

**NATURAL RESOURCES CONSERVATION SERVICE**  
**CONSERVATION PRACTICE SPECIFICATION**  
**IRRIGATION SYSTEM - MICROIRRIGATION**  
(no. and acre)  
**CODE 441**

**SCOPE**

This specification covers the installation of trickle irrigation systems. The installation shall be in accordance with the construction plans for the system and these specifications.

**INSTALLATION**

**Materials.** All lateral lines, submains, emitters, fittings, filters, valves, vacuum breakers, pressure regulators and other system components shall be of the size and type of material as specified on the plans.

**Placement.** Lateral lines and emitters shall be installed to the lines, grades, and spacings as shown on the plans.

All joints and connections shall be made so as to withstand the design maximum working pressure for the system without leakage and shall leave the inside of the pipelines free of any obstructions that may tend to reduce the capacity below design requirements.

All fittings shall be installed in accordance with recommendation of the manufacturer.

**Testing.** The applicator or emitter lateral lines shall be thoroughly and completely tested for pressure strength and leakage. For strength and leakage tests, the lateral lines shall be filled with water, taking care to bleed all entrapped air in the process. The pressure shall be slowly built up to the maximum design working pressure. The lines shall be inspected in their entirety while the maximum pressure is maintained. Where leaks are discovered, they shall be promptly repaired and the line shall be retested.

**Workmanship.** All construction shall be performed in a workmanlike manner, and the job site shall have a neat appearance when finished.

All disturbed areas not graveled or paved will be vegetated to control erosion.

**CONSTRUCTION OPERATIONS**

Construction operations shall be carried out in such a manner and sequence that erosion and air and water pollution are minimized and held within legal limits.

The owner, operator, contractor or other persons will conduct all work and operations in accordance with proper safety codes for the type of construction being performed with due regards to the safety of all persons and property.

## **SAFETY**

Landowners or operators, sponsoring organizations, and contractors shall be liable for damage to utilities and damage resulting from disruption of service caused by construction activities. The Natural Resources Conservation Service makes no representation on the existence or non-existence of any utilities. Absence of utilities on the drawings is not assurance that no utilities are present at the site.

It is the responsibility of the landowner or operator to determine if there are buried or overhead utilities in the vicinity of the proposed work. They should take proper procedures to insure that the utilities shall not be jeopardized and that equipment operators and others will not be injured during construction operations.