

## SECTION 02485 - GRADING AND SEEDING

### 1. GENERAL

#### 1.1 DESCRIPTION

- A. Work included but not limited to:
  - Topsoil placement
  - Soil Conditioning
  - Fine Grading
  - Seeding
  - Maintenance
- B. Related Work
  - Select tree removal
  - Excavation
  - Trench Excavation

#### 1.2 QUALITY ASSURANCE

- A. Standards
  - Maryland Department of Transportation
  - State Highway Administration
  - Standard Specifications for Construction Materials
  - 2001 or latest Edition & Addendums

#### 1.3 SUBMITTALS

- A. Submit compliance statements from material suppliers attesting that products supplied meet the specification requirements.

#### 1.4 PRODUCT HANDLING

- A. Provide seed mixture in sealed containers showing percentage of seed mix, production year, net weight and date and location of packaging.
- B. Provide fertilizer in waterproof bags showing manufacturer's name, weight and chemical analysis.

### 2. PRODUCTS

#### 2.1 TOPSOIL

- A. Topsoil shall have a pH between 6.0 and 7.0.
- B. Free of grass, roots, clods, pests, pest larvae and toxic materials.

#### 2.2 FERTILIZER

- A. Basic dry formulation fertilizer:
  - Analysis 0-20-20
  - Maryland Department of Transportation
  - State Highway Administration
  - Standard Specifications for Construction Materials
  - 2001 or latest Edition & Addendums

- B. Starter fertilizer:

Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums

2.3 LIME

- A. Raw ground limestone conforming to:  
Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums

2.4 SEED

Seed shall be fresh, clean, dated from last available crop. Percentage of pure seed present shall be exclusive of inert matter and other seeds.

Seeding Formula

See Section 705 of:

Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums

2.5 SEEDING RATE

See Section 705 of:

Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums

2.6 INOCULANT

- A. Inoculate leguminous seed before seeding with nitrogen fixing bacteria culture prepared for the species. Do not use inoculant after the expiration date on the container.

2.7 MULCH

Mulch for seeded areas shall be one, or a combination of, the following:

Timothy hay, mixed clover and Timothy hay wheat or oat straw

Wood Fiber:

Manufactured from wood chips, air dried

Moisture content 15% maximum

Organic matter (over dry basis) 95% minimum

Water holding capacity 1000%

3. EXECUTION

3.1 SEEDING

- A. Seeding shall occur during times specified in Section 705 of:

Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums

3.2 SUBGRADE PREPARATION

Loosen and grade by harrowing, discing, or dragging. Remove rocks over 2" in diameter and other debris.

3.3 TOPSOIL

- A. Replace topsoil and spread over prepared subgrade to a minimum final depth of 4 inches and to grade elevation.
- B. Rake and remove unsuitable materials.
- C. Apply Limestone uniformly at a rate of 100 pounds per 1,000 square feet, unless soil tests indicate a lesser rate.
- D. Apply fertilizer uniformly at a rate of 50 pounds per 1,000 square feet, unless soil test indicate a lesser rate.
- E. Remove unsuitable material larger than 2" in any dimension.
- F. Grade surface to the required contours.

3.4 SEEDING

- A. Uniformly sow seed.
- B. Cover seed to an average depth of /4'.

3.5 MULCH

- A. Mulch within 48 hours of seeding.
- B. Place hay or straw mulch uniformly at a minimum rate of 1,200 pounds per 1,000 square yards.
- C. Apply wood fibers at a rate of 320 pounds per 1,000 square yards.

3.6 MAINTENANCE

- A. Maintenance includes watering, weeding, initial mowing, clean up and repair.
- B. Keep seeded areas wet for 10 days.
- C. Reseed and repair areas of no growth, damaged or vandalized.

END OF SECTION 02485