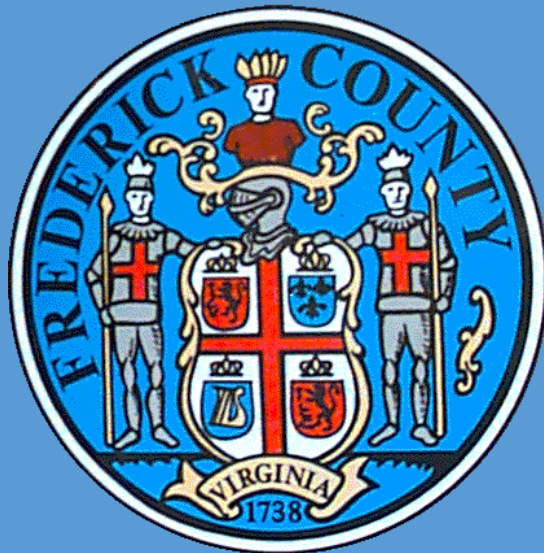


# FREDERICK COUNTY, VIRGINIA 2019-2024 CAPITAL IMPROVEMENT PLAN



Adopted by the  
Frederick County  
Board of Supervisors  
March 13, 2019

Recommended by the  
Frederick County  
Planning Commission  
January 16, 2019

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**CAPITAL IMPROVEMENTS PLAN  
FREDERICK COUNTY  
FY 2019-2024**

**INTRODUCTION**

Section §15.2-2239 of the Code of Virginia assigns the responsibility for preparation of plans for capital outlays to the local Planning Commissions. The Capital Improvements Plan (CIP) consists of a schedule for major capital expenditures for the County for the ensuing five years.

The CIP is updated annually. Projects are removed from the plans as they are completed or as priorities change. The plan is intended to assist the Board of Supervisors in preparation of the County budget. In addition to determining priorities for capital expenditures, the County must also ensure that projects contained within the CIP conform to the Comprehensive Plan. Specifically, the projects are reviewed with considerations regarding health, safety, and the general welfare of the public, and the policies of the Comprehensive Plan. Once the CIP is adopted, it becomes a component of the 2035 Comprehensive Plan and provides a link between the documents and potential proffered contributions made with future rezoning projects.

The inclusion of projects to the CIP is in no way an indication that Frederick County will be undertaking these projects. The CIP is strictly advisory; it is intended for use as a capital facilities planning document, not for requesting funding allocations. Once adopted, project priorities may change throughout the year based on changing circumstances. It is also possible that particular projects may not be funded during the year that is indicated in the CIP. The status of any project becomes increasingly uncertain the further in the future it is projected.

## **PROJECT RECOMMENDATIONS**

### **Frederick County Public Schools**

Frederick County Public Schools continue to commence and complete capital projects that have been priorities from previous years. The top capital improvement priority for the Schools is the construction of the New High School. The Armel Elementary School addition and renovation is the second highest priority, followed by administrative office renovation. Other schools included for renovation and addition projects include James Wood High School, Sherando High School and Apple Pie Ridge Elementary.

### **Parks & Recreation**

The top capital improvement priority for Parks and Recreation is the Abrams Creek Greenway Trail. This facility would provide recreational opportunities for residents of this corridor along with the surrounding communities and was emphasized in the Senseny/Eastern Frederick Urban Areas Plan completed during 2012. Other top priorities include the construction of a community center, a gym addition at the Snowden Bridge Elementary School and the Indoor Aquatic Center.

### **Handley Regional Library**

The Handley Regional Library recommends three projects. The library's top priority is a new library branch in the Gainesboro area. The two remaining projects request that funding be provided for new library branches throughout the County which include the areas of Route 522 South and Senseny/Greenwood Road; both of which are anticipated to be located within the UDA (Urban Development Area) in locations consistent with the approved area plans - the Senseny/Eastern Frederick Area Plan, and the Southern Frederick Area Plan.

### **County Administration**

The two requests from Public Works are for the relocation of the Albin Citizen Convenience Site and the expansion of the Gore Citizen Convenience Site. The joint County Administration and School Administration Building and the future replacement of the Joint Judicial Center remain in the CIP.

General Government Capital Expenditures is also included in the CIP – this item enhances the connection between the CIP and proffered contributions made to mitigate the impacts of development projects. This item addresses those general government

capital expenditures that may fall below the established \$100,000 departmental threshold. This is similar to the approach taken for Fire and Rescue Capital Equipment (see Fire and Rescue descriptions).

### **Fire and Rescue**

The top project for the Fire and Rescue is the construction of the Regional Public Safety Training Center. The construction of Fire & Rescue Station #22 in the vicinity of Route 277, with the ability to provide an annex facility for other County-related offices is the second project. Fire and Rescue has also included a project which provides for the capital apparatus needs of this facility. Project four includes the construction of Station #23, a new facility located in the vicinity of Crosspointe that would also provide the ability for an annex facility for other County-related offices.

### **Fire and Rescue Volunteer Company Capital Equipment Requests**

The revolving fund in the amount of \$1,000,000 for the benefit of Fire and Rescue Services was established remains a component of the CIP. This capital expenditure fund is for purchasing additional and replacement capital equipment fire and rescue vehicles and equipment that may fall below the guidelines established by the Finance Committee. It was determined that the inclusion of such a project would be beneficial in ensuring that this significant capital expense is identified in the County's capital planning and budget process. This project is primarily for the benefit of the individual Volunteer Fire and Rescue Companies. Individual Fire and Rescue Companies previously identified their own capital requests which have been added to the CIP in a lump sum amount. Each of the capital requests meet the \$100,000 guideline established by the Finance Committee.

Greenwood Fire Station has included a request for a renovation of the station; Clearbrook Fire station is requesting a new fire station; Middletown Station is seeking a building addition; Stephens City Station is seeking a medic unit replacement and a tower replacement.

### **Sheriff's Office**

The Sheriff's Office has included four projects in their CIP. The top project is the construction of an eight-bay steel storage building for housing of large specialized vehicles that require coverage due to their equipment and specialized tools. Other projects include 25 new patrol vehicles, 25 Motorola 8500 mobile radios and 25 Motorola 800 portable radios.

## **Transportation Committee**

The Transportation Committee continues to provide project requests for the CIP. Virginia State Code allows for transportation projects to be included within a locality's CIP. Funding for transportation project requests will likely come from developers and revenue sharing. Implementation of transportation projects does not take away funding for generalized road improvements.

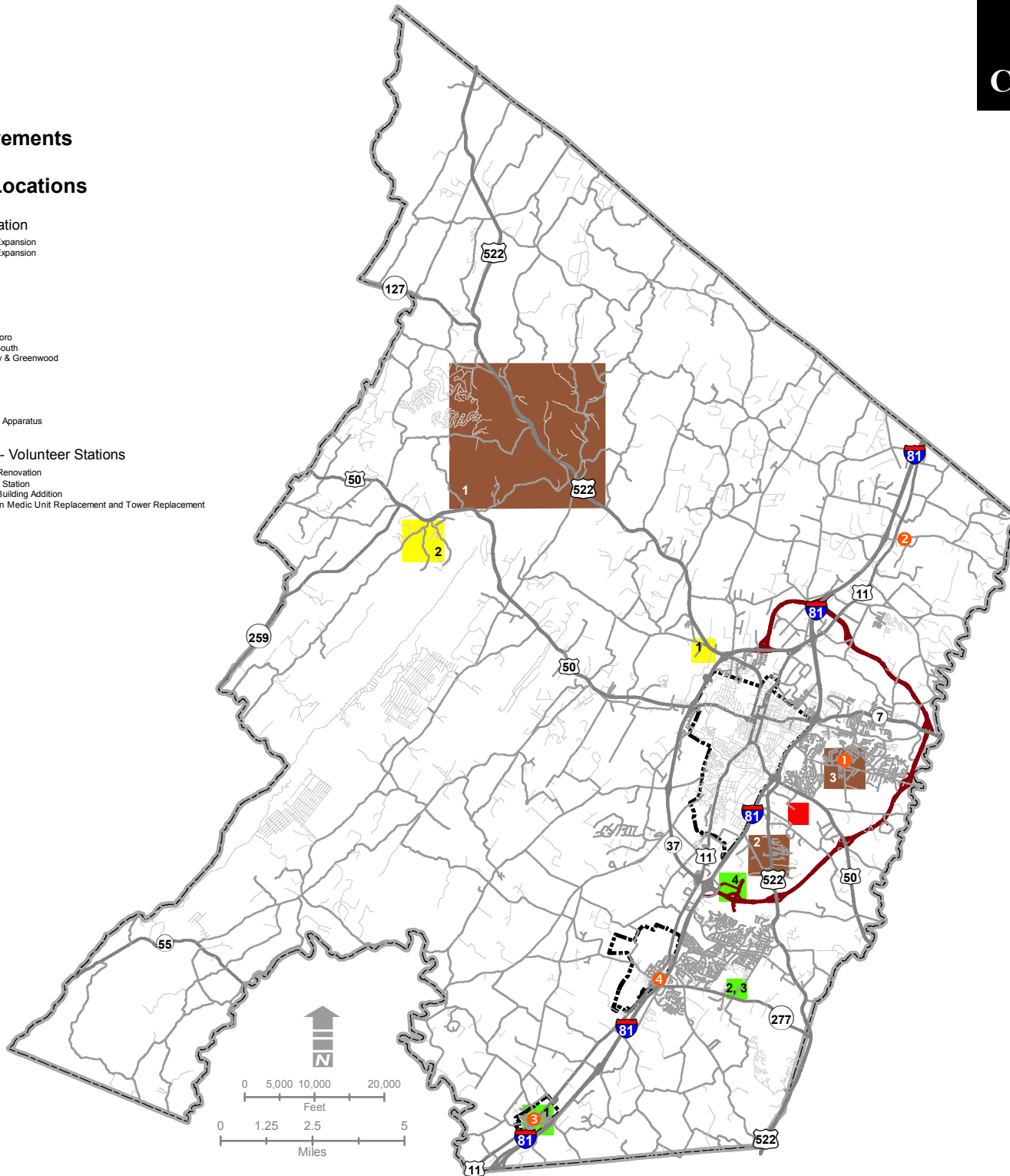
The Transportation Committee has requested funding for 22 projects. The top three requests include Route 277 improvements, Airport Road/East Tevis Street Extension and Renaissance Drive (Phase 2). The inclusion of the Eastern Road Plan Improvements item once again emphasizes the connection between the CIP and potential proffered contributions made with rezoning projects which are aimed at mitigating potential transportation impacts identified in the Comprehensive Plan.

## **Winchester Regional Airport**

Funding for airport projects is derived through a complex formula where the federal and state governments contribute a majority of the funding, with Frederick County and the other jurisdictions providing the remaining funding. The construction of a new general aviation terminal to support future airport operations continues to be number one in the CIP, followed by the Taxiway "A" Relocation (design/construction). A number of other projects focus on land acquisition in support of airport development to meet Federal Aviation requirements for general aviation facilities. The vast majority of the funding for these improvements comes from the FAA and VDA.

