ROGERS WATER UTILITIES WATER SYSTEM ROGERS, ARKANSAS

SPECIFICATIONS FOR GRAY-IRON AND DUCTILE-IRON FITTINGS AND COUPLINGS REVISED DECEMBER 2004

1. **SCOPE**

This specification covers 4" through 64" in size designed and manufactured for use with gray-iron, standard/compact fittings, anchor fittings and couplings.

2. GENERAL REQUIREMENTS FOR FITTINGS

- a. Except as otherwise modified or supplemented herein, the latest revision of ANSI A21.10/AWWA C110 (full body) for Gray-iron and Ductile-Iron Fittings, 4 inch through 64 inch for Water and other Liquids and ANSI A21.53/AWWA C153 (compact body) for Ductile-Iron Compact Fittings, shall govern the design, manufacture, and testing for all fittings under this specification.
- b. For 4" through 24-inch size range, the pressure rating of all fittings shall be a minimum of 350 psi. The working pressure for all fittings of size greater than 24 inches shall be a minimum of 250 psi.
- c. Fittings shall be furnished with the types of end combination specified.
- d. Anchor fittings shall be furnished in size and type or length as specified, and shall conform to ANSI A21.53/AWWA C153.
- e. Flanged fittings have 150 lb. flanges and shall be faced and drilled in accordance with ANSI Specification B16.1, Class 125.
- f. The exterior of all fittings shall be provided with a petroleum asphaltic coating in accordance with the latest revision of AWWA C110. The interior of flanged fittings supplied under this specification shall be cement-mortor lined with seal cost in accordance with the latest revision of AWWA Standard as specified. The interior of all other fitting supplied under this specification shall be cement-mortar lined in accordance with the latest revision of ANSI A21.04/AWWA C104.
- g. All fittings shall be domestically manufactured.

GRAY-IRON AND DUCTILE-IRON FITTINGS AND COUPLINGS 02-02 SPECIFICATIONS

2. GENERAL REQUIREMENTS FOR COUPLINGS

- a. Couplings shall be made of ductile iron (full body) with mechanical joint (MJ) ends. Coupling shall conform to ANSI/AWWA C110/A21.10 and ANSI/AWWA C111/A21.11.
- b. The minimum length of a coupling is 8 inch.
- c. Standard mechanical joint tee-bolts and nuts shall be high strength steel conforming to AWWA C111/A21.11-90 and C153/A21.53-88.
- d. Coating of the coupling shall be provided with a petroleum asphaltic coating in accordance with the latest revision of ANSI/AWWA C151/A21.51.
- e. Where specifications state a cast transition or reducing coupling in place of a straight coupling, the sleeve and follower flange shall be of the same manufacturer and compatible for the specific used intended.
- f. The coupling shall be designed for a minimum working pressure as follows:

<u>Pipe Diameter</u>	Minimum Working Pressure
12" and smaller	200 psi
18"	175 psi
24" and larger	150 psi

g. All ductile iron couplings shall be domestically manufactured.

The following manufactures are approved for fittings and couplings.

APPROVED MANUFACTURERS LIST

American Cast Iron Pipe Company

Tyler Pipe Company

Clow Valve Company

McWane Cast Iron Company

Mueller Company

Previous Specifications

April 16,1997