

2012/2013

Cultural Resources Survey Addendum



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**ARCHAEOLOGICAL AND ARCHITECTURAL
SURVEY FOR DUKE ENERGY**

**BALL HILL WINDPARK ADDENDUM,
TOWNS OF VILLENOVA AND HANOVER,
CHAUTAUQUA COUNTY, NEW YORK**

OPRHP#8PR01814

Prepared for:

**ECOLOGY & ENVIRONMENT, INC.
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Prepared by:

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May 2013

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Management Summary

SHPO Project Review Number: #08PR01814

Involved State and Federal Agencies: U.S. Army Corps of Engineers, New York State Department of Environmental Conservation, Public Service Commission

Phase of Survey: Addendum Phase I archaeological and architectural survey

Project Location Information

Location: see minor civil division below

Minor Civil Division: Towns of Villenova (MCD 01326) and Hanover (MCD 01314)

County: Chautauqua

Five-mile Ring Information

Minor Civil Division: Towns of Arkwright (MCD 01301), Charlotte (MCD 01304), Cherry Creek (MCD 01306), Hanover (MCD 01314), Sheridan (MCD 01323), and Villenova (MCD 01326), and the villages of Forestville (MCD 01352), Silver Creek (MCD 01346), Chautauqua County; and Towns of Dayton (MCD 00906), Leon (MCD 00917), and Perrysburg (MCD 00926), and the villages of Perrysburg (MCD 00951) and South Dayton (MCD 00954), Cattaraugus County

Counties: Chautauqua and Cattaraugus

Number of Proposed Turbines: 42 total (35 in Villenova; 7 in Hanover)

Architectural Survey Area:

Total area surveyed: The current total area within five miles of the Ball Hill Turbines is 169.4 sq miles, of which turbines are visible from 128.8 sq miles.

USGS 7.5-Minute Quadrangle Maps (all New York): Archaeological Investigation: Forestville (1979);
Architectural Investigation: Cassadega (1976), Cherry Creek (1976), Dunkirk (1979), Farnham (1960), Forestville (1979), Hamlet (1976), Perrysburg (1976), and Silver Creek (1960)

Results of Archaeological Survey: (see separate report)

A total of 70 shovel tests were dug at three MDS locations; one historical site (PCI/Ball Hill-3) was identified, located on the north side of Villenova Road west of its intersection with North Hill Road in the Town of Villenova.

Results of Architectural Survey

Number of previously determined NR-listed or –eligible buildings/structures/cemeteries/districts in the positive Zone of Visual Influence (ZVI):

- No National Register-listed properties
- 136 individual National Register-eligible (NRE) properties and two NRE historic districts, Ewing Park South Dayton Historic District (13 contributing and 1 non-contributing properties) and Silver Creek Historic District (approximately 35 contributing properties, number of non-contributing is unknown)

Number of recommended NRE buildings/structures/cemeteries/districts in the positive ZVI:

Eight individual properties, part of a recommended historic district, Center Street Historic District in Forestville, which consists of 14 primary buildings (13 contributing resources and one non-contributing resource), and four recommended contributing properties to the Silver Creek Historic District.

Report Author(s): D. Smith, C. Longiaru, F. Schieppati, M. Steinback, and M. Cinquino.

Report Date: May 2013

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1.0 Introduction

1.1 PROJECT DESCRIPTION

Panamerican Consultants, Inc. (Panamerican) was contracted by Ecology & Environment, Inc. (E&E), Lancaster, New York, to complete an archaeological and architectural survey addendum for the Duke Energy Ball Hill Windpark, a wind-energy project proposed in the Towns of Hanover and Villenova, Chautauqua County, New York (Figure 1.1). Cultural resources investigations were completed for earlier configurations of the project in 2008, including: a Phase I archaeological survey (Hanley et al. 2008b); an addendum archaeological investigation in which the addition of several project components (laydown areas, a switchyard, and a substation) was addressed (Hanley et al. 2008a); and an historical architectural investigation, which assessed the effects of the project on historical cultural resources in the surrounding landscape (Longiaru et al. 2008). The current investigation was conducted to account for more recent changes to the project layout (Figure 1.2).

The project consists of two distinct portions: power generation and transmission. The wind-energy generation component (i.e. wind turbines and their auxiliary facilities) will be in the towns of Villenova and Hanover. The transmission component will be in the Town of Hanover. The generation portion of the project includes:

- Installation and operation of 42 wind turbines with a total capacity of 96.6 megawatts (MW) within an approximately 13,500-acre area in the towns of Villenova and Hanover. Seven turbines will be in Hanover and the remaining 35 will be in Villenova (see Figure 1.1).¹ Eleven of the turbines in Villenova (nos. 8, 9, 10, 11, 20, 21, 22, 24, 28, 29, and 30 – see Figure 1.1) will have a total height of 133 m (80 m hub height plus 53 m blade length) and the remainder will be 151 m in total height (98 m hub height plus 53 m blade length). Below ground disturbances for each turbine vary from 1.3 to 3.3 acres and total 87.3 acres.
- Construction and use of approximately 14.3 miles (23 kilometers) of access roads that will connect each wind turbine to a town or county roadway to permit equipment and vehicle access for construction and subsequent maintenance of the facilities. The construction Area of Potential Effect (APE) for the access roads typically varies from 60 to 80 ft (18 to 24 meters) in width and, in places, is up to 100 ft (30 meters) wide. The roads cover a total of 142.1 acres, exclusive of areas where it intersects other project components. After construction, the same access roads will be scaled back to a typical width of 16 ft (4.9 m) to facilitate maintenance and operations;
- Construction and use of an electrical collection system through which electricity will be delivered to a new substation (see below) to be constructed in the Town of Hanover as part of the transmission portion of the project. The connection system includes about 26.7 linear miles of connection lines, roughly one-quarter of which will comprise two or more connectors adjacent to one another. The construction corridor for the

¹Two turbines were removed from the planned wind farm late in the design process (nos. 23 and 40) and the remaining turbines were left with their original numerical designations; thus, the numbering sequence for the turbines (see Figure 1.1) extends to 44, but does not include 23 and 40.

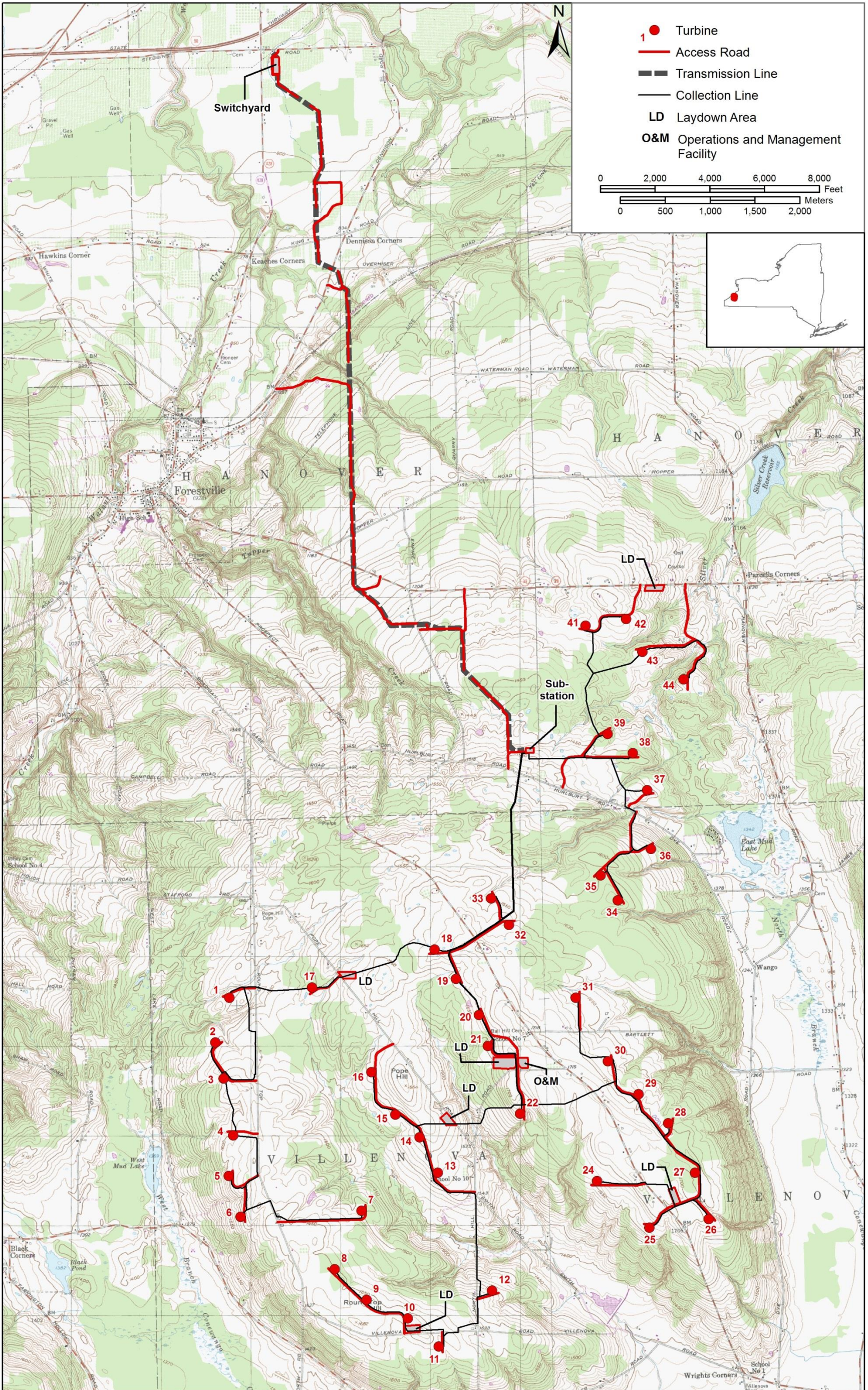


Figure 1.1. The proposed Duke Energy Windpark, Towns of Hanover and Villenova, Chautauqua County, New York (USGS 24k Series Topographic: Silver Creek, NY 1960, Farnham, NY 1960, Perrysburg, NY 1979, Forestville, NY 1979).

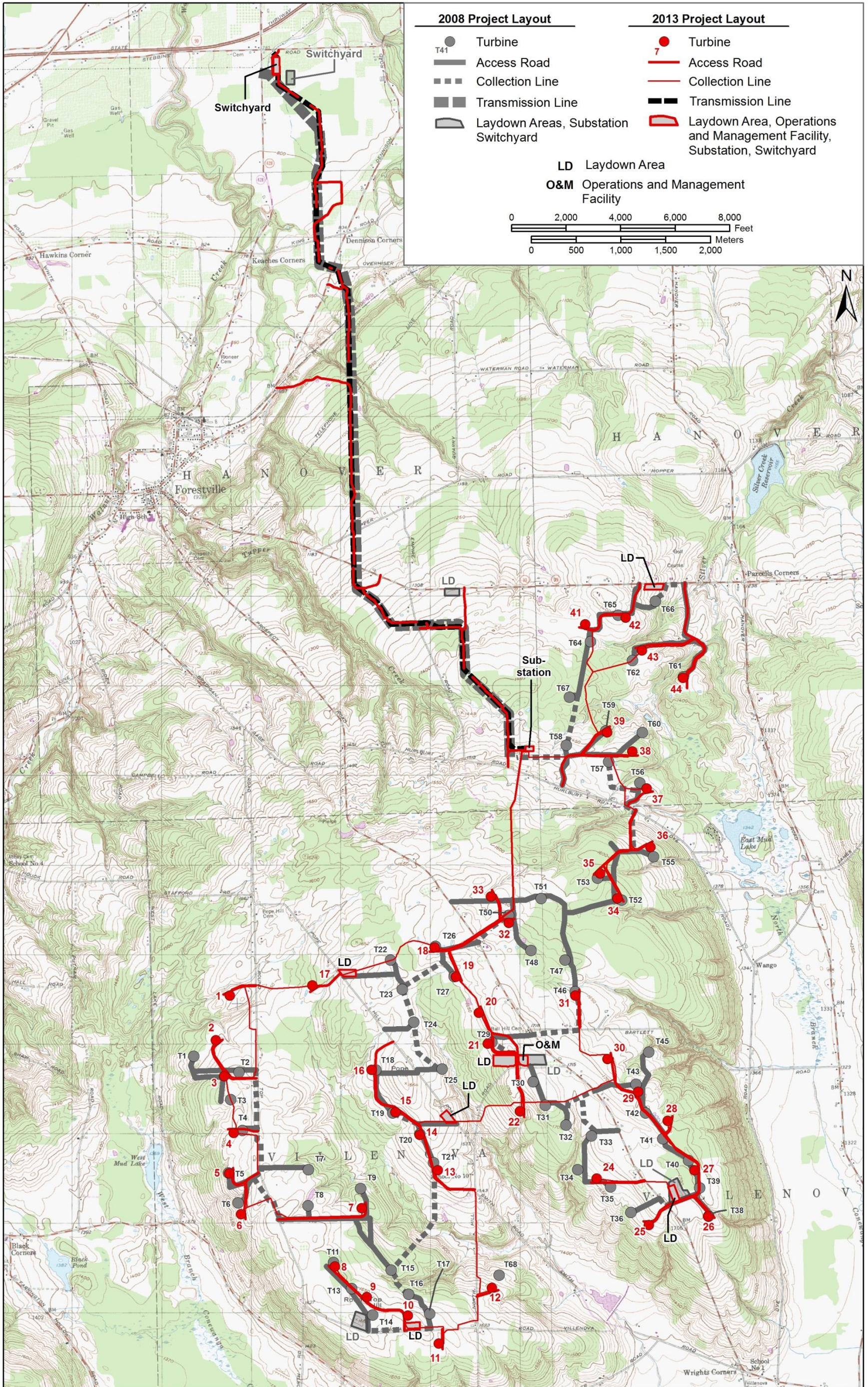


Figure 1.2. The 2013 configuration of the project area relative to its 2008 layout (USGS 24k Series Topographic: Silver Creek, NY 1960, Farnham, NY 1960, Perrysburg, NY 1979, Forestville, NY 1979).

collection lines is a maximum of 25 ft in width. The system covers a total of 66 acres, exclusive of areas where it intersects other project components;

- Six areas totaling 21.8 acres (exclusive of other project components) to be used as laydown facilities for project components during project construction; and
- A 2.6-acre area (exclusive of other project components) to be used as an operations and management facility.

The transmission portion of the Project consists of:

- Installation and use of an approximately 5.9-mile (9.7-km) overhead transmission line, sited in the Town of Hanover. The line will be carried on poles ranging from 55.5 to 75 ft (16.9 to 20.4 m) tall. Its construction corridor will be 120 ft wide and cover a total of 85.77 acres;
- Construction and use of a new substation in the Town of Hanover that will connect the wind energy generating complex with the transmission line. The substation will be east of Empire Road and north of Hurlburt Road and will have a physical APE of 1.9 acres;
- Construction and use of a switchyard in the Town of Hanover to connect the transmission line with National Grid's existing 230-kV Dunkirk-Gardenville transmission line north of the Village of Forestville. The physical APE for the switchyard covers a total of 5.4 acres, of which 3.7 are outside the construction corridor for the transmission line; and
- Construction of approximately 7.7 miles of temporary access roads for use during the construction of the transmission line. The roads have a typical width of 12 ft. All but 5.4 acres of the physical APE for the roads overlap with those of the transmission line, substation, and switchyard.

The total physical APE for the project is approximately 416 acres. The project areas for the previous investigations measured 375 acres (initial 2008 Phase I investigations) and 401 acres (2008 archaeological addendum), respectively. These additional 15 acres were not included in this study and will be addressed in future investigation. (A further discussion is presented in Section 2, page 2-24).

The purpose of this addendum is to identify potentially National Register-eligible (NRE) properties in the parts of the current physical and visible APEs for the project that are outside the areas covered by the earlier investigations. The Phase I archaeological background research results (see Hanley et al. 2008b) were used to determine if previously reported archaeological sites were present and to help assess archaeological sensitivity. The archaeological portion of the investigation also included an intensive walkover reconnaissance, photographic documentation of conditions, and shovel testing following New York State Historic Preservation Office (NYSHPO) *Guidelines for Wind Farm Development Cultural Resources Survey Work* (2006).

The purpose of the architectural portion of the addendum survey was to identify NRE properties in the revised five-mile visual APE of the proposed Duke Energy Windpark. The Duke

Energy Windpark Addendum NRE recommendations in this report are preliminary and **not** considered final determinations of National Register eligibility. Final determinations will be made by NYSHPO. The historic building survey of the five-mile APE study area and the three-mile APE study area was conducted in compliance with NYSHPO *Guidelines for Wind Farm Development Cultural Resources Survey Work* (2006).

The cultural resources investigation was conducted in compliance with the New York State Historic Preservation Act, the State Environmental Quality Review Act, the National Historic Preservation Act, and the National Environmental Policy Act, as well as all relevant state and federal legislation. The investigation was also conducted according to the New York Archaeological Council's (NYAC) Standards for Archaeological Investigations, the New York State Historic Preservation Office *Guidelines for Wind Farm Development Cultural Resources Survey Work*, and New York State Historic Preservation Office Guidelines.

The addendum investigation was conducted by Panamerican in September and October, 2012. Dr. Donald A. Smith, RPA and Ms. Christine M. Longiaru, M.A., served as Co-Principal Investigators. Ms. Longiaru also served as Architectural Historian and Dr. Smith served as Project Archaeologist and Geographic Information Analyst. Archaeological field work was conducted on September 25 and was supervised by Mr. Edwin Button, M.A., assisted by three field technicians. Remaining project personnel included: Senior Historian Mr. Mark A. Steinback, M.A.; Project Director/Senior Archaeologist Dr. Michael A. Cinquino, RPA; and Senior Preservation Planner/Senior Archaeologist Dr. Frank J. Schieppati.

2.0 Archaeological Investigation

2.1 CURRENT PROJECT AREA RELATIVE TO PREVIOUSLY INVESTIGATED AREAS

The purpose of the archaeological portion of the addendum is to identify all archaeological cultural resources within the project area. According to the NYSHPO *Guidelines for Wind Farm Development Cultural Resources Survey Work* (2006), field methods / testing strategies for wind-farm archaeological investigations are largely based on three criteria: the relative distribution of “Environmental Zones” within the project’s physical / archaeological APE; the presence of previously identified archaeological sites in or near the APE; and the presence of structures shown on historical maps (i.e., map-documented structures [MDSs]) in or near the APE. Below-ground investigation includes shovel testing at a close (i.e., five-meter) interval in samples of each Environmental Zone present in a project area. The total number of shovel tests for the project is determined by multiplying the project area acreage by 16 and proportionally distributing the total among the Environmental Zones, relative to the percentage of the project area covered by each. Also, all locations of previously identified sites or MDSs are tested; the numbers of shovel tests excavated at each are included in the overall distribution of tests based on the Environmental Zones.

The area investigated during the original 2008 Phase I survey (Hanley et al. 2008b) and the 2008 addendum (which addressed the APEs for laydown areas, a switchyard, and a substation that were not included in the initial survey; Hanley et al. 2008a) totaled 400.61 acres that extended across parts of six Environmental Zones, including: areas near streams and stream headwaters; bogs, swamps, and ponds; lake plain (i.e., Lake Erie lake plain); upland slope / margin (i.e., the slope along the southern boundary of the lake plain); summits, knolls and ridges; and upland areas between summits and knolls (Table 2.1; see Hanley et al. 2008a; 2008b:3-2). The zones were tested with a total of 6,416 shovel tests distributed among 16 turbine locations, 23 portions of 21 project linear components (Hanley et al. 2008b); and one laydown area (Hanley et al. 2008a) (Figure 2.1).

Table 2.1. Environmental Zone distribution for 2008 and current project configurations.

| Landform | Project Configuration 2008 Reports | Current Project Configuration |
|---|------------------------------------|-------------------------------|
| Areas near streams | 1.82% | 2.55% |
| Bogs, swamps, or ponds | 0.56% | 1.75% |
| Lake Plain | 5.53% | 6.54% |
| Upland Margin | 13.65% | 13.86% |
| Summits, knolls, and ridges | 10.67% | 6.94% |
| Uplands between summits and knolls | 67.78% | 68.36% |

The current project area falls within the same overall project footprint as the 2008 configuration and extends across parts of the same Environmental Zones with a similar distribution (Figure 2.2; see Table 2.1 and Figure 1.2). However, it also covers a slightly larger

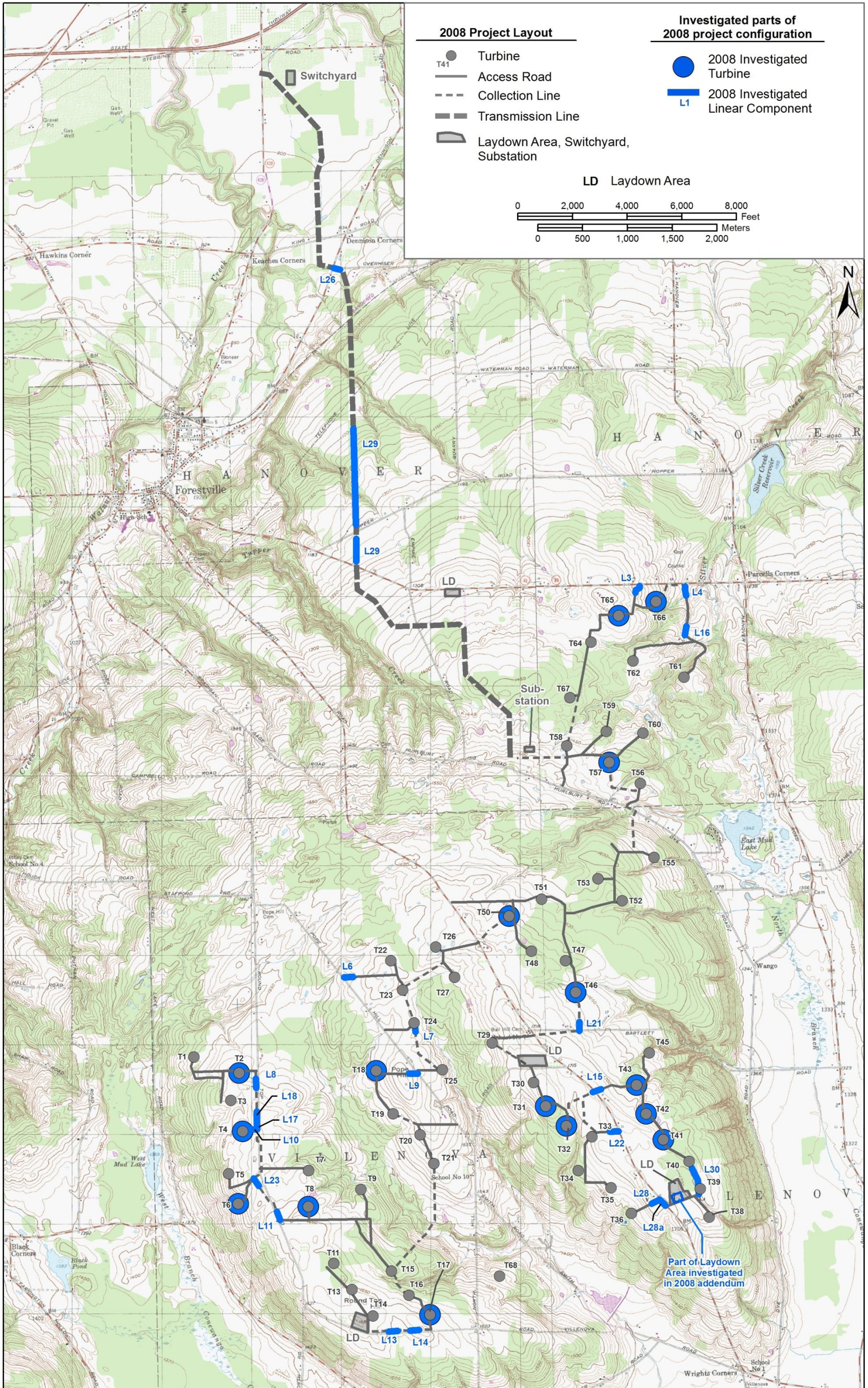


Figure 2.1. Distribution of 2008 tested areas on 2008 project area (USGS 24k Series Topographic: Silver Creek, NY 1960, Farnham, NY 1960, Perrysburg, NY 1979, Forestville, NY 1979).

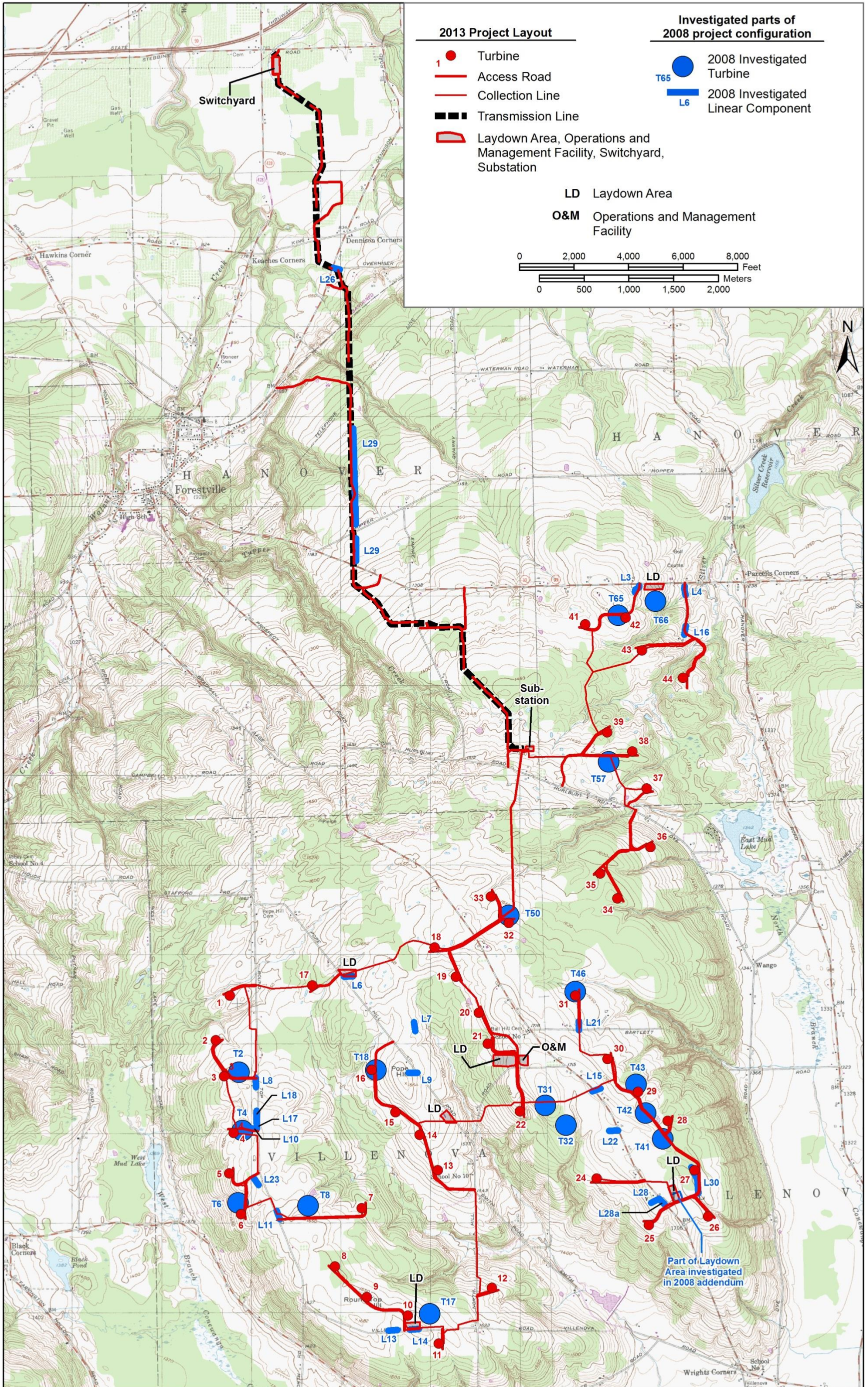


Figure 2.2. 2008 tested areas relative to the current project area (USGS 24k Series Topographic: Silver Creek, NY 1960, Farnham, NY 1960, Perrysburg, NY 1979, Forestville, NY 1979).

total area (416.2 acres) than the 2008 project area (401 acres). While 6,416 shovel tests were dug for the 2008 configuration, 6,656 tests are needed to cover its current layout. Thus, on the basis of the Environmental Zone criterion of the NYSHPO wind farm guidelines, Panamerican recommends the excavation of an additional 240 STPs apportioned among the project area Environmental Zones at a similar ratio as tests dug during the 2008 investigations.

A review of archaeological site files at the New York State Office of Parks, Recreation and Historic Preservation (OPRHP) and the New York State Museum conducted during the previous investigations for the Project indicates there are 18 previously identified archaeological sites within five miles of the project area. None are in or near its current configuration (see Hanley 2008b:2-14).

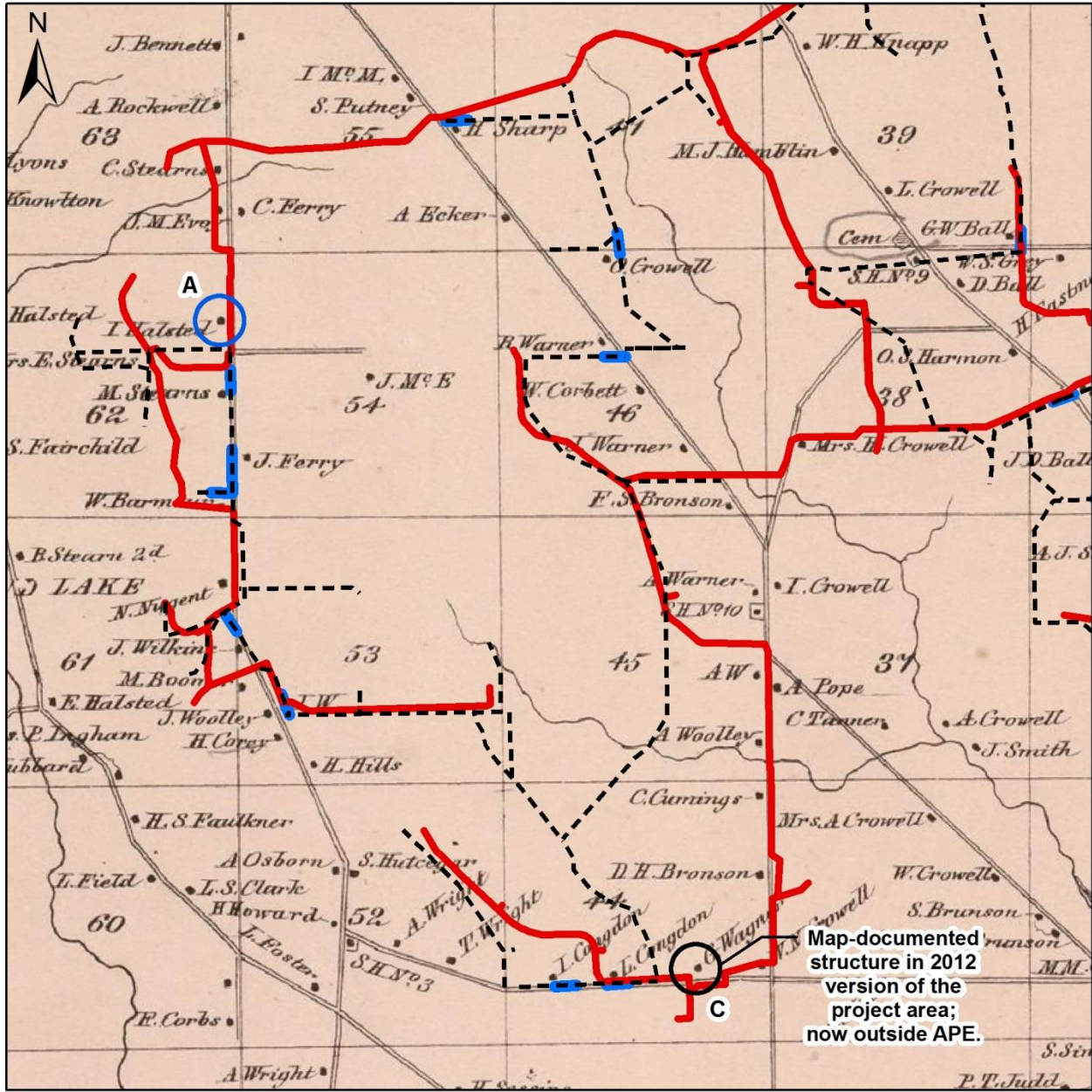
Inspection of historical maps, including Stewart (1867), Beers (1881), and U.S. Geological Survey (USGS) topographical quadrangles (1900) conducted during the 2008 investigations revealed that Project access roads and connection lines crossed the locations of 20 MDSs. Archaeological survey at these locations identified historical sites at linear testing areas L3 and L13, which were designated PCI/Ball Hill-1 and PCI/Ball Hill-2, respectively. Project components near L3 were redesigned in 2008 to avoid PCI/Ball Hill-1 and PCI/Ball Hill-2 is no longer in the archaeological APE.

The current project configuration includes several areas in the Town of Villenova, Chautauqua County, where linear components extend along roads that were well outside the archaeological APE for the 2008 layout, including: Round Top Road south of Turbine 1; Villenova Road east of Turbine 11; and North Hill Road north of Turbine 12 (see Figure 1.2; turbine references are for the 2013 project layout). Inspection of the historical maps indicates these parts of the project area intersect with the locations of two MDSs, arbitrarily designated A and B, respectively (Figures 2.3 to 2.6; Table 2.2). MDS A appears on maps from 1867, 1881, and 1900, and MDS B is shown on the 1900 map. Archaeological investigation was conducted in the project APE at both MDS locations.

An additional MDS (MDS C) is shown on historical maps on the north side of Villenova Road at a location that was within the APE for in an interim 2012 configuration of the project area. This location was subjected to archaeological investigation for the interim version of the APE, during which an archaeological site associated with the MDS was identified. While the project APE has since been altered to avoid the MDS location, the results of the archaeological investigation there are included in this report, since a site was identified.

Table 2.2. Map-documented structures in the current archaeological APE for the project that were outside its 2008 configuration.

| MDS | Historical Map | Associated Individual | Location |
|---------------------------------|---|-----------------------------------|--|
| A | 1867 Stewart 1881 Beers 1900 USGS | I. Halstead I. Halstead n/a | West side of Round Top Road, south-southeast of Turbine 1 |
| B | 1900 USGS | n/a | West side of North Hill Road at its intersection with Smith Road |
| C (not in current project area) | 1867 Stewart 1881 Beers 1900 USGS | G. Wagner O.W. Hickey n/a | North side of Villenova Road west of its intersection with North Hill Road |



- Current Project Configuration - Collection Line
- - - 2008 Project Configuration Linear Component
- ▭ Previously investigated portion of 2008 project linear component
- Map-documented structure in current APE and not in 2008 APE

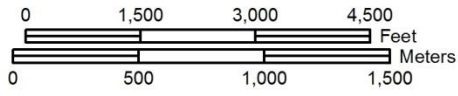
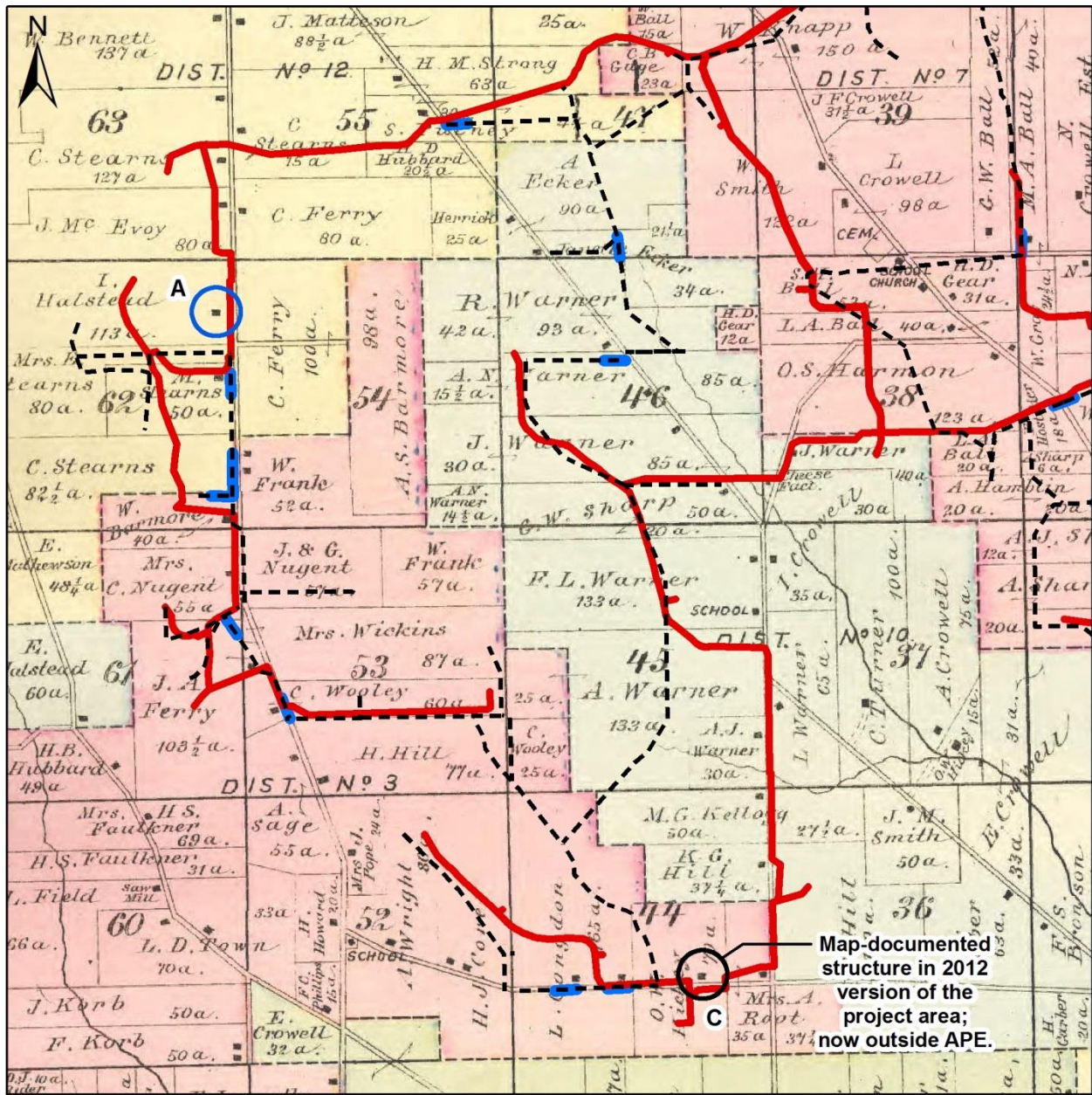
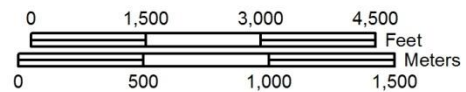


Figure 2.3. The southwest part of the current layout of project collection lines and 2008 linear component configuration on an 1867 historical map (Stewart 1867).

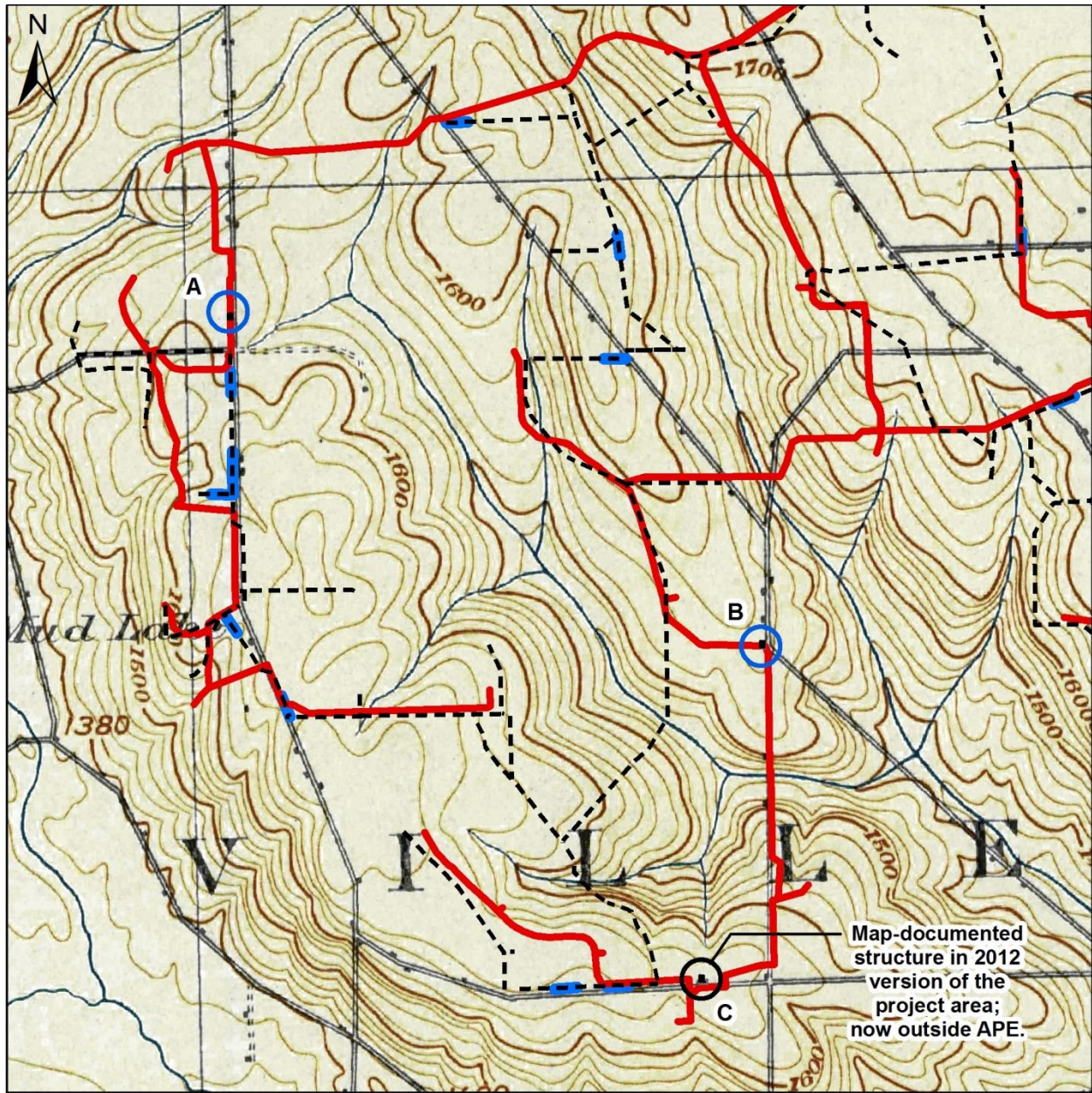


- Current Project Configuration - Collection Line
- - - 2008 Project Configuration Linear Component
- Previously investigated portion of 2008 project linear component
- Map-documented structure in current APE and not in 2008 APE



Map-documented structure in 2012 version of the project area; now outside APE.

Figure 2.4. The southwest part of the current layout of project collection lines and 2008 linear component configuration on an 1881 historical map (Beers 1881).



- Current Project Configuration - Collection Line
- - - 2008 Project Configuration Linear Component
- Previously investigated portion of 2008 project linear component
- Map-documented structure in current APE and not in 2008 APE

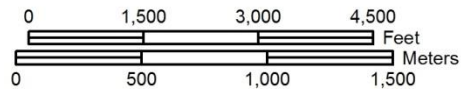
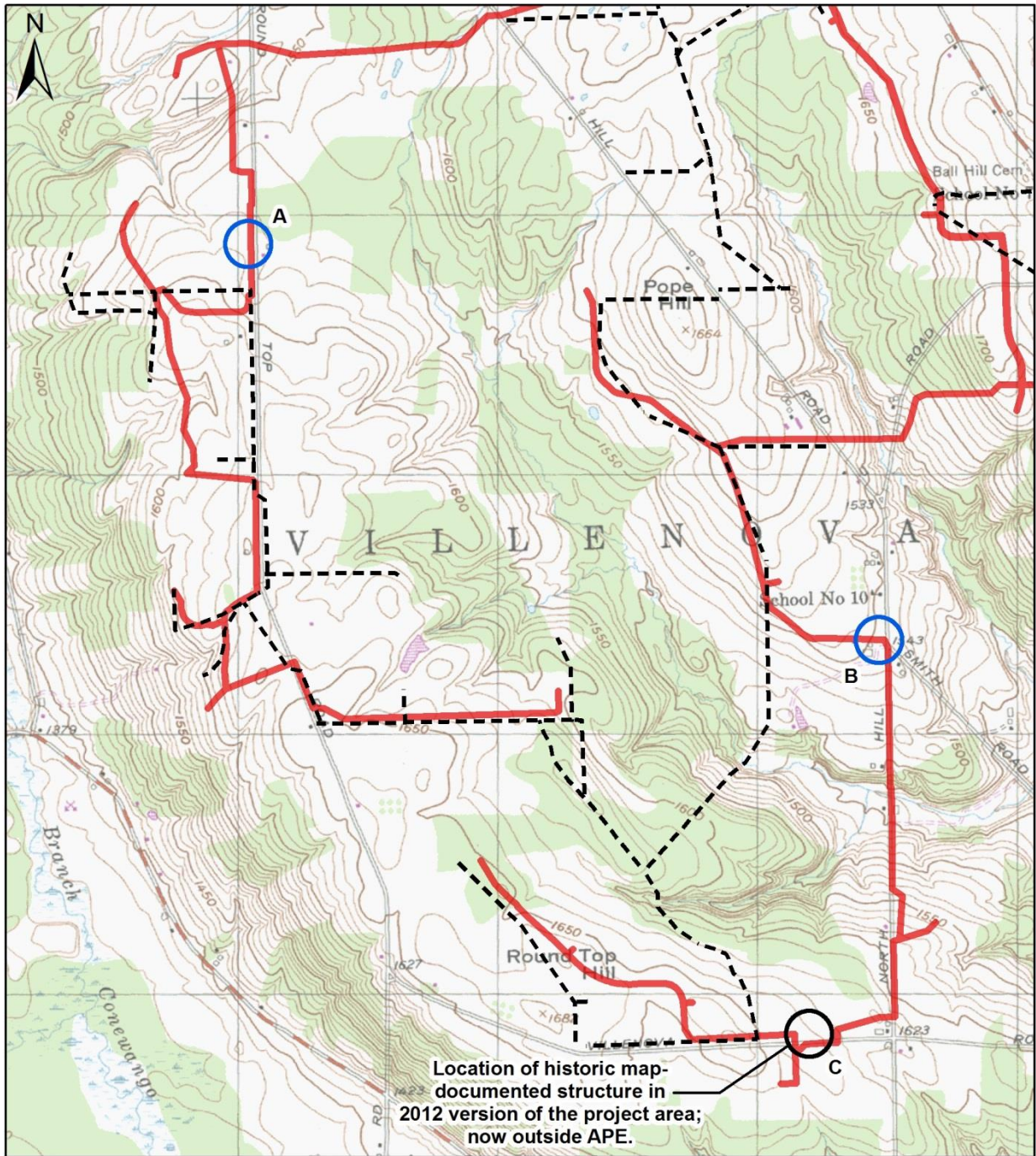


Figure 2.5. The southwest part of the current layout of project collection lines and 2008 linear component configuration on a 1900 USGS map (USGS Cherry Creek quadrangle, 1900).



- Current Project Configuration - Collection Line
- - - 2008 Project Configuration Linear Component
- Previously investigated portion of 2008 project linear component
- Location of map-documented structure in current project area and not in 2008 APE

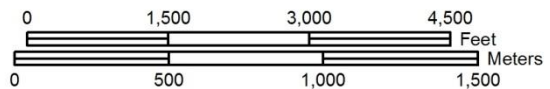


Figure 2.6. MDS locations on a modern USGS quadrangle (USGS 24k Series Topographic: Forestville, NY 1979).

2.2 ENVIRONMENTAL SETTING

This section describes the setting for the three areas investigated for the current addendum; for a description of the remainder of the project area see Hanley et al. 2008b.

Topography. The project area is situated within the Cattaraugus Hills subsection of the Appalachian Uplands (or the Allegheny Plateau), one of the two physiographic provinces located within Chautauqua County (the Erie-Ontario Lake Plain is the other). This uplands province in general, has a rugged topography with steep valley walls and wide ridgetops, where elevations and slope increase rapidly, especially near primary waterways. This province also contains several flat-bottomed valleys with meandering streams (Cressey 1966:33-34; Puglia 1994:3). Elevations generally increase from north to south in this area, encompassing a ridge west of the broad floodplain of Conewango Creek and its tributaries.

All three study areas are on moderately-sloping to nearly-level areas near hill summits (in the parlance of the Environmental Zone model used for the 2008 investigation, they are on uplands near summits and knolls). MDS investigation Area A is on a broad ridge about one mile west-northwest of the summit of Pope Hill; Area B is on the gently sloping southeast flank of Pope Hill, about one mile from its highest point; and Area C is on the very gently sloping eastern side of Round Top Hill, roughly 3,400 ft from its summit. Elevation at Area A is roughly 1,575 ft AMSL; Area B is about 1,547 ft AMSL; and Area C is at roughly 1,640 ft AMSL (see Figure 2.6).

Geology. Bedrock formations in Chautauqua County occur in bands with a general east-west orientation and that “also possess very gentle regional dips that have a south-southeast orientation. The oldest rocks in Chautauqua County are largely the black and gray shales that occur along Lake Erie” (Puglia 1994:3). The county’s bedrock gets progressively younger toward the southeast. Beneath the project area, it comprises Canadaway Group shale, siltstone, and sandstone, which are oriented northeast-southwest and average about 150 ft (46 m) in thickness (Isachsen et al. 1990; Puglia 1994:3). These rocks are overlain by glacial till of the Olean substage and some glacial outwash deposits (Cressey 1966:23-24, 33). The project area is situated between the Lake Warren and Lake Whittlesey proglacial shore lines, and would have been under water during the Lake Whittlesey lake stage (Van Diver 1985:191-193).

