

Elmhirst Parkway Bridge (Bridge No. M-0353) (P501420)

Category	Transportation	Date Last Modified	1/9/13
Sub Category	Bridges	Required Adequate Public Facility	No
Administering Agency	Transportation (AAGE30)	Relocation Impact	None
Planning Area	Bethesda-Chevy Chase	Status	Preliminary Design Stage

Total	Thru FY12	Rem FY12	Total 6 Years	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Beyond 6 Yrs
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	644	0	0	644	0	195	449	0	0	0
Land	43	0	0	43	0	43	0	0	0	0
Site Improvements and Utilities	325	0	0	325	0	0	325	0	0	0
Construction	953	0	0	953	0	279	674	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	1,965	0	0	1,965	0	517	1,448	0	0	0

FUNDING SCHEDULE (\$000s)

Federal Aid	1,048	0	0	1,048	0	311	737	0	0	0
G.O. Bonds	917	0	0	917	0	206	711	0	0	0
Total	1,965	0	0	1,965	0	517	1,448	0	0	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 14	1,965
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		0
Expenditure / Encumbrances		0
Unencumbered Balance		0

Date First Appropriation	
First Cost Estimate	
Current Scope	FY 14
Last FY's Cost Estimate	0

Description

This project provides for the replacement of the existing Elmhirst Parkway Bridge over Tributary to Rock Creek. The existing bridge, built in 1940, is a single span structural plate arch under fill carrying a 19'-0" roadway and 10'-0" grass shoulders on each side. The proposed replacement bridge includes a single span precast concrete arch structure under fill with a 22'-0" roadway and 8'-6" grass shoulders on each side. The project includes approach roadway work at each end of the bridge as necessary to tie-in to the existing roadway. The bridge and road will be closed to vehicular and pedestrian traffic during construction. The existing Elmhirst Bike path will remain open during the construction.

Location

The project site is located approximately 400 feet north of the intersection of Elmhirst Parkway with Cedar Lane in Bethesda

Capacity

The roadway Average Daily Traffic (ADT) is 600 and the roadway capacity will not change as a result of this project.

Estimated Schedule

The design of the project is expected to finish in Spring 2013. The construction is scheduled to start in Summer 2014 and be completed in Fall of 2014.

Justification

The proposed replacement work is necessary to provide a safe roadway condition for the traveling public. The 2011 bridge inspection revealed that there is severe steel corrosion with areas of 100% section loss along the arch springlines. The steel structural plate arch is rated in poor condition and the bridge is considered structurally deficient. The bridge is weight restricted and school buses are denied a waiver to cross the bridge due to safety concerns. Based on experiences with similar type structures in this condition the structure needs to be replaced as soon as possible or the roadway may be closed.

Elmhirst Parkway is located in the Bethesda-Chevy Chase Master Plan area. Elmhirst Parkway is the main entrance that extends north from Cedar Lane at the Locust Hill Estates neighborhood. Elmhirst Parkway Bridge is not considered historic but is located on the boundary of Maryland Inventory of Historic Properties Survey No. M:35-120. A review of impacts to pedestrians, bicyclists and the requirements of the ADA (American with Disabilities Act of 1991) has been performed and addressed by this project. Streetlights, crosswalks, sidewalk ramps, bikeways and other pertinent issues are being considered in the design of the project to ensure pedestrian safety.

Other

The project scope and schedule are new for FY 2014. The design costs for this project are covered in the "Bridge Design" project (C.I.P. No. 509132).

Fiscal Note

The costs of bridge construction and construction management for this project are eligible for up to 80 percent Federal Aid.

Disclosures

A pedestrian impact analysis has been completed for this project.

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Federal Highway Administration - Federal Aid Bridge Replacement/Rehabilitation Program

Maryland State Highway Administration

Maryland Department of Environment

Maryland Historical Trust

Maryland National Capital Park and Planning Commission

Montgomery County Department of Permitting Services

Utilities

Facility Planning: Bridges