



# **Town of Wenham Open Space and Recreation Plan**

**January, 2001**



**Prepared by the Wenham Open Space Planning Committee**

To: Wenham Board of Selectmen, Conservation Commission, Planning Board, Parks and Recreation Committee, Finance and Advisory Committee, Long Range Planning Committee, Bicycle and Pedestrian Safety Committee, Board of Health, Water Commissioners, Fire Prevention Officer, Historic District Commission, Wenham Historical Society, Iron Rail Commission, Metropolitan Area Planning Council

From: Wenham Open Space Planning Committee

Date: January 9, 2001

Subject: OPEN SPACE AND RECREATION PLAN

Attached is a draft of the Town of Wenham Open Space and Recreation Plan for your review. Successful completion of this plan will make Wenham eligible for state Self-Help Funds, among other benefits. The plan must be approved by the Division of Conservation Services (DCS) in the MA Executive Office of Environmental Affairs.

We are required to include written comments from the Wenham Board of Selectmen, the Wenham Planning Board, and the Metropolitan Area Planning Council in Section 10 of the plan. We will also include any other written comments we receive. Based on the comments, we will make any final revisions necessary and then submit the plan to DCS for approval. However, we will not make major revisions unless there are glaring errors. We are anxious to have an approved plan which is "good enough" for a working document, rather than a perfect plan. We are required to revise the plan every five years.

The format and contents are, to a large extent, dictated by the Division of Conservation Services. There are aspects of the format which have seemed redundant or awkward, but we have tried to follow directions.

Due to the eminent departure of Fran Fink, the Conservation Coordinator, we need your comments by the morning of January 22. If you anticipate difficulty meeting this deadline, please contact Fran (468-5526) as early as possible.

Finally, **DO NOT DISCARD YOUR COPY** of the plan! We will send you copies of all the comments received to add to Section 10, as well as copies of any pages that we need to revise. If you do not plan to use your copy after this initial review, please return it to the Conservation Commission office in Town Hall for others to use.

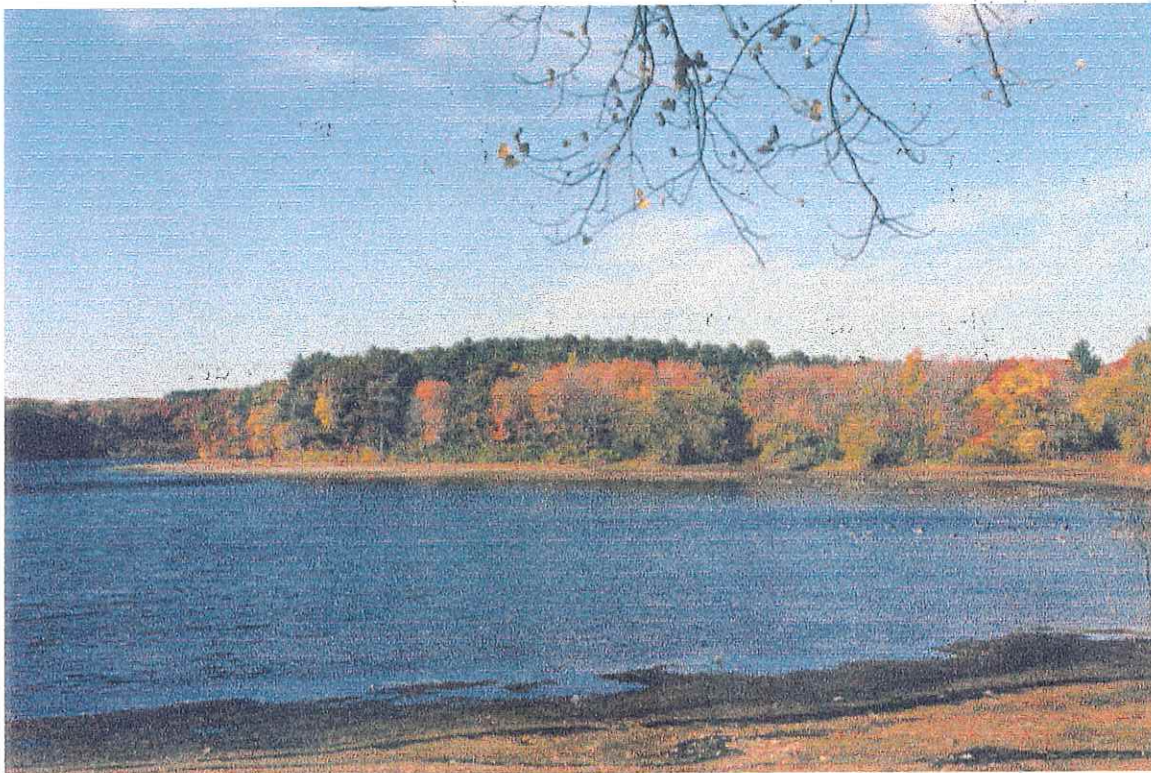
Thank you in advance for your comments. Also, we are looking for new members to join us on the OSPC to begin to carry out the plan - please spread the word!





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## Section 1 - Plan Summary

The Town of Wenham Open Space and Recreation Plan is designed to maintain the rural character of the town, to conserve and protect our natural resources, and to provide recreational opportunities for our citizens. This plan should serve as a guide to Town boards and officials, as well as private organizations, in setting land use policies and in providing facilities and services.

This plan has been designed:

- To describe the community's natural, cultural, and recreational resources;
- To inventory lands of conservation and recreation interest;
- To analyze the community's open space, recreation, and conservation needs;
- To set open space, recreation and conservation goals and objectives;
- To recommend a five-year action plan to serve these goals and needs.

## Section 2 - Introduction

### A. Statement of Purpose

The purpose of this plan is to provide a document that will guide the citizens of Wenham in making decisions about land use policy as the town seeks to balance development pressures with its desire to maintain its small-town feeling and significant natural resources.

The Wenham Conservation Commission first published open space and conservation goals in the form of a multi-page brochure in 1973. This was followed by an Open Space Study in 1977 and an Open Space and Recreation Plan in 1986, both of which were approved by the Division of Conservation Services in the Massachusetts Executive Office of Environmental Affairs. In 1989, the ad hoc Open Space and Housing Study Committee published Guiding Growth for Tomorrow in two volumes: Wenham's Landscape and Final Report and Recommendations. The Town has implemented many of the recommendations made in these documents, but has lost some opportunities along the way as land has been subdivided. However, other opportunities still exist and new ones have come to light; hence, this plan.

### B. Planning Process and Public Participation

The planning process began with the concerns of a citizen, Larry Harding, over the fact that the School Committee was considering construction of a new middle school on conservation land owned by the Massachusetts Audubon Society. Larry spoke to the Conservation Commission and others in Town Hall and wrote letters to the Hamilton-Wenham Chronicle. He also began to recruit volunteers. Thanks to his efforts, the following people came together and formed the Open Space Planning Committee: Trina Smith, Paul Niederer, Don Finocchio, John Swenson, Carole Ganz, Alison Hoffman, Sandra Belock-Phippen, Bob Burnett, and Fran Fink. This Committee (the "OSPC") conducted the research and wrote the plan. Five of them are former or present members of the Conservation Commission, and one serves as the Commission's Coordinator.

The planning process began in April of 1996, with a meeting attended by the OSPC, the Conservation Commission, and representatives from eight other Town boards. The OSPC then began the initial fact-finding process that resulted in Sections 3, 4, and 5 of the plan. We interviewed knowledgeable officials and citizens, visited sites, collected records and maps, and made personal observations. We held monthly public meetings to review and revise written drafts and maps.

The OSPC also distributed a questionnaire in the fall of 1996 to every household in town to find out what people valued about Wenham and what needs they saw for recreation and open space. The results of the questionnaire formed the basis for Sections 6, 7, and 8 of the



plan, describing needs and setting goals and objectives. With further research on ways to implement the goals, we drafted Section 9, the five-year action plan.

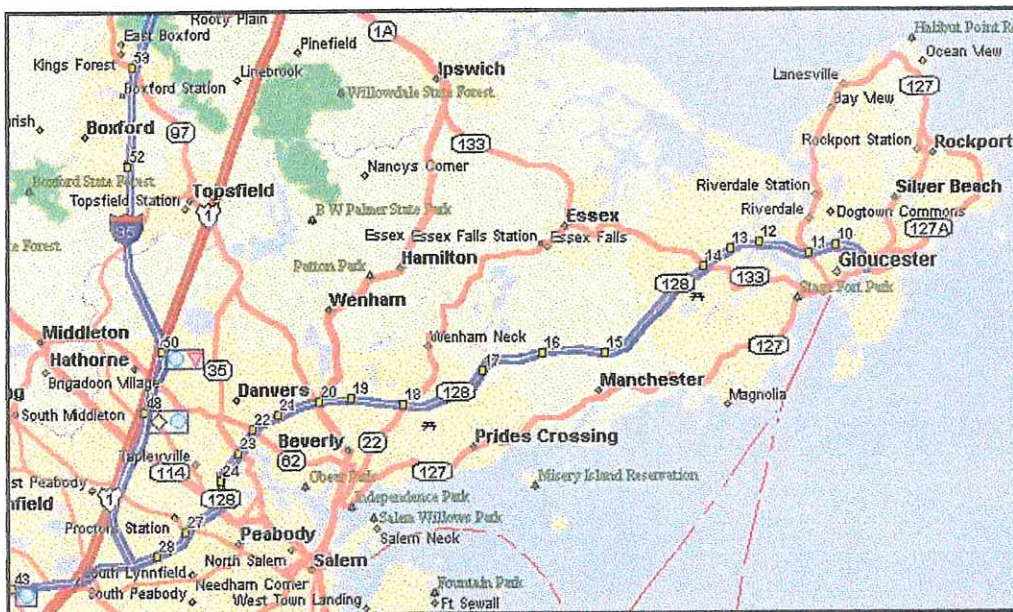
The OSPC then published the draft plan and distributed it for comments to the Board of Selectmen, Conservation Commission, Planning Board, Hamilton-Wenham Parks and Recreation Commission, Finance and Advisory Committee, Long Range Planning Committee, Wenham Bicycle and Pedestrian Safety Committee, Metropolitan Area Planning Council, MA Division of Conservation Services, Board of Health, Water Commissioners, Fire Prevention Officer, Historic District Commission, Wenham Historical Society, and Iron Rail Commission. All comments received are included in Section 10 of this plan.

Based on these comments, the OSPC revised the plan and published the final draft. We are grateful to all those who participated in this planning process.

## Section 3 - Community Setting

### A. Regional Context

Wenham is an inland community 30 miles northeast of Boston. The town is long and narrow, measuring nearly six miles long from east to west and ranging from three-quarters to two-and-a-half miles wide north to south. Wenham is bordered by Beverly to the south, Danvers and Topsfield to the west, Hamilton to the north, and Beverly and Manchester to the east. The MBTA commuter rail line, Interstate Route 128, and Routes 1, 1A, 97, and 22 link Wenham to Boston and other regional cities and towns.



The location of the town near Boston and the coast, its rail and roadway commuter links, its well-regarded school system, and its small town, open space ambiance make Wenham a highly desirable residential community. In recent decades, Wenham has gradually changed from a community of local business people, town employees, estate owners and their employees, to one of professionals who, for the most part, commute to workplaces outside of town. With this shift, the community has experienced more demand for high-quality public education and for recreational facilities. The town has generally managed to grow at a comfortable pace and still enjoys a significant amount of undeveloped land. The growth rate has been moderated by the abundance of wetlands and ledge outcroppings, the continued family ownership of large estates, the acquisition of land for water supply protection and conservation, the absence of a public sewage disposal system, and the Zoning Bylaw.

Perhaps the most important role that Wenham plays within the region is that of watershed

water bodies and wetlands, including the Ipswich and Miles Rivers, Wenham Lake, Longham Reservoir, Coy Pond, Pleasant Pond and the Salem-Beverly Waterway Canal (fed by the Ipswich River). These water bodies add an element of scenic beauty to the town (See Map 3). The most significant wetland is the Great Wenham Swamp adjacent to the Ipswich River in the northwest corner of town, the primary recharge source for town water supply wells in Wenham and Hamilton. The upper Miles River, Longham Reservoir, Wenham Lake, and the Canal are used by the Salem-Beverly Water Supply Board (SBWSB) to provide drinking water to Salem and Beverly, and also to Gordon College and some houses in eastern Wenham. SBWSB water is also available to the town in the event of a water emergency. The watershed for Manchester's water supply includes the entire Coy Pond watershed in the eastern end of town. This watershed also feeds Round Pond, Chebacco Lake, Alewife Brook, and the Essex River, all important water resources in Hamilton and Essex.

Wenham is linked with neighboring communities in a number of other ways. The town shares a joint school system, a joint recreation department and facilities, a public swimming beach, fire and police emergency center, youth recreational leagues, and soon a library with Hamilton. Several major conservation areas, including Long Hill, J.C. Phillips Nature Preserve, and the Ipswich River Wildlife Sanctuary straddle town boundaries. Equestrian trail networks link many of the larger estates in Wenham with each other and with trails in abutting towns, including the Myopia Hunt Club in Hamilton. Beverly Municipal Airport covers land within Wenham, Beverly, and Danvers, and includes undeveloped land around its perimeter. Public access is barred for safety reasons, but the land does provide wildlife habitat and other benefits. Several farms remain in Wenham and provide food for the region. Two golf courses, one public and one semi-private, also serve the region. The Gordon College campus, the Ledyard Farm equestrian center, several tenants at the Town's Iron Rail property, and the Foundation for Continuing Education are private organizations which provide open space and recreational opportunities. Residents of Wenham may also travel to nearby towns to use facilities not available in Wenham.

## B. History of the Community

The original settlement of what is now Wenham took place around 1635 by a land grant to Roger Conant from the Massachusetts Bay Company. This grant was known as "Great Pond", a reference to Wenham Lake, and was part of Salem Plantation. In 1638, Great Pond became known as "Enon" when the Reverend Hugh Peter preached a sermon on the shores of the Great Pond. He quoted John 3:23, "And John was baptizing at Aenon, near unto Salem, because there was much water there". In 1643, the Great and General Court set "Enon" apart from Salem, granting the town a charter under the new name, "Wenham". This name probably had its origins in the only other Wenham in the world, the parishes of Great Wenham and Little Wenham in Suffolk County, England, from which some of the settlers had come.

From early colonial times through the nineteenth century, Wenham was primarily an



agricultural community. In the mid-1800's, an ice industry developed on the shore of Wenham Lake. Ice from this crystal clear lake was prized throughout the country as well as in Europe. With modern refrigeration, the ice business declined in the latter decades of the century.

At the same time, wealthy families discovered the beautiful terrain of Wenham and its proximity to Boston. Many large agricultural properties were converted to country estates and linked with carriage roads and equestrian trails. More recently, many of these estates have evolved into residential, educational, or business use, including Gordon College, Mullen Advertising, Ledyard Farm, the Iron Rail, and a number of residential subdivisions.

Some remain as private estates. Among these, several are protected with Conservation Restrictions, or have agricultural or forestry tax classifications. A few have been acquired by private land trusts or for public conservation land, including Cedar Pond Sanctuary, Long Hill, the Ipswich River Wildlife Sanctuary, and the Endicott Regional Center. During these changes in land use, Wenham's rural heritage has remained visible in its stone walls, open meadows, farmhouses and outbuildings, and tree-lined streets.

Through zoning restrictions, Wenham has limited commercial enterprise and has only one small industry, a specialty machine shop. There are small professional offices and a few stores clustered around the town center, a convenience store and hair salon in west Wenham, and another small commercial center with a variety of businesses at the north end of Route 1A adjacent to the larger commercial district in south Hamilton. The only filling station in town is on the Hamilton border, and there is no grocery store, bank, or dry cleaner. Wenham residents rely heavily on neighboring communities for goods and services.

### C. Population Characteristics

Like many rural communities, Wenham's population grew slowly during the first half of the twentieth century, and then experienced rapid growth during the "baby boom" of the 1940's through 1960's (Figure 3-1 and Table 3-1). During this period, the town took on a more suburban air as fields and forests were subdivided for residential use. The 1970's brought the town's slowest growth rate this century, 2.1%, while the 1980's brought a more moderate rate of 8%. The Massachusetts Institute for Social and Economic Research (MISER) projects a 3.3% annual growth rate for Wenham between 1990 and 2000, while projecting a growth rate for Essex County and the state as a whole of about 1.9%. However, the actual growth rate between 1990 and 1998 has been slower, 8.6% over eight years.

The town still retains a rural feeling, with active farms, wood lots, equestrian centers, protected open space, and large private estates located in all parts of town. Population density in 1990 was 513 persons per square mile (Table 3-2), or just under one person per acre. By contrast, Essex County had a population density of 1276 per square mile, and Massachusetts had a density of 746 per square mile. However, a study done by the town's Open Space and Housing Study Committee in 1988 concluded that "there are 72 parcels in

Wenham which could be subdivided into approximately 375-400 single-family house lots under existing zoning bylaws and other regulations". Since that time, at least 80 new lots have been created by subdivision.

When Wenham's demographic statistics are compared to those of greater Boston, Essex County, or the state as a whole (Table 3-3), Wenham has:

- higher median household, family, and per capita incomes;
- a smaller percentage of persons living below the poverty level;
- a higher level of educational attainment;
- lower unemployment rates;
- more workers in professional/managerial, clerical and sales positions;
- less racial diversity; and
- more owner-occupied housing units.

At present, the town is feeling the effect of the 1980/90's "baby boomlet" and has embarked on construction of a new middle school, new playing fields, and other facilities for children. However, according to the MISER population projections, Wenham's mean age will be slightly older in the year 2000 than in 1990 (Table 3-4). If these projections prove to be accurate, there may be more need for walking paths, golf courses, and other such facilities.

It should also be noted that 1,012 of the 4,212 people counted in the 1990 census were residents of the Gordon College campus in the eastern end of town. The College provides playing fields, trails, tennis courts, and other outdoor facilities for its students and staff, and has recently completed a large indoor athletic center including gymnasiums, swimming pools, exercise rooms, and other facilities. The College is presently constructing two new dormitories and projects a stable student body of 1500, including some commuters.

#### D. Growth and Development Patterns

##### 1. Patterns and Trends

As described in subsection B above, the town has grown from its agricultural roots through a period of turn-of-the-century estates into the more rapid residential subdivision growth of recent decades, based on improved commuter transportation facilities.

Present zoning provides two small business districts which have less than ten acres of remaining undeveloped land. The rest of the town is zoned for single-family residential development on 40,000 square-foot lots (Map 1). In the late 1980's, the town amended the Zoning Bylaw to permit multifamily housing for the elderly under certain conditions and to require cluster subdivisions with permanent open space for all subdivisions of three or more lots. The latter amendment has already resulted in the preservation of some 70 acres of land within subdivisions, as well as providing a number of low/moderate income housing units. Thus, while residential growth will continue, it will be more closely coupled

with open space protection than under the traditional 40,000 square-foot lot zoning.

## 2. Infrastructure

### a. Transportation system

The primary mode of transportation in Wenham is by automobile. There is no bus service within or through the town. The MBTA station on the Hamilton-Wenham border by Route 1A provides commuter rail service from Boston to Newburyport and points in between. Beverly Municipal Airport provides private aviation services. Private limousine service and taxis are available to Logan Airport in Boston.

Major roadways include Route 1A (Main Street), Route 97 (Topsfield Road), Route 22 (Essex Street/Rubbly Road), and Interstate Route 128. Routes 1 and I-95 are a short distance up Route 97 beyond the western end of town. Routes 1A and 97 run north and south. Route 1A is the more heavily travelled as it provides a major connection from Route 128 through north Beverly into Wenham, Hamilton, Ipswich, and points north. Route 1A carries a heavy flow of commuter and business traffic, but is still relatively scenic in Wenham, where it is bordered by Wenham Lake, two golf courses, the town cemetery, a farm, and the town's Historic District. Route 97 connects Wenham with Beverly, Topsfield, Danvers, and points beyond, and is primarily residential and agricultural in character. Route 22 also runs north-south, and is less heavily travelled than Routes 97 and 1A. While Route 128 is a major 4-lane highway, its direct impact in Wenham is less than in some towns because it is less than a mile in length. However, it does bring increasing traffic onto local streets such as Grapevine Road, Larch Row, Cedar Street, and Dodges Row as commuters look for convenient alternatives to the congestion on Route 1A.

There is a paved bike trail along Topsfield Road and Cherry Street. There are sidewalks along most of Route 1A, in the neighborhood around Buker and Center Schools, and connecting Enon Village (senior/handicapped housing) to Main Street and to the commercial area in South Hamilton. Many streets in Wenham do not have sidewalks.

### b. Water Supply System

The town's water supply system is managed by the Wenham Water Department, which is governed by an elected board of water commissioners and managed by a superintendent. The water comes from a group of deep wells located at the edge of the Great Wenham Swamp south of Pleasant Pond. The aquifer lies within the Ipswich River watershed, a highly stressed water resource for many neighboring municipalities. The Massachusetts Department of Environmental Protection (DEP) has authority under the 1986 Water Management Act to allocate water to cities and towns through a permitting process. Until 1997, Wenham's allocation was 290,000 gallons per day (gpd), but the town was actually using closer to 390,000 gpd. In 1995, a very dry year, the usage approached 413,000 gpd, and the per capita consumption rate was among the highest in the state. The Town applied for and received an increase in allocation to 390,000 gpd, partly by receiving some of Hamilton's excess allocation. The Water Commissioners have raised prices, instituted



consumer education programs, and placed restrictions on outside water use during the critical summer months. The impact of water supply on future growth will depend upon the extent to which the town can reduce per capita consumption.

Although the town wells will safely yield more than the present allocation, the Ipswich River basin as a whole is already over-allocated and over-used. The Ipswich River was classified as one of the "Most Threatened Rivers in North America" in 1997 by American Rivers, a national organization dedicated to river protection. It was also classified as "impaired" under the Clean Water Act by federal and state environmental officials in 1997, a classification which requires the state to develop a management plan to bring the river back into compliance with federal law.

The quality of Wenham's water supply is excellent; only fluoride is added. Sodium levels have stabilized over the past several years at 16-18 milligrams per liter (mg/l), safely below the 28 mg/l recommended limit. A lead monitoring program is being conducted in a sample of older homes to determine the efficacy of a zinc orthophosphate additive in lowering lead levels. The town adopted an aquifer overlay zoning district bylaw in 1990 to reduce the risk of contamination. The Board of Health has just adopted groundwater protection regulations.

Gordon College and some residences in the eastern end of town are served by the Salem-Beverly Water Supply Board. A few houses are served by private wells. Those houses in eastern Wenham served by the Town water supply have less-than-ideal water pressure. The Wenham Water Board is working on several possible improvements.

#### c. Sewer Service

Most of Wenham relies on on-site septic systems for sewage disposal. The Gordon College campus is served by the South Essex Sewerage District. Parson's Hill, a 65-unit subdivision currently under construction, will also be served by the District, having won the approval of the Planning Board, the Board of Selectmen, and the Massachusetts legislature. However, the Planning Board's present policy is not to support such connections in the future because they will encourage more rapid and dense development than the town desires. The general absence of public sewers has limited and will continue to limit the siting of development in town.

### 3. Long-Term Development Patterns

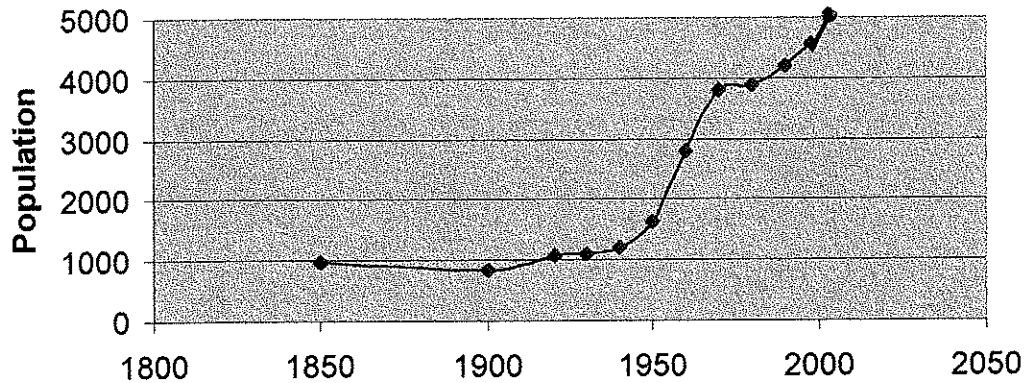
As described above, most of Wenham is zoned for single-family residential use, with two small business districts (Map 1). Wenham's Zoning Bylaw requires a standard lot size of 40,000 square feet of land outside of wetlands and floodplains, with 170 feet of frontage on a town roadway. Using this standard, Wenham's 1989 Open Space and Housing Study Committee calculated that the remaining undeveloped land in Wenham could support an additional 375-400 single-family houses if fully developed. This scenario would also result in the breaking up of open space into privately-owned house lots.

In response to the 1989 study, the town adopted the Residential Open Space Community (ROSC) amendment to the Zoning Bylaw. The ROSC bylaw permits smaller lot sizes and reduced frontage in exchange for the preservation of separate open space lots within the subdivision. If at least 15 percent of the units are low- or moderate-income housing, the developer may build up to 33 percent more units than would be allowed with standard lot design. This density bonus may increase the ultimate full build-out population of Wenham, but will be tempered by the ongoing need to provide on-site sewage disposal. If the Planning Board were to reverse its present policy on connection to the South Essex or other sewer districts, or if the town were to construct a sewage treatment plant, land which is presently unsuitable for development could be much more densely developed. Recent changes in state septic system regulations (Title 5) permit use of a wider range of technology and of soil types, and may result in more "buildable" land than before.

Three ROSC subdivisions, with a total of 71 new lots and about 65 acres of open space, have been approved to date: the Beals estate on Walnut Road, the Williams property on Hull Street, and Parson's Hill on Grapevine Road. Most subdivision activity in the past decade has been on smaller parcels that provide one to three additional lots per parcel. The town has no plans to provide sewer service and is feeling the limits of its water supply allocation.

Gordon College has just received permits to construct two new dormitories and anticipates a student population of about 1500 for the foreseeable future. The MBTA is planning to add 200 new parking spaces to the train station. Given the attractiveness of the town's landscape, location, schools, and other amenities, Wenham can expect continued demand for additional housing and services in the future. The town needs to begin acting now to preserve its rural landscape, its forests, and its water resources for the purposes set forth in Section 6 of this plan.

**Figure 3-1**  
**Population of Wenham**



**TABLE 3-1 Population of Wenham**

Date	Population	Percent Increase
1765	564	
1776	638	
1790	502	
1800	476	(1800-1850): 105 %
1810	554	
1820	572	
1830	611	
1840	689	
1850	977	
1900	847	(1850-1900): -13 %
1920	1090	(1900-1920): 28.7 %
1930	1119	2.6 %
1940	1220	9.0 %
1950	1646	34.9 %
1960	2798	70.0 %
1970	3818	26.7 %
1980	3897	2.1 %
1990	4212	8.1 %
1998	4575	(1990-1998): 8.6 %



TABLE 3-2 Population Density

	Population	Population	Land Area	Density in Persons per Sq. Mi.	Density in Persons per Sq. Mi.
Year	1950	1990		1950	1990
Wenham	1,646	4,212	8.21 sq. mi.	198	513
Essex County	522,384	670,080	525 sq. mi.	995	1207
Massachu- setts	4,690,514	6,016,425	8069 sq. mi.	581	746

TABLE 3-3 Population Characteristics (1989)

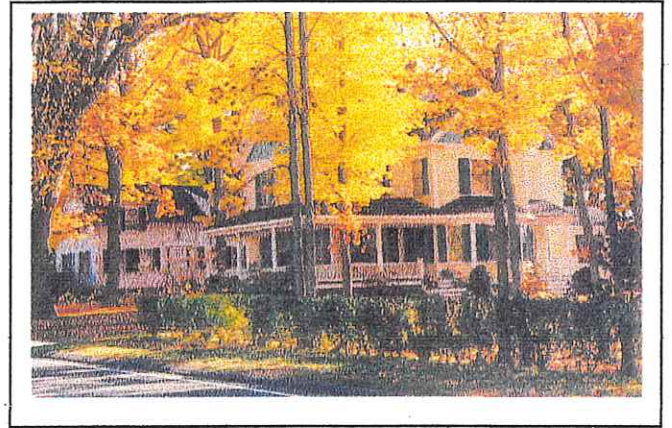
	Wenham	Essex County	Massachusetts
Median Household Income	\$53,872	\$36,952	\$37,913
Median Family Income	\$59,669	\$41,367	\$45,794
Per Capita Income	\$21,781	\$17,224	\$17,586
% of Pop. Below Poverty Level	3.75 %	8.93 %	9.25 %
High School Graduate	93.4 %		80.2 %
Unemployment Rate	2.4 %		6.7 %
Professional/Managerial Workers	36.1 %		32.0 %
Technical/Sales/Administ rative Workers	34.5 %		32.8 %
Service Workers	18.5 %		12.8 %
Farm/Forestry/Fishing Workers	1.3 %		0.9 %
Production/Craft/Repair Workers	5.1 %		10.0 %
Operator/Fabricator/ Laborer	4.5 %		11.4 %
Racial Minority (1980)	98.3%		91.2 %

**TABLE 3-4 Age of Population in Wenham**

	1980		1990		2000	
	#	%	#	%	#	%
<b>0-5 years</b>	125	3.2 %	231	5.5 %	1073 (0-19 years)	24.7 %
<b>5-18 years</b>	713	18.3 %	658	15.6 %		
<b>18-65 years</b>	2689	69.0 %	2783	66.1 %	2712	62.3 %
<b>Over 65</b>	370	9.5 %	540	12.8 %	568	13.1 %
<b>Total</b>	3897	100 %	4212	100 %	4352	100 %



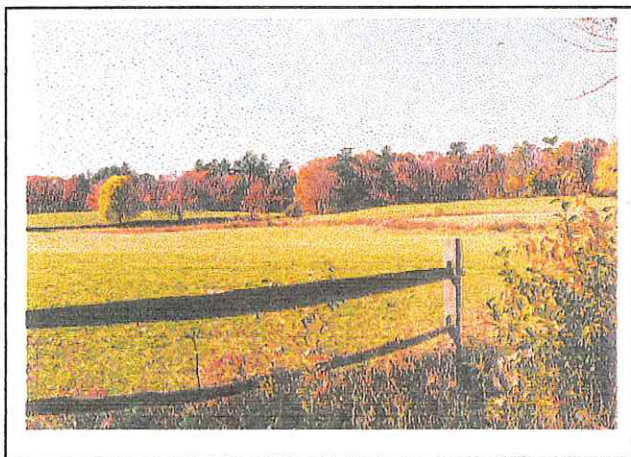
Cedar Pond Sanctuary



Main Street Historic District



Canaan Farm



Larch Row scenic view



Pleasant Pond Beach

## Section 4 - Environmental Inventory

### A. Geology, Soils, and Topography

Wenham's topography is gently rolling with elevations ranging from 35 to 173 feet (Lord's Hill) above mean sea level. As with most of New England, the landscape has been strongly influenced by the work of Pleistocene glaciers over older geological formations (Map 2B). Lord's Hill, Long Hill, and the hill at the western end of Route 97 (Angelini's farm) are all drumlins. The eastern end of town has a number of rocky knobs with bedrock outcrops and thin till soils. Much of the town is characterized by glaciofluvial or moraine deposits of till, sand and gravel. Some of the latter deposits have been mined for construction. Some of the lower land in Wenham is covered with late-glacial or post-glacial marine clay deposits from a period when the oceans were higher. Wetlands and water bodies cover about 40 percent of the town. The wetlands contain extensive recent deposits of peat and muck. Common landscape features include freshwater marshes, shrubby and wooded swamps, agricultural fields, forests, meadows, streams and ponds (Map 3).

