

**Part 1            General**

**1.1            RELATED REQUIREMENTS**

- .1        The list of work sections in this division is indicative and non-exhaustive. It does not exclude the works described in the other specification sections, shown in the drawings or necessary for the execution of the works in keeping with overall intent of the plans.
- .2        Section 31 11 00 - Clearing and Grubbing.
- .3        Section 31 23 33.01 - Excavating, Trenching and Backfilling.
- .4        Section 31 23 16.26 - Rock Excavation.

**1.2            REFERENCES**

- .1        American Society for Testing and Materials (ASTM)
  - .1        ASTM D698-91(1998), Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (600 kN-m/m).

**1.3            EXISTING CONDITIONS**

- .1        Refer to the subsoil study's reports attached to these specifications in appendix 3.
- .2        Known underground and surface utility lines and buried objects are as indicated on site plan.
- .3        Refer to paragraph about dewatering in Section 31 23 33.01 - Excavating Trenching and Backfilling.

**1.4            PROTECTION**

- .1        Protect and/or transplant existing fencing, trees, landscaping, natural features, bench marks, buildings, pavement, and surface or underground utility lines that are to remain, as directed by Departmental Representative. If damaged, restore to original or better condition unless directed otherwise.
- .2        Maintain access roads to prevent accumulation of construction-related debris on roads.

**Part 2            Products**

**2.1            MATERIALS**

- .1        Excavated or graded material existing on site may be suitable to use as fill for grading work if approved by Departmental Representative.

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**Part 3            Execution**

**3.1                GRADING**

- .1        Rough grade to levels, profiles, and contours allowing for surface treatment as indicated.
- .2        Slope rough grade away from building as directed.
- .3        Prior to placing fill over existing ground, scarify surface to depth of 150 mm. Maintain fill and existing surface at approximately same moisture content to facilitate bonding.
- .4        Compact filled and disturbed areas to maximum dry density determined in accordance with ASTM D698, i.e. :
  - .1        95 % under paved and sidewalk areas.
- .5        Do not disturb soil within branch spread of trees or shrubs to remain.

**3.2                TESTS**

- .1        Inspection and testing of soil compaction will be carried out by testing laboratory designated by Departmental Representative. Costs of tests will be paid under a Cash Allowance by Owner. Refer to Sections 01 29 83 - Payment Procedures - Testing Laboratory Services and 01 45 00 - Quality Control.

**3.3                REMOVAL OF SURPLUS MATERIALS**

- .1        Remove surplus material and material unsuitable for fill, grading or landscaping off site, as directed by Departmental Representative.

**END OF SECTION**