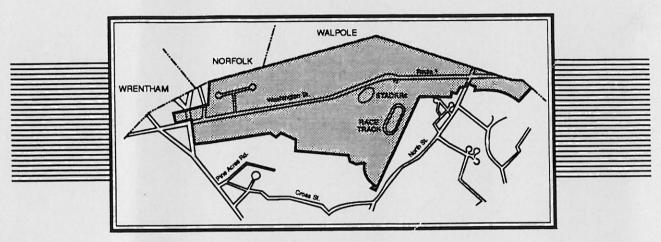
Tim Higgins 543-1250

### TOWN OF FOXBOROUGH SPECIAL USE (S-1) ZONING DISTRICT MANAGEMENT PLAN



JUNE 30, 1989

This project was funded through a Special Project | Strategic Planning Grant made by the Executive Office of Communities and Development (EOCD).

SUBMITTED BY: HMM ASSOCIATES, INC.

IN ASSOCIATION WITH:
EDITH M. NETTER & ASSOCIATES
75 STATE STREET - 6TH FLOOR
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HMM ASSOCIATES, INC.

ENGINEERS, ENVIRONMENTAL CONSULTANTS & PLANNERS

# TOWN OF FOXBOROUGH SPECIAL USE (S-1) ZONING DISTRICT MANAGEMENT PLAN

June 30, 1989

Submitted to:

TOWN OF FOXBOROUGH Growth Management Study Committee

Submitted by:

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This project was funded through a Special Project/Strategic Planning Grant Award made by the Executive Office of Communities and Development (EOCD).

MECELL.

JUL 3 1 1989

PLANNING BOARD

2876/2291E

### **ACKNOWLEDGEMENTS**

The Consultants wish to acknowledge with appreciation the members of the Town of Foxborough <u>Growth Management Study Committee</u> who put in long hours in assisting in the preparation of this S-1 Distrct Management Plan:

- Timothy D. Higgins, Planning Administrator
- Michael J. Coppola, Co-Chair
- Donald J. Schmidt, Co-Chair
- Allen F. Curtis
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# TOWN OF FOXBOROUGH SPECIAL USE (S-1) ZONING DISTRICT MANAGEMENT PLAN REPORT

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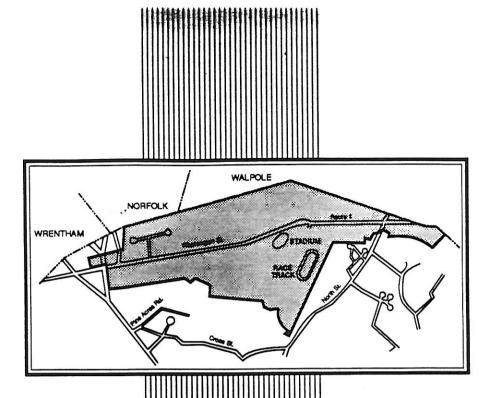
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### 1.0 INTRODUCTION

### 1.1 Purpose of Study

The Town of Foxborough has experienced increasing development pressure and growth over the past few years. Pressure within the Special Use (S-1) zoning district has been particularly extreme. Development in this area has outstripped current municipal infrastructure limitations. In particular, low-water pressure, lack of municipal sewer, environmental constraints, traffic and parking problems associated with Sullivan Stadium, and water quality protection needs for the Route 1 Town Well have led the Town to review its existing regulations governing land uses within this area. The approximately 800-acre Special Use (S-1) zoning district was established by the Town to include a variety of non-residential land uses. The Foxborough Industrial Park, Sullivan Stadium, Foxborough Harness Raceway, and Conrail tracks are all located within the Special Use (S-1) zoning district, they present various opportunities and development options.

The Town of Foxborough wishes to implement regulations which will promote growth management and land use policies in the Special Use (S-1) zoning district. It also desires to establish a legally defensible impact fee system, which will accurately gauge costs associated with the additional impacts on the Town while allowing development to proceed.

This infrastructure impact and management plan study has been funded through an Executive Office of Communities and Development (EOCD) Special Project/Strategic Planning Grant. These funds were also used to establish immediate regulations needed to manage growth in the Special Use (S-1) zoning district. The study identifies potential municipal infrastructure and service impacts from a maximum zoning build—out to create the scenario for an impact fee schedule rationale and to lay the groundwork so that the Town will be prepared to establish such a fee following adoption of state enabling legislation, expected to be passed in the near future. To address the immediate needs for the S-1 District, specific zoning modifications are recommended as a growth management technique to assure that the Town's Planning goals for the Route 1 corridor are reinforced.

### 1.2 Executive Summary

In September, 1988, the Town of Foxborough was awarded a \$20,000 Special Project/Strategic Planning Grant from the Executive Office of Communities & Development (EOCD) to review the existing development controls within Route 1's Special Use (S-1) zoning district, and to identify potential municipal infrastructure and service impacts from possible new development. The study grant was also directed at considering an impact fee system.

### o Current Municipal Regulations (Prior to May 1989, Town Meeting)

The S-l zoning district by-law, adopted by the Town of Foxborough in 1972, was designed to accommodate and facilitate the development of non-residential uses. The permitted use table lists an assortment of uses which are permitted as of right or by special permit. However, neither the use controls nor dimensional requirements provide the necessary protections to nearby residential areas. They also do not adequately reflect the Town's goals for Route 1.

Other by-laws or environmental regulations which currently exist within the S-1 District include the Wetland Protection and Floodplain Overlay Districts; Water Resource Protection District, which limits hazardous waste storage and the amount of impervious land; and the EPA's Federal Sole Source Aquifer Regulation, which includes portions of Foxborough, sets up a review for projects which may contaminate the aquifer through a recharge zone.

### Land. Use and Vacant Land Inventory\*

The dominant land use in the S-1 District is the Sullivan Stadium and Foxborough Harness Raceway (29% of the total district). Over 60% of the land in the S-1 District is vacant or undeveloped. The developed land in the district is primarily commercial. Commercial uses in the district include automobile retail and service, restaurants, motels, and offices (only 0.5% of the total district is residential).

### o Natural Resources Inventory

The largest wetland system in the S-1 District is located in the southeastern portion, east of Route 1 and north of Pierce Street.

Since the Town's sewer system does not service the S-1 District, the presence of poor soil conditions for on-site sewage facilities are a potential development constraints. The poorest soils for on-site sewage systems are located in the southern and western portions of the district. Sewage treatment can be installed in areas delineated on the soil potential map with medium and high potential (see Figure 3).

Protection of the Route 1 Town Well, which is located in the southern portion of the S-1 District, is provided for in the Water Resources Protection Overlay District Zoning By-Law completed for the Town by SEA Consultants, Inc. This By-Law was adopted by the Town Meeting on May 11, 1989 (Appendix B).

### o Growth Projections

The future development potential of Sullivan Stadium and Foxborough Raceway was the major focus of the development build-out analysis completed by the Metropolitan Area Planning Commission (MAPC). Three build-out scenarios were considered including both maintaining and eliminating the Stadium and Raceway. Under an office/retail reuse scenario, with both the Stadium and Raceway being eliminated ("worst-case" scenario),

<sup>\*</sup> Land use and vacancy data was calculated from the Metropolitan Area Planning Council's June 23, 1986 Foxborough Non-Residential Build-Out Analysis (Appendix A).

almost 8 million gross square feet of new commercial floor area could be constructed with the addition of approximately 30,000 new employees in the Town. While this build—out reflects the maximum allowable under existing zoning (minus unbuildable wetland portions), not all of this space would be built at once. Based on Foxborough's recent non-residential space absorption of approximately 200,000 – 300,000 gross square feet during the past couple of years, it could take 20–25 years for all of this land to be absorbed in the non-residential market.

### o <u>Associated Impacts from Growth Projections</u>

- 1) Water Supply To meet the projected 614,307 gallons per day (gpd) requirements of the "worst-case" build-out for the S-1 District, an additional Town well would be needed to go on-line during the 20-25 year build-out period.
- Sewage Generation With full build-out, 558,461 gpd of sewage would be generated. While package treatment plants could be utilized to meet this requirement, there are a number of locations particularly in the southern portion of the S-1 District where septic systems would not be appropriate due to the soils' poor percolation rates. (Package treatment sewer facilities are self-contained systems designed to handle sewer and wastewater on a localized level.) While these facilities would be ideal for the S-1 zoning district area, they are strongly discouraged for use in Massachusetts. However, the Department of Environmental Quality Engineering (DEQE) is currently reviewing standards and specifications in the State.

The area within the Town's well protection zone should also be avoided for new sewage systems. However, facilities which provide tertiary treatment can be constructed within the Zone III areas.

3) Traffic - With full build-out, Route 1 would have to be widened to a six-lane divided highway from I-495 to North Street within ten years. A free-flow right-turn lane would have to be added eastbound on North Street; a second left-turn lane added northbound on Route 1 at North Street; and revised signal phasing and increased signal cycle at Route 1 and North Street. All of these improvements are estimated to cost approximately \$5 million (1989 dollars).

### o Sullivan Stadium Considerations

Parking - Impacts based on a 1985 HMM Associates study for the Sullivan Stadium owners, current parking supply at Sullivan Stadium and adjoining parking lots is 14,232 spaces. This is below total demand of 16,171 for a sell-out event at the Stadium, which could bring in an estimated 60,000 persons, and creating a shortfall of 2,039 spaces.

- 2) <u>Pedestrian</u> Off-site satellite parking areas create major pedestrian problems. Additional parking at Sullivan Stadium would reduce dangerous pedestrian activity along Route 1 for Sullivan Stadium events.
- Rail Access There are special football trains running to Foxborough from South Station for the eight home games during the fall. This method of travel could eventually lead to reduced highway congestion along Route 1, fewer parking space demand, and pedestrian safety (since pedestrians need not cross Route 1 to get to the Rail Station.

### o Planning Objectives and Goals for the S-1 Zoning District

The following planning objectives and goals were adopted by the Growth Policy Committee and were utilized in developing the recommendations for zoning by-law revisions in the S-1 District:

- Promote economic development of the Route 1 Corridor and increase real estate tax revenues.
- 2) Maintain good planning and site review principles for new development proposals (i.e., encourage commercial cluster development approaches (PD), reinforce front yard buffers, provide performance standards and more definitive criteria for the Special Permit process, etc.).
- 3) Promote better land uses (i.e., professional office/R&D users) along the Route 1 Corridor, and discourage strip (or "ribbon") type development.
- 4) Enhance environmental protection and preservation, and preserve Town's rural character.
- 5) Minimize the number of access points onto Route 1 to reduce traffic impacts.
- 6) Minimize demands placed on Town services and infrastructure.
- 7) Implement proper procedures to assure that future development of the Sullivan Stadium and Foxborough Harness Raceway will be completed in accordance with the above planning objectives, and others to be considered that are focused on stadium uses.

### o Alternative Growth Management Control Options

Three development management approaches were proposed by the consultant team for consideration by the Town as follows:

1) Option #1: Interim Zoning Overlay District (IZOD) - This option would create a special permit overlay district for the S-1 District for a period of two years or less to allow Foxborough to complete permanent zoning based on a long-term planning process, and the market considerations for the Route 1 corridor.

- 2) Option #2: Incentive Zoning This is a regulatory mechanism where the developer provides a community with a public benefit (either offor on-site) such as open space, traffic improvements, new fire station, etc. in exchange for permission to build a project that is denser than that permitted under existing zoning.
- Option #3: Modifications to Existing Zoning By-Law This option is to detail use dimensional, and procedural changes to the existing zoning by-law to establish immediate control over development in the S-1 zoning district. Modifications considered include the site plan review procedures, special permit requirements, dimensional regulations, and changes to uses now permitted as-of-right or by special use permit.

### o <u>Impact Fees</u>

Impact fees compensate a community for the cost of providing specific services related to new development. It is fair and equitable approach to assessing the costs associated with this development. Massachusetts has not, however, as yet adopted direct statutory authority to create such a fee system, and therefore this study considers impact fees as a future consideration by Foxborough once the necessary State legislation has been adopted.

### o Recommended Growth Management Controls

After numerous meetings with the Town's Growth Management Committee and Planning Administrator, the consultant team recommended that the Town adopt a series of proposed modifications to Foxborough's zoning by-law related to the S-1 zoning district. These recommendations are graphically summarized on Table 1 (see analysis of the other options presented to the Town and described in Section 3.4, Growth Management Controls: Analysis and Recommendations).

### o Proposed By-Law Revisions

On May 11, 1989, by a vote of 325 to 0, the Foxborough Town Meeting adopted a number of revised zoning by-laws as a part of the Route 1 Management Plan (see Section 5.0 for the detailed Town Warrant Article).

# TABLE 1

# SUMMARY OF REGULATORY OPTIONS

# TOWN OF FOXBOROUGH PROPOSED ZONING BY-LAW RECOMMENDATIONS IN THE S-1 ZONING DISTRICT

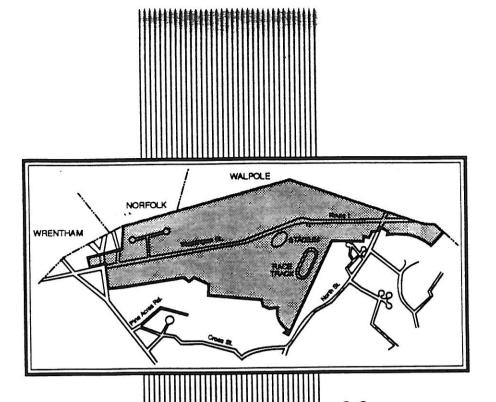
PROPOSED MODIFICATIONS	MODIFICATIONS TO S-1 DISTRICT	ADOPT NEW PD/S-1 DISTRICT	ADOPI PD/SIADIOM DISTRICT (IN FUTURE)
determine uses allowed or forbidden based on Town objectives	MEDIUM HAZARD USES SPECIAL PERMIT     STADIUMS, ETC.     AUTOMOBILE STORAGE/     AUTOMOBILE AUCTIONS     RAIL STORAGE YARDS     MINI-SELF STORAGE     WAREHOUSES     TRUCK TERMINALS	. SAME AS S-1	TAILORED TO STADIUM USES; SHOULD BE UNDER STUDY TO PROVIDE FOR A TWO-STAGE PD
strengthen planning Board's special permit Requirement	AMEND DIMENSIONAL CONTROLS TO ASSURE BETTER PLANNING & SITE LAYOUT	· FLEXIBLE CONTROLS · SAME AS S-1	PROCESS CONCEPT PLAN APPROVAL SPECIFIC PROJECT APPROVAL (SIMILAR TO PD/S-1 REQUIREMENTS)
Strengthen the site plan Review Criteria	AMEND SITE PLAN REVIEW CHECKLIST		
provide flexible con- trols (i.e. use and dimen- sion) for large lot development	• NOT APPLICABLE	INCREASE LOT SIZE TO S ACRES     PROVIDE FOR LOT COVERAGE     OF 70%     INCREASE HEIGHT TO60'     INCREASE RETAIL TO 50%	
		SUBDIVISION CONTROLS  (EXCEPT DESIGN & CONSTRUCTION STANDARDS	

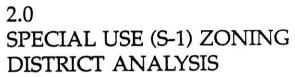
### 1.3 Next Steps

With the Town's adoption of modifications and revisions to the zoning by-law requirements for the S-l District, there are a number of planning and fiscal issues that should be placed on the Town's future agenda, as follows:

- O A capital improvement program for Route 1 should be established by the Planning Board and Growth Management Committee with priorities established and more detailed costs completed. This program can be implemented through private initiatives required by the Town as a part of the recently adopted Special Permit procedures for the S-1 District.
- Discussions should be held with the major property owners in the S-1 District, including Sullivan Stadium and Foxborough Raceway, to determine whether additional modifications to the S-1 District zoning may be necessary to further the Town's planning objectives and goals for this district. For example, a two-stage planned development procedure for stadiums was considered in Section 3 of the recommendations but not presented to the May, 1989 Town Meeting.
- o If an enabling statute is adopted by the State legislature providing for municipalities to establish an impact fee system, the Town should utilize this report as a beginning point for implementing such a fee system either for Foxborough as a whole, or for the S-l District alone.
- Finally, efforts should be taken to monitor the effect of the new zoning for the S-1 District through interviews with prospective developers or owners of the land parcels within the district. A major objective of the proposed revisions was to ensure proper planning controls while furthering the creation of new development providing additional tax revenues to the Town. This balance should be reviewed and appropriate measures taken to assure this balance be maintained in the future.

-7-





### 2.0 SPECIAL USE (S-1) ZONING DISTRICT ANALYSIS

### 2.1 Existing Conditions (Prior to May 1989 Town Meeting)

- 2.1.1 <u>Current Municipal Regulations</u> (Prior to Adoption of Changes by Town Meeting in May, 1989)
- o Special Use (S-1) Zoning District Regulations

### **PURPOSE**

The S-1 District was established in 1972 to encourage the innovative and creative design for office and industrial development. The district by-law was designed to accommodate preferred high density land uses. Such uses could potentially produce detrimental effects on neighboring properties if not strictly controlled as to location and design. The S-1 District's dimensional regulations were established to insure high standards in the layout, design, and construction of office and industrial development.

### LOT CONFIGURATION

Minimum Lot Size: 60,000 square feet

Minimum Frontage: 200 feet (50 feet if subdivision is off Route 1)

Minimum Front Yard: 75 feet (50 feet if subdivision is off Route 1)

Minimum Side Yard: 50 feet (25 feet if subdivision is off Route 1)

Minimum Rear Yard: 50 feet

Maximum Building Height: 40 feet

Maximum Building Lot Coverage: 40% (for building only)

### USES

### A. Permitted (As-of-Right)

Low Hazard (see Attachment A)

Moderate Hazard (see Attachment A)

 Mercantile/Retail - limited to 25% of gross floor area of structure; and drive-ins and sales by vending machines are not permitted

Industrial

 Business/Professional Offices (except funeral establishments and massage parlors)

- Theaters
- Night Clubs, Taverns (excluding drive-in type establishments which promote the consumption of food on the premises)

Museums, Libraries, etc.

- Churches
- Recreation (excluding drive-in theaters)

- Schools: Public, Parochial

- Hotels, Motels
- Agriculture Crop (only on land parcels of 5 acres or more)

Municipal Facilities

Accessory Uses (designed to cater to employees)

### B. Uses Not Permitted (Prohibited)

- High Hazard
- Detention Facilities

Lodging, Boarding

- School and Farm Dorms (except where accessory to a permitted agriculture use for seasonal migrant workers or permitted industrial use, such as watchman quarters)
- Multi-Family Dwellings

- Two-Family Dwellings

- Detached Single-Family Dwelling (except accessory to permitted agricultural and industrial uses)
- Mobile Homes (except accessory to permitted agricultural and industrial uses)
- Recreational Vehicles
- Agriculture Livestock
- Cemeteries
- Municipal Facilities
- Accessory Uses (residential uses, etc.)
- Planned Development Cluster
- Planned Development Varied Cluster
- Planned Development Housing
- Planned Development Mixed

### C. Special Permit (SP) Required/Granted By Planning Board

- Planned Development/Business: Five (5) acre minimum lot size required. Allowances from the normal density, dimensional and parking requirements may be permitted subject to standards hereinafter set forth.
- <u>Planned Development/Industrial</u>: Ten (10) acre minimum lot size required. Allowances from the normal density, dimensional and parking requirements may be permitted subject to standards hereinafter set forth in the Zoning By-Laws section, Industrial Performance Standards.

- Water Resources Protection District: Overlay district superimposing the S-1 60,000 square feet minimum lot size requirement. New commercial and industrial activities as well as expansion of existing uses may be specially permitted if discharged wastewater is controlled and proposed use shall not be substantially more detrimental to the aquifer recharge area (Area 2A) than existing use.

### D. Special Use Permit (SUP) Required/Granted By Board of Appeals

- Stadiums
- Private Schools/Profit (excluding tractor trailer schools using public roads, daycare centers, and nurseries)
- Hospitals, Nursing Homes
- Public Utilities
- Clubs, Golf, Country
- Recreation/Non-Profit
- Recreation/Profit

### o Zoning Overlay Districts

### WETLANDS PROTECTION DISTRICT

The Wetlands Protection District overlays other districts to insure that lands in the Town of Foxborough, subject to seasonal or periodic flooding shall not be used for residence or other purposes in such a manner as to endanger the health, safety or welfare of the occupants of the wetland areas, or of the public generally. The overlay district is intended to protect, preserve and maintain the water table and water recharge areas within the Town so as to preserve present and potential water supplies for the public health and safety of the Town. It is also to assure the continuation of the natural flow pattern of the water courses within the Town, in order to provide adequate and safe floodwater storage capacity to protect persons and property against the hazards of flood inundation.

Under Title V of the State Environmental Code, a leaching facility of subsurface sewage disposal systems must be setback at least 50 feet horizontally from the boundary of wetlands defined under the Massachusetts Wetlands Protection Act (MWPA) (310 CMR 15.03(7)). The setback distance is determined by measuring from the boundary of the area in question or from the contour of the mean annual flood elevation in inland areas, whichever is further from the water body. The Foxborough Health Department has increased this setback to 100 feet while the Foxborough Wetland By-Law has further increased this setback to 150 feet.

The Town of Foxborough Wetland By-Law also states that a septic system over an aquifer or within 250' of an aquifer must be located at least 250' from other existing or proposed septic systems. Any system discharging to soils within a recharge area or within 100' of a recharge area must be 200' from other systems.

### FLOODPLAIN DISTRICT

The Floodplain District was established as an overlay district and includes all special flood hazard areas designated as Zone A, A1-30 on the Foxborough Flood Insurance Rate Maps, (FIRM), and the Flood Boundary and Floodway Maps, dated August 19, 1979, on file with the Town Clerk, Planning Board and Building Commissioner. These maps as well as the accompanying Foxborough Flood Insurance Study, were incorporated by reference into the Floodplain District. (FPD was inserted by STM 11/26/79, Article #18.)

### WATER RESOURCE PROTECTION DISTRICT

Amendments to the Water Resource Protection District were adopted at the May 1989 annual Town Meeting. The Water Resource Protection District is an overlay district which protects areas of Zone II, Zone III, future potential aquifers, and bodies of water. The district regulates uses, drainage, erosion and sedimentation control, monitoring and waste disposal. Sanitary landfills, storage of road salt, underground storage tanks, and junkyards are are among other land uses prohibited in the district. Some of the uses allowed by Special Permit include golf courses, earth removal, dry-cleaning establishments, and storage of toxic or hazardous substances.

