
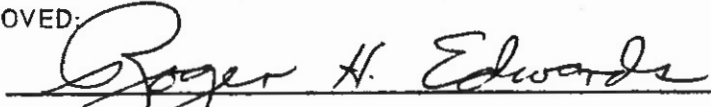


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TO: Director, Preliminary Plan Review Bureau  <b>SUPERSEDED BY EI 75-062</b> <b>EFFECTIVE 11/13/1975</b>	 <b>ENGINEERING INSTRUCTION</b> NEW YORK STATE DEPARTMENT OF TRANSPORTATION  SUBJECT: SECTION 619. STANDARD SHEETS AND SPECIFICATIONS  Subject Code: 7.27-2-619
Distribution: <input checked="" type="checkbox"/> Main Office <input checked="" type="checkbox"/> Regions <input type="checkbox"/> Special	Code: <u>E.I. 75-7</u> Date: <u>January 16, 1975</u>
APPROVED: 	Supersedes: EI 73-006 DATE 1/18/73; MODIFIES EI 73-059 DATE 8/16/73; EI 73-083 DATE 11/19/73

We are submitting under separate cover transparencies and prints of Standard Sheets 619-1 and 619-2. These Standard Sheets revise the Standard Sheets for Maintenance and Protection of Traffic and establish Statewide standards for Temporary Traffic Signals. Item 15619.13 Temporary Traffic Signals has been established.

Effective immediately, Standard Sheets 645-3 and 645-4; TRAFFIC SIGNS FOR RESTRICTED HIGHWAYS and Standard Sheet 645-6; TRAFFIC SIGNS FOR SPECIALTY CONTRACTS NON-RESTRICTED HIGHWAYS along with the Main Office special note "NON-RESTRICTED HIGHWAYS" are discontinued. The specification requirements on these standard sheets are being made a part of the specifications.

The Design Engineer shall anticipate the sequence of operations for each project. The special cases or situations arising that involve Construction Signs and/or Temporary Traffic Signals included in Appendix 7 of the N.Y.S. MUTCD or Standard Sheets shall be designed into the project. "Maintenance and Protection of Traffic Detail" sheets delineating the suggested procedures shall be included in the Contract Drawings. Particular stress should be given for providing two way traffic wherever possible. The following notes referring to Watchmen Service Requirements and Restricted Highway Classification are to be placed on the Title Sheet of the Contract Drawings.

- (1) NOTE: The Contractor will be required to furnish Watchmen Service under Item 15619.12 in accordance with Requirement \_\_\_\_\_ of the Standard Specifications.
- (2) NOTE: The Contractors attention is directed to the fact that this highway or highways will be designated as a (Restricted Highway or Non-Restricted Highway) under this contract."

The status of the project as a restricted or non-restricted highway shall be determined in accordance with EI 73-83 dated November 19, 1973 and EI 73-59 dated August 16, 1973.

Due to continuing difficulties with Section 619 - Maintenance and Protection of Traffic, Subsection 619-5, "Basis of Payment, General," several modifications have been made to the basis of payment for "Basic Maintenance and Protection of Traffic." These include changing the unit of payment from Calendar Day to Lump Sum. Also the "Liquidated Damages" portion of the specification has been clarified to state that no payment will be made under Basic Maintenance and Protection of Traffic for each Calendar Day of non-conformance and in

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addition liquidated damages will be assessed for each day of non-conformance.

Attached herewith is a copy of the specifications for the Maintenance and Protection of Traffic items. This includes the revised item 15619.0102 and the new item 15619.13. The Main Office began using this edition with the February 1975 letting.

JH:HM  
Attachment

15619.0102 BASIC MAINTENANCE AND PROTECTION OF TRAFFIC  
15619.02 CONSTRUCTION SIGNS  
15619.03 DELINEATION & GUIDING DEVICES FOR CONSTRUCTION  
15619.04 CONSTRUCTION BARRICADES  
15619.10 MAILBOXES  
15619.12 WATCHMEN SERVICE  
15619.13 TEMPORARY TRAFFIC SIGNALS

DESCRIPTION. All the provisions of Section 619 - Maintenance and Protection of Traffic of the Standard Specifications of January 2, 1973 shall apply except as modified below:

Page 392

Delete the entire Subsection 619-1.02D "Pedestrian Traffic," and replace with the following:

D. Pedestrian Traffic. The Contractor shall provide adequate protection for pedestrian traffic during all phases of construction. This includes all traffic control devices installed in a manner satisfactory to the Engineer.

