

City of WOOD DALE

404 N Wood Dale Road | Wood Dale, Illinois 60191
<http://www.wooddale.com/permits> | (630) 766-5133
Apply at www.my.wooddale.com

RESIDENTIAL ABOVE GROUND POOLS, HOT TUBS & SPAS

This handout is for residential above ground pools, hot tubs and spas. Be advised that standard first review times are 3-5 business days. Revision review may be an additional 2-10 business days.

The applicant will be notified via the self-service portal, [my.wooddale.com](http://www.my.wooddale.com) regarding permit status. Registration may be required for the contractor, please see Contractor Registration Information to determine if this applies to your project.

REQUIRED SUBMITTALS

The following items must be received in order for the Community Development Department to process the permit application. **Incomplete applications will not be accepted.**

Completed Building Permit Application

Applications must be filled out via the City of Wood Dale's self-service portal, www.my.wooddale.com.

Required Attachments

- Current Plat of Survey* with the proposed work indicated
- Manufacture's specifications for the pool, ladder, cover, filter system, heater, lighting or other equipment to be installed
- Electrical Specifications
- Copy of the Proposal or Contract that is signed by the Property Owner (if a contractor is to do the work)
- Signed letter from the townhome or condominium association that indicates their approval (if applicable)

**A Plat of Survey that is accurate but older than one year can be submitted with a signed Survey Affidavit available at the Community Development Department.*

Site Plan / Electrical Requirements

Minimum required information to be provided on the submittals.

Plat of Survey

- Attach copy of the plat of survey to **SCALE** for City staff to verify and calculate Impervious Lot Coverage. (Incomplete, reduced and enlarged copies of the plat of survey cannot be accepted).
- Indicate on the plat of survey the proposed location of the above ground pool, hot tub or spa. (Refer to sample plat of survey). Provide approximate dimensions to the nearest property lines.
- Indicate on the plat of survey the location of the existing house electrical service, and any electrical outlets, lights, utility boxes or other electrical equipment. Indicate the location of the electrical service line on the drawings and label if it is overhead or underground. Pools, hot tubs and spas shall provide a minimum clearance of 22'-6" in any direction to the water level or water edge, and a minimum of 10' horizontally for the electrical service if above ground, and 5' horizontally if underground. See electrical requirements and diagram for additional information.
- Indicate the location for the pool equipment and its dedicated outlet. Provide a dimension from the outlet to the edge of the pool. If installing a hot tub, indicate the location for the new or existing outlet or junction box.
- Indicate the location of a fence or other barrier, and its height, type of construction and any gates. See barrier requirements for additional information.

Electrical

Provide a line diagram or other drawing that indicates the construction details for the new electrical to be run. For new electrical to be installed in the yard, indicate the type of conduit to be used and the depth that the conduit will be buried. Indicate that the outlet will be a dedicated circuit, three prong locking type (for a pool filter) with GFCI protection and "in use" cover. See minimum Electrical Requirements below for further information.

REQUIRED INSPECTIONS

- | |
|---|
| <ol style="list-style-type: none">1. Electrical Underground2. Mechanical Underground (for gas piping if applicable)3. Electrical Bonding4. Electrical Final5. Mechanical Final (For gas piping including gas pressure test if applicable)6. Building Final |
|---|

SIGNIFICANT CODE REQUIREMENTS

ZONING REQUIREMENTS

General

- Pools, hot tubs and spas are only permitted in the rear yards of the property.
- Combined square footage of all impervious surfaces on one residential lot shall not exceed 40 percent (40%) of the lot area. Pools are considered impervious.
- Pools be located a minimum of ten feet (10') from the principal structure and shall be located at least five feet (5') from any side or rear lot line, or ten feet (10').
- In no case shall a deck or an accessory structure (including pools) be permitted in any public utility drainage or access easement.
- In no case shall a deck or an accessory structure (including pools) be permitted in any floodplain.

BUILDING REQUIREMENTS

General

- All new pools, hot tubs and spas are to follow the International Residential Code, National Electrical Code as amended by the City of Wood Dale.
- The water supply for the pool can be brought in by truck or, if filled from an outside hose bibb, the hose bibb must have a **vacuum breaker or backflow prevention device** installed to prevent the contamination of the homes water supply.
- Metallic gas piping and fittings shall be coated with a corrosion-resistant material.
- The swimming pool shall not collect or hold stagnant or improperly treated water and must be drained in a way that does not create a hazard or directs water to any other properties. The pool must be drained to the curb or gutter located along an adjacent street during warm weather.
- 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.

