



**Pool Construction Plan Review
Chapter 511-3-5**

Pool Name: _____ Date: _____

Pool Address: _____

Contractor's Name: _____

Design Professional Name: _____ GA License #: _____

General contractor or representative who will provide plans and data for construction items not performed by pool contractor (bath house, deck, fence, etc.) Written and oral instructions on operation and maintenance of the pool and equipment shall be provided to the owner upon completion: [.22(14)]

Company Name: _____

Phone #: _____

Environmental Health Specialist: _____

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I. Permit and Application Data: A permit is required to build, alter, or remodel a public swimming pool. A construction permit is valid for 12 months from date of issue. Changes to plans are approved in writing only. Prior to the issuance of any permit under these rules, the applicant shall provide written evidence of satisfactory compliance with the provisions of the Chapter and all other laws which apply.[.03(1)(c)]

- _____ 1. Applications submitted.
- _____ 2. Wastewater and backwash disposal approved.
- _____ 3. Water supply approved.
- _____ 4. Plan review fee paid.
- _____ 5. Zoning approved.

II. Pool Data:

Volume (gallons): _____ Water Surface area (sq. ft.): _____

Minimum depth: _____ Maximum depth: _____ Perimeter (linear feet) : _____

Deck Area (sq.ft.): _____ Theoretical Peak Occupancy: _____

III. Pool Construction:

_____ 1. Pool surface is slip resistant, rigid, puncture and tear resistant. [.04(5)]

Material used: _____

_____ 2. A smooth, easily cleaned surface finish is applied or attached. The color of the interior is white or light pastel. [.04(8)(9)]

_____ 3. A pool with a metal based shell provides sacrificial anodes to reduce corrosion. [.04(9)(e)]

_____ 4. No protrusions extensions, or other means of entanglement or other obstructions entanglement or obstructions in the swimming area which can cause the entrapment or injury of the bather. [.05(1)(a)]

_____ 5. Peak theoretical occupancy load calculated meets the rule: _____. [.05(12)(b)]

_____ 6. The point of slope change of the pool from the active area to the shallow area and from the shallow area to the deep area and at the points of separation of diving, slide and amusement areas are visually set apart with a rope and float line, depth markers and a 4" minimum width row of floor tile, or similar means of a color contrasting with the bottom. [.05(4)(b)]

_____ 7. All slopes are uniform. Floor bottom slopes:
< 5' deep = maximum 1':12' [.05(1)(b)]
>5' deep = maximum 1':3' [.05(1)(d)]

_____ 8. Depth markers installed on the vertical pool wall and on the deck within 18 "of waters' edge. Depth markers installed at the minimum and maximum depths and at all points of slope change. Arranged uniformly of both sides and ends of the pool. Minimum 4" high numbers and letters on

tile(s). Numbers spaced at intermediate increments of water depth not to exceed 2', nor spaced at distances greater than 25' intervals. .18(3)

- _____ 9. "NO DIVING" marker and the International No Diving Symbol installed on deck within 18" of water's edge. Minimum 4" high letters on tile(s) [.18(12)]
- _____ 10. Diving area designed to comply with rules. [.05(7)]
- _____ 11. Starting platforms installed in a minimum water depth of five feet. [.05(4)(c)1.]
- _____ 12. Two means of entry/exit serving both ends of the pool and deepest portion. [.06(2)]
- _____ 13. Stairs, ladders and recessed treads are slip resistant and comply with rules. [.06(3)(4)(5)]
- _____ 14. Handrails designed to comply with rules. [.06(3)(4)(5)]
- _____ 15. Steps maximum 12" riser height and minimum 10" horizontal depth. [.06(3)(a)(b)]
- _____ 16. Offset ledge, underwater seat bench, swimout and tanning shelf comply with rules and outer 2" edges tiled in a contrasting color. (No play features/devices designed in the area.) [.05(8)(9) (10)(11)]
- _____ 17. Deck minimum 4' continuous unobstructed width surrounding pool. Deck is minimum 4' wide behind and on sides of diving equipment and waterslide stairs. [.06(1)(f)(g)]
- _____ 18. Deck is slip resistant and easily cleanable. Material used: _____ [.06(1)(a)]
- _____ 19. Coping is slip resistant and easily cleanable. [.06(1)(b)]
- _____ 20. Deck is sloped to drain to perimeter areas or deck drains. [.06(1)(q)]
- _____ 21. Proper backflow protection on all connections between the potable water supply and swimming pool. [.15(2)]
- _____ 22. The over-the-rim spout, if used, is located under the diving board, adjacent to a ladder or otherwise properly shielded. The open end does not have sharp edges and does not protrude more than two inches beyond the edge of the pool and provide appropriate air gap. [.15(3)]

