



Washington County

M A R Y L A N D



Fiscal Year 2017 Ten Year Capital Improvement Plan

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Introduction



County Commissioners of Washington County



TERRY L. BAKER, a third-term County Commissioner, was first elected in 2006, and serves as President of the Board of County Commissioners. He is a 1973 graduate of Williamsport High School, a 1975 graduate of Hagerstown Community College and a 1978 graduate of Auburn University, with a Bachelor's degree in Education. Mr. Baker retired in 2015 from the position of Washington County Students Trades Coordinator for the Washington County Technical High School after being an educator for 34 years. Prior to being elected a County Commissioner he served from 2002 to 2004 as a member of the Council for the municipality of Clear Spring, Maryland, and as Assistant Mayor for such municipality from 2004 to 2006.



JOHN F. BARR, a third-term County Commissioner, was first elected in 2006. He was raised in Boonsboro, Maryland, and is a Master Electrician in five states. In high school, Mr. Barr worked for his father as a field electrician at M/L Electric, Inc., which began in 1927. In 1979 he formed the management team overseeing the service department. In 1984 Mr. Barr bought the company from his father and changed the name to Ellsworth Electric, Inc. He has built the company from 75 to 150 employees. Mr. Barr is active in various service organizations and community projects. He currently serves as President of the Maryland Association of Counties.



JEFFREY A. "JEFF" CLINE, a second-term County Commissioner, serves as Vice President of the Board of County Commissioners and is a Williamsport, Maryland, resident. He is a graduate of Williamsport High School and Hagerstown Community College, and is currently seeking a Bachelor of Science degree in Organizational Leadership. Mr. Cline has experience a realtor since 2003. He graduated from the Maryland Association of Realtors' 2008 Leadership Academy and received the Graduate of Realtor Institute (GRI) designation. Mr. Cline served on the Williamsport Town Council from 2005 to 2009.



LEROY E. MYERS, a first-term County Commissioner, was born in Washington County and has lived in the Clear Spring, Maryland, area his entire life. He is a three-term Maryland State Delegate serving District IC from 2003-2014. He graduated from Clear Spring High School and attended Hagerstown Community College for two years. Mr. Myers is the owner and president of Myers Building Systems, Inc., a general contracting firm.



WAYNE K. KEEFER, a first-term County Commissioner, was appointed to fill a vacancy on the Board of County Commissioners on March 25, 2016 by Maryland Governor Lawrence J Hogan, Jr. and assumed office on April 5, 2016. He is a lifelong resident of Hancock, Maryland, and a 2004 graduate of Hancock Middle-Senior High School. Mr. Keefer holds an A.S. degree in Management from Hagerstown Community College, a B.S. degree in Business Administration and an M.B.A. from Frostburg State University. He has over a decade of experience as a commercial banker and is currently a small business owner and an adjunct instructor with Frostburg State University and the University System of Maryland at Hagerstown. He is active in the community including the Hancock Chamber of Commerce and Rural Children's Fund.

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Vision and Mission Statement

Vision Statement:

The vision of Washington County Government is to become the regional leader in providing and coordinating efficient and effective public services in an open and cooperative manner.

Mission Statement (Long-Term Goals):

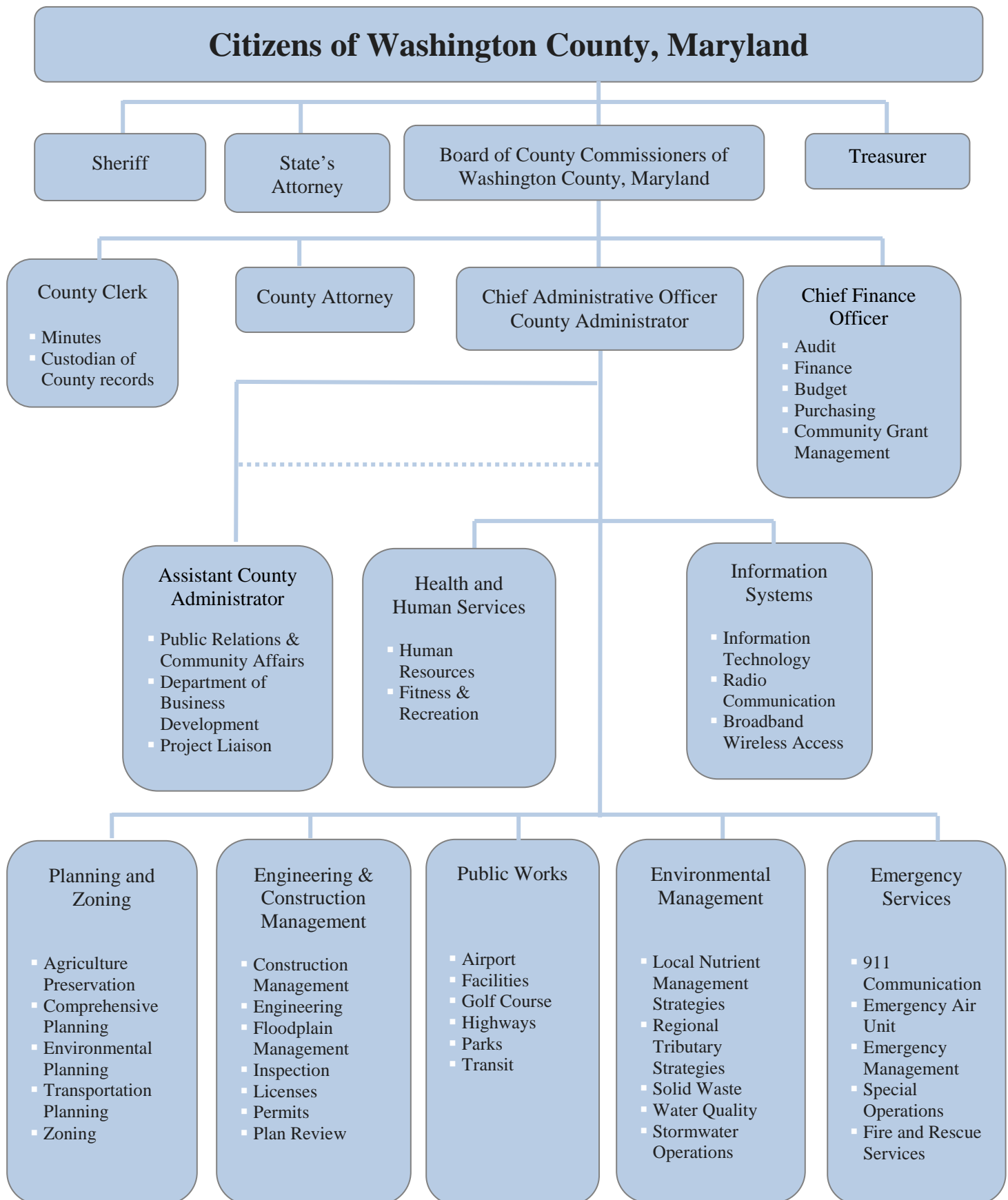
Supporting and strengthening individual and community self-reliance and responsibility;

Promoting education, economic opportunities, public health, safety, and welfare;

Protecting the environment and cultural resources we share and;

Planning for future urbanization and a culturally diverse population.

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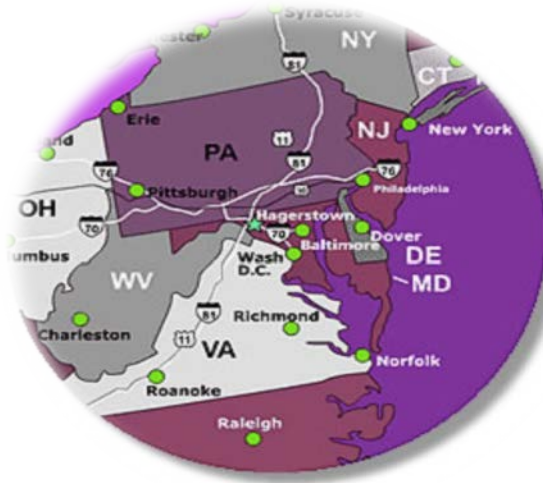


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Community Profile

Location

Washington County is situated in northwestern Maryland, bordered by Pennsylvania to the north and West Virginia to the south. It is bordered on the east by Frederick County, Maryland and on the west by Allegany County, Maryland. Washington County is approximately 460 square miles in area. The County Seat, Hagerstown, is 70 miles northwest of Washington, D.C. Two major highways, Interstate 81 – running north and south, and Interstate 70 – running east and west, cross within the County's borders.



The major part of Washington County is fertile valley with rolling terrain. The lowland belt known as the Hagerstown Valley, which lies between the Blue Ridge Mountains to the west and the Appalachian ridges to the east, is an extension of the Shenandoah Valley of Virginia.

Washington County is a great place, not only for locating a business, but also for living and raising a family. The rural, friendly, community environment offers a taste of traditional values – and the close proximity to Baltimore and Washington D.C. offers access to a metropolitan culture and lifestyle. It's the best of both worlds.

Culture and Recreation

Founded in 1776, Washington County was the first county in the United States to be named for the then General George Washington. The history of Washington County is exhibited at 4 national parks, 7 state parks, 14 county parks, numerous monuments and more than 35 museums that tell America's story spanning three centuries.

Some of Washington County's major local attractions include:



- ❖ Antietam National Battle field – the site of the one of the most famous Civil War battles
- ❖ Fort Frederick State Park – a fort built in 1756 for use during the French and Indian War.
- ❖ Appalachian Trail National Scenic Trail – the trail in Maryland follows a 40 mile route along the backbone of South Mountain (a north-side ridge that extends from Pennsylvania to the Potomac River).
- ❖ C&O Canal National Historical Park – for nearly 100 years the canal served as a waterway to transport products and it now provides a place to recreate and enjoy nature.

- ❖ Maryland Symphony Orchestra – western Maryland’s only professional orchestra.
- ❖ Hagerstown Speedway – one of the fastest and safest dirt tracks in the United States.
- ❖ Hagerstown Suns – a minor South Atlantic League Class A baseball team affiliated with the Washington Nationals.
- ❖ Washington County Museum of Fine Arts – with a permanent collection of over 6,000 works of art, as well as changing exhibitions.
- ❖ The Maryland Theatre – built in 1915 and home of the Maryland Symphony Orchestra and the Miss Maryland Pageant.

Hagerstown was founded by the German immigrant Jonathan Hager who was a volunteer Captain of Scouts during the French and Indian War. Located in the center of the Great Valley in Western Central Maryland, Hagerstown was at the Crossroads of the Civil War. The Valley provided a natural corridor for refugee and troop movements between Virginia and Pennsylvania. As a regional crossroads town just north of the Potomac River, Hagerstown was a favorite staging area for military leaders traversing the region.



The Maryland Theatre

A revitalized Arts & Entertainment District in downtown Hagerstown complements shopping, historical sites and museums in Washington County. Residents and visitors discover a wonderful collection of beautiful renovated retail shops, restaurants, and condominiums all within walking distance of cultural attractions. Hagerstown hosts several annual festivals downtown, most notably the Western Maryland Blues Fest, Augustoberfest, and the Alsatia Mummer’s Day Parade.

Form of Government

The County is a body corporate and politic, which performs all local governmental functions in Washington County except those performed by the nine incorporated municipalities within Washington County. The executive offices of the County are located at 100 West Washington Street, Hagerstown, Maryland 21740. The County’s central telephone number is (240)-313-2210 and its website is www.washco-md.net.

Under the Code of the Public Local Laws of Washington County (2007 Edition), as amended, being Article 22 of the Code of Public Local Laws of Maryland (the "County Code"), both the executive and legislative functions of the County are vested in the elected, five-member Board of County Commissioners of Washington County (the “Board”). The Board may only exercise such powers as are conferred upon it by the General Assembly of Maryland, including authorization to issue debt to finance its capital projects. Commissioners are elected on a countywide basis and serve four-year terms.

Each member of the Board has one vote and a simple majority of the Board is sufficient to take action subject to the authority vested in the Board by the County Code. Emergency action also requires a simple majority vote. The Board elects its own officers. The General Assembly of Maryland must authorize powers not specifically authorized by the County Code.

As authorized by the County Code, the County Commissioners appoint a County Administrator. The County Administrator is selected on the basis of his or her executive and administrative abilities, including his or her knowledge and experience in public administration. The County Administrator is responsible for the proper administration of the Board’s affairs. He is charged with the supervision of the departments and agencies of the County, and is responsible for the day-to-day operations of the County government in conformity with public local laws and other laws applying to the County.

County financial matters are administered in part through the office of the Treasurer of Washington County. The County Code establishes the elective office of County Treasurer. The County Treasurer is constituted the collector of County and State taxes, charges and assessments and is charged with the enforcement of collection of taxes in the manner provided by law.

As authorized by the County Code, the Board appoints the Chief Financial Officer (CFO) on the basis of his or her experience in financial administration. The CFO is charged with assisting the Board in the preparation and administration of the County budgets and other accounting and fiscal matters as the Board deems necessary. In addition, the CFO is responsible for the study

of the organization, methods and procedures of each office, department, board, commission, institution, and agency of County government.

Services

Transportation

A variety of transportation avenues are available in Washington County. Hagerstown Regional Airport (HGR) is a Part 139 Facility which provides daily scheduled commercial service to Dulles International Airport and Pittsburgh International Airport via Sun Air Express, twice weekly service to Orlando Sanford International and twice weekly service to St. Pete-Clearwater International Airport on Allegiant. The airfield also offers fixed base operation services to general aviation, corporate and military aircraft. There are 15 businesses offering clients a variety of aviation services for all types of aircraft. Approximately 1,400 people are employed at the airport in various aviation-related businesses. In addition, Dulles International, Baltimore/Washington Thurgood Marshall International, and Ronald Reagan Washington National airports are located within 70 miles of Hagerstown.

Other transportation outlets include auto rental services, County bus service, commercial bus lines, taxi, freight common carriers, and limousine service. The main lines of CSX and Norfolk Southern provide shipment to anywhere on the Atlantic Seaboard.

Hospital and Medical Care

Meritus Health, located in Hagerstown, Maryland, is the largest healthcare provider in Western Maryland. Its programs span the continuum of healthcare, ranging from inpatient care to occupational health services to physician practices and outpatient care.

Meritus Medical Center, which opened in 2010, is an acute care hospital with 243 licensed beds in single patient rooms. Services offered include a regional trauma center, a cardiac catheterization lab, and a certified primary stroke center. State-of-the-art medical technologies at Meritus Medical Center include advanced magnetic resonance imaging (MRI), single-photo-emission computed tomography (SPECT) scanners, and cardiac interventions. Hospital services that address outpatient needs include the John R. Marsh Cancer Center, Total Rehab Care, the Center for Breast Health, and Meritus Cancer Specialists.

Meritus Health provides complementary branches of care including primary care physicians' practices, specialists in disciplines ranging from obstetrics to cardiology and satellite services including diagnostics and durable medical equipment.

The Washington County Health Department, which provides various health services to the citizens of Washington County, employs a total of 183 full-time and part-time personnel in five divisions.

Other medical care facilities include the Environmental Health Division of the Health Department, the George W. Comstock Center for Public Health Research and Prevention and the Western Maryland Center, a State – owned chronic care facility.

Safety

The Washington County Sheriff's Office, the Maryland State Police, and municipal police agencies provide police protection in Washington County. The Sheriff's Office has 99 sworn personnel and 92 radio dispatched vehicles. The Sheriff's Office is responsible for the operation of the Detention Center, which has a capacity of 450 inmates. The State Police has 36 troopers assigned to the local barrack, which is located just south of Hagerstown. The Hagerstown Police Department has a full-time force of 106 officers. The Hancock Police Department employs three full-time and two part-time officers. In addition, the Smithsburg Police Department employs four officers and the Boonsboro Police Department employs five police officers.

The County's Division of Emergency Services ("DES") oversees Emergency Communication/911, Emergency Management, Fire Department Special Operations, Fire Department Support Services, and the Emergency Medical Services

Operations Program. DES is led by a full-time career Director and five full-time department heads who oversee the daily operational components of Emergency Services in Washington County. The division has 86 full-time and part-time personnel working directly within the division and approximately 40 volunteers who provide dedicated service to the citizens of Washington County.

Environmental Management

The Division of Environmental Management (“DEM”), which includes the Department of Water Quality, the Environmental Engineering Department, the Solid Waste Department, the Stormwater Management Department and the Watershed Department, was created in fiscal year 2007. The State and federal environmental initiatives as they pertain to water, wastewater, stormwater, solid waste and nutrients are all jointly related. DEM is responsible for integrating the regulations and applying them to the operations of these departments.

The Washington County Solid Waste Department is responsible for a solid waste disposal system that protects the environment and public health.

The County currently provides water and/or wastewater services to nearly all of the immediate densely populated area surrounding the City of Hagerstown (except the Dual Highway corridor), the areas of Highfield, Elk Ridge, Sandy Hook, and the towns of Sharpsburg and Smithsburg.

Department of Business Development

The Washington County Department of Business Development (the “DBD”) is dedicated to expanding economic opportunities for the citizens of Washington County. It works to promote Washington County as a place of business and improve the overall business climate of the community.

The Washington County Economic Development Commission Board of Directors (the “EDC”) is comprised of 12 unpaid volunteers and seven *ex-officio* members. As representatives of the local business community, the EDC is responsible for evaluating, recommending, and implementing policies affecting the County’s ability to attract, nurture, and sustain employment, and to further promote economic growth and change in a managed environment.

The DBD currently has five full-time employees to conduct the day-to-day operations of the office. The staff works to fulfill the strategic priorities that are put in place by the EDC.

Demographic Information

Population

<u>Year</u>	<u>County Total</u>
1980	113,086
1990	121,393
2000	131,923
2010	147,430
2015	149,573
2020 projected	160,300
2025 projected	169,950
2030 projected	178,900

Sources: U.S. Bureau of the Census 1980, 1990, 2000, 2011; Projections by the Maryland Department of Planning 2015.

County Income

Per Capita Income	\$	35,257
Median Household Income	\$	52,857
Average Household Income	\$	68,377

Sources: Washington County Department of Business Development

Housing

2015 Median Selling Price

Washington County	\$	157,263
Maryland	\$	261,002

Source: Maryland Association of Realtors.

Households

Number of Households	55,769
Number of Family Households	37,611
Number of Non-family Households	18,158

Source: U.S. Bureau of the Census, 2010-2014 American Community Survey 2015.

Population Statistics

Age:	19 & under	24.70%
	20-64 (workforce age)	60.40%
	65 & older	14.90%
	Median Age	40.4
Gender:	Male	50.90%
	Female	49.10%
Race:	White	84.30%
	Black	10.40%
	Other	5.30%

Source: U.S. Bureau of the Census, 2010-2014 American Community Survey 2015.

Education Facilities in Washington County

Higher Education:

Kaplan University - Hagerstown
Hagerstown Community College
University System of MD at Hagerstown

Primary Education:

26 Elementary Schools
7 Middle Schools
8 Senior High Schools
1 Middle/Senior High School
1 Technical High School
1 Evening High School
1 Outdoor Education
1 Special Education
Pupil/Teacher Ratio: 22:1
Public Enrollment: 22,303
39 Private Schools

Source: Washington County Board of Education (2015)

County Water Quality Systems

	<u>Total # of Services</u>
Full Service Water	1,336
Full Service Sewer	6,995
Collection Service Sewer	3,667
Total	11,998

Source: Washington County Department of Budget and Finance

County Building Permits (000s)

	<u>Number</u>	<u>Value</u>
Residential New	202	\$52,305
Other Permits	2,065	\$97,055
Total	2,267	\$149,360

Source: Washington County Department of Permitting

County Employment Statistics

Civilian Labor Force	75,955
Employed	71,757
Unemployed	4,198
Unemployment Rate	5.53%
State Average	5.10%

Source: MD Department of Labor, Licensing & Regulation for 2016.

Top 15 Employers in Washington County

	<u>Employer</u>	<u>Employment</u>
1	Washington County Public Schools	3,100
2	Meritus Health, Inc.	2,740
3	State of Maryland	2,385
4	Citi	2,300
5	First Data	2,183
6	Washington County Government	1,352
7	Volvo Group	1,300
8	FedEx Ground	900
9	Hagerstown Community College	890
10	Bowman Group, LLP	745
11	Federal Government	567
12	Merkle Response Services, Inc.	545
13	City of Hagerstown	486
14	Brook Lane Health Services	485
15	Dot Foods, Inc.	441

Source: Washington County Department of Business Development 2015.

County Business Patterns

<u>Industry</u>	<u>Total # Establishments</u>
Services	1,218
Retail Trade	642
Other	400
Construction	405
Finance, Insurance, Real Estate	330
Transportation/Warehousing	155
Wholesale Trade	160
Manufacturing	125
Information	54
Utilities	5
Mining	2
Agricultural	1
Total	3,497

Source: U.S. Bureau of the Census 2010, (updated 2015) County Business Patterns

**Top 20 Largest Taxpayers in Washington County
as of June 30, 2015
Ranked by Assessed Value**

	<u>Taxpayer</u>	<u>Assessed Value</u>
1	Outlet Village of Hagerstown	\$ 105,577,730
2	PR Valley Limited Ptsp	97,569,340
3	FedEx Ground Package System Inc.	83,602,596
4	Potomac Edison	81,700,340
5	Bowman Group	60,397,111
6	Washington Real Estate	59,640,107
7	254 Hagerstown/Citigroup/Citicorp	52,545,390
8	Staples of Maryland LLC	47,815,823
9	IIT Hagerstwon Dist. Center	47,175,233
10	Liberty Property Limited	44,447,600
11	Walmart Stores/Wal-Mart R.E./Sam's R.E./Sam's East	44,432,430
12	Mack Trucks Inc.	39,111,480
13	Verizon-Maryland	36,020,090
14	2007 East Greencastle Pike	34,360,000
15	Lowe's Home Centers Inc.	33,668,047
16	Meritus Health Inc	31,591,486
17	GP Hagerstown Limited Ptsp	30,035,200
18	FR Hagerstown LLC	29,496,467
19	Tractor Supply Company	28,390,073
20	ARCP MT Hagerstown	27,624,900

Source: Washington County Treasurer's Office

The information set forth above was compiled from tax rolls on which the names and owners are not always recorded in the same way.

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Capital Improvement Plan Development

Capital Improvement Program

Washington County government is responsible for providing infrastructure improvements to its citizens. To provide for these improvements on a continuing basis, the Board of County Commissioners established a Capital Improvement Program that forecasts the future needs and priorities of the community. Through sound planning and programming of capital projects, the County can provide many improvements while utilizing the prescribed amount of funds available for this purpose.

A major purpose of the Capital Improvement Program is to provide a means for coordinating and consolidating all departmental and agency project requests into one document. The projects can then be examined and prioritized based on established criteria that includes County plans and policies.

A Ten-Year Capital Improvement Plan is developed each fiscal year and includes scheduling and financing of future community facilities such as public buildings, roads, bridges, parks, water and sewer projects, and educational facilities. The plan is flexible and covers ten years with the first year being the Capital Improvement Budget. Funds for each project are allocated from Federal, State, and local sources by the County Commissioners.

The Capital Improvement Plan not only accounts for the acquisition, expansion, and rehabilitation of infrastructure and other capital assets, but it also incorporates the following basic underlying principles of the County:

- Capital projects are targeted to support the goals of the Comprehensive Plan and other County functional plans.
- Capital investments are made for economic development.
- Existing assets are preserved and maintained to ensure continued service.
- External funding possibilities are considered when reviewing and prioritizing projects.
- Intergovernmental funding is sought for regional projects.
- Debt is used carefully and managed in accordance with the goals and objectives of County policies.

The Ten-Year Capital Improvement Plan is updated on an annual basis for both project costs and funding sources. Along with the development of the Capital Improvement Plan, an annual debt affordability analysis is performed to evaluate the effect of debt service costs on operating budgets and to utilize long-term financial planning. As part of the annual review process, certain projects are closed out due to completion and others are added as the re-sequencing of project priorities occur.

Capital Improvement Plan Process

Capital Improvement Plan development begins in the winter after the completion of the debt affordability analysis. The Capital Improvement Program provides a comprehensive approach to planning and impacts all facets of County operations. The County Administrator, the Chief Financial Officer, the Planning Director, the Director of Public Works, and the Director of Engineering and Construction comprise the Capital Improvement Plan Committee, ("CIP Committee"). From the time the Capital Improvement Plan's initial annual review begins in October through its adoption in May of each year, there is constant interaction between departments, the CIP Committee, and the elected officials. This effort is characterized by cooperation and reflects a common goal of ensuring that the Capital Improvement Plan meets the objectives of the County and remains affordable and achievable. The CIP Committee reviews the project submissions to ensure:

- The plans are properly coordinated with other projects, entities, etc.;
- Long-term operating impacts are included in estimates (including staffing, utility, maintenance, and debt);
- Timeframes for construction activity and cash flow are realistic;
- The budget and appropriate funding sources are adequate; and
- Projects are prioritized based on County goals, department priorities, and anticipated funding sources.

The Capital Improvement Plan is reviewed in conjunction with the debt affordability analysis and revenue projections, inclusive of rate analysis, in order to determine funding availability. A financial analysis of funding sources and project costs is conducted for all proposed capital improvement projects. It is the CIP Committee's responsibility to review all requests that County departments and agencies submit. All projects are ranked based on established criteria for priority ranking. Considering current and future needs, as developed in the ten-year plan, available funding sources, and the results of the priority ranking process, the CIP Committee determines which capital projects best meet established criteria for the current fiscal year Capital Improvement Budget and the nine-year forecast.

The Board of County Commissioners reviews the Ten-Year Capital Improvement Plan in regular public working sessions and at the public hearing. Following this review and before the end of the fiscal year, the Board formally approves and adopts the Ten-Year Capital Improvement Plan for the established projects.

Components of the Capital Program

Capital Project Definition

Capital Projects are included in the Capital Improvement Plan when the project supports or improves infrastructure needs and/or the productive capacity of the County. Projects should have a useful life greater than five years and an estimated cost of \$10,000 or more, and should also meet one or more of the following criteria:

- Projects having restricted funding sources, including grants, that require them to be included in the Capital Improvement Budget;
- Systematic acquisitions over an extended time period to complete implementation of a major functional or operating system;
- Rehabilitation or replacement projects of governmental or agency facilities;
- Projects that require bond financing because of significant costs associated with acquisition or construction of the project; and
- Planning and feasibility studies that support the acquisition, construction, or improvement of the items listed above. (These are not required to meet the useful life test).

Capital assets include land, improvements to land, easements, buildings, building improvements, vehicles, machinery, large equipment, infrastructure, and all other tangible and intangible assets that are used in operations. Assets not meeting the criteria above are budgeted as capital outlay in the Operating Budget.

Capital Project Priority Ranking System

During the review process the CIP Committee prioritizes projects based on the County's broad goals, department priorities, anticipated funding sources, and the priority-ranking matrix. The priority-ranking matrix is composed of 14 scored and weighted criteria, which is the basis for assigning projects into one of the five priority-ranking categories.

The 14 scored and weighted ranking criteria used by Washington County are:

1. Legal Mandates – This criterion assesses the risk with legal issues required by Federal or State statute, court order, or regulation, or a project that moves the County into further compliance with such mandates.
2. Public Health and Safety – This criterion includes health related impacts such as increases in traffic accidents, injuries, and deaths.
3. Environmental Impact – This criterion evaluates the environmental related impact on items such as water quality, flood control, air quality, contamination, etc.

4. **Conformity to County Commissioners Goals and Plans** – This allows for the evaluation of the project in relationship to the goals and plans of the Commissioners and/or the Comprehensive Plan or other approved plans by the County.
5. **Conformity to Agency, Department and Jurisdictional Plans** – This allows for the evaluation of the project in relationship to written plans of County agencies, departments, and jurisdictions.
6. **Community Support** – This criterion refers to interest group advocacy and/or opposition and conformity to County master and strategic plans.
7. **Project Cost** – This criterion considers the total cost of constructing or installing the proposed work. The higher the cost the lower the weight. However, the forced score should not be considered adversely with respect to an individual project as it simply identifies the financial issues within the Capital Improvement Plan Budget. A project will rank high if warranted by other evaluation criteria when scored if appropriate.
8. **Funding** – This criterion evaluates available funding sources to be contributed towards the proposed project, taking into consideration if the project is continuing from the prior year (in which funding would be required), if there is proposed self-supporting funds, or if significant outside funding sources are available.
9. **Operating Budget Impact: Cost/Benefit** – This criterion reflects other costs relative to the proposed project, including operation and maintenance, start-up costs, and personnel, as well as cost savings and potential revenues generated by the completed project.
10. **Preservation of Facility** – Measures the possible effect of deferring the project, such as complete replacement of facility or equipment, major repair, normal repair costs if not replaced or added cost for new facility.
11. **Project Life** – This criterion is used to rank the project based on life expectancy and projected maintenance cost. A higher value is placed on longer-term infrastructure assets.
12. **Economic Impact** – Measures the impact such as property value, future tax base, added jobs, income to citizens, changes in business income, and stabilization of neighborhoods. Such impacts may apply more to capital projects related to growth and expansion than to infrastructure maintenance, although deteriorating structures can adversely affect business.
13. **Recreational, Cultural or Aesthetic Value** – A catch-all criteria for other significant quality-of-life related impacts that include community appearance, recreational opportunities, and cultural improvements.
14. **Percent of Population Benefiting** – Estimates the number of persons likely to be affected by the project and nature of the impact.

After the projects are scored and weighted using the above criteria, the projects are then categorized based on the score into Priority 1 through Priority 5. The priority category definitions are as follows:

- | | |
|------------|---|
| Priority 1 | Projects needed to comply with a court order or legislative mandate, and/or projects that are critical to the health, safety, and general welfare of County citizens. |
| Priority 2 | Projects essential to the general welfare of the community, operating or maintaining of a physical facility, but not critical relative to other projects. |
| Priority 3 | Projects that provide a public operational improvement or are important in relation to County financial capabilities, needs, or other program requirements. |
| Priority 4 | Projects that provide for necessary maintenance or replacement, but where deferral will not result in significantly increased cost to the County. |

- Priority 5 Projects that conflict with the master plan and/or projects for which there are concerns related to serious need, cost, justification, or timing.

After all proposed projects are prioritized using these criteria, the CIP Committee (1) reviews the project ranking report for reasonableness; (2) checks for any projects that appear out of order; (3) determines if there are any linkages between projects; (4) evaluates if there are any advantages to having projects done concurrently; (5) ascertains if there are any projects dependent on one another; and (6) reviews the project's impact on the operating budget. Adjustments to the final ranking may be necessary based on this extensive Capital Improvement Plan prioritization process.

The CIP Committee provides an enterprise-wide view and prioritizes proposed projects while balancing project requests against known County objectives. After their review is complete, the CIP Committee presents the Ten-Year Capital Improvement Plan to the Board of County Commissioners. The County Commissioners review the recommended Ten-Year Capital Improvement Plan during budget workshops and at a public hearing prior to budget adoption.

Program priorities, long-term service needs, and planning – like multidimensional ranking systems – complement rather than replace, the judgment that County officials must exercise in ranking requests for capital projects and acquisitions and developing the Capital Improvement Plan and Capital Budget.

Capital Improvement Plan Funding Sources

Funding sources in the Capital Improvement Plan are budgeted in each fiscal year in which they will be received. All potential funding sources are considered when developing the Capital Improvement Plan to ensure that projects are funded with appropriate revenue streams. Some projects are funded with project-specific revenues that benefit particular projects and/or users, as is the case with development fees. The other information considered when funding the Capital Improvement Plan are the results of the Debt Affordability Analysis, cash flow requirements of each project, and the financial costs associated with each funding source. Following are descriptions of the funding sources for the Capital Improvement Budget:

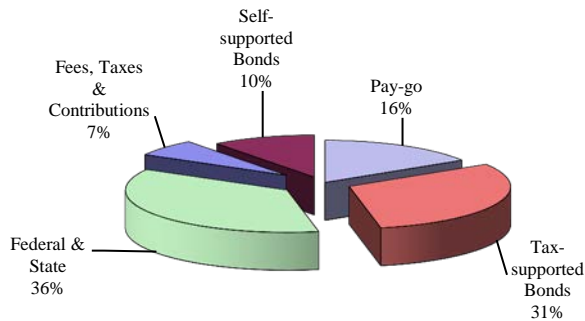
- Tax-Supported Bonds are General Obligation Bonds secured by the full faith and credit of the issuer. General Obligation Bonds issued by the County are secured by a pledge of the County's property taxing power, and must be authorized by legislative authority. The amount to be issued in this fiscal year is based on the County's debt affordability guidelines, debt policies, and future project costs.
- Self-Supported Bonds are issued for enterprise funds and the debt service is paid from user fees.
- Pay-Go Funds represent cash contributions from various operating funds for specific capital projects without a dedicated funding source. The fiscal year 2017 amount is based on available cash resources and was determined by maximizing the contribution level to best match funding strategies, useful lives, benefit of assets, and cost.
- Federal and State Funds are for specific projects and are restrictive in nature. These funds are inconsistent from year-to-year and are not used as a base revenue stream.
- Fees and Taxes is the other major funding source. Excise tax is assessed for residential construction at \$1 per sq foot (SF), and \$.50 SF for additions to residential properties. Excise tax for nonresidential non-retail is assessed at \$1 SF and nonresidential retail at \$1 SF for the first 15,000 SF and \$3 SF thereafter. Budgeted excise tax is based on projected growth and development. Transfer tax is charged on recorded real property transfers in the County at a rate of .5%. Transfer tax revenue for fiscal year 2017 is based on projected home sales and recordation activity. In addition, the County has an Adequate Public Facilities Ordinance Fee and is used to generate revenue so that public facilities and services needed to support new development will be available concurrently with the impacts of the new developments.

Fiscal Year 2017 Overview

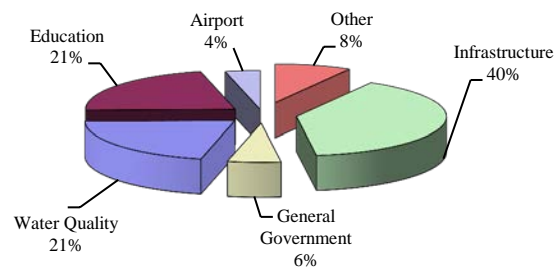
FY17 Capital Improvement Budget Overview

A graphic illustration of planned capital project distribution and funding sources for fiscal year 2017 is shown below. The fiscal year 2017 Capital Improvement Budget is funded mainly from: tax-supported and self-supported bonds, pay-go funds, Federal and State funds, and developer based fees.

Funding Sources



Capital Project Distribution



Operating Impact of Capital Improvement Projects

The operating impact of capital projects are reviewed and considered during the Capital Improvement Plan review process. Estimated new revenues and or operational efficiency savings associated with projects are also taken into consideration. The operating costs of the projects are identified and considered during the ranking evaluation. The operating costs of projects to be completed and in-service during the budget year are identified and justified as part of the operating budget process. Additions or eliminations of personnel, significant start-up costs, as well as operation and maintenance costs of the new facilities are included in the operating budget. These conservative operating cost estimates include: personnel, equipment maintenance, building maintenance, and other major costs anticipated at the completion of the project. An important consideration in the County's Capital Improvement Budget is the fiscal impact on the Operating Budget due to the additional debt service cost. Total debt service cost for fiscal 2017 is approximately \$20.9 million.

The ten-year operating budget impact for major projects approved in the fiscal year 2017 Capital Budget are presented in the project detail schedule located in the next section.

Debt Affordability Analysis

One of the major sources of funding for capital projects is debt. Debt is issued to match the cash flow requirements of the Capital Improvement Plan, while considering the affect of the tax burden on the citizens. Therefore, along with the development of the Capital Improvement Plan, an annual debt affordability analysis is performed to evaluate the affect of debt service costs on operating budgets and to utilize long-term financial planning.

The key factor in the issuance of debt is the understanding that effective debt management is critical to the overall financial management of the County. Therefore, the issuance of debt is done in conformance with the County's Debt Policy, which is an integral component of the County's financial management program. Accordingly, critical to sound financial and debt management is the continuing evaluation of the County's ability to afford and plan for the issuance of debt. In this regard the County has instituted a self-imposed requirement that an annual debt affordability analysis be performed. The analysis provides a method by which the County's debt position can be evaluated, tested for stress and affordability, and compared to other jurisdictions, "Peer Group", that are considered comparable to the County. The analysis provides the County Commissioners and citizens with a way to assess the impact of bond issuance and allows for informed decisions regarding financing proposals and capital spending priorities.

The County undertakes the debt capacity analysis on an annual basis in conjunction with the issuance of bonds and the formulation of the long-range Capital Improvement Plan. This comprehensive and routine analysis of debt capacity provides assurance that the amount of debt issued by the County is affordable. It also ensures that an appropriate balance is maintained between the County's capital needs and its ability to pay for them.

To determine the County's debt affordability, a peer group was established for comparison. The Peer Group consists of counties that share similar characteristics in various areas, including but not limited to, population, region, bond rating, and budget thresholds. Also, our sample of counties was based on size and income indicators, such as per capita income, property values, access to interstate highways, and revenue generation.

The Peer Group contains nine other Maryland counties: Howard, Frederick, Harford, Carroll, Charles, St. Mary's, Cecil, Wicomico, and Calvert.

As with any business, including County government, it is important to develop strategic objectives, including prudent borrowing limits. The debt ratios used by the County are relevant benchmarks used to measure its debt position. Establishing an acceptable range for the debt ratios has allowed the County to continually monitor its debt position and provide a mechanism for calculating debt capacity. The information provided by the ratios assists the County in the capital budgeting decision process, including prioritizing capital spending.

Measures of debt affordability are sensitive as they are impacted by the amount of outstanding debt and changes in both demographic and economic factors. Changes in demographic factors such as population growth and personal income affect debt ratios. Economic cycles can have major impacts both positive and negative on targeted ratios and debt capacity. This volatility demonstrates the need for assessing changes in projected debt capacity on an annual basis.

Decisions regarding the use of debt is based on a number of factors including, but not limited to, the long-term needs of the County and the amount of resources available to repay the debt. Flexibility is required to enable the County's management team to respond to unforeseen emergencies or opportunities in the operational budget. In order to provide for that flexibility, the most important ratio - Debt Service as a Percent of Revenue - is included in the analysis. Comparing debt ratios of the Peer Group and national medians is useful in evaluating the County's debt position. Evaluating the change in ranking over time also indicates a strengthening or weakening of the County's debt position relative to the Peer Group and to national averages. Following is a five-year comparison of the County's debt ratios for the tax-supported debt portion.

Ratio and Peer Group Median Comparisons								
Fiscal Year	Debt Per Capita		Debt as a Percent of FMV		Debt Service as a % of General Fund Revenue		Debt Service per Capita as a % of Income Per Capita	
	County Amount	Peer Group Median	County Ratio	Peer Group Median	County Ratio	Peer Group Median	County Ratio	Peer Group Median
2012	871	1,573	1.05%	1.50%	6.87%	8.77%	.24%	.38%
2013	883	1,549	1.08%	1.52%	7.08%	8.48%	.25%	.33%
2014	908	1,536	1.14%	1.68%	6.97%	8.41%	.23%	.33%
2015	917	1,496	1.17%	1.68%	7.04%	8.96%	.24%	.34%
2016 estimated	930	1,496	1.18%	1.68%	6.67%	8.96%	.22%	.34%
Policy		1,500		1.50%		8.00%		0.50%

When the County compares its debt ratios to its peer group and national medians, it provides a snapshot of our debt position at a single point in time. However, to fully understand the County's debt position, it is important to evaluate ratios over a long period of time so that trends can be ascertained, analyzed, and evaluated.

In completing the debt affordability analysis the estimated debt capacity ceiling is established and policy guidelines are applied to the debt capacity calculations. The ratio of Debt Service as a Percentage of Revenue is considered the most critical criteria in establishing debt capacity, in part, because the County controls both components of the ratio and the impact of the change is most pronounced in the operating budget and potentially the tax burden carried by the citizens.

Projections are based on net tax-supported debt currently outstanding plus average debt that is anticipated to be issued over the next 20 years. The projections are intended only to provide a method for assessing the impact of issuing more debt. The County's debt affordability analysis is designed to: ensure that anticipated future debt is manageable from a fiscal and budgetary perspective; meet peer group ratio targets and avoid negative treatment by the rating agencies in the form of a rating downgrade; and keep borrowing costs to a minimum. The following table illustrates the impact of long-term debt issuance as it relates to various Peer Group targets that the County monitors.

Debt Capacity Analysis – Effect of Debt Issuance on Debt Ratios								
Fiscal Year	Debt Per Capita		Debt as a Percent of FMV		Debt Service as a % of General Fund Revenue		Debt Service Per Capita as a % of Income Per Capita	
	Projected	Peer Group Median	Projected	Peer Group Median	Projected	Peer Group Median	Projected	Peer Group Median
2017	960	1,496	1.21%	1.68%	7.07%	8.96%	.23%	.34%
2018	988	1,496	1.24%	1.68%	7.22%	8.96%	.24%	.34%
2019	1,019	1,496	1.26%	1.68%	6.91%	8.96%	.23%	.34%
2020	1,042	1,496	1.28%	1.68%	7.37%	8.96%	.25%	.34%
2021	1,061	1,496	1.29%	1.68%	7.56%	8.96%	.25%	.34%
2022	1,081	1,496	1.31%	1.68%	7.36%	8.96%	.25%	.34%
2023	1,097	1,496	1.32%	1.68%	7.50%	8.96%	.25%	.34%
2024	1,108	1,496	1.32%	1.68%	7.68%	8.96%	.26%	.34%
Policy		1,500		1.50%		8.00%		0.50%

Debt Capacity Analysis – Effect of Debt Issuance on Debt Ratios								
Fiscal Year	Debt Per Capita		Debt as a Percent of FMV		Debt Service as a % of General Fund Revenue		Debt Service Per Capita as a % of Income Per Capita	
	Projected	Peer Group Median	Projected	Peer Group Median	Projected	Peer Group Median	Projected	Peer Group Median
2025	1,116	1,496	1.32%	1.68%	7.80%	8.96%	.26%	.34%
2026	1,123	1,496	1.32%	1.68%	7.75%	8.96%	.26%	.34%
2027	1,127	1,496	1.31%	1.68%	7.72%	8.96%	.26%	.34%
2028	1,127	1,496	1.30%	1.68%	7.87%	8.96%	.27%	.34%
2029	1,136	1,496	1.30%	1.68%	7.25%	8.96%	.25%	.34%
2030	1,143	1,496	1.30%	1.68%	7.20%	8.96%	.24%	.34%
2031	1,143	1,496	1.29%	1.68%	7.44%	8.96%	.25%	.34%
2032	1,142	1,496	1.28%	1.68%	7.38%	8.96%	.25%	.34%
2033	1,139	1,496	1.26%	1.68%	7.33%	8.96%	.25%	.34%
2034	1,135	1,496	1.25%	1.68%	7.27%	8.96%	.25%	.34%
2035	1,129	1,496	1.23%	1.68%	7.21%	8.96%	.25%	.34%
2036	1,123	1,496	1.22%	1.68%	7.08%	8.96%	.25%	.34%
Policy		1,500		1.50%		8.00%		0.50%

Credit Ratings

Rating agencies are companies that assign credit ratings to institutions, including local governments that issue debt obligations. Credit ratings are the rating agencies' assessment of the County's ability and willingness to repay debt on a timely basis. Debt management is an important factor in evaluating and assigning credit ratings. Credit ratings are an important indicator in the bond market and can influence the County's long-term interest rates that it must pay.

The County's current credit ratings are AA+ by Standard & Poor's, AA+ by Fitch and an Aa1 by Moody's Investors Service. The County's credit ratings reflect strong financial management, continued economic development and diversification, strong financial position, strong financial policies, manageable capital needs, low debt, and strong reserves.

Changes in Economic Assumptions

In addition to analyzing the impact of the capital program on debt ratios and capacity, to remain prudent, the County analyzes the impact of changing economic conditions on the recommended maximum level of annual debt issuance. Three economic scenarios are created:

- 'Base' case reflects future economic conditions based on historical and projected trends.
- 'Best' case reflects the best economic conditions based on historical high trends.
- 'Worst' case reflects the worst economic conditions based on historical low trends.

The assumptions used in determining debt capacity in each scenario are based on historical trends, judgment, and projected economic conditions. Each case assumption is applied to the 20-year projection.

The 'Base' case projects the most affordable program. The 'Best' and 'Worst' case scenarios assume major changes in economic conditions for the 20-year period and could require adjustments to the Capital Improvement Plan and the debt issuance plan. However, planning to issue debt on the 'Best' case scenario every year is not advisable because some bonding capacity should be kept in reserve in anticipation of sudden unexpected economic downturns.

Final Analysis

There are multiple factors that can affect the County's affordability to incur future indebtedness, including the County's economy and the availability of adequate financial resources. For that reason the financial ratios and analysis used, take into account the entire County financial condition, as other factors can effectively deteriorate the County's financial posture and affect its ability to incur debt. In addition, these managerial and unpredictable scenarios are considered and tested as part of the analysis, so that the known effects of 'Worst' and 'Best' case results can be examined. It is important for the County to monitor its financial condition, the economic trends, and debt affordability results on a regular basis, in order to continue to evaluate the County's credit position to determine whether annual issuance of debt should be adjusted to reflect a changing financial outlook for the County under altered circumstances.

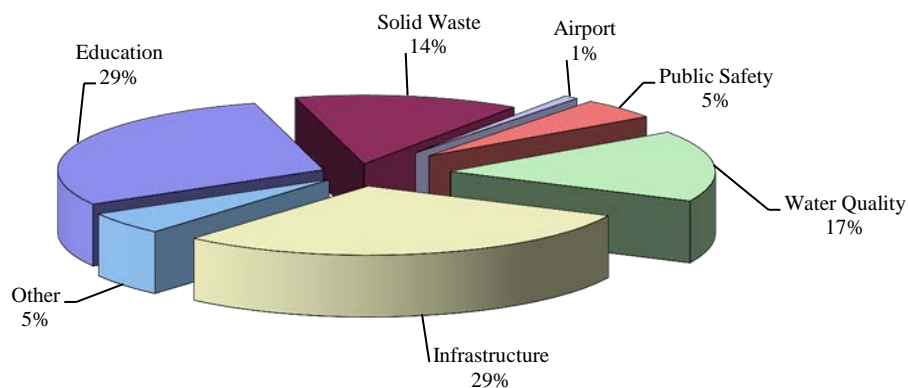
The estimated maximum debt capacity is not intended to be an absolute limit or a recommendation on the amount of debt that can be incurred. It should be used as a guide for better long-term financial planning and improving capital budgeting. Debt capacity estimates can assist long-term capital planning by showing the resources available to fund needed infrastructure, schools and other capital needs. The estimates can then be used to allocate restricted resources to priority projects. The County's annual debt review analyzes the projected debt issuances to assure that long-term financial stability will remain intact.

Outstanding Debt

The impact of the Capital Improvement Budget on the Operating Budget is evaluated during the budget process. The Capital Improvement Budget includes costs for long-term capital projects, which add to the capital asset base of the County. The Operating Budget includes the principal and interest cost associated with those assets and the pay-go financing.

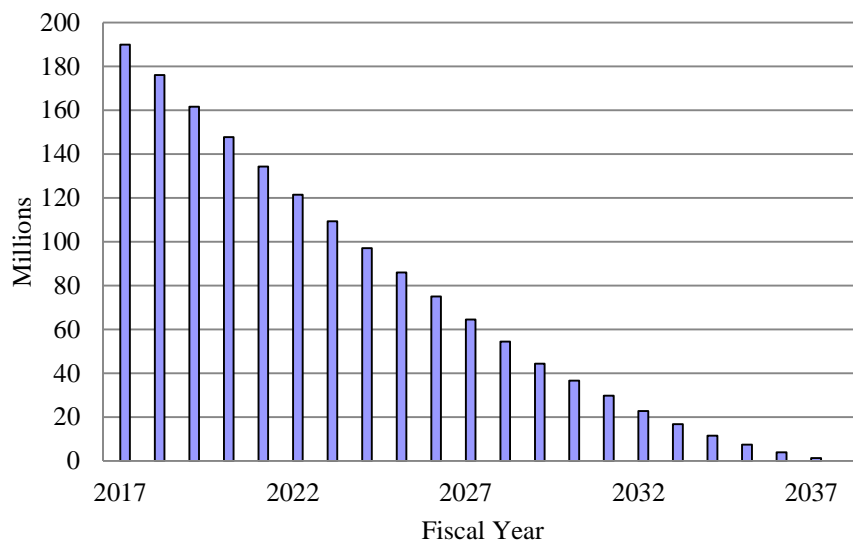
The following graph illustrates the percentage of total debt outstanding at June 30, 2016, by project category:

Percentage of Debt Outstanding by Project Category



The following graph illustrates the current outstanding debt at June 30, 2016.

Outstanding Debt



The table on the following page shows the current outstanding balance at June 30, 2016, and the estimated impact of debt service on the Operating Budget for FY 2017.

