



WAVERLY GLEN PARK



MASTER PLAN



VILLAGE OF WAVERLY
GLEN PARK
Open Daily
8:00 a.m. till Dark

CLOSED

MASTER PLAN WAVERLY GLEN PARK

07/27/17



Project Location:

Waverly Glen Park
Waverly, NY 14892

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TABLE OF CONTENTS

Executive Summary	1
Project Goals & Objectives	2
Inventory	6
Existing Conditions	18
Proposed Master Plan	20
Master Plan - Park Entrance	22
Master Plan - Small Pavilions	24
Master Plan - Large Pavilion	26
Master Plan - Waterfall	28
Master Plan - Water Filtration Building	30
Anticipated Regulatory Approval & Permits	32
Projected Estimate of Probable Costs	34
Implementation strategies	36
Funding Sources	38
Sign Recommendations	41
Appendix	45



EXECUTIVE SUMMARY

A. PROJECT DESCRIPTION

The purpose of developing a Waverly Glen Park Master Plan is to establish a future design vision, goals and implementation strategies for this well used community park in the southwest quadrant of the Town of Barton. The first organized plan for this park since it was established in the early 1950's. The Master Plan proposes new or upgraded facilities, enhancements and recreational improvements to be considered in the park. Additionally, the Waverly Glen Park's relation to the adjacent Two Rivers State Park was considered to increase trail and recreational access to this 375 acre facility to enhance the two Parks as a regional tourism destination in Tioga County. The drawings and other documents prepared describe phasing and strategies to be used in implementing the plan. An estimate of the probable Phase 1 costs to improve the park is also included.

This Master Plan effort further evaluates environmental and physical potentials and constraints, provides current information on trail connections and signage, probable construction costs, implementation, and funding of the proposed facilities. In addition, the Plan supports and complements the river communities' Comprehensive Plans and adds design elements that support the principles of a walkable community. Potential funding sources through the New York State Consolidated Funding Application (CFA) were identified early on to assist with implementation of the priority projects.



Trails, Waverly Glen 6/23/17

B. PROCESS

A User survey was prepared and distributed through Village venues and Memorial Day festivities to gain local resident input into needed facilities and priorities. A summary of the results are found in the Appendices. Consultant team representatives participated in a tour of the park resources and multiple informational meetings organized by the Advisory Committee. Additional meetings with the Two Rivers State Park Committee were attended along with stakeholder and key Agency contacts.

The Master Planning process follows a recommended progression we have used for over 15 years on similar projects and endorsed by the New York State Parks Office of Parks Recreation and Historic Preservation. This process relies heavily on stakeholder and public input and involves the following steps:

1. Project Initiation and Research
2. Base Plan Preparation for the Park
3. Site Analysis/ Potentials and Constraints Identification
4. Needs Assessment (Public Survey)
5. Development of Concept Plans
6. Schematic Cost Estimates
7. Implementation Strategy Based on Outside Funding and Local Support
8. Final Master Plan
9. Final Summary Report.

PROJECT GOALS & OBJECTIVES

A. OVERALL GOALS AND OBJECTIVES

Goals provide the long-term vision and serve as the foundation of the plan. The Waverly Glen Advisory Committee with direction from their consultant team established several goals based on the overall project purpose. These goals were fine-tuned in response to the needs assessment from the 2012 Susquehanna Heritage Area Management Plan and input from the local public through the User Survey.

Goal 1:

To provide options to increase public access within Waverly Glen Park and its natural resources, and provide improved connections to the adjacent Two Rivers State Park, to encourage recreational opportunities.

Objectives:

- The plan must connect and expand the trails in both parks and provide accessible linkages to points of interest and natural character areas.
- Establish enhanced public access points to the trails and recreational/open space opportunities, including access to the Dry Brook and Reservoir edge and improved access for mountain bikers and hikers.
- Collaborate with the NYS Parks Trails Committee to connect the trail systems of both parks and provide new trail head connections to the Waverly Glen and Two Rivers State Park trail network.
- Develop a trail system that provides universal and safe access for walkers, bicyclists, joggers, picnic users, and fishermen, with good signage.
- Provide a separate trail loop with the Glen Park for park users.
- Provide additional regional connections to existing Carantouan Greenway trail segments and other established trails or designated bikeways.

Goal 2:

To identify and outline key Environmental, Historical/Cultural, and Public Safety issues that will impact the development potential of the Waverly Glen Park and consider added recreation and tourism opportunities of both parks in early planning phases.

Objectives:

- The trail should take advantage of the geology of the region and the history that the Dry Brook watershed has had over the years in molding the glen, reservoirs and existing land uses.
- Explore sustainable solutions within the Dry Brook watershed and proposed developments.
- Avoid impacts to ecological systems, which may upset natural balances, or areas that contribute to the character of the water resources. (These sensitive riparian areas, controlled locally by manmade features, offer educational opportunities into understanding the ecology, habitat, and watershed systems).
- Promote Eco-tourism initiatives to support rural economic development.
- Enhance natural areas and scenic vistas, for public use and enjoyment.
- Ensure that flood risks and public safety concerns are considered in the proposed trail development and access options.
- Provide physical connections to local historic resources, districts, or heritage areas

through signs.

- The trail system must utilize public lands wherever possible so as not to interfere with private residents or cemetery visitors.
- Proposed facilities should be accessible with nearby parking and provide an atmosphere where the people using the system feel safe. This reflects directly on the ability of the municipalities and agencies to service, police, and secure the facilities and trails.
- Proposals should promote local family activities, tourism, and be a catalyst for economic development within the Village of Waverly and Town of Barton.
- Concepts should consider current and future public works initiatives including those identified in the Comprehensive Plans, or provided by municipal/water board representatives.

Goal 3:

To recommend updated park development options and public amenities to accommodate a wider range of users.

Objectives:

- Improve the function and appearance of the park entrance to reduce pedestrian/vehicle conflicts and better connections to residential areas via sidewalks and shared roadway with bicyclists.
- The park should provide added open picnic and pavilion gathering spaces.
- Improve parking efficiency and maintain the current parking opportunities within the park. Provide handicap parking.
- Explore restoration of the ridge trail and overlook.
- Improve the safety and user experience at the waterfall area.
- Improve universally accessible restrooms, play equipment, trails and access to natural resources including the waterfall.
- Retain natural open space for lawn games and sustainability of the mature trees and shade.
- Improve the main road access and safety by widening the pavement and striping for two-way traffic.
- Propose a new use for the abandoned water filtration plant.

Goal 4:

To recommend a logical phasing of implementation and management structure to sustain the park development goals.

Objectives:

- The plan must be realistic in terms of cost and implementation. Funding of major projects may be limited to grants with financial support through Village and stakeholder in-kind services.
- Consider 'piggybacking' onto other infrastructure projects to realize completion of roadway and trail improvements.
- The proposed improvements should be identified in logical sections that could be implemented in phases appropriately over a multi-year schedule.
- Explore additional funding sources and provide recommendations early on in the planning for the Village/County/Town to consider and pursue within the first three years.
- Recommend a management structure that is supported by public and private sources and retains regional representation.

Goal 5:

To recommend sustainable streambank stabilization practices to upgrade and improve the channelized Dry Brook corridor and make the resource more accessible to visitors.

Objectives:

- The plan must seek outside assistance with engineering and financial support through State and County sources.
- Erosion controls and stabilization of eroded banks near the waterfalls will require professional input to assure proper bioengineering techniques and aesthetics.
- Provide for improved stabilization and visual/physical access controls to the pool at the base of the waterfalls and slopes of the adjacent Glen.

B. SIGNAGE RELATED GOALS & OBJECTIVES

Goal S-1:

Create a distinctive signage standard that will brand the Waverly Glen Park and Two Rivers State Park.

Objectives:

- Use sign materials and forms already present throughout the Parks.
- Incorporated natural and cultural influences of this area into sign design.
- Develop a timeless and strong identifiable logo to brand the Parks.

Goal S-2:

Increase park and trail usage and efficient wayfinding throughout the parks and trail system.

Objectives:

- Increase directional and orientation signage at key locations with the Village and Parks to direct users to destinations.
- Provide local wayfinding points of interest in proximity to park/trail segments within a 1 mile radius.
- Increase park/trail visibility from primary roadways through the use of “Trailblazer” and Directional signs.
- Provide destination distances up to 2 miles for municipalities and other neighboring trail segments of the Waverly Glen Park and Two Rivers State Park.

Goal S-3:

Provide visitors with useful information about our cultural and historical identity.

Objectives:

- Provide interpretive panels where historic, cultural and ecological information or destinations are relevant and contextual.
- Promote regional preservation and stewardship of the Susquehanna Heritage Area’s resources.
- Strengthen regional identity through interpretation and education of the region’s history.

Goal S-4:

Provide elements for a marketing program to widen the audience, and promote the regions historic, cultural and recreational attributes while increasing visits to the Susquehanna Heritage Area resources, Waverly Glen Park and Two Rivers State Park.

Waverly Glen Historic Sites

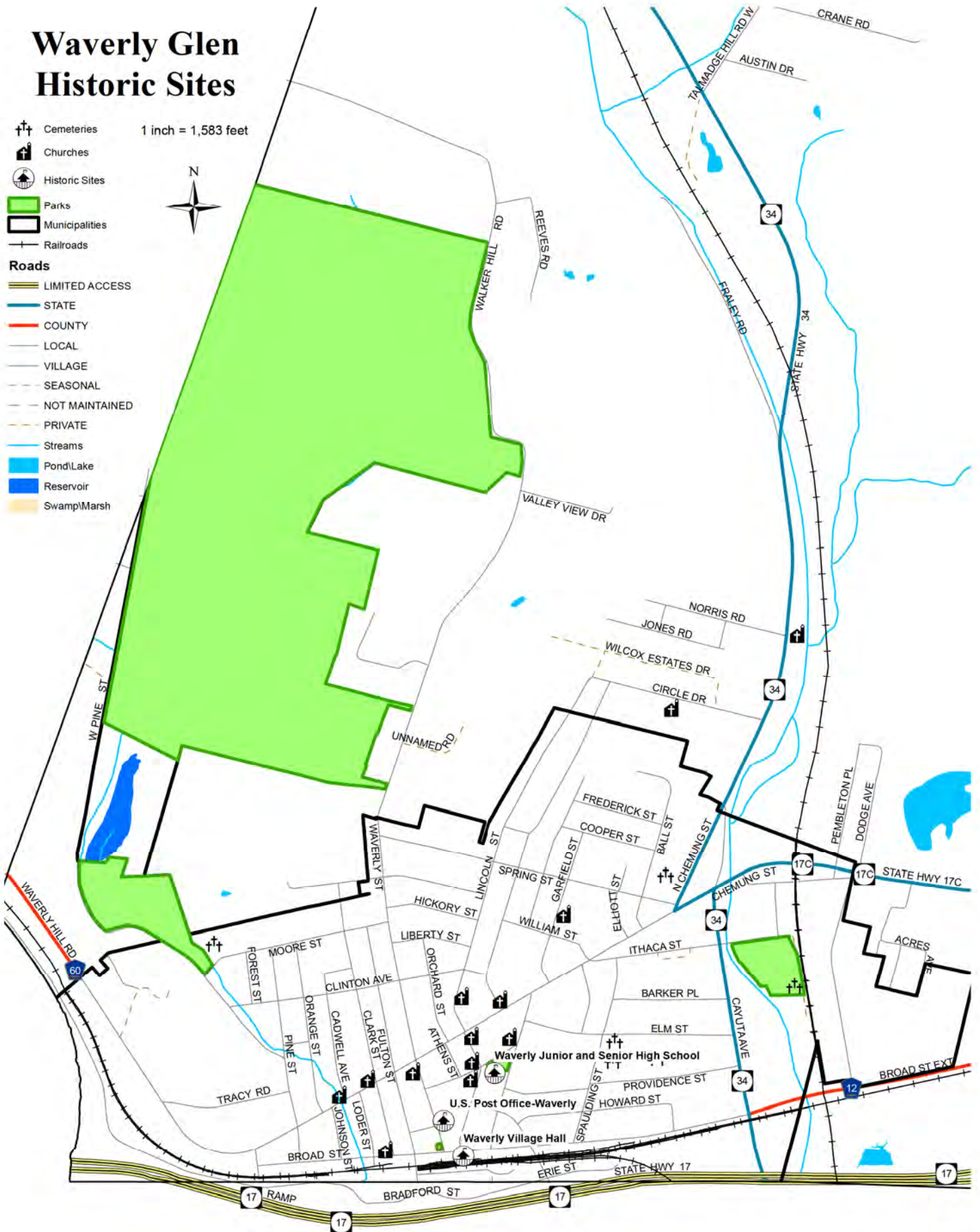
- Cemeteries
- Churches
- Historic Sites
- Parks
- Municipalities
- Railroads

1 inch = 1,583 feet



Roads

- LIMITED ACCESS
- STATE
- COUNTY
- LOCAL
- VILLAGE
- SEASONAL
- NOT MAINTAINED
- PRIVATE
- Streams
- Pond/Lake
- Reservoir
- Swamp/Marsh



0 0.05 0.1 0.2 0.3 0.4
Miles



Waverly Glen Hydrology

- Parks
- Municipalities
- Roads**
 - LIMITED ACCESS
 - STATE
 - COUNTY
 - LOCAL
 - VILLAGE
 - SEASONAL
 - NOT MAINTAINED
 - PRIVATE
- Streams
- Brownfields
- Pond/Lake
- Reservoir
- Swamp/Marsh

FEMA Flood Zones 2012

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- 1.0 PCT ANNUAL CHANCE FLOOD HAZARD
- Primary Aquifers
- Principal Aquifers

1 inch = 1,447 feet



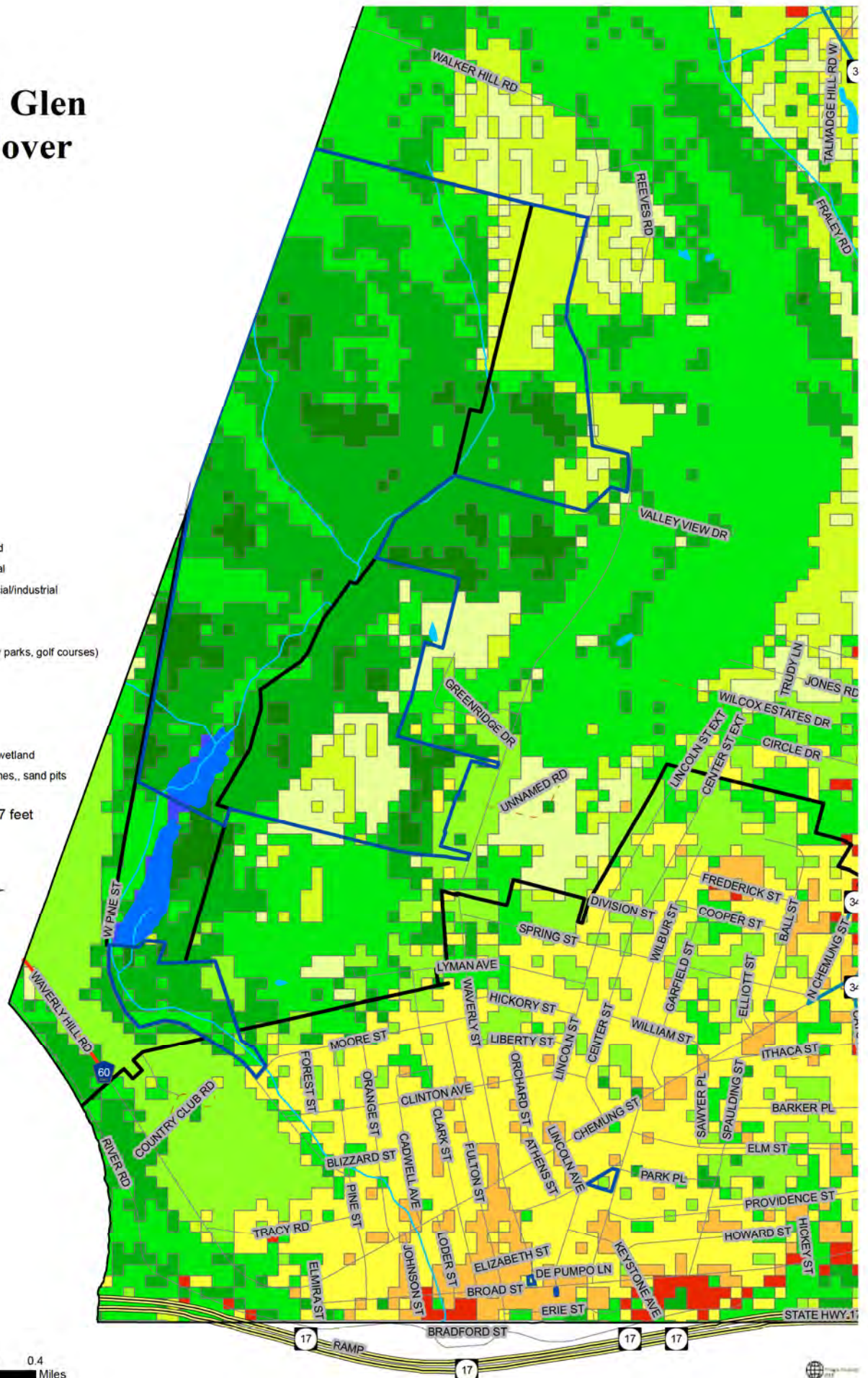
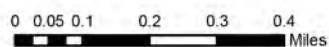
0 0.05 0.1 0.2 0.3 0.4 Miles



