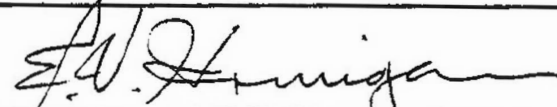


TO:		ENGINEERING INSTRUCTION	
SUPERSEDED BY EI 82-054 EFFECTIVE 8/13/82		NEW YORK STATE DEPARTMENT OF TRANSPORTATION	
		SUBJECT: SPECIFICATION FOR STEEL BRIDGE RAILING REPLACEMENT CLAMP	
		Subject Code: 7.35-2	
Distribution:		Code: <u>E.I. 82-35</u>	
<input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Regions <input type="checkbox"/> Special		Date: <u>MAY 17, 1982</u>	
APPROVED:		Supersedes:	
 E. V. Hourigan, Deputy Chief Engineer (Structures)			

Attached is Specification No. 15587.05 - "STEEL BRIDGE RAILING REPLACEMENT CLAMP" which is to be used in conjunction with rail clamp replacement work described in E.I. 82-13. This item will be stocked as a Main Office insert.

E.I. 82-13 distributed Detail No. 2 which contained the replacement clamp details and associated notes. Much of the information contained in the notes in Detail No. 2 was incorporated into the new Specification. In order to eliminate possible future problems associated with duplication of information, we revised Detail No. 2 removing the duplicated information contained in the Specification. The revised detail sheet is called Detail No. 2R and is attached to this E.I.. Detail No. 2R supersedes Detail No. 2, therefore, Detail No. 2 must be removed from your active files upon receipt of this E.I..

PREL.	FINAL
DESIGN	LANDSCAPE
RECEIVED FACILITIES DESIGN DIVISION JUN 09 1982	
CIRC.	FILE



Attachment

ITEM NO. 15587.05 - STEEL BRIDGE RAILING REPLACEMENT CLAMP

Description - This work shall consist of removal and disposal of existing bridge railing clamps and installation of replacement clamps.

Materials - Materials used for this work shall conform to the requirements listed below:

- A. Rail Clamp - ASTM Designation A500 Grade B; A-36; A-588; A-441; or A-572 Grade 50.
- B. Bolts, Nuts, and Washers - ASTM Designation A-325, Type I or Type III.
- C. All parts of the clamp and connection assembly shall be galvanized after fabrication in accordance with Material Specification 719-01.
- D. All bolts shall have a Class 2A thread fit prior to galvanizing. Nuts to have standard oversize tap to allow for galvanizing.
- E. All damage to the galvanizing, either on the clamp, connection assembly, or tube, shall be repaired according to the provisions of Material Specification 719-01.

Construction Details - Replacement clamps shall be new. They shall be the size and dimensions shown on the Contract Plans.

The existing bridge rail clamp shall be carefully removed in a manner satisfactory to the Engineer so as not to damage hardware that is to remain.

All welding shall conform to the requirements of the N.Y.S. Department of Transportation's Steel Construction Manual.

All components of the existing bridge railing system which are damaged due to the Contractor's operation shall be repaired or replaced to the satisfaction of the Engineer at no cost to the State. Such damaged material shall be repaired or replaced according to the provisions of Section 568-"Bridge And Culvert Railing".

At no time shall the bridge rail tubes be removed from the posts unless maintenance and protection of traffic, acceptable to the Engineer, is provided.

Upon the completion of clamp replacement work, the bridge railing shall conform to the original line and elevation unless otherwise ordered by the Engineer.

During non-working hours, all bridge railing tube shall be securely fastened to the existing posts in a manner acceptable to the Engineer.

Method of Measurement - Measurement will be made as the number of railing clamps replaced. No deduction shall be made for missing clamps.

Basis of Payment - The unit price bid per clamp shall include the cost of furnishing all labor, materials, and equipment necessary to complete the work.

All maintenance and protection of traffic work shall be paid for under its' respective item.

