

SECTION 321216
ASPHALT PAVING (*AD-03)

PART 1 GENERAL

1.01 QUALITY ASSURANCE

- A. Perform Work in accordance with Virginia Department of Transportation (VDOT) Road and Bridge Specifications and Road and Bridge Standards.
- B. Obtain materials from same source throughout.

1.02 FIELD CONDITIONS

- A. Do not place asphalt when ambient air or base surface temperature is less than 40 degrees F, or surface is wet or frozen.
- B. Place bitumen mixture when temperature is not more than 15 F degrees below bitumen supplier's bill of lading and not more than maximum specified temperature.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Prime Coat: Emulsified asphalt in accordance with VDOT Road and Bridge Specifications.
- B. Tack Coat: Emulsified asphalt, complying with ASTM D977 or ASTM D2397 for cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

2.02 ASPHALT PAVING MIXES AND MIX DESIGN

- A. Plant-mixed, hot-laid asphalt-aggregate mixture complying with the requirements of the VDOT Road and Bridge Specifications and as recommended by local paving authorities to suit project conditions.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that compacted subgrade is dry and ready to support paving and imposed loads.
- B. Verify gradients and elevations of base are correct.

3.02 AGGREGATE BASE COURSE

- A. Place and compact aggregate base course.

3.03 PREPARATION - PRIMER/TACK COAT

- A. Apply primer in accordance with manufacturer's instructions.
- B. Apply primer on aggregate base or subbase at uniform rate of 1/3 gal/sq yd.
- C. Apply primer / tack coat to adjacent contact surfaces of curbs or gutters.
- D. Use clean sand to blot excess primer.

3.04 PLACING ASPHALT PAVEMENT - DOUBLE COURSE

- A. Place asphalt binder and wearing courses to compacted thicknesses indicated on Drawings.

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- B. Place asphalt binder course within 24 hours of applying primer or tack coat.
- C. Place asphalt wearing course within two hours of placing and compacting binder course.
- D. Compact pavement by rolling to specified density. Do not displace or extrude pavement from position. Hand compact in areas inaccessible to rolling equipment.
- E. Perform rolling with consecutive passes to achieve even and smooth finish, without roller marks.

3.05 TOLERANCES

- A. Flatness: Maximum variation of 1/4 inch measured with 10 foot straight edge.
- B. Compacted Thickness: Within 1/4 inch of specified or indicated thickness.
- C. Variation from True Elevation: Within 1/2 inch.

3.06 PROTECTION

- A. Immediately after placement, erect barricades to prevent traffic and protect pavement from mechanical injury until surface temperature has cooled and hardened.

END OF SECTION 321216