

**VI. PUBLIC FACILITIES**

- **FREDERICK COUNTY GOVERNMENT SERVICES**
- **FREDERICK COUNTY PUBLIC SCHOOLS**
- **FREDERICK COUNTY PARKS AND RECREATION**
- **HANDLEY REGIONAL LIBRARY**
- **FREDERICK COUNTY EMERGENCY SERVICES**
- **WINCHESTER REGIONAL AIRPORT**
- **FREDERICK COUNTY SANITATION AUTHORITY**



### **PUBLIC FACILITIES**

#### **INTRODUCTION**

This Chapter addresses the following County public facility providers and their focus and direction for the future.

- **FREDERICK COUNTY GOVERNMENT SERVICES**
- **FREDERICK COUNTY PUBLIC SCHOOLS (FCPS)**
- **FREDERICK COUNTY PARKS AND RECREATION**
- **HANDLEY REGIONAL LIBRARY**
- **FREDERICK COUNTY EMERGENCY SERVICES**
- **WINCHESTER REGIONAL AIRPORT**
- **FREDERICK COUNTY SANITATION AUTHORITY (FCSA)**

#### **FOCUS FOR THE FUTURE**

Creating a sense of community through the principles of Neighborhood Design is supported through the policies contained within the Urban Area Study completed in 2006. By directing growth to the Urban Areas, through the UDA, the County can better direct services and community facilities to the citizens providing efficiency in community facilities including schools, parks, libraries and emergency services. At the same time, the County can better protect its Rural Areas and natural and cultural resources.

#### **COMMUNITY BENEFITS**

Public facilities, especially schools, parks and libraries, can provide focal points for walkable, mixed-use neighborhoods, intertwined with variety of housing, retail, and employment opportunities. Focusing development around walkable centers allows people to work, go to school, live, shop, and play in locations that are near each other. The location of public facilities and infrastructure and the thoughtful provisions for public spaces, recreational areas, and open spaces are essential to the creation of more walkable, livable communities.

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Collaboration between County agencies should continue to be a priority goal in order to ensure that the investment made in the County's community facilities will continue to provide the best possible environment for positive and vibrant community growth.

### **FREDERICK COUNTY GOVERNMENT SERVICES**

#### **FOCUS FOR THE FUTURE**

Frederick County government shall continue to provide accessible, effective, and high quality government services to its citizens, business owners, and community partners. Community facilities providing administrative and judicial services shall be located in urban areas which may include the County's Urban Development Area, Sewer and Water Service Area, and/or areas identified as future Urban Centers. Advances in technology shall be embraced to further advance government services. In addition, a variety of communication methods shall be used to engage the community and promote the accessibility of those government services.

The County shall strive to improve access to government services through a variety of creative and proactive approaches. This may include building new community facilities in urban areas/urban centers and through the use of technology that connects the County with the Community.

#### **COMMUNITY BENEFITS**

Projects and proposals aimed at enhancing the County's ability to provide accessible, effective, and high quality government services, either by Frederick County or by private entities through allowable programs such as the Public-Private Education Facilities & Infrastructure Act (PPEA), should be considered as being consistent with the Comprehensive Plan of the County. Such community facilities shall generally be included in the Capital Improvement Plan.

#### **GOALS/STRATEGIES**

**GOAL:**            **IMPROVE SERVICES TO CITIZENS THROUGH THE EFFICIENT PROVISION OF COMMUNITY FACILITIES.**

**STRATEGIES:**

- County government services should be provided as needed to provide citizens, business owners, and community partners with accessible government services.

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- Community facilities should generally be located within urban areas which may include the County's Urban Development Area, Sewer and Water Service Area, and/or and areas identified as future Urban Centers.
- Community facilities should serve as community focal points.
- Collaboration between County agencies should continue to be a priority goal as to provide the best possible environment for positive and vibrant community growth.

## **FREDERICK COUNTY PUBLIC SCHOOLS (FCPS)**

### **CURRENT CONDITIONS**

Frederick County Public Schools (FCPS) is the 22th largest of 134 school systems in the Commonwealth of Virginia, with just over 13,246 students in the 2016-2017 school year. With over 2,100 full time employees, Frederick County Public Schools (FCPS) is the third largest employer in the Winchester-Frederick County area. The school district has 11 elementary schools, 4 middle schools, 3 high schools, 1 career & technical center, and participates in Northwest Regional Educational Programs, an alternative education center. Support facilities include the administration building, the maintenance/warehouse facility, the Transportation Facility, the Smithfield facility, and Support Facilities West. There are a total of 25 schools and support facilities operated by FCPS. In the past ten years, FCPS has constructed 4 schools plus the Transportation Facility and 5 school additions/renovations.

Residential growth continues to impact the school system as additional homes are built throughout the County. During the past several decades, the total student enrollment in the school division has increased steadily. Student enrollment has grown by 650 students in the past ten years. Eighty-one percent of the class of 2016 planned to continue their education. FCPS on-time graduation rate for the 2015-16 school year was 93.5%, compared to the state's 91.3%.

### **FOCUS FOR THE FUTURE**

The establishment of new community facilities creates opportunities to improve the quality of the surrounding community. Schools in particular through the incorporation of Neighborhood Design can serve as the focal point for Neighborhood Villages and Urban Centers within the UDA and Rural Community Centers in the Rural Areas. Opportunities to co-locate schools with other community facilities should be sought. Several schools currently have Parks & Recreation Basic Rec programs within them. This program should be considered for new schools. Other Parks & Recreation programs could be co-located with schools.

Schools should be located in existing or future neighborhoods, within walking distance and be accessible to residents. They act as neighborhood anchors and community centers. Well planned school sites, by encouraging walking and bicycling, can improve student health and academic performance and reduce traffic around schools. A good example of community-centered school planning can be found around Greenwood Mill Elementary School, the County's 11<sup>th</sup> elementary school.

### **COMMUNITY BENEFITS**

It is the mission of Frederick County Public Schools' (FCPS) is to ensure all students an excellent education. The school system works hard to meet the needs of all students, from those who will go to college to those who are challenged to master the most basic of life skills. FCPS fosters a culture of success and collaboration as well as a desire to constantly improve.

