

SECTION 02246

LOAM AND SOIL COMPOST MIX

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SECTION 02246

LOAM, SOIL COMPOST MIX

PART 1 - GENERAL

1.01 QUALITY OF WORK AND MATERIALS

The Contractor shall furnish all materials and perform all work in accordance with these specifications, drawings, and instructions provided by the Owner's representative hereafter also referred to as the Owner. The work shall include everything shown on the drawings and required by the specifications and everything which in the judgment of the Owner is incidental to what is shown on the drawings or required by the specifications. All work completed and materials furnished and installed shall be of the best quality and shall be in strict accordance with the intention of the drawings, specifications and samples. The Contractor shall cooperate with the Owner so that no error or discrepancy in the drawings or specifications shall cause defective or inappropriate materials to be used or poor workmanship to be allowed and so that the work may proceed in the most efficient and effective manner.

1.02 WEATHER CONDITIONS

Work must be carried out only during weather conditions favorable to grass establishment construction and work within areas designed to retain and accumulate water.

1.03 PROTECTION

- A. The Contractor shall use any and all precautionary measures when performing work around trees, walks, pavements, utilities, and any other features either existing or previously installed under this contract.
- B. The Contractor shall adjust depth of earthwork and loaming when working immediately adjacent to any of the aforementioned features in order to prevent disturbing tree roots, undermining walks and pavements, and damage in general to any existing or newly incorporated item.

1.04 SAMPLES

- A. It is the responsibility of the Contractor, before ordering or purchasing materials, to provide samples of those materials to the Owner for approval, as specified below:

COMPOSTED SOIL ADMIXTURE: Submit name of supplier with appropriate nitrogen availability calculations for soil blending and complete set of available plant nutrients, pH, trace metals, total volatile, solids, soluble salts, measured water holding capacity, and maturity measurements.

1.05 GUARANTEE

- A. In addition to other standard provisions, the Contractor's bid amount shall also provide for the following:
 - 1. Maintenance necessary during Establishment Period.
 - 2. The Contractor shall also be responsible for any damages caused by his operations and shall dispose of all rubbish and excess soil as directed.

1.06 MAINTENANCE OPERATIONS BEFORE APPROVAL

- A. Grassed areas damaged during the process of the work shall be the responsibility of the Contractor, who shall restore the disturbed areas to a condition satisfactory to the Owner. This may include filling to grade, fertilizing, seeding or sodding as appropriate, and mulching.

1.07 FINAL APPROVAL

The Owner shall have the final approval for acceptance of the soil compost mix.

1.08 RELATED REQUIREMENTS

- A. Construction Drawings.
- B. An Erosion Control Program has been prepared for this project which is appended to specifications Section 02270. Strict adherence to the provisions of the Erosion Control Program as well as the requirements of this section will be required.

PART 2 - MATERIALS

2.01 COMPOSTED SOIL ADMIXTURE

The organic composted soil admixture shall meet all Maine Department of Environmental Protection guidelines under Chapter 567, Section C and must be approved for commercial landscaping. Compost shall be weed seed free and consist of approximately equal portions of municipal bio-solids, short paper fiber, wood ash, and sawdust and be the product of 15 days of thermophilic aerobic decomposition followed by 90 days of curing. Compost will be adequately stabilized, pathogen free with acceptable odor. The material shall pass through a 3/8" mesh screen, be friable and free of stones, sticks, and all objectionable debris. Compose source is subject to the review of the Engineer.

Composite Parameters:

C:N Ratio	20:1 – 35:1
Total Nitrogen	<1.5%
Maturity Index	Stabile – Very Stable
Texture	100% passing 3/8" screen
Soluble Salts	<4 mmhos/cm
Moisture Content	40-60%
Total Volatile Solids	<60%
Density	80-1200 lbs/cy

North Country Products from Resource Conservation Services, Brunswick, Maine or equal.

PART 3 - EXECUTION

3.01 PREPARATION OF SUBGRADE

- A. After the work has been completed, perform whatever grading is necessary to bring the subgrade to a true, smooth slope parallel and except where otherwise indicated 12" to receive the soil compost topsoil mix. Other subgrades shall be as indicated.
- B. Immediately before placing the loam, barrow or otherwise loosen the surface of the subgrade to a depth of two (2) inches. The subgrade shall be inspected and approved by the Owner before placing the loam.

3.03 BLENDING AND PLACING OF COMPOSTED ENHANCED LOAM MIXTURE

- A. Place and spread all soil compost to create the enhanced loam mixture over approved areas to a depth sufficiently greater than the depth required for seed areas so that after natural settlement and light rolling, the complete work will conform to the lines, grades, and elevations indicated and shall assure proper drainage in an uninterrupted pattern. Harrows and minor depressional pockets are encouraged in the wetland creating area. Supply additional mixture as needed on the specified depths under the Contract without additional costs to the Owner.

3.09 RESTORATION AND CLEAN-UP

- A. Excess and water material shall be removed daily. When turfing in an area has been completed, the area shall be cleaned of all debris and excess material. Where existing turf areas have been damaged during turfing operations, the Contractor shall restore the area to their original condition at his expense. Other paving shall be cleaned when work in adjacent areas is completed.

PART 4 – ESTABLISHMENT PERIOD

4.01 GENERAL

- A. The establishment period will be in effect until the affected area has been planted with vegetation and seed mixes specified by the drawings.

4.02 MAINTENANCE DURING THE ESTABLISHMENT PERIOD

- A. The Contractor shall provide the following maintenance where applicable: eradicating weeds, watering, fertilizing, overseeding and any other operations necessary to promote the growth of vegetation.

PART 5 – FINAL ACCEPTANCE

5.01 MAINTENANCE

The Owner's inspection shall determine whether maintenance shall continue in any part.

---END OF SECTION 02246---