**2019 - 2024  
Capital Improvements  
Specific or  
Approximate Locations**

- County Administration**
  - 1 Albin Convenience Site Expansion
  - 2 Gore Convenience Site Expansion
  
- Airport**
  
- Library**
  - 1 Library Branch - Gainesboro
  - 2 Library Branch - Rt 522 South
  - 3 Library Branch - Senseny & Greenwood
  
- Fire & Rescue**
  - 1 Regional Training Center
  - 2 Fire & Rescue Station 22
  - 3 Fire & Rescue Station 22 Apparatus
  - 4 Fire & Rescue Station 23
  
- Fire & Rescue - Volunteer Stations**
  - 1 Greenwood Station Renovation
  - 2 New Clearbrook Fire Station
  - 3 Middletown Station Building Addition
  - 4 Stephens City Station Medic Unit Replacement and Tower Replacement



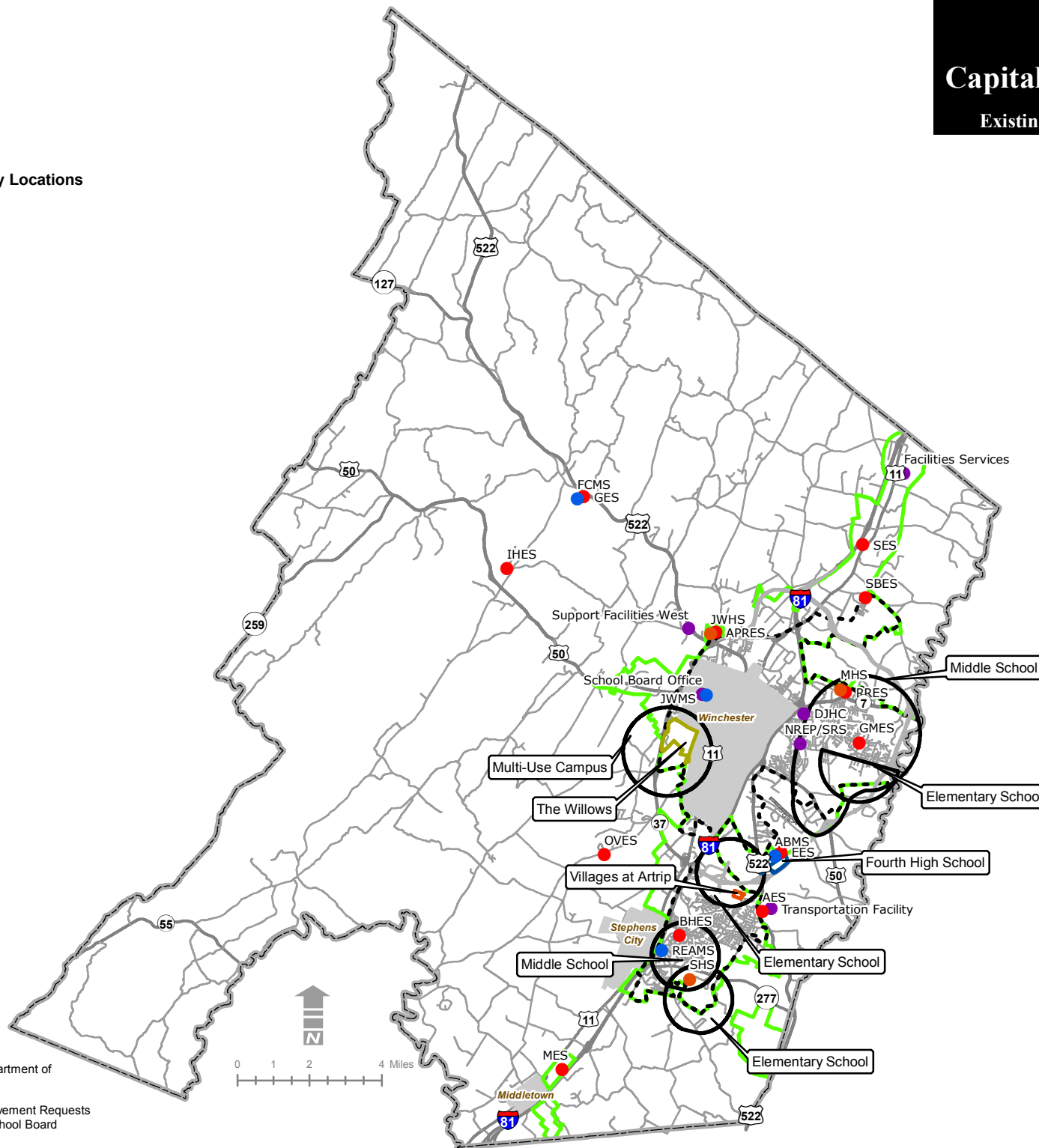
# 2019 - 2024 Frederick County Capital Improvements Plan

## Existing and Potential School Locations

- High Schools
- Middle Schools
- Elementary Schools
- Support Facilities

### Potential School Facility Locations

- Potential School Locations
- Purchased Land
- Proffered Land
- Potential Proffer
- Urban Development Area
- SWSA



Note:  
Created by Frederick County Department of  
Planning & Development

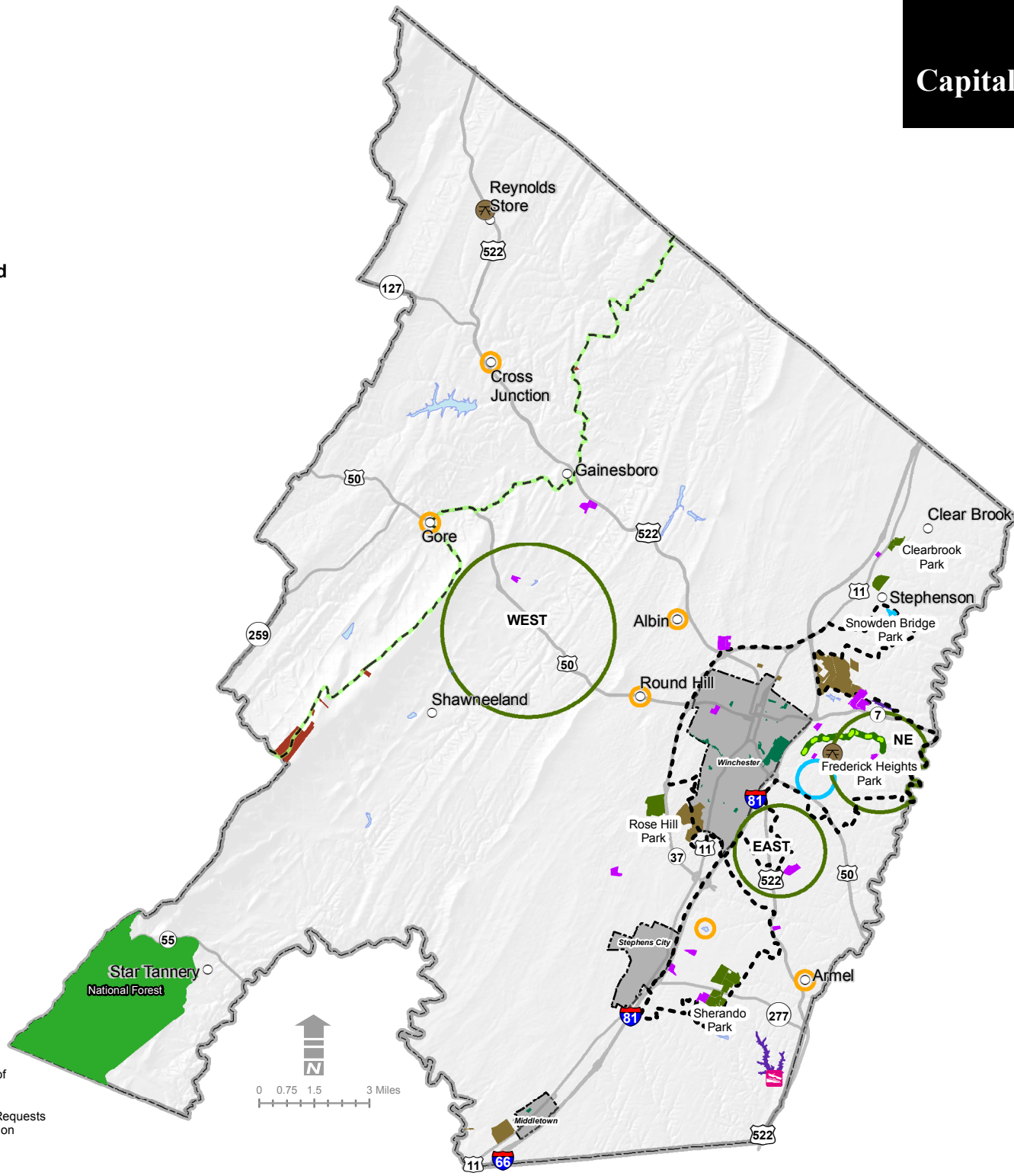
Map represents the Capital Improvement Requests  
submitted by Frederick County School Board  
11/26/18

School Locations  
Are Most  
Appropriate  
Within the UDA



# 2019 - 2024 Frederick County Capital Improvements Plan New Parks/Rec Locations

- Proposed Parks**
- District
  - Community
  - Neighborhood
  - ~ Abrams Creek Trail
- Existing County Parks**
- District Park
  - Community Park
  - Neighborhood Park
- Publicly Accessible Land**
- Federal
  - State
  - Battlefield
  - Non-Profit
  - Local Park
  - ~ Tuscarora Trail
  - School
  - Public Boat Launch
  - Urban Development Area









Note:  
Created by Frederick County Department of  
Planning & Development

Map represents the Capital Improvement Requests  
submitted by The Dept of Parks & Recreation  
11/26/2018

# 2019 - 2024 Frederick County Capital Improvement Plan Transportation Projects

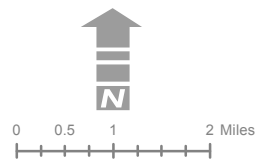
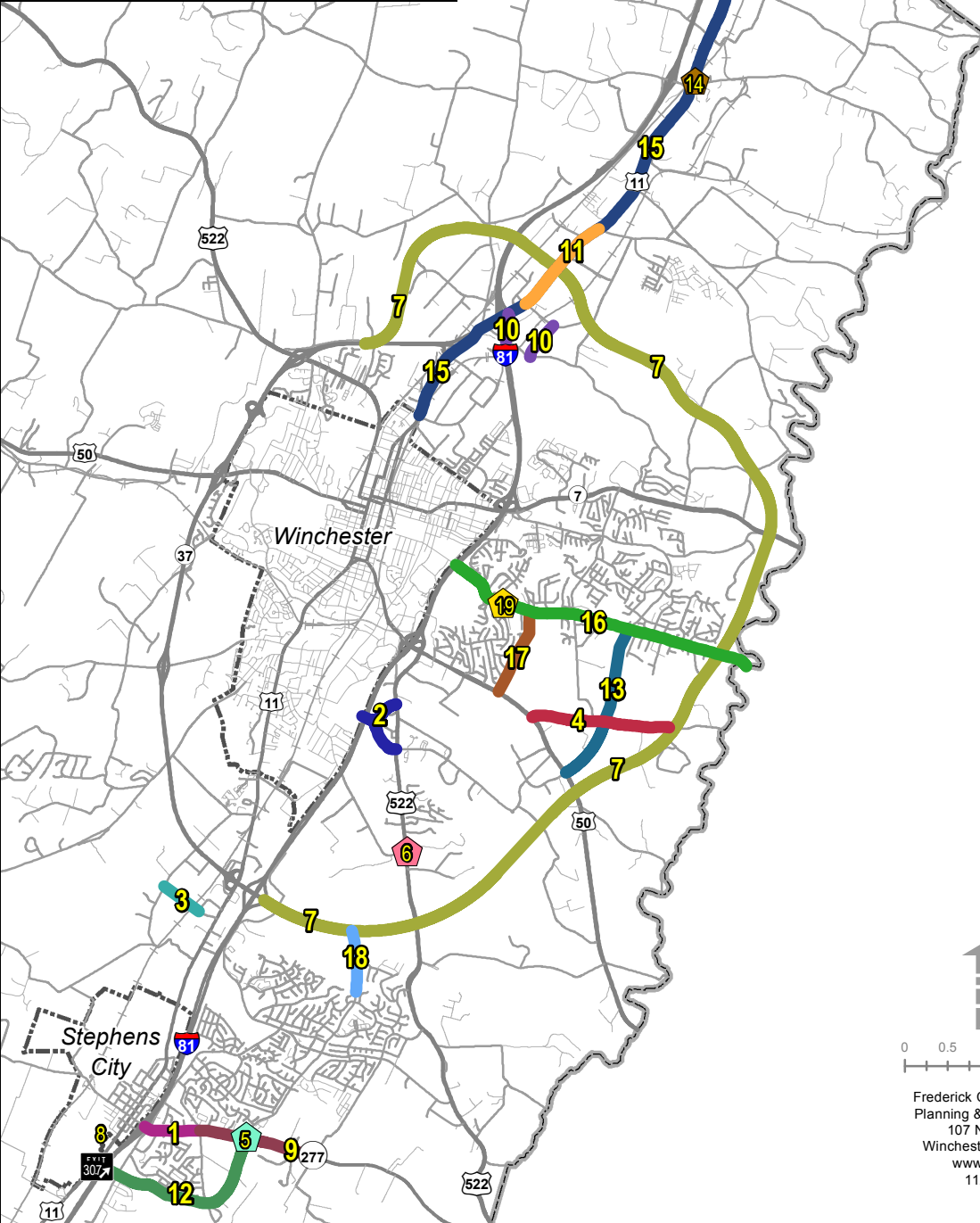
## 2019 - 2024 Capital Improvement Plan Transportation Projects

### Funded Priorities

-  1. ROUTE 277 WIDENING & SAFETY IMPROVEMENTS (PH 1)
-  2. AIRPORT RD EXTENSION, EAST TEVIS ST EXTENSION, & BRIDGE OVER I-81
-  3. RENAISSANCE DR, PHASE 2
-  4. SULPHUR SPRINGS RD IMPROVEMENT FROM ROUTE 50 TO LANDFILL
-  5. ROUTE 277; RT TURN LANE EXTENSION AT WARRIOR DR
-  6. PAPERMILL RD; RT TURN LANE EXTENSION AT ROUTE 522

### Unfunded Priorities

-  7. CONTINUE ROUTE 37 PLANNING & ENGINEERING WORK
-  8. I-81 EXIT 307 RELOCATION
-  9. ROUTE 277 WIDENING & SAFETY IMPROVEMENTS (PH 2)
-  10. REDBUD RD & EXIT 317 RAMP REALIGNMENTS
-  11. ROUTE 11 N WIDENING FROM SNOWDEN BRIDGE BLVD TO OLD CHARLESTOWN RD
-  12. WARRIOR DR EXTENSION TO NEW EXIT 307
-  13. CHANNING DR EXTENSION TO ROUTE 50
-  14. BRUCETOWN RD/ HOPEWELL RD; ALIGNMENT AND INTERSECTION
-  15. ROUTE 11 N OF WINCHESTER WIDENING TO WV LINE
-  16. SENSENY RD WIDENING
-  17. INVERLEE WAY; CONNECTION FROM SENSENY RD TO ROUTE 50
-  18. WARRIOR DR EXTENSION FROM ROUTE 37
-  19. SENSENY RD; TURN LANES AT CRESTLEIGH DR
-  22. EASTERN ROAD PLAN IMPROVEMENTS



Frederick County Dept of  
Planning & Development  
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11/20/18

## THE CIP TABLES - CONTENT DESCRIPTIONS

The Capital Improvements Plan tables, on the following four pages, contains a list of the capital improvement projects proposed for the ensuing five years. A description of the information in this table is explained below.

