

**NATURAL RESOURCES CONSERVATION SERVICE
CONSTRUCTION SPECIFICATIONS**

WATER AND SEDIMENT CONTROL BASIN

(No.)
Code 638

SCOPE

This item shall include the clearing, excavation, earthfill, principal spillway and other appurtenances required for the construction of water and sediment control basins. Construction operations shall be carried out in such a manner that erosion, air, water and noise pollution will be minimized and held within legal limits as established by state or local regulations.

OBSTRUCTION REMOVAL

All brush, trees, stumps, fence rows, and other objectionable material shall be removed and disposed of in such a way that they will not interfere with constructing and proper functioning of the water and sediment control basin.

CROSS SECTION

The sediment and water control basin shall be shaped or constructed to the specified dimensions and shall be free of bank projections, abrupt changes, and other irregularities.

Topsoil shall be stockpiled and spread where necessary to provide a seedbed for the vegetation.

DISPOSAL

All earth removed and not needed in construction shall be spread or disposed of in such a way that it will not interfere with the functioning of the water and sediment control basin. All portions of the sediment and water control basin shall be finished and smoothed in a workmanlike manner such that applied vegetative cover can be properly maintained.

FILL

Fill material shall be free of roots, large stones and other objectionable material. The moisture content of fill material shall be such that bonding and compaction are attained to prevent uneven settlement that would cause damage in the completed water and sediment control basin. The settlement factor shall be a minimum of 5 percent, except that this shall be increased to 10 percent for ridges constructed with equipment such as bulldozers.

PRINCIPAL SPILLWAY

All components of the principal spillway including the barrel, riser, and trash rack shall be of the quality specified and constructed as shown on the plans.

The pipe conduit barrel shall be placed on a firm foundation to the lines and grades shown on the plans. Selected backfill material shall be placed around the barrel and its component parts in layers not exceeding 6 inches in thickness. Each successive layer shall be thoroughly compacted by hand or power tampers. Heavy equipment shall not cross over the pipe conduit barrel until 2 feet of hand compacted material has been placed over the pipe.

POLLUTION CONTROL

Construction operations shall be carried out so that erosion and sediment control is addressed, and air and water pollution is minimized. This may include such items as silt fence, hay bale barrier, temporary vegetation, mulching, etc.

VEGETATION

Vegetation will be established as specified in the vegetative plan.