Brighton Dam Road Bridge No. M-0229

(P501907)

Category	Transportation	Date Last Modified	01/04/20
SubCategory	Bridges	Administering Agency	Transportation
Planning Area	Olney and Vicinity	Status	Planning Stage

EXPENDITURE SCHEDULE ($000s)

Cost Elements	Total	Thru FY19	Est FY20	Total 6 Years	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Beyond 6 Years
Planning, Design and Supervision	890	-	450	440	186	254	-	-	-	-	-
Construction	1,360	-	-	1,360	-	1,360	-	-	-	-	-
TOTAL EXPENDITURES	2,250	-	450	1,800	186	1,614	-	-	-	-	-

FUNDING SCHEDULE ($000s)

Funding Source	Total	Thru FY19	Est FY20	Total 6 Years	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Beyond 6 Years
G.O. Bonds	750	-	150	600	62	538	-	-	-	-	-
Intergovernmental	1,500	-	300	1,200	124	1,076	-	-	-	-	-
TOTAL FUNDING SOURCES	2,250	-	450	1,800	186	1,614	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA ($000s)

Appropriation FY 21 Request	-	Year First Appropriation	FY19
Appropriation FY 22 Request	-	Last FY's Cost Estimate	2,250
Cumulative Appropriation	2,250		
Expenditure / Encumbrances	-		
Unencumbered Balance	2,250		

PROJECT DESCRIPTION

This project provides for the rehabilitation of the existing Brighton Dam Road Bridge No. M-0229 over Brighton Dam of Triadelphia Reservoir. This 602-foot long 15-span bridge, which is supported by Brighton Dam, is in need of repairs to the parapets, bridge deck joints, prestressed concrete beams, abutment backwalls, street lights, and approach roadways and sidewalks to enhance the safety of the traveling public and the integrity of the dam. The existing storm inlets on the approach roadways at both ends of the bridge will be improved as needed.

LOCATION

The project site is located at the Montgomery/Howard County Line approximately 1.2 miles east of the intersection of Brighton Dam Road and New Hampshire Avenue (MD 650) in Brookeville.

CAPACITY

Upon completion, the Average Daily Traffic (ADT) on the Brighton Dam Road Bridge will remain approximately 6,000 vehicles per day.

ESTIMATED SCHEDULE

The design is expected to be completed in the summer of 2020. Construction is scheduled to start in August 2021 and be completed in November 2021.

