

PART 1 - GENERAL

- 1.1 RELATED REQUIREMENTS .1 Section 31 23 33.01 - Excavating, Trenching and Backfilling.
- 1.2 REFERENCES .1 ASTM International
.1 ASTM D 698-07e1, Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (600 kN-m³).
- .2 Canada Green Building Council (CaGBC)
.1 LEED Canada 2009 for Design and Construction-2010, LEED Canada 2009 for Design and Construction Leadership in Energy and Environmental Design Green Building Rating System Reference Guide.
- .3 Underwriters' Laboratories of Canada (ULC)
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Sustainable Design Submittals:
.1 LEED Canada submittals: in accordance with Section 01 35 21 - LEED Requirements.
.2 Construction Waste Management:
.1 Submit project Waste Management Plan highlighting recycling and salvage requirements.
.2 Submit calculations on end-of-project recycling rates, salvage rates, and landfill rates demonstrating that 75% of construction wastes were recycled or salvaged.
.3 Erosion and Sedimentation Control: submit copy of erosion and sedimentation control plan in accordance with authorities having jurisdiction and Section 01 35 21 - LEED Requirements.
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- 1.4 EXISTING CONDITIONS
- .1 Examine ESA Report located in Appendix G of this specification.
 - .2 Known underground and surface utility lines and buried objects are as indicated on site plan.
 - .3 Existing underground steam pipe insulation contains asbestos.
 - .4 Refer to dewatering in Section 31 23 33.01 - Excavating, Trenching and Backfilling.

PART 2 - PRODUCTS

- 2.1 MATERIALS
- .1 Fill material: Type 3 fill in accordance with of Section 31 23 33.01 - Excavating, Trenching and Backfilling.

PART 3 - EXECUTION

- 3.1 STRIPPING OF TOPSOIL
- .1 Do not handle topsoil while in wet or frozen condition or in any manner in which soil structure is adversely affected as determined by Departmental Representative.
 - .2 Commence topsoil stripping of areas as indicated after area has been cleared of brush, weeds and grasses and removed from site.
 - .3 Strip topsoil to depths as indicated as directed by Departmental Representative. Rototill weeds and grasses and retain as topsoil on site. Avoid mixing topsoil with subsoil.
 - .4 Stockpile in locations as directed by Departmental Representative. Stockpile height not to exceed 2m.
 - .5 Dispose of unused topsoil off site.
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- 3.2 STRIPPING OF ORGANIC LAYER .1 Remove organic material layer as indicated.
- 3.3 GRADING .1 Place fill material to levels allowing for surface treatment as indicated. Departmental Representative shall approved subgrade before placement of fill material.
- .2 Compact filled and disturbed areas to maximum dry density to ASTM D 698, as follows:
- .1 85% under landscaped areas.
 - .2 98% under paved and walk areas.
 - .3 100% under buildings.
- .3 Do not disturb soil within branch spread of trees or shrubs to remain.
- 3.4 TESTING .1 Inspection and testing of soil compaction will be carried out by independent inspection and testing agency designated by Departmental Representative. Costs of these tests will be paid by Contractor in accordance with Section 01 29 83 - Payment Procedures for Testing Laboratory Services and Section 01 45 00 - Quality Control.
- 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 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.
- .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.
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3.6 PROTECTION

- .1 Protect and or transplant existing trees, landscaping, natural features, bench marks, buildings, pavement, surface or underground utility lines which 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.