

The Text proposed to be added is shown as underlined and text proposed to be deleted is shown with a strikethrough. Text shown to be replaced is noted as such.

## **PUBLIC FACILITIES (DRAFT REDLINE)**

### **INTRODUCTION**

Public facilities and utilities provide the basic critical infrastructure for a community and they provide services that improve the quality of life for all residents. These services encompass a wide range of essential functions, including support for law enforcement, fire and rescue operations, the judicial system, libraries, schools, recreational areas, transportation infrastructure, health and human services, as well as crucial utility services like water supply, wastewater management, telecommunications, and electrical power distribution, among others.

The Public Facilities element of the Policy Plan is used by the County during the review of a new or expanding facility to ensure the proposed facility aligns with the objectives and policies of the Comprehensive Plan. These policies serve as a framework for promoting a transparent and fair planning process. They also aim to guarantee that County facilities offer equitable access to high-quality services for all residents, maintain compatibility with the surrounding environment and existing or planned land uses, address the facility needs of service providers to align with broader strategic goals and policies established at the countywide level.

~~Public facilities are those facilities required to support the services and functions provided by the county government or public utility companies. Such facilities are essential to support the community and its development and to enhance the overall quality of life. Public facilities include such necessities as water and sewer lines and police and fire protection, as well as educational and cultural services. In addition, they also include human services providers and parks and recreation, although these facilities and services are discussed in separate sections of the Comprehensive Plan.~~

Fairfax County population growth over the last several decades has brought about a corresponding rise in the demand for public services and facilities. The county's existing system of public facilities demonstrates a high commitment to service provision and the community's expectations of such. However, as the infrastructure in developed portions of the county ages, there will be increased competition between newer and older areas for facility dollars. Consequently, it becomes increasingly crucial for future development to be undertaken in close coordination with the provision of sufficient public facilities. This approach is vital to sustain the current level of service delivery in a financially responsible manner. By aligning development efforts with the necessary infrastructure investments, the county can effectively manage the evolving needs of its growing population while maintaining fiscal stability.

~~The vigorous growth of Fairfax County has been paralleled by demands for public services and facilities. The county's present system of public facilities demonstrates a high commitment to service provision and the community's expectations. However, as the infrastructure in currently developed portions of the county ages, there will be increased competition between newer and older areas for facility dollars. Therefore, it will become increasingly important to cause future development to occur in concert with adequate public facilities, if the existing level of service is to be maintained in a fiscally sound manner.~~

The Public Facilities Element of the Comprehensive Plan recognizes that the level of public services enjoyed by county residents is a significant local attribute and its continuation requires sound and supportable planning guidelines. These must not only ensure that there is a balance between the county's future land use intensity goals and facility quantity, but that new facilities are located to maximize accessibility while minimizing neighborhood negative impacts. Therefore, it is the purpose of this Plan element to provide specific guidance on the following:

- the appropriate general location of new facilities;
- appropriate specific locational criteria, such as site size, access, and screening for different facility types;
- ensuring that service level standards are met which indicate the number of new facilities;
- methods for determining the specific need and appropriate timing of facilities;
- the acceptable character and extent of facilities and measures for attaining them.
- ADD: Provide the framework for public outreach with regards to new facility development

### **PUBLIC FACILITY REVIEW PROCESS**

The primary mechanisms for applying this guidance and ensuring a well-balanced and adequate public facility system, is through both the Capital Improvement Program (CIP), the and 2232 Public Facility Review processes and review of Plan Amendments, and Rezoning.

The CIP is the County's five-year roadmap for creating, maintaining and funding present and future capital infrastructure requirements. The CIP serves as a planning instrument to identify needed capital projects and coordinate the financing and timing of improvements. The CIP provides the framework for the County Executive and the County Board of Supervisors with respect to managing bond sales, investment planning and project planning. Fairfax County's CIP includes not only a 5-year plan but a future outlook that includes the potential long-term requirements beyond the current 5-year period. The CIP is evaluated each year, with individual departments proposing new projects or adjusting current projects within the program. The Planning Commission conducts workshops with agencies and holds public hearings to review and make recommendations to the CIP. After completing its review, the Planning Commission submits a CIP to the Board of Supervisors for consideration and CIP adoption. The county's Capital Improvement Program CIP guides the development of public facilities over a five year period. It shows the arrangement of projects in a sequential order based on a schedule of priorities and assigns an estimated cost and anticipated method of funding each project. The Capital Improvement Program provides the financial foundation necessary to implement plans.

The county's 2232 Public Facility Review process is required to meet based on Va. Code 15.2-2232 and is a mechanism for is used to review and for the Planning Commission to determine reviewing the compatibility of proposed public facilities with the locational guidelines established in the Comprehensive Plan. Specifically, this process is used to determine if the general or approximate location, character and extent of a proposed feature facility are in substantial accord with the Comprehensive Plan. Applications for 2232 review are reviewed by various agencies for alignment with the Comprehensive Plan. After review, staff will make a recommendation to the Planning Commission for approval of the new or expanded facility. After a 2232 is reviewed and approved, the proposal will be administratively reviewed for site and building plan permits, as needed.

## BOARD OF SUPERVISORS GOALS

There are six Board adopted goals which relate directly to public facilities: Growth and Adequate Public Facilities, Adequate Public Services, Education, Culture and Recreation, Land Use, and Financial Planning and Management. These goals establish the basis for public facilities planning in Fairfax County as articulated by the objectives and policies in this element of the Comprehensive Plan. Overall, these goals emphasize the following:

- that the county is committed to a high level and quality of public services;
- that growth and new development should be held to a level consistent with the adequacy and accessibility of existing facilities and phased in accordance with the county's ability to provide new ones;
- that the county should ensure a quality education system by providing comprehensive education, training programs and facilities;
- that the county should provide a local system of libraries and cultural programs and facilities; and,
- that the county should support an equitable system of taxation and user charges to provide quality services and facilities to residents.

These goals also underscore the idea that public facilities, and the county's ability to provide them, is essential to maintaining the quality of life in the county and that a careful balance between land use decisions should be made only after public facility service implications are fully addressed.

## COUNTYWIDE OBJECTIVES AND POLICIES

The overall Public Facilities element of the Comprehensive Plan is based on The following general objectives which apply to the county's public facility planning effort as a whole and specific functional program areas in particular. These objectives therefore should be viewed as the key principles for establishing a facility network which is responsive to the county's ability to pay, community expectations, the public health, safety and general welfare, and neighborhood and land use impacts/considerations.

**Objective 1:** Locate new facilities to provide convenient service to the greatest number of people or service consumers and where access is convenient for residents and the requirements to provide the service or function are met users.

Policy a. Site facilities appropriately to the area they are intended to serve.

Policy b. Reduce service area overlap between like-similar facilities, unless overlap is necessary to correct service deficiencies.

- Policy c. Site facilities in accordance with locational standards that maintain accepted levels of service while reducing duplication or underutilization.
- Policy d. Ensure that minimum populations or service thresholds are projected to be met before facility construction is undertaken.
- Policy e. Locate facilities that provide on-site services near transit, where possible, with the necessary pedestrian infrastructure to safely allow users to access the facility.
- Policy f. Evaluate alternative sites when selecting an appropriate location for a new facility and demonstrate why the chosen site is more suitable than the alternative sites that were evaluated.
- Policy g. Evaluate buildings that are being considered for decommissioning, demolition, or placement out of service for their potential significance and eligibility for listing in the *County Inventory of Historic Sites*. If found eligible for Inventory listing, an effort should be made to preserve the building with its current use or adaptively reuse the building. If no feasible adaptive reuse is found, then the building should be thoroughly documented prior to demolition.

**Objective 2: Plan, fund, cConstruct and maintain facilities in accord with expected levels of service objectives and fiscal limitations.**

- Policy a. Program the establishment of facilities through the county's ~~Capital Improvement Program~~CIP, which is analyzed for adherence to the Fairfax County's *Ten Principles of Sound Financial Management*. ~~— Projects programmed for construction in the CIP should either be 1) identified in the plan text or on the Plan map in accordance with adopted service levels; 2) be demonstrated as particularly urgent to meet public health or safety needs or required service levels; or 3) be supported by a needs analysis reviewed both by the Offices of Comprehensive Planning and Management and Budget and supported by the County Executive's recommendation as evidenced by CIP inclusion.~~
- Policy b. Evaluate service gaps or access barriers and consider the equitable distribution of facilities during the planning and funding phases for new public facilities while balancing the overall county needs.
- Policy c. Review projects before acceptance into the CIP to ensure the project aligns with the Comprehensive Plan.
- Policy ~~b~~d. Follow adopted public facility standards to identify facility requirements associated with level of need, appropriate quantity and size, and relationship to population.
- Policy e. Prioritize projects that align with an agency's adopted strategic plans, needs assessments and/or master plans. All projects should generally align with countywide strategic plans and the Comprehensive Plan.

Policy f. Evaluate projects by analyzing metrics and data to assess the need for new or expanded facilities as part of the review and approval of the CIP. Agencies submitting for new projects should incorporate metrics and data as part of their submission package for CIP review.

Policy g. Identify links between the CIP, County infrastructure, service needs, and land use planning. The linkage would reflect anticipated and funded CIP projects in the Comprehensive Plan. These links will help inform the public, assist in public facilities review, and facilitate a better understanding of the CIP as a tool to implement the Comprehensive Plan.

Policy ~~eh~~. Ensure adequate maintenance of existing facilities.

Policy i. Review established maintenance classifications and prioritization levels for assessing facility and infrastructure conditions and ensure that the highest priority infrastructure replacement and upgrade project needs are identified by each agency annually. The CIP should provide the Board with a countywide integrated view of the scale and scope of unmet infrastructure replacement and upgrade needs.

---

**Objective 3: Balance the provision of public facilities with growth and development.**

Policy a. Construct new facilities ~~or expansions of existing facilities, where appropriate~~ in size and quantity ~~which is~~ consistent with projected ~~population~~ needs.

Policy b. Ensure that adequate facility space and services are available, programmed in the CIP, or provided by new development, before increasing planned intensities through revision of the Comprehensive Plan.

Policy c. Assess the adequacy of and need for public facilities ~~in~~ during the rezoning process.

Policy d. Phase increases in development intensity with the establishment of necessary facilities, when rezoning to higher intensities is to occur prior to the establishment or programming of adequate facilities.

Policy e. Designate and reserve future public facility sites that will be required ~~by~~ for future growth and development.

Policy f. Ensure that when existing ~~or vacant~~ public facility sites are no longer needed for their original use, ~~the land formerly used for that purpose is~~ the sites are reserved, to the extent possible and prudent, for other public uses and/or opportunities for affordable housing.

Policy g. ~~Acquire~~ Identify and acquire, as fiscally possible, sites for public facilities in advance of demand either through purchase or dedication.

Policy h. Plan for the provision of buildings or land for public facilities as needs are identified.



Policy i. Prioritize public facility and infrastructure investment and development in areas such as urban centers, transit station areas, suburban centers, and revitalization districts.

Policy j. Identify underutilized commercial space for the use of public facilities; particularly facilities that can contribute to placemaking in revitalization areas, such as libraries, community centers, recreation centers, park spaces or other similar uses.

**Objective 4:** ~~Consider~~ **Mitigate** the impact of public facilities on adjacent planned and existing land uses.

Policy a. Locate public facilities in areas of compatible land use when possible, if service efficiency and cost effectiveness can be achieved. ~~Siting facilities in areas of different land uses is acceptable and at times required, to provide centrally located public facilities which are critical to the public interest, as long as the integrity of the Comprehensive Plan is not impinged.~~

~~Policy b.~~ ~~Co-locate public facilities whenever appropriate to achieve convenience and economies of scale, as long as the integrity of the Comprehensive Plan is not impinged.~~

Policy ~~eb.~~ Design facilities to celebrate and promote and enhance the community identity ~~of and~~ existing or planned character of the surrounding area.

Policy ~~dc.~~ Ensure that public facilities are properly screened and buffered in order to mitigate visual impact on existing or adjacent planned adjacent development of a different use or nature.

Policy ed. Ensure that site size and development conforms ~~to with~~ all requirements of the Fairfax County Zoning Ordinance and exceeds site acreage requirements, as possible, to achieve maximum compatibility with surrounding land uses.

Policy e. Prioritize the incorporation of public art, murals or other design features into public facility projects or publicly accessible spaces.

**Objective 5:** **Acquire sites which are appropriate for the facility's specific purpose. Apply acceptable criteria when evaluating public facility sites.**

Policy a. Consider accessibility in siting facilities. In general, public facilities should ~~have access to be near~~ primary arterial roadways roads. Exceptions to this locational principle include facilities with a ~~community~~ pedestrian orientation, such as a neighborhood park or ~~an elementary~~ school where local roads are the preferred immediate access.

- Policy b. Locate facilities on sites which have adequate acreage for short-term needs, but can also accommodate expansion.
- Policy c. Avoid areas of environmental sensitivity except where site acquisition is in support of open space. Additionally, avoid areas vulnerable to environmental and climate-related hazards, including areas vulnerable to current and future flooding. Flooding vulnerability should include both urban and riverine flooding considerations.
- Policy d. Evaluate engineering considerations, such as slopes and soils and other factors pertinent to knowing the extent of the site's development cost.
- Policy e. Locate, as possible, facilities on sites with public water and sewer.
- Policy f. Plan and coordinate the PPEA process or public-private partnership projects that involve public facilities with the Department of Planning and Development early in the process to ensure the proposed project aligns the Comprehensive Plan.
- Policy ~~fg~~. Locate facilities on sites ~~preferably having mature vegetation, where existing vegetation is~~ capable of providing a natural buffer, natural shading and cooling, stormwater absorption and enhancing building design. Preservation of existing vegetation should be prioritized when designing the location facility and infrastructure placement.
- ~~Policy g. Use the 2232 review process to determine the siting suitability and appropriateness of facilities in relation with the Comprehensive Plan.~~
- Objective 6: Design, retrofit and maintain public facilities and sites in an environmentally-sensitive manner.**
- Policy a. Apply low impact development (LID) practices and natural landscaping methods with the goal of minimizing resource consumption, reducing stormwater runoff and flooding, —decreasing life-cycle maintenance requirements, increasing the biodiversity and habitat value of each site, and increasing soil and plant health. Consider factors including costs, health, safety/security, and the broader context of facility and site needs (e.g., recreational uses).
- Policy b. Design and coordinate county infrastructure projects, such as trails, sanitary sewer lines, stormwater management infrastructure, and stream restorations, to minimize disturbance of natural habitats and to minimize the limits of clearing and grading. Design and maintain utility corridors as natural areas to the extent practicable.
- Policy ~~cb~~. ~~Where opportunities arise in consideration of the factors identified in Policy a above, r~~Retrofit and maintain existing facilities and sites with natural landscaping and LID methods/practices when opportunities arise in consideration of the factors identified in Objective 6, Policy a.

