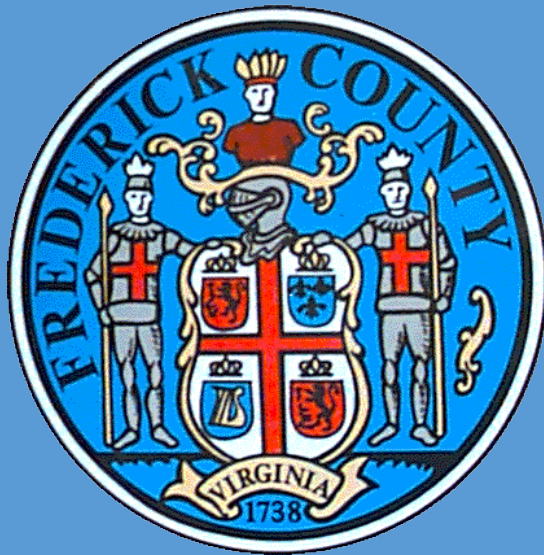


# FREDERICK COUNTY, VIRGINIA 2022-2027 CAPITAL IMPROVEMENT PLAN



Adopted by the  
Frederick County  
Board of Supervisors  
April 27, 2022

Recommended by the  
Frederick County  
Planning Commission  
February 16, 2022

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**CAPITAL IMPROVEMENTS PLAN  
FREDERICK COUNTY  
FY 2022-2027**

**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 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 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 Armel Elementary School renovation and expansion. The renovations and additions to Sherando High school are the second highest priority, followed by the construction of a 4<sup>th</sup> highschool.

### **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. Other top priorities include the Indoor Aquatic Center, Old Charlestown Road Park development.

### **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 second and third priorities are for new library branches throughout the County which include the areas of Senseny/Greenwood Road and Route 522 South; 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**

There is one request from Public Works—the Double Toll Gate Convenience Site.

County Administration projects continue to be the County Office Annex (Former Sunnyside Plaza Shopping Center), the joint County Administration and School Administration Building and the future replacement of the Joint Judicial Center. 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.

## **Fire and Rescue**

The top project for Fire and Rescue is the construction Fire & Rescue Station #22, a new facility located in the vicinity of Route 277 that would also provide the ability for an annex facility for other County-related offices; also identified as a priority is the apparatus needed for this facility. Project two 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; also identified as a priority is the apparatus needed for this facility.

### **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 \$100,000 guideline established by the Finance Committee. It was determined that the inclusion of such a priority would be beneficial in ensuring that significant capital expenses are 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. Also included are individual project and priorities from the volunteer stations.

## **Sheriff's Office**

The Sheriff's Office has included three projects in their CIP. The top project is the construction of an eight-bay steel building for housing of large, specialized vehicles that require coverage, followed by replacement law enforcement vehicles, and a firearms training simulator.

## **Public Safety Communications**

The Project 25 Public Safety Radio Network is top public safety – communications priority. This project includes the purchase, construction, and deployment of Association of Public-Safety Communications Officials (APCO) International Project 25 (P25) radio communications system to support mission-critical public safety communications within the County. This system will provide radio and paging communications for the Frederick County Sheriff's Department, Frederick County Fire & Rescue, volunteer fire & rescue companies, and the Department of Public Safety Communications.

## **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 a combination of state funds, developers, revenue sharing, various other revenue programs and possibly local funds used to leverage those funding sources.

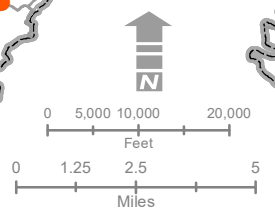
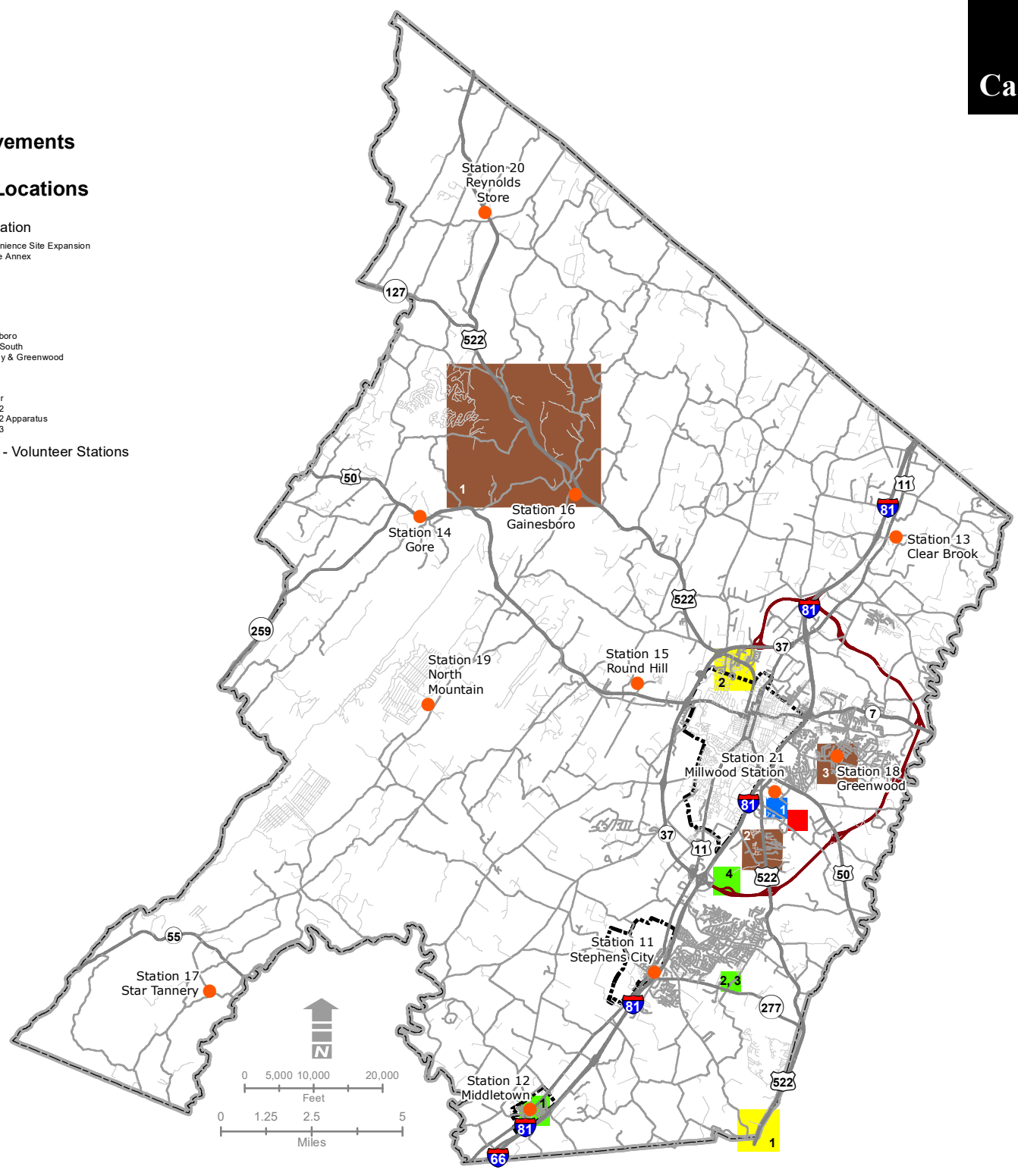
The Transportation Committee has included 26 priority projects. As projects and applications are developed, they could include all or a key portion a prioritized project. The top three priorities include Route 277 widening and safety improvements (Phase 1), Exit 313 Bridge Replacement and Capacity Improvements, and Renaissance Drive (Phase 2). The inclusion of the Eastern Road Plan Improvements item at number 27 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 aviation terminal to support future airport operations continues to be number one in the CIP, followed by the Taxiway "A" Relocation (design/construction). Other projects focus on land and easement acquisition in support of airport development to meet Federal Aviation requirements. The vast majority of the funding for these improvements comes from the FAA and VDA.

