

**1 General**

**1.1 RELATED WORK**

.1 Coordinate the requirements of this section with all other sections, including but not limited to:

.1 Section 01410 Testing Laboratory Services

.2 Section 02070 Demolition, Removal and Salvage

.3 Section 02210 Rough Grading

.4 Section 02933 Seeding

.5 Section 02938 Sodding

.6 Section 02950 Plant Material

**1.2 QUALITY CONTROL**

.1 **City of Saskatoon, Parks Branch** to approve topsoil, sportsfield soil mix, planting soil mix and soil mix amendments.

.1 Submit for topsoil material before delivery to site:

.1 One (1) litre sample of topsoil (type A and B), sportsfield soil mix, planting soil mix and soil mix amendments (imported topsoil, manure, and type A sand)

.2 **City of Saskatoon, Parks Branch** to review topsoil requirements for the Work before final topsoil placement.

**1.3 INSPECTION**

.1 **Consultant** to inspect:

.1 Initial application of topsoil, before placement of organic matter.

.2 Placement of organic matter, before cultivation.

.3 Placement of sportsfield soil mix.

**1.4 TESTING**

.1 Topsoil, sportsfield soil mix and planting soil mix is subject to tests by **City of Saskatoon, Parks Branch** and analyses by ALS Laboratory Group, Saskatoon or other approved testing laboratory service.

- .2 Soil tests required:
  - .1 PSA-2 (Particle size analysis).
  - .2 C-TOT-ORG (organic carbon).
  - .3 SAL-DETAIL+TGR (detailed salinity).
  - .4 Soil Analysis Package 1 (for NPKS - with recommendations).
- .3 All soil mix amendments are subject to analyses by an approved testing laboratory service.

## **2 Products**

### **2.1 TOPSOIL**

- .1 Topsoil A: existing on site, stockpiled and approved for use.
- .2 Topsoil B: imported topsoil approved for use.

### **2.2 SPORTSFIELD SOIL MIX**

- .1 Screened soil, friable mix composed of:
  - .1 50% Imported Topsoil.
  - .2 25% Organic Matter.
  - .3 25% Sand-Type A.

### **2.3 PLANTING SOIL MIX**

- .1 Planting soil mix for individual trees and perennial planting beds see 2.2.1.
- .2 Planting soil mix is not required for trees or shrubs within shrub planting beds.
  - .1 Soil mix see 3.6.1.

### **2.4 SOIL MIX AMENDMENTS**

- .1 Imported Topsoil:
  - .1 Neither heavy clay nor of light sandy nature.
    - .1 35% Sand, 35% Silt, 30% Clay.
  - .2 Containing a minimum of 5% organic matter to maximum of 20% by weight.
  - .3 Acidity range of 6.0 - 7.5 pH.

**TOPSOIL**

- .4 Free from subsoil, toxic materials, stones and foreign objects.
- .2 Organic matter to be either manure or compost.
  - .1 Manure to consist of 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 Completely free of noxious weed seeds.
    - .3 In pulverised, friable condition, not containing fresh, or "green" manure, clay, silt, gravel or other foreign material.
  - .2 Compost as supplied by the City of Saskatoon.
- .3 Sand - Type A: Homogeneous, sharp-grained.

**3 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 De-compact entire area to receive topsoil to a min. depth of 150mm.
- .3 Ensure moisture content of the topsoil allows for ease of placement. Placement or grading of saturated topsoil is unacceptable.

**3.2 TOPSOIL - TURF AREAS (Boulevards, Medians and Municipal Buffers)**

- .1 Place min. 100mm of Topsoil B for Dryland Mix areas.
- .2 Place min. 100mm of Topsoil B for Irrigation Mix areas.
  - .1 Place 50mm organic matter.
  - .2 Cultivate to blend.
  - .3 Final depth of topsoil and manure combined is min. 150mm.

**3.3 TOPSOIL - TURF AREAS (Municipal Reserves / Parks)**

- .1 Place min. 100mm of Topsoil A or B for Irrigation Mix, Dryland Mix and Toboggan Hill Mix areas.
  - .1 Place 50mm organic matter.
  - .2 Cultivate to blend.
  - .3 Final depth of topsoil and manure combined is min. 150mm.

**3.4 SPORTSFIELD SOIL MIX (Soccer Pitches and Ball Diamond Outfields)**

- .1 Place 150mm of Sportsfield Soil Mix for Sportsfield Mix areas.

**3.5 SHRUB PLANTING BEDS**

- .1 Place 100mm of Topsoil A or B for shrub beds.
  - .1 Place 150mm organic matter.
  - .2 Cultivate to blend.

**3.6 FINISH GRADING**

- .1 See Section 02933 - Seeding and/or Section 02938 - Sodding.

**3.7 PROTECTION**

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

**3.8 CLEAN-UP**

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

**END OF SECTION**