Policy ~~de~~. Ensure that natural landscaping and LID practices are monitored and maintained such that they will remain viable over time. Species should be native or adapted (non-invasive, climate-resilient) species.

Policy ~~ed~~. Apply green building practices within the design of public facilities. When possible, public facilities should be built and operated to meet or exceed county guidelines for green building certification for capital projects.

Policy f. Apply climate-resilient design practices to the design of public facilities to ensure long-term resilience to climate hazards such as flooding, severe storms, and extreme heat, in alignment with county's climate resilience plans and programs.

**Objective 7: Prioritize the co-location and design of facilities to better meet consumer services and provide the most efficient use of available land.**

Policy a. Prioritize the co-location of facilities when there are opportunities for agencies to share resources, provide complimentary services or when there is a benefit for residents access to multiple services at one location.

~~Policy b. Select locations for co-located facilities that provide safe pedestrian access.~~

Policy b. Prioritize co-located facilities in urban centers, transit station areas, suburban centers or revitalization districts to provide more efficient access to county residents and employees.

Policy c. Review co-located facilities to determine if additional security and privacy features are included in the design of the facility to ensure that all individual facilities maintain their necessary operating integrity.

Policy d. Maximize the potential for shared resources by incorporating shared parking facilities and other shared infrastructure for service providers and users when co-locating facilities.

Policy e. Consider and prioritize affordable housing and childcare uses in conjunction with new facility development or included in the co-location of other public facilities where appropriate.

Policy f. Establish memorandums of understanding and/or shared maintenance agreements before the opening of a co-located facility.

Policy g. Utilize county properties to contribute to healthier environments by encouraging the incorporation or co-location of amenities for all ages and abilities in support of healthy and active lifestyles.

Policy h. Incorporate urban design principles into facility development, such as increased vertical uses. Facilities should be designed, when possible, to have the ability to expand vertically when expansion of services in the future may be needed.



Policy i. Encourage the development of satellite offices or shared space for use by multiple agencies in order to provide better access, throughout the county, to employees and residents.

Policy j. Facilitate access to services through co-location of county departments and community-based organizations and through the use of county facilities, such as schools, libraries, recreation facilities, or commercial centers and non-profit facilities.

## THE PUBLIC FACILITIES ELEMENT

~~The Public Facilities Element of the county's Comprehensive Plan is organized in four major sections: Education—Higher Education and Public Schools and Higher Education; Libraries; Public Safety—Police, Fire and Rescue, Sheriff, Courts and Animal Control; and Utilities and Services—Water Supply, Sanitary Sewer, Solid Waste, Drainage Systems and Stormwater Management Facilities, county Vehicle Maintenance Facilities, Gas, Electric, Telephone, and Communication Towers.~~

~~For each of these sections findings and issues are discussed and planning guidelines are presented. In most cases these guidelines~~The following guidelines provide policies and standards for the following factors:

Location - where should facilities be located in order to provide accessibility, support planned land uses, and adequately ~~serve their function~~address the needs of the service providers.

Character and Extent - the ~~quantity~~scope of the facility which should be constructed in relation to the population, the appropriate facility size, and design requirements to achieve ~~neighborhood compatibility~~with the surrounding area and environmental sustainability.

Other - factors which must be addressed to provide an acceptable level of service or community or user benefit.

## EDUCATION

Fairfax County residents are offered a full and varied range of educational opportunities through the county's public school system and the presence of both ~~a community college~~Northern Virginia Community College and ~~a four-year university~~George Mason University.

## PUBLIC SCHOOLS

### INTRODUCTION

Fairfax County Public Schools (FCPS) is the major provider of education in the county. FCPS, which has been nationally recognized for excellence, ~~and~~is one of the largest school systems in the nation,— and has a wide range of educational facilities that accommodate instructional programs for county students from kindergarten through grade 12.— In addition to accommodating educational programs, school facilities are used to meet the county's recreational

and cultural needs through programming by the Fairfax County Department of Neighborhood and Community Services. ~~Generally, separate facilities are provided to serve up to three~~ the following levels of education:

- Elementary ..... kindergarten to grades 5/6
- Middle ..... grades 6/7 and 8
- Secondary ..... grades 7 through 12
- High ..... grades 9 through 12

Additionally, FCPS ~~has an extensive adult education program, and many specialized educational programs~~ offers several unique instructional, nontraditional, and special education programs in their facilities. Instructional programs include FCPS Pre-Kindergarten (PreK), Advanced Academic Programs, High School Advanced Placement, International Baccalaureate Diploma Program, and High School Academy. Nontraditional programs include Fairfax County Adult High School; Achievement, Integrity, and Maturity program; Alternative Learning Centers; Nontraditional Career Readiness Academy; Transition Support Resource Center; and Adult and Community Education. ~~Special education programs serve mentally and physically handicapped students, ranging in age from 18 months to 22 years. The Family and Early Childhood Education Program (FECEP), formerly known as Head Start, is a preschool program operated primarily in elementary schools for children ages 4 and 5 are a specially designed instruction to meet the unique needs of children with impairments or disabilities. Special education services may include, but are not limited to, preschool autism, intellectual disabilities, deaf or hard of hearing, blind and visually impaired, or physical disabilities. A continuum of services is available at every school and comprehensive services are provided at selected sites. FCPS facilities are also used to support the School Age Child Care (SACC) Program that is sponsored by the Fairfax County Office of Children. SACC provides school-based before and after school care for elementary school children. Additionally, a continued priority is expanding the availability of space to serve PreK.~~

The Constitution of Virginia delegates the supervision of public schools to the school board of each locality. ~~Virginia school boards are not county agencies. The Virginia Supreme Court consistently has acknowledged that the power to select school sites and to determine the manner in which~~ how school properties ~~shall be~~ are used is essential to the School Board's supervisory role.

Pursuant to Virginia Code annotated Section 15.2-2232 when a proposed public school facility is not featured in the Comprehensive Plan, the School Board must submit the proposed facility to the Planning Commission for a determination of whether the general, or approximate location, character, and extent of the proposed facility is substantially in accord with the Comprehensive Plan. The text, objectives, and policies appearing in this portion of the Policy Plan are planning guidelines and are not intended to negate the School Board's constitutionally vested authority for school site selection, school design, or the most appropriate method to house and accommodate Fairfax County public school students. On the other hand, to the extent that the text, objectives, and policies of this section reflect land use rather than programmatic concerns, they will be implemented by the Planning Commission, as required by Virginia Code, Section 15.2-2232.

The fundamental element in capital facility planning for public schools is determining future memberships, a complex procedure which continues to be refined. ~~The school system employs multiple methodologies for projecting student populations.~~

~~Planning for schools is particularly difficult in areas with transient populations, such as Northern Virginia. This problem is compounded in Fairfax County by development, and a~~

~~multitude of variables which alter enrollment levels, such as transfers to and from private schools, in and out migration rates, and changing family compositions in existing housing stock.~~

FCPS strives for ~~precise effective~~ facility planning, ~~in order~~ to mitigate costs associated with over-estimates and ~~yet~~ ensure adequate physical space for students and programs. ~~—The need for facilities and additions is determined by comparing available capacity in an area and the projected students for that area.~~ ~~new school construction or capacity enhancements is considered to address capacity deficits or accommodate future needs in response to growth.~~ Capacity is an estimate of the number of students ~~spaces available within an educational facility which takes into account the following factors:~~ educational specifications for elementary, middle and high schools; or elementary and secondary schools; program requirements; and appropriate student teacher ratios. For example, program requirements can alter space allocations within a building if they utilize additional space, such as the addition of a room for computer training. Changes in student teacher ratios can alter the number of classrooms required for a given number of students by modifying how they are organized into classes and scheduled into rooms. ~~a school can support when the restriction of program of studies is applied.~~ Capacity is measured differently for the elementary, middle, and high school levels. For all school levels, both a design capacity and program capacity is calculated. Design capacity reflects the capacity of a building as it was originally constructed. Newly constructed and renovated facilities are designed in accordance with approved education and safety specifications. Program capacity refers to the number of students a facility can accommodate based on the current programs at a school. Unlike design capacity, the program capacity changes each school year depending on programs allocated to a facility and how the space is utilized.

Student membership ~~forecasts~~ projections, coupled with capacity estimates and facility standards, provide the framework for capital facility planning. ~~—Locational criteria assists in site planning, identification, and selection.~~

~~The next 20 years will prove a significant~~ It is a continuous challenge ~~in maintaining and improving to maintain and improve~~ the county's high standards for educational facilities. ~~—In addition to keeping pace with technological advances and demographic fluctuations, FCPS must acquire school sites or buildings in an ever-tightening real estate market. Land and building acquisition, construction of schools or lease of buildings will compete with other community facilities for available land and funding resources.~~ ~~—Due to limited funding and the number of available parcels that meet standard acreage requirements, FCPS will need to consider school sites in an urban context or on parcels of limited size.~~ While providing for new facilities is expected to be a major focus for FCPS, it is becoming increasingly apparent that the rehabilitation of existing facilities will compete for limited facility funding. ~~—Therefore, every effort should be made to ensure that projects cost-effectively meet FCPS requirements.~~

## Location

**Objective ~~68~~:** Acquire sites for schools or educational facilities through negotiation, dedication, or ~~condemnation~~ purchase. ~~— This may include the siting of schools or facilities in high density areas or on parcels of limited size.~~

Policy a. ~~Place~~ Locate schools on parcels meeting the optimum number of general locational criteria. Sites should be evaluated by the following factors:

~~— Safe and convenient accessibility to pedestrian and road networks, and transit where available.~~

- Encourages multimodal transportation with safe and convenient accessibility to pedestrian, bicycle, and road networks;
  - Contains bike lanes and network through quiet neighborhood streets;
  - Avoids high traffic roads by being in areas with lower traffic volume and speed;
  - Implements traffic calming infrastructure within the school walk zone;
  - Provides transit that best supports the community being served by the school facility;
  - Floor Area Ratio (F.A.R.) to accommodate expansion, when the school is originally sized below the maximum efficiency standard for that type of school;
  - Compatibility with adjoining planned and existing development~~and with the Comprehensive Plan;~~
  - Aesthetically pleasing physical qualities with appropriate engineering features (e.g. soils, topography);
  - and are located in close proximity to other public facilities, such as police and fire and rescue services, public parks and libraries.
- Policy b. Locate school sites, when situated in areas conducive to pedestrian traffic, to take advantage of maximum walking distances of one mile for elementary schools and one and a half miles for middle schools, high schools, and secondary schools.
- Policy c. Locate ~~middle schools, high schools, and secondary schools, and~~ when possible and appropriate, elementary schools, where they can be served by public water and sewer. ~~When elementary schools must be located in non-sewered areas in order to serve their target student population, well and septic can be utilized if no other alternative is available.~~
- Policy d. ~~Acquire school sites, w~~When land dedications cannot be obtained, acquire school sites or identify other innovative approaches to meet school facility needs as far in advance of construction as possible, to ensure availability of both the preferred location and the necessary site features. Plan for acquisitions through the Capital Improvement Program and the Comprehensive Plan, and the Comprehensive Plan.
- Policy e. Encourage site dedications ~~which~~that provide sufficient F.A.R. to meet locational criteria.
- Policy f. Coordinate the acquisition and design of the site's active recreation areas with the Fairfax County Park Authority and other agencies. ~~—~~This will ensure maximum opportunities for co-location and efficient use of recreational and other facilities.
- Policy g. ~~As part of the development and redevelopment process, encourage commitments for school renovations and additional capacity~~Encourage commitments for school renovations and additional capacity as part of the development and redevelopment process where permissible.

Policy h. Encourage the identification and creation of spaces with flexible design that can meet education needs.

Policy i. Fairfax County Public Schools and county staff will review periodically long-term projected growth and development impacts on school capacity.

**Objective 79:** Distribute administration and maintenance facilities to conveniently serve the areas they support where ~~feasible~~possible and appropriate.

Policy a. Locate Area Administration buildings in the school areas they ~~are intended to~~ serve.

Policy b. Locate maintenance and operation facilities to afford greater convenience, efficiency and reduction of travel time.

#### Character and Extent

**Objective 810:** Locate schools on sites which meet or exceed minimum state size guidelines where ~~feasible~~possible and appropriate.

~~Policy a. Ensure that minimum site size conforms to the Fairfax County Zoning Ordinance F.A.R. requirements. This may result in the acquisition of sites that do not conform to the state suggested guidelines.~~

~~Policy a. Consider innovative urban design solutions in collaboration with FCPS, for parcels limited in size and/or in high-density areas that may not meet with minimum state size guidelines.~~

~~Policy b. Consider sites or buildings that allow for flexibility in school facility types. School facilities may include a traditional or nontraditional school, or buildings that provide special education programs, administrative space, and/or other support functions.~~

**Objective 911:** Design schools and educational facilities to allow for optimal site utilization while providing optimum service to, and compatibility with, the local community.

Policy a. Design and construct schools in accordance with approved education and safety specifications.

Policy ~~a~~b. Design schools to maximize a site's utility, while providing for safety and aesthetics.

- ~~•~~ Provide for possible future expansion and allow for efficient flow of traffic to, from, and within the school site.
- ~~•~~ Provide ~~adequate~~ stacking space and circulation for school buses, student drop-off, onsite bus parking, when possible and off-street parking, as required.



- Provide staging area for the kiss and ride, as required.
- ~~The i~~Minimize the impact of school traffic on local road networks should, to the extent possible, be minimized.
- ~~Provide~~ balance of parking spaces to include staff, visitors, and, as appropriate, students.

~~Policy c.~~Policy b. — Design and construct schools with appreciation for, and attention to, environmentally sen Design, retrofit, and maintain school facilities and sites in an environmentally-sensitive manner sitive lands to proactively address climate change, resilience and environmental sustainability consistent with the recommendations of county and school policies.

Policy de. ~~Locate schools in relation to residential or mixed-use areas, the road network, traffic patterns and transitor near residential areas, mixed use/community-serving retail areas, and/or near transit routes~~ where available to optimize the resulting safety and convenience for students, residents, and commuters. When possible and appropriate, schools should not be located where there are barriers to pedestrian and bicycle travel. When possible, elementary schools should be located in, or on the periphery of, residential or mixed-use areas to ensure proximity and convenience for students and the local community.

Policy ed. Provide ~~for~~ compatibility between schools and adjacent properties with appropriate screening and fencing, in accordance with the Fairfax County Zoning Ordinance. When designing and constructing schools, preserve as much mature ~~natural~~ native or non-invasive, adapted vegetation as possible.

Policy fe. Design buildings for educational purposes so that intensity and character are compatible with surrounding planned and existing development.

Policy gf. Consider Area Plan design guidelines, as appropriate, for schools and buildings for educational purposes.