**Projects Ranked by Department** - The priority rating assigned by each agency or department for their requested projects.

**County Contribution** - The estimated dollar value that will be contributed for each project. This value is listed by individual fiscal years and by total contributions over the five-year period. The total contribution column, located to the right of the fiscal year columns, does not include debt service projections.

**Notes** - Indicates the footnotes that apply to additional funding sources for particular projects.

**Total Project Costs** - The cost for each project, including the County allocations and other funding sources.

### PROJECT FUNDING

The projects included in Table 1 have a total projected cost to the County of \$422,286,169 this figure excludes Airport request and transportation projects as these are primarily funded through other sources.

While the CIP is primarily used to cover the next five years, much of the project costs have been identified beyond the next five years.

- School projects are funded through a combination of loans from the Virginia Public School Authority and the Virginia Literary Fund.
- Funding for Parks and Recreation Department projects will come from the unreserved fund balance of the County. The Parks and Recreation Commission actively seeks grants and private sources of funding for projects not funded by the County.
- The inclusion of transportation projects to the CIP is in no way an indication that Frederick County will be undertaking these projects. Funding projects will continue to come from a combination of state and federal funds, developer contributions, and revenue sharing.
- Airport projects will be funded by contributions from the federal, state, and local governments. The local portion may include contributions from Frederick, Clarke, Shenandoah, Warren Counties, and the City of Winchester.

**Table 1 - 2019-2024 Capital Improvement Plan Requests**

Table 1 - 2019-2024 Capital Improvement Plan Requests											
		Contribution Per Fiscal Year									
	Projects - Ranked by Department	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024+	Long Range Comprehensive Plan Projects	County Contributions	Notes	Total Project Costs
Department		Ensuing Fiscal Year	Year 2	Year 3	Year 4	Year 5	Beyond Year 6+				
<b>Public Schools</b>											
								<i>Please refer to the map identifying future school sites for additional school sites located throughout the County.</i>			
	New High School	\$30,000,000	\$40,000,000	\$40,000,000	\$12,200,000				\$122,200,000		\$122,200,000
	Armel Elementary School Addition/Renovation	\$2,500,000	\$7,500,000	\$1,800,000					\$11,800,000		\$11,800,000
	School Board Office Renovation/Expansion	\$1,600,000	\$2,000,000						\$3,600,000		\$3,600,000
	James Wood High School Renovation/Upgrades			\$1,000,000	\$20,000,000	\$20,000,000	\$25,000,000		\$66,000,000		\$66,000,000
	Sherando High School Renovation/Addition			\$1,000,000	\$20,000,000	\$25,000,000	\$25,400,000		\$71,400,000		\$71,400,000
	Apple Pie Ridge Elementary Renovation			\$3,000,000	\$6,000,000	\$6,000,000			\$15,000,000		\$15,000,000
	<b>Total</b>	<b>\$34,100,000</b>	<b>\$49,500,000</b>	<b>\$46,800,000</b>	<b>\$58,200,000</b>	<b>\$51,000,000</b>	<b>\$50,400,000</b>		<b>\$290,000,000</b>		<b>\$290,000,000</b>
<b>Parks &amp; Recreation</b>											
	Abrams Creek Greenway Trail		\$111,000	\$599,985	\$508,915				\$1,219,900		\$1,219,900
	Community Center		\$9,067,000						\$9,067,000		\$9,067,000
	Gym Addition - Snowden Bridge Elementary		\$1,260,000						\$1,260,000		\$1,260,000
	Indoor Aquatic Facility		\$480,000	\$11,361,000					\$11,841,000		\$11,841,000
	Sherando/Clearbrook Water Slide/Spray Ground		\$655,000						\$655,000		\$655,000
	Sherando Snowden Bridge Park Development	\$210,000	\$2,200,000						\$2,410,000		\$2,410,000
	Sherando SH Baseball Lighting Replacement		\$856,000						\$856,000		\$856,000
	Sherando SH Park Area 1 Rec Access Phase 2		\$100,000	\$1,190,000					\$1,290,000		\$1,290,000
	Sherando SH Softball Complex	\$176,000	\$1,547,000						\$1,723,000		\$1,723,000
	Sherando SH Park Area 3 Development		\$100,000	\$2,150,000					\$2,250,000		\$2,250,000
	Sherando Playground Replacement		\$350,000	\$300,000	\$150,000	\$250,000			\$1,050,000		\$1,050,000
	Community Park			\$1,040,000	\$1,154,000				\$2,194,000		\$2,194,000
	Neighborhood Parks			\$873,000			\$4,363,000		\$5,236,000		\$5,236,000
	District Parks				\$4,131,000		\$8,262,000		\$12,393,000		\$12,393,000
	Sherando National Guard Armory Gym Addition				\$510,000				\$510,000		\$510,000
	Sherando S. Sherando Park Development					\$2,137,000			\$2,137,000		\$2,137,000
	Sherando Fleet Trip Vehicles					\$322,000			\$322,000		\$322,000
	Sherando SH Park Area 1 and 2 Development					\$3,127,000			\$3,127,000		\$3,127,000
	Indoor Ice Rink						\$6,489,000		\$6,489,000		\$6,489,000
	<b>Total</b>	<b>\$386,000</b>	<b>\$16,726,000</b>	<b>\$17,513,985</b>	<b>\$6,453,915</b>	<b>\$5,836,000</b>	<b>\$19,114,000</b>	<b>\$0</b>	<b>\$66,029,900</b>		<b>\$66,029,900</b>

		Contribution Per Fiscal Year									
	Projects - Ranked by Department	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024+	Long Range Comprehensive Plan Projects	County Contributions	Notes	Total Project Costs
<b>Regional Library</b>	Gainesboro Library		\$165,023	\$1,475,736	\$128,275				\$1,769,034		\$1,769,034
	Route 522 South Library					\$306,765	\$2,736,470		\$3,043,235		\$3,043,235
	Senseny/Greenwood Library		TBD						TBD		TBD
	<b>Total</b>	<b>\$0</b>	<b>\$165,023</b>	<b>\$1,475,736</b>	<b>\$128,275</b>	<b>\$306,765</b>	<b>\$2,736,470</b>		<b>\$4,812,269</b>		<b>\$4,812,269</b>
<b>County Administration</b>	Albin Convenience Site	\$1,224,000							\$1,224,000	E	\$1,224,000
	Gore Convenience Site Expansion		\$35,000	\$909,000					\$944,000		\$944,000
	General Government Capital Expenditures	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000			\$1,000,000	E	\$1,000,000
	County/School Board Administration Building						TBD		TBD	E	TBD
	Joint Judicial Center New Facility						TBD		TBD		TBD
<b>Total</b>	<b>\$1,424,000</b>	<b>\$235,000</b>	<b>\$1,109,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$0</b>		<b>\$3,168,000</b>			<b>\$3,168,000</b>
<b>Fire &amp; Rescue</b>	Regional Training Center	\$75,000	\$100,000	\$1,250,000	\$10,000,000	\$9,500,000		\$10,250,000	\$31,175,000		\$31,175,000
	Fire Station 22	\$400,000	\$1,500,000	\$1,500,000					\$3,400,000		\$3,400,000
	Station 22 Apparatus		\$250,000	\$850,000					\$1,100,000		\$1,100,000
	Fire Station 23	\$550,000	\$2,150,000	\$1,000,000					\$3,700,000		\$3,700,000
	<b>Total</b>	<b>\$1,025,000</b>	<b>\$4,000,000</b>	<b>\$4,600,000</b>	<b>\$10,000,000</b>	<b>\$9,500,000</b>	<b>\$0</b>	<b>\$10,250,000</b>	<b>39,375,000</b>		
<b>Fire &amp; Rescue Company Capital Requests</b>	Fire & Rescue Capital Equipment	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000			\$1,000,000	E	\$1,000,000
	Greenwood Fire Station renovation	700,000									\$700,000
	New Clearbrook Fire Station	33,000	88,000	4,575,000							\$4,696,000
	Middletown Station Building Addition	100,000	3,000,000								\$3,100,000
	Stephens City Station - Medic Unit Replacement	240,000									\$240,000
	Stephens City Station - Tower 11 Replacement			130,000	1,170,000						\$1,300,000
	<b>Total</b>	<b>\$1,273,000</b>	<b>\$3,288,000</b>	<b>\$4,905,000</b>	<b>\$1,170,000</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$0</b>	<b>1,000,000</b>		
<b>Sheriffs Office</b>	Vehicle Storage Building	320,000							\$320,000		\$320,000
	25 New Patrol Cars	870,000	\$870,000	\$870,000	\$870,000	\$870,000	\$870,000		\$5,220,000		\$5,220,000
	25 Motorola 8500 Radios	200,000	200,000	200,000	200,000	200,000	200,000		\$1,200,000		\$1,200,000
	25 Matorola 8000 Portable Radios	187,500	187,500	187,500	187,500	187,500	187,500		\$1,125,000		\$1,125,000
	<b>Total</b>	<b>\$1,577,500</b>	<b>\$1,257,500</b>	<b>\$1,257,500</b>	<b>\$1,257,500</b>	<b>\$1,257,500</b>	<b>\$1,257,500</b>	<b>\$1,257,500</b>	<b>\$0</b>	<b>7,865,000</b>	
<b>Total</b>	<b>\$39,785,500</b>	<b>\$75,171,523</b>	<b>\$77,661,221</b>	<b>\$77,409,690</b>	<b>\$68,300,265</b>	<b>\$73,507,970</b>	<b>\$10,250,000</b>	<b>\$412,250,169</b>			<b>\$422,286,169</b>

Other Funding Sources:

E= Partial funding anticipated through development & revenue sources  
TBD= To be Determined

Table 2 - Transportation Projects - CIP Requests											
		Contribution Per Fiscal Year									
	Projects - Ranked by Agency	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024+	Long Range Comprehensive Plan Projects	County/VDOT/Private Contributions	Notes	Total Project Costs
		Ensuing Fiscal Year	Year 2	Year 3	Year 4	Year 5	Beyond Year 6+				
<b>Funded Priorities</b>	Route 277, Fairfax Pike, Widening and Safety Improvements (ph 1)	\$35,944,878							\$35,944,878	E	\$35,944,878
	Airport Road Extension, East Tevis Street Extension and Bridge over 81	\$24,703,788							\$24,703,788	E	\$24,703,788
	Renaissance Drive, Phase 2	\$5,791,500							\$5,791,500	E	\$5,791,500
	Sulpher Springs Road Improvement project	\$11,946,091							\$11,946,091	E	\$11,946,091
	Route 277 right turn extension Warrior Drive	\$476,644							\$476,644	E	\$476,644
	Papermill Road right turn lane extension Route 522	\$507,262							\$507,262	E	\$507,262
<b>Unfunded Priorities</b>	Route 37 Engineering & Construction							\$750,000,000	\$750,000,000	E	\$750,000,000
	I-81 Exit 307 Relocation with 4 In connection to Double Church and Stephens City Bypass							\$234,255,469	\$234,255,469	E	\$234,255,469
	Route 277, Fairfax Pike, Widening and Safety Improvements (ph 2)							\$25,428,550	\$25,428,550	E	\$25,428,550
	Redbud Road Realignment and Exit 317 Ramp realignment							\$11,239,132	\$11,239,132	E	\$11,239,132
	Widening of Route 11 North (ph 1)							\$28,346,120	\$28,346,120	E	\$28,346,120
	Warrior Drive Extension (south)							\$47,000,000	\$47,000,000	E	\$47,000,000
	Channing Drive Extension							\$45,000,000	\$45,000,000	E	\$45,000,000
	Brucetown/Hopewell Realign.							\$3,800,000	\$3,800,000	E	\$3,800,000
	Widening of Route 11 North (ph2)							\$192,000,000	\$192,000,000	E	\$192,000,000
	Senseny Road Widening							\$67,000,000	\$67,000,000	E	\$67,000,000
	Inverlee Way							\$27,300,000	\$27,300,000	E	\$27,300,000
	Warrior Drive Extension (Crosspointe south)							\$33,500,000	\$33,500,000	E	\$33,500,000
	Senseny Road turn lanes/improvements Crestleigh Drive							\$2,548,579	\$2,548,579	E	\$2,548,579
	Eastern Road Plan Improvements							TBD	TBD	E	TBD
<b>Total</b>		<b>\$79,370,163</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,467,417,850</b>	<b>\$1,546,788,013</b>		<b>\$1,546,788,013</b>