PROJECT JUSTIFICATION

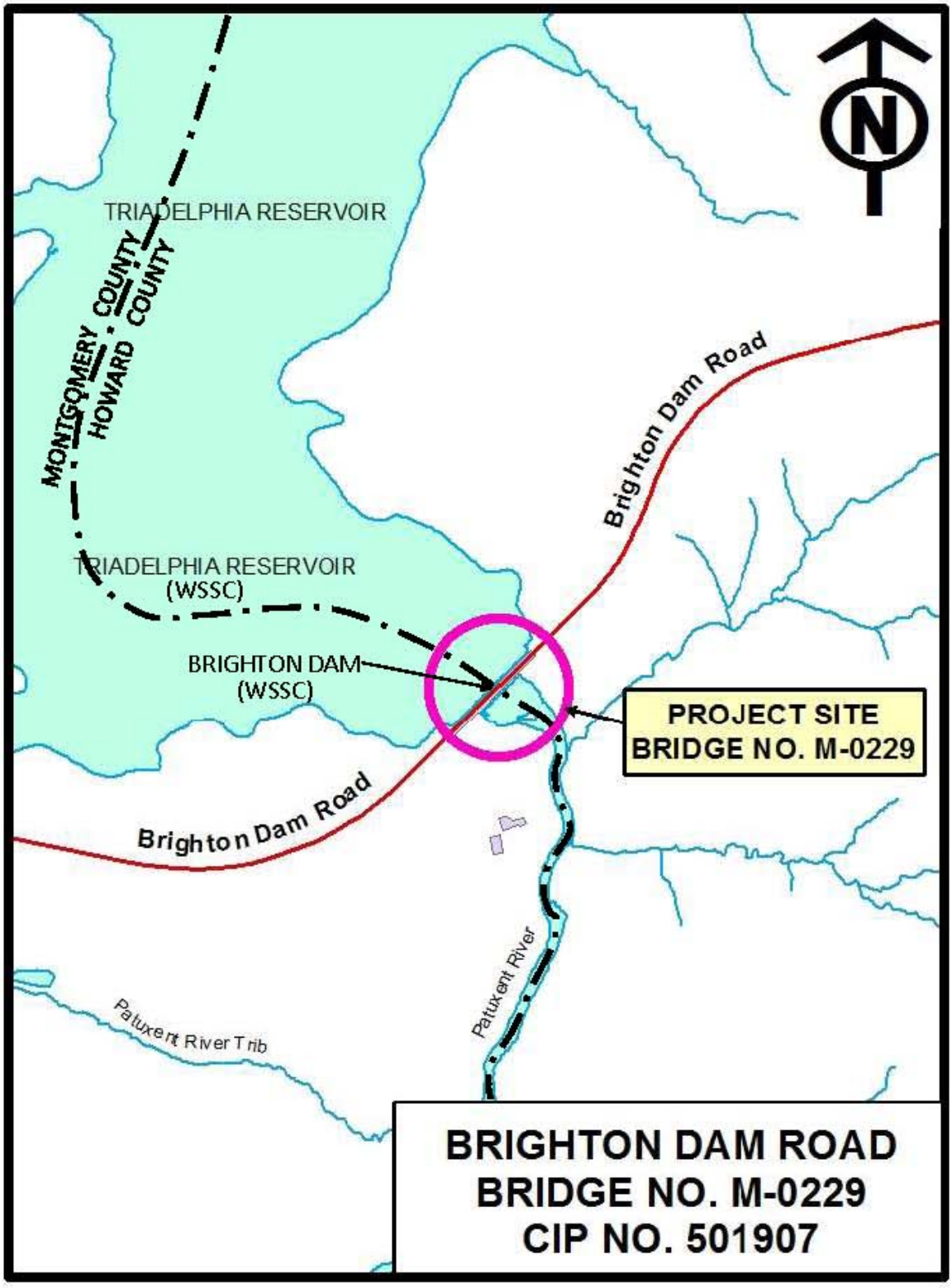
This bridge, reconstructed in 1999, requires repairs to the 1,002-foot long west parapets, 642-foot long east parapets, sixteen bridge deck joints, prestressed concrete beams, abutment backwalls, street lights, and approach roadways and sidewalks. The parapets have severe concrete spalling at many parapet joints. Prestressed concrete beams and abutment backwalls have spalling and cracking. The approach roadways and sidewalks have settlement at both ends of the bridge. The bridge deck joints have failed, allowing water and deicing chemicals to flow through the bridge deck which resulted in corrosion and deterioration to the mechanized equipment for the dam operations. Some street lights and pole supports are damaged. The improvement of storm inlets was requested by WSSC to minimize storm runoff entering into the bridge deck surface from the approach roadways. Brighton Dam Road is classified as an arterial road in the 2005 Olney Master Plan. The deterioration of the bridge was identified through the County's 2017 biennial inspection program. The bridge rehabilitation was requested by WSSC to protect the newly reconstructed dam operating equipment. Funding for this project will be shared equally between Montgomery County, Howard County and WSSC in accordance with the August 28, 1996 Agreement. A Memorandum of Understanding (MOU) between Montgomery County, Howard County and WSSC is required for this project. The funding shown as "Intergovernmental" is from Howard County and WSSC for their share of the project cost.

DISCLOSURES

A pedestrian impact analysis has been completed for this project.

COORDINATION

Washington Suburban Sanitary Commission, Howard County, Maryland Department of the Environment, Maryland Department of Natural Resources, Maryland-National Capital Park and Planning Commission, Montgomery County Department of Permitting Services, and U.S. Army Corps of Engineers.


TRIADELPHIA RESERVOIR
MONTGOMERY COUNTY
HOWARD COUNTY
Brighton Dam Road
TRIADELPHIA RESERVOIR
(WSSC)
BRIGHTON DAM
(WSSC)
PROJECT SITE
BRIDGE NO. M-0229
Brighton Dam Road
Patuxent River
Patuxent River Trib
BRIGHTON DAM ROAD
BRIDGE NO. M-0229
CIP NO. 501907