



Community and Economic Development Environmental Health Division

Dexter Marr
Deputy Director

- 200 W. 4th Street, Suite 3100
- Madera, CA 93637
- (559) 675-7823
- FAX (559) 675-7919
- envhealth@madera-county.com

SWIMMING/SPA POOL PLAN APPROVAL REQUIREMENTS FOR RENOVATION / REPLASTERING / EQUIPMENT CHANGES

California Code of Regulations, Chapter 20, Section 65505

PLAN SUBMITTAL

Any person proposing to renovate, replaster, reconstruct or alter, a public pool or its ancillary facilities, mechanical equipment or related piping, shall submit legible plans and specifications to Madera County Environmental Health Division for review and written approval prior to commencing the work and in advance of the issuance of any building, plumbing, or electrical permits. Anytime a pool is acid washed or drained for any reason the pool shall be reviewed to determine if needs to be upgraded to the current pool code as specified below.

1. Persons making modifications to the pool shell or major modifications to the recirculation system should refer to plan approval requirements for new pools.
2. Submit two sets of plans, specification sheets, plan review application, and plan fee. The fee will depend on the extent of the renovation.
3. After the renovation is complete, at least one field inspection will be made to verify compliance with the plan approval.
4. All equipment shall be installed per the manufacturer's written instructions.
5. Plan approvals are valid for a period of two years from the date of the stamp.

The following information is required for the plan approval:

1. JOB ADDRESS - address, city, zip.
2. Name, mailing address and phone numbers of pool contractor and owner.
3. RENOVATIONS - If the pool is being renovated, replastered or drained for any reason provide:
 - a. A simple top view drawing showing the length and width of the pool.
 - b. Resurfacing material and color.
 - c. Depth marker depths and locations.
 - d. Show the location of the contrasting tile on the floor at the 4 ½ ft. water depth. (Pools with a maximum water depth of 5 feet or less do not require a tile line).
 - e. Ladder(s) at the deep end of the pool. (Pools with a maximum water depth of 4½ ft. or less are not required to have a ladder)
 - f. Show the handrail(s) over the stairs with the distance from each step tread and deck to the top of the handrail.
 - g. Coping detail if the pool coping is being replaced.
 - h. If there is an existing diving board, provide scaled top and side view dimensions of the pool.
4. EQUIPMENT CHANGE OR PLUMBING – If any equipment is being changed, provide:
 - a. Year the pool was built.
 - b. Volume of pool.
 - c. Make and model number of existing equipment and any new equipment that is being installed.
 - d. Make and model of existing pump
 - e. Size of suction and return lines going and coming from the equipment room.
 - f. Plumbing material (PVC, copper etc.)
 - g. Any other information that pertains to the equipment installation.

