Robert Assalone
Building & Zoning Official

Mark Knott
Town Manager

Office of the Building/Zoning & Minimum Housing Department

REGULATIONS FOR OBTAINING SWIMMING POOL PERMITS

SWIMMING POOL SAFETY DEVICES

Every person owning land on which there is situated a swimming pool hat is capable of containing twenty four (24) inches or more of water at any point, shall erect an maintain thereon an adequate enclosure either surrounding the property or immediate pool area, sufficient to make such body of water placed. Five (5) foot minimum or six (6) foot maximum fence is required around the pool. In case of an above ground pool, the owner may opt to place fencing or one (1) or two (2) on top of the pool to equal a minimum of five feet from the ground.

A NATURAL BARRIER, SUCH AS HEDGE, or other protective device approved by the governing body shall be maintained in good condition with gate and lock, and must prohibit the passage of any object exceeding four (4) inches in diameter.

AN APRON OF AT LEAST FOUR (4) FEET must be maintained inside said fence around an in-ground pool.

POOL MAY BE PLACED IN REAR YARD ONLY, according to the zoning regulations must be 10 feet from surrounding property lines (rear and sides). With a corner lot situation, a pool may not be placed in front or side/front yard area except as stipulated by zoning code.

A BUILDING PERMIT FOR THE POOL AND ELECRICAL PERMIT for the wiring must be secured prior to installation of the pool. Engineered specifications must be submitted for in-ground pools.

WORK TO BE DONE BY A LICENSED ELECTRICAN must be signed off by him/herself; if the homeowner is doing the work, he/she may sign for him/herself. Note: home must be single family owner occupied.

A COPY OF THE POOL CONTRACTORS REGISTRATION showing registration number and expiration date must accompany application, in lieu of personal appearance by said contractor.

PERMITS CAN BE APPLIED FOR ONLINE:
WWW.WESTWARWICKRI.GOV - BUILDING AND ZONING - PERMIT PORTAL

BOTH POOL AND ELECTRICAL APPLICATIONS SHOULD BE SUBMITTED TOGETHER

APPENDIX 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- or two-family dwelling.

AG101.2 Pools in flood hazard areas. Pools that are located in flood hazard areas established by Table R301.2(1), including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, shall comply with Sections AG101.2.1 or AG101.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

AG101.2.1 Pools located in designated floodways. Where pools are located in designated floodways, documentation shall be submitted to the *building official*, which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the *jurisdiction*.

AG101.2.2 Pools located where floodways have not been designated. Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the *jurisdiction*.

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 over 24 inches (610 mm) deep. This includes in-ground, above-ground and 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 the walls of the enclosing 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 AG108.

AG103.2 Above-ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-4 as listed in Section AG108.

AG103.3 Pools in flood hazard areas. In flood hazard areas established by Table R301.2(1), pools in coastal high hazard areas shall be designed and constructed in conformance with ASCE 24.

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 AG108.

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 AG108.

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, 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 $1^3/_4$ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1^3/_4$ 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 $1^3/_4$ 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 $1^3/_4$ 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 $1^3/_4$ 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 (12.7 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 and *labeled* in accordance with UL 2017. 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 as 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.

SECTION AG106
ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

AG106.1 General. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.

west Warwick

5.6.6 An access driveway for the lot may be located within its required yard.

5.6.7 Accessory off-street parking or truck loading areas shall be improved in accordance with town specifications.

5.6.8 Required accessory off-street parking areas or truck loading space shall not be encroached upon by buildings, open storage or any other use.

5.6.9 Accessory off-street parking areas shall not be located in a required front yard or side yard and shall be not less than ten feet from any property line in a required rear yard.

5.6.10 No commercial vehicle nor any camper, travel trailer, mobile home, boat, boat trailer, storage unit, dumpster or similar equipment used for storage of the vehicle, camper, travel trailer, mobile home, boat or boat trailer, storage unit, dumpster or similar equipment, shall be stored within the setback of any front or interior side or corner side property line as provided in section 5.4 hereof. No such equipment shall be used for living, sleeping or housekeeping purposes. For purposes of this section "shall be stored" shall refer to the location of such items on the property for more than 31 days in any 120-day period of time.