**2022 - 2027  
Capital Improvements  
Specific or  
Approximate Locations**

- County Administration**
  - 1 Double Toll Gate Convenience Site Expansion
  - 2 Sunnyside County Office Annex
- 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**
- Sheriff's Office**
  - 1 Steel Building



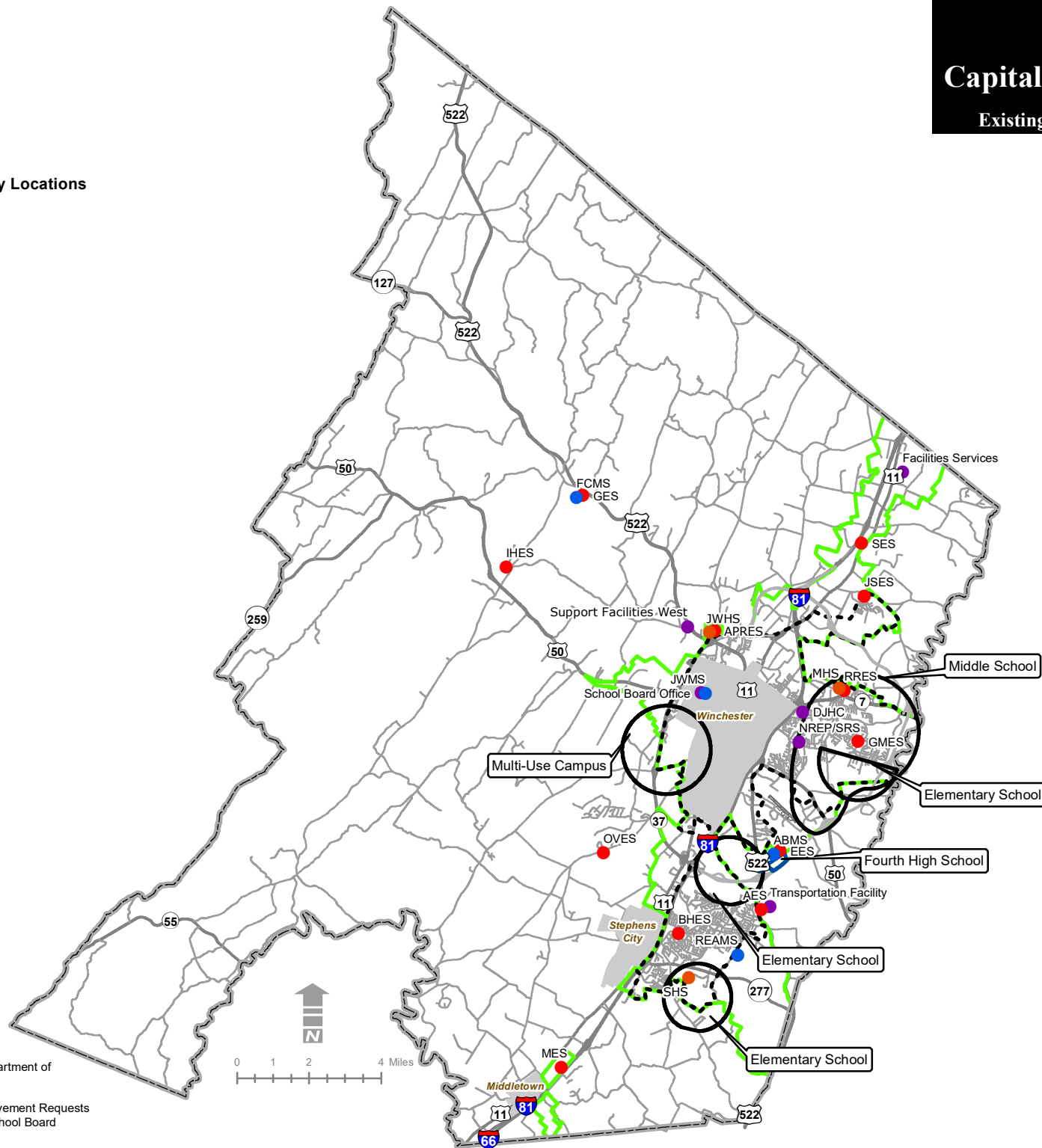
# 2022 - 2027 Frederick County Capital Improvements Plan

## Existing and Potential School Locations

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

### Potential School Facility Locations

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



Note:  
Created by Frederick County Department of  
Planning & Development

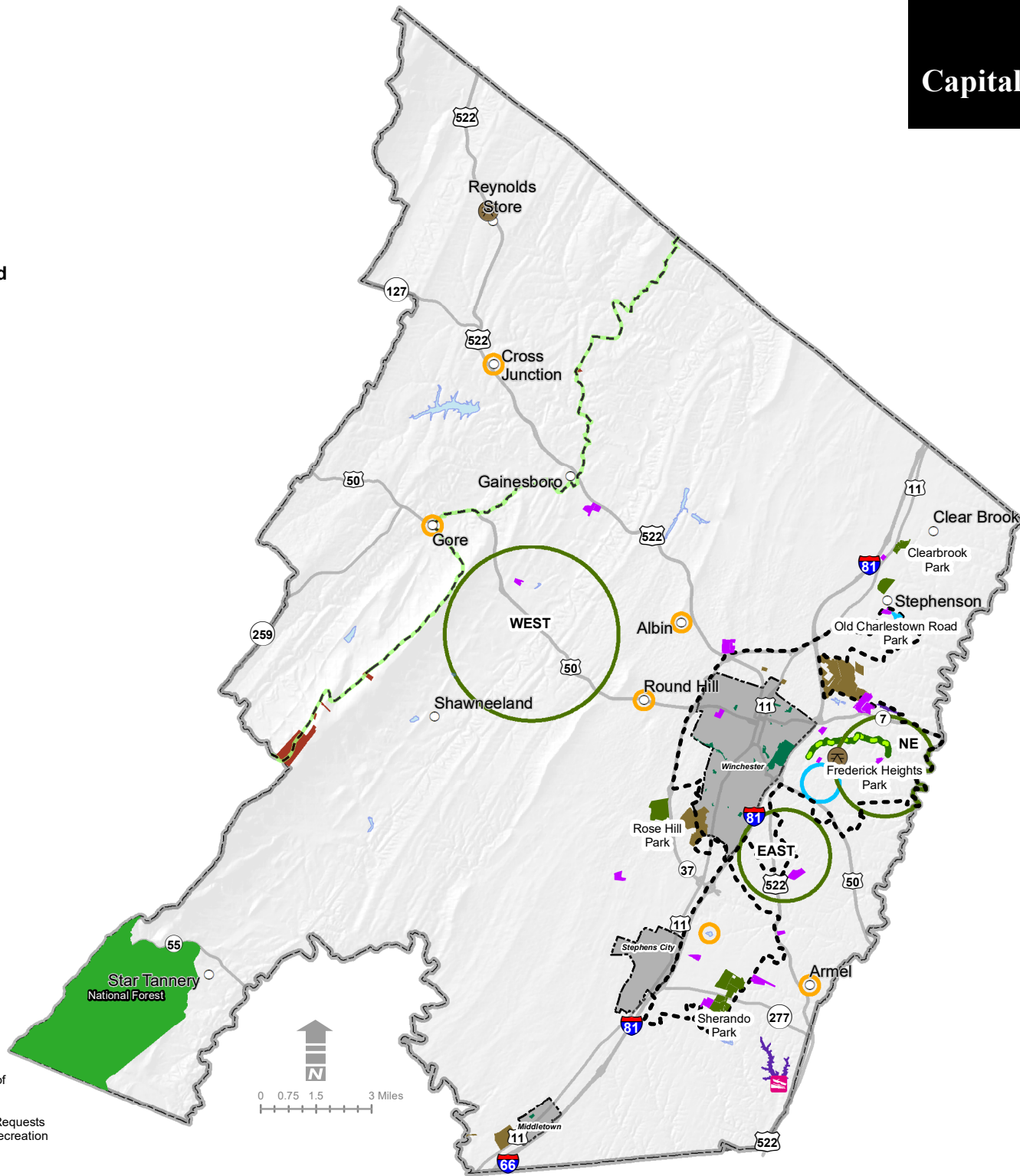
Map represents the Capital Improvement Requests  
submitted by Frederick County School Board  
01/28/22

School Locations  
Are Most  
Appropriate  
Within the UDA



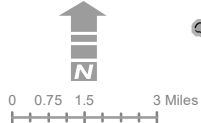
# 2022 - 2027 Frederick County Capital Improvements Plan New Parks/Rec Locations

- 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 Department of Parks & Recreation  
11/24/2021














