

RESIDENTIAL SWIMMING POOLS, SPAS & HOT TUBS

Permit Application Guidelines

1. Submit to Community Development Building Division the following for review:
 - a) Building permit application.
Libertyville Municipal Code (LMC) 6-86(a), (b), (c) & (d)
 - b) Two Copies of the Plat of Survey dimensionally locating the swimming pool, spa and/or hot tub with regards to the property lines and any buildings on the site.
LMC 6-86(f)
 - c) Two copies of the swimming pool, spa and/or hot tub plan and equipment pad indicating the overall size and materials to be used in construction. **LMC 6-86(e)**
 - d) Calculations indicating lot coverage.
2. The permit may be issued within 5 business days from date of submittal to Building Division if information submitted is complete. **LMC 6-87(a)**
3. Call **J.U.L.I.E.** at (800)892-0123 to locate any underground utility lines before start of construction.

Swimming Pool Construction Guidelines

1. A permit is required for all swimming pools, spas and hot tubs that are designed and manufactured to be connected to a circulation system.
2015 International Swimming Pool & Spa Code (ISPSC) 101.2
2. Construction of the swimming pool and equipment shall be as required by the 2015 International Swimming Pool & Spa Code and the 2014 National Electrical Code and as noted in the Libertyville Municipal Code.
3. 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:
 - a. The top of the barrier shall be at least 48 inches 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 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.
 - b. Openings in the barrier shall not allow passage of a 4 inch diameter sphere.
 - c. 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.

- d. 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, the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches in width.
- e. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches or more, spacing between vertical members shall not exceed 4 inches. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches in width.
- f. Maximum mesh size for chain link fences shall be a 2.25 inch 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.
- g. 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.
- h. Access gates shall comply with the above items, a through g, 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. Where the release mechanism of the self-latching device is located less than 54 inches from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - (1) The release mechanism shall be located on the pool side of the gate at least 3 inches below the top of the gate, and
 - (2) The gate and barrier shall have no opening greater than 0.5 inch within 18 inches of the release mechanism.
- i. Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:
 - (1) The pool shall be equipped with a powered safety cover in compliance with ASTM F1346; or
 - (2) All operable windows & doors with direct access to the pool through that wall shall have an alarm which produces an audible warning when the door, window or its screen are opened. The alarm shall be listed and labeled as a water hazard entrance alarm in accordance with UL 2017.; or
 - (3) Other means of protection, such as self-closing doors with self-latching devices, which are approved by the governing body, shall be acceptable so long as the degree of protection afforded is not less than the protection afforded by items (1) and (2) described above.
- j. Where an onground 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:

- (1) The ladder or steps shall be capable of being secured, locked or removed to prevent access; or
- (2) The ladder or steps shall be surrounded by a barrier which meet the requirements of sections a through g above. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4 inch diameter sphere.

