

2010 FDOT/FTBA Construction Conference

LESS Session
February 24, 2010

Topics

- ▶ Guardrail
- ▶ Cable Rail
- ▶ Attenuators

Panelists

- ▶ Stefanie Maxwell FDOT
- ▶ Jim Mills FDOT
- ▶ Lou Buenaventura LESS Chairman

Guardrail Issues

- ▶ Inclusion of Bridge Anchor Pay Items
- ▶ Height of guardrail – Tolerances over undulating surfaces, drainage structures, etc.
- ▶ Pedestrian rail needs to be shown in the Summary of Guardrail chart
- ▶ Pay for Guardrail is through the end anchors

Guardrail Issues - 2

- ▶ Pedestrian rail cannot be terminated on any of the anchor posts.
- ▶ Designers must provide, in the plans, the Scheme # of the GR attachment to a Bridge – See Index 402, sheet 24 of 24
- ▶ Concrete Encased Posts – depth of embedment when installed next to a curb is 2' minimum - Index 400 page 22 of 26

Guardrail Issues - 3

- ▶ Reflectors – When extending existing runs of guardrail, Contractors are to install new type reflectors not the old style
- ▶ Confusion between Pay Item 460-71-1 – Metal Traffic Railing Thrie Beam Retrofit and Pay Item 536-1-6 Guardrail Bridge Thrie Beam

Cable Rail Issues

- ▶ Developmental Specification 540
- ▶ Five different approved Cable Rail systems available
- ▶ These are not interchangeable on the same job.

Cable Rail Issues - 2

► Design of Concrete Anchors

- Must be performed by an Engineer for the Contractor/Supplier
- Design can be based on the soil parameters included in the Developmental Specification or site specific soil borings
- Design should be submitted with enough time allowed for FDOT review and approval prior to installation, not just 10 days in advance

Cable Rail Issues - 3

- ▶ Height of cable rail
 - Measured at the post
 - Height tolerances
- ▶ Cable Rail placement should be on slopes 6:1 or flatter
- ▶ Allowable Deflection of 8' is to be considered during design placement of cable rail

Attenuators

- ▶ **FDOT requests that Industry improve the quality of repairs performed to installed attenuators that have been damaged**

Attenuators – 2

- ▶ **Manufacturer's Reps are here today to provide information on how to best accomplish quality repairs to attenuators**
 - **Adam Young – Site-Safe Products**
 - **Mathew Schindler – Cloverleaf Corporation**
 - **Rick Rowe – Gulf Industries**
 - **SCI Attenuators**

LESS SESSION

▶ QUESTIONS ???

