

**Title** Approved and Adopted Gaithersburg Vicinity Master Plan

**Author** The Maryland-National Capital Park and Planning Commission

**Subject** Land Use, Zoning, Transportation, Community Facilities, and Implementation Plans for the Gaithersburg Vicinity and portions of the Travilah and the Rock Creek Watershed Planning Areas

**Date** January 1985

**Planning Agency** The Maryland-National Capital Park and Planning Commission  
8787 Georgia Avenue,  
Silver Spring, Maryland 20910-3760  
and  
14741 Governor Oden Bowie Drive  
Upper Marlboro, Maryland 20870

**Series Number** 1914852506

**Number of Pages** 150

**ABSTRACT**

This document contains maps and supporting text to the Approved and Adopted Gaithersburg Vicinity Master Plan. The Plan recommends that the Shady Grove West Study Area be considered a major employment center and housing resource due to its strategic location in the I-270 Corridor. The Plan recommends the continued operation of the Montgomery County Airpark at its present location and with its general character. The Plan designates suitable receiving areas for transferable development rights (TDR's). A staging plan is included for Shady Grove West and the larger MD 28 Corridor which links residential development to road construction.

Approved & Adopted

# Gaithersburg Vicinity Master Plan

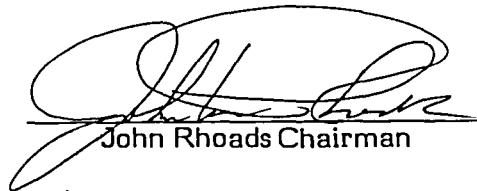
An Amendment to the  
1971 Gaithersburg Vicinity Master Plan;  
a portion of the 1980 Potomac Subregion  
Master Plan as amended in 1982; a portion of the  
1968 Rock Creek Master Plan, as amended;  
a portion of the 1977 Sector Plan for the Shady Grove  
Transit Station Area; the Master Plan of Bikeways,  
1978; the Master Plan for Historic Preservation,  
1979; the Master Plan for Historic Preservation,  
Physical Development of the Maryland-Washington  
Regional District; and the Master Plan of Highways  
within Montgomery County, Maryland



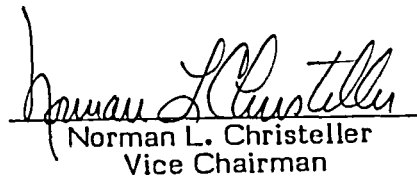
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# Certificate of Approval and Adoption

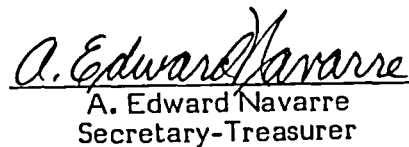
The Gaithersburg Vicinity Master Plan, being an amendment to the 1971 Gaithersburg Vicinity Master Plan; a portion of the 1980 Potomac Subregion Master Plan as amended in 1982; a portion of the 1968 Rock Creek Master Plan, as amended; a portion of the 1977 Sector Plan for the Shady Grove Transit Station Area; the Master Plan of Bikeways, 1978; the Master Plan for Historic Preservation, 1979, as amended; the General Plan for the Physical Development of the Maryland-Washington Regional District; and the Master Plan of Highways within Montgomery County, Maryland, has been approved by the Montgomery County Council, sitting as the District Council, by Resolution No. 10-1083 and has been adopted by The Maryland-National Capital Park and Planning Commission by Resolution 85-2 on January 9, 1985 after a duly advertised public hearing pursuant to Article 28 of the Annotated Code of Maryland, 1983 (1984 Supplement).



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THE MARYLAND-NATIONAL CAPITAL  
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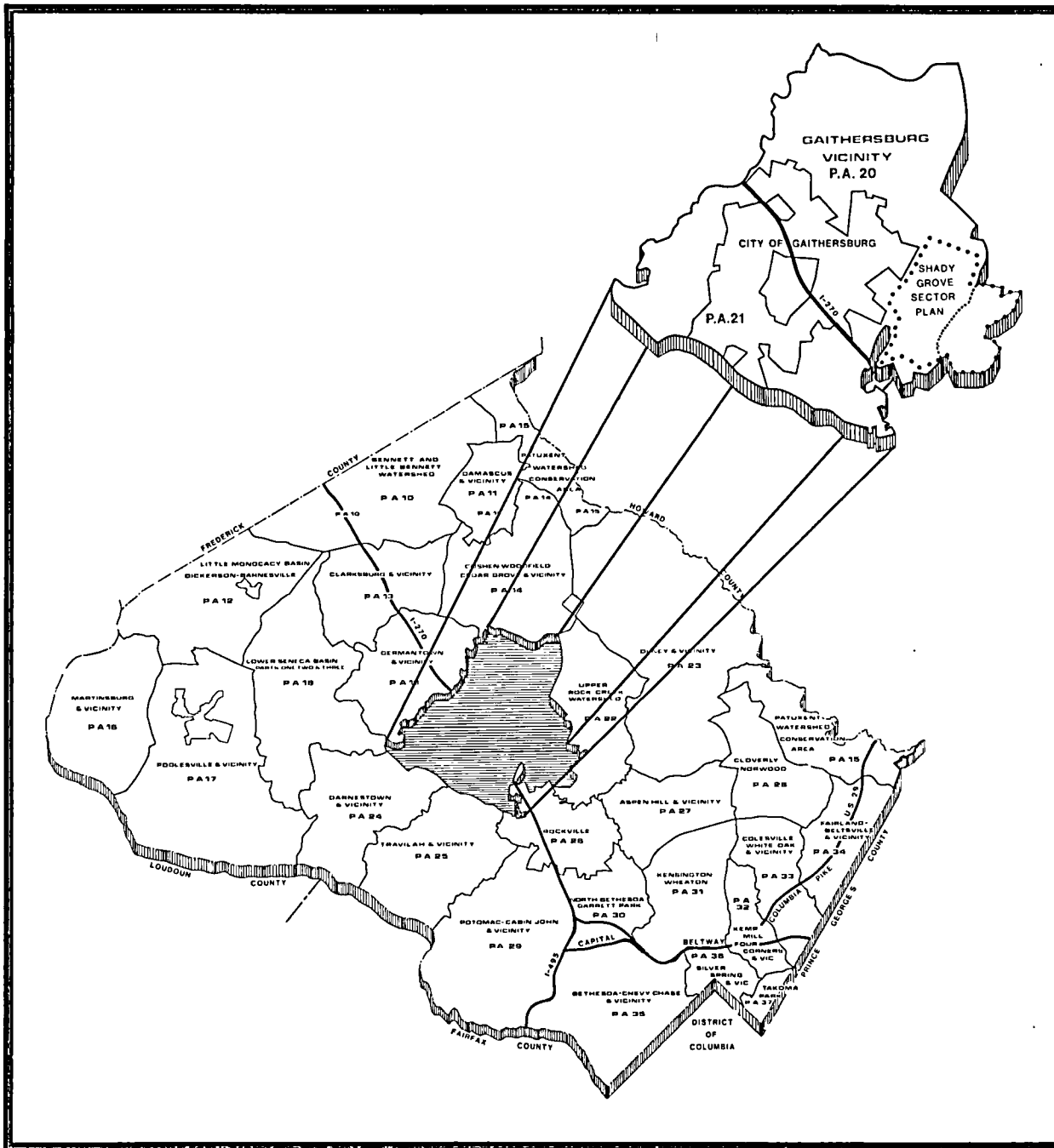
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# Plan Highlights

This Plan manages and directs the dynamic growth potential of the Gaithersburg Vicinity Planning Area. (See figure 1.) The Planning Area's remaining supply of vacant and uncommitted land provides an important resource in meeting several County-wide objectives. These objectives include:

- Providing employment opportunities for a variety of businesses and enterprises;
- Providing a sense of community identity for both existing and future residents;
- Increasing the County's total housing stock and concurrently providing an appropriate mix of affordable housing;
- Providing a safe, efficient, and adequate transportation system;
- Providing receiving areas for Transferable Development Rights (TDR's) to implement the County's Agricultural Preservation Program; and
- Providing such facilities as parks and schools on a timely and adequate basis.

Most of the land in the Gaithersburg area has already been either developed or committed to development under the existing master plan guidelines of the city of Gaithersburg and of the County. Three significant areas still remain vacant and uncommitted, providing substantial opportunities to meet County-wide development goals. These are designated as the Shady Grove West Study Area, which is generally bounded by I-270, Shady Grove Road, MD 28, and Muddy Branch Road; the Airpark Study Area, which is generally bounded by Goshen Road, Warfield Road, MD 124, and the Midcounty Highway alignment; and the Smokey Glen Study Area, north of MD 28 near Seneca Creek State Park.



## GAITHERSBURG VICINITY PLANNING AREA (PA 20)

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Montgomery County Maryland

January, 1985



Fig. 1

Recommendations for approximately 220 acres located within the Potomac Subregion Master Plan Area are also included in this Plan.

#### SHADY GROVE WEST STUDY AREA

The Plan recommends that the Shady Grove West Study Area continue to be designated as a major employment and housing center due to its strategic location in the I-270 Corridor.

Specifically, the Plan recommends that:

- An 1150-acre Research and Development (R&D) Village be designated to offer a high quality environment not only for research and development firms, but also for offices, corporate headquarters, light manufacturing, and business support services. Residential development is also part of the R&D Village.
- The Shady Grove Life Sciences Center, part of the R&D Village, be designated on the proposed Land Use Plan as suitable for the Mixed-Use Planned Development (MXPD) Zone with emphasis on medically related and biotechnology uses.
- The Washingtonian property, adjacent to I-270 and also part of the R&D Village, be designated on the proposed Land Use Plan as suitable for the MXPD Zone and be developed as a "planned employment center" with offices, a small amount of retail development, and residential uses.
- Additional areas for office employment be provided near selected major highways.
- Significant areas of moderate-density residential development be provided both east and west of Shady Grove Road.
- Appropriate residential parcels be designated as receiving areas for TDR's, thereby implementing the recommendations of the County's Functional Plan for Preservation of Agriculture and Rural Open Space.

The development proposed in the Shady Grove West Area is keyed to the construction of certain roadways. A staging element is included to help assure that new development proceeds in concert with the construction of new roads.

#### AIRPARK STUDY AREA

This Plan assumes the continued operation of the Montgomery County Airpark at its present location and with its current general character. It recommends that the prospective development of surrounding residential and industrial land uses should not detract from its continued operation. A Task Force established by the County Council is assessing the importance of the Airpark and evaluating the desirability of its current location. The land use pattern proposed by this Plan should be re-examined in light of the findings of the Task Force.

Specifically, the Plan recommends that:

- The Revenue Authority and State Aviation Administration (SAA) prepare, with the assistance of local government officials and citizens, a detailed Noise Abatement Plan.

- Goshen Road be improved between Snouffer School Road and Oden'hal Road.
- Airpark Road Extended, a new road, be provided in the Upper Rock Creek area parallel to Muncaster Mill Road between MD 124 and proposed Shady Grove Road Extended.
- A convenience retail shopping center, at least ten acres in size, be provided along existing MD 124 to serve existing and future residential development.
- Low-intensity light industrial development be shown for the property north of Snouffer School Road and east of the Green Farm Conservation Park because of its proximity to the end of the airport runway.
- Several residential parcels be recommended as receiving areas for TDR's, thereby implementing the recommendations of the County's Functional Plan for Preservation of Agriculture and Rural Open Space.

#### SMOKEY GLEN STUDY AREA

This is an environmentally sensitive area north of MD 28 near Seneca Creek State Park. The Plan recommends that:

- The area located northeast of Riffle Ford Road and adjacent to Seneca Creek State Park be shown for an average density of one unit per two acres. Clustering of residential units will be required to protect the environmentally sensitive areas.
- The land use for the area located west of Longdraft Road near Marmary Road be changed from half-acre residential (R-200) to two-acre (RE-2) minimum lot size to better protect this environmentally fragile area.
- The remaining areas (not considered environmentally sensitive) be confirmed as half-acre residential zoning.

#### OTHER RECOMMENDATIONS

- A portion of bike route P-32 be eliminated from the Master Plan of Bikeways.
- Bikeway routes be provided in a comprehensive bikeway system within the Planning Area.
- A transit easement be extended from Shady Grove to Gaithersburg, Germantown, and, ultimately, Clarksburg to provide a right-of-way for a future extension of bus or transit service.
- If appropriate, the areas outside the study areas which have not been rezoned into conformance with the recommendations of the 1971 Gaithersburg Vicinity Master Plan be rezoned into conformance through a Sectional Map Amendment.

This Plan reflects the land use and zoning proposals set forth in the Approved and Adopted Oakmont Special Study Plan (1982).

# Land Use and Zoning Recommendations

## INTRODUCTION

This Chapter describes the Plan's land use and zoning recommendations. These recommendations support the "corridor city" designation of the Gaithersburg area expressed in the General Plan.

Much of the land in the Gaithersburg Vicinity Area either has been developed or has received development approvals. Only three areas have a significant amount of relatively contiguous vacant land or land subject to redevelopment. These are the areas where there are meaningful opportunities to influence physical growth and future development through the master plan process. Land use and zoning recommendations are presented by each study area; their boundaries are described below.

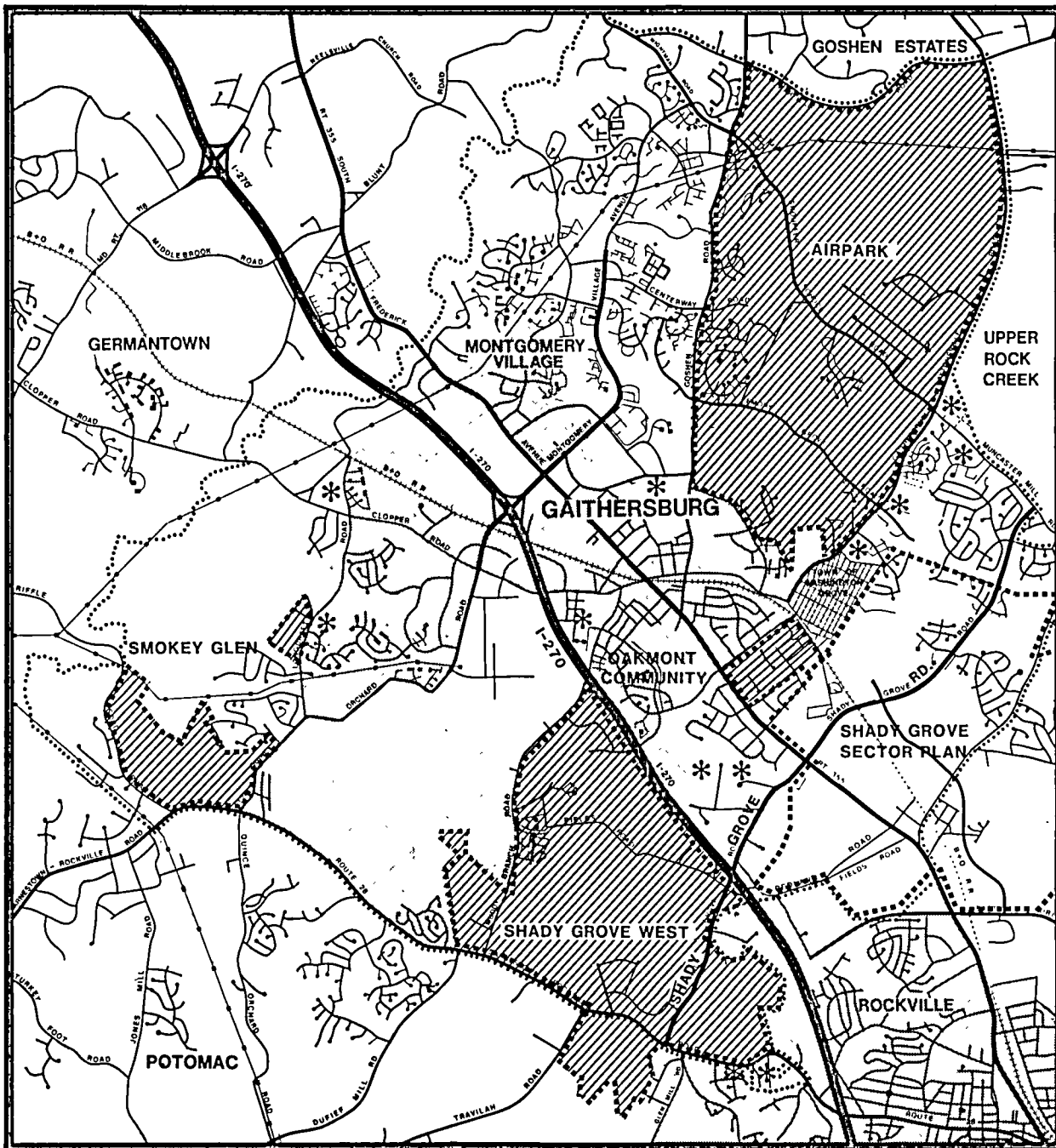
This Plan continues the recommendations of the 1971 Gaithersburg Master Plan for most of the land outside these study areas. Recommendations not confirmed for individual properties outside these study areas are also included in this chapter.

### Boundaries of Study Areas

Study area boundaries are shown in figure 2.

The Shady Grove West Study Area is generally located between the cities of Gaithersburg and Rockville, and between I-270 and MD 28. Included in this study area are several properties south of MD 28 identified in the Master Plan for the Potomac Subregion for further study within the context of the Gaithersburg Vicinity Plan.

The Airpark Study Area centers around the Montgomery County Airpark. It extends south to the boundaries of the city of Gaithersburg and the town of Washington Grove and north to Warfield Road. The eastern and western boundaries



## MAJOR STUDY AREAS

- ..... Planning Area Boundary
- Municipalities
- ▨ Study Areas
- \* Non-Contiguous Parcels (see text)

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Montgomery County Maryland

January, 1985



**Fig. 2**



are MD 124 and Goshen Road, respectively. A small portion of the Rock Creek Planning Area east of MD 124 has been studied because it is affected by noise from the Montgomery County Airpark.

The Smokey Glen Study Area is an environmentally sensitive area north of MD 28 near Seneca Creek State Park.

Other properties which are located outside these three study areas and also discussed in this Plan include the Oakmont Area, the Washingtonian Industrial Area, and several individual, scattered parcels within the Gaithersburg Vicinity Planning Area.

The Oakmont Area lies between MD 355 and the B&O Railroad and southwest of the town of Washington Grove. Because it was not dependent on transportation studies which delayed action on the remainder of the Plan, the Oakmont Area was studied separately. A Special Study Plan, adopted in 1982, is available as a separate document. The Land Use Plan map is included in this Plan as well.

#### Relationship of this Plan to Municipal Planning Efforts

The Gaithersburg area consists of Planning Areas 20 and 21. (See figure 1.) The Gaithersburg Vicinity Master Plan covers Planning Area 20, which represents the land under the jurisdiction of the County. Planning Area 21 embraces the city of Gaithersburg and also the town of Washington Grove. The city of Rockville is designated Planning Area 28.

As the cities of Gaithersburg and Rockville and the town of Washington Grove have their own powers of planning and zoning, this Plan makes no land use recommendations for these areas. This planning effort, however, has taken note of the planning policies and development in these jurisdictions and has involved the planning staffs and officials of these jurisdictions.

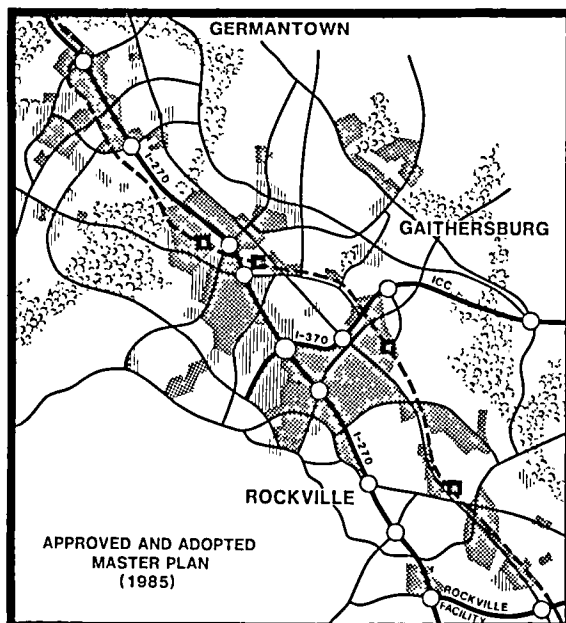
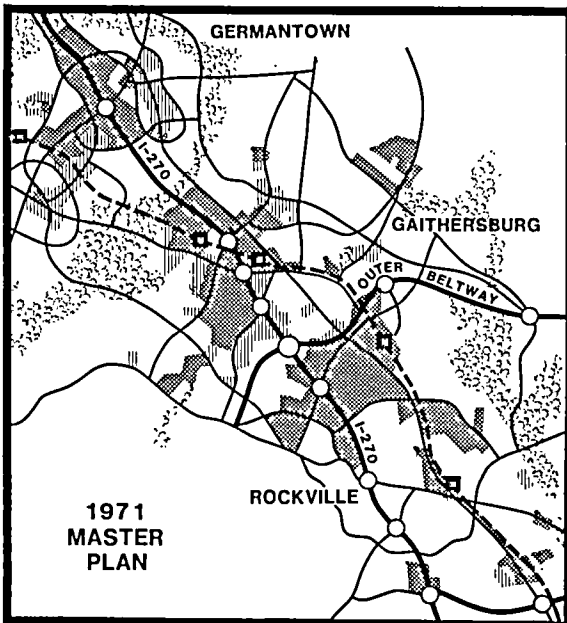
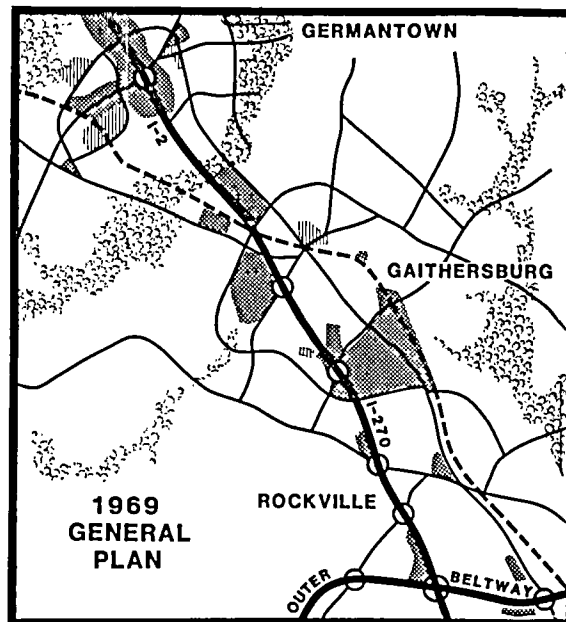
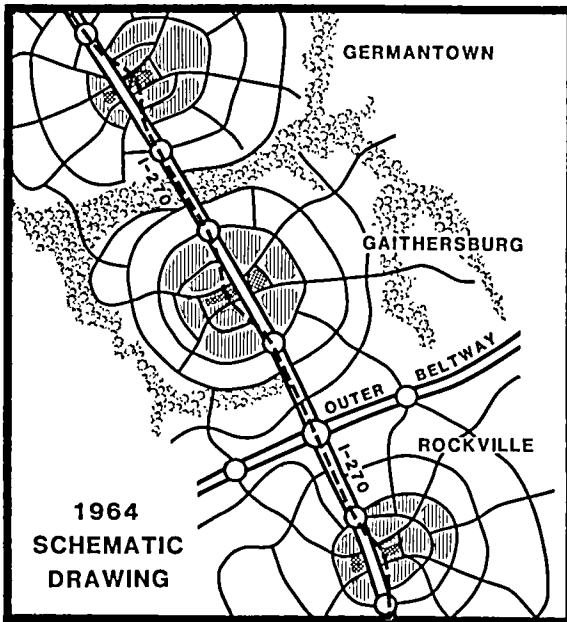
#### Relationship of this Plan to the County General Plan

This Plan has been guided by the County's General Plan of 1969. The General Plan encourages a pattern of "wedges and corridors" --concentrated development along the urban transportation corridors with low-intensity and agricultural uses within the wedges. It designates the Gaithersburg area as one of several "corridor cities" along I-270. Diagrammatically, a "corridor city", as originally envisioned, was to have a single center of employment and shopping activities surrounded by residential development. (See figure 3.) The residential area decreased from high-density, adjacent to the core, to low-density, at the edge of the "corridor city."

Several events have occurred since the late 1960's to alter this idealized diagram for a "corridor city." The extensive mass transit system envisioned in the General Plan has not materialized. Many employment centers have located away from the core of the "corridor city." The roadway network proposed in the General Plan has been modified over time.

Despite these events, the principal purposes and objectives of the "wedges and corridors" concept are still valid. The Gaithersburg Vicinity incorporates these purposes and objectives in the following manner:

- Residential densities are highest near the center of the area, closest to I-270, and lower along the edges of the Planning Area;



## CORRIDOR CITIES DIAGRAMS



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Montgomery County Maryland

January, 1985



Fig. 3

- Higher density development is channeled to areas of high accessibility by private automobile and public transit; and
- New residential communities proposed in the Plan are planned with a variety of housing types with local shopping and educational and recreational facilities.

This Plan includes land (the Percon property) which lies south of MD 28 in the "wedge" area. The General Plan proposes low-density residential uses here, but this Plan proposes a Research and Development (R&D) park as an alternative. A future Gaithersburg Vicinity Master Plan Amendment will examine in more detail the relationship of an R&D park to the goals and objectives of the General Plan for this portion of the "wedge" area.

#### Land Use and Density Recommendations

This Plan follows the established practice of master plans for Montgomery County by providing zoning recommendations for base densities for each parcel or tract of land and indicating in the land use recommendations optional zones or densities. The zoning recommendations for base densities are for euclidean zones, in which the property owner may develop, as a matter of right, up to the maximum density prescribed by the zone if the development conforms to the development standards of the zone. These euclidean zones do not require site plan review by the Planning Board and it is intended that they be applied by Sectional Map Amendment following the approval of the master plan.

The optional zones and densities shown on the Land Use Plan are those which may be obtained either by approval of a floating zone for the property or by the use of transferable development rights (TDR's). Those floating zones which do not require approval of a development plan at the time of the approval of the zoning application may be, at the request of the property owner, applied by the Sectional Map Amendment. The planned development zones and certain other floating zones require the submission of development plans to demonstrate how the applicant intends to enhance the development with increased public and private amenities and a more efficient, creative approach to design and form. In these zones, the County Council addresses issues of compatibility, attractiveness, environmental protection, and the provision of public amenities in reviewing the development plan; the Planning Board addresses these issues in somewhat greater detail in reviewing the site plan.

Another form of optional density shown on the Land Use Plan is the use of TDR's. The Functional Master Plan for the Preservation of Agriculture and Rural Open Space restates and reinforces the policy of the County to encourage the preservation of agricultural uses, woodland, and open space. For property classified in the Rural Density Transfer Zone (RDT), the owner may sell transferable development rights equivalent to one development right for each five acres of RDT property. Land designated as appropriate for TDR receiving areas in the Gaithersburg Vicinity Plan and other master plans may be developed at the higher density shown by the use of TDR's equivalent to the difference between the base density and the increased density. When the TDR's from a particular parcel of RDT land are utilized, a perpetual easement is recorded on the RDT land to assure that it will be retained in the agricultural and open space uses.

The densities indicated in the text and on the land use and zoning recommendations are the maximum permissible without the bonus for inclusion of

moderately-priced dwelling units (MPDU's). The recommended base density is that zone which represents the best use of the land if no increased optional density is desired or sought by the owner. The recommended optional densities represent the upper limit that appears to be appropriate for the parcel, taking into account the environmental considerations, overall transportation capacity, and relationship to adjacent properties. It is important to emphasize that the optional density is an upper limit and in many cases may not be achieved in its entirety because environmental or compatibility considerations preclude it.

In residential zones, a minimum 12.5 percent of all units in subdivisions with 50 or more units must be MPDU's. In such cases, a density increase of up to 20 percent is permitted and optional development standards and unit types may be utilized.

A summary of base and optional zones proposed in this Plan is shown in table 1.

### SHADY GROVE WEST STUDY AREA

This is one of the few areas in the I-270 Corridor with a large amount of vacant land suitable for employment and residential development which is close to I-270, a proposed Metro station, and the center of the County. The strategic location along the I-270 Corridor, the nature and character of existing development, vacant land, ownership patterns, and the opening of the Shady Grove Metro station, make the Shady Grove West Study Area an extremely important area for updated master plan guidance.

The ultimate development of the Shady Grove West Study Area will involve a long period--perhaps 20 years--of build out. However, the current market dynamics are creating significant pressure for early initiation of that development. The I-270 Corridor has experienced a surge of development over the past ten years. During the 1970-80 period, 70 percent of the total increase in the County's population was in the Gaithersburg area. Two factors accounted for this large percentage: (1) the population gain within the Gaithersburg area was almost 40,000 residents; and (2) population losses in the County's inner-suburban ring, represented by such areas as Bethesda, Silver Spring, and Wheaton.

During 1970-80, the Gaithersburg area housing inventory grew from 7,100 units to 22,800, a gain of over 15,700 units, representing an annual average increase of nearly 1,600 units. This gain represents nearly 35 percent of the total 1970-80 inventory gain for the entire County.

Forecasts for the next decade project a continuation of this trend. The I-270 Corridor has been planned to absorb a substantial amount of growth. The issues addressed by this Plan include the form this growth should take and the relationship of new development to available public services.

### Land Use Plan Objectives

The following points describe the objectives of the Shady Grove West Land Use Plan:

- To continue the 1971 Gaithersburg Vicinity Master Plan designation of the Shady Grove West Study Area as a major housing and employment resource area in the County;

TABLE 1  
SUMMARY OF ZONING CLASSIFICATIONS  
DISCUSSED IN THE LAND USE AND ZONING CHAPTER<sup>1</sup>

Zone	Minimum Lot Size/ Major Use	Average Dwelling Unit Per Acre	Maximum Density <sup>2</sup> (Units Per Acre) Building Height
<u>BASE OR EUCLIDEAN ZONES</u>			
RE-2	2 acre	.40	0.5
RE-2C	25,000 Square Feet	.40	0.5
RE-1	1 acre	1.00	1.0
R-200	20,000 Square Feet	1.85	2.0
R-90	9,000 Square Feet	3.45	3.6
R-60	6,000 Square Feet	4.40	5.0
R-30	Apartments	12.25	14.5
R-20	Apartments	16.76	21.7
R-10	High-rise Apartment	33.16	43.5
C-1	Local Convenience Retail		30 feet
C-2	General Commercial		42 feet
C-4	Limited-Intensity, Highway Commercial		
I-1	Light Industrial		42 feet
I-4	Low-Intensity, Light Industrial		42 feet
<u>OPTIONAL OR FLOATING ZONES</u>			
R-T	Townhouses (6 to 12.5 units/acre)		
R-H	Apartments (up to 43 units/acre)		
R-MH	Residential, Mobile Home Park (7 units/acre)		
O-M	Office Buildings (5-7 stories)		
C-3	Highway Commercial (3 stories)		
I-3	Industrial Park (100 feet height limit)		
P-N	Planned Neighborhood		
T-S	Town Sector		
P-D	Planned Development		
MXPDP	Mixed-Use Planned Development		

<sup>1</sup> The Montgomery County Zoning Ordinance gives the specific provisions for each zone. In certain instances, dwelling unit types and building heights may be changed.

<sup>2</sup> Densities indicated are the maximum permissible without the bonus for inclusion of Moderately Priced Dwelling Units (MPDU's). These densities do include the cluster option where applicable. Maximum density can only be obtained on land with dedicated rights-of-way and the capability to accommodate required lot sizes. Any subdivision of 50 or more units must include 12.5 percent MPDU's, in which case a density increase of up to 20 percent and optional development standards and unit types are permitted.

- To establish an "R&D Village";
- To maintain the character of existing neighborhoods surrounding the Shady Grove West Study Area by providing compatible uses in the Shady Grove West Study Area;
- To provide the opportunity for people, as much as possible, to live and work in the same community, thereby creating more efficient use of transportation systems, public facilities and amenities, and reducing the amount of work trip miles;
- To create a distinctive identity and image for an area which currently lacks any cohesive land use pattern;
- To assure that new structures on large tracts of land relate to and are compatible with an overall concept plan for Shady Grove West;
- To encourage integrated, multi-use activity centers rather than unrelated, single-use development sites;
- To locate these activity centers so they can be easily linked to Metro via bus lines or benefit from public and private paratransit programs;
- To create a pedestrian environment and provide amenities which are accessible to both employees and residents;
- To assist in attracting medically related activities and biotechnical organizations to the Life Sciences Center; and
- To provide a clear differentiation between the regional road network and the local road system.

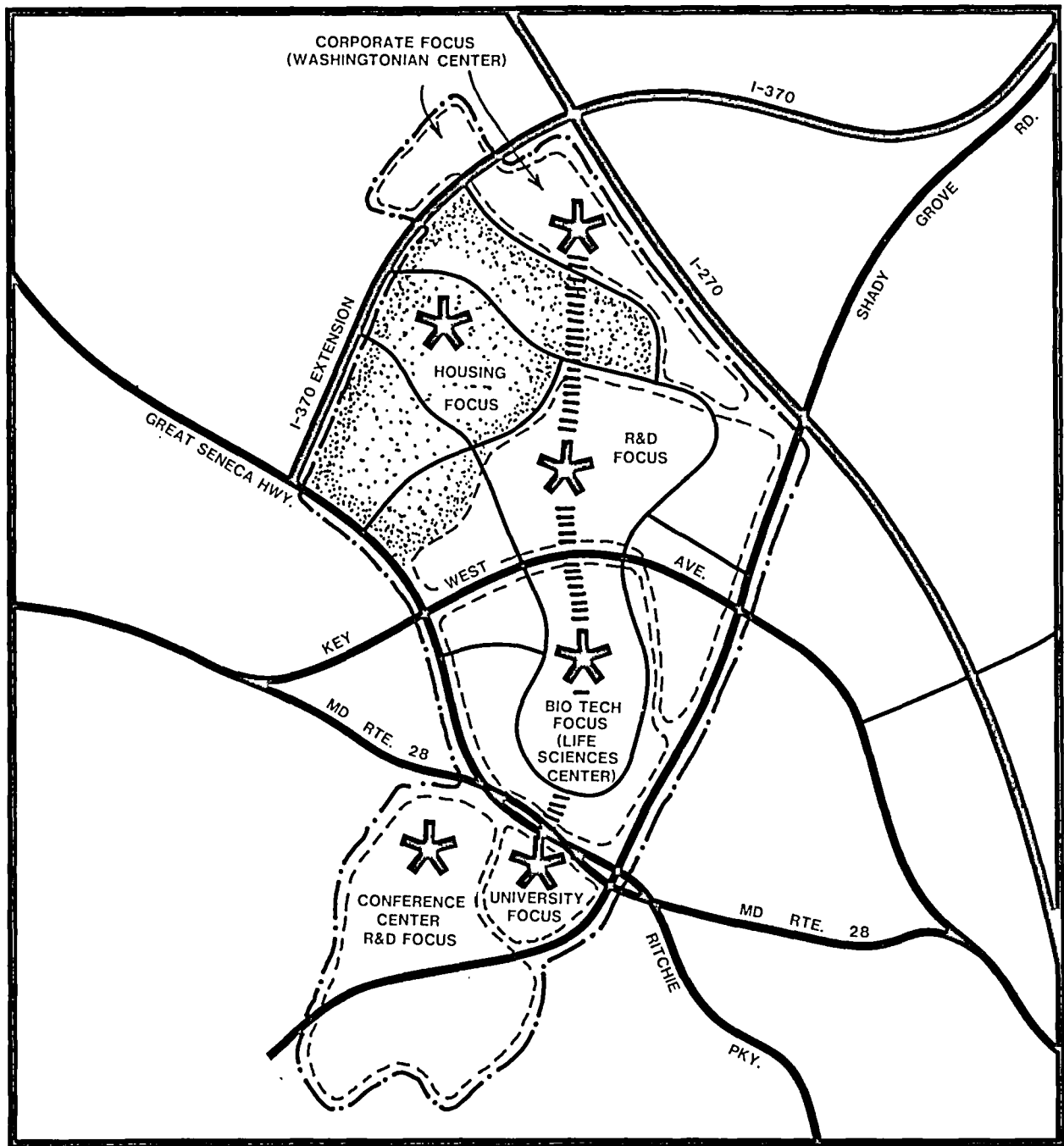
### Overview of Land Use Plan

This Plan recommends that the majority of Shady Grove West be designated a "Research and Development (R&D) Village." (See figure 4.) The R&D Village will enhance County-wide planning efforts to attract new R&D firms to Montgomery County and to retain existing firms. The R&D Village will foster a mix of housing types and a variety of employment uses, thereby enhancing the quality of life for employees and residents.

In terms of employment, the R&D Village would offer a high quality environment not only for research and development firms, but also for offices, corporate headquarters, light-manufacturing, and business support services.

The County-owned Life Sciences Center has already established a strong biotechnical presence in the southern portion of the R&D Village. A joint program of the University of Maryland and the National Bureau of Standards is being planned by the County for the portion of the Life Sciences Center south of MD 28.

Just as the Life Sciences Center "anchors" the southern end of the R&D Village, a concentration of signature office buildings and related retail uses would anchor the northern end, near I-270. More intense development is proposed here, in part because the area is so well served by the regional transportation network (I-270, I-370, and Metro). This area also offers a tremendous opportunity to create an



## SHADY GROVE WEST AREA - R&D VILLAGE CONCEPT

- Village Boundaries
- ||||| Linear Open Space Feature
- ..... Residential Focus

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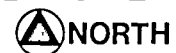


Fig. 4

identifiable entry into the R&D Village area from I-270. A "mixed use" planned concept is proposed to attract employers seeking an amenity-laden site for their employees and a high quality corporate image for their firms. The Plan envisions office and research buildings, conference and hotel facilities, apartment buildings, and a limited amount of retail uses.

The office character west of Shady Grove Road has already been established by existing office buildings. This Plan continues that character. Office uses are also confirmed for a 45-acre property just north of Key West Avenue.

Small scale retail uses are encouraged in employment areas to serve office and residential uses within the R&D Village.

The Washingtonian property, the Life Sciences Center, and commercial-office properties along Shady Grove Road encompass approximately 600 acres. This Plan supports designating additional acreage for employment uses, but the amount, density, and type of uses will be determined as part of a future Master Plan Amendment. (See next section for description of Amendment.) Until that time, the existing R-200 zoning of key parcels in the R&D Village area will continue.

Residential uses are an integral part of the R&D Village concept. This Plan recommends that 1500 dwellings be incorporated into the mixed-use development proposed for the Washingtonian property. Another 750-1000 units are recommended in the southwestern portion of the Village as a transition to residential development west of the I-370 Connector in the city of Gaithersburg.

Additional areas for residential development will be examined as part of the Master Plan Amendment discussed earlier. The Amendment will be guided by this Plan's objective to provide the opportunity for people, as much as possible, to live and work in the same community and to provide a wide range of housing types.

One of the components of the R&D Village is a pedestrian-oriented "commons area" which is proposed to traverse the Shady Grove West Area. The character of this open space feature will be determined by the land uses through which it passes. The "commons" would help create an urban, human-scale environment as compared to the usual automobile-oriented, suburban development pattern. It would also encourage pedestrian movement.

Two portions of Shady Grove West lie outside the R&D Village. These areas will form the transition between the R&D Village and existing suburban neighborhoods along MD 28.

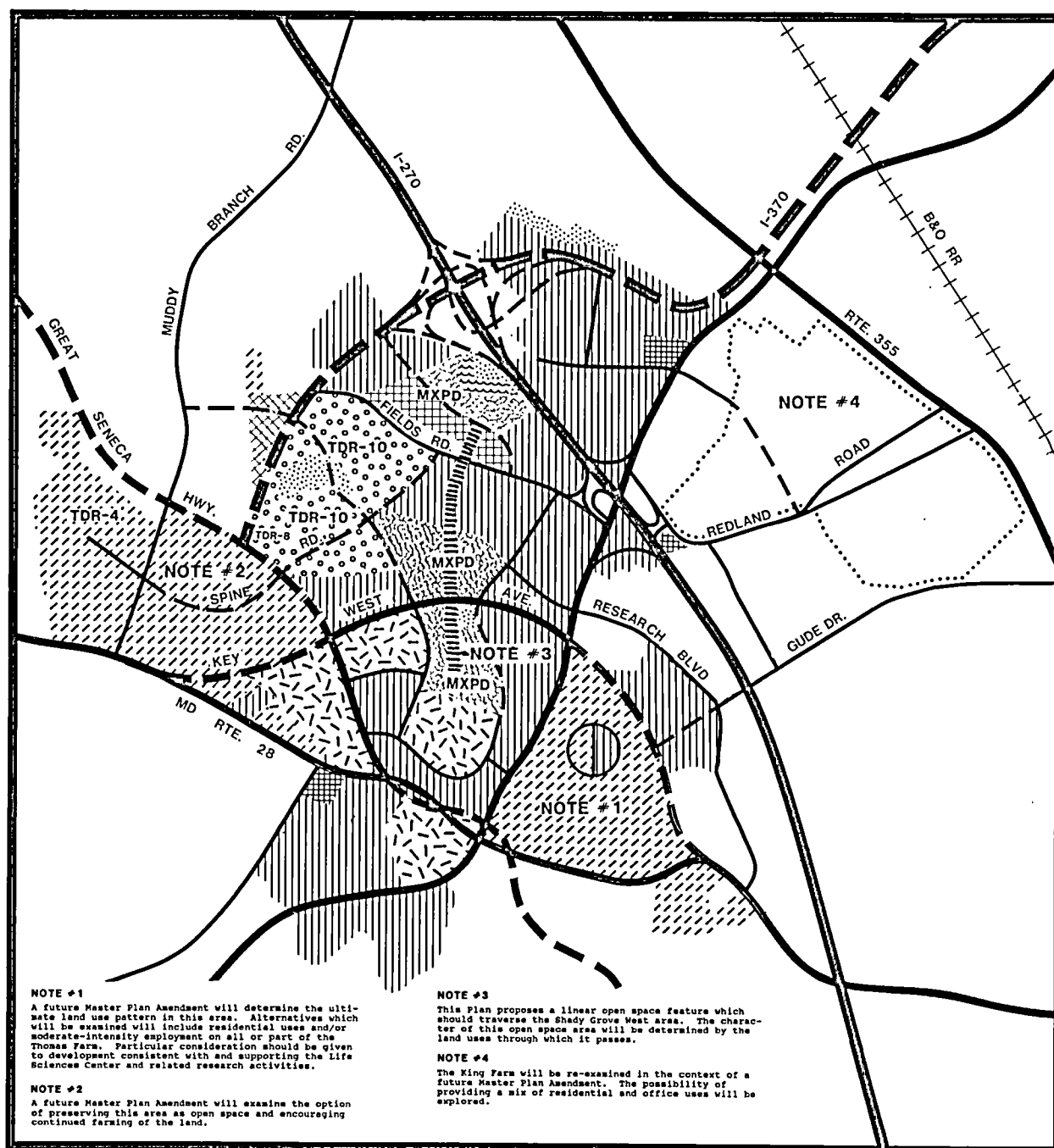
The Land Use Plan (see figure 5) and Generalized Zoning Plan (see figure 6) implement the R&D Village Concept.

