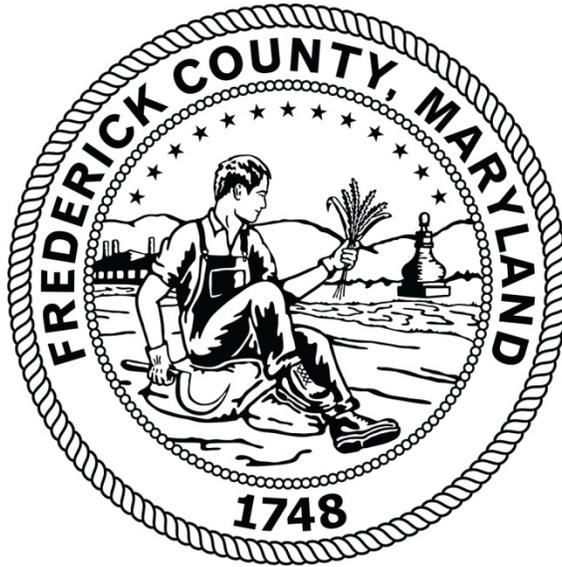


# FREDERICK COUNTY

## APPROVED CAPITAL IMPROVEMENTS PROGRAM FISCAL YEARS 2017 – 2022



JUNE 2016

**FREDERICK COUNTY  
CAPITAL IMPROVEMENT PROGRAM  
FISCAL YEARS 2017 – 2022**

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# INTRODUCTION

The approved six year Capital Improvement Program (CIP) for fiscal years 2017 – 2022 is hereby presented.

Only projects that meet the definition of a capital improvement are included in the CIP. Capital improvements are defined as:

- will add to the government’s public infrastructure OR
- will result in a major repair of a fixed asset that significantly adds to or preserves the life of the original asset OR
- will establish or enhance internal computer/program systems. This excludes routine expenses such as maintenance, license renewals, etc.

The project will also have an individual project cost totaling \$100,000 or more. Projects of less than \$100,000 will only be permitted when required for State or Federal funding; and multiple projects in a single category, totaling \$100,000 or more, will also be considered if they meet all other characteristics.

Acquisition of land for future projects (land banking) will be eligible when it has been identified as a need in the six-year CIP, in the County Comprehensive Plan, or when it can be shown as necessary and based on recent growth trends.

Municipal projects will be considered if the project is not exclusively for municipal residents or if the project is a cooperative effort by municipal, county and/or state agencies.

The approved CIP was able to identify full or partial funding for 111 projects that totaled \$662,959,411.

In order to balance priorities and funding some projects had to be pushed back from what was requested and from last year’s approved timing.

CATEGORY	APPROVED
General Government	\$ 104,570,564
Water and Sewer	104,149,750
Solid Waste	0
Parks & Recreation	40,939,729
Watershed Restoration	26,144,211
Transportation	139,676,680
Community College	23,728,383
Board of Education	217,393,872
Municipalities	6,356,222
<b>Total</b>	<b>662,959,411</b>

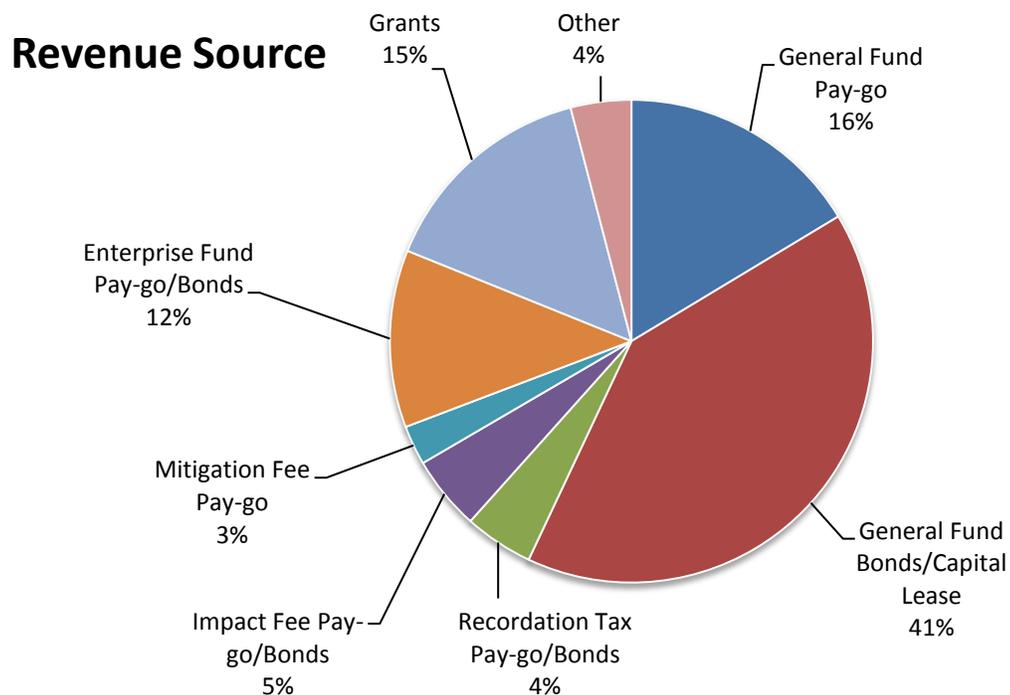


## REVENUE SOURCES

Funding for the Capital Improvements Program comes from many sources, primarily pay-go (general fund, recordation tax, and impact fee), bonds (general fund, recordation tax, and impact fee), enterprise user fees, state & federal grants and developer participation. Many of the revenue sources are slowly increase in FY2016 and in the remaining years. However, balancing the cash needs with available debt affordability will continue to have an impact on the CIP.

	<b>APPROVED</b>
General Fund*	\$ 108,471,650
General Fund Bonds/Lease	269,387,683
Recordation Taxes - Parks	13,824,134
Recordation Tax Bonds - Parks	11,622,348
Recordation Taxes - Schools	5,150,000
Impact Fees - Library	3,653,405
Impact Fees -Schools	24,280,755
Impact Fee Bonds -Schools	5,000,000
Mitigation Fees - Schools	17,500,000
Enterprise Fund Pay-go	11,126,048
Enterprise Fund Bonds	67,710,980
Grants - State	89,779,388
Grants - Federal	8,559,000
Municipal	8,591,020
Other	18,303,000
<b>Total</b>	<b>\$ 662,959,411</b>

\*Includes \$5.26 million from reserve funds



Adopted CIP Policies require the County to attempt to budget as pay-go for capital improvements an amount equal to 7% of General Fund operating revenues. General Fund, impact fee, and recordation pay-go are considered in total in meeting this goal. The FY17-22 CIP does not have pay-go funding allocated to meet this goal for the 6-year period or any of the years individually, except FY2018.

With the adoption of the FY2017 General Fund operating budget, \$13.06 million is allocated to the Capital Budget. The \$13.06 million represents 2.4% of General Fund operating revenue. Approximately \$85.7 million is projected for the remaining five years of the CIP. (These figures are exclusive of the reserve funds)

Since 1993, Impact Fees have provided additional revenue to address public school construction needs. Impact fees to aid library construction were added in 2001. These fees are levied upon newly constructed housing units throughout the County and are applied directly toward the funding of school and library projects and the debt service on impact fee bonds. Impact fee revenue, is projected based on the following: for a single family home, the school impact fee will be \$14,112.50 and the library impact fee will be \$768.

Approximately 71% of the current school impact fees collected are committed to the payment of Impact Fee Bond debt service. Over the FY 2017-2022 period, school impact fees are projected to generate \$69.6 million. During this same period library impact fees are estimated to generate \$3.7 million. Over the six year program, approximately \$24.3 million in pay-go is allocated for new or expanded elementary construction projects and \$3.65 million in pay-go is allocated for new or expanded library construction projects.

In 2001, a Building Excise Tax was levied to finance public road and bridge projects. Revenue derived from the Building Excise Tax may be used on County roads as well as State roads. However, the County must match money expended from the building excise tax with funds from other sources. In November 2011, the rate was reduced to \$0.00 and the remaining building excise tax revenue is allocated to fund road and bridge projects.

As of 2000, a percentage of the proceeds from Recordation taxes have been dedicated to Parks and Recreation capital projects. Effective January 1, 2012 (and to continue for five years), the percentage rate is set at 5.0% and then returns to 12.5%. Over the six year program, approximately \$13.8 million in pay-go and \$11.6 million in bonds from Recordation Tax proceeds are allocated to fund acquisition and development of recreational and open space land.

In late FY 2007, an additional percentage of the proceeds from Recordation taxes were dedicated for pay-go and debt service to support school construction. For the 2017-22 CIP time frame the percentage rate is set at 16.67%. Over the six-year program, approximately \$27.7 million from Recordation Tax proceeds will be used to pay debt service on recordation bonds issued for school construction. In addition, \$5.2 million in pay-go is allocated to fund school construction.

State and Federal Grants are another source of CIP funding. Approximately \$98.3 million is projected to be available to fund various projects. Of this, \$89.7 million is projected to be forthcoming from the State, most of which is funding for school construction projects.

Enterprise fees, generated within the Water & Sewer and Solid Waste enterprise funds, are the primary funding source for projects within these program areas. In addition, general obligation bonds are also issued, with the debt service paid by these enterprise fees. \$11.1 million in pay-go and \$67.7 million in bonds are allocated in the FY17-22 CIP.

In addition to the previously identified revenue sources, a significant resource (as an alternative to raising taxes) available to the County to produce supplemental revenue is the issuance of General Fund general obligation bonds. This revenue source is the equivalent of borrowing future money, at a fixed rate of interest, for the purpose of paying today's bills. This source of funding is used for capital expenditures that have a long-term useful life and thus the use of the future funds to pay for them is appropriate.

The authority for the issuance of general obligation bonds is granted through enactment of legislation by the County Council. In order to establish a safe level of debt, the County commissioned a study, which facilitated the establishment of a Debt Affordability limit. This limit assists in the establishment of sound fiscal management policies for the County, and helps to ensure the maintenance, or possible improvement, of the County's credit rating. In June 2016, the County's bond rating was reviewed by Standard and Poor's, Fitch, and Moody's Investors Service, Inc., which resulted in sustaining AAA, AAA, Aaa ratings respectively.

The Debt Affordability Limits Study recommended the use of Debt Affordability standards, and the following are being used:

- General Fund G.O. debt service, as a percentage of General Fund revenue, should be limited to 8.6%
- General Fund debt, as a percent of assessed valuation, should be limited to 1.56%
- General Fund debt, as a percent of General Fund Revenue, should be limited to 82.6%
- Total G.O. debt service, as a percent of General Fund Revenue, should be limited to 17.2%

The Debt Affordability model assumes the County's annual population growth rate between 1.0% and 1.2%, an assessed valuation growth rate between 2.25% and 4.00%, annual revenue growth in General Fund Revenues between 3.2% and 4.0%, and an interest rate of 5.00% on new debt. The Debt Affordability model projects a total six-year General Fund debt capacity of \$296.61 million for the period FY17-FY22.

Table 1  
 Debt Issuance for General Government Purposes  
 Projected General Fund Debt Affordability  
 Vs.  
 Updated CIP Projects for FY 2017-FY 2022  
 (\$ millions)

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	<b>Total Debt Cap</b>
Affordable Debt	25.50	46.13	70.10	52.88	52.99	49.01	<b>296.61</b>
Updated Debt	31.02*	81.88*	67.39*	33.10*	59.86*	32.45*	<b>305.70</b>
Cumulative Excess (Deficit)	(5.52)	(41.27)	(38.56)	(18.78)	(25.65)	(9.09)	<b>(9.09)</b>

\*adjusted for deficiency in pay-go funding which would need to be supplemented with debt funding

As Table 1 shows, Part 1 – CIP update submission for Capital funds was not within the County’s ability to meet the needs and still remain within the established Debt Affordability. Therefore some projects were delayed.

Table 2  
 Debt Issuance for General Government Purposes  
 Projected General Fund Debt Affordability  
 Vs.  
 Approved FY 2017-FY 2022 CIP  
 (\$ millions)

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	<b>Total Debt Cap</b>
Affordable Debt	25.50	46.13	70.10	52.88	52.99	49.01	<b>296.61</b>
Approved Debt	22.80	42.86	66.13	62.51*	45.67*	35.58*	<b>275.55</b>
Cumulative Excess (Deficit)	2.70	5.97	9.94	0.31	7.63	21.06	<b>21.06</b>

\*adjusted for deficiency in pay-go funding which would need to be supplemented with debt funding

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# PROJECT SUMMARY

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

**SUMMARY - ALL PROJECTS**

PROJECT	6-Year **									
	Approved	Total Project	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
General Government	104,570,564	191,741,051	24,268,507	10,197,612	14,768,293	22,667,750	10,804,800	15,235,965	30,896,144	62,901,980
Water and Sewer	104,149,750	133,067,632	25,512,500	39,209,000	1,332,750	1,228,000	2,640,000	5,574,000	54,166,000	3,405,382
Solid Waste	0	0	0	0	0	0	0	0	0	0
Parks & Recreation	40,939,729	62,214,457	11,320,431	7,570,367	2,725,566	18,581,348	3,082,841	6,977,020	2,002,587	9,954,297
Watershed Restoration and Retrofit	26,144,211	28,241,396	2,097,185	4,116,148	5,781,867	6,156,335	8,089,861	1,000,000	1,000,000	0
Roads	25,596,040	79,961,090	10,838,550	2,041,948	891,492	13,424,100	7,194,200	1,120,000	924,300	43,526,500
Bridges	9,856,100	12,837,300	1,870,600	3,693,100	365,700	471,200	1,940,800	2,333,700	1,051,600	1,110,600
Highways	104,224,540	135,724,473	31,499,933	11,483,350	15,976,800	21,582,390	21,383,000	18,344,800	15,454,200	0
Community College	23,728,383	28,776,287	5,047,904	7,553,626	1,250,000	1,150,000	1,299,050	10,450,000	2,025,707	0
Board of Education	217,393,872	470,350,940	105,293,743	37,065,681	80,073,605	14,595,500	36,255,886	35,106,700	14,296,500	147,663,325
Municipalities	6,356,222	9,395,243	3,039,021	2,640,000	3,200,000	0	416,222	50,000	50,000	0
<b>Total Expense</b>	<b>662,959,411</b>	<b>1,152,309,869</b>	<b>220,788,374</b>	<b>125,570,832</b>	<b>126,366,073</b>	<b>99,856,623</b>	<b>93,106,660</b>	<b>96,192,185</b>	<b>121,867,038</b>	<b>268,562,084</b>
<b>FUNDING</b>										
General Fund*	108,471,650	250,493,000	46,987,921	13,497,192	16,380,006	18,647,234	19,039,763	18,593,727	22,313,728	95,033,429
General Fund Bonds & Capital Lease*	269,387,683	520,912,896	107,353,220	22,803,530	42,862,569	66,126,275	60,702,503	44,969,778	31,923,028	144,171,993
Recordation Tax & Bonds	30,596,482	51,484,317	16,220,855	9,552,243	1,704,523	10,723,547	3,054,523	5,109,313	452,333	4,666,980
Impact Fee & Bonds	32,934,160	41,347,565	418,405	5,329,000	18,605,160	0	4,000,000	5,000,000	0	7,995,000
School Mitigation Fee	17,500,000	27,500,000	0	0	12,500,000	0	0	5,000,000	0	10,000,000
Excise Tax	0	949,962	949,962	0	0	0	0	0	0	0
Enterprise Fee & Bonds	78,837,028	89,601,886	8,888,740	25,861,100	1,748,048	1,534,000	0	4,676,600	45,017,280	1,876,118
Grants	98,338,388	124,748,553	23,120,865	25,294,867	20,867,767	14,107,567	11,319,871	13,736,367	13,011,949	3,289,300
Other	26,894,020	45,271,690	16,848,406	23,232,900	11,698,000	(11,282,000)	(5,010,000)	(893,600)	9,148,720	1,529,264
<b>Total Funding Source</b>	<b>662,959,411</b>	<b>1,152,309,869</b>	<b>220,788,374</b>	<b>125,570,832</b>	<b>126,366,073</b>	<b>99,856,623</b>	<b>93,106,660</b>	<b>96,192,185</b>	<b>121,867,038</b>	<b>268,562,084</b>

\* Includes funding to/from "appropriation for future years"  
 \*\* 6-Year Approved is the sum of FY2017 through FY2022

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## SUMMARY OF PROJECT TIMING

		Prior Cnstr Date	New Cnstr Date	Changes from FY2016-2021 Approved & Notes
<b>GENERAL GOVERNMENT</b>				
GG1022	Sanner Property Fire Station	2020	Out Years	Renamed from No. Frederick Fire Station
GG1024	Green Valley Fire Station Renovations	2018	REMOVED	ABANDONING PROJECT
GG1026	Public Safety Training Facility Burn Building	Prior	Add'l Funds	
GG1027	Hayward Road Fire Station		2019	New Project
GG1028	Green Valley Fire Station at Monrovia Town Center		Out Years	New Project; Design 2022
GG1081	Mobile Data Terminals (DFRS)	Prior		Fully Funded
GG1080	SCBA Replacement	Out Years	2022	On-going Replacement Cycle
GG1082	Fire Rescue portable radio replacement and enhancement	2019/Out Years	2019/22	On-going Replacement Cycle
GG1083	Advanced Life Support Cardiac Monitors	2016/17	2016/17	Scope Change
GG1084	DFRS Records Management System		2018	New Project
GG1098	Fire Apparatus and Vehicle Replacement	On-Going	On-Going	A Portion was Moved to the General Fund for an Equipment Operating Lease
GG1105	Adult Detention Center Storage Building	2019	Out Years	As Requested
GG1106	ADC Medical Unit Addition		2022	New Project
GG1152	Sheriff's Office In-Car Video Cameras	2018	2018	
GG1194	Urbana tower site	Out Years	Out Years	
GG1193	Communications site security	2016/17	2016/17	
GG1195	Communications Support Vehicle		2022	New Project
GG1196	Radio system SCADA upgrade		2019	New Project
GG1197	Radio system capacity enhancement		2021	New Project
GG2010	300 Scholl's Lane Renovation	2018	2018	
GG2018	Courtroom Renovation (Courthouse)	Prior		Fully Funded
GG2019	Courthouse Capacity Improvements Project	V. Phases	Out Years	Scope Change; Desgin 2021
GG2020	Sagner Ave Renovations	Prior		Fully Funded; Renamed from Family Partnership to Alternate Location
GG2030	Public Safety Training Facility Maintenance Shop and Garages	Out Years	Out Years	Design 2022
GG2031	Montevue Campus Refueling Station	Out Years	2022	Scope Change
GG2032	Health Department Parking Expansion		2018	New Project
GG2033	Transit Facility Expansion		2018	New Project
GG2034	Pine Avenue Maintenance Complex Renovations		2022	New Project
GG3003	Walkersville Library	2017	2017	
GG3004	Myersville Library	Out Years	2019	
GG3005	Middletown Library		Out Years	New Project; Desgin in 2022
GG4013	Animal Health Lab - Generator		2017	Requested by State agency; Will be Funded by the State
GG4199	Maintenance Systemics - General	On-Going	On-Going	On-going
GG5001	IIIT Systemics- General	On-Going	On-Going	
GG5005	LEAPS	On-Going	On-Going	Upgrade in 2019/2020
GG5006	Enterprise GIS FY09 ongoing	On-Going	On-Going	

Prior Cnstr Date      New Cnstr Date      Changes from FY2016-2021 Approved & Notes

**GENERAL GOVERNMENT cont'd**

GG5007	ERP System - Software	Prior	Prior	Moved Funding from Financial System FY09 ongoing
GG5008	Financial System FY09 ongoing	On-Going	On-Going	
GG5009	Land Management	2018/19	2018/19	
GG5010	EAM & Fleet Mgt System - Software		2018	New Project
GG5015	Treasury System	2018/21	2018/21	

**WATER AND SEWER**

WS1001	Ballenger-McKinney WWTP Sludge Management	2020	2022	As Requested
WS1002	Sewerage Problem Area Remediation	Out Years	Out Years	
WS1012	Linganore Interceptor 1 - Lower Reach	2021	Out Years	As Requested
WS1013	Linganore Interceptor 2 - Upper Reach	Out Years	Out Years	
WS1017	Water Storage Tank Improvements	2017	2017	
WS1022	Lake Linganore Dredging		Add'l Funds	
WS1023	Monrovia Water Storage Tank 2	2020	2020	
WS1024	Sewer Flow Metering	Prior	Add'l Funds	
WS1026	Monocacy Wastewater Pump Station & Force Main	Prior	Add'l Funds	Name Change from Wastewater Pump Station 1B
WS1027	Ballenger Water Tank painting	2018	2018	
WS1028	Developer-Funded Infrastructure	On-Going	On-Going	
WS1029	Ceresville Sewage Pump Station Headworks	2016		Fully Funded
WS1030	County-City Study Sewerage and Water Supply System Consolidation	2016		Fully Funded
WS1031	Countryside Outside Meter Installation	2016		Fully Funded
WS1032	Lewistown Wastewater Treatment Plant Improvements		2017	New Project
WS1033	Lewistown Wastewater Collection System		2018	New Project
WS1034	Grease Receiving Station at Ballenger-McKinney WWTP		2019	New Project
WS1035	Truck Scale at New Design Water Treatment Plant		2021	New Project
WS1036	Route 355 Water Main Relocations		2017	New Project

**PARKS & RECREATION**

PR0001	Acquisition	On-Going	On-Going	Moved Funding to Othello Regional Park for Expansion of Scope and to the Park School in FY18
PR1017	Synthetic Turf Multi-Purpose Field - Utica District Park	2020	REMOVED	Combined w/ Utica DP - Phase 2
PR1022	Othello Regional Park	2017	2017	
PR1026	Old National Pike DP - Ph 2	Out Years	Out Years	Delayed 1 Year; Design in 2021
PR1028	Middletown CP Development & Rehab	2021	2021	
PR1031	Point of Rocks Regional Park Master Plan		2021	New Project
PR1032	Utica DP - Phase 2	2019	2019	Added Turf Field from Separate Project
PR2000	Parks Systemic	On-Going	On-Going	
PR2003	Kempton CP - Rehabilitation	2017	2017	

Prior Cnstr Date      New Cnstr Date      Changes from FY2016-2021 Approved & Notes

**PARKS & RECREATION cont'd**

PR2008	Fountain Rock Lime Kiln Stabilization & Repair	2016		Fully Funded
PR2009	Ballenger Creek Park Maintenance Area & Widrick House Rehabilitation		2022	New Project; Study ONLY
PR3001	Bikeways/Trails Program	2017/19	2018/20	As Requested - Delayed 1 year
PR3005	Bridgeport Monocacy River Access		2022	New Project; Master Plan ONLY
PR3501	Park Schools	2017/18	1 in 2018	
PR8002	South County YMCA, Indoor Pool Partnership	Out Years	2019-2022	

**WATERSHED RESTORATION & RETROFIT**

WR1022	Englandtowne SW Pond Retrofit	2015/16		Fully Funded
WR1026	Industrial Facility Retrofits	On-Going	On-Going	
WR1030	Catoctin Creek Watershed Assessment	2016		Fully Funded
WR1031	Potomac River Watershed Assessment	2016		Fully Funded
WR1032	Double Pipe Creek Watershed Assessment	2016		Fully Funded
WR1033	Ft. Detrick Branch Stormwater Master Plan	2016		Fully Funded
WR1034	Point of Rocks Stream Restoration	2018	2018	
WR1035	Point of Rocks Pond Retrofit	2019	2019	
WR1036	Little Hunting Creek Stream Restoration Phase 1	2018	2018	
WR1037	Little Hunting Creek Stream Restoration Phase 2	2020	2020	
WR1038	Little Hunting Creek Stream Restoration Phase 3	2020	2020	
WR1039	Reforestation Program	On-Going	On-Going	
WR1040	Point of Rocks Bioswales & Bioretention	2018	2018	
WR1090	Delauter Road Retrofit	2016		Fully Funded
WR1099	Watershed Systemics		2021/22	Placeholder for Future Projects

**ROADS**

RD1045	Opossumtown Pike	2017	REMOVE	Scope change; Finished Roadwork Through Pavement Pavement Mangement Project
RD1052	Boyers Mill Road	2018	2019	Additional Funds; Delayed 2nd Portion 1 Year
RD1054	W. Frederick Intersection Improvements	2017	REMOVE	Completed Under an Existing Contract
RD1055	Old Natl Pike-MD144 to NewMrk	Out Years	Out Years	Per request delayed funding; Waiting on the Comprehensive Corridor Study for Old National Pike.
RD1056	OldNational Pike Phase 2 (from MD 75 to Mt. Airy)	Out Years	Out Years	Per request delayed funding; Waiting on the Comprehensive Corridor Study for Old National Pike.
RD1061	Reichs Ford Road - Ph 2	Out Years	Out Years	Per Request Delayed Funding
RD1064	Yeagertown Road	Out Years	Out Years	Per Request Delayed Funding

**Prior Cnstr**    **New Cnstr**    **Changes from FY2016-2021 Approved & Notes**  
**Date**                      **Date**

**ROADS cont'd**

RD1065	Reels Mill Road - Ph 2	Out Years	Out Years	Planning in FY2019
RD1067	Gas House Pike (from the City Limits to Boyers Mill Road)	2020	2020	
RD1068	Christopher's Crossing Widening		Out Years	New Project; Design in 2021

**BRIDGES**

BR1021	Blacks Mill Rd Bridge	2016		Fully Funded
BR1025	Lewistown Road Bridge	Prior		Fully Funded
BR1029	Gas House Pike Bridge	2017	2017	
BR1032	Brethren Church Rd Br	Out Years	2022	
BR1033	Hessong Bridge Road Bridge	2021	2021	
BR1035	Dixon Road Bridge (No. 07-09)	2020	2020	
BR1036	Hoovers Mill Road Bridge (No. 15-11)	2020	2020	
BR1037	Hornets Nest Road Bridge (No. 05-22)	2021	2021	
BR1050	Deck Replacements on Old Frederick Road (No. 20-02) and Thurston Road (No. 07-02)	Prior	Add'l Fund	
BR1051	Replacement of Old Mill Road Bridge No. F04-09		Out Years	New Project; Design 2022

**HIGHWAYS**

HW1001	Pavement Mgmt Pgm FY09-ongoing	On-Going	On-Going	
HW1050	Highway Network Systemic - General	On-Going	On-Going	
HW1090	Sidewalk Retrofit Program	2016-2021	2016-2021	
HW1100	Road Signalization FY09 ongoing	On-Going	On-Going	
HW3004	Roads Satellite Facilities #3	V. Phases	V. Phases	
HW3005	Urbana Satellite Yard		2019	New Project
HW5009	SHA - Jefferson Streetscape		2017	New Project

**COMMUNITY COLLEGE**

FC2003	Building B Renovation	Prior		Fully Funded
FC2004	Monroe Reconfiguration	2017	2017	Additional Funding; Forward Funding a Portion of the State's Contribution
FC2005	Building J Reconfiguration	Out-Years	COMBINE	Combined into the Bldg L project
FC2006	Jefferson Hall and Linganore Hall Reconfiguration Conversion	2021	2021	Renamed from Building L Reconfiguration/Conversion
FC5007	Technology Upgrade	On-Going	On-Going	
FC5008	Classroom Technology Upgrades	On-Going	On-Going	
FC5012	FCC Systemics	On-Going	On-Going	Provided Additional Funding for "Life Safety" Projects

**BOARD OF EDUCATION**

ED1009	Waverley ES: Addition	2021	2021	Scope Change
ED1013	Sugarloaf ES: New	2017	2018	As Requested - Delayed 1 year
ED1015	Frederick HS: Replacement	Prior	Add'l Fund	
ED1017	Urbana ES: Replacement	2019	2020	As Requested - Delayed 1 year
ED1023	Butterfly Ridge ES: New	2018	2018	
ED1024	Middletown MS: Renovation	Out Years	Out Years	Delayed; Design in FY2022
ED1025	Liberty ES: Modernization	Out Years	Out Years	Scope Change; Delayed; Design in FY2022

**Prior Cnstr      New Cnstr      Changes from FY2016-2021 Approved & Notes**  
**Date                      Date**

**BOARD OF EDUCATION cont'd**

ED1030	East County area ES: New	Out Years	Out Years	Design in FY2021
ED1040	Rock Creek School: Renovation	2021	Out Years	Scope Change; Delayed; Design in FY2021
ED5001	Systemics - Generic	On-Going	On-Going	
ED5505	Technology Improvements		Add'l Fund	
ED7001	Portable Classrooms	On-Going	On-Going	

**MUNICIPALITIES**

MP1001	Frederick Municipal Airport	2016	Multiple years	As Requested
MP1011	Monocacy Blvd	bef end of FY 2018	bef end of FY 2018	
MP1012	Yellow Springs Rd Bridge	2020	2020	
MP1101	Emmitsburg Pedestrian Safety Enhancements	2017	2017	

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# GENERAL GOVERNMENT

## **GENERAL GOVERNMENT**

The following projects include several different areas of government, such as public safety (both fire and police), public libraries, and the Courthouse. The projects also focus on maintaining assets with many systemic renovations.

### **Fire/Rescue**

- Fire Stations – A new station at Hayward Road is scheduled for construction funding in FY19 and design funding for a new station in the Green Valley/Monrovia area is scheduled in FY22.
- Burn Building – will build a new live-fire building capable of burning Class A material
- Portable Radio Replacement and Enhancement – phases in replacement of existing radios and will enhance communication capabilities with surrounding counties that operate on different systems
- Advance Life Support Cardiac Monitors – replaces cardiac monitors that are at or nearing the end of their useful life over a 2-year period and reflects on-going replacement needs in the out years
- Apparatus and Vehicle Replacement – this project will allow the county to establish a plan to replace Fire/Rescue apparatus
- A records management software system – Is funded in FY2018 and will provide input, management, and reporting of data and background information, including call statistics, budget information, personnel figures, staffing reports, apparatus, and maintenance reports



Cardiac Monitor

### **Sheriff Office**

- Adult Detention Center Medical Center – will construct a 15,000 sqft., 1-story addition and will include (but not limited to) medical, dental, and mental health treatment areas, pharmacy and laboratory space. Construction funding is scheduled in FY22 and is contingent on receiving state funding
- In-Car Video Cameras– Replacement of 30 in-car video cameras is scheduled for funding in FY18

### **Communications**

- Communication Site Security – provides for security enhancements for 10 county communication towers. Funding is provided in FY16 and FY17.
- Communication Support Vehicle – will serve the communications and management needs during an incident/event for multiple county agencies. Funding is scheduled in FY22
- Radio System upgrades/enhancements - will transition radios to the APX series to ensure system standardization, stability, and reliability and will enhance the core radio system infrastructure to increase data capacity. Funding for the upgrade is in FY2019 and the enhancement is in FY21

### **Library Facilities**

- Walkersville Library is scheduled for construction in FY17.
- Myersville Library is scheduled for construction in FY19, contingent on contributions from the state and municipality.
- Middletown Library is scheduled for design in FY2022.

