

301-R-688 AGGREGATE BASE

(Revised 07-16-20)

The Standard Specifications are revised as follows:

SECTION 301, BEGIN LINE 1, DELETE AND INSERT AS FOLLOWS:

**SECTION 301 – AGGREGATE BASE**

**301.01 Description**

This work shall consist of placing coarse aggregate on a prepared subgrade in accordance with 105.03.

**MATERIALS**

**301.02 Materials**

Materials shall be in accordance with the following:

- Coarse Aggregate, Class D or Higher .....904
- ~~Geotextile~~Geosynthetic Materials.....918.02

*ACBF shall not be used for subgrade treatment Types ID, IV, and IVA.*

**CONSTRUCTION REQUIREMENTS**

**301.03 Preparation of Subgrade**

Subgrade shall be ~~compacted~~*prepared* in accordance with 207.04. ~~In areas of 500 ft or less in length, or for temporary runarounds, proofrolling will not be required.~~ Proofrolling will not be required in trench sections *and other areas* where proofrolling equipment cannot be used.

**301.04 Temperature Limitations**

Aggregate shall not be placed when the air temperature is less than 35°F. Aggregate shall not be placed on a frozen subgrade. Frozen aggregate shall not be placed.

**301.05 Spreading**

The moisture content of ~~dense graded~~*the* aggregate shall be between 4% and the optimum moisture content ~~prior to placement~~ when the aggregate is delivered to the project. Unless otherwise directed, water shall not be added to the aggregate on the grade. The aggregate shall be spread in uniform lifts with a spreading and leveling device approved by the Engineer. The spreading and leveling device shall be capable of placing aggregate to the depth, width, and slope specified. The compacted depth of each lift shall be a minimum of 3 in. and a maximum of 6 in. The aggregate shall be handled and transported to minimize segregation and the loss of moisture. In areas inaccessible to mechanical equipment, *each lift shall be 3 in. and an approved hand spreading methods* may be used.

**301.06 Compacting**

Dense graded aggregate shall be compacted to achieve the ~~maximum~~ allowable *average* deflection as determined with ~~the Light Weight Deflectometer, LWD;~~ testing in

~~accordance with ITM 508203.24(b). Compaction shall not occur if the moisture content of the aggregate is greater than 6.0%. The maximum allowable deflection will be determined from a test section or will be specified. Test sections shall be constructed in accordance with ITM 514 for other materials not included in Table 1 to determine the maximum allowable deflection. The optimum moisture content will be determined in accordance with 203.24(a).~~

~~Samples for moisture content testing shall be taken on the grade from the first truck of the day. The frequency of the moisture content test for aggregates will be one test for each day of aggregate placement. The maximum allowable average deflection for aggregate over the chemically modified soils and untreated soils shall be in accordance with the following: Tables shown in 203.24(b).~~

Material Type	Maximum Allowable Deflection (mm)
Aggregate over Lime Modified Soil	0.30
Aggregate over Cement Modified Soil	0.27

Table 1

~~Acceptance of the compaction of aggregates will be determined by averaging three LWD tests obtained at a random station determined in accordance with ITM 802. The location of the three tests will be at 2 ft from each edge of the construction area and at 1/2 of the width of the construction area. The average deflection shall be equal to or less than the maximum allowable deflection allowed in Table 1 or determined by the test section. The frequency of the LWD testing will be three tests for each 800 t for compacted aggregate.~~

~~As an alternate, aggregates shall be compacted to a minimum of 100% of the maximum dry densities in accordance with AASHTO T 99. In situ density will be determined in accordance with 203.24(b). The aggregate shall meet the compaction requirements at the time subsequent courses are placed. In areas inaccessible to compaction equipment such as private drives, mailbox approaches, and temporary runarounds, the compaction requirements may be accepted by visual inspection.~~

*Coarse graded aggregates shall be compacted in accordance with 203.25.*

*In areas inaccessible to compaction equipment, such as private drives and mailbox approaches, the compaction requirements may be accepted by visual inspection.*

All displacement or rutting of the aggregate shall be repaired prior to placing subsequent material.

~~Coarse graded aggregates shall be compacted in accordance with 203.25. When specified, geotextiles shall be installed in accordance with 616.11.~~

**301.07 Checking and Correcting Base**

The top of each aggregate course shall be checked transversely to the cross section and all deviations in excess of 1/2 in. shall be corrected. If additional aggregate is required, the course shall be remixed and re-compacted.

**301.08 Priming**

A prime coat, when required, shall be in accordance with 405.

**301.09 Method of Measurement**

Compacted aggregate base will be measured by the cubic yard based on the theoretical volume to the neat line as shown on the plans. Geotextiles will be measured in accordance with 616.12.

**301.10 Basis of Payment**

The accepted quantities of compacted aggregate base will be paid for at the contract unit price per cubic yard, complete in place. Geotextiles will be paid for in accordance with 616.13.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit Symbol</b>
Compacted Aggregate, No. 2.....	CYS
Compacted Aggregate, No. 5.....	CYS
Compacted Aggregate, No. 8.....	CYS
Compacted Aggregate, No. 53.....	CYS

The cost of placing, compacting, water, aggregate placed outside neat lines as shown on the plans, and necessary incidentals shall be included in the cost of the pay item.

Payment will not be made for material placed outside of a 1:1 slope from the planned typical section.

Replacement of pavement damaged by the Contractor's operations shall be at no additional payment.