#### Need for a Future Master Plan Amendment

Many properties in the Shady Grove West Area are proposed to be re-examined as part of a future Master Plan Amendment. (See figure 7.) Specific land use proposals for certain properties are not included at this time for the following reasons:

- Uncertainty as to long-term employment needs in the I-270 Corridor;
- Uncertainty as to the desirable balance of employment and residences in Shady Grove West;





## SHADY GROVE WEST AREA - LAND USE PLAN CONCEPTS

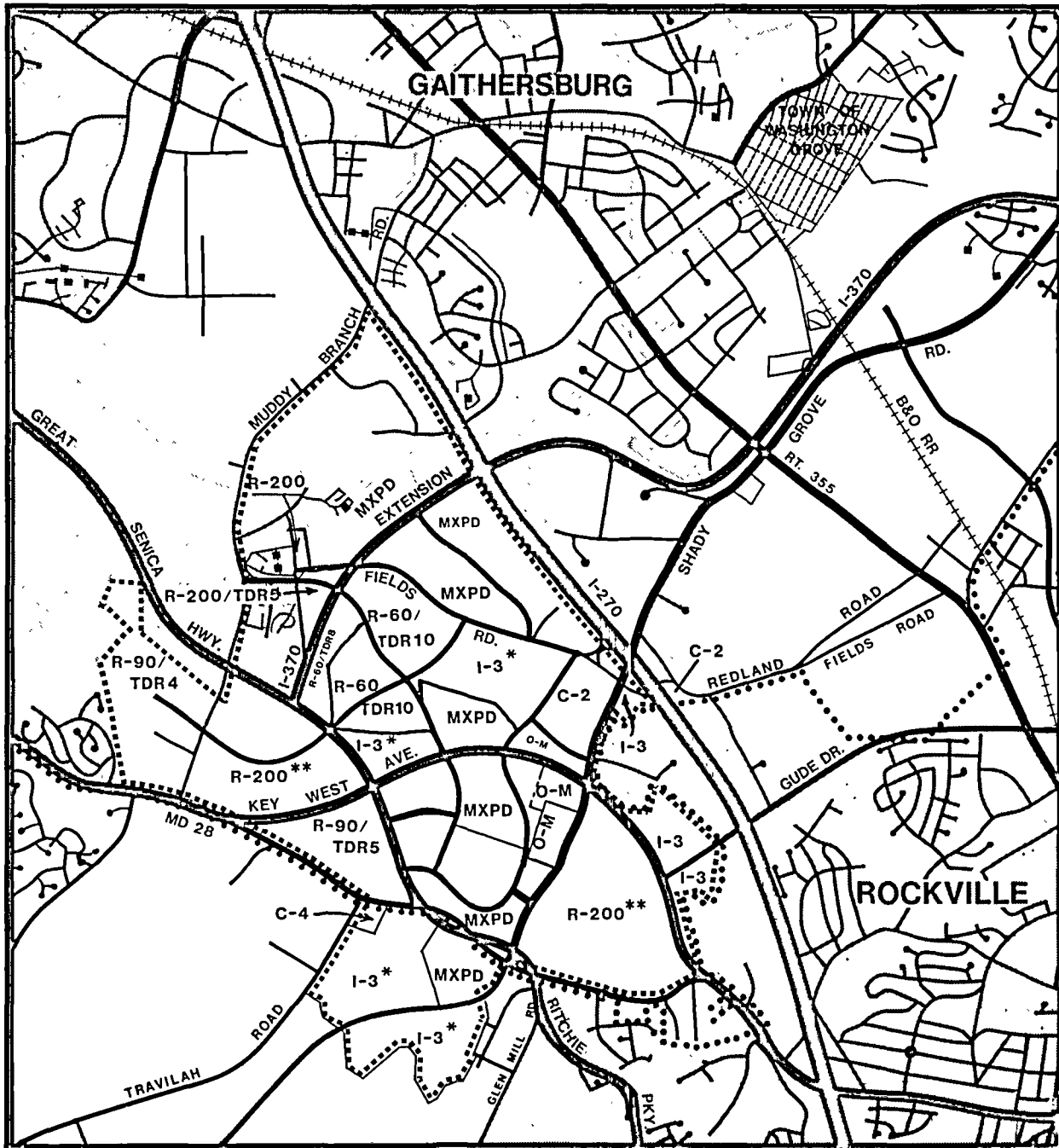
	2-4 Units Per Acre		Apartments		High Intensity Office
	5-6 Units Per Acre		Commercial Retail		Conservation / Open Space
	10plus Units Per Acre		Low Moderate Intensity Employment		Lake
			Public & Quasi-Public		

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Fig. 5



## SHADY GROVE WEST AREA - GENERALIZED ZONING PLAN

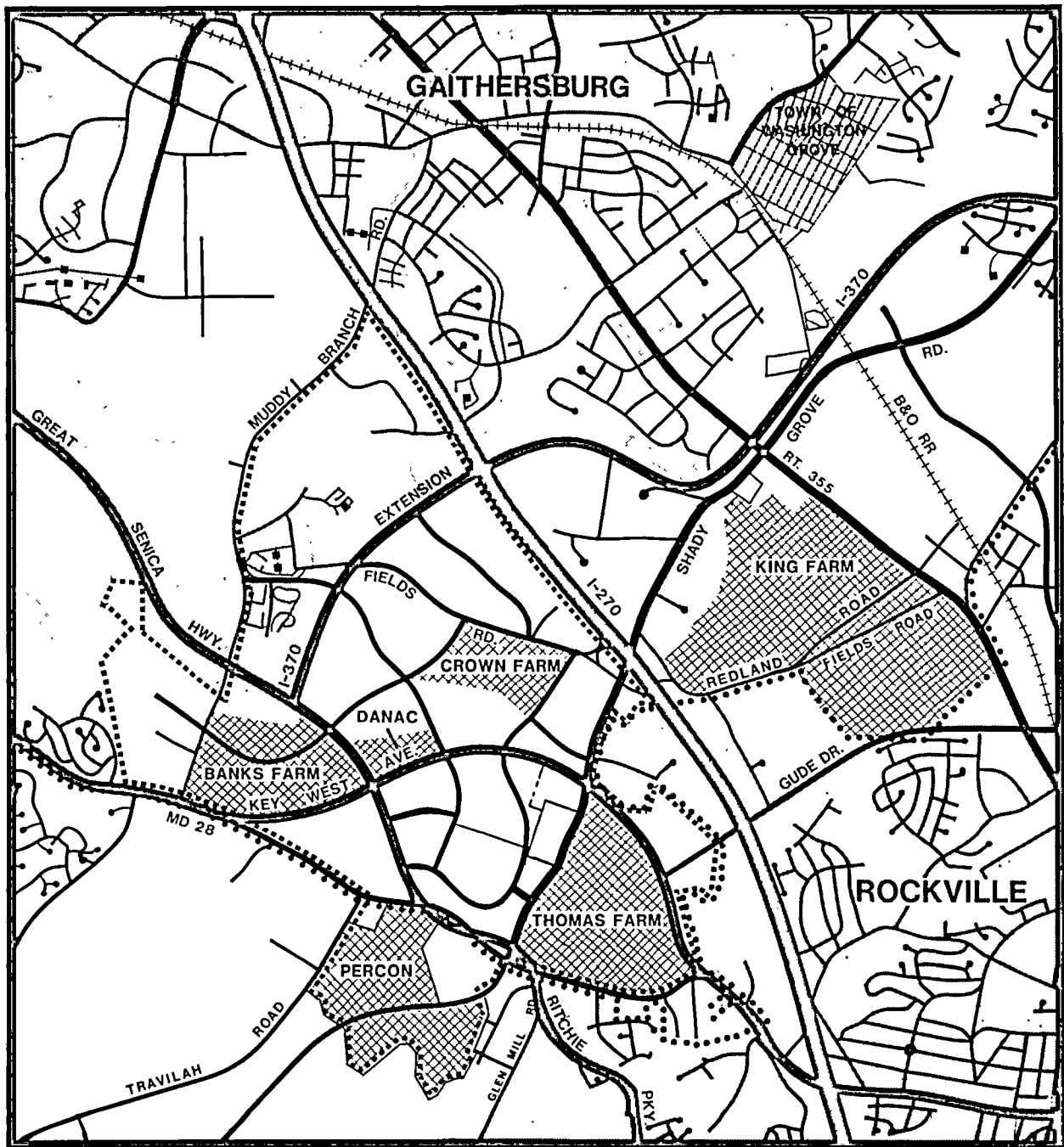
- \* Rezoning From R-200 To I-3 Will Not Occur Prior To A Master Plan Amendment
- \*\* Alternative Zones Will Be Considered As Part Of A Future Master Plan Amendment (see text)
- ..... Study Area Boundary

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**Fig. 6**



## SHADY GROVE WEST AREA - PARCELS SUBJECT TO FUTURE MASTER PLAN AMENDMENT

-  Municipalities
-  Parcels Subject To Future Master Plan Amendment
-  Study Area Boundary

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Fig. 7

- Community concern regarding the capacity of future roads to handle future growth;
- The need to monitor traffic as major new roads are programmed for construction;
- The need to re-examine the King Farm before "end-state" land use proposals are made for the balance of Shady Grove West. Even though the King Farm, included in the Shady Grove Sector Plan, lies just outside the area covered by this Master Plan, its development will strongly influence land use patterns in Shady Grove West and therefore should be studied together in a future Master Plan Amendment; and
- The need to monitor the progress of the cities of Rockville and Gaithersburg in establishing and implementing a staging program. Whether the cities will adopt such a program will influence the amount and timing of future development in Shady Grove West.

A future comprehensive Master Plan Amendment will proceed when three events occur:

- An I-270 Corridor Employment Study is completed;
- Additional information is available regarding the traffic capacity of the following two planned roadways: I-270 widening and the extension of Key West Boulevard from Gude Drive to MD 28; and
- Project planning studies for MD 28 in accord with Master Plan recommendations are completed.

#### LAND USE AND ZONING RECOMMENDATIONS BY DISTRICT

For planning purposes, the Shady Grove West Area has been divided into several districts, as shown in figure 8. More detailed analysis areas are shown in figure 10.

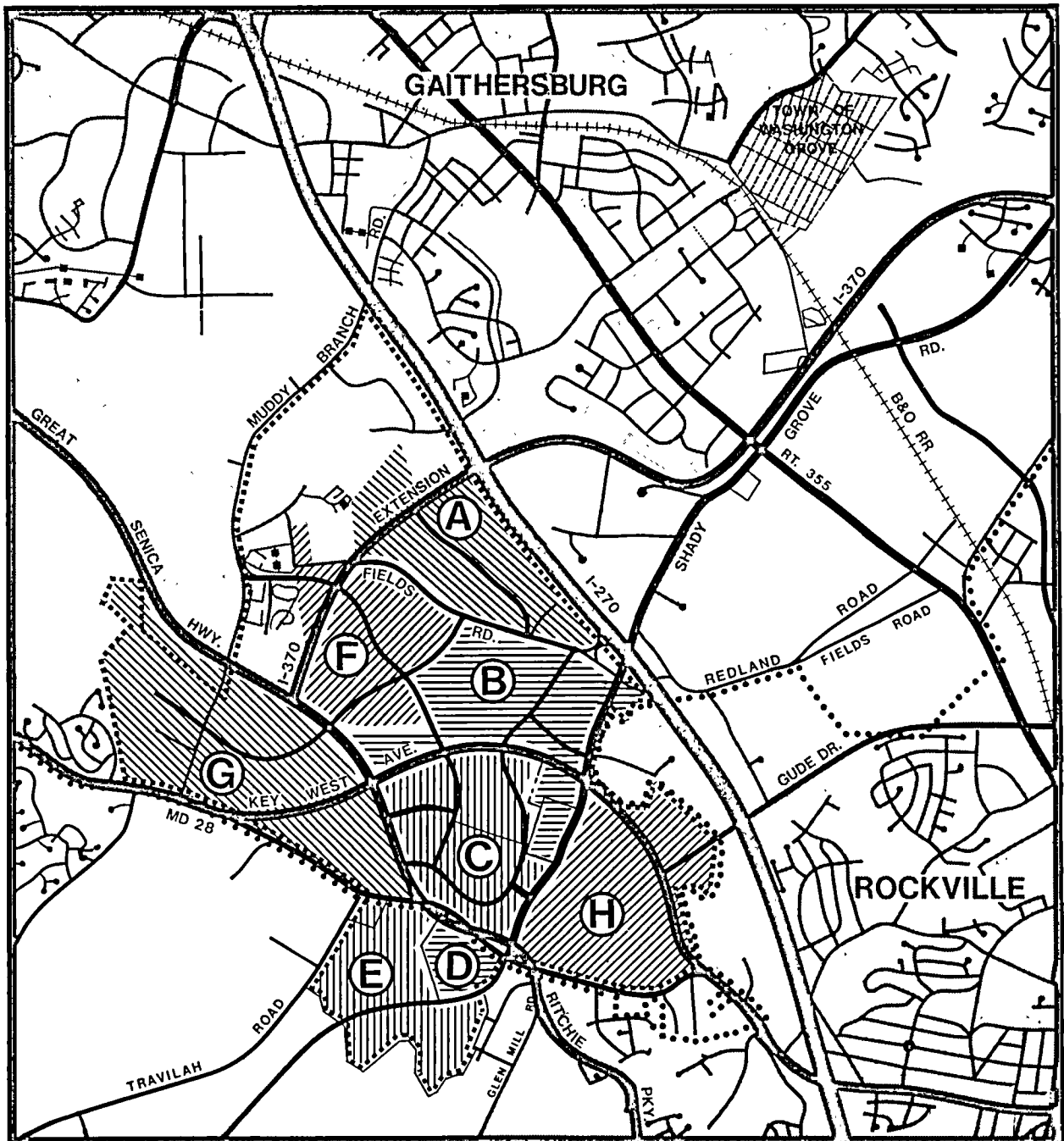
The R&D Village, which consists of approximately 1,150 acres, includes the following districts:

- A. Corporate District
- B. R&D District
- C. Bio-Technology District
- D. University District
- E. Conference /R&D District
- F. Residential District

The transition areas at the edges of Shady Grove West comprise the following districts:

- G. MD 28 Residential District
- H. Residential/R&D District (Thomas Farm)

Land use and zoning recommendations are presented by district.



## SHADY GROVE WEST AREA - DISTRICTS

(A-F) R&D VILLAGE

(A) Corporate District

(B) R&D District

(C) Bio-Technology District

(D) University District

(E) Conference Center District

(F) Residential District

(G) MD. 28 Residential District

(H) Residential / R&D District (Thomas Farm)

..... Study Area Boundary

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Fig. 8

## R&D Village Districts

### A. Corporate District

This district, comprising the Washingtonian Country Club, contains approximately 217 acres, most of which is vacant or available for redevelopment. It is bordered by I-270 on the north, the city of Gaithersburg limits on the northwest, Shady Grove Road on the east, and Fields Road on the south. The district will have access to I-370 at its northern edge.

Existing development includes the 97-room Quality Inn Motel and restaurant, the Washingtonian Country Club, and a Gulf service station.

The Corporate District is a key element in the overall development plan for Shady Grove West. This area is well suited for high-intensity office development for several reasons.

- This area is one of the most noise impacted areas in the Planning Area. The Plan recommends locating non-residential structures between I-270 and residential areas.
- With the completion of I-370, this area will have excellent access and visibility from the I-270 Corridor and is within two miles of Metro.
- The large acreage and ownership patterns on this site make it highly suitable for the Mixed-Use Planned Development (MXPD) Zone, which permits large scale, comprehensively planned projects staged over an extended period of time and carefully controlled by site plan review procedures.

Because of the importance of the Corporate District to this Plan, the site has been carefully studied. This Plan proposes the MXPD Zone because it presents the County with the best opportunity to re-develop this key parcel to the greatest advantage.

Approval of the MXPD application would be conditional on the applicant's meeting numerous design guidelines. These guidelines should include, but are not necessarily limited to, the following:

- Provide prestige "signature" office or research and development buildings;
- Respect the existence of the Washingtonian Tower and other adjoining communities in terms of site design quality and provide a vegetative buffer on the western edge of the Washingtonian Tower property;
- Mitigate the effects of noise from proposed I-370 through design and construction techniques;
- Provide vehicular access via the proposed loop and spine roads;
- Locate prestige "signature" buildings in the northwest portion of the site;
- Encourage decked or underground parking;

- Enhance existing ponds and landscaping;
- Retain or relocate existing vegetation to other areas on-site or along existing Fields Road;
- Retain trees along edge of proposed ramp from eastbound I-370 to southbound I-270;
- Locate the major focal-point building complex between the Washingtonian Tower and the existing motel;
- Encourage conference and hotel facilities;
- Encourage an interrelated development of office and residential uses; up to 1500 residential units are envisioned by the Plan if residences are integrated throughout the site. The number should be reduced to approximately 750 units if residential development only occurs southwest of the Washingtonian Tower;
- Locate residential uses at a maximum density of 27 dwelling units per acre southwest of Washingtonian Tower;
- Encourage a variety in the types and price range of residential units; and
- Encourage a variety of heights in office and residential structures with highest intensity near the linear open space feature.

The 209-unit Washingtonian Tower Condominium is located on property zoned R-10. No change is proposed in this zoning. Pedestrian access from this parcel to the newer development must be provided.

Base and Optional Zones. The Plan strongly encourages the development of the Corporate District in accord with the MXPDP Zone as the preferred method of development. The Plan recommends that new development not exceed a floor area ratio (FAR) of .75 over the entire site.

In the absence of an MXPDP application, the Plan recommends other optional zones for this area. They include R-H (Residential, High-Rise) and I-3 (Industrial Park). These zones require the property owner to submit to the Planning Board a detailed site plan showing how the property will develop. These zones may be requested by the developer at the time of Sectional Map Amendment.

#### B. R&D District

This district consists of a number of properties fronting Shady Grove Road, most of which are developed or committed to development, and several larger tracts of vacant land north of Key West Boulevard.

Area B-1 (a portion of the Crown Farm) comprises 82 acres. Now being farmed, this land is recommended for Low- to Moderate-Intensity Employment. Although the Zoning Plan shows I-3 for this property, re-zoning will not occur until a Master Plan Amendment is adopted. (See earlier discussion.)

Area B-2 is 45 acres in size and is presently zoned O-M (Office-Moderate

Intensity). The Plan recommends no change to the present O-M zoning for this parcel. The Plan does recommend an alternative optional zone for the property (MXPD) to encourage the owner to develop a mixed use center which would include some retail and residential as well as office uses.

The Plan establishes criteria for the granting of the MXPD application. The applicant will be expected to follow several design guidelines including, but not necessarily limited to, the following:

- Provide a pedestrian crosswalk midway between the proposed loop road intersections on Key West Avenue to allow for a connection from the commercial center to the Life Sciences Center mall extension to the south;
- Provide office/commercial uses on the central portion of site (south of stream);
- Provide a stormwater management pond upstream from the intersection of the existing water line and stream;
- Retain existing trees in proposed housing areas, to the extent possible;
- Provide a pedestrian connection to the eastern portion of Area B-3 (northeast of pond);
- Provide a pedestrian connection west across the loop road, approximately at its intersection with existing Decoverly Hall Road; and
- Provide vehicular access on both sides of the site from the loop road (encourage medians for left-turn lanes).

Area B-3 (4 acres) contains a single-family residence and adjoins Area B-2, which is zoned O-M. The western edge of the property is traversed by the proposed loop road. The Plan recommends medium-density (R-60 Zone) for this area, which is currently zoned R-200. The Plan designates the property for a TDR-10 option. The TDR-10 density is consistent with the existing and planned office/employment and moderate-density residential uses on the adjacent and surrounding areas.

The Plan encourages joint development of this parcel with Area B-2 in accord with the MXPD Zone.

The Plan establishes guidelines for future development. They include:

- Protecting the northern edge of the property which lies along a stream valley, and
- Providing a possible stormwater management pond east of an existing water line (that lies at the confluence of the stream).

Area B-4 (35 acres) fronts Key West Avenue. It is an important transition parcel in that it adjoins land to the north recommended for medium-density residential development.

A future Master Plan Amendment will determine the appropriate mix and intensity of employment uses. Maintaining an appropriate "edge" or buffer adjoining the residential area to the north will be a Plan Amendment concern.



Although the Zoning Plan recommends I-3 for this property, re-zoning from R-200 will not occur until a Master Plan Amendment is adopted.

Area B-5 (41 acres) is zoned C-2 and O-M.

Several office buildings with a combined floor area of 750,000 square feet have been approved and are under construction.

A small portion of the area (4 acres) has not yet been approved for development. Since it is zoned O-M (Office-Moderate Intensity), a site plan will be required before development is approved. The developer should prepare an overall design plan for this and the portion of the property now being developed to guide and coordinate the size, scale, character, and intensity of development.

The following design criteria should guide the preparation of an overall site plan for Area B-5:

- Utilize the south portion of the site for a stormwater management facility;
- Encourage access from proposed Omega Drive;
- Provide a connection to the interchange off-ramp from southbound I-270 as required by the County Department of Transportation and State Highway Administration;
- Limit development to four stories in height and a 0.5 FAR; and
- Provide a pedestrian connection to abutting parcels.

Area B-6 is 16 acres and fronts Key West Avenue. The Plan recommends no changes to the office employment land uses and the O-M zoning in this area.

At present, Decoverly Hall Road provides access to existing office and retail uses (Bank of Bethesda, BNA publishing). Access to BNA will ultimately be via Key West Avenue (MD 28 Relocated), and for the bank, Shady Grove Road.

In addition, the Plan recommends that any future development of the BNA property should have access from Omega Drive.

Area B-7 (12 acres) is zoned for moderate intensity office uses (O-M Zone) except for a small portion of the property zoned R-200. The Plan recommends changing the R-200 Zone to the O-M Zone to allow for the proposed office development.

Area B-8 (24 acres), located along Shady Grove Road, is currently zoned R-200 and includes several scattered single-family residences. The Plan recommends moderate-intensity office uses (O-M Zone) for this area because of the extensive road frontage and to accommodate office uses related to the Life Sciences Center. Approval of site plans will be guided by several design criteria. These include:

- Compatibility with design guidelines for the Life Sciences Center site;
- Provide access from the Life Sciences Center proposed loop road; and
- Provide extra landscaping along Shady Grove Road to screen parking located at the rear of buildings facing the proposed loop road.

Rezoning will not occur prior to a Master Plan Amendment in accord with the Staging Plan recommendations. Rezoning should await completion of a Development Plan for the Life Sciences Center to help assure development which is compatible with the Life Sciences Center.

Area B-9 (11 acres) contains several scattered low-density, single-family homes currently zoned R-200. The majority of this area is proposed as part of the proposed improvements to the interchange of Shady Grove Road and I-270. The Plan recommends employment uses for the balance of the property.

### C. Bio-Technology District

This District contains the Shady Grove Life Sciences Center (formerly called the Montgomery County Medical Center) and other institutional uses.

Area C1 (211 acres) consists entirely of the Shady Grove Life Sciences Center. The County would like to attract a wide range of bio-medical industries and a university-affiliated research center to the Shady Grove Life Sciences Center.

Existing facilities include: Shady Grove Adventist Hospital, Psychiatric Institute of Montgomery County, Ambulatory Care Office Building, the central heating and cooling plant, fire station, and State of Maryland facilities.

When completed, the complex will contain a mixture of medical, educational, research, and supporting services to accommodate locations for new industries as well as the growth of existing life science research and development corporations and related industries. The amenities and support facilities include, but are not limited to: health and jogging facilities, green areas, restaurants, pedestrian space, and convenience retail facilities.

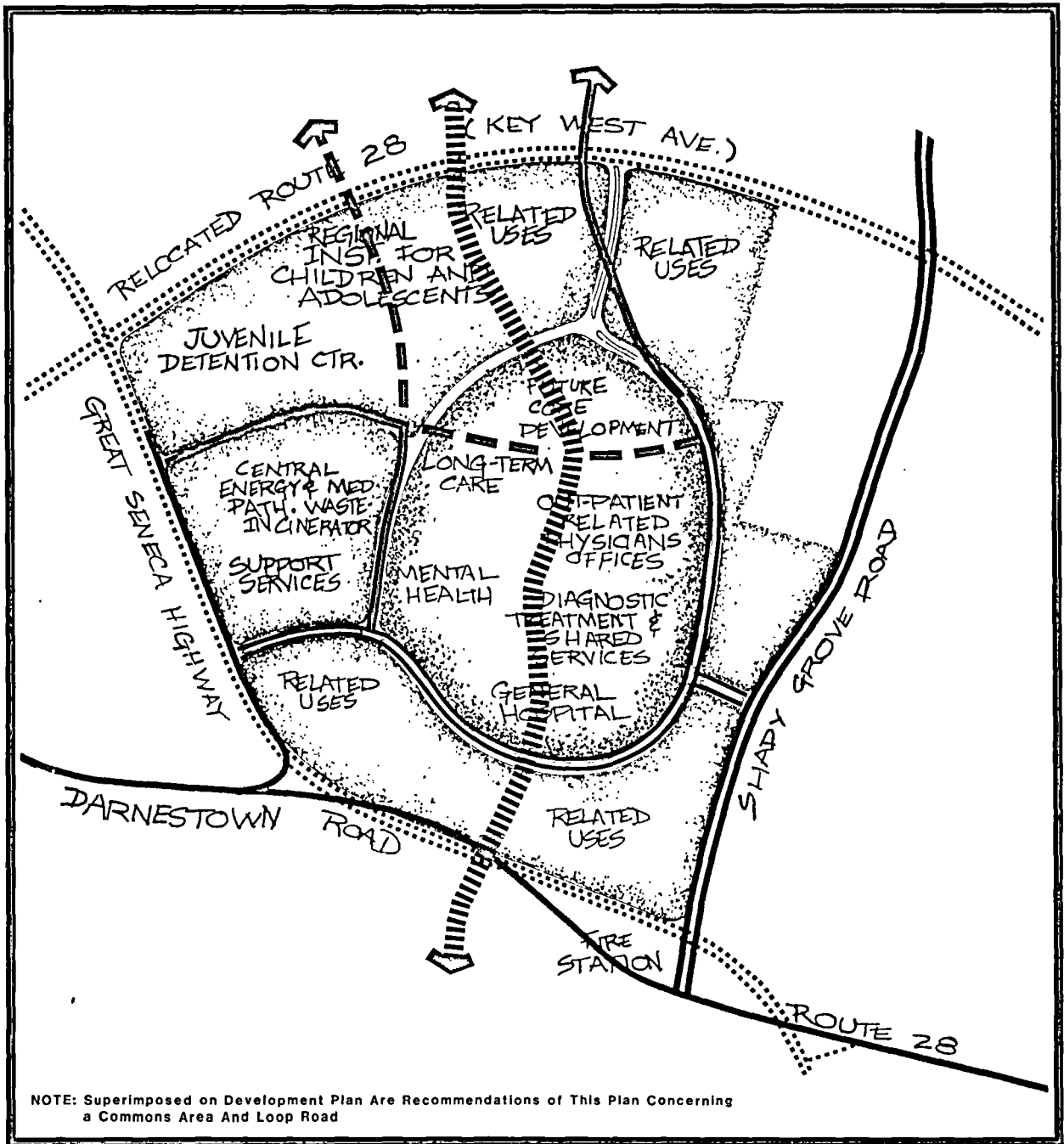
Development of the Shady Grove Life Sciences Center is guided by the Montgomery County Medical Center Development Plan, originally approved and adopted by the County Council in 1976. The Development Plan map is shown in figure 9.

Recently, the Medical Center Development Plan was amended to add several uses. They include:








- Speech, language, hearing, and physical therapy services;
- A retail establishment in the Ambulatory Care Office Building;
- Bio-medical research and development, and diagnostic and professional support services;
- Medical science and health care-related light assembly and production; and
- Scientific, medical, and health-related associations.

This Plan recommends that the Development Plan be re-examined for several reasons.

- The nature and scope of uses envisioned at the Life Sciences Center have substantially changed since 1976. The Development Plan text has



## MONTGOMERY COUNTY MEDICAL CENTER DEVELOPMENT PLAN

- |  |   |
|--|---|
|  Proposed Commons Area    |  Medical Core                      |
|  Existing Roads           |  Related Uses And Support Services |
|  Proposed Road Extensions |  Private Property                  |
|  Future Roads             |   |

SOURCE: Approved And Adopted Montgomery County Medical Center Development Plan Montgomery County Government February 1976

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Fig. 9

been amended to add additional uses, and even the name of the center has been changed to reflect a broader development scope (from Medical to Life Sciences Center).

- This Plan includes land use and design concepts which should be reflected in future development at the Life Sciences Center (e.g., a linear open space feature which extends the existing mall northward through the core area).
- A new zone has been developed (MXPD) which is appropriate for the Life Sciences Center. As an alternative to amending the Development Plan, the County should explore the advantages of applying for the MXPD Zone. Until that time, this Plan continues the existing R-200 Zone.

Because the Shady Grove Life Sciences Center is such an important part of the Shady Grove West Study Area, it merits a detailed design study separate from this Plan. The design study should be guided by the following land use objectives:

- Encourage the development of bio-medical research and development activities to enable the Life Sciences Center to become one of the finest medical research activity and care facilities in the nation;
- Encourage the development of the Life Sciences Center in accord with the MXPD Zone; until such time as an application is approved, the Plan recommends retaining the low-density residential (R-200 Zone) category for the Life Sciences Center property;
- Retain floodplains and wet and erodible soils in their natural state;
- Provide a pedestrian oriented open space feature through the Life Sciences Center at the general location shown on the Land Use Plan map;
- Locate the pedestrian connection from the open space feature southward to the east side of the hospital;
- Provide pedestrian connections from the open space feature to outlying parcels;
- Continue to orient buildings close to the mall;
- Encourage mixed-use diversity and interdependence of functions on uncommitted land;
- Encourage mid-rise development of mixed uses adjoining Key West Avenue to provide visual focus and urban core for entire Life Sciences Center site;
- Encourage deck or underground parking to provide the opportunity for more landscaped areas and open space;
- Provide a location for a 200- to 400-room hotel/conference center in the core; and
- Encourage office/commercial and worker-related retail development east of the commons.

Area C-2 (22 acres) is not part of the Life Sciences Center complex but includes the State of Maryland facilities of the Noyes Detention Center and the Regional Institute for Children and Adolescents. The Plan recommends a continuation of the existing institutional land uses and the R-200 Zone which permits group residential facilities as special exceptions.

Area C-3 (7 acres) is the location of a temporary County fire station. A future, permanent fire station facility is planned for the site. The Plan recommends no change to the existing institutional land use or the R-200 Zone for the parcel. The MXPDP Zone is appropriate for this parcel, if ever redeveloped.

#### D. University District

Area D (50 acres) is undeveloped and was donated to the County by the Gudelsky Foundation for public use as a memorial to Isadore Gudelsky. The County Office of Economic Development is currently programming the tract for major educational or institutional uses. This designation is compatible with the objectives of this Plan.

The Plan recommends the continuation of the low-density, single-family use (R-200 Zone) wherein institutional uses may be permitted by special exception. The Plan designates that property as suitable for the proposed MXPDP Zone since it is part of the Life Sciences Center. The development of this area should be integrated in the development of the Life Sciences Center. The R-200 Zone should be retained until an application for the proposed MXPDP Zone is approved. The Medical Center Development Plan would follow the established mandatory referral procedures including site plan and other reviews. In the interim, development proposals should be followed in the same manner as they are for the Life Sciences Center. In any case, the projected traffic impact of any proposed uses need to be reviewed as would any development in the area.

The Plan recommends several design guidelines for the property.

- Extend Shady Grove Road along the southeastern border.
- Provide a pedestrian connection northward to the hospital path and to the mall.
- Provide a stormwater management site, if needed, at the southern tip of the property.
- Allow for the relocated right-of-way of proposed Great Seneca Highway/ MD 28.
- Provide for noise attenuation along MD 28 and Shady Grove Road.

#### E. Conference Center/R&D District

This District is approximately 178 acres in size. A conference center would be highly desirable in this vicinity to complement the Life Sciences Center north of MD 28 and the university campus planned for the adjoining Gudelsky tract.

Area E-1 (178 acres) is the recommended location of the conference center and the R&D industrial park. The major planning issue regarding this property is whether R&D uses should accompany a conference center since this area is designated as residential by the County's General Plan since it marks the beginning

of the rural "wedge" area of Potomac. The relationship of R&D uses to the General Plan recommendation must be explored in more detail as part of a future Master Plan Amendment. For this reason, this Plan designates Area E-1 for Low- to Moderate-Intensity Employment but recommends that the existing residential zoning (R-200) be continued until a Master Plan Amendment is completed. That Amendment will examine the appropriate mix, type, and intensity of residential and employment uses; the capacity of the Master Plan road network to accommodate such uses; and the relationship of employment uses to surrounding residential areas.

The Planning Board's environmental analysis indicates that this area has several development constraints. Limitations that must be dealt with in any development scheme include the lack of nearby water and sewer facilities, excessive stormwater runoff and sediment contributions, high noise levels along MD 28 and Travilah Road, and soils with severe erosion potential. Shallow bedrock is also evident in this area. For all of these reasons, only development that assures maximum amounts of open space and environmental sensitivity should be approved in this District.

The type and density of development in this area will depend on the availability of sewerage service. The use of pumping stations and force mains, which are not recommended as a general practice, may be permitted until and unless service can be provided through gravity sewers if the developer(s): (1) pay the capital and operating costs for these temporary facilities, and (2) agree to provide service on a cost-sharing basis to the Gudelsky tract (part of the Life Sciences Center) if requested to do so by Montgomery County. Without sewer service, only low-density residential development is feasible, since poor soils and shallow bedrock require large lots for septic systems.

If this major obstacle is overcome, development which maximizes open space on this site will be encouraged. The location of this property in the headwaters of Piney Branch requires that extensive land disturbance be avoided and impervious surfaces be kept to a minimum so that there is very little increase in sedimentation in the stream. Only development assuring the maximum amount of open space and environmental sensitivity should be approved for this district.

The realignment of Shady Grove Road south of MD 28 to intersect Travilah Road or Piney Branch Road will be explored during the Master Plan Amendment process. Regardless of the alignment selected, setbacks, berms, or barriers will be necessary to deal with the potential impact on residents of noise and dust caused by trucks hauling crushed stone along the new alignment to MD 28.

Area E-2 (7 acres) consists of a gas station, restaurant, and vacant lot located at the southeast corner of Travilah Road and MD 28. The Plan continues commercial land uses at this site but recommends changing the existing C-1 zoning to the C-4 Zone. The C-4 Zone allows low-intensity commercial development but, unlike the C-1 Zone, includes an option for an increased amount of floor area if a site plan is submitted to the Planning Board and approved.

#### F. Residential District

The 213 acres located in this district are recommended for residential uses to support the proposed economic development activities in the R&D Village. Now being predominantly used for agricultural activities, the district is situated between existing townhouse communities to the west, proposed MXPDP areas to the north and south, approved office/commercial to the east, and proposed residential areas to the southwest.

Area F-1 (96 acres) is predominantly used for agricultural activities. There are several agricultural buildings as well as one home. The Plan recommends medium-density residential uses (R-60 Zone) as the base density for this property, currently zoned R-200. The Plan further designates this area as a TDR receiving area, suitable for an optional density of up to ten dwelling units per acre (TDR-10). The proposed residential development on this site will help to provide housing opportunities for some of the future employees who will have jobs in the I-270/Shady Grove West Area.

Area F-2 (42 acres) is undeveloped and traversed by proposed I-370 Extended. It is located immediately east of the Warther tract, a medium-density residential subdivision in the city of Gaithersburg. The developer of Area B-6 is building on the Warther tract and intends to develop this area once the location of proposed I-370 Extended is finally determined. A portion of the area is severely affected by environmental constraints (roadway noise, highly erodible alluvial soils, and floodplains).

The Plan recommends medium-density residential land uses (R-60 Zone) for this area and an optional density of eight dwelling units per acre using TDR's. A density consistent with the adjoining Warther community could be achieved with future development clustered away from the environmentally sensitive areas. Achieving the maximum density under the TDR-8 option will depend on the dwelling unit type and size used on the site. The moderate-density residential development will provide housing to support the Shady Grove West Study Area's economic development activities.

The Plan recommends several design guidelines for the development of this area. They include:

- Providing a noise buffer for areas located along proposed I-370 Extended and Great Seneca Highway;
- Clustering housing east of the stream valley;
- Providing an attractive stormwater management facility; and
- Providing access for future housing through Area F-3 from the proposed spine road.

Area F-3 (54 acres) is generally undeveloped but interspersed with four scattered, single-family homes. Existing and planned land uses in the area are predominantly residential in character. The Plan recommends a medium-density residential land use (R-60 Zone) for this area, which is currently zoned R-200, and designates it as a TDR receiving area, suitable for a density of up to ten dwelling units per acre. This density is consistent with nearby land uses including office/employment, open space, and major roadway.

The Plan recommends that access to the property should be from the extension of the loop road and not from Decoverly Hall Road. Because of difficulties with the extension of the loop road, the County should agree to participate in acquisition of the remaining parcel in the future right-of-way. The loop road will replace old P-18 in the 1971 Gaithersburg Vicinity Master Plan.

The design guidelines for the development of this area include:

- Providing access solely from proposed spine and loop roads;

- Providing a possible stormwater management wet pond in the stream valley;
- Retaining a buffer of existing trees along proposed Great Seneca Highway and providing a noise buffer along proposed Key West Avenue;
- Protecting steep slopes along the north boundary and clustering density away from slopes; and
- Consolidating existing single-family units into future plans.

Area F-4 (17 acres) is an undeveloped area that lies immediately east of the city of Gaithersburg's Warther and Shady Grove Village townhouse communities. The Plan recommends keeping the existing single-family residential uses (R-200) and designates this area as a TDR receiving area, suitable for a density of up to five units per acre. The TDR-5 designation will provide for the same character of development as the surrounding medium-density uses. There is some uncertainty as to whether this density can be fully achieved, given the presence of the highway and the compatibility issues with the single-family units. This density increase is site specific and especially intended to serve the public purpose of implementing the Preservation of Agriculture and Rural Open Space Plan. Noise attenuation measures, such as buffer and planting along proposed I-370 Extended, should be encouraged.

A variety of dwelling types is encouraged.

Area F-5 (4 acres) is undeveloped and is bordered by the city of Gaithersburg corporate limits on three sides. This parcel adjoins the Shady Grove Village Condominium property. It should continue to be zoned for one-half acre residential uses (R-200 Zone). The Plan recommends retaining this wooded area for open space or passive recreational use or both. If this parcel develops in conjunction with other portions of the Crown Farm, the Plan encourages the developer to transfer, if possible, the density to those other portions.

#### Districts Outside the R&D Village

##### G. MD 28 Residential District

The proposed land use pattern in this District is residential. Existing or proposed residential development surrounds the District with only one exception: the County operated Public Services Training Academy.

This Plan proposes residential densities that allow detached and attached housing types and specifically recommends that a mix of both types be provided. Other portions of the Shady Grove West Study Area will provide apartments and higher-density attached units. This District is proposed as a transition to surrounding one-half acre and one-quarter acre lot subdivisions, so a greater proportion of detached housing is envisioned here than in other portions of Shady Grove West.

Area G-1 (158 acres) contains the Washingtonian National Golf Course and the Consumer Product Safety Commission (CPSC). It is adjacent to a portion of the Westleigh subdivision within the city of Gaithersburg.

The Plan recommends low-density residential uses (R-90 Zone) for this area. The Plan encourages the continuation of the public institutional use for the



Consumer Product Safety Commission but recognizes the probability of eventual alternative development. This Plan further designates this area as a TDR receiving area and recommends that it be allowed to develop to a density of four units per acre (TDR-4). This increased density can be attained only by the transfer of development rights from the Agricultural Reserve area of the County. This parcel lies within the Maximum Expansion Limits of the city of Gaithersburg, but the city has recently rejected an annexation request. (See Implementation Chapter for Annexation policy.)

The Plan recommends certain guidelines to help assure the compatibility of future development to surrounding uses. They include:

- Cluster housing to preserve natural features such as slopes, valleys, and ponds, and to avoid floodplains, steep slopes, and severely erodible soils;
- Retain trees at their present location. If this is not possible then they should be replanted on-site or selectively relocated to the proposed spine road;
- Provide noise abatement measures, if needed, along Muddy Branch Road;
- Create a dense buffer on the western boundary with evergreen trees;
- Retain a buffer of trees surrounding the CPSC facility;
- Plant trees along MD 28 to enhance the present rural character and provide a psychological noise buffer. Selective use of landscaped berms may be necessary for noise mitigation;
- Provide access from the proposed spine road connecting across Muddy Branch Road from Area F-2; and
- To assure compatibility, encourage the development of 10,000-square-foot lots along the Westleigh boundary.

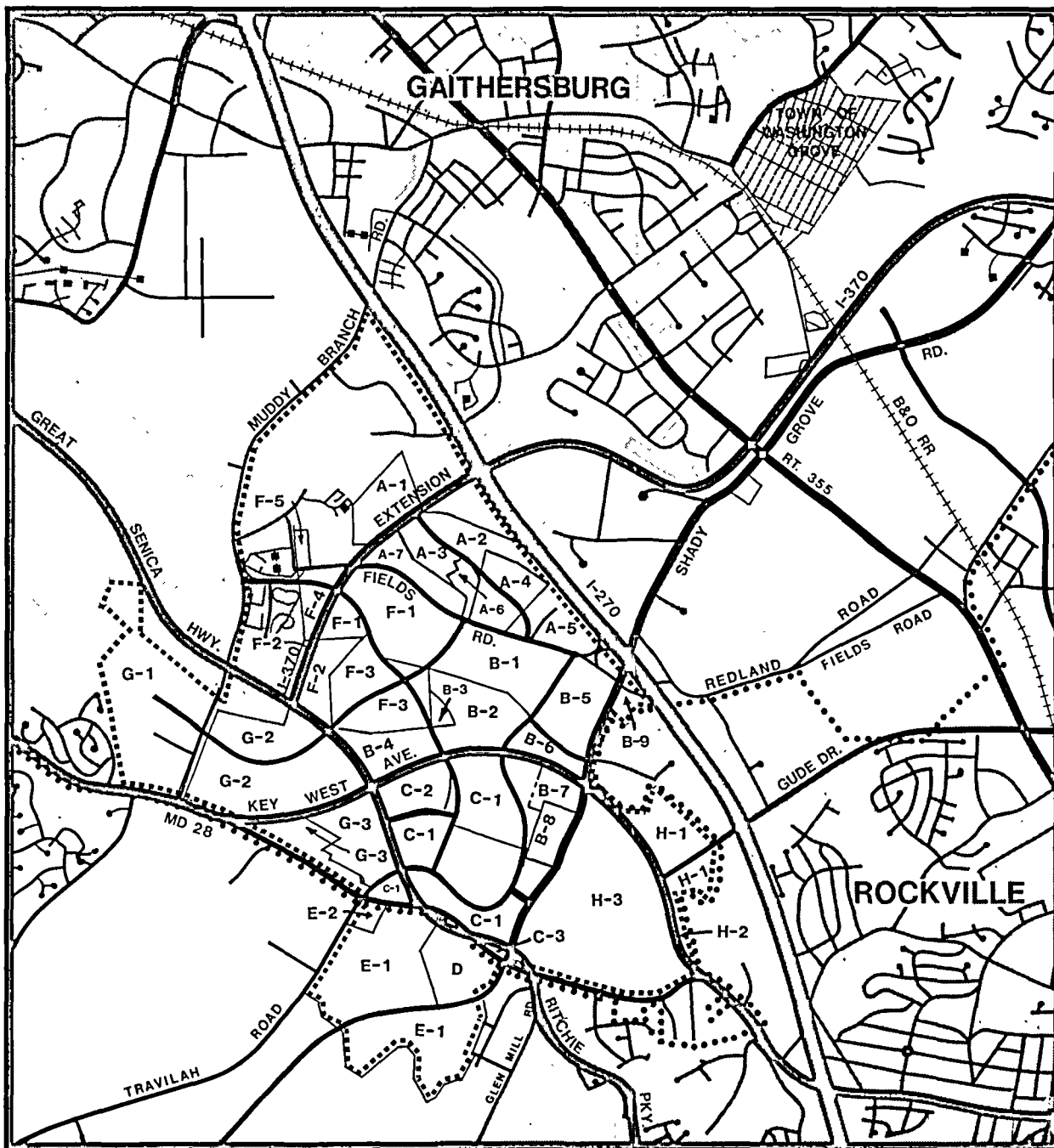
The Plan recommends that community facilities for the use of the residents should be part of the subdivision plan although a public, local, or community park is not warranted in this location. For a fuller discussion of the recreational needs of this area, see the Community Facilities Chapter.

Area G-2 (159 acres) is a working farm (Banks Farm).

The Plan confirms the existing low-density zoning (R-200 Zone) for this farm and recommends that ultimate land use be determined by a future Master Plan Amendment. This future Amendment will examine the option of preserving this area as open space and encouraging continued farming of the land.

Any future development of this area should achieve compatibility with the Belward Farm building group and its setting, recognizing the visual relationship between the house and MD 28 and between the building group and the future spine road to the north.

Future uses of the building group may include but not be limited to community services, cultural facilities, clubs, and the like. Vehicular and visual access to the buildings should be provided both from MD 28 and from the future spine road.



## SHADY GROVE WEST AREA - ANALYSIS AREAS

..... Study Area Boundary

A Corporate District

B R&D District

C Bio-Technology District

D University District

E Conference Center District

F Residential District

G MD. 28 Residential District

H Residential / R&D District (Thomas Farm)

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Fig. 10

TABLE 2  
SHADY GROVE WEST ANALYSIS AREAS  
SUMMARY OF ZONING RECOMMENDATIONS

Analysis Area Number	Acreage	Existing Development	Recommended Zoning Base/Optional	Potential Units Recommended <sup>1</sup> Base/Optional	Net TDR's Over Base Density
<b>A. CORPORATE DISTRICT</b>					
A-1	25	--	R-60/MXPD	125/0	0
A-2	78	--	I-1/MXPD <sup>1</sup>	0/0	0
A-3	15	--	R-30/MXPD <sup>1</sup>	218/0	0
A-4	29	Golf Course	I-1/MXPD <sup>1</sup>	0/750	0
A-5	30	Motel, County Club	C-2/MXPD <sup>1</sup>	0/0	0
A-6	7	209 multi-family	R-10	209/209	0
A-7	33	--	R-60/MXPD	165/750	0
TOTALS	217			717/1709	0
<b>B. R &amp; D DISTRICT</b>					
B-1	82	--	R-200/I-3 <sup>2</sup>	164/0	0
B-2	45	--	O-M/MXPD	0/400	0
B-3	4	--	R-60/MXPD	20/0	0
B-4	36	--	R-200/I-3 <sup>2</sup>	72/0	0
B-5	37	950,000 s.f. (under construction)	C-2/O-M	-	0
B-6	16	100,000 s.f.	O-M	-	0
B-7	12	220,000 s.f.	O-M	-	0
B-8	24	1 house	R-200/O-M	48/0	0
B-9	11	3 houses	R-200/I-3	22/0	0
TOTALS	267			326/400	0
<b>C. BIO-TECHNOLOGY DISTRICT</b>					
C-1	211	Hospital Physicians Bldg.	R-200/MXPD	0/200	0
C-2	22	St. of Maryland Facilities	R-200	-	0
C-3	7	Fire Station	R-200/MXPD	-	0
TOTALS	240			0/200	

<sup>1</sup> Although the preferred optional zone for these analysis areas is MXPD, other optional zones which include site plan review will be considered at the time of Sectional Map Amendment if requested by the applicant. These site plan zones include I-3 as an alternate to I-1 and R-H as an alternate to R-30.

NOTE: Densities indicated are the maximum permissible, without the bonus for providing Moderately Priced Dwelling Units (MPDU's). Any subdivision of 50 or more units must include 12.5% MPDU's, in which case a density increase of up to 20% and optional development standards and unit types are permitted. Densities do not reflect cluster densities.

<sup>2</sup> A Master Plan Amendment and restudy of the I-3 Zone will precede rezoning to I-3.

TABLE 2 (Cont'd.)

Analysis Area Number	Acreage	Existing Development	Recommended Zoning Base/Optional	Potential Units Recommended Base/Optional	Net TDR's Over Base Density
<b>D. UNIVERSITY DISTRICT</b>					
D	50	--	R-200/MXPD <sup>3</sup>	100/100	0
TOTALS	50			100/100	
<b>E. CONFERENCE CENTER/R&amp;D DISTRICT</b>					
E-1	197	--	R-200/I-3 <sup>4</sup>	394/0	0
E-2	7	Convenience store offices	C-4	-	0
TOTALS	204			394/0	
<b>F. RESIDENTIAL DISTRICT</b>					
F-1	96	--	R-60/TDR-10	480/960	480
F-2	42	--	R-60/TDR-8	210/336	126
F-3	60	--	R-60/TDR-10	300/600	300
F-4	17	--	R-200/TDR-5	34/85	51
F-5	4	--	R-200	8/8	0
TOTALS	219			1,032/1,989	957
<b>G. MD 28 RESIDENTIAL DISTRICT</b>					
G-1	158	Golf Course	R-90/TDR-4	569/632	63
G-2	159	2 houses	R-200 <sup>5</sup>	318/318	0
G-3	64	Public Service Training Academy, Medical Clinic 10 houses	R-90/TDR-5	230/320	90
TOTALS	381			1,117/1,270	153
<b>H. RESIDENTIAL/R&amp;D DISTRICT (THOMAS FARM)</b>					
H-1	49	--	R-200/I-3	98/0	0
H-2	7	--	R-200/I-3	14/0	0
H-3	223	--	R-200 <sup>6</sup>	446/446	0
TOTALS	279			558/446	0
OVERALL TOTALS	1,857			4,244/6,114	1,110

<sup>3</sup> MXPD if developed jointly with Bio-Technology District MXPD

<sup>4</sup> A Master Plan Amendment and restudy of the I-3 Zone will precede rezoning all or part of this tract to I-3.

