

Prepared for: \_\_\_\_\_

Prepared by: \_\_\_\_\_

Farm: \_\_\_\_\_ Tract: \_\_\_\_\_ Date: \_\_\_\_\_



A livestock pipeline under construction.

**DEFINITION**

The NRCS pipeline practice is used when a pipeline is needed to convey water for livestock, recreation or wildlife.

**PURPOSE**

To convey water from a source of supply to points of use for livestock, wildlife, or recreation.

**CRITERIA**

It shall be the responsibility of the owner/lessee to obtain all necessary permits and/or rights, and to comply with all Federal, state, and local laws pertaining to this installation, particularly if water from the pipeline is to be used for human consumption.

For livestock water, the installation shall have a capacity to provide seasonal high daily water requirements for the number and species of animals to be supplied.

For recreation areas, the water capacity shall be adequate for all planned uses. Typical examples are drinking water, fire protection, showers, flush toilets, and irrigation of landscaped areas.

Additional water capacity will be provided for wildlife when applicable.

Pipelines shall be placed so that they are protected against hazards imposed by traffic, farm operations, freezing temperatures, or soil cracking.

Disturbed areas shall be established with vegetation or otherwise stabilized as soon as practical after construction.

**Plans and Specifications**

Plans and specifications shall be prepared for the specific field sites in accordance with the Pipeline NC NRCS Practice Standard (516) and shall describe the requirements for applying the practice to achieve its intended uses. This plan is attached or will be received

\_\_\_\_\_ Do not begin construction without NRCS or District approval.

Plant Materials information for Pipeline (if applicable):

Not applicable.

Species	Permanent (P) or Temporary (T)	Seed (PLS) lbs./ac. or lbs./1000 sq. ft.	Mulch lbs./ac. or lbs./sq. ft.	Planting Dates

A. Fertilizer and Lime

- a. Fertilize and Lime according to current soil tests.

B. Site Preparation

- a. Site preparation (including removal of rocks, stumps and other obstructions) shall be the minimum necessary to ensure close contact of seeds or sprigs with the soil and to ensure safe and efficient operation of equipment.
- b. Herbicide may be used to control competing growth, but it is still critical to keep competing vegetation height to a minimum.
- c. Where conventional tillage seedbed preparation is necessary, prepare the seedbed across the dominant slope.
- d. The conventionally prepared seedbed should be firm enough to permit seed placement at the desired depth and protect against erosion. A firm seedbed should hardly reveal adult footprints. This will allow for placement of the seeds at a depth of  $\frac{1}{4}$  to  $\frac{3}{4}$  of an inch into the soil.

## Pipeline – Operation and Maintenance Requirements

Landowner: \_\_\_\_\_ Field Number: \_\_\_\_\_

This practice will require periodic maintenance and may also require operational items to maintain satisfactory performance. Your operation and maintenance program includes:

- Maintain the design depth of cover over the pipe system. All settlement or cracks in the soil should be investigated to determine their cause and immediately repaired. Excessive settlement or voids in the line present a hazard to livestock and should be backfilled and compacted immediately.
- Avoid travel by heavy equipment over pipelines when the soil is saturated except at designed crossings. Limit traffic to sections that were designed for traffic loads. Avoid any sub-soiling operation that may disturb or destroy the pipeline.
- Inspect and test valves, pressure regulators, pumps, switches and other appurtenances regularly to ensure proper operation. Repair and replace as necessary. Open and close valves slowly to prevent excessive water hammer.
- Drain and/or provide for cold weather operation of the system.
- Remove all foreign debris, minerals, algae and other materials that may hinder the system operation.
- Maintain all outlets, rodent guards, inlets and access man-holes in good operating condition and free of erosion.
- Eradicate or otherwise remove all rodents and/or burrowing animals that have damaged or can potentially damage any part of the system. Immediately repair any damage caused by their activity. Immediately repair any vandalism, vehicular or livestock damage to any outlets and appurtenances.

Additional operations and maintenance requirements specific to this plan:

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