
TOPSOIL

1.0 GENERAL

1.1 Related Work

- .1 Coordinate the requirements of this section with all other sections, including but not limited to:
 - .1 Section 02210 Park Grading
 - .2 Section 02933 Seeding
 - .3 Section02950 Plant Material

1.2 Quality Control

- .1 **City of Prince Albert, Public Works** to approve all topsoil, planting soil mix and soil mix amendments.
 - .1 for all topsoil material delivered to the site:
 - .1 A one (1) litre sample of topsoil (type A and B), planting soil mix and any soil mix amendments (imported topsoil, manure, and type A sand used for the Work.
- .2 **City of Prince Albert, Public Works** to review topsoil requirements for the Work before final placement.

1.3 Inspection

- .1 **Consultant** to inspect:
 - .1 Initial application of topsoil, before placement of manure.
 - .2 Placement of manure, before cultivation.
 - .3 Placement of sand in planting beds, before cultivation and planting.

1.4 Testing

- .1 Topsoil and planting soil mix is subject to tests by the City of Prince Albert, Public Works and analyses by ALS Laboratory Group, Saskatoon or other approved testing laboratory service. Testing requirements;
 - .1 PSA-2 (Particle size analysis),
 - .2 C-TOT-ORG (organic carbon),
 - .3 SAL-DETAIL+TGR (detailed salinity), and
 - .4 Soil Analysis Package 1 (for NPKS - with recommendations).

- .2 All soil mix amendments are subject to further analyses by an approved testing laboratory service.

1.5 Measurement and Payment

- .1 The Unit prices submitted shall include the supply of all labour and equipment and materials as specified or required to complete the Work as intended.
- .2 The prices submitted to be full compensation for supplying (if applicable), hauling, installing, cleaning and placing in service the Work as specified and detailed, together with all incidental Work.
- .3 Measurement for payments to be calculated on the basis of the Unit prices for the applicable item of Work as entered on the Tender Form. Topsoil (sq. m.) for turf areas and shrub planting beds includes all associated costs for placement and spreading.
- .4 Planting soil mix for all individual trees and trees/shrubs in shrub planting beds is considered incidental to cost of all plant material and will not be measured for payment.

2.0 PRODUCTS

2.1 Topsoil

- .1 Topsoil A: Existing on site, stockpiled and approved for use.

2.2 Planting Soil Mix

- .1 Planting soil mix is not required for tree or shrub plantings within shrub planting beds.
 - .1 See Soil Mix 3.3.1.

2.3 Soil Mix Amendments

- .1 Imported Topsoil (if required)
 - .1 Neither heavy clay nor of light sandy nature.
 - .2 35% Sand, 35% Silt, 30% Clay
 - .3 Containing a minimum of 5% organic matter to maximum of 20% by weight.
 - .4 Acidity range (pH) of 6.0 to 7.5.
 - .5 Free from subsoil, toxic materials, stones and foreign objects.

TOPSOIL

- .2 Manure requirements; to be well decomposed cattle excrement, rich in organic matter and humus containing balanced proportions of nitrogen, phosphorus and potash.
 - .1 Reasonably free of living vegetation, weed seeds, and couch grass or brome grass rhizomes.
 - .2 In a pulverised, friable condition, not containing fresh, or "green" manure, clay, silt, gravel or other foreign material.
- .3 Sand - Type A: Homogeneous, sharp-grained.

3.0 EXECUTION

3.1 Preparation

- .1 Re-grade areas damaged during construction of other Work before Topsoil placement.
- .2 Approval of sub grade before topsoil and soil mix placement is required.
 - .1 Excavate and remove excess sub grade material to depths required.
 - .2 Remove weeds, stones, debris, and other foreign material in excess of 50mm diameter.
 - .3 Scarify entire area to receive topsoil.
- .3 Ensure the moisture content of the Topsoil allows for ease of placement. Placement of grading of saturated topsoil's unacceptable.

3.2 Topsoil - Turf Areas

- .1 Place 75mm (minimum) of Topsoil A at all Irrigation Mix areas.
 - .1 Place 50mm manure.
 - .2 Cultivate to blend.
 - .3 Final depth of topsoil and manure combined to be min. 125 mm.

3.3 Finish Grading

- .1 See Section 02933 – Seeding

3.4 Protection

- .1 Vehicular traffic, trenching or other activities compromising the topsoil layer is not permitted.

3.5 Clean-Up

- .1 Clean adjacent walks and road surfaces at the end of each working day.

END OF SECTION