# 2022 - 2027 Frederick County Capital Improvement Plan Transportation Projects

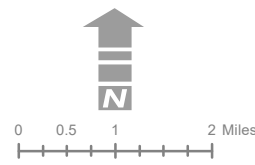
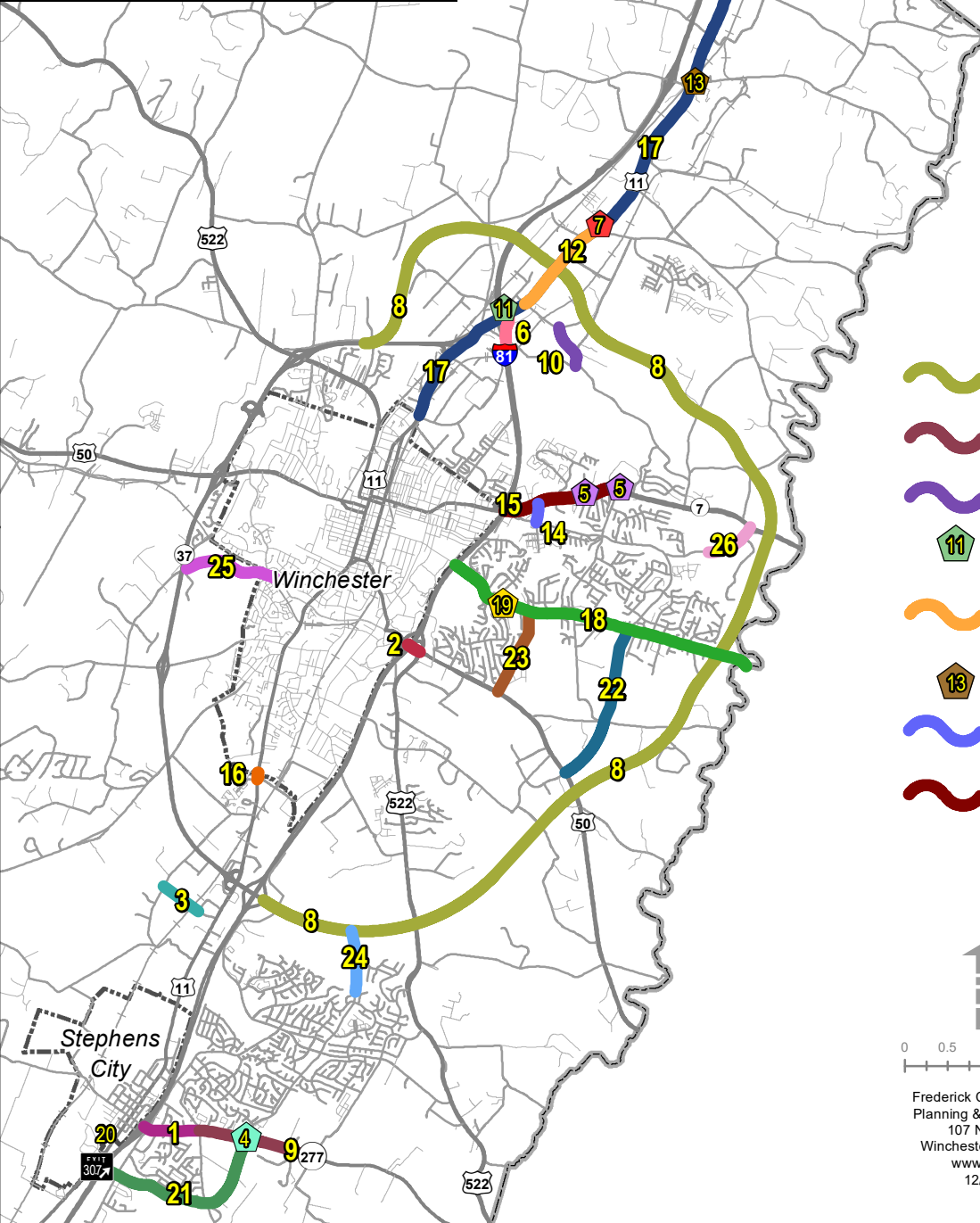
## 2022 - 2027 Capital Improvement Plan Transportation Projects

### Funded Priorities

-  1. ROUTE 277 WIDENING & SAFETY IMPROVEMENTS (PH 1)
-  2. EXIT 313 BRIDGE REPLACEMENT & CAPACITY IMPROVEMENTS
-  3. RENAISSANCE DR, PHASE 2
-  4. ROUTE 277; RT TURN LANE EXTENSION AT WARRIOR DR
-  5. ROUTE 7 STARS STUDY PROJECT
-  6. EXIT 317 INTERCHANGE RAMP REALIGNMENT
-  7. ROUTE 11 AT OLD CHARLESTOWN RD ROUNDABOUT

### Unfunded Priorities

-  8. CONTINUE ROUTE 37 PLANNING & ENGINEERING WORK
-  9. ROUTE 277 WIDENING & SAFETY IMPROVEMENTS (PH 2)
-  10. REDBUD RD REALIGNMENT
-  11. EXIT 317 INTERCHANGE UPGRADE
-  12. ROUTE 11 N WIDENING FROM SNOWDEN BRIDGE BLVD TO OLD CHARLESTOWN RD, PHASE 1
-  13. BRUCETOWN RD/HOPEWELL RD; ALIGNMENT AND INTERSECTION
-  14. VALLEY MILL RD REALIGNMENT (WEST)
-  15. ROUTE 7 CORRIDOR IMPROVEMENTS FROM EXIT 315 TO GREENWOOD RD
-  16. ROUTE 11 S WIDENING & INTERSECTION IMPROVEMENTS FROM CITY LIMITS TO OPEQUON CHURCH LN
-  17. ROUTE 11 N OF WINCHESTER WIDENING TO WV LINE, PHASE 2
-  18. SENSENY RD WIDENING
-  19. SENSENY RD; TURN LANES AT CRESTLEIGH DR
-  20. I-81 EXIT 307 RELOCATION
-  21. WARRIOR DR EXTENSION TO NEW EXIT 307
-  22. CHANNING DR EXTENSION TO ROUTE 50
-  23. INVERLEE WAY; CONNECTION FROM SENSENY RD TO ROUTE 50
-  24. WARRIOR DR EXTENSION FROM ROUTE 37
-  25. JUBAL EARLY DR EXTENSION AND INTERCHANGE WITH ROUTE 37
-  26. VALLEY MILL RD REALIGNMENT (EAST)
-  27. EASTERN ROAD PLAN IMPROVEMENTS



Frederick County Dept of  
Planning & Development  
107 N Kent St  
Winchester, VA 22601  
www.fcva.us  
12/21/21

## **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 \$306,994,061, this figure excludes Airport requests 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 - 2022-2027 Capital Improvement Plan Requests**

Table 1 - 2022-2027 Capital Improvement Plan Requests										
		Contribution Per Fiscal Year								
	Projects - Ranked by Department	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	Long Range Comprehensive Plan Projects	County Contributions	Notes	Total Project Costs
Department		Ensuing Fiscal Year	Year 2	Year 3	Year 4	Year 5	Beyond FY 2027			
<b>Public Schools</b>										
				<i>Please refer to the map identifying future school sites for additional school sites located throughout the County.</i>						
	Armel Elementary School Renovation/Expansion	\$2,000,000	\$12,600,000	\$3,700,000				\$18,300,000		\$18,300,000
	Sherando High School Renovation/Expansion			\$5,000,000	\$30,000,000	\$30,200,000	\$10,700,000	\$75,900,000		\$75,900,000
	Fourth High School				\$8,000,000	\$26,000,000	\$66,500,000	\$100,500,000		\$100,500,000
	Apple Pie Ridge Elementary School Phase 2 Renovation				\$1,000,000	\$13,400,000	\$4,300,000	\$18,700,000		\$18,700,000
	Onsite Traffic Safety Improvements							TBD		TBD
	<b>Total</b>	<b>\$2,000,000</b>	<b>\$12,600,000</b>	<b>\$8,700,000</b>	<b>\$39,000,000</b>	<b>\$69,600,000</b>	<b>\$81,500,000</b>	<b>\$213,400,000</b>		<b>\$213,400,000</b>
<b>Parks &amp; Recreation</b>										
	Abrams Creek Greenway Trail	\$508,915	\$1,397,550				\$1,882,650	\$3,789,115		\$3,789,115
	Indoor Aquatic Facility		\$2,303,600	\$20,732,400				\$23,036,000		\$23,036,000
	Old Charlestown Road Park	\$3,570,000						\$3,570,000		\$3,570,000
	Recreation Center		\$1,039,854	\$9,358,686				\$10,398,540		\$10,398,540
	Sherando Park Softball Complex	\$90,000	\$900,000					\$990,000		\$990,000
	Clearbrook Park Development	\$210,000	\$210,000					\$420,000		\$420,000
	Playground Replacement	\$367,500	\$315,000	\$157,500	\$262,500			\$1,102,500		\$1,102,500
	Sherando Park Area 1 Rec Access Phase 2		\$147,400	\$1,326,604				\$1,474,004		\$1,474,004
	Sherando Park Area 3 Development		\$259,704	\$2,337,339				\$2,597,043		\$2,597,043
	Sherando Ballfield Light Replacement		\$990,927					\$990,927		\$990,927
	Community Parks		\$1,151,850	\$1,151,850				\$2,303,700		\$2,303,700
	Neighborhood Parks		\$543,795	\$543,795	\$1,087,590		\$3,262,770	\$5,437,950		\$5,437,950
	Regional Parks				\$3,324,300	\$3,324,300	\$9,972,900	\$16,621,500		\$16,621,500
	Water Slide/Sprayground/Bld Renovation				\$106,965	\$962,681		\$1,069,646		\$1,069,646
	South Sherando Park Development					\$2,587,292		\$2,587,292		\$2,587,292
	Gym Addition Jordan Springs Elem.				\$153,154	\$1,378,384		\$1,531,538		\$1,531,538
	National Guard Armory Gym Addition						\$661,500	\$661,500		\$661,500
	Fleet Trip Vehicles						\$358,313	\$358,313		\$358,313
	Sherando Park Area 1 & 2 Development						\$3,619,893	\$3,619,893		\$3,619,893
	Indoor Ice Rink				\$1,254,352	\$11,289,168		\$12,543,520		\$12,543,520
	<b>Total</b>	<b>\$4,746,415</b>	<b>\$9,259,680</b>	<b>\$35,608,174</b>	<b>\$6,188,861</b>	<b>\$19,541,825</b>	<b>\$19,758,026</b>	<b>\$95,102,981</b>		<b>\$95,102,981</b>
<b>Regional Library</b>										
	Gainesboro Library		\$162,773	\$1,407,000	\$237,022	\$134,688		\$1,941,483		\$1,941,483
	Senseny/Greenwood Library							TBD		TBD
	522 South Library							TBD		TBD
	<b>Total</b>	<b>\$0</b>	<b>\$162,773</b>	<b>\$1,407,000</b>	<b>\$237,022</b>	<b>\$134,688</b>		<b>\$1,941,483</b>		<b>\$1,941,483</b>
<b>County Administration</b>										
	Double Toll Gate Convenience Site	\$35,000	\$750,000					\$785,000	E	\$785,000
	County Office Annex (Sunnyside)						TBD	TBD		TBD
	General Government Capital Expenditures	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	TBD	\$1,000,000		\$1,000,000
	County/School Board Administration Building							TBD		TBD
	Joint Judicial Center New Facility						TBD	TBD		TBD
	<b>Total</b>	<b>\$235,000</b>	<b>\$950,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>		<b>\$1,785,000</b>		<b>\$1,785,000</b>

