

VILLAGE OF WALDEN COMPREHENSIVE PLAN

VILLAGE OF WALDEN, NEW YORK



PREPARED BY THE VILLAGE OF WALDEN COMPREHENSIVE PLAN COMMITTEE
TECHNICAL ASSISTANCE BY PLANIT MAIN STREET, INC. WITH 2019 UPDATES BY LANC & TULLY ENGINEERING AND
SURVEYING, PC ADOPTED **JANUARY 7, 2020**

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VISION STATEMENT

This Comprehensive Plan for the Village of Walden looks to define the attributes that give Walden its unique sense of place, including its place within the region, and to provide a clear vision for guiding future growth and development in a manner that respects the Village's character, so that its unique sense of place within the region is enhanced, its historic, cultural, and natural resources protected, and its social and economic vitality ensured for years to come¹.

¹ For the purposes of the Walden Comprehensive Plan, the following definitions are provided to further clarify the Vision Statement:

Community Character - Those attributes of the Village of Walden that make it unique in terms of its natural resources, built environment and its population. *Unique Sense of Place* – Locally special attributes, which differentiate the Village of Walden from other communities as expressed in its historic structures, public squares, civic and cultural resources and natural environment. *Quality of Life* – A statement that summarizes perceptions about physical, social, health, economic and environmental features of life. It is a composite measure that integrates many considerations about life, and is usually qualitative, not quantitative. Quality of Life is therefore a contextual concept, having no independent or absolute value. It is a statement about the relative well-being of an individual or group – in this case the Village of Walden.

EXECUTIVE SUMMARY

The Village of Walden adopted an overhaul of its Comprehensive Plan in 2005. More than ten years have passed since the original 2005 Plan was adopted and, as the Village evolves, the concerns and objectives of the Comprehensive Plan must be periodically reviewed and updated as necessary. For these reasons, and others, the Village adopted an Amended Plan in 2010 and a new Comprehensive Plan Review committee was formed for the plan's review in 2018 to lead the effort to update and continue to build upon the previously adopted Comprehensive Plan.

The Comprehensive Plan forms the basis for future land use regulations and subsequent zoning or subdivision revisions that may be necessary to implement the recommendations contained within this Plan. It is also intended to help guide other Village policies related to recreation, open space preservation, housing, historic preservation and business development. This Plan is intended to respond to challenges facing the Village today and during the next five to ten years.

Public participation in the development of the 2005 Plan was encouraged through a variety of public informational meetings, visioning sessions, and public hearings and public participation has been key in each of the Village's plan updates.

The Comprehensive Plan Review Committee recommended updates to the Comprehensive Plan, which are reflected in land use policies intended to achieve the broad goal of preserving the character of the Village including its traditional neighborhoods, central business district and historic buildings while encouraging economic development and seeking infrastructure improvements to continue to improve the overall quality of life. These policies are discussed in the context of specific goals and objectives, which are discussed in greater detail below. Specific policies or actions, which are intended to help implement this Plan is provided in Chapter 10 – Plan Implementation.



Above (top to bottom): The Walker Building on Main Street within the Central Business District; single-family residence on Ulster Avenue; and view of High Falls and electric power generating plant on Wallkill River.

1.0 INTRODUCTION

The Village of Walden’s Comprehensive Plan was originally adopted in 2005. The Plan recognized that community planning is an ongoing process and recommended additional action plans and detailed studies to pursue recommendations of the Comprehensive Plan. The 2005 Plan also recommended periodic updating of the Comprehensive Plan to incorporate results of subsequent plans and studies and to reflect any unanticipated events or new issues.

In 2010 and 2018, the Village Board appointed Comprehensive Plan Committees to lead the effort in updating the 2005 Comprehensive Plan. These updates of the Village of Walden Comprehensive Plan have not been new departures. Rather they have incorporated and built upon goals, recommendations and policies set forth in the 2005 Plan; they should not be viewed as a change of direction but, rather, as a refinement of a course already established.

This 2018 Comprehensive Plan was prepared in accordance with New York State Village Law, §7-722(2)(a) that states that the plan will “identify the goals and objectives, principals, guidelines, policies, standards, devices, and instruments for the immediate and long-range protection, enhancement, growth and development.” The creation of a Comprehensive Plan is not required under NYS Village Law, §7-722(2)(a), but once adopted, all subsequent land use regulations must be in accordance with a community’s adopted Comprehensive Plan.

Three distinct phases were involved in the development of the Village of Walden’s updated Comprehensive Plan: 1) preparation of baseline data including population, housing, natural resources, community facilities, open space, and infrastructure, etc., 2) identification of issues facing the Village based upon baseline data, a review of existing land use regulations, monthly Comprehensive Plan Committee meetings, along with public input, and 3) the review and refinement of the Village’s broad goals, objectives and policies.

An analysis of baseline conditions along with public input was used to identify a list of challenges facing the Village. These include:

- Protecting the Village’s water supply wells through wellhead protection measures with the Town of Montgomery;
- Zoning for commercial and industrial uses to enhance the tax base;
- Providing more off-street parking in the Central Business District through improvements to existing municipal parking lots or the creation of new lots;
- Sustaining a vibrant business community within the Downtown Business District;
- Maintaining the pedestrian-friendly feel and expanding the sidewalk network;
- Providing community services to serve growing community needs;
- Natural resource protection and open space preservation; and
- Providing housing opportunities for a range of household incomes.



Above (Top to bottom): Local businesses including Millspaugh Furniture on Main Street; Sohn’s Appliances, the New York School of Music and Barnside Cafe which all serve as important anchors in the Central Business District or “Downtown.”

1.1 Purpose of Plan

This Comprehensive Plan is meant to build upon the 2005 Comprehensive Plan and is intended to guide the Village's growth for the next 5 to 10 years. The Comprehensive Plan serves as the Village's official policy document, providing a general set of planning principals relating to land use; natural, and historic resources; housing, parks & recreation, downtown revitalization and other related issues. The purpose of the Comprehensive Plan is to realize the community's vision for the future and to guide growth in a manner that fosters orderly, coordinated and beneficial development. It should also be periodically reviewed and updated to ensure that it continues to reflect the long range goals of the community.

1.2 Implementation

In order for this Comprehensive Plan to be effective, the Village of Walden must actively apply the policies that are contained within this Plan. Furthermore, its Planning Board and Zoning Board of Appeals must use the Plan as a framework to guide their decisions with respect to the review of development proposals. Certain recommendations contained herein will require the subsequent action of the Village Board in order to enact recommended revisions to the Zoning Code and other land use regulations such as the Village's sign regulations or subdivision regulations and/or the creation of design guidelines for commercial development.

Other actions such as the preservation of historic resources, transportation improvements, or the development of park facilities or bicycle travel lanes will require the collaboration between the Village, Town, County, State and not-for-profit entities. These actions are outlined in Chapter 10 – Plan Implementation of this Plan along with the party responsible for taking a leadership role in the implementation of the policy or program.

Each member of the Village Board, Planning Board and Zoning Board of Appeals should have a copy of this Comprehensive Plan. The Village Board may want to appoint a Comprehensive Plan subcommittee to spend time each month reviewing progress on the implementation of this Comprehensive Plan and coordinating efforts with other entities where necessary.

The Village of Walden has a long-established tradition of respecting its history and protecting its historic resources. Its rich sense of history is defined by its residents, neighborhoods, institutions, parklands, business community, and community events such as Walden Harvest Fest that define its unique sense of place today.

In order to properly plan for the future, it is important to have an understanding and appreciation for the past. In Chapter 2 – Historic & Regional Context a brief summary of the Village's history and its relationship to the surrounding region is provided to help set the stage for the future of the Village of Walden.

VISION STATEMENT

This *Comprehensive Plan* for the Village of Walden looks to define the attributes that give Walden its unique sense of place, including its place within the region, and to provide a clear vision for guiding future growth and development in a manner that respects the Village's character, so that its unique sense of place within the region is enhanced, its historic, cultural, and natural resources protected, and its social and economic vitality ensured for years to come.

~Comprehensive Plan
Committee

2.0 HISTORIC & REGIONAL CONTEXT

Native Americans were the first inhabitants along the banks of the Wallkill or Paltz River in the vicinity of present day Walden. These inhabitants followed the receding glaciers into the Wallkill River Valley, which was a transportation and trading route for early inhabitants as well as a place of settlement.

Europeans began to arrive within the Wallkill River Valley as early as the 1650's. By the early 1700's, Europeans began to establish homesteads and permanent settlements along the Wallkill. "On the east bank of the Wallkill, the first settlement was established in and around the high falls of the Wallkill. Henry Wileman received a grant of 3,000 acres of land upon which Wileman Town was built after 1713."²

Most of the early settlers were farmers, craftsmen, or traders. By the mid-18th century, the Wallkill River in the vicinity of the high falls was being harnessed for her waterpower. In 1813, Jacob Treadwell Walden, a New York City entrepreneur began purchasing land on both sides of the Wallkill to develop a manufacturing settlement that would harness the water power of the high falls of the Wallkill River.

Thereafter, maps were prepared, for a *planned community* of industrial, business and residential sites called the Village of Walden. "By the 1820's,

Jacob T. Walden's mill was creating cotton and woolen cloth for New York consumers through the power of the mighty Wallkill."³ By the 1840's Walden was a major woolen manufacturing center in Orange County. The focus of production shifted from textiles to cutlery when in 1856 the New York Knife Company moved to the idle cotton factory. Walden would see the establishment of two more knife factories with the Walden Knife Company in the 1870's and Schrade Cutlery in 1904.

