

Valley Road Bridge (P501521)

Category Transportation
 Sub Category Bridges
 Administering Agency Transportation (AAGE30)
 Planning Area Bethesda-Chevy Chase

Date Last Modified 4/21/14
 Required Adequate Public Facility No
 Relocation Impact None
 Status Final Design Stage

Total	Thru FY14	Rem FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	340	0	0	340	165	175	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	85	0	0	85	42	43	0	0	0	0
Construction	750	0	0	750	365	385	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	1,175	0	0	1,175	572	603	0	0	0	0

FUNDING SCHEDULE (\$000s)

Federal Aid	812	0	0	812	398	414	0	0	0	0
G.O. Bonds	363	0	0	363	174	189	0	0	0	0
Total	1,175	0	0	1,175	572	603	0	0	0	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 16	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		1,175
Expenditure / Encumbrances		0
Unencumbered Balance		1,175

Date First Appropriation	FY 15	
First Cost Estimate		
Current Scope	FY 15	1,175
Last FY's Cost Estimate		1,175

Description

This project provides for superstructure replacement of the existing Valley Road Bridge over Booze Creek. The existing bridge, built in 1964, is a single span prestressed concrete voided beam structure carrying a 26'-0" roadway and two 5-foot sidewalks. The proposed replacement superstructure will provide two 11'-0" travel lanes, two 2'-0" shoulders and two 5'-0" sidewalks. The existing bridge abutments will be reused with minor modifications to support the new superstructure. Repairs to the concrete abutments will be made as necessary to renew the integrity of the concrete surface. 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. Accelerated bridge construction techniques will be utilized to minimize the disruption to the traveling public and local community.

Location

The Project site is located approximately 60 feet east of the intersection of Valley Road and Fallen Oak Drive in Bethesda.

Capacity

The roadway Average Daily Traffic (ADT) is under 500 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 the winter of 2013. The construction is scheduled to start in summer 2015 and be completed in fall of 2015.

Justification

The proposed replacement work is necessary to provide a safe roadway condition for the travelling public. The 2011 bridge inspection revealed that the prestressed concrete voided beams are in poor condition. All beams have horizontal cracks and longitudinal cracks with heavy efflorescence. There are several epoxy coated patches throughout the underside of all the beams with cracks up to 1/16" wide reappearing in a few of the patches. There are cracks and spalls in the wingwall and in both abutments. The bridge is considered structurally deficient. The bridge is currently posted for a 46,000 lb. limit for a single-unit truck and a 70,000 lb. limit for a combination-unit truck. Implementation of this project would allow the bridge to be restored to full capacity.

Valley Road is considered a secondary residential road, and it does not have a master plan designation in the 1990 Approved Bethesda/Chevy Chase Master Plan, nor does it have a master plan designation in the 2005 adopted Countywide Bikeways Functional Master Plan. 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 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.

Coordination

Valley Road Bridge (P501521)

Federal Highway Administration – Federal Aid Bridge Replacement/Rehabilitation Program
Maryland State Highway Administration
Maryland Department of the Environment
Maryland-National Capital Park and Planning Commission
Montgomery County Department of Permitting Services
Utilities
Bridge Design Project CIP 509132