Policy hg. Consider co-location of different levels of education and other types of programs, with the option of shared facilities such as cafeteria, gymnasium, auditorium, library, and administrative offices.

Policy ih. ~~Consider~~Encourage co-location of schools with other public uses such as a library or a recreational centerFCPS and Fairfax County facilities and land, as applicable based on compatibility with each other.

Policy j. Locate schools no closer than 1,000 feet of access-controlled highways and/or major arterial roads, when possible and appropriate.

**Objective ~~10~~12:** Consider adaptive reuse of buildings for public schools and educational purposes.

Policy a. Consider properties such as office, commercial, or other buildings for conversion to education facilities.

Policy b. Consider commercial sites to offer FCPS programs ~~such as Transitional High Schools, Family and Early Childhood Education Program (FECEP)/Head Start and distance learning. These sites could also provide services to the community or other uses which may include, but are not limited to, administration, operational and maintenance uses or school bus parking spaces.~~

Policy c. Consider alternative spaces for outdoor recreation, such as converted rooftops and underutilized surface parking lots. Coordinate with the Fairfax County Park Authority or other organizations for efficient use of recreational facilities for both school and community use.

~~Policy d. For reuse of buildings, select a buildings that provide access, safety, security, and meet play space requirements.~~

**Objective ~~41~~13:** Encourage optimization of existing schools and other facilities, whenever possible and ~~reasonable~~appropriate, to support educational and community objectives.

Policy a. Build additions, when possible and appropriate, to minimize the need for new facilities. Analyze carefully the costs and benefits associated with construction of an addition as compared to a new facility.

Policy b. Consider the expansion of existing school facilities identified on the Comprehensive Plan map as a feature shown of the Comprehensive Plan provided the proposed expansion has received prior approval by a public bond referendum, is included in the county's currently adopted Capital Improvement Program, and does not significantly impact the character of the existing facility, ~~and its compatibility with the surrounding area, and adherence to the Zoning Ordinance and Comprehensive Plan guidance.~~

Policy c. Provide temporary facilities as required to respond to short--term student population accommodation needs.

Policy d. Encourage parity between older and newer schools and facilities through renovation. ~~Apply the same educational specifications used as a guide in the construction of new school facilities for planning the renovation of existing facilities~~Design and construct schools in accordance with approved education and safety specifications. Consider expected future utilization rates when proposing renovation projects.

Policy e. Continue the practice of serving local communities for scouting, senior citizen programs, and other neighborhood based activities through the use of school facilities. Provide access to school grounds for community use of recreational facilities.

Policy f. Continue the practice of working in collaboration with the Fairfax County Office for Children and other organizations for the provision of space for before and after-school child-care services.

Policy g. Continue the practice of allowing the Park Authority and other organizations to utilize sites before school construction begins.

Policy h. Obtain formal agreements with appropriate stakeholders when identifying interim uses of school sites prior to school construction and include the scope, criteria, and duration. Review the agreements in conjunction with Fairfax County and FCPS CIP schedules.

Policy i. Ensure FCPS is part of the identification or change in use of school and other facilities to support education and community objectives.

Policy ~~h~~j. Provide space for other public service needs, when possible and ~~reasonable~~appropriate, in underutilized schools.

Policy ~~i~~k. Consider co-location of multiple education facilities on school sites.

**Objective 14: Ensure the mitigation of impacts to school facilities caused by growth in residential development through provision of proffers, conditions, contributions, commitments, and land dedication.**

Policy a. Offset residential development impacts to school facilities based on the recommendations provided in the Land Use Element of the Policy Plan. Contributions could be more traditional in nature, such as dedication of a school site, or might include more innovative urban design solutions such as locating school facilities with parks or within buildings serving other uses.

Policy b. Recommend a fair share contribution for development applications that propose residential use, where appropriate, so that applications contribute to land acquisition and construction cost to address the school needs that are generated if they are unable to provide a site or building for reuse.

Policy c. Seek dedications for school facilities, land or building(s), in advance of approval of new residential development applications in order to maintain and improve the county's high standards for educational facilities and to not impact current levels of service provided by the public school system. FCPS should continue to collaborate with Fairfax County and applicant(s) to identify site(s).

Policy d. Ensure that Comprehensive Plan land use amendment proposals for higher residential densities include recommendations for the provision of school facilities, as applicable, to offset the impacts of increased residential density.

## HIGHER EDUCATION

### INTRODUCTION

Fairfax County encourages and supports institutions of higher learning in order to promote intellectual development and educational opportunities for all students, and to provide resources which benefit the community as a whole.

Fairfax County's two public institutions of higher learning, George Mason University (GMU), a four-year university, and Northern Virginia Community College (NVCC), a two-year college, are both state funded. NVCC is also funded (for capital only) by the local jurisdictions where campuses are located. Funding provided by these jurisdictions is calculated according to population, and in Fairfax County, the percentage share is determined annually.

~~As of spring 1996, GMU had a full time equivalent (FTE) student population of about 15,700. Future GMU projections to the year 2010 indicate an increase of 88% to 29,600 FTE's. These projections are based on analysis of current admissions applications and requests for classes in additional subject areas, and Washington Metropolitan Council of Governments (COG) population and employment projections.~~

~~In addition, the Virginia Tech/University of Virginia Education Center near the West Falls Church Metro Station provides graduate and continuing education programs. Approximately 4,900 students are enrolled at this center.~~

### Character and Extent

**Objective ~~12~~15:** Ensure that development of higher educational facilities is consistent with the goals of the Comprehensive Plan.

Policy a. Encourage the state to phase facility construction in conjunction with area road improvements.

Policy b. Encourage the state to construct new facilities to be compatible with and supportive of adjacent land uses.

Policy c. Encourage the state to construct new facilities in an environmentally responsible manner.

Policy d. Encourage the expansion of pedestrian and bicycle infrastructure in and around higher education facilities to provide safe access for students and visitors.

Policy e. Encourage appropriate student and facility housing infill and development to be located near higher education facilities.

**Objective ~~13~~16:** Expand services and facilities of higher education commensurate with regional demands and expectations in areas that are conveniently located for students and effectively concentrated for educational efficiencies.

Policy a. Expand services to the community through the community college. Support NVCC's efforts which continue to provide undergraduate and continuing

educational instruction, study, and research, and the use of a community center for meetings and cultural events.

- Policy b. Encourage the state to achieve GMU's plans for additional educational facilities and services, in a manner which is consistent with the Comprehensive Plan and the county's road and facility systems. Ensure that the implementation of these plans respect adjacent planned and developed land uses.

## LIBRARIES

### INTRODUCTION

The Fairfax County Public Library system (FCPL) provides library services to residents of Fairfax County and the City of Fairfax. There are 23 service locations comprised of two categories of libraries based primarily on facility size:

- Regional Libraries are the largest facilities with approximately 25,000 to 45,000 square feet. As a function of sub-Census tracts within each library service area, the size and demographic makeup of a service population varies slightly from year to year. Regional libraries serve populations of between 45,000 and 115,000.
- Community Libraries range in size from 13,000 to 20,000 square feet. Community libraries serve populations between 16,000 and 62,000 depending on the density of the particular service area.

All libraries have service areas that vary slightly from year to year depending on drive time. While the vast majority of residents are within a 10-minute drive of a library, no resident is more than a 15-minute drive from their nearest public library. Services to the hard of hearing, the visually impaired and residents with disabilities are provided by Access Services, located at the Government Center.

The mission of the Fairfax County Library FCLP is to provide and to encourage the use of library resources and services to meet the evolving educational, recreational, and informational needs of all residents of Fairfax County actively build community further literacy, and promote freedom of access and expression through programing, community spaces, technology, and collections of educational and recreational resources, in a variety of formats, thus enhancing individual and community life. -To achieve fulfillment of this mission, FCLP the Library will continue to:

- To pProvide a network of facilities that offer library services responding to the needs of the community in which each library is located and systemwide mechanisms to share resources among branches.
- To select, obtain, process and provide access to materials that meet the educational, recreational, and informational needs of Fairfax County citizensresidents.
- To provide convenient, onsite or remote or off-site access to library services for county residents that is free of time and location constraints. Since the early 1960's, the Fairfax



~~County Public Library has grown from two libraries to 20 library facilities with an administrative center in the county Government Center. (See Figure 1.) The library system is comprised of two categories of libraries based on facility size and breadth of services provided.~~

~~Regional Libraries are the largest facilities with approximately 25,000 to 39,000 square feet offering a comprehensive collection of materials, services and programs. Regional libraries provide services to their local community and support informational needs of all county users on a coordinated and shared basis.~~

~~Community Libraries range in size from 10,000 to 17,000 square feet. These medium sized facilities provide a mix of library services designed to serve the community in which the library is located.~~

~~By agreement, Fairfax County Public Library provides library services to the City of Fairfax. Services to the hard of hearing, visually and physically disabled residents with disabilities are provided by Access Services, housed at the Government Center.~~

~~Until the implementation of the Library's Strategic Plan in 1993-94, the Fairfax County Public Library followed a long range plan that emphasized providing equal distribution of library services throughout the county. The long range plan grew out of a space needs study conducted in the early 1980's. Under this plan, the services available at a library were more determined by the size of the facility than the characteristics of the community served. The organizational structure was hierarchical with resources concentrated in the regional libraries.~~

~~Several significant changes motivated the Library to adopt a strategic planning process:~~

~~Expanding technologies offered new opportunities, and user expectations, to improve information delivery.~~

~~Changing demographics indicated a growing diversity among residents and among communities within the county.~~

~~Increasing costs combined with shrinking resources meant the Library could not continue to equally distribute all services and preserve quality.~~

~~In response to these incentives, tThe Library's strategic plan provides that the array of services, collection and staffing specialties available at each site is designed to support the use-oriented roles of each branch throughout the system support five strategic priorities, each with its own unique set of objectives:- The Library adopted three equally important roles: to provide popular materials; to provide information; and to support lifelong learning. Individual library role assignments are based on the demographics of their community and library use patterns. The provision of complete service for the individual user is accomplished by referrals and an efficient reserve system that moves requested materials to users.~~

- ~~Expand equitable access to library services.~~
- ~~Enhance the library experience through expansion, innovation and integration of technology.~~
- ~~Provide diverse services, programs, and materials to support literacy and development for all ages.~~
- ~~Prioritize and strengthen connections with our communities, schools, and patrons to create mutually beneficial relationships.~~

- Champion workforce development in order to contribute to economic opportunity for all.

~~In addition, new technologies for information delivery are placing new demands on library services. Existing libraries need to be re-designed and renovated to maximize the use of information technologies. New facilities need to be designed to incorporate new technologies.~~

~~Remote access~~

~~enables users to access library services by computer or telephone; this remote access also provides the opportunity to offer document delivery and other information services from a non-traditional site.~~

~~The Library Board of Trustees recognizes that current fiscal limitations restrict the achievement of the Virginia standard of .6 square foot of library space per resident or of the Board's own standard of .5 square foot adopted in 1984. As of July, 2002, there was approximately .39 square foot of library space per resident.~~

## Location

**Objective ~~14~~17:** Locate library facilities to provide service to the greatest number of persons within designated service areas, and provide high visibility, safe and easy access, and ample size for the building, parking areas, landscaping and future expansion.

Policy a. Locate library facilities near major thoroughfares in order to maximize visibility. In general, regional libraries should have the highest degree of exposure and be located on or near arterial roads. All libraries should be easily accessible to the residents immediately served and regional libraries should be accessible to libraries for which they provide support services. Identification of traffic patterns and proximity to other libraries are vital in locating library sites. Proximity to high school/intermediate school sites can be considered provided other library criteria are met.

Policy b. Ensure that access to a facility is from a feeder or collector road directly to a major thoroughfare. This eliminates dangerous turning patterns and unnecessary curb cuts to heavily traveled roads.

Policy c. Locate libraries in proximity to or within commercial-retail areas as this promotes visibility, land use compatibility, and convenience because many library visits are in combination with shopping and work travel.

Policy d. Promote co-location of libraries with other County services so users can combine library visits with accessing other County resources and services promoting visibility and convenience.

Policy e. Locate library facilities on sites that are centrally located in terms of service area, population distribution and distance. Specifically, library locations should be prioritized so that they are integrated into the community, if possible, near community centers with high levels of pedestrian, bicycle and transit access.

~~Policy b. Locate library facilities near major thoroughfares in order to maximize visibility. In general, regional libraries should have the highest degree of exposure and be located on or near arterial roadways.~~

~~Policy c. Ensure that access to a facility is from a feeder or collector street directly to a major thoroughfare. This eliminates dangerous turning patterns and unnecessary curb cuts to heavily traveled roadways.~~

~~Policy d. Locate libraries in proximity to or within commercial retail areas as this promotes visibility, land use compatibility, and convenience because many library visits are in combination with shopping and work travel.~~

Policy f. Promote co-location of libraries with other County services so users can combine library visits with accessing other County resources and services promoting visibility and convenience.

## Character and Extent

**Objective ~~15~~18:** Library facilities should be compatible with adjacent land uses and with the character of the surrounding community and should be sized to provide adequate space for the population to be served.

Policy a. Ensure that a library facility is designed compatibly with the character of its surrounding area.

~~Policy b. Acquire sites for libraries that will be large enough for future expansion, if additional facilities are needed. In general, a site area of 6 to 7 acres is required for a regional facility and 3 to 5 acres for a community facility.~~

Policy ~~b~~e. The total library system should provide at least ~~.4.5~~ square foot of library space per resident. Accordingly, ensure that the population of each library district is served with adequate facilities, ~~based upon the following size and population standards:~~

~~Size:~~ In general, regional libraries should be between ~~30,000 and 40,000~~25,000 and 45,000 square feet. Community libraries should be between ~~10,000~~13,000 and 20,000 square feet.

**Objective 19:** Library facilities should be designed to enhance the library experience through expansion, innovation, and integration of technology.

Policy a. Libraries should be designed with adequate electrical and data infrastructure capacity to support and connect all residents.

Policy b. Individual libraries should offer services and technology that cater to the specific needs of the surrounding community.

Policy c. Libraries should be designed to take advantage of remote access capabilities that enable users to access library services outside of library locations and provide new opportunities to deliver information services in non-traditional ways.

Policy d. Renovations of existing facilities should be redesigned to maximize the use of information technologies and the additional demands placed on the delivery of information services, programming opportunities, digital access, and the collaborative needs of staff and residents.

