

HANDLING, TRANSPORT, AND RE-ERECTION OF TRUSS BRIDGE SUPERSTRUCTURE

****From Hartford (Wilder) STP 1444(35)**

- xx. DESCRIPTION. This work shall consist of all necessary handling and transporting of a truss bridge superstructure from its current location to a work location, and subsequent re-erection of the rehabilitated superstructure at the truss bridge site. As directed by the Engineer, superstructure components moved to a work location shall be removed and re-erected as major components, such as whole trusses and floor system.
- xx. MATERIALS. New steel used in the work shall conform to Section 506 and the AASHTO *Standard Specifications for Highway Bridges*. Material certifications need not be furnished for temporary steel materials.
- xx. GENERAL. The trusses may be temporarily supported or braced during the handling, transport, and re-erection/assembly of the truss bridge superstructure until it is sufficiently stable to warrant temporary support removal.

All temporary supports shall be removed prior to opening the bridge to vehicular traffic.

Attaching temporary supports or shoring measures by a means which will permanently alter or otherwise adversely affect members of the truss, including but not limited to drilling or cutting, will not be permitted.

- xx. SUBMITTALS. Construction Drawings with associated details, procedures, and calculations for blocking, bracing, handling, transporting, and re-erecting the superstructure shall be prepared, stamped, and signed by a Professional Engineer (Structural or Civil) and shall be submitted to the Vtrans Structures Engineer for documentation purposes only in accordance with Subsection 105.03. Construction Drawings shall be submitted at least four weeks prior to the anticipated start of the work. No work represented by the Construction Drawings shall commence until the Construction Drawings have been verified to conform to the design criteria.

The design and drawings shall conform to the latest edition of the AASHTO *LRFD Bridge Design Specifications* and AASHTO *LRFD Bridge Construction Specifications*. The loads shall be based on the Contractor's equipment and methods, and the temporary and final stresses in the members shall remain within the limits specified in the AASHTO *LRFD Bridge Design Specifications*.

The work location shall be documented in the submittal and shall be within an 80 kilometer (50 mile) radius of the project location. Work locations outside an 80 kilometer (50 mile) radius may be approved by the Engineer if inspection staff are available near the work location.

- xx. CONSTRUCTION REQUIREMENTS. The Contractor shall be responsible for the strength, capacity, and performance of the construction methods(s) employed.
- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Handling, Transport, and Re-erection of Truss Bridge Superstructure) to be

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measured for payment will be on a lump sum basis in the complete and accepted work.

- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Handling, Transport, and Re-erection of Truss Bridge Superstructure) will be paid for at the Contract lump sum price. Payment will be full compensation for preparing and submitting Construction Drawings, details, procedures, and calculations as specified; for performing the work specified, including all liability for the structure being handled, transported, re-erected, blocked, and braced; and for furnishing all materials, labor, tools, equipment, and incidentals necessary to complete the work.

Partial payments will be made as follows:

- (a) An initial payment of 10% of the lump sum price will be paid upon approval of Construction Drawings.
- (b) A second payment of 40% of the lump sum price will be paid upon transport of the superstructure to the work site.
- (c) A third payment of 40% of the lump sum price will be paid upon re-erection of the superstructure at the original site.
- (d) The remaining 10% of the lump sum price will be paid when all work for this item is complete to the satisfaction of the Engineer.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.645 Special Provision (Handling, Transport, and Re-erection of Truss Bridge Superstructure)	Lump Sum