REQUIREMENTS

1. When a pool is replastered or resurfaced the following requirements shall apply:

- a. All swimming pools must be lined with white plaster or a smooth, waterproof, white interior finish, impervious to moisture and constructed of reinforced concrete or a material equivalent in strength and durability. Exception: A spa pool shall be permitted to be finished in a light color other than white when approved by the enforcing agent.
 - b. In pools greater than 5 ft. in depth, a straight line of slip-resistant tile of contrasting color must be installed where the water depth is 4½ ft. The tile must be at least 4 inches but not greater than 6 inches wide.
 - c. If contrasting tile is used along the edge of pool steps, it must be no greater than 4 inches wide and slip-resistant.
 - d. Water Depth markers of contrasting color are required on both sides, at the minimum and maximum depths, at the break in slope and both ends of the pool. Markers must be permanent. Painted letters or stickons are not permitted. Depth markers must indicate the water depth, accurate to the nearest 6 inches as measured from the pool floor to the middle of the skimmer opening. The pool must be lined with ceramic waterline tiles around the entire perimeter of the pool. Depth markers shall be positioned to indicate the water depth accurate to the nearest 6 inches as measured at the waterline. Exception: A spa or wading pool shall have a minimum of two depth markers indicating the maximum depth.
 - e. A ladder as a second means of exit is required at the deep end of a pool having a water depth greater than 4½ ft. Ladders shall be corrosion-resistant and shall be equipped with slip-resistant tread surfaces. Ladders shall be rigidly installed and shall provide a clearance of not less than 3 inches nor more than 5 inches between any part of the ladder and the pool wall.
 - f. Hand railings shall be provided at the top of both sides of each ladder and recessed steps and shall extend over the coping or edge of the deck.
 - g. Stairs shall be provided in the shallowest portion of a pool. In pools with more than one shallow end stairs shall be provided at each shallow end. Each step of a stair shall have a tread in accordance with Figure 31B-7. Risers shall conform to Figure 31B-7. At least one handrail shall be provided extending from the deck to not less than a point above the top of the lowest step installed in accordance with Figure 31B-7.
 - h. Stairs for a Spa Pool: Each step of a spa pool stair shall have a tread dimension in accordance with Figure 31B-7. Risers shall not exceed 12 inches in height. Two hand rails shall be provided extending from the deck to not less than a point above the top of the lowest step in accordance with Figure 31B-7. The steps shall be located where the deck is at least 4 feet wide
- NOTE: Pool or Spa stairs that were approved at the time of original construction will not be required to meet current standards unless the stairs are demolished and reconstructed. Pre-existing non-conforming conditions that present environmental health and safety concerns will be evaluated on a case-by-case basis.
- i. Recessed steps and step risers: Ladder treads and recessed steps shall have a minimum tread of 5 inches and a width of 14 inches and shall be designed to be readily cleaned. Step risers shall be uniform and shall not exceed 12 inches in height. The first riser is measured from the deck.

2. When the deck is completely replaced the following applies:

- a. Depth markers are required on the deck at all locations corresponding the wall markers. 2. Be made of a durable material that is resistant to weathering; and 3. Be slip-resistant when they are located on the pool deck.
- b. For pools with a maximum water depth of 6 ft. or less permanent no diving markers are required next to each of the deck depth markers.
- c. Indoor/outdoor carpeting or similar products are not approved on the deck within four feet of a swimming or spa pool. Any deck material other than concrete must be approved by this Division.

3. When depth markers are replaced:

- a. All depth markers must be marked with the letters "feet" or "ft." and "inches" or "in".
- b. Depth markers must be at least 4 inches in height.

4. When coping is replaced. Handholds -Where perimeter overflow systems are not provided, a bull-nosed coping or cantilevered decking of reinforced concrete, or material equivalent in strength and durability, with rounded slip resistant edges shall be provided. The overhand for either bull-nose coping or cantilevered decking shall not exceed 2 inches or be less

that 1 inch and shall not exceed 2½ inches in thickness). See Coping Detail on page 4. Exception: Handholds are not required for wading pools and the enforcing agent may accept other handholds for spa pools.

