

## **PART I - GENERAL**

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|------------------------------|----|---|---|---------------|
| <u>1.1 Related Work</u>      | .1 | Rough Grading   | : | Section 02211 |
|                              | .2 | Topsoil and Finish Grading  | : | Section 02212 |
|                              | .3 | Planting  | : | Section 02950 |
|                              | .4 | Hydraulic Seeding   | : | Section 02934 |
|                              | .5 | Seeding   | : | Section 02933 |
| <u>1.2 Scope of Work</u>     | .1 | This section applies to all areas that are intended to be fine graded and sodded.   |   |               |
|                              | .2 | Coordinate work in this section with work in all other sections.  |   |               |
| <u>1.3 Quality Assurance</u> | .1 | Contractor  |   |               |
|                              | .1 | The contractor shall supervise all work in this section including implementation and all maintenance until Final Acceptance of the works by the City.                         |   |               |
|                              | .2 | The contractor shall obtain approvals for suppliers, sub-contractors, and materials to be used in this section of work.   |   |               |
|                              | .3 | The contractor / sub-contractor implemented works in this section shall meet the standards of "Landscape Ontario" and shall be approved by the Community Services Department. |   |               |
|                              | .2 | Sod Supplier  |   |               |
|                              | .1 | The supplier of sod shall meet the standards and requirements of the "Nursery Sod Growers Association of Ontario".  |   |               |
|                              | .2 | <b>Obtain City's approval of source of sod.</b> Contractor shall submit proof that the sod delivered to the site was obtained from the approved source and is #1 Nursery Sod. |   |               |

- 1.4 Product Delivery, Storage, Handling
- .1 Schedule deliveries in order to keep storage at job site to minimum without causing delays.
  - .2 Protect sod from drying out during transportation.
  - .3 Deliver, unload and store sod on pallets. Keep sod moist and cool at all times.
  - .4 Deliver sod to site within 24 hours of being lifted and lay sod within 36 hours of being lifted.
  - .5 Irregular or broken pieces of sod will not be accepted.
  - .6 During wet weather allow sod to dry sufficiently to prevent tearing during lifting and handling.
  - .7 During dry weather protect sod from drying and water sod as necessary to ensure its vitality and prevent dropping of soil in handling. Dry sod will be rejected.
  - .8 Deliver fertilizers and similar material to site packed in standard containers, clearly marked with contents, weight, analysis and name of manufacturer.
  - .9 Store fertilizer in dry, weatherproof storage areas.
- 1.5 Alternatives
- .1 Should the contractor proceed to use material not previously approved or materials contrary to the specifications, the Community Services Department will proceed to have such works rectified at the contractor's expense.
- 1.6 Job Conditions
- .1 Do not lay sod on frozen, snow or ice covered ground.
- 1.7 Scheduling
- .1 Schedule sod laying to coincide with topsoil operations.
- 1.8 Guarantee and Replacements
- .1 Guarantee all sodded areas from installation until City accepts sodded areas and undertakes maintenance of the sod.
  - .2 Replacement during Guarantee Period
    - .1 Replace sod that is dead, in an unhealthy and

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unsatisfactory growing condition or in any other way that does not meet the requirements of the specifications and the City's standards.

- .2 The contractor shall not be responsible for replacement resulting from theft or vandalism.
- .3 Replacement sod shall be sod of the same mix as that originally installed.

## **PART II - PRODUCTS**

### **2.1 Materials**

- .1 Nursery Sod : Certified No. 1 Cultivated Turf Grass Sod to comply with standards outlined in most current "Guide Specification for Nursery Stock", published by the Canadian Nursery Trades Association.
  - .1 Sod to be sourced from a supplier approved by the Community Services representative. No other source to be used without written consent of the Community Services representative.
  - .2 Broken, dry or discoloured pieces of sod will be rejected by the Community Services representative.
  - .3 Sod shall be permeated with a strong fibrous root system; be uniform in texture and free from weeds and stones; be in a good healthy condition with no sign of decay, burned or bare spots; and contain sufficient moisture to maintain its vitality during transportation and placement.
  - .4 Each section of sod shall be approximately 450 mm wide, 1.8 m long and at least 20 mm thick.
  - .5 Supply sod which has been grown for two (2) years prior to cutting.
- .2 Water: potable and free of impurities that would inhibit growth.
- .3 Hardwood Pegs: 25 mm x 25 mm x 250 mm minimum size.
- .4 Fertilizer :

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- .1 Supply all fertilizers as required or as recommended by the soils analysis report and the sod supplier.
  - .2 Unless otherwise noted, use complete synthetic slow release fertilizer with maximum 35% water soluble nitrogen.

