White Ground Road Bridge No. M-138 -- No. 500505

Category	**Transportation**	Date Last Modified	**May 17, 2004**
Agency	**Public Works & Transportation**	Previous PDF Page Number	**NONE**
Planning Area	**Germantown**	Required Adequate Public Facility	**NO**
Relocation Impact	**None.**		

EXPENDITURE SCHEDULE ($000)

Cost Element	Total	Thru FY03	Est. FY04	Total 6 Years	FY05	FY06	FY07	FY08	FY09	FY10	Beyond 6 Years
Planning, Design and Supervision	214	0	0	214	0	0	35	179	0	0	0
Land	17	0	0	17	0	0	10	7	0	0	0
Site Improvements and Utilities	7	0	0	7	0	0	5	2	0	0	0
Construction	883	0	0	883	0	0	0	883	0	0	0
Other	250	0	0	250	0	0	250	0	0	0	0
Total	1,371	0	0	1,371	0	0	300	1,071	0	0	0

FUNDING SCHEDULE ($000)

G.O. Bonds	1,371	0	0	1,371	0	0	300	1,071	0	0	0

ANNUAL OPERATING BUDGET IMPACT ($000)

DESCRIPTION

This project provides for replacement of the White Ground Road bridge over Buck Lodge Branch and approximately 1000 feet of approach roadway work (500 feet each to the north and south). The replacement bridge will be approximately 50-feet long and 18 feet wide. The approach roadway work is necessary to transition the new bridge into the existing roadway alignment. The bridge and road will be closed to vehicular and pedestrian traffic during construction. Stream bank stabilization and realignment of the stream channel will be required to prevent further stream degradation and erosion of the existing stream banks.

Service Area

Germantown, Boyds and vicinity.

Capacity

Upon completion, the Average Daily Traffic [ADT] on White Ground Road bridge will remain at 650 vehicles per day, and the posted load restriction will be eliminated.

JUSTIFICATION

The existing structure, built around 1950, is a 28-foot long single span steel beam bridge with an asphalt filled corrugated metal deck. The clear roadway width of 15 feet 7 inches supports alternating two-way traffic. The 2001 bridge inspection report revealed that the concrete substructure is in very poor condition. The abutments and wingwalls exhibit deterioration in the form of cracking and spalling concrete. Each abutment has been undermined by the stream current. Concrete aprons and rip-rap have been placed as temporary measures to prevent scour. The steel beams are heavily corroded with section loss in part due to moisture migrating through the joints in the corrugated metal decking. The bridge is structurally deficient and functionally obsolete. It is currently posted for both a Single Unit Vehicle Weight and Combination Unit Vehicle Weight of 34,000 lbs.

Plans and Studies

White Ground Road is designated as an exceptional rustic road in the functional Master Plan for Rustic Roads. This bridge was identified for replacement through the County's biennial bridge inspection program. A review of impacts to pedestrians, bicycles and ADA (Americans with Disabilities Act of 1991) has been performed and addressed by this project. Traffic signals, streetlights, crosswalks, bus stops, ADA ramps, bikeways, and other pertinent issues have been considered in the design of the project to ensure pedestrian safety.

Cost Change

Not applicable.

STATUS

Final Design Stage

OTHER

The scope and schedule are new for FY05. The narrow bridge width makes the project ineligible for Federal funding. The Federal funds used for design will be reimbursed to the State Highway Administration.

FISCAL NOTE

The design costs for this project are included in Facility Planning: Bridges.