Soon thereafter, Walden would earn its title as the "Little Sheffield" as it became the cutlery capital of the United States. Cutlery remained a major industry until the 1950's when Schrade Cutlery was relocated to Ellenville. Vestiges of the knife industry remain, from the dam at high falls to the McKinley Statue. In the 1930's and 1950's Walden was also a center for the garment industry with sewing facilities on the upper floors of the Walker Building, the Wooster Building and other sites. Women comprised 90% of the garment workforce with workspace on upper floors of buildings.

Walden is located within the town of Montgomery, in Orange County, New York. In 1855, Walden was incorporated as a Village. During the 1870's, rail service also came to Walden, providing both passenger service for residents and freight access to



Above (top to bottom): Post Card showing Walden Train Station in its original location (relocated to Wooster's Grove); view of President McKinley Statue and the historic Walden House circa early 1700's.

² Source: Marc Newman: Images of America Walden & Maybrook, Arcadia Publishing, 2002.

³ Source: Marc Newman: Images of America Walden & Maybrook, Arcadia Publishing, 2002.

markets for its manufacturing industries. By the early 1900's, Walden came into its own as a center for manufacturing, commerce, banking and retailing.

The early 1900's were a period of prosperity for the Village. During this time, the dense residential development pattern of single-family homes on small lots, coupled with residences above-the-store within the Downtown was established. Public buildings such as Municipal Building were constructed during this period along with the Soldier's, Firemen's & McKinley monument's and the Volunteer Memorial. These architectural and cultural resources contribute to the vitality of Walden to the present day.

Throughout the 1940's, Walden continued on its path as a center for industry and commerce, serving not only the surrounding agricultural areas, but the greater region and national markets. In 1958, Walden's dominance as an industrial center began to decline as a result of competition from other markets. By the 1950's, the Village's last cutlery producer, Schrade Cutlery, moved its facility to Ellenville, New York. Even with these changes, the Village remains a center for manufacturing with such companies as Truffa Seed Co., AMPAC and Polich Tallix, CICOR and American Lumber.

These industries rely upon Walden's skilled workforce and access to markets using the Norfolk Southern freight rail line and proximity to major

transportation corridors such as NYS Routes 52 and Route 208. The ease of mobility wrought by the rise of the automobile and the construction of the New York State Thruway and more recently I-84 meant that the Village had to compete with new and emerging automobile oriented retail centers in the region. During the 1980's and 1990's, the Village saw an increase in the vacancy rate in the Central Business District (CBD) or and a loss of market share.

During the 2000's, the business community adapted to regional shifts in consumer spending patterns. Significant streetscape enhancements and incentives for business owners through the New York Main Street program helped business owners to retain, expand or create business enterprises in the CBD. Walden Savings Bank and Wallkill Valley Federal Savings and Loan – along with retailers like Sohn's Appliances and Millspaugh Furniture – continue to anchor the CBD by serving local and regional demands.

Certain areas in Walden – such as its CBD, turn-of-the-century mill buildings along Elm Street and older neighborhoods nestled along the Wallkill River – look much like they did 100 years ago. Even though new development has grown around its historic core over time, Walden has sustained its unique sense of place. This Plan is intended to help retain its community character while preparing for future growth.



Above (top to bottom): Fireman's Square with Library and Municipal Building in the background; former mill building on Elm Street, which was home to Nelco Industries; and single-family homes on Railroad Avenue in the vicinity of industrial buildings. The Village's rich history is reflected in its historic buildings.

2.1 Regional and County Plans

The Village of Walden is located within the metropolitan New York and Hudson Valley Regions. Regional agencies have developed long-range plans for these regions, which are advisory in nature.

In developing the Walden Comprehensive Plan, these plans were reviewed to provide insight into how the Village could best fit into this regional framework while preserving its unique character. A brief overview of the Regional Plan Association's (RPA) third plan, Hudson River Valley Greenway and Orange County Comp Plan are provided below:

2.1.1 RPA Regional Plan

The Regional Plan Association prepared its third plan for the metropolitan region including parts of New York, Connecticut and New Jersey in 1996. Orange County is part of the 31-county, tri state region and is located in the northern edge of the region.

The Village of Walden and Town of Montgomery are located within an area where the plan recommends the preservation of farmland and open space, limiting suburban sprawl, and focusing growth in existing centers as a means of reducing transportation congestion on regional roadways. This Plan supports land use policies, which preserve open space and encouraging growth within the Village.

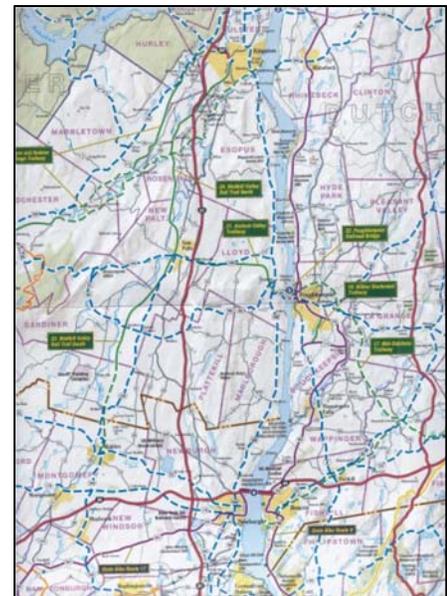
2.1.2 Hudson River Valley Greenway

In 1991, the Hudson River Valley Greenway was established through the passage of The Hudson River Valley Greenway Act. The Greenway covers the areas of Bronx and New York counties, the counties of Westchester, Rockland, Putnam, Orange, Dutchess, Ulster, Columbia, Greene, Albany, Rensselaer and in Saratoga County the Town and Village of Waterford, but excluding any area of Greene and Ulster counties within the Catskill park.

In 2001, the Village of Walden voluntarily joined the Greenway's Community Council and officially became a Greenway Community. There are five (5) principles that Greenway Communities subscribe. What follows is a brief summary of Walden's plans for incorporating these principles into its Comprehensive Plan. In 2016, the Village of Walden adopted site specific plan for the Maple Street Boat Launch intended to implement the principals of the Compact.

Natural and Cultural Resource Protection- Through the Comprehensive Plan update, the Village will inventory its existing Natural and Cultural Resources and develop goals and objectives for preserving these resources.

Regional Planning – The Village of Walden, Town of Montgomery and Town of Shawangunk recently worked together to complete the Walden-Walkill Rail Trail, which opened on May 2, 2009. This Plan supports on-going coordination with the Town of Montgomery to create a wellhead protection plan for the Village's wells, which lie within the Town.



Above (top to bottom): Regional Plan Association's Greenward Map showing areas within the metropolitan New York Region where growth is recommended and where a greensward of lower density development is recommended; and New York State Department of Transportation's *Hudson Valley Bikeways and Trailways System Map*, which includes bikeways within Walden.

Economic development- The Village of Walden’s recognizes that the preservation and marketing of its natural, historic, civic and cultural resources could be the catalyst for tourism and economic development. Resources include: the Wallkill River with upper and lower falls, three municipal squares, statues, historic Downtown; private, parochial and public schools; religious centers, quaint neighborhoods and an outstanding public park and library system. Walden is also at the crossroads of two State Highways, Route 52 and Route 208.

Public Access - Opportunities to enhance public access to the HRVG Trail System are being implemented. The Walden-Wallkill Rail Trail has made Walden the southern terminus of the Wallkill Valley Rail Trail South providing a direct link to two of the HVRG Countryside Corridors and the Hudson River via Kingston. The southern section of the trail, completed in 2009, is paved and stretches about three miles from Wooster Grove Park in the Village to Route 208 in the Hamlet of Wallkill.

The Village of Walden is also pursuing efforts to create new public access points along the Wallkill River in the vicinity of Bradley Park and with a new proposed boat launch at Maple Street. This Comprehensive Plan supports continuing efforts to enhance public access. These efforts are also supported by Orange County’s Wallkill River Water Trail Project.

Heritage and Environmental Education – The policies noted above will help to preserve the history of Walden and create opportunities to market the Village to those interested in heritage tourism and natural resources such as the Wallkill River.

2.1.3 NYSDOT Regional Trail Plan

NYSDOT Region 8's proposed Hudson Valley Bikeways and Trailways System includes major bikeways and rail-trails in the Village of Walden. These include bikeways along NYS Route 52 and 208. This Plan supports the creation of such bikeways provided measures are put in place by NYSDOT to ensure bicyclist and motorist safety.

2.1.4 Orange County Open Space Plan

The Orange County Open Space Plan was adopted in June of 2004. The recommendations for open space preservation, trail development, and parkland development contained within the County Open Space Plan are supported through the recommendations contained within this Plan.

2.1.5 Orange County Comprehensive Plan

Orange County updated its 2003 Comprehensive Plan in October of 2010 and are currently undergoing an additional revision. “The County Plan emphasizes the concentration of development in and around “centers” – built up areas such as cities, villages, hamlets, and certain crossroads and interchanges – in order to maintain the County’s rural countryside.” This Plan supports a pattern of sustainable development at a scale and density, which complements Walden’s built environment; that ensures infrastructure capacity is sufficient to accommodate new development; while assuring the ability of future generations to meet their own needs for such public services.



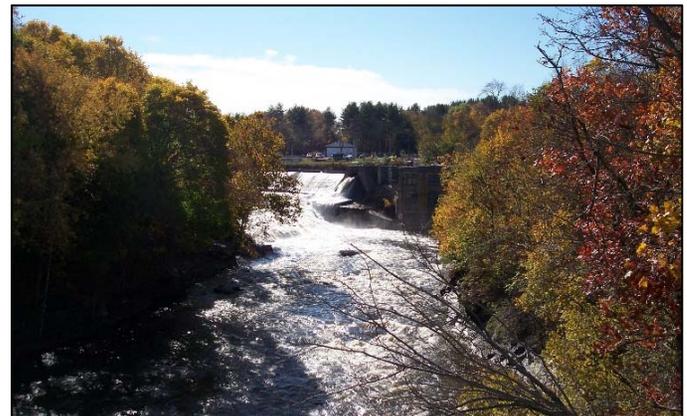
Above (top to bottom): Handicap Accessible access to the Walden-Wallkill Rail Trail from Woodruff Street; view of Wallkill River looking northwest from Westwood Drive; and view of public beach at James Olley Park off of Sherman Avenue, which leads to Wanderling Park Drive.

