

## Plan Requirements for Plumbing

### In accordance with the 2009 UPC and 2012 Green Plumbing and Mechanical Code Supplement

Below is a list of requirements necessary to complete a review of plumbing systems. Please read the following carefully to ensure you provide all required information to minimize delays in the plan review and permit issue process.

#### **New Construction: Plans shall show**

1. Meter Size for supply
2. Building supply Size
3. Floor Plan:
  - a. Must show locations of all fixtures including for future (any potential fixtures, unfinished basements layout, etc.)
  - b. Location of Water heater
  - c. Distance from water heater to furthest fixture - 64 ounces MAX volume from Water heater to furthest fixture. (50' of ½" PEX)
  - d. Drawing of waterlines to all fixtures –
    - i. Indicate style and type (Re-circulating, Branch, Zoned, Manabloc system)
    - ii. For re-circulating systems show the following: 16 ounces MAX volume from re-circulating line (12' of ½" PEX)
      1. Type of pump
      2. Pump control – Time clock, Temp sensors
      3. Distance of branch from re-circulating line
  - e. Waste and Vent Riser diagram
    - i. Shall indicate specific fixtures such as Backwater device.
  - f. Size of bath/shower in sq inches.
4. Fixture Specifications:
  - a. A list of fixtures and appurtenances that are connected to the potable distribution system or that discharge to the sanitary waste system. The list must include manufacturer and model number of each plumbing fixture or appurtenance. These fixtures shall meet the Water Sense and Energy Star Standards as described in the 2012 Green Plumbing & Mechanical Supplemental. (list on back of page)



Please See Reverse Side

**For Additions and /or Remodeling:**

1. Floor Plan
  - a. Must show the locations of all new plumbing fixtures.
  - b. Location of water heater
  - c. Show the distance from water heater to new fixtures.
  - d. Drawing of waterlines to all new fixtures –
    - i. Indicate style and type of existing system (Re-circulating, Branch, Zoned, Manabloc system) 64 ounces MAX volume from water heater to furthest fixture
    - ii. For re-circulating systems show the following: 16 ounces max volume from re-circulating line (12' of 1/2" PEX)
      1. Type of pump
      2. Pump control – Time clock, Temp sensors
      3. Distance of branch from re-circulating line
  - e. Waste and Vent Riser diagram of new system
2. Material Specifications:
  - a. A list of fixtures and appurtenances that are connected to the potable distribution system or that discharge to the sanitary waste system. The list must include manufacturer and model number of each plumbing fixture or appurtenance. These fixtures shall meet the Water Sense and Energy Star Standards as described in the 2012 Green Plumbing & Mechanical Supplemental. (as shown below)

|                      |                           |
|----------------------|---------------------------|
| Shower head          | 2.0 GPM                   |
| Kitchen Faucet       | 1.8 GPM                   |
| Residential Lavatory | 1.5 GPM                   |
| Toilet               | 1.28 GPF                  |
| Dishwasher           | Energy Star               |
| Clothes Washer       | Energy Star               |
| Water Softener       | Regenerate by demand only |
|                      |                           |
|                      |                           |
|                      |                           |

\* Whirlpool bathtubs or bath tubs with no shower head are exempt.