Frederick County Public Schools strives to be a premier school division in the Commonwealth of Virginia. Teachers and staff maintain high expectations for students so the children of Frederick County are equipped with the necessary knowledge, skills and competencies to be successful in their chosen career and life goals. There are specific programs offered by FCPS to meet the varying needs of special groups of students. In collaboration with the City of Winchester and Clarke County, FCPS provides an education for children who are emotionally disturbed or who have multiple disabilities. FCPS offers a variety of trade and industrial programs and health occupations programs designed to meet the needs of students who wish to improve their employability skills and explore different career possibilities. FCPS provides enriched and expanded instruction for students who qualify for Gifted Education, including the Mountain Vista Governor's School. FCPS also participates in two summer programs: Performing and Visual Arts Northwest (PAVAN), a regional summer arts and culture program, and Blue Ridge Environmental Studies Regional Summer Governor's School, which offers gifted students opportunities to work on real problems in environmental management.

### **GOALS/STRATEGIES**

Each local school board in Virginia is required by State Code to adopt a division wide comprehensive plan. Accordingly, the Frederick County Public Schools Division Comprehensive Plan is the document that governs the future direction of FCPS. Long-range school planning documents that are developed under the umbrella of the Division Comprehensive Plan include curriculum improvement plans, school improvement plans, a technology plan, enrollment projections, a capital improvement plan, and a staffing projection plan. The following policies include excerpts paraphrased from the FCPS Division Comprehensive Plan 2014-20. Please refer to that plan for the official version of these policies:

**GOALS:**        **CONSIDER THE SURROUNDING NEIGHBORHOOD VILLAGES, URBAN CENTERS, AND RURAL COMMUNITIES; SITE LOCATION, SITE SUITABILITY, PROGRAM DESIGN, AND THE NEEDS OF OTHER AGENCIES IN LOCATING NEW FACILITIES.**

### **STRATEGIES:**

- In evaluating potential school facility locations, consider the role of the site in building diverse, walkable communities in the UDA.

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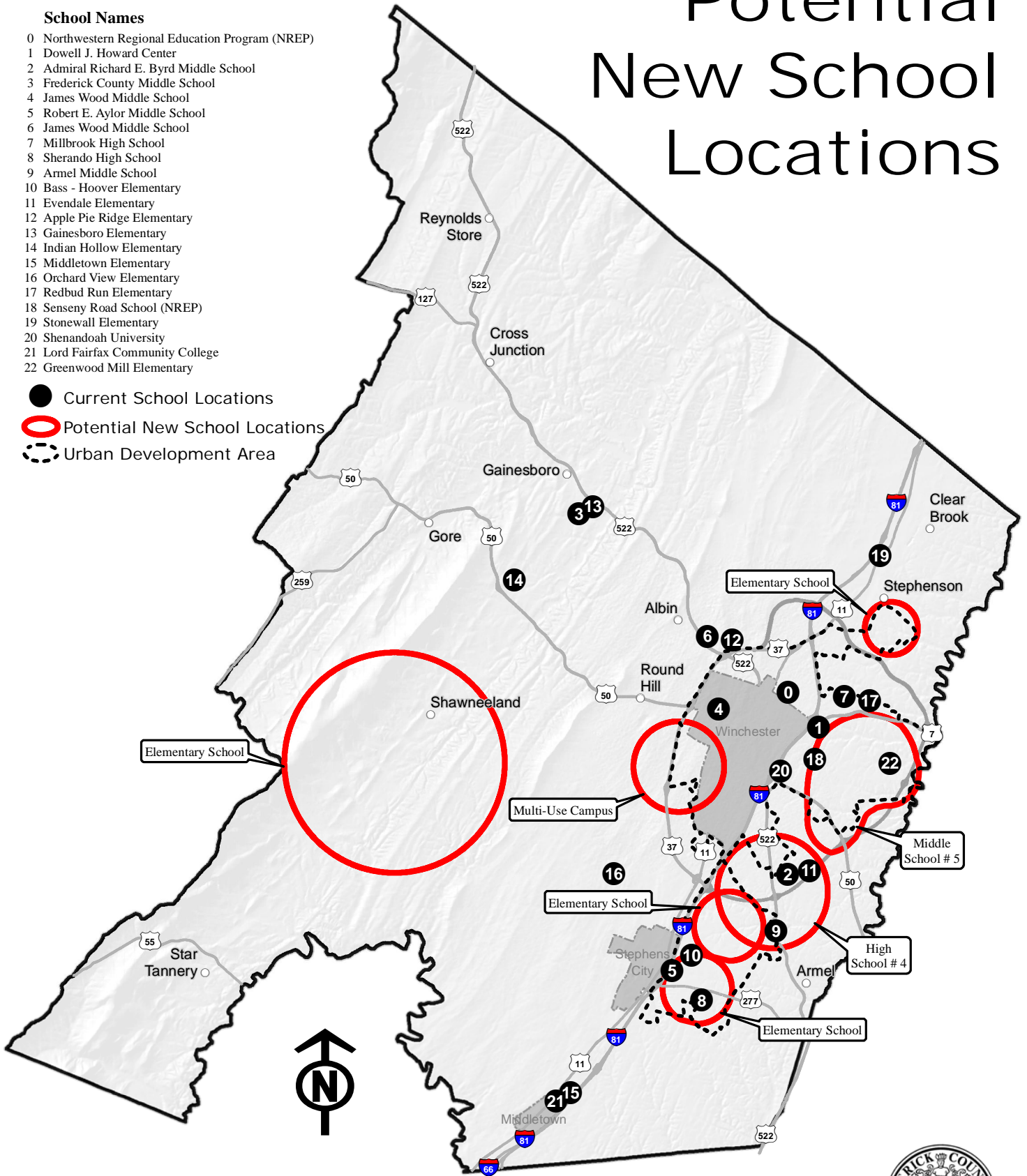
- In evaluating potential school facility locations, consider each location relative to arterial roads, planned roadways, the SWSA, the UDA, surrounding neighborhoods, floodplains, Civil War battlefields, and Agricultural and Forestal Districts. Also consider surrounding land uses, and potential environmental hazards.
- In evaluating individual candidate sites, consider each site's zoning, planned land use, topography relative to program requirements, historical features, water features, wetlands, potential environmental hazards, geology, soil suitability, and tree cover. Also consider constraints contained in the site's deed and plat and the potential for the presence of rare, threatened, and endangered species.
- Purchase sites that are suitable for co-locating school facilities with facilities other agencies have identified in their CIP or other studies if doing so does not interfere with FCPS' educational mission and is a responsible use of public funds. Future school sites have the potential to be collocated with future fire and rescue stations, parks, community centers, libraries, convenience sites, and satellite offices for several County Departments. Additionally, future school sites could become part of the network of properties needed to execute the Eastern Road Plan.

