

ITEM 26

BITUMINOUS PLANT MIX BINDER (HOT MIX)

26.01 SCOPE OF WORK

This work shall consist of a foundation composed of a hot mixture of aggregate and asphalt prepared in a hot bituminous mixing plant. It shall be constructed in one or more layers, on a prepared subgrade, granular subbase, or base, in accordance with these Specifications and in reasonably close conformity with the lines, grades, thicknesses and typical cross-sections shown on the Plans or as directed by the Engineer. Each course shall have a thickness after compaction of not more than four inches. This construction shall include a leveling course if specified on the Plans.

The provisions of Item 12 of these Specifications shall apply to this construction unless otherwise stipulated.

26.02 MATERIALS

- (a) The materials used in this construction shall conform to the requirements of the following Items.

ITEM 67.01 ASPHALT CEMENT
PENETRATION GRADE 60-70, OR 85-100 OR AC20

ITEM 73.06 AGGREGATE FOR MIXTURE
GRADING A, B, C1 OR C2

ITEM 73.16 INSULATION COURSE MATERIAL

- (b) The specific grade of asphalt cement to be used will be decided by the Engineer. The specific grading of aggregate to be used will be specified in the Contract or shown on the Plans. Mineral aggregate, bituminous material and plant mix will be accepted as provided for in Item 12.02.

26.03 COMPOSITION OF MIXTURES

- (a) The specified mineral aggregate and asphalt cement shall be combined in such proportions as to produce mixtures within the following master composition limits:

Pay Item Number	Description	Proportion of Total Mixture by Weight		
		Aggregate Gradation	Combined Mineral Aggregate	Asphalt Cement
26A	Binder Type "A"	A	94%-97.5%	2.5%-6%
26B	Binder Type "B"	B	94%-97.5%	2.5%-6%
26C1	Binder Type "C1"	C1	94%-97.5%	2.5%-6%
26C2	Binder Type "C2"	C2	94%-97.5%	2.5%-6%

- (b) The bituminous base and/or leveling course shall be composed of aggregate and bituminous materials. The hot plant mixes shall comply with the applicable requirements of Item 12.03.

26.04 EQUIPMENT

All equipment necessary for the satisfactory performance of this construction shall be on the project, and approved before work will be permitted to begin. The equipment shall meet the requirements of Item 12.04 through 12.17 of these Specifications.

26.05 GENERAL CONSTRUCTION REQUIREMENTS

The construction requirements shall be as prescribed in Item 12.11 through Item 12.17, Item 21.09, Item 26.06 and Item 26.07 of these Specifications.

26.06 PREPARATION OF SUBGRADE, SUBBASE, OR SURFACE

- (a) The Plans will indicate whether the plant-mixed base is to be constructed on a treated or untreated subgrade or subbase, on a granular base, or insulation course, or on an existing surface. Conditioning of existing surface, when called for on the Plans, shall be in accordance with the provisions of Item 12.10. Prime coat or tack coat, when specified on the Plans, shall be constructed in accordance with the provisions of Item 21 or Item 22, respectively.
- (b) Bituminous plant-mix base mixture shall be placed only upon a surface that is dry, and cleaned of loose particles and other undesirable materials.

26.07 THICKNESS AND SURFACE REQUIREMENTS

- (a) Thickness shall be controlled during the spreading operation by frequent measurements taken on the freshly spread mixture to establish the relationship between the uncompacted mixture and the completed course. Thickness or pounds per square yard shall be within reasonably close conformity with that specified on the Plans.
- (b) The surface of the bases shall meet the requirements specified under Item 12.18 and then tested in accordance with the provisions of that Item. The deviation of the surfaces from the testing edge of the straight-edge shall not exceed the amounts shown below for the several types of mixtures:

Grading A Mixture	1/2 Inch
Grading B Mixture	3/8 Inch
Grading C Mixture	3/8 Inch

26.08 METHOD OF MEASUREMENT (IF APPLICABLE)

- (a) "Bituminous Plant Mix Binder" will be measured by the unit(s) specified in the bid schedule, accepted and placed as indicated on the Plans and/or Specifications or as directed by the Engineer.
- (b) No allowance will be made for unacceptable materials; for material furnished or used in excess of the amount indicated on the Plans and/or Specifications or as directed by the Engineer; no allowance will be made for material used in replacing defective or condemned construction; and no allowance will be made for material wasted in handling, hauling, or otherwise.

26.09 BASIS OF PAYMENT (IF APPLICABLE)

"Bituminous plant mix binder" shall be paid for at the contract unit price specified in the bid schedule for Binder Type "A", Binder Type "B", Binder Type "C1" or Binder Type "C2", complete-in-place, which price shall be full compensation for the construction of a bituminous plant mix binder, as indicated or directed, and indicated on the Plans and/or Specifications or as directed by the Engineer, and in accordance with the conditions, stipulations, provisions, and requirements contained herein; for completing all incidentals thereto; and for furnishing all materials, equipment, tools, labor, and incidentals required to complete this Item.

END OF DOCUMENT