

NATURAL RESOURCES CONSERVATION SERVICE CONSERVATION PRACTICE SPECIFICATION

DIVERSION

(Acre)
CODE 362

1. SITE PREPARATION

All ditches or gullies not filled, and undesirable trees and other obstructions not removed before construction begins, shall be part of the diversion construction.

Clearing. All trees, brush, stumps, roots, rocks and other objectionable materials shall be removed from the site and disposed of to prevent interference with the construction or proper functioning of the diversion or outlet.

Topsoil. At least the top six inches of topsoil shall be removed, stockpiled, and subsequently spread over all disturbed areas of the finished subgrade to facilitate re-vegetation.

Foundation Preparation. Following the satisfactory completion of clearing operations and soil stockpiling, the entire foundation area shall be scarified to present a roughened condition before any fill material is placed.

The walls of all gullies or depressions to be crossed by the diversion shall be sloped to a 1:1 or flatter slope.

2. EARTHFILL

Fill Material. All fill material shall be obtained from the upstream channel or such borrow areas as specified by the Natural Resources Conservation Service Technician. All fill material shall be free of sod, grass, or other material unsuitable for making compacted fills.

Fill Placement. The placing and spreading of fill materials shall be brought up in horizontal lifts not to exceed a depth of eight inches before compaction.

Moisture Requirement. All fill material shall have sufficient moisture that a sample taken in the hand and squeezed shall remain intact when released. Moisture content of the fill material must be adjusted so as to meet this requirement. When water is added to fill

material, the fill material shall be mixed by an approved method to obtain uniform moisture distribution before compacting.

Compaction. Unless otherwise specified, compaction obtained through normal equipment routing shall be considered adequate when the moisture requirement is met.

3. CONSTRUCTION TOLERANCES

Diversions shall be installed to the neat lines and grades shown on the drawings within the following tolerances:

Section. All cross-sections of the completed diversion shall equal or exceed the neat lines as shown on the design.

Ridge Elevation. The as-built ridge elevation shall equal or exceed the neat line elevation shown on the design.

Side Slopes. All constructed side slopes of the diversion ridge shall be full-bodied; i.e., straight or convex, from the edge of the crest to the toe of the slope. Slopes designed at 2:1 shall have no slope length steeper than 1-1/2:1. Slopes designed at 3:1 shall have no slope length steeper than 2-1/2:1. All side slopes of the constructed diversion channel shall be equal to or flatter than the design channel side slopes.

Channel Grade. When constructed as a channel type diversion the channel elevation shall not be more than 0.1 foot above grade.

Appearance. The surface of the finished diversion shall be reasonably smooth and present a workmanlike appearance.

4. MEASUREMENT

The length of diversion to be certified will be measured to the nearest 1.0 foot along the channel centerline if designed as a channel diversion or along

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the ridge centerline if designed as a ridge-type diversion.