Zone II and Zone III of the Route 1 well extend through the S-1 District (Figure 1). The Zone II area includes the southwest section of the S-1 District. The Zone II area encompasses the cranberry bogs, Route 1, Lincoln Road, and sections of Pine Street and Main Street and Pine Acres Road. Zone III extends from the Zone II boundary on Route 1 to the Town border and encompasses Pierce Street, Turner Road, and parts of Pine Street and Main Street.

### State Wetlands Regulations Related to Development in General

Wetlands are protected in Massachusetts under both the Massachusetts Wetlands Protection Act (MGL Chapter 131, Section 40) and Regulations (310 CMR 10.00) and Section 404 of the Federal Clean Water Act. The Massachusetts Wetlands Protection Act (MWPA) regulates work within wetland resource areas in order to protect the statutory interests which wetlands provide including:

- Flood control,
- Storm damage prevention,
- Protection of groundwater supplies,
- Protection of public and private water supply,
- Prevention of pollution,
- Protection of fisheries,
- Wildlife habitat, and
- Protection of land containing shellfish.

Under MWPA, areas that are considered regulatable resources include: waterways and water bodies such as ponds and streams; swamps and marshes where the vegetational community consists of more than 50% wetland species; and areas subject to flooding including areas bordering streams and isolated areas of sufficient size. Only a small amount of wetland resources may be altered with a permit and only if certain "performance standards" are met. Thus, wetlands for the most part preclude development although some disturbance of wetlands is allowed under the MWPA regulations.

Section 404 of the Clean Water Act is enforced by the Army Corps of Engineers. Permits are required for the discharge of fill into waters of the United States (including wetlands associated with them). Water Quality Certificates are required from the DEQE Division of Water Pollution Control for work requiring an Army Corps Permit. Wetlands under Section 404 are defined by vegetation, soils, and hydrology. Thus, wetland delineations using Corps methodology may differ somewhat from wetlands delineated under the MWPA.

Title 40, Section 18 of the Code of Federal Regulations regulates sewage disposal, the construction of leaching fields, the storage of petroleum products, hazardous materials, solid waste, vehicle maintenance, paving, and many other activities in sensitive water supply areas. Sensitive water supply areas are considered the Zone II as defined in the DEQE "Guidelines for Public Water Supply". For surface water supplies, this includes streams which have a flow exceeding one and six tenths cubic feet per second for at least six months of a year and land within 100 feet of the 100-year floodplain.

### o <u>Federal Sole Source Aquifer Regulation</u>

The Environmental Protection Administration (EPA) has recently (December 1988) designated the Head of the Neponset Aquifer (HNA) a sole source aquifer, pursuant to Section 1424(e) of the Safe Drinking Water Act (42 U.S.C. 300f, 300h-3(e), Pub. L. 93-523). This area covers 30 square miles including portions of Foxborough and neighboring communities. The EPA will review requests for federal financial assistance for projects in this area. No commitment for assistance will be made for projects which may contaminate the aquifer through a recharge zone.

### 2.1.2 Land Use and Vacant Land Inventory

Less than half of the S-1 District has been developed. Of the approximate 800 acres in the district, 37.5% has been commercially developed, 0.5% residential, and the remaining 62% is vacant or undeveloped. Sullivan Stadium and the Foxborough Harness Rceway are the dominant land use in the district, encompassing approximately 230 acres (29% of the district). Other commercial activities within the district include automobile retail and service (3%), motels (2%), restaurants (1%), office (1%), and other (1.5%). Parking for Sullivan Stadium also constitutes a major land use in the district (approximately 30%) but this parking condition only occurs about 12 times per year and usually on sundays when other commercial businesses are closed.

### 2.1.3 Natural Resources Inventory

### o Wetlands Located On-Site

Wetlands located within the Special Use Zoning District were mapped by HMM Associates (see Figure 1). It should be noted that these delineations are approximate in nature and wetland resources must be flagged in the field and surveyed before any development takes place in these areas.

The largest wetland system in the district is located in the southeastern portion, east of Route 1 and north of Pierce Street. This area consists of an extensive red maple shrub swamp. The dominant species included arrow-wood, highbush blueberry, maleberry, tussock sedge, and sensitive fern. Cranberry Bog Pond and Mann Pond are located along the eastern boundary as well as the stream which connects them. The wetlands in this region consist of a mixture of forested wetlands and freshwater marshes dominated by emergent vegetation such as cattails, phragmites, and hydrophillic grasses, rushes, and sedges.

Water flows to the east and north from the two ponds. Wetlands associated with the Neponset River have been altered to a large extent south of the Foxborough Harness Raceway. The River is culverted at this point and flows above—ground for a short distance through the center of the racetrack. North of the track, the River again flows above—ground. Pollution may have occurred to the stream since an orange substance was noted within the stream in this area. (This possible contamination has not been analyzed.)

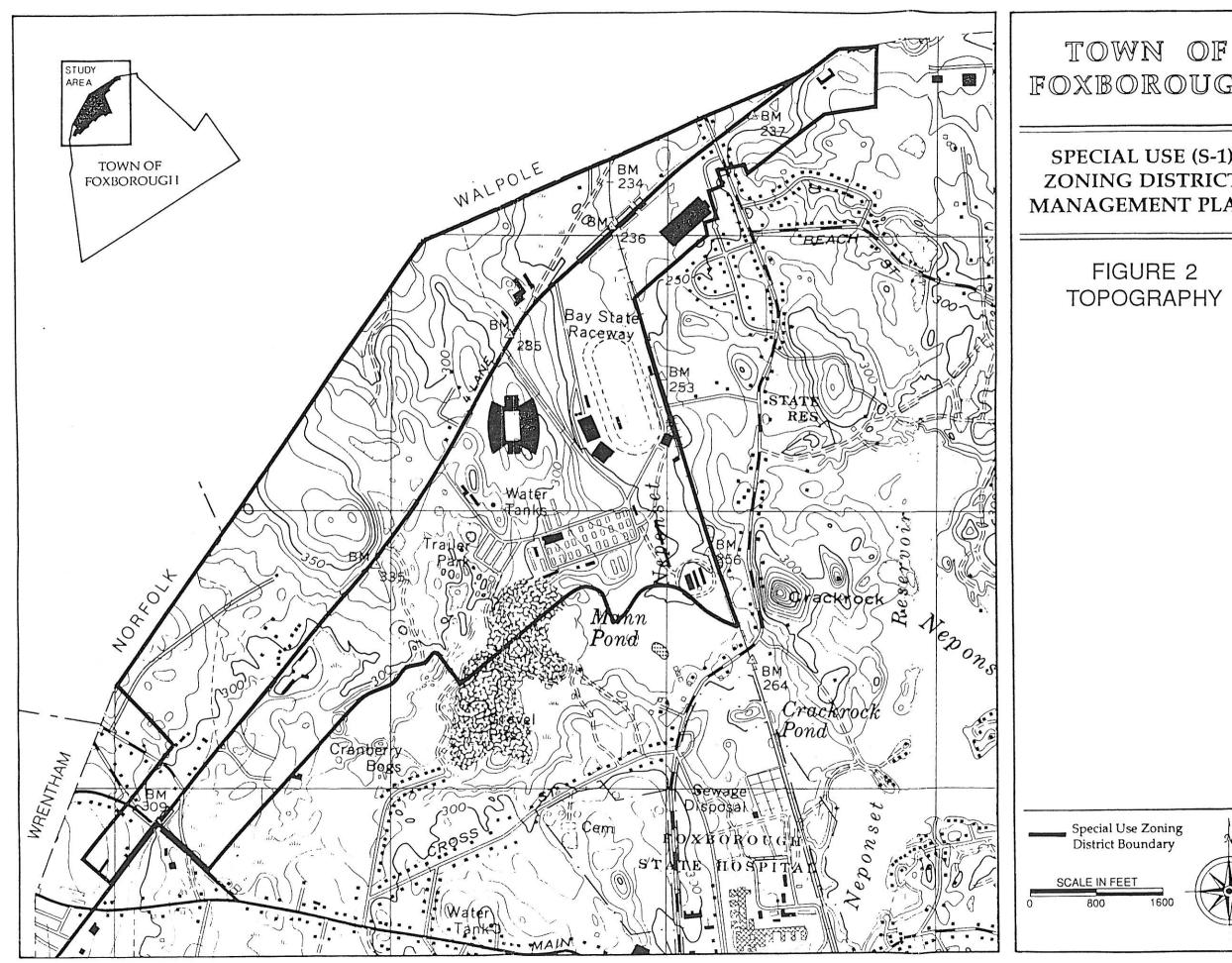
Wetlands west of Route 1 are limited primarily to the northern portion of the district, where two wetland systems are located on the Walpole border. One system is a continuation of the Neponset River system. The second is located just west of this system and consists of an extensive shrub swamp which extends into Walpole. Both of these areas have been impacted recently by fill.

Wetlands alterations are prohibited in areas which provide habitat for rare or endangered wildlife species. The Natural Heritage and Endangered Species Program (NHESP) currently knows of no such areas located within the Special Use District.

### o Soils

The S-1 District is not serviced by the town sewer system. Land uses in the district depend upon individual septic systems and on-site sewage treatment plants. HMM utilized Title V calculations to determine sewage generation from the build-out of the S-1 District (see Table 5).

Placement of sewage disposal systems in the S-1 District is dependent upon environmental constraints such as soils, topography (Figure 2), and wetlands. Leaching facilities acceptable under the State Sanitary Code Title 5 requirements include:



FOXBOROUGH

SPECIAL USE (S-1) **ZONING DISTRICT** MANAGEMENT PLAN

> FIGURE 2 TOPOGRAPHY

- Leaching Pits Leaching pits function best in areas where the ground water elevation is 4 feet or more and depth to bedrock is greater than 4 feet. The leaching area requirements must be determined in accordance with Title V.
- Leaching Fields A standard leaching field system functions best on sites with: percolation rates of 10 min/inch on slopes of 5% or less, and where depth to water table and bedrock is greater than 6 feet.
- Mound Systems A mound system is a system that is elevated above the natural surface in a suitable fill material. These systems function best on sites that have slowly permeable soils and a high water table. Design requirements must follow Title V standards. They are, however, very cost-prohibitive for most home owners.

### o On-Site Sewage Treatment Plants

Another alternative to individual sewage disposal systems is the use of a single aerobic sewage treatment system with proper discharge control. The design of this alternative would have to be coordinated with Massachusetts Department of Environmental Quality Engineering since this type of system is currently under technical review. Location of a sewage treatment system could be installed in areas delineated on the soil potential map with medium and high potential.

Use of these sewage systems facilities is dependent entirely on the site and soil characteristics. Septic soil and slope characteristics evaluated include: percolation rates, bedrock depth, steep slopes, wetland characteristics, and floodplain locations. Specific soil limitation factors for on-site septic systems for the S-1 District is located in Appendix B.

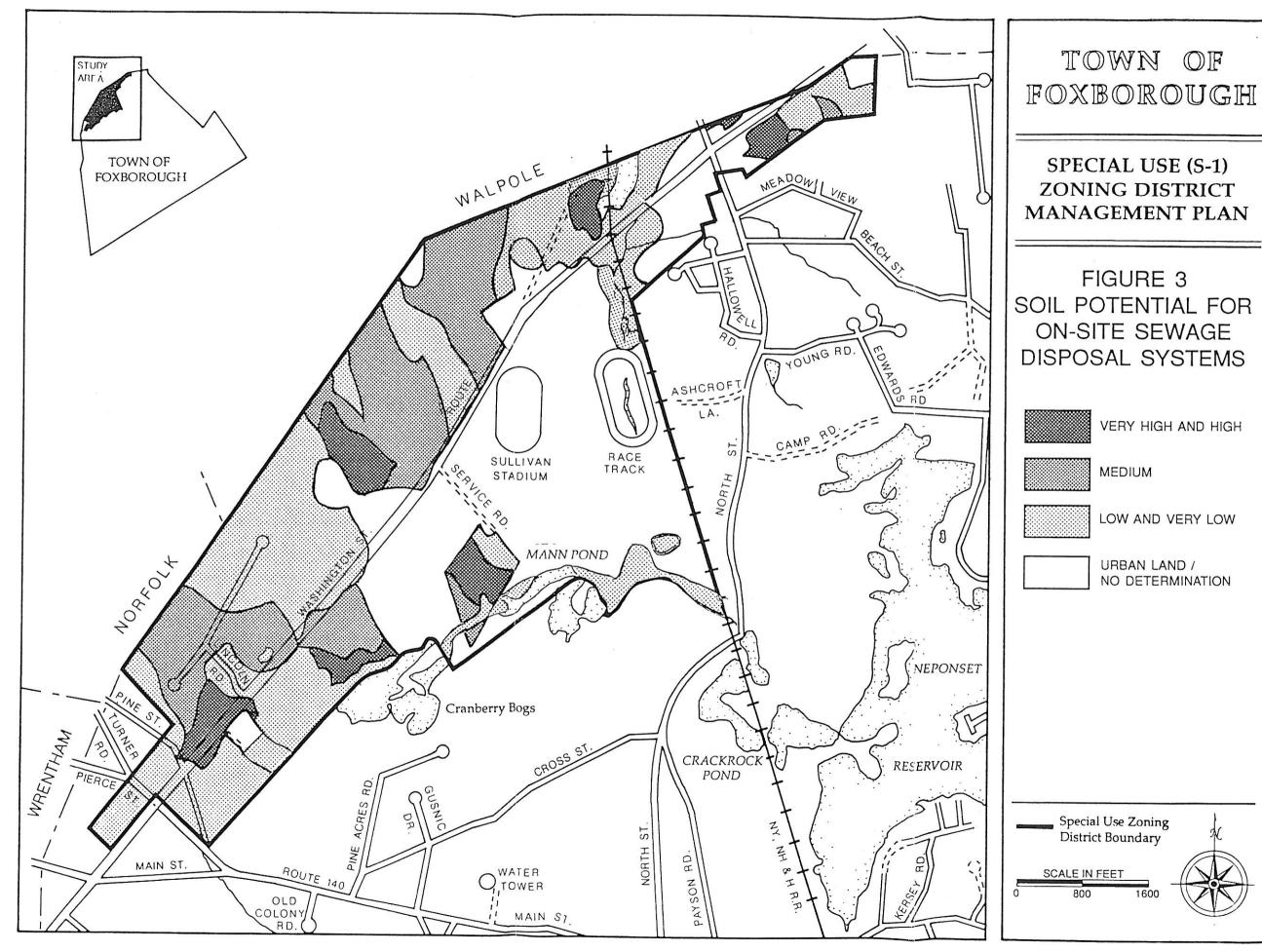
Soil ratings indicate the relative quality of a soil to prevent surface and subsurface pollution of wetlands and ground water. Table 2 provides an assessment of each soil type on the site for proper functioning of individual on-site sewage disposal systems. Much of the S-1 District contains soils with a low rating (see Figure 3).

### o Route 1 Town Well

SEA Consultants have recently completed a Zone II Delineation Study (and revised Water Resource Protection Zoning By-Law) on the Town's wells including the Route 1 well located between Washington Street (Route 1) and Pine Acres Road. SEA's Zone II Study delineated the "area of an aquifer that contributes water to a well under the most severe recharge and pumping conditions than can be realistically anticipated (180 days pumping at safe yield with no recharge from precipitation)." SEA Consultants also identified the Route 1 Well Zone III ("the land area beyond the area of Zone II from which surface water and groundwater drain into Zone II"). The Water

## TABLE 2 SOIL POTENTIAL RATING CLASSES

- Very High Potential Performance is at or above "standard" because soil conditions are exceptionally favorable. Installation costs are low and there are no continuing limitations.
- High Potential Performance is at or above the "standard." Costs of measures for overcoming limitations are judged locally to be favorable in relation to the expected performance. Continuing limitations do not detract appreciably from environmental quality.
- Medium Potential Performance is somewhat below "standard." Costs of corrective measures are high. Continuing limitations detract from environmental quality.
- Low Potential Performance is significantly below "standard." Corrective measures are costly. Continuing limitations detract appreciably from environmental quality.
- Very Low Potential Performance is much below "standard." Corrective measures are very costly. Continuing limitations seriously detract from environmental quality.



Resource Protection District Map produced by SEA delineates the Zone II and Zone III areas in Foxborough which are regulated by the Water Resource Protection District By-Law. The Zone II and Zone III areas for the Route 1 well approximately cover the entire S-1 District west from Sullivan Stadium.

According to SEA's study, the S-1 District is essentially divided between the Neponset Reservoir Watershed and the Route 1 Well Zone II and Zone III areas. Sullivan Stadium is the approximate divide between the two water resource recharge areas (see the map of Water Resource Protection District, Town of Foxborough, February 1989 map).

### 2.2 Evaluations of Growth Projections

### 2.2.1 Worst Case Zoning Build-Out Scenario of the Special Use (S-1) Zoning District (Preliminary)

HMM utilized the Metropolitan Area Planning Council's (MAPC) non-residential build-out assumptions and analysis for the Special Use (S-1) Zoning District build-out (see Appendix A). Based on discussions with the Town's Growth Management Committee, three zoning build-out scenarios were developed: (1) development of Sullivan Stadium and the Foxborough Raceway parcel; (2) development of the Raceway with the Stadium remaining; and (3) both the Raceway and Stadium land uses remaining. The three build-out scenarios assume the development of office and retail uses which have the highest impact on municipal infrastructure systems (roadways, water and sewer). The current S-1 District regulations states that no more than 25% of total build-out (gross floor area) on a parcel can be retail, therefore, the build-out assumes 25% will be retail (see Table 3).

### 2.2.2 Infrastructure Impacts Associated with Worst-Case Build-Out

HMM utilized available information and standard calculations to determine the impacts upon the town's infrastructure systems.

### o <u>Water Supply/Sewer Generation</u>

Foxborough's water system currently includes eleven wells, a one million gallon standpipe and a three million gallon storage tank. The water system's capacity or safe yield is estimated at 4.0 million gallons per day (mgd). The town's present daily average water consumption is below the system's safe yield. However, additional water sources are needed to meet projected water demand from the worst case build—out. Utilizing Title V, HMM determined the water demand for the S-1 District build—out (see Table 4). HMM added an additional 10% of the Title V calculations to realistically determine water demand. (Title calculations do not account for water consumption not discharged into sewage systems.)

### TABLE 3

### SPECIAL USE (S-1) ZONING DISTRICT

### WORST-CASE BUILD-OUT SCENARIOS

(Metropolitan Area Planning Council, June 1988)

	~ <u>\$</u> *	SCENARIO 1: Development of Stadium & Raceway (gross sf)	SCENARIO 2: Development of Raceway, Stadium Remains (gross sf)	SCENARIO 3: Both Stadium and Raceway Remains (gross sf)
TC	TAL BUILD-OUT			
	Office Retail Combined Total*	6,092,304 <u>2,030,764</u> 8,123,068 sf	4,273,900 1,424,633 5,698,535 sf	2,873,685 <u>957,893</u> 3,831,578 sf
	Total Employees	30,199	21,850	14,691
	2.6			
Re	esidual**			
	Office Retail Combined Total	5,907,150 <u>1,969,048</u> 7,876,198 sf	4,088,746 1,362,917 5,451,663 sf	2,688,531 <u>896,177</u> 3,584,708 sf
	New Employees***	29,824	20,903	13,744

<sup>\*</sup> Total build—out is defined as the maximum square feet of development which can be accommodated on a parcel under existing zoning dimensions and parking requirements; unbuildable wetland portions are removed from this analysis.

<sup>\*\*</sup> Residual build-out represents the <u>difference</u> between total build-out and existing development. This figure represents additional square feet that could potentially be accommodated in the S-1 District.

<sup>\*\*\*</sup> Assumes: Retail – 1 employee per 588 square feet. Office – 1 employee per 220 square feet.

TABLE 4 S-1 DISTRICT WORST-CASE BUILD-OUT/WATER SUPPLY NEEDS\*

	SCENARIO 1: Development of Stadium & Raceway (gpd)	SCENARIO 2: Development of Raceway, Stadium Remains (gpd)	SCENARIO 3: Both Stadium and Raceway Remain (gpd)
OFFICE: RETAIL:	501,615.3 111,692	352,597 78,355	237,080 <u>52,684</u>
TOTAL WATE	R 614,307.3 gpd	430,952 gpd	289,764 gpd

Title V Calculations

OFFICE: per 1,000 sq. ft. RETAIL: per 100 sq. ft.

Water Consumption

75 gallons per day (gpd) +10% 5 gpd +10%

### o Additional Water Supplies

There are five potential well sites in Foxborough. Combined with the current system, the total safe yield is estimated at 7.0+ mgd. To meet the projected 614,307 gpd requirements of the worst-case build-out, at least one of these wells may have to go on-line.

### o Sewer Generation

The S-1 District is not currently on the Town's sewer system necessitating on-site disposal systems throughout the District. Table 5 outlines total wastewater demand by the three scenarios of the worst-case build-out. These estimates will only be useful should the Town decide in the future to extend its sewage system to the S-1 District.

### 2.2.3 Traffic Generation for Worst-Case Scenario

Traffic impacts for the Route 1/North Street intersection are based upon a recent turning movement count, lane geometrics, current signal timing and phasing, and a projected absorption rate of 250,000 square feet per year (50% office/50% retail land use mix)\*. A 48-hour Automatic Traffic Recorder (ATR) count was taken by the Town of Foxoborough on Route 1, just south of the Sullivan Stadium on December 9 and 10, 1988. This count was taken on typical weekdays, and does not reflect operation of Sullivan Stadium or the Raceway. The actual count data shows that the 24-hour volume was 11,561 vehicles per day, and the AM peak hour occurred between 7:00 and 8:00 AM, and the PM peak hour occurred between 4:00 and 5:00 PM. A one-hour AM, and one-hour PM peak hour manual turning movement count at U.S. Route 1 and North Street on December 14, 1988.