# Potential New School Locations

## School Names

- 0 Northwestern Regional Education Program (NREP)
- 1 Dowell J. Howard Center
- 2 Admiral Richard E. Byrd Middle School
- 3 Frederick County Middle School
- 4 James Wood Middle School
- 5 Robert E. Aylor Middle School
- 6 James Wood Middle School
- 7 Millbrook High School
- 8 Sherando High School
- 9 Armel Middle School
- 10 Bass - Hoover Elementary
- 11 Evendale Elementary
- 12 Apple Pie Ridge Elementary
- 13 Gainesboro Elementary
- 14 Indian Hollow Elementary
- 15 Middletown Elementary
- 16 Orchard View Elementary
- 17 Redbud Run Elementary
- 18 Senseny Road School (NREP)
- 19 Stonewall Elementary
- 20 Shenandoah University
- 21 Lord Fairfax Community College
- 22 Greenwood Mill Elementary

- Current School Locations
- Potential New School Locations
- ⋯ Urban Development Area





## **FREDERICK COUNTY PARKS AND RECREATION**

### **CURRENT CONDITIONS**

#### *Facilities*

There are five classifications of parks including Mini, Neighborhood, Community, District Parks and Greenways. The classification depends on the size, service area, purpose, character, and location. The County currently owns and operates two district, one community and two neighborhood parks. Additionally, one community park is planned adjacent to the Snowden Bridge development where the County has taken possession of 25 acres of land.

The two district parks currently serve the County's population with active and passive recreational programs and facilities. Clearbrook Park, located five miles north of Winchester on Route 11, consisting of approximately 55 acres (44 which are owned by the County) and Sherando Park, located two miles east of Stephens City on Route 277, consisting of approximately 334 acres. Rose Hill Park, a public park located 1/3 mile south of the intersection of Cedar Creek Grade and Jones Road, offers visitors the opportunity to enjoy the historic and scenic features of the museum of the Shenandoah Valley's Rose Hill Farm. Two neighborhood parks include space at the Reynolds Store Fire Company, and the Frederick Heights subdivision near Senseny Road. These neighborhood parks consist primarily of playground equipment for young children. Master development plans were adopted for both Clearbrook and Sherando Parks which establish goals for each park, identify unmet recreational needs, provide unified facility plans, and propose a development program for each park.

### **FOCUS FOR THE FUTURE**

In order to meet the future service demands on the County's two district parks, the Parks and Recreation Department intends to continue implementing the improvements adopted on the Master Plans and in the Department Strategic Plan. Additionally, in support of Neighborhood Design, new parks and usable open spaces should be located within the UDA, near or at the center of Neighborhood Villages and Urban Centers or in Rural Community Centers in the Rural Area to help create more walkable, livable communities. The construction of additional trails throughout the Community is also important. Additional trails would provide residents with the ability to travel safely from their homes to schools, stores, and work or recreation areas without having to share roadways with vehicle traffic.

Frederick County is fortunate to have multiple entities providing publicly accessible land citizens can use for recreation and leisure purposes. Frederick County currently manages 431 acres of park land with almost half of those acres yet to be developed for active and passive recreation purposes. Additionally thousands of acres of publically accessible land is provided by Federal, State, school system and non-profit entities within the borders of Frederick

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County, and adjoining jurisdictions allow the use of their facilities for County residents. In combination these publically accessible lands provide an outline of current conditions from which remaining needs are determined.

### **COMMUNITY BENEFITS**

The Frederick County Parks and Recreation Department is building a sense of community through people, parks, and recreational opportunities benefitting all residents. Parks and recreation activities stimulate economic activity and property values are increased by proximity to parks and through the added quality of life and sense of community. Families and organizations alike look to Frederick County Parks and Recreation to meet their leisure needs. Approximately 1.5 million recreational contact hours for youth, senior, and family programs are provided through programs offered by or facilitated through Frederick County Parks and Recreation with nearly two-thirds of Frederick County households reporting they use Parks and Recreation services and facilities in the past year. Nearly ½ million visits are counted at the two District Parks on an annual basis.

### **GOALS/STRATEGIES**

**GOAL:**     **CONTRIBUTE TO THE PHYSICAL, MENTAL, AND CULTURAL NEEDS OF THE COMMUNITY; ITS ECONOMIC AND SOCIAL WELL-BEING, AND ITS SENSE OF CIVIC PRIDE AND SOCIAL RESPONSIBILITY THROUGH THE IMPLEMENTATION OF AN INTEGRATED PLAN FOR RECREATION PROGRAMS AND PARK FACILITIES.**

**STRATEGIES:**

- Maintain a County-wide recreation plan which identifies recreational, park, trail, bikeway and open space needs.
- Identify recreation needs associated with the Rural Community Centers.
- Continue to utilize State and Federal grants and loans for financing and programming County recreational needs and especially for major capital projects.
- Continue to expand our cooperative relationship with the Frederick County School Board in jointly meeting identified County recreational needs.
- Review land development regulations to ensure that appropriate standards are provided for open space recreational facilities in new developments.