~~Service population: Regional libraries should serve a minimum population of 100,000. Community libraries should serve a minimum population of 50,000.~~

~~Service area: Based on the local transportation network and average travel times the service area for regional libraries should extend up to six miles, and community Libraries should have a three to four mile service area.~~

~~Objective 16: Library facilities should sustain adequate levels of patronage.~~

~~Policy a. Maintain acceptable levels of circulation and visitor counts for Regional and Community libraries. In general, library facilities should sustain the following levels of monthly circulation:~~

- ~~Regional libraries: at least 50,000~~
- ~~Community libraries: 10,000 to 50,000~~

~~In general, libraries should sustain the following levels of monthly visitor or door counts:~~

- ~~Regional libraries: at least 20,000 visitors~~
- ~~Community libraries: 10,000 to 20,000 visitors~~

~~Policy b. Promote expansion of existing community or regional facilities in stable areas, and new construction of the same in growing portions of the county in order to maintain the planning standard of .4 square feet of library space per resident.~~

~~Policy c. Continue innovative approaches to library service such as remote access by telephone and computer, document delivery to homes and offices, and information kiosks.~~

## PUBLIC SAFETY

### INTRODUCTION

The provision of public safety services is basic to an orderly society and the protection and safeguarding of the health and safety of county residents. For the most part, these functions in the county are the responsibility of the ~~Department of Emergency Management and Security (DEMS) as well as the~~ Police Department, Fire and Rescue Department, Office of Sheriff, Department of Emergency Management and Security (DEMS) the Circuit and General District Court System and the Animal Services Division.

~~Each of these functions is discussed in this section with specific objectives and policies. However, there are certain general guidelines, objectives and policies, that are common to all.~~

**Objective ~~1720~~:** ~~Maintain the high level of training and expand training facilities provided to for public safety officials, including but not limited to police officers, deputy sheriffs, fire and medical emergency personnel and animal wardens, so they either become or remain proficient and qualified in their duties.~~

Policy a. Expand when necessary the Public Safety Academy for sworn police officers and deputy sheriffs based on ~~separate~~ needs analyses for these protective agencies.

Policy b. Expand the Fire and Rescue Training Academy ~~when necessary in fire suppression, medical emergencies and other disaster related training~~ based on a needs analysis for this facility of the Fire and Rescue Department.

**Objective ~~1821~~:** ~~Enhance the operations elements of public safety officials with facilities to properly support the duties of sworn law enforcement officials, fire and emergency personnel and animal wardens~~ protection officers.

Policy a. Provide and locate the ~~major facilities and appurtenances~~ facilities that will have the most optimum effect for public safety telecommunications



necessary for the rapid dispatch of police units, fire and rescue units and animal wardens to the scene of citizen or other agency requests for assistance.

- Policy b. Locate telecommunications facilities and equipment associated with public safety agencies in accordance with communication utility standards presented in the "Public Utilities" section of the Comprehensive Plan.
- Policy c. Locate new public safety facilities in order that adequate space remains on site for future expansions and that public safety agencies which relate closely in their activities or clients are located in close proximity to one another with shared utilization to the extent possible.
- Policy d. ~~Maintain the Massey Building/Support the expansion of Judicial Center Complex as the county's Public Safety Center which will include the expanded Adult Detention Center, juvenile detention facilities, adult and juvenile courts system~~to better serve the needs of the court system and other public safety and human services., and police and fire and rescue main administrations.
- ~~Policy e. Maintain facilities at the Public Safety Center and Emergency Operations Center to be functional and efficient with respect to county environmental guidelines, particularly storm drainage, and pedestrian and vehicle access and circulation. These centers should be aesthetically pleasing, complement existing architecture, and provide for future expansions for a 20-year horizon.~~

## POLICE

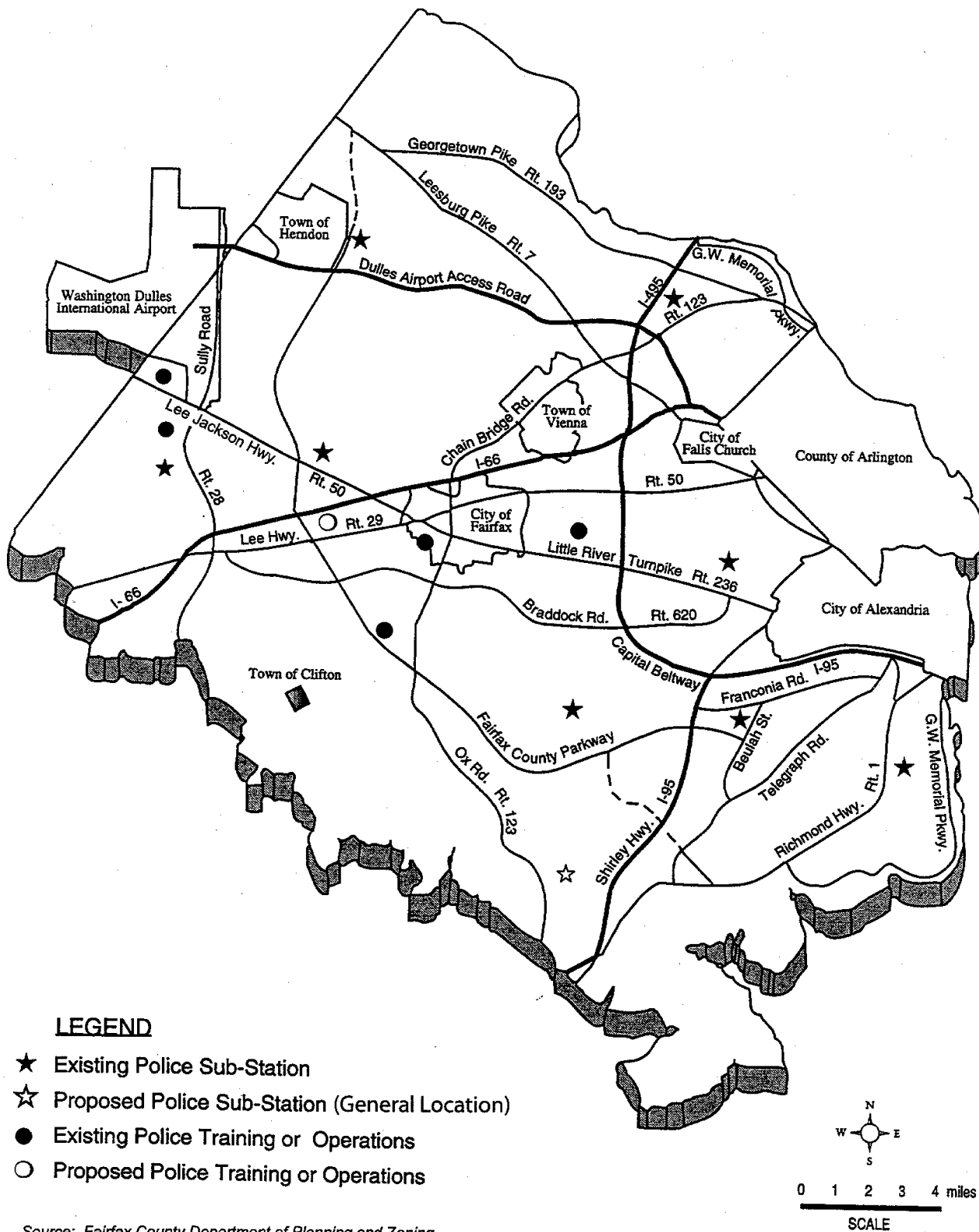
### INTRODUCTION

Due to the nature of the majority of police work, which involves mobile patrol operations, the greatest need for facility space has been and will be for administrative, operational support and training functions. There are no nationally accepted standards for such facilities.

Similarly, there are no nationally accepted service area standards for police patrol areas. Due to the flexible and decentralized nature of police work, the day to day demands on police personnel change and local deficiencies can readily be alleviated through reassignment of officers and vehicles between station and patrol areas.

### Location

- Objective ~~1922~~:** Locate police stations and facilities so as to provide the most efficient and expeditious law enforcement/protective service to the county as a whole and to the individual police districts. ~~(See Figure 2.)~~



Policy a. Locate new police stations near the geographical center of the service area; preferably not in residential areas, but adjacent to commercial areas; compatible with adjoining areas; on a major ~~street-road~~ with good access to all parts of the service area; and adequate parking for police, employees and visitors.

Policy b. Plan for ~~a~~ new police substations in ~~the southeastern part~~ growing areas of the county.

Policy c. Plan for a new enhanced training campus to be co-located with Emergency Vehicle Operation, Firing Range, and K9 facilities.

~~Policy c. Evaluate the need to expand helicopter fleet facilities at the West Ox Road facility as determined by a needs assessment for this special operation or any changes in the Police Department policies which would require an expansion or change to the helicopter fleet. Evaluate the need for an alternate location for the police helicopter fleet in the southeastern part of the county to provide citizens with quicker response times for Medevac flights and for responding to traffic incidents on the I-95 corridor and Springfield interchange.~~

Policy d. Evaluate the need for locating a centralized police vehicle storage center, to provide a secure area for vehicles involved in fatal accident investigations, surveillance vehicle storage, and police vehicle preparation. This facility should be centrally located in a commercial area in the county and have adequate security.

~~Policy e. Evaluate the need to establish a combined Police/Fire and Rescue boat docking facility in a location that would allow for the immediate launching of boats along the coastal boundaries of Fairfax County.~~

~~Policy f. Evaluate the need for a police mounted unit, preferably in a location easily accessible to the county's existing trails and parks network. A horse mounted unit would provide high visibility patrols, crowd control, and search and rescue capabilities. Mounted officers would work with community organizations, school educational programs, and youth programs.~~

Policy e. Evaluate and support any identified need for a new Administrative Headquarters or Detectives Bureau facility.

Policy f. Evaluate and support any identified need for an Officer Wellness and Incident Support Services (ISS) facilities.

#### Character and Extent

**Objective ~~2023~~:** Maintain or establish facilities that allow Police Department personnel to operate at maximum effectiveness.

Policy a. Plan, locate and construct new police facilities based on ~~35-40~~ square feet per sworn officer per shift.

- Policy b. Size stations to meet the expected level of police service required to protect people and property located in the service area. Encourage the use of natural landscape elements such as trees, berms, and other privacy screens to limit direct line of site.
- Policy c. Construct new police stations on a minimum of ~~two-three~~ acres in order to provide the necessary minimum station square footage for civilian personnel, sworn officers, equipment, department and visitor vehicles.
- Policy d. Construct new police stations on a minimum of ~~five-six~~ acres when co-located with one other public facility such as a governmental center for a supervisor district or a fire and rescue station.
- Policy e. Coordinate with the Human Services Department, Fairfax-Falls Church Service Board, and other social service providers to designate space and resources within or near police facilities that will provide social services and diversion first efforts to individuals and families.

## FIRE AND RESCUE

### INTRODUCTION

Fire and rescue stations in the county are located to provide maximum coverage based on a total response time of seven minutes, which is further defined as a five-minute travel response and two-minute preparation time from the time the emergency call is received. This response goal is critical to providing effective fire suppression as well as emergency medical services. Provision of service recognizes economical constraints and certain basic guidelines, however, increased requests for service and significant traffic volume create delays which may impede the attainment of this goal.

~~The~~ ~~\_\_\_\_\_~~ ~~The~~ county's adopted *Fire and Rescue Station Location Master Plan* assumes that stations can be located to enable a seven-minute response time to at least 95 percent of the county's population. ~~This assumption was based on population and call volume projections that have been exceeded. If a~~ All projected stations in the Master Plan ~~are have been built constructed as planned~~ well as an additional fire station in the Tysons area, ~~it is likely that~~ Currently, the response time goal ~~will can~~ be reached approximately 90 percent of the time ~~and 93 percent of the time when including mutual aid fire stations from neighboring jurisdictions. As population increases in dense areas of the county, it is anticipated that the 95 percent goal will be achieved. Therefore, a study of the placement of future infill stations needs to be undertaken.~~

The fundamental element in facility planning is determining future demand for emergency services, ~~the~~ ~~The~~ ~~initial~~ ~~initial~~ methodology ~~for which is~~ defined in the *Fire and Rescue Station Location Master Plan* ~~has been enhanced with the use of data analytics~~. While providing new facilities to meet ~~the~~ increasing demand is expected to be a primary focus for the Fire and Rescue Department, it is ~~becoming~~ apparent that existing facilities ~~will~~ require additions and rehabilitation to accommodate necessary emergency response equipment. Continued analysis of resource utilization may result in redeployment ~~or additional~~ ~~of~~ equipment ~~to in~~ heavier demand areas.

### Location

**Objective ~~2124~~ 24:** Establish and maintain at a minimum, a ~~seven-minute total response time coverage for fire and rescue emergencies to at least 95 per cent of the county's population.~~ ~~(See Figure 3.)~~

Policy a. Plan, locate and construct new fire stations based on the standards and guidelines and when the following conditions are met:

—The projected service area of a new station has a population density of 1,000 persons per square mile;

•

—The projected service area is greater than two square miles;

•



~~—The projected service area is estimated to experience an activity level of 730 calls annually or an average of two per day; and~~

~~•  
—Those service areas which are never expected to meet the population density or incident activity criteria due to land use restrictions should receive consideration for a mini (less than 9,500 square feet) fire station when they encompass eight square miles or more.~~

Policy b. Locate new fire and rescue stations at the most strategic point in a proposed service area to achieve a seven-minute total response time coverage to all points of the area and/or provide the most optimum service to that area based on ~~the service area void map of the Station Location Master Plan and the locational criteria of the Plan~~ to include the following:

~~•  
—Locate stations close to intersections where there is no problem with highway access;~~

~~•  
—Avoid locating stations directly on heavily traveled major arteries; rather, locate on a parallel road or cross road with a traffic signal with pre-emption capability at a nearby intersection for efficient egress/ingress;~~

~~—Avoid hillside locations or locations at the bottom of hills when many responses must be made upgrade;~~

~~•  
—Avoid locating stations directly on heavily traveled major arteries; rather, locate on a parallel street or cross street with a traffic signal with pre-emption capability at a nearby intersection for efficient egress/ingress;~~

~~—Locate stations on paved roads, preferably state maintained with shoulders and a minimum of curves in the immediate vicinity of station access;~~

~~—Locate stations on relatively flat topography and provide the opportunity to buffer the station from adjoining properties;~~

~~•  
—Locate stations on the side where the greatest hazard or higher incident activity exists, where there is either a man-made or natural obstacle such as a railroad or river; and~~

~~•  
—Locate stations to minimize service area overlap and to provide coverage to areas not within five minutes of an existing station. When a new station is required to remove an existing service void and there is unavoidable overlap with other existing service area, the new station should be located so that any service overlap benefits the high-risk/high density areas and alleviates the response requirements of other high activity areas.~~

Policy c. In addition to the regular review of fire station needs, plan and implement

operational policies which enhance the ability of fire and emergency medical personnel to meet a seven-minute total response time from existing stations.