Barriers

- Pools, hot tubs and spas shall have adequate safety barriers. Barriers can be provided by one of the following methods:
- When a fence is used as a barrier, it shall be a minimum of 48" above grade from the outside that faces away from the pool. The maximum distance between the bottom of the fence and the grade is to be 2". Openings in the fence shall not allow the passage of a 4" sphere. The maximum size for chain-link shall be 2 1/4" unless the fencing has slats that reduces the openings. When the fence is composed of diagonal such as a lattice, the openings shall be less than 1 3/4". IRC AG105.2.
 - a. All access gates shall be equipped with a locking device. Gates shall open outward away from the pool, and shall be self-closing and self-latching. Where the release of the latching device is located less than 54" from the bottom of the gate, the latch shall be located on the pool side of the gate at least 3" below the top of the gate, and the gate shall have no openings larger than 1/2" within 18" of the latch. IRC AG 105.2.
- The side walls of the pool with a minimum height of 48" above grade from the outside of the barrier that faces away from the pool. This type of barrier must be provided with a removable or lockable step ladder.
- Hot tubs and spas may be provided with lockable safety covers listed ASTM F 1346.
- Where the wall of the house is used as part of the barrier, ONE of the following conditions must be provided:
 - a. The pool is provided with a powered safety cover in compliance with ASTM F1346.

- b. Doors with direct access to the pool shall be equipped with an alarm that produces an audible warning when the door is opened. The alarm shall be listed and labeled as a water hazard entrance alarm in accordance with UL 2017. The deactivation switch(s) shall be located at least 54 inches above the threshold of the door

Electrical

- All electrical wiring and devices, new or existing, must be installed so as to not create a hazard.
- The swimming pool pump must be UL listed (or similar tested) device with a minimum 12 AWG cord, not longer than 36" in length terminating in a twisting and locking cord plug. NEC 680.7.
- Pool Pump Receptacle (Outlet) and Wiring Methods
 - a. For permanently intended pump motor receptacle shall located between 6' to 10' feet from the inside pool wall, the receptacle must be a single twist-lock outlet, and GFCI protected.
 - b. The outdoor pump receptacle must have a weatherproof cover that can be closed when the pump cord is plugged in (In use type cover).
 - c. The electrical circuit line for a permanently intended pool pump motor must be a continuous line going directly to panel box, and is to be isolated from all other receptacles. (1a)
 - d. The wire for the pump motor shall not be less than #12 AWG insulated copper grounded wire, and must be in conduit.
 - e. The receptacle must be mounted on a post in the yard or be provided with other permanent means of support.
- Lighting fixtures, ceiling fans, or lighting outlets located within 5' to 10' of the inside walls of the pool must be GFCI protected unless they are 5' or more above the maximum water level, and rigidly attached to a permanent structure. NEC 680.22(B)(4)
- One 120-volt GFCI protected outlet is required and shall be a minimum of 6' and a maximum of 20' away from the pool. This receptacle shall not be located more than 6'-6" above the floor, deck, platform, or grade level serving the pool. NEC 680.22(A)(1)
- A means of disconnect is required for all utilization equipment (other than lighting). The disconnecting means shall be within sight from the equipment and located at least 5' horizontally from the inside walls of the pool, hot tub or spa. NEC 680.12.
- 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.
 - a. Conductive pool shells must be bonded a minimum of four (equal) points uniformly spaced around the pool.
 - b. 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.
 - c. Bonding points or attachment must use non-corrosive clamps.

Electrical Diagram- clearances to overhead electrical service wires

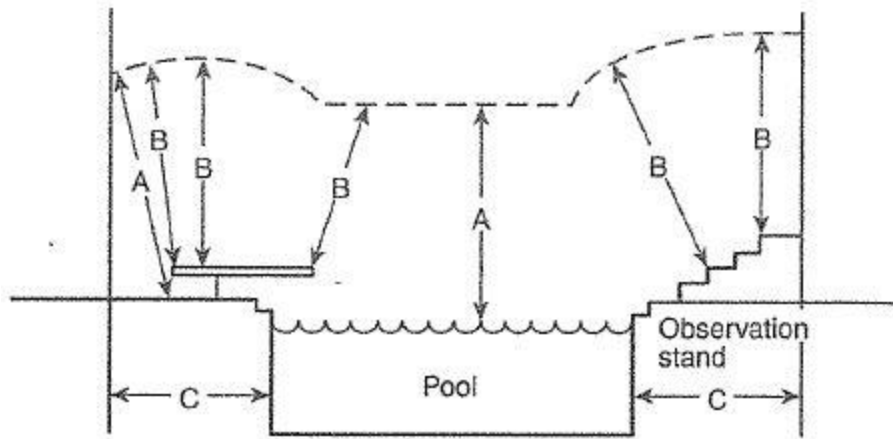


TABLE 680.8 Overhead Conductor Clearances

Clearance Parameters	Insulated Cables, 0-750 Volts to Ground, Supported on and Cabled Together with a Solidly Grounded Bare Messenger or Solidly Grounded Neutral Conductor		All Other Conductors Voltage to Ground			
	m	ft	0 through 15 kV		Over 15 through 50 kV	
			m	ft	m	ft
A. Clearance in any direction to the water level, edge of water surface, base of diving platform, or permanently anchored raft	6.9	22.5	7.5	25	8.0	27
B. Clearance in any direction to the observation stand, tower, or diving platform	4.4	14.5	5.2	17	5.5	18
C. Horizontal limit of clearance measured from inside wall of the pool	This limit shall extend to the outer edge of the structures listed in A and B of this table but not to less than 3 m (10 ft).					