Waverly Glen Land Cover



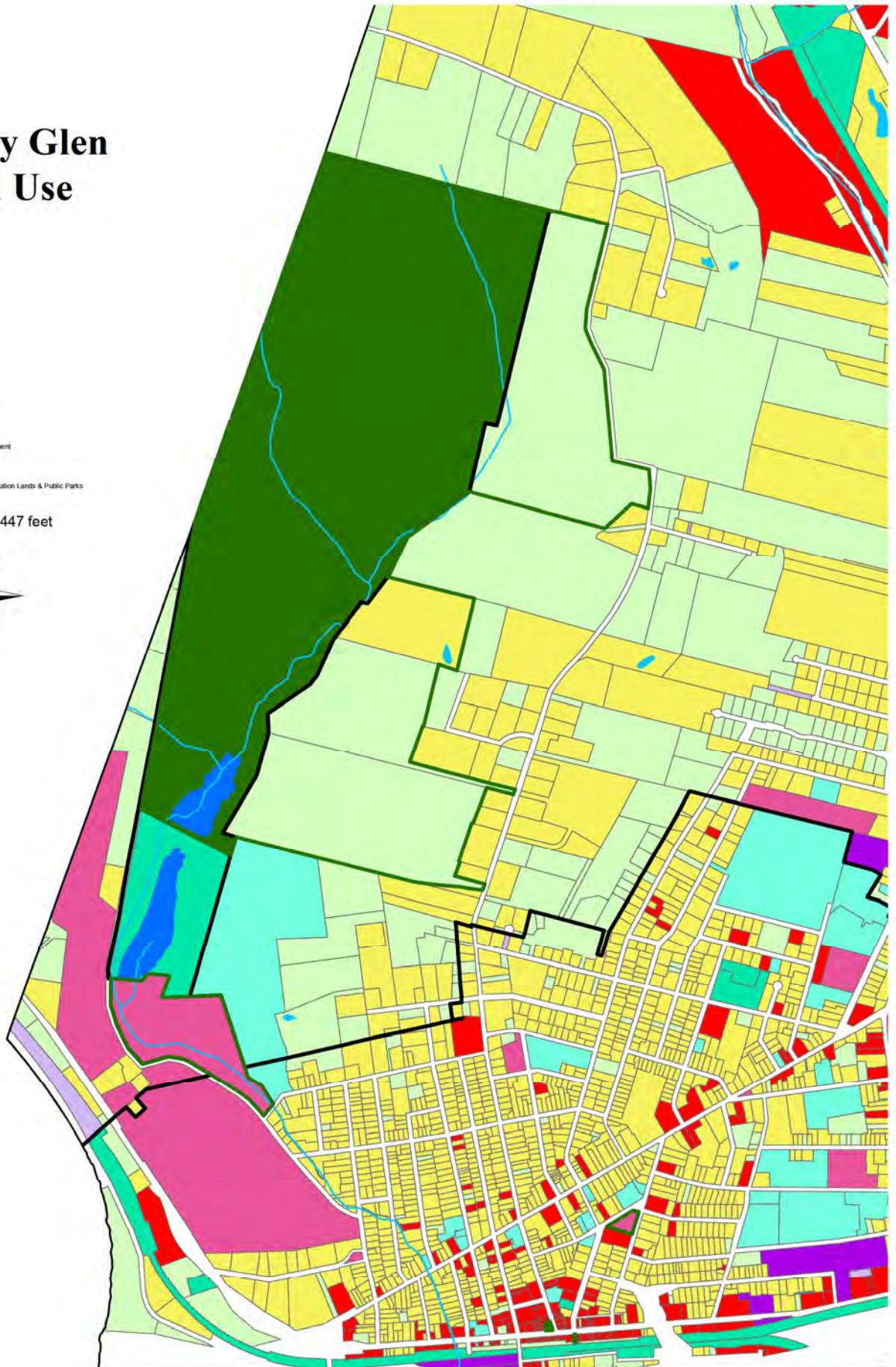
1 inch = 1,447 feet



Waverly Glen Land Use

-  Parks
-  Municipalities
-  Streams
-  Pond/Lake
-  Reservoir
-  Swamp/Marsh
- Land Use**
-  <all other values>
-  Agricultural
-  Commercial
-  Community Services
-  Industrial
-  Public Services
-  Recreation & Entertainment
-  Residential
-  Vacant Land
-  Wild, Forested, Conservation Lands & Public Parks

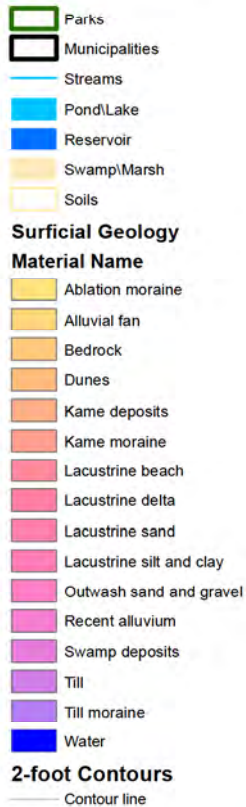
1 inch = 1,447 feet



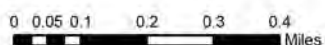
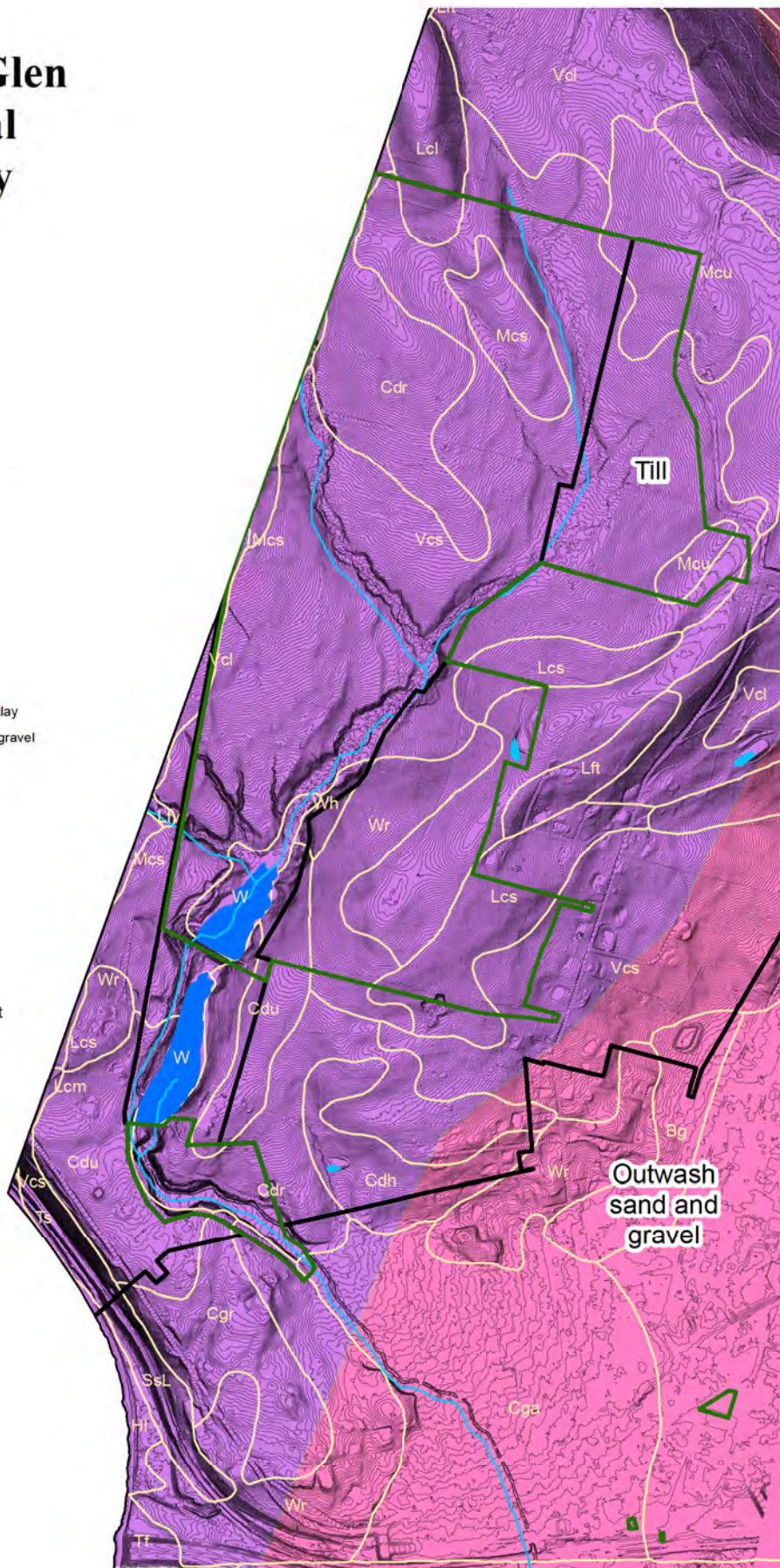
0 0.05 0.1 0.2 0.3 0.4
Miles



Waverly Glen Surficial Geology



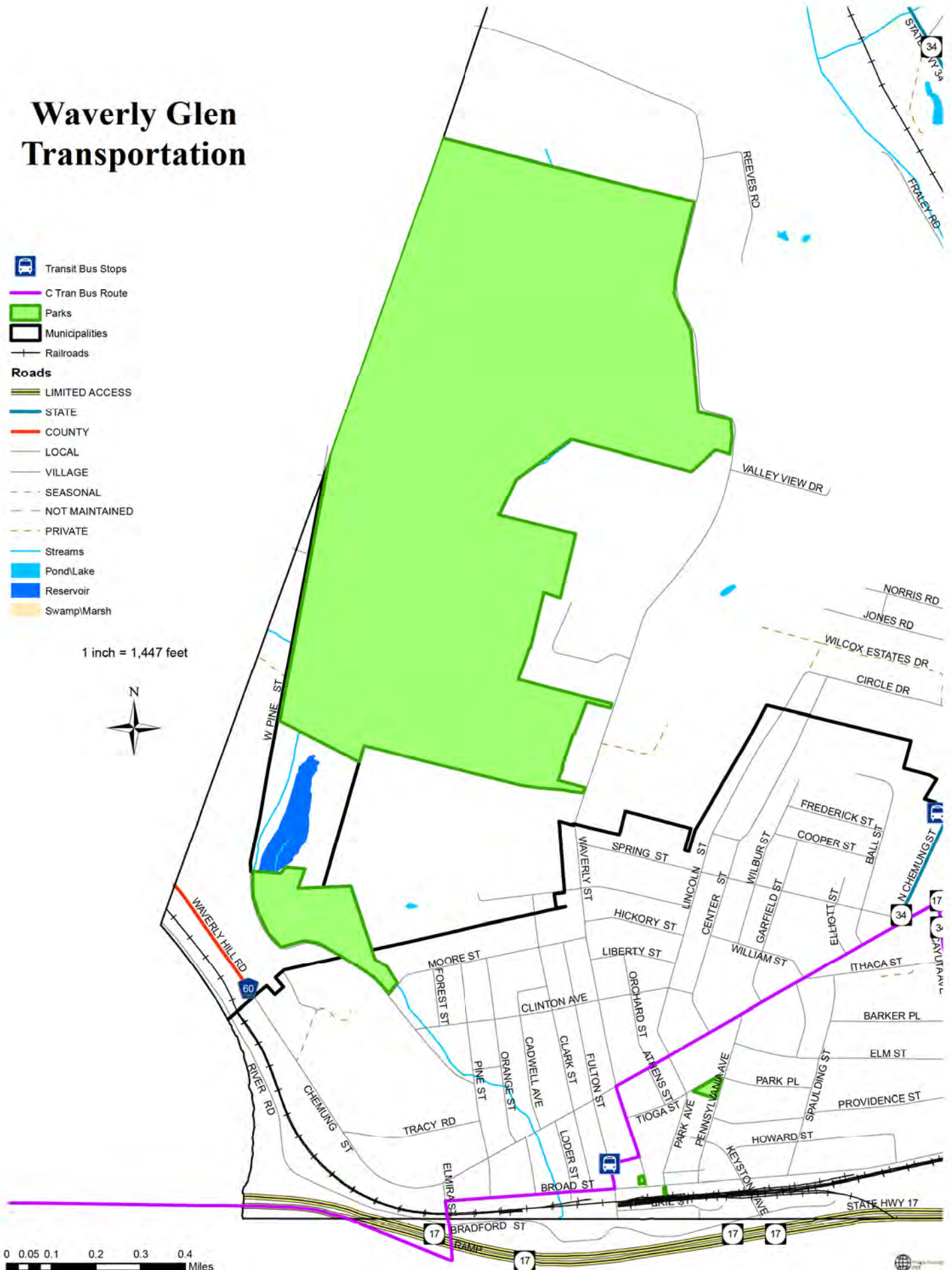
1 inch = 1,447 feet



Waverly Glen Transportation

-  Transit Bus Stops
-  C Tran Bus Route
-  Parks
-  Municipalities
-  Railroads
- Roads**
 -  LIMITED ACCESS
 -  STATE
 -  COUNTY
 -  LOCAL
 -  VILLAGE
 -  SEASONAL
 -  NOT MAINTAINED
 -  PRIVATE
-  Streams
-  Pond/Lake
-  Reservoir
-  Swamp/Marsh

1 inch = 1,447 feet





INVENTORY

INTRODUCTION

Any planning process must start with an evaluation of existing conditions in the region. The inventory and analysis component of the Waverly Glen Park Master Plan has included research, fieldwork, and mapping of existing land uses and the physical characteristics of the Village of Waverly. All these existing conditions join together to create the environmental framework which informs the planning process.

Natural conditions, existing uses, infrastructure, and development controls in the Village of Waverly were reviewed and mapped consistent with the Tioga County requirements. The following is a list of maps prepared for this study.

Existing Conditions Maps:	PAGE NO:
Historic Sites	7
Hydrology	8
Land Cover	9
Land Use	10
Surficial Geology	11

SOURCE

Maps were produced by Tioga County GIS Department.

POPULATION

Tioga County comprises about 315,000 acres and has a population of about 50,000. The County is rural in character, with an average population density of fewer than 7 people in a square mile. The largest village in Tioga County at 2.3 square miles, Waverly is located in the southwest part of the Town of Barton with a population of 4,444 (2010 Census).

CHARACTER OF REGION

Tioga County is known for its steep and wooded rural scenery and historic small town character, both of which are owed, in large part, to the presence of the Susquehanna and Chemung Rivers. The rivers cut the steep adjoining hillsides and open up distant views, as well as providing the tranquil beauty of the large meandering waterway itself. Settlements developed early, following the food and transportation opportunities offered by the rivers. The importance of the rivers for transport of goods caused the early prosperity and importance of towns like Owego, which in turn provided the wealth to develop the many historic buildings, creating the attractive appearance of the area today.

TOPOGRAPHY - see Map p. 13

Tioga County lies within a geological region called the Allegheny Plateau. It is a region of sandstone and shale bedrock covered by 1 to 3 meters of unsorted glacial till made up of clay, sand, gravel and boulders. The weight of the glacier created the layer of hardpan found in many upland areas in Tioga County, while the outwash streams during the era of glacial melting left the deposits of sand and gravel found in the lowlands.

EXISTING LAND USE - see Map p. 12

The existing land uses within the park are as follows:

COMMUNITY SERVICES

PUBLIC SERVICES

RECREATION & ENTERTAINMENT

WILD, FORESTED, CONSERVATION LANDS & PUBLIC PARKS

VEGETATION (Tioga County Summary)- see Map p.11

Before European settlement, Tioga County was almost completely woodland, with open meadows on the tributary deltas and in wetland areas. Development, and therefore, clearing, have occurred first on the more level ground of the valley, and in a more limited fashion up the surrounding hillsides. Most of the steeper hillsides remain wooded today.

WETLANDS

There are no wetlands in Waverly Glen Park, according to the National Wetlands Inventory Maps (NWI).

FLOODING - see Map p. 10

Flooding is a cyclic problem throughout the Village of Waverly as significant portions of the riverine and tributary stream corridor is within the 100 year floodplain. Periodic serious flooding has been damaging to the municipalities located within the designated FEMA flood boundary. Town of Barton and the Village Of Waverly - The Federal Emergency Management Agency (FEMA) flood insurance rate map (FIRM), has determined the areas in the Village of Waverly that are prone to flooding. They are described as SFHA's (special flood hazard areas) as follows:

- a. The Reservoir and Dry Brook areas. These areas include many streets in the Village including Broad Street, Clark St., Loder St., Johnson St., Chemung St., Orange St., Blizzard St., West Pine St., Moore St., Clinton St., Forest St. And Caldwell St. These areas are primarily residential and commercial and include forty-two businesses, seventy-two homes, two churches, one VFW and two municipal buildings.
- b. The Cayuta Creek area. This area includes Chemung St., Mill Hill Rd., Cayuta Ave., Providence St., Elm St., Ithaca St., Charles St., East Chemung St. and the Donnelley Parkway. The majority of this area is residential with fifty-nine homes, five businesses, one fire station, one municipal well, the Village sewer treatment plant and a Village park.
- c. The Chemung River area. There are no real hazards in this area due to controls such as the retaining wall on River Road.
- d. Some commonly affected structures are the Village Hall Annex, the buildings and grounds of East Waverly Park and various retaining walls.

Sources: Tioga County Township Flood Maps (1996); Federal Insurance Administration National Flood Insurance Program, "Village of Waverly, NY: Flood Mitigation Plan" Tess Grub, Southern Tier East Regional Planning Board.

