

# San Francisco Public Utilities Commission Recycled Water Installation Procedures for Developers

The City and County of San Francisco (CCSF) requires property owners to install dual-plumbing systems for recycled water use in accordance with Ordinances 390-91, 391-91, and 393-94, within the designated recycled water use areas under the following circumstances:

- New or remodeled buildings and all subdivisions with a total cumulative area of 40,000 square feet or more
- New and existing irrigated areas of 10,000 square feet or more

The following are procedures to guide developers and property owners with the <u>installation of recycled water service lines</u>. The diagram on the reverse shows how, and where the lines are to be installed, and the required backflow prevention assembly.

# **Number of Water Lines Coming onto a Property**

Three to four lines:

- 1) Fire
- 2) Potable water domestic
- 3) Recycled water domestic
- 4) Recycled water irrigation (if property has landscaping)

#### **Number of Water Meters**

One water meter is required for each water line.

#### Required Backflow Prevention Assembly

Fire line – reduced pressure principle backflow preventer
Potable water domestic – reduced pressure principle backflow preventer
Recycled water domestic – reduced pressure principle backflow preventer
Recycled water irrigation line – reduced pressure principle backflow preventer

All backflow prevention assemblies must be approved by the SFPUC's Water Quality Division.

The backflow prevention assembly for domestic water plumbing inside the building and for the recycled water system must meet the CCSF's Plumbing Code and Health Code.

# **Pipe Separation**

California Department of Public Health regulations require new water mains and new supply lines to be installed at least 4-foot horizontally from, and one-foot vertically above a parallel pipeline conveying recycled water.

#### Pipe Type

- Transmission lines and mains ductile iron
- Distribution and service lines purple PVC or equivalent
- Irrigation lines purple PVC or equivalent
- Dual-plumbing described in the City and County of San Francisco Plumbing Codes
- \*\*SFPUC must sign off on pipe type prior to installation. Contact the City Distribution Division at (415) 550-4952.

#### Temporary Potable Water Use Until Recycled Water Becomes Available

The potable water line will be used to feed the recycled water lines(s) until such time that recycled water becomes available. When recycled water becomes available, the cross-connection will be broken by the SFPUC, and the potable and recycled water lines will be totally separated. Before recycled water is delivered to the property, cross-connection and backflow testing will take place to assure separation.

Under no circumstances are developers or property owners to "t-off" of the potable water line to the recycled water lines(s).

#### If you have questions, or would like additional information:

Recycled Water Ordinances and Technical Assistance San Francisco Public Utilities Commission

Water Resources Division
(415) 554-3271

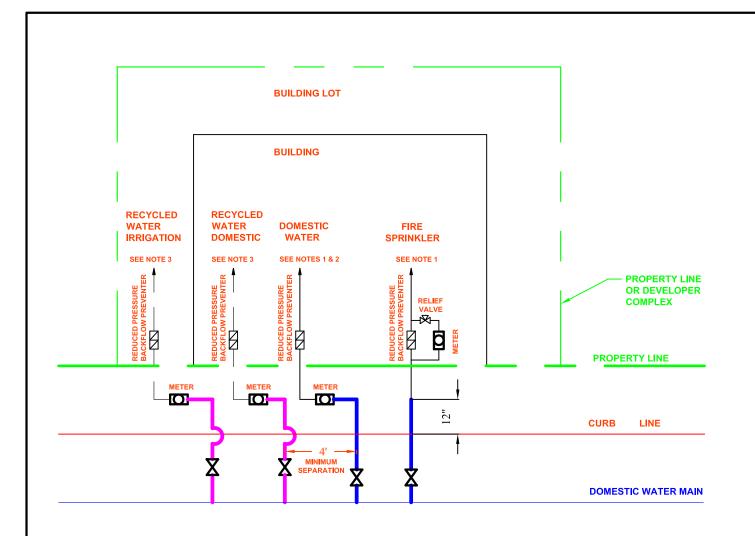
**Recycled Water Plumbing Codes** 

Department of Building Inspection Plumbing Inspection Services (415) 558-6054 **Backflow Prevention** 

San Francisco Public Utilities Commission Water Quality (650) 652-3100

**New Service Line Permits** 

San Francisco Public Utilities Commission Customer Services (415) 551-3000



# STREET - SIDE

#### NOTE:

- 1. ALL BACKFLOW PREVENTERS MUST APPROVED BY SFPUC WATER QUALITY BUREAU.
- 2. BACKFLOW PREVENTION FOR DOMESTIC WATER PLUMBING INSIDE THE BUILDING MUST MEET CCSF PLUMBING CODE AND PUBLIC HEALTH CODE REQUIREMENTS.
- 3. BACKFLOW PREVENTER FOR RECYCLED WATER SYSTEM MUST MEET CCSF PLUMBING CODE AND PUBLIC HEALTH CODE REQUIREMENTS.

RESPONSIBILITY OF INSTALLATION OF

# **HEAVY LINES:**

PROPERTY OWNER PAYS FOR NEW SERVICE INSTALLATION. SFPUC RETAINS OWNERSHIP OF NEW SERVICE UP TO THE END OF METER ASSEMBLY.

LIGHT LINES: & \_\_\_\_

PROPERTY OWNER PAYS FOR NEW SERVICE INSTALLATION. OWNERSHIP REMAINS WITH THE PROPERTY OWNER.

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
SAN FRANCISCO WATER DEPARTMENT

# **INSTALLATION OF RECYCLED WATER SERVICE LINES**

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