In 1975, the Essex Conservation District and the USDA Soil Conservation Service published a soils survey for the Town of Wenham (Map 2A.). Of the 4,864 acres of land in town, 1,230 acres were excluded from this survey, including the Great Wenham Swamp, the Cedar Pond Sanctuary, and the Gordon College land north of Grapevine Road. Thus, the descriptions which follow do not include these areas.

Six general soil associations exist in Wenham:

1. the Muck-Walpole association (498 acres) -- These are very poorly-drained soils formed in thick organic deposits and poorly-drained soils formed in sands and gravel. They occupy about 10 percent of the land surveyed, especially along the Miles River and its tributaries and the edge of the Great Wenham Swamp. (We assume that the Swamp and the wetter parts of the Gordon College land are probably similar in soil type.) This soil association will support wildlife habitat and some recreational uses, but has severe limitations for development because of wetness and inability to support heavy loads;
2. the Hinckley-Merrimac-Sudbury association (1,484 acres) -- These are dry, well-drained and moderately well-drained soils formed in thick deposits of sand and gravel. They occupy about 31 percent of the land surveyed, mostly in the center of town, but with scattered locations to the east and west. They include river and stream terraces, outwash plains, low hills, kames and eskers. Topography ranges from flat to very steep. Texture is generally sandy loam or loamy sand with some gravel or cobbles. They have rapid permeability and support septic systems well, and thus are suitable for development where not too steep or too close to groundwater wells. They also support agriculture, woodlands and recreational uses;

3. the Millis-Paxton-Scituate association (340 acres) -- These are deep well-drained and moderately well-drained, stony and bouldery soils developed in compact, sandy and loamy glacial till with a hardpan (impermeable) layer. They occupy about 7 percent of the land surveyed, mostly in the western end of town on smoothly rounded hills with gently sloping tops and steeper sides. Because of the hardpan, a perched water table rises to within 1.5 to 2.5 feet of the surface for significant periods of time. These soils will support woodlands, agriculture, and recreational uses, but have severe limitations for development due to poor septic system drainage and wet cellars;

4. the Canton-Merrimac association (489 acres) -- These are deep, well-drained, very stony and bouldery soils formed in firm sandy glacial till, and deep, well-drained soils formed in thick deposits of sand and gravel. They occupy about 10 percent of the land surveyed, mostly in the central part of town, with low hills, outwash plains, and stream terraces. The hills may have slopes up to 25%. They have rapid permeability and support septic systems well, and thus are suitable for development where not too steep or too close to groundwater wells. They also support landfills, cemeteries, and recreational uses, but have moderate limitations (slope, stones) for woodlands and agriculture;

5. the Scarboro-Ridgebury-Wareham association (237 acres) -- These are very poorly-drained and poorly-drained soils formed in sand and gravel, and poorly-drained soils formed in compact, stony glacial till. They occupy about 5 percent of the land surveyed in the southwestern and eastern parts of town on relatively flat stream terraces and intervalles. These soils have severe limitations for most uses due to wetness, but provide good wildlife habitat; and

6. the Hollis-Canton association (586 acres) -- These are stony and rocky, shallow-to-bedrock soils with frequent rock outcrops and deep, well-drained, stony and bouldery soils formed in sandy glacial till materials. They occupy about 12 percent of the land surveyed in the eastern end of town, with rolling, irregular hills having gently sloping tops and steeper sides. Where these soils are deep, they will support septic systems and development. Where bedrock is at or near the surface and/or slopes are steep, they are severely limited for development.

Within each of the six soil associations, there are smaller pockets of other soil types which may have different characteristics and thus different suitability for development. These must be identified on-site.

The soil survey also states that Wenham has 887 acres of prime agricultural soils and 329 acres of important agricultural soils (Table 4-1 and Map 2C). Of these acres, approximately 170 are now in agricultural use, 680 are developed for other purposes, and 360 remain open. Much of this land is also readily developable; the town needs to plan for protection of its agricultural resources.

Table 4-1 Prime and Important Agricultural Soils in Wenham

Soil type	Symbol	Area in acres	Farmland rating
Scituate	27A	11	not rated
Scituate	27B	23	Prime
Scituate	28B	22	Important
Scituate	28C	3	Important
Merrimac	36A	10	(not rated)
Merrimac	37A	151	Prime
Merrimac	37B	278	Prime
Merrimac	37C	41	Important
Sudbury	38A	107	Prime
Sudbury	38B	103	Prime
Walpole	39A	46	Prime when drained
Walpole	39B	26	Prime when drained
Windsor	67B	7	Important
Windsor	67C	1	Important
Agawam	68B	5	Prime
Ninigret	70A	5	Prime
Ninigret	70B	13	Prime
Enfield	79A	3	Prime
Woodbridge	81B	20	Prime
Woodbridge	82A	4	Important
Woodbridge	82B	8	Important
Canton	113B	79	Prime
Canton	113C	57	Important
Canton	114B	75	Important
Canton	114C	60	Important
Paxton	122B	17	Prime
Paxton	122C	11	Prime
Paxton	123B	2	Important
Paxton	123D	10	Important
Deerfield	138A	20	Important
Deerfield	138B	19	Important



## B. Landscape Character

Wenham is a town of winding roads lined with sugar maples, hemlock, larch, white pine, oak, and other mature trees. Stone walls, open meadows, fields of corn and strawberries, and old barns speak of the town's agricultural heritage. Marshes, red maple swamps, streams, and ponds are visible reminders of Wenham's rich water resources. It is not uncommon to see deer, coyotes, wild turkeys, herons, egrets or other wildlife. Ledyard Farm provides a glimpse of equestrian jumps set in rolling meadows beside Walnut Road. Steep bedrock outcrops give the landscape a rugged feeling in the eastern end of town. The open top of the drumlin at the western end of Topsfield Road provides a spectacular view of the Great Wenham Swamp and the hills beyond. Walnut Road, Larch Row, Cherry Street and Cedar Street have been designated "Scenic Roads" under MGL Ch. 40, sec. 15C, and the Town placed a scenic easement on town lands which abut Route 128 to preserve the view of forested land from Route 128 (Map 2B).

The Main Street Historic District displays the best concentration of historic architecture and civic buildings, although antique houses are found throughout town. More modern residential subdivisions are well-maintained and kept in balance with undeveloped land. Most residents value the rural, small-town feeling of Wenham and wish to see it preserved.

However, as more people discover the beauty of the town, demand for additional housing continues. Most of the undeveloped private land in town is either difficult to build on for environmental reasons or still held in large estates and farms which are not presently for sale. To the extent that this land does become developed, Wenham risks losing its scenic vistas, rural feeling, wildlife habitat, clean water, trail networks, and manageable traffic patterns. Developers are increasingly willing to bear the extra costs of blasting bedrock, importing earth materials, extending water and (Beverly) sewer lines, and replicating wetlands to build upon marginal lands. The Town must take a more proactive role in balancing preservation with development.

## C. Water Resources

### 1. Surface Water

Nearly 5% of Wenham's total area, 247 acres, is open water (Map 3). Longham Reservoir is a 40 acre man-made waterbody created by damming the Miles River. The remaining 200+ acres are natural. Wenham Lake, the other reservoir in Wenham, was once a thriving center for ice production. Both Longham Reservoir and Wenham Lake are classified by the State Department of Environmental Protection as Class A public drinking water supplies. They serve Beverly, Salem, and a limited area of Wenham. Wenham Lake also provides beautiful views from Route 1A and from Cedar Street.

The Miles River is the largest watercourse through town. It is generally too small or too marshy for recreational use, but it provides valuable wildlife habitat. Its upper half flows into Longham Reservoir, a public drinking water supply.

Several ponds, including Pleasant Pond, Muddy Pond, Cedar Pond, Gull Pond and Coy Pond, are scattered across the Wenham landscape, providing additional scenic beauty, wildlife habitat, and sites for recreation. Pleasant Pond provides the best recreational access, including swimming at the town beach, boat access via a ramp, and fishing for trout stocked by state Fish and Wildlife officials. A short stretch of the Ipswich River passes along the town boundary at the northwest corner of Wenham and provides opportunity for boating and fishing. There is a boat access where Route 97 crosses the Ipswich in Topsfield. Muddy Pond is on private land and is not accessible by the public. Cedar Pond lies within a Massachusetts Audubon Society sanctuary where a trail network provides hiking and cross-country skiing. Gull Pond and Coy Pond are located on the Gordon College campus. There is a swimming beach at Gull Pond, and boating and fishing at Coy Pond. A trail network serves both ponds and adjacent forests and wetlands. However, access is somewhat limited by the College.

The water in Wenham's streams and ponds is generally high quality. The Salem-Beverly Water Board owns much of the undeveloped land adjacent to Wenham Lake, Longham Reservoir, and the Salem-Beverly Water Supply Canal, helping to protect water quality and wildlife habitat (See Map 4). The Canal is a favorite walking spot, providing access to the heart of the Great Wenham Swamp. All of the Water Board lands are criss-crossed with trails and wood roads where people enjoy walking, although the Water Board does not encourage public use.

## 2. Flood Hazard Areas

Map 1 identifies Wenham's Floodplain Zones, an approximation of the flood hazard areas in town, based on FEMA Flood Insurance Rate Maps. (The Flood Insurance Rate Maps are available in the Conservation Commission office.) As one would expect, flood zones fall primarily around The Great Wenham Swamp, the Salem-Beverly Waterway, the Miles River, and the several ponds and reservoirs throughout the town. There are only two or three buildings in town located in floodplains, and streets remain dry in all but the most severe storms.

## 3. Wetlands

Wetlands cover nearly 40% of Wenham's total land area and are spread throughout the town. Major wetlands are shown on Map 3. Wenham's most significant wetlands occur along the flood plains of the Ipswich and Miles Rivers and their tributaries, in the Great Wenham Swamp, between Beverly Airport and Maple Street, and around Coy Pond. The Swamp comprises 2000 acres which contribute exceptional scenic and natural value to the region. Wenham is also the site of an Atlantic White Cedar Swamp, a rare ecosystem in this part of New England, located in the Massachusetts Audubon Cedar Pond Sanctuary. Additionally, marshes add significantly to the beauty of Wenham. Wetland habitats also provide excellent nesting areas, food, and protective cover for wildlife.

In 1969, Wenham commissioned aerial photographs and a wetlands study, which produced a series of maps showing approximate wetlands boundaries. These 14 maps cover the whole town at a scale of 1"=200' and are available in the town's Conservation office. The Conservation Commission has also recently purchased the 1991 color infrared aerial photographs and map overlays produced by the Massachusetts Wetlands Conservancy Program, although the Program has not yet placed restriction orders in Wenham.

Wenham's wetlands are protected by the Massachusetts Wetlands Protection Act. The Water Resources Protection Bylaw passed at the Spring 1988 Town Meeting further supports the Conservation Commission's authority to protect the town's wetland resources.

#### 4. Aquifer recharge areas and surface watersheds

Most of Wenham falls within watershed or aquifer recharge areas (Map 3).

##### a. Zones of contribution to public supply wells

Wenham's two municipal wells are located just south of Pleasant Pond. The Great Wenham Swamp is the primary recharge source for the town water supply. Haley and Aldritch completed a hydrogeological study and mapped the aquifer boundaries in 1987. Based on this map, the town amended the Zoning Bylaw in 1990 to include an Aquifer Protection District designed to minimize the impacts of development on the water supply. The aquifer extends into Hamilton and also supplies their wells located near Idlewild Brook. After the Haley and Aldritch study, the Town of Hamilton had Camp, Dresser, McKee map their aquifers, including the shared aquifer for the wells near Pleasant Pond. The Massachusetts Department of Environmental Protection accepted the Camp, Dresser, McKee study and have made it a part of their wellhead protection maps.

A 1964 U.S. Geological Survey of the water resources of the Ipswich River Basin identifies two aquifers in town. The wells fall within the more significant of the two, but it is important to note that there may be a potential additional water source. (See Map 3.)

##### b. Surface watersheds to water supply reservoirs

The western end of town is the watershed for Wenham Lake (Map 3). The Salem-Beverly Water Supply Board (SBWSB) treatment plant draws from the southern end of the Lake in Beverly. The entire Ipswich River watershed west of Wenham is also tributary to Wenham Lake via the SBWSB Canal. SBWSB pumps water through a pipeline from the canal into the lake during the high-flow season. While most of Wenham is supplied with water from the municipal wells, parts of the eastern end of town including Gordon College and the new Parson's Hill subdivision, are served by SBWSB water.

In the east end of town, the upper Miles River watershed flows into Longham Reservoir (Map 3). SBWSB pumps water as needed from Longham Reservoir into Wenham Lake. The lower end of the Miles River leaves Longham Reservoir at its southern end, flows

northward through Hamilton, and ultimately discharges into the Ipswich River. The natural outlet from Wenham Lake also flows into the Miles River below Longham Reservoir. Thus, the lower Miles River is not a public water supply.

The easternmost end of town falls within the watershed of Manchester's public drinking water supply (Map 3). This watershed feeds Round Pond in Hamilton. The water is then drawn from wells adjacent to Round Pond and pumped into Gravelly Pond in Hamilton, which serves as a water source for Manchester.

Therefore, most of the town falls within water supply protection areas. Water supply protection is, and will continue to be, an important priority for Wenham and for surrounding towns as well.

#### D. Vegetation

For a small town, Wenham has a great variety of vegetational communities with both recreational and wildlife habitat values. This variety is due to the town's location on the edge between the northern coniferous forest and the temperate deciduous forest, its varied topography, geology and soils, and the influence of human history on the landscape. Communities include upland forests and meadows, as well as wetland swamps, marshes, and bogs. The following are a few examples.

The rocky, often steep-sided landscape in eastern Wenham is generally covered with eastern hemlock, American beech, white pine, and birch trees, a combination more common in northern New England. Trails in this cool, moist, shaded community offer glimpses of stone walls built during an agricultural past, as well as stark bedrock outcrops exposed by glacial activity. Due to the density of the tree canopy, understory growth is sparse. Additional trails could be constructed to make the dramatic views of sheer rock and verdant fern mats accessible to more people.

Other types of forests are part of the J. C. Phillips Nature Preserve along the southern shore of Wenham Lake. A mixture of upland and wetland vegetation provides a feast of vegetation types for hikers and wildlife alike. Well-worn paths through an understory thick with witch hazel, blueberry, viburnum, and other native species encircle this area where hickory, oak, maple, and white pine provide the canopy. On the lake shore, one finds clumps of flood plain community trees such as tupelo and river birch, a species locally common but rare in the rest of southern New England.

A clear example of post-agricultural land can be found on the Iron Rail Property. Paths maintained by the Essex County Trail Association pass through forest dominated by grand straight-trunked oaks that now overshadow the earlier pioneer species of the abandoned pasture, such as eastern red cedar and sod-forming grasses. Several stone walls underscore the agricultural past of this woodland. The uplands drain into adjacent alder-clethra-viburnum-red maple swamps with grassy hummocks and ferns underneath. All these

areas offer good wildlife habitat, but the hay fields offer a relatively rare open meadow community. Many abandoned fields have either succeeded to mature forest or have been converted to lawns, playing fields, or golf courses. Thus, the early successional meadow with its dependent wildlife is increasingly uncommon in the region. Such meadows still exist in a number of places in Wenham, including some of the large estates with their equestrian rides, several farms, and Beverly Airport. With infrequent mowing, carefully timed to avoid disrupting the life cycle of grassland plants and animals, these meadows can be maintained in healthy condition. With their adjacent hedgerows and stone walls, they contribute greatly to the rural atmosphere of the town.

Bog communities, relatively uncommon in southern New England, can be found in the Cedar Pond Sanctuary and at least one other (privately-owned) location in Wenham. Among its specialized bog plants, Cedar Pond has a stand of Atlantic white cedar. Less is known about the other bog.

The Great Wenham Swamp is probably the most extensive tract of undeveloped land in town, extending into Topsfield and Danvers. This red maple swamp provides colorful autumn views across the Angelini farm fields from the hilltop on Topsfield Road. The Massachusetts Audubon Society has documented the vegetation in the portions of the swamp associated with its Ipswich River Wildlife Sanctuary, as well as its Cedar Pond Sanctuary and Endicott Regional Center in Wenham. The river bullrush is a species of special concern which grows in the Swamp.

Wenham's streets have been planted with shade trees such as sugar maples, white pines, larches, and oaks which lend beauty to the landscape. Local farms produce fruits, vegetables, hay, and Christmas trees. There is a unique hydroponic nursery on Maple Street which raises wetlands species for bioengineering erosion control projects. Timber from several wood lots in town is harvested periodically under state-approved Forest Cutting Plans. In addition to these more beneficial human influences on the landscape, Wenham has not escaped invasion by aggressive exotic species such as buckthorn, common reed, purple loosestrife, garlic mustard, bittersweet, and Japanese knotweed. Perhaps the most unusual invader is the grass, Glyceria maxima, which has taken over two large plots in the Ipswich River Wildlife Sanctuary. The plot in Wenham is over three-quarters of an acre in size. The Massachusetts Audubon Society embarked on an experimental program several years ago to eliminate this species, but has not yet met with complete success.

With its impressive variety of vegetational communities, Wenham has a landscape rich in wildlife habitat, scenic views, recreational areas, and agricultural uses. It is paramount therefore, when land use decisions are made, that all of these functions be carefully considered.



## E. Fisheries and Wildlife

### 1. Inventory

The receding glaciers and subsequent human manipulation and abandonment of the landscape have created diverse wildlife habitats in Wenham: granite outcrops shaded by hemlock, beech, and oak; various successional stages in previously cleared fields; managed open meadows; and many types of wetlands, including vernal pools. Although we do not have a thorough inventory of animal species in town, we know that common wildlife species include deer, fox, skunk, raccoon, rabbit, and river otter. Less common species include coyote, wild turkey, mole salamanders, and wood frogs. See Appendix A for a list of bird species observed in Wenham by long-time resident Nick Nash, and Appendix B for species recorded in the Endicott Wildlife Sanctuary by the Massachusetts Audubon Society.

### 2. Corridors for wildlife migration

Map 4 suggests several wildlife corridors and areas for future protection if we are to maintain viable wildlife populations in town.

An almost unbroken corridor of species-rich habitats runs from the northwestern corner of Wenham to the southeastern corner. The Great Wenham Swamp has red maple and shrub swamps, cattail marshes, and floodplain ecosystems which are home to a wide variety of terrestrial and aquatic species. The Swamp has been inventoried by the Massachusetts Audubon Society and listed as a high priority site of species habitats and exemplary natural communities by MNHESP. Most of the Swamp is owned by Mass. Audubon or SBWSB, and thus is protected from development.

On the southeastern edge of the Swamp lies Pleasant Pond, a popular fishing area stocked annually with rainbow and brown trout by the Mass. Division of Fisheries and Wildlife. Along the Salem-Beverly Water Supply Canal within the Swamp, seasonal concentrations of butterflies have been noted in the unmowed meadow habitat which permits them to complete their reproductive cycles. The canal corridor links the Great Wenham Swamp to the Cedar Pond Sanctuary, also listed by MNHESP, which contains both upland and wetland communities and a wide range of successional stages. An Atlantic white cedar swamp, a floating sphagnum bog, and vernal pools in the Sanctuary support many species.

South of the Sanctuary lies Wenham Lake, surrounded by the J.C. Phillips Nature Preserve, large tracts of private and SBWSB forests and farms, and limited residential development. Several large farms and undeveloped forested areas connect the west side of Wenham Lake to the Danvers boundary, where Leaches Swamp dominates the landscape. On the east side of the Lake, flocks of waterfowl can cross to the two golf courses on the east side of Route 1A, somewhat protected by a "Warning, Goose Crossing" sign.

On the eastern side of the golf courses, the MBTA commuter rail tracks separate the courses from the lower Miles River corridor, lined with extensive wetlands and leading to town-owned conservation land in the Reynolds and Proctor parcels. These parcels are planted with corn and other vegetables in the summer and attract Canada geese during the winter.

Across the Miles River, the open fields and white pine forests of the Cabot Farm support white-tailed deer, coyotes, and other large species. Much of this land is protected by a Conservation Restriction. Cabot Farm abuts the pine-shaded Longham Reservoir, from which the upper Miles River corridor leads to the Town's Iron Rail property. An alternate wildlife corridor runs from the Reynolds and Proctor parcels across land under Conservation Restriction on Ledyard Farm, the Beals estate, and the Phippen estate, to connect with the Myopia Hunt Club in Hamilton.

In eastern Wenham, there are several hundred acres of undeveloped land which stretch from the Iron Rail to Route 128. Most of this is owned by Gordon College, and abuts extensive undeveloped College land in Hamilton and Manchester. Much of the abutting land, known as "Gordon Woods", has recently been purchased for conservation by a group including the Hamilton and Manchester Conservation Commissions, several land trust organizations, and State Self-Help Funds. The Town owns both unprotected and protected parcels between Route 128 and Hull Street. On the south side of Grapevine Road, a series of large estates along the upper Miles River provides additional wildlife habitat. This area has become increasingly developed in recent years. Several vernal pools have been certified in the area, and the existing topography suggests that there are others to be discovered. Vernal pools are essential to the life cycle of several mole salamanders, some of which are species of special concern.

Where roads must be crossed within these wildlife corridors, increasing vehicular traffic has unfortunately taken its toll. Smaller species such as river otters, minks, raccoons, foxes, turtles, frogs, and skunks may take advantage of culverts under roads, where available. While there are a few culverts under Route 128, it presents a more substantial barrier to wildlife migration than most local streets. East of the highway, only about a dozen houses have existed on several hundred acres of land for many years. The new Parson's Hill subdivision will add 65 new houses, but at the same time will place over 40 acres under Conservation Restriction. Massachusetts Audubon's Endicott Regional Center lies within this area and also provides protected wildlife habitat. Corridors continue into Beverly and Manchester from this eastern end of town.

### 3. Rare, threatened and endangered species

Several parts of town have been designated as rare species habitat by MNHESP. These include the Great Wenham Swamp, portions of the Iron Rail property and the Phippen estate, part of the Cedar Pond Sanctuary, and most of Ledyard Farm and other land along the lower Miles River. Several vernal pools have also been certified in Wenham.

Wenham has already protected a variety of wildlife habitat. The prime areas that need further wildlife protection include the Iron Rail property, undeveloped private property on either side of Grapevine Road, Gordon College property and small areas of town-owned land on the west side of Route 128, the golf courses and several estates in the center of town, and several farms and forest tracts in the west end of town. Within these undeveloped areas, complex and irreplaceable ecological interrelationships have developed which support wildlife. Long-term plans that provide sufficient habitat to preserve native species, while accommodating human needs for development, must be realized soon. Additionally, wildlife alleys over or under roadways must be constructed for the safety of people and animals. Public education, continuing wildlife documentation, evaluation of wildlife protection priorities, and cooperation among individuals and organizations in Wenham and neighboring towns will be key to the protection of Wenham's wildlife.

#### F. Scenic Resources and Unique Environments

Many of Wenham's scenic resources and unique environments have already been mentioned in preceding sections of this document. They include:

##### 1. Scenic Landscapes

Designated Scenic Roads – Cherry Street, Cedar Street, Larch Row, and Walnut Road.

Scenic Easement - Town-owned land which abuts the west side of Route 128. Undeveloped land will also be preserved along the eastern side of Route 128 under Conservation Restrictions associated with the Parson's Hill subdivision and a smaller subdivision at 338 Grapevine Road

Other scenic views include the view across the Angelini's farm into the Great Wenham Swamp and the hills beyond, views of Longham Reservoir from Dodges Row, views of Wenham Lake from Main Street, and the view from the bluffs on the north side of Coy Pond into the Gordon College campus and the surrounding forests and wetlands.

##### 2. Major characteristics or unusual geologic features, and any other resources for potential protection and exploration.

Rocky outcrops and cliffs in east Wenham  
Bogs in the Cedar Pond Sanctuary and off Pleasant Street  
Vernal pools in various locations  
Equestrian facilities and trails  
Farms and open meadows

### 3. Cultural, archeological and historic areas

The Main Street Historic District  
Gordon College campus  
Remnants of the ice houses on Wenham Lake  
Cemeteries on Main Street and William Fairfield Drive

### 4. Areas of critical environmental concern

See Section 3.C above for descriptions of the watersheds and aquifers in Wenham and their importance.

## G. Environmental Problems

Because land use in Wenham remains primarily in residential, agricultural, and open space form, environmental problems are fewer than in more urbanized municipalities. However, Wenham has the following known problems:

#### 1. Hazardous waste sites

An underground fuel storage tank on the Gordon College campus was discovered about eight years ago. The tank has been removed (along with most other underground tanks on the campus) and the groundwater is being cleaned through a filtration system under approval by the Mass. Department of Environmental Protection (DEP). Other leaking tanks at the Mobil Station on Main Street and Burnett's Garage on Maple Street have been replaced and all contamination removed. Both garages now have indoor, above-ground tanks for used motor oil and other hazardous wastes. The town Highway Department operates gasoline tanks at the Iron Rail garage and on the hill above Town Hall. These are tested regularly and are scheduled for an upgrade in the near future. The machine shop on Topsfield Road stores all hazardous materials indoors and has them removed by licensed haulers, as does Gordon College.

Presently, there is no requirement to report residential underground heating oil tanks to the Town or to inspect them routinely. Such tanks are only reported to the Fire Department when the owner decides to alter or remove them.

The land just east of the MBTA tracks at the Beverly line was once mined for sand and gravel, and then used as an illegal dump site. This activity was halted and all hazardous wastes removed under a DEP order.

There are a number of hazardous waste sites in Beverly between Beverly Municipal Airport and Route 97 (Topsfield Road/Cabot Street). DEP has been involved in evaluating and cleaning up these sites, but they are not completely restored. Some were private businesses and one was a sand and gravel pit which became an illegal landfill under the same

ownership as the Wenham site in the preceding paragraph. The City of Beverly now owns some of the sites. Airport Brook, which runs through these sites, flows under Route 97 into Wenham Lake in Wenham. Several Town boards have played an active role in encouraging Beverly's efforts to address the problems in this area.

In 1996 and 1997, the Town has sponsored an annual household hazardous waste collection day. Nickel-Cadmium batteries are collected for recycling at the Library. The town is exploring other options for hazardous waste collection on a more permanent or frequent basis.

Accidental spills from vehicles passing through town are always a possibility. The Fire Department has an emergency response plan in place and has appropriate equipment and materials available.

## 2. Landfills

There are two closed landfills on Woodside Road off Pleasant Street. One is on the south side about half way down, the other at the end. Both were covered and have not been used for many years. Wenham's solid waste is collected at curbside and trucked to the NESWC incinerator in North Andover. Paper, glass, plastic, steel cans and aluminum are collected at curbside and recycled. The Boy Scouts collect and recycle deposit bottles and cans. Clothing and other items are recycled through a collection bin behind the fire house.

## 3. Erosion

Natural erosion has not generally been a problem in Wenham. Erosion from construction sites is closely monitored by the Conservation Commission where they have jurisdiction under state and local wetlands laws.

## 4. Chronic Flooding

Chronic flooding occurs in the Lord's Hill area, on Maple Street near the intersection with Burley Street, on Linden Street near the Hamilton-Wenham line, and on the Gordon College campus near Coy Pond. There are three houses located in the 100-year floodplain.

## 5. Sedimentation

Sedimentation has become a problem in the lower Miles River, following construction of a dam at the Myopia Hunt Club for irrigation purposes. It is also a problem in the former skating pond behind the Wenham Tea House, which receives direct highway runoff. There are probably other older drainage structures in town which convey runoff and sediments directly into wetlands, but these have not been inventoried.