2015 ISPSC 305.2, 305.3, 305.4 & 305.5

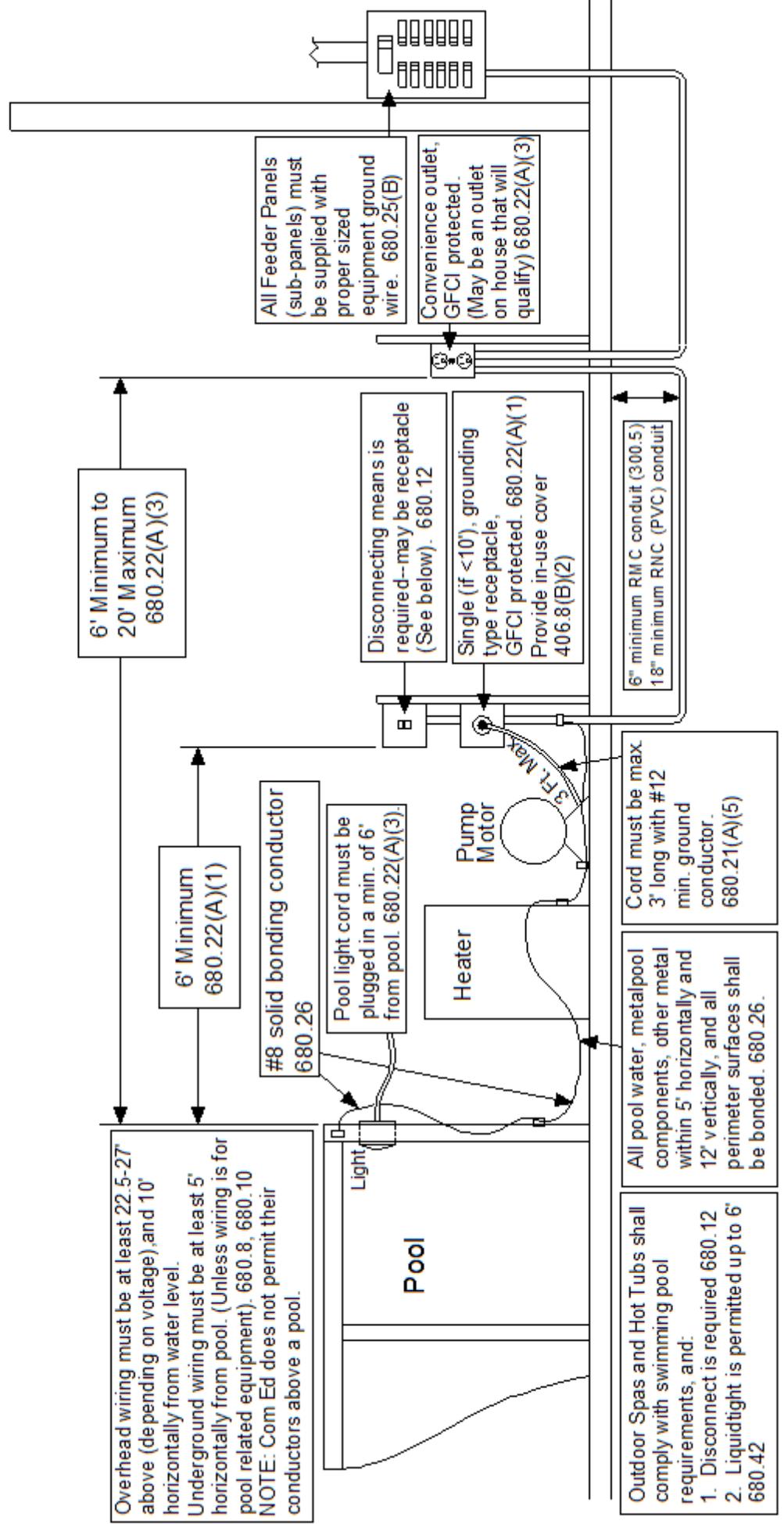
4. Spas or hot tubs with a lockable safety cover which complies with ASTM F1346, shall be exempt from section 3. **2015 ISPSC 305.1**
5. A disconnecting means must be placed within sight of pool equipment. **2014 NEC 680.12**
6. Swimming pools shall be buffered and screened by a solid fence or a densely planted evergreen hedge of not less than six (6) feet in height in combination along with any other landscaping materials as may be needed. Such screening shall be provided on all sides of the pool visible from any adjacent property or any street. **LZC 13-6**
7. Swimming pools shall not be in any front or corner side yard, and not closer than ten (10) feet from the rear or interior side yard lot line as measured from the edge of the pool deck. **LZC Ord. 99-O-09**
8. The addition of a swimming pool (deck) shall not exceed the maximum lot coverages (excluding the area which contains water). **LZC 4-2.5f, 4-3.5f, 4-4.5f, 4-5.5f, 4-6.5f, 4-7.5f, 4-8.5f & 4-9.5f**

