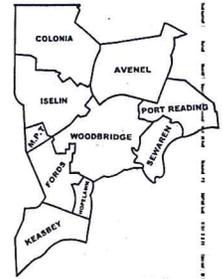




Township of Woodbridge

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Woodbridge - Ten Towns, One Community

REQUIREMENTS FOR IN-GROUND POOLS

- **Please Read Instructions Carefully Prior To Installation-**
 1. COPY OF CONTRACT WITH BUILDER'S LICENSE NUMBER
 2. A SURVEY AND/OR SOIL DISTURBANCE PERMIT ARE REQUIRED
 3. ARCHITECT'S OR PROFESSIONAL ENGINEER'S PLANS (GENERALLY OBTAINED FROM THE POOL COMPANY)
 4. TOPOGRAPHICAL SURVEY AND TOWNSHIP ENGINEER APPROVAL FOR GRADING
 5. ELECTRICAL PLANS (WIRING DIAGRAM, GROUNDING, WIRE SIZE, ATTACHMENT TO PANEL IN HOUSE, ETC.)
 6. BROCHURE ON FILTERING SYSTEM- See Page 3
 7. MUST CONFORM TO ZONING AS TO USE AND SETBACKS-See Page 4
 8. ZONING PERMIT REQUIRED
 9. PERMITS REQUIRED-ELECTRICAL-BUILDING-PLUMBING
 - PLUMBING PERMIT FOR: (BACKFLOW PREVENTER)-INSTALL WATTS "OR EQUAL" SERIES 8A HOSE VACUUM BREAKER DIRECTLY ON HOSE BIBB (OUTSIDE WATER FAUCET)
 - PLUMBING PERMIT IS REQUIRED FOR RESIDENTIAL INGROUND POOLS IF INSTALLING A DRAIN, MDX OR SDX. (ALWAYS REQUIRED FOR NON-RESIDENTIAL INGROUND POOLS)
 10. FENCE REQUIREMENTS:
2009 IRC Section AG 105/ AG 105.1 – AG 105.5
ENCLOSURES FOR PRIVATE SWIMMING POOLS, SPAS AND HOT TUBS: PRIVATE SWIMMING POOLS, SPAS, AND HOT TUBS SHALL BE ENCLOSED IN ACCORDANCE WITH SECTIONS AG 105.1 THROUGH 105.5.
**SEE ATTACHED -Any Questions- Call 634-4500 ext. 6434 or 6428 (Page 5 & 6)
- **TO APPLY FOR POOL PERMITS- COMPLETE APPLICATIONS-CALL FOR AN APPOINTMENT WITH THE ZONING OFFICER. 634-4500 ext. 2815.**

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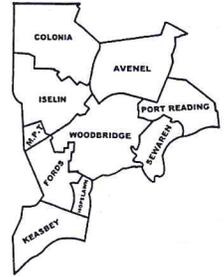
Page 2 of 9



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REQUIREMENTS FOR POOL FILTRATION CERTIFICATION

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PLEASE SUPPLY THE FOLLOWING INFORMATION:

1. Total capacity of pool in gallons _____
2. The filter turnover rate. The filter must be sized to allow for a complete turnover of the water within an eight (8) hour period. This can usually be found in specification sheet provided by the manufacturer. _____
3. How and where pool is being backwashed:
curb _____ catch basin _____

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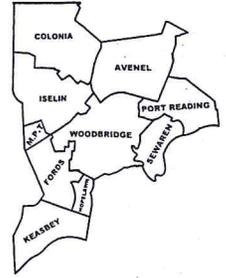
Page 3 of 9



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ZONING SETBACKS-

(FROM EDGE OF POOL)

ABOVE GROUND AND INGROUND POOLS

<u>ZONE</u>	<u>SETBACKS</u>
R-5	6' REAR 6' SIDE
R-6	6' REAR 6' SIDE
R-7.5	6' REAR 6' SIDE
R-10	6' REAR 6' SIDE
R-40	6' REAR 6' SIDE

*NOTE: EXCEPTION CORNER LOTS- STREET FRONT SETBACKS MUST COMPLY WITH THE REQUIRED SETBACK OF THE PRINCIPAL STRUCTURE

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Page 4 of 9

APPEN DIX G

SWIMMING POOLS, SPAS AND HOT TUBS

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- and two-family dwelling.

