

SECTION 600

DESIGN CRITERIA OFF-SITE RECYCLED WATER FACILITIES

600.1 GENERAL

Design of all off-site recycled water facilities shall be as set forth under the Rules and Regulations for Users of Recycled Water, and Section 500, "Design Criteria Domestic Water Facilities," herein, except as modified or expanded upon in the following sections.

600.2 STANDARD LOCATION

Recycled water mains shall be located 6 feet from curb face on the opposite side of the street of the domestic water mains and shall meet all separation requirements stated in Section 600.4. Recycled water mains shall have a minimum of 48 inches cover to the roadway surface, and shall maintain at least one foot separation from the bottom of the domestic water line to the top of the recycled water line.

600.3 VALVES

600.3.1 Spacing

Spacing requirements shall be as set forth for domestic water, except for the following modification of paragraph 1, line 3, of Section 500.6. "On long blocks, intermediate valves shall be provided upon request of the District." The second paragraph of Section 500.6 does not apply.

600.3.2 Identification

Valve covers shall be circular and stamped "RECYCLED WATER," and painted purple, per Sections 09900 and 15151.

600.4 SEPARATION REQUIREMENTS

Recycled water lines should be installed at least ten feet horizontally from domestic water lines and sewer lines and one foot lower than the domestic water lines, but one foot above sewer lines. Where separations cannot be maintained, special construction should be used as detailed in MNWD standards drawing W-14.

600.5 RECYCLED SYSTEM IDENTIFICATION

600.5.1 General

All new buried transmission/distribution piping in the recycled water system, including service lines, valves, and other appurtenances are to be colored purple, Panatone 522C, and embossed or be integrally stamped/marked CAUTION: RECYCLED WATER - DO NOT DRINK, or be installed with a purple identification tape, or a purple polyethylene vinyl wrap, color to be Panatone 512C.

600.5.2 Detailed Specifications

Detailed provisions for recycled system markings can be found in Section 15151 "Domestic and Recycled Water Facilities Identification."

600.6 SPECIAL OFF-SITE RECYCLED WATER NOTES

In addition to the standard water notes shown in Section 500.11, the following special off-site recycled water notes are to be shown on all recycled water system construction plans:

1. The installation of the recycled water system shall conform to the regulations for the construction of recycled water system within the District.
2. All constant pressure recycled and domestic water main line piping installed on this project shall be identified in accordance with the District's specifications.
 - A. Warning tapes shall be used on all constant pressure main line piping carrying recycled or domestic water.
 - B. Warning tapes shall be a minimum of 6 inches wide and shall run continuously for the entire length of all constant pressure main line piping. The tape shall be attached to the top of the pipe with plastic tape bonded around the warning tape and pipe every 5-feet on center.
 - C. Warning tape for the constant pressure recycled water piping shall be purple in color with the words "CAUTION: RECYCLED WATER" imprinted in minimum 1-inch-high letters black in color. Imprinting shall be continuous and permanent.
 - D. Recycled water distribution/transmission mains shall be purple colored C900 PVC or ductile iron pipe encased within a purple polyethylene sleeve.
 - E. Alternately transmission/ distribution piping in the recycled water system, including service lines, valves, and other appurtenances can be colored purple, Panatone 522C, and embossed or be integrally stamped/marked CAUTION: RECYCLED WATER - DO NOT DRINK, or be installed with or a purple polyethylene vinyl wrap, color to be Panatone 512C.
 - F. All service lines shall be encased within a purple colored polyethylene sleeve.
3. The recycled water system shall be installed to maintain a separation from the domestic water system as shown on MNWD standard drawing W-14.
4. All "valve cans" on off-site recycled water facilities shall be circular in shape with the word "RECYCLED" cast thereon, constructed and marked per the MNWD standard drawing W-8.
5. All main line valves shall be accessible during tract development. All valve stem tops having over 48-inch cover to have an extension installed per MNWD standard drawing W-8.
6. The top of the non-potable pipe shall be a minimum of 48" below the finished street surface and 52" below finished surface on all state highways.
7. An encroachment permit from the city having jurisdiction is required prior to any work within public right-of-way or easement.

END OF SECTION