APPROPRIATION AND EXPENDITURE DATA

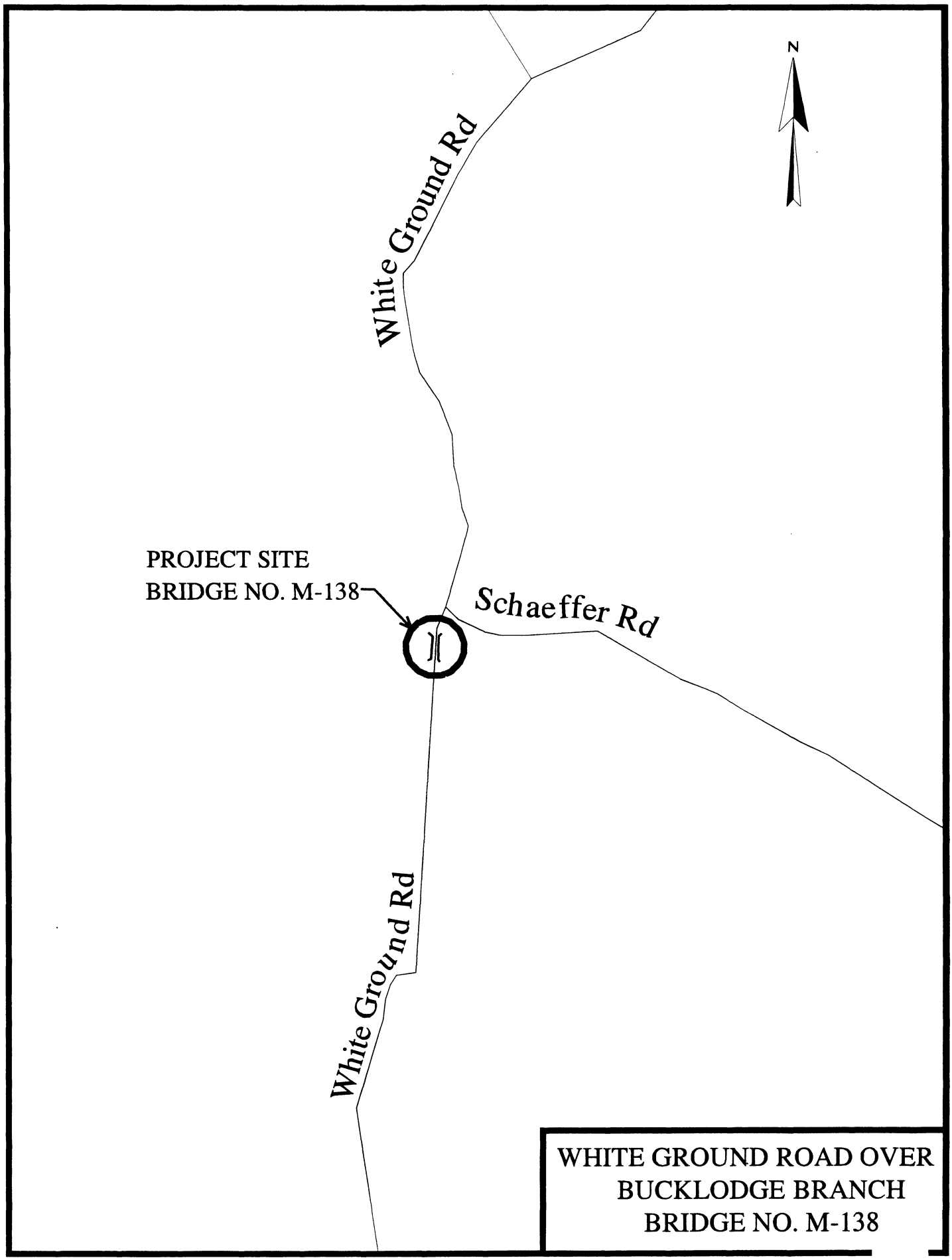
Date First Appropriation	FY05	($000)
Initial Cost Estimate		1,371
First Cost Estimate Current Scope	FY05	1,371
Last FY's Cost Estimate		0
Present Cost Estimate		1,371
Appropriation Request	FY05	0
Appropriation Request Est.	FY06	0
Supplemental Appropriation Request	FY04	0
Transfer		0
Cumulative Appropriation		0
Expenditures/ Encumbrances		0
Unencumbered Balance		0
Partial Closeout Thru	FY02	0
New Partial Closeout	FY03	0
Total Partial Closeout		0

COORDINATION

Maryland State Highway Administration
Maryland-National Capital Park and Planning Commission
Maryland Historical Trust
Maryland Department of Natural Resources
Maryland Department of the Environment
U. S. Army Corps of Engineers//U. S. Fish and Wildlife Service
Department of Permitting Services
PEPCO
Facility Planning: Bridges

MAP

See Map on Next Page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White Ground Rd
PROJECT SITE
BRIDGE NO. M-138
Schaeffer Rd
White Ground Rd
WHITE GROUND ROAD OVER
BUCKLODGE BRANCH
BRIDGE NO. M-138