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Section 302. AGGREGATE BASE COURSE

302.01. Description. This work consists of constructing an aggregate base course on a surface approved by the Engineer.

302.02. Materials. Provide materials in accordance with the following:

Dense-Graded Aggregate 21AA, 21A, 22A.....902

Provide aggregate meeting the aggregate series shown on the plans.

302.03. Construction.

A. Placing and Compacting. Provide a ticket with each load, stating the following information:

1. Project number,
2. Aggregate source,
3. Aggregate series,
4. Date,
5. Time,
6. Truck identifier number,
7. Supplier name, and
8. Type of aggregate approval.

If the contract requires payment by weight, ensure the ticket includes the gross weight, tare weight, and net weight to the nearest 100 pounds. Determine the truck tare weight at least twice daily.

If the contract does not require payment by weight, the Engineer may accept written documentation in lieu of tickets. Written documentation must identify the pay item of the material and include all information listed above except time and truck identifier number.

Provide and place aggregate with a uniform gradation, free of contamination and segregation. Do not place aggregate base on frozen, soft, unstable or rutted subgrade, subbase, or aggregate base. Do not rut or distort the subbase material or aggregate base during spreading.

The Contractor may use additives to facilitate compaction, shaping, and maintenance of the aggregate surface.

Compact the aggregate layers to a uniform thickness, no greater than 6 inches. Compact each layer of aggregate base to at least 98 percent of the maximum unit weight at a moisture content no greater than optimum for aggregate base under hot mix asphalt pavement. Compact each layer of aggregate base to at least 95 percent of the maximum unit weight at a moisture content no greater than optimum for aggregate base under concrete pavement.

Shape the finished surface and the layer thickness to within $\pm\frac{1}{2}$ inch of the crown and grade shown on the plans.

If placing aggregate base in a layer no greater than 3 inches, compact using pneumatic-tired rollers or vibratory compactors to at least 95 percent of the maximum unit weight at a moisture content no greater than optimum.

Remove, dispose of, and replace aggregate base material that mixes with subbase or subgrade material, at no additional cost to the Department.

B. Conditioning Aggregate Base. Shape the finished surface of the existing aggregate base course to within $\pm\frac{1}{2}$ in of the grade and cross section shown on the plans. Provide additional aggregate to address irregularities and obtain the required grade or cross section.

To correct surface irregularities or to add more material, mix the loose and compacted materials to at least 2 inches deep and recompact. Compact the aggregate base as specified in subsection 302.03.A.

C. Maintenance During Construction. Maintain the aggregate base course layer at the required line, grade, and cross section until placement of the next layer. Ensure the exposed aggregate base course layer remains smooth, compacted, and uncontaminated.

If the subgrade, subbase, or aggregate base is damaged due to the Contractor's operations or construction traffic, restore to the required condition at no additional cost to the Department.

302.04. Measurement and Payment.

Pay Item	Pay Unit
Aggregate Base	Ton
Aggregate Base, LM	Cubic Yard
Aggregate Base, __ inch	Square Yard
Aggregate Base, Conditioning	Station, Square Yard

A. Aggregate Base. The Engineer will determine the moisture content and pay weights in accordance with section 109.

The Engineer will measure **Aggregate Base** by the scale weight of the material, including admixtures, and moisture content no greater than 6 percent.

The Engineer will perform moisture tests at the start of weighing operations and if construction operations, weather conditions, or other causes may change the moisture content of the material. If tests indicate a moisture content greater than 6 percent, the Engineer will deduct the

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weight of the excess moisture from the scale weight of the aggregate until moisture tests indicate the moisture content is no greater than 6 percent.

B. **Aggregate Base, LM.** The Engineer will measure **Aggregate Base, LM** based on hauling unit dimensions and load count, before placement and compaction. The unit price for **Aggregate Base, LM** includes the cost of providing, hauling, placing, compacting, and shaping the material, and providing water for compaction.

C. **Aggregate Base, __ inch.** The Engineer will measure **Aggregate Base, __ inch** by width and length, for the specified depth, as shown on the plans.

D. **Aggregate Base, Conditioning.** If the contract requires payment for **Aggregate Base, Conditioning** in station pay units, the Engineer will measure along the construction centerline of the roadway.

If the contract requires payment for **Aggregate Base, Conditioning** in area pay units, the Engineer will measure by the width and length shown on the plans.

If the contract does not include the pay item **Aggregate Base, Conditioning**, the Department will consider the cost of conditioning aggregate base and providing additives and water for compaction and maintenance, to be included in other aggregate base pay items.