



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

January 12, 2004

Mr. Donald Davis
Program Operations Engineer
Federal Highway Administration
227 N. Bronough Street, Suite 2015
Tallahassee, Florida 32301

Re: Office of Design, Specifications
Section 102
Proposed Specification: D1020096.D01

Dear Mr. Davis:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Temporary Impact Attenuator/Crash Cushion.

This change was proposed by Cheryl Adams of the State Roadway Design Office to change payment for sand barrels as a complete array, per location and to add references to the new types of gating crash cushions..

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or duane.brautigam@dot.state.fl.us.

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Signature on file

Duane F. Brautigam, P.E.
State Specifications Engineer

DFB/jf

Attachment

cc: General Counsel
Florida Transportation Builders' Assoc.
State Construction Engineer

**TEMPORARY VEHICULAR IMPACT ATTENUATOR/CRASH
CUSHION.
(REV 1-12-04)**

SUBARTICLE 102-9.6 (Page 108) is deleted and the following substituted:

102-9.6 Temporary Vehicle Vehicular Impact Attenuator/Crash Cushion (Redirect/Inertia Gating): Furnish, install, maintain and subsequently remove temporary vehicular impact attenuators/crash cushions in accordance with the details and notes shown in the plans, and the Design Standards called for in the plans. Vehicular impact crash cushions shall conform to the requirements of the Design Standards or pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans. Manufacturers seeking evaluation of products for inclusion on the QPL as pre-approved alternates must submit an application in accordance with Section 6, including all supporting information and documentation detailed in the applicable Design Standard.

Maintain the attenuators/crash cushions until their authorized removal. Repair all attachment scars to permanent structures and pavements after attenuator/crash cushion removal. Make necessary repairs due to defective material, work, or Contractor operations at no cost to the Department. Restore attenuators/crash cushions damaged by the traveling public within 24 hours after notification as authorized by the Engineer.

SUBARTICLE 102-11.12 (Page 114) is deleted and the following substituted:

102-11.12 Temporary Vehicular Impact Attenuator/Crash Cushion (Redirective/Gating):
~~102-11.12.1 Redirective:~~ The quantity to be paid for will be the number of Temporary Vehicular Impact Attenuators (Redirective) certified as installed/used and maintained on the project, including object marker. The quantity to be paid for will be the number of Temporary Vehicular Impact Attenuators/Crash Cushions (Inertia) modules to form each attenuator and certified as installed/used and maintained in accordance with the plans and Design Standards, Index No. 417 Contract Documents.

SUBARTICLE 102-13.12 (Page 117) is deleted and the following substituted:

102-13.12 Temporary Vehicular Impact Attenuator/Crash Cushion (Redirective/Gating):
~~102-13.12.1 Redirective:~~ Price and payment will be full compensation for furnishing, installing, maintaining and subsequently removing such attenuators/crash cushions. Restoration of damaged attenuators/crash cushions will be paid for at the invoice price plus 20%, for the new parts as authorized by the Engineer. Payment for restoration will be full compensation for all necessary work and materials.

~~102-13.12.2 Inertia:~~ Price and payment for the number of modules necessary for the completed attenuator will be full compensation for furnishing, installing, maintenance and removal at each specified location. In addition, payment will be made for new modules replaced due to damages, excluding damage caused by the Contractor's operations.

SUBARTICLE 102-13.23 (Pages 118 and 119). Pay Items 102-81, 2102-81, 102-89 and 2102-89 are deleted and the following substituted:

Item No. 102- 81- Vehicular Impact Attenuator/Crash Cushion Modules (Inertia)
(Gating) (Temporary) - each per location.

D1020096.D01

102-81, 2102-81

102-89, 2102-89

- Item No. 2102- 81- Vehicular Impact Attenuator/*Crash Cushion* Modules (~~Inertia~~)
(*Gating*) (Temporary) - ~~each~~ *per location*.
- Item No. 102- 89- Vehicular Impact Attenuator/*Crash Cushion* (*Redirective*)
(Temporary) - per location.
- Item No. 2102- 89- Vehicular Impact Attenuator/*Crash Cushion* (*Redirective*)
(Temporary) - per location.

**TEMPORARY VEHICULAR IMPACT ATTENUATOR/CRASH CUSHION.
(REV 1-12-04)**

SUBARTICLE 102-9.6 (Page 108) is deleted and the following substituted:

102-9.6 Temporary Vehicular Impact Attenuator/Crash Cushion (Redirect/Gating):

Furnish, install, maintain and subsequently remove temporary vehicular impact crash cushions called for in the plans. Vehicular impact crash cushions shall conform to the requirements of the Design Standards or pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans. Manufacturers seeking evaluation of products for inclusion on the QPL as pre-approved alternates must submit an application in accordance with Section 6, including all supporting information and documentation detailed in the applicable Design Standard.

Maintain the crash cushions until their authorized removal. Repair all attachment scars to permanent structures and pavements after crash cushion removal. Make necessary repairs due to defective material, work, or Contractor operations at no cost to the Department. Restore crash cushions damaged by the traveling public within 24 hours after notification as authorized by the Engineer.

SUBARTICLE 102-11.12 (Page 114) is deleted and the following substituted:

102-11.12 Temporary Vehicular Impact Attenuator/Crash Cushion

(Redirective/Gating):The quantity to be paid for will be the number of Temporary Vehicular Impact Attenuators/Crash Cushions certified as installed/used and maintained in accordance with the Contract Documents.

SUBARTICLE 102-13.12 (Page 117) is deleted and the following substituted:

102-13.12 Temporary Vehicular Impact Attenuator/Crash Cushion (Redirective/Gating):

Price and payment will be full compensation for furnishing, installing, maintaining and subsequently removing such crash cushions. Restoration of damaged crash cushions will be paid for at the invoice price plus 20%, for the new parts as authorized by the Engineer. Payment for restoration will be full compensation for all necessary work and materials.

SUBARTICLE 102-13.23 (Pages 118 and 119). Pay Items 102-81, 2102-81, 102-89 and 2102-89 are deleted and the following substituted:

Item No. 102- 81-	Vehicular Impact Attenuator/Crash Cushion (Gating) (Temporary) - per location.
Item No. 2102- 81-	Vehicular Impact Attenuator/Crash Cushion (Gating) (Temporary) - per location.
Item No. 102- 89-	Vehicular Impact Attenuator/Crash Cushion (Redirective) (Temporary) - per location.
Item No. 2102- 89-	Vehicular Impact Attenuator/Crash Cushion (Redirective) (Temporary) - per location.