

**SECTION 02915
SODDING**

PART I: GENERAL

1.1 GENERAL REQUIREMENTS

- A. Restoration of existing lawn areas disturbed by construction shall be by installation of new sod.
- B. Planting of sod within areas designated on the Drawings for purpose of surface stabilization, channel stabilization or vegetation buffer strips.
- C. Sod is defined as blocks, squares, strips of turfgrass and adhering soil used for vegetative planting. To be placed edge to edge for complete coverage.
- D. Lawn is defined as ground covered with fine textured grass kept neatly mowed.

1.2 MEASUREMENT AND PAYMENT

- A. Unit Prices:
 - 1. Payment for sodding is on a square yard basis.
 - 2. Refer to Section 01270 – Measurement and Payment for unit price procedures.
- B. Stipulated Price (Lump Sum):
 - 1. If Contract is Stipulated Price Contract, payment for work in this Section is included in Total Stipulated Price.

1.3 SUBMITTALS

- A. Conform to requirements of Section 01330 – Submittal Procedures.

1.4 REFERENCES

- A. CFTS – City of Friendswood Technical Specifications.
- B. Structural Pest Control Board of the State of Texas.

1.5 QUALITY ASSURANCE

- A. Sod only when weather and soil conditions are deemed by the Project Manager to be suitable for proper placement.
- B. Water and fertilize new sod.
- C. Guarantee sod to be growing thirty days (30 D) after substantial completion.
- D. Maintenance Period:
 - 1. Begin maintenance immediately after each section of grass sod is installed and continue for thirty day (30 D) period from date of substantial completion.
 - 2. Re-sod unacceptable areas.
 - 3. Water, fertilize, control disease and insect pests, mow, edge,

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replace unacceptable materials and perform other procedures consistent with good horticultural practice to ensure normal, vigorous and healthy growth. Install disease control within guidelines set forth by Structural Pest Control Board of the State of Texas.

- E. Notify the Project Manager ten days (10 D) before end of maintenance period for inspection.

PART II: PRODUCTS

2.1 SOD

- A. Species: Bermuda (Cynodon Dactylon), Buffalo (Buchloe Dactyloides) or St. Augustine (Stenotaphrum Secundatum) Gulf Coast variety to match existing sod.
- B. Contents: ninety-five percent (95%) permanent grass suitable to climate in which it is to be placed; not more than five percent (5%) weeds and undesirable grasses; good texture, free from obnoxious grasses, roots, stones and foreign materials.
- C. Size: twelve inch (12 In) wide strips, uniformly two inches (2 In) thick with clean-cut edges.
- D. Sod is to be supplied and maintained in healthy condition as evidenced by grass being normal green color.

2.2 FERTILIZER

- A. Available nutrient percentage by weight: twelve percent (12%) nitrogen, four percent (4%) phosphoric acid and eight percent (8%) potash; or fifteen percent (15%) nitrogen, five percent (5%) phosphoric acid and ten percent (10%) potash.

2.3 WEED AND INSECT TREATMENT

- A. Provide acceptable treatment to protect sod from weed and insect infestation. Submit treatment method to the Project Manager for approval. Install insect and disease control within guidelines set forth by Structural Pest Control Board of the State of Texas.

2.4 WATER

- A. Potable, available on-site through the Contractor's water trucks. The Contractor may use the City of Friendswood hydrants when water use is measured and verified. Do not use private resident's water.

2.5 BANK SAND

- A. Free of clay lumps, roots, grass, salt or other foreign material.

PART III: EXECUTION

3.1 PREPARATION

- A. Verify that soil placement and compaction have been satisfactorily completed. Verify that soil is within allowable range of moisture content.
- B. Top soil shall be free of weeds and foreign material immediately before sodding.
- C. Do not start the Work until conditions are satisfactory. Do not start the Work during inclement or impending inclement weather.
- D. Rake areas to be sodded smooth, free from unsightly variations, bumps, ridges or depressions.
- E. Two inches (2 In) of top soil shall be placed for sodding preparation in conformance of Section 02905 – Topsoil over areas to be sodded prior to planting of sod.
- F. Apply fertilizer at rate of twenty-five pounds (25 Lbs) per 1000 square feet. Apply after raking soil surface and not more than forty-eight hours (48 Hrs) prior to laying sod. Mix thoroughly into upper two inches (2 In) of soil. Lightly water to aid in dissipation of fertilizer.

3.2 APPLICATION

- A. Full Sodding: Lay sod with closely fitted joints leaving no voids and with ends of sod strips staggered. Lay sod within twenty-four hours (24 Hrs) of harvesting.
- B. On slopes two to one (2:1) and steeper, lay sod perpendicular to slope and secure every row with wooden pegs at a maximum of two feet (2 Ft) on center. Drive pegs flush with soil portion of sod.
- C. Prior to placing sod, on slopes three to one (3:1) or where indicated, place Hold/Gro or Roll Lite or equal over topsoil. Securely anchor in place with posts sunk firmly into ground at a maximum of sixteen feet (16 Ft) on center along pitch of slope and equal to width of wire mesh horizontally across slopes.
- D. After sod is laid, irrigate thoroughly to secure six inch (6 In) minimum penetration into soil below sod.
- E. 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 Project Manager for approval, prior to construction.

3.3 MAINTENANCE

- A. Watering:
 - 1. Water lawn areas once a day with a minimum of one-half inch (1/2 In) of water for first three weeks (3 Wk) after area is sodded.
 - 2. After three week (3 Wk) period, water twice a week with three-quarters inch (3/4 In) of water each time unless comparable amount has been provided by rain.
 - 3. Make weekly inspections to determine moisture content of soil

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- unless soil is in frozen condition.
4. Water in afternoon or at night to enable soil to absorb a maximum amount of water with a minimum evaporation.
- B. Mowing:
1. Mow sod at intervals which shall keep grass height from exceeding three and one-half inches (3-1/2 In).
 2. Set mower blades at two and one-half inches (2-1/2 In).
 3. Do not remove more than one-half (1/2) of grass leaf surface.
 4. Mow sodded areas requiring mowing within one month (1 Mo) after installation with light-weight rotary type mower. Mow sod only when dry and not in saturated or soft condition.
 5. Remove grass clippings during or immediately after mowing.
- C. Fertilizer and Pest Control:
1. Evenly spread fertilizer composite at rate of forty pounds (40 Lbs) per five thousand square feet (5000 Sf) or as recommended by manufacturer. Do not place fertilizer until two weeks (2 Wks) after placement of sod.
 2. Restore bare or thin areas by topdressing with mix of fifty percent (50%) sharp sand and fifty percent (50%) sphagnum peat moss.
 3. Apply mixture one-quarter inch (1/4 In) to one-half inch (1/2 In) thick.
 4. Treat areas of heavy weed and insect infestation as recommended by treatment manufacturer.
- D. Restrict all traffic from sodded areas until sod is established or for a minimum of ten days (10 D) during growing season. Use wood lath and plastic tape to cordon sodded areas. Maintain tape and lath throughout for a minimum of thirty days (30 D) during growing season.
- 3.4 CLEANUP
- A. During course of planting, remove excess and waste materials; keep lawn areas clean and take precautions to avoid damage to existing structures, plants, grass and streets.
 - B. Remove barriers, signs and other the Contractor material and equipment from project site at termination of establishment period.
 - C. Dispose of unused materials and rubbish in accordance with Section 01580 – Waste Material Disposal.

END OF SECTION