Other Funding Sources: E= Partial funding anticipated through development & revenue sources

The inclusion of transportation projects to the CIP is in no way an indication that Frederick County will be undertaking these projects. Funding projects will continue to come from a combination of state and federal funds, developer contributions, and revenue sharing

Table 3 - Winchester Reginal Airport CIP Requests										
Projects - Ranked by Agency	Contribution Per Fiscal Year						Long Range Comprehensive Plan Projects	County Contributions	Notes	Total Project Costs
	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024+				
	Ensuing Fiscal Year	Year 2	Year 3	Year 4	Year 5	Beyond Year 6+				
New General Aviation Terminal	\$1,960,000	\$4,070,000	\$85,400						A,B	\$6,115,400
Taxiway "A" Relocation Design/Construction	\$300,000	\$3,130,000	\$3,340,000	6,300,000	\$3,800,000				A,B	\$16,870,000
Land Parcel 64B-A-51 (Moreland)	\$175,000								A,B	\$175,000
Land Parcel 64-A-69 (Robertson)	\$160,000								A,B	\$160,000
Land Parcel 64B-A-33A (Beaver)		\$125,000								\$125,000
Land Parcel 64B-A-40 (Rosenberger)		\$175,000							A,B	\$175,000
Land Parcel 64-A-60 (Cooper)		\$200,000							A,B	\$200,000
Land Parcel 64-A-64 (Hott)		\$160,000							A,B	\$160,000
Runway 14 Approach Lights				\$500,000					A,B	\$500,000
Fuel Storage Facility				\$1,000,000					A,B	\$1,000,000
North Side Access Road						700,000			A,B	\$700,000
Land Parcel 64B-A-52 (Lee)							175,000		A,B	\$175,000
Land Parcel 64-A-59 (Kyle)							175,000		A,B	\$175,000
RPZ Land Services							250,000		A,B	\$250,000
<b>Total</b>	<b>\$2,595,000</b>	<b>\$7,860,000</b>	<b>\$3,425,400</b>	<b>\$7,800,000</b>	<b>\$3,800,000</b>	<b>\$700,000</b>				<b>\$26,780,400</b>

A= Partial funding from VA Dept. of Aviation

B= Partial funding from FAA

\*Airport projects will be funded by contributions from the federal, state, and local governments. The local portion may include contributions from Frederick, Clarke, Shenandoah, and Warren Counties, and the City of Winchester.

**APPENDIX**

**PROJECT DESCRIPTIONS**



## Frederick County Public Schools Project Priority List

### PRIORITY 1 - New High School

**Description:** The new high school project will serve students grades 9-12, have a program capacity of 1,725 students, and will address anticipated growth in high school student enrollment in the school division. The site is located at the end of Justes Drive behind Admiral Byrd MS. This school is designed for collaborative education, similar to the new Frederick County MS, with a variety of learning spaces to meet the needs of a variety of learning styles and to impart skills necessary in today's working world.

**Capital Cost:** \$122,200,000

**Justification:** This project will address expected growth in high school student enrollment in the school division over the next several years. We propose to open the new high school in the fall of 2023. We project that enrollment in the high schools by that time will be 4,597 students. High school program capacity is currently 3,785 students.

**Construction Schedule:** Construction will take 48 months

### PRIORITY 2 - Armel Elementary School Addition and Renovation

**Description:** Armel ES opened in 1991 and has served continuously as a K-5 elementary school since that time. The school contains 70,281 square feet and has a program capacity of 558 students. As of October 31, 2018, the school has 639 students. Eight classrooms will be added to Armel ES, to accommodate the additional growth at Lake Frederick. The existing facility will be updated as needed and core areas partially renovated to serve the additional students.

**Capital Cost:** \$11,800,000

**Justification:** Armel Elementary School is in good condition; however, growth in the attendance zone will need to be addressed through the addition of classrooms to the facility. An attendance rezoning was completed four years ago as part of the implementation of full-day kindergarten. Addressing the growth issue at Armel was studied as a part of this rezoning. Four areas were identified to be rezoned to another school to offset the additional growth at Lake Frederick. None of the four options provided a complete and satisfactory solution. One option would have put Armel outside of its own attendance zone. A second would have split a neighborhood and sent some of the neighborhood to a school further away. A third would have simply relocated the growth issue to another school. The fourth option was adopted, but only moved ~50 students, a temporary reprieve from growth pressures.

**Construction Schedule:** 30 months

### **PRIORITY 3 – Administrative Office Renovation**

**Description:** Frederick County Public Schools' administration has been located at the old Kline Elementary School building since 1983. Before the building was converted to offices, it had served as a school since 1961. The facility contains 27,992 square feet, including the 5,000 square foot Annex and the 2,400 square foot Finance Addition, but not including the four modular classroom units that are used for offices and work space.

**Capital Cost:** \$3,600,000

**Justification:** The 57-year-old Administrative Offices building does not have enough office and meeting space, needs technology upgrades, and improvements to the plumbing and electrical systems to meet modern code. Meeting space is at a premium, as we only have 2 sizeable meeting rooms. There are also building security and asbestos issues. These issues will become pressing as the district (and therefore the staff) grows.

**Construction Schedule:** 30 months

### **PRIORITY 4 - James Wood High School Renovations and Additions**

**Description:** James Wood High School opened in 1980 and has served as a high school since that time. The school contains 234,095 square feet and has a program capacity of 1,200 students. The building serves grades 9-12. The building is in good condition; however, several major areas need to be addressed in a renovation. Focus of the renovation will include student-centered learning modification of instructional areas to support modern instructional delivery, mechanical, electrical, plumbing, technology, finishes, and site.

**Capital Cost:** \$66,000,000

**Justification:** James Wood High School is 38 years old. Renovations and additions are needed to a number of areas to support effective, economical, and efficient operation of the school for years to come. This school will be renovated to be more like the 4th HS, the new Frederick County MS, and the Aylor MS replacement, with a variety of learning spaces to meet the needs of a variety of learning styles and to impart skills necessary in today's working world.

**Construction Schedule:** 36 Months

### **PRIORITY 5 – Sherando High School Renovations and Addition**

**Description:** Sherando High School opened in 1993. The facility contains 239,517 square feet and has a program capacity of 1,285 students serving grades 9-12. Several major areas need to be addressed in a renovation, including reorganization and addition of classroom and storage space to better equip the building to support collaborative education. Because we want the facility to last another 30 years, facility infrastructure will be renewed and updated, and finishes will be refreshed. Other areas to be addressed are security, traffic safety, and gender equity in athletic facilities.

**Capital Cost:** \$71,400,000

**Justification:** Sherando is 25 years old and will be at least 32 years old by the time we renovate it. Renovations are needed to ensure the economical, efficient, and effective operation of the school for years to come. Modern instruction requires that a variety of learning spaces be provided, including collaborative spaces of varying sizes and project labs (similar to maker spaces). Transportation safety concerns exist on and around the school site at Sherando during arrival and dismissal. Sherando does not have a softball field on site, instead using a softball field in Sherando Park. This represents an equity issue between boys and girls' sports and is contrary to FCPS' policy of equity between boys and girls' sports.

**Construction Schedule:** 48 Months

### **PRIORITY 6 – Apple Pie Ridge Elementary School Phase 2 Renovation**

**Description:** Apple Pie Ridge Elementary School opened in 1974 and has served continuously as an elementary school since that time. The school contains 65,120 square feet and has a program capacity of 459 students. Currently the building serves grades K-5. The building is in good condition; however, several major areas need to be addressed, including open classroom space, ADA compliance, energy conservation, security, and upgrades of fire alarms, electrical, plumbing and mechanical systems.

**Capital Cost:** \$15,000,000

**Justification:** Apple Pie Ridge Elementary School is 44 years old and renovation is needed to a number of areas to ensure the economical and efficient operations of the school for years to come.

**Construction Schedule:** 48 Months

## Parks & Recreation Department Project Priority List

### PRIORITY 1 – Abrams Creek Trail

**Description:** 10' wide, asphalt, shared-use trail along Abrams Creek. From Senseny Road to Channing Drive. It is estimated the trail will have six bridge stream crossings and will be approximately 3 miles in length. As outlined below, the project is envisioned in three phases of approximately 1 mile each. Each phase will have logical beginning and ending points and be usable trail sections in themselves. Phase 1 from Senseny Road to Woodstock Lane. Phase 2 from Woodstock Lane to Woody's Place, and Phase 3 from Woody's Place to Channing Drive.

**Capital Cost:** \$1,219,900

**Justification:** This facility would provide recreational opportunities for residents and provide an alternate means of entering and exiting the City of Winchester from Eastern Frederick County. This project is intended to meet the needs of the community as identified in the 2017 Frederick County Parks and Recreation Community Survey, and the 2012 Virginia Outdoors Plan Survey.

**Construction Schedule:** Completion in FY 22-23.

### PRIORITY 2 – Community Center

**Description:** The Community Center project would be approximately 44,000 square feet and include an indoor area large enough to accommodate a minimum of two basketball courts. This court area would also be designed for utilization by indoor soccer, baseball, softball, wrestling, volleyball, tennis and badminton with the installation of in-floor sleeves and drop curtains or partitions. This area could also be used for special events such as dances, proms, music festivals, garden and home, outdoor, craft, antique, quilt, or boat shows, thus providing a flexible facility for a multitude of activities to take place at one time. The facility would also house a fitness center, multi-purpose rooms, office, storage, and locker rooms.

**Capital Cost:** \$9,067,000

**Justification:** Since its inception, the Parks and Recreation Department has relied significantly on the use of the County public schools to house recreation programs. This arrangement was adequate when the department first started out, however the department currently offers over 250 sections of programs, creating a situation where the department is limited in its ability to meet the programming and facility needs of the County residents. A Community Center facility will facilitate the department to meet citizen programming demands and provide the area with a facility to attract new businesses to the community. This facility would be available to all area residents and is intended to meet the needs of the community as identified in the 2017 Frederick County Parks and Recreation Community Survey.

The Department and the community has benefited from the co-location of recreation and school facilities, however community size warrants a separate facility dedicated to recreation use. The construction of this project will provide a facility the Department will be able to offer year-round and all-day recreational programming to the residents of Frederick County. This facility could be built in conjunction with or as an attachment to the Indoor Aquatic Facility and should be centrally located.

**Construction Schedule:** Completion in FY 21-22.

### **PRIORITY 3 – Gym Addition – Snowden Bridge Elementary**

**Description:** This project brings the Snowden Bridge Elementary School into the Cooperative Use framework for shared school and community uses. Expanding the gymnasium from elementary size to full size and adding community multi-purpose room space to the proposed school site.

**Capital Cost:** \$1,260,000

**Justification:** The model in place since Orchard View Elementary was built in 2000 added gymnasium and multipurpose space to elementary schools, as these schools are located where population growth is present. Growth in community programming, camps, and indoor sport leagues continues to create demand for more gymnasium and multi-purpose space. Adding pressure for this location is that there are no community center spaces in the Stonewall District, while population continues to increase.

**Construction Schedule:** Completion in FY 20-21.

### **PRIORITY 4 – Indoor Aquatic Facility**

**Description:** The approximately 35,000 square foot building will likely house a 10-lane competitive pool, 6 lane warm water teaching pool, meeting rooms, shower and changing rooms, and facilities support areas. The above facility would meet the swimming needs of the community, including HS level swim teams.

**Capital Cost:** \$11,841,000

**Justification:** There are no public indoor public pools in Frederick County. By constructing the indoor pool, it would permit the department to meet competition needs, instructional needs, citizen programming provide a nucleus to attract new businesses to the community. This project is intended to meet the needs of the community as identified in the 2017 Frederick County Parks and Recreation Community Survey.

This facility would be available to all area residents. The construction of this project will provide a facility to offer competitive scholastic programs and year-round recreational programming for the residents of Frederick County.

**Construction Schedule:** Completion in FY 20-21.

### **PRIORITY 5 - Water Slide and Spray Ground**

**Description:** Upgrade the outdoor swimming pools at both Clearbrook and Sherando Parks. Upgrade would involve the removal of the diving boards and the installation of one 50' water slide and one 75' water slide at each pool. The upgrade would also include the addition of a spray ground with 10-12 features at each pool.

**Capital Cost:** \$655,000

**Justification:** To provide recreational opportunities for the Clearbrook Park and Sherando Park service area. Frederick County Parks and Recreation Department operates two outdoor swimming pools at the regional parks. These facilities are over 20 years old and were constructed with two diving boards as the main feature for each pool. Swimming pool attendance has trended decline in recent years and users are requesting different water features. The addition of two water slides and a spray ground to each pool facility will appeal to families and younger children, increasing pool attendance by an estimated 30%. With the increase in attendance and potentially fees to comparable facilities, the County would realize an increase in user fee revenue. Clearbrook and Sherando Parks, currently owned by Frederick County, offer the best site and location for the development of this facility. With the upgrade to the existing swimming pool facilities, the County would not have to incur costs for property acquisition or infrastructure development and increase the recreational opportunities at the regional parks.