		Contribution Per Fiscal Year					Long Range Comprehensive Plan Projects	County Contributions	Notes	Total Project Costs
	Projects - Ranked by Department	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027				
<b>Public Safety - Fire and Rescue, Sheriff's Office and Communications</b>										
<b>Fire &amp; Rescue</b>	Fire & Rescue Station 22			\$7,500,000				\$7,500,000		\$7,500,000
	Station 22 Apparatus			\$1,100,000			\$8,000,000	\$9,100,000		\$9,100,000
	Fire and Rescue Station 23						\$1,200,000	\$1,200,000		\$1,200,000
	Station 23 Apparatus									
<b>Capital Requests</b>	Capital Requests	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000		\$1,000,000		\$1,000,000
	<b>Total</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$8,800,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$9,200,000</b>	<b>18,800,000</b>		<b>\$18,800,000</b>
<b>Fire &amp; Rescue Company</b>										
<b>Capital Requests</b>	New Clearbrook Fire Station	\$50,000	\$205,000	\$4,575,000						\$4,830,000
<i>including capital equipment requests</i>	New Fire Engine	\$750,000								\$750,000
	Reynolds Store Station Addition	\$173,400								\$173,400
	Reynolds Store Station Engine Replacement	\$625,000								\$625,000
	Reynolds Store Station Parking Updates		\$150,000							\$150,000
	Middletown Station Ambulance		\$300,000							\$300,000
	Middletown Station Building Renovation/Addition	\$1,960,000								\$1,960,000
	Star Tannery Station Pumper Replacement/Ambulance	\$536,000								\$536,000
	Stephens City Station Tower 11 Replacement	\$450,000	\$172,000	\$107,000	\$107,000	\$107,000	\$672,000			\$1,615,000
Unit 11-2	Stephens City Station Ambulance/Medic Unit Replacement		\$270,000							\$270,000
Unit 11-3	Stephens City Station Ambulance/Medic Unit Replacement					\$310,000				\$310,000
	Stephens City Station Expansion/Parking Improvements						\$675,000			\$675,000
1	Greenwood Station Ambulance Replacement	\$298,000								\$298,000
	Greenwood Station Parking Lot Repair/Upgrade		\$105,000							\$105,000
2	Greenwood Station Ambulance Replacement			\$310,000						\$310,000
3	Greenwood Station Ambulance Replacement				\$325,000					\$325,000
	<b>Total</b>	<b>\$4,842,400</b>	<b>\$1,202,000</b>	<b>\$4,992,000</b>	<b>\$432,000</b>	<b>\$417,000</b>	<b>\$1,347,000</b>	<b>0</b>		<b>\$13,232,400</b>
<b>Sheriffs Office</b>										
	Eight Bay Steel Building for Large Vehicles	\$320,000						\$320,000		\$320,000
	Replacement Law Enforcement Vehicles	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	continuous	\$5,000,000		\$5,000,000
	Firearms Training Simulator	\$100,000						\$100,000		\$100,000
	<b>Total</b>	<b>\$1,420,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>5,420,000</b>		<b>\$5,420,000</b>
<b>Communications</b>										
	Project 25 Pubic Safety Radio Network		20,981,973					20,981,973		\$20,981,973
	<b>Total</b>							<b>20,981,973</b>		<b>\$20,981,973</b>
<b>Total of All Categories</b>		<b>\$13,443,815</b>	<b>\$25,374,453</b>	<b>\$60,707,174</b>	<b>\$47,257,883</b>	<b>\$91,093,513</b>	<b>\$111,805,026</b>	<b>\$336,449,464</b>		<b>\$370,663,837</b>

Other Funding Sources:

