

ITEM 02202.11 M - REMOVE, STORE AND RESET EXISTING BRIDGE SUPERSTRUCTURE

Description

This work shall consist of the removal, storage and resetting of an existing bridge superstructure.

Materials

Not specified.

Construction Details

A. General

The existing superstructure removal, storage, and resetting operation shall be in conformance with the following:

The Contractor shall engage the services of a New York State Licensed Professional Engineer to prepare the necessary design, details, and methods for the removal, storage, and resetting procedure. The Contractor shall furnish working drawings documenting these details to the Engineer and the Regional Structures Engineer for approval a minimum of 30 days prior to the commencement of work. The drawings shall bear the signature and stamp of the New York State Licensed Professional Engineer and shall include, but not be limited to, the following:

- A. Details of a complete shoring system if, and when, necessary.
- B. Calculated lifting forces.
- C. Lift point locations.
- D. Details of all equipment to be used including cranes, slings, clamps, jacks, cribbing, etc.
- E. Type and grade of all materials.
- F. Crane placement.
- G. All disconnections, reconnections and adjustments necessary to remove, store, and reset the entire bridge superstructure.

All design and details shall be in accordance with the current edition of the New York State Department of Transportation's Standard Specifications for Highway Bridges and the current New York State Steel Construction Manual unless specified otherwise.

B. Method

The Contractor has the option to remove, store, and reset the existing bridge superstructure in a workman-like manner by any method which is suitable for this project and is approved by the State.

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The removal, storage, and resetting procedure shall be conducted so that all steel will be kept clean and free of damage by the operation. Any members of the superstructure whose paint is damaged by the operations of the Contractor shall be repaired, in accordance with the New York State Department of Transportation's Standard Specifications (current edition), at the expense of the Contractor. Structural members shall be suitably supported and braced so that they will not be subjected to stresses in excess of the Operation Rating Allowable Stresses, as defined in AASHTO Manual For Condition Evaluation of Bridges (current edition).

Components of the steel superstructure shall be stored, at a location approved by the Engineer, above the ground surface on platforms, skids or other supports. Beams shall be handled and stored with their webs in a vertical position and shall be adequately shored, braced or clamped to resist all lateral forces which may occur. The Contractor shall supply all materials necessary to adequately store the components.

All of the component parts of the superstructure as well as any roadway or bridge appurtenances which are to remain in place including, but not limited to, sidewalks, curbs, guiderailing, approach pavement, or existing abutments, which are damaged as a result of the Contractor's operations shall be repaired or replaced at the expense of the Contractor. The Engineer shall be the judge as to whether the components or appurtenances have been damaged and will be repaired or replaced.

All materials accumulated as a result of the contractor's operations shall be removed from the site and properly disposed of by the Contractor.

Method of Measurement

Payments for the item Remove, Store and Reset Existing Bridge Superstructure will be made at the lump sum price bid.

Basis of Payment

The lump sum price bid for each structure shall include the cost of furnishing all labor, engineering, materials and equipment, including excavation, necessary to complete the work in a satisfactory manner.