**SECTION 310**

**AGGREGATE SURFACE**

**310.1 Description.** This work shall consist of furnishing and placing chat, gravel or crushed stone surfacing in the quantity shown in the contract document or as directed by the engineer.

**310.2 Material.** All material shall be in accordance with Division 1000, Material Details, and specifically Sec 1006. The type and gradation of the surfacing material to be used will be specified in the contract.

**310.3 Construction Requirements.**

**310.3.1 General.** The contractor shall furnish, haul and spread surfacing material on the subgrade at the designated rate. The rate of application may be varied at the discretion of the engineer, depending on the nature of the soil encountered in the subgrade. The contractor shall uniformly unload and distribute the required quantity of material throughout each station. The subgrade shall be prepared as specified in Sec 209, and any work done in reshaping the subgrade before placing surfacing material shall be at the contractor's expense. When it is determined by the engineer to be to the Commission's advantage, hauling may be done over surfacing material previously spread, otherwise, all hauling shall be over the subgrade.

**310.3.2 Surface Requirements.** Material shall be spread to a uniform thickness over the subgrade and shaped as shown on the plans until the surface is free from ruts and waves. The surface shall be compacted under traffic. Maintenance of the surface shall continue until final project acceptance is made.

**310.3.3 Stockpiles.** Material shall be stockpiled at locations approved by the engineer, and in the approximate quantity shown on the contract.

**310.3.4 Salvage.** Designated areas shall be scarified to the full depth of the existing surfacing and such material pulverized to a maximum size of approximately 2 inches. Uncontaminated material shall be removed from the roadbed and placed in stockpiles or spread at locations approved by the engineer. Salvaged surfacing material shall be maintained as free as practical of dirt, vegetation or other objectionable material. Salvaging shall not be performed unless approved by the engineer.

**310.4. Vehicle Scales.** Vehicle scales shall be in accordance with Sec 109.

**310.4 Quality Control.** The contractor shall control and monitor the quality of the work. No QC plan shall be required for aggregate surfacing work. QC for quantity less than 500 tons shall be governed by Sec 1006.

**310.4.1 Gradation.** The gradation shall be determined and meet the requirements of Sec 1006.

**310.4.2 Deleterious.** The deleterious content of the material shall be determined and meet the requirements of Sec 1006.

**310.4.3 Durability.** The durability of the material shall be determined and meet the requirements of Sec 1006.

**310.5 Quality Assurance.** The engineer or designated representative will be responsible for monitoring the work and quality control efforts of the contractor. Results of QA testing will be furnished to the contractor within 24 hours of testing be completed.

**310.5.1 Independent QA Samples.** Unless otherwise stated, a favorable comparison shall be obtained when independent QA samples meet the same specification criteria as QC.

**310.5.2 Split QA Samples.** No split samples are called for in Sec 310.

**310.6 QC/QA Frequency Table.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Property** | **QC Frequency** | **QA Frequency** | |
| **Independent Samples** | **Split Samples** |
| Gradation | 1 per 2000 tons | 1 per Project | - |
| Deleterious |
| Durability | 1 per Material | - |

**310.7 Method of Measurement.**

**310.7.1 Measurement by Volume.** Stockpiles of salvaged surfacing material may be measured by the average end area method.

**310.7.2 Measurement of Aggregate Surfacing by Area.** Final measurement of the completed aggregate surface will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity. Where required, measurement of aggregate surface, complete in place, will be made to the nearest square yard. The revision or correction will be computed and added to or deducted from the contract quantity.

**310.7.3 Measurement by Weight.** Measurement will be made by weighing each truck load on scales in accordance with Sec 109. Deductions will be made for any moisture in excess of 2.0 percent of the dry weight of the material. After deduction for excess moisture has been made, measurement will be made to the nearest ton for the total tonnage of material accepted.

**310.8 Basis of Payment.** The accepted quantities of aggregate surface will be paid for at the contract unit price.