EROSION

Erosion is a significant problem throughout the Village of Waverly due to highly erodible soils, as well as detrimental land uses along the shores of the rivers and streams. Gravel mining and agriculture are two land uses that contribute to erosion and sedimentation. Segmentation and reduction of the buffer vegetation along these corridors also add to the erodibility of these riparian zones. Some of the more sensitive areas are noted below.

- a. Dry Brook, Village of Waverly - 1 mile of stream
- b. Cayuta Creek, Village of Waverly - full length

Sources: digital FEMA information obtained from Tioga County Department of Planning and Economic development (1998), with data from the Federal Insurance Administration National Flood Insurance Program (NFIP); and Tioga County Township Flood Maps (1996).

EXISTING RECREATIONAL & OPEN SPACE RESOURCES

A number of parks, nature centers, golf courses, racetracks, and other recreational opportunities are available within or very near the Village of Waverly. Most are small, local facilities. A greater concentration of recreational resources exist from the Village of Owego and eastward. An under-served stretch runs along the north side of the Susquehanna, from Owego to Waverly.

Sources: Tioga County Department of Planning Tax Maps, (1998); Tioga County Department of Tourism & Development; (1998) Tioga Real Property Data, (1998); Haas Landscape Architects fieldwork, (1998-99)..

TRANSPORTATION - see Map p. 14

Highways and their interchanges represent the primary access corridors and points with the county. Within the area lie:

- a. Interstate 86 (New York State Route 17) - Regionally known as the Southern Tier Expressway, a limited access, four lane divided highway that runs in an east-west direction across the southern part of the county, skirting Owego, Nichols and Waverly. Route 17 connects Waverly to the urban areas of Elmira/Corning on the west and to Binghamton on the east. In Tioga County, there are seven Route 17 interchanges; one at Apalachin, two at Owego, one at Lounsberry, one at Nichols, and two at Waverly.
- b. New York State Route 34 - Also two-lane, Route 34 extends north from NYS Route 17 at Waverly to Spencer, where it joins Route 96 and extends northward to Ithaca. After Ithaca, Route 34 continues north along the east side of Cayuga Lake.

SOIL INFORMATION - see Map p. 13

Material moved and deposited by glacial processes

Several terms are used for material that has been moved and deposited by glacial processes. Glacial drift consists of all of the material picked up, mixed, disintegrated, transported, and deposited by glacial ice or by water from melting glaciers. In many places glacial drift is covered by a mantle of loess. Deep mantles of loess are usually easily recognized, but very thin mantles may be so altered by soil-building forces that they can scarcely be differentiated from the underlying modified drift.

Glacial till.—This is that part of the glacial drift deposited directly by the ice with little or no

transportation by water. It is generally an unstratified, heterogeneous mixture of clay, silt, sand, gravel, and sometimes boulders. Some of the mixture settled out as the ice melted with very little washing by water, and some was overridden by the glacier and is compacted and unsorted. Till may be found in ground moraines, terminal moraines, medial moraines, and lateral moraines. In many places it is important to differentiate between the tills of the several glaciations. Commonly, the tills underlie one another and may be separated by other deposits or old, weathered surfaces. Many deposits of glacial till were later eroded by the wave action in glacial lakes. The upper part of such wave-cut till may have a high percentage of rock fragments.

Glacial till ranges widely in texture, chemical composition, and the degree of weathering that followed its deposition. Much till is calcareous, but an important part is non-calcareous because no carbonate rocks contributed to the material or because subsequent leaching and chemical weathering have removed the carbonates.

Source: USDA Soil Survey Manual - Chapter 3

MARDIN SERIES

Cdu - Mardin gravelly silt loam, 0 to 8 percent slopes

The Mardin series consists of very deep, moderately well drained soils on glaciated uplands, mostly on broad hilltops, shoulder slopes and backslopes. The Mardin series is found on valley sides, typically with gravelly silt loam from 0 to 20 inches, with minor components of Volusia, Bath, and Valois. Slope ranges from 0 to 50 percent. The depth to fragipan is 14 - 26 inches. Moderately well drained, the depth to the water table is about 13 - 24 inches.

Cdr - Mardin gravelly silt loam, 8 to 15 percent slopes

The Mardin series is found on valley sides, typically with gravelly silt loam from 0 to 20 inches, with minor components of Volusia, Bath, and Valois. The depth to fragipan is 14 - 26 inches. Moderately well drained, the depth to the water table is about 13 - 24 inches.

VOLUSIA SERIES

Vcs = Volusia channery silt loam, 8 to 15 percent slopes

The Volusia series consists of very deep, somewhat poorly drained soils formed in loamy till. These soils are on concave to planer landscape positions in glaciated upland areas. The Volusia series is found on hills and mountains, typically with channery silt loam from 0 to 72 inches, with minor components of Mardin and Chippewa. Slope ranges from 0 to 35 percent. The depth to fragipan is 10 - 22 inches. Somewhat poorly drained, the depth to the water table is about 6 - 18 inches.

HISTORIC SITES (Glenwood Cemetery and Mausoleum) - see Map p. 9

While there are a number of historic buildings and locations in the Village of Waverly, the most pertinent to this study is Glenwood Cemetery which adjoins Waverly Glen Park. Glenwood Cemetery is listed on the National Register of Historic Places, the following description is from the 2016 registration form:

"In 1895, a group of citizens realized that there was a need for another cemetery in the village. A cemetery association was formed and established Glenwood Cemetery as a non-sectarian cemetery. The cemetery contains 9 acres and two distinct periods of cemetery design: the 1895 section reflects the landscape-lawn movement that used the natural contours of the land to define its shape and placement of plots and monuments, and the upper section follows the philosophy of the memorial park movement that had its origins in the early twentieth century and promoted cemeteries as a place of quiet reflection."

The approach to the cemetery is via a large lawn that contains a historic stone and marble mausoleum, built in 1923 by S. C. Smith of Elmira and designed by local architect Claude W. Smith. The mausoleum is a neoclassical revival building, with a center pavilion and two side wings. The only family mausoleum in the cemetery is the Shelp Mausoleum, built in 1911. Charles Shelp was a farmer who was elected as village street commissioner several times. Another singular internment is the white bronze monument for Wells and Mary Colborn, the only one of its type in the cemetery. Colburn was a clerk and the monument was inscribed "Beloved by All" for his wife, Mary, who died in 1898. The only sculpture in the cemetery is on top of the monument for the Lyford family. A mother bird spreads her wings to protect two fledglings. Frederic Lyford (1853-1922) was a banker, and his son, Frederic Jr., (1895-1981) was a veteran of World War I. Roughly near the center of the lawn area is a pavilion, built in 2011 to house an 1852 cannon that was formerly on display near the center of the cemetery.

Monuments and markers differ in age and style with majority in the older section displaying late nineteenth and turn-of-the-century funerary symbolism, such as lamb figures for children, interlinked chains for Odd Fellows, etched letters for the family name, etched flowers and geometric designs.

In the early twentieth century, the word "Memorial" was added to the Glenwood name to signify that it was changing with the times, becoming more modern in appearance and practice. In 1946, a redesign of the cemetery created section M from the historic cemetery center. This section contains flat granite and bronze markers that are nearly flush with the ground. Over the years, the name reverted back to Glenwood Cemetery and the cemetery association turned ownership and management of the grounds over to the village in 1981."



*historic cannon in Glenwood Cemetery
near Waverly Glen Park entrance 4/13/17*



EXISTING CONDITIONS

LOCATION:

Located at the northwesternmost corner of the Village of Waverly, Waverly Glen Park is comprised of 60 acres of forest and park land surrounding the lower of two reservoirs that formerly acted as the Village's water supply. The Village park adjoins Two Rivers State Recreation Area (over 500 acres) at its northern boundary and the Village-owned Glenwood Cemetery (67 acres) on its eastern boundary. A private golf course (Club at Shepard Hills) lies along the west boundary of the park, separated by West Pine Street. The southeast corner of the park opens on a residential neighborhood.

PHYSICAL CHARACTERISTICS:

The developed portion of the park lies almost entirely within the narrow valley (glen) formed by "Dry Brook", and is dominated by mature hardwood trees and mowed lawn. Dry Brook runs along the northern edge of this section in a channelized bed between the steep edges of the glen and a series of concrete retaining walls. A public road follows the toe of the slope on the southern side of the developed area. Between the stream and the road are 4 asphalt parking areas, 4 pavilions, 2 tennis courts, and various play equipment. At the northwestern limit of the developed portion of the park, a trail leads to a 50' waterfall and clearing at the base of the lower reservoir's earthen dam.



developed portion of the park 5/18/17

The slopes above the developed area, and the upland portions of the park are heavily forested with a mixture of deciduous and evergreen forests. These wooded areas are crossed by a network of formal and informal hiking trails. At the upland portion of the park nearest the earthen dam, a 3.2 acre clearing contains two water towers (that contain the Village of Waverly's current water supply) fenced off with a barbed-wire topped chain link fence, as well as a defunct 12,200 square foot water filtration building. This clearing is connected to Glenwood Cemetery with a gravel road.

The lower reservoir extends from the grass-covered lower earthen dam north to the toe of the tree-covered decommissioned, upper reservoir earthen dam. Its shores are heavily forested with the exception of the earthen dam, and informal trails run the length of its eastern shore. Dry Brook runs parallel to the western shore in a naturalized artificial stream bed, and spills into the lower reservoir only 200 feet from where it leaves the lower reservoir. Between Dry Brook and West Pine Street is a residential building that is leased from the Village as a private residence.



lower reservoir earthen dam 5/18/17

The boundaries between Waverly Glen Park, Glenwood Cemetery, and Two Rivers State Recreation Area are all heavily forested and crossed at multiple points by formal and informal paths. These boundaries are indistinguishable with the exception of the boundary that crosses at the northern (upstream) toe of the decommissioned upper reservoir earthen dam.



PROPOSED MASTER PLAN





MASTER PLAN - PARK ENTRANCE

PHASE 1:

By removing one of the two tennis courts at the entrance of the park, the vehicular and pedestrian access to the park can be made much safer and organized. A circular drop-off area sized for bus turn-arounds allows for quick unloading during major events and heavy park use. This also creates an opportunity for a more aesthetic and welcoming entry experience to the park, as well as placing the existing fire hydrant in a planted area as opposed to its current location in the center of a high-traffic parking area. A concrete sidewalk provides a safe pedestrian entrance, leading up to the tennis court area, where it transitions to a stone-dust path. The parking at the park entrance has been shifted to limit the amount of pavement required while increasing capacity and simplifying traffic flows. Summer recreation programs create a high traffic demand in mornings that are chaotic and unsafe for those dropping off or arriving by bike or on foot. The one-way loop will alleviate many of the current conflicts. A bioretention basin will be incorporated into the drop-off area to assume the stormwater needs. New park signage will feature the new logo directionals and native stone.

The main roadway in the park is two-way and currently measures between 14 and 16 feet in width. The new roadway will be widened, with a center stripe, and repaved through the entire length of the park. This will provide a much safer access and reduce the conflicts during heavy use.

PHASE 2:

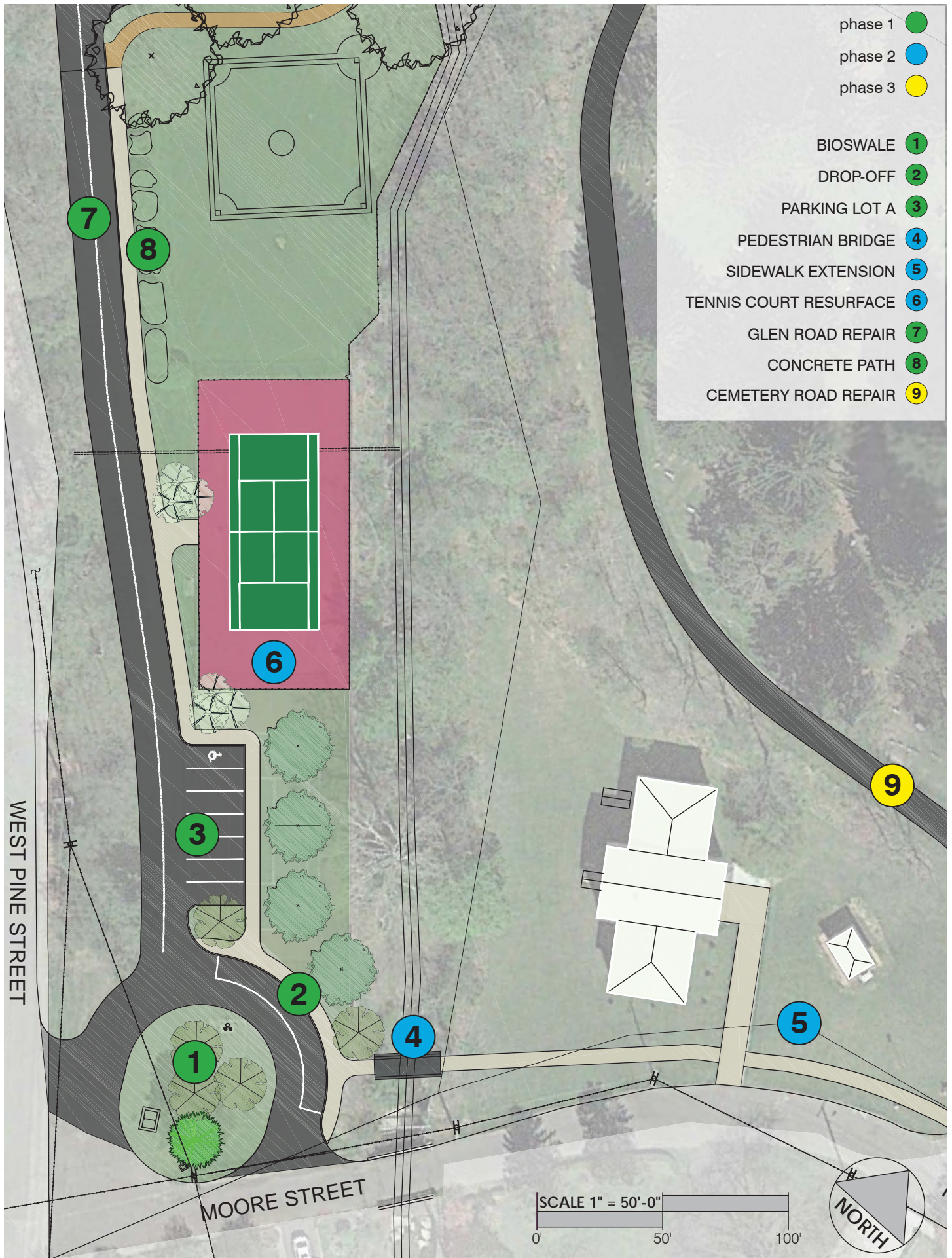
Re-surfacing the remaining tennis court will demonstrate a long-term commitment to improving the park's existing amenities and encourage greater use at this asset. A pedestrian bridge over Dry Brook is planned to connect to an extension of the Village's existing sidewalks across the front of Glenwood Cemetery. This provides a safer access for many residents who walk to the park.

PHASE 3:

Repairing the existing cemetery loop road will help to accommodate the potential for increased vehicular traffic using the cemetery as a secondary access to the Village park and Two Rivers State Park upper trailhead. Additional sidewalk connections to existing Village walks are recommended to be incidental with street reconstruction projects.



pedestrian bridge concept, generic example



MASTER PLAN - SMALL PAVILIONS

PHASE 1:

A stone-dust path is proposed to run the length of this middle-section of the park, improving walk-ability while maintaining the rustic character of the park. The walkway will provide an internal loop for users to access the many amenities and waterfall area without walking in the roadway. It also will connect to new and existing play structures, upper trails and other facilities within the park. Picnic tables and grills will be expanded to accommodate the heavy summer use. Minor upgrades are expected in the existing pavilions. Significant portions of asphalt are proposed to be removed from the parking areas and pavement restriping will improve the actual capacity through efficient layout.