E= Partial funding anticipated through development & revenue sources

TBD= To be Determined

		Contribution Per Fiscal Year					Long Range Comprehensive Plan Projects	County Contributions	Notes	Total Project Costs
	Projects - Ranked by Department	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027				
<b>Public Safety - Fire and Rescue, Sheriff's Office and Communications</b>										
<b>Fire &amp; Rescue</b>										
	Fire & Rescue Station 22			\$7,500,000				\$7,500,000		\$7,500,000
	Station 22 Apparatus			\$1,100,000			\$8,000,000	\$9,100,000		\$9,100,000
	Fire and Rescue Station 23						\$1,200,000	\$1,200,000		\$1,200,000
	Station 23 Apparatus									
<b>Capital Requests</b>	Capital Requests	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000		\$1,000,000		\$2,000,000
	<b>Total</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$8,800,000</b>	<b>\$200,000</b>	<b>\$200,000</b>		<b>\$9,200,000</b>	<b>18,800,000</b>	<b>\$19,800,000</b>
<b>Fire &amp; Rescue Company</b>										
<b>Capital Requests</b>										
<i>including capital equipment requests</i>	New Clearbrook Fire Station	\$50,000	\$205,000	\$4,575,000						\$4,830,000
	New Fire Engine	\$750,000								\$750,000
	Reynolds Store Station Addition	\$173,400								\$173,400
	Reynolds Store Station Engine Replacement	\$625,000								\$625,000
	Reynolds Store Station Parking Updates		\$150,000							\$150,000
	Middletown Station Ambulance		\$300,000							\$150,000
	Middletown Station Building Renovation/Addition	\$1,960,000								\$1,960,000
	Star Tannery Station Pumper Replacement/Ambulance	\$536,000								\$536,000
	Stephens City Station Tower 11 Replacement	\$450,000	\$172,000	\$107,000	\$107,000	\$107,000	\$672,000			\$1,615,000
Unit 11-2	Stephens City Station Ambulance/Medic Unit Replacement		\$270,000							\$270,000
Unit 11-3	Stephens City Station Ambulance/Medic Unit Replacement					\$310,000				\$310,000
	Stephens City Station Expansion/Parking Improvements						\$675,000			\$675,000
1	Greenwood Station Ambulance Replacement	\$298,000								\$298,000
	Greenwood Station Parking Lot Repair/Upgrade		\$105,000							\$105,000
2	Greenwood Station Ambulance Replacement			\$310,000						\$310,000
3	Greenwood Station Ambulance Replacement				\$325,000					\$325,000
	<b>Total</b>	<b>\$4,842,400</b>	<b>\$1,202,000</b>	<b>\$4,992,000</b>	<b>\$432,000</b>	<b>\$417,000</b>		<b>\$1,347,000</b>	<b>0</b>	<b>\$13,082,400</b>
<b>Sheriffs Office</b>										
	Eight Bay Steel Building for Large Vehicles	\$320,000						\$320,000		\$320,000
	Replacement Law Enforcement Vehicles	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	continuous	\$5,000,000		\$5,000,000
	Firearms Training Simulator	\$100,000						\$100,000		\$100,000
	<b>Total</b>	<b>\$1,420,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>5,420,000</b>		<b>\$5,420,000</b>
<b>Communications</b>										
	Project 25 Pubic Safety Radio Network		20,981,973						20,981,973	\$20,981,973
	<b>Total</b>								<b>20,981,973</b>	<b>\$20,981,973</b>
<b>Total of All Categories</b>		<b>\$13,443,815</b>	<b>\$25,374,453</b>	<b>\$60,707,174</b>	<b>\$47,217,627</b>	<b>\$91,093,513</b>		<b>\$111,805,026</b>	<b>\$323,905,944</b>	<b>\$376,573,581</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	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	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 FY 2027			
<b>Funded Priorities</b>	Route 277, Fairfax Pike, Widening and Safety Improvements (ph 1)	\$42,144,000						\$42,144,000	E	\$42,144,000
	Exit 313 Bridge Replacement and Capacity Improvements	\$36,593,000						\$36,593,000		\$36,593,000
	Renaissance Drive, Phase 2	\$4,434,150						\$4,434,150	E	\$4,434,150
	Route 277 right turn extension Warrior Drive	\$477,000						\$477,000		\$477,000
	Route 7 STARS Study Project	\$1,000,000						\$1,000,000		\$1,000,000
	Exit 317 Interchange Ramp Realignment	\$6,765,233						\$6,765,233		\$6,765,233
	Route 11 @ Old Charlestown Road Roundabout	\$5,167,722						\$5,167,722	E	\$5,167,722
<b>Unfunded Priorities</b>	Route 37 Engineering & Construction						\$811,125,000	\$811,125,000	E	\$811,125,000
	Route 277, Fairfax Pike, Widening and Safety Improvements (ph 2)						\$27,500,977	\$27,500,977	E	\$27,500,977
	Redbud Road Realignment						\$5,988,146	\$5,988,146	E	\$5,988,146
	Exit 317 Interchange Upgrade						\$35,000,000	\$35,000,000		\$35,000,000
	Widening of Route 11 North (ph 1)						\$30,656,329	\$30,656,329	E	\$30,656,329
	Brucetown/Hopewell Realign.						\$8,652,000	\$8,652,000	E	\$8,652,000
	Valley Mill Road Realignment West								E	TBD
	Route 7 Corridor Improvements Exit 315 to Greenwood						\$5,407,500	\$5,407,500		\$5,407,500
	Route 11 S Widening and Intersection Improvements from Winchester City Limits to Opequon Church Lane						\$3,568,950	\$3,568,950	E	\$3,568,950
	Widening of Route 11 North (ph2)						\$207,648,000	\$207,648,000	E	\$207,648,000
	Senseny Road Widening						\$72,460,500	\$72,460,500	E	\$72,460,500
	Senseny Road turn lanes/improvements Crestleigh Drive						\$2,756,288	\$2,756,288		\$2,756,288
	I-81 Exit 307 Relocation with 4 In connection to Double Church and Stephens City Bypass						\$253,347,290	\$253,347,290	E	\$253,347,290
	Warrior Drive Extension (south)including Brady Lane upgrade						\$50,830,500	\$50,830,500	E	\$50,830,500
	Channing Drive Extension						\$48,667,500	\$48,667,500	E	\$48,667,500
	Inverlee Way						\$29,524,950	\$29,524,950	E	\$29,524,950
	Warrior Drive Extension (Crosspointe south)						\$36,230,250	\$36,230,250	E	\$36,230,250
	Jubal Early Drive Extension and Interchange with Route 37								E	TBD
	Valley Mill Road Realignment East								E	TBD
	Eastern Road Plan Improvements						TBD	TBD	E	TBD
<b>Total</b>		<b>\$96,581,105</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,629,364,180</b>	<b>\$1,725,945,285</b>		<b>\$1,725,945,285</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									
Contribution Per Fiscal Year									
Projects - Ranked by Agency	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027+	County Contributions	Notes	Total Project Costs
	Ensuing Fiscal Year	Year 2	Year 3	Year 4	Year 5	Beyond Year 6+			
New Terminal	\$7,500,000	\$85,000						A,B,C	\$7,585,000
Taxiway "A" Relocation	\$3,680,000	\$3,650,000	\$ 4,444,444.00	\$4,444,444				A,B,C	\$16,218,888
Land Parcel 64-A-60 (Cooper)			\$200,000					A,B,C	\$200,000
Runway Protection Zone (RPZ) Land Services				\$150,000				A,B,C	\$150,000
Acquire Land/Easements				\$270,000	\$500,000			A,B,C	\$770,000
North Side Site Prep			\$500,000					A,B,C	\$500,000
North Side Access Road				\$700,000				A,B,C	\$700,000
Fuel Storage Facility					\$500,000			A,B,C	\$500,000
Master Plan Update					\$500,000			A,B,C	\$500,000
<b>Total</b>	<b>\$11,180,000</b>	<b>\$3,735,000</b>	<b>\$5,144,444</b>	<b>\$5,564,444</b>	<b>\$1,500,000</b>	<b>\$0</b>			<b>\$27,123,888</b>

A= Partial funding from VA Dept. of Aviation

B= Partial funding from FAA

C = Partial local funding (% split between Frederick County and Winchester based on Weldon Cooper figures)

\*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 - 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 580 students. As of October 31, 2021, the school has 641 students. Six 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:** \$18,300,000

**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.

**Construction Schedule:** FY 24-25

### PRIORITY 2 – 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 1,323 students serving grades 9-12. Several major areas need to be addressed in a renovation, including reorganization and addition of classrooms 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:** \$75,900,000

**Justification:** Sherando is 28 years old and will be at least 32 years old by the time we start to 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 size 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:** Beyond 2027

### **PRIORITY 3 – Fourth High School**

**Description:** The new high school project is proposed to serve students grades 9-12 with a program capacity of 1,250 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 will be designed for collaborative education, similar to 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:** \$100,500,000

**Justification:** This project will address expected growth in high school student enrollment in the school division over the next several years.

**Construction Schedule:** Beyond 2027

### **PRIORITY 4 – 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 and auxiliary building contains 65,120 square feet. The school has a program capacity of 509 students. Currently the building serves grades K-5. The building is in good condition; however, several major areas need to be addressed, including open classrooms space, ADA compliance, energy conservation, security, and upgrades of fire alarms, electrical, plumbing and mechanical systems.

**Capital Cost:** \$18,700,000

**Justification:** Apple Pie Ridge Elementary School is 47 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:** Beyond 2027

### **PRIORITY 5 – Onsite Traffic Safety Improvements at Sherando, Greenwood Mill, Frederick County Middle/Gainesboro, Indian Hollow, and Armel/Transportation**

**Description:** Traffic safety concerns exist at several school sites that require site improvements. These needs have been going unmet for some time, and so have been combined into a single capital project. Improvements include rearrangement of parking lots, bus loops and parent drop-off loops, additional site access, improvements to pedestrian facilities, and separation of bus and car traffic. We are currently working with a civil engineer to produce conceptual/ master plans and estimates for each school.

**Capital Cost:** TBD

**Justification:** This work is needed to provide sites that are as safe as possible. Currently we experience traffic backups/overloads, conflicting traffic flows, and difficulty entering state roads at these sites during arrival and dismissal. We are concerned that frustration with the current situations will lead some drivers or walkers to make bad decisions.

**Construction Schedule:** TBD

## 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:** \$3,789,065

**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:** Phase I – FY 23-24, Phase II and III – Beyond FY 27 (The construction schedule will follow VDOT funding. Phase I is funded through VDOT grant)

### PRIORITY 2 – Indoor Aquatic Facility

**Description:** The approximately 35,000 sf 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:** \$23,036,000

**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 swim and year-round recreational programming.

**Construction Schedule:** Completion in FY 24-25

### **PRIORITY 3 – Old Charlestown Road Park Development**

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

**Capital Cost:** \$3,570,000

**Justification:** The overall park design is informed by the Snowden Bridge (formerly Stephenson Village) rezoning proffer of 2003 and public input sessions in 2020. Plans are to provide rectangular fields and hard surface courts at this location. There are no public rectangular fields in the north of Frederick County.

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

### **PRIORITY 4– Recreation Center**

**Description:** The Recreation 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:** \$10,398,540

**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 adequately addressed Recreation Center needs for a time, 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 Recreation 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.

**Construction Schedule:** Completion in FY 24-25

### **PRIORITY 5-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:** \$990,000

**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 to meet the growing need for diamond field space and tournament opportunities.

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

### **PRIORITY 6-Clearbrook Park**

**Description:** This project implements the development vision for the NE area of Clearbrook Park. This vision is consistent with the Clearbrook Park Master Plan. Included are basketball, pickleball courts, and an access trail from the existing pool parking lot.

**Capital Cost:** \$420,000

**Justification:** This facility would provide recreation opportunities for the entire Frederick County area. It would provide amenities not readily available in northeastern Frederick County and provide a public pickleball complex for county residents.

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

### **PRIORITY 7 - Playground Replacement**

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

**Capital Cost:** \$1,102,500

**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 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 the newly installed Line Drive from Warrior Drive to Landgrant Lane, parking, restroom building, and dog park are elements of this phase.

