

1.3—DESIGN PHILOSOPHY**1.3.3—Ductility**

Revise Article 1.3.3 as follows:

The structural system of a bridge shall be proportioned and detailed to ensure the development of significant and visible inelastic deformations at the strength ~~and extreme event~~ limit states before failure. The structural system of a bridge shall be proportioned and detailed to ensure a significant inelastic deformation capacity at the extreme event limit state to prevent collapse.

Energy-dissipating devices may be substituted for or used to supplement conventional ductile earthquake resisting systems and the associated methodology addressed in these Specifications or the *AASHTO Guide Specifications for Seismic Design of Bridges*.

~~For the strength limit state:~~

~~$\eta_D \geq 1.05$ for nonductile components and connections
 $= 1.00$ for conventional designs and details complying with these Specifications
 ≥ 0.95 for components and connections for which additional ductility enhancing measures have been specified beyond those required by these Specifications.~~

For all ~~other~~ limit states:

$\eta_D = 1.00$

C1.3.3

Add a new last paragraph as follows:

A value of 1.0 is being used for η_D until its application is better defined.

1.3.4—Redundancy

Revise Article 1.3.4 as follows:

Multiple-load-path and continuous structures should be used unless there are compelling reasons not to use them.

~~For the strength limit state:~~

~~$\eta_R \geq 1.05$ for nonredundant members
 $= 1.00$ for conventional levels of redundancy,
 foundation elements where ϕ already accounts for
 redundancy as specified in Section 10.5
 ≥ 0.95 for exceptional levels of redundancy
 beyond girder continuity and a torsionally closed
 cross section.~~

For all ~~other~~ limit states:

$\eta_R = 1.00$

C1.3.4

Add a new last paragraph as follows:

A value of 1.0 is being used for η_R until its
 application is better defined.

1.3.5—Operational Importance

Revise Article 1.3.5 as follows:

~~For the strength limit state:
 $\eta_I \geq 1.05$ for important bridges
 $= 1.00$ for typical bridges
 ≥ 0.95 for relatively less important bridges.
For all other limit states:
 $\eta_I = 1.00$~~

C1.3.5

Add a new last paragraph as follows:

A value of 1.0 is being used for η_I until its application is better defined.

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