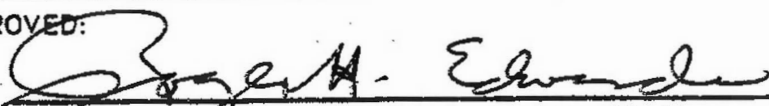


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| <b>TO:</b><br><b>SUPERSEDED BY EI 84-039</b><br><b>EFFECTIVE 11/29/84</b>                                                                                             |  | <b>ENGINEERING INSTRUCTION</b><br>NEW YORK STATE DEPARTMENT OF TRANSPORTATION        |  |
| Bureau                                                                                                                                                                |  | <b>SUBJECT: REMOVABLE PAVEMENT MARKINGS (TEMPORARY)</b><br>Subject Code: 7.27-1-619. |  |
| <b>Distribution:</b><br><input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Regions <input checked="" type="checkbox"/> Special                  |  | <b>Code:</b> EI 82-51<br><b>Date:</b> 7/21/82<br><b>Supersedes:</b>                  |  |
| <b>APPROVED:</b><br><br>R. H. EDWARDS, Deputy Chief Engineer, Facilities Design Div. |  |                                                                                      |  |

§619-3.01, Basic Maintenance and Protection of Traffic, requires that some temporary pavement markings be removed in such a manner that the finished pavement is neither damaged nor left in a pattern that will mislead the motorist. Traditionally, temporary pavement markings have consisted of painted lines and the methods used to remove them haven't been entirely satisfactory because they sometimes scar the surface. At night, these scars could have the potential to mislead a motorist.

To overcome this problem, we have prepared the attached special specifications for removable, temporary pavement markings. While these materials should prove easy to remove, they are relatively expensive. Therefore, they should be specified only where complete removal of temporary markings is necessary to avoid confusing drivers, such as on surfaces which will later be used to carry traffic in a direction skewed to the line.

The attached specifications are:

- 15619.1901 - White Construction Pavement Markings - Removable lines
- 15619.1902 - Yellow Construction Pavement Markings - Removable lines
- 15619.1903 - White Construction Pavement Marking - Removable letters
- 15619.1904 - White Construction Pavement Marking - Removable symbols

These items are main office inserts. They may be used immediately and their location should be shown on the contract drawings.

- 15619.1901 White Construction Pavement Markings - Removable Lines
- 15619.1902 Yellow Construction Pavement Markings - Removable Lines
- 15619.1903 White Construction Pavement Marking - Removable Letters
- 15619.1904 White Construction Pavement Marking - Removable Symbols

DESCRIPTION Under these items of work, the contractor shall furnish, apply and remove pavement markings at the locations and in accordance with patterns indicated in the Contract Documents, the New York State Manual of Uniform Traffic Control Devices, or in the patterns and at locations directed by the Engineer.

MATERIALS Materials used shall possess the following characteristics:

Color. The color shall meet the requirements of §727-01.01 White and Yellow Thermoplastic Reflectorized Pavement Markings.

Durability. The markings shall last at least 30 days under expected traffic and environmental conditions with at least 90% of the marking in place after this period.

Visibility. The markings shall be clearly perceptible during day or night, wet or dry periods.

Removability. The markings shall be removable without a visible trace remaining after 24 hours have elapsed following removal.

Marking materials will be accepted on the basis of their brand name appearing on the approved products list. Detailed requirements and procedures for the approval of removable pavement marking materials may be obtained from the director of the Materials Bureau. Alternate materials will be accepted by the Materials Bureau on the basis they possess the characteristics given above.

#### CONSTRUCTION DETAILS

The contractor shall submit for the Engineer's approval a schedule indicating when he intends to install these markings. All marking shall be installed in accordance with the patterns indicated in the contract documents or directed by the Engineer. The work shall be progressed in the general direction of traffic. The contractor shall be responsible for cleaning the pavement to the satisfaction of the Engineer of foreign materials which may interfere with adhesion and for marking line points as necessary. The markings shall be installed in accordance with the manufacturers instructions.

The contractor shall remove markings when directed by the Engineer. The removal techniques employed shall be those recommended by the manufacturer. These markings shall be removed without a visible trace remaining after 24 hours have elapsed following removal.

#### METHOD OF MEASUREMENT

White and Yellow Construction Pavement Markings - Removable Line. Lines will be measured in linear feet along the center line of the pavement stripe and shall be based on a 4-inch wide strip. Measurement for striping with a plan width greater or less than the basic 4 inches, as shown on the plans or as directed by the Engineer, will be made by the following method:

$$\frac{\text{Plan Width of Striping (inches)} \times \text{Linear Feet}}{4 \text{ (inches)}}$$

No payment will be made for the number of linear feet of skips in the dashed line.

White and Yellow Pavement Marking - Removable Letters and Symbols - Letters and symbols will be measured by each unit applied. A unit will consist of one letter or symbol. Example: "SCHOOL" would be measured as six units.

#### BASIS OF PAYMENT

The accepted quantities of marking will be paid for at the contract unit price bid, which shall include the cost of furnishing all labor, materials and equipment to satisfactorily complete the work. The cost for maintaining and protecting traffic during the marking operations shall be included in the price bid. Quantities shall be measured for payment when the marks are satisfactorily installed and payment will be 75%; the remaining 25% shall be measured for payment following their satisfactory removal.