



DocuSigned by:  
*Matthew V. Springer*  
BC60F6E8B584403...  
01/24/2024

## **GREEN BIKE LANE PAVEMENT MARKINGS:**

(01-24-24)

### **Description**

Apply various pavement marking materials to create specialized bike lane markings. Bike lane markings shall only be used on travel lanes reserved exclusively for bicycles.

### **Materials**

Use pavement marking products used for the marking of bike lanes that are listed on the NCDOT APL. All materials used for bike lane pavement markings shall conform to Sections 1087 and 1205 of the *Standard Specifications*. Thermoplastic thickness shall be a minimum of 90 mils. Methyl Methacrylate (MMA) thickness shall be a minimum of 50 mils. All bike lane marking material shall be skid resistant. Bike lane pavement markings shall be green in color. Furnish technical data regarding material type and application rate from manufacturer to the Engineer for approval prior to starting work.

### **Material Certification**

Green-colored pavement markings is not required to be retroreflective.

Furnish the following pavement marking material certifications in accordance with Article 106-3.

Extruded Thermoplastic	Type 3 Material Certification and Type 4 Material Certification
Heated-In-Place Thermoplastic	Type 3 Material Certification
MMA	Type 2 Material Certification and Type 3 Material Certification
Drop-on Reflective Media	Type 3 Material Certification and Type 4 Material Certification

Intermixed Reflective Media	Type 2 Material Certification and Type 3 Material Certification
-----------------------------	---

**Application**

Material preparation and application shall be in accordance with the manufacturer’s specifications. Ensure the pavement surface is free of dirt, grease, dust, oil, moisture, mud, grass, or any material that would prevent adhesion to the pavement. Make sure pavement markings are applied in a uniform thickness.

Apply pavement markings only when ambient air temperature and pavement surface temperature is 50°F or higher.

Bike Lane Pavement Markings color shall fall within these chromaticity coordinates:

1		2		3		4	
X	Y	X	Y	X	Y	X	Y
0.230	0.754	0.266	0.500	0.367	0.500	0.444	0.555

Nighttime Bike Lane Markings color shall only be these chromaticity coordinates:

1		2		3		4	
X	Y	X	Y	X	Y	X	Y
0.230	0.754	0.336	0.540	0.450	0.500	0.479	0.520

**Measurement and Payment**

*Pavement Markings (Bike)* will be measured and paid as the actual number of square feet of pavement markings satisfactorily placed and accepted by the Engineer. The quantity of the lines will be the summation of the square feet of markings measured.

Payment will be made under:

**Pay Item**  
Pavement Markings (Bike)

**Pay Unit**  
Square Feet