**GOAL:**     **TO HAVE EVERY RESIDENT OF FREDERICK COUNTY'S URBAN DEVELOPMENT AREA (UDA) WITHIN WALKING OR BIKING DISTANCE OF A RECREATION AREA.**

## PUBLIC FACILITIES




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### **STRATEGIES:**

- Inventory the County's natural and environmental resources to identify appropriate locations for greenways, Community, Neighborhood and Mini Parks including connectivity consistent with the 2014 Metropolitan Planning Organization (MPO) Bicycle and Pedestrian Plan.
- Strategically locate parks in or near Neighborhood Villages and Urban Centers to meet population-based needs. Parks should be carefully planned to respect and take advantage of natural and historic resources as well as to enhance the natural, scenic, and cultural value of the Urban Areas of the County.
- Ensure that development recreation and open space requirements are adequate.
- Actively pursue parkland in areas where publically accessible land does not or is not anticipated to meet citizen needs.

# Potential New County Park Locations





## Existing County Parks

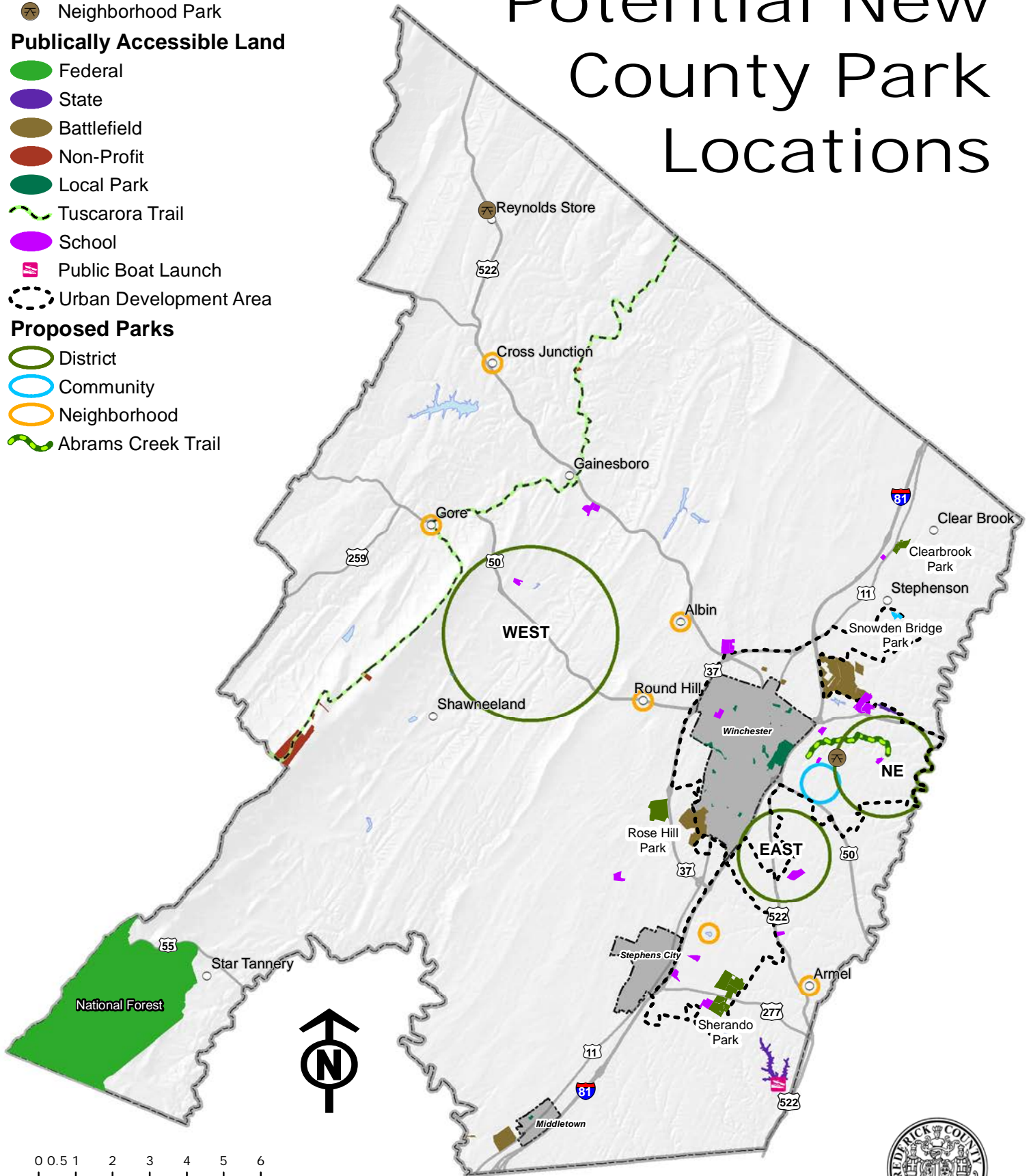
-  District Park
-  Community Park
-  Neighborhood Park

## Publicly Accessible Land

-  Federal
-  State
-  Battlefield
-  Non-Profit
-  Local Park
-  Tuscarora Trail
-  School
-  Public Boat Launch
-  Urban Development Area

## Proposed Parks

-  District
-  Community
-  Neighborhood
-  Abrams Creek Trail



## **HANDLEY LIBRARY**

### **CURRENT CONDITIONS**

Currently the Library System has one library in each jurisdiction served. As population grows in Frederick County, the demand for library services also continues to grow. Each library in the Handley Regional Library system functions as a community center, a search engine, and a place that welcomes everyone to lifelong learning. Frederick County's larger population and land area mean that there are Frederick County locations not well served by the Winchester or Stephens City libraries.

### **FOCUS FOR THE FUTURE**

As the residential population in Frederick County continues to grow the Library System has plans for opening new facilities. Within the next five years the Library Board plans for a library to open in the Gainesboro district and new libraries at Senseny and Greenwood and at Route 522 and Justice Drive are planned for the next ten years. The inclusion of small library branches that can offer delivery of materials from anywhere in the system as well as providing information and training to customers about new online services is also being considered.

### **COMMUNITY BENEFIT**

Ideally, a new library can best serve as community centers when they are located within a walkable community, near schools, parks and retail establishments.

### **GOALS/STRATEGIES**

**GOAL:** PLAN FOR GROWTH WITH THE AIM OF PROVIDING ADEQUATE LIBRARY SPACE FOR LIBRARY USERS IN THE FUTURE.

**STRATEGIES:**

- The Handley Regional Library Board will review and update its long-range plan for facilities growth, using the criteria of cost, need, safety, and proximity to the greatest number of residents.
- Continue to monitor the growth throughout the County to determine where new library facilities are needed.

