



Village of Round Lake Beach
Residential Permit Application Review Guidelines
RESIDENTIAL POOL & SPA GUIDELINES

CODE REFERENCE

Swimming pools and spas (i.e., hot tubs) must be installed according to the 2018 International Swimming Pool and Spa Code (ISPSC), and 2018 International Residential Code (IRC) and the 2017 National Electric Code (NEC).

GENERAL

Pools designed to contain water 24" deep or more require a building permit. [IRC 105.2 [7]]

SPECIFICATIONS TO INCLUDE WITH PLANS/DRAWINGS

1. Indicate proposed pool/spa location on a copy of the Plat of Survey showing overall size and distances from the lot lines, main building and setback distances.
2. Provide structural drawings of pool.
3. Provide manufacturer's specifications.
4. Provide UL listings for the filter pump.
5. Name, license number and contact information of electrical contractor.

REQUIRED INSPECTIONS

1. Pool Base Inspection
 2. Underground Electric Inspection, to be conducted after trenching and before burial
 3. Final Electric Inspection, at completion of all electrical work
 4. Final Inspection, at completion of all work and prior to first use
- **Contact JULIE before you dig by calling 811 or 1-800-892-0123**

LOCATION

1. Swimming pools located in the floodplain must comply with the storm water ordinance. (*Title 9, Chapter 4, Section 9-4-5*)
2. Pools and spas must be setback at least 5 ft from the side and rear lot lines. (*Zoning 215.3, 1/215.4, 2*)
3. Pools and spas may not be located in an easement or front yard. (*Zoning 215.3, 1/215.4, 2*)

FENCE BARRIER REQUIREMENTS

1. The top of the barrier must be a minimum 48 inches above grade where measured on the side of the barrier that faces away from the pool or spa. Such height shall exist around the entire perimeter of the barrier and for a distance of 3 feet measured horizontally from the outside of the required barrier. (*ISPSC 305.2.1.[1]*) (*ISPSC 305.2.1 AND 2,3 and 4 must also be considered*).
2. Openings in the barrier must not allow passage of a 4 inch sphere. (*ISPSC 305.2.2*)
3. Gates must be secured with a self-latching device, and the release mechanism of the self-latching device must be located less than 54 inches from grade. The release mechanism must be located on the pool side of the gate at least 3 inches below the top of the gate, and the gate and barrier may not have openings greater than ½ inch within 18 inches of the release mechanism. (*ISPSC 305.3.3*)

4. In those cases where a wall of a dwelling or structure serves as part of the barrier, doors and operable windows with a sill height of less than 48 inches that provide direct access to the pool or spa must be equipped with one or more of the following: *(ISPSC 305.4)*
 1. An alarm that produces an audible warning when the door or its screen or window is opened. The alarm must be listed and labeled as a water hazard entrance alarm in accordance with UL 2017.
 2. A safety cover that is listed and labeled in accordance with ASTM F 1346.
5. Ladders or steps used as part of a pool barrier must be capable of being secured, locked or removed to prevent access OR the ladder shall be surrounded by an approved barrier. *(ISPSC 305.5.[3])*

ELECTRICAL REQUIREMENTS

Electrical installations must comply with the 2017 National Electrical Code & 2018 IRC.

1. Electrical power source for pool equipment and pool decks must be GFCI protected. *(IRC 4203.1.3) (NEC 680)*
2. At least one GFCI protected receptacle must be located between 6 feet (minimum) and 20 feet (maximum) from the inside wall of the pool or spa. *(IRC 4203.1.3) (NEC 680.22 [A] [1])*
3. Receptacles that provide power for water-pumps or other loads directly related to the circulation and sanitation system shall of the grounding type. Such receptacles shall be located not less than 6 feet from the inside walls of pools and outdoor spas and hot tubs, and must be ground fault circuit-interrupter protected. Cords used in this area shall be a maximum of 3 feet in length. *(IRC E4203.1.1) (NEC 680.22) (IRC 4202.3) (NEC 680.8 [A])*
4. Underground wiring shall not be installed under the pool except for approved wiring necessary to supply pool equipment. *(IRC 4203.7) (NEC 680.11)*
5. If in Rigid Metal Conduit (RMC) OR Intermediate Metal Conduit (IMC), buried electrical wiring must be buried at least 6 inches deep. If non-metallic raceway listed for direct burial is used, a depth of 18 inches minimum is required; additional ground wire is required when using non-metallic raceway. *(IRC 4203.7) (IRC Table 3803.1) (NEC 680.11) (NEC Table 300.5)*
6. A disconnect must be provided no closer than 5 feet from the inside walls of the pool or spa and within sight of the equipment. *(IRC E4203.3) (NEC 680.13)*
7. Bonding must be performed as described in *(IRC 4204.2) and (NEC 680.26 [B])* including the metal parts of the pool and electrical components as described in this section.
8. As described in Overhead Electrical Conductor and Broadband Conductor Clearances *(IRC E4203.6 and Table 4203.6) and (NEC Table 680.9[A])*:
 - a. There may not be any overhead conductors over the pool area, which includes the space above the pool and the space extending from the pool's edge to 10 feet away horizontally.
 - b. Once outside the above listed 10 feet limitation, overhead conductors must have a 22.5 feet minimum clearance in any direction to the water level and edge of water surface.
 - c. Once outside the above listed 10 feet limitation, overhead conductors must have a 14.5 feet clearance in any direction to any adjacent observation area, tower or diving platform.

FOR MORE INFORMATION

Contact 847/546-2351 or RESIDENTIALPERMITTING@roundlakebeachil.gov