



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Memorandum

March 30, 2009

CONSTRUCTION MEMORANDUM
09-09

TO: District Deputy Commissioners
Technical Services Directors
District Construction Engineers
District Testing Engineers
District Area Engineers
Project Engineers/Supervisors

FROM: Mark A. Miller, Director *Mark A. Miller*
Division of Construction Management

SUBJECT: Construction Zone Impact Attenuators

Construction Memorandum 08-15 directed immediate removal and replacement of non-compliant construction zone impact attenuators on construction projects. In order to be compliant with the Standard Specifications, CZ units must be NCHRP 350 approved and be classified as redirective in the FHWA approval letter.

Additional information has been provided and reviewed that indicates non-redirective units may provide satisfactory service if certain conditions are met. The use of these units may be more economical in some circumstances. Therefore, the Department will consider making a change to the contract requirements on a case by case basis.

The following criteria must be met for use of a non-redirective construction zone impact attenuator:

- The CZ unit may be substituted after contract award if approved by the Department. No consideration will be made by the Department in advance of the letting.
- The unit must be NCHRP 350 approved.
- The Contractor must submit a revised maintenance of traffic plan for the area where the proposed unit will be used. The revised plan must address all changes required to incorporate the proposed unit into the MOT plan, including but not limited to required clear zone, required vehicle recovery area, changes in wall length, changes in wall taper, and any other factors specific to the proposed unit. The revised plan must be stamped by an Indiana licensed professional engineer.

- The submittal must include a summary of the changes in quantities of existing and new items, including changes in temporary barrier wall length, required to implement the revised MOT plan.
- The net cost to the Department to implement the revised MOT plan must be equal to or less than zero.
- The submittal will be approved by either the PE/S or Area Engineer.
- If approved, the revised MOT plan must be incorporated into the contract by Change Order.

This procedure should ensure that a non-redirective CZ unit is properly used and that the cost to make that determination is placed appropriately in the potential economy of using the non-redirective device. That is, the cost will not be shifted to the Department.

Questions should be directed to the appropriate Division of Construction Management Field Engineer.

MAM:RLH:JN