## Guardrail Projects -- No. 508113

Category Subcategory Administering Agency Planning Area Transportation
Traffic Improvements
Transportation
Countywide

Date Last Modified Required Adequate Public Facility Relocation Impact

Status

acility No None. On-going

January 04, 2012

**EXPENDITURE SCHEDULE (\$000)** 

|                                   |       | Im/\1        |              |                  | ( <del></del> | .000, |      |      |      |      |                   |
|-----------------------------------|-------|--------------|--------------|------------------|---------------|-------|------|------|------|------|-------------------|
| Cost Element                      | Total | Thru<br>FY11 | Est.<br>FY12 | Total<br>6 Years | FY13          | FY14  | FY15 | FY16 | FY17 | FY18 | Beyond<br>6 Years |
| Planning, Design, and Supervision | 540   | 30           | 70           | 440              | 70            | 70    | 75   | 75   | 75   | 75   | 0                 |
| Land                              | 0     | 0            | 0            | 0                | 0             | 0     | 0    | 0    | 0    | 0    | 0                 |
| Site Improvements and Utilities   | 1,714 | 112          | 202          | 1,400            | 195           | 240   | 200  | 235  | 235  | 295  | 0                 |
| Construction                      | 0     | 0            | 0            | 0                | 0             | 0     | 0    | 0    | 0    | 0    | 0                 |
| Other                             | 3     | 0            | 3            | 0                | 0             | 0     | 0    | 0    | 0    | 0    | 0                 |
| Total                             | 2,257 | 142          | 275          | 1,840            | 265           | 310   | 275  | 310  | 310  | 370  | *                 |
|                                   |       | F            | UNDING       | SCHED            | ULE (\$00     | 0)    |      |      |      |      |                   |
| G.O. Bonds                        | 2,257 | 142          | 275          | 1,840            | 265           | 310   | 275  | 310  | 310  | 370  | 0                 |
| Total                             | 2.257 | 142          | 275          | 1.840            | 265           | 310   | 275  | 310  | 310  | 370  | n                 |

### DESCRIPTION

This project provides for: 1) installation of guardrail where they are determined to be required; 2) upgrading identified deficient and/or noncompliant end treatments to meet current Maryland State Highway Administration (MSHA) standards; 3) establishment of a 25-year lifecycle replacement program; and 4) replacement of guardrail damaged beyond repair in crashes.

#### **COST CHANGE**

Increase due to the enhanced level of effort in FY13-14 and the addition of FY17-18 to this on-going level of effort project.

#### JUSTIFICATION

Guardrails reduce the severity of run-off-the-road accidents, prevent collisions with fixed objects and protect embankments. Damaged or missing guardrails and deficient end treatments present a hazard to motorists, cyclists, and pedestrians. Guardrails have a finite service life and must be replaced at the end of this service life or when damaged in order to continue to provide safety benefits for all users. The March 2010, "Report of the Infrastructure Maintenance Task Force," confirmed this and identified the need for guardrail lifecycle replacement.

The existing tapered and buried guardrail end treatments provide a ramp for errant vehicles and do not meet current MSHA standards. A study was completed to identify these substandard or deficient end treatments and to replace them to meet modern crash attenuation standards.

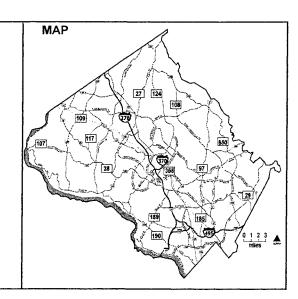
#### OTHER DISCLOSURES

- \* Expenditures will continue indefinitely.

| APPROPRIATION AND EXPENDITURE DATA |      |         |
|------------------------------------|------|---------|
| Date First Appropriation           | FY81 | (\$000) |
| First Cost Estimate Current Scope  | FY13 | 2,257   |
| Last FY's Cost Estimate            |      | 1,457   |
| Appropriation Request              | FY13 | 265     |
| Appropriation Request Est.         | FY14 | 310     |
| Supplemental Appropriation Re      | 0    |         |
| Transfer                           |      | 0       |
| Cumulative Appropriation           |      | 417     |
| Expenditures / Encumbrances        |      | 167     |
| Unencumbered Balance               |      | 250     |
| Partial Closeout Thru              | FY10 | 3,744   |
| New Partial Closeout               | FY11 | 0       |
| Total Partial Closeout             |      | 3,744   |

# COORDINATION

Federal Highway Administration Maryland State Highway Administration Montgomery County Public Schools



11-121

County Council