<sup>5</sup> A future Master Plan Amendment will examine alternate residential densities.

<sup>6</sup> A future Master Plan Amendment will explore the desirability of providing a mix of employment and residential uses.

Area G-3 (64 acres) is the location of the County Public Service Training Academy (PSTA), medical clinic, two churches, and scattered single-family homes.

The Plan recommends changing the existing one-half acre zoning (R-200) to one-quarter acre zoning (R-90) to reflect proposed development densities to the east and south. The Plan further recommends that the church property and scattered homes would be appropriate for institutional uses available in the R-90 Zone through the special exception process.

In the event that part of the PSTA property becomes available for residential development, the Plan recommends a TDR optional density of five units per acre. The Plan recommends several design guidelines for future development on the property which include:

- Possibly relocating the stormwater management facility from the other side of Great Seneca Highway to the north corner of the PSTA, and
- Retaining the wooded buffer on the south and west.

#### H. Thomas Farm Residential/R&D District

Area H-1 (49 acres) and Area H-2 (7 acres) are separated from the main portion of the Thomas Farm by Key West Avenue (MD 28 Relocated). Existing and planned land uses in the area north of Key West Avenue are predominantly office employment in character. The Plan designates these properties as suitable for office and industrial uses (I-3 Zone) due to their location near major planned roads and other similar uses. Industrial and office uses are, however, dependent upon the programming of adequate roadway improvements. Key West Avenue Extended is essential to service this area. Only when this roadway is programmed for construction will the property be suitable for rezoning to office and industrial uses. In the interim, the Plan recommends maintaining the R-200 Zone. Any development proposed should protect the stream valley, steep slopes, and the floodplain and buffer the site from proposed Key West Avenue.

Area H-3 (223 acres), the major portion of the Thomas farm, is presently used as a dairy farm. The Locational Atlas shows this property as the location of site #20/19, Windy Knoll Farm, which is the main farm building complex.

The ultimate or "end-state" land use of the Thomas Farm will be determined by a future Master Plan Amendment. Alternatives which will be examined include residential uses and moderate-intensity employment on all or part of the farm. Particular attention will be given to development which would be consistent with and supportive of the Life Sciences Center and related research activities.

Until a Master Plan Amendment is completed, Area H-3 should remain in the R-200 Zone.

The following design guidelines should be considered in any future Master Plan Amendment affecting the Thomas Farm:

- Preserving the scenic beauty of the farmhouse and drive by clustering new development away from them;
- Providing wet stormwater management ponds in two valleys near the eastern edge of the farm;

- Providing access from MD 28 and Shady Grove Road (at Life Sciences Center entrance);
- Retaining the woods in the stream valleys;
- Locating the stormwater management ponds upstream from the woods in the valley;
- Protecting steep slopes and stream valleys;
- Providing noise attenuation by devices such as landscaped berms along Shady Grove Road, MD 28, and proposed Key West Avenue Extended; and
- Providing larger lots along MD 28 to maintain the existing visual character along that roadway.

#### AIRPARK STUDY AREA

This area is characterized by three major land use elements: industrial areas, residential areas, and the Montgomery County Airpark. The Airpark, the area's most prominent land use, is flanked by industrially zoned land, with areas of parkland off either end of the runway. These land uses separate the Airpark from the existing and future residential communities that constitute the remainder of the Study Area. The residential communities are diverse and include a wide range of densities, types of units, and types of tenure.

One of the major concerns of this Plan is the capacity of the master-planned roadway network as compared to the traffic generated by land use in the area and the traffic passing through the area. To address this concern, the Plan makes the following recommendations:

- A new road, Airpark Road Extended (A-268), should be constructed to provide parallel service to Muncaster Mill Road from MD 124 to proposed Shady Grove Road Extended. This road will provide much-needed, additional east-west traffic capacity. Without Airpark Road Extended, Muncaster Mill Road will eventually operate at an unacceptable level of service; and
- The majority of undeveloped industrial land adjacent to the Airpark is recommended for I-4 zoning. In the I-4 Zone, general offices are a special exception use. In reviewing applications for general offices, the Planning Board will review whether the traffic generated by the office development is compatible with the capacity of the roadway network.

Unlike Shady Grove West, the land use pattern in the Airpark Study Area is largely established. Instead of proposing new plan concepts for extensive amounts of vacant acreage, this Plan addresses land use and zoning for relatively small parcels surrounded by existing development. For this reason, most of the land use and zoning recommendations are presented in a tabular form at the end of this section.

#### Land Use Plan Objectives

- To create a transition from the more urbanized I-270 corridor to the wedge area north and east.

- To reflect the capacity of the master-planned roadway network in land use recommendations.
- To channel employment and higher residential densities to areas which can be efficiently and effectively served by mass transit.
- To channel non-residential land uses to areas most affected by Airpark noise.
- To provide additional acreage for incubator industrial uses.

#### Montgomery County Airpark

One of the major influences upon land use in the Airpark Study Area is the Montgomery County Airpark.

The Montgomery County Airpark is a small, general aviation airport located approximately seven miles from I-270 in the central portion of Montgomery County. Over 300 airplanes are based at the Airpark; most of these aircraft are of the single- and twin-engine propeller type. A substantial percentage of the flight operations consists of touch-and-go training flights in single-engine light aircraft. This type of aircraft usually generates relatively low noise levels. The corporate executives who use the Airpark use larger single-engine and small twin-engine aircraft, which provide corporate personnel transportation to and from other airports in the mid-Atlantic states. In 1980 there were approximately 131,000 operations (landings and takeoffs), making this Airpark the second busiest general aviation facility in the Washington metropolitan area.

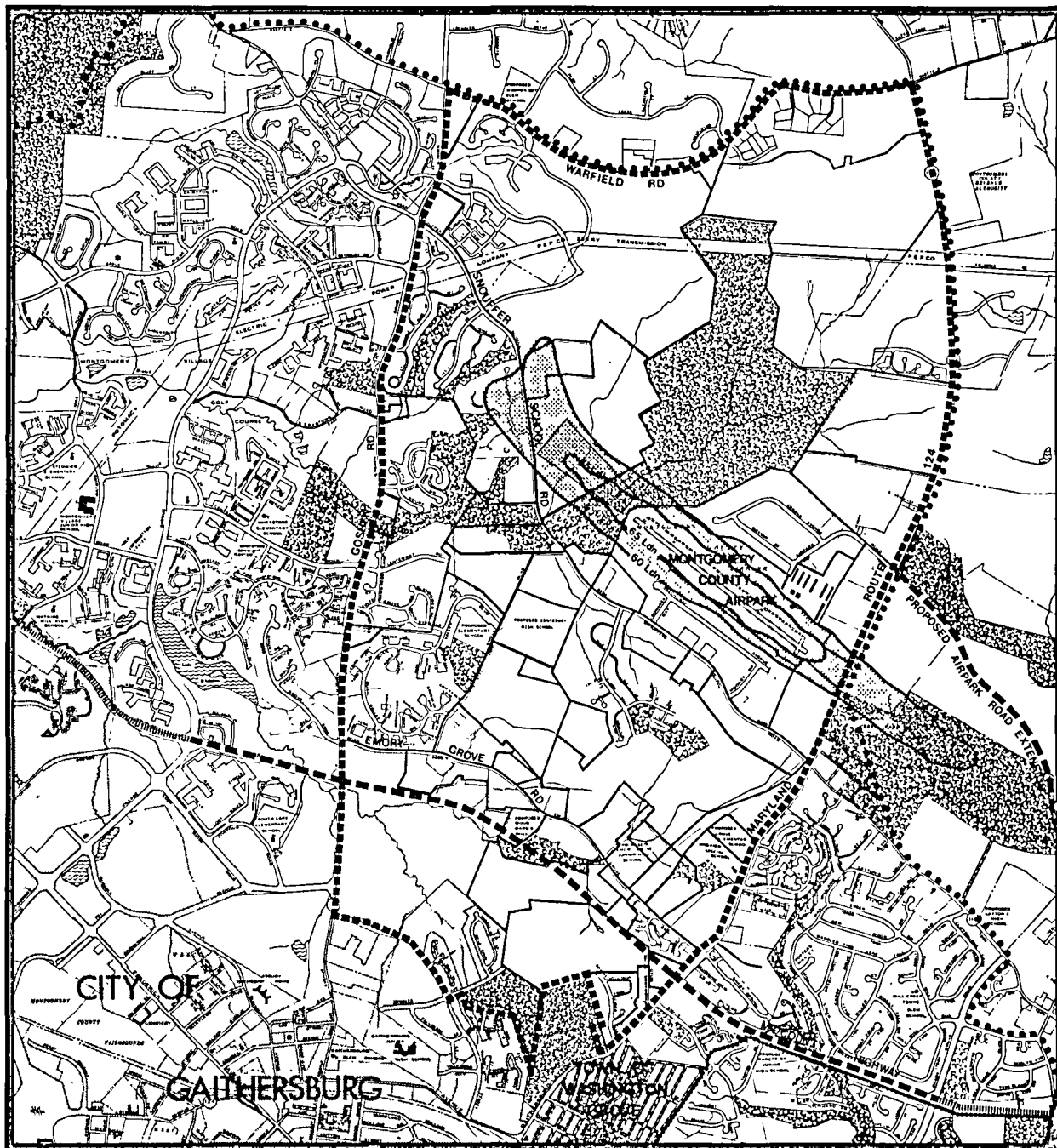
The Airpark's runway is oriented northwest to southeast. (See figure 11.) The preferred takeoff is to the southeast (Runway 14) when the wind is from the east or south, or when there is no significant wind blowing. Runway 32 is used when the wind is from the west or north. The prevailing wind conditions around the Airpark dictate use of Runway 32 for approximately 60 percent of the takeoffs, and Runway 14 for the remaining 40 percent.

Established flight paths in the vicinity of the Montgomery County Airpark are based on a racetrack pattern with the backstretch, or downwind leg, paralleling the runway to the northeast. Incoming flights enter the pattern at the far turns of the racetrack pattern. (See figures 12, 13.) Pilots taking off toward the northwest usually make a tight, 20-degree right turn over Snouffer School Road in order to avoid overflight of the existing residential area. This atypical flight path, known as the "Gibson turn," was established as residential development began to appear around the airport.

Saturday is generally the busiest day of the week at the Airpark. The busiest days of the year are usually Saturdays in May, June, and July, since there are more hours of daylight during these months.

The operation of an airpark raises many planning concerns, in particular noise and safety impacts on surrounding land uses. Detailed studies concerning both issues are included in the Technical Appendix. The conclusions of these studies are as follows:

- Noise and safety impacts, although important, are not severe enough to justify relocating or terminating the Airpark's operation;



## NOISE CONTOURS-YEAR 2000

..... Planning Area Boundary

Below 60 Ldn

Municipalities

Equal To Or Greater Than 65dBA Ldn

60-64 Ldn

SOURCE: Preliminary Data By State Aviation Administration

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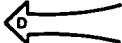
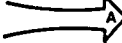
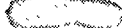


**Fig. 11**





## MONTGOMERY COUNTY AIRPARK AIRCRAFT FLIGHT OPERATIONS-NORTH OPERATIONS\*

-  North Departures (Takeoff)
-  North Approach (Landing)
-  Approximate Overflight Area While In Flight Pattern

\*Runway #32

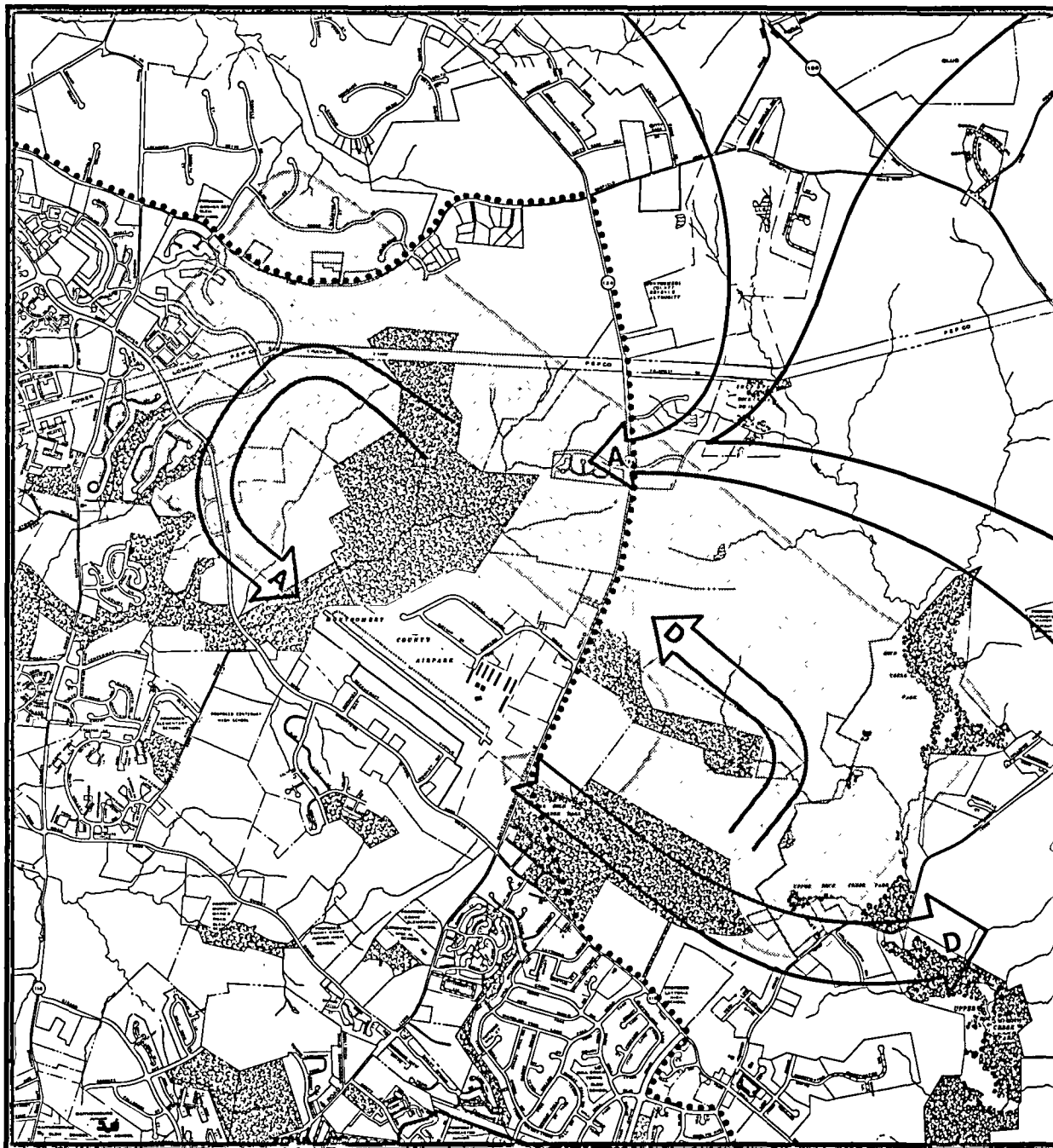
\*Flight Pattern Altitude is Approximately 600' Above Ground Elevation

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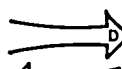
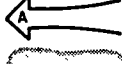
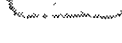
January, 1985



Fig. 12



## MONTGOMERY COUNTY AIRPARK AIRCRAFT FLIGHT OPERATIONS-SOUTH OPERATIONS\*

-  South Departures (Takeoff)
-  South Approach (Landing)
-  Approximate Overflight Area While in Flight Pattern
- \*Runway #14
- \*Flight Pattern Altitude is Approximately 600' Above Ground Elevation

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**Fig. 13**

- Land use proposals in the Airpark vicinity should locate non-residential uses in noise-impacted areas; and
- While the likelihood of planes crashing into homes is extremely remote, residential development in the vicinity of the Airpark should, if possible, provide contiguous open space for possible emergency landings.

This Plan supports the designation of an Airpark Noise Zone by the State Aviation Administration (SAA) and the Montgomery County Revenue Authority. This Noise Zone will include any area of land surrounding the airport within which the cumulative noise exposure level will be equal to or greater than the standard set for cumulative noise exposure (65 dBA Ldn for residential uses). The SAA will adopt the Noise Zone following public hearings and local government review. It will include a Noise Abatement Plan to ensure, insofar as possible, that the projected noise contours will be reduced to levels compatible with existing and planned land uses in the vicinity. This Noise Abatement Plan will use the land use and zoning recommendations of this Plan as the basis for developing its guidelines.

Listed below are examples of the general types of noise abatement actions which the Revenue Authority might review and analyze for possible inclusion in the Noise Abatement Plan.

- Increase pattern altitude.
- Modify runway and flight path use.
- Restrict noisy maintenance operations.
- Relocate runways or certain types of operations.
- Acquire property when other noise abatement measures are not possible.

To assure that noise problems are promptly identified and addressed, the Revenue Authority should consider the following programs:

- noise complaint hot line;
- noise monitoring;
- full-time noise abatement staff; and
- airport operations advisory committee with both user and community representation.

This Plan has channeled non-residential uses to properties lying within the 60 Ldn noise contours. A new zoning category, the I-4 Zone, was developed to address the problems related to industrial land use in this part of the Study Area.

This Plan recommends against any future extension of the runway because of the potential impact on future land use and on existing residential development. This recommendation is not intended to inhibit the Airpark's operational expansion, however, and relates only to physical expansion. In evaluating any proposals for facility or operational modifications that might emerge from the SAA study regarding the establishment of an Airport Noise Zone, it will be necessary to determine their potential consequences--as well as their intent--in terms of safety, noise, and operational capacity. Therefore, no physical improvements or changes should be made to the Airpark pending the completion of the SAA study.

A Task Force has been established by the County Council to assess the importance (or necessity) of having an airpark located in Montgomery County and, if an airpark is deemed important, to evaluate its current location and either

develop recommendations for strengthening support for its current location or recommend alternative locations. The land use pattern proposed by this Plan should be re-examined in light of the findings of the Task Force.

#### Relationship of Airpark to Rock Creek Planning Area

Recent SAA studies show projected noise for the year 2000 to be at levels (less than 60 dBA Ldn) which would be acceptable for residential development for all but a small portion of the Rock Creek Planning Area. This Plan reflects these noise projections.

This Plan supports light industrial land use in accord with the Low-Intensity, Light Industrial (I-4) Zone for 72 acres in the Rock Creek Planning Area that is partially affected by Airpark noise. A buffer between industrial and future residential uses will be provided through the requirements of the I-4 Zone. The permitted building and parking coverage on this parcel may be further constrained as a result of additional environmental analyses. The Rock Creek Master Plan recommends a water/sewer policy for the I-4 area and discusses land uses in this area in more detail.

The Transportation Plan recommends that a new arterial roadway, Airpark Road Extended (A-268), be built through the Rock Creek Planning Area. The proposed road would extend from the existing Airpark Road parallel to Muncaster Mill Road from MD 124 to proposed Shady Grove Road Extended. (See the Transportation Plan Chapter for additional information.) Without this roadway, Muncaster Mill Road between MD 124 and Shady Grove Road would operate at an unacceptable level of service given the projected traffic volumes generated by the full development of the Gaithersburg area as envisioned by this Plan.

The impact of this road on surrounding land use has been studied as part of the Rock Creek Master Plan Amendment process.

#### LAND USE AND ZONING RECOMMENDATIONS BY DISTRICT

The Land Use Plan for the Airpark Study Area is shown in figure 14; the Recommended Generalized Base Zoning is shown in figure 15.

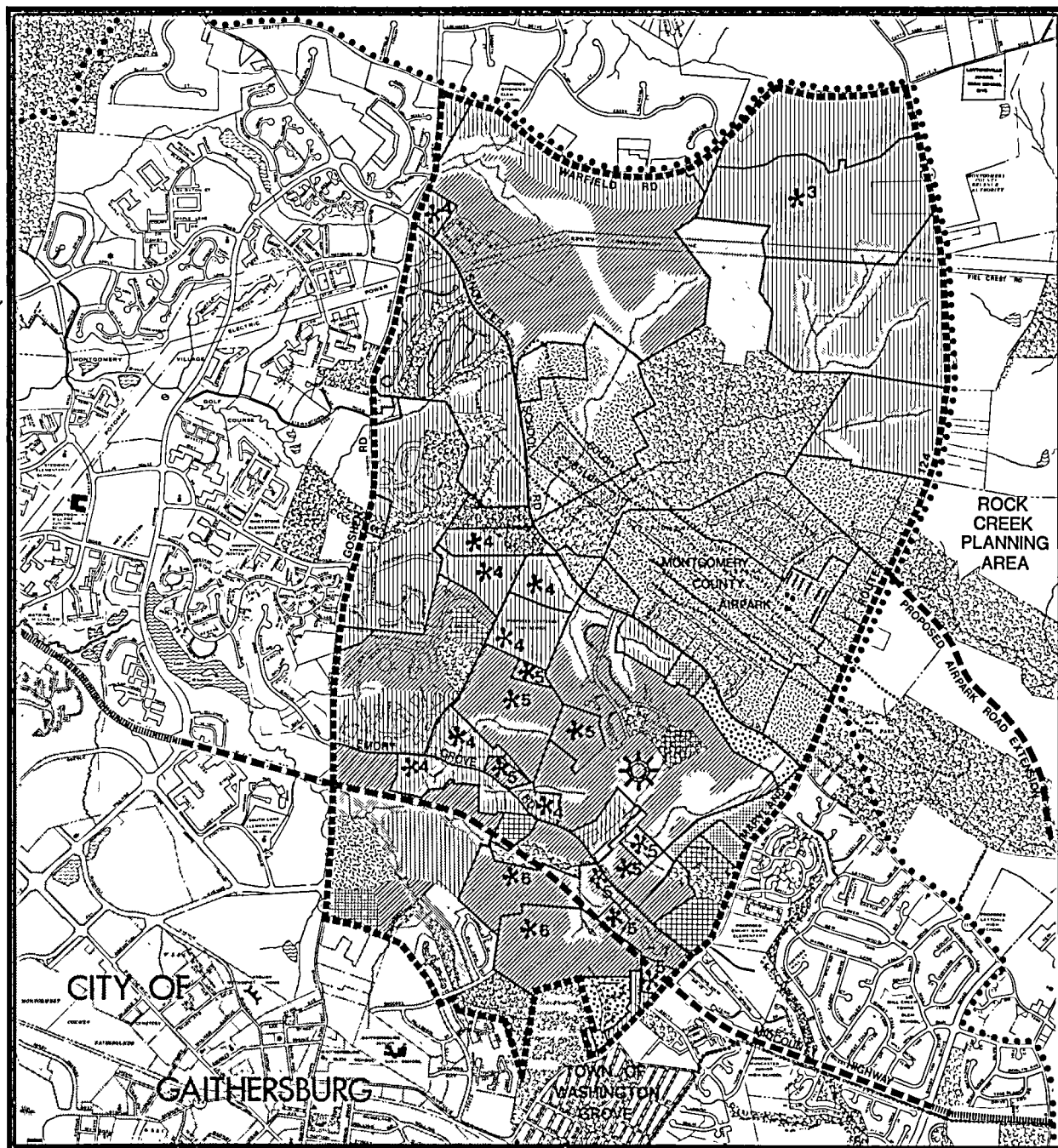
Like the Shady Grove West Study Area, the Airpark Study Area is so large that it must be divided into districts for purposes of planning analysis. These analysis districts are as follows:

- Midcounty Highway District
- Flower Hill District
- Airpark District

The boundaries of these districts are shown on the Airpark Area Analysis Areas map (figure 16). Table 3 is a zoning summary by analysis area.

#### Midcounty Highway District

The Midcounty Highway District includes Analysis Areas 1 through 13. These properties, all lying south of Emory Grove Road, will be affected by their proximity to the proposed Midcounty Highway. The design of this and other highways planned for this area should consider the need for noise abatement and protection of stream valleys.



## AIRPARK AREA-RECOMMENDED LAND USE

..... Planning Area Boundary

----- Study Area Boundary

☼ Planned Neighborhood  
(Flower Hill)

\*5 TDR Density

□ Municipalities

Single-Family Residential

▨ Suburban 2-4 Units/Acre

▨ Medium-Density 5-6 Units/Acre

▨ Multi-Family

▨ Commercial (Retail & Office)

▨ Industrial Park

▨ Private Open Space

▨ Institutional

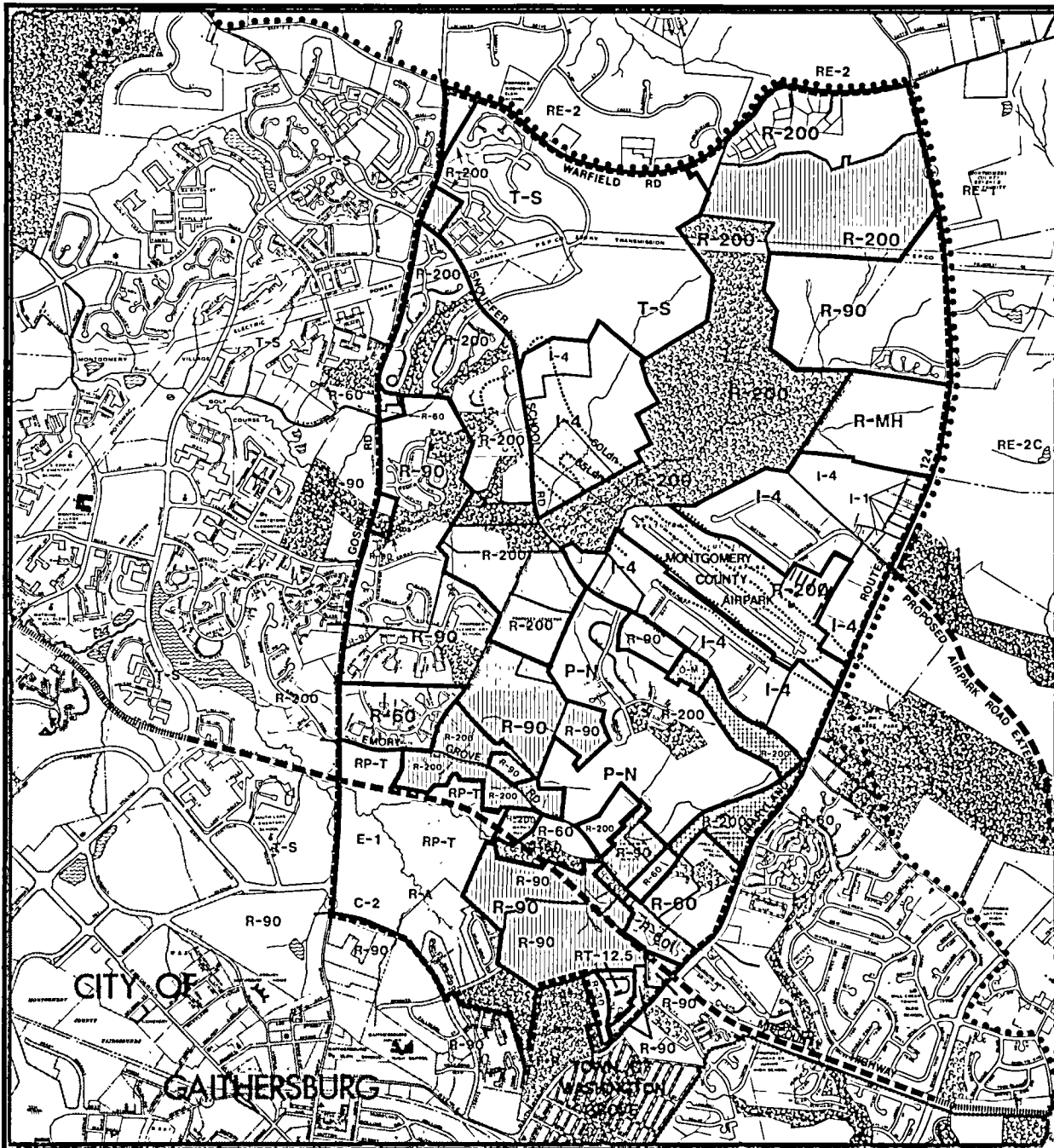
▨ Parks

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NORTH

**Fig. 14**



## AIRPARK AREA-RECOMMENDED GENERALIZED BASE ZONING

- ..... Planning Area Boundary
- Study Area Boundary
- ..... Projected Noise Contours
- Municipalities



Parks



Properties Recommended For PN Zone



Proposed TDR Receiving Areas

NOTE: See Fold Out Map For Details

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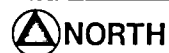
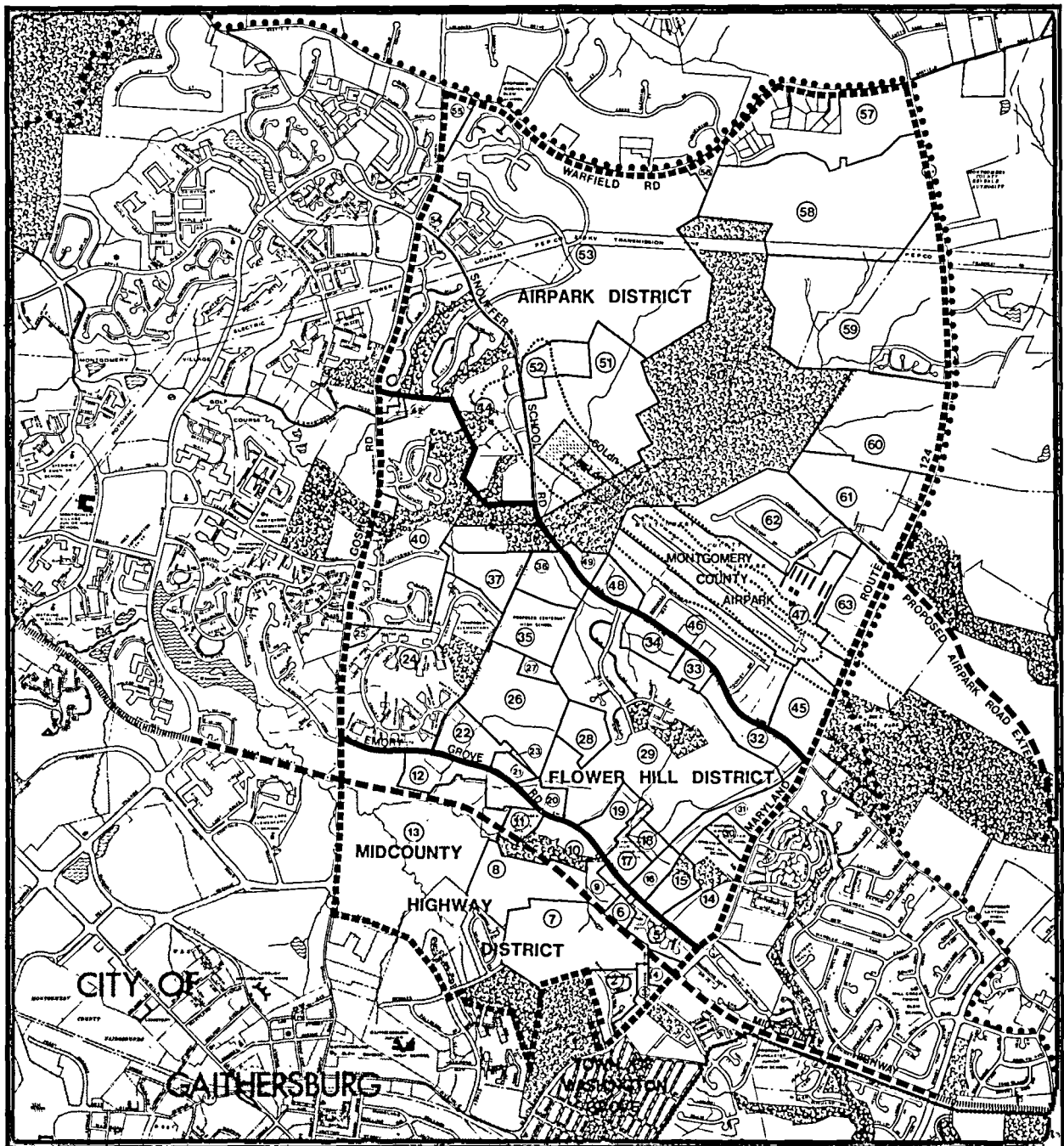


Fig. 15



## AIRPARK AREA-ANALYSIS AREAS

..... Planning Area Boundary

----- Study Area Boundary

----- Proposed Highway

----- Projected Noise Contours

----- Municipalities

 Parks

Midcounty Highway District: 1-13

Flower Hill District: 14-43

Airpark District: 44-63

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 NORTH

**Fig. 16**

TABLE 3  
AIRPARK ANALYSIS AREAS  
SUMMARY OF ZONING RECOMMENDATIONS

1	2	3	4	5	6
Analysis Area Number	Acreage	Existing Development	Recommended Zoning Base/Optional	Potential Units Recommended <sup>1</sup> Base/Optional <sup>1</sup>	Net TDR's Over Base Density
MIDCOUNTY HIGHWAY DISTRICT					
1	1	1 single family	R-200	2/2	0
2	21	171 townhouses 60 garden apts.	R-30 & RT-12.5	231/231	0
3	9	17 single family church	R-90	32/32	0
4	8	vacant	R-90/TDR-5	28/40	12
5	16	vacant	R-60	80/80	0
6	5	vacant	R-90/TDR-5	18/25	7
7	80	vacant	R-90/TDR-6 <sup>2</sup>	288/480	192
8	54	vacant	R-90/TDR-6	194/324	130
9	3	1 single family	R-200/TDR-5 <sup>3</sup>	6/15	9
10	25	100 single family	R-60	100/100	0
11	10	vacant school site	R-200	20/20	0
12	27	12 single family	R-200/TDR-4	97/108	11
13	(city of Gaithersburg not included in calculations)				
TOTALS	259			1096/1457	361
FLOWER HILL DISTRICT					
14	42	Upper County Community Center, Longview Special School, parkland	R-60	0	0
15	27	vacant	R-60	135/135	0
16	10	vacant; Flower Hill	R-60	50/50	0
17 & 18	23	vacant; Flower Hill	R-90/TDR-5	83/115	32
19	17	13 single family	R-200	34/34	0
20	8	6 single family	R-200/TDR-4	16/32	16

<sup>1</sup> Densities indicated are the maximum permissible, without the bonus for providing Moderately Priced Dwelling Units (MPDU's). Any subdivision of 50 or more units must include 12.5% MPDU's, in which case a density increase of up to 20% and optional development standards and unit types are permitted. Densities do not reflect cluster densities.

<sup>2</sup> The Plan recommends single family detached units at 4 units per acre near the town of Washington Grove's Forest Preserve.

<sup>3</sup> If developed in combination with other property, the Plan recommends TDR-5.



TABLE 3 (Cont'd.)

1	2	3	4	5	6
Analysis Area Number	Acreage	Existing Development	Recommended Zoning Base/Optional	Potential Units Recommended Base/Optional	Net TDR's Over Base Density
FLOWER HILL DISTRICT (Cont'd.)					
21	7	vacant	R-90/TDR-5	25/35	10
22	19	8 single family	R-200/TDR-4	38/76	38
23	1	vacant	R-90	4/4	0
24	141	501 townhouses 91 single family	R-90 & R-60	592/592	0
25	5	1 single family	R-90	18/18	0
26	67	175 townhouses	R-90/TDR-5	289/335	46
27	5	1 single family	<del>R-200</del> R-90/TDR-5	18/25	7
28	<i>Nike Missile Local Park</i> 18	vacant	R-90/TDR-5	65/90	25
29	250	39 townhouses 218 single family	P-N	1302/1302	0
30 & 31	37	vacant	R-200/P-N <sup>4</sup>	N/A	0
32	32	vacant	R-200/P-N	64/337 <sup>5</sup>	0
33	9	3 single family	O-M	N/A	0
34	17	54 townhouses 23 single family	R-90	77/77	0
35	32	vacant school site	R-200/TDR-4	64/128	64
36	20	vacant	R-200/TDR-4	40/80	40
37	28	54 single family	R-200/TDR-4	56/112	56
38	22	24 townhouses 27 single family	R-200/TDR-4	51/88	37
39	14	1 single family	R-200	28/28	0
40	157	328 townhouses 204 single family	R-90	532/532	0
41	7	1 single family	R-90 <sup>6</sup>	25/25	0
42	4	vacant	R-60 <sup>6</sup>	20/20	0
43	3	2 single family 1 church	R-60 <sup>6</sup>	15/15	0
TOTALS	1,022			3641/4285	371

<sup>4</sup> This acreage proposed for office and retail.

<sup>5</sup> 114 townhouses, 223 garden apartments proposed by developer.

<sup>6</sup> Clustering of development encouraged.

TABLE 3 (Cont'd.)

1	2	3	4	5	6
Analysis Area Number	Acreage	Existing Development	Recommended Zoning Base/Optional	Potential Units Recommended Base/Optional	Net TDR's Over Base Density
AIRPARK DISTRICT					
44	183	107 townhouses 324 single family	R-200	431/431	0
45	33	vacant	I-4	N/A	0
46	98	light industrial uses	I-4	N/A	0
47	131	Montgomery County Airpark	R-200	N/A	0
48	13	2 single family	I-4	N/A	0
49	8	2 single family	I-4	N/A	0
50	323	parkland	R-200	N/A	0
51	134	vacant	I-4	N/A	0
52	16	vacant	I-4	N/A	0
53	392	212 townhouses 2 single family	T-S	1736/1736	0
54	10	vacant	R-200/TDR-4	20/40	20
55	9	4 single family	R-200	18/18	0
56	6	4 single family	R-200	12/12	0
57	22	1 single family	R-200	44/44	0
58	179	1 single family	R-200/TDR-3	358/537	179
59	185	1 single family	R-90 <sup>6</sup>	666/666	0
60	89	349 single family lots	R-MH	349/349	0
61	67	vacant and light industrial uses	I-1, I-4 <sup>7</sup>	N/A	0
62	85	light industrial uses	I-1, I-4 <sup>7</sup>	N/A	0
63	40	light industrial uses	I-4 <sup>7</sup>	N/A	0
TOTALS	2,023			3634/3833	199
OVERALL TOTALS	3,304			8371/9525	931

<sup>6</sup> Clustering of development encouraged.

<sup>7</sup> See text for discussion of I-4 Zone.

3.6 for cluster

R-90

5 x 3.6 = 18

5 x 3 = 15

Another characteristic of this area is its proximity to the city of Gaithersburg and the town of Washington Grove. The Plan reflects these borders by recommending appropriate residential densities near existing or planned developments and recommending buffering when necessary.

This district has good planned or existing access to Metro, employment, and shopping areas. This access supports the Plan's recommendations for higher density on suitable vacant properties.

The presence of floodplains, streams, erodible soils, and steep slopes in parts of this district indicate that development should be clustered away from these features.

### Flower Hill District

The Flower Hill District includes Analysis Areas 14 through 43 and includes most of the land between Emory Grove Road and Snouffer School Road. The Hunt Cliff and Quail Valley residential areas are located in the western section, and the Flower Hill Planned Neighborhood, now under development, is located to the east.

The Flower Hill Planned Neighborhood is a significant land use in the Airpark Study Area. The Planned Neighborhood (P-N) Zone was originally granted to this area in 1969. The P-N Zone area today is 266 acres and is planned for approximately 1,300 dwelling units. (See Analysis Area 29.) The developer of the planned neighborhood also owns several other adjoining parcels and would like to combine these areas with the Flower Hill development to form a unified community. The Flower Hill community, when completed, will be oriented to a centrally-located, 24-acre park/school proposed in the development plan for this site.

This Plan recommends the addition of 60 acres to the Flower Hill Planned Neighborhood. One parcel (Area 32) is recommended to encourage the development of garden apartments in accord with the provisions of the Flower Hill P-N Zone. Two other parcels (Areas 30 and 31) which are recommended for inclusion in the Flower Hill P-N are recommended for commercial and office development. The P-N Zone provides site plan review which will allow the Planning Board to influence the arrangement of buildings, landscaping, lighting, and parking configuration.

Parcels 16, 17, and 18 are not recommended to be included as part of the P-N Zone due to their orientation to existing non-P-N development. If the development of Areas 17 and 18 is coordinated with the development of the Flower Hill community, residents may be able to use Flower Hill's recreation facilities.

### Airpark District

The Airpark District includes Analysis Areas 44 through 63. This is the area most seriously affected by overflights of aircraft using the Montgomery County Airpark. A new zoning category was created to guide development of industrial parcels in this area, the I-4 Zone. The Hunter's Woods subdivision is located here, and several other large residential subdivisions are developing in this area. Another significant land use is the Green Farm Conservation Park.

## SMOKEY GLEN STUDY AREA

The Smokey Glen Study Area is located in the southwest quadrant of the Gaithersburg Vicinity Planning Area north of MD 28, near Seneca Creek State Park. Zoning recommendations for this area are shown in figure 17.

This Plan confirms the R-200 and C-1 Zones on two parcels fronting MD 28. The character of these parcels, 163 acres and 12 acres respectively, has already been determined by existing or proposed development. The Plan recommends additional C-1 zoning (6,300 square feet) for the parcel fronting MD 28 near Quince Orchard Road, adjacent to Suburban Trust Drive-In Bank. This would provide for improved traffic circulation and parking for the bank.

This Plan confirms residential land use for two other areas but recommends a lower density (one home per 2 acres) to reflect environmental concerns and to respect environmentally sensitive areas. (See figure 18.)

One area is located west of Longdraft Road near Marmary Road. It is characterized by an established neighborhood of single-family homes on wooded lots. The residential lots range in size from one-half to three acres. There are several unbuilt parcels. The recommended alignment of the proposed Great Seneca Highway passes along the southwest edge of this area.

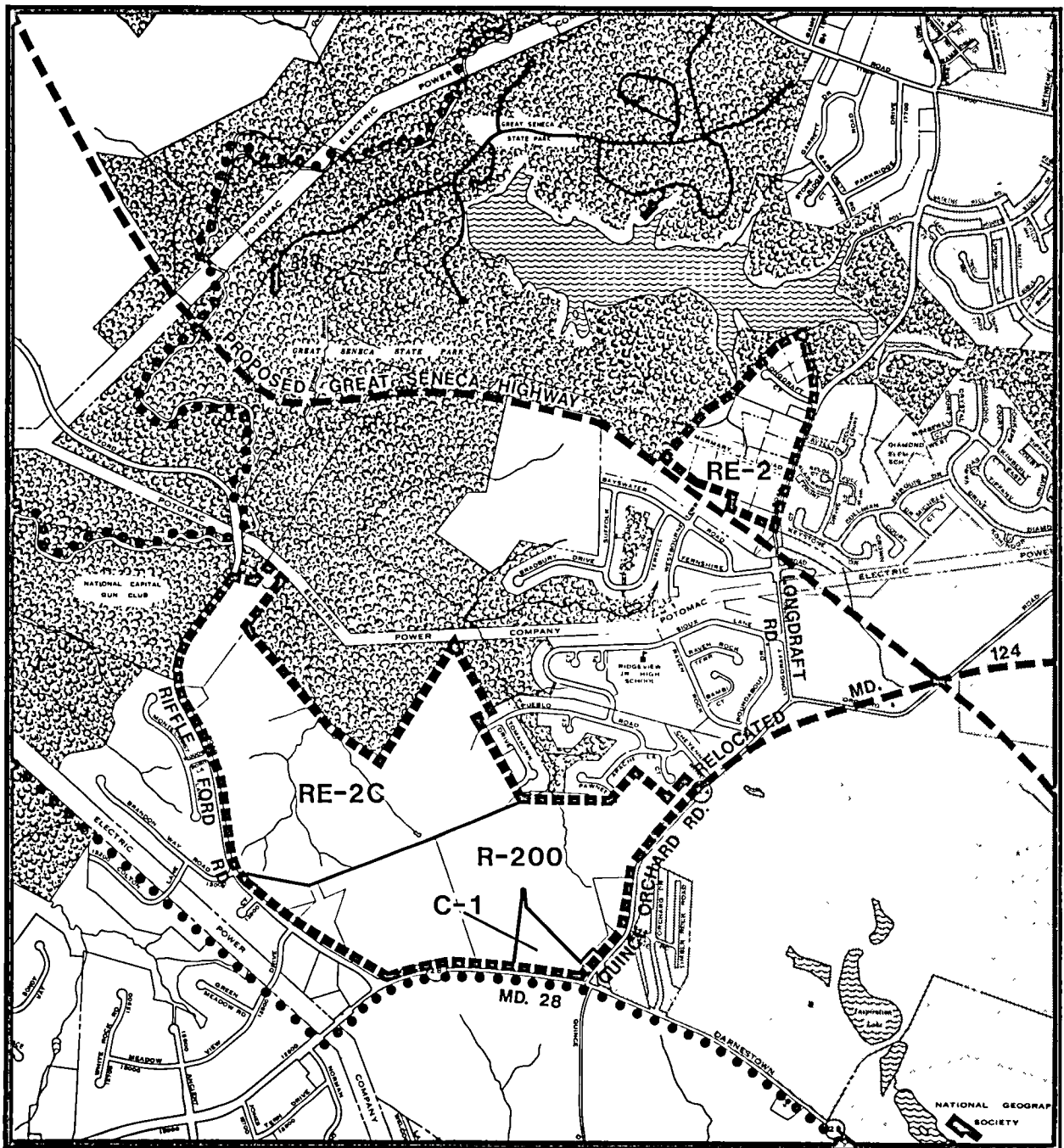
The Plan recommends two-acre lots and changing the zoning from R-200 to RE-2. Development under the cluster provisions of the RE-2C Zone would be preferable, but does not appear to be feasible due to current ownership patterns. Mature trees should be protected wherever possible to maintain the natural beauty of the area and to provide protection against erosion, siltation, and reduction of water quality. Presently, this area is served by individual septic systems. It has potential for a separate community sewer system.

