



## *Document Change Announcement*

*2007 Design Manual*

**DCA2011-DM-12**

**DATE: November 17, 2011**

**Subject: Revision to Subsections 2.2.2 of the Design Manual**

### Description of Change

Provides direction to the design engineer regarding pier column reinforcement detailing beyond the AASHTO LRFD code.

### Instructions to Designers and Consultants

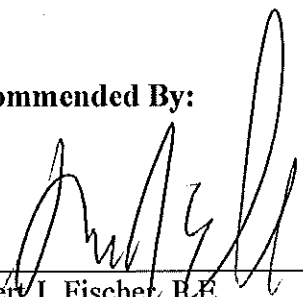
Effective immediately, the revisions contained in this announcement shall be applied to all projects that have not reached Phase C of design. Contact your NJTA Project Manager for instructions. Attached revision is noted in italics.

Designers may access these revisions in the NJTA Design Manual, which is available on the Authority's Web Page: <http://www.state.nj.us/turnpike/nj-buss.htm>.

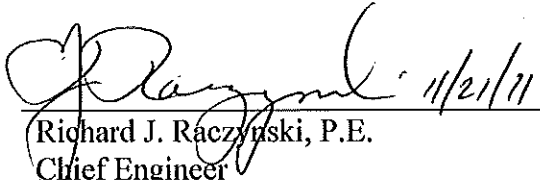
### Information for In-House Staff

The revisions have been incorporated into the Design Manual, which is available on the S drive @ S:\Project Files\Design-Procedure Manual. Please distribute the information to your respective Project Managers and have them direct their consultants appropriately.

**Recommended By:**

  
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**Approved By:**

  
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Chief Engineer

cc: Senior Staff Engineering, Operations & Maintenance Departments, All Prequalified Consultant Firms, File

# *New Jersey Turnpike Authority*

## DOCUMENT UPDATE REQUEST

Forward to Assistant Chief Engineer, Design

<b>Initiator</b>	Rich Schaefer	<b>Submittal Date</b>	11/15/11
<b>Firm</b>	HNTB Corporation	<b>Telephone</b>	973-237-1650

### Document (check one)

- Procedures Manual
- Design Manual
- Sample Plans
- Standard Drawings
- Standard Specifications

### Description of Change

In section 2.2.2, the following is added as the last sentence of the first paragraph of modifications to AAASHTO LRFD BDS section 3.6.5.2

Pier columns that fall within the 30' clear zone shall have the designed seismic confinement reinforcement extend the full height of the column.

### Reason for Change

Under extreme events (accidents, blasts, etc.), a hinge could form in the column at any location and not only where hinges would be predicted to occur under a seismic event. Addition of the increased reinforcement represents only a minor initial cost increase to the structure for the benefit of greatly increased column confinement and impact resistance.