## 6. Development Impact

Traffic-related congestion, noise, and air pollution are increasingly noticeable in Wenham, from both local and through traffic. The safety of pedestrians and cyclists is of increasing concern. Older septic systems are probably affecting water quality, but are being gradually replaced under the new Title 5 inspection requirements. Additional access to public sewer systems would open a lot of presently marginal land for development. The regional school district is overcrowded and has recently constructed a new middle school. The town has exceeded its water withdrawal allocation and has recently received DEP approval for an increase. However, the increase will just meet present needs, and will not support additional growth unless all residents reduce their per capita use. The Water Department is working diligently to reach this goal. Demand for new active recreation sites, especially new playing fields, stems from recent population growth.

## 7. Ground and Surface Water Pollution: Point and Non-point Sources.

Sources of water pollution in Wenham are typical of those in many small towns: road salt, fertilizer, street runoff, failing septic systems, underground heating oil tanks, agricultural and equestrian sources, pet wastes, wildlife wastes, and pesticides. Recent subdivisions are providing storm water management systems which detain and filter runoff, but many older roadways rely on catch basins and pipes which convey runoff directly into the nearest wetland. As stated above, older septic systems and cesspools often do not provide adequate treatment for sewer effluent. The old summer colony around Pleasant Pond is of particular concern to the Board of Health, with its small lots, substandard systems, and fast-perking soils adjacent to the town beach and wells. The swimming beach is occasionally closed due to high bacteria counts. The town does not have any information on the location or condition of underground heating oil tanks, although the Fire Department receives notice when these are removed.



## Section 5- Inventory of Lands of Conservation and Recreation Interest

Wenham is blessed with hundreds of acres of land with conservation and/or recreation value. Among these are the following:

585 acres of permanently protected conservation land publicly owned by the Wenham Conservation Commission, Beverly Conservation Commission, Wenham Water Department, Salem-Beverly Water Supply Board, and the Massachusetts Department of Environmental Management;

609 acres of permanently protected conservation land privately owned by The Trustees of Reservations, Massachusetts Audubon Society, Essex County Greenbelt Association, and the Hamilton-Wenham Open Land Trust;

262 acres of land under permanent Conservation Restriction on six estates, with 44 additional acres to be restricted within the Parson's Hill Subdivision now under construction, and 15 more acres in the process of being restricted on a seventh estate;

236 acres of agricultural and forestry land on nine farms under the temporary protection of Chapter 61A tax classification;

55 acres of forestry land on two properties under the temporary protection of Chapter 61 tax classification;

93 acres of recreational land in two golf courses under the temporary protection of Chapter 61B tax classification;

39 acres of undeveloped town-owned land with no protection from development;

80 acres of town-owned land in the mixed use Iron Rail property, including three soccer fields, the highway department garage, a gymnasium, a Boy Scout barn, a ropes course, a future cemetery site, and undeveloped forests and wetlands. There is no restriction on development on this site;

one privately-owned (but open to the public) and two town-owned playgrounds totaling 24 acres, and a 7-acre school site; and

a 7-acre cemetery, a 24-acre senior housing site, a 36-acre airport site which remains largely undeveloped, and a 318-acre college campus.

In addition, there are nine private estates with 20 or more acres, twenty-one private properties with 10-20 acres, and a number of smaller private parcels which may have open space or recreational value.

### A. and B. Protected Parcels and Unprotected Parcels

Tables 5-1, 5-2, and 5-3 on the following pages identify and describe these parcels in detail. They are shown on Map 4.

### C. Handicapped Accessibility

The following public sites are under the jurisdiction of the Hamilton-Wenham Recreation Department or the Wenham Conservation Commission. They were inventoried under the federal Section 504 guidelines for accessibility:

1. Reynolds/Proctor Conservation Land, Larch Row
2. Williams Conservation Land, Hull Street
3. Pleasant Pond Beach, Pleasant Street
4. Pingree Park, Main Street
5. Car barn Lot, Main Street
6. Higgenson Bicentennial Playground, Topsfield Road
7. Recreation Center, Union Street, Hamilton

With the exception of Pingree Park, these sites do not have provisions for handicapped access, and Pingree Park does not meet all applicable requirements. Obviously, the town needs to work toward better access at these sites.

See Appendix C for the full Section 504 Self- Evaluation.

Another Section 504 report on Patton Park in Hamilton, which is used by Wenham residents through the joint Recreation Department, has been published in the Open Space and Recreation Plan for the Town of Hamilton (1997). This park also needs improvements.

Abbreviations used in Tables 5-1, 5-2, and 5-3

Ch. 61	Property tax classification for land in forestry production
Ch. 61A	Property tax classification for land in agricultural production
Ch. 61B	Property tax classification for land in recreational use
Cons. Com.	Conservation Commission
CR	Conservation Restriction
ECGA	Essex County Greenbelt Association
ECTA	Essex County Trail Association
HWOLT	Hamilton-Wenham Open Land Trust
HWRSD	Hamilton-Wenham Regional School District
HWYSA	Hamilton-Wenham Youth Soccer Association
IRGA	Iron Rail Gymnastics Academy
MA DEM	Massachusetts Department of Environmental Management
MAS	Massachusetts Audubon Society
MBTA	Massachusetts Bay Transit Authority
Perp.	Protected from development in perpetuity
Rec. Dept.	Hamilton-Wenham Recreation Department
ROSC	Residential Open Space Community under Wenham Zoning Bylaw
SBWSB	Salem-Beverly Water Supply Board
Self-Help	Massachusetts Self-Help Program grant
TTOR	The Trustees of Reservations
WVIS	Wenham Village Improvement Society

**Table 5-1**

**Protected Parcels in the Town of Wenham**

**Note: All parcels in this Table are in the Residential Zoning District.**

PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	GRANTS RECEIVED	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE or RECREATIONAL POTENTIAL
Reynolds/P roctor	Cons. Com.	same	Agriculture	good	yes	Gift to Town	Perp.	20-1 20-11	24.88 8.98	trail, canoe launch
Williams ROSC	Cons. Com.	same	forest and marsh	good	yes	Gift to Town	Perp.	44-18 44-21	8.70 2.71	trail, water supply protection
Pleasant Pond Beach	Cons. Com.	Rec. Dept.	swim- ming, boating fishing	problems with pond weeds and occasional water quality	yes	Self-Help	Perp.	7-58	2.31	trail connections to Hamilton
Pump House	Town	Water Dept.	Town wells	good	yes		Perp.	12-15	17.88	water supply protection, trail
Standpipe Lot	Town	Water Dept.	stand- pipe	good	yes		Perp.	35-35	1.3	small playground
Canal	SBWSB	SBWSB	water supply, trails	good	discourag ed		Perp.	5-1	232	water supply protection, trail
Cedar Street to Cherry Street	SBWSB	SBWSB	water supply pipe- line	good	discourag ed		Perp.	18-1 18-3F	6.8 1.60	water supply protection, trail
Wenham Lake and shores	SBWSB	SBWSB	water supply	good	discourag ed		Perp.	36-2	48	water supply protection, trail
Longham Reservoir area	SBWSB	SBWSB	water supply	good	discourag ed		Perp.	30-3 30-17 39-2	18.5 6.5 173.75	water supply protection, trail
Pleasant Pond right- of-way	MA DEM	MA DEM	forest	good	yes		Perp.	7-6B 7-7A	1.5 0.77	trails. link to Hamilton

PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	GRANTS RECEIVED	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE or RECREATIONAL POTENTIAL
J.C. Phillips Nature Preserve	Beverly Cons. Com.	Beverly Cons. Com.	wildlife sanctuary		yes	Self-Help	Perp.	36-1	29.61 in Wenham	trails, link to Beverly
Pine and Hemlock Knoll	TTOR	TTOR	wildlife sanctuary	good	yes		Perp.	7-7	15.2	trail link to Hamilton
Long Hill (Sedgewick Estate)	TTOR	TTOR	wildlife sanctuary, formal garden	good	yes		Perp.	40-4	24.8 in Wenham	trail link to Beverly
Ipswich River Wildlife Sanctuary	MAS	MAS	wildlife sanctuary, canoeing, trails	good			Perp.	2-1 4-2	322.5 19.9	water supply protection
Cedar Pond Sanctuary	MAS	MAS	wildlife sanctuary, trails	good	yes		Perp.	17-13 17-14	129.83 33.65	trails, wildlife habitat
Endicott Regional Center	MAS	MAS	wildlife sanctuary, offices	good	yes		Perp.	48-2 48-15 48-3C	14.38 6.56 5.36	trails



PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	GRANTS RECEIVED	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE or RECREATIONAL POTENTIAL
Leaches Swamp	ECGA	ECGA	wetland	good	yes		Perp.	9-1 '9-2 15-3	0.22 0.91 24.5	wildlife habitat, trail link to Danvers and Topsfield
Wenham Lake Shore	HWOLT	HWOLT	water supply protection, view	good	yes		Perp.	26-14	11.13	trail, picnic area
Wm. Fairfield lots	private	private	residential, view	good	no		deed restriction within 150'-200' of roads	16-100 16-112 16-113 16-114	5 total	scenic view
Zernik Trust	private	private	meadow, tree farm	good	no		deed restriction in Perp.	16-110 16-11	2.41 2.66	scenic view
Boyden Farm	private	ECGA holds CR	water supply protection, agriculture	good	no		CR on 12.7 acres	18-5 26-6	12.7 9.0	trails
Cabot Farm	private	Cons.Com. holds CR	agriculture, equestrian trails, forest	good	ECTA members		CR in Perp.	28-5A	76.85	trails

PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	GRANTS RECEIVED	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE or RECREATIONAL POTENTIAL
Beals Estate	private	ECGA holds CR, ECTA maintains trails	equestrian trails	good	ECTA members		CR in Perp.	21-6 21-21 21-22	16.34 12.59 4.3	trail links to Hamilton
Phippen Estate	private	ECGA holds CR	equestrian trails	good	ECTA members		CR in Perp.	22-3 22-6	7.11 19.45	trail link to Hamilton
Steward Estate	private	ECGA holds CR	forest, Miles river access	good	no		CR in Perp.	31-5 41-7	4.9 0.46	trails
Ledyard Farm	private	Cons.Com. holds CR	equestrian trails, events, training	good	ECTA members		CR in Perp.	21-1A 21-6 21-12A 21-17 21-17A	22.9 36.2 29.0 9.4 0.96	trails
Ayer Estate	private	private	forest, wetlands, meadow	good	yes		CR in Perp. to be granted to ECGA	21-3	15.35 under CR	trails, Miles River access, wildlife habitat
Parson's Hill Sub-division	private	private	forest, wetland	good	no		CR in Perp. to be granted	45-3 45-50 45-49	44 under CR	trails, skating, link to Manchester

Table 5-2

Unprotected Parcels:  
Parcels with Ch. 61, 61A, and 61B Tax Classification  
Publicly-Owned Parcels  
Parcels Owned by Institutions and Organizations

Note: All parcels are in the Residential Zoning District

PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE AND RECREATIONAL POTENTIAL
Angelini Farm	private	private	agriculture: corn, tomatoes, hay, berries	good	no	Ch. 61A on 12.0 acres	9-4	18.6	view, trails, water supply protection
Dearborn/ Nickerson Farm	private	private	agriculture, forestry	good	no	Ch. 61A on 48.7 acres	35-64	56.73	water supply protection, trails
Shorts Farm	private	private	agriculture: hay	good	no	Ch. 61A on 22 acres	18-64	40.24	fields, trails, aquifer
Lee Tree Farm	private	private	forestry	good	no	Ch. 61 on 30.87 acres	41-10	32.87	trails, Miles River
Cabot Farm	private	private	agriculture	good	no	Ch. 61A on 38.84 acres	28-5 28-16	61.13 2.00	fields, trails, water supply
Dodge Farm	private	private	agriculture, nursery	good	no	Ch. 61A on 10.0 acres	13-138	10.82	fields, trail
Canaan Farm	private	private	agriculture	good	no	Ch. 61A on 12.32 acres	26-13 27-132	11.4 3.05	fields
Barnard Farm	private	private	agriculture	good	no	Ch. 61A on 5 acres	31-6	7.44	fields
Burnett Farm	private	private	agriculture, forestry	good	no	Ch. 61 on 24.63 acres, Ch. 61A on 28.68 acres	23-16 24-3	24.63 28.68	fields, trails

PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE AND RECREATIONAL POTENTIAL
Fuller and Burr Trust	private	private	agriculture, forestry	good	no	Ch. 61A on 41.39 acres	24-9	119.79	fields, trails
Streeter Farm	private	private	agriculture, forestry	good	no	Ch. 61A on 17.3 acres	24-8A	18.3	fields, trails
Lakeview Golf Course	private	private	golf course	good	yes	Ch. 61B on 29.82 acres	27-36 27-44	29.82 1.4	fields, trails
Wenham Golf Course	private	private	golf course, sledding	good	yes	Ch. 61B on 63.05 acres	27-33	63.05	fields, trails
Leaches Swamp	Town	Town	wetland	good	via abandoned RR bed	none	23-12	5.7	wildlife habitat
Beverly Municipal Airport	City of Beverly	Airport Commission	airport	good	no	none	33-22 34-1	0.5 30.22	wildlife habitat
Drago Lot	Town	Town	forest	good	yes	none	15-29	0.92	view of Wenham swamp, small playground
off Mayflower Drive	Town	Town	swamp	good	yes	none	15-2	15.1	wildlife habitat, link to Danvers

PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE AND RECREATIONAL POTENTIAL
Chapel and School-house Lots	Town	Town	open	poor	yes	none	16-57 and 16-58	0.25	abuts Fuller and Burr
Buker and Center Schools	Town	HWRSD	elementary school, fields	good	yes	none	13-44	7.13	renovate Center School for indoor recreation?
Town Cemetery	Town	Cemetery Commission	cemetery	good	yes	Perp.	27-34	7.4	historical interest
Wm. Fairfield Cemetery	Town	Cemetery Commission	cemetery	good	yes	Perp.	65-115A	0.5	historical interest
Enon Village	Wenham Housing Authority	Wenham Housing Authority	elderly and assisted housing	good	yes	none	20-7	24.6	trails, Miles River frontage
Pingree Park	Town	Rec. Dept.	playing fields, playground	good	yes	none	14-5	14.56	fully developed
Car Barn Lot	Town	Town	mostly lawn	good	yes	none	19-85	0.61	gathering place, rest stop along bike path
Higgenson Playground	Town	Rec. Dept.	tennis courts	good	yes	terms of will	25-28	3.16	small playground, field
Miles River Lot	Town	Town	wetland	good	yes (wet)	none	37-22	5.3	limited by wetness, wildlife habitat

PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE AND RECREATIONAL POTENTIAL
Iron Rail Property	Town, with portions leased to HWYSA, IRGA, and others, a portion dedicated for future cemetery	Iron Rail Commission	trails, soccer fields, future cemetery, Highway Dept. garage, Boy Scout barn, gymnasium leased for dance and gymnastics	good	yes	none	31-1	79.53	undeveloped portion mostly wetland/wildlife habitat
Wolkins Lot	Town	Town	forest, 200-foot scenic easement along Rt. 128	good	yes	none	47-2	5.3	Near Williams ROSC conservation land, trails, wildlife habitat
Elliot Lot	Town	Town	forest	good	yes	none	47-3	2.09	abuts Williams ROSC, trails, wildlife habitat
MBTA Lot	MBTA	MBTA	former rail spur to ice houses	good	no	none	37-7	4.2	abuts Lakeview Golf Course
Friend Court Lot	Town	Town	former water standpipe	needs planting	yes	none	19-36	0.56	view across golf course, playground
Recreation Building	Town	leased to nursery school	nursery school	good	no	none	13-43	0.25	abuts Buker School, playground

PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE AND RECREATIONAL POTENTIAL
Off Old Rubbly Road	Town	Town	Wetlands on Miles River	good	yes	none	41-11	2.6	water supply protection, trails
Pleasant Pond Lots	Town	Town	forest	good	yes	none	7-5 7-45 '7-51 '7-53 '7-59	0.8 total	small playground, water quality protection
Wallis Lot	Town	Town	wetland, forest	good	yes	none	19-79	0.8	wildlife habitat
Gordon College	Gordon College	same	College campus, playing fields, trails, ponds, forest, wetlands, 200-foot scenic easement on Route 128	good	limited	none	43-1 42-5 44-4 44-4A 44-4D 44-5 44-15 44-16 45-1 45-4	238 29.7 12.29 13.408 4.646 1.15 3.12 0.92 10.3 4.936	trails, boating, skating, watershed protection, wildlife habitat
Founda-tion For Continuing Education	FCE	FCE	former summer camp, used for adult education	good	no	none	12-12	8.07	swimming, boating trails, camping, playground, picnics, aquifer protection
Notre Dame Children's Classes	NDCC	NDCC	nursery / elementary school with playground	good	no	none	30-20	1.95	playground, link between Iron Rail and Mullen properties



PARCEL	OWNER	MANAGER	USE	CONDITION	PUBLIC ACCESS	DEGREE OF PROTECTION	MAP&LOT	ACREAGE	OPEN SPACE AND RECREATIONAL POTENTIAL
Wenham Tea House	WVIS	WVIS	restaurant playground tennis courts	good	yes	none	19-16	6.3	conintue same use, restore skating pond, aquifer protection
Mullen Adverti-sing	same	same	corporate office park	good	no	none	40-3	49.64	forest, wildlife habitat, trails, watershed protection

**Table 5-3**  
**Unprotected Parcels:**  
**Privately Owned and Managed Parcels**

**Note:** All parcels are in the Residential Zoning District unless otherwise described in the table. Parcels with present use described as “Residential” generally include a single-family house and associated accessory uses, but also include undeveloped land.

MAP	LOT	ACREAGE	PRESENT USE	OPEN SPACE AND RECREATIONAL POTENTIAL
7	6	10.55	Residential	wetlands, abuts MAS and TTOR sites
10	32	9.45	Residential	wetlands, abuts MAS and SBWSB
10	21	10.16	Residential	wetlands, abuts MAS and SBWSB sites
10	11	17.1	Undeveloped	wetlands, abuts SBWSB Canal
11	17	9.93	Residential	abuts SBWSB
11	22	5.5	Undeveloped	abuts SBWSB
11	17	9.99	Residential	abuts SBWSB
12	16	19	Residential	abuts Town wellfields, open meadows
12	25	7.3	Residential	abuts Town wellfields
13	7	8.94	Residential	ponds, forest, abuts Town wellfields
13	6	8.94	Residential	abuts Town wellfields
14	19	13.33	Residential, horses	partly zoned Business, abuts Pingree Park and shopping district
14	1	8.42	Residential	abuts 14-9
15	2	15.1	Undeveloped	owner unknown, wetlands
18	2	14.76	Residential	SBWSB pipeline easement, meadows, scenic
19	56	50.78	Residential	meadows, forest, scenic view, wetlands
20	12	8.56	Residential	meadows, scenic view
20	4	7.04	Residential	forest, wetlands
21	3	16	Residential	meadows, forest, scenic view, horse trails, Miles River frontage, agriculture
21	2	9.9	Residential	meadows, forest
22	10	5.89	Residential	ponds, wetlands
23	11	8.6	Undeveloped	wetlands, trail link to Danvers
23	2	13.3	Undeveloped	wetlands, trail link to Danvers
23	10A	5.1	Residential	abuts 23-2
25	17	5.7	Residential	abuts MAS sanctuary
25	18	4.8	Residential	abuts MAS sanctuary
28	15	26.6	Undeveloped	ECTA trails, meadows, wetlands
29	4A	13.96	Residential	pond, meadows, horse trails, forest
29	4	11.53	Residential	ECTA trails, equestrian center
29	10	9.65	Residential	forest, abuts SBWSB reservoir
29	9	6.08	Residential	forest, abuts SBWSB reservoir
30	1	10.43	Residential	abuts SBWSB land, horse trails
30	2	5.62	Residential	abuts SBWSB land, horse trails
30	18	13.38	Residential	water supply protection

MAP	LOT	ACREAGE		OPEN SPACE AND RECREATIONAL POTENTIAL
32	4	17.67	Residential	wetlands, forest, abuts Gordon College land
33	1	7.6	Undeveloped	link to Danvers
34	4	25.3	Residential	wetlands, forest, abuts Streeter and Beverly Airport
34	6	14.5	Undeveloped	wetlands, forest, abuts Streeter and Beverly Airport
34	7	4.5	Undeveloped	wetlands, forest, abuts Beverly Airport
34	3,4,10,11, 12,13,16,17 18,19,20,21 22,23,24,25	18	Undeveloped	undeveloped lots in subdivision, mostly wetlands
37	6	11.5	Residential	abuts Wenham Lake and Lakeview Golf Course
37	21	29		former gravel pit, abuts Miles River, Town Conservation land, Lakeview Golf Course
39	1	12		released from Ch. 61A status 11/99, open meadows, abuts SBWSB land on Loingham Res.
39	8	25.46	Residential	stream tributary to Longham Reservoir, abuts Long Hill, forest
39	7	23.16	Residential	stream tributary to Longham Reservoir, abuts Long Hill, forest
40	2	34.3	Residential	stream tributary to Longham Reservoir, abuts Long Hill, forest
41	4	7.3	Undeveloped	Miles River frontage, wetlands, forest
41	5	3.5	Undeveloped	Miles River frontage, wetlands, forest
41	8	14.4	Residential	Miles River frontage, wetlands, forest
41	12	10	Undeveloped	Miles River frontage, wetlands, forest
42	14	8.1	Residential	Miles River frontage, wetlands, forest
42	15	18.4	Residential	Miles River frontage, wetlands, forest
42	16	10.99	Residential	forest
47	3A	5.81	Undeveloped	abuts Town Conservation land
47	3B	5.99	Undeveloped	abuts Town Conservation land
47	1	2.78	Undeveloped	abuts Town land, Route 128 frontage
48	7	2	Undeveloped	owner unknown, abuts open space in Parson's Hill and MAS land, wetland
48 and 49	14, 14A, 14B 2	16.5	Residential	meadows, trails, wetlands, dog kennels, abuts Parson's Hill open space, existing trails, links to Beverly and Manchester, includes 4 parcels under boundary dispute
48	12	4.5	Residential	abuts 48-14
48	15	1.2	Undeveloped	abuts MAS land

## Section 6- Community Goals

### A. Description of Process

The OSPC drafted a questionnaire during the summer of 1996 and mailed approximately 1200 copies to all property owners in September, 1996. (Appendix A) The OSPC also distributed copies at the Wenham Library and during the Special Town Meeting on November 19, 1996, and placed articles in the Hamilton-Wenham Chronicle announcing the survey and reminding people to return the forms. We received 201 completed questionnaires from a broad range of people (based on household size and number of years residing in Wenham). We tabulated the responses and written comments. We also consulted with representatives of a number of Town boards and organizations such as the recreation department, water department, and roadway safety committee, and reviewed maps and records available in Town Hall. We then used the information and opinions we had gathered to formulate the goals set forth in section 6B.

Some goals aim to preserve undisturbed natural areas in order to protect and renew our water supplies, clean and cool our air, provide habitat and food for wildlife, and decrease soil erosion and noise pollution. Other goals aim to manage open space for active and passive recreation, agricultural production, and forestry. Still others aim to perpetuate our man-made resources and traditions, and to control future growth.

### B. Statement of Open Space and Recreation Goals

The OSPC hereby establishes the following goals for this plan:

1. To maintain the rural/historic/ "small town" character of the town;
2. To protect water resources;
3. To protect wildlife and plant habitat and other natural resources;
4. To maintain and encourage the use of land for agriculture and forestry;
5. To provide recreational facilities and opportunities for all citizens that will encourage community spirit and connections among people; and
6. To develop and sustain the town's commitment to carrying out this plan.

These goals are considered equally important and are listed in no particular order.

## Section 7 - Analysis of Needs

In prior sections we have inventoried Wenham's recreational and natural resources. From the survey and previous studies we have established the community's open space and recreational resource goals. The difference between what we have and our goals are our needs.

### A. Summary of Resource Protection Needs

The resources discussed in this section are natural resources such as groundwater, wetlands, lakes, streams, floodplains, forests, farmland, wildlife corridors and greenbelts as opposed to land for active recreational use. Wenham is rich in such resources, but many are privately owned and vulnerable to future development. From the OSPC's recent survey and previous town planning documents, it is clear that the citizens desire to preserve and protect our natural resources.

The OSPC survey identified our surface water and groundwater resources as our most important resources, for both Wenham and neighboring municipalities. Watershed and aquifer protection is therefore our highest priority. We need to identify the most critical parcels for water supply purposes and implement a protection plan which may involve acquisition, zoning, or other restrictions. Ironically, Wenham has recently received low marks on a water conservation "report card" published by the Ipswich River Watershed Association and Massachusetts Audubon Society, primarily because our consumption rates remain high. Thus, we also need effective measures to reduce consumption rates. Many of the environmental problems described in section 4.B. of this document are potential threats to water supply. We need to take action to address these problems, which include residential fuel tanks, hazardous wastes in the area near Beverly Municipal Airport, household hazardous wastes, erosion and sedimentation from construction and highway runoff, flooding, and failing septic systems. Finally, we need to identify municipal facilities and practices which may presently affect water resources and make improvements where possible.

Our survey identified wildlife habitat as the second most important land use. It is well documented that diverse types of open space connected by open corridors provide the most productive wildlife habitat. Therefore, we need to identify critical habitats and corridors within the town and beyond our borders and work to preserve them. Where corridors have been interrupted, we need to work to restore them.

The survey identified open space for passive recreation (trails, nature walks, etc.) as the third most important land use. Passive recreation can be provided easily on lands set aside for water supply and wildlife purposes. Many survey respondents asked for more trails, trail guides, maps, parking, and other supports for passive recreation.

The survey identified farmland as the fourth most important land use, close behind passive recreation. This preference reflects the strong value placed on the town's rural/small town

character by respondents, a preference well-documented by the 1988 Open Space and Housing Study Committee. They noted that because farmland is so easily developed into housing lots, there is tremendous financial incentive to sell farmland for housing. The Residential Open Space Community addition to the Zoning Bylaw was a direct result of their work and is working to preserve open space as properties are subdivided. However, more direct approaches are needed to keep our working farms in full production.

The survey respondents ranked scenic views, architecture, and historical sites as less important than the top four categories, and ranked active recreation sites as the least important. Again, this reflects the value placed on the town's general character.

### B. Summary of Community's Needs

Community needs discussed in this section include needs for active recreational use, as well as other Town development needs. Wenham is undergoing many changes in use of Town lands, and most of these projects have experienced some difficulties:

A cemetery is being planned for a portion of the Iron Rail property off Rubbly Road, as the town nears capacity of its centuries' old cemetery on Main Street. In order to avoid wetlands alterations, the Town has had to seek some land from an adjacent owner.

With a growing school-aged population, a new middle school has just been built at the regional high school in Hamilton. The former middle school, Buker, has been renovated and converted to an elementary school. In the early stages of the planning process for the middle school, serious consideration was given to acquiring a wildlife sanctuary owned by a private land trust organization for a building site. There has been difficulty providing an adequate number of playing fields for the middle-high school complex.

The new Hamilton-Wenham Library under construction on the existing Recreation Center site in Hamilton will leave vacant space at Town Hall. Planning is underway for reconfiguration of Town Hall uses. Designers say that construction of the library will not affect activities in the Recreation Center.

New soccer fields were constructed on the Iron Rail property recently. There was difficulty locating an adequate well for irrigation, and one field is less than standard size to avoid adjacent wetlands.

The MBTA is planning a new commuter rail parking lot and train station in Wenham to replace the South Hamilton station. This will provide more parking for commuters.

A committee has recently formed to consider constructing roadside bicycle paths/sidewalks and traffic calming devices to improve pedestrian and bicycle safety. Their proposals will require funding and the cooperation of private property owners.

There are no other Town projects in sight at present. However, present Town holdings are reaching full capacity for development. The Town needs to identify and purchase suitable land for future development. The Town also needs to identify present land holdings which are not suitable for development and consider restricting these areas for conservation purposes.

In terms of overall zoning, 18% of survey respondents were interested in rezoning residential areas for office park use and 10% were interested in more commercial use. Only 4% favored additional industrial use. Responses were cautious, with comments calling for a very careful, well-planned, limited approach to zoning changes. Most respondents were satisfied with present residential zoning requirements. Less than 7% called for multifamily housing, while about 25% were interested in affordable housing, elderly housing, and clustered housing, and/or large-lot housing. Present zoning does permit all of these options. Town officials need to monitor housing needs and pursue solutions.

As mentioned previously, survey respondents ranked active recreational land use as the lowest priority, after water supply, wildlife, open space, farmland, and historic/scenic land use. Most were satisfied with recreational facilities for children (74%) and adults (69%), with only 5-6% expressing dissatisfaction.

When asked what would increase their use of existing recreational areas, trail maps, benches, parking, organized activities, and more free time were most frequently cited. Other suggested improvements included more playing fields, access for dogs, control of dog wastes, better supervision of children, paved sidewalks for both general and handicapped access, baby swings, unlocked gates, better publicity/awareness, better maintenance, a tennis court backstop, and trails which are well-marked and maintained.

When asked what additional open space areas they would like to see in Wenham, about half the survey respondents asked for passive recreational areas, while less than one quarter asked for active recreational areas. The requests for passive recreational areas placed emphasis on resource conservation, wildlife and plant preservation, nature study, and activities such as walking, cross-country skiing, birding, canoeing, skating, and finding peace and beauty. The requests for additional active recreation areas included a playground in west Wenham (we think another in east Wenham would also be nice.), a picnic area at Wenham Lake on Cedar Street, a running track, small playgrounds in cluster subdivisions, a teen area for skateboarding/ rollerblading/ socializing, more organized activities for teens and children, mountain bike trails, more fields for soccer and baseball, and more tennis courts.