2.2 Conclusions

The Village of Walden’s rich history as a regional employment center, proximity to other employment centers, availability of natural resources and parks, and ease of access to the regional transportation network including: the NYS Thruway, I-84, rail, and Stewart International Airport all combine to make Walden a very attractive place to live and do business. The greatest evidence of this is the steady population increase, new housing growth and the establishment of new religious buildings such as the Buddhist Temple on Edmonds Lane.

Additionally, Walden is experiencing continued reinvestment in its CBD. Many downtown business owners have participated in the New York Main Street grant program. They have recently completed façade and interior building renovations, which have enhanced the vitality of the Central Business District. The New York School of Music has moved into the former Gridley Furniture Store on Municipal Square providing an important cultural anchor within the downtown.

This new investment reflects the desirability of Walden as a place to live and do business. As Walden plans for growth and redevelopment, this Plan supports a pattern of sustainable development at a scale and density, which complements Walden’s built environment. Such measures will ensure the unique desirability of Walden is maintained for years to come.



Above (top to bottom): The Village’s Main Street Business District, the recently updated Sechen Kunchab Ling, Temple of All-Encompassing Great Compassion; and the Wallkill River as viewed from the Village’s Upper Bridge.

3.0 POPULATION & HOUSING

3.1 Population Characteristics

Between 1960 and 2010, the Village’s population increased from 4,851 to 6,978 persons – a forty percent increase. This was lower than the two-fold population increase of Orange County during this period of time, but was still a significant increase. The 2010 Census data shows the Village’s population grew by 13.2% between 2000 and 2010, faster than the County rate of 9.2% due, in part, to outward migration of the New York Metropolitan area and a huge influx of new housing being constructed in the County.

Between 2000 and 2010, the Village was the fastest growing municipality in the Town of Montgomery with a growth rate of 13.2%. During this time, the Town’s population grew by 10.6%, the Village of Montgomery by 4.8% while the Village of Maybrook saw a population decrease of -4.0% (see Table 3-3). Since this time, the housing market experienced a rapid decline and population growth in Walden showed a slight decline.

Walden’s population by age group is comparable to that of Orange County (see Table 3-3). Roughly 28% of the Village’s population is 50 years of age or older. As this population ages, services to meet the needs of its senior population will grow. Conversely, 26% of the population was under 18 years of age suggesting the existing need for services and amenities for children and young adults.

Table 3-1 Population Trends				
Year	Village of Walden		Orange County	
	Population	Percent Change	Population	Percent Change
1970	5,659	-	221,657	-
1980	5,536	7.2%	259,603	17.1%
1990	5,836	3.1%	307,647	18.5%
2000	6,164	5.6%	341,367	11.0%
2010	6,978	13.2%	372,813	9.2%
2016	6,769	-2.9%	376,242	0.9%

Source: US Bureau of the Census with 2016 information from the 2012-2016 American Community Survey 5 Year Estimates

Table 3-2 Population Change		
	% Change 2000-2010	% Change 2010-2016
New York State	2.1%	1.6%
Orange County	9.2%	0.9%
Village of Maybrook	-4.0%	7.4%
Village of Montgomery	4.8%	16.4%
Village of Walden	13.2%	-2.9%
Town of Montgomery (Exclusive of Villages)	10.6%	2.7%

Source: US Bureau of the Census with 2016 information from the 2012-2016 American Community Survey 5 Year Estimates

Looking ahead, the Village of Walden is likely to experience slow to moderate population growth during the next decade due to the slow recovery of the housing market and the quality of life that the Village offers its residents. Walden has an excellent public park system and the recently completed Walden-Walkkill Rail Trail are the type of facilities which have, and will continue to attract new residents. Walden’s access to the metropolitan New York region, coupled with its historic charm and quaint neighborhoods make it an attractive place to reside.

However, it will be increasingly important to focus on the design of new development as the few remaining vacant sites are built upon. How these properties are designed will affect the future character of the Village and whether it remains an attractive destination for new residents. Ensuring new buildings complement historic properties will help to preserve Walden’s charm. Further discussion regarding design is provided in the Chapter on Land Use & Zoning.

The Village of Walden is becoming more diverse with respect to Race & Hispanic Origin. It is estimated that 78 % of the Village’s population is white (see Table 3-4). This number has been steadily decreasing over the past two decades. The Village’s racial distribution generally mirrors the County’s population. According to the 2016 American Communities Survey, 17.5% of the Village’s population is of Hispanic Origin. This mirrors statistics for the County where 19.4% were of Hispanic Origin in 2016. This growing diversity is a strength, which enriches the fabric of the Village.

The Village of Walden is within the Valley Central School District (VCSD) which serves the majority of the Town of Montgomery and all three of its Villages

Table 3-3 Population by Age, 2016				
Age Groups	Village of Walden		Orange County	
	Number	% of Overall Population	Number	% of Overall Population
0-4	348	5.1%	24,715	6.6%
5-9	443	6.5%	27,889	7.4%
10-17	868	12.8%	45,246	12.1%
18-24	818	12.1%	40,168	10.7%
25-34	908	13.4%	42,061	11.2%
35-49	1,429	21.1%	74,464	19.8%
50-64	1,282	18.9%	74,519	19.8%
65-69	168	2.5%	16,359	4.3%
70-74	93	3.3%	11,224	3.0%
75-84	219	3.2%	12,935	3.4%
85+	61	0.9%	6,663	1.8%

Source: 2016 American Communities Survey

Table 3-4 Race and Ethnicity, 2016		
	Number	% of Overall Population
Total Population	6,769	100.0%
White/Caucasian	5,286	78.1%
Black or African American	511	7.5%
Asian	61	0.9%
American Indian or Alaska Native	0	0.0%
Native Hawaiian or Pacific Islander	0	0.0%
Other Race	743	11.0%
Two or More Races	168	2.5%
Hispanic or Latino Origin	1,185	17.5%
Not Hispanic or Latino	5,584	82.5%

“We are a nation
Of communities...
a brilliant
diversity spread
like stars,
like a
thousand points
of light in a
broad and
peaceful sky.”

~George H.W. Bush

five elementary schools, a middle school and high school. Walden Elementary, located on Orchard Street directly serves the Village population. The District's enrollment as of the 2016-17 school year was 4,239 students which is down slightly from the previous year's enrollment of 4,276 students which is reflective of decreases in overall population. According to the NYS Department of Education VCSD has a 93% graduation rate which is higher than both the Orange County (85%) and the New York State (80%) averages.

Since 1990, the Village of Walden has seen significant increases in the level of educational attainment of Village residents. In 1990, nearly 30% of Village residents had less than 12 years of education. As shown in the table below, this number has continued to significantly decrease on both the Village and County-wide levels.

The percent of persons with an Associates or Bachelor's degree has also significantly increased in the Village by 56.2 and 60.9% respectively; this is higher than the County rate. The Village will likely continue to see increased in educational attainment during this decade and increased demand for related library services.

Education is the most powerful weapon which you can use to change the world.

~Nelson Mandela

Table 3-5 Trends in Educational Attainment 2010-2016						
Level of Education	Village of Walden		% Change Village	Orange County		% Change County
	2010	2016		2010	2016	
Total Population 25 years and over	4,800	4,292	14.6%	232,097	238,224	11.9%
Less Than 9th Grade	182	63	-70.3%	10,676	9,005	-24.6%
9th-12th grade, no diploma	672	335	-45.0%	19,960	16,212	-39.3%
HS graduate or equivalent	1,646	1,452	6.1%	71,486	71,105	7.5%
Some college, no degree	1,051	1,050	43.2%	44,563	49,570	15.9%
Associate's degree	360	492	56.2%	21,121	23,968	38.2%
Bachelor's degree	451	555	60.9%	36,903	39,527	40.3%
Graduate or Professional	438	345	122.5%	27,388	28,837	45.8%
% High School grad/equiv. or higher	82.2%	90.7%	12.6%	86.7%	89.4%	7.5%
% Bachelor's Degree or higher	18.5%	21.0%	7.2%	27.7%	28.7%	6.2%

Source: US Bureau of the Census with 2016 information from the 2012-2016 American Community Survey 5 Year Estimates

3.1.1 Employment by Industry

Despite the Education and Health Services remaining the largest employment sector in both the Village and County, Walden’s economy has experienced some major shifts. Similarly to Orange County, the Arts, Entertainment, Recreation, Accommodation and Food Service Industry has grown at exponential rates due to the County’s major

focus on attracting such uses to the area. Both Orange County and Walden saw declines in Manufacturing and Agricultural Sectors; Walden’s being more significant at rates of 74% and 100% respectively, while Orange County saw more modest declines of 16.4% and 26.3% respectively. Other significant industry gains at the Village level include Education and Health Services (52%) Professional Services (59%), Finance, Insurance and Real Estate (172.8%) Transportation, Warehousing and Utilities (48.4%) and the Construction Industry which rebounded from a decline in 2010.

