Milestone Center Sewer Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000084.67	173804	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	
Drainage Basins	Seneca Creek 15
Planning Areas	Germantown & Vicinity PA 19

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	418	288		130	130						
Land											
Construction	345			345	324	21					
Other	71			71	68	3					
Total	**834**	**288**		**546**	**522**	**24**					

C. Funding Schedule (000's)

Contributions/Other	834	288		546	522	24					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 1,860 feet of 18-inch diameter sewer main to serve the new Milestone development.

JUSTIFICATION

Milestone Development Amended Hydraulic Planning Analysis and Letter of Findings #2 (January 2016).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The expenditures and schedule projection shown in Block B are based upon information provided by the developer. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$38	
Debt Service		
Total Cost	$38	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

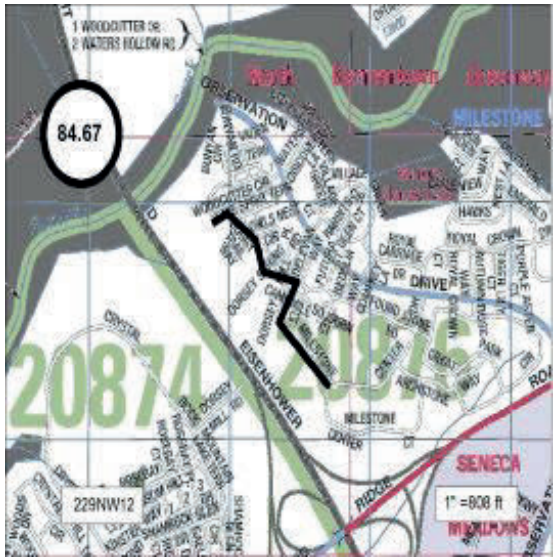
Date First in Program	FY 18
Date First Approved	FY 18
Initial Cost Estimate	504
Cost Estimate Last FY	657
Present Cost Estimate	834
Approved Request Last FY	507
Total Expense & Encumbrances	288
Approval Request Year 1	522

G. Status Information

Land Status	Not Applicable
Project Phase	Design
Percent Complete	0 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	2.83 MGD

H. Map



Clarksburg Wastewater Pumping Station & Sewer Improvements

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000084.68	173802	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	
Drainage Basins	Seneca Creek 15
Planning Areas	Clarksburg & Vicinity PA 13

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	1,305	1,088	180	37	37						
Land	166	166									
Construction	3,000		2,500	500	500						
Other	483		402	81	81						
Total	**4,954**	**1,254**	**3,082**	**618**	**618**						

C. Funding Schedule (000's)

SDC	4,954	1,254	3,082	618	618						

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 0.94 MGD wastewater pumping station and 1,270 feet of force main. The new wastewater pumping station and force main will provide service to the Miles property and the Clarksburg Historic District.

JUSTIFICATION

Clarksburg Master Plan & Hyattstown Special Study Area (Approved and Adopted, June 1994). Ten Mile Creek Area Limited Amendment to Clarksburg Master Plan and Hyattstown Special Study Area (Approved July 2014). Clarksburg - Ten Mile Creek Area Sewer Facility Study Business Case, CDM Smith (March 2015).

COST CHANGE

The projected cost of the combined Clarksburg Wastewater Pumping Station and the Clarksburg WWPS Force Main projects has decreased significantly due to revisions in the estimated construction cost based on the final design.

OTHER

The project scope has been revised to include the Clarksburg WWPS Force Main project . The schedule and expenditure projections shown in Block B above are based on the final design estimate and may change based upon actual bid. Planning work for this project began in FY '17 under ESP project S-602.61, Clarksburg - Ten Mile Creek Area Study. The Montgomery County Planning Board endorsed the Study recommendation Alternative 12 on May 26, 2016. The Montgomery County Council adopted a resolution supporting the Study recommendation on July 12, 2016. No WSSC rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland-National Capital Park & Planning Commission; Montgomery County Department of Environmental Protection; Montgomery County Government
Coordinating Projects: S - 000084.69 - Clarksburg WWPS Force Main

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

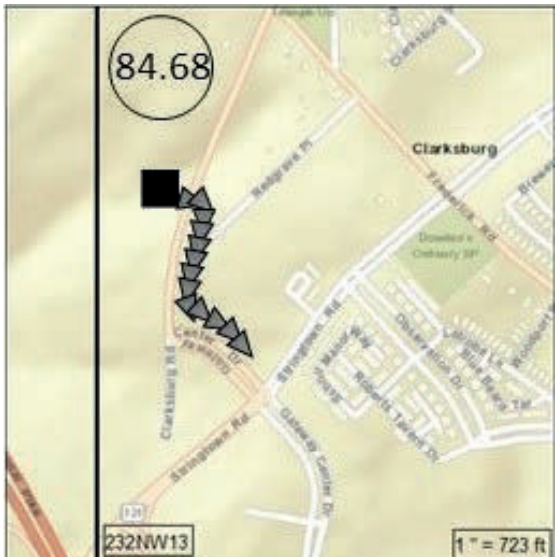
Date First in Program	FY 18
Date First Approved	FY 18
Initial Cost Estimate	4,542
Cost Estimate Last FY	5,824
Present Cost Estimate	4,954
Approved Request Last FY	1,357
Total Expense & Encumbrances	1,254
Approval Request Year 1	618

