



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

February 22, 2012

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 536
Proposed Specification: 5360600 Guardrail

Dear Ms. Gourdine:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

This change is proposed by John Mauthner to clarify payment for guardrail and allow for separate payment of bridge anchorage assemblies, rub rail and pipe rail.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

Signature on File

Rudy Powell, Jr., P.E.
State Specifications Engineer

RP/ft

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

GUARDRAIL.**(REV ~~1-12-1221-1922-12~~)**

ARTICLE 536-6 (Page 675) is deleted and the following substituted:

536-6 Method of Measurement.

536-6.1 Guardrail: The quantity to be paid for will be the plan quantity, in feet, constructed, in place and accepted.

The plan length of a run of guardrail will be ~~determined as a multiple of the nominal panel lengths plus the nominal lengths of terminal~~ *the end to end measurement including -panels (Thrie-Beam, Nested, and W-Thrie Beam Transition Panels) directly associated with anchorage assemblies and guardrail transitions* sections, unless payment for the terminal sections are included in the end anchorage or bridge anchorage assemblies.

536-6.2 End Anchorage Assemblyies: The quantity to be paid for will be the number of each type as designated, constructed, in place and accepted.

536-6.3 Special Guardrail Posts: The quantity to be paid for will be the number of each, constructed, in place and accepted.

The designation “Special Guardrail Posts” will include only such posts as require special fabrication, for installation at locations where the normal setting would conflict with concrete structures, such as approach slabs, culvert slabs, footings, inlets, etc. Special posts, however, will not include posts for double-face median guardrail, regardless of whether they are embedded in or attached to concrete.

536-6.4 Bridge Anchorage Assemblyies: The quantity to be paid for will be the number of each, constructed, in place and accepted.

536-6.5 ~~Guardrail-Concrete Barrier Wall~~ Anchorage Assembly(Concrete Barrier Wall): The quantity to be paid for will be the number of each, constructed, in place and accepted.

536-6.6 Guardrail Post Replacement: The quantity to be paid for will be the number of each, replaced.

536-6.7 Removal of Existing Guardrail: The quantity to be paid for will be the length, in feet, measured prior to removal.

~~**536-6.8 Special Steel Guardrail Posts:** The quantity to be paid for will be the number of each, constructed, in place and accepted.~~

536-6.98 Other Rail:

536-6.98.1 Rub Rail: *The quantity to be paid for will be the plan quantity, in feet, constructed, in place and accepted.*

536-6.98.2 Pipe Rail: *The quantity to be paid for will be the plan quantity, in feet, constructed, in place and accepted.*

ARTICLE 536-7 (Pages 676 – 677) is deleted and the following substituted:

536-7 Basis of Payment.

536-7.1 Guardrail: Price and payment will be full compensation for all work specified under this Section, ~~to including including~~ the furnishing and installing ~~of the~~ acrylic plastic reflectors, ~~posts, all panels~~ ~~Thrie-Beam Panels, Nested Panels, W-Beam Transition Panels~~, and all other materials as specified. Payment will be made under the items as follows:

a. Where the Contractor furnishes all materials for the guardrail, and the Engineer does not require shop-bent rails, payment will be made under the basic item of Guardrail.

b. Where the radius of the guardrail installation is such as to require shop bending of the guardrail panels, payment will be made under the item of Guardrail (Shop-bent Panels).

~~All component parts of the complete guardrail installation will be included in the price per foot for the above items except for the separate payments to be made under the special items listed below.~~

536-7.2 End Anchorage Assemblies: Price and payment will include all components specified on the plans and Design Standards.

536-7.3 Special Guardrail Posts: Price and payment will include all costs for furnishing and installing the special posts that are over and above the costs for the normal posts, which are replaced by such special posts.

536-7.4 Bridge Anchorage Assemblies: ~~When the plans provide for direct payment for Bridge Anchorage Assemblies,~~ Price and payment will include furnishing and installing the special End Shoes, Wood Blocks or Retrofit Wing Posts, Concrete Anchor Posts, ~~Thrie-Beam Terminal Connectors, Backup Plates, Filler Plates~~, and necessary hardware.

~~When the plans do not provide for direct payment for Bridge Anchorage Assemblies, the Contractor shall include the cost for the assemblies in the Contract price per foot for the guardrail.~~

536-7.5 Guardrail Concrete Barrier Wall Anchorage Assembly (Concrete Barrier Wall): Price and payment will include installing connections to concrete barrier walls, as shown on the Design Standards, Index Nos. 400 and 410.

536-7.6 Guardrail Post Replacement: Price and payment will include all labor, materials, and equipment required for removal and disposal of existing posts in areas provided by the Contractor, backfilling and compacting existing holes, and replacement with new posts.

536-7.7 Removal of Existing Guardrail: Price and payment will include all labor and equipment required for removal and disposition of the existing guardrail, as specified in the plans. No additional payment will be made for the removal of the back rail on double face guardrail, thrie beam guardrail, nested rail, safety pipe rail, ~~rub~~ rail or end anchorages.

~~536-7.8 Special Steel Guardrail Posts with Accessories: Price and payment will include all components specified on the plans and Design Standards.~~

536-7.89 Other Rail:

536-7.98.1 Rub Rail: Price and payment will include all components specified on the plans and Design Standards, Index No. 400.

536-7.98.2 Pipe Rail: Price and payment will include all components specified on the plans and Design Standards, Index No. 400.