Table 3-6 Labor Force and Employment by Industry

Employment Characteristics Population Age 16 and Over	Village of Walden			Orange County			% Change Village	% Change County
	2000	2010	2016	2000	2010	2016		
Total Population Age 16+	4,410	5,417	5,325	252,668	279,978	290,294	20.7%	14.9%
In Labor Force	3,014	3,698	3,740	164,858	189,079	188,573	24.1%	14.4%
Civilian Labor Force	3,009	3,698	3,707	159,946	181,849	184,383	23.2%	15.3%
Unemployed	133	291	336	8,202	11,418	12,277	152.6%	49.7%
Unemployment Rate	4.4%	7.9%	9.1%	5.1%	6.3%	6.7%	106.8%	31.4%
Industry								
Educational & Health Services	557	973	850	36,167	45,493	44,161	52.6%	22.1%
Retail Trade	530	287	536	20,399	21,743	23,830	1.1%	16.8%
Manufacturing	399	345	103	15,404	13,489	12,879	-74.2%	-16.4%
Public Administration	247	353	167	11,457	12,297	11,922	-32.4%	4.1%
Professional Services	216	252	345	11,579	14,619	15,464	59.7%	33.6%
Transportation, Warehousing and Utilities	215	228	319	9,081	9,531	10,798	48.4%	18.9%
Arts, Entertainment, Recreation, Accommodation & Food Services	167	355	343	8,379	11,618	14,068	105.4%	67.9%
Wholesale Trade	143	133	68	6,146	6,284	5,697	-52.4%	-7.3%
Other Services (except public administration)	127	68	153	6,332	6,320	7,960	20.5%	25.7%
Construction	124	73	197	10,297	12,231	9,821	58.9%	-4.6%
Finance, Insurance & Real Estate	81	200	221	9,702	10,638	9,840	172.8%	1.4%
Communications and Info	56	116	69	5,255	4,307	4,327	23.2%	-17.7%
Agriculture, Forestry and Mining	14	24	0	1,546	1,861	1,139	-100.0%	-26.3%

Source: US Bureau of the Census with 2016 information from the 2012-2016 American Community Survey 5 Year Estimates

This reflects new employers such as Wallkill Valley Federal Savings Bank. At the County level, significant gains occurred within the Professional Services (33.6%), Education & Health Services (22.1%), Transportation, Warehousing and Utilities (18.9%) and Other Services (25.7%) which reflects new employers such as Touro College, Orange Regional Medical Center, Crystal Run Healthcare, United Natural Foods, Inc. and United Parcel Service.

Also addressed in Table 3-6 is the Village and County employment. The Village of Walden’s unemployment rate has experienced an increase of more than 106% since 2010. During the same timeframe the County’s rate increased by more than 30%. These numbers are, in part, due to the national economic downturn of the mid-2000s. As shown, the rate increase from 2010 to 2016 is much smaller than that of the previous decade.

The Village has still been able to retain a vibrant Central Business District (CBD) in the face of growing competition. Millspaugh Furniture’s recent expansion and that of the New York school of Music within former Gridley Building speak to the attractiveness of Walden as a place to do business. However, if the CBD is to remain competitive, public/private efforts to promote and market downtown to customers and businesses alike must be sustained in the future.

3.1.2 Occupation

Table 3-7 provides a breakdown of the Village of Walden’s workforce (persons 16 years of age and over) by occupation. As shown, 29.1% of Village residents are employed in Management or Professional occupations.

A total of 15.5% of residents were employed in Services Businesses and another 36.2% in Sales and Office jobs. A total of 3.7% of residents worked in Construction with another 11.6% employed in Production and Transportation. Less than one percent of Village residents were employed in the Farming, Fishing or Forestry industry.

Table 3-7 Occupations of Village Residents, 2016		
Occupation	Number	Percentage
Professional Management	981	29.1%
Service	523	15.5%
Sales and Office	1,220	36.2%
Farming, Fishing and Forestry	14	0.4%
Construction and Extraction	124	3.7%
Production and Transportation	391	11.6%

3.2 Housing Characteristics

In 2016, the Village of Walden had a total of 2,527 housing units. The majority of these housing units, 63%, are single-family detached dwelling units with 30% of the housing stock being multi-family, containing 2 or more attached units and 1.5% mobile homes (see Table 3-8). Owner occupied units accounted for 62.5% of the occupied housing stock. This number has been relatively consistent since 2010 in the Village and at the County level.

The Village’s housing vacancy rate has been steadily increasing since 2010 having gone from 6.6% to 8.4% in 2016. This rate remains slightly lower than the County’s rate of 10.5%. The higher rate for the County is, in part, due to the higher percentage of second homes and seasonal dwelling units in the County that are counted as vacant when the Census is taken in April. The Village has a relatively small second home population.

Table 3-8 Housing Units in Structure, Village of Walden and Orange County						
	Walden			Orange County		
	2010	2016	2016 % of total	2010	2016	2016 % of total units
Total Housing Units	2,988	2,527	-	135,562	139,757	-
1-unit, detached	1,546	1,591	63.0%	85,141	86,433	61.8%
1-unit, attached	169	127	5.0%	8,398	9,372	6.7%
2-4 units	857	436	17.3%	19,909	19,013	13.6%
5-9 units	109	198	7.8%	8,512	9,140	6.5%
10 or more units	230	134	5.4%	10,095	12,446	8.9%
Mobile home	77	39	1.5%	3,481	3,353	2.4%
Boat, RV, Van, etc.	0	0	0.0%	26	0	0.0%

Source: US Bureau of the Census with 2016 information from the 2012-2016 American Community Survey 5 Year Estimates

Table 3-9 Housing Occupation, 2016				
	Walden		Orange County	
	2016	% of Total	2016	% of Total
Total Housing Units	2,527	100.0%	139,757	100.0%
Occupied Housing Units	2,309	91.6%	125,144	89.5%
Owner-Occupied Units	1,443	62.5%	85,306	68.2%
Renter-Occupied Units	866	37.5%	39,838	31.8%
Vacant Housing Units	218	8.4%	14,613	10.5%
Seasonal Housing Units	0	0.0%	2,550	1.8%

Source: US Bureau of the Census with 2016 information from the 2012-2016 American Community Survey 5 Year Estimates

Summary

As the Village's population continues to grow, so too will the demand for community services such as fire, police, ambulance, water, and sewer services. New residential construction will likely increase the demand for public education that may necessitate capital improvements in the Valley Central School District. Continued competition from regional retailers will require ongoing cooperation between the Village and the local business community in order to maintain a vibrant Central Business District.

As the community's population grows so too will the demand for parks & recreational services. It is important that the increase in demand for such services are anticipated and carefully analyzed during the environmental review process for development projects. The Village can use the environmental review process to assess such impacts and to ensure that appropriate measures are put in place to mitigate potential adverse impacts to the community.

As is the case in most communities, the most suitable sites for development in the Village of Walden were the first to be developed. These sites are becoming increasingly scarce – leaving less desirable sites (i.e. those with environmental or other site constraints) for development. Development on such sites will require careful review to protect natural resources such as steep slopes, wetlands, and water resources. In some cases remediation may be necessary.

Care must also be taken to protect important vistas that help to define Walden's small-town character. Infill development on vacant parcels within the CBD must be carefully reviewed in order to protect the integrity of the historic business district. New infill buildings should respect the mass & scale of the traditional building stock in the Central Business District and align to the edge of the sidewalk to maintain a building line along the street. The desirability of the Village (demonstrated by its strong population growth) will also continue to put pressure on the housing market. Looking ahead, policies to ensure that housing opportunities are made available to meet the needs of a variety of household incomes in the community (including volunteer fire department & ambulance corps members, teachers, and its growing workforce) may be necessary.

The Village has many assets and with careful planning it is well positioned to grow in a manner that will strengthen the community's economic and social vitality for years to come. The following chapters provide a broader discussion of natural resources, transportation, cultural and historic resources, parks and recreation, community facilities and downtown revitalization. Each of these chapters will frame the challenges facing Walden in the years ahead as well as policies that it can put in place to help the Village of Walden to meet these challenges.



Above (Top to Bottom): Recently developed single family and multi-family dwellings in the Village.

4.0 NATURAL RESOURCES

The Village of Walden has a rich and diverse natural environment that offers its residents an abundance of open space and recreational opportunities. The physical characteristics of land are some of the most important factors, which will influence land development. Physical characteristics such as topography, drainage, or soil conditions will control or limit both the rate and intensity of growth.

It is for these reasons that the Village of Walden's natural resources need special consideration in helping to determine the manner in which development should be controlled or limited in various areas of the Village. One of the key goals of this Comprehensive Plan shall be to avoid disturbance of environmentally sensitive lands, to preserve important vistas and other natural resources and to guide growth in areas that are best suited for development.

This chapter provides a brief overview of the Village's many natural resources and those areas with environmental constraints. It also includes a variety of policy recommendations to guide land use decisions in order to conserve and protect these natural resources while allowing for growth. The terrain and rivers within the Village of Walden provide a dramatic backdrop to the built environment. The natural resource discussion begins with an overview of elevation and terrain.