### **Renovations/Relocations**

- 300 Scholl's Lane Renovation – This project has been downsized to include updating and replacing the HVAC, fire alarm, electrical system, and other components. Construction is scheduled for FY18.
- Courthouse Capacity Improvement Project – will address future needs of the court system. A feasibility study is scheduled for funding in FY17 with tentative design in FY2021 pending the outcome of the feasibility study.
- Montevue Campus Refueling Station – replaces the underground tanks to upground and other improvements. Construction funding is scheduled for FY22.
- Health Department Parking Expansion - expands the parking lot for the facility's employees and its visitors. Funding for construction is in FY18



Renovation in the Master's Hearing Room 1 to address current space issues (funded in prior years)

### **New/Expanded Facilities**

- Public Safety Training Facility Maintenance Shop and Garages – this new facility will increase efficiencies in operation for both the Division of Fire and Rescue and Fleet Services. Design funding is scheduled in FY22.
- Transit Facility Expansion – with significant funding from state/federal grants, this project remodels the administrative building and constructs a 5,023 s.f. addition.

**Maintenance Systemics – General** - Various projects are proposed throughout the six-year CIP for parking and roadway site improvements, energy management systems maintenance and replacement, roof repairs, HVAC repairs and replacements, and miscellaneous improvements.

**IIT Systemic Projects:** The County is making every effort to keep up with technological change. Toward that end, the CIP includes the following projects.

- LAN/WAN - Replacement of 20-year old technology used in the computer network that connects 41 buildings and services 1,800 workstations.
- Video Equipment – To meet the county’s needs to broadcast and store meetings.
- Security / Disaster Recovery - To enhance the security and disaster recovery capability of the County’s information technology systems.
- Enterprise Software Licenses - The cyclical upgrading of server and desktop operating system and office automation software.
- Enterprise Hardware - The cyclical replacement of servers and storage hardware.

**LEAPS** – Enhancements and upgrades to various law enforcement and public safety programs.

**GIS** – Continued development of the County’s Geographical Information System is scheduled: Roadway Imaging and Orthophotography updates.

**Financial System/Treasury System** – Continued enhancements and upgrades to the current financial software.

**Land Management Software** – An upgrade/replacement of the land management is scheduled for funding in FY18/19.

**Enterprise Asset Management/Fleet Management Software** – Implementing software that will provide functionality for the maintenance of the County's facilities, such as administrative buildings, water and sewer plants, parks, vehicles and will allow scheduling of work orders, inventory of supplies, and track preventative maintenance schedules.

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

GENERAL GOVERNMENT

PROJECT	6-Year	Total Project	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Public Safety										
Green Valley Fire Station Renovations	(669,274)	39,950	709,224	(669,274)	0	0	0	0	0	0
Public Safety Training Facility Burn Building	169,000	803,785	634,785	169,000	0	0	0	0	0	0
Hayward Road Fire Station	5,127,650	5,127,650	0	0	470,000	4,657,650	0	0	0	0
Green Valley Fire Station at Monrovia Town Center	460,000	5,017,650	0	0	0	0	0	0	460,000	4,557,650
SCBA Replacement	2,050,000	8,300,000	4,200,000	0	0	0	0	0	2,050,000	2,050,000
Fire Rescue portable radio replacement and enhancement	3,280,000	8,200,000	0	0	0	1,640,000	0	0	1,640,000	4,920,000
Advanced Life Support Cardiac Monitors	246,000	1,140,400	320,400	246,000	0	0	0	0	0	574,000
DFRS Records Management System	600,000	600,000	0	0	600,000	0	0	0	0	0
Fire Apparatus and Vehicle Replacement	3,300,000	8,442,343	1,042,343	550,000	550,000	550,000	550,000	550,000	550,000	4,100,000
ADC Medical Unit Addition	11,870,696	11,870,696	0	0	0	0	0	915,696	10,955,000	0
Sheriff's Office In-Car Video Cameras	244,901	244,901	0	0	244,901	0	0	0	0	0
Communications site security	166,000	316,000	150,000	166,000	0	0	0	0	0	0
Communications Support Vehicle	675,000	675,000	0	0	0	0	0	0	675,000	0
Radio system SCADA upgrade	900,000	900,000	0	0	0	900,000	0	0	0	0
Radio system capacity enhancement	3,500,000	3,500,000	0	0	0	0	0	3,500,000	0	0
Total: Public Safety	31,919,973	55,178,375	7,056,752	461,726	1,864,901	7,747,650	550,000	4,965,696	16,330,000	16,201,650
Other										
300 Scholl's Lane Renovation	1,083,885	1,649,919	566,034	27,675	1,056,210	0	0	0	0	0
Courthouse Capacity Improvements Project	3,382,500	32,589,500	15,000	112,750	0	0	0	3,095,500	174,250	29,192,000
Public Safety Training Facility Maintenance Shop and Garages	287,000	3,647,465	0	0	0	0	0	0	287,000	3,360,465
Montevue Campus Refueling Station	3,004,840	3,004,840	0	0	0	0	0	305,750	2,699,090	0
Health Department Parking Expansion	833,000	833,000	0	70,000	763,000	0	0	0	0	0
Transit Facility Expansion	3,649,000	3,649,000	0	390,000	3,259,000	0	0	0	0	0
Total: Other	12,240,225	45,373,724	581,034	600,425	5,078,210	0	0	3,401,250	3,160,340	32,552,465
Library										
Walkersville Library	6,480,691	6,925,509	444,818	5,827,286	653,405	0	0	0	0	0
Myersville Library	3,778,800	3,778,800	0	0	301,000	3,477,800	0	0	0	0
Middletown Library	649,000	7,216,865	0	0	0	0	0	0	649,000	6,567,865
Total: Library	10,908,491	17,921,174	444,818	5,827,286	954,405	3,477,800	0	0	649,000	6,567,865
Maintenance/Systemic										
Pine Avenue Maintenance Complex Renovations	3,149,460	3,149,460	0	0	0	0	0	540,000	2,609,460	0
Animal Health Lab - Generator	141,500	141,500	0	141,500	0	0	0	0	0	0
Maintenance Systemics - General	17,428,073	17,428,073	0	1,134,675	2,185,300	3,210,300	3,722,800	3,587,499	3,587,499	0
Total: Maintenance/Systemic	20,719,033	20,719,033	0	1,276,175	2,185,300	3,210,300	3,722,800	4,127,499	6,196,959	0

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

GENERAL GOVERNMENT

	6-Year	Total Project	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
IIT										
IIT Systemics- General	10,604,365	16,959,365	0	1,407,000	1,407,000	1,307,000	1,307,000	2,291,520	2,884,845	6,355,000
LEAPS	10,675,000	11,928,371	778,371	200,000	175,000	5,000,000	5,000,000	150,000	150,000	475,000
Enterprise GIS FY09 ongoing	2,475,000	3,775,504	1,050,504	725,000	125,000	125,000	125,000	0	1,375,000	250,000
ERP System - Software	200,000	8,284,500	8,084,500	200,000	0	0	0	0	0	0
Financial System FY09 ongoing	600,000	1,562,310	562,310	0	200,000	100,000	100,000	100,000	100,000	200,000
Land Management	3,550,000	4,149,860	399,860	0	1,700,000	1,700,000	0	100,000	50,000	200,000
EAM & Fleet Mgt System - Software	1,128,377	1,128,377	0	0	1,128,377	0	0	0	0	0
Treasury System	200,000	588,474	288,474	0	100,000	0	0	100,000	0	100,000
Total: IIT	29,432,742	48,376,761	11,164,019	2,532,000	4,835,377	8,232,000	6,532,000	2,741,520	4,559,845	7,580,000
Unallocated Project										
Unallocated Project	(649,900)	4,371,984	5,021,884	(500,000)	(149,900)	0	0	0	0	0
Total: Unallocated Project	(649,900)	4,371,984	5,021,884	(500,000)	(149,900)	0	0	0	0	0
<b>Total Expense</b>	<b>104,570,564</b>	<b>191,941,051</b>	<b>24,268,507</b>	<b>10,197,612</b>	<b>14,768,293</b>	<b>22,667,750</b>	<b>10,804,800</b>	<b>15,235,965</b>	<b>30,896,144</b>	<b>62,901,980</b>

**FUNDING**

General Fund	28,394,147	83,383,669	5,386,456	2,393,425	3,238,963	2,417,750	1,804,800	7,238,465	11,300,744	49,603,066
General Fund Bonds & Capital Lease	59,962,114	89,173,353	18,412,325	3,311,687	7,177,527	18,941,000	9,000,000	7,523,500	14,008,400	10,798,914
Impact Fee & Bonds	3,653,405	5,554,158	400,753	3,000,000	653,405	0	0	0	0	1,500,000
Enterprise Fee & Bonds	1,391,298	1,419,638	28,340	0	765,298	619,000	0	7,000	0	0
Grants	10,979,600	12,020,233	40,633	1,492,500	2,933,100	500,000	0	467,000	5,587,000	1,000,000
Other	190,000	190,000	0	0	0	190,000	0	0	0	0
<b>Total Funding Source</b>	<b>104,570,564</b>	<b>191,741,051</b>	<b>24,268,507</b>	<b>10,197,612</b>	<b>14,768,293</b>	<b>22,667,750</b>	<b>10,804,800</b>	<b>15,235,965</b>	<b>30,896,144</b>	<b>62,901,980</b>

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# Capital Project Summary

**Capital Project Number: GG1024**

**PS Project ID: C11025**

**Capital Project Title: Green Valley Fire Station Renovations**

**Region: Urbana**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: Public Safety**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project renovates the existing Green Valley Fire Station, which was constructed in 1984: the bathrooms, bunkroom, kitchen, office and living areas are in need of repair and improvement to accommodate the personnel currently assigned to this facility; the roof on the engine bay requires replacement; upgrades to the sprinkler system must be undertaken. The inadequacy of general and gear storage space is addressed with this effort, as are lighting and HVAC revisions. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	0	204,340	-204,340						
Architect/Engineering	34,124	424,134	-390,010						
Planning/Study	0	36,000	-36,000						
Project Management & Inspections	0	1,000	-1,000						
Project Management	5,826	43,750	-37,924						
<b>Total Cost:</b>	<b>39,950</b>	<b>709,224</b>	<b>-669,274</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	304	304							
Trans From Special Taxing Dist	0								
General Obligation Bonds	39,646	708,920	-669,274						
Urban Tax District Bonds	0								
<b>Total Cost:</b>	<b>39,950</b>	<b>709,224</b>	<b>-669,274</b>						



# Capital Project Summary

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**Capital Project Number: GG1026**

**PS Project ID: C11056**

**Capital Project Title: Public Safety Training Facility Burn Building**

**Region: Frederick**

**Asset Category: General Government**

**Est Completion Date: 12/31/2017**

**Asset Type: Public Safety**

**Year Identified: 2016**

**Capital Project Status: Open**

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## Capital Project Description:

New burn tiles on the walls and ceilings of the existing live-fire training building, and additions to the structure so that fire fighting in a variety of facilities may be simulated (single-family house, condominium, warehouse, etc.) This will enhance training capabilities. FY17: Updated description of project.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	37,785	37,785							
Architect/Engineering	44,000	44,000							
Construction	669,000	500,000	169,000						
Project Management & Inspections	53,000	53,000							
<b>Total Cost:</b>	<b>803,785</b>	<b>634,785</b>	<b>169,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	234,785	234,785							
General Obligation Bonds	569,000	400,000	169,000						
<b>Total Cost:</b>	<b>803,785</b>	<b>634,785</b>	<b>169,000</b>						



# Capital Project Summary

**Capital Project Number: GG1027**

**PS Project ID:**

**Capital Project Title: Hayward Road Fire Station**

**Region: Frederick**

**Asset Category: General Government**

**Est Completion Date: 7/2/2018**

**Asset Type: Public Safety**

**Year Identified: 2017**

**Capital Project Status: Open**

## Capital Project Description:

This new fire/rescue station will be located in the vicinity of Hayward Road and Thomas Johnson Drive and serve the northern part of Frederick City and surrounding County areas. It will be sited on Lot 25 referenced on Final Subdivision and Addition Plat, Lots 24, 25 & 26, Section One, Frederick Electronics. The facility will be designed based upon the substation program (four-engine-bay station and operational facilities) and as required per the site constraints. \*Note: No land acquisition costs have been included in this budget.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	105,000				105,000				
Site Improvement	20,000			20,000					
Architect/Engineering	430,000			430,000					
Construction	4,300,000				4,300,000				
IIT Infrastructure	57,250				57,250				
Project Management & Inspections	120,000				120,000				
Furniture and Equipment	45,000				45,000				
Technology Equipment-IIT/DPW	20,400				20,400				
Project Management	30,000			20,000	10,000				
<b>Total Cost:</b>	<b>5,127,650</b>			<b>470,000</b>	<b>4,657,650</b>				

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	157,650				157,650				
General Obligation Bonds	4,970,000			470,000	4,500,000				
<b>Total Cost:</b>	<b>5,127,650</b>			<b>470,000</b>	<b>4,657,650</b>				



# Capital Project Summary

**Capital Project Number: GG1028**

**PS Project ID:**

**Capital Project Title: Green Valley Fire Station at Monrovia Town Center**

**Region: Urbana**

**Asset Category: General Government**

**Est Completion Date: 7/3/2023**

**Asset Type: Public Safety**

**Year Identified: 2017**

**Capital Project Status: Open**

## Capital Project Description:

A proposed expansion of the existing fire station has been shown to be not feasible. The feasibility study completed in the fall of 2003 determined that the expansion, which is to include a Sheriff's Office substation, will not meet the program needs of DFRS or the Sheriff's office. This request is to provide a new facility designed per the substation program (four-engine-bay station and operational facilities), with an additional 300 s.f. provided for Sheriff's Office needs. This station is sited on land deeded from the Monrovia Town Center project in accordance with the DRRRA.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	105,000								105,000
Site Improvement	20,000							20,000	
Architect/Engineering	420,000							420,000	
Construction	4,200,000								4,200,000
IIT Infrastructure	57,250								57,250
Project Management & Inspections	120,000								120,000
Furniture and Equipment	45,000								45,000
Technology Equipment-IIT/DPW	20,400								20,400
Project Management	30,000							20,000	10,000
<b>Total Cost:</b>	<b>5,017,650</b>							<b>460,000</b>	<b>4,557,650</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	617,650							60,000	557,650
General Obligation Bonds	4,400,000							400,000	4,000,000
<b>Total Cost:</b>	<b>5,017,650</b>							<b>460,000</b>	<b>4,557,650</b>



# Capital Project Summary

**Capital Project Number: GG1080**

**PS Project ID: C11425**

**Capital Project Title: SCBA Replacement**

**Region:**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: Public Safety**

**Year Identified: 2015**

**Capital Project Status: Open**

## Capital Project Description:

Division of Fire and Rescue Services (DFRS) needs to replace 677 Self Contained Breathing Apparatus, (SCBA) and supporting equipment, in-order to bring DFRS up to NFPA 2013 standard for respiratory protection, (NFPA 1981 and 1982). The new NFPA standard calls for an end-of-service time indicator at 33% of air remaining. Our current SCBA operate at 25% air remaining, making our current 2216 psi (30 minute) cylinders ineffective for fire fighting, in order to be compliant with NFPA 2013 standards. The new SCBA will have larger 45 or 60 minute cylinders providing longer operating time while increasing firefighter safety. The new SCBA will also meet the new standard for increased lens integrity, voice intelligibility, emergency breathing support system, and intrinsic safety standards. This will bring DFRS in line with our partners around the region and provide for the safety of the Firefighters. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	8,300,000	4,200,000						2,050,000	2,050,000
<b>Total Cost:</b>	8,300,000	4,200,000						2,050,000	2,050,000

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	4,100,000							2,050,000	2,050,000
General Obligation Bonds	4,200,000	4,200,000							
<b>Total Cost:</b>	8,300,000	4,200,000						2,050,000	2,050,000



# Capital Project Summary

**Capital Project Number: GG1082**

**Capital Project Title: Fire Rescue portable radio replacement and enhancement**

**Asset Category: General Government**

**Asset Type: Public Safety**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Adamstown, Brunswick, Frederick, Middletown,...**

**Est Completion Date:**

**Year Identified: 2016**

## Capital Project Description:

Replacing fire/rescue portable radio fleet with new radios with enhanced capabilities. Number of radios requested was determined by request from Fire/Rescue Services. The current subscriber fleet of portable radios has served County responders reliably since 2005. The typical lifespan of electronic equipment regularly exposed to the fire/rescue/EMS operational environment, which includes severe temperature changes, water and dust, impacts and vibration, and other damaging elements, is typically eight to ten years. By 2017 the radios will be entering their 12th year of service, which would be the outer edge of their durability. Coupled with the need for replacement, is the current and growing need fire/rescue has to be able to directly operate on adjacent counties' radio systems who do not use the same frequency band as Frederick County. This is mainly the jurisdictions to our west, and includes Jefferson County, WV; Washington County, MD; and Franklin County, PA. Fire and Rescue units regularly respond across these borders to provide mutual aid support for emergencies, and the inability to directly communicate has been noted in several after action reports as a growing concern that has life safety implications for the citizens we serve as well as the responders who serve them.

Fire and Rescue has requested a portable radio for each unit; a self-contained breathing apparatus position on those units; and portable radios sufficient to cover the public safety training facility and other special units.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	8,200,000				1,640,000			1,640,000	4,920,000
<b>Total Cost:</b>	8,200,000				1,640,000			1,640,000	4,920,000

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	6,560,000							1,640,000	4,920,000
Capital Leases	1,640,000				1,640,000				
<b>Total Cost:</b>	8,200,000				1,640,000			1,640,000	4,920,000



# Capital Project Summary

**Capital Project Number: GG1083**

**PS Project ID: C12030**

**Capital Project Title: Advanced Life Support Cardiac Monitors**

**Region: Adamstown, Brunswick, Frederick, Middletown,...**

**Asset Category: General Government**

**Est Completion Date: 7/2/2025**

**Asset Type: Public Safety**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

Frederick County Advanced Life Support owns 14 LifePak 12 Cardiac Monitors: Eleven of the devices are currently beyond the time frame in which the vendor will provide repair or replacement; two will no longer be supported at the end of 2014; one can no longer be serviced after 2016. DFRS must budget for replacement of the cardiac monitors, which are a mandatory requirement for ALS medic unit service operations. Eight will be replaced in FY2016, six in FY2017, and the replacement cycle will be replicated every eight years. FY17: Costs escalated 2.5%.

### Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Fire/Rescue Vehicle Equip	1,140,400	320,400	246,000						574,000
<b>Total Cost:</b>	1,140,400	320,400	246,000						574,000

### Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,140,400	320,400	246,000						574,000
<b>Total Cost:</b>	1,140,400	320,400	246,000						574,000



# Capital Project Summary

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**Capital Project Number:** GG1084

**Capital Project Title:** DFRS Records Management System

**Asset Category:** General Government

**Asset Type:** Public Safety

**Capital Project Status:** Open

**PS Project ID:**

**Region:** Adamstown, Brunswick, Frederick, Middletown,...

**Est Completion Date:**

**Year Identified:** 2017

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## Capital Project Description:

The Division of Fire & Rescue Services has identified the need for a single, centralized, Countywide database for its Records Management System (RMS) that collects all County incident data and is National Fire Incident Reporting System compliant. This system will provide input, management, and reporting of data and background information, including call statistics, budget information, personnel figures, staffing reports, apparatus, and maintenance reports. CAD and GIS data is also input, managed, and reported with this system. In addition, this system tracks and reports all LOSAP information from each department.

### Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Project - Software	600,000			600,000					
<b>Total Cost:</b>	600,000			600,000					

### Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	600,000			600,000					
<b>Total Cost:</b>	600,000			600,000					



# Capital Project Summary

**Capital Project Number: GG1098**

**PS Project ID: C11601**

**Capital Project Title: Fire Apparatus and Vehicle Replacement**

**Region:**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: Public Safety**

**Year Identified: 2014**

**Capital Project Status: Open**

## Capital Project Description:

The Division of Fire & Rescue Services (DFRS) has undertaken an apparatus and vehicle inventory/replacement analysis consistent with the recommendation set forth by external auditors SC&H in their "Audit of Funding for Replacement of DFRS Apparatus" delivered to the County in June 2014. DFRS has developed a detailed analysis which identifies every agency-owned apparatus and vehicle, the mileage or hours on each vehicle, and the NFPA recommended standards for replacement of these apparatus or vehicles. The result of this analysis is that there is a large unfunded liability associated with the 70 DFRS-owned apparatus and vehicles that will need to be replaced over the next ten years. FY2017: Costs escalated 2.5%

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Fire/Rescue Vehicle Equip	8,300,000	900,000	550,000	550,000	550,000	550,000	550,000	550,000	4,100,000
Financed equip purchases	0								
Capital Vehicles Replacement	142,343	142,343							
<b>Total Cost:</b>	<b>8,442,343</b>	<b>1,042,343</b>	<b>550,000</b>	<b>550,000</b>	<b>550,000</b>	<b>550,000</b>	<b>550,000</b>	<b>550,000</b>	<b>4,100,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	4,102,343	2,343							4,100,000
Capital Leases	900,000	900,000							
General Obligation Bonds	3,440,000	140,000	550,000	550,000	550,000	550,000	550,000	550,000	
<b>Total Cost:</b>	<b>8,442,343</b>	<b>1,042,343</b>	<b>550,000</b>	<b>550,000</b>	<b>550,000</b>	<b>550,000</b>	<b>550,000</b>	<b>550,000</b>	<b>4,100,000</b>



# Capital Project Summary

**Capital Project Number: GG1106**

**Capital Project Title: ADC Medical Unit Addition**

**Asset Category: General Government**

**Asset Type: Public Safety**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Frederick**

**Est Completion Date:**

**Year Identified: 2017**

## Capital Project Description:

This project constructs a 15,000 s.f., one-story Medical Unit addition to the Frederick County Adult Detention Center. The building includes, but is not limited to, cells for the inmate population, including negative pressure cells required for the isolation of inmates infected with active tuberculosis; medical, dental, and mental health treatment areas, pharmacy and laboratory space; an inmate laundry room; medical supply storage; and a security station for correctional officers. Exterior and interior finishes provided are as required for correctional facilities. Cost include video surveillance cameras, fire alarms, and a fire sprinkler system tied to the existing system.

\*Note: Budget developed based upon no prevailing wage requirements.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	800,000						800,000		
Construction	10,790,000							10,790,000	
IT Infrastructure	95,696						95,696		
Project Management & Inspections	135,000						20,000	115,000	
Furniture and Equipment	50,000							50,000	
<b>Total Cost:</b>	<b>11,870,696</b>						<b>915,696</b>	<b>10,955,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Pub Safety & Corrections Svcs	6,054,000						467,000	5,587,000	
Transfer From General Fund	316,696						148,696	168,000	
General Obligation Bonds	5,500,000						300,000	5,200,000	
<b>Total Cost:</b>	<b>11,870,696</b>						<b>915,696</b>	<b>10,955,000</b>	



# Capital Project Summary

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**Capital Project Number: GG1152**

**PS Project ID:**

**Capital Project Title: Sheriff's Office In-Car Video Cameras**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date: 6/29/2018**

**Asset Type: Public Safety**

**Year Identified: 2015**

**Capital Project Status: Open**

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## Capital Project Description:

This project replaces 30 in-car video cameras, which are at the end of their life cycle and require constant repair, with high-definition digital cameras. The digital cameras will facilitate the streamlining of evidence collection, protect the chain of evidence from the car to the courtroom, reduce evidence storage needs, and enable pre-event recording. The project cost includes installation and a back-end computer server. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	244,901			244,901					
<b>Total Cost:</b>	244,901			244,901					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	244,901			244,901					
<b>Total Cost:</b>	244,901			244,901					



# Capital Project Summary

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**Capital Project Number: GG1193**

**PS Project ID: C11057**

**Capital Project Title: Communications site security**

**Region: Adamstown, Brunswick, Frederick, Middletown,...**

**Asset Category: General Government**

**Est Completion Date: 6/30/2017**

**Asset Type: Public Safety**

**Year Identified: 2016**

**Capital Project Status: Open**

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## Capital Project Description:

Site security improvements at ten county communications tower site locations. County tower sites have been affected by grounding and surge suppression material thefts during the last several years which, in addition to causing the county to expend funds to perform repairs, expose \$22M in communications equipment to possible electrical damage. Damage could affect the ability of the radio system to serve public safety and public service customers for a duration ranging from hours to weeks depending on the equipment damaged.

### Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Equipment-NonBuilding	316,000	150,000	166,000						
<b>Total Cost:</b>	<b>316,000</b>	<b>150,000</b>	<b>166,000</b>						

### Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	316,000	150,000	166,000						
<b>Total Cost:</b>	<b>316,000</b>	<b>150,000</b>	<b>166,000</b>						



# Capital Project Summary

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**Capital Project Number:** GG1195

**Capital Project Title:** Communications Support Vehicle

**Asset Category:** General Government

**Asset Type:** Public Safety

**Capital Project Status:** Open

**PS Project ID:**

**Region:** Adamstown, Brunswick, Frederick, Middletown,...

**Est Completion Date:**

**Year Identified:** 2017

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## Capital Project Description:

Request to fund a communications support vehicle to serve the communications and incident or event management needs of multiple county agencies when responding to planned events or emergency incidents in the county.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Vehicles Replacement	675,000							675,000	
<b>Total Cost:</b>	675,000							675,000	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	675,000							675,000	
<b>Total Cost:</b>	675,000							675,000	



# Capital Project Summary

**Capital Project Number: GG1196**

**Capital Project Title: Radio system SCADA upgrade**

**Asset Category: General Government**

**Asset Type: Public Safety**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Adamstown, Brunswick, Frederick, Middletown,...**

**Est Completion Date: 1/1/2019**

**Year Identified: 2017**

## Capital Project Description:

Within the County's mission critical radio system exists a subsystem to support the supervisory control and data acquisition (SCADA) needs of multiple agencies. With the manufacturer's announced end of life/end of support of the XTS and XTL series of radios that currently provide the radio link for the SCADA system in December 2018, a planned transition to the APX series of radios is warranted to ensure system standardization, stability, and reliability.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	900,000				900,000				
<b>Total Cost:</b>	900,000				900,000				

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	400,000				400,000				
Transfers from Water and Sewer	500,000				500,000				
<b>Total Cost:</b>	900,000				900,000				



# Capital Project Summary

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**Capital Project Number:** GG1197

**PS Project ID:**

**Capital Project Title:** Radio system capacity enhancement

**Region:** Adamstown, Brunswick, Frederick, Middletown,...

**Asset Category:** General Government

**Est Completion Date:** 7/1/2021

**Asset Type:** Public Safety

**Year Identified:** 2017

**Capital Project Status:** Open

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## Capital Project Description:

The County radio system which supports all county agencies using radios, as well as Brunswick, Frederick, Thurmont, State of Maryland, and federal agencies operating in Frederick County, has the core capability to have its total traffic handling capability doubled with select hardware and software license upgrades.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	3,500,000						3,500,000		
<b>Total Cost:</b>	3,500,000						3,500,000		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	3,500,000						3,500,000		
<b>Total Cost:</b>	3,500,000						3,500,000		



# Capital Project Summary

**Capital Project Number: GG2010**

**PS Project ID: C11012**

**Capital Project Title: 300 Scholl's Lane Renovation**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date: 7/1/2018**

**Asset Type: Other**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

FY2014: DFRS Logistics now occupies the space once contemplated for the Elections Board, and this project's scope was revised to reflect that improvements for the Elections Board are no longer required. Remaining scope includes a complete HVAC replacement for the Health Department (7,500 sq. ft.), an upgrade to the building's electrical system, fire alarm panel modifications, improvements to the existing parking lot, fence repair, roof replacement, siding and sewer repair, and parking lot lighting. FY2017: Costs escalated 2.5% and description revised.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	22,946			22,946					
Real Estate	18,056	18,056							
Architect/Engineering	184,375	158,750	25,625						
Construction	1,338,433	339,728		998,705					
IIT Infrastructure	28,409			28,409					
Project Management & Inspections	5,150			5,150					
Project Management	52,550	49,500	2,050	1,000					
<b>Total Cost:</b>	<b>1,649,919</b>	<b>566,034</b>	<b>27,675</b>	<b>1,056,210</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	112,570	59,133	27,675	25,762					
General Obligation Bonds	1,537,349	506,901		1,030,448					
<b>Total Cost:</b>	<b>1,649,919</b>	<b>566,034</b>	<b>27,675</b>	<b>1,056,210</b>					



# Capital Project Summary

**Capital Project Number: GG2019**

**PS Project ID: C11217**

**Capital Project Title: Courthouse Capacity Improvements Project**

**Region: Frederick**

**Asset Category: General Government**

**Est Completion Date: 7/7/2023**

**Asset Type: Other**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

Addressing space limitations at the Frederick County Courthouse was a priority identified in the 2013 Countywide Synergy and Efficiency Concept Plan: The Administrative Office of the Courts' Workload Analysis for FY2015 revealed that Frederick County was in need of a sixth Circuit Court judge (and accompanying staff), for whom there is currently no space in the Courthouse. Furthermore, it is projected that a seventh circuit courtroom and another master's hearing room will also be required to accommodate workload within the decade. This project anticipates a 90,000-100,000 s.f. facility that provides room for the aforementioned needs (initially finishing one floor), additional secure parking, and shell space for future Circuit Court-related fit-out in an annex at the rear of the existing site. Subsequent to the completion of the Space Needs Assessment (FY16) and Feasibility Study (FY17), the project scope and design and construction costs (FY18 - FY21) will be refined.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	106,750								106,750
Site Improvement	153,750							153,750	
Architect/Engineering	3,075,000						3,075,000		
Planning/Study	117,500	15,000	102,500						
Construction	28,700,000								28,700,000
IIT Infrastructure	61,500								61,500
Project Management & Inspections	213,000							10,500	202,500
Furniture and Equipment	47,000								47,000
Technology Equipment-IIT/DPW	51,250								51,250
Project Management	63,750		10,250				20,500	10,000	23,000
<b>Total Cost:</b>	<b>32,589,500</b>	<b>15,000</b>	<b>112,750</b>				<b>3,095,500</b>	<b>174,250</b>	<b>29,192,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	29,494,000	15,000	112,750					174,250	29,192,000
General Obligation Bonds	3,095,500						3,095,500		
<b>Total Cost:</b>	<b>32,589,500</b>	<b>15,000</b>	<b>112,750</b>				<b>3,095,500</b>	<b>174,250</b>	<b>29,192,000</b>



