

PART 1 - GENERAL

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| <u>1.1 RELATED SECTIONS</u> | <ul style="list-style-type: none">.1 Section 01 33 00 - Submittal Procedures..2 Section 01 45 00 - Quality Control..3 Section 31 22 13 - Rough Grading. |
| <u>1.2 QUALITY ASSURANCE</u> | <ul style="list-style-type: none">.1 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties..2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements. |
| <u>1.3 SOURCE QUALITY CONTROL</u> | <ul style="list-style-type: none">.1 Advise Departmental Representative of sources of topsoil to be utilized 7 days in advance..2 Contractor is responsible for soil analysis and requirements for amendments to supply topsoil as specified. Soil sampling, testing and analysis to be in accordance with Province of Newfoundland and Labrador's Standards..3 Obtain Departmental Representative's approval of equipment and methods of construct planting soil and amend stripped topsoil if required by soil's report..4 Contractor responsible to test topsoil from source prior to stripping and stockpiling for clay, sand and silt, coarse fragments, particle size, N, P, K, Mg, and organic matter..5 Inspection and testing of topsoil to be carried out by approved laboratory. |
| <u>1.4 MEASUREMENT FOR PAYMENT</u> | <ul style="list-style-type: none">.1 <u>Topsoil (150mm Thick)</u> - Placing of topsoil will be measured in square metres (m²) to thickness specified. Preparation of sub-grade for placing of topsoil, supply and application of geotextile, agricultural lime, fertilizer, grubbing and removal of existing grass and topsoil shall be consider inclusive in the unit price. |

PART 2 - PRODUCTS

- 2.1 TOPSOIL
- .1 Stripped Topsoil: Organic material obtained from stripping operation containing sufficient nutrients and organic matter to support vegetative growth. Organic material to be submitted to Newfoundland and Labrador soil's lab for recommendations regarding amendments. Obtain final approval of material from Departmental Representative before re-using.
 - .2 Imported Topsoil: Friable loam, neither heavy clay nor very light sandy nature, containing minimum 4% organic matter for clay loams and 2% for sandy loams to maximum of 25%. Free from subsoil, roots, grass, weeds, stones, foreign objects. Acidity range (pH) of 6.0 to 7.0. Topsoil containing crabgrass, couchgrass or other noxious weeds is not acceptable.
- 2.2 SOIL AMENDMENTS
- .1 Sand: Washed silica sand, medium to coarse textured.
 - .2 Limestone:
 - .1 Ground agricultural limestone containing minimum calcium carbonate equivalent of 85%.
 - .3 Peat: Natural bog peat free from deleterious material, surface vegetation and associated roots.
 - .4 Loam: Local available clay, sand and silty loam, characteristic of topsoil in texture and acceptable to Departmental Representative.
 - .5 Fertilizer:
 - .1 Complete, commercial, with 35% soluble nitrogen.
 - .2 Ratio: 6-12-12.
- 2.3 CONSTRUCTED TOPSOIL FOR PLANTING
- .1 Thoroughly mix by volume:
 - .1 4 parts imported topsoil.
 - .2 1 part saturated peat moss.
 - .3 1 part well-rotted manure.
 - .4 1 kg. bonemeal per m³ topsoil mix.

PART 3 - EXECUTION

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| <u>3.1 PLACING AND
SPREADING TOPSOIL</u> | <p>.1 Place and spread constructed topsoil to depth of 150mm after Departmental Representative has approved loosened subgrade.</p> <p>.2 Spread stripped or imported topsoil with recommended amendments of 300mm minimum depth after settlement and 80% compaction. Keep topsoil 10mm below finish grade in areas to be sodded.</p> <p>.3 Manually spread topsoil in areas hard to reach by machine.</p> |
| <u>3.2 FINISH GRADING</u> | <p>.1 Grade to eliminate rough spots and low areas and ensure positive drainage. Prepare loose friable bed by means of cultivation and subsequent raking.</p> <p>.2 Consolidate topsoil to required bulk density using equipment approved by Departmental Representative. Leave surfaces smooth, uniform and firm against deep footprinting.</p> |
| <u>3.3 ACCEPTANCE</u> | <p>.1 Departmental Representative will inspect and test topsoil in place and determine acceptance of material, depth of topsoil and finish grading. Approval of topsoil material is subject to soil testing and analysis.</p> |
| <u>3.4 RESTORATION OF
STOCKPILE SITES</u> | <p>.1 Restore stockpile sites acceptable to Departmental Representative.</p> |
| <u>3.5 SURPLUS
MATERIAL</u> | <p>.1 Dispose of materials surplus to the work in areas indicated on drawings or as directed by Departmental Representative</p> |

3.6 CLEANING .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.