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 equipment are an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water, provided that these regulations shall not be applicable to any pool less than 24 inches (610 mm) in depth or having a surface area of less than 250 square feet (23.25 m²). This includes in-ground, above-ground, 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 walls of said 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 AG107.

AG103.2 Above-ground and on-ground pools. Aboveground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-4 as listed in Section AG107.

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 AG107.

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 AG107.

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, aboveground or on-ground pool, hot tub or spa shall be provided with 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 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 aboveground 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 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 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 1.75 inches (44 mm) in width.

- 6. Maximum mesh size for chain link fences shall be a 1.25-inch (32 mm) square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1.75 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 1.75 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 greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
- 9. Deleted.
- 10. Where an aboveground 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, then:
 - 10.1. Deleted.
 - 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. All walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited locations. Barriers shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb the barriers.

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
ABBREVIATIONS**

AG106.1 General

- ANSI—American National Standards Institute
25 West 43rd Street, New York, NY 10036
- ASTM—American Society for Testing and Materials
1916 Race Street, Philadelphia, PA 19103
- NSPI—National Spa and Pool Institute
2111 Eisenhower Avenue, Alexandria, VA 22314

**SECTION AG107
STANDARDS**

AG107.1 General

ANSI/NSPI

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

ASTM

- ASTM F 1346-91 Standard Performance Specifications for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs AG105.2, AG105.5



Township of Woodbridge

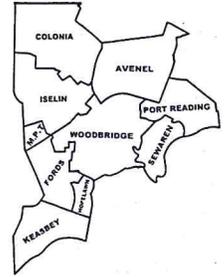
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Woodbridge - Ten Towns, One Community

ELECTRICAL REQUIREMENTS FOR ABOVE GROUND POOLS

(Some requirements mentioned below do not apply to above-ground pools with maximum depth of 42 inches, or pools made from molded polymeric, non-metallic or inflatable walls, regardless of dimensions.)

A. UNDERGROUND WIRING-

1. Pool wiring shall be installed in any one of the following methods at the following depths below finished grade:

- a. Schedule 40 or 80 PVC conduit- 18 inches
- b. Rigid metal conduit (galvanized steel) 6 inches
- c. Intermediate metal conduit- 6 inches

- Type UF Cabling and EMT is not allowed!
- Refer to NEC Table 300-5 for further information

B. POOL FILTER PUMP MOTOR-

1. 125 Volt 20 Amp locking-type receptacle (twist lock) with "in-use" (bubble) weatherproof cover. Rubber cord (no longer than 3 feet in length) must be 12/3 type SJ or equivalent/ cord must be a listed assembly with sealed end.
2. Locking-type receptacle shall be GFI protected.
3. Pump motor receptacle shall be located greater than 6 feet and less than 10 feet from inside wall of pool
4. Receptacle to be mounted on 4 x 4 pressure treated lumber post, set in concrete or other approved method.
5. Outlet to have in/use bubble type cover for weather protection.
6. Time clock required for pump motor
7. Conductors to motor outlet to be listed THHN/THWN type insulated, #12 copper

Revised 07/12

Page 7 of 9



Township of Woodbridge

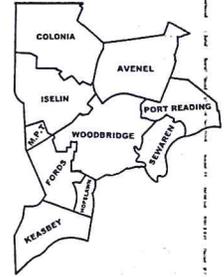
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ELECTRICAL REQUIREMENTS-CONTINUED

C. POOL BONDING

1. #8 bare solid copper wire from lug on pool filter pump to metal pool upright. Wire must be buried underground and must contact pool upright at 4 points with listed lugs and contact pool water through listed type bonding fitting.
2. Metal pool ladder or any metal (shed, fence, etc.) within five (5) feet on inside wall of pool to be connected to grounding lug on pool filter pump motor with #8 solid copper wire.
3. Bonding wire to extend around entire pool perimeter, 18" off of pool wall, and be 6" deep. Splices to be made by listed type assembly only.

D. MISCELLANEOUS-

1. GFI protected convenience receptacle shall be located not less than 6 feet but not more than 20 feet from pool. Maximum height of receptacle to be 6ft 6 inches above grade.
2. Auxiliary receptacle to be on separate 15/20 amp line, cannot share same circuit as pump/motor circuit.

