

New Marginal Wharf**Newellton****Shelburne County, N.S.****Project No. R.064747.001**

Granular Base & Corestone

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PART 1 - GENERAL

- 1.1 Related Work .1 Refer to other Specification Sections for related information.
- 1.2 Reference Standards .1 ASTM D698-91 (or latest edition) Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft) - Method C.
- 1.3 Measurement for Payment .1 Granular base (Gravel) and corestone will be measured in accordance with **Section 01 29 00**.

PART 2 - PRODUCTS

- 2.1 Rock Materials: .1 All rock materials to be tested and approved by the *Engineer* prior to installation in the work.
- .2 All rock materials to be free from cracks, seams and other defects which may impair durability.
- 2.2 Corestone .1 Corestone Specific Gravity minimum 2.65 and absorption maximum 2.0%. The following materials will not be acceptable for use as filter or armour stone: Slate, Siltstone, Sandstone, Shale, Conglomerate, and Mudstone.
- Actual specific gravity and absorption will be determined by testing selected samples of material being incorporated into the works. Materials with a specific gravity less than the specified minimum or an absorption rate in excess of the specified maximum will be rejected.
- .2 Corestone to be quarried material rough and angular in shape requiring approval by the *Engineer* prior to being used in the work. Material not to contain organic matter, frozen lumps, sod, roots, logs, stumps or any other objectionable matter.
- .3 Corestone gradation shall be within the following limits:

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IMPERIAL SIZE	METRIC SIZE	% PASSING BY MASS
18"	450 mm	100
8"	200 mm	44 - 75
4"	100 mm	25 - 50
2"	50 mm	7 - 14

.1 Materials

.1 Granular Base: Material to **Section 31 05 17** and following requirements:

.1 Crushed stone or pit run gravel consisting of hard, durable, angular particles, free from clay lumps, cementation, organic material, frozen material and other deleterious materials.

.2 Type 2 (Class "C") granular base gradation will be within following limits:

ASTM SIEVE SIZE	% PASSING BY MASS
56 mm	100
28 mm	60 - 80
5 mm	25 - 45
0.160 mm	0 - 10

PART 3 - EXECUTION

3.1 Inspection of Underlying Sub-Base

.1 Do not place granular base until finished sub-base surface is inspected and approved by *Engineer*.

3.2 Placing

.1 Place material only on a clean unfrozen surface, properly shaped and compacted and free from snow and ice.

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- .2 Place using methods which do not lead to segregation or degradation of aggregates.
 - .3 Place material to full width in a uniform layer to mm compacted thickness.
 - .4 Shape each layer to a smooth contour and compact to specified density before succeeding layer is placed.
- 3.3 Compacting
- .1 Compact granular base to density not less than 98% maximum dry density in accordance with ASTM D698.
 - .2 Shape and roll alternately to obtain a smooth, even and uniformly compacted base.
 - .3 Apply water as necessary during compacting to obtain specified density. If material is excessively moist, aerate by scarifying with suitable equipment until moisture content is corrected.
 - .4 In areas not accessible to rolling equipment, compact to specified density with approved mechanical tampers.
- 3.4 Finish Tolerances
- .1 Finished base surface shall be within plus or minus 10 mm of established grade but not uniformly high or low.
 - .2 Correct surface irregularities by loosening and adding or removing material until surface is within specified tolerance.
- 3.5 Maintenance
- .1 Maintain finished base in a condition conforming to this section until succeeding material is applied or until acceptance.