# Capital Project Summary

**Capital Project Number: GG2030**

**PS Project ID:**

**Capital Project Title: Public Safety Training Facility  
Maintenance Shop and Garages**

**Region: Frederick**

**Asset Category: General Government**

**Est Completion Date: 12/4/2023**

**Asset Type: Other**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

Fire trucks, ambulances and other rescue vehicles that belong to the Division of Fire & Rescue Services and Volunteer organizations are currently repaired by Fleet Services at its Montevue facility or at individual fire stations. The operations of DFRS and the efficiency of the Division of Public Works Fleet Services Department will be improved with the construction of a maintenance and machine shop and heated garage for the servicing of vehicles and fire apparatus at the Public Safety Training Facility campus. This project includes a vehicle service pit, two-ton crane, wash bay, generator backup, maintenance and repair equipment (lifts and stands), fueling island, parking area conducive to the function of a preventive and corrective maintenance facility, heated storage bays, and requisite stormwater management. FY2017: IIT costs adjusted after IIT review. All other costs escalated 2.5%

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	71,750								71,750
Site Improvement	15,375								15,375
Architect/Engineering	256,250							256,250	
Construction	2,870,000								2,870,000
IIT Infrastructure	15,000								15,000
Project Management & Inspections	85,825							10,750	75,075
Furniture and Equipment	287,000								287,000
Technology Equipment-IIT/DPW	16,265								16,265
Project Management	30,000							20,000	10,000
<b>Total Cost:</b>	<b>3,647,465</b>							<b>287,000</b>	<b>3,360,465</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	523,465							107,000	416,465
General Obligation Bonds	3,124,000							180,000	2,944,000
<b>Total Cost:</b>	<b>3,647,465</b>							<b>287,000</b>	<b>3,360,465</b>



# Capital Project Summary

**Capital Project Number: GG2031**

**PS Project ID:**

**Capital Project Title: Montevue Campus Refueling Station**

**Region: Frederick**

**Asset Category: General Government**

**Est Completion Date: 9/3/2022**

**Asset Type: Other**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

This project removes Fleet Services' below-ground fuel tanks and Transit's above-ground tank and accoutrements at the Montevue Campus and replaces them with two 15,000 gallon above-ground tanks and eight fuel pumps to dispense diesel and gasoline at a canopy-covered, centrally-located station, accessible to all agencies that fuel at Montevue. Installation of a 125 KW generator will ensure uninterrupted power to the Refueling Station and the adjacent Bourne Building. Costs also include a grit separator and trap, site work (requisite stormwater management), new electrical service, and fuel delivery and tank monitoring systems.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	67,500							67,500	
Site Improvement	55,000						55,000		
Architect/Engineering	220,000						220,000		
Construction	2,220,000							2,220,000	
IIT Infrastructure	19,640							19,640	
Project Management & Inspections	93,000						10,750	82,250	
Furniture and Equipment	290,000							290,000	
Technology Equipment-IIT/DPW	9,700							9,700	
Project Management	30,000						20,000	10,000	
<b>Total Cost:</b>	<b>3,004,840</b>						<b>305,750</b>	<b>2,699,090</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	934,440						145,750	788,690	
General Obligation Bonds	2,070,400						160,000	1,910,400	
<b>Total Cost:</b>	<b>3,004,840</b>						<b>305,750</b>	<b>2,699,090</b>	



# Capital Project Summary

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**Capital Project Number: GG2032**

**PS Project ID:**

**Capital Project Title: Health Department Parking Expansion**

**Region: Frederick**

**Asset Category: General Government**

**Est Completion Date: 7/1/2018**

**Asset Type: Other**

**Year Identified: 2017**

**Capital Project Status: Open**

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## Capital Project Description:

This project removes the playground equipment adjacent to the floodplain at the Health Department site and installs a parking lot for the facility's employees and its visitors.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	60,000		60,000						
Construction	693,000			693,000					
Project Management & Inspections	80,000		10,000	70,000					
<b>Total Cost:</b>	<b>833,000</b>		<b>70,000</b>	<b>763,000</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	70,000		70,000						
General Obligation Bonds	763,000			763,000					
<b>Total Cost:</b>	<b>833,000</b>		<b>70,000</b>	<b>763,000</b>					



# Capital Project Summary

**Capital Project Number: GG2033**

**PS Project ID:**

**Capital Project Title: Transit Facility Expansion**

**Region: Frederick**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: Other**

**Year Identified: 2017**

**Capital Project Status: Open**

## Capital Project Description:

Based upon a 2010 MTA Facility Needs Assessment, Transit has outgrown its existing 4,500 s.f. administrative facility. This project remodels the administrative building and constructs a 5,023 s.f. addition.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	90,000		90,000						
Architect/Engineering	270,000		270,000						
Construction	3,010,000			3,010,000					
IIT Infrastructure	31,000			31,000					
Project Management & Inspections	160,000		30,000	130,000					
Furniture and Equipment	50,000			50,000					
Technology Equipment-IIT/DPW	38,000			38,000					
<b>Total Cost:</b>	<b>3,649,000</b>		<b>390,000</b>	<b>3,259,000</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Federal Grants - Pass Thru	2,919,200		312,000	2,607,200					
MD Dept of Transportation	364,900		39,000	325,900					
Transfer From General Fund	215,000		39,000	176,000					
General Obligation Bonds	149,900			149,900					
<b>Total Cost:</b>	<b>3,649,000</b>		<b>390,000</b>	<b>3,259,000</b>					



# Capital Project Summary

**Capital Project Number: GG3003**

**PS Project ID: C11905**

**Capital Project Title: Walkersville Library**

**Region: Walkersville**

**Asset Category: General Government**

**Est Completion Date: 9/2/2018**

**Asset Type: Library**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

A feasibility study of a town donated site was funded in FY2007 in order to assess if the same design for the Brunswick Library could be used for the Walkersville Library. The feasibility study was completed in FY2008 with a design contract awarded shortly thereafter in FY2008. The site has been determined suitable and the land transfer process has been completed. The proposed facility will be a 15,250 s.f. new building to replace the existing 2,000 s.f. library. A prototype building similar to Brunswick Library has been designed with exterior and interior finishes unique to Walkersville. FY2017: IIT costs adjusted after IIT review. Other costs escalated 2.5%. A/E funds added as required for construction administration.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	644,311		105,906	538,405					
Site Improvement	101,616		101,616						
Architect/Engineering	513,818	394,818	119,000						
Construction	5,002,000		5,002,000						
IIT Infrastructure	56,050		56,050						
Project Management & Inspections	166,214		166,214						
Furniture and Equipment	329,240		214,240	115,000					
Technology Equipment-IIT/DPW	37,260		37,260						
Project Management	75,000	50,000	25,000						
<b>Total Cost:</b>	<b>6,925,509</b>	<b>444,818</b>	<b>5,827,286</b>	<b>653,405</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
MD Educ Grants Restricted	1,040,633	40,633	1,000,000						
Transfer From General Fund	3,432	3,432							
Transfer From Impact Fee Funds	4,054,158	400,753	3,000,000	653,405					
General Obligation Bonds	1,827,286		1,827,286						
<b>Total Cost:</b>	<b>6,925,509</b>	<b>444,818</b>	<b>5,827,286</b>	<b>653,405</b>					



# Capital Project Summary

**Capital Project Number: GG3004**

**PS Project ID: C11906**

**Capital Project Title: Myersville Library**

**Region: Middletown**

**Asset Category: General Government**

**Est Completion Date: 1/15/2020**

**Asset Type: Library**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

The Myersville site is located at the old elementary school and will be donated by the town for library use. The site is basically flat, adjacent to all utilities, and accessible to good community roads. The proposed facility will be approximately 6,000 s.f. facility. Demolition costs for the existing building have been absorbed by the town and are not included in the budget. The design will be original rather than prototypical. The size of the facility is dictated by the construction of the future 15,000 s.f. Middletown Library, located four miles from this site. Construction costs include the installation of a Trolley exhibit, requested by the Town of Myersville.

\*\* Timing of project is contingent on the state grant award and contribution from the municipality \*\*

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	9,300				9,300				
Site Improvement	5,000			5,000					
Architect/Engineering	271,000			271,000					
Construction	2,710,000				2,710,000				
IIT Infrastructure	38,800				38,800				
Project Management & Inspections	130,000			5,000	125,000				
Furniture and Equipment	555,000				555,000				
Technology Equipment-IIT/DPW	29,700				29,700				
Project Management	30,000			20,000	10,000				
<b>Total Cost:</b>	<b>3,778,800</b>			<b>301,000</b>	<b>3,477,800</b>				

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
MD Educ Grants Restricted	500,000				500,000				
Transfer From General Fund	67,800				67,800				
General Obligation Bonds	3,021,000			301,000	2,720,000				
Municipal Contribution	190,000				190,000				
<b>Total Cost:</b>	<b>3,778,800</b>			<b>301,000</b>	<b>3,477,800</b>				



# Capital Project Summary

**Capital Project Number: GG3005**

**Capital Project Title: Middletown Library**

**Asset Category: General Government**

**Asset Type: Library**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Middletown**

**Est Completion Date: 7/2/2024**

**Year Identified: 2017**

## Capital Project Description:

This project replaces the Middletown Branch Library on Prospect Street with a a new 15,250 s.f. library on a developer-donated site on Green Street, west of the school complex. The Green Street property is to be transferred to the County in the spring of 2016. The library design will be based upon the Brunswick/Walkersville prototype, with exterior and interior finishes unique to Middletown.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	100,000							100,000	
Architect/Engineering	524,000							524,000	
Construction	5,240,000								5,240,000
IIT Infrastructure	56,050								56,050
Project Management & Inspections	160,000							25,000	135,000
Furniture and Equipment	1,095,715								1,095,715
Technology Equipment-IIT/DPW	41,100								41,100
<b>Total Cost:</b>	<b>7,216,865</b>							<b>649,000</b>	<b>6,567,865</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
MD Educ Grants Restricted	1,000,000								1,000,000
Transfer From General Fund	261,951							49,000	212,951
Transfer From Impact Fee Funds	1,500,000								1,500,000
General Obligation Bonds	4,454,914							600,000	3,854,914
<b>Total Cost:</b>	<b>7,216,865</b>							<b>649,000</b>	<b>6,567,865</b>



# Capital Project Summary

**Capital Project Number: GG2034**

**PS Project ID:**

**Capital Project Title: Pine Avenue Maintenance Complex Renovations**

**Region: Frederick**

**Asset Category: General Government**

**Est Completion Date: 7/7/2022**

**Asset Type: Maintenance/Systemic**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

The Pine Avenue site where the Division of Public Works Office of Facilities Maintenance and Division of Parks & Recreation maintenance personnel are located requires substantial updating to facilitate the carpentry, HVAC, electrical and painting operations that occur at its workshops. In addition, Highway Operations' materials and equipment have been added to this location with the vacation of the adjacent satellite yard. This project funds requisite renovations to shop areas, including the provision of compressors and service equipment, improvements to the existing administration area to furnish adequate bunk and restroom accommodations for Maintenance and Highway staff whose services are mandatory during weather and emergency events, and expansion of truck storage. Motorized access gates, a fuel island, grit separator, and an 80 KW emergency generator to ensure uninterrupted power to a complex that must be able to operate 24/7 are also included. The mill and overlay of the parking lot will occur at the conclusion of the project. As the purchase of adjacent property is contemplated to enable more effective vehicular access to the existing equipment bays, land expenses are included.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	300,000						300,000		
Architect/Engineering	220,000						220,000		
Construction	2,200,000							2,200,000	
IIT Infrastructure	10,760							10,760	
Project Management & Inspections	112,500						20,000	92,500	
Furniture and Equipment	300,000							300,000	
Technology Equipment-IIT/DPW	6,200							6,200	
<b>Total Cost:</b>	<b>3,149,460</b>						<b>540,000</b>	<b>2,609,460</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,149,460						540,000	609,460	
General Obligation Bonds	2,000,000							2,000,000	
<b>Total Cost:</b>	<b>3,149,460</b>						<b>540,000</b>	<b>2,609,460</b>	



# Capital Project Summary

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**Capital Project Number: GG4013**

**Capital Project Title: Animal Health Lab - Generator**

**Asset Category: General Government**

**Asset Type: Maintenance/Systemic**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Frederick**

**Est Completion Date:**

**Year Identified: 2017**

## Capital Project Description:

The Maryland Department of Agriculture has requested the addition of an emergency generator to the County facility at 1840 Rosemont Avenue leased to the State through 2025. The natural gas generator will ensure continuity of operations and the maintenance of the laboratory's accreditation. Project costs are borne by the State. The emergency generator will be the property of Frederick County.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	10,000		10,000						
Construction	104,000		104,000						
Project Management & Inspections	20,000		20,000						
Project Management	7,500		7,500						
<b>Total Cost:</b>	<b>141,500</b>		<b>141,500</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
State Contribution	141,500		141,500						
<b>Total Cost:</b>	<b>141,500</b>		<b>141,500</b>						



# Capital Project Summary

**Capital Project Number: GG4199**

**PS Project ID: C11060**

**Capital Project Title: Maintenance Systemics - General**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: Maintenance/Systemic**

**Year Identified: 2014**

**Capital Project Status: Open**

## Capital Project Description:

This project combines maintenance/systemic projects that were previously separated in the CIP into a Super Systemic and anticipates future maintenance required for aging County buildings and County-owned properties: roof replacement, carpet replacement, pavement repair/overlay/sealcoating, elevator modernization, plumbing and electrical upgrades, energy conservation, HVAC replacement/upgrade, sprinkler/fire pump/fire alarm code upgrades, generator repair/replacement, building envelope improvements such as window and door replacements and the repointing of bricks, and miscellaneous site improvements and modifications. For FY 2017, priorities are Winchester Hall parking lot paving, concrete, and storm drain repairs; PSTF Annex parking lot paving; Health Department parking lot concrete repairs; design of Health Department HVAC replacement. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	976,726	106,600	56,818	109,265	160,515	186,140	178,694	178,694	
Architect/Engineering	2,088,227		136,287	262,236	385,236	446,736	428,866	428,866	
Construction	13,091,037		852,267	1,638,975	2,407,725	2,792,100	2,699,985	2,699,985	
Capital Appropriations	-106,600	-106,600							
Project Management & Inspections	966,683		63,303	121,824	181,824	207,824	195,954	195,954	
Project Management	412,000		26,000	53,000	75,000	90,000	84,000	84,000	
<b>Total Cost:</b>	<b>17,428,073</b>		<b>1,134,675</b>	<b>2,185,300</b>	<b>3,210,300</b>	<b>3,722,800</b>	<b>3,587,499</b>	<b>3,587,499</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	2,607,398			485,300	460,300	472,800	469,499	719,499	
General Obligation Bonds	14,820,675		1,134,675	1,700,000	2,750,000	3,250,000	3,118,000	2,868,000	
<b>Total Cost:</b>	<b>17,428,073</b>		<b>1,134,675</b>	<b>2,185,300</b>	<b>3,210,300</b>	<b>3,722,800</b>	<b>3,587,499</b>	<b>3,587,499</b>	



# Capital Project Summary

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**Capital Project Number: GG5001**

**PS Project ID: C12999**

**Capital Project Title: IIT Systemics- General**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: IIT**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

This funding supports the hardware, software and implementation services for county technologies including network infrastructure, video and broadcast equipment, information security and disaster recovery, enterprise software, enterprise hardware, and document management.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
IIT Infrastructure	0								
Furniture and Equipment	0								
Capital Project - Software	0								
Technology Equipment-IIT/DPW	16,959,365		1,407,000	1,407,000	1,307,000	1,307,000	2,291,520	2,884,845	6,355,000
Project Management	0								
<b>Total Cost:</b>	<b>16,959,365</b>		<b>1,407,000</b>	<b>1,407,000</b>	<b>1,307,000</b>	<b>1,307,000</b>	<b>2,291,520</b>	<b>2,884,845</b>	<b>6,355,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	15,359,365		1,107,000	1,107,000	1,107,000	1,107,000	1,991,520	2,584,845	6,355,000
General Obligation Bonds	1,600,000		300,000	300,000	200,000	200,000	300,000	300,000	
<b>Total Cost:</b>	<b>16,959,365</b>		<b>1,407,000</b>	<b>1,407,000</b>	<b>1,307,000</b>	<b>1,307,000</b>	<b>2,291,520</b>	<b>2,884,845</b>	<b>6,355,000</b>



# Capital Project Summary

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**Capital Project Number: GG5005**

**PS Project ID: C12009**

**Capital Project Title: LEAPS**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: IIT**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

This project supports the hardware, software, and professional services to assess, purchase, implement, upgrade, and refresh public safety technology in support of 911 emergency computer aided dispatch, police records management, jail management, public safety mobile devices, and fire and rescue services, dispatch and reporting. These mission critical applications must operate in a 7x24 integrated application environment with complete infrastructure system redundancies.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	0								
Technology Equipment-IIT/DPW	10,699,932	424,932			4,500,000	5,000,000	150,000	150,000	475,000
Project Management	1,228,439	353,439	200,000	175,000	500,000				
<b>Total Cost:</b>	<b>11,928,371</b>	<b>778,371</b>	<b>200,000</b>	<b>175,000</b>	<b>5,000,000</b>	<b>5,000,000</b>	<b>150,000</b>	<b>150,000</b>	<b>475,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,928,371	778,371	200,000	175,000			150,000	150,000	475,000
Capital Leases	10,000,000				5,000,000	5,000,000			
<b>Total Cost:</b>	<b>11,928,371</b>	<b>778,371</b>	<b>200,000</b>	<b>175,000</b>	<b>5,000,000</b>	<b>5,000,000</b>	<b>150,000</b>	<b>150,000</b>	<b>475,000</b>



# Capital Project Summary

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**Capital Project Number: GG5006**

**PS Project ID: C12549**

**Capital Project Title: Enterprise GIS FY09 ongoing**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: IIT**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

This project supports the implementation of the County-wide enterprise Geographic Information System (GIS). GIS includes developing base data layers (parcels, centerlines, addresses, orthophotography, roadway imaging, pictometry); developing applications; creating automated workflows to improve efficiency; data migration; hardware / software upgrades to multiple County departments; and GIS integration with other systems including emergency dispatch, land management, routing systems. Data and costs may be shared with partnering municipalities and federal and state agencies.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	0								
Technology Equipment-IIT/DPW	3,775,504	1,050,504	725,000	125,000	125,000	125,000		1,375,000	250,000
<b>Total Cost:</b>	<b>3,775,504</b>	<b>1,050,504</b>	<b>725,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>		<b>1,375,000</b>	<b>250,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	3,775,504	1,050,504	725,000	125,000	125,000	125,000		1,375,000	250,000
<b>Total Cost:</b>	<b>3,775,504</b>	<b>1,050,504</b>	<b>725,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>		<b>1,375,000</b>	<b>250,000</b>



# Capital Project Summary

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**Capital Project Number: GG5007**

**PS Project ID: C12590**

**Capital Project Title: ERP System- Software**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: IIT**

**Year Identified: 2014**

**Capital Project Status: Open**

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## Capital Project Description:

The project funds an enterprise resource planning system (financials and human resources) refresh.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Project - Software	8,200,000	8,000,000	200,000						
Project Management	84,500	84,500							
<b>Total Cost:</b>	<b>8,284,500</b>	<b>8,084,500</b>	<b>200,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	284,500	84,500	200,000						
Capital Leases	8,000,000	8,000,000							
<b>Total Cost:</b>	<b>8,284,500</b>	<b>8,084,500</b>	<b>200,000</b>						



# Capital Project Summary

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**Capital Project Number: GG5008**

**PS Project ID: C12569**

**Capital Project Title: Financial System FY09 ongoing**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: IIT**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

This project supports software, hardware, and professional services to acquire, implement, and upgrade the Enterprise Resource Management System including financials, human resources, procurement, timesheets, treasury, and banking integration modules to ensure effective government financial accountability and management.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	0								
Technology Equipment-IIT/DPW	1,313,719	513,719		200,000	100,000	100,000	100,000	100,000	200,000
Project Management	48,591	48,591							
<b>Total Cost:</b>	<b>1,362,310</b>	<b>562,310</b>		<b>200,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>200,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,362,310	562,310		200,000	100,000	100,000	100,000	100,000	200,000
<b>Total Cost:</b>	<b>1,362,310</b>	<b>562,310</b>		<b>200,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>200,000</b>



# Capital Project Summary

**Capital Project Number: GG5009**

**PS Project ID: C12008**

**Capital Project Title: Land Management**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: IIT**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project supports hardware, software, and professional services to access, purchase, implement, upgrade, and refresh the underlying business process engineering, dynamic workflow management, systems integration, open architecture, web services based modules and integration for multi-departmental land management, inspections, and licensing.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Furniture and Equipment	49,860	49,860							
Capital Project - Software	3,250,000			1,500,000	1,500,000		100,000		150,000
Technology Equipment-IIT/DPW	450,000	350,000						50,000	50,000
Project Management	400,000			200,000	200,000				
<b>Total Cost:</b>	<b>4,149,860</b>	<b>399,860</b>		<b>1,700,000</b>	<b>1,700,000</b>		<b>100,000</b>	<b>50,000</b>	<b>200,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	689,169	346,169					93,000	50,000	200,000
Capital Leases	3,162,000			1,581,000	1,581,000				
Transfers from Water and Sewer	273,340	28,340		119,000	119,000		7,000		
Transfer from DPDR	25,351	25,351							
<b>Total Cost:</b>	<b>4,149,860</b>	<b>399,860</b>		<b>1,700,000</b>	<b>1,700,000</b>		<b>100,000</b>	<b>50,000</b>	<b>200,000</b>



# Capital Project Summary

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**Capital Project Number: GG5010**

**PS Project ID:**

**Capital Project Title: EAM & Fleet Mgt System - Software**

**Region:**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: IIT**

**Year Identified: 2017**

**Capital Project Status: Open**

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## Capital Project Description:

The Enterprise Asset Management (EAM) and Fleet Management software would provide functionality for the maintenance of the County's facilities, such as administrative buildings, water and sewer plants, parks, vehicles, etc by automating the processing and scheduling of work orders, inventory of supplies, and track preventative maintenance schedules. It would also integrate into the existing HR and Finance software to track costs and estimate costs of new projects.

### Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Project - Software	1,128,377			1,128,377					
<b>Total Cost:</b>	<b>1,128,377</b>			<b>1,128,377</b>					

### Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfers from Water and Sewer	646,298			646,298					
General Obligation Bonds	482,079			482,079					
<b>Total Cost:</b>	<b>1,128,377</b>			<b>1,128,377</b>					



# Capital Project Summary

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**Capital Project Number: GG5015**

**PS Project ID: C12006**

**Capital Project Title: Treasury System**

**Region: Countywide**

**Asset Category: General Government**

**Est Completion Date:**

**Asset Type: IIT**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

This funding supports the software, hardware and professional services to acquire, implement and upgrade the county's tax and billing management system.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Construction	0								
Technology Equipment-IIT/DPW	588,474	288,474		100,000			100,000		100,000
<b>Total Cost:</b>	<b>588,474</b>	<b>288,474</b>		<b>100,000</b>			<b>100,000</b>		<b>100,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	588,474	288,474		100,000			100,000		100,000
<b>Total Cost:</b>	<b>588,474</b>	<b>288,474</b>		<b>100,000</b>			<b>100,000</b>		<b>100,000</b>



# Capital Project Summary

**Capital Project Number: AP1001**

**PS Project ID: C00000**

**Capital Project Title: Unallocated Project**

**Region:**

**Asset Category: Generic**

**Est Completion Date:**

**Asset Type: Generic**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project consists of excess budgeted funds related to completed projects.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	15,000	15,000							
Capital Appropriations	4,356,894	5,006,884	-500,000	-149,900					
<b>Total Cost:</b>	<b>4,371,984</b>	<b>5,021,884</b>	<b>-500,000</b>	<b>-149,900</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	965,380	1,465,380	-500,000						
Transfer From Impact Fee Funds	0								
Trans From Special Taxing Dist	0								
Transfer From 23 Fund	0								
Transfer from 24 fund	0								
General Obligation Bonds	3,406,604	3,556,504		-149,900					
Special Taxing Dist Bonds	0								
Urban Tax District Bonds	0								
Suburban Tax District Bonds	0								
<b>Total Cost:</b>	<b>4,371,984</b>	<b>5,021,884</b>	<b>-500,000</b>	<b>-149,900</b>					

# WATER AND SEWER

## WATER & SEWER

The Frederick County Water and Sewer CIP are funded from a self-supporting enterprise fund. The enterprise obtains its revenue from fees assessed to customers for the provision of water and sewer service. The enterprise fund receives no funding contribution from the County's General Fund.

Funding for water and sewer capacity development is typically obtained through the issuance of General Obligation bonds for which the enterprise has assumed the full burden of payment. The debt service on these bonds is paid for through construction and user fees for projects that benefit existing customers. Capacity development fees, assessed by the enterprise, are based on the estimated cost of the projects approved in the CIP that are programmed for funding by the enterprise fund. A portion of the user rate funds non-growth related projects that benefit existing customers. Since the retirement of debt associated with water and sewer CIP projects is the responsibility of the enterprise, the borrowing of these bonds is not included in the General Fund portion of the County's debt affordability model.

The enterprise's six-year CIP is intended to keep pace with growth by providing the primary elements of the public water supply and sewage disposal systems. Such projects must be consistent with the County's Comprehensive Plan. The CIP also incorporates projects necessary to maintain compliance with the Federal Safe Drinking Water Act and the Clean Water Act.

The following table shows the percentage of each project funded from Water & Sewer Capacity Fees and from Water & Sewer User Rates.

**Table 3**

Water & Sewer Project Funding Source	% Project Cost Recovered By		
	<u>Capacity Fees</u>	<u>User Fees</u>	<u>3<sup>rd</sup> Party Funds</u>
Ballenger-McKinney WWTP Sludge Management	83%		17%
Monrovia Water Storage Tank 2			100%
Lewistown Wastewater Treatment Plan Improvements		42%	58%
Lewistown Wastewater Collection System			100%
Water Storage Tank Improvements		100%	
Lake Linganore Dredging		25%	75%
Sewer Flow Metering		100%	
Monocacy Wastewater Pump Station & Force Main	30%	70%	
Grease Receiving Station at Ballenger-McKinney WWTP		100%	
Truck Scale at New Design Water Treatment Plant		100%	
Route 355 Water Main Relocations		100%	

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

**WATER AND SEWER**

<b>PROJECT</b>	<b>6-Year</b>	<b>Total Project</b>	<b>Prior Budget</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Costs After</b>
Capacity										
Ballenger-McKinney WWTP Sludge Management	59,136,000	59,136,000	0	0	0	0	0	5,320,000	53,816,000	0
Sewerage Problem Area Remediation	0	837,382	0	0	0	0	0	0	0	837,382
Linganore Interceptor 1 - Lower Reach	0	1,505,200	0	0	0	0	0	0	0	1,505,200
Linganore Interceptor 2 - Upper Reach	0	1,062,800	0	0	0	0	0	0	0	1,062,800
Monrovia Water Storage Tank 2	2,953,000	2,953,000	0	0	313,000	2,640,000	0	0	0	0
Developer-Funded Infrastructure	15,000,000	30,000,000	15,000,000	0	0	0	0	0	0	0
Lewisstown Wastewater Treatment Plant Improvements	960,000	960,000	0	960,000	0	0	0	0	0	0
Lewisstown Wastewater Collection System	985,000	985,000	0	250,000	735,000	0	0	0	0	0
<b>Total: Capacity Maintenance</b>	<b>79,034,000</b>	<b>97,439,382</b>	<b>15,000,000</b>	<b>16,210,000</b>	<b>735,000</b>	<b>313,000</b>	<b>2,640,000</b>	<b>5,320,000</b>	<b>53,816,000</b>	<b>3,405,382</b>
Water Storage Tank Improvements	251,000	301,000	50,000	251,000	0	0	0	0	0	0
Lake Linganore Dredging	1,918,000	3,750,000	1,832,000	1,918,000	0	0	0	0	0	0
Sewer Flow Metering	280,000	650,000	370,000	280,000	0	0	0	0	0	0
Monocacy Wastewater Pump Station & Force Main	20,089,000	28,349,500	8,260,500	20,089,000	0	0	0	0	0	0
Ballenger Water Tank painting	493,250	493,250	0	83,000	410,250	0	0	0	0	0
Grease Receiving Station at Ballenger-McKinney WWTP	1,102,500	1,102,500	0	0	187,500	915,000	0	0	0	0
Truck Scale at New Design Water Treatment Plant	604,000	604,000	0	0	0	0	0	254,000	350,000	0
Route 355 Water Main Relocations	378,000	378,000	0	378,000	0	0	0	0	0	0
<b>Total: Maintenance</b>	<b>25,115,750</b>	<b>35,628,250</b>	<b>10,512,500</b>	<b>22,999,000</b>	<b>597,750</b>	<b>915,000</b>	<b>0</b>	<b>254,000</b>	<b>350,000</b>	<b>0</b>
<b>Total Expense</b>	<b>104,149,750</b>	<b>133,067,632</b>	<b>25,512,500</b>	<b>39,209,000</b>	<b>1,332,750</b>	<b>1,228,000</b>	<b>2,640,000</b>	<b>5,574,000</b>	<b>54,166,000</b>	<b>3,405,382</b>
<b>FUNDING</b>										
Enterprise Fee & Bonds	77,445,730	88,182,248	8,860,400	25,861,100	982,750	915,000	0	4,669,600	45,017,280	1,876,118
Other	26,704,020	44,885,384	16,652,100	13,347,900	350,000	313,000	2,640,000	904,400	9,148,720	1,529,264
<b>Total Funding Source</b>	<b>104,149,750</b>	<b>133,067,632</b>	<b>25,512,500</b>	<b>39,209,000</b>	<b>1,332,750</b>	<b>1,228,000</b>	<b>2,640,000</b>	<b>5,574,000</b>	<b>54,166,000</b>	<b>3,405,382</b>



# Capital Project Summary

**Capital Project Number: WS1001**

**PS Project ID:**

**Capital Project Title: Ballenger-McKinney WWTP Sludge Management**

**Region: Adamstown, Frederick, New Market, Urbana,...**

**Asset Category: Water and Sewer**

**Est Completion Date: 7/26/2024**

**Asset Type: Capacity**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project was formally known as "McKinney WWTP Phase 1" and includes the design and construction of the first phase (15 MGD) sludge management improvements in accordance with the Ballenger Creek/McKinney WWTP Facility Plan dated March 2006. Per the Facility Plan, improvements are required when the average daily flow reaches 10 MGD. The City of Frederick's portion is assumed to be 17% of the project cost.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	5,651,000						5,320,000	331,000	
Construction WS County Funded	49,000,000							49,000,000	
Capitalized Interest Expense	2,550,000							2,550,000	
Overhead - W/S	370,000							370,000	
Project Management & Inspections	1,565,000							1,565,000	
<b>Total Cost:</b>	<b>59,136,000</b>						<b>5,320,000</b>	<b>53,816,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	46,532,880						4,415,600	42,117,280	
Trf from Cash Fund of Cap Proj	2,550,000							2,550,000	
Municipal Contribution	10,053,120						904,400	9,148,720	
<b>Total Cost:</b>	<b>59,136,000</b>						<b>5,320,000</b>	<b>53,816,000</b>	



# Capital Project Summary

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**Capital Project Number: WS1002**

**Capital Project Title: Sewerage Problem Area Remediation**

**Asset Category: Water and Sewer**

**Asset Type: Capacity**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Adamstown, Frederick, New Market, Urbana,...**

