

COUNTY OF MARIN
ENVIRONMENTAL HEALTH SERVICES

Community Development Agency

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**INSTRUCTIONS TO ACCOMPANY AN APPLICATION FOR A PERMIT
TO CONSTRUCT A PUBLIC SPA 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 SPA POOL PLAN must be submitted. This plan submitted for approval shall be drawn to a scale of one (1) centimeter equals 0.12 meter or one (1) 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.

SPA 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.

Spa plans must be drawn to scale (minimum 1 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 spa to be constructed.
3. Name, address and telephone number of the spa company or spa builder, if applicable.
4. Scaled plot plan showing spa 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 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.

SPA PLAN CHECK GUIDELINES

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

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

1. Overall dimensions. Depth cannot exceed 4 feet.
2. Height of step risers and width of treads.
3. Water depth at bench.
4. Design of handrail(s). A minimum of 28 inches is required above the deck. Include handrail profile.

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

1. Fill line location and size if required (permanently installed).
2. Location and sizes of return lines, main drain lines, skimmers and jet/aeration lines.
3. Spa light location(s). Ground-fault circuit interrupter may be required for all dry-niche and wet-niche lights installed at spa location. See pool code, California Health and Safety Code § 116049.1 for details.
4. Location of equipment room or area, piping line size, and required equipment location in relation to spa location.
5. Spa equipment room drawn to scale of ½ inch = 1 foot. Indicate 90 and 45 degree elbows in piping.
6. Location of handrail(s) and steps.

EQUIPMENT SPECIFICATIONS:

1. Filter type, make, 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.
8. Interior spa finish color may be white or other approved pastel color.
9. Approved backflow prevention device must be installed on the fresh water fill line at the supply valve.
10. Equipment room floors must be concrete and slope to approved drainage.
11. All equipment shall be easily accessible for inspection and maintenance.

SPA PLAN CHECK GUIDELINES

SUPPORTING DATA (Indicate or list the following data):

1. Spa capacity in total gallons.
2. Square footage of spa water surface area (cannot exceed 250 square feet).
3. Dimensions of spa: length, width and depth (depth cannot exceed 4 feet).
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 around a minimum of 50% of the spa to include the stair area. There must be a minimum 6 feet between a spa and another pool, sloped away from both the spa and the pool at ¼ inch per foot to drain.
6. Depth markers on two sides at or above water level.
7. Location of hosebibs in the spa area for washing of deck (approved backflow prevention device required).
8. Spa drain grates must be screwdown type. Recirculation outlets for a spa shall be either a safety type which cannot be completely covered by any part of the body, or shall be installed in duplicate so as to prevent a suction hazard to bathers.

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 spa 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 spa pool (1 bather per 10 square feet of spa water surface area), in letters no less than 4 inches high.
7. A precaution sign with clearly legible letters shall be posted in a prominent place near the entrance to a spa pool which shall contain the following language:

CAUTION

- Elderly persons, pregnant women, infants and those with health conditions requiring medical care should consult with a physician before entering a spa.
- Unsupervised use by children under the age of 14 is prohibited.
- Hot water immersion while under the influence of alcohol, narcotics, drugs or medications may lead to serious consequences and is not recommended.
- Do not use alone.
- Long exposure may result in nausea, dizziness, or fainting.

