



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Design Memorandum No. 07-08 Technical Advisory

April 12, 2007

TO: All Design, Operations, and District Personnel, and Consultants

FROM: /s/ Richard L. Vancleave
Richard L. VanCleave
Design Policy Engineer
Office of Roadway Engineering Services

SUBJECT: Impact Attenuator Type CR

REVISES: *Indiana Design Manual* Section 49-6.01, Item 4

EFFECTIVE: September 6, 2007, Letting

The Impact Attenuator and Guardrail End Treatment Evaluation Committee has recommended and approved a new impact attenuator type CR.

The expected or experienced crash frequency should be considered in attenuator type CR selection.

Type CR1 should be specified unless conditions exist as described below.

Type CR2 should only be specified for a location that has been documented for an existing alignment, or anticipated for a new alignment, by the appropriate district maintenance engineer, to have an impact frequency of 3 or more per year. A type CR2 unit is largely self-restoring after a typical impact, and has the ability to partially absorb additional impacts that can occur before the unit can be serviced.

The designer should solicit input from the appropriate district maintenance engineer on which type of CR attenuator to specify. Use of a type CR2 attenuator must be authorized in writing by the maintenance engineer.

The new code numbers and pay item names are listed below. The pay unit remains each.

601-09146 Impact Attenuator, CR1, W1, TL-2

601-09147 Impact Attenuator, CR1, W2, TL-2

601-09148 Impact Attenuator, CR1, W3, TL-2

601-09149 Impact Attenuator, CR1, W1, TL-3

601-09150 Impact Attenuator, CR1, W2, TL-3

601-09151 Impact Attenuator, CR1, W3, TL-3

601-09152 Impact Attenuator, CR2, W1, TL-2

601-09153 Impact Attenuator, CR2, W2, TL-2

601-09154 Impact Attenuator, CR2, W3, TL-2

601-09155 Impact Attenuator, CR2, W1, TL-3

601-09156 Impact Attenuator, CR2, W2, TL-3

601-09157 Impact Attenuator, CR2, W3, TL-3

rvc:ys

[P:\Structural Services\Design Memos\Signed\0708-ta.doc]