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## INSTRUCTIONS TO ACCOMPANY AN APPLICATION FOR A PERMIT TO CONSTRUCT A PUBLIC SWIMMING POOL

California Health and Safety Code §116038 and California Code of Regulations §65505 state that a person proposing to construct, reconstruct or alter a swimming pool, auxiliary structure or replace equipment shall submit legible plans and specifications to the enforcing agent for review. Written approval of the plans is required prior to the issuance of any building, plumbing, electrical permits or construction.

The Marin County Environmental Health Services will process applications for approval of public swimming pool/or spa plans submitted to this office in the following described manner:

1. One (1) copy of an architectural or similar professional drawing of the BUILDING SITE must be submitted. This plan shall be drawn at a scale of not less than 1/8 inch equals one (1) foot. Or, one (1) centimeter equals one (1) meter. This drawing shall show all structures on the site which features surrounding pool and deck area. This drawing must be signed by the general contractor or the developer.
2. Three (3) copies of the POOL PLAN must be submitted. This plan submitted for approval shall be drawn to a scale of one (1) centimeter equals 0.48 meter or one ¼ inch equals one 1 foot. These plans must include the detail drawings or sketches of deck, coping, main drains, steps, ladder, skimmers, lights, markers, etc. The details of these features shall be drawn to scale.
3. EQUIPMENT SPECIFICATIONS, brochures and informational materials shall be submitted along with the above-mentioned requirements for the pool recirculation system (plumbing design) and disinfection system. This part also requires manufacturer's specifications for the pumps, filters, chlorinator, and heating systems.
4. The enforcing agent may require the submission of additional information as may be required to determine the compliance of plans and specifications submitted for approval.
5. COMPLETELY FILL OUT THE ATTACHED APPLICATION form and submit along with the plan materials. Writing "per code" or "by others" is unacceptable.
6. Appropriate fee shall be paid for plan review and evaluation.

## SWIMMING POOL PLAN CHECK GUIDELINES

The California Health and Safety Code, California Code of Regulations, and California Building Code require any person proposing to construct, remodel or alter a public swimming pool, auxiliary structure or equipment to submit plans and specifications to Environmental Health Services (EHS). Plans must be approved before a building permit can be issued or, where no building permit is required, before any construction or changes take place.

The following guidelines summarize highlights of the Pool Codes, but are not in any way intended to substitute for a good working knowledge of the Pool Codes, which are available at EHS.

The following information is required when a pool is being constructed or remodeled:

Pool plans must be drawn to scale (minimum  $\frac{1}{4}$  inch = 1 foot) in a professional manner and include the following:

1. Name, address and telephone number of owner, general contractor and architect.
2. Address of the pool to be constructed.
3. Name, address and telephone number of the pool company or pool builder.
4. Scaled plot plan showing pool location in relationship to all buildings, water wells or septic systems on the property. Smaller scale is acceptable on plot plan only.
5. All calculations must be shown on the attached sheet or on the plan itself.
6. Complete the attached data sheet.
7. Detailed decking, fencing and gate plans are required before plans will be approved. Stating "By others" or "per code" will not be accepted.
8. Floor plan of equipment room or area (drawn to scale).
9. Floor plan of restroom and shower facilities (when required).

Restroom facility plans (when required):

1. Separate restrooms for men and women with access for the handicapped. Handicap requirement is enforced by the Building Department.
2. Provisions for privacy.
3. Smooth, moisture resistant wall finishes throughout.
4. Floor must be slip resistant and extend upward onto wall at least 5" with an integrally coved base and shall slope to floor drains at  $\frac{1}{4}$ " per foot.
5. Showers and lavatory facilities shall be provided with hot and cold running water (110 degrees maximum temperature).
6. Lavatories shall be provided with single service soap and towel dispensers.
7. Refer to the code for the number of restroom fixtures required.
8. Carpet is not allowed in toilet or shower rooms.

PROFILE VIEW (longitudinal section) drawn to a scale of ¼ inch = 1 foot through the center line of the pool and must include the following data:

1. Overall length dimension.
2. Distance from shallow end wall to the point of break in bottom slope from shallow to deep.
3. Distance from break in bottom slope to main drain (maximum depth).
4. Distance from main drain (maximum depth) to deep end wall.
5. Depth at shallow end wall (maximum depth of 3½ feet at base of steps).
6. Depth at break in bottom slope, if applicable.
7. Depth at main drain.
8. Location of safety line anchors.
9. Height of step risers and width of treads.
10. Design and location of handrail(s). Include handrail profile view. (Upper rail must be at least 28 inches above deck).
11. Color of pool surface (must be white).

