

**SECTION 32 92 00**

**LAWN RESTORATION**

**PART 1: GENERAL**

**1.1 DESCRIPTION**

- A. Restore and replace shrubbery, fencing, or other disturbed surfaces or structures to conditions equal to that before the work began and to the satisfaction of the Engineer.

**PART 2: PRODUCTS**

**2.1 TOPSOIL**

- A. Topsoil shall not contain more than 40 percent clay in that portion passing a No. 10 sieve. Topsoil shall contain between 5 percent and 20 percent organic matter as determined by loss on ignition of samples oven-dried to constant weight at 212 degrees Fahrenheit.

**2.2 FERTILIZER**

- A. Fertilizer shall be lawn or turf grade 12-12-12 or as determined by the Engineer.

**2.3 SEED AND SOD**

A. Lawn Areas

- (1) Seed areas where lawns are or have been regularly maintained, whether residential, commercial or office areas, in accordance to a submittal that matches the existing grass as close as possible or as required by the Soil Conservation District or other governing authority.
- (2) Forty Five days prior to lawn restoration submit a detailed Lawn Restoration Plan that is specific for the time of year, locations, and meets regulatory requirements.
- (3) Where sod is required it shall be green, freshly cut, and of good quality with grass free from all noxious weeds. It shall contain all the dense root system of the grass and shall not be less than 1-1/2 inches thick.

B. All other Areas

- (1) Included a section in the Lawn Restoration Plan subtitled "All Other Areas" and detail a plan for such areas that is specific for the time of year, locations, and meets regulatory requirements.

## 2.4 MULCH

- A. Mulch shall be straw reasonably free of weed seed and foreign materials which may affect plant growth. Other materials may be used if approved by the Engineer.

## 2.5 ASPHALT EMULSION

- A. Emulsion shall be non-toxic to plants and shall conform to AASHTO M140 or AASHTO M208.

## PART 3: EXECUTION

### 3.1 PREPARATION OF SEED BED

#### A. Topsoil Areas

- (1) Removed, store, and use suitable topsoil available from the excavated material to backfill the top 4 inches of the excavation. Remove and dispose of all imported granular fill, grass, weeds, roots, sticks, stones, and other debris 1-inch or greater in diameter. Bring the topsoil to the finished grade by raking.

#### B. Non-Topsoil Areas

- (1) When there is insufficient topsoil available from the site excavated materials, furnish 4 inches of topsoil to be used as a seed bed in lawn areas as described in Part 2.03, Paragraph A of this Specification Section.
- (2) The trench backfill may be used as a seed bed, where approved by the Engineer. After the backfill has been given a reasonable time to settle, grade it off to the finished grade and harrow to a depth of 3 inches. Remove and dispose of all grass, weeds, roots, sticks, stones and other debris 1 inch or greater in diameter. Carefully bring the topsoil to the finished grade by raking.

### 3.2 FERTILIZING

- A. Apply fertilizer uniformly to all areas to be seeded at the rate of 1 pound per 100 square feet in topsoil and 2 pounds per 100 square feet in non-topsoil or according to the manufacture's recommendations which ever is greater. Disk, harrowed, or raked the fertilizer thoroughly into the soil to a depth of not less than 2 inches. Immediately before sowing the seed, rework the surface until it is a fine, pulverized, smooth seed bed varying not more than 1 inch in 10 feet.

### 3.3 SEEDING

- A. Seed immediately after preparation and fertilization of the seed bed. Mix the seed thoroughly and sow it evenly over the prepared areas at the rate of 3 pounds per 1,000 square feet. Sow the seed dry or hydraulically. After sowing, rake or drag the area to cover the seed to a depth of approximately 1/4 inch
- B. Sod all areas with slopes greater than 10% unless otherwise noted on the drawings. The Contractor may submit other methods in the Lawn Restoration Plan that are more economical.

### 3.4 SODDING

- A. Sod all areas as noted in the drawings. As a minimum, sod shall be fibrous, well rooted approved grass type. The grass shall be cut to a height of less than three (3) inches. Edges of sod shall be cleanly cut, either by hand or machine, to a uniform thickness of not less than one and one-half (1-½) inches, to a uniform width of not less than sixteen (16) inches, and in strips of not less than three (3) feet in length. Sod shall be free from all primary noxious weeds as defined by the applicable State Seed Law.
- B. Lay sod with tight staggered joints. On slopes, start placement at the foot of the incline. Use wood pegs driven flush to hold sod in place on slopes 4:1 or greater. Use two wood pegs per strip of sod. Roll the sod lightly after placement. Fill any open joints with topsoil and/or sod.

### 3.5 MULCHING

- A. Place mulching material evenly over all seeded areas within 48 hours of seeding. Place mulch at the rate of approximately 2 tons per acre, when seeding is performed in recognized growing season and at the approximate rate of 3 tons per acre when seeding is performed in a recognized non-growing season if applicable.

### 3.6 EMULSION

- A. Keep mulching materials in place with asphalt emulsion applied at a minimum rate of 60 gallons per ton of mulch or by other methods approved by the Engineer. When mulch is displaced, immediately repair any damage to the topsoil and fertilizer, re-seed, and re-mulch per the requirements of this Specification Section.

### 3.7 MAINTENANCE

- A. Carefully maintain, tend, and water all seeded and sodden areas necessary to secure a good turf. Fill, grade, and reseed or re-sod all areas that have settled. Maintain the condition of the seeded areas in accordance with the requirements of this Specification Section. Maintain the condition of the restored areas of vegetation in accordance with the requirements of this Specification Section for a period of one year from the date of final completion.

-- END OF SECTION 32 92 00--