

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, EDITION 2015**

Delete SECTION 905 and replace with the following:

SECTION 905

MULCHING

905.1 DESCRIPTION

Provide and uniformly place mulching materials as shown in the Contract Documents.

BID ITEMS

Mulching
Mulching Tacking Slurry
HECP*

UNITS

Tons
Pound
Pound

* Hydraulic Erosion Control Products Type

905.2 MATERIALS

Provide materials that comply with the applicable requirements.

Mulch, HECP and Mulching Tacking Slurry **DIVISION 2100**
Water **DIVISION 2400**

905.3 CONSTRUCTION REQUIREMENTS

a. Mulching. Place and punch the mulch immediately after the fertilizing and seeding operations. Do not allow the mulching operations to lag behind the fertilizing and seeding operations more than 24 hours. If rain is forecast, make every effort to mulch areas the same day they are seeded.

A sufficient length of mulching material is needed for the mulch to interlap and bind together. Short stemmed mulching material is more vulnerable to wind action. When the mulching is applied with a straw blower, if required, remove the cutting knives to prevent cutting the mulch too short.

After an area is fertilized and seeded, uniformly spread the mulch over the area. Apply the mulch at the rates shown in the Contract Documents. The rates shown in the Contract Documents are a guide. The Engineer will determine if the applied mulch is sufficient to protect the seeded area.

After the mulch is applied to an area, punch the mulching material (except wood chips) approximately 2 inches into the ground. Perform the punching operation longitudinally, using a mulch puncher. When needed, use weights on the mulch puncher to punch the mulching material into the soil.

When the slope is too steep to use a mulch puncher, "pat" the mulch with forks as it is placed on the slope.

On lawns and small areas in urban areas, apply the mulch material using hand methods, unless otherwise approved by the Engineer. As the mulch is placed, "pat" the mulch with a fork.

Mulching tacking slurry shall be applied to reduce wind loss unless directed by the Engineer

b. Mulching Tacking Slurry. Place and punch the mulch immediately after the fertilizing and seeding operations according to **subsection 905.3a**.

Immediately after the designated areas are mulched and punched, use hydraulic slurry equipment to apply the mulching tacking slurry. Unless shown otherwise in the Contract Documents, apply the mulching tacking slurry at the rate of 900 pounds per acre. Distribute the mulching tacking slurry uniformly over the mulch, leaving no bare spots. Arrange work so the mulching tacking slurry can be placed within 24 hours after each area has been mulched.

c. Hydraulic Erosion Control Product (HECP). Apply the HECP over the specified areas by means of a standard hydraulic slurry seeding machine. Demonstrate, to the Engineer's satisfaction, that the equipment and

methods will result in a uniform application of the HECP. Mix the dry HECP with water and agitate according to the recommendations of the product manufacturer.

Apply the HECP immediately after the seeding and cultipacking to maximize adhesion and minimize slumping. Obtain complete coverage from a consistent angle of approach while applying HECP. Achieve no more than 65% coverage from the primary angle of application, and at least 35% coverage from the secondary angle of coverage. Maintain secondary angles of coverage of between 175° and 185° from the primary angle.

The typical application rates in **TABLE 905-1** may be adjusted based on the manufacturer's recommendations with the approval of the Engineer.

TABLE 905-1: HECP Typical Applications		
Type	Application Rate (lbs/acre)	Maximum Slope
A	1800	4:1
B	2500	3:1
C	3500	2:1

905.4 MEASUREMENT AND PAYMENT

a. Measured Quantities. All area measurements in this section will be based upon slope measurements.

The Engineer will measure the mulching by the ton.

The Engineer will measure mulching tacking slurry by the pound. Payment will be made based on the dry package weight of the recycled paper fibers and tacking agent. Water will not be measured separately, but is subsidiary to the mulching tacking slurry.

The Engineer will measure HECP by the pound. Payment will be made based on the dry package weight of the HECP. Water will not be measured separately, but is subsidiary to the HECP.

b. Payment. Payment for "Mulching Tacking Slurry", "HECP (Type *)" and "Mulching" at the contract unit prices is full compensation for the specified work.

When the quantity of "Mulching Tacking Slurry," "HECP (Type *)" and "Mulching" overruns or underruns the contract quantity by any amount, the contract unit price shall govern.