#### Character and Extent

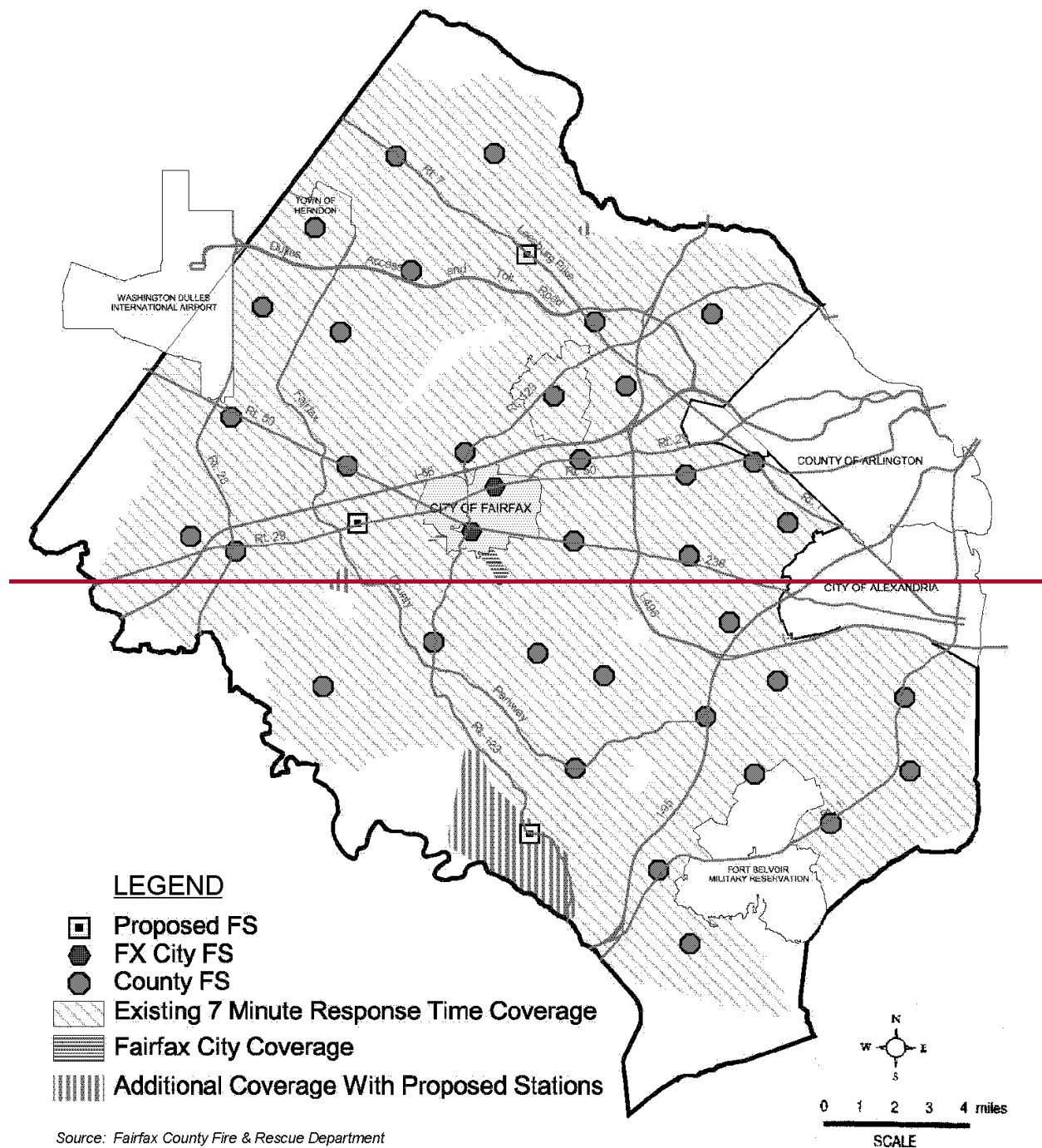
**Objective ~~222~~5:** While adhering to constructing new full service fire stations of a minimum 14,000 square feet, all efforts should be made to construct new stations to be compatible with the surrounding community.

Policy a. New fire stations should consider the following site/design guidelines:

— Be constructed on sites of approximately ~~five~~ two acres;

•

• — ~~and b~~ Be designed to be compatible with the character of the surrounding area.



**FIRE AND RESCUE STATIONS  
SEVEN MINUTE RESPONSE TIME COVERAGE**

**FIGURE 3**

Other

~~Objective 23: Safeguard the county's investment and ensure appropriate positioning of the Fire and Rescue Department's specialized emergency response equipment.~~

~~Policy a. Plan to establish a combined Police/Fire and Rescue boat docking facility in a location that allows for the immediate launching of boats along the coastal boundaries of Fairfax County.~~

**SHERIFF****INTRODUCTION**

~~The number of sentenced offenders requiring maximum security detention has continued to grow, reflecting the increased growth and development of the county. Nonviolent offenders must also be housed in the ADC due to lack of space in detention alternative programs that exist in the county and elsewhere. The Sheriff's Office provides services to the residents of Fairfax County, Fairfax City, and towns of Herndon and Vienna by operating a secure and humane Adult Detention Center; providing security for the Judicial Complex; and executing civil law process on behalf of the courts.~~

Other

**Objective ~~24~~26:** Meet the State Department of Corrections rated capacity standards for Average Daily Population at the Adult Detention Center (ADC) and provide for sentenced offenders not incarcerated at the ADC.

Policy a. The county should utilize excess unused space in the ADC, until such time that it is needed for its intended purpose. ~~Based on financial considerations and/or the temporary needs of other county agencies, such space could be effectively utilized by leasing to other county or outside agencies.~~

Policy b. Continue to follow guidelines, standards and procedures for jail renovations and additions as established by the American Corrections Association for any additions to the ADC.

Policy c. Continue to study, plan, and construct alternative adult correctional programs and facilities ~~such as the Work Training Facility at the Criminal Justice Collocation Site in Chantilly.~~ These programs and facilities are for sentenced non-violent adult offenders which require minimum security detention facilities. New facilities of this type should be located ~~at-at either existing or planned clustered county public facility centers throughout the county. For example, the county Governmental Center,, the Massey/Judicial Complex,, or police district stations.~~ Locations in residential areas should ~~not occur be avoided.~~ Use the *American Corrections Association's* guidelines and standards for the design and size of any new facilities.

Policy d. In the planning of new correctional facilities, assess and consider options which are, or represent, alternatives to incarceration.

**Objective ~~2527~~:** Provide facilities for inmates to serve their sentence with opportunities not otherwise available in confinement to include: work release, education programs, rehabilitative programs in the community, and weekend community service as alternatives to incarceration.

     Policy a. Establish a plan for the County to include facility, site and location standards for alternative incarceration programs.

## COURTS

### INTRODUCTION

The court system, comprised of the 19th Judicial Circuit Court and the General District Courts, primarily involves the administration and enforcement of justice based on civil and criminal laws of the Commonwealth of Virginia. These court's facilities, ~~with the exception of the District Court's Magistrates System which occupies space in the Adult Detention Center and a substation in Mt. Vernon, are~~ are primarily located at-on the Judicial Center/Courthouse Complex in Fairfax City in the Fairfax County Courthouse. General District Court also operates court out of the Town of Herndon, the Town of Vienna, and the City of Alexandria. Magistrates occupy space in the Adult Detention Center and a substation in Mount Vernon. Although completed in 1982, there continues to be an increase in the number of criminal, traffic and civil cases heard, creating a need for more court rooms, staff offices and judges chambers. Space for retention of court records, as required by code, continues to be an important requirement of the Court system.

### Location

**Objective ~~2628~~ 2729:** Maintain a central location for the main court system for the County to be convenient to all County residents.

Policy a. Plan and locate new or expanded facilities at the Judicial Center/Courthouse Complex so that centrality of this service is preserved and that other related criminal justice agencies existing at the complex remain in close proximity.

#### Character and Extent

**Objective ~~2729~~ 2729:** Maintain the efficient and expedient processing and adjudication of cases of the 19th Judicial Circuit Court and General District Court of Fairfax County by providing the necessary facilities to accomplish such actions.

Policy a. Plan and construct additional court space in accordance with needs analyses and avoid deferring expansion to a point where unsatisfactory conditions exist.

Policy b. Prioritize the courts' needs for location within the courthouse while also supporting co-location of other non-core court functions within the Judicial Complex through the *Judicial Complex Master Plan*.

Policy c. Continue to follow guidelines and standards for renovation and additions consistent with the Supreme Court of Virginia Office of the Executive Secretary – *Virginia Courthouse Facility Guidelines*.

Policy d. Adapt and modernize facilities to embrace new scalable technologies that optimize services delivery and improve access to justice for all residents.

#### ANIMAL CONTROL

#### ANIMAL SERVICES DIVISION AND THE DEPARTMENT OF ANIMAL SHELTERING

##### INTRODUCTION

The Animal Services Division ~~is a division~~ of the Fairfax County Police Department. ~~The primary role of the Animal Services Division is to~~ safeguard ~~the residents~~ residents/citizens of the county against stray and unwanted animals; protect ~~citizens~~ residents and animals from certain animal diseases, ~~enforce the state and local animal related laws and ordinances, and to control and enforce the licensing of dogs and rabies inoculation of domesticated animals and address all issues concerning wild-life.~~

~~In 1975, the county constructed an Animal Shelter for the Department of Animal Control to provide holding and processing areas for unwanted and stray dogs and cats, to enforce the~~



~~county ordinance regarding animals and the Virginia State Code regulation for the protection and prevention of cruelty to animals. The Shelter also provides administrative space and a classroom for humane education. In 1988, the shelter was expanded to include more space for human needs rather than for animals. Animal space has become less adequate and during certain times of the year – spring and summer – is not adequate to house potentially adoptable animals. It is recognized that shelter space for animals has diminished as the population has grown and more services are provided and there will be a subsequent need to care for more pets, more strays, particularly cats, and a larger displacement of wild animals from their natural habitats due to development. There will also be an impact because more laws are being enacted to protect animals.~~

~~There are no generally accepted standards used to plan animal shelters. However, the following determination was made through a preliminary needs analysis by the Animal Services Division:~~

~~To prepare for the continued increase in animals and humans that utilize the Animal Services Division, a new shelter is planned for the southeast portion of the county. This new facility will offer additional benefits to the department and county residents by providing greater accessibility to county residents in the eastern half of the county for all division services; more holding space for dogs and cats; additional education rooms, additional animal control officer workspace, other than the main facility on West Ox Road, which will mitigate additional travel time to and from animal pickups or incidents for animal control officers patrolling this portion of the county; and assist/prevent overcrowding and overburdening the main Animal Shelter.~~

#### Location

**Objective ~~2830~~:** ~~Provide for convenience of Animal Services Division services to all county residents by maintaining the current shelter locations on West Ox Road and providing an additional satellite shelter in the eastern half of the county~~the Lorton Campus.

~~Policy a. Locate a new satellite animal shelter in the southeast portion of the county. A preferable location in the Springfield/Mt. Vernon area will help decentralize service currently available in only one facility in the county and provide easier access to residents/citizens in the eastern part of the county.~~

#### Character and Extent

**Objective ~~2931~~:** ~~Continue to provide convenient pet adoptions, licensing, vaccinations, and education services to county residents and the necessary facilities for managing all phases of animal control~~Animal Services Division and safety.

~~Policy a. Continue to plan and construct a new facility of comparable size to the existing shelter, for the southeast portion of the county. The new facility should, if possible, collocate with other county facilities for convenience. Plan and renovate the existing West Ox Road Animal Shelter facility to accommodate the current need for expanded parking, as well as future staff and animal needs. The renovated facility should, if possible, include a high clearance parking deck and a second floor on the building.~~

## UTILITIES AND SERVICES

The provision of utility infrastructure is essential to development. Homes and businesses cannot function without water, electricity and a system of waste disposal. Other services, such as telephones, communication towers, and cable television, are highly preferable in a region which thrives on the rapid exchange of information. Additionally, the county government constructs drainage systems to correct drainage problems and maintains extensive garage and maintenance facilities for county vehicles.

The following utilities and services are addressed in this section:

- Water Supply
- Sanitary Sewer
- Solid Waste
- Drainage Systems and Improvements
- County Vehicle Maintenance Facilities
- Public Utilities
  - —gas
  - —electric
  - —telephone
- Communication Towers

## WATER SUPPLY

### INTRODUCTION

Residents of Fairfax County receive public water service from ~~one of three water agencies; the~~ Fairfax County Water Authority, ~~City of Fairfax Department of Transit and Utilities, or the Falls Church Department of Public Utilities.~~ (The Towns of Vienna and Herndon, while operating their own water distribution systems, purchase water from ~~the City of Falls Church and the~~ Fairfax ~~County~~ Water ~~Authority, respectively~~. In terms of building major capital facilities to meet water supply needs, the towns are dependent of these two water agencies.) According to ~~2022 recent~~ estimates, ~~d averages~~, ~~seventy-nineninety-seven~~ percent of Fairfax County residents are served by ~~the Fairfax County Water Authority, Falls Church serves thirteen percent, the City of Fairfax one percent,~~ and the remaining ~~seven-three~~ percent of the residents receive water from ~~individual-private~~ wells.

### Location

**Objective ~~3032~~:** Locate sites, for adequate and appropriate facilities to treat, transmit and distribute a safe and adequate potable water supply, ~~which to~~ conform to the land use goals of the Comprehensive Plan.

- Policy a. Elevated water storage tanks and standpipes should be grouped together, designed to harmonize with surrounding development, and be screened as much as possible.
- Policy b. Locate booster pumping stations, wherever feasible, in well-buffered, attractively designed structures.
- Policy c. Encourage the early acquisition of sites for distribution and storage facilities where development activities are imminent. This must be done before the area develops, so that neighborhood disruption and costs are minimized.
- Policy d. Locate water lines to minimize impacts on environmental features such as stream valleys, wetlands, and forested areas.

### Character and Extent

**Objective ~~3133~~:** Plan and provide for facilities to treat, transmit and distribute a safe and adequate potable water supply.

- Policy a. Maintain ~~—sufficient water treatment and distribution capacity to meet demands. Update demand projections on a periodic basis to reflect current consumption trending, peaking factor data, and service area population and employment forecasts. the 110 gallons per person per day guideline for the provision of water with a peak factor of 1.6 times the estimated average day demand to determine maximum daily demand. The 110 gallons is derived from total water sales (including commercial, industrial and institutional uses) and the estimated population served.~~

~~Policy b. —Maintain the standards established for fire protection flows as follows;~~

- ~~—One and two family dwellings, 1,000 2,000 gallons per minute depending on separation.~~

~~—Townhouses and multiplex units, 2,500 gallons per minute.~~

~~—Commercial, office, industrial, 2,500 gallons per minute.~~

Policy ~~eb~~. Coordinate all ~~Water Authority~~Fairfax Water projects by continuing the Water Facilities Agreement between the Board of Supervisors and the ~~Water Authority~~Fairfax Water which requires:

~~—Fairfax County Board's review and approval of the ~~Water Authority's~~Fairfax Water's Capital Improvement Program (CIP) as part of the county's CIP;~~

~~•~~

~~—Fairfax County Board's approval of proposed water facilities including water mains greater than ~~16~~24" in diameter in accordance with Section 15.2-2232 of the *Code of Virginia*, as amended; and~~

~~•~~

~~•Notification to individual Board of Supervisors members and the Chairman of water main extensions ~~16~~24" or less in diameter in their districts.~~

Policy d. ~~—Continue the implementation of expansion and improvement programs at the water treatment facilities.~~

Policy ~~ec~~. Pursue strategies to reduce the per capita consumption of water.

