Township of Upper Moreland

117 Park Avenue
WILLOW GROVE, MONTGOMERY COUNTY, PENNSYLVANIA 19090
Telephone (215) 659-3100 Ext. 1032/1033 / Fax (215) 659-8899

Paul E. Purtell
Director of Code Enforcement

Requirements for obtaining a Permit for Swimming Pools

1. Complete a Building & Electrical Permit Application.
2. ***In Ground Pools also require a Grading Permit & a Topographic Plan prepared by a professional engineer and/or land surveyor.
3. Sketch a plot plan; see attached sample
4. **Electrical plan; see sample, requires underwriter review
5. Pool Specifications
6. Specify pool barrier. (if installing a fence, a separate building permit is required) Door alarm may be required.
7. Contractors require to provide a current state license & insurance certificate.
8. **Payment; see attached Fee Schedule & below

***Additional Fees:*

- *Electrical Underwriter plan review fee due at time of permit issuance.*

- *Twp Consultant fee for Grading Plan review for **In Ground Pools** only. Applicant responsible for reimbursement to Twp.*

***In Ground** Swimming Pools require a Grading Permit Application along with a Topographic Site Plan signed and sealed. See above.*

Our website at www.uppermoreland.org is available to download applications and to review our Codes Online.

If you have any questions our staff would be glad to help you through your application process. Please do not hesitate to call or e-mail us.

Code Enforcement Staff

Upper Moreland Township
117 Park Avenue
Willow Grove, PA 19090
215-659-3100
215-659-8899 (fax)
www.uppermoreland.org

Upper Moreland Township Fee Schedule

Note: $4.00 UCC surcharge required for all Building, Plumbing, Electrical, HVAC and Fire permits

I. NEW BUILDING

Residential	Apartment / Multiple Dwelling	Commercial / Industrial / Institutional
$300 per 1500 ft^2 + $100 for each additional 500 ft^2 or fraction thereof. Includes basements and garages.	$200 per unit	$400 per 1000 ft^2 + $250 for each additional 1000 ft^2 or fraction thereof.
Certificate of Occupancy: $50 Plan review: $25 Driveway: $25	Certificate of Occupancy: $125 Plan review: $100 Parking lot: $50	Certificate of Occupancy: $125 Plan review: $100 Parking lot: $50

II. BUILDING: ADDITIONS & ALTERATIONS

Additions, decks, repairs, roofing, siding, demolition, etc: $25 for the first $500 of cost + $25 for the next $500 of cost plus $15 for each additional $1000 of cost or fraction thereof.	Residential Certificate of Occupancy: $25 Non-Residential Certificate of Occupancy : $75

III. HVAC & FIRE PROTECTION

Heating: $75 for the first $2000 of cost + $20 for each additional $1000 of cost or fraction thereof.	**Heat pump:** $20 **Gas or oil burner (replacement):** $15
A/C $20 for the first $1000 of cost + $5 for each additional $1000 of cost or fraction thereof. (Max fee $1500) **Exhaust Hood Systems:** $75 for the first $2000 of cost + $20 for each additional $1000 of cost or fraction thereof.	**All fire permits: Sprinkler, Fire Alarm, Wet & Dry Chemical:** $75 for the first $2000 of cost + $20 for each additional $1000 of cost or fraction thereof + review fee.

IV. PLUMBING

Fixtures	**Fixtures in new construction:** $50 for the first five fixtures; $8 for each additional fixture
	New fixtures on existing drain line: $20 for the first fixture; $10 for each additional fixture
	Replacement fixtures: $20 for the first fixture; $10 for each additional fixture

		New Construction	Water Service	Alterations
Water Distribution System	Residential	$25	$25	$20
	Commercial	$35	$35	$25

Miscellaneous	New sewer connection: $100	Water heater: $25
	Sewer repair / replacement: $75	Garbage disposal: $25 / $15 if replacement