536-7.9-10-9 Payment Items: Payment will be made under:

- Item No. 536- 1- Guardrail - per foot.
- Item No. 536- 2- Guardrail (Shop-Bent Panels) - per foot.
- Item No. 536- 5- Rub Rail - per foot.*
- Item No. 536- 6- Pipe Rail - per foot.*
- Item No. 536- 7- Special Guardrail Post - each.
- Item No. 536- 8- Bridge Anchorage ~~Assemblies~~ *Assembly* - each.
- Item No. 536- 73- Removal of Existing Guardrail - per foot.
- ~~Item No. 536- 75- Special Steel Guardrail Posts with Accessories - each.~~
- Item No. 536- 76- Special Length Guardrail Posts - each.
- Item No. 536- 82- ~~Guardrail~~ *Concrete Barrier Wall* Anchorage *Assembly (Concrete Barrier Wall)*- each.
- Item No. 536- 83- Guardrail Post Replacement- each.
- Item No. 536- 85- ~~Guardrail~~ End Anchorage Assembly - each.

GUARDRAIL.**(REV 2-22-12)**

ARTICLE 536-6 (Page 675) is deleted and the following substituted:

536-6 Method of Measurement.

536-6.1 Guardrail: The quantity to be paid for will be the plan quantity, in feet, constructed, in place and accepted.

The plan length of a run of guardrail will be the end to end measurement including panels (Thrie-Beam, Nested, and W-Thrie Beam Transition Panels) directly associated with anchorage assemblies and guardrail transitions.

536-6.2 End Anchorage Assembly: The quantity to be paid for will be the number of each type as designated, constructed, in place and accepted.

536-6.3 Special Guardrail Post: The quantity to be paid for will be the number of each, constructed, in place and accepted.

The designation "Special Guardrail Post" will include only such posts as require special fabrication, for installation at locations where the normal setting would conflict with concrete structures, such as approach slabs, culvert slabs, footings, inlets, etc. Special posts, however, will not include posts for double-face median guardrail, regardless of whether they are embedded in or attached to concrete.

536-6.4 Bridge Anchorage Assembly: The quantity to be paid for will be the number of each, constructed, in place and accepted.

536-6.5 Concrete Barrier Wall Anchorage Assembly: The quantity to be paid for will be the number of each, constructed, in place and accepted.

536-6.6 Guardrail Post Replacement: The quantity to be paid for will be the number of each, replaced.

536-6.7 Removal of Existing Guardrail: The quantity to be paid for will be the length, in feet, measured prior to removal.

536-6.8 Other Rail:

536-6.8.1 Rub Rail: The quantity to be paid for will be the plan quantity, in feet, constructed, in place and accepted.

536-6.8.2 Pipe Rail: The quantity to be paid for will be the plan quantity, in feet, constructed, in place and accepted.

ARTICLE 536-7 (Pages 676 – 677) is deleted and the following substituted:

536-7 Basis of Payment.

536-7.1 Guardrail: Price and payment will be full compensation for all work specified under this Section, including furnishing and installing acrylic plastic reflectors, posts, all panels, and all other materials as specified. Payment will be made under the items as follows:

a. Where the Contractor furnishes all materials for the guardrail, and the Engineer does not require shop-bent rails, payment will be made under the basic item of Guardrail.

b. Where the radius of the guardrail installation is such as to require shop bending of the guardrail panels, payment will be made under the item of Guardrail (Shop-bent Panels).

536-7.2 End Anchorage Assembly: Price and payment will include all components specified on the plans and Design Standards.

536-7.3 Special Guardrail Post: Price and payment will include all costs for furnishing and installing the special posts that are over and above the costs for the normal posts, which are replaced by such special posts.

536-7.4 Bridge Anchorage Assembly: Price and payment will include furnishing and installing the special End Shoes, Wood Blocks or Retrofit Wing Posts, Concrete Anchor Posts, Thrie-Beam Terminal Connectors, Backup Plates, Filler Plates, and necessary hardware.

536-7.5 Concrete Barrier Wall Anchorage Assembly: Price and payment will include installing connections to concrete barrier walls, as shown on the Design Standards, Index Nos. 400 and 410.

536-7.6 Guardrail Post Replacement: Price and payment will include all labor, materials, and equipment required for removal and disposal of existing posts in areas provided by the Contractor, backfilling and compacting existing holes, and replacement with new posts.

536-7.7 Removal of Existing Guardrail: Price and payment will include all labor and equipment required for removal and disposition of the existing guardrail, as specified in the plans. No additional payment will be made for the removal of the back rail on double face guardrail, thrie beam guardrail, nested rail, safety pipe rail, rub rail or end anchorages.

536-7.8 Other Rail:

536-7.8.1 Rub Rail: Price and payment will include all components specified on the plans and Design Standards, Index No. 400.

536-7.8.2 Pipe Rail: Price and payment will include all components specified on the plans and Design Standards, Index No. 400.

536-7.9 Payment Items: Payment will be made under:

Item No. 536- 1-	Guardrail - per foot.
Item No. 536- 2-	Guardrail (Shop-Bent Panels) - per foot.
Item No. 536- 5-	Rub Rail - per foot.
Item No. 536- 6-	Pipe Rail - per foot.
Item No. 536- 7-	Special Guardrail Post - each.
Item No. 536- 8-	Bridge Anchorage Assembly - each.
Item No. 536- 73-	Removal of Existing Guardrail - per foot.
Item No. 536- 76-	Special Length Guardrail Post - each.
Item No. 536- 82-	Concrete Barrier Wall Anchorage Assembly - each.
Item No. 536- 83-	Guardrail Post Replacement- each.
Item No. 536- 85-	End Anchorage Assembly - each.