According to Maggie Whitesell, director of the Hamilton-Wenham recreation program, the Recreation Committee needs at least two more full-sized multi-purpose playing fields for soccer, field hockey, lacrosse, and similar sports. The constant use of the existing fields does not allow adequate time for turf recovery, and the number of teams is growing. Suitable sites need to be identified and developed. The Recreation Committee also needs improved handicapped access for its facilities, documented in the Section 504 evaluation in Appendix C. Access improvements are planned in the near future for the swimming pool in Patton Park and for the Recreation Center when the library is added. Routine water quality testing at the Pleasant Pond beach indicates occasional problems with high bacteria levels. Weed control is also a problem. The Recreation Committee has not had a great demand for additional playgrounds. They are able to meet staffing needs through collection of fees for programs.

### C. Management Needs, Potential Change of Use

Good stewardship of conservation and recreation areas involves proper management and on-going maintenance. Wenham's existing open space areas are managed by a variety of public agencies and private land owners. This approach is likely to continue in the future. It might be worthwhile to review current responsibilities and see whether changes are needed to more effectively meet the open space plan goals.

The adoption of this open space plan by Town boards and officials will create a new management need, namely to enact the plan. The Open Space Planning Committee should continue its work in a new form, and become the primary coordinator for action under the plan.

Several other management needs which have come to light during the planning process include: a need for public information about recreational facilities and for organized activities using those facilities; a need to keep tabs on short-term land protection measures such as Chapter 61A classifications to assure that the Town is ready to respond if the protection expires; a need to work with neighboring municipalities where a resource is shared; and the ever-present need to obtain funding to support good plans.

## Section 8 - Goals and Objectives

Based upon the results of the questionnaire and upon comments and information from public officials, town boards, citizen groups, Town planning documents, and individual residents, the Open Space Planning Committee has established the broad goals defined in Section 6 and the needs described in Section 7. Based upon these sections, the Committee now sets forth the following goals and objectives.

### GOAL 1: To maintain the rural/historic/ "small town" character of the town

#### Objectives:

- A. Preserve the rural landscape (stone walls, mature shade trees, open meadows and fields, farmhouses and outbuildings, hedgerows, carriage trails)
- B. Preserve historic architecture
- C. Control new development so that it fits visually with the old
- D. Preserve peace and quiet, especially from traffic
- E. Manage growth

### GOAL 2: To protect water resources

#### Objectives:

- A. Educate the public about where the town's watersheds and aquifers are and how to behave there
- B. Encourage water conservation
- C. Prevent or control development, especially in the most sensitive parts of watersheds, aquifers, and wetlands
- D. Identify existing water quality concerns and ameliorate them
- E. Coordinate efforts with neighboring towns that share water resources

GOAL 3: To protect wildlife and plant habitat and other natural resources

Objectives:

- A. Identify what wildlife and plants live in Wenham, their habitats, and threats to each species
- B. Identify and protect vernal pools and other unique wildlife habitats
- C. Identify and preserve wildlife corridors, including across town borders
- D. Educate the public about these resources and how to help preserve them

GOAL 4: To maintain and encourage the use of land for agriculture and forestry

Objectives:

- A. Maintain existing farms and forests
- B. Encourage new agricultural and forestry uses

GOAL 5: To provide recreational facilities and opportunities for all citizens that will encourage community spirit and connections among people

Objectives:

- A. Provide recreational facilities for a broad range of needs and interests
- B. Encourage special events and regular organized activities
- C. Publicize events and activities well, both before and after they take place

GOAL 6: To develop and sustain the town's commitment to carrying out this Open Space and Recreation Plan

Objectives:

- A. Implement the plan
- B. Renew the plan

The preceding goals and objectives are listed in no particular order. Specific actions to implement the plan will be described in Section 9, along with priorities for action.

## Section 9- Five-Year Action Plan

This Section 9 consists of lists of specific actions that might be taken to work towards each of the goals established in previous sections. The OSPC has established priorities among the actions and has suggested a time frame for their enactment. The OSPC may have given a specific action a higher priority because:

- it will most effectively serve a high-priority goal;
- it must be taken soon, or an opportunity will be lost;
- it is relatively easy to implement; or
- it is a necessary first step towards another action

The priorities are based on present knowledge and circumstances, and may be subject to change during the life of the plan.

Some of the recommended actions are already being carried out by various boards and organizations. We will refer to these as “on-going” activities. We recommend that these actions continue because they are important for the goals of this plan.

We do not expect that all of the ideas set forth below can be completed during the next five years, but do hope to see real progress during that time.

The achievement of any or all of the following actions will require cooperation among town boards, local organizations, and state agencies. The proposed actions will also require the support of the citizens of Wenham; public outreach will play a key role, and volunteer support will be needed for many of the proposed projects. (Anyone reading this plan who would like to volunteer to help with any of the proposed actions is encouraged to contact the Conservation office at Wenham Town Hall, 468-5526.)

We have taken the liberty of including references in parentheses after each proposed action. These references indicate the boards with the most expertise to help carry out each action. We do not intend to put pressure on the Town’s hard-working and dedicated volunteers, but rather to encourage them to consider these suggestions thoughtfully, and to take actions where they see fit. The references use the following abbreviations:

BA	Board of Assessors
BH	Board of Health
BS	Board of Selectmen
BWC	Board of Water Commissioners

CC	Conservation Commission
FAC	Finance and Advisory Committee
FD	Fire Department
HD	Highway Department
HDC	Historic District Commission
HWRSD	Hamilton-Wenham Regional School District
HWRD	Hamilton-Wenham Recreation Department
LRPC	Long Range Planning Committee
OSPC	Open Space Planning Committee
PB	Planning Board
PD	Police Department
SBWSB	Salem-Beverly Water Supply Board
WBPSC	Wenham Bicycle and Pedestrian Safety Committee

One final note before the action plan - the Town has already established a solid base of bylaws and regulations which serve the goals of this plan. They include the Zoning Bylaw, Historic District Bylaw, Water Resources Protection Bylaw, Subdivision Rules and Regulations, Groundwater Protection Regulations, Water Use Restriction Bylaw, and Earth Removal Bylaw. The boards who administer these bylaws and regulations (PB, HDC, CC, BH, BWC, and BS) should periodically review their effectiveness with respect to the goals of this plan and recommend improvements where needed.

## ACTION PLAN

### GOAL 1: To maintain the rural/historic/"small town" character of the town

#### Objectives:

- A. Preserve the rural landscape
- B. Preserve historic architecture
- C. Control new development to fit visually
- D. Preserve peace and quiet, especially from traffic
- E. Manage growth

#### On-going Actions:

Support workshops, house tours, signs, and other educational activities concerning the history of Wenham's landscapes and structures, and also methods to preserve and renovate such structures. (HDC)

Compile information on grants and loans for historic preservation and pass it along to owners of historic sites. (HDC)

Support work of Wenham Bicycle and Pedestrian Safety Committee to design, construct, and maintain roadside paths for bicycles and pedestrians, and traffic calming devices. (OSPC, WBPSC)

Enforce speed limits. (PD)

Maintain streets as rural byways by retaining curves, hills, and narrow pavement. (HD)

Continue Town policy not to support new connections to the South Essex Sewerage District. (BS, PB)

High Priority Actions for Years 1-2:

Find out process and outcome of designating scenic roads. (OSPC)

Identify specific sites with significant rural landscapes. (OSPC)

Learn about and, if appropriate, implement land banking. (OSPC, BA, FAC)

Based on limited availability of water, consider policy limiting new hookups. (BWC)

Lower priority Actions for Years 3-5:

Designate more scenic roads, possibly including parts of Monument Street, Arbor Street, Grapevine Road, Cherry Street, and Larch Row. (OSPC, BS)

Obtain scenic easements, Conservation Restrictions, purchase in fee, or otherwise preserve lands with significant rural character. (OSPC, CC, BS)

Mitigate major sources of noise, including Beverly Airport, traffic, and landscaping machinery.

Mitigate major traffic congestion problems along Route 1A, at the "four corners", along Route 97, and elsewhere as needed.

Analyze the Town's ability to provide services such as schools, police, etc., and regulate growth accordingly. (BS, LRPC)

Recommended Actions to be taken Annually:

Promote transportation alternatives which reduce pollution. (BS, PB, WBPSC)

Analyze traffic impacts expected from new development and require mitigation. (PB, HD)

Identify best land for future town development needs. (OSPC, LRPC, PB)

Include Open Space Committee in review and comment process for proposed developments. (PB, OSPC, CC)

## GOAL 2: To protect water resources

### Objectives:

A: Educate the public about where the town's watersheds and aquifers are, and how to behave there

B: Encourage water conservation

C: Prevent or control development, especially in the most sensitive parts of watersheds, aquifers, and wetlands

D: Identify and ameliorate existing water quality concerns

E: Coordinate efforts with neighboring towns that share water resources

### On-Going Actions:

Continue the environmental education program provided in the public schools by Massachusetts Audubon Society. (CC, HWRSD)

Continue public education on water conservation needs and methods through workshops, press releases, brochures, etc. (BWC)

Support proper collection and disposal of hazardous wastes through annual events and permanent collection sites. (CC, BS)

Minimize Town road salt use, and work with State and private maintenance crews to do the same. (HD)

Identify and repair or replace failing septic systems, and provide technical and financial support to homeowners. (BH)

Work with non-residential users of hazardous materials to ensure proper storage, handling, and disposal. (FD, BH)

### High-Priority Actions for Years 1-2:

Post signs identifying watersheds and aquifers, and street drains which discharge to water resources. (OSPC, BWC, SBWSB)

Conduct workshops or otherwise provide information on recommended equestrian management for water quality, septic system maintenance,

underground fuel tank maintenance, hazardous materials use and disposal, and proper use of fertilizers and pesticides. (OSPC, BH, FD, CC)

Acquire open land, including wetlands, near town wells and public reservoirs, in fee or through Conservation Restrictions. (CC, BWC, SBWSB)

Inventory and maintain underground fuel tanks through an inspection and maintenance bylaw. (FD)

Upgrade street drainage systems to improve water quality, reduce flooding and increase infiltration. (HD, CC)

Work with Hamilton and Topsfield on aquifer protection measures for wells near Pleasant Pond. (BWC, BS)

Lower-Priority Actions for Years 3-5:

Publish and distribute a brochure concerning local watersheds and aquifers and how to keep them healthy. (BWC, OSPC, CC)

Sponsor programs in the schools such as poster contests, science fair projects, and field trips. (OSPC, HWRSD)

Work with Beverly on existing conditions and future plans for the Airport Brook area and other SBWSB watersheds. (BS, CC, SBWSB)

Consider extending Wenham's aquifer protection bylaw to include the aquifer for Manchester's wells near Round Pond. (PB, BH, BWC)

Work with Ipswich River Watershed Association, Friends of the Miles River, and other local organizations. (OSPC, CC)

GOAL 3: To protect wildlife and native plant habitat and other natural resources

**Objectives:**

A: Identify plant and animal populations in Wenham, their habitats and threats to their health.

B: Protect vernal pools and other unique wildlife habitats

C: Identify and preserve wildlife corridors, including across town borders.

D: Educate the public about these resources and how they can help preserve them.



### On-Going Actions:

Continue the environmental education program provided in the public schools by the Massachusetts Audubon Society. (CC, HWRSD)

Identify, map, and certify vernal pools. (CC)

### High-Priority Actions for Years 1-2:

Identify and map important plant and animal habitats, including wildlife corridors and extensions into neighboring towns, with the help of aerial photographs, wildlife professionals, State officials, local naturalists, etc. (OSPC)

Create a central place for reporting wildlife observations. (OSPC)

Place logbooks at trail heads for people to record their observations. (OSPC)

Identify invasive and nuisance species and work on ways to limit their growth. (OSPC, CC)

Seek advice from professionals, including Mass. Department of Environmental Management, and Mass. Natural Heritage and Endangered Species Program, concerning habitat preservation and management. (OSPC, CC)

### Lower-Priority Actions for Years 3-5:

Based on information collected in first two years, set priorities for future actions. (OSPC, CC)

Share information collected in the inventory process through news articles, lectures, and nature walks. Also, approach owners of land with significant habitat value directly. (OSPC, CC)

Enlist volunteers to act as wardens for particular habitat areas, to carry out projects. (OSPC)

Acquire development rights, easements, or land in fee to preserve significant habitats, including vernal pools, wildlife corridors, etc. (OSPC, CC, BS)

Post signs at trailheads describing wildlife and plants along the trail, including information about how to avoid disturbing them. (OSPC)

Conduct workshops on landscaping with native species to provide wildlife habitat, and also on how to handle nuisance species. (OSPC, CC)

### Recommended Actions to be taken Annually:

Work to control nuisance species populations. (OSPC, CC)

GOAL 4: To maintain and encourage the use of land for agriculture and forestry

**Objectives:**

A: Maintain existing farms and forests.

B: Encourage new agricultural and forestry uses.

On-going Actions:

Support and maintain classification of land under Chapters 61 and 61A. (BA, BS, CC)

Lease Reynolds Conservation Land for agricultural use and maintain soil in good condition. (CC)

Shop at local farm stands.

High-Priority Actions for Years 1-2:

Identify landowners eligible for Chapter 61 and 61A tax classifications who do not already have them, and approach them with information about it. Do the same with landowners eligible for Agricultural Preservation Restrictions and Conservation Restrictions. (OSPC, BA, BS, CC)

Contact Mass. Department of Food and Agriculture to find out what funds and services are available to farmers, and share this information with farmers. (OSPC)

Plan strategies for a timely Town response when Chapter 61 or 61A tax classifications are abandoned. (BS, CC, OSPC, FAC)

Identify undeveloped land with prime and important agricultural soils and work to preserve them. (OSPC)

Lower-Priority Actions for Years 3-5:

Implement strategies for Town response to abandonment of Chapter 61/61A classification. (BS, CC, OSPC, FAC)

Assess potential support for a Farmers' Market and set it up if demand is high. (OSPC)

Actively seek funds to purchase development rights or land in fee on agricultural land. (OSPC)

Participate in the State Coverts Program for forestry management. (OSPC)

Connect people looking for agricultural and forestry land with people who own it. (OSPC)

**GOAL 5: To provide recreational facilities and opportunities for all citizens that will encourage community spirit and connections among people**

**Objectives:**

- A: Provide recreational facilities for a broad range of needs and interests**
- B: Encourage special events and regular organized activities**
- C: Publicize events and activities, both before and after they take place**

**On-going Activities:**

Encourage and support local organizations such as the Recreation Department, Girl and Boy Scouts, garden clubs, walking clubs, and sports leagues to plan and carry out programs and provide facilities. (OSPC, BS)

**High- Priority Actions for Years 1-2:**

Maintain and upgrade existing recreational facilities by improving water quality and providing an accessible fishing dock at Pleasant Pond and by addressing handicapped access needs for all facilities as described in Appendix C, the Section 504 self evaluation. (HWRD, BS)

Evaluate existing undeveloped land for recreational potential, particularly for at least two more multi-purpose playing fields, new trails, and a small playground in east Wenham. Analyze the environmental values and limitations of each site. Make recommendations for siting specific new recreational facilities which will protect critical environmental resources and minimize environmental impacts. (OSPC, HWRD)

Make existing parks and conservation lands more inviting by:

- Providing signs, parking areas, trail markers, information boards, benches, picnic tables, trash barrels, and registration boxes;
- Posting rules for use;
- Improving access from residential areas by foot and bicycle. (OSPC, WBPSC, HWRD)

Publish trail guides and maps, including information on who manages the land. (OSPC)

Move the baby swings in Pingree Park into the regular playground area.  
(HWRD)

Lower-Priority Actions for Years 3-5:

Provide a tennis court backstop and playground equipment at the Higginson playground. (HWRD)

Acquire suitable land in fee or by easements for new recreational facilities (playing fields, trails, playgrounds, etc.) and design and construct them.  
Organize public events to support development and celebrate completion.  
(HWRD, OSPC)

Encourage and support activities for people of all ages, abilities, and interests.  
(HWRD, OSPC)

Coordinate events and activities with neighboring towns. (OSPC, HWRD)

Plan events for Earth Day and/or Trails Day. (OSPC, CC)

Establish a town calendar for people planning events and for people seeking information about events. (OSPC)

Recommended Actions to be taken Annually:

Provide publicity by the following methods: issue press releases; distribute brochures; put up posters and banners; place sign boards at the car barn and schoolhouse lots to publicize events and programs; directly contact groups most likely to be interested; invite photographers and reporters to attend events and publish articles in local papers; put information in Recreation Department brochures. (OSPC, HWRD)

GOAL 6: To develop and sustain the town's commitment to carrying out this Open Space and Recreation Plan

Objectives:

A: Implement the plan

B: Renew the plan

High-Priority Actions for Years 1-2:

Establish an Open Space Planning Committee to carry out the 5-year plan. (OSPC) Committee should include members of the present Open Space Planning Committee (for continuity), as well as new members (to expand the committee's capabilities). The work of the Committee should include:

Carrying out those actions which the Committee has the authority and resources to accomplish.

Gathering, organizing, analyzing, and distributing information relevant to the plan.

Encouraging and supporting the work of town boards, officials, and organizations to help carry out this plan, and acting as a liaison among them to help coordinate their activities.

Recruiting volunteers from time to time for specific projects.

Publicizing this plan and the actions taken over the next five years.

Establish a budget and funding sources for the routine work of the Committee. (OSPC, CC, FAC, BS)

Actions for Years 4-5:

Update the plan before the 5-year period expires. (OSPC)

Recommended Actions to be taken Annually:

Evaluate progress and priorities. (OSPC)

As noted in the introduction, this is an ambitious and far-reaching list of actions. We hope that in five year's time we can look back and see that progress has been made, and look forward and see additional projects underway. We know that the people of the town of Wenham will lend their time and talents to conserve our rich natural and cultural resources and to provide meaningful recreational opportunities for all.

## **Section 10 - Public Comments**

This section contains written comments concerning the draft Open Space and Recreation Plan which was circulated in January, 2001. The final Plan has been revised in response to these comments. The OSPC appreciates all the valuable comments we received.

## Section 11 - References

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## **Appendix A**

### **Bird Species Observed in Wenham by Nick Nash**

# Life List for Nick Nash's Yard List - Wenham

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## Location Life List

Location: MASSACHUSETTS Classification: ABA Order: Taxonomically

Common Name	Scientific Name
Common Loon	<i>Gavia immer</i>
Pied-billed Grebe	<i>Podilymbus podiceps</i>
Double-crested Cormorant	<i>Phalacrocorax auritus</i>
American Bittern	<i>Botaurus lentiginosus</i>
Great Blue Heron	<i>Ardea herodias</i>
Great Egret	<i>Casmerodius albus</i>
Snowy Egret	<i>Egretta thula</i>
Little Blue Heron	<i>Egretta caerulea</i>
Cattle Egret	<i>Bubulcus ibis</i>
Green Heron	<i>Butorides virescens</i>
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>
Yellow-crowned Night-Heron	<i>Nyctanassa violacea</i>
Glossy Ibis	<i>Plegadis falcinellus</i>
Greater White-fronted Goose	<i>Anser albifrons</i>
Snow Goose	<i>Anser caerulescens</i>
Canada Goose	<i>Branta canadensis</i>
Wood Duck	<i>Aix sponsa</i>
Green-winged Teal	<i>Anas crecca</i>
American Black Duck	<i>Anas rubripes</i>
Mallard	<i>Anas platyrhynchos</i>
Northern Pintail	<i>Anas acuta</i>
Blue-winged Teal	<i>Anas discors</i>
Northern Shoveler	<i>Anas clypeata</i>
Gadwall	<i>Anas strepera</i>
Eurasian Wigeon	<i>Anas penelope</i>
American Wigeon	<i>Anas americana</i>
Ring-necked Duck	<i>Aythya collaris</i>
Common Goldeneye	<i>Bucephala clangula</i>
Bufflehead	<i>Bucephala albeola</i>
Hooded Merganser	<i>Lophodytes cucullatus</i>
Turkey Vulture	<i>Cathartes aura</i>
Osprey	<i>Pandion haliaetus</i>

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# Life List for

## Nick Nash's Yard List - Wenham

### Location Life List

**Location: MASSACHUSETTS Classification: ABA Order: Taxonomically**

Common Name	Scientific Name
Northern Harrier	<i>Circus cyaneus</i>
Sharp-shinned Hawk	<i>Accipiter striatus</i>
Cooper's Hawk	<i>Accipiter cooperii</i>
Northern Goshawk	<i>Accipiter gentilis</i>
Red-shouldered Hawk	<i>Buteo lineatus</i>
Broad-winged Hawk	<i>Buteo platypterus</i>
Red-tailed Hawk	<i>Buteo jamaicensis</i>
Rough-legged Hawk	<i>Buteo lagopus</i>
American Kestrel	<i>Falco sparverius</i>
Merlin	<i>Falco columbarius</i>
Peregrine Falcon	<i>Falco peregrinus</i>
Ring-necked Pheasant	<i>Phasianus colchicus</i>
Ruffed Grouse	<i>Bonasa umbellus</i>
Northern Bobwhite	<i>Colinus virginianus</i>
Virginia Rail	<i>Rallus limicola</i>
American Coot	<i>Fulica americana</i>
Killdeer	<i>Charadrius vociferus</i>
Greater Yellowlegs	<i>Tringa melanoleuca</i>
Solitary Sandpiper	<i>Tringa solitaria</i>
Spotted Sandpiper	<i>Actitis macularia</i>
Common Snipe	<i>Gallinago gallinago</i>
American Woodcock	<i>Scolopax minor</i>
Ring-billed Gull	<i>Larus delawarensis</i>
Herring Gull	<i>Larus argentatus</i>
Great Black-backed Gull	<i>Larus marinus</i>
Rock Dove	<i>Columba livia</i>
Mourning Dove	<i>Zenaida macroura</i>
Canary-winged Parakeet	<i>Brotogeris versicolurus</i>
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>
Eastern Screech-Owl	<i>Otus asio</i>
Great Horned Owl	<i>Bubo virginianus</i>

# Life List for Nick Nash's Yard List - Wenham

## Location Life List

Location: MASSACHUSETTS Classification: ABA Order: Taxonomically

Common Name	Scientific Name
Long-eared Owl	<i>Asio otus</i>
Northern Saw-whet Owl	<i>Aegolius acadicus</i>
Common Nighthawk	<i>Chordeiles minor</i>
Whip-poor-will	<i>Caprimulgus vociferus</i>
Chimney Swift	<i>Chaetura pelagica</i>
Ruby-throated Hummingbird	<i>Archilochus colubris</i>
Belted Kingfisher	<i>Ceryle alcyon</i>
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>
Downy Woodpecker	<i>Picoides pubescens</i>
Hairy Woodpecker	<i>Picoides villosus</i>
Northern Flicker	<i>Colaptes auratus</i>
Pileated Woodpecker	<i>Dryocopus pileatus</i>
Olive-sided Flycatcher	<i>Contopus borealis</i>
Eastern Wood-Pewee	<i>Contopus virens</i>
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>
Willow Flycatcher	<i>Empidonax traillii</i>
Least Flycatcher	<i>Empidonax minimus</i>
Eastern Phoebe	<i>Sayornis phoebe</i>
Great Crested Flycatcher	<i>Myiarchus crinitus</i>
Eastern Kingbird	<i>Tyrannus tyrannus</i>
Purple Martin	<i>Progne subis</i>
Tree Swallow	<i>Tachycineta bicolor</i>
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>
Bank Swallow	<i>Riparia riparia</i>
Cliff Swallow	<i>Hirundo pyrrhonota</i>
Barn Swallow	<i>Hirundo rustica</i>
Blue Jay	<i>Cyanocitta cristata</i>
American Crow	<i>Corvus brachyrhynchos</i>
Black-capped Chickadee	<i>Parus atricapillus</i>
Boreal Chickadee	<i>Parus hudsonicus</i>
Tufted Titmouse	<i>Parus bicolor</i>

# Life List for

## Nick Nash's Yard List - Wenham

### Location Life List

Location: MASSACHUSETTS Classification: ABA Order: Taxonomically

Common Name	Scientific Name
Red-breasted Nuthatch	<i>Sitta canadensis</i>
White-breasted Nuthatch	<i>Sitta carolinensis</i>
Brown Creeper	<i>Certhia americana</i>
Carolina Wren	<i>Thryothorus ludovicianus</i>
House Wren	<i>Troglodytes aedon</i>
Winter Wren	<i>Troglodytes troglodytes</i>
Marsh Wren	<i>Cistothorus palustris</i>
Golden-crowned Kinglet	<i>Regulus satrapa</i>
Ruby-crowned Kinglet	<i>Regulus calendula</i>
Blue-gray Gnatcatcher	<i>Poliophtila caerulea</i>
Eastern Bluebird	<i>Sialia sialis</i>
Veery	<i>Catharus fuscescens</i>
Gray-cheeked Thrush	<i>Catharus minimus</i>
Swainson's Thrush	<i>Catharus ustulatus</i>
Hermit Thrush	<i>Catharus guttatus</i>
Wood Thrush	<i>Catharus mustelinus</i>
American Robin	<i>Turdus migratorius</i>
Gray Catbird	<i>Dumetella carolinensis</i>
Northern Mockingbird	<i>Mimus polyglottos</i>
Brown Thrasher	<i>Toxostoma rufum</i>
Cedar Waxwing	<i>Bombocilla cedrorum</i>
Northern Shrike	<i>Lanius excubitor</i>
European Starling	<i>Sturnus vulgaris</i>
White-eyed Vireo	<i>Vireo griseus</i>
Solitary Vireo	<i>Vireo solitarius</i>
Warbling Vireo	<i>Vireo gilvus</i>
Philadelphia Vireo	<i>Vireo philadelphicus</i>
Red-eyed Vireo	<i>Vireo olivaceus</i>
Blue-winged Warbler	<i>Vermivora pinus</i>
Golden-winged Warbler	<i>Vermivora chrysoptera</i>
Tennessee Warbler	<i>Vermivora peregrina</i>
Orange-crowned Warbler	<i>Vermivora celata</i>

# Life List for

## Nick Nash's Yard List - Wenham

### Location Life List

Location: MASSACHUSETTS Classification: ABA Order: Taxonomically

Common Name	Scientific Name
Nashville Warbler	<i>Vermivora ruficapilla</i>
Northern Parula	<i>Parula americana</i>
Yellow Warbler	<i>Dendroica petechia</i>
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>
Magnolia Warbler	<i>Dendroica magnolia</i>
Cape May Warbler	<i>Dendroica tigrina</i>
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>
Yellow-rumped Warbler	<i>Dendroica coronata</i>
Black-throated Green Warbler	<i>Dendroica virens</i>
Blackburnian Warbler	<i>Dendroica fusca</i>
Pine Warbler	<i>Dendroica pinus</i>
Prairie Warbler	<i>Dendroica discolor</i>
Palm Warbler	<i>Dendroica palmarum</i>
Bay-breasted Warbler	<i>Dendroica castanea</i>
Blackpoll Warbler	<i>Dendroica striata</i>
Black-and-white Warbler	<i>Mniotilta varia</i>
American Redstart	<i>Setophaga ruticilla</i>
Prothonotary Warbler	<i>Protonotaria citrea</i>
Ovenbird	<i>Seiurus aurocapillus</i>
Northern Waterthrush	<i>Seiurus noveboracensis</i>
Connecticut Warbler	<i>Oporornis agilis</i>
Mourning Warbler	<i>Oporornis philadelphia</i>
Common Yellowthroat	<i>Geothlypis trichas</i>
Wilson's Warbler	<i>Wilsonia pusilla</i>
Canada Warbler	<i>Wilsonia canadensis</i>
Summer Tanager	<i>Piranga rubra</i>
Scarlet Tanager	<i>Piranga olivacea</i>
Northern Cardinal	<i>Cardinalis cardinalis</i>
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>
Indigo Bunting	<i>Passerina cyanea</i>
Dickcissel	<i>Spiza americana</i>
Rufous-sided Towhee	<i>Pipilo erythrophthalmus</i>

# Life List for Nick Nash's Yard List - Wenham

## Location Life List

Location: MASSACHUSETTS Classification: ABA Order: Taxonomically

Common Name	Scientific Name
American Tree Sparrow	<i>Spizella arborea</i>
Chipping Sparrow	<i>Spizella passerina</i>
Field Sparrow	<i>Spizella pusilla</i>
Vesper Sparrow	<i>Pooecetes gramineus</i>
Savannah Sparrow	<i>Passerculus sandwichensis</i>
Henslow's Sparrow	<i>Ammodramus henslowii</i>
Fox Sparrow	<i>Passerella iliaca</i>
Song Sparrow	<i>Melospiza melodia</i>
Lincoln's Sparrow	<i>Melospiza lincolnii</i>
Swamp Sparrow	<i>Melospiza georgiana</i>
White-throated Sparrow	<i>Zonotrichia albicollis</i>
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>
Dark-eyed Junco	<i>Junco hyemalis</i>
Bobolink	<i>Dolichonyx oryzivorus</i>
Red-winged Blackbird	<i>Agelaius phoeniceus</i>
Eastern Meadowlark	<i>Sturnella magna</i>
Rusty Blackbird	<i>Euphagus carolinus</i>
Common Grackle	<i>Quiscalus quiscula</i>
Brown-headed Cowbird	<i>Molothrus ater</i>
Northern Oriole	<i>Icterus galbula</i>
Pine Grosbeak	<i>Pinicola enucleator</i>
Purple Finch	<i>Carpodacus purpureus</i>
House Finch	<i>Carpodacus mexicanus</i>
Red Crossbill	<i>Loxia curvirostra</i>
White-winged Crossbill	<i>Loxia leucoptera</i>
Common Redpoll	<i>Carduelis flammea</i>
Pine Siskin	<i>Carduelis pinus</i>
American Goldfinch	<i>Carduelis tristis</i>
Evening Grosbeak	<i>Coccothraustes vespertinus</i>
House Sparrow	<i>Passer domesticus</i>

190 Birds in this list



## **Appendix B**

**Mammals Observed in Wenham by Nick Nash**

**Butterflies Observed by Chris Leahy at  
the Massachusetts Audubon William B. Endicott Wildlife Sanctuary  
summer 1991- summer 1994**

**Plants Observed by Olga Hayes at  
the Massachusetts Audubon William B. Endicott Wildlife Sanctuary  
summer - fall 1994**

**p-refers to cultivated plants in the gardens**

**\*-denotes introduced plants**

Mammals sighted in Wenham 1994-97.

