

Section 02922**SODDING****1.0 GENERAL****1.01 SECTION INCLUDES**

- A Sodding areas of residential lawns disturbed during construction and not paved or designated to be paved, or as indicated on Plans.
- B References to Technical Specifications:
 - 1. Section 01200 – Measurement and Payment Procedures
 - 2. Section 01350 – Submittals
 - 3. Section 01500 – Temporary Facilities and Controls
 - 4. Section 02910 – Topsoil
 - 5. Section 02255 – Bedding, Backfill, and Embankment Materials
 - 6. Section 01140 – Contractor’s Use of Premises
- C Definitions:
 - 1. Lawn - ground covered with fine textured grass kept neatly mowed.
 - 2. Sod - blocks, squares, strips of turf grass, and adhering soil used for vegetative planting.

1.02 MEASUREMENT AND PAYMENT

- A Unless indicated as a Bid Item, no separate payment will be made for Work performed under this Section. Include cost in Bid Items for utility or paving.
- B If sodding is included as a Bid Item, measurement will be based on the units shown in Section 00300 – Bid Proposal and in accordance with Section 01200 – Measurement and Payment Procedures.
- C No payment shall be made for sodding of restoration areas disturbed by Contractor outside the limits of construction.

1.03 SUBMITTALS

- A Make Submittals required by this Section under the provisions of Section 01350 – Submittals.
- B Submit material sources and product quality information in accordance with this Section.
- C Submit a certificate stating that fertilizer complies with these specification requirements and the requirements of the Texas Fertilizer Law.

1.04 PROTECTION OF PEOPLE AND PROPERTY

- A Contractor shall conduct all construction operations under this Contract in conformance with the practices described in Section 01500 – Temporary Facilities and Controls.

2.0 PRODUCTS**2.01 MATERIALS**

- A Topsoil: Conform to material requirements of Section 02910 – Topsoil.
- B Bank Sand: Conform to material requirements of Section 02255 – Bedding, Backfill, and Embankment Materials.
- C Fertilizer: Available nutrient percentage by weight: 12 percent nitrogen, 4 percent phosphoric acid, and 8 percent potash; or 15 percent nitrogen, 5 percent phosphoric acid, and 10 percent potash.
- D Weed and Insect Treatment: Provide acceptable treatment to protect sod from weed and insect infestation. Submit treatment method to the Engineer for approval. All insect and disease control shall be installed within guidelines set forth by the Structural Pest Control Board of the State of Texas
- E Water: Potable, available on-site through Contractor's water trucks. Do not use private resident's water.

2.02 SOD

- A Species: Bermuda (Cynodon Dactylon), Buffalo (Buchloe Dactyloides), or St. Augustine to match existing or as directed.
- B Contents: 95 percent permanent grass suitable to climate in which it is to be placed; not more than 5 percent weeds and undesirable grasses; good texture, free from obnoxious grasses, roots, stones and foreign materials.
- C Size: 12 inch wide strips, uniform in thickness (2 inch minimum with clean-cut edges).
- D Sod is to be supplied and maintained in a healthy condition as evidenced by the grass being a normal, green color.

3.0 EXECUTION**3.01 PREPARATION**

- A Do not start work until conditions are satisfactory. Do not start work during inclement or impending inclement weather. Perform Sodding only when weather and soil conditions are deemed by Engineer to be suitable for proper placement.

- B After the areas to receive sod are brought to grade, rake out any foreign organic or inorganic material, including stones, hard clay lumps and other debris.
- C Level with Bank Sand or Topsoil, as approved by the Engineer.
- D Loosen the subgrade by discing or by scarifying to a depth of at least 4 inches.
- E Place and compact topsoil in accordance with requirements of Section 02910 – Topsoil. Top soil shall be free of weeds and foreign material immediately before sodding.
- F Spread 2-inch (± 1 ") layer of Bank Sand over prepared topsoil.
- G Prior to placing sod, rake areas smooth, free from unsightly variations, bumps, ridges, or depressions, and completely free from stones, hard clay lumps and other debris.
- H Apply fertilizer at a rate of 25 lbs/1000 SF. Apply after raking soil surface and not more than 48 hours prior to laying sod. Mix thoroughly into upper 2 inches of soil. Lightly water to aid in dissipation of fertilizer.

3.02 APPLICATION

- A Lay sod with closely fitted joints leaving no voids and with ends of sod strips staggered. Sod shall be laid within 24 hours of harvesting.
- B After sod is laid, irrigate thoroughly to secure 6-inch minimum penetration into soil below sod.
- C Tamp and roll sod with approved equipment to eliminate minor irregularities and to form close contact with soil bed immediately after planting and watering. Submit type of tamping and rolling equipment to be used to the Engineer for approval, prior to construction.

3.03 MAINTENANCE

- A Maintenance Period:
 - 1. Begin maintenance immediately after each section of grass sod is installed and continue for a 30-day period from date of Substantial Completion.
 - 2. Re-sod unacceptable areas.
 - 3. Water, fertilize, control disease and insect pests, mow, edge, replace unacceptable materials, and perform other procedures consistent with good horticultural practice to ensure normal, vigorous and healthy growth. All disease control shall be installed within guidelines set forth by the Structural Pest Control Board of the State of Texas.
 - 4. Notify Engineer 10 days before end of maintenance period for inspection.
- B Watering:
 - 1. Water lawn areas once a day with minimum 1/2 inch water for the first 3 weeks after area is sodded.

2. After 3-week period, water twice a week with 3/4 inch of water each time unless comparable amount has been provided by rain.
 3. Make weekly inspections to determine moisture content of soil unless soil is in frozen condition.
 4. Water in the morning to enable soil to absorb maximum amount of water with minimum evaporation.
- C Mowing:
1. Mow sod at intervals which will keep grass height from exceeding 3-1/2 inches.
 2. Set mower blades at 2-1/2 inches.
 3. Do not remove more than one-half of grass leaf surface.
 4. Sodded areas requiring mowing within 1 month after installation, shall be mowed with a light-weight rotary type mower. The sod shall be mowed only when dry and not in a saturated or soft condition.
 5. Remove grass clippings during or immediately after mowing.
- D Fertilizer and Pest Control:
1. Evenly spread fertilizer composite at a rate of 40 pounds per 5,000 square feet or as recommended by manufacturer. Fertilizer shall not be placed until 2 weeks after placement of sod.
 2. Restore bare or thin areas by topdressing with a mix of 50 percent sharp sand and 50 percent sphagnum peat moss.
 3. Apply mixture 1/4 to 1/2 inch thick.
 4. Treat areas of heavy weed and insect infestation as recommended by treatment manufacturer.

3.04 CLEAN-UP AND RESTORATION

- A Perform clean-up and restoration in and around construction zone in accordance with Section 01140 - Contractor's Use of Premises.

3.05 PROTECTION OF THE WORK

- A Protect and maintain sod in good condition until 30 days after Substantial Completion.
- B Replace sod damaged by Contractor's operations at no cost to Owner.

END OF SECTION