PHASE 2:

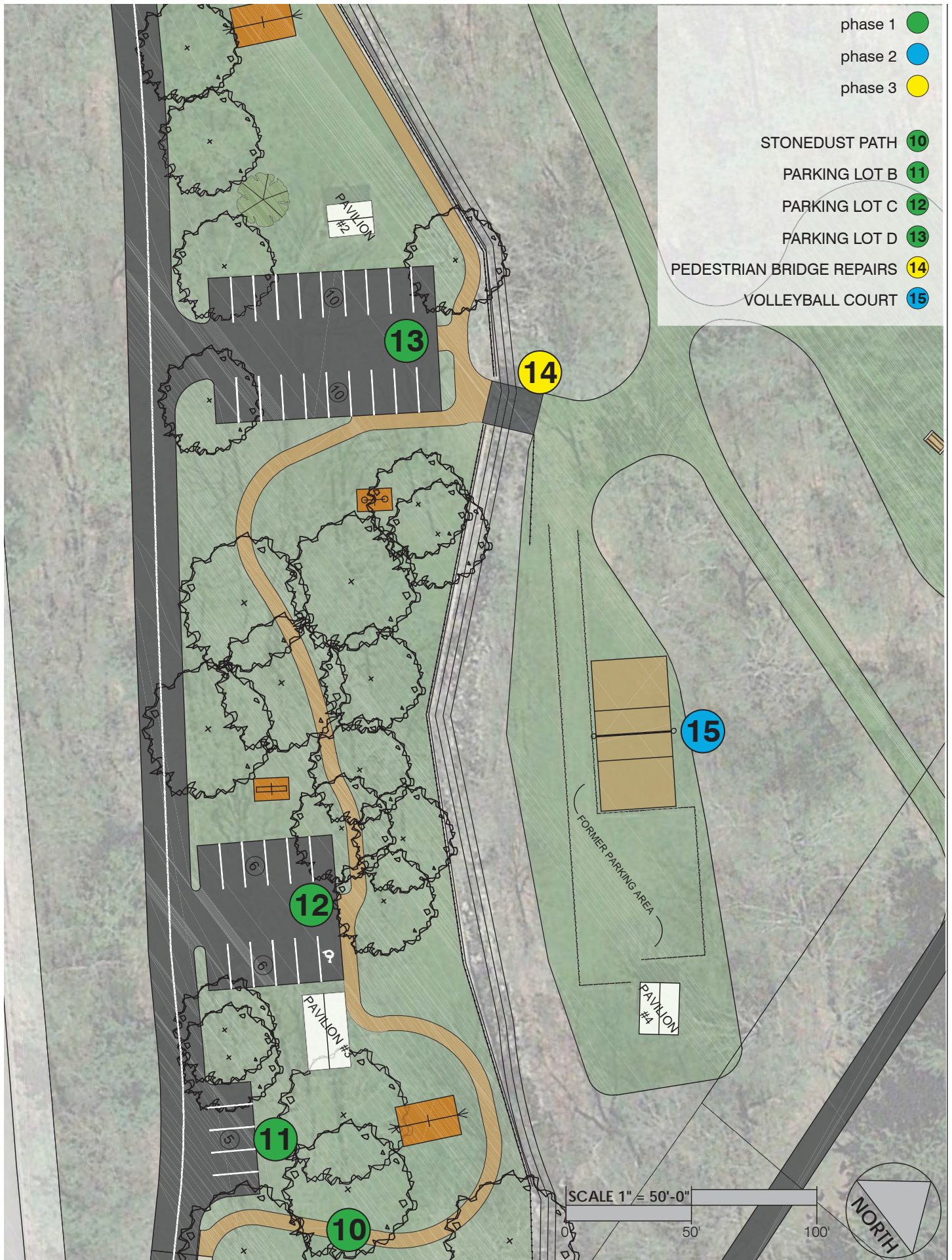
A new sand volleyball court, located near pavilion #4, will encourage athletic use and expands park amenities for families and young adults. The summer recreation program will benefit from this new amenity.

PHASE 3:

Long-term inspections and eventual restoration of the current bridge across Dry Brook should be planned as it represents a key connection between the developed portion of the park and the extended trail systems into the State Park reserve. This would include inspection of the abutments and their protection from flooding, railings and traffic controls.



walkway concept, MacArthur Elementary School, Binghamton NY



MASTER PLAN - LARGE PAVILION

PHASE 1:

Renovation and enlargement of the only park restroom facilities will include storage space for park maintenance equipment and the Village's existing rescue A.T.V. (all-terrain-vehicle), which is used to respond to emergencies throughout the trail system on both the Village's property as well as in Two Rivers State Park. ADA compliant bays, sinks and railings will be added in addition to masonry interior walls, doors and ventilation. The Large Pavilion (#1) will undergo much needed renovations to repair the pavements as well as sand-blasting and repainting to preserve and highlight the architectural structure of this unique 1922 building. New electrical service and structural reinforcement is expected. An existing defunct pump "bunker", once used by the adjacent golf course, will be removed and replaced with the performance space for a primitive amphitheater built into the forested slope. This will create a venue for music, education and theater events. Additional play equipment will be purchased to accommodate toddlers and infants, as this age-range is largely underserved by the existing play equipment in the park. The paved area of the parking lot will be reduced, and re-stripped to improve actual capacity and facilitate handicap access to the park. The trail leading toward the waterfall area will be paved from the amphitheater to accommodate service vehicles and reduce wear on the most heavily used portion of the park. The tall slide located near the Large Pavilion (#1) will be relocated closer to other play equipment. Added grills and small primitive picnic area near the parking lot will be included, as this amenity will accommodate the increased use of this feature.

PHASE 2:

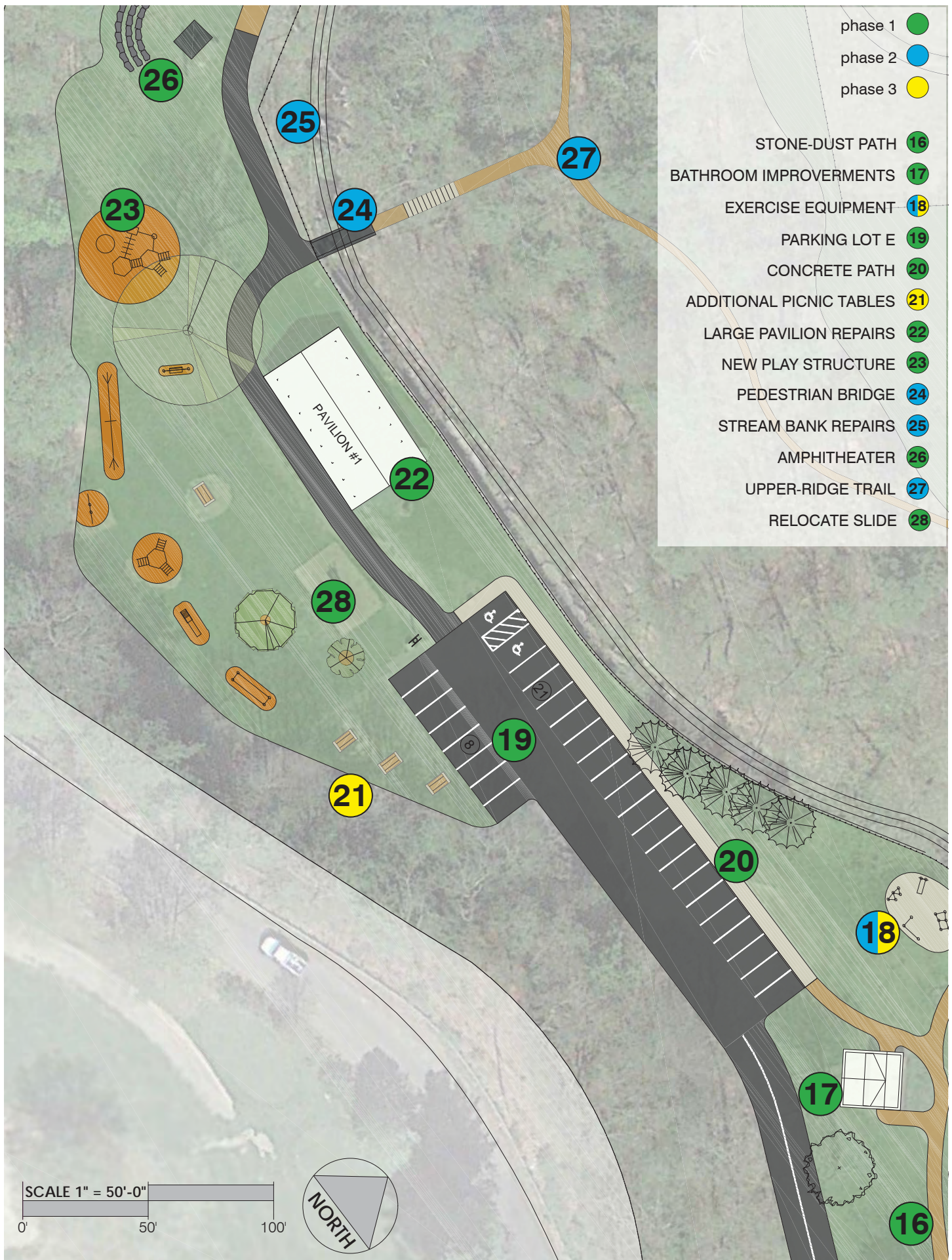
A portion of the streambank extending from the Large Pavilion (#1) up toward the waterfall will require extensive streambank stabilization due to retaining wall failures. This will provide an opportunity to reconstruct an historic pedestrian bridge connection across Dry Brook, connecting to an existing primitive trail system along the top of the ridge overlooking the park. Improvements will need to be made to this trail system in order to incorporate it into the park's official trail system, and provide a key connection to the State Park trail system.

PHASE 3:

Additional picnic tables will be added in the area of new lawn created by the reduction of asphalt parking area. Outdoor exercise equipment will be added to the area north of the restrooms.



amphitheater concept, Scott Amphitheater, Swarthmore, PA



MASTER PLAN - WATERFALL AREA

PHASE 1:

The path leading to the waterfall from the Large Pavilion will be repaved with gravel and stone dust and an under-drain will be installed at the uphill edge to improve drainage and prevent ponding on the path's surface. The chainlink fencing across the culvert bridge will be removed and replaced with an aesthetic alternative to improve the initial view and vantage point of the waterfall. The worn streambank at the base of the waterfall will be armored with stepped native stone boulders to reduce erosion, facilitate an improved viewing experience, and provide access and seating along the water's edge. The pile of brush and rubble in the clearing east of the waterfall will be removed to create a larger space for gatherings and picnics near the falls. In order to reduce erosion and wear on the earthen dam, a split-rail fence will be installed at it's base to discourage people walking up the face of the dam.

PHASE 2:

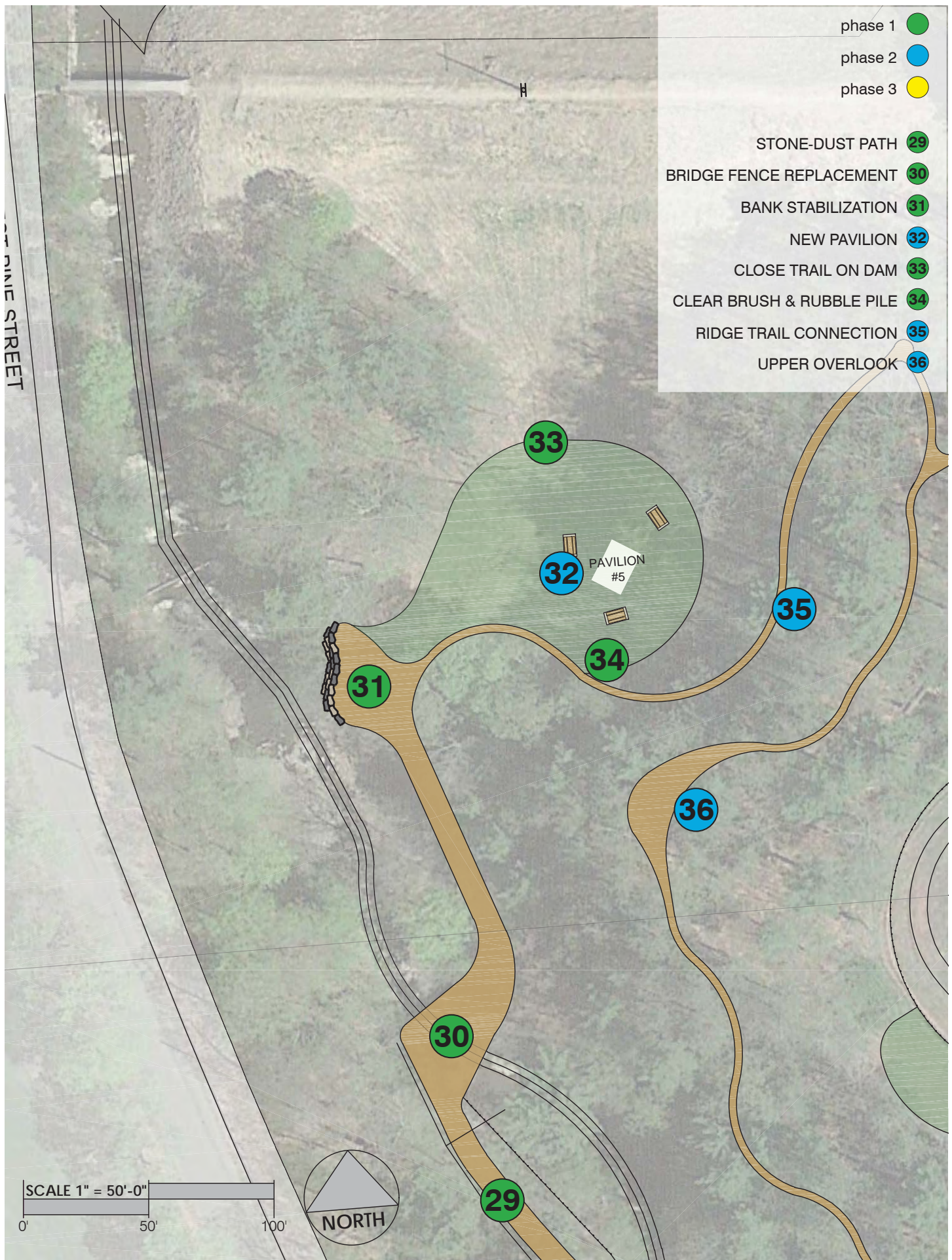
A trail connection will be re-established between the waterfall area and the (abandoned) upper-ridge trail, where an existing clearing at the top of the slope overlooks the waterfall area. By making improvements at this overlook, and some selective tree pruning on the downhill slope, the view to the water fall can be significantly improved, creating a second, viewing experience for visitors to the park. At the base of the slope, a new rustic pavilion will be added. This pavilion, located near one of the most popular elements of the park, will handle added capacity and can be rented by the Village as an additional revenue source.



waterfall pavilion concept, Moreau State Park, Moreau, NY



stream bank stabilization concept, River Walk, Delhi, NY



MASTER PLAN - WATER FILTRATION BUILDING

PHASE 2:

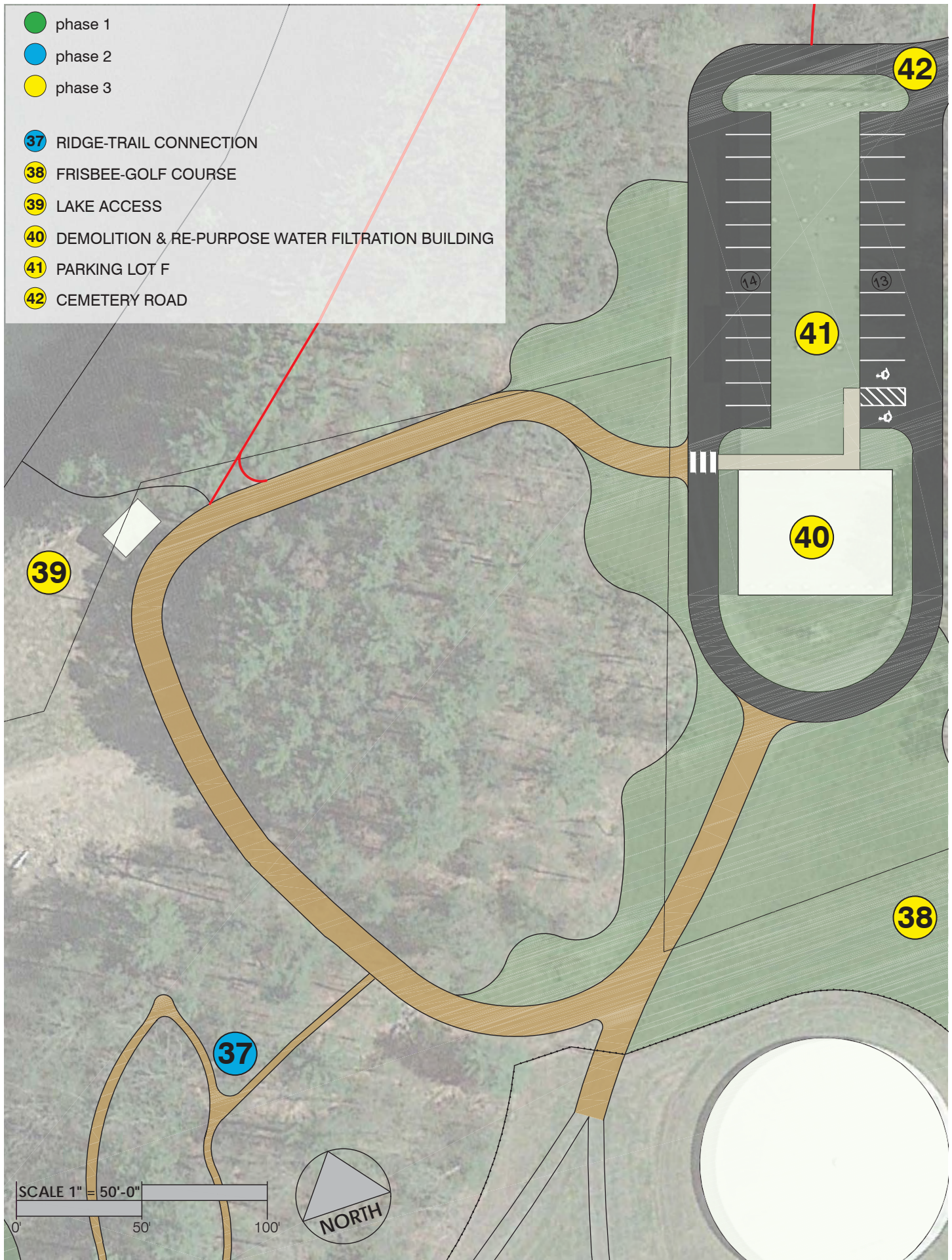
A trail connecting the upper-ridge trail to the existing gravel access roads around the defunct water filtration building will help to divert pedestrian traffic away from the face of the earthen dam, as well as improving the connectivity of the lower developed area of the park with the underutilized upper section.

