

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

MATERIAL SPECIFICATION
MS-204: “CONCRETE PIPE”

204.1 SCOPE

This specification governs the quality of non-reinforced and reinforced concrete pipe.

204.2 NON-REINFORCED PIPE

The American Society of Testing Materials, ASTM, specifications applicable for concrete pipe are:

- a. Irrigation pipe. The pipe with rubber gasket joints shall conform to the requirements of ASTM C-505.
- b. Irrigation or drainage pipe. The pipe with motor joints shall conform to the requirements of ASTM C-118.
- c. Drain tile. The pipe shall conform to the requirements of ASTM C-412.
- d. Perforated pipe. The pipe shall conform to the requirements of ASTM C-444.
- e. Culvert pipe. The pipe shall conform to the requirements of ASTM C-14 for the class of pipe specified on the drawing.

204.3 REINFORCED PIPE

- a. Round pipe. Round reinforced concrete culvert pipe shall conform to the requirements of ASTM C-76, C-361 or C-655 for the class of pipe specified on the drawing.
- b. Arch pipe. Reinforced concrete arch culvert pipe shall conform to the requirements of ASTM C-506 for the class of pipe specified on the drawing.
- c. Elliptical Pipe. Reinforced concrete elliptical culvert pipe shall conform to the requirements of ASTM C-507 for the class of pipe specified on the drawing.

204.4 RUBBER GASKET JOINTS

When rubber gasket joints are specified, the joints and gaskets shall conform to the requirements of ASTM C-443.