

**SECTION 02930**  
**PERENNIAL RYE SEEDING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

A. Provide seeded lawns as shown and specified. Renovated lawn area refer to existing lawn areas disturbed by construction.

1. Soil Preparation
2. Seeding lawns, athletic fields, and other indicated areas
3. Maintenance

B. Related Sections:

1. SECTION 02815 - Irrigation System
2. SECTION 02920 - Soil Preparation

**1.2 QUALITY ASSURANCE**

A. Comply with Section 02920 requirements.

**1.3 SUBMITTAL**

A. Submit seed vendor's certification for required grass seed mixture, indicating percentage by weight, and percentages of purity, germination, and weed seed for each grass species.

1. Specified Bluegrass/Ryegrass seed mix 10% Bluegrass, 90% Perennial Ryegrass for indicated areas

B. Submit the following material samples:

1. Kentucky Bluegrass Seed (100%)
  - a. three (3) improved varieties - 1/2 lb.
2. Perennial Ryegrass Seed

C. Warranty for Bluegrass/Ryegrass Seed Areas: At completion of work, furnish written warranty to Owner based upon requirements as specified.

**1.4 DELIVERY, STORAGE, AND HANDLING**

A. Deliver seed and fertilizer materials in original unopened containers, showing weight, analysis, and name of manufacturer. Store in a manner to prevent wetting and

deterioration.

## 1.5 PROJECT CONDITIONS

- A. Work notification: Notify owner's authorized representative at least seven (7) working days prior to start of seeding operations.
- B. Protect existing utilities, paving, and other facilities from damage caused by seeding operations.
- C. Perform seeding work only after planting and other work affecting ground surface has been completed.
- D. Restrict traffic from lawn areas until grass is established. Erect signs and barriers as required.
- E. Provide hose and lawn watering equipment as required.
- F. The irrigation system will be installed prior to seeding. Locate, protect, and maintain the irrigation system during seeding operations. Repair irrigation system components during seeding operations at Contractor's expense.

## 1.6 WARRANTY

- A. Provide a uniform stand of grass by watering, mowing, and maintaining seeded areas until final acceptance. Reseed areas, with specified materials, which fail to provide a uniform stand of grass until all affected areas are accepted by the Consultant and the Owner.

## PART 2 - PRODUCTS

### 2.1 PRODUCTS

### 2.2 MATERIALS

#### A. Lawn seed:

- 1. Fresh, clean, and new crop mixture mixed by an approved method.
- 2. Blend: Kentucky bluegrass (10%)/Ryegrass (90%) mix.
  - a. Included at least three (3) varieties of improved Kentucky bluegrass. Submit list of proposed varieties a minimum of ten (10) days prior to seeding for approval by the Project Manager.
  - b. Application rate: four (4) lbs. pure live seed (P.L.S.) per 1000 SF.

- B. Water: Free of substance harmful to seed growth. Hoses or other methods of

transportation furnished by Contractor.

## PART 3 - EXECUTION

### 3.1 INSPECTION

- A. Examine finish surfaces, grades and depth. Do not start seeding work until unsatisfactory conditions are corrected.

### 3.2 PREPARATION

- A. Limit preparation to areas which are ready to be seeded immediately.
- B. The contractor shall prepare the subgrade to all areas to be seeded by discing or rototilling the soil to a depth of six (6) inches. No organic amendments will be applied to dryland seed grass area.
- C. Prior to the second tilage, the fertilizer shall be applied to the surface of the rough subgrade of the areas to be seeded and tilled during the second operation. When completed, the soil shall be firmed by rolling and float drag, followed by steel raking, to provide for the proper seeded surface. The seed bed shall be totally free from rock or clay clods over one (1) inch in diameter.