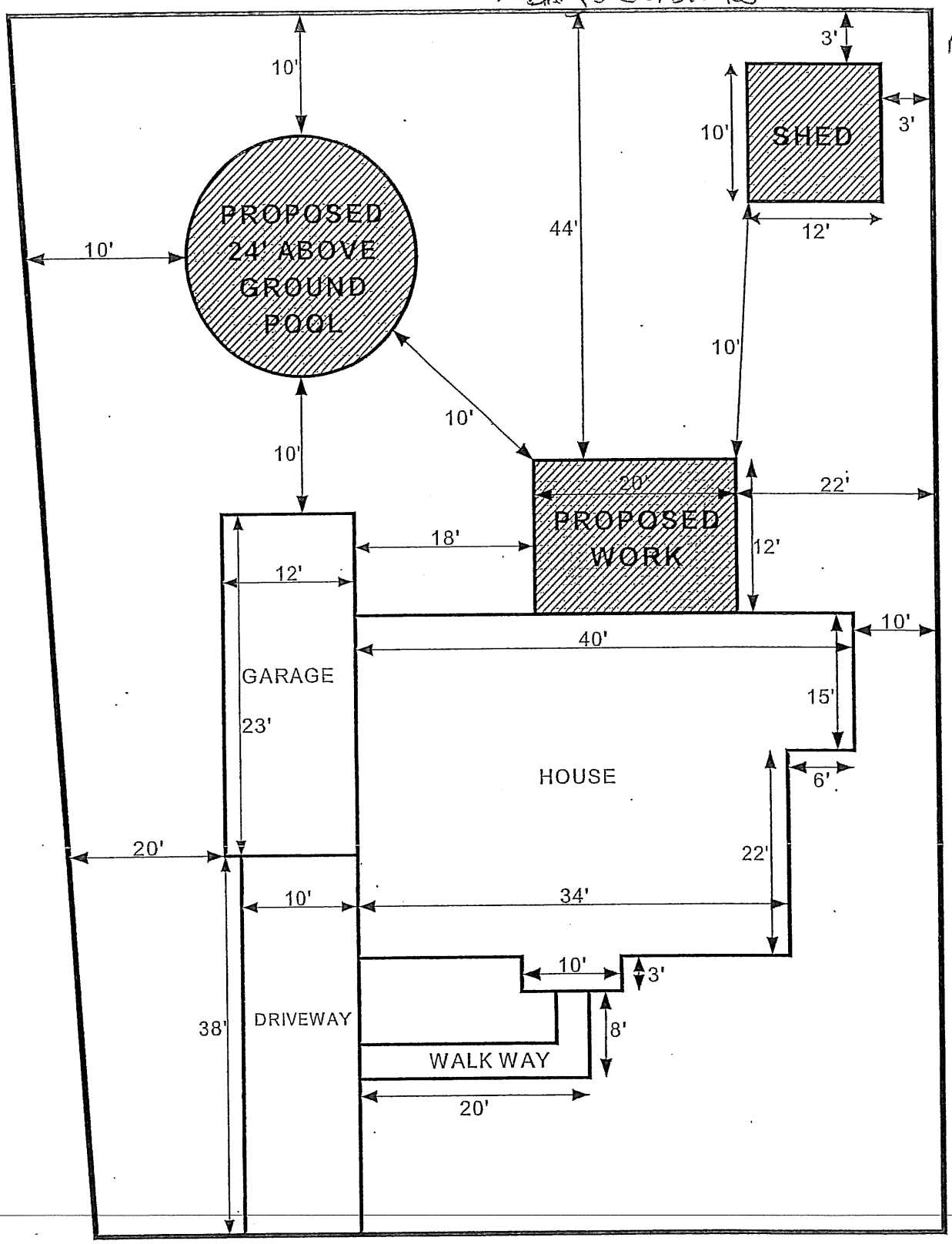
V. ELECTRICAL

$25 per $1000 of cost or fraction thereof

ALSO SEE

FEE SCHEDULE

Sample Plot Plan: ** Only Setbacks of Pool Required
→ Bldg. Setbacks & measurements not required.