Soils. Soils in the project area are classified as part of the Erie-Langford soil association which formed in glacial till and are characterized by very deep soils with a fragipan (Puglia 1994: General Soil Map). Areas A and B each include a single U.S. Department of Agriculture (USDA)-mapped soil unit: Chautauqua silt loam, 3 to 8 percent slopes (CkB) and Langford silt loam, 3 to 8 percent slopes (LnB), respectively (Table 2.3). Two soil units extend across Area C: Chautauqua silt loam, 3 to 8 percent slopes (CkB) and Busti silt loam, 3 to 8 percent slopes (BsB) (Figure 2.7; see Table 2.3).

Drainage. Drainage from Area A is via surface runoff towards small streams roughly 1,300 ft to the northwest and 2,000 ft to the east, respectively. Area B drains via surface runoff towards a small stream about 1,500 ft to the east. Drainage from Area C is also by surface runoff towards small streams 2,000 ft to the north and 3,000 ft to the east. (see Figure 2.6).

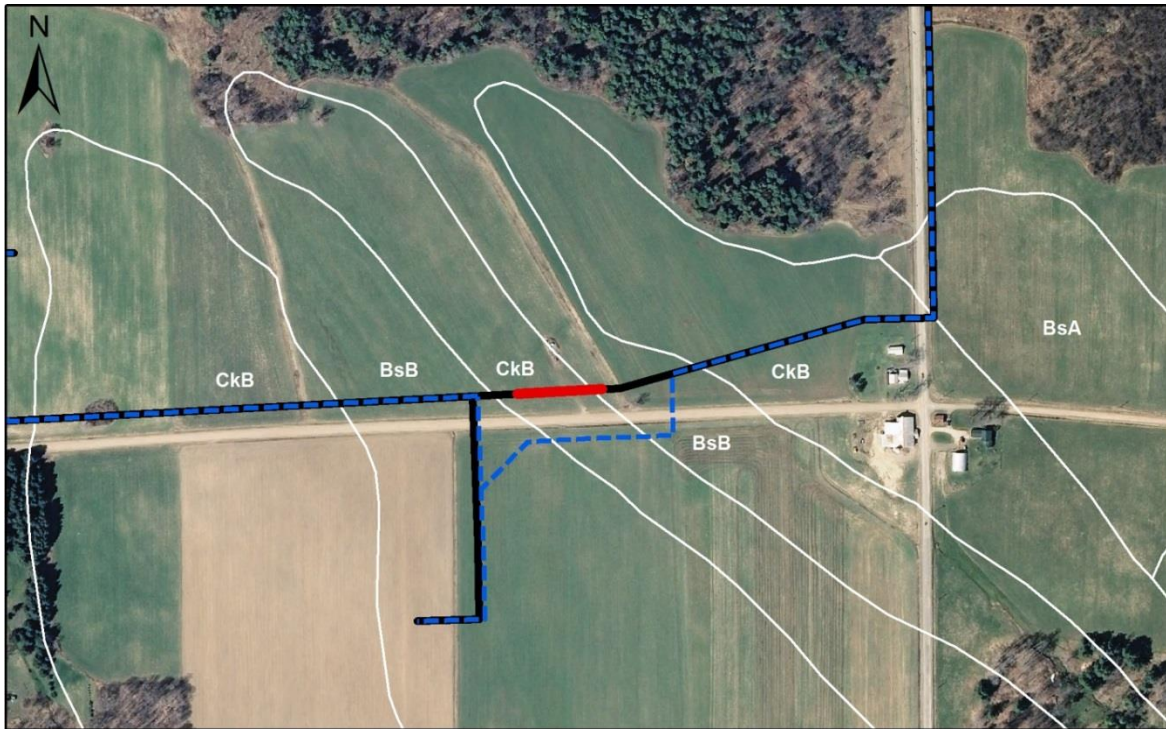
Forest Zone and Vegetation. Chautauqua County contains two primary forest zones: Elm-Red-Maple-Northern Hardwood and Northern Hardwood. The project area is at the boundary between these two zones. The Elm-Red Maple-Northern Hardwood zone is characterized by American elm and red maple, and, to a lesser extent, oak and northern

Table 2.3. Soils in the project area (after Puglia 1994).

| Name | Typical Soil Profile | | | Slope % | Drainage | Land Form |
|----------------------------|----------------------------|------------|-----------|---------|-------------------------|----------------------------------|
| | Soil Horizon Depth in (cm) | Color | Texture | | | |
| Busti silt loam (BsB) | 0-8 | V DK GR BR | SI LO | 3-8 | Somewhat poorly drained | Side slopes |
| | 8-12 | DK GR BR | SI LO | | | |
| | 12-19 | BR | SI LO | | | |
| | 19-27 | BR | G SI LO | | | |
| | 27-72 | DK GR BR | G SI LO | | | |
| Chautauqua silt loam (CkB) | 0-7 | V DK GR BR | SI LO | 3-8 | Moderately well drained | convex hilltops and small knolls |
| | 7-22 | DK YL BR | SI LO | | | |
| | 22-34 | BR | G SI LO | | | |
| | 34-72 | DK YL BR | V G SI LO | | | |
| Langford silt loam (LnB) | 0-9 | DK GR BR | SI LO | 3-8 | Moderately well drained | convex hilltops and side slopes |
| | 9-15 | YL BR | SI LO | | | |
| | 15-21 | YL BR | SI LO | | | |
| | 21-72 | BR | G SI LO | | | |

Color: BR = brown; DK = dark; GR = gray; YL = yellow

Texture: G = gravelly; LO = loam; SI = silt; V = very



Soils in the investigated area

- █ Investigated Area
- 2012 Collection Line APE Centerline
- Current (2013) Collection Line APE Centerline
- CkB Chautauqua silt loam, 3 to 8 percent slopes
- BsB Busti silt loam, 3 to 8 percent slopes



Figure 2.7. USDA-mapped soil units at Study Area C (soils data from NRCS 2012; aerial imagery from NYS GIS Clearinghouse 2008).

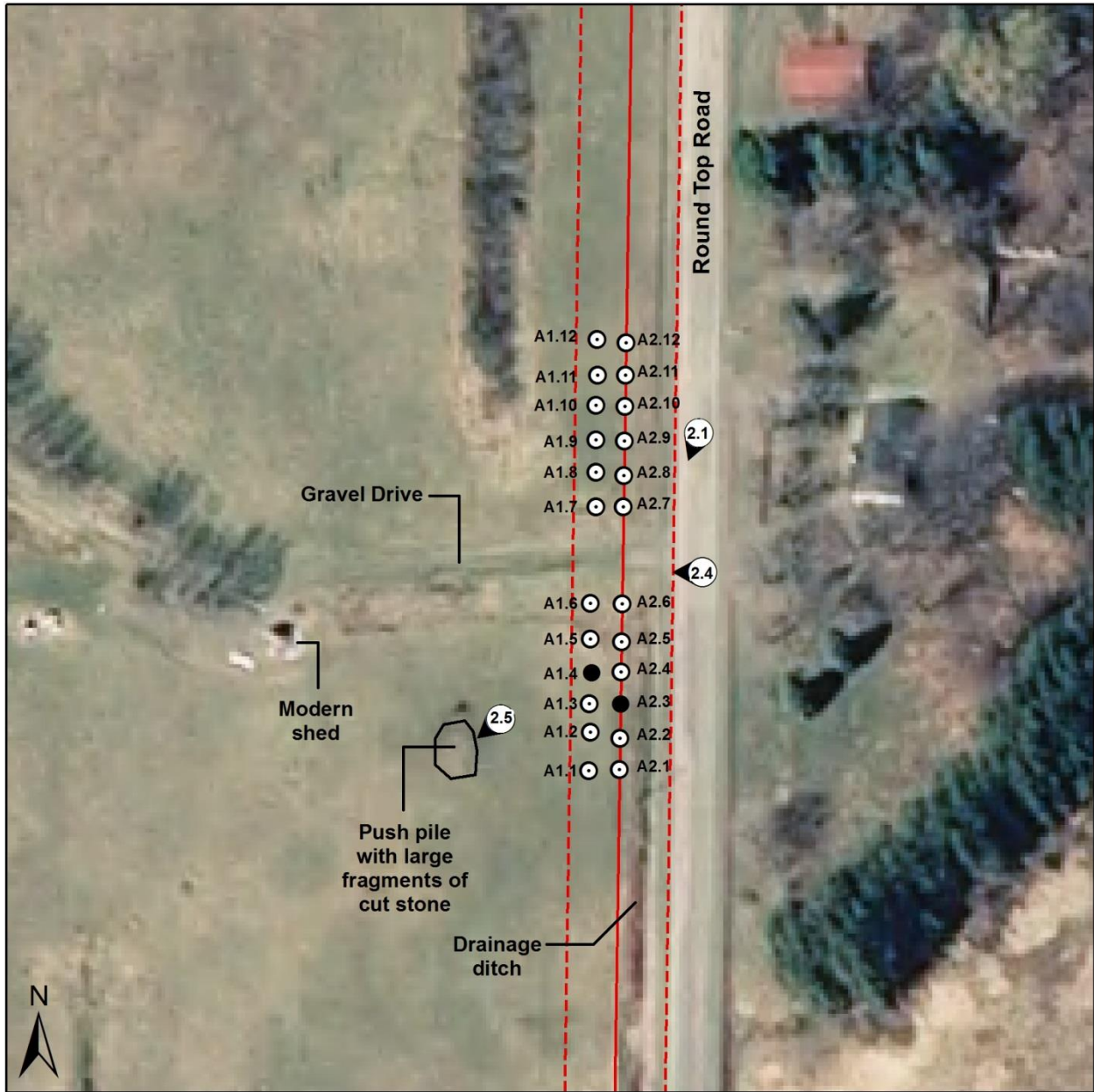
hardwoods. This area has been substantially cleared so that oak is greatly reduced. South-facing slopes support more oaks or an oak-hickory mix (due to more sunlight), while north-facing slopes support more northerly-predominant trees, such as elm, red cedar, and hawthorn as well as a variety of evergreens. The Northern Hardwood zone, which occurs in higher elevations away from the Great Lakes, is not uniform, comprising a variety of species, but dominated by beech, sugar maple, and yellow birch. Though not evenly distributed, various types of evergreens are abundant among the hardwoods in these areas, the most popular of which is hemlock (de Laubenfels 1966:92-95).

Vegetation at Study Area A entirely comprises low to medium-height grasses (Figure 2.8; Photograph 2.1). Area B was covered with mowed grass (Figure 2.9; Photograph 2.2). Area C was located in a planted cornfield; vegetation included a mix of high grasses and mature corn plants (Figure 2.10; Photograph 2.3).

Manmade Features and Alterations. Study Area A extends along the west side of the asphalt-paved Round Top Road, which is flanked by a drainage ditch that lies along the eastern edge of the area of investigation. A gravel drive extends west from the road through the study area and is possibly associated with the MDS shown on the historical maps (Photograph 2.4). There is a push pile with large cut stones roughly 50 ft west of the study area; the pile may also be related to the MDS (Photograph 2.5). A modern utility shed with nearby pallets of stacked vinyl windows is about 75 feet northwest of the push pile. With the exception of the pile, there were no surface indications of an historic structure in or near the area of investigation.

Study Area B extends along the northern edge of a farm complex west of North Hill Road that likely corresponds with the MDS shown on the 1900 map; the farm's residence and the majority of its outbuildings are greater than 50 years old (Photographs 2.6 and 2.7). A farmer's / access road with intermittent gravel pavement extends west from the asphalt-paved North Hill Road parallel to the study area about 10 ft to its north. With the exception of a drainage ditch on the west side of North Hill Road, there were no obvious indications of below ground disturbance at the time of the field investigation (see Photograph 2.2). The 2008 aerial photography of the project area, however, indicates the terrain now occupied by the farmer's road was significantly disturbed at that time. A brief interview with the landowner conducted during the survey revealed the disturbance was related to the installation of a gas well west of the farm. At the landowner's request, topsoil that would have been under a temporary access road used during the construction of the well was removed and later replaced after the well's completion.

Study Area C was centered along an axis about 50 ft north of the unpaved Villanova Road. A single-lane unpaved access road extends northwest from Villanova Road through the study area to a modern brine tank and well about 50 ft further to the north (Photograph 2.8). There were no indications of the MDS shown on the historical maps.



- Shovel Test with Historical Artifacts
- Shovel Test with no Artifacts
- ②.5 Photograph location and angle
- - - Approximate Collection Line APE
- APE Centerline

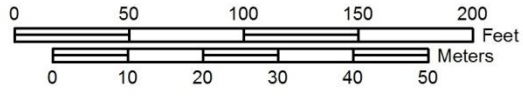
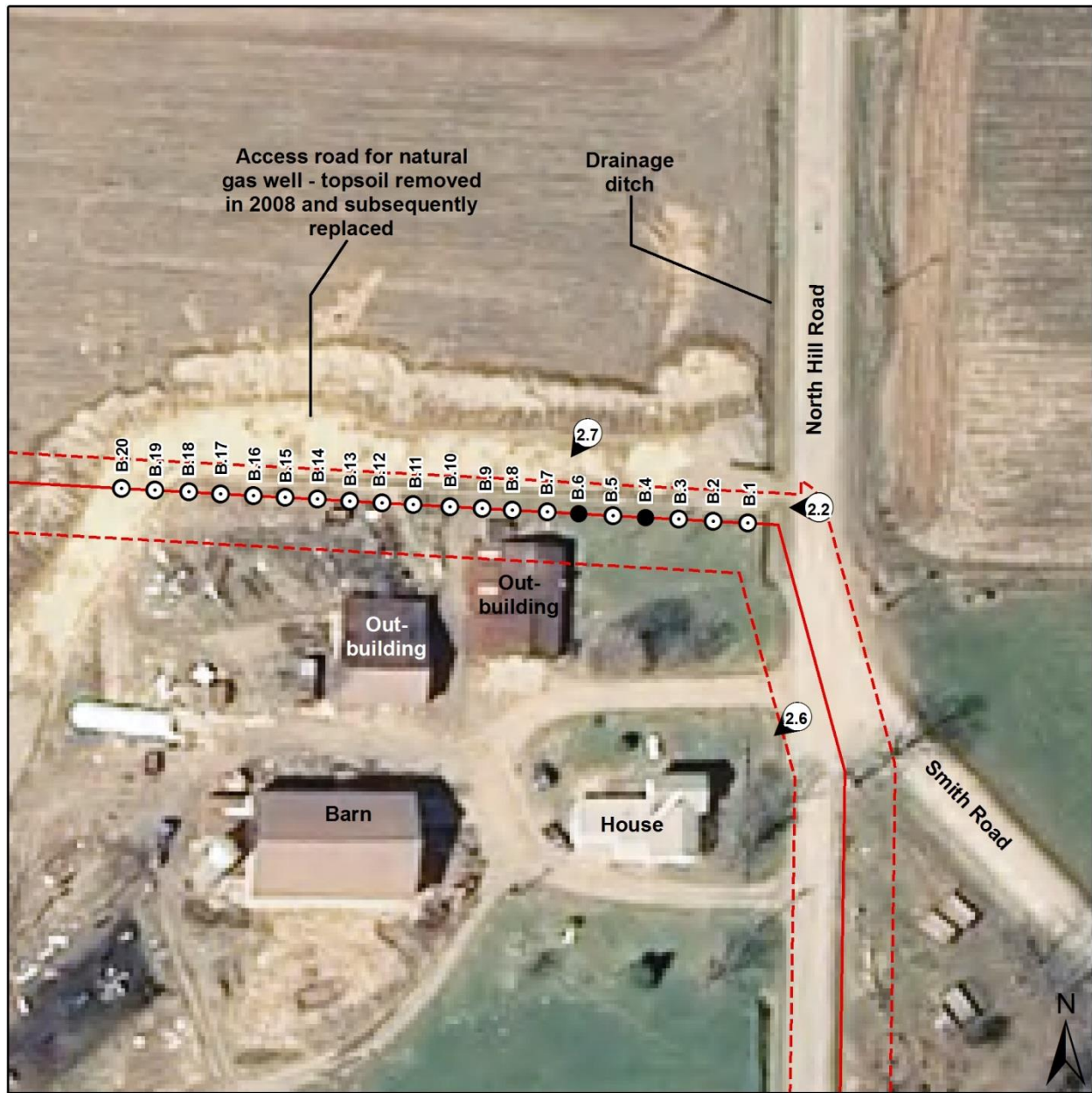


Figure 2.8. Shovel tests, surface features and photograph locations / angles at Study Area A (aerial imagery from NYS GIS Clearinghouse 2008).



Photograph 2.1. Investigation Area A facing southwest from Round Top Road; the presence of a drainage ditch along the west side of the road is indicated by the taller grasses (*Panamerican 2012*).



- Shovel Test with Historical Artifacts
- Shovel Test with no Artifacts
- ②.3 Photograph location and angle
- - - Approximate Collection Line APE
- APE Centerline

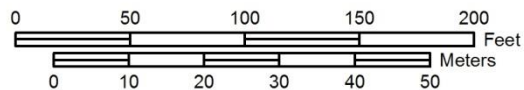
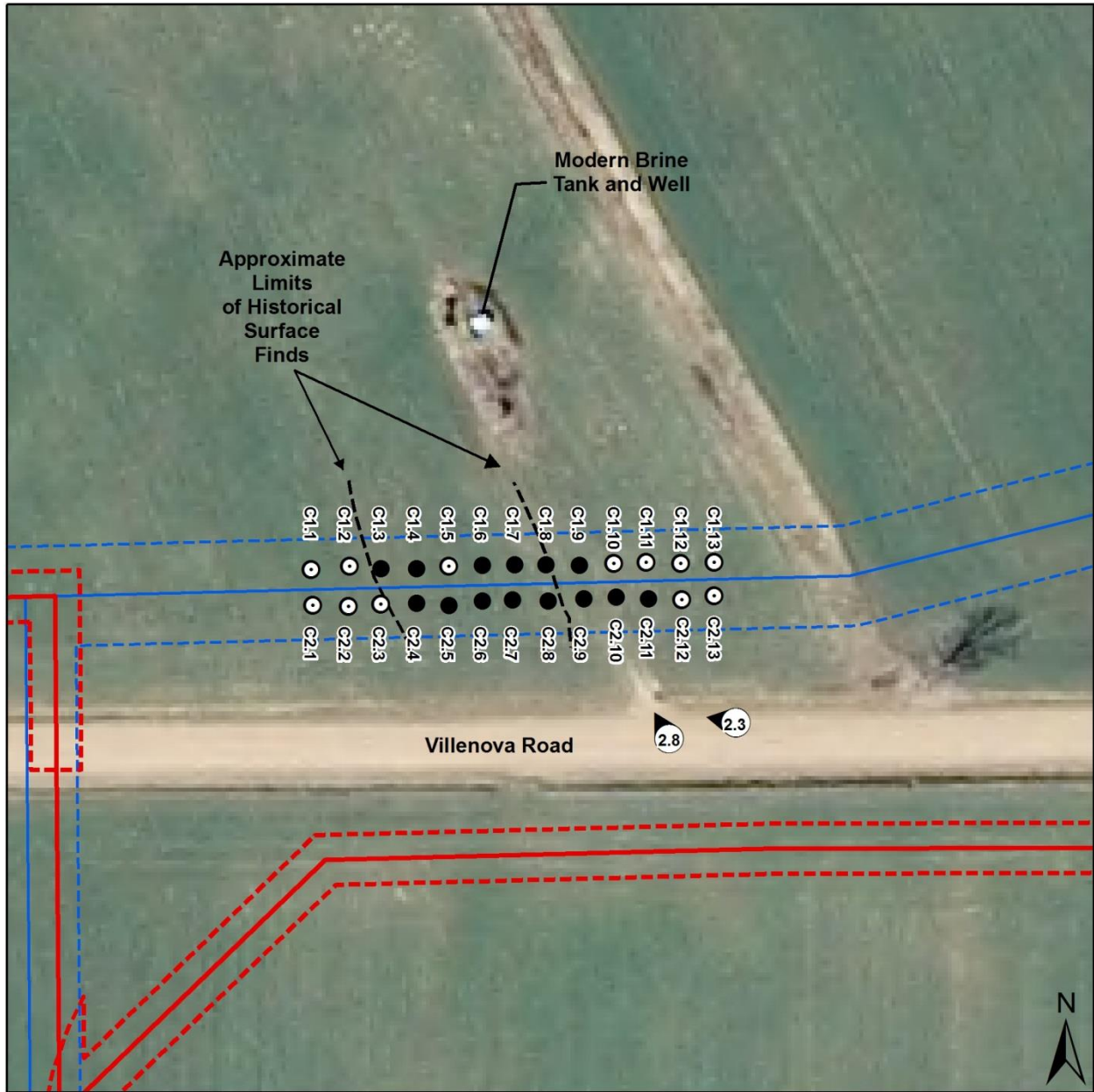


Figure 2.9. Shovel tests, surface features and photograph locations / angles at Study Area B (aerial imagery from NYS GIS Clearinghouse 2008).



Photograph 2.2. Investigation Area B facing west from North Hill Road (*Panamerican 2012*).



- Shovel Test with Historical Artifacts
- Shovel Test with no Artifacts
- 📷 2.2 Photograph location and angle
- Approximate 2012 Collection Line APE
- 2012 APE Centerline
- - - Current Collection Line APE
- Current Collection Line Centerline

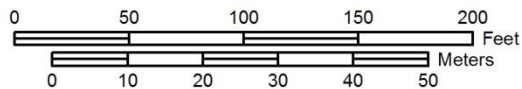


Figure 2.10. Shovel tests, surface features and photograph locations / angles at Study Area C (aerial imagery from NYS GIS Clearinghouse 2008).



Photograph 2.3. Investigation Area C facing northwest from Villenova Road (*Panamerican 2012*).



Photograph 2.4. Investigation Area A facing west from Round Top Road along the gravel road that extends through the study area. The building in the background is modern (fiber-board construction); the push pile with cut stones is at left (*Panamerican 2012*).



Photograph 2.5. Large cut-stone fragments in a push pile near Area A, facing southwest (Panamerican 2012).



Photograph 2.6. Farmhouse at 9133 North Hill Road just south of Study Area B, facing southwest (Panamerican 2012).



Photograph 2.7. Farm outbuildings along the south edge of Study Area B, facing south-southwest (Panamerican 2012).



Photograph 2.8. Study Area C, view northwest from Villanova Road along an unpaved access road that extends to a brine tank and well north of the study area (Panamerican 2012).

2.3 METHODS

2.3.1 Survey Strategy. The archaeological field investigation included pedestrian reconnaissance, photographic documentation, shovel testing, and documentation of fieldwork. The pedestrian survey is used to identify cultural features, soil disturbances, and setting. These observations were used in conjunction with background research results to determine the appropriate field investigation strategy (i.e., shovel test configuration). Photographs were taken to document environmental conditions and pertinent site conditions (e.g., cultural features, disturbances).

Since surface visibility was low at all three study areas, the excavation of shovel test pits (STPs) was employed as the primary method for the investigation. STP layout was consistent with the NYSHPO *Guidelines for Wind Farm Development Cultural Resources Survey Work* (2006), as well as that used during the surveys conducted during the 2008 investigations for the project. STPs were dug at a 5-m (16.4-ft) interval along transects that paralleled the axes of the connection line APEs at each of the three study areas. Two transects of tests were dug at Areas A and C (see Figures 2.8 and 2.10), while a single transect of tests was dug at Area B, due to the presence of the access road disturbance along the north portion of the APE (see Figure 2.9). Shovel tests averaged 40 cm (16 inches) in diameter, were excavated to at least 10 cm (four inches) into culturally sterile soil unless an impasse such as bedrock was encountered or precluded by water seepage. Soil colors were recorded using Munsell® color chart designations and soil descriptions followed pedological clay, silt, and sand categories (i.e., texture). Excavated soils were sieved through ¼-inch hardware screens. Shovel tests were backfilled to original landscape contour upon completion. All information was recorded on shovel test forms, including provenience, stratigraphic context, natural or manmade disturbances, and the presence or absence of cultural materials. Appendix A contains a log of all shovel tested areas.

2.3.2 Laboratory Methods. Artifacts recovered during fieldwork were analyzed under the supervision of the laboratory director. Recovered cultural materials were placed in plastic bags in the field with all provenience information recorded on the bag with a waterproof marker. Procedures elaborated in 36 CFR Part 79 (Curation of Federally-Owned and Administered Archaeological Collections) and NYAC's Standards and Curation of Archaeological Collections in New York regarding the processing of recovered artifacts was followed. General archaeological procedures of cleaning and storage were followed, with provenience information kept with artifacts at all times. At present, the artifacts are stored in a secure, climate-controlled environment at the Panamerican Consultants, Inc., Buffalo Branch Office.

Non-metal items were washed in tap water, allowed to air dry, and separated by major material class (e.g., ceramics, glass, tools) accompanied by their provenience. Soil or other debris was removed from metal objects with brushes and picks. No particular issues of conservation were observed among the collected items. Once the form and type were identified, artifacts were placed in clean plastic bags with identification and provenience information recorded in waterproof ink. For identification of historical materials, published reference guides, including Noël Hume (1969), South (1977), and Miller (2000) were consulted.¹ The artifacts were subdivided into categories, such as a blue transfer-printed pearlware body fragment, a molded aqua bottle glass fragment, or a wire nail. Attributes coded included count, form type (body, neck, rim), complete form if known (bottle, plate, tea cup), colors, particular identifying marks, and particular dates.

¹Different procedures are employed for analyzing and cataloging prehistoric artifacts. However, no prehistoric items were found at any of the three study areas.

2.4 RESULTS OF THE FIELD INVESTIGATION

2.4.1 Area A. The Area A investigation included the excavation of 24 shovel tests along two transects configured to avoid the drainage ditch extending along the eastern edge of the project area (see Figure 2.8). The characteristics of soils in the tests were consistent with those of Chautauqua silt loam, the USDA-mapped soil unit that extends across the study area. Two soil strata were identified in all the STPs. The upper layer was dark grayish brown silt loam that extended to depths between 20 and 38 centimeters (7.9 and 15 inches) and had an average thickness of 29.9 cm (11.8 in). It overlaid a stratum of yellowish brown to dark yellowish brown compacted silt loam, the excavated portion of which varied from 5 to 20 cm (2 to 7.9 in) thick and had a mean vertical extent of 11.6 cm (4.6 in). The Area A STPs were dug to an average total depth of 41.5 cm (16.3 in).

Two of the Area A shovel tests yielded a total of two historical artifacts: a piece of burned whiteware with black transfer print decoration and a fragment of pearlware (the artifact catalog is presented in Appendix B). Both items had maximum dimensions of about 4 cm and were found in the upper soil layer. No historical structures, artifact deposits, or other features were noted anywhere in the project area, nor were any prehistoric remains of any kind found.

2.4.2 Area B. The Study Area B investigation included the excavation of 20 shovel tests dug along the centerline of the project APE (see Figure 2.9). The soils in the tests had characteristics consistent with those of Langford silt loam; two soil strata were identified in all the tests but one (STP B.17—see below). The topsoil was dark grayish brown silt loam that extended to depths between 10 and 40 cm (3.9 and 15.7 in) below the surface and had mean thickness of 24.8 cm (9.8 in). It overlaid a stratum of yellowish brown to dark yellowish brown sandy loam, the excavated portion of which ranged from 10 to 21 cm (3.9 to 8.3 in) in vertical extent and averaged 12.1 cm (4.8 in) in thickness. A disturbance probably associated with the farmer's / access road was noted in STP B.17, which was terminated at a gravel impasse at a depth of 30 cm (12 in); the soil above the impasse was composed of a mix of the two soils identified elsewhere in the study area. The presence of soil from the lower soil stratum within the topsoil was also noted in moderate levels in three other tests (STPs B.5, B.14, and B.16). Gravel was noted in a further two STPs, B.9 and B.18. The Area B tests were dug to an average total depth of 36.5 cm (14.4 in).

A total of two artifacts were found in two of the Area B STPs: a fragment of a clear glass canning jar with an embossed label that partially reads "...A..." from STP B.4 and a piece of flat glass from B.6. Both items were in the topsoil. Exclusive of the in-use farm buildings and equipment along the southern edge of the Area B APE, no historical structures, ruins, artifact deposits, or other features were noted anywhere in the project area, nor were any prehistoric remains of any kind found.

2.4.3 Area C. The investigation at Area C included the excavation of 26 shovel tests along two transects extending along either side of the 2012 APE centerline (see Figure 2.10). Soils identified in the tests had characteristics consistent with those of Chautauqua silt loam. Two soil strata were identified in all the STPs. The topsoil was dark grayish brown silt loam that ranged from 17 to 35 cm (6.7 to 13.8 in) in thickness and had a mean vertical extent of 26.7 cm (10.5 in). It overlaid a layer of dark yellowish brown sandy loam, the excavated portion of which ranged from 5 to 16 cm (2 to 6.3 in) thick and had a mean vertical extent of 11.6 cm (4.6 in). Excavation in one of the Area C shovel tests, STP C1.10, was terminated due to the presence

of a rock impasse before being dug 10 cm into the underlying soil. The tests were dug to an average total depth of 38.3 cm (15.1 in).

A total of 59 historical artifacts were found in 14 of the Area C shovel tests and an additional 27 historical items were found on the surface, primarily between the third and eighth shovel test on each transect (Tables 2.4 and 2.5). A somewhat higher density of artifacts was noted within an area of approximately 6 meters of STP C1.6, in which 11 artifacts were found. The 86 total artifacts comprise 21 architectural items, 64 non-architectural items, and one artifact—an iron bolt—that may belong with either artifact class. No prehistoric remains of any kind were found in Study Area C.

The architectural assemblage from Area C is primarily made up of flat glass ($n = 12$) and brick fragments ($n = 7$). The remainder includes a cut-nail fragment and a piece of a redware drain tile. Interestingly, nearly all the architectural items were found in shovel tests; just three artifacts were found in the surface scatter.

The non-architectural portion of the Area C artifacts is made up nearly entirely of fragments of ceramic tablewares ($n = 27$) and glasswares ($n = 35$). The remaining items are two fragments of coal. Ceramic materials include: ironstone ($n = 9$); pearlware ($n = 4$); whiteware ($n = 9$); stoneware ($n = 2$); buff-bodied earthenware ($n = 1$); redware ($n = 1$); and unidentifiable

Table 2.4. Area C historical artifact distribution.

| Class | Material | Type | STP Total | Surface Total | Total |
|-------------------------------------|-----------------|--|------------------|----------------------|--------------|
| Architectural | Brick | | 6 | 1 | 7 |
| | Glass | Flat glass | 10 | 2 | 12 |
| | Metal | Cut nail | 1 | | 1 |
| | Ceramic | Redware drain tile | 1 | | 1 |
| Non-architectural | Ceramic | Buff earthenware | | 1 | 1 |
| | | Ironstone | 1 | 8 | 9 |
| | | Pearlware | 4 | | 4 |
| | | Redware | 1 | | 1 |
| | | Stoneware | 1 | 1 | 2 |
| | | Whiteware | 6 | 3 | 9 |
| | | Unidentifiable refined white earthenware | | 1 | 1 |
| | Glass | Bottle, aqua | 5 | 1 | 6 |
| | | Bottle, clear | 4 | | 4 |
| | | Jar, aqua | 2 | 1 | 3 |
| | | Tableware, pressed or molded, clear | | 1 | 1 |
| | | Tableware, pedestal foot, clear | | 1 | 1 |
| | | Vessel, cup or preserve jar, clear | | 1 | 1 |
| | | Vessel, probable bottle, aqua | 3 | | 3 |
| Vessel, probable bottle, blue-green | | 1 | | 1 | |
| Vessel, probable bottle, clear | 10 | 5 | 15 | | |
| Other | Coal | 2 | | 2 | |
| Indeterminate | Metal | Bolt | 1 | | 1 |
| Total | | | 59 | 27 | 86 |

Table 2.5. Spatial distribution of Area C artifacts.

| STP on Transect | Transect B1 | Transect B2 | Total |
|-----------------|-------------|-------------|-------|
| 1 (west-most) | - | - | - |
| 2 | - | - | - |
| 3 | 10 | - | 10 |
| 4 | 1 | 3 | 4 |
| 5 | - | 4 | 4 |
| 6 | 10 | 5 | 15 |
| 7 | 3 | 4 | 7 |
| 8 | 4 | 5 | 9 |
| 9 | 1 | 3 | 4 |
| 10 | - | 1 | 1 |
| 11 | - | 4 | 4 |
| 12 | - | - | - |
| 13 (east-most) | - | - | - |

refined white earthenware ($n = 1$). The ceramic assemblage includes artifacts with highly variable characteristics. Items with identifiable vessel form, perceivable decoration, or other notable qualities include: a foot from an ironstone vessel, possibly a pitcher or a basin; a piece of a rim from an annular ironstone vessel (likely a cup or a plate) with alternating wide and thin hand-painted blue bands; a low-fired fragment of redware with a clear alkaline glaze; a piece of a stoneware bottle with a reddish body, brown glaze exterior, and alkaline-glazed interior; a piece of thick (ca. 1-cm) red stoneware (perhaps from a jug or tile) with a brown exterior glaze; a fragment of annular whiteware with blue and brown bands; a rim piece from a whiteware vessel with a fine green band (possibly annular); a fragment of buff earthenware with a white slip on the interior and exterior; and a rim fragment from a refined white earthenware vessel (unidentifiable as to fabric) with possible negative blue transfer print decoration. These items have a wide variety of manufacture dates that range from 1780 (pearlware) to ca. 1930 (ironstone) (Miller 2000; NYSM 2004). However, the date range is consistent with what would be expected if the artifacts were associated with the historical inhabitants of the Area C MDS.

The glassware portion of the Area C assemblage primarily comprises bottle fragments ($n = 10$) and pieces that are likely from bottles ($n = 19$) (although some of these may be from jars). Glass colors for bottle fragments comprise clear ($n = 19$), aqua ($n = 9$), and blue-green ($n = 1$). Pieces with identifiable forms, evidence for manufacture technique, and/or decoration include: a clear medicine bottle fragment with an embossed label that partially reads "...A"; a portion of a neck from a clear glass bottle with a thick mold seam; a circular aqua glass bottle base with an embossed label that reads in part "MAR..."; an aqua glass base of an oval medicine bottle with an embossed "O"-in-square maker's mark; a clear glass fully molded bottle neck with a cork enclosure; and another clear glass neck probably from a liquor or large medicine bottle that appears to be mold-blown. The remainder of the glassware assemblage includes: four jar fragments (comprising a piece of an aqua glass canning jar with an embossed label that partially reads "...BUR..."; an aqua glass fragment of a canning jar lid; an aqua glass fragment of a canning jar with a lightning-type enclosure; and a clear glass rim piece, probably from a jar); a clear glass piece of a vessel with a pedestal; and a fragment of pressed or molded clear glass from the rim of a cup or small dish. Datable glass artifacts are from around the beginning of the twentieth century, and include the bottle base with the embossed "O"-in-square maker's mark, an Owens' mark from 1919-1929 (glassbottlemarks.com); the fully molded bottle neck, which dates to ca. 1900 to 1930 (sha.org); and the mold-blown neck from the liquor or large medicine

bottle, which was manufactured ca. 1890 to 1920 (sha.org). The date distribution is consistent with that of materials that would have been deposited by the historical inhabitants of the nearby MDS.

The spatial distribution of the artifacts from Area C suggests the presence of features, although this is admittedly speculative pending further investigation (see Table 2.5). Specifically, the relatively large number of items found in STPs C1.3 and C1.6, as well as the higher density of surface finds surrounding the latter test may indicate the presence of artifact deposits.

The historical remains found in Study Area C have been temporarily designated Site PCI/Ball Hill-3, pending the assignment of a Unique Site Number by the NYSHPO. An OPRHP site form has been completed and is included in Appendix C.

2.5 CONCLUSIONS AND RECOMMENDATIONS

The current configuration of the Duke Energy Windpark project is approximately 15 acres larger than the APE surveyed during the 2008 investigations. Therefore, per the New York State Historic Preservation Office *Guidelines for Wind Farm Development Cultural Resources Survey Work*, Panamerican recommends the excavation of 240 shovel test pits (or 16 for each acre over 401 acres, if there are further changes to the APE) apportioned among the project area Environmental Zones at a similar ratio as tests dug during the 2008 investigations. Additionally, the project area now extends through the locations of two map-documented structures that were not in the 2008 project configuration: MDS Areas A and B, recommendations for which are summarized below. Results are also summarized for MDS Area C which was investigated for a 2012 interim project area and now lies outside the project APE.

MDS Area A. Two historical artifacts were found in Area A. No historical features were identified and no prehistoric remains of any kind were found. The close interval of shovel tests in the study area, coupled with the low number of artifacts and absence of artifact deposits or other features makes it highly unlikely that potentially National Register-eligible (NRE) archaeological resources are present. Thus, the installation of windpark components in this area will not affect archaeological cultural resources and no further investigations are recommended.

MDS Area B. A total of two historical artifacts were found in Area B. No historical features were identified and no prehistoric remains of any kind were found. The close interval of shovel tests in the study area, together with the low number of artifacts, the absence of artifact deposits or other cultural features, and the fact that a large portion of the project area was disturbed by an earlier earth-moving operation, makes it highly unlikely that potentially NRE archaeological resources are present. Thus, the installation of windpark components in this area will not affect archaeological cultural resources and no further investigations are recommended.

MDS Area C. A total of 86 historical artifacts were found in Study Area C, including 27 surface finds and 59 items from shovel tests. The artifacts were found across the majority of the study area and have dates indicating they are associated with the historical inhabitants of the MDS shown at this location on the 1867, 1881, and 1900 historical maps. The remains have been designated as the PCI/Ball Hill-3 archaeological site. The project area has been redesigned (i.e., it has been moved to the south side of Villanova Road) since the identification of the site and no longer extends through the location of MDS C. Therefore, no further archaeological investigation is recommended at this location for the MDS criterion of the state windfarm guidelines.

3.0 Historic Resources Survey

For this investigation, the visual Area of Potential Effect (APE) is defined as the area from which the proposed undertaking may be visible within a five-mile distance around the outer ring of proposed turbine locations and three miles from the proposed transmission line (Figure 3.1; see Figure 1.1). Within this area both direct and indirect visual effects are assessed that may cause changes in the character or use of cultural properties. Panamerican generated the viewshed analysis map of the five-mile visual APE, which is based solely on topography (NYSHPO 2006; see the architectural history investigation results map in the pocket at the back of the report / Appendix E). Additional screening may be provided by structures and vegetation. The positive visual APE spans northwestern Cattaraugus County and northeastern Chautauqua County. The municipalities, including non-incorporated villages, located partially or entirely in the five-mile visual APE are listed below.

| Cattaraugus | Chautauqua |
|---|--|
| <ul style="list-style-type: none"> • Dayton <i>Village of South Dayton</i> • Leon • Perrysburg | <ul style="list-style-type: none"> • Arkwright • Hanover <i>Village of Forestville</i> <i>Village of Silver Creek</i> • Cherry Creek • Sheridan • Villenova |

3.1 NATIONAL REGISTER CRITERIA

For a building or structure to be considered eligible for listing in the National Register of Historic Places (NRHP), it must be evaluated within its historic context and shown to be significant for one or more of the four Criteria of Evaluation (36 CFR 60) as outlined in *How to Apply the National Register Criteria for Evaluation (Bulletin 15, NPS 2002)*. All structures examined as part of this investigation were identified and evaluated in the field with reference to these criteria:

Criterion A: (Event) Properties that are associated with events that have made a significant contribution to the broad patterns of our history; or

Criterion B: (Person) Properties that are associated with the lives of persons significant in our past; or

Criterion C: (Design/Construction) Properties that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

Criterion D: (Information Potential) Properties that have yielded, or may be likely to yield, information important in prehistory or history (*NPS Bulletin 15*, referencing 36 CFR Part 60).

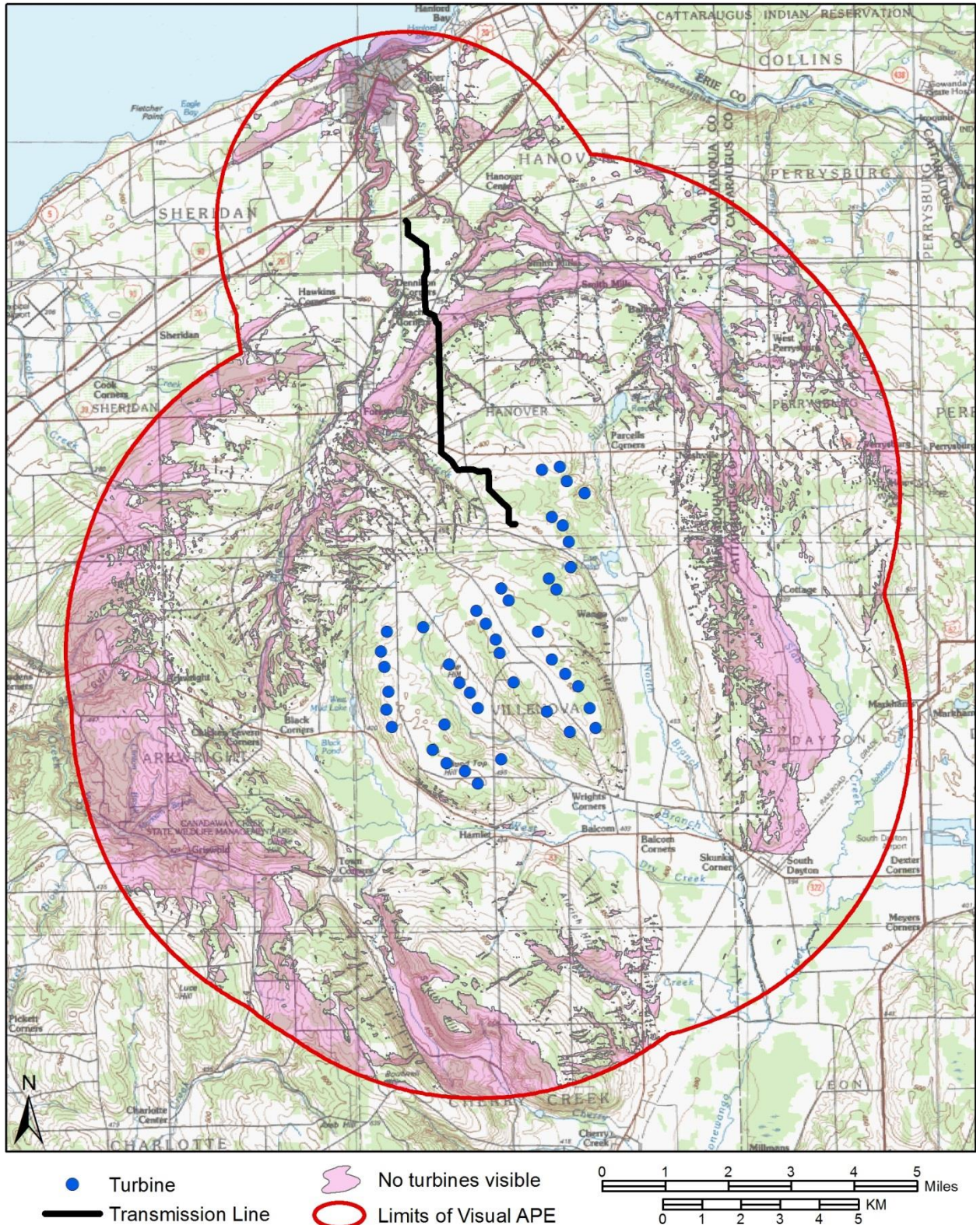


Figure 3.1. Ball Hill 2013 architectural / visual APE (base map sources: USGS 100k Series Topographic: Buffalo, NY 1984; Jamestown, NY 1988; Olean, NY 1986; Silver Creek, NY 1986).

A property is not eligible if it cannot be related to a particular time period or cultural group and thereby lacks any historic context with which to evaluate the importance of the cultural resource. The cultural property (e.g., historic structure or landscape) must also retain the historic integrity of those features necessary to convey its significance. Seven aspects or qualities of integrity recognized by the National Register are location, design, setting, materials, workmanship, feeling, and association (NPS 2002). Actual determinations of eligibility are made by the Field Services Bureau of the NYSHPO.

3.2 ASSESSMENT OF ADVERSE EFFECTS TO HISTORIC PROPERTIES

In general, an undertaking has an effect on an historic property when the undertaking may alter characteristics that may qualify the property for inclusion in the National Register. The assessment of adverse effects to historic properties is spelled out in Section 106 of the National Historic Preservation Act as well as in 36 CFR 800.5.

(1) *Criteria of adverse effect.* An adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. Consideration shall be given to all qualifying characteristics of a historic property, including those that may have been identified subsequent to the original evaluation of the property's eligibility for the National Register. Adverse effects may include reasonably foreseeable effects caused by the undertaking that may occur later in time, be farther removed in distance or be cumulative.

(2) *Examples of adverse effects.* Adverse effects on historic properties include, but are not limited to:

- (i) Physical destruction of or damage to all or part of the property;
- (ii) Alteration of a property, including restoration, rehabilitation, repair, maintenance, stabilization, hazardous material remediation and provision of handicapped access, that is not consistent with the Secretary's Standards for the Treatment of Historic Properties (36 CFR 68) and applicable guidelines;
- (iii) Removal of the property from its historic location;
- (iv) Change of the character of the property's use or of physical features within the property's setting that contribute to its historic significance;
- (v) Introduction of visual, atmospheric or audible elements that diminish the integrity of the property's significant historic features;
- (vi) Neglect of a property which causes its deterioration, except where such neglect and deterioration are recognized qualities of a property of religious and cultural significance to an Indian tribe or Native Hawaiian organization; and
- (vii) Transfer, lease, or sale of property out of Federal ownership or control without adequate and legally enforceable restrictions or conditions to ensure long-term reservation of the property's historic significance [36 CFR 800.5].

Visual Effects. By definition, a visual effect occurs whenever a proposed undertaking will be visible from an historic property. The mere existence of a visual effect does not automatically imply that the effect is adverse. An *adverse* visual effect occurs only when the addition of a new

element to a landscape is found to diminish those aspects of a property's significance and integrity, such as its historic setting, which make it eligible for the National Register.

Adverse visual effects are generally of two types, aesthetic and obstructive. An adverse aesthetic effect transpires when an undertaking's visual effect has a negative impact upon the perceived beauty or artistic values of an historic structure or landscape, thereby diminishing the appreciation or understanding of the resource. Common examples of adverse aesthetic impacts include the diminution or elimination of open space, or the introduction of a visual element that is incompatible, in great contrast, or out of character with the historic resource or its associated setting. An adverse obstructive effect occurs when the proposed undertaking blocks any part of an historic property, or eliminates scenic views historically visible from the property.

3.3 PREVIOUS INVESTIGATIONS

The current Duke Energy Windpark project's five-mile visual APE has significant overlap in area with that of a previously proposed project, Noble Ball Hill Windpark and Transmission Line (OPRHP #08PR01814), which was not constructed. In 2008, Panamerican conducted a reconnaissance-level historic building survey of the five-mile APE for the previously proposed project (Longiaru et al. 2008 [08PR01814]). NYSHPO reviewed the 2008 report recommendations and provided final NRHP evaluations (Bonafide 2008: see Appendix D). A list of all National Register-eligible (NRE) properties in the current Project viewshed previously documented by Panamerican and evaluated by NYSHPO in 2008 is included in this addendum report (see Table 3.1 below). All NRE properties located in the previous 2008 viewshed remain in the 2013 Project viewshed.

In 2009, a historic architectural resources investigation of a five-mile ring study area for the Arkwright Summit Wind Farm in Arkwright, Chautauqua County was submitted to NYSHPO (Sexton and Toner 2009). The Arkwright Summit Wind Farm study area partially overlapped the five-mile visual APE for the Noble Ball Hill Windpark and Transmission project (Longiaru et al. 2008 [08PR01814]). Slight differences between the 2008 and 2009 viewsheds in some locations accounted for duplicate documentation of historic resources by these two studies. Though in some locations, the viewsheds did not overlap. For the current survey, the New York State Preservation Historical Information Network Exchange (SPHINX) and the 2009 report were reviewed to identify any additional NRE properties in the 2013 Project viewshed (see Table 3.1). Several properties have duplicate entries in SPHINX, which are noted in Table 3.1.

3.4 FIVE-MILE APE ARCHITECTURAL FIELD INVESTIGATION: APRIL 2013

The 2013 Project viewshed was compared with the 2008 viewshed to determine if any locations in the overlap area necessitated additional survey for historic resources. The addendum survey work was initially started in September 2012 and completed in April 2013 based on the 2013 Project design. Differing turbine heights and layouts are accounted for in the current Project viewshed. Changes in the viewshed were minimal; the small areas where turbines will be visible as a result of the current project layout that were outside of the 2008 viewshed were field inspected as part of this addendum study. Panamerican utilized spatial data from the 2008 survey to identify NRE properties in the current project and assess visual impacts of the Project (see Section 4.0). The current total area within five miles of the Project turbines is 169.4 sq miles, of which turbines are visible from 128.8 sq miles.

All properties previously listed in the S/NRHP, properties determined eligible prior to the survey, and those identified during the survey were marked using a single Global Positioning System (GPS) point. The single point was taken at the edge of the property generally at the mid-point of the property's street frontage. The GPS data is linked to the street address and/or NYSHPO Unique Site Number (USN; if one currently exists). This GIS data will be submitted with the final report per NYSHPO guidelines.