Page 393

Delete Subsection 619-1.03 "CONSTRUCTION SIGNS AND BARRICADES," and replace it with the following:

619-1.03 CONSTRUCTION SIGNS AND BARRICADES. The Contractor shall furnish, install, move, remove and maintain signs and barricades in accordance with the appropriate traffic control schemes shown in Appendix 7 of the New York State Manual of Traffic Control Devices, as shown in the plans or as ordered by the Engineer.

Page 393

Under 619-1.06 Watchmen Service, in the second line, change the word "... Requirements ..." to "... Requirement ...".

Page 394

After Subsection 619-1.10 "Duration of Contract," add the following Subsection:

619-1.11 Temporary Traffic Signals. The Contractor shall furnish, install, move, remove and maintain temporary traffic signals and necessary components where indicated in the plans or as directed by the Engineer. Location and spacing of all traffic control devices required to properly move vehicular traffic through the work area shall be as indicated in the plans or Standard Sheets.

Page 394

After Subsection 619-2.03 "Signs, Delineators, Barricades and Markings," add the following Subsections:

619-2.04 CONSTRUCTION SIGNS. Sign panels may be made of aluminum or plywood. When reflectorization is required by the New York State Manual of Uniform Traffic Control Devices, the sign face background shall be made of sheet reflective material conforming to the requirements of the Material Specification, Section 730-0502 REFLECTIVE SHEETING (Class B). Where reflectorization is not required by the NYSMUTCD, the sign face background shall be an exterior type paint conforming to the appropriate Highway Color Tolerance Chart PR Colors #1-6.

Black characters shall meet the requirements of Section 730-13, REFLECTORIZED SHEETING SIGN CHARACTERS (Type V) of the Standard Specifications.

White characters shall meet the requirements of either Section 730-12, REFLECTORIZED SHEETING SIGN CHARACTERS (Type IV) or Section 730-13, REFLECTORIZED SHEETING SIGN CHARACTERS (Type V).

619-2.05 Temporary Traffic Signals. Temporary traffic signal equipment shall meet the requirements of Section 724 of the Standard Specifications except as otherwise shown in the plans, applicable Standard Sheets and the New York State Manual of Uniform Traffic Control Devices.

Page 396

Under Subsection 619-3.02, "CONSTRUCTION SIGNS." Delete the first sentence in the Second paragraph beginning with "All signs shall be ... and ending with ... effective day and night." Replace this sentence with the following sentence:

All signs shall be kept clean, mounted at the required height on adequate supports and placed in proper position and alignment so as to give maximum visibility both night and day. All wood supports and backs of plywood sign panels shall be painted with two coats of white paint.

Page 396

Under Subsection 619-3.02 after the second paragraph on page 396 beginning with "All signs shall be ... and ending with ... shown on the Standard Sheets.", add the following paragraph:

All signs shall be the property of the Contractor and shall be maintained in good condition for the duration of the contract and removed from the work site when the contract is accepted.

Page 399

Under 619-3.07 Watchmen Service, in the second line, delete the word "... continuously ...".

619-5 BASIS OF PAYMENT, GENERAL.

No payment will be made under Basic Maintenance & Protection of Traffic for each calendar day during which traffic is not maintained and protected adequately and safely in accordance with the specification requirements of this section including but not limited to Basic Maintenance and Protection of Traffic, Construction Signs, Delineation and Guiding Devices, Construction Barricades, Lighting for Construction Barricades, Temporary Structures and Approaches, Watchmen Service, Mailboxes and Temporary Traffic Signals.

The amount of such calendar day non-payment will be determined by dividing the lump sum amount bid for Basic Maintenance and Protection of Traffic by the number of calendar days between the date the Contractor commences work and the date of completion as designated in the proposal, without regard to any extension of time.