Policy ~~fd~~. Promote opportunities, including formation of water districts, for extending access to water service to communities or areas within Fairfax County that are threatened by failure of private wells and are without public water service as long as such districts do not require the ~~Water Authority~~Fairfax Water to contribute more than provided for under ~~the Water Authority's~~Fairfax Water's Bad Well Policy, dated ~~January 7, 1993~~June 3, 2021, which specifies the conditions and terms for financial assistance.

## SANITARY SEWER

### INTRODUCTION

Fairfax County provides sanitary sewer through a system of over ~~3,100~~3,300 miles of sewer lines, ~~64-63~~ pumping stations and one treatment plant owned and operated by the county, the Norman M. Cole, Jr. Pollution Control Plant. Additional treatment capacity is provided by contractual agreement with the ~~District of Columbia~~DC Water, the Alexandria ~~Sanitation Authority~~Renew, Arlington County and the Upper Occoquan Sewage Authority.

It is important that the location and timing of sanitary sewer facility construction be supported by specific public facility standards and Plan recommendations.

#### Location

**Objective ~~323~~4:** Provide public sewer in accord with the approved sewer service area and ~~in support of the county's land use objectives~~the Statement of Policy Regarding Sewage Disposal. (See Figure 4.)

Policy a. Limit expansion of the approved sewer service area to ~~areas which~~which are planned for uses which require such infrastructure and which are contiguous to the existing approved areas.

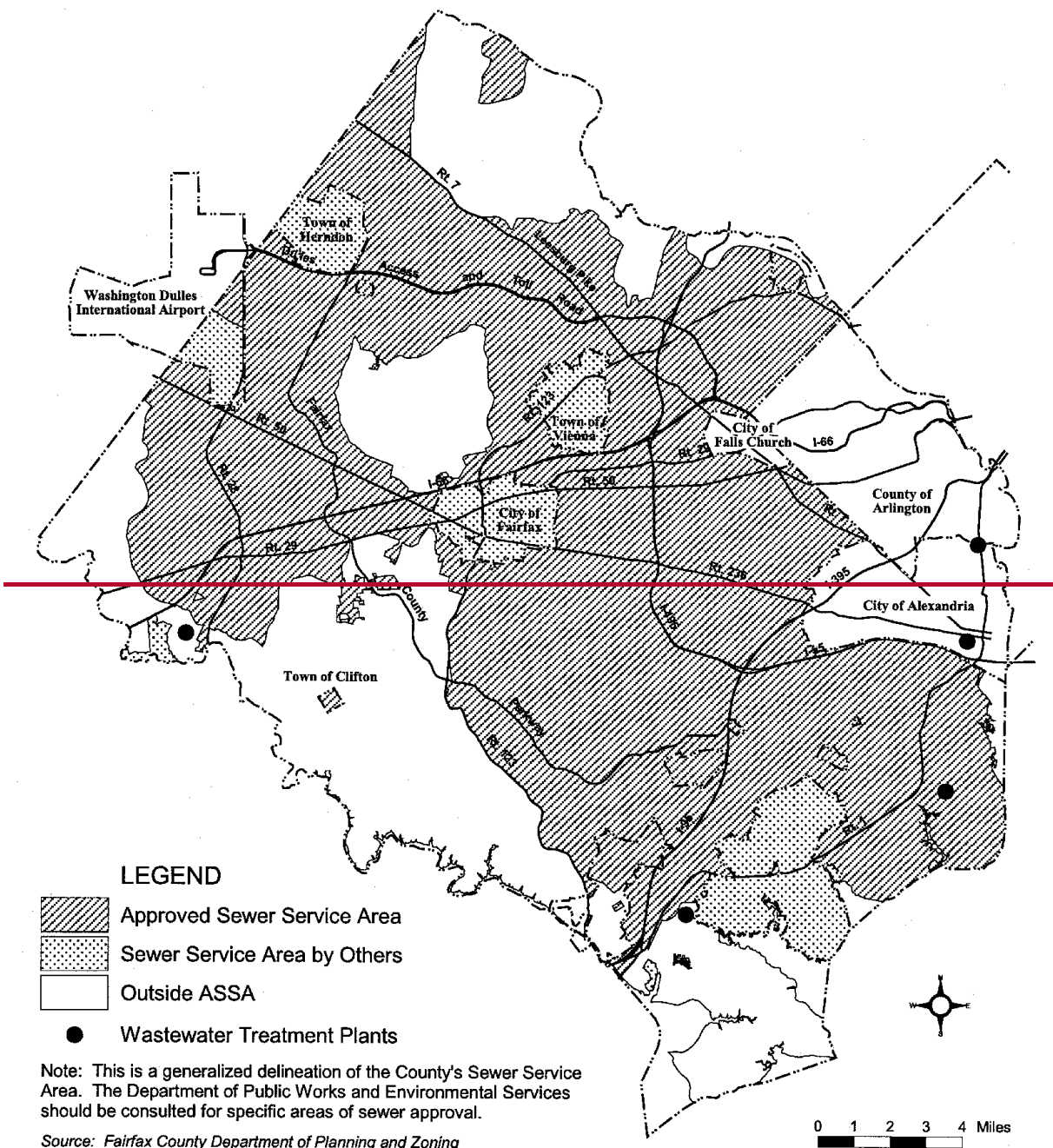
Policy b. Locate sewer lines to minimize impact on environmental features such as stream valleys, wetlands, and forested areas.

Policy c. Expansion of the approved sewer service area should not occur until other public infrastructure is available or funded, ~~or~~ programmed in the Capital Improvement Program and is adequate to support development of the area already approved for sewer and the area proposed for expansion.

#### Character and Extent

**Objective ~~333~~5:** Maintain a system of conveyance and treatment facilities that is responsive and compatible with the development and environmental goals of the county, ~~and~~ provide necessary renovations and improvements that will permit the entire system to function at a high level of efficiency.

Policy a. Plan and design sewer facilities in accordance with the Public Facility Manual (PFM)~~following standards. This flow is based on a combination of population and land uses and is determined by the following factors:~~



**APPROVED SANITARY SEWER AREA  
AND WASTEWATER TREATMENT PLANTS**

**FIGURE 4**



Design Flow  
Type of Development ————— (Gallons Per Day)

Residential

General	100 gallons per person
Single Family	370 gallons per residence
Townhouse Unit	300 gallons per unit
Apartment Unit	300 gallons per unit

Commercial

General	2,000 gallons per acre
Motel	130 gallons per unit
Office	30 gallons per employee or .20 gallons per square foot

Industrial

General	10,000 gallons per acre
Warehouse	600 gallons per acre

School Site

General	16 gallons per student
---------	------------------------

- Policy b. Design and construct the overall sewer system so as to minimize the need for sanitary sewer pumping stations.
- Policy c. Schedule priorities in the planning and construction of sewerage systems so that actual plus committed sewage flow does not exceed the capacity of the treatment facilities.
- Policy d. Where existing development without public sewer is experiencing public health problems caused by failing septic or individual sewage disposal systems, consider the appropriateness of conventional public sewer, pump and haul or other methodologies to remedy public health hazards.

## SOLID WASTE AND RECYCLING

### INTRODUCTION

The mission of the Solid Waste Management Program (SWMP) is to protect the public interest through solid waste management planning and regulatory oversight of the County's refuse ordinances, and to provide efficient and effective collection, recycling, and disposal of solid waste for ~~customers~~ the community in an environmentally responsible manner.

Refuse collection and recycling services are available to ~~all citizens~~ residents and businesses ~~by either~~ through private contractors ~~and/or county vehicleless services provided by~~

county collection forces. Currently the county operates two permitted solid waste management disposal facilities, the I-95 Landfill Complex and the I-66 Transfer Station, both of which include with their ancillary operations such as landfill gas collection and energy recovery, brush grinding, and vehicle parking.

A ~~Citizen's~~ Recycling and Disposal ~~Facility-Center~~ is maintained at each of these sites which allows residents to ~~both~~ recycle selected components of their waste and dispose of the remaining non-recyclable materials. The county also operates a facility in the Newington area for parking and maintenance of refuse collection vehicles that serve county Sanitary Districts.

The ~~I-95 E~~Covanta Fairfax ~~energy-from-waste /Resource Recovery F~~facility, owned and operated by Covanta Fairfax, LLC, is located at the I-95 Landfill Complex and serves as the County's primary resource for waste management. The plant which began commercial operations in June 1990, has a design capacity of 3,000 tons per day and generates approximately 80MW of electricity, which for sale is sold to a local utility.

~~In addition, the county has a~~SWMP's ~~w~~Waste ~~r~~Reduction and ~~r~~Recycling ~~p~~Program ~~which~~ has met or exceeded the state-mandated recycling ~~rate goal (25 percent)~~ since its enactment.

#### Location

**Objective ~~3436~~:** Provide conveniently located solid waste management facilities and operations, while ensuring that these facilities area compatible ~~—~~with adjacent land uses. ~~(See Figure 5.)~~

- Policy a. Continue to modify the I-95 Landfill Complex and the I-66 Transfer Station as necessary to ensure compliance with federal and state regulations, as well as accommodating the needs of the community.
- Policy b. Add facility enhancements at the I-66 Transfer Station and I-95 Landfill to allow environmentally sound and efficient collection, recycling, transfer and disposal of refuse and recyclable materials. Maintain access to the I-66 Facility from West Ox Road and the I-95 Facility from Furnace Road.
- Policy c. Maintain ~~existing R~~recycling ~~Dropdrop-off Centers-centers~~ to serve residential and business customers. ~~Where possible, recycling centers should be located at convenient locations while ensuring that these facilities are compatible with adjacent land uses.~~
- Policy d. Apply public and worker safety, traffic, and environmental protection criteria to the selection of future sites for the collection, recycling, transfer, and disposal of waste and recyclable materials.
- Policy e. Continue landfill gas collection/processing systems at the I-66 facility and I-95 complex to allow utilization of decomposition gases for beneficial purposes.

#### Character and Extent

**Objective ~~3537~~:** Provide an efficient, cost effective, and environmentally sound,

**comprehensive solid waste management system that meets the current and future needs of the county.**

- Policy a. Complete ~~a~~-new 20-year Solid Waste Management Plan for the county ~~by June 2004~~2025, as required by state regulations.
- Policy b. Prior to the expansion of ~~the Energy/Resource Recovery Facility or other~~ waste management facilities, comprehensively consider the costs, benefits and effects of other alternatives including recycling and waste reduction for the protection of the public health, public safety, the environment, and natural resources.
- Policy c. Encourage public/private partnerships for environmentally safe and economically sound collection, recycling, and disposal.
- Policy d. Maintain the mandatory countywide collection of yard debris for recycling.
- Policy e. Provide for a consistent level of cost ~~\_~~-effective service for refuse and recyclables collection throughout the county.
- Policy f. Maintain the I-95 Landfill Complex to provide adequate ash disposal capacity ~~through at least FY 2020~~.
- Policy g. Use cost-effective, environmentally-conscious state-of-the-art technology technologies and industry best management procedures-practice in solid waste management to protect and/or improve the county's environmental quality.
- Policy h. Provide for environmentally safe and economically sound, collection, recycling, and disposal of household and Very small-Small quantity-Quantity generator-Generator (VSQG) hazardous waste to prevent pollution in the county.

**Objective ~~363~~38: Provide a waste reduction and recycling program readily available to all, that meets the current and future needs of the County.**

- Policy a. Continue the county's solid waste management system, promoting a strong preference for the practices of wWaste rReduction and rRecycling program consistent with the integrated-established solid waste management hierarchy. The program currently includes specialty materials and recycling drop-off centers, yard debris management, curbside collection of designated recyclable materials, scrap metal recycling and commercial and institutional recycling of designated materials.
- Policy b. Continue to promote citizen and private sector participation in all waste reduction recycling and hazardous waste collection programs.
- Policy c. Continue to support composting of food scraps and organic material by offering and/or expanding locations and services for residents to dispose of these materials. The Park Authority provides composting locations at local farmers markets across the county and the I-95 Landfill Complex provides composting drop-off bins.

## ~~DRAINAGE SYSTEMS AND STORMWATER MANAGEMENT FACILITIES~~

### INTRODUCTION

Rapidly urbanizing watersheds present a myriad of potential problems for the county's drainage system. Construction activity can generate sediment at hundreds of times the normal rate. Impervious pavements increase both the volume of stormwater runoff and the magnitude of peak flood flows. Runoff from urban areas is often highly polluted with pesticide and nutrients as well as oils and toxic metals. ~~Older neighborhoods that were developed before the establishment of effective stormwater management regulations may lack adequate stormwater management facilities, both privately and publicly maintained, and may experience storm drainage issues that more recent design standards would have addressed.~~ The net result of these problems is that water quality is seriously degraded, property damage is excessive ~~and in many instances~~, and, in many instances, the aesthetic quality of natural areas is destroyed. Urban flooding is the top climatic vulnerability for Fairfax County, due to the combination of increasing impervious surface, inadequate stormwater management and drainage facilities, and increasing intensity of precipitation events.

#### Location

**Objective ~~37~~39:** **Provide for a comprehensive drainage improvement and stormwater management program to maximize property protection and environmental benefits throughout the watershed.**

Policy a. Locate stormwater control facilities to correct problems that affect the greatest number of persons or structures.

Policy b. Locate drainage structures and Best Management Practices (BMPs) in conjunction with new development and redevelopment to minimize future problems.

Policy c. New facilities shall be in harmony with the County's Comprehensive Stormwater Management Program's mission that includes the implementation of structural improvements for stormwater facility retrofits, to improve water quality, minimize the impacts of flooding, and encourage the continued installation of green stormwater infrastructure.

Source: Fairfax County Department of Planning and Zoning

SCALE

**SOLID WASTE FACILITIES**

**FIGURE 5**

DRAFT

- Policy ~~ed~~. Locate regional stormwater management facilities where feasible throughout the county to maximize pollutant removal, streambank erosion protection, and flood control.

#### Character and Extent

**Objective ~~3840~~:** Provide a system of drainage facilities that prevents or minimizes structure flooding, stream degradation and traffic disruption in an efficient, cost effective and environmentally sound manner.

