

PART 1 - GENERAL

1.1 Definitions

- .1 Topsoil: material capable of supporting good vegetative growth and suitable for use in top dressing, landscaping and seeding.
- .2 Waste material: material unsuitable for use in embankment or surplus to requirements.
- .3 Borrow material: Rock Borrow material obtained from areas off site required for construction of embankments or for other portions of work.
- .4 Embankment: Rock Borrow.
- .5 Pavement structure: combination of layers of unbound or stabilized granular sub-base, base, and asphalt or concrete surfacing.
- .6 Subgrade elevation: elevation immediately below pavement structure.

1.2 Traffic Provisions

- .1 Provide and maintain roadways, walkways and detours, for vehicular and pedestrian traffic and access to fire hydrants, alarms and emergency telephones.

PART 2 - PRODUCTS

2.1 Materials

- .1 Embankment materials to approval of Departmental Representative.
- .2 Material used for embankment not to contain organic matter, frozen lumps, weeds, sod, roots, logs, stumps, boulders larger than 150 mm or any other unsuitable material.
- .3 Rock Borrow material: Obtain from sources off site and to Departmental Representative's acceptance.
- .4 Rip Rap: to Section 31 37 00.

PART 3 - EXECUTION

3.1 Compaction
Equipment

.1 Compaction equipment must be capable of obtaining required densities in materials on project.

3.2 Water
Distributors

.1 Apply water with equipment capable of uniform distribution.

3.3 Embankments

- .1 Remove topsoil and rootmat.
- .2 Pulverize existing pavement to sub-grade elevation, as directed.
- .3 Do not place material which is frozen nor place material on frozen surfaces.
- .4 Maintain a crowned surface during construction to ensure ready runoff of surface water. Do not place material in free standing water.
- .5 With material containing less than 25% by volume of stone or rock fragments larger than 100 mm:
 - .1 Place and compact to full width in uniform layers not exceeding 200 mm loose thickness. Departmental Representative may authorize thicker lifts if specified compaction can be achieved.
 - .2 Compact to a density of not less than 95% corrected maximum dry density in accordance with ASTM D698.
 - .3 Bring moisture content of soil to level required to achieve specified compaction. Add water or aerate as required.

3.4 Excavations

- .1 Remove topsoil and rootmat.
- .2 Excavate fill or bedrock to subgrade level.

3.5 Subgrade
Compaction

- .1 After grading has been completed, scarify and mix subgrade surface to required depth of subgrade compaction.
- .2 Remove unsuitable materials found during work. Replace with material approved by Departmental Representative
- .3 Bring moisture content of soil to level required to achieve specified compaction. Add water or aerate as required.

3.6 Finishing
and Tolerances

- .1 Shape and compact surfaces to within 30 mm of design elevations but not uniformly high or low.
- .2 Do scarifying, grading, compacting or other methods of work as necessary to provide thoroughly compacted roadbed shaped to grades and cross sections as indicated or as directed by Departmental Representative.
- .3 Finish edges and slopes of common material to neat condition, true to line and grade.
 - .1 Remove isolated boulders exposed in cut slopes and fill resulting cavities.
 - .2 Hand finish slopes that cannot be finished satisfactorily by machine.

3.7 Maintenance

- .1 Maintain finished surfaces in condition conforming to this section until acceptance.