

**NATURAL RESOURCES CONSERVATION SERVICE  
CONSTRUCTION SPECIFICATIONS**

**WATER AND SEDIMENT CONTROL BASIN**

**1. Scope**

The work shall consist of all construction operations and furnishing all materials as required by the construction plans and specifications for the complete installation of the work.

**2. Location**

The location of the basin shall be as shown on the construction plans or as staked in the field.

**3. Site Preparation**

All dead furrows, ditches, and gullies shall be filled prior to or as a part of construction. Old terraces, fencerows, brush, and tall-standing vegetation shall be removed from the area occupied by the basin ridge and the area from which the earthen construction material will be taken.

For fill heights of 6 feet and greater, the foundation area of the ridge will be thoroughly scarified to a minimum depth of 4 inches before placement of the fill material and before moisture is added, if necessary, so that the first layer of fill material can be bonded to the foundation.

**4. Materials**

Materials for earthfill shall be obtained from excavation in the channel or other designated areas and shall be free of objectionable materials such as brush, roots, and rock particles that would endanger the performance of the basin.

**5. Placement of Earthfill**

Basins shall be constructed to the dimensions specified on the construction plans or as staked in the field. All fills shall be full-bodied with the cross section conforming to that specified at all stations. Basin fill constructed across gullies or depressions shall be compacted by travel with wheel-type machinery to ensure adequate density. The basin, side slopes, ridges, cut areas, and fill areas shall be finished to a smoothness as specified.

Where necessary for restoration of soil productivity, topsoil is to be stockpiled and spread. Stockpiled topsoil strippings will be placed on the outer portion of the embankment as a part of each lift. Topsoil shall not be less than 6 inches or more than 2 feet thick measured vertically and shall be compacted concurrently with the earthfill. Placement of earthfill, specifically around the outlet and through the embankment, shall be consistent with the procedure specified in Construction Specifications 620, Underground Outlet.

**6. Outlets**

All outlets shall be installed at locations as shown on the construction plans or as staked in the field.

## **7. Measurement**

The volume of earthfill completed as specified will be determined from the design dimensions as staked in the field. The design dimensions shall be measured from the surface of the foundation prior to stripping to the specified neat lines of the settled fill surface. Volumes will be computed to the nearest cubic yard.

## **8. Construction Details**