In addition, for each 24 hours or part thereof, of unsatisfactory work violating the required provisions under Subsection Basic Maintenance and Protection of Traffic, liquidated damages will be assessed as follows:

For Contracts with watchmen requirement A, \$300  
For Contracts with watchmen requirement B, \$200  
For Contracts with watchmen requirement C, \$100

If the Contractor fails to adequately conform to the provisions required under Construction Signs, Delineation and Guiding Devices, Construction Barricades, Lighting for Construction Barricades, Temporary Structures and Approaches, Watchmen Service, Mailboxes and Temporary Traffic Signals, to the degree that such failure is deemed by the Engineer to adversely affect the maintenance and protection of traffic, the above liquidated damages will be assessed in addition to any payment deductions for inadequate work as specified herein. The assessment of liquidated damages will not exceed the above amount per 24 hours, regardless of the number of violations.

If the Contractor fails to maintain and protect traffic adequately and safely for a period of 24 hours, the Engineer shall correct the adverse conditions by any means he deems appropriate, and shall deduct the cost of the corrective work from any monies due the Contractor. The cost of this work shall be in addition to the liquidated damages listed above.

However, where major nonconformance with the requirements of this specification is noted by the Engineer, and prompt Contractor compliance is deemed not to be obtainable, all work may be stopped by direct order of the Engineer, regardless of whether corrections

are made by the Engineer as stated in the paragraph above.

When the Contractor is authorized by the Regional Director to provide a lesser requirement of watchmen service and he fails to provide adequate maintenance and protection of traffic, the amount of liquidated damages shall be that specified for the original requirement stated in the proposal or as shown on the plans.

#### 619-5.01 BASIC MAINTANANCE AND PROTECTION OF TRAFFIC.

The lump sum price bid for Basic Maintenance and Protection of Traffic shall include all equipment, materials and labor necessary to adequately and safely maintain and protect traffic, except as provided for in separate payment items in the proposal. In the event the proposal does not include a separate item of payment for Temporary Traffic Signals, the price bid for Basic Maintenance and Protection of Traffic shall include the cost of all labor, materials and equipment necessary to furnish, install, move, remove and maintain any needed temporary signals and components for the required duration of the work, together with all costs of electric power necessary to operate the signals and all costs of furnishing said power.

Payments will be made for this item in proportion to the total amount of work completed in any one estimate period, as determined by the Engineer, less any deduction for which the Contractor fails to maintain and protect traffic adequately and safely in accordance with the requirements of this specification.

Page 403

Delete 619-5.02 Construction Signs and Substitute the following:

619-5.02 Construction Signs. The lump sum bid shall include all material, equipment and labor necessary to erect, remove, relocate, protect, maintain or store any sign required to properly sign the contract. This item is to cover payment for all signs which are found necessary for the proper performance of the work regardless of whether they are actually shown in the contract plans.

The work required to remove and store existing markers and delineators and their supports shall be included in the price bid for this item.

Payment will be made at the lump sum price bid as follows:

Fifty (50) percent of the lump sum price bid shall be paid when ten (10%) of the contract work has been completed. The remaining fifty(50) percent shall be paid proportionally in accordance with the total contract work completed.

Page 401

After Subsection 619-3.08 "Mailboxes," add the following Subsection:

619-3.09 Temporary Traffic Signals. The traffic signal system shall be constructed in such a manner that interference with and inconvenience to the traveling public is kept to a minimum. The contractor shall maintain in proper operation, all temporary signals used for Maintenance and Protection of Traffic until approved removal. He shall be responsible for their 24-hours operation except for reasonable shutdown during relocation and transfer operations.

Page 401

Delete Subsection 619-3.09 "Opening Highway to Traffic Prior to Contract Acceptance," in its entirety. Replace with the following:

619-3.10 Opening Highway to Traffic Prior to Contract Acceptance. The Construction Details specified in §§ 619-3.01 through 619-3.09 shall apply as required.

Page 401

Delete 619-4.01 Basic Maintenance and Protection of Traffic and substitute the following:

619-4.01 Basic Maintenance and Protection of Traffic. Payment for the work of Maintenance and Protection of Traffic will be made on a lump sum basis.