123 Sample Street

PLOT PLAN SAMPLE

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CODE ENFORCEMENT

Electrical Requirements for Above-ground Swimming Pools

1. GFCI (ground fault circuit interrupter) protected receptacle required between 6 and 20 feet from the pool.

2. Pool pump receptacle must be twist lock, GFCI protected with an in-use cover located minimum 6 feet from pool.

3. Conduit for pool pump shall be minimum 18" cover.

4. Pool pump receptacle shall be mounted on a post usually 4" x 4" pressure treated

5. Pool pump motor needs to be bonded to pool with a #8 solid copper wire

6. Pool pump receptacle feed wires shall be individual conductors in PVC or metal (rigid or intermediate). All wiring methods must have an insulated copper ground conductor not smaller than #12. **UF cable not allowed.**

7. All metal within 5 feet of inside wall of pool shall be bonded to the pool with #8 solid copper

8. Bonding connectors shall be stainless steel, brass, copper or copper alloy.

9. The pool pump motor shall be listed and labeled for swimming pool use.

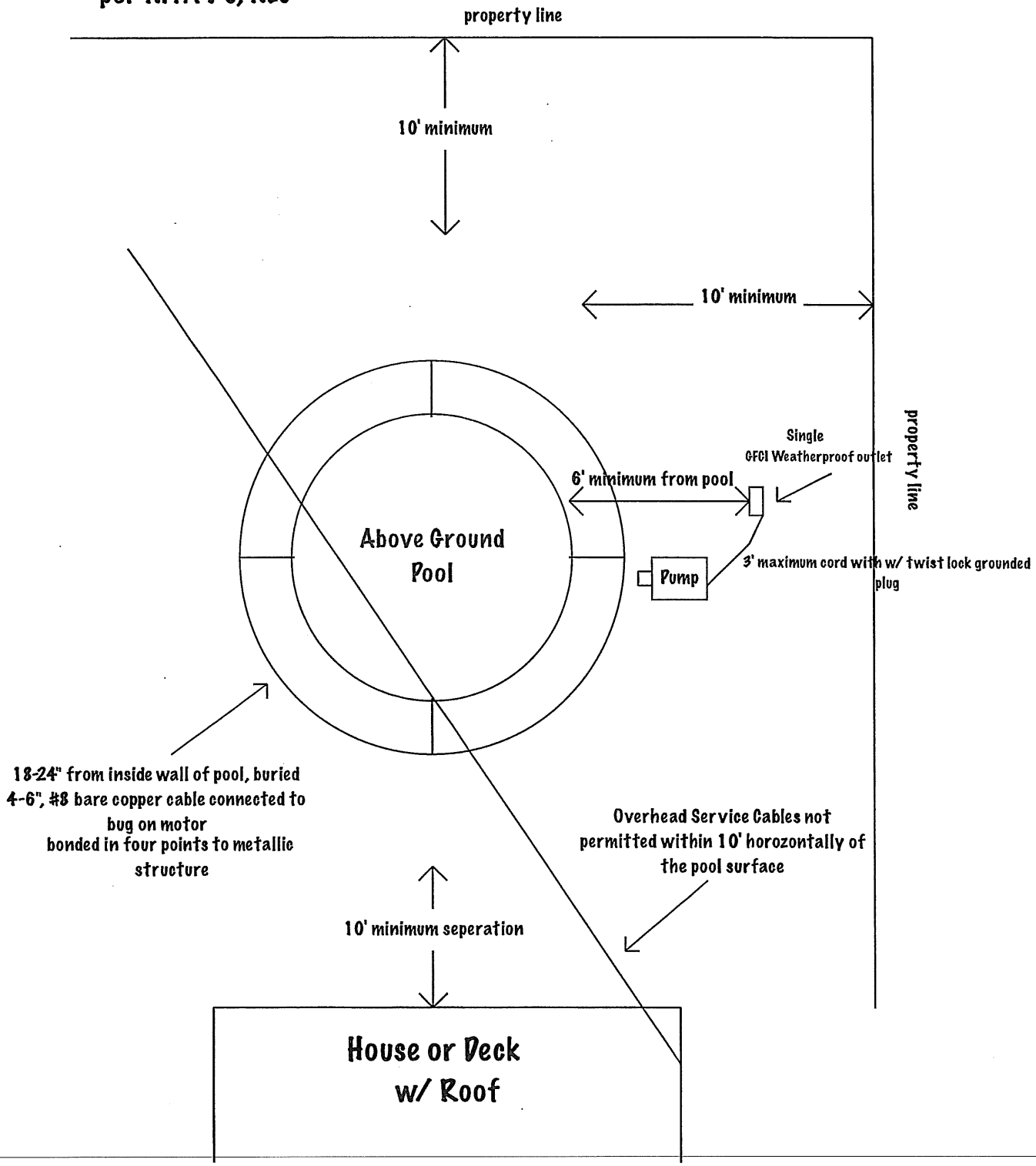
10. If the pool ladder is metal, it must be bonded to the pool

11. A minimum 9 square inch conductive plate shall be installed in contact with the water. The plate must be included in the bonding network. This plate can be satisfied with a metallic fill pipe or a metal filter basket.