**Capital Cost:** \$1,474,000

**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:** Completion in FY 24-25

### **PRIORITY 9 - 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:** \$2,597,044

**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 24-25

### **PRIORITY 10 – 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:** \$990,927

**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 23-24

### **PRIORITY 11 – Community Parks**

**Description:** The Community Park needs include continued development of existing parks, and the acquisition of approximately thirty-five acres for an additional park located in eastern Frederick County. Developed amenities will ultimately be determined by the specific site, however typical development may include:

Acquisition of Parkland; 35 acres

- Paved & Gravel Paths
- Playground
- Tot lot
- Shelters
- Lighted Basketball & Tennis courts

**Capital Cost:** \$2,303,700

**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 25-26

### **PRIORITY 12 – Neighborhood Parks**

**Description:** The Neighborhood project includes the continued development of existing and acquisition of six new 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 may include:

Acquisition of Parkland, 10 acres per site

- Paved Path
- Playground
- Shelter
- Hard Surface Courts

- Open Play Fields

**Capital Cost:** \$5,437,950

**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.

**Construction Schedule:** Completion in FY 25-26

### **PRIORITY 13 – Regional Park**

**Description:** Acquisition and development of parkland:

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

**Capital Cost:** \$15,830,000

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

**Construction Schedule:** Beyond FY27

### **PRIORITY 14 - Water Slide / Spray Ground / Building Renovation**

**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:** \$1,069,646

**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 increase interest in visiting the outdoor pool facilities.

**Construction Schedule:** Completion in FY 25-26

### **PRIORITY 15 – 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:** \$12,543,520

**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 FCPRD Community Survey.

**Construction Schedule:** Completion in FY 25-26

## 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 six years ago.

**Capital Cost:** \$1,941,483

**Justification:** This branch would serve citizens living in this growing area:

In 2020-21...319,761 (traditional) + 73,436 (electronic) = 393,197. Frederick County residents have 35,766 cards and averaged 58.7% of all materials (inactive users were purged 11/18 per state requirements). As of June 2021, there were 2000 new registrations; Frederick County residents, adults, and children, registered for library cards for the first time in 2020-2021. This population group in the Gainesboro district is not close to a library in the regional system. This new library would serve a sizeable population of Frederick County that is not being served. 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 180 square feet in which area groups can meet.

**Construction Schedule:** Completion in FY 26-27

### PRIORITY 2 - Frederick County Library Branch - Senseny/Greenwood

**Description:** Construction of a 10,000-sf branch library with expansion possible to 15,000-sf. 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 branch would serve citizens living in this growing area:

In 2020-21...319,761 (traditional) + 73,436 (electronic) = 393,197. Frederick County residents have 35,766 cards and averaged 58.7% of all materials (inactive users were purged 11/18 per state requirements). As of June 2021, there were 2000 new registrations; Frederick County residents, adults, and children, registered for library cards for the first time in 2020-2021. 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 800 square feet in which area groups can meet.

**Construction Schedule:** Long range planning objective – beyond FY27

### **PRIORITY 3 – 522 South Library**

**Description:** Construction of a 7,000-sf branch library with expansion possible to 10,000-sf. 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:** TBD

**Justification:** This branch would serve citizens living in this growing area:

In 2020-21...319,761 (traditional) + 73,436 (electronic) = 393,197. Frederick County residents have 35,766 cards and averaged 58.7% of all materials (inactive users were purged 11/18 per state requirements). As of June 2021, there were 2000 new registrations; Frederick County residents, adults and children, registered for library cards for the first time in 2020-2021. This population group in the Opequon district is not close to a library in the regional system. This new Library will serve an area of Frederick County largely unserved by our current branches. 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 sf in which area groups can meet.

**Construction Schedule:** Long range planning objective – beyond FY27

## County Administration and Public Works Project Priority List

### **PRIORITY 1 - Double Toll Gate Citizens' Convenience Site - Expansion**

**Description:** The project will expand refuse capacity in the growing Double Toll Gate, Lake Frederick, eastern Stephens City and Armel communities by adding a second trash compactor, poured concrete wall, and other site improvement, greatly enhancing traffic flow and efficiency. The current site is situated in Clarke County and is leased from the state at no cost. The facility also serves Clarke residents. Clarke shares in collection and disposal costs (21 percent) while Frederick maintains the site and provides labor. Construction and all site improvements will take place over a period of months while the site remains open.

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

**Justification:** A total of 8,525 vehicle trips were made to the facility during August 2021, a number consistent with 2019 figures which showed a hike of 11 percent over 2018. With an average of 253 trips recorded per day, Double Toll Gate is one of the county's busiest refuse and recycling sites. A second compactor would double capacity. Traffic flow would be enhanced and the need to close early on holidays and some weekends eliminated. This location has served the area well since the late 1970's. A recycling pad and new pavement were added in 2009. Additional upgrades are now necessary in order to meet the growing demands of solid waste management.

**Construction Schedule:** Completion in FY 24-25

### **PRIORITY 2– County Office Annex (Former Sunnyside Plaza Shopping Center)**

**Description:** This project consists of the renovation of an existing shopping center containing approximately 64,000 square feet located at the Intersection of Fox Drive and Route 522 in the County's Urban Development Area. This project will accommodate the relocation of certain departments (TBD) from the 107 N. Kent Street complex to this County office annex in order to address existing and future space needs of County departments.

**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 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 - Frederick County Fire & Rescue Station 22

**Description:** Construct a three-bay Fire and Rescue Station with availability for satellite Sheriff's office and County office space for Treasurer's, 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 15,000 sq ft facility to house an engine and ambulance with additional bay space for special service vehicle, brush truck, tanker and additional reserve and support vehicles. Those who would occupy the facility will determine the size of the satellite offices.

**Capital Cost:** \$7,500,000

**Justification:** Development near this area will necessitate the development of this station. The Lake Frederick 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 2,130 individual dwelling units using a mix of housing types.

**Construction Schedule:** Completion in FY 24-25.

### PRIORITY 1A - 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 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.

**Construction Schedule:** Completion in FY 24-25.

### PRIORITY 2 - Fire and Rescue Station 23 / Annex Facilities

**Description:** Construct three-bay fire station with availability for satellite offices for the Frederick County Sheriff's Office, Treasurer's Office, and Commissioner of Revenue, and BOS office with meeting room. An approximately

three-acre site will be needed to accommodate the facility. The fire station will be approximately a 15,000-sq ft facility to house an engine and ambulance. Those who would occupy the facility will determine the size of the satellite offices.

The project has historically been planned for and to be located at Crosspointe Center at the end of current Rt. 37 South, an area of proposed high-density residential development, and commercial development. Additional evaluation is needed given growth in other areas of the county.

**Capital Cost:** \$8,00,000

**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 27-28.

#### **PRIORITY 2A - Frederick County Fire and Rescue Station 23 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 23.

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

**Justification:** This fire and rescue apparatus will be assigned to Fire and Rescue Station 22 located on Fairfax Pike East 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.

**Construction Schedule:** Completion in FY 27-28.

#### **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.

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

**Justification:** The inclusion of this capital expenditure fund for the purpose of purchasing additional and replacement capital equipment AND 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**

#### **Clearbrook Volunteer Fire and Rescue Company – New Fire Station**

**Description:** At the present time the Clear Brook Vol. Fire & Rescue has outgrown the existing building with the equipment on hand, the call volume, the staffing of 24-hour personnel and the traffic at the existing location. We are proposing a new building to be located within the Clear Brooks first due area. The building needs to be approximately a 100x100 Administration and living with a 100x60 / 4 - Truck Bay all single level. The building will be used for day-to-day operations, administration, eating and sleeping facility of the current career staffing, volunteers, and future staffing. The estimated size of the structure is to be approximately 16,000 square feet. This upgrade of the facility will help to provide the needed space for Fire and EMS services for the community of Clear Brook. The estimated size of the structure is to be approximately 16,000 square feet. This upgrade of the facility will help to provide the needed space for Fire and EMS services for the community of Clear Brook.

**Capital Cost:** \$4,830,000

**Justification:** With the current facility and needed for upgrade in living quarters to accommodate the overnight personnel 24 hours and volunteers, this is of the utmost priority. At the current time we have outgrown our facility and with the equipment that we have to provide the service to our community for the health and property protection and with the current staffing needs and fund-raising operations our current facility is in need of upgrading/updating.

**Construction Schedule:** FY 24-25

#### **Clearbrook Volunteer Fire and Rescue Company – New Engine**

**Description:** Funding to support the purchase of a new fire engine for the Clear Brook Station. The new pumper would provide services to Clear Brook, Stephenson, Winchester, and numerous other areas located in Frederick County and immediately surrounding jurisdictions. This new piece of apparatus would replace a current pumper that has been in service since 2001. This piece of apparatus will be specifically designed to meet and exceed the needs of our ever changing and rapidly growing community.

This vehicle will be utilized to supply members, both career and volunteer, with a safe means of transport to and from emergency incidents and other necessary tasks. A new pumper would also bring necessary hose, water, and other firefighting equipment to the scene of various emergency incidents.

