

Piney Meetinghouse Road Bridge (P501522)

Category Transportation
 Sub Category Bridges
 Administering Agency Transportation (AAGE30)
 Planning Area Potomac-Travilah

Date Last Modified 1/6/14
 Required Adequate Public Facility No
 Relocation Impact None
 Status Preliminary Design Stage

| | Total | Thru FY13 | Est FY14 | Total 6 Years | FY 15 | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | Beyond 6 Yrs |
|--|-------|--------------|----------|------------------|-------|-------|-------|-------|-------|-------|-----------------|
|--|-------|--------------|----------|------------------|-------|-------|-------|-------|-------|-------|-----------------|

EXPENDITURE SCHEDULE (\$000s)

| | | | | | | | | | | | |
|----------------------------------|--------------|----------|----------|--------------|------------|--------------|--------------|----------|----------|----------|----------|
| Planning, Design and Supervision | 512 | 0 | 0 | 512 | 0 | 254 | 258 | 0 | 0 | 0 | 0 |
| Land | 104 | 0 | 0 | 104 | 104 | 0 | 0 | 0 | 0 | 0 | 0 |
| Site Improvements and Utilities | 285 | 0 | 0 | 285 | 0 | 142 | 143 | 0 | 0 | 0 | 0 |
| Construction | 3,124 | 0 | 0 | 3,124 | 0 | 1,529 | 1,595 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 4,025 | 0 | 0 | 4,025 | 104 | 1,925 | 1,996 | 0 | 0 | 0 | 0 |

FUNDING SCHEDULE (\$000s)

| | | | | | | | | | | | |
|--------------|--------------|----------|----------|--------------|------------|--------------|--------------|----------|----------|----------|----------|
| Federal Aid | 2,807 | 0 | 0 | 2,807 | 0 | 1,377 | 1,430 | 0 | 0 | 0 | 0 |
| G.O. Bonds | 1,218 | 0 | 0 | 1,218 | 104 | 548 | 566 | 0 | 0 | 0 | 0 |
| Total | 4,025 | 0 | 0 | 4,025 | 104 | 1,925 | 1,996 | 0 | 0 | 0 | 0 |

APPROPRIATION AND EXPENDITURE DATA (000s)

| | | |
|------------------------------------|-------|-------|
| Appropriation Request | FY 15 | 4,025 |
| Appropriation Request Est. | FY 16 | 0 |
| Supplemental Appropriation Request | | 0 |
| Transfer | | 0 |
| Cumulative Appropriation | | 0 |
| Expenditure / Encumbrances | | 0 |
| Unencumbered Balance | | 0 |

| | |
|--------------------------|--------------------------------|
| Date First Appropriation | |
| First Cost Estimate | |
| Current Scope | FY 15 4,025 |
| Last FY's Cost Estimate | 0 |

Description

This project provides for the replacement of the existing Piney Meetinghouse Road Bridge over Watts Branch. The existing bridge, built in 1950, is a single span concrete T-Beam structure carrying a 24 foot roadway. The proposed replacement bridge includes a single span prestressed concrete New England Extreme Tee (NEXT) beam structure carrying a 24 foot roadway and a 4 foot shoulder on each side. This width will allow for the implementation of safe on-road bicycling, in accordance with the Master Plan. 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 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 2600 feet north of the intersection of River Road and Piney Meetinghouse Road.

Capacity

The roadway Average Daily Traffic (ADT) is approximately 5,400 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 2014. Land will be purchased in FY15. Construction is scheduled to start in spring 2016 and be completed in fall of 2016. Bridge will be closed to traffic from June 2016 to August 2016.

Justification

The proposed replacement work is necessary to provide a safe roadway condition for the travelling public. The 2011 bridge inspection revealed that the concrete T-beams are in poor condition. All beams have several horizontal cracks with heavy efflorescence approximately 2" below the underside of the deck. The beams have several isolated spalls with exposed rebar. The undersides of the beams have moderate to severe scaling with exposed stirrups at several locations. All four wingwalls have a 1 foot 6 inch high band of minor scaling above the waterline. There are heavy efflorescence and spalls for both abutments. The bridge is considered structurally deficient. Implementation of this project would allow the bridge to be restored to full capacity.

The Potomac Subregion Master Plan designates Piney Meetinghouse Road as Arterial (A-34) with a minimum right-of-way of 80 feet. The Countywide Bikeways Functional Master Plan calls for dual bikeway – shared use path and signed shared roadway (DB-23). 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

Piney Meetinghouse Road Bridge (P501522)

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