The second area proposed for lowered density is located northeast of Riffle Ford Road and adjacent to Seneca Creek State Park. It contains the Smokey Glen Farm and generally vacant land interspersed with scattered single-family homes. Since 1958, Smokey Glen Farm has functioned as a private recreation area, providing outdoor parties for large groups. This area contains a significant amount of environmentally sensitive land with floodplains, steep slopes, and erodible soils. Several tributaries of Great Seneca Creek are located in this area.

The Plan recommends reducing the permitted density to one unit per two acres under the RE-2C Zone. Clustering is strongly encouraged to protect the environmentally sensitive areas. The western portion of this area probably could be served by a gravity sewer line parallel to the existing force main easement.

The Plan recommends development guidelines for the environmentally sensitive areas to help assure the compatibility of the development to surrounding uses. These guidelines should include, but not necessarily be limited to, the following:

- Stormwater management issues will be addressed at time of subdivision proposal;
- Mature wooded areas should be protected, wherever possible. Natural vegetation should remain along all streams;



## SMOKEY GLEN AREA ZONING PLAN

..... Planning Area Boundary

□ Municipalities

■■■■■ Study Area Boundary

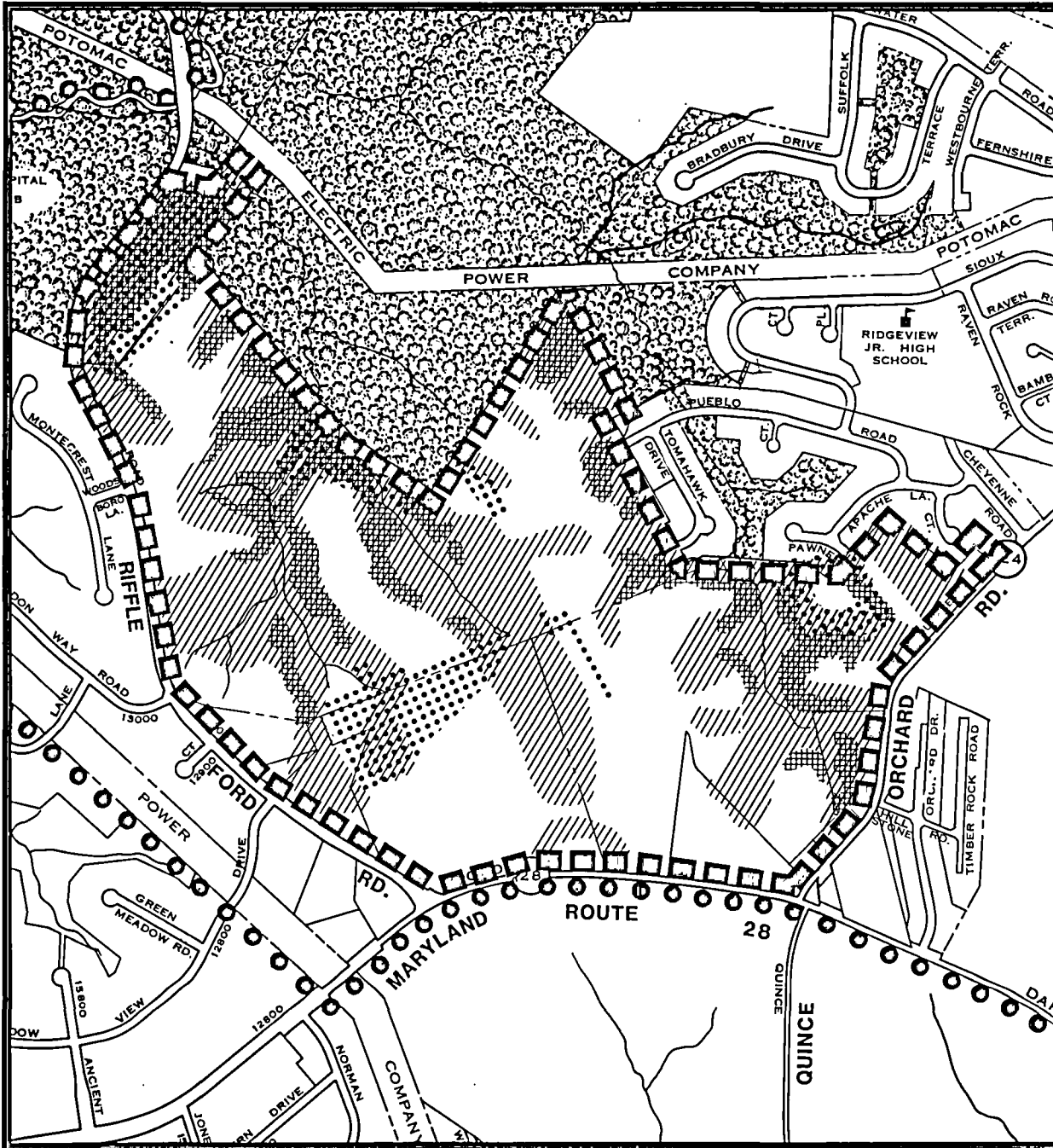
--- Proposed Highway

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Fig. 17



## SMOKEY GLEN AREA- ENVIRONMENTALLY SENSITIVE AREAS

- Analysis Area Boundary
- ~~~~~ Stream
- ..... Wooded Areas
- ////// Soils (erodible & alluvial)
- XXXXXX Steep Slopes
- ..... Planning Area Boundary

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Fig. 18

- Development should be clustered away from streams, steep slopes, severely erodible soils, poorly drained soils, floodplains, and other environmentally sensitive areas;
- Development should be setback or otherwise buffered to prevent traffic noise impacts from MD 28 and Quince Orchard Road; and
- Detached homes should be located adjacent to existing detached homes.

## LAND USE AND ZONING RECOMMENDATIONS FOR OTHER AREAS

### Oakmont Community

Oakmont is a community located to the southwest of the town of Washington Grove. Oakmont is somewhat unique in the Gaithersburg Vicinity Planning Area because many of the homes are relatively old and are situated on large lots. The Oakmont Special Study Plan, which is available separately, was adopted in 1982; the approved and adopted Land Use Plan for Oakmont is shown in figure 19.

### Non-Contiguous Parcels

Several properties outside the study areas are proposed for re-zoning. These properties are discussed in tabular form and are shown in Figure 20.

Because of its size (74 acres), the Washingtonian Industrial Park property merits a separate discussion. The Washingtonian Industrial Park area is "L" shaped and situated on both sides of the proposed alignment of I-370, east of I-270. (See figure 20.) It is bounded on the northwest and northeast sides by a stream valley which separates it from the Summit Hall and Rosemont communities. Part of the stream lies in the city of Gaithersburg's municipal park.

The only access to this parcel is from the south along Industrial Drive. The configuration of homes to the north of this property precludes access from that direction. The alignment for I-370 bisects the property,

The Plan recommends light industrial uses (I-4 Zone) for the majority of vacant land south and north of I-370. A band of R-200 zoning is retained on land adjoining existing residential development.

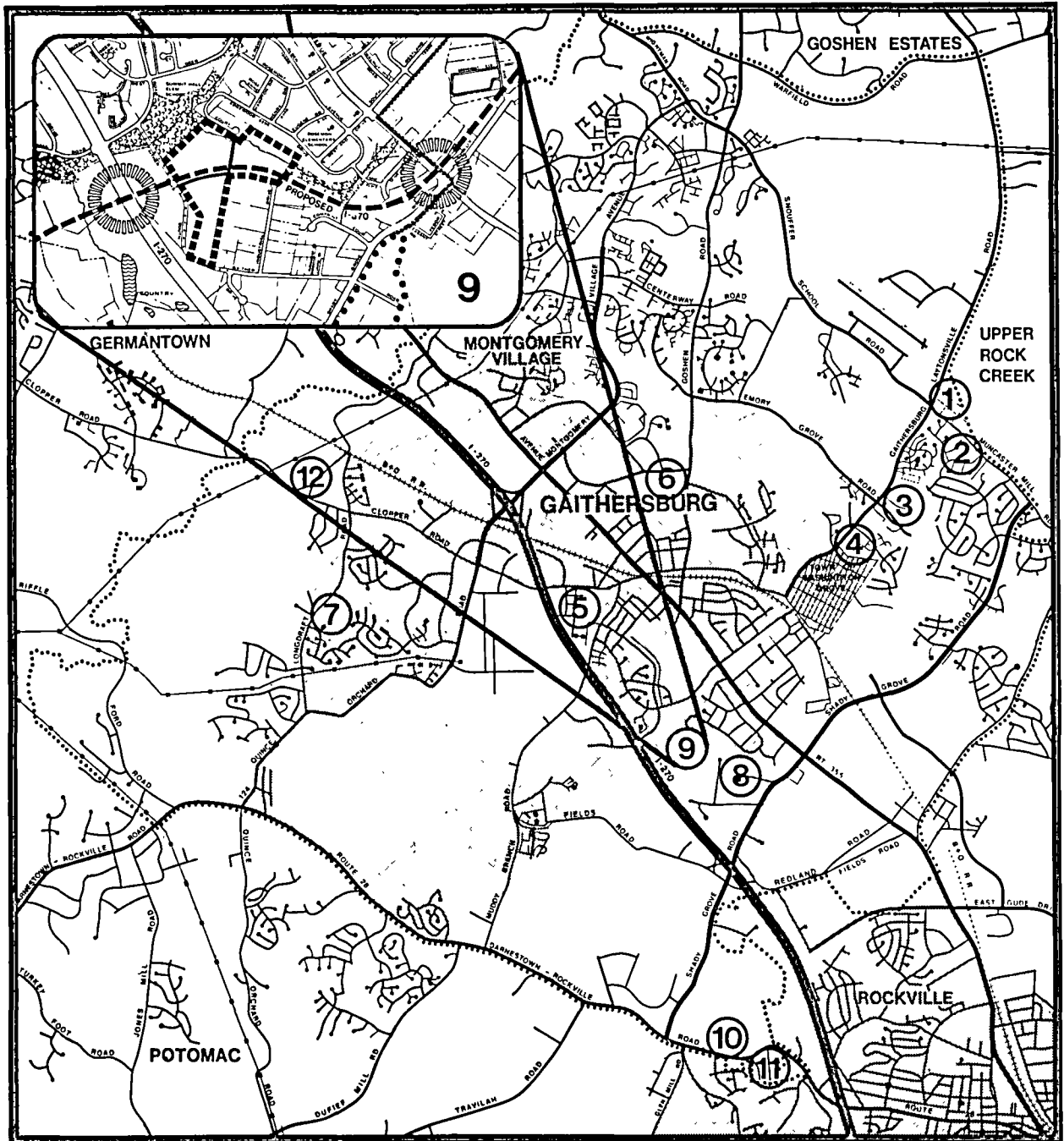
Other commercial/industrial zones which require site plan review (thereby allowing the Planning Board to review development plans for compatibility with adjoining residential development) would be appropriate here. These zones include O-M (moderate intensity office) and I-3 (industrial park). The staging chapter links rezoning to O-M or I-3 to the construction of certain roads.

## STAGING RECOMMENDATIONS FOR THE MD 28 CORRIDOR

A major concern throughout the Plan process has been traffic congestion along MD 28. MD 28 is currently overcapacity and congested during rush hours. Although road improvements are programmed to provide more highway capacity, residents and various governmental jurisdictions fear that unless future development is staged very closely to highway availability, MD 28 will continue to experience unacceptable levels of service.

## Fig. 19





## NON-CONTIGUOUS PARCELS

..... Planning Area Boundary



Municipalities

1-12 These Parcels Will Be Included in Sectional Map Amendment

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**Fig. 20**

TABLE 4

NON-CONTIGUOUS ANALYSIS AREAS  
SUMMARY OF ZONING RECOMMENDATIONS

Analysis Area Number	Acreage	Recommended Zone	Comments
1	29	R-90 and C-4	Existing single-family residences and restaurant/gas station located north of Muncaster Mill Road. R-90 Zone recommended for compatibility with R-90 development planned for opposite side of Muncaster Mill Road, and with area recommended for P-N Zone along Snouffer School Road and MD 124. Separated from low-density areas of Upper Rock Creek Planning Area by parkland. Approximately 3 acres at this intersection recommended for C-4 zoning by this Plan. This location is already in use as a non-conforming commercial use under the R-200 Zone; rezoning to C-4 would allow the existing restaurant to continue in operation. Any redevelopment or additional commercial development at this location should be oriented towards MD 124 rather than Muncaster Mill Road. Access from the site onto Muncaster Mill Road should be located as far away from the intersection as possible.
2	2	R-60	Eight lots, one house, located south of Muncaster Mill Road. Emory Grove subdivision and townhouses in Laytonia community adjoin the property.
3	37	R-60/TDR-6 and C-1	<p>Vacant surplus school site (14 acres) and adjacent 17-acre parcel (one single-family dwelling), located east of MD 124 directly across from the Up-County Community Center Swimming Pool complex. The Plan supports a small pedestrian scale shopping area at the surplus school site, if feasible, given the site's rough topography. The site is within walking distance of the Emory Grove community which has identified the need for a local shopping center since 1968. The community has submitted a Community Development Block Grant application to the County to develop approximately two acres of commercial use on the site. The exact amount of commercial zoning will be determined at the time of Sectional Map Amendment.</p> <p>The Plan confirms the 1971 Master Plan for medium-density residential uses for 12 acres of the surplus school site and the adjacent 17 acre parcel. The Plan designates the surplus school site as a TDR receiving area, suitable for a density up to 6 units per acre.</p>
4	2	R-60/RT-6	<p>This property is located west of MD 124 near Towne Crest Drive and immediately north of the Town of Washington Grove. The Town of Washington Grove is characterized by detached houses on a variety of lot sizes. Washington Square townhouses and apartments adjoin the property on the north. Existing and planned land uses in the area are predominantly townhouses and garden apartments, interspersed with single-family detached homes.</p> <p>Townhouses are appropriate for the site, but the density should be low enough to be compatible with nearby detached residences. The Plan recommends R-60 with an RT-6 option. Clustering away from the Town of Washington Grove's forest preserve is encouraged.</p>
5	11	R-20	This area is located south of Diamond Avenue between Londonderry apartments and I-270. It is within the Maximum Expansion Limits of the city of Gaithersburg and part of a large enclave. Higher density is more compatible with surrounding uses and zoning.

TABLE 4 (Cont'd.)

Analysis Area Number	Acreage	Recommended Zone	Comments
6	93	R-90	The Plan confirms the 1971 Master Plan recommendation of medium-density residential uses for the Asbury Methodist Home property.
7	10	R-90	Vacant area located east of Longdraft Road near Seneca State Park. Surrounded by medium-density residential development in the city of Gaithersburg. Higher density is consistent with existing development pattern.
8	2	I-1	Vacant, irregularly-shaped area located near cul-de-sac on Industrial Drive. Made up of portions of several other parcels. Surrounded by land recommended for industrial development and parkland in the city of Gaithersburg.
9	72	I-4/I-3 or O-M	See text for discussion.
10	5	R-90	Vacant property located south of MD 28 adjacent to city of Rockville. Higher density is consistent with existing development pattern.
11	39	R-90	This area is located south of MD 28 and west of city of Rockville National Capitol Research Park. It consists of several homes and an 11-acre vacant tract. A mixture of single-family detached homes, institutional uses, and office/industrial uses are located in the area. The 11-acre vacant tract was once the subject of annexation and a rezoning request to the city of Rockville's office building zone. The Planning Board reviewed the proposed zoning and supported the applicant's request for limited office development. The Planning Board recommended that strict controls be placed on the developer to reduce the impact of the office development on the nearby residential properties. Limited office development would provide a compatible transition between the office/industrial uses to the north and residential uses to the south.
12	35	R-90/ TDR-5	<p>The area is bounded to the east by Long Draught Road, to the west by Game Preserve Road, and to the south by Clopper Road. It is largely vacant except for the St. Rose of Lima Church, rectory, and several houses along Game Preserve Road. Bennington, a townhouse community developed at 9 units per acre, adjoins the area to the east; Seneca State parkland is located to the west.</p> <p>A mix of housing types (detached and attached) is highly desirable at this location because the property forms a transition between townhouses to the east and parkland to the west. Game Preserve Road is already developed with detached units and this low density, single-family detached character should continue. At the same time, higher density townhouses along Long Draught Road would be compatible given the presence of the Bennington townhouse community.</p> <p>To better achieve a mix of unit types, the Plan recommends the zoning be changed from R-200 to R-90 Zone. (A 2.6-acre parcel at the corner of Long Draught Road and Clopper Road is already zoned R-90 and recorded in single-family detached lots.) The Plan designates the site as a TDR receiving area, suitable for a density up to 5 units per acre.</p>

The staging recommendations included in this chapter address this concern.

The primary geographic focus of the staging recommendations is the Shady Grove West area. Staging development in the Shady Grove West area alone, however, will not address the issue of traffic congestion along MD 28. To be meaningful, a staging program must include all undeveloped, unrecorded properties which will ultimately generate traffic in the vicinity of MD 28. For these reasons, a MD 28 Corridor Area has been defined for purposes of staging. (See figure 21.)

To be meaningful, a staging program for the MD 28 Corridor must also examine through-trips from Germantown and other areas which use traffic capacity in this portion of the MD 28 Corridor. This Plan's staging recommendations reflect through-trips from adjoining planning areas because they are based upon a County-wide traffic model.

Many of the properties in the MD 28 Corridor are now located in Gaithersburg or Rockville or are planned to be annexed by them in the future. As part of this Master Plan process, both municipalities have agreed that these properties should be staged. This is extremely important because neither municipality has staging provisions in their plans or their subdivision regulations. Staging guidelines for key parcels in the Rockville and Gaithersburg portions of the MD 28 Corridor are included in this chapter.

#### What Staging will Accomplish

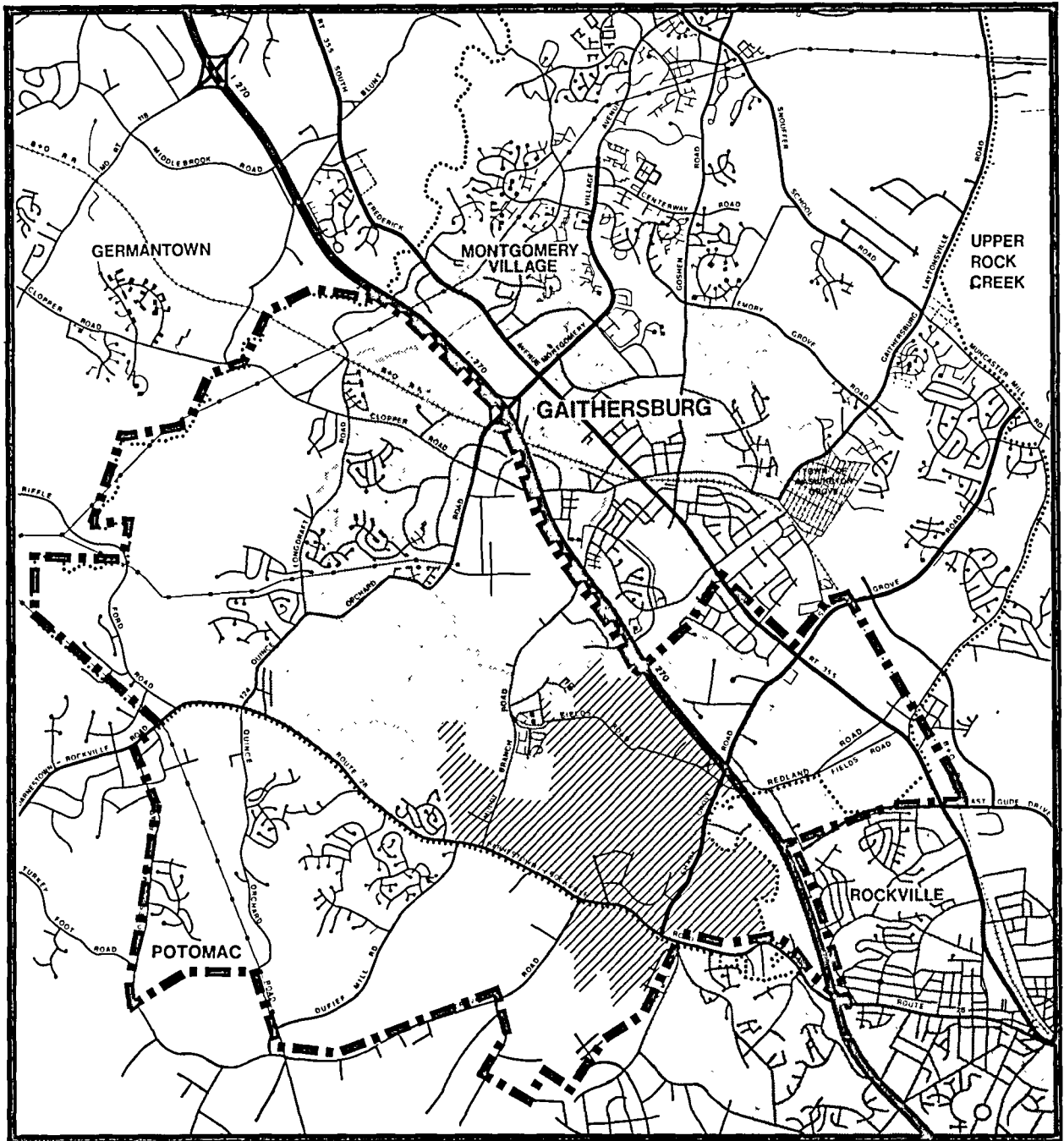
The Montgomery County Subdivision Ordinance requires the Planning Board to review all preliminary plans of subdivision for adequacy of programmed public facilities and to deny those for which it finds that existing and programmed facilities are not adequate.

The Adequate Public Facilities Ordinance (APF) Administrative Guidelines state that any project which is at least 80 percent funded for construction in the County 6-year Capital Improvements Program (CIP) or in the State Consolidated Construction Program will be considered as part of the transportation network.




The MD 28 Corridor is unique from other parts of the County because other parts of the County may require only one or two road projects to relieve congestion. In the MD 28 Corridor, at least eight major improvements are programmed to accommodate expected development. As a result, development may be approved under existing guidelines based on the traffic capacity provided by numerous roads programmed but not yet under construction. If, for any reason, the construction of a project or projects does not proceed on schedule, development may occur before needed traffic capacity exists. Communities along MD 28 may be subjected to long periods of inconvenience as a result.

This Plan cannot prevent "short-term" capacity imbalances during periods of actual road construction. Staging at the master plan level, however, will help prevent long periods of inconvenience due to unforeseen delays in the County and state construction program by linking new development to the awarding of road construction contracts rather than just the programming of construction.

The Implementation Chapter of this Plan discusses how this will be accomplished.



## MD. 28 CORRIDOR STAGING AREA

-  MUNICIPALITIES
-  STAGING AREA BOUNDARY
-  SHADY GROVE WEST AREA

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Fig. 21

### Properties Affected by Staging Plan

The entire MD 28 Corridor is affected by this staging plan. The staging recommendations apply to all vacant, undeveloped properties in the corridor with the following exceptions:

- Vacant properties which have been recorded for development are excluded from the staging plan; and
- Vacant properties which have approved preliminary subdivision plans are excluded from the staging plan.

Properties in these two categories have proceeded through the development process already and have been reviewed in terms of traffic impacts. If owners of parcels in either of these two categories apply for resubdivision or if an approved subdivision plan lapses, then new development plans will be reviewed in accordance with the Plan's staging recommendations.

### Relation of Staging Plan to Subdivision Review Process

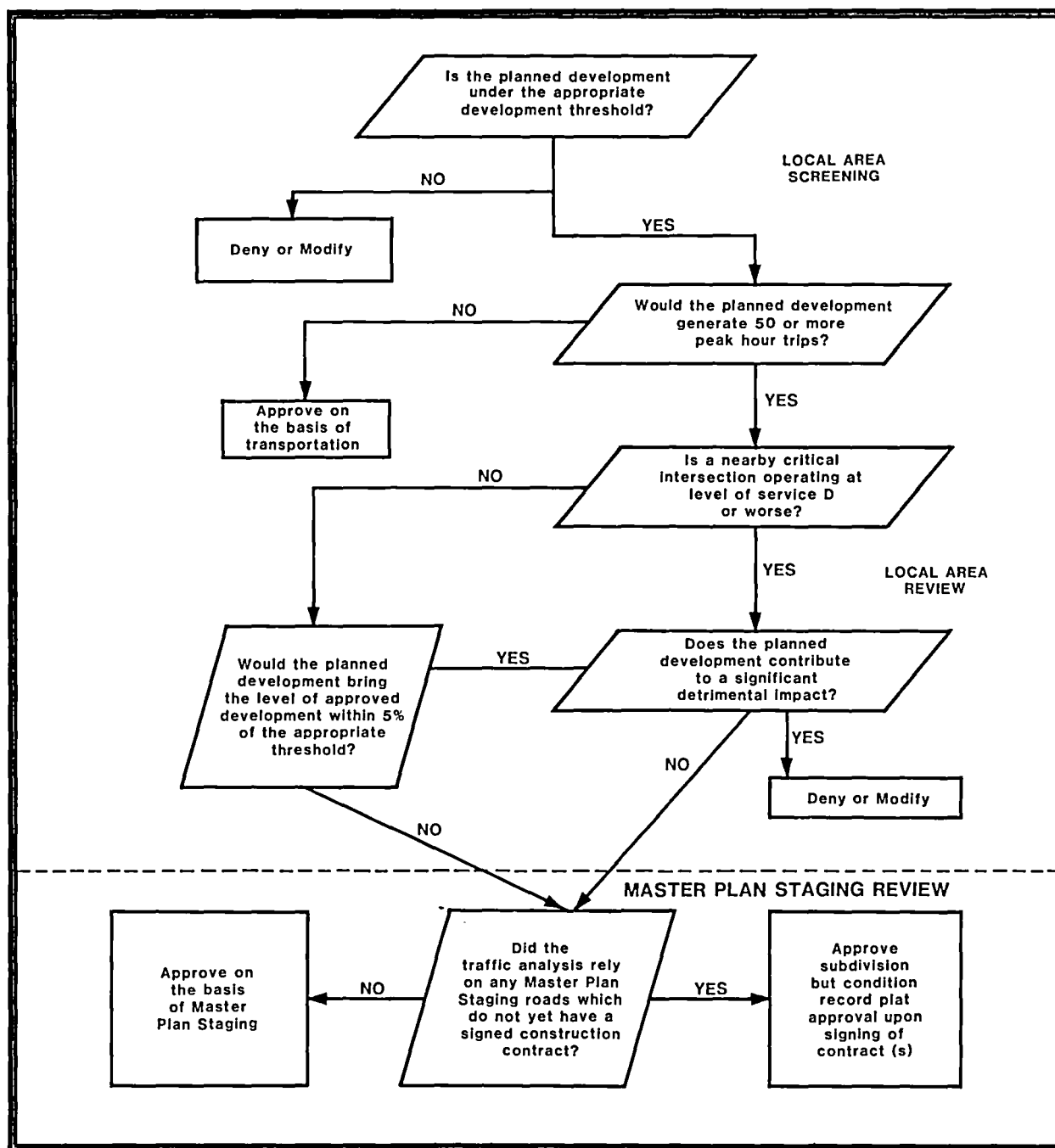
Properties which are shown in the early development stages will proceed through the regular subdivision process. The properties will be analyzed in terms of traffic impact in accord with the APF Administrative Guidelines. (See figure 22.) If a subdivision passes the APF test, the subdivision will be approved with a condition that it may not be recorded until the roads identified in the staging plan are under contract for construction. This approach will link the construction of new development to the construction of new roads.

### Staging Guidelines

As noted earlier, the primary objective of the staging plan has been to assure that the pace of development in the MD 28 Corridor is more closely related to available traffic capacity.

Other planning objectives, unrelated to transportation, have also guided the staging recommendations. They are:

- Office development in Shady Grove West should be staged over time to allow the market to evolve for higher intensity mixed uses envisioned by the Master Plan.
- Residential and office uses should be included at all phases of development to implement the Master Plan objective "to provide the opportunity for people to live and work in the same community." The appropriate balance between residential and office development is a matter of judgment as to the County's and each local area's relative employment, fiscal, and housing needs.
- The amount of development proposed in each stage reflects judgments as to road capacity and user demand. If a subdivision is so designed and located to facilitate public transit service, then additional development may be possible when transit service is programmed or provided. Similarly, if additional highway studies find more or less traffic capacity, then the specific recommendations of this Plan can and should be modified.



## RELATIONSHIP OF MASTER PLAN STAGING TO THE STANDARD APPROVAL PROCEDURE FOR TRANSPORTATION ADEQUACY

- Existing farming operations (Banks, Thomas, Crown) should be placed in later stages of development to encourage their continuation for some time. These farms may well remain in agricultural use for some time, but eventual conversion of the Crown and Thomas Farms would be desirable from a planning perspective to achieve the development objectives of the Gaithersburg Vicinity Master Plan. The timing of development and scale for the Banks Farm will be determined as part of a future Master Plan Amendment.
- Any staging policy for an area as large as this and with as many new highway projects will have to be reviewed and changed as new information becomes available. If any changes to the staging recommendations are deemed necessary, they will be made in the context of a Master Plan Amendment. In any event, a comprehensive Master Plan Amendment will occur before Stage III.
- Parcels which are already recorded which apply for resubdivision or which have approved preliminary subdivision plans which lapse will be reviewed in the same manner as a new preliminary subdivision plan.

#### Proposed Stages of Development: Shady Grove West Area

Existing areas of development and existing roadways in Shady Grove West are shown in figure 23.

The key parcels discussed in the staging plan are identified in figure 24.

This staging plan makes detailed recommendations for the Shady Grove West portion of the MD 28 Corridor. For the balance of the MD 28 Corridor, more generalized recommendations are presented since properties in the cities of Gaithersburg and Rockville are involved as well as properties in other County planning areas (Potomac, Shady Grove Sector Plan).

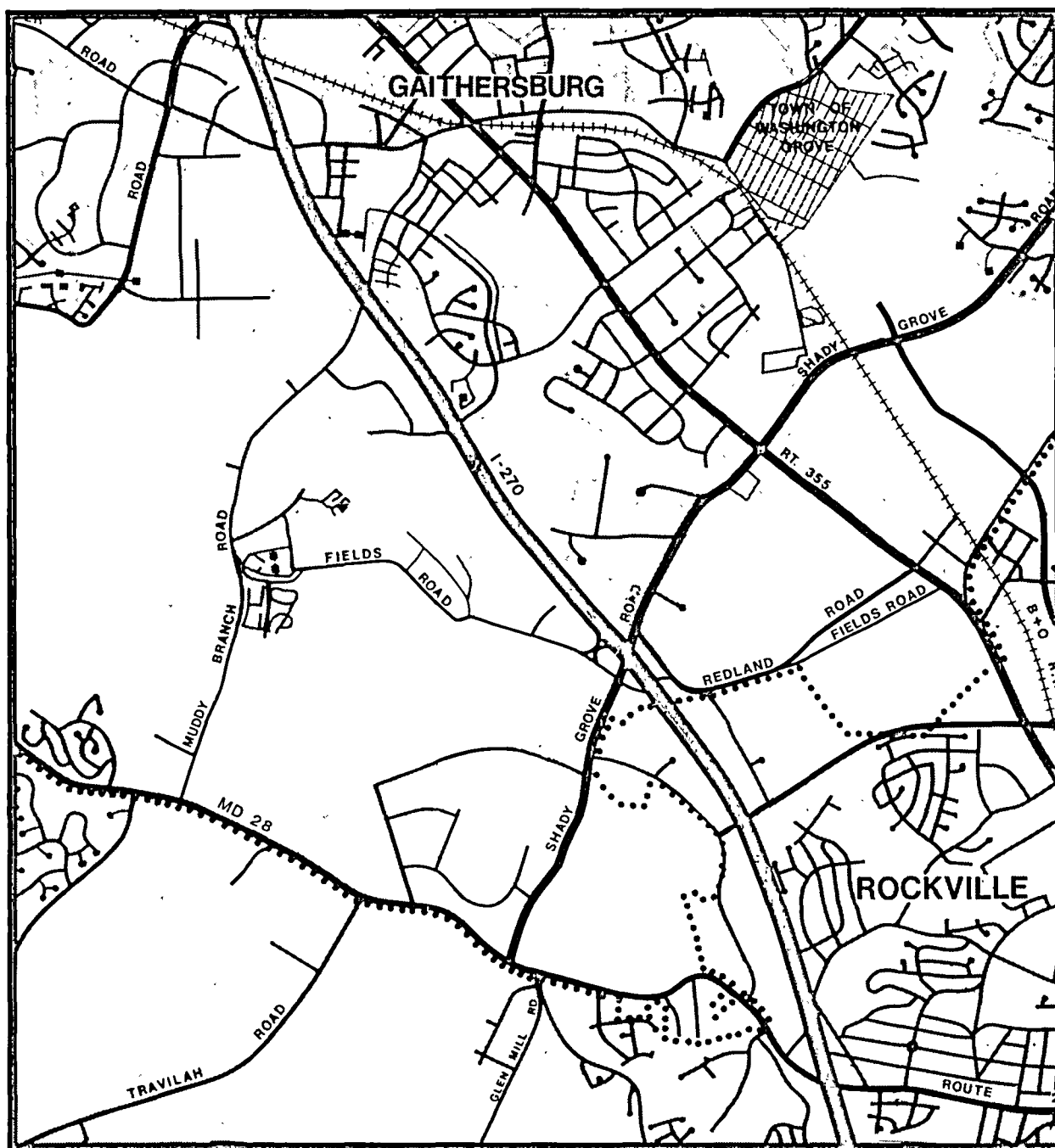
Three stages of future development are proposed by this Plan. (See figure 25 and table 5.) Each stage includes a series of transportation improvements and a certain amount of residential and non-residential development. Road improvements are grouped according to their programmed or planned construction dates. Roads are identified individually because different parcels are staged to the construction of different roads.

To develop a consistent and integrated staging approach, the staging recommendations of this Plan are complementary to the Planning Board's 1984 Comprehensive Planning Policy Report (CPP) and the development thresholds described therein.

Development for Stage I has been allocated based upon the traffic studies done as part of the CPP. The CPP analysis also reflects the significant changes in transit availability throughout the County and Gaithersburg area associated with the opening of Metro to Shady Grove.

Stage I includes a large number of roads and spans six years. Some development is keyed to roads which are scheduled to be constructed in the next one or two years; other development is keyed to roads which will be built later in the six-year period. Stage I does not include already approved and recorded plats because they have already been accounted for in determining threshold capacity remaining at the beginning of Stage I development.





**SHADY GROVE WEST AREA -  
EXISTING DEVELOPMENT CONDITIONS (DECEMBER 1984)**

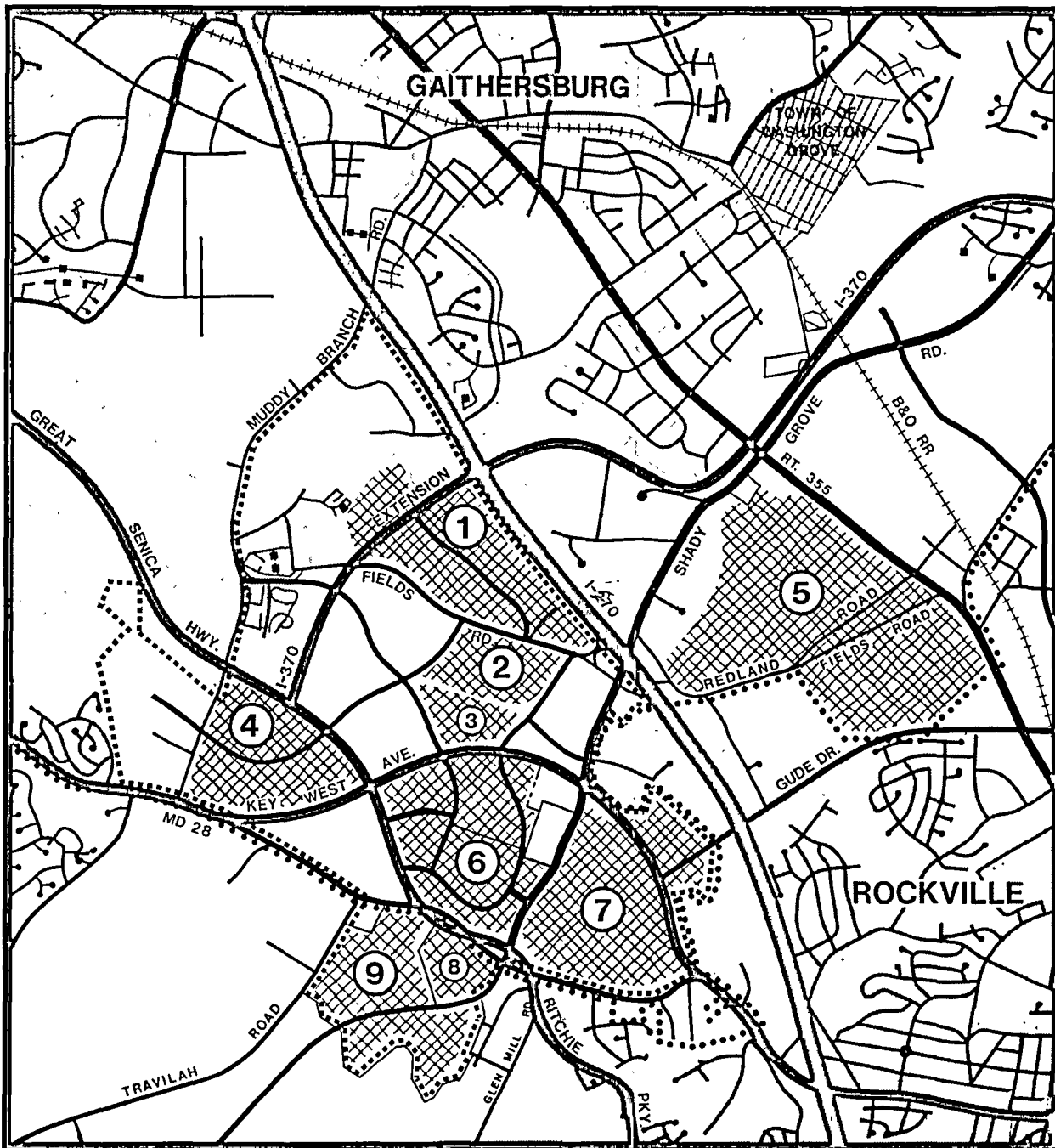
 EXISTING/COMMITTED DEVELOPMENT

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Fig. 23



## SHADY GROVE WEST AREA - PLAN TERMINOLOGY

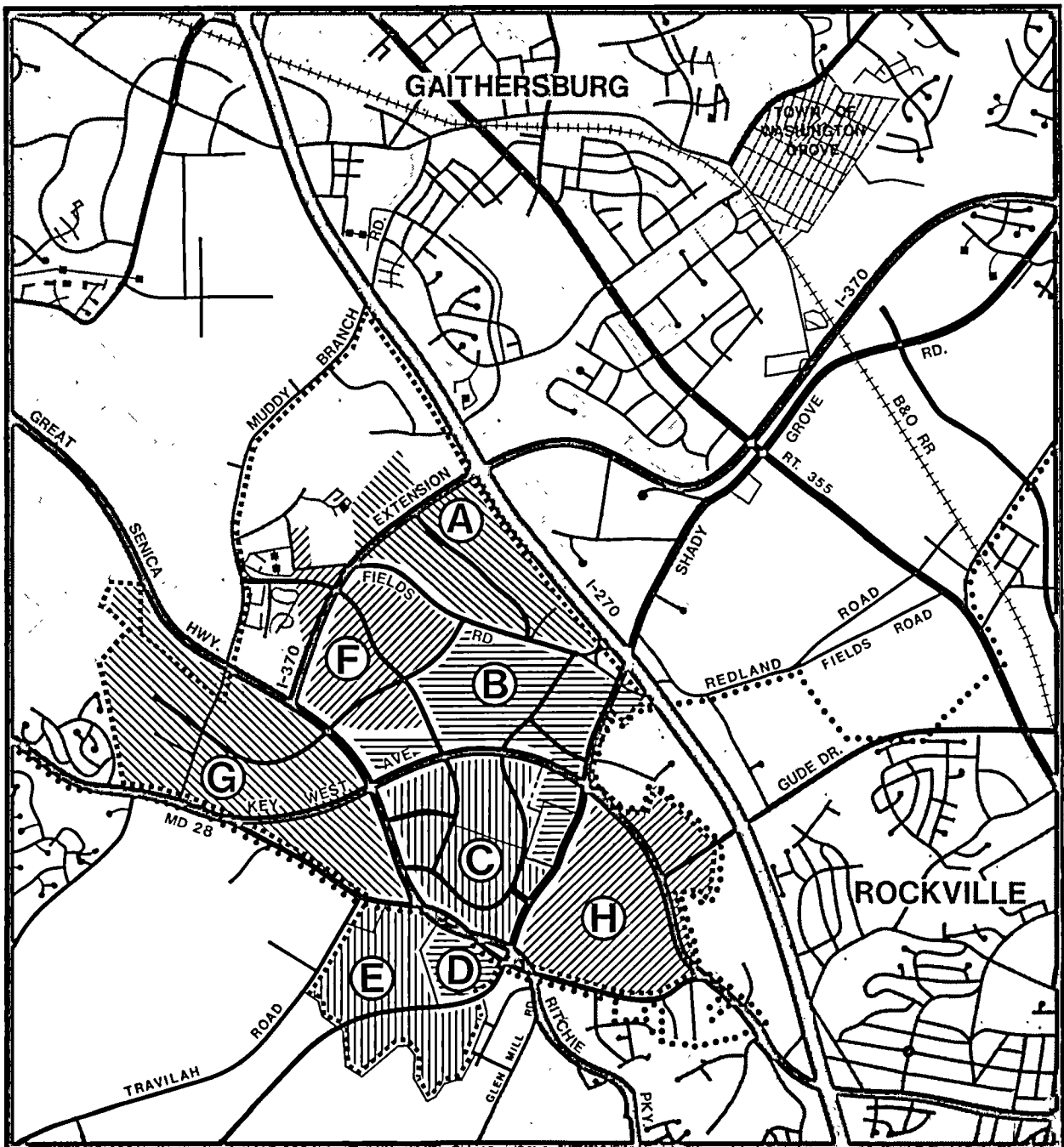
- |                        |                        |                   |
|------------------------|------------------------|-------------------|
| ① Washingtonian Center | ④ Banks Farm           | ⑦ Thomas Farm     |
| ② Crown Farm           | ⑤ King Farm            | ⑧ Gudelsky Tract  |
| ③ NUS Site             | ⑥ Life Sciences Center | ⑨ Percon Property |

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**Fig. 24**



## SHADY GROVE WEST AREA - STAGING DISTRICTS

(A-F) R&D VILLAGE

(A) Corporate District

(B) R&D District

(C) Bio-Technology District

(D) University District

(E) Conference Center District

(F) Residential District

(G) MD. 28 Residential District

(H) Residential / R&D District (Thomas Farm)

..... Study Area Boundary

**APPROVED & ADOPTED GAITHERSBURG VICINITY MASTER PLAN**  
Montgomery County Maryland

January, 1985



**Fig. 25**

TABLE 5

PROPOSED STAGING FOR SHADY GROVE WEST  
AREA OF THE MD 28 CORRIDOR

(Office, retail, commercial uses expressed in square feet; residential uses expressed in dwelling units)

Footnotes are explained in accompanying text.

STAGE	I				II		III	
EVENTS*	a. Shady Grove West to 6 lanes (FY 86-87).		f. Gaither Road**		l. I-370 Extended (FY 88-90).		o. Widening of I-270.	
*(Construction dates reflect Approved 1985-90 CIP) See Footnote 1	b. Shady Grove/I-270 Interchange.		g. Quince Orchard Road (FY 85-86).		m. Key West as 2-lane road between Shady Grove Road and Gude Drive (FY 87-88).		p. Extension of Key West from Gude Drive east to MD 28.	
**Under construction as of 12/84	c. Omega Drive**		h. Fields Road-Muddy Branch (FY 88-90).		n. Muddy Branch as 4-lane road (FY 86-90).		q. Widening of MD 28 from 2 lanes to 4 lanes or widening of Key West to 6 lanes.	
	d. Key West: 2 lanes from Shady Grove to MD 28 & MD 28 spot improvements (FY 85-86).		i. Key West widening to 4 lanes between Shady Grove Road and Great Seneca (FY 89-90).				r. Widening of Key West between MD 28 and Great Seneca from 2 to 4 lanes and Great Seneca connection.	
	e. Fields Road-Piccard Drive/MD 355.**		j. Great Seneca Highway, Key West to Quince Orchard (FY 86- ).				s. Widening of Ritchie Parkway (MD 28 to Falls Rd.)	
			k. I-370 Metro Connector (FY 86-89). <sup>2</sup>				t. Great Seneca Highway (Quince Orchard to Middlebrook).	
	Sq. Ft.	D.U.	Sq. Ft.	D.U.	Sq. Ft.	D.U.	Sq. Ft.	D.U.
MAXIMUM ALLOWABLE DEVELOPMENT <sup>3</sup>								
A) Corporate District (Washingtonian)	525,000 (a,b,c)	750	-	-	1,300,000 (h,k,l)	-	2,700,000 (o) See Note 6	750
B) R&D District <sup>4</sup>	225,000 (a,b,c,d)	-	125,000 (i)	-	225,000 (m)	-		
C) Bio-Technology District (Life Sciences Center)	600,000 (a,b,c,d)	-	300,000 (i)	-	400,000 (m)	-		
D) University District <sup>5</sup>	-	-	-	-	-	-		
E) Conference Center/ R&D District	-	-	-	-	-	-		
F) Residential District	-	250 (a,b,c,d)	-	250 (h,i)	-	250 (l)		
G) MD 28 Residential District		50 (a,b,c)		50 (i,j)	-	200 <sup>7</sup> (l,m,n)		
H) Residential/R&D District (Thomas Farm)	-	-	-	-	400,000 <sup>8</sup> (a,d,m)	-		
TOTALS	1,350,000	1,050	425,000	300	2,325,000	450	2,700,000	750
TOTALS STAGE I & II					4,100,000	1,800		

A Master Plan Amendment will determine Stage III recommendations for these areas.

FOOTNOTES FOR TABLE 5:

- 1 Some roads will be constructed during the time frame of Stages I and II but they are not staging events for Shady Grove West. They are shown for information. The roads which are needed for development in a district to proceed in Stage I must be under construction before Stage II can proceed.
- 2 The I-370 Metro Connector will be constructed during the time frame of Stage I but it will not become important to Shady Grove West until I-370 Extended is completed in Stage II.
- 3 The maximum allowable development shown in this table may only occur if a subdivision passes local area review (see Implementation section) at time of subdivision. The local area review process allows the traffic impact of a subdivision to be examined in more detail than at the Master Plan level and includes an examination of traffic impacts on nearby intersections.  
  
The 1985 threshold for residential development in the Gaithersburg Policy Area is 0. Additional residential development will only be approved under the threshold flexibility provisions or discount provisions of the Adopted Guidelines for administering the Adequate Public Facilities Ordinance.  
  
The threshold flexibility provisions allow approval above the threshold to be conditioned upon the future construction, by either the applicant and/or the government, of some public facility projects or the operation of a transit program which, if added to the approved Capital Improvements Program (CIP) as a programmed facility, will add capacity to the road network and result in the subdivision meeting the adequacy tests of local area review and will not result in lowering the areawide level of service.  
  
The discount provisions may permit subdivisions of 49 units or less to proceed if, in the judgment of the Planning Board, previously approved subdivisions in the area will not proceed to construction within 6 years.  
  
For a more complete discussion of APF guidelines, see the most recently adopted Comprehensive Planning Policies Report.
- 4 The NUS property (Area B-2) is presently zoned O-M. Unless the property owner applies for a change in the record plat or resubdivides the property or applies for the MXPD zone, the staging recommendation of this Plan would not apply to future development.
- 5 The University District is part of the Life Sciences Center and is included in the staging recommendations for the Life Sciences Center.
- 6 Development shown in Stage III could proceed prior to the widening of I-270 subject to future construction, by either the applicant and/or the government, of some other public facility projects or the operation of a transit program which, if added to the approved Capital Improvements Program(CIP) as a programmed facility, will add capacity to the road network and result in the subdivision meeting the adequacy tests of local area review and will not result in lowering the areawide level of service.
- 7 This capacity might be obtained by the programming of MD 28 improvements instead of "l, m, n" if such a substitution would result in acceptable levels of service and is supported by traffic studies done at time of subdivision. The balance of this development will be subject to staging decisions in the Stage III Master Plan Amendment.
- 8 If the segment of Key West Boulevard east of Gude Drive moves forward faster than anticipated in the staging plan, this parcel could proceed to development.

The majority of development in Stage I permits office uses -- primarily in the Life Sciences Center. Residential development must be constrained because previously approved subdivisions and already approved record plats elsewhere in the MD 28 Corridor have all but absorbed the residential threshold for this area. Since the immediate road capacity problem is MD 28 itself, the residential component of Stage I involves properties oriented primarily to I-270 and Shady Grove Road.

Stage II includes road projects which were added to the 1985-90 CIP by the Montgomery County Council. Although only three roads are involved in Stage II, they will add significant traffic capacity to the MD 28 Corridor area.

During Stage II, the key roads required to support the Washingtonian property along I-270 will be under construction (I-370 Extended, I-370 Metro Connector, and Fields Road). The extension of Key West to Gude Drive will help relieve the Shady Grove Road/I-270 Interchange, thereby aiding the entire Shady Grove area. The I-370 Metro Connector may only be contracted for construction to Fields Road and not to Great Seneca Highway during Stage II. Traffic studies done at time of subdivision will take into account the status of I-370.

Traffic capacity along "old" MD 28 will still be a problem in Stage II. Therefore, even the amount of residential development shown in Stage II may not be possible as a result. The APF review at time of subdivision will determine the number of units which can be built. Any improvement to existing MD 28 would relieve this staging constraint.

Stage III includes all Master Plan roadways not yet 80 percent funded for construction. These roads are critical to full development of the MD 28 Corridor area. The widening of I-270 is now being studied and design work is underway. This Plan strongly recommends that the State Highway Administration begin work on a MD 28 study since a significant portion of the development in Stage III relates to MD 28.

Stage III may be broken down into more stages as individual road projects are programmed for construction and as more detailed traffic studies are completed. A Master Plan Amendment will precede Stage III.

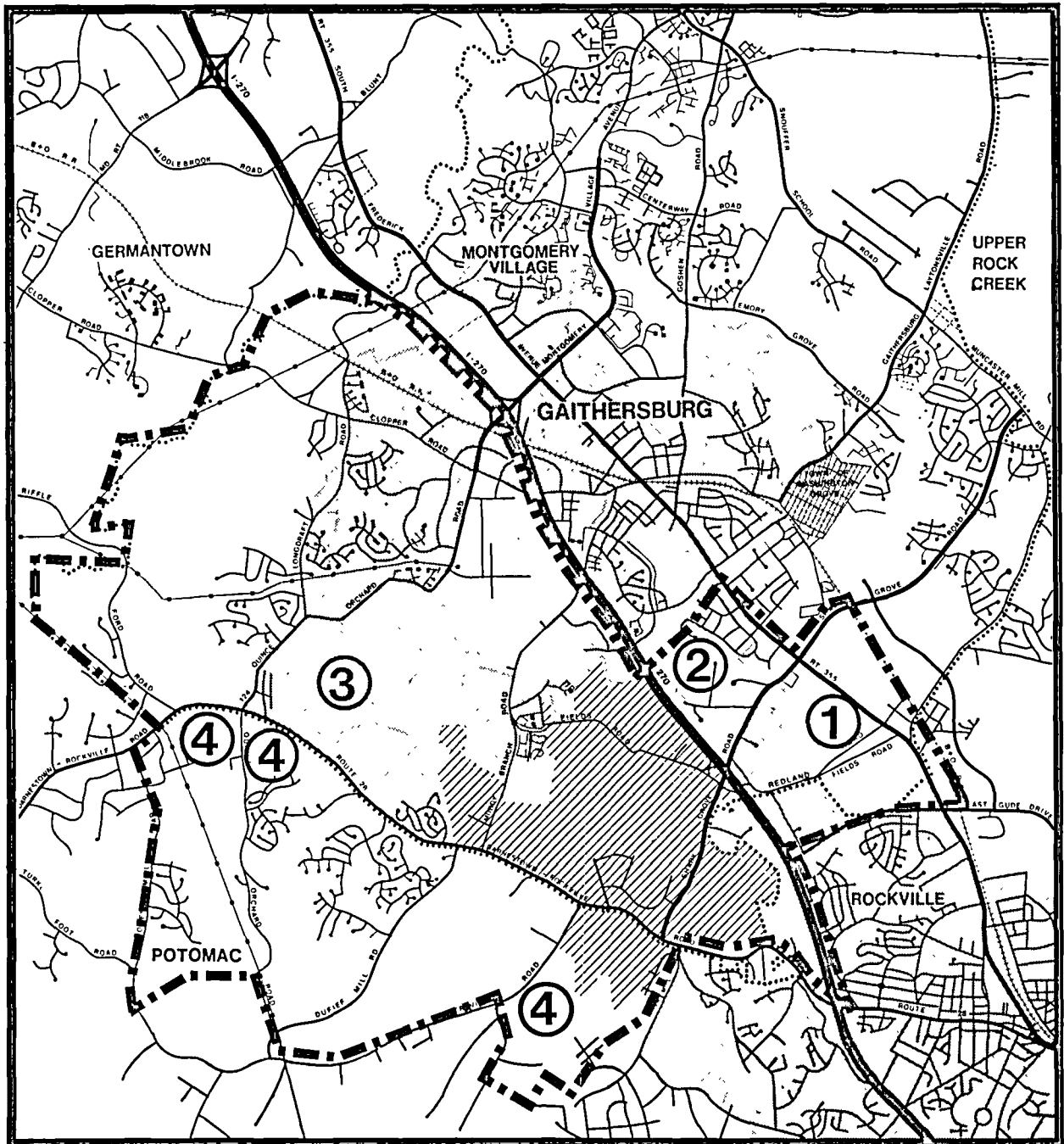
#### Staging Guidelines for Portions of MD 28 Corridor Outside Shady Grove West

As stated before, the staging recommendations for Shady Grove West will only be effective if vacant properties in the balance of the MD 28 Corridor are also staged. Key vacant properties are shown in figure 26. Staging recommendations for key parcels elsewhere in the MD 28 Corridor are summarized in table 6. The majority of development occurs in Stage III, thus allowing both Rockville and Gaithersburg adequate time to amend their master plans and regulatory processes to include a staging element.

The following staging guidelines are proposed by this Plan for vacant properties outside the Shady Grove West Area.

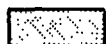


#### Washingtonian Industrial Area

1. The base zone for vacant land in the Washingtonian Industrial Park should be I-1 and I-4. The I-4 Zone allows offices only as special exception uses. This will allow applications for office development to be examined closely in terms of traffic generation. An application for O-M or I-3 zoning would be



## MD. 28 CORRIDOR STAGING AREA

Major Vacant Parcels Outside Shady Grove West

-  MUNICIPALITIES
-  STAGING AREA BOUNDARY
-  SHADY GROVE WEST AREA

- ① KING FARM
- ② WASHINGTONIAN INDUSTRIAL AREA
- ③ KENT FARM / NATIONAL GEOGRAPHIC
- ④ VACANT PARCELS SOUTH OF MD. RT. 28

**APPROVED & ADOPTED GAITHERSBURG VICINITY MASTER PLAN**  
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**Fig. 26**

TABLE 6

PROPOSED STAGING FOR PARCELS IN MD 28 CORRIDOR  
OUTSIDE OF SHADY GROVE WEST  
(Prepared July 1984)

(Office, retail, commercial uses expressed in square feet; residential uses expressed in dwelling units)

STAGE	I		II		III	
EVENTS*	a. Shady Grove West to 6 lanes (FY 86-87).	f. Gaither Road**	l. I-370 Extended (FY 88-90).	o. Widening of I-270.		
*(Construction dates reflect Approved 1985-90 CIP)	b. Shady Grove/I-270 Interchange.	g. Quince Orchard Road (FY 85-86).	m. Key West as 2-lane road between Shady Grove Road and Gude Drive.	p. Extension of Key West from Gude Drive east to MD 28.		
**Under construction as of 12/84	c. Omega Drive**	h. Fields Road-Muddy Branch (FY 88-90).	n. Muddy Branch as 4-lane road (FY 86-90).	q. Widening of MD 28 from 2 lanes to 4 lanes or widening of Key West to 6 lanes.		
	d. Key West: 2 lanes from Shady Grove to MD 28 & MD 28 spot improvements (FY 85-86).	i. Key West widening to 4 lanes between Shady Grove Road and Great Seneca.		r. Widening of Key West between MD 28 and Great Seneca from 2 to 4 lanes and Great Seneca connection.		
	e. Fields Road-Piccard Drive/MD 355.**	j. Great Seneca Highway, Key West to Quince Orchard.		s. Widening of Ritchie Parkway (MD 28 to Falls Rd.)		
		k. I-370 MetroConnector (FY 86-89)		t. Great Seneca Highway (Quince Orchard to Middlebrook).		
	Sq. Ft.	D.U.	Sq. Ft.	D.U.	Sq. Ft.	D.U.
DEVELOPMENT:						
King Farm <sup>1</sup>	-	-	-	-	-	A Master Plan Amendment will determine Stage III recommendations
Washingtonian Industrial Area <sup>2</sup>	360,000 (b,e,f)	-	-	-	250,000 (k,m)	500,000 (o) <sup>3</sup> -
Kent Farm National Geographic <sup>4</sup>	-	-	-	-	-	7,000,000 (o,p,q,r) -
Vacant Parcels South of MD 28 <sup>5</sup> (Potomac Master Plan Area)	-	-	-	-	-	- 1,335 (q)
TOTALS	360,000				250,000	14,500,000 1,355

<sup>1</sup> The King Farm is currently zoned residential (R-200) but planned for industrial uses (see Shady Grove Sector Plan). A future Master Plan Amendment will determine the amount and type of industrial uses and explore the possibility of including housing.

<sup>2</sup> See text for staging guidelines. The amount of development in Stage I assumes I-4 industrial zoning (offices are special exception uses).

<sup>3</sup> Development shown in Stage III could proceed prior to the widening of I-270 subject to future construction, by either the applicant and/or the government of some other public facility projects or the operation of a transit program which, if added to the approved Capital Improvements Program (CIP) as a programmed facility, will add capacity to the road network and result in the subdivision meeting the adequacy tests of local area review and will not result in lowering the areawide level of service.

<sup>4</sup> Development yields cannot be accurately estimated since future Master Plan Amendments by the city of Gaithersburg will determine the build-out. For purposes of this chart, the Kent Farm and the balance of National Geographic build-out has been assumed at .4 FAR. In any case, future Master Plan Amendments which affect these properties should include a staging element.

<sup>5</sup> The development potential of this area has been calculated by applying 2 DU/acre build-out to vacant, uncommitted land.



appropriate once Gaither Road, Fields Road, and I-370 Metro Connector are under construction. More detailed traffic studies at time of zoning will help determine the actual amount of office square footage.

Additional small scale office "infill" may be permitted if detailed traffic studies indicate adequate intersection capacity.

#### King Farm

1. The zoning for the King Farm should continue to be R-200.

A Master Plan Amendment which will examine Metro accessibility will precede re-zoning. This future Amendment will examine the possibility of providing a mix of residential and office uses, a major open space component, and the suitability of the MXP Zone for all or part of the King Farm.

#### Recommended Guidelines for Parcels in City of Gaithersburg

The City of Gaithersburg Master Plan should be amended in a timely manner to include staging guidelines that are complementary to those suggested for Shady Grove West. Staging guidelines are particularly important for the following parcels:

1. The Kent Farm -- The City of Gaithersburg Master Plan designates the Kent Farm as a "concentric generator" with a mix of residential, retail, and office uses. The city's Plan should be amended to include a staging element which links build-out to needed road improvements.
2. The balance of the National Geographic property -- Although there are no plans at this time to expand National Geographic, this eventuality must be addressed.
3. Any future development of the GEISCO property beyond existing approvals.

#### Recommended Guidelines for Parcels in City of Rockville

The City of Rockville Master Plan should be amended in a timely manner to include staging guidelines which are complementary to those suggested for Shady Grove West. Staging guidelines are particularly important for the following parcels:

1. This Plan postpones a decision on the ultimate land use for the Thomas Farm until a future Master Plan Amendment. The widening of MD 28 south of the Thomas Farm and the widening of Ritchie Parkway are critical transportation events for Stage III development of the Thomas Farm. Development therefore should be staged to necessary road improvements.

The Thomas Farm is within Rockville's maximum expansion limits. If the Thomas Farm is annexed by the city of Rockville, the city should amend its Master Plan to link development to the widening of MD 28 south of the Thomas Farm and the widening of Ritchie Parkway. These improvements are important to the ultimate Stage III development.

2. The Rockville Master Plan should be amended to incorporate an appropriate staging element for the portion of the King Farm located within Rockville.