PHASE 3:

By widening and paving the existing access road that connects to the cemetery road, vehicular access to the upper park can be better facilitated. The defunct water-filtration building will be partially demolished to create a space for a new parking area, while a portion of the structure may be salvaged and re-purposed to create a large, unique pavilion. This area will act as a new major trailhead for both the Village park as well as Two River's State Park Recreation Area. The open lawn on the slopes surrounding the two water towers, in conjunction with the forested area surrounding it is proposed as a "Frisbee golf" course.



raingarden parking concept, Binghamton NY



ANTICIPATED REGULATORY APPROVAL & PERMITS

A. VILLAGE OF WAVERLY APPROVALS

Building Code Compliance - The Village issues their own building permits for Building Code Review.

B. STATE ENVIRONMENTAL QUALITY REVIEW ACT (SEQRA)

Under SEQRA, proposed construction activities occurring within a municipal jurisdiction are subject to the review and commentary of other involved agencies to minimize or eliminate potential environmental impacts.

Tioga County is the lead agency in conducting a SEQRA as they are the managing entity for the Master Plan. (ADD TEXT from Elaine regarding the two SEQR processes/approvals). Review was coordinated with the involved agencies due to their role in the projects near or contiguous to the site. The coordinated review also involved SHPO and NYS Parks who will have approving and funding roles in the project.

C. SHPO REVIEW

Environmental review is a planning tool used to ensure that historic preservation is carefully considered in the planning stages of a project. The review includes the impact a proposed project will have on buildings, neighborhoods, landscapes and archaeological sites which are listed or eligible for listing on the National Register of Historic Places.

State Historic Preservation Act (SHPA) Review Process/Consultation with Office of Parks Recreation & Historic Preservation (OPRHP) requires a Letter of Resolution (LOR) to be finalized with OPRHP on the general permit that satisfies DEC's obligation under the NYS Historic Preservation Act, Section 14.09, 9 NYCRR 428.4

Additional SHPO review is required for this project.

D. NYSDEC STORMWATER POLLUTION PREVENTION PLAN (SWPPP) APPROVAL

Owners/operators of construction activities that will result in the disturbance of one (1) or more acres of land must obtain coverage under GP-0-15-002 prior to the commencement of soil disturbance. Owner/operators with projects covered under the SPDES General Permit for Stormwater Discharges from Construction Activity - GP-0-15-002 (the Construction Permit) are required to develop and implement a Stormwater Pollution Prevention Plan (SWPPP) that meets criteria set forth by New York State Department of Environmental Conservation (Department). All SWPPPs must include practices consistent with the New York Standards and Specifications for Erosion and Sediment Control. Many construction sites must also comply with the New York State Stormwater Management Design Manual to address post-construction stormwater discharges.

NYDEC application requirements and procedures include:

- Infiltration Testing
- Notice of Intent
- MS4 SWPPP Acceptance Form
- SWPPP Preparer Certification
- Owner/Operator Certification

Stormwater Pollution Prevention Plan (SWPPP) prepared in accordance with the New York Department of Environmental Conservation SPDEC General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-15-002) may be required:

Project Description or narrative report including a pre- and post-development description of the site;

An erosion and sediment control plan that describes methods for controlling runoff during construction

A post-construction stormwater management plan that describes permanent measures to control runoff from the development site, and

An operation and maintenance plan that details long-term inspection and maintenance protocols

There will be more than one acre of site disturbance for this project. However, this is a previously disturbed site and it is unlikely there will be one acre of earth (dirt) disturbance. Final determination of whether SWPPP approval is necessary will be determined during the design development phase of the project.

New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges for Construction Activities (Permit No GP-0-15-002, effective January 29th, 2015) will be required.



existing bench, Waverly Glen Park, 5/18/17

FOLLOWING PAGES - PROJECTED ESTIMATE OF PROBABLE COSTS, PHASE 1,2, & 3:

Phase 1 Is developed for NYS CFA Parks Grant to show local match @ 25% of project costs. Costs shown are contracted figures and should be assumed to include general conditions. Additional costs are actual costs to be anticipated in each phase of the work.

Phases 2&3 are shown for informational purposes. These figures will need periodic updating. Major costs for streambank restoration or demolition of the water filtration building could be offset with WQIP funding (CFA) or Soil & Water Conservation funds. Additional support from NYS Parks should also be pursued in partnership with the Village's efforts. (See chart on pages 38-40)

PROJECTED ESTIMATE OF PROBABLE COSTS

PHASE 1

Park Improvements by Areas:

	Grant	Match
Park Entrance (P1)		
Mobilization & Site Preparation	\$17,545.45	-
Cut & Fill Rough Grading	\$23,998.92	-
Paving Parking Surface	\$104,626.97	-
Paving Walkways	\$71,815.53	-
Bioswales	\$21,584.82	-
Signs	\$11,587.50	-
Planting - Trees	-	\$3,175.88
Planting - Shrubs	-	\$2,561.18
Planting - Lawn & Maintenance	-	\$3,081.50
Subtotal:	\$251,159	\$8,819
Small Pavilions (P1)		
Mobilization & Site Preparation	-	\$10,676.06
Paving Road Surface	\$21,721.46	-
Paving Parking Surface	\$31,040.19	-
Paving Path	-	\$5,611.00
Picnic Tables & Grills	\$2,722.50	-
Signs	\$3,307.50	-
Subtotal:	\$58,792	\$16,287
Large Pavilion (P1)		
Mobilization & Site Preparation	-	\$10,904.66
Paving Road Surface	\$12,121.11	-
Paving Parking Surface	\$24,801.68	-
Paving Walkways	-	\$16,855.26
Pavilion Restoration	-	\$32,703.11
Pump "bunker" Demolition	\$2,025.00	-
Amphitheater	\$14,990.63	-
Restroom Improvements	-	\$32,672.54
Play Equipment	\$8,000.00	\$2,000.00
Picnic Tables & Grills	-	\$3,397.50
Signs	\$2,943.00	-
Planting	-	\$3,594.38
Subtotal:	\$64,881	\$102,127
Waterfall (P1)		
Mobilization & Site Preparation	\$10,155.90	-
Bank Stabilization	\$28,888.92	-
Paving Walkways	-	\$26,178.08
Drainage	-	\$3,397.50
Picnic Tables & Grills	-	\$4,770.00
Signs	\$1,237.50	-
Subtotal:	\$40,282	\$34,346
Total Site Improvements	\$415,115	\$161,579
Design & Construction Documents 11%	\$45,663	\$17,774
Bidding & Bid Support .05%	\$2,076	\$808
Construction support 4%	\$16,604.58	\$6,463.15
Cultural/Environmental resource assessment 1%	\$4,151	\$1,616
As-Builts +/- 1%	\$4,151	\$1,616
Totals:	\$72,645	\$28,276
GRANT & VILLAGE MATCH TOTALS:	\$490,000	\$190,000
PROJECT TOTAL:	\$680,000	

PHASE 2

Park Improvements:

Pedestrian Bridge at Entrance	\$184,000
Sidewalk Extension	\$159,275
Tennis Court Resurface	\$57,500
Volleyball Court	\$36,800
Exercise Equipment	\$9,200
Pedestrian Bridge at Large Pavilion	\$103,500
Streambank Repairs	\$575,000
Upper Ridge Trail	\$4,600
Upper Overlook	\$69,000
Total Site Improvements	\$1,198,875

Design & Construction Documents 11%	\$131,876
Bidding & Bid Support .05%	\$5,994
Construction support 4%	\$47,955.00
Cultural/Environmental resource assessment 1%	\$11,989
As-Builts +/- 1%	\$11,989
Totals:	\$209,803

PROJECT TOTAL:	\$1,408,700
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PHASE 3

Park Improvements:

Cemetery Rd Repairs	\$76,073
Pedestrian Bridge Upgrades at Small Pavilions	\$40,250
Exercise Equipment	\$5,750
Picnic Tables	\$3,450
Frisbee Golf	\$11,500
Lake Access	\$92,000
Demolish & Repurpose Water Filtration Building	\$517,500
New Parking Lot at Water Filtration Building	\$62,100
Loop Road	\$103,500
Cemetery Road Access	\$187,680
Total Site Improvements	\$1,099,803

Design & Construction Documents 11%	\$120,978
Bidding & Bid Support .05%	\$5,499
Construction support 4%	\$43,992.10
Cultural/Environmental resource assessment 1%	\$10,998
As-Builts +/- 1%	\$10,998
Totals:	\$192,465

PROJECT TOTAL:	\$1,292,300
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IMPLEMENTATION STRATEGIES

Numerous strategies for realizing the Waverly Glen Master Plan are offered for consideration depending on the level of Federal, State, Local and private funding available. This document should provide a major step toward securing financial support for the project.

State and/or federal grant monies provide the impetus for new development that might never be accomplished with local funding only. Usually requiring matching funds, these grants place more responsibility and ownership on the applicant, thus helping to assure the project's success. However, there are associated costs with public money of which the applicant must be aware. These come in the form of administration of contracts and requirements for tighter specifications, bidding procedures, bonding and construction review services.

In-kind services will be used to implement a range of project elements and objectives. Precedent exists for various clubs and local community groups to donate skills, time, materials and equipment toward the construction and revitalization of such a visible and popular community amenity and recreational facility. However, when federal or state grant monies are involved in a project, the lines between contracted services, donated services and in-kind services must be clearly defined. Many grant programs allow the value of in-kind services to be used toward the required match. However, these need to be well documented.

In all phases, construction drawings and estimates will need to be prepared for the proposed improvements. This document and the Master Plan drawings are not considered "construction documents". Costs for the detailed construction drawings and specifications are accounted for in the Projected Cost Estimate as they are necessary to bring this or any other project from the schematic phase to actual implementation.

The following strategies are offered for consideration depending on the level of funding that is approved and the support provided by the community.

- Establish a method for furthering public support of the Park project, and a framework for accepting, acknowledging, and organizing help and donations.
- Assure that in-kind services and/or budgeted costs for anticipated assistance is accurate and accepted by the involved agencies.
- Utilize in-kind services and donations of labor and materials to construct improvements and weigh the impact of these donations to the public funding match. Be sure to contact the grantor for verification of match eligibility if applicable.
- Continue reaching out for local and legislative support for the Waverly Glen Park. Public outreach will be necessary early in the process and must continue in order to see the project through to completion.
- Lobby for legislative support of current applications and/or improvements. Invite attendance of representatives at presentations, Waverly Glen events, weekly programs, day camps, school programs, etc. Be persistent!

- Secure property and utility survey for design development and construction either with in-kind or contracted services.
- Pursue technical assistance grants for specific projects, which can often be included as part of the match to larger funding sources. (i.e.; New York State Urban and Community Forestry Council Grants, Municipal Challenge Grants, Charitable Trusts, Community Foundations, Parks, Legislative Support, Arts Council, CDBG, DOS, DEC, LWCF and ARC support).
- Tap Economic Development Planning assistance from Tioga County for additional planning and support of applications for improvements, or for assistance with grant applications.
- Solicit area civic organizations and local foundations to consider funding the park and its elements.
- Look into the possibility of including the Park as a node in any future tourism trails or park networks, strengthening the regional draw for tourism and public visits.
- Seek added support from NYS Parks - Finger Lakes Region for the development of signage and trailhead parking areas.

See potential Funding Sources in the next section of this report.



existing play equipment, Waverly Glen Park, 5/18/17

FUNDING SOURCES

FUNDING SOURCE	NAME	DESCRIPTION	DUE DATE
LOCAL	Bernice Gould Fund	Project oriented grants.	Anytime
	Hoyt Foundation	www.hoytfoundation.org Project focused, once every 3 years. Will fund special projects, capital needs or technical assistance.	Spring Fall
	Klee Foundation	klee.foundation.org The Klee Foundation funds grants in the following areas: the arts, humanities, education, health, human service. The Foundation is particularly interested in assisting programs which meet an urgent community need, do not unnecessarily duplicate programs of other organizations, have explored alternative funding sources and which have some reasonable assurance of ongoing support.	Late February
	Victor & Esther Rozen Foundation	Charitable and educational project oriented grants.	
	Gannett Foundation Grants	www.gannettfoundation.org Community Action Grants can be for projects or ongoing activities. Value projects that take a creative approach to fundamental issues such as education and neighborhood improvement, economic development, youth development, community problem-solving, assistance to disadvantaged people, environmental conservation and cultural enrichment.	February August
	Hooker Foundation	The Floyd Hooker Foundation — a trust established by Floyd "Vic" Hooker in his will to benefit the children in Tioga County. The Floyd Hooker Foundation supports grants in the areas of helping children in Tioga County. Grants are limited to qualified tax exempt organizations that benefit the children in Tioga County.	June
	The Mildred Faulkner Truman Foundation	www.mftf.net Provides worthwhile grants to organizations that enhance & benefit the residents of Tioga County, NY. The Foundation encourages grant requests for critical needs, capital projects and seed money for new and special projects or programs. It is the Foundation's intent that the grants awarded will address the community's challenges and make a significant difference.	Application must be submitted 5 weeks prior to the next board meeting - the board meets quarterly.
REGIONAL	Community Foundation of Central NY	www.cfscny.org/ or www.donorswhocare.org/grant-seekers/	March September
	M&T Charitable Donations	www.mtb.com/aboutus/community/pages/CharitableContributions.aspx	Monthly
	Cracker Barrel Foundation	www.crackerbarrell.com/about.cfm?doc_id=1239 Preserve & establish historic monuments, sites, parks, ...	Anytime

STATE	Preservation League of NY	www.preservenys.org	
	NYSCA, Architecture, Planning & Design program	www.nysca.org/public/guidelines/architecture/index.htm Funding grants for design services and building condition studies. Done in partnership with municipalities or NFP corporations.	March
	John E. Streb Preservation Services Fund for NY	www.landmarksociety.org/section.html Provide assistance grants for consultant services, feasibility studies and education.	February October
	NYSCFA - Consolidated Funding Application	www.apps.cio.ny.gov/apps/cfa/index.cfm Community Development <ul style="list-style-type: none"> • New York State Council on the Arts <ul style="list-style-type: none"> - Arts, Culture and Heritage Projects • Office of Parks, Recreation and Historic Preservation <ul style="list-style-type: none"> - Environmental Protection Fund Municipal Grants - Recreational Trails Program Environmental Improvements <ul style="list-style-type: none"> • Environmental Facilities Corporation <ul style="list-style-type: none"> - Green Innovation Grant Program • Water Quality Improvement Project (WQIP) Program <ul style="list-style-type: none"> - Funds projects that address water quality impairments 	May - July
	NYSCA REDC (Regional Economic Development Council) Program	www.nysca.org/public/home.cfm NYSCA's REDC program funding is distinct from and in addition to applications for support already submitted to other NYSCA programs New funding opportunities are available through the REDC program for projects designed to enhance and transform the cultural and economic vitality of New York State communities. Eligibility Requirements - www.arts.ny.gov/public/grants/who_is_eligible.htm Organizations must be prequalified in Grants Gateway to be considered for funding. Prequalification must be completed by the CFA application deadline. www.grantsreform.ny.gov	July
FEDERAL	American Heritage	www.ims.gov/applicants/guidelines/index.shtm The purpose of the American Heritage Preservation Grants program is to raise awareness and fund preservation of treasures held in small and mid-sized museums, libraries and archives that convey the essential character and experience of the United States. These artifacts can be of diverse origin, but should have significance in the heritage of the community in which they are now held.	Fall
	National Trust Preservation Fund	www.preservationnation.org/resource/find-funding/nonprofit-public-funding.html The National Trust Preservation Fund includes funds that provide two types of assistance to nonprofit organizations and public agencies: 1) matching grants from \$500 to \$5,000 for preservation planning and educational efforts, and 2) intervention funds for preservation emergencies. Matching grant funds may be used to obtain professional expertise in areas such as architecture, archeology, engineering, preservation planning, land-use planning, fund raising, organizational development and law as well as to provide preservation education activities to educate the public.	February June September

CORPORATE	IBM Community Grants	Yearly project grants. Needs to be sponsored by an IBM employee/retiree.	
	Ford Foundation	www.fordfoundation.org/grants/types-of-grants	
	New York State Electric & Gas Corporation (NYSEG)	www.lookupstateny.com/AssistanceAndIncentivePrograms/ny-segprograms.html	
	Corning Incorporated	www.corningincfoundation.org	
	Lockheed Martin	www.lockheedmartin.com/us/who-we-are/community/philanthropy.html	
	BAE Systems	www.baesystems.com/en-us/our-company/about-us/bae-systems-inc-/community-investment/corporate-sponsorship---grants	
	Time Warner Cable	www.timewarnercable.com/en/about-us/corporate-responsibility/connect-a-million-minds.html www.connectamillionminds.com www.theconnectory.org	
	Visions Federal Credit Union	www.visionsfcu.org	
	Lowe's Charitable & Educational Foundation	www.lowes.com/community	
	Wegmans Food Markets, Inc.	www.wegmans.com/webapp/wcs/stores/servlet/CategoryDisplay?identifier=CATEGORY_532&catalogId=10002&storeId=10052&langId=-1	
	Rockwell Collins	www.rockwellcollins.com/Our_Company/Corporate_Responsibility/Community_Overview/Charitable_Giving.aspx	
	CVS	www.cvshealth.com/social-responsibility	
	Maines Paper & Food	www.maines.net/	

SIGN RECOMMENDATIONS

OVERVIEW

In support of current efforts to establish, promote, preserve and enhance the Waverly Glen Park and Two Rivers State Park, this comprehensive Wayfinding Master Plan has been developed. This effort includes guidelines that articulate how visitors will be introduced to and guided throughout the Parks with environmental graphics. The methodologies used to orient and direct park and trail users with signage have been carefully considered so that mapping, destination nomenclature and circulation theories may be consistently rendered throughout the Parks. Moreover, these wayfinding standards may be applied consistently to print and electronic communications that are developed to promote the Parks in the area as well.

