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## WATER SUPPLY LINE REPIPE & PEX/COPPER REPIPE CHECKLIST

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The following list is not an all-inclusive list of requirements. It is the responsibility of the permittee (owner, contractor) to be familiar with all the code requirements, state law and local ordinances.

### WATER SUPPLY LINE REPIPE REQUIREMENTS:

1. **The governing codes for the project are listed below and are required to be noted on the site plan prior submittal.**
  - 2019 California Plumbing Code
  - 2019 California Residential Code
  - 2019 California Electrical Code
  - 2019 California Mechanical Code
  - 2019 California Green Code
  - City of San Dimas Municipal Code
2. **Site plan**
  - A site plan must show the location of the water meter and the point of connection to the house. In addition, all parkways and sidewalks shall be shown in the site plan. (if applicable)
  - A separate encroachment permit may be required by public works division if part of the water supply line is located in the public right of way. Contact public works for more information. 909-394-6240
  - Clearly identify the type and size of the proposed water supply line. Refer to table 604.1 from the California Plumbing Code for a list of approved materials.
3. **Requirements**
  - No building supply line shall be less than  $\frac{3}{4}$ " in diameter. (CPC610.8)
  - Copper/PVC service piping shall be covered to a minimum of 12 inches below finished grade. (CPC 609.1)
  - Copper tube for water piping shall have a weight of not less than Type L. Type M copper shall be permitted to be used where piping is aboveground in, or on, a building or underground outside of structures. (CPC 604.3)
  - Plastic materials for building supply outside underground shall have an electrically continuous corrosion-resistant blue insulated copper tracer wire not less than 14 AWG and the insulation type shall be suitable for direct burial.

(CPC 604.10.1)

- **Note: Where plastic piping is used, a label shall be fastened to the main electrical meter panel stating, "This structure has a nonmetallic water distribution line"**
- When PEX tubing is installed underground, the tubing shall be sleeved with piping or tubing approved for underground potable water systems.
- If Replacing metallic water service with a plastic service, a new grounding electrode system (GES) may be required. Identify on the plans the type of GES that will remain and the type that will be installed if applicable.
- An approved-type pressure regulator shall be installed where static water pressure exceeds 80 psi. (CPC 608.2)
- All grounding electrodes that are present at each building or structure including the water supply line shall be bonded together. (CEC 250.50)
- Grounding of the electrical service at the main water line must be within the first 5' of water piping into the building. (CEC 250.68 C)
- A bonding jumper shall be installed to bypass the water pressure regulator to ensure continuity of the bond.

### **PEX/COPPER REPIPE REQUIREMENTS**

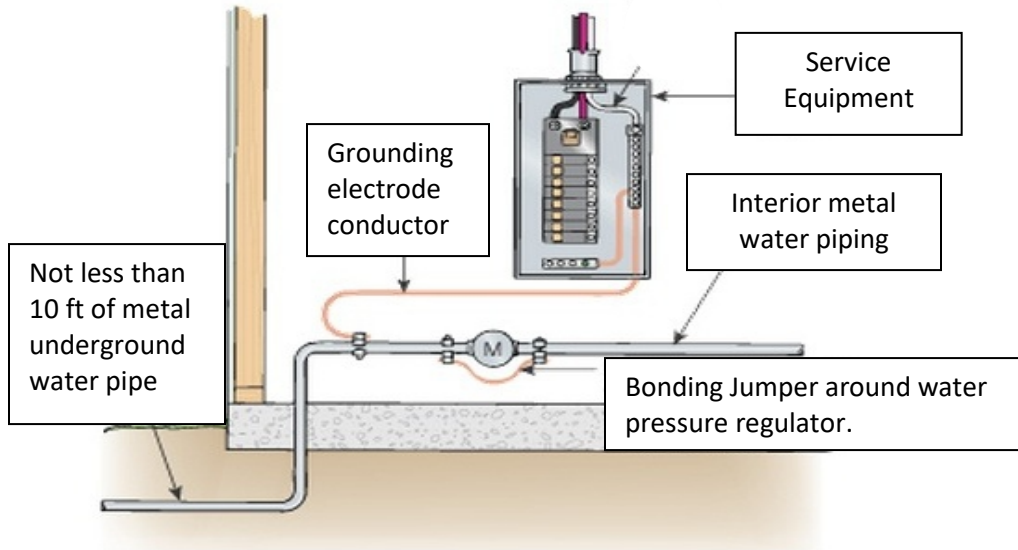
#### **4. Requirements**

- Piping running through framing members to within 1" of the exposed framing shall be protected by steel nail plates not less than 18 gauge. (CPC 312.9)
- Piping penetrations of fire-resistance-rated walls, partitions, floors, floor/ceiling assemblies, roof/ceilings assemblies shall be protected in accordance with the requirements of the California Residential Code. (CPC 312.7)
- Piping is supported at intervals not to exceed those shown in table 313.3 from the 2019 California Plumbing code.
  - Copper horizontal 6' / vertical 10'
  - PEX horizontal 32" / vertical at Base and each floor.
- All interior piping systems capable of becoming energized must be bonded together. Connecting them to a gas water heater provides an easy way to check for compliance.
- Any structural member or shear wall weakened or impaired by cutting or notching shall be fixed or repaired in accordance with the California Residential code and in some cases a California licensed professional report may be required for potential repairs.
- Bonding of the gas pipe system (if metallic) to the main electrical panel when PEX re-pipe is installed is required.

- Hose bibs shall be protected by non-removable hose bib type backflow preventer. (Anti-siphon device on hose bib.) (CPC 603.5.7)

### Illustration for 250.52(A)(1)

This grounding electrode conductor is connected to interior water piping not more than 5 ft from the point where it enters the building, as required by **250.52(A)(1)**.



**Bonding Interior Piping.**  
All interior piping systems capable of becoming energized must be bonded. Connecting them at a gas water heater provides an easy way to check for compliance.

