

## **SECTION 02920 - GRASSING AND LANDSCAPING**

### **PART 1 - GENERAL**

- 1.1 **Includes:** Preparing the ground surface; furnishing and applying lime; applying fertilizer and seed; and mulching to establish a stand of mowable grass in all unpaved areas that have been disturbed; and replacement of all disturbed shrubs, trees, and miscellaneous plants that are to remain.
- 1.2 **Reference Standards:** "Standard Specifications for Construction of Transportation Systems, 2001 Edition," Georgia Department of Transportation, referred to herein as the "DOT Specifications."
- 1.3 **Quality Assurance:**
  - A. Provide an approved written guarantee from nursery for replacement of failed plants within one year after final acceptance.
  - B. Guarantee grassing for one year and provide for mulching, fertilizing and watering of replaced plants and grassing. Extend the guarantee for one year from date of replacement.
- 1.4 **Submittals:** Submit list of grasses, seeding rates, and seeding dates for City Engineer's review and approval prior to seeding.

### **PART 2 - PRODUCTS**

- 2.1 **Fertilizer:** Standard commercial grade, 6-12-12 (N-P-K).
- 2.2 **Lime:** Agricultural grade, ground or pulverized limestone.
- 2.3 **Grass Seed and Sod:** Select grasses or sod appropriate to the season and site conditions from the Seeding Table in Section 700 of DOT Specifications. Seed and sod shall conform to Section 890. Grass seed to be used in previously grassed areas shall be equal type and grade to the previously existing grass. Include a mixture of temporary grasses when applying permanent grass.
- 2.4 **Mulch:** As specified in Sections 893.2.02 and 718.2 of DOT Specifications.
- 2.5 **Erosion Control Mats:** As specified in Section 716 of DOT Specifications.
- 2.6 **Trees, Shrubbery, and Miscellaneous Plants:** To be as specified in Standard Specification Section 893.2.03. All trees, shrubbery, and plants damaged by the Work shall be replaced with identical plants of the same general size and quality as previously existed.

### **PART 3 - EXECUTION**

- 3.1 **Areas to be Grassed:** All areas which are disturbed by construction activities, including trenches and ungraded cleared areas, except areas to be paved, shall be provided with a full stand of permanent grass. Seed with temporary grass and mulch cover for any disturbed areas that for any reason cannot be permanently grassed within 14 days after disturbing.
- 3.2 **Preparation:**

- A. Remove all rocks and debris of any kind from the area to be grassed and rake surface smooth to conform to adjacent ground. Loosen surface by discing, raking, or harrowing to result in a smooth surface, free of rocks over 2" in size and mowable by agricultural-type mower.
  - B. Apply lime at the rate of 2 tons/acre. (92 lbs. per 1000 sq. ft.)
  - C. Apply fertilizer at the rate of 1,500 lbs. per acre. (34 lbs. per 1000 sq. ft.) (Fertilizer may be applied by hydroseeding.)
  - D. Prepare seed bed by thoroughly mixing lime with soil into the top 4 inches of the surface by discing or tilling prior to seeding. Roll to provide a firm, smooth seed bed.
- 3.3 Seeding: Apply seed evenly on freshly prepared and rolled seed bed. (May be applied by hydro-seeder). Include both temporary and permanent grasses in all seeding of permanent grass. Include wood fiber mulch used as a metering agent applied at a rate of approximately 500 lbs./acre with the seed and fertilizer in the form of a slurry.
- 3.4 Rolling: Roll all seeded areas before applying mulch.
- 3.5 Mulching: Mulch the entire seeded area as specified in Section 700.3.05 of the DOT Specifications. Apply straw or hay mulch to evenly cover the ground to a depth of at least three quarters of an inch (3/4"). Apply mulch within 24 hours after seeding. Anchor mulch in place using a disk harrow, a commercial tackifier, or 1 inch mesh netting.
- 3.6 Watering: Provide watering as required to establish and maintain a full stand of healthy grass and landscaping.
- 3.7 Re-seeding: Re-seed as required to establish and maintain permanent vegetative cover to prevent sheet and rill erosion. Repair erosion damage as required and re-seed as necessary to obtain a full stand of healthy grass.
- 3.8 Planting of Shrubbery, Trees, and Misc. Plants: Plant shrubbery in accordance with written recommendations of nursery supplying the plants, including mulching, fertilizing, and watering instructions.
- 3.9 Maintenance: Establish a full stand of permanent grass and healthy shrubs, trees, and plants before final acceptance of the Work by the Owner. Control erosion at all times. Where damage occurs, repair landscaping work as quickly as practical after a problem is identified. Eradicate weeds appearing in grassed areas. After grass has been established, mow as often as needed to maintain height between 1-1/2 and 3 inches until final acceptance.

END OF SECTION