



City of Santa Barbara
Building & Safety Division
**Residential Pool and Spa Plan
Submittal & Barrier Requirements**

Community Development
630 Garden Street
805-564-5485

General Requirements:

- ❑ This handout is a summary of Private Swimming Pool and Spa building code requirements. Please review Section 3109 of the 2016 CBC (as referenced by Appendix V of the 2016 CRC) and SBMC Ordinance #5780 for detailed requirements. For Public Pool Barrier Requirements see Section 3109 of the 2016 CBC. Please note: Santa Barbara County Public Health Department must approve all Public Pools and Spas.
- ❑ The minimum paper size is 18" x 24", maximum paper size is 36" x 42".
- ❑ Plans must be complete, accurate, and drawn to scale.
- ❑ Provide three sets of plans with numbered sheets, a sheet index and a sheet count.
- ❑ Pools and Spas are subject to all applicable requirements in the Residential Plan Submittal Requirements handout. Please see that document for a more detailed list of the information required on plans and site plan requirements.

Barrier Requirements {CBC 3109}:

Where new fencing is required because of a pool or spa installation, the permit for that fencing shall be obtained prior to, or concurrently with, the building permit for the pool. No water shall be placed in any pool or spa prior to the installation of safeguards specified on this handout and the approval of all associated work. The protective fencing enclosure is required around the entire pool, built-in spa, portable spa or yard as described below.

- ❑ The enclosure must be at least five-feet (60") above grade measured on the side that faces away from the pool. Openings, gaps, or holes shall not allow the passage of a four-inch sphere.
- ❑ The maximum vertical clearance from the ground to the bottom of the enclosure is two inches.
- ❑ The outside surface must be free of protrusions, cavities, or other physical characteristics that would serve as handholds or footholds that could enable a child below the age of five years to climb over.
- ❑ All gates or doors opening through the enclosure shall open away from the pool and be equipped with self-closing and self-latching devices placed no lower than 54 inches above the ground.
- ❑ Where the release mechanism of the self-latching device is located less than 54 inches above the ground, (i) the release mechanism shall be located on the pool side of the barrier and (ii) the gate and the barrier shall have no opening greater than ½ inch within 18 inches of the release mechanism.
- ❑ If a portion of the residence with openings is part of the barrier, at least one of the following additional drowning prevention features shall be provided as well:
 - (a) The pool shall be equipped with an approved power safety pool cover that meets performance standards of ASTM F1346.
 - (b) The residence shall be equipped with exit alarms on those doors providing direct access to the pool or spa.
 - (c) All doors providing access to the pool shall be equipped with a self-closing, self-latching device with a release mechanism placed no lower than 54 inches above the floor.
 - (d) Swimming pool alarms that, when placed in pools, will sound upon detection of accidental or unauthorized entrance into the water. These pool alarms shall meet and be independently certified to the ASTM Standard F 2208 "Standard Specifications for Pool Alarms" which includes surface motion, pressure, sonar, laser and infrared type alarms.
 - (e) Other means of protection, if the degree of protection afforded is equal to or greater than that afforded by any of the devices set forth in items "a-d", and have been independently verified by an approved testing laboratory as meeting standards for those devices established by the ASTM.

Barrier Exceptions {CBC 3109.4.1}:

- ❑ A residential swimming pool with a power safety cover or a Spa/Hot Tub with a safety cover which complies with ASTM F1346 (hard, locking cover) shall be exempt from the Barrier Requirements of Section 3109.4.1 through 3109.4.3 of the 2016 CBC. (If this exemption is used, no water shall be placed in any pool or spa prior to the installation of temporary fencing or other acceptable safety barrier.)

Plumbing Requirements:

- ❑ Provide pool piping schematic layout throughout site with all pipe sizes shown and types of material to be used. {CPC 103.3}
- ❑ Provide identification of the pool water piping fill line. {CPC 103.3}
- ❑ Provide anti-siphon devices on unprotected hose bibs on property. {CPC 603.5.7}
- ❑ Discharge and drainage water from pools and spas must drain into the community sewer system.
- ❑ Provide on the fill line or nearest adjacent hose bib a Reduced Pressure Principle Assembly per {CPC 603.5.20}
- ❑ Each outlet on a non-potable water line which may be mistakenly used for drinking or domestic purpose shall be posted: "CAUTION NONPOTABLE WATER, DO NOT DRINK" {CPC 601.3.2}
- ❑ Gas piping schematic shall be drawn with BTU demand, Max linear feet, size of piping, and point of connections. {CPC 1208.1}
- ❑ Provide California Energy Form CEC-CF2R-PLB-03-E filled out in entirety and scanned into plans. {CEnC & CBC 3109.4.4.8 (3)}
- ❑ Provide an approved method for draining the pool & spa into City sewer system. This can be by means of a 3" clean out and pool system drain with a 4" air gap to clean out.