TOP VIEW (plan view) must indicate the following data:

1. Diving board (if any) location and distance from board center to side walls and any other diving board.
2. Location, size and length of all pool plumbing including: return lines, main drain lines, suction lines, fill lines and skimmers.
3. Pool light location(s). Ground-fault circuit interrupter may be required for all dry-niche and wet-niche lights installed at pool location. See pool code, California Health and Safety Code § 116049.1 for details.
4. Location of ladder and grab rails, steps, and safety hand rails.
5. Location of equipment room or area, piping line size and required equipment location.
6. Scaled drawing of pool equipment room (½ inch = 1 foot). Indicate 90 and 45 degree elbows in piping.
7. Fill line must be permanently installed and provided with an approved backflow prevention device.

EQUIPMENT SPECIFICATIONS: Size for 6 hour turnover rate.

1. Filter type, make, and model number and square footage of filter area. (Provide specification sheets for all equipment).
2. Pump and booster pump, make, model number and horsepower. Include pump performance curve from manufacturer.
3. Skimmer make and model number with equalizer line and gate valve. Note: skimmer lines cannot be connected to the main drain.
4. Chlorinator or equivalent disinfectant feeder make and model number.
5. Flow meter, make, model number and location on the piping.
6. Influent and effluent pressure gauges.
7. Specify method of backwash discharge from filter. If to a sanitary sewer include size and slope of sewer line and sump size, if sump is required.
8. Approved backflow prevention device must be installed on the fresh water fill line at the supply valve.
9. Equipment room floors must be concrete and slope to approved drainage.
10. All equipment shall be easily accessible for inspection and maintenance.

SUPPORTING DATA (Indicate or list the following data):

1. Pool capacity in total gallons.
2. Square footage of pool water surface area.
3. Dimensions of pool: length, width and depth.
4. Pipe size of return lines and suction lines, including piping material to be used.
5. Four feet of paved and unobstructed non-skid decking shall extend completely around the pool (sloped away from pool at  $\frac{1}{4}$  inch per foot to deck drains or other approved means of disposal) including special use pools and wading pools. The distance between any pool and spa must be at least 6 feet, with the decking sloped away from both the spa and the pool at  $\frac{1}{4}$  inch per foot to drain.
6. Depth markers (minimum 3 inches in height) on both sides of the pool at the slope break, minimum and maximum depths, at each end, and on the perimeter of the pool at distances not to exceed 25 feet. If the pool exceeds 20 feet in width, additional, slip-resistant markers shall be located on the edge of the deck next to the pool.
7. Location of hose bibs in the pool area for washing of deck (approved backflow prevention device required).
8. Main drain grates must be screw down type.
9. There must be two return inlets for the first 10,000 gallons and one for each additional 10,000 gallons or fractional part thereof, located a minimum of 18 inches below the water line.

SIGNAGE

1. Where no lifeguard service is provided, a sign stating "Warning – No Lifeguard On Duty" shall be posted in plain view. The sign shall also state "Children Under the Age of 14 Should Not Use Pool Without An Adult In Attendance. (letters no less than 4 inches high).
2. Diagrammatic illustration of artificial respiration procedures shall be posted where clearly visible from the deck.
3. Emergency telephone numbers sign, clearly visible from the deck.
4. Shallow pool: Signs with clearly legible letters not less than 4 inches high shall be posted in a conspicuous place and shall state: "NO DIVING ALLOWED".
5. Where there is no lighting or inadequate pool and deck lighting, there shall be posted a sign stating "NO USE OF POOL ALLOWED AFTER DARK", in letters no less than 4 inches high.
6. A sign stating the maximum occupancy load of the pool (1 bather per 20 square feet of pool water surface area), in letters no less than 4 inches high.

SAFETY EQUIPMENT:

1. One or more rescue poles not less than 12 feet in length with a securely attached body hook.
2. One or more life rings having a minimum exterior diameter of 17 inches readily accessible for use. Life rings shall have attached a  $\frac{3}{16}$  inch line long enough to span the maximum width of the pool. The line shall be stored, when not in use, in such a way to prevent kinking or fouling.
3. Wading Pools: To prevent a suction hazard, a wading pool shall have at least two circulation drains per pump that are hydraulically balanced through one or more "T" fittings, and are separated by at least three feet in any dimension between the drains. Wading pool main drain suction outlets that are less than 12 inches across shall be covered with antivortex grates or similar protective devices. See Health and Safety Code §116064 for further details.