Local sources, references, and historical maps were consulted to formulate a historic context of the region in order to supplement NRE evaluations (see Longiaru et al. 2008 [08PR01814]). In some cases, additional information about specific buildings or farm complexes families was supplied by the owner of the property or other interested/informed residents of the community. A valuable online reference is the Chautauqua County Historic Structures database (CCHS), *The Architectural Inventory: Nineteenth Century Structures in Chautauqua County* website (Chautauqua County Historian 2009). The CCHS is a community-sponsored, volunteer-operated collection of information on nineteenth-century home sites or other historic structures in Chautauqua County. Common sources of information include public records of the Chautauqua County Clerk, the 1854 Map of Chautauqua County, the 1867 Atlas of Chautauqua County, the 1881 Atlas of Chautauqua County, and published sources. Note, the 2008 survey pre-dated the CHHS online database.

Historic resource data collected during the architectural field investigation is presented in this report in the Annotated List of Properties (Section 6.0), which catalogs all documented properties. Digital photographs of surveyed properties will be submitted on a compact disk (CD) to NYSHPO to supplement project review. Farm complexes were documented as a group with multiple photographs to convey the setting/relationship of farmhouses, outbuildings and the other farm elements. Clusters of buildings (villages/hamlets) are presented together in the annotated list of properties. The architectural survey also involved the identification of any potential historic districts.

3.5 NRE PROPERTIES IN 2008 PROJECT VIEWSHED

A total of 132 individual NRE properties and one NRE historic district, Ewing Park South Dayton Historic District (13 contributing and one non-contributing properties), were identified in the 2008 project viewshed (Longiaru et al. 2008). The majority of which are nineteenth-century residences. The rural agricultural heritage of the region is represented by large farm complexes historically consisting of farm houses, farm buildings, and agricultural fields. Commercial, municipal, religious, and industrial buildings are found in the villages of Forestville, Silver Creek, and South Dayton. Table 3.1 lists NRE resources in the project viewshed. The table includes the original map numbers assigned in the 2008 report to aid in consistency with cross referencing; Map Point Nos. 1 through 132. Note line items in bold and identified by an asterisk indicate properties in the viewshed of the project transmission line. Map Point numbers for properties in the Ewing Park Historic District are identified as SD1 through SD14, as per the 2008 report.

Seven bridges were previously surveyed in the 2008 survey (Map Nos. 2 [in Dayton], 60 [in Forestville], and 85-89 [in Silver Creek]). NYSHPO assigned an "Undetermined" NRHP status for each of these structures (Bonafide 2008). The seven bridges have not been assigned NYSHPO USNs. Further, the bridges have not been logged into SPHINX.

Table 3.1. NRE resources in the 2008 project viewshed.

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|---|--|-------------|---------------------|-------------|--------------|-----------------------------|--|
| 1 | | 12182 Markhams Road | Cattaraugus | Dayton | Pre-2008 | NRE(I) | 00906.000086 | |
| 2 | Erie Railroad Bridge over Cattaraugus Creek | Oaks Road, over Conewango Creek | Cattaraugus | Dayton | 2008 | Un-evaluated | n/a on SPHINX | n/a on SPHINX |
| 3 | Cottage Cemetery | Cottage Road, north side, west of Edwards Corners Road | Cattaraugus | Dayton | 2008 | NRE | 00906.000089 | |
| 4 | | 12654 Cottage Road | Cattaraugus | Dayton | 2008 | NRE | 00906.000090 | |
| 5 | | 27 Cherry Street | Cattaraugus | Dayton | 2008 | NRE | 00906.000091 | |
| 6 | Factory Building | East Railroad Avenue, at south end. | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000048 / 00954.000013 | Prior to 2008 survey- on SPHINX as Not eligible |
| 7 | | 73 East Railroad Avenue | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000049 | |
| 8 | | 62 Main Street | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000005 | |
| 9 | | 203 Maple Street | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000051 | |
| 10 | | 212 /214 Maple Street | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000052 | |
| 11 | Harry Austin Milling Co. | Mill Street, between tracks, east side, north of Pine St | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000053 | |
| 12 | | 227 Oak Street | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000054 | |
| 13 | | 8143 Oaks Road | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000055 | |
| 14 | | 107 Pine Street | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000007 | NRE per 2008 SHPO letter, but Not eligible on SPHINX |
| 15 | | 309 Pine Street | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000057 | |
| 16 | | 312 Pine Street | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000058 | Note three entries on SPHINX (00954.000030 - Not eligible; 00954.000059 - NRE) |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|------------|---|--|--------------------|---|-------------|-------------|-----------------------------|-----------------------|
| 17 | Wilson House | 319 Pine Street | Cattaraugus | South Dayton (V) | 2008 | NRE | 00954.000060 | |
| 18 | | 413 Pine Street | Cattaraugus | South Dayton | 2008 | NRE | 00954.000061 | |
| 19 | Perrysburg Cemetery | NY 39, west of west Perrysburg Road | Cattaraugus | Perrysburg | 2008 | NRE | 00926.000040 | |
| 20 | | 12316 NY 39 | Cattaraugus | Perrysburg | 2008 | NRE | 00926.000041 | |
| *21 | Rugg-town West Perrysburg Cemetery | West Perrysburg Road, west side, north of NY 39 | Cattaraugus | Perrysburg (West Perrysburg [H]) | 2008 | NRE | 00926.000042 | |
| 22 | | 10929 West Perrysburg Road | Cattaraugus | Perrysburg (West Perrysburg [H]) | 2008 | NRE | 00926.000043 | |
| 23 | Weaver Cemetery | Center Road, west side, north of Weaver Road | Chautauqua | Arkwright | 2008 | NRE | n/a on SPHINX | |
| 24 | | 8129 Griswold Road | Chautauqua | Arkwright | 2008 | NRE | 01301.000022 | |
| 25 | Rose Farm | 1936 Rutenbur Road | Chautauqua | Arkwright | 2008 | NRE | 01301.000023 | |
| 26 | | 2667 NY 83 | Chautauqua | Arkwright (Arkwright [H]) | 2008 | NRE | 01301.000024 | |
| 27 | Wooley Farm Complex | 8903 Farrington Hollow Road | Chautauqua | Arkwright (Blacks Corners [H]) | 2008 | NRE | 01301.000025 / 01301.000033 | Two entries on Sphinx |
| 28 | Arkwright Summit Cemetery | Farrington Hollow Road, east side, south of NY 83 | Chautauqua | Arkwright (Blacks Corners [H]) | 2008 | NRE | 01301.000026 / 01301.000034 | Two entries on Sphinx |
| 29 | Maple-Camp Farm/Black Farm | 2083 NY 83 | Chautauqua | Arkwright (Blacks Corners [H]) | 2008 | NRE | 01301.000027 | |
| 30 | | 10917 Alleghany Road | Chautauqua | Hanover | 2008 | NRE | 01314.000060 | |
| *31 | | 12168 Alleghany Road | Chautauqua | Hanover | 2008 | NRE | 01314.000061 | |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|------------|------------------------------|--|-------------------|---------------------|-------------|-------------|-----------------------------|--|
| 32 | Evergreen Cemetery | Angell Street, south side, east of Denison Road | Chautauqua | Hanover | 2008 | NRE | 01314.000062 | |
| 33 | Forestville Depot | Center Street, NE corner Erie Street | Chautauqua | Hanover | 2008 | NRE | 01314.000063 | |
| *34 | Christy Road Cemetery | Christy Road, north side, east of Allegany Road | Chautauqua | Hanover | 2008 | NRE | 01314.000064 | |
| 35 | | Hanover Road, West side, south of Hopper Road | Chautauqua | Hanover | 2008 | NRE | 01314.000065 | |
| 36 | Livemore Homestead | 10079 Hanover Road | Chautauqua | Hanover | 2008 | NRE | 01314.000066 | |
| 37 | Hurlburt Road/Swift Cemetery | Hurlburt Road | Chautauqua | Hanover | 2008 | NRE | 01314.000068 / 01314.000092 | Two entries on SPHINX |
| 38 | | Hurlburt Road, south side, east of Prospect Road | Chautauqua | Hanover | 2008 | NRE | 01314.000067 | |
| 39 | | 469 NY 39 | Chautauqua | Hanover | 2008 | NRE | 01314.000069 | |
| 40 | | 503 NY 39 | Chautauqua | Hanover | 2008 | NRE | 01314.000070 | |
| 41 | | 675 NY 39 | Chautauqua | Hanover | 2008 | NRE | 01314.000071 | |
| 42 | | 1411 NY 39 | Chautauqua | Hanover | 2008 | NRE | 01314.000072 | |
| 43 | | 11776 Bennett State Road | Chautauqua | Hanover | Pre-2008 | NRE(I) | 01314.000056 | previously identified on Old Forestville Road |
| 44 | Forestville Pioneer Cemetery | Bennett State Road, south of 11051 | Chautauqua | Hanover | 2008 | NRE | 01314.000073 / 01314.000090 | previously identified at 11049 Old Forestville Road; two entries on SPHINX |
| 45 | | 11103 Bennett State Road | Chautauqua | Hanover | 2008 | NRE | 01314.000074 / 01314.000091 | previously identified at 11103 Old Forestville Road; two entries on SPHINX |
| *46 | Mt. Carmel Cemetery | Old Main Street | Chautauqua | Hanover | 2008 | NRE | 01314.000075 | |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|--------------------------|--|------------|------------------------------|-------------|--------------|--------------------------------|-----------------------|
| *47 | Glenwood Cemetery | Old Main Street | Chautauqua | Hanover | 2008 | NRE | 01314.000076 | |
| *48 | | 11935 Old Main Street | Chautauqua | Hanover | 2008 | NRE | 01314.000077 | |
| 49 | Prospect Hill Cemetery | Prospect Street, east side, south of Forestville Village | Chautauqua | Hanover | 2008 | NRE | 01314.000078 / 01314.000089 | Two entries on SPHINX |
| 50 | Doty Cemetery | Stebbins Road, South side, west of Old Forestville Road | Chautauqua | Hanover | 2008 | NRE | 01314.000079 | |
| 51 | Ball Valley Farms | 11037 Allegany Road | Chautauqua | Hanover (Balltown [H]) | 2008 | NRE | 01314.000080 | |
| 52 | Balltown Cemetery | Mackinaw Road, north side at Allegany Road | Chautauqua | Hanover (Balltown [H]) | 2008 | NRE | 01314.000081 | |
| 53 | | 12010 Angel Road | Chautauqua | Hanover (Hanover Center [H]) | 2008 | NRE | n/a on SPHINX | n/a on SPHINX |
| 54 | | 12021 Angel Road | Chautauqua | Hanover (Hanover Center [H]) | 2008 | NRE | n/a on SPHINX | n/a on SPHINX |
| 55 | Golden Harvest | 967 Hanover Road | Chautauqua | Hanover (Hanover Center [H]) | 2008 | NRE | 01314.000084 | |
| 56 | | 11991 Hanover Road | Chautauqua | Hanover (Hanover Center [H]) | 2008 | NRE | 01314.000085 | |
| 57 | Nashville Cemetery | Alleghany Road | Chautauqua | Hanover (Nashville [H]) | 2008 | NRE | 01314.000086 | |
| 58 | Church | NY 39, south side, west of Allegany Road | Chautauqua | Hanover (Nashville [H]) | 2008 | NRE | 01314.000087 | |
| 59 | Smith's Mill Cemetery | Hanover Road, West side at York Road | Chautauqua | Hanover (Smith Mill [H]) | 2008 | NRE | 01314.000088 | |
| 60 | Bridge over Walnut Creek | Bradigan Road, south of Water Street | Chautauqua | Hanover (Forestville [V]) | 2008 | Un-evaluated | n/a on SPHINX | n/a on SPHINX |
| 61 | | 13 Cedar Street | Chautauqua | Hanover (Forestville [V]) | 2008 | NRE | 01352.000098 | |
| 62 | | 18 Center Street | Chautauqua | Hanover (Forestville [V]) | 2008 | NRE | 01352.000099 | |
| 63 | | 28 Center Street | Chautauqua | Hanover (Forestville [V]) | 2008 | NRE | 01352.000100 | |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|---|-------------------|------------|---------------------------|-----------------|------------------------|---|---|
| 64 | | 11-15 Main Street | Chautauqua | Hanover (Forestville [V]) | pre-2008 & 2008 | NRE | 01352.000047 | No NRHP DOE prior to 2008 survey |
| 65 | Cyrus D. Angell House | 26 Main Street | Chautauqua | Hanover (Forestville [V]) | pre-2008 & 2008 | NRE | 01352.000055 / 01352.000103 | No NRHP DOE prior to 2008 survey; two entries on SPHINX |
| 66 | | 27 Main Street | Chautauqua | Hanover (Forestville [V]) | pre-2008 & 2008 | NRE | 01352.000056 / 01352.000105 | No NRHP DOE prior to 2008 survey. Two entries on SPHINX |
| 67 | Forestville Free Methodist Church (now residence) | 32 Main Street | Chautauqua | Hanover (Forestville [V]) | 2008 | NRE - 2008 SHPO letter | 01352.000058 | No NRHP DOE prior to 2008 survey. |
| 68 | | 43 Main Street | Chautauqua | Hanover (Forestville [V]) | 2008 | NRE | 01352.000064 / 01352.000065 (NRE)/ 01352.000115 | No NRHP DOE prior to 2008 survey. Three entries on SPHINX w/conflicting DOEs- 1) NRE in 2008 SHPO letter; 2) USN 01352.000115 - Not-eligible; 3) USN 01352.000064 - No Det. |
| 69 | | 2 Pearl Street | Chautauqua | Hanover (Forestville [V]) | 2008 | NRE | 01352.000101 / 01352.000070 | In report & SPHINX, but not in 2008 SHPO letter (Map Point #69 in SHPO letter as 8 Prospect St). Two entries on SPHINX |
| 70 | | 9 Water Street | Chautauqua | Hanover (Forestville [V]) | 2008 | NRE | 01352.000102 | |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|---|-------------------------------------|------------|----------------------------|-----------------|--------------|-----------------|--|
| *71 | Clark Mansion on Lighthouse Point | Beachview Avenue, facing the lake | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000200 | |
| *72 | | 10 Beachview Avenue | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000201 | |
| *73 | | 130 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | Pre-2008 | NRE (I) | 1346.000008 | |
| *74 | | 147 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000202 | |
| *75 | | 151 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | Pre-2008 | NRE (I) | 01346.000129 | |
| *76 | Our Lady of Carmel | 165 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | Pre-2008 | NRE (I) | 01346.000006 | |
| *77 | | 338 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | Pre-2008 & 2008 | NRE | 01346.000037 | Prior to 2008 survey- on SPHINXas Not-eligible |
| *78 | | 350 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | Pre-2008 & 2008 | NRE | 01346.000043 | Prior to 2008 survey- on SPHINXas Not-eligible |
| *79 | | 5 Christy Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000202 | |
| *80 | | 9 Christy Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000204 | |
| *81 | | 4 Dana Drive | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000205 | |
| *82 | | 12370 Hanover Road | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000206 | |
| *83 | | 16 Hanover Road | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000207 | |
| *85 | Skew Arch Bridge | Jackson Street, Over Jackson Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | Un-evaluated | n/a on SPHINX | |
| *86 | Nickel Plate Bridge over Jackson Street | Jackson Street, Over Jackson Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | Un-evaluated | n/a on SPHINX | |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|--------------------------------------|--------------------------------------|------------|----------------------------|-------------|--------------|-----------------|----------|
| *87 | Hanover Bridge | Lake Avenue, between Lake at Jackson | Chautauqua | Hanover (Silver Creek [V]) | 2008 | Un-evaluated | n/a on SPHINX | |
| *88 | Stone Bridge | Lake Avenue, over Lake Avenue | Chautauqua | Hanover (Silver Creek [V]) | 2008 | Un-evaluated | n/a on SPHINX | |
| *89 | Nickel Plate Bridge over Lake Avenue | Lake Avenue, over Lake Avenue | Chautauqua | Hanover (Silver Creek [V]) | 2008 | Un-evaluated | n/a on SPHINX | |
| *90 | | 6/8 Lake Avenue | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000208 | |
| *91 | St. Albans | 38 Lake Avenue | Chautauqua | Hanover (Silver Creek [V]) | Pre-2008 | NRE (I) | 01346.000158 | |
| *92 | | 18 Oak Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000209 | |
| *93 | | 30 Oak Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000210 | |
| *94 | | 117 Old Main Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000211 | |
| *95 | | 151 Old Main Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000212 | |
| *96 | | 155 Old Main Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000227 | |
| *97 | | 1 Oliver Place | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000213 | |
| *98 | | 5 Oliver Place | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000214 | |
| *99 | Swift House | 6 Parkway Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000215 | |
| *100 | | 9 Parkway Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000216 | |
| *101 | | 17 Parkway Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000217 | |
| *102 | Erbin House | 27 Parkway Street | Chautauqua | Hanover (Silver Creek [V]) | Pre-2008 | NRE (I) | 1346.000005 | |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|-------------------------|--|------------|----------------------------|-----------------|-------------|-----------------------------|---|
| *103 | Trinity Lutheran Church | Porter Avenue, northeast side at Adams Porter Avenue | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000218 | Identified on SPHINX: Adams Porter Avenue, northeast side |
| *104 | | Porter Avenue, south of 21 | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000219 | |
| *105 | | 21 Porter Avenue | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000220 | |
| *106 | | 45 Robinson Street | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000221 | |
| *107 | | 16 Rumsey Street | Chautauqua | Hanover (Silver Creek [V]) | Pre-2008 & 2008 | NRE | 01346.000222 / 01346.000181 | Two entries on SPHINX: USN 1346.000181 - No Det. |
| *108 | | 28 Ward Place | Chautauqua | Hanover (Silver Creek [V]) | 2008 | NRE | 01346.000223 | |
| *109 | | 1873 East Middle Road | Chautauqua | Sheridan | | | 01323.000050 | |
| *110 | | 1980 King Road | Chautauqua | Sheridan | 2008 | NRE | 01323.000051 / 01323.000008 | No NRHP DOE prior to 2008 survey. Two entries on SPHINX |
| *111 | | 2023 Stebbins Road | Chautauqua | Sheridan | | | 01323.000052 | GET SPHINX info |
| *112 | | 2248 Stebbins Road | Chautauqua | Sheridan | | | 01323.000053 | GET SPHINX info |
| 113 | Wheeler Cemetery | Hanover Road, East side | Chautauqua | Villanova | 2008 | NRE | 01326.000065 | |
| 115 | | NY 83, South side, west of Hamlet | Chautauqua | Villanova | 2008 | NRE | 01326.000066 | |
| 116 | | 8025 NY 83 | Chautauqua | Villanova | 2008 | NRE | 01326.000067 | |
| 117 | | 8052 NY 83 | Chautauqua | Villanova | 2008 | NRE | n/a on SPHINX | |
| 118 | | 8562 NY 83 | Chautauqua | Villanova | 2008 | NRE | 01326.000068 | |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|--|--|------------|---------------------|-----------------|-------------|-----------------------------|---|
| 119 | | 307 Philips Road | Chautauqua | Villanova | 2008 | NRE | 01326.000070 / 01326.000054 | Two entries on SPHINX with conflicting DOEs: USN 01326.000054 - Not - eligible |
| 120 | Pope Hill Cemetery | Pope Hill Road, south side, east of Round Top Road | Chautauqua | Villanova | 2008 | NRE | 01326.000071 | |
| 121 | Forestville Wesleyan Church/School/Ball Hill Cemetery (church complex) | 9495 Prospect Road | Chautauqua | Villanova | 2008 | NRE | 01326.000069 / 01326.000079 | Two entries on SPHINX - USN 01326.000079 for Ball Hill Cemetery/ Forestville Wesleyan Church Cemetery |
| 122 | | 641 South Dayton Road | Chautauqua | Villanova | 2008 | NRE | 01326.000072 | |
| 123 | | 691 South Dayton Road | Chautauqua | Villanova | 2008 | NRE | 01326.000073 | |
| 124 | Dye Homestead | 558 South Dayton-Hamlet Road | Chautauqua | Villanova | Pre-2008 & 2008 | NRE | 01326.000016 | No NRHP DOE prior to 2008 survey. |
| 125 | Hamlet Cemetery | NY 83, south side, west of Hamlet | Chautauqua | Villanova | 2008 | NRE | 01326.000074 | Address on SPHINX: 558 NY 83, South side, west of Hamlet |
| 126 | | 1141 NY 83 | Chautauqua | Villanova | Pre-2008 & 2008 | NRE | 01326.000041 | Prior to 2008 survey - on SPHINX as Not eligible |
| 127 | Villanova Grange | 1150 NY 83, west side | Chautauqua | Villanova | 2008 | NRE | 01326.000075 | Also identified on SPHINX as South Dayton Grange - USN 01326.000082 |
| 128 | Hamlet School District No. 2 | 8520 School Street | Chautauqua | Villanova | 2008 | NRE | 01326.000078 / 01326.000085 | Two entries on SPHINX |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|--------------------------------|-------------------------------|-------------|---------------------------|-----------------|-------------|--|---|
| 129 | Hamlet United Methodist Church | 1119 South Dayton Road | Chautauqua | Villanova | 2008 | NRE | 01326.000084 / 01326.000038 / 01326.000037 | Prior to 2008 survey - on SPHINX as Not eligible. Three entries on SPHINX for this address |
| 130 | | 1129 South Dayton Road | Chautauqua | Villanova | Pre-2008 & 2008 | NRE | 01326.000039 | Prior to 2008 survey - on SPHINX as Not eligible |
| 131 | IOOF | 1112 South Dayton Road, NY 83 | Chautauqua | Villanova | 2008 | NRE | 01326.000040 / 01326.000083 | Prior to 2008 survey - on SPHINX as Not eligible; Two entries on SPHINX |
| 132 | Villanova Cemetery | Cemetery Road, east side. | Chautauqua | Villanova | 2008 | NRE | 01326.000076 | |
| SD1 | E.B. Crissey & Co. | 30 Maple Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000001 | Contributing property to Potential Ewing Park South Dayton Historic District (EPSD HD) |
| SD2 | Wilson Hale & Co. | 1 Park Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000035 | Contributing property to Potential EPSD HD. |
| SD3 | Wilson Hale & Co./ Post Office | 5 Park Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000036 | Contributing property to Potential EPSD HD. Two entries in SPHINX: previously determined Not eligible - USN 00954.0000034 |
| SD4 | Cattaraugus County Bank | 7 Park Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000037 | Contributing property to Potential EPSD HD. |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|--------------------------------------|--------------------------------------|-------------|---------------------------|-------------|--------------|-----------------|--|
| SD5 | Gypsy Tea Room | 9 Park Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000038 | Contributing property to Potential EPSD HD. Two entries in SPHINX: previously determined Not eligible - USN 00954.000008 |
| SD6 | | 11 Park Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000039 | Contributing property to Potential EPSD HD. Two entries in SPHINX: previously determined Not eligible - USN 00954.000009 |
| SD7 | | 13 Park Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000040 | Contributing property to Potential EPSD HD. Two entries in SPHINX: previously determined Not eligible - USN 00954.000011 |
| SD8 | | 15 Park Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000041 | Contributing property to Potential EPSD HD. |
| SD9 | Village Hall Library | 17 Park Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | Not-eligible | 00954.000042 | Non-contributing property to Potential EPSD HD. |
| SD10 | Ewing Park | Park, Maple, Railroad & Pine streets | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000043 | Contributing property to Potential EPSD HD. |
| SD11 | The Valley House/ South Dayton Hotel | 203 Pine Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000044 | Contributing property to Potential EPSD HD. |
| SD12 | | 205 Pine Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000045 | Contributing property to Potential EPSD HD. |

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | Survey Date | NRHP Status | Unique Site No. | Comments |
|---------|-----------------------|---------------------|-------------|---------------------------|-------------|-------------|-----------------------------|--|
| SD13 | | 207 Pine Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000046 | Contributing property to Potential EPSP HD. |
| SD14 | South Dayton Depot | Railroad Street | Cattaraugus | Dayton (South Dayton [V]) | 2008 | NRE | 00954.000047 | Contributing property to Potential EPSP HD. |
| **133 | | 1 Lodi Street NY 39 | Chautauqua | Hanover (Forestville [V]) | 2009 | NRE | 01352.000112 / 01352.000009 | Two entries on SPHINX *Not included in 2008 report |
| **134 | | 25 Main Street | Chautauqua | Hanover (Forestville [V]) | 2009 | NRE | 01352.000106 | **Not included in 2008 report |
| **135 | Forestville ME Church | 3 Park Street | Chautauqua | Hanover (Forestville [V]) | 2009 | NRE | 01352.000104 | **Not included in 2008 report |
| **136 | | 4 Pearl Street | Chautauqua | Hanover (Forestville [V]) | 2009 | NRE | 01352.000072 | ** Not included in 2008 report |

3.5.1 Potential NRE Silver Creek Historic District, Village of Silver Creek, Town of Hanover, Chautauqua County. The potential NRE Silver Creek Historic District in the Village of Silver Creek, Town of Hanover, Chautauqua County, is partially in the 2013 Project viewshed. Properties in the Silver Creek Historic District did not fall within the 2008 viewshed, thus the district was not included in the 2008 report (Longiaru et al. 2008 [08PR01814]). NYSHPO has determined Silver Creek Historic District, as identified in SPHINX, as a “potential” NRE historic district. This designation is comparable to that of “NRE” when assessing potential impacts to historic resources under Section 106 compliance review. Only one property in the Silver Creek Historic District, a commercial building at 199-201 Central Avenue (NY Route 5), is in the Project viewshed.

Silver Creek Historic District is centered on Main Street (U.S. Route 20) at the historic crossroads of the village. At present, the boundaries of Silver Creek Historic District are not formally delineated. Properties in the district were initially surveyed in the 1990s as part of a cultural resource reconnaissance survey conducted for a New York State Department of Transportation (DOT) project. Street addresses listed in SPHINX are identified by the street address and location information provided in the earlier DOT report, which also included a structure numbering system where all documented buildings were assigned a unique structure number (i.e., “Structure 1,” “Structure 2,” etc.). Based on property location information provided in SPHINX, the approximate boundaries of Silver Creek Historic District include: a roughly three-block section of Main Street (U.S. Route 20) from Central Avenue (NY Route 5) to Robinson Street; the Village Park bound by Park Place, Main Street, and Central Avenue; and an approximately 316-ft section of Central Avenue (NY Route 5) from Main Street to 199-201 Central Avenue. The historic district comprises approximately 39 properties dating from the mid-nineteenth century through the early twentieth century, the majority of which are residential. Other property types include a village park, commercial buildings, religious buildings, a post office, and school.

Formal identification and delineation of Silver Creek Historic District is beyond the scope of the 2013 addendum survey. The current study addresses the portion of Silver Creek Historic District in the 2013 Project viewshed. Contributing and non-contributing properties in Silver Creek Historic District have not been identified. Table 3.2 lists only those properties in the Silver Creek Historic District located within the preliminary historic district boundaries that are identified in SPHINX; it does not include those properties identified as “Not Eligible.” The preliminary district boundaries embrace individual National Register Listed (NRL; Post Office at 37 Main Street [USN 1346.000099]) and NRE (commercial building (Fleet Bank) at northeast corner of Central Avenue and Main Street [USN 1346.000016]; Simeon Howes House [USN 01346.000003] at 47 Main Street; and Silver Creek High School at 60 Main Street [USN 1346.000086]) properties that are not identified in SPHINX as in the Silver Creek Historic District. These four properties are also contributing resources to the Silver Creek Historic District and are presented in Table 3.2.

Table 3.2. Properties in the Silver Creek Historic District (SPHINX April 2013).

| USN | Street Address/Property Name from SPHINX | In 2013 Project Viewshed | Comments |
|--------------|--|--------------------------|---|
| 01346.000096 | SILVER CREEK VILLAGE PARK, INTERSECTION OF CENTRAL AVE & MAIN ST | No | The village green occupies the parcel on the southwest corner of Central Ave and Main St. bordered by Park Place. |
| 01346.000016 | CENTRAL AVE NY 5 STRUCTURE 1 (FLEET BANK) NORTH SIDE; AT MAIN ST; EAST SIDE | No | Individual NRE property. No street address. |
| 01346.000007 | CENTRAL AVE FORMER SCHOOL/APARTMENTS EAST SIDE; AT BABCOCK AVE; NORTH SIDE | No | Incorrect location in SPHINX; former Babcock Avenue School building (now apts) is on Babcock Avenue. No street address. |
| 01346.000120 | 199/201 CENTRAL AVE STRUCTURE 403 (ELLIE'S DELI/RESIDENCE) WEST SIDE; AT HOWARD ST; SOUTH SIDE | Yes | |
| 01346.000082 | MAIN ST NY 5, STRUCTURE 209 (FIRST BAPTIST CHURCH) EAST SIDE; AT BABCOCK AVE; NORTH SIDE | No | Street address is 32 Main Street. |
| 01346.000113 | MAIN ST NY 5 STRUCTURE 319 (CHRISTIAN SCIENCE SOCIETY) WEST SIDE; AT MILL ST; SOUTH SIDE | No | No street address. |
| 01346.000097 | 31 MAIN ST NY 5 STRUCTURE 302 (FIRST UNITED CHURCH) WEST SIDE; AT PARK PLACE; SOUTH SIDE | No | Incorrect address in SPHINX; located at 35 Park Place |
| 01346.000098 | 33 1/2 MAIN ST, 35 1/2 MAIN ST; NY 5 STRUCTURE 303 (GRANNY'S YARN BARN/RESIDENCE) WEST SIDE; AT PARK PLACE; SOUTH SIDE | No | Note: property is on US Route 20 and not NY Route 5. |
| 1346.000099 | 37 MAIN ST NY 5 STRUCTURE 304 (U.S. POST OFFICE) WEST SIDE; AT PARK PLACE; SOUTH SIDE | No | NRL property. |

| USN | Street Address/Property Name from SPHINX | In 2013 Project Viewshed | Comments |
|--------------|--|--------------------------|--|
| 01346.000083 | 38-40 MAIN ST NY 5 STRUCTURE 210 (RESIDENCE) EAST SIDE; AT BABCOCK AVE; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000100 | 39 MAIN ST NY 5 STRUCTURE 305 (R & R ERECTORS INC.) WEST SIDE; AT PARK PLACE; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000101 | 41 MAIN ST NY 5 STRUCTURE 306 (SILVER CREEK OPTICAL) WEST SIDE; AT PARK PLACE; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000084 | 42-44 MAIN ST NY 5 STRUCTURE 211 (RESIDENCE) EAST SIDE; AT BABCOCK AVE; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000102 | 43 MAIN ST NY 5 STRUCTURE 307 (ANDERSON - LEE PUBLIC LIBRARY) WEST SIDE; AT PARK PLACE; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000103 | 45 MAIN ST NY 5 STRUCTURE 308 (RESIDENCE) WEST SIDE; AT PARK PLACE; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000003 | MAIN ST SIMEON HOWES HOUSE NORTH SIDE; AT BABCOCK RD. | No | Individual NRE property. Street address is 47 Main Street. |
| 01346.000085 | 50 MAIN ST NY 5 STRUCTURE 213 (RESIDENCE) EAST SIDE; AT BABCOCK AVE; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000104 | 51 MAIN ST NY 5 STRUCTURE 210 (RESIDENCE) WEST SIDE; AT BABCOCK AVE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000002 | 52 MAIN ST NY 5 MCKEE HOUSE EAST SIDE; AT BABCOCK AVE; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000105 | 55 MAIN ST NY 5 STRUCTURE 311 (RESIDENCE) WEST SIDE; AT BABCOCK AVE; SOUTHWEST | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000106 | 57 MAIN ST NY 5 STRUCTURE 312 (MIXER-BARRESI HOUSE) WEST SIDE; AT MILL ST; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000086 | 60 MAIN ST, 60 US 20 SILVER CREEK HIGH SCHOOL, 1922 EAST SIDE; AT BABCOCK AVE; SOUTH SIDE | No | Individual NRE property. |
| 01346.000107 | 61 MAIN ST NY 5 STRUCTURE 313 (RESIDENCE) WEST SIDE; AT MILL ST; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000108 | 63 MAIN ST NY 5 STRUCTURE 314 (RESIDENCE) WEST SIDE; AT MILL ST; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |

| USN | Street Address/Property Name from SPHINX | In 2013 Project Viewshed | Comments |
|--------------|--|---------------------------------|--|
| 01346.000109 | 63 1/2 MAIN ST NY 5 STRUCTURE 315 (RESIDENCE) WEST SIDE; AT MILL ST; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000087 | 64 MAIN ST NY 5 STRUCTURE 216 (RESIDENCE) EAST SIDE; AT BURGESS ST; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000110 | 65 MAIN ST NY 5 STRUCTURE 316 (RESIDENCE) WEST SIDE; AT MILL ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000088 | 66-68 MAIN ST NY 5 STRUCTURE 217 (RESIDENCE) EAST SIDE; AT BURGESS ST; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000111 | 67 MAIN ST NY 5 STRUCTURE 317 (RESIDENCE) WEST SIDE; AT MILL ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000112 | 69 MAIN ST NY 5 STRUCTURE 318 (RESIDENCE) WEST SIDE; AT MILL ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000089 | 70 MAIN ST NY 5 STRUCTURE 218 (RESIDENCE) EAST SIDE; AT BURGESS ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000090 | 72 MAIN ST NY 5 STRUCTURE 219 (RESIDENCE) EAST SIDE; AT BURGESS ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000091 | 74 MAIN ST NY 5 STRUCTURE 220 (RESIDENCE) EAST SIDE; AT BURGESS ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000114 | 75 MAIN ST NY 5 STRUCTURE 320 (RESIDENCE) WEST SIDE; AT MILL ST; SOUTH SIDE | No | Note: property is on US Route 20 and not NY Route 5. |
| 01346.000092 | 76-78 MAIN ST NY 5 STRUCTURE 221 (RESIDENCE) EAST SIDE; AT ROBINSON ST; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000115 | 79 MAIN ST NY 5 STRUCTURE 321 (RESIDENCE) WEST SIDE; AT MILL ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000093 | 80 MAIN ST NY 5 STRUCTURE 222 (RESIDENCE) EAST SIDE; AT ROBINSON ST; NORTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000094 | 82 MAIN ST NY 5 STRUCTURE 223 (RESIDENCE) EAST SIDE; AT ROBINSON ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |
| 01346.000095 | 84 MAIN ST NY 5 STRUCTURE 224 (RESIDENCE) EAST SIDE; AT ROBINSON ST; SOUTH SIDE | No | Property is on US Route 20 and not NY Route 5. |

3.6 RESULTS OF THE 2013 HISTORIC RESOURCES SURVEY ADDENDUM

The 2013 addendum survey recommends eight individual properties and one historic district (Center Street Historic District in Forestville, Chautauqua County) as National Register Eligible. Table 3.3 presents the list of recommended individual NRE properties. Map point numbers assigned to newly surveyed and recommended properties begins with Map Point No. 137, continuing the sequence from the 2008 report. The addendum survey also recommends consideration of additional contributing properties to the Potential NRE Silver Creek Historic District (Map Point SC1 to SC6 [see Table 3.5 and Section 6.3]). One of the individual properties recommended as a contributing resource to the Silver Creek Historic District—The Geitner Theatre (The Blackline) at 19 Park Place (Map Point SC5)—is also recommended as an individual NRE property.

As recommended, the Center Street Historic District consists of 14 primary buildings (13 contributing resources and one non-contributing resource). Ten outbuildings are also recommended as contributing resources to the proposed historic district. All of the buildings in the proposed district are residential with the exception of St. Rose of Lima Church. The boundaries of the Center Street Historic District include a roughly one-block stretch of Center Street, from the intersection with Pearl Street to Cedar Street. Residential buildings on this section of Center Street represent a cohesive, largely intact example of Forestville's nineteenth-century architectural heritage, which includes examples of Greek Revival, transitional Greek/Italianate, Italianate, Gothic/Italianate, and Queen Anne styles. Early twentieth-century styles include Craftsman. Map point numbers assigned to properties in the Center Street Historic District are as follows: F1 through F14 (Table 3.4). Section 6.2 includes a map of the historic district, representative streetscapes, and an annotated list of properties.

Forestville is a densely settled village nestled along Walnut Creek. Early industry centered on milling and forestry. Tracks for the Erie Railroad were laid in the extreme northeast corner of the village in 1851 (Forestville New York 2008). The main thoroughfare through the village is NY 39/Main Street. Commercial buildings range in age from mid-nineteenth century to late twentieth century. Many of these structures have been compromised and no longer retain their historic integrity. The area south of Main Street contains many of the village's religious and educational facilities, which are intermixed with residential dwellings. These structures range in age from mid-nineteenth century to early twentieth century. The area north of Main Street consists largely of mid-to-late nineteenth-century residential dwellings sited on narrow parcels with tree-lined streets and pedestrian rights-of-way.

Forestville has a rich architectural heritage, which has been partially documented by various cultural resource surveys. Earlier surveys have recommended several individual resources as NRE. However, no historic districts have been formally identified in the village. Due to the limited scope of area of the village included in the present survey, Panamerican recommends future evaluation of historic resources in Forestville with specific consideration to the identification and delineation of boundaries of additional historic districts and/or future expansion of the recommended Center Street Historic District.

Table 3.3. Individual NRE recommendations for 2013 Survey.

| Map Pt. | Resource Name | Street Address | County | Town/Village/Hamlet | 2013 NRHP Recomm. | Comments/Other Info. |
|---------|--|---------------------------|-------------|----------------------------|-------------------|---|
| 137 | Grange Hall No. 829 | 12729 Cottage Road (CR 2) | Cattaraugus | Dayton (Cottage [h]) | Rec. NRE | |
| 138 | Cottage United Methodist Church | 12737 Cottage Road (CR 2) | Cattaraugus | Dayton (Cottage [h]) | Rec. NRE | |
| 139 | First Hose House | 2 Lodi Street / NY 39 | Chautauqua | Hanover (Forestville [V]) | Rec. NRE | USN 01352.000010 No DOE in SPHINX |
| 140 | | 10 Main Street / NY 39 | Chautauqua | Hanover (Forestville [V]) | Rec. NRE | Current Name: Collector's Corner. USN 01352.000046 No DOE in SPHINX |
| 141 | | 14 Main Street / NY 39 | Chautauqua | Hanover (Forestville [V]) | Rec. NRE | Current name: Tavern on the Mall. USN 01352.000048 No DOE in SPHINX |
| 142 | St. Peter's Episcopal Church | Park Street | Chautauqua | Hanover (Forestville [V]) | Rec. NRE | Current name: St. Peter's Christian Church. USN 01352.000002 No DOE in SPHINX |
| 143 | | 7 Third Street | Chautauqua | Hanover (Forestville [V]) | Rec. NRE | |
| *SC5 | The Geitner Theatre (The Blackline) | 19 Park Place | Chautauqua | Hanover (Silver Creek [V]) | Rec. NRE | *Also recommended as a contributing resource to the Silver Creek H.D. |

Table 3.4. Recommended Center Street Historic District, Village of Forestville, Chautauqua County.

| Map Pt. | Resource Name | Street Address | Contributing / Non-contributing Resource | Previously Inventoried | In 2013 Project viewshed |
|---------|-------------------------|----------------|--|-------------------------------------|--------------------------|
| F1 | | 1 Center St | Contributing | Individually NRE – USN 01352.000114 | Yes |
| F2 | | 2 Center St | Contributing | | Yes |
| F3 | | 4 Center St | Contributing | | Yes |
| F4 | | 5 Center St | Non-contributing | | Yes |
| F5 | | 6 Center St | Contributing | | Yes |
| F6 | | 7 Center St | Contributing | | Yes |
| F7 | | 8 Center St | Contributing | | Yes |
| F8 | | 9 Center St | Contributing | | Yes |
| F9 | | 10 Center St | Contributing | | Yes |
| F10 | St. Rose of Lima Church | 11 Center St | Contributing | | |
| F11 | | 12 Center St | Contributing | | Yes |
| F12 | | 16 Center St | Contributing | | Yes |
| F13 | | 18 Center St | Contributing | | Yes |
| F14 | | 18 Pearl St | Contributing | Individually NRE | No |

**Table 3.5. NRE Silver Creek Historic District,
Village of Silver Creek, Chautauqua County.**

| Map Pt. | Resource Name | Street Address | Contributing / Non-contributing Resource | Previously Inventoried | In 2013 Project viewshed |
|----------------|--|-------------------------------|---|-------------------------------|---|
| SC 1 | Silver Creek Historic District | Main Street/ Center Street | n/a | Original survey date unknown | Yes; northern end partially in the H.D. |
| SC 2 | Commercial Building (Unique Hair & Nails) | 7 Park Place | Yes | No | Yes |
| SC 3 | Commercial Building (Stitches) | 9 Park Place | Yes | No | Yes |
| SC 4 | Commercial Building (People Inc.) | 17 Park Place | Yes | No | Yes |
| SC 5 | The Geitner Theatre (The Blackline) | 19 Park Place | Yes. Also recommended as Individual NRE | No | Yes |
| SC 6 | Commercial Building | 25 Park Place | Yes | No | Yes |

4.0 Visual Impacts to Architectural Resources

The study area is a five-mile radius around the proposed project turbines and a three-mile area around its transmission line. The project is located in Chautauqua County. The towns included within the project's five-mile visual APE primarily include portions of Dayton, Perrysburg and a small section of Leon in Cattaraugus County and Arkwright, Charlotte, Cherry Creek, Hanover, Villenova and Sheridan in Chautauqua County (see Section 3.0). The current total area within five miles of the turbines of the Duke Energy Windpark is 169.4 sq miles, of which turbines are visible from 128.8 sq miles.

No structures or buildings will be demolished or physically altered in connection with the construction of the project. Access to the surrounding historical, recreational, and commercial land uses will not be impeded by the project.

The definition of visual impacts has historically been conceptually problematic. The New York State Department of Environmental Conservation (NYSDEC) defines *Visual Impact* as:

...when the mitigating effects of perspective do not reduce the visibility of an object to insignificant levels. Beauty plays no role in this concept. A visual impact may also be considered in the context of contrast. For instance, all other things being equal, a blue object seen against an orange background has greater visual impact than a blue object seen against the same colored blue background. Again, beauty plays no role in this concept [NYSDEC 2000:10-11].

However, the difficulty lies in defining insignificant levels or in determining the levels of contrast that have an effect. Further, at what level of contrast does the effect become adverse? In the overall assessment, the multivariate natures of the NRL and NRE properties in the viewshed can be considered to a limited degree. In many instances, the setting of the property contributes to its eligibility while in other cases, it is less so or not at all important. In this analysis, the level of effect (visibility and contrast) is measured on the dataset as a whole—the National Register-listed and -eligible (and potentially eligible) properties within the viewshed (Table 6.1 [end]).

Based on the provided information, it is apparent that the project will change the visible landscape of the region and create a distinct visual setting. The turbines will be unique and prominent visible features on the landscape in many locations where there are not or ever have been other types of vertical, manmade features. The Federal Aviation Administration (FAA)-required lighting on some of the turbines will also be visible from many locations. While there may be some screening afforded by mature trees, shrubbery and other plantings during the growing season, the prominent features of the turbines will be visible during periods of dormancy.

Another method for illustrating the degree of visual impact is based on categories suggested by the U.S. Forest Service. In this framework, the project viewshed or Zone of Visual Influence (ZVI) is divided into zones of relative visibility based on geographical distance to the nearest turbine: Foreground (0-0.5 mile); Middle ground (0.5-3.0 miles); and Background (3.0 miles to horizon). Of the identified properties, three are situated such that proposed turbines are in the visual foreground (property nos./map points 41, 114, and 121), 36 are at locations where turbines would be in the visual middle ground, and 125 are situated such that proposed turbines are in the visual background (more than 3.0 miles from the structures) (Table 4.1; see Appendix E, the Historical Architectural Investigation Results pocket map).

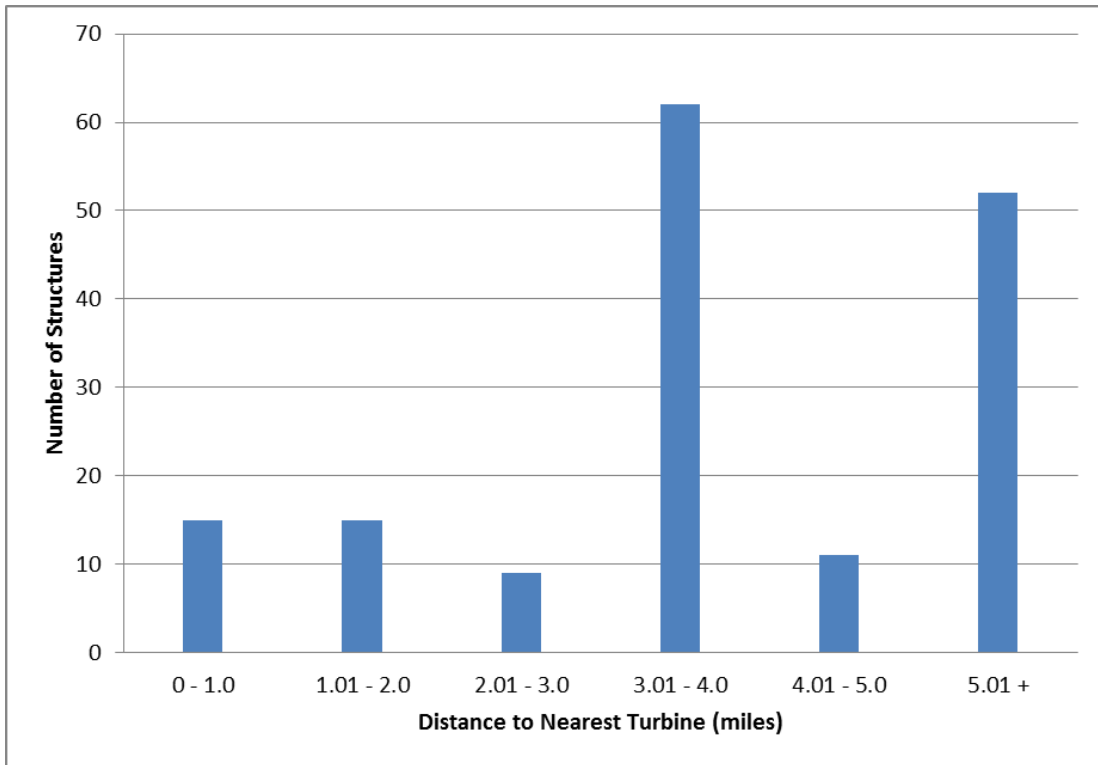


Figure 4.1. Frequency of NRE structures relative to distance to the nearest proposed wind turbine.

Within or immediately adjacent to the proposed windpark area there are electrical distribution lines, telephone poles, water towers, and other vertical, modern visual intrusions. Most of these modern intrusions, to a certain extent, may have compromised some historical settings. Existing modern visual intrusions are relatively small compared to the 133- to 151-meter-tall wind turbines.

The proposed windpark will be prominently sited in the southern portion of Hanover and the northern half of Villenova. The most significant visual impacts will be on open farming land (rural agricultural landscapes), and any of the following that have open/clear views of the wind farm: historic properties on ridges, cemeteries, historic properties within Hanover and Villenova, historic properties along major thoroughfares in the area, and at historic crossroads communities. The impacts to these resources vary with the surrounding topography, distance from the turbines, existing landscaping and vegetation, and surrounding land uses.

The 2008 investigation identified 132 individual NRE structures and one NRE historic district (Ewing Park South Dayton Historic District [13 contributing and 1 non-contributing properties]) in the project visual APE (see Longiaru et al. 2008). The current survey identified an additional eight recommended individual NRE properties, one recommended NRE historic district (Center Street Historic District [13 contributing resources and one non-contributing resource]), the NRE Silver Creek Historic District within the topographic viewshed or ZVI (see Table 4.1). Note, the NRE Silver Creek historic District was not previously in the ZVI. No NRL properties are in the ZVI. The number of turbines that can be seen from all properties documented within the five-mile APE (e.g., NRL, NRE and recommended NRE properties)

spans the full range of values (Table 4.1). The mean number of turbines that are visible from an NRL/NRE property, however, is 20; the average distance from an NRL/NRE property to the nearest turbine is 4 miles (6.4 km).

A review of the SPHINX database indicated that no NRL properties and eight previously-determined NRE properties are in the positive visual five-mile APE. The five-mile visual APE is defined as the area from which the proposed undertaking may be visible (see Section 3.1). Properties within the five-mile APE are ordered according to distance in Appendix A.

Table 4.1. Properties within the visual APE of the Duke Energy Windpark and visual impacts of project turbines.