Current Debt Balance and FY 2017 Principal and Interest Costs

Description	FY 2016 Balance	FY 2017 Principal	FY 2017 Interest	Total Debt Service
General Fund:				
2007 Public Improvement Bonds	\$ 1,237,744	\$ 606,412	\$ 39,718	\$ 646,130
2008 Public Improvement Bonds	1,700,618	831,723	74,263	905,986
2009 Public Improvement & Refunding Bonds	2,403,990	931,413	81,775	1,013,188
2010 Ser A Public Improvement Bonds	2,673,853	506,726	67,468	574,194
2010 Ser B Build America Bonds	6,957,113	0	235,186	235,186
2010 Refunding Bonds	6,610,541	1,165,393	193,606	1,358,999
2011 Public Improvement Bonds	9,261,436	448,196	352,730	800,926
2012 Public Improvement Bonds	10,719,652	478,920	306,908	785,828
2012 Refunding Bonds	4,658,330	667,540	179,750	847,290
2013 Public Improvement Bonds	11,095,000	470,000	352,450	822,450
2013 Refunding Bonds	12,221,610	889,250	417,938	1,307,188
2014 Public Improvement Bonds	13,535,000	485,000	516,863	1,001,863
2015 Public Improvement Bonds	12,000,000	399,741	429,528	829,269
2015 Refunding Bonds	21,425,944	1,995,615	792,610	2,788,225
2016 Public Improvement Bonds	12,000,000	0	262,170	262,170
2016 Refunding Bonds	6,396,940	0	134,294	134,294
MD Water Quality Solid Waste Refinancing	1,588,810	34,692	15,888	50,580
MD Water Quality Resh Capping Ph 1	3,008,693	260,114	30,086	290,200
Total General Fund Existing Debt	\$ 139,495,274	\$ 10,170,735	\$ 4,483,231	\$ 14,653,966
2017 Planned Debt:	12,000,000			
2017 Public Improvement Bonds				
Total General Fund Debt	\$ 151,495,274	\$ 10,170,735	\$ 4,483,231	\$ 14,653,966
Solid Waste:				
2007 Public Improvement Bonds	252,256	123,588	8,095	131,683
2009 Public Improvement Bonds	659,720	289,723	18,880	308,603
2010 Ser A Public Improvement Bonds	1,058,413	200,581	26,706	227,287
2010 Ser B Build America Bonds	2,753,894	0	93,095	93,095
2010 Refunding Bonds	1,919,459	359,607	56,119	415,726
2011 Public Improvement Bonds	2,723,564	131,804	103,729	235,533
2012 Refunding Bonds	26,010	4,790	990	5,780
2013 Refunding Bonds	173,390	15,750	6,062	21,812
2015 Refunding Bonds	1,682,526	59,385	66,222	125,607
2016 Public Improvement Bonds	103,000	0	2,250	2,250
2016 Refunding Bonds	921,050	0	19,336	19,336
MD Water Quality 40 West Cell 3	1,221,970	135,389	13,442	148,831
MD Water Quality Solid Waste Refinancing	4,364,951	95,308	43,650	138,958
Total Solid Waste Existing Debt	\$ 17,860,203	\$ 1,415,925	\$ 458,576	\$ 1,874,501
2017 Planned Debt:	1,142,000			
2017 Public Improvement Bonds				
Total Solid Waste Debt	\$ 19,002,203	\$ 1,415,925	\$ 458,576	\$ 1,874,501

Current Debt Balance and FY 2017 Principal and Interest Costs

Description	FY2016 Balance	FY 2017 Principal	FY 2017 Interest	Total Debt Service
Airport				
2012 Refunding Bonds	745,660	87,670	28,910	116,580
Total Airport Existing Debt	\$ 745,660	\$ 87,670	\$ 28,910	\$ 116,580
Water Quality:				
1996 Series A Project & Refunding Bonds	2,484,877	681,795	1,568,206	2,250,001
2008 Public Improvement Bonds	129,382	63,277	5,650	68,927
2009 Public Improvement & Refunding Bonds	506,290	163,864	20,594	184,458
2010 Ser A Public Improvement Bonds	462,734	87,693	11,676	99,369
2010 Ser B Build America Bonds	1,203,993	0	40,701	40,701
2012 Public Improvement Bonds	5,060,348	226,080	144,880	370,960
2015 Public Improvement Bonds	3,460,000	115,259	123,847	239,106
2015 Refunding Bonds	821,530	0	33,268	33,268
2016 Public Improvement Bonds	8,532,000	0	186,403	186,403
2016 Refunding Bonds	2,137,010	0	44,863	44,863
MD Water Quality Series BNR	1,011,794	195,595	17,201	212,796
MD Water Quality Pretreat. Refinancing 2004	3,061,063	425,000	12,244	437,244
MD Water Quality Halfway I & I	321,735	27,815	3,217	31,032
MD Water Quality Winebrenner	2,553,000	118,219	20,424	138,643
Total Water Quality Existing Debt	\$ 31,745,756	\$ 2,104,597	\$ 2,233,174	\$ 4,337,771
2017 Planned Debt:	2,883,000			
2017 Public Improvement Bonds				
Total Water Quality Debt	\$ 34,628,756	\$ 2,104,597	\$ 2,233,174	\$ 4,337,771
Total Existing and 2017 Planned Debt	\$ 205,871,893	\$ 13,778,927	\$ 7,203,891	\$ 20,982,818

Bonded Limit Summary as of June 30, 2016

The County may only issue general obligation and revenue bonds under authority conferred by the Maryland General Assembly, excluding those issued for education. No referendum is required. As of June 30, 2016, the unused authorization available for issuance of general obligation bonds was \$37,734,722.

By State law, the total bonded indebtedness of the County for Water, Wastewater, and Pretreatment purposes may not exceed 10% of the assessed value of all property in Washington County subject to unlimited County taxation. See following table.

Schedule of Legal Debt Margins – Department of Water Quality Estimated as of June 30, 2016	
Assessed Value of Property in Washington County	\$ 12,467,158,000
Debt Limit: % of Assessed Value	10%
Water Quality Borrowing Limitation	1,246,715,800
Water Quality Debt	31,745,756
Debt Margin	1,214,970,044
Ratio of Water Quality Debt to Assessed Value	.25%

Statement of Revenues and Expenditures
Summary By Year – Capital Improvement Fund

Description	Fiscal Year		
	2015 Actual	2016 Budget	2017 Budget

Revenue (By Major Type):

Fees	\$ 2,975,784	\$ 1,700,000	\$ 2,051,000
Grants	6,636,281	20,125,000	14,159,000
Other	671,461	1,520,000	500,000
Bonds	17,833,509	20,636,000	16,025,000
Subtotal	28,117,035	43,981,000	32,735,000
Transfers	3,561,000	2,689,000	5,106,000
Capital Reserves	0	4,840,000	1,192,000
Total Revenue	31,678,035	51,510,000	39,033,000

Expenditures (By Function):

Education	9,680,606	20,507,500	8,428,000
Public Safety	1,740,699	1,562,000	2,358,000
General Government	5,424,885	1,270,000	2,238,000
Parks and Recreation	322,718	255,000	180,000
Water Quality	5,327,023	10,568,500	6,960,000
Roads/Infrastructure	14,644,376	14,608,000	15,458,000
Solid Waste	2,969,595	103,000	1,255,000
Transit System	645,168	417,000	693,000
Airport	736,894	2,219,000	1,463,000
Golf Course	146,886	0	0
Total Expenditures	41,638,849	51,510,000	39,033,000

Net Difference	(9,960,814)	0	0
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Project Detail of Major Projects – Fiscal Year 2017

Project Name	Project Description	Project Budget	Operating Impact
Conococheague Wastewater Treatment Plant - ENR Upgrades	This project will plan, design, and construct upgrades required to meet Maryland Department of the Environment Enhanced Nutrient Removal strategy.	\$ 5,639,000	\$ 349,000
Capital Maintenance – Board of Education	Projects vary depending on the conditions, safety, security, and utility requirements. The Comprehensive Maintenance Plan outlines specific projects over the next five years. Projects include improved lighting, sidewalk replacements, paving repairs, flooring repairs, door replacement, large painting projects, locker replacement, interior renovations, and security system installations. Projects are targeted to reduce deferred maintenance.	4,664,000	0
Pavement Maintenance and Rehabilitation Program	This project includes the modification of county-wide pavement maintenance program targeting rehabilitation of county highway pavement, as required. Techniques may include but not be limited to road reclamation, bituminous concrete overlay, crack sealing, and surface treatment. Individual projects will be determined on an annual basis consistent with the County's overall Pavement Management Program.	4,549,000	0
Jonathan Hager Elementary School	A new 56,818 SF facility to house a 3-round, Pre-K through 5th Grade elementary school with a capacity of 471 students, with a core space sized for a 5-round school to accommodate future expansion. Provisions have been made within this budget request for an expanded gymnasium for community use in partnership with the Buildings, Grounds and Parks Department. This project will allow the closing and consolidation of two aging, inadequate elementary school facilities: Winter Street and Conococheague Elementary.	2,499,000	5,000
Professional Boulevard Bridge – Phase I	The project involves the extension of Professional Court over Antietam Creek to a point 200' east of the proposed bridge. This project will connect to the proposed Professional Boulevard Extended Phase II roadway that connects to Yale Drive Extended project. The project length is approximately 1,000 LF (including bridge). The project includes construction of a four lane closed section roadway and the construction of a four lane bridge over Antietam Creek.	1,659,000	1,000
Eastern Boulevard at Antietam Drive Improvements	The project will provide intersection improvements at Antietam Drive. This project will connect the Eastern Boulevard Widening Phase II project with the Eastern Boulevard Extended project.	1,387,000	0

Project Name	Project Description	Project Budget	Operating Impact
Learning Resource Center Renovation	Much of the library book stack space currently located in this building will be re-purposed to accommodate Middle College students (fulltime dual enrolled high school students who will receive a high school diploma as well as AA degree at the completion of 2 years) so that they have a home base and so that they can be more closely monitored due to their age. As the Middle College continues to expand, this dedicated space is needed to support these younger fulltime day students.	\$ 1,095,000	\$ 0
Old Roxbury Road Bridge W5372	This project involves the replacement of an existing one lane, two span bridge with a two lane multiple span bridge. The existing bridge has flooding issues and is structurally deficient and functionally obsolete.	1,020,000	0
Colonel Henry K. Douglas Drive Extended Phase I	The project involves the extension of Colonel Henry K. Douglas Drive from Sharpsburg Pike (Maryland Route 65) to the north side of the Cross Creek development. The roadway is approximately one-quarter mile long and will include construction of a three lane closed section roadway (one lane in each direction with a continuous center left turn lane).	1,020,000	1,000
Resh Road Gas Trench	The project will purchase land adjacent to Resh Road Landfill and construct a landfill gas cutoff trench, flare system, and monitoring wells.	1,020,000	1,000
Crayton Boulevard Extended	The project involves the construction of Crayton Boulevard between Maugans Avenue and Showalter Road. The project includes construction of a three lane closed section roadway (one lane in each direction with a continuous center left turn lane). The project length is approximately 1,600 LF.	984,000	1,000
Southern Boulevard Phase I	The project involves the construction of Southern Boulevard between East Oak Ridge Drive near South Pointe Drive to Frederick Street (US 40A). The project includes construction of a two or four lane divided open section roadway and new intersections at each extent of the project, a roundabout at Frederick Street, and a roundabout at East Oak Ridge Drive.	969,000	3,000
Dogstreet Road Bridge W5932P	This project is located in the 19700 block of Dogstreet Road. The existing multiple corrugated metal pipe structure regularly clogs due to a heavy debris load in the creek resulting in road overtopping and subsequent damage to the road surface and the adjacent property. The project will replace the existing structure with a single span bridge.	856,000	0

Project Name	Project Description	Project Budget	Operating Impact
Taxiway C and Roadway Loop Rehabilitation	The project consists of a full-length rehabilitation of Taxiway C. Existing taxiway lighting will be replaced with energy efficient LED lighting. The project will also provide for the rehabilitation of the entrance and exit loop for the passenger terminal.	\$ 648,000	\$ 0
Keedysville Road Bridge W5651	This bridge is located in the 18900 block of Keedysville Road, one half mile west of Keedysville. The project will rehabilitate a stone arch structure. The structure is considered eligible for the National Register of Historic Places. Rehabilitation will include concrete fill, traffic barrier upgrades, scour repair, stone masonry reconstruction, and repointing.	640,000	0
Law Enforcement – Fleet Replacement Program	This project is for the replacement of public safety fleet inventory.	628,000	0
Police, Fire and Emergency Services Training Facility	As the need for police, fire, and emergency services continues to grow, the need for a facility for training emergency personnel grows as well. Such a facility would be centralized to the area, easily accessible, and utilized by state, county and local police departments, correctional guards, and security guards. Classroom training for fire and emergency services departments, that predominantly takes place currently in local fire houses, would be held in this facility. With the potential to utilize previously owned County property, the facility would allow for local law enforcement and Fire/EMS programs to migrate from the HCC facilities and have a designated public safety campus. The project would be constructed over several phases ranging from the main building to other necessary training structures.	612,000	300,000
Register of Wills and Master Court Renovations	The project involves the relocation of the Register of Wills from the Circuit Courthouse to the 2nd Floor of 33 West Washington Street and allows for a new Master Court in the location left unoccupied in the Circuit Courthouse. Work includes renovations to 4,400 SF of office space at 33 West Washington Street including construction of an orphans courtroom and relocation of high density filing as well as renovations to 2,900 SF of office space at the Circuit Courthouse left unoccupied.	587,000	0
Pump Station Upgrades - Various Stations	The project includes electrical and equipment upgrades.	510,000	0

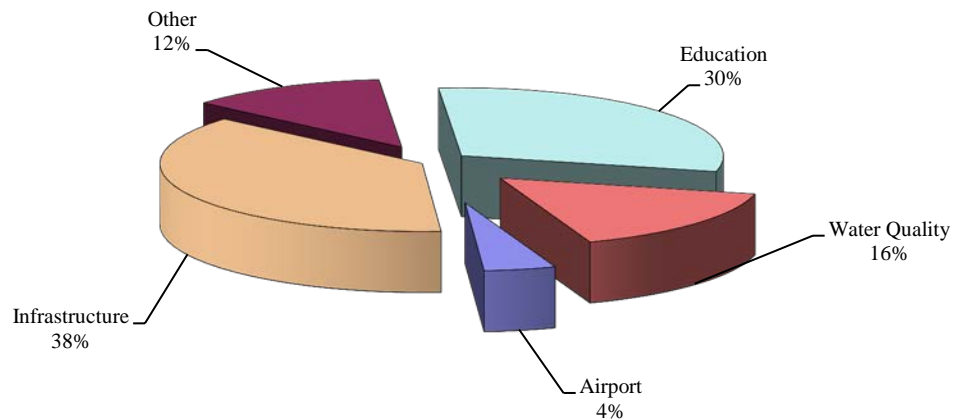
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Ten Year Summary

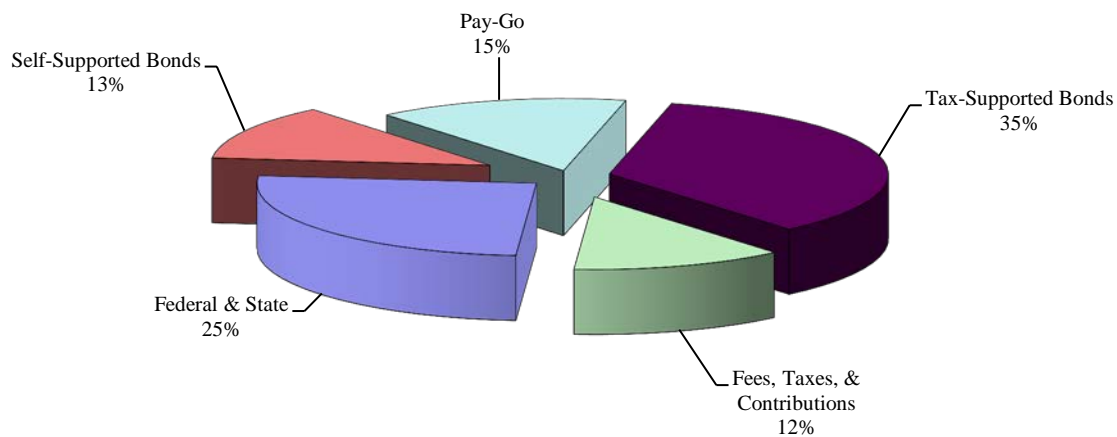
Ten Year Capital Improvement Plan Graphs

The following graphs illustrate the projects by category and the funding sources that are currently scheduled for FY2017 thru FY2026. The 'Other' category includes projects for: Parks & Recreation, Transit, General Government, and Public Safety. The 'Education' category includes projects for the Board of Education, the Hagerstown Community College, and Public Libraries. The total for all projects represented in the chart is \$339,907,000.

Project Categories for FY2017 thru FY2026



Funding Sources for FY2017 thru FY2026



Capital Improvement Ten Year Summary
Fiscal Year 2017 – 2026

Project	Total	Prior Appr.	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023-2026
Project Costs									
Airport	19,004,759	4,026,759	1,463,000	1,137,000	1,310,000	887,000	1,417,000	1,555,000	7,209,000
Bridges	18,495,102	3,040,102	3,407,000	1,137,000	1,228,000	2,582,000	1,971,000	1,137,000	3,993,000
Drainage	15,315,094	3,006,094	485,000	1,730,000	1,912,000	1,361,000	1,368,000	945,000	4,508,000
Education	133,597,300	31,094,300	8,428,000	6,742,000	7,259,000	7,371,000	10,845,000	13,870,000	47,988,000
General Government	14,841,257	1,617,257	2,238,000	1,923,000	1,227,000	1,048,000	1,093,000	1,095,000	4,600,000
Parks & Recreation	1,284,234	337,234	180,000	115,000	158,000	54,000	55,000	56,000	329,000
Public Safety	21,535,878	2,332,878	2,358,000	4,518,000	2,141,000	1,279,000	1,183,000	1,312,000	6,412,000
Railroad Crossings	1,634,837	390,837	0	0	284,000	0	0	300,000	660,000
Road Improvement	131,567,328	33,076,328	11,566,000	10,746,000	8,938,000	10,403,000	7,600,000	9,514,000	39,724,000
Solid Waste	11,687,000	339,000	1,255,000	582,000	207,000	3,186,000	788,000	2,020,000	3,310,000
Transit	9,327,143	1,085,143	693,000	2,406,000	389,000	1,239,000	314,000	1,344,000	1,857,000
Water Quality	73,930,871	31,967,871	6,960,000	1,563,000	1,712,000	9,302,000	6,640,000	2,689,000	13,097,000
TOTAL	452,220,803	112,313,803	39,033,000	32,599,000	26,765,000	38,712,000	33,274,000	35,837,000	133,687,000
Funding Sources									
General Fund	52,094,606	19,021,606	3,215,000	2,906,000	3,042,000	2,958,000	3,242,000	3,342,000	14,368,000
Highway Fund	9,274,000	424,000	885,000	885,000	885,000	885,000	885,000	885,000	3,540,000
Hotel Rental Fund	423,000	0	423,000	0	0	0	0	0	0
Solid Waste Fund	636,000	269,000	113,000	26,000	27,000	27,000	28,000	28,000	118,000
Utility Admin Fund	1,468,706	294,706	94,000	96,000	98,000	99,000	127,000	128,000	532,000
Water Fund	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000
Sewer Fund	3,986,593	2,738,593	114,000	115,000	123,000	123,000	123,000	125,000	525,000
Airport Fund	600,000	64,000	160,000	39,000	40,000	41,000	42,000	43,000	171,000
Tax Supported Bond	132,798,100	12,798,100	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	48,000,000
Self Supported Bond	53,573,187	11,374,187	4,025,000	1,804,000	1,613,000	8,346,000	7,067,000	4,396,000	14,948,000
Transfer Tax	16,572,000	1,100,000	1,451,000	1,604,000	1,608,000	1,400,000	1,283,000	726,000	7,400,000
Excise Tax - Schools	4,719,400	869,400	385,000	385,000	385,000	385,000	385,000	385,000	1,540,000
Excise Tax - Roads	1,530,320	270,320	126,000	126,000	126,000	126,000	126,000	126,000	504,000
Excise Tax - Other	319,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	116,000
Excise Tax - Library	140,200	40,200	10,000	10,000	10,000	10,000	10,000	10,000	40,000
Excise Tax - Non-Residential	4,221,000	50,000	50,000	50,000	60,000	438,000	445,000	620,000	2,508,000
Capital Reserve - Highway	575,000	575,000	0	0	0	0	0	0	0
Capital Reserve - General	16,798,660	13,999,660	804,000	1,995,000	0	0	0	0	0
Capital Reserve - Transit	15,000	0	15,000	0	0	0	0	0	0
Capital Reserve - Sewer	373,000	0	373,000	0	0	0	0	0	0
Federal Grant	34,250,627	8,390,627	4,808,000	3,658,000	2,282,000	2,946,000	2,163,000	2,398,000	7,605,000
State Grant	100,575,219	39,808,219	9,351,000	6,578,000	4,215,000	6,427,000	5,286,000	6,851,000	22,059,000
Contributions	16,704,000	95,000	500,000	189,000	189,000	2,439,000	0	3,713,000	9,579,000
TOTAL	452,220,803	112,313,803	39,033,000	32,599,000	26,765,000	38,712,000	33,274,000	35,837,000	133,687,000

Project Detail of Major Projects – Fiscal Years 2017-2026

Project Name	Project Description	Ten Year Project Budget
Pavement Maintenance and Rehabilitation Program	This project includes the modification of county-wide pavement maintenance program targeting rehabilitation of county highway pavement, as required. Techniques may include but not be limited to road reclamation, bituminous concrete overlay, crack sealing, and surface treatment. Individual projects will be determined on an annual basis consistent with the County's overall Pavement Management Program.	\$ 54,557,000
Western Heights Middle School Modernization	The project includes renovation of 113,970 SF built in 1983 and an addition of 21,345 SF for an expanded community gym, music, science, art and support programs.	38,208,000
Sharpsburg Elementary Replacement	Construction of 63,818 SF replacement building to support 471 students.	25,256,000
Smithsburg Wastewater Treatment Plant – Facility Improvements Began in FY 2010	The project will upgrade the facility to address Maryland Department of the Environment (MDE) strategy for Enhanced Nutrient Removal (ENR) and expand capacity to address growth needs of the area.	10,993,000

Capital Improvement Ten Year Detail
Fiscal Year 2017 - 2026

Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs										
Airport										
Capital Equipment - Airport	4,503,759	567,759	408,000	364,000	371,000	378,000	385,000	392,000	1,638,000	
Land Acquisition - Airport	3,826,000	816,000	0	0	0	0	0	0	3,010,000	
T-Hangar 1, 2 and 3 Replacement	337,000	31,000	10,000	31,000	32,000	32,000	33,000	34,000	134,000	
Taxiway C and Roadway Loop Rehab	2,635,000	1,987,000	648,000	0	0	0	0	0	0	
Taxiway T Construction	932,000	0	0	0	0	162,000	770,000	0	0	
Runway 9/27 Rehabilitation	2,480,000	0	0	0	0	0	220,000	1,120,000	1,140,000	
Taxiway F and H Rehabilitation	1,250,000	0	0	0	0	0	0	0	1,250,000	
Air Traffic Control Tower Replacement	257,000	187,000	0	32,000	0	38,000	0	0	0	
Passenger Terminal Hold Room Expansion	1,993,000	202,000	0	624,000	899,000	268,000	0	0	0	
Airport Security System Enhancements	534,000	203,000	331,000	0	0	0	0	0	0	
T-Hangar Roof Replacement	148,000	33,000	35,000	8,000	8,000	9,000	9,000	9,000	37,000	
Terminal Utility Enhancements	31,000	0	31,000	0	0	0	0	0	0	
Wildlife Hazard Assessment	78,000	0	0	78,000	0	0	0	0	0	
Airport Total	19,004,759	4,026,759	1,463,000	1,137,000	1,310,000	887,000	1,417,000	1,555,000	7,209,000	
Bridges										
Bridge Inspection & Inventory	751,525	317,525	17,000	29,000	0	168,000	0	22,000	198,000	
Dogstreet Road Bridge W5932P	1,022,400	166,400	856,000	0	0	0	0	0	0	
Old Roxbury Road Bridge W5372	4,093,077	926,077	1,020,000	520,000	1,087,000	540,000	0	0	0	
Keedysville Road Bridge W5651	1,660,600	1,020,600	640,000	0	0	0	0	0	0	
Crystal Falls Drive Bridge W3051	1,338,500	405,500	449,000	484,000	0	0	0	0	0	
Rinehart Road Culvert 14/03	338,000	0	0	0	32,000	306,000	0	0	0	
Kretsinger Road Culvert 14/01	322,000	0	0	0	32,000	290,000	0	0	0	
Frog Eye Road Culvert 11/06	614,000	0	0	0	0	0	0	0	614,000	
Cleaning and Painting of Steel Bridges	408,000	0	408,000	0	0	0	0	0	0	
Keefer Road Bridge 15/20	194,000	0	0	0	77,000	117,000	0	0	0	
Burnside Bridge Road Culvert 01/03	335,000	0	0	0	0	0	0	116,000	219,000	
Greenspring Furnace Road Culvert 15/15	407,000	0	0	0	0	69,000	338,000	0	0	
Harpers Ferry Road Culvert 11/02	549,000	0	0	0	0	0	33,000	516,000	0	
Back Road Culvert 11/03	302,000	0	0	0	0	33,000	269,000	0	0	
Long Hollow Road Culvert 05/07	305,000	0	0	0	0	0	50,000	255,000	0	
Hoffman's Inn Road Culvert 05/06	308,000	0	0	0	0	0	0	162,000	146,000	
Henline Road Culvert 05/05	456,000	0	0	0	0	0	0	33,000	423,000	
Bridge Scour Repairs	449,000	204,000	17,000	0	0	0	0	0	228,000	
Bowie Road Culvert	294,000	0	0	0	0	0	0	33,000	261,000	
Remsburg Road Culvert	308,000	0	0	0	0	0	0	0	308,000	

Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Lanes Road Culvert 15/12	324,000	0	0	0	0	33,000	291,000	0	0
Greenbrier Road Culvert 16/14	323,000	0	0	0	0	0	0	0	323,000
Taylor's Landing Road Bridge W7101	516,000	0	0	0	0	0	0	0	516,000
Mooresville Road Culvert 15/21	359,000	0	0	0	0	0	0	0	359,000
Draper Road Culvert 04/07	36,000	0	0	0	0	0	0	0	36,000
Welty Church Road Culvert 14/06	36,000	0	0	0	0	0	0	0	36,000
Willow Road Culvert 05/10	326,000	0	0	0	0	0	0	0	326,000
Halfway Boulevard Bridges W0912	2,120,000	0	0	104,000	0	1,026,000	990,000	0	0
Bridges Total	18,495,102	3,040,102	3,407,000	1,137,000	1,228,000	2,582,000	1,971,000	1,137,000	3,993,000
Drainage									
Stream Restoration at Various Locations	2,338,194	881,194	0	416,000	0	43,000	440,000	0	558,000
Stormwater Retrofits	10,621,900	2,114,900	0	878,000	894,000	912,000	928,000	945,000	3,950,000
Shank Road Drainage	156,000	0	0	0	156,000	0	0	0	0
Hoffmaster and Harpers Ferry Road Drainage	887,000	0	0	436,000	451,000	0	0	0	0
Harpers Ferry Road Drainage, 3600 Block	384,000	0	0	0	64,000	320,000	0	0	0
Brookfield Avenue Drainage	111,000	0	0	0	111,000	0	0	0	0
Broadfording Church Road Culvert	236,000	0	0	0	236,000	0	0	0	0
Pondsville Road Drainage	163,000	10,000	153,000	0	0	0	0	0	0
Bottom Road Drainage	256,000	0	256,000	0	0	0	0	0	0
Independence Road, 12600 Block	76,000	0	76,000	0	0	0	0	0	0
Chestnut Grove Road Drainage	86,000	0	0	0	0	86,000	0	0	0
Drainage Total	15,315,094	3,006,094	485,000	1,730,000	1,912,000	1,361,000	1,368,000	945,000	4,508,000
Board of Education									
Relocatable Classrooms	936,000	0	0	0	0	0	0	0	936,000
Capital Maintenance - BOE	18,048,000	13,384,000	4,664,000	0	0	0	0	0	0
Jonathan Hager Elementary School	19,831,000	17,332,000	2,499,000	0	0	0	0	0	0
Sharpsburg Elementary School-Replacement	25,256,000	0	0	5,105,000	5,756,000	6,016,000	8,379,000	0	0
Western Heights Middle School Modernization	38,208,000	0	0	0	0	0	0	9,016,000	29,192,000
Springfield Middle School Modernization	8,400,000	0	0	0	0	0	0	0	8,400,000
Board of Education Total	110,679,000	30,716,000	7,163,000	5,105,000	5,756,000	6,016,000	8,379,000	9,016,000	38,528,000
Hagerstown Community College									
Learning Resource Center Renovation	3,226,000	95,000	1,095,000	1,085,000	951,000	0	0	0	0
Teacher Education Center	4,713,000	0	0	0	0	107,000	2,378,000	2,228,000	0
ARCC Air Conditioning	2,727,000	0	0	0	0	0	0	0	2,727,000
Campus Road & Parking Lot Overlays	2,693,000	0	0	0	0	0	0	0	2,693,000
Student Center Parking Lot	696,000	0	0	0	0	696,000	0	0	0

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
SMART/Alternative Energy House/Training Center	1,746,000	0	150,000	532,000	532,000	532,000	0	0	0
ATC Renovation & Addition	4,000,000	0	0	0	0	0	0	0	4,000,000
Hagerstown Community College Total	19,801,000	95,000	1,245,000	1,617,000	1,483,000	1,335,000	2,378,000	2,228,000	9,420,000
Public Libraries									
Systemic Projects - Library	116,300	16,300	10,000	10,000	10,000	10,000	10,000	10,000	40,000
Hancock Public Library Replacement	3,001,000	267,000	10,000	10,000	10,000	10,000	78,000	2,616,000	0
Public Libraries Total	3,117,300	283,300	20,000	20,000	20,000	20,000	88,000	2,626,000	40,000
General Government									
Contingency - General Fund	1,024,305	75,305	49,000	100,000	100,000	100,000	100,000	100,000	400,000
Bond Issuance Costs	1,097,000	97,000	100,000	100,000	100,000	100,000	100,000	100,000	400,000
Financial System Management & Upgrades	1,494,796	356,796	490,000	197,000	212,000	32,000	33,000	34,000	140,000
General - Equipment and Vehicle Replacement Program	4,454,589	342,589	246,000	250,000	424,000	432,000	440,000	448,000	1,872,000
Systemic Improvements-Buildings	2,439,378	440,378	200,000	200,000	200,000	200,000	200,000	200,000	799,000
County Administration Building Exterior Enhancements	721,000	0	357,000	364,000	0	0	0	0	0
Register of Wills and Master Court Renovations	1,107,000	0	587,000	520,000	0	0	0	0	0
Information Systems Replacement Program	2,187,785	177,785	153,000	156,000	170,000	184,000	198,000	213,000	936,000
Broadband Wireless Network Infrastructure	169,856	97,856	36,000	36,000	0	0	0	0	0
Tree Forestation	145,548	29,548	20,000	0	21,000	0	22,000	0	53,000
General Government Total	14,841,257	1,617,257	2,238,000	1,923,000	1,227,000	1,048,000	1,093,000	1,095,000	4,600,000
Parks & Recreation									
BR Capital Equipment Replacement Program	764,934	260,934	0	52,000	53,000	54,000	55,000	56,000	234,000
North Central County Park	95,000	0	0	0	0	0	0	0	95,000
Regional Park Equip. Replacement	41,000	0	41,000	0	0	0	0	0	0
Chestnut Grove Park, Overlay Parking lot	42,000	0	0	0	42,000	0	0	0	0
Tennis Courts, Resurfacing	159,300	76,300	41,000	21,000	21,000	0	0	0	0
Doubs Woods, Arts Pavilion Roof Replacement	27,000	0	27,000	0	0	0	0	0	0
Pavilion Apron Replacement, Various Parks	20,000	0	20,000	0	0	0	0	0	0
Ag Center Drainage, Asphalt Improvements	20,000	0	20,000	0	0	0	0	0	0
Marty Snook Park Pool Return Grate Replacement	31,000	0	31,000	0	0	0	0	0	0
Ag Center Land Acquisition Development	84,000	0	0	42,000	42,000	0	0	0	0
Parks & Recreation Total	1,284,234	337,234	180,000	115,000	158,000	54,000	55,000	56,000	329,000

Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
<u>Public Safety</u>										
Communication System Replacement	545,373	285,373	260,000	0	0	0	0	0	0	
Communication Tower(s) various locations	528,000	204,000	0	104,000	0	108,000	0	112,000	0	
Motorola Portable Radio Replacement Program	1,110,000	0	102,000	104,000	106,000	108,000	110,000	112,000	468,000	
Phase 2 - Detention Center Expansion	1,200,000	0	0	0	0	0	0	0	1,200,000	
Detention Center - Systemic Projects	3,520,000	550,000	450,000	260,000	265,000	270,000	275,000	280,000	1,170,000	
Emergency Svcs Equip & Vehicle Program	1,906,583	776,583	306,000	94,000	95,000	97,000	83,000	69,000	386,000	
Police, Fire and Emerg Svcs Training Facility	5,000,000	0	612,000	3,328,000	1,060,000	0	0	0	0	
Law Enforcement - Fleet Replacement Program	7,725,922	516,922	628,000	628,000	615,000	696,000	715,000	739,000	3,188,000	
Public Safety Total	21,535,878	2,332,878	2,358,000	4,518,000	2,141,000	1,279,000	1,183,000	1,312,000	6,412,000	
<u>Railroad Crossings</u>										
Railroad Crossing Improvements	1,634,837	390,837	0	0	284,000	0	0	300,000	660,000	
Railroad Crossings Total	1,634,837	390,837	0	0	284,000	0	0	300,000	660,000	
<u>Road Improvement</u>										
Pavement Maintenance and Rehab Program	64,789,178	10,232,178	4,549,000	4,437,000	5,113,000	5,161,000	5,707,000	5,614,000	23,976,000	
Longmeadow Road	539,400	10,400	0	0	0	0	0	0	529,000	
Eastern Boulevard Extended	9,650,000	0	0	0	0	0	0	1,120,000	8,530,000	
Southern Boulevard Phase I	10,224,100	8,975,100	969,000	280,000	0	0	0	0	0	
E. Oak Ridge Drive/South Pointe Signal	338,000	0	0	0	0	114,000	0	224,000	0	
Eastern Boulevard Widening Phase II	6,117,300	1,836,300	0	780,000	795,000	2,403,000	303,000	0	0	
Transportation ADA	1,659,206	806,206	85,000	84,000	85,000	84,000	84,000	84,000	347,000	
Halfway Boulevard Extended Phase II	720,000	0	0	0	0	0	0	0	720,000	
Eastern Blvd at Antietam Drive Improvements	2,256,000	869,000	1,387,000	0	0	0	0	0	0	
Colonel Henry K Douglas Drive Extended Bridge	440,000	0	0	0	0	0	0	0	440,000	
Professional Boulevard Extended - Phase II	6,051,200	1,414,200	0	1,200,000	1,074,000	2,066,000	297,000	0	0	
Professional Boulevard Bridge - Ph I	8,657,000	4,422,000	1,659,000	1,272,000	1,304,000	0	0	0	0	
Marsh Pike from MD60 to Longmeadow	450,000	0	0	0	0	0	0	0	450,000	
Mt Aetna Road Spot Improvements	780,000	0	0	0	0	0	0	0	780,000	
Burnside Bridge Road Spot Improvements	552,000	0	0	0	0	0	0	0	552,000	
Valley Mall Area Road Improvements Phase II	1,010,000	0	0	0	0	0	0	840,000	170,000	
Intersection and Signal Improvements	446,000	369,000	77,000	0	0	0	0	0	0	

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Medical Campus Road Signal	432,000	0	0	432,000	0	0	0	0	0
Bucky Avenue	360,000	0	0	0	0	0	0	0	360,000
Colonel Henry K. Douglas Drive Extended Phase I	2,424,000	0	1,020,000	1,404,000	0	0	0	0	0
Professional Boulevard Extended - Phase III	1,724,000	0	0	0	0	0	652,000	1,072,000	0
Crayton Boulevard Extended	2,209,000	1,071,000	984,000	104,000	0	0	0	0	50,000
Highway Central Section - New Facility	480,000	0	0	0	0	0	0	0	480,000
HWY Equip and Vehicle Replacement Program	6,047,944	1,343,944	150,000	520,000	371,000	378,000	385,000	560,000	2,340,000
Highway Maintenance Shop - Western Section	376,000	153,000	88,000	135,000	0	0	0	0	0
Fuel Center - Central Highway Maintenance Facility	1,149,000	899,000	250,000	0	0	0	0	0	0
Highway Eastern Section - Fuel Tank Replacement	825,000	575,000	250,000	0	0	0	0	0	0
HWY Western Section - Fuel Tank Replacement	861,000	100,000	98,000	98,000	196,000	197,000	172,000	0	0
Road Improvement Total	131,567,328	33,076,328	11,566,000	10,746,000	8,938,000	10,403,000	7,600,000	9,514,000	39,724,000
Solid Waste									
Contingency - Solid Waste	376,000	289,000	87,000	0	0	0	0	0	0
Close Out Cap - Rubble Fill	2,092,000	0	0	0	0	0	100,000	1,992,000	0
Resh Road Gas Trench	1,070,000	50,000	1,020,000	0	0	0	0	0	0
40 West Truck Loading Facility Rehab & Upgrades	108,000	0	0	0	0	108,000	0	0	0
40 West Pavement Rehab and Bridge Repair	660,000	0	0	0	0	0	660,000	0	0
Seal Coating Closed Facilities	812,000	0	0	0	0	0	0	0	812,000
40 West Partial Capping	3,051,000	0	0	0	0	3,051,000	0	0	0
City County Upgrades	2,380,000	0	0	0	0	0	0	0	2,380,000
City County Gas Mitigation	678,000	0	122,000	556,000	0	0	0	0	0
Kaetzel Transfer Station Retaining Wall Replacement	180,000	0	0	0	180,000	0	0	0	0
SW Equip/Vehicle Replacement Program	280,000	0	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Solid Waste Total	11,687,000	339,000	1,255,000	582,000	207,000	3,186,000	788,000	2,020,000	3,310,000
Transit									
Fixed Route Bus Replacement Program	4,370,600	484,600	0	2,035,000	0	826,000	0	1,025,000	0
ADA Bus Replacement	998,000	208,000	0	75,000	87,000	105,000	0	0	523,000
Vehicle Maintenance Program	3,556,543	392,543	291,000	296,000	302,000	308,000	314,000	319,000	1,334,000
RouteMatch Fixed Route Module	310,000	0	310,000	0	0	0	0	0	0
Transportation Development Plan	92,000	0	92,000	0	0	0	0	0	0
Transit Total	9,327,143	1,085,143	693,000	2,406,000	389,000	1,239,000	314,000	1,344,000	1,857,000

Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
<u>Water Quality</u>										
Utility Administration										
General Building Improvements	1,387,000	101,000	0	0	530,000	605,000	25,000	25,000	101,000	
Laboratory Rehab of Ventilation System	260,000	0	0	260,000	0	0	0	0	0	
WQ Equip/Vehicle Replacement Program	1,216,706	193,706	94,000	96,000	98,000	99,000	102,000	103,000	431,000	
Utility Administration Total	2,863,706	294,706	94,000	356,000	628,000	704,000	127,000	128,000	532,000	
Wastewater Utility										
Smithsburg WwTP - ENR Upgrades	12,488,387	1,495,387	0	0	0	5,493,000	5,500,000	0	0	
Pump Station Upgrades - Various Stations	1,924,683	514,683	510,000	0	0	0	0	0	900,000	
Conococheague WwTP - ENR Upgrades	33,062,910	27,423,910	5,639,000	0	0	0	0	0	0	
Replace PO 2 Pump Station	1,375,000	0	0	0	0	1,375,000	0	0	0	
Potomac Edison Pump Station & Force Main	1,574,000	0	0	0	0	1,574,000	0	0	0	
Antietam WwTP - ENR Upgrades	2,992,000	622,000	0	0	0	0	0	0	2,370,000	
New Roof at Conococheague WwTP	256,000	128,000	128,000	0	0	0	0	0	0	
General WwTP Improvements	3,344,000	0	0	0	0	0	0	1,004,000	2,340,000	
Collection System Rehabilitation Project	3,538,000	228,000	0	780,000	795,000	0	0	280,000	1,455,000	
Sandy Hook WwTP	784,000	0	0	0	0	0	0	784,000	0	
Heavy Sewer EQP and VEH Replacement	823,000	227,000	88,000	89,000	96,000	75,000	39,000	40,000	169,000	
Replace Grinder Pumps	678,000	26,000	26,000	26,000	27,000	48,000	84,000	85,000	356,000	
Capacity Management Project	1,173,000	800,000	373,000	0	0	0	0	0	0	
Wastewater Utility Total	64,012,980	31,464,980	6,764,000	895,000	918,000	8,565,000	5,623,000	2,193,000	7,590,000	
Water Utility										
WQ Water Meter Replacement	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000	
General WTP Improvements	942,000	106,000	0	0	0	0	246,000	0	590,000	
Sharpsburg Water Treatment Plant	808,000	0	0	208,000	0	0	0	0	600,000	
Mt Aetna Water System Improvements	744,000	0	0	0	133,000	0	611,000	0	0	
Highfield/Sharpsburg Water Storage Tank	336,000	0	0	0	0	0	0	336,000	0	
WQ Main Replacement	3,651,000	0	0	0	0	0	0	0	3,651,000	
Water Utility Total	7,054,185	208,185	102,000	312,000	166,000	33,000	890,000	368,000	4,975,000	
Water Quality Total	73,930,871	31,967,871	6,960,000	1,563,000	1,712,000	9,302,000	6,640,000	2,689,000	13,097,000	
TOTAL	452,220,803	112,313,803	39,033,000	32,599,000	26,765,000	38,712,000	33,274,000	35,837,000	133,687,000	

Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Funding Sources										
General Fund	52,094,606	19,021,606	3,215,000	2,906,000	3,042,000	2,958,000	3,242,000	3,342,000	14,368,000	
Highway Fund	9,274,000	424,000	885,000	885,000	885,000	885,000	885,000	885,000	3,540,000	
Hotel Rental Fund	423,000	0	423,000	0	0	0	0	0	0	
Solid Waste Fund	636,000	269,000	113,000	26,000	27,000	27,000	28,000	28,000	118,000	
Utility Admin Fund	1,468,706	294,706	94,000	96,000	98,000	99,000	127,000	128,000	532,000	
Water Fund	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000	
Sewer Fund	3,986,593	2,738,593	114,000	115,000	123,000	123,000	123,000	125,000	525,000	
Airport Fund	600,000	64,000	160,000	39,000	40,000	41,000	42,000	43,000	171,000	
Tax Supported Bond	132,798,100	12,798,100	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	48,000,000	
Self Supported Bond	53,573,187	11,374,187	4,025,000	1,804,000	1,613,000	8,346,000	7,067,000	4,396,000	14,948,000	
Transfer Tax	16,572,000	1,100,000	1,451,000	1,604,000	1,608,000	1,400,000	1,283,000	726,000	7,400,000	
Excise Tax - Schools	4,719,400	869,400	385,000	385,000	385,000	385,000	385,000	385,000	1,540,000	
Excise Tax - Roads	1,530,320	270,320	126,000	126,000	126,000	126,000	126,000	126,000	504,000	
Excise Tax - Other	319,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	116,000	
Excise Tax - Library	140,200	40,200	10,000	10,000	10,000	10,000	10,000	10,000	40,000	
Excise Tax - Non-Residential	4,221,000	50,000	50,000	50,000	60,000	438,000	445,000	620,000	2,508,000	
Capital Reserve - Highway	575,000	575,000	0	0	0	0	0	0	0	
Capital Reserve - General	16,798,660	13,999,660	804,000	1,995,000	0	0	0	0	0	
Capital Reserve - Transit	15,000	0	15,000	0	0	0	0	0	0	
Capital Reserve - Sewer	373,000	0	373,000	0	0	0	0	0	0	
Federal Grant	34,250,627	8,390,627	4,808,000	3,658,000	2,282,000	2,946,000	2,163,000	2,398,000	7,605,000	
State Grant	100,575,219	39,808,219	9,351,000	6,578,000	4,215,000	6,427,000	5,286,000	6,851,000	22,059,000	
Contributions	16,704,000	95,000	500,000	189,000	189,000	2,439,000	0	3,713,000	9,579,000	
TOTAL	452,220,803	112,313,803	39,033,000	32,599,000	26,765,000	38,712,000	33,274,000	35,837,000	133,687,000	

Airport

Airport
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs											
<u>Airport</u>											
44	Capital Equipment - Airport	4,503,759	567,759	408,000	364,000	371,000	378,000	385,000	392,000	1,638,000	
45	Land Acquisition - Airport	3,826,000	816,000	0	0	0	0	0	0	3,010,000	
46	T-Hangar 1, 2 and 3 Replacement	337,000	31,000	10,000	31,000	32,000	32,000	33,000	34,000	134,000	
47	Taxiway C and Roadway Loop Rehab	2,635,000	1,987,000	648,000	0	0	0	0	0	0	
48	Taxiway T Construction	932,000	0	0	0	0	162,000	770,000	0	0	
49	Runway 9/27 Rehabilitation	2,480,000	0	0	0	0	0	220,000	1,120,000	1,140,000	
50	Taxiway F and H Rehabilitation	1,250,000	0	0	0	0	0	0	0	1,250,000	
51	Air Traffic Control Tower Replacement	257,000	187,000	0	32,000	0	38,000	0	0	0	
52	Passenger Terminal Hold Room Expansion	1,993,000	202,000	0	624,000	899,000	268,000	0	0	0	
53	Airport Security System Enhancements	534,000	203,000	331,000	0	0	0	0	0	0	
54	T-Hangar Roof Replacement	148,000	33,000	35,000	8,000	8,000	9,000	9,000	9,000	37,000	
55	Terminal Utility Enhancements	31,000	0	31,000	0	0	0	0	0	0	
56	Wildlife Hazard Assessment	78,000	0	0	78,000	0	0	0	0	0	
Airport Total		19,004,759	4,026,759	1,463,000	1,137,000	1,310,000	887,000	1,417,000	1,555,000	7,209,000	
Funding Sources											
General Fund		1,134,351	164,351	79,000	89,000	75,000	91,000	83,000	94,000	459,000	
Airport Fund		600,000	64,000	160,000	39,000	40,000	41,000	42,000	43,000	171,000	
Capital Reserve - General		283,000	283,000	0	0	0	0	0	0	0	
Federal Grant		15,575,408	3,207,408	943,000	951,000	1,122,000	702,000	1,208,000	1,323,000	6,119,000	
State Grant		1,412,000	308,000	281,000	58,000	73,000	53,000	84,000	95,000	460,000	
		19,004,759	4,026,759	1,463,000	1,137,000	1,310,000	887,000	1,417,000	1,555,000	7,209,000	

Project Title: Capital Equipment - Airport

Project Number: 139

Account Number: EQP031

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

FY2017 Projects:
Replace 1987 Rotary Plow (FAA)
Replace Runway sweeper (FAA)
Terminal electric boom lift (MAA)

Assumptions & Justifications:

Pending FAA grant funding as follows:
90% Federal funding
5% State funding
5% Local funding

Pending Maryland Aviation Administration (MAA) grant funding:
75% MAA funding
25% Local funding

The Airport maintains an inventory of specialized and heavy equipment and vehicles, including a fire apparatus for maintenance activities. Each year, the equipment is identified if replacement is necessary based on age and life expectancy. The goal of the replacement program is to balance replacement costs versus maintenance costs. In line with objectives of a well-managed organization, the Airport strives to establish an equipment replacement program that will set the equipment replacement cycle in line with best practices, minimizing maintenance costs.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	4,503,759	567,759	408,000	364,000	371,000	378,000	385,000	392,000	1,638,000
Total Cost	4,503,759	567,759	408,000	364,000	371,000	378,000	385,000	392,000	1,638,000

Funding Sources:

General Fund	446,351	40,351	62,000	24,000	28,000	31,000	35,000	38,000	188,000
Airport Fund	0	0	0	0	0	0	0	0	0
Capital Reserve - General	22,000	22,000	0	0	0	0	0	0	0
Federal Grant	3,633,408	470,408	328,000	315,000	315,000	315,000	315,000	315,000	1,260,000
State Grant	402,000	35,000	18,000	25,000	28,000	32,000	35,000	39,000	190,000
Total Funding	4,503,759	567,759	408,000	364,000	371,000	378,000	385,000	392,000	1,638,000

Project Title: Land Acquisition - Airport**Project Number: 930****Account Number: LAN018****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is for land acquisition to promote future economic development of the Airport.

Assumptions & Justifications:

Pending grant funding approval
 90% Federal Aviation Administration funding anticipated
 5% Maryland Aviation Administration funding anticipated
 5% Local funding

The new Airport Layout Plan will identify land recommended to be acquired to enhance future development of the Airport.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	3,826,000	816,000	0	0	0	0	0	0	3,010,000
Total Cost	3,826,000	816,000	0	0	0	0	0	0	3,010,000

Funding Sources:

General Fund	192,000	41,000	0	0	0	0	0	0	151,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	3,443,000	734,000	0	0	0	0	0	0	2,709,000
State Grant	191,000	41,000	0	0	0	0	0	0	150,000
Total Funding	3,826,000	816,000	0	0	0	0	0	0	3,010,000

Project Title: T-Hangar 1, 2 and 3 Replacement**Project Number: 1154****Account Number: BLD087****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project includes the demolition of existing T-hangars and the construction of new replacement T-hangars 1, 2 and 3. The total building size is 38,400 SF.

Assumptions & Justifications:

The project assumes a pre-engineered metal building.

Grant funding available if no other Airport priorities exist or submitted.

FAA 90%

State 5%

Local 5%

Existing buildings were built between 1963 and 1965 and have exceeded their useful life expectancy. Buildings have stone floors and wood structural members. Doors are non-electric manual open which is problematic and creates a continual maintenance problem.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	84,000	0	0	0	0	0	33,000	34,000	17,000
Construction	253,000	31,000	10,000	31,000	32,000	32,000	0	0	117,000
Total Cost	337,000	31,000	10,000	31,000	32,000	32,000	33,000	34,000	134,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Airport Fund	337,000	31,000	10,000	31,000	32,000	32,000	33,000	34,000	134,000
Federal Grant	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	337,000	31,000	10,000	31,000	32,000	32,000	33,000	34,000	134,000

Project Title: Taxiway C and Roadway Loop Rehab**Project Number: 1188****Account Number: RUN017****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project consists of a full-length rehabilitation of Taxiway C, relocation of one taxiway and the removal of one taxiway per FAA criteria. Existing taxiway lighting will be replaced with energy efficient LED lighting. The project will also provide for the rehabilitation of the entrance and exit loop and vehicle parking area for the passenger terminal.