(by Nick Nash)

Canis latrans	Coyote
Condylura cristata	Star-nose Mole
Glaucomys sabrinus	Northern Flying Squirrel
Lutra canadensis	River Otter
Marmota monax	Woodchuck
Martes pennanti	Fisher
Mephitis mephitis	Striped Skunk
Microtus pennsylvanicus	Meadow Vole
Mus musculus	House mouse
Mustela freneta	Long-tailed Weasel
Mustela vison	Mink
Myotis lucifugus	Little Brown Bat
Odocoileus virginianus	White-tailed Deer
Ondatra zibethicus	Muskrat
Peromyscus leucopus	White-footed mouse
Procyon lotor	Raccoon
Sciurus carolinensis	Gray Squirrel
Sylvilagus floridanus	Eastern Cottontail
Tamiasciurus hudsonicus	Red Squirrel
Tamias striatus	Eastern chipmunk
Urocyon cinereoargenteus	Gray Fox
Vulpes vulpes	Red Fox

## Butterflies Recorded from Endicott Regional Center

Tiger Swallowtail, 7/17/92  
Spiccbush Swallowtail, 8/1/91  
Cabbage White, Common  
American Copper, 7/18/91  
Banded Hairstreak, 7/17/92 (See photo for confirmation)  
Striped Hairstreak, 7/17/92 (See photo for confirmation)  
Spring Azure, 6/2/92  
Eastern Tailed Blue, 8/11/94  
Silver-bordered Fritillary, fairly common, wet meadow  
Great Spangled Fritillary, 8/11/94  
Pearl Crescent, common  
Mourning Cloak, 7/18/91  
American Painted Lady, 7/17/92  
Painted Lady, 7/19/91  
Red Admiral, 7/2/92  
Viceroy, 8/1/92  
Inornate Ringlet, 7/2/92  
Large Wood Nymph, common  
Monarch, 7/17/91  
Silver-spotted Skipper, 7/2/92, 9/17/92  
Least Skipper, 7/2/92  
European Skipper, common  
Eastern Dun Skipper, 7/18/91, 8/7/92  
Yellowpatch (Peck's) Skipper, 8/1/92  
Northern Broken Dash, 7/18/91  
Long Dash, 6/25/92  
Little Glassy Wing, 8/1/92  
Eastern Tailed Blue

C. Leahy

Appendix 3

## Plant Species List for the Endicott Regional Sanctuary

### TREES:

*Alnus incana*  
*Betula lenta*  
*B. lenta*  
*Fagus cuprea\**  
*F. grandifolia*  
*F. sylvatica*  
*Juniperus virginiana*  
*Malus spp.*  
*Pinus strobus*  
*Prunus serotina*  
*Quercus alba*  
*Q. ilicifolia*  
*Q. rubra*  
*Q. velutina*  
*Tilia spp.*  
*Tsuga canadensis*  
*Ulmus americana*  
*U. procera\**

Red Maple  
Yellow Birch  
Black Birch  
European Beech  
American Beech  
Copper Beech\*p  
Red Cedar  
Apple\*  
Eastern White Pine  
Black Cherry  
White Oak  
Scrub Oak  
Red Oak  
Black Oak  
Linden\*  
Eastern Hemlock  
Witch Elm  
English Elm

### SHRUBS and VINES

*Alnus rugosa*  
*Berberis thunbergii\*p*  
*Celastrus orbiculatus\*p*  
*Clethra alnifolia*  
*Clethra sp.(cultivated)*  
*Gaylussacia baccata*  
*Ilex verticillata*  
*Kalmia angustifolia*  
*Lonicera morrowi\* p*  
*L. xylosteum\**  
*Lyonia ligustrina*  
*Salix discolor*  
*Sambucus nigra\**  
*S. pubens*  
*Spirea latifolia*  
*Rhamnus frangula\**  
*Rhododendron viscosum*  
*Rhus vernix*  
*Rosa multiflora\**  
*Vaccinium corymbosum*  
*V. angustifolium*  
*Viburnum recognitum*  
*V. acerifolium*

Speckled Alder  
Japanese Barberry  
Asiatic Bittersweet  
Sweet Pepperbush  
  
Black Huckleberry  
Winterberry Holly  
Sheep Laurel  
Morrow Honeysuckle  
European Fly Honeysuckle  
Maleberry  
Pussy willow  
European Elderberry  
Red Elderberry  
Meadowsweet  
European Buckthorn  
Swamp Honeysuckle  
Poison Sumac  
Multiflora Rosa  
Highbush Blueberry  
Lowbush Blueberry  
Arrowwood  
Maple Leaf Viburnum

## FORBS

*Achillea millefolium*\*  
*Alliaria officinalis*\*  
*Aralia nudicaulis*  
*Asclepias syriaca*  
*Aster novae-angliae*  
*Bartonia virginica*  
*Bidens frondosa*  
*Callitriche heterophylla*  
*Chelone glabra*  
*Circaea quadrifida*  
*Convallaria majalis*\*p  
*Coptis groenlandica*  
*Cornus canadensis*  
*Chrysanthemum leucanthemum*\*  
*Erigeron annuus*  
*Dianthus armeria*\*  
*Epilobium glandulosum*  
*Equisetum fluviatile*  
*Eupatorium dubium*  
*E. maculatum*  
*E. perfoliatum*  
*Fragaria virginiana*  
*Galium palustre*  
*Gaultheria procumbens*  
*Gerardia purpurea*  
*Geum canadense*  
*Glechoma hederacea*  
*Hieracium aurantiacum*\*  
*Hypericum perforatum*\*  
*H. spathulatum*\*  
*Hypericum virginicum*  
*Ilex verticillata*  
*Impatiens capensis*  
*Iris versicolor*  
*I. prismatica*  
*Kalmia polifolia*  
*Leontodon autumnalis*\*  
*Linaria vulgaris*\*  
*Luzula multiflora*  
*Lycopus spp.*  
*Lycopus uniflorus*  
*Lysimachia quadrifolia*  
*L. terrestris*  
*Lythrum salicaria*\*  
*Maianthemum canadense*  
*Monotropa uniflora*  
*Oenothera biennis*  
*Oxalis corniculata*  
*O. europaea*\*  
*Papaver rhoeas*\* p  
*Parthenocissus quinquefolia*  
*Peltandra virginica*

Yarrow or Milfoil  
Garlic Mustard  
Wild Sarsaparilla  
Common Milkweed  
New York Aster  
Yellow Bartonina  
Beggars Ticks  
Water-Chickweed  
Turtlehead  
Enchanter's Nightshade  
Lily-of-the-Valley  
Goldthread  
Bunchberry  
Oxeye Daisy  
Daisy Fleabane  
Depford Pink  
Northern Willow Herb  
Water-horsetail  
Eastern Joe-Pye Weed  
Spotted Joe-Pye Weed  
Thoroughwort  
Wild Strawberry  
Marsh Bedstraw  
Wintergreen  
Purple Gerardia  
White Avens  
Ground Ivy  
Devil's Paintbrush  
Common St. Johnswort  
Shrubby St. Johnswort  
Marsh St. Johnswort  
Winterberry Holly  
Spotted Touch-me-not  
Larger Blue Flag  
Slender Blue Flag  
Pale Laurel  
Fall Dandelion  
Butter-and-Eggs  
Wood Rush  
Bugleweed  
Northern Bugleweed  
Whorled Loosestrife  
Yellow Loosestrife or Swamp Candles  
Purple Loosestrife  
Canada Mayflower  
Indian Pipe  
Evening Primrose  
Creeping Wood sorrel  
Yellow Wood Sorrel  
Corn Poppy  
Virginia Creeper  
Arrow-Arum

*Phlox paniculata* p  
*Phytolacca americana*  
*Plantago lanceolata*\*  
*Polygala sanguinea*  
*Polygonum arifolium*  
*P. sagittatum*  
*Polygonatum pubescens*  
*Potentilla canadensis*  
*P. recta*\*  
*P. simplex*  
*P. tridentata*  
*Prunella vulgaris*  
*Pyrola rotundifolia*  
*Ranunculus acris*\*  
*R. fascicularis*  
*Rhus radicans*  
*Rubus flagellaris*  
*R. hispidus*  
*R. occidentalis*  
*R. odoratus*  
*Rumex acetosella*\*  
*Sagittaria latifolia*  
*Salix discolor*  
*Sium suave*  
*Smilacina racemosa*  
*Stylophorum diphyllum*\*  
*Solanum dulcamara*\*  
*Solidago altissima*  
*S. arguta*  
*S. canadensis*  
*S. gigantea*  
*S. graminifolia*  
*S. odora*  
*S. rugosa*  
*S. tenuifolia*  
*S. uliginosa*  
*Spiranthes cernua*  
*Spirea latifolia*  
*Stellaria gramina*\*  
*Symplocarpus foetidus*  
*Taraxacum officinale*\*  
*Trientalis borealis*\*  
*Trifolium pratense*  
*T. repens*  
*Typha latifolia*  
*Vaccinium angustifolium*  
*Veronica arvensis*\*  
*Vicia cracca*\*  
*Viola cucullata*  
*V. lanceolata*  
*V. pallens*

Garden Phlox  
 Pokeweed  
 English Plantain  
 Purple milkwort  
 Halberd-leaved Tearthumb  
 Arrow-leaved Tearthumb  
 Hairy Solomon's Seal  
 Dwarf Cinquefoil  
 Rough-fruited Cinquefoil  
 Common Cinquefoil  
 Three-toothed Cinquefoil  
 Pink Pyrola  
 Round-leaved Pyrola  
 Tall Buttercup  
 Early Buttercup  
 Poison Ivy  
 Dewberry  
 Swamp Dewberry  
 Black Raspberry  
 Purple-flowering Raspberry  
 Field or Sheep Sorrel  
 Common Arrowhead  
 Pussy Willow  
 Water Parsnip  
 False Solomon's Seal  
 Celandine poppy  
 Bittersweet Nightshade  
 Tall Goldenrod  
 Sharp-leaved Goldenrod  
 Canada Goldenrod  
 Late Goldenrod  
 Lance-leaved Goldenrod  
 Sweet Goldenrod  
 Rough-stemmed Goldenrod  
 Slender-leaved Goldenrod  
 Swamp Goldenrod  
 Nodding Ladies' Tresses  
 Meadowsweet  
 Lesser Stitchwort  
 Skunk Cabbage  
 Dandelion  
 Starflower  
 Red Clover  
 White Clover  
 Common Cattail  
 Early Low Blueberry  
 Corn Speedwell  
 Cow or Tufted Vetch  
 Marsh Blue violet  
 Lance-leaved Violet  
 Wild White Violet

GRASSES and SEDGES and RUSHES

*Agropyron repens\**  
*Agrotis alba*  
*Agrostis gigantea*  
*Alopecurus sp.*  
*Anthoxanthum odoratum\**  
*Bromus ciliatus\**  
*B. inermis\**  
*Calamagrostis canadensis*  
*C. arex angustior*  
*C. canescens*  
*C. crinita*  
*C. debilis*  
*C. echinata*  
*C. folliculata*  
*C. lacustris*  
*C. lurida*  
*C. nigra*  
*C. pennsylvanica*  
*C. rostrata*  
*C. scoparia*  
*C. stipata*  
*C. stricta*  
*Danthonia spicata*  
*Dactylis glomerata\**  
*Dulichium arundinaceum*  
*Eleocharis tenuis*  
*E. erythropoda*  
*Festuca elatior*  
*F. rubra*  
*Gluceria canadensis*  
*G. obtusa*  
*G. striata*  
*Holcus lanatus\**  
*Hottonia inflata\**  
*Juncus effusus*  
*Phleum pratense\**  
*Poa palustris\**  
*P. pratensis\**  
*P. trivialis*  
*Scirpus cyperinus*  
*S. microcarpus*  
*S. pedicellatus*  
*Sparganium eurycarpum*

Quack Grass  
 Redtop

Foxtail  
 Sweet Vernal Grass  
 Brome Grass  
 Smooth Brome  
 Blue-joint

Poverty Grass  
 Orchard grass  
 Three-Way-Sedge

Meadow Fescue  
 Manna grass, Red or Creeping Fescue  
 Rattlesnake Grass

Velvet Grass  
 Featherfoil  
 Soft Rush  
 Timothy

Kentucky Bluegrass

Wool Grass

Great Bur Reed

rare plant - Forested Swamp Northwestern corner of Endicott property

## FERNS

*Adiantum pedatum*\*p  
*Athyrium felix-femina*  
*Dennstaedtia*  
*Dryopteris simulata*  
*D. thelypteris*  
*Matteucia pensylvanica*  
*Onoclea sensibilis*  
*Osmunda cinnamomea*  
*O. claytoniana*  
*O. regalis*  
*Polypodium vulgare*

Maidenhair Fern  
Lady Fern  
Hayscented Fern  
Wood Fern  
Marsh Fern  
Ostrich Fern  
Sensitive Fern  
Cinnamon Fern  
New York Fern  
Royal Fern  
Common Polypody

## MOSSES:

*Lycopodium* spp.  
*Polytrichum* sp.

Club Moss  
Haircap Moss  
Sphagnum Moss



# Appendix C

## Section 504 Self-Evaluation

## Appendix C

### Section 504 Self-Evaluation Accommodations for People With Disabilities

**Introduction:** This Appendix presents the required assessment of administration, employment, and program practices of the Recreation Department and Conservation Commission. It includes a site-by-site inventory of recreation and conservation properties, programs and services and transition plans where structural changes are needed.

#### **Part I: Administrative Requirements:**

1. Designation of 504 Coordinator: The Wenham Town Administrator, Steve Delaney, is responsible for Section 504 coordination.

2. Grievance Procedures: The grievance procedures for Town of Wenham Town Hall personnel, which includes the Conservation Commission, are covered under the American Federation of State, County and Municipal Employees (AFSCME) contract. The applicable section of this contract containing the grievance language is provided as Exhibit 1. Personnel procedures are currently being augmented and will address grievance procedures for the general public in dealings with the Conservation Commission. Procedures for handicapped persons will be included. Mr. Art Daignault of the "Independent Living Center of the North Shore and Cape Ann" at 27 Congress Street, Salem, MA, is an advisor to the Town Administrator for this effort.

The Wenham Parks and Recreation Department is a volunteer elected body and currently has no paid employees. It is anticipated that grievance procedures developed by the town for interface with the public will be adopted by this Department.

3. Public Notification Requirements: The Town of Wenham's Equal Employment Opportunity policy has recently been updated for inclusion in the Personnel Policy Handbook. A draft copy of this policy is included as Exhibit 2. Evidence of the Town's policy of recruiting employees on a non-discriminatory basis is provided in the Exhibit 3 advertisement for the position of Assistant Treasurer/Collector, which states that "The Town of Wenham is an equal opportunity employer". Whereas employment in Wenham is quite stable, this example, which was published several years ago, is the most recent advertisement for help. While the ad does not incorporate an auditory form and state that visually and learning impaired applicants would be considered, these factors will be addressed in the future.

4. Participation of Individuals with Disabilities: Bruce Blanchard, the current Water Department Superintendent, reviewed and critiqued this 504 Self Evaluation.

## **Part II: Program Accessibility**

**A. Facilities/Properties:** The following recreation/conservation areas are included in this inventory:

Carbarn Lot, Main Street  
West Wenham Recreation Area  
Pleasant Pond Beach, Pleasant Street  
Pingree Park, Main Street  
Recreation Center, Union Street, Hamilton  
Williams Conservation Land, Hull Street  
Reynolds/Proctor Conservation Land, Larch Row  
Conservation Office, Wenham Town Hall

The first five properties on this list are active recreation sites for which a Facility Inventory has been completed. The Inventories are attached in Exhibits 4 through 8, along with those portions of the Access Survey Sheets which are relevant to each site. Each Exhibit also includes a Transition Plan.

Concessionaires do not operate on any of the Town recreation properties.

The last three properties on the above list, summarized below, are under the jurisdiction of the Conservation Commission, but are not considered recreation sites.

Williams Conservation Land (Hull Street): This site contains 11.5 acres of wooded upland and wetlands with frontage on Hull Street. There are no facilities or marked trails at this site.

Reynolds/Proctor Conservation Land (Larch Row): This site contains 34 acres, mostly open fields with some forest and with frontage on the Miles River. The site is leased for farming during the growing season. There are no trails or other improvements; however, the site is open to residents. Parking for two cars is available in a small gravel area on Larch Row, and parking along the road is also available. There are no plans for recreational improvements at this site.

Conservation Commission Office (Wenham Town Hall): While the Conservation Commission office, located on the second floor of the Town Hall, is not presently accessible, all public meetings are advertised as having the capability of meeting in an accessible location. When the need arises, an alternative handicapped-accessible meeting place is used. In the event that persons with disabilities have business with the Conservation Commission during Commission office hours, the Conservation Coordinator makes arrangements to meet in an accessible location.

The May, 2000, Wenham Town Meeting approved funding for an architectural study of the Town Hall to make this building handicapped accessible, as well as defining other modernization actions. Lack of handicapped access to the conservation office will be remedied as part of the Town Hall upgrade.

#### **B. Recreational Programs:**

The only Wenham recreation area used for Parks and Recreation programs is Pingree Park. The Hamilton-Wenham Parks and Recreation Department is responsible for maintaining the playing fields and play areas. Private groups that use Pingree Park, such as Little League and Youth Soccer, apply to the Parks and Recreation Department for permission to use the facility.

The Department Director is responsible for assuring that any handicapped needs are met. Our Director is very sensitive to providing for special needs residents both from the standpoint of complying with the law and fulfilling our moral obligation. Department policy is to provide access to programs as special needs arise. For instance, aides will be employed as required to assist those in need with activities at the Park, as well as for indoor activities at the Recreation Center.

### **Part III: Employment Practices:**

The details of Town policies regarding recruitment, grievance procedures and equal opportunity employment can be found in Exhibits 1, 2, and 3.

#### **1. Recruitment**

##### **A. Job Announcements**

Job announcements include a non-discrimination statement (Exhibit 3). Announcements are posted in Town Hall and will be posted in the adjacent Town Library for handicapped access. Announcements in auditory form will be incorporated in future advertisements.

##### **B. Job Interviews**

Job interviews address the applicant's qualifications for the job and are conducted under the EEO guidelines (Exhibit 2).

#### **2. Personnel Actions**

Wenham has about 65 employees, of which 30 are part-time. Wenham has only one employee with a disability, the Superintendent of the Water Department.

#### **3. Leave Administration**

In accordance with federal law, drafts of policies for Family and Medical Leave and Small Necessities Leave have been submitted to the selectmen for approval. Both of these policies will allow equal participation for employees with disabilities.

4. Training

Internships are offered on a non-discriminatory basis in those departments where such assignments are feasible. Training sessions are held in an accessible location.

5. Tests

Wenham has not used screening exams or other tests as part of the hiring process since most entry positions have been filled by applicants with previous experience. Tests, if employed, will concentrate on essential job requirements and will be in accordance with EEO policy (Exhibit 2).

6. Medical Examinations/Questionnaires

Medical examinations are required only after conditional employment offers are made. Wenham does not use medical history questionnaires in connection with employment offers.

7. Social/Recreational Programs

Employee social/recreational programs are scheduled at accessible locations.

8. Fringe Benefits

Employees with disabilities are given the same fringe benefits as non-disabled employees.

9. Collective Bargaining Agreements

Collective bargaining agreements do not limit participation of qualified employees with disabilities.

10. Wage and Salary Administration

Employees with disabilities are offered the same compensation rates as non-disabled employees.

## APPENDIX C

### Exhibit 1

#### AFSCME

#### **ARTICLE 5. Grievance Procedure**

Any grievance which may arise between the parties hereto shall be presented in the following manner and order and within the time limits set forth herein. A grievance is defined as a claim concerning the meaning or application of any of the specific provisions of this Agreement.

Informal Step: Before initiating any formal grievance pursuant to this article, the parties are encouraged to make informal efforts to resolve disputes.

Step 1: An employee, or a representative of the Union, shall take up the grievance with the employee's Department Head within fifteen (15) calendar days of the date of the grievance or of the date the employee first knew or should have known of its occurrence. Such grievance shall be submitted in writing, and shall set forth a summary of the facts relied upon, the section of the ----- Agreement allegedly being violated, the remedy sought, and shall be signed by the grieving employee and/or a duly designated Union official. The Department Head shall attempt to adjust the matter and shall respond in writing to the employee and/or Union within fifteen (15) calendar days after the submission of the grievance to him or her in Step 1. For purposes of this article, the Town Administrator shall be deemed the Department Head for the Conservation Coordinator and the Assessor's Assistant. Any grievance related to the discharge or disciplinary suspension of an employee may be initiated at Step 2.

Step 2: If the grievance has not been settled in Step 1, it shall be presented to the Town Administrator within fifteen (15) calendar days after the Department Head's response is due or received, whichever is earlier. Such presentation shall be submitted in writing. The Town Administrator or his or her designated representative, shall meet with the Union within twenty (20) calendar days from the time the grievance is presented to him or her, and shall answer the grievance

## APPENDIX C

### Exhibit 1

#### AFSCME

in writing within twenty (20) calendar days from the meeting. For any grievance for which the Town Administrator is the step 1 Department Head, the grievance shall proceed directly from step 1 to step 3.

Step 3: If the grievance remains unresolved, either party may, by written notice to the other, submit the grievance to arbitration. So that the Union's Executive Board may have the opportunity to meet to make a decision as to bringing a matter to arbitration, the parties agree that notice of arbitration may be served within thirty (30) calendar days after the reply of the Town Administrator is due or received.

The arbitrator shall be selected and the arbitration proceedings shall be conducted in accordance with the Voluntary Labor Arbitration Rules of the American Arbitration Association. The arbitrator's authority shall be limited to matters involving the interpretation and application of the specific provisions of this Agreement. The arbitrator may not modify, amend, delete or add to the terms of this Agreement. Within the limits of his or her authority, the decision of the arbitrator, to the extent permitted by law, shall be final and binding. The expenses of such arbitration shall be shared equally by the Employer and the Union.

No employee shall have the right to require arbitration, the right being reserved to the Union and the Employer exclusively.

Failure to present a grievance within or advance it in accordance with any of the time limits specified shall be deemed as a waiver of the grievance. Failure of the Department Head or Town Administrator to reply to a grievance within the time limits specified shall constitute a denial of the grievance entitling the grievant to advance to the next step.

The time limits contained herein may be extended by mutual agreement of the parties in writing. Consent to such agreement shall not be unreasonably withheld.

## APPENDIX C

### Exhibit 2

#### Equal Employment Opportunity Employer

3. As part of work performance evaluations, each supervisor's efforts and results in the area of equal employment opportunity will be considered.

#### Communication

The Town of Wenham's commitment to equal opportunity will be communicated to all managers, supervisors, and staff members, and to recruiting agencies, subcontractors, prospective staff members, as well as generally to outside individuals and organizations with whom the Town does business or maintains other relationships.

## **2-2 Recruitment and Selection**

### **1. Purpose**

To define the policy of the Town of Wenham concerning employment recruitment.

### **2. Policy**

The policy of the Town of Wenham is to achieve equal employment opportunity in employment and selection, consistent with the equal employment opportunity policy detailed in section 2-1 above. This policy applies to all full-time and regular part-time employees

### **3. Application**

This policy shall apply to all positions covered by the appointing authority of the Board of Selectmen, and to other non-elected positions.

### **4. Procedure**

A. Boards, committees, commissions or departments having a vacant position to be filled must complete a Personnel Requisition Form and forward it to the Town Administrator (T.A.) with the necessary approvals and an updated/current job description containing the necessary qualifications. Requisition approval must include the signature of the department head or chairman of the board, committee, or commission.

B. Upon receipt, the T.A. will prepare a job posting notice when appropriate for posting and action in accordance with applicable collective bargaining agreements or an internal position vacancy notice for non-union positions of 20 hours or more per week on a permanent and regular basis for application by current permanent employees.



## APPENDIX C

### Exhibit 2

#### Equal Employment Opportunity Employer

##### Policy Statement:

1. It is the policy of the Town of Wenham to provide equal employment opportunity to all staff members and applicants for employment, in accordance with applicable federal and state laws, without regard to race, color, religion, sex, age, national origin, physical or mental handicap, sexual orientation, or status as a disabled or Vietnam era veteran of the United States Armed Forces.
2. It is the policy of the Town of Wenham to further its commitment to equal employment opportunity by recruiting, hiring, compensating, training, and promoting staff members in all job classifications without regard to race, color, religion, sex, or age (except when sex or age is a bona fide occupational qualification), sexual orientation, national origin, physical or mental handicap, or status as a disabled or Vietnam era veteran.
3. The Town of Wenham will review promotion decisions to ensure that only valid requirements are used when evaluating and selecting staff members for promotional opportunities.
4. The Town of Wenham will systematically review its personnel actions and general work environment to continue to ensure that Town practices and atmosphere are free from discrimination with regard to race, color, religion, sex or age (except where sex or age is a bona fide occupational qualification), national origin, physical or mental handicap, sexual orientation, or status as a disabled or Vietnam era veteran. In so doing, the Town will review: employment and employment advertising, compensation and benefits, transfers, job status changes, terminations, working conditions and facilities, staff communications, Town sponsored training, and education, as well as social and recreational programs.

##### Control and Responsibility

1. The Town Administrator has overall responsibility for implementation of the Equal Employment Opportunity Program. His/Her responsibilities include monitoring compliance and periodically reporting to the Board of Selectmen.
2. Daily responsibility for carrying out the Equal Employment Opportunity Policy rests with all supervisors, who should familiarize themselves with these policies.

## APPENDIX C

### Exhibit 2

#### Equal Employment Opportunity Employer

1. If the appropriate supervisory personnel decide not to select any internal applicant, or if the position is not subject to posting, the T.A. will

recruit candidates by drafting employment ads. Upon application for a position, the T.A. will advise applicants of openings and the minimum qualifications necessary for consideration. The T.A. will inform the applicants of the pay practices, employee benefits, and general working conditions in the Town and departments, especially where openings exist.

2. The T.A. will receive and screen all applicants and designate qualified applicants to the appropriate department head or chairperson of the board, committee or commission for interview based on the information in the Personnel Requisition, and the updated job description. The department head or chairperson will have the option to review all applications and confer with the T.A. regarding minimum qualification equivalencies.

3. The T.A. will have the option to monitor and be present at interviews thus providing consistency in the selection process on a Town-wide basis.

C. The person having responsibility and authority for hiring shall give the T.A. the name of the candidate selected for hire after which the hiring authority, or the T.A., at the request of the hiring authority, will check the applicant's references.

D. Upon receipt of favorable reference checks, the hiring authority shall complete a Personnel Action Form and forward it to the T.A. with the necessary approvals. Such approval must include the signature of the department head or chairperson of the board, committee or commission.

E. Candidates whose reference checks prove satisfactory shall be sent an offer or confirmation of offer of position in writing by the T.A. upon receipt of a personnel Action Form from the hiring authority. The offer will be contingent upon the satisfactory completion of a pre-placement physical examination. The written offer shall notify the candidate of the starting date and rate of pay. In the event that the preferred candidate declines the offer of employment, the department head or chairperson of the board, committee or commission shall be advised and the appropriate parts of the forgoing procedure be repeated.

F. Upon commencement of employment, the new employee shall report to the T.A. to complete the required payroll enrollment forms, as well as optional benefit enrollment applications. This step must be completed within the first week of employment in order for the new employee to be processed for the payroll

# APPENDIX C

## Exhibit 3

### Example of Advertisement for Employment

6 CLASSIFIED THURSDAY, AUGUST 27, 1998 ESSEX COUNTY NEWSPAPER

420 Professional 420 Professional 420 Professional 420 Professional 420 Professional

#### PC DESKTOP SUPPORT ANALYST

This individual will participate in a team-oriented PC IT infrastructure configuring and troubleshooting both Windows 95 and Windows NT workstations, PC desktop and laptops in a manufacturing/engineering environment. This position is the front line support function for the IT department.

**Major responsibilities:** PC hardware and software configuration which includes loading, configuring, testing and troubleshooting of both hardware and software; software installations include Windows 95 and Windows NT operating systems as well as Microsoft Office, Winfax, Groupwise and other applications as business requires; quality documentation of installation and configuration will be necessary to ensure consistency, quality performance, and effective training; daily operations such as backup and printer management; application support for end users of installed software is required as well as training on the use of all installed applications; and support for remote access sales team requires a fundamental understanding of telecommunications applications and troubleshooting skills.

**Requirements:** 2 years experience engaged in the setup, installation, configuration and troubleshooting of PCs; knowledge of the installation of Windows 95 and Windows NT Workstation 4.0 including connectivity services; experience installing and configuring a variety of PC application software; and experience with Windows NT, Windows 95 client, remote access, Microsoft Office 95. This individual should be self-motivated and people-centric with excellent communication and analysis skills and committed to achieving the highest level of end-user support. KONA Corporation is an internationally recognized company engaged in the design and manufacture of specialty mold components for the plastic injection molding industry. KONA offers a challenging opportunity with a competitive salary and benefits program including 401(k).

