NATURAL RESOURCES CONSERVATION SERVICE

CONSTRUCTION SPECIFICATIONS

SEDIMENT BASIN

1. Scope

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

2. Location

The location of all components of the sediment 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 part of construction. Old terraces, fence rows, 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 compaction. The basin, side slopes, ridges, cut areas, and fill areas shall be finished to a surface smoothness as specified.

When 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 that 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.

Moisture content of the fill material shall be adequate for obtaining compaction. Material that is too wet shall be dried to meet this requirement or removed. Material that is too dry to obtain adequate compaction shall have water added and mixed until the requirement is met. The material should maintain a ball shape when squeezed in the hand.

The placing and spreading of fill material shall be started at the lowest point of the foundation and the fill brought up in horizontal layers not exceeding 8 inches thick. Earthmoving or compaction equipment shall be operated over each layer so that the required compaction is obtained.

6. Outlets

All outlets shall be installed at locations as shown on the construction plans or as staked in the field. All outlets shall be installed according to the requirements of Construction Specifications 378, Pond (Excavation), or Construction Specifications 620, Underground Outlet.

7. Seeding and Fencing

The planting of vegetative materials shall conform to the requirements of Construction Specifications 342, Critical Area Planting. Any required fencing shall conform to the requirements of Construction Specifications 382, Fence.

8. 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 and the specified neat lines of the settled fill surface. Volumes will be computed to the nearest cubic yard.

9. Construction Details