

**SEEDING AND MULCHING:**

**(East)**

9-18-07

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
- 10# Millet

**September 1 - February 28**

- 50# Tall Fescue
- 10# Centipede
- 35# Bermudagrass (unhulled)
- 500# Fertilizer
- 4000# Limestone
- 25# **Choose ONE of the following:  
Rye Grain,  
Wheat FFR 555, or  
Roane Wheat**

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

- |              |              |                 |                    |
|--------------|--------------|-----------------|--------------------|
| Adventure    | Bonanza      | Guardian        | Rebel Jr           |
| Adventure II | Bonanza II   | Houndog         | Rebel II           |
| Airlie       | Bulldog 51   | Inferno         | Red Coat           |
| Amigo        | Chapel Hill  | Jaguar          | Rendition          |
| Anthem       | Chesapeake   | Jaguar III      | Renegade           |
| Anthem II    | Chieftain    | Kentucky 31     | Safari             |
| Apache       | Coronado     | Kitty Hawk      | Shelby             |
| Apache II    | Covenant     | Kitty Hawk 2000 | Shenandoah         |
| Arid         | Crossfire II | Monarch         | Southern Choice II |
| Arid II      | Debutante    | Montauk         | South Paw          |
| Arid III     | Duster       | Mustang         | Tempo              |
| Aztec II     | Escalade     | Mustang III     | Titan              |
| Barlexas     | Falcon       | Olympic         | Titan Ltd.         |

Barlexas II	Falcon III	Pacer	Tomahawk
Barrera	Finelawn	Paraiso	Tacer
Barrington	Finelawn I	Pixie	Trailblazer
Bingo	Finelawn Petite	Pyramid	Tribute
Bravo	Genesis	Quest	Trooper
Brookstone	Grande	Rebel	Wolfpack
			Wrangler

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. Upon written approval of the Engineer, 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.

All areas seeded and mulched shall be tacked with asphalt. Crimping of straw in lieu of asphalt tack shall not be allowed on this project.

**CRIMPING STRAW MULCH:**

Crimping shall be required on this project adjacent to any section of roadway where traffic is to be maintained or allowed during construction. In areas within six feet of the edge of pavement, straw is to be applied and then crimped. After the crimping operation is complete, an additional application of straw shall be applied and immediately tacked with a sufficient amount of undiluted emulsified asphalt.

Straw mulch shall be of sufficient length and quality to withstand the crimping operation.

Crimping equipment including power source shall be subject to the approval of the Engineer providing that maximum spacing of crimper blades shall not exceed 8".

**TEMPORARY SEEDING:**

Fertilizer shall be the same analysis as specified for *Seeding and Mulching* and applied at the rate of 400 pounds and seeded at the rate of 50 pounds per acre. Sweet Sudan Grass, German Millet or Browntop Millet shall be used in summer months and Rye Grain during the remainder of the year. The Engineer will determine the exact dates for using each kind of seed.

**FERTILIZER TOPDRESSING:**

Fertilizer used for topdressing on all roadway areas except slopes 2:1 and steeper shall be 10-20-20 grade and shall be applied at the rate of 500 pounds per acre. 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 10-20-20 analysis and as directed.

Fertilizer used for topdressing on slopes 2:1 and steeper and waste and borrow areas shall be 16-8-8 grade and shall be applied at the rate of 500 pounds per acre. A different analysis of fertilizer may be used provided the 2-1-1 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as 16-8-8 analysis and as directed.

**SUPPLEMENTAL SEEDING:**

The kinds of seed and proportions shall be the same as specified for *Seeding and Mulching*, with the exception that no centipede seed will be used in the seed mix for supplemental seeding. The rate of application for supplemental seeding may vary from 25# to 75# per acre. The actual rate per acre will be determined prior to the time of topdressing and the Contractor will be notified in writing of the rate per acre, total quantity needed, and areas on which to apply the supplemental seed. Minimum tillage equipment, consisting of a sod seeder shall be used for incorporating seed into the soil as to prevent disturbance of existing vegetation. A clodbuster (ball and chain) may be used where degree of slope prevents the use of a sod seeder.