

## **Community Development Department**

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## **Building Division**

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## RESIDENTIAL BATHROOM REMODEL

Bathroom remod			

- ✓ 2019 California Residential Code (CRC)
- ✓ 2019 California Electrical Code (CEC)
- ✓ 2019 California Plumbing Code (CPC)

- ✓ 2019 California Energy Code (CEnC)
- ✓ 2019 California Green Code (CalGreen)
  - 2019 California Mechanical Code (CMC)

## REQUIREMENTS FOR PERMIT SUBMITTAL

Before approval and issuance of a building permit, applicant shall submit three (3) sets of plans (minimum size 11"x 17"), which are drawn to scale (minimum 1/4":1 ft.), readable, legible, and include the following information:

- Title Sheet including the following:
  - √ Project address; and Owner contact information;
  - Contact information of the person preparing the plans,
  - ✓ Sheet index,
  - ✓ Scope of work statement:
  - ✓ Building data like Occupancy, type of construction, stories, square footage, and sprinkler.
  - √ Vicinity map
- Site Plan/ Plot plan specify the lot dimensions and distances from the building to property lines and projections. (For addition only)
- Existing Floor Plan for a floor/story where the remodeled bathroom is located. Specify the existing use of all rooms and areas.
- □ Proposed Bathroom Floor Plan showing type and location of proposed interior cabinetry, countertops, plumbing fixtures, etc. Include construction legend identifying and describing new work and clearly showing the difference between the existing and proposed conditions.
- Electrical Plan, Lighting / Reflected Ceiling Plan (may be combined with floor plan)
- <u>Construction details</u> for any new/reframed interior walls, interior/exterior openings, etc.

			interior/exterior openings, etc.
	MINIMUM REQUIREMENTS FOR BATHROOM EL	ECTRICA	L, MECHANICAL AND PLUMBING SYSTEMS
	ELECTRICAL		MECHANICAL
	At least one receptacle outlet shall be installed in bathroom within 3'-0" from basin. At least one 20-ampere branch circuit shall be provided to supply bathroom receptacle outlet(s). Bathroom outlets shall have GFCI protection. [CEC 210.52(D), 210.11(C)(3) & 210.8(A)(1)] All 125volt, 15-ampere and 20-ampere receptacles shall be listed tamper resistant. [CEC 406.12]		Bath and toilet rooms shall have an exhaust rate of 50 cfm intermittent or 25 cfm continuous. [CMC Table 403.7] Each bathroom, or room containing a bathtub, shower, or tub shower combination, shall be mechanically ventilated Unless functioning as a part of a whole house ventilation system, fans must be controlled by a humidity contro capable of adjustment between a relative humidity range of $\leq$ 50 percent to a maximum of 80 percent. The controlled
Ш	Both new and modified branch wiring circuits shall have Arc-fault circuit protection for 120-volt, single phase, 15 and 20- ampere branch circuits supplying outlets in dwellings. [CEC 210.12(A)]		may utilize manual or automatic means of adjustment. The control may be a separate component or integral to the exhaust fan. [CMC 402.5, CalGreen 4.506]
	No part of a hanging fixture is allowed closer than 8 feet above the tub rim or 3 feet horizontally from the tub rim, unless light fixture(s) in shower enclosure area is listed for		Bath and toilet room windows shall not be less than 3 square feet, one half of which must be operable. [CRC R303.3]
	damp areas or listed for wet locations. [CEC 410.10(D)]  All installed luminaires shall be high efficacy; either listed by source type or by being JA8-2016 certified and labeled.		A bath exhaust fan, with back draft damper and humidity control, is required regardless of the presence of a window (room containing a bathtub, shower, spa or other similar source of moisture). [CRC R303.3]
	[CEnC 150.0(k)1A]  A minimum of one luminaire shall be installed in each bathroom controlled by a vacancy sensor.		Exhaust must vent to outdoor in an approved duct Terminate the outlet a minimum of 3 feet from an opening or property line. [CMC 504.5]
	Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) labeling; air leakage; sealing; maintenance; and socket and light source as described in § 150.0(k)1C. Only JA8-2016-E certified and marked light source, rated for elevated temperature, must be installed by final inspection. [CEnC 150(k)1C]	_	Mechanical and gravity outdoor air intake openings shall be located a minimum of 10 feet from any plumbing vents and such opening shall be located a minimum of 3 feet below the contaminant source. [CRC R303.5] Show fan/duct/vent termination locations. Indicate that far and duct openings (environmental air ducts) shall terminate at least three (3) feet from property lines of
	All exhaust fans shall be switched separately from lighting systems. [CEnC 150(k)2B]		openings into the building with back draft damper Plumbing vents within ten (10) feet of operable skylights
	For occupancies with a horizontal rated separation (floor/ceiling assembly), the recessed fixtures must be protected to the rating of the separation (1 hour) or be		shall extend a minimum of three (3) feet above such openings. [CMC 504.1, 504.5, CPC 906.2]
	listed to the required protection. This generally applied to		PLUMBING
	residential condominium construction where units are		Bathrooms shall have a minimum ceiling height of 7 fee except at the center of the front clearance area for fixtures