4.1 Elevation and Terrain

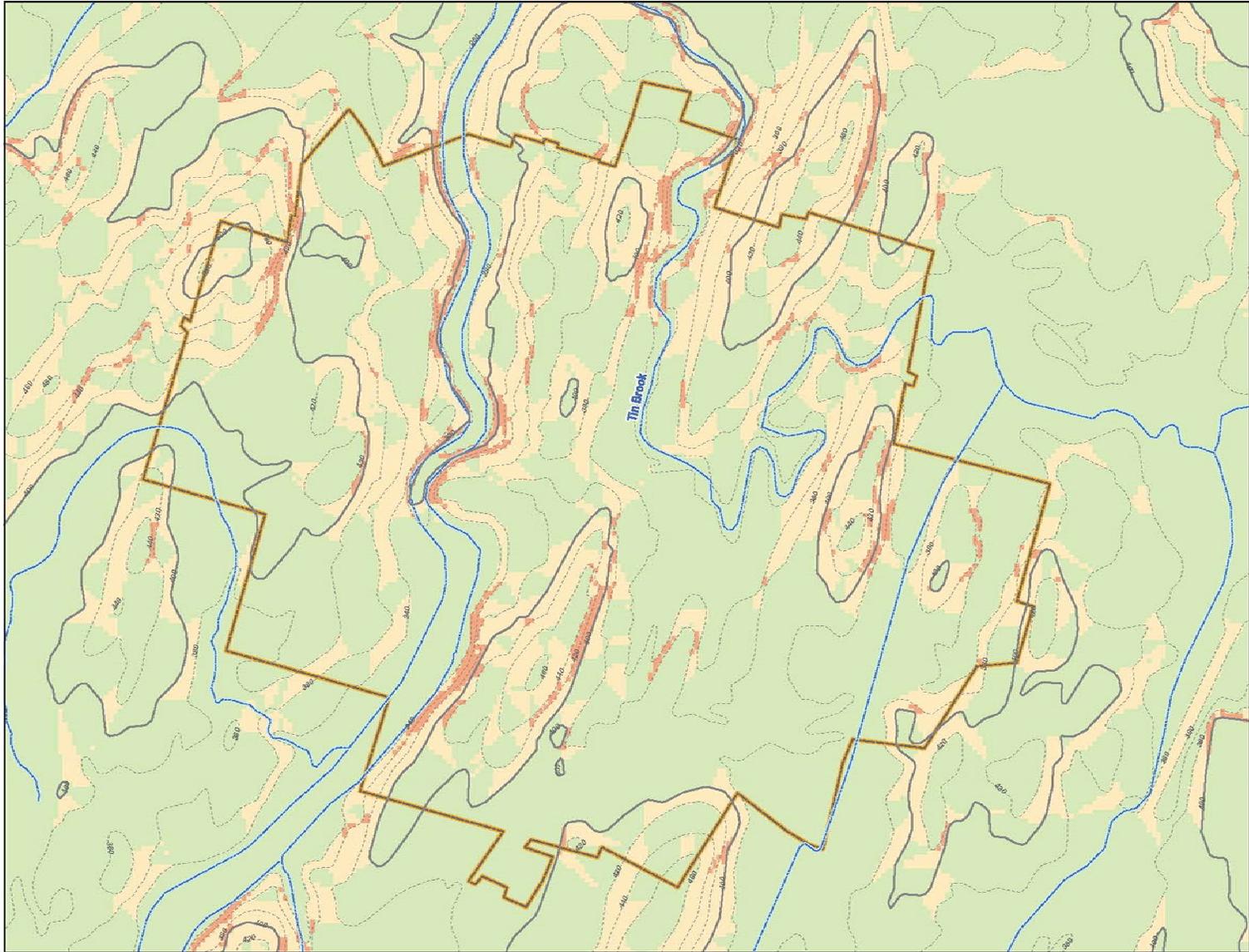
Topography is defined as the relief of land surface describing terrain, elevation and slope. An important measure of topography is range of elevation. In the Village of Walden, the range of elevation is 260 feet. The lowest point is 260 feet above mean sea level (msl) in the vicinity of Bradley Park along the Wallkill River. The highest point is 520 feet above msl in the vicinity of Overlook Terrace. In recent years, low-lying areas along the Wallkill River and Tin Brook have been more susceptible to periodic flooding than previously realized. Care must be taken with respect to any development, which is proposed in these low-lying flood-prone areas.

4.2 Steep Slopes

Comprehensive slope information is an essential element in the planning process. Relating land use to topography can help to minimize damage to the environment and to avoid extensive site alterations that can cause destabilization of banks and soil erosion. Development on slight slopes usually presents the fewest limitations allowing land to be developed with few engineering challenges or harm to the environment. In contrast, development on steep slopes can mean higher construction costs due to the need for major regrading and alternation of the landscape which creates the potential for changes to drainage patterns, unstable soils, and sewage disposal problems. Development on steep slopes should be avoided to mitigate the potential for erosion and impacts on water quality due to erosion and sediment runoff. This is particularly true within riparian zones.

“A river is more than an amenity. It is a treasure. It is a necessity of life that must be rationed among those who have power over it.”

~Oliver Wendell Holmes





**VILLAGE OF WALDEN
SLOPE MAP**

LEGEND

-  100' Interval
-  20' Interval
-  Streams
-  Municipal Boundary

**Slope
(In Degrees)**

-  0 - 5
-  5.000000001 - 15
-  > 15.00000001

**TOWN OF MONTGOMERY
REFERENCE MAP**





SCALE
1" = 1,000 FEET

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Slope indicates the percentage of incline of the land. Those areas with a slope of greater than 8.5° or 15% are generally considered to be too steep for development purposes.

Within the Village of Walden, there are many areas with slopes that are greater than 15%. These are found along the Wallkill River, Tin Brook and in the vicinity of Overlook Drive. There are also steep slopes to the west of NYS Route 208. The steep slopes are shown in orange on the Slope Map on the preceding page. Those areas with slopes greater than 35% are found along the Wallkill River. Disturbance of such areas, including existing vegetation, should be avoided. Three of the most common difficulties associated with disturbance of steep slopes are:

- 1) Sewage disposal – soils on steep slopes are shallow, making it impractical to install subsurface disposal systems.
- 2) Drainage – the removal of trees, grading, and erection of buildings will destabilize the bank while increasing runoff. These factors contribute to erosion and sediment control problems; and
- 3) Driveway and street layout – as a general rule, the slope of driveways and roadways should not exceed 6.8° or 12%. Development on steep slopes makes alignments and safe intersections very difficult. They also may result in rapid runoff onto adjoining roads causing erosion and icing problems in the winter.

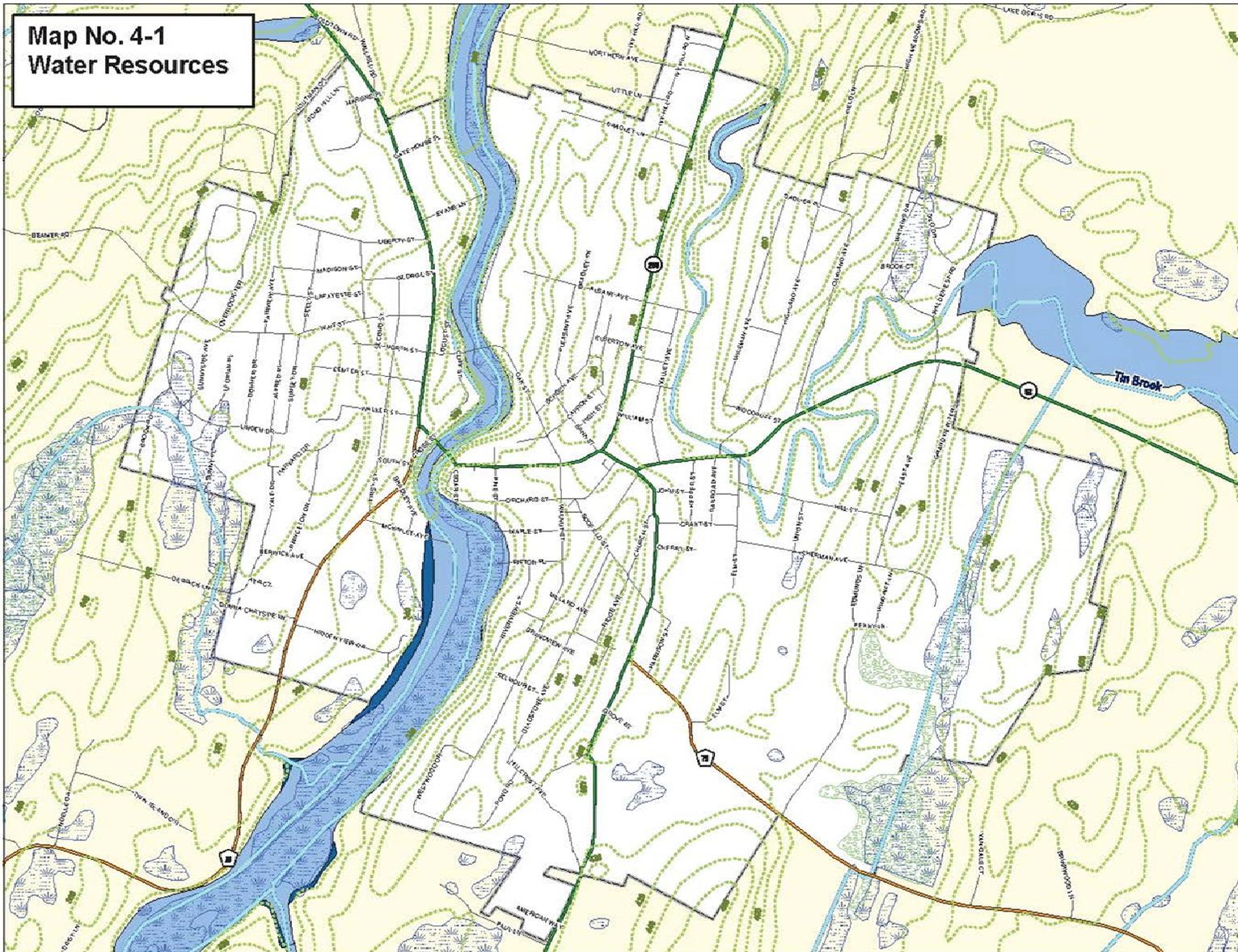
4.3 Water Resources

The Wallkill River is the primary surface water body in Walden and it flows from south to north through the center of the Village. The Wallkill is classified as a “Class B” stream, meaning it is suitable for swimming and other forms of primary contact. The Tin Brook is a major tributary to the Wallkill and meanders through the northeast quadrant of Walden. There is also another unnamed tributary to the Wallkill, which traverses the Village’s southwest quadrant and enters the Wallkill just south the Village.