Please send resume in confidence to  
Attn: Gail Warren.

**KONA**  
DYNISCO HOT RUNNER GROUP

P.O. Box 1227 • (978) 281-3810 ext.154  
35 Emerson Avenue • Gloucester, MA 01930  
EOE AA

#### ASSISTANT DIRECTOR

We are seeking a responsible for sales presentation accounts. You will be our ad manager in a team successful candidate for new business development and classified, and

The assistant director manage a department the sales staff newspapers and

Candidate will be aggressive self-starter years newspaper experience. The prior experience with a small to medium customer service communications position. We seek close on new business Preprint, TMC and

We offer a competitive commissions and

Send cover

Join

Director of  
Essex County  
32 Dunham Rd

We are an equal  
and encourage all  
All offices of Essex  
County

#### SECRETARY

##### For Entry Level Sales Support

CILS is a world-leading manufacturer of durable labeling systems for the electronic and laboratory industries. We market our products worldwide from our head office in England, our subsidiary in France and international distributors.

Our US offices are conveniently located at the Cummings Center in Beverly, and we seek a self-motivated, enthusiastic, smart individual to meet the challenges of our North American expansion program.

The ideal candidate should possess the following skills:

- Fast, accurate WP typing and database usage

- Numerate, detail-minded, with excellent organizational abilities
- Excellent communication skills (both written and oral) and good telephone manner
- The ability to work as an integral part of a small, professional team

CILS offers an excellent compensation and benefits package. Further, a strong "promote from within" policy provides excellent advancement opportunities.

For immediate attention, please send or confidentially fax your resume to:



Oliver Stockton, VP Operations  
Computer Imprintable Label Systems  
100 Cummings Center - 465E  
Beverly, MA 01915  
Tel.: 978-921-8877 Fax: 978-921-5062

#### TOWN OF WENHAM Assistant Treasurer/Collector

The Assistant Treasurer/Collector is a full-time position with current operational hours being 32.5 per week. This position reports directly to the Treasurer/Collector. Responsibilities will include, but not limited to assisting the Treasurer/Collector with: the day-to-day collection of all Town taxes and Departmental Payments, weekly payroll input and distribution, light Human Resource issues and daily interaction with public and other Town Offices.

Bookkeeping and computer experience is essential. Knowledge of Municipal Collecting and Accounting Practices is preferred, but not required. This position has a current pay range being (\$18,590-\$23,966) annually.

This position is part of a new Collective Bargaining Unit, with benefits subject to ongoing negotiations.

Reply in confidence to Christopher T. Coleman, Treasurer/Collector, Town Hall, 138 Main St., Wenham, MA 01984, with attention to: Assistant Treasurer/Collector Position. Resumes must be received by Sept. 4, 1998. The Town of Wenham is an equal opportunity employer.

#### LOAN SERVICING COORDINATOR

Danvers Savings Bank

#### HERE WE

Work for one of the  
Storage & Distribution  
following full-time positions

- Operations
- Customer Service

## APPENDIX C

### EXHIBIT 4

#### Carbarn Lot

The Carbarn Lot is the former site of a barn that housed trolley cars. The lot contains about half an acre and is a flat, well-mowed grassed area with a few trees and a bench. There are no structures or athletic facilities on the lot.

#### SITE ACCESS:

The Carbarn Lot is bounded by asphalt sidewalks along Main and Arbor Streets and is directly accessible from either sidewalk.

#### PARKING:

There is no parking lot on site. Curbside parking is available along Arbor and Main Streets. A parking lot is available behind the Town Library and Town Hall directly across Main Street. A sidewalk ramp is available for access to the Main and Arbor Street sidewalks.

#### BUILDINGS:

None

#### REST ROOMS:

None

#### TRANSITION PLAN:

Not required

## APPENDIX C

### EXHIBIT 5

#### West Wenham Recreation Area

The West Wenham Recreation area is on the west side of Route 97 and contains about 3.2 acres of woods and an open field.

#### SITE ACCESS:

The recreation site is only accessible from the parking area by foot over a 90-foot long dirt/gravel road with 10% uphill grade. The road surface and grade do not permit wheelchair access.

#### PARKING:

Parking is provided on a sloped area which will accommodate 2-3 cars.

Handicapped Spaces: None

Required Handicapped Spaces: None

#### FACILITIES:

The site contains one asphalt tennis court and a half-size asphalt basketball court.

One picnic table with attached benches and a free-standing bench are adjacent to the courts.

Beyond the courts is an open field approximately one acre in size. The field is slightly hilly and would not be suitable for organized sports such as softball, football, or soccer. The field could be suitable for a "pickup" game of softball or the like.

#### REST ROOMS:

None

#### TRANSITION PLAN:

Because this site is quite rough and has limited facilities, no transition plan is proposed. Similar recreational facilities are available elsewhere in town that could be more efficiently adapted for handicapped-access. Tennis courts are available at Pingree Park, and a handicapped-accessible basketball court is available at the Hamilton-Wenham Recreation Center.

## APPENDIX C

### Exhibit 6

#### Pleasant Pond Beach

Pleasant Pond Beach is located on the western shore of Pleasant Pond and is under the jurisdiction of the Parks and Recreation Department. Because the pond is stocked with fish each spring, it is popular with fishermen. The beach is the only public swimming site in town.

#### SITE ACCESS:

Pleasant Pond is located at the end of Pleasant Street, where the street changes from a paved street to a gravel road.

#### PARKING

The Beach parking area has a gravel surface and space for approximately 18-20 cars. There is no handicapped space designated. One space is required to meet the standard.

#### FACILITIES:

The parking area is hard-packed gravel. From the parking area, there is a 25-foot long path to the beach. This path is about 30 inches wide, is bordered with landscape timbers and has a sand surface.

The swimming area is delineated with ropes and floats. Lifeguards are on duty during specified operating hours. There are no formal programs, such as swimming lessons, offered at this beach.

There is a gravel boat-launching ramp adjacent to the beach about 30 yards before the entrance to the parking lot. The ramp has a very gradual slope; however, the street is narrow at this point, and parking is not permitted. Handicapped access could be improved if a dock were installed next to the ramp along with a paved path from the road to the dock.

#### RESTROOMS:

During swimming season, July 1<sup>st</sup> through August 31<sup>st</sup>, there is one portable toilet adjacent to the parking area. It is not accessible.

## APPENDIX C

### Exhibit 6

#### Pleasant Pond Beach

#### TRANSITION PLAN:

##### Physical Obstacles

1. No designated handicapped parking space
2. Path to beach is soft sand
3. No accessibility to pond for fishing
4. No accessible toilet facility

##### Necessary Changes

1. Mark one handicapped parking space as close as possible to beach path.
2. Replace sand in path with hard surface and increase width of path to 36 inches
3. Install a dock next to launch ramp for wheel chair access to the pond for fishing.  
Dock design must meet requirements of Section 504 under "Fishing Facilities"
4. Install a path with hard surface from the parking lot to the dock

Ideally, all changes should be completed for the 2001 summer season, by the Parks and Recreation Department.

## APPENDIX C

### Exhibit 7

#### Pingree Park

Pingree Park is an 8-acre field located between Main and Porter Streets. The Park is under the jurisdiction of the Parks and Recreation Department.

#### SITE ACCESS:

The site is easily accessible through a drive-in gate at Main Street. Access from Porter Street is provided through an opening in the split rail fence along the park boundary. This opening is about 30 inches wide, and therefore not wheelchair accessible.

#### PARKING:

Inside the Main Street entrance there is space for approximately 35-40 cars in an unmarked gravel area. None of this area is designated for handicapped parking. There is on-street parking on Porter Street near the opening in the fence.

#### FACILITIES:

The major attractions at Pingree Park are 4 tennis courts, a Little League baseball field, a children's playground with swings and a slide, and a baseball field which also serves as a soccer and football field in season.

The baseball field is adjacent to the parking area and handicapped accessible. The Little League field is at the Porter Street end of the Park and is accessible by automobile over a paved road. The Little League Field is enclosed by a fence, and the gates are too narrow for wheelchair access. Moreover, the dugouts are not handicapped accessible.

The playground area lies about 100 yards from the parking area and is reached by travel over a grass area and a dirt path. The ground under the playground fixtures is beach sand. These surfaces are not wheelchair-friendly.

The tennis courts are an additional 65 yards beyond the playground area and are reached by travelling over grass and a pine needle surface. The courts are enclosed by a fence, and the gates are not wheelchair accessible.

There are several picnic tables and benches in the Park located in the area near the tennis courts and in a small pine grove near the Main Street entrance. The picnic tables and trash cans are not readily accessible by wheelchair, nor do they have back and arm rests. There are no grills or picnic shelters in the Park.



## APPENDIX C

### Exhibit 7

#### Pingree Park

There is a set of 4 swings and a slide near the Main Street parking area

#### RESTROOMS:

Restrooms are located in a building at the Porter Street entrance. See "Restrooms" survey sheet.

#### TRANSITION PLAN:

##### Physical Obstacles

1. No designated handicapped parking spaces ( 2 required)
2. No paved path to children's playground or tennis courts
3. Parking area is rough gravel
4. Picnic benches do not have back or arm rests
5. Playground area has sand base
6. Little League field and dugouts are not accessible
7. Restrooms do not meet all handicapped standards

##### Necessary Changes

1. Designate 2 handicapped parking spaces
2. Pave handicapped parking spaces and access to paths
3. Construct a paved path to playground and tennis courts
4. Investigate resurfacing of playground
5. Make a select number of picnic benches accessible
6. Make Little League field and dugouts accessible
7. Bring restroom up to standards

Ideally, all changes should be completed during the next two years by the Parks and Recreation Department.

# APPENDIX C

## Exhibit 7

### Pingree Park (cont'd)

## Restrooms

<u>Section</u>		<u>Building</u>	<u>Yes</u>	<u>No</u>	<u>Comment</u>
30	PUBLIC RESTROOM Location	<u>PORTER STREET</u> <u>SIDE OF PARK</u>			
	Doors comply with Section 27				
	Vestibules comply with Section 26.3				
30.3	5 ft. turning space measured 12 in. from the floor		✓		
30.4	At least one <u>SINK</u> :				
	a. Mounted without pedestal or legs, height 32 in. to top of rim		✓		
	b. Extends at least 22 in. from the wall		✓		
	c. Open knee space min. 30 in. width		✓		
	d. Open knee space min. 27 in. height		✓		
	e. Faucets operable with closed fist (lever or spring activated handle)			✓	
30.5	At least one <u>STALL</u> :				
	Accessible to person in wheelchair			✓	
	60 in. wide X 72 in. deep			✓	
	<u>Stall door</u> 36 in. wide			✓	No Doors
	a. swings out				
	b. self closing				
	c. pull latch				
	d. lock operable with closed fist, 32 in. above floor				
	e. coat hook 54 in. high				
	<u>Toilet</u>				
	a. 18 in. from center to nearest side wall		✓		
	b. 42 in. min. clear space from center to farthest wall/fixture			✓	
	c. Top of seat 17 in. - 19 in. above the floor				
	<u>Grab Bars</u>				
	a. on back and side wall closest to water closet			✓	
	b. 1½ in. diameter				
	c. 1½ in. clearance to wall				
	d. located 30 in. above and parallel to the floor				
	e. acid-etched or roughened				
	f. 42 in. long				

## APPENDIX C

### Exhibit 7

#### Pingree Park (cont'd)

## Restrooms

<u>Section</u>	<u>Building</u>
	<u>Yes</u> <u>No</u> <u>Comment</u>
30 <u>PUBLIC RESTROOM, continued</u>	
30.9 Toilet paper dispenser 24 in. above the floor	<input checked="" type="checkbox"/> <input type="checkbox"/> _____
30.7 One mirror set max. 38 in. to bottom (if tilted, 42 inches)	<input type="checkbox"/> <input checked="" type="checkbox"/> _____
30.8 Dispensers (towel, soap, etc.) at least one of each max. 42 inches above the floor	<input type="checkbox"/> <input checked="" type="checkbox"/> _____
COMMENTS _____	
_____	
_____	

## APPENDIX C

### EXHIBIT 8

#### Hamilton-Wenham Recreation Center

This site is located at the corner of Linden and Union Streets in Hamilton. The core of the Hamilton-Wenham Recreation Center is a gymnasium which was once part of the Hamilton Junior High School. This property is located in the Town of Hamilton and is under the jurisdiction of the Hamilton-Wenham Parks and Recreation Department. Their office is also located in this building. Because all Hamilton-Wenham recreation property located in Hamilton is inventoried in the Hamilton Open Space and Recreation Plan except this site, it is being reported here to complete the recreation survey.

#### PARKING:

There are 6 parking spaces near the entrance to the gym, 2 of which are reserved as handicapped. Parking is also available along Linden Street and around the corner on Porter Street.

#### FACILITIES:

The only facility at the Recreation Center is the basketball court with locker rooms and bathrooms. The facility is used for basketball and other indoor court games, as well as for organized youth activities such as parties and dances. Survey sheets for the Recreation Center are included.

#### TRANSITION PLAN:

Hamilton and Wenham have broken ground for a joint library to be built on the old Junior High School site. The classroom section of the building is being demolished, and the library is being built in its place. The gymnasium will remain and be upgraded to handicapped standards at the time of library construction. The responsible group is the Hamilton-Wenham Library Building Committee.

# APPENDIX C

## Exhibit 8

### Hamilton-Wenham Recreation Center (cont'd)

# Parking

Section

		<u>Yes</u>	<u>No</u>	<u>Comments</u>
23	<u>PARKING</u>			
23.4	Parking lot or garage			
	# of total spaces <u>6</u>			
	# of hp spaces <u>2</u>			
	<u>Total Spaces</u>			
	15-25			
	26 - 40			5% but not less than 2 spaces
	41 - 100			4% but not less than 3 spaces
	101 - 200			3% but not less than 4 spaces
	201 - 500			2% but not less than 6 spaces
	501 - 1,000			1.5% but not less than 10 spaces
	1,001 - 2,000			1% but not less than 15 spaces
	2,001 - 5,000			.75% but not less than 20 spaces
	5,001 or more			.50% but not less than 30 spaces
23.2	HP spaces closest in lot to accessible entrance.	<input checked="" type="checkbox"/>		
	Where hp spaces cannot be located within 200 ft. of accessible entrance, drop-off area is provided within 100 feet			
23.5	Min. width 12 ft. (or two 8 ft. with 4 ft. wide striped aisle between)	<input checked="" type="checkbox"/>		
23.7	Sign with international symbol of accessibility at each space or pair of spaces	<input checked="" type="checkbox"/>		
	Sign min. 5 ft., max. 8 ft. to top of sign	<input checked="" type="checkbox"/>		
23.9	Surface evenly paved or hard-packed (no cracks)			
	" slope less than 1:20 (5%)			
23.6	Curbside to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present (complies with 21.1)	<input checked="" type="checkbox"/>		<u>none</u>
21.1	a. Min. width 3 ft. excluding sloped sides			
	b. Sloped sides			
	c. All slopes not to exceed 1:12			
	d. Textured or painted yellow			

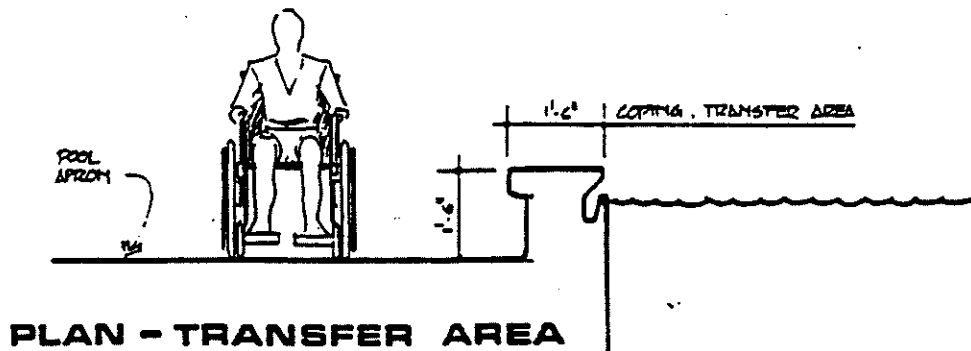
COMMENTS more parking on sides of old Jr. High.

## APPENDIX C

### Exhibit 8

#### Hamilton-Wenham Recreation Center (cont'd)

- 19.1 Recreational facilities shall include, but not limited to, courts, rinks, swimming pools, gymnasiums, stadiums, health and sports clubs, playgrounds, zoos, fairgrounds, beaches, piers, parks and campsites.
- 19.2 Swimming pools in all locations subject to these Regulations shall be accessible.
- 19.2.1 Accessibility to such pools shall be by means of any of the following:
- 19.2.1.1 A thirty-four (34) inch wide ramp with a non-slip surface extending into the shallow end of the pool. Such ramps shall have a slope not exceeding one-in-six (1:6), and shall have handrails on both sides, or;
- 19.2.1.2 A lifting device, or;
- 19.2.1.3 When the water level of the pool is above the level of the path of travel, which forms a raised coping, the coping may be utilized as a transfer area, if it is constructed eighteen (18) inches above the path of travel and is eighteen (18) inches wide minimum.



- 19.2.2 There shall be an unobstructed path of travel not less than forty-eight (48) inches wide around such pools. These paths shall have a surface that is non-slip.
- 19.3 Bowling alleys shall provide an accessible path of travel to at least two (2) adjacent lanes.
- 19.4 Locker rooms, shower facilities, and spectator areas in recreational facilities shall comply with these Regulations.

# APPENDIX C

## Exhibit 8

### Hamilton-Wenham Recreation Center (cont'd)

## Ramps

#### Section

		Yes	No	Comment
25	<u>RAMP Location</u>			
25.2	Slope maximum 1:12			
25.3	Minimum width 4 ft between handrails			
25.4	Handrails on both sides			
	Handrails at 34 in. and 19 in. from ramp surface			
	Handrails extend 12 in. beyond top and bottom			
	Handgrip oval or round			
	Handgrip smooth surface			
	Handgrip diameter between 1½" and 2"			
	Clearance of 1½" between wall and wall rail			
25.5	Non-slip surface			
25.6	Level platforms (4 ft. X 4 ft.) at every 32 ft., at top, at bottom, at change of direction			
25	<u>Handicap RAMP Location</u> <u>between rec. center + old Jr. High school</u>			
25.2	Slope maximum 1:12			
25.3	Minimum width 4 ft. between handrails			
25.4	Handrails on both sides			
	Handrails at 34 in. and 19 in. from ramp surface			
	Handrails extend 12 in. beyond top and bottom			
	Handgrip oval or round			
	Handgrip smooth surface			
	Handgrip diameter between 1½" and 2"			
	Clearance of 1½" between wall and wall rail			
25.5	Non-slip surface			
25.6	Level platforms (4 ft. X 4 ft.) at every 32 ft., at top, at bottom, at change of direction			

COMMENTS with railings but presently blocked by a  
floor to ceiling locked gate. Will up grade after  
new library renovation.

# APPENDIX C

## Exhibit 8

### Hamilton-Wenham Recreation Center (cont'd)

<u>Section</u>	<u>Yes</u>	<u>No</u>	<u>Comment</u>
20 <u>SITE ACCESS</u>			
20.1 Accessible path of travel from passenger disembarking area and parking area to accessible entrance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
20.2 Disembarking area at accessible entrance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
20.3 Surface evenly paved or hard-packed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
20.4 No ponding of water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
22 <u>WALKS</u>			
22.1 4 ft. wide minimum Slope max. 1:20 (5%); if greater, treat as a ramp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
22.2 Continuous common surface, no changes in level greater than $\frac{1}{4}$ inch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
26 <u>ENTRANCES</u>			
26.1 Primary public entrances accessible to person in wheelchair	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
26.2 Level space extending 5 ft. from the door, interior and exterior of entrance doors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
At least 18 inches clear floor area on latch, pull side of door	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
26.3 Vestibule 4 ft. plus width of door swinging into the space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
26.4 Entrance(s) on a level that makes elevators accessible	<input type="checkbox"/>	<input type="checkbox"/>	NA
26.5 Door mats less than $\frac{1}{4}$ " thick are securely fastened	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NO Slip TYPE
" " more than $\frac{1}{4}$ " thick are recessed	<input type="checkbox"/>	<input type="checkbox"/>	NA
Grates in path of travel have openings of $\frac{1}{4}$ in. maximum	<input type="checkbox"/>	<input type="checkbox"/>	NA
26.6 Objects which protrude into entranceways (signs, lights, fixtures) are at least 80 inches above the floor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
26.7 Signs at non-accessible entrance(s) indicate direction to accessible entrance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rec. Center has only one entrance building has no other entrances.
COMMENTS			

Site Access, Walks, Entrances



# APPENDIX C

## Exhibit 8

### Hamilton-Wenham Recreation Center (cont'd)

#### Section

27	<u>DOOR</u>	Location <u>Center, 1st Floor</u> <u>S.E. side</u>	<u>Yes</u>	<u>No</u>	<u>Comment</u>
27.2	Minimum 34 in. <u>clear</u> opening		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
27.4	At least 18 in. clear floor space on pull side of door		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
27.5	Closing speed min. 6 seconds		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
27.6	Maximum pressure 15 lbs. exterior, 8 lbs. interior doors		<input type="checkbox"/>	<input type="checkbox"/>	
27.7	Threshold max. 1/2 in. high, bevelled on both sides		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
27.9	Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	can exit but NOT enter
	Hardware min. 36 in., max. 42 in. above the floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
27.10	Door adjacent to revolving door is accessible and unlocked		<input type="checkbox"/>	<input type="checkbox"/>	NA
27.12	Doors opening into hazardous area have hardware that is knurled or roughened		<input type="checkbox"/>	<input type="checkbox"/>	NA
27	<u>DOOR</u>	Location <u>2 doors to gym entrance</u>			
27.2	Minimum 34 in. <u>clear</u> opening		<input checked="" type="checkbox"/>	<input type="checkbox"/>	gym doors NOT handicap accessible.
27.4	At least 18 in. clear floor space on pull side of door		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
27.5	Closing speed min. 6 seconds		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
27.6	Maximum pressure 15 lbs. exterior, 8 lbs. interior doors		<input type="checkbox"/>	<input type="checkbox"/>	
27.7	Threshold max. 1/2 in. high, bevelled on both sides		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
27.9	Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Hardware min. 36 in., max. 42 in. above the floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
27.10	Door adjacent to revolving door is accessible and unlocked		<input type="checkbox"/>	<input type="checkbox"/>	NA
27.12	Doors opening into hazardous area have hardware that is knurled or roughened		<input type="checkbox"/>	<input type="checkbox"/>	NA

ALL DOORS ARE  
DOUBLE HINGED

Doors

2 other doors open from gym to buildings with stairs

APPENDIX C

Exhibit 8

Hamilton-Wenham Recreation Center (cont'd)

Section Double doors between  
main hallway + mens' room  
27 DOOR, continued

- 27.8 Clear, level floor space extends out  
5 ft. from both sides of the door ✓ \_\_\_\_\_
- 27.10 Door adjacent to revolving door is  
accessible and unlocked \_\_\_\_\_ NA
- 27.12 Doors opening into hazardous area have  
hardware that is knurled or roughened \_\_\_\_\_ NA

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# APPENDIX C

## Exhibit 8

### Hamilton-Wenham Recreation Center (cont'd)

#### Section

28	<u>STAIRS</u> Location _____	<u>Yes</u>	<u>No</u>	<u>Comment</u>
28.2	No open risers	_____	_____	<u>NA</u>
	Nosings not projecting	_____	_____	_____
28.3	Handrails on both sides	_____	_____	_____
	Handrails 34 inches above tread	_____	_____	_____
	Handrail extends min. 1 ft. beyond top and bottom riser (if no safety hazard and space permits)	_____	_____	_____
28.4	Handgrip oval or round	_____	_____	_____
	Handgrip diameter between 1½" and 2"	_____	_____	_____
	Handgrip smooth surface	_____	_____	_____
28.5	1½ in. clearance between wall and handrail	_____	_____	_____

28	<u>STAIRS</u> Location _____	<u>Yes</u>	<u>No</u>	<u>Comment</u>
28.2	No open risers	_____	_____	<u>NA</u>
	Nosings not projecting	_____	_____	_____
28.3	Handrails on both sides	_____	_____	_____
	Handrails 34 inches above tread	_____	_____	_____
	Handrail extends min. 1 ft. beyond top and bottom risers (if no safety hazard and space permits)	_____	_____	_____
28.4	Handgrip oval or round	_____	_____	_____
	Handgrip diameter between 1½" and 2"	_____	_____	_____
	Handgrip smooth surface	_____	_____	_____
28.5	1½ in. clearance between wall and handrail	_____	_____	_____

COMMENTS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Stairs

# APPENDIX C

## Exhibit 8

### Hamilton-Wenham Recreation Center (cont'd)

#### Section

Section	Hamilton-Wenham Recreation Center (cont'd)	Yes	No	Comment
30 PUBLIC RESTROOM Location <u>FIRST FLOOR</u>				
	Doors comply with Section 27			
	Vestibules comply with Section 26.3			
30.3 5 ft. turning space measured 12 in. from the floor				
30.4 At least one <u>SINK</u> :				
	a. Mounted without pedestal or legs, height 32 in. to top of rim			
	b. Extends at least 22 in. from the wall			
	c. Open knee space min. 30 in. width			
	d. Open knee space min. 27 in. height			
	e. Faucets operable with closed fist (lever or spring activated handle)			
30.5 At least one <u>STALL</u> :				
	Accessible to person in wheelchair			
	60 in. wide X 72 in. deep			
	<u>Stall door</u> 36 in. wide			
	a. swings out			
	b. self closing			
	c. pull latch			
	d. lock operable with closed fist, 32 in. above floor			
	e. coat hook 54 in. high			
<u>Toilet</u>				
	a. 18 in. from center to nearest side wall			
	b. 42 in. min. clear space from center to farthest wall/fixture			
	c. Top of seat 17 in. - 19 in. above the floor			
<u>Grab Bars</u>				
	a. on back and side wall closest to water closet			
	b. 1½ in. diameter			
	c. 1½ in. clearance to wall			
	d. located 30 in. above and parallel to the floor			
	e. acid-etched or roughened			
	f. 42 in. long			

## Restrooms

Separate male and female restrooms.  
Neither is handicap accessible.

## APPENDIX C

### Exhibit 8

#### Hamilton-Wenham Recreation Center (cont'd)

<u>Section</u>	<u>Building</u>		
	<u>Yes</u>	<u>No</u>	<u>Comment</u>
30 <u>PUBLIC RESTROOM, continued</u>			
30.9 Toilet paper dispenser 24 in. above the floor	—	—	—
30.7 One mirror set max. 38 in. to bottom (if tilted, 42 inches)	—	—	—
30.8 Dispensers (towel, soap, etc.) at least one of each max. 42 inches above the floor	—	—	—
<u>COMMENTS</u>			

## Signs, Signals, Switches

<u>Section</u>	<u>Yes</u>	<u>No</u>	<u>Comment</u>
38 <u>SWITCHES, CONTROLS, SIGNALS</u>			
38.1 Switches and controls for light, heat, ventilation, windows, fire alarms, thermostads, etc. minimum 36 in., maximum 54 in. above the floor	—	—	—
Electrical outlets centered no lower than 18 inches above floor	—	—	—
39.3 Warning signals have <u>visual</u> as well as audible signals	—	—	—
39 <u>SIGNS</u>			
39.1 Min. 54 in., max. 60 in. above floor	—	—	—
Within 18 in. of door jamb or recess	—	—	—
39.2 Letters/numbers 1 1/2 in. high min.	—	—	—
Letters/numbers raised .03 in.	—	—	—
Letters/numbers contrast with the background color	—	—	—
<u>COMMENTS</u>			

# APPENDIX C

## Exhibit 8

### Hamilton-Wenham Recreation Center (cont'd)

#### Section

	<u>FLOORS/HALLS</u> Location _____	<u>Yes</u>	<u>No</u>	<u>Comment</u>
29.1	Each story one common level or ramped	—	—	_____
29.2	Floor surfaces non-slip	—	—	_____
29.3	Carpeting high-density, low pile, non-absorbent, stretched taut, securely anchored	—	—	_____
5.12	Corridor width minimum 3 ft.	—	—	_____
26.6	Objects (signs, ceiling lights, fixtures) which protrude into the path of travel minimum 80 in. above the floor	—	—	_____
36	<u>DRINKING FOUNTAINS</u> Location <u>1<sup>ST</sup> Floor</u> (Where provided at least one should comply)			<u>not handi-cap accessible</u>
36.1	Basin rim max. 34 in. above floor	✓	—	_____
	Hand operated push button or lever controls	✓	—	_____
	Spouts located near front with stream of water as parallel to front as possible	✓	—	_____
36.2	If recessed, recess min. 30" width " " recess no deeper than the depth of the fountain	—	—	_____
36.3	If no clear knee space underneath, clear floor space 30 in. X 48 in. to allow parallel approach	—	—	_____
37	<u>PUBLIC TELEPHONES</u> Location <u>Front Hallway</u> (Where provided at least one should comply)			
37.2	Highest operating part max. 54 inches above the floor	✓	—	_____
37.4	Access within 12 in. of phone, 30 in. high by 30 in in width	✓	—	_____
37.5	Adjustable volume control on headset and so identified	✓	—	_____

Floors, Drinking Fountains, Telephones

## APPENDIX C

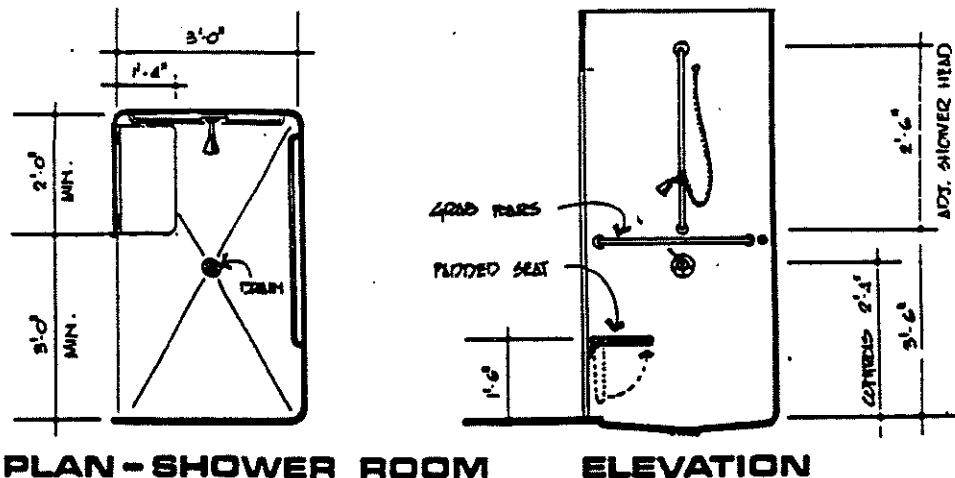
### Exhibit 8

#### Hamilton-Wenham Recreation Center (cont'd)

## SHOWER ROOMS

31

- 31.1 Where shower rooms are provided, they shall be able to accommodate both wheel-in and transfer use and shall comply with the following:
- 31.2 Stalls shall be thirty-six (36) inches by sixty (60) inches minimum, with a thirty-six (36) inch door opening.
- 31.3 Floors shall be pitched to drain within the stall at the corner farthest from the entrance. Floors shall be carborundum, grit-face tile, or other non-slip surface.
- 31.4 Controls: Showers shall operate by a single lever with a pressure balance mixing valve, and all controls shall be located on the center wall adjacent to the hinged seat. Shower heads attached to a flexible metal hose with a wall mounting adjustable from forty-two (42) inches to seventy-two (72) inches above the floor line shall be provided.
- 31.5 Seat: A hinged, padded seat shall be provided, which is at least sixteen (16) inches deep, folds upward, is securely attached to the side wall, is set at a height of eighteen (18) inches to the top of the seat, and is at least twenty-four (24) inches long.
- 31.6 Grab bars: Two grab bars shall be provided, one thirty (30) inches long and one forty-eight (48) inches long. They shall be placed horizontally at thirty-six (36) inches above the floor line or shall be a continuous L-shaped grab bar.



