

## **PART 1    GENERAL**

### **1.1    Related Work**

- .1    Section 02311 - Site Grading

### **1.2    Measurement for Payment**

- .1    Crushed stone paving will be measured as noted in the contract unit price schedule, including all excavation, base preparation, geotextiles, compaction and other incidentals required to complete the installation as shown on the drawings and details.

### **1.3    References**

- .1    Current American Society for Testing and Materials (ASTM)
  - .1    Current ASTM C 136, Method for Sieve Analysis of Fine and Coarse Aggregates.
  - .2    Current ASTM C 117, Test Method for Material Finer Than 0.075 mm (No. 200) Sieve in Mineral Aggregates by Washing.
  - .3    ASTM E 11, Specification for Wire - Cloth Sieves for Testing Purposes.
  - .4    Current ASTM D 4318, Test Method for Liquid Limit, Plastic Limit and Plasticity Index of Soils.
  - .5    Current ASTM D 698, Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures, Using 5.5 lb. (2.49-kg) Rammer and 12-in (304.8-mm) Drop.
- .2    Current Canadian General Standards Board (CGSB)
  - .1    Current CAN/CGSB-8.1, Sieves, Testing, Woven Wire, Inch Series.
  - .2    Current CAN/CGSB-8.2, Sieves, Testing, Woven Wire, Metric.

### **1.4    Protection**

- .1    Prevent damage to buildings, landscaping, curbs, sidewalks, trees, fences, roads and adjacent property. Make good any damage.

### **1.5    Delivery, Storage and Handling**

- .1 Deliver, store and handle materials in accordance with Section 01610 - Basic Product Requirements.
- .2 Separate and recycle waste materials in accordance with local regulations.

## **1.6 Testing**

- .1 It is the responsibility of the Contractor to contact the testing laboratory for tests and to give them timely notice. Include all testing in the price of this work.
- .2 If any test does not meet the specifications, it will be the Contractor's responsibility to remedy the work and pay for all subsequent testing necessary to achieve the specified results.
- .3 Testing to be conducted for this section of work is as follows:
  - a) sieve designation of specified aggregate
  - b) compaction to be minimum 98% Standard Proctor Density

## **PART 2 PRODUCTS**

### **2.1 Materials**

- .1 Crushed Stone Paving materials to conform to applicable detail :  
  
**LIMESTONE SCREENINGS TRAIL SURFACING  
CONCRETE EDGE AND RAMP FOR PLAY EQUIPMENT AREA**
- .2 Granular sub-base:
  - .1 Crushed, pit run or screened stone, gravel or sand consisting of hard durable particles free from clay lumps, cementation, organic material, frozen material and other deleterious materials.
  - .2 Gradations: within limits specified when tested to current ASTM C 136 and ASTM C 117. Sieve sizes to current CAN/CGSB-8.1 rather than ASTM E 11.
- .3 Table

Sieve Designation	% Passing
75 mm	100
4.75 mm	25-85
0.425 mm	5-30
0.075 mm	0-10

**.3 Granular paving**

- .1 Crushed stone or gravel: hard, durable, angular particles, free from clay lumps, cementation, organic material, frozen material and other deleterious materials.
- .2 Gradations: within limits specified when tested to current ASTM C 136 and ASTM C 117. Sieve sizes to current CAN/CGSB-8.1 rather than ASTM E 11.
- .3 Table

Sieve Designation	% Passing
19 mm	100
12.5 mm	70-100
4.75 mm	40-70
2.00 mm	23-50
0.425 mm	7-25
0.075 mm	3-8

- .4 Liquid Limit current ASTM D 4318 Maximum 25
- .5 Plasticity Index current ASTM D 4318 Maximum 6

**.4 Granular topping:**

- .1 Screenings: hard, durable, crushed stone particles, free from clay lumps, cementation, organic material, frozen material and other deleterious materials.
- .2 Gradations: within limits specified when tested to current ASTM C 136 and ASTM C 117.

Sieve Designation	% Passing
9.5 mm	100
4.75 mm	50-100
2.00 mm	30-65

0.425 mm	10-30
0.075 mm	10-20

### **PART 3    EXECUTION**

#### **3.1    Subgrade**

- .1    Ensure that subgrade preparation conforms to levels and compaction required to allow for installation of granular base.

#### **3.2    Granular Sub-base**

- .1    Granular sub-base material minimum thickness: as indicated.
- .2    Place in layer of 150 mm compacted thickness. Compact layer to 98% Standard Density in accordance with current ASTM D 698.

#### **3.3    Granular Paving**

- .1    Granular base material minimum thickness: as indicated.
- .2    Spread and compact granular base material in uniform layers not exceeding 150 mm compacted thickness.
- .3    Compact to a density of not less than 98% Standard Density in accordance with current ASTM D 698.

#### **3.4    Granular Topping**

- .1    Place granular topping to compacted thickness as indicated.
- .2    Place in layer of 50 mm compacted thickness. Compact layer to 98% Standard Density in accordance with current ASTM D 698.

**END OF SECTION**