Electrical Requirements:

- ❑ Indicate on the plot plan the location and amperage of any existing or proposed electrical service. Show the location of any utility pole(s) and service entrance conductors. {CEC 220, 680.8, 680.10}
- ❑ Indicate on plot plan any existing overhead wires and their height above the water. {CEC 680.8}
- ❑ Show required workspace in front of all electrical equipment. {CEC 110.26}
- ❑ Show feeder(s) to sub-panel(s). Indicate raceway and conductor sizes and types. {CEC 215 & 310}
- ❑ Provide a panel schedule or branch circuit diagram and show all over current devices for pumps, lights and controllers including relays and timers. {CEC 240, 310, 408.4 & 680.9}
- ❑ Provide an equipment schedule, including any underwater luminaires, with equipment voltages and amperages. {CEC 210, 220, 430 & 680.9}
- ❑ Indicate all items to be connected together with #8 AWG bare solid copper conductor to establish equipotential bonding including the reinforcing steel, handrails, ladders, motors, fixture shells, etc. Stipulate what element with minimum conductive surface area of 9 square inches will be in direct contact with the pool water. {CEC 210, 310, 430, 680.26 & 680.9}
- ❑ Provide an accessible means to disconnect power from the motors and controllers that is within sight from the pool, spa, or hot tub equipment, at least 5 feet horizontally from the inside walls of the pool, spa, or hot tub. {CEC 430.102 680.12 & 680.40}
- ❑ Provide and show the location on the plan of at least one GFCI protected receptacle outlet located between 6 and 20 feet from the inside wall of a pool, hot tub or spa installed outdoors and between 6 and 10 feet for a hot tub or spa installed indoors. {CEC 680.22, 680.43}
- ❑ Indicate the type of raceway(s) to be installed for any underwater luminaires. {CEC680.23}
- ❑ Show branch circuit conduit and wiring sizes and types to all pool related equipment, motors, lighting, receptacle outlets, lighting receptacle outlets, pool cover motors and controllers, etc. Show the quantity and size(s) of conductors in each conduit. {CEC 210, 310, 430, 680.2 & 680.9}
- ❑ Note on the plans that branch circuitry shall be installed as shown on the approved plans and not be combined in larger conduits. {CEC 300.17, 310.15, 680.23(F)(3)}
- ❑ Show GFCI protection for the electrically operated pool cover and that its controller is within sight. {CEC 680.27(B)}
- ❑ GFCI protection is required for all single-phase pool pump motors connected by cord or hard-wired to 15 or 20 amp branch circuits operating at 120 volt through 240 volts. {CEC 680.21(C)}
- ❑ Show all exterior lighting fixtures within 10 feet of pool or spa. All lighting of the pool area shall be so hooded that the light does not shine towards adjacent properties and public right-of-ways. {CEC 411.4(B), 680.22(B)}
- ❑ Show the elevations(s) of any underwater luminaires in relation to normal water level. {CEC 680.23}
- ❑ Show the location(s) of any junction boxes for pool / spa lighting connected to underwater luminaires. Indicate distance from inside face of pool / spa and minimum elevation above ground level, pool deck or maximum water level. {CEC 680.23, 680.24}
- ❑ Show the location on the site plan of switch, timeclock or other device controlling pool / spa lighting. {CEC 680.22}
- ❑ Show GFCI protection for any branch circuit serving pool / spa lighting operating at more than 15 volts. {CEC 680.2}
- ❑ Note that all wet-niche luminaires shall be removable from the water for inspection, relamping, or other maintenance. The location of the forming shell and the length of cord in the forming shell shall permit personnel to place the luminaire in a dry location that is accessible without entering the water. {CEC 680.23(B)(6)}