5.6.11 Any private garage in a residence district shall be occupied by boats or vehicles owned and operated only by the residents of the dwellings on the same lot. Except that one parking space may be occupied by the boat or the vehicle of a nonresident owner, if that space is in excess of the minimum requirements for the lot.

5.6.12 No commercial vehicles having three or more axles shall be stored, parked or garaged in a residential district, and the parking, storage or garaging of vans, trailers or semitrailers or similar vehicles designed to be propelled by a separate means of locomotion, or vehicles designed to be used for moving said vans, trailers or semitrailers, and all self-propelled machinery designed for commercial use shall be prohibited in residence districts. Vehicles used principally as pleasure or recreational vehicles registered to an occupant of the premises shall be exempt from the provisions of this section.

5.6.13 Overnight parking of buses. Overnight parking of buses shall not be permitted in a residence district.

5.6.14 Accessory buildings and or structures to be located or constructed in any residential zone in the required rear yard for a main or principal building shall not occupy more than 20 percent of such required rear yard. The total lot coverage shall not exceed the maximum lot coverage provided in the table of standard dimensional regulations.

5.6.15 The following accessory uses shall be permitted in residential districts provided that they shall conform to all other provisions of this ordinance and that they shall not be detrimental to or impair adjacent properties or the neighborhood.

5.6.15.1 The raising or growing of horticultural products for home use by a residential family thereon.

5.6.15.2 A hen house, barn, stable, kennel or dairy incidental to a permitted farming use.

5.6.15.3 A garden or tool shed used only for the storage of garden implements and light home maintenance tools.

5.6.15.4 A greenhouse not used for commercial purposes.

5.6.15.5 Swimming pools, including appurtenant structures such as dressing and shower rooms and equipment houses, enclosed by a fence not less than five feet in height.

5.6.16 An accessory family dwelling unit shall be permitted upon application by the owner in an owner occupied single-

WIRING OF POOLS PER NEC 2011

IF YOU HAVE ANY QUESTIONS CONCERNING THESE INSTRUCTIONS, PLEASE CALL JOSEPH ARGENTI, ELECTRICAL INSPECTOR AT 822-9222.

THIS PAPER IS PRESENTED A GUIDE ONLY. ALL SECTIONS OF ARTICLE 680 REQUIRE MANDATORY COMPLIANCE, AND THE INSTALLER BEARS THE FULL RESPONSIBILITY FOR NEC CODE COMPLIANCE AND WORMANSHIP.

PUMPS

1. INSTALL HARD WIRED OR WITH FLEXIBLE CORD
2. FLEXIBLE CORD SHALL NOT BE LONGER THAN 3 FT. OR SMALLER THAN 12/3 S.J.O. CORD
3. MOTOR FEED SHALL BE IN CONDUIT-IMC, RIGID METAL OR NON-METALLIC PVC
4. MOTOR CIRCUIT SHALL BE ON GFI CIRCUIT
5. EQUIPMENT GROUNDING CONDUCTOR SHALL NOT BE SMALLER THAN #12 INSULATED COPPER CONDUCTOR
6. RECEPTACLE MAY BE PLACED 5 FEET FROM THE POOL AND IT THEN MUST BE A TWIST LOCK TYPE AND NOT DUPLEX RECEPTACLE OUTLET
7. PUMP RECEPTACLE SHALL HAVE A WATER PROOF COVER
8. A DISCONNECT SHALL BE REQUIRED AND BE LOCATED WITHING SIGHT OF THE PUMP MOTOR

RECEPTACLES

1. A CONVENIENCE RECEPTACLE IS REQUIRED-THIS IS IN ADDITION TO THE RECEPTACLE FOR THE PUMP. LOCATE A MINIMUM OF 6 FT AND NOT MORE THAN 20 FT FROM THE INSIDE WALL OF THE POOL AND SHALL BE GFI PROTECTED. RECEPTACLE SHALL NOT BE MORE THAN 6'6" ABOVE GRADE LEVEL
2. THE CONVENIENCE RECEPTACLE MUST BE ON ITS OWN SEPARATE GFI CIRCUIT-NOT TAPPED OFF THE MOTOR CIRCUIT
3. FEED TO THIS RECEPTACLE MAY BE UF WIRE – CONDIUT NOT REQUIRED
4. BURIAL IS 18" MINIMUM FOR ANY UF CABLE OR CONDUIT FOR MOTORS, LIGHTING OR OTHER RECEPTACLES

