



## **3010 - SPECIFICATION FOR SUBGRADE PREPARATION AND COMPACTION FOR GRADING**

### **3010 - 1 DESCRIPTION**

- 1.01 The work shall consist of mixing the Traffic Gravel Behind Construction into the top eight (8) to fifteen (15) centimetres of the subgrade, shaping and compacting the subgrade to the required grade, cross section, and density.

### **3010 - 2 MATERIALS**

- 2.01 Those materials present in the subgrade and Traffic Gravel Behind Construction are required for subgrade preparation.

### **3010 - 3 CONSTRUCTION**

- 3.01 The Contractor shall scarify and/or disc the subgrade surface to a depth of between eight (8) and fifteen (15) centimetres. A homogeneous mixture of Traffic Gravel Behind Construction and subgrade material shall be obtained by blading the scarified material into a uniform windrow(s) along the side(s) of the subgrade surface.
- 3.02 The windrowed material shall be relaid on the subgrade surface and compacted with a steel footed type roller. The final lift of windrowed material relaid on the subgrade surface shall not be less than three (3) centimetres in thickness.
- 3.03 If the moisture existing in the soil is insufficient for compacting to the specified density and for finishing, the Contractor may elect to add water. The water shall be added in accordance with the Specification for Watering (Specification 2500).
- 3.04 The final top fifteen (15) centimetres of the subgrade shall be dried to at least two (2) percent below optimum moisture content as determined by Test 9200, at no direct expense to the Department.
- 3.05 Final compaction of the subgrade surface shall be done with pneumatic-tired rollers. Rolling shall be continued until all loose soil is properly compacted to a tight and smooth surface free of compaction planes, true to grade and cross section, and free from irregularities caused by compaction equipment.
- 3.06 The final top fifteen (15) centimetre layer of the subgrade shall be compacted to not less than one hundred (100) percent of the maximum density, as determined by the Test 9200, for the material comprising the layer.
- 3.07 The Engineer will determine, from the test results, the section of the road to be considered for evaluation. The density on this section will be considered satisfactory when:
  - (a) Test results average not less than one hundred (100) percent of maximum density, and;
  - (b) All individual test results are greater than ninety-eight (98) percent of maximum density.

#### **3010 - 4 MEASUREMENT**

- 4.01 Subgrade Preparation and Compaction For Grading will be measured in square metres. The width of the top surface of the subgrade designated in the special provisions or by the Engineer will be the basis of measurement.

#### **3010 - 5 PAYMENT**

- 5.01 Payment for SUBGRADE PREPARATION AND COMPACTION FOR GRADING will be at the contract unit price per square metre. The unit price will be full compensation for scarifying, discing, blading, mixing, windrowing spreading, shaping, trimming, compacting, drying, final rolling, and finishing the subgrade to the required grade, cross section, and density.
- 5.02 Payment for watering on the road will be in accordance with the requirements for Watering (Specification 2500).