User access and circulation throughout the Waverly Glen Park and Two Rivers State Park will be facilitated by a standardization of signage formats and communication guidelines. The visual standards include consistent signage formats, materials, colors, graphic layouts and the positioning of signage relative to the parks, trails and roadways that provide access to it. In particular, a logo and logotype will be uniformly applied to signage devices

as a primary means to establish a graphic identity and cultivate the autonomy of the Parks.



Strategies for Signage Implementation

The objectives for the Signage System documented in this Standards Manual are to provide wayfinding information and reinforce the identity of the Waverly Glen Park and the Two Rivers State Park. This will be achieved through the implementation of visual design standards, message content and location/positioning standards (i.e. the positioning of signage along the trail).

Visual Design Standards

One of the key objectives of the Wayfinding Master Plan is to maintain formatting standards for all signage. By maintaining this singular visual identity, the signage can underscore the autonomy of the Park trails. The strategies for maintaining the visual standards are:

- LISTING OF SIGNAGE CATEGORIES
- SIGNAGE FORMAT USAGE CRITERIA
- STANDARDS FOR COLORS, TYPOGRAPHY, AND LOGO USAGE
- SIGNAGE DETAIL DRAWINGS
- STANDARDS FOR MAP GRAPHICS, LEGENDS AND SYSTEMS DESCRIPTIONS

Content Standards

The content standards have been established for the graphics and messages used for the

various signage categories can contribute significantly to the consistency of orientation and direction-giving through the Parks. There are two primary advantages to maintaining these standards throughout the Parks. First, the utilization of these standards will provide information where it is needed and in appropriate formats. Secondly, these guidelines will afford some predictability for park and trail users as to where this information is likely to be found on signs throughout the parks and along the trails.

The primary aspects of these content standards are:

- SIGNAGE FORMAT USAGE CRITERIA
- NOMENCLATURE STANDARDS
- RECOMMENDATIONS FOR MESSAGE AND GRAPHICS CONTENT

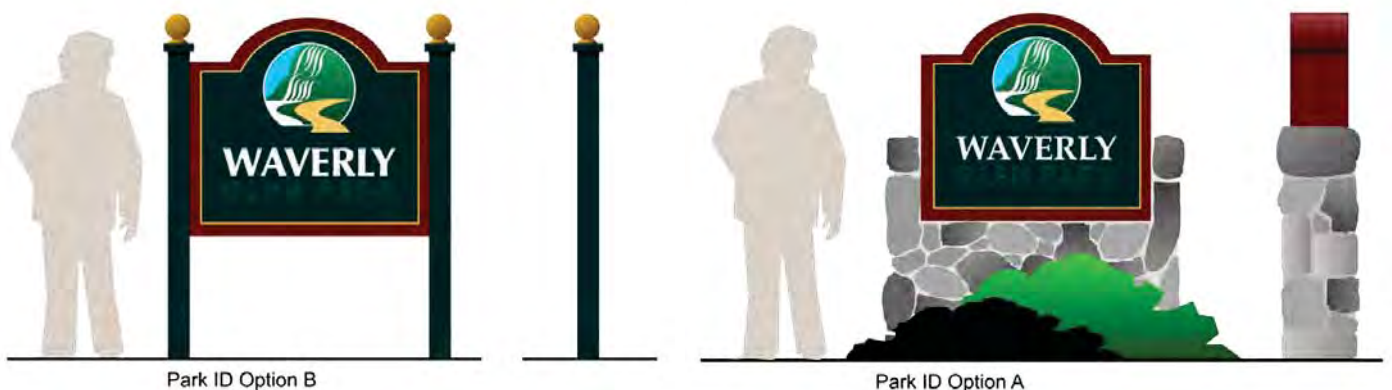
Recommendations for Message Content

This section includes guidelines for the kinds of information that may be presented among key signage elements. In particular, these standards impact the two fundamental wayfinding tools used in the Waverly Glen Park and Two Rivers State Park signage - Directional and Orientation signage. With respect to the Trail Directional categories, the following guidelines are intended to establish consistency in:

- where such signs are placed along the trail
- the types of destinations that are referenced
- how much information is placed on each sign and
- the relative distances from which various destinations may be referenced.

There are three different formats available for trail directional signage and two additional categories for vehicular direction. The trail options are distinguished by the size of the message panel and are dependent upon the quantity of information that needs to be conveyed. A third trail directional category involves a simple pylon that employs the logo and a directional arrow and may be useful at points where the trail converges or diverges from a sidewalk. The standards feature a vehicular directional format that meets current MUTCD standards and is intended to guide motorists to parking areas where these are in close proximity to roadways. Trailblazers provide direction to vehicular traffic from one-quarter to one-half mile away from trail access points.

For Orientation Signage, the recommendations entail criteria for the placement and content for two types of Orientation Kiosks and detailed information on the kinds of maps, legends and other information that can be applied.



Directional Signage

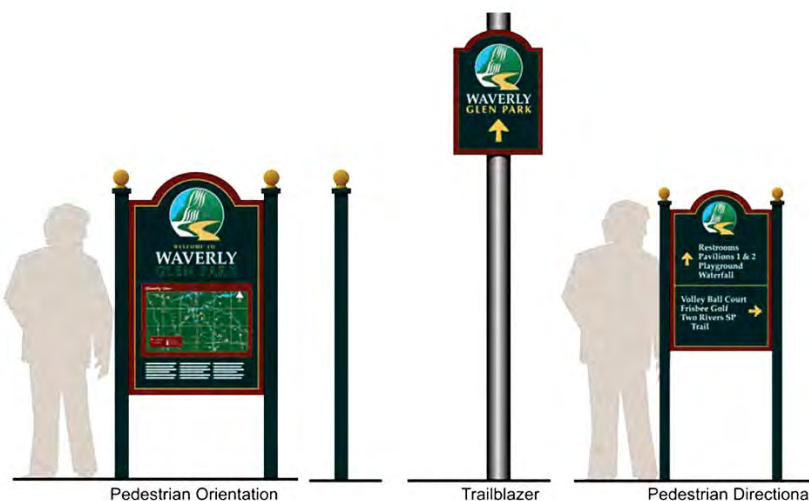
Proposed Criteria for Directional Signage Content and Placement

1. The purpose of Vehicular Directional Signage will be to guide users to park/trail access points. The purpose of Trail Directional Signage will be to reinforce circulation along the trail. It is assumed that the attractions referenced on Trail Directional Signage are also articulated on the orientation signs that the park/trail user is likely to find at all access points.
2. Vehicular Directional Signage can be utilized at junctions/intersections with roadways that provide access parking to the park and trail. Trail Directional Signage may be placed at major roadways with pedestrian access, intersecting trails, junctions with pathways to restrooms or playgrounds and trailhead/access points.

Orientation Signage

Proposed Criteria for Orientation Signage Content and Placement

1. The purpose of Orientation Signage should be to provide an overview of the course of the Parks and Trail and the attractions that are accessible from it.
2. Orientation Signage will include:
 - a. Primary Orientation Kiosks
 - b. Secondary Orientation Kiosks
3. The content for Primary Orientation Kiosks may include:
 - a. Directional information (Content criteria same as previous section)
 - b. Key Plan Map of entire Parks/Trail
 - c. Section Map graphic and legend (this will reference parks, trails, municipalities, and points of interest in proximity to the Parks and Trail)
 - d. Welcoming information and general information about the Parks and Trail
 - e. Description of the conditions that exist along the Local Trail Section including segments on the roadways, missing segments, portions under construction, hazards, and ADA-related information about trail accessibility
 - f. Interpretive information
 - g. Credits & acknowledgments
4. The content for Orientation Maps will include:
 - a. Key Plan Map of entire Parks/Trail

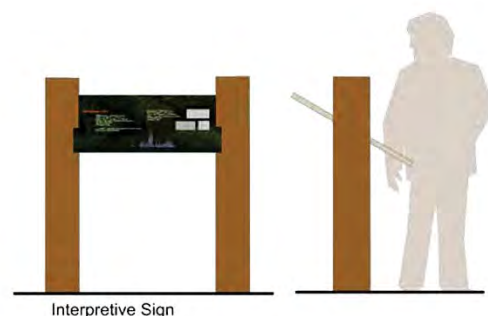


Pavilion ID



Restroom ID

- b. Section Map graphic and legend (this will reference parks, trails, municipalities and points of interest along the Trail and within the Parks)
5. Specific destination information rendered on orientation signage will be limited to the municipalities, parks, trails, and points of interest that are within the segment of the Trail in which the signage is placed.
 6. Orientation signage may be placed at park/trail access points, junctions/intersections with major roadways and areas where people frequently pass by or gather (e.g. restrooms, dining areas, observation areas, boat launches, etc.)
 7. Orientation signage should be visible from the park/trail but be placed such that the viewer can safely stand off the trail and away from other pedestrian traffic areas in order to spend as much time as he or she wishes to read signage content.
3. The content for Primary Orientation Kiosks may include:
- a. Directional information (Content criteria same as previous section)
 - b. Key Plan Map of entire Parks/Trail
 - c. Section Map graphic and legend (this will reference parks, trails, municipalities, and points of interest in proximity to the Parks and Trail)
 - d. Welcoming information and general information about the Parks and Trail
 - e. Description of the conditions that exist along the Local Trail Section including segments on the roadways, missing segments, portions under construction, hazards, and ADA-related information about trail accessibility
 - f. Interpretive information
 - g. Credits & acknowledgments
4. The content for Orientation Maps will include:
 - a. Key Plan Map of entire Parks/Trail
 - b. Section Map graphic and legend (this will reference parks, trails, municipalities and points of interest along the Trail and within the Parks)
 5. Specific destination information rendered on orientation signage will be limited to the municipalities, parks, trails, and points of interest that are within the segment of the Trail in which the signage is placed.
 6. Orientation signage may be placed at park/trail access points, junctions/intersections with major roadways and areas where people frequently pass by or gather (e.g. restrooms, dining areas, observation areas, boat launches, etc.)
 7. Orientation signage should be visible from the park/trail but be placed such that the viewer can safely stand off the trail and away from other pedestrian traffic areas in order to spend as much time as he or she wishes to read signage content.



APPENDIX



WAVERLY GLEN Master Plan

Advisory Committee Meeting

June 1, 2017, 00:00 - 10:15pm

Waverly Village Hall

1. Introductions Sign in
Michael Haas, Principal HLA
Jacob von Mechow, Associate HLA
2. Meeting Overview Objectives
Carlo Piech, Synnographics
 - a. User Survey results Summer Program
 - b. Environmental concerns flora fauna
 - c. Schedule impacts C A Application July 2
 - d. Village Board Planning Board meetings July 25
 - e. S R Determination County Planning July 1
 - f. SHA endorsement June 2
 - g. SDoT R July 20
 - h. Connectivity to Waverly State Park Trails
 - i. Logo Signs Preferences
3. Project Options Upper Lower Park
 - a. Project limits ownership
 - b. Potentials Constraints
 - c. Program elements
 - Efficient parking pavement width
 - Drop off entry
 - Circulation safety via separation Path surfacing
 - Accessible parking restrooms additional restroom composting
 - Active play fields courts
 - Playground equipment age appropriate, H cap fitness stations
 - Pavilions upgrades Primitive Picnic
 - Streambank stabilization
 - Bridge replacement or upgrading
 - Pool at falls
 - Filtration Bldg. repurposed vs demolition
 - Water recreation opportunities boating, swimming, fishing
 - Accessible ramp or dock
 - Logo, Signs interpretation
 - utilities
 - vegetation sustainability plan
 - stormwater drainage
 - picnic trash
 - other
4. S R A Long term Development vs Planning
 - a. Determination process
 - b. Lead Agency
5. Priority Projects for Grant Application
 - . Schedule Key Steps
 - Complete MP estimate Prepare Draft Summary Report Logo signs
 - endorsements Municipal Approvals June July 2017
 - C A Application July 2
 - S R Long term
 -

WAVERLY GLEN Master Plan

June 16, 2017

S MEETING WITH ADVISORY CMTE SIGN-IN SHEET

NAME	INITIAL	AFFILIATION	PHONE	E-MAIL ADDRESS
Elaine Jardine, Director	<i>EJ</i>	Tioga County Department of Economic Development & Planning	<i>607-687-8255</i>	jardinee@co.tioga.ny.us
Brittany Woodburn	<i>BW</i>			woodburnb@co.tioga.ny.us
Michael Haas	<i>MH</i>	HAAS Landscape Architects	607-723-6005	mhaas@haas-la.com
Jacob von Mechow				jvmchow@haas-la.com
Rebecca Maffei		Tioga County Tourism		rebecca@experiencetioga.com
David Shaw		Village of Waverly		recreation@villageofwaverly.com
Patrick Ayres, Mayor	<i>PA</i>	Village of Waverly		aayres@stny.rr.com
<i>Marcus Riehl</i>	<i>MR</i>	<i>NYS Parks</i>	<i>607 387 4041</i>	<i>marcus.riehl@parks.ny.gov</i>
<i>Becca Maffei</i>	<i>RM</i>	<i>Tioga Co Tourism</i>	<i>607 687 7440</i>	<i>REBECCA@EXPERIENCE TIOGA.COM</i>
<i>DAVID SHAW</i>	<i>DS</i>	<i>WAVERLY RECREATION</i>	<i>570 575-7817</i>	<i>RECREATION@VILLAGE OF WAVERLY</i>
<i>Maily Bork</i>	<i>MB</i>	<i>Canton Greenway</i>	<i>607 565-2636</i>	<i>M.BORK@CANTON.NY.GOV</i>
<i>Carlo Piech</i>	<i>CP</i>	<i>Synegraphics</i>	<i>716-537-2087</i>	<i>carlo.piech@gmail.com</i>

WAVERLY GLEN Master Plan

isory Committee Meeting 2

une 30, 2017, 00 10 30am

Waverly Village Hall

1. ntroductions Sign in

Michael Haas, Principal HLA
acob von Mechow, Associate HLA

- a. Meeting Overview Ob ectives
- b. Summer Program
- c. nvironmental concerns Streambank Assessment
- d. pper Dam Outfall concerns
- e. Connectivity to Waverly State Park Trails latest map
- f. Overlook and Two Rivers State Park Trail Connection
- g. Restroom loor Plan uotes
- h. Logo Signs Preferences

2. Priority Pro ects for rant Application

- a. ntrance Drop off
- b. Play Courts
- c. Restroom renovations
- d. Roadway Parking
- e. Playground e uipment age appropriate, H cap, surface itness station s
- f. Large Pavilions upgrades Primitive Picnic
- g. Streambank Stabili ation at alls pool
 - Circulation safety via separation Path surfacing
 - Accessible parking restrooms additional restroom composting
 - Bridge replacement or upgrading
 - Debris removal picnic
 - Amphitheater
 - iltration Bldg. repurposed vs demolition P 2
 - Water recreation opportunities boating, swimming, fishing P 2
 - Accessible ramp or dock P 2
 - tilities
 - Landscaping young trees
 - stormwater drainage
 - signs
 - other

3. S R A Long orm Development vs Planning

- a. Lead Agency
- b. S R Determination County Planning uly 1
- c. SHA ndorsement une th 11th
- d. SDoT R uly 20
- i. Village Board Planning Board meetings uly 25

4. Schedule e t Steps

- Complete Cost stimate Prepare Draft Summary Report
- ndorsements Municipal Approvals une uly 2017
- C A Application uly 2
- S R Long orm
-



Waverly Glen Park Survey Results

7/27/2017



No. of Surveys Returned: 47

1 Age Groups

Under 10	10-18	18-24	25-34	35-44	45-54	55-64	65-74	75 +
0	4	0	11	3	6	20	4	3

2 Visits

Daily	Weekly	Monthly	Yearly	Less than once a yr.	Never
11	9	12	7	7	0

3 Get to park by?

Walk	Bike	Drive	Walk/Drive	Walk/Bike	All Three	Ride	Run
21	3	15	5	4	4	1	1

4 Activities:

Running	5
Biking	5
Trail Hiking	20
Walking	18
Picnicking	14
Tennis	2
Photography	1
Hanging out with friends	2
Slides	1
Swings	6
Cookouts	3
The Waterfall	5
Playgrounds	3
Trees for shade	1
Sightseeing	1
Exercising	1
Upkeep of the Glen	1
Reunions, family gatherings, birthday parties, receptions	1

Most People liked hiking, biking, trail hiking, walking, picnicking!

