

SECTION 32 12 13
ASPHALT CONCRETE PAVING

PART 1 - GENERAL

1.1 DESCRIPTION

This work shall cover the composition, mixing, construction upon the prepared subgrade, and the protection of hot asphalt concrete pavement. The hot asphalt concrete pavement shall consist of an aggregate or asphalt base course and asphalt surface course constructed in conformity with the lines, grades, thickness, and cross sections as shown.

1.2 RELATED WORK

Subgrade Preparation: Section 31 20 11, EARTH MOVING.

1.3 INSPECTION OF PLANT AND EQUIPMENT

The Contracting Officer's Technical Representative shall have access at all times to all parts of the material producing plants for checking the mixing operations and materials and the adequacy of the equipment in use.

1.4 SUBMITTALS

In accordance with Section 01 33 23, SAMPLES AND SHOP DRAWINGS, furnish the following:

A. Data and Test Reports:

1. Low Strength Mortar Base Course: Sources, gradation, and other tests required by State Highway Department.
2. Asphalt Base/Surface Course: Aggregate source, gradation, soundness loss, percentage of wear, and other tests required by State Highway Department.
3. Job-mix formula.

B. Certifications:

1. Asphalt prime and tack coat material certificate of conformance to State Highway Department requirements.
2. Asphalt cement certificate of conformance to State Highway Department requirements.
3. Job-mix certification - Submit plant mix certification that mix equals or exceeds the State Highway Specification.

PART 2 - PRODUCTS

2.1 GENERAL

A. Low strength mortar base and asphalt concrete materials shall conform to the requirements of the following and other appropriate sections of the latest version of STANDARD SPECIFICATIONS, STATE OF TENNESSEE, DEPARTMENT OF TRANSPORTATION (TDOT), including amendments, addenda

and errata. Where the term "Engineer" or "Commission" is referenced in the State Highway Specifications, it shall mean the VA Contracting Officer's Technical Representative or VA Contracting Officer.

B. Low Strength Mortar Base:

1. Type TDOT Part-2 Base and Sub-grade Treatment

C. Asphalt Surface Concrete:

1. Type TDOT Part-3 Flexible Surfaces

PART 3 - EXECUTION

3.1 INSTALLATION

The Asphalt Concrete Paving equipment, weather limitations, job-mix formula, mixing, construction methods, compaction, finishing, tolerance, and protection shall conform to the requirements of the appropriate sections of the State Highway Specifications for the type of material specified.

3.2 SMOOTHNESS AND GRADE REQUIREMENTS

The surface course, upon completion of final rolling, shall be smooth, free of roller marks, and true to grade and cross section as shown. When tested with a 3-m (10 foot) straight edge, the surface shall not vary more than 5-mm (3/16-inch) in a longitudinal direction and not more than 6-mm (1/4-inch) in a traverse direction. No tolerances will be allowed which will pond water. Finished surfaces at juncture with other pavements shall coincide with finished surfaces of abutting pavements.

3.3 PATCHING

Remove and patch any areas of completed pavement that are defective or damaged by subsequent construction, freezing, rainfall, or other weather conditions with approved low strength mortar base and asphalt mixtures laid in accordance with these specifications, at no additional cost to the Government.

3.4 PROTECTION OF PAVEMENT

After final rolling, no vehicular traffic of any kind shall be permitted on the pavement until pavement has cooled and hardened, and in no case, in less than six hours.

3.5 FINAL CLEAN-UP

Remove all debris, rubbish, and excess material from the Station.

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