E. ELECTRICAL INSPECTIONS-

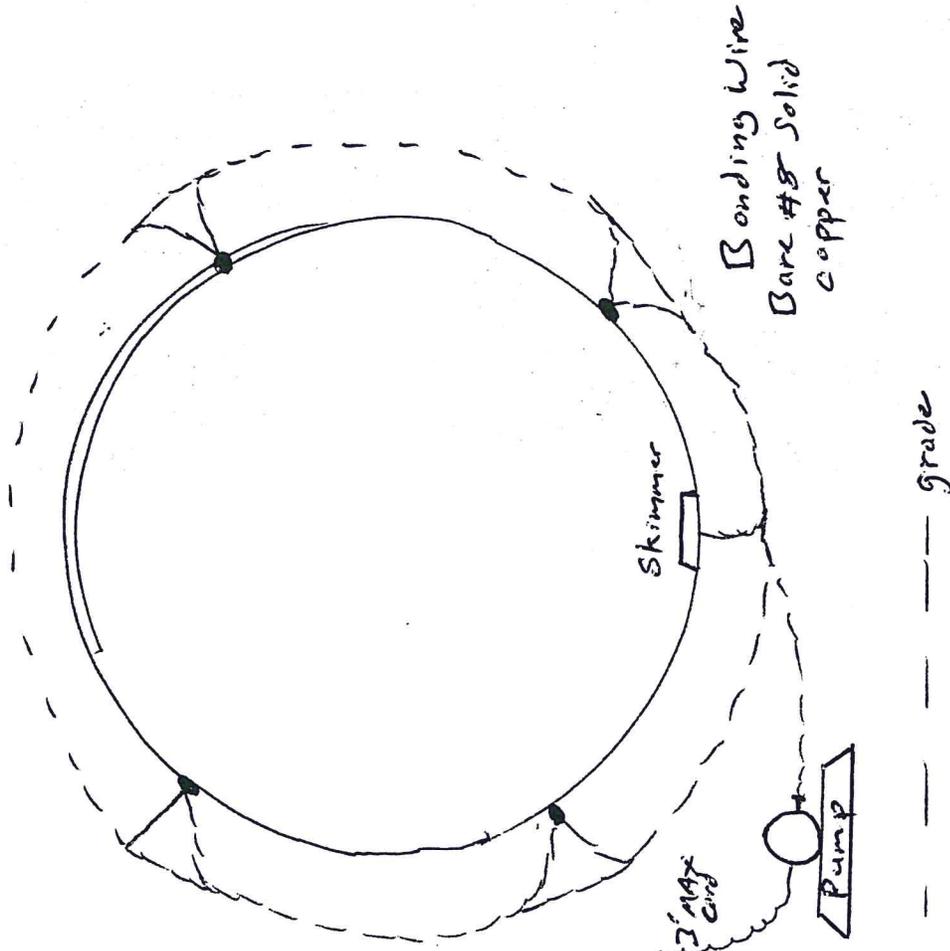
1. **Rough-** Underground Wiring and Bonding
 2. **Final-** Water in Pool; Filter Running.
- This list of items A through E is for informational purposes only. It does not include all applicable rules of the National Electrical Code; nor is it to be used as a design guide. If in doubt contact a licensed Electrical Contractor.
 - Reference- 2011 National Electrical Code Section 680 Swimming Pools.
 - See Sample Sketch Attached.

Revised 07/12

Page 8 of 9

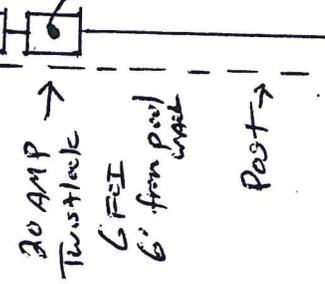
Example Diagram for above ground pool

Prefer to NEC for further Detail



Water Bonding Fitting may be located in skimmer OR pump fitting in line type

Aux Outlet not less than 6' or more than 30' from pool water



6 FEI Aux Outlet on house OR can be on post Separate at Pump Circuit 6' 6" or Max Height

Dwelling Unit

To Panel

20 AMP Feed

#12 Copper Conductors PVC Conduit 1 1/2" Deep / THHN / THWN TYPE

10, 4F Wire OR NM Cable permitted