

Construction Specification 727 – Diversion and Waterways

1. Scope

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

2. Material

Earth material used in constructing the diversions and/or waterways shall be obtained from required excavation or from designated borrow areas approved by the NRCS representative. Material for earthfills shall be free from frozen material, brush, roots, sod, stones over 6 inches in diameter, or other objectionable material.

3. Foundation preparation

The foundation for earthfill shall be stripped to remove vegetation and other unsuitable materials or shall be excavated as specified. Available topsoil shall be salvaged and stockpiled for later spreading.

4. Placement

Earthfill material shall not be placed until the required foundation preparation is complete, inspected, and approved for placement by the NRCS representative. Earthfill shall not be placed upon a frozen surface. Earthfill shall be placed in horizontal layers not exceeding nine (9) inches in thickness. The moisture content of the earthfill materials shall be sufficient to obtain firm and suitable compaction. Each lift of earthfill shall be compacted by traversing the entire surface four (4) times with the wheel or track of the hauling and spreading equipment, or equivalent method approved by the NRCS representative.

5. Excavation

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

6. Topsoil Spreading

Topsoil shall consist of friable soil reasonably free of grass, roots, weeds or other foreign materials. Stockpiled topsoil shall be spread on the diversion and/or waterway flow area to a depth of not less than 3 inches unless otherwise approved by the NRCS representative. Surfaces to be covered shall be lightly scarified just prior to the spreading operation. 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.