Assumptions & Justifications:

95% Federal Aviation Administration discretionary funding anticipated
 2.5% Maryland Aviation Administration funding anticipated
 2.5% Local funding

Based on a visual inspection of the pavement condition, it is evident that the taxiway shows significant failure including, but not limited to, deep rutting and cracking associated with subgrade failure. Additionally, in May of 2015, FAA required several significant changes to the scope of the project including relocation of one taxiway, removal of one taxiway and pavement removal at the runway end. The existing terminal roadway has been in place since 1991 and due to traffic over the last 20 years, the roadway is beginning to fail and in several places is in need of full-depth rehabilitation. The remaining terminal parking lot areas will be milled, overlaid, and new signs will be installed.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	486,000	180,000	306,000	0	0	0	0	0	0
Construction	2,149,000	1,807,000	342,000	0	0	0	0	0	0
Total Cost	2,635,000	1,987,000	648,000	0	0	0	0	0	0

Funding Sources:

General Fund	26,000	9,000	17,000	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	74,000	74,000	0	0	0	0	0	0	0
Federal Grant	2,436,000	1,821,000	615,000	0	0	0	0	0	0
State Grant	99,000	83,000	16,000	0	0	0	0	0	0
Total Funding	2,635,000	1,987,000	648,000	0	0	0	0	0	0

Project Title: Taxiway T Construction

Project Number: 1189

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project consists of the construction of a new taxiway to access aviation facilities off of Pennsylvania Avenue.

Assumptions & Justifications:

- 90% Federal Aviation Administration funding anticipated
- 5% Maryland Aviation Administration funding anticipated
- 5% Local funding

As the area north of Nick's Airport Inn develops, there will need to be a taxiway to access the rear of these facilities.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	162,000	0	0	0	0	162,000	0	0	0
Construction	770,000	0	0	0	0	0	770,000	0	0
Total Cost	932,000	0	0	0	0	162,000	770,000	0	0

Funding Sources:

General Fund	46,000	0	0	0	0	8,000	38,000	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	839,000	0	0	0	0	146,000	693,000	0	0
State Grant	47,000	0	0	0	0	8,000	39,000	0	0
Total Funding	932,000	0	0	0	0	162,000	770,000	0	0

Project Title: Runway 9/27 Rehabilitation**Project Number: 1190****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project consists of the rehabilitation of 7,000 SF Runway 9/27.

Assumptions & Justifications:

- 90% Federal Aviation Administration funding anticipated
- 5% Maryland Aviation Administration funding anticipated
- 5% Local funding

The existing runway will be ten-years old and will be in need of sub-surface repairs, milling, overlay, painting and new energy efficient lighting.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	220,000	0	0	0	0	0	220,000	0	0
Construction	2,260,000	0	0	0	0	0	0	1,120,000	1,140,000
Total Cost	2,480,000	0	0	0	0	0	220,000	1,120,000	1,140,000

Funding Sources:

General Fund	123,000	0	0	0	0	0	10,000	56,000	57,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	2,234,000	0	0	0	0	0	200,000	1,008,000	1,026,000
State Grant	123,000	0	0	0	0	0	10,000	56,000	57,000
Total Funding	2,480,000	0	0	0	0	0	220,000	1,120,000	1,140,000

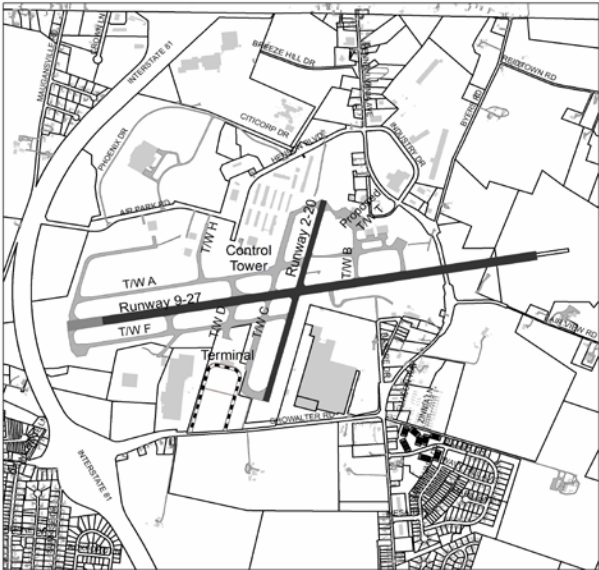
Project Title: Taxiway F and H Rehabilitation

Project Number: 1191

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

Taxiway F and H will be in need of total rehabilitation.

Assumptions & Justifications:

- 90% Federal Aviation Administration funding anticipated
- 5% Maryland Aviation Administration funding anticipated
- 5% Local funding

The project will involve sub-surface repairs, milling, overlay, painting and new LED lighting installation.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	119,000	0	0	0	0	0	0	0	119,000
Construction	1,131,000	0	0	0	0	0	0	0	1,131,000
Total Cost	1,250,000	0	0	0	0	0	0	0	1,250,000

Funding Sources:

General Fund	63,000	0	0	0	0	0	0	0	63,000
Federal Grant	1,124,000	0	0	0	0	0	0	0	1,124,000
State Grant	63,000	0	0	0	0	0	0	0	63,000
Total Funding	1,250,000	0	0	0	0	0	0	0	1,250,000

Projected Operating Costs: \$0



The existing air traffic control tower was constructed at HGR in 1974. At that time, it was a used tower that was disassembled and delivered to HGR. The tower proves to be inadequate to serve the present and future needs of HGR and needs to be replaced.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Engineering/Design	257,000	187,000	0	32,000	0	38,000	0	0	0
Total Cost	257,000	187,000	0	32,000	0	38,000	0	0	0

General Fund	70,000	0	0	32,000	0	38,000	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	187,000	187,000	0	0	0	0	0	0	0
Total Funding	257,000	187,000	0	32,000	0	38,000	0	0	0

Project Title: Passenger Terminal Hold Room Expansion

Project Number: 1237

Account Number: BLD082

Projected Annual FTE's: 0

Projected Operating Costs: \$2,000



Description:

The project involves an Airport Passenger Terminal Hold Room expansion to increase passenger capacity.

Assumptions & Justifications:

- Pending Federal Aviation Administration (FAA) funding:
- 90% FAA share
- 5% State share
- 5% Local share

The current security hold room is configured to accommodate up to 100 passengers. We currently host service from Allegiant using MD-83 aircraft configured to accommodate 166 passengers. In the near future, they anticipate flights utilizing an Airbus 320 configured with 177 seats. It is our desire to add on to the existing hold room and increase the capacity to plan for current and future needs.

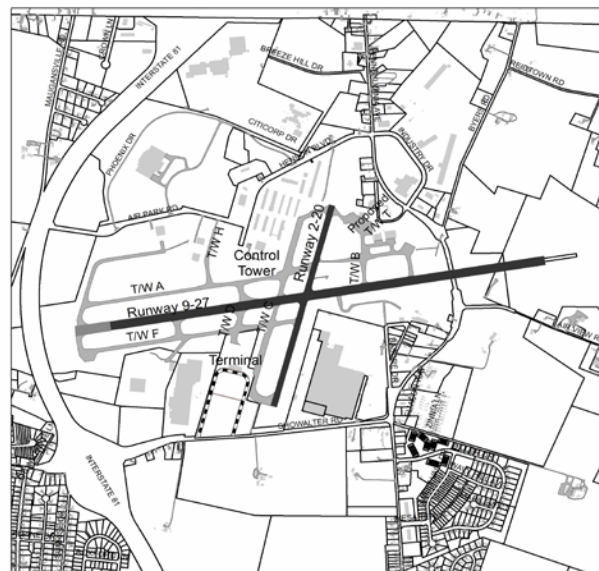
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	202,000	202,000	0	0	0	0	0	0	0
Construction	1,791,000	0	0	624,000	899,000	268,000	0	0	0
Total Cost	1,993,000	202,000	0	624,000	899,000	268,000	0	0	0

Funding Sources:

General Fund	102,000	10,000	0	31,000	47,000	14,000	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	1,792,000	182,000	0	562,000	807,000	241,000	0	0	0
State Grant	99,000	10,000	0	31,000	45,000	13,000	0	0	0
Total Funding	1,993,000	202,000	0	624,000	899,000	268,000	0	0	0

Project Title: Airport Security System Enhancements**Project Number: 1238****Account Number: COM026****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

Airfield and Business Park Closed Circuit Television (CCTV) Cameras will be replaced with high-quality digital cameras and integrated into the Airport Virtual Perimeter Monitoring System. Additional cameras will also be installed to enhance security coverage of the airport.

Assumptions & Justifications:

Maryland Aviation Administration Funding is anticipated

75% MAA share

25% Local share

The CCTV camera technology on the airfield and in the business park is outdated and needs to be replaced and additional cameras need to be added. It is imperative that we have a working security system covering the entire airport.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	41,000	0	41,000	0	0	0	0	0	0
Construction	293,000	128,000	165,000	0	0	0	0	0	0
Equipment/Furniture	200,000	75,000	125,000	0	0	0	0	0	0
Total Cost	534,000	203,000	331,000	0	0	0	0	0	0

Funding Sources:

General Fund	64,000	64,000	0	0	0	0	0	0	0
Airport Fund	84,000	0	84,000	0	0	0	0	0	0
State Grant	386,000	139,000	247,000	0	0	0	0	0	0
Total Funding	534,000	203,000	331,000	0	0	0	0	0	0

Project Title: T-Hangar Roof Replacement**Project Number: 1271****Account Number: BLD088****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project provides for the replacement of T-hangar roofs.

Assumptions & Justifications:

FY2017 Project:

Roof coating system on T-Hangar #3

An ongoing roof replacement plan is necessary for T-hangars. Airport will contribute funds on an annual basis to provide for this replacement plan.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	148,000	33,000	35,000	8,000	8,000	9,000	9,000	9,000	37,000
Total Cost	148,000	33,000	35,000	8,000	8,000	9,000	9,000	9,000	37,000

Funding Sources:

Airport Fund	148,000	33,000	35,000	8,000	8,000	9,000	9,000	9,000	37,000
Total Funding	148,000	33,000	35,000	8,000	8,000	9,000	9,000	9,000	37,000

Projected Operating Costs: \$1,000



In an effort to promote the use of the space for events, the utility extension greatly enhances our potential to utilize this space for events.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Utilities	31,000	0	31,000	0	0	0	0	0	0
Total Cost	31,000	0	31,000	0	0	0	0	0	0

General Fund	0	0	0	0	0	0	0	0	0
Airport Fund	31,000	0	31,000	0	0	0	0	0	0
Total Funding	31,000	0	31,000	0	0	0	0	0	0

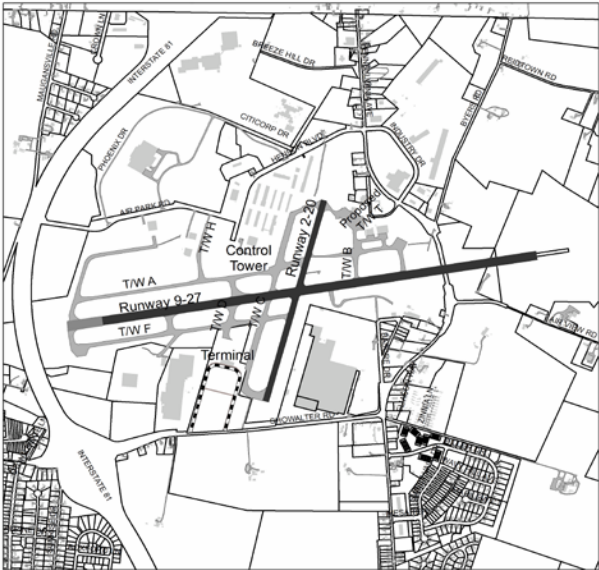
Project Title: Wildlife Hazard Assessment

Project Number: 1288

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

FAA required Wildlife Hazard Assessment

Assumptions & Justifications:

- Funding anticipated:
- 95% FAA
- 2.5% Maryland Aviation Administration
- 2.5% County

This is an assessment of wildlife hazards at the airport. Once the assessment is complete, a report is generated and mitigation actions can be included in the airport Wildlife Hazard Management Plan.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	78,000	0	0	78,000	0	0	0	0	0
Total Cost	78,000	0	0	78,000	0	0	0	0	0

Funding Sources:

General Fund	2,000	0	0	2,000	0	0	0	0	0
Federal Grant	74,000	0	0	74,000	0	0	0	0	0
State Grant	2,000	0	0	2,000	0	0	0	0	0
Total Funding	78,000	0	0	78,000	0	0	0	0	0

Bridges

Bridges
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs											
<u>Bridges</u>											
58	Bridge Inspection & Inventory	751,525	317,525	17,000	29,000	0	168,000	0	22,000	198,000	
59	Dogstreet Road Bridge W5932P	1,022,400	166,400	856,000	0	0	0	0	0	0	
60	Old Roxbury Road Bridge W5372	4,093,077	926,077	1,020,000	520,000	1,087,000	540,000	0	0	0	
61	Keedysville Road Bridge W5651	1,660,600	1,020,600	640,000	0	0	0	0	0	0	
62	Crystal Falls Drive Bridge W3051	1,338,500	405,500	449,000	484,000	0	0	0	0	0	
63	Rinehart Road Culvert 14/03	338,000	0	0	0	32,000	306,000	0	0	0	
64	Kretsinger Road Culvert 14/01	322,000	0	0	0	32,000	290,000	0	0	0	
65	Frog Eye Road Culvert 11/06	614,000	0	0	0	0	0	0	0	614,000	
66	Cleaning and Painting of Steel Bridges	408,000	0	408,000	0	0	0	0	0	0	
67	Keefer Road Bridge 15/20	194,000	0	0	0	77,000	117,000	0	0	0	
68	Burnside Bridge Road Culvert 01/03	335,000	0	0	0	0	0	0	116,000	219,000	
69	Greenspring Furnace Road Culvert 15/15	407,000	0	0	0	0	69,000	338,000	0	0	
70	Harpers Ferry Road Culvert 11/02	549,000	0	0	0	0	0	33,000	516,000	0	
71	Back Road Culvert 11/03	302,000	0	0	0	0	33,000	269,000	0	0	
72	Long Hollow Road Culvert 05/07	305,000	0	0	0	0	0	50,000	255,000	0	
73	Hoffman's Inn Road Culvert 05/06	308,000	0	0	0	0	0	0	162,000	146,000	
74	Henline Road Culvert 05/05	456,000	0	0	0	0	0	0	33,000	423,000	
75	Bridge Scour Repairs	449,000	204,000	17,000	0	0	0	0	0	228,000	
76	Bowie Road Culvert	294,000	0	0	0	0	0	0	33,000	261,000	
77	Remsburg Road Culvert	308,000	0	0	0	0	0	0	0	308,000	
78	Lanes Road Culvert 15/12	324,000	0	0	0	0	33,000	291,000	0	0	
79	Greenbrier Road Culvert 16/14	323,000	0	0	0	0	0	0	0	323,000	
80	Taylor's Landing Road Bridge W7101	516,000	0	0	0	0	0	0	0	516,000	
81	Mooresville Road Culvert 15/21	359,000	0	0	0	0	0	0	0	359,000	
82	Draper Road Culvert 04/07	36,000	0	0	0	0	0	0	0	36,000	
83	Welty Church Road Culvert 14/06	36,000	0	0	0	0	0	0	0	36,000	
84	Willow Road Culvert 05/10	326,000	0	0	0	0	0	0	0	326,000	
85	Halfway Boulevard Bridges W0912	2,120,000	0	0	104,000	0	1,026,000	990,000	0	0	
Bridges Total		18,495,102	3,040,102	3,407,000	1,137,000	1,228,000	2,582,000	1,971,000	1,137,000	3,993,000	
Funding Sources											
General Fund		7,242,402	901,402	477,000	170,000	77,000	625,000	749,000	287,000	3,956,000	
Tax Supported Bond		3,870,900	566,900	856,000	36,000	303,000	704,000	518,000	850,000	37,000	
Capital Reserve - General		1,073,000	516,000	408,000	149,000	0	0	0	0	0	
Federal Grant		6,308,800	1,055,800	1,666,000	782,000	848,000	1,253,000	704,000	0	0	
		18,495,102	3,040,102	3,407,000	1,137,000	1,228,000	2,582,000	1,971,000	1,137,000	3,993,000	

Project Title: Bridge Inspection & Inventory

Project Number: 40

Account Number: BRG002

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project provides an ongoing bridge inspection program for both major (bridges greater than 20 feet in length) and minor (bridges greater than 6 but less than 20 feet in length) structures. Federal regulations govern the major structures inspection program.

Assumptions & Justifications:

Federal aid bridge funds cover all of the costs for the major bridges. They are not shown herein since they are paid directly by the State Highway Administration to the consultant, and do not pass through the County's records. Only local funds required are shown below. Minor structures are fully locally funded as they are not eligible for any federal aid money.

Various portions of this project are required by State and Federal regulations, while other portions are done as needed to assure public safety and to minimize maintenance costs. This project supports the infrastructure needs of the County under its bridge infrastructure program.

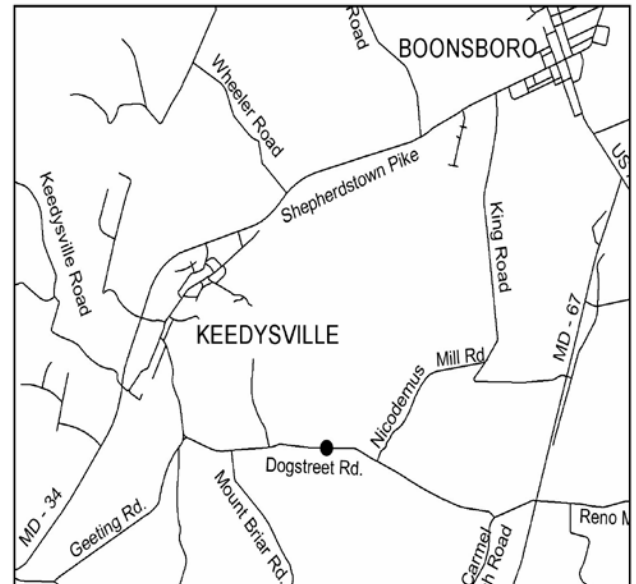
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	751,525	317,525	17,000	29,000	0	168,000	0	22,000	198,000
Total Cost	751,525	317,525	17,000	29,000	0	168,000	0	22,000	198,000

Funding Sources:

General Fund	598,525	164,525	17,000	29,000	0	168,000	0	22,000	198,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	153,000	153,000	0	0	0	0	0	0	0
Total Funding	751,525	317,525	17,000	29,000	0	168,000	0	22,000	198,000

Project Title: Dogstreet Road Bridge W5932P**Project Number: 48****Account Number: BRG049****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 19700 block of Dogstreet Road (ADC Map 31, Grid K-9). The existing multiple corrugated metal pipe structure regularly clogs due to a heavy debris load in the creek resulting in road overtopping and subsequent damage to the road surface and the adjacent property. The project will replace the existing structure with a single span bridge.

Assumptions & Justifications:

The bridge size will be heavily influenced by MDE requirements and details are unknown at this time and may vary considerably from the assumptions used for this budget. A precast concrete arch is the basis for the cost estimate.

The project is needed to provide cost effective road maintenance in this area. The frequency of flooding and clogging impacts the delivery of public safety services in that area of the county. The Bridge Sufficiency Rating is 78.6 out of a maximum possible score of 100.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	135,000	135,000	0	0	0	0	0	0	0
Land Acquisition	31,400	31,400	0	0	0	0	0	0	0
Construction	762,000	0	762,000	0	0	0	0	0	0
Inspection	88,000	0	88,000	0	0	0	0	0	0
Utilities	6,000	0	6,000	0	0	0	0	0	0
Total Cost	1,022,400	166,400	856,000	0	0	0	0	0	0

Funding Sources:

General Fund	166,400	166,400	0	0	0	0	0	0	0
Tax Supported Bond	856,000	0	856,000	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Total Funding	1,022,400	166,400	856,000	0	0	0	0	0	0

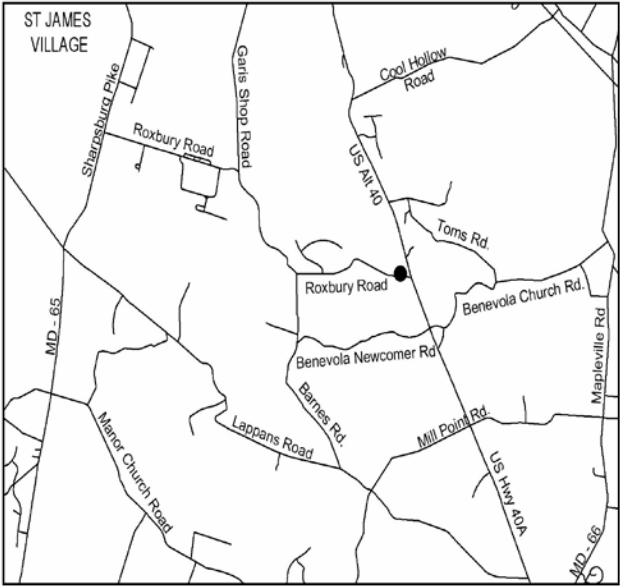
Project Title: Old Roxbury Road Bridge W5372

Project Number: 56

Account Number: BRG020

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project involves the replacement of an existing one lane, two span bridge with a two lane multiple span bridge. The existing bridge has flooding issues and is structurally deficient and functionally obsolete.

Assumptions & Justifications:

The project is proposed as a Federal Aid project with 80/20 cost share for construction.

The project is needed to replace a structure that has exceeded its useful life and to improve safety. Due to the structure type, no practical long term repair options exist. The Bridge Sufficiency Rating is 13.6 out of a maximum possible score of 100.

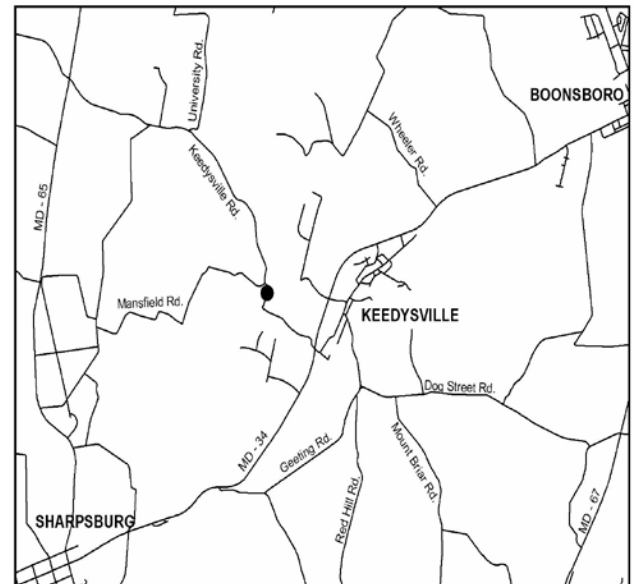
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	137,177	137,177	0	0	0	0	0	0	0
Land Acquisition	281,000	281,000	0	0	0	0	0	0	0
Construction	3,623,700	483,700	1,020,000	520,000	1,060,000	540,000	0	0	0
Inspection	51,200	24,200	0	0	27,000	0	0	0	0
Total Cost	4,093,077	926,077	1,020,000	520,000	1,087,000	540,000	0	0	0

Funding Sources:

General Fund	633,177	392,177	204,000	37,000	0	0	0	0	0
Tax Supported Bond	890,900	507,900	0	36,000	239,000	108,000	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	57,000	26,000	0	31,000	0	0	0	0	0
Federal Grant	2,512,000	0	816,000	416,000	848,000	432,000	0	0	0
Total Funding	4,093,077	926,077	1,020,000	520,000	1,087,000	540,000	0	0	0

Project Title: Keedysville Road Bridge W5651**Project Number: 1018****Account Number: BRG072****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This bridge is located in the 18900 block of Keedysville Road, one half mile west of Keedysville (ADC Map 31, E-7). The project will rehabilitate a stone arch structure. The structure is considered eligible for the National Register of Historic Places. Rehabilitation will include concrete fill, traffic barrier upgrades, scour repair, stone masonry reconstruction, and repointing.

Assumptions & Justifications:

The project is proposed as a Federal Aid project with 80/20 cost share for construction.

The project is needed to maintain a serviceable condition and to protect historical considerations. The Bridge Sufficiency Rating is 50.8 out of a maximum possible score of 100.

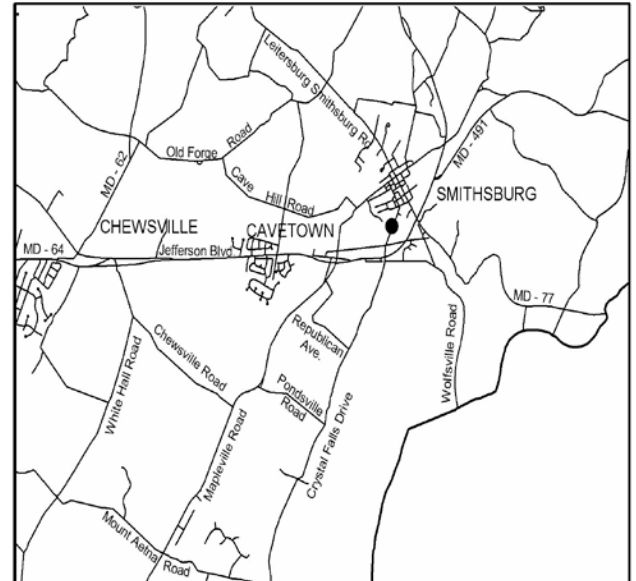
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	252,500	252,500	0	0	0	0	0	0	0
Land Acquisition	5,100	5,100	0	0	0	0	0	0	0
Construction	1,326,000	712,000	614,000	0	0	0	0	0	0
Inspection	26,000	0	26,000	0	0	0	0	0	0
Utilities	51,000	51,000	0	0	0	0	0	0	0
Total Cost	1,660,600	1,020,600	640,000	0	0	0	0	0	0

Funding Sources:

General Fund	204,600	55,600	149,000	0	0	0	0	0	0
Tax Supported Bond	59,000	59,000	0	0	0	0	0	0	0
Capital Reserve - General	133,000	133,000	0	0	0	0	0	0	0
Federal Grant	1,264,000	773,000	491,000	0	0	0	0	0	0
Total Funding	1,660,600	1,020,600	640,000	0	0	0	0	0	0

Project Title: Crystal Falls Drive Bridge W3051**Project Number: 1019****Account Number: BRG030****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located just outside Smithsburg town limits on Crystal Falls Drive (ADC Map 23, F-4). The project serves to replace a two span concrete bridge with a new single span concrete bridge and to make traffic barrier approach road improvements.

Assumptions & Justifications:

The project is proposed as a Federal Aid project with 80/20 cost share for construction.

The project is needed to replace a structure that is nearing the end of its useful life and to improve safety. Due to the structure type, no practical long term repair options exist. The Bridge Sufficiency Rating is 42.5 out of a maximum possible score of 100.

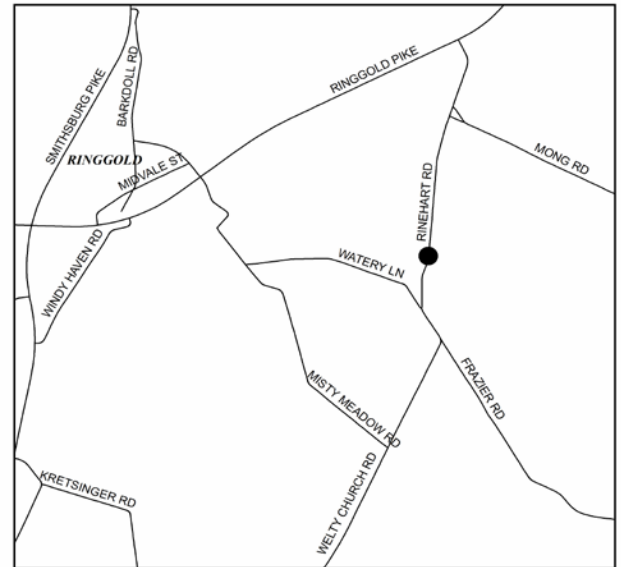
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	353,500	353,500	0	0	0	0	0	0	0
Land Acquisition	10,200	10,200	0	0	0	0	0	0	0
Construction	907,000	0	449,000	458,000	0	0	0	0	0
Inspection	26,000	0	0	26,000	0	0	0	0	0
Utilities	41,800	41,800	0	0	0	0	0	0	0
Total Cost	1,338,500	405,500	449,000	484,000	0	0	0	0	0

Funding Sources:

General Fund	212,700	122,700	90,000	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	118,000	0	0	118,000	0	0	0	0	0
Federal Grant	1,007,800	282,800	359,000	366,000	0	0	0	0	0
Total Funding	1,338,500	405,500	449,000	484,000	0	0	0	0	0

Project Title: Rinehart Road Culvert 14/03**Project Number: 1039****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 14300 block of Rinehart Road (ADC Map 12, Grid J-6). The project will replace the concrete slab bridge with a two cell concrete box culvert and headwalls. The project will install an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be completed with Kretsinger Road culvert 14/01.

The project is needed to replace a structure that is near the end of its useful life and will improve vehicle safety.

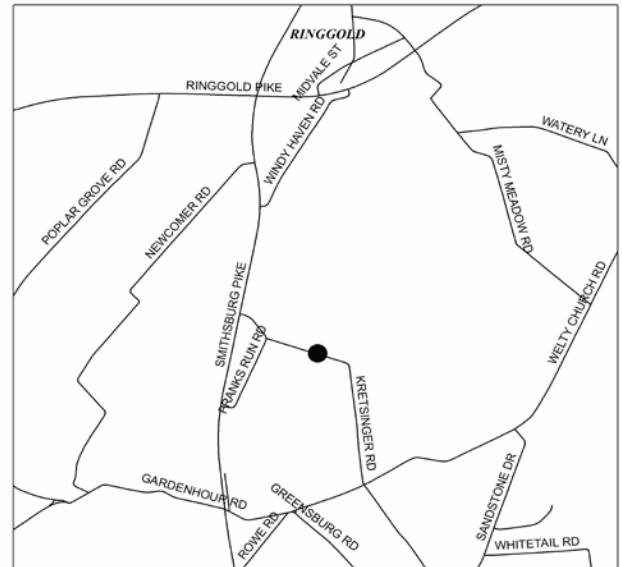
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	11,000	0	0	0	0
Construction	275,000	0	0	0	0	275,000	0	0	0
Inspection	31,000	0	0	0	0	31,000	0	0	0
Utilities	21,000	0	0	0	21,000	0	0	0	0
Total Cost	338,000	0	0	0	32,000	306,000	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	338,000	0	0	0	32,000	306,000	0	0	0
Total Funding	338,000	0	0	0	32,000	306,000	0	0	0

Project Title: Kretsinger Road Culvert 14/01**Project Number: 1040****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 13600 block of Kretsinger Road (ADC Map 12, Grid G-8). The project will replace the concrete slab bridge with a two cell concrete box culvert and headwalls. The project will install an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Rinehart Road culvert 14/03.

The project is needed to replace a structure that is near the end of its useful life and improve vehicle safety.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	11,000	0	0	0	0
Construction	259,000	0	0	0	0	259,000	0	0	0
Inspection	31,000	0	0	0	0	31,000	0	0	0
Utilities	21,000	0	0	0	21,000	0	0	0	0
Total Cost	322,000	0	0	0	32,000	290,000	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	322,000	0	0	0	32,000	290,000	0	0	0
Total Funding	322,000	0	0	0	32,000	290,000	0	0	0

Project Title: Frog Eye Road Culvert 11/06**Project Number: 1041****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 19800 block of Frog Eye Road (ADC Map 37, Grid D-4). The project will replace a single lane steel stringer/open steel grid deck with a two cell box culvert with headwalls. The project will include realignment of the road, use of existing bridge for access during construction, and the installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project assumes realignment of the existing roadway and use of the existing bridge during construction.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	579,000	0	0	0	0	0	0	0	579,000
Inspection	0	0	0	0	0	0	0	0	0
Utilities	23,000	0	0	0	0	0	0	0	23,000
Total Cost	614,000	0	0	0	0	0	0	0	614,000

Funding Sources:

General Fund	577,000	0	0	0	0	0	0	0	577,000
Tax Supported Bond	37,000	0	0	0	0	0	0	0	37,000
Total Funding	614,000	0	0	0	0	0	0	0	614,000

Project Title: **Cleaning and Painting of Steel Bridges**

Project Number: **1042**

Account Number: **BRG082**

Projected Annual FTE's: **0**

Projected Operating Costs: **\$0**

Description:

The project consists of cleaning and painting various steel beam bridges throughout the county.

Assumptions & Justifications:

The project is essential to maintain and extend the useful life of the structure.

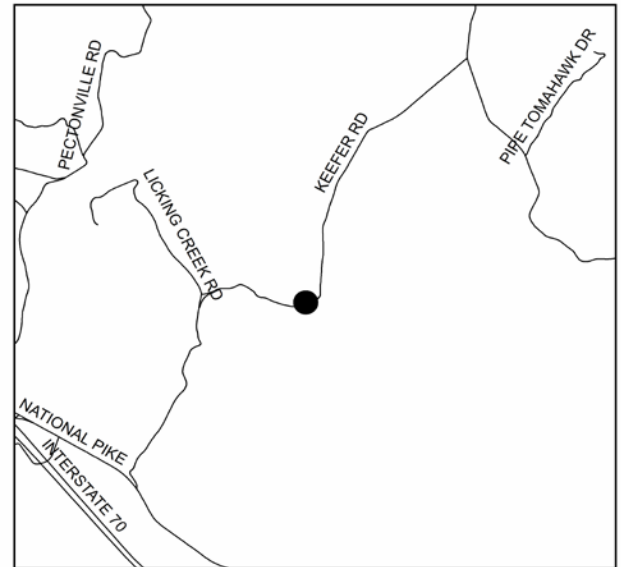
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	367,000	0	367,000	0	0	0	0	0	0
Inspection	41,000	0	41,000	0	0	0	0	0	0
Total Cost	408,000	0	408,000	0	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	408,000	0	408,000	0	0	0	0	0	0
Total Funding	408,000	0	408,000	0	0	0	0	0	0

Project Title: Keefer Road Bridge 15/20**Project Number: 1045****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 12800 block of Keefer Road (ADC Map 16, Grid J-1). The project will replace a steel stringer/timber deck with a single lane concrete slab bridge and install an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Mt. Tabor Road Bridge 13/03.

The project is needed to extend the useful life of this structure in a cost effective manner and improve vehicle safety.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	11,000	0	0	0	0
Construction	156,000	0	0	0	39,000	117,000	0	0	0
Inspection	27,000	0	0	0	27,000	0	0	0	0
Total Cost	194,000	0	0	0	77,000	117,000	0	0	0

Funding Sources:

General Fund	194,000	0	0	0	77,000	117,000	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	194,000	0	0	0	77,000	117,000	0	0	0

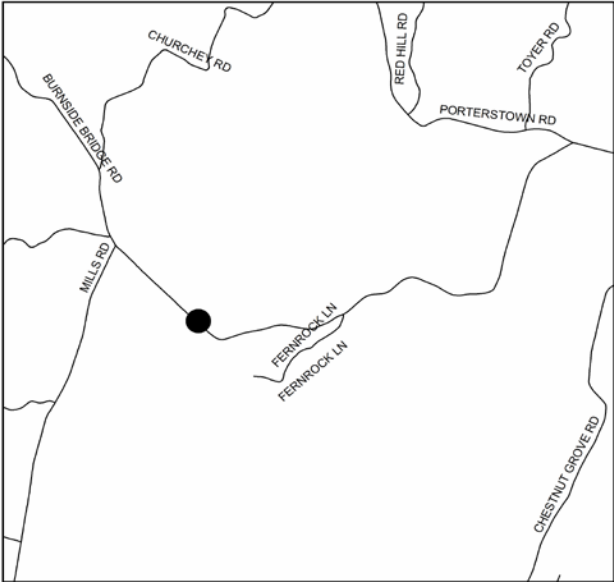
Project Title: Burnside Bridge Road Culvert 01/03

Project Number: 1046

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 18900 block of Burnside Bridge Road (ADC Map 34, Grid E-4). The project will replace the concrete slab with a precast concrete box culvert and headwalls.

Assumptions & Justifications:

The project is needed to replace a structure that is near the end of its useful life and to improve safety.

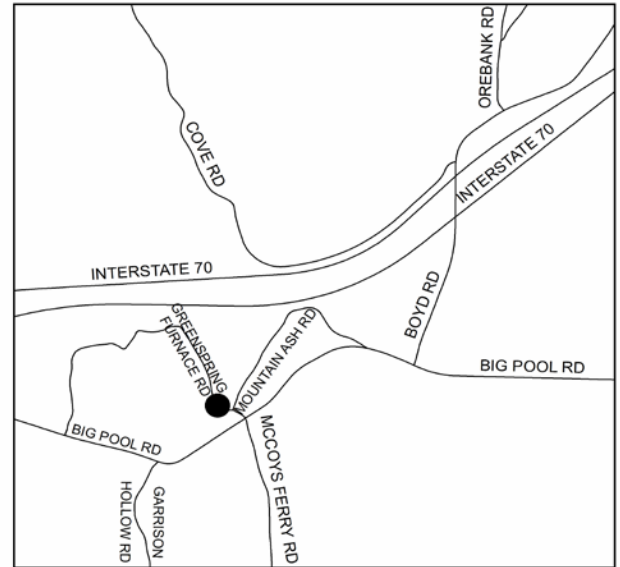
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	11,000	0
Construction	269,000	0	0	0	0	0	0	83,000	186,000
Inspection	33,000	0	0	0	0	0	0	0	33,000
Utilities	22,000	0	0	0	0	0	0	22,000	0
Total Cost	335,000	0	0	0	0	0	0	116,000	219,000

Funding Sources:

General Fund	335,000	0	0	0	0	0	0	116,000	219,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	335,000	0	0	0	0	0	0	116,000	219,000

Project Title: Greenspring Furnace Road Culvert 15/15**Project Number: 1047****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located on Greenspring Furnace Road (ADC Map 17, Grid G-8). The project will replace the single lane concrete slab with a two cell concrete box culvert with headwalls.

Assumptions & Justifications:

The project assumes temporary roadway stream/culvert crossing during construction.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

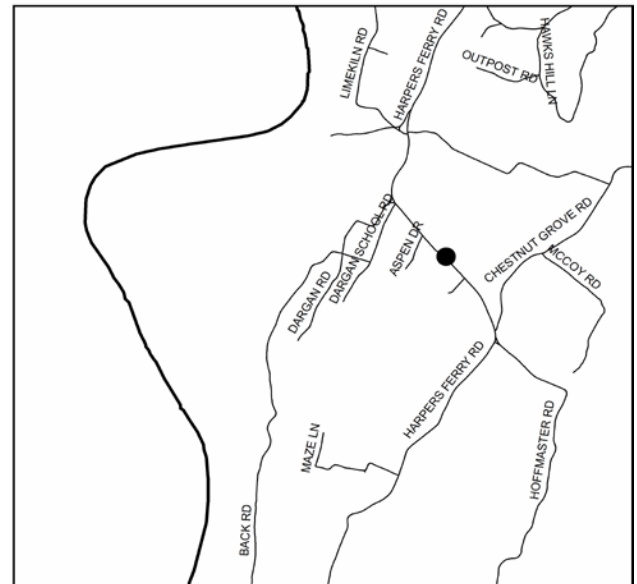
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	11,000	0	0	0
Construction	342,000	0	0	0	0	36,000	306,000	0	0
Inspection	32,000	0	0	0	0	0	32,000	0	0
Utilities	22,000	0	0	0	0	22,000	0	0	0
Total Cost	407,000	0	0	0	0	69,000	338,000	0	0

Funding Sources:

General Fund	69,000	0	0	0	0	69,000	0	0	0
Tax Supported Bond	338,000	0	0	0	0	0	338,000	0	0
Total Funding	407,000	0	0	0	0	69,000	338,000	0	0

Project Title: Harpers Ferry Road Culvert 11/02**Project Number: 1048****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 2300 block of Harpers Ferry Road (ADC Map 36, Grid G-1). The project will replace the concrete slab with a two cell concrete box culvert and headwalls. The project will include installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Back Road Culvert 11/03.

The project is needed to replace a structure thats near the end of its useful life and to improve vehicle safety.

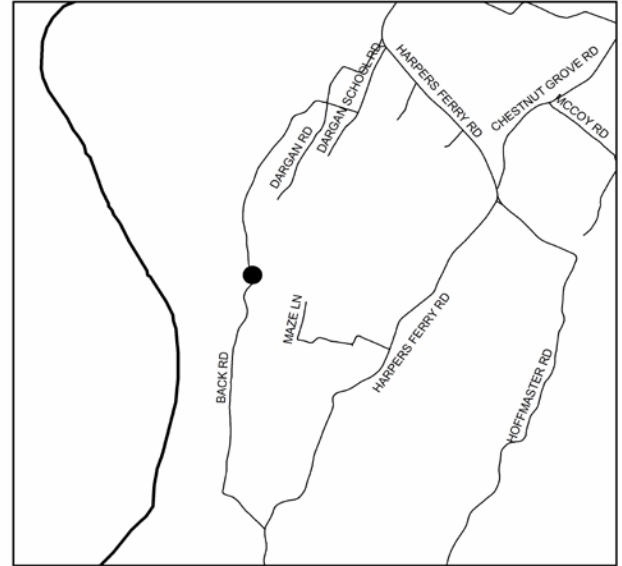
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	11,000	0	0
Construction	476,000	0	0	0	0	0	0	476,000	0
Inspection	40,000	0	0	0	0	0	0	40,000	0
Utilities	22,000	0	0	0	0	0	22,000	0	0
Total Cost	549,000	0	0	0	0	0	33,000	516,000	0

Funding Sources:

General Fund	33,000	0	0	0	0	0	33,000	0	0
Tax Supported Bond	516,000	0	0	0	0	0	0	516,000	0
Total Funding	549,000	0	0	0	0	0	33,000	516,000	0

Project Title: Back Road Culvert 11/03**Project Number: 1049****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project is located in the 1800 Block of Back Road. The work consists of replacing the existing concrete slab bridge with a concrete box culvert and headwalls. The project will install the appropriate safety measures including marking and a traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Harpers Ferry Road Culvert 11/02.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

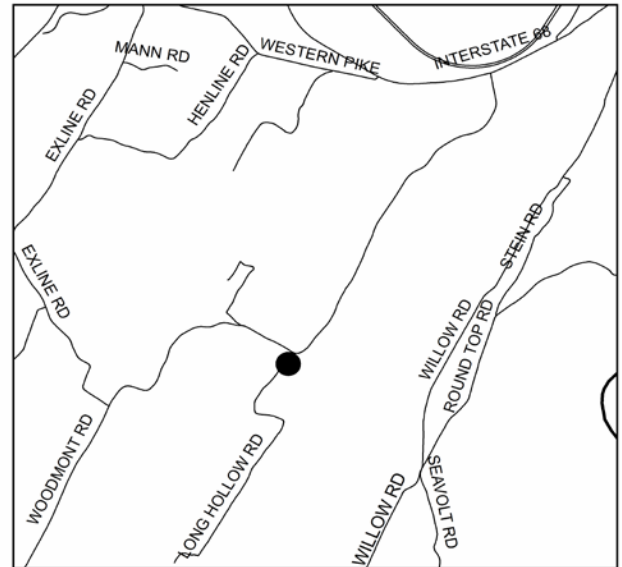
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	11,000	0	0	0
Construction	237,000	0	0	0	0	0	237,000	0	0
Inspection	32,000	0	0	0	0	0	32,000	0	0
Utilities	22,000	0	0	0	0	22,000	0	0	0
Total Cost	302,000	0	0	0	0	33,000	269,000	0	0

Funding Sources:

General Fund	122,000	0	0	0	0	33,000	89,000	0	0
Tax Supported Bond	180,000	0	0	0	0	0	180,000	0	0
Total Funding	302,000	0	0	0	0	33,000	269,000	0	0

Project Title: Long Hollow Road Culvert 05/07**Project Number: 1050****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 13000 block of Long Hollow Road (ADC Map 2, Grid D-12). The project will replace the concrete slab with a concrete box culvert and headwalls. The project will also provide for the installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Henline Road Culvert 05/05 and Hoffman's Inn Road 05/06.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

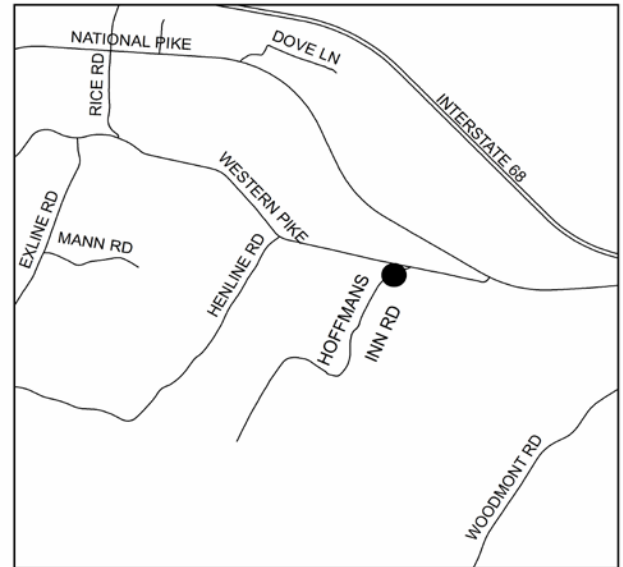
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	11,000	0	0
Construction	240,000	0	0	0	0	0	32,000	208,000	0
Inspection	32,000	0	0	0	0	0	0	32,000	0
Utilities	22,000	0	0	0	0	0	7,000	15,000	0
Total Cost	305,000	0	0	0	0	0	50,000	255,000	0

Funding Sources:

General Fund	50,000	0	0	0	0	0	50,000	0	0
Tax Supported Bond	255,000	0	0	0	0	0	0	255,000	0
Total Funding	305,000	0	0	0	0	0	50,000	255,000	0

Project Title: Hoffman's Inn Road Culvert 05/06**Project Number: 1051****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 2500 block of Hoffman's Inn Road (ADC Map 2, Grid D-8). The project will replace the concrete slab with a concrete box culvert and headwalls. The project will provide for the installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Long Hollow Road Culvert 05/07 and Henline Road Culvert 05/05.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

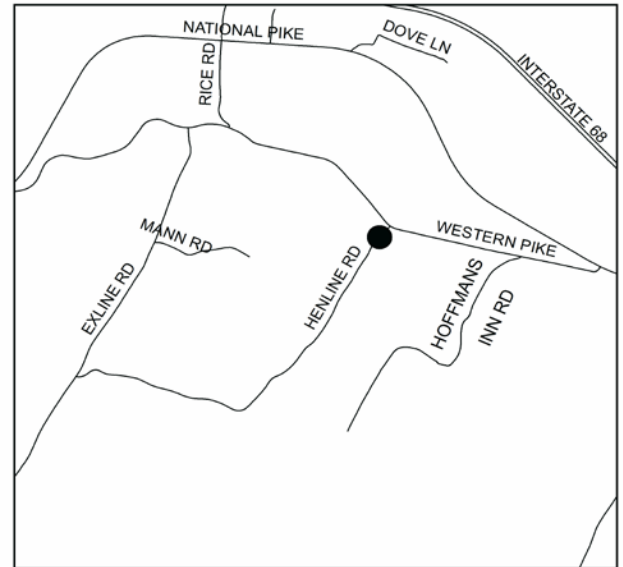
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	11,000	0
Construction	243,000	0	0	0	0	0	0	129,000	114,000
Inspection	32,000	0	0	0	0	0	0	0	32,000
Utilities	22,000	0	0	0	0	0	0	22,000	0
Total Cost	308,000	0	0	0	0	0	0	162,000	146,000

Funding Sources:

General Fund	229,000	0	0	0	0	0	0	83,000	146,000
Tax Supported Bond	79,000	0	0	0	0	0	0	79,000	0
Total Funding	308,000	0	0	0	0	0	0	162,000	146,000

Project Title: Henline Road Culvert 05/05**Project Number: 1052****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 3200 block of Henline Road (ADC Map 2, Grid C-8). The project will replace the concrete slab with a concrete box culvert and headwalls. The project will provide for the installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Longmeadow Road Culvert 05/07 and Hoffman's Inn Road Culvert 05/06.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	11,000	0
Construction	382,000	0	0	0	0	0	0	0	382,000
Inspection	41,000	0	0	0	0	0	0	0	41,000
Utilities	22,000	0	0	0	0	0	0	22,000	0
Total Cost	456,000	0	0	0	0	0	0	33,000	423,000

Funding Sources:

General Fund	456,000	0	0	0	0	0	0	33,000	423,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	456,000	0	0	0	0	0	0	33,000	423,000

Project Title: Bridge Scour Repairs

Project Number: 1086

Account Number: BRG081

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will perform bridge scour countermeasures on several bridges throughout the County. The repairs will include either providing concrete collars, grout bags, or riprap to stabilize the foundations of the bridges.

Assumptions & Justifications:

The major bridge inspection program revealed the need to address this issue and documented the bridges needing the repairs.

The project is needed to extend the useful life of the structures in a cost effective manner and to maintain the structures in a serviceable condition. Failure to address these repairs could result in closure of the structures to traffic. Recent changes in the federal bridge inspection program required this activity.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	449,000	204,000	17,000	0	0	0	0	0	228,000
Total Cost	449,000	204,000	17,000	0	0	0	0	0	228,000

Funding Sources:

General Fund	245,000	0	17,000	0	0	0	0	0	228,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	204,000	204,000	0	0	0	0	0	0	0
Total Funding	449,000	204,000	17,000	0	0	0	0	0	228,000

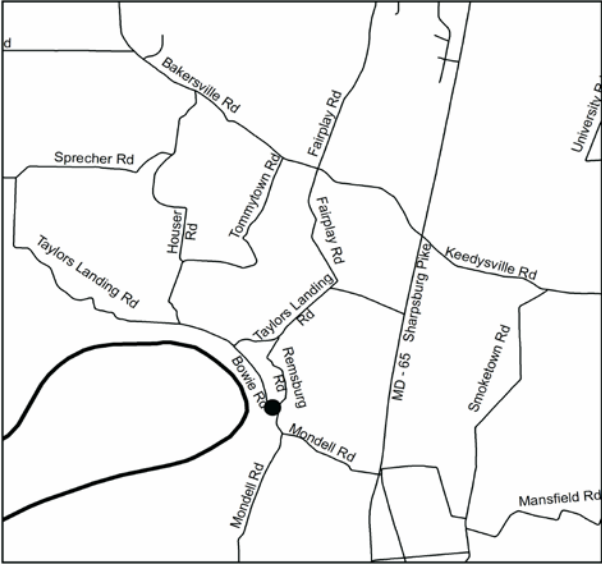
Project Title: Bowie Road Culvert

Project Number: 1095

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 6600 Block of Bowie Road (ADC Map 30, Grid H-6). The project will replace the culverts with a precast concrete box culvert and headwalls.

