

PART 1 - GENERAL

1.1 Related Sections

- .1 Section 01 33 00 – Submittal Procedures.
- .2 Section 32 91 19.13 – Topsoil and Grading.

1.2 Quality Assurance

- .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.
- .3 Pre-Installation Meetings: conduct pre-installation meeting to verify project requirements, installation instructions and warranty requirements.
- .4 **If sod rolls come with mesh, remove all mesh prior to laying sod.**

1.3 Scheduling

- .1 Schedule sod laying to coincide with preparation of soil surface.
- .2 Schedule sod installation when frost is not present in ground.

1.4 Waste Management and Disposal

- .1 Separate and recycle waste materials according to project Waste Management Plan.
- .2 Divert unused fertilizer from landfill to official hazardous material collections site approved by the Consultant and/or Owner's Representative.
- .3 Do not dispose of unused fertilizer into sewer systems, into lakes, streams, onto ground or in locations where it will pose health or environmental hazard.
- .4 All Work to be done as described within.

PART 2 - PRODUCTS

2.1 Materials

- .1 Number One Turf Grass Nursery Sod: sod that has been especially sown and cultivated in nursery fields as turf grass crop.

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- .2 Turf Grass Nursery Sod types:
 - .1 Number One Kentucky Bluegrass Sod: Nursery Sod grown solely from seed of cultivars of Kentucky Bluegrass, containing not less than 50% Kentucky Bluegrass cultivars.
 - .3 Turf Grass Nursery Sod quality:
 - .1 Not more than 2 broadleaf weeds or 10 other weeds per 40 square metres.
 - .2 Density of sod sufficient so that no soil is visible from height of 1500 mm when mown to height of 50 mm.
 - .3 Mowing height limit: 35 to 65 mm.
 - .4 Soil portion of sod: 6 to 15 mm in thickness.
 - .4 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 approval from the Consultant and/or Owner's Representative of sod at source. Peat based sod will not be accepted.
- .2 When proposed source of sod is approved, use no other source without written authorization from the Consultant and/or Owner's Representative.

PART 3 - EXECUTION

3.1 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 Consultant and do not commence work until instructed by the Consultant and/or Owner's 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 Fine grade surface free of humps and hollows to smooth, even grade, to contours and elevations indicated, to tolerance of plus or minus 8 mm, for Turf Grass Nursery Sod surface to drain naturally.
- .4 Remove and dispose of weeds, debris and stones off site.
- .5 Soil contaminated by oil, gasoline and other deleterious materials; to a licenced contaminated soils disposal site as directed by the Consultant and/or Owner's Representative.

3.2 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 the Consultant and/or Owner's Representative.
- .4 Provide close contact between sod and soil by light rolling. Use of heavy roller to correct irregularities in grade is not permitted.

3.3 Fertilizing Program

- .1 Fertilize sodded areas six weeks after sodding. Spread evenly at rate of 0.5kg of nitrogen/100m² and water in well. Second application of fertilizer to be applied in the late summer (spring sodding) or in the spring (fall sodding). Postpone fertilizing until next spring and late summer for sodding carried out after September 30.

3.4 Maintenance During Establishment Period

- .1 Perform following operations from time of installation until acceptance.
- .2 Water sodded areas in sufficient quantities and at frequency required to maintain optimum soil moisture condition to depth of 75 to 100 mm.
- .3 Cut grass to 50 mm when or prior to it reaching height of 80 mm. Remove clippings which will smother grassed areas.
- .4 Maintain sodded areas weed free 95%.
- .5 Fertilize areas in accordance with fertilizing program. Spread half of required amount of fertilizer in one direction and remainder at right angles and water in well.

3.5 Acceptance

- .1 Turf Grass Nursery Sod areas will be accepted by the Consultant and/or Owner's Representative provided that:
 - .1 Sodded areas are properly established.
 - .2 Sod is free of bare and dead spots.
 - .3 No surface soil is visible from height of 1500 mm when grass has been cut to height of 50 mm.
 - .4 Sodded areas have been cut minimum 2 times prior to acceptance.
- .2 Areas sodded in fall will be accepted in following spring one month after start of growing season provided acceptance conditions are fulfilled.

- .3 Sodded areas that fail to obtain acceptance shall be replaced with new sod which shall meet the requirements of this specification prior to receiving acceptance.

3.6 Cleaning

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

END OF SECTION