Traffic operations were analyzed according to standard procedures and practices outlined in the 1985 <u>Highway Capacity Manual</u>.\*\* The efficiency of traffic operations at a location (or changes to traffic operations) is measured in terms of Level of Service (LOS). The LOS refers to the quality of traffic flow along roadways and at intersections. It is described in terms of Levels A through F, where A represents the best possible condition and F represents forced–flow, or failing conditions. Generally, LOS C or better is considered acceptable, although in urban locations, LOS D is also acceptable. At signalized intersections, LOS is defined in terms of average approach delays. For unsignalized intersections, reserve capacities are used to determine LOS. These measures are summarized in Table 6.

Average delay measures the mean stopped delay experienced by vehicles entering a signalized intersection during the peak hour period. Average delay is measured for each individual approach and the intersection as a whole. The LOS provided deteriorates with increasing average delays.

\*\* Transportation Research Board, Highway Capacity Manual, Special Report 209, 1985.

<sup>\*</sup> The current by-law for the S-1 district limits retail to 25% of total floor area. For purposes of the worst-case scenario projection, total retail is increased from 25% to 50% of total floor area because this comes closer to the retail/office mix ratio being considered for similar types of development.

### TABLE 5 S-1 DISTRICT BUILD-OUT/SEWAGE GENERATION ESTIMATES

	SCENARIO 1: Development of Stadium & <u>Raceway</u> (gpd)	SCENARIO 2: Development of Raceway, Stadium Remains (gpd)	SCENARIO 3: Both Stadium and Raceway Remain (gpd)
OFFICE: RETAIL:	456,923 101,538	320,543 71,232	215,526 <u>47,895</u>
TOTAL WASTE GENERATION	558,461 gpd	391,775 gpd	263,421 gpd

Title V Calculations

Wastewater Generation

OFFICE: per 1,000 sq. ft. RETAIL: per 1,000 sq. ft.

75 gallons per day (gpd) 5 gpd

# TABLE 6 INTERSECTION LEVEL OF SERVICE (LOS) DESIGNATIONS\*

Category	Description	Delay Range** (Seconds/Vehicle)
LOS A:	Describes a condition of free flow, with low volumes and relatively high speeds. There is little or no reduction in maneuverability due to the presence of other vehicles, and drivers can maintain their desired speeds with little or no delay.	0.00 - 5.0
LOS B:	Describes a condition of stable flow, with desired operating speeds relatively unaffected, but with a slight deterioration of maneuverability within the traffic stream.	5.1 – 15.0
LOS C:	Describes a condition still representing stable flow but speeds and maneuverability begin to be restricted. The general level of comfort begins to deteriorate noticeably at this level.	15.1 – 25.0
LOS D:	Describes a high-density traffic condition approaching unstable flow. Speeds and maneuverability become more seriously restricted, and the driver experiences a poor level of comfort.	25.1 – 40.0
LOS E:	Represents conditions at or near the capacity of the capacity of the facility. Flow is usually unstable, and freedom to maneuver within the traffic stream can become difficult.	40.1 – 60.0
LOS F:	Describes forced flow or breakdown conditions with queuing along critical approaches. Operating conditions are highly unstable as characterized by erratic vehicle movements along each approach.	60. 1 or greater

<sup>\*</sup> Source: Transportation Research Board, <u>Highway Capacity Manual</u>, Special Report 209, 1985.

<sup>\*\*</sup> Delay ranges relate to the mean stopped delay incurred by all vehicles entering the intersection and do not consider the effects of traffic signal coordination. This criteria is intended for use in the evaluation of signalized intersections.

### o Existing Traffic Volumes and Operations

The following traffic volume flow maps show the AM/PM peak hour volumes collected in December 1988. The AM peak hour volume on Route 1 is 822 vehicles per hour (vph) northbound (NB), and 261 vph southbound (SB). The PM peak hour volume is roughly reversed with 302 vph (NB), and 753 vph (SB).

The 1988 existing level of service (LOS) for the AM/PM is C/C at U.S. Route 1 and North Street.

### o 1995 Projected Traffic Volumes and Operations

In order to evaluate the traffic impacts of development in other sections of Town and the area, existing traffic volumes are normally projected to increased by 3% per year. Therefore, the 1995 volumes were increased by 23% as compared to the 1988 existing volumes.

The projected AM/PM level of service at Route 1 and North Street in 1995, without development in the S-1 District, would still be LOS C/C.

New traffic attributable to the S-1 District build out was estimated in a worst case scenario for 1995, where both the Stadium and Raceway are redeveloped and retail uses increased from 25% to 50% of total build-out. This was estimated on a daily and peak hour basis.\* Another preliminary assumption this analysis uses is that 250,000 sf of new development will be absorbed each year in the S-1 District. The AM/PM peak hour trips, and daily trips for the expected build-out of 750,000 sf of office, and 750,000 sf of shopping center is shown in Table 7.

TABLE 7
TRAFFIC IMPACTS
1995 BUILD-OUT CONDITIONS

		TOTAL VEHICLE TRIPS			
Land Use	AM In	AM Out	PM In	PM Out	24-Hour
Retail (750,000 sf)	410	175	1,089	1,227	26,674
Office (750,000 sf)	<u>987</u>	<u>147</u>	<u>168</u>	880	6,218
TOTAL (1,500,000 sf)	1,397	322	1,257	2,107	32,892

<sup>\*</sup> Institute of Traffic Engineers, <u>Trip Generation Manual</u>, 4th Edition, 1987.

Total vehicle trips for the 1995 build—out conditions were distributed to Route 1 based upon current peak hour directional splits. The directional distribution was:

North to Boston on U.S. Route 1		=	15%
South to I-495 on U.S. Route 1	*	=	75%
East on North Street		=	5%
West on North Street		=	5%

The projected 1995 AM/PM Build level of service (LOS) for U.S. Route 1 at North Street is projected at C/D. Improvements would, therefore, not be needed at Route 1/North Street for the development of 750,000 sf of retail and 750,000 sf of office uses. HMM did not analyze the impacts to Route 1 at I-495, or any other locations.

### o 2008 Projected Traffic Volumes and Operations

HMM assumed background traffic volumes to increase by 3% per year. Therefore, the 2008 volumes are increased by 80.61% as compared to 1988 existing volumes. The projected AM/PM level of service at Route 1 at North Street in 2008, without development of the S-1 District, will fall to LOS E/C.

New traffic attributable to the S-1 District was estimated on a daily and peak hour basis, using the ITE <u>Trip Generation Manual</u>, 4th Edition (1987). The AM/PM peak hour trips, and daily trips for the expected build-out of 2,375,000 sf of retail and 2,375,000 sf of office, is shown in Table 8. The same absorption rate of 250,000 sf per year was used.

TABLE 8
TRAFFIC IMPACTS
2008 BUILD-OUT CONDITIONS

	TOTAL VEHICLE TRIPS				
Land Use	AM In	AM Out	PM In	PM Out	24-Hour
Retail (2,375,000 sf)	818	351	3,059	3,450	70,662
Office (2,375,000 sf)	2,658	<u>397</u>	436	2,292	14,758
TOTAL (4,750,000 sf)	3,476	748	3,495	5,742	84,420

Total vehicle trips were distributed to Route 1 as follows:

North to Boston on U.S. Route 1	=	15%
South to I-495 on U.S. Route 1	=	75%
East on North Street	=	5%
West on North Street	=	5%

The projected 2008 AM/PM Build level of service (LOS) for Route 1 at North Street is projected at F/F. HMM expects that around 1996 or 1997, the road improvements described in the following section will be necessary to support development of the S-1 District at that time.

The level of service summary for each development scenario is shown on Table 9.

### Order of Magnitude Cost Estimate

Typically, the cost of highway design, construction, and right-of-way costs approximates \$1,000,000 per lane-mile. Also, new traffic signal installations each costs roughly \$85,000. We expect that the total cost to widen Route 1 to six lanes, add turning lanes to Route 1 at North Street, and resignalize that location will cost approximately \$5,000,000 (1989 dollars).

### o <u>Sullivan Stadium Parking Requirements</u>

### PARKING DEMAND

The sellout capacity of Sullivan Stadium is 60,000 persons. Assuming an additional 400 employees, the total parking demand is estimated to be 16,271 vehicles (as shown on Table 10). This includes 16,171 conventional parking spaces and 100 bus parking spaces.

### PARKING SUPPLY

In a previous study completed by HMM in 1985 for the owners of Sullivan Stadium,\* HMM identified the size and condition of each parking area at the stadium. The parking areas surface conditions ranged from paved and in good condition to unpaved and in need of significant improvements. The parking densities for each condition are described in Table 11.

The location of existing parking areas for Sullivan Stadium is shown on Figure 4. The size and parking conditions for each area are shown in Table 12. These areas were used to estimate the number of spaces currently available.

<sup>\*</sup> Parking Consolidation Safety Improvements and Traffic Management at Sullivan Stadium, prepared by HMM Associates, Inc., May 28, 1985.

TABLE 9
LEVEL OF SERVICE SUMMARY

<u>Intersection</u>	1988	1995	1995	2008	2008
	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM
	Existing	<u>No-Build</u>	<u>Build</u>	<u>No-Build</u>	<u>Build</u>
Route 1 at	C 18.5	C 20.2	C 19.8	E 50.3	F 679.4
North Street	C 17.0	C 16.6	D 25.8	C 23.8	F 943.8
Route 1 at North Street (Improvement 1)	NS NS	NS NS	NS NS	NS NS	D 32.5 D 30.6

NS = Not Studied

<sup>\*</sup> Improvement 1 = Add right-turn lane on EB North Street.
Add second left-turn lane on NB U.S. Route 1.
Add third through lane on NB and SB U.S. Route 1.
Revise signal timing and phasing.

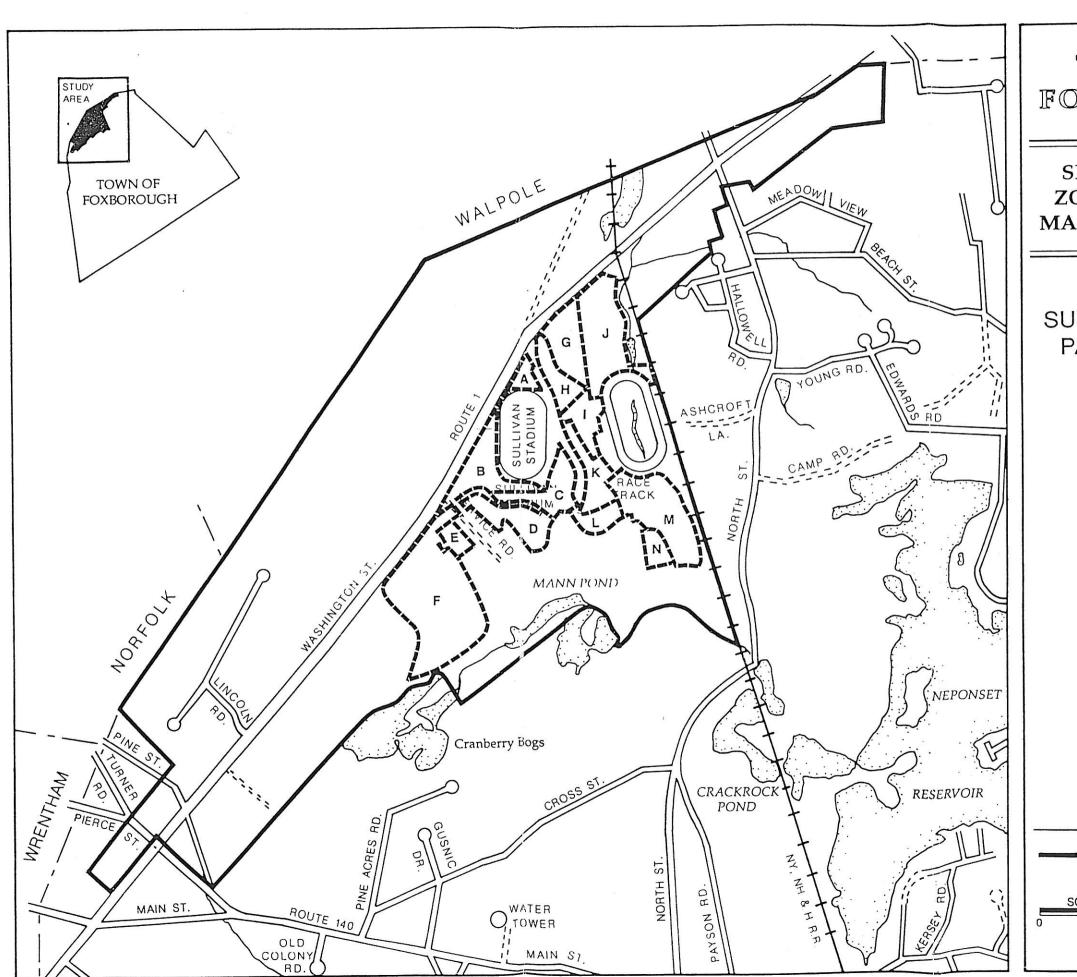
TABLE 10
SULLIVAN STADIUM
PARKING SPACE DEMAND

Arrival Type	Parking Space Demand	<u>Persons</u>
Bus Arrivals (100 buses at 40 persons/bus)	100	4,000
MBTA Train Arrivals (previous 1988 MBTA data)	0	800
Employee Arrivals (1 employee/car)	400	400
Auto Arrivals (3.5 persons/car)*	15,771	55,200
TOTAL	16,271	60,400

<sup>\*</sup> Parking Principles, Highway Research Board, Special Report 125, 1971.

# TABLE 11 SULLIVAN STADIUM PARKING CONDITION DENSITY

Condition 1:	Paved, Good Condition	l vehicle/325 square feet
Condition 2:	Paved, Poor Condition	1 vehicle/350 square feet
Condition 3:	Unpaved, Well Graded	1 vehicle/425 square feet
Condition 4:	Unpaved, Poorly Graded	1 vehicle/425 square feet



TOWN OF FOXBOROUGH

SPECIAL USE (S-1) **ZONING DISTRICT** MANAGEMENT PLAN

FIGURE 4 SULLIVAN STADIUM PARKING AREAS

SCALE IN FEET

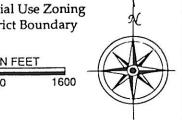


TABLE 12
SULIVAN STADIUM
INVENTORY OF EXISTING PARKING AREAS\*

Parking <u>Area</u> **	Condition 1 "Area (SF)	Condition 2 Area (SF)	Condition 3 Area (SF)	Condition 4 Area (SF)
A	111,360			
В	237,440			
С		432,000		
D		304,000		
E				Not in Use
F				1,382,400
G	375,600			
Н		208,000		
I	231,680			
J			573,440	
K	227,840			
L		142,720		
M		609,280		
N				Not in Use
0				485,240
Total SF	1,183,920	1,696,000	573,440	1,867,640
Density/ Space	325	350	425	425
Total Spaces Available	3,643 +	4,846 +	1,349 +	4,394 = 14,232

<sup>\*</sup> Based on 1985 HMM Parking Study for the Owners of Sullivan Stadium.

<sup>\*\*</sup> See Figure 4 for location of sub-areas identified.

According to the above 1985 data, HMM found that the demand was for 16,271 spaces, while the current supply was only 14,232 spaces. Therefore, there was a shortfall of 2,039 spaces. We believe the parking needs situation described in 1985 continues to exist today.

#### Pedestrian Access

Pedestrian access will be enhanced by a comprehensive system of signage. Pedestrian safety will be improved if the number of parking spaces on-site are increased. This will reduce the number of pedestrians who will walk along the shoulders of Route 1. If safe and attractive parking spaces are provided contiguous to the Stadium, it is assumed that few people will choose to use the satellite lots.

#### Rail Access

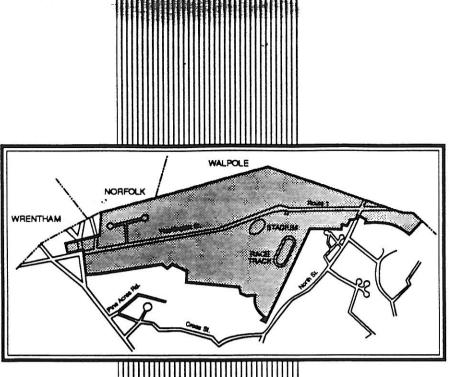
There is special train service for the eight home football games at Sullivan Stadium. The train leaves South Station at 11:15 AM on game Sundays, and arrives at Sullivan Stadium at 12:15 PM, approximately forty-five minutes before kickoff. The train departs the Stadium five minutes after the end of the game and returns to South Station. The train's seated capacity is roughly 891 persons (9 cars at 99 persons/car) per train. Ridership figures for the 1988 season range from a low of 572 persons/train, to a high of 940 persons/train. The roundtrip fare is \$6.00, and the train stops are at Norwood Central, Readville, Back Bay, and South Station. There are 160 parking spaces at the Readville Station, and 360 parking spaces at the Norwood Central Station. Riders can connect to the Red and Orange lines of the MBTA system at South Station and the Back Bay Station. The MBTA plans to continue this special service, and can add a second train if the demand so warrants. The MBTA suggests that the Sullivan Stadium advertise the train service on the Stadium scoreboard, and also on local radio to help promote ridership.

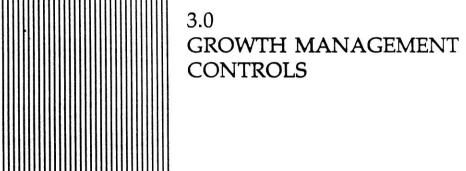
The positive aspects of promoting ridership on the MBTA event train are:

- Reduced Highway Congestion on Route 1
- Reduced Parking Demand
- Improved Pedestrian Safety (since pedestrians need not cross Route 1 to get to the Station)

#### Some negative aspects are:

- Reduced Parking Revenues
- Inflexible Arrival/Departure Schedule





#### 3.0 GROWTH MANAGEMENT CONTROLS

#### 3.1 Introduction

On the May 11, 1989, Foxborough Town Meeting, the Town adopted comprehensive zoning by-law revisions for the S-1 District. Based on extensive and detailed review with the Town's Growth Management Committee and the Planning Administrator, the preferred approach was to modify the existing by-law (more fully described in Section 5.0).

The consultant team presented three options to control growth in the S-1 District to the Growth Management Committee during the course of the study. These included creation of an interim zoning overlay district (Option #1), incentive zoning (Option #2), and modifications to the existing zoning by-laws (Option #3). All of these options addressed in some way the Town's goals and objectives for the S-1 District, as was understood by the consultant team, Option #3 comes closest to those by-law revisions adopted by Town Meeting in May, 1989. However, some of Option #3's recommendations (i.e., establishment of a two-stage Planned Development Area Procedure) were not submitted for adoption by the Growth Management Committee at the May meeting.

The following section describes the three options and identifies communities where such approaches have been adopted, if appropriate.

#### 3.2 Growth Management Control Options

#### o Option #1: Interim Zoning Overlay District (IZOD)

The IZOD is a special permit overlay district which would stay in effect for a maximum of two years, during which time the community would engage in a long-term planning process which would provide the basis for final (permanent) zoning.

The overlay district would exist in conjunction with permanent zoning which would mean that developers would have to get an IZOD special permit in addition to the permits that are already required by the existing (underlying) zoning by—law. The IZOD could provide that certain uses, in addition to those already prohibited by the existing by—law, could be prohibited. It also could include an impact fee system, as described later.

This planning/zoning concept is presented since Foxborough's current planning takes place within an atmosphere where the final outcome of the Sullivan Stadium/Patriots is not clear (i.e., the Patriots may stay/move, other sporting or accessory uses may be considered by the new owners, and the future use for the raceway is not known). A principal advantage of the IZOD is that it would allow for a flexible discretionary review process. This concept also assumes that over a two-year "interim" planning period some of the outstanding planning issues would be resolved, and growth management controls more appropriate to a preferred development scenario would be finalized.

Both Boston and Somerville have used this approach in their zoning.

#### o Option #2: Incentive Zoning

Incentive zoning is a regulatory mechanism whereby a developer provides a community with a public benefit (either on-site or off-site), such as open space, traffic improvements, new fire station, etc., in exchange for permission from a community to build a project that is larger (more dense) than that which would otherwise be permitted under existing zoning regulations. Currently the Town's PDA/Business Zoning District with a 5-acre, minimum lot size is the only mechanism by which increased density may be granted (but this language is unclear in the present regulations).

Under the incentive zoning approach, developer participation is voluntary and not required for an as-of-right project.

Incentive zoning is being used in Newton, Cambridge, Boston, and Nantucket as a mechanism to promote affordable housing.

#### o Option #3: Modifications to the Existing Zoning By-Laws

If the general objectives and goals of the Growth Management Committee are to establish greater control over the uses and dimensional regulations of the S-1 District, it is appropriate to present a planning/zoning concept which focuses on modifications to the existing zoning by-law. (The consultants have also included recommended changes to bring some of the regulations into conformity with current zoning practice in Massachusetts.)

a) <u>Site Plan Review Procedures</u> (Section 200.7, Site Plan Review, Pages 51-56)

The existing by-law specifies that a site plan shall be submitted to the Board of Selectmen prior to issuance of a building or demolition permit, and that the Selectmen, after public hearing and advice from the Site Plan Review Board, shall have the discretion to deny approval of a site plan and require a resubmission.

In this option, the Planning Board is made responsible for approvals of any site plan in the S-l District. As the primary reviewing board, the Planning Board is best able to assure that the Site Plan Review Checklist is fully considered. Providing the Planning Board with Site Plan Review authority is also consistent with actions in other towns throughout the Commonwealth.

To further strengthen the role of the Planning Board, the Site Plan Review Checklist (Section 200.7(E)) could be amended to add new sections – No. 22 – natural, historic, and scenic areas be protected and No. 23 – fiscal impacts on the infrastructure systems of the Town be considered. This would establish more operational standards for the site plan review process.

#### b) <u>Substitute Special Permit (SP) for Special Use Permit (SUP)</u> <u>Requirements in the S-1 District</u>

As described earlier, Special Use Permits (SUP) granted by the Board of Appeals are currently required for the following uses within the S-1 District:

- Stadiums
- Private Schools/Profit (with some exclusions)
- Hospitals, Nursing Homes
- Public Utilities
- Clubs, Golf, Country
- Recreation/Non-Profit
- Recreation/Profit

To insure that the granting of these above uses are consistent with those goals and objectives for the S-1 District (described above), they could be subject to Special Permit which, under the existing by-law, is granted by the Planning Board. This would assure tighter planning controls, and the use of planning considerations as a major basis for granting approval.