**Est Completion Date:**

**Year Identified: 2010**

## Capital Project Description:

This project serves as a placeholder to remediate sewage problem areas as needed. (Previously named Broadview Acres - but is now more generic in nature)

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	59,382								59,382
Architect/Engineering	107,000								107,000
Construction	577,000								577,000
Capitalized Interest Expense	38,000								38,000
Overhead - W/S	28,000								28,000
Project Management & Inspections	28,000								28,000
<b>Total Cost:</b>	<b>837,382</b>								<b>837,382</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	799,382								799,382
Trf from Cash Fund of Cap Proj	38,000								38,000
<b>Total Cost:</b>	<b>837,382</b>								<b>837,382</b>



# Capital Project Summary

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**Capital Project Number: WS1012**

**PS Project ID:**

**Capital Project Title: Linganore Interceptor 1 - Lower Reach**

**Region: New Market**

**Asset Category: Water and Sewer**

**Est Completion Date:**

**Asset Type: Capacity**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

Existing pipe unable to meet projected build out peak flows without surcharging. Replacement eliminates pipe segments with sags, reverse slopes, and inflow & infiltration. Projected need between year 2015 and 2025. Information is pursuant to the March 2004 Interceptor Sewer Capacity Analysis prepared by Whitman, Requardt and Associates.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	216,200								216,200
Construction WS County Funded	1,173,000								1,173,000
Capitalized Interest Expense	40,000								40,000
Overhead - W/S	38,000								38,000
Project Management & Inspections	38,000								38,000
<b>Total Cost:</b>	<b>1,505,200</b>								<b>1,505,200</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	634,036								634,036
Trf from Cash Fund of Cap Proj	40,000								40,000
Developer Contributions	831,164								831,164
<b>Total Cost:</b>	<b>1,505,200</b>								<b>1,505,200</b>



# Capital Project Summary

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**Capital Project Number: WS1013**

**PS Project ID:**

**Capital Project Title: Linganore Interceptor 2 - Upper Reach**

**Region: New Market**

**Asset Category: Water and Sewer**

**Est Completion Date:**

**Asset Type: Capacity**

**Year Identified: 2010**

**Capital Project Status: Open**

---

## Capital Project Description:

Interceptor is unable to meet 2025 flows without surcharging. Replacement eliminates existing sewers with reverse slopes and sags, with the new pipe sized for build out flows. Information is pursuant to the March 2004 Interceptor Sewer Capacity Analysis prepared by Whitman, Requardt and Associates.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	147,500								147,500
Construction WS County Funded	778,600								778,600
Capitalized Interest Expense	51,000								51,000
Overhead - W/S	42,850								42,850
Project Management & Inspections	42,850								42,850
<b>Total Cost:</b>	<b>1,062,800</b>								<b>1,062,800</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	313,700								313,700
Trf from Cash Fund of Cap Proj	51,000								51,000
Developer Contributions	698,100								698,100
<b>Total Cost:</b>	<b>1,062,800</b>								<b>1,062,800</b>



# Capital Project Summary

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**Capital Project Number: WS1023**

**Capital Project Title: Monrovia Water Storage Tank 2**

**Asset Category: Water and Sewer**

**Asset Type: Capacity**

**Capital Project Status: Open**

**PS Project ID:**

**Region: New Market**

**Est Completion Date: 6/29/2020**

**Year Identified: 2015**

## Capital Project Description:

Developer Funded project for design and construction of a new 1.0 MG elevated water storage tank located on the Landsdale or Monrovia Town Center site. Memorandum of Understanding between developer(s) and Frederick County is required.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	253,000				253,000				
Construction WS County Funded	2,500,000					2,500,000			
Overhead - W/S	60,000				60,000				
Project Management & Inspections	140,000					140,000			
<b>Total Cost:</b>	<b>2,953,000</b>				<b>313,000</b>	<b>2,640,000</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Developer Contributions	2,953,000				313,000	2,640,000			
<b>Total Cost:</b>	<b>2,953,000</b>				<b>313,000</b>	<b>2,640,000</b>			



# Capital Project Summary

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**Capital Project Number: WS1028**

**PS Project ID: 012000**

**Capital Project Title: Developer-Funded Infrastructure**

**Region: Countywide**

**Asset Category: Water and Sewer**

**Est Completion Date:**

**Asset Type: Capacity**

**Year Identified: 2016**

**Capital Project Status: Open**

---

## Capital Project Description:

Project contains all developer-funded water and sewer projects constructed under Public Works Agreements (PWAs) and Public Improvement Agreements (PIAs) and includes all sub-projects necessary to track different information.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Const WS Developer Funded	30,000,000	15,000,000	15,000,000						
<b>Total Cost:</b>	30,000,000	15,000,000	15,000,000						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Developer Contributions	30,000,000	15,000,000	15,000,000						
<b>Total Cost:</b>	30,000,000	15,000,000	15,000,000						



# Capital Project Summary

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**Capital Project Number: WS1032**

**PS Project ID:**

**Capital Project Title: Lewistown Wastewater Treatment Plant Improvements**

**Region: Countywide**

**Asset Category: Water and Sewer**

**Est Completion Date: 7/2/2018**

**Asset Type: Capacity**

**Year Identified: 2017**

**Capital Project Status: Open**

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## Capital Project Description:

The DUSWM currently maintains a sand mound system which serves the Elementary School and Fire Station. This project includes study, design, and construction services required to replace the existing system with a more conventional package treatment system. The engineering study included in this project will identify detailed sizing and other design parameters.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	165,000		165,000						
Construction WS County Funded	650,000		650,000						
Overhead - W/S	50,000		50,000						
Project Management & Inspections	95,000		95,000						
<b>Total Cost:</b>	<b>960,000</b>		<b>960,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Loan Proceeds	560,000		560,000						
Transfer from R, R & R	400,000		400,000						
<b>Total Cost:</b>	<b>960,000</b>		<b>960,000</b>						



# Capital Project Summary

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**Capital Project Number: WS1033**

**PS Project ID:**

**Capital Project Title: Lewistown Wastewater Collection System**

**Region: Countywide**

**Asset Category: Water and Sewer**

**Est Completion Date: 12/23/2017**

**Asset Type: Capacity**

**Year Identified: 2017**

**Capital Project Status: Open**

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## Capital Project Description:

This project includes the design and construction of a low pressure sewer/grinder pump collectoin system to serve a yet to be defined service area in Lewistown. Funding is expected from a MDE loan/grant and a benefit assessment (BA) which may be levied against each property to be served. An amendment is required to the County Water and Sewerage Plan.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	120,000		120,000						
Construction WS County Funded	735,000			735,000					
Overhead - W/S	45,000		45,000						
Project Management & Inspections	85,000		85,000						
<b>Total Cost:</b>	<b>985,000</b>		<b>250,000</b>	<b>735,000</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Loan Proceeds	635,000		250,000	385,000					
Contrib from property owners	350,000			350,000					
<b>Total Cost:</b>	<b>985,000</b>		<b>250,000</b>	<b>735,000</b>					



# Capital Project Summary

**Capital Project Number: WS1017**

**PS Project ID: 105049**

**Capital Project Title: Water Storage Tank Improvements**

**Region: New Market, Urbana**

**Asset Category: Water and Sewer**

**Est Completion Date: 2/24/2017**

**Asset Type: Maintenance**

**Year Identified: 2015**

**Capital Project Status: Open**

## Capital Project Description:

Project includes installation of mixing and/or aeration systems in three existing water storage tanks to assist in removal of potential disinfection byproducts. Tanks are Monrovia, East County, and Urbana Tank No. 1.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	50,000	50,000							
Construction WS County Funded	185,000		185,000						
Capitalized Interest Expense	12,000		12,000						
Overhead - W/S	18,000		18,000						
Project Management & Inspections	36,000		36,000						
<b>Total Cost:</b>	<b>301,000</b>	<b>50,000</b>	<b>251,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	289,000	50,000	239,000						
Trf from Cash Fund of Cap Proj	12,000		12,000						
<b>Total Cost:</b>	<b>301,000</b>	<b>50,000</b>	<b>251,000</b>						



# Capital Project Summary

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**Capital Project Number: WS1022**

**PS Project ID: 012044**

**Capital Project Title: Lake Linganore Dredging**

**Region: New Market**

**Asset Category: Water and Sewer**

**Est Completion Date:**

**Asset Type: Maintenance**

**Year Identified: 2015**

**Capital Project Status: Open**

---

## Capital Project Description:

Project includes Frederick County portion of costs as stipulated in a yet to be created three-party agreement with Frederick City and Lake Linganore Association. Budget assumes County share at 25%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	668,000	668,000							
Construction WS County Funded	14,332,000	6,660,000	7,672,000						
W/S Dredge Recovery	-11,250,000	-5,496,000	-5,754,000						
<b>Total Cost:</b>	<b>3,750,000</b>	<b>1,832,000</b>	<b>1,918,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	0	1,832,000	-1,832,000						
Trf from Cash Fund of Cap Proj	3,750,000		3,750,000						
<b>Total Cost:</b>	<b>3,750,000</b>	<b>1,832,000</b>	<b>1,918,000</b>						



# Capital Project Summary

**Capital Project Number: WS1024**

**PS Project ID: 204081**

**Capital Project Title: Sewer Flow Metering**

**Region: Frederick, New Market,  
Urbana, Walkersville**

**Asset Category: Water and Sewer**

**Est Completion Date: 12/29/2017**

**Asset Type: Maintenance**

**Year Identified: 2015**

**Capital Project Status: Open**

## Capital Project Description:

Project includes study, design, and installation of six permanent flow metering stations as specified in the Monocacy Sewershed Wastewater Utility Study Phase II (page 18 & Figure 4-1) in support of a long-term flow monitoring program.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	175,000	75,000	100,000						
Construction WS County Funded	380,000	240,000	140,000						
Capitalized Interest Expense	30,000		30,000						
Overhead - W/S	25,000	15,000	10,000						
Project Management & Inspections	40,000	40,000							
<b>Total Cost:</b>	<b>650,000</b>	<b>370,000</b>	<b>280,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	620,000	370,000	250,000						
Trf from Cash Fund of Cap Proj	30,000		30,000						
<b>Total Cost:</b>	<b>650,000</b>	<b>370,000</b>	<b>280,000</b>						



# Capital Project Summary

**Capital Project Number: WS1026**

**PS Project ID: 206035**

**Capital Project Title: Monocacy Wastewater Pump Station & Force Main**

**Region: Frederick**

**Asset Category: Water and Sewer**

**Est Completion Date: 12/31/2017**

**Asset Type: Maintenance**

**Year Identified: 2014**

**Capital Project Status: Open**

## Capital Project Description:

Design and construction of a sewage pump station to convey County flows from the City of Frederick WWTP (or WTP) to the conveyance system draining to the Ballenger-McKinney WWTP. Project includes the pump station, headworks, chemical feed system for odor control, and grit removal. This project is assigned contract No. 273-S. FY2017: changed project name (was Wastewater Pump Station 1B), included force main in scope, verified station location at City WTP, removed City funding contribution.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	1,903,000	759,000	1,144,000						
Construction WS County Funded	23,382,000	6,900,000	16,482,000						
Capitalized Interest Expense	1,350,000		1,350,000						
Overhead - W/S	550,500	137,500	413,000						
Project Management & Inspections	1,164,000	464,000	700,000						
<b>Total Cost:</b>	<b>28,349,500</b>	<b>8,260,500</b>	<b>20,089,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	26,999,500	6,608,400	20,391,100						
Trf from Cash Fund of Cap Proj	1,350,000		1,350,000						
Municipal Contribution	0	1,652,100	-1,652,100						
<b>Total Cost:</b>	<b>28,349,500</b>	<b>8,260,500</b>	<b>20,089,000</b>						



# Capital Project Summary

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**Capital Project Number: WS1027**

**Capital Project Title: Ballenger Water Tank painting**

**Asset Category: Water and Sewer**

**Asset Type: Maintenance**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Frederick**

**Est Completion Date: 10/26/2018**

**Year Identified: 2016**

## Capital Project Description:

Project includes design, preparation, and application of replacement interior and exterior coatings on the 0.55 MG Ballenger elevated water storage tank. Tank was last painted in 1998 under contract 70A-W.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	52,000		52,000						
Construction WS County Funded	359,000			359,000					
Overhead - W/S	31,000		31,000						
Project Management & Inspections	51,250			51,250					
<b>Total Cost:</b>	<b>493,250</b>		<b>83,000</b>	<b>410,250</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer from R, R & R	493,250		83,000	410,250					
<b>Total Cost:</b>	<b>493,250</b>		<b>83,000</b>	<b>410,250</b>					



# Capital Project Summary

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**Capital Project Number: WS1034**

**PS Project ID:**

**Capital Project Title: Grease Receiving Station at Ballenger-McKinney WWTP**

**Region: Countywide**

**Asset Category: Water and Sewer**

**Est Completion Date: 7/28/2019**

**Asset Type: Maintenance**

**Year Identified: 2017**

**Capital Project Status: Open**

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## Capital Project Description:

Project includes study, design, construction, and inspection services required to site and construct a grease receiving station at the Ballenger-McKinney WWTP. An engineering study is included in the project in order to better define design parameters.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	235,000			60,000	175,000				
Construction WS County Funded	650,000				650,000				
Capitalized Interest Expense	52,500			52,500					
Overhead - W/S	75,000			75,000					
Project Management & Inspections	90,000				90,000				
<b>Total Cost:</b>	<b>1,102,500</b>			<b>187,500</b>	<b>915,000</b>				

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer from R, R & R	1,102,500			187,500	915,000				
<b>Total Cost:</b>	<b>1,102,500</b>			<b>187,500</b>	<b>915,000</b>				



# Capital Project Summary

**Capital Project Number: WS1035**

**PS Project ID:**

**Capital Project Title: Truck Scale at New Design Water Treatment Plant**

**Region: Countywide**

**Asset Category: Water and Sewer**

**Est Completion Date: 12/24/2022**

**Asset Type: Maintenance**

**Year Identified: 2017**

**Capital Project Status: Open**

## Capital Project Description:

Project includes design and construction services required to install a truck scale to weigh dried residuals that are produced by the water treatment process and then hauled to an approved disposal site.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	100,000						100,000		
Construction WS County Funded	350,000							350,000	
Capitalized Interest Expense	29,000						29,000		
Overhead - W/S	50,000						50,000		
Project Management & Inspections	75,000						75,000		
<b>Total Cost:</b>	<b>604,000</b>						<b>254,000</b>	<b>350,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	575,000						225,000	350,000	
Trf from Cash Fund of Cap Proj	29,000						29,000		
<b>Total Cost:</b>	<b>604,000</b>						<b>254,000</b>	<b>350,000</b>	



# Capital Project Summary

**Capital Project Number: WS1036**

**Capital Project Title: Route 355 Water Main Relocations**

**Asset Category: Water and Sewer**

**Asset Type: Maintenance**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Urbana**

**Est Completion Date:**

**Year Identified: 2017**

## Capital Project Description:

The State Highway Administration (SHA) is executing a project to replace the Route 355 bridge over the railroad. The DUSWM maintains a 16-inch water main in Route 355 and on this bridge. This project includes cost to have the required water main relocations designed and constructed under the SHA bridge replacement project so the work can be properly coordinated between all parties involved.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	60,000		60,000						
Construction WS County Funded	250,000		250,000						
Capitalized Interest Expense	18,000		18,000						
Overhead - W/S	25,000		25,000						
Project Management & Inspections	25,000		25,000						
<b>Total Cost:</b>	<b>378,000</b>		<b>378,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Enterprise Fund Bonds	360,000		360,000						
Trf from Cash Fund of Cap Proj	18,000		18,000						
<b>Total Cost:</b>	<b>378,000</b>		<b>378,000</b>						

# SOLID WASTE

## **SOLID WASTE**

The Solid Waste CIP is also funded from a self-supporting fund, the Solid Waste Fund. In addition, the Solid Waste Department is able to issue Enterprise Bonds for large projects. Both revenue sources are the result of user fees and tipping fees paid by the public. Frederick County has only one publicly owned and operated solid waste disposal facility, which is located on Reich's Ford Road. This facility was expanded in land area several years ago and the newest disposal area (Cell 2B) was opened for operation in November 2003.

There are currently no projects programmed.

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# PARKS AND RECREATION

## PARKS AND RECREATION

The Frederick County Comprehensive Plan Chapter 7, Serving Our Citizens, lists two of its five goals as “Provide for community services and facilities in an efficient and timely manner relative to the pace of growth” and “Maintain adequacy of public facilities and services relative to existing and projected targeted populations”. The Frederick County Land Preservation, Parks and Recreation Plan outlines proposals for the development of specific parks and recreation systems. The park/open space system proposed for Frederick County under this Plan includes a variety of recreation areas and facilities to meet the various needs of County residents.

The 2012 Frederick County Land Preservation, Parks and Recreation Plan includes a variety of recreation areas and facilities to meet the various recreational needs of County residents. To gauge the adequate level of recreational acreage, the State of Maryland has a standard for local governments to achieve a goal of 30 acres of parkland for every 1,000 residents. The State standard allows for not only calculating county and municipal parkland acreage, but can also include eligible state and federal parkland, as well as a portion of public school property and a percentage of Natural Resource Lands. Based on the State standard, the County has 41 acres/1,000 population. The State standard allows for the parkland acreage requirements; however this standard does not address public access to the site, nor recreational amenities that may be needed to meet public demand. Therefore, Frederick County will continue to give consideration to acquiring additional parkland in areas of the County that are deemed appropriate.

Note: Based on the differences in function, size, area and population served, parks have been classified into Neighborhood Parks (NP - 1 to 10 acres), Community Parks (CP - 30 to 75 acres) and District/Regional Parks (DP/RP – 100 + acres).

- **Acquisition** - Funding is programmed for each fiscal year to allow acreage recommended in the Land Preservation, Parks and Recreation Plan to be acquired. An acquisition category has been established to permit acquisition of sites in priority areas based upon opportunities as they arise. Funding from this project (FY2017) is being transferred to expand the scope of Othello Regional Park and to fund the park school at Sugarloaf ES: New
- **Othello Regional Park** – A site for this park was acquired in 2008. Future development may include standard facilities such as ball fields, playgrounds, tennis courts, shelters etc. Construction funding is scheduled for FY17.

Site of the future  
Othello Regional  
Park



- **Old National Pike District Park Phase 2** – Development will include construction of picnic shelters, athletic fields/courts, playgrounds, restrooms, etc. Funding for design is scheduled for FY2021.

- **Middletown Community Park Development & Rehab** – This project will include both an expansion to the existing park and a rehabilitation of the current facilities. Funding for design is scheduled for FY2019 and construction in FY2021.

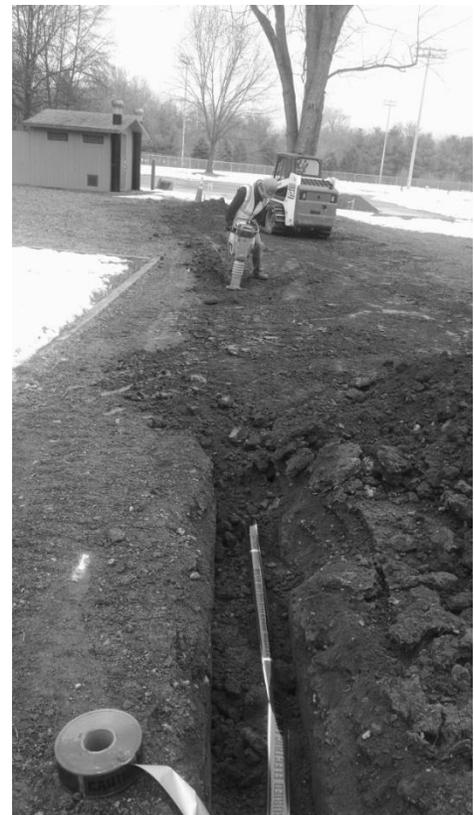


Installing a walking trail at Loy’s Station Park (funded in FY2016)

- **Utica District Park Phase 2** – A redesign is scheduled for FY17 and construction is scheduled for FY19. Improvements may include shelters, ball fields, playgrounds, restrooms, basketball and tennis courts, trails, parking, etc. The separate synthetic turf project was incorporated into this project. It will convert an existing natural grass multi-purpose field to synthetic turf and includes field lighting, bleachers with small press box, sound system, score board, fencing, security cameras and field maintenance equipment.

- **Parks Systemics** – Various projects are proposed throughout the six-year including major repairs, maintenance, and upkeep of existing park facilities, roads, and land

- **Kempton CP Rehabilitation** – includes replacing fences, lights, roofs, etc., renovating amphitheater stage, seating, and pavilions, and patching or repairing pavement. Construction funding is scheduled in FY17.



Pinecliff Park Restroom and Sewer Upgrade (funded in prior years)

- **Master Plans and Feasibilities -**

Three master plans/feasibilities are scheduled during this 6 year program

- FY2021 – Point of Rocks Regional Park
- FY2022 – Ballenger Creek Parks Maintenance area & Widrick House
- FY2022 – Bridgeport Monocacy River Access



Widrick House

- **Bikeways Trails Program** – This project includes trail development in corridors identified in the Frederick County Bikeways and Trails Plan. Design and construction are scheduled in alternating years

- **Parks/Schools** - This program is designed to provide funding to add recreational facilities not normally associated with the regular BOE program such as storage space, meeting rooms, parks office space, and expanded gyms. Those schools located within the Frederick City limits will be run by the City of Frederick. The following schools are scheduled:
  - Sugarloaf ES: New is scheduled in FY18

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

**PARKS & RECREATION**

<b>PROJECT</b>	<b>6-Year</b>	<b>Total Project</b>	<b>Prior Budget</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Costs After</b>
<b>Parks &amp; Recreation</b>										
Acquisition	200,000	6,744,180	6,544,180	(1,900,000)	100,000	500,000	500,000	500,000	500,000	0
Othello Regional Park	7,429,910	7,999,570	569,660	7,429,910	0	0	0	0	0	0
Old National Pike DP - Ph 2	650,127	7,474,076	0	0	0	0	0	650,127	0	6,823,949
Middletown CP Development & Rehab	5,060,918	5,060,918	0	0	0	726,612	0	4,334,306	0	0
Point of Rocks Regional Park Master Plan	210,000	210,000	0	0	0	0	0	210,000	0	0
Utica DP - Phase 2	16,134,219	16,928,709	794,490	256,775	0	15,877,444	0	0	0	0
Parks Systemic	4,180,972	8,323,820	1,012,500	525,312	525,312	782,587	782,587	782,587	782,587	3,130,348
Kemptown CP - Rehabilitation	1,258,370	1,385,224	126,854	1,258,370	0	0	0	0	0	0
Ballenger Creek Park Maintenance Area & Widrick House Rehabilitation	110,000	110,000	0	0	0	0	0	0	110,000	0
Bikeways/Trails Program	2,795,213	4,379,960	1,584,747	0	1,300,254	194,705	1,300,254	0	0	0
Bridgeport Monocacy River Access	110,000	110,000	0	0	0	0	0	0	110,000	0
Park Schools	800,000	1,488,000	688,000	0	800,000	0	0	0	0	0
South County YMCA, Indoor Pool Partnership	2,000,000	2,000,000	0	0	0	500,000	500,000	500,000	500,000	0
<b>Total: Parks &amp; Recreation</b>	<b>40,939,729</b>	<b>62,214,457</b>	<b>11,320,431</b>	<b>7,570,367</b>	<b>2,725,566</b>	<b>18,581,348</b>	<b>3,082,841</b>	<b>6,977,020</b>	<b>2,002,587</b>	<b>9,954,297</b>
<b>Total Expense</b>	<b>40,939,729</b>	<b>62,214,457</b>	<b>11,320,431</b>	<b>7,570,367</b>	<b>2,725,566</b>	<b>18,581,348</b>	<b>3,082,841</b>	<b>6,977,020</b>	<b>2,002,587</b>	<b>9,954,297</b>
<b>FUNDING</b>										
General Fund	4,429,115	8,257,178	540,746	275,312	323,376	844,199	830,651	1,152,990	1,002,587	3,287,317
General Fund Bonds & Capital Lease	9,578,130	13,150,130	1,572,000	695,145	250,000	6,965,935	500,000	667,050	500,000	2,000,000
Recordation Tax & Bonds	25,446,482	36,498,465	6,385,003	6,552,243	1,504,523	10,723,547	1,104,523	5,109,313	452,333	4,666,980
Grants	1,486,002	4,183,684	2,697,682	47,667	647,667	47,667	647,667	47,667	47,667	0
Other	0	125,000	125,000	0	0	0	0	0	0	0
<b>Total Funding Source</b>	<b>40,939,729</b>	<b>62,214,457</b>	<b>11,320,431</b>	<b>7,570,367</b>	<b>2,725,566</b>	<b>18,581,348</b>	<b>3,082,841</b>	<b>6,977,020</b>	<b>2,002,587</b>	<b>9,954,297</b>



# Capital Project Summary

**Capital Project Number: PR0001**

**PS Project ID: C47099**

**Capital Project Title: Acquisition**

**Region: Middletown, New Market,  
Thurmont, Walkersville**

**Asset Category: Parks & Recreation**

**Est Completion Date:**

**Asset Type: Parks & Recreation**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

The unallocated acquisition category was established to permit acquisition of park sites based upon opportunities as they arise. Once an option to purchase is executed, a separate project can be created and the appropriate funds transferred. The following priority areas of projects are scheduled: Emmitsburg/ Thurmont Area RP/DP, New Market/ Spring Ridge Area CP, and Green Valley/Monrovia Area CP.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	6,744,180	6,544,180	-1,900,000	100,000	500,000	500,000	500,000	500,000	
<b>Total Cost:</b>	<b>6,744,180</b>	<b>6,544,180</b>	<b>-1,900,000</b>	<b>100,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Dept of Natural Resources	2,486,874	2,200,872	47,667	47,667	47,667	47,667	47,667	47,667	
Transfer From General Fund	0								
Transfer From 23 Fund	688,642	688,642							
Recordation Tax Bonds	3,568,664	3,654,666	-1,947,667	52,333	452,333	452,333	452,333	452,333	
<b>Total Cost:</b>	<b>6,744,180</b>	<b>6,544,180</b>	<b>-1,900,000</b>	<b>100,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	



# Capital Project Summary

**Capital Project Number: PR1022**

**PS Project ID: C47038**

**Capital Project Title: Othello Regional Park**

**Region: Brunswick**

**Asset Category: Parks & Recreation**

**Est Completion Date: 3/8/2019**

**Asset Type: Parks & Recreation**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

The BOCC, along with the Maryland Department of Natural Resources, has entered into a Memorandum of Understanding for the development of "green" infrastructure for future park improvements and for establishing conservation and habitat restoration areas on the property. Design for the first phase of development was initiated in FY2015. Future development will include standard facilities for Regional (formally referred to as District) Parks. As indicated in the 2012 LPPRP, a Regional Park is oriented to providing active recreational uses such as athletic fields, playgrounds, tennis courts, and shelters. The Frederick County Parks and Recreation Commission has recommended that one of the future multipurpose fields be synthetic turf. Once cost estimates are determined, the proposed synthetic turf field may be designed as an add-alternate, included in this development project. If a synthetic turf field is approved for this project, additional operating costs will be needed in FY2019. Additional phases will be determined in future CIP requests. FY2017: IIT costs adjusted based upon IIT analysis. All other costs escalated 2.5%

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	29,830	29,830							
Site Improvement	71,022		71,022						
Architect/Engineering	586,780	436,780	150,000						
Planning/Study	113,636		113,636						
Construction	6,650,570		6,650,570						
IIT Infrastructure	36,550		36,550						
Project Management & Inspections	250,839	49,000	201,839						
Furniture and Equipment	111,833		111,833						
Technology Equipment-IIT/DPW	64,460		64,460						
Project Management	84,050	54,050	30,000						
<b>Total Cost:</b>	<b>7,999,570</b>	<b>569,660</b>	<b>7,429,910</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	63,112	63,112							
Transfer From 23 Fund	2,028,108	506,548	1,521,560						
Recordation Tax Bonds	5,908,350		5,908,350						
<b>Total Cost:</b>	<b>7,999,570</b>	<b>569,660</b>	<b>7,429,910</b>						



# Capital Project Summary

**Capital Project Number:** PR1026

**PS Project ID:**

**Capital Project Title:** Old National Pike DP - Ph 2

**Region:** New Market

**Asset Category:** Parks & Recreation

**Est Completion Date:** 6/26/2023

**Asset Type:** Parks & Recreation

**Year Identified:** 2010

**Capital Project Status:** Open

## Capital Project Description:

Development will include construction of facilities such as picnic shelters, basketball courts, tennis courts, athletic fields, athletic field lights, playgrounds, volleyball courts, restrooms, concession/comfort stations, an amphitheater, paved hike/bike trail, landscaping, roads and parking lots. Additional phases will be determined in future CIP requests. FY2017: IIT costs adjusted based upon IIT review. All other costs escalated 2.5%

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	192,306								192,306
Architect/Engineering	574,734						574,734		
Construction	5,768,099								5,768,099
IIT Infrastructure	29,600								29,600
Project Management & Inspections	295,741						50,393		245,348
Furniture and Equipment	502,596								502,596
Technology Equipment-IIT/DPW	56,000								56,000
Project Management	55,000						25,000		30,000
<b>Total Cost:</b>	<b>7,474,076</b>						<b>650,127</b>		<b>6,823,949</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	2,212,096						55,127		2,156,969
Transfer From 23 Fund	2,095,000						595,000		1,500,000
Recordation Tax Bonds	3,166,980								3,166,980
<b>Total Cost:</b>	<b>7,474,076</b>						<b>650,127</b>		<b>6,823,949</b>



# Capital Project Summary

**Capital Project Number: PR1028**

**PS Project ID:**

**Capital Project Title: Middletown CP Development & Rehab**

**Region: Middletown**

**Asset Category: Parks & Recreation**

**Est Completion Date: 9/3/2021**

**Asset Type: Parks & Recreation**

**Year Identified: 2013**

**Capital Project Status: Open**

## Capital Project Description:

This project includes both an expansion to the existing Community Park and a rehabilitation of current facilities, where appropriate. The expansion portion of the project is requested to emphasize development in the eastern section of the Park. Construction may include the development of a soccer/football field, little league field, parking lot, playground, restroom, and pond dredging with bank erosion protection. Construction of a restroom near the pond and installation of athletic field lighting for two (2) softball and two (2) little league fields and replacement of existing perimeter guardrail may also be accomplished. The rehabilitation portion of the project is intended to make improvements to park components that have reached the end of their life cycle. Park amenities and facilities projected to be included in this portion of this project may include, where appropriate, replacement of both entrance signs; repair/resurfacing of road/walkway paving; install paved sidewalk over dam; replace bleacher pad pavement with concrete; pave maintenance yard and enlarge overflow parking lot; replace shop and concession roofing; replace shelter electrical systems; improvements to pond; replace aerator system; replace truck shed and wood shop; install bulk storage bins; replace maintenance yard fence, replace all backstops/overthrow and outfield fences, replace fountains, valve vault and valves and water piping as needed, rehab restroom interior and replace street lights where needed, install lights along maintenance road and recycling area, and install security lighting/camera system in shop yard. Project will also include updating/amending the current Park Master Plan to include a skate spot, which was approved by the BOCC on September 15, 2009. Some miscellaneous park equipment may also be replaced, as appropriate. FY2017: IIT costs adjusted based upon IIT review. All other costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	20,281						20,281		
Site Improvement	189,028				189,028				
Architect/Engineering	456,728				456,728				
Construction	3,939,003						3,939,003		
IIT Infrastructure	50,600						50,600		
Project Management & Inspections	215,928				50,856		165,072		
Furniture and Equipment	112,750						112,750		
Technology Equipment-IIT/DPW	16,600						16,600		
Project Management	60,000				30,000		30,000		
<b>Total Cost:</b>	<b>5,060,918</b>				<b>726,612</b>		<b>4,334,306</b>		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	166,888				61,612		105,276		
Transfer From 23 Fund	4,726,980				665,000		4,061,980		
General Obligation Bonds	167,050						167,050		
<b>Total Cost:</b>	<b>5,060,918</b>				<b>726,612</b>		<b>4,334,306</b>		



# Capital Project Summary

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**Capital Project Number: PR1031**

**PS Project ID:**

**Capital Project Title: Point of Rocks Regional Park Master Plan**

**Region: Adamstown**

**Asset Category: Parks & Recreation**

**Est Completion Date:**

**Asset Type: Parks & Recreation**

**Year Identified: 2016**

**Capital Project Status: Open**

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## Capital Project Description:

A site was acquired in 2010. The purpose of a Master Plan is to create a long-range comprehensive vision for the park to be used as a guide to future development. During the master planning process, the site is considered in the context of the surrounding neighborhood, as well as one park of many within the Frederick County Parks and Recreation system. When approved, this document will serve as a long-term decision making tool to be referred to during future design and construction projects.

### Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Planning/Study	200,000						200,000		
Project Management	10,000						10,000		
<b>Total Cost:</b>	<b>210,000</b>						<b>210,000</b>		

### Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	210,000						210,000		
<b>Total Cost:</b>	<b>210,000</b>						<b>210,000</b>		



# Capital Project Summary

**Capital Project Number: PR1032**

**PS Project ID: C47039**

**Capital Project Title: Utica DP - Phase 2**

**Region: Frederick**

**Asset Category: Parks & Recreation**

**Est Completion Date: 6/27/2021**

**Asset Type: Parks & Recreation**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

Facilities scheduled for development in Phase 2 include roads & parking, water service, electric utilities, shelters, athletic fields (one synthetic turf field), athletic field lighting, playgrounds, restrooms, basketball courts, tennis courts, trails, and the construction of a vehicular bridge to cross the creek. Some of these improvements would be for facilities that were not constructed in Phase 1 due to funding constraints. Funding is allocated under site improvements to continue preservation work on the Snook Family Farmstead possibly utilizing the partnership agreement with the NPS. The first priority would be to renovate the main house and to undertake any stabilization work as needed on the remaining structures. Additional phases will be submitted separately as part of future CIP requests. Capital Equipment costs in the amount of \$221,676 are for the purchase of equipment such as a chipper, a tractor with various turf maintenance attachments, mowers, a generator and a trailer. Redesign funding is requested in FY2017, with construction to follow in FY2019. FY2017: IIT costs adjusted based upon IIT review. All other costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	145,676				145,676				
Site Improvement	2,127,328	11,958			2,115,370				
Architect/Engineering	676,889	414,002	236,775		26,112				
Construction	12,995,130	295,130			12,700,000				
IIT Infrastructure	79,000				79,000				
Project Management & Inspections	220,456	15,370			205,086				
Furniture and Equipment	515,000				515,000				
Technology Equipment-IIT/DPW	51,200				51,200				
Project Management	118,030	58,030	20,000		40,000				
<b>Total Cost:</b>	<b>16,928,709</b>	<b>794,490</b>	<b>256,775</b>		<b>15,877,444</b>				

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Contributions & Donations	125,000	125,000							
Transfer From 23 Fund	4,846,999	335,490	100,000		4,411,509				
General Obligation Bonds	6,956,710	334,000	156,775		6,465,935				
Recordation Tax Bonds	5,000,000				5,000,000				
<b>Total Cost:</b>	<b>16,928,709</b>	<b>794,490</b>	<b>256,775</b>		<b>15,877,444</b>				



# Capital Project Summary

**Capital Project Number: PR2000**

**PS Project ID: C47062**

**Capital Project Title: Parks Systemic**

**Region: Countywide**

**Asset Category: Parks & Recreation**

**Est Completion Date: 7/11/2025**

**Asset Type: Parks & Recreation**

**Year Identified: 2015**

**Capital Project Status: Open**

## Capital Project Description:

This project anticipates future maintenance required for park components that have reached the end of their life cycle, including but not limited to: shelter roof replacements; fencing; repair and paving of parking lots and paths, including sidewalk and curb and replacement of playground surfacing; and security cameras. For FY2017 the focus is to upgrade the electrical lighting service in the floodplain at Pinecliff Park; replace failing shelter roofs at Middletown Park; and replace wood fiber surfacing on select County park playgrounds with either poured-in-place or bounded rubber surfacing to maintain safety and reduce future maintenance costs. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	340,882	43,512	21,537	21,537	31,787	31,787	31,787	31,787	127,148
Architect/Engineering	558,643	54,213	29,943	29,943	55,568	55,568	55,568	55,568	222,272
Construction	6,747,510	832,750	430,756	430,756	631,656	631,656	631,656	631,656	2,526,624
Project Management & Inspections	536,785	82,025	23,076	23,076	38,576	38,576	38,576	38,576	254,304
Project Management	140,000		20,000	20,000	25,000	25,000	25,000	25,000	
<b>Total Cost:</b>	<b>8,323,820</b>	<b>1,012,500</b>	<b>525,312</b>	<b>525,312</b>	<b>782,587</b>	<b>782,587</b>	<b>782,587</b>	<b>782,587</b>	<b>3,130,348</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	3,273,820	462,500	275,312	275,312	282,587	282,587	282,587	282,587	1,130,348
General Obligation Bonds	5,050,000	550,000	250,000	250,000	500,000	500,000	500,000	500,000	2,000,000
<b>Total Cost:</b>	<b>8,323,820</b>	<b>1,012,500</b>	<b>525,312</b>	<b>525,312</b>	<b>782,587</b>	<b>782,587</b>	<b>782,587</b>	<b>782,587</b>	<b>3,130,348</b>



# Capital Project Summary

**Capital Project Number: PR2003**

**PS Project ID: C47059**

**Capital Project Title: Kemptown CP - Rehabilitation**

**Region: Urbana**

**Asset Category: Parks & Recreation**

**Est Completion Date: 3/6/2017**

**Asset Type: Parks & Recreation**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This rehabilitation project is intended to make improvements to park components that have reached the end of their life cycle. Specifically the project may include, where appropriate, the rehabilitation of the following park amenities and facilities: replacement of light poles and fixtures where needed; rehabilitation of amphitheater stage, screen, seating, lighting and fencing; repair and resurfacing of road, lot and walkway pavement; replacing sports field fencing; and replacement of entrance sign, and miscellaneous park service equipment. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	2,358		2,358						
Site Improvement	71,022		71,022						
Architect/Engineering	126,854	126,854							
Construction	960,103		960,103						
IIT Infrastructure	41,000		41,000						
Project Management & Inspections	75,987		75,987						
Furniture and Equipment	52,275		52,275						
Technology Equipment-IIT/DPW	25,625		25,625						
Project Management	30,000		30,000						
<b>Total Cost:</b>	<b>1,385,224</b>	<b>126,854</b>	<b>1,258,370</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	7,854	7,854							
Transfer From 23 Fund	1,089,000	119,000	970,000						
General Obligation Bonds	288,370		288,370						
<b>Total Cost:</b>	<b>1,385,224</b>	<b>126,854</b>	<b>1,258,370</b>						



# Capital Project Summary

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**Capital Project Number: PR2009**

**PS Project ID:**

**Capital Project Title: Ballenger Creek Park Maintenance Area & Widrick House Rehabilitation**

**Region: Frederick**

**Asset Category: Parks & Recreation**

**Est Completion Date: 7/1/2022**

**Asset Type: Parks & Recreation**

**Year Identified: 2017**

**Capital Project Status: Open**

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## Capital Project Description:

Adjacent to Ballenger Creek Park, the George Widrick house was acquired in 2010. The house, which was built circa 1795, is listed in the National Register of Historic Places by the National Park Service. Parks and Recreation staff has researched and explored potential uses of the property, which would include renting the house and surrounding property as an event facility. In addition, this project will look at rehabilitation of the nearby Park Maintenance Building and Yard, to accommodate potential offices for Parks and Recreation operations staff, additional space for equipment and material storage, restroom facilities and event parking. In order to determine the best use of the house and site, a concept study will need to be completed prior to design and construction and to ascertain cost estimates for future CIP requests.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Planning/Study	100,000							100,000	
Project Management	10,000							10,000	
<b>Total Cost:</b>	<b>110,000</b>							<b>110,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	110,000							110,000	
<b>Total Cost:</b>	<b>110,000</b>							<b>110,000</b>	



# Capital Project Summary

**Capital Project Number: PR3001**

**PS Project ID: C47053**

**Capital Project Title: Bikeways/Trails Program**

**Region: Frederick**

**Asset Category: Parks & Recreation**

**Est Completion Date: 10/5/2019**

**Asset Type: Parks & Recreation**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

The initial phase of the Bikeways/Trails Program involves the development of the Ballenger Creek Corridor. Subsequent sites will involve trail development in corridors identified in the Frederick County Bikeways and Trail Plan. In this CIP request, the County would be scheduling alternating design and construction funding years from FY2018 to FY2020. In the future, funding may be needed for trail acquisition or easements. It is anticipated that County construction funds can be matched with 50/50 matching grants from the Federal Transportation Enhancement Grant Program (TEP) for development phases. FY2017: Costs escalated 2.5%. All funding delayed one year.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	433,133	266,837			166,296				
Construction	3,531,331	1,112,203		1,209,564		1,209,564			
Project Management & Inspections	332,579	182,790		65,690	18,409	65,690			
Project Management	82,917	22,917		25,000	10,000	25,000			
<b>Total Cost:</b>	<b>4,379,960</b>	<b>1,584,747</b>		<b>1,300,254</b>	<b>194,705</b>	<b>1,300,254</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Federal, TEA-21	1,696,810	496,810		600,000		600,000			
Transfer From General Fund	103,408	7,280		48,064		48,064			
Transfer From 23 Fund	2,579,742	1,080,657		652,190	194,705	652,190			
<b>Total Cost:</b>	<b>4,379,960</b>	<b>1,584,747</b>		<b>1,300,254</b>	<b>194,705</b>	<b>1,300,254</b>			



# Capital Project Summary

**Capital Project Number: PR3005**

**PS Project ID:**

**Capital Project Title: Bridgeport Monocacy River Access**

**Region: Thurmont**

**Asset Category: Parks & Recreation**

**Est Completion Date: 1/3/2023**

**Asset Type: Parks & Recreation**

**Year Identified: 2017**

**Capital Project Status: Open**

## Capital Project Description:

The Frederick County Division of Parks and Recreation is partnering with the Carroll County Department of Recreation and Parks to develop a public river access in the area of the new Route 140 Bridge over the Monocacy River. Due to the limited vehicular access to this site, a 7-acre parcel was purchased adjacent to the bridge site, using POS Acquisition funding from both Counties. Both County agencies are currently looking into potential grant funding for master planning, design and construction of a river access at this site. Because of this, any required matching County funds will need to be scheduled in the appropriate fiscal year. Funding for developing a Park Master Plan is requested in FY2022. Development of this river access park will include an entrance off of Bridgeport Road, roadway, parking, picnic area, bulletin board, portable restroom enclosure, concrete ramp to river for carry-in boat launch, ADA accessible access for fishing, guardrail, appropriate park signage, and landscaping. In addition to these facilities, Parks and Recreation staff will also investigate the feasibility of adding a picnic shelter, a small playground, as well as a vaulted restroom. Since a majority of the property is in the 100-year flood plain, all improvements to the site will need to be reviewed by the Zoning Administrator prior to any approval of the master plan.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Planning/Study	100,000							100,000	
Project Management	10,000							10,000	
<b>Total Cost:</b>	<b>110,000</b>							<b>110,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	110,000							110,000	
<b>Total Cost:</b>	<b>110,000</b>							<b>110,000</b>	



# Capital Project Summary

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**Capital Project Number: PR3501**

**PS Project ID: C47052**

**Capital Project Title: Park Schools**

**Region:**

**Asset Category: Parks & Recreation**

**Est Completion Date:**

**Asset Type: Parks & Recreation**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

Development funding will provide recreational facilities not normally associated with the regular FCPS program such as a regulation size gym, recreation room, office and storage. Park School facilities generally are placed at elementary schools. Costs for construction are estimated to be \$800,000 for each Park/School site, based upon data provided by FCPS Staff. Expanded recreational facilities are planned for Sugarloaf ES in FY2018.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Appropriations	1,488,000	688,000		800,000					
<b>Total Cost:</b>	<b>1,488,000</b>	<b>688,000</b>		<b>800,000</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
General Obligation Bonds	688,000	688,000							
Recordation Tax Bonds	800,000			800,000					
<b>Total Cost:</b>	<b>1,488,000</b>	<b>688,000</b>		<b>800,000</b>					



# Capital Project Summary

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**Capital Project Number: PR8002**

**PS Project ID:**

**Capital Project Title: South County YMCA, Indoor Pool Partnership**

**Region: Urbana**

**Asset Category: Parks & Recreation**

**Est Completion Date:**

**Asset Type: Parks & Recreation**

**Year Identified: 2016**

**Capital Project Status: Open**

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## Capital Project Description:

This project would provide funding by the County to partner with the Young Men's Christian Association (YMCA) and assist the YMCA in construction of the indoor swimming portion of a proposed YMCA facility, to be located in Urbana. In exchange for capital funding support, County residents who are not YMCA members would have the use of the indoor pool at agreed upon rates and scheduled times. The YMCA would also provide rental pool time to FCPS and community swim teams. The indoor pool portion of the proposed Urbana YMCA would include: eight-lane swimming/competitive pool, warm water teaching indoor family pool with interactive play features, locker rooms, spectator seating and a separate entrance for aquatic patrons. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Appropriations	2,000,000				500,000	500,000	500,000	500,000	
<b>Total Cost:</b>	2,000,000				500,000	500,000	500,000	500,000	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	2,000,000				500,000	500,000	500,000	500,000	
<b>Total Cost:</b>	2,000,000				500,000	500,000	500,000	500,000	

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# WATERSHED RESTORATION

## WATERSHED RESTORATION AND RETROFIT

The Watershed Restoration and Retrofit CIP includes projects that meet requirements of the National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) program, County-owned Industrial Discharge Permits for Stormwater, and County Chesapeake Bay and Local Total Maximum Daily Load (TMDL) requirements. Based on guidelines identified in the Clean Water Act, these programs seek the reduction of pollutants from stormwater. The NPDES MS4 permit, Industrial Stormwater permits, and TMDL programs are administered by the United States Environmental Protection Agency with permitting and enforcement delegated to the Maryland Department of the Environment (MDE). The Office of Sustainability and Environmental Resources of the Community Development Division is responsible for implementing these required programs for Frederick County government. Along with stormwater management retrofit and restoration projects, the program calls for watershed and TMDL plans, public education and outreach, resource mapping, water monitoring systems to detect pollutant discharge and an increased focus on site development, in addition to other requirements. Ultimately, these programs seek to provide long-term protection of our water resources from stormwater impacts.

Projects included in the approved CIP are:

- **Retrofits**
  - Industrial Facility
  - Point of Rocks Pond
- **Restorations**
  - Point of Rocks Stream
  - Little Hunting Creek
- **Reforestation Program**
- **Point of Rocks Bioswales and Bioretention**



Englandtowne stormwater pond retrofit (funded in prior years) – the existing riser structure will be replaced with HDPE pipe and a weir structure which will feed into riprap lined step pools that will slow the flow of water and prevent erosion as it re-enters downstream

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

**WATERSHED RESTORATION & RETROFITS**

<b>PROJECT</b>	<b>6-Year</b>	<b>Total Project</b>	<b>Prior Budget</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Costs After</b>
Watershed Restoration & Retrofit										
Industrial Facility Retrofits	9,110,638	9,392,928	282,290	1,942,202	941,446	3,928,121	2,298,869	0	0	0
Point of Rocks Stream Restoration	2,969,054	4,428,179	1,459,125	0	2,969,054	0	0	0	0	0
Point of Rocks Pond Retrofit	514,925	870,695	355,770	0	0	514,925	0	0	0	0
Little Hunting Creek Stream Restoration Phase 1	1,660,351	1,660,351	0	548,995	1,111,356	0	0	0	0	0
Little Hunting Creek Stream Restoration Phase 2	1,598,593	1,598,593	0	0	0	548,995	1,049,598	0	0	0
Little Hunting Creek Stream Restoration Phase 3	1,598,593	1,598,593	0	0	0	548,995	1,049,598	0	0	0
Reforestation Program	6,132,898	6,132,898	0	1,443,250	382,553	615,299	3,691,796	0	0	0
Point of Rocks Bioswales & Bioretention	559,159	559,159	0	181,701	377,458	0	0	0	0	0
Watershed Systemics	2,000,000	2,000,000	0	0	0	0	0	1,000,000	1,000,000	0
<b>Total: Watershed Restoration &amp; Retrofit</b>	<b>26,144,211</b>	<b>28,241,396</b>	<b>2,097,185</b>	<b>4,116,148</b>	<b>5,781,867</b>	<b>6,156,335</b>	<b>8,089,861</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>
<b>Total Expense</b>	<b>26,144,211</b>	<b>28,241,396</b>	<b>2,097,185</b>	<b>4,116,148</b>	<b>5,781,867</b>	<b>6,156,335</b>	<b>8,089,861</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>

**FUNDING**

General Fund	22,144,211	22,782,271	638,060	4,116,148	3,781,867	6,156,335	6,089,861	1,000,000	1,000,000	0
General Fund Bonds & Capital Lease	4,000,000	5,459,125	1,459,125	0	2,000,000	0	2,000,000	0	0	0
<b>Total Funding Source</b>	<b>26,144,211</b>	<b>28,241,396</b>	<b>2,097,185</b>	<b>4,116,148</b>	<b>5,781,867</b>	<b>6,156,335</b>	<b>8,089,861</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>



# Capital Project Summary

**Capital Project Number: WR1026**

**PS Project ID: C48022**

**Capital Project Title: Industrial Facility Retrofits**

**Region: Countywide**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date: 6/30/2020**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2015**

**Capital Project Status: Open**

## Capital Project Description:

This project provides design and construction funds for recommended retrofits per the Phase A County-owned Industrial Facility Assessment. The objective of these funds is to meet the impervious acre restoration requirement for the Industrial Facility Permit - "General Discharge Permit for Stormwater Associates with Industrial Facilities." FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	130,316	55,000		75,316					
Architect/Engineering	2,370,272	206,290	672,462	819,058		672,462			
Construction	6,824,268		1,269,740		3,928,121	1,626,407			
Project Management & Inspections	48,072	21,000		27,072					
Project Management	20,000			20,000					
<b>Total Cost:</b>	<b>9,392,928</b>	<b>282,290</b>	<b>1,942,202</b>	<b>941,446</b>	<b>3,928,121</b>	<b>2,298,869</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	9,392,928	282,290	1,942,202	941,446	3,928,121	2,298,869			
<b>Total Cost:</b>	<b>9,392,928</b>	<b>282,290</b>	<b>1,942,202</b>	<b>941,446</b>	<b>3,928,121</b>	<b>2,298,869</b>			



# Capital Project Summary

**Capital Project Number: WR1034**

**PS Project ID: C48030**

**Capital Project Title: Point of Rocks Stream Restoration**

**Region: Brunswick**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date:**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

This stream restoration is one outcome from Phase 1 of the Point of Rocks Stormwater Master Plan (WR1023/CR48014). Severe erosion was observed in the streambanks of stream draining into the Potomac River through the center of the Point of Rocks catchment area of Frederick County. This stream runs adjacent to a County-owned trail and park and backs up to several parcels of private property. The objective of this project is to improve the water quality and reduce stormwater runoff in an effort to meet the County's NPDES permit requirements (i.e., impervious acre treatment and TMDL goals) and protect the County's assets. The design cost includes a closed pipe analysis to determine the capacity needs for the storm drain network. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	100,000	100,000							
Site Improvement	200,000	200,000							
Architect/Engineering	1,089,125	1,089,125							
Construction	2,887,054			2,887,054					
Project Management & Inspections	132,000	70,000		62,000					
Project Management	20,000			20,000					
<b>Total Cost:</b>	<b>4,428,179</b>	<b>1,459,125</b>		<b>2,969,054</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	969,054			969,054					
General Obligation Bonds	3,459,125	1,459,125		2,000,000					
<b>Total Cost:</b>	<b>4,428,179</b>	<b>1,459,125</b>		<b>2,969,054</b>					



# Capital Project Summary

**Capital Project Number: WR1035**

**PS Project ID: C48031**

**Capital Project Title: Point of Rocks Pond Retrofit**

**Region: Brunswick**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date:**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

The existing stormwater facility is an in-line stormwater pond within the Point of Rocks stream. The pond was built prior to 2002 and was designed to handle rainfall runoff for shorter storm events and smaller volumes of runoff than present-day ponds. In addition, the pond was not originally designed to serve a water quality function. The objective will be to reconfigure this pond in conjunction with the Point of Rocks Stream Restoration project to maximize pollutant removal and potentially increase runoff detention and flood-control functions. These improvements will be counted towards the impervious acre treatment and pollutant reduction requirements of the NPDES MS4 Permit. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	20,000	20,000							
Site Improvement	38,989	38,989							
Architect/Engineering	271,781	271,781							
Construction	473,925				473,925				
Project Management & Inspections	46,000	25,000			21,000				
Project Management	20,000				20,000				
<b>Total Cost:</b>	<b>870,695</b>	<b>355,770</b>			<b>514,925</b>				

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	870,695	355,770			514,925				
<b>Total Cost:</b>	<b>870,695</b>	<b>355,770</b>			<b>514,925</b>				



# Capital Project Summary

**Capital Project Number: WR1036**

**PS Project ID:**

**Capital Project Title: Little Hunting Creek Stream Restoration Phase 1**

**Region: Thurmont**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date:**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

As part of the FY 2015 CIP (WR1024), Little Hunting Creek subwatershed is evaluated for potential restoration sites. The subwatershed encompasses approximately five miles of stream. It is anticipated that a stream restoration project is needed to improve drainage and restore and protect stream banks and prevent property loss from erosion while improving water quality. The five miles of anticipated stream restoration are broken into smaller, more manageable segments. This project is Phase 1 of the stream restoration or the first segment. The project will serve as restoration credit for the MS4 NPDES permit. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	41,000		41,000						
Site Improvement	82,000		82,000						
Architect/Engineering	374,745		374,745						
Construction	1,039,606			1,039,606					
Project Management & Inspections	78,000		26,250	51,750					
Project Management	45,000		25,000	20,000					
<b>Total Cost:</b>	<b>1,660,351</b>		<b>548,995</b>	<b>1,111,356</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,660,351		548,995	1,111,356					
<b>Total Cost:</b>	<b>1,660,351</b>		<b>548,995</b>	<b>1,111,356</b>					



# Capital Project Summary

**Capital Project Number: WR1037**

**PS Project ID:**

**Capital Project Title: Little Hunting Creek Stream Restoration Phase 2**

**Region: Thurmont**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date:**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

As part of the FY 2015 CIP (WR1024), Little Hunting Creek subwatershed is evaluated for potential restoration sites. The subwatershed encompasses approximately five miles of stream. It is anticipated that a stream restoration project is needed to improve drainage and restore and protect stream banks and prevent property loss from erosion while improving water quality. The five miles of anticipated stream restoration are broken into smaller, more manageable segments. This project is Phase 2 of the stream restoration or the second segment. The project will serve as restoration credit for the MS4 NPDES permit. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	41,000				41,000				
Site Improvement	82,000				82,000				
Architect/Engineering	374,745				374,745				
Construction	977,848					977,848			
Project Management & Inspections	78,000				26,250	51,750			
Project Management	45,000				25,000	20,000			
<b>Total Cost:</b>	<b>1,598,593</b>				<b>548,995</b>	<b>1,049,598</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,598,593				548,995	1,049,598			
<b>Total Cost:</b>	<b>1,598,593</b>				<b>548,995</b>	<b>1,049,598</b>			



# Capital Project Summary

**Capital Project Number: WR1038**

**PS Project ID:**

**Capital Project Title: Little Hunting Creek Stream Restoration Phase 3**

**Region: Thurmont**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date:**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

As part of the FY 2015 CIP, Little Hunting Creek subwatershed is evaluated for potential restoration sites. The subwatershed encompasses approximately five miles of stream. It is anticipated that a stream restoration project is needed to improve drainage and restore and protect stream banks and prevent property loss from erosion while improving water quality. The five miles of anticipated stream restoration are broken into smaller, more manageable segments. This project is Phase 3 of the stream restoration or the third segment. The project will serve as restoration credit for the MS4 NPDES permit. FY2017: Costs escalated 2.5%.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	41,000				41,000				
Site Improvement	82,000				82,000				
Architect/Engineering	374,745				374,745				
Construction	977,848					977,848			
Project Management & Inspections	78,000				26,250	51,750			
Project Management	45,000				25,000	20,000			
<b>Total Cost:</b>	<b>1,598,593</b>				<b>548,995</b>	<b>1,049,598</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,598,593				548,995	1,049,598			
<b>Total Cost:</b>	<b>1,598,593</b>				<b>548,995</b>	<b>1,049,598</b>			



# Capital Project Summary

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**Capital Project Number: WR1039**

**PS Project ID:**

**Capital Project Title: Reforestation Program**

**Region: Countywide**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date:**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2016**

**Capital Project Status: Open**

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## Capital Project Description:

This program will be managed by the Office of Sustainability and Environmental Resource's on-staff licensed forester.  
 FY2017: Costs escalated 2.5%

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Construction	6,132,898		1,443,250	382,553	615,299	3,691,796			
<b>Total Cost:</b>	6,132,898		1,443,250	382,553	615,299	3,691,796			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	4,132,898		1,443,250	382,553	615,299	1,691,796			
General Obligation Bonds	2,000,000					2,000,000			
<b>Total Cost:</b>	6,132,898		1,443,250	382,553	615,299	3,691,796			



# Capital Project Summary

**Capital Project Number: WR1040**

**PS Project ID:**

**Capital Project Title: Point of Rocks Bioswales & Bioretention**

**Region: Brunswick**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date:**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

16 bioretention/bioswale projects are an outcome of Phase 1 of the Point of Rocks Stormwater Master Plan (POR SWMP - C48014). Bioswales and bioretention are practices used in an attempt to mimic pre-development hydrology by treating and infiltrating runoff at the source. All 16 projects are located on County-owned property or within the County's road right-of-way. The objective is to improve water quality and reduce stormwater runoff to meet the County's NPDES permit requirements (i.e., impervious acre treatment and TMDL goals) and protect the County's assets. FY2017: Project costs escalated 2.5%.

### Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	5,125		5,125						
Site Improvement	27,675		27,675						
Architect/Engineering	103,801		103,801						
Construction	346,002			346,002					
Project Management & Inspections	46,556		25,100	21,456					
Project Management	30,000		20,000	10,000					
<b>Total Cost:</b>	<b>559,159</b>		<b>181,701</b>	<b>377,458</b>					

### Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	559,159		181,701	377,458					
<b>Total Cost:</b>	<b>559,159</b>		<b>181,701</b>	<b>377,458</b>					



# Capital Project Summary

**Capital Project Number: WR1099**

**PS Project ID:**

**Capital Project Title: Watershed Systemics**

**Region:**

**Asset Category: Watershed Restoration & Retrofit**

**Est Completion Date:**

**Asset Type: Watershed Restoration & Retrofit**

**Year Identified: 2017**

**Capital Project Status: Open**

## Capital Project Description:

This project serves as a place holder for projects pertaining to the on-going permit requirements. Two types of project identified are stormwater pond retrofits and stream restorations. Stormwater Pond Retrofits are structural stormwater management measures for urban watersheds. They help to minimize accelerated channel erosion, reduce pollutant loads, promote conditions for improved aquatic habitat, and correct past mistakes. Stream restoration re-establishes the general structure, function, and self-sustaining behavior of the stream system that existed prior to disturbance. A broad range of measures are incorporated in these projects: removing watershed disturbances that cause stream instability; installing structures and planting vegetation to protect stream banks and provide habitat; reshaping or replacing unstable stream reaches with appropriately designed functional streams and associated floodplains.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Construction	2,000,000						1,000,000	1,000,000	
<b>Total Cost:</b>	2,000,000						1,000,000	1,000,000	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	2,000,000						1,000,000	1,000,000	
<b>Total Cost:</b>	2,000,000						1,000,000	1,000,000	

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ROADS

## ROADS

- **Boyers Mill Road** – Project will provide a new two-lane road from Gas House Pike to Old National Pike. Several phases are anticipated with funding for construction scheduled in FY17 and FY19.
- **Old National Pike** – Phase 1 will upgrade Old National Pike from MD 144 to New Market. Phase 2 will upgrade Old National Pike from MD 75 to Mt. Airy to serve future traffic growth in the New Market Region. Funding has been delayed until the comprehensive corridor study for Old National Pike is completed
- **Reich’s Ford Road and Yeagertown Road** – Although identified as a project, funding is beyond the 6 year program.



A portion of the Boyers Mill Road project will address shoulder issues

- **Reels Mill Road** – Phase 2 will improve Reels Mill Road from MD 355 to Ball Road to meet Local Road standards. The total project length is approximately 1.0 mile. Funding for planning is scheduled in FY19.
- **Gas House Pike (from the City limits to Boyers Mill Road)** – This project will upgrade Gas House Pike from the Frederick City Limit to Boyers Mill Road to serve future traffic growth in the New Market Region. Funding for construction is scheduled for FY20.

- **Christopher’s Crossing Widening** – will include improvements to Christopher's Crossing from Whittier Drive (City Limit) to the Walter Martz Road/Jordan Valley Way intersection. Funding for design is in FY2021.



