

complete in place.

**405.82 Payment Items.**

405. Gravel for Base Course Cubic Meter

**SECTION 420**

**CLASS I BITUMINOUS CONCRETE BASE COURSE, TYPE I-1**

**DESCRIPTION**

**420.20 General.**

This type of base course shall be composed of mineral aggregate, mineral filler and bituminous material. The base course shall be constructed in one or more courses as shown on the plans and as directed on the prepared or existing sub-base in accordance with these specifications and in close conformity with the lines, grades, compacted thickness, and typical cross section shown on the plans.

The Engineer may require the Contractor to remove and replace at his/her own expense, any defective mix not conforming to the specified job mix formula within the stipulated tolerances; on the basis of the Department testing. Samples of the actual mixture in use will be taken as many times daily as necessary and the mixtures shall be maintained uniform for the project as specified herein. The Engineer may suspend further approval for use of the Plant mixtures in Department work if the mixtures are not uniformly furnished as specified; until any necessary changes have been made so that the mixtures do conform to the specified requirements.

**420.21 Composition and Compaction Acceptance Tests.**

Where plant inspection is maintained, the material will be considered acceptable for use when the specified tests from samples obtained at the production plant indicate conformance to M3.11.09.

Pavement density shall be determined as outlined in M3.11.09.

The bituminous mixture and the labor for obtaining these samples in the field shall be furnished without charge by the Contractor. The samples shall be taken in accordance with AASHTO T 230.

**MATERIALS**

**420.40 General.**

Material shall meet the requirements specified in Section M3.11.00 of Division III, Materials, and the following Subsections:

Mineral Aggregate	M3.11.04
Mineral Filler	M3.11.05
Bituminous Materials	M3.11.06
Composition of Base Course Mixture (see Table "A")	M3.11.02.

**CONSTRUCTION METHODS**

**420.60 General.**

The bituminous concrete base course shall be constructed in accordance with relevant provisions of Section 460 for Class I Bituminous Concrete Pavement, Type I-1.

The equipment for spreading and finishing shall be mechanical, self-powered pavers, capable of spreading and finishing the mixture true to line, grade, width, and crown by means of fully automated controls for both longitudinal and transverse slope. The use of any other type of equipment for spreading and finishing shall require the prior written approval of the Engineer.

### COMPENSATION

#### 420.80 Method of Measurement.

Bituminous concrete shall be measured by the metric ton and shall be the actual and verified tonnage, complete in place and approved. The quantity shall be determined only by weight slips that have been properly countersigned by the Engineer at the time of delivery.

Bitumen used for prime coat, if required by plans or specifications or ordered by the Engineer, will be measured as specified in Subsection 468.80.

#### 420.81 Basis of Payment.

The bituminous concrete, determined as provided above, will be paid for at the contract unit price per metric ton of the kind of bituminous concrete required, complete in place.

Bitumen as specified herein to be paid for as prime coat, if required, will be paid for at the contract unit price per liter under the item for Bitumen for Prime Coat, complete in place.

#### 420.82 Payment Items.

420.	Class I Bituminous Concrete Base Course, Type I-1	Metric Ton
463.	Bitumen for Prime Coat	Liter

## SECTION 430

### CEMENT CONCRETE BASE COURSE

#### DESCRIPTION

#### 430.20 General.

Cement concrete base course shall be constructed in one course on the prepared sub-base in accordance with these specifications and in close conformity with the lines and grades shown on the plans or established by the Engineer.

#### MATERIALS

#### 430.40 General.

Materials shall meet the requirements specified in the following Subsections of Division III, Materials:

20 MPa - 40 mm - 280 kg Cement Concrete*	M4.02.00
Preformed Joint Filler	M9.14.0
Hot Poured Joint Sealer	M3.05.0

\*The concrete shall have a slump of 50 millimeters with a tolerance of plus or minus 13 millimeters.

#### CONSTRUCTION METHODS