

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

Granular Base & Corestone

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PART 1 - GENERAL

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

PART 2 - PRODUCTS

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| 2.1 | <u>Rock Materials:</u> | .1 | All rock materials to be tested and approved by the <i>Engineer</i> 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 | <u>Corestone</u> | .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 <i>Engineer</i> 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 | <u>Compacting</u> | |
| | .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 | <u>Finish
Tolerances</u> | |
| | .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 | <u>Maintenance</u> | |
| | .1 | Maintain finished base in a condition conforming to this section until succeeding material is applied or until acceptance. |