**Construction Schedule:** Completion in FY 20-21.

### **PRIORITY 6 – Snowden Bridge Park Development**

**Description:** Snowden Bridge Park, situated on land proffered by the Snowden Bridge development utilizes park and school land for the provision of an active recreation park. The above park is to include athletic fields suitable for league play. Lighting, restroom and parking are part of the park concept.

**Capital Cost:** \$2,410,000

**Justification:** The overall park design is informed by the Snowden Bridge (formerly Stephenson Village) rezoning proffer of 2003. The proffer indicates the provided land to be used for baseball and/or soccer field development in anticipation of the population increase generated by the development.

**Construction Schedule:** Completion in FY 20-21.

### **PRIORITY 7 – Sherando Ballfield Lighting Replacement**

**Description:** Upgrade the ballfield lighting at Sherando Parks Baseball facilities. The upgrade would involve the removal of the 30/20 FC (footcandle) level fixtures, lamps, and wood poles and replace with 50/30 FC (footcandle) level fixtures, lamps and steel poles on (4) four fields at Sherando Park. This standard is required by Little League International on all little league fields. LED light fixtures are specified as HID fixtures are facing obsolescence.

**Capital Cost:** \$856,000

**Justification:** The Parks and Recreation Commission is recommending the ballfield light system be upgraded to achieve the recommended 50/30 footcandle level lighting on the playing surface. This will facilitate the provision of recreational opportunities at Sherando Park for the service areas which include all Frederick County residents. The field light fixtures are over twenty-five years old and are affixed to poles.

**Construction Schedule:** Completion in FY 20-21.

### **PRIORITY 8 - Sherando Park Area 1 Recreation Access Phase 2**

**Description:** This project continues the development vision for the NW area of Sherando Park located north of Rt. 277 as shown in the 2016 North Sherando Park Master Plan update. Continuing Line Drive to Landgrant Lane, parking, restroom building, and dog park are elements of this phase.

**Capital Cost:** \$1,290,000

**Justification:** This facility would provide recreational opportunities for the entire Frederick County area. In addition to its use as a recreational facility, it will be used by the Frederick County school system. This project is intended to meet the needs of the community as identified in the 2017 Frederick County Parks and Recreation Community Survey.

**Construction Schedule:** Completion in FY 21-22.

### **PRIORITY 9 - Sherando Park North – Softball Complex**

**Description:** This project completes the development vision for the SE area of Sherando Park located north of Rt 277. This vision is expressed in the 2016 North Sherando Park Master Plan update. Included are softball fields to complete the complex, a shared use trail segment, roadway and parking.

**Capital Cost:** \$1,723,000

**Justification:** This facility would provide recreational opportunities for the entire Frederick County area. In addition to its use as a recreational facility, it will be used by the Frederick County school system. Presently, there are ten softball/baseball fields within the County's regional park system. Eight of ten existing fields must serve a dual purpose of facilitating youth baseball as well as youth and adult softball programs. With the increased usage of these fields, it has become more difficult to facilitate these programs. This project is needed in order for the Parks and Recreation Department to accommodate the existing demand of youth baseball and adult softball programs. This project is intended to meet the needs of the community as identified in the 2017 Frederick County Parks and Recreation Community Survey. Sherando Park, currently owned by Frederick County, represents the very best site for softball field development. The fact that the County will not have to acquire property for this facility means that the most costly aspect of this development has already been completed. Sherando Park also provides a location that is situated in the fastest growing area of the county and is adjacent to Sherando High School. Joint use of facilities between the park and school system has facilitated school activities and recreation programs.

**Construction Schedule:** Completion in FY 21-22.

### **PRIORITY 10 - Sherando Park Area 3 Development**

**Description:** This project completes the development vision for the SW area of Sherando Park located north of Rt 277. This vision is expressed in the 2016 North Sherando Park Master Plan update. Included are rectangular play fields, a shared use trail segment, roadway and parking, playground, restroom, and maintenance building.

**Capital Cost:** \$2,250,000

**Justification:** This facility would provide recreational opportunities for the entire Frederick County area. In addition to its use as a recreational facility, it will be used by the Frederick County school system. With the development of N Sherando Softball Complex (CIP item #9) two rectangular play fields will be displaced. The development of area 3 not only addresses this direct result, but also addresses additional identified needs of the community.

**Construction Schedule:** Completion in FY 21-22

### **PRIORITY 11 – Playground Replacement**

**Description:** This project schedules replacement for playgrounds at County Parks.

Acquisition of Parkland (35 acres)

**Capital Cost:** \$1,050,000



**Justification:** County park playgrounds are popular amenities at County owned parks. The playgrounds will need to be replaced to meet user expectations.

**Construction Schedule:** This project is anticipated to be ongoing, a four-year schedule is proposed. Year 1: CB main playground, Frederick Heights. Year 2: CB 2nd playground, SH 2nd playground. Year 3: SH 3rd playground. Year 4: SH Main playground.

### **PRIORITY 12 – Community Park**

**Description:** The Community Park project includes the acquisition of approximately thirty-five acres. Developed amenities will ultimately be determined by the specific site, however typical development would include:

- Acquisition of Parkland; 35 acres
  - Paved & Gravel Paths
  - Playground
  - Tot lot
  - Shelters
  - Lighted Basketball & Tennis courts
  - Open Play Fields
  - Toilets
  - Parking
  - Shade Trees & Turf

**Capital Cost:** \$2,194,000

**Justification:** Potential acreage for parkland would be located close to population density, east of Winchester, Redbud / Shawnee District area. The location of this project would provide developed parkland to create more accessible recreational facilities and opportunities to the residents Frederick County.

**Construction Schedule:** Completion in FY 22-23.

### **PRIORITY 13 – Neighborhood Parks**

**Description:** The Neighborhood project includes the acquisition of six sites of approximately ten acres and the subsequent development of these sites. Developed amenities will ultimately be determined by the specific site, however typical development would include:

- Acquisition of Parkland, 10 acres per site
  - Paved Path
  - Playground
  - Shelter
  - Hard Surface Courts
  - Open Play Fields
  - Parking

**Capital Cost:** \$5,236,000

**Justification:** To reduce the gap between the amount of existing parkland and the amount of parkland needed to meet the minimum standard for our service area, as recommended by the 2013 Virginia Outdoors Plan. This project is intended to meet the needs of the community as identified in the 2017 Frederick County Parks and Recreation Community Survey. Potential acreage for parkland would be located in the Urban Development Area or Rural Community Centers. The location of this project would provide parkland developed to create more accessible recreational facilities and opportunities to the residents of Frederick County.

**Construction Schedule:** 2021-beyond 24

**PRIORITY 14 – Regional Park**

**Description:** Acquisition of Parkland;

- Northeastern Frederick County 150-200 acres
- Western Frederick County 150-200 acres
- Eastern Frederick County 150-200 acres

**Capital Cost:** \$12,393,000

**Justification:** This project would meet the recreation needs of the Frederick County population.

**Construction Schedule:** 2022-beyond 24

**PRIORITY 15 - National Guard Armory Gym Addition**

**Description:** Through an agreement with the National Guard, Frederick County would convert the existing buildings assembly space to a gymnasium. The project includes flooring and air conditioning.

**Capital Cost:** \$510,000

**Justification:** The model in place since Orchard View Elementary was built in 2000 added gymnasium and multi-purpose space to elementary schools, as these schools are located where population growth is present. Growth in community programming, camps, and indoor sport leagues continues to create demand for more gymnasium and multi-purpose space.

**Construction Schedule:** Completion in FY 22-23.

#### **PRIORITY 16 - S. Sherando Park Development**

**Description:** This project completes the development vision for the area of Sherando Park located south of Rt 277. This vision is expressed in the 2002 Sherando Park Master Plan update. Included are rectangular play fields, skate park, roadway and parking, and restroom.

**Capital Cost:** \$2,137,000

**Justification:** This facility would provide recreational opportunities for the entire Frederick County area.

**Construction Schedule:** Long range planning objective – beyond FY24

#### **PRIORITY 17 – Fleet Trip Vehicles**

**Description:**

Bus #1 – 40-50 Passenger Bus

Bus #2 – 30-40 Passenger Bus

Van #1 – 12 Passenger Van

**Capital Cost:** \$322,000

**Justification:** To offer a comprehensive package of trips where the population of Frederick County could begin to rely on the Parks and Recreation Department to meet their trip needs.

**Construction Schedule:** Completion in FY 23-24.

#### **PRIORITY 18 – N Sherando Park Area 1 & 2 Development**

**Description:** This project completes the development vision for the area of Sherando Park located north of Rt 277 and Wrights Run. This vision is expressed in the 2016 North Sherando Park Master Plan update. Included are multi-use trail, mountain bike trails, restrooms, pavilions, roadway and parking.

**Capital Cost:** \$3,127,000

**Justification:** This facility would provide recreational opportunities for the entire Frederick County area. This project is intended to meet the needs of the community as identified in the 2017 Frederick County Parks and Recreation Community Survey.

**Construction Schedule:** Long range planning objective – beyond FY24

### **PRIORITY 19 – Indoor Ice Rink**

**Description:** The Ice Rink project would be approximately 40,000 square feet and include an indoor area large enough to accommodate a single 200' x 85' ice rink, locker rooms, party/meeting rooms, and concession area and would need approximately 10 acres to construct. This facility should be located on property owned or proffered to the County. The above ice rink may be collocated with other compatible uses should opportunities arise, reducing the acreage demand.

**Capital Cost:** \$6,489,000

**Justification:** There are no public indoor ice rinks in Frederick County and County residents currently must travel over one hour to use an indoor ice facility. By constructing the indoor ice rink, it would permit the department to meet competition needs, instructional needs, citizen programming and leisure demands as well as provide a nucleus to attract new businesses to the community. This facility would be available to all area residents. The construction of this project will provide a facility to offer year-round recreational programming for the residents of Frederick County. This project is intended to meet the needs of the community as identified in the 2017 Frederick County Parks and Recreation Community Survey. The Indoor Ice Rink facility should be located in an area convenient to the major transportation corridors of the County. However, as an alternative, one of the two County regional parks could be used to house the facility, since these locations are already identified as centers for recreation programs and activities.

**Construction Schedule:** Long range planning objective – beyond FY24

## Handley Regional Library Project Priority List

### **PRIORITY 1 - Frederick County Library Branch - Gainesboro**

**Description:** Construction of a 4,000 to 5,000 square foot branch library, either as a stand-alone facility or co-located with a planned Frederick County facility (e.g. the new middle school). Initial parking should be for at least 50 vehicles. The proposed location would be on Rt. 522 in the Gainesboro District, but this could change depending on patterns of library use and on whether donated land could be located or if co-located with a Frederick County project already in the early planning stage. This projected branch would fit per discussions with FCPS on existing property and was outlined in a document prepared by FCPS students two years ago.

**Capital Cost:** \$1,749,034

**Justification:** This branch would serve citizens living in this growing area: In 2017-2018 Frederick County citizens of all ages checked out 463,265 items. 38000 Frederick County residents have library cards and averaged 60.3 % of all materials checked out of the regional system. 3018 Frederick County residents, adults and children, registered for library cards for the first time in 2016-2017. Of Frederick County residents over five years of age (when you can get a library card), approximately 53 % of the total have library cards. This new branch would bring the level of library usage up closer to the national average level of 58%. This population group in the Gainesboro District is not close to a library in the regional system. The Library will provide materials and programming for citizens from toddlers to senior citizens. It will provide recreational and educational materials. It will be a prime source for homework help since it will be open nights and on weekends when school libraries are closed. The library will supply computer access via Wi-Fi, rental tablets and hotspots, via desktop/laptop computers for word processing, as well as other office applications and for Internet usage. There will be a meeting room of 425 square feet in which area groups can meet.

**Construction Schedule:** Completion in FY 23-24.

### **PRIORITY 2 - Frederick County Library Branch - South Library**

**Description:** Construction of a 7,000 sq. ft. branch library with expansion possible to 10,000 square feet. Initial parking should be for a minimum of 35 vehicles. The proposed location is yet to be determined and is dependent on future development. The first step of the project would be the acquisition of the land of 3 to 4 acre or collocated with the new High School projected to be built in the same area.

