

Practice Specification Heavy Use Area Protection (Code 561)

1. Scope

The work shall consist of all construction operations and furnishing all materials as required by the construction plans and specifications for installation of a heavy use area protection.

2. Location

The location of the work shall be as shown on the plans or as staked in the field.

3. Site Preparation

Undesirable material (such as large stones, rubbish, trees, organic material, mud, and other objectionable material) shall be removed from within the footprint of the heavy use area and be disposed of as shown on the plans, or as specified in Section 10, "Construction Details."

4. Excavation

All excavations shall conform to the lines, grades, and elevations shown on the plans or as staked in the field. Excavations to depths greater than the planned depth shall be allowed to remove unsuitable subgrade material, as necessary.

Excavated material shall be used, or disposed as shown on the plans, as specified by a Natural Resources Conservation Service (NRCS) representative, or in Section 10, "Construction Details." All excavation shall be accomplished in a manner which produces minimal adverse effects on the surrounding area.

5. Earthfill

The foundation area shall be scarified to a minimum depth of four (4) inches before the fill material is placed. Fill material shall be free of sod, roots, frozen soil, stones over six (6) inches in diameter, and other objectionable material. The material shall have adequate moisture so that a ball that does not readily separate may easily be formed by hand. Compact the material with a minimum of two (2) passes of earthmoving equipment or as specified in Section 10, "Construction Details."

The distribution and gradation of materials shall be such that there will be no lenses, pockets, streaks, or layers of material differing substantially in texture or gradation from the surrounding material.

The completed work shall conform to the lines, grades, and elevations shown on the plans or as staked in the field.

6. Geotextile

Geotextile installation is optional based on the practice use and soil considerations. Geotextile requirements shall be specified by the designer in Section 10, "Construction Details." Heavy use areas for slope protections shall conform to Material Specification 592, Nonwoven Geotextiles, Class I. Heavy use areas for road stabilizations (access/feed roads, feeding areas, etc.) shall conform to Material Specification 592, Nonwoven Geotextiles, Class IV.

Place the geotextile between rock and soil interfaces as shown on the plans. Install and anchor geotextile according to manufacturer's recommendations. Unless otherwise specified, use a minimum lap of six (6) inches, if the filter fabric is installed in more than one piece. Place the length of fabric perpendicular to the direction of water flow, unless otherwise indicated on the plans.

7. Rock

Rock size and/or gradation shall be as specified on the plans. Rock quality shall be based on either of the following criteria:

1. Evidence from existing projects demonstrates that the aggregate proposed for this application (or material from a similar source) has performed adequately in a similar installation for a period of at least ten (10) years or more. This determination shall be made by an NRCS or partner employee with job approval authority for design of the practice.

2. Rock testing is based on NRCS Material Specification 523 or Kansas Department of Transportation (KDOT) testing. In such cases, the rock shall meet the following criteria:
 - minimum specific gravity of 2.3 (saturated, surface-dry)
 - maximum absorption of 4%
 - minimum freeze and thaw (F&T) soundness ratio of 85%

8. Vegetation

A protective cover of vegetation shall be established on all exposed soil surfaces. Seedbed preparation, seeding, fertilizing, mulching, or other vegetation shall be as specified on the Form KS-ECS-4, Grass Seeding.

9. Measurement

The measurement will be the cubic yards of aggregate material installed as measured to the nearest 0.1 cubic yards.

10. Construction Details

Specific Site Requirements