

MICHIGAN  
DEPARTMENT OF TRANSPORTATION  
  
SPECIAL PROVISION  
FOR  
**PAVEMENT MARKING EQUIPMENT**

PMK:MKB

1 of 2

APPR:MWB:DBP:06-07-23  
FHWA:APPR:06-20-23

**Delete subsection 811.03.A on page 623 of the Standard Specifications for Construction in its entirety and replace it with the following:**

- A. **Equipment.** Provide self-propelled equipment certified by the Department in accordance with MDOT's *Equipment Certification Guidelines – Pavement Markings* for longitudinal striping on roadways. Certification is effective for 2 years. The Engineer may approve other equipment for special markings, parking lots, or areas inaccessible to self-propelled pavement marking equipment.

Apply longitudinal lines using certified self-propelled pavement marking equipment equipped with at least two binder tanks (plus a third catalyst tank for plural component materials) each having a capacity of at least 100 gallons and, if a double drop of two different optics is required, at least two optics tanks that may be utilized at the same time and have enough capacity to match the operating duration of 100 gallon binder tanks. Operate marking equipment at no greater than the certified speed. The Engineer will assume that a striper operating above the certified working speed has operated at that speed for the entire day.

The Department may inspect the equipment at any time.

Use equipment capable of uniformly applying material to the required length and width.

Combination lines (double solid, solid and broken, double broken) must be placed in a single pass utilizing a multi-gun system. If the project calls for 4-inch width centerlines, provide equipment for placing centerlines equipped to apply three 4-inch-minimum-width lines on a two-lane road in one pass. If applying multiple centerlines, use three spray guns positioned 6 inches on center. If the project calls for 6-inch width centerlines, provide equipment for placing centerlines equipped to apply two 6-inch-minimum-width lines on a two-lane road in one pass. If applying multiple centerlines, use two spray guns positioned 10 inches on center. For two-lane freeways, apply the lane line from the left lane. For freeways with at least three lanes, apply the right lane line with the right edgeline when the right lane line and edgeline are the same material.

Use an easily adjusted, dashing mechanism to retrace existing lane or centerline markings.

Use a self-propelled pavement marker equipped to mark pavement in either direction on a roadway. Provide equipment setup to apply markings off both sides of the truck simultaneously when not striping in a recess. The driver's side carriage must be equipped with a dedicated white gun along with the yellow guns. The truck must also be

equipped with blowers in front of the gun carriages with the air supply produced by a minimum 185 cfm compressor. If striping contraflow to traffic, a lane closure must be utilized. Use a continuous skip cycle. Do not zero or return the cycle control unit to the beginning or start of a new cycle.

Provide a distance meter to measure the length of each line.

The Engineer may check the calibration of metering devices at any time. If the Engineer determines that the equipment is unsatisfactory, use other methods approved by the Engineer.

Use equipment for placing hot-applied thermoplastic and sprayable thermoplastic material that can maintain the temperature recommended by the material manufacturer.

Allow time for the Engineer to inspect traffic control devices as shown in MDOT's *Pavement Marking Convoy Typical*s or the project plans prior to marking applications and make any corrections as directed by the Engineer before continuing. If applying markings on a roadway closed to traffic, the traffic control devices specified in MDOT's *Pavement Marking Convoy Typical*s are not required, unless otherwise directed by the Engineer.

The equipment must have the following minimum safety equipment: a backup camera; strobes on the front, rear and midpoint of the truck bed; flood lights for night work; and flashers on the gun carriages.