The Village obtains its potable water supply from wells, which are situated in the Town of Montgomery. Additional steps must be taken to protect its potable water supply by limiting certain land uses within close proximity to its wells and/or developing additional standards for land uses within its aquifer recharge areas.

This Plan supports efforts by the Village Board to work with the Town of Montgomery to create wellhead protection and aquifer protection overlay districts in the vicinity of its wells. Land uses around the wells must be carefully regulated in order to avoid contaminants from being unintentionally introduced into the groundwater through both stormwater runoff and industrial spills. It is also of critical importance to protect wetlands in the vicinity of the wells. Wetlands serve as a point of absorption for ground water reserves and aquifers on which many public and private water supplies depend. The Village should carefully monitor development in the Town which may impact the Village’s groundwater resources and should advocate for the continued protection of these resources. A more detailed discussion on wetlands follows in Section 4.3.1.

**Map No. 4-1
Water Resources**



**VILLAGE OF WALDEN
WATER RESOURCES
MAP**

LEGEND

- Topography
- Streams
- Lakes & Ponds
- Federal Wetlands
- DEC Wetlands
- 100 Yr
- 500 Yr
- Municipal Boundary
- Interstate
- Federal Highway
- State Route
- County Road
- Local Road

**TOWN OF MONTGOMERY
REFERENCE MAP**



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4.3.1 Wetlands

Wetlands are perhaps the most critical of all water resource considerations due to their extreme sensitivity to development. These areas are subject to periodic or continual inundation by water and are commonly referred to as bogs or marshes. The New York State Department of Environmental Conservation has mapped these resources and regulates these water resources as well as land within 100 feet of them. In addition to NYSDEC wetlands, there are also Federal wetlands that are protected under Section 404 of the Federal Clean Water Act. These are regulated by the United States Army Corps of Engineers and are shown on the National Wetland Inventory maps.

In Walden, there are several NYSDEC regulated wetlands as well as a number of federally regulated wetlands. These wetlands are located along the banks of the Wallkill, Tin Brook, and other tributary rivers to the Wallkill and along the eastern edge of the Village, particularly in the vicinity of James Olley Park (see Map No. 4-1 Water Resources).

These wetlands provide natural wildlife habitat for a variety of birds, waterfowl, and other plant and animal species. The enforcement of the Village's land use regulations and concurrent SEQOR review must be the primary tools used to protect these resources. Allowing clustered development on sites to avoid disturbance of these sensitive areas is one measure, which could be encouraged to mitigate impacts on wetlands.

Wetlands serve an important function cleansing water. They also serve a vital function in retaining

large amounts of runoff during the spring thaw and major storm events. In this respect, wetlands help to reduce peak flood flows and decrease flood damage. All proposed development within the vicinity of NYSDEC and federal wetlands must comply with the regulation of the respective authority. Within the Village, both types of wetlands are found. The Planning Board must ensure that applicants adhere to these standards when reviewing site plans or subdivision proposals that are in the vicinity of regulated wetlands.

4.3.2 Flood Hazard Areas

The Federal Emergency Management Agency has identified potential flood hazard areas in the Village of Walden. Areas in the Village that are subject to flooding include those lands adjoining the Wallkill River and Tin Brook where flooding results from snow melt, heavy rains or other weather conditions. By identifying these areas, it is possible to restrict development to open space uses, including passive recreation, which don't obstruct water flow and are tolerant of flooding.

It is important to do this in order to mitigate both financial loss and the potential loss of life that might occur as the result of periodic flooding. FEMA defines the likelihood of flooding into two broad categories: 1) lands within the 100-year floodplain; and 2) those within the 500-year floodplain.

Lands within the 100-year floodplain have a 1% probability of a flood exceeding a certain depth in



any given year. Where the threat exists, the construction of houses and other buildings, including civic buildings, should be avoided.

It is recommended that the Village Planning Board factor in the presence of floodplains when they review site plans and subdivision applications. The Planning Board must insist on appropriate mitigation measures for any development within floodplains.

4.3.3 Stormwater Management

Stormwater is water that accumulates on land as a result of storms or melting snow. The porous and varied terrain of natural landscapes like forests, wetlands, and grasslands trap rainwater and snowmelt and allow it to slowly filter into the ground. Runoff tends to reach receiving waters gradually. In contrast, nonporous landscapes like roads, bridges, parking lots, and buildings don't let runoff slowly percolate into the ground. Water remains on the surface, accumulates and runs off in large amounts.

The Village's stormwater management system includes its storm sewers and ditches that are designed to quickly channel runoff from roads and other impervious surfaces. These devices are important to control high flows that may be a threat to public safety. Unfortunately, there are adverse environmental impacts associated with traditional stormwater management.

Runoff gathers speed and can collect trash, bacteria, heavy metals and other pollutants which are on road and roof surfaces. During storm events, large volumes of high velocity runoff can erode streambanks, damage streamside vegetation and

widen stream channels. In turn, this will result in lower water depths during non-storm periods, higher than normal water levels during wet weather periods, increased sediment loads and turbid water and higher water temperatures. It is thus important to control and treat stormwater runoff associated with development.

In New York State, any construction operation that will disturb or expose one or more acres of soil requires a State Pollutant Discharge Elimination System (SPDES) Permit for Stormwater Management Discharges from Construction Activity. Soil disturbance includes clearing vegetation, grubbing, filling, grading, excavation, demolition and any current or proposed construction activity. Nonresidential projects proposing over one acre of disturbance and single family residential projects proposing over five acres of disturbance will also require the development of a Stormwater Pollution Prevention Plan (SWPPP). A SWPPP addresses both construction and post-construction activities. During construction activities, erosion & sediment control devices such as silt fences are used to prevent silts from soils from be carried off the site during storm events. Detention and retention basins are used to ensure that post-development runoff rates from a site do not exceed pre-development rates. The most recent NYSDEC stormwater design manual requires the use of green treatment practices such as bioretention basins, rain gardens, green roofs, bioswales and the use of porous pavement. The EPA defines Green Infrastructure as "us(ing) vegetation, soils, and natural processes to manage water and create healthier urban environments. . . . At the scale of a neighborhood or site, green infrastructure refers to stormwater management systems that mimic nature by soaking up and storing water." Preservation and supplemental planting of mature vegetation can also play an important role in stormwater management on a site as well as reducing pavement temperatures though shading to keep stormwater cooler as it enters the storm sewer system.

Rain gardens are shallow vegetated basins that collect and absorb runoff from rooftops, sidewalks, streets, lawns, and parking lots. Rain gardens mimic natural hydrology by allowing infiltration and evapotranspiration of runoff, and can be installed in almost any unpaved area. Bioswales are vegetated, mulched, or xeriscaped channels that provide treatment and retention as they move stormwater from one place to another. Detention basins are dry basins that fill with water

during a storm event. They work by delaying the stormwater so that it is released at a rate that mimics predevelopment flow. Retention basins hold water in a pool and release water through an overflow spillway during storm events. These basins provide for the release of runoff at controlled rates to protect the quality of surface waters and to prevent flooding during storm events.

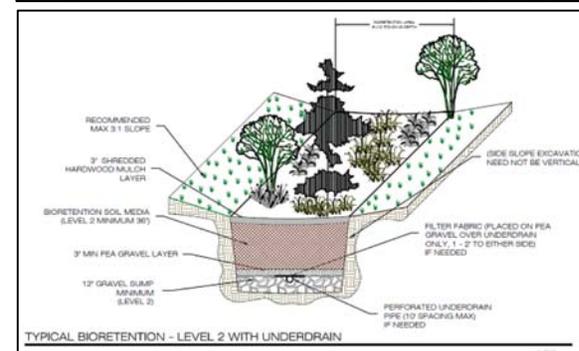
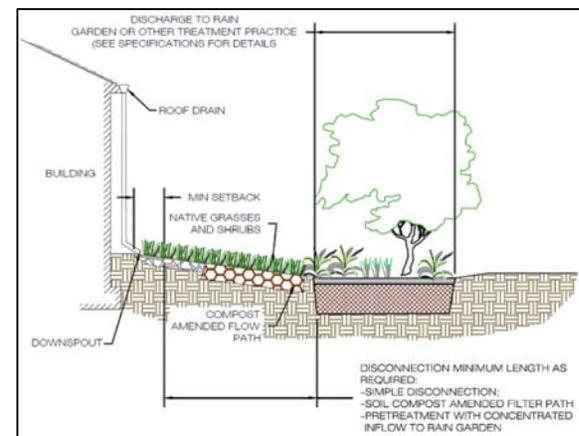
Detention and retention basins are also important stormwater treatment systems. Stormwater treatment is the capture and reduction of pollution in stormwater runoff prior to discharge into receiving waters such as the Wallkill River and groundwater aquifer. By capturing the runoff, the basins allow particulates to settle to the bottom that removes pollutants from the runoff before it is discharged.

Within off-street parking areas, catch basins are used to retain and filter contaminants before they leave the site. Other measures that can be employed include the use of infiltration trenches that capture runoff and treat it through a soil medium and pea gravel filter layer before it is discharged. Bioretention basins are a variation of these systems, with planting intended to also absorb nutrients. As the Planning Board reviews development applications it must ensure that appropriate stormwater management measures are put in place. Such measures will help to protect water quality and mitigate potential damage during major storm events.