□ Bathrooms shall have a minimum ceiling height of 7 feet except at the center of the front clearance area for fixtures and at showers the ceiling height may be 6 feet 8 inches. [CRC R305.1 and R305.1 Exception 2]

	R308.4.5]	~	408.6]  Plumbing fixtures and fixture fittings for persons with
	Showers and tub shower combinations shall be provided	•	disabilities shall conform to CBC Chapters 11A or 11B
	with individual control valves of the pressure balance,		for specific accessibly codes. [CBC 11A or 11B, 408.6]
	thermostatic, or combination pressure balance and		Where a fixture is installed on a floor level that is lower
	thermostatic types that provide scald and thermal shock		than the next upstream manhole cover of the public or
	protection. [CPC 408.3]		private sewer (at basement), serving such drainage piping,
	Bathtub and shower floors, walls above bathtubs with a		shall be protected from backflow of sewage by installing
	showerhead, and shower compartments shall be finished	_	an approved type of backwater valve per [CPC 710.1]
	with a nonabsorbent surface (e.g., ceramic tile or		Drainage piping serving fixtures that are located below the
	fiberglass) over a moisture resistant underlayment (e.g.,		crown level of the main sewer (at basement) shall
	cement, fiber cement, or glass mat gypsum backer)		discharge into an approved water-tight sump or receiving
	extending to a height of not less than 6 feet above the		tank, so located as to receive the sewage or wastes by gravity. [CPC 710.2]
	drain inlet. Water-resistant gypsum backing board shall not be used over a vapor retarder in shower or bathtub		
	compartments. [R702.3.8, R307.2]		WHIRLPOOL/ SPA TUBS
	Control valves and showerheads shall be located on the		Whirlpool (Spa) bathtubs shall have a readily accessible access panel. [CPC 409.6]
	sidewall of shower compartments, arranged so that the		The Circulation pump shall be located above the crown
	showerhead does not discharge directly at the entrance to		weir of the trap. [CPC 409.6]
	the compartment so that the bather can adjust the valves		The pump and the circulation piping shall be self-draining
	prior to stepping into the shower spray. [CPC 408.9]	_	to minimize water retention in accordance with standards
	A minimum 12"x12" access panel is required when a slip		referenced in Table 14-1. [CPC 409.6]
_	joint p-trap waste & overflow is provided. [CPC 402.11]		BIDETS
	Site built shower stalls shall be water tested before close-		The water supply to bidets shall be protected with air gap
	in. [CPC 408.0].  When additional water closets (toilets) are installed, a		or vacuum breaker. [CPC 410.2 & 603.3.5]
_	maximum of 3 water closets are allowed on a 3" waste		The maximum hot water temperature discharging from a
	line.[CPC Table 703.2]		bidet is limited to 110 degrees by a device that conforms
	The hot water control shall be installed on the left side of		to ASSE 1070, Standard for Water Temperature Limiting
	lavatory faucet. [CPC 417.5]		Devices, or CSA B125.3, Standard for Plumbing Fittings.
	Fixture water consumption:		The water heater thermostat shall not be considered a
✓			control for meeting this provision. [CPC 410.3]
	greater than 1.2 gpm and <u>Kitchen faucets</u> 1.8 gpm at 60		SMOKE & CARBON MONOXIDE ALARMS
,	psi. [CPC 407.2.1]		Show location(s) of interconnected hard-wired "SMOKE
✓	<u></u> ,,,,		ALARM" with battery backup in the following: [R314]  a. In each sleeping room.
	flushometer valve operated, shall have an average		b. Outside of each separate sleeping area in the
	consumption of not more than 1.28 gallons of water per flush for both single and dual flush toilets effective July		immediate vicinity of the bedrooms
	1, 2011. [CPC 411.2]		c. On each additional story of the dwelling, including
<b>✓</b>			basements and habitable attics, but not including
	gpm at 80 psi. [CPC 408.2]		crawl spaces and uninhabitable attics.
✓			d. Provide a note: "SMOKE ALARM shall be
	more than 0.125 gallons of water per flush effective		interconnected hard-wired with battery backup."
	January 26, 2016. [CPC 412.1.1]		e. Battery operated ok only where no access for wiring
✓	Train mater Cimians (Trainings) Silvana illest all the	_	in attic or crawlspace.
	requirements of section 412, including providing water		For buildings with fuel-burning appliances and/or attached
_	distribution and fixture supply piping. [CPC 412.1.3]		garages, provide an approved CARBON MONOXIDE
	Plumbing fixture clearances for fixtures that are not		ALARM at: [R315.1]
✓	required to conform to accessibility codes: <u>Water closets</u> shall not be set closer than 15" from its		<ul> <li>Outside of each separate sleeping area in the immediate vicinity of the bedrooms</li> </ul>
•	Waler Closers shall holde sel Closer man 15 Holli ils		b. On every level of a dwelling unit including basements
	center to any side wall or obstruction and 30" from		
	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24"		c. Provide a note: "CARBON MONOXIDE ALARM shall
<b>√</b>	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24" minimum clear space in front of fixture. [CPC 402.5]		
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✓	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24" minimum clear space in front of fixture. [CPC 402.5] <u>Urinals</u> shall not be set closer than 12" from their center to any side wall or obstruction nor 24" from center to center [CPC 402.5]		<ul> <li>Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup." [R315.1.3]</li> </ul>
