

## CONSTRUCTION SPECIFICATION

### MI-108. GRASSED WATERWAY

#### 1. SCOPE

The work shall consist of all excavations, shaping, grading, and earthfills required to construct the grassed waterways as shown on the drawings or as staked in the field.

#### 2. MATERIALS

All earth material used in construction of the grassed waterways shall be obtained from the required excavation and designated borrow areas. The fill material shall be free from frozen particles, brush, roots, sod or other objectionable material, and rock particles larger than 6 inches in diameter.

#### 3. FOUNDATION PREPARATION

The foundation area of required fill sections shall be cleared and grubbed, and stripped of unsuitable material prior to placing fill. Available topsoil shall be salvaged and stockpiled for later spreading. Vertical banks shall be cut to a 1:1 or flatter slope.

#### 4. PLACEMENT

Earthfill material shall not be placed until the required foundation preparation is complete, inspected, and approved for placement. Earthfill shall not be placed upon a frozen surface. Earthfill shall be placed in horizontal layers not exceeding 9 inches in thickness. The moisture content of the earthfill materials shall be sufficient to obtain firm and suitable compaction. Compaction shall be obtained by routing the hauling and spreading equipment over the earthfill material so that the entire surface of each layer is traversed by not less than one track tread of the loaded equipment, or equivalent methods approved by the NRCS inspector.

#### 5. EXCAVATION

Excavation shall be to the lines and grades shown on the drawings or as staked in the field. All surplus or unsuitable excavated materials shall be disposed of at the locations shown on the drawings or at locations approved by the NRCS inspector.

#### 6. TOPSOIL SPREADING

Stockpiled topsoil shall be spread on the waterway flow area to a depth of not less than 3 inches unless otherwise approved by the NRCS inspector. Spreading shall not be done when the ground or topsoil is frozen, excessively wet or otherwise in a condition detrimental to the work. After placement is complete the topsoil surface shall be finished to a reasonably smooth surface.

#### 7. SEEDING

During and/or immediately following construction, the waterway shall be prepared, fertilized, seeded, and mulched in accordance with the Construction Specification 166, Seeding.