BONDING

1. ALL METAL POOL PARTS MUST BE BONDED TOGETHER-USE #8 SOLID COPPER BONDING CONDUCTOR
2. BOND POOL IN 4 PLACES AND BRING BACK TO PUMP MOTOR FRAME AND ANY METAL RECETACLE BOX – DO NOT BRING BACK TO THE SERVICE
3. BONDING CONNECTIONS MUST BE EXOTHERMIC WELD OR APPROVED AND LABELED PRESSURE CONNECTORS.
4. **@ POOL WATER.** AN INTENTIONAL BOND OF A MINIMUM CONDUCTIVE SURFACE AREA OF 5806 MM (9 IN) SHALL BE INSTALLED IN CONTACT WITH THE POOL WATER. THIS BOND SHALL BE PERMITTED TO CONSIST OF PARTS THAT ARE REQUIRED TO BE BONDED IN 680.26(B)

GROUNDING

1. TIE POINT FOR #8 BONDING CONDUCTOR AND #12 GROUNDING CONDUCTOR IS AT THE MOTOR AND RECETACLE BOX-ONLY #12 IN CONDUIT GOES BACK TO SERVICE FOR GROUNDING PURPOSES
2. ALL ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, JUNCTION BOXES, TRANSFORMERS, SHALL BE GROUNDED USING NO SMALLER THAN #8CU

LIGHTING

1. ANY LIGHTING SYSTEM SHALL BE ON ITS OWN SEPARATE GFI CIRCUIT AND NOT TAPPED FROM ANY MOTOR OR CONVENIENCE CIRCUIT AND USE NO SMALLER THAN A #12CU GROUNDING CONDUCTOR
2. NO LIGHTING OVER POOL WITHIN 5 FT TO THE SIDES UNLESS 12 FT OVER MAXIMUM WATER LEVEL
3. WIRING TO UNDERWATER FIXTURES REQUIRES CONDUIT AND FIXTURES LISTED FOR USE. **INSTALLER TO SPECIFY WET, DRY OR NO-NICH ON PERMIT.**
4. IF CIRCUIT VOLTAGE IS MORE THAN 15 VOLTS A GFI IS REQUIRED. GFI IS RECOMMENED FOR ALL LIGHTING.
5. IF RIGID NON-METALLIC CONDUIT IS USED FOR UNDER WATER LIGHTING, A #8 INSULATED BONDING CONDUCTOR SHALL BE INSTALLED IN THIS CONDUIT FOR 120 VOLT CIRCUITS
6. JUNCTION BOXES SHALL BE NOT LESS THAN 4 FT FROM POOL
7. LOW VOLTAGE TRANSFORMER MUST BE APPROVED FOR USE

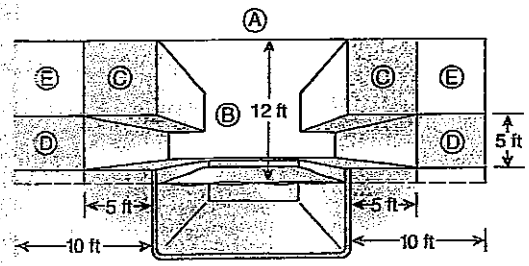
ELECTRICAL EQUIPMENT

1. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED AND APPROVED BY KNOWN LISTING LABORATORIES
2. IT IS THE INSTALLERS RESPONSIBILITY TO PROVIDE PROOF THAT ALL ELECTRICAL EQUIPMENT IS LISTED AND LABELED AS REQUIRED BY THE N.E.C.

