

Approved: 2011-06-30

**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1        Section 01 74 11 Cleaning
- .2        Section 32 91 19.13 Topsoil Placement and Grading

**1.2                UNIT PRICES**

- .1        The unit of measurement shall be based on actual area surface measurements taken and computed by Departmental Representative for:
  - .1        Commercial Grade Turf Grass Nursery Sod per square metre.
- .2        Payment for the work of this Section will be made in accordance with the unit prices contained in the Schedule of Quantities and Prices and shall include supplying and placing the specified sod and be inclusive of all labour, equipment and products. All costs associated with the management and disposal of materials are deemed to be included in the contract unit price.
- .3        No separate payment will be made for sod placed outside the limits approved in advance by the Departmental Representative.

**1.3                ADMINISTRATIVE REQUIREMENTS**

- .1        Scheduling:
  - .1        Schedule sod laying to coincide with the completion of preparation of soil surface.
  - .2        Schedule sod installation when frost is not present in ground.
  - .3        Pre-Installation Meetings: conduct pre-installation meeting to verify project requirements, installation instructions and warranty requirements.

**1.4                ACTION AND INFORMATIONAL SUBMITTALS**

- .1        Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2        Samples.
  - .1        Submit:
    - .1        Sod for the type specified.
  - .2        Obtain approval of sample by Departmental Representative.
- .3        Certificates: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements of seed mix, seed purity, and sod quality.

**1.5                DELIVERY, STORAGE AND HANDLING**

- .1        Deliver, store and handle materials in accordance with manufacturer's written instructions.

- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
  - .1 Store materials in accordance with supplier's recommendations.
  - .2 Replace defective or damaged materials with new.

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Commercial Grade Turf Grass Nursery:
  - .1 Mow sod at height directed by Departmental Representative within 36 hours prior to lifting, and remove clippings.
  - .2 Not more than 5 broadleaf weeds and up to 20% native grasses per 40 square metres.
- .2 Water:
  - .1 Source supplied by Departmental Representative at designated source.
- .3 Fertilizer:
  - .1 To Canada "Fertilizers Act" and Fertilizers Regulations.
  - .2 Complete, synthetic, slow release with 65 % of nitrogen content in water-insoluble form.

### **2.2 SOURCE QUALITY CONTROL**

- .1 Obtain written approval from Departmental Representative of sod at source.
- .2 When proposed source of sod is approved, use no other source without written authorization from Departmental Representative.

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections are acceptable for sod installation in accordance with manufacturer's written instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3 Proceed with installation only after unacceptable conditions have been remedied and after approval to proceed from Departmental Representative.

### **3.2 PREPARATION**

- .1 Verify that grades are correct and prepared in accordance with Section 32 91 19.13 - Topsoil Placement and Grading. If discrepancies occur, notify Departmental Representative and commence work when instructed by Departmental Representative.
- .2 Do not perform work under adverse field conditions such as frozen soil, excessively wet soil or soil covered with snow, ice, or standing water.
- .3 Finish grade surface free of humps and hollows to smooth, even grade, to surrounding contours, to tolerance of plus or minus 15 mm for surface to drain naturally.
- .4 Remove and dispose of weeds; debris; stones 50 mm in diameter and larger; soil contaminated by oil, gasoline and other deleterious materials; off site in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.

### **3.3 SOD PLACEMENT**

- .1 Lay sod within 24 hours of being lifted if air temperature exceeds 20 degrees C.
- .2 Lay sod sections in rows, joints staggered. Butt sections closely without overlapping or leaving gaps between sections. Cut out irregular or thin sections with sharp implements.
- .3 Roll sod as directed by Departmental Representative. Provide close contact between sod and soil by light rolling. Use of heavy roller to correct irregularities in grade is not permitted.

### **3.4 SOD PLACEMENT ON SLOPES AND PEGGING**

- .1 Install in areas indicated, in accordance with manufacturer's instructions.
- .2 Start laying sod at bottom of slopes.
- .3 Peg sod on slopes steeper than 3 horizontal to 1 vertical, within 1 m of catch basins and within 1 m of drainage channels and ditches to following pattern:
  - .1 100 mm below top edge at 200 mm on centre for first sod sections along contours of slopes.
  - .2 Not less than 3-6 pegs per square metre.
  - .3 Not less than 6-9 pegs per square metre in drainage structures. Adjust pattern as directed by Departmental Representative.
  - .4 Drive pegs to 20 mm above soil surface of sod sections.

### **3.5 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Leave Work area clean at end of each day.
  - .2 Keep pavement and area adjacent to site clean and free from mud, dirt, and debris at all times.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
  - .1 Clean and reinstate areas affected by Work.

- .3 Waste Management: separate waste materials for reuse in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
  - .1 Remove recycling and compost containers and bins from site and dispose of materials at appropriate facility.

### **3.6 PROTECTION BARRIERS**

- .1 Protect newly sodded areas from deterioration with snow fence on rigid frame as directed by Departmental Representative.
- .2 Remove protection 2 weeks after installation as directed by Departmental Representative.

### **3.7 MAINTENANCE DURING ESTABLISHMENT PERIOD**

- .1 Perform following operations from time of installation until acceptance.
  - .1 Upon installation, perform one (1) watering event of the sodded areas in sufficient quantities required to maintain optimum soil moisture condition to depth of 100 mm.
  - .2 Departmental Representative to arrange with others for all subsequent watering of the sod.
  - .3 Temporary barriers or signage to be maintained where required to protect newly established sod.

### **3.8 ACCEPTANCE**

- .1 Sodded Commercial Grade Turf Grass Nursery Sod areas will be accepted by Departmental Representative provided that:
  - .1 Sodded areas are properly established.
  - .2 Sod is free of bare or dead spots and extent of weeds apparent in grass is acceptable.

### **3.9 MAINTENANCE DURING WARRANTY PERIOD**

- .1 Perform following operations from time of acceptance until end of warranty period:
  - .1 Water and fertilize sodded areas once (1) to obtain optimum soil moisture conditions to depth of 100 mm.
  - .2 Departmental Representative to arrange with others for all subsequent watering of the sod.
- .2 Until demobilizing from the site, repair and resod dead or bare spots to satisfaction of Departmental Representative.

**END OF SECTION**