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|---|-------------------------|-------------|--------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 1 | | 12182 Markhams Road | Cattaraugus | Dayton | | 26 | 4.7 | 24 |
| 2 | Erie Railroad Bridge over Cattaraugus Creek | Oaks Road | Cattaraugus | Dayton | | 26 | 3.9 | 34 |
| 3 | Cottage Cemetery | Cottage Road | Cattaraugus | Dayton | Cottage (h) | 36 | 3.9 | 23 |
| 4 | | 12654 Cottage Road | Cattaraugus | Dayton | Cottage (h) | 36 | 3.5 | 18 |
| 5 | | 27 Cherry Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.3 | 5 |
| 6 | Factory Building | East Railroad Avenue | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.7 | 32 |
| 7 | | 73 East Railroad Avenue | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.6 | 24 |
| 8 | | 62 Main Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.2 | 31 |
| 9 | | 203 Maple Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.4 | 11 |
| 10 | | 212 or 214 Maple Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.3 | 6 |
| 11 | Harry Austin Milling Co. | Mill Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.6 | 20 |
| 12 | | 227 Oak Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.4 | 29 |
| 13 | Sears | 8143 Oaks Road | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.6 | 42 |
| 14 | | 107 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.6 | 25 |
| 15 | | 309 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.4 | 22 |
| 16 | | 312 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.4 | 20 |
| 17 | | 319 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 26 | 3.4 | 23 |

Table 4.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (v) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|------------------------------------|-----------------------------|-------------|------------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 18 | | 413 Pine Street | Cattaraugus | Dayton | South Dayton (v) | 26 | 3.3 | 21 |
| 19 | Perrysburg Cemetery | NY 39 | Cattaraugus | Perrysburg | | 44 | 2.7 | 12 |
| 20 | | 12316 NY 39 | Cattaraugus | Perrysburg | | 44 | 4.5 | 4 |
| 21 | Rugg-town West Perrysburg Cemetery | West Perrysburg Road | Cattaraugus | Perrysburg | West Perrysburg (h) | 44 | 3.6 | 40 |
| 22 | | 10929 West Perrysburg Road | Cattaraugus | Perrysburg | West Perrysburg (h) | 44 | 3.5 | 12 |
| 23 | Weaver Cemetery | Center Road | Chautauqua | Arkwright | | 2 | 3.5 | 42 |
| 24 | | 8129 Griswold Road | Chautauqua | Arkwright | | 6 | 4.3 | 7 |
| 25 | Rose Farm | 1936 Ruttenbur Road | Chautauqua | Arkwright | | 9 | 2.8 | 38 |
| 26 | | 2667 NY 83 | Chautauqua | Arkwright | Arkwright (h) | 2 | 3.3 | 19 |
| 27 | Black Farm Complex | 8903 Farrington Hollow Road | Chautauqua | Arkwright | Blacks Corners (h) | 6 | 1.7 | 40 |
| 28 | Arkwright Summit Cemetery | Farrington Hollow Road | Chautauqua | Arkwright | Blacks Corners (h) | 6 | 1.6 | 38 |
| 29 | Mapl-Camp Farm/Black Farm | 2083 NY 83 | Chautauqua | Arkwright | Blacks Corners (h) | 5 | 1.6 | 37 |
| 30 | | 10917 Alleghany Road | Chautauqua | Hanover | | 42 | 2.6 | 9 |
| 31 | | 12168 Alleghany | Chautauqua | Hanover | | 42 | 5.4 | 7 |
| 32 | Evergreen Cemetery | Angell Street | Chautauqua | Hanover | | 41 | 4.5 | 37 |
| 33 | Forestville Depot | Center Street | Chautauqua | Hanover | | 41 | 3.1 | 11 |
| 34 | Christy Road Cemetery | Christy Road | Chautauqua | Hanover | | 42 | 5.2 | 1 |
| 35 | | Hanover Road | Chautauqua | Hanover | | 42 | 1.1 | 25 |
| 36 | Livemore Family | 10079 Hanover Road | Chautauqua | Hanover | | 44 | 0.7 | 31 |
| 37 | Hurlburt Road Cemetery | Hurlburt Road | Chautauqua | Hanover | | 33 | 1.3 | 4 |
| 38 | | Hurlburt Road | Chautauqua | Hanover | | 33 | 1.3 | 11 |

Table 4.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (v) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|------------------------|--------------------------|-----------------------------|---------------|-------------|----------------------------------|------------------------|--|-----------------------------------|
| 39 | | 469 NY 39 | Chautauqua | Hanover | | 44 | 0.8 | 30 |
| 40 | | 503 NY 39 | Chautauqua | Hanover | | 42 | 0.7 | 22 |
| 41 | | 675 NY 39 | Chautauqua | Hanover | | 41 | 0.2 | 26 |
| 42 | | 1411 NY 39 | Chautauqua | Hanover | | 41 | 2.0 | 26 |
| 43 | | Old Forestville Road | Chautauqua | Hanover | | 41 | 4.8 | 37 |
| 44 | Pioneer Cemetery | 11049? Old Forestville Road | Chautauqua | Hanover | | 41 | 3.2 | 22 |
| 45 | | 11103 Old Forestville Road | Chautauqua | Hanover | | 41 | 3.3 | 23 |
| 46 | Mt. Carmel Cemetery | Old Main Street | Chautauqua | Hanover | | 41 | 5.8 | 1 |
| 47 | Glenwood Cemetery | Old Main Street | Chautauqua | Hanover | | 41 | 5.7 | 39 |
| 48 | | 11935 Old Main Street | Chautauqua | Hanover | | 41 | 5.5 | 39 |
| 49 | Prospect Hill Cemetery | Prospect Street | Chautauqua | Hanover | | 41 | 2.7 | 19 |
| 50 | Doty Cemetery | Stebbins Road | Chautauqua | Hanover | | 41 | 4.7 | 38 |
| 51 | Ball Valley Farms | 11037 Allegany Road | Chautauqua | Hanover | Balltown (h) | 42 | 3.1 | 25 |
| 52 | Balltown Cemetery | Mackinaw Road | Chautauqua | Hanover | Balltown (h) | 42 | 3.1 | 9 |
| 53 | | 12010 Angel Road | Chautauqua | Hanover | Hanover Center (h) | 41 | 4.8 | 38 |
| 54 | | 12021 Angel Road | Chautauqua | Hanover | Hanover Center (h) | 41 | 4.9 | 38 |
| 55 | Golden Harvest | 967 Hanover Road | Chautauqua | Hanover | Hanover Center (h) | 41 | 4.6 | 37 |
| 56 | | 11991 Hanover Road | Chautauqua | Hanover | Hanover Center (h) | 41 | 4.7 | 37 |
| 57 | Nashville Cemetery | Alleghany Road | Chautauqua | Hanover | Nashville (h) | 44 | 1.5 | 13 |
| 58 | Church | NY 39 | Chautauqua | Hanover | Nashville (h) | 44 | 1.5 | 22 |
| 59 | Smith's Mill Cemetery | Hanover Road | Chautauqua | Hanover | Smith's Mill (h) | 42 | 3.7 | 14 |
| 60 | Bridge over Walnut Creek | Bradigan Road | Chautauqua | Hanover | Forestville (v) | 1 | 3.2 | 12 |

Table 4.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|------------------------|-----------------------------------|-----------------------|---------------|-------------|----------------------------------|------------------------|--|-----------------------------------|
| 61 | | 13 Cedar Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.2 | 18 |
| 62 | | 18 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 7 |
| 63 | | 28 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 12 |
| 64 | | 11-15 Main Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 6 |
| 65 | | 26 Main Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.2 | 12 |
| 66 | | 27 Main Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.2 | 13 |
| 67 | Forestville Free Methodist Church | 32 Main Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.4 | 14 |
| 68 | | 43 Main Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.3 | 14 |
| 69 | | 2 Pearl Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 4 |
| 70 | | 9 Water Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.4 | 13 |
| 71 | Clark Mansion on Lighthouse Point | Beachview Avenue | Chautauqua | Hanover | Silver Creek (V) | 41 | 7.3 | 4 |
| 72 | | 10 Beachview Avenue | Chautauqua | Hanover | Silver Creek (V) | 41 | 7.2 | 7 |
| 73 | | 130 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 41 | 7.0 | 8 |
| 74 | | 147 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.9 | 25 |
| 75 | | 151 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.9 | 39 |
| 76 | Our Lady of Carmel | 165 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.8 | 32 |

Table 4.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (v) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|------------------------|----------------------------------|-----------------------|---------------|-------------|----------------------------------|------------------------|--|-----------------------------------|
| 77 | | 338 Central Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.6 | 40 |
| 78 | | 350 Central Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.6 | 40 |
| 79 | | 5 Christy Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.5 | 40 |
| 80 | | 9 Christy Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.5 | 40 |
| 81 | | 4 Dana Drive | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.6 | 17 |
| 82 | | 12370 Hanover Road | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.4 | 40 |
| 83 | | 16 Hanover Road | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.8 | 41 |
| 84 | | Howard Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 7.0 | 20 |
| 85 | Skew Arch | Jackson Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 7.0 | 27 |
| 86 | Railroad Bridge over Jackson | Jackson Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 7.0 | 23 |
| 87 | Bridge over Silver Creek | Lake Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 7.0 | 29 |
| 88 | Stone Bridge | Lake Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 7.0 | 18 |
| 89 | Railroad Bridge over Lake Avenue | Lake Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 7.0 | 36 |
| 90 | | 6/8 Lake Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.9 | 14 |
| 91 | St. Albans | 38 Lake Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.9 | 25 |
| 92 | | 18 Oak Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.7 | 34 |

Table 4.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (v) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|------------------------|-------------------------|-----------------------|---------------|-------------|----------------------------------|------------------------|--|-----------------------------------|
| 93 | | 30 Oak Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.7 | 40 |
| 94 | | 117 Old Main Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.4 | 3 |
| 95 | | 151 Old Main Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.3 | 18 |
| 96 | | 155 Old Main Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.2 | 30 |
| 97 | | 1 Oliver Place | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.7 | 18 |
| 98 | | 5 Oliver Place | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.7 | 14 |
| 99 | Swift House | 6 Parkway Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.8 | 32 |
| 100 | | 9 Parkway Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.8 | 35 |
| 101 | | 17 Parkway Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.8 | 34 |
| 102 | Erbin House | 27 Parkway Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.7 | 30 |
| 103 | Trinity Lutheran Church | Porter Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.9 | 40 |
| 104 | | 19? Porter Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.9 | 40 |
| 105 | | 21 Porter Avenue | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.9 | 40 |
| 106 | | 45 Robinson Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.3 | 1 |
| 107 | | 16 Rumsey Street | Chautauqua | Hanover | Silver Creek (v) | 41 | 7.0 | 15 |
| 108 | | 28 Ward Place | Chautauqua | Hanover | Silver Creek (v) | 41 | 6.5 | 40 |
| 109 | | 1873 East Middle Road | Chautauqua | Sheridan | | 41 | 6.5 | 40 |

Table 4.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (v) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|--|------------------------------|------------|-----------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 110 | | 1980 King Road | Chautauqua | Hanover | | 41 | 4.6 | 36 |
| 111 | | 2023 Stebbins Road | Chautauqua | Sheridan | | 41 | 5.4 | 34 |
| 112 | | 2248 Stebbins Road | Chautauqua | Sheridan | | 41 | 5.7 | 35 |
| 113 | Cemetery | Hanover Road | Chautauqua | Villanova | | 36 | 1.2 | 27 |
| 114 | School No. 10 | 9129 North Hill Road | Chautauqua | Villanova | | 13 | 0.2 | 28 |
| 115 | | NY 83 | Chautauqua | Villanova | | 11 | 0.5 | 3 |
| 116 | | 8025 NY 83 | Chautauqua | Villanova | | 26 | 3.2 | 36 |
| 117 | | 8052 NY 83 | Chautauqua | Villanova | | 26 | 3.1 | 37 |
| 118 | | 8562 NY 83 | Chautauqua | Villanova | | 26 | 1.6 | 35 |
| 119 | | 307 Philips Road | Chautauqua | Villanova | | 26 | 1.7 | 32 |
| 120 | Pope Hill Cemetery | Pope Hill Road | Chautauqua | Villanova | | 17 | 0.6 | 38 |
| 121 | Forestville Wesleyan Church/School/Ball Hill Cem | 9495 Prospect Road | Chautauqua | Villanova | | 21 | 0.3 | 31 |
| 122 | | 641 South Dayton Road | Chautauqua | Villanova | Balcom Corners (h) | 26 | 1.7 | 31 |
| 123 | | 691 South Dayton Road | Chautauqua | Villanova | | 25 | 1.7 | 28 |
| 124 | Dye Homestead | 558 South Dayton-Hamlet Road | Chautauqua | Villanova | Balcom Corners (h) | 26 | 1.7 | 31 |
| 125 | Hamlet Cemetery | NY 83 | Chautauqua | Villanova | Hamlet (h) | 11 | 0.6 | 5 |
| 126 | | 1141 NY 83 | Chautauqua | Villanova | Hamlet (h) | 11 | 0.9 | 14 |
| 127 | Villanova Grange | NY 83 | Chautauqua | Villanova | Hamlet (h) | 11 | 0.8 | 12 |
| 128 | Hamlet School District No. 2 | School Street | Chautauqua | Villanova | Hamlet (h) | 11 | 0.9 | 9 |
| 129 | Hamlet United Methodist Church | 1119 South Dayton Road | Chautauqua | Villanova | Hamlet (h) | 11 | 0.9 | 14 |
| 130 | | 1129 South Dayton Road | Chautauqua | Villanova | Hamlet (h) | 11 | 0.9 | 15 |
| 131 | IIOF | South Dayton Road | Chautauqua | Villanova | Hamlet (h) | 11 | 0.9 | 14 |
| 132 | Villanova Cemetery | Cemetery Road | Chautauqua | Villanova | Wright's Corners (h) | 26 | 1.3 | 23 |

Table 4.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|------------------------|---|---------------------------|---------------|-------------|----------------------------------|------------------------|--|-----------------------------------|
| 133 | | 1 Lodi Street (NY 39) | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 2 |
| 134 | | 25 Main Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.2 | 10 |
| 135 | Forestville Methodist Episcopal Church | 3 Park Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.2 | 1 |
| 136 | | 4 Pearl Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 2 |
| 137 | Grange Hall No. 829 | 12729 Cottage Road (CR 2) | Cattaraugus | Dayton | Cottage (h) | 36 | 3.3 | 1 |
| 138 | Cottage United Methodist Church | 12737 Cottage Road (CR 2) | Cattaraugus | Dayton | Cottage (h) | 36 | 3.3 | 5 |
| 139 | First Hose House | 2 Lodi Street (NY 39) | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 1 |
| 140 | | 10 Main Street (NY 39) | Chautauqua | Hanover | Forestville (V) | 41 | 3.2 | 5 |
| 141 | | 14 Main Street (NY 39) | Chautauqua | Hanover | Forestville (V) | 41 | 3.2 | 5 |
| 142 | St. Peter's Episcopal Church | Park Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.2 | 6 |
| 143 | | 7 Third Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.0 | 1 |
| | Recommended Center Street Historic District | Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 2.9 | 0-9 |
| F1 | | 1 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 2.9 | 3 |
| F2 | | 2 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 4 |
| F3 | | 4 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 4 |
| F4 | | 5 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.0 | 3 |
| F5 | | 6 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 5 |

Table 4.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|--|---------------------------|------------|---------|---------------------------|-----------------|-------------------------------------|----------------------------|
| F6 | | 7 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.0 | 4 |
| F7 | | 8 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 9 |
| F8 | | 9 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.0 | 4 |
| F9 | | 10 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 9 |
| F10 | St. Rose of Lima Church | 11 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 9 |
| F11 | | 12 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.0 | 6 |
| F12 | | 16 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 8 |
| F13 | | 18 Center Street | Chautauqua | Hanover | Forestville (V) | 41 | 3.1 | 7 |
| F14 | | 18 Pearl Street | Chautauqua | Hanover | Forestville (V) | 41 | 2.9 | 1 |
| SC 1 | Silver Creek Historic District | Main Street/Center Street | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.5 | 0-5 |
| SC 2 | Commercial Building (Unique Hair & Nails) | 7 Park Place | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.7 | 2 |
| SC 3 | Commercial Building (Stitches) | 9 Park Place | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.7 | 2 |
| SC 4 | Commercial Building (People Inc.) | 17 Park Place | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.7 | 3 |
| SC 5 | The Geitner Theatre (The Blackline) | 19 Park Place | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.7 | 3 |
| SC 6 | Commercial Building | 25 Park Place | Chautauqua | Hanover | Silver Creek (V) | 41 | 6.7 | 3 |

5.0 Mitigation of Visual Impacts

A total of 136 individual NRE properties and two NRE historic districts were previously identified in the current visual APE in Chautauqua and Cattaraugus county (Longiaru et al. 2008; Sexton and Toner 2009). Panamerican recommends eight properties and two historic districts as NRE in 2013 (see Section 6.0). None of these properties are listed on the National Register. The number of turbines that can be seen from NRE properties spans the full range of values. The average number of turbines that can be seen is 21 with an average distance of 4 miles. While some of these properties are grouped together within villages or hamlets, along roads or in associated complexes such as farmsteads, on the whole, the properties are widely dispersed across the area. As noted in Section 6.0, the impacts to these resources vary with the surrounding topography, distance from the turbines and electrical lines, existing landscaping and vegetation, and surrounding land uses.

Some screening will be afforded by mature trees, shrubs and plantings for at least part of the year. This observation is especially true for buildings/structures in the areas surrounding streams and steep embankments. The topography of some portions of the five-mile visual APE will provide additional screening. Nevertheless, there are visual impacts to the area associated with the construction of the Ball Hill Windpark that will require mitigation.

Duke Energy is obligated to mitigate adverse visual effects to NRE and NRL properties under Section 106 of the National Historic Preservation Act as well as to mitigate significant visual impacts under Article 8 of the New York State Environmental Conservation Law (ECL) and 6NYCRR Part 617 as delineated in the New York State Department of Environmental Conservation's (NYSDEC) *Assessing and Mitigating Visual Impacts* (2000). In the case of the Ball Hill Windpark, both Section 106 and NYSDEC mitigation were triggered by the same occurrence: the inclusion of NRE or potentially NRE properties within the project visual APE. NYSDEC lists specific mitigation strategies, while Section 106 does not; the two are not mutually exclusive, however, and strategies for each can have common characteristics.

The mitigation of visual effects to these properties presents an opportunity for a number of alternative mitigative strategies. The usual mitigative approaches can be applied; however, broader alternative strategies can encourage local community input and assist those communities through the undertaking of "hometown" cultural resource projects that are commonly in need of financial and professional assistance. The mitigative strategies below are grouped into several categories. These categories overlap; and some of the categories include the more traditional mitigative alternatives.

PROJECT CRITERIA

Duke Energy proposes the following working criteria for any proposed "historical mitigation" project or activity. These criteria provide that the subject of any such project should:

1. Be consistent with the guidance of NYSHPO
2. Have historical significance
3. Serve a public historic purpose
4. Be a good investment
5. Be appropriate to the state of preservation of local historical resources

PROFESSIONAL DESIGN AND SITING

NYSDEC considers a properly designed and sited project the best way to mitigate potential impacts. The Duke Energy Ball Hill Windpark is designed to mitigate the visual impact of the turbines where practical. The color of the towers is a non-specular neutral white or off-white so the towers will blend into a white sky. The turbines are laid out in a random, natural pattern so that the flow of the landscape is not interrupted. Federal Aviation Administration (FAA) lighting is not required on every turbine. Permanent access roads are only 16 feet (4.9 meters) wide and temporary access roads are only 35 feet (10.7 meters) wide.

Electrical lines connecting the turbines to each other and the existing substation will be carried on poles ranging from 55.5 to 75 feet (16.9 to 20.4 meters) tall, or placed underground, or installed along existing power line rights-of-way where possible. Since the collection lines are on average approximately 65 feet tall, some screening will be afforded by mature trees, shrubs and plantings for at least part of the year. The overhead line runs through a heavily forested area and over open fields in Hanover. In part, the utility poles will not extend above the natural canopy.

MAINTENANCE

NYSDEC considers the maintenance of buildings/structures and landscapes and the decommissioning of objects or buildings/structures as part of a mitigation strategy. Proper maintenance prevents “eyesores” and is an integral part of Duke Energy’s plan for the Ball Hill Windpark.

Local laws require a decommissioning plan to be put into place to remove obsolete and unused turbines. The plan will include cost estimates for the removal of towers and the reclamation of the areas including concrete foundations, access roads, seeding and re-vegetation and salvage of various materials.

SURVEYS

The completion of various types of surveys is a more traditional form of Section 106 mitigation; nevertheless it can also be used as a type of “offset” as described by NYSDEC. An “offset” is the correction of an existing aesthetic problem identified within a Zone Visual Influence (ZVI) as compensation for project impacts. Elements of these surveys can include:

- GIS mapping of the county’s cultural resources within the affected area
- Complete a detailed architectural survey of Chautauqua County
- Conduct surveys identifying specific architectural styles and types of buildings, structures and landscapes within the counties, towns, villages and hamlets affected by the project
- Listing NRE resources
- Sites/buildings/structures/objects/districts/landscapes that have been identified as NRE, but never listed within the area affected by the project
- Completing formal recordation documents (e.g., Historic American Buildings Survey [HABS], Historic American Engineering Record [HAER], Historic American Landscape

Survey [HALS]) for the power houses/dams as well as sites, buildings, structures, landscapes that have been identified but never completed within the APE.

MONETARY CONTRIBUTIONS

The creation of a pool of funds overseen by a third party is a less traditional, but effective way of offsetting project impacts.

- Establish a monetary fund, with NYSHPO oversight, to initiate an historic landscape preservation program to support the preservation of historic landscapes in New York State. The introduction of such a program would offer technical assistance to municipalities and not-for-profit organizations to increase awareness of historic landscapes in New York State.
- Establish a cemetery maintenance program that can disburse funds to maintain the many small historic cemeteries in the area.
- Provide funds towards the construction of a “Historic Center” for storage and display of historic material. The location can be determined upon consultation with the county and affected towns.
- Donations to libraries in the affected area for purchase of local and Chautauqua County material.
- Create a Historic Property Visual Mitigation Grant Fund for use by the owners of historic structures affected by the project. Funds from grants would be used to purchase onsite screening or make repairs to affected historic structures. The details of oversight, submission protocols, and eligibility will be negotiated with the NYSHPO.

HERITAGE TOURISM

The creation of Heritage Tourism materials has become an important part of municipalities, regions, and states promotional activities. These materials can be easily used by many individuals and widely distributed. Most of the activities listed below fall within the traditional Section 106 mitigation sphere, and all can be used as offset.

- 10-Minute Video Presentation. A video presentation can be used in schools, for presentations to civic groups, and on public access television.
- Brochure. A brochure highlighting historic architecture can be distributed at public libraries, visitor’s centers, etc., within the affected area.
- Posters. Posters can be produced highlighting the area and its history.
- Driving/Walking tours. Tours can be conducted out of the public library, visitor’s centers, etc., within the affected area.
- Exhibit. Exhibits focusing on history and architecture can be set up in libraries, visitor’s centers, town halls, etc., within the affected area.
- Power-Point Presentation. This can be used in schools, for presentations to civic groups within the affected area

EDUCATIONAL ACTIVITIES

Educational activities have a broad appeal and can target a wide age group. Activities for school-age groups can help raise awareness of cultural resources within the community at an early age and engender excitement within the school system. Educational activities of various types are traditional Section 106 mitigation options; however, the creation of a graphic novel is a twist on this traditional use. The items below are also excellent offset activities.

- Grade Appropriate Lesson Plans. Packages can include teacher information, student activities, and possible field trips, long- and short-term class projects centered on the affected area and distributed via Internet.
- Graphic Novel (comic book) about the history of the area.
- Host Public History Day. A special event can be staged in conjunction with schools and chambers of commerce within the affected area

HISTORY ACTIVITIES

Activities related to historic resources are the most traditional of Section 106 mitigation strategies. Nevertheless, they can be useful and an important offset activity.

- Popular Written History of the County. Produce a history highlighting specific county contributions to state and country, addressing the towns, villages and hamlets within the affected area.
- Historic Brochure and/or series of brochures addressing various aspects of the county's, town's, village's and hamlet's history within the affected area.
- Oral History Project.
- Placing Historic Markers.
- Creation of Context/s. Produce historical/architectural histories and contexts specific to the area, particularly a regional farming context.

Local community input is vital to the success of any mitigation strategy. Local historians, town officials, and agencies will be contacted by Duke Energy to begin the process of determining community needs. NYSHPO staff will also play a major role in this process. This investigation of probable community needs is preliminary at best and in no way represents a final accounting of those needs.

6.0 Annotated List of Properties

Eight individual primary buildings (i.e., principal structures) and one recommended historic district (containing 14 primary buildings [13 contributing resources and one non-contributing resource]) were documented for the first time during this architectural survey. Recommended individual NRE properties are presented in the Annotated List of Properties that follows (beginning on page 6-2). Subsection 6.2 presents the recommended Center Street Historic District in Forestville, which includes general photographs of Center Street and a separate Annotated List includes the (beginning on page 6-12). Subsection 6.3 presents additional contributing properties to the potential NRE Silver Creek Historic District (Map Point SC1 to SC6 [see Section 6.3]). One of the individual properties recommended as a contributing resource to the Silver Creek Historic District—The Geitner Theatre (The Blackline) at 19 Park Place (Map Point SC5)—is also recommended as an individual NRE property. Outbuildings associated with farms or residential properties are not included in the total number of surveyed properties.

6.1 RECOMMENDED INDIVIDUAL NRE PROPERTIES

For the purpose of clarity and organization of data, the annotated list is arranged in sequential alpha-numerical order by county, town, village or hamlet, and street address. The table includes three columns: 1) a thumbnail-sized photograph of each resource; 2) name, location, date, alterations, map point number, and 3) description. If applicable, the second column also includes S/NRHP eligibility status.¹ The third column lists relevant Unique Site Numbers (USN) on file in the SPHINX database. Dates are presented as *circa*, based on exterior stylistic details and historic materials. A margin of error of approximately ten years should be assumed when “circa” is applied. Providing an accurate and precise time of construction of barns and farm buildings is usually difficult, especially when limited to a reconnaissance survey. Often, in rural settings, many dates are approximations based on physical evidence and the general historic context rather than on documented historical information.

Locations of recommended NRE properties are keyed by map point on the project map located at end of the report (see Map Point Nos. 137 through 143 and SC5). The Project Map consists of a single fold-out topographic map with the viewshed, turbine locations, locations of NRE buildings/structures, recommended NRE properties, and the boundaries of the five-mile APE.

A compact disk (CD) with digital representation of each property photographed in the annotated list accompanies the final five-mile APE survey report to supplement NYSHPO review. Geographic Information System (GIS) project data will be submitted to the NYSHPO for their agency database (to be submitted after NYSHPO review of the five-mile APE survey report).

¹ DOE = Determination of Eligibility (NRHP); No Det. = No Determination on file; U = Undetermined status; NRE (I) = Individual NRE property on file; NRL = National Register Listed; NHL = National Historic Landmark; SPHINX = State Preservation Historical Information Network Exchange

Table 6.1. Annotated list for recommended NRE properties.




| Cattaraugus County Town: Dayton | | |
|--|---|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 1</p> | <p>Cottage Grange No. 829 12729 Cottage Road (CR 2)</p> <p>Town: Dayton Hamlet: Cottage MCD: 00906 Cattaraugus County Date: ca. 1898</p> <p>Map Point: 137 NRHP Recom.: Eligible</p> | <p>Style: Frame Vernacular Stories: 2 Plan: Rectangular Roof: Front gable Ext. Siding: Clapboard Foundation: Windows: 2/2 DHS</p> <p>Details: A highly intact example of a Frame Vernacular building originally constructed as a Grange Hall. The building is 2 bays wide by four bays deep with a 1-story rear addition.</p> |
|  <p>Photo No. 2</p> | <p>Cottage Grange No. 829 12729 Cottage Road (CR 2)</p> <p>Town: Dayton Hamlet: Cottage MCD: 00906 Cattaraugus County Date: ca. 1898</p> <p>Map Point: 137 NRHP Recom.: Eligible</p> | <p>The main entrance with double-leaf paneled doors and transom is in the right bay of the façade. The second floor has a simple wooden sign. A brick chimney rests on the front center ridge.</p> |
|  <p>Photo No. 3</p> | <p>Cottage Grange No. 829</p> <p>Grange History: The first dues paying Grange in the world was Fredonia No. 1 in neighboring Chautauqua County, which was established in 1868. The first annual meeting of the NY State Grange was held on March 1874 in Albany, with a membership of 164 Granges (Baugnet 2002).</p> | <p>Historical Info: Cottage Grange organized in 1897. The first meeting was held in the building on October 7, 1908. It is the only Grange building built for this purpose in Cattaraugus County. The Grange once served as the focal point of the community (<i>Cattaraugus County Bicentennial History</i> 2008).</p> |

Table 6.1. (cont'd)




| Cattaraugus County Town: Dayton | | |
|--|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 4</p> | <p>Cottage Methodist Church</p> <p>12737 Cottage Road (CR 2)</p> <p>Town: Dayton Hamlet: Cottage MCD: 00906 Cattaraugus County Date: 1846</p> <p>Map Point: 138 NRHP Recom.: Eligible</p> | <p>Style: Italianate Stories: 1 w/ central tower Plan: rectangular Roof: gabled Ext. Siding: clapboard, vinyl Foundation: stone Windows: 4/4 DHS</p> <p>Details: A frame example of an early Italianate inspired rural church in what was the original settlement in Dayton, known as West Dayton.</p> |
|  <p>Photo No. 5</p> | <p>Cottage Methodist Church</p> <p>12737 Cottage Road (CR 2)</p> <p>Town: Dayton Hamlet: Cottage MCD: 00906 Cattaraugus County Date: 1846</p> <p>Map Point: 138 NRHP Recom.: Eligible</p> | <p>The church features an incorporated tall central tower w/entrance, decorative brackets, belfry w/triple arched openings, & Mansard type roof. The entrance has been modified, but still retains its original fanlight and pediment. Windows openings are paired round arched windows with simple wooden surrounds (2 on façade, 3 on sides). A side entrance and gabled shed bay are on the east side. Exterior fabric includes vinyl siding on the façade and clapboard on the sides & rear.</p> |
|  <p>Photo No. 6</p> | <p>Cottage Methodist Church</p> <p>12737 Cottage Road (CR 2)</p> <p>Town: Dayton Hamlet: Cottage MCD: 00906 Cattaraugus County Date: 1846</p> <p>Map Point: 138 NRHP Recom.: Eligible</p> | <p>Historical Info: The first Methodist Church in Dayton known as Cottage Methodist Church was incorporated on Oct. 32, 1845 with a congregation of approx. 60. Church constructed in 1846 at cost of \$2,500 and capacity for 300 persons. A parsonage and 2 acres of land were secured in ca. 1859 (Ellis 1879).</p> |

Table 6.1. (cont'd)



| Cattaraugus County Town: Dayton | | |
|--|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 7</p> | <p>Cottage Methodist Church</p> <p>12737 Cottage Road (CR 2)</p> <p>Town: Dayton Hamlet: Cottage MCD: 00906 Cattaraugus County Date: 1846</p> <p>Map Point: 138 NRHP Recom.: Eligible</p> | <p>South side (rear)</p> |
|  <p>Photo No. 8</p> <p><i>*See Annotated List in Section 6.3</i></p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County Date: 1921</p> <p>Map Point: NRHP Recom.: <ol style="list-style-type: none"> Contributing to Silver Creek Historic District Individual NRE </p> | <p>Style: Early 20th-century Commercial -Neoclassical Revival Stories: 2 Plan: Rectangular Roof: Gable with stepped parapet Ext. Siding: Brick Foundation: Concrete Windows: casement</p> <p>Details: An excellent example of a largely intact (exterior) early 20th-century early "motion picture" theatre inspired by the Neoclassical-inspired stylistic elements.</p> |

Table 6.1. (cont'd)




| Chautauqua County Town: Hanover Village: Forestville | | |
|--|---|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 9</p> | <p>L.J. Pierce House Co. #1 2 Lodi Street Town:</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. 1896</p> <p>Map Point: 139 NRHP Recom.: Eligible</p> | <p>Style: Frame Vernacular Stories: 2 Plan: rectangular Roof: gable Ext. Siding: clapboard Foundation: stone Windows: 1/1 DHS</p> <p>Details: A two-story Frame Vernacular building distinguished by a gabled parapet w/brackets. The original window openings on the 2nd floor façade were enclosed (date unknown), while two original door openings (double and single bay) remain on the first floor façade. No DOE on SPHINX - 01352.000010</p> |
|  <p>Photo No. 10</p> | <p>L.J. Pierce House Co. #1 2 Lodi Street Town:</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. 1896</p> <p>Map Point: 139 NRHP Recom.: Eligible</p> | <p>Window openings on the side elevations are intact, but most of which are boarded. The original bell cote and wet-fire hose tower are gone. Despite noticeable alterations, the building retains sufficient architectural integrity as well as historical association with rural fire protection to merit consideration for NRHP eligibility.</p> |
|  <p>Copy of undated historic photograph</p> | <p>L.J. Pierce House Co. #1 2 Lodi Street Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. 1896</p> <p>Map Point: 139 NRHP Recom.: Eligible</p> | <p>Historical Info:</p> <p>Sign on building: "This building was built in 1896 for the L.J. Pierce Hose Co. # 1, est. 1895." It served as the first hose house in Forestville.</p> <p>Undated historic photograph</p> <p><i>Copy of historic photograph reproduced courtesy of http://www.co.chautauqua.ny.us/departments/clerk/historian/Pages/HistoricalCountyStructures.aspx</i></p> |

Table 6.1. (cont'd)

| Chautauqua County Town: Hanover Village: Forestville | | |
|---|---|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 11</p> | <p>L.J. Pierce House Co. #1</p> <p>2 Lodi Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca.</p> <p>Map Point: 139 NRHP Recom.: Eligible</p> | <p>Northwest side</p> |
|  <p>Photo No. 12</p> | <p>L.J. Pierce House Co. #1</p> <p>2 Lodi Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca.</p> <p>Map Point: 139 NRHP Recom.: Eligible</p> | <p>Northeast side (rear)</p> |
|  <p>Photo No. 13</p> | <p>10 Main Street/ NY 39 (Collectors Corner)</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca.</p> <p>Map Point: 140 NRHP Recom.: Eligible</p> | <p>Style: Frame Vernacular Stories: 2 Plan: rectangular Roof: shed Ext. Siding: vinyl Foundation: original foundation not visible Windows: replacement 1/1 DHS</p> <p>Details: No DOE on SPHINX - USN 01352.000046</p> |

Table 6.1. (cont'd)

| Chautauqua County Town: Hanover Village: Forestville | | |
|---|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 14</p> | <p>10 Main Street/ NY 39 (Collectors Corner)</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca.</p> <p>Map Point: 140 NRHP Recom.: Eligible</p> | <p>The building is a good representative example of late 19th-century commercial building with intact frame storefront elements which include entry doors, pilasters & bulkheads. Presently, it is the only extant wooden storefront on Main Street. The building also features a wide overhanging wooden cornice with paired decorative brackets.</p> |
|  <p>Photo No. 15</p> | <p>Harrison House 14 Main Street/ NY 39 (Tavern on the Mall)</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. early 1880s</p> <p>Map Point: 141 NRHP Recom.: Eligible</p> | <p>Style: Italianate Stories:2 Plan: rectangular Roof: gable Ext. Siding: asbestos shingle Foundation: original foundation not visible due to poured concrete porch foundation Windows: segmental arch openings w/ replacement 1/1 DHS</p> <p>Details:No DOE on SPHINX - USN 01352.000048</p> |
|  <p>Photo No. 16</p> | <p>Harrison House 14 Main Street/ NY 39 (Tavern on the Mall)</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. early 1880s</p> <p>Map Point: 141 NRHP Recom.: Eligible</p> | <p>A 2-story frame commercial building with tiered wrap-around porches, canted corner entrance, segmental arch window openings, and a pedimented parapet with paired round arched windows & decorative cornice brackets. Two main entrances feature fanlight-type transom and sidelights. Left porch bay on north façade is enclosed.</p> |

Table 6.1. (cont'd)




| Chautauqua County Town: Hanover Village: Forestville | | |
|--|---|---|
| Photograph | Property Information | Description |
|  <p>Copy of undated historic photograph</p> | <p>Harrison House 14 Main Street/ NY 39 (Tavern on the Mall)</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. early 1880s</p> <p>Map Point: 141 NRHP Recom.: Eligible</p> | <p>Historical Info:</p> <p>1881 map: lot owned by L. Pierce; no building on lot. Built on site of Morrison House, burned in ca. 1874.</p> |
|  <p>Photo No. 17</p> | <p>Harrison House 14 Main Street/ NY 39 (Tavern on the Mall)</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. early 1880s</p> <p>Map Point: 141 NRHP Recom.: Eligible</p> | <p>In spite of modifications such as replacement porch elements and window sash, 14 Main Street retains sufficient architectural integrity as a largely intact 19th-century Italianate commercial building. Storefronts of neighboring commercial buildings on Main Street have been largely altered.</p> |
|  <p>Photo No. 18</p> | <p>St. Peter's Episcopal Church Park Street, west side</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. 1859</p> <p>Map Point: 142 NRHP Recom.: Eligible</p> <p>*Current name: St. Peter's Christian Church</p> | <p>Style: Carpenter Gothic Stories:1 Plan: rectangular w/ later wing Roof: gable Ext. Siding: metal-board & batten Foundation: concrete Windows: pointed arch - architectural glass</p> <p>Details: A largely intact example of a Carpenter Gothic inspired church. Details include an enclosed entry bay with double-leaf wood doors & pointed arched windows, trefoil above entrance, bell tower, pointed arched windows, and architectural glass.</p> <p>On SHPINX without a NRHP determination: USN 01352.000002</p> |

Table 6.1. (cont'd)





| Chautauqua County Town: Hanover Village: Forestville | | |
|---|---|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 19</p> | <p>St. Peter's Episcopal Church Park Street, west side</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. 1859</p> <p>Map Point: 142 NRHP Recom.: Eligible</p> | <p>Historical Info:</p> <p>The Church was constructed in 1859, mostly by members of the congregation at a cost of \$1,500. The land was purchased from Albert H. and Julia Ann for \$225.00 and at one time was wedge shaped. The land was sold to St. Peter's Church of Forestville, in whose name the title still remains. The church was consecrated on May 30, 1860 (From: http://www.stpetersforestville.org/1473/Our%20History.aspx) As described by a Chautauqua County Historian in 1952:</p> <p>"That simple, dignified chapel which invites attention for its chaste simplicity and early unpretentious architecture is the original, built and dedicated in 1860, and sponsored by the Fredonia Church. The names of the early families on the memorial windows, include the second settler of the Town of Hanover (Thomas 1952).</p> |
|  <p>Photo No. 20</p> | <p>St. Peter's Episcopal Church Park Street, west side</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. 1859</p> <p>Map Point: 142 NRHP Recom.: Eligible</p> | <p>South side of church</p> |

Table 6.1. (cont'd)

| Chautauqua County Town: Hanover Village: Forestville | | |
|---|---|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 21</p> | <p>St. Peter's Episcopal Church Park Street, west side Park Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. 1859</p> <p>Map Point: 142 NRHP Recom.: Eligible</p> | <p>1867 map: Epis. Church 1881 map: Epis. Church</p> <p>Rear (west) side of church</p> |
|  <p>Photo No. 22</p> | <p>St. Peter's Episcopal Church Park Street, west side</p> <p>Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. 1859</p> <p>Map Point: 142 NRHP Recom.: Eligible</p> | <p>Detail of window.</p> |
|  <p>Photo No. 23</p> | <p>7 Third Street Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca.</p> <p>Map Point: 143 NRHP Recom.: Eligible</p> | <p>Style: Italianate Stories: 2 Plan: rectangular w/ 1-story rear wing Roof: gable Ext. Siding: clapboard Foundation: stone Windows: replacement DHS</p> <p>Details: A front-gabled roof subtype of the Italianate style w/ side-hall entrance in right bay.</p> |

Table 6.1. (cont'd)

| Chautauqua County Town: Hanover Village: Forestville | | |
|--|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 24</p> | 7 Third Street Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. Map Point: 143 NRHP Recom.: Eligible | Details include entrance with segmental arch door enframement, transom, ¾ sidelights, segmental arched windows with hooded window crowns, and polygonal bay. Alterations include replacement sash and new entrance/side porch. A detached single-bay, frame garage is located at the end of the driveway. |
|  <p>Photo No. 25</p> | 7 Third Street Town: Hanover Village: Forestville MCD: 01352 Chautauqua County Date: ca. Map Point: 143 NRHP Recom.: Eligible | A largely intact, good representative example of an Italianate residential building in Forestville. |

6.2 RECOMMENDED CENTER STREET HISTORIC DISTRICT

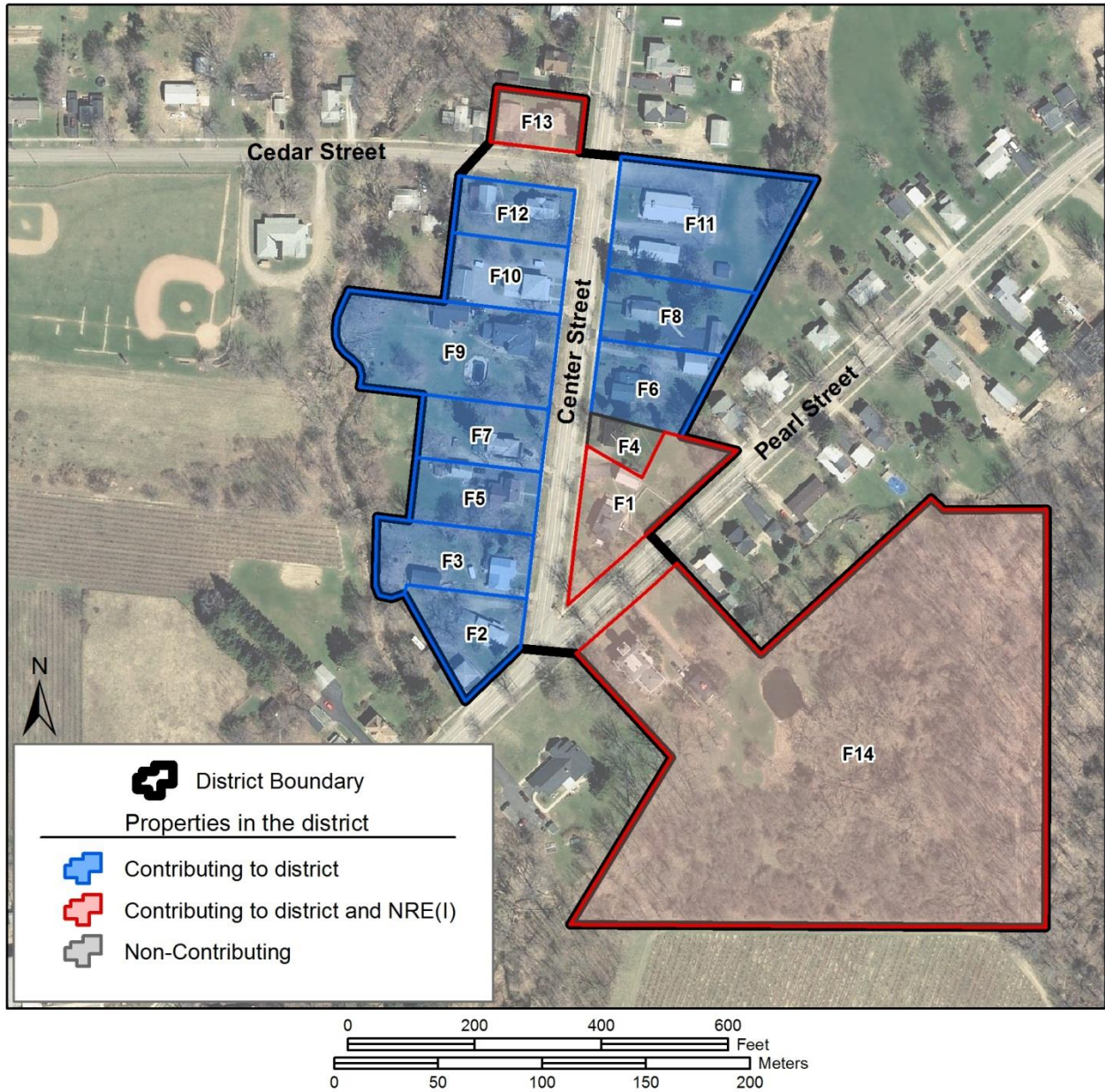


Figure 6.1. Plan of the Recommended NRE Center Street Historic District, Forestville (Panamerican 2013).

**Representative Streetscapes of the Recommended NRE Center Street Historic District,
Forestville, Chautauqua County.**



Photograph 6.1. Intersection of Center and Pearl streets with 1 Center Street at left and 21 Pearl Street at right, facing northeast (*Panamerican 2012*).



Photograph 6.2. Center Street from Pearl Street, with 1 Center Street at right and 2 Center Street at left, facing north (*Panamerican 2012*).



Photograph 6.3. Center Street from 7 Center Street with 8 Center Street and 6 Center Street at right, facing south (*Panamerican 2012*).



Photograph 6.4. Center Street from 7 Center Street with 9 Center Street at right and 10 Center Street at left, facing north (*Panamerican 2012*).



Photograph 6.5. Center Street from St. Rose of Lima Church with 12 and 10 Center Street at right, facing south (*Panamerican 2012*).



Photograph 6.6. The east side of Center Street from Cedar Street showing St. Rose of Lima Church and 9 Center Street, facing southeast (*Panamerican 2012*).

