



Iowa Department of Transportation

SPECIAL PROVISIONS FOR HIGH-BUILD WATERBORNE PAINT PAVEMENT MARKINGS

Statewide
NHSN-000-S(309)--2R-00
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Effective Date
January 20, 2010

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

090029.01 DESCRIPTION.

This work involves furnishing and installation of permanent high-build waterborne paint pavement markings with retroreflective glass beads. Markings shall be placed in shallow grooves. Only broken lane lines are intended to be painted.

090029.02 MATERIALS.

The traffic paint shall be a high build waterborne traffic paint that is listed on Materials I.M. 483.03 Appendix C.

The bead application rate, bead gradation, and bead coating shall be at the discretion of the Contractor. An appropriate bead package shall be used to consistently exceed the minimum initial retroreflectivity requirements shown in Article SP-090029.03.

090029.03 CONSTRUCTION.

Apply Article 2527.03 of the Standard Specifications except as modified by this specification.

Groove longitudinal lines according to Article 2527.03, I, of the Standard Specifications. The groove depth shall be 0.080 inches \pm 0.010 inches. The width of the groove shall be the design width of the line with a tolerance of minus 0.0 inches and plus 0.2 inches.

The grooving for broken lane lines shall follow the standard cycle: 10 feet of marking and 30 feet of gap (no marking). The start of the cycle shall be made so that most of the existing marking is removed with the groove. A continuous groove for broken centerlines and broken lane lines shall not be used. No additional removal of existing markings is required.

Supply the Engineer with a copy of the paint manufacturer's recommendations for applying the marking material. The recommendations shall include minimum pavement temperature required for painting. Install the paint according to the manufacturer's recommendations.

Binder thickness shall be 0.022 inches \pm 0.0025 inches. Demonstrate to the Engineer at the start of work the ability to meet the initial retroreflectivity requirements.

Final acceptance of markings will entail the markings meeting the initial retroreflectivity requirements measured 7 to 35 calendar days following placement and evaluated using 30 meter viewing geometry. The procedure found in Materials I.M. 386 will be used to determine the retroreflectivity.

**Minimum Coefficient of Retroreflectivity
Initial Placement**

| | (mcd. / sq. ft. / ft. - cdl.) |
|---------------------------|-------------------------------|
| White longitudinal lines | 300 |
| Yellow longitudinal lines | 225 |

090029.05 METHOD OF MEASUREMENT.

Apply Article 2527.04.

090029.06 BASIS OF PAYMENT.

Apply Article 2527.05.