

807 - PAINTED PAVEMENT MARKING

SECTION 807

PAINTED PAVEMENT MARKING

807.1 DESCRIPTION

Apply pavement markings as shown in the Contract Documents.

BID ITEMS

Pavement Marking (Paint) (*) (**)
Pavement Marking Symbol (Paint) (White) (***)
* Color
** Width
*** Type of Symbol

UNITS

Linear Foot
Each

807.2 MATERIALS

Provide paint that complies with **SECTION 2200**.

807.3 CONSTRUCTION REQUIREMENTS

a. Equipment. Use self-propelled or truck-mounted equipment designed for the purpose of applying painted pavement markings of the type, width and thickness required. Hand application or towing of the equipment will be allowed for smaller areas as approved by the Engineer. Equip the machine with an adjustable guide-on to obtain proper placement of the line.

b. Contractor's Personnel. Provide a minimum of 1 employee on the project holding an American Traffic Safety Services Association (ATSSA) pavement marking certification and experienced in the application of the appropriate type of pavement marking material.

c. Surface Preparation. On existing pavements, remove the existing pavement markings according to **DIVISION 808** and the recommendations of the manufacturer of the new painted pavement markings.

Remove temporary pavement markings, if any, the same day the painted pavement markings are applied.

Remove loose particles, dirt, tar, grease, residue of prior pavement markings and other deleterious material from the pavement surfaces as a result of surface preparation.

d. Alignment. Lay out the pavement marking as detailed in the Contract Documents. If the Contract Documents do not provide details, submit a layout plan for the pavement markings to the Engineer for approval. Locate longitudinal pavement marking stripes a minimum of 2 inches and a maximum of 8 inches from longitudinal joints. Provide adequate guide marks (approximately 2 inches by 1 foot at approximately 50-foot intervals) for the application of the pavement markings.

e. Pavement Marking Application. Provide the Engineer with a copy of the manufacturer's application instructions. Apply paint according to the manufacturer's recommendations.

Apply paint at a wet film thickness of 18 mils at an approximate rate of 3.8 gallons per 1,000-foot for 4-inch solid line, and 0.95 gallons per 1,000-foot for 4-inch broken line. For other widths of marking, increase the amount of paint proportionally.

Apply glass beads to the painted line at a rate of 12 pounds of glass beads for each gallon of paint. Use an automatic bead dispenser attached to the striping machine in such a manner that the beads are dispensed almost instantaneously upon the line as it is being installed. Equip the glass bead dispenser with an automatic cut-off control synchronized with the cut-off of the paint.

Keep traffic from crossing the newly applied lines by coning off the lines until the lines are dry to no-pick-up. The Contractor may reduce or eliminate the need for this by using fast dry paints and approved traffic control.

Do not apply the paint when the air temperature is below 40°F, upon damp or frosted surfaces, or when, in the opinion of the Engineer, conditions are not satisfactory for the work.

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f. Replacement of Unsatisfactory Pavement Marking. Apply pavement markings straight and close to the intended alignment without abrupt changes that result in an unacceptable appearance. Lines that deviate laterally from the intended alignment more than 2 inches in 200 feet may be rejected.

Remove and replace pavement markings that have:

- drag marks,
- gashes,
- gouges,
- foreign covering,
- discolored areas,
- areas that have failed to solidify,
- improper adhesion,
- improper width, length or thickness,
- areas that present a ragged appearance,
- areas that do not present sharply defined edges,
- areas with abrupt unintended changes in alignment.
- Do not meet **TABLE 807-1**.

TABLE 807-1: PAINTED PAVEMENT MARKING MINIMUM RETROREFLECTIVITY REQUIREMENTS		
TYPE OF MATERIAL	COLOR	millicandelas/sq m/lux* (minimum) (Initial)
Waterborne Traffic Paint	White	250
	Yellow	175

NOTE: Provide an acceptable 100-foot retroreflectometer to use on the project which will remain the property of the Contractor. In the presence of the Engineer, measure the retroreflectivity between 12 hours and 7 days after the application of all pavement markings. Take a minimum of 5 randomly spaced readings per color line every 1 mile. The Engineer will average all of the readings for each color line within the 1 mile section to determine the retroreflectivity.

Removal and replacement of unsatisfactory pavement marking will be at the Contractor’s expense.

807.4 MEASUREMENT AND PAYMENT

The Engineer will measure the painted pavement marking by the linear foot for the various widths and classes. The Engineer will measure each symbol.

Payment for "Pavement Marking (Paint)" and "Pavement Marking Symbol (Paint) (White)" at the contract unit prices will be full compensation for the specified work.