

## Traffic Signals -- No. 507154

Category	Transportation	Date Last Modified	January 10, 2008
Subcategory	Traffic Improvements	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	5,044	0	526	4,518	753	753	753	753	753	753	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	23,404	0	2,572	20,832	3,472	3,472	3,472	3,472	3,472	3,472	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>28,448</b>	<b>0</b>	<b>3,098</b>	<b>25,350</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>*</b>

### FUNDING SCHEDULE (\$000)

G.O. Bonds	28,448	0	3,098	25,350	4,225	4,225	4,225	4,225	4,225	4,225	4,225	0
<b>Total</b>	<b>28,448</b>	<b>0</b>	<b>3,098</b>	<b>25,350</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>4,225</b>	<b>0</b>

### OPERATING BUDGET IMPACT (\$000)

Maintenance				252	12	24	36	48	60	72
Energy				504	24	48	72	96	120	144
Program-Staff				250	0	0	50	50	50	100
<b>Net Impact</b>				<b>1,006</b>	<b>36</b>	<b>72</b>	<b>158</b>	<b>194</b>	<b>230</b>	<b>316</b>
WorkYears					0.0	0.0	1.0	1.0	1.0	2.0

#### DESCRIPTION

This project provides for the design, construction, and maintenance of vehicular and pedestrian traffic signals and signal systems including: new and existing signals; reconstruction/replacement of aged and obsolete signals and components; auxiliary signs; accessible pedestrian signals (APS); upgrades of the County's centrally-controlled computerized traffic signal system; communications and interconnect into the signal system.

#### COST CHANGE

Increase due to addition of FY13-FY14 to this ongoing project and increased costs for design and construction services.

#### JUSTIFICATION

The growth in County population and vehicular registrations continues to produce increasing traffic volumes. As a result, congestion levels and the number of accidents increase. This requires a continued investment in the traffic signal system to: increase intersection safety; accommodate changes in traffic patterns and roadway geometry; reduce intersection delays, energy consumption, and air pollution; and provide coordinated movement on arterial routes through effective traffic management and control, utilizing modern traffic signal technologies.

The March 2006, "Report of the Infrastructure Maintenance Task Force," identified traffic signals in need of lifecycle replacement.

#### OTHER

Approximately 40 projects are completed annually by a combination of contractual and County work crews. One aspect of this project focuses on improving pedestrian walkability by creating a safe walking environment, utilizing selected engineering technologies, and ensuring ADA compliance. All new and reconstructed traffic signals are designed and constructed to include appropriate pedestrian features - crosswalks, curb ramps, countdown pedestrian signals, APS, and applicable signing. A significant portion of the traffic signal work will continue to be in the central business districts and other commercial areas, where costs are higher due to more underground utilities and congested work areas. Likewise, new signals in outlying, developing areas are more expensive due to longer runs of communication cable. The fiber optic interconnection of traffic signals is done through the Fibernet project.

#### FISCAL NOTE

Starting in FY97, \$700,000 per year is redirected to the Fibernet project and is to continue through the implementation of Fibernet.

#### OTHER DISCLOSURES

- \* Expenditures will continue indefinitely.

#### APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY71	(\$000)
First Cost Estimate		
Current Scope	FY09	28,448
Last FY's Cost Estimate		17,066
Appropriation Request	FY09	4,225
Appropriation Request Est.	FY10	4,225
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		3,098
Expenditures / Encumbrances		1,273
Unencumbered Balance		1,825
Partial Closeout Thru	FY06	61,805
New Partial Closeout	FY07	2,768
Total Partial Closeout		64,573

#### COORDINATION

Advanced Transportation Management System  
 Verizon  
 Fibernet CIP (#509651)  
 Maryland State Highway Administration  
 Potomac Electric Power Company  
 Washington Gas and Light  
 Washington Suburban Sanitary Commission  
 Montgomery County Pedestrian Safety Advisory Committee  
 Citizens Advisory Boards  
 Maryland-National Capital Park and Planning Commission

#### MAP