# c) Require That Stadium Uses Be Subject to a Two-Stage Planned Development Area Procedure

Stadium uses now require Special Use Permits (SUP) which are currently granted by the Board of Appeal. To provide for better planning control over future development of the Sullivan Stadium and associated areas, new development within the Sullivan Stadium parcel could be subject to a two-stage development review procedure. Initially, any proposal would be required to file a Master Plan concept with the Town to show how the proposal relates to an overall development concept. Following acceptance by the Planning Board of the overall concept, the project could then be subject to a Special Permit to be granted by the Planning Board. The new Planned Development Area for stadiums could have specific density, aesthetic, traffic, open space, and environmental requirements which could be specified in the by-law amendment.

#### d) <u>Modify Use and Limitations (Dimensional) Provisions for the S-1</u> <u>District</u>

Based on discussions with the Town's Planning Administrator and the Growth Management Committee, use and dimensional provisions in the S-1 District could be modified in the following manner:

- Medium hazard uses which are permitted in the S-1 District could be allowed only by Special Permit to assure greater review of potential impacts.
- <u>Self-storage/mini-warehouse</u> uses which are now permitted could be prohibited to gain more control over potential impact issues (i.e., traffic, etc.) and give a more positive image to the S-1 District.
- Automobile storage and auctions, rail storage, and possibly other noxious uses now permitted could be prohibited to give a more positive image to the S-1 District.
- Reduce maximum lot coverage, including accessory structures (as provided in Schedule A) of the Zoning By-laws from 40% (building only) to 70% which will include all impervious surfaces. This would limit density and allow sufficient frontage and other yard setbacks to insure conformity to good site planning principles. This, in turn, would meet the Growth Management Committee's planning goals and objectives for the S-1 District.
- <u>Increase the percentage of retail uses (of total build-out) allowed from 25% to a percentage to be determined.</u> Such an increase, in combination with reduction in lot coverage, would provide for greater flexibility for a mixed-use development concept.

#### 3.3 Impact Fees

Impact fees are normally established in order to compensate a municipality for the cost of providing specific services, and not to raise general revenues. It is a regulatory mechanism of deriving public benefits from an "as-of-right" development. Few Massachusetts towns have actually adopted impact fees, although it has been widely used in other states such as Florida. Massachusetts has not as yet adopted direct statutory authority to create such a fee system. From the Florida impact fee case standards, the methodology required to establish a legally defensible impact fee system includes the following:

- o The municipality should establish a capital budget program to:
  - Justify the need for the specific improvement;
  - Determine a realistic cost for the improvement;
- o Develop a fair and reasonable cost allocation method to share the costs equitably;
- o Establish a separate or so called "enterprise" fund to hold the fees until spent; and
- o Build the facility or improvement necessitated by the development within a reasonable time\* or return the funds to the developer.

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<sup>\*</sup> Some attorneys have suggested five-years as being the length of time for a reasonable Capital Improvements Program.

#### 3.4 Growth Management Controls: Analysis and Recommendations

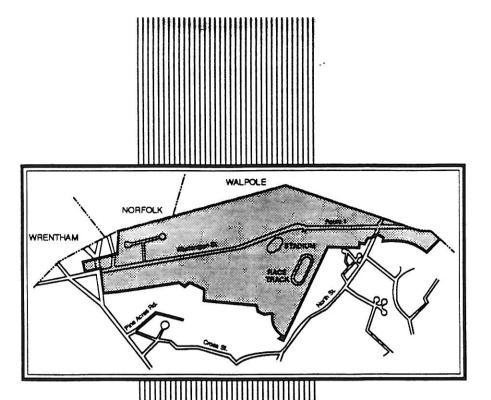
The three growth management options described in the preceding sections were not necessarily presented as exclusive approaches to addressing the growth issues for the S-l District. For example, even though the Town opted to initiate modifications to the existing by-laws, it could also adopt interim or incentive controls as well. In other words, there could be some mixing and matching of growth management approaches.

During the course of this study, the consultants evaluated the positive aspects of the <a href="interim">interim</a> (Option #1) and <a href="interim">incentive</a> (Option #2) zoning approaches. Each, however, had an important shortcoming. The <a href="interim zoning">interim zoning</a> suspends all or part of permanent zoning during the interim planning period (up to two years) and requires the Town to commit time and financial resources to evaluate the manner in which the interim zoning is working and the modifications needed to establish permanent zoning. This option then suspended a final growth management control approach for up to two years which was considered to be an important disadvantage by the Town's Growth Management Committee.

The <u>incentive zoning</u> approach looked to receive benefits from developers in exchange for square feet developed above an "as-of-right" threshold (or minimum). But it was felt that the increased density might not be acceptable to nearby residential uses which might object to the Town's trading increased density for greater benefits.

The proposed <u>modifications</u> to the <u>existing by-laws</u> (Option #3) could be initiated immediately. It required modifications to a number of sections of the existing by-law. The consultants recommended that this option should be considered initially by the Town because it would put strong land use and zoning controls in place in the short-term, which was felt to be important to the Town and Growth Management Committee.

The use of <u>impact fees</u> was a permanent measure and required that "as-of-right" uses provide the Town compensation for the added impacts caused by the development. It was a system that must be very carefully constructed and controlled by the municipality in order to be legally defensible and meet any court challenge. This study presented the type of data and analysis to lead to an impact fee system, but additional analysis that goes beyond our study's work program was felt to be needed before such a system is implemented. Such a system would also require adoption of state enabling legislation to assure that the impact fee system will be legally defensible.





# 4.0 RECOMMENDED SPECIAL USE (S-1) ZONING DISTRICT MANAGEMENT PLAN

#### 4.1 Regulatory Controls

#### 4.1.1 Route 1 Town Well

SEA Consultants' Zone II Delineation Study recommended amendments to the Water Resources Protection District By-Law. These amendments were adopted at the May 1989 Town Meeting (Appendix B). The purpose of the Water Resource Protection District is to protect the public health, safety, and general welfare of the community by:

- a) Preserving and maintaining the existing and potential groundwater supplies, aquifers, and groundwater recharge areas of the Town, and protecting them from adverse development or land-use practices;
- b) Preserving and protecting present and potential sources of drinking water supply for the public health and safety;
- c) Conserving the natural resources of the Town; and
- d) Preventing blight upon and/or pollution of the environment.

#### 4.1.2 Special Use (S-1) Zoning District

The Town adopted numerous modifications and revisions to the Zoning By-Laws at the May 1989 Town Meeting. These amendments established growth controls in the S-1 District (see Section 5.0, Implementation Strategy: By-Law Revisions).

#### 4.2 Traffic Improvement Plan

#### Recommended Roadway Improvements

We expect that by 1996 or 1997, the following road improvements may be necessary to support further development of the S-1 Zoning District:

- o Widen U.S. Route 1 to a six-lane divided highway from I-495 to North Street.
- o Add a free-flow right-turn lane on eastbound North Street.
- o Add a second left-turn lane on northbound U.S. Route 1.
- o Revise signal phasing and increase signal cycle at U.S. Route 1 at North Street.

The proposed AM/PM level of service after implementation of these improvements at Route 1 and North Street will be LOS D/D. Since the number and location of site driveways is unknown at this time, this study cannot address the lane requirements for each entrance—way. However, from our experience, we feel that dual left—turn lanes on U.S. Route 1 will be required, and free right—turn lanes into each entrance—way will also be required.

#### Order of Magnitude Cost Estimate

Typically, the cost of highway design, construction, and right-of-way costs approximates \$1,000,000 per lane-mile. Also, new traffic signal installations cost roughly \$85,000. We expect that the total cost to widen Route 1 to six lanes, add turning lanes to Route 1 at North Street, and resignalize that location will be approximately \$5,000,000 (in 1989 dollars).

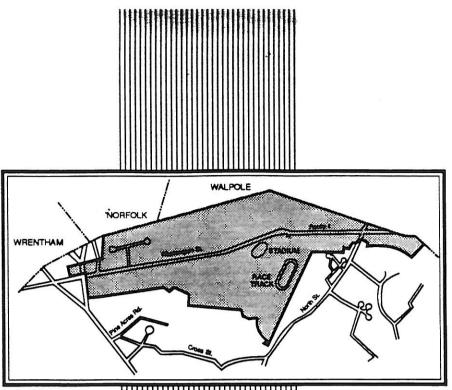
#### 4.2.1 N.F.L. Sullivan Stadium Parking Plan

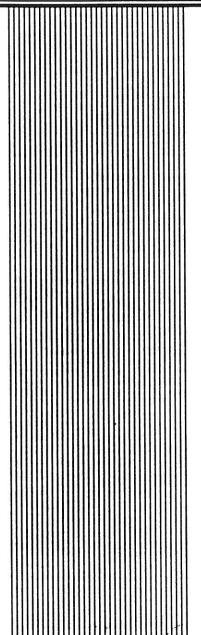
An estimated shortfall of 2,000 parking spaces exists at Sullivan Stadium. This situation has resulted in pedestrian congestion along Route 1 as patrons park further away and walk along the shoulders of Route 1. Satellite parking lots located near I-95 and Route 1 by Route 128 with shuttle-bus service to the stadium would alleviate parking demand, pedestrian, and traffic congestion on Route 1 by the stadium. A traffic distribution and origin analysis should be performed to determine the proper locations for satellite parking lots.

#### 4.3 Capital Improvements Plan/Water System

Existing water pressures in the S-1 District are presently considered adequate. However, improvements to the system are needed.

Existing water pipes along Route 1 in the S-1 District are a combination of 12", 10", and 8". To increase water pressure and flow along Route 1, consistent pipe diameters are needed. A study conducted by Whitman & Howard, Inc. detailed the replacement of 10" and 8" pipes from the Route 140 stand pipe to the Route 1 12" line at Route 1 and North Street. This system improvement project was estimated by Whitman and Howard to cost between \$500,000 - \$600,000. Although this project is not a priority of the Water Commission, construction was determined to be needed within the next five years.





5.0 IMPLEMENTATION STRATEGY: BY-LAWS REVISIONS

#### 5.0 IMPLEMENTATION STRATEGY: BY-LAW REVISIONS

HMM Associates and Edith Netter & Associates prepared and drafted Zoning By-Law Amendments for the S-1 Zoning District. Three public meetings were held with the Growth Management Study in drafting the regulations. These zoning amendments were developed to meet the S-1 District goals and objectives as follows:

- 1) Promote economic development of the Route 1 Corridor and increase real estate tax revenues.
- 2) Maintain good planning and site review principles for new development proposals (i.e., encourage commercial cluster development approaches (PD), reinforce front yard buffers, provide performance standards and more definitive criteria for the Special Permit process, etc.).
- 3) Promote better land uses (i.e., professional office/r&d uses) along the Route 1 Corridor, and discourage strip (or "ribbon") type development.
- 4) Enhance environmental protection and preservation, and preserve Town's rural character.
- 5) Minimize the number of access points onto Route 1 to reduce traffic impacts.
- 6) Minimize demands placed on Town services and infrastructure.
- 7) Implement proper procedures to assure that future development of the Sullivan Stadium and Foxborough Harness Raceway will be completed in accordance with the above planning objectives, and others to be considered that are focused on Stadium uses.

# ZONING BY-LAW AMENDMENT FOR (S-1) ZONING DISTRICT ADOPTED BY FOXBOROUGH TOWN MEETING ON MAY 11, 1989

- Amend <u>Section 105.2. Types of Districts</u>, paragraph D, by adding the following text at the end of the existing paragraph, "The planning objectives and goals for this district are as follows:
  - 1) To promote economic development of the Route One Corridor and increase real estate tax revenues;
  - 2) To maintain good planning and site review principles for new development proposals (i.e., encourage commercial cluster development approaches (PD), reinforce front yard buffers, provide performance standards and more definitive criteria for the Special Permit process, etc.);
  - To attract better land uses (i.e., Professional Office/R&D users) along the Route One Corridor, and discourage strip (or "ribbon") type commercial development;

- 4) To assure environmental protection and preservation, and to preserve Town's rural character:
- 5) To minimize the number of access points onto Route One to lessen traffic congestion;
- 6) To minimize development demands placed on Town services and infrastructure; and
- 7) To implement proper procedures to assure that future development of the Sullivan Stadium and Foxborough Harness Raceway will be completed in accordance with the above planning objectives, and others to be considered that are compatible with Stadium uses."
- Amend Section 201.4 Permitted Uses Table 2–5, as follow:
  - o Medium hazard uses which are now permitted (P) in the S-1 District should be changed to Special Permit (SP).
  - o Industrial uses now permitted (P) in the S-1 District should be changed to Special Permit (SP).
  - o Low hazard uses now permitted (P) in the S-1 District should be changed to Special Permit (SP).
- Amend <u>Section 201.4 Permitted Uses</u> Table 2-5, to provide that the following uses in the S-1 District now requiring Special Use Permits (SUP) granted by the Board of Appeals should be changed to Special Permit (SP). These uses include:
  - o Stadiums
  - o Private Schools/Profit (excluding tractor trailers, daycare centers, and nurseries)
  - o Hospitals, Nursing Homes
  - o Public Utilities
  - o Clubs, Golf, Country
  - o Recreation/Non-Profit
  - Recreation/Profit
- Amend Section 201.4 Permitted Uses Table 2-5, under the Mercantile/ Retail group and add a new listing "#16". The text should be placed as listing #16 in Section 201.4 Permitted uses as follows:
  - o "Automobile storage uses and automobile auctions as primary uses are not permitted in the S-1 District."

- Amend Section 201.4 Permitted Uses Table 2-5, under Medium Hazard Use group and by adding a new listing in "#17". The text should read as follows and be placed as listing #17 in Section 201.4 Permitted Uses:
  - "Rail storage yards are not permitted in the S-1 District."
- Amend <u>Section 201.4 Permitted Uses</u> Table 2-5, under the Industrial Use group by adding a new listing "#18". The text should be placed as listing #18 in Section 201.4 Pemitted Uses as follows:
  - o "Mini self-storage warehouses are not permitted in the S-1 District".
- Amend <u>Section 201.4 Permitted Uses</u> Table 2-5, under the Industrial Use group by adding a new listing "#19" and by adding the text below to Section 201.4 Permitted Uses.
  - o "General commodity/public warehouse/truck terminal as defined below shall not be permitted in the S-1 District."
- Amend <u>Section 104.5 Definitions</u> by adding the following definition after the words Garage, Public, "General commodity/public warehouse/truck terminal: a facility/use whose primary purpose is to distribute or prepare for distribution a wide variety of merchandise, goods, and/or other products via trucks, and including those facilities designed to store such products in preparation for shipping and where such products are generally not made available for retail sale. The storage of tractor trailers, trucks or trailers as a primary use."
- Amend <u>Section 201.4 Permitted Uses</u>, Item "#15", by adding the following text to the end of the existing text: "Land Parcels five acres or less in existance prior to March 23, 1989 are allowed to have 50% of the total floor area used for retail".
- Amend <u>Schedule A Limitations for Business and Industrial Uses</u>, for minimum lot area; Minimum Frontage; Minimum Front in feet, Dimensions Side in feet, Maximum Building Height; and Maximum Coverage Lot including Accessory Structure in %, with specific changes as follows:
  - o Increase minimum lot area from "60,000" sf to "80,000" sf in the S-1 District for frontage on Route One.
  - One, change the figures "200" to "300", and for Subdivisions off Route One from 50' to 200'.

- O Under "Dimensions Side Yard", change the figure "50" to "75'(c)" in the S-1 District for frontage on Route One. At the bottom of the schedule place a new letter "(c)" with the following text: "This requirement may be waived pursuant to Section 201.3G Planned Development Special Use District".
- O Under the heading, "Maximum Coverage Lot, including Accessory Structures, in %" place a new letter "(b)" in the heading and change the existing figure of "40%" to "70%". At the bottom of the Schedule place a new letter "(b)" with the following text, "In the S-1 District this percentage is for total impervious area allowed on a lot."
- Amend <u>Section 200.2 Building Height</u>, paragraph B, after the words, "In any business or industrial district...." add the text, "except the Special Use (S-1) district". Also add the following sentence to the end of the existing text, "In the S-1 District no structure shall exceed 40 feet except those which occur within a Planned Development and which receive a Special permit."
- Amend <u>Section 200.6 Screening and/or Buffers</u> to add a new Section "F", with the following text to be included therein, "There shall be a landscaped buffer strip comprising a minimum of 50 feet of the front yard and 25 feet of the side yard for all uses in the S-1 District. Under no circumstances shall any parking be allowed within these required buffer zones. These requirements may <u>not</u> be waived. Insofar as there may be inconsistencies with Section 200.6.C.1, the provisions of this Section (200.6.F) shall apply in the S-1 District in <u>all</u> cases".
- Amend the <u>Site Plan Review Checklist</u>, <u>Section 200.7.E</u>, to add new listings "#22", "#23", and "#24", with the accompanying text as follow:
  - "22. Protection of natural, historic and scenic areas."
  - "23. Impacts on the infrastructure (i.e., water, sewer, roads) systems of the Town."
  - "24. Fiscal impacts on the Town facilities and services."
- Amend <u>Section 103.3 Special Permits</u> by adding a new Section; "J Special Permit: Development within the S-1 District" with the new text as follow:

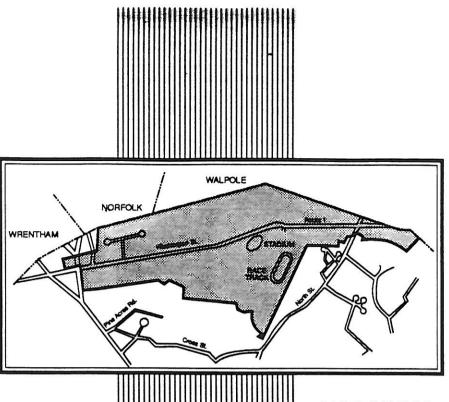
"Applicants seeking Special Permits in the S-1 District shall comply with the following standards and requirements. Section 200.7 <u>Site Plan Review</u>, shall not apply to any proposal which receives a Special Permit within the S-1 Zoning District".

- 1) The Board shall obtain with each submission a deposit sufficient to cover any expenses connected with the public hearing and review of the plans. The Planning Board is authorized to retain a registered professional engineer, architect, or landscape architect, or other professional consultant to advise the Board on any or all aspects of the site plan. The cost of this advice shall be borne by the applicant.
- 2) Prior to the required public hearing before the Special Permit Granting Authority the applicant shall meet informally with the Board of Selectmen. The Board of Selectmen shall present its comments to the Planning Board before the Public Hearing date.
- 3) The development shall be integrated into the existing terrain and surrounding landscape. Building sites shall, to the extent feasible:
  - a) Minimize use of wetlands, steep slopes, floodplains, hilltops;
  - b) Preserve natural or historic features;
  - c) Maximize open space retention;
  - d) Minimize obstruction of scenic views from publicly accessible locations;
  - e) Minimize tree, vegetation and soil removal, blasting and grade changes; and
  - f) Screen objectionable features from neighboring properties and roadways.
- The development shall be served with adequate water supply and waste disposal systems. If the lot falls within the Water Resource Protection District, the Special Permit request shall state such. The criteria necessary for the granting of this Special Permit under Section 105.2G shall apply and be incorporated into the design of the plan. The Special Permit granted shall fulfill the requirements of both sections and shall be noted as such by the SPGA.
- 5) The development shall incorporate measures that are adequate to prevent pollution of surface or groundwater, to minimize erosion and sedimentation, and to prevent changes in groundwater levels, increased rates of run-off and potential for flooding. Drainage shall be designed so that peak flow rates shall not be increased above pre-development levels, and groundwater recharge is maximized.
- 6) To the extent feasible, development shall minimize demands placed on Town services and infrastructure.
- 7) The development shall maximize the convenience and safety of vehicular and pedestrian movement within the site and in relation to adjacent ways.

- Building design and landscaping shall be in harmony with the prevailing character and scale of buildings in the neighborhood through the use of appropriate building materials, screening, and other architectural techniques. Variation in detail, form and siting shall be used to provide visual interest and avoid monotony. Proposed buildings shall relate harmoniously to one another.
- 9) Electric, telephone, cable TV and other such utilities shall be underground except where this cannot be accomplished because it is physically or environmentally infeasible, in which case a waiver from such will be requested by the applicant.
- 10) Exposed storage areas, machinery, service areas, truck loading areas, utility buildings and structures and other unsightly uses shall be set back and/or screened to protect neighbors from objectionable features.
- 11) The Planning Board may require that the principal access road be laid out and constructed in accordance with Town standards, as listed in the Rules and Regulations Relating to the Subdivision of Land, Town of Foxborough (Revised: November 1987).
- Buildings shall be sited so that obstruction of views from the public ways will be minimized.
- 13) No land use or establishment shall be permitted to produce a strong, dazzling light or reflection of that light beyond its lot lines onto neighboring properties, or onto any town way so as to impair the vision of the driver of any vehicle upon that town way. All such activities shall also comply with applicable Federal and State regulations.
- 14) Excessive noise at unreasonable hours shall be required to be muffled so as not to be objectionable due to intermittance, beat frequency, shrillness, or volume.
- 15) To the extent feasible, common driveways shall be encouraged.
- Parking lots loading area regulations. Side yard requirement may be waived provided that: (1) the 25 foot buffer is maintained; and (2) the total of both side yards equals or exceeds 150'. Parking is allowed in the front yard provided that a 50' buffer strip and 75' minimum building set back are provided. Side and rear yard parking is perferred.
- Amend <u>Section 201.3</u>, <u>Planned Developments</u>, by adding a new Section; "G, <u>Planned Development Special Use District (PD/S-1)"</u>. The following text shall be included under this heading:
  - 1) Any use or uses permitted As-of-Right or by Special Permit may be included in a PD/S-1 District.

