



Mouth of Monocacy Road Bridge

(P502103)

Category	Transportation	Date Last Modified	05/11/20
SubCategory	Bridges	Administering Agency	Transportation
Planning Area	Little Monocacy Basin Dickerson-Barnesville	Status	Preliminary Design Stage

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY20	Rem FY20	Total 6 Years	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Beyond 6 Years
Land	870	-	-	870	-	-	-	50	230	590	-
Construction	2,290	-	-	2,290	-	-	-	-	745	1,545	-
TOTAL EXPENDITURES	3,160	-	-	3,160	-	-	-	50	975	2,135	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY20	Rem FY20	Total 6 Years	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Beyond 6 Years
Federal Aid	2,363	-	-	2,363	-	-	-	-	727	1,636	-
G.O. Bonds	797	-	-	797	-	-	-	50	248	499	-
TOTAL FUNDING SOURCES	3,160	-	-	3,160	-	-	-	50	975	2,135	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 22 Request	-	Year First Appropriation	
Cumulative Appropriation	-	Last FY's Cost Estimate	3,160
Expenditure / Encumbrances	-		
Unencumbered Balance	-		

PROJECT DESCRIPTION

This project provides for the replacement of the existing Mouth of Monocacy Road Bridge over Little Monocacy River. The existing bridge, built in 1971, is a 49-foot long single span structure with steel beams and corrugated metal deck. The existing clear roadway width is 14'-9" with one lane on the bridge carrying two-way traffic. The proposed replacement bridge includes a single span steel beam structure carrying a 14'-9" roadway. The project includes approach roadway work at each end of the bridge to tie-in to the existing roadway. The bridge and road will be closed to 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 0.5 mile east of Mt. Ephraim Road in Dickerson, Maryland. This bridge is along a single point of access to the community.

CAPACITY

The Average Daily Traffic (ADT) is approximately 75 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 summer of 2024. Construction is scheduled to start in summer 2025 and be completed in fall of 2025. The bridge will be closed to traffic from June 2025 to August 2025.

PROJECT JUSTIFICATION

The proposed replacement work is necessary to provide a safe roadway condition for the travelling public. Mouth of Monocacy Road Bridge M-0043 is defined as structurally deficient due to the condition of the superstructure. Recent inspections revealed that the steel beams and bearings are in poor condition. The top and bottom flange of the exterior beam have severe pitting with up to 33 percent section loss over most of the length. The bottom flanges of exterior beams have up to 66 percent section loss at both abutments up to 1'-0" from the bearing locations. The bottom flanges and the full-height of the web at each end of the interior beams have severe section loss with pitting up to 2.5" in diameter at the beam ends. The bearings have over 50 percent section loss to the bearing plates. The bridge has posted load limits of 56,000 Gross Vehicle Weight (GVW) and 66,000 Gross Combined Weight (GCW). Implementation of this project would allow the bridge to be restored to full capacity. The 1996 approved and adopted Rustic Roads Functional Master Plan designates Mouth of Monocacy Road as Exceptional Rustic Road (E-6) from Mt. Ephraim Road to the bridge over Little Monocacy River with minimum right-of-way width 80 feet.

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 costs for this project are eligible for up to 80 percent Federal Aid.

DISCLOSURES

A pedestrian impact analysis has been completed for this project.

COORDINATION

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, and Bridge Design Project CIP 509132.

