

# Storm Drain Culvert Replacement (P501470)

Category Conservation of Natural Resources  
 Sub Category Storm Drains  
 Administering Agency Transportation (AAGE30)  
 Planning Area Countywide

Date Last Modified 8/19/16  
 Required Adequate Public Facility No  
 Relocation Impact None  
 Status Ongoing

Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	1,905	728	97	1,080	180	180	180	180	180	180	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	10,793	3,451	1,222	6,120	1,020	1,020	1,020	1,020	1,020	1,020	0
Other	2	2	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>12,700</b>	<b>4,181</b>	<b>1,319</b>	<b>7,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>0</b>

### FUNDING SCHEDULE (\$000s)

G.O. Bonds	1,500	1,500	0	0	0	0	0	0	0	0	0
Water Quality Protection Bonds	7,200	0	0	7,200	1,200	1,200	1,200	1,200	1,200	1,200	0
Water Quality Protection Charge	4,000	2,681	1,319	0	0	0	0	0	0	0	0
<b>Total</b>	<b>12,700</b>	<b>4,181</b>	<b>1,319</b>	<b>7,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 18	1,200
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		6,700
Expenditure / Encumbrances		4,878
Unencumbered Balance		1,822

Date First Appropriation	FY 14
First Cost Estimate	
Current Scope	FY 17 12,700
Last FY's Cost Estimate	12,700

## Description

This program will provide for the replacement of failed storm drain pipes and culverts. The County's storm drain infrastructure is aging and many of the metal pipe culverts installed from 1960 through the 1990's have reached the end of their service life. Currently no asset inventory with condition assessment exists; therefore no funding is programmed for systematic replacement of these pipes and culverts. This program will provide for emergency culvert replacement and provide for funding to assist in the development of an asset inventory program to better forecast future replacement needs. This program includes: storm water pipe and culvert replacement of both metal and concrete less than six (6) feet in roadway longitudinal length (structures greater than six feet roadway longitudinal length are repaired under the Bridge Renovation Program, CIP#509753), headwalls, end sections, replacement, or extension of culverts to assure positive flow of storm water and channeling of storm water into existing ditch lines or structures. Repairs also include roadside pipe and culvert end treatment safety improvements to eliminate safety hazards. This project will not make major changes to the location or size of existing storm drainage structures.

## Cost Change

Addition of FY21 and FY22 to this ongoing project

## Justification

This program will address emergency pipe replacements of aging metal and concrete pipes that have reached the end of their service life. The result of these pipe failures has been deep depressions, sinkholes, sediment build up, open pipe joints and metal pipe inverts to an unacceptable levels. Existing storm drain conditions are extremely poor. Repairs are needed to improve safety and reduce the potential for hazards and associated public inconvenience. Failure of a storm drain pipe will precipitate emergency repairs at much higher prices. Further, this program will provide some funding towards the development of an asset inventory of the storm drain system including pipe and culvert conditions for future funding forecasting.

## Disclosures

Expenditures will continue indefinitely.

## Coordination

Washington Suburban Sanitary Commission, Washington Gas Company, Department of Permitting Services, Pepco, Cable TV, Verizon, Montgomery County Public Schools, Regional Service Centers, Community Associations, Commission on People With Disabilities, Maryland Department of Environment, Montgomery County Department of Environmental Protection, Army Corps of Engineers