## **FREDERICK COUNTY EMERGENCY SERVICES**

As residential and commercial developments continue to locate and expand in Frederick County, there will be an increased need for fire and rescue stations to provide services to protect the citizens and transient population. The ultimate goal of the fire and rescue system is to provide the most efficient fire and rescue services Countywide. Responses include, but are not limited to, emergency medical services, fire suppression, hazardous materials, swift water rescue, technical rescues, and natural disasters. Timely responses by emergency services personnel and equipment enable resuscitation efforts to begin in the critical minutes immediately following a cardiac related incident and also minimize fire related deaths.

### **FOCUS FOR THE FUTURE**

Future challenges for the Fire and Rescue Department include developing additional fire and rescue stations to meet future growth within the County and keeping up with the staffing needs to continue to provide quality timely service to the citizens.

Planning for future fire and rescue station locations and equipment needs must be accomplished by developing a five year strategic plan. This plan will identify future fire and rescue station sites and equipment needs based on projected service demands and response times. The plan will encourage the dedication of sites for new fire and rescue stations within the identified areas during the rezoning process.

Non-residential areas such as retail, office, and industrial areas require increased fire protection because specialized equipment is necessary to ensure safety for these land uses. Other land uses identified as target hazards continue to grow. These include land uses such as schools, nursing homes, daycare centers, and industrial facilities. These land uses have a higher risk of injury due to the specific demographics of person utilizing these facilities.

Existing road conditions, primarily those with gravel or dirt surfaces and horizontal and vertical curvatures, located outside of the county's Urban Development Area (UDA) create longer response times. The greatest factor contributing to the need for new fire and rescue stations is the rapid population growth and increases in dwelling units within the County.

### **COMMUNITY BENEFITS**

The development of new fire and rescue stations could provide an opportunity to extend satellite services provided by other County Departments and agencies. Allocation of space could be created within new fire and rescue stations for community services provided by the Sheriff's Office, the Treasurer's Office, the Voter Registrar's Office, and the Commission of the Revenue's Office. Also, in support of Neighborhood Design, it is encouraged that the location

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of future facilities be located within the UDA, near Neighborhood Villages and Urban Centers or in Rural Community Centers.

### **GOALS/STRATEGIES**

**GOAL:**           **WHEN PLANNING NEW FACILITIES, CONSIDER SITE LOCATION, SITE SUITABILITY, BUILDING DESIGN, AND CONSTRUCTION TIMING.**

**STRATEGIES:**

- Co-locate fire and rescue stations with other County facilities and agencies for maximum efficiency.
- Locate fire and rescue stations with easy access to a major arterial or at an intersection of two major arteries to gain both east-west and north-south access.
- Encourage sites to be large enough to accommodate equipment storage and facilitate maneuverability, allowing equipment to either pull-through or be backed into garage bays without hindering traffic flows in the public right-of-way.
- Locate fire and rescue stations on sites of between two and five acres to allow for future expansion. Sites may be smaller when developed as part of a Neighborhood Design in an Urban Center or Neighborhood Village.
- Select and design sites to minimize the adverse impact of sirens and other noise on residential areas.
- Investigate the need for a Regional Public Safety Training Center as the demands for public safety related training increase and existing facilities age.
- Where appropriate, collocate Fire and Rescue communication infrastructure on existing telecommunications towers and/or tall structures to support more efficient operations throughout the County.

## **WINCHESTER REGIONAL AIRPORT**

### **CURRENT CONDITIONS**

The Winchester Regional Airport is recognized as an important component of the County's Business Development efforts. Therefore, the Winchester Regional Airport Authority has developed an Airport Support Area for inclusion in the plan. Business and industrial uses should be the primary land uses in the airport support area and will be supported. The airport support area is an area in which further residential rezoning's will be prohibited in order to protect fly-over areas and noise sensitive areas. Conflicts between airports and residential development can be significant in growing communities. Residents of areas in the vicinity of the airport tend to oppose airport activities and the expansion of such activities because of concern for noise and fly-overs. The airport support area was also established to ensure the feasibility of continued airport use and future airport expansion and the implementation of the Comprehensive Plan.

### **FOCUS FOR THE FUTURE**

There is a need to continue to implement the airport support area expectations. Business and industrial uses should be the primary uses in the airport support area; residential rezoning's will be prohibited.

The Capital Improvement Plan will continue to be a key tool that will facilitate the growth and development of the airport. Remaining capital projects include the acquisition of land along Bufflick Road for noise abatement, development of the northern side of the runway, renovation of the 17 year old terminal building and construction of an aircraft wash rack.

