

300 BASES

ITEM 301 - BITUMINOUS AGGREGATE BASE

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301.01 Description. This work shall consist of constructing a base course of aggregate and bituminous material, mixed in a central plant and spread and compacted on a prepared surface in accordance with these specifications and in reasonably close conformity with the lines, grades, and typical sections shown on the plans or established by the Engineer.

All materials and construction methods for Bituminous Aggregate Base shall conform to 401 General Plant Mix Pavements; deviations from these are as follows:

301.02 Composition. The gradation of the aggregate shall be uniform and shall be within the limits in the following table:

Composition

Sieve	Total Passing, % by Wt.
2 inch (50 mm)	100
1 inch (25 mm)	75 - 100
1/2 inch (13 mm)	50 - 85
No. 4 (4.75 mm)	25 - 60
No. 8 (2.36 mm)	15 - 45
No. 16 (1.18 mm)	10 - 35
No. 50 (300mm)	3 - 18
No. 200 (75mm)	1 - 7

Bitumen content shall be as directed by the Engineer within the following limits:
Bitumen (Percent of total mix) 4-8

301.03 Materials. Material for this item shall meet the following:

Aggregate	703.04
Bituminous Material,	
Asphalt Cement.....	401.07
Mineral Filler.....	703.07

301.031 Use of Reclaimed Pavement. In addition to the requirements of 401.04, the Contractor may use 10 to 30 percent of reclaimed asphalt concrete pavement or reclaimed bituminous aggregate base pavement in 301. If the Contractor is using greater than 20 percent of reclaimed asphalt concrete pavement or reclaimed bituminous aggregate base pavement, then the viscosity of the recovered bitumen from the reclaimed pavement shall be submitted to the Engineer. The material Producer will establish the job-mix formula in accordance with 401.02.

301.04 Mixing Plants. Screens shall have openings of such sizes that will result in a reasonably balanced separation of the dried and heated aggregate into a minimum of two bins.

301.05 Spreading and Finishing. The maximum compacted depth of any one layer shall be 6 inches (152 mm). *The temperature of the mixture when delivered to the paver shall be a minimum of 250°F (120°C), provided the mix temperature is sufficient for the roller coverage to be effective in compacting the mixture.* Following the completion of bituminous aggregate base, any adjacent earth construction shall be placed and compacted a minimum of 18 inches (0.45m) in width.

301.06 Spreading and Surface Tolerances. The variation of the surface from the testing edge of the 10 foot (3.0 m) straight edge shall not exceed 1/4 inch (6.2 mm).

Variations in excess of slope or surface tolerances shall be corrected by adding or removing material in a manner satisfactory to the Engineer. Asphalt concrete Items 402 and 404 specified in the contract may be used for this purpose.

301.07 Method of Measurement. The number of tons (metric tons) of Bituminous Aggregate Base to be paid for under this item shall be the number of tons (metric tons) placed, completed and accepted according to plant weight tickets.

301.08 Basis of Payment. Payment for accepted quantities, complete in place, will be made at the contract price for:

Item	Unit	Description
301	Ton (Metric Ton)	Bituminous Aggregate Base