Table 6.2. Annotated list of properties in the Recommended NRE Center Street Historic District, Forestville, Chautauq County.

| Village of Forestville, Town of Hanover, Chautauq County | | |
|---|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 26</p> | <p>Sherman House 1 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1861</p> <p>Map Point: F1 NRHP Status: NRE (I) NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Style: Italianate Stories: 2 Plan: Irregular Roof: Hip w/ cupola Ext. Siding: Clapboard Foundation: stone Windows: 4/4 DHS</p> <p>Details:</p> |
|  <p>Photo No. 27</p> | <p>Sherman House 1 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1861</p> <p>Map Point: F1 NRHP Status: NRE (I) NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Historical Info:</p> <p>1867 map: D. Blanding, 1881 map: D. Sherman. Note, present footprint of the house varies significantly from that shown in either atlas. Sign on front of house "ca. 1861."</p> |
|  <p>Photo No. 28</p> | <p>Sherman House 1 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F1 NRHP Status: NRE (I) NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|--|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 29</p> | <p>Sherman House Outbuilding 1 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County</p> <p>Map Point: F1 NRHP Recom.: Outbuilding -Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Top: View of outbuilding from Pearl Street.</p> <p>Bottom: View of outbuilding from Center Street</p> |
|  <p>Photo No. 30</p> | <p>Sherman House Outbuilding 1 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County</p> <p>Map Point: F1 NRHP Recom.: Outbuilding -Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Top: View of outbuilding from Pearl Street.</p> <p>Bottom: View of outbuilding from Center Street</p> |
|  <p>Photo No.31</p> | <p>2 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.1840</p> <p>Map Point: F2 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Style: Italianate Stories: 2 Plan: rectangular main block w/ rear wing Roof: hip Ext. Siding: vinyl Foundation: stone Windows: 2/2 DHS</p> <p>Details: An example of a simple hipped-roof subtype of a transitional Italianate style building with a Greek Revival-type side hall entrance with pedimented enframement, decorative crowns and paired cornice brackets.</p> |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|---|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 32</p> | <p>2 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F2 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Other features include partial side porch, polygonal bay, rear 1-story gabled wing and attached single bay garage.</p> <p>Historical Info:</p> <p>1854 map: Unidentified 1867 map: L. Morrison 1881 map: Baptist Parsonage</p> |
|  <p>Photo No. 33</p> | <p>4 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.1840</p> <p>Map Point: F3 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Style: Greek Revival Stories: 1.5 Plan: Gable front & wing Roof: gable Ext. Siding: modern log Foundation: stone Windows: 1/1 DHS</p> <p>Details: An example of a gable front and wing subtype of the Greek Revival style with original doorway enframing in the left bay of the front gable & cornice returns.</p> |
|  <p>Photo No. 34</p> | <p>4 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1840</p> <p>Map Point: F3 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Modifications include the addition of an open full-width porch, alterations to the side wing & modern exterior log-type siding.</p> <p>Historical Info:</p> <p>1854 map: Unidentified 1867 map: A. Hyde 1881 map: H.W. Eddy</p> |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|--|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 35</p> | <p>4 Center Street (outbuilding)</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F3 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Of note is the associated house barn, which appears to be of contemporaneous construction as the main building. Details of the detached outbuilding include: front gable with wide trim, clapboard siding, hinged double leaf wood doors, hinged hay door & 9-pane light</p> |
|  <p>Photo No. 36</p> | <p>5 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. early 1900s</p> <p>Map Point: F4 NRHP Recom.: Non-contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Style: No style Stories: 2 Plan: L-shaped Roof: hip Ext. Siding: vinyl Foundation: Windows: replacement DHS, sliding</p> <p>Details: The building no longer retains its original stylistic features. It consists of a rectangular block with rear wing. Original window openings have been altered.</p> |
|  <p>Photo No. 37</p> | <p>6 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1850</p> <p>Map Point: F5 NRHP Recom.: House and outbuilding - Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: Italianate Stories: 1.5 Plan: irregular Roof: gable Ext. Siding: vinyl Foundation: stone Windows: replacement DHS</p> <p>Details: A side-gabled building with distinctive central gabled dormer on façade. It has an open full-width porch, paired narrow windows, central entrance, central round arched above entrance, 1-story bay on north side.</p> |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 38</p> | <p>6 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.1850</p> <p>Map Point: F5 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Historical Info:</p> <p>1854 map: Unidentified 1867 map: J.H & Mariah Smith; in 1876, conveyed from Adolphus F. Morrison to W. Thomas Wilson 1881 map: O.A. Sacket</p> <p>An associated carriage barn is located at the rear of the lot. It has a single bay on the front gable and board & batten siding.</p> |
|  <p>Photo No. 39</p> | <p>7 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1850</p> <p>Map Point: 6 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: transitional Greek/Italianate Stories: 2 Plan: irregular Roof: gable Ext. Siding: asbestos Foundation: stone Windows: 6/6 DHS</p> <p>Details: An example of a transitional Greek Revival/Italianate house with full-width Victorian-era porch that extends across side wing & feature turned balusters, spindle frieze and decorative brackets.</p> |
|  <p>Photo No. 40</p> | <p>7 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1850</p> <p>Map Point: F6 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>It has a side hall entrance in the left bay with pedimented enframing, ¾ sidelights, and 2 narrow full-height openings with double-leaf doors. Window openings have pedimented wood surrounds. Hipped roof side wing has a single entrance on the front, tall narrow windows, 3-sided bay with brackets, & two brick chimneys on north slope</p> |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|---|---|
| Photograph | Property Information | Description |
|  | <p>7 Center Street Outbuilding</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F6 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Historical Info: 1867 map: J.M. Dix 1881 map: Mrs. Camp</p> <p>A front gabled house barn is associated with the property. It has a single-bay door with hay hood on the gable end.</p> |
| <p>Photo No. 41</p> | | |
|  | <p>8 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1840</p> <p>Map Point: F7 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: Italianate Stories: 2 Plan: irregular Roof: hip Ext. Siding: clapboard, wood siding Foundation: stone Windows: 4/4 & 1/1 DHS</p> <p>Details: An example of a hipped roof subtype of the Italianate style with alterations.</p> |
| <p>Photo No. 42</p> | | |
|  | <p>8 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1840</p> <p>Map Point: F7 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Historical Info:</p> <p>1854 map: Unidentified 1867 map: Unidentified in 1876, conveyed from Jos. G. Hopkins estate to Minerva Dix 1881 map: Mrs. E.C. Dix</p> |
| <p>Photo No. 43</p> | | |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|---|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 44</p> | <p>9 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. early 1900s</p> <p>Map Point: F8 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: Craftsman Stories: 1.5 Plan: irregular Roof: hip Ext. Siding: vinyl Foundation: stone Windows: replacement DHS</p> <p>Details: A representative example of a Craftsman influenced residence with enclosed porch, front gabled dormer, and hipped roof.</p> |
|  <p>Photo No. 45</p> | <p>9 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. early 1900s</p> <p>Map Point: F8 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | |
|  <p>Photo No. 46</p> | <p>9 Center Street Outbuilding</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. early 1900s</p> <p>Map Point: F8 NRHP Recom.: Outbuilding contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Associated with the property at the rear of the lot is a long, side-gabled rectangular house barn with two bays on the barn side.</p> |

Table 6.2. (cont'd)



| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|---|--|
| Photograph | Property Information | Description |
|  | <p>Levi. J. Pierce Homestead 10 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1840</p> <p>Map Point: F9 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: Italianate Stories: 2 Plan: irregular Roof: hip Ext. Siding: vinyl Foundation: stone Windows: replacement DHS</p> <p>Details: An asymmetrical subtype of the Italianate style with a low-pitched gabled roof. The façade features a Victorian-era full-width porch with spindle frieze, slender posts, & decorative brackets. The main entrance of the 3-ranked front has a side hall entrance in the right bay with simple eared enframement and double leaf wood panel & glass doors. Other details include paired decorative cornice brackets, side wing with entrance, full-height 1/1 DHS windows, & full-height polygonal bay</p> |
| <p>Photo No. 47</p> | <p>10 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1840</p> <p>Map Point: F9 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Historical Info: 1854 map: Daniel Sherman 1867 map: Joseph G. Hopkins. Hopkins died in in 1876, and his heirs were listed as his son Albert C. Hopkins, daughter Frances Hopkins Pierce (wife of Levi J. Pierce), and grandson Charles Joseph Swift, heirs of a deceased daughter. Levi J. Pierce, was executor of the estate, and the heirs conveyed the homestead to him in 1879 (<i>Liber 176 Page 132, and Liber 150 Page 301</i>). His will of 1896 left \$500 to the Prospect Cemetery, and his real estate to his widow Frances Hopkins Pierce, sons Charles H., Joseph G., and Albert L., and daughter Ophelia F. Taylor</p> |
|  | <p>Photo No.49</p> | |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 49</p> | <p>10 Center Street Outbuilding</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F9 NRHP Recom.: Outbuilding contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Levi J. Pierce died in 1916, and by that time, this small farm had become known as the “Levi J. Pierce homestead.” After the death of their father, house was conveyed to George S. Boss (<i>Liber 451 Page 340</i>), and the other farm lands associated with this house became the property of the American Legion.</p> |
|  <p>Photo No. 50</p> | <p>St. Rose of Lima 11 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1873</p> <p>Map Point: F10 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: Italianate Stories: 1 Plan: rectangular Roof: gable Ext. Siding: vinyl Foundation: concrete block Windows: architectural glass</p> <p>Details: The façade has an enclosed entry bay with replacement double-leaf wood doors and gabled pediment. Window openings are round arched with architectural glass. A lesser one-story addition is attached to the east side (rear). A modern church hall is located on the north side of the church.</p> |
|  <p>Photo No. 51</p> | <p>St. Rose of Lima Church 11 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1873</p> <p>Map Point: F10 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Historical Info.</p> <p>St. Rose of Lima built a small church in 1861. At a later date, Mr. & Mrs. Cyrus Angell donated land on the corner of Park & Center streets. The later building – the present ca. 1873 church – was moved to Center Street in 1931 (Hanover Bicentennial 1976). Note, Harrington reports the building was moved in 1939.</p> |



Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|---|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 52</p> | <p>12 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1840</p> <p>Map Point: F11 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: Italianate Stories: 2 Plan: rectangular w/rear wing Roof: hip Ext. Siding: vinyl Foundation: stone Windows: replacement DHS</p> <p>Details: A simple hipped-roof subtype of the Italianate style. Its three ranked façade openings were altered with entrances in the end bays. Details include open full-width porch, low-pitched hipped roof with wide overhanging eaves supported by decorative brackets.</p> |
|  <p>Photo No. 53</p> | <p>12 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F11 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Historical Info: 1854 map: doctor's home & office In 1865, conveyed from Stephen Eaton to Mary Brown 1867 map: N. B. Brown 1881 map: N. B. Brown</p> <p>Florence E. Brown Saunders conveyed the lot at 12 Center to Neil Jasper Lewis in 1901 (<i>Liber 283 Page 120</i>).</p> |
|  <p>Photo No. 54</p> | <p>12 Center Street Outbuilding</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F11 NRHP Recom.: Outbuilding - contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|---|---|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 55</p> | <p>16 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1905</p> <p>Map Point: F12 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: Queen Anne Stories: 2.5 Plan: irregular Roof: gable Ext. Siding: vinyl, wood shingles Foundation: stone Windows: DHS</p> <p>Details:</p> |
|  <p>Photo No. 56</p> | <p>16 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1905</p> <p>Map Point: F12 NRHP Recom.: Contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Historical Info:</p> <p>The lot at 16 Center was conveyed to Asa E. Dye in 1905 (<i>Liber 322 Page 512</i>).</p> |
|  <p>Photo No. 57</p> | <p>16 Center Street (Outbuilding)</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F12 NRHP Recom.: Outbuilding contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | |

Table 6.2. (cont'd)

| Village of Forestville, Town of Hanover, Chautauqua County | | |
|--|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 58</p> | <p>18 Center Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca.</p> <p>Map Point: F13 NRHP Status: NRE (I) NRHP Recom.: House and outbuilding contributing to recommended Center St. Hist. Dist. In Project Viewshed: Yes</p> | <p>Style: Queen Anne Stories: 2.5 Plan: irregular Roof: hip, gable Ext. Siding: asbestos shingle Foundation: stone Windows: 1/1 DHS</p> <p>Details:</p> |
|  <p>Photo No. 59</p> | <p>21 Pearl Street</p> <p>Town: Hanover Village: Forestville MCD: 01352 Cattaraugus County Date: ca. 1868-1880</p> <p>Map Point: F14 NRHP Status: NRE (I) NRHP Recom.: House and carriage house contributing to recommended Center St. Hist. Dist. In Project Viewshed: No</p> | <p>Style: Second Empire Stories: 2.5 w/ 3.5 story central tower Plan: irregular Roof: Mansard Ext. Siding: brick Foundation: stone Windows: 2/2 DHS</p> <p>Details: An excellent example of a highly intact Second Empire building with carriage house.</p> <p>Historical Info:</p> <p>1881 map: W.N. Schoonover</p> |

6.3 SILVER CREEK HISTORIC DISTRICT: RECOMMENDATIONS

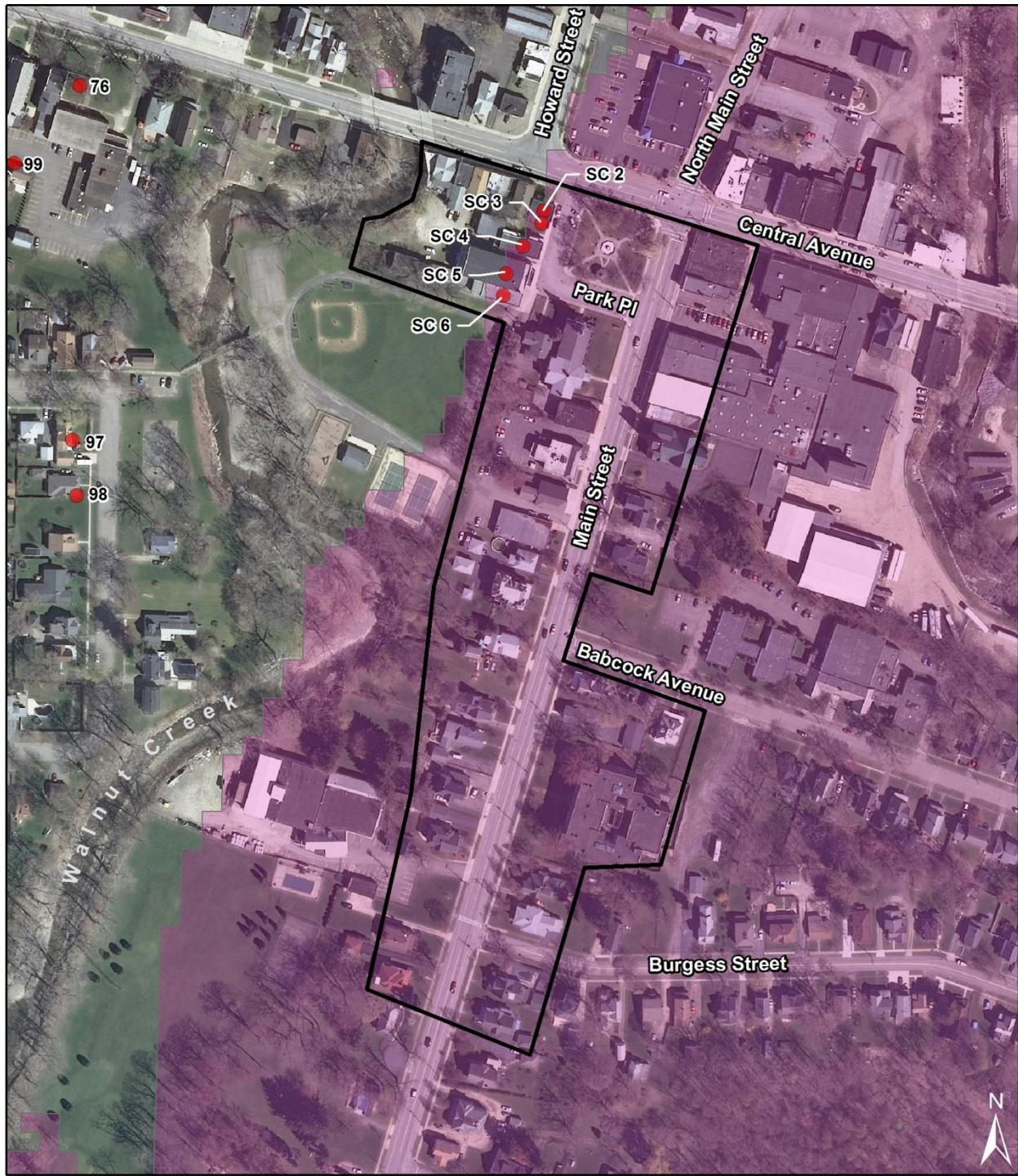
The potential NRE Silver Creek Historic District in the Village of Silver Creek, Town of Hanover, Chautauqua County, is partially in the 2013 Project viewshed (Figure 6.2). NYSHPO has determined Silver Creek Historic District as a “potential” NRE historic district. Only one property in the Silver Creek Historic District, a commercial building at 199-201 Central Avenue (New York 5), is in the Project viewshed. As part of the 2013 addendum survey, the portion of the viewshed in Silver Creek was reviewed to identify whether any new areas necessitated additional architectural survey (see Section 3.5.1. for specific background information).




The addendum survey included an architectural survey of properties on two streets, Park Place and Howard Street. The northern section of the Silver Creek Historic District on Central Avenue and the rear section of the properties on the west side of Park Place are in the Project viewshed. Buildings on the west side of Park Place fronting Silver Creek Village Park have not been previously inventoried by earlier surveys (SPHINX 2013). The section of Howard Street partially in the viewshed is on the east side of Howard Street between Silver Creek and Central Avenue (New York 5). This one-block section of Howard Street includes the industrial complex S. Howes Inc. (25 Howard Street). Presently, the S. Howes Inc. complex has an “Undetermined” NRHP status (SPHINX 2013).

The current study recommends the following:

- The five buildings located on the west side of Park Place as contributing buildings to the Silver Creek Historic District; Nos. 7, 9, 17, 19, and 25 Park Place. Inclusion of these buildings will connect the Village Park with properties on Main Street, Park Place, and Central Avenue.
- The Geitner Theatre at 19 Park Place, based only on the existing condition of the exterior, appears to be individually eligible for the NRHP under Criterion C as a largely intact example of an early twentieth-century, Neoclassical Revival-inspired “motion picture” theatre. The architectural integrity of the interior of the building is unknown as the building was not accessible when the addendum survey was conducted.
- Further evaluation and delineation of boundaries of Silver Creek Historic District is recommended for any future historic resource surveys.

A pedestrian survey of Silver Creek Historic District and the area surrounding Silver Creek Village Park on the west side of Park Place was conducted (Photographs 6.7 to 6.10). Five buildings fronting the west side of Park Place are partially in the viewshed. As a result of the setting of the Village Park and the discontinuous boundary of the northern end of Silver Creek Historic District, this row of buildings was considered for potential inclusion in Silver Creek Historic District. Originally constructed as commercial buildings, these properties include: 7 Park Place (Unique Hair & Nails); 9 Park Place (Stitches); 17 Park Place (People Inc.); 19 Park Place (The Geitner Theatre/now “The Blackline”); and 25 Park Place. A vacant lot is located on the northwest corner of Park Place and Central Avenue and the lot between 9 Park Place and 17 Park Place is now part of the expanded People’s Inc. facility at 17 Park Place (see Figure 6.2). The southern part of the block represents the rebuilding of the center of the village after one of the most disastrous fires in the community’s history occurred in 1921.



-  NRE Silver Creek District (SC 1) (Approximate Boundary)
-  Identified Historical Property
-  No Turbines Visible

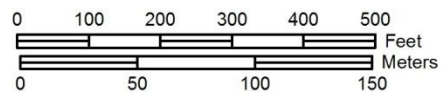


Figure 6.2. Approximate boundaries of the Silver Creek Historic District (NYSGIS Clearinghouse 2012).



Photograph 6.7. Silver Creek Village Park and the northern end of Silver Creek Historic District, facing south (*Panamerican* 2013).



Photograph 6.8. Silver Creek Village Park with Nos. 7 through 25 Park Place (from left to right) in the background, facing west (*Panamerican* 2013).



Photograph 6.9. Nos. 7 through 25 Park Place (from right to left), facing southwest (*Panamerican 2013*).



Photograph 6.10. A circa 1950s view of Silver Creek Village Park with Nos. 7 through 25 Park Place (from right to left) in the background, facing southwest (digital photograph of a historic photograph on display in the Silver Creek Post Office at 37 Main Street).

In 1907, five buildings lined the west side of Park Place; a small ice house, two large dwellings with carriage houses, a boots and shoes shop, a post office, and a barber shop (Figure 6.3). Two dwellings, the Presbyterian Church, and two groceries occupied the south side of the street at that time. The Village Park had a bandstand in center of the park and was noted as “full of shade trees” (Sanborn Map Company 1907). The 1921 fire destroyed the Methodist Church, the Park Avenue Hotel, the trolley station, the grandstand of the ball park, and other buildings on the west side of Main Street. By 1923, the west side of Park Place featured a row of seven commercial buildings including The Geitner Theatre (19 Park Place; built 1921). The other six buildings contained assorted stores (Figure 6.4).

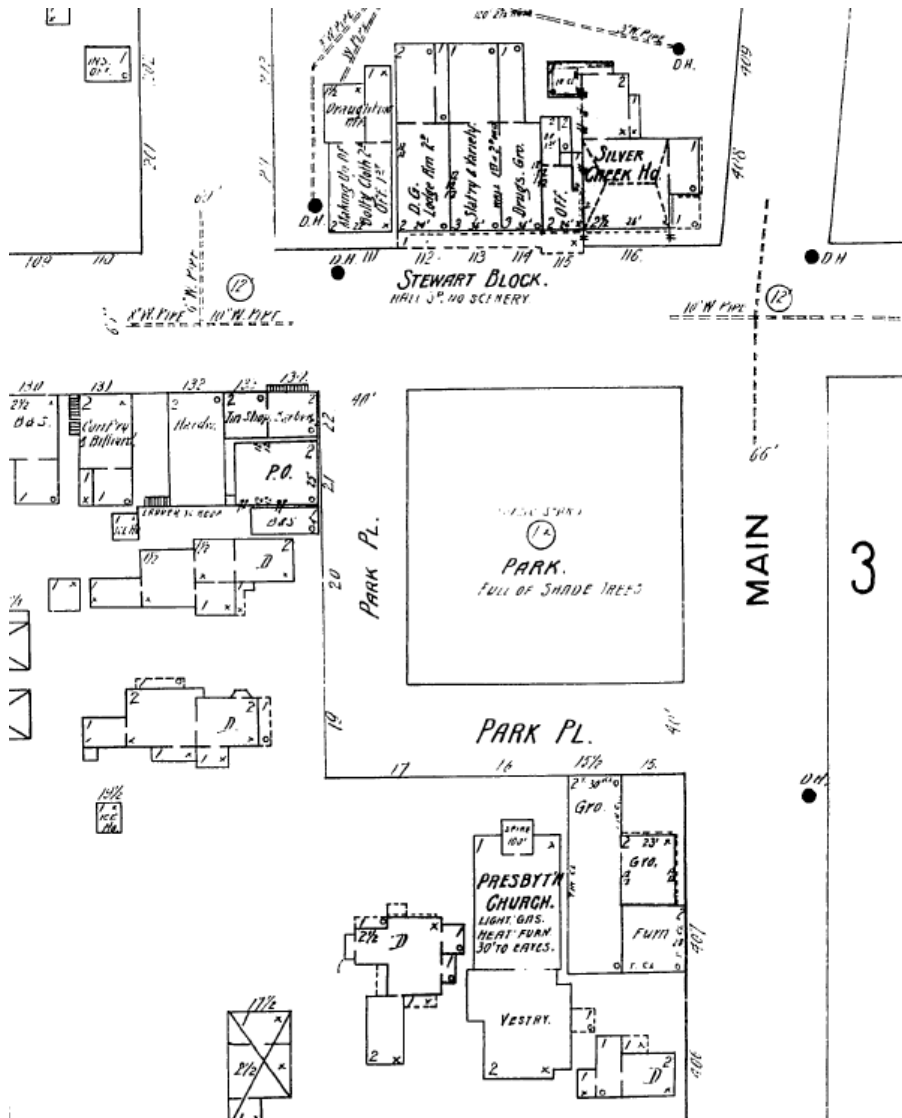


Figure 6.3. A detail of the Village Park and Park Place in 1907 (Sanborn Map Company 1907:Plate 2).

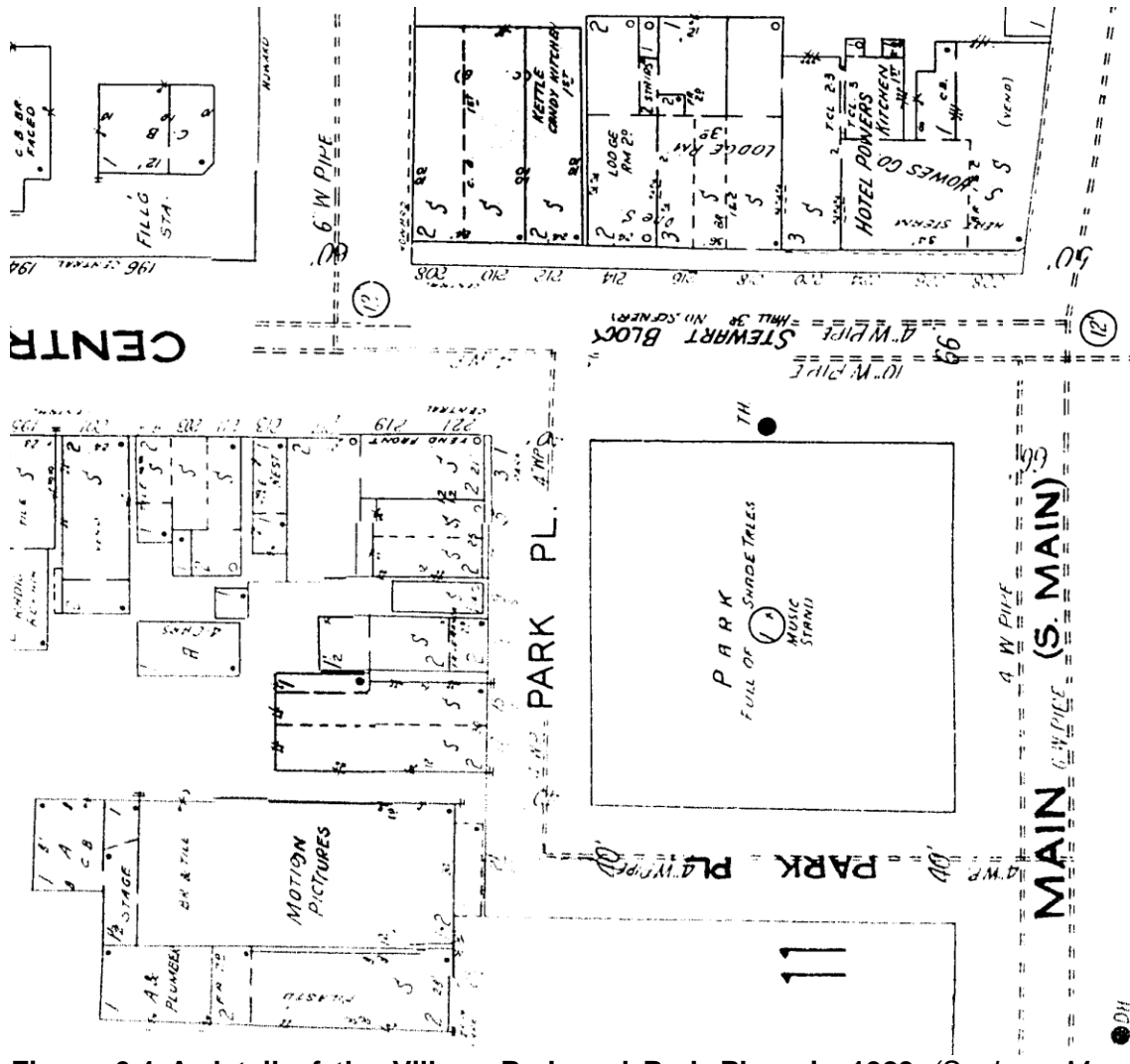


Figure 6.4 A detail of the Village Park and Park Place in 1923 (Sanborn Map Company 1923: Plate 6).

Collectively, the row of commercial buildings on the west side of Park Place contributes to the historic setting of the Silver Creek Village Park. The Presbyterian Church and parsonage on the south side of the street further enhance the park’s setting. Most of the extant historic views and postcards of the Village Park capture the park with buildings on Park Place in the background. The Park Place buildings exhibit similar materials, scale, form, and design as other contemporaneous commercial buildings in Silver Creek. As originally laid out in the nineteenth century, Park Place with its narrow street width and sidewalks conveys a more park-like village setting than the much improved and heavily trafficked streets that border the park to the north (Central Avenue/New York 5) and (Main Street/US Route 20). The east side of Main Street opposite the park contains two mid-century commercial buildings, a bank building, parking lot, and a bakery complex. Buildings on the east side of Main Street were previously evaluated and determined Not Eligible for the NRHP. The block on the north side of Central Avenue is now occupied by a modern pharmacy building and its large parking lot.

The commercial block on the south side of Central Avenue west of Park Place has been altered by the recent demolition of a two-story commercial building at 207-209 Central Avenue (USN 01346.00001119). The building was previously determined “Not Eligible” (SPHINX 2013). Similar to other commercial buildings on Central Avenue, the former building at 207-209 Central Avenue was a frame, gabled-roof building with an early twentieth-century storefront with a yellow brick façade and parapet.

The current addendum survey also included visual inspection of the S. Howes Inc. complex at 701 Howard Street (USN 0134.000167; Photographs 6.11-6.14). Partially located in the Project viewshed, the complex presently has an “Undetermined” NRHP status (SPHINX 2013). The S. Howes Company began its first grain-cleaning machinery shop on this site in 1868. By 1885, under the name Howes and Ewell Eurka Wheat Cleaning Machinery, the works had expanded. From 1885 to 1902, the works expanded again and a large four-story brick factory was constructed on the southern part of the parcel. S. Howes also owned the lumber yard on the opposite side of Howard Street at the confluence of Walnut and Silver creeks. At one time the extensive works occupied the large tract of land behind the commercial block (Stewart Block) fronting Central Avenue. The property is bound by Howard Street, North Main Street, and Silver Creek. The main factory building, as documented on Sanborn maps and historic photographs is no longer extant. Remaining buildings in the complex include the frame office building fronting Howard Street, Plant No. 1 (Foundry Building and Warehouse), and Plant No. 2 (a mid-twentieth-century industrial building). The S. Howes Inc. complex is not recommended as an individually NRE property due to the loss of its most significant building, the main factory. However, it should be considered in future evaluation of the Silver Creek Historic District as a potential contributing resource. The S. Howes Company was important in the development of the village. At one time, 80 percent of all the grain-cleaning machinery was manufactured in Silver Creek. Further, the NRE S. Howes Residence at 47 Main Street is located in the Silver Creek Historic District.



Photograph 6.11. S. Howes Inc. complex on Howard Street, facing northeast (Panamerican 2013).



Photograph 6.12. Plant No. 1, S. Howes Inc., facing east (Panamerican 2013).



Photograph 6.13. Plant No. 2, S. Howes Inc., facing northeast (*Panamerican 2013*).









Photograph 6.14. Plant No. 1 and warehouse on North Main Street, Howes Inc., facing southwest (*Panamerican 2013*).




Table 6.3 Annotated List of Properties for Silver Creek Historic District

| Chautauqua County Town: Hanover Village: Silver Creek | | |
|---|--|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 60</p> | <p>7 Park Place</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County Date: ca.1890</p> <p>Map Point: SC2 NRHP Recom.: Contributing to Silver Creek Historic District</p> | <p>Style: Masonry vernacular Stories: 2 Plan: Rectangular Roof: Shed Ext. Siding: Brick Foundation: Stone Windows: replacement 1/1 double-hung sash (DHS)</p> <p>Details: A largely intact example of a nineteenth-century brick commercial building with two storefronts.</p> |
|  <p>Photo No. 61</p> | <p>7 Park Place</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> <p>Map Point: SC2 NRHP Recom.: Contributing to Silver Creek Historic District</p> | <p>Details: The frame storefronts have a central recessed entrance, large single panel display window with two pane transom, and frame bulkhead. A separate entrance to the upper level is set in the right bay. The second floor features stone lintels and sills. The façade has a parapet with sawtooth molding and glazed clay tile coping. Segmental arch window openings are visible on the 2nd floor of the south elevation.</p> |
|  <p>Photo No. 61</p> | <p>9 Park Place</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County Date: Date: ca. 1890, ca. 1920s storefront</p> <p>Map Point: SC3 NRHP Recom.: Contributing to Silver Creek Historic District</p> | <p>Style: Early 20th Century Commercial Stories: 1 Plan: Rectangular Roof: Shed Ext. Siding: Brick and clapboard Foundation: Windows: Display</p> <p>Details: A largely intact example of frame commercial building with a early 20th-century brick storefront.</p> |


| Chautauqua County Town: Hanover Village: Silver Creek | | |
|---|--|---|
| Photograph | Property Information | Description |
| | <p>9 Park Place</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> <p>Map Point: SC3 NRHP Recom.: Contributing to Silver Creek Historic District</p> | <p>Details: The main block is a frame building. The early 20th-century, yellow brick front features a storefront with wood window and door frames, a recessed entrance with transom, and a decorative brick panel on the front of the parapet. An exterior brick chimney is on the south side and a frame shed is attached to the rear of the building.</p> |
| <p>Photo No. 62</p> | | |
| | <p>17 Park Place (People's Inc)</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County Date: ca.</p> <p>Map Point: SC4 NRHP Recom.: Contributing to Silver Creek Historic District</p> | <p>Style: Early 20th Commercial Stories: 2 Plan: Rectangular Roof: Front gable Ext. Siding: Clapboard Foundation: Windows: Replacement</p> <p>Details: A representative example of an early 20th-century commercial building</p> |
| <p>Photo No. 63</p> | | |
| | <p>17 Park Place (People's Inc)</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County Date: ca. 1921</p> <p>Map Point: SC4 NRHP Recom.: Contributing to Silver Creek Historic District</p> | <p>The building's storefront has been altered and now features replacement windows and brick bulkheads. The second floor of the façade retains its three-part window openings and features cast stone decorative elements and brick decorative panels. A modern concrete block entrance and an addition were added to the north side of the building</p> |
| <p>Photo No. 64</p> | | |

| Chautauqua County Town: Hanover Village: Silver Creek | | |
|---|--|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 65</p> | <p>17 Park Place (People's Inc)</p> | <p>View: West elevation showing modern 1- story concrete block addition.</p> |
|  <p>Photo No. 66</p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County Date: 1921</p> <p>Map Point: SC5 NRHP Recom.:</p> <ol style="list-style-type: none"> Contributing to Silver Creek Historic District Individual NRE | <p>Style: Early 20th Commercial-Neoclassical Revival Stories: 2 Plan: Rectangular Roof: Gable with stepped parapet Ext. Siding: Brick Foundation: Concrete Windows: casement</p> <p>Details: An excellent example of a largely intact (exterior) early 20th-century early "motion picture" theatre inspired by the Neoclassical-inspired stylistic elements</p> |
|  <p>Photo No. 67</p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> <p>Map Point: SC5</p> | <p>Details: The yellow brick façade features a brick marquee supported by square brick columns with cast stone capitals and foundations, a wide brick marquee with a cast stone cornice, brick parapet containing the cast stone panel with the original theatre name. It has five pairs of original double-leaf wood and glass doors.</p> |

| Chautauqua County Town: Hanover Village: Silver Creek | | |
|---|---|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 68</p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> <p>Map Point: SC5</p> | <p>View: Alley between 19 Park Place (left) and 17 Park Place (right)</p> <p>Details (cont'd): The upper level of the façade is a wide band of casement windows set in a cast stone surround, two decorative cast stone cartouches, a date stone (1921), a cast stone cornice, and a stepped parapet with a cast stone wreath.</p> |
|  <p>Photo No. 69</p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> | <p>View: Front side entrance on north elevation.</p> <p>Window openings on the north elevation have been filled in with brick.</p> |
|  <p>Photo No. 70</p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> | <p>View: Original double-leaf wood exit doors on north elevation.</p> |

| Chautauqua County Town: Hanover Village: Silver Creek | | |
|---|---|--|
| Photograph | Property Information | Description |
|  <p>Photo No. 71</p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> | <p>View: West elevation.</p> <p>A one-story frame addition with shed roof is attached to the west elevation. It appears that the addition might be brick with vinyl siding.</p> |
|  <p>Photo No. 72</p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> | <p>View: Detail of north and east elevations.</p> |
|  <p>Photo No. 73</p> | <p>The Geitner Theatre (The Backline)</p> <p>19 Park Place (The Backline) Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> | <p>Postcard of The Geitner Theatre postmarked 27 February 1924.</p> <p>It appears the original cast stone building name sign is intact, but presently obscured by a modern sign.</p> |

| Chautauqua County Town: Hanover Village: Silver Creek | | |
|---|---|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 74</p> | <p>25 Park Place</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County Date: ca. late 1910s</p> <p>Map Point: SC6 NRHP Recom.: Contributing to Silver Creek Historic District</p> | <p>Style: Early 20th Century Commercial</p> <p>Stories: 2 Plan: Rectangular Roof: Shed Ext. Siding: Brick Foundation: Concrete Windows: Display and replacement windows on the south elevation.</p> <p>Details: A representative example of an early 20th century commercial building</p> |
|  <p>Photo No. 75</p> | <p>25 Park Place</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> <p>Map Point: SC6</p> | <p>Details: The original main block of the building is the brick two-story section fronting Park Place. The building has multiple rear additions. The east façade has a single storefront with a recessed central entrance, wood door and window frames, large display windows, wood bulkheads and a pent canopy. The 2nd floor has two oriels.</p> |
|  <p>Photo No. 76</p> | <p>25 Park Place</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> <p>Map Point: SC6</p> | <p>View: East elevation and one-story ornamental concrete block rear addition.</p> |

| Chautauqua County Town: Hanover Village: Silver Creek | | |
|---|--|---|
| Photograph | Property Information | Description |
|  <p>Photo No. 77</p> | <p>25 Park Place</p> <p>Town: Hanover Village: Silver Creek MCD: 01346 Chautauqua County</p> <p>Map Point: SC6</p> | <p>View: Rear frame additions.</p> |

7.0 References

- Adams, William
1893 *Historical Gazetteer and Biographical Memorial of Cattaraugus County, New York*. Lyman, Horton & Company, Ltd, Syracuse.
- Beers, D.G., J.H. Goodhue, and E.F. Sanford
1869 *Atlas of Cattaraugus County, New York*. D.G. Beers & Co., New York.
- Beers, Frederick W.
1881 *Illustrated Historical Atlas of the County of Chautauqua, New York*. F.W. Beers, New York.
- Baugnet, Andrew
2002 "Picturing the Grange: 130 Years." *Voices* (Volume 28 Spring-Summer), New York Folklore Society, Schenectady, NY.
- Bonafide, John A.
2008 Letter to Andrew C. Davis, State of New York Department of Public Service, Albany, New York. Re: PSC/SEQR Noble Ball Hill Windpark (08PR01814), dated 24 September 2008. New York State Office of Parks Recreation and Historic Preservation.
- Cattaraugus County
2008 *Cattaraugus County Bicentennial History*. Maggie Frederickson, ed. Cattaraugus County, New York.
- Chautauqua County Historian
2009 *Architectural Inventory: Nineteenth Century Structures in Chautauqua County, New York*. Electronic database, <http://www.co.chautauqua.ny.us/departments/clerk/historian/Pages/HistoricalCountyStructures.aspx>, accessed October 1, 2012.
- Cressey, George B.
1966 Land Forms. In *Geography of New York State*, edited by John H. Thompson, pp. 19-53. Syracuse University Press, Syracuse.
- de Laubenfels, David J.
1966 Vegetation. In *Geography of New York State*, edited by John H. Thompson, pp. 90-103. Syracuse University Press, Syracuse.
- Edson, Obed
1894 *History of Chautauqua County, New York*. Edited by Georgia Drew Merrill. W.A. Ferguson & Co., Boston.
- Ellis, Franklin
1879 *History of Cattaraugus County, New York*. L.H. Everts, Philadelphia.
- glassbottlemarks.com
nd "Glass Bottle Marks." Electronic document, <http://www.glassbottlemarks.com/>, accessed October 1, 2012.

- Hanley, Robert J., Michael A. Cinquino, Rebecca J. Emans, and Joseph Kline
2008a *Addendum to the Phase I Cultural Resources Investigation for the Proposed Noble Ball Hill Windpark, Towns of Villenova and Hanover, Chautauqua County, New York (OPRHP #08PR01814)*. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Noble Ball Hill Windpark, LLC, Essex, CT.
- Hanley, Robert J., Mark A. Steinback, Michael A. Cinquino, Rebecca J. Emans, Edwin Button, Sharon Jenkins, and Donald Smith
2008b *Phase I Cultural Resources Investigation for the Proposed Noble Ball Hill Windpark, Towns of Villenova and Hanover, Chautauqua County, New York (OPRHP #08PR01814)*. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Noble Ball Hill Windpark, LLC., Essex, CT.
- Harrington, Mrs. Leroy H.
1949 *Forestville, Its Environs, Past and Present*. Paper prepared and read at a meeting of the Chautauqua County Historical Society, Forestville N.Y. on June 4, 1949.
- Isachsen, Y.W., T.D. Mock, R.E. Nyahay, and W.B. Rogers
1990 *New York State Geological Highway Map*. New York State Museum Educational Leaflet No. 33. New York State Department of Education, Albany.
- Keeney, C.G.
1854 *Map of Chautauqua County, New York*. Philadelphia, Collins G. Keeney.
- Longiaru, Christine M., Kelly M. Mahar, Frank J. Schieppati, Donald Smith, Mark A. Steinback, Michael A. Cinquino, and Martin Wachadlo
2008 *Architectural Survey (Five-mile APE) for the Proposed Noble Ball Hill Windpark, Towns of Villenova and Hanover, Chautauqua County, New York (OPRHP #08PR01814)*. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Noble Ball Hill Windpark, LLC, Essex, CT.
- Miller, G.L.
2000 Telling Time for Archaeologists. *Northeast Historical Archaeology* 29:1-22.
- National Resource Conservation Service (NRCS)
2012 *Soil Survey Geographic (SSURGO) Database for Chautauqua County, New York*. Soil Survey Staff, Natural Resources Conservation Service, U.S. Department of Agriculture, Washington, D.C. Electronic database, <http://soildatamart.nrcs.usda.gov>, accessed September 20, 2012.
- New York Archaeological Council (NYAC)
1994 *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections*. On file at Panamerican Consultants, Inc., Buffalo Branch, Buffalo.
- New York State Museum (NYSM)
2004 *Artifact Cataloging Catalog, Cultural Resource Survey Program. Policies and Procedures for the Archaeological Collections of the New York State Museum*. Anthropological Survey, Albany, New York. Developed by M. Pickands and A. Lain. Expanded by J. Pasquini and T. Thomas.

New York State Historic Preservation Office (NYSHPO)

2006 *Guidelines for Wind Farm Development Cultural Resources Survey Work*. New York State Historic Preservation Office, Office of Parks, Recreation and Historic Preservation, Peebles Island, Waterford.

Noël Hume, Ivor

1969 *A Guide to Artifacts of Colonial America*. Alfred A. Knopf, New York.

NYS GIS Clearinghouse

2008 *Digital Orthoimagery of Chautauqua County*, 2ft resolution, 4-band. Electronic database, <http://gis.ny.gov/gateway/mg/2008/chautauqua/>, accessed September 3, 2012.

2012 *Digital Orthoimagery of Chautauqua County*, 12ft resolution, 4-band. Electronic database, <http://gis.ny.gov/gateway/mg/2012/chautauqua/>, accessed April 30, 2013.

Pentingill & Company

1903 *Pentingill's Newspaper Directory and Gazetteer*. Pentingill & Company, Boston.

Puglia, Paul S.

1994 *Soil Survey of Chautauqua County, New York*. U.S. Department of Agriculture, Soil Conservation Service in cooperation with the Cornell University Agricultural Experiment Station. U.S. Government Printing Office, Washington, D.C.

Sexton, James, and Jim Toner

2009 *Historic Architectural Resource Investigation, 5-mile Ring Study, Arkwright Summit Wind Farm, Towns of Arkwright, Charlotte, Cherry Creek, Dunkirk, Hanover, Pomfret, Sheridan, Stockton, and Villenova, The Villages of Cassadaga, Fredonia, and Forestville, and the City of Dunkirk, Chautauqua County, New York*. Tetrattech, Inc. Prepared for Arkwright Summit Wind Farm, LLC, Albany, NY.

sha.org

nd Bottle Finishes & Closures, Part II: Types or Styles of Finishes – Page 2. Society for Historical Archaeology. Electronic document, <http://www.sha.org/bottle/finishstyles2.htm#Collared Ring> , accessed October 1, 2012.

South, Stanley A.

1977 *Method and Theory in Historical Archaeology*. Academic Press, New York.

Stewart, William

1867 *New Topographical Atlas of Chautauqua County, New York*. William Stewart Publisher, Philadelphia.

Thomas, Marion

1952 "Chautauqua County Churches A History," *Once Upon a Time*. Electronic document, <http://www.rootsweb.ancestry.com/~nychauta/HISTORY/Once/Once8.htm>, accessed September 25, 2012.

Town of Hanover

1976 *Town of Hanover Bicentennial Commemorative Program*. Town of Hanover, NY.

United States Geological Survey (USGS)

- 1900 *Cherry Creek, NY Quadrangle*. 15-Minute Series, US Government Printing Office, Washington, D.C. Electronic document, <http://store.usgs.gov>, accessed August 31, 2012.
- 1900 *Silver Creek, NY Quadrangle*. 15-Minute Series, US Government Printing Office, Washington, D.C. Electronic document, <http://store.usgs.gov>, accessed August 31, 2012.
- 1960 *Farnham, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.
- 1960 *North Collins, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.
- 1960 *Silver Creek, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.
- 1976 [1954] *Cassadega, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-inspected but not revised.
- 1976 [1954] *Cherry Creek, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-inspected but not revised.
- 1976 [1963] *Gowanda, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-inspected but not revised.
- 1976 [1954] *Hamlet, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-inspected but not revised.
- 1976 [1963] *New Albion, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-inspected but not revised.
- 1976 [1955] *North of Dunkirk, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-inspected but not revised.
- 1979 [1954] *Dunkirk, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-revised.
- 1979 [1954] *Forestville, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-revised.
- 1979 [1954] *Perrysburg, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-revised.

1984 *Buffalo, New York, 1:100k Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.

1986 *Olean, New York-Pennsylvania, 1:100k Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.

1986 *Silver Creek, New York-Pennsylvania-Ontario, 1:100k Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.

1988 [1986] *Jamestown, New York-Pennsylvania, 1:100k Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-inspected.

Van Diver, Bradford B.

1985 *Roadside Geology of New York*. Mountain Press Publishing Company, Missoula, MT.

Young, Andrew W.

1875 *History of Chautauqua County, New York*. Printing House of Mathews & Warren, Buffalo.

**Appendix A. Archaeological Investigation
Shovel Test Log**

Shovel Test Log for Ball Hill Addendum MDS Testing, Phase I

| Shovel Test | Stratum | Depth (cm) | Munsell | Soil Color | Soil Description | Comments |
|-------------|--|------------|----------------------|------------------|------------------|--|
| A1.1 | 1 | 0-33 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.1 | 2 | 33-43 | 10YR 6/3 | PALE BR | SA LO | NCM |
| A1.2 | 1 | 0-28 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.2 | 2 | 28-41 | 10YR 4/4 | DK YL BR | SI LO | NCM |
| A1.3 | 1 | 0-32 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.3 | 2 | 32-44 | 10YR 5/4 | YL BR | SA LO | NCM |
| A1.4 | 1 | 0-33 | 10YR 4/2 | DK GR BR | SI LO | 1 whiteware |
| A1.4 | 2 | 33-43 | 10YR 5/4 | YL BR | SA LO | NCM |
| A1.5 | 1 | 0-29 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.5 | 2 | 29-41 | 10YR 5/4 | YL BR | SA LO | NCM |
| A1.6 | 1 | 0-20 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.6 | 2 | 20-40 | 10YR 6/3 10YR 5/4 | PALE BR YL BR | SA LO | NCM |
| A1.7 | 1 | 0-32 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.7 | 2 | 32-42 | 10YR 6/3 10YR 5/4 | PALE BR YL BR | SA LO | NCM |
| A1.8 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.8 | 2 | 30-43 | 10YR 6/3 10YR 5/6 | PALE BR YL BR | SA LO | NCM |
| A1.9 | 1 | 0-32 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.9 | 2 | 32-45 | 10YR 6/3 10YR 5/6 | PALE BR YL BR | SA LO | NCM |
| A1.10 | 1 | 0-31 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.10 | 2 | 31-41 | 10YR 6/3 | PALE BR | SA LO | NCM |
| A1.11 | 1 | 0-35 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.11 | 2 | 35-46 | 10YR 6/3 | PALE BR | SA LO | NCM |
| A1.12 | 1 | 0-37 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A1.12 | 2 | 37-50 | 10YR 6/3 | PALE BR | SA LO | NCM |
| A2.1 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.1 | 2 | 30-40 | 10YR 4/4 | DK YL BR | CL LO | NCM |
| A2.2 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.2 | 2 | 30-42 | 10YR 5/4 | YL BR | SI CL | NCM |
| A2.3 | 1 | 0-31 | 10YR 4/2 | DK GR BR | SI LO | 1 pearlware |
| A2.3 | 2 | 31-41 | 10YR 5/4 | YL BR | SI CL | NCM |
| A2.4 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.4 | 2 | 30-41 | 10YR 4/4 | DK YL BR | CL LO | NCM |
| A2.5 | 1 | 0-27 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.5 | 2 | 27-42 | 10YR 4/4 | DK YL BR | CL LO | NCM |
| A2.6 | 1 | 0-22 | 10YR 4/2 | DK GR BR | SI LO | cut stone fragment; slag (not collected) |
| A2.6 | 2 | 22-29 | 10YR 4/4 | DK YL BR | CL LO | NCM; rock impasse at 29cm |
| A2.7 | 1 | 0-38 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.7 | 2 | 38-48 | 10YR 4/4 | DK YL BR | CL LO | NCM |
| A2.8 | 1 | 0-28 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.8 | 2 | 28-45 | 10YR 4/4 | DK YL BR | LO | NCM |
| A2.9 | 1 | 0-28 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.9 | 2 | 28-40 | 10YR 4/4 | DK YL BR | LO | NCM |
| A2.10 | 1 | 0-28 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.10 | 2 | 28-33 | 10YR 4/4 | DK YL BR | LO | NCM; rock impasse at 33cm |
| A2.11 | 1 | 0-24 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.11 | 2 | 24-36 | 10YR 4/4 | DK YL BR | CL LO | NCM |
| A2.12 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| A2.12 | 2 | 30-40 | 10YR 4/4 | DK YL BR | CL LO | NCM |
| B.1 | 1 | 0-32 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| Key | Soil Color: BL = black, BR = brown, DK = dark, GR = gray, LT = light, V = very, YL = yellow | | | | | |
| | Soil Description: CL = clay, LO = loam, SA = sand, SI = silt | | | | | |
| | Comments: NCM = no cultural material | | | | | |

Shovel Test Log for Ball Hill Addendum MDS Testing, Phase I

| Shovel Test | Stratum | Depth (cm) | Munsell | Soil Color | Soil Description | Comments |
|-------------|---------|------------|----------------------|---------------------|------------------|--|
| B.1 | 2 | 32-43 | 10YR 4/4 | DK YL BR | CL LO | NCM |
| B.2 | 1 | 0-20 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.2 | 2 | 20-32 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| B.3 | 1 | 0-25 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.3 | 2 | 25-35 | 10YR 6/3 | PALE BR | SA LO | NCM |
| B.4 | 1 | 0-29 | 10YR 4/2 | DK GR BR | SI LO | 1 canning jar glass |
| B.4 | 2 | 29-40 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| B.5 | 1 | 0-31 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.5 | 2 | 31-41 | 10YR 5/4 | YL BR | SA LO | NCM |
| B.6 | 1 | 0-28 | 10YR 4/2 | DK GR BR | SI LO | flat glass (not collected) |
| B.6 | 2 | 28-40 | 10YR 5/4 | YL BR | SA LO | NCM |
| B.7 | 1 | 0-27 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.7 | 2 | 27-40 | 10YR 5/4 | YL BR | SA LO | NCM |
| B.8 | 1 | 0-27 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.8 | 2 | 27-37 | 10YR 6/3 | PALE BR | SA LO | NCM |
| B.9 | 1 | 0-12 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.9 | 2 | 12-30 | 10YR 6/3 | PALE BR | SA LO | NCM |
| B.10 | 1 | 0-24 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.10 | 2 | 24-38 | 10YR 5/6 | YL BR | SA LO | NCM |
| B.11 | 1 | 0-22 | 10YR 4/4 | DK YL BR | SI LO | NCM |
| B.11 | 2 | 22-34 | 10YR 5/2 | GR BR | SA LO | NCM |
| B.12 | 1 | 0-10 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.12 | 2 | 10-31 | 10YR 5/6 | YL BR | SA LO | NCM |
| B.13 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.13 | 2 | 30-40 | 10YR 4/4 10YR 6/3 | DK YL BR PALE BR | SA LO | NCM |
| B.14 | 1 | 0-27 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.14 | 2 | 27-37 | 10YR 4/4 10YR 6/3 | DK YL BR PALE BR | SA LO | NCM |
| B.15 | 1 | 0-20 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.15 | 2 | 20-33 | 10YR 6/3 | PALE BR | SA LO | NCM |
| B.16 | 1 | 0-20 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.16 | 2 | 20-32 | 10YR 5/4 | YL BR | SA LO | NCM |
| B.17 | 1 | 0-30 | 10YR 4/2 10YR 5/4 | DK GR BR YL BR | SI LO | NCM; gravel impasse at 30cm |
| B.18 | 1 | 0-40 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.18 | 2 | 40-50 | 10YR 6/3 10YR 4/4 | PALE BR DK YL BR | SA LO | NCM |
| B.19 | 1 | 0-25 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.19 | 2 | 25-35 | 10YR 6/3 10YR 4/4 | PALE BR DK YL BR | SA LO | NCM |
| B.20 | 1 | 0-22 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| B.20 | 2 | 22-32 | 10YR 6/3 10YR 5/4 | PALE BR YL BR | SA LO | NCM |
| C1.1 | 1 | 0-28 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C1.1 | 2 | 28-38 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C1.2 | 1 | 0-33 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C1.2 | 2 | 33-43 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C1.3 | 1 | 0-35 | 10YR 4/2 | DK GR BR | SI LO | 5 bottle glass; 2 coal; 2 flat glass; 1 brick fragment |
| C1.3 | 2 | 35-45 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C1.4 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | flat glass (not collected) |
| C1.4 | 2 | 30-42 | 10YR 5/6 10YR 6/3 | YL BR PALE BR | SA LO | NCM |
| C1.5 | 1 | 0-29 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C1.5 | 2 | 29-40 | 10YR 5/6 10YR 6/3 | YL BR PALE BR | SA LO | NCM |