SPA PLAN CHECK GUIDELINES

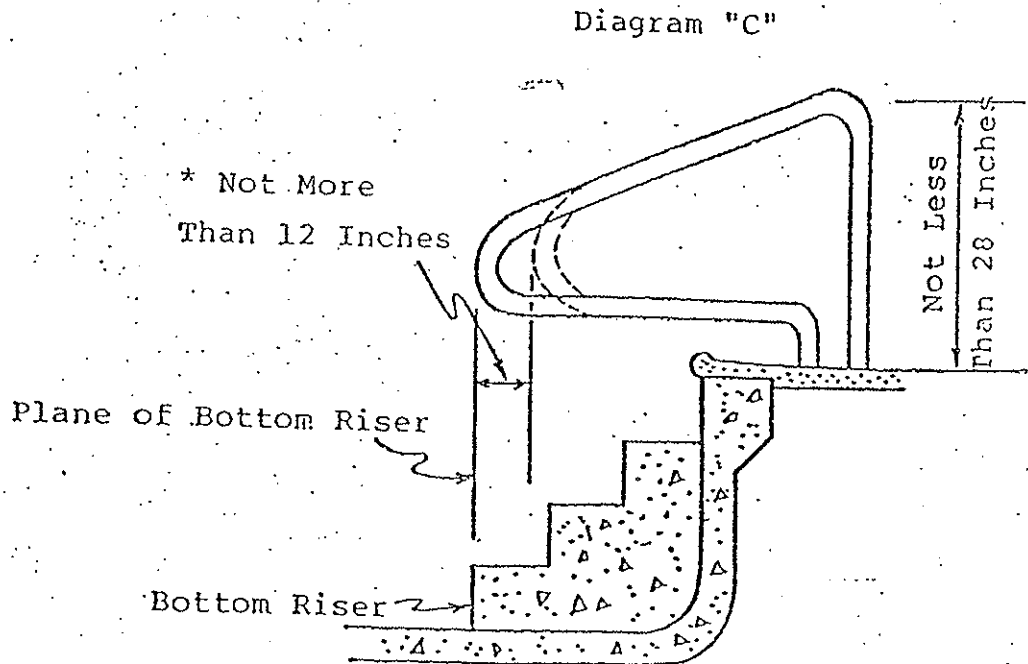
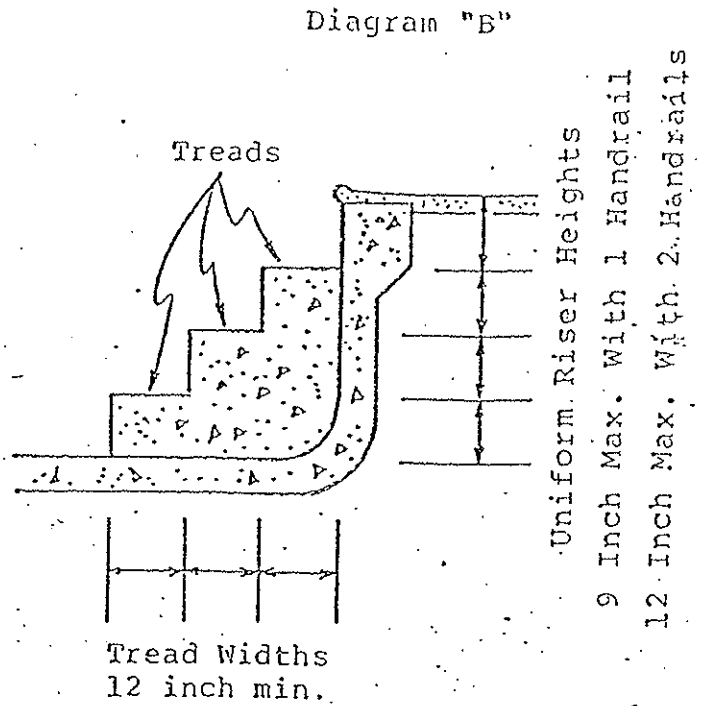
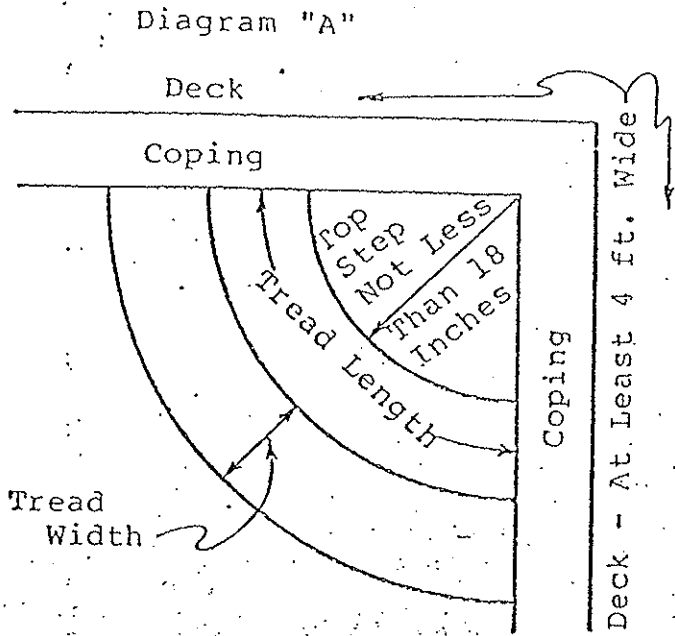
ADDITIONAL REQUIREMENTS

1. All spas must be enclosed by a minimum 5 foot high fence. For the specifics of fence construction requirements, see California Code of Regulations §3118B on page 23 of the Pool Codes available at EHS, and page 24 for a schematic of a typical pool fence construction.
2. The spa must be on a separate filter system from any other pool. The filter and recirculation system must be designed to achieve a 30 minute turnover rate.
3. Step treads must be a minimum of 12 inches wide. Top curved steps must be at least 18 inches wide.
4. Two safety handrails must be provided on steps with 12 inch risers. If only one handrail is provided, step risers cannot exceed 9 inches in height.
5. The bench edge and steps must be edged with dark-colored, slip resistant tile.
6. The water depth over the bench must not exceed 24 inches.
7. The booster (jet) and recirculation systems must be independent of each other and not interconnected in any manner. Place the circulation system on a separate time clock capable of operating on a 24-hour basis. The jet system switch is for a limited time period with control by spa users.
8. One clearly labeled emergency shut-off switch for control of both the recirculation system and jets shall be installed adjacent to the spa.
9. The water temperature of a spa must not exceed 104°F (40°C).