G. Status Information

Land Status	Land Acquired
Project Phase	Construction
Percent Complete	0 %
Estimated Completion Date	August 2020

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	0.94 MGD

H. Map



Shady Grove Station Sewer Augmentation

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000085.21	153800	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	
Drainage Basins	Rock Creek 05
Planning Areas	Gaithersburg & Vicinity PA 20

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	574	511	30	33	20	12	1				
Land											
Construction	5,565	8	277	5,280	5,000	200	80				
Other	843		46	797	753	32	12				
Total	**6,982**	**519**	**353**	**6,110**	**5,773**	**244**	**93**				

C. Funding Schedule (000's)

Contributions/Other	6,982	519	353	6,110	5,773	244	93				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 3,600 feet of 15-inch to 18-inch diameter sewers. These sewers will replace an existing 10-inch diameter sewer main near Crabbs Branch Creek and CSX Railroad and terminate at a manhole approximately 300 feet southeast of Redland Road.

JUSTIFICATION

The new 15-inch and 18-inch diameter sewers will serve the area encompassed by Shady Grove Road, I-370, and CSX Railroad.
Due to the development density proposed in DA5409Z12, the projected peak wastewater flow exceeds the capacity of existing sewers.

COST CHANGE

The current schedule and expenditure estimates reflect updated information provided by the developer.

OTHER

The project scope has remained the same. The expenditures and schedule projections shown in Block B are based upon information provided by the developer. Design and construction will be performed by the developer under a Systems Extension Permit. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$73	
Debt Service		
Total Cost	$73	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

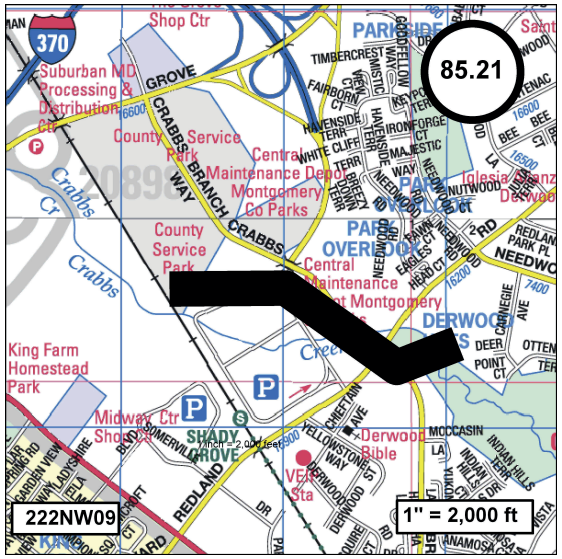
Date First in Program	FY 15
Date First Approved	FY 15
Initial Cost Estimate	2,254
Cost Estimate Last FY	2,538
Present Cost Estimate	6,982
Approved Request Last FY	1,245
Total Expense & Encumbrances	519
Approval Request Year 1	5,773

G. Status Information

Land Status	Not Applicable
Project Phase	Design
Percent Complete	50 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	5,500
Capacity	1.0 - 3.0 MGD

H. Map



Shady Grove Neighborhood Center

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000085.22	382102	Add

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	
Drainage Basins	Watts Branch 16
Planning Areas	Gaithersburg & Vicinity PA 20

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	527		350	177	89	88					
Land											
Construction	2,493		293	2,200	1,100	1,100					
Other	371		15	356	178	178					
Total	**3,391**		**658**	**2,733**	**1,367**	**1,366**					

C. Funding Schedule (000's)

Contributions/Other	3,391		658	2,733	1,367	1,366					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design and construction of 3,600 feet of 15-inch sewer main and 875 feet of 18-inch sewer main to serve the Shady Grove Neighborhood Center Subdivision.

JUSTIFICATION

Shady Grove Neighborhood Center Planning Analysis (March, 2019). The existing sewer system cannot handle the projected flows that will be generated by the Shady Grove Neighborhood Center. The timing and scheduling of this project is dependent on the developer.

COST CHANGE

Not applicable.

