

SECTION 02830 SODDING

1.0 GENERAL

A. Description

Sodding shall include, but not necessarily be limited to, furnishing, hauling, and placing grass sod on prepared areas in accordance with the Contract Documents.

B. Related Work Included Elsewhere

1. Clearing and Grubbing: Section 02110
2. Turf Establishment: Section 02820
3. Soil Stabilization Matting: Section 02850

C. Quality Assurance

The Commission will inspect all materials before, during, and after installation to ensure compliance with the Contract Documents.

2.0 MATERIALS

A. Materials Furnished by the Commission

1. The Commission will not furnish any materials for sodding.
2. The Contractor may purchase water from the Commission's potable water system. The Contractor shall contact the Commission to coordinate its use.

B. Contractor's Options

Fertilizer may be furnished in either dry or liquid form unless otherwise noted.

C. Detailed Material Requirement

1. Grass Sod

Grass sod shall be well rooted and shall be a high percentage of Kentucky 31 Tall Fescue. It shall, when placed, have been cut and rolled (stored) not longer than 48 hours. It shall be cut in strips not less than 12-inches nor more than 18-inches wide and have 3/4 inches of soil firmly attached to the roots. The sod thickness shall not be deficient more than 1/4-inch from the required thickness at or just before placement. This 1/4-inch tolerance does not relieve the Contractor of the responsibility of cutting the sod a full 3/4-inches thick. The thickness of sod is measured by the thickness of soil firmly attached to the root system. The height of grass or thickness of thatch has no bearing on the determination of sod thickness. The sod and attached soil shall be free from noxious weeds: Common Bermuda grass, Nutsedge, Quack grass, Garlic, Johnsongrass, Poison Ivy or Poison Oak, and Canada Thistle. Any lot of sod containing the following weeds either individually or collectively exceeding one percent of the total plant population by plant count or surface area covered shall be rejected as follows: Orchard-grass, Nimblewill, Annual Bluegrass, Crabgrass, Goosegrass and

- Foxtail. It shall not contain substances deleterious to growth or which might affect the survival or hardiness of the sod when transplanted.
2. Fertilizer shall be as specified in Section 02820.
 3. Ground limestone shall be as specified in Section 02820.
 4. Water shall be as specified in Section 02820.
 5. Pegs shall be wooden wedges ½-inch x 1-inch x 6-inch to ½-inch x 1-inch x 12-inch.
 6. Staples shall be made from No.11 or heavier steel wire bent to form a U. The staples shall average 1 to 1-1/2-inches wide. The staple shall be at least 6 inches long from top to bottom after bending.
- D. Material Storage Note: Materials shall be stored in order to insure the preservation of their quantity, quality and fitness for Work. The Contractor shall place materials on wooden platforms, or other hard, clean surfaces, not on the ground, and the materials shall be placed under cover when directed by the Owner. Stored materials shall be located in order to facilitate prompt inspection by the Owner. Lawns, grass plots, or other private or public property shall not be used for storage purposes without written permission of the owner or lessee. Unless directed or noted otherwise in the Contract documents, there will be no payment for stored materials.

3.0 EXECUTION

A. General

Sod sections or strips shall be of a length as may be readily lifted without breaking, tearing or loss of soil. Sections or strips shall be cut by approved sod cutters, hauled or carried to storage piles or the point of installation without breaking, and set in final place as indicated on the Contract Documents and as directed by the Commission. All sod in stacks shall be kept moist and protected from exposure to the air, sun and freezing. Any sod permitted by the Contractor to dry out may be rejected whenever, in the judgment of the Commission, its survival after placing is rendered doubtful. No payment will be made for rejected sod.

In no event shall more than 48 hours elapse between the cutting and placement of sod.

During wet weather, sod shall be allowed to dry sufficiently to prevent tearing as a result of handling and placing. During dry weather it shall be watered before cutting and lifting to ensure its vitality and prevent the dropping off of soil in handling.

B. Ground Preparation

Before placing sod upon any topsoiled surfaces, all shaping and dressing of such surfaces shall be completed. The completed areas to be sodded shall present a smooth, uniform, well tilled surface true to line and cross-section. Any raking required to accomplish this shall be done immediately before placing the sod.

All areas to be sodded shall be fertilized and limed in accordance with Section 02820. The lime and fertilizer shall be worked into the top 2 inches of soil before placing sod.

C. Sod Placement

No sod shall be placed between the dates of June 1st and August 15th inclusive unless adequate irrigation is available to establish the sod, nor any time when the temperature is below 32°F. No frozen sod shall be used. No sod shall be placed upon frozen soil. Sod shall be lifted from trucks or storage piles and placed by approved methods with close joints and no overlapping. All cracks between blocks of sod shall be closed with small pieces of sod. All sod shall be tamped or rolled after laying to close the seams between the pieces and press the sod tight against the ground. A hand tamper shall weigh approximately 15 pounds and have a flat surface of approximately 100 square inches. A roller shall weigh 40 pounds per foot of width. Any slipping of sod is to be corrected by the Contractor without additional compensation.

D. Watering

The sod shall be watered a minimum of 3 times after placement. The sod and soil directly beneath the sod shall be kept moist, by additional waterings if necessary, until acceptance or it has become established. The first watering shall be immediately after laying the sod. The second and third waterings shall be as necessary within 2 weeks of the first watering. No sod will be accepted until the water requirements have been satisfied, and the sod appears in good health.

E. Sodded Slopes and Drainage Ditches

On slopes 2:1 and steeper, sod shall be laid with the long edges parallel to the contour starting at the bottom of the slope. Successive strips shall be neatly matched and all joints staggered or broken. When placing sod in drainage ditches, the length of the strip shall be laid perpendicular to the direction of the flow of the water. Where the sod may be displaced during sodding operations, the workmen, when replacing it, shall work from ladders or treaded planks to prevent further displacement.

Each strip or section of sod placed on slopes 2:1 and steeper and surface drainage V-shaped or flat bottom ditches or gutters shall be staked securely with at least 2 wooden pegs spaced not more than 2-feet apart with the flat side against the slope and driven flush with the top of sod.

F. Repair of Defective Areas

Until the project is conditionally accepted, the Contractor will be required to repair or replace any sod that is defective or damaged.

G. Contractor's Responsibility

Before final acceptance of the Project, it shall be the responsibility of the Contractor to remove all heaved staples, which have been in place a minimum of six months, from areas to be mowed, or as directed by the Commission.

4.0 METHOD OF MEASUREMENT

- A. Except when used as a contingent item or noted otherwise, measurement for sodding will not be made, as it shall be included in the unit quantity item for utility installation.
- B. When used as a contingent item or noted otherwise, measurement for furnishing and installing sodding will be made on the surface area, measured in place, acceptably installed.

5.0 BASIS OF PAYMENT

SODDING**02830-4****A. General**

1. Except when used as a contingent item or noted otherwise, payment for sodding will not be made, as it shall be included in the unit quantity item for utility work.
2. When used as a contingent item or noted otherwise, payment will be made at the unit price bid. The price bid shall include furnishing all labor, tools, equipment, and materials necessary to complete the work as shown and specified in strict accordance with the Contract Documents.
3. Payment will be made for contingent items when approved by the Commission.

B. Sodding

Payment for furnishing and installing sodding complete and in place will be made per square yard at the contingent prices established in the bid form. The price shall include all pegging, irrigation, traffic control, and incidental items to complete the sodding.

****END OF SECTION 02830****