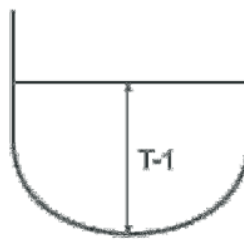
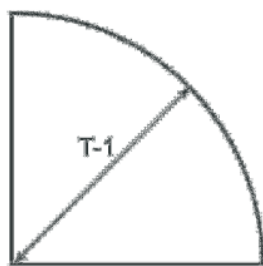
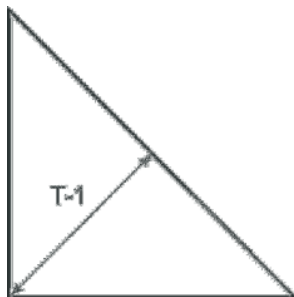
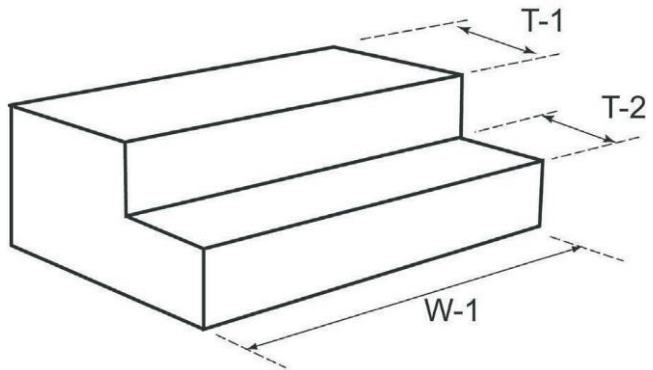
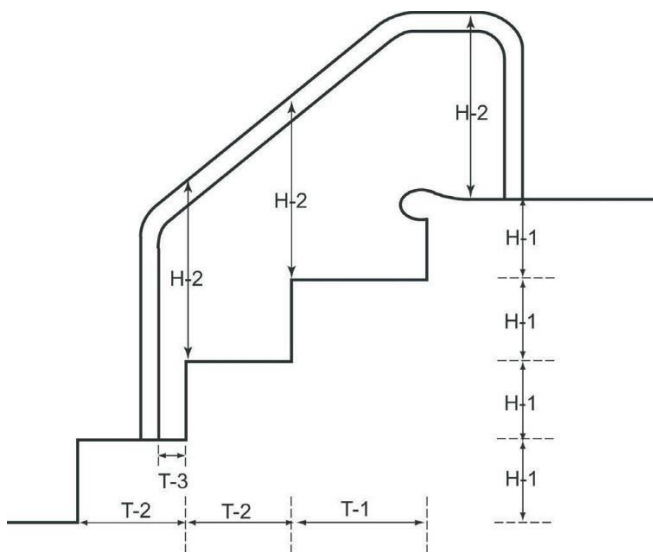
5. An automatic chlorinator is required which is capable of supplying not less than the equivalent of 3 pounds of chlorine per day per 10,000 gallons pool water capacity. **For existing chlorinators sized at 2 lbs per 10,000 gallons per day, the 3 lb. per 10,000 gallons per day sizing is required whenever the chlorinator is replaced.**

6. Each hose bibb at the site must be protected by an approved backflow device.

7. When changes are being made to the plumbing most plumbing code requirements are not retroactive. For example, there will not be a requirement to add an extra skimmer or increase pipe size. If the pool is being completely replumbed, the plans will be reviewed on a case-by-case basis for specific requirements.

8. The direction of flow for the recirculation equipment shall be labeled clearly with directional symbols such as arrows on all piping in the equipment area. Where the recirculation equipment for more than one pool is located on site, the equipment shall be marked as to which pool the system serves. Valves and plumbing lines shall be labeled clearly with the source or destination descriptions.

9. All pool lights must be protected by a Ground Fault Circuit Interrupter.



Constructed after 9/1/2012

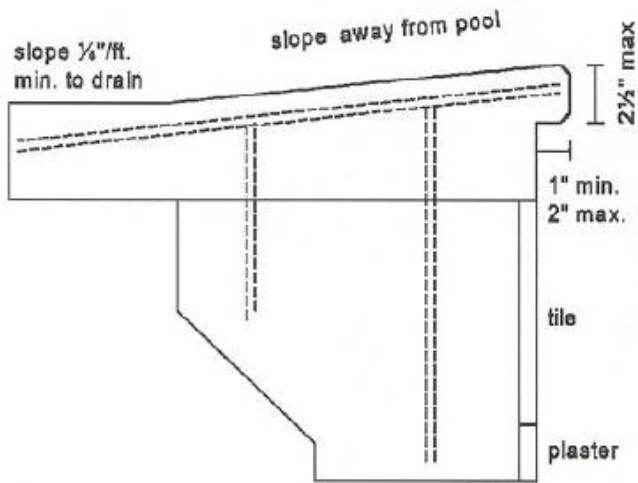
DIMENSIONS	T-1 STANDARD	T-1 TRIANGULAR, CONCAVE, CONVEX	T-2	T-3	W-1	H-1	H-2
Minimum	14"	21"	12"	3"	24"	6"	28"
Maximum	18"	24"	16"	--	--	12"	36"