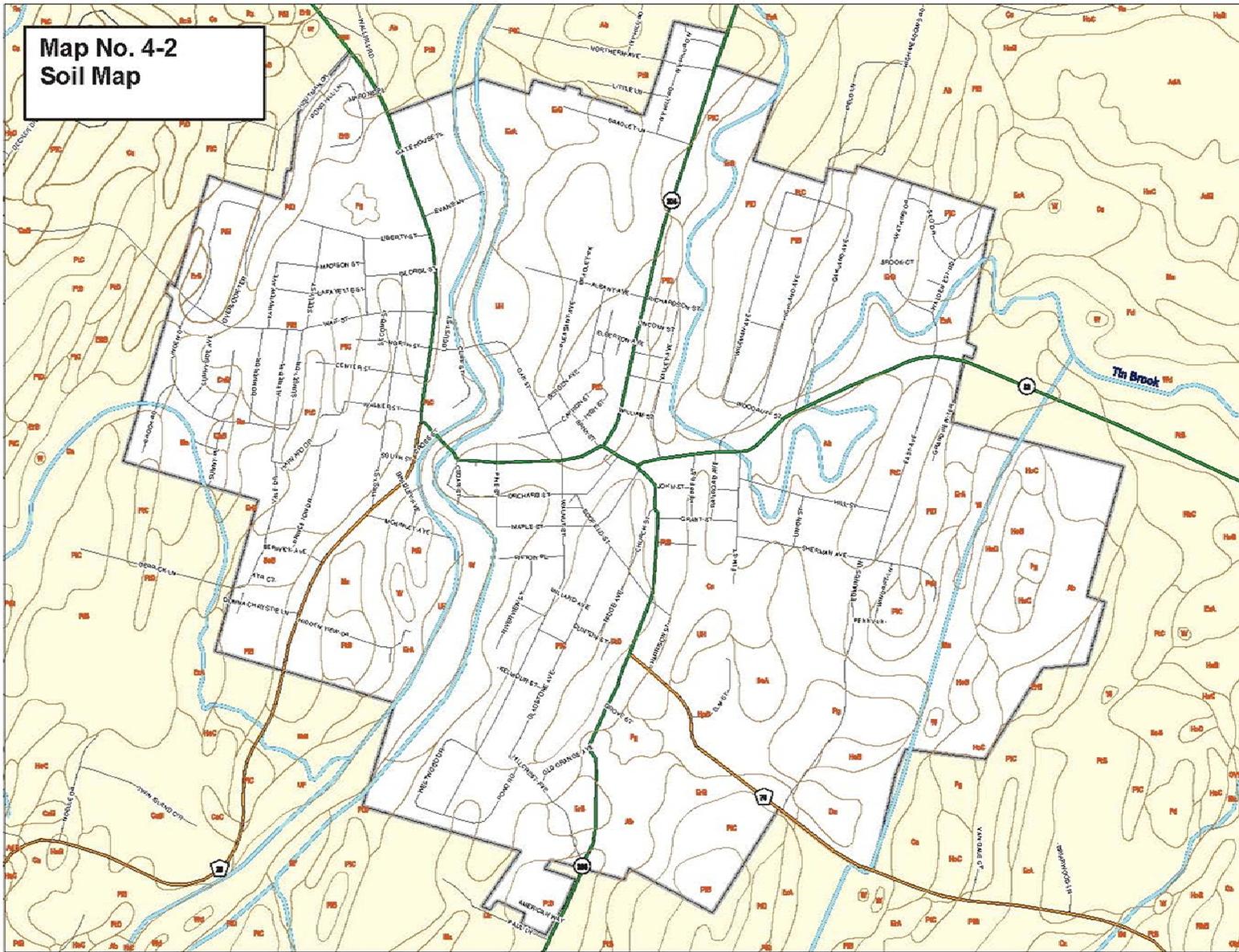
4.4 Soils

Proper siting of development must include an analysis of soil types within a community. Soils differ according to variations in composition, particle-size gradation, and compaction; factors which control permeability, porosity and strength. Each of these factors and depth to bedrock is important in determining how much and what kind of development the land is capable of supporting and how to properly treat stormwater as discussed above. Soil porosity and permeability is a major consideration in determining development capability. Hydric soils have poor potential for building development since wetness and frequent ponding are severe problems that are difficult and costly to overcome. Soils associated with steep slopes are also not well-suited to development as they are prone to erosion.

The U.S. Department of Agriculture & Natural Resources Conservation Service has mapped and classified soil types (see Map 4-2 and Map 4-3). However, these soil classifications are not site specific. It is useful to consider the specific soil conditions in a community in directing growth to areas that can support development without high construction costs. Therefore, any classification system needs to allow for detailed on-site soils testing by engineers for purposes of finding pockets of more suitable soils for development. A detailed description of the soil groups within the Village of Walden is available in the USDA Orange County Soil Survey.



Above (top to bottom): Illustrations showing bioretention systems which are intended to absorb nutrients from runoff. *Source:* Illustration from Virginia Department Conservation & Recreation.



4.5 Riparian Zones

A riparian zone is the border between land and a flowing surface water body that is densely populated with plant species. There is a well-defined riparian zone along the Wallkill River and Tin Brook within the Village of Walden.

Perhaps one of the most important qualities of the riparian buffer zone is its ability to control erosion, and thus, to prevent sediment pollution. In a stream surrounded by a riparian zone, sediment pollution is controlled. Riparian zones are densely populated with plant species and thus have intricate root systems that prevent erosion and undercutting of banks. In addition, the woody stems and grasses help to physically trap sediment by slowing down the water runoff from the surrounding area, allowing the sediment to settle out.

The branches, stems and leaves of these plants absorb the impact of raindrops. Decaying leaves and low-growing vegetation form a ground cover that further lessens the erosive force of raindrop impact. This groundcover slows runoff, increasing the amount of water absorbed into the soil and then released slowly into the stream, groundwater, or atmosphere. The water that is absorbed may contain nutrients, pesticides, and other pollutants that will eventually be taken up by plants or broken down over time. By slowing runoff, trapping sediments, and increasing absorption, these plants act as a living filter to protect water quality.

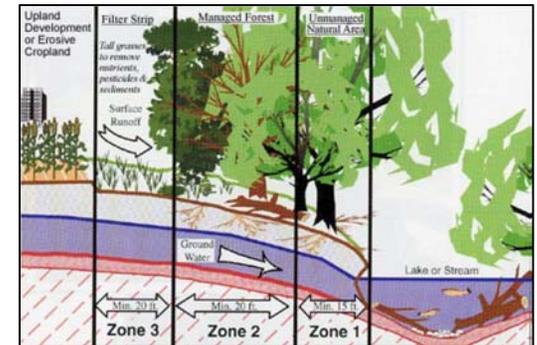
The riparian zones along the Wallkill River and Tin Brook thus play a vital function in helping to protect the water quality in these streams. The riparian zones

also play a very important role in helping to prevent excessive erosion of the stream banks during periodic flooding. With the onset of Hurricane Irene in 2011, the Tin Brook experienced severe flooding and the riparian zone helped to reduce erosion along the stream.

Waterfront vegetation also enhances habitat for wildlife and increases opportunities for wildlife viewing. Plants along waterways provide food and shelter for a variety of insects, amphibians, reptiles, songbirds, mammals and fish.

Maintaining or developing an attractive riparian zone can:

- Increase property values;
- Reduce property loss from excessing erosion;
- Protect water quality by filtering sediments and other contaminants;
- Discourage geese congregation;
- Enhance wildlife habitat by providing shade that reduces water temperature;
- Contribute to the natural beauty of the land;
- Dissipate noise from traffic, roads, and nearby properties;
- Reduce maintenance time and related costs;
- Provide privacy;
- Screen unsightly views; and
- Enhance scenic views.



Above (top to bottom): Illustration showing unmanaged natural zone, managed forest zone and filter strip (i.e. Zone 1, 2 and 3) and aerial views of riparian zones along the Wallkill & Tin Brook.

Research shows riparian zones are instrumental in water quality improvement for both surface runoff and water flowing into streams through subsurface or groundwater flow; particularly the attenuation of nitrate or denitrification of the nitrates from fertilizer. Riparian zones can play a role in lowering nitrate contamination in surface runoff from athletic fields, which runoff would otherwise damage ecosystems and human health by potentially infiltrating groundwater.

It is important to maintain the riparian zone along the Wallkill River and the Tin Brook in order to protect the quality of these streams.

4.6 Tree Preservation & Conservation

Trees, shrubs and other plant materials add four season living color, texture and visual interest to the landscape of the Village of Walden. Street trees, landscaped lawns, shrubs and other plantings throughout the community help to define the Village's small town charm and make it an attractive community in which to live and visit. It is thus important that the Village Board play an active role in conserving this natural resource and encouraging new tree plantings.

Throughout the Village, mature street trees are the most prominent form of plantings along the street. Street trees help to soften the hard surfaces of sidewalks, off-street parking areas and streets and help to define the pedestrian right-of-way by providing a buffer between the street and the sidewalk.

Over time the Village has lost a number of street trees due to age, disease and excessive pruning of

branches away from overhead utilities. Trees were also lost with recent sidewalk improvements, but new street trees were planted with the new streetscape improvements.

On residential streets, street trees should be planted within a planting strip between the sidewalk and the curb. When selecting a tree species, consideration must be given to the size of the mature canopy and root system, so that trees will not compete for light or nutrients. Species must also be selected that are hardy and tolerant of road salts deposited during the winter months.

Street trees provide many community benefits. There are studies that show that drivers tend to drive slower on streets that are lined with street trees. The trees provide a canopy that encloses the street that creates a calming effect. Street trees also help to protect air quality by absorbing carbon dioxide from automobiles and releasing oxygen. A large mature canopy of leafy deciduous trees also helps to absorb noise generated from traffic that in turn reduces ambient noise levels within the Village. Trees also add to the natural beauty of the Village. Street trees also provide a physical and psychological buffer between the sidewalk and the street that makes pedestrians feel safer which encourages walking. Specific recommendations for conserving trees and encouraging new plantings are included in the summary of this chapter.