A portion of the Gas House Pike project will address slope stabilization and shoulder improvements

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

**ROADS**

<b>PROJECT</b>	<b>6-Year</b>	<b>Total Project</b>	<b>Prior Budget</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Costs After</b>
<b>Roads</b>										
Boyers Mill Road	13,700,840	22,353,390	8,652,550	1,790,748	891,492	11,018,600	0	0	0	0
W. Frederick Intersections Imp	(645,000)	291,000	936,000	(645,000)	0	0	0	0	0	0
Old Natl Pike-MD144 to NewMrk	0	6,634,600	390,000	0	0	0	0	0	0	6,244,600
OldNational Pike Phase 2 (from MD 75 to Mt. Airy)	0	12,026,900	0	0	0	0	0	0	0	12,026,900
<b>Reichs Ford Road - Ph 2</b>	<b>0</b>	<b>9,702,700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,702,700</b>
Yeagertown Road	0	7,962,600	0	0	0	0	0	0	0	7,962,600
Reels Mill Road - Ph 2	1,405,600	3,952,300	0	0	212,300	0	269,000	924,300	924,300	2,546,700
Gas House Pike (from the City Limits to Boyers Mill Road)	10,283,600	11,143,600	860,000	896,200	0	2,193,200	7,194,200	0	0	0
Christopher's Crossing Widening	851,000	5,894,000	0	0	0	0	0	851,000	0	5,043,000
<b>Total: Roads</b>	<b>25,596,040</b>	<b>79,961,090</b>	<b>10,838,550</b>	<b>2,041,948</b>	<b>891,492</b>	<b>13,424,100</b>	<b>7,194,200</b>	<b>1,120,000</b>	<b>924,300</b>	<b>43,526,500</b>
<b>Total Expense</b>	<b>25,596,040</b>	<b>79,961,090</b>	<b>10,838,550</b>	<b>2,041,948</b>	<b>891,492</b>	<b>13,424,100</b>	<b>7,194,200</b>	<b>1,120,000</b>	<b>924,300</b>	<b>43,526,500</b>
<b>FUNDING</b>										
General Fund	1,033,900	36,673,843	647,343	92,200	0	310,900	175,500	31,000	424,300	34,992,600
General Fund Bonds & Capital Lease	24,562,140	40,021,263	9,214,523	1,949,748	891,492	13,113,200	7,018,700	1,089,000	500,000	6,244,600
Excise Tax	0	949,962	949,962	0	0	0	0	0	0	0
Grants	0	2,289,300	0	0	0	0	0	0	0	2,289,300
Other	0	26,722	26,722	0	0	0	0	0	0	0
<b>Total Funding Source</b>	<b>25,596,040</b>	<b>79,961,090</b>	<b>10,838,550</b>	<b>2,041,948</b>	<b>891,492</b>	<b>13,424,100</b>	<b>7,194,200</b>	<b>1,120,000</b>	<b>924,300</b>	<b>43,526,500</b>



# Capital Project Summary

**Capital Project Number: RD1052**

**PS Project ID: C28412**

**Capital Project Title: Boyers Mill Road**

**Region: New Market**

**Asset Category: Roads**

**Est Completion Date: 7/1/2020**

**Asset Type: Roads**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project will provide a new two-lane road with shoulders along Boyers Mill Road from Gas House Pike to Old National Pike. Based on BoCC decision on March 14, 2006, the bridge portion of the corridor was broken out into a separate budget and is currently under construction (scheduled to be completed in Spring 2017). The upgrading is needed to meet increasing traffic demands in the area and commuter traffic from MD 26 through Mckaig Road. On September 21, 2010, the BoCC approved to reduce the project scope. The new scope will target a number of key improvements throughout the 4 mile corridor that focus on safety, maintenance concerns, and preservation of the existing corridor. The 2015 ADT for this road ranges from 5,266 vehicles per day (northern end) to 7,933 vehicles per day (southern end). Construction is expected to begin on the north section (Gas house Pike to bridge over Lake Linganore) in FY 16. Construction is expected to begin on the south section (bridge over Lake Linganore to Old National Pike) in FY18.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	1,236,090	2,055,566	-1,612,560	793,084					
Site Improvement	1,937,300	765,700	-5,400	5,400	1,171,600				
Architect/Engineering	2,890,300	1,772,500	959,000	30,000	128,800				
Planning/Study	0	204,984	-204,984						
Construction	15,796,700	3,459,400	2,818,739	-39	9,518,600				
Project Management & Inspections	158,200	179,400	-136,812	12	115,600				
Project Management	334,800	215,000	-27,235	63,035	84,000				
<b>Total Cost:</b>	<b>22,353,390</b>	<b>8,652,550</b>	<b>1,790,748</b>	<b>891,492</b>	<b>11,018,600</b>				

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	403,943	135,343			268,600				
Transfer from 24 fund	797,962	797,962							
General Obligation Bonds	21,124,763	7,692,523	1,790,748	891,492	10,750,000				
Developer Contributions	26,722	26,722							
<b>Total Cost:</b>	<b>22,353,390</b>	<b>8,652,550</b>	<b>1,790,748</b>	<b>891,492</b>	<b>11,018,600</b>				



# Capital Project Summary

**Capital Project Number: RD1054**

**PS Project ID: C28451**

**Capital Project Title: W. Frederick Intersections Imp**

**Region: Frederick**

**Asset Category: Roads**

**Est Completion Date: 7/1/2015**

**Asset Type: Roads**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

On August 4, 2009, the BoCC approved to reduce the scope of the Christophers Crossing Widening project and close the Yellow Springs Road Improvements project. This new project replaces both of these projects, and will use as a guide the recommendations included in the "Christophers Crossing/Yellow Springs Road Corridor Traffic Study" dated February 2009. The three intersections for improvements are Christophers Crossing at Yellow Springs Road, Yellow Springs Road at Clover Hill Drive/Tuscarora Drive (completed), and Shookstown Road at Bowers Road/Kemp Lane.

\*\*The improvements were designed in-house and completed under an existing contract at a lower cost. The remaining funds are being removed to fund other projects.\*\*

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	0	56,000	-56,000						
Site Improvement	0	69,000	-69,000						
Architect/Engineering	74,258	126,000	-51,742						
Construction	141,289	600,000	-458,711						
Project Management & Inspections	49,000	49,000							
Project Management	26,453	36,000	-9,547						
<b>Total Cost:</b>	<b>291,000</b>	<b>936,000</b>	<b>-645,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	22,000	22,000							
Transfer from 24 fund	152,000	152,000							
General Obligation Bonds	117,000	762,000	-645,000						
<b>Total Cost:</b>	<b>291,000</b>	<b>936,000</b>	<b>-645,000</b>						



# Capital Project Summary

**Capital Project Number: RD1055**

**PS Project ID: C28326**

**Capital Project Title: Old Natl Pike-MD144 to NewMrk**

**Region: New Market**

**Asset Category: Roads**

**Est Completion Date: 9/29/2028**

**Asset Type: Roads**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project will upgrade Old National Pike from MD 144 to New Market to serve future traffic growth in the New Market Region. Old National Pike will be designed and constructed to minor arterial standards for a distance of about 2.2 miles. Some of the proposed improvements may include vertical alignment, road widening, shoulder construction, and intersection improvements. This road is designated as an on-street bikeway. The 2012 ADT west of Boyers Mill Road is 8,000 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	665,000								665,000
Site Improvement	288,900								288,900
Architect/Engineering	477,800								477,800
Planning/Study	185,000	185,000							
Construction	4,491,400								4,491,400
Project Management & Inspections	490,500	169,000							321,500
Project Management	36,000	36,000							
<b>Total Cost:</b>	<b>6,634,600</b>	<b>390,000</b>							<b>6,244,600</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	390,000	390,000							
General Obligation Bonds	6,244,600								6,244,600
<b>Total Cost:</b>	<b>6,634,600</b>	<b>390,000</b>							<b>6,244,600</b>



# Capital Project Summary

**Capital Project Number: RD1056**

**PS Project ID:**

**Capital Project Title: OldNational Pike Phase 2 (from MD 75 to Mt. Airy)**

**Region: New Market**

**Asset Category: Roads**

**Est Completion Date: 6/28/2030**

**Asset Type: Roads**

**Year Identified: 2018**

**Capital Project Status: Open**

## Capital Project Description:

This project will upgrade Old National Pike from MD 75 to Mt. Airy to serve future traffic growth in the New Market Region. Old National Pike will be designed and constructed to minor arterial standards for a distance of about 4.6 miles. Some of the proposed improvements may include horizontal and vertical alignment adjustments, road widening, shoulder construction, and intersection improvements. This road is designated as an on-street bikeway. The 2012 ADT west of Sidney Road is 7,300 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	1,202,000								1,202,000
Site Improvement	2,283,100								2,283,100
Architect/Engineering	679,800								679,800
Planning/Study	292,100								292,100
Construction	6,944,700								6,944,700
Project Management & Inspections	347,800								347,800
Project Management	277,400								277,400
<b>Total Cost:</b>	<b>12,026,900</b>								<b>12,026,900</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	12,026,900								12,026,900
<b>Total Cost:</b>	<b>12,026,900</b>								<b>12,026,900</b>



# Capital Project Summary

**Capital Project Number: RD1061**

**PS Project ID:**

**Capital Project Title: Reichs Ford Road - Ph 2**

**Region: New Market, Urbana**

**Asset Category: Roads**

**Est Completion Date: 10/2/2028**

**Asset Type: Roads**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project will primarily focus on the upgrade/replacement of two bridges over Bush Creek. The bridges are prone to vehicular damages due to their narrow width and substandard approach alignments. The existing two lane road from Bartonville Road to Ijamsville Road for a distance of 1.6 miles, including the at-grade railroad crossing, will be evaluated during the planning phase to meet the County standards for a collector or modified collector road per the current comprehensive plan. The planning phase will investigate existing deficiencies in horizontal and vertical alignments, storm drainage systems and possible stream bank stabilization due to the close proximity of the road with Bush Creek. This project will complete the regional corridor upgrade between the Reichs Ford Road phase I project and the Ijamsville Road Phase I project. The 2015 ADT is 601 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	1,320,000								1,320,000
Site Improvement	117,700								117,700
Architect/Engineering	638,800								638,800
Planning/Study	317,300								317,300
Construction	6,658,400								6,658,400
Project Management & Inspections	391,900								391,900
Project Management	258,600								258,600
<b>Total Cost:</b>	<b>9,702,700</b>								<b>9,702,700</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Federal Grants - Pass Thru	2,289,300								2,289,300
Transfer From General Fund	7,413,400								7,413,400
<b>Total Cost:</b>	<b>9,702,700</b>								<b>9,702,700</b>



# Capital Project Summary

**Capital Project Number: RD1064**

**Capital Project Title: Yeagertown Road**

**Asset Category: Roads**

**Asset Type: Roads**

**Capital Project Status: Open**

**PS Project ID:**

**Region: New Market**

**Est Completion Date: 9/27/2030**

**Year Identified: 2010**

## Capital Project Description:

This roadway serves as a link from Boyers Mill Road to either the proposed I-70/Meadow Road Interchange or Ijamsville Road and then to I-270. The project will upgrade the existing tar and chip road to a modified minor arterial from Boyers Mill Road for approximately 0.7 miles. The remaining 1.1 miles to Old National Pike will be upgraded to a local road status. The project will upgrade the existing tar and chip surface and serve future traffic growth. The 2012 ADT is 1,500 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	1,645,000								1,645,000
Site Improvement	292,100								292,100
Architect/Engineering	463,600								463,600
Planning/Study	197,500								197,500
Construction	4,895,500								4,895,500
Project Management & Inspections	285,400								285,400
Project Management	183,500								183,500
<b>Total Cost:</b>	<b>7,962,600</b>								<b>7,962,600</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	7,962,600								7,962,600
<b>Total Cost:</b>	<b>7,962,600</b>								<b>7,962,600</b>



# Capital Project Summary

**Capital Project Number: RD1065**

**PS Project ID:**

**Capital Project Title: Reels Mill Road - Ph 2**

**Region: Urbana**

**Asset Category: Roads**

**Est Completion Date: 10/31/2024**

**Asset Type: Roads**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This roadway is a primary route between Reichs Ford Road and I-270. The project will improve Reels Mill Road from MD 355 to Ball Road to meet local road standards. The total project length is approximately 1.0 mile. The 2015 ADT is 556 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	669,000							669,000	
Site Improvement	255,300							255,300	
Architect/Engineering	269,000						269,000		
Planning/Study	115,600				115,600				
Construction	2,402,800								2,402,800
Project Management & Inspections	143,900								143,900
Project Management	96,700				96,700				
<b>Total Cost:</b>	<b>3,952,300</b>				<b>212,300</b>		<b>269,000</b>	<b>924,300</b>	<b>2,546,700</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	3,044,300				42,300		31,000	424,300	2,546,700
General Obligation Bonds	908,000				170,000		238,000	500,000	
<b>Total Cost:</b>	<b>3,952,300</b>				<b>212,300</b>		<b>269,000</b>	<b>924,300</b>	<b>2,546,700</b>



# Capital Project Summary

**Capital Project Number: RD1067**

**PS Project ID: C28391**

**Capital Project Title: Gas House Pike (from the City Limits to Boyers Mill Road)**

**Region: New Market**

**Asset Category: Roads**

**Est Completion Date: 10/1/2022**

**Asset Type: Roads**

**Year Identified: 2013**

**Capital Project Status: Open**

## Capital Project Description:

This project will upgrade Gas House Pike from the Frederick City Limit to Boyers Mill Road to serve future traffic growth in the New Market Region. Gas House Pike will be designed and constructed to minor arterial standards, modified to provide 5-foot paved and 4-foot grass shoulders for a distance of about 2.7 miles. Other proposed improvements may include horizontal and vertical alignments, road widening, shoulder construction, and intersection improvements. Funds were added in FY 16 for slope stabilization repairs to the 9200-9400 block of Gas House Pike to address an existing slope failure issue. The slope repairs are scheduled to begin in FY 16. The remainder of the road project is scheduled for construction in FY 2020. The 2015 ADT ranges from 5,343 vehicles per day (west of Boyers Mill Road) to 6,895 vehicles per day (west of Linganore Road).

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	1,547,000		135,000		1,412,000				
Site Improvement	781,200				781,200				
Architect/Engineering	694,200		694,200						
Planning/Study	268,000	268,000							
Construction	7,213,900	400,000	67,000			6,746,900			
Project Management & Inspections	639,300	192,000				447,300			
<b>Total Cost:</b>	<b>11,143,600</b>	<b>860,000</b>	<b>896,200</b>		<b>2,193,200</b>	<b>7,194,200</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	367,700	100,000	92,200			175,500			
General Obligation Bonds	10,775,900	760,000	804,000		2,193,200	7,018,700			
<b>Total Cost:</b>	<b>11,143,600</b>	<b>860,000</b>	<b>896,200</b>		<b>2,193,200</b>	<b>7,194,200</b>			



# Capital Project Summary

**Capital Project Number: RD1068**

**Capital Project Title: Christopher's Crossing Widening**

**Asset Category: Roads**

**Asset Type: Roads**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Frederick**

**Est Completion Date: 7/1/2026**

**Year Identified: 2016**

## Capital Project Description:

This project will include improvements to Christopher's Crossing from Whittier Drive (City Limit) to the Walter Martz Road/Jordan Valley Way intersection to upgrade from a two-lane median divided roadway to a four-lane median divided roadway. Upgrade of this roadway is necessary to provide a roadway typical section consistent with the adjoining Frederick City maintained segments of Christophers Crossing. This upgrade is also necessary to accommodate the increased traffic anticipated with completion of the US 15/Monocacy Boulevard interchange by SHA and completion of missing segment between the Walter Martz/Poole Jones and Opposomtown Pike intersections by Frederick City. Intersection improvements at the Christophers Crossing/ Yellow Springs intersection are excluded from this projects and will be completed by others. This road is designated as an on-street bikeway. The 2015 ADT on this roadway is 4,618 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	250,000								250,000
Site Improvement	60,000								60,000
Architect/Engineering	672,000						672,000		
Construction	4,465,000								4,465,000
Project Management & Inspections	268,000								268,000
Project Management	179,000						179,000		
<b>Total Cost:</b>	<b>5,894,000</b>						<b>851,000</b>		<b>5,043,000</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	5,043,000								5,043,000
General Obligation Bonds	851,000						851,000		
<b>Total Cost:</b>	<b>5,894,000</b>						<b>851,000</b>		<b>5,043,000</b>

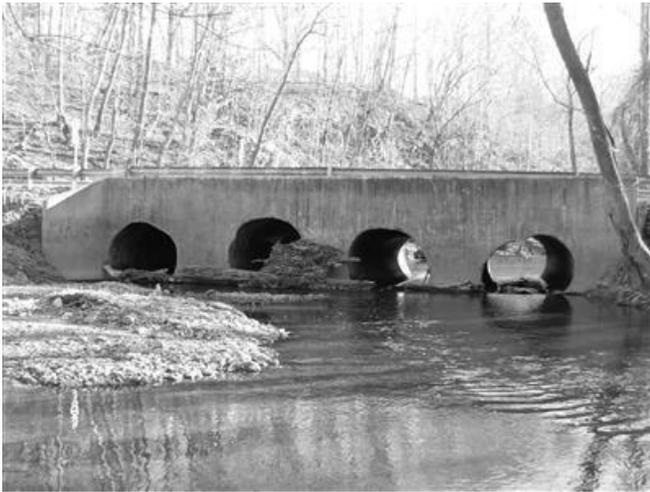
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# BRIDGES

# BRIDGES

Six bridge/culvert projects are scheduled for construction funding in the FY17-FY22 CIP.

FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
Gas House Pike Bridge			Dixon Rd Bridge	Hessong Bridge Rd Bridge	Brethren Church Rd Bridge
			Hoovers Mill Road Bridge	Hornets Nest Road Bridge	



This is the larger multi-cell pipe structure (bridge) that will be replaced as part of the Gas House Pike Bridge project



Hoover Mill Rd Bridge – will rehab the existing pony truss bridge structure and repainting

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED  
BRIDGES**

<b>PROJECT</b>	<b>6-Year</b>	<b>Total Project</b>	<b>Prior Budget</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Costs After</b>
Bridges										
Gas House Pike Bridge	3,120,600	3,775,200	654,600	3,120,600	0	0	0	0	0	0
Brethren Church Rd Br	1,077,100	1,077,100	0	0	0	0	183,900	91,600	801,600	0
Hessong Bridge Road Bridge	1,887,300	1,887,300	0	154,500	0	204,900	154,700	1,373,200	0	0
Dixon Road Bridge (No. 07-09)	797,700	797,700	0	0	145,000	26,600	626,100	0	0	0
Hoovers Mill Road Bridge (No. 15-11)	1,206,400	1,206,400	0	0	220,700	32,800	952,900	0	0	0
Hornets Nest Road Bridge (No. 05-22)	1,099,000	1,099,000	0	0	0	206,900	23,200	868,900	0	0
Deck Replacements on Old Frederick Road (No. 20-02) and Thurston Road (No. 07-02)	418,000	1,634,000	1,216,000	418,000	0	0	0	0	0	0
Replacement of Old Mill Road Bridge No. F04-09	250,000	1,360,600	0	0	0	0	0	0	250,000	1,110,600
<b>Total: Bridges</b>	<b>9,856,100</b>	<b>12,837,300</b>	<b>1,870,600</b>	<b>3,693,100</b>	<b>365,700</b>	<b>471,200</b>	<b>1,940,800</b>	<b>2,333,700</b>	<b>1,051,600</b>	<b>1,110,600</b>
<b>Total Expense</b>	<b>9,856,100</b>	<b>12,837,300</b>	<b>1,870,600</b>	<b>3,693,100</b>	<b>365,700</b>	<b>471,200</b>	<b>1,940,800</b>	<b>2,333,700</b>	<b>1,051,600</b>	<b>1,110,600</b>
<b>FUNDING</b>										
General Fund	599,900	6,773,300	231,200	0	0	122,300	143,100	84,500	250,000	1,110,600
General Fund Bonds & Capital Lease	4,816,400	0	901,600	1,172,400	365,700	189,000	1,797,700	490,000	801,600	0
Grants	4,439,800	1,086,500	737,800	2,520,700	0	159,900	0	1,759,200	0	0
<b>Total Funding Source</b>	<b>9,856,100</b>	<b>7,859,800</b>	<b>1,870,600</b>	<b>3,693,100</b>	<b>365,700</b>	<b>471,200</b>	<b>1,940,800</b>	<b>2,333,700</b>	<b>1,051,600</b>	<b>1,110,600</b>



# Capital Project Summary

**Capital Project Number: BR1029**

**PS Project ID: C27707**

**Capital Project Title: Gas House Pike Bridge**

**Region: New Market**

**Asset Category: Bridges**

**Est Completion Date: 6/30/2018**

**Asset Type: Bridges**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project includes the construction of two separate two-lane bridges (75 and 50 foot spans) carrying Gas House Pike over Linganore Creek. The proposed bridges replace an existing bridge (larger multi-cell pipe structure) and a small structure (small multi-cell pipe structure) that are prone to flooding. The roadway profile will also be raised significantly to assist in reducing the flooding frequency at this location. The roadway approaches within the project limits will be designed to meet Collector standards. This road is designated as an on-street bikeway. The 2015 ADT at the bridge is 1,417 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	145,000	145,000							
Site Improvement	64,600	64,600							
Architect/Engineering	440,000	340,000	100,000						
Construction	2,849,800		2,849,800						
Project Management & Inspections	275,800	105,000	170,800						
Project Management	0								
<b>Total Cost:</b>	<b>3,775,200</b>	<b>654,600</b>	<b>3,120,600</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Federal Grants - Pass Thru	2,382,300		2,382,300						
Transfer From General Fund	200,000	200,000							
General Obligation Bonds	1,192,900	454,600	738,300						
<b>Total Cost:</b>	<b>3,775,200</b>	<b>654,600</b>	<b>3,120,600</b>						



# Capital Project Summary

**Capital Project Number: BR1032**

**Capital Project Title: Brethren Church Rd Br**

**Asset Category: Bridges**

**Asset Type: Bridges**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Middletown**

**Est Completion Date: 7/3/2024**

**Year Identified: 2015**

## Capital Project Description:

This project will replace an existing multi-cell pipe structure over Catoctin Creek. The hydraulic opening is inadequate and traps debris, causing water to overtop the road. The 2015 ADT at the bridge is 593 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	60,000						60,000		
Site Improvement	31,600						31,600		
Architect/Engineering	147,100					147,100			
Construction	735,400							735,400	
Project Management & Inspections	66,200							66,200	
Project Management	36,800					36,800			
<b>Total Cost:</b>	<b>1,077,100</b>					<b>183,900</b>	<b>91,600</b>	<b>801,600</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	105,300					58,900	46,400		
General Obligation Bonds	971,800					125,000	45,200	801,600	
<b>Total Cost:</b>	<b>1,077,100</b>					<b>183,900</b>	<b>91,600</b>	<b>801,600</b>	



# Capital Project Summary

**Capital Project Number: BR1033**

**Capital Project Title: Hessong Bridge Road Bridge**

**Asset Category: Bridges**

**Asset Type: Bridges**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Thurmont**

**Est Completion Date: 7/1/2022**

**Year Identified: 2010**

## Capital Project Description:

This project will provide a new two-lane bridge to carry Hessong Bridge Road over Little Hunting Creek. It will also improve the roadway approaches to meet collector standards. The existing Acrow panel bridge only provides for one lane of traffic. This road is designated as a on-street bikeway. The 2015 ADT at the bridge is 591 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	120,000					120,000			
Site Improvement	34,700					34,700			
Architect/Engineering	204,900				204,900				
Planning/Study	88,300		88,300						
Construction	1,272,300						1,272,300		
Project Management & Inspections	100,900						100,900		
Project Management	66,200		66,200						
<b>Total Cost:</b>	<b>1,887,300</b>		<b>154,500</b>		<b>204,900</b>	<b>154,700</b>	<b>1,373,200</b>		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Federal Grants - Pass Thru	1,238,300				159,900		1,078,400		
Transfer From General Fund	45,000				45,000				
General Obligation Bonds	604,000		154,500			154,700	294,800		
<b>Total Cost:</b>	<b>1,887,300</b>		<b>154,500</b>		<b>204,900</b>	<b>154,700</b>	<b>1,373,200</b>		



# Capital Project Summary

**Capital Project Number: BR1035**

**Capital Project Title: Dixon Road Bridge (No. 07-09)**

**Asset Category: Bridges**

**Asset Type: Bridges**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Urbana**

**Est Completion Date: 11/30/2020**

**Year Identified: 2013**

## Capital Project Description:

This project involves the rehabilitation of the existing pony truss bridge on Dixon Road over Bennett Creek. The existing bridge has a span length of 44 feet and a posted weight limit of 30,000lbs. The project will provide for the rehabilitation of the substructure and superstructure including complete cleaning and painting of the structural steel, replacement of the timber plank deck with a glue-laminated deck and upgrade of the traffic railings on the bridge and approaches. The 2015 ADT at the bridge is 151 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	16,000				16,000				
Site Improvement	10,600				10,600				
Architect/Engineering	115,600			115,600					
Construction	579,900					579,900			
Project Management & Inspections	46,200					46,200			
Project Management	29,400			29,400					
<b>Total Cost:</b>	<b>797,700</b>			<b>145,000</b>	<b>26,600</b>	<b>626,100</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	56,700				26,600	30,100			
General Obligation Bonds	741,000			145,000		596,000			
<b>Total Cost:</b>	<b>797,700</b>			<b>145,000</b>	<b>26,600</b>	<b>626,100</b>			



# Capital Project Summary

**Capital Project Number: BR1036**

**PS Project ID:**

**Capital Project Title: Hoovers Mill Road Bridge (No. 15-11)**

**Region: Thurmont**

**Asset Category: Bridges**

**Est Completion Date: 11/21/2020**

**Asset Type: Bridges**

**Year Identified: 2014**

**Capital Project Status: Open**

## Capital Project Description:

This project involves the rehabilitation of the existing pony truss bridge on Hoovers Mill Road over Owens Creek. The existing bridge has a span length of 67 feet and a posted weight limit of 26,000 lbs. The project will provide for the rehabilitation of the substructure and superstructure including complete cleaning and painting of the structural steel, and upgrade of the traffic railings on the bridge and approaches. If possible, the project will include improvements to increase the posted weight limit. The 2015 ADT at the bridge is 41 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	17,000				17,000				
Site Improvement	15,800				15,800				
Architect/Engineering	175,500			175,500					
Construction	882,500					882,500			
Project Management & Inspections	70,400					70,400			
Project Management	45,200			45,200					
<b>Total Cost:</b>	<b>1,206,400</b>			<b>220,700</b>	<b>32,800</b>	<b>952,900</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	63,700				32,800	30,900			
General Obligation Bonds	1,142,700			220,700		922,000			
<b>Total Cost:</b>	<b>1,206,400</b>			<b>220,700</b>	<b>32,800</b>	<b>952,900</b>			



# Capital Project Summary

**Capital Project Number: BR1037**

**Capital Project Title: Hornets Nest Road Bridge (No. 05-22)**

**Asset Category: Bridges**

**Asset Type: Bridges**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Thurmont**

**Est Completion Date: 11/19/2021**

**Year Identified: 2014**

## Capital Project Description:

This project will replace an existing multi-cell pipe structure that is in very poor condition. The hydraulic opening is inadequate and traps debris, causing water to overtop the road. The 2015 ADT at the bridge is 97 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	18,000					18,000			
Site Improvement	5,200					5,200			
Architect/Engineering	159,700				159,700				
Construction	797,500						797,500		
Project Management & Inspections	71,400						71,400		
Project Management	47,200				47,200				
<b>Total Cost:</b>	<b>1,099,000</b>				<b>206,900</b>	<b>23,200</b>	<b>868,900</b>		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Federal Grants - Pass Thru	680,800						680,800		
Transfer From General Fund	79,200				17,900	23,200	38,100		
General Obligation Bonds	339,000				189,000		150,000		
<b>Total Cost:</b>	<b>1,099,000</b>				<b>206,900</b>	<b>23,200</b>	<b>868,900</b>		



# Capital Project Summary

**Capital Project Number: BR1050**

**PS Project ID: C27711**

**Capital Project Title: Deck Replacements on Old Frederick Road (No. 20-02) and Thurston Road (No. 07-02)**

**Region: Countywide**

**Asset Category: Bridges**

**Est Completion Date: 11/22/2016**

**Asset Type: Bridges**

**Year Identified: 2014**

**Capital Project Status: Funded**

## Capital Project Description:

This project will replace deteriorating concrete bridge decks on Old Frederick Road over Fishing Creek and Thurston Road over Bennett Creek. In addition to replacing the concrete decks, the bridge parapets and approach guardrail will be brought up to current standards. If possible, improvements to the superstructure on the Thurston Road bridge will be performed to increase the posted weight limit. The 2015 ADT at the Old Frederick Road Bridge is 2,128 vehicles per day. The 2015 ADT at Thurston Road Bridge is 594 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	180,000		180,000						
Site Improvement	20,000	20,000							
Architect/Engineering	292,000	227,000	65,000						
Construction	1,033,000	860,000	173,000						
Project Management & Inspections	109,000	109,000							
<b>Total Cost:</b>	<b>1,634,000</b>	<b>1,216,000</b>	<b>418,000</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Federal Grants - Pass Thru	876,200	737,800	138,400						
Transfer From General Fund	31,200	31,200							
General Obligation Bonds	726,600	447,000	279,600						
<b>Total Cost:</b>	<b>1,634,000</b>	<b>1,216,000</b>	<b>418,000</b>						



# Capital Project Summary

**Capital Project Number: BR1051**

**PS Project ID:**

**Capital Project Title: Replacement of Old Mill Road Bridge  
No. F04-09**

**Region: Thurmont**

**Asset Category: Bridges**

**Est Completion Date: 11/1/2025**

**Asset Type: Bridges**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

This project will replace an existing three-span, 40' long, timber bridge over the Maryland Midland Railroad. The project will remove the two timber pier bents from the railroad right-of-way and replace the deteriorating concrete abutments. The 2015 ADT at the bridge is 63 vehicles per day.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	80,000								80,000
Architect/Engineering	200,000							200,000	
Construction	950,000								950,000
Project Management & Inspections	80,600								80,600
Project Management	50,000							50,000	
<b>Total Cost:</b>	<b>1,360,600</b>							<b>250,000</b>	<b>1,110,600</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,360,600							250,000	1,110,600
<b>Total Cost:</b>	<b>1,360,600</b>							<b>250,000</b>	<b>1,110,600</b>

# HIGHWAYS

## HIGHWAYS

Like most County departments, the Highway Department has seen a dramatic increase in level of need for its services over the past decade. Most of the increases are due to a significant amount of growth in a relatively short period of time. The increased growth has caused an acceleration of the wear and breakdown of these roads. With normal use, a paved surface should last between 10-20 years. Currently, the County is responsible for the maintenance of more than 1,273 centerline miles of roads.

The following projects are scheduled for FY17 – FY22.