- Policy a. Continue enforcement of the county's ordinance for erosion and siltation control.
- Policy b. Continue to regulate development on filling land within the 100 year floodplain.
- Policy c. Continue to implement the county's Regional Stormwater Management and Master Drainage Plans.
- Policy d. Encourage a regional approach to stormwater management in developing and in redeveloping sites.
- Policy e. Expand existing programs to implement best management practices (BMPs) in all areas of the county not currently served by BMPs.



## VEHICLE MAINTENANCE FACILITIES

### INTRODUCTION

Maintenance and repair services to the county's automotive and equipment fleet are provided by the Department of Vehicle Services (DVS) in maintenance facilities located throughout the county. Related to the DVS maintenance facilities are more specialized types of repair/service facilities, such as the radio repair/installation facility operating at the Jermantown Road Facility, and the Fairfax County Fire and Rescue Department (FCFRD) Apparatus Maintenance and Repair Facility located at the Newington ~~Maintenance Facility and West Ox maintenance facilities.~~ Finding appropriate locations for maintenance facilities, however, is extremely difficult, given their size and the nature of the activities conducted at these facilities. By the year 2012 fleet growth is projected at over 1,000 vehicles consisting of approximately 700 school buses and 300 public safety vehicles (to a total of 6,300). At least one additional maintenance facility will be required, preferably in the northwestern county area.

### Location

**Objective 3941:** Ensure that county vehicle maintenance facilities are located on adequate and appropriate sites. (See Figure 6.)

- Policy a. Locate any new facility in proximity to the center of its designated service area, which is a determined geographic region based on fleet distribution.
- Policy b. Ensure that access to each facility is oriented to an arterial ~~roadway~~ roads.
- Policy c. Plan for an additional vehicle maintenance facility, preferably in the northwestern area of the county.

#### Character and Extent

**Objective ~~40~~42:** Consider established design and service area standards when planning new county vehicle maintenance facilities.

- Policy a. Provide screening and buffering around each facility in excess of Zoning Ordinance requirements in order to minimize the impact of this use.
- Policy b. Ensure that all facilities protect the water quality of nearby water courses by providing the most efficient stormwater Best Management Practices (BMPs) to control run-off from building and parking areas.

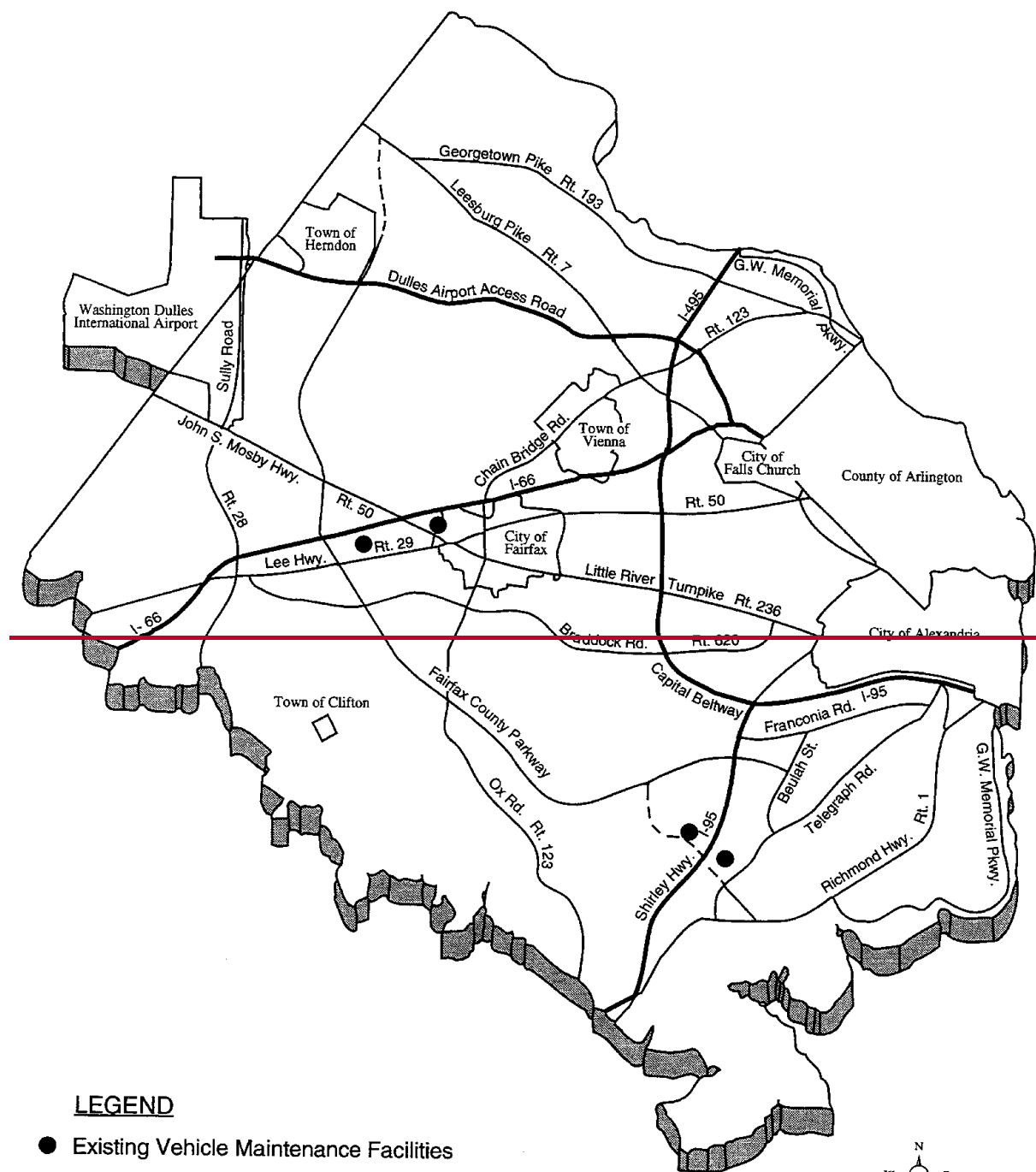
## ELECTRICAL AND LAND-LINE UTILITY SERVICES

### INTRODUCTION

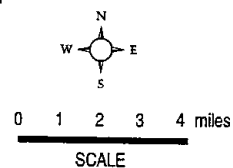
Electrical and land-line utility services include electrical, communication and cable facilities, which are provided through a wired infrastructure and viewed, for the most part, as absolute necessities. The need for electrical, communication, and cable facilities accelerates commensurate with development. As the need for sites increases, so does the scarcity of appropriate land for construction of these facilities. The objectives and policies set forth in this section provide guidance on siting and design issues and are to be used in evaluating land use applications. They should not be interpreted as superseding or amending any requirements of the Zoning Ordinance or other local, state and federal laws pertaining to these issues.

**Objective ~~41~~43:** Locate electrical and land-line service facilities to provide maximum service levels as unobtrusively as possible. ~~(See Figure 7.)~~

- Policy a. Avoid areas of environmental sensitivity.
- Policy b. \_\_\_\_\_ Collocate facilities such as distribution and transmission poles, switching and hub centers and electrical substations whenever feasible and appropriate to minimize visual and neighborhood impacts.
- Policy c. Plan for existing and future needs of facilities in conjunction with emerging development designs, including the needs of residents and business for broadband infrastructure.
- Policy d. Provide adequate acreage for expansion of substations, hub centers and equipment areas and maintain levels of screening to accommodate expansion.
- Policy e. Locate future switching and hub centers, equipment areas, and electrical substations on sites, which shield nearby residences from noise, while affording privacy and safety.



Note: A need for additional Vehicle Maintenance Facilities has been identified in the northwestern portion of the County and in Merrifield.



**MAINTENANCE FACILITIES**

**FIGURE 6**

DRAFT

Policy f. \_\_\_\_\_—Construct underground transmission and distribution lines, whenever possible, \_along existing or planned utility or road rights-of-way, preferably on lot lines which will least disturb future development of the site.

Policy g. Locate future above-ground transmission lines along railroad rights-of-way, where possible, and when in keeping with adjacent development. Placement of transmission lines should not compromise the objectives of the Comprehensive Plan. Visual impact should be a key element in the evaluation of proposed transmission line locations.

Policy h. Regulate new development where permissible to minimize unnecessary human exposure to unhealthful impacts of ~~low—level~~low-level electromagnetic fields from electrical transmission lines.

Policy i. Utilize existing towers and poles to support electrical and land-line utility services whenever possible, to reduce the need for new towers and poles. However, avoid overloading existing towers and poles with related equipment.

Policy j. Locate new towers required to support electrical and land-line utility services in areas of commercial or industrial land uses. Locate in residential areas only when other, more suitable land uses are not available, \_and on parcels, ~~which—that~~ afford natural screening adjacent to nearby structures or planned land uses.

**Objective 4244:** Meet service area requirements with a minimum of facilities and ensure that those facilities are designed to minimize impacts on adjacent properties.

Policy a. Provide justification for the proposed facility's need. Specify alternative actions and justify why the proposed location and type of facility is the least disruptive.

Policy b. Mitigate the visual impact of switching and hub centers, equipment areas and electrical substations from adjacent development. Land with existing mature vegetation is preferable, as are access roads which obscure entrances, berms which provide screening, and slopes that provide localized lower elevations.

Policy c. Locate transmission and distribution lines underground, whenever possible.

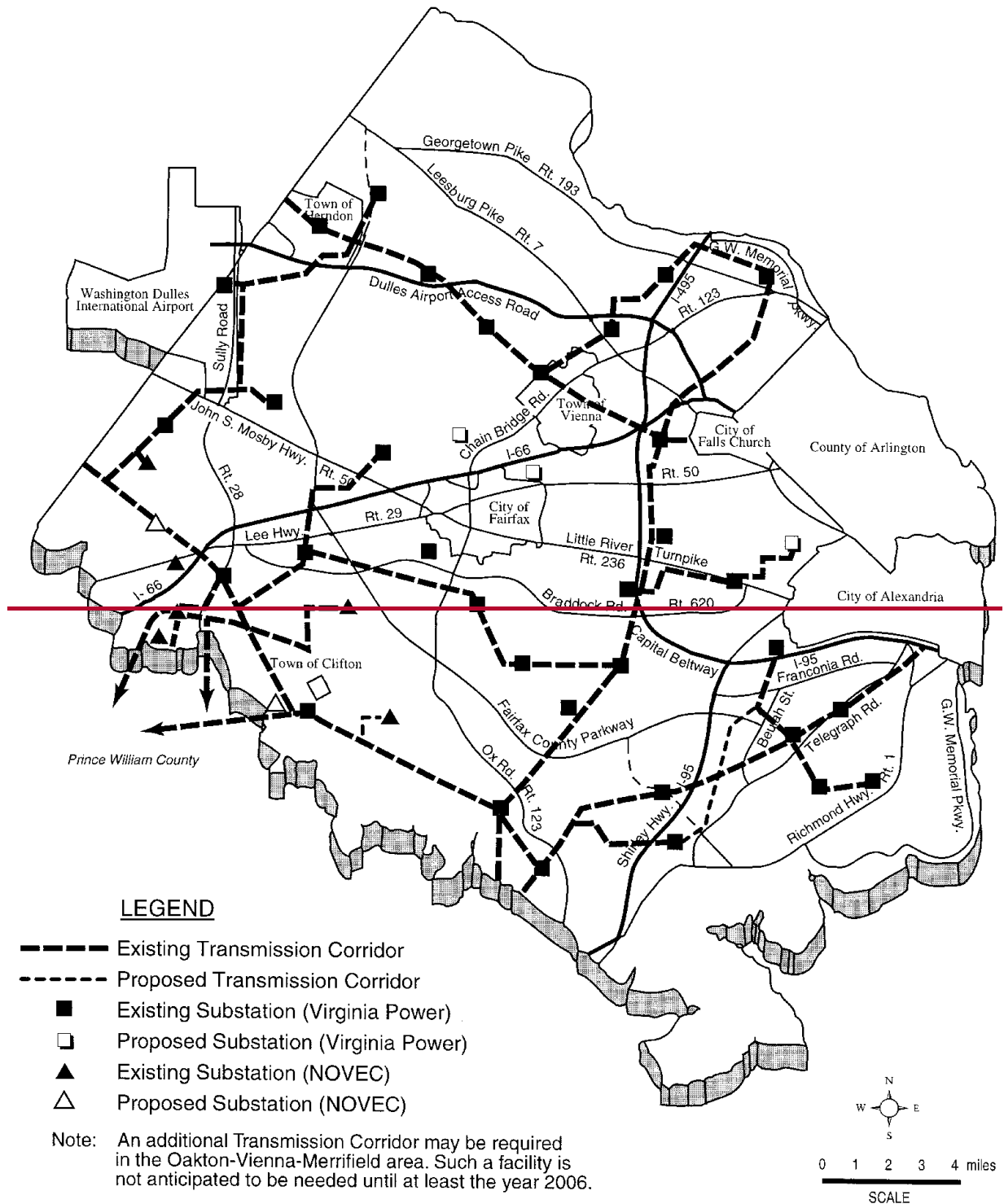
Policy d. Conceal, screen or site ground transformers and distribution boxes to reduce their visual presence and potential for clutter.

Policy e. Provide for the appropriate screening and buffering of proposed facilities.

Policy f. Design and site proposed facilities to preserve areas necessary for future right-of-way dedication and ancillary easements for construction of road improvements.



- Policy g. Provide safety measures in design and construction of towers used to support electrical and land-line utility services. Provide a fall radius of at least one third the height of guyed towers.



**ELECTRICAL SUPPLY FACILITIES**

**FIGURE 7**

DRAFT

- Policy h. Avoid interference with radio, television, and telecommunications receivers ~~of~~ the public.
- Policy i. Assure that radiation levels, individually and cumulatively, will be maintained at acceptable levels.

## WIRELESS TELECOMMUNICATION SERVICES

Wireless telecommunication services provide for the wireless transmission of voice and data and include cellular and personal communications services (PCS), paging and wireless Internet services and mobile radio communication. These services operate from wireless networks that depend on antenna devices and related equipment to transmit from a sender to one or more receivers. Such services are viewed as public utility service providers that benefit the community and its economic growth and vitality. To further the goal of achieving digital access and literacy for all residents, the County encourages build-out of a wireless network across all areas of the County.

For the purposes of this policy, a **telecommunications facility** is defined as a facility, site, or location that contains one (1) or more antenna, telecommunications towers or monopoles, a distributed antenna system (DAS), small cell, or micro-cell ~~or other miniaturization technology~~, alternative support structures, satellite dish antennas, other similar communication devices, and related equipment and site improvements used for transmitting, receiving, or relaying wireless telecommunications signals. The term is also inclusive of wireless facilities as defined in the Virginia Code.