- 31.7 Soap trays shall not incorporate hand hold features unless they can support two hundred and fifty (250) pounds for five (5) minutes.
- 31.8 Gang showers shall also comply with this Section except for the provisions contained in Section 31.2.

one old unused locker room left from  
Jr. High is not handicap accessible

# Appendix D

## Questionnaire and Responses



# Wenham Open Space and Recreation Survey

The Wenham Open Space Committee is conducting this survey in order to understand the needs and concerns of Wenham's citizens. The Committee will use the information to prepare an Open Space and Recreation Plan which will qualify the Town for state funding for acquisition and protection of important conservation and recreation resources.

Open spaces are public and private undeveloped lands which are important for a variety of reasons including recreation, natural resource protection, scenic qualities, and their contribution to the overall character of the town. As the town grows, open space planning will help us preserve open space while allowing development to occur that maintains the character of the town.

Please answer the following questions for your entire household:

1. How many years have you lived in Wenham? \_\_\_\_ How many people share your household? \_\_\_\_

2. What do you like best about living in Wenham?

3. Which of the following recreational areas do you use most often? (Please indicate how many times per year you use each area)

- |  |   |
|--|---|
| <input type="checkbox"/> Pingree Park                                  | <input type="checkbox"/> Car barn lot                     |
| <input type="checkbox"/> West Wenham Playground                        | <input type="checkbox"/> Pleasant Pond Beach              |
| <input type="checkbox"/> Pleasant Pond Boat Ramp                       | <input type="checkbox"/> Cedar Pond Sanctuary             |
| <input type="checkbox"/> J.C. Phillips Nature Preserve                 | <input type="checkbox"/> Ipswich River Wildlife Sanctuary |
| <input type="checkbox"/> Buker School grounds                          | <input type="checkbox"/> Center School Grounds            |
| <input type="checkbox"/> Winthrop School Grounds                       | <input type="checkbox"/> High School Grounds              |
| <input type="checkbox"/> WVIS (Tea House) tennis courts and playground |   |
| <input type="checkbox"/> Patton Park                                   | <input type="checkbox"/> Wenham Golf Course               |
| <input type="checkbox"/> Lakeview Golf Course                          | <input type="checkbox"/> Equestrian trails (ECTA)         |
| <input type="checkbox"/> Iron Rail property                            | <input type="checkbox"/> Long Hill                        |
| <input type="checkbox"/> Reynolds and Proctor Woodland                 | <input type="checkbox"/> Gordon College campus            |
| <input type="checkbox"/> School St. playground (Hamilton)              |   |
| <input type="checkbox"/> Recreation Center (Union St., Hamilton)       |   |
| <input type="checkbox"/> Other (please specify place and use) _____    |   |

4. How satisfied are you with the existing recreational areas for use by:

children?	<input type="checkbox"/> satisfied	<input type="checkbox"/> neutral	<input type="checkbox"/> dissatisfied
adults?	<input type="checkbox"/> satisfied	<input type="checkbox"/> neutral	<input type="checkbox"/> dissatisfied

5. What would increase your use of existing recreational areas?

- |   |   |
|---|---|
| <input type="checkbox"/> better parking               | <input type="checkbox"/> trail maps         |
| <input type="checkbox"/> handicapped access           | <input type="checkbox"/> better maintenance |
| <input type="checkbox"/> organized activities         | <input type="checkbox"/> benches to sit on  |
| <input type="checkbox"/> other (please specify) _____ |   |

**6. What additional open space areas would you like to see in Wenham?**

relatively undeveloped natural areas to be used for:

(please specify)

developed recreation areas to be used for:

(please specify)

**7. What is the relative importance to you of each of the following land uses in Wenham:**

(Circle the number. 1=more important, 2=neutral, and 3=less important)

land with buildings of historical/architectural interest--- 1 2 3

land with historic value ----- 1 2 3

farmland ----- 1 2 3

open space which protects water supplies ----- 1 2 3

open space which provides wildlife habitat ----- 1 2 3

open space for recreation (trails, nature study, etc.)----- 1 2 3

developed recreational sites (playgrounds, ballfields, etc.) 1 2 3

land with scenic views ----- 1 2 3

other (please specify)

**8. What residential growth policy do you favor for the town? (Please check one)**

☐ retain present lot size (40,000 sq. ft. of dry land)

☐ decrease minimum lot size

☐ increase minimum lot size

☐ cluster houses on smaller lots with adjacent open space

**9. What kind of housing would you like to see in Wenham? (Please check all that apply)**

☐ affordable/subsidized

☐ multifamily

☐ elderly

☐ clustered homesites

☐ single family

☐ scattered low-density development

**10. Should the town rezone existing residential areas for the following uses? (Please check all that apply)**

☐ commercial      ☐ business/office park      ☐ industrial

**11. Do you know what an Agricultural Preservation Restriction is?      yes      no**

**12. Do you know what a Conservation Restriction is?      yes      no**

**13. Do you have a Bay Circuit Guide to Walks in Hamilton and Wenham?      yes      no**

**14. If you have other information that you believe would be of interest to the Open Space Committee concerning specific open space areas in Wenham, please attach a second sheet of paper (for example, places where you have seen unusual wildlife, locations of trails, unusual geological features, problems with open space conditions, etc.) Your name and phone number would be helpful if the Committee needs further information.**

Please return the survey to Town Hall or Wenham Library by November 1. If you have any questions about the survey or the Committee, or if you would like to join the Committee, you may call the Conservation Commission office, 468-5526.

**THANKS FOR YOUR HELP !**

WENHAM OPEN SPACE COMMITTEE  
REPORT OF SURVEY OF OPEN SPACE AND RECREATION  
 NOVEMBER 1996 - 200 REPLIES

**1. HOW MANY YEARS HAVE YOU LIVED IN WENHAM?**

1-9	2-4	3-10	4-7	5-5	6-9	7-4	8-4	9-2	
10-7	11-2	12-5	13-2	14-1	15-5	16-3	17-2	18-4	19-3
20-12	21-4	22-4	23-2	24-5	25-4	26-4	27-1	28-5	29-6
30-6	31-1	33-3	34-1	35-5	36-4	38-3	39-1		
40-4	41-3	42-3	43-1	44-1	45-5	46-1	47-1	48-2	
50-1	55-1	57-1	58-3	59-1					
67-1	78-3	80-1	83-1	85-1	BLANK-6				

200 total

**HOW MANY PEOPLE SHARE YOUR HOUSEHOLD?**

1-16    2-67    3-24<sup>27</sup>    4-53    5-23    6-4    7-3    BLANK-8.

177

**2. WHAT DO YOU LIKE BEST ABOUT LIVING IN WENHAM?**

204 - TOWN CHARACTER, SENSE OF COMMUNITY, ATMOSPHERE

59- RURAL, COUNTRY-LIKE, HISTORIC

21 - ZONING

66 - SMALL TOWN

17 - BEAUTY, ATTRACTIVE

2 - CONVENIENCE OF CENTER AND WALKING

4 - CLEAN TOWN/CLEAN AIR

4 - AGRICULTURAL

31 - PEACEFUL, QUIET, PRIVACY, SERENITY, QUALITY OF LIFE

92 - ENVIRONMENTAL/RECREATIONAL

58 - OPEN SPACES                      9 - TREES, WOODLANDS

6 - WATER QUALITY                      6 WILDLIFE

13 - RECREATIONAL OPPORTUNITIES, PLAYGROUNDS, PARKS

60 - PUBLIC SAFETY, LOW CRIME RATE

FIRE DEPARTMENT, POLICE DEPARTMENT

41 - EDUCATIONAL

SCHOOL SYSTEM

37 - TOWN GOVERNMENT MANAGEMENT

FISCAL RESPONSIBILITY, HIGHWAY DEPT., LIBRARY, TOWN EMPLOYEES

44 - PEOPLE

28 - FRIENDLY 4 - STABLE NEIGHBORHOOD 12 - VOLUNTEERISM, INVOLVEMENT

10 - CULTURAL

MUSEUM, WVIS, GORDON COLLEGE, COMMUNITY ORGANIZATIONS

31 - LOCATION

PROXIMITY - HIGHWAYS, BOSTON, OCEAN, MOUNTAINS, TRAIN SERVICE

4 - NEGATIVES: SINCE TOWN WATER ARRIVED THE TOWN HAS CHANGED TOO MUCH.....  
NOISE FROM POLICE AND FIRE DEPARTMENTS AND LARGE TRUCKS.....  
TRAFFIC, ESPECIALLY MAIN STREET.....DISAPPOINTED IN DEVELOPMENT.....  
HEAVY TRAFFIC.....68 TRACT HOUSES TO BE BUILT, WENHAM IS LOSING  
MUCH OF ITS ATTRACTIONS AND DOING NOTHING TO COUNTERBALANCE LOSS...

3. **WHICH OF THE FOLLOWING RECREATIONAL AREAS DO YOU  
USE MOST OFTEN? (PLEASE INDICATE HOW MANY TIMES PER YEAR YOU  
USE EACH AREA)**

<u>TOTAL</u>	<u>INCLUDES</u> <u>(NO/ TIMES)</u>	<u>TOTAL</u>	<u>INCLUDES</u> <u>(NO/TIMES)</u>
121 - PINGREE PARK(85/1919)		25 - CARBARN LOT(17/446)	
22 - WEST WENHAM PLAY.(12/366)		52 - PLEASANT POND BH.(36/304)	
44 - PLEAS. POND BOAT RAMP(12/44)		54 - CEDAR POND SANT(42/597)	
31 - PHILLIPS NATURE PRES.(26/101)		74 - IPSWICH RIVER WILDLIFE(55/344)	
36 - BUKER SCHOOL GRNDS(26/910)		6 - CENTER SCHOOL GRNDS(5/471)	
26 - WINTHROP SCHOOL GRNDS(23/216)		33 - HIGH SCHOOL GRNDS(25/278)	
69 - WVIS CTS. & PLAY.(56/1261)			
76 - PATTON PARK(64/711)		22 - WENHAM GOLF COURSE(13/236)	
26 - LAKEVIEW GOLF COURSE(9/309)		16 - EQUESTRIAN TRAILS(11/395)	
63 - IRON RAIL PROPERTY(44/1000)		37 - LONG HILL(28/81)	
8 - REYNOLDS & PROCTOR WOOD.(8/19)		43 - GORDON COL.CAMPUS(35/594)	
8 - SCHOOL ST. PLAY. HAM.(4/88)			
29 - RECREATION CEN. HAM.(25/1081)			
17 - BLANK			

OTHER: 5 - BEV.SALEM WATER CANAL

2- EACH- WENHAM SWAMP, CUTLER SCHOOL GROUNDS, APPLETON FARM GRASS  
RIDES, BRADLEY PALMER, GOLF COURSE SLEDDING, WVIS SUMMER CAMP

1- EACH- WVIS SKATING AREA..... WOODED PATH OFF LARCH ROW TO  
RESERVOIR..... OWN WOODS.....TENNIS COURTS AT PINGREE..... TRAILS IN  
WEST WENHAM..... CONSERVATION LAND BETWEEN CANAL AND  
KIMBALL/MORGAN STS.....PATHS NEXT TO ROADWAYS.....WALK AND RIDE BIKE  
ON MAIN ROADS.....WALKS ALL OVER TOWN.....COMMUNITY SERVICE IN MUSIC  
WHICH AS NON-PAID VOLUNTEERS MUST BE RECREATIONAL - PATTON PARK  
BANDSTAND, FIRST CHURCH, WENHAM, METHODIST CHURCH, HAMILTON,  
BUKER GROUNDS AND GYM, GORDON CHAPEL.....

4. HOW SATISFIED ARE YOU WITH THE EXISTING RECREATIONAL AREAS FOR USE BY:

CHILDREN 127 - SATISFIED 29 - NEUTRAL 10 - DISSATISFIED 33 - BLANK

ADULTS 137 - SATISFIED 37 - NEUTRAL 7 - DISSATISFIED 19 - BLANK

5. WHAT WOULD INCREASE YOUR USE OF EXISTING RECREATIONAL AREAS?

25 - BETTER PARKING 78 - TRAIL MAPS  
3 - HANDICAPPED ACCESS 17 - BETTER MAINTENANCE  
26 - ORGANIZED ACTIVITIES 45 - BENCHES

OTHER: ACCESS CEDAR POND.....ORGANIZED SOFTBALL.....BENCHES AT CAR BARN LOT.....  
TOO MANY PARENTS LEAVE THEIR OUT OF CONTROL CHILDREN AT PLAYGROUND WITHOUT  
ADEQUATE SUPERVISION.....ADEQUATE FOR OUR USE .....  
MORE SUPPORTIVE OF YOUTH SOCCER.....SIDEWALK ON ROUTE 97'S LENGTH.....  
DEVELOPMENT OF BETTER ATHLETIC FIELDS FOR CHILDREN SPORTS PROGRAMS AS H.W.  
YOUTH SOCCER HAS PROVIDED..... ALLOWING DOGS.....POOPER SCOOPER LAW.....  
PAVED SIDEWALK ABOUT 4 FEET WIDE WOULD GIVE ACCESS TO HANDICAPPED TO BE A  
SPECTATOR AT ATHLETIC AND REC. ACTIVITIES.....  
WENHAM CHILDREN DO NOT HAVE FAIR PARTICIPATION AT PATTON PARK.....  
WALK DEVELOPED ALONG WENHAM LAKE.....  
OBJECT TO SOIL BEING REMOVED AND TAKEN OUT OF TOWN FROM WENHAM LAKE.....  
OBJECT TO PARKING, I.E., BLOCKING DRIVEWAYS AND MAIL BOXES AND PARKING ON LAWNS..  
MORE PATHS ADJACENT TO ROADWAYS FOR SAFE WALKING.....  
SICK OF PAYING HAMILTON FOR NOTHING, LOSE THE "OLD BOY" NETWORK. LET THEM DO  
THEIR THING AND WE WILL DO OURS..... PATTON PARK IS A HEALTH HAZARD,.....  
PETS ARE WELCOME!.....LEAVE THINGS THE WAY THEY ARE, MORE BENCHES ONLY INVITE  
UNDESIRABLES TO HANG OUT..... X-COUNTRY SKIING IN CEDAR POND FOR ABUTTERS.....  
ALSO DOGS ON LEASES.....BABY SWINGS AT WVIS PLAYGROUND.....BETTER ACCESS.....  
DON'T LOCK GATES IN WINTER AS THERE ARE MANY NICE DAYS WHEN I COULD TAKE  
CHILDREN TO THE PARK.....NCCP SKATING AREA..... MORE FACILITIES  
6 - AWARENESS MORE THROUGH ARTICLES IN CHRONICLE.....PUBLICITY.....PUBLIC  
AWARENESS MESSAGES HI-LIGHTING OPEN SPACES AVAIL TO PUBLIC.....  
INFO ON USE BY PUBLIC ACCESS POINTS AND PARKING.....  
4 - MAPS: OF IRON RAIL.....TRAIL MAPS SOUTH OF 128.....INFORMATION GUIDES.....  
GUIDES FOR PARKING.....  
4 - TENNIS COURTS: MAINTENANCE AT P. PARK, TENNIS COURTS SWEEPED ONCE A WEEK  
AND ROAD IN PAVED.....  
2 - BACKSTOP ON TENNIS COURT SO ONE PERSON COULD PRACTICE - THERE IS NOT ONE  
IN EITHER TOWN.....  
4 - BIKE PATHS: KNOWLEDGE OF, AVAILABILITY, AND TIMES OPEN.....  
3 - TRAILS: BETTER MARKED AND MAINTAINED.....MORE TRAILS.....TRAIL MARKERS.....  
2 - RETIREMENT .....  
13 - MORE TIME TO ENJOY THEM  
12 - BLANK

6. **WHAT ADDITIONAL OPEN SPACE AREAS WOULD YOU LIKE TO SEE IN WENHAM?**

RELATIVELY UNDEVELOPED NATURAL AREAS TO BE USED FOR: (SPECIFY)

NATURAL AREAS ZONED TO REMAIN OPEN AND WILD (PERHAPS OPEN FOR WALKING) TO REMAIN FOREVER UN-DEVASTATED BY A DEVELOPER. THIS IN PART IS WHAT THE BEAUTY OF WENHAM IS ALL ABOUT.....OPEN SPACE TURNS TO WOODLAND WITHOUT FARMING AND EXTRA CARE, BUT COSTS MUCH LESS TO MAINTAIN THAN HOUSEHOLD AND BUILDING DEVELOPMENTS DO.....

ORIGINAL HABITATS.....WALKING PATH AROUND WENHAM LAKE.....JUST OPEN FOR PEACEFULNESS, RELAXING, NOT BUSY WITH PEOPLE AND CARS.....MAPPED TRAILS (BETTER INFO ON WHAT WE'VE GOT AT TRAILHEADS).....MAINTAIN PLEASANT POND FOR SWIMMING.....USE TOWN PROPERTY OPPOSITE RICHDALE ON MAPLE STREET FOR SMALL PARK.....500' WOODED BUFFER NEXT TO 128

3 - NO MOTORIZED VEHICLES OF ANY KIND

51 - HIKING, WALKING, TRAILING, NATURE WALKING

19 - WILDLIFE SANCTUARY, VEGETATION PRESERVATION, CONSERVATION

17 - SKIING, X CTY. SKIING      4 - BIKING      5 - PASSIVE USE

3 EACH - HORSES, FARMING,

2 EACH - BIRDING, CANOEING

1 EACH - SKATING, DOG EXERCISE, CHILDREN'S ACTIVITIES, HOUSING

12 BLANK

DEVELOPED RECREATION AREAS TO BE USED FOR: (SPECIFY)

WOULD LOVE PLAYGROUND EQUIPMENT AT WEST WENHAM PARK.....

THERE IS A HUGH FIELD AT WEST WENHAM - WHAT SWEETHEART DEAL WAS THAT?.....

COMMUNITY CENTER SPACE - HAMILTON IS ALWAYS TAKEN.....

CHILDREN'S USE.....PICNIC AREA AT WENHAM LAKE ON CEDAR.....

STATE OF ART RUNNING TRACK AT ONE OF THE SCHOOLS.....SMALL PLAYGROUND/PARK IN

CLUSTER ZONE AREAS.....BIKE/JOG TRAILS ALONG GRAPEVINE, RT. 22 AND LARCH ROW.....

OPEN SPACE/FORESTRY/FARMING PROACTIVE PROGRAM TO TARGET AND RESTRICT DEVELOPMENT OF CHOICE OPEN SPACE.....

5 - KEEP AS IS, SATISFIED WITH WHAT WE HAVE NOW.....

2 - TEEN ACTIVITIES: SKATINGBLADING, ROLLERBLADING, HANGING OUT IN AREA VISIBLE, HENCE NOT REQUIRING "LIFEGUARDS" STYLE SUPERVISION, e.g., CAR BARN LOT?? COULD ASK NEWBURYPORT AND STOCKBRIDGE ABOUT THIS, THEY HAVE DONE IT.....AFTER SCHOOL...MORE OUTDOOR ACTIVITY ORGANIZED, ALSO MORE NEEDED ON WEEKENDS.....

22 - BICYCLE TRAILS/MOUNTAIN BIKING

5 - SKATING

1 EACH - SOCCER, BASEBALL, TENNIS, BALLFIELDS, GOLF, CHILDREN'S ACTIVITIES  
HOLIDAY CELEBRATIONS, i.e. FIREWORKS ON JULY 4

66 - BLANK

BOTH CATEGORIES

WOULD LOVE A SIDEWALK OR BIKE PATH ON GRAPEVINE ROAD.....

IT WOULD SEEM GORDON COLLEGE OR MR. GOURDEAU WOULD BE INTERESTED.

CHILDREN HAVE NO WHERE TO RIDE BIKES WITHOUT GOING ON TREACHEROUS GRAPEVINE ROAD.....

14 - DEVELOP NO MORE: EXISTING AND ADDITIONAL OPEN SPACE FOR HABITAT, RECREATION SPACE IS ADEQUATE, MAKE FULL USE OF IT, SUFFICIENT BUT DON'T DIMINISH, ETC.

75 - BLANK

7. WHAT IS THE RELATIVE IMPORTANCE TO YOU OF EACH OF THE FOLLOWING LAND USES IN WENHAM: (CIRCLE THE NUMBER 1-MORE IMPORTANT, 2=NEUTRAL, AND 3=LESS IMPORTANT)

#1 #2 #3 BLANK

<u>LAND WITH BUILDINGS OF HISTORICAL/</u>				
<u>ARCHITECTURAL INTEREST</u>	106	58	19	17
<u>LAND WITH HISTORIC VALUE</u>	97	72	20	18
<u>FARMLAND</u>	124	49	12	15
<u>OPEN SPACE WHICH PROTECTS</u>				
<u>WATER SUPPLIES</u>	172	9	6	13
<u>OPEN SPACE WHICH PROVIDES</u>				
<u>WILDLIFE HABITAT</u>	146	27	12	15
<u>OPEN SPACE FOR RECREATION</u>	127	38	16	19
<u>DEVELOPED RECREATIONAL SITES</u>	59	67	53	21
<u>LAND WITH SCENIC VIEWS</u>	83	57	26	34

OTHER: NEED HOUSING, NEED BALANCE, ABOVE THINGS ARE IMPORTANT BUT NOT AT EXPENSE OF DEVELOPMENT.....

PRIVATE LANDOWNERS ENCOURAGED TO KEEP THEIR LAND FROM DEVELOPMENT.....

EXORBITANT REAL ESTATE DEVELOPMENT = #4.....

SALEM/BEV. WATER BOARD CONTROLS WATER SUPPLY AREA. AND AUDUBON CONTROLS TRAILS.....

WE HAVE PLENTY.....PUBLIC GOLF COURSE 3,6 OR 9 HOLES.....AUTO RACING.....

SKATING RINK-LOVELY TO LOOK AT AND GREAT FOR FAMILIES.....

ONE PROBLEM IN SOCIETY TODAY IS THAT WE ARE OVER PROGRAMMED AND SEEM TO BE LOOSING THE ABILITY TO ENTERTAIN OURSELVES AND THE ENERGY TO GET OUT AND WORK THE LAND - NO MORE GUSSET ROAD ABOMINATIONS PLEASE.....

WISH THERE WAS A WALKING TRAIL AROUND WENHAM LAKE..... WOULD LIKE TO SEE MAP SHOWING AREAS WHERE CASUAL WALKING IS ACCEPTABLE.....STOP FURTHER BUILDING..... THE MAIN STREET WAS SPOILED BY THE MAPLES.....

8. WHAT RESIDENTIAL GROWTH POLICY DO YOU FAVOR FOR THE TOWN?

103 - RETAIN PRESENT LOT SIZE (40,000 SQ. FT OF DRY LAND)

4 - DECREASE MINIMUM LOT SIZE\*

57 - INCREASE MINIMUM LOT SIZE\*\*

54 - CLUSTER HOUSES ON SMALLER LOTS WITH ADJACENT OPEN SPACE\*\*\*

2 - BLANK

COMMENTS: \*3 - DECREASE IN SOME GIVEN AREAS TO MATCH

\*\*\*1 - INCREASE IF HOUSE IS OVERSIZED

\*\*\*1 - PROMOTE NEW ENGLAND VILLAGE CONCEPT

1 - DON'T DO MORE BUILDING

9. WHAT KIND OF HOUSING WOULD YOU LIKE TO SEE IN WENHAM?

50 - AFFORDABLE/SUBSIDIZED 14 - MULTIFAMILY

59 - ELDERLY 52 - CLUSTERED HOME SITES

127 - SINGLE FAMILY 66 - SCATTERED LOW DENSITY DEV.

12 - BLANKS (3 - "NO MORE")

10. SHOULD THE TOWN REZONE EXISTING RESIDENTIAL AREAS FOR THE FOLLOWING USES?

COMMERCIAL	21 - YES*	70 - NO
BUSINESS/OFFICE PK.	36 - YES**	71 - NO
INDUSTRIAL	8 - YES***	75 - NO
BLANK	83	

COMMENTS: \*1- A LITTLE....1 - CORPORATE HEADQUARTERS, e.g. MULLEN)

\*\* 3 - LIMITED...1 - OUTSKIRTS...1 - NEAR 128

1 - IF DONE RIGHT WOULD HELP TAXES

\*\*\* 1 - ALONG 128 AND LOW IMPACT AREAS

1 - VERY LITTLE - CAREFULLY

1 - ONLY AFTER CAREFUL CONSIDERATION OF VERY LIMITED ROADWAY AND CIRCULATION IMPROVEMENT

1 - ONLY IF ACCESSED FROM PERIPHERY

11. DO YOU KNOW WHAT AN AGRICULTURAL PRESERVATION RESTRICTION IS?

105- YES 88- NO 7- BLANK

12. DO YOU KNOW WHAT A CONSERVATION RESTRICTION IS?

135- YES 58- NO 7- BLANK

13. DO YOU HAVE A BAY CIRCUIT GUIDE TO WALKS IN HAMILTON AND WENHAM?

46- YES 148- NO 6- BLANK

14. OTHER COMMENTS:

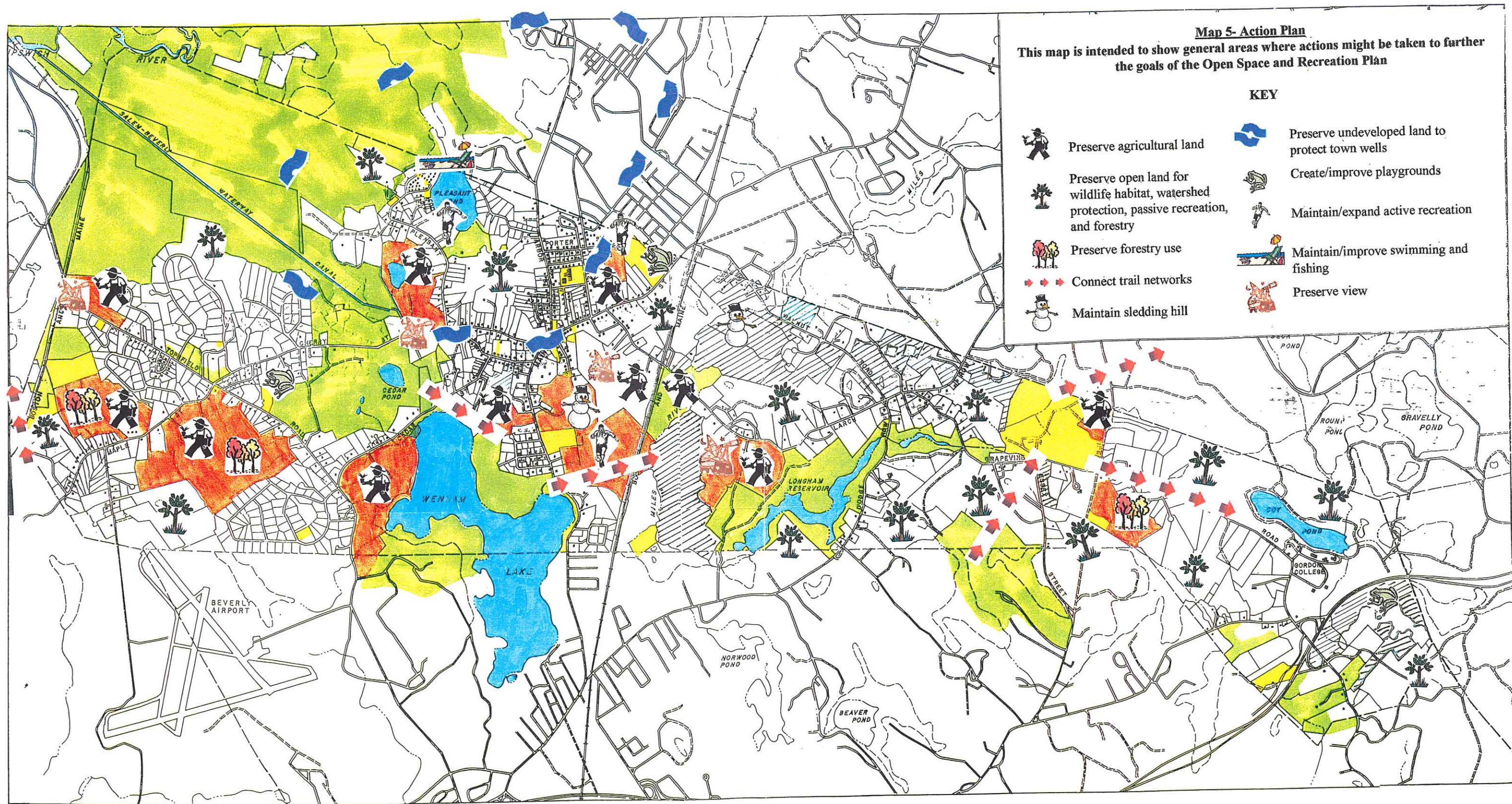
(UNSIGNED): TOWN NEEDS TO GUARD AGAINST OVER-DEVELOPMENT, e.g.. GORDON COLLEGE RT. 128 AREA!.....

