


TO: SUPERSEDED BY EB 97-020 EFFECTIVE 4/4/97	<h1>ENGINEERING INSTRUCTION</h1> <p>NEW YORK STATE DEPARTMENT OF TRANSPORTATION</p>	
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APPROVED:  <u>ARUN M. SZROBLE, Deputy Chief Engineer (Structures)</u>	Date: <u>3/4/92</u>	Supersedes:

SUBJECT: STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGE DESIGN -- LIVE LOAD CRITERIA

Subject Code: 7.35-1

This Engineering Instruction establishes HS-25 as the Department's Design Live Load For Bridges.

This results in part from an ongoing evaluation of ways to improve the durability of bridges. Based on a comparative analysis of simple span prestressed and steel bridges, the impact of the proposed design Live Load increase averages less than 1% of the bridge cost.

All new and replacement highway bridges shall be designed to carry the HS-25 Live Loading. Existing substructures shall not be upgraded solely to accommodate this live load criteria.

This Live Load criteria revises, in part, the policy established on February 7, 1986 - "NYS DOT GEOMETRIC DESIGN POLICY FOR BRIDGES: SECTION VIII LIVE LOADING REQUIREMENTS."

Questions regarding this Engineering Instruction should be directed to the Structures Design And Construction Division (Structures Design Section - (518) 485-7256).

In order to implement the above, the following changes to the Design Specifications should be made:

Article 3.7.4 Minimum Loading:
 Delete: "HS20-44" and replace it with: "HS25".

Add the following to Figure 3.7.6B Lane Loading:
 For HS25 loading the concentrated load for moment shall be 22,500 lbs. and for shear 32,500 lbs. The uniform load for HS25 shall be 800 lbs. per linear foot of lane load.

Add the following to Figure 3.7.7A Standard HS Trucks:
 For HS25 Loading, the front axle load shall be 10,000 and the rear two axles shall be 40,000 lbs. each.

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Page NY-33:

Delete the contents of Page NY-33, except the last Footnote (X), which shall be applicable to Group "X" under Load Factor in Table 3.22.1A shown on Page 33.

Page NY-33A:

Delete the contents of Page NY-33A.

Page NY-162:

Under Article 10.42 SCOPE; in the Second Paragraph, delete "acceptable" and replace it with "preferred". Under Article 10.43 LOADS; delete the change shown to Article 10.43.3.

Page NY-170:

Delete all changes to Article 10.50.1, Article 10.50.1.2, Article 10.50.1.2.2, and Article 10.50.1.2.3.

Page NY-176:

Delete the contents of Page NY-176.

The changes will be included in the next issuance of the NYSDOT Standard Specifications for Highway Bridges.

This E.I. is effective immediately for all projects which have not already received Design Approval and/or an Approved Preliminary. Exceptions will require written approval by the DCES.

DBB:GD
4.17