Dimensional Determinations Interpreted

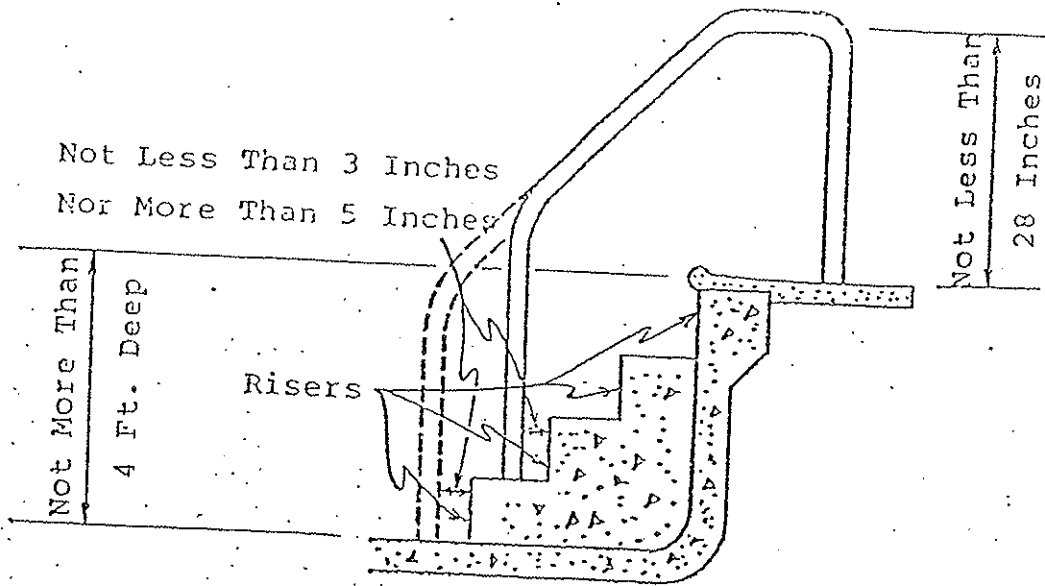
From Section 2-9015

Title 24



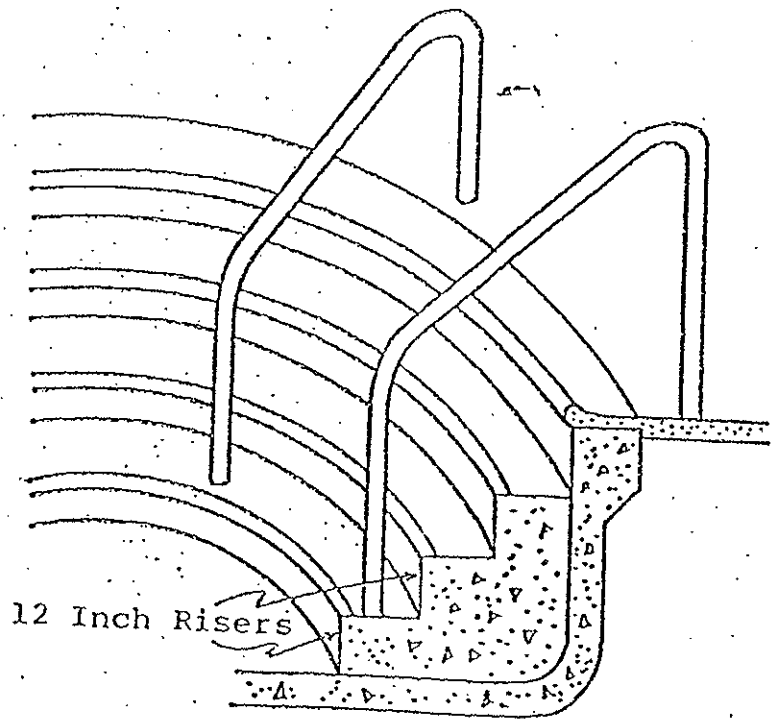
* Section 2-9015(f) - "A hand railing shall be installed over the steps with the leading railing edge extending up to a point not less than 12 inches from the plane of the bottom riser." Drawing does not conform to this statement, but represents majority agreement of BASPIS Committee as to what they feel is reasonable.

Diagram "D"



Risers Shall Not Be More Than 9 Inches
When Only One Hand Rail Is Provided

Diagram "E"



When Two Handrails Are Provided
Riser Shall Not Exceed 12 Inches.
All Other Dimensions Remain The Same.



**PUBLIC SWIMMING POOL/SPA CONSTRUCTION APPLICATION
DATA SHEET**

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 _____