Traffic Signal System Modernization -- No. 500704

Category	**Transportation**	Date Last Modified	**March 29, 2006**
Agency	**Public Works & Transportation**	Required Adequate Public Facility	**NO**
Planning Area	**Countywide**		
Relocation Impact	**None.**		

EXPENDITURE SCHEDULE ($000)

Cost Element	Total	Thru FY05	Est. FY06	Total 6 Years	FY07	FY08	FY09	FY10	FY11	FY12	Beyond 6 Years
Planning, Design and Supervision	2,600	0	0	2,600	1,300	1,300	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	2,600	0	0	2,600	1,300	1,300	0	0	0	0	0

FUNDING SCHEDULE ($000)

G.O. Bonds	600	0	0	600	0	600	0	0	0	0	0
Current Revenue: General	1,625	0	0	1,625	925	700	0	0	0	0	0
Federal Aid	375	0	0	375	375	0	0	0	0	0	0

ANNUAL OPERATING BUDGET IMPACT ($000)

DESCRIPTION

This project provides for Phase I which consists of requirements development, systems engineering, and testing to modernize the County's traffic signal system. Phase II will entail acquisition and implementation of a state-of-the-art replacement of the current central traffic signal control system. Key elements of the modernization include system central hardware and software and communications system cable plant re-configuration.

Service Area

Countywide

JUSTIFICATION

The existing traffic signal control system, though it has been highly reliable, is an aging system reliant on dated technology. Central and field communications devices are obsolete and problematic to maintain. As the technologies employed in the advanced transportation management system (ATMS) have advanced, it has become increasingly difficult to interface with the existing traffic signal control system (COMTRAC). Because of the limited functionality of the COMTRAC, the system is not able to take advantage of the capabilities of the current generation of local intersection controllers. These capabilities provide a greater level of flexibility to manage traffic demands.

Plans and Studies

The following reports focus on the condition of the current traffic signal control system and document the need to begin the process of system modernization: White Paper on the Status and Future of the Traffic Signal System in Montgomery County, Maryland, March, 2001; and Traffic Signal Replacement White Paper, January, 2002. This project will include further existing systems analysis, replacement systems functional requirements development, review of the existing communications subsystem and development of state-of-the-art communication systems architecture.

Cost Change

The project is updated to include current revenue to fully fund Phase I of this project

STATUS

Concept plans. Anticipated phases of this project include: Phase I - FY07-08 - . Phase II - FY09-12 - implementation and quality assurance.

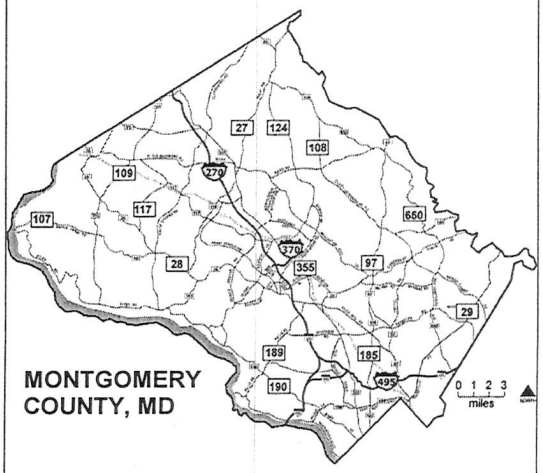
FISCAL NOTE

The County's traffic signal system supports over 730 traffic signal locations, of which more than 400 belong to the State but are maintained by the County on a reimbursement basis. The County will seek State participation. Federal aid represents an earmark for the County's ITS and requires a Federal/State partnership agreement which is currently underway.

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY07	($000)
Initial Cost Estimate		2,600
First Cost Estimate Current Scope	FY07	2,600
Last FY's Cost Estimate		0
Present Cost Estimate		2,600
Appropriation Request	FY07	1,300
Appropriation Request Est.	FY08	1,300
Supplemental Appropriation Request	FY06	0
Transfer		0
Cumulative Appropriation		0
Expenditures/ Encumbrances		0
Unencumbered Balance		0
Partial Closeout Thru	FY04	0
New Partial Closeout	FY05	0
Total Partial Closeout		0

COORDINATION

Traffic Signal System Project
ATMS Project
Maryland State Highway Administration

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