4. First Aid kit, when required.
5. Approved test kit (DPD for free chlorine or other sanitizer) for measuring free chlorine, pH and cyanuric acid (when used).

#### ADDITIONAL REQUIREMENTS

1. All pools must be enclosed by a minimum 5-foot high fence. For the specifics of fence construction requirements, see California Code of Regulations (CCR) §3118B on page 23 of the Pool Codes available at EHS, and page 24 for a schematic of a typical pool fence construction.
2. Handrails, ladders, steps and recessed steps. See CCR §3110B on page 20 in the Pool Codes (available at EHS) for details.
3. Handholds: Every pool shall be provided with handholds (perimeter overflow system, bull-nosed coping, or cantilevered decking) around the entire perimeter installed no greater than 9 inches above the water line. Wading pools are exempted from this requirement. See CCR §3111B on page 21 of the Pool Codes for details.
4. Submit longitudinal section view of coping or cantilever decking drawn to actual scale (1 inch = 1 inch).

#### GAS CHLORINE ROOM

1. See CCR §3122B and CCR §680-12 on pages 25 and 31 of the Pool Codes for details. Pool Codes are available at EHS.



**PUBLIC SWIMMING POOL CONSTRUCTION APPLICATION**

NAME OF POOL: \_\_\_\_\_

POOL ADDRESS: \_\_\_\_\_

OWNER: \_\_\_\_\_ PHONE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

POOL DESIGNER: \_\_\_\_\_ PHONE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

GEN'L CONTRACTOR: \_\_\_\_\_ PHONE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

POOL CONTRACTOR: \_\_\_\_\_ PHONE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

**SWIMMING POOL GENERAL SPECIFICATIONS**

Pool Dimensions (sizes) \_\_\_\_\_ x \_\_\_\_\_ x Depth: \_\_\_\_\_ feet to \_\_\_\_\_ feet

Water Surface Area \_\_\_\_\_ sq. feet

Pool Capacity \_\_\_\_\_ gallons

**FILTRATION EQUIPMENT**

Filter Type: \_\_\_\_\_ Model \_\_\_\_\_ Size \_\_\_\_\_ sq. feet

Pump Type: \_\_\_\_\_ Model \_\_\_\_\_ H.P. \_\_\_\_\_

Filtering Rate: \_\_\_\_\_ gal per min.

Turnover Time: \_\_\_\_\_ hours

**RECIRCULATION**

No. of skimmers \_\_\_\_\_ No. of Inlets \_\_\_\_\_ No. of bottom drains \_\_\_\_\_

Overflow Gutter: \_\_\_\_\_ Flowmeter (Make & Model) \_\_\_\_\_

Filter Backwash water discharged into:

Separation tank? \_\_\_\_\_ Sump? \_\_\_\_\_ Sewer? \_\_\_\_\_

Air gap before sewer connection? \_\_\_\_\_

Water Source: Public \_\_\_\_\_ Private \_\_\_\_\_

**DISINFECTANT FEEDER**

Make and Model \_\_\_\_\_ Type \_\_\_\_\_

**GENERAL CONSTRUCTION**

Shell: Gunite? \_\_\_\_\_ Other \_\_\_\_\_ Finished color \_\_\_\_\_

Contrasting 4 ½ foot depth marking line? \_\_\_\_\_

Slope in shallow end \_\_\_\_\_

**DECK**

Material and finish (describe) \_\_\_\_\_

Slope \_\_\_\_\_ inch/ft. Coping (type) \_\_\_\_\_

Enclosure/Fence of pool: Min. Height \_\_\_\_\_ Max opening size \_\_\_\_\_

Height of Gate Latch \_\_\_\_\_

Artificial covering for pool (type) \_\_\_\_\_

**ANCILLARY AREA AND FACILITIES**

Number of toilets: Men \_\_\_\_\_ Women \_\_\_\_\_

Urinals \_\_\_\_\_ Sinks \_\_\_\_\_

Number of showers: Men \_\_\_\_\_ Women \_\_\_\_\_

Angle jet drinking fountain (location) \_\_\_\_\_

Source of Water: Public \_\_\_\_\_ Private \_\_\_\_\_

Applicant \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_