Shovel Test Log for Ball Hill Addendum MDS Testing, Phase I

| Shovel Test | Stratum | Depth (cm) | Munsell | Soil Color | Soil Description | Comments |
|-------------|---------|------------|----------------------|---------------------|------------------|---|
| C1.6 | 1 | 0-25 | 10YR 4/2 | DK GR BR | SI LO | 1 square glass bottle base 1 circular glass bottle base; 8 container glass; 1 redware |
| C1.6 | 2 | 25-36 | 10YR 5/4 | YL BR | SA LO | NCM |
| C1.7 | 1 | 0-29 | 10YR 4/2 | DK GR BR | SI LO | 1 glass bottle neck; 1 stoneware; 1 whiteware |
| C1.7 | 2 | 29-39 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C1.8 | 1 | 0-24 | 10YR 4/2 | DK GR BR | SI LO | 2 whiteware; 1 vessel glass; 1 flat glass |
| C1.8 | 2 | 24-35 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C1.9 | 1 | 0-31 | 10YR 4/2 | DK GR BR | SI LO | 1 glass bottle neck |
| C1.9 | 2 | 31-41 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C1.10 | 1 | 0-27 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C1.10 | 2 | 27-32 | 10YR 4/4 | DK YL BR | SA LO | NCM; rock impasse at 32 cm |
| C1.11 | 1 | 0-28 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C1.11 | 2 | 28-38 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C1.12 | 1 | 0-18 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C1.12 | 2 | 18-30 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C1.13 | 1 | 0-26 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C1.13 | 2 | 26-36 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.1 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C2.1 | 2 | 30-40 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.2 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C2.2 | 2 | 30-40 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.3 | 1 | 0-28 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C2.3 | 2 | 28-40 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.4 | 1 | 0-27 | 10YR 4/2 | DK GR BR | SI LO | 1 brick fragment; 1 redware; 1 flat glass |
| C2.4 | 2 | 27-42 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.5 | 1 | 0-23 | 10YR 4/2 | DK GR BR | SI LO | 3 flat glass; 1 whiteware |
| C2.5 | 2 | 23-38 | 10YR 6/3 10YR 4/4 | PALE BR DK YL BR | SA LO | NCM |
| C2.6 | 1 | 0-24 | 10YR 4/2 | DK GR BR | SI LO | 1 whiteware; 1 flat glass; 2 brick fragments; 1 cut nail |
| C2.6 | 2 | 24-40 | 10YR 6/3 10YR 4/4 | PALE BR DK YL BR | SA LO | NCM |
| C2.7 | 1 | 0-30 | 10YR 4/2 | DK GR BR | SI LO | 4 container glass |
| C2.7 | 2 | 30-45 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.8 | 1 | 0-29 | 10YR 4/2 | DK GR BR | SI LO | 2 pearlware; 2 brick fragments; 1 flat glass |
| C2.8 | 2 | 29-40 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.9 | 1 | 0-17 | 10YR 4/2 | DK GR BR | SI LO | 1 whiteware; 2 pearlware |
| C2.9 | 2 | 17-32 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.10 | 1 | 0-24 | 10YR 4/2 | DK GR BR | SI LO | 1 ironstone |
| C2.10 | 2 | 24-38 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.11 | 1 | 0-21 | 10YR 4/2 | DK GR BR | SI LO | 1 iron bolt; 3 container glass |
| C2.11 | 2 | 21-33 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.12 | 1 | 0-19 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C2.12 | 2 | 19-32 | 10YR 4/4 | DK YL BR | SA LO | NCM |
| C2.13 | 1 | 0-29 | 10YR 4/2 | DK GR BR | SI LO | NCM |
| C2.13 | 2 | 29-40 | 10YR 4/4 | DK YL BR | SA LO | NCM |

Appendix B. Archaeological Investigation Artifact Catalog

Artifact Catalog for Ball Hill Addendum MDS Testing

| Provenience | Stratum | Material | Artifact Type | Count | Secondary Type | Comments |
|---------------------|----------------|-----------------|---------------------------|--------------|-----------------------|---|
| A1.4 | 1 | ceramic | whiteware, transfer print | 1 | black | burned, probable tableware, 4 cm |
| A2.3 | 1 | ceramic | pearlware | 1 | | 4 cm, probable tableware |
| B.4 | 1 | glass | canning jar | 1 | clear | embossed "A", 4 cm |
| B.6 | 1 | glass | flat | 1 | clear | |
| C1.3 | 1 | other | brick fragment | 1 | | 2.2 cm |
| C1.3 | 1 | other | coal | 2 | | under 4 cm |
| C1.3 | 1 | glass | flat | 2 | | under 4 cm |
| C1.3 | 1 | glass | bottle | 1 | clear | embossed ".A", possible side of prescription type bottle, 2.5 cm |
| C1.3 | 1 | glass | bottle | 1 | aqua | 7 mm thick, canning jar?, partially embossed ".BUR.." [only top of letters visible], 4 cm |
| C1.3 | 1 | glass | bottle | 3 | aqua | fragments appear related to item listed above, under 3 cm |
| C1.4 | 1 | glass | flat | 1 | clear | |
| C1.6 | 1 | ceramic | redware | 1 | | 14 mm thick, curved, possible drain tile, under 3 cm |
| C1.6 | 1 | glass | vessel | 6 | clear | probable bottle glass, under 4 cm |
| C1.6 | 1 | glass | vessel | 1 | blue-green | probable bottle glass, 4 cm |
| C1.6 | 1 | glass | vessel | 1 | aqua | probable bottle glass, 2 cm |
| C1.6 | 1 | glass | bottle base, rectangular | 1 | aqua | prescription type, oval suction scar, embossed O in a Square [Owen's Bottle Company, Toledo OH (1903-1929, likely used after 1919 |
| C1.6 | 1 | glass | bottle base, circular | 1 | aqua | possible canning jar, embossed "MAR..." |
| Surface around C1.6 | surface | ceramic | ironstone | 1 | blue | cup plate rim, wide and thin blue hand painted bands, 3.5 cm |
| Surface around C1.6 | surface | ceramic | ironstone | 3 | | under 5 cm, tablewares |
| Surface around C1.6 | surface | ceramic | buff earthenware | 1 | | buff, white slip interior and exterior, 3.5 cm |
| Surface around C1.6 | surface | ceramic | red stoneware | 1 | | brown exterior glaze, jug or tile fragment, 5 x 7.5 cm, 1 cm thick |
| Surface around C1.6 | surface | glass | vessel | 4 | clear | probable bottle glass, under 5 cm |
| Surface around C1.6 | surface | glass | bottle | 1 | aqua | body fragment, 5 cm |

Artifact Catalog for Ball Hill Addendum MDS Testing

| Provenience | Stratum | Material | Artifact Type | Count | Secondary Type | Comments |
|---------------------|----------------|-----------------|---|--------------|-----------------------|--|
| Surface around C1.6 | surface | glass | cup or preserve jar rim | 1 | clear | rim fragment, 4.5 cm |
| C1.7 | 1 | glass | bottle finish, collared ring | 1 | clear | cork enclosure, appears fully molded, est. 1900-1930, under 3 cm |
| C1.7 | 1 | ceramic | whiteware | 1 | | 2.5 cm, probable tableware |
| C1.7 | 1 | ceramic | stoneware bottle | 1 | | body fragment, reddish body, brown glaze exterior, alkaline glazed interior, 5 cm |
| C1.8 | 1 | ceramic | whiteware | 1 | | 1.5 cm |
| C1.8 | 1 | ceramic | whiteware, annular | 1 | blue and brown bands | 1.5 cm |
| C1.8 | 1 | glass | vessel | 1 | clear | probable bottle glass, 4.5 cm |
| C1.8 | 1 | glass | flat | 1 | | 3 cm |
| C1.9 | 1 | glass | bottle finish, straight brandy or wine type | 1 | clear | cork enclosure, appears mold bown, commonly used for liquors and large medicinal bottles, 5 cm |
| C2.4 | 1 | ceramic | redware | 1 | | low fired (soft), clear alkaline glaze. 2.5 cm |
| C2.4 | 1 | other | brick fragment | 1 | | under 2 cm |
| C2.4 | 1 | glass | flat | 1 | | under 2.5 cm |
| C2.5 | 1 | glass | flat | 3 | | under 3 cm |
| C2.5 | 1 | ceramic | whiteware | 1 | | 1 cm, very thin fragment |
| C2.6 | 1 | metal | nail, cut, fragment | 1 | | 3 cm |
| C2.6 | 1 | other | brick fragment | 2 | | under 2 cm |
| C2.6 | 1 | glass | flat | 1 | | 3.5 cm |
| C2.6 | 1 | ceramic | whiteware, annular | 1 | green band | rim, probable cup or small plate, fine band, under 1.5 cm |
| C2.7 | 1 | glass | bottle | 1 | aqua | possible canning jar lid fragment, 4 cm |
| C2.7 | 1 | glass | vessel | 2 | aqua | probable bottle glass, under 4 cm |
| C2.7 | 1 | glass | vessel | 1 | clear | probable bottle glass, 1 cm |
| C2.8 | 1 | ceramic | pearlware | 1 | | 1.5 cm, probable plate base |
| C2.8 | 1 | ceramic | pearlware | 1 | | 2.5 cm, probable plate base, partial impressed makers mark (intelligible) |
| C2.8 | 1 | glass | flat | 1 | | 1 cm |
| C2.8 | 1 | other | brick fragment | 2 | | 2 cm |
| C2.9 | 1 | ceramic | pearlware | 2 | | under 3.5 cm, probable tableware |
| C2.9 | 1 | ceramic | whiteware | 1 | | 3 cm, probable tableware |

Artifact Catalog for Ball Hill Addendum MDS Testing

| Provenience | Stratum | Material | Artifact Type | Count | Secondary Type | Comments |
|----------------------------|----------------|-----------------|----------------------|--------------|-----------------------|---|
| C2.10 | 1 | ceramic | ironstone | 1 | | foot, possible basin/pitcher, 5 cm |
| C2.11 | 1 | glass | bottle | 1 | clear | portion of neck, 4 cm, thick mold seam |
| C2.11 | 1 | glass | vessel | 2 | clear | probable bottle glass, 3 cm |
| C2.11 | 1 | metal | bolt | 1 | | very corroded, 8 cm |
| Area C between tests 3 & 7 | surface | other | brick fragment | 1 | | 4 cm |
| Area C between tests 3 & 7 | surface | glass | pressed/molded glass | 1 | clear | probable small dish or cup rim, pressed or molded decorative rim, under 4 cm |
| Area C between tests 3 & 7 | surface | glass | vessel | 1 | clear | pedestal / foot fragment, 6 cm |
| Area C between tests 3 & 7 | surface | glass | canning jar | 1 | aqua | rim shard, similar to lightning type enclosure, 5 cm, popular 1st-half 20th century |
| Area C between tests 3 & 7 | surface | glass | vessel | 1 | clear | probable bottle glass, 4 cm |
| Area C between tests 3 & 7 | surface | glass | flat | 2 | | under 3 cm |
| Area C between tests 3 & 7 | surface | ceramic | pearlware/whiteware | 1 | blue | rim fragment, possible negative blue transfer, under 2 cm |
| Area C between tests 3 & 7 | surface | ceramic | whiteware | 2 | | probable tableware, under 3 cm |
| Area C between tests 3 & 7 | surface | ceramic | whiteware | 1 | | small cup handle |
| Area C between tests 3 & 7 | surface | ceramic | ironstone | 4 | | probable tableware, under 4 cm |

Appendix C. OPRHP Site form for PCI Ball Hill-3

NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM

For Office Use Only--Site Identifier _____

Project Identifier _____
Your Name Donald A. Smith
Address 2390 Clinton Street
Buffalo, NY 14227

Date October 1, 2012
Phone (716) 821-1650

Organization (if any) Panamerican Consultants, Inc.

- 1. Site Identifier(s) Site PCI/Ball Hill-3
- 2. County Chautauqua One of following: City _____
Township Villenova
Incorporated Village _____
Unincorporated Village or Hamlet _____

3. Present Owner
Address

4. Site Description (check all appropriate categories):

Structure/site
 Superstructure: complete__ partial_ collapsed__ not evident
 Foundation: above below_(ground level) not evident
 Structural subdivisions apparent
 Only surface traces visible
 Buried traces detected

List construction materials (be as specific as possible):
 No indications of a structure were present; flat glass, brick fragments, a cut nail, and a redware drain tile fragment were found in shovel tests and on the ground surface

Grounds Upland Floodplain
 Under cultivation Never cultivated Previously cultivated Sustaining erosion
 Woodland Pastureland Mowed lawn
 Soil Drainage: excellent__ good fair__ poor__
 Slope: flat__ gentle moderate__ steep__
 Distance to nearest water from site (approx.) 335m (1,100 ft) Elevation: 1,640 ft amsl

5. Site Investigation (append additional sheets, if necessary):

Surface date(s) 9/2012
 Site Map (Submit with form*) see attachment
 Collection

Subsurface--date(s) 9/2012
 Testing: shovel coring__ other__ unit size__ no. of units 26 (Submit plan of units*)

Excavation: unit size__ no. of units__ (Submit plan of units with form*)
 * Submission should be 8½"x11", if feasible.

Investigator Donald A. Smith

Manuscript or published report(s) (reference fully):

Smith, Donald A., Christine M. Longiaru, Frank J. Schieppati, Mark A. Steinback, and Michael A. Cinquino

2013 *Archaeological and Architectural History Phase I Addendum for the Duke Energy Ball Hill Wind Farm, Towns of Villenova and Hanover, Chautauqua County, New York, (OPRHP #08PR01814)*. Panamerican Consultants, Inc., Buffalo Branch. Prepared for Ecology & Environment, Lancaster, New York.

Present repository of materials Panamerican Consultants, Inc.

6. Site inventory:

a. date constructed or occupation period mid- 19th century to early 20th century

b. previous owners, if known

The site is likely related to an MDS shown as associated with G. Wagner in the Stewart 1867 Chautauqua County Atlas (see below), and with O.W. Hickey in the 1881 Chautauqua County Atlas.

c. modifications, if known

Recent additions to the exterior and modifications to the interior (append additional sheets, if necessary)

7. Site documentation (append additional sheets, if necessary):

a. Historic map references

1) **Name** Stewart, William

Date 1867 **Source** *New Topographical Atlas of Chautauqua County, New York*. William Stewart, Publisher, Philadelphia.

Present location of original, if known Buffalo and Erie County Library.

Available URL: <http://nyheritage.nnyln.net>

2) **Name** Beers, Frederick W.

Date 1881 **Source** *Illustrated Historical Atlas of the County of Chautauqua, New York*. F.W. Beers, New York.

Present location of original, if known Buffalo and Erie County Library.

Available URL: <http://nyheritage.nnyln.net>

3) **Name** U.S. Geological Survey

Date 1900 **Source** *Cherry Creek, NY. 15 Minute Series Quadrangle*, U.S. Government Printing Office, Washington, D.C.

Present location of original, if known

Available URL: http://store.usgs.gov/b2c_usgs/usgs/maplocator/

b. Representation in existing photography

1) **Photo date** _____ **Where located**

2) **Photo date** _____ **Where located**

c. Primary and secondary source documentation (reference fully)

d. Persons with memory of site:

1) **Name** **Address**

8. List of material remains other than those used in construction (be as specific as possible in identifying object and material): See Attachment x

A total of 86 historical artifacts were found at the site, of which 27 were surface finds and 59 were from shovel tests.

If prehistoric materials are evident, check here and fill out prehistoric site form. ___

9. Map References: Map or maps showing exact location and extent of identified site must accompany this form and must be identified by source and date. Keep this submission to 8½"x11", if possible.

USGS 7½ Minute Series Quad. Name Forestville, NY 1979 [1954]

For or Office Use Only—UTM Coordinates _____

10. Photography (optional for environmental impact survey):

Please submit a 5"x 7" black and white print(s) showing the current state of the site.

Provide a label for the print(s) on a separate sheet.

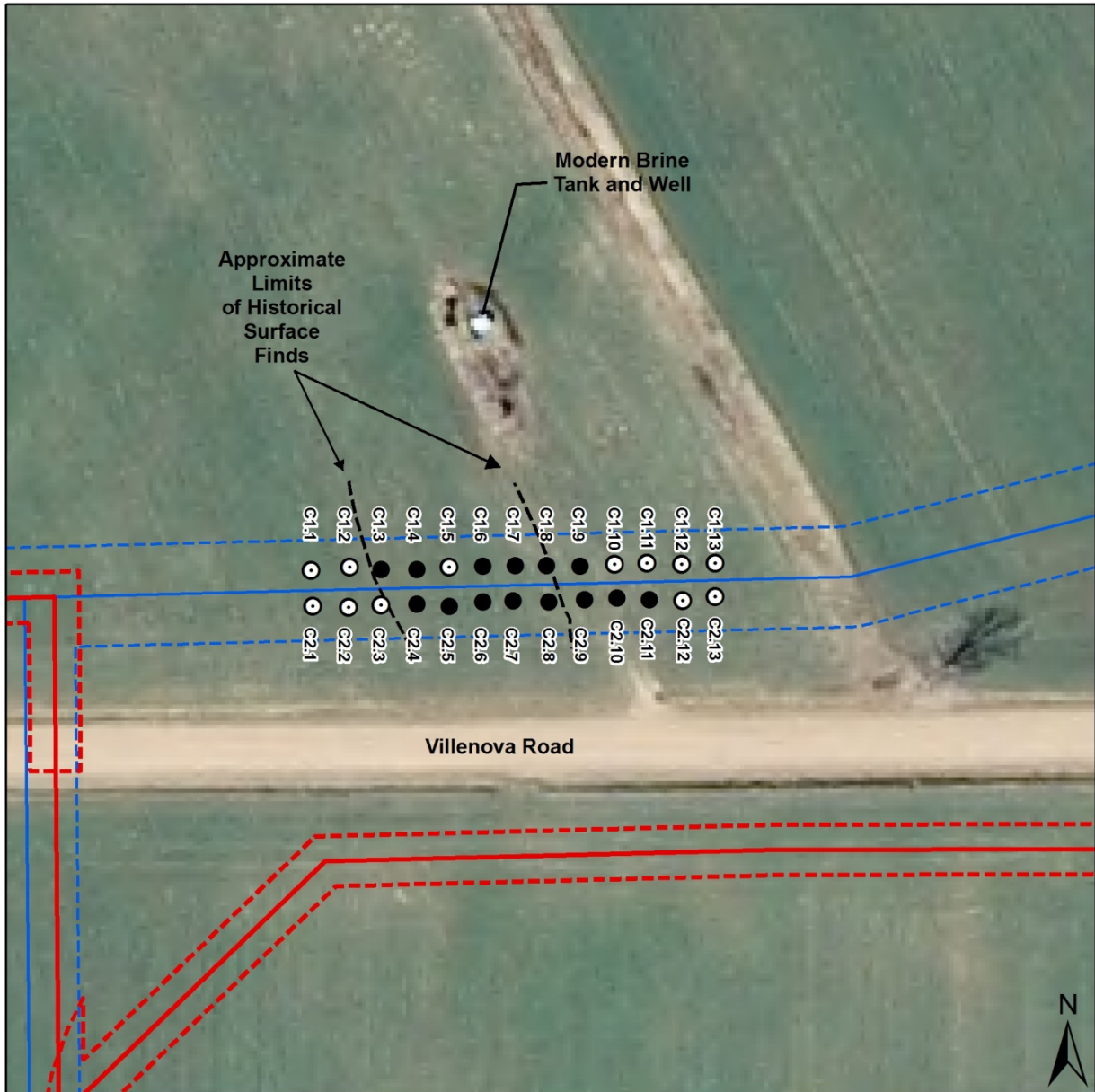
See attached.

NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM
SITE PCI/BALL HILL-3

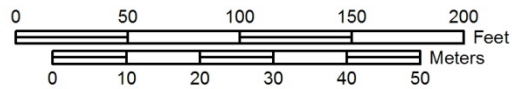


Location of PCI/Ball Hill-3. (USGS Cherry Creek, NY 1976 [1954]; Forestville, NY 1979 [1954]; Hamlet 1976 [1954]; Perrysburg, NY 1979 [1954]).

**NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM
SITE PCI/BALL HILL-3**



- Shovel Test with Historical Artifacts
- Shovel Test with no Artifacts
- Approximate 2012 Collection Line APE
- 2012 APE Centerline
- Current Collection Line APE
- Current Collection Line Centerline



Shovel testing at PCI/Ball Hill-3.

**NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM
SITE PCI/BALL HILL-3**



Setting of PCI/Ball Hill-3 in September 2012. The road on the left is Villanova Road

**NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM
SITE PCI/BALL HILL-3**

Artifact Catalog for PCI/Ball Hill-3

| Provenience | Stratum | Material | Artifact Type | Qty | Secondary Type | Comments |
|---------------------|---------|----------|--------------------------|-----|----------------|---|
| C1.3 | 1 | other | brick fragment | 1 | | 2.2 cm |
| C1.3 | 1 | other | coal | 2 | | under 4 cm |
| C1.3 | 1 | glass | flat | 2 | | under 4 cm |
| C1.3 | 1 | glass | bottle | 1 | clear | embossed "...A", possible side of prescription type bottle, 2.5 cm |
| C1.3 | 1 | glass | bottle | 1 | aqua | 7 mm thick, canning jar?, partially embossed "...BUR..." [only top of letters visible], 4 cm |
| C1.3 | 1 | glass | bottle | 3 | aqua | fragments appear related to item listed above, under 3 cm |
| C1.4 | 1 | glass | flat | 1 | clear | |
| C1.6 | 1 | ceramic | redware | 1 | | 14 mm thick, curved, possible drain tile, under 3 cm |
| C1.6 | 1 | glass | vessel | 6 | clear | probable bottle glass, under 4 cm |
| C1.6 | 1 | glass | vessel | 1 | blue-green | probable bottle glass, 4 cm |
| C1.6 | 1 | glass | vessel | 1 | aqua | probable bottle glass, 2 cm |
| C1.6 | 1 | glass | bottle base, rectangular | 1 | aqua | prescription type, oval suction scar, embossed O in a Square [Owen's Bottle Company, Toledo OH (1903-1929, likely used after 1919 |
| C1.6 | 1 | glass | bottle base, circular | 1 | aqua | possible canning jar, embossed "MAR..." |
| Surface around C1.6 | surface | ceramic | ironstone | 1 | blue | cup plate rim, wide and thin blue hand painted bands, 3.5 cm |
| Surface around C1.6 | surface | ceramic | ironstone | 3 | | under 5 cm, tablewares |
| Surface around C1.6 | surface | ceramic | buff earthenware | 1 | | buff, white slip interior and exterior, 3.5 cm |

| Provenience | Stratum | Material | Artifact Type | Qty | Secondary Type | Comments |
|---------------------|---------|----------|---|-----|----------------------|--|
| Surface around C1.6 | surface | ceramic | red stoneware | 1 | | brown exterior glaze, jug or tile fragment, 5 x 7.5 cm, 1 cm thick |
| Surface around C1.6 | surface | glass | vessel | 4 | clear | probable bottle glass, under 5 cm |
| Surface around C1.6 | surface | glass | bottle | 1 | aqua | body fragment, 5 cm |
| Surface around C1.6 | surface | glass | cup or preserve jar rim | 1 | clear | rim fragment, 4.5 cm |
| C1.7 | 1 | glass | bottle finish, collared ring | 1 | clear | cork enclosure, appears fully molded, est. 1900-1930, under 3 cm |
| C1.7 | 1 | ceramic | whiteware | 1 | | 2.5 cm, probable tableware |
| C1.7 | 1 | ceramic | stoneware bottle | 1 | | body fragment, reddish body, brown glaze exterior, alkaline glazed interior, 5 cm |
| C1.8 | 1 | ceramic | whiteware | 1 | | 1.5 cm |
| C1.8 | 1 | ceramic | whiteware, annular | 1 | blue and brown bands | 1.5 cm |
| C1.8 | 1 | glass | vessel | 1 | clear | probable bottle glass, 4.5 cm |
| C1.8 | 1 | glass | flat | 1 | | 3 cm |
| C1.9 | 1 | glass | bottle finish, straight brandy or wine type | 1 | clear | cork enclosure, appears mold bown, commonly used for liquors and large medicinal bottles, 5 cm |
| C2.4 | 1 | ceramic | redware | 1 | | low fired (soft), clear alkaline glaze. 2.5 cm |
| C2.4 | 1 | other | brick fragment | 1 | | under 2 cm |
| C2.4 | 1 | glass | flat | 1 | | under 2.5 cm |
| C2.5 | 1 | glass | flat | 3 | | under 3 cm |
| C2.5 | 1 | ceramic | whiteware | 1 | | 1 cm, very thin fragment |
| C2.6 | 1 | metal | nail, cut, fragment | 1 | | 3 cm |
| C2.6 | 1 | other | brick fragment | 2 | | under 2 cm |
| C2.6 | 1 | glass | flat | 1 | | 3.5 cm |
| C2.6 | 1 | ceramic | whiteware, annular | 1 | green band | rim, probable cup or small plate, fine band, under 1.5 cm |
| C2.7 | 1 | glass | bottle | 1 | aqua | possible canning jar lid fragment, 4 cm |

| Provenience | Stratum | Material | Artifact Type | Qty | Secondary Type | Comments |
|----------------------------|---------|----------|----------------------|-----|----------------|---|
| C2.7 | 1 | glass | vessel | 2 | aqua | probable bottle glass, under 4 cm |
| C2.7 | 1 | glass | vessel | 1 | clear | probable bottle glass, 1 cm |
| C2.8 | 1 | ceramic | pearlware | 1 | | 1.5 cm, probable plate base |
| C2.8 | 1 | ceramic | pearlware | 1 | | 2.5 cm, probable plate base, partial impressed makers mark (intelligible) |
| C2.8 | 1 | glass | flat | 1 | | 1 cm |
| C2.8 | 1 | other | brick fragment | 2 | | 2 cm |
| C2.9 | 1 | ceramic | pearlware | 2 | | under 3.5 cm, probable tableware |
| C2.9 | 1 | ceramic | whiteware | 1 | | 3 cm, probable tableware |
| C2.10 | 1 | ceramic | ironstone | 1 | | foot, possible basin/pitcher, 5 cm |
| C2.11 | 1 | glass | bottle | 1 | clear | portion of neck, 4 cm, thick mold seam |
| C2.11 | 1 | glass | vessel | 2 | clear | probable bottle glass, 3 cm |
| C2.11 | 1 | metal | bolt | 1 | | very corroded, 8 cm |
| Area C between tests 3 & 7 | surface | other | brick fragment | 1 | | 4 cm |
| Area C between tests 3 & 7 | surface | glass | pressed/molded glass | 1 | clear | probable small dish or cup rim, pressed or molded decorative rim, under 4 cm |
| Area C between tests 3 & 7 | surface | glass | vessel | 1 | clear | pedestal / foot fragment, 6 cm |
| Area C between tests 3 & 7 | surface | glass | canning jar | 1 | aqua | rim shard, similar to lightning type enclosure, 5 cm, popular 1st-half 20th century |
| Area C between tests 3 & 7 | surface | glass | vessel | 1 | clear | probable bottle glass, 4 cm |
| Area C between tests 3 & 7 | surface | glass | flat | 2 | | under 3 cm |
| Area C between tests 3 & 7 | surface | ceramic | pearlware/whiteware | 1 | blue | rim fragment, possible negative blue transfer, under 2 cm |

| Provenience | Stratum | Material | Artifact Type | Qty | Secondary Type | Comments |
|----------------------------------|----------------|-----------------|----------------------|------------|-----------------------|-----------------------------------|
| Area C between tests 3 & 7 | surface | ceramic | whiteware | 2 | | probable tableware, under 3 cm |
| Area C between tests 3 & 7 | surface | ceramic | whiteware | 1 | | small cup handle |
| Area C between tests 3 & 7 | surface | ceramic | ironstone | 4 | | probable tableware, under 4 cm |

Appendix D. NYSHPO Correspondence



New York State Office of Parks, Recreation and Historic Preservation

Historic Preservation Field Services Bureau • Peebles Island, PO Box 189, Waterford, New York 12188-0189

518-237-8643

www.nysparks.com

David A. Paterson
Governor

Carol Ash
Commissioner

September 24, 2008

Andrew C. Davis
State of New York
Department of Public Service
3 Empire State Plaza
Albany, NY 12223-1350

Re: PSC/SEQRA
Noble Ball Hill Windpark
60 Turbines/90 MW
Villanova/Hanover, Chautauqua County
08PR01814

Dear Mr. Davis:

The Office of Parks, Recreation and Historic Preservation (OPRHP) has been asked for comments on this undertaking by the project sponsor. We are providing these comments as part of what we anticipate will be a coordinated Section 14.09 (NYPRHPL) review as a result of the applicant's need to have the project certified by your agency. These comments are provided by the Field Services Bureau and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near the project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

This letter is to inform your agency that we have received a request to evaluate properties for potential historic/cultural significance. The material submitted was based on our agency's *generic wind farm survey guidance (2006)*. The evaluated survey area, as defined by our guidance, was a five-mile radius drawn around each of the individual turbine sites. The outer edges of these circles are connected by tangent lines thus producing a five-mile survey area around the entire project. It was also recommended that for an analysis of potential visual impacts to historic resources that the next step was to determine sight lines based on topographic features and the locations and maximum heights of each turbine.

The request for resource evaluation was received on August 15, 2008. It consisted of a single-volume report titled: *Architectural Survey (Five-Mile APE) for the Proposed Noble Ball Hill Windpark (July 2008, Panamerican Consultants, Inc.)*. This document identified a total of 146 individual properties within the survey area. The survey identified 132 individual buildings and one historic district (the Ewing Park Historic District). Based on our review of the materials the NYSHPO has determined that 121 of the individual resources are eligible for inclusion in the New York State and National Registers of Historic places (SR/NRE). An additional 13 out of 14 identified properties are included as *contributing features* in the Eligible Ewing Historic District. Eight identified bridges remain *unevaluated* at this time. Lastly, three buildings were determined not to meet the eligibility criteria. A full list of our assessment is attached to this letter as *Appendix A*.

The eligible resources identified in the survey report are diverse in both nature and their physical settings. Properties that will be in the view shed of the project include those in established village/hamlet settings as well as resources that occupy open rural agricultural settings. With few exceptions the scale of the building stock is limited to the height of single and two-story residential, commercial and agricultural buildings with few non agricultural elements breaking the treetops in this sparsely populated area.

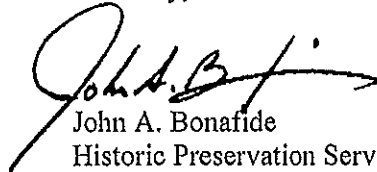
Within the survey area, this agency has identified several key loci where visual impacts should be carefully assessed. These areas encompass the villages of South Dayton, Silver Creek, Hamlet and Forestville as well as several highly intact farmsteads. Many of these resources will be in the viewshed of a significant number of the proposed towers. Given the undulating and sharply elevated topography of this area the potential viewshed/setting impacts associated with these resources should be carefully assessed. All resources where this office believes additional visual assessments should be undertaken have been identified in *Appendix A* with an asterisk (*). We would recommend that your agency seek to have appropriate visual simulations generated to better understand the full extent of the potential visual impacts associated with this project.

Although the full extent of potential impacts from the proposed undertaking cannot be assessed absent simulations as part of a comprehensive visual analysis, OPRHP believes that sufficient information does exist to determine that under Section 14.09, 1(c) of New York State Parks and Recreation Law, the undertaking will have an *Adverse Impact* on cultural resources. The introduction of the sleek, ultramodern, approximately 389 foot tall kinetic wind turbines (up to 60 proposed) throughout this scenic landscape forever alters and changes the rural setting, which itself is a significant element in much of the survey area and serves as the backdrop for the architectural, cultural and scenic tourism heritage of these communities.

We would recommend that the applicant utilize the visual analysis as a tool to aid in the exploration of feasible and prudent alternatives that avoid the adverse impact(s). The assessment of potential impact avoidance options may include a reduction in turbine numbers and/or height, relocation of turbine units, and various screening options. We would recommend that only after an assessment of avoidance options has been established should potential mitigation options be discussed. All consultation regarding avoidance options and potential later mitigation options should involve those state/federal agencies directly associated with the permitting/approval process for this project.

At this point in time we have concluded our evaluation of eligible resources and the potential impacts to those resources associated with this project. Please be aware that we will be asking the project sponsor for GPS data gathered as part of the survey. If you should have questions regarding our evaluation process or the basis for our effect recommendation, please do not hesitate to contact me at 518-237-8643, ext.3263.

Sincerely,



John A. Bonafide
Historic Preservation Services
Coordinator

cc: Michael Cinquino, Panamerican (via-e-mail)
Kristin Hawley, Noble (via-e-mail)

Appendix A

(I) = Previously determined NRE by the NYSHPO

| Map Point | Name | Street Number | Street Name | County | Town | Hamlet | Village | NRE Status | Visual Analysis |
|--|-------------------------------------|---------------|----------------------|-------------|------------|---------|--------------|-------------|-----------------|
| 1 | | 12182 | Markhams Road | Cattaraugus | Dayton | | | NRE(I) | |
| 2 | Erie RR Bridge over Conewango Creek | | Oaks Road | Cattaraugus | Dayton | | | Unevaluated | |
| 3 | Cottage Cemetery | | Cottage Road | Cattaraugus | Dayton | Cottage | | NRE | |
| 4 | | 12654 | Cottage Road | Cattaraugus | Dayton | Cottage | | NRE | |
| Simulations should be produced from several locations in the Village of South Dayton | | | | | | | | | * |
| 5 | | 27 | Cherry Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 6 | Factory Building | | East Railroad Avenue | Cattaraugus | Dayton | | South Dayton | NRE | |
| 7 | | 73 | East Railroad Avenue | Cattaraugus | Dayton | | South Dayton | NRE | |
| 8 | | 62 | Main Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 9 | | 203 | Maple Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 10 | | 212 or 214 | Maple Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 11 | Harry Austin Milling Co. | | Mill Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 12 | | 227 | Oak Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 13 | | 8143 | Oaks Road | Cattaraugus | Dayton | | South Dayton | NRE | |
| 14 | | 107 | Pine Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 15 | | 309 | Pine Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 16 | | 312 | Pine Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 17 | Wilson House | 319 | Pine Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 18 | | 413 | Pine Street | Cattaraugus | Dayton | | South Dayton | NRE | |
| 19 | Perrysburg Cemetery | | NY 39 | Cattaraugus | Perrysburg | | | NRE | |
| 20 | | 12316 | NY 39 | Cattaraugus | Perrysburg | | | NRE | |

| Map Point | Name | Street Number | Street Name | County | Town | Hamlet | Village | NRE Status | Visual Analysis |
|-----------|------------------------------------|---------------|------------------------|-------------|------------|-----------------|---------|------------|-----------------|
| 21 | Rugg-town West Perrysburg Cemetery | | West Perrysburg Road | Cattaraugus | Perrysburg | West Perrysburg | | NRE | |
| 22 | | 10929 | West Perrysburg Road | Cattaraugus | Perrysburg | West Perrysburg | | NRE | |
| 23 | Weaver Cemetery | | Center Road | Chautauqua | Arkwright | | | NRE | |
| 24 | | 8129 | Griswold Road | Chautauqua | Arkwright | | | NRE | |
| 25 | Rose Farm | 1936 | Ruttenbur Road | Chautauqua | Arkwright | | | NRE | |
| 26 | | 2667 | NY 83 | Chautauqua | Arkwright | Arkwright | | NRE | |
| 27 | Wooley Farm Complex | 8903-8911 | Farrington Hollow | Chautauqua | Arkwright | Blacks Corners | | NRE | |
| 28 | Arkwright Summit Cemetery | | Farrington Hollow Road | Chautauqua | Arkwright | Blacks Corners | | NRE | |
| 29 | Maple-Camp Farm/Black Farm | 2083 | NY 83 | Chautauqua | Arkwright | Blacks Corners | | NRE | |
| 30 | | 10917 | Alleghany Road | Chautauqua | Hanover | | | NRE | |
| 31 | | 12168 | Alleghany Road | Chautauqua | Hanover | | | NRE | |
| 32 | Evergreen Cemetery | | Angell Road | Chautauqua | Hanover | | | NRE | |
| 33 | Forestville Depot | | Center Street | Chautauqua | Hanover | | | NRE | |
| 34 | Christy Road Cemetery | | Christy Road | Chautauqua | Hanover | | | NRE | |
| 35 | | | Hanover Road | Chautauqua | Hanover | | | NRE | |
| 36 | Livemore Homestead | 10079 | Hanover Road | Chautauqua | Hanover | | | NRE | |
| 37 | Hurlburt Road/Swift Cemetery | | Hurlburt Road | Chautauqua | Hanover | | | NRE | |
| 38 | | | Hurlburt Road | Chautauqua | Hanover | | | NRE | |
| 39 | | 469 | NY 39 | Chautauqua | Hanover | | | NRE | |
| 40 | | 503 | NY 39 | Chautauqua | Hanover | | | NRE | |
| 41 | | 675 | NY 39 | Chautauqua | Hanover | | | NRE | |
| 42 | | 1411 | NY 39 | Chautauqua | Hanover | | | NRE | |
| 43 | | 11776 | Old Forestville Road | Chautauqua | Hanover | | | NRE(I) | |

| Map Point | Name | Street Number | Street Name | County | Town | Hamlet | Village | NRE Status | Visual Analysis |
|--|--------------------------|---------------|----------------------|------------|---------|----------------|-------------|-------------|-----------------|
| 44 | Pioneer Cemetery | 11049? | Old Forestville Road | Chautauqua | Hanover | | | NRE | |
| 45 | | 11103 | Old Forestville Road | Chautauqua | Hanover | | | NRE | |
| 46 | Mt. Carmel Cemetery | | Old Main Street | Chautauqua | Hanover | | | NRE | |
| 47 | Glenwood Cemetery | | Old Main Street | Chautauqua | Hanover | | | NRE | |
| 48 | | 11935 | Old Main Street | Chautauqua | Hanover | | | NRE | |
| 49 | Prospect Hill Cemetery | | Prospect Street | Chautauqua | Hanover | | | NRE | |
| 50 | Doty Cemetery | | Stebbins Road | Chautauqua | Hanover | | | NRE | |
| 51 | Ball Valley Farms | 11037 | Alleghany Road | Chautauqua | Hanover | Balltown | | NRE | |
| 52 | Balltown Cemetery | | Mackinaw Road | Chautauqua | Hanover | Balltown | | NRE | |
| 53 | | 12010 | Angell Road | Chautauqua | Hanover | Hanover Center | | NRE | |
| 54 | | 12021 | Angell Road | Chautauqua | Hanover | Hanover Center | | NRE | |
| 55 | Golden Harvest | 967 | Hanover Road | Chautauqua | Hanover | Hanover Center | | NRE | |
| 56 | | 11991 | Hanover Road | Chautauqua | Hanover | Hanover Center | | NRE | |
| 57 | Nashville Cemetery | | Alleghany Road | Chautauqua | Hanover | Nashville | | NRE | |
| 58 | Church | | NY 39 | Chautauqua | Hanover | Nashville | | NRE | |
| 59 | Smith's Mill Cemetery | | Hanover Road | Chautauqua | Hanover | Smith's Mill | | NRE | |
| Simulations should be produced from several locations in the Hamlet of Forestville | | | | | | | | | * |
| 60 | Bridge over Walnut Creek | | Bradigan Road | Chautauqua | Hanover | | Forestville | Unevaluated | |
| 61 | | 13 | Cedar Street | Chautauqua | Hanover | | Forestville | NRE | |
| 62 | | 18 | Center Street | Chautauqua | Hanover | | Forestville | NRE | |
| 63 | | 28 | Center Street | Chautauqua | Hanover | | Forestville | NRE | |
| 64 | | 11-15 | Main Street | Chautauqua | Hanover | | Forestville | NRE | |
| 65 | | 26 | Main Street | Chautauqua | Hanover | | Forestville | NRE | |
| 66 | | 27 | Main Street | Chautauqua | Hanover | | Forestville | NRE | |

| Map Point | Name | Street Number | Street Name | County | Town | Hamlet | Village | NRE Status | Visual Analysis |
|---|--|---------------|------------------|------------|---------|--------|--------------|-------------|-----------------|
| 67 | Forestville Free Methodist Church | 32 | Main Street | Chautauqua | Hanover | | Forestville | NRE | |
| 68 | | 43 | Main Street | Chautauqua | Hanover | | Forestville | NRE | |
| 69 | | 8 | Prospect Street | Chautauqua | Hanover | | Forestville | NRE | |
| 70 | | 9 | Water Street | Chautauqua | Hanover | | Forestville | NRE | |
| Simulations should be produced from several locations in the Hamlet of Silver Creek | | | | | | | | | * |
| 71 | Clark Mansion on Lighthouse Point | | Beachview Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 72 | | 10 | Beachview Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 73 | | 130 | Central Avenue | Chautauqua | Hanover | | Silver Creek | NRE(I) | |
| 74 | | 147 | Central Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 75 | | 151 | Central Avenue | Chautauqua | Hanover | | Silver Creek | NRE(I) | |
| 76 | Our Lady of Carmel | 165 | Central Avenue | Chautauqua | Hanover | | Silver Creek | NRE(I) | |
| 77 | | 338 | Central Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 78 | | 350 | Central Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 79 | | 5 | Christy Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 80 | | 9 | Christy Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 81 | | 4 | Dana Drive | Chautauqua | Hanover | | Silver Creek | NRE | |
| 82 | | 12370 | Hanover Road | Chautauqua | Hanover | | Silver Creek | NRE | |
| 83 | | 16 | Hanover Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 84 | | | Howard Street | Chautauqua | Hanover | | Silver Creek | Not NRE | |
| 85 | Skew Arch Bridge | | Jackson Street | Chautauqua | Hanover | | Silver Creek | Unevaluated | |
| 86 | Skew Arch Bridge and Nickel Plate Bridge over Jackson Street | | Jackson Street | Chautauqua | Hanover | | Silver Creek | Unevaluated | |

| Map Point | Name | Street Number | Street Name | County | Town | Hamlet | Village | NRE Status | Visual Analysis |
|-----------|--------------------------------------|---------------|------------------|------------|----------|--------|--------------|-------------|-----------------|
| 87 | Hanover Bridge | | Lake Avenue | Chautauqua | Hanover | | Silver Creek | Unevaluated | |
| 88 | Stone Bridge | | Lake Avenue | Chautauqua | Hanover | | Silver Creek | Unevaluated | |
| 89 | Nickel Plate Bridge over Lake Avenue | | Lake Avenue | Chautauqua | Hanover | | Silver Creek | Unevaluated | |
| 90 | | 6/8 | Lake Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 91 | St. Albans | 38 | Lake Avenue | Chautauqua | Hanover | | Silver Creek | NRE(I) | |
| 92 | | 18 | Oak Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 93 | | 30 | Oak Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 94 | | 117 | Old Main Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 95 | | 151 | Old Main Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 96 | | 155 | Old Main Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 97 | | 1 | Oliver Place | Chautauqua | Hanover | | Silver Creek | NRE | |
| 98 | | 5 | Oliver Place | Chautauqua | Hanover | | Silver Creek | NRE | |
| 99 | Swift House | 6 | Parkway Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 100 | | 9 | Parkway Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 101 | | 17 | Parkway Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 102 | Erbin House | 27 | Parkway Avenue | Chautauqua | Hanover | | Silver Creek | NRE(I) | |
| 103 | Trinity Lutheran Church | | Porter Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 104 | | 19? | Porter Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 105 | | 21 | Porter Avenue | Chautauqua | Hanover | | Silver Creek | NRE | |
| 106 | | 45 | Robinson Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 107 | | 16 | Rumsey Street | Chautauqua | Hanover | | Silver Creek | NRE | |
| 108 | | 28 | Ward Place | Chautauqua | Hanover | | Silver Creek | NRE | |
| 109 | | 1873 | East Middle Road | Chautauqua | Sheridan | | | NRE | |
| 110 | | 1980 | King Road | Chautauqua | Sheridan | | | NRE | |

| Map Point | Name | Street Number | Street Name | County | Town | Hamlet | Village | NRE Status | Visual Analysis |
|---|---|---------------|---------------------------|------------|-----------|----------------|---------|------------|-----------------|
| 111 | | 2023 | Stebbins Road | Chautauqua | Sheridan | | | NRE | |
| 112 | | 2248 | Stebbins Road | Chautauqua | Sheridan | | | NRE | |
| 113 | Wheeler Cemetery | | Hanover Road | Chautauqua | Villanova | | | NRE | |
| 114 | School No. 10 | 9129 | North Hill Road | Chautauqua | Villanova | | | Not-NRE | |
| 115 | | | NY 83 | Chautauqua | Villanova | | | NRE | |
| 116 | | 8025 | NY 83 | Chautauqua | Villanova | | | NRE | * |
| 117 | | 8052 | NY 83 | Chautauqua | Villanova | | | NRE | |
| 118 | | 8562 | NY 83 | Chautauqua | Villanova | | | NRE | |
| 119 | | 307 | Philips Road | Chautauqua | Villanova | | | NRE | |
| 120 | Pope Hill Cemetery | | Pope Hill Road | Chautauqua | Villanova | | | NRE | |
| 121 | Forestville Wesleyan Church/School/Ball Hill Cemetery | 9495 | Prospect Road | Chautauqua | Villanova | | | NRE | * |
| 122 | | 641 | South Dayton Road | Chautauqua | Villanova | Balcom | | NRE | |
| 123 | | 691 | South Dayton Road | Chautauqua | Villanova | Balcom | | NRE | |
| 124 | Dye Homestead | 558 | South Dayton-Hamlet Road | Chautauqua | Villanova | Balcom Corners | | NRE | |
| Simulations should be produced from several locations in Hamlet | | | | | | | | | * |
| 125 | Hamlet Cemetery | | NY 83 | Chautauqua | Villanova | Hamlet | | NRE | |
| 126 | | 1141 | NY 83 | Chautauqua | Villanova | Hamlet | | NRE | |
| 127 | Villanova Grange Hall | 1150 | NY 83 | Chautauqua | Villanova | Hamlet | | NRE | |
| 128 | Hamlet School District No. 2 | | School Street | Chautauqua | Villanova | Hamlet | | NRE | |
| 129 | Hamlet United Methodist Church | 1119 | South Dayton Road (NY 83) | Chautauqua | Villanova | Hamlet | | NRE | |
| 130 | | 1129 | South Dayton Road (NY 83) | Chautauqua | Villanova | Hamlet | | NRE | |

| Map Point | Name | Street Number | Street Name | County | Town | Hamlet | Village | NRE Status | Visual Analysis |
|-----------|--------------------|---------------|---------------------------|------------|-----------|------------------|---------|------------|-----------------|
| 131 | IOOF | | South Dayton Road (NY 83) | Chautauqua | Villanova | Hamlet | | NRE | |
| 132 | Villanova Cemetery | | Cemetery Road | Chautauqua | Villanova | Wright's Corners | | NRE | |

| Map Point | Name | Street Number | Street Name | County | Town | Village | NR Status | Visual Analysis | |
|--|-------------------------------|---------------|--------------|-------------|--------|--------------|-----------------------------------|-----------------|---|
| Ewing Park South Dayton Historic District | | | | | | | | | * |
| SD1 | E.B. Crissey & Co. | 30 | Maple Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | | |
| SD2 | Wilson Hale & Co. | 1 | Park Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | | |
| SD3 | Wilson Hale & Co./Post Office | 5 | Park Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | | |
| SD4 | Cattaraugus County Bank | 7 | Park Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | | |
| SD5 | Gypsy Tea Room | 9 | Park Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | | |
| SD6 | | 11 | Park Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | | |
| SD7 | | 13 | Park Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | | |
| SD8 | | 15 | Park Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | | |
| SD9 | Village Hall/Library | 17 | Park Street | Cattaraugus | Dayton | South Dayton | Non-Contributing to | | |

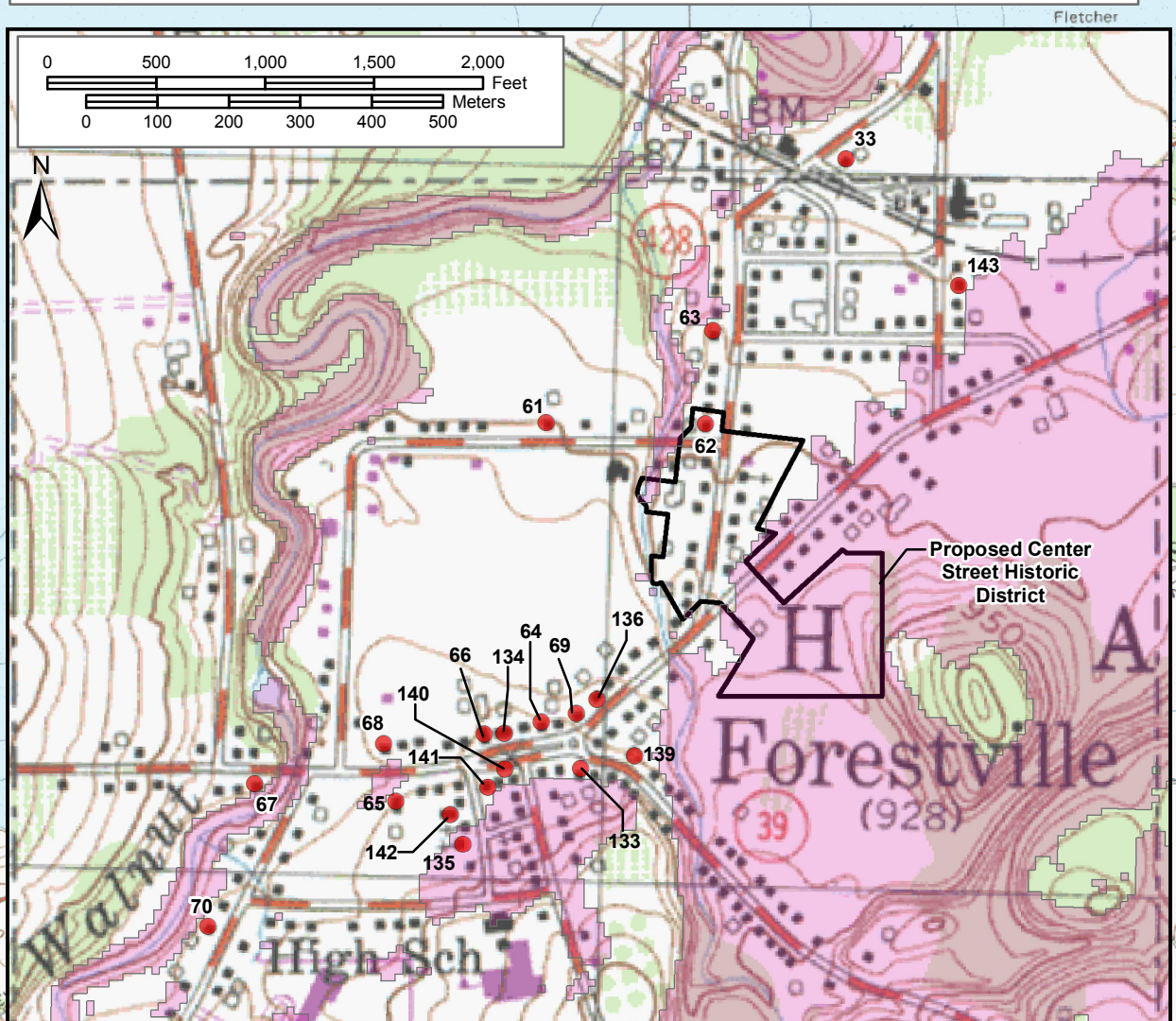
| Map Point | Name | Street Number | Street Name | County | Town | Village | NR Status | Visual Analysis |
|-----------|-------------------------------------|---------------|---------------------------------------|-------------|--------|--------------|-----------------------------------|-----------------|
| | | | | | | | historic district | |
| SD10 | Ewing Park | | Park, Maple, Railroad and Pine Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | |
| SD11 | The Valley House/South Dayton Hotel | 203 | Pine Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | |
| SD12 | | 205 | Pine Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | |
| SD13 | | 207 | Pine Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | |
| SD14 | South Dayton Depot | | Railroad Street | Cattaraugus | Dayton | South Dayton | Contributing to historic district | |

