

Resurfacing: Rural/Residential Roads -- No. 500511

Category	Transportation	Date Last Modified	June 24, 2008
Subcategory	Highway Maintenance	Required Adequate Public Facility	No
Administering Agency	Transportation	Relocation Impact	None.
Planning Area	Countywide	Status	On-going

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY07	Est. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	7,518	1	423	7,094	993	1,064	1,206	1,277	1,277	1,277	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	34,215	5,180	2,129	26,906	4,007	4,436	4,294	4,723	4,723	4,723	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	41,733	5,181	2,552	34,000	5,000	5,500	5,500	6,000	6,000	6,000	*

FUNDING SCHEDULE (\$000)

Current Revenue: General	333	309	24	0	0	0	0	0	0	0	0
G.O. Bonds	39,783	3,255	2,528	34,000	5,000	5,500	5,500	6,000	6,000	6,000	0
PAYGO	1,617	1,617	0	0	0	0	0	0	0	0	0
Total	41,733	5,181	2,552	34,000	5,000	5,500	5,500	6,000	6,000	6,000	0

DESCRIPTION

This project provides for the permanent patching and resurfacing of rural and residential roadways using durable hot mix asphalt to restore long term structural integrity to the aging rural and residential roadway infrastructure. The County maintains a combined total of 3885 lane miles of rural and residential roads. The department estimates that 2006 lane miles (52-percent) of rural / residential pavement requires significant levels of preventative maintenance to safeguard the infrastructure from incremental failure requiring more costly rehabilitative / reconstruction efforts. Preventative maintenance includes full-depth patching of distressed areas of pavement in combination with a new hot mix asphalt wearing surface of 1-inch to 2-inches depending on the levels of observed distress. Rural and residential roads that have been rated as 'fair condition' (level 3) are ideal candidates for preventative maintenance.

CAPACITY

This project will not affect the capacity of the rural and residential road network. However, additional lane miles of rural and residential road will be added to the existing inventory as new roads are accepted by Executive Order.

COST CHANGE

Increase due to patching and resurfacing with hot mix asphalt instead of micro-seal paving.

JUSTIFICATION

The Department of Transportation (DOT) has undertaken a sample study of rural and residential road pavement conditions utilizing a pavement condition rating system based upon types of observed distress (i.e., areas of pavement fatigue, base and sub-base failures, cracking, spalling, patches, and profile) and extent of observed distress (i.e., percentage of surface area exhibiting various forms of distress). Based upon levels of observed pavement distress, pavements are rated as very good (level 5), good (level 4), fair (level 3), poor (level 2), and very poor (level 1). The study included a cross section of approximately 6 percent of the residential road inventory (248 lane miles). The study, which is deemed representative of the residential road inventory as a whole, will be expanded to include the entire rural / residential road inventory of 3,885 lane miles. The expanded study, to be conducted by a consultant, is expected to be completed by August 2008.

OTHER

The design and planning stages, as well as project construction, will comply with the Department of Transportation (DOT), Maryland State Highway Administration (MSHA), Manual on Uniform Traffic Control Devices (MUTCD), American Association of State and Highway Officials (AASHTO), and American with Disabilities Act (ADA). Rural/residential road mileage has been adjusted to conform with the State inventory of road mileage maintained by the State Highway Administration (SHA). This inventory is updated annually. Expenditures will continue indefinitely.

OTHER DISCLOSURES

- * Expenditures will continue indefinitely.

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY05	(\$000)
First Cost Estimate	FY09	41,733
Current Scope		
Last FY's Cost Estimate		19,433
Appropriation Request	FY09	5,000
Appropriation Request Est.	FY10	5,500
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		7,733
Expenditures / Encumbrances		5,578
Unencumbered Balance		2,155
Partial Closeout Thru	FY06	0
New Partial Closeout	FY07	0
Total Partial Closeout		0

COORDINATION

Washington Suburban Sanitary Commission
 Washington Gas Light Company
 PEPSCO
 Cable TV
 Verizon
 United States Post Office

MAP