Alternatively, development should be staged in accordance with the recommendations of the Shady Grove Sector Plan and the Gaithersburg Vicinity Master Plan at time of annexation.

#### Potomac Master Plan Area (Parcels in MD 28 Corridor Area)

Future development in this area south of MD 28 should be staged to additional highway capacity along MD 28, as well as other Stage III highway improvements. This highway capacity could be provided either by widening MD 28 to four lanes east to the I-270 interchange or by widening Key West Boulevard to six lanes.

#### Linking Future Development to Road Construction

This Plan recommends that roads identified in the staging plan should be under construction before new development can proceed. To implement this policy, record plats for new development should not be approved until the construction contracts for the appropriate roads have been awarded.

The policy is different from current subdivision review procedures which consider any road that is 80 percent funded for construction in the County or state CIP as adding traffic capacity. The reasons for proposing a different approach in the MD 28 Corridor are existing traffic conditions, the magnitude of future road projects, and community concern about possible slippages in the road construction program.

#### Implementation Strategies

The actions which are necessary to implement the staging recommendations are discussed in the Implementation Chapter. A summary of these actions follows:

- Zone properties shown in Stage III as R-200; rezoning to a higher density should wait further refinement of Stage III. Stage III should be amended when the impacts of Stage I and II can be evaluated and when the timing of MD 28 improvements and I-270 widening are known.
- Any MXPDP applications in accordance with this Plan could be accepted at any time as long as the staging component of the MXPDP application conforms with this Plan's staging for the subject property.

Although the staging plan will be reflected in the MXPDP application, the actual location of development will not be predetermined by this Plan.

- Amend the administrative guidelines for the Adequate Public Facilities Ordinance to permit the staging approach outlined in this chapter (that is, the recording of new development plats should be linked to the awarding of contracts for the construction of new roads).
- Amend the Master Plan before Stage III and follow the Plan by a Sectional Map Amendment.
- Change the sewer and water priorities for all properties shown in Stage III to Priority 2 - no service envisioned for at least 6 - 10 years.
- Re-examine the 10-Year Water and Service Plan recommendations as part of the Master Plan Amendment which will precede Stage III.

# Transportation Plan

This chapter makes recommendations regarding highways, mass transit systems, bikeways, and equestrian trails.

## GOALS AND GUIDELINES

The intent of this Plan is to ensure convenience, accessibility, and flexibility with regard to the area's circulation system in the following manner:

- Develop a highway network in coordination with the existing regional network.
- Develop quality public transportation systems and advance private ride-sharing and carpooling programs to reduce dependence upon single-occupancy automobile commuting.
- Encourage adequate residential and employment densities to support efficient public transit and carpool/vanpool programs.
- Encourage the provision of bikeways for commuter as well as recreational uses.
- Encourage the development of public and private pathways for pedestrian movement in concert with road design and construction.

## HIGHWAY RECOMMENDATIONS

A matter of great concern during the Plan process has been whether the Master Plan transportation system can handle the Master Plan "end-state" land use recommendations.

To allay this concern, Planning Board staff modeled the end-state road network and the potential end-state development pattern. This analysis confirmed

that the Master Plan road network could accommodate the potential Master Plan build-out.

Since the time of the road network analysis, many land use recommendations in the Shady Grove West area have been modified as a result of Plan worksessions. Thus, the determination that the traffic capacity of the Transportation Plan network can accommodate the end-state land use plan can no longer be made.

For this reason, a Master Plan Amendment will precede the rezoning of larger parcels in Shady Grove West. As part of this future Amendment, the ability of existing and future roadways to accommodate potential development will be examined. This analysis will influence the amount, type, intensity, and staging of employment and residential uses recommended in the Amendment.

This Plan recommends a limited amount of residential and employment uses. The traffic capacity of roads scheduled for construction in Stages I and II (see Staging Recommendations chapter) is sufficient to accommodate the land use development proposed for those stages on an areawide basis, although each parcel must be reviewed under the Local Area Transportation Review to ensure that it can be accommodated within the local area.

The roads shown on the Transportation Plan map (figure 27) are described in Table 7, Street and Highway Classifications.

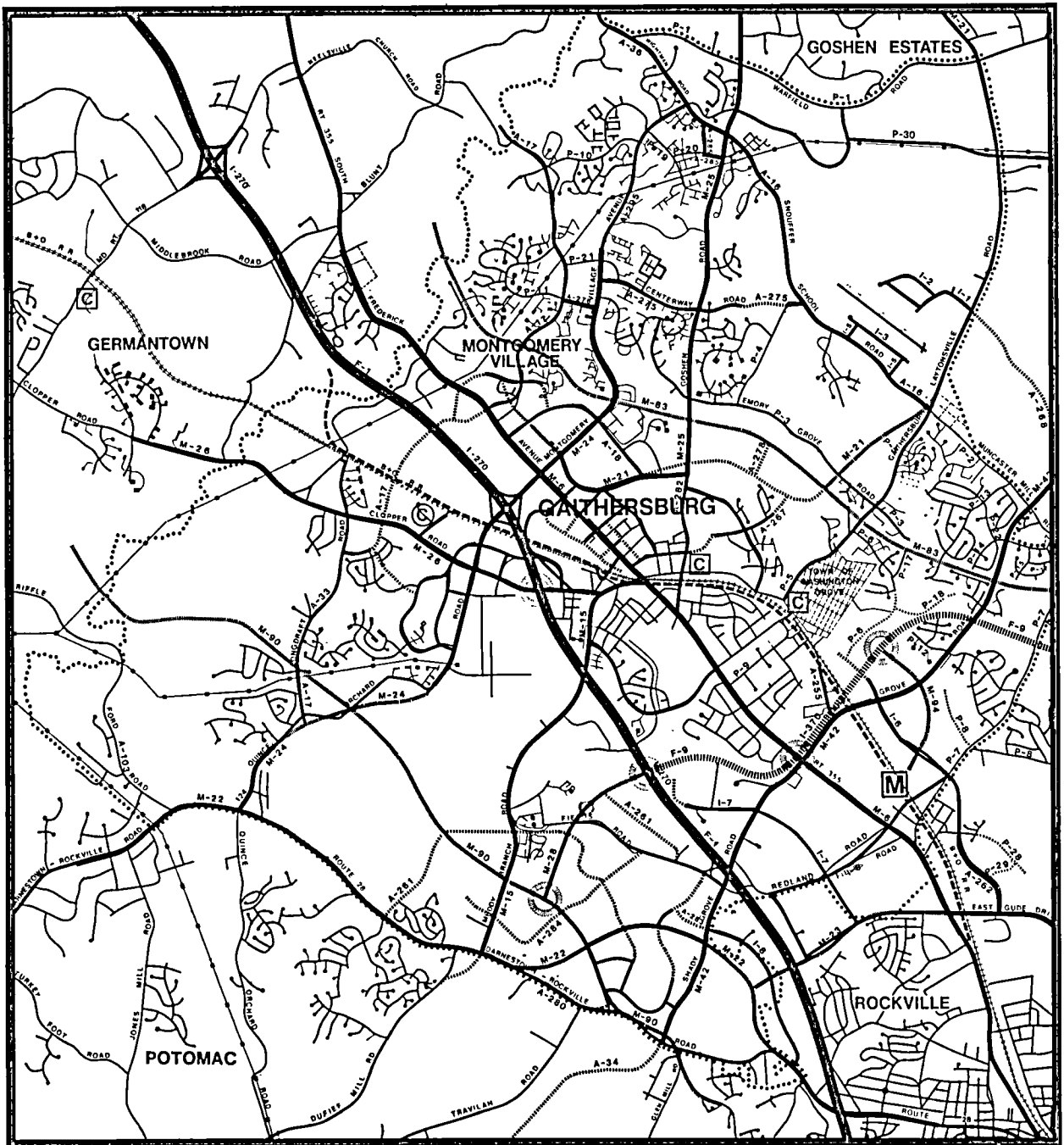
A brief description of the major new roadways proposed by this Plan appears below. More detailed information on these and other roadways is included in the Technical Appendix.

#### I-370 (Metro Access Highway) and Related Roadways

The construction of I-370 (Metro Access Highway) is the most important element to the implementation of this Plan.

Construction of this roadway is expected to begin by 1985 and to be completed by 1989. A connection from the I-370/I-270 interchange west to Great Seneca Highway is also planned. The construction of this road, called the I-370 Connector, is in the County Capital Improvements Program to be completed in FY 90. Fields Road will be reconstructed as an urban, arterial highway.

Fields Road between Omega Drive and the I-370 Connector is classified by the Transportation Plan as an arterial roadway (80-foot right-of-way) with a possible future 100-foot right-of-way. The Crown Farm, which abuts this roadway on the south side, is one of the areas for which final land use recommendations will be decided as part of a future Master Plan Amendment. It is possible that those recommendations will produce traffic volumes that require six lanes on Fields Road, in which case a 100-foot right-of-way would be the minimum. The 100-foot right-of-way assumes that sidewalks will be constructed on private property. Normally, a sidewalk is within the public right-of-way and follows the roadway. Because Fields Road terminates at a controlled major highway that almost immediately becomes a freeway-type facility, a pedestrian connection (at least on the Washingtonian side) is inappropriate. The specifics of the Fields Road cross section design may be atypical and should be determined as part of the development plan for the Washingtonian site. This Plan endorses that approach. Any additional right-of-way required by development on the Crown Farm would come from the south side.



## TRANSPORTATION PLAN

- ..... Planning Area Boundary
- Transit Easement
- M Metro Station
- C Commuter Rail Station-Existing
- C Commuter Rail Station-Recommended

NOTE: See Text, Actual Alignment May Differ

	Existing	Proposed
Freeway (F-1)		
Major (M-1)		
Arterial/Industrial (A-1)		
Primary (P-1)		
Interchange		

**APPROVED & ADOPTED GAITHERSBURG VICINITY MASTER PLAN**  
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**Fig. 27**

TABLE 7  
STREET AND HIGHWAY CLASSIFICATIONS

Project Number	Route Number	Name	Limits	Right-of-Way Width	Recommended Number of Lanes or Paving Width
<b>FREEWAYS</b>					
F-1	I-270	Washington National Pike	From Great Seneca Creek to Rockville City Boundary at Shady Grove Road	250'	8
F-9	I-370	Metro Access Highway/Intercounty Connector	From I-270 to Plan Boundary (Redland Road) (P-7)	300'	6
<b>CONTROLLED MAJOR HIGHWAYS</b>					
M-83	MD 115	Midcounty Highway	From Great Seneca Creek to Redland Road (P-7)	150'	4 to 6
M-90	-	Great Seneca Highway	From Great Seneca Creek to Shady Grove Road at West Ritchie Parkway	150'	4 to 6
<b>MAJOR HIGHWAYS</b>					
M-6	MD 355	Frederick Avenue	From Great Seneca Creek to Rockville City Boundary	120'	6
M-15	-	Muddy Branch Road	From Darnestown Road (M-22) to West Diamond Avenue (M-26)	120'	6
M-21	MD 124 (Part)	Oden'hal Avenue	From Lost Knife Road (A-18) to Girard Street Relocated	120'	4-6
M-21	MD 124	Gaithersburg-Laytonsville Road Relocated	From Midcounty Highway (M-83) to Warfield Road (P-1)	120'	4-6
M-22	MD 28	Darnestown Road/Key West Avenue	From Pepco Right-of-way to Rockville City Boundary	120'	4-6
M-23	-	Gude Drive	From Key West Avenue (M-22) to Rockville City Boundary	120'	4-6
M-24	MD 124 (Part)	Quince Orchard Road/Montgomery Village Avenue	From Darnestown Road (M-22) to A-295 (500 feet north of Club House Road)	120'-150'	4-6
M-25	-	Goshen Road	From Oden'hal Avenue (M-21) to Warfield Road (P-1)	120'	4-6
M-26	MD 117/124	Clopper Road/West Diamond Avenue	From Great Seneca Creek to Muddy Branch Road (M-15)	120'	4-6
M-28	-	I-370 Extended (Sam Eig Highway)	From Great Seneca Highway (M-90) to I-270 (F-1)	150'	4 to 6
M-42	-	Shady Grove Road	From Great Seneca Highway (M-90) to Muncaster Mill Road (P-2)	120'	6
M-94	-	Metro Access Road	From Metro Access Highway/Intercounty Connector (F-9) to Metro Station	150'	4
<b>ARTERIAL HIGHWAYS/BUSINESS DISTRICT STREETS</b>					
A-16	-	Snouffer School Road	From Goshen Road (M-25) Gaithersburg-Laytonsville Road Relocated (M-21)	80'	4
A-17	-	Longdraft Road/Watkins Mill Road	From Quince Orchard Road (M-24) to Great Seneca Creek (Excluding those portions within the City)	80'	4
A-18	-	Christopher Avenue/Lost Knife Road	From Gaithersburg City Boundary to Oden'hal Avenue (M-21)	80'	4
A-33	-	Longdraft Road	From Longdraft Road/Watkins Mill Road (A-17) to B&O Railroad	80'	4
A-34	-	Shady Grove Road Extended	From Great Seneca Highway (M-90) to Plan Boundary	80'	4
A-36	-	Wightman Road/Brink Road	From Great Seneca Creek to Goshen Road (M-25)	80'	4
A-103	-	Riffle Ford Road	From Great Seneca Creek to Darnestown Road (M-22)	80'	4
A-255	-	Oakmont Avenue	From Shady Grove Road to the Gaithersburg City Boundary	80'	4

TABLE 7 (Cont'd.)

Project Number	Route Number	Name	Limits	Right-of-Way Width	Recommended Number of Lanes or Paving Width
ARTERIAL HIGHWAYS/BUSINESS DISTRICT STREETS (Cont'd.)					
A-261	-	Fields Road	From I-370 Extended (M-28) to Omega Drive (A-261a)	100'	4
A-261a	-	Omega Drive	From Fields Road (A-261) to Key West Avenue (M-22)	100'	4
A-261b	-	Fields Road Relocated/ Diamondback Drive	From existing Fields Road (Gaithersburg City	80'-100'	4
A-267	-	Broschart Road/Medical Center Drive Brooks Avenue Extended	Boundary) to Key West Avenue (M-28) From Gaithersburg City Boundary to Oden'hal Avenue Extended (A-269)	80'	4
A-268	-	Airpark Road Extended	From Gaithersburg-Laytonsville Road (M-21) to Shady Grove Road (M-42)	80'	4
A-269	MD 124	Oden'hal Avenue Extended	From Girard Street Relocated to Midcounty Highway (M-83)	80'	4
A-275	-	Centerway Road	From Montgomery Village Avenue (M-24) to Snouffer School Road (A-16)	80'	4
A-276	-	Stedwick Road	From Watkins Mill Road (A-17) to Montgomery Village Avenue (M-24)	80'	4
A-278	-	New Road	From M-21 to Eastern Arterial (M-83)	80'	4
A-280	MD 28, existing	Damestown Road	From Key West Avenue (M-22) to Great Seneca Highway (M-90)	80'	4
A-284	-	New Road	From Washingtonian Country Club site to Fields Road (A-261)	80'-100'	4
A-285	-	Burr Oak Drive/Rothbury Drive	From Wightman Road (A-36) to Goshen Road (M-25)	80'	4
A-295	-	Montgomery Village Avenue	From M-24 (500 feet north of Club House Road) to Wightman Road (A-36)	80'	4
A-296	MD 28, existing	Damestown Road	From Great Seneca Highway (M-90) to Key West Avenue (M-22)	80'	4
INDUSTRIAL ROADS					
I-1	-	Airpark Road	From Gaithersburg-Laytonsville Road (M-21) to Montgomery County Airpark	80'	4
I-2	-	Cessna Avenue	From Airpark Road (I-1) to 1100 feet west	80'	4
I-3	-	Beechcraft Avenue	From 400 feet west of Bonanza Way to 200 feet east of Mooney Drive	80'	4
I-4	-	Bonanza Way	From Snouffer School Road (A-16) to Beechcraft Avenue (I-3)	80'	4
I-5	-	Mooney Drive	From Snouffer School Road (A-16) to Beechcraft Avenue (I-3)	80'	4
I-6	-	Crabbs Branch Way	From Redland Road (I-10/P-7) to 2300 feet North of Shady Grove Road	80'	4
I-7	-	Gaither Road	From Gaithersburg City Boundary to Gude Drive (M-23)	80'	4
I-8	-	Research Boulevard	From Rockville City Boundary to Rockville City Boundary	80'	4
I-9	-	Redland Road	From Piccard Drive to Crabbs Branch Way (I-6)	80'	4

TABLE 7 (Cont'd.)

Project Number	Route Number	Name	Limits	Right-of-Way Width	Recommended Number of Lanes or Paving Width
PRIMARY RESIDENTIAL STREETS					
P-1	-	Warfield Road	From Wightman Road (A-36) to Gaithersburg-Laytonsville Road (M-21)	70'	24
P-2	-	Muncaster Mill Road	From Shady Grove Road (M-42) to Gaithersburg-Laytonsville Road (M-21)	70'	36
P-3	-	Emory Grove Road	From Whetstone Drive (M-25) to 2000 feet east of Gaithersburg-Laytonsville Road (P-5)	70'	36
P-4	-	Strawberry Knoll Road	From Emory Grove Road (P-3) to Centerway Road (A-275)	70'	36
P-5	MD 124, existing	Gaithersburg-Laytonsville Road	From Gaithersburg City Boundary to Gaithersburg-Laytonsville Road Relocated (M-21)	70'	36
P-6	-	Amity Drive/Amity Drive Extended	See Shady Grove Sector Plan	70'	36
P-7	-	Redland Road	See Shady Grove Sector Plan	70'	36
P-8	-	Needwood Road Extended	See Shady Grove Sector Plan	70'	36
P-9	-	Central Avenue	See Oakmont Special Study Plan	70'	36
P-10	-	Apple Ridge Road	From Watkins Mill Road (A-17) to Montgomery Village Avenue (A-295)	70'	36
P-11	-	Stedwick Road	From Watkins Mill Road (A-17), north of Club House Road, to Watkins Mill Road (M-24), south of Club House Road	70'	36
P-12	-	Briardale Road	See Shady Grove Sector Plan	70'	36
P-13	-	Miller Fall Road	From Muncaster Mill Road (P-2) to Midcounty Highway (M-83)	70'	24
P-14	-	Mill Run Drive	From Redland Road (P-7) to Park Mill Drive (South)	70'	24
P-15	-	Beauvoir Boulevard	From Mill Run Drive (P-14) to 300 feet south of Blanchard Drive	70'	24
P-16	-	Roslyn Avenue	From Redland Road (P-7) to Beauvoir Boulevard (P-15)	70'	20' Roadway
P-17	-	Taunton Drive	See Shady Grove Sector Plan	70'	24
P-18	-	Epsilon Drive	See Shady Grove Sector Plan		
P-19	-	Arrowhead Road	From Montgomery Village Avenue (A-295) to Hickory View Place	70'	36'
P-20	-	Rothbury Drive	From Arrowhead Road (P-19) to Burnt Oak Drive (A-285)	70'	36'
P-21	-	Club House Road	From Watkins Mill Road (A-17) to Montgomery Village Avenue (M-24)	70'	36'
P-22	-	Park Mill Drive	From Miller Fall Road (P-13) to Mill Run Drive (P-14)	70'	36'
P-30	-	Fieldcrest Road Extended	From Gaithersburg-Laytonsville Road (M-21) westward	70'	36'

\* Divided Arterial.



The Transportation Plan shows an interchange on the I-370 Connector between I-270 and Fields Road. This interchange will serve the Washingtonian tract and will be constructed by the developer of that tract, subject to design approval by the State Highway Administration and Montgomery County. By removing traffic from the I-370 Connector east of Fields Road, this interchange will relieve traffic conditions at the intersection of Fields Road and the I-370 Connector, which is expected to be an at-grade intersection. Should the design of the proposed interchange for the Washingtonian tract prove to be unacceptable, an interchange at Fields Road may be studied. The roadway, shown on the Plan as an arterial road but without a number, represents the road that will connect the interchange and Fields Road near Omega Drive and serve the Washingtonian tract. Both alignment and design of this road are to be determined as part of the Development Plan for the Washingtonian.

The construction of I-370 is the only feasible alternative for the provision of needed access to the actively developing Shady Grove Road area. Existing corporations will need additional traffic capacity to enable them to expand and remain in the Gaithersburg area. Additional capacity is also needed to attract desirable new industries to the Gaithersburg area. Unless the employment base can continue to expand, an increasing proportion of the real estate tax load will shift to County homeowners.

Construction of I-370 will ease traffic congestion on Shady Grove Road by providing an alternative route for through traffic. Currently, one-half of the average daily traffic on Shady Grove Road is through traffic. Without the construction of I-370, this proportion is projected to remain relatively constant over the next 25 years. By having I-370 accommodate most of the through traffic, Shady Grove Road will be able to accommodate the traffic from development on the currently vacant land in the area. Thus, this highway will serve the County by carrying more than just the peak-hour, Metro station-related traffic.

The approved I-370 alignment extends westward to Great Seneca Highway. This extension is needed to provide access for Metro-oriented traffic, as well as that destined for I-270 from MD 28 and the Fields Road/Muddy Branch Road area.

#### Intercounty Connector (ICC)/Rockville Facility (RF)

The 1971 Gaithersburg Vicinity Master Plan moved the alignment of the Outer Beltway northward to the Shady Grove Area. Later, upon determination by Virginia jurisdictions that no such road would be needed south of the Potomac River, the alignment west of I-270 was deleted, resulting in redesignation of the road as the ICC/RF between I-270 and I-95 in Prince George's County.

The master-planned alignment of the ICC/RF includes the master-planned alignment of the I-370 highway. The ICC/RF endorsed in this Plan extends from Great Seneca Highway to the Baltimore-Washington Parkway in Prince George's County. It would not be built to interstate highway standards but it would be a limited access highway. This Plan has deleted the planned link between MD 28 and Great Seneca Highway because Muddy Branch Road is a parallel roadway, considered to be an adequate alternative.

The Maryland Department of Transportation (MdDOT) recently studied several alternative alignments in its study of the ICC/RF, including the "no-build" alternative. A preferred alternate was selected (Alternate G) and the State Highway Administration will seek location approval for this alternate. The

construction of this highway is important in terms of providing a direct link between the manufacturing and research and development activities in the I-270 Corridor with the markets and suppliers in the Baltimore-New York corridor and with the facilities at BWI Airport. Other benefits of a new east-west highway such as the ICC/RF include:

- diversion of through traffic from local roads;
- provision of increased mobility for residents of the County and the region;
- reduction of congestion on other major roads, particularly I-270 and the Capital Beltway (I-495); and
- support for future master planned development in Gaithersburg, Germantown, and Clarksburg.

#### Great Seneca Highway

The proposed Great Seneca Highway, previously referred to as the Western Arterial, will extend from Middlebrook Road in Germantown south to Ritchie Parkway at MD 28. This highway would provide a parallel route to I-270 between Gaithersburg and Germantown. It will enable residents of the two "corridor cities" to take advantage of the employment opportunities in either area without adding further to the congestion on I-270 or MD 28 west of I-270. Residents in Germantown and in the Quince Orchard area will easily get to the Shady Grove Metro station via this highway and I-370. With the link to Ritchie Parkway, employment opportunities in Gaithersburg and Germantown will also become more accessible to residents in Rockville. Accordingly, construction of this highway is essential to the land use recommendations of this Plan as well as the Germantown Master Plan.

#### Goshen Road

Improvements are recommended from Oden'hal to Snouffer School Roads. These may include the reduction of horizontal and vertical curves, improvement of intersections, and widening. This highway is anticipated to be heavily used by traffic generated from several major developments along its length, as well as major residential development of Montgomery Village East, north of Snouffer School Road and east of Goshen Road. The transportation analysis for this Plan indicates the need for such improvements.

#### Proposed Airpark Road Extended (A-268)

The Plan recommends that a new arterial road (Airpark Road Extended) be provided from MD 124 to Shady Grove Road Extended. This road is needed to accommodate the proposed development in the Airpark area. It will also alleviate congestion on Muncaster Mill Road and its intersection with MD 124.

#### Maryland 28

The section of existing MD 28 between the future Great Seneca Highway and the future Key West Avenue (at its eastern terminus) has been classified as an arterial roadway (A-296) with a recommended width of two to four lanes. The Planning Board recommends that the ultimate width of existing MD 28 should be

studied as part of the State Highway Administration's project planning of MD 28. This Plan supports the construction of Key West Avenue as relocated MD 28 with existing MD 28 to be a less important roadway.

Many highways endorsed by this Plan are already planned or programmed for construction. The Technical Appendix describes these roadways and their anticipated completion dates. They include:

- Construction of Key West Avenue (MD 28 Relocated)
- Improvements to MD 124/I-270 Interchange
- Improvements to Shady Grove Road/I-270 Interchange
- Improvements to Shady Grove Road
- Replacement of MD 355 bridge over the B&O Railroad
- Construction of Midcounty Highway (Eastern Arterial)
- Construction of Great Seneca Highway
- Upgrading of Quince Orchard Road (MD 124) between Clopper Road and MD 28
- Improvement and realignment of Muddy Branch Road between MD 28 and MD 117

The Recommended Highway Plan map shows the ultimate highway system just as the Land Use Plan describes the ultimate development pattern. This Plan, as every master plan, relies upon the Adequate Public Facilities Ordinance and the Comprehensive Staging Plan to stage new development to the provision of needed roads. In addition, this Plan has another staging element that is designed to provide a closer timing control between new development and the construction of the roads needed to accommodate the traffic generated by that development.

Highway Cross Sections are shown in figure 28.

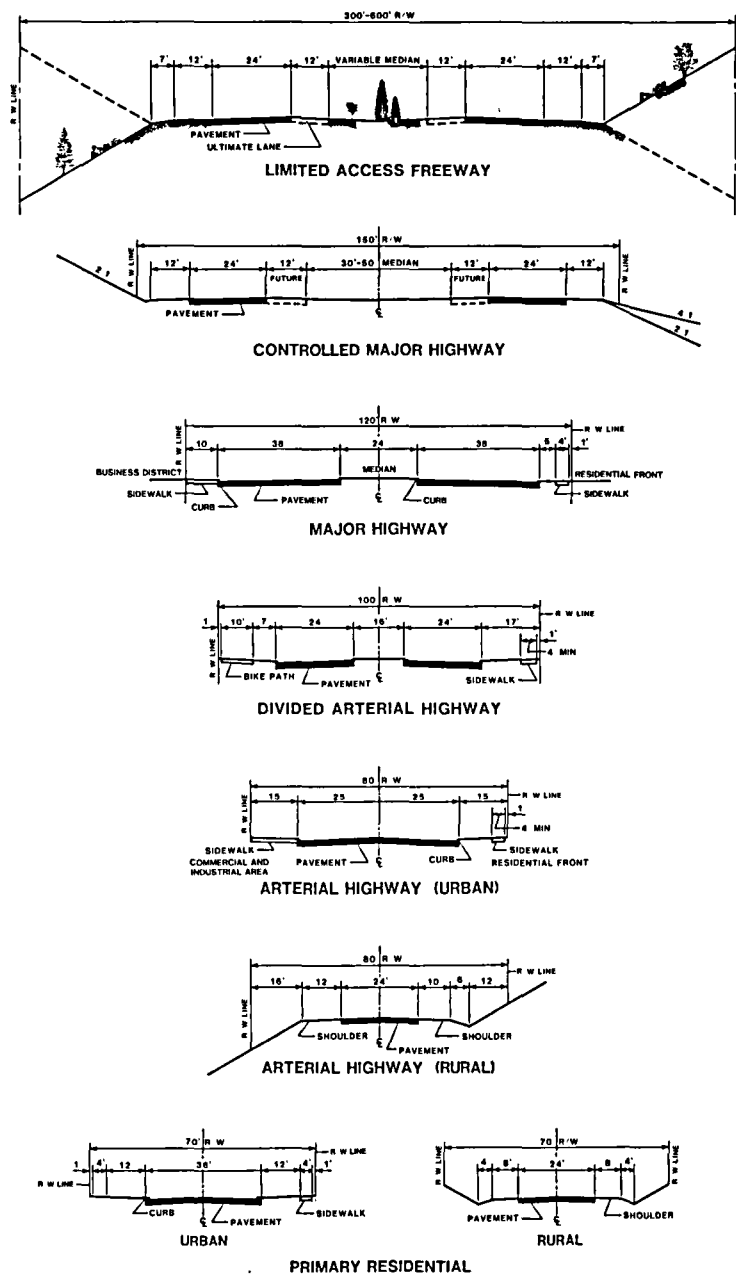
## MASS TRANSIT RECOMMENDATIONS

The Shady Grove Metro station represents the first major component of the mass transit system needed to support development of the I-270 Corridor, as envisioned in the General Plan. By providing a viable and attractive transportation alternative, it will also contribute to the realization of various energy and environmental policy goals.

The components of the Mass Transit Plan include commuter rail, Metro, transit easements, and bus service.

### Commuter Rail

Commuter rail provides a viable alternative to the automobile. Commuter rail service is currently provided to area residents from the Gaithersburg station in the "Olde Towne" area and from the station within the town of Washington Grove. About 700 patrons use this commuter rail service daily. The Plan recommends that commuter rail service be continued and that an additional station be provided at Metropolitan Grove Road. This service will enable local residents using the rail line to have access to Metro by transferring at the Rockville or Silver Spring stations. Should the Silver Spring commuter rail station be relocated closer to the Metro station, the commuter rail line would form a cross-County link between the two arms of the Metro Red Line. An intermodal (Metro/ commuter rail) terminal at Silver Spring is one option being evaluated by the MdDOT, but there are no specific plans for such a project at this time.



## HIGHWAY CROSS SECTIONS

## Metro

The Metro system to the Shady Grove station opened in December 1984. At issue is the ability of potential riders to utilize the parking facilities planned for 3,000 cars at the Metro station. Of the programmed service roadways, only the widening of Shady Grove Road to six lanes was complete by that date. The completion of the programmed portion of Midcounty Highway and the MD 355 bridge over the B&O Railroad tracks within the city of Gaithersburg will follow the opening of the Shady Grove Metro station.

The portion of the Midcounty Highway between Montgomery Village Avenue and Goshen Road and between MD 124 and Shady Grove Road was complete by the time Metro service began. Without the central portion, the Midcounty Highway traffic must divert from Midcounty Highway to Emory Grove Road in order to reach Shady Grove Road and access to the Metro station. The extension of Centerway Road to Snouffer School Road, which was opened to traffic in October 1984, will alleviate some of the short-term congestion related to the Metro-oriented commuter traffic.

The MD 355 bridge over the B&O Railroad tracks was under construction when Metro service began. The recently completed, five-lane segment to the north and the six-lane segment to the south were in service. Traffic will be maintained during construction either over the two-lane bridge or by an at-grade crossing. Otherwise, traffic will utilize alternative routes through the "Olde Towne" section of the city of Gaithersburg at the rail crossing on South Summit Avenue. The Plan strongly recommends that the highways necessary to provide adequate access to the Metro station be completed at the earliest possible date.

## Transit Easement

Although there is no current plan to extend Metro service beyond the Shady Grove station, it is important to retain a right-of-way for future bus or rail extension through Gaithersburg to Germantown, and possibly to Clarksburg, should it be determined that Metro or other transit alternatives are feasible. The proposed alignment is shown in figure 27. The Plan recommends that this right-of-way be kept available for such an extension through the Gaithersburg area.

## Ride-On

Public bus transit service is currently provided in the Gaithersburg area by the County's Ride-On system. The system has been incrementally expanded, including more frequent service, new routes, and extension to begin serving the Germantown area. The system connects with Metrobus service in Rockville. When Metro opens, additional area bus service should be added and existing routes should be modified to serve the Shady Grove Metro station. The bus restructuring plan for these changes is currently being considered by the County. Public forums were held in the Fall of 1982 and further community meetings were held through 1983. Final hearings and service decisions occurred in mid-to-late 1983. Successful implementation of the economic development opportunities in this area will require a major increase in Ride-On or Metrobus service in order to provide an attractive alternative to automobile commuting.

## BIKEWAY PLAN RECOMMENDATIONS

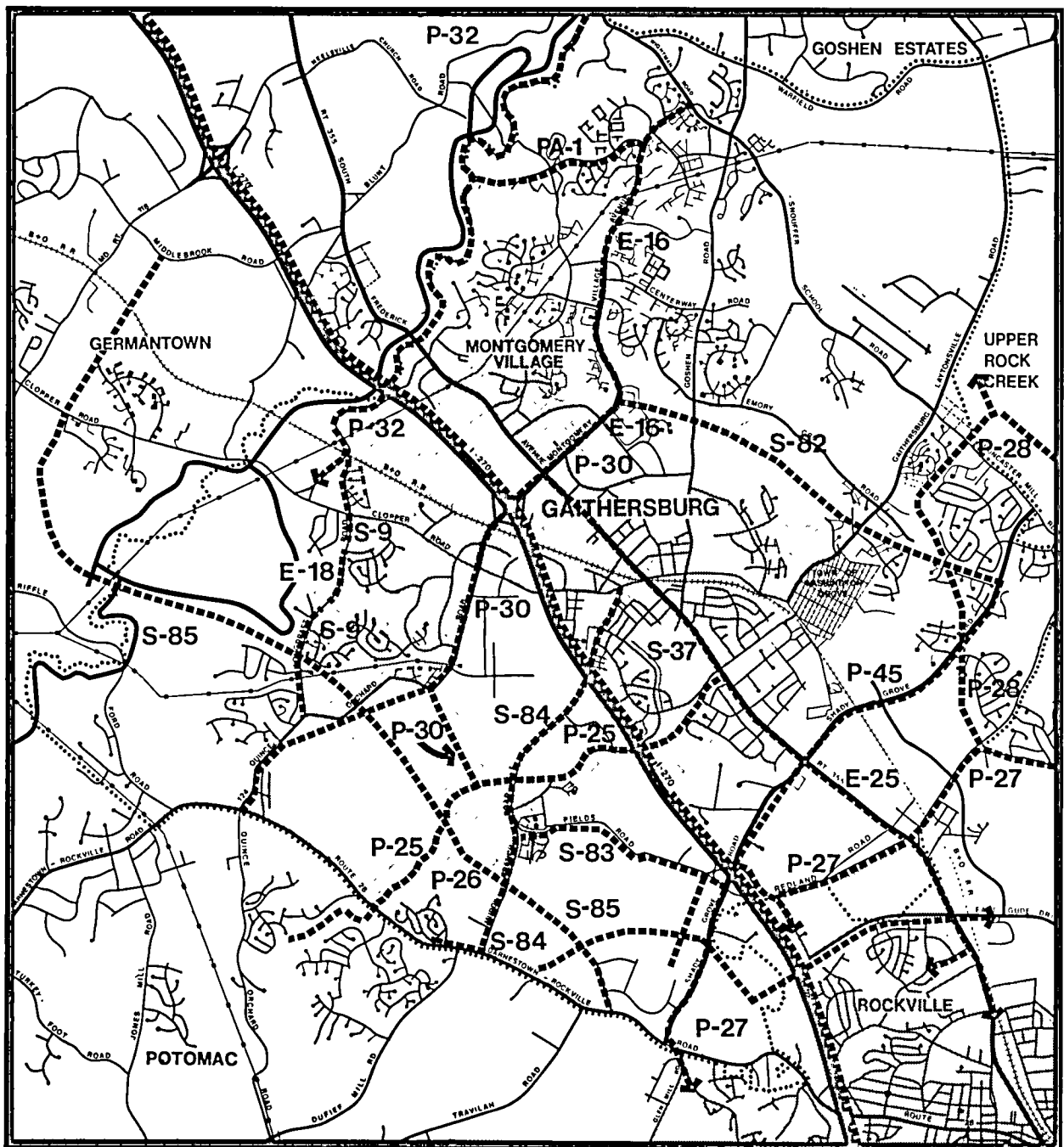
The bikeway recommendations of this Plan reflect the 1980 Montgomery County Master Plan of Bikeways. This Plan proposes two changes to the Master Plan of Bikeways. The first change is the deletion of that portion of Route P-32 which is proposed to traverse a golf course. A new bikeway (PA-1) is proposed instead; it will follow an existing street (Apple Ridge Road) and will provide a better connection between Montgomery Village Avenue and Seneca Creek State Park. The second change is a new alignment for P-83 along Fields Road. This Plan proposes to make Fields Road discontinuous at I-370. The bikeway should follow Fields Road (west of I-370) proceed north along I-370 to become part of the road system serving the Washingtonian tract and rejoin Fields Road in the vicinity of Omega Drive.

The proposed location of bikeways is shown in figure 29.

## EQUESTRIAN TRAILS SYSTEM

There are a number of equestrian trails in Montgomery County which have been established and maintained by user groups on an informal basis. Figure 29 displays the general locations of a portion of this existing equestrian system. The trail shown is an important link between the Goshen and Damascus area and Seneca Creek State Park. Both the equestrian trail and one of the bikeways have to cross I-270 and MD 355. By coordinating the engineering of each crossing, the two trails can be safely accommodated. If the crossing is to be an underpass, the main thing to consider is that a horse and rider are taller than a bicycle and rider. If the crossing is to be an overpass, the approach or ramp becomes the critical factor.

The continued use and enjoyment of these trails is being threatened by future development. Therefore, this Plan recommends that an attempt be made to accommodate these trails as development occurs. Section 50-30 of the Subdivision Regulations was amended in 1982 to provide that the Planning Board, through subdivision process, may require dedication to public use of rights-of-way or platting of easements for equestrian trails. The Plan recommends further that those portions of the equestrian system located on public lands be continued with appropriate regulations and user group maintenance.



## BIKEWAYS AND EQUESTRIAN TRAILS

..... Planning Area Boundary

□ Municipalities

### NOTE:

Bikeways Shown in Conjunction  
With Roadways Are Not in All Cases  
Designated by a Project Number

..... Bikeways

E Existing

S Programmed

P Planned

PA Proposed (Planning Area)

— Proposed Equestrian Trail

Master Plan of Bikeways Designation

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Fig. 29

TABLE 8  
GAITHERSBURG VICINITY BIKEWAYS

EXISTING BIKEWAYS						
Project #	Name	Location	Classification	Length (miles)	Condition	Jurisdiction
E-16	Montgomery Village Ave.	Lost Knife Road Wightman Road	Class I (sidewalk)	2.5	Asphalt and Concrete: Unsigned	County DOT
E-18	Longdraft Road	Seneca Creek State Park	Class I	0.3	Asphalt	County DOT
PROGRAMMED BIKEWAYS						
Project	Name	Location	Classification		Jurisdiction	Remarks
S-37	Frederick Ave. MD 355	Shady Grove to Montgomery Village Avenue	Class I (sidewalk)		MdDOT	CIP Road Project
S-83	Fields Road	Muddy Branch to Omega Drive	Class I		MCDOT	CIP Road Project
S-84	Muddy Branch Road	MD 28 to MD 117	Class I		MCDOT	CIP Road Project
S-85	Great Seneca Highway	MD 28 to Middlebrook Road	Class I		MCDOT & MdDOT	CIP Road Project
S-82	Midcounty Highway	Shady Grove Road to Montgomery Village Avenue	To Be Determined		MCDOT	CIP Road Project
PROPOSED BIKEWAYS						
P-25	Muddy Branch	Turkey Foot Road to Fredrick Avenue	Class I		M-NCPPC	
P-27	Shady Grove Access	Needwood Road from Rock Creek to Redland then south to Metro station then south to Shady Grove Road at I-270, thence south via Shady Grove Road to MD 28	Class II & To Be Determined		MCDOT	
P-28	Shady Grove North Access	Linear open space from Redland Road at Need- wood Road north to Rock Creek at Muncaster Road	Class I		M-NCPPC/ MCDOT	
P-30	Quince Orchard Road MD 124	MD 355 to Muddy Branch Park via Quince Orchard Road and linear open space	Class I		MCDOT/ MdDOT	
P-45	Shady Grove	MD 115 (Muncaster Mill Road) Fields Road	Class I or II		MCDOT	CIP Road Project
PA-1	Apple Ridge Road	Montgomery Village Avenue to Seneca State Park	To Be Determined		MCDOT/ Developer	
	I-270	MD 127 to I-270 split	Class I		MdDOT	CIP Road Project
	Quince Orchard Road	MD 28 to MD 117	-		MCDOT	
	Key West	MD 28 to Gude Drive	-		MCDOT	

SOURCE: Master Plan of Bikeways, Montgomery County, Maryland, April 1980.



# Community Facilities

Public community facilities, such as schools and parkland, should be adequate to serve the population projected by this Plan.

This chapter describes several existing and planned community and public facilities in the Gaithersburg area. The major conclusions are:

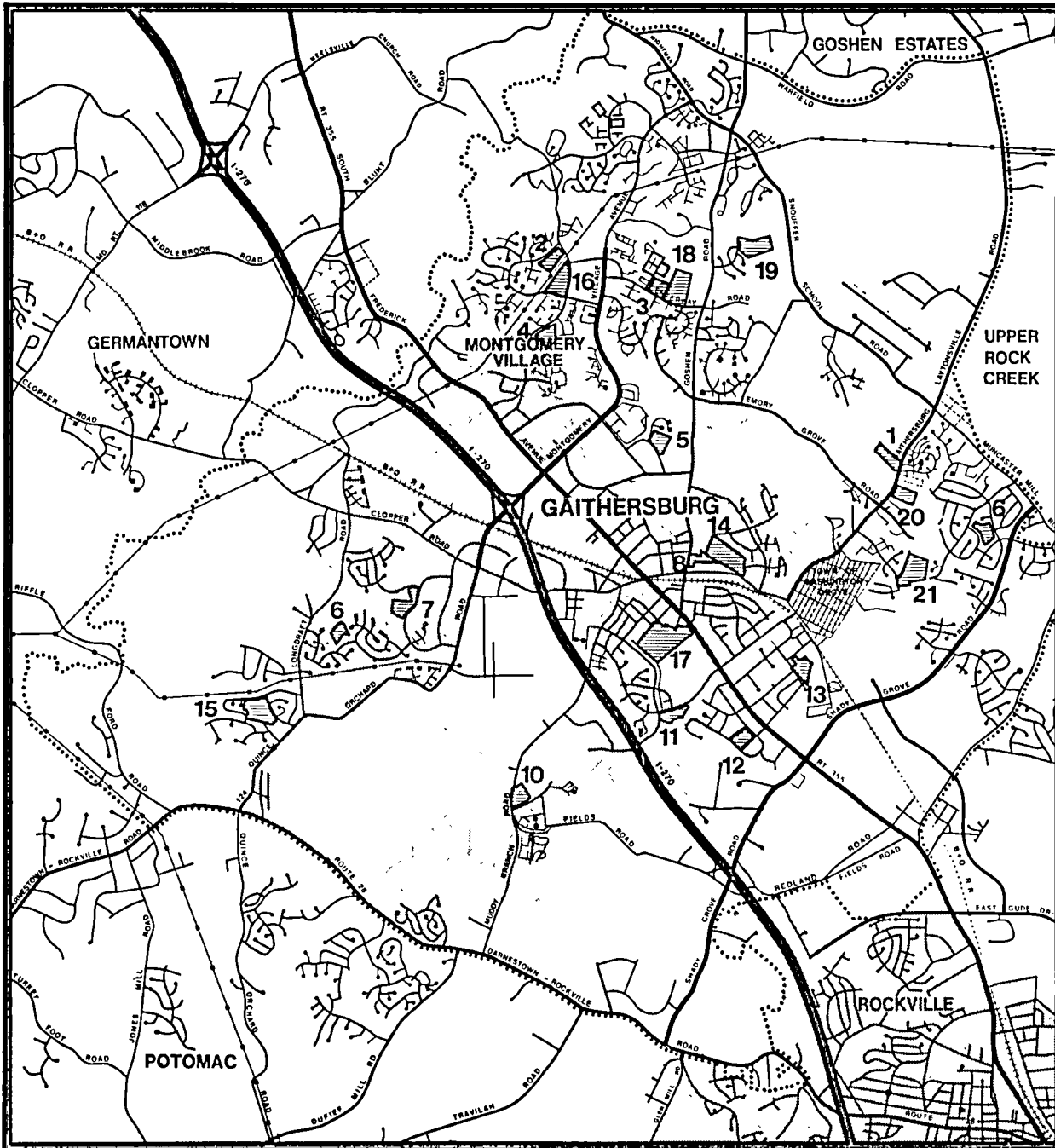
- Except for ballfield recreational areas, the Gaithersburg area generally has adequate park and recreational facilities to serve both the existing population and that anticipated with approved subdivisions.
- The number of future school sites shown on the 1971 Gaithersburg Vicinity Master Plan should be reduced.

## GOALS AND GUIDELINES

- Provide community facilities which promote the health, safety, and welfare of a variety of users including the elderly, the handicapped, and children.
- Provide conveniently located parks and other facilities for both active and passive recreation to meet the needs and interest of various segments of the community.
- Promote access to recreational opportunities and facilities.
- Provide appropriate facilities to meet the general and specialized educational needs of area residents.

## PUBLIC SCHOOLS

The Land Use Plan's recommendation concerning future school sites reflects the Board of Education's (BOE) 15-Year Comprehensive Plan for Education



## EXISTING AND FORMER SCHOOL SITES



**MUNICIPALITIES**

**PLANNING AREA  
BOUNDARY**

**SPECIAL SCHOOL**

1. Longview

**ELEMENTARY SCHOOLS**

2. Stedwick

3. Whetstone

4. Watkins Mill

5. South Lake

6. Diamond

7. Brown Station

8. Gaithersburg

9. Mill Creek Towne

10. Fields Road

11. Summit Hall

12. Rosemont

13. Washington Grove

**JUNIOR HIGH SCHOOLS**

14. Gaithersburg

15. Ridgeview

16. Montgomery Village

**HIGH SCHOOLS**

17. Gaithersburg

**FORMER SCHOOL SITES**

18. Stewarttown

19. Charlene

20. Emory Grove

21. Muncaster

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**Fig. 30**

Facilities. The Board of Education's demographic projections show a continued decline in the school-age population in Montgomery County as a whole throughout the 1980's. These projections are consistent with the Planning Board's growth forecast model. Based on these projections, the planned number of school sites indicated on the proposed Land Use Plan Map (see foldout map) has been significantly reduced from the 1971 Gaithersburg Vicinity Master Plan.

Four school sites in Gaithersburg have been declared surplus or unneeded (see figure 30). The future use of these sites is a major land use concern. Although any recommendation of the use of former school sites must go through a separate review procedure by the County government, the County Council has analyzed the potential land use of these sites as part of the planning process. The recommendations for disposition of surplus sites are as follows:

Charlene Elementary (10 acres)

This site is located east of Goshen Road and is the school portion of a previously designated park school site. According to the BOE staff, due to lower pupil yields from development and a slower pace of development, the site is no longer needed. This Plan recommends continuation of R-90 zoning and recommends the site should be considered for a park, since it is adjacent to an undeveloped local park site. The site is wooded and could provide an important recreational area to the surrounding townhouse and single-family development. The school site was dedicated to public use as part of a cluster subdivision and, therefore, cannot be used for housing.

Emory Grove Elementary (14 acres)

This site is located east of MD 124 near Emory Grove Road and has been conveyed to the County. This Plan recommends that the site be used for market rate housing (R-60/TDR-6) and for a small local commercial area (C-1 Zone). Recreational facilities are currently available at the Emory Grove Local Park directly across MD 124. (See Land Use and Zoning Recommendations Chapter, Non-contiguous Parcels, for additional information.)

Muncaster Junior High (20 acres)

This site is located on Taunton Drive west of MD 124, near the proposed Midcounty Highway in the Mill Creek Towne community. It was once the proposed location of the Upper County Community Center and Swimming Pool complex, now located at the northwest quadrant of MD 124 and Emory Grove Road. The site is situated between Gaithersburg Junior High and Redland Middle School. According to the BOE staff, the location of the Muncaster site relative to the other schools and the eventual conversion of Gaithersburg Junior High School to a two-grade intermediate school eliminate the need for retaining this site. The Plan recommends that the site be used for non-assisted housing. It is not suitable for assisted housing due to the dominance of that type of housing in the immediate area. The Plan recommends continuation of the parcel's existing R-90 zoning, with an option to increase density to six units per acre through the TDR program (TDR-6).

