

Part 1 General

1.1 REGULATIONS

- .1 Shore and brace excavations, protect slopes and banks and perform all work in accordance with Federal, Provincial and Municipal regulations whichever is more stringent.

1.2 BURIED SERVICES

- .1 Before commencing work verify and establish the location of all buried services on and adjacent to the site.
- .2 Arrange with appropriate authority for relocation of buried services that interfere with execution of work. Pay costs of relocating services.

1.3 PROTECTION

- .1 Keep excavations clean, free of standing water, and loose soil.
- .2 Protect buried services that are required to remain undisturbed.

Part 2 Products

2.1 BACKFILL MATERIALS

- .1 Graded granular material 25 mm minus (base gravel).
- .2 Backfill materials shall be tested by a certified laboratory to verify that they meet analytical requirements listed in the specification.
- .3 Departmental Representative to approve backfill materials to be used, within 2 weeks prior to start of backfilling activities.

Part 3 Execution

3.1 SITE PREPARATION

- .1 Remove obstructions, from surfaces to be excavated within limits indicated.

3.2 CLEARING AND GRUBBING

- .1 Dispose of cleared and grubbed material to disposal areas acceptable to authority having jurisdiction and / or owner.

3.3 STOCKPILING

- .1 Stockpile fill materials in areas designated by Departmental Representative.

- .1 Stockpile granular materials in manner to prevent segregation.
- .2 Protect fill materials from contamination.

3.4 EXCAVATION

- .1 Topsoil stripping:
 - .1 Strip topsoil to depths as directed by Departmental Representative. Avoid mixing topsoil with subsoil.
 - .2 Strip topsoil over areas to be covered by new construction, over areas where grade changes are required, and so that excavated material may be stockpiled without covering topsoil.
 - .3 Stockpile in locations as directed by Departmental Representative.
- .2 Excavate as required to carry out work. Do not disturb soil or rock below bearing surfaces. Notify Departmental Representative when excavations are complete.
- .3 Excavate for UST removal. In addition, remove all topsoil, organic matter, debris and other loose and harmful matter encountered at sub grade level.

3.5 BACKFILLING

- .1 Do not proceed with backfilling at UST removal sites until completion of following:
 - .1 Confirmatory soil sampling results meet applicable CCME standards, as directed by Department Representative.
- .2 Compaction of granular base: compact existing sub grade under walks, paving, and slabs on grade, to same compaction as specified for fill. Fill excavated areas with gravel compacted as specified for fill.
- .3 Placing:
 - .1 Place backfill, fill and base course material in 300 mm lifts. Add water as required to achieve specified density.
 - .2 Match the final grade with the existing grade.
- .4 Compaction: compact each layer of material 98% SPMDD.

3.6 GRADING

- .1 Reinststate the site with gravel, stripped top soil and any confirmed clean excavated materials. Minimal amount of excess gravel to be placed on top of backfilled area following compaction. Match the final grade with the existing grade.
- .2 Grade so that water will drain away from buildings, walls and paved areas.

END OF SECTION