IV. Hydraulics Analysis and Circulation Components:

- _____ 1. Hydraulics analysis form submitted and signed. (Review attached hydraulics analysis form) [.03(2)(f)]
- _____ 2. The circulation system is designed to give the proper turnover rate at maximum pressure flow of the filter in dirty media conditions. [.07(1)(a)(b)]
Pool type: _____ Turnover Rate Required: _____
- _____ 3. Circulation system components that require replacement or servicing are accessible for inspection, repair or replacement.[.07(1)(f)]
- _____ 4. For spas, a minute timer, not exceeding 15 minutes, connects to the agitation system.[.07(1)(d)]
- _____ 5. A pressure or vacuum gauge is provided in the circulation system in an easily readable location. [.07(4)(a)]
- _____ 6. A flow meter capable of measuring 1 1/2 times the design flow rate within (+/-10%) is installed in the return line according to the manufacturer specifications. [.07(4)(b)]
- _____ 7. Filter(s) comply with NSF 50 Standard. [.08(1)(a)]
- _____ 8. Pressure type filter(s) provide a means to release internal pressure. [.08(2)]
- _____ 9. A sight glass installed on the waste discharge line of pressure filter(s) to observe backwashing. [.08(5)]
- _____ 10. Equipment piping marked with directional flow arrows and identified by its use and venue. [.08(6)]
- _____ 11. Wall or floor inlets and fittings are adequate in design, number and location: 1 inlet per 300 sq. ft. of pool surface area or 1 every 20' of pool perimeter whichever is >. A minimum of 2 inlets are required regardless of size. [.10(1)(c)]
- _____ 12. Floor inlets must be used on pools > 50' in width. Inlets must not be more than 20' apart; a row of inlets within 15' of the side walls and if used in combination with wall returns the row of inlets must be within 25' of the side wall [.10(1)(c)(2)]
- _____ 13. At least 2 main drains are provided. The main drains covers are at least 3' apart; no more than 20' on center and 15' from the side walls. [.10(2)]

- _____ 14. The main drain covers comply with ANSI/APSP-16. A properly manufactured sump is attached. [.10(4)]
- _____ 15. The vacuum line is protected with a self-closing, self-latching fitting that complies with IAMPO SPS 4. [10(7)]
- _____ 16. Surface skimmers comply with NSF 50 Standard. At least 2 skimmers for the first 400 sq. ft. or fraction thereof of water surface area and 1 skimmer for each additional 400 sq. ft. [.11(3)]

V. Disinfection and Chemical Control:

EPA registered disinfectant: _____.[16(1)]

Disinfection Equipment/Chemical feeders

- _____ 1. Disinfection equipment complies with NSF Standard 50. [.16(1)]
- _____ 2. Disinfectant feeder delivers sufficient quantity; Indoor pool: 2.5 lbs/10,000, Outdoor Pool: 4lbs/10,000 [.16(2)] (If stabilized, outdoor pools may use 2.0 lbs/10,000)
- _____ 3. Chemical and erosion feeders installation location downstream from the filter and heater. [.16(3)(a)]
- _____ 4. If a chemical feeder is equipped with its own pump, it shall be installed so it introduces the gas or solution downstream from the heater and, if possible, at a position lower than the heater outlet fitting. [.16(3)(b)]
- _____ 5. The injection point of disinfection chemicals located before any pH control chemical injection point. [.16(3)(h)]
- _____ 6. Chemical feed pumps wired so they cannot operate unless the pump is running. [.16(3)(c)]
- _____ 7. Automated controller (if used) wired so they cannot operate unless the filter and chemical feed pump is running. [.16(3)(c)]
- _____ 8. Increased risk pool disinfection and pH feeders monitor and delivery chemicals through an automated controller. .16(2)(a)
- _____ 9. Increased risk pool installed a NSF approved supplement disinfection treatment system. [.16(2)(b)]

Gas Chlorination- Prohibited in facilities constructed after Jan. 2017. [.16(5)]

VI. Lighting, Electrical and Heaters:

Indoor pools

_____ 1. Water surface and deck area: 30 foot-candles; [.12(1)(a)1.]

Outdoor pools

_____ 2. Deck area: 10 foot-candles. [.12(1)(a)2.]

_____ 3. Water surface area with under water lighting: 10 foot - candles.
[.12(1)(a)3.]

_____ 4. Water surface area without under water lighting: 15 foot - candles.
[.12(1)(a)4.]

Underwater lighting

_____ 5. If underwater lighting is used, a minimum of 8 lumens per sq. ft. of water surface area is provided. No dimmable or color lighting[.12(1)(b)1.]