WOULD LIKE TO SEE BEAUTIFICATION OF LAKE AREA...HELP TO HOMEOWNERS THERE..... PLEASE KEEP THE IRON RAIL AS PRIMITIVE AS POSSIBLE. NO MORE BLACK TOP PARKING AREAS FOR THE IRON RAIL. INITIATE A CAR PARKING POLICY..SOMETHING LIKE "NO CARS WITH LESS THAN 4 PEOPLE CAN HAVE A PARKING SPACE." PEOPLE WILL CAR-POOL TO SOCCER IF THEY HAVE TO..... PLEASE NOTE MUCH SOIL IS BEING TRANSFERRED VIA BEV. WATER BOARD TRUCKS AND OUT OF WENHAM LAKE TO BEV. AREA. I DO NOT BELIEVE THAT WE SHOULD BE HAVING OUR SOIL MOVED FROM THE LAKE. THE LAKE HAS BEEN MADE DEEPER WITH NO PERMITS POSTED.....

(SIGNED):

I HAVE LIVED IN WENHAM FOR 45 YEARS. I CAME WITH A YOUNG FAMILY BECAUSE OF GOOD SCHOOLS AND A GOOD GOVERNMENT STRUCTURE. OUR NEEDS HAVE CHANGED NOW AS OUR FAMILY HAVE LEFT FOR OTHER AREAS. WENHAM HAS LOTS OF OPEN SPACE NOW - AUDUBON, WENHAM SWAMP AND GRAPEVINE ROAD, SALEM/BEV WATER BOARD, GORDON COLLEGE (QUESTION WHETHER MORE LIKE PARSONS HILL WILL BE SPUN OFF). CONSERVATION LAND AND HAMILTON-WENHAM CONSERVATION LAND. VERY LITTLE LAND IF LEFT FOR OPEN SPACE AND WITH BETTER THAN 30 PERCENT OPEN NOW, THIS SHOULD BE ENOUGH. WHILE ATHLETIC AREAS ARE IN DEMAND, IT APPEARS TO ME THAT NEEDS ARE BEING MET. (SOCCER VERY POPULAR NOW BUT WILL IT CHANGE AS HAS FOOTBALL AND LITTLE LEAGUE). DO NOT BELIEVE TOWN SHOULD OPEN ANY LARGE AMOUNTS FOR ANY OPEN SPACE. MANY OF LARGE LAND OWNERS HAVE ALREADY INDICATED THEIR PROPERTY WILL BE DEEDED OVER TO CONSERVATION AND THEREBY RETAINING OPEN SPACE WITH ACCESS TO PUBLIC. O.M.

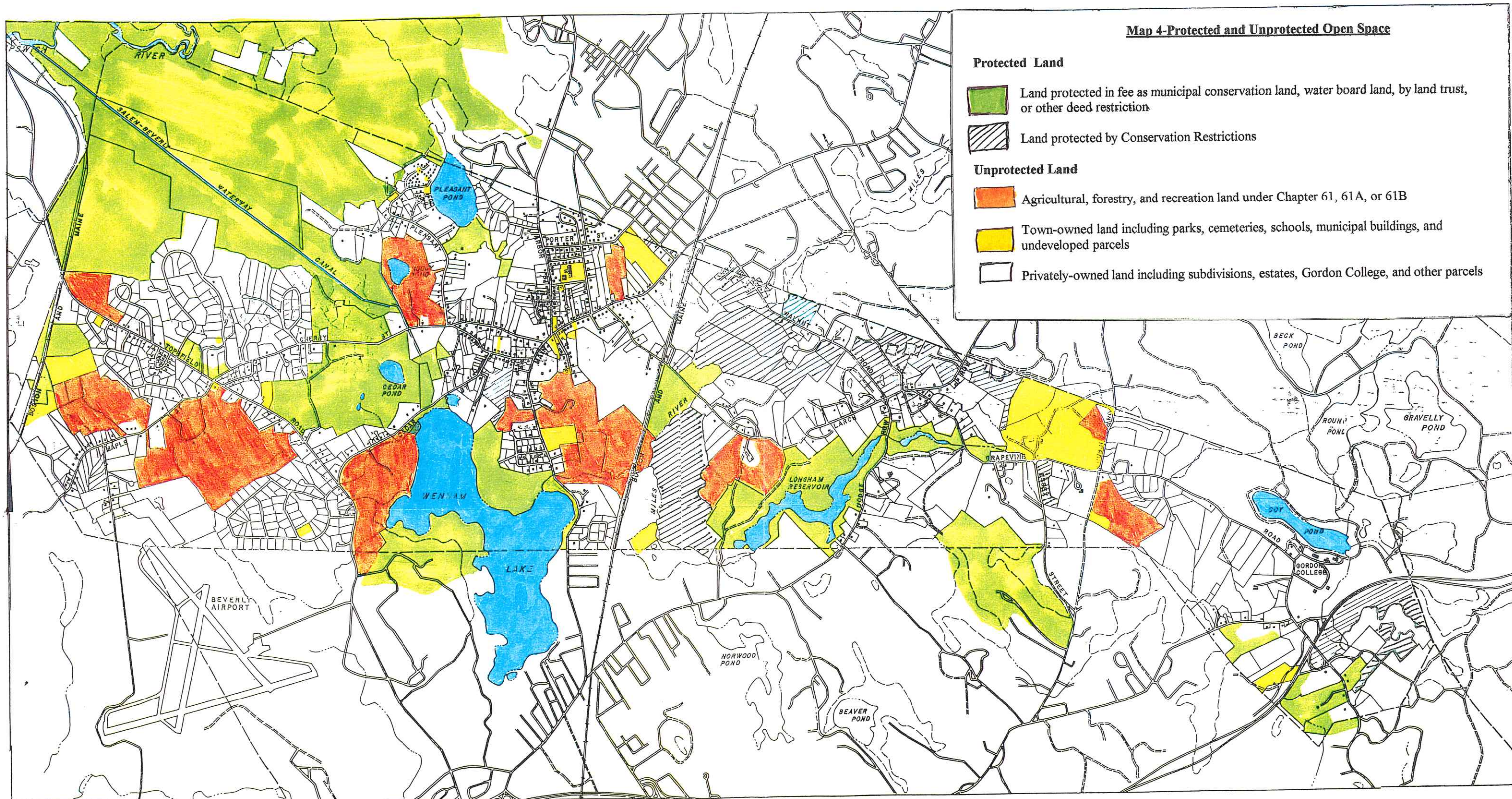




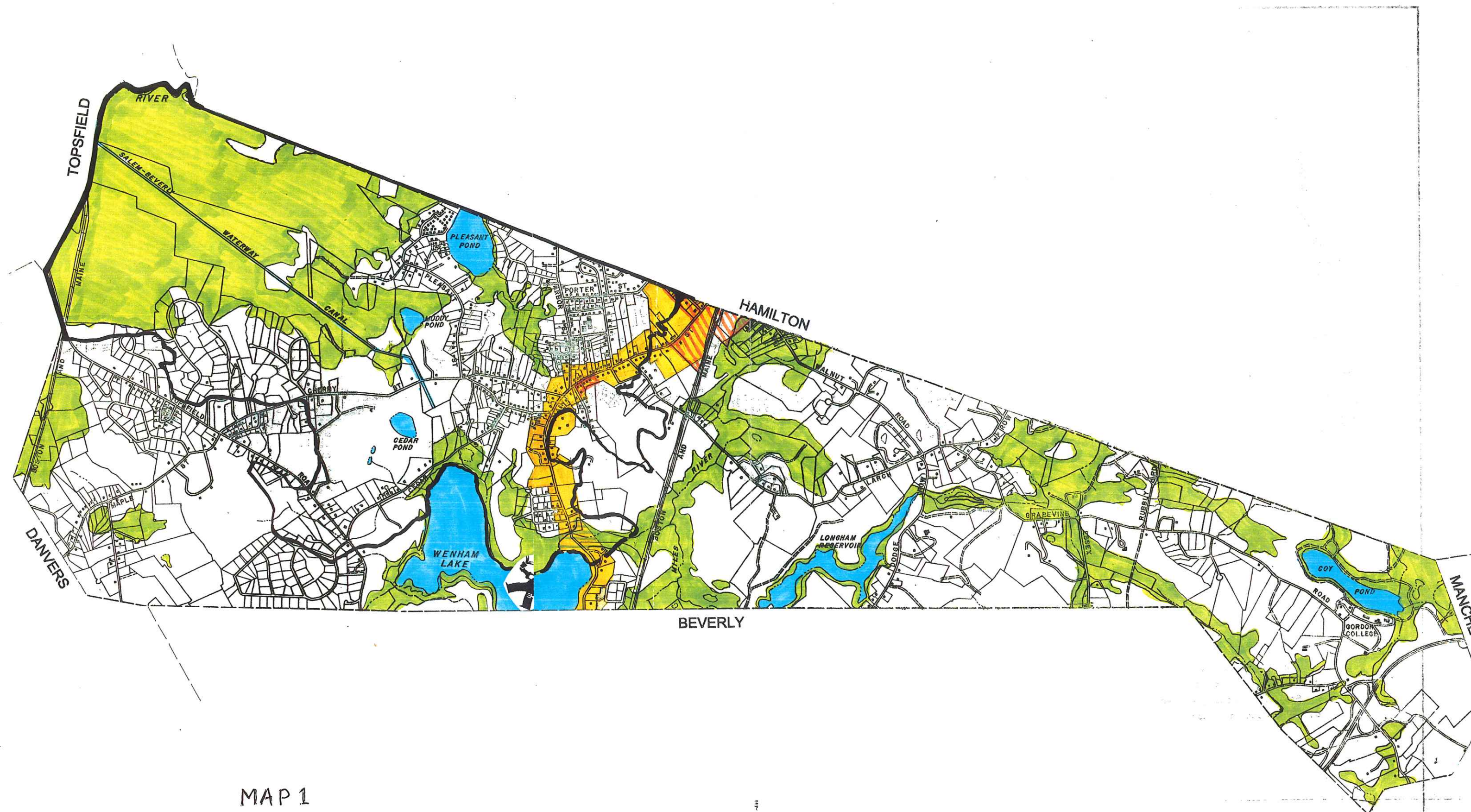


### Protected Land

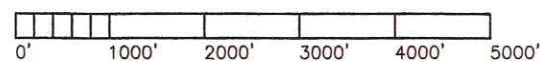
- ## Unprotected Land




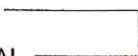


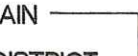






**MAP 1**  
 Town of  
**WENHAM, MASSACHUSETTS**  
 Zoning Map  
 1988











**LEGEND**

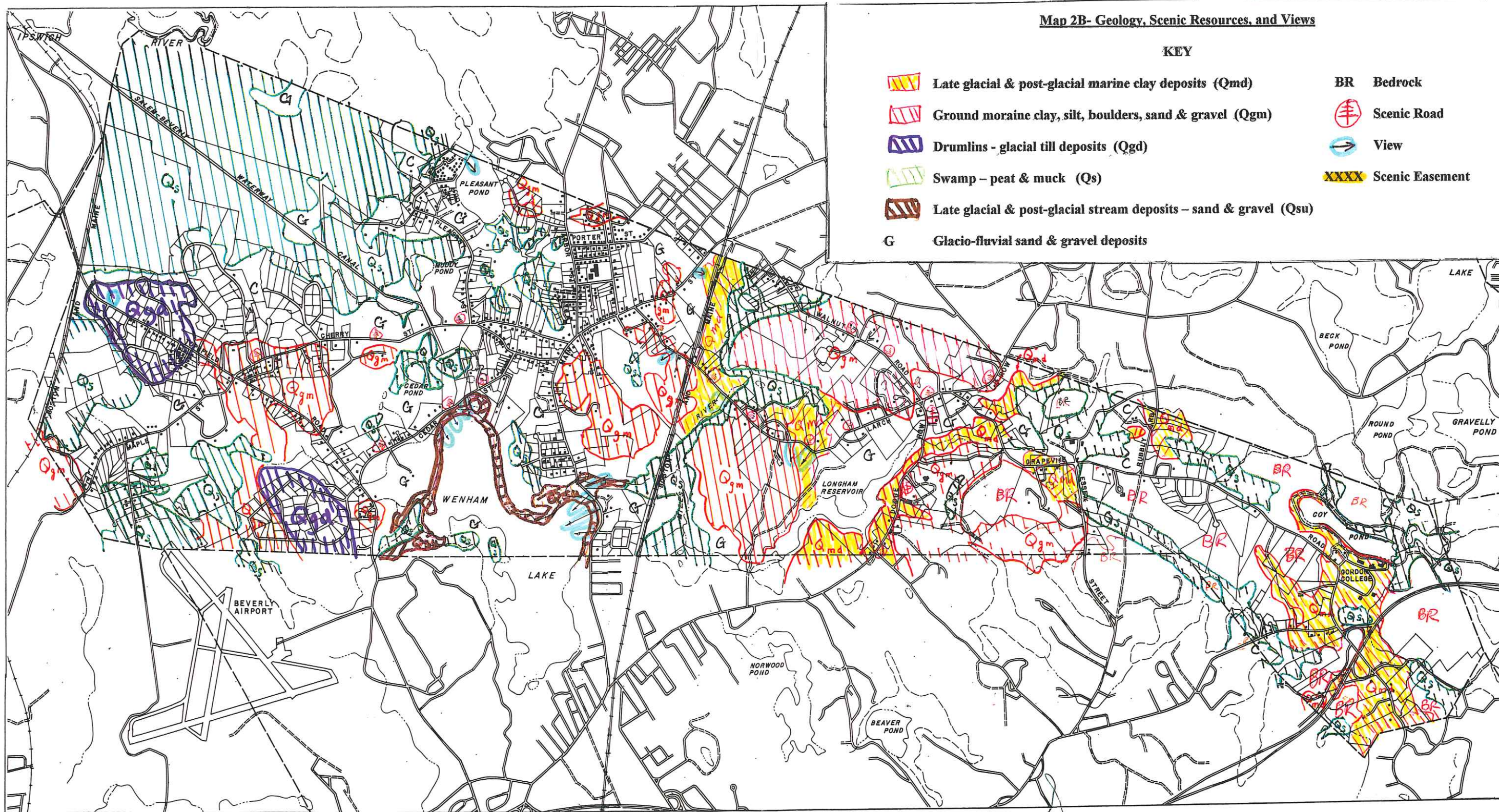
	BUSINESS		BASIC ZONING
	RESIDENTIAL		
	FLOOD PLAIN		OVERLAY ZONES ON THE BUSINESS/ RESIDENTIAL DISTRICTS
	HISTORIC DISTRICT		
	LIMIT OF AQUIFER		



Map 2B- Geology, Scenic Resources, and Views

KEY

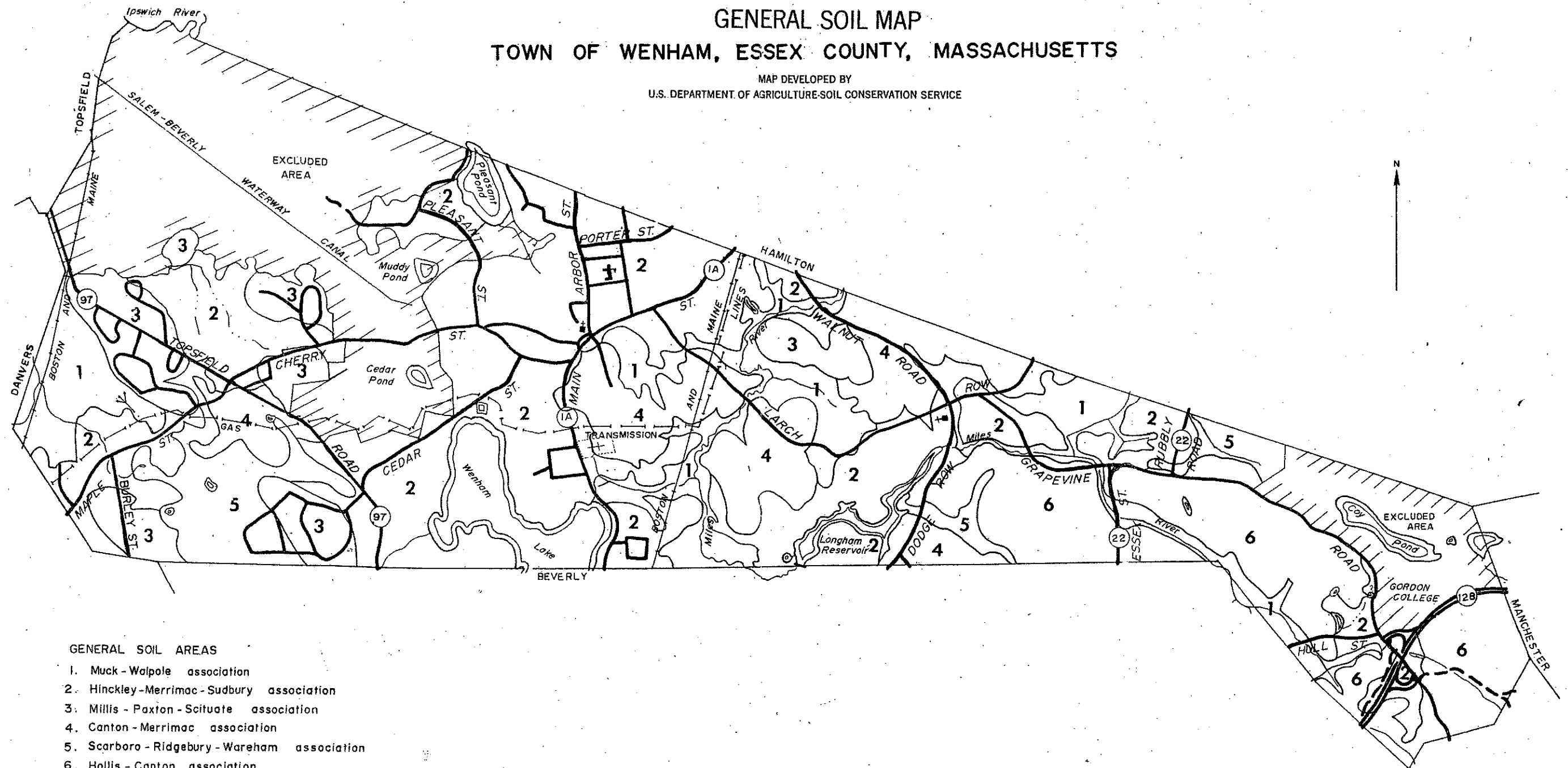
- |   |   |   |                 |
|---|---|---|-----------------|
|  | Late glacial & post-glacial marine clay deposits (Qmd)            | BR  | Bedrock         |
|  | Ground moraine clay, silt, boulders, sand & gravel (Qgm)          |  | Scenic Road     |
|  | Drumlins - glacial till deposits (Qgd)                            |  | View            |
|  | Swamp - peat & muck (Qs)  |  | Scenic Easement |
|  | Late glacial & post-glacial stream deposits - sand & gravel (Qsu) |   |                 |
| G   | Glacio-fluvial sand & gravel deposits                             |   |                 |





# MAP 2A GENERAL SOIL MAP TOWN OF WENHAM, ESSEX COUNTY, MASSACHUSETTS

MAP DEVELOPED BY  
U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE



## GENERAL SOIL AREAS

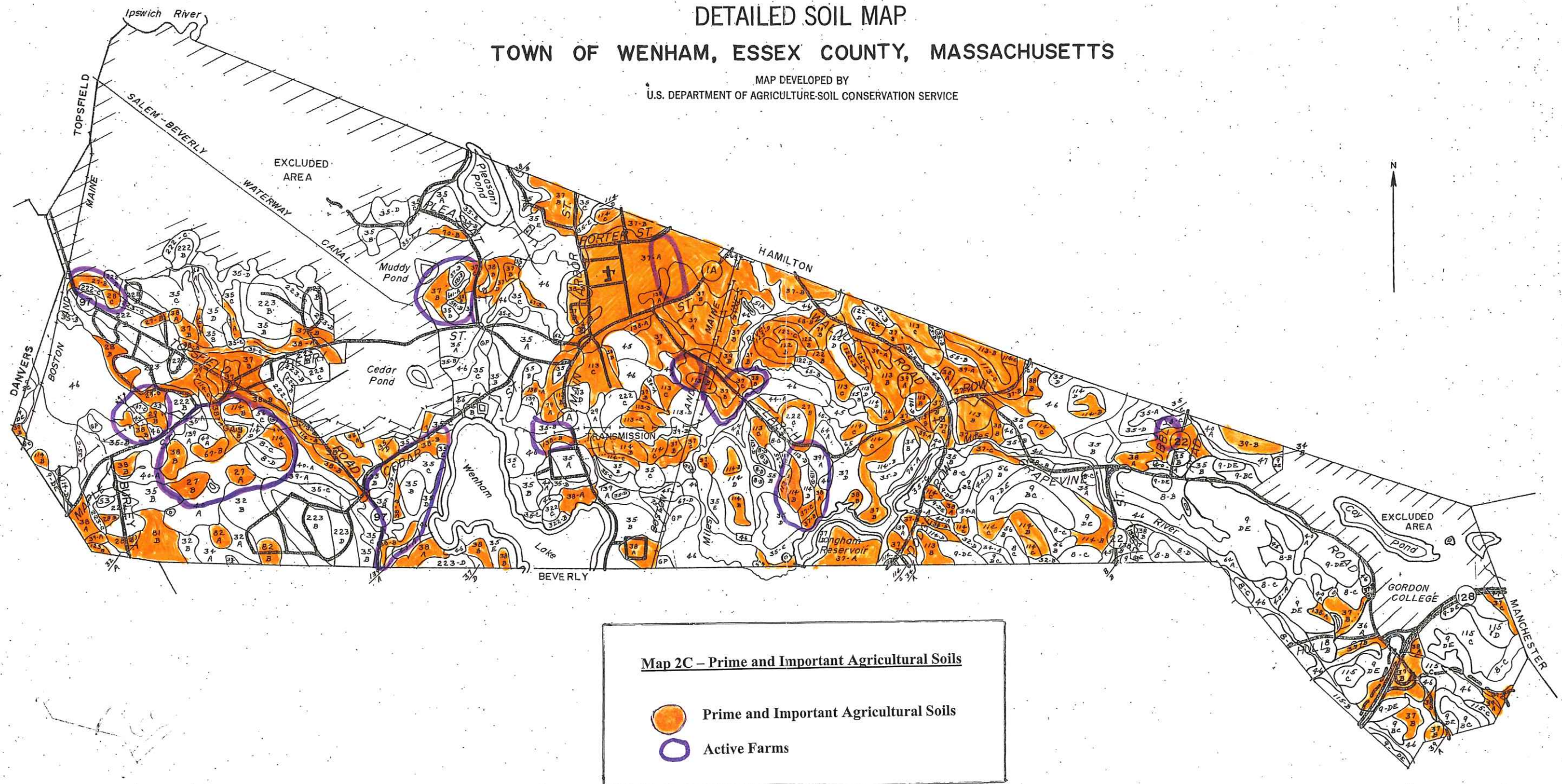
1. Muck - Walpole association
2. Hinckley - Merrimac - Sudbury association
3. Millis - Paxton - Scituate association
4. Canton - Merrimac association
5. Scarborough - Ridgebury - Wareham association
6. Hollis - Canton association

Scale 1:15840  
5000 Feet



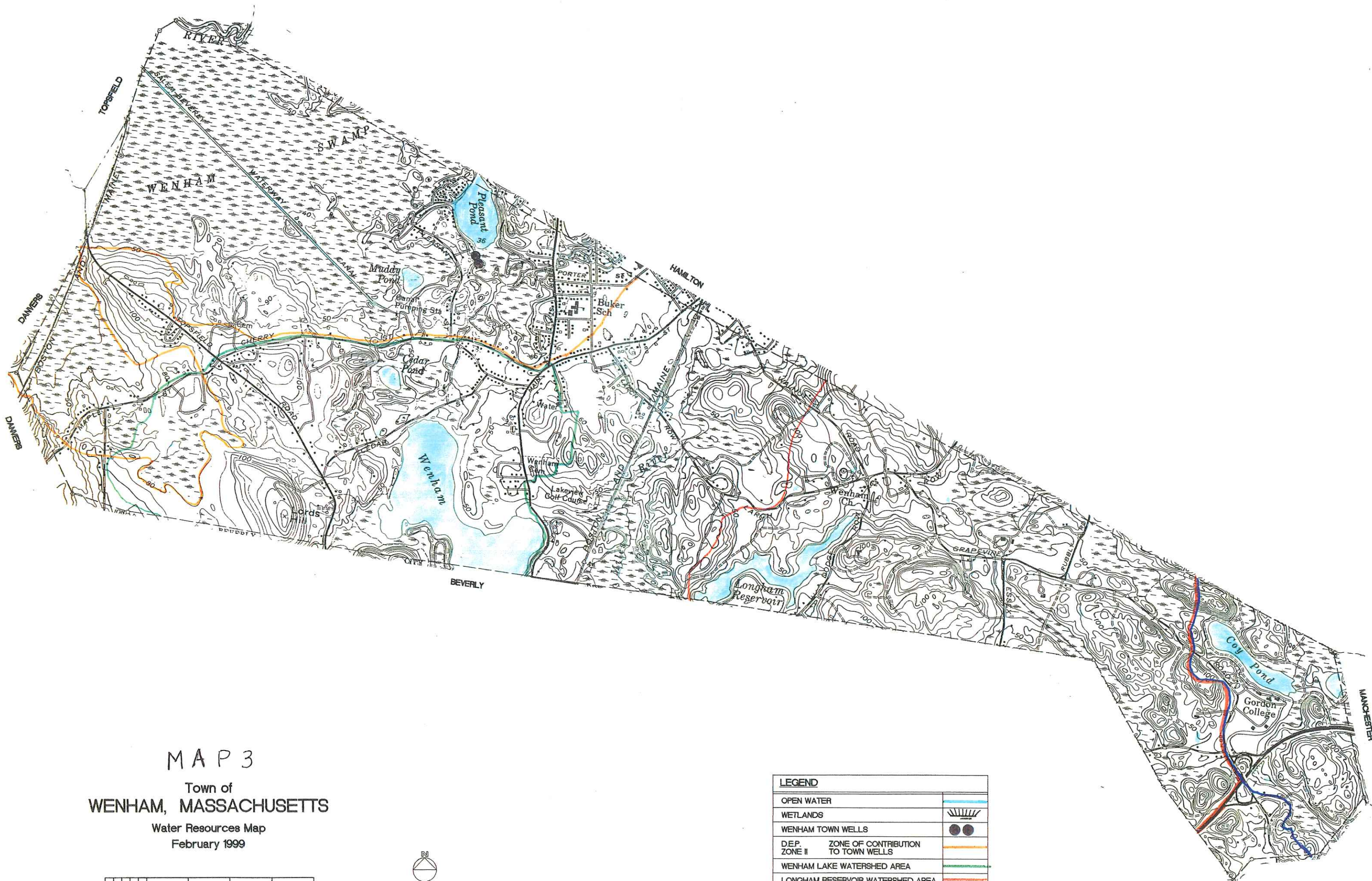
# DETAILED SOIL MAP TOWN OF WENHAM, ESSEX COUNTY, MASSACHUSETTS

MAP DEVELOPED BY  
U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE

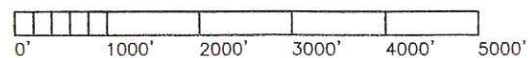


Scale 1:15840





MAP 3  
Town of  
WENHAM, MASSACHUSETTS  
Water Resources Map  
February 1999



LEGEND	
OPEN WATER	
WETLANDS	
WENHAM TOWN WELLS	
D.E.P. ZONE II	
ZONE OF CONTRIBUTION TO TOWN WELLS	
WENHAM LAKE WATERSHED AREA	
LONGHAM RESERVOIR WATERSHED AREA	
MANCHESTER WATERSHED AREA	
NOTE: REFER TO MAP #1 FOR FLOOD HAZARD ZONE	