

CONSTRUCTION SPECIFICATION

ND-3 DIVERSION

1. SCOPE

The work shall consist of constructing a channel across the slope, with a supporting ridge on the lower side.

2. BASE PREPARATION

The base for the diversion shall be prepared so that a good bond is obtainable. The ridge base shall be scarified. Unsuitable materials shall be stripped and will be disposed of at locations designated by the owner and approved by the Soil Conservation Service Representative (SCSR).

3. EXCAVATION

Excavation shall be to the lines and grades shown on the drawings or as staked by the SCSR in the field. The excavated material from the diversion channel shall be used to construct the diversion ridge. Over-excavation will be required if the channel needs to be topsoiled.

4. EARTH FILL

All material shall be obtained from the required excavations and/or from designated borrow areas. The fill material shall be free from frozen particles, brush, roots, sod or other objectionable material and rocks larger than 6 inches. Existing slopes shall be 1:1 slope or flatter and scarified to insure bonding with the fill being placed. Fill will be placed in approximately uniform horizontal layers not more than 9 inches thick. The moisture content of the fill material shall be such that, when kneaded in the hand, the soil forms a ball which does not readily separate.

The fill sections shall be compacted by either:

- (a) Routing the hauling and spreading equipment over the fill in such a manner that the entire surface of each layer of fill will be traversed by not less than one tread track of the equipment, or
- (b) Equivalent methods approved by the SCSR.

Any deviations from the earth fill placement requirements listed above will require prior approval of the SCSR.

5. TOPSOILING

Topsoil shall be removed before construction and replaced on diversion to the extent and depth shown in the specification notes on Form ND-ENG-35. The underlying soil will be scarified, if necessary, to permit proper bonding of topsoil.

6. APPURTENANT STRUCTURES

Appurtenant structures such as underground outlets shall be installed in accordance with specifications furnished for those items.

7. FINISH AND CLEANUP

The diversion will be finished so it is in a relatively smooth condition ready for seeding. All rocks 6" in diameter or larger shall be removed from the diversion. They will be disposed in a manner approved by the owner and/or SCSR.

8. MEASUREMENT

The volume of excavation or fill will be measured and computed to the nearest cubic yard by the method of average cross sectional end area unless specified otherwise in the specification notes on Form ND-ENG-35. The upper limit for excavation shall be the original ground surface. The lower and lateral limits for excavation shall be the lines and grades as staked or specified by the SCSR.

For earth fill, the upper limits shall be the lines and grades as staked or specified by the SCSR. The lower limits shall be the original ground surface.