5 Improvements:

Reinstall the old bridge and walkway across the creek, near the big pavilion	1
Improve the pavilion	1
Place for food separate from seating area	1
Grills	1
Trail to falls could use a planks where the water seeps through	1
Mark trails better	6
Mile Markers	3
Maps	2
Update Trail	1
Trail Safety	1
Trail access to upper part of glen	1
Roads repaired	1
Safer Walkways	1
Better fencing near cliffs	1
Old steps need restoration	1
Lights	2
Electricity (in all pavilions - 1)	5
Larger picnic area	1
Resurface the tennis courts	2
Remove tennis courts	1

pg1

Handicapp accessible play equipment	2
Bathrooms need more privacy (doors)	5
Bathrooms need more care	3
Update the bathrooms	3
Bathroom improvements	1
More restrooms	1
Better access to the water falls	1
Update the play equipment	4
Swings for Infant-to-4 year olds	2
Splash pad for kids	2
Swimming pool for families	2
Sprinkler system to keep cool	3
A kiosk at park entrance w/trail markings labeled	1
Plaque @ entrance w/history of the Glen	1
More police presence	1
Better security	1
Safety Rails	1
Flowers	1
Rebuild stone wall @ north end of park	1
Water fountains	1
Parking	1
Something done where trees were removed	1
Bring back staircase	1
<i>Most people said the bathrooms need privacy and updating and better trail markings</i>	

6 Satisfied with basic maintenance?

Yes	No	No Comment	Could be Better
28	4	6	3

Comments

Soap/Sanitizer needed -3
Doors needed on bathroom stalls -3
Toilet paper needed - 1
More specific areas for garbage & recyclables - 1

7 Favor Public Funding

Yes	No	No Comment
40	4	1

8 Favorites:

			Final Total
Park Entrance	181	43	224
Large Pavilion & Surrounding Area	138	32	170
Reservoir & Dam	117	28	145
Tennis Courts	194	49	243
Small Pavilions	134	33	167
Glenwood trails (uphill side of brook)	97	21	118
Two Rivers State Park	136	36	172
Play Equipment	149	37	186
Water Towers	220	27	247
Waterfall & Stream	84	17	101

9 Special Parking Needs:

Striping of parking spaces
Handicapped
More Parking
Handicap Parking

10 Changes to access the brook?

Mostley no's and people don't like the idea of unsupervised children in the brook

pg2

11 Changes to Bathroom & Pavilions?

Bathrooms need to be private stalls, more lighting at night
Pavilions could use electricity, grills at all the pavilions

Handicap Accessible

12 Water filtration building:

Torn down, Basketball Courts, Maintenance equipment storage, Gardening, Education/Arts/Science Center, Mushroom Farm, Tear down and put in Basketball and Volleyball Courts, Painting Art on it.
Fish hatchery to stock the reservoir

Facilities or Park Elements that should be added or improved:

Picnic area	14
Paved walkways	11
Playground Equipment	17
Lighting	20
Tennis Courts	10
Volleyball Courts	7
Environ. Education area/amphitheater	13
Parking	10
Benches	10
Campground	6
Restrooms	26
Natural Areas (restoration)	12
Signs	12
Hiking Trails	20
Skateboard Park	7
Basketball Court	14
Maps	1
Bocce Ball Court	1

pg3



VILLAGE OF WAVERLY

32 ITHACA STREET • WAVERLY, NY 14892 • www.villageofwaverly.com
• TELEPHONE 607-565-8106 • FAX 607-565-8109 • TDD 800-662-1220

The Village of Waverly is an Equal Opportunity Employer and Provider

PATRICK AYRES
Mayor

MICHELE WOOD
Clerk/Treasurer

BETTY J. KEENE
Attorney

July 26, 2017

Waverly Glen Park Master Plan: Filbin motioned to recommend to the Board of Trustees to adopt the proposed Waverly Glen Park Master Plan as presented. Chaffee seconded the motion, which carried unanimously.

Ayres = 5 (Wilbur, Millhollen, Chaffee, Filbin and Case)

Nays = 0

I, Michele Wood, Village Clerk Treasurer of the Village of Waverly, do hereby certify that the aforementioned actions were adopted by the Board of Trustees of the Village of Waverly at their regularly scheduled meetings held on July 25, 2017 at 6:30 p.m. in the Waverly Village Hall.


Michele Wood, Clerk Treasurer



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PATRICK AYRES
Mayor

MICHELE WOOD
Clerk/Treasurer

BETTY J. KEENE
Attorney

July 26, 2017

NYS Parks EFP CFA Grant for Waverly Glen Park Phase 1 Implementation: Trustee Aronstam

offered the following resolution, and moved its adoption:

WHEREAS: The Village of Waverly Board of Trustees hired Haas Landscape Architects and collaborated with Tioga County Tourism, Tioga County EDP, Tioga County SWCD and NYS Parks Finger Lakes Region to develop and adopt a comprehensive master plan for improvements to Waverly Glen Park and connection to Two Rivers State Park; and

WHEREAS: The Village of Waverly realizes the importance and significance of such this outdoor recreational resource for its residents and various local community groups; and

WHEREAS: The Village of Waverly is committed to improving Waverly Glen Park for all ages including a safer entrance, roadways and parking areas, updated and safer playground equipment, safer access to the falls, stabilized streambanks for Dry Brook, and improved pavilions, and trail connection to the adjacent Two Rivers State Park; and

WHEREAS: The entire implementation project, as detailed in the Waverly Glen Park Master Plan is three phases, with Phase 1 costing \$680,000; and

WHEREAS: This grant source is capped at \$500,000 and requires a 25% local match as the Village of Waverly is located within a distressed census tract; therefore be it

RESOLVED: That the Village of Waverly Board of Trustees hereby authorizes submission of said grant application to NYS Parks in the amount of \$680,000 with a local contribution of \$190,000 with approximately \$114,000 being cash and approximately \$76,000 being in-kind services and; and be it further

RESOLVED: That upon award of said grant, the Village of Waverly Board of Trustees will accept these grant funds and authorize Mayor Patrick Ayres to enter into and execute a New York State grant contract and, if applicable; a conservation easement or other long-term protection document to ensure the assisted property remains a recreation resource in perpetuity.

Trustee Uhl seconded the motion, and duly put to a roll call vote, resulting as follows:

Ayes – 6 (Uhl, Aronstam, Havens, Reznicek, Sinsabaugh, Ayres)

Nays – 1 (Keene)

The motion carried, and resolution was adopted.

I, Michele Wood, Village Clerk Treasurer of the Village of Waverly, do hereby certify that the aforementioned actions were adopted by the Board of Trustees of the Village of Waverly at their regularly scheduled meetings held on July 25, 2017 at 6:30 p.m. in the Waverly Village Hall.



Michele Wood, Clerk Treasurer



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PATRICK AYRES
Mayor

MICHELE WOOD
Clerk/Treasurer

BETTY J. KEENE
Attorney

July 26, 2017

Waverly Glen Park Master Plan with a SEQR Negative Declaration: Trustee Aronstam

offered the following resolution, and moved its adoption:

WHEREAS: The Village of Waverly Board of Trustees, with the professional services of Haas Landscape Architects, has been working with Tioga County Tourism, Tioga County EDP, Tioga County SWCD and NYS Parks Finger Lakes Region to develop a comprehensive master plan for improvements to Waverly Glen Park and connection to Two Rivers State Park; and

WHEREAS: The Village of Waverly realizes the importance and significance of such this outdoor recreational resource for its residents and various local community groups; and

WHEREAS: The Village of Waverly is committed to improving Waverly Glen Park for all ages including a safer entrance, roadways and parking areas, updated and safer playground equipment, safer access to the falls, stabilized streambanks for Dry Brook, and improved pavilions, and providing trail connection to the adjacent Two River State Park; and

WHEREAS: A SEQR Full Environmental Assessment Form has been completed and the Village of Waverly Planning Board's analysis has revealed no significant adverse environmental impacts from this Type 1 action; and

WHEREAS: Both the Village of Waverly Planning Board and the Tioga County Planning Board have recommended adoption of the Waverly Glen Park Master Plan during the GML §239 review process; and

WHEREAS: The Village of Waverly Board of Trustees intends to proceed with a NYS Park EPF CFA grant to implement Phase 1 of the recommendations in the Waverly Glen Park Master Plan; therefore be it

RESOLVED: That the Village of Waverly Board of Trustees hereby makes a Negative Declaration for SEQR purposes and adopts the Waverly Glen Park Master Plan.

Trustee Reznicek seconded the motion, and duly put to a roll call vote, resulting as follows:

Ayes – 6 (Uhl, Aronstam, Havens, Reznicek, Sinsabaugh, Ayres)

Nays – 0

Abstain – 0 (Keene)

The motion carried, and resolution was adopted.

I, Michele Wood, Village Clerk Treasurer of the Village of Waverly, do hereby certify that the aforementioned actions were adopted by the Board of Trustees of the Village of Waverly at their regularly scheduled meetings held on July 25, 2017 at 6:30 p.m. in the Waverly Village Hall.



Michele Wood, Clerk Treasurer

I, Michelle L. Keene, District Clerk of the Waverly Central School District do hereby certify that at a public meeting held on July 13, 2017, the Board of Education of the Waverly Central School District adopted the following resolution:

RESOLVED, upon motion by Kasey Traub, seconded by Renee Kinsley and unanimously carried that the Waverly Central School District Board of Education does hereby approve support of the Village of Waverly NYS Park EFP CFA Grant for Waverly Glen Park Phase 1 Implementation.

WHEREAS, the Waverly Central School District is fully aware of the Village of Waverly's recent development of the Waverly Glen Master Plan; and,

WHEREAS, the Waverly Central School District uses Waverly Glen Park for school-related sports activities such as cross-country running practice and invitationals, as well as for elementary school children education and recreation programs; and,

WHEREAS, the Waverly Central School District is committed to continual and future use of the Waverly Glen Park for said purposes as there is no other recreational resource in which to conduct these school sports in the local area; therefore be it,

RESOLVED, that the Waverly Central School District does hereby support said grant application to NYS Parks and commits to continued use as specified of Waverly Glen Park.

A handwritten signature in cursive script that reads "Michelle L. Keene". The signature is written in dark ink and is positioned above a horizontal line.

Michelle L. Keene, District Clerk

7-13-2017

RESOLUTION #12-2017

TOWN OF BARTON BOARD SUPPORT OF THE VILLAGE OF WAVERLY

NYS PARKS EFP CFA GRANT FOR WAVERLY GLEN (PHASE 1)

WHEREAS: THE TOWN OF BARTON BOARD IS FULLY AWARE OF THE VILLAGE OF WAVERLY'S RECENT DEVELOPMENT OF THE WAVERLY GLEN PARK MASTER PLAN; AND

WHEREAS; WAVERLY GLEN PARK IS USED ROUTINELY BY TOWN OF BARTON RESIDENTS AS THE ONLY DEVELOPED RECREATION RESOURCE IN THE LOCAL AREA; AND

WHEREAS; THE PROPOSED CONNECTION TO THE TOWN RIVERS STATE PARK WILL MAKE THIS OUTDOOR RESOURCE EVEN MORE POPULAR WITH LOCAL RESIDENTS WHO ARE OUTDOOR ENTHUSIASIS; AND

NOW THEREFORE UPON A MOTION BY BOARD MEMBER KEVIN EVERLY, SECONDED BY BOARD MEMBER DONALD FOSTER ON THIS THE 10TH DAY OF JULY 2017 ; **IT IS AND HEREBY SHALL BE;**

RESOLVED; THAT THE TOWN OF BARTON BOARD DOES HEREBY SUPPORT SAID VILLAGE OF WAVERLY GRANT APPLICATION TO NYS PARKS;

ROLL CALL VOTE:

LEON CARY	AYE
JOHN TRYON	AYE
DAVID SHIPMAN	AYE
KEVIN EVERLY	AYE
DONALD FOSTER	AYE

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project: Waverly Glen Park Implementation Plan		
Project Location (describe, and attach a general location map): Village of Waverly, NY		
Brief Description of Proposed Action (include purpose or need): Since its founding in 1913, Waverly Glen Park has been a cherished asset to the Village of Waverly. However it had been without a formally established vision or plan. The recent Waverly Glen Park Master Plan (adopted by the Village of Waverly in 2017) provides an opportunity to give the park new facilities and recreational improvements, and to better serve both residents and visitors. Waverly Glen Park's location adjacent to Two Rivers State Park will be capitalized on to increase trail and recreational access to this 375 acre reserve and to link these two Parks as a regional tourism destination in southwestern Tioga County. The recommendations describe phasing and strategies to be used in implementing the plan. An estimate of the probable Phase 1 and later phase costs to improve the park is also included. Phase 1 provides for park survey, stormwater and cultural assessments. Improvements include a new drop-off area, wayfinding and park entrance, with safe separation of vehicles and pedestrians and trail connections with informational signs. Restroom and pavilions will be upgraded to meet ADA standards and accommodate increased use. Access to the park's waterfall will be enhanced with paved paths and streambank stabilizations. Age appropriate play equipment and athletic courts will be added and improved. The plan supports and complements the river communities' Comprehensive Plans and adds design elements that support the principles of a walkable community.		
Name of Applicant/Sponsor: Patrick Ayres, Mayor, Village of Waverly		Telephone: (607) 565-8106 E-Mail: mayor@villageofwaverly.com
Address: 32 Ithaca Street		
City/PO: Waverly	State: NY	Zip Code: 14892
Project Contact (if not same as sponsor; give name and title/role): Michael Haas		Telephone: 607-723-6005 E-Mail: mhaas@haas-la.com
Address: 9 South Washington Street		
City/PO: Binghamton	State: NY	Zip Code: 13903
Property Owner (if not same as sponsor):		Telephone: E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals**B. Government Approvals Funding, or Sponsorship.** ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No or Village Board of Trustees	Village Board of Trustees, SEQR & Plan adoption	July 25th, 2017
b. City, Town or Village Planning Board or Commission <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Village Planning Board Recommendation	July 11, 2017
c. City Council, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
e. County agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	County Planning Board, 239 Review Tourism Board, Resolution	July 19, 2017 July 17, 2017
f. Regional agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYS DOT Region 9 Susquehanna Heritage Area Commission, Resol'n.	July 2017 July 18, 2017
g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	SHPO, OPRHP NYS DEC Stormwater Plan. Art. 15 Permit	September 2017 March 2018
h. Federal agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	USACOE Nationwide Permit	March 2018
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? If Yes,		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
iii. Is the project site within a Coastal Erosion Hazard Area?		<input type="checkbox"/> Yes <input type="checkbox"/> No

C. Planning and Zoning

C.1. Planning and zoning actions.	
Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> If Yes, complete sections C, F and G. If No, proceed to question C.2 and complete all remaining sections and questions in Part 1 	
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes, identify the plan(s): <u>Susquehanna Heritage Area, Carantouan Greenway, Tioga County LWRP (2000 draft)</u>	
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes, identify the plan(s): _____ _____ _____	

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☒ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Open Space zoning district

b. Is the use permitted or allowed by a special or conditional use permit? ☒ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☒ No
If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Waverly Central School District

b. What police or other public protection forces serve the project site?
Village of Waverly Police Department

c. Which fire protection and emergency medical services serve the project site?
Waverly / Barton Fire Department and EMS

d. What parks serve the project site?
Waverly Glen Park and Two Rivers State Park

D. Project Details**D.1. Proposed and Potential Development**

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Recreational Park and Trails

b. a. Total acreage of the site of the proposed action? 64 acres
b. Total acreage to be physically disturbed? 4 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 107 acres

c. Is the proposed action an expansion of an existing project or use? ☒ Yes ☐ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % 45 Units: 1.6 Miles of Trails

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☒ No
If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) _____

ii. Is a cluster/conservation layout proposed? ☐ Yes ☒ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? ☒ Yes ☐ No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated 3
- Anticipated commencement date of phase 1 (including demolition) 06 month 2018 year
- Anticipated completion date of final phase 10 month 2021 year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

Phases for roadway paving improvements are contingent on completion of entrance reconstruction. Trail connections in future phases.

Phasing determined by priority and funding sources.

f. Does the project include new residential uses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If Yes, show numbers of units proposed.				
<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>	
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes,	
i. Total number of structures _____ 3+	
ii. Dimensions (in feet) of largest proposed structure: _____ 18" height; _____ 50" width; and _____ 60" length	
iii. Approximate extent of building space to be heated or cooled: _____ 0 square feet	

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes,	
i. Purpose of the impoundment: _____	
ii. If a water impoundment, the principal source of the water: <input type="checkbox"/> Ground water <input type="checkbox"/> Surface water streams <input type="checkbox"/> Other specify: _____	
iii. If other than water, identify the type of impounded/contained liquids and their source. _____	
iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres	
v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length	
vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____	

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes:	
i. What is the purpose of the excavation or dredging? _____	
ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?	
<ul style="list-style-type: none"> • Volume (specify tons or cubic yards): _____ • Over what duration of time? _____ 	
iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____	
iv. Will there be onsite dewatering or processing of excavated materials? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, describe. _____	
v. What is the total area to be dredged or excavated? _____ acres	
vi. What is the maximum area to be worked at any one time? _____ acres	
vii. What would be the maximum depth of excavation or dredging? _____ feet	
viii. Will the excavation require blasting? <input type="checkbox"/> Yes <input type="checkbox"/> No	
ix. Summarize site reclamation goals and plan: _____	

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes:	
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): <u>Dry Brook Stream, streambank stabilization</u>	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:
Streambank improvements to reduce erosion and improve access proposed along Dry Brook at waterfall viewing area (75 linear feet) and lower sections where channelized walls (350+/- linear feet) are failing.

iii. Will proposed action cause or result in disturbance to bottom sediments? ☒ Yes ☐ No

If Yes, describe: Repair/replacement of streambank retaining wall will require excavation along edge of stream bottom.

