

Bridge Preservation Program -- No. 500313

Category
Subcategory
Administering Agency
Planning Area

Transportation
Bridges
Transportation
Countywide

Date Last Modified
Required Adequate Public Facility
Relocation Impact
Status

January 08, 2010
No
None.
On-going

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY09	Est. FY10	Total 6 Years	FY11	FY12	FY13	FY14	FY15	FY16	Beyond 6 Years
Planning, Design, and Supervision	2,161	955	354	852	142	142	142	142	142	142	0
Land	24	6	6	12	2	2	2	2	2	2	0
Site Improvements and Utilities	2	2	0	0	0	0	0	0	0	0	0
Construction	5,562	2,534	868	2,160	360	360	360	360	360	360	0
Other	2	2	0	0	0	0	0	0	0	0	0
Total	7,751	3,499	1,228	3,024	504	504	504	504	504	504	*

FUNDING SCHEDULE (\$000)

Federal Aid	366	366	0	0	0	0	0	0	0	0	0
G.O. Bonds	7,345	3,133	1,188	3,024	504	504	504	504	504	504	0
Intergovernmental	40	0	40	0	0	0	0	0	0	0	0
Total	7,751	3,499	1,228	3,024	504	504	504	504	504	504	0

DESCRIPTION

This project provides for removal of corrosion and installation of protective coatings on existing County steel bridges that have been identified as needing surface recoating through the Biennial Bridge Inspection Program. Bridge preservation field operations include the removal of the existing coating system which may contain hazardous materials; containment of blast cleaning and waste paint particles; disposal of the hazardous materials at a pre-approved disposal site, as required by Maryland and Federal environmental regulations; installation of protective coating system; and inspection to ensure compliance with environmental and contract requirements.

COST CHANGE

Increase due to addition of FY15-16 to this ongoing level of effort project.

JUSTIFICATION

The benefits of this program will include extending the useful service life of existing steel bridges, prevention of long-term structural deficiencies, decreases in vehicle load restrictions, and reduced potential road closures and public inconvenience. The long-term goal of this program will be to protect existing bridges and keep them in good condition to reduce bridge renovation/replacement costs. The expected life cycle of a coating system is 15 years. Candidate bridges for each year are identified based on the bridge coating evaluations under the Biennial Bridge Inspection Program and the available funds under the bridge preservation program.

The County currently has 116 highway and 26 pedestrian steel girder, beam and truss structures in its bridge inventory. These numbers will change when steel highway or pedestrian bridges are added into or dropped from the County's bridge inventory. The degree of specialized work required to restore the protective coatings to in-service bridges is beyond the scope of routine operations. Proper protective coating systems are an essential component of bridge maintenance to prevent long-term structural steel deterioration. Many defects identified through the Biennial Bridge Inspection Program are the direct result of bridges not being properly protected to withstand chemical and environmental elements. These defects include frozen and deteriorated steel bearings, corroded structural steel, and steel beam section loss.

OTHER

Sixty - one bridges have been repainted since the first contract in FY03. Bridge painting is no longer eligible for Federal aid; therefore, Federal aid has been adjusted. The "Intergovernmental" revenue shown in the funding schedule is from Howard County for its share of painting costs for two bridges the Montgomery County and Howard County share.

OTHER DISCLOSURES

- * Expenditures will continue indefinitely.

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY03	(\$000)
First Cost Estimate		
Current Scope	FY11	7,751
Last FY's Cost Estimate		6,743
Appropriation Request	FY11	934
Appropriation Request Est.	FY12	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		4,801
Expenditures / Encumbrances		4,305
Unencumbered Balance		496
Partial Closeout Thru	FY08	0
New Partial Closeout	FY09	0
Total Partial Closeout		0

COORDINATION

Maryland Department of Natural Resources
Maryland State Highway Administration
Occupational Safety and Health
Administration
Maryland-National Capital Park and Planning
Commission
Utilities
CSX Transportation
Washington Metropolitan Area Transit
Authority
Montgomery County Department of Permitting
Services
Bridge Renovation Program

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