INSPECTION

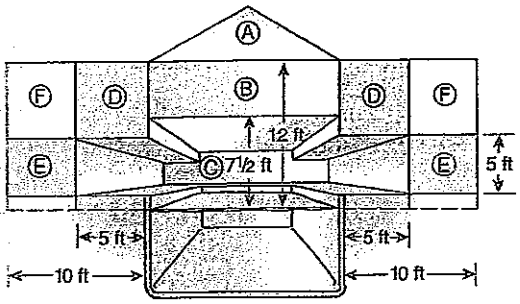
1. IN-GROUND POOLS REQUIRE AN INSPECTION FOR PROPER BONDING CONDUCTOR WIRING AND CONNECTIONS
2. IN-GROUND POOLS THAT CONTAIN UNDER WATER FIXTURES MUST HAVE THE FIXTURE WIRING INSPECTED PRIOR TO WIRING CONCEALMENT.
3. ABOVE GROUND POOL EQUIPMENT AND ASSOCIATED TRENCH INSPECTION CAN BE MADE AT THE SAME TIME

Outdoor Pools



Ⓐ Luminaires, lighting outlets, and ceiling-suspended (paddle) fans permitted above 12 ft.
Ⓑ Luminaires, lighting outlets, and ceiling-suspended (paddle) fans not permitted below 12 ft.
Ⓒ Existing luminaires and lighting outlets permitted in this space if rigidly attached to existing structure (GFCI required).
Ⓓ Luminaires and lighting outlets permitted if protected by a GFCI.
Ⓔ Luminaires and lighting outlets permitted if rigidly attached.

Indoor Pools



Ⓐ Luminaires, lighting outlets, and ceiling-suspended (paddle) fans permitted above 12 ft.
Ⓑ Totally enclosed luminaires protected by a GFCI and ceiling-suspended (paddle) fans protected by a GFCI permitted above 7½ ft.
Ⓒ Luminaires, lighting outlets, and ceiling-suspended (paddle) fans not permitted below 5 ft.
Ⓓ Existing luminaires and lighting outlets permitted in this space if rigidly attached to existing structure (GFCI required).
Ⓔ Luminaires and lighting outlets permitted if protected by a GFCI.
Ⓕ Luminaires and lighting outlets permitted if rigidly attached.

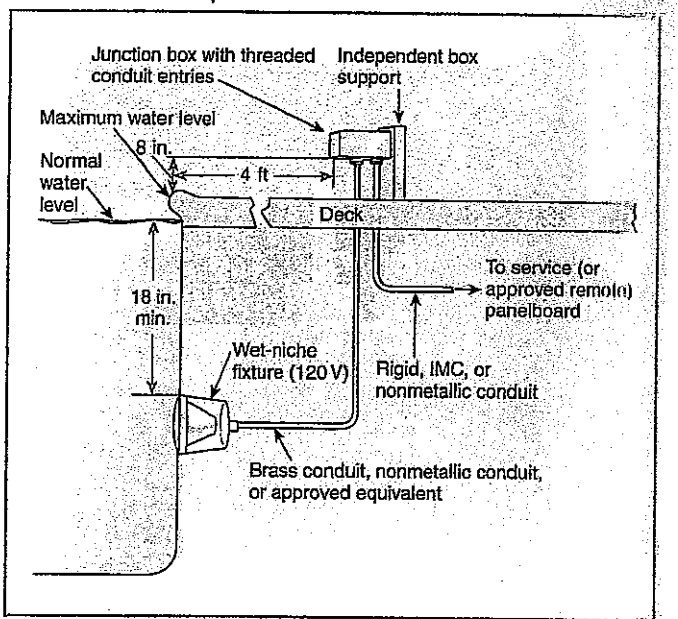


Exhibit 680.1 Wet-niche luminaire installation with junction box supported above pool deck.

(2) Perimeter Surfaces. The perimeter surface shall extend for 1 m (3 ft) horizontally beyond the inside walls of the pool and shall include unpaved surfaces as well as poured concrete and other types of paving. Bonding to perimeter surfaces shall be provided as specified in 680.26(B)(2)(a) or (2)(b) and shall be attached to the pool reinforcing steel or copper conductor grid at a minimum of four (4) points uniformly spaced around the perimeter of the pool. For nonconductive pool shells, bonding at four points shall not be required.

(a) *Structural Reinforcing Steel.* Structural reinforcing steel shall be bonded in accordance with 680.26(B)(1)(a).

(b) *Alternate Means.* Where structural reinforcing steel is not available or is encapsulated in a nonconductive compound, a copper conductor(s) shall be utilized where the following requirements are met:

(1) At least one minimum 8 AWG bare solid copper conductor shall be provided.