### **PART III - EXECUTION**

#### **3.1 Inspection**

- .1 Prior to laying sod, verify that all related work in other sections has been completed and that vehicular and construction access will not be necessary over proposed sodded areas.
- .2 Prior to laying sod, verify that existing topsoil installation, finish grades and depth are complete and approved by the Community Services Department. Finished surface shall have compaction of 85% Standard Proctor Density, and be smooth, firm against foot prints, and with a fine loose texture prior to sodding.

#### **3.2 Workmanship**

- .1 Lay sod during growing season. Laying sod during adverse weather, including freezing and/or excessively wet or dry conditions is not permitted.
- .2 Ensure site is well drained.
- .3 Clean up soil or debris spilled onto adjoining surfaces and dispose of deleterious materials immediately.

#### **3.3 Laying of Sod**

- .1 Apply fertilizer in the presence of the Community Services representative and as per soil tests and manufacturer's recommendations. Fertilizer to be distributed evenly into the topsoil by discing, raking or harrowing a minimum of 48 hrs. prior to laying of sod. Notification of fertilizer application and sod installation to be given to the Community Services representative a minimum of 2 working days prior to work commencing.
- .2 Lay sod in rows, perpendicular to slope, smooth and even with adjoining surface, and with joints staggered. Butt sections closely without overlapping or leaving gaps between sections. Cut out irregular or thin sections with a sharp knife.

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- .3 Lay sod smoothly and flush with adjoining sod, curbs and pavement areas.
  - .4 Provide close contact between sod and soil by means of light roller. Heavy rolling to correct irregularities in grade is not permitted.
  - .5 Water newly sodded areas immediately after laying sod to obtain moisture penetration through sod into the top 100 mm of topsoil.
  - .6 Provide adequate protection of sodded areas against erosion, subsequent construction work and mechanical damage. Remove protection after lawn areas have been accepted.
- 3.4 Laying of Pegged Sod
- .1 Lay sod sections perpendicular to the slope, on areas steeper than 3:1 and secure with wooden pegs. Place 3 pegs per m<sup>2</sup>, 10 mm from top edge to prevent shifting of sod and drive pegs flush with top of sod soil level. Ensure that stakes do not affect service and/or utility lines below grade. Provide a minimum of 3 stakes per roll of sod.
- 3.5 Maintenance
- .1 Ensure maintenance equipment suitable to City.
  - .2 Maintain sodded area from the time of installation until the first cut of sod has been completed AND all sodded areas have received Acceptance by City staff.
  - .3 Maintenance shall include all necessary measures to establish and maintain grass in a healthy, vigorous growing condition. Maintenance shall include, but not be limited to the following work:
    - .1 Watering when required in sufficient quantities and at a frequency to prevent sod from drying out and to maintain topsoil under sod continuously moist to a depth of 75 to 100 mm. Water sufficiently to ensure that sod has become firmly rooted in the topsoil.
    - .2 Mowing at regular intervals to maintain a maximum height of 50 mm. Do not cut more than 1/3 of the grass height at any one mowing. Trim and clip edges. Remove clippings.

- .3 Fertilizing sodded areas one month after sodding, based on mixtures and rates as per supplier's and manufacturer's instructions and soil test results. Postpone fertilizing until the spring following a fall installation.
  - .4 Make good any erosion that results from faulty workmanship and/or material at no extra cost.
  - .5 Replace any deteriorated or bare spots with new sod.
- 3.6 Acceptance
- .1 Prior to the park works being eligible to receive Preliminary Acceptance by the City, the seeded areas shall meet the following criteria:
    - .1 All sodded areas are firmly rooted, healthy, vigorous, free of weeds, bare spots and neatly mowed at time of inspection.
    - .2 A minimum of one cut has been carried out on the sodded areas.
  - .2 Lawns sodded in fall will be inspected the following season.
  - .3 Dispose materials not required for the construction of the works off site.

**END OF SECTION 02938**