- **Pavement Management Program** - This program funds Roadway Surface Management System, Surface Coat, Patching, Overlay, Cold-in-Place Recycling, and Full-Depth Reclamation. This project is scheduled for funding throughout the six-year CIP ranging from \$8.6 – 16.8 million per year for a total of \$82.2 million.
- **Highway Network Systemic – General**  
Consists of the road stabilization, pipe culvert replacement, and the safety/spot improvements programs
- **Sidewalk Retrofit Program** – A multi-year project to upgrade existing county owned pedestrian facilities to comply with current ADA standards
- **Signalization** – This program provides funds for signal needs or roundabouts at intersections. On-going funding for the six years of the CIP is \$1.9 million.
- **Roads Satellite Facilities #3** – Multi-year project that will update several road satellite facilities
- **Urbana Satellite Yard** – Includes oil/grit separator, trailer haul-off, concrete and paving repairs, and installation of conveyor.



Tract Rd - Paving



Tract Rd - Compaction

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED  
HIGHWAYS**

<b>PROJECT</b>	<b>6-Year</b>	<b>Total Project</b>	<b>Prior Budget</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Costs After</b>
Highways										
Pavement Mgmt Pgm FY09-ongoing	82,165,100	110,832,005	28,666,905	8,656,100	12,260,100	15,946,200	16,866,700	14,218,000	14,218,000	0
Highway Network Systemic - General	5,532,000	6,432,000	900,000	922,000	922,000	922,000	922,000	922,000	922,000	0
Sidewalk Retrofit Program	5,433,000	6,493,000	1,060,000	1,086,600	1,086,600	1,086,600	1,086,600	1,086,600	0	0
Road Signalization FY09 ongoing	1,885,200	2,758,228	873,028	314,200	314,200	314,200	314,200	314,200	314,200	0
Roads Satellite Facilities #3	5,682,600	5,682,600	0	264,450	1,143,900	276,750	2,193,500	1,804,000	0	0
Urbana Satellite Yard	3,376,640	3,376,640	0	90,000	250,000	3,036,640	0	0	0	0
SHA - Jefferson Streetscape	150,000	150,000	0	150,000	0	0	0	0	0	0
Total: Highways	104,224,540	135,724,473	31,499,933	11,483,350	15,976,800	21,582,390	21,383,000	18,344,800	15,454,200	0
<b>Total Expense</b>	<b>104,224,540</b>	<b>135,724,473</b>	<b>31,499,933</b>	<b>11,483,350</b>	<b>15,976,800</b>	<b>21,582,390</b>	<b>21,383,000</b>	<b>18,344,800</b>	<b>15,454,200</b>	<b>0</b>
<b>FUNDING</b>										
General Fund	41,513,384	29,584	29,120,991	4,730,107	7,535,800	7,195,750	8,678,783	6,846,772	6,526,172	0
General Fund Bonds & Capital Lease	62,711,156	0	2,334,358	6,753,243	8,441,000	14,386,640	12,704,217	11,498,028	8,928,028	0
Other	0	41,149,156	44,584	0	0	0	0	0	0	0
<b>Total Funding Source</b>	<b>104,224,540</b>	<b>41,178,740</b>	<b>31,499,933</b>	<b>11,483,350</b>	<b>15,976,800</b>	<b>21,582,390</b>	<b>21,383,000</b>	<b>18,344,800</b>	<b>15,454,200</b>	<b>0</b>



# Capital Project Summary

**Capital Project Number: HW1001**

**PS Project ID: C29919**

**Capital Project Title: Pavement Mgmt Pgm FY09-ongoing**

**Region: Countywide**

**Asset Category: Highways**

**Est Completion Date:**

**Asset Type: Highways**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

Many of the older county roads have deteriorated and are causing many maintenance problems. Funding is needed to execute this program so that our roadway network can fulfill the public needs. Typically, the funds will be used for the following contracts: patching, surface coat, overlay, cold-in-place recycling, full-depth reclamation, tar and chip sealing, and crack filling.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Construction	110,832,005	28,666,905	8,656,100	12,260,100	15,946,200	16,866,700	14,218,000	14,218,000	
<b>Total Cost:</b>	<b>110,832,005</b>	<b>28,666,905</b>	<b>8,656,100</b>	<b>12,260,100</b>	<b>15,946,200</b>	<b>16,866,700</b>	<b>14,218,000</b>	<b>14,218,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Contributions & Donations	15,000	15,000							
Transfer From General Fund	64,149,131	27,777,547	3,722,857	6,760,100	6,446,200	7,662,483	5,889,972	5,889,972	
General Obligation Bonds	46,667,874	874,358	4,933,243	5,500,000	9,500,000	9,204,217	8,328,028	8,328,028	
<b>Total Cost:</b>	<b>110,832,005</b>	<b>28,666,905</b>	<b>8,656,100</b>	<b>12,260,100</b>	<b>15,946,200</b>	<b>16,866,700</b>	<b>14,218,000</b>	<b>14,218,000</b>	



# Capital Project Summary

**Capital Project Number: HW1050**

**PS Project ID: C29920**

**Capital Project Title: Highway Network Systemic - General**

**Region: Countywide**

**Asset Category: Highways**

**Est Completion Date:**

**Asset Type: Highways**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

This project combines the Pipe Culvert Replacement and Road Stabilization projects from previous capital improvement programs and adds safety/spot improvements for various county roadways. The Pipe Culvert Replacement aspect of this project includes the repair and replacement of pipe culverts and associated headwalls/end treatments with an opening of less than 20' (or extreme ends of openings for multiple pipes) which have been identified through routine inspections or complaints. These culverts are not covered under the Federal Bridge Replacement and Rehabilitation Program. Funding for Road Stabilization projects will be added to this program as they are identified. Construction funding in FY17 includes the stabilization of approximately 2.2 miles of Tower Road using tar and chips, which was removed from the Rural Roads program in FY 15. Safety/Spot improvement projects include widening of existing roadways/intersections for improved safety and efficiency, stabilization of roadway embankments, sight distance enhancements, or drainage improvements. The safety/spot improvements projects in this program will typically require permitting, utility relocations, engineering/design, and/or project management/inspections that are typically beyond the scope of a routine maintenance project but don't meet the requirements of a stand-alone CIP project. New for FY 17: funding added for bridge painting, concrete deck repairs and bridge deck joint repairs/replacement.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Land	161,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	
Site Improvement	65,600	9,200	9,400	9,400	9,400	9,400	9,400	9,400	
Architect/Engineering	164,600	23,000	23,600	23,600	23,600	23,600	23,600	23,600	
Construction	5,711,600	798,800	818,800	818,800	818,800	818,800	818,800	818,800	
Project Management & Inspections	329,200	46,000	47,200	47,200	47,200	47,200	47,200	47,200	
<b>Total Cost:</b>	<b>6,432,000</b>	<b>900,000</b>	<b>922,000</b>	<b>922,000</b>	<b>922,000</b>	<b>922,000</b>	<b>922,000</b>	<b>922,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	2,232,000	300,000	322,000	322,000	322,000	322,000	322,000	322,000	
General Obligation Bonds	4,200,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	
<b>Total Cost:</b>	<b>6,432,000</b>	<b>900,000</b>	<b>922,000</b>	<b>922,000</b>	<b>922,000</b>	<b>922,000</b>	<b>922,000</b>	<b>922,000</b>	



# Capital Project Summary

**Capital Project Number: HW1090**

**PS Project ID: C29921**

**Capital Project Title: Sidewalk Retrofit Program**

**Region:**

**Asset Category: Highways**

**Est Completion Date: 7/3/2025**

**Asset Type: Highways**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

This project will address deficiencies in existing pedestrian facilities within County maintained rights-of-way that were found to be non-compliant with current Americans with Disabilities Act (ADA) standards. The County conducted a Self Evaluation in the spring of 2014 to identify these deficiencies and subsequently developed a Transition Plan to address the deficiencies. The Transition Plan commits to addressing the deficiencies found in the 2014 self evaluation over a 10 year period beginning in the 2016 fiscal year. Sidewalk and ramp work will be performed along County roads in residential and commercial areas throughout the County. The work includes complete reconstruction of approximately 20 miles of sidewalk and repair or replacement of 2,218 curb ramps, 1,177 driveway aprons, and 3,747 other non-compliant sidewalk features.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Construction	5,574,000	910,000	932,800	932,800	932,800	932,800	932,800		
Project Management & Inspections	919,000	150,000	153,800	153,800	153,800	153,800	153,800		
<b>Total Cost:</b>	<b>6,493,000</b>	<b>1,060,000</b>	<b>1,086,600</b>	<b>1,086,600</b>	<b>1,086,600</b>	<b>1,086,600</b>	<b>1,086,600</b>		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,213,000	200,000	186,600	186,600	186,600	226,600	226,600		
General Obligation Bonds	5,280,000	860,000	900,000	900,000	900,000	860,000	860,000		
<b>Total Cost:</b>	<b>6,493,000</b>	<b>1,060,000</b>	<b>1,086,600</b>	<b>1,086,600</b>	<b>1,086,600</b>	<b>1,086,600</b>	<b>1,086,600</b>		



# Capital Project Summary

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**Capital Project Number:** HW1100

**PS Project ID:** C29939

**Capital Project Title:** Road Signalization FY09 ongoing

**Region:** Countywide

**Asset Category:** Highways

**Est Completion Date:**

**Asset Type:** Highways

**Year Identified:** 2010

**Capital Project Status:** Open

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## Capital Project Description:

This program provides funds for new signal, signal modification, and road channelization needs at State-County intersections as well as at County-County intersections.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	10,000	10,000							
Construction	2,748,228	863,028	314,200	314,200	314,200	314,200	314,200	314,200	
<b>Total Cost:</b>	<b>2,758,228</b>	<b>873,028</b>	<b>314,200</b>	<b>314,200</b>	<b>314,200</b>	<b>314,200</b>	<b>314,200</b>	<b>314,200</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	2,428,644	843,444	214,200	214,200	214,200	314,200	314,200	314,200	
General Obligation Bonds	300,000		100,000	100,000	100,000				
Developer Contributions	29,584	29,584							
<b>Total Cost:</b>	<b>2,758,228</b>	<b>873,028</b>	<b>314,200</b>	<b>314,200</b>	<b>314,200</b>	<b>314,200</b>	<b>314,200</b>	<b>314,200</b>	



# Capital Project Summary

**Capital Project Number: HW3004**

**Capital Project Title: Roads Satellite Facilities #3**

**Asset Category: Highways**

**Asset Type: Highways**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Brunswick, Middletown, New Market**

**Est Completion Date: 10/30/2021**

**Year Identified: 2010**

## Capital Project Description:

This project enables the County to station staff, materials, and equipment at satellite facilities in Myersville, Jefferson, and the Landfill. The focus of Phase 1 (FY17/18) is Myersville's security and safety needs: water well deficiencies are addressed, a new entrance onto US 40 is provided, and a truck shed with washbay is constructed. Phase 2 (FY19/20) replaces existing lean-to structures that currently serve personnel needs and shelter equipment and tools with a pre-engineered building that furnishes space requisite for 24/7 operation during weather events and renovates Myersville's welding shop. Phase 3 (FY21) completes the Myersville site with a fuel island and backup generator, upgrades fuel storage and security at Jefferson and the Landfill, and provides a back-up generator at Jefferson. FY2017: Costs escalated 2.5%

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Noncapital Equipment	10,000		5,000	5,000					
Site Improvement	128,125		35,875		41,000		51,250		
Architect/Engineering	410,000		71,750		184,500		153,750		
Construction	4,601,225		95,325	1,067,025		2,003,875	1,435,000		
IIT Infrastructure	87,125					25,625	61,500		
Project Management & Inspections	210,375		21,000	36,375	31,250	41,500	80,250		
Furniture and Equipment	31,000		15,500	15,500					
Technology Equipment-IIT/DPW	102,500					102,500			
Project Management	102,250		20,000	20,000	20,000	20,000	22,250		
<b>Total Cost:</b>	<b>5,682,600</b>		<b>264,450</b>	<b>1,143,900</b>	<b>276,750</b>	<b>2,193,500</b>	<b>1,804,000</b>		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	346,600		44,450	27,900	26,750	153,500	94,000		
General Obligation Bonds	5,336,000		220,000	1,116,000	250,000	2,040,000	1,710,000		
<b>Total Cost:</b>	<b>5,682,600</b>		<b>264,450</b>	<b>1,143,900</b>	<b>276,750</b>	<b>2,193,500</b>	<b>1,804,000</b>		



# Capital Project Summary

**Capital Project Number:** HW3005

**PS Project ID:**

**Capital Project Title:** Urbana Satellite Yard

**Region:** Urbana

**Asset Category:** Highways

**Est Completion Date:** 7/2/2019

**Asset Type:** Highways

**Year Identified:** 2017

**Capital Project Status:** Open

## Capital Project Description:

This project improves operations at the Urbana Satellite Yard with the installation of a 10,000 ton Salt Barn with conveyor and attached truck shed for equipment storage. Trailers providing office space and living quarters used during emergency operations are replaced with a permanent stick-built structure. Other costs include an oil/grit separator, trailer haul-off, concrete and paving repairs. A feasibility study is performed prior to commencing site design and will refine project costs.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	20,000			20,000					
Architect/Engineering	210,000			210,000					
Feasibility Study	80,000		80,000						
Construction	2,900,000				2,900,000				
IIT Infrastructure	8,240				8,240				
Project Management & Inspections	150,000		10,000	20,000	120,000				
Technology Equipment-IIT/DPW	8,400				8,400				
<b>Total Cost:</b>	<b>3,376,640</b>		<b>90,000</b>	<b>250,000</b>	<b>3,036,640</b>				

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	115,000		90,000	25,000					
General Obligation Bonds	3,261,640			225,000	3,036,640				
<b>Total Cost:</b>	<b>3,376,640</b>		<b>90,000</b>	<b>250,000</b>	<b>3,036,640</b>				



# Capital Project Summary

**Capital Project Number:** HW5009

**PS Project ID:**

**Capital Project Title:** SHA - Jefferson Streetscape

**Region:**

**Asset Category:** Highways

**Est Completion Date:**

**Asset Type:** Highways

**Year Identified:** 2017

**Capital Project Status:** Open

## Capital Project Description:

The MD 180 Jefferson Pike project is located in the unincorporated community of Jefferson, Frederick County. The purpose of this project is to improve pedestrian safety and drainage within the town of Jefferson. The scope of work includes sidewalk reconstruction and new construction, Americans with Disabilities Act (ADA) ramp improvements, drainage improvements, installation of new Stormwater Management (SWM) facilities, roadway resurfacing, installation of pedestrian crossing signals, and landscaping.

\*\*ONLY the county's contribution is being shown

### Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Appropriations	150,000		150,000						
<b>Total Cost:</b>	150,000		150,000						

### Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	150,000		150,000						
<b>Total Cost:</b>	150,000		150,000						

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FREDERICK COMMUNITY  
COLLEGE

## FREDERICK COMMUNITY COLLEGE

The Frederick County Comprehensive Plan does not directly address Frederick Community College (FCC) facility needs. The College has a Master Plan which projects campus needs over a long term period.

- **Monroe Reconfiguration** – This project includes upgrades to the HVAC. It also will upgrade the labs and reconfigure space for the Culinary Arts, Cyber Security, general classrooms, and support areas.
- **Jefferson Hall and Linganore Hall Reconfiguration Conversion** – combines two separate projects which will allow the Allied Health programs to Jefferson Hall and the student support services to move into Linganore Hall, creating a “Welcome Center” and one stop shop for prospective and current students
- **Technology Upgrade** – Funding is scheduled in FY18, FY19, and FY21 for upgrades to PeopleSoft Student, HR and Finance software systems.
- **Classroom Technology Upgrades** – Provides funding to upgrade classroom technology in buildings not being totally renovated.
- **FCC Systemics** – Renovations to maintain buildings and grounds and to address life safety projects



**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

COMMUNITY COLLEGE

PROJECT	6-Year	Total Project	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Community College										
Monroe Reconfiguration	6,303,626	7,029,000	725,374	6,303,626	0	0	0	0	0	0
Jefferson Hall and Linganore Hall Reconfiguration Conversion	11,674,757	11,674,757	0	0	0	0	649,050	9,500,000	1,525,707	0
Technology Upgrade	1,300,000	2,754,418	1,454,418	0	500,000	500,000	0	300,000	0	0
Classroom Technology Upgrades	950,000	1,450,000	500,000	250,000	150,000	150,000	150,000	150,000	0	0
FCC Systemics	3,500,000	5,868,112	2,368,112	1,000,000	500,000	500,000	500,000	500,000	500,000	0
Total: Community College	23,728,383	28,776,287	5,047,904	7,553,626	1,250,000	1,150,000	1,299,050	10,450,000	2,025,707	0
<b>Total Expense</b>	<b>23,728,383</b>	<b>28,776,287</b>	<b>5,047,904</b>	<b>7,553,626</b>	<b>1,250,000</b>	<b>1,150,000</b>	<b>1,299,050</b>	<b>10,450,000</b>	<b>2,025,707</b>	<b>0</b>

**FUNDING**

General Fund	4,839,271	13,612,098	2,933,908	750,000	1,000,000	900,000	400,846	890,000	898,425	0
General Fund Bonds & Capital Lease	8,134,126	0	2,113,996	4,548,626	(1,537,000)	250,000	525,000	4,097,500	250,000	0
Grants	10,754,986	9,246,186	0	2,255,000	1,787,000	0	373,204	5,462,500	877,282	0
<b>Total Funding Source</b>	<b>23,728,383</b>	<b>22,858,284</b>	<b>5,047,904</b>	<b>7,553,626</b>	<b>1,250,000</b>	<b>1,150,000</b>	<b>1,299,050</b>	<b>10,450,000</b>	<b>2,025,707</b>	<b>0</b>



# Capital Project Summary

**Capital Project Number: FC2004**

**PS Project ID: C76086**

**Capital Project Title: Monroe Reconfiguration**

**Region:**

**Asset Category: Community College**

**Est Completion Date:**

**Asset Type: Community College**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

Renovate and reconfigure approximately 40,000 square feet of the 55,000 square foot building to expand the College's ability to provide Frederick County with workforce training in both existing and newly added trade and technical programs. Frederick County Workforce Services will renovate the remaining space for their program needs. The synergy created by co-location of these two entities will create a natural pathway for County citizens requiring help entering the workforce. Renovation would include creation or upgrades of HVAC, Welding, Electric, and Innovation labs, increased Culinary Arts spaces, a Cyber Security lab, classrooms, offices, lounge space and support areas.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	725,374	725,374							
Construction	6,303,626		6,303,626						
<b>Total Cost:</b>	<b>7,029,000</b>	<b>725,374</b>	<b>6,303,626</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
MD Educ Grants Restricted	4,042,000		2,255,000	1,787,000					
Transfer From General Fund	25,374	25,374							
General Obligation Bonds	2,961,626	700,000	4,048,626	-1,787,000					
<b>Total Cost:</b>	<b>7,029,000</b>	<b>725,374</b>	<b>6,303,626</b>						



# Capital Project Summary

**Capital Project Number:** FC2006

**PS Project ID:**

**Capital Project Title:** Jefferson Hall and Linganore Hall Reconfiguration Conversion

**Region:**

**Asset Category:** Community College

**Est Completion Date:**

**Asset Type:** Community College

**Year Identified:** 2015

**Capital Project Status:** Open

## Capital Project Description:

Although both Jefferson Hall and Linganore Hall were originally proposed as two separate renovations, moving the Allied Health programs to Jefferson Hall would allow student support services to move into Linganore Hall, creating a "Welcome Center" and one stop shop for prospective and current students. The co-location and consolidation of services allows a seamless approach to enrollment and learning support delivery.

In addition to the research, study, collaboration, tutoring and writing functions in the Learning Commons, Linganore Hall would house the centralization of support services including testing, counseling, career advising, financial aid and enrollment services, currently housed in Jefferson Hall. These moves would increase our effectiveness while optimizing our NASF usage.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Architect/Engineering	649,050					649,050			
Construction	9,500,000						9,500,000		
Furniture and Equipment	1,525,707							1,525,707	
<b>Total Cost:</b>	<b>11,674,757</b>					<b>649,050</b>	<b>9,500,000</b>	<b>1,525,707</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
MD Educ Grants Restricted	6,712,986					373,204	5,462,500	877,282	
Transfer From General Fund	839,271					846	190,000	648,425	
General Obligation Bonds	4,122,500					275,000	3,847,500		
<b>Total Cost:</b>	<b>11,674,757</b>					<b>649,050</b>	<b>9,500,000</b>	<b>1,525,707</b>	



# Capital Project Summary

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**Capital Project Number: FC5007**

**PS Project ID: C76010**

**Capital Project Title: Technology Upgrade**

**Region: Frederick**

**Asset Category: Community College**

**Est Completion Date: 7/2/2025**

**Asset Type: Community College**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

Upgrade PeopleSoft Student, HR, and Finance systems from Version 8 to Version 9 and Oracle upgrade.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Appropriations	654,418	654,418							
Capital Approp Equipment	2,100,000	800,000		500,000	500,000		300,000		
<b>Total Cost:</b>	<b>2,754,418</b>	<b>1,454,418</b>		<b>500,000</b>	<b>500,000</b>		<b>300,000</b>		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	2,754,418	1,454,418		500,000	500,000		300,000		
General Obligation Bonds	0								
<b>Total Cost:</b>	<b>2,754,418</b>	<b>1,454,418</b>		<b>500,000</b>	<b>500,000</b>		<b>300,000</b>		



# Capital Project Summary

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**Capital Project Number: FC5008**

**PS Project ID: C76012**

**Capital Project Title: Classroom Technology Upgrades**

**Region: Frederick**

**Asset Category: Community College**

**Est Completion Date: 9/30/2025**

**Asset Type: Community College**

**Year Identified: 2014**

**Capital Project Status: Open**

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## Capital Project Description:

Provides funding to upgrade classroom technology in buildings not being totally renovated. This includes items such as smartboard technology and projection systems. In each of the three years funds are requested, this project will allow the purchase and installation of new / upgraded systems for a particular building(s). Buildings that will require upgrading include Building E, F, C, L, G, H, & J.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Approp Equipment	1,450,000	500,000	250,000	250,000	150,000	150,000	150,000		
<b>Total Cost:</b>	1,450,000	500,000	250,000	250,000	150,000	150,000	150,000		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,450,000	500,000	250,000	250,000	150,000	150,000	150,000		
<b>Total Cost:</b>	1,450,000	500,000	250,000	250,000	150,000	150,000	150,000		



# Capital Project Summary

**Capital Project Number: FC5012**

**PS Project ID: C76063**

**Capital Project Title: FCC Systemics**

**Region: Frederick**

**Asset Category: Community College**

**Est Completion Date:**

**Asset Type: Community College**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

These funds support miscellaneous systemics, changing requirements due to program changes, and life safety issues. Projects currently in planning: Exterior lighting replacement; Building F entry and door replacement; Paving repairs; C206 computer lab; E125, 125 and 126 upgrade; fire safety system upgrade, and other projects as needed.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Appropriations	5,671,306	2,171,306	1,000,000	500,000	500,000	500,000	500,000	500,000	
Capital Approp Equipment	196,806	196,806							
<b>Total Cost:</b>	<b>5,868,112</b>	<b>2,368,112</b>	<b>1,000,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	2,704,116	954,116	500,000	250,000	250,000	250,000	250,000	250,000	
General Obligation Bonds	3,163,996	1,413,996	500,000	250,000	250,000	250,000	250,000	250,000	
<b>Total Cost:</b>	<b>5,868,112</b>	<b>2,368,112</b>	<b>1,000,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	

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# BOARD OF EDUCATION

## BOARD OF EDUCATION

As a target for planning, the FCPS has established that the school system should ultimately operate at a capacity below 100% at each level. The purpose would be to decrease the number of schools that are more than 100% capacity and create enough flexibility to more effectively respond to instructional program needs and enrollment growth. The BOE has accepted a target goal of 90% capacity at each level. The Frederick County Comprehensive Plan also includes a policy, which states that the County should “maintain a system wide enrollment capacity of 90% at the elementary, middle, and high school levels.”

As shown in Table 5, the increase in students over the next seven years will be approximately 1,254. The largest increase is at the high school levels where there will be approximately 1,472

	Elementary	Middle	High	Pre K-12 Total	Total Change Per Year
Sep. 2015	18,671	9,018	12,251	39,940	
Sep. 2016	18,615	9,084	12,324	40,023	83
Sep. 2017	18,624	9,431	12,632	40,687	664
Sep. 2018	18,401	9,715	12,668	40,784	97
Sep. 2019	18,352	9,837	12,907	41,096	312
Sep. 2020	18,591	9,724	13,196	41,511	415
Sep. 2021	18,892	9,610	13,481	41,983	472
Sep. 2022	19,925	9,547	13,723	43,195	1,212
<b>Total Increase</b>	1,254	529	1,472	3,255	

-Enrollments are “equated” enrollment  
 -September 2015 enrollments are actual. September 2016 enrollments are based on actual September 2015 enrollments; All others are projected as of June 2015 and were based on a projected September 2015 enrollment.  
 -Enrollments do not include students enrolled at Success Program, Heather Ridge, Rock Creek or Frederick County Virtual School.

*Prepared by the FCPS Facilities Services Division, April 2016*

seats needed for growth through 2022. In an attempt to meet the overall additional enrollment and current capacity issues in certain areas, funding is provided for the construction of five projects through FY 2022. These projects will increase elementary school seating by 1,984 and high school seating by 223 (Table 6).

Although system-wide there are currently 770 elementary seats in excess of enrollment, there are 13 elementary schools that are over 100% of capacity. The 2022 overall enrollment/capacity rate at the elementary school level is projected to decrease from the current level of 96% to 93%. Construction funding for two new elementary schools is scheduled in FY2018, which will add 1,450 seats by August of 2018. Two more schools (one addition and one replacement) are scheduled to receive construction funding in FY2020 and

FY2021 which will add 498 additional seats.

At the middle school level, there is a projected increase of approximately 529 students. Currently, there are two middle schools over 100% of capacity. However, system-wide there is a current excess of 2,501 seats. The overall middle school enrollment/capacity rate is projected to increase from the present 78% to 83%.

The high school level is projected to increase by approximately 1,472 students over the seven year period. Currently, there is no high school over 100% of capacity. System-wide there is a current excess of 2,245 seats. The 2022 overall enrollment/capacity rate at the high school level will increase from the current level of 85% to 93%.

In addition to the additional seats needed, the Board of Education has prepared an evaluation of older schools and compiled a listing of schools in need of renovation. The Board has attempted to balance the need for new seats with renovation of older schools to ensure equity of facilities for all school communities. This priority listing is arranged by level and is included in the Educational



Facilities Master Plan. The current top priority is Frederick HS (currently under construction) followed by Urbana ES, Rock Creek, and Liberty ES. Using the priority listing prepared by the Board, additional projects will be added as funding permits in the future.