12. The perimeter area surrounding the pool, including at a minimum the lawn, must be bonded to the bonding grid. This can be accomplished by burying a #8 bare copper conductor 4 inches into the soil and tied to the pool pump external binding post. For nonconductive pool shells (fiberglass an example) bonding at four points shall not be required. See Article 680.26 for specifics.

Special Note: The above statements are illustrative of Code requirements only. Strict adherence to all Article 680 requirements is mandatory.

Recommended Minimum Aboveground Pool Electrical Requirements per NFPA 70, NEC



ELECTRICAL PLAN SAMPLE

Township of Upper Moreland, PA
Montgomery County

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New Laws
Index

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Chapter 304: SWIMMING POOLS

[HISTORY: Adopted by the Board of Commissioners of Upper Moreland Township as Title 3, Ch. 4, of the 1977 Code.[1] Amendments noted where applicable.]

GENERAL REFERENCES
Code enforcement—See Ch. **108**.
Construction codes—See Ch. **115**.
Zoning—See Ch. **350**.

[1]: *Editor's Note: This chapter was adopted 7-8-1958 by Ord. No. 368 and amended 7-13-1965 by Ord. No. 548; 5-10-1966 by Ord. No. 594; 10-13-1970 by Ord. No. 696; 6-4-1984 by Ord. No. 804; 9-6-1988 by Ord. No. 1165; 10-3-1988 by Ord. No. 1166; 7-9-1990 by Ord. No. 1215; and 8-4-2003 by Ord. No. 1472.*

Chapter 304: SWIMMING POOLS
§ 304-1 Definitions.
§ 304-2 Permit required to construct swimming pool.
§ 304-3 Permits.
§ 304-4 Fences.
§ 304-5 Gates.
§ 304-6 Pools less than 18 inches deep.
§ 304-7 Violations and penalties.

§ 304-1 Definitions.

The terms in this chapter shall be defined as follows:

ABOVEGROUND POOLS
Any temporary or permanent outdoor swimming pool containing water two feet or more in depth.

FENCE

A. A barrier, but not the side or sides of a pool, not less than four feet in height, which shall be so constructed as not to have openings, holes or gaps larger than four inches in any dimension except for doors and gates, and which shall be constructed out of any of the following materials:

(1) Masonry or brick.

(2) Wire mesh, a minimum of nine gauge with posts not more than 10 feet apart.

(3) Pickets, not less than three-fourths-inch thick if wood or 20 gauge if metal, with posts not more than 10 feet apart.

B. The fence shall constitute an enclosure either surrounding the property or pool area, adequate to make the pool inaccessible to small children.

OWNER

Any person in possession of land within the Township of Upper Moreland, either as owner, purchaser, lessee, tenant or licensee.

POOL

Any permanent outdoor swimming pool; any excavation in which water is permitted to or may otherwise collect in excess of two feet in depth; any temporary structure designed to hold water whether erected partially or entirely above ground level, in which water is permitted to or may otherwise collect in excess of two feet in depth.

§ 304-2 Permit required to construct swimming pool.

It shall be unlawful for any person or persons to construct within the Township of Upper Moreland a swimming pool without first obtaining from the Building Inspector of the Township a permit.

§ 304-3 Permits.

A. The owner of property upon which is situate a pool shall apply for and obtain from the Building Inspector a permit and with such application shall submit plans of any fence erected as required by §**304-4** and a description or design of any gate and latching or closing device for use in conjunction therewith.

B. The Building Inspector shall issue such permit if the plans or description of the applicant's fence meet the requirements of this chapter and upon payment to him of a permit fee in accordance with a fee schedule adopted by the Board of Commissioners and set forth in Chapter **140**, Fees, Rates, and Permits, of the Upper Moreland Code.

C. A pool, as defined herein, is a structure, the construction or installation of which must be made in accordance with the Building Code and the Zoning Ordinance of Upper Moreland Township.[1]

[1]: *Editor's Note: See Ch. 115, Art. I, Uniform Construction Code, and Ch. 350, Zoning, respectively.*

§ 304-4 Fences.

