This is to be used as a general checklist; it is not inclusive of all code requirements and inspection criteria.
Per 2016 California Plumbing Code (CPC)

PIPE SUPPORT (Table 313.3) and PROTECTION
- ABS/PVC: Horizontal support every 4 feet, support vertically every story and provide mid-story guide.
- Cast iron: Horizontal support every other joint unless over 4 feet, within 18” of joints, and at all horizontal branch connections. Vertical support at base and each story using riser clamps.
- Copper tubing: 1 ½” and less every 6 ft. horizontally and every 10 ft. horizontal for pipe 2” and larger. Support vertical piping every story.
- Wrap embedded piping to prevent strain and corrosion. CPC 312.2 Sleeve pipes through footings and foundations. CPC 312.10
- Seal spaces between pipes and sleeves. CPC 312.10.2

SOIL PIPING
- Pipe supported on firm bed for entire length. CPC 313.5 No rocks supporting or touching pipes. CPC 314.4
- Six inches of sand bed minimum for ABS/PVC drain pipe per manufacturer
- No rocks or debris in first 12” of backfill over ABS pipe. CPC 314.4 Trenches not to undermine footings within bearing plane (45’). CPC 314.1 Sewer and water pipe minimum 12” deep. CPC 609.1
- Water and sewer OK in same trench if sewer materials are approved for such use.

DRAINAGE
- Materials must be listed and all pipes must have manufactures listing and labeling. CPC 301.2.1
- Minimum slope ¼” per foot, or when preapproved, 1/8” per foot for 4” diameter or larger. CPC 708.0
- No reductions in pipe size allowed in direction of flow. CPC 315.2
- No drilling or tapping of connections. CPC 310.2
- Use only listed transition fittings at plastic to cast iron pipe.
- Minimum trap sizes per CPC Table 702.1
CLEANOUTS (C.O.)

- Size per CPC Table 707.1
- Required at upper terminal of horizontal runs on first floor or two way clean out required near building drain/building sewer. CPC 707.4
- Cleanout in horizontal drainage piping every 100’ and/or every aggregate 135˚ change of direction. CPC 707.4
- Clean outs clearances per CPC 707.9
- Under floor clean out shall not be farther than 5 ft. from access point. CPC 707.9
- Passageway to under floor cleanout minimum 30” horizontal by 18” vertical. CPC 707.9

FIXTURES BELOW SEWER/ BACK WATER VALVES

- Fixtures to drain by gravity where practicable. CPC 709.0
- When necessary due to site conditions, install sewer ejector pump per CPC 710.
- Backwater valves required for fixtures below next upstream manhole cover. CPC 710.1
- Fixtures above manhole cover elevation not allowed to discharge through backwater valves (typical).
- Back water valves required to be accessible for service. CPC 710.6

TRAPS

- Trap size no larger than trap arm. CPC 1003.3
- Trap weir to vent distance minimum 2 times trap arm diameter. CPC 1002.2 Horizontal distance of trap arms per Table 1002.2
- Only 1 trap permitted on trap arm. CPC 1001.2
- Maximum 1 slip joint allowed on outlet side of trap. CPC 1003.2
- Clean out required if change of direction is more than 90˚. CPC 1002.3
- Slip joints must be accessible, minimum 12” X 12” access. CPC 402.10

VENTS

- No flat venting (take off above horizontal center line). CPC 905.2
- Slope vents toward waste piping and must be free of sags. CPC 905.1
- No vent opening below trap weir. CPC 905.5
- Horizontal vents minimum 6” above flood level rim or drainage fittings CPC 905.3
- Vents must terminate outdoors 6” above roof. CPC 906.1
- Minimum 12” horizontal from any vertical surface. CPC 906.1
- Minimum 7 ft. above roofs used as decks if within 10 ft. horizontally. CPC 906.3
- Clearance from building openings 3 ft. above or 10 ft. away. CPC 906.2
- Vent terminations minimum 3 ft. from property lines. CPC 906.2
WATER SUPPLY
- Minimum water service piping is ¾” (type L if copper). CPC 610.8
- Steel plate protection for piping if notches or holes are closer than 1” to face of framing. CPC 312.9
- Steel plate protection must span minimum 1 ½” beyond outside of pipe. CPC 312.9
- Water hammer arrestors required near quick-acting valves. CPC 609.10
- Copper pipe shall comply with CPC 605.1

REQUIRED VALVES
- Main shutoff and water heater shutoff valves must be fullway type. CPC 606.2 Valves required at fixture supply pipe except tub and shower. CPC 606.5
- Shower valve location such that adjustment may be made without entering stream CPC 411.10
- Valves required on cold-water supply at each water heater. CPC 606.2
- All shutoffs require access. CPC 606.6
- Vacuum relief valve for water heaters higher than the appliance(s) it serves. CPC 608.7

GAS PIPING
- Gas piping prohibited underground beneath buildings unless in conduit sealed in building and vented on exterior. CPC 1210.1.6
- Gas tubing requires shield plates to extend minimum 4” past studs and plates. CPC 1210.3.3
- Cap all unused gas outlets. CPC 1210.9.1
- Accessible dry leg required if water vapor in gas. CPC 1210.8.1
- Corrugated stainless steel tubing shall be installed per manufactures instructions. Piping through concrete shall be sleeved. CPC 1210.1.5
- Yellow insulated copper tracer wire minimum 18 AWG buried with plastic pipe.
- Minimum 6” above grade when mounted to the building
- Galvanized, painted or otherwise prevented from corrosion CPC 312.4

PIPING TEST
- Water pipe test at working pressure 15 minutes or 50 PSI air test for other than plastic pipe (15 minutes). CPC 609.4
- Drain waste and vent 10 foot head for 15 minutes or air test 5 PSI for 15 minutes. CPC 712
- Test pressures shall be held for 15 min with no perceptible drop in pressure. CPC 1213.3
- Test gauge scale not more than 2X test pressure. CPC 318.5
- Roof drains tested and approved prior to covering.
**SHOWER PAN TEST (CPC 408.6)**
- Shower pan sloped to drain.
- 3” dam and solid backing all around for backing.
- Listing and installation instructions for other than hot mop (built up).
- Drain weep holes not sealed with tar or mastic.

**TPR AND CONDENSATE PIPING**
- TPR valve piping to grade or other approved location
- Condensate piping to appropriate locations with minimum fall