### **COMMUNITY BENEFITS**

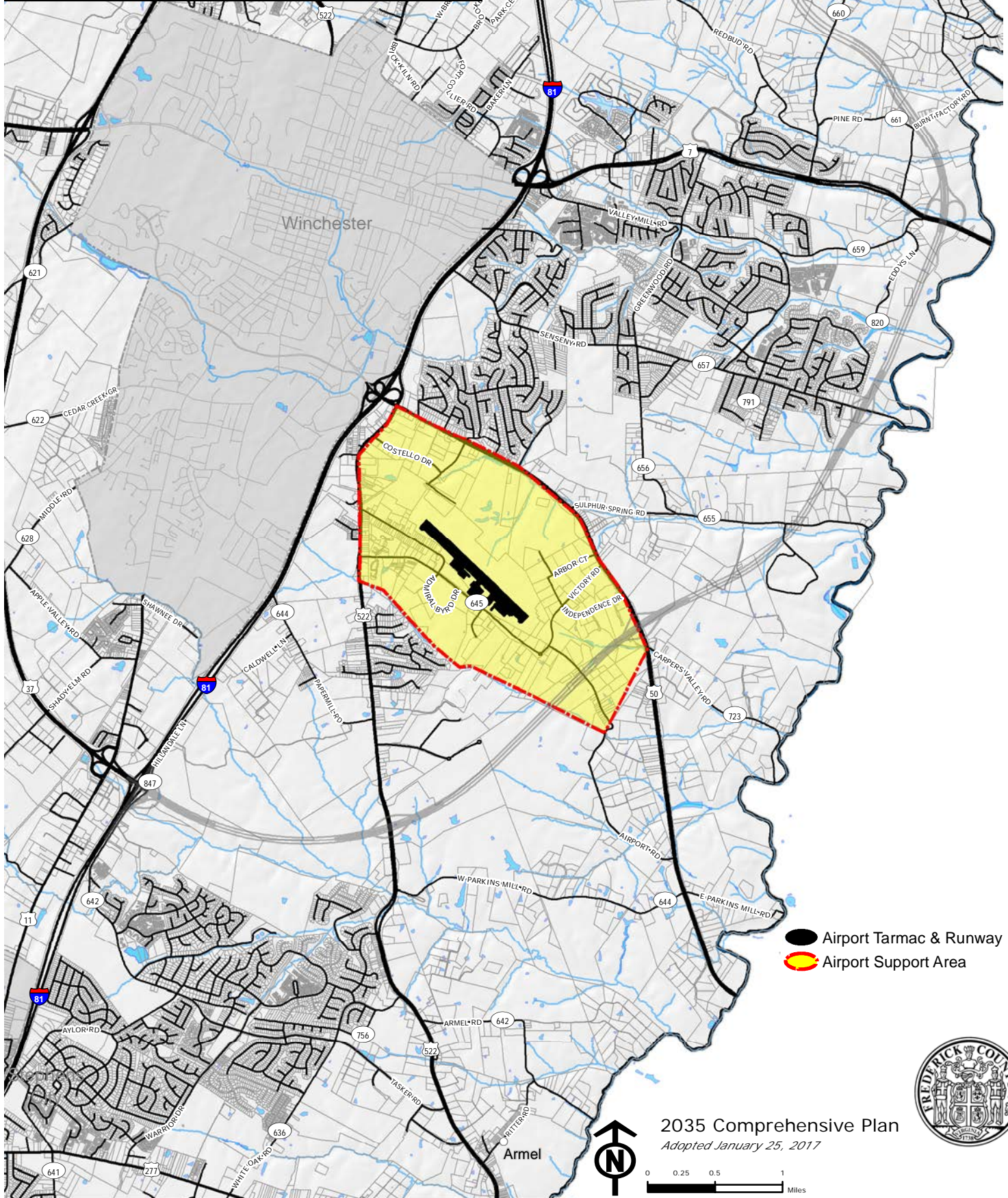
Through the support of the member jurisdictions, the Airport will continue to evolve into a modern, first class air transportation facility which will assist business development endeavors in the attraction of new industrial and commercial businesses to the region.

### **GOALS/STRATEGIES**

Specific Goals and Strategies relating to the Winchester Regional Airport are contained in Chapter 4 – Business Development.



# Airport Support Area



## **FREDERICK COUNTY SANITATION AUTHORITY (FCSA)**

### **CURRENT CONDITIONS**

The Sewer and Water Service Area (SWSA) is an important policy tool used by Frederick County to determine where public water and sewer service may be provided. The Board of Supervisors approves the location of the Urban Development Area (UDA) and SWSA boundaries through the adoption of the Comprehensive Plan and amendments thereto. As a result, properties located within the SWSA may enjoy access to public water and sewer.

The Frederick County Sanitation Authority (FCSA) has the primary responsibility to manage the provision of water and sewer services in Frederick County. Other public entities may serve properties within Frederick County, if approved by the Board of Supervisors. This is the case in some areas adjacent to the City of Winchester and in the vicinity of the Town of Middletown and the Town of Stephens City. The Middletown/Lord Fairfax and Middletown/Reliance Road Area Plans established Sewer and Water Service Areas (SWSA) with the express stipulation that the Frederick County Sanitation Authority (FCSA) will be the party responsible for providing water and sewer in this area. This may be done in cooperation with those adjacent public entities.

#### *Water and Sewer Services*

The location of public sewer and water lines within the Urban Development Area (UDA) and SWSA determines where urban development can occur. The UDA defines the general area in which more intensive forms of residential development can occur. Commercial, industrial, and institutional land uses are also encouraged within the UDA. The SWSA is consistent with the UDA in many locations. However, the SWSA may extend beyond the UDA to promote commercial, industrial, and institutional land uses in areas where residential land uses are not desirable.

It is the clear policy of the Comprehensive Plan that extensions of sewer and water service will be within the boundaries of the UDA and SWSA. The extension service into areas outside of those boundaries will require an amendment to the Comprehensive Plan. All sewer and water mains extended shall be publicly owned.

The Frederick County Sanitation Authority has the responsibility for the treatment, transmission, and distribution of potable water and the collection and transmission of wastewater. Most of the sewer and water mains and laterals in the County are owned, operated, and maintained by the Sanitation Authority.

Frederick County and the Frederick County Sanitation Authority have executed a Facilities Planning Agreement which sets forth procedures for the planning of sewer and water mains in the County. The agreement includes: provisions for adopting a water and sewer facilities plan as a part of the Comprehensive Plan; specifies the location of water and sewer mains over eight inches in size; provides for review and update of the plan and for including sewer and water facilities projects in the Frederick County Capital Improvements Plan.

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The City of Winchester owns and maintains sewer and water lines in portions of the County adjacent to the City corporate limits. Such lines have been extended into the County following a previous agreement between the City and the County.

### *Wastewater Facilities*

The Frederick-Winchester Service Authority (FWSA) provides wastewater service for the FCSA and the City of Winchester. The FWSA currently owns the Opequon Water Reclamation Facility, the Parkins Mill Wastewater Treatment Plant and the Crooked Run Wastewater Treatment Plant and has operational agreements with the City and the FCSA for their operation. The City operates and maintains the Opequon Facility while the Sanitation Authority is responsible for operation and maintenance of the Parkins Mill and Crooked Run Facilities.

Treatment of wastewater generated from within the County's Sewer and Water Service Area (SWSA) is undertaken at all plants. The Opequon Service Area is comprised of the Abrams Creek drainage area which includes the City of Winchester and adjacent drainage areas located east, west and north of the City of Winchester. The Parkins Mill Wastewater Treatment Plant serves Sanitation Authority customers located in the upper Opequon Creek, Wrights Run, and Stephens Run drainage areas along with the Town of Stephens City. The Crooked Run Service Area services the Lake Frederick/Shenandoah Community in southeastern Frederick County.