- 2) All of the criteria found in Section 103.3.J, and Schedule "C", of these by-laws shall apply to all applications for Planned Developments.
- 3) Applicants for a PD/S-1 must seek a Special Permit from the SPGA and meet informally with the Board of Selectmen to seek its recommendation on the project.
- 4) The following regulations and restrictions apply to all PD/S-1 Developments:
  - o <u>Height</u>: The maximum height allowed is 60 feet. (This allows for increased density through a 20-foot height bonus over the proposed 40-foot height maximum in the S-1 District.
  - o <u>Retail</u>: The percentage of mercantile/retail uses allowed is be established at fifty (50) percent of gross floor area of all of the structures combined. All retail use may occur in one structure provided that the 50% limit for the entire P.D. is not exceeded. (This provides for greater flexibility for the developer over the 25% retail limit currently within the S-1 District.)
  - o Lot Size: Minimum lot size is five (5) acres.
  - o <u>Lot Coverage</u>: Maximum impervious surface coverage is 70%. Density increases may occur by allowing greater height.
  - o <u>Lot Lines</u>: No requirements.
  - o All other dimensional and use requirements do not apply in the PD/S-1 except as provided for in the Special Permit Rules and Regulations.
  - o The only PD permitted in the S-1 District is the PD/S-1.
  - o Increases to dimensional and use requirements such as increases in height and density may be provided in exchange for the Applicant creating a project that is designed in such a manner as to maximize benefits to the Town such as well-designed landscaping, common driveways, and design that is in harmony with the topography and the natural environment, and minimizes impact on infrastructure.
  - Parking lots loading area regulations. Side yard requirement may be waived provided that: (1) the 25 foot buffer is maintained; and (2) the total of both side yards equals or exceeds 150'. Parking is allowed in the front yard provided that a 50' buffer strip and 75' minimum building set back are provided. Side and rear yard parking is perferred.

- Amend Schedule C. Limitations for Planned Developments, by adding a new heading under the word type; "PD-Special Use District". Under the heading Minimum Acres place the figure "5", under the heading Minimum Frontage in feet, place the figure "60" and under the heading Minimum Open Space/Percent of Gross Area, place the figure "30%".
- Amend <u>Section 103.3 Special Permits</u>, paragraph D, by adding the following text to the end of the existing paragraph: "Planned Developments/Special Use District shall specifically conform to the Design and Construction Standards (Sections 304 and 305 of the Rules and Regulations Relating to Subdivision of Land, Town of Foxborough). However, PD/S-1 Developments do not have to seek an approval pursuant to MGL Chapter 41.



APPENDIX

#### APPENDIX A

PRELIMINARY NON-RESIDENTIAL BUILD-OUT ASSUMPTIONS
METROPOLITAN AREA PLANNING COUNCIL (MAPC)
JUNE 1988



### Metropolitan Area Planning Council

110 Tremont Street Boston, Massachusetts 02108 (617)-451-2770

Serving 101 Cities & Towns in Metropolitan Boston

## PRELIMINARY RESULTS OF THE NON-RESIDENTIAL BUILD-OUT ANALYSIS

Presented to the Foxborough Growth Policy Committee for Review and Comment June 23, 1988

1) NOTES: Preliminary Results of the Non-Residential Build-Out Analysis.

2) CHART: Preliminary Results of the Non-Residential Build-Out Analysis.

3) LIST: Parcels Included in the Non-Residential Build-Out Analysis.

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PLANNING BOARD

#### I. NOTES ON THE DATABASE

The list of parcels (Attachment #3) included in the non-residential build-out analysis contains seventeen columns of data. An explanation of selected columns is given below.

Column 5 - OWNER: Owner's name is given for developed parcels only.

Column 6 - RTE 1: 'Yes' indicates that the parcel has frontage on Route 1. A blank in this column indicates the parcel does not have frontage on Route 1.

Column 7 - LOTSIZE: Lotsize is given in square feet and represents buildable area.

Column 9 - BUILD-OUT: This represents the maximum square feet of development which can be accommodated on a parcel given the particular dimensional and parking requirements for that zoning district.

Column 10 - RESIDUAL BUILD-OUT: Residual build-out represents the difference between build-out and any existing building on the parcel. It is the number of additional square feet that could be accommodated on that lot.

Column 11 - % BUILD-OUT: This represents the percentage of the lot which is currently built on.

Column 12 - EMPLOYEES: This is the number of employees which theoretically would be generated by development on a parcel at full build-out given the assumptions regarding the type of use. In most cases, the build-out analysis assumes retail development which gives a worst case scenario in terms of traffic generation. This number does not reflect the actual number of employees generated by the existing use on a parcel.

Column 13 - EMPLOYEES RESIDUAL BUILD-OUT: This column represents the number of new employees which would be generated by new development on a parcel under the build-out assumptions regarding use.

Column 14 - BUILD-OUT OFFICE (S-1): The S-1 district requires that no more than 25% of development on a parcel can be retail. The build-out program assumes that 25% will be retail and calculates build-out accordingly. This column indicates the square footage of office development. Column 16 indicates the square footage of retail development at full build-out.

Column 15 and 17 - RESIDUAL OFFICE, RESIDUAL RETAIL: These two columns indicate the additional development of office and retail uses for parcels in the S-1 District.

#### II. ASSUMPTIONS OF THE NON-RESIDENTIAL BUILD-OUT ANALYSIS

The results of the non-residential build-out analysis must be considered in the context of the assumptions governing the analysis. These assumptions were discussed in memos to the Growth Policy Committee dated April 28 and May 26. These assumptions should be reviewed. Some additional assumptions have been made as follows:

- The assumption regarding the size of a parking space has been revised as per discussions with the Planning Board. The size of a parking space will be 350 square feet rather than 250.
- 2) The estimation of future employment in the build-out analysis is done by applying a conversion factor which indicates the number of square feet of development which generates one employee. The following conversion factors were used:

Retail: 1 employee per 588 square feet. Office: 1 employee per 220 square feet.

These employment conversion factors were obtained from different sources and were approved by the Central Transportation Planning Staff for use in other build-out studies. The office employment conversion factor came from the BRA report, Planning for Boston's Next Decade of Development, Jason Kelly, Report #105 May 1980, revised 1983. The retail employment conversion factor came from the Quick Response Urban Travel Estimation Techniques and Transfereable Parameters, National Cooperative Highway Research Program Report #187.

III. PRELIMINARY RESULTS OF THE NON-RESIDENTIAL BUILD-OUT ANALYSIS

See attached chart.

PRELIMINARY RESULTS OF THE NON-RESIDENTIAL BUILD-OUT 6/23/88

	Square Feet	% of Build-Out	New Employees Residual Build-Oul
TOTAL BUILD-OUT		1 1 1 1 1 1 1 1	
General Business Highway Business Neighborhood Business General Industrial Limited Industrial Special Use Total Office	192,615 704,335 .75,737 1,039,350 -3,356,406 -1995235 7,848,535 5,886,403 1,962,132	1.46 5.33 0.58 7.86 25.39 59.38	
Subtotal RESIDUAL BUILD-OUT	13,216,978	100.00	
General Business Highway Business Neighborhood Business General Industrial Limited Industrial Special Use Total Retail	29,388 564,248 20,693 859,924 2,978,278 7,601,665 5,701,249 1,900,416	0.24 4.70 0.17 7.13 24.70 63.06	50 957 35 1,465 5,065 29,146
Subtotal	12,054,196	100.00	36,718
SQUARE FEET OF EXISTING NON-RESIDENTIAL DEVELOPMENT	1,162,782		

# MON-RESIDENTIAL BUILD-OUT PRELINIMARY RESULTS 6/73/80

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,	000	VALABI LIBER			80.00	•	•	•	8	•	•	•	•	•	•	
~ (	5345 61	STORAGE			15247.00	7200	40829	13679	17.63	3	8	•	•	•	•	
7	19 15/1	S. Carrier	EN ENGINEER TO CO.		61223.00	218	27100	200	¥. ₹	\$	92	•	•	٠	•	
• .	-5 :	VICANI COM		2 1	193000.00	•	97114	82714	3	3	21)	62036	95029	20678	20478	
	-5 = 6	VACABL COM		2	M400.00	•	•	•	8	•	•	•	•	•	•	
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			<b>S</b>	168280.00	•	72120	72120	8.8	m	111	24090	24090	16030	10030	
		VALUE COM		2 :	90.00	•	•	•	8.	•	•	•	•	•	•	
	-5 0	VALAR! COM	•	9	87876.00	•	3	3214	8.	=	=	7837	2637	879	63	
		VACAMI COM		2	182780.00	-	12714	127 127 127 127 127 127 127 127 127 127	8.	13	5	26786	26786	8928	8928	
	-	STAN MICE	RODRAH. D.	TES	326192.00	227.20	152654		21.50	Ş	\$	114490	94876	38164	29954	
n .		VALEAR! CURR		2	457393.00	•	19699		8.	R	123	50223	50223	16/41	<b>E</b>	
σ.	25 5-	SMALL RETAIL	CIVILIASKI, J	YES	130717.00	9185	43936		20.00	7.	3	34452	27563	11484	2015	
•	-5 55	VACKAT COM		물	1159400.00	•	988761	196886	8.0	1905	1905	372664	372664	124222	174777	
95	-5 95	VACANT COM		2	218200.00	•	1221	13514	0.0	Š	139	20136	70136	23378	23378	
	2539 5-1	VACAMI CONS		9	103490.00	•	H 353	44353	3.	2	2	33265	13265	11088	1088	
	1024 5-1	RACE IRACK	FOTBORD ASSOCIATION	2	9372700.00	•	1016957	1016937	8.0	13402	15402	3012718	3012718	1004239	1004239	
2	1-5	NOTOR VEHICLES	GALL DOMY. A.	ES	00.0760	2200	2200	_	00.00	2	•	2900	•	1300	•	
	-5 :	NOTOR SALES	RODINAL D.	TES	104840.00	55	23110	10915	2.62	¥	2	39838	38702	13280	13901	
	1-5 659	VACAMI COM		YES	64760.00	•	27.154	27154	8.	3	90	20816	2001	87.69	DC 6.9	
2	322 5-1	VACANT COM		묘	1388568.00	•	595101	595101	8.	2002	2287	446326	446326	148775	148775	
2	324 5-1	VACCAIT COM		TES	1561559.00	•	236182	276102	0.00	1059	1059	207136	207136	49049	93049	
2	1-5 951	AUTO MEPAIA	KRITIMA. C.	YES	457770.00	188	164637	160149	2.13	154	114	123470	120112	41159	40037	
			IF.K. BEAL IY CORP.													
ដ	1-5 (*)	VACENT 1105.	FOIDORD INDUSTRIAL	2	2263120.00	•	286916	286946	8.	8	3	215210	213210	2112	27.17	
77	1-5 677	TEL FRANKE	M F TELEPHONE	£	00 11161	•	34041	3444	8	į	į					
2	:	ENCHANGE	1	1	8	•			3	Ę	Ę	1000	2000	71911	20	
	1-5 /51	VACENT COM		3	125017.00	•	53579	53579	8	55	202	40184	40184	13395	13383	
	1-5 269	VACANT COUN		8	22610.00	•	901	8	8.8	7	=	5009	\$104	2022	202	
	1-5 569	VACANI COM		夏	1110344.00	•	107916	102946	9.6	Ë	33	17210	17210	257.25	25.736	
3 ,	1362 S-1	AESTAURANT	9000	VES	185543.00	114	19528		<b>3</b>	ĕ	270	59614	52784	19802	175%	
	-5 =5	TJ OH	EMDIGME REALITY TRUST	9	411642.00	26174	40020	2 <del>177</del> 0	15.40	3	3	30015	10384	10005	3462	
	75 S-1	AEST.	LAFAYETTE HOUSE	VES	84210.00	2196	15131		26.15	Ξ	5	27568	20359	918	90/9	
	2	OFFICE	SAEGH. M	¥5	181209.00	700	17661		3.09	270	209	58246	26446	19415	10015	
	1.01 5-1			TES	123274.00		22832		14.63	202	2	39624	33828	13208	11276	
	1-5 677	STURME	MOISCHAIA, E.	YES	17902.00	39.50	7101	•	20.42	30	2	27876	28351	19275	3	
	1-5 20	VACAMI COM		165	991534.00	-	294903		8.	133	131	299929	299929	9666	91666	
	-5.00	VALABI CUE		3	652964.00	• ;	250		8	23	787	22122	58123	575	E .	
	1.5 10/1	HEST ALMAN	DEVINCENT. S.	15	80400.00		800		0.22	Ξ	<u>=</u>	20125	72250	573	ì	
	-5 969	WILL STREET	MIPHIS, A.	TES.	199940.00	7.78	39786	_	10.65	51	133	29484	23968	1822	7910	
	2568 5-1	STURGER	SANDBLEE, N.	<b>2</b> 5	204296.00	22740	20.244	7557	31.74	220	133	4300g	25916	14336	<b>37 37</b>	
		VEL AND LUNG		≘	36340.00	•	10942		8.6	=	=	•	•	•	•	

# MON-RESIDENTIAL DUILD-OUT Prelimmay result 6/23/80

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	RE SI DUAL	RETAIL.	G-5	•	•	•	20.	•	•	•	•	•	0	•	•	•	c	• <	•	•	• <	•	•	• •	• •	•	• •		•	•	•	•	•	•	۰ ،	• •	• •	• •	•	•	•	•	•	•	•	•	•	•
		RETAIL	(1-5)	•	•	•	202	• •	•	•	•	•	•	•	•	0	•		> <	• •		• •	• •	• •	•		٠	•	•	•	•	•	•	•	•	<b>.</b>		•	•	•	•	•	•	•	0	•	•	•
8	DESIDUAL BUILD-DU	OFFICE	-S	•	•	•	2246	•	•	•	•	•	•	•	-	٠	4		• •	• •	, .		• •	• •	• •	• •			•	-	•	•	•	•	•	• •	• •		•	•	•	•	•	•	•	•	•	•
		OFF ICE	G-5	•	•	•	2	• •	•	•	•	•	•	۰.	•	•	•	. <	•	•	• «	• •	• •	•	• •	• •			•	•	•	•	•	•	•	• •		• •	•	•	•	•	•	٠	•	•	•	•
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	OTEES ENT	<b>H</b>		•	120	<b>a</b>	7	<b>=</b> ;	3	2	2	3	\$	Ξ	2	2	•	. ;	5 '	٠ :	3 5	2 -	7 9	2 4		! =	. 67	: \$	318	•	=	2	-	-	= '	9 9	۶ -	. =	. ~	_	2	17	-	•	=	-	7	•
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Į	S DEAT 1			880			_				12000	-52904			212	9	7001		•												11011				24.5	0 1300		1044			95.							÷
		3		1089	979	1317	2	93.79	36	7002	2000	200	3777	90199	2165	8087	1040	0007	2711	11.00		1	21.75	49.0	35404	2					11071		1111	99	545						3500		1855	7914	22	2100	2	<b>5</b>
	LOISILE BUILDING BUILD-DUI RESIDUAL I BUILD ENTOTEES ENTOTEES BUILD-DUI	37.15		•	•	18340	1791	•	-	•	<del></del>			_	8	8087	6701	70071	150	1000		000	8 5	3 -	•	' • •	•	. 0			-	•		340	•	· •			. 165		•	•	•	•	-	•	•	•
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	75101			34960.00	01700.00	300281.00	2018	85790.60	67540.88	26272.00	4000.6	219030.60	46537.00	223027.00	19707.00	276	00 00/01	A BOATCC	15044 00	A 00171	24045	1875 00	21831 00	30000	17070 00	27,466 96	207-41 80	55310.00	4 14041 60	15156.00	21133.00	10124.60	7805.00	720523.00	2340 80	14360.00	11000 00	24175, 000	00.00	11026 90	23019.00	15811.80	15310.00	22510.00	31373.00	14059.00	10000.00	340.00
	3	_		TES	YES		165	•	YES	YES	TES.	TES		YES	ES.																																	
	Similar			*		CHACE.B.						ANTOKAL. A.	LUZ10. 6.	SPIEN. A	· WITE, A.	MASS. CABLEVISIDA	202. JEL.	COAY B	GMOL F.	Subs. B	0.0000	BOWCE 1	USA OCALTY THE										EMERGY RETAILER	FEMBUSON, II.					MASS. FIFCIBIC CO.									
	351 52			VACANT COM	VACAUT COM	LUMBER YARD	MOTEL	VACAMI COM	VACAMI COM	VECAST COM	VACEAT COM	STORAGE	ANTO SUPPLIES	DFFICE	SAE EMDUSE	DEF ICE	#012419 343	DISCOUNT CTOOL	Distribution Street	CTOOLC	Jimmer O'C'	lical pical	CHALL DETAIL	DESCRIPTION	UCCANT IND	UACEMT IND	UACANT IMB		VACANT 1885	VACANT IND	VACAMIT IND	VACCENT IND	Cen masa	GARGE	VACAMI IND	VACCATION	VALUE INC.	UACANT IND	EI FCINICA	VACENT 1110	VACCES 180	VACCANT IND	VACAMI COMM	VACUAL COM	VACANT COM	VACANT COMM	VACCANT COM	VACANT COMM
	NAP PARCEL TOWNERS USE			976 HB	78 FE	3	1-5 8/6	1376 E	1274 15	47. 25	52. 35.	37.2 至	豆 9/5	<b>1</b> 2	4674 BE	186 18	900	1 2 2 2		10 000	781				15.06.51	13.967	13.02.51	1531 61	1517 61		1540 61	1549 61		140 60					19 00	9 766			2244 68				2233 68	2271 60
	2			\$	2	\$	\$	<b>.</b> .	<b>.</b> 7	.7	ភ	7	ភ	5	5	5	:	5 2	5 ;	5 :	5 ;	5 .	5 ;	5 :	3 8	3 :	: :	3 27	1	8	33	:3	3	3	3	3 :	3 3	3	: 3	3	87	7	79	3	5	13	7	5

# MON-RESIDENTIAL DUILD-DUI Prelinimar Acsuls 6/23/00

1871   1971															
1   1   1   1   1   1   1   1   1   1	2	RIE					R S Date		EMPLOYEES	ENTITUEES		E SI DAM		M SIDIM	
1844.40   0   4445   4445   0.00   77   71   45-11		-			3115	_	10-01m	3		ESI PLAN	DEFICE	MFICE	DETAIL.	RETAIL	
Table   Tabl										PULLO-61	(5-1)	(5-1)	(1-5)	(1-5)	
Titling			3	8.19	•	16485	16405		2	2	•	•	•	•	
Title, or   1144   1144   0   104, or   12   0   0   0   0   0   0   0   0   0			2	247.00	•	12250	12250	3.	=	7	•	•	٠	•	•
TYPE	AUDICION. 1	_	2	8.0	9917	35	•	8	2	•	•	•	•	•	
Table 10   2300   2300   2300   100.00   4   9   9   9   9   9   9   9   9   9	ALY COLOMY ASSE.	A59C.	7	126.00	2360	8	3	19.67	<b>17</b> 1	-	•	•	•	•	
TSSSI, 60 1349 1379 0 104.00 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	MICHOET. II.		_	20.00	2300	22	•	8	-	•	•	•	٥	-	
TES   1270.00   1230   1230   1331   1   100.00   1   1   1   1   1   1   1   1   1	MEDDED		7	8.12	3240	3240	•	3	•	-	•	•	•	•	
TES   1278, 80   1278   2284   100.00   11   0   0   0   0   0   0   0   0	CAMED. II.		_	X . 8	4500	456	•		-	•	•	•	•	•	
TES   12784.00   4274   2274   0   100.00   11   0   0   0   0   0   0   0   0	CONCOUNT.		=	71.E	\$	2	720		~		•	•	•	•	
TES   12781.00   22791   22794   0   100.00   11   0   0   0   0   0   0   0   0	COMEDON, IL.		-	2.2	1531	1281	•	8	•	•	•	•	•	•	
TES   12784.00   2274   2274   0   100.00   11   0   0   0   0   0   0   0   0															
TES   12784-80	STORE		_	8.93	1224	2244	•	8.8	-	•	•	•	•	•	
14230.00   5428   5428   0   100.00   10   0   0   0   0   0   0   0   0	DUMICLESS. J.	YES		296.00	9573	25.44	•	8.8	=	•	•	•	•	•	
114   4534.60   5424   5424   0   100.00   10   0   0   0   0   0   0   0   0	FOILDED HAT IONAL			230.00	5428	27.5	•	8.8	•	-	•	-	•	•	
18.571.00   2324   2324   2324   0   100.00   10   10   10   10   10	re a	!													
11574.00   14072   4677   60 100.00   10   10   10   10   10   10	FOIDORD THEATOR THE.	£ IEC.	•	354.88	5824	5824	•	100.00	2	•	•	-	•	•	
51. 2741.00 1440 2440 101.00 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GALVIN. 6.		71	3.65	6072	6072	•	90.00	2	•	•	•	•	•	
115.51.60   116.62   20034   1170   116   10   0   0   0   0   0   0   0   0	GAY. K.		7	918.80	2460	2460	•	3.00	-	•	•	•	•	•	
119754.00   18144   20034   1870   90.47   34   3   0   0   0   0   0   0   0   0   0	GEARY, J.			41.00	9672	1672	4		91	•	•	0	•	•	
1354.00   18180   1819   0 100.00   14   0   0   0   0   0   0   0   0   0	MEAS. J.		=	324.8	99181	2003	1870		*	~	•	•	•	•	
51. 5149.60 1121 1151 0 100.00 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 100.00 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JEROME. J.		2	546.00	3	301	•	90.00	Ξ	•	•	•	0	•	
51.	KEATINS. N		•	115.00	213	3151	•	8.8	v	•	•	•	•	•	
1717.00   7847   7847   0 100.00   5   0   0   0   0   0   0   0   0	NACODMALD. D		•	320.88	2244	2244	•	20.8	-	•	•	•	•	•	
1233.00   1950   1950   100.00   2   0   0   0   0   0   0   0   100.00   1   0   100.00   1   0   100.00   1   0   0   0   0   0   0   0   0	MASS. EAST. COMST.	.151	~	343.88	7967	2847	•	80.00	'n	•	•	•	3	•	
1372.06   900   910.00   2   0   0   0   0   0   0   0   0	ä													,	
1273.06   1950   1950   1950   196.00   3   9   0   0   0     12790.06   1954   1952   196.00   3   0   0   0   0   0     2866.60   2112   2112   0   190.00   4   0   0   0   0   0     2866.60   2112   2112   0   190.00   4   0   0   0   0   0     2866.60   2112   2112   2112   311   18   0   0   0   0   0     2860.00   1940   1940   0   190.00   2   0   0   0   0   0   0     2860.00   1940   1940   0   196.00   2   0   0   0   0   0   0     2870.00   2874   2854   0   190.00   2   0   0   0   0   0   0     2873.00   2874   13507   1955.7   21.13   23   18   0   0   0   0   0     2873.00   2874   13507   1955.7   21.13   23   18   0   0   0   0   0     2873.00   2874   13507   1955.7   21.13   23   18   0   0   0   0     2873.00   2874   2145   0   100.00   4   0   0   0   0   0     2873.00   2874   2145   0   100.00   4   0   0   0   0   0     2873.00   2874   2775.00   4200   0   100.00   7   0   0   0   0     2873.50   2874   2775.00   4200   0   100.00   7   0   0   0   0     2873.50   2874   2775.00   4200   0   100.00   7   0   0   0   0     2877.50   2874   270.00   270.00   0   100.00   7   0   0   0   0     2877.50   2874   270.00   270.00   0   100.00   7   0   0   0   0     2877.50   2874   270.00   270.00   0   100.00   7   0   0   0   0     2877.50   2874   270.00   270.00   0   100.00   7   0   0   0   0   0     2877.50   2874   270.00   270.00   0   100.00   7   0   0   0   0   0   0     2877.50   2874   270.00   270.00   0   100.00   7   0   0   0   0   0   0   0   0	MAYFAIR REALTY		7	722.00	2	2	•	8	r 4	•	•	•	•	•	
12190.00   3226   3526   0   100.00   6   0   0   0   0   0   0   0   0	NDOKE. P		-	27.8	32	3	•	8	_	•	ت	•	•	•	
294.64.00         2112         2112         2112         0 100.60         4         0 <td>HORDINI. 3.</td> <th></th> <td>=</td> <td>30.8</td> <td>7526</td> <td>122</td> <td>•</td> <td>2</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td></td>	HORDINI. 3.		=	30.8	7526	122	•	2	•	•	•	•	•	•	
TRIJET   0.00   2560   2569   0 100.00   4   0   0   0   0	EDRSE. C.		Σ.	E . E	2112	2112	•	8	<del>-</del>	•	•	•	•	•	
47919:00 D000 18511 16511 43.22 31 18 0 0 0 0 100.00 0 100.00 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MORFOLK COUNTY TRUST	IY TRUST		3	32	2	•	8.8	-	•	•	<b>ی</b>	•	•	
2100-00         1040         1040         0 100-00         2         0         0         0           30403.00         2.844         2.844         6.100.00         5         6         0	CENTERAL		2	8.6	200	=======================================	1020	13.22	=	=	•	•	•	•	
30403.00 7040 11443 4663 40.47 20 8 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0	CILISMA		_	8.8	1040	950	•	8.8	7	•	•	•	•	•	
1379.00         2644         2644         0 100.00         5         0	OLIVIERS. IL.		3	8.5	7040	3	4663	\$0.4°	2	•	•	•	•	•	
10690.00 4372 4372 0 100.00 7 0 0 0 0 0 0 12190.00 15 0 0 0 0 0 0 0 0 12190.00 15 0 0 0 0 0 0 0 0 0 0 12291.00 800 0 100.00 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D'AEILLY, J.		~	39.8	2664	2664	•	20.00	<b>57</b>	•	•	•	•	•	
12199-06 8800 8800 0 100-00 15 0 0 0 0 0 2 20278-06 2834 2854 0 100-00 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PACITIB. C.		2	30.00	4342	4342	•	8.8	<b>,</b> -	•	•	•	•	•	
20278.60 \$1034 \$2834 \$100.60 \$2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	REA CRAFT PRESS	S	12	8.8	0084	800	•	8.8	2	•	•	•	•	•	
20270.00 2834 2854 0 100.00 5 0 0 0 0 0 10000.00 4162 4162 0 100.00 7 0 0 0 0 0 0 0 10000.00 10 0 0 0 0 0 0 0	Soula. J.		7	2.2	8	3	•	8.8	1	•	•	•	•	•	
10293.00 5948 5948 0 100.00 10 0 0 0 0 0 0 10293.00 5948 5948 0 100.00 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STAMEY, 6.		2	270.00	2854	2854	•	8.8	•••	•	•	•	S	•	
47233.00         2834         3948         0 100.00         10         0	TOUMBOUL IS. V	_•	2	80.89	4162	4162	•	28.8	7	•	•	•	•	•	
67533.00 2854 13507 10653 21.13 23 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NEW EMBLAND		=	293.60	2948	2940	•	8.8	2	•	•	•	•	•	
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# Metropolitan Area Planning Council