**Capital Cost:** \$3,043,235

**Justification:** This branch would serve a rapidly growing area per recent Frederick County documents. In 2017-2018 Frederick County citizens of all ages checked out 463,265 items. 38000 Frederick County residents have library cards and averaged 60.3 % of all materials checked out of the regional system. 3018 Frederick County residents, adults and children, registered for library cards for the first time in 2016-2017. Of Frederick County residents over five years of age (when you can get a library card), approximately 53 % of the total have library cards. This new branch would bring the level of library usage up closer to the national average level of 58%. This population group in the Opequon District is not close to a library in the regional system. The Library will provide materials and programming for citizens from toddlers to senior citizens. It will provide recreational and educational materials. It will be a prime source for homework help since it will be open nights and on weekends when school libraries are closed. The library will supply computer access via Wi-Fi, rental tablets and hotspots, via desktop/laptop computers for word processing, as well as other office applications and for Internet usage. There will be a meeting room of 425 square feet in which area groups can meet.

**Construction Schedule:** Long range planning objective – beyond FY24

### **PRIORITY 3 - Frederick County Library Branch - Senseny/Greenwood**

**Description:** Construction of a 10,000 sq. ft. branch library with expansion possible to 15,000 square feet. Initial parking should be for a minimum of 65 vehicles. The proposed location is yet to be determined and is dependent on future development. The first step of the project would be the acquisition of the land of 5 to 8 acres.

**Capital Cost:** TBD

**Justification:** This area contains a large number of single-family units that do not have easy or close access to any of our regional libraries. In 2017-2018 Frederick County citizens of all ages checked out 463,265 items. 38000 Frederick County residents have library cards and averaged 60.3 % of all materials checked out of the regional system. 3018 Frederick County residents, adults and children, registered for library cards for the first time in 2016-2017. Of Frederick County residents over five years of age (when you can get a library card), approximately 53 % of the total have library cards. This new branch would bring the level of library usage up closer to the national average level of 58%. As noted above the population group in the Redbud/Shawnee District is not close to a library in the regional system. The Library will provide materials and programming for citizens from toddlers to senior citizens. It will provide recreational and educational materials. It will be a prime source for homework help since it will be open nights and on weekends when school libraries are closed. The library will supply computer access via Wi-Fi, rental tablets and hotspots, via desktop/laptop computers for word processing, as well as other office applications and for Internet usage. There will be a meeting room of 425 square feet in which area groups can meet.

**Construction Schedule:** Long range planning objective – beyond FY24

## County Administration Project Priority List

### PRIORITY 1 - Albin Citizens Convenience Site

**Description:** The relocation of the Albin site to property located within the Sunnyside/Albin Community is projected for FY 19/20. A preliminary agreement has been reached with Frederick County Public Schools to co-locate a facility at the former transportation center along Indian Hollow Road. The approximately two-acre project will require entrance enhancements, a turn lane, fencing, earthwork, retaining walls, electric, equipment, lighting, paving and landscaping and take several months to complete.

**Capital Cost:** \$1,224,000

**Justification:** During August of 2017, 17,006 vehicles visited the Albin facility, making it single most used solid waste facility outside of the landfill. This represented a five percent increase in usage over 2016. In 2018, the Albin site continued to experience growth in the number of users. The site averages 699 vehicles per day. On weekends this number can climb to over 900 vehicles. As trash disposal and the resulting traffic continue to increase, the present infrastructure will be unable to safely serve the public. During holidays, the site requires two attendants in order to manage traffic. However, lines still back out onto Indian Hollow Road during holidays and some weekends, creating a hazard noted several times by the Sheriff's Office.

For residents living between Cedar Creek Grade and Apple Pie Ridge Road, curbside pickup is costly, prompting heavy utilization of the convenience site which attracts a mix of users from the suburbs and rural areas. A number of users from western Frederick also drop off their trash on their way into Winchester. Avid recyclers from Westminster-Canterbury, Shenandoah University, Shenandoah's School of Pharmacy and SU students living in nearby townhouses also frequent the facility. This project has the support of the Public Works Committee.

**Construction Schedule:** Completion in FY 19-20

### PRIORITY 2 - Gore Citizens Convenience Site

**Description:** The project will expand refuse capacity in the Gore community by installing a surplus trash compactor. Converting the Gore facility from one which utilizes 10 8-yard boxes for refuse collection to one that uses a trash compactor will drive down collection costs dramatically. In order to accomplish this, and account for improved trash flow and the construction of a compactor and recycling staging area, the site will be expanded onto an adjoining parcel already owned by the County. This construction will take place over a period of months.

**Capital Cost:** \$944,000

**Justification:** A total of 3,361 vehicles utilized the facility during August 2018, an increase of 10 percent. On a typical Sunday, usage peaks at 111 vehicles. The project will pay for itself in lower refuse collection costs through compaction of solid waste prior to transport. Also, with a compactor in place, refuse will be contained in an enclosed receiver can, reducing odor, vectors and blowing litter, all of which are challenges when using open collection cans.

The project will also provide much-needed capacity during heavy flow times such as weekends and holidays. All 10 containers now fill to capacity during Saturdays and Sundays. Numerous times, the site has closed early on Sundays when capacity is reached. A 40-yard roll-off container is used during holidays to contain excess trash, an additional expense. An upgraded site will meet the current and future solid waste needs of the Gore community. The Public Works Committee supports this project.

**Construction Schedule:** Completion in FY 20-21

### **PRIORITY 3- General Government Capital Expenditures**

**Description:** This project consists of a revolving fund in the amount of \$1,000,000 for the benefit of General Governmental Capital Expenditures. It is the intention of this capital expenditure fund to be for the purpose of purchasing capital equipment for governmental agencies and to allow for improvements to general governmental facilities. Such expenditures may be less than the established \$100,000 departmental threshold. It was determined that the inclusion of such a project would be beneficial in ensuring that this significant capital expense is identified in the County's capital planning and budget process. This project is for the benefit of the County Governmental Entities participating in the CIP but does not include individual Volunteer Fire and Rescue Companies.

**Capital Cost:** \$1,000,000

**Justification:** The inclusion of this capital expenditure fund for the purpose of purchasing capital equipment for governmental agencies and to allow for improvements to general governmental facilities will enable the County to meet the requirements of the Code of Virginia with regards to the collection and disbursement of cash proffers accepted on behalf of the governmental entities.

**Construction Schedule:** N/A

### **PRIORITY 4 - County/School Board Administration Building**

**Description:** This project consists of a County/School Board Administration Building, to be located generally in the County's Urban Development Area. The Joint Administrative Office Complex project is for a new 150,000 square foot office building shared with the County Schools Administration. The Schools' portion would be 50,000 square feet.



**Capital Cost:** TBD

**Justification:** The inclusion of this capital facility will allow for improvements to general governmental facilities and services for the benefit of the residents of Frederick County and will meet the increasing need for office space, meeting space, and government services in an accessible location.

**Construction Schedule:** TBD

**PRIORITY 5 - Joint Judicial Center New Facility**

**Description:** This new project consists of a new future Joint Judicial Center Facility to be located generally in the City of Winchester or in the County's Urban Development Area.

**Capital Cost:** TBD

**Justification:** The inclusion of this capital facility will allow for improvements to general governmental facilities and services for the benefit of the residents of Frederick County and will meet the increasing need for office space, meeting space, and government services in an accessible location. The need for this project has been established through ongoing communication with the court system and the City of Winchester.

**Construction Schedule:** TBD

## Fire & Rescue Project Priority List

### **PRIORITY 1- Shenandoah Valley Regional Public Safety Training Center**

**Description:** Construct a Regional Public Safety Training Center potentially consisting of an administrative building, multi-story burn building, multi-story training tower, vehicle driving range, shooting range, and numerous other training props. This project will incorporate emergency medical services, fire, hazardous materials, rescue, law enforcement, industrial, and educational institutions located in Clarke County, Frederick County, Shenandoah County, Warren County, Winchester City, State Agencies, Federal Agencies, and potentially jurisdictions within the State of West Virginia.

The Training Center will be located in the area central to the region which is the Middletown area of Frederick County. This area will facilitate necessary access by all participating agencies and jurisdictions as well as be incorporated into the existing facilities of the Lord Fairfax Community College and the Rappahannock Regional Criminal Justice Academy – Middletown Campus. The Training Center will require between eighty (80) to one hundred (100) acres to facilitate the required buildings, associated props, and other training areas.

The determination for the exact buildings, associated props, and training areas will be determined by the agencies needs assessed by the Public Safety Training Center Questionnaire that was distributed in July 2007. The proposed Training Center will be developed in a phased approach based on the strategic needs of the Northern Shenandoah Valley Region. The exact size, square footage, and capacity of the buildings, associated props, and training areas will also be determined by the agencies as well as designed the meet the specifications of the regulatory authorities within the Commonwealth of Virginia.

**Capital Cost:** \$31,175,000

**Justification:** This project will facilitate realistic training in today's modern environment for emergency services and industrial personnel located throughout the Northern Shenandoah Valley and expanding into the State of West Virginia. This project will reinforce existing training programs in those respective agencies and jurisdictions as well as facilitate training that is currently not available within the Northern Shenandoah Valley which causes students and instructors to travel into the Washington Metropolitan region. The number of potential personnel being trained at this Training Center is potentially in the thousands based upon training statistics provided in July 2007 by the participating agencies.

**Construction Schedule:** Long Range Project – Beyond FY 2024.

## **PRIORITY 2 - Frederick County Fire & Rescue Station 22**

**Description:** Construct a two bay Fire and Rescue Station with satellite Sheriff's office and County office space for treasurer, commissioner of the revenue, and BOS office with meeting room. The station will be located in the area of Fairfax Pike, White Oak Road and Tasker Road to provide service for the heavy growth area east of Stephens City. An approximate three-acre site will be needed to accommodate this facility. The fire station will be approximately a 10,000 sq. ft facility to house an engine and ambulance. Those who would occupy the facility will determine the size of the satellite offices.

**Capital Cost:** \$3,400,000

**Justification:** This development is scheduled to be an active adult resort gated community with age restrictions on 80% of the homes above 55 and the other 20% above 45. The developer 's master plan will allow for 2130 individual dwelling units using a mix of housing types.

**Construction Schedule:** Completion in FY 21-22.

## **PRIORITY 3 - Frederick County Fire and Rescue Station 22 Apparatus**

**Description:** Purchase one (1) custom pumper equipped and one (1) custom Type I Advanced Life Support (A.L.S.) capable ambulance equipped to be assigned to Fire and Rescue Station 22.

**Capital Cost:** \$1,100,000

**Justification:** This fire and rescue apparatus will be assigned to Fire and Rescue Station 22 located on Fairfax Pike East in the Stephens City area of Frederick County. The pumper will be built to N.F.P.A. 1901 specifications and equipped with all of the required and necessary equipment to function as a Class A Pumper. The ambulance will be built to the Federal KKK-A-1822E specifications and equipped with all of the required and necessary equipment to function as an Advanced Life Support ambulance. This fire and rescue apparatus is needed due to the fact that the Fire and Rescue Department currently owns one (1) pumper and one (1) ladder truck that are twenty (20) plus years of age and already assigned to other functions. The currently owned fire and rescue apparatus would not endure the demands placed on it while being assigned to a high call volume.

**Construction Schedule:** Completion in FY 21-22

## **PRIORITY 4 - Fire and Rescue Station 23 / Annex Facilities**

**Description:** This project consists of a 10,000 square foot fire station to accommodate 4 pieces of emergency equipment, and to house living and sleeping areas for staff. This project could also include satellite offices for the Frederick County Sheriff's Office, Treasurers Office, and Commissioner of Revenue as well as a meeting room for County Supervisor meetings with their constituents

with an additional 2000 square feet of building area. A two and ½ acre parcel should be sufficient for building, parking and amenities for approximately 20 to 30 persons. The project is located at Crosspointe Center at the end of current Rt. 37 South, an area of proposed high-density residential development, and commercial development.

**Capital Cost:** \$3,700,000

**Justification:** As commercial and residential developments continue to expand in this area of Frederick County, and with the increased traffic on Rt. 37 and I-81, the calls for emergency services increases as well. To address the needs of the growing community and to maintain efficient response times, the addition of a new fire and rescue station is needed.

**Construction Schedule:** Completion in FY 21-22

### **Fire & Rescue Company Capital Project Requests**

#### **Capital Equipment Fire & Rescue – Vehicles & Equipment**

**Description:** This project consists of a revolving fund in the amount of \$1,000,000 for the benefit of Fire and Rescue Services. It is the intention of this capital expenditure fund to be for the purpose of purchasing additional and replacement capital equipment fire and rescue vehicles and equipment. It was determined that the inclusion of such a project would be beneficial in ensuring that this significant capital expense is identified in the County’s capital planning and budget process. This project is primarily for the benefit of the individual Volunteer Fire and Rescue Companies.

**Capital Cost:** \$1,000,000

**Justification:** The inclusion of this capital expenditure fund for the purpose of purchasing additional and replacement capital equipment fire and rescue vehicles and equipment will enable the County to meet the requirements of the Code of Virginia with regards to the collection and disbursement of cash proffers accepted on behalf of the fire and rescue companies.

**Construction Schedule:** N/A

### **Individual Fire & Rescue Company Capital and Capital Equipment Requests.**

#### **Greenwood Fire Station – Renovation**

**Description:** Conduct a remodeling of the 2nd floor, approximately 4,600sq ft, to accommodate additional staff assigned to Greenwood.