Constructed before 9/1/2012

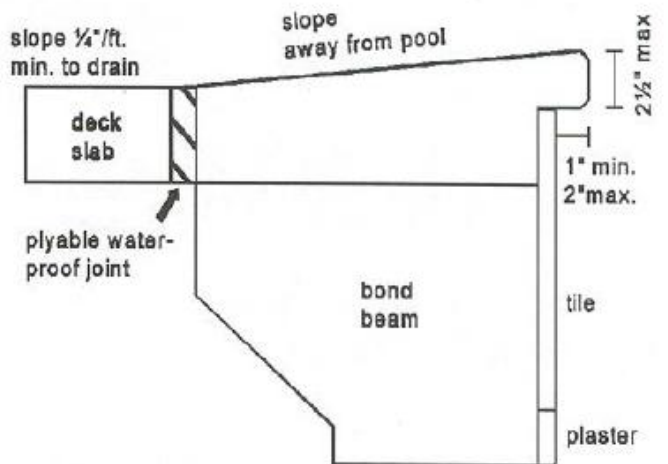
DIMENSIONS	T-1 STANDARD	T-1 TRIANGULAR, CONCAVE, CONVEX	T-2	T-3	W-1	H-1	H-2
Minimum	12"	18"	12"	3"	24"	6"	28"
Maximum	18"	24"	16"	--	--	12"	36"

COPING DETAIL

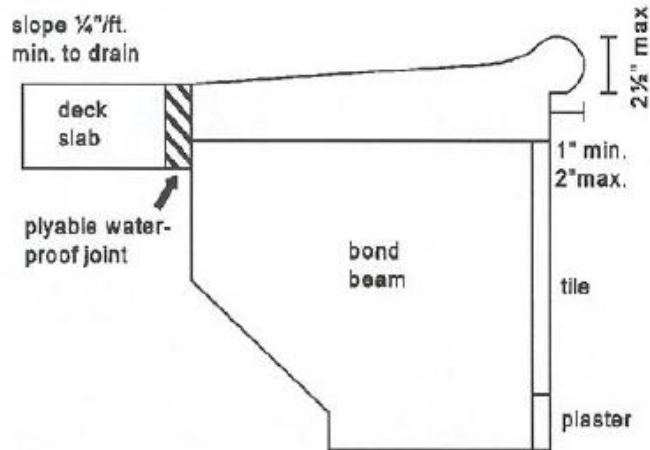
Monolithic Concrete Coping



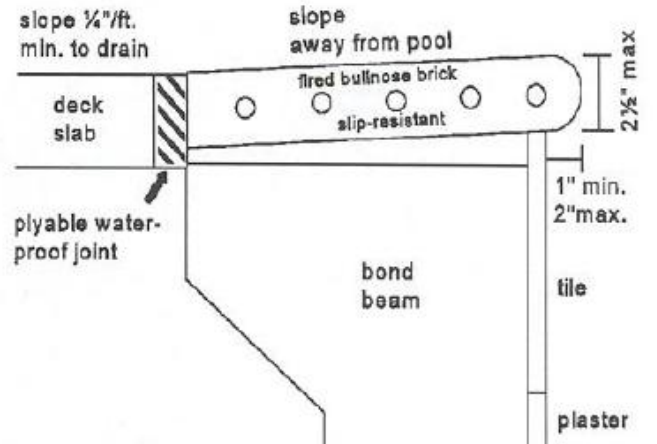
Cast-in-Place Concrete Coping



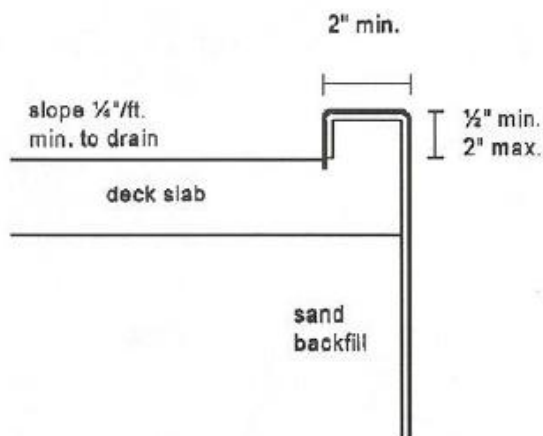
Precast Bullnose Coping



Brick Bullnose Coping



Fiberglass Spa Coping



Perimeter Overflow Pools

