

G – GRAVEL MATERIALS

G-1 DESCRIPTION

The work covered by this section includes furnishing all materials, labor, and equipment necessary to construct the crushed gravel bases, subbases/cushions, and surfacing as shown on the Drawings and as directed by the Engineer.

G-2 MATERIALS

G-2.1 General

The gravel materials shall meet the requirements of the South Dakota Department of Transportation Standard Specifications Sections 882 and other SDDOT section(s) by reference. The gravel materials shall meet the requirements outlined in the above referenced section for Aggregate Base Course including crushing requirements.

The above materials shall not be accepted until adequate and complete tests are accomplished and test results are provided to the satisfaction of the Engineer to verify compliance with the above requirements.

G-3 CONSTRUCTION METHODS

Before gravel materials are placed the roadway subgrade shall be shaped to the cross-section shown in the Drawings. Gravel materials shall be placed in lifts/courses not to exceed a compacted layer of four (4) inches thick.

Water shall be added to the gravel materials to obtain proper compaction and shall be accomplished during the spreading operation so as the moisture content is approximately at the optimum moisture content of the material. Rolling shall proceed simultaneously with the spreading and watering operations. Each layer shall be compacted to at least ninety-five (97) percent maximum dry density in accordance with ASTM D698.

When included as a part of bid items, the Contractor shall secure the services of an independent testing agency to assure that field density measured in accordance with ASTM D1556 or ASTM D2922 to assure proper compaction. One field density shall be accomplished per lift per each 400 feet. This test frequency may be reduced at the discretion of the Engineer. Reduction in or increase in the number of tests shall not be cause for adjustment in unit prices for testing.

When the testing agency reports that base course is below specified density, the Contractor shall scarify and moisten or aerate, or remove and replace base course material to the depth required, recompact and retest until required density is obtained. All costs for reworking and retesting materials in areas of failed tests shall be the

responsibility of the Contractor. Copies of all tests shall be provided to the Engineer. The Contractor shall not proceed until test results for previously completed work verify compliance with requirements.

Lack of strict adherence to this section may result in withholding of payment, including but not limited to, the cost of testing but may also cause for further reduction in payment due to Contractor as determined by the Engineer.

G-4 MEASUREMENT AND PAYMENT

Gravel materials will be measured to the nearest one-tenth (0.1) ton. The accepted quantities of gravel materials will be paid for at the contract price per ton under the respective big item for "BASE COURSE".