(2) The conductors shall follow the contour of the perimeter surface.

(3) Only listed splices shall be permitted.

(4) The required conductor shall be 450 to 600 mm (18 to 24 in.) from the inside walls of the pool.

(5) The required conductor shall be secured within or under the perimeter surface 100 mm to 150 mm (4 in. to 6 in.) below the subgrade.

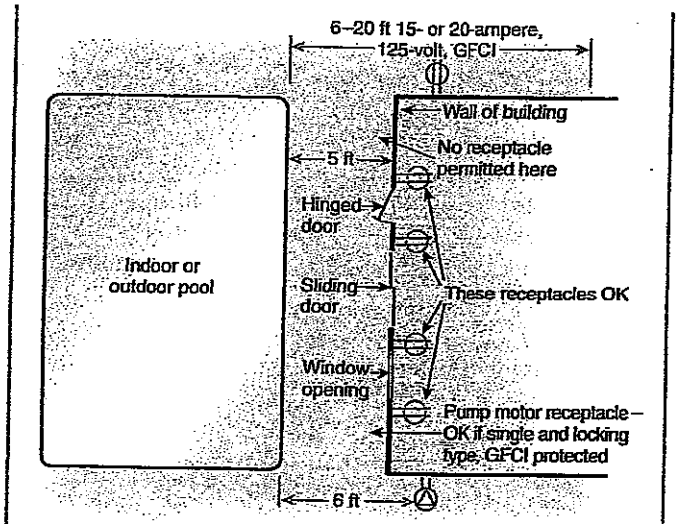


Exhibit 680.4 Acceptable receptacle locations within 20 ft of a permanently installed swimming pool.

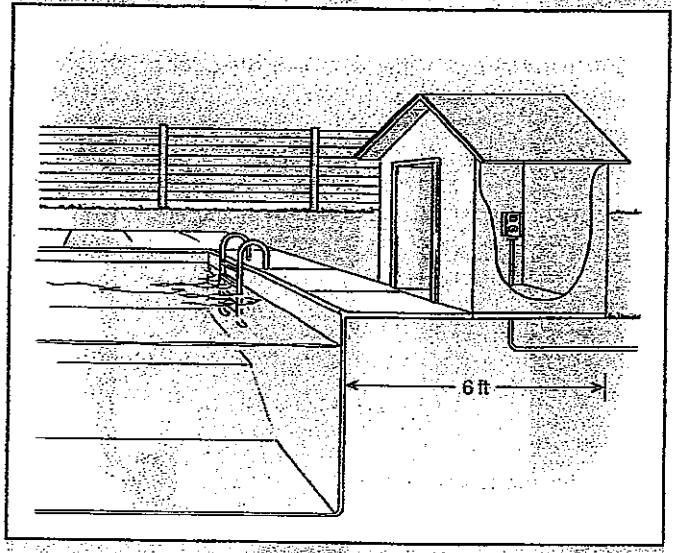


Exhibit 680.5 Permitted receptacle location less than 6 ft from the inside wall of a permanently installed pool. The minimum distance required by 680.22(A) does not apply to a receptacle located in a structure.

Table 680.10 Minimum Cover Depths

	Minimum Cover	
Wiring Method	**mm**	**in.**
Rigid metal conduit	150	6
Intermediate metal conduit	150	6
Nonmetallic raceways listed for direct burial without concrete encasement	450	18
Other approved raceways*	450	18

*Raceways approved for burial only where concrete encased shall require a concrete envelope not less than 50 mm (2 in.) thick.

GREAVES

GREAVES EXCLUSIVE

"Jones Bond" System

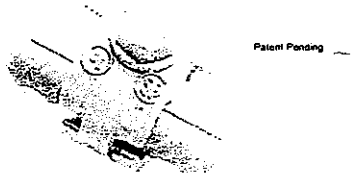
BONDING & GROUNDING

Ufer grounding / Swimming pools / spas, Agricultural buildings and other difficult environments

JONES REBAR CLAMP

Use to connect solid copper bond/ground wire to rebar
Compact for easy coverage in gunite pool wall
For use on copper wire only

CATALOG NUMBER	WIRE RANGE	REBAR SIZE NO.	REBAR SIZE INCH
J 29-DB	8 - 6 SOL	#3	3/8
J 30-DB	8 SOL- 4 STR	#4	1/2
J 31-DB	6 SOL - 2/0 STR	#5	5/8
J 32-DB	6 SOL - 4/0 STR	#4,5,6	1/2, 5/8 ,3/4



Direct Burial

UL Listed and CSA Certified for direct burial in earth or concrete. Not for use on epoxy coated rebar.