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# FOXBOROUGH BUILD-OUT ANALYSIS INFORMATION MEMORANDUM

Presented to the Foxborough Growth Policy Committee April 28, 1988

Martha K. Gjesteby. Treasurer

#### FOXBOROUGH BUILD-OUT

#### I. PURPOSE OF THE BUILD-OUT

Much of growth management planning is based on determining a town's capacity to handle future growth in terms of its impact on infrastructure and fiscal resources. Analyzing the capacity to handle growth requires some measure of future growth. This is achieved by performing a build-out analysis which projects the maximum potential development on a community's land under the constraints of existing local land use controls and environmental factors. The build-out analysis consists of two components: residential build-out and non-residential buildout.

The residential build-out looks at all vacant, developable land which is residentially zoned and determines the number of housing units which could be built on the remaining land under existing zoning. The number of units is used to determine the future population and requirements for additional capacity in the school system and for other municipal services.

The non-residential build-out looks at the potential for development on vacant land zoned for industrial, commercial or office development. It will also consider the potential for expansion and redevelopment on selected developed parcels which are not currently developed to their maximum density.

#### II.ASSUMPTIONS

In order to arrive at an estimate of future development, certain assumptions must be made concerning growth patterns and the application of the zoning bylaw.

#### ASSUMPTIONS APPLICABLE TO BOTH BUILD-OUT ANALYSES

- 1) The build-out analysis assumes no parcels are re-zoned and that no changes are made to the zoning bylaws.
- 2) The build-out analysis does not take into account the possibility of granting variances.
- 3) The build-out analysis assumes that there are no changes in lot sizes. The possibility of combining lots to create a larger lot able to meet the minimum requirements or to take advantage of development options is not considered.

- 4) For parcels identified by the Planning Administrator as containing significant wetlands, the lotsize was reduced to reflect the buildable acreage.
- 5) All parcels within the Water Resources District were identified and subjected to the more stringent requirements for lotsize and setbacks.

#### ASSUMPTIONS APPLICABLE TO THE RESIDENTIAL BUILD-OUT

- 1) The residential build-out analysis does not consider lot geometry in determining the number of units which can be built on any given lot and does not consider setbacks and frontage requirements.
- 2) Although residential development is allowed in the GB and NB districts, the build-out assumes that all future residential development will occur in residential districts only.
- 3) Due to economic factors, it is assumed that all future residential development in the R-15 zone will be two-family or multi-family, according to the lotsize.
- 4) On parcels for which there is an approved or pending subdivision likely to be approved ( as determined by the Planning Administrator), the actual number of units will be used rather than the number that would be derived using the build-out methodology.
- 5) On lots of a certain size ( to be determined) , the lotsize will be reduced by 15% to account for the area required for new roads.
- 6) The build-out analysis assumes that all residentially zoned parcels will be developed as residential and that no Planned Developments with mixed uses will occur.

#### ASSUMPTIONS APPLICABLE TO NON-RESIDENTIAL BUILD-OUT

- 1) Setback and frontage requirements are considered in determining the build-out potential. The lot frontage and depth are factored in but all lots are assumed to have a regular shape.
- 2) In districts where both office and retail development are permitted uses, the build-out analysis assumes that retail development will occur.
- 3) The zoning bylaw (Table 2-7) contains differing parking requirements based on the size of retail development. Because most of the undeveloped retail parcels are small, the requirement of one parking space per 175 square feet of retail development required for retail development under 15,000 square feet, will be used in the non-residential build-out.
- 4) The provision for increased front yards when a non-residential lot abuts a residential lot (Schedule A of the Zoning Bylaw) will be ignored due to the small number of lots which would meet this criterion.
- 5) As per discussions with the Planning Board Engineer, the figure of 250 square feet per parking space will be used when calculating the area required for parking.

1. 300 rg. ft

### APPENDIX B

WATER RESOURCE PROTECTION DISTRICT BY-LAW PREPARED BY SEA CONSULTANTS, MARCH 1989

December 6, 1988 revised: January 10, 1989 revised: January 25, 1989 revised: March 20, 1989 revised: March 24, 1989

### DRAFT #5 Town of Foxborough Water Resource Protection District

### SECTION I

### **Pindings**

The Town of Foxborough finds that:

- (a) the groundwater underlying this Town is a significant source of its existing and future drinking water supply.
- (b) the groundwater aquifers are integrally connected with, and flow into, the surface waters, lakes, and streams which constitute significant recreational and economic resources of the Town.
- (c) spills and discharges of petroleum products and other toxic and hazardous materials and the discharge of sewage have repeatedly threatened the quality of such ground water supplies and related water resources throughout Massachusetts and elsewhere, posing potential public health and safety hazards and threatening economic losses to the affected communities.

### SECTION II

### Purpose of District

The purpose of the Water Resource Protection District is to protect the public health, safety, and general welfare of the community by:

- (a) preserving and maintaining the existing and potential groundwater supplies, aquifers, and groundwater recharge areas of the Town, and protecting them from adverse development or land-use practices;
- (b) preserving and protecting present and potential sources of drinking water supply for the public health and safety;
- (c) conserving the natural resources of the Town; and
- (d) preventing blight upon and/or pollution of the environment.

### SECTION III

### Scope of Authority

The Water Resource Protection District shall be considered as overlaying other zoning districts. Any use not permitted in the other zoning districts shall not be permitted in the Water Resource Protection District. Any uses permitted in the portions of the districts so overlaid shall be permitted, except that where the Water Resource Protection District imposes greater or additional restrictions and requirements, such restrictions and requirements shall prevail.

This bylaw is adopted under Massachusetts General Laws, Chapter 40A, as amended.

### SECTION IV

### Establishment and Delineation of Water Resource Protection District

For the purposes of this bylaw, there is hereby established within the Town of Foxborough a Water Resource Protection District, consisting of aquifer recharge areas for existing, proven, and future well sites (Zone II and Zone III), future potential aquifer areas, and bodies of water, which are described herein and which may or may not be delineated on a map at a scale of 1 inch to 1,000 feet, dated February 1989, entitled Water Resource Protection District, Town of Foxborough.

This map shall be considered as superimposed over other districts established by the zoning bylaws of the Town. This map, as it may be amended from time to time, is on file with the office of the Town Clerk and with the Building Commissioner, and with any explanatory material thereon, is hereby made a part of this zoning bylaw.

where the bounds of the Water Resource Protection District, as delineated on the Water Resource Protection District map, are in doubt or in dispute, the burden of proof shall be upon the owner(s) or special permit applicant(s) of the land in question to show where they should properly be located. At the request of the owner(s) whose land has been designated as part of the Water Resource Protection District, the Town, acting by its Zoning Board of Appeals (as per Section III.D.), may engage a professional hydrogelogist or geologist to determine more accurately the location and extent of an aquifer or recharge area and may charge the owner(s) for all or part of the cost of the investigation.

As delineated on the map, the Water Resource Protection District includes:

A. Zone II: That area of an aquifer which contributes water to a well under the most severe recharge and pumping conditions that can be realistically anticipated (180 days pumping at safe yield with no recharge from precipitation).

It is bounded by the groundwater divides which result from pumping the well and by the contact of the edge of the aquifer with less permeable materials such as till and bedrock. At some locations, surface water features may represent recharge boundaries.

- B. Zone III: That land area beyond the area of Zone II from which surface water and groundwater drain into Zone II. The surface water drainage divides as determined by topography will be used to delineate Zone III. In some locations, where surface and ground water are not coincident, Zone III shall consist of both the surface drainage and the ground water drainage areas.
- C. Future Potential Aquifers: The land area outside the limits of
  Zone II and Zone III which contains stratified drift
  aquifer deposits with a saturated thickness greater than
  10 feet. These areas may, upon further test well
  exploration, prove suitable for the development of
  municipal water supply wells. Therefore, the regulations
  set forth in this bylaw pertaining to Zone II areas also
  apply to Future Potential Aquifer Areas.

In addition to the Zone II, Zone III and Future Potential Aquifer areas delineated on the Water Resource Protection District map, the following areas are not shown on the map but are included, by definition, in the Water Resource Protection District:

D. Body of Water: The shoreline of any body of water whether natural or man-made including, without limitation, any stream, river, lake or pond, each to the seasonal high water line, and a surrounding protective setback, extending two hundred fifty (250) feet from the edge of the body of water. Said body of water shall be in existence before this amendment unless said body of water is created for the sole intent and purpose for use as a source of potable water.

### SECTION V

### Use Regulations Applying to the Water Resource Protection District

### A. Prohibited Uses in Zone III:

Within Zone III the following uses are specifically prohibited:

- (a) Disposal of liquid or leachable wastes other than normal sanitary waste;
- (b) Sanitary landfills, disposal of solid wastes other than brush and stumps, and disposal of brush and stumps by burial with less than four feet of clearance above the observed maximum water table;
- (c) Junkyards or motor vehicle salvage operations;
- (d) Any package sewage treatment plants with on-site disposal of treated effluent which exceeds the water quality based effluent limitations set forth in the Massachusetts Ground Water Discharge Permit Program (314 CMR 5.00) and specifically 314 CMR 5.10(3)(a), (b) and (c);
- (e) Outside storage of road salt or other de-icing chemicals;
- (f) Disposal of snow that contains de-icing chemicals and that has been brought in from outside the Water Resource Protection District;
- (g) Commercial establishments or municipal facilities for the washing, servicing, or repair of motor vehicles, airplanes, or boats;
- (h) Commercial establishments for the plating, finishing, etching, or polishing of metals or semiconductors;
- (i) Manufacture of semiconductors or other electronic components;
- (j) Chemical or bacteriological laboratories;
- (k) Underground storage tanks for petroleum products or any toxic or hazardous substance, except for replacement or upgrading of existing storage without increasing capacity provided there is compliance with all local, state and federal laws.
- Storage and/or sale of petroleum or refined petroleum products, except within building which it will heat;
- (m) The storage of manure, not for the primary purpose of agriculture;
- (n) Animal feedlots;

(o) The use of septic system cleaners which contain toxic chemicals.

### B. Prohibited Uses in Zone II, Future Potential Aquifers and Body of Water 250 Foot Setback areas:

Within Zone II, Future Potential Aquifers, and Body of Water 250 foot setback areas, the following uses are specifically prohibited:

- (a) all uses prohibited in Zone III (see Section V.A (a) -(o) above);
- (b) Dry cleaning establishments and/or coin or commercial laundries where cleaning is performed on the premises;
- (c) Painting, wood-preserving, or stripping paint on a commercial scale;
- (d) Commercial establishments for printing, photocopying, or photographic processing;
- (e) Electronic circuit assembly on a commercial scale;
- (f) Storage of herbicides, pesticides, or fertilizers in amounts greater than 50 gallons or 250 pounds dry weight;
- (g) Any other use which involves as a principal activity the manufacture, storage, use, or disposal of toxic or hazardous material, except as allowed by special permit below.

### C. Special Permit Uses in Zone II, Future Potential Aquifers and Body of Water 250 Foot Setback areas:

Within Zone II, Future Potential Aquifers, and Body of Water 250 foot setback areas, the following uses are allowed only by Special Permit:

- (a) Golf courses, whether public or private;
- (b) Earth removal and mining of land for on-site and/or off-site use;
- (c) Any new single/two-family residential structure involving the retention of less than forty (40%) percent of the entire lot in an open and/or vegetated state and greater than twenty (20%) percent impervious surface area over the entire lot;

- (d) Any non-residential use or multi-family structure or expansion of a non-residential use or multi-family structure involving the retention of less than thirty (30%) percent of the entire lot in an open and/or vegetated state and greater than forty (40%) percent impervious surface area over the entire lot;
- (e) Any use where design sewage flow exceeds 165 gallons per day per 10,000 square feet of upland lot area, or 10,000 gallons per day total design sewage flow, as calculated from the Board of Health regulations;
- (f) Any use which involves as an accessory activity the storage, use, or disposal of toxic or hazardous materials, not including ordinary household use;
- (g) A non-conforming, non-residential or multi-family structure or use shall not be altered, reconstructed, extended or structurally changed without a special permit from the SPGA, provided that said board finds that such alteration is not substantially more detrimental to the water resources than the existing non-conforming structure or use within the defined water resource protection districts. No special permit shall be granted for any alteration, reconstruction, extension or structural change for a non-conforming structure or use without a specific finding by the SPGA that the proposed alteration, reconstruction, extension or structural change will not violate any of the provisions of this bylaw. It shall be the responsibility of the applicant proposing said alteration, reconstruction, extension or structural change to demonstrate to the SPGA that the proposed alteration, reconstruction, extension or structural change will not violate any of the provisions of this bylaw.

### D. Special Permit Uses in Zone III:

AMENDED ON TOWN MEETING FLOOR TO MOVE TO SECTION V-A.

### E. Permitted Uses:

Within Zone III, Zone III, Future Potential Aquifers, and Body of Water 250 foot setback areas, the following uses are specifically permitted, provided all other necessary permits, orders, or approvals required by local, state, or federal law have been obtained:

- (a) All ordinary and customary uses associated with expansion, maintenance and upkeep of existing single/two-family residential structures;
- (b) All ordinary and customary uses associated with the maintenance and upkeep of buildings and grounds of existing non-residential land uses and multi-family residential structures, without any increase in floor area, provided that the density regulations in Section VI are not exceeded;
- (c) New commercial development limited to retail shopping, business or professional office, or industrial development limited to storage of non-toxic, non-hazardous materials, provided that the density regulations in Section VI are not exceeded;
- (d) New residential development, provided that the density regulations in Section VI are not exceeded;
- (e) Conservation of soil, water, plants and wildlife;
- (f) Non-intensive agricultural uses: pasture, light grazing, hay, gardening, nursery, conservation, forestry, and harvesting provided that fertilizers, herbicides, pesticides, and other leachable materials are not stored outdoors or in any other manner which would permit leakage thereof;
- (g) Outdoor recreation, nature study, boating, fishing, and hunting where otherwise legally permitted; foot, bicycle and/or horse paths and bridges;
- (h) Normal operation and maintenance of existing water bodies and dams, splash boards, and other water control, supply, and conservation devices;

### SECTION VI

### Density Regulations Applying To The Water Resource Protection District:

- A. Within Zone II, Zone III, Future Aquifer Areas, and Body of Water 250 foot setback areas, any new single/two family residential lot shall not exceed twenty percent (20%) impervious surface area, or retain less than forty percent (40%) in an open and/or vegetated state, over the entire lot, without a Special Permit. Any non-residential lot or multi-family lot within these zones shall not exceed forty percent (40%) impervious surface area, or retain less than thirty percent (30%) in an open and/or vegetated state, over the entire lot, without a Special Permit.
- B. Within Zone II, Future Aquifer Areas, and Body of Water 250 foot setback areas, the design sewage flow for new development, as calculated from the Board of Health regulations, shall not exceed 165 gallons per day per 10,000 square feet of upland lot area. No additional development on an already developed non-residential or multi-family residential site shall exceed this standard without a special permit.
- C. Within Zone III, the design sewage flow for new development, as calculated from the Board of Health regulations, shall not exceed 165 gallons per day per 10,000 square feet of total lot area. No additional development on an already developed non-residential or multi-family residential site shall exceed this standard without a special permit.
- D. Within Zone II, Future Aquifer Areas, and Body of Water 250 foot setback areas, any single/two-family residential lot shall contain a minimum of 60,000 square feet of which a minimum of 30,000 square feet shall be upland area.
- E. Within Zone III any single/two-family residential lot shall contain a minimum of 40,000 square feet.
- F. No division of a parcel of land shall create a parcel which violates the minimum lot size and upland area requirements of Section VI.D. and E. above, unless all proposed development and sewage disposal is located on the portion of the subdivided lot which lies outside of any Water Resource Protection District.

### SECTION VII

### Special Permit Requirements Within the Water Resource Protection District:

A. Special Permit Granting Authority (SPGA): The Planning Board as SPGA will have the authority to grant Special Permits as herein defined and subject to the provisions of these bylaws. A special permit shall be granted if the SPGA determines, in conjunction with other town agencies as specified in Section VII.C. that the intent of this section as well as its specific criteria are met. In making such determination, the SPGA shall give consideration to the simplicity, reliability and feasibility of the control measures proposed and the degree of threat to water quality which would result if the control measures failed. In particular, for all new development, and expansion of existing non-residential and multi-family residential development within the District, groundwater quality shall not be allowed to violate State and Federal drinking water standards at the downgradient property boundary.

The special permit shall include an explanation by the SPGA of any departures from the recommendations of the other Town agencies.

- B. Materials to be Submitted by Applicants: The following materials shall be submitted to the SPGA (six copies) and the Town Clerk (one copy) at the expense of the applicant.
  - 1. A site plan showing existing and proposed structures and the location of all facilities relevant to the other requirements specified in Paragraphs 2, 3, and 4 below.
  - A complete list of all chemicals, pesticides, fuels, and other potentially toxic or hazardous materials to be used, generated, stored, or disposed of on the premises.
  - 3. A description of proposed measures to protect all storage containers or facilities associated with such materials from vandalism, accidental damage, corrosion, and leakage. Such measures might include secure storage areas, shelters for corrodible or water-soluble materials, spill control provisions around transfer points, and a schedule of future monitoring of waste streams or groundwater on the site to ensure that proper control has been maintained.
  - 4. A description of proposed methods by which runoff from impervious areas will be recharged into the ground within the premises, preferably by diversion into vegetated areas where surface infiltration will occur. Discharge of all runoff shall be proceeded by flow through oil and grease traps. Dry wells shall be used only where surface infiltration is not feasible. Dry wells shall be equipped with oil and grease traps, and sediment traps constructed, operated and maintained in a manner acceptable to the SPGA.

- 5. An erosion and sedimentation control plan.
- 6. Projections of concentrations of nitrogen and other relevant solutes in the groundwater at the downgradient boundary of the property and at any other locations deemed pertinent by the SPGA, including downgradient drinking-water wells identified by construction of flow lines from the proposed site.

Such projections shall be based upon appropriate ground water models and the following information or standards:

- Wastewater per person: 7 pounds of nitrogen per year. Persons per dwelling unit: 4.
- Lawn fertilizers: 2 pounds of nitrogen per 1,000 square feet of lawn per year.
- Road runoff: 0.19 pounds of nitrogen per day per lane mile.
- Background nitrogen concentration: actual on-site measurements.
- Hydraulic conductivity: Use on-site data.
- Saturated thickness: Use data from site-specific borings.
- Groundwater gradient: Use data from site-specific measurements.