The objectives and policies set forth in this section provide guidance on siting and design issues used in evaluating land use applications. They should not be interpreted as superseding or amending any requirements of the Zoning Ordinance or other applicable local, state, or federal laws pertaining to these issues.

## GENERAL GUIDELINES

**Objective ~~434~~5:** In order to provide a network of wireless telecommunication systems ~~licensed by the Federal Communications Commission~~, and to achieve opportunities for the co-location of related facilities and the reduction or elimination of their visual impact, locate the network's necessary support facilities which include any antennas, support structures and equipment buildings or equipment boxes in accordance with the following policies.

- Policy a. Co-locate wireless telecommunications facilities whenever feasible and appropriate to minimize visual and neighborhood impacts.

- Policy b. When existing structures are not available for co-location, or co-location is not appropriate because of adverse visual impacts or service needs, locate new structures that are required to support telecommunication antennas on properties that provide the greatest opportunity to conceal the wireless telecommunication facilities and minimize their visual impact on surrounding areas.
- Policy c. Utilize existing structures to support wireless telecommunications services whenever possible, to reduce the need for new towers and poles. However, avoid overloading existing structures with related equipment.
- Policy d. Ensure that the use of public property by mobile and land-based telecommunication facilities does not interfere with the existing or planned operational requirements of the public use and complies with adopted policies and plans to protect natural resources.
- Policy e. Ensure that the height of the proposed telecommunication facility is no greater than necessary to allow for co-location on the telecommunication facility based on its service area requirements while still mitigating the visual impact of the facility.
- Policy f. When new structures, co-locations and/or technologies (such as distributed antenna systems, micro-cell technology or miniaturization technology) are necessary to meet the service area requirements for the residential neighborhood(s), ensure that the height and mass of any appropriate co-location on the telecommunication facility is in character with the surrounding residential area and mitigates the visual impact of the facility on the surrounding residential area.
- Policy g. Design, site and/or landscape proposed telecommunication facilities to minimize impacts on the character of the property and surrounding areas. Demonstrate the appropriateness of the design through facility schematics and plans which detail the type, location, height, and material of the proposed structures and their relationship to other structures on the property and surrounding areas.
- Policy h. Demonstrate that the selected site for a new telecommunication facility provides the least visual impact on residential areas and the public way, as compared with alternate sites. Analyze the potential impacts from other vantage points in the area, especially from residential properties, to show how the selected site provides the best opportunity to minimize its visual impact on the area and on properties near the proposed site.
- Policy i. Locate proposed telecommunication facilities to ensure the protection of historically significant landscapes and cultural resources. The views of and vistas from architecturally and/or historically significant structures should not be impaired or diminished by the placement of telecommunication facilities.
- Policy j. Site proposed telecommunication facilities to avoid areas of environmental sensitivity, such as steep slopes, floodplains, wetlands, environmental quality corridors, and resource protection areas.

- Policy k. Site proposed telecommunication facilities to allow for future expansion and with corresponding levels of screening to accommodate expansion.
- Policy l. Design and site proposed telecommunication facilities to preserve areas necessary for future right-of-way dedication and ancillary easements for construction of road improvements.

**Objective ~~444~~6:** Design proposed wireless telecommunication facilities to mitigate visual impact and prominence, particularly when located in residential areas, by concealing their intended purpose in a way that is consistent with the character of the surrounding area.

- Policy a. Disguise or camouflage the appearance of proposed wireless telecommunication facilities to resemble other man-made structures and natural features (such as flagpoles, bell towers, and trees) that are typically found in a similar context and belong to the setting where placed (~~See Figures 8 and 9).~~
- Policy b. Design proposed wireless telecommunication facilities that are disguised and camouflaged to be of a bulk, mass and height typical of and similar to the feature selected.
- Policy c. Use other new and existing structures and vegetation of comparable form and style to establish a grouping that complements a camouflaged telecommunication facility and supports its design, location and appearance.
- Policy d. Mitigate the visual impact of proposed wireless telecommunication facilities and their equipment by using effective design options appropriate to the site such as:
- Design, site, and/or landscape the proposed facility to minimize impacts on the character of the area;
  - 
  - Locate proposed wireless telecommunication facilities near or within areas of mature vegetation and trees that effectively screen or provide an appropriate setting for the proposed structure provided such location does not adversely impact sensitive environmental resources, including root systems, or cause fragmentation of forested communities. When viewed in context, consider perspective views, relative topography, and other factors, to mitigate the visual presence and prominence of the structure;
  - 
  - Blend proposed wireless telecommunication facilities with an existing pattern of tall structures;
  -

- Obscure or block the views of proposed wireless telecommunication facilities with other existing structures, vegetation, tree cover, or topographic features to the maximum extent feasible.

### FEATURE SHOWN GUIDELINES

**Objective ~~45~~47:** With Planning Commission approval, wireless telecommunication facilities proposed on existing or replacement structures, or new poles of 50 feet or less in height and designed to support small cell facilities, that do not meet the Administrative Review or Deemed Approved Guidelines but are otherwise consistent with Plan guidance may be processed without a public hearing as a “feature shown” of the Comprehensive Plan when in conformance with the following policies:

Policy a. In determining that proposed telecommunication facilities are a feature shown of the Comprehensive Plan, ensure that the following general factors are met:

- The proposed installation has no material adverse impact on the visual quality or character of the general area in which it is to be placed, including any surrounding residential properties;
- 
- The proposed installation is located and designed to blend with the structure on which it is placed, such as flush-mounting antennas or screening the antennas and equipment as appropriate to the site;
- 
- The proposed installation, when in a grouping of other similar structures, is consistent with the pattern of those surrounding structures;
- 
- Related equipment cabinets or shelters located on the ground or on a rooftop ~~are~~ should be appropriately screened or placed to obscure their visibility from surrounding properties;
- 
- Building rooftop antennas ~~are~~ should be either flush mounted to surface walls, screened or placed to not be visible from the surrounding area unless the antenna has a minimal visual impact if installed above the roofline;
- 
- Access to the proposed installation for purposes of maintenance has no material adverse impact on adjoining properties; ~~and.~~



## ADMINISTRATIVE REVIEW GUIDELINES

**Objective 4648:** Consider the co-location, replacement, or modification of antennas, and their associated equipment to be an Administrative Review “feature shown” of the Comprehensive Plan requiring no Planning Commission review when the co-location, replacement or modification of, antennas, and the related equipment is in full conformance with all Fairfax County Zoning Ordinance provisions and the following applicable policies:

Policy a. Locate wireless telecommunication facilities on existing structures in accordance with the following standards:

- The antenna is placed directly in front of the structure’s surface, including the surfaces of the penthouse and other structures on building’s roof;
- No part of the antenna shall extend above the surface of the building or tank on which it is placed and no part of the antenna’s mounting shall extend more than 6 inches above the surface of the building on which it is placed;
- The antenna and its mounting are of a color or finish that closely matches and blends with the surface on which they are placed.
- The generator or equipment cabinet or shelter is either:
  - Located inside the building, building penthouse or inside the building parking structure on a level other than the roof;
  - Located on the ground and enclosed within a structure that is attached to the building and constructed of the material that is the same as, or visually the same as, the color and pattern of the building;
  - Located on the ground behind a solid fence, wall, berm, or planted hedge, or combination thereof, as required by the Zoning Ordinance; or,
  - Located on the roof of the building immediately adjacent to its penthouse or other structure on the roof, screened by a material of the same, or visually the same, color or pattern and no taller than the adjacent rooftop structure.

Policy b. Consider a new monopoles or towers greater than 50 feet in height to be a feature shown of the Comprehensive Plan if located in major utility transmission easements or rights-of-way (See Figure 13); and if the easement or right-of-way is at least 100 feet wide and not used for underground gas transmission lines, and if the following guidelines are met:

- The monopole or tower is placed at least 35 feet inside the transmission easement;
- 
- The monopole or tower is placed at least 200 feet from any existing residence;
- 
- The monopole or tower is placed at least 200 feet from the right-of-way of any existing public ~~roadway or street~~road.
- 

**Objective ~~474~~9:** Consider the placement of new structures 50 feet or less in height and designed to support small cell facilities to be an Administrative Review feature shown of the Comprehensive Plan requiring no Planning Commission review when the location and character of the new structure is in full conformance with all Fairfax County Zoning Ordinance provisions and the following applicable policies:

- Policy a. Locate to avoid interference with public safety communications or operations.
- Policy b. Locate to avoid areas of environmental sensitivity, such as steep slopes 15% or greater, floodplains, wetlands, environmental quality corridors (EQC), and resource protection areas.
- Policy c. Locate to avoid disturbing the critical root zone of existing trees as defined in the Fairfax County Public Facilities Manual.
- Policy d. Locate so as to not impede pedestrian, bicycle, or vehicular travel by not ~~or~~ obstructing walkways, driveways, ~~or~~ entrances or other means of travel.
- Policy e. Locate so as to not impede or obstruct pedestrian, bicycle, or vehicular travel.
- Policy f. The pole design should conform to the aesthetics of existing adjacent streetlights or utility poles and/or conform to existing area or district specific urban design guidelines or manuals (ex. Tysons Urban Design Guidelines).
- Policy g. Locate the pole in conformance with existing area or district specific urban design guidelines or manuals and/or Standard Pole Locations as defined in the Fairfax County Public Facilities Manual and restore any disturbed streetscape after installation.
- Policy h. In areas where there are no existing adjacent streetlights, utility poles, or district specific urban design guidelines or manuals, new poles should be designed to look the same as or substantially similar to existing poles elsewhere in the same zoning district.
- Policy i. Locate new structures 50 feet or less in height within the bounds of a historic overlay district only if infeasible to co-locate associated wireless

telecommunication facilities on existing structures or to locate new structures outside of the historic overlay district or in the public right-of-way.

Policy j. When placing in a historic overlay district:

- Site the structure so as to not be located along the frontage of a historic building, deemed historic on a federal, state, or local level; and

- 

- Site the structure so as not to be on an existing structure located on, adjacent to, or visible from a major thoroughfare, historic byway, road listed or determined to be eligible for listing in the National Register, or a contributing or historic property in a County Historic District.

Policy k. Locate proposed wireless telecommunication facilities so that views of and vistas from architecturally and/or historically significant structures, landscapes, or cultural resources are not impaired or diminished.

### DEEMED APPROVED GUIDELINES

**Objective ~~48~~50:** New wireless telecommunication facilities will be deemed a “feature shown” of the Comprehensive Plan requiring no Administrative Review or Planning Commission review when the location and character of the new structure is in full conformance with all Fairfax County Zoning Ordinance provisions and the following applicable policies:

Policy a. Co-locate wireless telecommunication facilities, including small cell wireless facilities, on existing structures. (~~See Figure 14~~)

Policy b: In determining that a proposed wireless telecommunication facility is a “feature shown” of the Comprehensive Plan, ensure that the following general factors are met:

- The proposed installation is located and designed to blend with the structure on which it is placed such as flush-mounting antennas, screening the antennas and equipment as appropriate to the site, or using other measures to mitigate visual impact;

- 

- Related generators or equipment cabinets or shelters located on the ground or on a rooftop should be screened or placed to obscure their visibility from surrounding properties to the extent possible;

- 

- Building rooftop antennas should be either flush mounted to surface walls, camouflaged, screened or placed to not be visible from the surrounding area unless the antenna has a minimal visual impact if installed above the roofline;

- Access to the proposed installation for purposes of maintenance has minimal visual impact on adjoining properties.

Policy c. When co-locating or replacing existing antennas on rooftops:

- Flush-mount antennas and use antennas of a color or finish that closely match and blend with existing structures when possible; ~~(See Figures 11 and 12)~~
- Screen or otherwise camouflage pole-mounted antennas ~~(See Figure 10)~~.

~~Disguise and camouflage wireless telecommunication facilities to resemble other objects found within the area located.~~



FIGURE 8

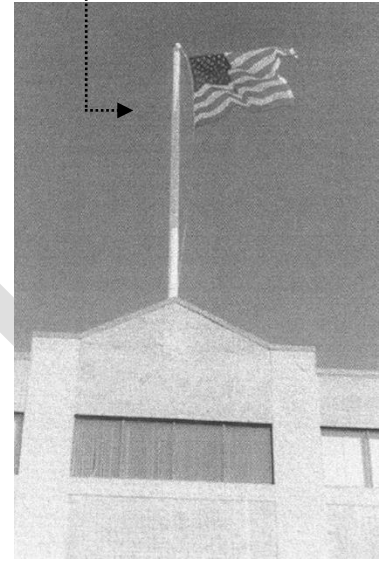


FIGURE 9

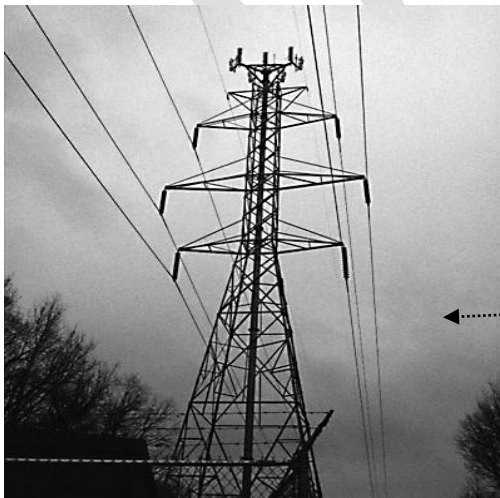
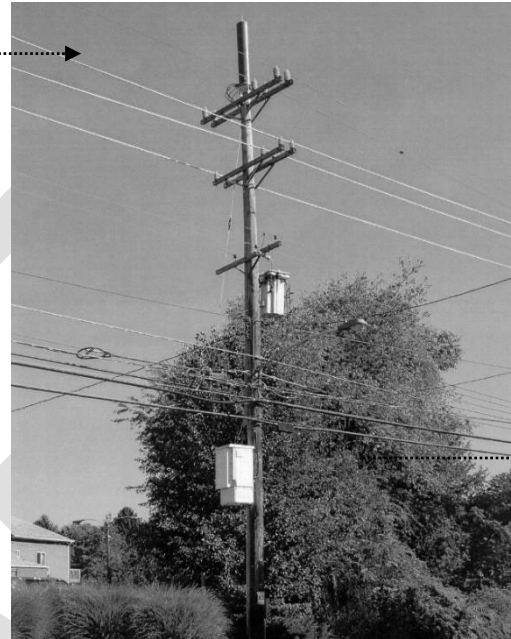


FIGURE 10

~~A “Fort Worth” structure integrates the telecommunication pole and antennas within an existing electrical transmission tower and helps to conceal the~~

A 7-foot “radome cap” on the top of an electrical distribution pole conceals the telecommunication antennas.

The equipment box located on the distribution pole or on the ground should be placed and colored to match the pole or screened to blend with its surroundings.



**FIGURE 11**