BEAVER TOOTH LUG™ Lay-in Lug

Use to connect copper/ground wire to equipment
Copper body, stainless steel screw
For use on copper wire only

CATALOG NUMBER	WIRE RANGE	MOUNTING BOLT SIZE
BTL 4-DB*	#4 - 14 AWG	#10
BTL 414-DB*	#4 - 14 AWG	#1/4

* For tin-plating, add suffix "P". Tin plate for use on aluminum pool structure.

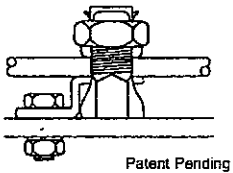
Direct Burial

UL Listed 486D, CSA Certified for direct burial in earth or concrete

BUGLUG™ Lay-in Lug

Use to connect copper/ground wire to equipment
Heavy duty silicon bronze and copper, tin plated
For use on copper wire only

CATALOG NUMBER	WIRE MAX	MOUNTING BOLT SIZE
BL 6	#6	#10
BL 4	#4	1/4
BL 2	#2	1/4
BL 1/0	#1/0	5/16



Patent Pending

BL Series is tin-plated for use on aluminum pool structure.
Use of oxide-inhibitor is recommended.

Direct Burial

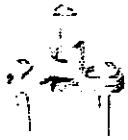
CSA NRTL/C Certified for direct burial in earth and concrete

PIPE/REBAR CLAMP

Cast bronze body
Silicon bronze screws
For use on copper wire only
Lay-in feature allows continuos run installation

CATALOG NUMBER	PIPE SIZE IPS	REBAR SIZE	REBAR INCH	CONDUCTOR RANGE MIN - MAX
G1R-DB	1/2 - 1"	#3 - #8	3/8 -1"	#10 - 2 AWG

Direct Burial



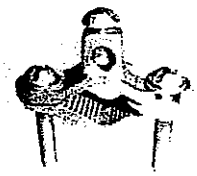
UL listed for direct burial in earth or concrete on copper wire.

PIPE CLAMP

Cast bronze body
Silicon bronze screws
For use on copper wire only

CATALOG NUMBER	PIPE SIZE IPS	CONDUCTOR RANGE MIN - MAX
G1S-DB	1/2 - 1"	#10 - 2 AWG

Direct Burial



UL Listed and CSA Certified for direct burial in earth and concrete

MESH-BUGS™

Use to connect copper conductor to wire mesh
Copper-alloy bronze construction
Sizes available for rolled (#10) and heavy (#6) mesh
UL listed for direct burial in earth and concrete

CATALOG NUMBER	MESH WIRE SIZE	COPPER COND. RANGE (AWG)
A2-DB	#10	#12STR - #8STR
A5-DB	#6	#8SOL - #4STR

Direct Burial

UL listed for direct burial in earth or concrete on copper wire.

GROUND ROD CLAMP

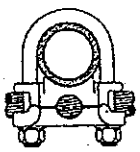
Cast bronze body
Silicon bronze bolt
For use with copper wire only
Direct burial in earth and concrete

Direct Burial

UL Listed and CSA Certified for direct burial in earth and concrete

U-BOLT CLAMP

Use to connect wire to pipe, rod, or fence posts parallel or perpendicular to pipe
Cast bronze body
Silicon bronze hardware
For use on copper wire only



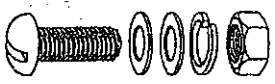
Direct Burial

CSA Certified for direct burial in earth and concrete

STAINLESS STEEL HARDWARE

Use to mount BTL4-DB and BL Series lay-in lugs to equipment
Sets of stainless steel hardware
Available in #10-24 and 1/4-20 sizes

Direct Burial



GREAVES CORPORATION
www.greaves-usa.com
Guilford, Connecticut 06437
Phone 203-453-4304 Fax 203-453-8343