**Capital Cost:** \$7000,000

**Justification:** With the increase in call volume the Career staff assigned to Greenwood has increased to 4 personnel 24 hour a day / 7 days a week. The current configuration is not sufficient to meet the 24 hour a day / 7 days a week staff needs, nor does it allow space for the volunteers.

**Construction Schedule:** Completion in FY 19/20

### **Clearbrook Fire Station – New Fire Station**

**Description:** Replacement of the existing Clearbrook Fire Station.

**Capital Cost:** \$4,696,000

**Justification:** In order to accommodate the career personnel 24 hours a day, our current facility's living quarters are in critical need of upgrades. Between current staffing needs, equipment and fundraising operations, we have outgrown our facility. We have the option to swap land with the quarry on Route 11 and construct a new facility. This would give us much better access to Route 11. Or, we have the option to remain on our current property and construct a new facility on the East side. The old building would be removed, and that area would become the parking lot.

**Construction Schedule:** FY 21-22.

### **Middletown Volunteer Fire and Rescue Company– Building Addition 101**

**Description:** Demolish original building and 1st addition to the station and rebuild new facility addition. This addition will provide larger sleeping quarters for males and females, locker rooms, bathrooms, offices, storage, physical fitness room and apparatus bays.

**Capital Cost:** \$3,100,000

**Justification:** It is essential for Middletown Volunteer Fire and Rescue Company Inc. to maintain our capabilities in emergency response and the facilities to house the apparatus, tools and equipment and provide suitable living quarters for our members and FCFRD staff. Currently we are out of space in sleeping quarters for additional staff that is already slated to come, apparatus bay doors are too small for larger apparatus and the buildings are in need of repair.

**Construction Schedule:** FY 20-21.

### **Stephens City Fire and Rescue Company– Medic Unit Replacement (type 1) UNIT 11-3**

**Description:** Replacement of a 2001 commercial chassis medic unit with a new commercial chassis custom Type 1 Medic Unit. The unit will be built to the Federal KKK-A-1822E or NFPA 1917 specifications and equipped with all of the required and necessary

equipment to function as an Advanced Life Support transport unit. The apparatus will meet NFPA 1917/KKK-A-1822E standards and ISO requirements at the time of design, to include the required patient restrain and lift system and environmental controls needed for medicines required for EMS.

**Capital Cost:** \$240,000

**Justification:**

1. Personnel Safety - Many of the changes in the new standards deal with safety and cannot be retrofitted to existing EMS apparatus.
2. Condition of Major Components - An examination of the major components of an apparatus has been made including the drive train, transmission, engine, chassis, and patient compartment. These components are approaching the expected service life.
3. Changes in National Standards and Federal Mandates - Compliance with present Federal KKK-A-1822E, NFPA 1500, Standard on Fire Service Occupational Safety and Health Program and NFPA 1917, Standard for Automotive Ambulances.
4. Maintenance Costs and Performance - All apparatus is tested and inspected annually. Records show a substantial increase in cost and frequency of repairs. Soon it will no longer be economical to continue investing in repairs.

**Construction Schedule:** FY 19-20.

### **Stephens City Fire and Rescue Company– Tower 11 Replacement**

**Description:** Replacement of a 1986 custom chassis ladder tower truck with a new year custom chassis ladder tower truck. The apparatus will be built to N.F.P.A. 1901 specifications and equipped with the required tools and appliances to meet ISO standards at the time of build. The apparatus will meet NFPA standards and ISO requirements at the time of design. This project will begin approximately 6 months ahead of the design date with an ad-hoc steering/design committee.

**Capital Cost:** \$1,300,000

**Justification:**

1. Personnel Safety - Many of the changes in the new standards deal with safety and cannot be retrofitted to existing fire apparatus.
2. Condition of Major Components - An examination of the major components of an apparatus has been made including the drive train, transmission, engine, ladder, platform, hydraulic systems, pump, chassis, and body. These components are approaching the expected service life or have already been replaced.
3. Availability of Replacement Parts - As apparatus get older, replacement parts may become more difficult to obtain, leading to longer periods of "down time."
4. Changes in National Standards or Federal Mandates - Compliance with present NFPA standards (1901, Engine Fire Apparatus;

NFPA 1500, Standard on Fire Service Occupational Safety and Health Program

5. Maintenance Costs and Performance - All apparatus is tested and inspected annually. Records show a substantial increase in cost and frequency of repairs. Soon it will no longer be economical to continue investing in repairs.

**Construction Schedule:** FY 22-23.

## Sheriff's Office Project Priority List

### PRIORITY 1 – Vehicle Storage Building

**Description:** Construct an eight-bay steel building for housing of large specialized vehicles that require coverage due to the large amount of equipment and specialized tools. This project does not require the purchase of land as it will be constructed on the property of the Frederick County Public Safety Building. The building will allow for the maintenance, storage, security of all the large specialized vehicles that are required for the specialized operations teams. This building size will be 4,256 square feet and will require 13,500 square feet to build. This will be an eight bay four garage door equipment storage building with a 35x76 foot concrete pad.

**Capital Cost:** \$320,000

**Justification:** This project will facilitate the required housing of vehicles that are used for the special purpose teams. These vehicles are required to be protected from the weather to ensure quick responses to emergencies. Protecting the vehicles will allow the longevity of the vehicle by reducing engine wear and exposure to fluctuating weather conditions. Due to these vehicles belonging to specialty teams, the vehicles house important and expensive equipment. This equipment allows personnel of each specialty team to conduct the mission at hand. Much of the equipment has to be maintained at certain temperatures in order to function at a moments notice. This project will ensure the equipment is ready at all times. Stable conditions for equipment also ensures the permanency of the equipment thus saving countless amounts of money.

**Construction Schedule:** Completion in FY 19-20.

### PRIORITY 2 – 25 New Patrol Vehicles

**Description:** This project is for the projected cost of replacement vehicles to the fleet of the Frederick County Sheriff's Office over the next five years. This will ensure the replacement of end of service life vehicles to the Sheriff's Office fleet as well as the cost effectiveness for repairs to failing vehicles.

**Capital Cost:** \$5,220,000

**Justification:** This project is needed to meet the basic requirements for Law Enforcement Officers when responding to calls, patrolling of the county, community safety and safety of the Officers. This will offset the cost of purchasing vehicles that were not replaced during the 2010-2012 budget years due to budget restraints. If this project is approved it will drop the cost of purchasing 46 vehicles per year to approximately 25 per year on a rotating basis.

**Construction Schedule:** Completion in FY 23-24.



### **PRIORITY 3 – 25 Motorola 8500 Mobile Radios**

**Description:** This project is in conjunction with the implemented vehicle replacement time-line. This project will update the mobile radio system for each replaced vehicle. The Sheriff's Office has been recycling all the old radio systems from previous vehicles for so long that the current equipment is obsolete.

**Capital Cost:** \$1,200,000

**Justification:** This project is needed for equipping all time-line replaced vehicles with current and up to date radio systems in order to communicate with the Emergency Communication Center.

**Construction Schedule:** Completion in FY 23-24.

### **PRIORITY 4 – 25 Motorola 8000 Portable Radios**

**Description:** This project is in conjunction with the implemented mobile radio replacement time-line. This project will update the portable radio system for each replaced vehicle. The Sheriff's Office has been recycling all the old portable radio systems for so long that the current equipment is obsolete.

**Capital Cost:** \$1,125,000

**Justification:** This project is needed for equipping all time-line replaced portables with current and up to date radio systems in order to communicate with the Emergency Communication Center. This project will also be P-25 and narrow band compliant as outlined by the FCC regulations. This project is needed for all the specialty teams that operate outside of their vehicle while on call outs and rescue missions.

**Construction Schedule:** Completion in FY 23-24.

## Transportation Committee Project Priority List

### ***Funded Priorities***

#### **PRIORITY 1 - Route 277 Widening and Safety Improvements (Ph 1)**

**Description:** Construct a 4-lane divided roadway beginning at I-81 and continuing to Double Church Road. Project would include realignment of Aylor Road to align with Stickley Drive.

**Capital Cost:** \$35,944,878

**Justification:** This is a regional transportation improvement that will address congestion in the Southern Frederick area and address development to the surrounding areas.

**Construction Schedule:** TBD

#### **PRIORITY 2 -Airport Road Extension, East Tevis Street Extension and Bridge over I-81**

**Description:** Construct a 4-lane divided roadway beginning at Route 522 and going west approximately 0.2 miles to connect to the road network being constructed by the Russell 150 Development. Construct Airport Road from Route 522 to a roundabout intersection with the Tevis Extension on the east side of I-81. Project includes bridge over Interstate 81.

**Capital Cost:** \$24,703,788

**Justification:** This is a regional transportation improvement that will address congestion in many areas of the County and address development to the surrounding area. The location is as identified by joint planning efforts between the County, VDOT, and the developer.

**Construction Schedule:** TBD

#### **PRIORITY 3 - Renaissance Drive, Phase 2**

**Description:** Construct a connector road and Railroad Crossing between Route 11 and Shady Elm Drive.

**Capital Cost:** \$5,791,500

**Justification:** This is a transportation improvement that will address congestion at key points along Route 11 and Apple Valley Drive. This project is identified in Secondary Road Improvements Plan.

**Construction Schedule:** TBD

**PRIORITY 4 - Sulphur Springs Road Intersection improvement and widening from Route 50 to the Landfill**

**Description:** Widen Sulphur Spring Road from the intersection with Route 50 to the regional landfill, add paved shoulders for pedestrians and bicycles, improve the intersection at Route 50.

**Capital Cost:** \$11,956,091

**Justification:** This project will address capacity and safety improvements to the corridor. This project is identified in Secondary Road Improvements Plan.

**Construction Schedule:** Entering design and right-of- way underway.

**PRIORITY 5 - Route 277 right turn lane extension at Warrior Drive**

**Description:** Extend right turn lane for eastbound 277 at the intersection of Rt 277 and Warrior Drive. Installation of sidewalk for pedestrian safety and installation of pedestrian pedestal.

**Capital Cost:** \$476,644

**Justification:** This improvement would be a significant safety upgrade to this intersection.

**Construction Schedule:** TBD

**PRIORITY 6- Papermill Road right turn lane extension at Route 522**

**Description:** Extend right turn bay of Papermill Road (Route 644) where it intersects with Route 522 to alleviate turn bay spillover that is taking place.

**Capital Cost:** \$507,262

**Justification:** This improvement would be a significant safety upgrade to this intersection.

**Construction Schedule:** TBD

## ***Unfunded Priorities***

### **PRIORITY 7 - Planning, Engineering, Right-of-Way and Construction Work for Route 37**

**Description:** This project would be to continue work on the Eastern Route 37 extension. More specifically, to update the Environmental Impact Statement to the point of a new Record of Decision and to update the 1992 design plans to address the current alignment, engineering guidelines, and possible interchange improvements. In addition, this allows for advanced engineering, right-of-way purchase and construction.

**Capital Cost:** \$750,000,000

**Justification:** This project moves the County closer to completion of a transportation improvement that would benefit the entire County and surrounding localities.

**Construction Schedule:** TBD

### **PRIORITY 8- Interstate 81, Exit 307 Relocation**

**Description:** Construct a relocated Exit 307 interchange.

**Capital Cost:** \$234,255,469

**Justification:** This is a regional transportation improvement that will address congestion in many areas of the County and address coming development to the surrounding areas.

**Construction Schedule:** TBD

### **PRIORITY 9 - Route 277 Widening and Safety Improvements (Ph 2)**

**Description:** Construct a 4-lane divided roadway beginning at I-81 and continuing to Sherando Park. Project would include realignment of Aylor Road to align with Stickley Drive.

**Capital Cost:** \$25,428,550

**Justification:** This is a regional transportation improvement that will address congestion in the Southern Frederick area and address development to the surrounding areas.

**Construction Schedule:** TBD

### **PRIORITY 10- Redbud Road Realignment and Exit 317 Ramp Realignment**

**Description:** Realign Redbud Road from its current location through development land in the vicinity of Route 11 north and Snowden Bridge Boulevard and Relocate the I-81 Exit 317 NB ramp to the current location of the Redbud Road/Route 11 intersection.

**Capital Cost:** \$11,239,132

**Justification:** This is a transportation improvement that will have significant impact on Eastern Frederick County. This project is identified in the adopted Eastern Road Plan.

**Construction Schedule:** TBD

### **PRIORITY 11 - Route 11 North Widening to 6 Lanes from Snowden Bridge Boulevard to Old Charlestown Road**

**Description:** Route 11 North of Snowden Bridge Boulevard is currently primarily a two-lane roadway. This project would widen that facility to a 6-lane divided roadway with turn lanes where appropriate.

**Capital Cost:** \$28,346,120

**Justification:** This is a transportation improvement that will provide a significant capacity upgrade to address congestion on the Route 11 Corridor. This project is identified in the adopted Eastern Road Plan.