<b>Const./Open Yr./Date</b>	<b>School</b>	<b>Elem.</b>	<b>Middle</b>	<b>High</b>
Cur./Aug 17	Frederick HS: Replacement			223
FY18/Aug 18	Sugarloaf ES: New	725		
FY18/Aug 18	Butterfly Ridge ES: New	725		
FY20/Aug 20	Urbana ES: Replacement	214		
FY21/Aug 21	Waverly Elementary: Addition	284		
	<b>Total New Seats</b>	<b>1,948</b>	<b>0</b>	<b>223</b>

Updated by FCG Budget Office:

“Seats” do NOT include students enrolled at Rock Creek School, Heather Ridge, or Evening High

<i>based on "equated" enrollment</i>		<u>Elem</u>	<u>Middle</u>	<u>High</u>
Total New Seats Available		1,948	0	223
Existing Seat Excess/(Deficit)	+	770	2,501	2,245
Seats Available		2,718	2,501	2,468
Additional Seats Needed	-	1,254	529	1,472
Seat Excess/(Deficit)		1,464	1,972	996
<hr/>				
Sept 2022 Enrollment		19,925	9,547	13,723
Sept 2022 Capacity		21,389	11,519	14,719
Sept 2022 Enrollment/Capacity Ratio		93%	83%	93%

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED**

**BOARD OF EDUCATION**

<b>PROJECT</b>	<b>6-Year</b>	<b>Total Project</b>	<b>Prior Budget</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Costs After</b>
<b>New/Modernizations</b>										
Waverley ES: Addition	26,127,401	26,127,401	0	0	0	2,375,500	0	23,751,901	0	0
Sugarloaf ES: New	37,790,911	40,444,755	2,653,844	5,000,000	32,790,911	0	0	0	0	0
Frederick HS: Replacement	19,815,681	114,598,445	94,782,764	19,815,681	0	0	0	0	0	0
Urbana ES: Replacement	43,390,386	43,437,086	46,700	0	4,114,500	7,520,000	31,755,886	0	0	0
Butterfly Ridge ES: New	43,668,194	46,255,732	2,587,538	5,200,000	38,468,194	0	0	0	0	0
Middletown MS: Renovation	5,462,500	48,336,743	0	0	200,000	0	0	0	5,262,500	42,874,243
Liberty ES: Modernization	4,734,000	37,540,618	0	0	200,000	0	0	0	4,534,000	32,806,618
East County area ES: New	3,347,799	41,727,732	0	0	0	0	0	3,347,799	0	38,379,933
Rock Creek School: Renovation	3,507,000	37,249,531	140,000	0	0	0	0	3,507,000	0	33,602,531
<b>Total: New/Modernizations</b>	<b>187,843,872</b>	<b>435,718,043</b>	<b>100,210,846</b>	<b>30,015,681</b>	<b>75,573,605</b>	<b>10,095,500</b>	<b>31,755,886</b>	<b>30,606,700</b>	<b>9,796,500</b>	<b>147,663,325</b>
<b>Systemic</b>										
Systemics - Generic	26,050,000	26,050,000	0	6,050,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	0
Technology Improvements	500,000	5,282,897	4,782,897	500,000	0	0	0	0	0	0
Portable Classrooms	3,000,000	3,300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	0
<b>Total: Systemic</b>	<b>29,550,000</b>	<b>34,632,897</b>	<b>5,082,897</b>	<b>7,050,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>0</b>
<b>Total Expense</b>	<b>217,393,872</b>	<b>470,350,940</b>	<b>105,293,743</b>	<b>37,065,681</b>	<b>80,073,605</b>	<b>14,595,500</b>	<b>36,255,886</b>	<b>35,106,700</b>	<b>14,296,500</b>	<b>147,663,325</b>
<b>FUNDING</b>										
General Fund	4,861,500	18,083,627	7,182,281	1,000,000	500,000	700,000	500,000	1,300,000	861,500	6,039,846
General Fund Bonds & Capital Lease	89,923,617	283,665,304	68,613,208	1,872,681	22,073,850	12,280,500	27,156,886	19,604,700	6,935,000	125,128,479
Recordation Tax & Bonds	5,150,000	14,985,852	9,835,852	3,000,000	200,000	0	1,950,000	0	0	0
Impact Fee & Bonds	29,280,755	35,793,407	17,652	2,329,000	17,951,755	0	4,000,000	5,000,000	0	6,495,000
School Mitigation Fee	17,500,000	27,500,000	0	0	12,500,000	0	0	5,000,000	0	10,000,000
Grants	70,678,000	90,322,750	19,644,750	18,979,000	15,500,000	13,400,000	10,299,000	6,000,000	6,500,000	0
Other	0	0	0	9,885,000	11,348,000	(11,785,000)	(7,650,000)	(1,798,000)	0	0
<b>Total Funding Source</b>	<b>217,393,872</b>	<b>470,350,940</b>	<b>105,293,743</b>	<b>37,065,681</b>	<b>80,073,605</b>	<b>14,595,500</b>	<b>36,255,886</b>	<b>35,106,700</b>	<b>14,296,500</b>	<b>147,663,325</b>

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# Capital Project Summary

**Capital Project Number: ED0010**

**PS Project ID: C65300**

**Capital Project Title: Estimated State Funding**

**Region:**

**Asset Category: Board of Education**

**Est Completion Date:**

**Asset Type: New/Modernizations**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project is the estimate of State of Maryland's allocation for Board of Education capital projects. This is primarily refunding the County for forward funding. The prior approval and first fiscal year are shown in the individual projects.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
<b>Total Cost:</b>	0								

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
State-BOE Capital Project	51,699,000			15,500,000	13,400,000	10,299,000	6,000,000	6,500,000	
State BOE Unallocated	-36,733,000			-15,500,000	-11,785,000	-7,650,000	-1,798,000		
General Obligation Bonds	2,183,000				1,385,000		798,000		
Bonds-FCPS Forward Funding	-17,149,000				-3,000,000	-2,649,000	-5,000,000	-6,500,000	
<b>Total Cost:</b>	0								



# Capital Project Summary

**Capital Project Number: ED1009**

**PS Project ID:**

**Capital Project Title: Waverley ES: Addition**

**Region: Frederick**

**Asset Category: Board of Education**

**Est Completion Date: 8/2/2021**

**Asset Type: New/Modernizations**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

After a revision from the State Department of Planning in March 2014, Waverley ES has a SRC of 416 and is currently operating at 137% of SRC with 12 portables. For the 2016-17 school year, Waverley will be operating with 17 portable classrooms and is anticipated to be at 144% of SRC. This addition will add 284 seats and provide a minimal expansion of the core facilities. The scope of work now includes a sprinkler system to meet current building code as well as improvements to the SWM system to meet new state regulations.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	2,393,643						2,393,643		
Architect/Engineering	1,317,000				1,317,000				
Construction	21,616,758				1,058,500		20,558,258		
Capital Approp Equipment	800,000						800,000		
<b>Total Cost:</b>	<b>26,127,401</b>				<b>2,375,500</b>		<b>23,751,901</b>		

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	800,000						800,000		
Transfer From Impact Fee Funds	2,000,000						2,000,000		
Transfer from Mitigation Fees	5,000,000						5,000,000		
General Obligation Bonds	9,653,401				2,375,500		7,277,901		
Bonds-FCPS Forward Funding	8,674,000						8,674,000		
<b>Total Cost:</b>	<b>26,127,401</b>				<b>2,375,500</b>		<b>23,751,901</b>		



# Capital Project Summary

**Capital Project Number: ED1013**

**PS Project ID: C65513**

**Capital Project Title: Sugarloaf ES: New**

**Region: Urbana**

**Asset Category: Board of Education**

**Est Completion Date: 8/4/2018**

**Asset Type: New/Modernizations**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This will be a new facility with a student capacity of 725. This project will be located on a donated site in the Urbana North MXD, and is planned to relieve overcrowding at Urbana ES and Centerville ES. Centerville ES is currently operating at 148% of SRC with 17 portable classrooms and Urbana ES is operating at 135% of SRC with 14 portables. Overcrowding at these schools is expected to continue as the Urbana PUD and other developments continue to build out. It is anticipated that the Sugarloaf ES building will serve as a holding school for the Urbana ES students and staff while the Urbana ES is replaced on site. Sugarloaf ES will then open as a new school in August 2020. (old project name: Urbana Area ES - New)

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	5,112,452		5,000,000	112,452					
Architect/Engineering	3,480,566	1,605,896		1,874,670					
Construction	29,951,737	1,047,948		28,903,789					
Capital Approp Equipment	1,900,000			1,900,000					
<b>Total Cost:</b>	<b>40,444,755</b>	<b>2,653,844</b>	<b>5,000,000</b>	<b>32,790,911</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
State-BOE Capital Project	2,671,000		2,671,000						
State BOE Unallocated	12,093,000			12,093,000					
Transfer From Impact Fee Funds	8,180,755		2,329,000	5,851,755					
Transfer from Mitigation Fees	12,500,000			12,500,000					
General Obligation Bonds	0	2,653,844		-2,653,844					
Impact Fee Bonds	5,000,000			5,000,000					
<b>Total Cost:</b>	<b>40,444,755</b>	<b>2,653,844</b>	<b>5,000,000</b>	<b>32,790,911</b>					



# Capital Project Summary

**Capital Project Number: ED1015**

**PS Project ID: C65511**

**Capital Project Title: Frederick HS: Replacement**

**Region: Frederick**

**Asset Category: Board of Education**

**Est Completion Date: 8/4/2017**

**Asset Type: New/Modernizations**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

This project will replace the 67 year old high school and provide a modern facility that will meet the current curriculum requirements. Frederick HS was originally constructed in 1939 with additions in 1955, 1967, 1977 and 1980. Approximately 90,000 sq. ft were renovated 30 years ago. Only minor systemic improvements have been done since. A modernization is needed to provide the required curriculum of a high school. Frederick HS was identified in a recent facility needs assessment as the second priority for renovation needs at the high school level behind Linganore HS. A feasibility study was completed in January 2013. Option 5 to replace the existing High School with a new, modern facility was recommended by the steering committee and approved by the Board of Education. The Interagency Committee on School Construction designees have also approved moving forward with Option 5.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	7,566,462	10,386,373	-2,819,911						
Architect/Engineering	3,390,500	3,390,500							
Construction	97,909,733	80,774,141	17,135,592						
Capital Approp - Studies	231,750	231,750							
Capital Approp Equipment	5,500,000		5,500,000						
<b>Total Cost:</b>	<b>114,598,445</b>	<b>94,782,764</b>	<b>19,815,681</b>						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
State-BOE Capital Project	31,644,750	19,644,750	12,000,000						
State BOE Unallocated	9,885,000		9,885,000						
Transfer From General Fund	1,662,684	1,662,684							
Transfer from 33 Fund	5,512,852	2,512,852	3,000,000						
General Obligation Bonds	58,275,110	63,344,429	-5,069,319						
Premium - GO Bonds	295,049	295,049							
Recordation Tax Bonds	7,323,000	7,323,000							
<b>Total Cost:</b>	<b>114,598,445</b>	<b>94,782,764</b>	<b>19,815,681</b>						



# Capital Project Summary

**Capital Project Number: ED1017**

**PS Project ID: C65514**

**Capital Project Title: Urbana ES: Replacement**

**Region:**

**Asset Category: Board of Education**

**Est Completion Date: 8/2/2020**

**Asset Type: New/Modernizations**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

The facilities assessment completed by FCPS in April of 2000 shows that Urbana ES ranks high on the list of elementary schools to be modernized, particularly in terms of the condition of the physical facility. Urbana elementary school was originally constructed in 1960, at 36,646 GSF, and has received additions in 1965 and 1975. The total area of the building is 64,133 GSF. While occasional systemic repairs and replacements have occurred, no significant renovations have occurred in the past 55 years. The Board of Education approved the November 2014 feasibility study that recommended replacing the existing building with a new building on the existing site. In January 2015, the Interagency Committee on School Construction also approved this recommendation. The project will demolish the existing school and construct a new 725 student elementary school, located on the existing school site, while the students are temporarily re-located to the new Sugarloaf ES building.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	5,140,488				5,140,488				
Architect/Engineering	2,093,000			2,093,000					
Construction	34,206,898			2,021,500	2,379,512	29,805,886			
Capital Approp - Studies	46,700	46,700							
Capital Approp Equipment	1,950,000					1,950,000			
<b>Total Cost:</b>	<b>43,437,086</b>	<b>46,700</b>		<b>4,114,500</b>	<b>7,520,000</b>	<b>31,755,886</b>			

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	46,700	46,700							
Transfer From Impact Fee Funds	4,000,000					4,000,000			
Transfer from 33 Fund	1,950,000					1,950,000			
General Obligation Bonds	20,291,386			4,114,500	4,520,000	11,656,886			
Bonds-FCPS Forward Funding	17,149,000				3,000,000	14,149,000			
<b>Total Cost:</b>	<b>43,437,086</b>	<b>46,700</b>		<b>4,114,500</b>	<b>7,520,000</b>	<b>31,755,886</b>			



# Capital Project Summary

**Capital Project Number: ED1023**

**PS Project ID: C65516**

**Capital Project Title: Butterfly Ridge ES: New**

**Region: Frederick**

**Asset Category: Board of Education**

**Est Completion Date: 8/1/2018**

**Asset Type: New/Modernizations**

**Year Identified: 2013**

**Capital Project Status: Open**

## Capital Project Description:

This project primarily relieve overcrowding at Hillcrest, Waverley and Orchard Grove elementary schools but may also relieve other adjoining elementary schools and impact feeder patterns. Hillcrest ES is currently operating at 140% of SRC with 34 portables, Waverley ES is currently operating at 137% of SRC with 12 portables, and Orchard Grove ES is at 94% of SRC with 3 portables. The new elementary school will be located on a 12 acre site, donated by Frederick City, that is located on Butterfly Lane. The new school will have a state rated capacity (SRC) of 725 students and is expected to open in August 2018. (Old Project Name: West Frederick City ES: New)

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	4,899,522		4,899,522						
Architect/Engineering	2,186,366	1,511,692		674,674					
Construction	37,269,844	1,075,846	300,478	35,893,520					
Capital Approp Equipment	1,900,000			1,900,000					
<b>Total Cost:</b>	<b>46,255,732</b>	<b>2,587,538</b>	<b>5,200,000</b>	<b>38,468,194</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
State-BOE Capital Project	2,671,000		2,671,000						
State BOE Unallocated	14,755,000			14,755,000					
Transfer From General Fund	250,000	250,000							
Transfer From Impact Fee Funds	7,117,652	17,652		7,100,000					
General Obligation Bonds	21,462,080	2,319,886	2,529,000	16,613,194					
<b>Total Cost:</b>	<b>46,255,732</b>	<b>2,587,538</b>	<b>5,200,000</b>	<b>38,468,194</b>					



# Capital Project Summary

**Capital Project Number: ED1024**

**PS Project ID:**

**Capital Project Title: Middletown MS: Renovation**

**Region: Middletown**

**Asset Category: Board of Education**

**Est Completion Date:**

**Asset Type: New/Modernizations**

**Year Identified: 2013**

**Capital Project Status: Open**

## Capital Project Description:

Middletown MS opened in 1953 with additions in 1957, 1976 and 1995. There have been no significant renovations to the middle school. This school is the highest priority middle school for modernization in the recently completed FCPS Facilities Assessment. The project will update the building systems and spaces to current standards.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	206,069								206,069
Architect/Engineering	2,475,000							2,475,000	
Construction	41,755,674							2,787,500	38,968,174
Capital Approp - Studies	200,000			200,000					
Capital Approp Equipment	3,700,000								3,700,000
<b>Total Cost:</b>	<b>48,336,743</b>			<b>200,000</b>				<b>5,262,500</b>	<b>42,874,243</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	4,061,500							361,500	3,700,000
Transfer from 33 Fund	200,000			200,000					
General Obligation Bonds	27,995,243							4,901,000	23,094,243
Bonds-FCPS Forward Funding	16,080,000								16,080,000
<b>Total Cost:</b>	<b>48,336,743</b>			<b>200,000</b>				<b>5,262,500</b>	<b>42,874,243</b>



# Capital Project Summary

**Capital Project Number: ED1025**

**PS Project ID:**

**Capital Project Title: Liberty ES: Modernization**

**Region:**

**Asset Category: Board of Education**

**Est Completion Date:**

**Asset Type: New/Modernizations**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

Liberty ES is a two story, nearly 55,000 square foot building, originally constructed in 1927 with additions in 1950, 1967 and 1982. Other than a minor renovation in 1982 of 18,000 sq. ft., there have been no other significant renovations of this school. This project will completely renovate the school and provide a modern facility to meet the current curriculum requirements. A feasibility study to define the scope of work is scheduled for FY19.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	4,286,400								4,286,400
Architect/Engineering	1,926,000							1,926,000	
Feasibility Study	200,000				200,000				
Construction	30,128,218							2,608,000	27,520,218
Capital Approp Equipment	1,000,000								1,000,000
<b>Total Cost:</b>	<b>37,540,618</b>				<b>200,000</b>			<b>4,534,000</b>	<b>32,806,618</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,200,000				200,000				1,000,000
General Obligation Bonds	25,144,618							4,534,000	20,610,618
Bonds-FCPS Forward Funding	11,196,000								11,196,000
<b>Total Cost:</b>	<b>37,540,618</b>				<b>200,000</b>			<b>4,534,000</b>	<b>32,806,618</b>



# Capital Project Summary

**Capital Project Number: ED1030**

**PS Project ID:**

**Capital Project Title: East County area ES: New**

**Region:**

**Asset Category: Board of Education**

**Est Completion Date:**

**Asset Type: New/Modernizations**

**Year Identified: 2013**

**Capital Project Status: Open**

## Capital Project Description:

This will be a new 725 SRC elementary school on a site dedicated in the Linganore PUD or the Landsdale Development, depending on the continued buildout of the PUD and other large planned residential communities in east Frederick County. This project was formerly referred to as Linganore area ES. A site will be dedicated in the Linganore PUD and on Ed McClain Rd in the Landsdale Subdivision. The school will be approximately 93,000 sq. ft.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	5,143,642								5,143,642
Architect/Engineering	1,951,866						1,951,866		
Construction	32,637,224						1,395,933		31,241,291
Capital Approp Equipment	1,995,000				1,995,000				1,995,000
<b>Total Cost:</b>	<b>41,727,732</b>						<b>3,347,799</b>		<b>38,379,933</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	339,846								339,846
Transfer From Impact Fee Funds	9,495,000						3,000,000		6,495,000
Transfer from Mitigation Fees	10,000,000								10,000,000
General Obligation Bonds	4,743,886						347,799		4,396,087
Bonds-FCPS Forward Funding	17,149,000								17,149,000
<b>Total Cost:</b>	<b>41,727,732</b>						<b>3,347,799</b>		<b>38,379,933</b>



# Capital Project Summary

**Capital Project Number: ED1040**

**PS Project ID: C65401**

**Capital Project Title: Rock Creek School: Renovation**

**Region:**

**Asset Category: Board of Education**

**Est Completion Date:**

**Asset Type: New/Modernizations**

**Year Identified: 2014**

**Capital Project Status: Open**

## Capital Project Description:

Rock Creek School provides special education programs for Frederick County students with severe complex medical conditions and severe intellectual, physical, emotional, hearing, vision and learning disabilities from age 3 through 21. The school, located on the same site as the Waverley Elementary School, was built in 1972 and has had no significant renovations in the past 43 years. A feasibility study began in April 2015 and is expected to take approximately 12 months to complete. The feasibility study will result in a recommendation to the Superintendent and Board of Education regarding the scope of work required to renovate/modernize the school.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Site Improvement	3,921,306						1,736,000		2,185,306
Architect/Engineering	1,771,000						1,771,000		
Construction	27,417,225								27,417,225
Capital Approp Equipment	4,140,000	140,000							4,000,000
<b>Total Cost:</b>	<b>37,249,531</b>	<b>140,000</b>					<b>3,507,000</b>		<b>33,602,531</b>

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	1,140,000	140,000							1,000,000
General Obligation Bonds	25,454,531						3,507,000		21,947,531
Bonds-FCPS Forward Funding	10,655,000								10,655,000
<b>Total Cost:</b>	<b>37,249,531</b>	<b>140,000</b>					<b>3,507,000</b>		<b>33,602,531</b>



# Capital Project Summary

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**Capital Project Number: ED5001**

**PS Project ID: C65246**

**Capital Project Title: Systemics - Generic**

**Region:**

**Asset Category: Board of Education**

**Est Completion Date:**

**Asset Type: Systemic**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

This project serves as the budget for all systemics including roof, mechanical, paving, etc projects and may be re-allocated to sub-projects as needed for recording and tracking purposes.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Construction	0								
Capital Appropriations	26,050,000		6,050,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	
<b>Total Cost:</b>	26,050,000		6,050,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
State-BOE Capital Project	1,637,000		1,637,000						
Transfer From General Fund	0								
General Obligation Bonds	24,413,000		4,413,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	
<b>Total Cost:</b>	26,050,000		6,050,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	



# Capital Project Summary

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**Capital Project Number: ED5505**

**PS Project ID: C65208**

**Capital Project Title: Technology Improvements**

**Region:**

**Asset Category: Board of Education**

**Est Completion Date:**

**Asset Type: Systemic**

**Year Identified: 2013**

**Capital Project Status: Open**

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## Capital Project Description:

In FY2017 the funding supports the Wide Area Network (WAN) Technology Improvement by replacing outdated hardware and upgrade end of life/end of support core network infrastructure at all of the schools and the central office.  
 \*Prior approval supported the FCPS TechNOW project.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Approp Equipment	5,282,832	4,782,832	500,000						
<b>Total Cost:</b>	5,282,832	4,782,832	500,000						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	5,282,832	4,782,832	500,000						
<b>Total Cost:</b>	5,282,832	4,782,832	500,000						



# Capital Project Summary

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**Capital Project Number: ED7001**

**PS Project ID: C65581**

**Capital Project Title: Portable Classrooms**

**Region:**

**Asset Category: Board of Education**

**Est Completion Date:**

**Asset Type: Systemic**

**Year Identified: 2010**

**Capital Project Status: Open**

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## Capital Project Description:

This project involves the annual purchase and/or relocation of portable classrooms. There are currently 175 county-owned portable classrooms and one 4-classroom state-owned unit in use, providing instructional space. Since many of these units are over 30 years old, we will need to devote part of the annual allocation to refurbishing existing portables. The budgeted amounts may change from year to year depending upon enrollment growth and status of school overcrowding. For project completion in time for fall school opening, it is critical that purchase/relocation contracts be let no later than April of each year.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Approp Equipment	3,300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	
<b>Total Cost:</b>	3,300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	3,300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	
<b>Total Cost:</b>	3,300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	

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# MUNICIPALITIES

## **MUNICIPALITIES**

Funding for the following Municipal projects is scheduled for the FY17-FY22 CIP:

**Airport Improvements** - This project is the County's matching portion of FAA approved projects at the airport.

**Monocacy Boulevard** – Related to the MOU signed by the County in November 2013 that provides a County contribution up to a maximum of \$8,350,000, for the widening and realignment phase that runs from Schifferstadt Boulevard to the Gas House Pike/Monocacy Boulevard intersection.

**Yellow Springs Road Bridge** – Related to the MOU signed by the County in October 2013 that provides a County contribution up to a maximum of \$400,000, for the replacement of the existing bridge on Yellow Springs Road over Tuscarora Creek.

**Emmitsburg Pedestrian Safety Enhancements** – Related to the MOU signed by the County in November 2014 that provides a County contribution up to a maximum of \$140,000, for the construction of a sidewalk along a portion of the Old Emmitsburg Road and Seton Avenue South.

**FY2017-2022 CAPITAL IMPROVEMENT PROGRAM  
APPROVED  
MUNICIPALITIES**

<b>PROJECT</b>	<b>6-Year</b>	<b>Total Project</b>	<b>Prior Budget</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Costs After</b>
City of Frederick										
Frederick Municipal Airport	116,222	505,243	389,021	0	0	0	16,222	50,000	50,000	0
Monocacy Blvd	5,700,000	8,350,000	2,650,000	2,500,000	3,200,000	0	0	0	0	0
Yellow Springs Rd Bridge	400,000	400,000	0	0	0	0	400,000	0	0	0
<b>Total: City of Frederick</b>	<b>6,216,222</b>	<b>9,255,243</b>	<b>3,039,021</b>	<b>2,500,000</b>	<b>3,200,000</b>	<b>0</b>	<b>416,222</b>	<b>50,000</b>	<b>50,000</b>	<b>0</b>
Town of Emmitsburg										
Emmitsburg Pedestrian Safety Enhancements	140,000	140,000	0	140,000	0	0	0	0	0	0
<b>Total: Town of Emmitsburg</b>	<b>140,000</b>	<b>140,000</b>	<b>0</b>	<b>140,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Expense</b>	<b>6,356,222</b>	<b>9,395,243</b>	<b>3,039,021</b>	<b>2,640,000</b>	<b>3,200,000</b>	<b>0</b>	<b>416,222</b>	<b>50,000</b>	<b>50,000</b>	<b>0</b>
<b>FUNDING</b>										
General Fund	656,222	963,158	306,936	140,000	0	0	416,222	50,000	50,000	0
General Fund Bonds & Capital Lease	5,700,000	8,432,085	2,732,085	2,500,000	3,200,000	0	0	0	0	0
<b>Total Funding Source</b>	<b>6,356,222</b>	<b>9,395,243</b>	<b>3,039,021</b>	<b>2,640,000</b>	<b>3,200,000</b>	<b>0</b>	<b>416,222</b>	<b>50,000</b>	<b>50,000</b>	<b>0</b>



# Capital Project Summary

**Capital Project Number: MP1001**

**PS Project ID: C51003**

**Capital Project Title: Frederick Municipal Airport**

**Region:**

**Asset Category: Municipalities**

**Est Completion Date:**

**Asset Type: City of Frederick**

**Year Identified: 2010**

**Capital Project Status: Open**

## Capital Project Description:

Design and construct improvements to Frederick Municipal Airport as outlined in the Airport Master Plan, stage I & II improvements. Updated to reflect current cost and FAA funding. The Federal Government share is 90%, the State share is 5.0% and the County and City shares are both 2.5%. ONLY the county portion is being shown.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Appropriations	505,243	389,021				16,222	50,000	50,000	
<b>Total Cost:</b>	505,243	389,021				16,222	50,000	50,000	

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	423,158	306,936				16,222	50,000	50,000	
General Obligation Bonds	82,085	82,085							
<b>Total Cost:</b>	505,243	389,021				16,222	50,000	50,000	



# Capital Project Summary

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**Capital Project Number: MP1011**

**PS Project ID: C51009**

**Capital Project Title: Monocacy Blvd**

**Region:**

**Asset Category: Municipalities**

**Est Completion Date:**

**Asset Type: City of Frederick**

**Year Identified: 2015**

**Capital Project Status: Open**

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## Capital Project Description:

This project involves the widening and realignment of Monocacy Boulevard from Schifferstadt Boulevard to the Gas House Pike/Monocacy Boulevard intersection. It includes the rehabilitation of an existing bridge and the construction of a new bridge over the Monocacy River, and a traffic signal at Gas House Pike/Monocacy Blvd. ONLY the county portion is being shown.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Capital Appropriations	8,350,000	2,650,000	2,500,000	3,200,000					
<b>Total Cost:</b>	<b>8,350,000</b>	<b>2,650,000</b>	<b>2,500,000</b>	<b>3,200,000</b>					

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
General Obligation Bonds	8,350,000	2,650,000	2,500,000	3,200,000					
<b>Total Cost:</b>	<b>8,350,000</b>	<b>2,650,000</b>	<b>2,500,000</b>	<b>3,200,000</b>					



# Capital Project Summary

**Capital Project Number: MP1012**

**Capital Project Title: Yellow Springs Rd Bridge**

**Asset Category: Municipalities**

**Asset Type: City of Frederick**

**Capital Project Status: Open**

**PS Project ID:**

**Region: Frederick**

**Est Completion Date: 7/3/2020**

**Year Identified: 2015**

## Capital Project Description:

In September 2012 the City of Frederick annexed the Keller property located off Yellow Springs Road. Subsequently a Memorandum of Understanding (MOU) was executed for the transfer of approximately 1 mile of Yellow Springs Road to the City of Frederick. Included in this road segment is a structure over Little Tuscarora Creek. Per the MOU executed on October 31, 2013 the County will contribute 40% of the total cost of the design, construction and widening of the bridge, such 40% share not to exceed the sum of \$400,000. ONLY the county portion is being shown.

### Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Construction	400,000					400,000			
<b>Total Cost:</b>	400,000					400,000			

### Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	400,000					400,000			
<b>Total Cost:</b>	400,000					400,000			



# Capital Project Summary

**Capital Project Number: MP1101**

**PS Project ID:**

**Capital Project Title: Emmitsburg Pedestrian Safety Enhancements**

**Region: Thurmont**

**Asset Category: Municipalities**

**Est Completion Date: 9/29/2017**

**Asset Type: Town of Emmitsburg**

**Year Identified: 2016**

**Capital Project Status: Open**

## Capital Project Description:

The Town of Emmitsburg and Mount St. Mary's University have been working in collaboration with County and State officials and staff to develop a project to construct a sidewalk connecting the University to the Town of Emmitsburg. The project includes the construction of approximately 2.1 miles of sidewalk along Old Emmitsburg Road and South Seton Avenue (Business US 15) and associated grading and drainage improvements. The project team is seeking Federal Funding for the project, which requires a 20% local match. In order to apply for Federal Funding, the project has to be at least 30% design complete. Contingent upon execution of a Memorandum of Understanding (MOU) between the Town, University, State and County, design will begin early in FY2016. The MOU will define the role of each agency in the project as well as funding commitments. The current construction cost estimate for the project is \$2.1M. Frederick County's funding commitment is estimated at \$140,000 which is one third of the 20% local match. County funds will not be expended until the MOU is fully executed.

## Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Construction	140,000		140,000						
<b>Total Cost:</b>	140,000		140,000						

## Funding Schedule:

Categories	Project Total	Prior Budget	2017	2018	2019	2020	2021	2022	Costs After
Transfer From General Fund	140,000		140,000						
<b>Total Cost:</b>	140,000		140,000						

# APPENDICIES

## CAPITAL IMPROVEMENTS PROGRAM POLICIES

The Capital Improvement Program (CIP) is a schedule of public improvement projects planned by County Government to occur over a six-year period and includes project descriptions, estimated costs and sources of funding. The Capital Budget is the first year of the CIP and includes those projects for which funds have been appropriated. The following CIP policies are intended to guide funding decisions during the CIP review process:

1. The County will prepare and adopt a six-year Capital Improvements Program (CIP), update it annually, and make all capital improvements in accordance with the Capital Budget.
2. The County will attempt to budget as pay-go for capital improvements an amount equal to 7% of General Fund operating revenues. General Fund pay-go, impact fee pay-go, dedicated recordation taxes and building excise taxes will be considered in total in reaching this goal. Other capital funding will be through general obligation bonds, state and federal grants, enterprise fund resources and other sources.
3. The County will perform an annual review and update of the peer group numbers that will be incorporated into the review of the Debt Affordability standards.
4. The County will annually review and adopt Debt Affordability standards based on the original Debt Affordability Study developed in 1991. The standards shall be updated by the Budget Office annually and submitted to the County Executive for review.
5. A capital project in the CIP shall have the following characteristics:
  - a. The project will add to the government ' s public infrastructure.  
OR  
The project will result in a major repair of a fixed asset that significantly adds to or preserves the life of the original asset.  
OR  
The project will establish or enhance internal computer/program systems. This excludes routine expenses such as maintenance, license renewals, etc.
  - b. The project will have an individual project cost totaling \$100,000 or more. Projects of less than \$100,000 will only be permitted when required for State or Federal funding; and multiple projects in a single category, totaling \$100,000 or more, will also be considered if they meet all other characteristics.
  - c. Acquisition of land for future projects (land banking) will be eligible when it has been identified as a need in the six-year CIP, in the County Comprehensive Plan, or when it can be shown as necessary and based on recent growth trends or County policy decisions.

- d. Municipal projects will be considered if the project is not exclusively for municipal residents or if the project is a cooperative effort by municipal, county and/or state agencies.
6. Eligible capital costs will include Land Acquisition, Site Improvements, Planning, Design, Construction, Inspection/Overhead, IIT Equipment/Infrastructure, Equipment (including some start-up costs), and Project Management.
7. All capital costs listed in the CIP will be in current dollars and updated annually when submitted for inclusion in the CIP. Any change in project costs from the previously approved CIP must be justified in writing and include a new project summary form along with the reasons for the change in the project cost.
8. Construction of a project must be forecast within two years of completion of design work before funding for design will be approved, unless the nature of the project warrants otherwise. Some examples are large purchases of land easements, state concurrence on project documents, etc.
9. A project's construction bid process must be anticipated to start in the upcoming fiscal year in order for it to be funded in the Capital Budget.
10. When construction funds are approved and construction is not undertaken within two years, the project will be evaluated for possible dis-appropriation in the Capital Budget and re-appropriation in the revised construction year. Under §512 of the County Charter, a capital project is considered abandoned if 3 fiscal years elapse and the appropriation has not been expended or encumbered.
11. All capital projects will be reviewed and approved in accordance with Annotated Code of Maryland Land Use Article § 3-205 regarding consistency with County Plans. The Planning Commission will vote on the consistency after the County Executive Draft CIP is developed.
12. The following criteria will be used by the Capital Improvement Program Committee to evaluate the merits of each requested capital project:
  - a. The project fosters the "Community Concept" of the County Comprehensive Plan by directing capital investments to designated growth areas.
  - b. The project implements a component of an approved facility or master plan.
  - c. The project is consistent with and timed with other capital projects.
  - d. The project does not duplicate service areas of other public facilities or services.
  - e. The project will be implemented in a timely manner.

- f. The project reduces the cost of operations or energy consumption whenever possible.
  - g. The project provides for the health, safety, and welfare of the community.
- 13. Projects scheduled in previously approved CIP's should be considered when establishing priorities for future CIP programs.
- 14. It shall be the goal of each six-year CIP to provide sufficient funding to achieve a County-wide school capacity equal to 90% of the state-rated school capacity based on six-year projected enrollments system-wide.
- 15. The County will attempt to utilize funds collected through the school construction fee option (§ 1-20-62 of the Frederick County Code) for school improvements within the feeder pattern where the fee was collected.
- 16. The Division of Utilities and Solid Waste Management will be responsible for water, sewer and solid waste project execution. The Interagency Information Technologies Division will be responsible for the project execution of projects of a technology nature. The Division of Public Works will be responsible for project execution of all approved County capital projects except those listed above, those of the Frederick County Public Schools, Frederick Community College, municipalities, and those otherwise designated.
- 17. Following completion of a project, any and all remaining surplus of County capital funds will revert to an unallocated account until reallocated through the Annual Budget process or through an amendment to the Capital Budget as provided in §513 of the County Charter.
- 18. The County will attempt to match timing of bond issues with construction needs. Use of General Fund surplus to forward fund projects will be minimized to the extent possible. The feasibility of establishing lines-of-credit and other short-term borrowings will be investigated to control cash flow requirements in accordance with existing policies, procedures and legislation.
- 19. Any new capital project proposed outside of the annual CIP process may only be considered as an amendment to the capital budget, must comply with §513 of the County Charter, and must adhere to the characteristics of a capital project as stated in policy #5 and #6.

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## CAPITAL IMPROVEMENT PROGRAM FY2017-2022

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