

1.0 GENERAL

1.1 Scope

1.1.1 The work shall consist of the grading and gravelling of roads and lanes. The material shall consist of natural aggregate/reclaimed asphalt/granular material or recycled granular material such as reclaimed asphalt and concrete.

1.2 Related Sections

1.2.1 Section 02110 – Excavation

1.2.2 Section 02120 – Embankments

1.2.3 Section 02130 – Subgrade Preparation

2.0 PRODUCTS

2.1 Granular Material

2.1.1 When tested for particle size distribution according to CSA A23.1, CSA A23.2-1A, 2A, 5A, or A.S.T.M. designation C136, the material shall meet the following gradation:

SIEVE DESIGNATION	PERCENT PASSING BY WEIGHT
20 mm	100
12.5 mm	70 -85
5 mm	50 – 70
2 mm	30 - 55
400 µm	13 - 30
80 µm	6-13

2.1.2 Of the particles retained on the plus 5 mm sieves at least 40% by weight shall have one or more fractured face.

2.1.3 The percentage passing the designated sieve sizes for any representative sample, when plotted on a semi-log grading chart, shall show a free flowing concave curve without sharp dips or humps.

3.0 EXECUTION

3.1 Construction

3.1.1 Construction of the roadway shall be completed in accordance with Section 2100 for Excavation and Section 2120 for Embankments and shall be completed and trimmed, so as to conform to the proper grades and lines with tolerances of ± 20 mm vertically and ± 100 mm horizontally. The average level of the finished grade shall neither be consistently high or low from design grade.

3.1.2 Prepare subgrade in accordance with Section 2130 – Subgrade Preparation.

3.1.3 Place roadway gravel to the specified width and depth as indicated on the plans or as directed by the Engineer.

3.2 Materials Testing Requirement for Quality Control

3.2.1 A sample shall be taken every 500 tonnes and at least one per day to confirm gradation according to ASTM D698.