Page 401

Delete the provisions of ADDENDUM NO. 1, Page 401 (1) 2/7/74 pertaining to 619-4.03 Delineation and Guiding Devices for Construction. Substitute the following:

"Delineation and guiding devices will be computed for payment by the number of stations (hundreds of feet) of delineation measured along the roadway centerline, regardless of the number of lines of delineation required within the same length of roadway. No quantity shall be computed for bridges, ramps, intersecting pavement or service roads, except when indicated on the plans or in the proposal. The quantity for divided roadways, where the distance between the inside edges of adjacent roadways is equal to or exceeds 36 feet, shall be computed lengths along the centerline of each roadway. The quantity for divided roadways where the distance between inside edges of adjacent roadways is less than 36 feet, shall be computed along the centerline between roadways.

Any succession of five or more continuous and adjacent delineated or guiding devices properly placed and spaced in accordance with the New York State Manual of Uniform Traffic Control Devices and the specifications or as directed by the Engineer, shall constitute a line of delineation, provided such spacing does not exceed two hundred (200) feet. Temporary pavement markings (striping) will be considered lines of delineation for continuous lengths of 100 feet or more."

Page 401

Under 619-4.04 Construction Barricades delete the first sentence and substitute the following as the first sentence:

"Barricades will be computed for payment by the number of stations (hundreds of feet) measured horizontally along the face of the barricade erected in substantially one location."

Page 402

Delete 619-4.07 Watchmen Service and substitute the following:

619-4.07 Watchmen Service. Watchmen Service will be computed for payment by the patrol for the number of patrols approved by the Engineer and in accordance with either Requirement A, B, or C as designated on the plans or in the proposal. A patrol shall be defined as a complete coverage of the contract from limit to limit in such a manner that the watchmen can observe any vehicle, person, or condition of construction on the contract site. A patrol shall include "punching in" at all the designated points approved by the Engineer.

An occasional missed "punch" will not be considered unsatisfactory work performance under this item unless the Engineer determines that a pattern of irresponsibility has or is developing. The Engineer's determination shall govern in ascertaining reasonable and satisfactory work performance under this provision.

Page 402

Delete 619-4.08 Mailboxes and Substitute the following:

"Mailboxes will be computed for payment on the basis of each mailbox moved or replaced. Where multiple mailboxes are installed on a single post, payment shall be based upon the number of mailboxes so installed."

Page 402

After Subsection 619-4.09 "Opening Highway to Traffic Prior to Contract Acceptance, " add the following Subsection:

619-4.10 Temporary Traffic Signals. Payment for Temporary Traffic Signals will be made on a lump sum basis. In the event that the signals fail to function properly on any day, the Contractor shall be assessed liquidated damages in accordance with the provisions of Subsection 619-5 Basis of Payment, General.

Page 402

Delete 619-5.01 Basic Maintenance and Protection of Traffic and Substitute the following:

Page 403

Delete the provisions of ADDENDUM NO. 1 Page 403 (1) 2/7/74 pertaining to 619-5.03 Delineation and Guiding Devices for Construction. Substitute the following:

619-5.03 Delineation and Guiding Devices for Construction. The unit price bid shall include all material, equipment, and labor necessary to install, move, and remove such devices. Permanent delineators or striping when installed in final locations will not be paid for under this item.

Payment will not be made more than once for any line of delineation for all construction operations up to and including the subbase and similarly not more than once for paving operations including shoulders.

Page 404

Delete 619-5.07, Watchmen Service, and substitute the following:

619-5.07 Watchmen Service. The unit price bid per patrol shall include all watchmen, labor, supervision, transportation, communication, and any equipment and materials necessary to carry out the work in either Requirement A, B, or C or as specified.

A patrol shall be considered one patrol regardless of the number of watchmen necessary to satisfactorily complete the work.

Page 405

After Subsection 619-5.11 "Damage," add the following Subsection:

619-5.12 Temporary Traffic Signals. The lump sum bid for this item shall include the cost of all labor, materials and equipment necessary to furnish, install, move, remove and maintain the signals and components for the required duration of the work except when separate and appropriate items for the integral parts and incidentals are included in the Contract Documents. The bid price shall include the cost of electric power necessary to operate the signals until their approved removal.

Payment will be made at the lump sum price bid as follows:

Sixty (60) percent when the signals are installed and are in proper operation.

Forty (40) percent when all necessary work for this item is completed.