These projections may not be required, as determined by the SPGA, for projects which involve no on-site discharge other than sanitary waste, and comply with the density regulations of this bylaw.

C. Review Procedures and Public Hearing: The SPGA shall refer copies of the permit application to the Board of Health, Conservation Commission, Town Engineer/Highway Superintendent, Board of Selectmen, and the Board of Water and Sewer Commissioners, and shall hold a public hearing as per the provisions set forth in Section VIII.J. of these bylaws.

### D. The SPGA's Decision:

- (a) After the public hearing, the SPGA shall coordinate, clarify and weigh the comments and recommendations of the various Town agencies; consider the simplicity, reliability, and feasibility of the proposed control measures, and consider the degree of threat to water quality which would result if the control measures failed. It shall then issue a written decision. It may grant a special permit if it finds that the proposed use:
  - meets the intent of this section as well as its specific criteria;

- will not, during construction or thereafter, have an adverse impact on any aquifer or recharge area in the District;
- will not adversely affect an existing or potential domestic or municipal water supply; and is consistent with existing and probable future development of surrounding areas, and;
- groundwater quality at the downgradient boundary of the property shall not be allowed to violate State or Federal drinking water standards.
- (b) In addition to the findings described in (a), above, the decision shall include an explanation of any departure from the recommendations of any other Town agencies.
- (c) For projects which require approval by state agencies and/or the Foxborough Board of Health, the special permit shall include a condition that no building permits shall be issued until evidence has been received by the SPGA that such required approvals have been received.

### SECTION VIII

### Design And Operations Guidelines:

The following design and operation guidelines shall be observed for sites within any portion of the defined Water Resource Protection Districts:

- A. Safeguards: Provision shall be made to protect against toxic or hazardous materials discharge or loss resulting from corrosion, accidental damage, spillage or vandalism through measures such as: prohibition of underground fuel storage tanks; spill control provisions in the vicinity of chemical or fuel delivery points; secured storage areas for toxic or hazardous materials; and indoor storage provisions for corrodible or dissolvable materials. For operations which allow the evaporation of toxic or hazardous materials into the interiors of any structures, a closed vapor recovery system shall be provided for each such structure to prevent discharge of contaminated condensate into the groundwater.
- B. Location: Where the premises are partially outside of the Water Resource Protection District, potential pollution sources such as on-site waste disposal systems shall be located outside the District to the extent feasible.
- C. <u>Disposal:</u> For any toxic or hazardous wastes to be produced in quantities greater than those associated with normal household use, the applicant must demonstrate the availability and feasibility of disposal methods which are in conformance with all state and federal laws.

Drainage: Site design shall result in no increase in the peak rate of storm water runoff in a ten (10) year storm and one hundred (100) year storm. Site design shall result in no increase in the total volume of storm water runoff in a one-year storm event. Impervious materials shall not cover more than twenty percent (20%) of the total area of a single/two-family residential lot and forty percent (40%) of the total area of a non-residential or multi-family lot unless authorized by a Special Permit. Not less than forty percent (40%) of the total area of a single/two-family residential lot and thirty percent (30%) of the total area of a non-residential or multi-family lot shall be maintained in an open and/or vegetated state unless authorized by a Special Permit.

The area left in its open and/or vegetated state shall be located so as to increase distances between impervious surfaces or on-site disposal systems and any surface water body or municipal well. All runoff from impervious surfaces shall be recharged on the site and diverted towards areas covered with vegetation for surface infiltration to the maximum extent possible. Dry wells shall be used only where other methods are not feasible, and shall be equipped with oil, grease, and sediment traps constructed, operated, and maintained in a manner acceptable to the SPGA.

- E. Monitoring: Periodic monitoring may be required by the SPGA, based upon the proposed use of the site, including sampling of wastewater disposed to on-site systems or dry wells and sampling from groundwater monitoring wells to be located and constructed as specified in the Special Permit with a report and 5 copies to be submitted to the SPGA who will distribute them to the Town Clerk, Fire Chief, Board of Health, Board of Water and Sewer Commissioners, and the Conservation Commission. The costs of monitoring, including sampling and analysis, shall be borne by the owner or applicant.
- F. Erosion and Sedimentation Control: All clearing and earthmoving operations shall occur only while erosion and sedimentation control measures, approved by the SPGA, and/or the Conservation Commission when within its jurisdiction, are in place. Such control measures shall remain in place until the SPGA and/or the Conservation Commission when within its jurisdiction, determines that the danger of erosion or sedimentation no longer exist. Hay bales shall be used as a sole measure where only it has been determined that the danger of soil erosion or sedimentation is minimal.

### SECTION IX

### Definitions:

### Aquifer:

A formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

### Area of Influence:

The area which experiences drawdown by a pumping well as plotted on a two-dimensional map surface; usually ellipsoidal in shape.

### Body of Water:

A body of water shall be any open body of water, capable of supporting on indigenors fish population, either naturally occurring or man-made by impoundment, with a surface area observed or recorded within the last ten (10) years and which is never without standing water due to natural causes, except during periods of extended drought. For purposes of this definition, extended drought shall mean any period of four or more months during which the average rainfall for each is fifty (50%) percent or less of the ten year average for that same month. Basins or lagoons which are part of wastewater treatment plants shall not be considered bodies of water, nor shall swimming pools or other impervious man-made retention basins.

### Come of Depression:

A three dimensional conical concavity produced in a water table by a pumping well.

### Discharge:

The accidental spilling, leaking, pumping, pouring, emitting, emptying, or dumping of toxic or hazardous materials upon or into any land or waters in the Town of Foxborough. Discharge includes, without limitations, leakage of such materials from failed or discarded containers or storage systems, and disposal of such materials into any on-site sewage disposal system, drywell, catch basin, or unapproved landfill.

### Ground Water:

All the water found beneath the surface of the ground. In this bylaw, the term refers to the slowly moving subsurface water present in aquifers and recharge areas.

### Impervious Surface:

Material placed by man that does not allow surface water to penetrate into the soil.

### Leachable Waste:

Waste materials including solid waster, sludge, and agricultural wastes that are capable of releacing water-borne contaminants to surrounding environment.

### Mining of Land:

The removal of geologic materials such as topsoil, sand, gravel, or bedrock.

### Recharge Areas:

Areas that collect precipitation or surface water and transmit it into the cone of depression of existing or potential water supply wells. Primary recharge areas are mapped unconsolidated aquifer areas surrounding existing or potential water supply well sites. Secondary recharge area are till and bedrock areas adjacent to the primary areas which contribute streamflow to streams or undefined water courses or groundwater flowing through or onto the primary recharge areas.

### Sanitary Waste:

Wastewaters arising from ordinary domestic water use as from toilets, sinks, bathing facilities, etc., and containing such concentrations and types of pollutants as to be considered normal wastes.

### Solid Waste:

Useless, unwanted, or discarded solid material with insufficient liquid content to be free-flowing. This includes, but is not limited to, rubbish, garbage, scrap materials, junk, refuse, inert fill material, and landscape refuse.

### Hazardous Waste:

A waste, or combination of wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness or pose a substantial present or potential hazard to human health, safety, or welfare or to the environment when improperly treated, stored, transported, used or disposed of, or otherwise managed, however not to include solid or dissolved material in domestic sewage, or solid or dissolved materials in irrigation return flows.

### Upland Area:

That area exclusive of wetlands and floodplains as defined within the Wetlands Protection Act Regulations (M.G.L. Chapter 131, section 40 as amended)

### APPENDIX C

S-1 ZONING DISTRICT SOIL POTENTIAL RATINGS

### APPENDIX C

### EVALUATION OF SOILS FOR URBAN GROWTH UTILIZING ON-SITE SEWAGE DISPOSAL SYSTEMS

Factors used to assign ratings for each soil are slope, wetlands, water table, permeability, and depth to bedrock. Soil potential ratings are intended to be a guide for planning future wise land use decisions.

These ratings indicate the relative quality of a soil to prevent surface and subsurface pollution of wetlands and ground water.

The following table provides an assessment of each soil type on the site for proper functioning of individual on-site sewage disposal systems. In addition, a separate section describes the various leaching facilities based on soil and site characteristics.

### SOIL POTENTIAL RATING CLASSES

### o Very High Potential

Performance is at or above "standard" becasue soil conditions are exceptionally favorable. Installation costs are low and there are no continuing limitations.

### o <u>High Potential</u>

Performance is at or above the "standard." Costs of measures for overcoming limitations are judged locally to be favorable in relation to the expected performance. Continuing limitations do not detract appreciably from environmental quality.

### o Medium Potential

Performance is somewhat below "standard." Costs of corrective measures are high. Continuing limitations detract from environmental quality.

### o Low Potential

Performance is significantly below "standard." Corrective measures are costly. Continuing limitations detract appreciably from environmental quality.

### o <u>Very Low Potential</u>

Performance is much below "standard." Corrective measures are very costly. Continuing limitations seriously detract from environmental quality.

### Footnotes to Soil Potential Rating Table:

- (1) These soils have percolation rates in excess of 30 minutes/inch. Under Title V (State Sanitary Code) these areas are unacceptable for subsurface disposal of sanitary sewage. This does not necessarily man that these areas are "unbuildable." With extensive on-site investigation suitable locations can often be located on inclusions of other soils within the soil map unit.
- (2) These complexes contain areas of soil that are less than 6 feet deep to bedrock. Title V (State Sanitary Code) requires that there be 4 feet of "naturally occurring pervious soil" below the entire leaching facility. Topsoil and subsoil, which is typically 2 feet in depth is not considered to be pervious. This does not mean that these areas are "unbuildable." Most of these complexes contain other soils that are deeper than 6 feet to bedrock (Charlton and Canton soils) and have characteristics that make them quite suitable for sanitary sewage disposal.
- (3) Steep slopes of 25 to 35 percent make installation of sewage disposal systems economically impractical.

C-2

- (4) These soils are usually considered wetlands. Under Title V Regulations Section 15:03, paragraph 7, "Table of Distance Requirements" installation of leaching facilities is restricted within 50 feet (horizontally) of a wetland boundary. In addition, 1982 Wetland Regulations restrict construction operations to within 25 feet of said wetlands. Installing sewage systems in wetland soils is prohibited.
- (5) Soils which occur on floodplains may be sujbect to Title V Regulations Section 15:03, paragraph 7, footnote 2. The presumption is that no leaching facility can be located within 50 feet of the 100 year flood elevation. This factor is also addressed in the 1982 Wetlands Regulatons Section 10:57.

## SOIL POTENTIAL RATINGS FOR ON-SITE SEWAGE DISPOSAL SYSTEMS

Map Symbol	Soil Name	Soil Potential <u>Index</u>	Restrictive Soil Features	Recommended Types of On–Site <u>Sewage Systems</u>
113B	Canton fine sandy loam, 3%-8% slopes.	High	None.	Smaller than standard field.
114B	Canton very stony fine loam, 3%-8% slopes.	Medium	Stones.	Additional site preparation.
114C	Canton very stony fine loam, 8%-15% slopes.	Medium	Slope; stones.	Additional site preparation.
114D	Canton very stony fine loam, 15%-25% slopes.	Low	Slope; stones (3).	Additional site preparation.
115D	Canton extremely stony fine sandy loam, 15%-25% slopes.	Low	Slope; stones (3).	Additional site preparation.
66	Freetown muck, ponded.	Very Low	Water table at surface; ponding (4).	No typical corrective measures.
46	Freetown muck.	Very Low	Water table at surface.	No typical corrective measures.
35A	Hinckley loamy sand, 0%-3% slopes.	Very High	None.	Smaller than standard field.
35B	Hinckley loamy sand, 3%-8% slopes.	Very High	None.	Smaller than standard field.
35C, 136C	Hinckley loamy sand, 8%-15% slopes.	Medium	Slope.	Smaller than standard field, grading and/or fill.
35D, 136D	Hinckley loamy sand, 15%–25% slopes.	Low	Slope (3).	Smaller than standard field, grading and/or fill.

## SOIL POTENTIAL RATINGS FOR ON-SITE SEWAGE DISPOSAL SYSTEMS (Continued)

Map Symbol	Soil Name	Soil Potential <u>Index</u>	Restrictive Soil Features	Recommended Types of On–Site <u>Sewage Systems</u>
35E	Hinckley gravelly fine sandy laom, 25%-35% slopes.	Very Low	Very steep slope (3).	Additional site preparation, grading and fill.
37B	Merrimac fine sandy loam, 3%-8% slopes.	Very High	None.	Smaller than standard field.
122B	Paxton fine sandy loam, 3%–8% slopes.	Very Low	Percs slowly.	No typical corrective measure (1).
123B	Paxton very stony fine sandy loam, 3%-8% slopes.	Very Low	Percs slowly; stones.	No typical corrective measure.
123C	Paxton very stony fine sandy loam, 8%-15% slopes.	Very Low	Percs slowly; slope; stones.	No typical corrective measure.
32A	Ridgebury very stoney fine sandy loam, 0%-3% slopes.	Very Low	Percs slowly; high water table; stones(1).	No typical corrective measure.
7D	Rock outcrop – Charlton–Hollis complex, 15%–35% slopes.	Low	Bedrock; slopes (2,3).	Intensive on-site investigation with grading and/or fill, and additional site preparation.
8C	Rock outcrop - Hollis complex.	Very Low	Bedrock (2).	No typical corrective measure.
40A	Scarboro muck.	Very Low	Water table at surface(4).	No typical corrective measure.
38A	Sudbury fine sandy loam, 0%-3% slopes.	Low	High water table.	Fill.
45	Swansea muck.	Very Low	Water table at surface(4).	No typical corrective measure.
39A	Walpole fine sandy loam, 0%-3% slopes.	Very Low	High water table (4).	Fill.

## SOIL POTENTIAL RATINGS FOR ON-SITE SEWAGE DISPOSAL SYSTEMS (Continued)

Recommended Types of On–Site <u>Sewage Systems</u>	Fill.	No typical corrective measure.	No typical corrective measure.	No typical correcive measure.	No typical corrective measure.
Restrictive Soil Features	High water table (4).	Water table at surface; ponding (1,4)	Percs slowly; high water table (1,4).	Percs slowly; high water table (1).	Percs slowly; high water table (1).
Soil Potential <u>Index</u>	Very Low	Very Low	Very Low	Very Low	Very Low
Soil Name	Walpole fine sandy loam, 3%-8% slopes.	Whitman fine sandy loam.	Whitman extremely stoney fine sandy loam.	Woodbridge fine sandy loam, 3%-8% slopes.	Woodbridge very stony fine sady loam, 3%-8% slopes.
Map Symbol	39B	33A	34A	81B	82B

Land areas mapped as #5 were not noted because these areas have been disturbed to the extent that the natural areas of soil are no longer a major factor in determining limitations or capability of the land.

Land areas mapped as #260 consist of commercial development areas and were not noted.

### APPENDIX D

NEWSPAPER ARTICLES

## Foxboro curtails growth Development restricted in Route 1, well zones

FOXBORO — Voters at Thursday night's special town meeting overwhelmingly adopted two articles aimed at controlling development along Route 1 and protecting the town's water remainders.

Although there was no discussion on the floor regarding the revised Route 1 zoning bylaw, voters spent more than two hours debating the revised Water Resource Protec-

tion District zoning bylaw, which was eventu- Zone ally adopted with an amendment that further sites.

tightened restrictions. Additional uses prohibited

After several residents took the floor speaking for and against the bylaw, William Jobin stood up and urged those in attendance to accept the bylaw with an amendment that would prohibit additional uses in the so-called

Zone III area, which is the land nearest well

The amended article was adopted on a 225-3

The Route 1 zoning bylaw was approved by a unanimous vote after only a brief presentation by Growth Policy Committee Co-Chairman Don Schmidt.

etails, Page 7

## Zoning bylaw for Route 1 passes with little debate

By JULIET PENNINGTON Sun Chronicle Staff Writer FOXBORO – The Water Resource Protection Zoning bylaw was the only one of the articles on the seven-article special town meeting warrant that stirred any controversy Thursday night, with the others being voted on with little – if any –

Article seven, which asked voters to act on the proposed Route 1 zoning bylaw, was approved by a unanimous vote after only a brief presentation by Growth Policy Committee Co-Chairman Don Schmidt and no discussion on the floor at the high school auditorium.

The new bylaw is aimed at controlling development along Route 1 and is intended to "promote higher quality growth and higher quality development of the land-scape," according to Planning Administrator Timothy Higgins, to whom Selectman Michael Coppola referred as "the unsung hero" in coordinating the various town

The bylaw promotes planned developments – such as office parks – and other uses that will generate a high tax revenue and have a limited effect on town services, said Higgins. Uses that will not be permitted on the approximately 1,000 acres on Route 1 located in the S-1 district include auto auctions, truck terminals, railroad storage yards, and mini-storage facilities.

"We wanted to make sure that we didn't end up with a strip development" such as the heavy retail area along Route 1 in Dedham said Hisgins.

Dedham, said Higgins.
Coppola said the support residents showed for this bylaw "proved that the whole process was not dothe in a vacuum, and that people did have confidence in the process and the growth policy committee."

Higgins said that while he was "surprised by the total lack of discussion" on the Route 1 bylaw revision, he was "very pleased" with the end result.

"All of the hard work raid off." he said.

"All of the hard work paid off," he said.
"Literally hundreds of hours went into this

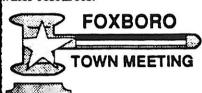
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### Route 1, water Foxboro topics

### Special town meeting unfolds tonight at 7:30

By JULIET PENNINGTON Sun Chronicle Staff Writer

FOXBORO - The two articles that will be receiving the most attention at tonight's special town meeting are articles six and seven, both of which are bylaw revisions aimed at controlling development along Route 1 and protecting the town's water resources.



The seven-article town meeting will be held at the high school auditorium tonight at 7:30 p.m. and

is not expected to last more than a couple of hours. A quorum of 100 people is required.

The two zoning bylaw revisions will require a wo-thirds vote to be adopted.

"I hope people come out and vote for this," said

Planning Administrator Tim Higgins.

"Both articles are critical to the future of Foxboro from an economic standpoint, and a water

quality standpoint."

Article six asks residents to vote for the revised Water Resource Protection District zoning bylaw that will help protect the town's water supply by restricting uses in the Zone II areas, which could ned directly into the wells. The bylaw also affects e Zone III areas, which feed into the Zone II areas and contamination of which could ultimately end up the town wells.

As an example of how the Zone II district would protected, Higgins explained that under the goposed bylaw, in the single-family (R-40) district, ere must be at least a 60,000-square-foot lot with \$,000 square feet of it being a dry area, or uplands.

Currently, the lots must be at least 60,000 square et, but there is no requirement on how much of hat land must be dry. The proposed zoning changes ere developed following a nine-month study by A Consultants of Cambridge.

Article seven asks voters to approve the proposed bute 1 zoning bylaw that is intended to "promote ther quality growth and a higher quality develop-

ent of the landscape," said Higgins.

he new bylaw, he said, would promote planned velopments - such as office parks - where there uld be more than one structure on a lot and the eloper would have to lay it out in such a way that would be not only functional, but attractive as il. "The types of uses we're looking at should nerate higher tax revenue and better quality jobs because we're looking at a more upscale kind of wowth that will also have limited impact on town prvices," said Higgins.

(See Foxboro, Page 10)

Sun Croncle 5/11/89

### Foxboro to debate articles

(Continued from Page 9)

He said that under the proposed bylaw, uses that would not the permitted along the approximately 1,000 acres on Route 1 Secreted in the S4 district would include auto auctions, truck terminals, railroad storage yards, and mini-storage facilities.

Hospins said the proposed bylaw was also intended to prohibit "strip development" such as the heavy retail area along

Route 1 in Dedham.

The town has spent \$120,800 for the Route 1 and Zone II studies. The Route 1 study was conducted by HMM Associates of Concord. Selectmen Chairman Jeffrey Peterson said he hopes there is a large turning for the meeting, mainly because of the importance of the last two articles.

Planning Board Chairwoman Cheryl Darlington said she anticipates some debate - most likely from developers opposed to the restrictions - on the floor when these two articles are

voted on.

The local Industrial Development Commission has spoken out against the two articles, saying that both articles should be tabled. "It's a railroading" of town voters, claimed member Joe Welsh, who referred to the water-protection bylaw as "too restrictive" in a letter to selectmen.

Darlington said that developers have been "racing against the clock" to file preliminary and definitive plans before the new, more restrictive bylaws would take effect if passed tonight.

Any plans submitted before tonight's meeting would be Figranted grandfather status and would fall under the current

Route 1 or water protection bylaws, said Darlington.

Of particular concern to some town officials are preliminary they, but protection of making the proposed bytes.

Other articles on the special town meeting warrant include: An amendment to the handicapped parting bylaw that would increase fines from \$15 to \$35 for the first offence, \$50 to

the second offence and \$75 for the third offence.

e An article anking residents to vote in favor of establishin a fund for a part-time social worker's position at Foxboss Human Services. The cost would be \$14,000.

### Foxboro voters to decide

By JULIET PENNINGTON Sun Chronicle Staff Writer

FOXBORO — Increasing the town's tax revenue base and protecting its water supply are perhaps two of the most important issues that will be facing Foxboro in coming years.

Residents concerned about those issues will have a chance to make a difference by voting at the May 11 special town meeting, when voters will be asked to adopt the newly revised Route 1 development bylaw and the Zone II water protection bylaw.

"These are both critical to the future of this town," said Planning Administrator Timothy Higgins. "We want growth, but controlled growth that

will not adversely affect the town."

A two-thirds vote is needed to pass the two major bylaw changes, which have been spearheaded by the growth-policy committee, whose members have accepted the proposed changes along with the planning board.

There have already been \$120,000 worth of long-

These are both critical to the future of this town. We want growth, but controlled growth that will not adversely affect the town.

- Planner Timothy Higgins.