**Construction Schedule:** TBD

### **PRIORITY 12- Warrior Drive Extension**

**Description:** Construct a 4-lane divided roadway beginning at Route 277 where Warrior Drive intersects from the north and continuing that roadway south and west to intersect with I-81 at the location of the relocated Exit 307 interchange.

**Capital Cost:** \$47,000,000

**Justification:** This is a regional transportation improvement that will address congestion in the Southern Frederick area and address development to the surrounding areas.

**Construction Schedule:** TBD

### **PRIORITY 13 - Channing Drive Extension**

**Description:** Construct a 4-lane divided roadway beginning at Senseny Road where Channing Drive intersects from the north and continuing that roadway south to intersect with Route 50 East at Independence Drive.

**Capital Cost:** \$45,000,000

**Justification:** This project has been identified in the Eastern Road Plan and will address congestion in Eastern Frederick County and address development to the surrounding areas.

**Construction Schedule:** TBD

**PRIORITY 14 - Brucetown Road/Hopewell Road Alignment and Intersection Improvements**

**Description:** Realign Brucetown Road to meet Hopewell Road at Route 11. Improvements to this intersection will address comprehensive planned development's traffic generation in the area.

**Capital Cost:** \$3,800,000

**Justification:** This is a transportation improvement that will have significant impact on the Route 11 corridor. The location is identified by joint planning efforts between the County and VDOT.

**Construction Schedule:** TBD

**PRIORITY 15- Widening of Route 11 North to the West Virginia State Line**

**Description:** Improve Route 11 to a divided 4 and 6-lane facility as detailed in the Eastern Road Plan.

**Capital Cost:** \$192,000,000

**Justification:** This is a regional transportation improvement that will address congestion over a large area of the County and address development to the surrounding area. This project improves the safety for the traveling public by reducing congestion and improving the flow of traffic.

**Construction Schedule:** TBD

**PRIORITY 16 - Senseny Road Widening**

**Description:** Widen Senseny Road to a 4-lane divided roadway. This project is not dependent upon, but is being coordinated with the implementation of Route 37, Channing Drive, and development in the area.

**Capital Cost:** \$67,000,000

**Justification:** This is a transportation improvement that will have significant impact on Eastern Frederick County. This project is identified in the adopted Eastern Road Plan.

**Construction Schedule:** TBD

**PRIORITY 17 - Inverlee Way**

**Description:** Construct a 4-lane divided roadway beginning at Senseny Road and going south to Route 50 East. This project is being planned in conjunction with improvements to Senseny Road and surrounding development.

**Capital Cost:** \$27,300,000

**Justification:** This is a regional transportation improvement that will address congestion and provide an additional needed link between Senseny Road and Route 50 East.

**Construction Schedule:** TBD

**PRIORITY 18 - Warrior Drive Extension from Route 37 Crosspointe south to existing terminus**

**Description:** 4 lane roadway from the Route 37 extension in the Crosspoint Development south to the existing terminus of Warrior Drive.

**Capital Cost:** \$33,500,000

**Justification:** This improvement would be concurrent with a Route 37 extension and would provide significant congestion relief at Exit 307 as well as Tasker Road at Exit 310

**Construction Schedule:** TBD

**PRIORITY 19 - Senseny Road Turn lanes at the intersection of Senseny Road and Crestleigh Drive**

**Description:** Improvements to the intersection of Senseny Road (657) and Crestleigh Drive to include turn lanes and potential signalization. This project would add left and right turn lanes to Senseny Road at the intersection of Crestleigh and potentially a full signalization of the intersection.

**Capital Cost:** \$2,548,579

**Justification:** This improvement would be a significant safety upgrade to this intersection.

**Construction Schedule:** TBD

**PRIORITY 20 - Frederick County Eastern Road Plan**

**Description:** This project is intended to address all of the planned transportation improvements in the County Comprehensive Plan, Eastern Road Plan that are not noted individually above.

**Capital Cost:** \$TBD

**Justification:** This project prepares the County for future development by addressing the projects needed to support that development in a manner consistent with the Comprehensive Plan.

**Construction Schedule:** N/A



## Winchester Regional Airport Project Priority List

### **PRIORITY 1 - New General Aviation Terminal Building, Site Work and Parking Lot – Design and Build**

**Description:** The Airport proposes design, bid, and construction of a new terminal building. The new facility will be constructed south of the existing building.

**Capital Cost:** \$6,115,400

**Justification:** The existing terminal building was constructed in 1989. Due to its age, numerous systems are in need of significant repair or replacement. In 2008, a preliminary study was completed to examine needs and costs to renovate the existing terminal building. After review, the Winchester Regional Airport Authority (WRAA) determined it would be more economical to build a new facility. The project will also facilitate the construction of a new aircraft parking apron during the associated taxiway relocation project.

**Construction Schedule:** Completion in FY 21-22

### **PRIORITY 2 – Taxiway “A” Relocation**

**Description:** The relocation of Taxiway A is part of the overall goal to meet Federal Aviation Administration (FAA) design standards for Group III aircraft.

**Capital Cost:** \$16,870,000

**Justification:** This project improves the safety of airport operations and enhances our ability to accommodate large business aircraft. Due to the complexity of relocating the entire 5,500’ taxiway, the project has been broken down into phases over the next 4 years. Special consideration will be made to the timing of construction for the portion of taxiway that runs adjacent to the terminal building also proposed for replacement.

**Construction Schedule:** Completion in FY 23-24.

### **PRIORITY 3 – Land Parcel 64B-A-51 (Moreland)**

**Description:** The airport seeks to acquire parcel 64B A 51: Moreland on Bufflick Road to meet Federal Aviation Administration (FAA) runway protection zone (RPZ) design standards for Runway 14. Services include appraisals, review appraisals, negotiations, and fee simple purchase of the parcel.

**Capital Cost:** \$175,000

**Justification:** The parcel encompasses areas that must be protected in accordance with 14 Code of Federal Regulations Part 77 and the Code of Virginia. This property must be controlled by the airport to ensure there are no operational impacts from obstructions or incompatible land use in this area.

**Construction Schedule:** Completion in FY 19-20

**PRIORITY 4 – Land Parcel 64-A-69 (Robertson)**

**Description:** The airport seeks to acquire parcel 64B A 69: Robertson off Bufflick Road to meet Federal Aviation Administration (FAA) design standards for the taxiway object free area (TOFA) for Taxiway "A". Services include appraisals, review appraisals, negotiations, and fee simple purchase of the parcel.

**Capital Cost:** \$160,000

**Justification:** The parcel encompasses areas that must be protected in accordance with 14 Code of Federal Regulations Part 77 and the Code of Virginia. This property must be controlled by the airport to ensure there are no operational impacts from obstructions or incompatible land use in this area.

**Construction Schedule:** Completion in FY 19-20.

**PRIORITY 5 – Land Parcel 6B-A-33A (Beaver)**

**Description:** The airport seeks to acquire parcel 64B A 33A: Beaver off Bufflick Road to meet Federal Aviation Administration (FAA) runway protection zone (RPZ) design standards for Runway 14. Services include appraisals, review appraisals, negotiations, and fee simple purchase of the parcel.

**Capital Cost:** \$125,000

**Justification:** The parcel encompasses areas that must be protected in accordance with 14 Code of Federal Regulations Part 77 and the Code of Virginia. This property must be controlled by the airport to ensure there are no operational impacts from obstructions or incompatible land use in this area.

**Construction Schedule:** Completion in FY 20-21.

**PRIORITY 6 – Land Parcel 64B-A-40 (Rosenberger)**

**Description:** The airport seeks to acquire parcel 64B A 40: Rosenberger off Bufflick Road to meet Federal Aviation Administration (FAA) runway protection zone (RPZ) design standards for Runway 14. Services include appraisals, review appraisals, negotiations, and fee simple purchase of the parcel.

**Capital Cost:** \$175,000

**Justification:** The parcel encompasses areas that must be protected in accordance with 14 Code of Federal Regulations Part 77 and the Code of Virginia. This property must be controlled by the airport to ensure there are no operational impacts from obstructions or incompatible land use in this area.

**Construction Schedule:** Completion in FY 20-21.

### **PRIORITY 7 – Land Parcel 64-A-60 (Cooper)**

**Description:** The airport seeks to acquire parcel 64B A 60: Cooper off Bufflick Road to meet Federal Aviation Administration (FAA) design standards for the taxiway object free area (TOFA) for Taxiway "A". Services include appraisals, review appraisals, negotiations, and fee simple purchase of the parcel.

**Capital Cost:** \$200,000

**Justification:** The parcel encompasses areas that must be protected in accordance with 14 Code of Federal Regulations Part 77 and the Code of Virginia. This property must be controlled by the airport to ensure there are no operational impacts from obstructions or incompatible land use in this area.

**Construction Schedule:** Completion in FY 20-21.

### **PRIORITY 8 – Land parcel 64-A-64 (Hott)**

**Description:** The airport seeks to acquire parcel 64B A 64: Hott off Bufflick Road to meet Federal Aviation Administration (FAA) design standards for the taxiway object free area (TOFA) for Taxiway "A". Services include appraisals, review appraisals, negotiations, and fee simple purchase of the parcel.

**Capital Cost:** \$160,000

**Justification:** The parcel encompasses areas that must be protected in accordance with 14 Code of Federal Regulations Part 77 and the Code of Virginia. This property must be controlled by the airport to ensure there are no operational impacts from obstructions or incompatible land use in this area.

**Construction Schedule:** Completion in FY 20-21.

### **PRIORITY 9 – Runway 14 Approach Lights**

**Description:** The airport seeks to construct an omni-directional approach lighting system (ODALS) to service Runway 14. The lighting system will enhance pilots' ability to identify the end of the runway, especially in poor weather conditions.

**Capital Cost:** \$500,000

**Justification:** The project is depicted on the airport's approved airport layout plan (ALP), which was approved in conjunction the airport master plan. Future development adjacent to the airport has the potential to increase light pollution which can be distracting to pilots, thereby elevating the need for a lighting system to identify the runway location.

**Construction Schedule:** Completion in FY 22-23.

### **PRIORITY 10 –Fuel Storage Facility**

**Description:** The planned relocation of Taxiway “A” will encroach on the current fuel farm site. Further, the current site does not allow for expansion or upgrades to meet future DEQ and/or EPA requirements.

**Capital Cost:** \$1,000,000

**Justification:** The project is depicted on the airport's approved airport layout plan (ALP), which was approved in conjunction the airport master plan. A more suitable location has been identified to meet future capacity needs and compliance with future regulatory requirements.

**Construction Schedule:** Completion in FY 22-23.

### **PRIORITY 11 – North Side Access Road**

**Description:** This project proposes to construct a two-lane service road around the end of Runway 14. The road will be an appropriate length so that vehicles remain clear of navigation aid critical areas.

**Capital Cost:** \$700,000

**Justification:** The approved airport layout plan shows new development on the north side of the runway. With operations on both sides of the runway, ground vehicles will require access to both sides for fuel delivery, inspections, maintenance, and transportation of personnel. The Federal Aviation Administration (FAA) encourages the construction of service roads around aircraft activity areas, especially the runways, to prevent unauthorized access to runways and taxiways. A service road will accomplish these goals.

**Construction Schedule:** Completion in FY 23-24.

### **PRIORITY 12 – Land Parcel 64B-A-52 (Lee)**

**Description:** The airport seeks to acquire parcel 64B A 52: Lee on Bufflick Road to ensure continued protection of sensitive airport areas. Services include appraisals, review appraisals, negotiations, and fee simple purchase of the parcel.

**Capital Cost:** \$175,000

**Justification:** The parcel encompasses areas that must be protected in accordance with 14 Code of Federal Regulations Part 77 and the Code of Virginia. This property must be controlled by the airport to ensure there are no operational impacts from obstructions or incompatible land use in this area.

**Construction Schedule:** Long range planning objective – beyond FY24

**PRIORITY 13 – Land Parcel 64-A-59 (Kyle)**

**Description:** The airport seeks to acquire parcel 64 A 59: Kyle on Bufflick Road to ensure continued protection of sensitive airport areas. Services include appraisals, review appraisals, negotiations, and fee simple purchase of the parcel.

**Capital Cost:** \$175,000

**Justification:** The parcel encompasses areas that must be protected in accordance with 14 Code of Federal Regulations Part 77 and the Code of Virginia. This property must be controlled by the airport to ensure there are no operational impacts from obstructions or incompatible land use in this area.

**Construction Schedule:** Long range planning objective – beyond FY24

**PRIORITY 14 – RPZ Land Services**

**Description:** Surveys, appraisals, review appraisals, and acquisition of 4 aviation easements identified on the airport property map; PE2, PE3, PE4, and PE5.

**Capital Cost:** \$250,000

**Justification:** The parcels underlie the approach path to Runway 14. Certain land uses have the potential to cause negative impacts to airport operations. Aviation easements will help protect the airport from consequences that may result from obstructions or incompatible land uses in these areas.

**Construction Schedule:** Long range planning objective – beyond FY24