### 3.3 INSTALLATION

#### A. Seeding:

1. Seed immediately after preparation of bed. Seed irrigated seed areas between April 1 - August 15 and dryland areas between October 1 - April 15 or at such other times acceptable to the **Landscape Architect**.
2. Seed indicated areas within contract limits and areas adjoining contract limits disturbed as a result of construction operations.
  3. Bluegrass/**Ryegrass** Seed:
    - a. Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage. Deliver seed to the job site in the original unopened containers and present certified labels to the Consultant prior to opening containers.
    - b. Seeding shall be done by means of broadcast seeding. Seeds shall be uniformly sown and raked to a depth of approximately 1/4".

### 3.4 LAWN RENOVATION

- A. Renovate existing lawn.
- B. Renovate existing lawn damaged by Contractor's operations, such as storage or materials or equipment and movement of vehicles.

1. Reestablish lawn where settlement or washouts occur or where minor regarding is required.
- C. Remove sod and vegetation from diseased or unsatisfactory lawn areas; do not bury in soil.
- D. Remove topsoil containing foreign materials resulting from Contractor's operations, including oil drippings, fuel spills, stone, gravel, and other construction materials, and replace with new topsoil.
- E. Mow, de-thatch, core aerate, and rake existing lawn.
- F. Remove weeds before seeding. Where weeds are extensive, apply selective herbicide as required. Do not use pre-emerging herbicides.
- G. Remove waste and foreign materials, including weeds, soil cores, grass, vegetation, and turf, and legally dispose of them off Owner's property.
- H. Till stripped, bare, and compacted areas thoroughly to soil depth of six (6) inches.
- I. Apply soil amendments and initial fertilizers required for establishing new lawns and mix thoroughly into top four (4) inches of existing soil. Provide new planting soil to fill low spots and meet finish grades.
- J. Water newly planted areas and keep moist until new lawn is established.

### 3.5 MAINTENANCE, GUARANTEE, AND ACCEPTANCE

#### A. Maintenance Period and Guarantee:

1. The maintenance and warranty period shall begin immediately after each area is seeded until final acceptance of the project. During this time, the contractor shall be responsible for watering, if needed, mowing, spraying, weeding, and all related work and costs as necessary to insure that seeded areas are in a vigorous growing condition until final acceptance. The Landscape Architect will direct the contractor on what seeded areas need to be replaced at the final walk-through.
2. The contractor shall, for a period of one (1) year, monitor his work once every two months to verify that major settlement has not taken place and that no seeded area has become waterlogged in settled swales or other areas. Should settlement occur, the contractor shall repair damage according to these specifications.
3. The contractor shall maintain the seeded areas until all work on the contract has been completed and accepted. Maintenance shall consist of, in addition to watering, mowing, weed control, and protection from vandalism, the repair of areas damaged by erosion protection from vandalism, the repair of areas damaged by erosion or wind.  
Such areas shall be repaired during the maintenance period at no expense to the Owner to re-establish the condition and grade of the soil prior to application of the mulch and shall be refertilized, reseeded, and remulched as directed. Major repair

of areas due to the work or failure of other contractor's systems or work shall be by that contractor who damaged the work, provided that during this maintenance period the lawn contractor notifies the Owner's authorized representative in writing of such damage within ten (10) days of the occurrence. Major damage due to vandalism (major damage is defined as damaged costing over \$5,000.00 in time and materials) in any one incident shall be borne by the Owner, again provided that notification was made within ten (10) days as specified herein. After receiving final acceptance, maintenance shall become the responsibility of the Owner.

4. The seeded areas shall be accepted on the basis of having a uniform plant growth over the entire seeded area. Two (2) months after seeding, the areas seeded shall be reviewed by the Landscape Architect and the Contractor. Any areas (as determined by the Landscape Architect) where the seed has failed to germinate shall be reseeded and raked to cover the seed. Any area where the seed has failed to grow, reseeding shall be at the Contractor's expense until grass is established and accepted. Acceptable uniform plant growth shall be defined as when the scattered bare spots, not greater than 4 square inches, do not exceed 5% of the seeded area.

### 3.6 CLEANING

- A. Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from seeding operations.

**END OF SECTION 02930**