Assumptions & Justifications:

The project will be done in conjunction with Remsburg Road Culvert.

The project is needed to replace a structure that is near the end of its useful life and to increase the structure size to reduce frequency of roadway overtopping.

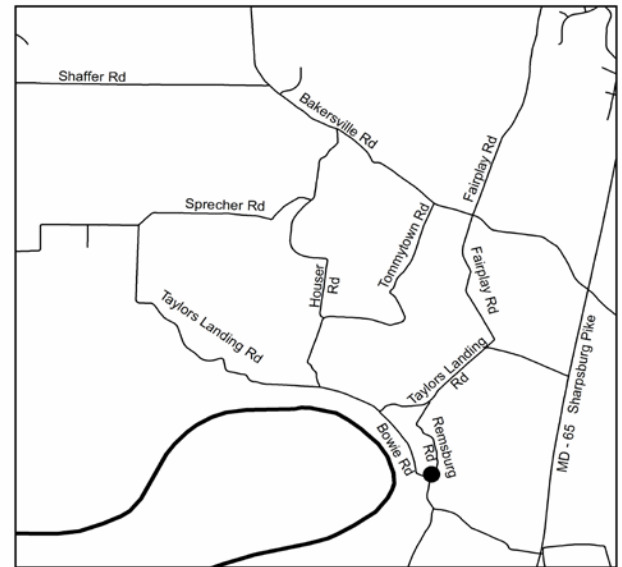
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	11,000	0
Construction	228,000	0	0	0	0	0	0	0	228,000
Inspection	33,000	0	0	0	0	0	0	0	33,000
Utilities	22,000	0	0	0	0	0	0	22,000	0
Total Cost	294,000	0	0	0	0	0	0	33,000	261,000

Funding Sources:

General Fund	294,000	0	0	0	0	0	0	33,000	261,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	294,000	0	0	0	0	0	0	33,000	261,000

Project Title: Rensburg Road Culvert**Project Number: 1096****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project is located in the 6600 Block of Rensburg Road (ADC Map 30, Grid H-6). The project will replace the culverts with a precast concrete box culvert and headwalls. The project will raise the existing roadway elevation at crossing to reduce overtopping.

Assumptions & Justifications:

The project is to be done in conjunction with Bowie Road Culvert.

The project is needed to replace a structure that is near the end of its useful life and will increase the structure size to reduce the frequency of roadway overtopping.

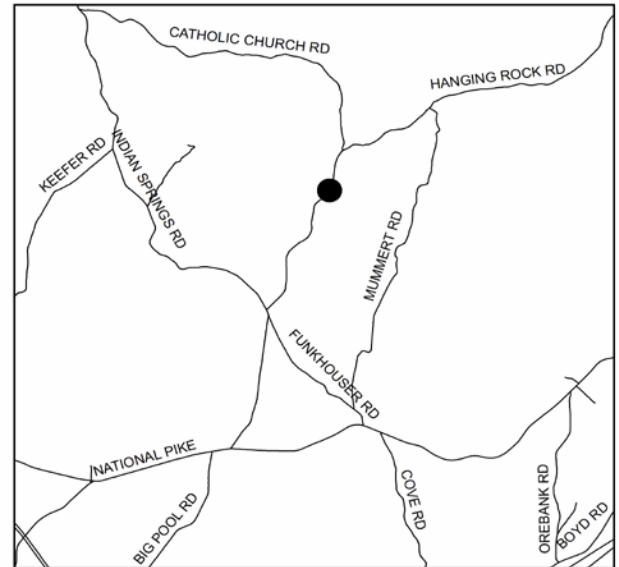
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	0	11,000
Construction	241,000	0	0	0	0	0	0	0	241,000
Inspection	33,000	0	0	0	0	0	0	0	33,000
Utilities	23,000	0	0	0	0	0	0	0	23,000
Total Cost	308,000	0	0	0	0	0	0	0	308,000

Funding Sources:

General Fund	308,000	0	0	0	0	0	0	0	308,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	308,000	0	0	0	0	0	0	0	308,000

Project Title: Lanes Road Culvert 15/12**Project Number: 1131****Account Number: DNG020****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 12900 block of Lanes Road (ADC Map 6, D-12). The project will replace the deteriorated two lane concrete slab bridge with a precast box culvert. An upgraded traffic barrier will be added as well to improve safety.

Assumptions & Justifications:

The structure needs to be replaced due to its advanced deterioration as it is nearing the end of its useful life. Due to the structure type, no practical long term repair options exist.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	11,000	0	0	0
Construction	259,000	0	0	0	0	0	259,000	0	0
Inspection	32,000	0	0	0	0	0	32,000	0	0
Utilities	22,000	0	0	0	0	22,000	0	0	0
Total Cost	324,000	0	0	0	0	33,000	291,000	0	0

Funding Sources:

General Fund	324,000	0	0	0	0	33,000	291,000	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	324,000	0	0	0	0	33,000	291,000	0	0

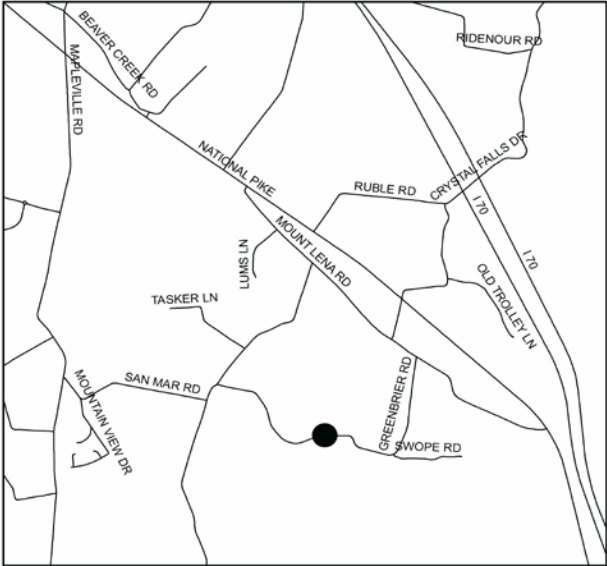
Project Title: Greenbrier Road Culvert 16/14

Project Number: 1132

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located near Greenbrier State Park (ADC Map 27, H-9). The project will replace the deteriorated two lane corrugated metal pipe culvert with a precast box culvert. An upgraded traffic barrier will be added as well to improve safety.

Assumptions & Justifications:

The structure needs to be replaced due to its advanced deterioration as it is nearing the end of its useful life. Due to the structure type, no practical long term repair options exist.

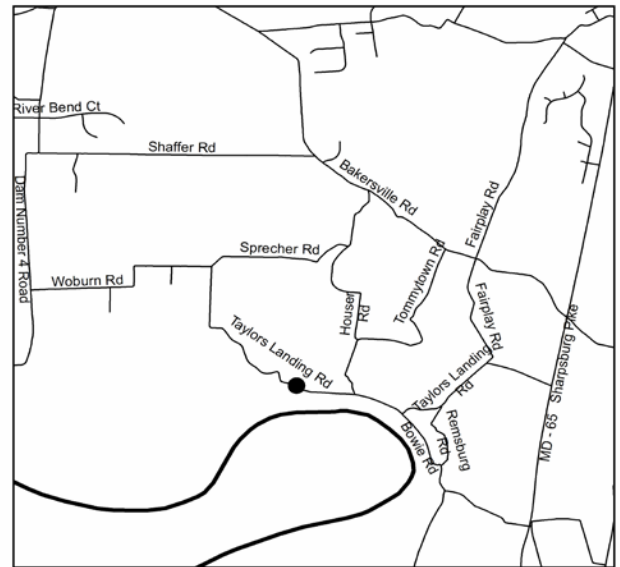
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	253,000	0	0	0	0	0	0	0	253,000
Inspection	34,000	0	0	0	0	0	0	0	34,000
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	323,000	0	0	0	0	0	0	0	323,000

Funding Sources:

General Fund	323,000	0	0	0	0	0	0	0	323,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	323,000	0	0	0	0	0	0	0	323,000

Project Title: Taylors Landing Road Bridge W7101**Project Number: 1133****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project is located in the 17000 block of Taylors Landing Road (ADC Map 30, E-4). The project will replace a deteriorated corrugated metal pipe culvert with a precast concrete arch culvert. An upgraded traffic barrier will be added as well to improve safety.

Assumptions & Justifications:

The structure needs to be replaced due to its advanced deterioration as it is nearing the end of its useful life. Due to the structure type, no practical long term repair options exist.

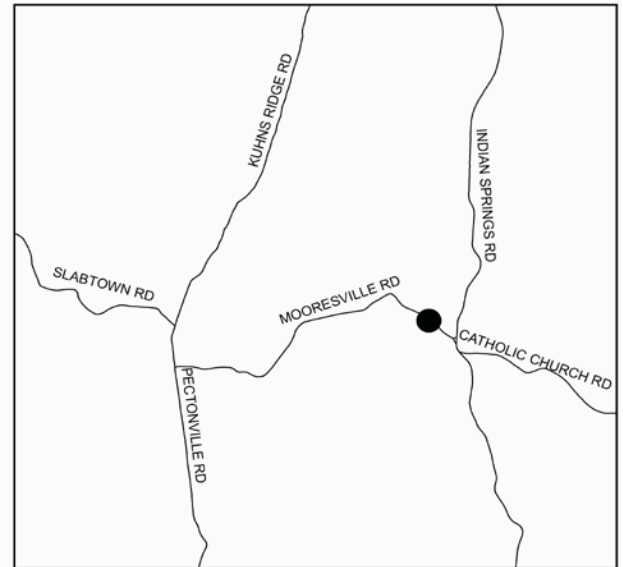
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	480,000	0	0	0	0	0	0	0	480,000
Inspection	0	0	0	0	0	0	0	0	0
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	516,000	0	0	0	0	0	0	0	516,000

Funding Sources:

General Fund	516,000	0	0	0	0	0	0	0	516,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	516,000	0	0	0	0	0	0	0	516,000

Project Title: Mooresville Road Culvert 15/21**Project Number: 1206****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 10200 Block of Mooresville Road (ADC Map 5, Grid K-9). The project will replace a deteriorated multiple corrugated metal pipe culvert with a new precast concrete box culvert.

Assumptions & Justifications:

The project is needed to replace a structure that is near the end of its useful life. Due to the structure type, no practical long term repair options exist. Traffic barrier upgrades will also improve traffic safety.

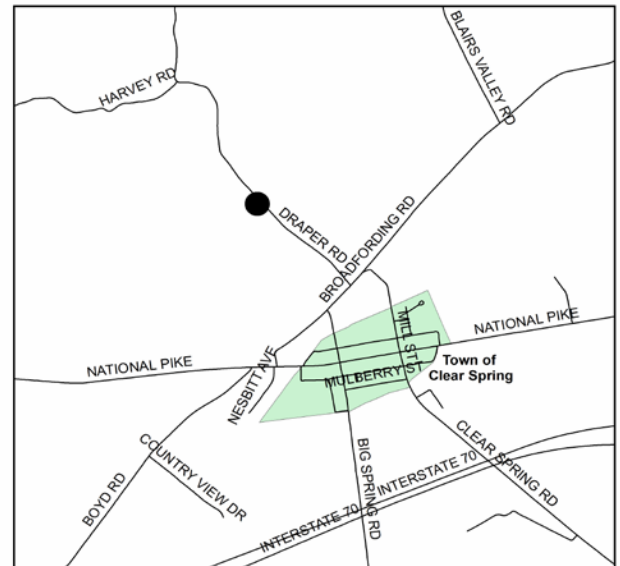
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	280,000	0	0	0	0	0	0	0	280,000
Inspection	43,000	0	0	0	0	0	0	0	43,000
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	359,000	0	0	0	0	0	0	0	359,000

Funding Sources:

General Fund	359,000	0	0	0	0	0	0	0	359,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	359,000	0	0	0	0	0	0	0	359,000

Project Title: Draper Road Culvert 04/07**Project Number: 1210****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 12700 Block of Draper Road (ADC Map 18, Grid B-1). The project will replace the concrete slab with a new precast concrete box culvert.

Assumptions & Justifications:

The project is needed to replace a structure that is near the end of its useful life. Due to the structure type, no practical long term repair options exist. Traffic barrier upgrades will also improve traffic safety.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	0	0	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	36,000	0	0	0	0	0	0	0	36,000

Funding Sources:

General Fund	36,000	0	0	0	0	0	0	0	36,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	36,000	0	0	0	0	0	0	0	36,000

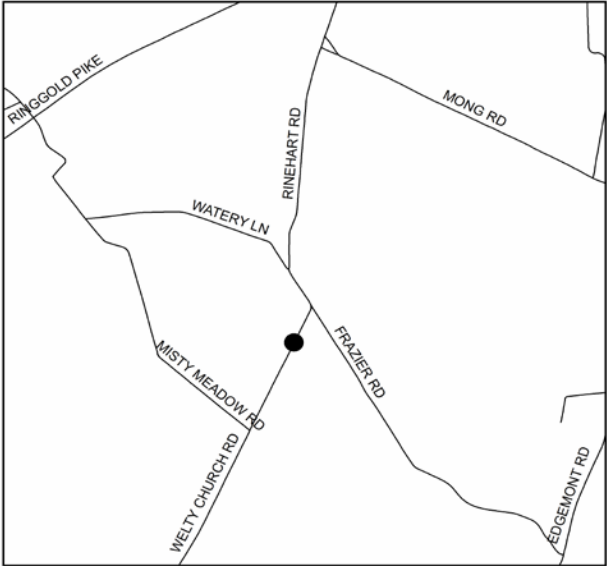
Project Title: Welty Church Road Culvert 14/06

Project Number: 1212

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 23500 block of Welty Church Road (ADC Map 12, Grid J-7). The project will replace the corrugated metal pipe arch with a concrete box culvert with headwalls.

Assumptions & Justifications:

The bridge is in a condition beyond serviceable repair.

This bridge is structurally and functionally deficient and requires replacement.

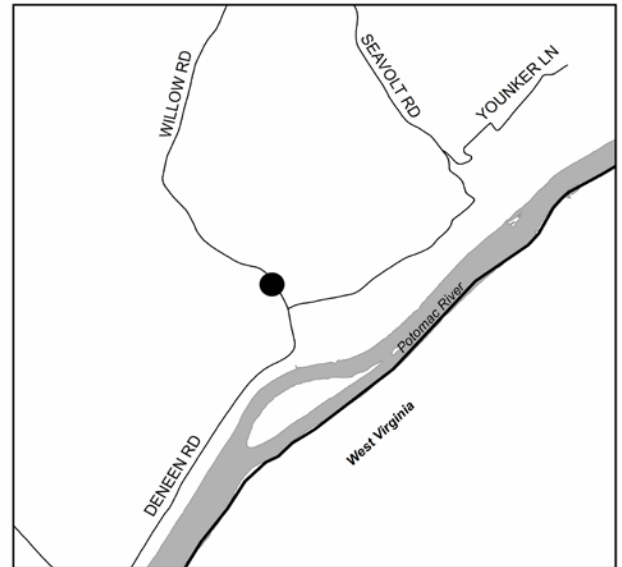
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	0	0	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	36,000	0	0	0	0	0	0	0	36,000

Funding Sources:

General Fund	36,000	0	0	0	0	0	0	0	36,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	36,000	0	0	0	0	0	0	0	36,000

Project Title: Willow Road Culvert 05/10**Project Number:** 1213**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

This project is located in the 12400 block of Willow Road (ADC Map 15, Grid F-4). The project will replace the concrete slab with a concrete box culvert with headwalls.

Assumptions & Justifications:

The bridge is in a condition beyond serviceable repair.

This bridge is structurally and functionally deficient and requires replacement.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	248,000	0	0	0	0	0	0	0	248,000
Inspection	42,000	0	0	0	0	0	0	0	42,000
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	326,000	0	0	0	0	0	0	0	326,000

Funding Sources:

General Fund	326,000	0	0	0	0	0	0	0	326,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	326,000	0	0	0	0	0	0	0	326,000

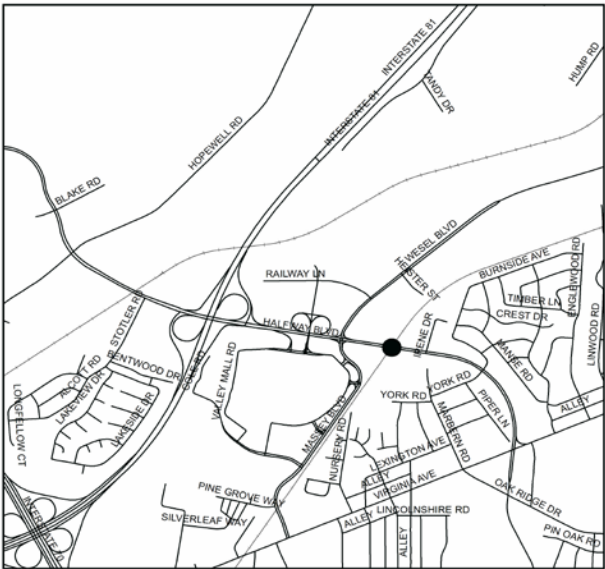
Project Title: Halfway Boulevard Bridges W0912

Project Number: 1299

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project involves repairing the eastbound and westbound bridges of Halfway Boulevard over the Norfolk Southern railroad (ADC Map 20, H-8). The project will include cleaning and painting of steel beams, replacement of bearings and expansion joints, concrete repairs to the substructure and superstructure, traffic barrier improvements, and minor paving work.

Assumptions & Justifications:

The project is proposed as a Federal Aid project with 80/20 cost share for construction.

The project is essential to maintain and extend the useful life of the structure. The Bridge Sufficiency Rating is 49.4 out of a maximum possible score of 100.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	104,000	0	0	104,000	0	0	0	0	0
Construction	1,906,000	0	0	0	0	1,026,000	880,000	0	0
Inspection	110,000	0	0	0	0	0	110,000	0	0
Total Cost	2,120,000	0	0	104,000	0	1,026,000	990,000	0	0

Funding Sources:

General Fund	595,000	0	0	104,000	0	205,000	286,000	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	1,525,000	0	0	0	0	821,000	704,000	0	0
Total Funding	2,120,000	0	0	104,000	0	1,026,000	990,000	0	0

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Drainage

Drainage
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs											
<u>Drainage</u>											
88	Stream Restoration at Various Locations	2,338,194	881,194	0	416,000	0	43,000	440,000	0	558,000	
89	Stormwater Retrofits	10,621,900	2,114,900	0	878,000	894,000	912,000	928,000	945,000	3,950,000	
90	Shank Road Drainage	156,000	0	0	0	156,000	0	0	0	0	
91	Hoffmaster and Harpers Ferry Road Drainage	887,000	0	0	436,000	451,000	0	0	0	0	
92	Harpers Ferry Road Drainage, 3600 Block	384,000	0	0	0	64,000	320,000	0	0	0	
93	Brookfield Avenue Drainage	111,000	0	0	0	111,000	0	0	0	0	
94	Broadfording Church Road Culvert	236,000	0	0	0	236,000	0	0	0	0	
95	Pondsville Road Drainage	163,000	10,000	153,000	0	0	0	0	0	0	
96	Bottom Road Drainage	256,000	0	256,000	0	0	0	0	0	0	
97	Independence Road, 12600 Block	76,000	0	76,000	0	0	0	0	0	0	
98	Chestnut Grove Road Drainage	86,000	0	0	0	0	86,000	0	0	0	
Drainage Total		15,315,094	3,006,094	485,000	1,730,000	1,912,000	1,361,000	1,368,000	945,000	4,508,000	
Funding Sources											
General Fund		2,972,600	469,600	53,000	436,000	567,000	449,000	440,000	0	558,000	
Tax Supported Bond		9,740,900	350,900	432,000	878,000	1,345,000	912,000	928,000	945,000	3,950,000	
Capital Reserve - General		2,211,594	1,795,594	0	416,000	0	0	0	0	0	
Federal Grant		390,000	390,000	0	0	0	0	0	0	0	
		15,315,094	3,006,094	485,000	1,730,000	1,912,000	1,361,000	1,368,000	945,000	4,508,000	

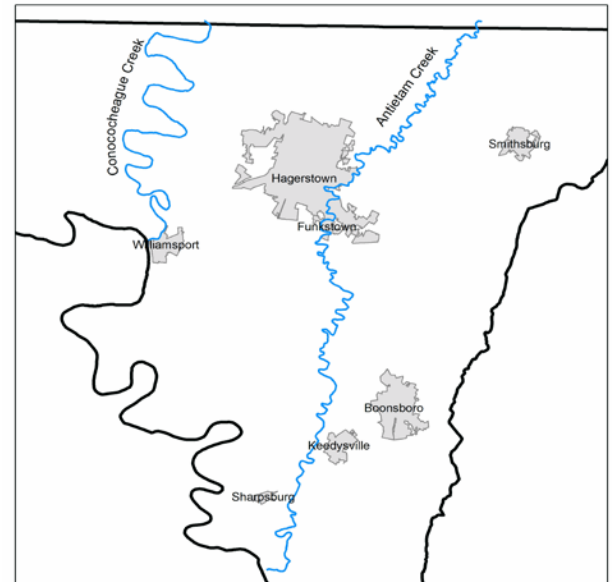
Project Title: Stream Restoration at Various Locations

Project Number: 1009

Account Number: DNG030

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will restore stream banks at various locations on Antietam Creek and Conococheague Creek to improve water quality.

Assumptions & Justifications:

It is anticipated that the Smithsburg Wastewater Treatment Plant Stream restoration project will be completed with local funding from FY18. Stream restoration projects for FY21 and FY24 are yet to be determined.

Maryland has imposed total maximum daily load requirements (TMDL) on Antietam Creek and Conococheague Creek. This requirement will restrict land development over time unless dealt with by mitigation measures. Stream restoration will improve water quality and allow for future development.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	218,600	81,600	0	0	0	43,000	0	0	94,000
Construction	2,119,594	799,594	0	416,000	0	0	440,000	0	464,000
Total Cost	2,338,194	881,194	0	416,000	0	43,000	440,000	0	558,000

Funding Sources:

General Fund	1,466,600	425,600	0	0	0	43,000	440,000	0	558,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	481,594	65,594	0	416,000	0	0	0	0	0
Federal Grant	390,000	390,000	0	0	0	0	0	0	0
Total Funding	2,338,194	881,194	0	416,000	0	43,000	440,000	0	558,000

Project Title: Stormwater Retrofits

Project Number: 1125

Account Number: DNG039

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project includes the construction of SWM systems based on Best Management Practices such as bio-swales, bio-filters, permeable pavements, ponds, wetlands, etc. along roadways, in parks, and on other county properties to satisfy the National Pollutant Discharge Elimination Systems (NPDES) requirements established by the MDE.

Assumptions & Justifications:

The project will provide treatment for 20% of the impervious surfaces within the regulated NPDES area estimated to be 2,900 acres, treating 580 acres per year. County is working with Army Corps of Engineers (ACOE) to inventory county stormwater infrastructure.

The project is requested due to a regulatory requirement imposed by the EPA and MDE.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	337,500	96,500	0	25,000	25,000	26,000	26,000	27,000	112,000
Land Acquisition	282,400	80,400	0	21,000	21,000	22,000	22,000	22,000	94,000
Construction	10,002,000	1,938,000	0	832,000	848,000	864,000	880,000	896,000	3,744,000
Total Cost	10,621,900	2,114,900	0	878,000	894,000	912,000	928,000	945,000	3,950,000

Funding Sources:

General Fund	44,000	44,000	0	0	0	0	0	0	0
Tax Supported Bond	8,857,900	350,900	0	878,000	894,000	912,000	928,000	945,000	3,950,000
Excise Tax - Other	0	0	0	0	0	0	0	0	0
Capital Reserve - General	1,720,000	1,720,000	0	0	0	0	0	0	0
Total Funding	10,621,900	2,114,900	0	878,000	894,000	912,000	928,000	945,000	3,950,000

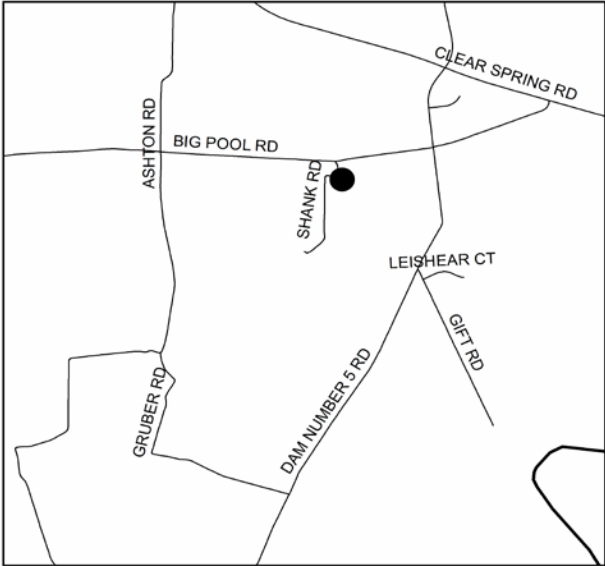
Project Title: Shank Road Drainage

Project Number: 1134

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project is located near Big Pool Road in Clear Spring (ADC Map 18, G-7). The project will stabilize the stream bank and roadway embankment.

Assumptions & Justifications:

The existing retaining wall is collapsing into the adjacent stream. Failure of the wall will cause properties to become inaccessible for emergency services and will cause more costly damage.

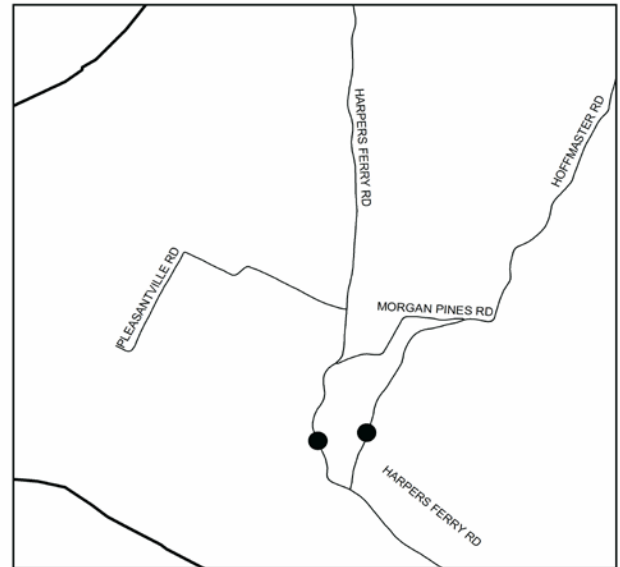
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	2,000	0	0	0	2,000	0	0	0	0
Construction	133,000	0	0	0	133,000	0	0	0	0
Inspection	21,000	0	0	0	21,000	0	0	0	0
Total Cost	156,000	0	0	0	156,000	0	0	0	0

Funding Sources:

General Fund	156,000	0	0	0	156,000	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	156,000	0	0	0	156,000	0	0	0	0

Project Title: Hoffmaster and Harpers Ferry Road Drainage**Project Number: 1135****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 700 block of Hoffmaster Road (ADC Map 36, F-9) and the 700 Block of Harpers Ferry Road (ADC Map 36, E-9). The project includes drainage improvements to stabilize the stream bank and roadway embankment.

Assumptions & Justifications:

The existing roadside retaining wall has collapsed in numerous locations. Conditions are causing a safety hazard for the motoring public. A collapsed retaining wall is blocking an adjacent stream which causes localized flooding during storm events.

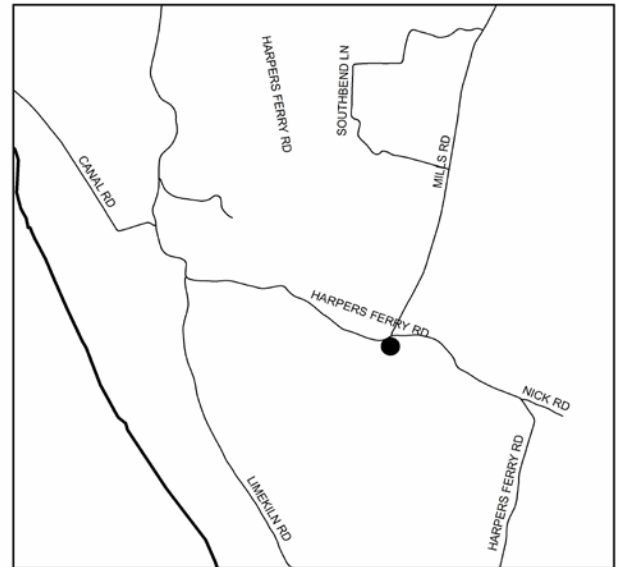
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	10,000	0	0	10,000	0	0	0	0	0
Construction	794,000	0	0	343,000	451,000	0	0	0	0
Inspection	62,000	0	0	62,000	0	0	0	0	0
Utilities	21,000	0	0	21,000	0	0	0	0	0
Total Cost	887,000	0	0	436,000	451,000	0	0	0	0

Funding Sources:

General Fund	436,000	0	0	436,000	0	0	0	0	0
Tax Supported Bond	451,000	0	0	0	451,000	0	0	0	0
Total Funding	887,000	0	0	436,000	451,000	0	0	0	0

Project Title: Harpers Ferry Road Drainage, 3600 Block**Project Number: 1136****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 3600 block of Harpers Ferry Road at the intersection with Mills Road (ADC Map 34, C-7). The project will replace the existing corrugated metal pipes with larger concrete pipes to reduce flooding impacts in this area.

Assumptions & Justifications:

The project is needed to provide cost effective road maintenance in this area. The frequency of flooding impacts the delivery of public safety services in that area of the county.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	11,000	0	0	0	0
Construction	281,000	0	0	0	0	281,000	0	0	0
Inspection	39,000	0	0	0	0	39,000	0	0	0
Utilities	53,000	0	0	0	53,000	0	0	0	0
Total Cost	384,000	0	0	0	64,000	320,000	0	0	0

Funding Sources:

General Fund	384,000	0	0	0	64,000	320,000	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	384,000	0	0	0	64,000	320,000	0	0	0

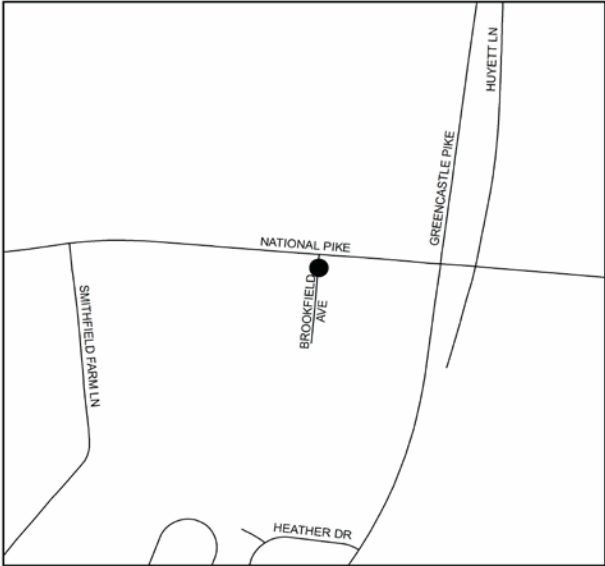
Project Title: Brookfield Avenue Drainage

Project Number: 1201

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located at the end of Brookfield Avenue (ADC Map 20, Grid B-4). The project will provide channel and culvert improvements which will correct road and property flooding.

Assumptions & Justifications:

This project is needed to correct road and property flooding problems and reduce structure maintenance.

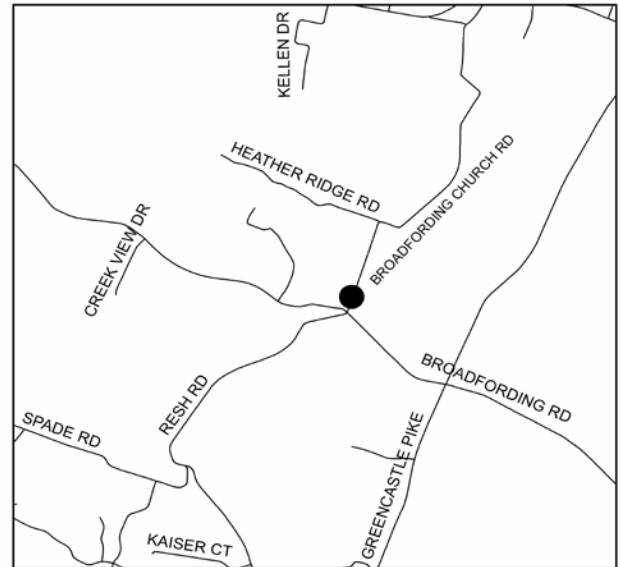
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	111,000	0	0	0	111,000	0	0	0	0
Total Cost	111,000	0	0	0	111,000	0	0	0	0

Funding Sources:

General Fund	111,000	0	0	0	111,000	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	111,000	0	0	0	111,000	0	0	0	0

Project Title: Broadfording Church Road Culvert**Project Number: 1244****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 13500 block of Broadfording Church Road (ADC Map 9, Grid C-10). The project will replace a stone/concrete drainage structure and end walls with a concrete pipe with concrete headwalls. The traffic barrier will be upgraded to improve safety.

Assumptions & Justifications:

The project is needed to replace a structure that is near the end of its useful life and improve vehicle safety.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	5,000	0	0	0	5,000	0	0	0	0
Construction	196,000	0	0	0	196,000	0	0	0	0
Inspection	32,000	0	0	0	32,000	0	0	0	0
Utilities	3,000	0	0	0	3,000	0	0	0	0
Total Cost	236,000	0	0	0	236,000	0	0	0	0

Funding Sources:

General Fund	236,000	0	0	0	236,000	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	236,000	0	0	0	236,000	0	0	0	0

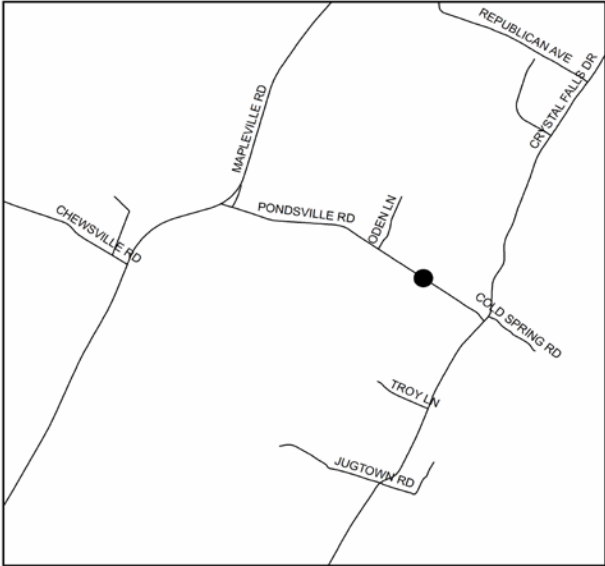
Project Title: Pondsville Road Drainage

Project Number: 1261

Account Number: DNG075

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project is located on Pondsville Road (ADC Map 23, C-8). The project will replace and provide new concrete drainage inlets and pipes to reduce flooding impacts in this area.

Assumptions & Justifications:

The project is needed to reduce road and property flooding problems.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	10,000	10,000	0	0	0	0	0	0	0
Construction	143,000	0	143,000	0	0	0	0	0	0
Inspection	10,000	0	10,000	0	0	0	0	0	0
Total Cost	163,000	10,000	153,000	0	0	0	0	0	0

Funding Sources:

Tax Supported Bond	153,000	0	153,000	0	0	0	0	0	0
Capital Reserve - General	10,000	10,000	0	0	0	0	0	0	0
Total Funding	163,000	10,000	153,000	0	0	0	0	0	0

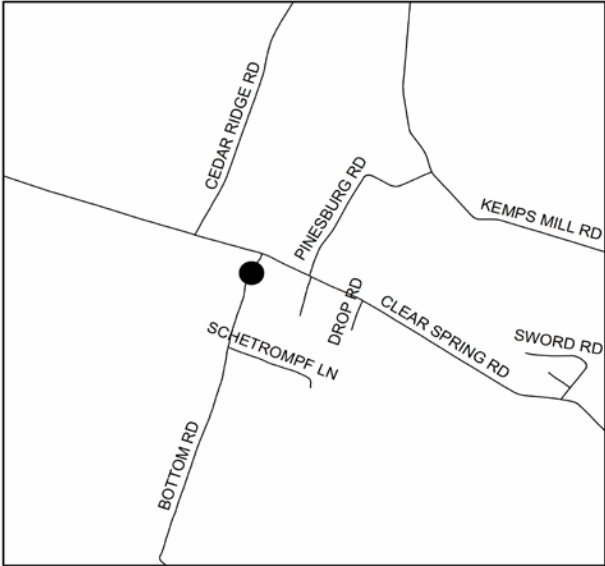
Project Title: Bottom Road Drainage

Project Number: 1301

Account Number: DNG072

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project is located at the intersection of Bottom Road and Maryland Route 68 (ADC Map 19, C-7). The project will provide drainage improvements that will correct road and property flooding.

Assumptions & Justifications:

The Maryland State Highway Administration will work with the County on this project and contribute funds to improve the drainage on Maryland Route 68. These contributions from SHA will be made as direct payments. The budget shown below reflects only the County portion.

This project is needed to correct road and property flooding problems and reduce road maintenance.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	26,000	0	26,000	0	0	0	0	0	0
Construction	204,000	0	204,000	0	0	0	0	0	0
Inspection	26,000	0	26,000	0	0	0	0	0	0
Total Cost	256,000	0	256,000	0	0	0	0	0	0

Funding Sources:

Tax Supported Bond	256,000	0	256,000	0	0	0	0	0	0
Total Funding	256,000	0	256,000	0	0	0	0	0	0

Project Title:

Independence Road, 12600 Block

Project Number:

1302

Account Number:

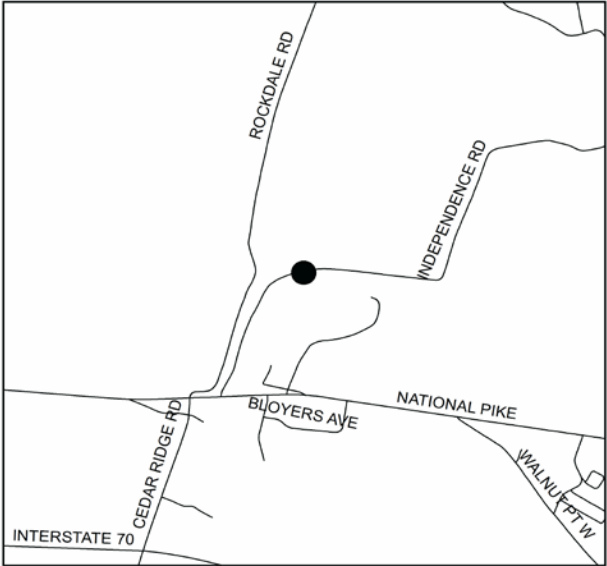
DNG076

Projected Annual FTE's:

0

Projected Operating Costs:

\$0



Description:

The project involves the repair of a retaining wall and drainage improvements along Independence Road at block 12600 (ADC Map 19, F-1).

Assumptions & Justifications:

This project is needed to correct road and drainage problems and reduce structure maintenance.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	66,000	0	66,000	0	0	0	0	0	0
Inspection	10,000	0	10,000	0	0	0	0	0	0
Total Cost	76,000	0	76,000	0	0	0	0	0	0

Funding Sources:

General Fund	53,000	0	53,000	0	0	0	0	0	0
Tax Supported Bond	23,000	0	23,000	0	0	0	0	0	0
Total Funding	76,000	0	76,000	0	0	0	0	0	0

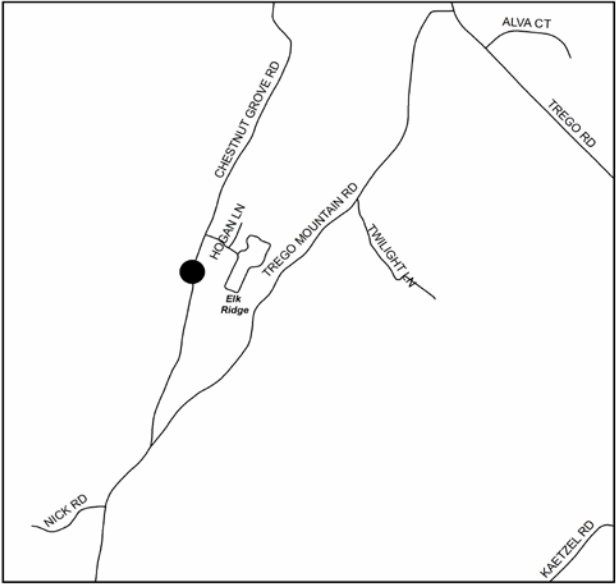
Project Title: Chestnut Grove Road Drainage

Project Number: 1303

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project is located on Chestnut Grove Road (ADC Map 34, H-6). The work includes construction of new culverts, water quality improvements, and minor road paving.

Assumptions & Justifications:

The project is needed to correct road and property flooding problems.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	5,000	0	0	0	0	5,000	0	0	0
Construction	76,000	0	0	0	0	76,000	0	0	0
Inspection	5,000	0	0	0	0	5,000	0	0	0
Total Cost	86,000	0	0	0	0	86,000	0	0	0

Funding Sources:

General Fund	86,000	0	0	0	0	86,000	0	0	0
Total Funding	86,000	0	0	0	0	86,000	0	0	0

Education

Education
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

		Budget Year		Ten Year Capital Program						
Page	Project	Total	Prior Appr.	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Project Costs										
Education										
Board of Education										
102	Relocatable Classrooms	936,000	0	0	0	0	0	0	0	936,000
103	Capital Maintenance - BOE	18,048,000	13,384,000	4,664,000	0	0	0	0	0	0
104	Jonathan Hager Elementary School	19,831,000	17,332,000	2,499,000	0	0	0	0	0	0
105	Sharpsburg Elementary School- Replacement	25,256,000	0	0	5,105,000	5,756,000	6,016,000	8,379,000	0	0
106	Western Heights Middle School Modernization	38,208,000	0	0	0	0	0	0	9,016,000	29,192,000
107	Springfield Middle School Modernization	8,400,000	0	0	0	0	0	0	0	8,400,000
Board of Education Total		110,679,000	30,716,000	7,163,000	5,105,000	5,756,000	6,016,000	8,379,000	9,016,000	38,528,000
Hagerstown Community College										
110	Learning Resource Center Renovation	3,226,000	95,000	1,095,000	1,085,000	951,000	0	0	0	0
111	Teacher Education Center	4,713,000	0	0	0	0	107,000	2,378,000	2,228,000	0
112	ARCC Air Conditioning	2,727,000	0	0	0	0	0	0	0	2,727,000
113	Campus Road & Parking Lot Overlays	2,693,000	0	0	0	0	0	0	0	2,693,000
114	Student Center Parking Lot	696,000	0	0	0	0	696,000	0	0	0
115	SMART/Alternative Energy House/Training Center	1,746,000	0	150,000	532,000	532,000	532,000	0	0	0
116	ATC Renovation & Addition	4,000,000	0	0	0	0	0	0	0	4,000,000
Hagerstown Community College Total		19,801,000	95,000	1,245,000	1,617,000	1,483,000	1,335,000	2,378,000	2,228,000	9,420,000
Public Libraries										
118	Systemic Projects - Library	116,300	16,300	10,000	10,000	10,000	10,000	10,000	10,000	40,000
119	Hancock Public Library	3,001,000	267,000	10,000	10,000	10,000	10,000	78,000	2,616,000	0
Public Libraries Total		3,117,300	283,300	20,000	20,000	20,000	20,000	88,000	2,626,000	40,000
Education Total		133,597,300	31,094,300	8,428,000	6,742,000	7,259,000	7,371,000	10,845,000	13,870,000	47,988,000
Funding Sources										
General Fund		6,026,100	3,618,100	510,000	414,000	10,000	10,000	10,000	10,000	1,444,000
Tax Supported Bond		33,074,100	3,536,100	1,431,000	720,000	2,679,000	2,136,000	5,319,000	3,130,000	14,123,000
Excise Tax - Schools		4,719,400	869,400	385,000	385,000	385,000	385,000	385,000	385,000	1,540,000
Excise Tax - Library		140,200	40,200	10,000	10,000	10,000	10,000	10,000	10,000	40,000
Excise Tax - Non-Residential		50,000	50,000	0	0	0	0	0	0	0
Capital Reserve - General		1,401,500	1,401,500	0	0	0	0	0	0	0
Federal Grant		646,000	0	646,000	0	0	0	0	0	0
State Grant		73,656,000	21,484,000	5,446,000	5,024,000	3,986,000	4,711,000	5,121,000	6,622,000	21,262,000
Contributions		13,884,000	95,000	0	189,000	189,000	119,000	0	3,713,000	9,579,000
		133,597,300	31,094,300	8,428,000	6,742,000	7,259,000	7,371,000	10,845,000	13,870,000	47,988,000

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Board of Education
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

		Budget			Ten Year Capital Program					
Page	Project	Total	Prior Appr.	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Project Costs										
Board of Education										
102	Relocatable Classrooms	936,000	0	0	0	0	0	0	0	936,000
103	Capital Maintenance - BOE	18,048,000	13,384,000	4,664,000	0	0	0	0	0	0
104	Jonathan Hager Elementary School	19,831,000	17,332,000	2,499,000	0	0	0	0	0	0
105	Sharpsburg Elementary School- Replacement	25,256,000	0	0	5,105,000	5,756,000	6,016,000	8,379,000	0	0
106	Western Heights Middle School Modernization	38,208,000	0	0	0	0	0	0	9,016,000	29,192,000
107	Springfield Middle School Modernization	8,400,000	0	0	0	0	0	0	0	8,400,000
Board of Education Total		110,679,000	30,716,000	7,163,000	5,105,000	5,756,000	6,016,000	8,379,000	9,016,000	38,528,000
Funding Sources										
	General Fund	5,364,000	3,550,000	500,000	0	0	0	0	0	1,314,000
	Tax Supported Bond	27,265,100	3,536,100	1,431,000	720,000	2,371,000	1,781,000	4,407,000	1,731,000	11,288,000
	Excise Tax - Schools	4,719,400	869,400	385,000	385,000	385,000	385,000	385,000	385,000	1,540,000
	Excise Tax - Non-Residential	50,000	50,000	0	0	0	0	0	0	0
	Capital Reserve - General	1,401,500	1,401,500	0	0	0	0	0	0	0
	State Grant	59,679,000	21,309,000	4,847,000	4,000,000	3,000,000	3,850,000	3,587,000	3,900,000	15,186,000
	Contributions	12,200,000	0	0	0	0	0	0	3,000,000	9,200,000
		110,679,000	30,716,000	7,163,000	5,105,000	5,756,000	6,016,000	8,379,000	9,016,000	38,528,000

Project Title: Relocatable Classrooms

Project Number: 80

Account Number: SCH008

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will install relocatable classrooms at sites to be determined by enrollment projections.

Assumptions & Justifications:

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	936,000	0	0	0	0	0	0	0	936,000
Total Cost	936,000	0	0	0	0	0	0	0	936,000

Funding Sources:

General Fund	936,000	0	0	0	0	0	0	0	936,000
Total Funding	936,000	0	0	0	0	0	0	0	936,000

Project Title: Capital Maintenance - BOE

Project Number: 81

Account Number: SCH006

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

Projects vary depending on the conditions, safety, security, and utility requirements. The Comprehensive Maintenance Plan outlines specific projects over the next five years. Projects include improved lighting, sidewalk replacements, paving repairs, flooring repairs, door replacement, large painting projects, locker replacement, interior renovations, and security system installations. Projects are targeted to reduce deferred maintenance.

Assumptions & Justifications:

\$500,000 local funding provided for FY 2017

The project consists of ongoing maintenance improvements of the system outside of the operating budget.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Architect Fees	0	0	0	0	0	0	0	0	0
Construction	18,047,900	13,383,900	4,664,000	0	0	0	0	0	0
Equipment/Furniture	100	100	0	0	0	0	0	0	0
Total Cost	18,048,000	13,384,000	4,664,000	0	0	0	0	0	0

Funding Sources:

General Fund	2,250,000	1,750,000	500,000	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	1,250,000	1,250,000	0	0	0	0	0	0	0
Federal Grant	0	0	0	0	0	0	0	0	0
State Grant	14,548,000	10,384,000	4,164,000	0	0	0	0	0	0
Total Funding	18,048,000	13,384,000	4,664,000	0	0	0	0	0	0

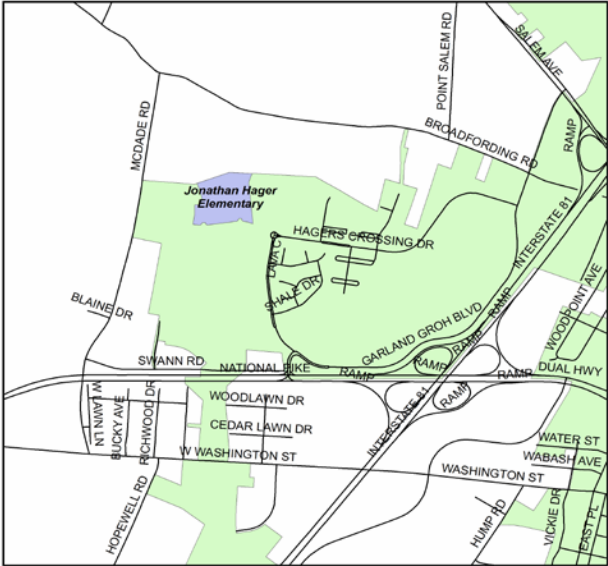
Project Title: Jonathan Hager Elementary School

Project Number: 950

Account Number: SCH032

Projected Annual FTE's: 0

Projected Operating Costs: \$5,000



Description:

A new 56,818 SF facility to house a 3-round, Pre-K through 5th Grade elementary school with a capacity of 471 students, with a core space sized for a 5-round school to accommodate future expansion. Provisions have been made within this budget request for an expanded gymnasium for community use in partnership with the Buildings, Grounds and Parks Department. This project will allow the closing and consolidation of two aging, inadequate elementary school facilities: Winter Street and Conococheague Elementary.

