

CONSTRUCTION SPECIFICATIONS

NATURAL RESOURCES CONSERVATION SERVICE

Water and Sediment Control Basin

Scope

This work includes the clearing, excavation, earthfill, pipe outlet and other appurtenances required for the construction of the water and sediment control basin(s). Conduct construction operations in a manner that will minimize erosion, air, water and noise pollution and comply with all federal, state and local laws and regulations.

Obstruction Removal

Remove all brush, trees, stumps, fences and other objectionable material from the work area. Dispose of the material at a location that will not adversely affect the construction or proper function of the water and sediment control basin(s).

Earth Embankment

Construct the embankment to the specified lines and grades with no bank projections, abrupt changes or other irregularities in the shape. Overbuild the top of the embankment a minimum of 5% to allow for settlement.

Use fill material that is free of roots, large stones, and other objectionable material to construct the embankment. Moisture content in the fill at the time of placement should be at or above the optimum moisture content of the fill material. Use fill material moist enough that a firm ball can be formed with the hand using the material, but dry enough that the fill will not "pump" when traversed by the hauling equipment.

Place the fill in uniform horizontal layers. Compact the fill using a minimum of 4 passes of the hauling equipment over the entire surface of the fill.

Excavation

Finish excavated surfaces to a smooth uniform slope that can be properly vegetated and maintained. Material excavated from the basin area can be used in the fill, if it meets the requirements noted above. Dispose of material that can not be used in the fill by placing and spreading in a location that will not interfere with the operation of the basin.

Pipe Outlet

Using the quality of material specified for the pipe outlet, install the outlet to the lines and grades shown in the plans. Place the conduit on a firm bed to the grade shown on the plans. Place backfill around the conduit in layers not exceeding 6 inches thickness. Thoroughly compact each layer using a hand or manually directed power tamper. Do not cross the conduit with heavy equipment until 2 feet of hand compacted material is placed over the pipe.

Pollution Control

Conduct construction operations in a manner that minimizes erosion and air and water pollution. Erosion and sediment control best management practices may include silt fence, hay bales, temporary vegetation, mulching and phased construction.

Vegetation

Strip topsoil from the work area and stockpile the material to be used to provide a seedbed after construction is complete. Establish vegetation on all disturbed areas, that will not be cropped, according to the vegetation plan.