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<b>√</b>	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24" minimum clear space in front of fixture. [CPC 402.5] <u>Urinals</u> shall not be set closer than 12" from their center to any side wall or obstruction nor 24" from center to center [CPC 402.5]  The finished floor slope at shower receptor is min. ½" and max. ½" per foot. [CPC 408.5]		c. Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup." [R315.1.3] d. Battery operated ok where no access for wiring.  WINDOWS/DOORS  Exterior windows/doors added and/or replaced as part of the remodeling project shall be clearly identified on the
	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24" minimum clear space in front of fixture. [CPC 402.5] <u>Urinals</u> shall not be set closer than 12" from their center to any side wall or obstruction nor 24" from center to center [CPC 402.5]  The finished floor slope at shower receptor is min. ½" and max. ½" per foot. [CPC 408.5]  In no case shall any shower receptor threshold be less		c. Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup." [R315.1.3] d. Battery operated ok where no access for wiring.  WINDOWS/DOORS  Exterior windows/doors added and/or replaced as part of the remodeling project shall be clearly identified on the plans and shall have a fenestration label with U-Factor
<b>√</b>	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24" minimum clear space in front of fixture. [CPC 402.5] <u>Urinals</u> shall not be set closer than 12" from their center to any side wall or obstruction nor 24" from center to center [CPC 402.5]  The finished floor slope at shower receptor is min. ½" and max. ½" per foot. [CPC 408.5]  In no case shall any shower receptor threshold be less than two (2) inches or exceeding nine (9) inches in		c. Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup."  [R315.1.3] d. Battery operated ok where no access for wiring.  WINDOWS/DOORS  Exterior windows/doors added and/or replaced as part of the remodeling project shall be clearly identified on the plans and shall have a fenestration label with U-Factor and Solar Heat Gain Coefficient meeting the requirements
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√ √	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24" minimum clear space in front of fixture. [CPC 402.5] <u>Urinals</u> shall not be set closer than 12" from their center to any side wall or obstruction nor 24" from center to center [CPC 402.5]  The finished floor slope at shower receptor is min. ½" and max. ½" per foot. [CPC 408.5]  In no case shall any shower receptor threshold be less than two (2) inches or exceeding nine (9) inches in depth when measured from the top of the threshold to the top of the drain. [CPC 408.5]		c. Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup." [R315.1.3] d. Battery operated ok where no access for wiring.  WINDOWS/DOORS  Exterior windows/doors added and/or replaced as part of the remodeling project shall be clearly identified on the plans and shall have a fenestration label with U-Factor and Solar Heat Gain Coefficient meeting the requirements of section [CEnC 110.6] Safety glazing is required within 60 inches horizontally of
<b>√</b>	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24" minimum clear space in front of fixture. [CPC 402.5] <u>Urinals</u> shall not be set closer than 12" from their center to any side wall or obstruction nor 24" from center to center [CPC 402.5]  The finished floor slope at shower receptor is min. ½" and max. ½" per foot. [CPC 408.5]  In no case shall any shower receptor threshold be less than two (2) inches or exceeding nine (9) inches in depth when measured from the top of the threshold to the top of the drain. [CPC 408.5]  New shower compartments shall have a finished interior	_	c. Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup." [R315.1.3] d. Battery operated ok where no access for wiring.  WINDOWS/DOORS  Exterior windows/doors added and/or replaced as part of the remodeling project shall be clearly identified on the plans and shall have a fenestration label with U-Factor and Solar Heat Gain Coefficient meeting the requirements of section [CEnC 110.6] Safety glazing is required within 60 inches horizontally of the shower enclosure and within 60 inches vertically of the
√ √	center to any side wall or obstruction and 30" from center to center of any similar fixture. Provide 24" minimum clear space in front of fixture. [CPC 402.5] <u>Urinals</u> shall not be set closer than 12" from their center to any side wall or obstruction nor 24" from center to center [CPC 402.5]  The finished floor slope at shower receptor is min. ½" and max. ½" per foot. [CPC 408.5]  In no case shall any shower receptor threshold be less than two (2) inches or exceeding nine (9) inches in depth when measured from the top of the threshold to the top of the drain. [CPC 408.5]	_	c. Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup." [R315.1.3] d. Battery operated ok where no access for wiring.  WINDOWS/DOORS  Exterior windows/doors added and/or replaced as part of the remodeling project shall be clearly identified on the plans and shall have a fenestration label with U-Factor and Solar Heat Gain Coefficient meeting the requirements of section [CEnC 110.6] Safety glazing is required within 60 inches horizontally of

above shower drain. Shower door to be tempered, and provide a min 22" clear unobstructed opening. [CPC

 $\hfill\Box$  Provide safety glazing in walls enclosing tubs/showers

where the bottom exposed edge of the glazing is less than