Assumptions & Justifications:

- The cost of land is not included in this budget
- Assumes 70% state reimbursement on construction
- Assumes 100% local share on engineering, design, furniture

Projected housing developments will cause enrollment growth to the west and north of the City of Hagerstown, requiring a need for additional seat capacity.

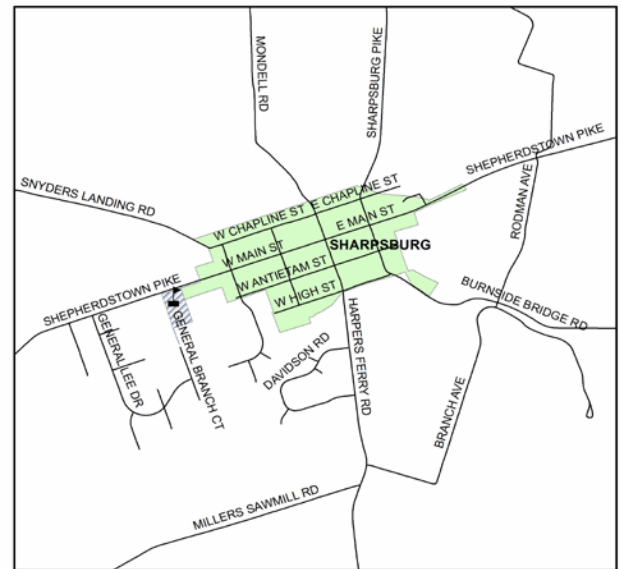
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	1,288,000	1,206,000	82,000	0	0	0	0	0	0
Construction	17,659,000	15,701,000	1,958,000	0	0	0	0	0	0
Equipment/Furniture	884,000	425,000	459,000	0	0	0	0	0	0
Total Cost	19,831,000	17,332,000	2,499,000	0	0	0	0	0	0

Funding Sources:

General Fund	1,800,000	1,800,000	0	0	0	0	0	0	0
Tax Supported Bond	4,967,100	3,536,100	1,431,000	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Schools	1,254,400	869,400	385,000	0	0	0	0	0	0
Excise Tax - Non-Residential	50,000	50,000	0	0	0	0	0	0	0
Capital Reserve - General	151,500	151,500	0	0	0	0	0	0	0
State Grant	11,608,000	10,925,000	683,000	0	0	0	0	0	0
Total Funding	19,831,000	17,332,000	2,499,000	0	0	0	0	0	0

Project Title: Sharpsburg Elementary School- Replacement**Project Number: 1114****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$5,000****Description:**

The project involves construction of 63,818 SF replacement building to support 471 students.

Assumptions & Justifications:

State share is 71% of eligible construction costs

Replacement is needed due to the age of the school and growth in the southern part of the county.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Architect Fees	1,898,000	0	0	905,000	583,000	324,000	86,000	0	0
Construction	22,125,000	0	0	4,200,000	5,173,000	5,292,000	7,460,000	0	0
Equipment/Furniture	1,233,000	0	0	0	0	400,000	833,000	0	0
Total Cost	25,256,000	0	0	5,105,000	5,756,000	6,016,000	8,379,000	0	0

Funding Sources:

Tax Supported Bond	9,279,000	0	0	720,000	2,371,000	1,781,000	4,407,000	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Schools	1,540,000	0	0	385,000	385,000	385,000	385,000	0	0
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
State Grant	14,437,000	0	0	4,000,000	3,000,000	3,850,000	3,587,000	0	0
Total Funding	25,256,000	0	0	5,105,000	5,756,000	6,016,000	8,379,000	0	0

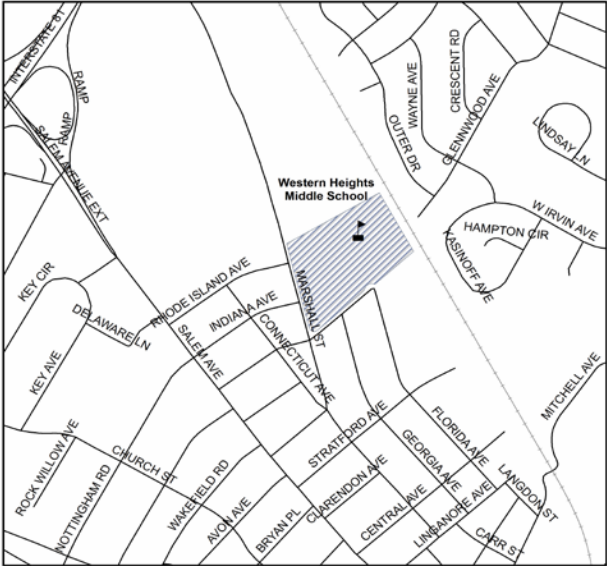
Project Title: Western Heights Middle School Modernization

Project Number: 1227

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$5,000



Description:

The project includes renovation of 113,970 square feet built in 1983 and an addition of 21,345 square feet for an expanded community gym, music, science, art and support programs.

Assumptions & Justifications:

Total cost allocation:
State 41%
County 35%
BOE 24%
BOE contribution applied toward additional square footage cost not covered by State funding.
The school is aging and in need of modernization.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Architect Fees	2,855,000	0	0	0	0	0	0	1,008,000	1,847,000
Construction	33,480,000	0	0	0	0	0	0	8,008,000	25,472,000
Equipment/Furniture	1,873,000	0	0	0	0	0	0	0	1,873,000
Total Cost	38,208,000	0	0	0	0	0	0	9,016,000	29,192,000

Funding Sources:

General Fund	8,000	0	0	0	0	0	0	0	8,000
Tax Supported Bond	11,874,000	0	0	0	0	0	0	1,731,000	10,143,000
Excise Tax - Schools	1,540,000	0	0	0	0	0	0	385,000	1,155,000
State Grant	15,586,000	0	0	0	0	0	0	3,900,000	11,686,000
Contributions	9,200,000	0	0	0	0	0	0	3,000,000	6,200,000
Total Funding	38,208,000	0	0	0	0	0	0	9,016,000	29,192,000

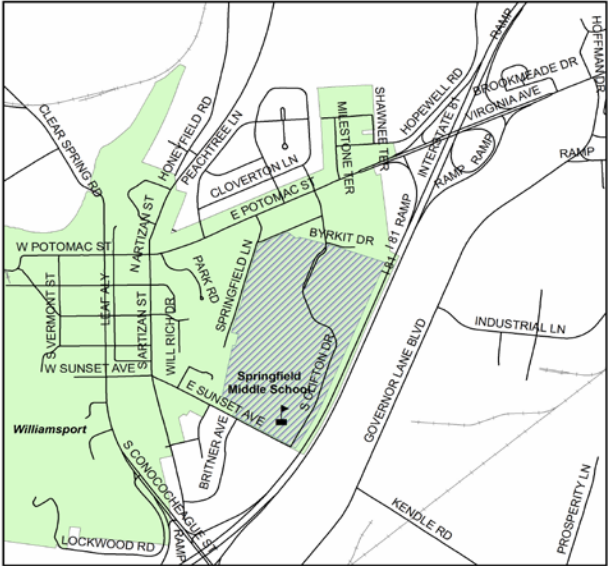
Project Title: Springfield Middle School Modernization

Project Number: 1296

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project consists of a 133,955 sq ft renovation needed for aging middle school designed for 860 students.

Assumptions & Justifications:

Total Cost allocation:
State 38%
County 35%
BOE 27%
BOE contribution applied toward additional square footage cost not covered by State funding.

There have been no significant improvements to this school since being built in the 1970's.
The project should reduce operating costs through efficient HVAC and lighting systems.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Architect Fees	1,200,000	0	0	0	0	0	0	0	1,200,000
Construction	7,200,000	0	0	0	0	0	0	0	7,200,000
Equipment/Furniture	0	0	0	0	0	0	0	0	0
Total Cost	8,400,000	0	0	0	0	0	0	0	8,400,000

Funding Sources:

General Fund	370,000	0	0	0	0	0	0	0	370,000
Tax Supported Bond	1,145,000	0	0	0	0	0	0	0	1,145,000
Excise Tax - Schools	385,000	0	0	0	0	0	0	0	385,000
State Grant	3,500,000	0	0	0	0	0	0	0	3,500,000
Contributions	3,000,000	0	0	0	0	0	0	0	3,000,000
Total Funding	8,400,000	0	0	0	0	0	0	0	8,400,000

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*Hagerstown Community College
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026*

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs											
<u>Hagerstown Community College</u>											
110	Learning Resource Center Renovation	3,226,000	95,000	1,095,000	1,085,000	951,000	0	0	0	0	
111	Teacher Education Center	4,713,000	0	0	0	0	107,000	2,378,000	2,228,000	0	
112	ARCC Air Conditioning	2,727,000	0	0	0	0	0	0	0	2,727,000	
113	Campus Road & Parking Lot Overlays	2,693,000	0	0	0	0	0	0	0	2,693,000	
114	Student Center Parking Lot	696,000	0	0	0	0	696,000	0	0	0	
115	SMART/Alternative Energy House/Training Center	1,746,000	0	150,000	532,000	532,000	532,000	0	0	0	
116	ATC Renovation & Addition	4,000,000	0	0	0	0	0	0	0	4,000,000	
Hagerstown Community College Total		19,801,000	95,000	1,245,000	1,617,000	1,483,000	1,335,000	2,378,000	2,228,000	9,420,000	
Funding Sources											
General Fund		534,000	0	0	404,000	0	0	0	0	130,000	
Tax Supported Bond		4,960,000	0	0	0	308,000	355,000	844,000	618,000	2,835,000	
Federal Grant		646,000	0	646,000	0	0	0	0	0	0	
State Grant		12,517,000	0	599,000	1,024,000	986,000	861,000	1,534,000	1,437,000	6,076,000	
Contributions		1,144,000	95,000	0	189,000	189,000	119,000	0	173,000	379,000	
		19,801,000	95,000	1,245,000	1,617,000	1,483,000	1,335,000	2,378,000	2,228,000	9,420,000	

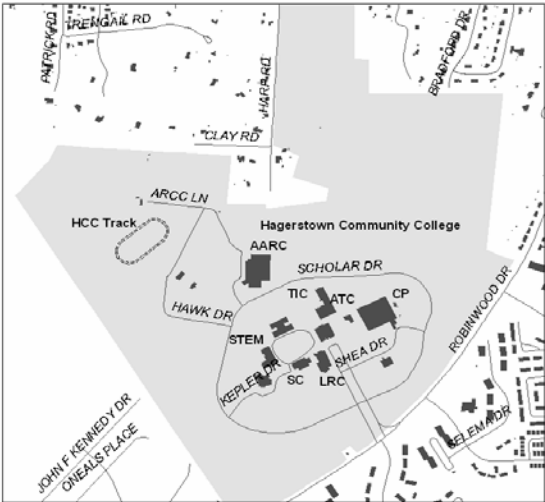
Project Title: Learning Resource Center Renovation

Project Number: 96

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

Much of the library book stack space currently located in this building will be re-purposed to accommodate Middle College students (fulltime dual enrolled high school students who will receive a high school diploma as well as AA degree at the completion of 2 years) so that they have a home base and so that they can be more closely monitored due to their age. As the Middle College continues to expand, this dedicated space is needed to support these younger fulltime day students.

Assumptions & Justifications:

State share approximately 64.5%
ARC Grant \$496,000

The College needs to be able to support the increasing number of younger students attending the Middle College (dual enrolled with State student support going to WCPS).

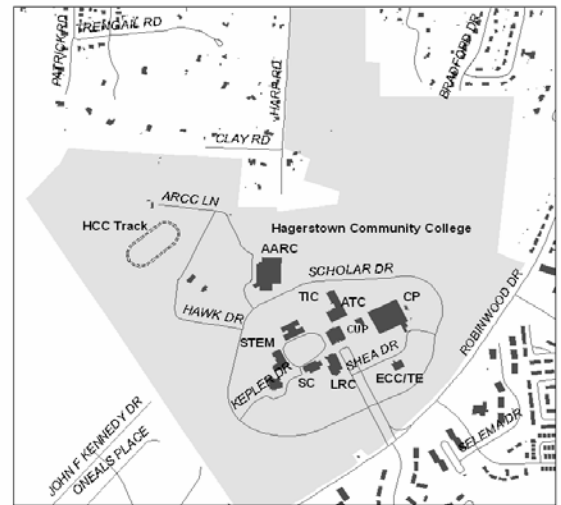
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Architect Fees	95,000	95,000	0	0	0	0	0	0	0
Construction	2,180,000	0	1,095,000	1,085,000	0	0	0	0	0
Equipment/Furniture	951,000	0	0	0	951,000	0	0	0	0
Total Cost	3,226,000	95,000	1,095,000	1,085,000	951,000	0	0	0	0

Funding Sources:

General Fund	404,000	0	0	404,000	0	0	0	0	0
Tax Supported Bond	308,000	0	0	0	308,000	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Federal Grant	496,000	0	496,000	0	0	0	0	0	0
State Grant	1,923,000	0	599,000	681,000	643,000	0	0	0	0
Contributions	95,000	95,000	0	0	0	0	0	0	0
State Funding	0	0	0	0	0	0	0	0	0
Total Funding	3,226,000	95,000	1,095,000	1,085,000	951,000	0	0	0	0

Project Title: Teacher Education Center**Project Number:** 1219**Account Number:****Projected Annual FTE's:** 1**Projected Operating Costs:** \$25,000**Description:**

The scope of the renovation project of the Robinwood Center is to completely renovate the existing structure to accommodate a Teachers Education Center and HCC's Daycare Center. This project will have to meet the state's accreditation standards for daycare. The aging building will need a new roof, asbestos and lead abatement, ADA improvements and new mechanical systems.

Assumptions & Justifications:

State share approximately 64.5%

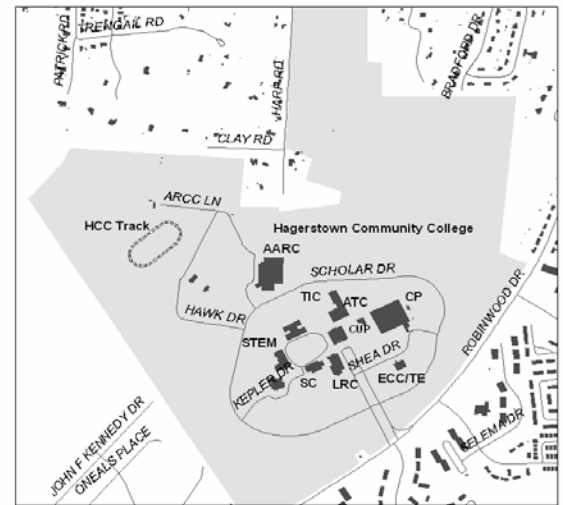
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Architect Fees	243,000	0	0	0	0	107,000	136,000	0	0
Construction	3,900,000	0	0	0	0	0	2,242,000	1,658,000	0
Equipment/Furniture	570,000	0	0	0	0	0	0	570,000	0
Total Cost	4,713,000	0	0	0	0	107,000	2,378,000	2,228,000	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	1,500,000	0	0	0	0	38,000	844,000	618,000	0
State Grant	3,040,000	0	0	0	0	69,000	1,534,000	1,437,000	0
Contributions	173,000	0	0	0	0	0	0	173,000	0
Total Funding	4,713,000	0	0	0	0	107,000	2,378,000	2,228,000	0

Project Title: ARCC Air Conditioning**Project Number: 1267****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$15,000****Description:**

The ARCC (Athletic Recreation & Community Center) is the largest indoor gathering spot in Washington County. The ARCC arena space (65,367 NSF) is currently not air conditioned and thus during hot summer months the space is virtually unusable. Air conditioning of the arena space will allow for use of the space in summer for both athletic training and events, as well as other College and community events (including WCPS graduation ceremonies and summer kids programs).

Assumptions & Justifications:

State share approximately 64.5%.

Many events could be held during summer months in the arena if it was air-conditioned (additional operating costs would be covered by additional facility rental revenue).

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	166,000	0	0	0	0	0	0	0	166,000
Construction	2,561,000	0	0	0	0	0	0	0	2,561,000
Total Cost	2,727,000	0	0	0	0	0	0	0	2,727,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	968,000	0	0	0	0	0	0	0	968,000
State Grant	1,759,000	0	0	0	0	0	0	0	1,759,000
Total Funding	2,727,000	0	0	0	0	0	0	0	2,727,000

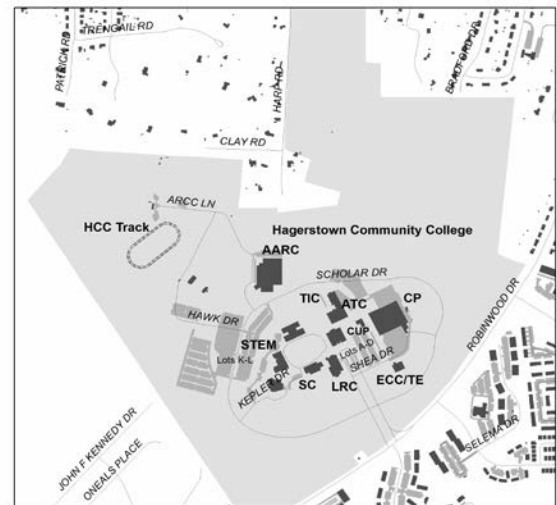
Project Title: Campus Road & Parking Lot Overlays

Project Number: 1268

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The roads and parking lots around campus are showing signs of deterioration due to high traffic volumes, construction vehicles, and snow removal. The project will consist of resurfacing the roads around campus and the parking lots. The roads included in this project are Loop Road, Hawk Drive, Quad, and Kepler Drive. Some of these roads will require a fill rebuild. Parking lots in this project that need to be resurfaced are lots A, B, C, D, L, and K.

Assumptions & Justifications:

State share approximately 64.5%.

No deferred maintenance funds are provided to HCC by the State or County, so projects must be submitted for the necessary repairs and maintenance.

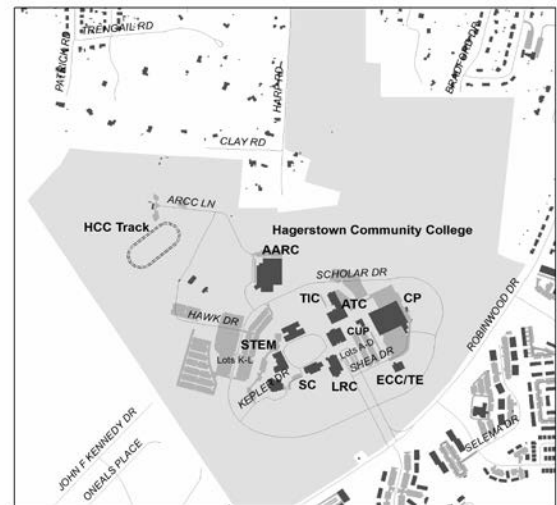
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	293,000	0	0	0	0	0	0	0	293,000
Construction	2,400,000	0	0	0	0	0	0	0	2,400,000
Total Cost	2,693,000	0	0	0	0	0	0	0	2,693,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	956,000	0	0	0	0	0	0	0	956,000
State Grant	1,737,000	0	0	0	0	0	0	0	1,737,000
Total Funding	2,693,000	0	0	0	0	0	0	0	2,693,000

Project Title: Student Center Parking Lot**Project Number: 1292****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$2,000****Description:**

The project will construct a new parking lot to support expanded use of the new student center.

Assumptions & Justifications:

State share approximately 64.5%

When the student center was built, funds were not available to support the construction of a parking lot, so it is going to be a separate project. As the student center's use expands, having a parking lot dedicated to the building will become more important. In addition to housing a campus store and two food service locations, the student center has conference rooms and a large dining area which will be used for student events as well as other events with HCC guests and community members. Currently there is no parking lot close to the building, which requires guests to walk up a steep hill. A new parking lot at the base of the center will eliminate this concern and provide easier access to the building for campus visitors, including a significant number of handicapped spaces.

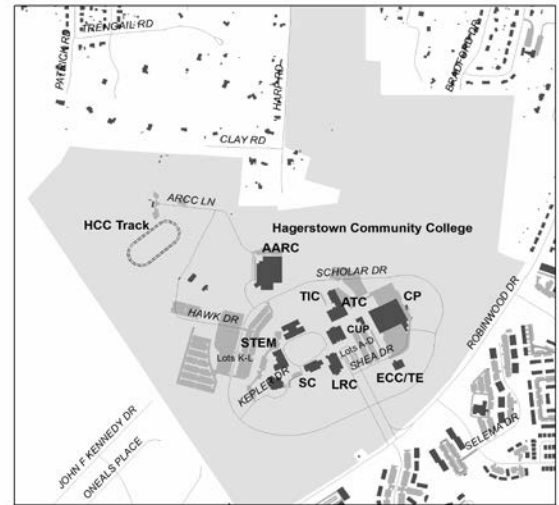
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	36,000	0	0	0	0	36,000	0	0	0
Construction	660,000	0	0	0	0	660,000	0	0	0
Total Cost	696,000	0	0	0	0	696,000	0	0	0

Funding Sources:

Tax Supported Bond	247,000	0	0	0	0	247,000	0	0	0
State Grant	449,000	0	0	0	0	449,000	0	0	0
Total Funding	696,000	0	0	0	0	696,000	0	0	0

Project Title: SMART/Alternative Energy House/Training Center**Project Number:** 1295**Account Number:****Projected Annual FTE's:** 1**Projected Operating Costs:** \$62,000**Description:**

The "Energy House" has been an evolving concept. The expectation is that it will support advanced training for community members in the construction trades, as well as offer enhanced training in alternative energy. This "house" is to be a model & laboratory for what construction of the future will look like. The setting will allow students to see how all the systems in a building work together and give them a place to practice the trades related to construction and technology that will integrate the full building.

Assumptions & Justifications:

State share approximately 64.5%

Previously awarded ARC grant to support \$150,000 for equipment

The project will support the education needs of the community with workforce training & development, as well as, provide higher level skills training for the constructions trades.

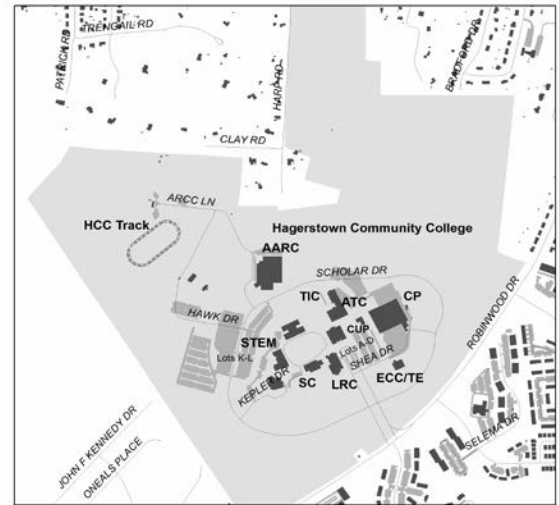
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	28,000	0	0	28,000	0	0	0	0	0
Construction	1,568,000	0	0	504,000	532,000	532,000	0	0	0
Equipment/Furniture	150,000	0	150,000	0	0	0	0	0	0
Total Cost	1,746,000	0	150,000	532,000	532,000	532,000	0	0	0

Funding Sources:

Tax Supported Bond	70,000	0	0	0	0	70,000	0	0	0
Federal Grant	150,000	0	150,000	0	0	0	0	0	0
State Grant	1,029,000	0	0	343,000	343,000	343,000	0	0	0
Contributions	497,000	0	0	189,000	189,000	119,000	0	0	0
Total Funding	1,746,000	0	150,000	532,000	532,000	532,000	0	0	0

Project Title: ATC Renovation & Addition**Project Number: 1309****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project involves renovation of office and classroom/lab space for the Advanced Manufacturing Program. The layout of this space will be designed based on curriculum requirements and program needs. Included in the renovated space will be an electronics lab and robotics lab to provide space for students to become familiar with equipment from basic electronics circuits to custom-made, advanced manufacturing trainers. The addition to this building relates to the need for a centralized receiving space for the campus. The addition would house and consolidate all operational support functions such as Facilities Management, Maintenance, Custodial Services, Grounds, Mailroom/Central Receiving and Business/Procurement Services.

Assumptions & Justifications:

State share approximately 64.5%

The program will address the stated needs of local manufacturers such as Volvo Powertrain by preparing potential employees to configure, operate, and troubleshoot advanced manufacturing equipment.

The addition will free up instructional space in the Career Programs Building. The former campus operations project building would be replaced by this addition to an existing building, allowing us to cut down on the overall cost.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	241,000	0	0	0	0	0	0	0	241,000
Construction	3,559,000	0	0	0	0	0	0	0	3,559,000
Equipment/Furniture	200,000	0	0	0	0	0	0	0	200,000
Total Cost	4,000,000	0	0	0	0	0	0	0	4,000,000

Funding Sources:

General Fund	130,000	0	0	0	0	0	0	0	130,000
Tax Supported Bond	911,000	0	0	0	0	0	0	0	911,000
State Grant	2,580,000	0	0	0	0	0	0	0	2,580,000
Contributions	379,000	0	0	0	0	0	0	0	379,000
Total Funding	4,000,000	0	0	0	0	0	0	0	4,000,000

Public Libraries
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs											
<u>Public Libraries</u>											
118	Systemic Projects - Library	116,300	16,300	10,000	10,000	10,000	10,000	10,000	10,000	40,000	
119	Hancock Public Library Replacement	3,001,000	267,000	10,000	10,000	10,000	10,000	78,000	2,616,000	0	
Public Libraries Total		3,117,300	283,300	20,000	20,000	20,000	20,000	88,000	2,626,000	40,000	
Funding Sources											
	General Fund	128,100	68,100	10,000	10,000	10,000	10,000	10,000	10,000	0	
	Tax Supported Bond	849,000	0	0	0	0	0	68,000	781,000	0	
	Excise Tax - Library	140,200	40,200	10,000	10,000	10,000	10,000	10,000	10,000	40,000	
	State Grant	1,460,000	175,000	0	0	0	0	0	1,285,000	0	
	Contributions	540,000	0	0	0	0	0	0	540,000	0	
		3,117,300	283,300	20,000	20,000	20,000	20,000	88,000	2,626,000	40,000	

Project Title: Systemic Projects - Library

Project Number: 1090

Account Number: BLD075

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

Future systemic projects could include chillers, boilers, rooftop HVAC units, cooling towers, roof replacements.

Assumptions & Justifications:

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	1,000	0	0	0	0	0	0	0	1,000
Construction	115,300	16,300	10,000	10,000	10,000	10,000	10,000	10,000	39,000
Total Cost	116,300	16,300	10,000	10,000	10,000	10,000	10,000	10,000	40,000

Funding Sources:

General Fund	60,000	0	10,000	10,000	10,000	10,000	10,000	10,000	0
Excise Tax - Library	56,300	16,300	0	0	0	0	0	0	40,000
Total Funding	116,300	16,300	10,000	10,000	10,000	10,000	10,000	10,000	40,000

Project Title: Hancock Public Library Replacement**Project Number: 1120****Account Number: BLD077****Projected Annual FTE's: 1.5****Projected Operating Costs: \$56,000****Description:**

This project includes the construction of a new public library in the town of Hancock. The project will include enhancements to the proposed site including parking and a stormwater management facility.

Assumptions & Justifications:

Library will be built with County funding not to exceed \$1 million. This represents the amount due to the Board of Trustees of the Washington County Library. The Library is forward funding the project costs with County reimbursement occurring in 2022. The estimated population served by the proposed facility is 4,358.

The existing structure is structurally and functionally deficient. The existing building experiences thermal and moisture protection problems. The building has no fire suppression system and has areas that are not in compliance with ADA requirements.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	385,000	267,000	10,000	10,000	10,000	10,000	78,000	0	0
Construction	2,616,000	0	0	0	0	0	0	2,616,000	0
Inspection	0	0	0	0	0	0	0	0	0
Equipment/Furniture	0	0	0	0	0	0	0	0	0
Utilities	0	0	0	0	0	0	0	0	0
Total Cost	3,001,000	267,000	10,000	10,000	10,000	10,000	78,000	2,616,000	0

Funding Sources:

General Fund	68,100	68,100	0	0	0	0	0	0	0
Tax Supported Bond	849,000	0	0	0	0	0	68,000	781,000	0
Excise Tax - Library	83,900	23,900	10,000	10,000	10,000	10,000	10,000	10,000	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
State Grant	1,460,000	175,000	0	0	0	0	0	1,285,000	0
Contributions	540,000	0	0	0	0	0	0	540,000	0
Total Funding	3,001,000	267,000	10,000	10,000	10,000	10,000	78,000	2,616,000	0

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General Government

*General Government
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026*

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs											
General Government											
122	Contingency - General Fund	1,024,305	75,305	49,000	100,000	100,000	100,000	100,000	100,000	400,000	
123	Bond Issuance Costs	1,097,000	97,000	100,000	100,000	100,000	100,000	100,000	100,000	400,000	
124	Financial System Management & Upgrades	1,494,796	356,796	490,000	197,000	212,000	32,000	33,000	34,000	140,000	
125	General - Equipment and Vehicle Replacement Program	4,454,589	342,589	246,000	250,000	424,000	432,000	440,000	448,000	1,872,000	
126	Systemic Improvements-Buildings	2,439,378	440,378	200,000	200,000	200,000	200,000	200,000	200,000	799,000	
127	County Administration Building Exterior Enhancements	721,000	0	357,000	364,000	0	0	0	0	0	
128	Register of Wills and Master Court Renovations	1,107,000	0	587,000	520,000	0	0	0	0	0	
129	Information Systems Replacement Program	2,187,785	177,785	153,000	156,000	170,000	184,000	198,000	213,000	936,000	
130	Broadband Wireless Network Infrastructure	169,856	97,856	36,000	36,000	0	0	0	0	0	
131	Tree Forestation	145,548	29,548	20,000	0	21,000	0	22,000	0	53,000	
General Government Total		14,841,257	1,617,257	2,238,000	1,923,000	1,227,000	1,048,000	1,093,000	1,095,000	4,600,000	
Funding Sources											
	General Fund	7,845,557	186,557	898,000	67,000	1,227,000	814,000	653,000	647,000	3,353,000	
	Tax Supported Bond	4,294,000	97,000	944,000	884,000	0	234,000	440,000	448,000	1,247,000	
	Capital Reserve - General	2,701,700	1,333,700	396,000	972,000	0	0	0	0	0	
		14,841,257	1,617,257	2,238,000	1,923,000	1,227,000	1,048,000	1,093,000	1,095,000	4,600,000	

Project Title: Contingency - General Fund

Project Number: 1

Account Number: ADM002

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project serves as a reserve to provide for emergency or unanticipated expenditures for all categories.

Assumptions & Justifications:

Due to the inherent uncertainty in estimating capital project costs, it is the written policy of the County to maintain project contingency. It is also good management practice to increase the Contingency due to the increase of Capital Program requests and rising number of individual projects, as one project overrun or unanticipated project could use all available funds. In the event that the capital contingency accounts have excess funds, the annual appropriation for that purpose may be modified to reflect the source of funds as determined through the budget process.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Contingency	1,024,305	75,305	49,000	100,000	100,000	100,000	100,000	100,000	400,000
Other	0	0	0	0	0	0	0	0	0
Total Cost	1,024,305	75,305	49,000	100,000	100,000	100,000	100,000	100,000	400,000

Funding Sources:

General Fund	924,305	75,305	49,000	0	100,000	100,000	100,000	100,000	400,000
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	100,000	0	0	100,000	0	0	0	0	0
Total Funding	1,024,305	75,305	49,000	100,000	100,000	100,000	100,000	100,000	400,000

Project Title: Bond Issuance Costs

Project Number: 2

Account Number: ADM001

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project is for costs associated with the sale of bonds. The costs include fees for printing, financial advisor, bond counsel, discounts, and rating agency fees.

Assumptions & Justifications:

Bond issuance is required to finance the capital improvement plan.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Bond Issuance Expense	1,097,000	97,000	100,000	100,000	100,000	100,000	100,000	100,000	400,000
Other	0	0	0	0	0	0	0	0	0
Total Cost	1,097,000	97,000	100,000	100,000	100,000	100,000	100,000	100,000	400,000

Funding Sources:

General Fund	900,000	0	100,000	0	100,000	100,000	100,000	100,000	400,000
Tax Supported Bond	97,000	97,000	0	0	0	0	0	0	0
Capital Reserve - General	100,000	0	0	100,000	0	0	0	0	0
Total Funding	1,097,000	97,000	100,000	100,000	100,000	100,000	100,000	100,000	400,000

Project Title: Financial System Management & Upgrades

Project Number: 969

Account Number: COM019

Projected Annual FTE's: 0

Projected Operating Costs: \$20,000

Description:

Integrated financial system (general ledger, human resources, payroll, financial, purchasing, utility, and budget) is used for county-wide operations to process all financials, human resource, payroll, and purchasing functions for the County.

Assumptions & Justifications:

2017 - Movement of People Soft financial system to cloud base, including position management and time management. The system would be self-updating and self-healing.

Provides for more efficient use of time and money as systems, employees, and financial management expand to meet demands in the future.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Hardware/Software	1,494,796	356,796	490,000	197,000	212,000	32,000	33,000	34,000	140,000
Total Cost	1,494,796	356,796	490,000	197,000	212,000	32,000	33,000	34,000	140,000

Funding Sources:

General Fund	743,963	21,963	240,000	31,000	212,000	32,000	33,000	34,000	140,000
Capital Reserve - General	750,833	334,833	250,000	166,000	0	0	0	0	0
Total Funding	1,494,796	356,796	490,000	197,000	212,000	32,000	33,000	34,000	140,000

Project Title: General - Equipment and Vehicle Replacement Program

Project Number: 1174

Account Number: VEH008

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will serve to replace heavy equipment and vehicles that are beyond their useful life, which are typically the most costly to maintain. In line with the objectives of a well-managed organization, the County wants to establish an equipment and fleet replacement program that will, in time, set the vehicle and equipment replacement cycle in line with best practices, minimizing operating and maintenance costs.

Assumptions & Justifications:

Parks & Facilities - 11900 - John Deere Bunker Rake - \$22,000; 1 Ton Passenger Van - \$32,000; 1 Ton Pickup w/ Plow - \$70,000
Planning & Zoning - 10800 - 4WD Compact Utility Vehicle - \$19,344
Construction - 11630 - 2 Mid-Size/Compact SUV - \$24,500 ea.; 2 Mid-Size/Compact SUV - \$24,100 ea.; 2 Dell Mobile Computers - \$2,110 ea.

The goal of the replacement program is to strike a balance for minimizing replacement costs versus maintenance and fuel costs. The program allows for the purchase of replacement vehicles and equipment used to provide County-wide services within Washington County. The County's equipment and vehicle inventory consists of approximately 2,300 items.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	12,500	12,500	0	0	0	0	0	0	0
Vehicles	4,442,089	330,089	246,000	250,000	424,000	432,000	440,000	448,000	1,872,000
Total Cost	4,454,589	342,589	246,000	250,000	424,000	432,000	440,000	448,000	1,872,000

Funding Sources:

General Fund	1,412,000	0	165,000	0	424,000	198,000	0	0	625,000
Tax Supported Bond	2,369,000	0	0	0	0	234,000	440,000	448,000	1,247,000
Capital Reserve - General	673,589	342,589	81,000	250,000	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	4,454,589	342,589	246,000	250,000	424,000	432,000	440,000	448,000	1,872,000

Project Title: Systemic Improvements-Buildings

Project Number: 1148

Account Number: BLD078

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project includes a variety of upgrades and/or replacements including, but not limited to, air conditioning, weatherproofing, roofing and other building improvements.

Assumptions & Justifications:

Pending general fund monies availability.

Renovations are required to maintain the functionality of the buildings.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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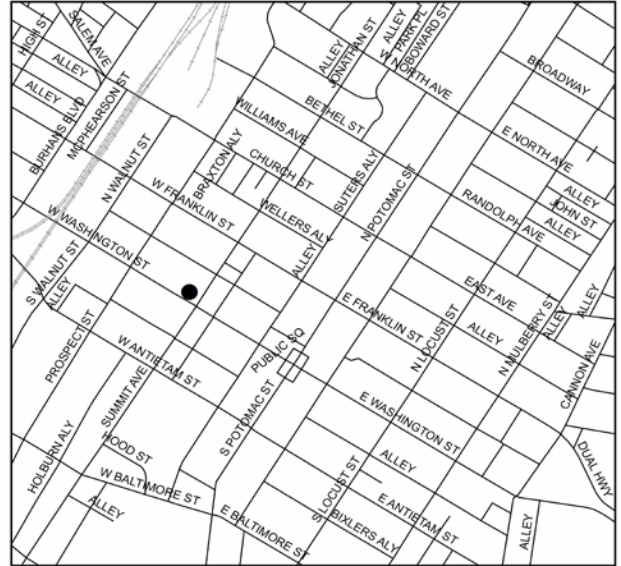
Project Costs:

Construction	2,439,378	440,378	200,000	200,000	200,000	200,000	200,000	200,000	799,000
Total Cost	2,439,378	440,378	200,000	200,000	200,000	200,000	200,000	200,000	799,000

Funding Sources:

General Fund	1,734,000	0	135,000	0	200,000	200,000	200,000	200,000	799,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	705,378	440,378	65,000	200,000	0	0	0	0	0
Total Funding	2,439,378	440,378	200,000	200,000	200,000	200,000	200,000	200,000	799,000

Projected Operating Costs: \$0



Exterior enhancements are required to maintain the functionality of the building.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Engineering/Design	51,000	0	51,000	0	0	0	0	0	0
Construction	670,000	0	306,000	364,000	0	0	0	0	0
Total Cost	721,000	0	357,000	364,000	0	0	0	0	0

Tax Supported Bond	721,000	0	357,000	364,000	0	0	0	0	0
Total Funding	721,000	0	357,000	364,000	0	0	0	0	0

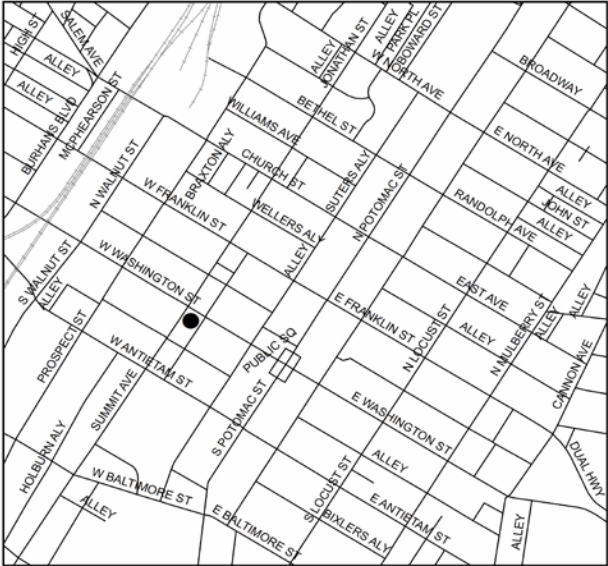
Project Title: Register of Wills and Master Court Renovations

Project Number: 1304

Account Number: BLD092

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project involves the relocation of the Register of Wills from the Circuit Courthouse to the 2nd Floor of 33 West Washington Street and allows for a new Master Court in the location left unoccupied in the Circuit Courthouse. Work includes renovations to 4,400 SF of office space at 33 West Washington Street including construction of an orphans courtroom and relocation of high density filing as well as renovations to 2,900 SF of office space at the Circuit Courthouse left unoccupied.

Assumptions & Justifications:

The renovations at 33 West Washington Street provide additional space for the Orphans Court and the area left unoccupied at the Circuit Court will provide space for a second Master Court.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	77,000	0	77,000	0	0	0	0	0	0
Construction	1,030,000	0	510,000	520,000	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Total Cost	1,107,000	0	587,000	520,000	0	0	0	0	0

Funding Sources:

Tax Supported Bond	1,107,000	0	587,000	520,000	0	0	0	0	0
Total Funding	1,107,000	0	587,000	520,000	0	0	0	0	0

Project Title: Information Systems Replacement Program

Project Number: 3

Account Number: COM011

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The Information System Replacement Program focuses on the investment in infrastructure hardware and software that provide the foundation on which the business and enterprise systems reside. The Information Technology area currently maintains more than 40 business applications and additionally includes the County's telecommunications (telephone) system.

Assumptions & Justifications:

The systems and software serve the departments and typically reach the end of their useful life-expectancy between 3 and 8 years, at which point the systems become increasingly costly to maintain and difficult to exchange information with other systems. Priorities for determining which applications to replace first are driven by age, criticality of the system to operations, and availability of ongoing support from the applications vendor.

The goal of the Information Systems Replacement Program is to keep the County's existing business systems refreshed or replaced on a reasonably expected system life-cycle so the systems remain useful, operable, and responsive to business needs.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Hardware/Software	2,187,785	177,785	153,000	156,000	170,000	184,000	198,000	213,000	936,000
Other	0	0	0	0	0	0	0	0	0
Total Cost	2,187,785	177,785	153,000	156,000	170,000	184,000	198,000	213,000	936,000

Funding Sources:

General Fund	1,860,885	6,885	153,000	0	170,000	184,000	198,000	213,000	936,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	326,900	170,900	0	156,000	0	0	0	0	0
Utility Fund	0	0	0	0	0	0	0	0	0
Total Funding	2,187,785	177,785	153,000	156,000	170,000	184,000	198,000	213,000	936,000

Project Title: **Broadband Wireless Network Infrastructure**

Project Number: **984**

Account Number: **COM021**

Projected Annual FTE's: **0**

Projected Operating Costs: **\$0**

Description:

The Washington County Broadband Wireless Network Infrastructure System provides fixed broadband (high speed) primary and redundant connectivity for County facilities (i.e. WTP; WwTP, and Pump Station) to network services and a resilient and redundant pathway for the County's fiber network infrastructure. Additionally, this system is available to County divisions and departments and the Washington County Public Network (WCPN) partners that include agencies such as the Washington County Public Schools, Washington County Free Library, 911 Emergency Services, Sheriff's Department, City of Hagerstown Police Department and other City departments and agencies.

Assumptions & Justifications:

Wireless communication technology typically reach the end of their useful life-expectancy between 5 and 8 years, at which point the systems become increasingly costly to maintain and difficult to find acceptable replacement technology that meet or exceed bandwidth needs.

The goal of the Washington County Broadband Wireless Network Infrastructure System is to provide for the efficient and cost effective communication between the sixty (60) plus County Environmental Management facilities and to provide for a resilient and redundant pathway for the County's fiber network infrastructure.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	71,520	71,520	0	0	0	0	0	0	0
Hardware/Software	98,336	26,336	36,000	36,000	0	0	0	0	0
Total Cost	169,856	97,856	36,000	36,000	0	0	0	0	0

Funding Sources:

General Fund	124,856	52,856	36,000	36,000	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	45,000	45,000	0	0	0	0	0	0	0
Total Funding	169,856	97,856	36,000	36,000	0	0	0	0	0

Project Title: Tree Forestation

Project Number: 1126

Account Number: LDI043

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will plant trees to construct forested areas to meet the Total Maximum Daily Load (TMDL) / Watershed Implementation Plan (WIP) requirements.

Assumptions & Justifications:

The project will be coordinated with the Soil Conservation District. Land is to be provided at no cost.

This project is requested to meet the regulatory requirements imposed by the EPA and MDE relating to the TMDL and NPDES permit.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	145,548	29,548	20,000	0	21,000	0	22,000	0	53,000
Total Cost	145,548	29,548	20,000	0	21,000	0	22,000	0	53,000

Funding Sources:

General Fund	145,548	29,548	20,000	0	21,000	0	22,000	0	53,000
Total Funding	145,548	29,548	20,000	0	21,000	0	22,000	0	53,000

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Parks & Recreation

Parks & Recreation
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Project Costs										
<u>Parks & Recreation</u>										
134	BR Capital Equipment Replacement Program	764,934	260,934	0	52,000	53,000	54,000	55,000	56,000	234,000
135	North Central County Park	95,000	0	0	0	0	0	0	0	95,000
136	Regional Park Equip. Replacement	41,000	0	41,000	0	0	0	0	0	0
137	Chestnut Grove Park, Overlay Parking Lot	42,000	0	0	0	42,000	0	0	0	0
138	Tennis Courts, Resurfacing	159,300	76,300	41,000	21,000	21,000	0	0	0	0
139	Doubs Woods, Arts Pavilion Roof Replacement	27,000	0	27,000	0	0	0	0	0	0
140	Pavilion Apron Replacement, Various Parks	20,000	0	20,000	0	0	0	0	0	0
141	Ag Center Drainage, Asphalt Improvements	20,000	0	20,000	0	0	0	0	0	0
142	Marty Snook Park Pool Return Gate Replacement	31,000	0	31,000	0	0	0	0	0	0
143	Ag Center Land Acquisition Development	84,000	0	0	42,000	42,000	0	0	0	0
Parks & Recreation Total		1,284,234	337,234	180,000	115,000	158,000	54,000	55,000	56,000	329,000
Funding Sources										
General Fund		667,414	29,414	20,000	59,000	65,000	54,000	55,000	56,000	329,000
Capital Reserve - General		51,000	51,000	0	0	0	0	0	0	0
State Grant		565,820	256,820	160,000	56,000	93,000	0	0	0	0
		1,284,234	337,234	180,000	115,000	158,000	54,000	55,000	56,000	329,000

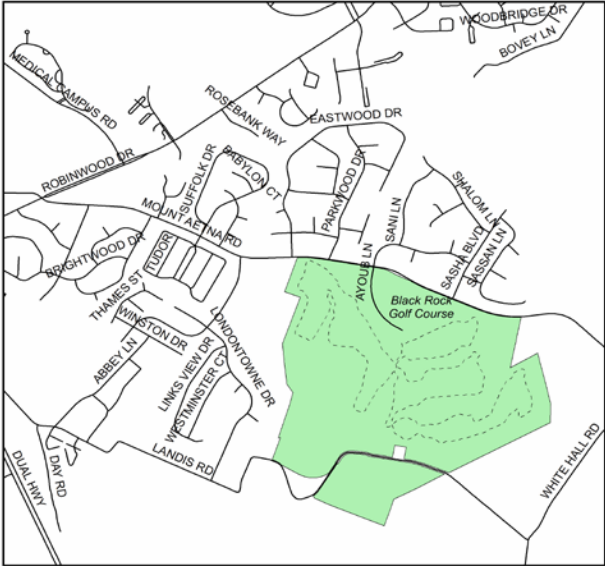
Project Title: BR Capital Equipment Replacement Program

Project Number: 935

Account Number: EQP053

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The program allows for the purchase of replacement equipment used for services directly related to Black Rock Golf Course.

Assumptions & Justifications:

The goal of the replacement program is to balance replacement costs versus maintenance costs. In line with the objectives of a well-managed organization, Black Rock Golf Course strives to establish an equipment replacement program that will set the equipment replacement cycle in line with best practices, minimizing maintenance costs.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	160,934	160,934	0	0	0	0	0	0	0
Equipment/Furniture	504,000	0	0	52,000	53,000	54,000	55,000	56,000	234,000
Vehicles	100,000	100,000	0	0	0	0	0	0	0
Total Cost	764,934	260,934	0	52,000	53,000	54,000	55,000	56,000	234,000

Funding Sources:

General Fund	523,134	19,134	0	52,000	53,000	54,000	55,000	56,000	234,000
Excise Tax - Other	0	0	0	0	0	0	0	0	0
Capital Reserve - General	51,000	51,000	0	0	0	0	0	0	0
State Grant	190,800	190,800	0	0	0	0	0	0	0
Total Funding	764,934	260,934	0	52,000	53,000	54,000	55,000	56,000	234,000

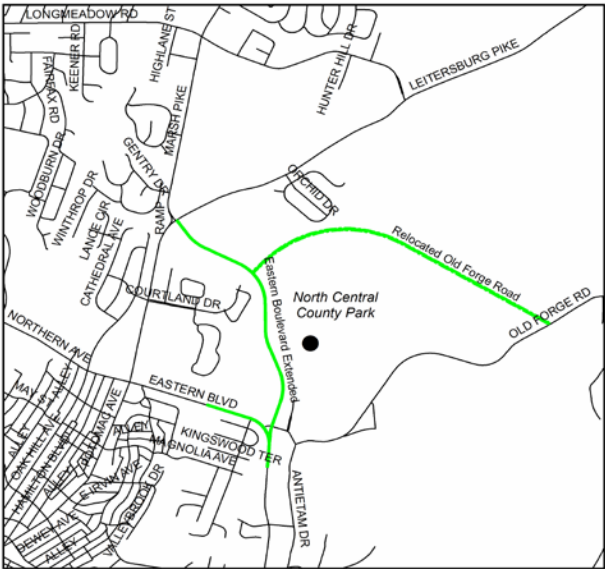
Project Title: North Central County Park

Project Number: 1123

Account Number:

Projected Annual FTE's: 2

Projected Operating Costs: \$81,000



Description:

This project involves a multi-phased development of a regional park along the north side of Eastern Boulevard Extended. Phase 1 work will include construction of an entrance road, parking lot, grading for soccer/ball fields, and an 8' wide paved pedestrian/bike path with street/park lighting. Future phases include pavilion buildings, restrooms, playground equipment and other park and recreation amenities.

Assumptions & Justifications:

This project assumes that Eastern Blvd Extended (Project 21) is completed.

This project provides additional recreational opportunities in the north end of the County. The land is currently under lease for a 99 year period.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Construction	95,000	0	0	0	0	0	0	0	95,000
Inspection	0	0	0	0	0	0	0	0	0
Total Cost	95,000	0	0	0	0	0	0	0	95,000

Funding Sources:

General Fund	95,000	0	0	0	0	0	0	0	95,000
Total Funding	95,000	0	0	0	0	0	0	0	95,000

Project Title: Regional Park Equip. Replacement

Project Number: 1149

Account Number: REC037

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will replace the existing Modular Playground Structure near Pavilion #2.