**Appendix E. Historical Architectural Investigation
Results Map**

Duke Energy Ball Hill Wind Farm - Historical Architectural Investigation Results

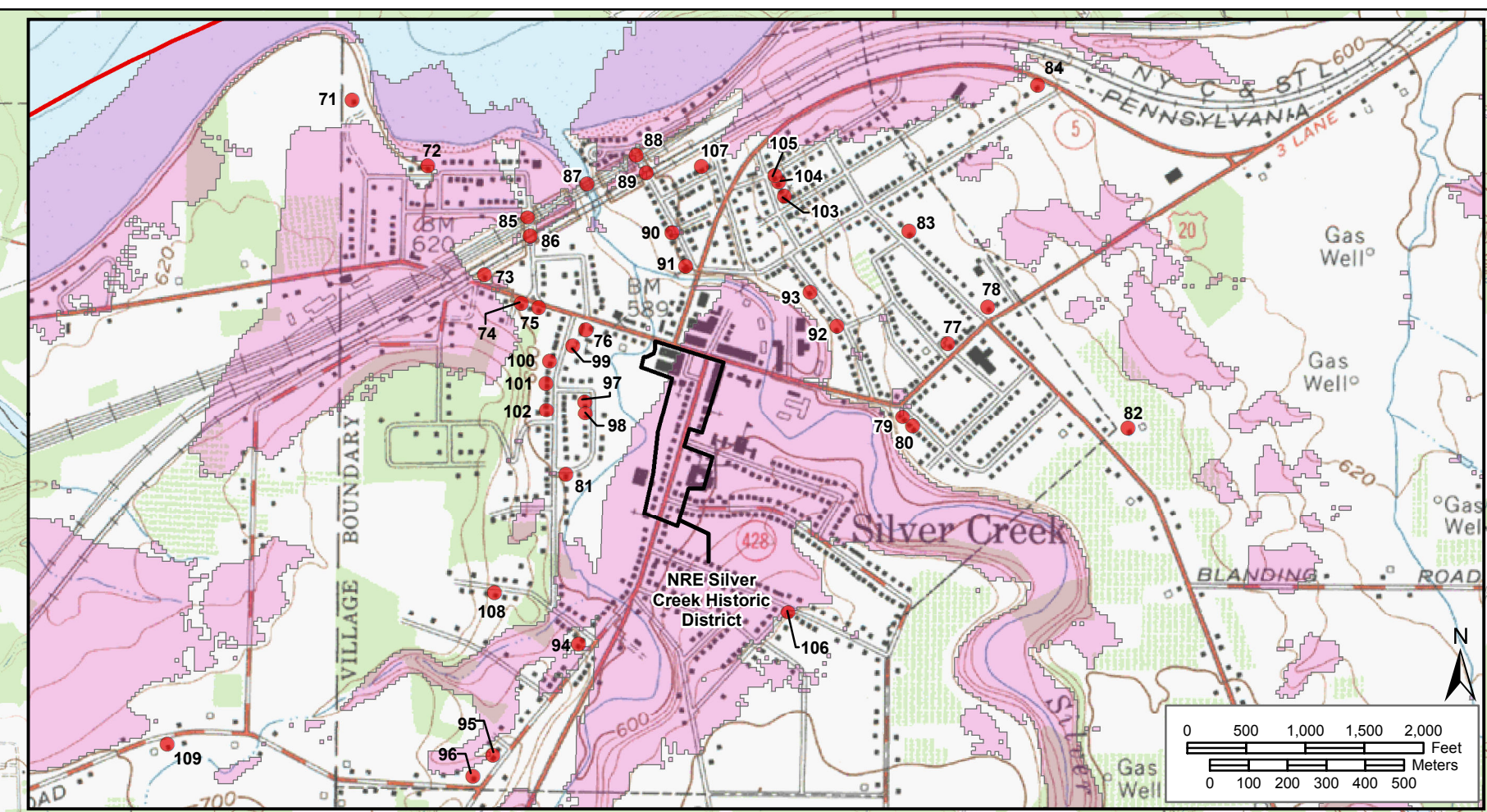
- Turbine
- Identified Property (2008 investigation and 2013 addendum)
- Architectural APE (Five miles from turbines)
- No turbines visible
- Transmission Line
- One-half and Three miles from turbines

Base maps are USGS 7.5-minute series: Cassadaga 1971(1964); Cherry Creek 1971(1964); Dunkirk 1971(1964); Farnham 1969; Forestville 1971(1964); Gowanda 1971(1964); Hamer 1971(1964); New Ashton 1971(1964); North Collins 1969; North of Dunkirk 1971(1964); Perrysburg 1971(1964); Silver Creek 1969

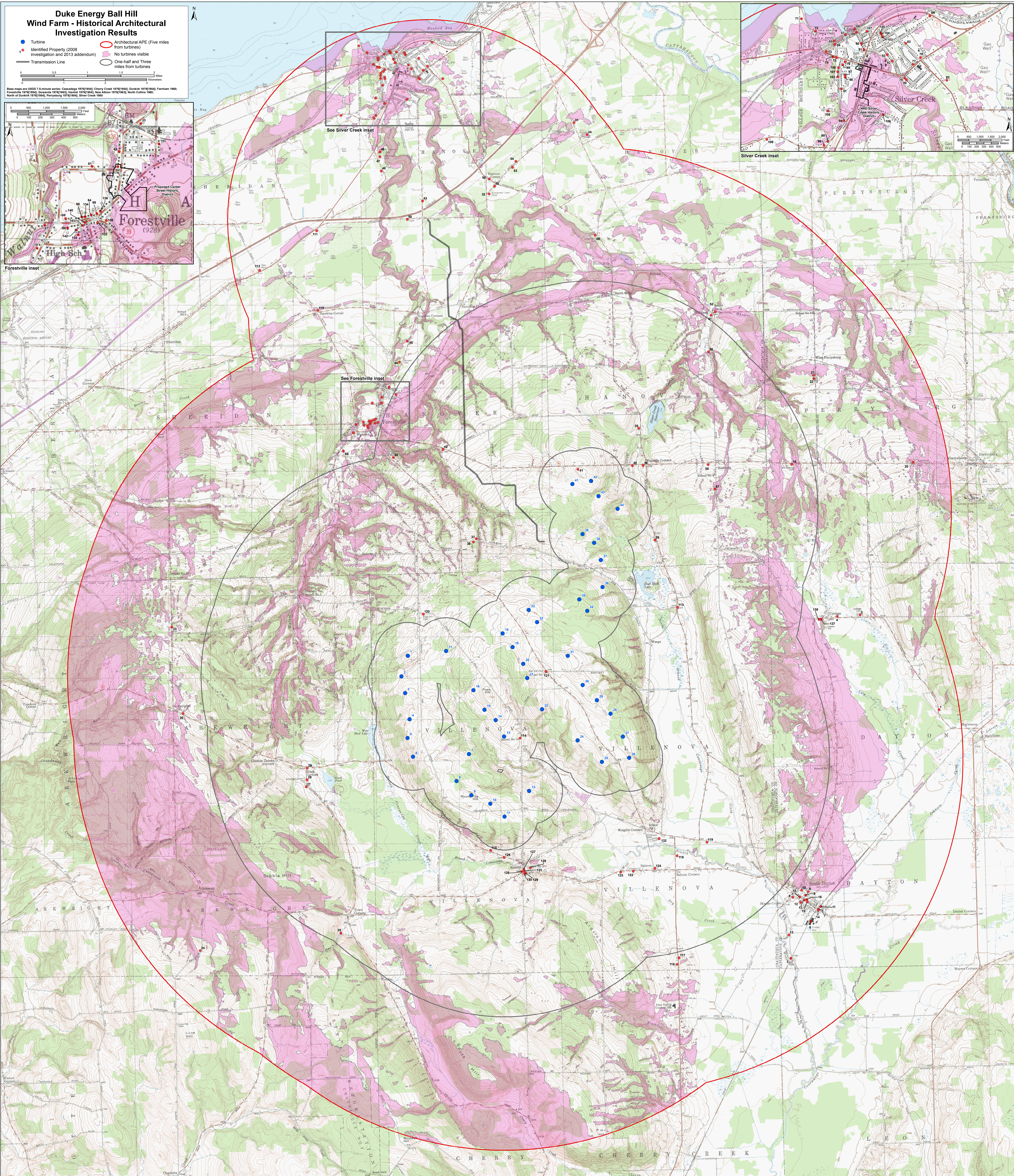


Forestville inset

See Silver Creek inset



Silver Creek inset



2015 Architectural Survey



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**ARCHITECTURAL SURVEY
FOR THE BALL HILL WIND PROJECT
TOWNS OF VILLENOVA AND HANOVER,
CHAUTAUQUA COUNTY, NEW YORK**

ADDENDUM #2

OPRHP#08PR01814

Prepared for:

**ECOLOGY & ENVIRONMENT, INC.
368 Pleasant View Drive
Lancaster, New York 14086**

Prepared by:

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December 2015

**ARCHITECTURAL SURVEY
FOR THE BALL HILL WIND PROJECT
TOWNS OF VILLENOVA AND HANOVER,
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OPRHP #08PR01814

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Prepared by:

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December 2015

Management Summary

SHPO Project Review Number: #08PR01814

Involved State and Federal Agencies: U.S. Army Corps of Engineers, New York State Department of Environmental Conservation, Public Service Commission

Phase of Survey: Addendum Phase 1 historic architectural resources survey

Project Location Information

Location: see minor civil division below

Minor Civil Division: Towns of Villenova (MCD 01326) and Hanover (MCD 01314)

County: Chautauqua

Five-mile Ring Information

Minor Civil Division: Towns of Arkwright (MCD 01301), Charlotte (MCD 01304), Cherry Creek (MCD 01306), Hanover (MCD 01314), Sheridan (MCD 01323), and Villenova (MCD 01326), and the villages of Forestville (MCD 01352), Silver Creek (MCD 01346), Chautauqua County; and Towns of Dayton (MCD 00906), Leon (MCD 00917), and Perrysburg (MCD 00926), and the villages of Perrysburg (MCD 00951) and South Dayton (MCD 00954), Cattaraugus County

Counties: Chautauqua and Cattaraugus

Number of Proposed Turbines: 36

Architectural Survey Area:

Total area surveyed: The current total within the five-mile buffer of the Ball Hill turbines and the and three-mile buffer of the Project's transmission line is 170.7 square miles; 76.1 percent of which, or 129.9 square miles, makes up the Visual APE.

USGS 7.5-Minute Quadrangle Maps (all New York): Archaeological Investigation: Forestville (1979); **Architectural Investigation:** Cassadega (1976), Cherry Creek (1976), Dunkirk (1979), Farnham (1960), Forestville (1979), Hamlet (1976), Perrysburg (1976), and Silver Creek (1960)

Results of Architectural Survey

Number of previously determined NR-listed or –eligible buildings/structures/cemeteries/districts in the 5-mile Visual Area of Potential Effect (APE):

- National Register-listed properties: None
- Individual National Register-eligible (NRE) properties: 163

Number of Historic Districts with “Undetermined” NRHP Status: 2

- 1) Silver Creek Historic District (approximately 35 contributing properties, number of non-contributing is unknown) four were recommended contributing properties to the Silver Creek Historic District.
- 2) Center Street Historic District in Forestville, which consists of 14 primary buildings (13 contributing resources and one non-contributing resource).

Number of recommended NRE buildings/structures/cemeteries/districts in the 5-mile Visual APE 2015 Addendum: None

Report Author(s): C. Longiaru, M. Steinback, D. Smith, and M. Cinquino.

Date of Report: December 2015

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1.0 Introduction

1.1 PROJECT DESCRIPTION

Panamerican Consultants, Inc. (Panamerican) was contracted by Ecology & Environment, Inc. (E&E), Lancaster, New York, to complete an historic architectural resources survey addendum for the proposed Ball Hill Wind Energy, LLC project (Ball Hill Wind Project), a wind-energy project proposed in the Towns of Hanover and Villenova, Chautauqua County, New York (Figure 1.1). The entire 2015 five-mile buffer (turbines) and three-mile buffer (transmission line) encompasses 171 square miles; 76 percent of which, or 130 square miles, comprise the visual Area of Potential Effect (APE; Figure 1.2). Two previous historic architectural resources studies were completed for earlier configurations of the Project. In 2008 Panamerican completed the initial historic buildings survey of the five-mile visual APE (Longiaru et al. 2008), and in 2013 an archaeological and architectural assessment addendum was submitted to the New York State Historic Preservation Office (NYSHPO) (Smith et al. 2013 [Figure 1.3]). The 2015 Ball Hill Wind Project Addendum addresses the current Project layout and includes an updated five-mile visual APE study area that accounts for changes to the 2013 study area (i.e., new areas in the current Project's five-mile visual APE).

The Project includes wind-energy generation and transmission components. The generation component (i.e., wind turbines and their auxiliary facilities [access roads, an electrical collection network, construction laydown areas, and an operations and management facility]) will be constructed in the towns of Villenova and Hanover and the transmission component (i.e., an electrical transmission line with its ancillary facilities [access roads, a switchyard, and a substation]) will be in the Town of Hanover. The total physical APE for the current project is approximately 355 acres. It includes 36 wind turbines with a capacity to produce approximately 80-90MW of electricity; the APE for each turbine covers 3.65 acres. The generation project's linear components (access roads and electrical collection lines) total 123,437 feet (37,648 meters / 23.4 miles) in length and have APEs that range from 25 to 40 ft (7.6 to 12.2 m) wide; the construction laydown areas total 26 acres (the operations and management [O&M] facility lies entirely inside the APE for one of the laydown areas). The Project's transmission line is 31,154 ft (9,502 m / 5.9 miles) in length and has a 120-ft (3.6-m)-wide APE / right-of-way (ROW). Its switchyard covers 5.4 acres and the substation covers 1.9 acres. Finally, the transmission portion of the Project also includes a series of access roads, all but 1.5 acres of which are located within the transmission line's ROW.

The purpose of the 2015 architectural survey addendum is to identify National Register Listed/Eligible (NRL/NRE) properties in the current Project's five-mile visual APE study area.¹ This addendum addresses newly identified areas in the current visual APE that were previously not covered by earlier investigations (i.e., new locations containing historic architectural resources now in the visual APE). The addendum includes an up-to-date analysis of the potential visual effect of the Project on historic architectural resources in the study area. Panamerican also completed a separate archaeological investigation for the current Project (Hanley et al. 2015).

Any National Register eligibility recommendations presented in the 2015 addendum report are preliminary and **not** considered final determinations of National Register eligibility. Final determinations will be made by NYSHPO. The historic building survey of the five-mile APE study area and the three-mile APE study area was conducted in compliance with NYSHPO *Wind Farm Guidelines* (2006).

Each of the historic architectural resources surveys completed by Panamerican in 2008, 2013, and 2015 were conducted in accordance with NYSHPO's *Guidelines for Wind Farm Development Cultural Resources Survey Work* (2006), and based on previous experience with conducting historic resources surveys for wind-energy projects. These investigations were completed in compliance with the New York

¹ Previously documented resources as identified in the original five-mile visual APE for the *Architectural Survey (Five-mile APE) for the Proposed Noble Ball Hill Windpark* (2008) and the 2013 addendum were not re-surveyed for the 2015 addendum.

State Historic Preservation Act, the State Environmental Quality Review Act, the National Historic Preservation Act, and the National Environmental Policy Act, as well as all relevant state and federal legislation. Panamerican completed the historic architectural resources field survey in November 2015. Ms. Christine M. Longiaru, M.A., served as Principal Investigator for the architectural evaluation. The project team included Senior Historian Mr. Mark A. Steinback, M.A.; Dr. Donald A. Smith, RPA, as Geographic Information Analyst. Project Director/Senior Archaeologist Dr. Michael A. Cinquino, RPA; and Senior Preservation Planner/Senior Archaeologist Dr. Frank J. Schieppati, RPA.

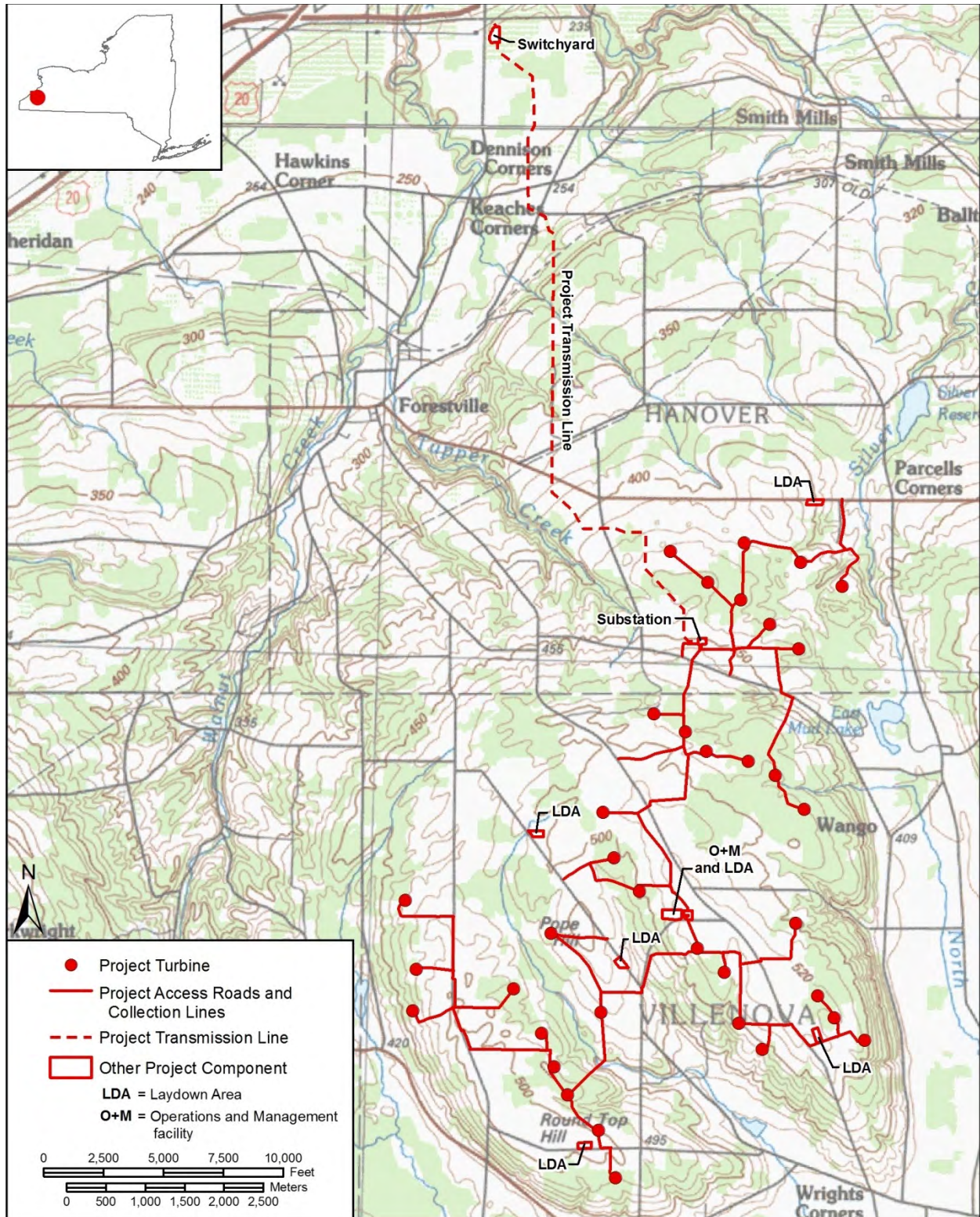


Figure 1.1. The approximate location of the Ball Hill Wind Project in the Towns of Hanover and Villenova, Chautauqua County, New York (USGS 100k Series Topographic: Jamestown, NY-Pennsylvania (1988 [1986]); Silver Creek, NY-Pennsylvania-Ontario (1986)).

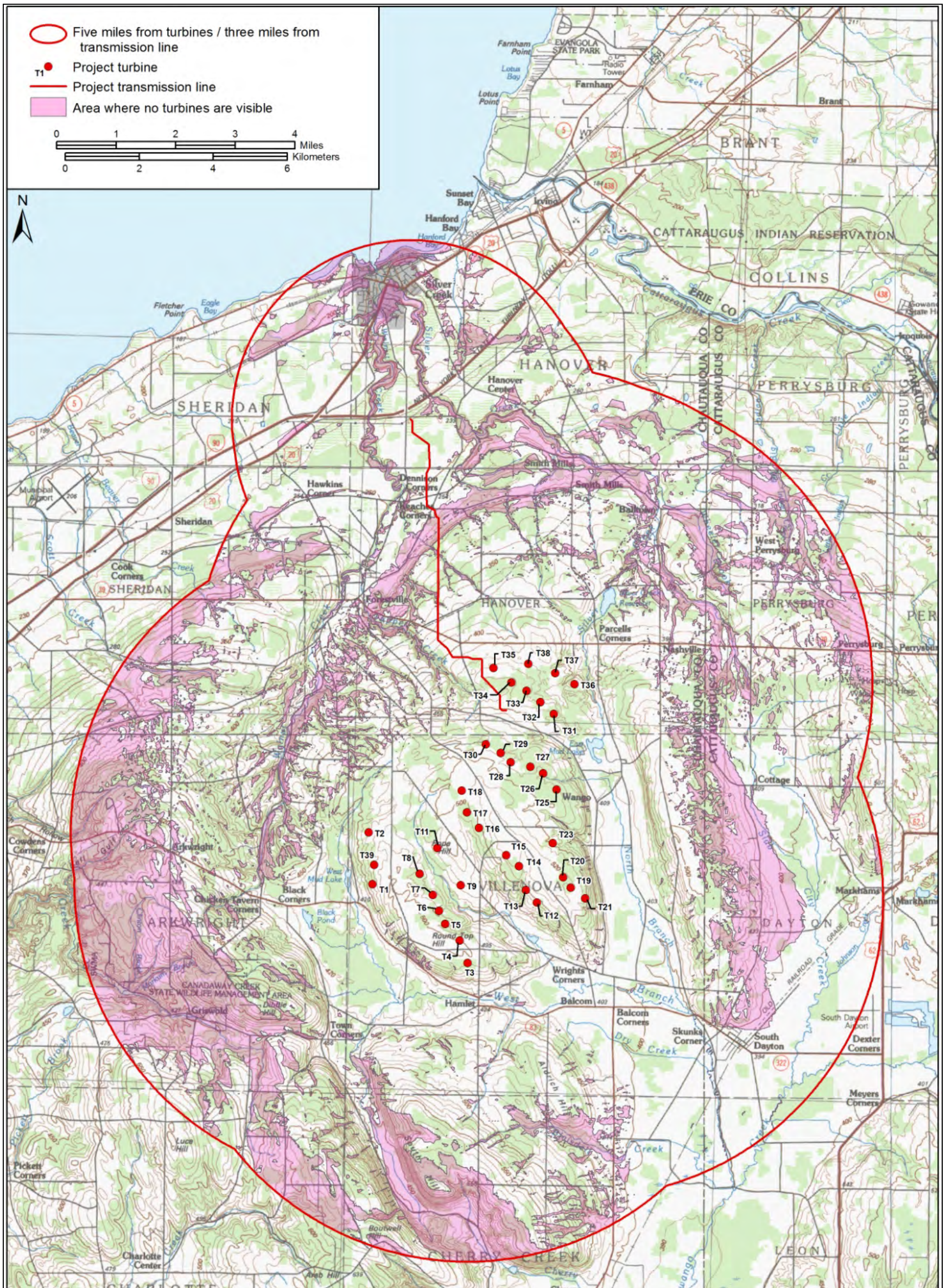


Figure 1.2. Ball Hill 2015 Addendum historic architectural resources visual APE (base map sources: USGS 100k Series Topographic: Buffalo, NY 1984; Jamestown, NY 1988 [1986]; Olean, NY 1986; Silver Creek, NY 1986).

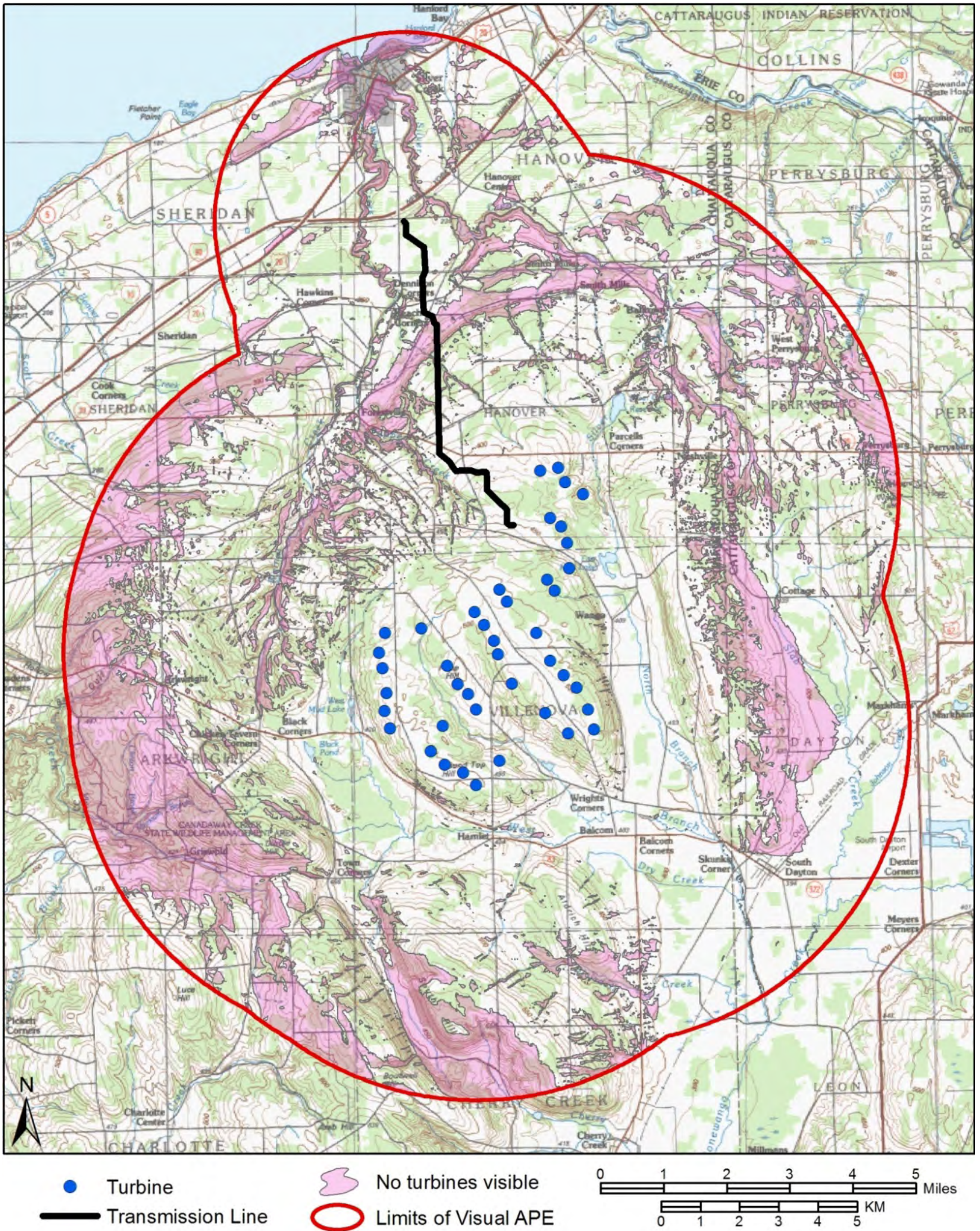


Figure 1.3. Ball Hill 2013 architectural / visual APE (base map sources: USGS 100k Series Topographic: Buffalo, NY 1984; Jamestown, NY 1988 [1986]; Olean, NY 1986; Silver Creek, NY 1986).

2.0 Historic Architectural Resources Summary

For this investigation, the visual APE is defined as the area from which the proposed undertaking may be visible within a five-mile distance around the outer ring of proposed turbine locations and three miles from the proposed transmission line (see Figure 1.2). Within this area both direct and indirect visual effects are assessed that may cause changes in the character or use of cultural properties. Panamerican generated the viewshed analysis map of the five-mile visual APE based solely on topography (NYSHPO 2006; see Appendix A). Additional screening may be provided by existing buildings and vegetation. The positive visual APE spans northwestern Cattaraugus County and northeastern Chautauqua County.

The current Project's five-mile visual APE has significant overlap in area with that of a previously proposed layout for the Project, Noble Ball Hill Windpark and Transmission Line (NYS Office of Parks, Recreation, and Historic Preservation [OPRHP] #08PR01814). In 2008, Panamerican conducted a reconnaissance-level historic buildings survey of the five-mile APE for the originally proposed project (Longiaru et al. 2008 [#08PR01814]). NYSHPO reviewed the 2008 report recommendations and provided final National Register of Historic Places (NRHP) evaluations (Bonafide 2008). A list of all NRE properties in the current Project viewshed previously documented by Panamerican and evaluated by NYSHPO in 2008 is included in this addendum report (Table 2.1, below).

2.1. PREVIOUS INVESTIGATIONS

Four historic architectural resources studies for wind-energy projects were previously conducted in and partially within the Project's five-mile visual APE study area (Longiaru et al. 2008 [Ball Hill]; Smith et al. 2013 [Ball Hill]; Sexton and Toner 2009 [Arkwright Summit]; and EDR 2015 [Cassadaga]). Three of the previous historic architectural resources surveys identified NRE resources within the current Project's visual APE. These surveys included identification of all historical architectural resources previously determined listed or eligible the S/NRHPs, as well as newly documented resources.

The original 2008 survey for Ball Hill Wind Project identified 132 individual NRE properties and one NRE historic district—Ewing Park South Dayton Historic District (13 contributing and one non-contributing properties [Longiaru et al. 2008]). Note, CRIS does not list the Ewing Park South Dayton Historic District; resources in this previously recommended district are recognized as individual resources in CRIS and not as a district. The majority of resources identified in the original 2008 survey were nineteenth-century residences. These NRE resources reflect the rural agricultural heritage of the region as represented by large farm complexes historically consisting of farm houses, farm buildings, and agricultural fields. Commercial, municipal, religious, and industrial buildings were found in the villages of Forestville, Silver Creek, and South Dayton. In addition, seven bridges were documented in the 2008 survey (Map Points 2 [in Dayton], 60 [in Forestville], and 85-89 [in Silver Creek]). NYSHPO assigned an "Undetermined" NRHP status for each of these structures (Bonafide 2008). The seven bridges have not been assigned OPRHP unique site numbers (USNs).

An historic architectural resources investigation of a five-mile ring study area for the Arkwright Summit Wind Farm in Arkwright, Chautauqua County, was completed in 2009 (Sexton and Toner 2009). The Arkwright Summit Wind Farm study area partially overlapped the five-mile visual APE for the 2008 proposed project layout (Longiaru et al. 2008). Slight differences between the 2008 and 2009 viewsheds in some locations accounted for duplicate documentation of historic resources by these two studies.

In 2013 Panamerican submitted an addendum cultural resources investigation for a second proposed project layout (Smith et al. 2013; OPRHP #08PR01814). The 2013 five-mile visual APE had significant overlap with the 2008 visual APE. The total area within five miles of the Project turbines in 2013 was 169.4 sq miles, of which turbines were visible from 128.8 sq miles. Several new locations in the 2013 addendum study area required further investigation for historic architectural resources.

The 2013 addendum survey recommended eight individual properties and one historic district (Center Street Historic District in Forestville, Chautauqua County [USN 01352.000127] Map Points F1 to F14) as NRE. The 2013 addendum survey also recommended consideration of additional contributing properties to the Silver Creek Historic District (USN 01346.000242; Map Points SC2 to SC6). One of the individual properties recommended as a contributing resource to the Silver Creek Historic District—The Geitner Theatre (The Blackline) at 19 Park Place (Map Point SC5)—was also recommended as an individual NRE property. For continuity in project review and reference, the 2013 addendum survey report retained Map Points assigned to historic architectural resources in the 2008 report.

2.2 Previously Identified Historic Architectural Resources

Panamerican utilized NYSOPRHP's Cultural Resources Information System (CRIS) to identify previously inventoried historic resources and historic districts located within a five-mile buffer around the Project. Any new information obtained from CRIS for previously documented resources in 2008 and 2013 (i.e., USNs, street addresses, resource names, etc.) were amended for this addendum. (The 2008 and 2013 reports were completed prior to the development of OPRHP's CRIS website.)

The following is a summary of findings for previously identified historic architectural resources in the Project's visual APE.

- No State/National Register Listed properties.
- 163 individual State/National Register Eligible resources.
- Two historic districts with "Undetermined" NRHP status.

The results of the CRIS search for NRE resources are enumerated in Table 2.1. The table includes the original map numbers assigned in the 2008 report for consistency and cross referencing with the earlier reports. Map Points 1 through 132 reference those resources previously documented in 2008. Map Points SD1 through SD14 were originally assigned to properties that were recommended in Ewing Park Historic District (Longiaru et al. 2008). Map Points 137 through 143 and SC 2 through 6 were identified in the 2013 addendum study. Locations of identified resources are indicated on the project study area map (see Appendix A). Note, line items in Table 2.1 identified in bold and by an asterisk indicate properties in the viewshed of the Project transmission line. Missing map points in Tables 2.1 and 3.1 (Visual Impacts section) indicate those resources that are no longer included in the visual APE as a result of either their absence in CRIS or their change in NRHP status.

The Silver Creek Historic District in the Village of Silver Creek, Town of Hanover, Chautauqua County, presently has an "Undetermined" NRHP status (USN 01346.000242). A small portion of the district lies within the 2015 visual APE. Properties in the Silver Creek Historic District were not located in the 2008 visual APE. The Silver Creek Historic District is centered on Main Street (U.S. Route 20) at the historic crossroads of the village. At present, the boundaries of Silver Creek Historic District are not formally delineated. Properties in the district were initially surveyed in the 1990s as part of a cultural resources reconnaissance survey conducted for a New York State Department of Transportation (NYSDOT) project. Based on property location information provided in CRIS, the approximate boundaries of Silver Creek Historic District include a roughly three-block section of Main Street (U.S. Route 20) from Central Avenue (NY Route 5) to Robinson Street; the Village Park bound by Park Place, Main Street, and Central Avenue; and an approximately 316-ft section of Central Avenue (NY Route 5) from Main Street to 199-201 Central Avenue. The historic district comprises approximately 39 properties dating from the mid-nineteenth century through the early twentieth century, the majority of which are residential. Other property types include: a village park, commercial buildings, religious buildings, a post office, and a school. Formal identification and delineation of the Silver Creek Historic District was beyond the scope of the 2013 addendum survey. The current study addresses the portion of Silver Creek Historic District in

the 2015 Project's visual APE. Map Points assigned to properties in the Silver Creek Historic District are SC2 through SC6 (see Table 2.1).

The Center Street Historic District in the Village of Forestville, Town of Hanover, Chautauqua County, presently has an "Undetermined" NRHP status (USN 01352.000127; CRIS 2015). The district consists of 14 primary buildings (13 contributing resources and one non-contributing resource) and ten outbuildings. All of the buildings in the proposed district are residential with the exception of St. Rose of Lima Church. The boundaries of the Center Street Historic District include a roughly one-block stretch of Center Street, from the intersection with Pearl Street to Cedar Street. Residential buildings on this section of Center Street represent a cohesive, largely intact example of Forestville's nineteenth-century architectural heritage, which includes examples of Greek Revival, transitional Greek/Italianate, Italianate, Gothic/Italianate, and Queen Anne styles, as well as early twentieth-century styles (e.g., Craftsman). Map Points assigned to properties in the Center Street Historic District are F1 through F14 (see Table 2.1).

Ewing Park South Dayton Historic District, South Dayton, Cattaraugus County, is not identified as a district (CRIS 2015). As recommended in 2008, the district had 13 contributing and one non-contributing properties (Longiaru et al. 2008). Ewing Park Historic District is an approximately 3.7-acre (161,203-sq ft) area bound by Park Street on the west, the Erie Railroad tracks on the east, Maple Street on the north, and Pine Street on the south. Map Points for properties in the Ewing Park Historic District are SD1 through SD14, as per the 2008 report.

Changes in CRIS were noted for a few properties since the 2013 addendum was submitted. Weaver Cemetery on Center Road in Arkwright (Map Point 23) was previously determined NRE; the cemetery is presently not listed in CRIS (Bonafide 2008). Ewing Park in South Dayton (USN 00954.000043/ Map Point SD10) was previously recommended as a contributing resource to the South Dayton Historic District; it presently has an undetermined NRHP status in CRIS (Longiaru et al. 2008; Smith et al. 2013). St. Peter's Episcopal Church on Park Street in Forestville was previously recommended as NRE and is not presently in CRIS (2013 addendum Map Point 142). In 2013 the church had an undetermined status (USN 01352.000002). Seven bridges were previously documented in 2008, and included in the 2008 and 2013 survey reports (see Table 2.2). However, these structures have not been assigned USNs or entered into CRIS.

| Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015). ² | | | | | | | |
|---|--------------------------------|--|-------------|-----------------------------|-----------------------|-----------------|-------------------------|
| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
| 1 | | 12182 Markhams Road | Cattaraugus | Dayton | NRE | 00906.000086 | No GIS location in CRIS |
| 3 ³ | Cottage Cemetery | Cottage Road, north side, west of Edwards Corners Road | Cattaraugus | Dayton | NRE | 00906.000089 | |
| 4 | Residential, c.1860 | 12654 Cottage Road | Cattaraugus | Dayton | NRE | 00906.000090 | |
| 5 | Residential, c.1930 | 27 Cherry Street | Cattaraugus | Dayton | NRE | 00906.000091 | |
| 6 | Factory Building | East Railroad Avenue, at south end | Cattaraugus | South Dayton (V) | NRE | 00954.000048 | |
| 7 | Residential, c.1870 | 73 East Railroad Avenue | Cattaraugus | South Dayton (V) | NRE | 00954.000049 | |
| 8 | Residential, c.1860 | 62 Main Street | Cattaraugus | South Dayton (V) | NRE | 00954.000050 | |
| 9 | Residential, c.1890 | 203 Maple Street | Cattaraugus | South Dayton (V) | NRE | 00954.000051 | |
| 10 | Residential, c.1910 | 212 /214 Maple Street | Cattaraugus | South Dayton (V) | NRE | 00954.000052 | |
| 11 | Harry Austin Milling Co., 1883 | Mill Street, between tracks, east side, north of Pine Street | Cattaraugus | South Dayton (V) | NRE | 00954.000053 | |

² **Key for Table 2.1.** USN=NYSOPRHP Unique Site Number; S/NRHP= State/National Registers of Historic Places; and Address: n/a = No locational information available for property in CRIS. Note, line items in bold and identified by an asterisk indicate properties in the viewshed of the project transmission line.

³ Note, missing map points indicate those resources that are no longer included in the visual APE as a result of either their absence in CRIS or their change in NRHP status.

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|---------------------------------------|---|---------------|--|-------------------------------|------------------------|---------------------|
| 12 | Residential, c.1860 | 227 Oak Street | Cattaraugus | South Dayton (V) | NRE | 00954.000054 | |
| 13 | Sears Farmhouse & Complex, c.1920 | 8143 Oaks Road | Cattaraugus | South Dayton (V) | NRE | 00954.000055 | |
| 14 | Corkwell's Garage | 107 Pine Street | Cattaraugus | South Dayton (V) | NRE | 00954.000007 | |
| 15 | Residential, c.1910 | 309 Pine Street | Cattaraugus | South Dayton (V) | NRE | 00954.000057 | |
| 16 | Residential, c.1900 | 312 Pine Street | Cattaraugus | South Dayton (V) | NRE | 00954.000058 | |
| 17 | Residential, c.1890 (Wilson House) | 319 Pine Street | Cattaraugus | South Dayton (V) | NRE | 00954.000060 | |
| 18 | Commercial, c.1920 | 413 Pine Street | Cattaraugus | South Dayton | NRE | 00954.000061 | |
| 19 | Perrysburg Cemetery | NY 39, west of West Perrysburg Road | Cattaraugus | Perrysburg | NRE | 00926.000040 | |
| 20 | Residential, c.1860 | 12316 NY 39 | Cattaraugus | Perrysburg | NRE | 00926.000041 | |
| 21 | Rugg-town West Perrysburg Cemetery | West Perrysburg Road, west side, north of NY 39 | Cattaraugus | Perrysburg (West Perrysburg [H]) | NRE | 00926.000042 | |
| 22 | Farm Complex, 1939 | 10929 West Perrysburg Road | Cattaraugus | Perrysburg (West Perrysburg [H]) | NRE | 00926.000043 | |
| 24 | Residential, 1847 | 8129 Griswold Road | Chautauqua | Arkwright | NRE | 01301.000022 | |
| 25 | Rose Farm, c.1870 | 1936 Ruttenbur Road | Chautauqua | Arkwright | NRE | 01301.000023 | |
| 26 | Residential, c.1915 | 2667 NY 83 | Chautauqua | Arkwright (Arkwright [H]) | NRE | 01301.000024 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|--|--|-------------------|--------------------------------------|-------------------------------|------------------------|---|
| 27 | Farmstead, c.1850 (Wooley Farm Complex) | 8903 Farrington Hollow Road | Chautauqua | Arkwright (Blacks Corners [H]) | NRE | 01301.000033 | Resource type is "Building"; in CRIS as "Archaeology" resource |
| 28 | Arkwright Summit Cemetery | Farrington Hollow Road, east side, south of NY 83 | Chautauqua | Arkwright (Blacks Corners [H]) | NRE | 01301.000034 | Resource type is "Building"; in CRIS as "Archaeology" resource |
| 29 | Farm Complex, c.1870 Barns / Pre-Civil War House (Maple-Camp Farm / Black Farm) | 2083 NY 83 | Chautauqua | Arkwright (Blacks Corners [H]) | NRE | 01301.000027 | |
| 30 | Residential, c.1850 | 10917 Alleghany Road | Chautauqua | Hanover | NRE | 01314.000060 | |
| *31 | Residential, c.1895 | 12168 Alleghany Road | Chautauqua | Hanover | NRE | 01314.000061 | |
| 32 | Evergreen Cemetery | Angell Street, south side, east of Denison Road | Chautauqua | Hanover | NRE | 01314.000062 | |
| 33 | Forestville Depot | Center Street, NE corner Erie Street | Chautauqua | Hanover | NRE | 01314.000063 | |
| *34 | Christy Road Cemetery | Christy Road, north side, east of Allegany Road | Chautauqua | Hanover | NRE | 01314.000064 | |
| 35 | Residential, c.1860 | Hanover Road, West side, south of Hopper Road | Chautauqua | Hanover | NRE | 01314.000065 | |
| 36 | Livermore Homestead- Farm Complex, c.1840 | 10079 Hanover Road | Chautauqua | Hanover | NRE | 01314.000066 | |
| 37 | Swift Cemetery | Hurlburt Road | Chautauqua | Hanover | NRE | 01314.000092 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|--|--|-------------------|--------------------------------------|-------------------------------|------------------------|--|
| 38 | Residential, c.1850 | Hurlburt Road, south side, east of Prospect Road | Chautauqua | Hanover | NRE | 01314.000067 | |
| 39 | Residential, c.1870 | 469 NY 39 | Chautauqua | Hanover | NRE | 01314.000069 | |
| 40 | Residential, c.1890 | 503 NY 39 | Chautauqua | Hanover | NRE | 01314.000070 | |
| 41 | Residential, c.1860 | 675 NY 39 | Chautauqua | Hanover | NRE | 01314.000071 | |
| 42 | Residential, c.1840 | 1411 NY 39 | Chautauqua | Hanover | NRE | 01314.000072 | |
| 43 | | 11776 Bennett State Road | Chautauqua | Hanover | NRE | 01314.000056 | |
| 44 | Forestville Pioneer Cemetery | Bennett State Road, south of 11051 | Chautauqua | Hanover | NRE | 01314.000090 | |
| 45 | Residential, c.1870 | 11103 Bennett State Road | Chautauqua | Hanover | NRE | 01314.000074 | |
| *46 | Mt. Carmel Cemetery, 1926 | Old Main Street | Chautauqua | Hanover | NRE | 01314.000075 | |
| *47 | Glenwood Cemetery, c.1810 | Old Main Street | Chautauqua | Hanover | NRE | 01314.000076 | |
| *48 | Residential, c.1910 | 11935 Old Main Street | Chautauqua | Hanover | NRE | 01314.000077 | |
| 49 | Forestville Cemetery (Prospect Cemetery) | Prospect Street, east side, south of Forestville Village | Chautauqua | Hanover | NRE | 01314.000089 | |
| 50 | Doty Cemetery | Stebbins Road, South side, west of Old Forestville Road | Chautauqua | Hanover | NRE | 01314.000079 | |
| 51 | Residential, c.1810 — Check SHPO's date | 11037 Alleghany Road | Chautauqua | Hanover (Balltown [H]) | NRE | 01314.000080 | CRIS locates property at 1037 Alleghany Road |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|---|--|---------------|--------------------------------------|-------------------------------|------------------------|--------------------------------------|
| 52 | Balltown Cemetery | Mackinaw Road, north side at Allegany Road | Chautauqua | Hanover (Balltown [H]) | NRE | 01314.000081 | |
| 53 | Residential, c.1915 | 12010 Angell Road | Chautauqua | Hanover (Hanover Center [H]) | NRE | n/a on SPHINX | CRIS locates property on Abgell Road |
| 54 | Residential, c.1905 | 12021 Angell Road | Chautauqua | Hanover (Hanover Center [H]) | NRE | n/a on SPHINX | CRIS locates property on Abgell Road |
| 55 | Farmstead, c.1890 | 967 Hanover Road | Chautauqua | Hanover (Hanover Center [H]) | NRE | 01314.000084 | |
| 56 | Residential, c.1920 | 11991 Hanover Road | Chautauqua | Hanover (Hanover Center [H]) | NRE | 01314.000085 | |
| 57 | Nashville Cemetery | Alleghany Road | Chautauqua | Hanover (Nashville [H]) | NRE | 01314.000086 | |
| 58 | Church, c.1850 | NY 39, south side, west of Allegany Road | Chautauqua | Hanover (Nashville [H]) | NRE | 01314.000087 | |
| 59 | Smith's Mill Cemetery | Hanover Road, West side at York Road | Chautauqua | Hanover (Smith Mill [H]) | NRE | 01314.000088 | |
| 61 | Residential, c.1860 | 13 Cedar Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000098 | |
| 63 | Residential, c.1870 | 28 Center Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000100 | |
| 64 | Commercial, c.1870 | 11-15 Main Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000047 | |
| 65 | Residential, c.1830 (Cyrus D. Angell House) | 26 Main Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000103 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|---|--------------------------------------|---------------|--------------------------------------|-------------------------------|------------------------|---------------------|
| 66 | Commercial, c.1870 | 27 Main Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000105 | |
| 67 | Residential, c.1860 (former church) | 32 Main Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000058 | |
| 68 | Residential, c.1812 | 43 Main Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000065 | |
| 69 | Commercial, c.1860 | 2 Pearl Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000101 | |
| 70 | Residential, c.1830 | 9 Water Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000102 | |
| 71 | Clark Mansion on Lighthouse Point, c.1900 | Beachview Avenue, facing the lake | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000200 | |
| 72 | Residential, c.1930 | 10 Beachview Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000201 | |
| 73 | Residential, c.1830 | 130 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000008 | |
| 74 | Residential, c.1870 | 147 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000202 | |
| 75 | Structure 414 (Residence Tew- Babcock-Livermore House) | 151 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000129 | |
| 76 | Our Lady of Mt. Carmel | 165 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000006 | |
| 77 | Residential, c.1915 | 338 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000037 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|----------------------|-----------------------|---------------|--------------------------------------|-------------------------------|------------------------|---------------------|
| 78 | Residential, c.1915 | 350 Central Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000043 | |
| 79 | Residential, c.1870 | 5 Christy Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000202 | |
| 80 | Residential, c.1910 | 9 Christy Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000204 | |
| 81 | Residential, c.1915 | 4 Dana Drive | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000205 | |
| 82 | Farmstead | 12370 Hanover Road | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000206 | |
| 83 | Residential, c.1915 | 16 Hanover Road | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000207 | |
| 90 | Residential, c.1890 | 6/8 Lake Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000208 | |
| 91 | St. Alban's Church | 38 Lake Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000158 | |
| 92 | Residential, c.1870 | 18 Oak St | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000209 | |
| 93 | Residential, c.1860 | 30 Oak St | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000210 | |
| 94 | Residential, c.1915 | 117 Old Main St | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000211 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|------------------------------------|--|---------------|--------------------------------------|-------------------------------|------------------------|---------------------|
| 95 | Residential, c.1915 | 151 Old Main Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000212 | |
| 96 | Residential, 1850 | 155 Old Main Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000227 | |
| 97 | Residential, c.1910 | 1 Oliver Place | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000213 | |
| 98 | Residential, c.1915 | 5 Oliver Place | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000214 | |
| 99 | Residential, 1914 (Swift House) | 6 Parkway Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000215 | |
| 100 | Residential, c.1930 | 9 Parkway Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000216 | |
| 101 | Residential, c.1900 | 17 Parkway Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000217 | |
| 102 | Erbin House, c.1905 – 27 | 27 Parkway Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000005 | |
| 103 | Trinity Lutheran Church, c.1880 | Porter Avenue, northeast side at Adams Porter Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000218 | |
| 104 | Church, c.1860 | Porter Avenue, south of 21 | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000219 | |
| 105 | Residential, c.1920 | 21 Porter Avenue | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000220 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|-----------------------------|--|---------------|--------------------------------------|-------------------------------|------------------------|---------------------|
| 106 | Residential, c.1915 | 45 Robinson Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000221 | |
| 107 | Residential, c.1860 | 16 Rumsey Street | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000222 | |
| 108 | Residential, c.1920 | 28 Ward Place | Chautauqua | Hanover (Silver Creek [V]) | NRE | 01346.000223 | |
| 109 | Residential, c.1860 | 1873 East Middle Road | Chautauqua | Sheridan | NRE | 01323.000050 | |
| 110 | Residential, c.1830 | 1980 King Road | Chautauqua | Sheridan | NRE | 01323.000051 | |
| 111 | Residential, c.1915 | 2023 Stebbins Road | Chautauqua | Sheridan | NRE | 01323.000052 | |
| 112 | Residential, c.1860 | 2248 Stebbins Road | Chautauqua | Sheridan | NRE | 01323.000053 | |
| 113 | Wheeler Cemetery, c.1848 | Hanover Road, East side | Chautauqua | Villanova | NRE | 01326.000065 | |
| 115 | Farm Complex, c.1870 | NY 83, South side, west of Hamlet | Chautauqua | Villanova | NRE | 01326.000066 | |
| 116 | Farm Complex, c.1920 | 8025 NY 83 | Chautauqua | Villanova | NRE | 01326.000067 | |
| 118 | Farm Complex, c.1860 | 8562 NY 83 | Chautauqua | Villanova | NRE | 01326.000068 | |
| 119 | Farm Complex, c.1830 | 307 Philips Road | Chautauqua | Villanova | NRE | 01326.000070 | |
| 120 | Pope Hill Cemetery | Pope Hill Road, south side, east of Round Top Road | Chautauqua | Villanova | NRE | 01326.000071 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|---|-----------------------------------|---------------|--------------------------------------|-------------------------------|------------------------|---------------------|
| 121 | Forestville Wesleyan Church Complex, c.1858, includes Cemetery & School | 9495 Prospect Road | Chautauqua | Villanova | NRE | 01326.000069 | |
| 122 | Farm Complex | 641 South Dayton Road | Chautauqua | Villanova | NRE | 01326.000072 | |
| 123 | Residential, c.1845 | 691 South Dayton Road | Chautauqua | Villanova | NRE | 01326.000073 | |
| 124 | Farm Complex, c.1890 (Dye Homestead) | 558 South Dayton-Hamlet Road | Chautauqua | Villanova | NRE | 01326.000016 | |
| 125 | Hamlet Cemetery | NY 83, south side, west of Hamlet | Chautauqua | Villanova | | 01326.000074 | |
| 126 | Residential, c.1840 | 1141 NY 83 | Chautauqua | Villanova | NRE | 01326.000041 | |
| 127 | Villanova Grange Hall | 1150 NY 83, west side | Chautauqua | Villanova | NRE | 01326.000075 | |
| 128 | Hamlet School District No. 2 | 8520 School Street | Chautauqua | Villanova | NRE | 01326.000078 | |
| 129 | Hamlet United Methodist Church, 1812 | 1119 South Dayton Road | Chautauqua | Villanova | NRE | 01326.000038 | |
| 130 | Residential, c.1870 | 1129 South Dayton Road | Chautauqua | Villanova | NRE | 01326.000039 | |
| 131 | Commercial, c.1905 (I.O.O.F.) | 1112 South Dayton Road, NY 83 | Chautauqua | Villanova | NRE | 01326.000040 | |
| 132 | Villanova Cemetery | Cemetery Road, east side. | Chautauqua | Villanova | NRE | 01326.000076 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|---|-----------------------|---------------|--------------------------------------|-------------------------------|------------------------|---------------------|
| SD2 | Wilson Hale & Co. | 1 Park Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000035 | |
| SD3 | Wilson Hale & Co./ Post Office | 5 Park Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000036 | |
| SD4 | Cattaraugus County Bank | 7 Park Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000037 | |
| SD5 | Gypsy Tea Room | 9 Park Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000038 | |
| SD6 | Commercial, c.1890 | 11 Park Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000039 | |
| SD7 | Commercial, c.1910 | 13 Park Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000040 | |
| SD8 | Commercial, c.1900 | 15 Park Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000041 | |
| SD11 | The Valley House/ South Dayton Hotel 1877 | 203 Pine Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000044 | |
| SD12 | Commercial, c.1930 | 205 Pine Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000045 | |
| SD13 | Commercial, c.1900 | 207 Pine Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000046 | |
| SD14 | South Dayton Depot | Railroad Street | Cattaraugus | Dayton (South Dayton [V]) | NRE | 00954.000047 | |
| 133 | Residential, c.1865-90 | 1 Lodi Street NY 39 | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000112 | |
| 134 | Commercial, c.1870 | 25 Main Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000106 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|----------------|------------------------------------|---------------------------|-------------------|--------------------------------------|-------------------------------|------------------------|---------------------|
| 135 | Forestville ME Church, 1861 | 3 Park Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000104 | |
| 136 | Residential, c.1890 | 4 Pearl Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000072 | |
| 137 | Grange Hall No. 829 | 12729 Cottage Road (CR 2) | Cattaraugus | Dayton (Cottage [h]) | NRE | 00906.000093 | |
| 138 | Cottage United Methodist Church | 12737 Cottage Road (CR 2) | Cattaraugus | Dayton (Cottage [h]) | NRE | 00906.000094 | |
| 139 | First Hose House | 2 Lodi Street / NY 39 | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000010 | |
| 140 | Commercial | 10 Main Street / NY 39 | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000046 | |
| 141 | Commercial | 14 Main Street / NY 39 | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000048 | |
| 143 | Residence, Italianate | 7 Third Street | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000116 | |
| *SC 2 | Commercial Building, c.1890 | 7 Park Place | Chautauqua | Silver Creek (V) | NRE | 01346.000238 | |
| *SC 3 | Commercial Building, c.1890 | 9 Park Place | Chautauqua | Silver Creek (V) | NRE | 01346.000239 | |
| *SC 4 | Commercial Building, c.1920 | 17 Park Place | Chautauqua | Silver Creek (V) | NRE | 01346.000240 | |
| *SC 5 | The Geitner Theatre, 1921 | 19 Park Place | Chautauqua | Silver Creek (V) | NRE | 01346.000237 | |
| *SC 6 | Commercial Building, c.1910 | 25 Park Place | Chautauqua | Silver Creek (V) | NRE | 01346.000241 | |
| F1 | Sherman House, c.1860 | 1 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000114 | |

