

SEEDING AND MULCHING:

(2-19-08)

(East)

S-1

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

All Roadway Areas

March 1 - August 31

50#	Tall Fescue
10#	Centipede
25#	Bermudagrass (hulled)
500#	Fertilizer
4000#	Limestone

September 1 - February 28

50#	Tall Fescue
10#	Centipede
35#	Bermudagrass (unhulled)
500#	Fertilizer
4000#	Limestone

Waste and Borrow Locations

March 1 - August 31

75#	Tall Fescue
25#	Bermudagrass (hulled)
500#	Fertilizer
4000#	Limestone

September 1 - February 28

75#	Tall Fescue
35#	Bermudagrass (unhulled)
500#	Fertilizer
4000#	Limestone

Note: 50# of Bahiagrass may be substituted for either Centipede or Bermudagrass only upon Engineer's request.

Approved Tall Fescue Cultivars

2 nd Millennium	Duster	Magellan	Rendition
Avenger	Endeavor	Masterpiece	Scorpion
Barlexas	Escalade	Matador	Shelby
Barlexas II	Falcon II, III, IV & V	Matador GT	Signia
Barrera	Fidelity	Millennium	Silverstar
Barrington	Finesse II	Montauk	Southern Choice II
Biltmore	Firebird	Mustang 3	Stetson
Bingo	Focus	Olympic Gold	Tarheel
Bravo	Grande II	Padre	Titan Ltd
Cayenne	Greenkeeper	Paraiso	Titanium
Chapel Hill	Greystone	Picasso	Tomahawk
Chesapeake	Inferno	Piedmont	Tacer
Constitution	Justice	Pure Gold	Trooper
Chipper	Jaguar 3	Prospect	Turbo
Coronado	Kalahari	Quest	Ultimate
Coyote	Kentucky 31	Rebel Exeda	Watchdog
Davinci	Kitty Hawk	Rebel Sentry	Wolfpack
Dynasty	Kitty Hawk 2000	Regiment II	
Dominion	Lexington	Rembrandt	

On cut and fill slopes 2:1 or steeper Centipede shall be applied at the rate of 5 pounds per acre and add 20# of Sericea Lespedeza from January 1 - December 31.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

HYDRAULIC SEEDING:

Description

Hydraulic seeding shall be an allowable alternative to standard seeding and mulching along shoulders throughout project limits. This work consists of applying seed, fertilizer, and hydraulic mulch over disturbed shoulders within 10 feet of the edge of pavement throughout project limits or as directed.

Materials

Seed and fertilizer shall meet the standard mix and rate as outlined in the Special Provision *Seeding and Mulching*. Hydraulic mulch shall consist of wood or paper fibers manufactured from wood chips or recycled paper products. The fibers shall be processed in such a manner as to contain no growth or germination inhibiting factors. The packaging for the hydraulic mulch shall contain current labels, the manufacturers name, the net weight and the specifications listed below.

Specifications:

Moisture Content	10 % Max.
Ash Content	1.6 % Max.
pH	4.0 - 8.0
Organic Matter	98.4 % Min.

Construction Methods

All areas along shoulder within 10 feet of the edge of pavement shall be brought to final grade prior to Hydraulic Seeding. The area shall be smooth, firm, stable and free of rocks and other debris. Seed and fertilizer mixing in Hydraulic seeder shall be no longer than 30 minutes prior to application. Limestone is not required along shoulder areas where hydraulic seeding will be performed. Hydraulic mulch shall be required at a rate of 2000 lbs/Acre with the application of the standard seed and fertilizer rates. No additional applications of grain straw and emulsified tackifier will be required when Hydraulic Seeding is performed unless otherwise directed.

Measurement and Payment

Hydraulic Seeding shall be measured and paid for as the actual number of acres measured along the surface of the ground where *Hydraulic Seeding* has been applied and accepted. Such payment shall be full compensation for furnishing and applying seed, fertilizer, hydraulic mulch, and water. The contractor shall be responsible for obtaining water from an appropriate water source that is free of contaminants.

Payment will be made under:

Pay Item	Pay Unit
Hydraulic Seeding	Acre