

CONSTRUCTION SPECIFICATION

PA 638-WATER AND SEDIMENT CONTROL BASIN

1. SCOPE

The work shall consist of furnishing materials and installing all components of the water and sediment control basin, as outlined in this specification and the drawings.

2. MATERIALS

EARTHFILL used in constructing the water and sediment control basin shall be obtained from the basin excavation areas, or other sources approved by the designer.

PIPE, pipe sizes, fittings and other necessary pipe material shall be as specified on the drawings or in Section 7 of this specification, when applicable.

OTHER required materials shall be as shown in the drawings or in Section 7 of this specification.

3. SITE ACCESS AND CLEARING

All dead furrows, ditches, or gullies shall be filled before constructing the water and sediment control basin or shall be part of the construction. All old terraces, fence rows, hedge rows, trees, and other obstructions shall be removed, as necessary, to install a farmable system. Tree and brush removal shall be done in such a manner to prevent damage to other trees and property, and to minimize erosion. Unless otherwise specified in Section 7, all cleared materials, including trash, shall be burned or removed from the site. Burning shall comply with all state and local applicable regulations.

4. GRADING

The water and sediment control basin shall be constructed according to planned alignment, grade, and cross section with the specified overfill for settlement and the channel graded to promote positive drainage. Any ditch or depression at the bottom of the back slope shall

be filled and smoothed so that drainage will be away from the embankment and not parallel to it.

Surfaces which have been over-excavated shall be brought to the planned grade by replacement with soils similar to, and at a density equal to, that of the adjacent soils. Unless otherwise set forth in Section 7, fill that is required to be imported to the site shall be similar to, and placed at a density equal to, that of the adjacent soils, except that areas to be vegetated shall receive topsoil approved by the Engineer. Excess soil material shall be disposed of as set forth in Section 7 or shown on the drawings.

The surface of the finished water and sediment control structure shall have a smooth workmanlike finish. If necessary, topsoil shall be stockpiled and spread over excavations and other areas to facilitate restoration of productivity.

5. STRUCTURAL INSTALLATION

Structures shall be installed as set forth in Section 7, as shown on the drawings, and in such a manner as to minimize erosion and sedimentation.

Provisions must be made to prevent piping and settlement where underground conduits are located under embankments. Backfill shall be placed in successive layers of not more than six inches, and each lift compacted before the subsequent layer wherever terraces, diversions, or other water and sediment control structures are planned.

6. VEGETATION

Vegetation, if required, shall be established at the locations shown on the drawings and/or staked in the field. Additional measures may be required to assure stability during establishment of vegetation with earthen outlets. See requirements set forth in Section 7.

**7. ADDITIONAL CONDITIONS
WHICH APPLY TO THIS PROJECT
ARE:**