

ITEM 0263801

TEMPORARY SIGNALIZATION

DESCRIPTION

This item shall consist of furnishing, installing, maintaining and repairing a temporary traffic signal system to provide the timing and operation as shown on the Plans or as directed by the Engineer. It shall include, but is not limited to, any temporary wiring, span and tether wire, signal heads, relamping, mast arms, poles, traffic signal cables, junction boxes, foundations, conduit, detectors, controllers and timing sequences, cabinets, associated highway lighting units, electric services, necessary hardware, and any other incidentals deemed required. Electric service for the temporary system shall be obtained from the utility company by the Contractor.

REFERENCED ITEMS

None

REQUIRED SUBMITTALS

Temporary traffic signal plan, signed and sealed by Professional Engineer registered in the State of Connecticut.

Signal inspection, failure, malfunction and knockdown reports.

As-built drawings.

Contractor's emergency contact list of names and telephone numbers.

MATERIALS

None

CONSTRUCTION METHODS

As-built drawings of each signal change shall be kept by the Contractor and a copy shall be provided in each controller. Copies of each shall be provided to the Engineer before final payment for this item. The Contractor shall also be responsible for payment of electric current cost for new temporary electric service and removal of the temporary traffic signal system and for repair of all damage caused to the temporary signal by third parties including, but not limited to, vehicular knockdown. All material supplied by the Contractor for the temporary traffic signal system shall remain the property of the Contractor.

If the Contractor chooses to install a temporary traffic signal system or the design is not provided in the Contract Documents, then the Contractor shall submit a temporary traffic signal plan, before installation, for review and approval. The plan shall include complete structural design calculations according to current AASHTO Standards, stamped by a Professional Engineer licensed to practice in the State of Connecticut.

Maintenance responsibility of a temporary traffic signal system shall be from the time the Contractor commences work on the temporary traffic signal system until its removal. Should the Contractor cause any damage to the temporary traffic signal installation or should any portion of the temporary traffic signal system fail or malfunction for any reasons, it shall be the Contractor's responsibility to affect immediate repairs and return the traffic signal to normal signal operation. The Contractor shall make no claim against the State for the costs of repairs and/or maintenance if the traffic signal system is damaged by a third party or vehicular knockdown and repairs or maintenance is required as a result of this. Work to repair the traffic signal must begin within a maximum of two hours after the Contractor is notified of damage or malfunction by the City of Hartford. Workmen assigned to such repair shall work continuously until the traffic signal resumes normal signal operation.

In addition, if the Contractor fails to respond to a failure or knockdown within two hours after notification, or does not begin work within the two hour limit specified, or does not continue to work until the traffic signal is back into normal signal operation, in the interests of safety, the City will respond with its own forces to restore normal signal operation. If the City responds with its own forces to affect repairs at the intersection(s), the Contractor agrees to pay the City a sum of \$7,500 for costs of mobilizing its forces and equipment. In addition, the Contractor shall pay the City its actual cost of material used to affect the repair, and shall pay the actual costs of traffic protection to the agency providing the police, etc. This amount may be deducted from any money due and owing the Contractor by the City. Any such emergency work performed by City forces will not in any way diminish the Contractors' liabilities as described hereunder.

All material, labor, equipment fees, energy costs, and all else necessary for the Contractor to maintain the traffic signal in operation shall be at the Contractors expense.

After the temporary traffic signal system is placed into operation, the Contractor shall be responsible for inspecting the temporary traffic signal system every two months. The Contractor shall properly document the time the temporary traffic signal system is placed into operation, any modification to the temporary traffic signal system, and the results of two-month inspection. One copy of the completed report shall be provided to the Engineer and a second copy placed in each controller cabinet.

If the Contractor responds to a system failure or malfunction or vehicle knockdown, the Contractor shall properly document such incident in a report. A copy of the report shall be provided to the Engineer and a second copy placed in each controller cabinet after the form is filled out by the Contractor.

Copies of the as-built drawings and reports shall be placed in a plastic pocket mounted inside the cabinet door of each controller cabinet.

Before energization of the temporary traffic signal system the Contractor shall provide the Engineer and the Superintendent of the City of Hartford, Signal Maintenance Division with the names and telephone numbers of the Contractor's personnel to be contacted should a failure occur. These individuals shall be familiar with traffic signal construction and operation. The Contractor agrees to be fully liable for the proper installation and operation of the temporary traffic signal system and agree to defend, indemnify, and otherwise save harmless the City, its agencies, departments, bureaus, boards, officials, and employees for any and all claims, demands, suits, recoveries, judgments or actions at law whether for personal injury, property damage or liabilities of any other kind to the fullest extent permitted by law, including the cost of defense which arise from acts or omissions, whether negligent or not, of the Contractor or its agents, employees, servants, subcontractors, suppliers, or others working for the Contractor in the construction and/or maintenance of the traffic signal system

METHOD OF MEASUREMENT

Temporary signalization shall be paid for at the lump sum price.

BASIS OF PAYMENT

This work shall be paid for at the lump sum price for "TEMPORARY SIGNALIZATION" complete and operational, which price shall include temporary wiring, span and tether wire, signal heads, relamping, mast arms, poles, traffic signal cables, junction boxes, foundations, conduit, detectors, controllers and timing sequences, cabinets, associated highway lighting units, electric services, necessary hardware, and any other items incidental to the completion of the work.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0263801	Temporary Signalization	LS