

**ITEM 448 ASPHALT CONCRETE****448.01 Description****448.02 JMF Field Adjustments****448.03 Density****448.04 Small Quantity Asphalt Concrete Testing and Acceptance****448.05 Reports****448.06 Acceptance****448.07 Basis of Payment**

**448.01 Description.** This work consists of constructing a surface course or an intermediate course of aggregate and asphalt binder mixed in a central plant and spread and compacted on a prepared surface. The City will determine acceptance of the mixture by Lot, based on the composition of random samples taken and tested by the Contractor and verified by the City.

The requirements of Item 441 apply, except as modified by this specification.

**448.02 JMF Field Adjustments.** Determine the need for any JMF gradation adjustments, provided for in 441.05, from the results of quality control and City verification tests of the first two acceptance Lots. Following adjustment, the City will apply the adjusted JMF, for acceptance purposes, to the entire production including the first two Lots. Give the Engineer written notice of JMF adjustments no later than the end of the first workday following the notification of verification test results of the second acceptance Lot.

For projects with less than two acceptance Lots or for any JMF that will no longer be used on a project, give the Engineer written notice of any JMF gradation adjustments within 1 workday following the notification of acceptance test results.

**448.03 Density.** Conduct density gauge quality control testing on the asphalt mat according to City Supplement 1055. Conduct density gauge testing on uniform courses of 1.0 in (25mm) or more plan thickness.

When City Supplement 1055 density gauge testing is required, the requirements of 401.16, except the last four paragraphs, are waived. The requirements of 401.13 do not apply. However, rollers must fully and satisfactorily provide the required compaction, be mechanically sound, and meet Hot Mix Asphalt industry standards. The City retains the right to reject the use of rollers which are not in good repair, or are not designed to do the work required. A three-wheel roller per 401.17 is not required.

**448.04 Small Quantity Asphalt Concrete Testing and Acceptance.** This procedure is intended for the use of the Contractor. However, small quantity acceptance is not permitted for JMF's that have not been verified by acceptable production under normal testing during the current construction season. The use of new JMF's for small quantities must be approved by the Engineer. The total seasonal production per project for each material type shall not exceed 1500 tons.

The City can sample, test and/or reject any material received under this procedure. Material may be rejected by visual inspection by the project or reject thru City comparison testing. Poor plant or mix control, poor mix performance, poor mix quality, failure to submit the required form as required or ongoing City sample failures can mean disallowing further use of this procedure on the project or future projects. This

**448.05**

procedure may be disallowed by the City for any contractor when documented premature small quantity mix failure in any application has occurred on the contractor's previous project(s).

When material is being produced under this procedure and has a quantity of less than 200 tons a day for each type, the acceptance is by contractor certification as outlined below. No quality control testing is required. A quick check plant calibration must have been performed in accordance with the contractor's QCP as outlined in 403. Computerized plant operation tickets, a copy of the dated and signed quick check calibration(s) and a TE 199 SMQ form must be submitted as outlined below.

If the daily production does not exceed 500 tons a day for each type, the acceptance shall be by contractor certification as outlined below. The contractor shall perform an asphalt binder content test for every two hours of production. The asphalt binder content shall be determined by a nuclear gauge that has been properly offset for the JMF being used. Computerized plant operation tickets and a TE 199 SMQ form must be submitted as outlined below. Contractor samples shall be held at the lab for three days.

The required certification (TE 199 SMQ form) and other required information must be submitted by the next working day to the Laboratory unless otherwise notified by the Engineer. The TE 199 SMQ form shall be signed by an employee of the contractor having authority to represent the contractor as outlined in the contractor's QCP. The TE 199 SMQ form shall be sent to the Engineer if requested.

**448.05 Reports.** Refer to Item 403 for reporting requirements of asphalt mixtures tested at the asphalt plant. Report density gauge QC testing results according to City Supplement 1055. Report small quantities of asphalt concrete using form TE 199 SMQ.

**448.06 Acceptance.** Refer to Item 403 for acceptance requirements. If a project includes 448.03 Density, acceptance will include any density deductions according to City Supplement 1055. If a JMF qualifies as a small quantity of asphalt, follow 448.04 Small Quantity Asphalt Concrete Testing and Acceptance for acceptance requirements.

**448.07 Basis of Payment.** The City will pay for accepted quantities, completed in place, at the contract prices, or at the contract price as modified in 448.06, as follows:

<b>Item</b>	<b>Unit</b>	<b>Description</b>
448	Cubic Yard (Cubic Meter)	Asphalt Concrete, Intermediate Course (Medium Traffic), PG64-22
448	Cubic Yard (Cubic Meter)	Asphalt Concrete, Intermediate Course (Heavy Traffic), PG64-22
448	Cubic Yard (Cubic Meter)	Asphalt Concrete, Intermediate Course (Medium Traffic), PG70-22M
448	Cubic Yard (Cubic Meter)	Asphalt Concrete, Intermediate Course (Heavy Traffic), PG70-22M
448	Cubic Yard (Cubic Meter)	Asphalt Concrete Surface Course (Light Traffic), PG64-22
448	Cubic Yard (Cubic Meter)	Asphalt Concrete Surface Course (Medium Traffic), PG64-22
448	Cubic Yard (Cubic Meter)	Asphalt Concrete Surface Course (Heavy Traffic), PG64-22

448	Cubic Yard (Cubic Meter)	Asphalt Concrete Surface Course (Medium Traffic), PG70-22M
448	Cubic Yard (Cubic Meter)	Asphalt Concrete Surface Course (Heavy Traffic), PG70-22M