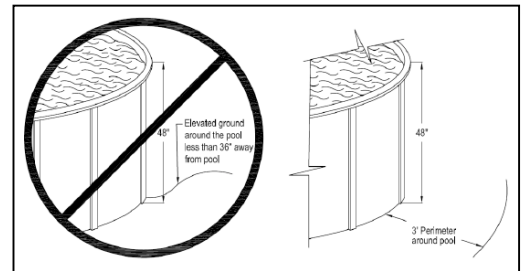
1. Ladders/stairs in the pool shall have a physical barrier to prevent swimming through the riser openings or behind the ladder/stairs.
2. Platforms on A-frame ladders shall have a minimum width and length of 12-inches. The platform shall be at or above the highest ladder tread. Treads shall have a minimum depth of 2-inches and riser heights shall not less than 7-inches and no greater than 12-inches. All walking surfaces shall be slip resistant.
3. Stair treads shall have a minimum depth of 10-inches and a minimum unobstructed surface area of 240 square inches. Risers shall have a uniform height of not less than 7-inches and no greater than 12-inches.

BARRIER REQUIREMENTS

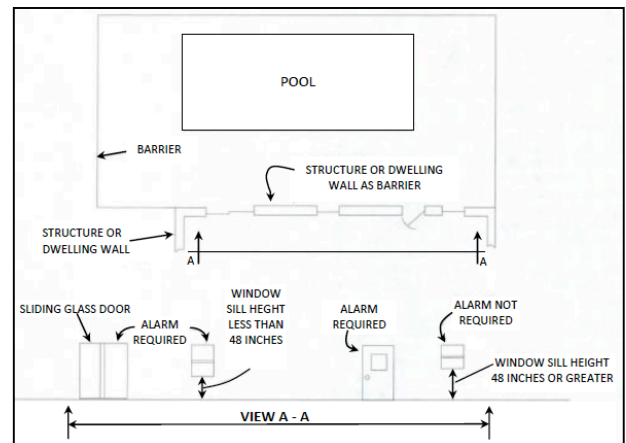
A permanent barrier shall be provided that completely surrounds the pool and obstructs the access to the pool. Barriers shall be located to prohibit permanent structures, equipment, or similar objects from being used for climbing. The top of the barrier shall be 48-inches minimum above finish grade (measured on the outside of the pool). The minimum height shall extend around the entire length of the pool and for a distance of 3-feet (measured horizontally from the outside of the barrier). The barrier shall consist of one or a combination of the following.

1. Pool wall structure or a barrier mounted on top of the pool wall structure:
 - a. The bottom of the wall is on grade and the top of the wall is not less than 48-inches above grade for the entire perimeter of the pool and the pool manufacturer allows the wall to serve as the barrier.
 - b. Where the barrier is mounted on top of the pool wall structure, the top of the barrier is not less than 48-inches above grade for entire perimeter of the pool and the clearance between the top of the pool and the bottom of the barrier is less than 4-inches. The barrier shall be mounted in accordance with the pool manufacturer's instructions.

2. Ladders or stairs used as a means to access the pool are capable of being secured, locked, or removed to prevent access. Openings created by the securing of the ladders or steps shall not allow passage of a 4-inch sphere.



5. Where the wall of the dwelling acts as part of the barrier, operable windows with a sill height of less than 48" above the indoor finish floor and doors shall be equipped with a listed and labeled alarm. The alarm shall activate within 7 seconds and sound continuously for a minimum of 30 seconds immediately after the door and/or its screen is opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm shall be equipped with a manual means to temporarily deactivate the alarm for a single opening. Such deactivation shall last no more than 15 seconds. The deactivation switch shall be located at least 54" above the threshold of the door. The alarm is an audible warning when the door is opened. The following requirements shall be followed: listed and labeled in accordance with UL 2017, the deactivation switch shall be located at least 54" above the threshold of the door.



GATE REQUIREMENTS

1. Pedestrian access gates shall open outward away from the pool and be self-closing and self-latching.
2. Gates shall be self-closing and self-latching.
3. Gates shall be equipped to accommodate a locking device.
4. Gates not intended for pedestrian use shall remain locked when not in use. Double or multiple gates shall have at least one leaf secured in place and the adjacent leaf shall be secured with a self-latching device.
5. The release mechanism for gates shall be located 54" above grade or a minimum of 3-inches below the top of the gate and shall be located on the pool side of the gate. The gate and barrier shall have no openings greater than ½-inch within 18" of the release mechanism.