Stewartown Junior High (20 acres)

This site is located on Centerway School Road adjacent to Montgomery Village. According to the BOE staff, lower pupil yields from residences in the

service area and a slower pace of development indicate that it will not be needed. The Plan recommends continuation of the R-90 Zone, and recommends that the site be developed as an active (field sport) recreation area for the residents of the communities in and adjacent to Montgomery Village. The site should be transferred to the M-NCPPC Parks Department and included in the Capital Improvements Program (CIP) for funding, design, and construction.

Since schools provide important community recreation facilities, when a school site is declared surplus its suitability for a local-use park should be given serious consideration. Additionally, as fewer schools are being constructed, there is a greater demand for parks to provide public active recreation facilities. This Plan recommends utilization of four undeveloped school sites (Strawberry Knoll, Blueberry Hill and Charlene Elementary Schools and Stewartown Junior High School) for recreational purposes. The latter two sites have been declared surplus.

## PARK AND RECREATION FACILITIES

Park and recreation facilities to serve Gaithersburg residents are provided by public parks, schools, and private recreation facilities. Residents are served by facilities within the Gaithersburg Vicinity Planning Area as well as facilities located in areas immediately adjacent to it.

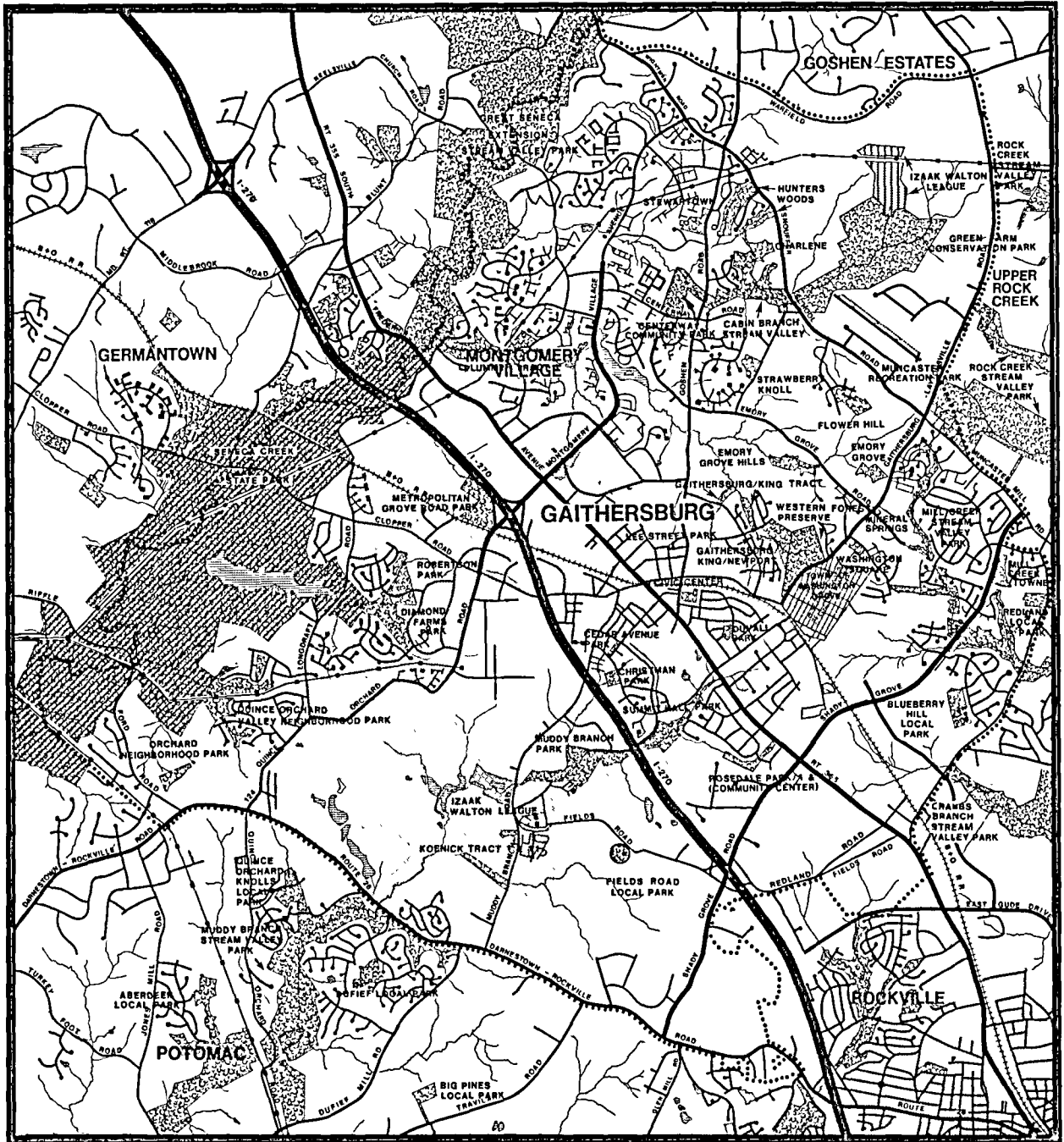
Parkland within the Gaithersburg area is provided by several separate agencies or jurisdictions: the city of Gaithersburg, and the town of Washington Grove, which provide parks and recreation areas within their corporate limits; the M-NCPPC; the Montgomery Village Foundation; and the state of Maryland. Existing and planned public parkland is shown in figure 31.

Parks in the Gaithersburg area serve both active and passive recreation needs. There are approximately 1,260 acres of M-NCPPC parkland in the Planning Area. Approximately 90 percent of the acreage is in stream valley and conservation parkland, with the remainder in local-use parks.

Passive recreation is provided primarily by stream valley and conservation parks. These parks are predominantly undeveloped, but may contain a few picnic/playground areas and trails. The 200-acre Green Farm Conservation Park will eventually serve as a historic, interpretive, conservation center. The Seneca Creek State Park follows Great Seneca Creek. The M-NCPPC owns the land upstream from MD 355 and the state of Maryland owns 5,600 acres along both sides of Great Seneca Creek, downstream from MD 355, to the Potomac River. A lake, built on Long Draught Branch in the state park, provides water-oriented recreational opportunities.

Local parks provide active recreation opportunities for Planning Area residents. These parks contain a variety of recreation facilities, ranging from picnic/playground areas to courts and ballfields (see table 9). In the Gaithersburg Vicinity Planning Area, there are six existing local parks, one under construction, and seven proposed for acquisition or construction over the next few years. Several parks in the Potomac area also serve the residents living close to MD 28 in the Gaithersburg Vicinity Planning Area.

The 1978 Park, Recreation and Open Space Master Plan (PROS) suggests that the community park concept be utilized wherever feasible to increase the flexibility of recreation programming and to decrease park maintenance costs.



## PARKS

..... Planning Area Boundary

□ Municipalities

▨ State

▤ Municipal

▤ Existing M.N.C.P.&P.C.

▤ Proposed M.N.C.P.&P.C.

▤ Izaak Walton League Conservation Area

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 **NORTH**

**Fig. 31**

TABLE 9  
EXISTING AND PLANNED PUBLIC PARKLAND AND PARK FACILITIES  
IN THE GAITHERSBURG VICINITY AREA

Name	Current Acreage	Ultimate Acreage	Comments
<b>LOCAL USE PARKS</b>			
<u>Developed or Under Construction</u>			
Emory Grove Local	9.9		Open shelter, picnic area, playground equipment, baseball field, lighted basketball court, two lighted tennis courts.
Mill Creek Town Local	9.7		Playground equipment, softball field, multi-use court.
Quince Orchard Valley Neighborhood	41.5		Community building, open shelter, playground equipment, lighted basketball court, two lighted tennis courts, playfield, hiker-biker path.
Washington Square Neighborhood	5.0		Open shelter, playground equipment, two basketball courts, two tennis courts, playfield.
Stewartown Local	13.0		Lighted tennis courts, picnic area playground equipment, softball field, lighted basketball court.
Blueberry Hill Local	2.0		A recreation shelter, athletic fields, tennis courts, play equipment.
Strawberry Knoll Community	10.6		Two athletic fields, tennis courts, play equipment. A soccer field has also been proposed for construction on the adjacent school site.
<u>Planned Acquisition and/or Development</u>			
Charlene Local Park	10	20	This proposed community park would be developed on a dedicated park school site. The Board of Education does not anticipate the need for the school site. Development may include: shelter, athletic field, play equipment, picnic area and trails.
Orchard Neighborhood Park		11+	This park could include play equipment, picnic area.
Fields Road Local	10		Development may include: athletic fields, courts, play equipment.
Flower Hill Local	4.6	9.8	Development may include: athletic fields, tennis courts, multi-use courts, play equipment, hiker-biker path.
Redland Local	10.0		Development include: athletic field with lighted parking, lighted tennis courts, lighted multi-use courts play equipment.
Centerway Community Park (Stewartown Jr. High School Site)			Development may include: athletic fields, courts, etc.

TABLE 9 (Cont'd.)

Name	Current Acreage	Ultimate Acreage	Comments
<u>STREAM VALLEY PARKS</u>			
Great Seneca Extension Community Park*	826*	846*	Facilities could include: play equipment, tennis courts, athletic fields, equestrian and hiker-biker trails.
Cabin Branch	71		Development may include: hiker-biker paths, picnic areas, picnic shelters, playground equipment.
Mill Creek	44		None.
<u>CONSERVATION PARKS</u>			
Green Farm	204		Restoration of an historic house to eventually serve as an historic interpretive conservation center.
<u>RECREATIONAL PARKS</u>			
Gude Drive**	161		This facility is currently a landfill which is to be converted to a park which may include: athletic field, archery ranges, picnic areas, amphitheatre, astronomy study area and hiker-biker trail.
Muncaster**	105		Future facilities may include: ballfields, picnic areas, playground equipment.

\* This park is located on the boundary of the Gaithersburg Vicinity Planning Area. Acreage listed is for the portion of the park near Gaithersburg.

\*\* Site is located outside Gaithersburg Vicinity Planning Area, but proposed facilities are intended to also serve Planning Area residents.

Note: Budget constraints may necessitate a deferral in construction of proposed parks.

Community parks are larger than local parks and contain more programmable facilities. There are three potential community park sites in the Gaithersburg area, two of which are dependent on utilization of undeveloped school sites. They are the proposed Strawberry Knoll, Centerway, and Great Seneca Extension Community Parks.

## FUTURE PARK NEEDS

New park and recreation facilities are needed to serve the additional population proposed in the Gaithersburg Area. As few new schools will be constructed, a greater burden is placed on public parks and private developments to supply future recreation needs.

### Local Park Needs

The need for future local park facilities was estimated in the 1978 PROS Plan. These needs have been projected to the year 1990. Projections indicate that approximately six additional tennis courts and six additional ballfields will be needed by 1990 for the Planning Area. As local facilities for residents of the city of Gaithersburg are provided by the city, these estimates only apply to the population outside the city limits.

Facility needs for 1990 could be met as follows:

	<u>Tennis Courts</u>	<u>Ballfields</u>
Charlene Local Park	0	1
Redland Local Park	2	1
Strawberry Knoll Local Park	2	1
Flower Hill Local Park	2	1
Stewartown Site (Centerway Park)	0	2
TOTAL	6	6

The timing of park development is coordinated as much as possible with housing development. Parks in the northern portion of the Gaithersburg Vicinity Planning Area are scheduled for construction between now and 1990 as much of the housing in this area is either already in existence or under development. Budget constraints, however, may necessitate a deferral in construction of these parks.

An additional local park in the Shady Grove West Study Area is also proposed for acquisition and development after 1989. The timing of this park may be accelerated if development of housing in the area south of Fields Road occurs earlier.

The need for unprogrammed neighborhood parks<sup>1</sup> is not quantitatively analyzed by the updated PROS Plan. However, it does recommend that acquisition of neighborhood parks adhere to the following criteria:

In new areas of housing construction, developers should be encouraged to provide sufficient private neighborhood areas and facilities, so that no additional public neighborhood park need be purchased.

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<sup>1</sup> Neighborhood parks are small parks that provide informal recreation opportunities and do not have programmable ballfields.



Dedication of neighborhood parks may also be accepted provided the site is suitable for the development of neighborhood recreation facilities and does not pose exceptional maintenance problems.

This Plan recommends that these criteria be followed with respect to neighborhood parks in the Gaithersburg Vicinity Area. The Plan proposes one neighborhood park in the Smokey Glen Study Area.

#### Non-Local Park Needs

Two recreational parks (Gude and Muncaster) will be constructed adjacent to the Planning Area and will serve Gaithersburg Vicinity residents. These parks will provide a large number of active recreation facilities (such as ballfields) to help meet County-wide needs. They will also include other specialized facilities, such as an adventure playground and an archery range.

Additional stream valley park needs include completion of land acquisition in the Cabin Branch, Great Seneca, and Mill Creek Stream Valleys.

#### Private Recreation Facilities in Developing Areas

Housing developers have an obligation to see that the recreation needs of future residents are met by either existing or proposed public parkland, private recreation facilities within the development, or by dedication of land suitable for future park development.

The development of private open space areas to service various age groups can be done relatively inexpensively by encouraging the provision of sitting areas, pathways, open play areas, and playgrounds in attractive open spaces.

Large office and commercial complexes should provide amenities for their employees and customers. These may include, for example, landscaping, sitting areas, and outdoor places to eat a bag lunch.

#### Montgomery Village Recreation and Open Space Facilities (1980)

Substantial recreation and park facilities are available to residents of Montgomery Village by virtue of automatic membership in the Montgomery Village Foundation. With the exception of school site facilities, all were built by the developer and are maintained, at no cost to the County, by the Montgomery Village Foundation. It is important that at least a portion of each undeveloped school site in the Village be transferred to the Montgomery Village Association for field sport recreation, if the site is not needed for school construction. For example, the ballfield site on Apple Ridge Road should be retained by the Association even if a portion of the site is ultimately used for non-school purposes.

#### Upper County Community Center and Outdoor Pool Complex

A regional facility complex composed of a community center and a 50-meter outdoor pool is located at the northwest quadrant of MD 124 and Emory Grove Road. The complex includes: a gymnasium, social hall, multi-purpose room, meeting space, and a weight and exercise room. Recreational, social, and educational programming are sponsored by the Montgomery County Department of Recreation. In addition, a bike path is proposed for a portion of MD 124. The bike path will provide pedestrian access to the community center and pool. Day care

facilities may also be provided in the future.

#### Other Community Facilities

Other community facilities are also important to the life of the community. The County library system has four regional libraries. The largest and newest is in Gaithersburg. It is also the reference branch for fine arts and performing arts. This facility should adequately serve the projected needs of the community.

The Gaithersburg Health Center, which includes a mental health office and children's center, is presently located in temporary, rented quarters in the Gaithersburg Square Shopping Center. A permanent location for the health center will be proposed after further study. A conceptual project is recommended in the adopted FY 1984-1990 CIP for an approximately 30,000-gross-square-foot, County-owned office and clinic space. The facility is to be located in an area accessible to public transportation in central or northern Gaithersburg. Agencies housed in the new facility will include health, social services, labor services (family resources), and others as appropriate. If need arises in the future, the new facility will be upgraded to form part of a regional community service center.

The Shady Grove Life Sciences Center complex is located at Shady Grove Road and MD 28. This 207-acre complex, when completed, will contain a variety of public and private hospitals and institutions. A more complete discussion of the Life Sciences Center is contained in the Land Use and Zoning Recommendations Chapter.

# Environmental Concerns

The Plan for the Gaithersburg Vicinity Area reflects an analysis of environmental constraints and assets. The components of the analysis include soil conditions, water quality and quantity, noise attenuation, energy efficiency, and water and sewer systems. The results of site specific analyses are incorporated in the Land Use and Zoning Recommendations Chapter, and additional background information is contained in the Technical Appendix.

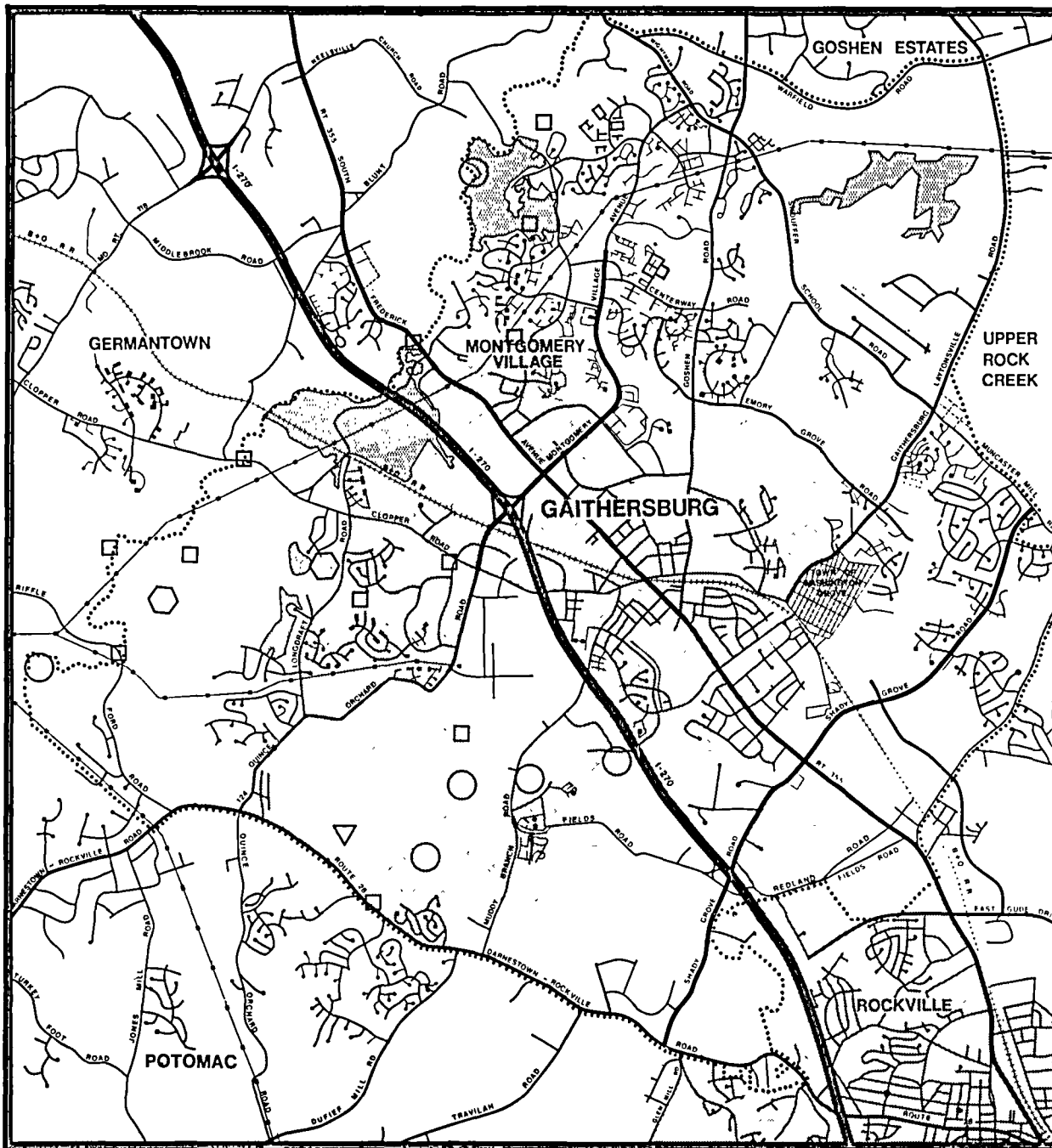
## GOALS AND GUIDELINES

To protect and preserve the area's natural and environmental resources, this Plan recommends the following:

- Maintain the Planning Area's natural features, particularly stream valleys and other environmentally sensitive areas.
- Maintain the recreational and scenic qualities along Great Seneca Creek.
- Assess and control the environmental impacts of development to preserve natural features and ecological quality.
- Provide a system of stormwater management facilities in developing areas.

## ENVIRONMENTALLY SENSITIVE AREAS

Areas which are considered "environmentally sensitive" due to their sensitivity or lack of adaptability to man-made or natural changes are shown in figure 32. The headwaters portion of a stream basin is generally considered to be the most environmentally sensitive. Development in headwater areas can magnify water pollution and flooding impacts at downstream locations. The Planning Area includes the headwater portions of the following streams: Cabin Branch, Whetstone



## ENVIRONMENTALLY SENSITIVE AREAS

..... Planning Area Boundary

□ Municipalities

### SOURCE:

Seneca Creek/Muddy Branch Functional Plan  
And Associated Inventories

□ Fish Sampling Stations

○ Wildlife Habitat

▽ Water Fowl Sanctuary

⬡ Unique Vegetation

■ Mature Woodlands

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**Fig. 32**

Run, Long Draught Branch, Rock Creek, Muddy Branch, Piney Branch, and Watts Branch. Wherever possible, lower development densities are recommended for these areas.

As a "corridor city," Gaithersburg can expect additional residential and commercial/office development. However, only land uses utilizing best management practices are considered acceptable from an environmental perspective in these sensitive areas. Any relaxation in the application of these practices would adversely affect stream quality.

Environmentally sensitive areas also include aquatic and wildlife habitat, wetlands, mature woodlands, and unique vegetation. Both the Functional Master Plan for Conservation and Management in the Seneca Creek and Muddy Branch Basins (referred to as Functional Plan) and Seneca Phase II Watershed Study indicate various major areas recommended for protection. These recommendations are incorporated by reference in this Plan and are generally reflected in the recommendations in the Land Use and Zoning Recommendations Chapter.

### Stormwater Management Recommendations

The recommendations in the Functional Plan use both the preventative approach--which manages the watershed to prevent problems before they occur--and the remedial approach--which attempts to solve existing problems. The Functional Plan includes such recommendations as:

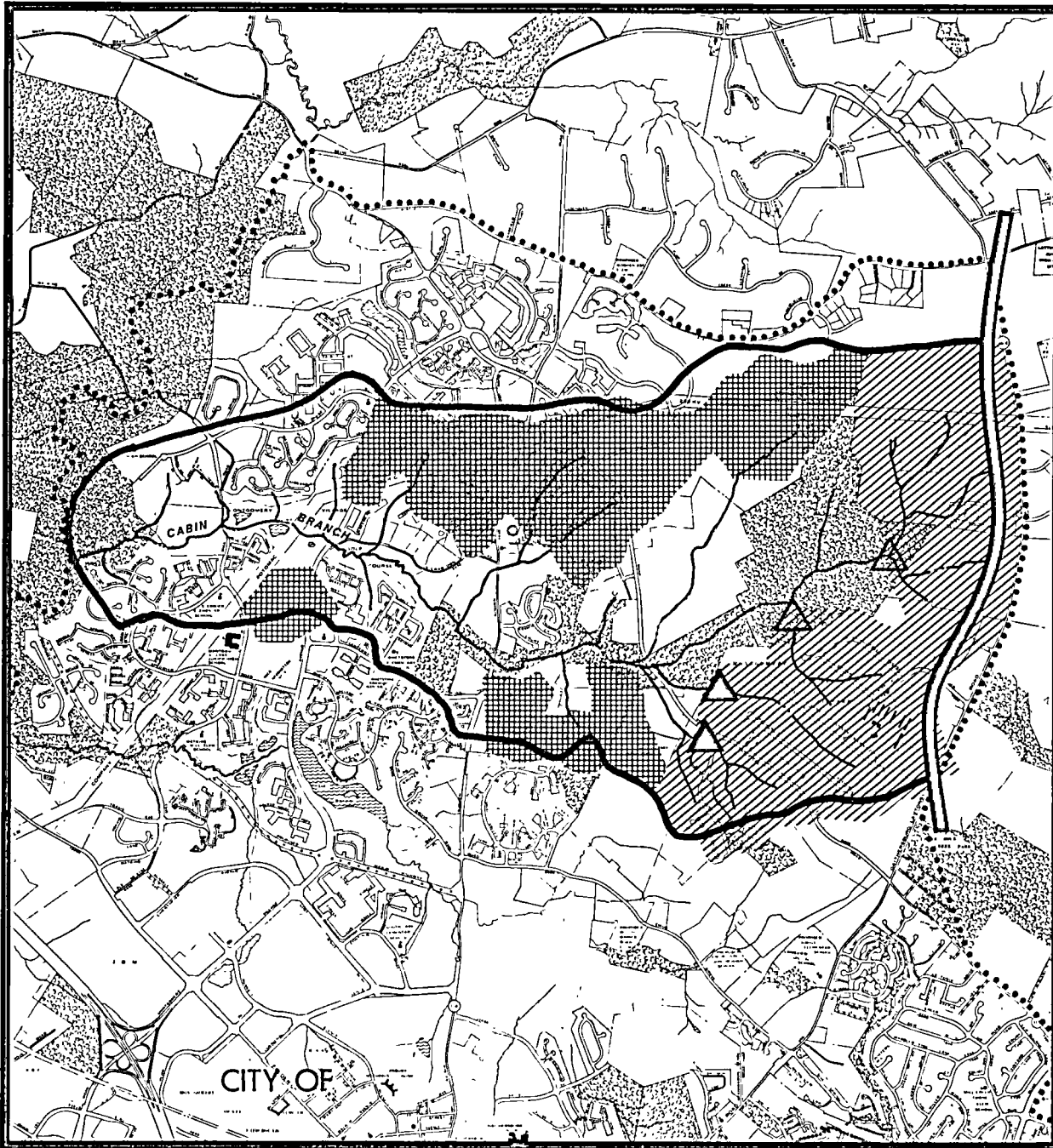
- The provision of small and large scale stormwater management facilities.
- The acquisition or dedication of park and conservation areas.
- Structural improvements to bridges and conveyance systems.
- Structural improvements to protect developed areas subject to flooding.

Single-purpose stormwater management studies have also been completed for the study areas. Cooperative efforts between the County Department of Environmental Protection (DEP) and the Montgomery County Planning Board have produced the Shady Grove Study Area Preliminary Stormwater Management Plan and the Cabin Branch Sub-watershed Stormwater Management Plan, which covers much of the Airpark Study Area. The locations of facilities identified in the Cabin Branch study are shown in figure 33.







Each study provides the technical documentation and justification for possible stormwater management facilities for these developing basins. The urban design plan for Shady Grove West (described in the Land Use and Zoning Recommendations Chapter) incorporates the findings of the former study; the facilities are conceptually located so that they may also function as scenic amenities. More site-specific analyses, with respect to cost-effectiveness, would be needed prior to their inclusion in the County's CIP.

### Watershed Development Guidelines

Site-specific analysis of each property is beyond the scope of this Plan. However, general recommendations which should be used as a guide to such analysis before development plans are formulated and submitted for development review are included in the Technical Appendix.



## CABIN BRANCH STORMWATER MANAGEMENT PLAN\*

-  Existing Central Stormwater Management Structures
-  Proposed Central Stormwater Management Structures
-  Area Controlled By Existing And Proposed Onsite Stormwater Management Facilities
-  Area Controlled By Existing And Proposed Central Stormwater Management Facilities
-  Planning Area Boundary
-  Watershed Boundary

\* Information Provided By County Department Of Environmental Protection

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**Fig. 33**

## NOISE CONCERNS

Since high noise levels restrict certain types of human activity, each land use category has certain limits which should not be exceeded if the land use is to maintain its proper function. Guidelines and development policies should be based on these natural limits. This Plan recommends the reduction of noise impact through the use of setbacks, building placement and design, and noise performance guidelines enforced through the subdivision and site plan review processes.

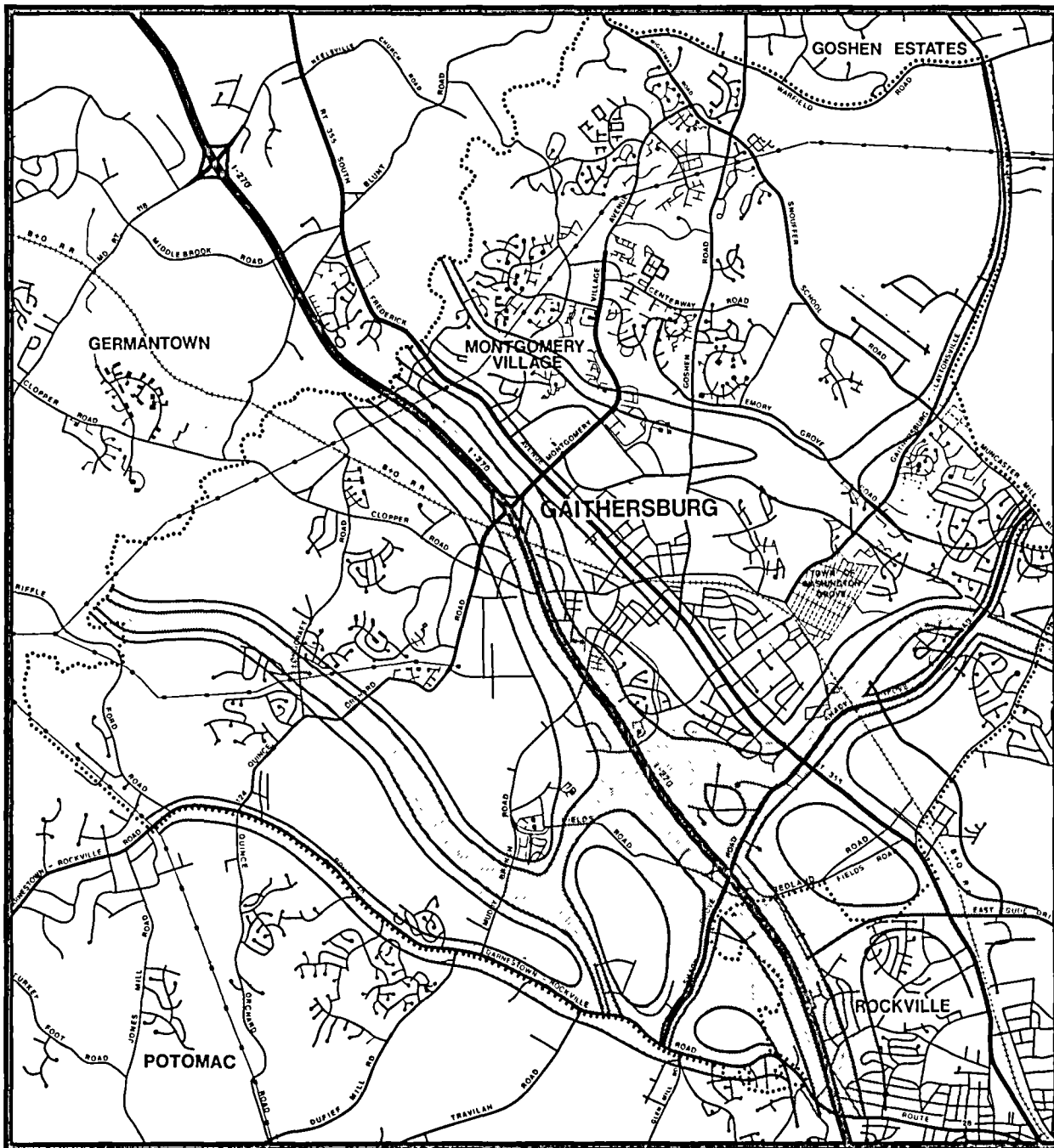
### Transportation Noise

There are a number of roads, both existing and proposed, which will impact development of the vacant parcels in the study areas. Shady Grove West, I-370 and relocated MD 28 present the major noise impacts while Smokey Glen and the Airpark Study Areas will respectively be subjected to noise emanating from Great Seneca and Midcounty Highways (Eastern Arterial).

The responsibility for provision of noise mitigation measures must be a joint effort of highway agencies, land use planning agencies, and private developers. As a general policy, the design of new and reconstructed highways will include evaluation of noise attenuation measures to protect existing and approved developments. Cooperation and coordination of the abovementioned agencies and private developers are essential to the provision of cost-effective highway noise mitigation. The M-NCPPC, for its part, will continue to include noise as a consideration throughout the land use planning and development approval processes. New development near existing highways shall utilize the techniques listed below to achieve the 60 dBA  $L_{dn}$  level.

- Encourage development of compatible land uses (commercial, office, industrial, recreation, and open space) through the planning process.
- Develop high noise areas with site-specific, noise-compatible land uses such as parking lots, garages, storage sheds, recreation areas, open space, stormwater management facilities, or any other use that allows noise-sensitive residential dwellings to be placed away or buffered from highways.
- Construct landscaped berms or man-made barriers such as walls or acoustical fencing to reduce noise to acceptable levels.
- Orient multi-family and other attached structures so that the facade acts as a barrier and buffers private outdoor areas (patios) from roadway traffic.
- If measures designed to produce suitable exterior noise environment are infeasible or insufficient, interior levels of 45 dBA  $L_{dn}$  should be maintained through acoustical treatment of the building shell.
- Encourage notification of future residents in noise-impacted areas.

The Projected Roadway Noise Contours map (see figure 34) provides a general indication of areas of maximum possible roadway noise impacts, based on traffic conditions with ultimate development as recommended in this Plan. These contours do not take into account potential attenuation through natural or man-made features. A table showing projected noise contours at ultimate development for selected roadways is included in the Technical Appendix.



## PROJECTED ROADWAY NOISE CONTOURS

..... Planning Area Boundary

 Areas Exposed to Traffic Noise Levels of at Least 60 dBA, Ldn

 Areas Exposed to Traffic Noise Levels of at Least 65 dBA, Ldn

### Note:

Only Impact Areas Extending at Least 370 Feet From Centerline of Road Are Plotted.  
Boundaries of Impact Areas Are Approximate

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**Fig. 34**



Noise impacts in Gaithersburg are compounded by noise from the B&O Railroad, which passes through the city. Although most of this corridor has already been developed, there are undeveloped parcels adjacent to the railroad along Clopper Road and Shady Grove Road. Train passbys produce the most significant noise peaks in the area, ranging from 80-90 dBA at 150 feet. Several at-grade crossings through the city of Gaithersburg require the sounding of a warning whistle which produces peaks from 95 to 105 dBA at 50 feet. In most instances, intervening non-residential development will alleviate the effect of these levels to some degree. For the undeveloped parcels, this Plan recommends the same solutions listed for highway noise plus a minimum building restriction line of 100 feet from the tracks, due to a vibration hazard (as recommended by U. S. Department of Housing and Urban Development).

#### Aviation Noise

The future use of the Airpark is of critical importance in the determination of appropriate land uses in its vicinity. Noise impacts and safety concerns, due to aircraft overflights, should be the major land use determinants for areas in proximity to the ends of the runway.

The Plan has devoted a portion of the Land Use and Zoning Recommendations Chapter to a discussion of the Airpark and its effect on land use in the vicinity. This Plan recommends approval and implementation of the State Aviation Authority's "Noise Zone" as a comprehensive framework for making the Airpark a "good neighbor."



# Implementation

The Master Plan for Gaithersburg Vicinity, as approved by the Montgomery County Council and adopted by the Planning Commission, serves as a guide to the area's physical development. Public agencies and officials use the Plan to evaluate planning proposals and to allocate resources. The private sector also refers to the Plan for planning guidance.

Montgomery County has an opportunity to take advantage of the strong market potential for housing and employment in the Gaithersburg area. To do so, it must foster the Plan's recommendations by assuring the timely availability of necessary facilities and by regulating the quality of development. Among the measures available to implement the Plan's proposals and related County policies are the following:

- Sectional Map Amendment
- Zoning Text Amendments
- Capital Improvements Program Code
- Water Supply and Sewerage Systems Plan
- Subdivision Regulations
- Comprehensive Planning Policies (CPP)
- Transfer of Development Rights
- Inter-jurisdictional Issues
- Noise Containment Techniques for Montgomery County Airpark
- Historic Sites Master Plan and Ordinance

## SECTIONAL MAP AMENDMENT (SMA)

An SMA is a comprehensive rezoning process which zones all properties within a planning area to correspond with the zoning recommendations in the master plan. The Planning Board files the SMA and the Council, after public hearing, adopts the zoning. Once the rezoning occurs, it is the legal basis for all future local map amendment requests for euclidean zones.

The SMA only implements euclidean (base) zones and those floating zones having the owner's concurrence, and which do not require a development plan at the time of rezoning. The Planned Development (PD) Zone and Mixed-Use (MXPD) Zone require separate applications as local map amendments.

A Sectional Map Amendment for the entire Gaithersburg Vicinity Planning Area will implement this Plan's zoning recommendations.

The Generalized Zoning Plan for Shady Grove West is shown in figure 35. In the Shady Grove West Area, all properties not recommended for development until Stage III will be zoned R-200; most of the affected properties are already zoned R-200. Rezoning of these parcels must await adoption of a Master Plan Amendment.

All other properties will be zoned in accordance with the base zoning recommendations described in the Land Use and Zoning Recommendations Chapter.

#### ZONING TEXT AMENDMENTS

During the course of this Plan process, it became evident that modifications to the I-3 (Light Industrial) Zone were needed to accommodate the changing character of research and development firms. The I-3 Zone should be examined and amended prior to or in concert with the adoption of a future Master Plan Amendment.

#### CAPITAL IMPROVEMENTS PROGRAM (CIP)

The CIP is the County's funding and construction schedule over a six-year period for all public buildings, roads, and other facilities planned by the public agencies. The County Executive is responsible for its yearly preparation. When approved by the County Council, it becomes an important part of the staging mechanism for the Plan.

The Technical Appendix of this Plan identifies projects that are either currently scheduled or which should be included in the future to implement Master Plan recommendations. Those projects currently scheduled are listed as well as those recommended by this Master Plan. The County and state agencies responsible for design and development of each project are indicated.

#### WATER SUPPLY AND SEWERAGE SYSTEMS PLAN

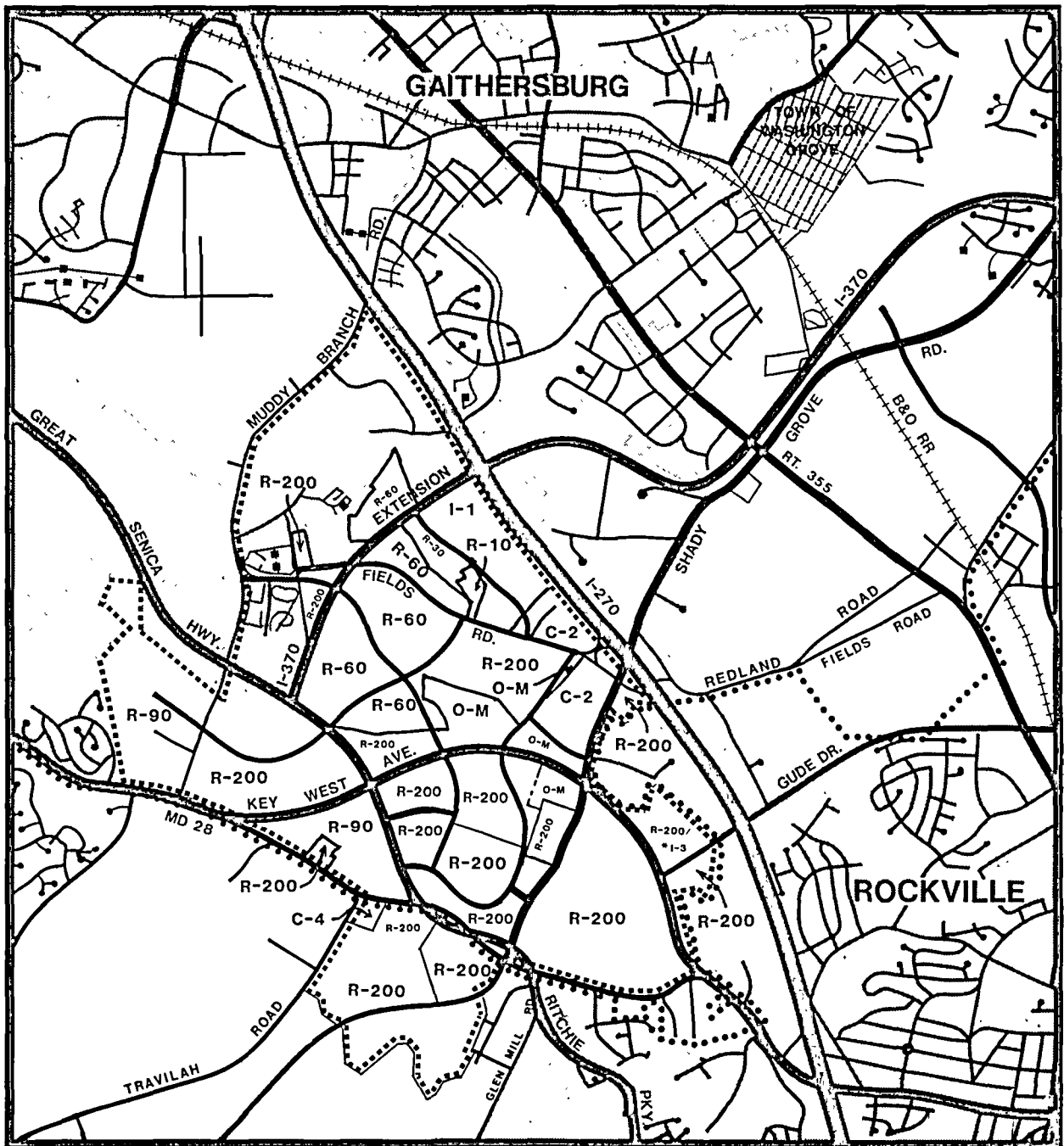
The Comprehensive Ten-Year Water Supply and Sewerage System Plan is the County's program for providing community water and sewerage service. Most of the Gaithersburg area is either currently being served or scheduled to be served in the near future.

The following list describes three levels of sewerage and water distribution priority recommendations used throughout this section:

Priority 1: Designates that service is existing or planned within 6 years.

Priority 2: Designates that service is planned within a 7-10 year period.

Priority 3: Designates that service is not planned within a 10 year period.



## SHADY GROVE WEST AREA - RECOMMENDED SECTIONAL MAP AMENDMENT ZONING

..... Planning Area Boundary

..... Shady Grove West Boundary

\* I-3 Must Be Requested By Property Owner

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Fig. 35

### Water Service and Systems Adequacy

New development within most of the study areas would either have water service immediately available or service could be provided without difficulty to any of these areas once service is requested and approved.

Most of the Gaithersburg area lies within the Montgomery County "high pressure zone." The Washington Suburban Sanitary Commission (WSSC) recently analyzed the water storage needs of the "high pressure zone" and concluded that there is an immediate need for additional storage.<sup>1</sup> The WSSC recently completed a facility plan addressing these needs (CIP Project W-37.16) and a design study is underway.

The WSSC analysis also identified the need for a separate pressure zone to serve higher ground elevations in the Airpark area. A facility plan for this area is completed and the most recent CIP includes funds for the construction of an elevated storage tank along the east side of MD 124, about 1800 feet south of Warfield Road (Project W-56.00). A pumping station (Project W-56.01) is being constructed at the intersection of Snouffer School and Strawberry Knoll Roads as part of this project. (Refer to the Technical Appendix for a listing of CIP projects.)

Once the new "high pressure zone" project is completed, finished water storage will be sufficient to provide for the development expected to occur through 1995 under the Planning Board's intermediate growth forecasts. The Airpark facilities will be sized to meet ultimate demands.

### Sewer Service and Systems Adequacy

Most of the Gaithersburg area has sewer service readily available and, with the exception of the Gudelsky-Percon area south of MD 28, most of the area north of the Airpark and in Shady Grove West Area could be served in the future by minor extensions of the existing sewer system.<sup>2</sup> They are in the Priority 1 service category.

To the north of Analysis Area 58 is the Goshen Estates property, for which sewer service is not envisioned. The Plan assigns this parcel "Priority 3."

All other properties in the Airpark Area are shown as "Priority 1," which will enable the property owners to proceed through the subdivision process. (These properties will still be subject to the Adequate Public Facilities Ordinance.)

To help implement the staging recommendations for the Shady Grove West Area, properties which are not recommended for development until Stage III are shown as "Priority 2." The properties affected include the Banks, Thomas, King, Percon, and part of the Crown Farms. The "Priority 2" designation will help defer development by deferring the extension of sewer service. A sewer category change

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<sup>1</sup> Washington Suburban Sanitary Commission. Distribution System Storage Study, Project 6.02, June 1980.

<sup>2</sup> WSSC is preparing a Western Montgomery County Facilities Plan which will determine adequacy of the existing system and assess future needs.

for these parcels should not be approved until the Master Plan Amendment, which is to precede Stage III, is completed.

Recommended Sewer Service Priorities are shown in figure 36.

## SUBDIVISION REGULATIONS

Subdivision regulations govern the process of dividing land into parcels, blocks, and lots. The Adequate Public Facilities Ordinance (APFO) is an important part of the subdivision regulations. The APFO requires that "public facilities. . . adequate to support and service the proposed subdivision" must be existing or programmed for construction before the Planning Board may grant approval of a preliminary plan of subdivision. The APFO helps assure new development does not proceed unless needed roads are in place or imminent.

At a finer scale, the detailed site plans and optional method of development plans carry out the policies and recommendations of the master plan. As there is flexibility in the layout of buildings and other features on the site, the Planning Board and its staff carefully review the elements with ample room for public input.

## COMPREHENSIVE PLANNING POLICIES (CPP)

In 1982, the Board adopted its first annual Comprehensive Planning Policies (CPP) Report. The CPP incorporated a new set of guidelines for the Board to follow in administering the APF Ordinance. Thus, the interrelationship of the various County programs and plans, particularly in terms of the provision of public facilities, is more clearly defined. The CPP is used as a growth management tool. As the Board reviews and updates it yearly, there is the opportunity to re-evaluate whether proposed public facilities are adequate to serve anticipated development.

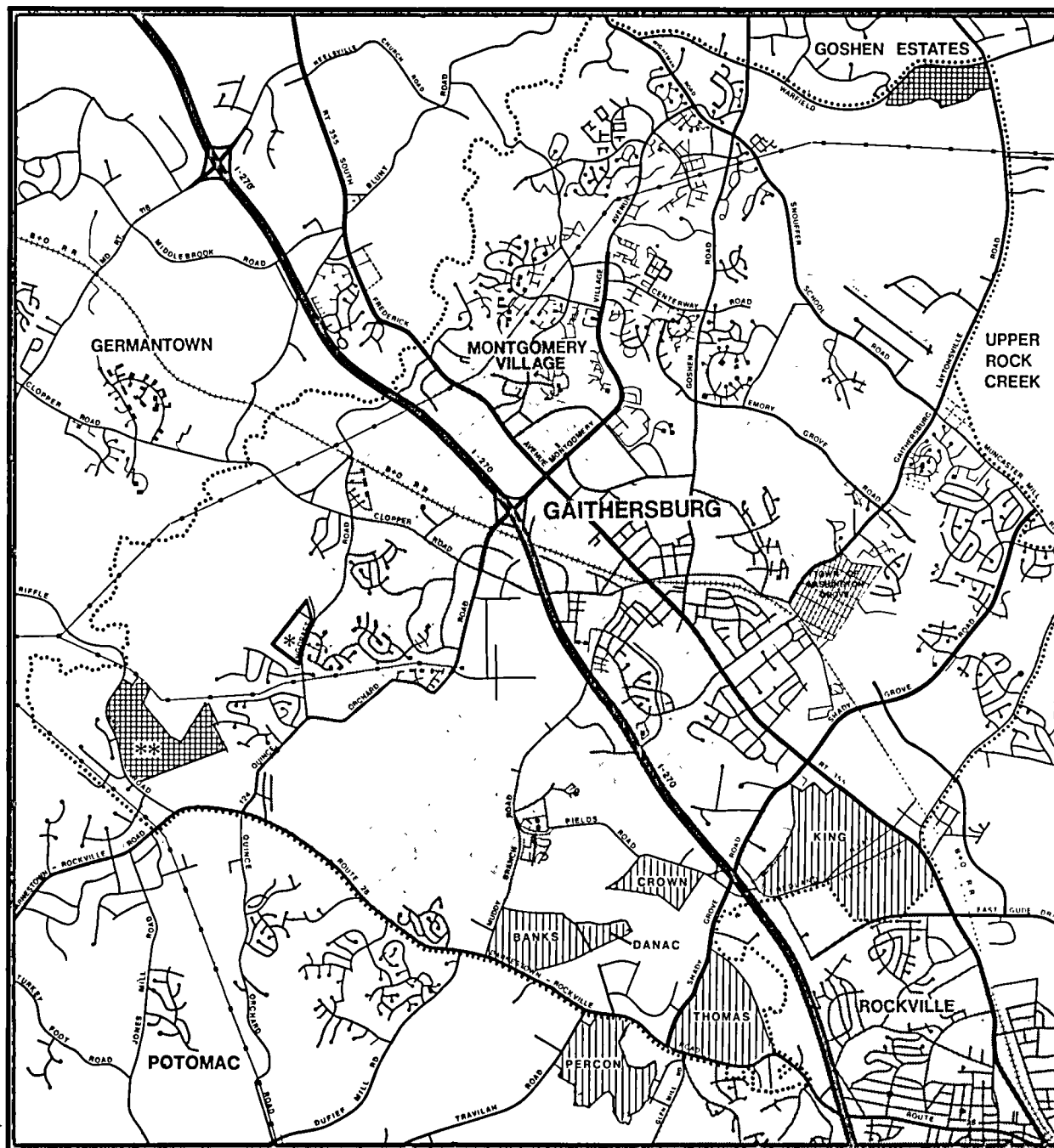
Future CPP reports will incorporate by reference, the staging recommendations of this Master Plan. This will mandate a more rigorous APF test in terms of transportation adequacy. A record plat for a subdivision may be approved only when the major roads used in the traffic analysis are under contract for construction. Although the staging plan identifies which roads are to be considered as staging events, other roads may be required as the result of more detailed traffic studies.

By "under contract for construction," this Plan intends that a contract has been signed for construction of a road.

Figure 22 shows how the Shady Grove West staging plan recommendations will be incorporated into the standard APFO subdivision review process.

## TRANSFER OF DEVELOPMENT RIGHTS (TDR)

The Plan recommends the suitability of development on certain properties using the TDR option as part of its plan to preserve agriculture in the County. The goal of the Agricultural Preservation Plan is to retain farmland in the upper portion of the County. To do so, development of certain agricultural lands must be discouraged or prevented. The Agricultural Preservation Plan developed two mechanisms for farmland preservation in the Agricultural Reserve: the first reduces permitted residential development in the Agricultural Reserve to a very low density, and the second creates a mechanism to transfer development rights from the Agricultural Reserve to other parts of the County.



## RECOMMENDED SEWER SERVICE PRIORITIES

..... Planning Area Boundary

□ Municipalities

□ PRIORITY ONE  
Sewer Exists or is Planned Within 6 Years

▨ PRIORITY TWO  
Sewer is Planned Within a 7-10 Year Period



PRIORITY THREE  
Sewer is Not Planned Within 10 Years

\* This area recommended for Priority One because water pollution problems in Clopper Lake may occur if more septic systems are located in this parcel.

\*\* Priority One recommended upon Planning Board approval of preliminary plan using cluster option.

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Fig. 36



The TDR approach permits development rights to be transferred from parcels in the Agricultural Reserve to designated "receiving areas" in other parts of the County. Receiving areas are those places where development rights are transferred to increase residential density. The TDR process is illustrated in figure 37.

