

## **SECTION 544 VEHICULAR IMPACT ATTENUATORS**

### **544-1 Description.**

Install redirective and non-redirective vehicular impact attenuators (VIA) of the sizes and types designated in the plans. Redirective VIAs are safety devices with capabilities to redirect the impacting vehicle over the full length of the device. Non-redirective VIAs allow controlled penetration of the impacting vehicle over the full length of the device.

### **544-2 Qualified Products List.**

Use Vehicle Impact Attenuators listed on the QPL. Manufacturers seeking evaluation of their VIAs shall furnish certified test reports showing that their products meet all test requirements of NCHRP 350.

### **544-3 Construction.**

Handle and install manufactured materials or articles in accordance with the manufacturer's instructions and the Design Standards.

Use attenuators delineated with a Type I Object Marker specified in Section 705.

Perform repairs necessary due to defective material, work, or operations without additional cost to the Department.

Restore the attenuator damaged by the traveling public after the installation is completed, accepted and serving its intended purpose on an open section of bridge or roadway within 24 hours.

### **544-4 Compensation.**

Price and payment will be full compensation for the complete system or module in place and accepted, including object marker. Payment for restoring damaged attenuators will be at the manufacturer's/distributor's invoice price for the new materials or parts plus 20% markup. The 20% markup is compensation for all necessary work, including but not limited to labor, equipment, supplies and profit, as authorized by the Engineer.

Relocation of an existing attenuator system to a permanent location called for in the plans shall be paid for at the Contract unit price for relocating existing systems. Price and payment will be full compensation for relocating and reinstalling the system in accordance with the manufacturer's instructions and the Design Standards.

Payment will be made under:

- Item No. 544- 74-      Vehicular Impact Attenuator, Relocate Existing - each.
- Item No. 544- 75-      Vehicular Impact Attenuator - each.