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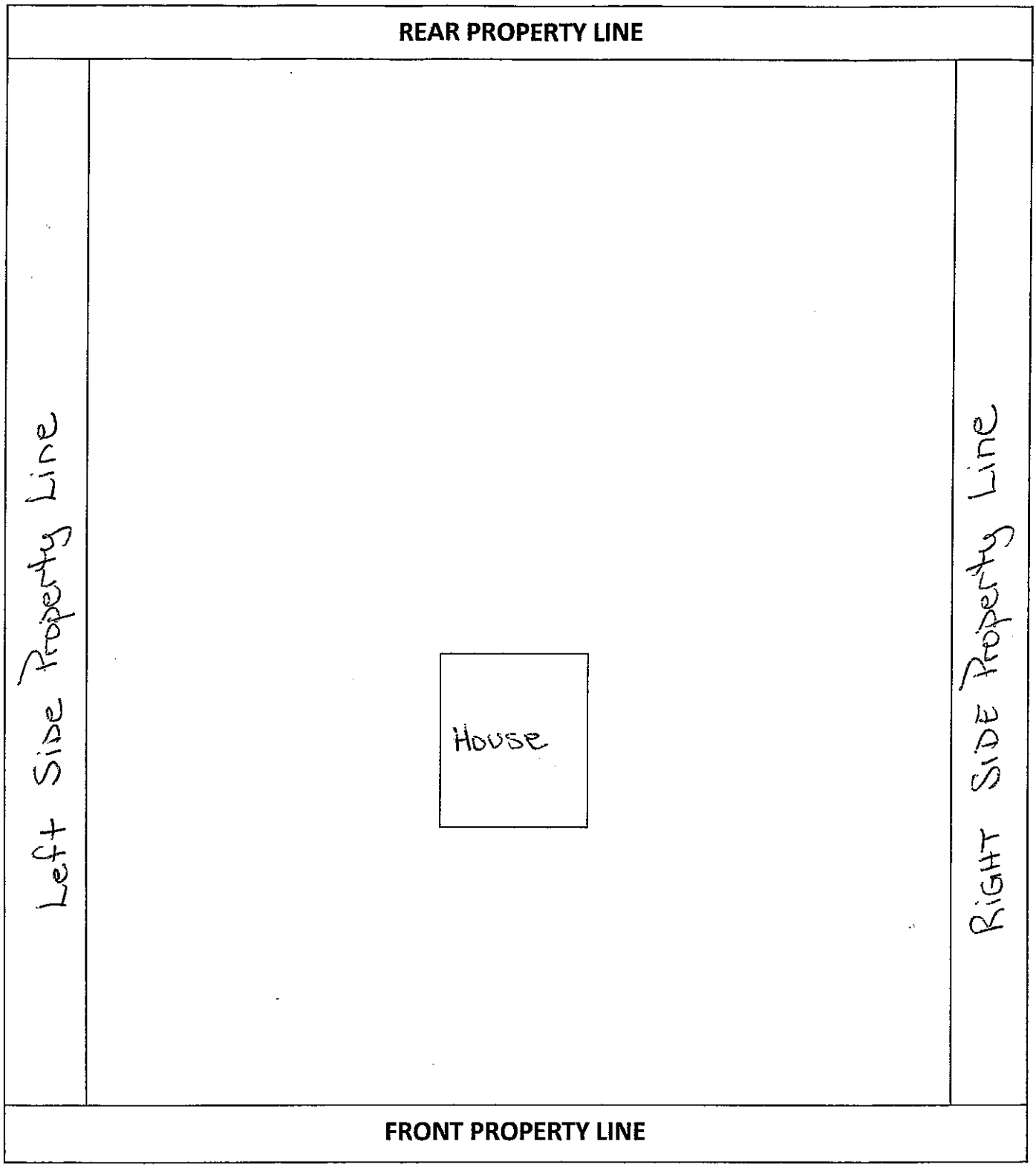

STREET NAME: _____

SIGNATURE: _____ **DATE:** _____

IF CORNER LOT IDENTIFY BOTH STREETS

ALL ACCESSORY STRUCTURES/USES ALLOWED IN REAR YARD ONLY