

PART 1 - GENERAL

- 1.1 RELATED SECTIONS .1 Section 310516 – Aggregate Materials
- 1.2 REFERENCES .1 American Society for Testing and Materials (ASTM)
- .1 ASTM C 117-95, Standard Test Methods for Material Finer Than 0.075 mm Sieve in Mineral Aggregates by Washing.
 - .2 ASTM C 131-96, Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.
 - .3 ASTM C 136-96a, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - .4 ASTM D 698-00a, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400ft-lbf/ft³) (600kN-m/m³).
 - .5 ASTM D 1557-00, Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000ft-lbf/ft³) (2,700kN-m/m³).
 - .6 ASTM D 1883-99, Standard Test Method for CBR (California Bearing Ratio) of Laboratory Compacted Soils.
 - .7 ASTM D 4318-00, Standard Test Methods for Liquid Limit, Plastic Limit and Plasticity Index of Soils.
- .2 Canadian General Standards Board (CGSB)
- .1 CAN/CGSB-8.1-88, Sieves, Testing, Woven Wire, Inch Series.
 - .2 CAN/CGSB-8.2-M88, Sieves, Testing, Woven Wire, Metric.
- 1.3 DELIVERY, STORAGE AND HANDLING .1 Deliver and stockpile aggregates in accordance with Section 310516 - Aggregate Materials.
- 1.4 WASTE MANAGEMENT AND DISPOSAL .1 Separate and recycle waste materials in accordance with Section 017419 - Construction/Demolition Waste Management And Disposal.
- .2 Divert unused granular material from landfill to local quarry as approved by Departmental Representative.
- 1.5 BASIS OF PAYMENT .1 Item No. C-009: Supply and Place Granular “A” Base - Supply and placement of Granular “A” base material will be measured for payment in tonnes of material actually incorporated into the construction of the roadways, parking lots, concrete curbs and sidewalks / pathways and accepted by the Departmental Representative. The unit price bid will be full compensation for the supply, delivery, placement, shaping, compaction, watering, dust control, and all associated works.

PART 2 - PRODUCTS

- 2.1 MATERIALS .1 Granular base: material in accordance with Section 310516 - Aggregate Materials and following requirements:
- .1 Crushed stone or gravel to OPSS Granular A specifications.
 - .2 Gradations to be within OPSS limits.

PART 3 - EXECUTION

- 3.1 SEQUENCE OF OPERATION .1 Place granular base after sub-base surface is inspected and approved by Departmental Representative.
- .2 Placing
- .1 Construct granular base to depth and grade in areas indicated.
- .2 Ensure no frozen material is placed.
- .3 Place material only on clean unfrozen surface, free from snow and ice.
- .4 For spreading and shaping material, use spreader boxes having adjustable templates or screeds which will place material in uniform layers of required thickness.
- .5 Place material to full width in uniform layers not exceeding 150 mm compacted thickness. Departmental Representative may authorize thicker lifts (layers) if specified compaction can be achieved.
- .6 Shape each layer to smooth contour and compact to specified density before succeeding layer is placed.
- .7 Remove and replace that portion of layer in which material becomes segregated during spreading.
- .3 Compaction Equipment
- .1 Compaction equipment to be capable of obtaining required material densities.
- .4 Compacting
- .1 Compact to density not less than 100% maximum dry density in accordance with ASTM D 698 / ASTM D 1557.
- .2 Shape and roll alternately to obtain smooth, even and uniformly compacted base.
- .3 Apply water as necessary during compacting to obtain specified density.
- .4 In areas not accessible to rolling equipment, compact to specified density with mechanical tampers approved by Departmental Representative.
- .5 Correct surface irregularities by loosening and adding or removing material until surface is within specified tolerance.
- 3.2 SITE TOLERANCES .1 Finished base surface to be within plus or minus 10 mm of established grade and cross section but not uniformly high or low.
- 3.3 PROTECTION .1 Maintain finished base in condition conforming to this Section until succeeding material is applied or until acceptance by Departmental Representative.

***** END OF SECTION *****