Each master plan, as it is developed, is examined to determine whether it should contain receiving areas and, if so, how many. The location of receiving areas must be consistent with the master plan's limitations on the ability and desirability of development in certain areas. These limits must be within the range of planned public facilities such as roads, utilities, parks, and schools. Receiving areas must be compatible with existing and planned development on adjacent or surrounding areas. They must also meet the County-wide criteria (refer to Montgomery County Zoning Ordinance) established for the designation of receiving areas.

This Plan designates some of the analysis areas in the Shady Grove West and Airpark Study Areas as TDR receiving areas. These areas are recommended to be developed up to the optional TDR density (which does not include the MPDU bonus) indicated for that area, if TDR's are applied. The subject development must have passed the Adequate Public Facilities test and include at least the minimum number of TDR's permitted to be used under the master plan designation.

A 179-acre property in the Airpark Area is recommended for sewerage service only if it is developed at the TDR optional density. (See Analysis Area 58.)

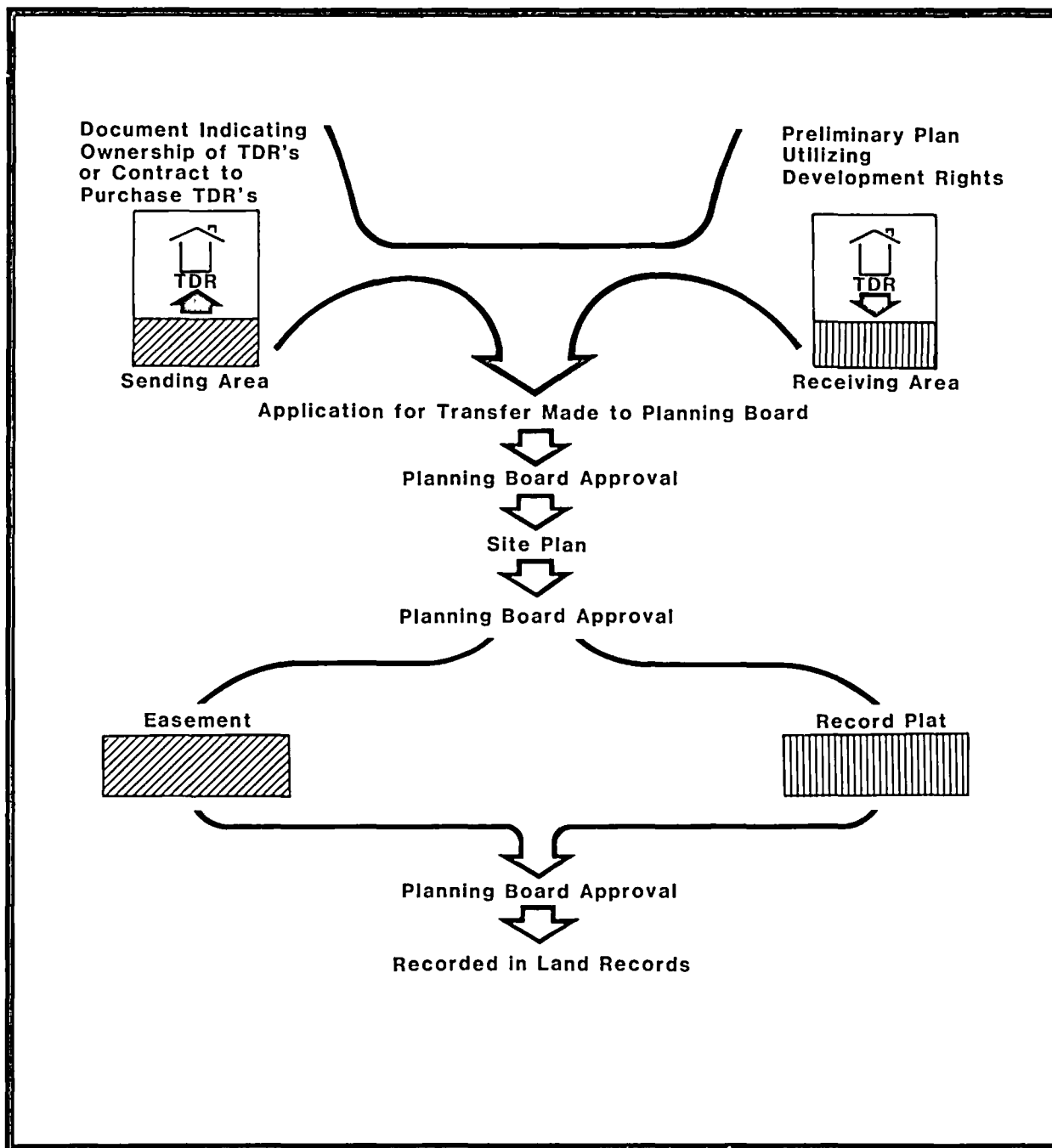
This Plan recommends the use of TDR's on several properties which are located within the expansion limits of the cities of Rockville and Gaithersburg. The Plan recommends that the cities and the County explore mechanisms for the accomplishment of these designations. Requiring the recordation of TDR easement at the time of annexation may be a method of achieving this goal.

#### INTER-JURISDICTIONAL ISSUES

The cities of Rockville and Gaithersburg and the town of Washington Grove are directly affected by the recommendations of this Plan. Many of the undeveloped parcels border on one of these jurisdictions and a number of them lie within the maximum expansion limits (MEL) established by the two cities.

The concerns of these jurisdictions have been carefully considered throughout the planning process. Two principal sets of issues dominate these inter-jurisdictional considerations: those associated with annexation policies and those related to development scale in the Shady Grove West Study Area.

The only geographic restrictions on annexation are: (1) the property cannot be within the corporate limits of any other municipality, (2) the property must be contiguous to the existing corporate area, and (3) no new enclaves totally encircled by a municipality may be created. The annexation process can be initiated by persons who own land or live in the area to be annexed or by the legislative body of the municipality. The acceptance of an annexation request is at the option of the municipal corporation and is subject to the consent of 25 percent of the registered voters and 25 percent of the property owners in the area to be annexed. It is also subject to a petition to referendum by either 20 percent of registered voters in the area to be annexed or 20 percent of the qualified voters of the municipality. The effect of these provisions is that municipalities cannot, in most cases, compel



## TRANSFERABLE DEVELOPMENT RIGHTS PROCESS

This illustration depicts, first, the ownership or contract to purchase development rights from a farmer in the sending area by a developer. The developer files, with the Montgomery County Planning Board, a preliminary plan of subdivision for property in the receiving area using at least two-thirds of the possible development rights transferable to the property. This represents the application for transfer. Once the preliminary plan of subdivision is approved by the Planning Board, the developer then files a detailed site plan for the receiving property for approval by the Planning Board. Following site plan approval, the developer would prepare a record plat. An easement document limiting future residential development in the sending area is prepared, conveying the easement to the county. Upon approval of the easement document and record plat by the Planning Board, the easement and the record plat are recorded in the land records and the transfer of development rights is complete.

annexation for developed areas; conversely, area inhabitants or owners contiguous to a municipality cannot compel annexation by the municipality.

When property is proposed to be annexed, several issues arise. The cities may not, for five years, rezone the property to a different land use or higher intensity than is shown on the County's current master plan unless the County Council consents to such rezoning. The cities, therefore, refer all annexation requests to the Montgomery County Planning Board and County Council for review prior to city action on the request. This provides an opportunity to address any proposed rezoning as well as other concerns, such as the removal of the property from MPDU requirements, the TDR program and the constraints of the Adequate Public Facilities Ordinance.

#### Annexation Policy Guidelines

During work on this Plan, the two cities proposed an explicit policy agreement on annexation issues. The Plan supports the development of a mutually acceptable agreement on MEL and annexation policy.

The Plan also recommends that any land annexed by either Gaithersburg or Rockville include a staging component in the annexation agreement, similar to that which would be in effect if the tract remained outside the city. Without such a staging component, there could be an imbalance between the land use recommendations and road facilities. The County's attempts to match development with transportation capacity will be frustrated if the County and the cities do not use similar standards for evaluating traffic impact.

Although state law does not require a staging component, such a component may be included if mutually agreed to in the annexation agreement. In those instances, therefore, where the County Council's approval for rezoning is required, that approval shall be granted only if the owner of the subject property and the municipality enter into a staging agreement or, otherwise, guarantee the adequacy of public facilities. The staging agreement should be recorded in the land records of the municipality or provide assurance that it can be enforced by the city.

A number of the areas that lie within the MEL of Gaithersburg and Rockville are identified by the Master Plan as TDR receiving areas. The citizens of the cities share in the benefits of the County's efforts to preserve agricultural and open space. The "wedges and corridor" concept as stated in the General Plan assumes that development in the corridor should be increased as a result of restricting development in the "wedges". The Transfer of Development Rights program is a logical tool to accomplish this objective and should not be limited to corridor areas within the County and not within the cities. The County will, therefore, continue to recommend to the cities that they require the use of TDR's in their annexation agreements when TDR receiving areas are involved. In the absence of such requirement, the Plan recommends that upon annexation of such parcels, the County Council not concur in zoning densities greater than the base density shown in the Master Plan. For purposes of the requirements in Article 23-A, subsection 9(c) of the Maryland Annotated Code, the Master Plan land use shall be considered to be the base density.

#### A Process for Addressing Areas of Mutual Concern

This Plan recommends that the County and the municipalities of Rockville and Gaithersburg enter into the following two agreements:

1. The cities of Rockville and Gaithersburg, in concert with the County, should agree to adopt a mutually acceptable staging approach for the MD 28 area, and agree to establish a system for the remaining I-270 Corridor area. This staging program can be tailored to each jurisdiction but should be consistent in terms of data and methodology.
2. The cities of Rockville and Gaithersburg and the County should agree to develop a memorandum of understanding on maximum expansion limits and annexation issues. This agreement would provide the policy basis for reviewing all future annexation applications.

## NOISE CONTAINMENT TECHNIQUES FOR THE MONTGOMERY COUNTY AIR-PARK

The Plan supports the efforts by the Montgomery County Revenue Authority to develop, with the assistance of the State Aviation Administration (SAA), a Noise Abatement Plan. The purpose of the Noise Abatement Plan is to reduce or eliminate the amount of land exposed to noise levels exceeding 60 dBA Ldn, through the application of the best available technology. The operational characteristics of the Airpark will be controlled in terms of such factors as growth of usage, restrictions on noisy maintenance operations, and modifications of the runway and flight path use. The Revenue Authority, as the airport operator, will enforce the provisions of the Noise Abatement Plan.

The Plan also supports the efforts of the SAA to designate a noise zone at the Montgomery County Airpark. The SAA has identified projected noise contours exceeding 60 dBA Ldn around the Airpark. Based on the operational characteristics of the Noise Abatement Plan, the SAA will develop noise contours as projected five years into the future. Once these contours are developed, the SAA will hold a public hearing. After full consideration of the public hearing testimony, the SAA will adopt a noise zone encompassing the noise-impacted area. The County, through its police powers, will then adopt regulations to control land uses within the noise zone.

### Notification

The Plan recommends that potential homebuyers be made aware of the presence of the Airpark and its impacts prior to their purchasing a home in the Airpark area. Under the master plan disclosure provisions of the Montgomery County Code, a homebuyer has the opportunity to review the applicable master plan. Thus, the information provided in this Plan will assist in notifying prospective homebuyers of the presence of the Airpark and its impacts. The Plan also recommends that a formal disclosure of the presence of the Airpark be made.

These measures occur late in the home selection process, generally after one has selected a particular home. Therefore, the Plan further recommends that the Revenue Authority place well-designed signs in the area indicating the direction of and distance to the Airpark. These signs will indicate, early in the prospective homebuyer's shopping, that the Airpark is in the vicinity.

## HISTORIC SITES MASTER PLAN AND ORDINANCE

There is a variety of historic resources in the County. Some are protected from adverse state or federal actions through identification on the Maryland State Inventory or the National Register of Historic Places. The County, recognizing the

need for additional protection for these sites and for sites of local significance, enacted its own historic preservation legislation in 1979.

Under the Historic Preservation Ordinance, Chapter 24A of the County Code, resources identified on the Locational Atlas and Index of Historic Sites in Montgomery County are afforded limited, interim protection from demolition or substantial alteration. Permits for such actions are withheld by the County until the Planning Board reviews the site to determine whether it will be added to the Master Plan for Historic Preservation. The permit may be issued if the site is not added to the Master Plan.

If included in the Master Plan, the Ordinance provides additional controls over the maintenance, alteration, and demolition of designated resources.

The architectural and historic significance of the Gaithersburg Vicinity resources identified on the Locational Atlas and Index of Historic Sites in Montgomery County were reviewed as part of this Master Plan. (See figure 38.) As a result of this evaluations, the Plan recommends the Master Plan for Historic Preservation be amended to include the following sites:

20/4 Nathan Dickerson Farm

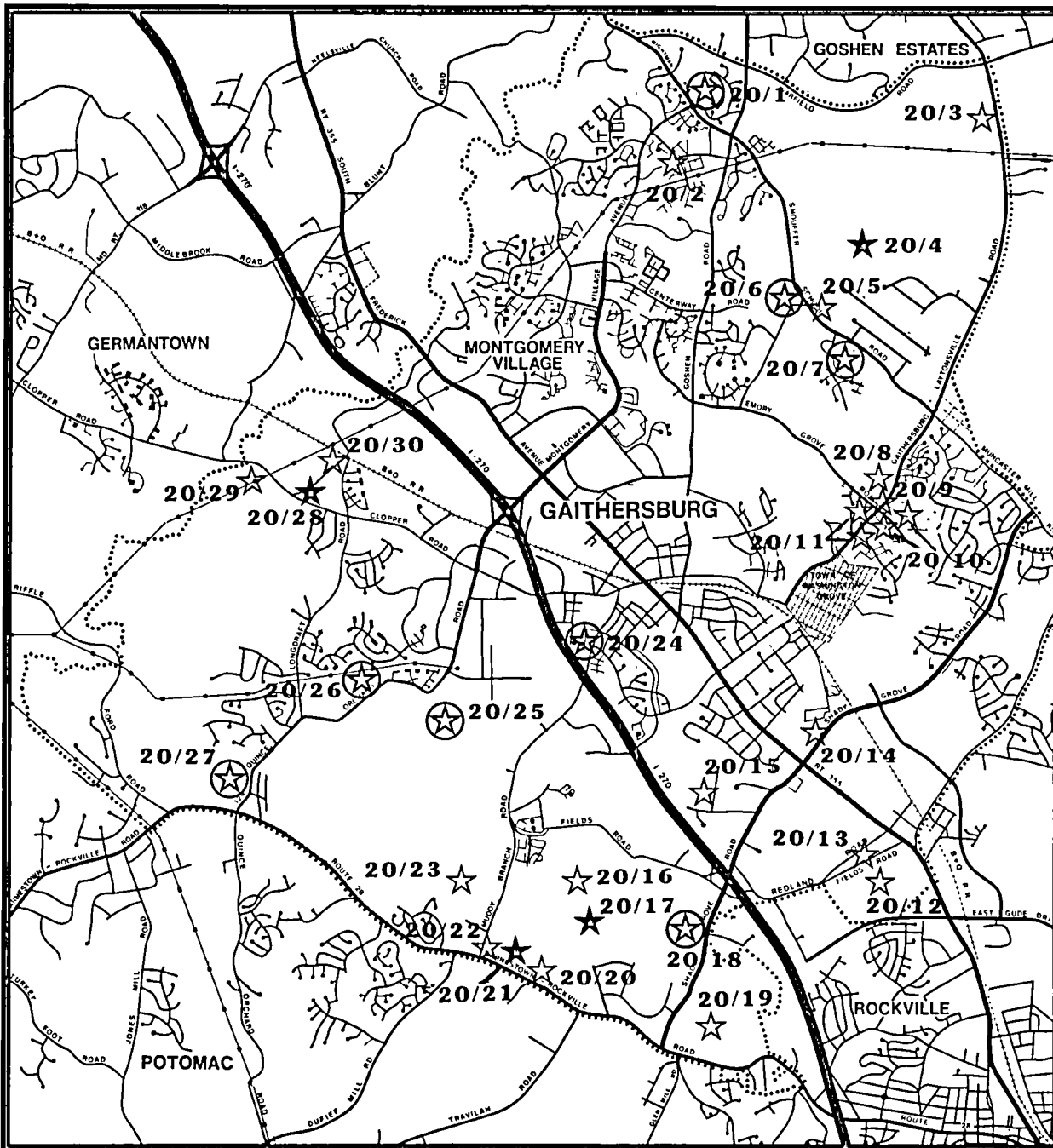
- Excellent example of late Federal style frame farmhouse built around 1836.
- Associated with Nathan Dickerson, prominent citizen and two-time County Commissioner.

20/17 England/Crown Farm

- Victorian style structure with intricate bracket work and cornice along its main facade.
- Typical Maryland farmstead with log tenant house.

20/21 Belward Farm/Ward House

- 1891--Significant as an example of a high style, late 19th century farmstead.
- Queen Anne House exemplifies high style Victorian architecture. This two-story frame house features shingled gables and a two-story porch with turned posts.
- Built by Ignatius B. Ward, farmer, storekeeper, and postmaster for Hunting Hill.
- The environmental setting includes the Queen Anne style house, some representative outbuildings, and the significant shade trees which combine to define the historic farmstead. The setting also includes the tree-lined drive in order to preserve the historic relationship of the farmstead to the road. At the time of development, special attention should be given the siting of structures to provide a view of the house from MD 28.



## EVALUATED HISTORIC RESOURCES

- ★ Sites Designated on the Master Plan for Historic Preservation
- ☆ Sites Removed From the Locational Atlas
- ⊛ Sites Removed From Locational Atlas  
(associated structures no longer standing)
- Washington Grove National Register Historic District  
(under jurisdiction of the town of Washington Grove)

**APPROVED & ADOPTED GAITHERSBURG VICINITY MASTER PLAN**  
Montgomery County Maryland

January, 1985



**Fig. 38**

## 20/28 St. Rose's Church and Cemetery

- Excellent example of 19th Century rural church incorporating significant Gothic Revival architectural elements.
- One of the earliest Catholic parishes in the northern part of the County.

The area sites listed in table 10 were reviewed either as part of this Plan or at previous public hearings and were found not suitable for regulation under the Historic Preservation Ordinance. This Plan recommends their removal from the Locational Atlas. Although removed from the Locational Atlas these sites will remain on the Maryland Historical Trust's Inventory of State Historical Resources.

TABLE 10

SITES TO BE REMOVED FROM THE LOCATIONAL ATLAS  
AND INDEX OF HISTORIC SITES

Site	Name	Planning Board Hearing Date
20/1	Remus Dorsey Tenant House**	4/5/83 - 4/6/83
20/2	Dorsey Cemetery	4/5/83 - 4/6/83
20/3	Shaw Cemetery	4/5/83 - 4/6/83
20/5	Snouffer Schoolhouse	4/5/83 - 4/6/83
20/6	Urah Bowman House**	6/17/82
20/7	Day Farm Barns**	9/25/80
20/8	Emory Grove Camp Meeting Grounds	7/5/83 - 7/6/83
20/9	Emory Grove Methodist Episcopal Church	7/5/83 - 7/6/83
20/10	Mineral Spring Houses	4/12/84
20/11	Sylvester Thompson's Store	4/12/84
20/12	Field's King Farm	4/12/84
20/13	Watkins Farmhouse	4/12/84
20/14	Peters House/Monument View Hill	7/22/82
20/15	Gaither/Howes House	4/5/83 - 4/6/83
20/16	Heater/Crown Farm	4/5/83 - 4/6/83
*20/18	Thompson House**	10/9/83
20/19	Windy Knoll Farm	4/5/83 - 4/6/83
20/20	Hunting Hill Church	4/5/83 - 4/6/83
20/22	Hunting Hill Store and Post Office	4/5/83 - 4/6/83
20/23	Ward/Garrett Cemetery	4/5/83 - 4/6/83
*20/24	Mills House**	1/20/83
20/25	Briggs Farm #1**	7/24/80
20/26	Briggs Farm #2**	4/12/84
20/27	Pleasant View Church**	6/17/82
20/29	Woodlands Site and Smokehouse	4/5/83 - 4/6/83
*20/30	Railroad Underpass	4/12/84

\* Recommended for designation by the Montgomery County Historic Preservation Commission.

\*\* No longer standing.



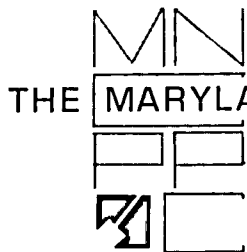


## CONTENTS OF TECHNICAL APPENDIX

The Technical Appendix, which has been published as a separate document, includes background data and analysis which support the land use and zoning recommendations of the Gaithersburg Vicinity Master Plan. Economic, housing, and transportation forecasts are included. Future and programmed roadway, sewerage, and water projects are described and environmental guidelines for future development are discussed.

The table of contents of the Technical Appendix is included here for information purposes. Copies of the Technical Appendix are available for review at Maryland-National Capital Park and Planning Commission, 8787 Georgia Avenue, Silver Spring, MD and at the Gaithersburg Public Library.

- APPENDIX 1    Gaithersburg Vicinity Master Plan Process Summary
- APPENDIX 2    Background Data
  - A.    Transportation
  - B.    Traffic Forecast Model
  - C.    Housing
  - D.    Economic Development
  - E.    Community Facilities
  - F.    Environmental Concerns
  - G.    Montgomery County Airpark
- APPENDIX 3    Definitions
- APPENDIX 4    Proposed Water Projects/Sewerage Projects
- APPENDIX 5    Adopted Capital Improvements Program  
FY's 1983-1988, Gaithersburg



MNCPPC NO. 85-2

8787 Georgia Avenue • Silver Spring, Maryland 20907

## RESOLUTION

WHEREAS, The Maryland National Capital Park and Planning Commission, by virtue of Article 28 of the Annotated Code of Maryland, is authorized and empowered, from time to time, to make and adopt, amend, extend, and add to a General Plan for the Physical Development of the Maryland-Washington Regional District; and

WHEREAS, the Montgomery County Planning Board of The Maryland-National Capital Park and Planning Commission held a public hearing on April 5 and 6, 1983, on a preliminary draft amendment to the Gaithersburg Vicinity Master Plan, being also a proposed amendment to the General Plan for the Physical Development of the Maryland-Washington Regional District and the Master Plan of Highways; and

WHEREAS, the Montgomery County Planning board, after said public hearing and due deliberation and consideration, on September 21, 1983, approved a final draft amendment and recommended that it be approved by the Montgomery County Council; and

WHEREAS, the Montgomery County Council reviewed the material of record and discussed the Final Draft Master Plan Amendment with interested parties; and

WHEREAS, the Montgomery County Council, sitting as the District Council for that portion of the Maryland-Washington Regional District lying within Montgomery County, on December 17, 1984, approved the final draft amendment of said plan by Resolution 10-1083.

NOW, THEREFORE, BE IT RESOLVED, that the Montgomery County Planning Board and The Maryland-National Capital Park and Planning Commission does hereby adopt said amendment to the Gaithersburg Vicinity Master Plan, together with the General Plan for the Physical Development of the Maryland-Washington Regional District and the Master Plan of Highways as approved by the Montgomery County Council in the attached Resolution 10-1083.

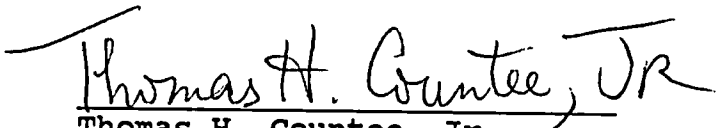
BE IT FURTHER RESOLVED that this amendment be reflected on copies of the aforesaid plan and that copies of such amendment shall be certified by The Maryland-National Capital Park and Planning Commission and filed with the Clerk of the Circuit Court of each of Montgomery and Prince George's Counties, as required by law.

\*\*\*\*\*

BE IT FURTHER RESOLVED, that this copy of said plan shall be certified by The Maryland-National Capital Park and Planning Commission and filed with the clerks of the Circuit Courts of each of Montgomery and Prince George's Counties, as required by law.

\*\*\*\*\*

This is to certify that the foregoing is a true and correct copy of a resolution adopted by the Maryland-National Capital Park and Planning Commission on motion of Commissioner Krahnke, seconded by Commissioner Brown, with Commissioners Krahnke, Brown, Christeller, Dabney, Granke, Heimann, Keller, and Yewell, voting in favor of the motion, and with Commissioners Dukes and Kenney being absent, at its regular meeting held on Wednesday, January 9, 1985 in Montgomery County, Maryland.

  
Thomas H. Countee, Jr.  
Executive Director

Resolution No. 10-1083

Introduced: December 17, 1984

Adopted: December 17, 1984

COUNTY COUNCIL FOR MONTGOMERY COUNTY, MARYLAND  
SITTING AS A DISTRICT COUNCIL FOR THAT PORTION  
OF THE MARYLAND-WASHINGTON REGIONAL DISTRICT  
WITHIN MONTGOMERY COUNTY, MARYLAND

SUBJECT: Approval of the Master Plan for the Gaithersburg Vicinity Planning Area

WHEREAS, on September 21, 1983, the Maryland-National Capital Park and Planning Commission approved the Final Draft Gaithersburg Vicinity Master Plan and duly transmitted said approved Final Draft Master Plan to the Montgomery County Council and the Montgomery County Executive; and

WHEREAS, this Final Draft Plan amends the 1971 Gaithersburg Vicinity Master Plan; a portion of the 1980 Potomac Subregion Master Plan as amended in 1982; the Master Plan of Bikeways, 1978; the Master Plan for Historic Preservation, 1979, as amended; the General Plan for the Physical Development of the Maryland-Washington Regional District; and the Master Plan of Highways within Montgomery County, Maryland; and

WHEREAS, the Montgomery County Executive, pursuant to Ordinance 7-38, Montgomery County Code, 1972, Section 70A-7, duly conveyed to the Montgomery County Council on February 21, 1984, his comments and recommendations on said approved Final Draft Master Plan; and

WHEREAS, on November 8 and November 10, 1983, the Montgomery County Council held public hearings wherein oral and written testimony was received concerning the Final Draft Gaithersburg Vicinity Master Plan; and

WHEREAS, on December 22, 1983, January 31 and February 28, 1984, worksessions were held by the Council's Planning, Housing and Economic Development Committee regarding issues raised at the Gaithersburg Vicinity Master Plan public hearing; and

WHEREAS, subsequent to the worksession the Council established a task force to address issues raised by the municipalities of Rockville, Gaithersburg, and Washington Grove regarding the future development of the Shady Grove West area of the Gaithersburg Vicinity Master Plan; and

WHEREAS, as a result of the Task Force meetings a staging element and other revisions were developed by the Montgomery County Planning Board as amendments to the Gaithersburg Vicinity Master Plan; and

WHEREAS, on September 18, 1984, an additional public hearing was held by the Montgomery County Council to provide opportunity for interested and affected parties to comment on the staging proposal and other revisions proposed to the Final Draft Gaithersburg Vicinity Master Plan; and

WHEREAS, on October 1, October 22, November 13, November 20, December 11, and December 17, 1984, the Montgomery County Council continued the worksessions on the Final Draft Gaithersburg Vicinity Master Plan at which time detailed consideration was given to the public hearing record and to the comments and concerns of interested parties attending the worksession discussion.

NOW, THEREFORE, BE IT RESOLVED BY THE County Council for Montgomery County, Maryland, sitting as the District Council for the Maryland-Washington Regional District in Montgomery County, Maryland that the Final Draft Gaithersburg Vicinity Master Plan, dated September 1983, is hereby approved with such revisions, modifications, and amendments as hereinafter set forth.

Council changes to the Final Draft Master Plan for the Gaithersburg Vicinity Master Plan, dated September 1983, are identified below by chapter, section, and page number, as appropriate. Deletions to the text of the plan are indicated by [brackets], additions by underscoring.

#### SHADY GROVE WEST STUDY AREA

- Revise text under heading "Overview of Land Use Recommendations", on page 17, to read as follows:

#### Overview of Land Use Recommendations

[The land use recommendations for Shady Grove West promote a mix of office, retail and residential uses, with residential being the predominant land use pattern (see page 19).]

[The Recommended Land Use map proposes approximately 550 acres for retail and office uses. Most of this acreage is either already committed to development (140 acres) or is located in the Shady Grove Life Sciences Center just south of Key West Avenue (211 acres).]

[The Plan recommends a major new concentration of office and retail uses south of I-270 and north of Fields Road. This area is well suited for such uses because of its proximity to I-270 and I-370 Extended. The Plan envisions a mix of uses, including office and research buildings, conference and hotel facilities, apartment buildings, and a limited amount of retail uses. This area is identified as an activity center (see "A" on the Land Use Concepts map).]

[The office character west of Shady Grove Road has already been established by existing office buildings. This Plan continues that character. Office uses are also confirmed for a 45-acre property just north of Key West Avenue; the property is one of the activity center sites ("C") shown on the Land Use Concepts Map.]

[Retail uses are proposed in Shady Grove West to provide convenience shopping for the residents and employees. A 100,000 square foot shopping center is proposed along the residential portion of the "commons area" if development occurs as part of an overall planned development.]

[Smaller scale retail uses are encouraged in employment areas.]

This Plan recommends that the majority of Shady Grove West be designated a "Research and Development (R&D) Village" (see map titled "R&D Village Concept" on page 28 of Resolution). The R&D Village will enhance county-wide planning efforts to attract new R&D firms to Montgomery County and to retain existing firms. The R&D Village will foster a mix of housing types and a variety of employment uses, thereby enhancing the quality of life for employees and for residents.

In terms of employment, the R&D Village would offer a high quality environment not only for research and development firms, but also for offices, corporate headquarters, light manufacturing, and business support services.

The County-owned Life Sciences Center has already established a strong bio-technical presence in the southern portion of the R&D Village. A joint program of the University of Maryland and the National Bureau of Standards is being planned by the County for the portion of the Life Sciences Center south of Md 28.

Just as the Life Sciences Center "anchors" the southern end of the R&D Village, a concentration of signature office buildings and related retail uses would anchor the northern end, near I-270. More intense development is proposed here, in part because the area is so well served by the regional transportation network (I-270, I-370, METRO). This area also offers a tremendous opportunity to create an identifiable entry into the R&D Village area from I-270. A "mixed use" planned concept is proposed to attract employers seeking an amenity-laden site for their employees and a high quality corporate image for their firms. The Plan envisions office and research buildings, conference and hotel facilities, apartment buildings, and a limited amount of retail uses.

The office character west of Shady Grove Road has already been established by existing office buildings. This Plan continues that character. Office uses are also confirmed for a 45-acre property just north of Key West Avenue.

Residential uses are an integral part of the R&D Village concept. This Plan recommends that 1500 dwellings be incorporated into the mixed-use development proposed for the Washingtonian property. Another 750-1000 units are recommended in the southwestern portion of the Village as a transition to residential development west of the I-370 Connector in the City of Gaithersburg.

Additional areas for residential development will be examined as part of the Stage III Master Plan Amendment. The Amendment will be guided by this Plan's objective to provide the opportunity for people, as much as possible, to live and work in the same community and to provide a wide range of housing types.

One of the components of the R&D Village is a pedestrian-oriented "commons area" which is proposed to traverse the Shady Grove West Area. The character of this open space feature will be determined by the land uses through which it passes. The "commons" would help create an urban, human-scale environment as compared to the usual automobile-oriented, suburban development pattern. It would also encourage pedestrian movement.

Add new section titled "Need for a Future Comprehensive Master Plan Amendment", to read as follows:

Need for a Future Comprehensive Master Plan Amendment

Many properties in the Shady Grove West Area are proposed to be reexamined as part of a future Master Plan Amendment. Specific land use proposals for certain properties are not included at this time for the following reasons:

- Uncertainty as to long-term employment needs in the I-270 Corridor.
- Uncertainty as to the desirable balance of employment and residences in Shady Grove West.
- Community concern regarding the capacity of future roads to handle future growth.
- The need to monitor traffic as major new roads are programmed for construction.
- The need to reexamine the King Farm before "end-state" land use proposals are made for the balance of Shady Grove West. Even though the King Farm, included in the Shady Grove Sector Plan, lies just outside the area covered by this Master Plan, its development will strongly influence land use patterns in Shady Grove West and therefore should be studied together in a future Master Plan Amendment. The 1984 opening of the Shady Grove Metro Station and the 1989 projection of the opening of I-370 call for early consideration of intensive development on part of the King Farm.
- The need to monitor the progress of the cities of Rockville and Gaithersburg in establishing and implementing a staging program. Whether the cities have adopted such a program will influence the amount and timing of future development in Shady Grove West.

A future Master Plan Amendment will proceed when three events occur:

- An I-270 Corridor Employment Study is completed;



- Additional information is available regarding the traffic capacity of the following planned roadways: I-270 widening and the extension of Key West Boulevard from Gude Drive to Md 28;
  - Project planning studies for Md 28 in accord with Master Plan recommendations are completed.
- Revise existing text and related maps under heading "Land Use and Zoning Recommendations by District" to include land use and zoning modifications as follows:

Land Use and Zoning Recommendations by District

1. Crown Farm

- Designate Low-Moderate Intensity Employment on Land Use Plan
- Designate I-3 on Zoning Plan Map; amend text to indicate rezoning will not occur until a comprehensive Master Plan Amendment is adopted and restudy of the I-3 Zone is completed. The Master Plan Amendment will consider designating the portion of the Crown Farm west of Spine Road as residential.

2. Danac Property

- Designate as Low-Moderate Intensity Employment on Land Use Plan
- Designate as I-3 on Zoning Plan Map; amend text to indicate rezoning will not occur until a comprehensive Master Plan Amendment is adopted and restudy of the I-3 Zone is completed.

3. Interchange area (southeast quadrant of I-270 and Shady Grove Road)

- Change proposed zoning from C-1 to I-3

## 4. Percon Property

- Designate Low-Moderate Intensity Employment on Land Use Plan; amend text to indicate future development as R&D with a major conference center, and that the implications on the Wedges and Corridors Concept of a major conference and employment center at this location shall be explored in the context of a future Master Plan Amendment.
- Designate as I-3 on Zoning Plan Map; amend text to indicate rezoning will not occur until a comprehensive Master Plan Amendment is adopted and restudy of the I-3 Zone is completed. The Master Plan Amendment will examine residential as well as employment uses.

## 5. Thomas Farm

- Designate as Low-Moderate Density Residential Development (2-4 units/acre) on Land Use Plan Map with a floating symbol indicating a mix of residential and employment uses. Amend text to indicate that a future Master Plan Amendment will determine the ultimate land use pattern in this area. Alternatives to be examined include residential uses and/or moderate-intensity employment on all or part of the Thomas Farm. Particular consideration should be given to development consistent with and supporting the Life Science Center and related research activities.
- Designate as R-200 on Zoning Plan Map.

## 6. Banks Farm

- Designate as Low Density Residential Development (2-4 units/acre) on Land Use Plan Map; amend text to indicate that a future Master Plan Amendment will examine the option of preserving this area as open space and encouraging continued farming of the land.
- Designate as R-200 on Zoning Plan Map.

- Amend Land Use Plan Map to include notations as follows:

- NOTE 1 (Thomas Farm) - A future Master Plan Amendment will determine the ultimate land use pattern in this area. Alternatives which will be examined will include residential uses and/or moderate-intensity employment on all or part of the Thomas Farm. Particular consideration should be given to development consistent with and supporting the Life Science Center and related research activities.
- NOTE 2 (Banks Farm) - A future Master Plan Amendment will examine the option of preserving this area as open space and encouraging continued farming of the land.
- NOTE 3 (King Farm) - The King Farm will be reexamined in the context of a future Master Plan Amendment. The possibility of providing a mix of residential and office uses will be explored. The MXP Zone will be considered.
- NOTE 4 - This Plan proposes a linear open space feature which should traverse the Shady Grove West area. The character of this open space area will be determined by the land uses through which it passes.

#### STAGING FOR THE MD 28 CORRIDOR

- Add a new Chapter titled "Staging Recommendations for the MD 28 Corridor", as follows:

##### Staging Recommendations for the Md 28 Corridor

A major concern throughout the Plan process has been traffic congestion along Md 28. Md 28 is currently over capacity and congested during rush hours.

Although road improvements are programmed to provide more highway capacity, residents and various governmental jurisdictions fear that unless future

development is staged very closely to highway availability, Md 28 will continue to experience unacceptable levels of service.

The staging recommendations included in this chapter address this concern.

The primary geographic focus of the staging recommendations is the Shady Grove West area. Staging development in the Shady Grove West area alone, however, will not address the issue of traffic congestion along Md 28. To be meaningful, a staging program must include all undeveloped, unrecorded properties which will ultimately generate traffic in the vicinity of Md 28. It must also examine through trips from Germantown and other areas which use traffic capacity in this portion of the Md 28 Corridor. This Plan's staging recommendations reflect through trips from adjoining planning areas because they are based upon a County-wide traffic model.

Many of the properties in the Md 28 Corridor are now located in Gaithersburg or Rockville or are planned to be annexed by them in the future. As part of this Master Plan process, both municipalities have agreed that these properties should be staged. This is extremely important because neither municipality has staging provisions in their plans or their subdivision regulations. Staging guidelines for key parcels in the Rockville and Gaithersburg portion of the Md 28 Corridor are included in this chapter.

#### What Staging Will Accomplish

The Montgomery County Subdivision Ordinance requires the Planning Board to review all preliminary plans of subdivision for adequacy of programmed public facilities and to deny those for which it finds that existing and programmed public facilities are not adequate.

The APF Administrative Guidelines state that any project which is at least 80 percent funded for construction in the County 6-year Capital Improvements Program (CIP) or in the State Consolidated Construction Program will be considered a part of the transportation network.

The Md 28 Corridor is different from other parts of the County because they may require only one or two road projects to relieve congestion. In the Md 28

Corridor, at least eight major improvements are programmed to accommodate expected development. As a result, development may be approved under existing guidelines based on the traffic capacity provided by numerous roads programmed but not yet under construction. If for any reason, the construction of a project or projects does not proceed on schedule, development may occur before needed traffic capacity exists. Communities along Md 28 may be subjected to long periods of inconvenience as a result.

