

SECTION 02635

ASPHALT CONCRETE OVERLAY

PART 1 - GENERAL

1.1 Description

A. Description of Work

Asphalt concrete overlay consists of the placing and compaction of plant mix asphalt concrete over existing asphalt concrete paving. The thickness of the overlay shall be as shown on the plans or as specified in the special provisions. Preliminary preparation of existing surfaces will be required except when accomplished by the **OWNER**, and it is so stipulated in the special provisions. With the exception of those which have been preheated and remixed only, existing surfaces shall receive a tack coat prior to placement of the asphalt concrete overlay.

B. Related Work Specified Elsewhere

| | |
|-------------------------------------|---------------|
| Bituminous Prime and Tack Coat..... | Section 02620 |
| Asphalt Concrete Pavement..... | Section 02630 |
| Valve Box, MH and other..... | Section 02550 |
| Utility Adjustments | and 02570 |

1.2 Quality Assurance

Reference test standards and specifications, Frequency of Testing, Acceptable Tolerances and Acceptance per Specification Section 2620, Bituminous Prime and Tack Coat and Section 2630, Asphalt Concrete Pavement.

1.3 Submittals

A. Submittals as Specified in the Following Sections:

| | |
|-------------------------------------|---------------|
| Bituminous Prime and Tack Coat..... | Section 02620 |
| Asphalt Concrete Pavement..... | Section 02630 |

B. Certificates of Compliance

- 1. Pavement Fabric Interlayer.....Section 02680

PART 2 - MATERIALS

2.1 Asphalt Concrete Overlay

The tack coat, asphalt concrete and the transportation and placement of the mix shall be as specified in Sections 2620 Bituminous Prime and Tack Coat, and Section 2630 Asphalt Concrete Overlay.

2.2 Aggregate Gradation

The aggregate gradation for Asphalt Concrete Overlays shall meet the following requirements:

| % Passing | Sieve Size |
|------------------|-------------------|
| 100 | 1 inch |
| 90-100 | 3/4 inch |
| 75-100 | 1/2 inch |
| 65-90 | 3/8 inch |
| 45-70 | No. 4 |
| 30-55 | No. 8 |
| 15-35 | No. 30 |
| 2-8 | No. 200 |

2.3 Pavement Fabric Interlayer

Products such as Petromat L17547, Polyfelt PGM20, or AmoPave HD4597 or approved equal meeting the following requirements:

| Property | Specifications |
|--|---|
| Tensile strength, lbs. (ASTM-D4632) | 100 |
| Grab elongation % (ASTM-D4632) | 50 |
| Asphalt retention (gals/sq yd) | .30 |
| Melting point (degrees fahrenheit) | Above temperatures of anticipated paving materials |

PART 3 - EXECUTION

3.1 Asphalt Concrete Overlay

The tack coat, asphalt concrete and the placement and compaction of the mix shall be as specified in Section 2620 Bituminous Prime and Tack Coat and Section 2630 Asphalt Concrete Pavement except as modified herein.

3.2 Weather Limitations

Do not place bituminous mixture upon a wet surface or when the surface temperature of the underlying course is less than 40 degrees Fahrenheit or when weather conditions otherwise prevent the proper handling and finishing of the bituminous mixture.

3.3 Preparation of Existing Surfaces

When the surface of the existing pavement is irregular or broken, it shall be repaired or brought to uniform grade and cross section with asphalt concrete as directed by the **ENGINEER**. The entire surface shall be cleaned with a power broom. Raveled areas that do not require removing shall be cleaned by hand brooming unless otherwise indicated. All raised pavement markers shall be removed prior to the tack coat being applied.

After the surfaces have been prepared by the **CONTRACTOR** to the satisfaction of the **ENGINEER**, then shall receive a tack coat as specified in Section 2620. Traffic will not be permitted over surfaces which have received a tack coat. When the overlay is to extend onto the concrete gutter, the gutter shall be thoroughly cleaned of loose dust and cement particles and shall be tack coated.

Pavement Fabric Interlayer shall be placed in accordance with the manufacturer's recommendations at the locations indicated on the plans.

3.4 Adjustment of Existing Structures

Manholes shall be built up and the frames set flush with the finished surface of the new paving, and tops of valve boxes, clean-outs and other existing structures shall be adjusted to finish grade in accordance with Sections 2550, Water Line Construction and 2570, Manhole Construction. In the event the base course and original paving have been removed or disturbed to build up the manhole, they shall be replaced with approved materials which shall be thoroughly compacted. The asphalt concrete around the manhole frame shall be completed and made flush with the adjacent overlay.

PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement

The quantity of asphalt concrete overlay to be paid for will be determined by measurement of the number of square yards of material constructed and accepted by the **OWNER** as complying with the drawings and specifications. The quantity shall be based on plan dimensions.

Preparation of existing surfaces including sweeping, crack filling, tack coat, and any other necessary work required prior to placing the asphalt concrete overlay shall be considered as incidental to the bid item for asphalt concrete overlay.

4.2 Payment

Payment for an accepted asphalt concrete overlay will be made at the full or adjusted contract unit price per square yard in-place. The price shall be full compensation for furnishing all materials, for all preparation, mixing, testing, and placing of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under Item No.:

2635.1 - 2" Asphalt Concrete Overlay, S.Y.

****END OF SECTION****

LHC 02635-4