Assumptions & Justifications:

Pending POS Funding

The existing Playground structure is over 20 years old and is showing signs of degradation due to weather and usage.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	41,000	0	41,000	0	0	0	0	0	0
Total Cost	41,000	0	41,000	0	0	0	0	0	0

Funding Sources:

General Fund	5,000	0	5,000	0	0	0	0	0	0
State Grant	36,000	0	36,000	0	0	0	0	0	0
Total Funding	41,000	0	41,000	0	0	0	0	0	0

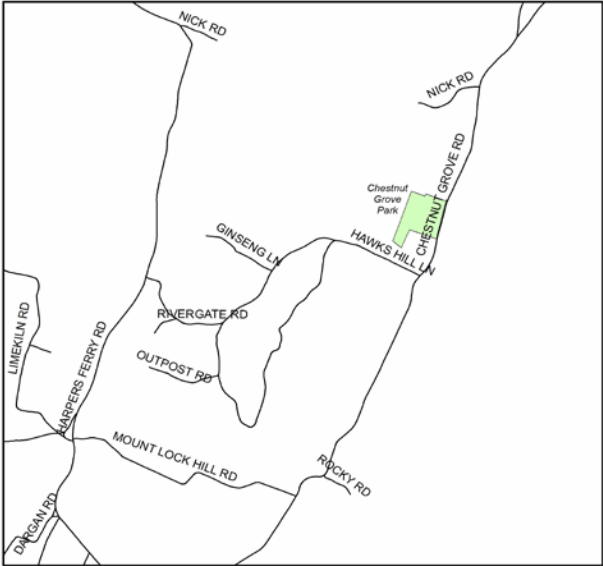
Project Title: Chestnut Grove Park, Overlay Parking Lot

Project Number: 1150

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project consists of prep work, deep patching, and overlay of the existing parking lot and access road.

Assumptions & Justifications:

Pending POS Funding (at this time the State is hesitant to fund overlay projects)

The existing park entrance and parking lot was built around 1987 which makes the asphalt approximately 28 years old and is showing signs of degradation due to ultra violet effects and weather conditions.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	42,000	0	0	0	42,000	0	0	0	0
Total Cost	42,000	0	0	0	42,000	0	0	0	0

Funding Sources:

General Fund	5,000	0	0	0	5,000	0	0	0	0
State Grant	37,000	0	0	0	37,000	0	0	0	0
Total Funding	42,000	0	0	0	42,000	0	0	0	0

Project Title: Tennis Courts, Resurfacing

Project Number: 1177

Account Number: LDI046

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project consists of cleaning, crack sealing, repainting and striping of multiple courts over several years.

Assumptions & Justifications:

Pending POS approvals

The tennis courts were rebuilt approximately 8 to 9 years ago and in need of resurfacing which should be done every 5 to 8 years to keep the elements from getting into the sub base and creating more damage. This will be an ongoing project.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	159,300	76,300	41,000	21,000	21,000	0	0	0	0
Total Cost	159,300	76,300	41,000	21,000	21,000	0	0	0	0

Funding Sources:

General Fund	18,280	10,280	4,000	2,000	2,000	0	0	0	0
State Grant	141,020	66,020	37,000	19,000	19,000	0	0	0	0
Total Funding	159,300	76,300	41,000	21,000	21,000	0	0	0	0

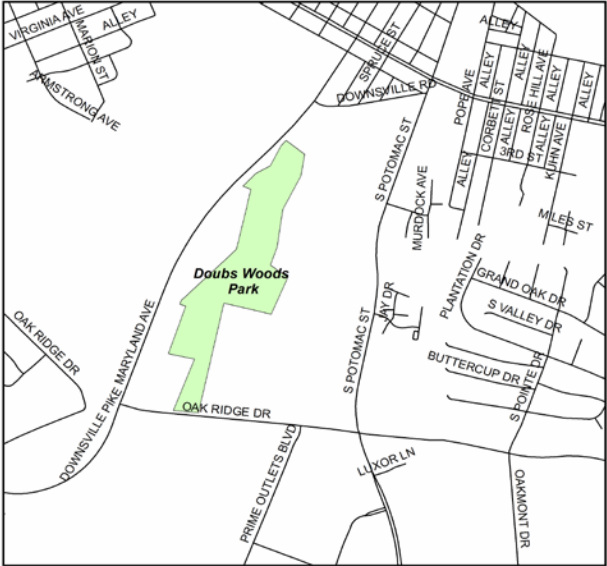
Project Title: Doubs Woods, Arts Pavilion Roof Replacement

Project Number: 1278

Account Number: PVL008

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will replace the 30 year old shingle roof with a metal roof.

Assumptions & Justifications:

Pending POS approval

The 30 year old shingle roof is degraded from age and physical elements.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	27,000	0	27,000	0	0	0	0	0	0
Total Cost	27,000	0	27,000	0	0	0	0	0	0

Funding Sources:

General Fund	3,000	0	3,000	0	0	0	0	0	0
State Grant	24,000	0	24,000	0	0	0	0	0	0
Total Funding	27,000	0	27,000	0	0	0	0	0	0

Project Title: Pavilion Apron Replacement, Various Parks

Project Number: 1279

Account Number: PVL009

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace asphalt pavilion aprons with concrete.

Assumptions & Justifications:

Pending POS approval

Existing asphalt aprons have deteriorated due to age and oxidation. The aprons have settled and cracked creating a tripping hazard for the public.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	20,000	0	20,000	0	0	0	0	0	0
Total Cost	20,000	0	20,000	0	0	0	0	0	0

Funding Sources:

General Fund	2,000	0	2,000	0	0	0	0	0	0
State Grant	18,000	0	18,000	0	0	0	0	0	0
Total Funding	20,000	0	20,000	0	0	0	0	0	0

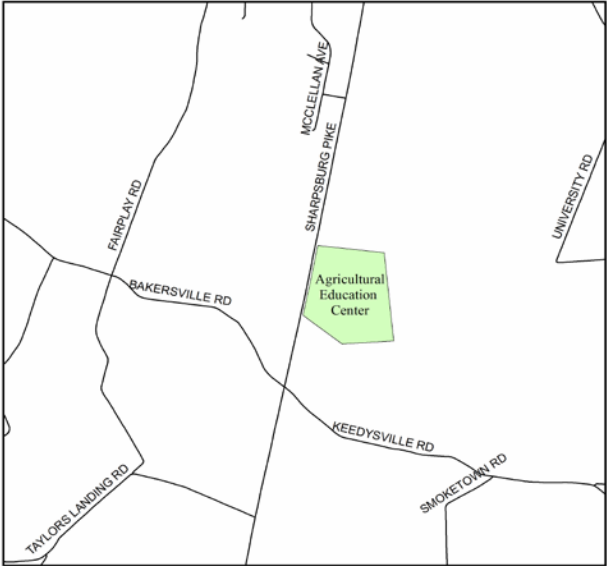
Project Title: Ag Center Drainage, Asphalt Improvements

Project Number: 1284

Account Number: ASP002

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project requires excavating 6000 square feet of asphalt, installation of 300 feet CMP drain, and installation of new asphalt.

Assumptions & Justifications:

Pending POS Approval

The existing asphalt is sunken, creating ponding of water and ice, in freezing conditions. The sunken area is in a high pedestrian traffic area creating a public safety hazard.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	20,000	0	20,000	0	0	0	0	0	0
Total Cost	20,000	0	20,000	0	0	0	0	0	0

Funding Sources:

General Fund	2,000	0	2,000	0	0	0	0	0	0
State Grant	18,000	0	18,000	0	0	0	0	0	0
Total Funding	20,000	0	20,000	0	0	0	0	0	0

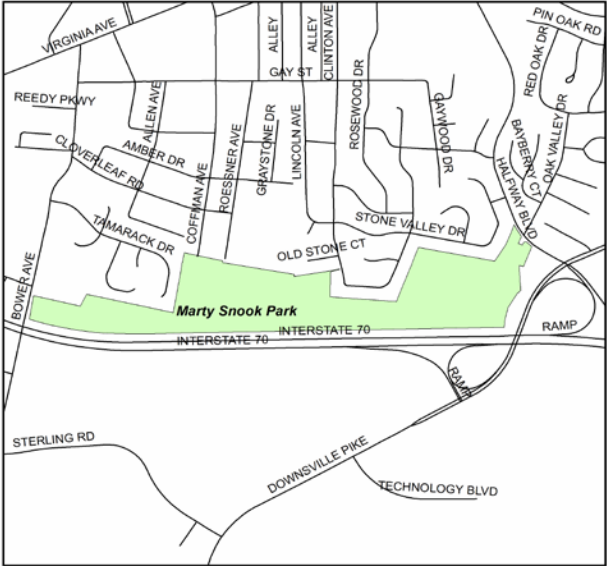
Project Title: Marty Snook Park Pool Return Grate Replacement

Project Number: 1285

Account Number: REC038

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will replace 500 feet of return grate.

Assumptions & Justifications:

Pending POS approval

The existing grates are in poor condition and replacement parts are obsolete.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	31,000	0	31,000	0	0	0	0	0	0
Total Cost	31,000	0	31,000	0	0	0	0	0	0

Funding Sources:

General Fund	4,000	0	4,000	0	0	0	0	0	0
State Grant	27,000	0	27,000	0	0	0	0	0	0
Total Funding	31,000	0	31,000	0	0	0	0	0	0

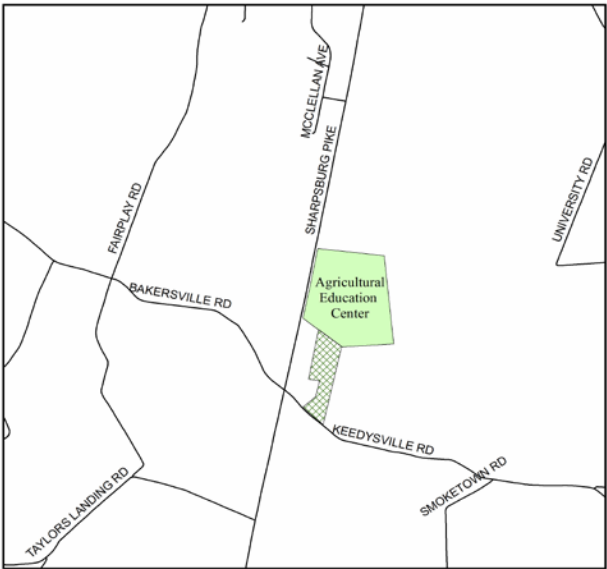
Project Title: Ag Center Land Acquisition Development

Project Number: 1290

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will develop the site to accommodate construction of the Equestrian Center. The project will include design plans, storm water improvements, and installation of water, sewer and electric.

Assumptions & Justifications:

Pending POS Approval

The property was acquired to relocate the Equestrian Center from the present location.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	84,000	0	0	42,000	42,000	0	0	0	0
Total Cost	84,000	0	0	42,000	42,000	0	0	0	0

Funding Sources:

General Fund	10,000	0	0	5,000	5,000	0	0	0	0
State Grant	74,000	0	0	37,000	37,000	0	0	0	0
Total Funding	84,000	0	0	42,000	42,000	0	0	0	0

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Public Safety

Public Safety
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs											
<u>Public Safety</u>											
146	Communications System Replacement	545,373	285,373	260,000	0	0	0	0	0	0	
147	Communication Tower(s) various locations	528,000	204,000	0	104,000	0	108,000	0	112,000	0	
148	Motorola Portable Radio Replacement Program	1,110,000	0	102,000	104,000	106,000	108,000	110,000	112,000	468,000	
149	Phase 2 - Detention Center Expansion	1,200,000	0	0	0	0	0	0	0	1,200,000	
150	Detention Center - Systemic Projects	3,520,000	550,000	450,000	260,000	265,000	270,000	275,000	280,000	1,170,000	
151	Emergency Svcs Equip & Vehicle Program	1,906,583	776,583	306,000	94,000	95,000	97,000	83,000	69,000	386,000	
152	Police, Fire and Emerg Svcs Training Facility	5,000,000	0	612,000	3,328,000	1,060,000	0	0	0	0	
153	Law Enforcement - Vehicle and Equipment Replacement Program	7,725,922	516,922	628,000	628,000	615,000	696,000	715,000	739,000	3,188,000	
Public Safety Total		21,535,878	2,332,878	2,358,000	4,518,000	2,141,000	1,279,000	1,183,000	1,312,000	6,412,000	
Funding Sources											
General Fund		6,423,873	725,873	961,000	693,000	592,000	592,000	484,000	758,000	1,618,000	
Tax Supported Bond		10,161,000	500,000	1,368,000	3,588,000	1,510,000	270,000	275,000	280,000	2,370,000	
Excise Tax - Other		290,000	0	29,000	29,000	29,000	29,000	29,000	29,000	116,000	
Excise Tax - Non-Residential		3,346,000	0	0	0	10,000	388,000	395,000	245,000	2,308,000	
Capital Reserve - General		1,315,005	1,107,005	0	208,000	0	0	0	0	0	
		21,535,878	2,332,878	2,358,000	4,518,000	2,141,000	1,279,000	1,183,000	1,312,000	6,412,000	

Project Title: Communications System Replacement

Project Number: 5

Account Number: EQP025

Projected Annual FTE's:

Projected Operating Costs: \$0

Description:

Replace existing county-wide radio communications equipment including Fixed Network, microwave components, and all mobile/portable equipment. Locations include ten tower sites, Emergency Operations Center, Sheriff's Patrol Facility, and all Fire and Rescue stations.

Assumptions & Justifications:

Existing system is functionally obsolete and in a fragile state. System is more than 40 years old with many components no longer available. System replacement is vital to maintaining adequate public safety throughout the County as well as enhancing services.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Equipment/Furniture	545,373	285,373	260,000	0	0	0	0	0	0
Total Cost	545,373	285,373	260,000	0	0	0	0	0	0

Funding Sources:

General Fund	545,373	285,373	260,000	0	0	0	0	0	0
Total Funding	545,373	285,373	260,000	0	0	0	0	0	0

Project Title: **Communication Tower(s) various locations**

Project Number: **1166**

Account Number: **COM027**

Projected Annual FTE's: **0**

Projected Operating Costs: **\$0**

Description:

The project includes the construction of new and replacement of old public safety communication towers at various sites.

Assumptions & Justifications:

Towers will hold public safety communications equipment and County wireless broad band equipment.

Existing towers were constructed in the 1970's and are structurally and functionally inadequate.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	528,000	204,000	0	104,000	0	108,000	0	112,000	0
Total Cost	528,000	204,000	0	104,000	0	108,000	0	112,000	0

Funding Sources:

General Fund	220,000	0	0	0	0	108,000	0	112,000	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	308,000	204,000	0	104,000	0	0	0	0	0
Total Funding	528,000	204,000	0	104,000	0	108,000	0	112,000	0

Project Title: Motorola Portable Radio Replacement Program

Project Number: 1297

Account Number: EQP060

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The Motorola Portable Radio Replacement Program focuses on the investment in Motorola portable radios used exclusively by Washington County government's public safety first responders (Sheriff's Office & Emergency Services personnel) to provide personal communication infrastructure in conjunction with the County's Motorola UHF Public Safety trunked radio system.

Assumptions & Justifications:

The Motorola portable radios provide the County's first responders with reliable communications to the County's 911 Dispatch Center and with other public safety talk groups and have a useful life-expectancy between 12 and 13 years, at which point these radios become increasingly costly to maintain and to remain interoperable with the County's Motorola UHF Public Safety trunked radio system which is refreshed every three to five years. Ninety percent of the current portable radio inventory was purchased during the initial phase of the implementation project in 2007.

The goal of the Motorola Portable Radio Replacement Program is to keep the County's Motorola UHF Public Safety trunked safety radio system useful, operable and responsive to the County's public safety needs and interoperable with Maryland's new 700 MHz state-wide public safety communications network.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	1,110,000	0	102,000	104,000	106,000	108,000	110,000	112,000	468,000
Total Cost	1,110,000	0	102,000	104,000	106,000	108,000	110,000	112,000	468,000

Funding Sources:

General Fund	1,006,000	0	102,000	0	106,000	108,000	110,000	112,000	468,000
Capital Reserve - General	104,000	0	0	104,000	0	0	0	0	0
Total Funding	1,110,000	0	102,000	104,000	106,000	108,000	110,000	112,000	468,000

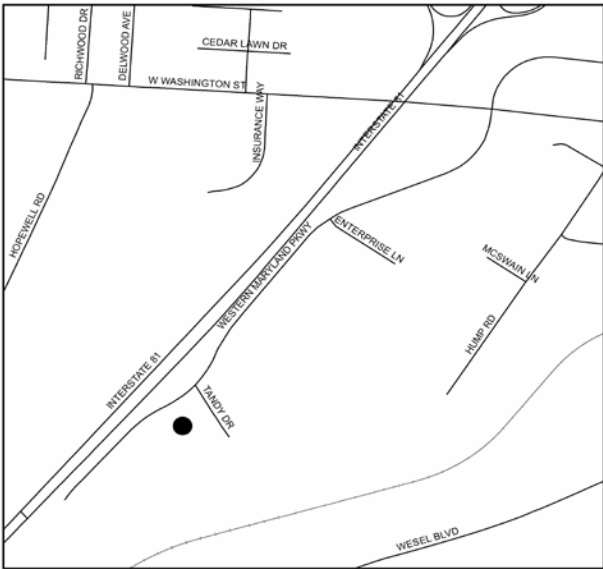
Project Title: Phase 2 - Detention Center Expansion

Project Number: 976

Account Number:

Projected Annual FTE's: 43

Projected Operating Costs: \$2,025,000



Description:

Phase 2 of the Detention Center expansion involves the building of a secure corridor between the existing Detention Center and the old Phoenix Color building. It also includes the moving of administration, food, Commissary, and laundry services to the old Phoenix Color building along with the building of two male 48 bed housing units. These housing units will house the kitchen trustees, work release inmates, and other trustees in the Detention Center.

Assumptions & Justifications:

The existing Detention Center was first occupied in 1984. The existing kitchen, laundry, and other core services were only designed to handle the capacity of the Detention Center that was constructed in 1984. Since that time, a JSAP wing and another male housing POD were added. This has created a condition where the core services have been overburdened for the services that each provides. The kitchen is currently too small to properly accommodate the amount of meals they provide now, let alone adding additional inmates on top of what already exists. The same is true of medical services and laundry services. The moving of food and laundry services to the Phoenix Color building provides the opportunity to oversize these facilities to not only accommodate the additional inmates added as part of the Phase 2 through 5 project of Detention Expansion, but will also accommodate additional growth to the Detention Center in the future. Medical and Booking can then be expanded into the areas vacated by moving food and laundry services to the other building.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	1,200,000	0	0	0	0	0	0	0	1,200,000
Construction	0	0	0	0	0	0	0	0	0
Equipment/Furniture	0	0	0	0	0	0	0	0	0
Total Cost	1,200,000	0	0	0	0	0	0	0	1,200,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	1,200,000	0	0	0	0	0	0	0	1,200,000
Total Funding	1,200,000	0	0	0	0	0	0	0	1,200,000

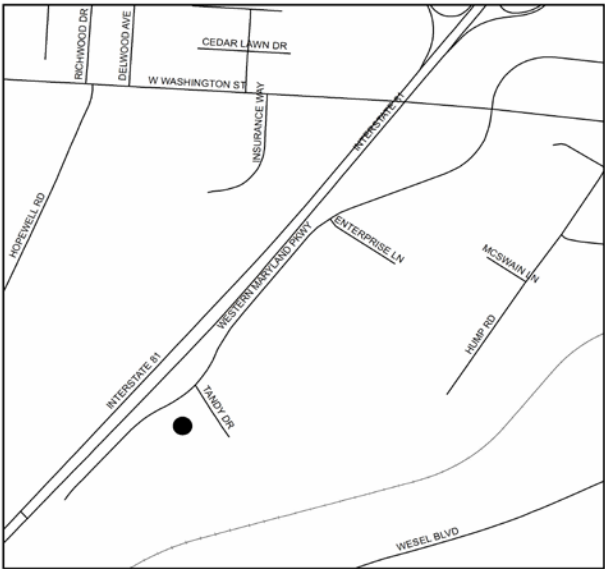
Project Title: Detention Center - Systemic Projects

Project Number: 1094

Account Number: BLD089

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project allows for major repairs and/or building improvements as needed for the Detention Center.

Assumptions & Justifications:

The Detention Center is an aging facility that is starting to need major repairs to maintain functionality and compliance.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Construction	550,000	550,000	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Equipment/Furniture	0	0	0	0	0	0	0	0	0
Other	2,970,000	0	450,000	260,000	265,000	270,000	275,000	280,000	1,170,000
Total Cost	3,520,000	550,000	450,000	260,000	265,000	270,000	275,000	280,000	1,170,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	3,470,000	500,000	450,000	260,000	265,000	270,000	275,000	280,000	1,170,000
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
Capital Reserve - General	50,000	50,000	0	0	0	0	0	0	0
Total Funding	3,520,000	550,000	450,000	260,000	265,000	270,000	275,000	280,000	1,170,000

Project Title: Emergency Svcs Equip & Vehicle Program**Project Number: 1214****Account Number: VEH009****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project is a 10-year capital equipment and vehicle replacement program for the County's Division of Emergency Services. DES needs to have a sustainable plan to replace critical vehicles utilized for emergency response.

Assumptions & Justifications:

FY2016 and FY2017 - Hazmat Unit \$585,000

Fire & Rescue Operations - 11520 - LifePak 15 Monitor Defibrillator - \$17,500; U CapIt Inventory Control System - \$20,000

Emergency services capital equipment and vehicle program is designed to graduate funding over a period of time, reduce maintenance cost and operational downtime due to age, mileage, and repair costs versus book values.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Vehicles	1,906,583	776,583	306,000	94,000	95,000	97,000	83,000	69,000	386,000
Total Cost	1,906,583	776,583	306,000	94,000	95,000	97,000	83,000	69,000	386,000

Funding Sources:

General Fund	864,500	40,500	0	94,000	95,000	97,000	83,000	69,000	386,000
Tax Supported Bond	306,000	0	306,000	0	0	0	0	0	0
Capital Reserve - General	736,083	736,083	0	0	0	0	0	0	0
Total Funding	1,906,583	776,583	306,000	94,000	95,000	97,000	83,000	69,000	386,000

Project Title: Police, Fire and Emerg Svcs Training Facility

Project Number: 955

Account Number: BLD093

Projected Annual FTE's: 1

Projected Operating Costs: \$300,000

Description:

As the need for police, fire, and emergency services continues to grow, the need for a facility for training emergency personnel grows as well. Such a facility would be centralized to the area, easily accessible, and utilized by state, county and local police departments, correctional guards, and security guards. Classroom training for fire and emergency services departments, that predominantly takes place currently in local fire houses, would be held in this facility. With the potential to utilize previously owned County property, the facility would allow for local law enforcement and Fire/EMS programs to migrate from the HCC facilities and have a designated public safety campus. The project would be constructed over several phases including the main building and other necessary training structures.

Assumptions & Justifications:

This facility will provide a needed local service to the large number of police, fire, correctional, and other emergency services personnel serving in and around Washington County, as well as provide training to people planning to enter those fields. As the area continues to grow, this will help meet the increasing demand for trained EMS personnel.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	612,000	0	612,000	0	0	0	0	0	0
Construction	3,328,000	0	0	3,328,000	0	0	0	0	0
Equipment/Furniture	1,060,000	0	0	0	1,060,000	0	0	0	0
Total Cost	5,000,000	0	612,000	3,328,000	1,060,000	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	5,000,000	0	612,000	3,328,000	1,060,000	0	0	0	0
Total Funding	5,000,000	0	612,000	3,328,000	1,060,000	0	0	0	0

Project Title: Law Enforcement - Vehicle and Equipment Replacement Program

Project Number: 1118

Account Number: VEH006

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project is for the replacement of public safety fleet inventory.

Assumptions & Justifications:

Detention Center - 11320 - Palm & Fingerprint Live Scan - \$22,950
Law Enforcement vehicle replacement schedule

The Sheriff's operations has approximately 136 vehicles maintained by its fleet maintenance department. A vehicle replacement program has been implemented and designed to reduce maintenance and operational downtime due to vehicle age, mileage, and repair cost versus book value.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Vehicles	7,725,922	516,922	628,000	628,000	615,000	696,000	715,000	739,000	3,188,000
Total Cost	7,725,922	516,922	628,000	628,000	615,000	696,000	715,000	739,000	3,188,000

Funding Sources:

General Fund	3,788,000	400,000	599,000	599,000	391,000	279,000	291,000	465,000	764,000
Tax Supported Bond	185,000	0	0	0	185,000	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Other	290,000	0	29,000	29,000	29,000	29,000	29,000	29,000	116,000
Excise Tax - Non-Residential	3,346,000	0	0	0	10,000	388,000	395,000	245,000	2,308,000
Capital Reserve - General	116,922	116,922	0	0	0	0	0	0	0
Total Funding	7,725,922	516,922	628,000	628,000	615,000	696,000	715,000	739,000	3,188,000

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Railroad Crossings

Railroad Crossings
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Project Costs										
<u>Railroad Crossings</u>										
156	Railroad Crossing Improvements	1,634,837	390,837	0	0	284,000	0	0	300,000	660,000
	Railroad Crossings Total	1,634,837	390,837	0	0	284,000	0	0	300,000	660,000
Funding Sources										
	General Fund	1,378,000	134,000	0	0	284,000	0	0	300,000	660,000
	Capital Reserve - General	256,837	256,837	0	0	0	0	0	0	0
		1,634,837	390,837	0	0	284,000	0	0	300,000	660,000

Project Title: Railroad Crossing Improvements

Project Number: 1140

Account Number: RRX003

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will provide crossing improvements based on a priority ranking of all crossings in the County. Improvements will include flattening the approach roadway grades and improving the alignment, installing signs and pavement markings, improving sight distance by removing trees/brush/rock outcroppings, and utility relocations.

Assumptions & Justifications:

The railroad study utilizes methodologies set forth in the Railroad Highway Grade Crossing Handbook published by the Federal Railroad Administration (FRA). In addition to analyzing each intersection for potential collision and sight distance hazards, other factors such as accident records, development potential in the area surrounding the crossing, number of school buses, and the overall condition of the crossing and the surrounding pavement will be taken into account in assessing the need for improvements to the crossing. The first phase of the work will involve installing passive warning devices (signs and pavement markings) to be in compliance with the Manual on Uniform Traffic Control Devices (MUTCD) and FRA. The second phase of work will involve providing road improvements. Some crossings may require installation of active warning devices (flashing lights, automatic gates, etc.). These improvements will be coordinated with the railroad companies.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	112,000	112,000	0	0	0	0	0	0	0
Construction	1,308,837	256,837	0	0	284,000	0	0	300,000	468,000
Inspection	192,000	0	0	0	0	0	0	0	192,000
Utilities	22,000	22,000	0	0	0	0	0	0	0
Total Cost	1,634,837	390,837	0	0	284,000	0	0	300,000	660,000

Funding Sources:

General Fund	1,378,000	134,000	0	0	284,000	0	0	300,000	660,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	256,837	256,837	0	0	0	0	0	0	0
Total Funding	1,634,837	390,837	0	0	284,000	0	0	300,000	660,000

Road Improvements

*Road Improvement
Capital Improvement Ten Year Summary
Fiscal Year 2017 – 2026*

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Project Costs										
Road Improvement										
159	Pavement Maintenance and Rehab Program	64,789,178	10,232,178	4,549,000	4,437,000	5,113,000	5,161,000	5,707,000	5,614,000	23,976,000
160	Longmeadow Road	539,400	10,400	0	0	0	0	0	0	529,000
161	Eastern Boulevard Extended	9,650,000	0	0	0	0	0	0	1,120,000	8,530,000
162	Southern Boulevard Phase I	10,224,100	8,975,100	969,000	280,000	0	0	0	0	0
163	E. Oak Ridge Drive/South Pointe Signal	338,000	0	0	0	0	114,000	0	224,000	0
164	Eastern Boulevard Widening Phase II	6,117,300	1,836,300	0	780,000	795,000	2,403,000	303,000	0	0
165	Transportation ADA	1,659,206	806,206	85,000	84,000	85,000	84,000	84,000	84,000	347,000
166	Halfway Boulevard Extended Phase II	720,000	0	0	0	0	0	0	0	720,000
167	Eastern Blvd at Antietam Drive Improvements	2,256,000	869,000	1,387,000	0	0	0	0	0	0
168	Colonel Henry K Douglas Drive Extended Bridge	440,000	0	0	0	0	0	0	0	440,000
169	Professional Boulevard Extended - Phase II	6,051,200	1,414,200	0	1,200,000	1,074,000	2,066,000	297,000	0	0
170	Professional Boulevard Bridge - Phase I	8,657,000	4,422,000	1,659,000	1,272,000	1,304,000	0	0	0	0
171	Marsh Pike from MD60 to Longmeadow	450,000	0	0	0	0	0	0	0	450,000
172	Mt Aetna Road Spot Improvements	780,000	0	0	0	0	0	0	0	780,000
173	Burnside Bridge Road Spot Improvements	552,000	0	0	0	0	0	0	0	552,000
174	Valley Mall Area Road Improvements Phase II	1,010,000	0	0	0	0	0	0	840,000	170,000
175	Intersection and Signal Improvements	446,000	369,000	77,000	0	0	0	0	0	0
176	Medical Campus Road Signal	432,000	0	0	432,000	0	0	0	0	0
177	Bucky Avenue	360,000	0	0	0	0	0	0	0	360,000
178	Colonel Henry K. Douglas Drive Extended Phase I	2,424,000	0	1,020,000	1,404,000	0	0	0	0	0
179	Professional Boulevard Extended - Phase III	1,724,000	0	0	0	0	0	652,000	1,072,000	0
180	Crayton Boulevard Extended	2,209,000	1,071,000	984,000	104,000	0	0	0	0	50,000
181	Highway Central Section - New Facility	480,000	0	0	0	0	0	0	0	480,000
182	HWY Equip and Vehicle Replacement Program	6,047,944	1,343,944	150,000	520,000	371,000	378,000	385,000	560,000	2,340,000
183	Highway Maintenance Shop - Western Section	376,000	153,000	88,000	135,000	0	0	0	0	0
184	Fuel Center - Central Highway Maintenance Facility	1,149,000	899,000	250,000	0	0	0	0	0	0
185	Highway Eastern Section - Fuel Tank Replacement	825,000	575,000	250,000	0	0	0	0	0	0
186	HWY Western Section - Fuel Tank Replacement	861,000	100,000	98,000	98,000	196,000	197,000	172,000	0	0
Road Improvement Total		131,567,328	33,076,328	11,566,000	10,746,000	8,938,000	10,403,000	7,600,000	9,514,000	39,724,000

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Funding Sources										
	General Fund	17,027,090	12,226,090	162,000	737,000	106,000	198,000	736,000	1,055,000	1,807,000
	Highway Fund	9,274,000	424,000	885,000	885,000	885,000	885,000	885,000	885,000	3,540,000
	Hotel Rental Fund	423,000	0	423,000	0	0	0	0	0	0
	Tax Supported Bond	71,069,500	7,159,500	6,969,000	5,894,000	6,163,000	7,744,000	4,520,000	6,347,000	26,273,000
	Transfer Tax	16,572,000	1,100,000	1,451,000	1,604,000	1,608,000	1,400,000	1,283,000	726,000	7,400,000
	Excise Tax - Roads	1,530,320	270,320	126,000	126,000	126,000	126,000	126,000	126,000	504,000
	Excise Tax - Other	29,000	29,000	0	0	0	0	0	0	0
	Excise Tax - Non-Residential	825,000	0	50,000	50,000	50,000	50,000	50,000	375,000	200,000
	Capital Reserve - Highway	575,000	575,000	0	0	0	0	0	0	0
	Capital Reserve - General	7,496,982	7,246,982	0	250,000	0	0	0	0	0
	Federal Grant	3,861,180	2,861,180	1,000,000	0	0	0	0	0	0
	State Grant	2,384,256	1,184,256	0	1,200,000	0	0	0	0	0
	Contributions	500,000	0	500,000	0	0	0	0	0	0
		131,567,328	33,076,328	11,566,000	10,746,000	8,938,000	10,403,000	7,600,000	9,514,000	39,724,000

Project Title: Pavement Maintenance and Rehab Program

Project Number: 13

Account Number: RDI024

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project includes the modification of county-wide pavement maintenance program targeting rehabilitation of county highway pavement, as required. Techniques may include but not be limited to road reclamation, bituminous concrete overlay, crack sealing, and surface treatment. Individual projects will be determined on an annual basis consistent with the County's overall Pavement Management Program.

Assumptions & Justifications:

Financial and engineering analysis has determined that at least an \$8M per year investment is necessary to keep up with pavement deterioration.

The project is needed to launch an aggressive overall highway pavement rehabilitation program to address major pavement deficiencies throughout our existing highway system. This program will result in longer service life of our pavements and improved service using the most cost effective treatment at the appropriate time.

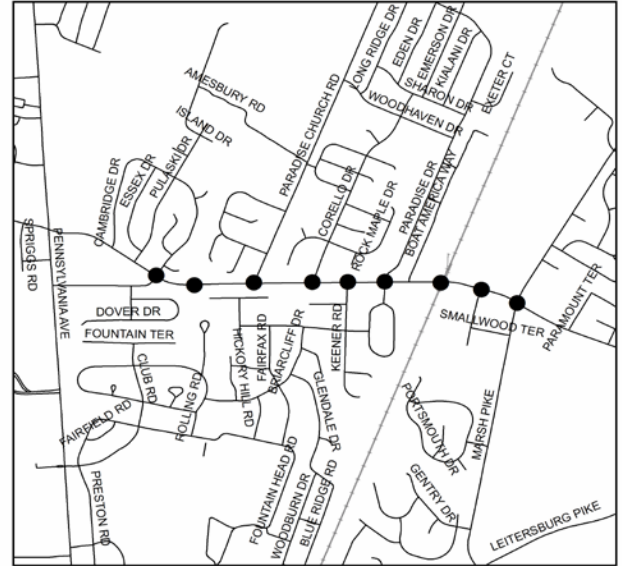
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	63,905,878	9,351,878	4,549,000	4,437,000	5,113,000	5,161,000	5,707,000	5,613,000	23,974,000
Inspection	883,300	880,300	0	0	0	0	0	1,000	2,000
Total Cost	64,789,178	10,232,178	4,549,000	4,437,000	5,113,000	5,161,000	5,707,000	5,614,000	23,976,000

Funding Sources:

General Fund	1,898,740	1,328,740	0	0	0	0	0	0	570,000
Highway Fund	6,571,000	0	549,000	437,000	339,000	688,000	713,000	885,000	2,960,000
Tax Supported Bond	32,419,000	2,235,000	2,373,000	2,220,000	2,990,000	2,897,000	3,535,000	3,827,000	12,342,000
Transfer Tax	16,572,000	1,100,000	1,451,000	1,604,000	1,608,000	1,400,000	1,283,000	726,000	7,400,000
Excise Tax - Roads	1,386,000	126,000	126,000	126,000	126,000	126,000	126,000	126,000	504,000
Excise Tax - Other	29,000	29,000	0	0	0	0	0	0	0
Excise Tax - Non-Residential	500,000	0	50,000	50,000	50,000	50,000	50,000	50,000	200,000
APFO Fees - Roads	0	0	0	0	0	0	0	0	0
Capital Reserve - General	5,413,438	5,413,438	0	0	0	0	0	0	0
Total Funding	64,789,178	10,232,178	4,549,000	4,437,000	5,113,000	5,161,000	5,707,000	5,614,000	23,976,000

Project Title: Longmeadow Road**Project Number: 20****Account Number: RDI037****Projected Annual FTE's: 0****Projected Operating Costs: \$4,000****Description:**

The project will provide capacity and safety enhancement to Longmeadow Road between Halifax Drive and Marsh Pike. The project includes widening Longmeadow Road to a three lane roadway and the construction of a traffic signal at the intersection with Paradise Church Road and/or Halifax Drive if warranted. The roadway will be a combination of open and closed section roadway with one lane in each direction and a continuous center left turn lane.

Assumptions & Justifications:

County funding is shown, however, private developer contributions will be sought for the signals if a private developer project is initiated in the area.

Current traffic volume on Longmeadow Road exceeds 12,000 vehicles per day, and is anticipated to continue to climb based on development. The roadway and intersections operate at unacceptable levels of service.

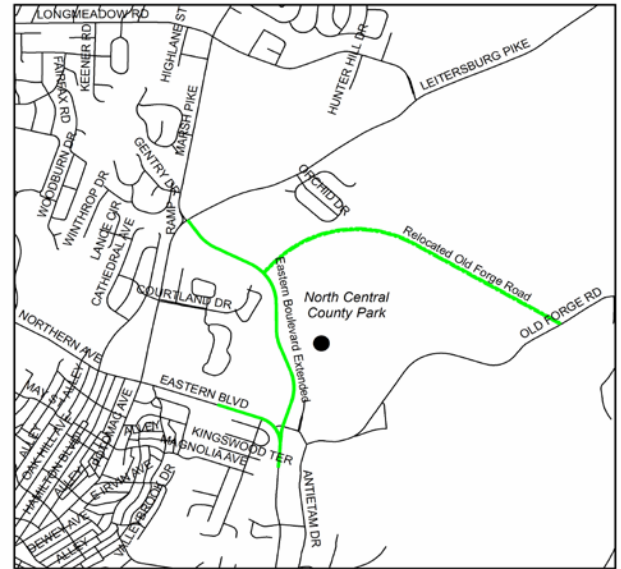
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Planning	59,400	10,400	0	0	0	0	0	0	49,000
Engineering/Design	480,000	0	0	0	0	0	0	0	480,000
Total Cost	539,400	10,400	0	0	0	0	0	0	529,000

Funding Sources:

General Fund	10,400	10,400	0	0	0	0	0	0	0
Tax Supported Bond	529,000	0	0	0	0	0	0	0	529,000
Total Funding	539,400	10,400	0	0	0	0	0	0	529,000

Project Title: Eastern Boulevard Extended**Project Number: 21****Account Number: RDI039****Projected Annual FTE's: 0****Projected Operating Costs: \$4,000****Description:**

The project involves the construction of a new roadway connecting Eastern Boulevard at Antietam Drive and Leistersburg Pike at Marsh Pike. The road is approximately 6,100' in length. The work involves construction of a new intersection at Antietam Drive and intersection improvements at MD 60/Marsh Pike that will include construction of a traffic signal or roundabout. The project also includes construction of a major drainage culvert.

Assumptions & Justifications:

The majority of the right-of-way is donated. The project assumes remaining lands necessary for completion can be obtained within budgeted values. The project involves construction of a four lane divided closed section roadway. SHA may require significant road widening along MD 60.

The project will relieve Eastern Blvd at Leistersburg Pike intersection congestion. The project provides significant enhancement to the transportation network increasing capacity, improving safety and providing access to developable land including a parcel planned for a future County park.

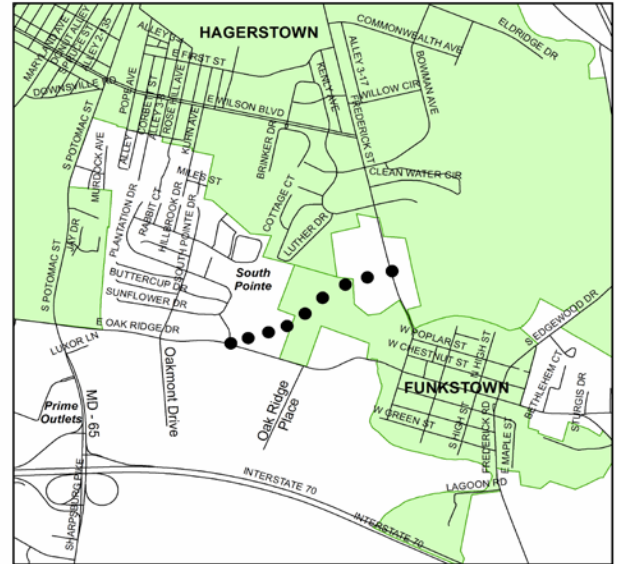
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	114,000	0	0	0	0	0	0	0	114,000
Land Acquisition	285,000	0	0	0	0	0	0	0	285,000
Construction	8,396,000	0	0	0	0	0	0	560,000	7,836,000
Inspection	295,000	0	0	0	0	0	0	0	295,000
Utilities	560,000	0	0	0	0	0	0	560,000	0
Total Cost	9,650,000	0	0	0	0	0	0	1,120,000	8,530,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	9,650,000	0	0	0	0	0	0	1,120,000	8,530,000
Total Funding	9,650,000	0	0	0	0	0	0	1,120,000	8,530,000

Project Title: Southern Boulevard Phase I**Project Number: 26****Account Number: RDI040****Projected Annual FTE's: 0****Projected Operating Costs: \$3,000****Description:**

The project involves the construction of Southern Boulevard between East Oak Ridge Drive near South Pointe Drive to Frederick Street (US 40A). The project includes construction of a two or four lane divided open section roadway and new intersections at each extent of the project, a roundabout at Frederick Street and a roundabout at East Oak Ridge Drive.

Assumptions & Justifications:

No new water and/or sewer network is included in this cost estimate.

The project is needed to provide congestion relief through Funkstown and will help accommodate increased traffic volumes from ongoing development in this area. The project will enhance the transportation system and improve safety. The project is part of the overall county-wide transportation plan.

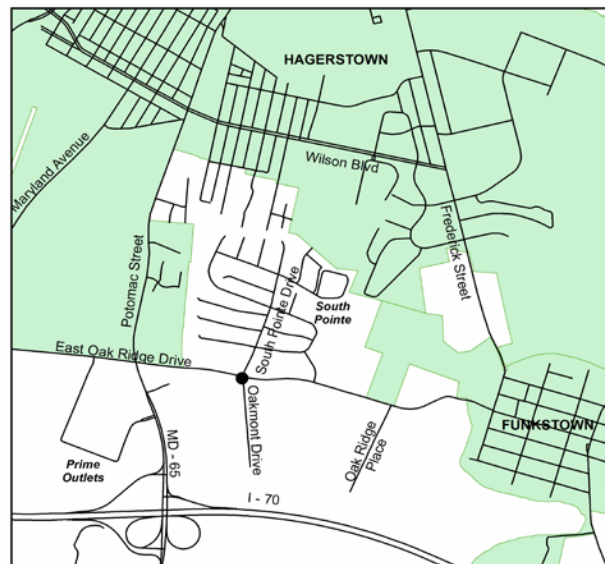
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Planning	20,000	20,000	0	0	0	0	0	0	0
Engineering/Design	393,000	393,000	0	0	0	0	0	0	0
Land Acquisition	1,111,000	1,111,000	0	0	0	0	0	0	0
Construction	8,157,500	7,112,500	765,000	280,000	0	0	0	0	0
Inspection	134,600	134,600	0	0	0	0	0	0	0
Utilities	408,000	204,000	204,000	0	0	0	0	0	0
Total Cost	10,224,100	8,975,100	969,000	280,000	0	0	0	0	0

Funding Sources:

General Fund	5,279,000	5,279,000	0	0	0	0	0	0	0
Tax Supported Bond	4,401,000	3,152,000	969,000	280,000	0	0	0	0	0
Capital Reserve - General	544,100	544,100	0	0	0	0	0	0	0
Total Funding	10,224,100	8,975,100	969,000	280,000	0	0	0	0	0

Project Title: E. Oak Ridge Drive/South Pointe Signal**Project Number: 964****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$1,000****Description:**

This project will construct a traffic signal at the intersection of E. Oak Ridge Drive and South Pointe Drive/Oakmont Drive.

Assumptions & Justifications:

Traffic volume increases in this area are making turning movements at this location more difficult and potentially unsafe. Once volumes warrant the signal, safety and traffic flow will be improved.

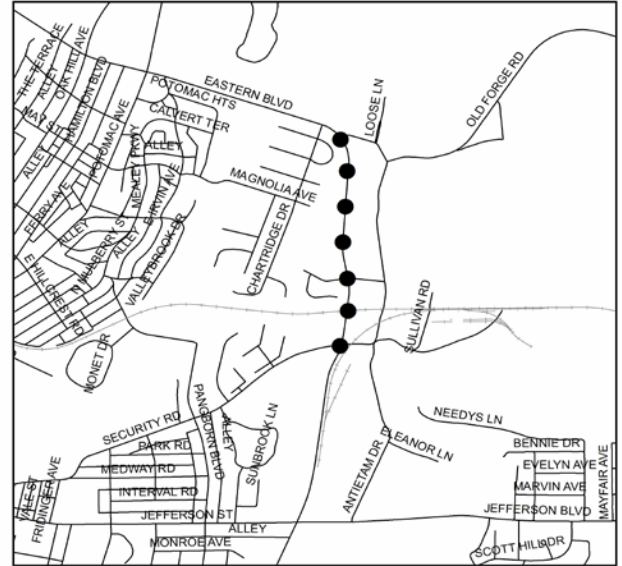
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	38,000	0	0	0	0	38,000	0	0	0
Land Acquisition	22,000	0	0	0	0	22,000	0	0	0
Construction	196,000	0	0	0	0	0	0	196,000	0
Inspection	28,000	0	0	0	0	0	0	28,000	0
Utilities	54,000	0	0	0	0	54,000	0	0	0
Total Cost	338,000	0	0	0	0	114,000	0	224,000	0

Funding Sources:

General Fund	338,000	0	0	0	0	114,000	0	224,000	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	338,000	0	0	0	0	114,000	0	224,000	0

Project Title: Eastern Boulevard Widening Phase II**Project Number: 972****Account Number: RDI044****Projected Annual FTE's: 0****Projected Operating Costs: \$2,000****Description:**

The project serves to rehabilitate and widen Eastern Boulevard from Security Road to Antietam Drive from the existing 2-lane roadway to a 4-lane divided roadway, including drainage improvements and an at grade railroad crossing.

Assumptions & Justifications:

This project assumes design and construction of an at grade railroad crossing.

Existing traffic volumes on Eastern Boulevard exceed capacity and land development activity is anticipated in the area. Regional growth in the greater Hagerstown area will cause traffic volumes to increase.

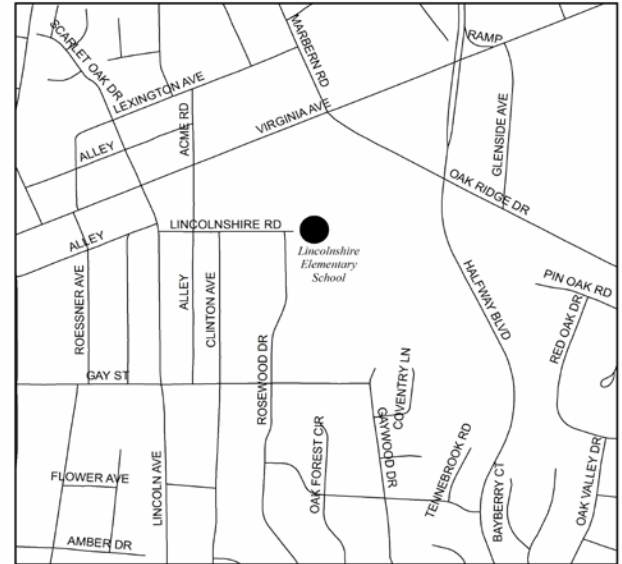
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	500,000	500,000	0	0	0	0	0	0	0
Land Acquisition	336,300	336,300	0	0	0	0	0	0	0
Construction	5,011,000	1,000,000	0	780,000	795,000	2,133,000	303,000	0	0
Inspection	270,000	0	0	0	0	270,000	0	0	0
Total Cost	6,117,300	1,836,300	0	780,000	795,000	2,403,000	303,000	0	0

Funding Sources:

General Fund	1,195,000	1,195,000	0	0	0	0	0	0	0
Tax Supported Bond	4,422,300	141,300	0	780,000	795,000	2,403,000	303,000	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Roads	144,320	144,320	0	0	0	0	0	0	0
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
Federal Grant	355,680	355,680	0	0	0	0	0	0	0
Total Funding	6,117,300	1,836,300	0	780,000	795,000	2,403,000	303,000	0	0

Project Title: Transportation ADA**Project Number: 1023****Account Number: LDI037****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project will provide upgrades to existing street crossings and facilities to comply with Americans with Disabilities (ADA) requirements. This includes providing pavement markings, signs, sidewalks, ramps, and accessible pedestrian signals as necessary to bring the existing conditions into compliance.

Assumptions & Justifications:

The project consists of a multi-year plan to achieve full compliance. The project received \$592,300 (FY13) from a Safe Routes to School Grant for a sidewalk extension project that will be constructed in accordance with ADA requirements (Lincolnshire Elementary School).

State and local governments must maintain accessible features in operable working condition to comply with Title II of ADA. At a minimum, government entities need to comply with certain administrative requirements, conduct a self-evaluation, involve the public, develop/implement a transition plan, and provide accessibility during construction. FHWA is now requiring sub-recipient entities to have and implement a transition plan to bring the transportation system into full compliance.

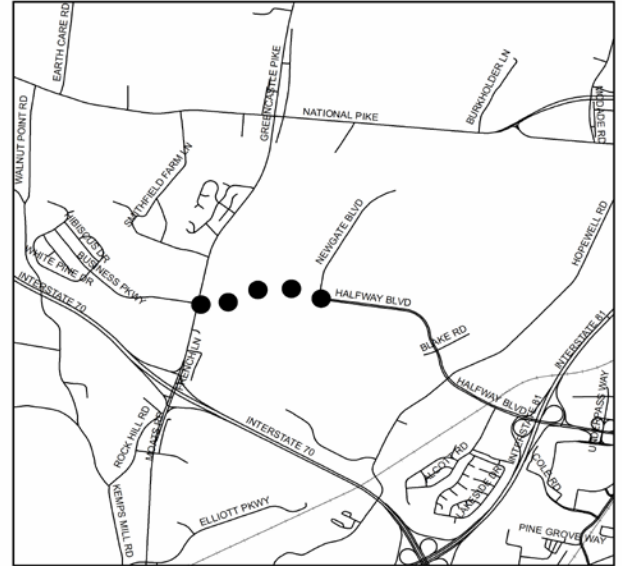
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Planning	74,700	74,700	0	0	0	0	0	0	0
Construction	1,584,506	731,506	85,000	84,000	85,000	84,000	84,000	84,000	347,000
Total Cost	1,659,206	806,206	85,000	84,000	85,000	84,000	84,000	84,000	347,000

Funding Sources:

General Fund	1,089,450	236,450	85,000	84,000	85,000	84,000	84,000	84,000	347,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Federal Grant	505,500	505,500	0	0	0	0	0	0	0
State Grant	64,256	64,256	0	0	0	0	0	0	0
Total Funding	1,659,206	806,206	85,000	84,000	85,000	84,000	84,000	84,000	347,000

Project Title: Halfway Boulevard Extended Phase II**Project Number: 1026****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$2,000****Description:**

The project involves the construction of a new four lane open section roadway connecting Halfway Boulevard Extended to MD Route 63. Intersection improvements at Halfway Boulevard extended and MD Route 63 include providing a traffic signal.