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☒ No

If Yes:

- acres of aquatic vegetation proposed to be removed 0
- expected acreage of aquatic vegetation proposed to be removed 0
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):

- proposed method of plant removal:

- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

Repair/replacement of streambank retaining wall will stabilize bank, create safe visual access and prevent future erosion.

c. Will the proposed action use, or create a new demand for water? ☐ Yes ☒ No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☒ No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐ Yes ☒ No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No

<ul style="list-style-type: none"> • Do existing sewer lines serve the project site? _____ • Will line extension within an existing district be necessary to serve the project? _____ <p>If Yes:</p> <ul style="list-style-type: none"> • Describe extensions or capacity expansions proposed to serve this project: _____ 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? _____	
If Yes: <ul style="list-style-type: none"> • Applicant/sponsor for new district: _____ • Date application submitted or anticipated: _____ • What is the receiving water for the wastewater discharge? _____ 	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans): _____	
vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? _____	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes: <ul style="list-style-type: none"> i. How much impervious surface will the project create in relation to total size of project parcel? _____ Square feet or _____ 0.3 acres (impervious surface) _____ Square feet or _____ 64 acres (parcel size) ii. Describe types of new point sources. <u>Asphalt parking, road expansion, concrete sidewalk, stone dust path, and pavilion roof</u> iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)? <u>On-site bioretention and infiltration basins planned at entrance and adjacent to parking</u> • If to surface waters, identify receiving water bodies or wetlands: _____ <u>Dry Brook</u> • Will stormwater runoff flow to adjacent properties? _____ 	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? _____	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes, identify: <ul style="list-style-type: none"> i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) _____ ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) _____ iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) _____ 	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes: <ul style="list-style-type: none"> i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) _____ ii. In addition to emissions as calculated in the application, the project will generate: <ul style="list-style-type: none"> • _____ Tons/year (short tons) of Carbon Dioxide (CO₂) • _____ Tons/year (short tons) of Nitrous Oxide (N₂O) • _____ Tons/year (short tons) of Perfluorocarbons (PFCs) • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆) • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs) • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs) 	
<input type="checkbox"/> Yes <input type="checkbox"/> No	

<p>h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Estimate methane generation in tons/year (metric): _____</p> <p>ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____</p>			
<p>i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____</p>			
<p>j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. When is the peak traffic expected (Check all that apply): <input type="checkbox"/> Morning <input type="checkbox"/> Evening <input type="checkbox"/> Weekend <input type="checkbox"/> Randomly between hours of _____ to _____.</p> <p>ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____</p> <p>iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____</p> <p>iv. Does the proposed action include any shared use parking? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____</p> <p>vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Estimate annual electricity demand during operation of the proposed action: _____</p> <p>ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____</p> <p>iii. Will the proposed action require a new, or an upgrade to, an existing substation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>l. Hours of operation. Answer all items which apply.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 7 AM - 5 PM • Saturday: _____ N/A • Sunday: _____ N/A • Holidays: _____ N/A </td> <td style="width: 50%; vertical-align: top;"> <p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Dawn to dusk • Saturday: _____ Dawn to dusk • Sunday: _____ Dawn to dusk • Holidays: _____ Dawn to dusk </td> </tr> </table>		<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 7 AM - 5 PM • Saturday: _____ N/A • Sunday: _____ N/A • Holidays: _____ N/A 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Dawn to dusk • Saturday: _____ Dawn to dusk • Sunday: _____ Dawn to dusk • Holidays: _____ Dawn to dusk
<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 7 AM - 5 PM • Saturday: _____ N/A • Sunday: _____ N/A • Holidays: _____ N/A 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Dawn to dusk • Saturday: _____ Dawn to dusk • Sunday: _____ Dawn to dusk • Holidays: _____ Dawn to dusk 		

<p>m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Provide details including sources, time of day and duration: <u>Construction equipment will produce noise only during working hours (7 AM - 5 PM weekdays)</u></p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe: _____</p>	
<p>n.. Will the proposed action have outdoor lighting? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: <u>Upgraded electric service and LED security lighting planned at large pavilion and restroom</u></p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe: _____</p>	
<p>o. Does the proposed action have the potential to produce odors for more than one hour per day? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____</p>	
<p>p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products (185 gallons in above ground storage or an amount in underground storage)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Product(s) to be stored _____</p> <p>ii. Volume(s) _____ per unit time _____ (e.g., month, year)</p> <p>iii. Generally describe proposed storage facilities: _____</p>	
<p>q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe proposed treatment(s): _____</p>	
<p>ii. Will the proposed action use Integrated Pest Management Practices? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe any solid waste(s) to be generated during construction or operation of the facility:</p> <ul style="list-style-type: none"> • Construction: _____ tons per _____ (unit of time) • Operation : _____ tons per _____ (unit of time) <p>ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:</p> <ul style="list-style-type: none"> • Construction: _____ • Operation: _____ <p>iii. Proposed disposal methods/facilities for solid waste generated on-site:</p> <ul style="list-style-type: none"> • Construction: _____ • Operation: _____ 	

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☒ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☒ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: _____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

- ☐ Urban ☐ Industrial ☐ Commercial ☐ Residential (suburban) ☒ Rural (non-farm)
☒ Forest ☐ Agriculture ☒ Aquatic ☒ Other (specify): Open space

ii. If mix of uses, generally describe:

Park is located in a natural glen with channelized Dry Brook, waterfall and upper reservoir. Surround Two Rivers State Park is wooded natural reserve with primitive hiking and mountain bike trails through wooded area and meadows

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	2.5	2.8	+0.3
• Forested	33.2	32.7	-0.5
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	19.1	19.3	+0.2
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	9.1	9.1	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation? i. If Yes: explain: <u>Public Recreational Park</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, i. Identify Facilities: <u>Waverly Glen Park Youth Summer Recreation Program (serves 1500+/- K-8 children), (4) Picnic Pavilions rented out for seasonal use by residents and civic groups;</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
e. Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: <ul style="list-style-type: none"> • Dam height: <u>54</u> feet • Dam length: <u>310</u> feet • Surface area: <u>18</u> acres • Volume impounded: <u>160 acre-feet</u> gallons OR acre-feet ii. Dam's existing hazard classification: <u>C (High Hazard)</u> iii. Provide date and summarize results of last inspection: <u>6/2/16 No condition rating.</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: i. Has the facility been formally closed? <ul style="list-style-type: none"> • If yes, cite sources/documentation: _____ ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: _____ _____ _____ iii. Describe any development constraints due to the prior solid waste activities: _____ _____ _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: _____ _____ _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If Yes: i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Yes – Spills Incidents database <input type="checkbox"/> Yes – Environmental Site Remediation database <input type="checkbox"/> Neither database </div> <div> Provide DEC ID number(s): _____ Provide DEC ID number(s): _____ </div> </div> ii. If site has been subject of RCRA corrective activities, describe control measures: _____ _____ _____ iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s): _____ iv. If yes to (i), (ii) or (iii) above, describe current status of site(s): _____ _____ _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ 2 feet

b. Are there bedrock outcroppings on the project site? ☒ Yes ☐ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ <1 %

c. Predominant soil type(s) present on project site:

Cdr (Mardin gravelly silt loam)	40.8 %
Cdu (Mardin gravelly silt loam)	31.4 %
Vcs (Volusia channery silt loam)	11.6 %

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils: ☒ Well Drained: 3.4 % of site
☒ Moderately Well Drained: 72.2 % of site
☒ Poorly Drained 11.6 % of site

f. Approximate proportion of proposed action site with slopes: ☒ 0-10%: 31.4 % of site
☒ 10-15%: 52.4 % of site
☒ 15% or greater: 16.2 % of site

g. Are there any unique geologic features on the project site? ☒ Yes ☐ No
If Yes, describe: Waterfall and adjacent escarpment below lower dam.

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☒ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☒ Yes ☐ No
If Yes to either i or ii, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☒ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

• Streams:	Name 931-24, 931-23, 931-25	Classification AA, C
• Lakes or Ponds:	Name _____	Classification _____
• Wetlands:	Name Federal Waters	Approximate Size _____
• Wetland No. (if regulated by DEC)	_____	

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☒ No
If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☒ Yes ☐ No

j. Is the project site in the 100 year Floodplain? ☒ Yes ☐ No

k. Is the project site in the 500 year Floodplain? ☒ Yes ☐ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☒ Yes ☐ No
If Yes:

i. Name of aquifer: Sole Source Aquifer Name: Clinton Street Ballpark SSA, Principal Aquifer

m. Identify the predominant wildlife species that occupy or use the project site:		
Appalachian Oak-Hickory forest	Conifer Plantation	Successional Northern Hardwoods
Appalachian Oak-Hickory forest	Conifer Plantation	Successional Northern Hardwoods
Appalachian Oak-Hickory forest	Conifer Plantation	Successional Northern Hardwoods

n. Does the project site contain a designated significant natural community? ☐ Yes ☒ No
 If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☒ Yes ☐ No

Adjacent property (Two Rivers State Park) contains two rare plants: Ccarex retroflexa and Hydrangea arborescens

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☒ No

Hunting and fishing at Two Rivers State Park Recreation Area (adjoining) and fishing on site will not be adversely affected by the project.

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☒ Yes ☐ No
 If yes, give a brief description of how the proposed action may affect that use: _____
 Hunting and fishing at Two Rivers State Park Recreation Area (adjoining) and fishing on site will not be adversely affected by the project.

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☒ No
 If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☒ No
 i. If Yes: acreage(s) on project site? _____
 ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☒ No
 If Yes:

i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
 ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☒ No
 If Yes:

i. CEA name: _____
 ii. Basis for designation: _____
 iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes: <ul style="list-style-type: none"> i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input checked="" type="checkbox"/> Historic Building or District ii. Name: <u>Glenwood Cemetery and Mausoleum</u> iii. Brief description of attributes on which listing is based: <u>historic cemetery mausoleum</u> 	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes: <ul style="list-style-type: none"> i. Describe possible resource(s): <u>1922 steel pavilion structure</u> ii. Basis for identification: _____ 	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes: <ul style="list-style-type: none"> i. Identify resource: <u>Two Rivers State Park</u> ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): <u>State Park Reserve</u> iii. Distance between project and resource: _____ 0 miles. 	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes: <ul style="list-style-type: none"> i. Identify the name of the river and its designation: _____ ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? <input type="checkbox"/> Yes <input type="checkbox"/> No 	

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

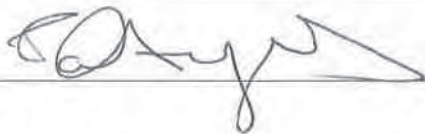
G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Patrick Ayres, Mayor, Village of Waverly

Date 7/25/17

Signature _____



Title Mayor

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VILLAGE OF WAVERLY

Waverly, New York 14892

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PATRICK AYRES
Mayor

MICHELE WOOD
Clerk/Treasurer

BETTY J. KEENE
Attorney

WHEREAS: The Village of Waverly Board of Recreation Commissioners participated fully in the development of Waverly Glen Park Master Plan; and

WHEREAS: The Village of Waverly Board of Recreation Commissioners realizes the importance and significance of such outdoor recreational resource for its residents and various local community groups and runs the very popular summer recreation program in this park for disadvantaged youth; and

WHEREAS: The Village of Waverly Board of Recreation Commissioners is committed to improving Waverly Glen park for all ages including a safer entrance, roadways and parking areas, updated and safer playground equipment, safer access to the falls, stabilized streambanks for Dry Brook, and improved pavilions, and trail connection to the adjacent Two Rivers State Park; and

WHEREAS: The Village of Waverly Board of Recreation Commissioners commits to in-kind services for the NYS EPF CFA grant application for Phase 1 improvements to Waverly Glen Park by the contribution of staff time and equipment; therefore be it

RESOLVED: That The Village of Waverly Board of Recreation Commissioners hereby authorizes contribution of Staff time and equipment to support said grant application to NYS Parks and commits to continuing maintenance of Waverly Glen Park perpetuity.

TIOGA COUNTY LDC TOURISM BOARD
SUPPORT FOR THE VILLAGE OF WAVERLY
NYS PARKS EFP CFA GRANT FOR WAVERLY
GLEN PARK PHASE 1 IMPLEMENTATION

WHEREAS: The Tioga County Local Development Corporation (TCLDC) focuses on tourism issues and projects in Tioga County; and

WHEREAS: The TCLDC Board is aware that outdoor recreational resources, especially those as significant as Waverly Glen Park and its potential trail connection to the Twin Rivers State Park, are vital to tourism; and

WHEREAS: The potential trails connection to Two Rivers State Park could aid in attracting more visitors to Tioga County, and therefore could increase sales tax in the local Waverly area and County; and

WHEREAS: The Tioga County 2020 Strategic Plan lists as an Overall Priority Goal to "Maintain and strengthen Tioga County's position as a tourism destination", and an Objective under that to "Increase visitors' length of stay and spending by assisting with projects that develop and enhance new and existing tourism assets...as well as increasing recreational, cultural, and entertainment opportunities", so this project is in accordance and implements this Plan; therefore be it

RESOLVED: That the Tioga County LDC Tourism Board fully supports the Village of Waverly's NYS Park EPF CFA grant application for Phase 1 improvements to Waverly Glen Park.

CERTIFIED COPY OF RESOLUTION ADOPTED BY THE TIOGA COUNTY LEGISLATURE
ADOPTED 7/11/2017

REFERRED TO:

ED&P COMMITTEE

RESOLUTION NO. 176-17

TIOGA COUNTY SUPPORT FOR THE VILLAGE
OF WAVERLY NYS PARKS EFP CFA GRANT
FOR WAVERLY GLEN PARK PHASE 1
IMPLEMENTATION

WHEREAS: The Tioga County Legislature adopted the Tioga County 2020 Strategic Plan, per resolution 140-16; and

WHEREAS: The Tioga County 2020 Strategic Plan lists as an Overall Priority Goal to "Maintain and strengthen Tioga County's position as a tourism destination", and an Objective under that to "Increase visitors" length of stay and spending by assisting with projects that develop and enhance new and existing tourism assets...as well as increasing recreational, cultural, and entertainment opportunities"; and

WHEREAS: The Waverly Glen Park improvement project is a project that implements the goal and objective listed above, particularly the planned trails connection to Two Rivers State Park which could aid in attracting more visitors to Tioga County, and therefore could increase sales tax in the local Waverly area and County; therefore be it

RESOLVED: That the Tioga County Legislature hereby fully supports the Village of Waverly's NYS Park EPF CFA grant application for Phase 1 improvements to Waverly Glen Park.

STATE OF NEW YORK)

SS.:

COUNTY OF TIOGA)

This is to certify that I, the undersigned, Clerk of the Tioga County Legislature, have compared the foregoing copy of the resolution with the original resolution now on file in the office, and which was passed by the Legislature of said County on the eleventh day of July, 2017, a majority of all the members elected to the Legislature voting in favor thereof, and that the same is a correct and true transcript of such original resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and the official seal of the County Legislature this eleventh day of July, 2017.



Margaret J. Dougherty
Clerk of the Tioga County Legislature



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fax: 607 687 1435

EDP.tiogacountyny.com

info@developtioga.com

July 19th, 2017

Kerri Hazen, Deputy Clerk / Treasurer
Village of Waverly
32 Ithaca St
Waverly NY 14892

Patrick Ayres, Mayor
Village of Waverly
32 Ithaca St
Waverly NY 14892

RE: County Case # 2017-016 Local Case No.: 05-2017
Adopt Waverly Glen Park Master Plan

Pursuant to Article 12B, Section 239m of NYS General Municipal Law, the Tioga County Planning Board has reviewed the cited case at their July 19th meeting and made a recommendation for **Approval of the Waverly Glen Park Master Plan Adoption**. It is therefore requested that the appropriate Village of Waverly Board(s) consider the information presented in the attached document, "Staff Analysis and Recommendation, Section 239 Review" when rendering a decision on this case.

Please notify this office of your Board's decision.

Sincerely,

Elaine D. Jardine
County Planning Director

File:239/2017-016N



Tel: 607 687 8255

Fax: 607 687 1435

tiogacountyny.com

TIOGA COUNTY DEPT OF ECONOMIC DEVELOPMENT & PLANNING
STAFF ANALYSIS AND RECOMMENDATIONS
SECTION 239 REVIEW

COUNTY CASE: #2017-016

VILLAGE OF WAVERLY

APPLICANT: Village of Waverly Board of Trustees

DATE RECEIVED: 7/7/2017

REQUEST: Waverly Glen Park Master Plan adoption

LOCATION: Waverly Glen Park

ZONING: N/A

General Information:

The Village of Waverly has had an active project team working on this Master Plan including the consultant, Haas Landscape Architects, Village of Waverly Mayor, Village of Waverly Parks & Recreation Director, Tioga County Tourism Director, Tioga County Planning Director, Tioga County Economic Development Specialist, as well as indirectly the Village of Waverly Water Treatment Plan Operator and Village of Waverly Clerk and Deputy Clerk..

Comments:

The document is organized and clear regarding needed improvements and the proposed projects to implement those improvements. These improvements are proposed in three phases, as there are many significant improvement projects detailed. All phases include a substantial signage component. This wayfinding and interior signage is crucial as it is not visually apparent how to find the park using the village streets, and the signs will show how the trail system connects with the adjacent Two Rivers State Park.

Waverly Glen Park is an outdoor recreation resource that is a hidden gem in Tioga County. It is the only park with a waterfall in the county. These improvements detailed in the Master Plan, when completed, will make the park significantly more enjoyable to residents not only in Waverly, but all throughout the county. The Village of Waverly is currently undertaking a Consolidated Funding Application to NYS Office of Parks, Recreation and Historic Preservation to implement Phase 1 improvement to Waverly Glen Park.

RECOMMENDATION: After thorough consideration of the above, Staff advises the County Planning Board recommend **APPROVAL of the Waverly Glen Park Master Plan.**