The Opequon Water Reclamation Facility presently has a treatment capacity of 12.6 million gallons per day. The Parkins Mill Wastewater Treatment Plant which serves the upper Stephens Run, Wrights Run, and Opequon drainage areas has a treatment capacity of 5.0 million gallons per day. In addition, the Crooked Run Wastewater Treatment Facility opened in support of the Lake Frederick development and has an ultimate capacity of 0.626 million gallons per day, with a current capacity of 0.375 million gallons per day.

### *Water Facilities*

The FCSA manages a system with a water capacity of 7.42 Million Gallons per Day (MGD), with an average daily use of 5.5 MGD. Various quarries provide the majority of the system's water supply, with an agreement with the City of Winchester supplementing the system with up to 2MGD.

Two water treatment facilities are owned and operated by the FCSA. The James H. Diehl Water Filtration Plant, put into operation 1994, treats up to 3 million gallons of water per day. Additional pumps can increase this capacity to 4 MGD. The water source is 3 million gallons of ground water pumped from quarries on the west side of Stephens City.

The James T. Anderson Treatment Plant, opened in 2002, has an initial capacity of 4 MGD expandable to 6 MGD. The water source is a quarry in Clearbrook and nearby wells.

In addition, the Authority has in operation one elevated tank and three ground storage tanks with a total capacity of 9.5 million gallons of system water storage.

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### **FOCUS FOR THE FUTURE**

The Frederick County Board of Supervisors establishes the framework for where development is to occur, and the Frederick County Sanitation Authority (FCSA) is tasked with accommodating and serving this new development

The Comprehensive Plan utilizes the UDA and SWSA to designate those areas that are envisioned to be developed within the next 20 years. Therefore, areas within the SWSA should be provided public water and sewer service over the next 20 years as development advances. Those areas identified with future land uses but are not presently within the SWSA are expected to develop over the next 20-40 years; public water and sewer should be planned to serve these future areas. It is the role of the Frederick County Sanitation Authority (FCSA) to plan for and accommodate sewer and water service to these areas of anticipated new growth and development.

Historically, the County and the FCSA have collaborated on long range planning efforts and this has previously been reflected in the Comprehensive Plan. Continued cooperation and collaboration between the FCSA and the Board of Supervisors is necessary in implementing the 2035 Comprehensive Plan.

In addition, the FCSA should update its master plan to reflect the FCSA's current plans to service land inside the SWSA and to include an overview of their plans to service future land uses outside of the current SWSA boundary. Such a master plan should build upon the future water and sewer needs of the County and guide the development and acquisition of water resources and waste water treatment options. The FCSA should proactively identify major capital projects aimed at increasing the County's water supply or implementing the anticipated future land use plan.

As noted in the Natural Resources Chapter of the Comprehensive Plan, water supply is critical to both the natural and built environment, and viable sources are essential for future economic development in the County. The future focus of the FCSA and County should continue to be to protect the water supply and to identify and secure viable sources of water for the future growth and development of the County.

### **COMMUNITY BENEFIT**

The Frederick County Sanitation Authority is a non-profit organization whose mission statement is to provide affordable and reliable water and wastewater service to our customers while protecting public health and the environment. The ultimate benefit to the Community is significant and noted throughout this Plan.

### **GOALS/STRATEGIES**

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**GOAL:**       **PROTECT GROUNDWATER SOURCES AND THE AREAS THAT CONTRIBUTE RECHARGE TO ENSURE THAT ADEQUATE WATER SUPPLIES ARE MAINTAINED, AND WORK TOWARD DEVELOPING INCREASED WATER SUPPLIES TO MEET FUTURE NEEDS.**

**STRATEGIES:**

- Frederick County and the Frederick County Sanitation Authority should continue to coordinate the planning of sewer and water facilities following the procedures described by the Facilities Planning Agreement.
- The Frederick County Board of Supervisors, with the support of the Frederick County Sanitation Authority, should work with adjacent communities to evaluate regional water supply issues. As a result, a regional water supply partnership could be formed that would combine water resources and address water supply issues as one regional entity to ensure common goals.
- Water and sewer service should be provided to service areas in the UDA and SWSA through an orderly process following the Facilities Planning Agreement and using the Capital Improvements Plan.

**GOAL:**       **FACILITIES AND SERVICES SHOULD BE CAREFULLY PLANNED TO MEET PROJECTED NEEDS. APPROPRIATE SERVICES AND FACILITIES SHALL BE PROVIDED TO SERVE PLANNED LAND USES AND DEVELOPMENT.**