Assumptions & Justifications:

This project assumes developer contribution for land acquisition and a portion of the bridge cost, however none have been secured at this time.

The project is needed to provide additional road capacity and alternate routes resulting from continued and forecasted development in this area. The project provides an alternate access route to MD Route 63 and Interstate 70 for heavy truck traffic from industrial park on Halfway Boulevard Extended.

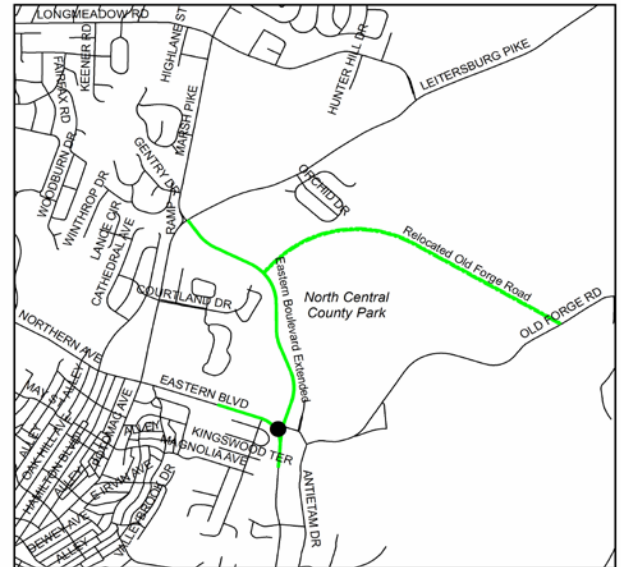
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	180,000	0	0	0	0	0	0	0	180,000
Land Acquisition	300,000	0	0	0	0	0	0	0	300,000
Construction	0	0	0	0	0	0	0	0	0
Inspection	240,000	0	0	0	0	0	0	0	240,000
Total Cost	720,000	0	0	0	0	0	0	0	720,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	720,000	0	0	0	0	0	0	0	720,000
Total Funding	720,000	0	0	0	0	0	0	0	720,000

Project Title: Eastern Blvd at Antietam Drive Improvements**Project Number: 1038****Account Number: RDI051****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project will provide intersection improvements at Antietam Drive. This project will connect the Eastern Boulevard Widening Phase II project with the Eastern Boulevard Extended project.

Assumptions & Justifications:

This project will be constructed with Eastern Boulevard Phase II.

Existing traffic volumes on Eastern Boulevard exceed capacity and land development activity is anticipated in the area. Regional growth in the greater Hagerstown area will cause traffic volumes to increase. Advancing this intersection project will enhance traffic safety and reduce travel speeds in the area.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	300,000	300,000	0	0	0	0	0	0	0
Land Acquisition	202,000	202,000	0	0	0	0	0	0	0
Construction	1,632,000	306,000	1,326,000	0	0	0	0	0	0
Inspection	122,000	61,000	61,000	0	0	0	0	0	0
Total Cost	2,256,000	869,000	1,387,000	0	0	0	0	0	0

Funding Sources:

General Fund	502,000	502,000	0	0	0	0	0	0	0
Tax Supported Bond	1,754,000	367,000	1,387,000	0	0	0	0	0	0
Excise Tax - Roads	0	0	0	0	0	0	0	0	0
Total Funding	2,256,000	869,000	1,387,000	0	0	0	0	0	0

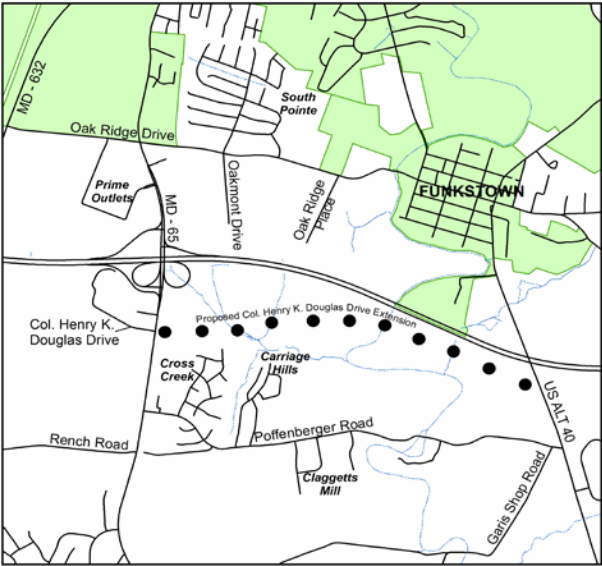
Project Title:Colonel Henry K Douglas Drive Extended Bridge

Project Number:1066

Account Number:

Projected Annual FTE's:0

Projected Operating Costs:\$2,000



Description:

The project involves the construction of a bridge over the Antietam Creek on Colonel Henry K Douglas Drive Extended (ADC Map 21, E-12). This project will connect Colonel Henry K Douglas Drive Extended Phase I (roadway on the west side of the Antietam Creek from Sharpsburg Pike to the bridge) to Colonel Henry K Douglas Drive Phase II (roadway on the east side of the Antietam Creek to Alternate 40).

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project has been identified as an economic opportunity for the County.

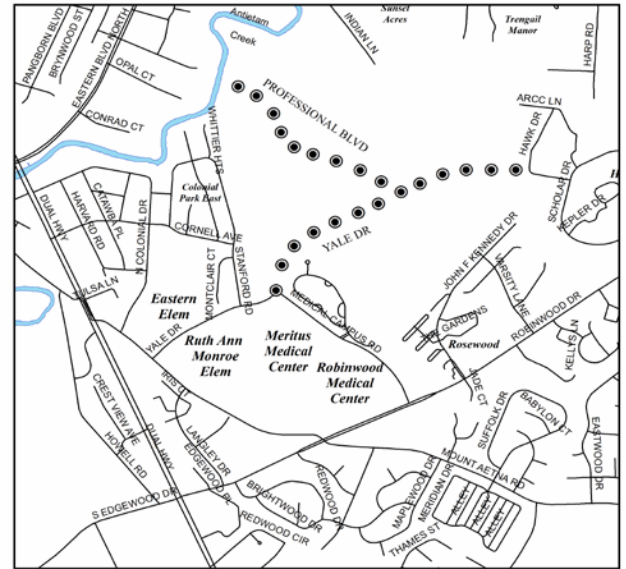
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	440,000	0	0	0	0	0	0	0	440,000
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Total Cost	440,000	0	0	0	0	0	0	0	440,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	440,000	0	0	0	0	0	0	0	440,000
Total Funding	440,000	0	0	0	0	0	0	0	440,000

Project Title: Professional Boulevard Extended - Phase II**Project Number: 1071****Account Number: RDI056****Projected Annual FTE's: 0****Projected Operating Costs: \$3,000****Description:**

The project involves the extension of Professional Court from a point 200 feet east of the proposed Antietam Creek Bridge (Project 1072) to Yale Drive Extended (Project 1093). The roadway length is approximately 2,700 feet. The project includes construction of a four lane closed section divided roadway that will connect into the roundabout intersection at Yale Drive.

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment). The County is currently seeking a state/federal grant to assist in covering construction costs. Includes ARC grant of \$1M for a portion of Phase II, referred to as Phase II-A. Also includes \$1.2M in State Aid for Phase II.

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic development opportunity for the County.

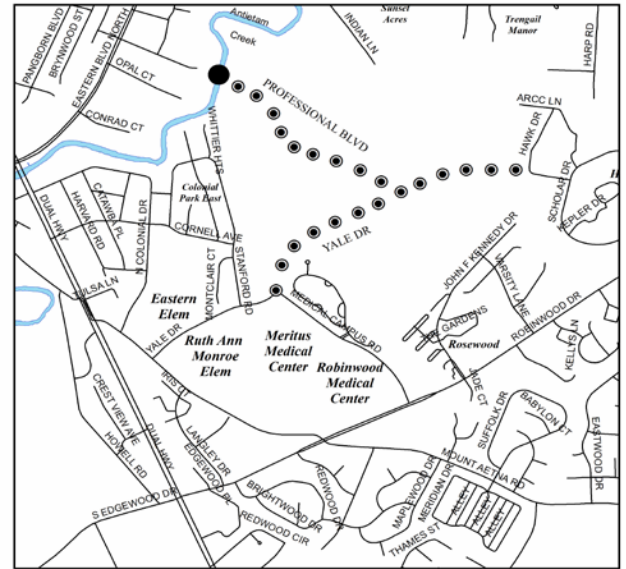
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	312,200	312,200	0	0	0	0	0	0	0
Land Acquisition	102,000	102,000	0	0	0	0	0	0	0
Construction	5,367,000	1,000,000	0	1,200,000	1,074,000	1,796,000	297,000	0	0
Inspection	270,000	0	0	0	0	270,000	0	0	0
Total Cost	6,051,200	1,414,200	0	1,200,000	1,074,000	2,066,000	297,000	0	0

Funding Sources:

General Fund	125,000	125,000	0	0	0	0	0	0	0
Tax Supported Bond	3,726,200	289,200	0	0	1,074,000	2,066,000	297,000	0	0
Federal Grant	1,000,000	1,000,000	0	0	0	0	0	0	0
State Grant	1,200,000	0	0	1,200,000	0	0	0	0	0
Contributions	0	0	0	0	0	0	0	0	0
Total Funding	6,051,200	1,414,200	0	1,200,000	1,074,000	2,066,000	297,000	0	0

Project Title: Professional Boulevard Bridge - Phase I**Project Number: 1072****Account Number: RDI055****Projected Annual FTE's: 0****Projected Operating Costs: \$1,000****Description:**

The project involves the extension of Professional Court over Antietam Creek to a point 200' east of the proposed bridge. This project will connect to the proposed Professional Boulevard Extended Phase II (Project 1071) roadway that connects to Yale Drive Extended (Project 1093). The project length is approximately 1,000 LF (including bridge). The project includes construction of a four lane closed section roadway and the construction of a four lane bridge over Antietam Creek.

Assumptions & Justifications:

A state grant was received from the Secretary of the Maryland Department of Transportation for design of the bridge (\$1,120,000). No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic opportunity for the City/County.

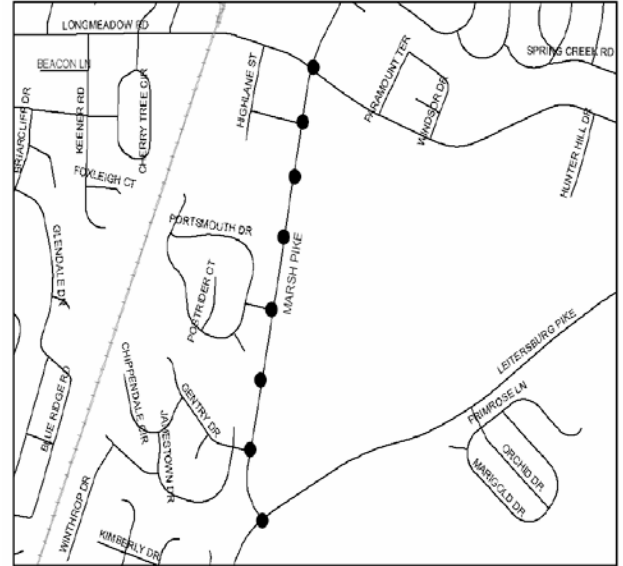
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	1,522,000	1,522,000	0	0	0	0	0	0	0
Land Acquisition	612,000	0	612,000	0	0	0	0	0	0
Construction	6,279,000	2,900,000	1,047,000	1,272,000	1,060,000	0	0	0	0
Inspection	244,000	0	0	0	244,000	0	0	0	0
Total Cost	8,657,000	4,422,000	1,659,000	1,272,000	1,304,000	0	0	0	0

Funding Sources:

General Fund	3,025,000	3,025,000	0	0	0	0	0	0	0
Hotel Rental Fund	423,000	0	423,000	0	0	0	0	0	0
Tax Supported Bond	4,089,000	277,000	1,236,000	1,272,000	1,304,000	0	0	0	0
Federal Grant	0	0	0	0	0	0	0	0	0
State Grant	1,120,000	1,120,000	0	0	0	0	0	0	0
Contributions	0	0	0	0	0	0	0	0	0
Total Funding	8,657,000	4,422,000	1,659,000	1,272,000	1,304,000	0	0	0	0

Project Title: Marsh Pike from MD60 to Longmeadow**Project Number:** 1091**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$2,000**Description:**

The project will provide road capacity and safety enhancement on Marsh Pike between Leithsburg Pike (MD 60) and Longmeadow Road. The project includes widening of Marsh Pike and will connect Eastern Boulevard Extended to the new intersection at Marsh Pike and Longmeadow Road. The roadway will be a four lane closed section roadway.

Assumptions & Justifications:

Although full County funding is shown, it is possible that developer contributions may be forthcoming due to APFO obligations. No new water and/or sewer network is included in this cost estimate.

The project is needed to provide additional road capacity resulting from continued development in this area.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	450,000	0	0	0	0	0	0	0	450,000
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Total Cost	450,000	0	0	0	0	0	0	0	450,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	450,000	0	0	0	0	0	0	0	450,000
Total Funding	450,000	0	0	0	0	0	0	0	450,000

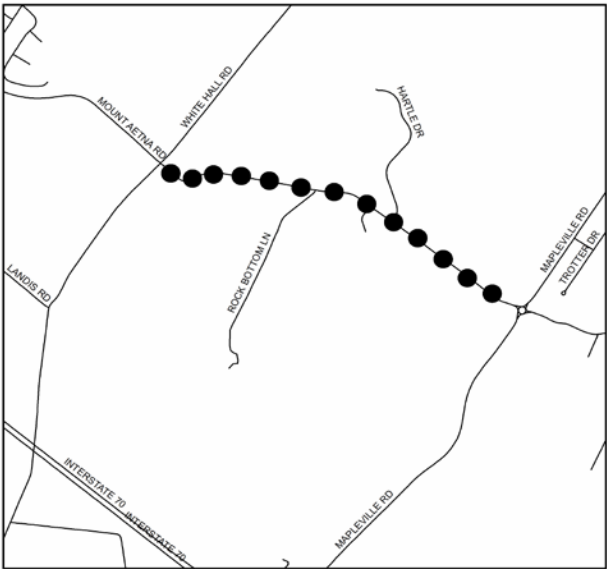
Project Title: Mt Aetna Road Spot Improvements

Project Number: 1108

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$3,000



Description:

The project includes providing spot improvements to Mt Aetna Road to improve sight distance, and vertical/horizontal curves.

Assumptions & Justifications:

Mt Aetna Road has several locations that have been identified as inadequate as defined in the "Road Adequacy Policy". Development in the vicinity has caused an increase in traffic.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	60,000	0	0	0	0	0	0	0	60,000
Construction	720,000	0	0	0	0	0	0	0	720,000
Inspection	0	0	0	0	0	0	0	0	0
Total Cost	780,000	0	0	0	0	0	0	0	780,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	780,000	0	0	0	0	0	0	0	780,000
Total Funding	780,000	0	0	0	0	0	0	0	780,000

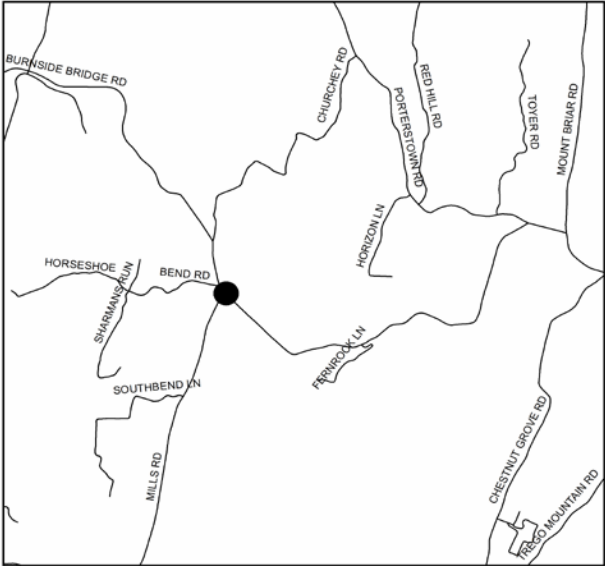
Project Title: Burnside Bridge Road Spot Improvements

Project Number: 1130

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will provide for spot road improvements to Burnside Bridge Road at the intersection with Mills Road. The project includes correcting vertical curves and horizontal curves (blind hills).

Assumptions & Justifications:

Burnside Bridge Road at Mills Road intersection has been identified as inadequate as defined in the Road Adequacy Policy.

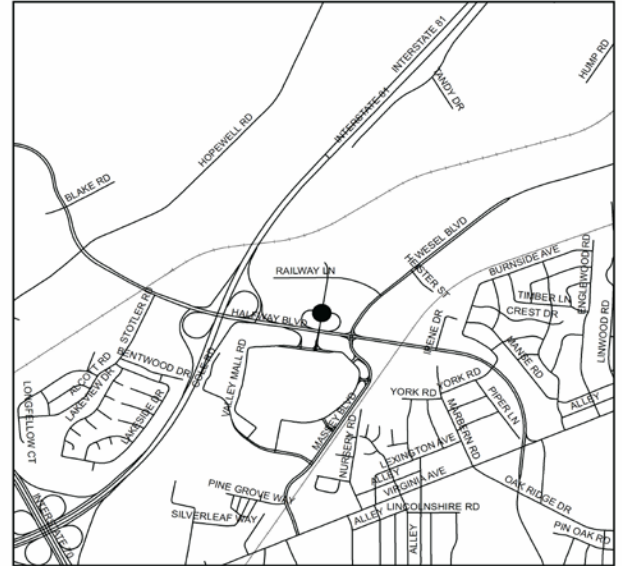
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	90,000	0	0	0	0	0	0	0	90,000
Land Acquisition	30,000	0	0	0	0	0	0	0	30,000
Construction	300,000	0	0	0	0	0	0	0	300,000
Inspection	72,000	0	0	0	0	0	0	0	72,000
Utilities	60,000	0	0	0	0	0	0	0	60,000
Total Cost	552,000	0	0	0	0	0	0	0	552,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	552,000	0	0	0	0	0	0	0	552,000
Total Funding	552,000	0	0	0	0	0	0	0	552,000

Project Title: Valley Mall Area Road Improvements Phase II**Project Number: 1167****Account Number: RDI062****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project includes intersection reconstruction on Underpass Way at the on/off ramps to/from Halfway Blvd. The project will convert a stop controlled intersection to a roundabout intersection.

Assumptions & Justifications:

The intersection operates at an unacceptable level of service. Poor level of service is preventing further economic development in the area.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	1,010,000	0	0	0	0	0	0	840,000	170,000
Utilities	0	0	0	0	0	0	0	0	0
Total Cost	1,010,000	0	0	0	0	0	0	840,000	170,000

Funding Sources:

Hotel Rental Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	1,010,000	0	0	0	0	0	0	840,000	170,000
Transfer Tax	0	0	0	0	0	0	0	0	0
Total Funding	1,010,000	0	0	0	0	0	0	840,000	170,000

Project Title: Intersection and Signal Improvements**Project Number:** 1194**Account Number:** EQP052**Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

This project involves providing battery backup and miscellaneous signal enhancements during power outages to signalized intersections maintained by the County.

Assumptions & Justifications:

The signalized intersections are: Maugans Avenue and Volvo Way, Maugans Avenue and Crayton Boulevard, Halfway Boulevard and Massey Boulevard, Halfway Boulevard and Cole Road, Massey Boulevard and Valley Mall Entrance, Longmeadow Road and Marsh Pike, Mount Aetna and Yale Drive, Leitersburg-Smithburg Road and School Entrance, Halfway Boulevard and Railway Lane, Halfway Boulevard and York Road, Halfway Boulevard and Hopewell Road, Eastern Boulevard and Security Boulevard, North Edgewood Drive and Mount Aetna Road, Robinwood Drive and Academic Drive.

Backup power will improve the safety of intersections and eliminate the need for law enforcement and/or highway department personnel to maintain the operation of the intersection during power outages.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	86,000	60,000	26,000	0	0	0	0	0	0
Construction	360,000	309,000	51,000	0	0	0	0	0	0
Total Cost	446,000	369,000	77,000	0	0	0	0	0	0

Funding Sources:

General Fund	77,000	0	77,000	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	369,000	369,000	0	0	0	0	0	0	0
Total Funding	446,000	369,000	77,000	0	0	0	0	0	0

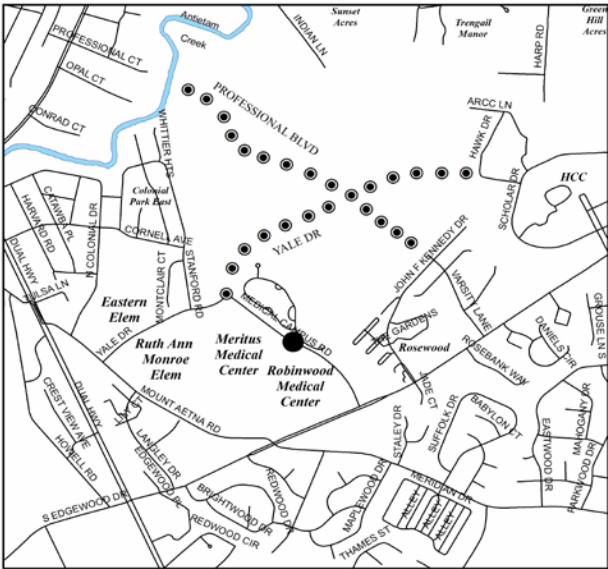
Project Title: Medical Campus Road Signal

Project Number: 1197

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$1,000



Description:

The project involves the construction of a traffic signal with left turn lanes at the intersection of Medical Campus Road and Tranquility Circle.

Assumptions & Justifications:

Traffic volume increases in this area are making turning movements at this location more difficult and potentially unsafe. Once volumes warrant the signal, safety and traffic flow will be improved.

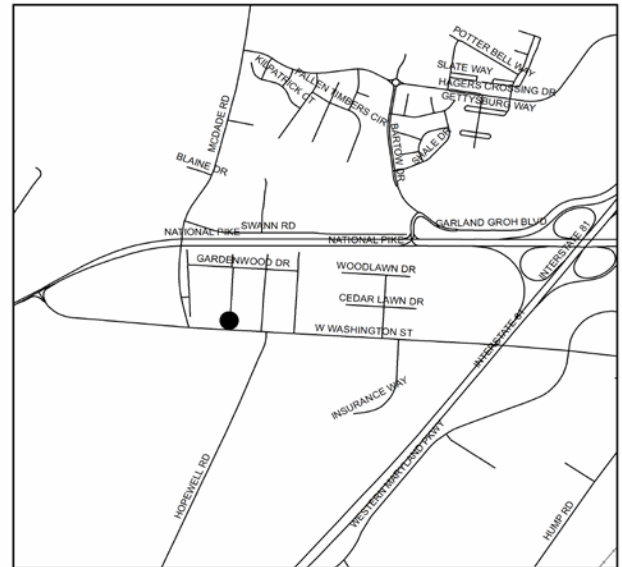
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	416,000	0	0	416,000	0	0	0	0	0
Inspection	16,000	0	0	16,000	0	0	0	0	0
Total Cost	432,000	0	0	432,000	0	0	0	0	0

Funding Sources:

General Fund	348,000	0	0	348,000	0	0	0	0	0
Hotel Rental Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	84,000	0	0	84,000	0	0	0	0	0
Total Funding	432,000	0	0	432,000	0	0	0	0	0

Project Title: Bucky Avenue**Project Number:** 1249**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

The project involves the extension of Bucky Avenue to Maryland Route 144 (ADC Map 20, G-4). Additionally, drainage and intersection improvements will be made as part of this project.

Assumptions & Justifications:

This work will improve traffic safety in this area.

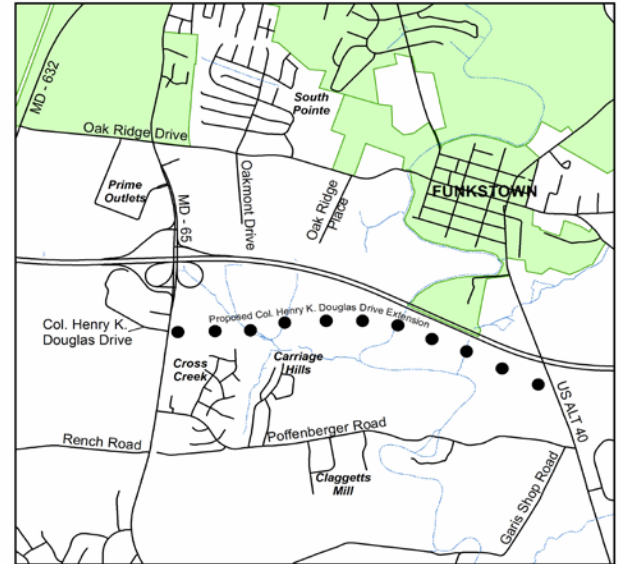
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Land Acquisition	24,000	0	0	0	0	0	0	0	24,000
Construction	240,000	0	0	0	0	0	0	0	240,000
Inspection	72,000	0	0	0	0	0	0	0	72,000
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	360,000	0	0	0	0	0	0	0	360,000

Funding Sources:

General Fund	360,000	0	0	0	0	0	0	0	360,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	360,000	0	0	0	0	0	0	0	360,000

Project Title: Colonel Henry K. Douglas Drive Extended Phase I**Project Number: 1250****Account Number: RDI067****Projected Annual FTE's: 0****Projected Operating Costs: \$1,000****Description:**

The project involves the extension of Colonel Henry K. Douglas Drive from Sharpsburg Pike (Maryland Route 65) to the north side of the Cross Creek development (ADC Map 21, D-12). The roadway is approximately one-quarter mile long and will include construction of a three lane closed section roadway (one lane in each direction with a continuous center left turn lane).

Assumptions & Justifications:

An ARC grant in the amount of \$1,000,000 has been secured for this project. No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic development opportunity for the County.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	2,320,000	0	1,020,000	1,300,000	0	0	0	0	0
Inspection	104,000	0	0	104,000	0	0	0	0	0
Total Cost	2,424,000	0	1,020,000	1,404,000	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Hotel Rental Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	1,174,000	0	20,000	1,154,000	0	0	0	0	0
Capital Reserve - General	250,000	0	0	250,000	0	0	0	0	0
Federal Grant	1,000,000	0	1,000,000	0	0	0	0	0	0
Total Funding	2,424,000	0	1,020,000	1,404,000	0	0	0	0	0

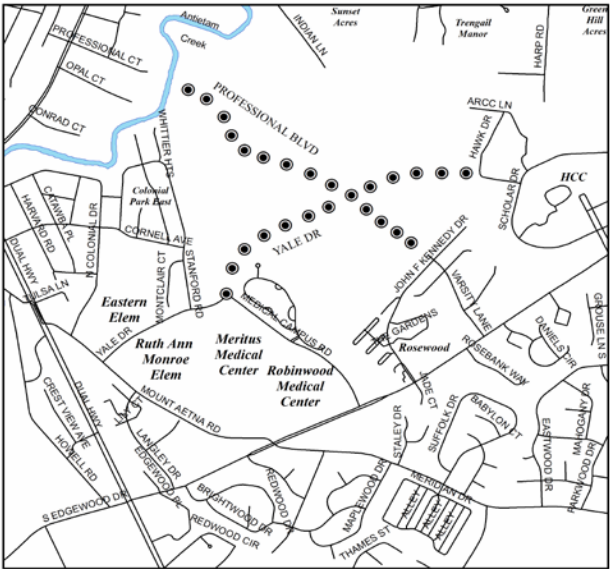
Project Title: Professional Boulevard Extended - Phase III

Project Number: 1254

Account Number: RDI064

Projected Annual FTE's: 0

Projected Operating Costs: \$1,000



Description:

The project involves the construction of a segment of Professional Boulevard south from the second Yale Drive roundabout continuing southeast towards Phase IV and Robinwood Drive. The roadway length is approximately 900 feet. The project includes construction of a four lane closed section roadway.

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic development opportunity for the County.

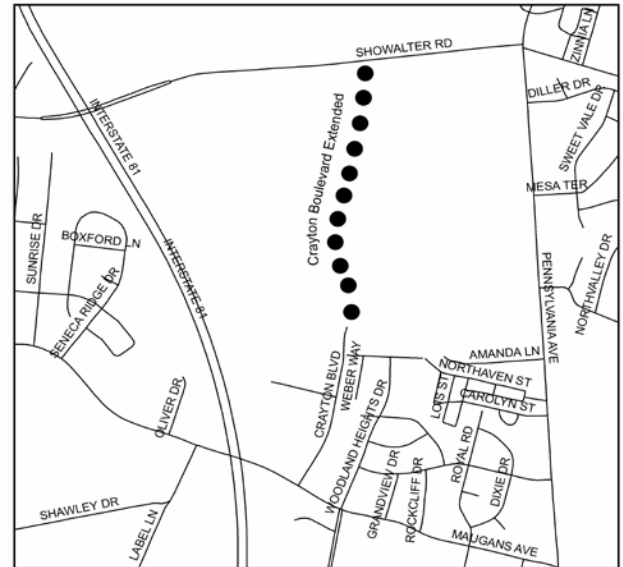
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	1,559,000	0	0	0	0	0	487,000	1,072,000	0
Inspection	165,000	0	0	0	0	0	165,000	0	0
Total Cost	1,724,000	0	0	0	0	0	652,000	1,072,000	0

Funding Sources:

General Fund	1,399,000	0	0	0	0	0	652,000	747,000	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Excise Tax - Non-Residential	325,000	0	0	0	0	0	0	325,000	0
Total Funding	1,724,000	0	0	0	0	0	652,000	1,072,000	0

Project Title: Crayton Boulevard Extended**Project Number: 1259****Account Number: RDI065****Projected Annual FTE's: 0****Projected Operating Costs: \$1,000****Description:**

The project involves the construction of Crayton Boulevard between Maugans Avenue and Showalter Road. The project includes construction of a three lane closed section roadway (one lane in each direction with a continuous center left turn lane). The project length is approximately 1,600 LF.

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment). An ARC grant in the amount of \$1,000,000 is being secured for this project. This project assumes \$500,000 in private developer contributions.

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project has been identified as an economic development opportunity for the County.

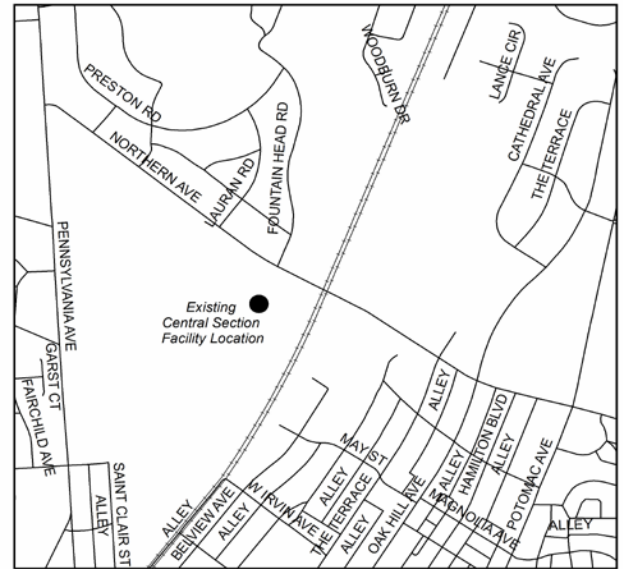
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	51,000	51,000	0	0	0	0	0	0	0
Construction	2,005,000	1,020,000	831,000	104,000	0	0	0	0	50,000
Inspection	153,000	0	153,000	0	0	0	0	0	0
Total Cost	2,209,000	1,071,000	984,000	104,000	0	0	0	0	50,000

Funding Sources:

General Fund	50,000	0	0	0	0	0	0	0	50,000
Tax Supported Bond	659,000	71,000	484,000	104,000	0	0	0	0	0
Federal Grant	1,000,000	1,000,000	0	0	0	0	0	0	0
Contributions	500,000	0	500,000	0	0	0	0	0	0
Total Funding	2,209,000	1,071,000	984,000	104,000	0	0	0	0	50,000

Project Title: Highway Central Section - New Facility**Project Number:** 1100**Account Number:** BLD083**Projected Annual FTE's:** 0**Projected Operating Costs:** \$20,000**Description:**

The project consists of acquisition of land, plan, design, and construction of a new central section highway maintenance facility and a new central fleet maintenance facility. The project will include offices, fleet maintenance facility, vehicle storage facility, vehicle wash station, employee locker room, material and equipment storage building, road salt and material storage bins, sign and traffic signal shop, and other highway and fleet maintenance structures and facilities.

Assumptions & Justifications:

The facility shall be located within the central highway maintenance section service area. The existing facility could be sold or a portion retained for continued operation of the fuel center, pending analysis.

The existing facility is more than 60 years old, land locked and located within a FEMA designated floodplain. These constraints restrict the department from renovating and expanding to meet current and projected demands on the department. The proximity to existing streams creates unique pollution prevention requirements due to the type of operation and activities performed at the existing facility.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	480,000	0	0	0	0	0	0	0	480,000
Total Cost	480,000	0	0	0	0	0	0	0	480,000

Funding Sources:

General Fund	480,000	0	0	0	0	0	0	0	480,000
Total Funding	480,000	0	0	0	0	0	0	0	480,000

Project Title: HWY Equip and Vehicle Replacement Program

Project Number: 1119

Account Number: EQP042

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will replace vehicles and heavy/specialized equipment for maintenance and construction activity.

Assumptions & Justifications:

Recommendation for replacement is based on a review of policy, equipment condition, and consideration of funding levels that exist.

The County maintains an inventory of specialized and heavy equipment for maintenance and construction activities. Each year, the Public Works Department analyzes the condition of this equipment to identify candidates for replacement. This analysis is conducted in conjunction with the user departments and focuses on factors such as age, mileage and/or hours, and life-to-date repair history.

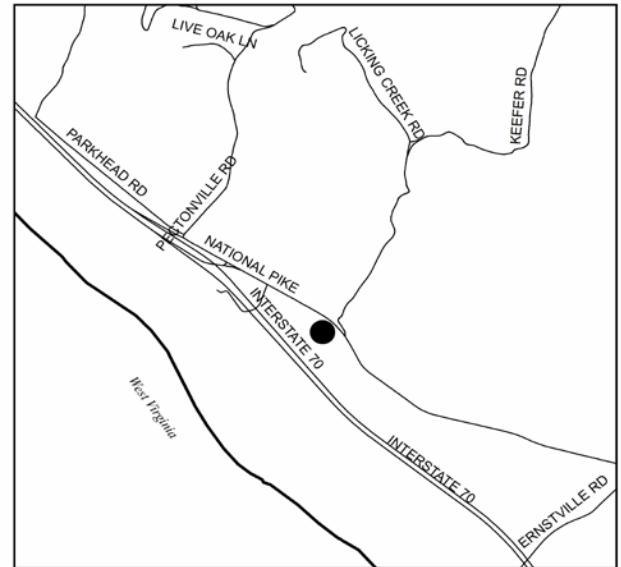
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	6,047,944	1,343,944	150,000	520,000	371,000	378,000	385,000	560,000	2,340,000
Total Cost	6,047,944	1,343,944	150,000	520,000	371,000	378,000	385,000	560,000	2,340,000

Funding Sources:

General Fund	464,500	273,500	0	170,000	21,000	0	0	0	0
Highway Fund	1,580,000	150,000	150,000	350,000	350,000	0	0	0	580,000
Tax Supported Bond	3,083,000	0	0	0	0	378,000	385,000	560,000	1,760,000
Capital Reserve - General	920,444	920,444	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	6,047,944	1,343,944	150,000	520,000	371,000	378,000	385,000	560,000	2,340,000

Project Title: Highway Maintenance Shop - Western Section**Project Number: 1122****Account Number: BLD084****Projected Annual FTE's: 0****Projected Operating Costs: \$3,000****Description:**

This project will provide for the construction of a 1,500 SF building addition to the garage area at the western section highway maintenance shop. Additional space is needed to perform maintenance on vehicles, which currently must occur outside (including during inclement weather).

Assumptions & Justifications:

The site is a highway maintenance facility in a remote area critical for winter weather operations and response to public emergency situations.

Highway maintenance is a core county service.

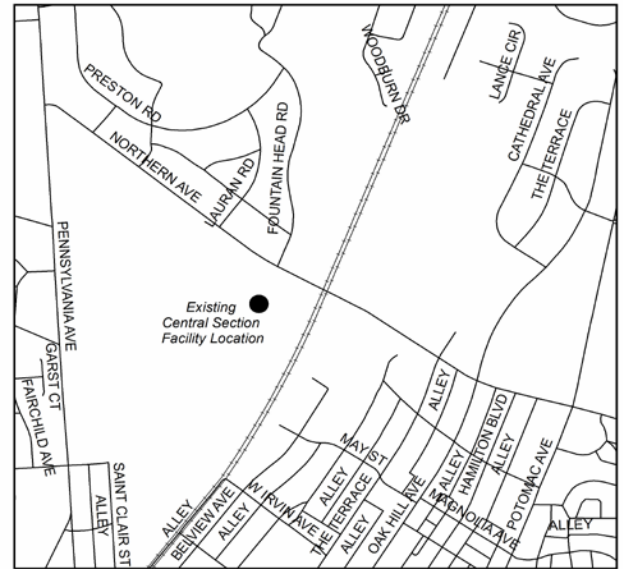
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	37,000	0	37,000	0	0	0	0	0	0
Construction	308,000	153,000	51,000	104,000	0	0	0	0	0
Inspection	31,000	0	0	31,000	0	0	0	0	0
Total Cost	376,000	153,000	88,000	135,000	0	0	0	0	0

Funding Sources:

General Fund	186,000	51,000	0	135,000	0	0	0	0	0
Highway Fund	88,000	0	88,000	0	0	0	0	0	0
Tax Supported Bond	102,000	102,000	0	0	0	0	0	0	0
Total Funding	376,000	153,000	88,000	135,000	0	0	0	0	0

Project Title: Fuel Center - Central Highway Maintenance Facility**Project Number: 1144****Account Number: BLD069****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

The project will replace existing diesel and gasoline fuel center at the central highway maintenance facility. The existing underground storage tanks are old style steel tanks under impressed current cathodic protection. The project includes modernizing existing pumps, adding controlled access, and integrated software systems to match existing fuel center systems used elsewhere in County Government.

Assumptions & Justifications:

Tanks are 20+ yrs old and present an increased liability of an environmental release. There are currently more than 45 agencies using this fuel site. The project shall dramatically reduce environmental threat of the underground tanks and leaking pipes. The project should be evaluated with the new facility (project 1122).

Although this project has circulated in discussions for more than a decade, a recent tank leak inspection failed in early 2011 that led to the department being issued a verbal warning from the MDE concerning the county's obligation to upgrade the site to current environmental law.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	125,000	125,000	0	0	0	0	0	0	0
Construction	973,500	723,500	250,000	0	0	0	0	0	0
Inspection	50,500	50,500	0	0	0	0	0	0	0
Total Cost	1,149,000	899,000	250,000	0	0	0	0	0	0

Funding Sources:

General Fund	200,000	200,000	0	0	0	0	0	0	0
Highway Fund	174,000	174,000	0	0	0	0	0	0	0
Tax Supported Bond	775,000	525,000	250,000	0	0	0	0	0	0
Total Funding	1,149,000	899,000	250,000	0	0	0	0	0	0

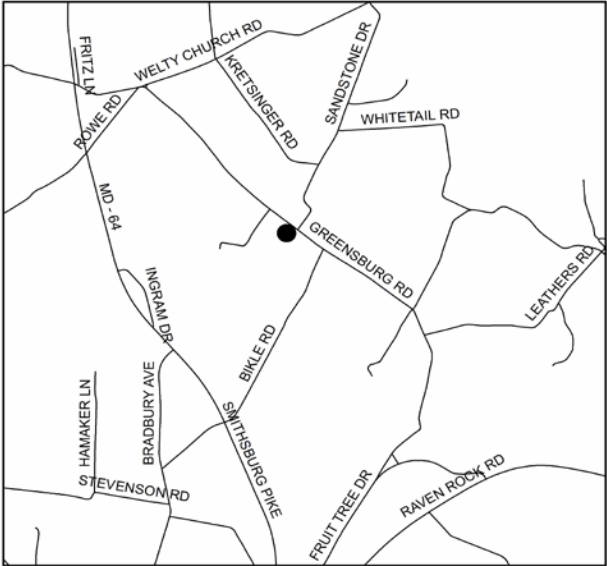
Project Title: Highway Eastern Section - Fuel Tank Replacement

Project Number: 1200

Account Number: EQP051

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will replace underground storage tanks at the Eastern Section Highway Maintenance Facility (13230 Greensburg Road, Smithsburg) that are experiencing corrosion problems. The anti-corrosion anodes that have been in place are not keeping pace with the corrosion and MDE has elevated their level of concern at this site.

Assumptions & Justifications:

Tanks are 20+ years old and present an increased liability for an environmental release. The project is to be done in conjunction with the Central Section Fuel Center project.

Through verbal discussions with MDE, the County has been advised that the desirable action is to remove the underground tanks and replace the system with above ground tanks. This action could lead to MDE closing the case, thus eliminating or at least minimizing the County's future liability.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Planning	50,000	50,000	0	0	0	0	0	0	0
Engineering/Design	75,000	75,000	0	0	0	0	0	0	0
Construction	675,000	425,000	250,000	0	0	0	0	0	0
Inspection	25,000	25,000	0	0	0	0	0	0	0
Total Cost	825,000	575,000	250,000	0	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	250,000	0	250,000	0	0	0	0	0	0
Capital Reserve - Highway	575,000	575,000	0	0	0	0	0	0	0
Total Funding	825,000	575,000	250,000	0	0	0	0	0	0

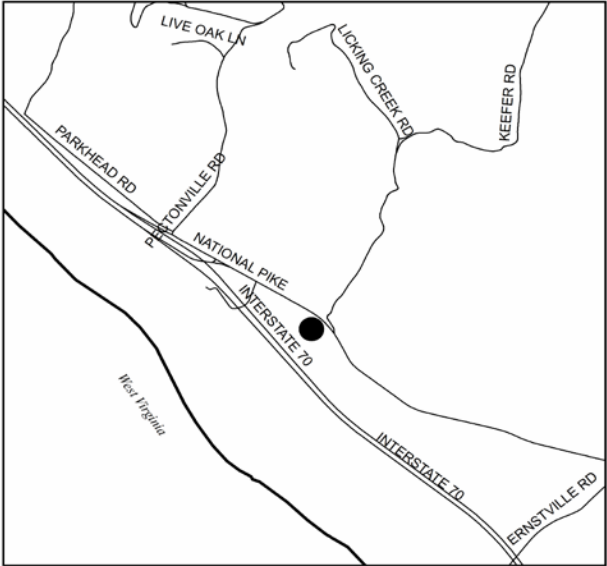
Project Title:HWY Western Section - Fuel Tank Replacement

Project Number:1234

Account Number:EQP056

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

The project will replace the existing diesel fuel center and add a gasoline fuel center at the western highway maintenance facility. The existing underground diesel storage tanks are old style steel tanks under impressed current cathodic protection. The addition of new gasoline tanks will provide 24 hour 7 days a week access for all county vehicles including Sheriff's Office and Board of Education vehicles operating in the western part of the County. The project includes modernizing the existing pump, addition of new pump, adding controlled access and integrated software systems to match existing fuel center systems used elsewhere in County government to provide connectivity to the central section highway shop software tracking system for billing and data collection. The project also includes a motorized entrance gate.

Assumptions & Justifications:

Tanks are 20+ years old and present an increased liability of an environmental release. This project will reduce operating expenses associated with fuel usage and vehicle maintenance.

This project will dramatically reduce the environmental threat of a leaking underground tank and pipes. This project will allow vehicles and employees operating in the western portion of the County, including law enforcement officers to remain in the area of service. By constructing this facility, these employees will not be taken out of their coverage area to refuel their vehicle.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	20,000	20,000	0	0	0	0	0	0	0
Construction	790,000	29,000	98,000	98,000	196,000	197,000	172,000	0	0
Inspection	51,000	51,000	0	0	0	0	0	0	0
Total Cost	861,000	100,000	98,000	98,000	196,000	197,000	172,000	0	0

Funding Sources:

Highway Fund	861,000	100,000	98,000	98,000	196,000	197,000	172,000	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	861,000	100,000	98,000	98,000	196,000	197,000	172,000	0	0

Solid Waste

Solid Waste
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget		Ten Year Capital Program				
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Project Costs										
Solid Waste										
188	Contingency - Solid Waste	376,000	289,000	87,000	0	0	0	0	0	0
189	Close Out Cap - Rubble Fill	2,092,000	0	0	0	0	0	100,000	1,992,000	0
190	Resh Road Gas Trench	1,070,000	50,000	1,020,000	0	0	0	0	0	0
191	40 West Truck Loading Facility Rehab & Upgrades	108,000	0	0	0	0	108,000	0	0	0
192	40 West Pavement Rehab and Bridge Repair	660,000	0	0	0	0	0	660,000	0	0
193	Seal Coating Closed Facilities	812,000	0	0	0	0	0	0	0	812,000
194	40 West Partial Capping	3,051,000	0	0	0	0	3,051,000	0	0	0
195	City County Upgrades	2,380,000	0	0	0	0	0	0	0	2,380,000
196	City County Gas Mitigation	678,000	0	122,000	556,000	0	0	0	0	0
197	Kaetzel Transfer Station Retaining Wall Replacement	180,000	0	0	0	180,000	0	0	0	0
198	SW Equip/Vehicle Replacement Program	280,000	0	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Solid Waste Total		11,687,000	339,000	1,255,000	582,000	207,000	3,186,000	788,000	2,020,000	3,310,000
Funding Sources										
General Fund		20,000	20,000	0	0	0	0	0	0	0
Solid Waste Fund		636,000	269,000	113,000	26,000	27,000	27,000	28,000	28,000	118,000
Self Supported Bond		11,031,000	50,000	1,142,000	556,000	180,000	3,159,000	760,000	1,992,000	3,192,000
		11,687,000	339,000	1,255,000	582,000	207,000	3,186,000	788,000	2,020,000	3,310,000

Project Title: Contingency - Solid Waste

Project Number: 97

Account Number: ADM009

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The purpose of this project is to maintain a budgetary reserve to provide for emergency or unanticipated expenditures.

Assumptions & Justifications:

Due to the inherent uncertainty in estimating capital project costs, it is the policy of the County to maintain project contingency. In the event that the capital contingency accounts have excess funds, the annual appropriation for that purpose may be modified to reflect the source of funds as determined through the budget process.

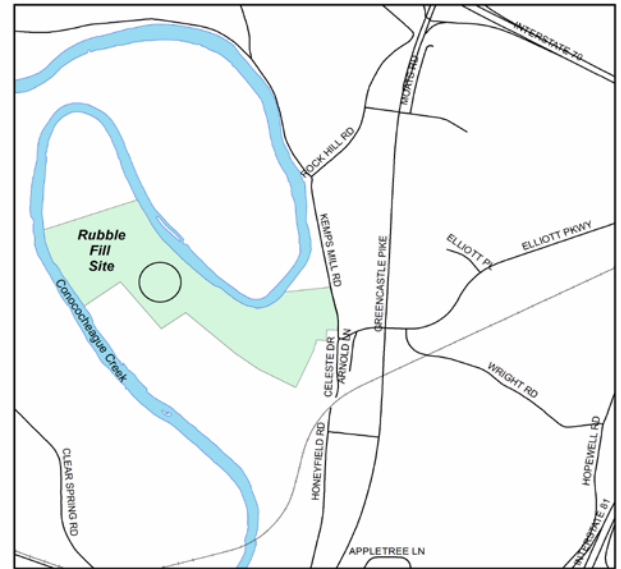
10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	289,000	289,000	0	0	0	0	0	0	0
Contingency	87,000	0	87,000	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total Cost	376,000	289,000	87,000	0	0	0	0	0	0

Funding Sources:

General Fund	20,000	20,000	0	0	0	0	0	0	0
Solid Waste Fund	356,000	269,000	87,000	0	0	0	0	0	0
Self Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	376,000	289,000	87,000	0	0	0	0	0	0

Project Title: Close Out Cap - Rubble Fill**Project Number:** 105**Account Number:** CAP003**Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

The purpose of the project is to design and construct a close out cap for the Rubble landfill.

Assumptions & Justifications:

At this point in time it is not known if a gas collection system will be required. If so, it will be a minimal passive system and should be considered included in the budget provided herein. Discussions with MDE staff indicate the facility permit can be routinely renewed, but the site kept inactive, as long as the facility is properly maintained. MDE stated they will not require capping to be installed prior to 2019 if no maintenance or compliance issues arise.

The work is required to comply with State regulations and the facility permit. Federal regulations do not apply to rubble fill sites.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	191,000	0	0	0	0	0	100,000	91,000	0
Construction	1,730,000	0	0	0	0	0	0	1,730,000	0
Inspection	171,000	0	0	0	0	0	0	171,000	0
Total Cost	2,092,000	0	0	0	0	0	100,000	1,992,000	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Solid Waste Fund	0	0	0	0	0	0	0	0	0
Self Supported Bond	2,092,000	0	0	0	0	0	100,000	1,992,000	0
Total Funding	2,092,000	0	0	0	0	0	100,000	1,992,000	0

Project Title: Resh Road Gas Trench**Project Number: 998****Account Number: LDI036****Projected Annual FTE's: 0****Projected Operating Costs: \$1,000****Description:**

The project will purchase land adjacent to Resh Road Landfill and construct a landfill gas cutoff trench, flare system, and monitoring wells.

Assumptions & Justifications:

Methane gas has been found along the property line and adjacent property. Regulations state that landfill gas and other contaminants shall be kept within the landfill's property. The purchase of the land and construction of the trench, flares, and wells will help us conform to the regulations.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	51,000	0	51,000	0	0	0	0	0	0
Land Acquisition	204,000	0	204,000	0	0	0	0	0	0
Construction	713,000	50,000	663,000	0	0	0	0	0	0
Inspection	102,000	0	102,000	0	0	0	0	0	0
Total Cost	1,070,000	50,000	1,020,000	0	0	0	0	0	0

Funding Sources:

Self Supported Bond	1,070,000	50,000	1,020,000	0	0	0	0	0	0
Total Funding	1,070,000	50,000	1,020,000	0	0	0	0	0	0

Project Title:40 West Truck Loading Facility Rehab & Upgrades

Project Number:1127

Account Number:BLD072

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

Rehabilitation and upgrades to the existing leachate pump station at 40 West Landfill to address concerns with aging infrastructure.

