
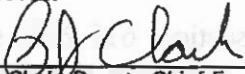


<b>TO:</b>  <p style="text-align: center;"><b>SUPERSEDED</b>  <b>BY EI 95-034 EFFECTIVE 7/27/95</b></p>		<b>ENGINEERING INSTRUCTION</b> <i>New York State Department of Transportation</i>	<b>94-037</b>  Supersedes:
<b>Title: CONSTRUCTION SIGNS - MANDATED USE OF FLUORESCENT ORANGE REFLECTIVE SHEETING ON CONSTRUCTION SIGNS</b>			
<b>Distribution:</b> <input checked="" type="checkbox"/> Main Office(30) <input checked="" type="checkbox"/> Regions(32) <input checked="" type="checkbox"/> Consultants(34)	<b>Approved:</b>  P. J. Clark/Deputy Chief Engineer Facilities Design Division		10/11/94 Date

Because of its increased brightness, especially under foggy and rainy conditions, the Department has decided to use the new Fluorescent Orange Reflective Sheeting for the Construction Signs, phased in as follows:

**Interstate, Parkway, and Expressway Projects.** The Construction Signs on these projects and their side and crossroads are to be fabricated with fluorescent orange reflective sheeting starting with the letting of January 12, 1995.

**All Other Projects.** Construction Signs shall be fabricated with the fluorescent orange reflective sheeting starting with the first letting in calendar 1996.

The change will be implemented on the Interstate, Parkway, and Expressway projects by means of the attached special specification 15619.02 Construction Signs (Fluorescent Orange Reflective Sheeting) and for early metric contracts, Item 15619.02 M. The specifications will be Main Office inserted specifications. The change will be implemented on other projects by a permanent change to the provisions for construction signs found in the Standard Specifications. At the time that this occurs, the special specifications will be generally replaced by the revised Standard Specification provisions.

To allow the Contractors an earlier opportunity to build up a supply of the new sheeting, the specifications for Construction Signs have been modified to permit the use of fluorescent orange reflective sheetings on construction signs provided there is no intermixing of sheeting types in the same series of signs.

Because there are no flexible sign sheetings available in the new fluorescent orange grade, the change will not affect "rollup" or other signs with flexible sheetings. For uniformity of appearance within a series of signs however, for example a lane closure series, intermixing of flexible orange signs and fluorescent orange signs with rigid substrates is not permitted.

For estimating, this change is expected to add \$1.00 to the square foot cost of those Construction Signs constructed with Hi-Intensity (Class B) reflective sheeting and \$3.00 per square foot to those which are presently being constructed with painted or Engineer Grade (Class A) faces.

If there are any questions, please contact Larry Brown of the Design Quality Assurance Bureau at (518) 457-4093.

9/27/94

ITEM 15619.02 CONSTRUCTION SIGNS (FLUORESCENT ORANGE REFLECTIVE SHEETING)

ITEM 15619.02 M CONSTRUCTION SIGNS (FLUORESCENT ORANGE REFLECTIVE SHEETING)

DESCRIPTION. Subsection 619-1.03 shall apply.

MATERIALS. Subsection 619-2.02 shall apply except that no painted signs will be permitted and all orange reflective sheeting applied to rigid substrates shall be one of the following listed fluorescent orange reflective sheeting materials.

Scotchlite Durable Fluorescent Diamond Grade Sheeting 3924 F/G Orange as manufactured by the 3M Company, Traffic Control Materials Division. Diamond shaped signs shall use 3924F reflective sheeting. Square or rectangular shaped signs shall use 3924G reflective sheeting.

Stimsonite Fluorescent Orange High-Performance Grade Retroreflective Sheeting No. 4380.

BASIS OF ACCEPTANCE. Fluorescent orange reflective sheetings shall be approved by the Materials Bureau. Detailed requirements and procedures for approval are available from the Materials Bureau. Approved fluorescent orange reflective sheetings will be added to the list of approved materials within this specification.

Project acceptance will be based on the appearance of the fluorescent orange reflective sheeting product withing this specification.

CONSTRUCTION DETAILS. Subsection 619-3.02 shall apply. In addition, the approved reflective sheeting shall be installed in accordance with the manufacturer's written instructions, and to the satisfaction and approval of the Engineer. Intermixing of fluorescent orange reflective sheeting signs with non-fluorescent orange flexible "roll-up" signs within the same series of signs shall not be allowed.

Signs shall be positioned to minimize specular glare. Sign panels shall be angled away from traffic such that the angle measured between the axis of approaching traffic and the sign face shall be 93 degrees both horizontally and vertically. On curves the 93 degrees shall be measured from a point tangent to the curve opposite the sign location.

METHOD OF MEASUREMENT. Subsection 619-4.02 shall apply.

BASIS OF PAYMENT. Subsection 619-5.02 shall apply.