

## SECTION 1433

### RECLAIMED WATERLINES

#### 1433.0100 GENERAL

**1433.0101 Description of Work.** The work under this section shall consist of furnishing all labor, tools, and equipment required to install reclaimed waterline including pipe, fittings, valves, and all other appurtenances in accordance with approved plans, plan details, and the requirements of these specifications and details.

This specification will identify the requirements for reclaimed water installations. All installations must follow the latest revisions of the appropriate AWWA and ANSI Standards.

#### 1433.0300 EXECUTION

##### 1433.0301 General.

(A) **Utility separation.** Reclaimed waterlines will be treated as sewer when crossing on adjacent to potable waterlines.

Reclaimed waterlines will be treated as potable when crossing or installed adjacent to sewer lines.

Reclaimed and potable services shall have a minimum six feet of separation.

(B) **Pipe marking tape and pipe detection tape.** Pipe marking tape and pipe detection tape shall be purple and the warning message on the tape shall refer to "Reclaimed Waterlines" in accordance with Section 0210.

(C) **Ductile Iron Pipe.** Ductile iron pipe for reclaimed waterlines shall have a double thickness cement mortar interior lining in accordance with Section 1401.

(D) **Polyvinyl Chloride Pipe.** Polyvinyl chloride pipe for reclaimed use shall be purple in color and conform to C-900, C-905, and Section 1404.

(E) **High Density Polyethylene Pipe.** HDPE for reclaimed shall have a purple stripe and comply with Section 1404.

(F) **Valve Boxes.** Reclaimed valve boxes shall be in conformance with SD300.

(G) **Testing and Flushing Reclaimed Waterlines.** Reclaimed waterlines will be filled, flushed and tested with potable water. Chlorination of reclaimed waterlines is not required.

Discharge of reclaimed water requires a permit from Arizona Department of Environmental Quality (ADEQ).

(H) **Installation of Water Meters, Meter Boxes and Service Lines.** Water Meters for use on Reclaimed Waterlines will be installed by Tucson Water forces only.

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Installation of meters will require a backflow test performed by Tucson Water prior to installation of reclaimed meters.

Water meters will be painted purple in color.

Water meter boxes will be painted purple in color on the inside of the box.

Water meter boxes will have the letters "RW" welded or cast into the meter box lid. The letters will be 3" in height and the lid will be painted purple.

Reclaimed service lines will be wrapped with reclaimed detection tape. Tape will extend into the meter box and be taped to the meter stop or stops. Tracer wire must be installed according to Standard Detail SD 310 Note 7.