

Section 02921

HYDRO MULCH SEEDING

PART 1 GENERAL

1.01 SUMMARY

This Section includes seeding, fertilizing, mulching, and maintenance of areas indicated on Plans.

1.02 MEASUREMENT AND PAYMENT

A. Unit Prices.

1. Payment for hydro mulch seeding is on an acre basis.
2. When limits of construction are shown on Plans, payment for hydro mulch will be limited to within limits of construction shown on Plans.
3. If no limits of construction are shown, payment to be per Section 01740 – “Restoration of Site”.
4. Refer to Section 01270 – “Measurement and Payment” for unit price procedures.

B. Stipulated Price (Lump Sum). If Contract is Stipulated Price Contract, payment for Work in this Section is included in total Stipulated Price.

1.03 REFERENCES

- A. Texas Department of Agriculture – “Texas Seed Law”
- B. Office of the Texas State Chemist – “Commercial Fertilizer Laws and Rules”
- C. United States Department of Agriculture (USDA) – “Federal Seed Act”

1.04 SUBMITTALS

- A. Conform to requirements of Section 01330 – “Submittal Procedures”.
- B. Submit certification from supplier that each type of seed conforms to these specifications and requirements of “Texas Seed Law”. Certification shall accompany seed delivery.
- C. Submit certificate stating that fertilizer complies with these specifications and requirements of “Commercial Fertilizer Laws and Rules”.

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STANDARD SPECIFICATION

1.05 RELATED REQUIREMENTS

- A. Section 01270 – “Measurement and Payment”
- B. Section 01330 – “Submittal Procedures”
- C. Section 01576 – “Waste Material Disposal”
- D. Section 01740 – “Restoration of Site”
- E. Section 02911 – “Topsoil”
- F. Section 02922 – “Sodding”

1.06 – 1.13 NOT USED

PART 2 PRODUCTS

2.01 MANUFACTURER(S) (NOT USED)

2.02 MATERIALS AND/OR EQUIPMENT

- A. Topsoil: Conform to material requirements of Section 02911 – “Topsoil”.
- B. Seed: Conform to U.S. Department of Agriculture rules and regulations of “Federal Seed Act” and “Texas Seed Law”. Seed shall be certified 90 percent pure and furnish 80 percent germination and meet following requirements:
 - 1. Rye: Fresh, clean, Italian rye grass seed (*loium multi-florum*), mixed in labeled proportions. As tested, minimum percentages of impurities and germination must be labeled. Deliver in original unopened containers.
 - 2. Bermuda: Extra-fancy, treated, lawn type common bermuda (*Cynodon dactylon*). Deliver in original, unopened container showing weight, analysis, name of vendor, and germination test results.
 - 3. Wet, moldy, or otherwise damaged seed will not be accepted.
 - 4. Seed requirements, application rates, and planting dates are:

TYPE	APPLICATION RATE POUNDS/A	PLANTING DATE
Hulled Common Bermuda Grass 98/88	40	Jan 1 to Mar 31
Unhulled Common Bermuda Grass 98/88	40	
Hulled Common Bermuda Grass 98/88	40	Apr 1 to Sep 30

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Hulled Common Bermuda Grass 98/88	40	Oct 1 to Dec 31
Unhulled Common Bermuda Grass 98/88	40	
Annual Rye Grass (Gulf)	30	

C. Fertilizer: Dry and free flowing, inorganic, water soluble commercial fertilizer, which is uniform in composition. Deliver in unopened containers which bear manufacturers guaranteed analysis. Caked, damaged, or otherwise unsuitable fertilizer will not be accepted. Fertilizer shall contain minimum percentages of following elements:

1. Nitrogen: 10 Percent
2. Phosphoric Acid: 20 Percent
3. Potash: 10 Percent

D. Mulch:

1. Virgin wood cellulose fibers from whole wood chips having minimum of 20 percent fibers 0.42 inches in length and 0.01 inches in diameter.
2. Cellulose fibers manufactured from recycled newspaper and meeting same fiber content and size as for cellulose fibers from wood chips.
3. Dye mulch green for coverage verification purposes.

E. Soil Stabilizer: “Terra Tack 1” or approved equal.

F. Weed control agent: Pre-emergent herbicide for grass areas, such as “Benefin,” or approved equal.

2.03 – 2.04 NOT USED

PART 3 EXECUTION

3.01 GENERAL / MANUFACTURER(S) (NOT USED)

3.02 PREPARATION

- A. Place and compact topsoil in accordance with requirements of Section 02911 – “Topsoil”.
- B. Dispose of Objectionable and Waste Materials in accordance with Section 01576 – “Waste Material Disposal”.

3.03 ERECTION/INSTALLATION APPLICATION AND/OR CONSTRUCTION

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- A. Seed: Apply uniformly at rates given in Paragraph 2.02.B for type of seed and planting date.
- B. Fertilizer: Apply uniformly at rate of 500 pounds per acre.
- C. Mulch: Apply uniformly at rate of 50 pounds per 1,000 square feet.
- D. Soil Stabilizer: Apply uniformly at rate of 40 pounds per acre.
- E. Weed Control Agent: Apply at manufacturer's recommended rate prior to hydro mulching.
- F. Sod: Lay single row of sod along perimeter where top soil and pavement intersect. Apply in conformance to Section 02922 – “Sodding”.
- G. Suspend operations under conditions of drought, excessive moisture, high winds, or extreme or prolonged cold. Obtain Project Manager approval before resuming operations.
- H. Maintenance
 - 1. Maintain grassed areas minimum of 90 days, or as required to establish an acceptable lawn. For areas seeded in fall, continue maintenance following spring until acceptable lawn is established.
 - 2. Maintain grassed areas by watering, fertilizing, weeding, and trimming.
 - 3. Repair areas damaged by erosion by regrading, rolling, and replanting.
 - 4. Reseed small, sparse grass areas. When sparse areas exceed 20 percent of planted area, reseed by hydro mulch.
 - 5. Mow grass when height reaches 3½ inches or greater on average before final acceptance. Mow to height of 2½ inches.

3.04 – 3.10 NOT USED

END OF SECTION