

Liquid Asphalt Binder will not be measured and paid for separately for mixture used in ditch paving.

Payment for each item includes all direct and indirect costs and expenses required to complete the work.

Payment will be made under:

Item No.	Pay Item	Pay Unit
403XXXX	Hot Mix Asphalt Surface Course (Type <i>(1, 1B, 1C, 3, or 4)</i>)	Ton
4037000	Hot Mix Asphalt Surface Course for Ditch Paving	Ton

SECTION 404

COLD MIX ASPHALT BINDER COURSE

404.01 Description. This work shall consist of a binder or intermediate course composed of mineral aggregate and asphalt material, mixed in an approved plant and constructed on a prepared surface in accordance with these specifications and conforming to lines, grades, dimensions, thickness, and typical cross-section shown on the plans or as otherwise specified.

MATERIALS

404.02 Asphalt Material. The asphalt material shall conform to the requirements specified in Subsection **405.02**.

404.03 Mineral Aggregate. The mineral aggregate shall meet the requirements specified in Subsection **401.03**.

404.04 Composition of Asphalt Binder Course. The mineral aggregate and asphalt material shall be combined in such proportions that the composition by weight of the fin-

ished mixture shall be within the following composition limits.

Composition Limits for Asphalt Binder Courses

Gradation Requirements	
Sieve Designation	Percentage by Weight Passing
3/4 inch	100
1/2 inch	95 – 100
3/8 inch	60 – 98
No. 4	30 – 65
No. 8	17 – 36
Note: The amount between any two consecutive sieves smaller than the 1/2 inch sieve shall be not less than 5%.	

Percent of Total Mixture	
Bitumen	4.0 – 7.0

Marshall Stability, lbs.	
Minimum	800

The above composition limits are master ranges of tolerance. A closer control meeting the requirements of Subsection **401.04** will be required.

Asphalt binder (PG64-22) will be used in design of mixture to check Marshall Stability on the approved job mix.

CONSTRUCTION REQUIREMENTS

404.05 Construction Requirements. Construction requirements specified in Subsections **405.06** through **405.18** shall apply to Cold Mix Asphalt Binder Course work.

404.06 Method of Measurement and Basis of Payment. This item will be measured and paid for as specified in Subsections **405.19** and **405.20**.

Payment for this item includes all direct and indirect costs and expenses required to complete the work.

Payment will be made under:

Item No.	Pay Item	Pay Unit
4041000	Cold Mix Asphalt Binder Course	Ton

SECTION 405

COLD MIX ASPHALT SURFACE COURSE

405.01 Description. This work shall consist of a surface course composed of mineral aggregate and asphalt material, mixed in an approved plant and constructed on a prepared surface in accordance with these specifications and conforming to the lines, grades, dimensions, thickness, and typical cross-section shown on the plans or as otherwise specified.

MATERIALS

405.02 Asphalt Material. The asphalt material to be used in the mix shall conform to the following cited specifications:

RC 250, RC 800, or RC 3000 - - - - - AASHTO M 81
MC 250, MC 800, or MC 3000 - - - - - AASHTO M 82

Asphalt binder (PG64-22) may be blended with a cut-back asphalt or a liquefier provided a quality mix is produced. Also, a cut-back asphalt emulsion may be used provided an excellent mix results.

405.03 Mineral Aggregate. The mineral aggregate shall meet the requirements as specified in Subsection **401.03**.

405.04 Composition of Asphalt Surface Course. The mineral aggregate and the asphalt material shall be combined in such proportions that the composition by weight of the finished mixture shall be within the range limits shown in the