This Plan cannot prevent "short-term" capacity imbalances during periods of actual road construction. Staging at the Master Plan level, however, will help prevent long periods of inconvenience due to unforeseen delays in the County and state construction program by linking new development to the awarding of road construction contracts rather than just the programming of construction.

The implementation section of this Plan discusses how this will be accomplished.

#### Properties Affected by Staging Plan

The entire Md 28 Corridor is affected by this staging plan. The staging plan recommendations apply to all vacant, undeveloped properties in the corridor with the following exceptions:

- Vacant properties which have been recorded for development are excluded from the staging plan;
- Vacant properties which have approved preliminary subdivision plans are excluded from the staging plan.

Properties in these two categories have already proceeded through the development process and have already been reviewed in terms of traffic impacts. If owners of parcels in either of these two categories apply for resubdivision or if an approved subdivision plan lapses, then new development plans will be reviewed in accord with this Plan's staging recommendations.

### Relation of Staging Plan to Subdivision Review Process

Properties which are shown in the early development stages will proceed through the regular subdivision process. The properties will be analyzed in terms of traffic impact in accord with the APFO Administrative Guidelines. If a subdivision passes the APFO test, the subdivision will be approved with a condition that it may not be recorded until the roads identified in the Staging Plan are under contract for construction. This approach will link the construction of new development to the construction of new roads.

### Staging Guidelines

As noted earlier, the primary objective of the staging plan has been to assure that the pace of development in the Md 28 Corridor is more closely related to available traffic capacity.

Other planning objectives, unrelated to transportation, have also guided the staging recommendations. They are:

- Office development in Shady Grove West should be staged over time to allow the market to evolve for higher intensity mixed uses envisioned by the Master Plan.
- Residential and office uses should be included in all phases of development to implement the Master Plan objective "to provide the opportunity for people to live and work in the same community." The appropriate balance between residential and office development is an issue of judgment as to the County's and each local area's relative employment, fiscal, and housing needs.
- The amount of development proposed in each stage reflects judgments as to road capacity and user demand. If a subdivision is so designed and located as to facilitate public transit service, then additional development may be possible when transit service is programmed or provided. Similarly, if additional highway studies find more or less traffic capacity, then the specific recommendations of this Plan can and should be modified.

- Existing farming operations (Thomas, Crown) should be placed in latter stages of development to encourage their continuation for some time. These farms may well remain in agricultural use for some time, but eventual conversion of the Crown Farm would be desirable from a planning perspective in order to achieve the residential development envisioned in the Gaithersburg Vicinity Master Plan. The ultimate development of the Banks Farm is desirable but a future Master Plan Amendment will determine the ultimate land use.
- Any staging policy for an area as large as this and with as many new highway projects will have to be reviewed and changes as new information becomes available. If any changes to the staging recommendations are deemed necessary, they will be made in the context of a Master Plan Amendment. In any event, a comprehensive Master Plan Amendment will occur before Stage III.
- Parcels which are already recorded which apply for resubdivision or which have approved preliminary subdivision plans which lapse will be reviewed in the same manner as a new preliminary subdivision plan.

Proposed Stages of Development: Shady Grove West Area

This Staging Plan makes detailed recommendations for the Shady Grove West portion of the Md 28 Corridor. For the balance of the Md 28 Corridor, more generalized recommendations are presented since properties in the cities of Gaithersburg and Rockville are involved as well as properties in other County planning areas (Potomac, Shady Grove Sector Plan).

Three stages of future development are proposed by this Plan. Stages I and II include a series of transportation improvements and a certain amount of residential and non-residential development. Road improvements have been grouped according to their programmed or planned construction dates. Roads have been identified individually because different parcels are staged to the construction of different roads. Stage III will be defined in the context of a future Master Plan Amendment.

In order to develop a consistent and integrated staging approach, the staging recommendations of this Plan are complementary to the Planning Board's 1984 Comprehensive Planning Policy Report(CPP) and the development thresholds described therein.

Development for Stage I has been allocated based upon the traffic studies done as part of the CPP. Stage I includes those programmed roads which were analyzed by the Montgomery County Planning Board staff as to capacity as part of the 1984 CPP Report. The CPP analysis also reflects the significant changes in transit availability throughout the County and Gaithersburg area associated with the opening of Metrorail to Shady Grove.

Development in the Shady Grove West area in Stage I will absorb only a portion of the roadway capacity for the Md 28 Corridor and an even smaller percentage of that allocated to the Gaithersburg Policy Area by the CPP.

Stage I includes a large number of roads and spans six years. Some development is keyed to roads which are scheduled to be constructed in the next one or two years; other development is keyed to roads which will be built later in the six-year period. Stage I does not include already approved and recorded plats because they have already been accounted for in determining threshold capacity remaining at the beginning of Stage I development.

The majority of development in Stage I permits office uses -- primarily in the Life Sciences Center. Residential development must be constrained because previously approved subdivisions and already approved record plats elsewhere in the Md 28 Corridor have absorbed the residential threshold for this area. Since the immediate road capacity problem is Md 28 itself, the residential component of Stage I involves properties oriented primarily to I-270 and Shady Grove Road.

STAGE II includes road projects which were added to the 1985-90 CIP by the Montgomery County Council. Although only three roads are involved in Stage II, they will add significant traffic capacity to the Md 28 Corridor area.



During Stage II, the key roads required to support the Washingtonian property along I-270 will be under construction (I-370 Extended, I-370 Metro Connector, Fields Road). The extension of Key West to Gude Drive will help relieve the Shady Grove Road/I-270 Interchange, thereby aiding the entire Shady Grove area. The I-370 Metro Connector may only be contracted for construction to Fields Road and not to Great Seneca Highway during Stage II. Traffic studies done at time of subdivision will take into account the status of I-370.

Traffic capacity along "old" Md 28 will still be a problem in Stage II. Therefore, even the amount of residential development shown in Stage II may not be possible as a result. The APFO review at time of subdivision will determine the number of units which can be built. Any improvement to existing Md 28 would relieve this staging constraint.

STAGE III includes all Master Plan roadways not yet programmed for construction. These roads are critical to full development of the Md 28 Corridor area. The widening of I-270 is now being studied and design work is underway. This Plan strongly recommends that the State Highway Administration begin work on a Md 28 study since a significant portion of the development in Stage III relates to Md 28.

Stage III may be broken down into more stages as individual road projects are programmed for construction and as more detailed traffic studies are completed. A Master Plan Amendment will precede Stage III. Individual Master Plan Amendments might be introduced prior to the Stage III Master Plan Amendment if circumstances warrant.

#### Staging Guidelines for Portions of Route 28 Corridor Outside Shady Grove West

As stated before, the staging recommendations for Shady Grove West will only be effective if vacant properties in the balance of the Md 28 Corridor are also staged. The majority of development occurs in Stage III, thus allowing both Rockville and Gaithersburg adequate time to amend their master plans and regulatory processes to include a staging element.

The following staging guidelines are proposed by this Plan for vacant properties outside the Shady Grove West area.

Washingtonian Industrial Area

1. The base zone for vacant land in the Washingtonian Industrial park should be I-1 and I-4. The I-4 Zone allows offices only as special exception uses. This will allow applications for office development to be closely examined in terms of traffic generation. An application for O-M or I-3 zoning would be appropriate once Gaither Road, Fields Road and I-370 Metro Connector are under construction. More detailed traffic studies at time of zoning will help determine the actual amount of office square footage.

Additional small-scale office "infill" may be permitted if detailed traffic studies indicate adequate intersection capacity.

King Farm

1. The zoning for the King Farm should continue to be R-200. A Master Plan Amendment which will examine Metro accessibility will precede rezoning. This Amendment will examine the possibility of providing a mix of residential and office uses, a major open space component and the suitability of the MXPD Zone for all or part of the King Farm.
2. A Master Plan Amendment will precede the rezoning of the King Farm.

Recommended Guidelines for Parcels in City of Gaithersburg

The City of Gaithersburg Master Plan should be amended in a timely manner to include staging guidelines which are complementary to those suggested for Shady Grove West. Staging guidelines are particularly important for the following parcels:

1. The Kent Farm — The City of Gaithersburg Master Plan designates the Kent Farm as a "concentric generator" with a mix of residential, retail, and office uses. The City's Plan should be amended to include a staging element which links build-out to needed road improvements.

2. The balance of the National Geographic property -- Although there are no plans at this time to expand National Geographic, this eventuality must be addressed.
3. Any future development of the GEISCO property beyond existing approvals.

Recommended Guidelines for Parcels in City of Rockville

1. This Plan postpones a decision on the ultimate land use for the Thomas Farm until a future Master Plan Amendment. The widening of Rt. 28 south of the Thomas Farm and the widening of Ritchie Parkway are critical transportation events for Stage III development of the Thomas Farm. Development should therefore be staged to necessary road improvements.

The Thomas Farm is within Rockville's maximum expansion limits (MEL). If the Thomas Farm is annexed by the City of Rockville, the city should amend its Master Plan to link development to the widening of Md 28 south of the Thomas Farm and a timetable for the widening of Ritchie Parkway.

2. The Rockville Master Plan should be amended to incorporate an appropriate staging element for the portion of the King Farm located within the Rockville maximum expansion limits. Alternatively, development should be staged in accord with the recommendations of the Shady Grove Sector Plan and the Gaithersburg Vicinity Master Plan at time of annexation.

Potomac Master Plan Area (Parcels in Md 28 Corridor Area)

1. Future development in this area south of Md 28 should be staged to additional highway capacity along Md 28 as well as other Stage III highway improvements. This highway capacity could be provided either by widening Md 28 to 4 lanes east to the I-270 interchange or by widening Key West Boulevard to 6 lanes.

### Linking Future Development to Road Construction

This Plan recommends that roads identified in the staging plan should be under contract for construction before new development can proceed. To implement this policy, record plats for new development should not be approved until the construction contracts for the appropriate roads have been awarded.

The policy is different from current subdivision review procedures which consider any road that is 50 percent funded for construction in the County or State CIP as adding traffic capacity. The reasons for proposing a different approach in the Md 28 Corridor are existing traffic conditions, the magnitude of future road projects, and community concern about possible slippages in the road construction program.

### IMPLEMENTATION STRATEGIES

The actions which are necessary to implement the staging recommendations are discussed in the Implementation chapter. A summary of these actions follows:

- Zone properties shown in Stage III as R-200; a Master Plan Amendment will precede rezoning to a higher density. Stage III should be amended when the impacts of Stage I and II can be evaluated and when the timing of Md 28 improvements and I-270 widening is known.
- Any MXPd applications could be accepted at any time as long as the staging component of the MXPd application conforms with the staging for the subject property in the Plan.
- Change the sewer and water service priorities for all properties shown in Stage III to Priority 2 - no service envisioned for at least 6-10 years.
- Amend the administrative guidelines for the Adequate Public Facilities Ordinance to permit the staging approach outlined in this chapter (that is, the recording of new development plats should be linked to the awarding of contracts for the construction of new road).

- Amend the Master Plan before Stage III and follow the Master Plan Amendment by a Sectional Map Amendment.
- Reexamine the 10-Year Water and Service Plan recommendations as part of the Master Plan Amendment which will precede Stage III.

Add table titled "Proposed Staging for Parcels in Area of Md 28 Corridor", indicating permitted office, retail, and commercial square footage, and related road improvements by Stage, as follows:

PROPOSED STAGING FOR SHADY GROVE WEST AREA OF THE MD 28 CORRIDOR (Prepared 1994)								
(Office, retail, commercial uses expressed in square feet; residential uses expressed in dwelling units) Footnotes are explained in accompanying text.								
STAGE	I		II		III			
EVENTS <sup>a</sup>	a. Shady Grove West to 4 lanes FY 86-87. b. Shady Grove/I-270 Interchange. c. Omega Drive <sup>b</sup> d. Key West 2 lanes from Shady Grove to MD 28 and MD 28 road improvements FY 83-84. e. Fields Road-Placid Drive/MD 213. <sup>c</sup>		2. Calther Road <sup>d</sup> 3. Quince Orchard Road FY 83-84. h. Fields Road-Muddy Branch FY 84-90. i. Key West widening to 4 lanes between Shady Grove Road and Great Seneca. j. Great Seneca Highway, Key West to Quince Orchard. k. I-370 Metro Connector FY 86-87 <sup>e</sup>		l. I-370 Extended FY 88-90. m. Key West as 2-lane road between Shady Grove Road and Gude Drive. n. Muddy Branch as 4-lane road FY 86-90. o. Widening of I-270. p. Extension of Key West from Gude Drive east to MD 28. q. Widening of MD 28 from 2 lanes to 4 lanes or widening of Key West to 6 lanes. r. Widening of Key West between MD 28 and Great Seneca from 2 to 4 lanes and Great Seneca connection. s. Widening of Ritchie Parkway (MD 28 to Falls Rd.) t. Great Seneca Highway (Quince Orchard to Middlebrook).			
	Sq. Ft.	D.U.	Sq. Ft.	D.U.	Sq. Ft.	D.U.	Sq. Ft.	D.U.
MAXIMUM ALLOWABLE DEVELOPMENT								
A) Corporate District (Washington)	725,000 (b,c)	750	-	-	1,300,000 (b,d)	-	2,700,000 (e) See Note 6	750
B) R&D District	225,000 (b,c,d)	-	125,000 (f)	-	225,000 (m)	-		
C) Bio-Technology District (Life Sciences Center)	600,000 (b,c,d)	-	300,000 (f)	-	600,000 (m)	-		
D) University District <sup>3</sup>	-	-	-	-	-	-		
E) Conference Center/R&D District	-	-	-	-	-	-		
F) Residential District	-	250 (b,c,d)	-	250 (f)	-	250 (f)		
G) MD 28 Residential District	-	30 (b,c)	-	30 (f)	-	200 (f,m,n)		
H) Residential/R&D District (Thomas Farm)	-	-	-	-	600,000 (b,d,m)	-		
TOTALS	1,350,000	1,050	425,000	300	2,325,000	950	2,700,000	750
TOTALS STAGE I & II					6,100,000	1,800		

## FOOTNOTES

- Some roads will be constructed during the time frame of Stages I and II but they are not staging events for Shady Grove West. They are shown for information. The roads which are needed for development in a district to proceed in Stage I must be under construction before Stage II can proceed.
- The I-370 Metro Connector will be constructed during the time frame of Stage I but it will not become important to Shady Grove West until I-370 Extended is completed in Stage II.
- The maximum allowable development shown in this table may only occur if a subdivision passes local area review (see Implementation section) at time of subdivision. The local area review process allows the traffic impact of a subdivision to be examined in more detail than at the Master Plan level and includes an examination of traffic impacts on nearby intersections.  
  
The threshold for residential development in the Gaithersburg Policy Area is now 0. Additional residential development will only be approved under the threshold flexibility provisions or discount provisions of the Adopted Guidelines for administering the Adequate Public Facilities Ordinance.  
  
The threshold flexibility provisions allow approval above the threshold to be conditioned upon the future construction, by either the applicant and/or the government, of some public facility projects or the operation of a transit program which, if added to the approved Capital Improvements Program (CIP) as a programmed facility, will add capacity to the road network and result in the subdivision meeting the adequacy tests of local area review and will not result in lowering the areawide level of service.  
  
The discount provisions may permit subdivisions of 49 units or less to proceed if, in the judgment of the Planning Board, previously approved subdivisions in the area will not proceed to construction within 6 years.  
  
For a more complete discussion of APF guidelines, see the most recently adopted Comprehensive Planning Policies Report.
- The NUS property (Area B-2) is presently zoned O-M. Unless the property owner applies for a change in the record plat or resubdivides the property or applies for the MXPD zone, the staging recommendation of this Plan would not apply to future development.
- The University District is part of the Life Sciences Center and is included in the staging recommendations for the Life Sciences Center.
- Development shown in Stage III could proceed prior to the widening of I-270 subject to future construction, by either the applicant and/or the government, of some other public facility projects or the operation of a transit program which, if added to the approved Capital Improvements Program (CIP) as a programmed facility, will add capacity to the road network and result in the subdivision meeting the adequacy tests of local area review and will not result in lowering the areawide level of service.
- This capacity might be obtained by the programming of Md 28 improvements instead of "l, m, n" if such a substitution would result in acceptable levels of service and is supported by traffic studies done at time of subdivision. This Plan designates the end state land use as R-90/TDR-4, but the balance of this development will be subject to staging decisions in the Stage III Master Plan Amendment.
- If the segment of Key West Boulevard east of Gude Drive moves forward faster than anticipated in staging plan, this parcel could move forward to development.

- Amend table titled "Proposed Staging for Parcels in Md 28 Corridor Outside of Shady Grove West", indicating permitted office, retail, and commercial square footage, and related road improvements by Stage for areas outside of the Md 28 Corridor to note a Master Plan Amendment will precede Stage III.

#### MONTGOMERY COUNTY AIRPARK

- Add new paragraph at end of section titled "Relationship of Airpark Operations to Future Land Use", on page 54, to read as follows:

A Task Force has been established by the County Council to assess the importance (or necessity) of having an airpark located in Montgomery County and if an airpark is deemed important, to evaluate its current location and either develop recommendations for strengthening support for its current location or recommend alternative locations. The land use pattern proposed by this Plan should be reexamined in light of the findings of the Task Force.

- Amend section titled "Relationship of Airpark to Rock Creek Planning Area", on page 54, to delete the Fulks Property from the Gaithersburg Vicinity Plan Study Area.

#### PLAN IMPLEMENTATION

- Revise section titled "Sectional Map Amendment (SMA)", on page 117, to read as follows:

##### Sectional Map Amendment (SMA)

An SMA is a comprehensive rezoning process which zones all properties within the Planning Area to correspond with the zoning recommendations in the master plan. The Planning Board files the SMA and the Council, after public hearing, adopts the zoning. Once the rezoning occurs, it is the legal basis for all future local map amendment requests.

The SMA only implements euclidean (base) zones and those floating zones having the owners concurrence and which do not require a development plan at the time of rezoning. The Planned Development (PD) Zone and Mixed-Use (MXPD) Zone require separate applications as local map amendments.

A Sectional Map Amendment for the entire Gaithersburg Vicinity Planning Area will be filed once this Plan is approved.

In the Shady Grove West area, all properties not recommended for development until Stage III will be zoned R-200; most of the affected properties are already zoned R-200.

Rezoning of these parcels must await adoption of a Master Plan Amendment.

All other properties will be zoned in accord with the base zoning recommendations described in the land use and zoning chapter.

Revise section titled "Zoning Text Amendments", on page 117, to read as follows:

#### Zoning Text Amendments

[The MXPD Zone and the I-4 Zone have been developed in connection with this Plan. These regulations provide the ability to achieve the type of diverse development recommended by the Plan.]

[The proposed MXPD Zone permits the development of an integrated mixed-use development. It is intended to be used primarily for employment and commercial centers but residential uses are also permitted. The proposed I-4 Zone encourages the development of industrial and warehouse space for industrial firms either just getting started or doing well enough to construct their first building. Office uses are a special exception in the I-4 Zone; approval of office development will depend in part on the traffic capacity of nearby roads.]

During the course of this Plan process, it became evident that modifications to the I-3 (Light Industrial) Zone are needed to accommodate the changing



character of research and development firms. The I-3 Zone should be examined and amended prior to or in concert with the adoption of a future Master Plan Amendment.

- Revise section titled "Capital Improvements Program (CIP)", on page 118, to read as follows:

#### Capital Improvements Program (CIP)

The CIP is the County's funding and construction schedule over a six-year period for all public buildings, roads and other facilities planned by the public agencies. The County Executive is responsible for its yearly preparation. When approved by the County Council, it becomes an important part of the staging mechanism for the Plan.

The Technical Appendix of this Plan identifies projects that are either currently scheduled or which should be included in the future to implement Master Plan recommendations. Those projects currently scheduled are listed as well as those recommended by this Master Plan. The County and State agencies responsible for design and development of each project are indicated.

#### Water Supply and Sewerage Systems Plan

The Comprehensive Ten-Year Water Supply and Sewerage System Plan is the county's program for providing community water and sewerage service. Most of the Gaithersburg area is either currently being served or scheduled to be served in the near future.

The following list describes three levels of sewerage and water distribution priority recommendations used throughout this section:

Priority 1:      Designates that service is existing or planned within 6 years.

Priority 2:      Designates that service is planned within a 7-10 year period.

Priority 3:      Designates that service is not planned within a 10 year period.

- Add new paragraph in section titled "Sewer Service and Systems Adequacy", on page 28, to read as follows:

#### Sewer Service and Systems Adequacy

Most of the Gaithersburg area has sewer service readily available and with the exception of the Gudelsky-Percon area south of Md 28, most of the area north of the Airpark and in Shady Grove West Area could be served in the future by minor extensions of the existing sewer system.<sup>2</sup> They are in the Priority 1 Service Category.

[The timing of sewer service affects when a property may develop. In the Airpark Area, where traffic capacity is of such concern, the extension of sewer service should be keyed to the timely provision of needed road improvements. For this reason, property located in Analysis Area 58 should not be designated for sewer service until Airpark Road Extended is programmed for construction. Until that time, the property should remain "Priority Two" in terms of sewer service (see map on page 120).]

To the north of Analysis Area 58 is the Goshen Estates property for which sewer service is not envisioned. The Plan assigns this parcel "Priority Three."

All other properties in the Airpark Area are shown as "Priority One", which will enable the property owners to proceed through the subdivision process. (These properties will still be subject to the Adequate Public Facilities Ordinance.)

To help implement the staging recommendations for the Shady Grove West Area, properties which are not recommended for development until Stage III are shown as "Priority 2" (see map on page 29). The properties affected include the Banks, Thomas, King, Kent, Percon and part of the Crown Farms. The "Priority 2" designation will help defer development by deferring the extension of sewer service. A sewer category change for these parcels should not be approved until the Master Plan Amendment which is to precede Stage III is completed.

<sup>2</sup>WSSC is preparing a Western Montgomery County Facilities Plan which will determine adequacy of the existing system and assess future needs.

- Revise section titled "Comprehensive Planning Policies (CPP)," on page 119, to read as follows:

#### Comprehensive Planning Policies (CPP)

In 1982, the Board adopted its first Annual Comprehensive Planning Policies (CPP) Report. The CPP incorporated a new set of guidelines for the Board to follow in administering the APF Ordinance. Thus, the interrelationship of the various County programs and plans, particularly in terms of the provision of public facilities, is more clearly defined. The CPP is used as a growth management tool. As the Board reviews and updates it yearly, there is the opportunity to reevaluate whether proposed public facilities are adequate to serve anticipated development.

Future CPP Reports will incorporate by reference the staging recommendations of this Master Plan. This will mandate a more rigorous APF test in terms of transportation adequacy. A record plat for a subdivision may be [[filed]] approved only when the major roads used in the traffic analysis are under contract for construction. Although the staging plan identifies which roads are to be considered as staging events, other roads may be required as the result of more detailed traffic studies.

By "under contract for construction," this Plan intends that a contract has been signed for construction of a road.

The chart on page shows how the Shady Grove West Staging Plan recommendations will be incorporated into the standard APFO subdivision review process.

- Revise section titled "Transfer of Development Rights (TDR)," on page 119, to add paragraph at end of section, to read as follows:

#### Transfer of Development Rights (TDR)

This plan recommends the use of TDR's on several properties which are located within the expansion limits of the cities of Rockville and Gaithersburg. The

Plan recommends that the cities and the county explore mechanisms for the accomplishment of these designations. Requiring the recordation of TDR easement at the time of annexation may be a method of achieving this goal. This plan does not recommend the automatic advancement to Priority I sewer service on TDR receiving areas designated in Stage III.

- Revise section titled "Annexation Policy Guidelines," on page 126 and 127, to add paragraph at end of section, to read as follows:

#### Annexation Policy Guidelines

##### A Process for Addressing Areas of Mutual Concern

This plan recommends that the county and the municipalities of Rockville and Gaithersburg enter into the following two agreements:

1. The cities of Rockville and Gaithersburg, in concert with the county, should agree to adopt a mutually acceptable staging approach for the Md 28 area, and agree to establish a system for the remaining I-270 corridor area. This staging program can be tailored to each jurisdiction but should be consistent in terms of data and methodology.
2. The cities of Rockville and Gaithersburg and the county should agree to develop a memorandum of understanding on maximum expansion limits and annexation issues. This agreement would provide the policy basis for reviewing all future annexation applications.

#### COMMUNITY FACILITIES

- Amend section titled "Public Schools," on page 95, to read as follows:

##### Public Schools

The Board of Education's (BOE) demographic projections show a continued decline in projections are consistent with the Planning Board's growth forecast model. Based on these projections, the planned number of school sites indicated in the proposed Land Use Plan (see foldout map) have been significantly reduced from the 1971 Gaithersburg Vicinity Master Plan.

Two new high schools are needed in the Gaithersburg area to relieve secondary school overcrowding and to provide grades 9-12 high school in Area 3. The Board of Education has approved project planning funds for a new high school to be located west of I-270 in the Quince Orchard/Md 28 area. The amount and type of new residential development that is anticipated in the Gaithersburg area may require the construction of one or more new schools. Therefore, currently owned school sites in Gaithersburg should be retained until such time as the Board of Education can determine whether they will actually be needed for future school construction.

Four school sites in Gaithersburg have been declared surplus or unneeded (see map on page 96). The future use of these sites is a major land use concern. Although any recommendation of the use of former school sites must go through a separate review procedure by the County government, the Planning Board has analyzed the potential land use of these sites as part of the planning process. The Seneca High site (now referred to as Watkins Mill) is no longer considered unneeded. The County Council has approved the necessary construction funds for the new high school to serve the area east of I-270. The recommendations for disposition of the other sites are as follows:

- Delete paragraph under section titled "Public Schools," on page 97, as follows:

[Seneca High (33 acres)]

[This site is located on the western edge of Montgomery Village, adjoining Seneca Creek State Park. According to the BOE staff, this site is poorly located in view of current pupil yields and development plans and should be conveyed to the County. The Plan recommends that this site be used for residential development and that the existing R-200 zoning be retained as a base zone, with an option to increase density to TDR-4.]

- Amend section titled "Public Schools", on page 97, to designate THE 32 acre Centerway High School Site (located east of Strawberry Knoll Road and adjacent to Flower Hill Planned Community) R-200 as the base density and TDR-4 as the optional density on the proposed Zoning Map.

## SMOKEY GLEN STUDY AREA

- Designate on zoning map additional C-1 zoning (6,300 sq. ft.) for parcel fronting Md 28 near Quince Orchard Road, adjacent to Suburban Trust Drive-In Bank.

## NON-CONTIGUOUS PARCELS

- Revise table 4, "Non-Contiguous Parcels," on page 73 and 74, as follows:
  - Analysis Area 3 - indicate that the exact amount of commercial zoning will be determined at the time of the Sectional Map Amendment.
  - Analysis Area 6 - delete text and other references regarding subject 36-acre parcel recently annexed by City of Gaithersburg.
  - Add Analysis Area 10 to designate 93-acre Asbury Methodist Home property as R-90.
  - Add Analysis Area 11 to designate 5-acre vacant property south of Md 28 adjacent to City of Rockville Corporate Limits from R-200 to R-90.
  - Add Analysis Area 12 to designate AS R-90 the 39-acre parcel consisting of several existing single-family residences and vacant land [[R-90]].
  - Add Analysis Area 13 to indicate R-90 as the base density and TDR-5 as the optional density for the property north of Clopper Road adjacent to Bennington Subdivision.

## APPENDICES

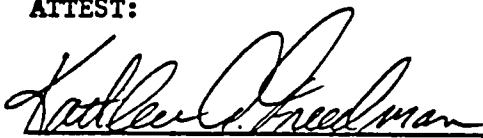
Appendices to be reorganized and updated.

## GENERAL

All figures and tables are to be revised where appropriate to reflect County Council changes to the Final Draft Gaithersburg Vicinity Master Plan. The text is to be revised as necessary to achieve clarity and consistency, to update factual information, and to convey the actions of the County Council. All identifying references pertain to the Final Draft Gaithersburg Vicinity Master Plan document dated September, 1983.

A True Copy.

ATTEST:

A handwritten signature in cursive script, appearing to read "Kathleen A. Freedman", is written over a horizontal line.

Kathleen A. Freedman, Acting Secretary  
of the County Council for  
Montgomery County, Maryland

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## Notes



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## Notes

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# Notes

## **STAFF ACKNOWLEDGEMENTS**

### **Staff Members Having Primary Responsibility for the Approved and Adopted Plan:**

#### **Supervisor:**

Perry Berman, Chief, Community Planning  
North

#### **Planner-in-Charge:**

Lyn Coleman, Community Planning North

#### **Primary Planning Team:**

Nellie Maskal, Community Planning North  
Larry Ponsford, Urban Design

### **Staff Members Who Made Significant Contributions to the Final Plan:**

#### **Community Planning North**

Doris Skelton  
John Matthias  
Marsha Kadesch  
Marty Reinhart  
Bill Landfair

#### **Community Relations**

Patricia Plunkett

#### **Development Review**

Joseph Davis  
Joan Yamamoto

#### **Mapping and Graphics Design**

Marie Elaine Lanza  
Victoria Kline-Atwood  
George Marenka

#### **Editorial**

Mary Goodman  
Lael Holland

#### **Environmental Planning**

Francis Agyei  
Candy Amatayakul  
Nazir Baig  
Stephen Federline  
John Galli

#### **Parks Department**

Myron Goldberg  
Tanya Schmieler  
Eugene Elliott, Jr.

#### **Research and Special Projects**

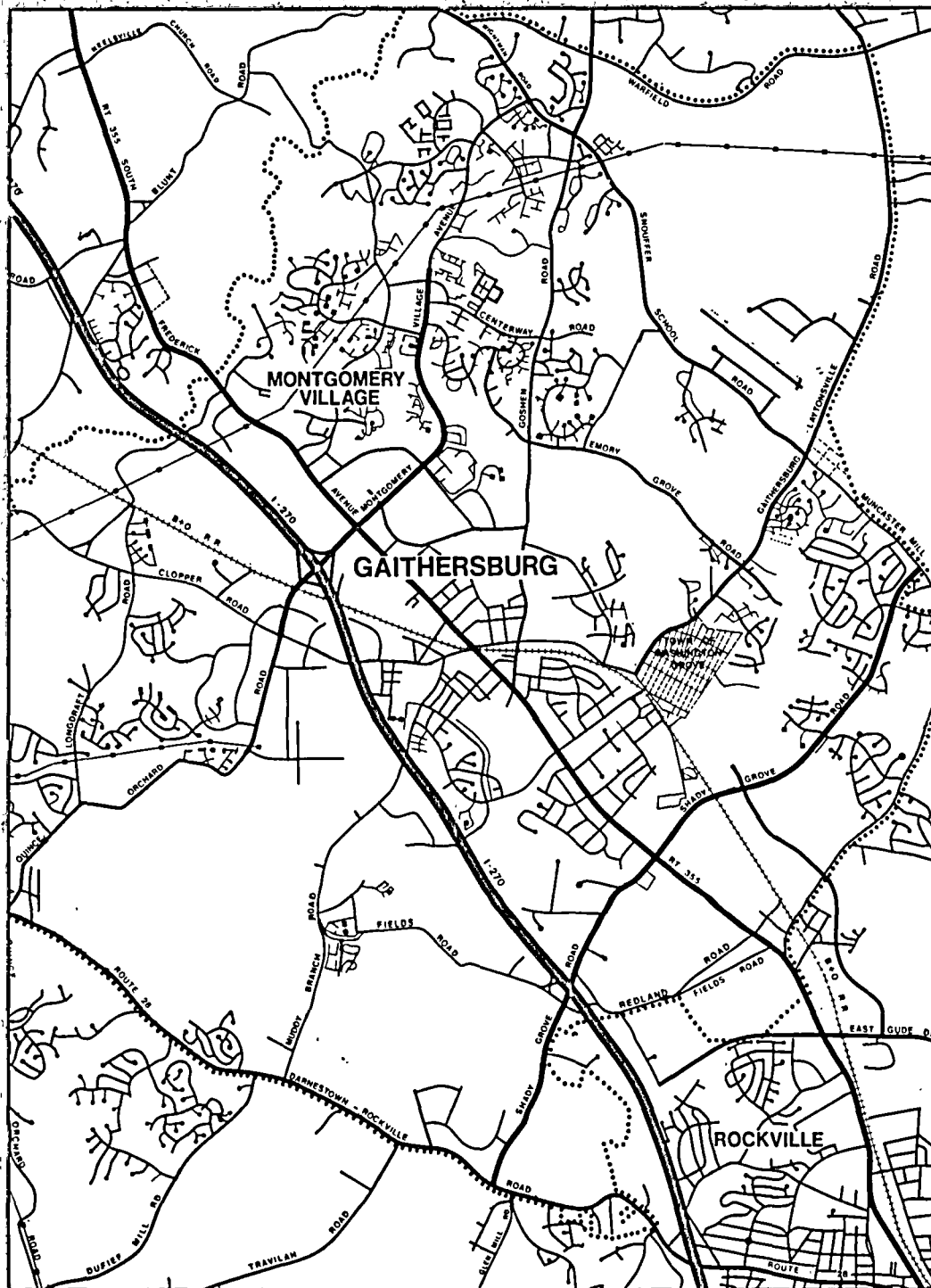
Bernard Horn  
Jeffrey Zyontz

#### **Transportation Planning**

Ki Kim  
Robert Winick  
Pat Willard  
Bud Liem

#### **Word Processing**

Marie Steingrebe  
Florence Taylor



**The Maryland National Capital Park and Planning Commission**