Residential District Coverage and Setback Requirements

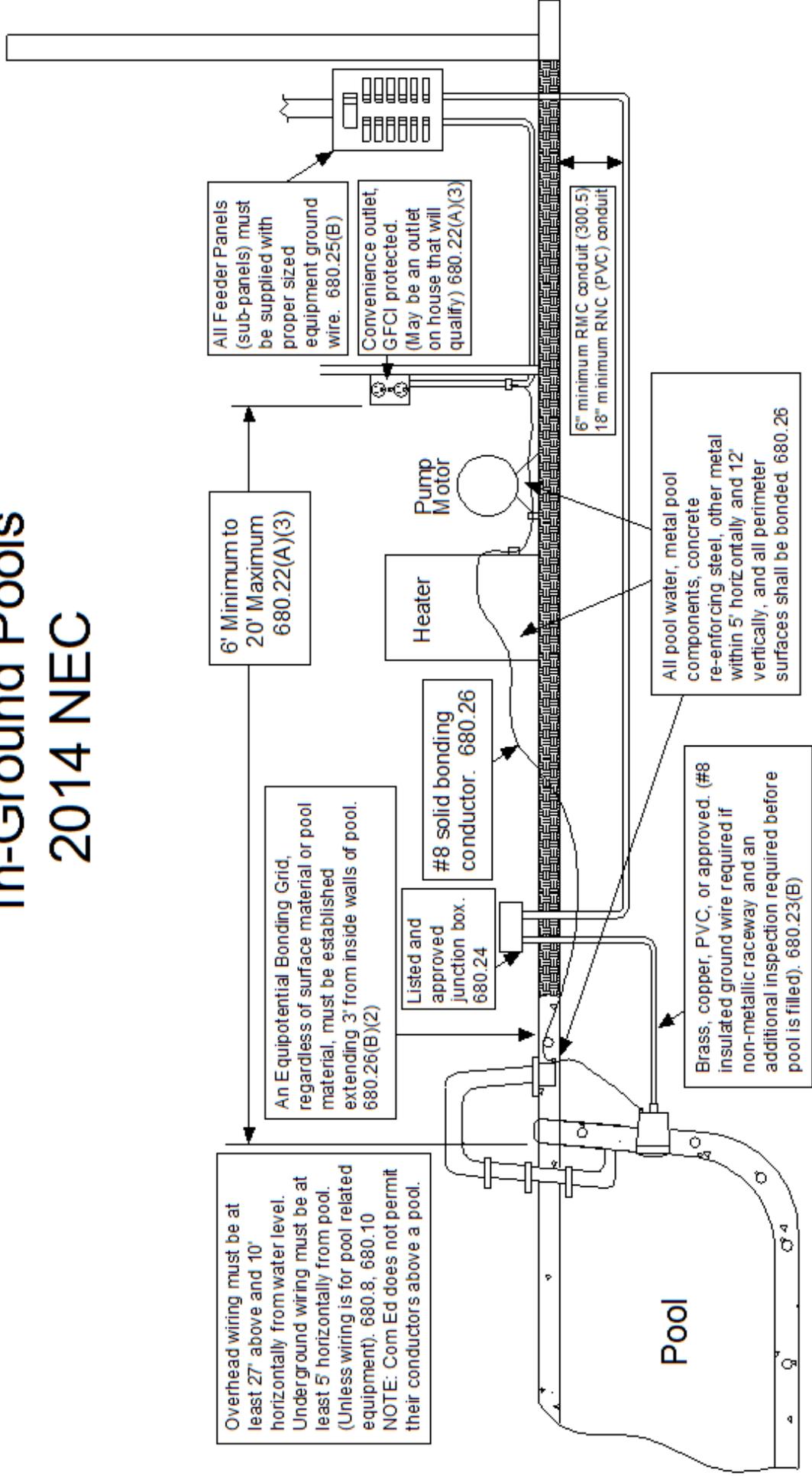
	R-1	R-2	R-3	R-4	R-5	R-6	R-7	R-8
Maximum Lot Coverage (Percent)								
Interior Lot	30	30	35	40	45	45	50	60
Corner Lot	25	25	30	35	40	40	45	55

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Electrical Information for Above-Ground Pools 2014 NEC



Electrical Information for In-Ground Pools 2014 NEC



Overhead wiring must be at least 27' above and 10' horizontally from water level. Underground wiring must be at least 5' horizontally from pool. (Unless wiring is for pool related equipment). 680.8, 680.10
NOTE: Com Ed does not permit their conductors above a pool.

6' Minimum to 20' Maximum 680.22(A)(3)

All Feeder Panels (sub-panels) must be supplied with proper sized equipment ground wire. 680.25(B)
Convenience outlet, GFCI protected. (May be an outlet on house that will qualify) 680.22(A)(3)

#8 solid bonding conductor. 680.26

Listed and approved junction box. 680.24

All pool water, metal pool components, concrete re-enforcing steel, other metal within 5' horizontally and 12' vertically, and all perimeter surfaces shall be bonded. 680.26

Brass, copper, PVC, or approved. (#8 insulated ground wire required if non-metallic raceway and an additional inspection required before pool is filled). 680.23(B)

6" minimum RMC conduit (300.5)
18" minimum RMC (PVC) conduit

Pool