



DE KALB COUNTY
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Received By: _____

RESIDENTIAL PLAN REVIEW (ABOVE-GROUND POOL)

THE INTENT OF THIS PLAN REVIEW IS TO NOTE BASIC CODE PROVISIONS FOR POOLS. IT IS NOT TECHNICALLY EXHAUSTIVE AND SHOULD NOT BE RELIED UPON AS SUCH. FAILURE TO ADDRESS ANY DEFICIENCY IN SUBMITTED PLANS DOES NOT RELIEVE THE PERMIT HOLDER FROM COMPLYING WITH ALL ADOPTED CODES OF DEKALB COUNTY. IT IS THE PERMIT HOLDER'S RESPONSIBILITY TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATION.

CODES ENFORCED:

- 2006 International Residential Code
- 2005 National Electrical Code
- 2004 Illinois State Plumbing Code
- Illinois State Energy Conservation Code
- DeKalb County Code

PERMIT#

Owner:

Contractor:

Type Improvement: Above-Ground Pool

Review Completed _____ by _____

<input type="checkbox"/>	FILE
<input type="checkbox"/>	OWNER / APPLICANT

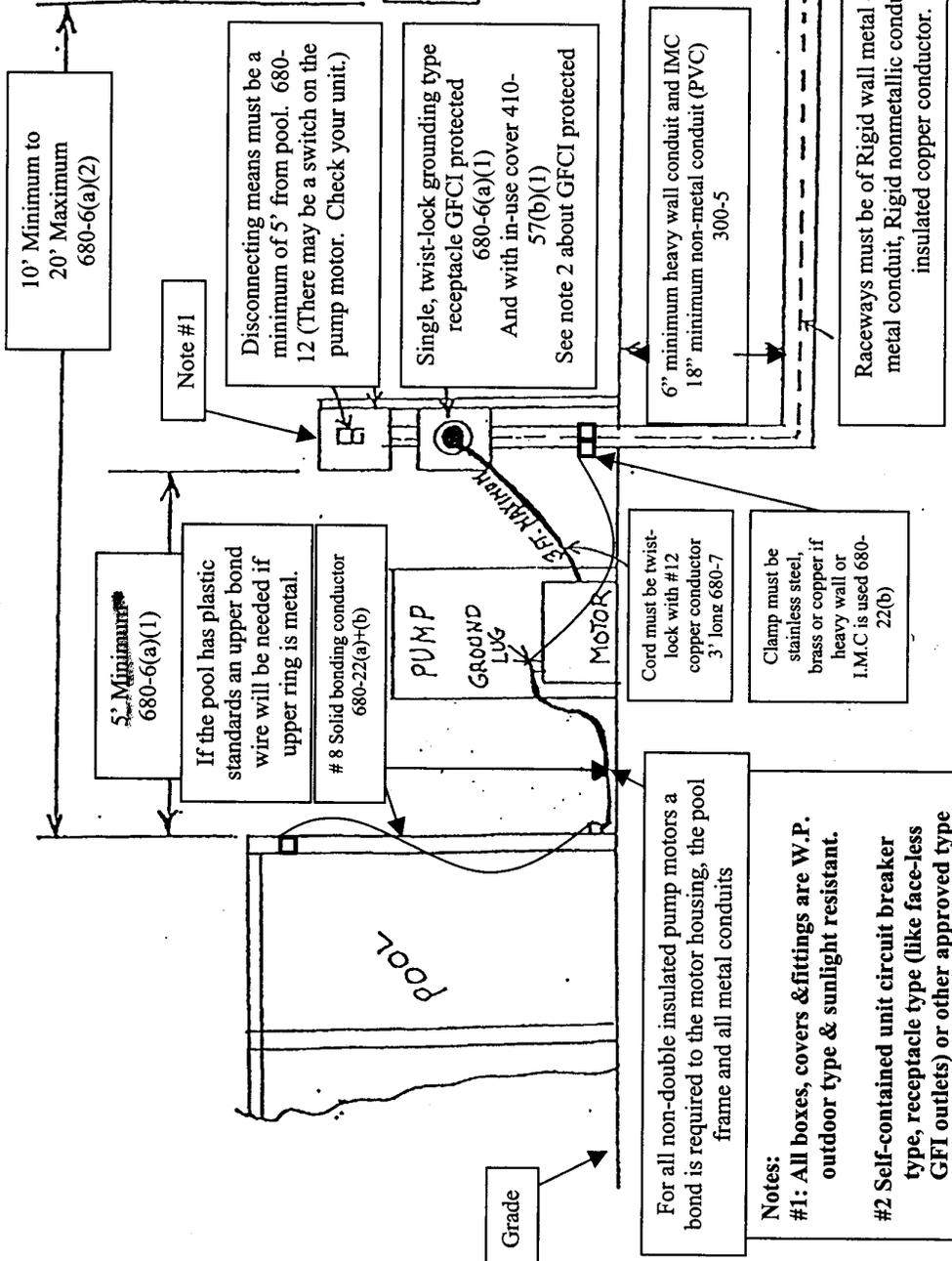
- **ALL provisions of the 2005 National Electrical Code pertaining to swimming pools must be met including: At least (1) 110 volt, GFCI protected convenience receptacle located ten (10) to twenty (20) feet from pool wall. All electrical equipment must be located within weatherproof enclosures.**
- **ALL provisions of the Illinois Energy Conservation code pertaining to swimming pools must be met including; readily accessible on/off switch for pool heaters; time switches that can automatically turn off and on heaters and pumps; and pool covers required for fossil-fueled or electric fueled heated pools.**
- **ALL provisions of the 2006 International Residential Code pertaining for swimming pools must be met, including entrapment protection and safety barrier requirements (see below).**