Assumptions & Justifications:

The infrastructure was constructed in 2000; the rehabilitation and upgrades will be per manufacturer's recommendations.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	108,000	0	0	0	0	108,000	0	0	0
Total Cost	108,000	0	0	0	0	108,000	0	0	0

Funding Sources:

Self Supported Bond	108,000	0	0	0	0	108,000	0	0	0
Capital Reserve - Solid Waste	0	0	0	0	0	0	0	0	0
Total Funding	108,000	0	0	0	0	108,000	0	0	0

Project Title: 40 West Pavement Rehab and Bridge Repair

Project Number: 1129

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project includes milling and paving roads and parking lots at the 40 West Landfill. This project will include any maintenance that may be required on the Earthcare Road Bridge.

Assumptions & Justifications:

Roads, parking lots and bridge will have been in service for 20+ years and will need rehabilitation.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	660,000	0	0	0	0	0	660,000	0	0
Total Cost	660,000	0	0	0	0	0	660,000	0	0

Funding Sources:

Self Supported Bond	660,000	0	0	0	0	0	660,000	0	0
Total Funding	660,000	0	0	0	0	0	660,000	0	0

Project Title: Seal Coating Closed Facilities

Project Number: 1138

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will seal coat Resh Road and City/County Landfill pavement.

Assumptions & Justifications:

Existing pavements at the closed facilities will be in need of pavement maintenance. The pavement needs to be maintained for maintenance vehicles and leachate hauling vehicles.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	812,000	0	0	0	0	0	0	0	812,000
Total Cost	812,000	0	0	0	0	0	0	0	812,000

Funding Sources:

Self Supported Bond	812,000	0	0	0	0	0	0	0	812,000
Total Funding	812,000	0	0	0	0	0	0	0	812,000

Project Title: 40 West Partial Capping

Project Number: 1139

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project provides for partial capping of the 40 West Landfill to reduce leachate generation.

Assumptions & Justifications:

Original project was divided into three projects over three years. Reducing the project from three projects to one reduces the overall cost of the construction, design and inspection. The capping material was changed to a rain cover which also reduced cost. This change was made since the Material Recovery Facility will be mining the trash from the existing cells. Only a temporary cap is needed.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	189,000	0	0	0	0	189,000	0	0	0
Construction	2,700,000	0	0	0	0	2,700,000	0	0	0
Inspection	162,000	0	0	0	0	162,000	0	0	0
Total Cost	3,051,000	0	0	0	0	3,051,000	0	0	0

Funding Sources:

Self Supported Bond	3,051,000	0	0	0	0	3,051,000	0	0	0
Total Funding	3,051,000	0	0	0	0	3,051,000	0	0	0

Project Title: City County Upgrades

Project Number: 1241

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will upgrade and maintain existing infrastructure at the City/County Landfill to ensure compliance with state and federal regulations. Upgrades may include but are not limited to, pumping systems maintenance, leachate tank maintenance or adding cover material.

Assumptions & Justifications:

The project will ensure that the County remains in compliance with Federal and State regulation.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	2,380,000	0	0	0	0	0	0	0	2,380,000
Total Cost	2,380,000	0	0	0	0	0	0	0	2,380,000

Funding Sources:

Self Supported Bond	2,380,000	0	0	0	0	0	0	0	2,380,000
Total Funding	2,380,000	0	0	0	0	0	0	0	2,380,000

Project Title: City County Gas Mitigation

Project Number: 1280

Account Number: LDI056

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

In 2015, a gas study was done to determine if there is, and the extent, of gas migration at the City/County Landfill. The study showed there is gas migration and recommends a gas mitigation system be constructed.

Assumptions & Justifications:

Based on regulations, the County is required to prevent any gas generated by a landfill from migrating off the landfill property to adjacent properties.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	678,000	0	122,000	556,000	0	0	0	0	0
Total Cost	678,000	0	122,000	556,000	0	0	0	0	0

Funding Sources:

Self Supported Bond	678,000	0	122,000	556,000	0	0	0	0	0
Total Funding	678,000	0	122,000	556,000	0	0	0	0	0

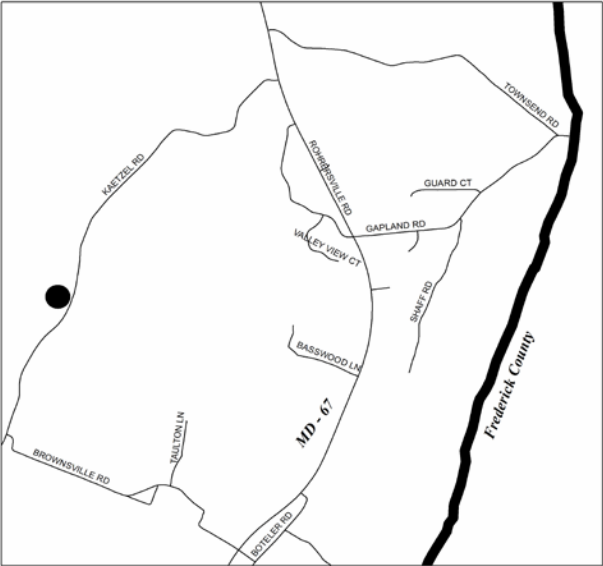
Project Title: Kaetzel Transfer Station Retaining Wall Replacement

Project Number: 1282

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will replace the retaining wall at the Kaetzel Road Transfer Station.

Assumptions & Justifications:

The retaining wall at the citizen drop off area at the Kaetzel Transfer Station is showing signs of wear and instability and is in need of replacement.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	180,000	0	0	0	180,000	0	0	0	0
Total Cost	180,000	0	0	0	180,000	0	0	0	0

Funding Sources:

Self Supported Bond	180,000	0	0	0	180,000	0	0	0	0
Total Funding	180,000	0	0	0	180,000	0	0	0	0

Project Title: SW Equip/Vehicle Replacement Program

Project Number: 1305

Account Number: VEH011

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace heavy equipment and vehicles that are beyond their useful life, which are typically the most costly to maintain. In line with the objectives of a well-managed organization, Solid Waste wants to establish an equipment and fleet replacement program that will, in time, set the vehicle and equipment replacement cycle in line with best practices, minimizing operating and maintenance costs.

Assumptions & Justifications:

The goal of the replacement program is to strike a balance for minimizing replacement costs versus maintenance and fuel costs. The program allows for the purchase of replacement vehicles and equipment used to provide services.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Vehicles	280,000	0	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Total Cost	280,000	0	26,000	26,000	27,000	27,000	28,000	28,000	118,000

Funding Sources:

Solid Waste Fund	280,000	0	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Total Funding	280,000	0	26,000	26,000	27,000	27,000	28,000	28,000	118,000

Transit

Transit
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		
Project Costs											
<u>Transit</u>											
200	Fixed Route Bus Replacement Program	4,370,600	484,600	0	2,035,000	0	826,000	0	1,025,000	0	
201	ADA Bus Replacement	998,000	208,000	0	75,000	87,000	105,000	0	0	523,000	
202	Vehicle Maintenance Program	3,556,543	392,543	291,000	296,000	302,000	308,000	314,000	319,000	1,334,000	
203	RouteMatch Fixed Route Module	310,000	0	310,000	0	0	0	0	0	0	
204	Transportation Development Plan	92,000	0	92,000	0	0	0	0	0	0	
Transit Total		9,327,143	1,085,143	693,000	2,406,000	389,000	1,239,000	314,000	1,344,000	1,857,000	
Funding Sources											
	General Fund	905,319	94,319	55,000	241,000	39,000	125,000	32,000	135,000	184,000	
	Capital Reserve - General	8,042	8,042	0	0	0	0	0	0	0	
	Capital Reserve - Transit	15,000	0	15,000	0	0	0	0	0	0	
	Federal Grant	7,469,239	876,239	553,000	1,925,000	312,000	991,000	251,000	1,075,000	1,486,000	
	State Grant	929,543	106,543	70,000	240,000	38,000	123,000	31,000	134,000	187,000	
		9,327,143	1,085,143	693,000	2,406,000	389,000	1,239,000	314,000	1,344,000	1,857,000	

Project Title: Fixed Route Bus Replacement Program

Project Number: 134

Account Number: VEH003

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

FY 18 - Replace nine (9) fixed-route transit buses, Units 701 - 709 which will become 716 - 724
FY 20 - Replace three (3) fixed-route transit buses, Units 710 -712 which will become 725 - 727
FY 22 - Replace three (3) fixed-route transit buses, Units 713 - 715 which will become 728 - 730
FY 27 - Replace nine (9) fixed-route transit buses, Units 716- 724 which will become 731 - 739
FY 28 - Replace three (3) fixed-route transit buses, Units 725 - 727 which will become 740 - 742
FY 30 - Replace three (3) fixed-route transit buses, Units 728 - 730 which will become 743 - 745
FY 35 - Replace nine (9) fixed-route transit buses, Units 731 - 739 which will become 746 - 754
FY 36 - Replace three (3) fixed-route transit buses, Units 740 - 742 which will become 755 - 757

Assumptions & Justifications:

All out-year procurements will be based on available grant funds from MTA and local match approval. Dollar figures shown are provided by MTA based on the current small/mid-size bus contract. The project funding assumes 80% Federal, 10% State, 10% Local.

Following the Maryland Transit Administration (MTA) useful life criteria, MTA provides grant funding to replace existing vehicles when they reach the end of the useful life criteria. Out years are projected based on the current useful life schedule.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	0	0	0	0	0	0	0	0	0
Vehicles	4,370,600	484,600	0	2,035,000	0	826,000	0	1,025,000	0
Total Cost	4,370,600	484,600	0	2,035,000	0	826,000	0	1,025,000	0

Funding Sources:

General Fund	436,500	48,500	0	203,000	0	82,000	0	103,000	0
Federal Grant	3,496,700	387,700	0	1,628,000	0	661,000	0	820,000	0
State Grant	437,400	48,400	0	204,000	0	83,000	0	102,000	0
Total Funding	4,370,600	484,600	0	2,035,000	0	826,000	0	1,025,000	0

Project Title: ADA Bus Replacement

Project Number: 138

Account Number: VEH005

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

FY 18 - Replace one (1) ADA Program bus (Unit 505) becomes 508
FY 19 - Replace one (1) ADA Program bus (Unit 506) becomes 509
FY 20 - Replace one (1) ADA Program bus (Unit 507) becomes 510
FY 23 - Replace one (1) ADA Program bus (Unit 508) becomes 511
FY 24 - Replace one (1) ADA Program bus (Unit 509) becomes 512
FY 25 - Replace one (1) ADA Program bus (Unit 510) becomes 513
FY 28 - Replace one (1) ADA Program bus (Unit 511) becomes 514
FY 29 - Replace one (1) ADA Program bus (Unit 512) becomes 515
FY 30 - Replace one (1) ADA Program bus (Unit 513) becomes 516
FY 33 - Replace one (1) ADA Program bus (Unit 514) becomes 517
FY 34 - Replace one (1) ADA Program bus (Unit 515) becomes 518
FY 35 - Replace one (1) ADA Program bus (Unit 516) becomes 519

Assumptions & Justifications:

All out-year procurements will be based on available grant funds from MTA and local match approval. Dollar figures shown are provided by MTA based on the current small/mid-size bus contract. The project funding assumes 80% Federal, 10% State, 10% Local.

Following the Maryland Transit Administration (MTA) useful life criteria, MTA provides grant funding to replace existing vehicles when they reach the end of the useful life criteria. Out years are projected based on the current useful life schedule.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	998,000	208,000	0	75,000	87,000	105,000	0	0	523,000
Total Cost	998,000	208,000	0	75,000	87,000	105,000	0	0	523,000

Funding Sources:

General Fund	91,100	11,100	0	8,000	9,000	11,000	0	0	52,000
Capital Reserve - General	6,000	6,000	0	0	0	0	0	0	0
Federal Grant	802,100	170,100	0	60,000	70,000	84,000	0	0	418,000
State Grant	98,800	20,800	0	7,000	8,000	10,000	0	0	53,000
Total Funding	998,000	208,000	0	75,000	87,000	105,000	0	0	523,000

Project Title: Vehicle Maintenance Program

Project Number: 1083

Account Number: EQP021

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will provide for preventative maintenance and repairs of transit vehicles and facilities.

Assumptions & Justifications:

The project assumes funding 80% Federal, 10% State, 10% Local and is contingent on grant funding. Federal Transit Administration (FTA) determinations now allow for expenses such as tools, equipment, repair materials, and preventative care for the fleet of transit vehicles and transit facilities to be capitalized.

Maintaining federally funded assets is a priority to the Federal Transit Administration (FTA), Maryland Transit Administration (MTA) and Washington County Transit (WCT).

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	3,556,543	392,543	291,000	296,000	302,000	308,000	314,000	319,000	1,334,000
Total Cost	3,556,543	392,543	291,000	296,000	302,000	308,000	314,000	319,000	1,334,000

Funding Sources:

General Fund	351,719	34,719	29,000	30,000	30,000	32,000	32,000	32,000	132,000
Capital Reserve - General	2,042	2,042	0	0	0	0	0	0	0
Federal Grant	2,850,439	318,439	233,000	237,000	242,000	246,000	251,000	255,000	1,068,000
State Grant	352,343	37,343	29,000	29,000	30,000	30,000	31,000	32,000	134,000
Total Funding	3,556,543	392,543	291,000	296,000	302,000	308,000	314,000	319,000	1,334,000

Project Title: RouteMatch Fixed Route Module

Project Number: 1291

Account Number: EQP061

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The RouteMatch Fixed Route module is software for our general transit operations that will establish a fixed route database and reports on schedule adherence. It will also alert dispatchers to routes that are running behind or to provide pickup status to riders. The software reports on variances to scheduled times, passenger counts and National Transit Database reporting.

Assumptions & Justifications:

Project funding assumes 80% Federal, 10% State and 10% Local and is contingent on grant funding.

Dispatch software programming has proven itself as an efficient mode of aligning transportation trips for our Paratransit & JOBS programs. The next step is to improve our Fixed Route operations and on-time performance with this software.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Hardware/Software	310,000	0	310,000	0	0	0	0	0	0
Total Cost	310,000	0	310,000	0	0	0	0	0	0

Funding Sources:

General Fund	26,000	0	26,000	0	0	0	0	0	0
Capital Reserve - Transit	5,000	0	5,000	0	0	0	0	0	0
Federal Grant	248,000	0	248,000	0	0	0	0	0	0
State Grant	31,000	0	31,000	0	0	0	0	0	0
Total Funding	310,000	0	310,000	0	0	0	0	0	0

Project Title: **Transportation Development Plan**

Project Number: **1308**

Account Number: **STY016**

Projected Annual FTE's: **0**

Projected Operating Costs: **\$0**

Description:

The Transportation Development Plan (TDP) is a 5-year plan that provides a short-range vision of public transportation in Washington County and help guide transportation decisions over the next five years.

Assumptions & Justifications:

The project assumes funding 80% Federal, 10% State, 10% Local and is contingent on grant funding.

The Maryland Transit Administration (MTA) requires the Locally Operated Transit Systems (LOTS) in Maryland to conduct a Transportation Development Plan (TDP) every five years. The LOTS then use their TDPs as a basis for preparing their Annual Transportation Plan (ATP) to obtain grant funding.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Other	92,000	0	92,000	0	0	0	0	0	0
Total Cost	92,000	0	92,000	0	0	0	0	0	0

Funding Sources:

Capital Reserve - Transit	10,000	0	10,000	0	0	0	0	0	0
Federal Grant	72,000	0	72,000	0	0	0	0	0	0
State Grant	10,000	0	10,000	0	0	0	0	0	0
Total Funding	92,000	0	92,000	0	0	0	0	0	0

Water Quality

*Water Quality
Capital Improvement Ten Year Summary
Fiscal Year 2017 - 2026*

Page	Project	Total	Prior Appr.	Budget	Ten Year Capital Program					
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future
Project Costs										
Water Quality										
206	General Building Improvements	1,387,000	101,000	0	0	530,000	605,000	25,000	25,000	101,000
207	Laboratory Rehab of Ventilation System	260,000	0	0	260,000	0	0	0	0	0
208	WQ Equip/Vehicle Replacement Program	1,216,706	193,706	94,000	96,000	98,000	99,000	102,000	103,000	431,000
209	Smithsburg WwTP - ENR Upgrades	12,488,387	1,495,387	0	0	0	5,493,000	5,500,000	0	0
210	Pump Station Upgrades - Various Stations	1,924,683	514,683	510,000	0	0	0	0	0	900,000
211	Conococheague WwTP - ENR Upgrades	33,062,910	27,423,910	5,639,000	0	0	0	0	0	0
212	Replace PO 2 Pump Station	1,375,000	0	0	0	0	1,375,000	0	0	0
213	Potomac Edison Pump Station & Force Main	1,574,000	0	0	0	0	1,574,000	0	0	0
214	Antietam WwTP - ENR Upgrades	2,992,000	622,000	0	0	0	0	0	0	2,370,000
215	New Roof at Conococheague WwTP	256,000	128,000	128,000	0	0	0	0	0	0
216	General WwTP Improvements	3,344,000	0	0	0	0	0	0	1,004,000	2,340,000
217	Collection System Rehabilitation Project	3,538,000	228,000	0	780,000	795,000	0	0	280,000	1,455,000
218	Sandy Hook WwTP	784,000	0	0	0	0	0	0	784,000	0
219	Heavy Sewer EQP and VEH Replacement	823,000	227,000	88,000	89,000	96,000	75,000	39,000	40,000	169,000
220	Replace Grinder Pumps	678,000	26,000	26,000	26,000	27,000	48,000	84,000	85,000	356,000
221	Capacity Management Project	1,173,000	800,000	373,000	0	0	0	0	0	0
222	WQ Water Meter Replacement	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000
223	General WTP Improvements	942,000	106,000	0	0	0	0	246,000	0	590,000
224	Sharpsburg Water Treatment Plant	808,000	0	0	208,000	0	0	0	0	600,000
225	Mt Aetna Water System Improvements	744,000	0	0	0	133,000	0	611,000	0	0
226	Highfield/Sharpsburg Water Storage Tank	336,000	0	0	0	0	0	0	336,000	0
227	WQ Main Replacement	3,651,000	0	0	0	0	0	0	0	3,651,000
Water Quality Total		73,930,871	31,967,871	6,960,000	1,563,000	1,712,000	9,302,000	6,640,000	2,689,000	13,097,000
Funding Sources										
	General Fund	451,900	451,900	0	0	0	0	0	0	0
	Utility Admin Fund	1,468,706	294,706	94,000	96,000	98,000	99,000	127,000	128,000	532,000
	Water Fund	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000
	Sewer Fund	3,986,593	2,738,593	114,000	115,000	123,000	123,000	123,000	125,000	525,000
	Tax Supported Bond	587,700	587,700	0	0	0	0	0	0	0
	Self Supported Bond	42,542,187	11,324,187	2,883,000	1,248,000	1,433,000	5,187,000	6,307,000	2,404,000	11,756,000
	Capital Reserve - Sewer	373,000	0	373,000	0	0	0	0	0	0
	State Grant	21,627,600	16,468,600	3,394,000	0	25,000	1,540,000	50,000	0	150,000
	Contributions	2,320,000	0	0	0	0	2,320,000	0	0	0
		73,930,871	31,967,871	6,960,000	1,563,000	1,712,000	9,302,000	6,640,000	2,689,000	13,097,000

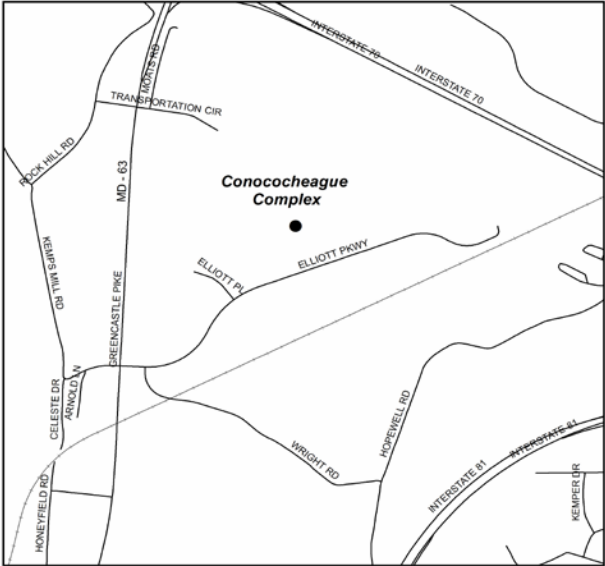
Project Title: General Building Improvements

Project Number: 113

Account Number: BLD073

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will provide for general building improvements to the administration office building and maintenance building on the Conococheague Complex.

Assumptions & Justifications:

The buildings are in need of improvements due to normal aging and recommendations by the manufacturer of the building.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	1,387,000	101,000	0	0	530,000	605,000	25,000	25,000	101,000
Total Cost	1,387,000	101,000	0	0	530,000	605,000	25,000	25,000	101,000

Funding Sources:

Utility Admin Fund	252,000	101,000	0	0	0	0	25,000	25,000	101,000
Self Supported Bond	1,135,000	0	0	0	530,000	605,000	0	0	0
Total Funding	1,387,000	101,000	0	0	530,000	605,000	25,000	25,000	101,000

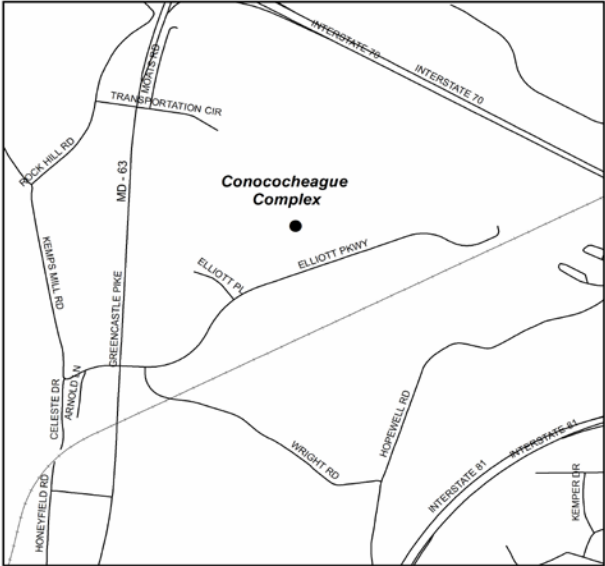
Project Title: Laboratory Rehab of Ventilation System

Project Number: 1162

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will upgrade the existing ventilation system within the laboratory.

Assumptions & Justifications:

The existing ventilation system will reach its useful life and will need to be replaced.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	260,000	0	0	260,000	0	0	0	0	0
Total Cost	260,000	0	0	260,000	0	0	0	0	0

Funding Sources:

Self Supported Bond	260,000	0	0	260,000	0	0	0	0	0
Total Funding	260,000	0	0	260,000	0	0	0	0	0

Project Title: WQ Equip/Vehicle Replacement Program

Project Number: 1175

Account Number: VEH007

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace heavy equipment and vehicles that are beyond their useful life, which are typically the most costly to maintain. In line with the objectives of a well managed organization, Water Quality wants to establish an equipment and fleet replacement program that will, in time, set the vehicle and equipment replacement cycle in line with best practices, minimizing operating and maintenance costs.

Assumptions & Justifications:

The goal of the replacement program is to strike a balance for minimizing replacement costs versus maintenance and fuel costs. The program allows for the purchase of replacement vehicles and equipment used to provide services within the Water Quality service areas.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	322,000	42,000	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Vehicles	894,706	151,706	68,000	70,000	71,000	72,000	74,000	75,000	313,000
Total Cost	1,216,706	193,706	94,000	96,000	98,000	99,000	102,000	103,000	431,000

Funding Sources:

Utility Admin Fund	1,216,706	193,706	94,000	96,000	98,000	99,000	102,000	103,000	431,000
Water Fund	0	0	0	0	0	0	0	0	0
Sewer Fund	0	0	0	0	0	0	0	0	0
Self Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	1,216,706	193,706	94,000	96,000	98,000	99,000	102,000	103,000	431,000

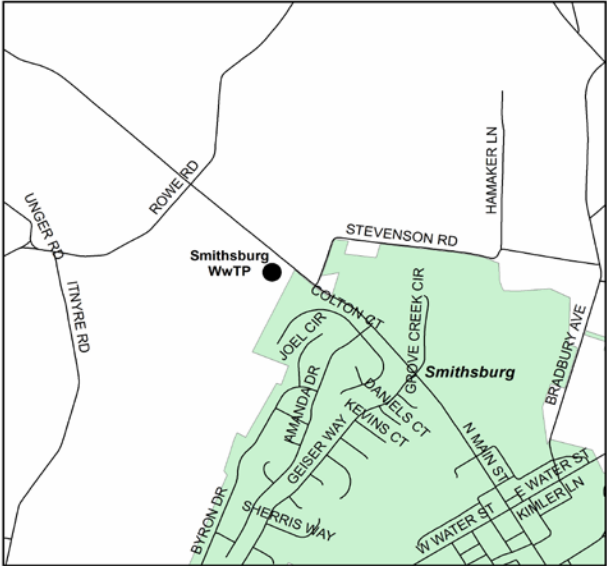
Project Title: Smithsburg WwTP - ENR Upgrades

Project Number: 115

Account Number: TRP021

Projected Annual FTE's: 0

Projected Operating Costs: \$10,000



Description:

The project will upgrade the facility to address Maryland Department of the Environment (MDE) strategy for Enhanced Nutrient Removal (ENR) and expand capacity to address growth needs of the area.

Assumptions & Justifications:

Pending grant funding approval.

The upgrade is required to meet MDE's ENR strategy and to prepare for anticipated development in the area.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	435,470	435,470	0	0	0	0	0	0	0
Construction	12,052,917	1,059,917	0	0	0	5,493,000	5,500,000	0	0
Total Cost	12,488,387	1,495,387	0	0	0	5,493,000	5,500,000	0	0

Funding Sources:

Sewer Fund	1,495,387	1,495,387	0	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Self Supported Bond	9,863,000	0	0	0	0	4,363,000	5,500,000	0	0
Excise Tax - Other	0	0	0	0	0	0	0	0	0
State Grant	1,130,000	0	0	0	0	1,130,000	0	0	0
Total Funding	12,488,387	1,495,387	0	0	0	5,493,000	5,500,000	0	0

Project Title: Pump Station Upgrades - Various Stations

Project Number: 117

Account Number: LIN034

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project includes electrical and equipment upgrades.

Assumptions & Justifications:

Upgrades are required to address aging equipment issues.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	1,924,683	514,683	510,000	0	0	0	0	0	900,000
Total Cost	1,924,683	514,683	510,000	0	0	0	0	0	900,000

Funding Sources:

Sewer Fund	4,683	4,683	0	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Self Supported Bond	1,920,000	510,000	510,000	0	0	0	0	0	900,000
Total Funding	1,924,683	514,683	510,000	0	0	0	0	0	900,000

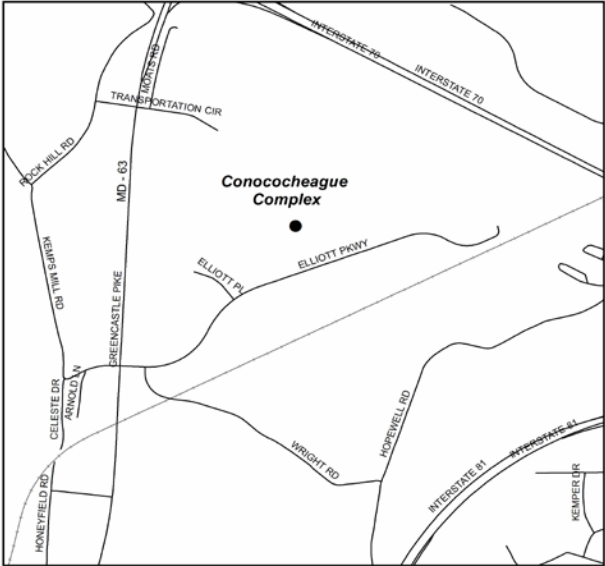
Project Title: Conococheague WwTP - ENR Upgrades

Project Number: 118

Account Number: TRP018

Projected Annual FTE's: 0

Projected Operating Costs: \$349,000



Description:

This project will plan, design, and construct upgrades required to meet Maryland Department of the Environment (MDE) Enhanced Nutrient Removal (ENR) strategy.

Assumptions & Justifications:

Pending grant funding approval.

The upgrade is required to meet MDE's ENR Strategy.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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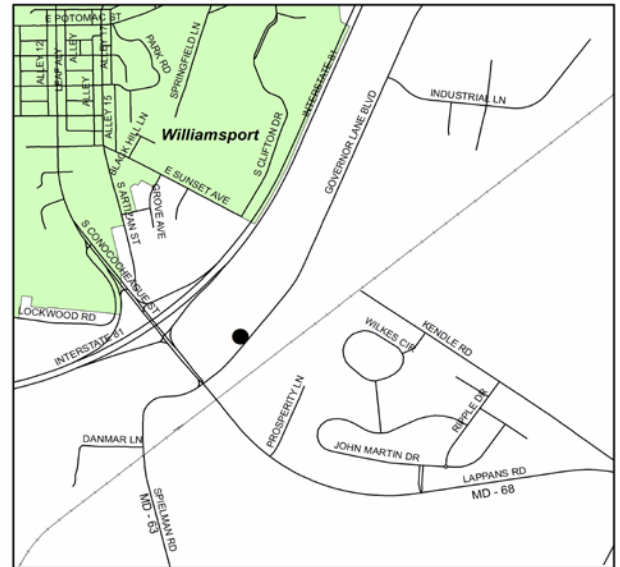
Project Costs:

Engineering/Design	757,410	757,410	0	0	0	0	0	0	0
Construction	32,305,500	26,666,500	5,639,000	0	0	0	0	0	0
Total Cost	33,062,910	27,423,910	5,639,000	0	0	0	0	0	0

Funding Sources:

General Fund	451,900	451,900	0	0	0	0	0	0	0
Sewer Fund	49,523	49,523	0	0	0	0	0	0	0
Tax Supported Bond	587,700	587,700	0	0	0	0	0	0	0
Self Supported Bond	12,111,187	9,866,187	2,245,000	0	0	0	0	0	0
Excise Tax - Other	0	0	0	0	0	0	0	0	0
State Grant	19,862,600	16,468,600	3,394,000	0	0	0	0	0	0
Total Funding	33,062,910	27,423,910	5,639,000	0	0	0	0	0	0

Projected Operating Costs: \$0



The current pump station will be unable to handle future sewage flow attributed to development in the service area. Therefore, the pump station will need to be replaced at the developers expense to handle the projected flows.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Construction	1,375,000	0	0	0	0	1,375,000	0	0	0
Total Cost	1,375,000	0	0	0	0	1,375,000	0	0	0

Self Supported Bond	102,000	0	0	0	0	102,000	0	0	0
Contributions	1,273,000	0	0	0	0	1,273,000	0	0	0
Total Funding	1,375,000	0	0	0	0	1,375,000	0	0	0

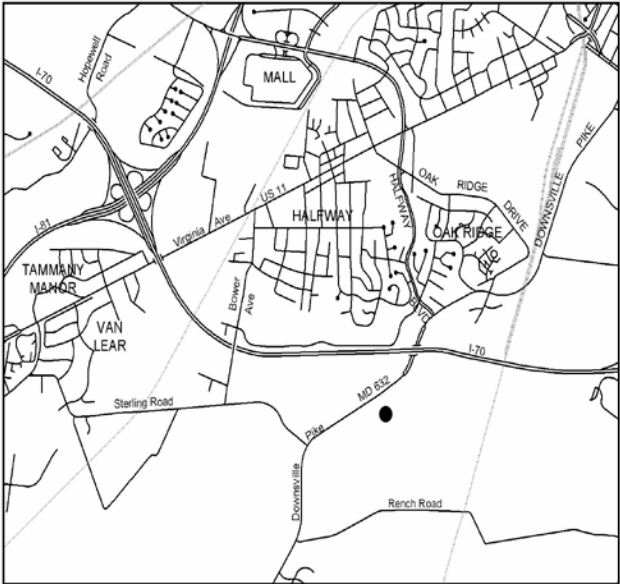
Project Title: Potomac Edison Pump Station & Force Main

Project Number: 121

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will provide for the relocation of the existing force main and the Potomac Edison pump station.

Assumptions & Justifications:

Pending grant funding approval and developer contributions.

Relocation of the Potomac Edison pump station and force main is required to facilitate service of the properties in the revised Urban Growth Area Boundary.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	1,574,000	0	0	0	0	1,574,000	0	0	0
Total Cost	1,574,000	0	0	0	0	1,574,000	0	0	0

Funding Sources:

Self Supported Bond	117,000	0	0	0	0	117,000	0	0	0
State Grant	410,000	0	0	0	0	410,000	0	0	0
Contributions	1,047,000	0	0	0	0	1,047,000	0	0	0
Total Funding	1,574,000	0	0	0	0	1,574,000	0	0	0

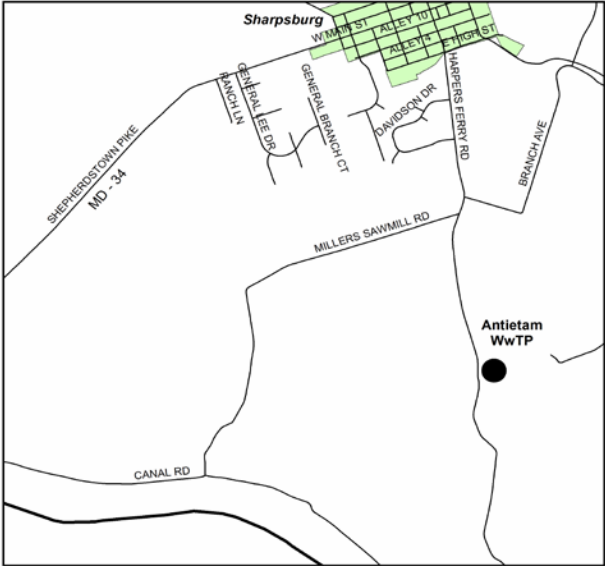
Project Title: Antietam WwTP - ENR Upgrades

Project Number: 122

Account Number: TRP017

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will upgrade the facility to meet current and future EPA and MDE permit requirements.

Assumptions & Justifications:

The project will upgrade the facility to address deteriorating conditions of the infrastructure due to aging and meet MDE's ENR Strategy requirements.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	128,000	70,000	0	0	0	0	0	0	58,000
Construction	2,864,000	552,000	0	0	0	0	0	0	2,312,000
Total Cost	2,992,000	622,000	0	0	0	0	0	0	2,370,000

Funding Sources:

Sewer Fund	112,000	112,000	0	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Self Supported Bond	2,880,000	510,000	0	0	0	0	0	0	2,370,000
Excise Tax - Other	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	2,992,000	622,000	0	0	0	0	0	0	2,370,000

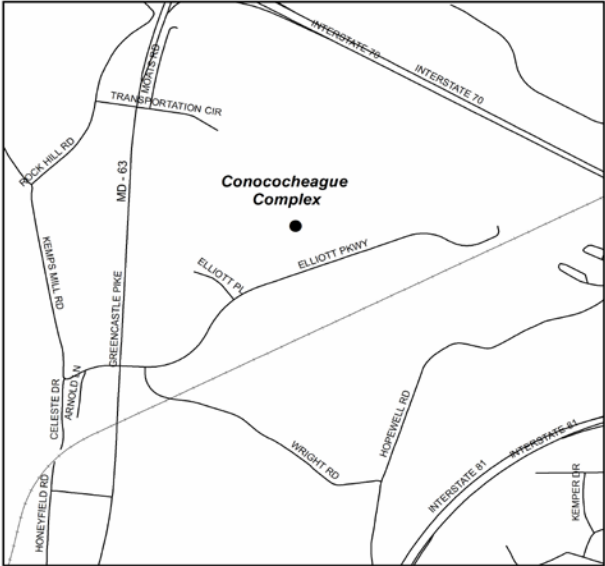
Project Title: New Roof at Conococheague WwTP

Project Number: 1077

Account Number: BLD090

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project involves the replacement of operational building roofs at the Conococheague Wastewater Treatment Plant.

Assumptions & Justifications:

Inspection of the roofs has shown deterioration due to age. Reports have indicated that the roofs will need to be replaced and patching will only be a temporary fix until funds are available for full replacement.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	256,000	128,000	128,000	0	0	0	0	0	0
Total Cost	256,000	128,000	128,000	0	0	0	0	0	0

Funding Sources:

Self Supported Bond	256,000	128,000	128,000	0	0	0	0	0	0
Total Funding	256,000	128,000	128,000	0	0	0	0	0	0

Project Title: General WwTP Improvements

Project Number: 1078

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project involves general upgrades including electrical systems and equipment as required to address aging infrastructure and regulatory requirements.

Assumptions & Justifications:

Upgrades are required to address aging infrastructure and equipment. Some of these upgrades may not have been accomplished under previous projects due to grant funding restrictions.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	116,000	0	0	0	0	0	0	0	116,000
Construction	3,228,000	0	0	0	0	0	0	1,004,000	2,224,000
Total Cost	3,344,000	0	0	0	0	0	0	1,004,000	2,340,000

Funding Sources:

Self Supported Bond	3,344,000	0	0	0	0	0	0	1,004,000	2,340,000
Total Funding	3,344,000	0	0	0	0	0	0	1,004,000	2,340,000

Project Title: Collection System Rehabilitation Project

Project Number: 1159

Account Number: LIN040

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will rehabilitate existing sewer lines.

Assumptions & Justifications:

The Collection Systems in the County are aging and showing normal deterioration which requires repairs, slip lining or replacement to reduce the amount of Inflow and Infiltration (I&I) entering the system and to reduce the potential of line breaks and sewer overflows. I&I impacts the budget by increasing the amount of water requiring treatment without increasing the revenue to pay for this expense. Sewer line breaks and sewer overflows cause environmental issues.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	3,538,000	228,000	0	780,000	795,000	0	0	280,000	1,455,000
Total Cost	3,538,000	228,000	0	780,000	795,000	0	0	280,000	1,455,000

Funding Sources:

Sewer Fund	24,000	24,000	0	0	0	0	0	0	0
Self Supported Bond	3,514,000	204,000	0	780,000	795,000	0	0	280,000	1,455,000
Total Funding	3,538,000	228,000	0	780,000	795,000	0	0	280,000	1,455,000

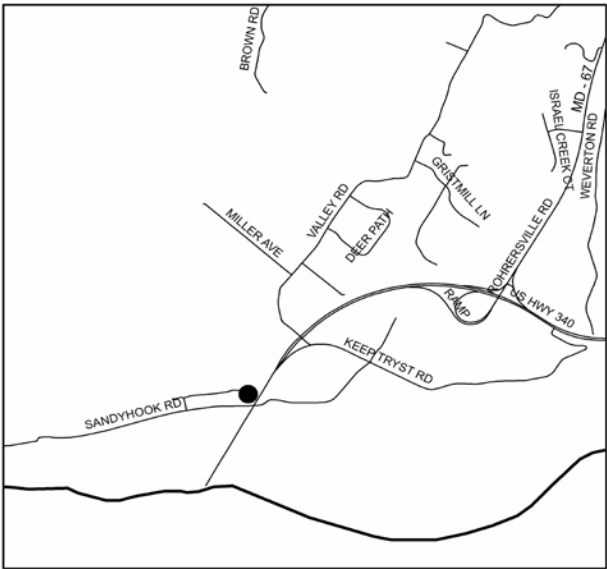
Project Title: Sandy Hook WwTP

Project Number: 1172

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will provide for the treatment plant upgrade.

Assumptions & Justifications:

Aging equipment will be reaching the manufacturer's useful life and will require upgrades or repairs.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Engineering/Design	112,000	0	0	0	0	0	0	112,000	0
Construction	672,000	0	0	0	0	0	0	672,000	0
Total Cost	784,000	0	0	0	0	0	0	784,000	0

Funding Sources:

Self Supported Bond	784,000	0	0	0	0	0	0	784,000	0
Total Funding	784,000	0	0	0	0	0	0	784,000	0

Project Title: Heavy Sewer EQP and VEH Replacement

Project Number: 1215

Account Number: VEH010

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace heavy equipment and vehicles that are beyond their useful life, which are typically the most costly to maintain. In line with the objectives of a well-managed organization, Water Quality strives to establish an equipment and fleet replacement program that will, in time, set the vehicle and equipment replacement cycle in line with best practices, minimizing operating and maintenance costs.

Assumptions & Justifications:

The goal of the replacement program is to strike a balance for minimizing replacement costs versus maintenance and fuel costs. The program allows for the purchase of replacement vehicles and equipment used to provide services within the Water Quality service areas.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Equipment/Furniture	122,000	81,000	3,000	3,000	3,000	4,000	4,000	4,000	20,000
Vehicles	701,000	146,000	85,000	86,000	93,000	71,000	35,000	36,000	149,000
Total Cost	823,000	227,000	88,000	89,000	96,000	75,000	39,000	40,000	169,000

Funding Sources:

Sewer Fund	823,000	227,000	88,000	89,000	96,000	75,000	39,000	40,000	169,000
Total Funding	823,000	227,000	88,000	89,000	96,000	75,000	39,000	40,000	169,000

Project Title: Replace Grinder Pumps

Project Number: 1251

Account Number: EQP055

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will provide the replacement of core units of aging infrastructure and will extend the life of the system.

Assumptions & Justifications:

Some of the existing grinder pumps have reached their life expectancy and need to be replaced.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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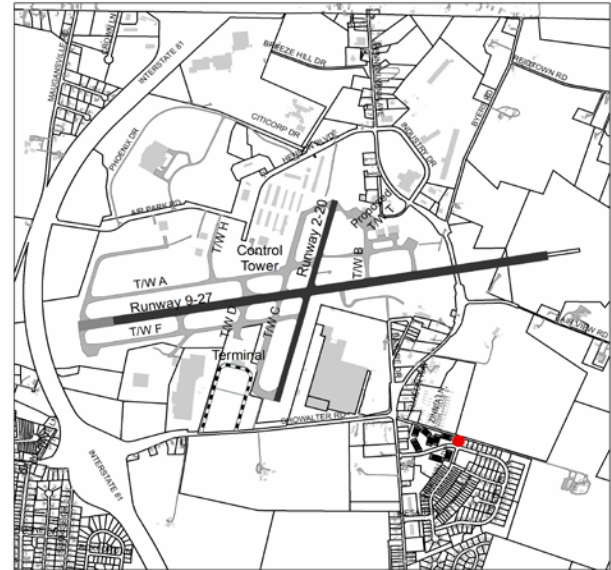
Project Costs:

Equipment/Furniture	678,000	26,000	26,000	26,000	27,000	48,000	84,000	85,000	356,000
Total Cost	678,000	26,000	26,000	26,000	27,000	48,000	84,000	85,000	356,000

Funding Sources:

Sewer Fund	678,000	26,000	26,000	26,000	27,000	48,000	84,000	85,000	356,000
Capital Reserve - Sewer	0	0	0	0	0	0	0	0	0
Total Funding	678,000	26,000	26,000	26,000	27,000	48,000	84,000	85,000	356,000

Projected Operating Costs: \$0



Project Title: WQ Water Meter Replacement

Project Number: 130

Account Number: LIN004

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace aging water meters in various water distribution systems.

Assumptions & Justifications:

Replacement is needed due to the age and deterioration of the water meters.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000
Total Cost	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000

Funding Sources:

Water Fund	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000
Self Supported Bond	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	573,185	102,185	102,000	104,000	33,000	33,000	33,000	32,000	134,000

Project Title: General WTP Improvements

Project Number: 132

Account Number: TRP025

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project involves general upgrades to water treatment plants including electrical systems and equipment.

Assumptions & Justifications:

Upgrades are required to address aging equipment, maintain a high level of water quality, and address Federal and State regulations.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	942,000	106,000	0	0	0	0	246,000	0	590,000
Total Cost	942,000	106,000	0	0	0	0	246,000	0	590,000

Funding Sources:

Water Fund	0	0	0	0	0	0	0	0	0
Self Supported Bond	942,000	106,000	0	0	0	0	246,000	0	590,000
Total Funding	942,000	106,000	0	0	0	0	246,000	0	590,000

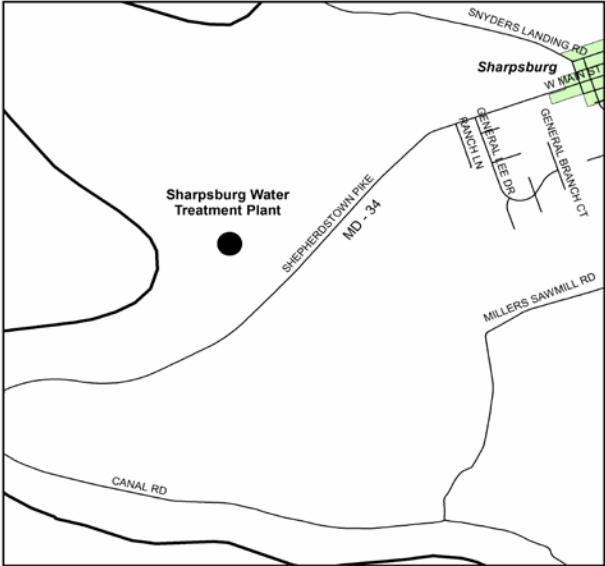
Project Title: Sharpsburg Water Treatment Plant

Project Number: 1161

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project includes Sharpsburg Water Treatment Plant upgrades required by Federal and State regulations.

Assumptions & Justifications:

Regulations continue to become more restrictive, thus requiring the plant to be upgraded to insure compliance with Drinking Water Regulations.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	808,000	0	0	208,000	0	0	0	0	600,000
Total Cost	808,000	0	0	208,000	0	0	0	0	600,000

Funding Sources:

Self Supported Bond	808,000	0	0	208,000	0	0	0	0	600,000
Total Funding	808,000	0	0	208,000	0	0	0	0	600,000

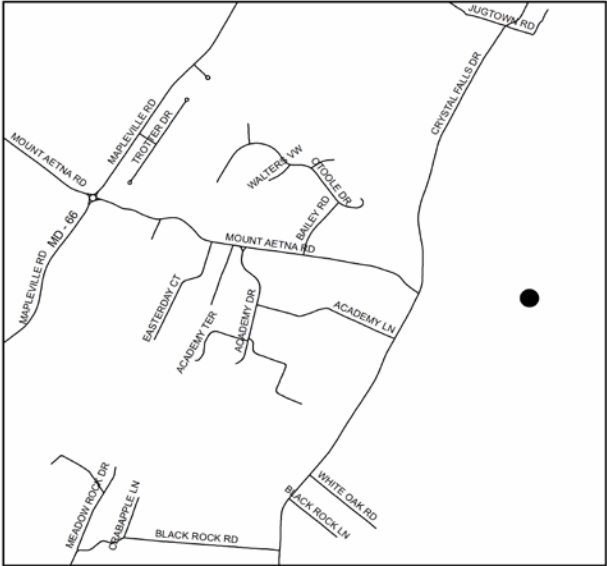
Project Title: Mt Aetna Water System Improvements

Project Number: 1169

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project includes general plant and system improvements.

Assumptions & Justifications:

Will seek grant funding from MDE

The project includes the replacement and upgrade of aging infrastructure and manufacturer recommendations.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	744,000	0	0	0	133,000	0	611,000	0	0
Total Cost	744,000	0	0	0	133,000	0	611,000	0	0

Funding Sources:

Self Supported Bond	669,000	0	0	0	108,000	0	561,000	0	0
State Grant	75,000	0	0	0	25,000	0	50,000	0	0
Total Funding	744,000	0	0	0	133,000	0	611,000	0	0

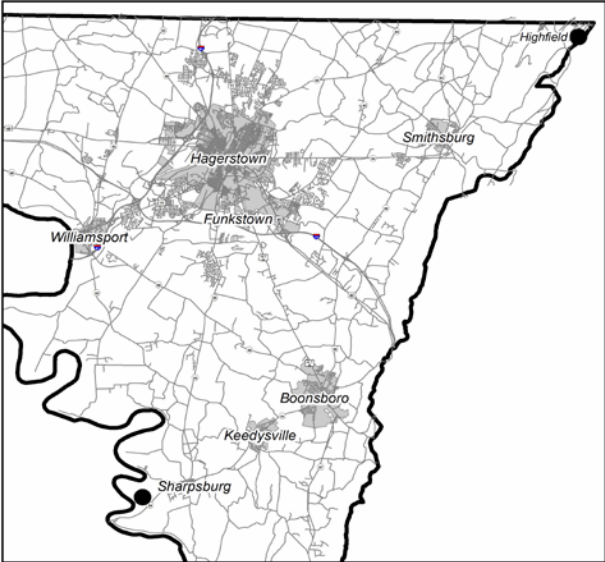
Project Title: Highfield/Sharpsburg Water Storage Tank

Project Number: 1170

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project includes rehabilitation of the existing water storage tanks.

Assumptions & Justifications:

Rehabilitation of the tank structures is required as they age to extend their life expectancy and for the continuation of operation.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	336,000	0	0	0	0	0	0	336,000	0
Total Cost	336,000	0	0	0	0	0	0	336,000	0

Funding Sources:

Self Supported Bond	336,000	0	0	0	0	0	0	336,000	0
Total Funding	336,000	0	0	0	0	0	0	336,000	0

Project Title: WQ Main Replacement

Project Number: 1307

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace aging water mains in various water distribution systems.

Assumptions & Justifications:

Pending grant funding approval.

Replacement is needed due to the age and deterioration of the water mains.

10 year plan	Total	Prior Years	2017	2018	2019	2020	2021	2022	Future
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Project Costs:

Construction	3,651,000	0	0	0	0	0	0	0	3,651,000
Total Cost	3,651,000	0	0	0	0	0	0	0	3,651,000

Funding Sources:

Water Fund	0	0	0	0	0	0	0	0	0
Self Supported Bond	3,501,000	0	0	0	0	0	0	0	3,501,000
State Grant	150,000	0	0	0	0	0	0	0	150,000
Total Funding	3,651,000	0	0	0	0	0	0	0	3,651,000

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