

10/01/08

Page 1 of 2

SUPPLEMENTAL SPECIFICATION**SECTION 632 -- RETROREFLECTIVE PAVEMENT MARKINGS**

This Supplemental Specification revises Retroreflective Pavement Marking Tape to conform to current ASTM standards, modifies the blackout tape thickness, and allows for placement of Identification Numbers to be placed prominently on tanks.

Amend 2.2, 2.3, and 2.4.1 to read:

2.2 Glass beads shall conform to AASHTO M 247 and shall be Type 1 with a moisture resistant coating.

2.3 Permanent Tape - Preformed retroreflective pavement marking tape for extended service life shall conform to ASTM D 4505, Retroreflectivity Level I or II, Adhesive Class 2 or 3, Skid Resistance Level A or B. Level I tape should be used when no external lighting source (i.e. overhead lighting) is present and Level II markings should be used when an external lighting source is present. The tape shall be a product listed on the Qualified Products List.

2.4 Temporary Tape - Retroreflective preformed pavement marking tape for limited service life shall conform to ASTM D 4592 Type I (Removable) or Type II (Non-removable). Type I tapes should be used in areas that require the tape to be removed in the future and Type II tapes should be used when the required service life of the tape is less than three months and can be left in place due to pavement overlay or other similar activity. Type I and II tapes shall have a minimum skid resistance of 45 BPN. The tape shall be a product listed on the Qualified Products List.

2.4.1 Blackout pavement marking tape shall conform to ASTM D 4592 Type I (Removable), except that the material shall be matte black and not be retroreflective. The tape shall be a product listed on the Qualified Products List.

Amend 2.5.5.3 to read:

2.5.5.3 The material shall be applied at a minimum thickness of 80 mils.

Construction Requirements

Amend 3.1.1 and 3.1.1.1 to read:

3.1.1 All pavement markings of the type specified shall be applied at the locations shown on the plans or as ordered, and shall be in accordance with the MUTCD and the NH Standard Plans for Road and Bridge Construction. Traffic control operations in conjunction with placing markings shall conform to 619 and the Traffic Control Plan.

3.1.1.1 The Contractor shall establish the base line points at 50 ft. (20 m) intervals on curves and 100 ft. (40 m) intervals on tangent sections throughout the length of pavement to be marked under this section from the Department provided control points. All other pavement markings shall be applied according to the physical pavement layout provided. The Contractor shall provide the pavement marking layout on the final wearing course pavement to the Engineer at least 3 working days prior to installation of the permanent pavement markings unless otherwise permitted.

Amend 3.2.1 to read:

3.2.1 All equipment used for highway striping shall be specifically designed and manufactured for that purpose by a company experienced in the design and manufacture of such equipment and approved for use. Equipment used for longitudinal lines shall be mounted on a truck having a minimum gross vehicle weight rating of 14,000 lb (6350 kg) with a minimum paint tank capacity of 60 gal (225 L), and shall have the capability of placing double lines up to 4 in. (100 mm) in width or single lines up to 12 in. (300 mm) in width in one pass. Each paint tank shall be plainly marked in a prominent place with the maximum filled capacity of the tank. Each tank shall have a mixer or aerator capable of combining and maintaining the ingredients of the paint into a thoroughly mixed and uniform mass. The paint shall be applied with an atomizing or airless spray type striping machine having the waterbase paint at a temperature of 105 °F (40 °C) maximum in the heat exchanger and 85 – 105 °F (30 – 40 °C) at the spray nozzle. Paint shall pass through a screen with a maximum opening of 1/8 of an inch (3.175 mm) located before the heat exchanger. A valve accessible for sampling shall be located in the paint feed line between the screen and the heat exchanger. The striping machine shall be equipped with an automatic paint stripe controller having skip-line capability to place broken lines in accordance with 3.1.3 and the NHDOT Standard Plans. A gauge reading paint temperature shall be mounted and conveniently displayed on the equipment. The equipment shall include a mechanical, glass-bead dispenser mounted not more than 12 in. (300 mm) behind the paint dispenser. All equipment shall be kept in good operating condition.

Revise the KEY TO ITEM NUMBERS FOR PAVEMENT MARKINGS as follows:

- .5 Preformed Retroreflective Tape, Level I
- .6 Preformed Retroreflective Tape, Level II

Examples (ENGLISH):

632.5104	Preformed Retroreflective Tape, Level I, 4 in Line	Linear Foot
----------	---	-------------

Examples (METRIC):

632.5110	Preformed Retroreflective Tape, Level I, 100 mm Line	Linear Meter
----------	---	--------------