REQUIRED INSPECTIONS (call # above to schedule - final inspection required within 180 days.)

1. **SITE/SETBACK-** When location of pool is determined and staked, but prior to any digging or placement of pool equipment. (Completed prior to issuance of building permit.)
2. **FINAL-** When pool is filled and all equipment is in service and operating, electrical bonding is installed. and permanent barrier requirements (fences, gates, etc.), are in place and completed.

Electrical Pool information to the 1999 N.E.C. For Permanently installed pools

Outdoor Spa or Hot tub 680-40
 Shall comply with provisions of permanently installed swimming pools part A and part B of article 680
 1. Disconnecting means is required.
 2. The grounding wire must be sized to 250-122



Grounding. The following Equipment shall be grounded: (1) wet-niche and no-niche underwater lighting fixtures, (2) dry-niche underwater lighting fixtures, (3) all electric equipment located within 5ft of the inside wall of the pool, (4) all electric equipment associated with the recirculating system of the pool, (5) junction boxes, (6) transformer enclosures, (7) ground-fault circuit-interrupters, (8) panelboards that are not part of the service equipment and that supply any electric equipment associated with the pool. **680-24 and 680-25**
This should be a continuous ground wire no less than #12 AWG.

BADJR 602

POOL FENCE / BARRIER REQUIREMENTS
Excerpts from 2006 International Residential Code

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:

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 drowning and near drowning 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 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 13/4 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 13/4 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 13/4 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 13/4 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 13/4 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 (13 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 in accordance with UL 2017. The audible alarm shall activate within 7 seconds and sound continuously for a minimum of 30 seconds after the door and/or its screen, if present, are opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means, such as touch pad or switch, to temporarily deactivate the alarm for a single opening. Deactivation shall last for not more than 15 seconds. 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 approved by the governing body, shall be acceptable so 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.

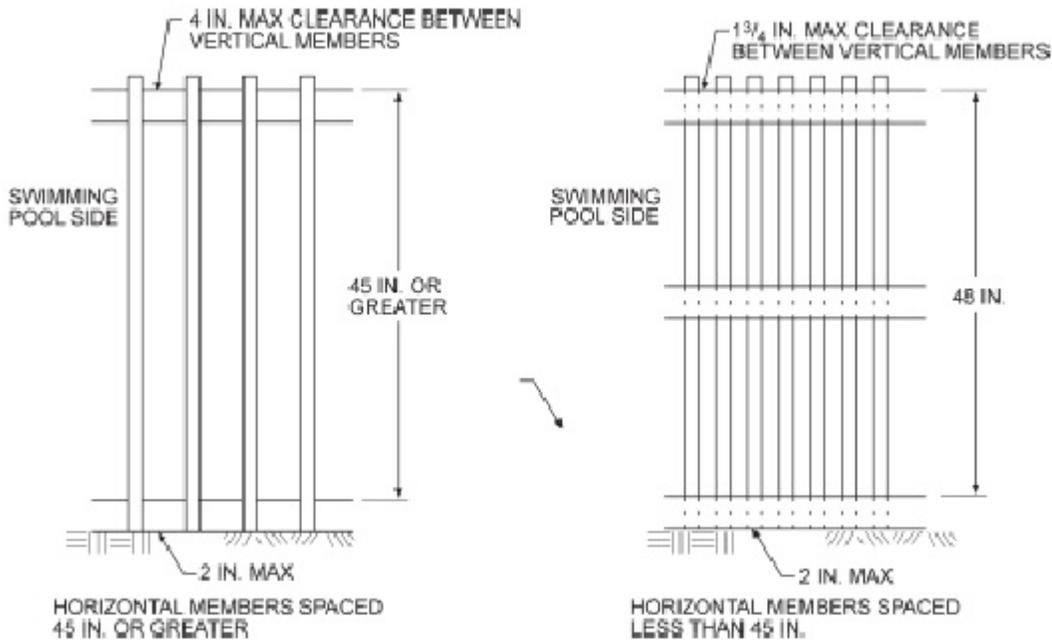
AG105.3 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

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.

DIAGRAM IS FOR ILLUSTRATION PURPOSES.

SEE CODE TEXT FOR COMPLETE INSTALLATION REQUIREMENTS.



For SI: 1 inch = 25.4 mm.

Figure AG105.2(2)
PRIVATE SWIMMING POOL BARRIER CONSTRUCTION