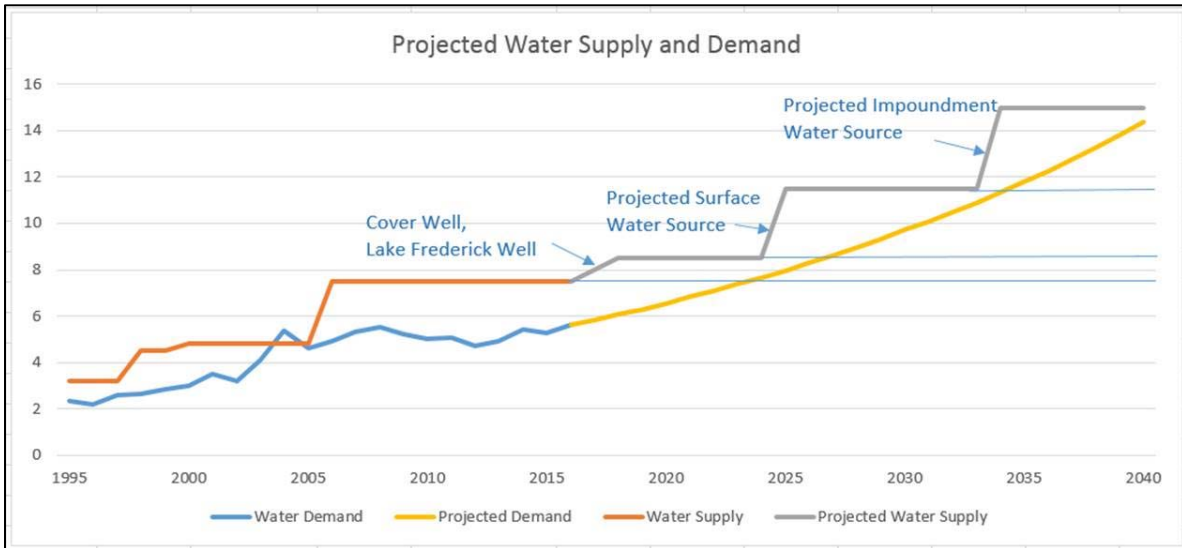
**STRATEGIES:**

- Carefully monitor sewer and water use and develop up-to-date improvement plans for sewer and water facilities.
- Develop and maintain formal and regular relationships and procedures between the County and providers of facilities and services, including the Sanitation Authority, the City of Winchester, the Service Authority, and the Towns of Middletown and Stephens City.
- Identify those areas in the SWSA that are better situated to be served with water and sewer and prioritize facility and infrastructure development to more effectively serve those areas and the SWSA.
- Any sewer or water main eight inches in diameter or larger, extended or existing within an area proposed for inclusion within the SWSA or UDA, should be dedicated as a public line to be owned and maintained by the FCSA or City of Winchester when appropriate.
- Plans for new facilities should be based on demand projections as derived from population projections in the Comprehensive Plan and from future land use plans which depict the planned future land uses that will accommodate the anticipated community growth.
- Together with the County and the City, the Frederick County Sanitation Authority and

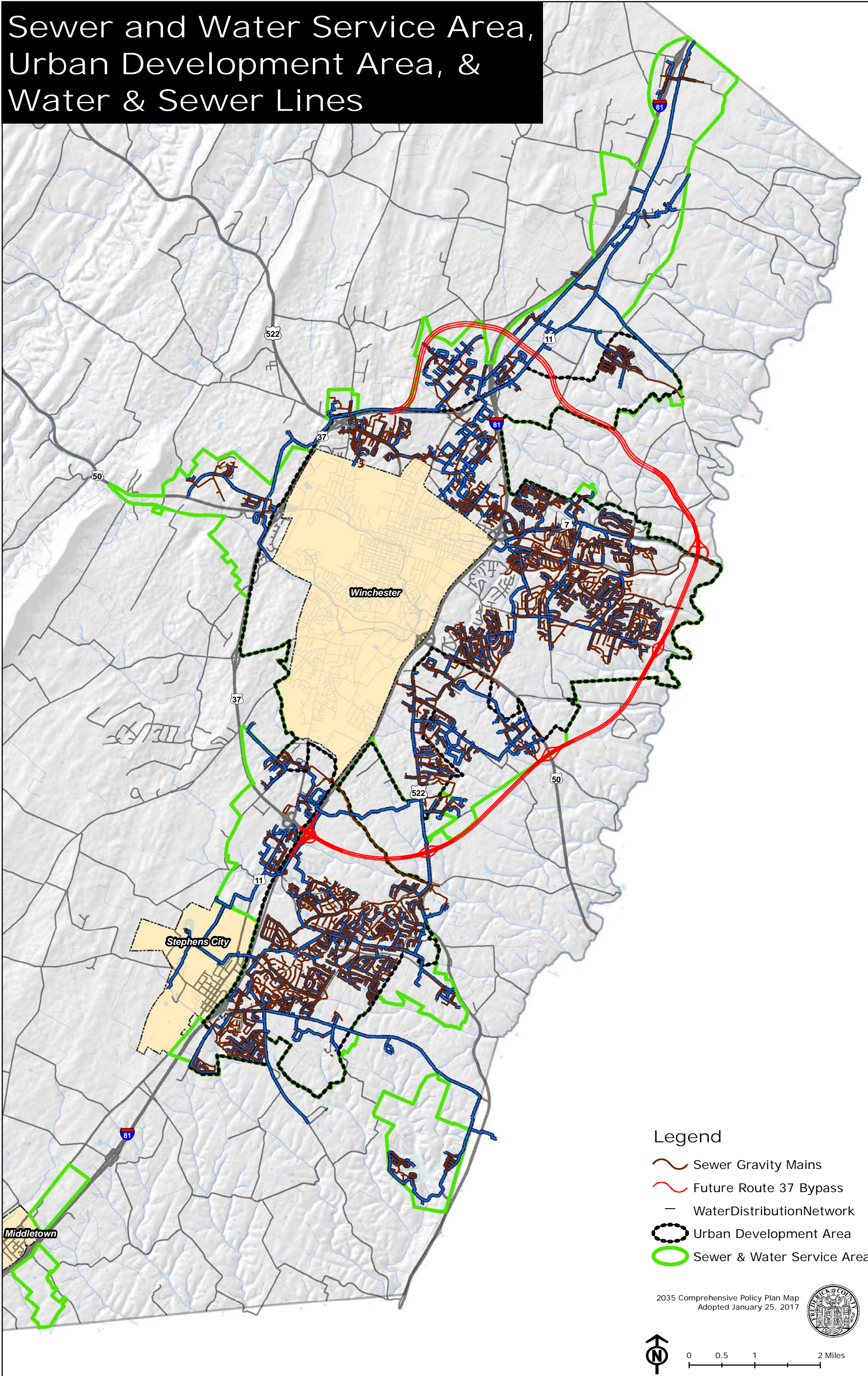
## PUBLIC FACILITIES

the Frederick-Winchester Service Authority should carefully plan needed sewage treatment capacity based on trends in usage.






### PROJECTED WATER SUPPLY AND DEMAND CHART



# Sewer and Water Service Area, Urban Development Area, & Water & Sewer Lines



## Legend

-  Sewer Gravity Mains
-  Future Route 37 Bypass
-  Water Distribution Network
-  Urban Development Area
-  Sewer & Water Service Area

2035 Comprehensive Policy Plan Map  
Adopted January 25, 2017



0 0.5 1 2 Miles