Sample Plat of Survey

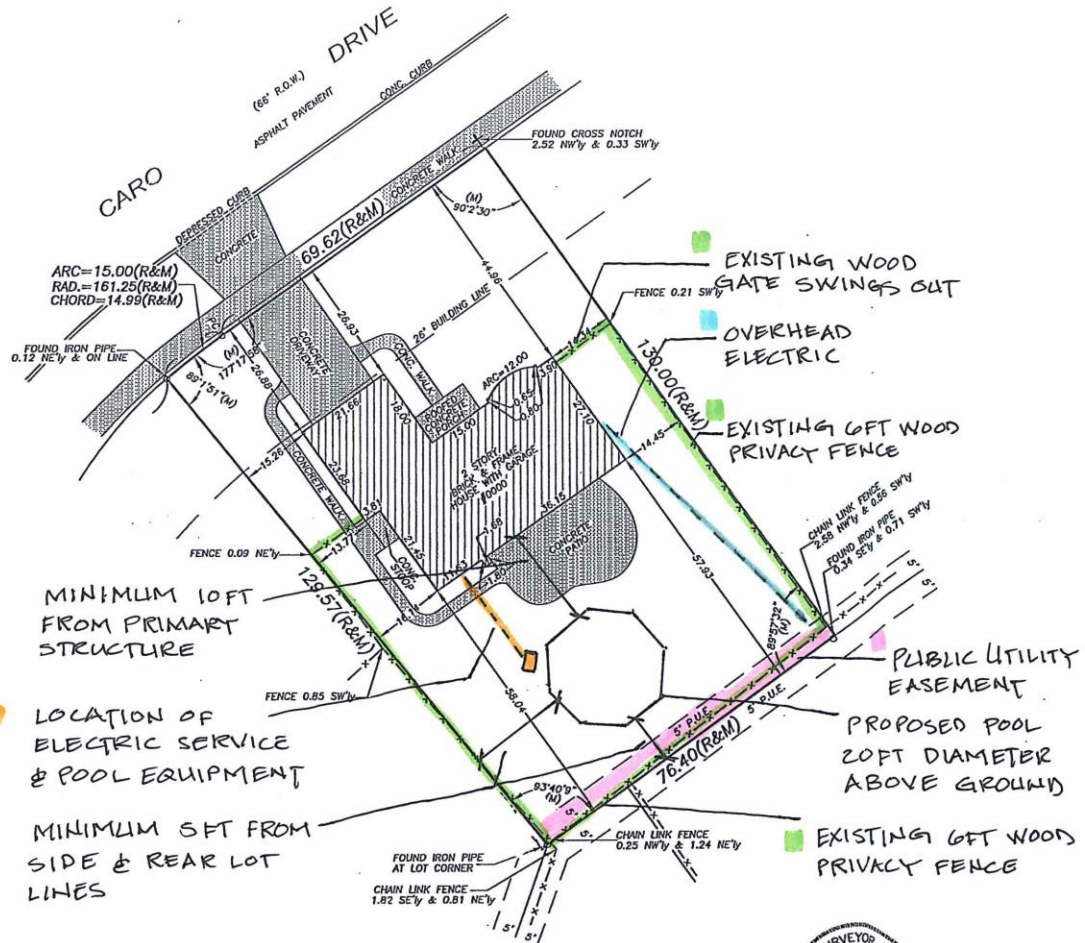
PLAT OF SURVEY

OF

LOT IN THE BEING A RESUBDIVISION IN THE SOUTHEAST
 QUARTER OF SECTION ... TOWNSHIP ... NORTH, RANGE ... EAST OF THE THIRD
 PRINCIPAL MERIDIAN, IN COUNTY, ILLINOIS.

PIN: 00-00-000-000-0000 TOTAL LAND AREA: 10,464 SQ.FT.

COMMONLY KNOWN AS:



ORDER NO.: _____
 ORDERED BY: _____

-DIMENSIONS ARE SHOWN IN FEET AND DECIMALS AND ARE NOT TO BE ASSUMED FROM SCALING.
 -THE LEGAL DESCRIPTION NOTED ON THIS PLAT WAS PROVIDED BY THE CLIENT AND FOR ACCURACY SHOULD BE COMPARED WITH DEED AND/OR TITLE POLICY.
 -BUILDING LINE RESTRICTIONS AND EASEMENTS ARE SHOWN ONLY WHERE THEY ARE SO RECORDED ON THE SUBDIVISION PLAT OR ARE FURNISHED WITH THE ORDERED DESCRIPTION, REFER TO YOUR DEED, ABSTRACT AND/OR TITLE POLICY.
 -COMPARE ALL POINTS BEFORE BUILDING AND AT ONCE REPORT ANY DISCREPANCIES, WHICH YOU MAY HAVE FOUND, TO THIS OFFICE.

STATE OF ILLINOIS

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS OF PRACTICE APPLICABLE TO BOUNDARY SURVEYS.

FIELD WORK COMPLETED: _____
 DATED THIS _____ DAY OF _____

BY _____
 PROFESSIONAL ILLINOIS LAND SURVEYOR
 LICENSE EXPIRES _____

Images