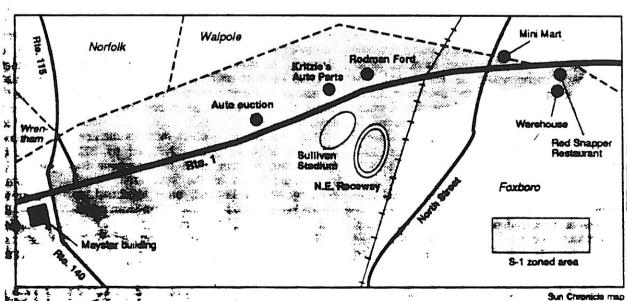
range studies done on these two issues by outside consulting firms hired to make their recommendations on what would be best for the town.

"A lot of time and energy has been spent on this," said Higgins, "and we're happy with the new bylaws as they stand."

The proposed Route 1 zoning bylaw is intended to "promote higher quality growth and a higher quality development of the landscape," said Higgins.

(See Foxboro, Page 8)

### Route 1's future May 11



Proposed Route 1 zoning bylaw changes will be voted on May 11.

# Foxboro to decide Route 1 future May 11

Continued from Page 7)

Additional goals include:

 improving the access and traffic flow on Route 1 by minimizing the number of access points, or curb cuts, along Route 1;

• increasing town discretion and input into land uses by restricting certain uses and promoting the use of special permits, which are discretionary permits issued by the planning board;

 improving aesthetics and landscaping by attracting a "higher quality" type of development along the Route 1 corridor.

Higgins said the new bylaw would promote planned developments — such as office parks — where there would be more than one structure on a lot and the developer would have to lay it out in such a way that it would be not only functional, but attractive as well.

"The types of uses we're looking at should generate higher tax revenue and better quality jobs ... because we're looking at a more upscale kind of growth that will also have limited impacts on town services," said Hig-

He said that under the proposed bylaw, uses that would not be permitted along the approximately 1,669 acres on Route 1 locafed

in the S-1 district would include auto auctions, truck terminals, railroad storage yards, and mini-storage facilities.

Higgins said the proposed bylaw was also intended to prohibit "strip development," such as the heavy retail area along Route 1 in Dedham.

The new zoning techniques and proposed amendments to the existing bylaws should be taken seriously by town voters, warned Higgins.

"Town officials agree that the largest potential expansion of our tax base in the community will come from development along Route 1," he said. "This should be of concern to every Foxboro resident."

Also of concern is the town's water supply, which if not protected could contaminate the town wells.

The Zone II study, which includes the Zone III area in town, was conducted by SEA Consultants, a firm hired to determine the geographic limits of the land areas which recharge the wells and, once identified, to create regulations to protect them from potential contaminating land uses.

This study, known as the revised Water Resumee Protection District zoning bylaw,

will help protect the town's water supply by restricting uses in the Zone II areas, which could feed directly into the wells, and the Zone III areas, which feed into the Zone II areas and contamination of which could also ultimately end up in the town wells.

As an example of how the Zone II district would be protected, Higgins explained that under the proposed bylaw, in the B-49 (single family) district, there must be at least a 60,000 square foot lot with 30,000 square foot of it being a dry area, or uplands.

Currently, the lots must be at least 60,000 square feet, but there is no requirement on how much of that land must be dry.

"This is just one of the protective measures included in the bylaw," said Higgins, who claimed that the water protection bylaw was critical to the future water supply of Foxboro.

Recommendations available next week
"You can't have growth without water," he said.

Reommendations by the planning board and growth policy committee and manmaries of the Route 1 and Zene II bylaws will be available early next week at town hall for residents who wish to review them prior to the Mar 11 magest leave anothing.



FOXBORO, HA 5,100



**HAR 23 1989** NEW ENGLAND NEWSCLIP AGENCY, INC.

### Hearing tonight on rules for Route 1 development

Proposed regulations that would tighten building requirements but open up other options for commercial developments along Route 1 will be aired at a public hearing tonight.

HMM Associates of Concord has nearly completed its recommendations for changes in the zoning bylaw, as they affect the Route 1 commercial "S-1" district.

The hearing will begin at 8:30 in the Town Hall meeting room.

Approval or disapproval of the regulations will be up to voters at a Special Town Meeting to be held within the May 8 Annual Town Meeting.

Proposed regulations in the S-tdistrict include a larger lot size, buffer zones and use requirements. But builders who seek more flexibility can, in certain cases, opt for a "planned development" approach.

HMM representatives met with members of the Growth Policy Committee last week to go over the recommendations and consider lastminute changes.

The Committee reduced a recommeaded seven-acre minimum lot size for builders seeking the "planned development" option to five acres.

Because of this change, more parcels would qualify for negotiation under that process.

Approval of that layout would come under the authority of the Planning Board, and would be similar to the subdivison approval process.

Developers who did not opt for a planned development layout would have their proposal subject to site plan approval, which takes less time

The current ceiling of 25 percent retail store area in any proposed development was left in the proposed bylaw, despite comments that the low percentage could discourage some developers.

The limit on retail space is intended to reduce traffic.

According to the new planned development option, however, builders could ask for approval to make as much as 50 percent of their proposed site retail.

Another section would prohibit parking lots along the front of buildings which face Route 1.

### increase in Consultai

Hearing to be held April 23 before Town Meeting vote

under zoning bylaw recommenda-tions released last week by HMM Minimum lot sizes along Route 1 would be increased by one-third **By Pamela Braman** 

dations concerning frontage and lot coverage would result in more open This and several other recommenspace on building sites. Associates of Concord.

April 23. Voters will consider the proposed zoning bylaw change at a special Town Meeting within the A public hearing on the recommendations has been scheduled for May 8 Annual Town Meeting.

scheduled to be discussed this week The recommendations are also

by the Growth Policy Committee. Though much of HMMIs report includes recommendations already

mittee, there are a few new specifics in the final outline.

proposed recommendations "better address the town's objectives for land development along the Route 1 corridor,"

In response to concerns voiced by: the members of the Committee, the recommendations include prohibitautomobile storage businesses and ing the use of rail storage yards, automobile auctions in the S-1 (Route 1) district.

uses and industrial uses, which are now permitted in the S-1 district, · Also, so-called medium hazard would become subject to Special Permit requirements.

HMM, in conjunction with Edith, made to change density require-Netter Associates, says that the ments in developments which are Netter recommendations "better proposed. These recommendations outlined in February to that Com- In order to "to assure better planning and site layout in the district,". recommendations were include:

. Increasing minimum frontage . Increasing minimum lot size along Route 1 from 200 feet to 300 from 60,000 to 80,000 square feet.

 Increasing minimum front yard and side yard requirements. get.

maximum for building coverage, to a maximum of 70 percent for total coverage, including building and Increasing maximum lot coverage from the 40 percent present paved areas. ŕ

 Requiring parking lots in the S-1 District to be located only at the side or rear of buildings.

• Requiring a non-waivable land-scaped buffer strip of 50 feet in the ed adding three new conditions to the Site Plan Review checklist in front, and 25 feet in a side yard, for The recommendations also includall proposed uses

protection of natural, historic and scenic areas, the development's These new items deal with the possible impact on the town's water, sewer and roads, and the fiscal the S-1 District.

PATRIOT LEDGER

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NEW ENGLAND NEWSCLIP AGENCY, MC

# Goal: attractive development of Rte.

The Patriot Ledger By Shanta Swezy

FOXBORO — Officials say they have a plan to beep Route 1 in Foxboro from looking the way it does in Norwood and Dedham.

meeting to approve a bylaw that would restrict food restaurants, car dealerships and blocks of They will ask the May 11 special town what is known as "strip development" - faststores built near the edge of the road.

Timothy Higgins said yesterday. "Not only is it unsightly, but it's quite dangerous, with curb and paving from the curbing of the street right ment after the next," Planning Administrator cuts (driveways) every 50 to 100 feet, very little landscaping, buildings right on top of the road to the front door of the buildings. We want to get away from pavement to pavement. It's not "We don't want it to be one strip develop-

Framingham are prime examples of what town officials do not want Foxboro to look like, planning board Vice Chairman and growth Route 1 in Saugus and Route 9 in Natick and

The growth policy committee and the plunning board unanimously approved the proposal a couple of weeks ago. To be adopted, it needs a two-thirds vote of town meeting. policy committee Co-chairman Michael Cop-

The proposed bylaw encourages a mix of offices, industry and retail businesses.

It would:

 Limit the number of driveways connecting each development with Route 1.

> reminds me of a line of soldiers or a picket fence with the same thing mile after mile. It's

"The main horror of Route 9 is the traffic plus the constant visual sight of the same thing for after lot, row after row," Coppola said. "It

pola said yesterday.

· Require larger buffer zones, which would prevent developments from being built close to the highway and provide open space between developments. · Offer incentives to developers to push growth onto parcels of five acres or more.

 Require special permits for certains types of development, including hospitals, private schools, country clubs and recreation facilities. This would give the town additional control over what is built.

Having one or two strip developments is acceptable, but having continuous lines of

them is not, he said.

The proposed bylaw was developed following a six-month study by HMM Associates of Concord. The \$20,000 study was paid for by the

of Route 1 and North Street as an example of

an existing strip development in Forboro.

poulos' Hercules Shopping Plaza at the corner

Coppola cited developer Demetrios Panago-

not visually appealing."

"It's nothing more than a strip of shops

facing the street," Coppola said.

bylaw, 25 percent of a building's floor area can Allow 50 percent of a planned development to be for retail use. Under the current

"Our goal is not to limit growth but to promote good growth," Higgins said.

age yards, mini self-storage warehouses and The bylaw would prohibit automobile storage businesses, automobile auctions, rail stormost other warehouses, and truck terminals.

"If the bylaw is not enacted, we would see those things occur which don't generate a high amount of taxes, don't create large numbers of obs but do create a large increase in traffic, Higgins said.

yielding, tax-producing developments," Cop-"What we would like to have is high-

pola said. "What we don't want is a little shack with three acres of paving." considered undeveloped land, 25 to 30 percent If the Sullivan Stadium parking lots are

reached Foxboro because of the town's distance He said intensive development has been developed, Higgins estimates.

of the property along Route 1 in Foxboro has

However, it is only "a matter of time before t (development) comes out here," he said. from Boston and Providence.

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NEW ENGLAND NEWSCLIP AGENCY, MC

## re stores allowed under Route 1 plan ... Ilpoitei, illuisudy, Apill 0, 1303

In Policy Committee's tions for the Route 1 development district, a provision to double the review last week of recommenda current retail space allowed in »1ready approved sites was accepted

That suggestion, along with some other modifications to recommendalions made by HMM Associates, was approved by separate unanimous votes of the 10 members

In the past, members of the Com-

mittee had stated concerns that the town's present maximum of 28 percent retail space in any development might be discouraging some businesses from locating along Route 1.

Some members felt that large office groups prefer to locate in an area where retail stores are nearby, for the convenience of their employ.

percentage of retail space on a site On the negative side, a greater

to this maximum height.

Other developments coming under site plan approval can be no higher than 40 feet

tion that would have prohibited parking lots from being placed in Also changed was a recommendafront of buildings, unless that building was sited parallel along the length of the highway.

lowed to place buildings facing as long as a 75-foot buffer zone between the parking lot and the highway is maintained. Route 1, and with parking in front Instead, developers will be al

Wednesday to support the revision of the Wetlands Protection District tylaw agreed upon by the Water The Growth Policy Committee Commissioners and the Planning agreed unanimously Board. 00 0

trodute of the water com

more security problems, in an area.
The change in retail percentage will affect any site along Route 1 non-residential development prior to the public hearing held on the Route retail uses, by opting for Planned Development approval.

The Growth Pelicy Committee's which was already approved for In the future, developers of nore can apply for an exception to the town's 25 percent maximum for vote also included modifying two other recommendations made by projects involving five acres recommendations on March 23.

concerning the 8-1 socians Z

lowable height of a building in a Planned Development achetme from One recommendation made in-70 feet to 60 feet, or about four cluded changing the maximum alstories.

Only buildings in developments of Planned Development approval by ive acres or more which opted for -----

### Panel near decision on growth advice

By JULIET PENNINGTON Son Chronicle Staff Writer

FOXBORO — After several months of discussions with a consulting agency, growth policy committee members believe they are close to making their recommendation on what type of Route 1 development would be best for the town.

While no final decision has been made, committee members indicated that they would like to see Route 1 developed with office parks and a minimum amount of retail.

One of the main objectives, said committee Co-chairman Michael Coppola, is that any development along Route 1 be aesthetically pleasing and that it conform to the "small-town" atmosphere Toxboro wants to maintain.

Any development should also provide a strong tax base for the town, he said.

HMM Associates, the firm hired by the town to study Route 1 and make recommendations to the committee on development options for the largely undeveloped S1-zoned area, told committee members Wednesday night that they would like to see a modification of existing bylaws whereby developers would have to go through a site plan review with the planning board before selectmen issue a building permit.

"We seem to be heading in the direction of planned development, where the developer has flexibility but the town can use discretion," said Coppola.

Committee members hope to have a zoning bylaw recommendation ready by the beginning of March so public hearings can be held on their decision and an article can then be placed on the town warrant for May town meeting.

## commendation made for Route 1 development plans

Two meaning the good planning in the identification of the second of the second in the second of the second of the party pages in the State of the party pages in the State of retail stone which can locate in any year development.

Current goning ellows for developments on lets of 0,000 square feet and chove, a let the which has the potential to lead in position "strip" development to be the control of the control

The term cap wife bequirement allowing costs the parcent of any proposed commencial development in the 8-1 district to consider of retail stores. This requirement serves to The team and

promote the pulling of office space, or remarks or discourse to the Round I give.

The present refull space requirements discourage large retail chains from building in the area. It is these large chains, however, which impact most on a commeruse of public utilities and public cial area, through traffic concerns safety pauer.

ith Netter, who is ameriated with environmental planner. HMM Associates, Inc., of Concord, the town's current after plan paying payles process is According to legal consultant Eda site plan. "approval" when the developer is presumed to have the right to build current site plan

problems present

on that process to prevent the appli-cant from feeling he is entitled to Acording to HMM project managdoesn't seem to be enough handle er Mitchell Fischman, are usually given approval appropriate

Netter suggested that the S-1 zon-supecific area of town, on area could especially profit. In addition to the site plan into the "checklist" referred to by Selectmen in their review, or by turning the site plan review process over to the Planning Board in that

either by injecting more specifics tions presented by injecting more specifics tions presented by the structure of the specifics of the structure of the structure of the specific of the structure of the structu included substituting a Special Permit for the Special Use Permits in to the Growth Policy Committee, the S-1 district.

### AKE A TIMELY INVESTMENT NYOUR HEALTH THIS SPRING.

workahops, lectures, screenings, and support groups thoughout the year concerning health and healthy Southwood Community Hospital sponsors many counces, ways of living. We hope you'll refer to our Calendar of Events for current programs and services in your communalty, and will post it in your home or office as a bealthful reminder

FRIENDS OF SOUTHWOOD

The Friends of Southwood Community Hospital is a group of area residents and community leaders who are dedicated to the betterment of The Cancer Care Center at Southwood Community Hospital.

ceeds will benefit Hospice Care. Fee \$14.95 for adults relagime Brusch - 10:30 a.m.-2:00 p.m. Come and that will include breakfast and luncheon items. Proenjoy a brunch at Southwood Community Hospital and \$6.95 for children. For further information or reservations call (508) 668-0385, x327 SUNDAY, MARCH 19

UXILIARY

7 IO n ni Paricipants Fickers are \$25 per person and include the fashion Southwood Community Hospital Auxiliary at their Spring Fashion Show at the Sheraton Millord Inn. show and dinner. For further information or for Programs to learn and enjoy at the same time. Spring Fashion Show - 6.30-10 p.m. Join the tickets call (508) 528-2569 or 528-4117. FHI IRSDAY, MARCH 9 & 16 THURSDAY, MARCH 9 PROGRAMS

legs. Class size limited. Fee \$40, Piffiputiation required. Centle aerobics class for people who do not exercise regularly. Class size limited. Fee \$25. Preregustration Stretch & Tone Exercise Class - March 27-May 8, 4-6.45 p.m. Strengthenstones the atms, abdomen, Express Class - March 27-May 8, 5:15-5:45 p.m. required. Call (508) 668-0385, x495. MONDAYS & WEDNESDAYS CALI (508) 668-0385, x495.

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Screening Mammogram - Streening mammograph, program. Appl. required. Cold 4-800-458-0228.

Foxborough Reporter

Scrowth Policy Committee member Loan types of soils found along the highway. The Sozio said last week the town should consider a firm, had been contracted to formulate a allowing commercial development in a differ-specialised growth management plan for Sozio said last speec the town angular allowing commercial development in a different area than Route 1:

Sozio was referring to information the committee had been given earlier that evening, by HMM Associates, Inc., regarding the

"I know it's hard to change zoning said tests done in the past showed that much of soil Sozio last Wednesday evening, but it doesn't tests done in the past showed that much of the look as though Route I is going to third any free was not considered suitable for convenour expectations." the numbers that would accompany development.

And, as Building Commissioner Art Folsom stated at the same meeting, the town is

promising indications of the soil study, she said, a recent update on a water study also in progress has indicated that the town wellfield isn Route 1 is also particularly susceptible to tamination.

ndo's comment was made near the end of

'hurting, and we need to expand the tax base. a presentation by HMM Project Manager The need to see what we can do on Route 1." Mitchell Fischman and Environmental Planner Greichen Routech, who encouraged committee in town more conducive to commercial growth. Un'addition to the not-soner Greichen Roorbach, who encouraged committee members not to give up on the

If approval could be obtained for the siting of three or four small septic treatment plants, the area could be serviced quite well, said Fischman and Roorbach. If this avenue was pursued, development of the area could still take place. A THE RESERVE OF THE PARTY OF T

### Ared

### Septic woes may hinder Route 1 development

By JULIET PENNINGTON Sun Chronicle Staff Writer

FOXBORO - A preliminary report presented by HMM Associates to the growth policy committee indicates that a large portion of Route 1 is not conducive to on-site septic disposal.

Planning Director Timethy Higgins said that constraints on the area — including a well site and an "enormous amount" of ledge and clay would "preclude a treatment facility" in the area that the committee is trying to decide how best to develop.

The committee is having studies conducted on the area so they can use the information to guide them on the recommendations for zoning bylaw changes that will be voted on at the May town meet-

"The bottom line is we're hurting (financially) and we need to expand the tax base," said commission member and Building Inspector Art Folsom to board members Wednesday. Folsom claimed that whatever zoning bylaws or other restrictions were made, the land should be "attractive" to commercial developers "or else we're going to be facing an override (of Proposition 2%).

HMM Associates is the consulting firm hired by the town to help the committee gear the town's growth in a direction that would the most beneficial.

In a report on the Route 1 area, zoned "S-1," HMM project manager Gretchen Roorbach discussed the potential zoning buildout of Route 1; the traffic and sewer impacts that could accur; and area regulatory controls that may be appropriate.

with the most extreme case accenario — if Sullivan Stadium and the raceway were both gone and that land was developed for office and retail use.

She said that not only was there an inadequate lack of water to accommodate a "total buildout" of the area, but there was also inadequate sewer facilities.

"We had a soil scientist look into what kind of sewer system could be used...and he found that the area can't absorb on-site septic (waste)," she said.

Higgins explained that water has to be able to percolate through the soil and much of the area has ledge and clay that won't absorb liquid.

Roorbach is also preparing two other case scenarios to present to the committee — one that would have the stadium remain, but the raceway go and another if they both remained.

"Because of a change in the circumstances (K-Corp buying Sullivan Stadium), we need to see the buildout potential of the area with the stadium remaining," said committee co-chairman Michael Coppola.

HMM planning director Mitchell Fischmann cited a couple of ways to lure developers while at the same time protecting the area while the town is researching the zoning bylaw changes.

One way would be to have an interim zoning overlay district, which would work in conjunction with the current underlying zoning so controls would be in place during the interim until the town adopts new zoning regulations.

The principle advantage to this, said Mitchell, is that it is temporary (two years) and would allow for a flexible, discretionary review process by the committee.

Another way, he said, would be to have incentive zoning, where the developer provides the community with a public benefit, such as affordable housing or open space, in exchange for permission to build a project that is larger than that which would otherwise be permitted by zoning.

Foxboro Reporter 11/17/88

### Study will consider Route

By Pamela Braman

What life would be like for Foxboro without the stadium was one of the issues topmost on the minds of the Growth Policy Committee last week, as members discussed with representatives of HMM Associates, Inc. of Concord, a management plan being done of the Route 1 area. HMM was hired about a month ago to perform the much-awaited study, which will examine the town's capacity for growth along Route 1, and the ramifications of that growth.

The study is expected to include recommendations by legal counsel assisting HMM as to measures the town can adopt to protect the town, and to encourage developers to share the costs associated with growth.

Other issues brought up by Committee members as being important to the town were the protection of the water wells on Route 1, and the careful management of growth along the commercial strip. Foxboro wants to increase tax revenues by allowing development in that

### development potentia

but there are many other qualities the town wants to retain Slong with that growth.

Committee members told HMM at preliminary meeting held last beek that they had not yet decided ractly what kind of development hey wanted to encourage on Route . They indicated they were sure of ome things they did not want,

however, including a car auction such as the one further north on Route 1 in Walpole, or expansion of the Conrail yard in Foxboro.

Concerning the possible loss of the Patriots team at the stadium, HMM Project Manager Mitchell Fischman told the Growth Policy Committee that he could, as part of the plan's worst case scenario, include the implications and possibilities for development if the stadium reverted back to the town at a later date.

Because the large parking lots around the stadium are owned by the owners of adjacent Foxboro Raceway, not the town, the owners could use the land for development. The land the stadium sits on, how-(Please turn to page 2)

### Route 1 development

(Continued from page 1)

ever, is owned by the town, though rights to it have been written off in a lease until after the year 2000.

If the stadium were to close, the seling among town officials is that the actual stadium structure could evert to the town also. Growth Policy Committee members wonered if HMM could include recommendations for uses for the site.

Fischman said that HMM would probably have a report put on paper about January 31, allowing enough make recommendations before May fown Meeting. The project manag-r said that the scope of the plan

showed the town was on a tight schedule.

Fischman also said the \$20,000 cost for the study, being paid for with a grant from the state Executive Office of Communities and Development, would not allow for the gathering of very much new data. HMM will utilize build-out figures arrived at by the Metropolitan Area Planning Council (MAPC) as part of a town-wide growth management plan it is working on.

Along with Fischman, Assistant Project Manager Gretchen Roor-bach and Counsel Edith Netter will be working on the HMM study for Foxboro. 

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