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

**Justification:** As stated above, this unit would replace a 2001 fire engine. This engine, identified as Wagon 13, is still running as a front-line piece of fire apparatus. According to the National Fire Protection Association (NFPA) a front-line piece of apparatus should strongly be considered being replaced after 15 years and moved to a “reserve” status. This puts Wagon 13 approximately 6 years over its suggested first-in-service lifetime. Furthermore, the NFPA goes on to state that after 20 years the apparatus should be retired. Currently Wagon 13 is approaching 21 years old. This means that Wagon 13 should be retired as soon as possible. Unfortunately, fire and rescue apparatus are complicated machines with a multitude of intricate systems to allow them to perform as desired. This causes these units to malfunction more regularly and need to be maintained more often than the typical vehicle. Clear Brook Volunteer Fire and Rescue Inc. strives to keep a constant service to our community. This means that we must maintain two pieces of fire apparatus at all times in case of the event one must be pulled out of service for repairs or preventative maintenance. We are unable to remove the Wagon from service until we get a replacement as this would put a strain on our department, and it would hinder our abilities to provide the best service we can to our citizens.

**Construction Schedule:** FY 22-23

### **Reynolds Store Volunteer Fire and Rescue Company – Building Addition**

**Description:** Proposed addition to the existing kitchen of Station 20. The proposed 700 sf would be added to the northeast side of the existing kitchen. The new area would allow for more workspace, efficiency, and allow the addition of new and improved equipment. The addition would also allow more people to work in the kitchen without creating a safety hazard. A 200 sf addition is also proposed for the southwest side of the station to accommodate a gear washer.

**Capital Cost:** \$116,400

**Justification:** The kitchen area at Station 20 is small and inefficient. The proposed addition would allow for approximately 10 additional kitchen staff and new equipment which would improve safety and efficiency. The gear washroom is needed to house a new gear washer.

**Construction Schedule:** FY 22-23

### **Reynolds Store Volunteer Fire and Rescue Company – Engine 20 Replacement**

**Description:** Replacement of the existing engine 20.

**Capital Cost:** \$625,000

**Justification:** The current engine is a 1995 model and has become outdated and experiences numerous breakdowns. Parts are difficult to obtain and often modifications are needed to get the engine operating again.

**Construction Schedule:** FY 22-23

### **Reynolds Store Station – Parking Lot Restoration/Entrance**

**Description:** Repaving the existing asphalt entrance and parking lot and the addition of a second entrance approximately 250' south of the current entrance which would connect to the existing lot.

**Capital Cost:** \$150,000

**Justification:** The existing pavement for the Station 20 lot is in poor condition, the asphalt is cracked, and potholes are forming. The second entrance would help with ingress and egress to the facility during fundraising events.

**Construction Schedule:** FY 23-24

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

**Description:** Demolish original building and 1st addition to the station. Build back in that location tied back into the 3rd addition. This addition would be designed to provide additional sleeping, bathroom, and office areas for future growth in our system. Currently we are almost at max capacity in the bunk rooms for volunteers and staff. And taller apparatus bay and entry doors.

**Capital Cost:** \$1,960,000

**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 system members. Currently we are maxed on room for sleeping and office space. Our one apparatus bay area has small doors and short ceiling that restricts what can be parked in that section.

**Construction Schedule:** FY 22-23

### **Middletown Volunteer Fire and Rescue Company – New Ambulance**

**Description:** New ambulance to replace a 2012 Dodge Horton unit

**Capital Cost:** \$330,000

**Justification:** This new unit would replace an older unit which currently the only ambulance and the station has seen an increase in call volume.

**Construction Schedule:** FY 23-24

### **Star Tannery Volunteer Fire and Rescue Company – Replacement Pumper**

**Description:** Replacement of a 27-year-old unit with a Piece Saber Pumper GVW – 1250 GPM/1,000 gallons of water.

**Capital Cost:** \$536,000

**Justification:** The current unit is outdated and needs to be replaced.

**Construction Schedule:** FY 23-24

### **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 NFPA 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. The contract is currently in place for the construction of this unit.

**Capital Cost:** \$1,615,000

**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." This unit has been out of service for approximately eight months over the last two years.

**Construction Schedule:** Beyond FY 27

### **Stephens City Volunteer Fire and Rescue Company – Medic Unit Replacement (type 1) UNIT 11-2**

**Description:** Replacement of a 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 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:** \$270,000

**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.

**Construction Schedule:** FY 23-24

### **Stephens City Volunteer Fire and Rescue Company – Ambulance/Medic Unit Replacement (Type 1) Existing 11-3**

**Description:** Replacement of a 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:** \$310,000

**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.

**Construction Schedule:** FY 26-27

### **Stephens City Volunteer Fire and Rescue Company – Building Expansion and Parking Lot Improvements**

**Description:** Addition of "Living Quarters and Office space (Approx. 3,000 sf ), off the back of the current living space. Both levels and matching the existing roof line and construction. Installation of concrete curb and gutter and asphalt pavement with 3" HMA. Overlay existing parking lot with 1" HMA. Replacement of front concrete ramp to current VDOT concrete apron/loading dock specifications.

**Capital Cost:** \$675,000

**Justification:** Additional space will be required for living conditions as additional personnel are added to the station. The loose gravel in the existing parking lot is a safety concern for slips and falls. The existing concrete ramp is a safety concern for trips and falls at existing concrete cracks.

**Construction Schedule:** Beyond FY 27

### **Greenwood Volunteer Fire and Rescue Company – Ambulance Replacement - 1**

**Description:** Replacement of a 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:** \$298,000

**Justification:** Greenwood is one of the busiest stations in the County responding to approximately 2,000 EMS calls per year.

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.

**Construction Schedule:** FY 22-23



## **Greenwood Volunteer Fire and Rescue Company – Parking Repairs and Upgrades**

**Description:** Refurbish the Parking Lot:

Crack Repairs: a significant portion of the paving immediately in front of the truck bays exhibits moderate to significant cracking and "alligatoring". This area is approximately 11,000 sf, or 1,225 sq. yds. Seal coating: application of 2 coats of a coal tar based, latex fortified, abrasive filled sealer to all asphalt pavement. Pavement Markings: repaint all existing pavement markings at this site including parking spaces, (8) handicap emblems with (blue) box backgrounds, all painted "no parking" cross-hatched areas, etc. We will also reset, realign, and reanchor the existing concrete.

**Capital Cost:** \$105,000

**Justification:** The existing front apron is deteriorating due to the weight of the equipment and the right-of-way draining under the apron. The remainder of the parking lot needs to be stabilized and resurfaced.

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

## **Greenwood Volunteer Fire and Rescue Company – Ambulance Replacement - 2**

**Description:** Replacement of a 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:** \$310,000

**Justification:** Greenwood is one of the busiest stations in the County responding to approximately 2,000 EMS calls per year.

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.

**Construction Schedule:** FY 24-25

### **Greenwood Volunteer Fire and Rescue Company – Ambulance Replacement - 3**

**Description:** Replacement of a 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:** \$325,000

**Justification:** Greenwood is one of the busiest stations in the County responding to approximately 2,000 EMS calls per year.

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.

**Construction Schedule:** FY 25-26

## Sheriff's Office Project Priority List

### PRIORITY 1 – 8 Bay Steel Building for Large Vehicles

**Description:** Construct an 8-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 Sheriff's Office Impound Lot. The building will allow for the maintenance, storage, security of all the large, specialized vehicles that are required for the special operations teams. This building size will be 4,256 square feet and will require 13,500 square feet to build. This will be an 8-bay, 4-garage door equipment storage building with a 35x76 front 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.

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

### PRIORITY 2 – Replacement Law Enforcement Vehicles

**Description:** This project is to indicate 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 cost effectiveness for repairs to failing vehicles.

**Capital Cost:** \$5,200,000

**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. This schedule would drop the cost of purchasing 46 vehicles per year to approximately 25 per year on a rotating basis.

**Construction Schedule:** Multi-year objective

### **PRIORITY 3 – Firearms Simulated Training System**

**Description:** This project will be used to do use of force training for the entire Sheriff's Office and selected members of the public. The simulated trainer does firearms training, ASP training, pepper spray training, taser training and less lethal training. The trainer is used to simulate real life situations so that deputies use the appropriate amount of force, hopefully lowering the Sheriff's Office civil liability in use of force situations. The simulator can also be used to demonstrate the complexity of use of force situations to the public.

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

**Justification:** Provide real life training to all deputies and reduce the civil liability the Sheriff's Office could face in excessive use of force cases.

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

### **Public Safety and Communications**

#### **PRIORITY 1 – Project 25 Public Safety Radio Network**

**Description:** Purchase, construction, and deployment of Association of Public-Safety Communications Officials (APCO) International Project 25 (P25) radio communications system to support mission-critical public safety communications within the County. This system will provide radio and paging communications for the Frederick County Sheriff's Department, Frederick County Fire & Rescue, volunteer fire & rescue companies, and the Department of Public Safety Communications.

**Capital Cost:** \$20,981,973

**Justification:** This Association of Public-Safety Communications Officials (APCO) International Project 25 (P25) radio communications system is needed to support mission-critical public safety communications within the County.

