

Amend **Section 301 - Plant Mix Asphalt Concrete Base Course** to read as follows:

**"SECTION 301 - PLANT MIX ASPHALT CONCRETE BASE COURSE**

**301.01 Description.** This section is for furnishing and placing one or more courses of plant mix asphalt concrete base course (ACB) on a prepared subgrade according to the contract.

**301.02 Materials.**

**(A) General.** Materials shall conform to the following:

|  |        |
|--|--------|
| Asphalt Cement                                       | 702.01 |
| Aggregate for Plant Mix Asphalt Concrete Base Course | 703.03 |
| Filler   | 703.15 |
| Blending Sand  | 703.22 |
| Hydrated Lime  | 712.03 |

Submit for acceptance, a job-mix formula for the mixture to be supplied. This work shall not start and the Engineer will not accept the mixtures until:

- (1) the samples of the materials intended for use are submitted and
- (2) the Engineer establishes an asphalt content.

Submit the samples no less than 15 working days before the work begins.

**(B) Plant Mix Asphalt Concrete Base Course (ACB).** The ACB includes a mixture of aggregate, filler or blending sand or both if accepted, and bituminous material. The Contractor shall size, uniformly grade, and combine the several aggregate fractions in such proportions that the resulting mixture conforms to Subsection 703.03 - Aggregate for Plant Mix Asphalt Concrete Base Course. The resulting mixture shall be of optimum cohesion at an air void content of 3% to 6%. Also, the resulting mixture shall have a minimum stability of 37 when tested according to AASHTO T 246 (ASTM D 1560).

When requested by the Engineer, submit the supporting data for review. Base the tests on AASHTO T 245 (ASTM D 1559). The following table shows the design criteria:

| <b>TABLE 301-1 - JOB MIX FORMULA DESIGN CRITERIA</b> |                |                |
|--|----------------|----------------|
| Number of compaction blows each end of specimen: 75  |                |                |
| <b>Test Property</b>                                 | <b>Minimum</b> | <b>Maximum</b> |
| Stability, Pound                                     | 2,000          | ---            |
| Flow, 0.01 inch                                      | 8              | 16             |
| Percent Air Void                                     | 3              | 6              |
| Voids In Mineral Aggregate (VMA), %                  | 13             | ---            |

Add between 4% to 6% bituminous binder base on the dry weight of aggregate to the mixture as specified by the Engineer.

### **301.03 Construction Requirements.**

**(A) General.** Work in this section shall conform to Subsection 401.05 - Construction Requirements except as modified herein.

Brooming off shall conform to Section 310 - Brooming Off.

Apply the tack coat to the layers of the mixture for multiple lift construction. Tack coat shall conform to Section 407 - Bituminous Tack Coat.

The criteria on mat thickness shall be as follows:

- (1)** Spread and compact the mixture in one layer where the required thickness is 6 inches or less.
- (2)** Spread and compact the mixture in two or more layers of approximate equal thickness where the required thickness is more than 6 inches. The maximum compacted thickness of one layer shall not exceed 6 inches.

Compact the mixture immediately upon completion of spreading operations to a density of more than 91% of the maximum theoretical specific gravity according to AASHTO T 209 (ASTM D 2041) modified by deletion of Section 8 supplemental procedure. Tamp places not accessible to the roller with mechanical tampers.

The combined thickness of the ACB and the asphaltic concrete pavement shall be within 0.02 foot of the planned thickness.

Cut samples from the compacted pavement within 24 hours of lay down. The cut pavement samples shall be 12 inches by 12 inches or 4 inches diameter cores, minimum. Take samples of the mixture for the fulldepth at the location as specified by the Engineer. Place and compact new material to conform with the surrounding area after taking samples.

**(B) Plant Mix Asphalt Concrete Base Course (ACB).** When choosing to use a drier-drum mixing plant equipped with cold-feed control, separate the aggregate for the plant mix asphalt concrete base into three or more sizes.

**301.04 Method of Measurement.** The Engineer will measure ACB per ton under Section 312 - Plant Mix Glassphalt Concrete Base Course complete in place.

Weigh the quantity of ACB according to Section 109 - Measurement and Payment.

**301.05 Basis of Payment.** The Engineer will pay for the accepted ACB at the contract unit price per ton under Section 312 - Plant Mix Glassphalt Concrete Base Course complete in place. The price includes full compensation for furnishing, spreading, and compacting the ACB; sampling; restoring the area; and furnishing equipment, tools, labors, materials, and incidentals necessary to complete the work.

The Engineer will not pay for the bituminous tack coat separately. The Engineer will consider the price for the bituminous tack coat included in the bid price of the various contract items."

**END OF SECTION**