A. Any owner upon whose land is situate a pool, as defined hereinabove, shall enclose such pool with a fence and/or wall or walls of a dwelling house or accessory building. Such owners shall comply with this section within 60 days from the enactment of this chapter. Owners of pools enclosed by existing fences approved by the Building Inspector as to adequacy shall be exempt from this section.

B. Any owner of an aboveground pool which is four feet or more in height above the level of the ground on all sides and which has smooth or unclimbable sides need not be entirely enclosed by a fence, provided that the ladder, deck or other entrance to the pool is enclosed by a four-foot fence with a self-closing and self-latching gate, as provided for in §**304-5** hereof.

§ 304-5 Gates.

All gates or doors opening through any fence required to be erected under this chapter shall be equipped with a self-closing and self-latching device for keeping the gate or door securely closed at all times when not in actual use, except that the door of any dwelling which forms a part of the enclosure need not be so equipped.

§ 304-6 Pools less than 18 inches deep.

As to swimming pools with a depth of 18 inches of water or less, the same shall be emptied or covered at all times when not in use.

§ 304-7 Violations and penalties.

Any person who shall violate any of the provisions of this chapter shall, for each offense, be subject to a penalty of not less than $100 nor more than $1,000, to be recovered as penalties are now by law recoverable, and upon failure of such person or persons to pay said penalty with costs within 10 days of the date of the imposition thereof, such person or persons shall be subject to imprisonment in the County Prison for a period not exceeding 10 days.

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APPENDIXG

SWIMMING POOLS, SPAS AND HOT TUBS

(The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.)

SECTION AG101
GENERAL

AG101.1 General. The provisions of this appendix shall control the design and construction of swimming pools, spas and hot tubs installed in or on the *lot* of a one- or two-family dwelling.

AG101.2 Pools in flood hazard areas. Pools that are located in flood hazard areas established by Table R30I.2 (1), including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, shall comply with Sections AG101.2.1 or AG101.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

AG101.2.1 Pools located in designated floodways. Where pools are located in designated floodways, documentation shall be submitted to the *building official,* which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the *jurisdiction.*

AG101.2.2 Pools located where floodways have not been designated. Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the *jurisdiction.*

SECTION AG102
DEFINITIONS

AG102.1 General. For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool."

BARRIER. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See "Swimming pool."

IN-GROUND POOL. See "Swimming pool."

RESIDENTIAL. That which is situated on the premises of a detached one- or two-family dwelling or a one-family *townhouse* not more than three stories in height.

SPA, NONPORTABLE. See "Swimming pool."

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating *equipmentare* an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water over 24 inches (610 mm) deep. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

SWIMMING POOL, INDOOR. A swimming pool which is totally contained within a structure and surrounded on all four sides by the walls of the enclosing structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

SECTION AG103
SWIMMING POOLS

AG103.1 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG108.

AG103.2 Above-ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-4 as listed in Section AG108.

AG103.3 Pools in flood hazard areas. In flood hazard areas established by Table R301.2(I), pools in coastal high hazard areas shall be designed and constructed in conformance with ASCE 24. I

SECTION AG104
SPAS AND HOT TUBS

AG104.1 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Section AGI08.

AG104.2 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-6 as listed in Section AG108.

SECTION AG105
BARRIER REQUIREMENTS

AG105.1 Application. The provisions of this chapter shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

AG105.2 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be surrounded by a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches (1219 mm) above *grade* measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of

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the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above-ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).

2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed $1^3/_4$ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1^3/_4$ inches (44 mm) in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1^3/_4$ inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a $2^1/_4$-inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than $1^3/_4$ inches (44 mm).
7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than $1^3/_4$ inches (44 mm).
8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:

    8.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate; and

    8.2. The gate and barrier shall have no opening larger than $1/_2$ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

9. Where a wall of a *dwelling* serves as part of the barrier, one of the following conditions shall be met:

    9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346; or

    9.2. Doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and *labeled* in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or

    9.3. Other means of protection, such as self-closing doors with self-latching devices, which are *approvedby* the governing body, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described above.

10. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps:

    10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access; or

    10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, Items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

AG105.3 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited locations. Barriers shall be located to prohibit permanent structures, *equipment* or similar objects from being used to climb them.