**Construction Schedule:** 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:** \$42,144,000

**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 2 – Exit 313 Bridge Replacement and Capacity Improvements**

**Description:** Replace the structurally deficient bridge at Exit 313 and add limited capacity improvements.

**Capital Cost:** \$36,593,000

**Justification:** The bridge on Route 17/50/522 (Millwood Pike) Bridge over Interstate 81 at Exit 313 is reaching the end of its service life and needs to be replaced. The new bridge will feature design elements that will accommodate future improvements to the Route 17/50/522 corridor and future improvements to I-81. The interchange configuration will not change with this project.

**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:** \$4,434,150

**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 - 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:** \$477,000

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

**Construction Schedule:** TBD

#### **PRIORITY 5 – Route 7 STARS Study Project**

**Description:** Consolidate turning movements at Blossom Drive/Millbrook Drive and Route 7 as well as at First Woods Drive/Greenwood Road and Route 7 to reduce conflicts and improve efficiency.

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

**Justification:** This improvement would be a significant safety upgrade to these intersections.

**Construction Schedule:** TBD

#### **PRIORITY 6 -Exit 317 Interchange Ramp Realignment Project**

**Description:** Relocate the existing northbound exit ramp at I-81 Exit 317 and Route 11 to the current location of the Redbud Road intersection. This project will include turn lane upgrades on to the exit ramp from Route 11 North to I-81 northbound and removal of the signal that will be made redundant by the realignment.

**Capital Cost:** \$6,765,233

**Justification:** This improvement will upgrade traffic flow and safety through the interchange area.

**Construction Schedule:** TBD

#### **PRIORITY 7 – Route 11 @ Old Charlestown Road Roundabout installation**

**Description:** Upgrade the temporary signal that is currently in place to the roundabout design that VDOT has identified for this intersection.

**Capital Cost:** \$5,167,722

**Justification:** This improvement will improve traffic flow and safety at this intersection while minimizing the impact to traffic throughput north and south on Route 11.

**Construction Schedule:** TBD

### ***Unfunded Priorities***

#### **PRIORITY 8 - 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:** \$811,125,000

**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 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:** \$27,500,977

**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**

**Description:** The funding of the Exit 317 Ramp realignment makes this realignment critical for trips that currently use Redbud Road which total nearly 3,000 vehicles per day. VDOT has made it a requirement for the ramp realignment to move forward.

**Capital Cost:** \$5,988,146

**Justification:** This project is required to be underway in conjunction with or prior to the Exit 317 Ramp realignment and the Board has submitted a revenue sharing application to move it forward. The application is currently under review.

**Construction Schedule:** TBD

#### **PRIORITY 11- Exit 317 Interchange Upgrade**

**Description:** The funded ramp realignment project is one component of the overall needed upgrade to the interchange at I-81 Exit 317. This project calls for the full upgrade of the interchange.

**Capital Cost:** \$35,000,000

**Justification:** This is a transportation improvement that will have significant impact on Eastern Frederick County and is identified in the Eastern Road Plan. Staff is currently working with the MPO and the Office of Intermodal Planning and Investment on a pipeline study to continue to refine the application to increase its competitiveness for state funds.

**Construction Schedule:** TBD

#### **PRIORITY 12 - Route 11 North Widening to 6 Lanes from Snowden Bridge Boulevard to Old Charlestown Road (Ph 1)**

**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:** \$30,656,329

**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 13 - 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:** \$8,652,000

**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 14- Valley Mill Road Realignment (West)**

**Description:** This project would reduce or remove the intersection of Valley Mill Road and Route 7 and realign the roadway to a new intersection with Route 7 at Gateway Drive.

**Capital Cost:** TBD

**Justification:** The interchange area at I-81 Exit 315 where Valley Mill Road intersects is currently one of the most congested areas in Frederick County. This improvement would result in better spacing and fewer conflicting movements through the interchange area.

**Construction Schedule:** TBD

**PRIORITY 15 – Route 7 Corridor Improvements from Exit 315 to Greenwood Road**

**Description:** Spot improvements throughout the corridor to be determined through ongoing study in coordination with VDOT.

**Capital Cost:** \$5,407,500

**Justification:** The County is engaged in a STARS study with VDOT through the MPO. This study will be used to identify key spot improvements to be addressed under this item.

**Construction Schedule:** TBD

**PRIORITY 16 – Route 11 S Widening & Intersection Improvements from Winchester City Limits to Opequon Church Lane**

**Description:** Route 11 S, NB side widening and improvements to the intersection of Shawnee Drive at Route 11 and Opequon Church Lane at Route 11.

**Capital Cost:** \$3,568,950

**Justification:** Transportation study conducted in conjunction with the MPO and VDOT determined that these improvements would significantly improve congestion and safety in the area. In addition, this improvement would promote the Comprehensive Plan vision for this area.

**Construction Schedule:** TBD

**PRIORITY 17- Widening of Route 11 North to the West Virginia State Line (Ph 2)**

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

**Capital Cost:** \$207,648,000

**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 18 - 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:** \$72,460,500

**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 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 Drive and potentially a full signalization of the intersection.

**Capital Cost:** \$2,756,288

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

**Construction Schedule:** TBD

### **PRIORITY 20- Interstate 81, Exit 307 Relocation**

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

**Capital Cost:** \$253,347,290

**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 21- Warrior Drive Extension (south) including Brandy Lane Upgrade**

**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:** \$50,830,500

**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 22 - 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:** \$48,667,500

**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 23 - 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:** \$29,524,950

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

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

**Capital Cost:** \$36,230,250

**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 25- Jubal Early Drive Extension and Interchange with Route 37**

**Description:** This project would extend Jubal Early Drive as a 4-lane facility from Winchester to an interchange with Route 37. This would include a partial realignment of Merrimans Lane.

**Capital Cost:** TBD

**Justification:** This project would add additional east/west connectivity as well as reducing traffic loads at the Route 50 and Cedar Creek Grade interchanges with Route 37.

**Construction Schedule:** TBD

**PRIORITY 26- Valley Mill Road Realignment (East)**

**Description:** This project would reduce or remove the intersection of Valley Mill Road and Route 7 to the east and realign the roadway to a new intersection with Route 7 at Future Route 37.

**Capital Cost:** TBD

**Justification:** As the road network and approved development in this area develops this new connection will provide a much more efficient and safer network for the community.

**Construction Schedule:** TBD

**PRIORITY 27 - 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 Airport Terminal

**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:** \$7,585,000

**Justification:** The project will construct a new terminal building to accommodate a relocated taxiway and aircraft parking apron and address numerous building systems in need of rehabilitation/replacement.

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

### PRIORITY 2 – Taxiway “A” Relocation

**Description:** The relocation of Taxiway A is part of the overall goal to meet Federal Aviation Administration (FAA) airport standards to maintain CAT I Instrument Landing System (ILS) weather minimums and meet airport design criteria for Group III aircraft.

**Capital Cost:** \$16,218,888

**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 will be completed in phases.

**Construction Schedule:** Completion in FY 25-26

### PRIORITY 3 – 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 24-25

#### **PRIORITY 4 – Runway Protection Zone (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:** \$150,000

**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:** Completion in FY 25-26

#### **PRIORITY 5 – Acquire Land/Easements**

**Description:** The airport seeks to acquire easements scoped for purchase in the "RPZ Land Services" project; identified as PE2, PE3, PE4, and PE5 on the airport property map.

**Capital Cost:** \$770,000

**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 protect the airport from consequences that may result from obstructions or incompatible land uses in these areas.

**Construction Schedule:** Completion in FY 26-27

#### **PRIORITY 6 – North Side Site Prep**

**Description:** Site preparation (e.g., grading, utilities) for future aeronautical development and commercial entrance onto airport property off Coverstone Drive extended.

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

**Justification:** The area on the north side of the airport has been through the NEPA environmental approval process. It is the most attractive area on the airport for build-to-suit facilities. The project will make it more attractive to private investment and is in keeping with the airport's business and marketing plans.

**Construction Schedule:** Completion in FY 26-27

### **PRIORITY 7 – 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 to prevent unauthorized access to runways and taxiways.

**Construction Schedule:** Completion in FY 25-26

### **PRIORITY 8 –Fuel Storage Facility Renovation**

**Description:** The current facility is in need of renovation to continue to meet DEQ and/or EPA requirements.

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

**Justification:** The fuel storage facility has not undergone major maintenance since it was installed. This project is to renovate the facility to ensure it continues to meet DEQ and EPA requirements.

**Construction Schedule:** Completion in FY 26-27

### **PRIORITY 9 –Master Plan Update**

**Description:** An airport master plan is a comprehensive study of an airport and usually describes the short-, medium-, and long-term development plans to meet future aviation demand. An airport master planning effort will be conducted in accordance with FAA Advisory Circular AC 150/5070-6B.

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

**Justification:** The airport's master plan has not been substantially revised since 2005. An airport master plan should be updated periodically, as it captures a 20-year planning horizon.

**Construction Schedule:** Completion in FY 26-27