Above (top to bottom): Tree lined streets within the Village serve to provide a separation between vehicles and pedestrians on top of the environmental benefits.

4.7 Energy Conservation & Climate Change

4.7.1 New York Climate Smart Communities

The Climate Smart Communities (CSC) program began in 2009 as an interagency initiative of New York State. The original focus of the program was on encouraging local governments to commit to act on climate change by passing a resolution containing the 10-point CSC Pledge. In July of 2019, the Village Board adopted the Climate Smart Pledge which is the first step to joining the program. In order to be designated a Certified Climate Smart Community, a municipality must go beyond the CSC Pledge by completing and documenting a suite of actions that mitigate and adapt to climate change at the local level.

The Climate Smart Communities (CSC) Certification program comprises more than 100 actions for which a local government can earn points toward being designated as a Certified Climate Smart Community. The Village is currently in the process of selecting the specific action items which are most appropriate for Walden but steps will include creation of a CSC Task Force, preparation of a Climate Action Plan which outlines a set of initiatives that reduce greenhouse gas (GHG) emissions and overseeing energy audits for municipal buildings and facilities to understand where improvements can be made. The Village should continue to work towards completing the criteria to become a designated CSC and seek any grants which could offset costs of various programs.

4.7.2 LEED

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System is a voluntary standard for developing high performance, sustainable buildings. Members of the U.S. Green

Building Council (USGBC), representing all segments of the building industry, developed LEED. LEED standards have been developed for new commercial construction, major renovation projects, existing building operations and commercial interior projects.

LEED defines quantifiable measures for rating development projects based upon the number of points achieved by a project, out of a 69 possible.

Within the rating system six (6) general LEED categories: Sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, and innovation in design. Each of these categories impacts the overall LEED score.

The Village should encourage the use of LEED technologies in the design of new buildings. The Planning Board when reviewing developments should ask applicants to consider the placement of new buildings in a manner that maximizes energy efficiency and sustainability. The Village should provide education and outreach regarding LEED techniques in order to raise community awareness of its benefits.

4.8 Night Sky

The inappropriate or excessive use of artificial light – known as light pollution – can have serious environmental consequences for humans, wildlife, and our climate. Components of light pollution include:

- **Glare** – excessive brightness that causes visual discomfort
- **Skyglow** – brightening of the night sky over inhabited areas
- **Light trespass** – light falling where it is not intended or needed
- **Clutter** – bright, confusing and excessive groupings of light sources

A number of residents have also spoken of the night sky as a natural resource that must be protected. The Planning Board can do its part to preserve night sky by ensuring that lighting is sufficient for the proposed land use but not excessive. To this end, it is recommended that lighting be limited to 2.0 foot-candles within off-street parking areas and that lighting be designed in a manner that keeps the light entirely on the subject site, away from adjoining properties, and out of the night sky.

To accomplish this goal, the Planning Board should require developers to install lighting fixtures with a horizontal cutoff lens so that light is directed to the ground and not into the night sky. The Village should also encourage its residents and businesses to employ night sky friendly lighting techniques such as adding hoods to area floodlights, replacing existing yard lights with those fixtures that include an opaque reflector and using downlit lighting for signage.

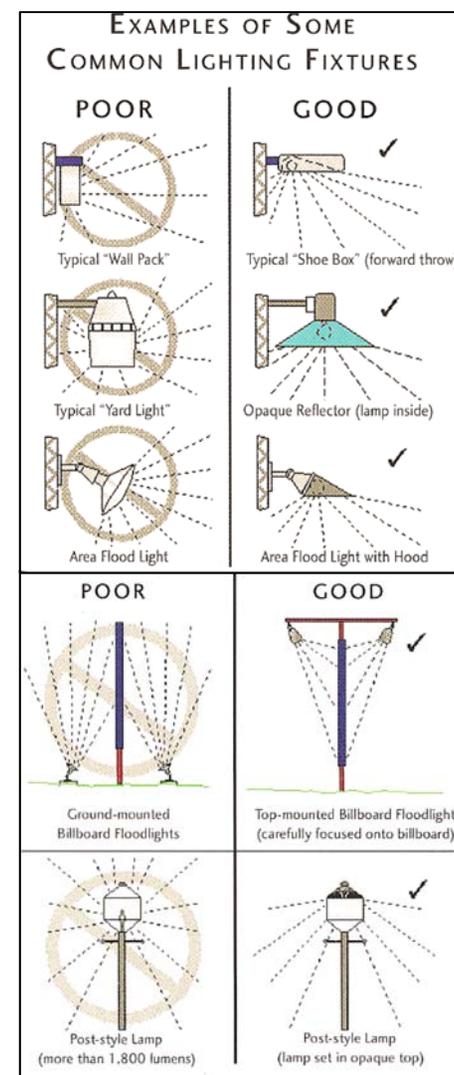
The Otsego County Conservation Association has developed a pamphlet that addresses light pollution called “Starry Nights in Otsego County.” The Planning Board is encouraged to use the illustration from this pamphlet as a guide.

4.9 Invasive Plants & Animals

It is a policy of this Plan to support invasive plant and animal eradication efforts. Invasive species are non-native species that can cause harm to natural ecosystems resulting in a wide range of environmental, recreational and economic impacts. The NYSDEC has identified invasive species as a significant threat to the State’s biodiversity - second only to habitat loss.

The Village’s economy is dependent on the health of its ponds and streams that provide boating, fishing and swimming opportunities. Once introduced into water bodies, aquatic invasive plants spread rapidly, congest waterways and disrupt native fish populations. Invasive animals could decimate local fish populations. Once infested, ponds and rivers can become unusable and this could adversely affect the local economy as the quality of these natural resources is diminished.

It is recommended that the Village Board work with New York State Department of Environmental Conservation to identify threats related to invasive species. Examples include Japanese Knotweed, Purple Loosestrife and other invasive plants. When identified, the Village Board should reach out to partner with the NYSDEC to secure funding through their Invasive Species Eradication grants to help eradicate invasive species. State funds can be used to pay for up to one half of the total costs of a selected eradication project.



Source: Otsego County Conservation Association, “Starry Nights in Otsego County”

4.10 Recommendations

There are a variety of land use policies that the Village can employ to protect its natural resources including the following:

4.10.1 Steep Slopes

Identify steep slopes (over 15%) as part of a site assessment prior to developing the building site and road design in order to acknowledge and maintain the hillside character and natural features of the site. This approach can help to minimize site grading and retain the natural and topographic character of the site.

4.10.2 Water Resources

Create wellhead protection and aquifer protection overlay districts. The Village obtains its water supplies from wells that are situated within the Town of Montgomery. The Village must take additional steps to protect its potable water supply by limiting certain land uses within close proximity to its wells and/or developing additional standards for land uses within its aquifer recharge areas. This will require cooperation with the Town of Montgomery.

Follow NYSDEC requirements to maintain a 100-foot setback between development and adjacent wetlands. During the site plan and special permit review process, applicants must be required to show existing wetlands and required setbacks on site plans and provide appropriate water quality mitigations to ensure long term protection.

Restrict the development of buildings and impervious surfaces within the 100-year floodplain. Carefully review applications for development in the 100-year floodplain. Participate in FEMA programs to help prevent future loss of property and life due to flooding.

Require Storm Water Pollution Prevention Plans (SWPPP) in accordance with the current NYSDEC stormwater management design manual. SWPPP's help to ensure that post-development runoff rates from a site do not exceed predevelopment rates. Such plans provide for treatment of runoff and release of runoff at controlled rates to protect the quality of surface waters and prevent flooding from storm events. Encourage the use of bio-retention basins and other green practices as a part of the overall site plan or subdivision plan and ensure property long term maintenance is established and agreed to by the developer.

4.10.3 Soils

Where proposed development involves grading of the site or cutting and filling operations require a Sediment & Erosion Control Plan. Generally, development on sites should work with the topography of the site and avoid excessive grading of the site. Where grading is proposed, a sediment & erosion control plan should be provided.

4.10.4 Riparian Zones

Restrict the cutting of trees along the banks of the Wallkill River, Tin Brook and other major surface water resources. The clearing of trees on the banks of the Wallkill River should be prohibited. Create a public information brochure regarding the importance of retaining the riparian zone along the Wallkill River and Tin Brook. The Village should take proactive measures to educate the public about the importance of retaining mature trees within the riparian zones.

4.10.5 Tree Preservation & Conservation

Enforce landscaping and street tree standards for new developments. Developers should provide a landscaping and street tree plan for the development and redevelopment of properties. Strictly enforce tree survey and tree clearing permit laws. Require developers to provide a tree survey showing all trees in areas to be developed with a caliper of over eight (8) inches when seeking site plan or subdivision approval. Use this tool to conserve as many mature trees on site as possible and take the additional step of developing standards for the planting of street trees associated with all new development.

4.10.6 Encourage Leadership in Energy Conservation and Design (LEED).

The Village should encourage the use of LEED technologies in the design of new buildings. The Planning Board when reviewing developments should ask applicants to consider the placement of new buildings in a manner that maximizes energy efficiency and sustainability. The Village should provide education and outreach regarding LEED techniques in order to raise community awareness of its benefits.

4.10.7 Night Sky

Require developers to install lighting fixtures with horizontal cutoff lenses and require lighting plans to be provided for Planning Board review so potential impacts can be evaluated. This will protect night sky by directing light to the ground and avoid the spillover of light onto adjoining properties or into the night sky.

4.10.8 Invasive Plants & Animals

Support local efforts to eradicate invasive plants and animals. Invasive species can adversely affect the natural ecosystem if left unchecked. When identified, it is recommended that these species be eradicated before they spread and cause greater harm to the local ecosystem. There are a variety of grant opportunities through the New York State Department of Environmental Conservation (NYSDEC) to assist communities with the eradication of invasive species.