

# ATTACHMENT 2

## Seeding Specification

1 GENERAL

1.1 WORK INCLUDES

- A. Base Bid:
  - 1. Contractor Provide:
    - a. Preparation of subsoil.
    - b. Placing topsoil.
    - c. Seeding and fertilizing.
    - d. Maintenance

1.2 REFERENCES

- A. Illinois Department of Transportation (IDOT) – Standard Specifications for Road and Bridge Construction, adopted January 1, 2007, including all addenda.

1.3 DELIVERY, STORAGE & HANDLING

- A. Deliver grass seed in original containers showing analysis of seed mixture, percentage of pure seed, year of production, net weight, date of packaging and location of packaging. Damaged packages are not acceptable.
- B. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and manufacturer's name.
- C. Deliver all products in sufficient quantity and time to maintain approved construction schedule, as amended.
- D. Store all products off the ground, in a dry location, out of way of construction operations. Provide protection to prevent damage until installed.
- E. Follow manufacturer's recommendations for handling.

1.4 WARRANTY

- A. Contractor shall provide DNR Regional Engineer with warranty for a period of one year plus one growing season.

## 2. PRODUCTS

### 2.1 GROWING MEDIA

- A. Imported topsoil: Natural, fertile agricultural soil capable of sustaining vigorous plant growth, from well drained site free from flooding, not in frozen or muddy condition, not less than 6% organic matter, and pH value of 5.9 to 7.0. Free from subsoil, slag, clay, stones, lumps, live plants, roots, sticks, crabgrass, cough grass, noxious weeds and foreign matter.
- B. Existing topsoil: Natural, fertile agricultural soil capable of sustaining vigorous plant growth, not in frozen or muddy condition, containing not less than 6% organic matter, and corrected to pH value of 5.9 to 7.0. Free from subsoil, slag, clay, stones, lumps, live plants, roots, sticks, crabgrass, cough grass, noxious weeds and foreign matter.
- C. Fertilizer: Comply with IDOT Specification, Article 1081.08.
  - 1. Percentages of each nutrient by weight shall be 10% nitrogen, 6% of available phosphoric acid and 4% water soluble potash, or any other mixture having an analysis for these nutrients in the ration of 5-3-2.
- D. Agriculture Ground Limestone: Comply with IDOT Specification Article 1081.07.

### 2.2 SEED. Comply with the IDOT Specification, reference Articles

- A. Seeds: 1081.04.
- B. Seeding mixtures: 250.07 Class 1.

### 2.3 ACCESSORIES

- A. Mulching material: Oat or wheat straw, reasonably free from weeds, foreign matter detrimental to plant life, and in dry condition. Hay or chopped cornstalks is not acceptable.

## 3. EXECUTION

### 3.1 Preparation. Comply with IDOT Specifications 250.01 through 250.07.

- A. Examine existing conditions and notify DNR Regional Engineer immediately of all conditions that would impair proper performance of the work. Confirm notification in writing. State of work, or failure to give notifications, constitutes acceptance of existing conditions.
- B. Protect existing underground improvements from damage.
- C. Remove all foreign materials, plants, roots, stones, sticks, and debris from site. Do not bury foreign material.

- D. Remove contaminated subsoil.
- E. Cultivate areas to receive topsoil to depth of 3 inches. Repeat cultivation in areas where equipment has compacted subgrade.

### 3.2 FERTILIZING.

- A. Apply fertilizer at a bulk rate of 10 lbs. Per 1,000 sq. ft. Apply agricultural ground limestone at a rate of 2 tons per acre.
- B. Do not apply grass seed and fertilizer at same time, in same machine.
- C. Lightly water to aid breakdown of fertilizer and to provide moist soil for seed.

### 3.3 SEEDING

- A. Seed all areas disturbed by construction.
- B. Apply seed at a rate of 150 lbs per acre evenly in two perpendicular intersecting directions. Rake in lightly.
- C. Do not sow immediately following rain, when ground is too dry or during windy periods.
- D. Roll seeded areas with roller not exceeding 112 lbs.
- E. Apply water with fine spray immediately after each area has been sown.

### 3.4 MULCHING

- A. Apply mulch (Method 2) at a rate of 2 tons per acre.

### 3.5 MAINTENANCE PERIOD

- A. Maintenance period: Until final acceptance.

### 3.6 MAINTENANCE

- A. Maintain surfaces; supply additional topsoil in low areas, including areas affected by erosion.
- B. Water to ensure uniform seed germination and to keep surface of soil damp.
- C. Apply water slowly so that surface of soil will not puddle and crust.
- D. Replant damaged areas showing root growth failure, deterioration, bare or thin spots, and eroded areas.

### 3.7 RESTORATION: Restore grassed areas damaged during execution of work.

### 3.8 ACCEPTANCE: Seeded areas will be accepted at end of maintenance period when seeded areas are properly established and otherwise acceptable.

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