

DESCRIPTION

This work shall consist of furnishing, installing, maintaining, and removing Temporary Bridge Deck Support for the deck slab overhangs at construction stage lines in accordance with the contract documents or as directed by the Engineer.

MATERIALS

The provisions of Section 564 of the New York State Standard Specifications shall apply with the following provision: Used steel shall be allowed.

CONSTRUCTION DETAILS

1. **GENERAL** - During the respective construction stages, adequate temporary support, connection and bracing shall be provided to support the cantilevered deck slab to permit the construction of the bridge while maintaining traffic. Temporary bridge deck supports shall be required to support cantilevered portions of both the new and existing bridge decks.
2. **DESIGN & WORKING DRAWINGS** - The Contractor shall submit working drawings and calculations to the Engineer for review and approval of the temporary bridge deck supports. The working drawings shall include a sequence of operations describing how the temporary bridge deck supports will be installed and ultimately removed.

The Contractor shall engage the services of a registered New York State Licensed Professional Engineer (PE) to design and detail the temporary bridge deck supports. All design and details shall be in conformance with the current *NYS DOT Standard Specifications for Highway Bridges* and the current New York State Steel Construction Manual (SCM).

The Contractor shall construct the temporary bridge deck supports for dead load, construction loads, and MS-18 live load. The support system shall provide adequate strength and rigidity to support the deck cantilevers resulting from the construction staging without overload or damage to the deck. For design, live load wheel lines shall be located 305 mm from the face of temporary barrier or edge of slab as applicable. For purposes of design of the temporary supports the existing slab overhang shall be assumed to be a simple span between the temporary support and the nearest adjacent stringer.

3. **CONNECTION DETAILS** - Welded connections to new or existing members to remain are not permitted. Drilled holes into the bottom flange of new or existing girders to remain are not permitted. Any field drilling of holes in members shall be in accordance with the Contractor's working drawings. No flame cutting or flame drilling will be permitted in existing or new girders. All damage to existing steel caused by the field drilling, as determined by the Engineer, shall be repaired by the Contractor at no cost to the State in a manner satisfactory to the Engineer. All temporary holes shall be filled with high strength bolts after removal of the assembly and prior to final field painting.

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4. **INSTALLING STRUCTURAL STEEL** - Connect new steel shapes to existing steel stringers in accordance with the requirements of the SCM, and the details shown on the plans and working drawings. The temporary bridge deck support shall not be removed prior to 28 days after placement of the adjacent deck slab.

METHOD OF MEASUREMENT

This work will be measured as the number of meters of temporary bridge deck support satisfactorily furnished, installed, maintained, and removed.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work. The cost for the treatment, handling and disposal of paint removal waste material will be paid for under a separate item.