

## DIVISION 2 – SITEWORK

### Section 02620 – Site Potable Water and Reclaimed Water Utilities

#### Introduction

Piping of site utilities

POTABLE WATER, RECLAIMED WATER

#### Part 1 - General

- Refer to Section 15050 common piping materials and methods.
- Refer to Section 15980 for meter requirements.

#### Part 2 - Products

- Pipe Schedule:

<u>Service</u>	<u>Size</u>	<u>Pipe</u>	<u>Fittings</u>	<u>Joints</u>
Potable and Reclaimed Water	Up to 3"	PVC-Sch. 40	PVC	Glued
	4" to 12"	PVC- C900 or Ductile iron	PVC Ductile iron	Push-on, mechanical jt
	Over 12"	Ductile iron	Ductile iron	Push-on, mechanical jt

- Pipe
  - Ductile iron pipe and fittings to be cement mortar lined (interior) and coated with bituminous material (exterior) per AWWA. Mortar lining for reclaimed systems shall be double thickness.
  - PVC pipe, AWWA C900.
  - Reclaimed Water- PVC pipe shall be purple (Panatone 522C). Ductile iron pipe shall be encased in purple polyethylene.
- Valves - Buried
  - Potable- For pipe over 12" Butterfly valve conforming to AWWA C504.
  - Reclaimed Water- For pipe over 12" Butterfly valve conforming to AWWA C504.
  - Resilient- Seat gate valves for pipe up to 12".
- Joint Restraint Devices
  - Ductile iron mechanical joints –Megalug joint restraint.
  - Ductile iron flange connection –Megaflange joint restraint flange adapter.
  - Integral ductile iron joint – TR Flex restrained joint.
  - PVC pipe – EBBA Iron Sales Series 1700.

- Valve Boxes – cast iron box and cover.
- Air Relief Valve Vaults – cast in place concrete with 30" diameter cover.
- Air Relief Valves – APCO Series 140C, cast iron body, SS float, SS lever, Buna –N seat.

### **Part 3 - Execution**

- Potable water
  - Installation shall be per Tucson Water Standards.
- Reclaimed water
  - Installation shall be per Tucson Water Standards.
- Testing- Hydrostatic, no leakage permitted@100 psig for 4 hours, witnessed by UA Inspector before joints are concealed.

### **End of Section 02620**