OTHER

The present project scope was developed for the FY2021 CIP and has an estimated total cost of $3,391,000. The expenditures and schedule projections shown in Block B are based on information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$90	
Debt Service		
Total Cost	$90	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY 21
Date First Approved	FY 21
Initial Cost Estimate	
Cost Estimate Last FY	
Present Cost Estimate	3,391
Approved Request Last FY	
Total Expense & Encumbrances	
Approval Request Year 1	1,367

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	40 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	7,000
Capacity	1.40 to 2.45 MGD

H. Map

Damascus Town Center WWPS Replacement

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000094.13	382002	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	
Drainage Basins	Patuxent North 26; Seneca Creek 15
Planning Areas	Damascus & Vicinity PA 11

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	1,658	215	464	979	567	180	180	52			
Land											
Construction	6,778			6,778		2,343	4,280	155			
Other	1,233		70	1,163	85	378	669	31			
Total	**9,669**	**215**	**534**	**8,920**	**652**	**2,901**	**5,129**	**238**			

C. Funding Schedule (000's)

WSSC Bonds	6,768	150	374	6,244	456	2,031	3,590	167			
SDC	2,901	65	160	2,676	196	870	1,539	71			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design and construction of a 0.416 MGD wastewater pumping station (WWPS), approximately 2,100 LF of gravity sewer and 2,100 LF of force main (FM). The new WWPS and associated FM and gravity sewer will provide service to the existing and future Damascus Town Center service area.

JUSTIFICATION

The existing pumping station, which is over thirty-five years old, was originally built as a privately owned facility and did not conform to WSSC standards. The pumping station was taken over by WSSC in the late 1970s. It has reached the end of its useful life and replacement parts are obsolete. Additionally, the capacity of the pumping station must be increased to accommodate the future service area in accordance with the Maryland National Capital Park and Planning Commission Damascus Master Plan. The Asset Management Office Business Case CNPV7 recommended the pumping station replacement.

COST CHANGE

Not applicable.

OTHER

The project scope remained the same. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and may change based upon site conditions and design constraints. Planning work began in FY'18 under ESP project S-602.01, Damascus Town Center WWPS Replacement. Land costs are included in WSSC project S-203.00.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Environmental Protection; Montgomery County Department of Public Works and Transportation; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$440	25
Total Cost	$440	25
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY20
Date First Approved	FY20
Initial Cost Estimate	9,460
Cost Estimate Last FY	9,460
Present Cost Estimate	9,669
Approved Request Last FY	520
Total Expense & Encumbrances	215
Approval Request Year 1	652

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	Planning
Percent Complete	5 %
Estimated Completion Date	June 2024

Growth	30%
System Improvement	70%
Environmental Regulation	
Population Served	854
Capacity	0.416 MGD

H. Map

MAP NOT APPLICABLE

Spring Gardens WWPS Replacement

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000094.14	382003	Change

PDF Date	October 1, 2019
Date Revised	

Pressure Zones	
Drainage Basins	Monocacy 25
Planning Areas	Damascus & Vicinity PA 11

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'19	Estimate FY'20	Total 6 Years	Year 1 FY'21	Year 2 FY'22	Year 3 FY'23	Year 4 FY'24	Year 5 FY'25	Year 6 FY'26	Beyond 6 Years
Planning, Design & Supervision	2,710	343	400	1,967	613	824	412	118			
Land	140	140									
Construction	6,901			6,901		1,000	4,150	1,751			
Other	1,297		60	1,237	92	274	684	187			
Total	**11,048**	**483**	**460**	**10,105**	**705**	**2,098**	**5,246**	**2,056**			

C. Funding Schedule (000's)

WSSC Bonds	3,646	159	152	3,335	233	693	1,731	678			
SDC	7,402	324	308	6,770	472	1,405	3,515	1,378			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 1.3 MGD wastewater pumping station, 7,500 LF of force main, and 900 LF of gravity sewer. The relocated wastewater pumping station and force main will provide service to the existing and future Spring Gardens service area.

JUSTIFICATION

The existing pumping station and force main are over forty-one years old and have reached the end of their useful lives. Additionally, the existing capacity of the pumping station must be increased to accommodate build-out of the service area and therefore it must be replaced with a new facility rated at 1.3 MGD. The Asset Management Office Business Case CNPV6 recommended the pumping station replacement.

COST CHANGE

Not applicable.

OTHER

The project scope remained the same. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and may change based upon site conditions and design constraints. Planning work began in FY'18 under ESP project S-602.26, Spring Gardens WWPS Replacement.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$170	25
Debt Service	$237	25
Total Cost	$407	25
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY 20
Date First Approved	FY 20
Initial Cost Estimate	10,180
Cost Estimate Last FY	10,320
Present Cost Estimate	11,048
Approved Request Last FY	921
Total Expense & Encumbrances	483
Approval Request Year 1	705

G. Status Information

Land Status	Land Acquired
Project Phase	Planning
Percent Complete	5 %
Estimated Completion Date	June 2024

Growth	67%
System Improvement	33%
Environmental Regulation	
Population Served	
Capacity	1.3 MGD

H. Map

MAP NOT APPLICABLE