Outdoor pools with no night swimming

_____ 6. Surface of pool and deck area: 3 foot - candles. [.12(2)]
Motion detector lights are acceptable.

Other electrical requirements

_____ 7. No switches, starters, panel boards or similar electrical equipment is in areas readily accessible to bathers while in the pool or on the designated deck area. [.12(3)]

_____ 8. No overhead wiring is within 20 feet of the pool enclosure. No electrical outlets are within 10 feet of the pool edge. [.12(4)(5)]

Heaters

_____ 9. Sized based on manufacturer's recommendations. [.13(1)]

_____ 10. Heater is installed on surface that is sufficient to support the equipment weight when full of water. [.13(3)(a)]

VII. Dressing Facilities and Sanitary Facilities:

Dressing facilities provided elsewhere on the general premises: __Yes __No

- _____ 1. A minimum of 1 shower for each sex for facilities less than 4000 square feet of water surface area. One additional shower head for each added for each additional 4000 square feet or fraction thereof. [.19(1)(d)]
- _____ 2. Hot and cold water is provided. [.19(1)(e)]
- _____ 3. Floors are free of joints or openings and continuous throughout area. Floors are slip resistant and easily cleanable. Floor drains are provided. Floors are sloped not less than 1/4" per foot toward the drains. [.19(1)(f)]
- _____ 4. Hose bibbs (3/4") provided for flushing down the dressing room interior. [.19(1)(g)]

Lavatories and Toilets

- _____ 5. Lavatories and toilets located no more than 300 feet from the entrance; no more than 200 feet for an increased risk pool. [.19(2)(a)]
- _____ 6. For male occupancy; 1 water closet, 1 lavatory and 1 urinal for first 50 male users with 1 additional water closet, lavatory and urinal for each additional 150 male users or fraction thereof. [.19(2)(b)]
- _____ 7. For female occupancy; 2 water closets, 2 lavatories for the first 50 female users with 1 additional water closet and lavatory provided for each additional 100 female users or fraction thereof. [.19(2)(c)]
- _____ 8. Theoretical peak occupancy divided evenly for these calculations: fifty percent male and fifty percent female. [.19(2)(a)]

VIII. Safety Features and Markers:

- _____ 1. Enclosed by a barrier to prevent entry to pool area when closed; top of barrier at least 4' above grade. Vertical clearance between the bottom of the barrier and the surface shall not exceed: 4 inches for a solid surface and 2 inches for a non-solid surface. [.18(11)(a)]
- _____ 2. Openings in the barrier will not allow passage of 4" diameter sphere. Solid barrier shall not contain indentations and protrusions. [.18(11)(b)(c)]
- _____ 3. Barriers composed on horizontal and vertical members with the distance between the horizontal members is less than 45": horizontal members are

located on the swimming pool side of the fence and spacing between the vertical members shall not exceed 1 3/4". [.18(11)(d)]

- _____ 4. Barriers composed on horizontal and vertical members with the distance between the horizontal members is 45" or more: spacing between the vertical members shall not exceed 4" [.18(11)(d)]
- _____ 5. Chain length fence and decorative cut-outs do not exceed 1 3/4" width. [.18(11)(e)(f)]
- _____ 6. Access gates comply with the same requirements as barrier and have a locking device. Pedestrian gates are self-closing and self-latching. Where the release mechanism of the self-latching device is less than 54" from the bottom of the gate, the release mechanism is located on the pool side of the gate at least 3" below the top of the gate and there is no opening greater than 1/2" within 18" of the release mechanism. Gates shall open away from the pool. No direct access from any dwelling into the pool enclosure. [.18(11)(h)]
- _____ 7. "No Diving" in 4" letters and the universal international symbol visible at the edge of the deck for water 5' in depth or less, placed beside the depth markers. [.18(12)(a)]
- _____ 8. Warning signs provided as required in rules: "WARNING – NO LIFE GUARD ON DUTY" and "SUPERVISE CHILDREN CLOSELY": 4" letters
Pool Risks Sign: 1" letters [.18(12)(b)]
- _____ 9. Lifesaving equipment: a 12' long pole including hook, a ring buoy, minimum 15" diameter, attached to a throwing rope at least 1/4" diameter that is 1 1/2 times the width of the pool or 50' in length, whichever is less will be provided. [.18(10)(a)]
- _____ 10. An operable, hard-wired, conventional telephone line or continuous powered source, weatherproof phone installed within the pool enclosure. Phone is capable of connecting to 911 and electronically transferring an automatic number identification and automatic locator identification of the pool emergency phone to public safety, if available. .18(10)(c)
- _____ 11. A 911 sign or the names and phone numbers of the nearest police, fire, ambulance service or rescue unit. [.18(10)(c)]
- _____ 12. Emergency shutoff switch provided for all pool and spa motors that provide power to the circulation system and hydrotherapy or agitation system pump. The switch is clearly labeled; accessible and in plain view. [.18(8)]

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IX. Other Facilities:

- _____ 1. One rinse shower provided on the pool deck. Water used for the rinse shower may be ambient temperature. [.18(17)]
- _____ 2. At least 1 drinking fountain is available to users at the pool site. [.18(16)]
(An exemption may apply in some settings.)

X. Local Health Department:

Plan Review Notes:

[illegible]

Plan Reviewer's Decision: _____ Approved _____ Disapproved

Plan Review Deficiency Letter: _____ Date: _____ or _____

Construction Permit #: _____ Date: _____

Signature: _____
Environmental Health Specialist