AG105.5 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

SECTION AG106
ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

AG106.1 General. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.

SECTION AG107
ABBREVIATIONS

AGI07.1 General.

ANSI-American National Standards Institute
11 West 42nd Street
New York, NY 10036

APSP-Association of Pool and Spa Professionals
NSPI-National Spa and Pool Institute
2111 Eisenhower Avenue
Alexandria, VA 22314

ASCE-American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, VA 98411-0700

ASTM-ASTM International
100 Barr Harbor Drive,
West Conshohocken, PA 19428

UL-Underwriters Laboratories, Inc.
333 Pfingsten Road
Northbrook, IL 60062-2096

SECTION AG108
STANDARDS

AGI08.1 General.

ANSI/NSPI

ANSI/NSPI-3-99 Standard for Permanently Installed Residential Spas	AG104.1
ANSI/NSPI-4-99 Standard for Above-groundl On-ground Residential Swimming Pools	AG103.2
ANSI/NSPI-5-2003 Standard for Residential In-ground Swimming Pools	AG103.1
ANSI/NSPI-6-99 Standard for Residential Portable Spas	AG104.2

ANSI/APSP

ANSI/APSP-7-06 Standard for Suction Entrapment avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs and Catch Basins	AG106.1

ASCE

ASCE/SEI-24-05 Flood Resistant Design and Construction	AG103.3

ASTM

ASTM F 1346-91 (2003) Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs	AG105.2,AG105.5

UL

UL 2017-2000 Standard for General-purpose Signaling Devices and Systems-with Revisions through June 2004	AG105.2

Swimming Pool Guidelines

Pennsylvania Department of
Environmental Resources
Southeast Regional Office

The discharge of any sewage or industrial waste, including swimming pool water, to a water of the Commonwealth without a permit is a violation of the Clean Streams Law, the Act of June 22, 1937, P.L. 1987, as amended.

It has been the Department's policy not to require permits for discharges from single residence pools provided the guidelines outlined below are followed. Local municipalities should be contacted concerning local ordinances.

These guidelines shall not be construed so as to waive or impair any rights of the Department of Environmental Resources to prosecute the property (pool) owner and/or pool company for any stream damage that occurs as a result of the discharge. Penalties would be assessed under the provisions of the Clean Streams Law.

Pool Guidelines:

A. Disposal of Water to Sanitary Sewer

1. If the municipal authority grants permission, discharging of pool backwash water, neutralized pool cleaning wastewater and standing water to the sanitary sewer system is the best environmental alternative. Care should be taken in making sure the discharge is to a sanitary sewer and not a storm sewer which would discharge to a stream. If sanitary sewers are not in the immediate area, the wastewater should be hauled off-site for disposal at an approved treatment facility.

B. Discharge of Water

1. The following guidelines must be followed if water is not pumped or hauled to a sanitary sewer. Water should be pumped over a grassy area to allow absorption, filtration and aeration of water. The discharge should be a rate which prevents erosion and optimizes infiltration. In no event shall pool waters be directly discharged to the waters of the Commonwealth.

a. Standing water or accumulated rain and/or pool water from the previous season should be pumped from the top so as not to disturb settled solids. Solids on the pool bottom should not be discharged. Following pump down of water, solids should be cleaned out manually. The discharge should not raise instream temperatures by more than 2°F in a one hour period or a total of 5°F, pH should be between 6 and 9 standard units and total chlorine residual should be 0.0 mg/l.

b. Cleaning wastewater containing muriatic acid or chlorine that is used in cleaning pool surfaces needs to be treated prior to discharge. Muriatic acid wastewater should be neutralized to a pH between 6 and 9 standard units. Chlorine rinses should stand for a period of days to allow chlorine degredation prior to discharge. Total chlorine residual of the wastewater discharge should be less than 0.5 mg/l. Temperature should be monitored as above (standing water). Chlorine rinse water pH should be between 6 and 9 standard units.

(over)

c. Filter backwash water during normal pool operation must be at a sufficiently low volume that all water infiltrates to the ground. Backwash water discharged to a stream or storm sewer is not permitted.

Questions concerning pool guidelines should be directed to Pennsylvania DER, Southeast Region Office, Bureau of Water Quality Management, Telephone: 215 832-6130.

Re 30 (1)144.1