Table 2.1. National Register Eligible Resources in Visual APE (CRIS 2015).²

| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet | S/NRHP Status 2015 | Unique Site No. | 2015 Comment |
|---------|-------------------------------------|----------------|------------|------------------------------|-----------------------|-----------------|---|
| F2 | Residence, c.1840 | 2 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000117 | |
| F3 | Residence, c.1840 | 4 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000118 | |
| F4 | Residence, c.1900 | 5 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000119 | |
| F5 | Residence, c.1850 | 6 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000094 | |
| F6 | Residence, c.1850 | 7 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000120 | |
| F7 | Residence, c.1840 | 8 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000121 | |
| F8 | Residence, c.1900 | 9 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000122 | |
| F9 | Levi J. Pierce Homestead, c.1840 | 10 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 1352.000123 | In CRIS also as USN 01352.000003 "Undet." NR Status |
| F10 | St. Rose of Lima Church | 11 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000124 | |
| F11 | Residence, c.1840 | 12 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000125 | |
| F12 | Residence, c.1905 | 16 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000126 | |
| F13 | Residence, c.1890 | 18 Center St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000099 | |
| F14 | Residence, c.1868- 1890 | 21 Pearl St | Chautauqua | Hanover (Forestville [V]) | NRE | 01352.000113 | |

| Table 2.2 Seven bridges previously documented in 2008 without NRHP determinations in CRIS. | | | | |
|---|---|--|---------------|----------------------------------|
| Map Pt. | Resource Name | Street Address | County | Town/ Village/ Hamlet |
| 2 | Erie Railroad Bridge over Cattaraugus Creek | Oaks Road, over Conewango Creek | Cattaraugus | Dayton |
| 60 | Bridge over Walnut Creek | Bradigan Road, south of Water Street | Chautauqua | Hanover (Forestville [V]) |
| 85 | Skew Arch Bridge | Jackson Street, over Jackson Street | Chautauqua | Hanover (Silver Creek [V]) |
| 86 | Nickel Plate Bridge over Jackson Street | Jackson Street, over Jackson Street | Chautauqua | Hanover (Silver Creek [V]) |
| *87 | Hanover Bridge | Jackson Street, between Lake at Jackson Street | Chautauqua | Hanover (Silver Creek [V]) |
| 88 | Stone Bridge | Lake Avenue, over Lake Avenue | Chautauqua | Hanover (Silver Creek [V]) |
| 89 | Nickel Plate Bridge over Lake Avenue | Lake Avenue, over Lake Avenue | Chautauqua | Hanover (Silver Creek [V]) |

2.3 2015 ADDENDUM FIELD INVESTIGATION

The 2015 Project's visual APE was compared with the 2008 and 2013 visual APEs to determine if any locations in the overlap area necessitated additional survey for historic architectural resources. Differing turbine heights and layouts are accounted for in the current visual APE. Changes in the viewshed were minimal; the small areas where turbines will be visible as a result of the current project layout that were outside of the 2008 and 2013 visual APEs were field inspected as part of this addendum study. Panamerican utilized spatial data from the previous surveys to identify NRE properties in the current project and assess visual impacts of the Project (see Section 3.0).

2.4 2015 ADDENDUM ARCHITECTURAL RESOURCES SURVEY RESULTS

A total of 163 identified historic architectural resources are located within the five-mile visual APE for the Ball Hill Wind Project. No new resources were identified in the 2015 addendum as National Register Eligible. There are no National Register Listed properties in the visual APE. The types of NRE historic resources include farm complexes, individual residences, commercial buildings, and cemeteries. Two historic districts with "Undetermined" NRHP Status are partially within the visual APE: the Center Street Historic District, Forestville; and the Silver Creek Historic District.

3.0 Visual Impacts to Architectural Resources

The study area is a five-mile radius around the proposed Project's turbines and a three-mile area around its transmission line. The Project is located in Chautauqua County. The towns included within the Project's five-mile visual APE primarily include portions of Dayton, Perrysburg, and a small section of Leon in Cattaraugus County, and Arkwright, Charlotte, Cherry Creek, Hanover, Villenova, and Sheridan in Chautauqua County (see Section 2.0). The total study area for the current project layout is 170.7 sq miles, of which turbines are visible from 129.9 sq miles (76.1 percent of the study area).

No structures or buildings will be demolished or physically altered in connection with the construction of the Project. Access to the surrounding historical, recreational, and commercial land uses will not be impeded by the Project.

The definition of visual impacts has historically been conceptually problematic. The New York State Department of Environmental Conservation (NYSDEC) defines *Visual Impact* as:

when the mitigating effects of perspective do not reduce the visibility of an object to insignificant levels. Beauty plays no role in this concept. A visual impact may also be considered in the context of contrast. For instance, all other things being equal, a blue object seen against an orange background has greater visual impact than a blue object seen against the same colored blue background. Again, beauty plays no role in this concept [NYSDEC 2000:10-11].

However, the difficulty lies in defining insignificant levels or in determining the levels of contrast that have an effect. Further, at what level of contrast does the effect become adverse? In the overall assessment, the multivariate natures of the NRL and NRE properties in the viewshed can be considered to a limited degree. In many instances, the setting of the property contributes to its eligibility while in other cases, it is less so or not at all important. In this analysis, the level of effect (visibility and contrast) is measured on the dataset as a whole—the National Register-listed and -eligible (and potentially eligible) properties within the viewshed (Table 3.1 [end]).

Based on the provided information, it is apparent that the Project will change the visible landscape of the region and create a distinct visual setting. The turbines will be unique and prominent visible features on the landscape in many locations where there are not or ever have been other types of vertical, man-made features. The Federal Aviation Administration (FAA)-required lighting on some of the turbines will also be visible from many locations. While there may be some screening afforded by mature trees, shrubbery and other plantings during the growing season, the prominent features of the turbines will be visible during periods of dormancy.

Another method for illustrating the degree of visual impact is based on categories suggested by the U.S. Forest Service. In this framework, the Project viewshed or visual APE is divided into zones of relative visibility based on geographical distance to the nearest turbine: Foreground (0-0.5 mile); Middle ground (0.5-3.0 miles); and Background (3.0 miles to horizon). Of the identified properties, five are situated such that proposed turbines are in the visual foreground (property nos./map points 41, 114, 115, 121 and 125), 65 are at locations where turbines would be in the visual middle ground, and 93 are situated such that proposed turbines are in the visual background (more than 3.0 miles from the structures) (Table 3.1; see Appendix A, the Historical Architectural Investigation Results map).

Within or immediately adjacent to the proposed wind project study area there are electrical distribution lines, telephone poles, water towers, and other vertical, modern visual intrusions. Most of these modern intrusions, to a certain extent, may have compromised some historical settings. Existing modern visual intrusions are relatively small compared to the 133- to 151-meter-tall wind turbines.

The proposed wind-energy Project will be prominently sited in the southern portion of Hanover and the northern half of Villenova. The most significant visual impacts will be on open farming land (rural agricultural landscapes), and any of the following that have open/clear views of the wind farm: historic

properties on ridges, cemeteries, historic properties within Hanover and Villenova, historic properties along major thoroughfares in the area, and at historic crossroads communities. The impacts to these resources vary with the surrounding topography, distance from the turbines, existing landscaping and vegetation, and surrounding land uses.

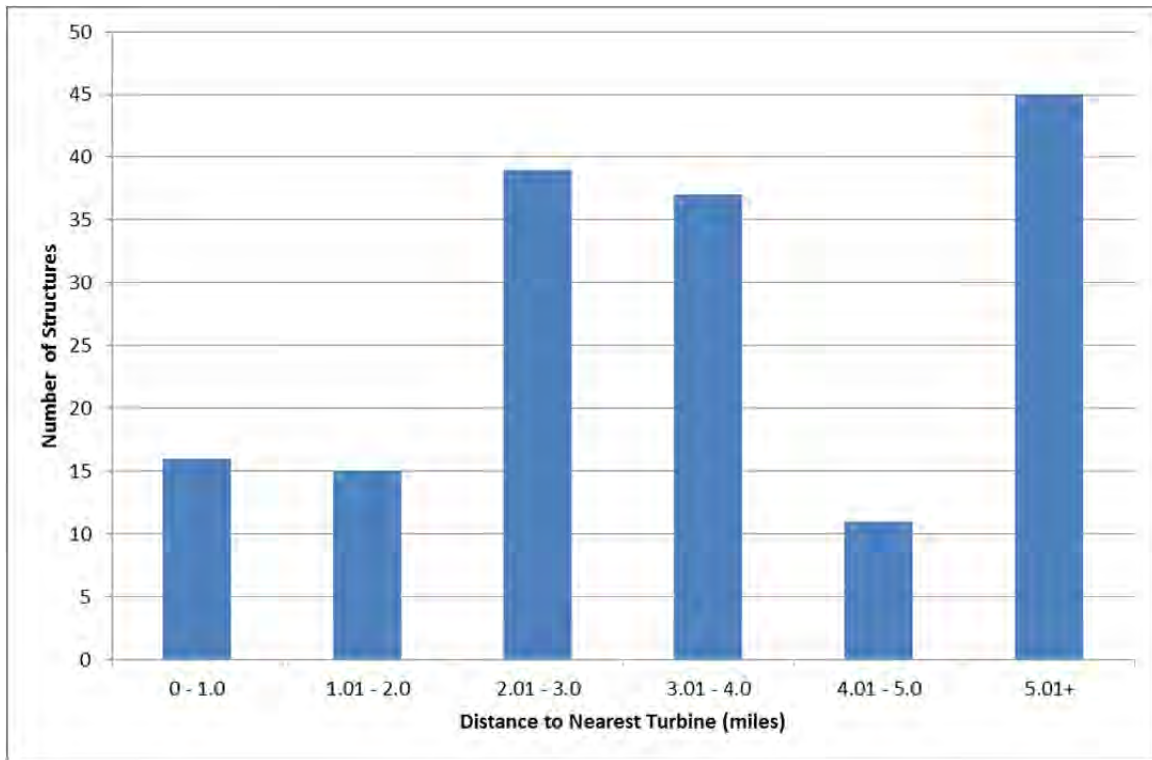


Figure 3.1. Frequency of NRE structures relative to distance to the nearest proposed wind turbine.

Below is a summary of visual impact findings for two previous historic architectural surveys completed for the proposed Project:

- 1) The 2008 investigation identified 132 individual NRE resources and one NRE historic district (Ewing Park South Dayton Historic District [13 contributing and 1 non-contributing properties]) in the Project’s visual APE (see Longiaru et al. 2008).
- 2) The 2013 addendum survey identified an additional eight recommended individual NRE properties, one recommended NRE historic district (Center Street Historic District [13 contributing resources and one non-contributing resource]), the NRE Silver Creek Historic District within the topographic visual APE /or viewshed (see Smith et al. 2013).

2015 ADDENDUM: VISUAL IMPACTS SUMMARY

No NRL properties are located in the visual APE. There are 163 individual NRE architectural resources and two historic districts with “Undetermined” NRHP status in the visual APE. The number of turbines that can be seen from all properties documented within the five-mile APE (e.g., NRL, NRE and recommended NRE properties) spans the full range of values (Table 3.1).

The mean number of turbines that are visible from an NRE property, however, is 19; the average distance from an NRE property to the nearest turbine is 3.7 miles (6.0 km).

Table 3.1. Properties within the visual APE of the Ball Hill Wind Farm and visual impacts of Project turbines.

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|------------------------------------|-------------------------|-------------|------------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 1 | | 12182 Markhams Road | Cattaraugus | Dayton | | 21 | 4.5 | 25 |
| 3 ¹ | Cottage Cemetery | Cottage Road | Cattaraugus | Dayton | Cottage (h) | 25 | 3.9 | 24 |
| 4 | | 12654 Cottage Road | Cattaraugus | Dayton | Cottage (h) | 25 | 3.5 | 19 |
| 5 | | 27 Cherry Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.3 | 3 |
| 6 | Factory Building | East Railroad Avenue | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.6 | 25 |
| 7 | | 73 East Railroad Avenue | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.6 | 19 |
| 8 | | 62 Main Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.2 | 22 |
| 9 | | 203 Maple Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.3 | 10 |
| 10 | | 212 or 214 Maple Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.2 | 4 |
| 11 | Harry Austin Milling Co. | Mill Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.6 | 18 |
| 12 | | 227 Oak Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.3 | 21 |
| 13 | Sears | 8143 Oaks Road | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.6 | 36 |
| 14 | | 107 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.6 | 20 |
| 15 | | 309 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.4 | 19 |
| 16 | | 312 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.4 | 16 |
| 17 | | 319 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.4 | 19 |
| 18 | | 413 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.3 | 16 |
| 19 | Perrysburg Cemetery | NY 39 | Cattaraugus | Perrysburg | | 36 | 2.7 | 13 |
| 20 | | 12316 NY 39 | Cattaraugus | Perrysburg | | 36 | 4.5 | 6 |
| 21 | Rugg-town West Perrysburg Cemetery | West Perrysburg Road | Cattaraugus | Perrysburg | West Perrysburg (h) | 36 | 3.5 | 35 |

¹ Note, missing map points indicate those resources are no longer included in the visual APE as a result of either their absence in CRIS or their NRHP status has changed.

Table 3.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|---------------------------|-----------------------------|-------------|------------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 22 | | 10929 West Perrysburg Road | Cattaraugus | Perrysburg | West Perrysburg (h) | 36 | 3.5 | 35 |
| 24 | | 8129 Griswold Road | Chautauqua | Arkwright | | 1 | 4.3 | 7 |
| 25 | Rose Farm | 1936 Rutenbur Road | Chautauqua | Arkwright | | 3 | 3.0 | 33 |
| 26 | | 2667 NY 83 | Chautauqua | Arkwright | Arkwright (h) | 2 | 3.2 | 19 |
| 27 | Black Farm Complex | 8903 Farrington Hollow Road | Chautauqua | Arkwright | Blacks Corners (h) | 1 | 1.6 | 33 |
| 28 | Arkwright Summit Cemetery | Farrington Hollow Road | Chautauqua | Arkwright | Blacks Corners (h) | 1 | 1.5 | 32 |
| 29 | Mapl-Camp Farm/Black Farm | 2083 NY 83 | Chautauqua | Arkwright | Blacks Corners (h) | 1 | 1.4 | 32 |
| 30 | | 10917 Alleghany Road | Chautauqua | Hanover | | 36 | 2.7 | 12 |
| 31 | | 12168 Alleghany | Chautauqua | Hanover | | 38 | 5.5 | 27 |
| 32 | Evergreen Cemetery | Angell Street | Chautauqua | Hanover | | 35 | 4.6 | 33 |
| 33 | Forestville Depot | Center Street | Chautauqua | Hanover | | 35 | 2.6 | 11 |
| 34 | Christy Road Cemetery | Christy Road | Chautauqua | Hanover | | 38 | 5.3 | 0-36 |
| 35 | | Hanover Road | Chautauqua | Hanover | | 37 | 1.2 | 23 |
| 36 | Livemore Family | 10079 Hanover Road | Chautauqua | Hanover | | 36 | 0.7 | 28 |
| 37 | Hurlburt Road Cemetery | Hurlburt Road | Chautauqua | Hanover | | 30 | 0.9 | 8 |
| 38 | | Hurlburt Road | Chautauqua | Hanover | | 30 | 0.9 | 12 |
| 39 | | 469 NY 39 | Chautauqua | Hanover | | 36 | 0.8 | 27 |
| 40 | | 503 NY 39 | Chautauqua | Hanover | | 36 | 0.7 | 23 |
| 41 | | 675 NY 39 | Chautauqua | Hanover | | 38 | 0.3 | 25 |
| 42 | | 1411 NY 39 | Chautauqua | Hanover | | 35 | 1.5 | 23 |
| 43 | | Old Forestville Road | Chautauqua | Hanover | | 35 | 4.7 | 34 |
| 44 | Pioneer Cemetery | 11049? Old Forestville Road | Chautauqua | Hanover | | 35 | 2.8 | 19 |
| 45 | | 11103 Old Forestville Road | Chautauqua | Hanover | | 35 | 2.9 | 19 |

Table 3.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|-----------------------------------|-----------------------|------------|---------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 46 | Mt. Carmel Cemetery | Old Main Street | Chautauqua | Hanover | | 35 | 5.6 | 0-35 |
| 47 | Glenwood Cemetery | Old Main Street | Chautauqua | Hanover | | 35 | 5.5 | 35 |
| 48 | | 11935 Old Main Street | Chautauqua | Hanover | | 35 | 5.3 | 35 |
| 49 | Prospect Hill Cemetery | Prospect Street | Chautauqua | Hanover | | 35 | 2.1 | 16 |
| 50 | Doty Cemetery | Stebbins Road | Chautauqua | Hanover | | 35 | 4.5 | 34 |
| 51 | Ball Valley Farms | 11037 Allegany Road | Chautauqua | Hanover | Balltown (h) | 36 | 3.2 | 22 |
| 52 | Balltown Cemetery | Mackinaw Road | Chautauqua | Hanover | Balltown (h) | 36 | 3.3 | 10 |
| 53 | | 12010 Angel Road | Chautauqua | Hanover | Hanover Center (h) | 38 | 4.9 | 35 |
| 54 | | 12021 Angel Road | Chautauqua | Hanover | Hanover Center (h) | 38 | 5.0 | 35 |
| 55 | Golden Harvest | 967 Hanover Road | Chautauqua | Hanover | Hanover Center (h) | 35 | 4.7 | 34 |
| 56 | | 11991 Hanover Road | Chautauqua | Hanover | Hanover Center (h) | 35 | 4.8 | 34 |
| 57 | Nashville Cemetery | Alleghany Road | Chautauqua | Hanover | Nashville (h) | 36 | 1.5 | 14 |
| 58 | Church | NY 39 | Chautauqua | Hanover | Nashville (h) | 36 | 1.5 | 20 |
| 59 | Smith's Mill Cemetery | Hanover Road | Chautauqua | Hanover | Smith's Mill (h) | 38 | 3.8 | 16 |
| 61 | | 13 Cedar Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.7 | 17 |
| 63 | | 28 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 9 |
| 64 | | 11-15 Main Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 7 |
| 65 | | 26 Main Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.7 | 10 |
| 66 | | 27 Main Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 11 |
| 67 | Forestville Free Methodist Church | 32 Main Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.8 | 14 |
| 68 | | 43 Main Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.7 | 13 |
| 69 | | 2 Pearl Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 5 |

Table 3.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|-----------------------------------|---------------------|------------|---------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 70 | | 9 Water Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.8 | 9 |
| 71 | Clark Mansion on Lighthouse Point | Beachview Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 7.2 | 6 |
| 72 | | 10 Beachview Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 7.1 | 5 |
| 73 | | 130 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.9 | 8 |
| 74 | | 147 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.8 | 25 |
| 75 | | 151 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.8 | 35 |
| 76 | Our Lady of Carmel | 165 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.7 | 28 |
| 77 | | 338 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 35 |
| 78 | | 350 Central Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 35 |
| 79 | | 5 Christy Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.5 | 35 |
| 80 | | 9 Christy Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.4 | 35 |
| 81 | | 4 Dana Drive | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.5 | 14 |
| 82 | | 12370 Hanover Road | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.4 | 35 |
| 83 | | 16 Hanover Road | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.7 | 35 |
| 90 | | 6/8 Lake Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.8 | 10 |
| 91 | St. Albans | 38 Lake Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.8 | 23 |
| 92 | | 18 Oak Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 31 |
| 93 | | 30 Oak Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.7 | 35 |
| 94 | | 117 Old Main Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.3 | 2 |
| 95 | | 151 Old Main Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.1 | 17 |
| 96 | | 155 Old Main Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.1 | 35 |
| 97 | | 1 Oliver Place | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 16 |
| 98 | | 5 Oliver Place | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 15 |
| 99 | Swift House | 6 Parkway Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.7 | 29 |
| 100 | | 9 Parkway Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.7 | 33 |

Table 3.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|--|------------------------------|------------|-----------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 101 | | 17 Parkway Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.7 | 32 |
| 102 | Erbin House | 27 Parkway Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 27 |
| 103 | Trinity Lutheran Church | Porter Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.9 | 35 |
| 104 | | 19? Porter Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.9 | 35 |
| 105 | | 21 Porter Avenue | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.9 | 35 |
| 106 | | 45 Robinson Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.2 | 34 |
| 107 | | 16 Rumsey Street | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.9 | 16 |
| 108 | | 28 Ward Place | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.4 | 35 |
| 109 | | 1873 East Middle Road | Chautauqua | Sheridan | | 35 | 6.3 | 35 |
| 110 | | 1980 King Road | Chautauqua | Hanover | | 35 | 4.2 | 32 |
| 111 | | 2023 Stebbins Road | Chautauqua | Sheridan | | 35 | 5.1 | 30 |
| 112 | | 2248 Stebbins Road | Chautauqua | Sheridan | | 35 | 5.3 | 34 |
| 113 | Cemetery | Hanover Road | Chautauqua | Villanova | | 25 | 1.2 | 25 |
| 114 | School No. 10 | 9129 North Hill Road | Chautauqua | Villanova | | 9 | 0.3 | 25 |
| 115 | | NY 83 | Chautauqua | Villanova | | 3 | 0.5 | 2 |
| 116 | | 8025 NY 83 | Chautauqua | Villanova | | 3 | 3.3 | 29 |
| 117 | | 8052 NY 83 | Chautauqua | Villanova | | 21 | 3.2 | 29 |
| 118 | | 8562 NY 83 | Chautauqua | Villanova | | 21 | 1.7 | 25 |
| 119 | | 307 Philips Road | Chautauqua | Villanova | | 21 | 1.7 | 28 |
| 120 | Pope Hill Cemetery | Pope Hill Road | Chautauqua | Villanova | | 2 | 1.1 | 33 |
| 121 | Forestville Wesleyan Church/School/Ball Hill Cem | 9495 Prospect Road | Chautauqua | Villanova | | 16 | 0.4 | 29 |
| 122 | | 641 South Dayton Road | Chautauqua | Villanova | Balcom Corners (h) | 21 | 1.8 | 19 |
| 123 | | 691 South Dayton Road | Chautauqua | Villanova | | 3 | 1.8 | 21 |
| 124 | Dye Homestead | 558 South Dayton-Hamlet Road | Chautauqua | Villanova | Balcom Corners (h) | 21 | 1.8 | 22 |

Table 3.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|---|------------------------|-------------|-----------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 125 | Hamlet Cemetery | NY 83 | Chautauqua | Villanova | Hamlet (h) | 3 | 0.5 | 3 |
| 126 | | 1141 NY 83 | Chautauqua | Villanova | Hamlet (h) | 3 | 0.7 | 13 |
| 127 | Villanova Grange | NY 83 | Chautauqua | Villanova | Hamlet (h) | 3 | 0.7 | 11 |
| 128 | Hamlet School District No. 2 | School Street | Chautauqua | Villanova | Hamlet (h) | 3 | 0.7 | 8 |
| 129 | Hamlet United Methodist Church | 1119 South Dayton Road | Chautauqua | Villanova | Hamlet (h) | 3 | 0.8 | 14 |
| 130 | | 1129 South Dayton Road | Chautauqua | Villanova | Hamlet (h) | 3 | 0.8 | 14 |
| 131 | IOOF | South Dayton Road | Chautauqua | Villanova | Hamlet (h) | 3 | 0.7 | 11 |
| 132 | Villanova Cemetery | Cemetery Road | Chautauqua | Villanova | Wright's Corners (h) | 21 | 1.4 | 20 |
| SD2 | Wilson Hale & Co. | 1 Park Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.5 | 18 |
| SD3 | Wilson Hale & Co./ Post Office | 5 Park Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.5 | 18 |
| SD4 | Cattaraugus County Bank | 7 Park Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.5 | 18 |
| SD5 | Gypsy Tea Room | 9 Park Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.5 | 18 |
| SD6 | Commercial c.1890 | 11 Park Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.5 | 18 |
| SD7 | Commercial c.1910 | 13 Park Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.5 | 17 |
| SD8 | Commercial c.1900 | 15 Park Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.5 | 17 |
| SD11 | The Valley House/ South Dayton Hotel 1877 | 203 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.6 | 19 |
| SD12 | Commercial c.1930 | 205 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.6 | 19 |
| SD13 | Commercial c.1900 | 207 Pine Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.5 | 19 |
| SD14 | South Dayton Depot | Railroad Street | Cattaraugus | Dayton | South Dayton (V) | 21 | 3.6 | 18 |
| 133 | | 1 Lodi Street (NY 39) | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 3 |
| 134 | | 25 Main Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 11 |
| 135 | Forestville Methodist Episcopal Church | 3 Park Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 2 |

Table 3.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|---|---------------------------|-------------|---------|---------------------------|-----------------|-------------------------------------|----------------------------|
| 136 | | 4 Pearl Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 5 |
| 137 | Grange Hall No. 829 | 12729 Cottage Road (CR 2) | Cattaraugus | Dayton | Cottage (h) | 25 | 3.3 | 6 |
| 138 | Cottage United Methodist Church | 12737 Cottage Road (CR 2) | Cattaraugus | Dayton | Cottage (h) | 25 | 3.2 | 5 |
| 139 | First Hose House | 2 Lodi Street (NY 39) | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 4 |
| 140 | | 10 Main Street (NY 39) | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 6 |
| 141 | | 14 Main Street (NY 39) | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 5 |
| 142 | St. Peter's Episcopal Church | Park Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 4 |
| 143 | | 7 Third Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 2 |
| | Recommended Center Street Historic District | Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.3 | 0-10 |
| F1 | | 1 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 5 |
| F2 | | 2 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 7 |
| F3 | | 4 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 7 |
| F4 | | 5 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 3 |
| F5 | | 6 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 7 |
| F6 | | 7 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 5 |
| F7 | | 8 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 7 |
| F8 | | 9 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 6 |
| F9 | | 10 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 8 |
| F10 | St. Rose of Lima Church | 11 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 10 |
| F11 | | 12 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 9 |
| F12 | | 16 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 10 |
| F13 | | 18 Center Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.6 | 10 |
| F14 | | 18 Pearl Street | Chautauqua | Hanover | Forestville (V) | 35 | 2.5 | 4 |
| SC 2 | Commercial Building (Unique Hair & Nails) | 7 Park Place | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 2 |

Table 3.1 (cont'd)

| Property Number | Property Name | Street Address | County | Town | Hamlet (h) or Village (V) | Nearest Turbine | Distance to nearest turbine (miles) | Number of turbines visible |
|-----------------|--|----------------------|------------|---------|---------------------------|-----------------|-------------------------------------|----------------------------|
| SC 3 | Commercial Building (Stitches) | 9 Park Place | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 2 |
| SC 4 | Commercial Building (People Inc.) | 17 Park Place | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 2 |
| SC 5 | The Geitner Theatre (The Blackline) | 19 Park Place | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 2 |
| SC 6 | Commercial Building | 25 Park Place | Chautauqua | Hanover | Silver Creek (V) | 35 | 6.6 | 1 |

4.0 Mitigation of Visual Impacts

A total of 163 individual NRE properties and two historic districts with “Undetermined” NRHP status were previously identified in the current visual APE in Chautauqua and Cattaraugus counties (Longiaru et al. 2008; Smith et al. 2013). None of these properties are listed on the National Register. The number of turbines that can be seen from NRE properties spans the full range of values. The average number of turbines that can be seen is 19 with an average distance of 3.7 miles. While some of these properties are grouped together within villages or hamlets, along roads or in associated complexes such as farmsteads, on the whole, the properties are widely dispersed across the area. As noted in Section 3.0, the impacts to these resources vary with the surrounding topography, distance from the turbines and electrical lines, existing landscaping and vegetation, and surrounding land uses.

Some screening will be afforded by mature trees, shrubs and plantings for at least part of the year. This observation is especially true for buildings/structures in the areas surrounding streams and steep embankments. The topography of some portions of the five-mile visual APE will provide additional screening. Nevertheless, there are visual impacts to the area associated with the construction of the Ball Hill Wind Project that will require mitigation.

Ball Hill Wind Energy, LLC is obligated to mitigate adverse visual effects to NRE and NRL properties under Section 106 of the National Historic Preservation Act, as well as to mitigate significant visual impacts under Article 8 of the New York State Environmental Conservation Law (ECL) and 6NYCRR Part 617 as delineated in the New York State Department of Environmental Conservation’s (NYSDEC) *Assessing and Mitigating Visual Impacts* (2000). In the case of the Ball Hill Wind Project, both Section 106 and NYSDEC mitigation were triggered by the same occurrence: the inclusion of NRE or potentially NRE properties within the project visual APE. NYSDEC lists specific mitigation strategies, while Section 106 does not; the two are not mutually exclusive, however, and strategies for each can have common characteristics.

The mitigation of visual effects to these properties presents an opportunity for a number of alternative mitigative strategies. The usual mitigative approaches can be applied; however, broader alternative strategies can encourage local community input and assist those communities through the undertaking of “hometown” cultural resource projects that are commonly in need of financial and professional assistance. The mitigative strategies below are grouped into several categories. These categories overlap; and some of the categories include the more traditional mitigative alternatives.

The selection of mitigation/offset projects is typically accomplished through discussions among the various local stakeholders, the wind-project developer, NYSHPO, the Lead Federal agency, and the Advisory Council on Historic Preservation, where specific community historic preservation needs are ascertained and funding levels are negotiated. A final set of appropriate mitigation measures will be identified to reflect local concerns and address individual properties, and a Memorandum of Agreement will be developed and signed.

PROJECT CRITERIA

Typically, the following working criteria are considered for any proposed “historical mitigation” project or activity. These criteria provide that the subject of any such project should:

1. Be consistent with the guidance of NYSHPO;
2. Have historical significance;
3. Serve a public historic purpose;
4. Be a good investment;
5. Be appropriate to the state of preservation of local historical resources.

PROFESSIONAL DESIGN AND SITING

NYSDEC considers a properly designed and sited project to be the best way to mitigate potential impacts. The Ball Hill Wind Project is designed to mitigate the visual impact of the turbines where practical. The color of the towers is a non-specular neutral white or off-white so the towers will blend into a white sky. The turbines are laid out in a random, natural pattern so that the flow of the landscape is not interrupted. FAA lighting is not required on every turbine. Permanent access roads are generally only 16 feet (4.9 meters) wide and temporary access roads are only 35 ft (10.7 m) wide.

Electrical lines connecting the turbines to each other and the existing substation will be carried on poles approximately 90 ft (27.5 m) tall, or placed underground, or installed along existing power line rights-of-way where possible. Since the collection lines are on average approximately 90 ft (27.5 m) tall, some screening will be afforded by mature trees, shrubs and plantings for at least part of the year. The overhead line runs through a heavily forested area and over open fields in Hanover.

MAINTENANCE

NYSDEC considers the maintenance of buildings/structures and landscapes and the decommissioning of objects or buildings/structures as part of a mitigation strategy. Proper maintenance prevents “eyesores” and is an integral part of the plan for the Ball Hill Wind Project.

Local laws require a decommissioning plan to be put into place to remove obsolete and unused turbines. The plan will include cost estimates for the removal of towers and the reclamation of the areas including concrete foundations, access roads, seeding and re-vegetation and salvage of various materials.

SURVEYS

The completion of various types of surveys is a more traditional form of Section 106 mitigation, and it can also be used as a type of “offset” as described by NYSDEC. An “offset” is the correction of an existing aesthetic problem identified within the visual APE as compensation for project impacts. Elements of these surveys can include:

- GIS mapping of the county’s cultural resources within the affected area
- Completing a detailed architectural survey of Chautauqua County
- Conducting surveys identifying specific architectural styles and types of buildings, structures and landscapes within the counties, towns, villages and hamlets affected by the project
- Listing NRE resources
- Cataloging sites/buildings/structures/objects/districts/landscapes that have been identified as NRE, but never listed within the area affected by the project
- Completing formal recordation documents (e.g., Historic American Buildings Survey [HABS], Historic American Engineering Record [HAER], Historic American Landscape Survey [HALS]) for the power houses/dams as well as sites, buildings, structures, landscapes that have been identified but never completed within the APE.

MONETARY CONTRIBUTIONS

The funding of specific historic preservation projects overseen by a third party is also an effective way of offsetting project impacts.

- Establishing a monetary fund, with NYSHPO oversight, to initiate an historic landscape preservation program to support the preservation of historic landscapes in New York State.

The introduction of such a program would offer technical assistance to municipalities and not-for-profit organizations to increase awareness of historic landscapes in New York State.

- Establishing a cemetery maintenance program that can disburse funds to maintain the many small historic cemeteries in the area.
- Providing funds towards the construction of a “Historic Center” for storage and display of historic material. The location can be determined upon consultation with the county and affected towns.
- Making donations to libraries in the affected area for purchase of local and Chautauqua County material.
- Creating a Historic Property Visual Mitigation Grant Fund for use by the owners of historic structures affected by the project. Funds from grants would be used to purchase onsite screening or make repairs to affected historic structures. The details of oversight, submission protocols, and eligibility will be negotiated with the NYSHPO.

HERITAGE TOURISM

The creation of Heritage Tourism materials has become an important part of municipal, regional, and state promotional activities. These materials can be easily used by many individuals and widely distributed. Most of the activities listed below fall within the traditional Section 106 mitigation sphere, and all can be used as offsets.

- 10-Minute Video Presentation. A video presentation can be used in schools, for presentations to civic groups, and on public access television.
- Brochure. A brochure highlighting historic architecture can be distributed at public libraries, visitor’s centers, etc., within the affected area.
- Posters. Posters can be produced highlighting the area and its history.
- Driving/Walking tours. Tours can be conducted out of the public library, visitor’s centers, etc., within the affected area.
- Exhibit. Exhibits focusing on history and architecture can be set up in libraries, visitor’s centers, town halls, etc., within the affected area.
- PowerPoint Presentation. This can be used in schools, for presentations to civic groups within the affected area

EDUCATIONAL ACTIVITIES

Educational activities have a broad appeal and can target a wide age group. Activities for school-age groups can help raise awareness of cultural resources within the community at an early age and engender excitement within the school system. Educational activities of various types are traditional Section 106 mitigation options; however, the creation of a graphic novel is a variation on this traditional use. The items below are also excellent offset activities.

- Grade-Appropriate Lesson Plans. Packages can include teacher information, student activities, and possible field trips, long- and short-term class projects centered on the affected area and distributed via Internet.
- Graphic Novel (comic book) about the history of the area.
- Host Public History Day. A special event can be staged in conjunction with schools and chambers of commerce within the affected area

HISTORY ACTIVITIES

Activities related to historic resources are the most traditional of Section 106 mitigation strategies. Nevertheless, they can be useful and an important offset activity. These include:

- Popular Written History of the County. Produce a history highlighting specific county contributions to state and country, addressing the towns, villages and hamlets within the affected area.
- Historic Brochure and/or series of brochures addressing various aspects of the county's, town's, village's and hamlet's history within the affected area.
- Oral History Project.
- Placing Historic Markers.
- Creation of Context/s. Produce historical/architectural histories and contexts specific to the area, particularly a regional farming context.

Local community input is vital to the success of any mitigation strategy. Local historians, town officials, and agencies should be contacted to begin the process of determining community needs. NYSHPO staff will also play a major role in this process. This investigation of probable community needs is preliminary at best and in no way represents a final accounting of those needs.

5.0 References

Bonafide, John A.

2008 Letter to Andrew C. Davis, State of New York Department of Public Service, Albany, New York. Re: PSC/SEQR Noble Ball Hill Windpark (08PR01814), dated 24 September 2008. New York State Office of Parks Recreation and Historic Preservation.

EDR

2015 *Phase IA Historic Architectural Resources Survey & Work Plan Cassadaga Wind Project; Towns of Charlotte, Cherry Creek, And Stockton, Chautauqua County, New York*. Prepared for Everpower Wind Holdings, Inc., Pittsburgh, PA. \ Prepared by EDR, Syracuse, NY.

Hanley, Robert J., Donald Smith, Mark A. Steinback, and Michael A. Cinquino

2015 *Archaeological Survey for the Ball Hill Wind Project, Towns of Villenova and Hanover, Chautauqua County, New York*. Addendum #2. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Ecology & Environment, Inc., Lancaster, NY.

Longiaru, Christine M., Kelly M. Mahar, Frank J. Schieppati, Donald Smith, Mark A. Steinback, Michael A. Cinquino, and Martin Wachadlo

2008 *Architectural Survey (Five-mile APE) for the Proposed Noble Ball Hill Windpark, Towns of Villenova and Hanover, Chautauqua County, New York (OPRHP #08PR01814)*. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Noble Ball Hill Windpark, LLC, Essex, CT.

New York State Department of Environmental Conservation (NYSDEC)

2000 *Assessing and Mitigating Visual Impacts, DEP-00-02*. (Jul 31). New York State Department of Environmental Conservation, Albany.

New York State Office of Parks, Recreation and Historic Preservation Office (NYSOPRHP)

2006 *Guidelines for Wind Farm Development Cultural Resources Survey Work*. New York State Historic Preservation Office, Office of Parks, Recreation and Historic Preservation, Peebles Island, Waterford.

2015 Cultural Resources Information System (CRIS). New York State Historic Preservation Office, Office of Parks, Recreation and Historic Preservation, Peebles Island, Waterford. Electronic database, <https://cris.parks.ny.gov/Login.aspx?ReturnUrl=%2f>, accessed November 2015.

Sexton, James, and Jim Toner

2009 *Historic Architectural Resource Investigation, 5-mile Ring Study, Arkwright Summit Wind Farm, Towns of Arkwright, Charlotte, Cherry Creek, Dunkirk, Hanover, Pomfret, Sheridan, Stockton, and Villenova, The Villages of Cassadaga, Fredonia, and Forestville, and the City of Dunkirk, Chautauqua County, New York*. Tetrtech, Inc. Prepared for Arkwright Summit Wind Farm, LLC, Albany, NY.

Smith, Donald, Christine M. Longiaru, Frank J. Schieppati, Mark A. Steinback, and Michael A. Cinquino

2013 *Archaeological and Architectural Survey for the Duke Energy Ball Hill Windpark Addendum, Town of Villenova and Hanover, Chautauqua County, New York*. #08PR01814. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Ecology & Environment, Inc., Lancaster, NY

U.S. Geological Survey

1984 *Buffalo, New York, 1:100k Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.

1986 *Olean, New York-Pennsylvania, 1:100k Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.

1986 *Silver Creek, New York-Pennsylvania-Ontario, 1:100k Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.

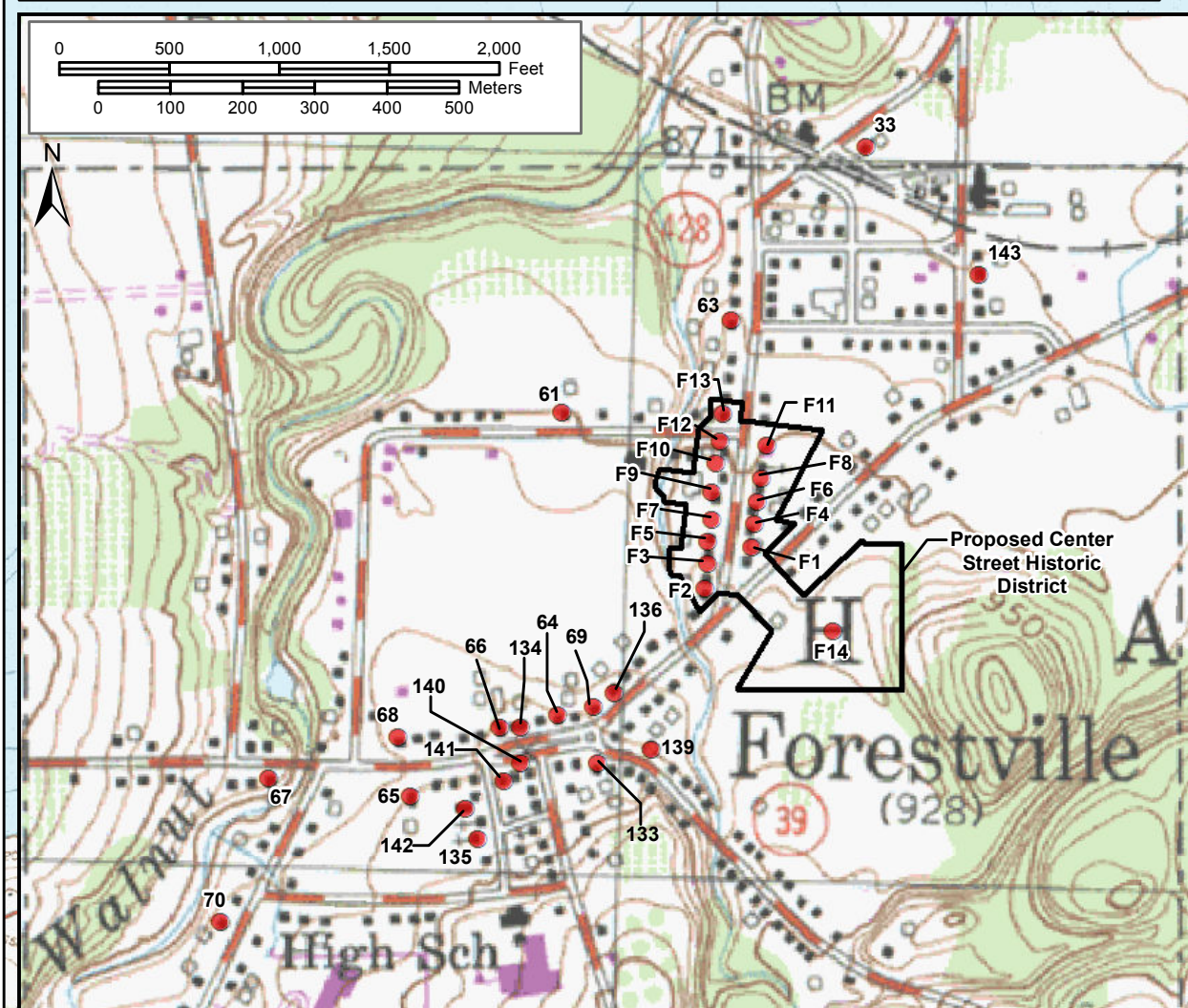
1988 [1986] *Jamestown, New York-Pennsylvania, 1:100k Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C. Photo-inspected.

Pocket Map

Ball Hill Windfarm 2015 Historical Architectural Investigation Results

- Turbine
- Identified Property
- Architectural APE
- One-half and Three miles from turbines
- Combined Previous Architectural APEs
- No Turbines Visible
- Transmission Line

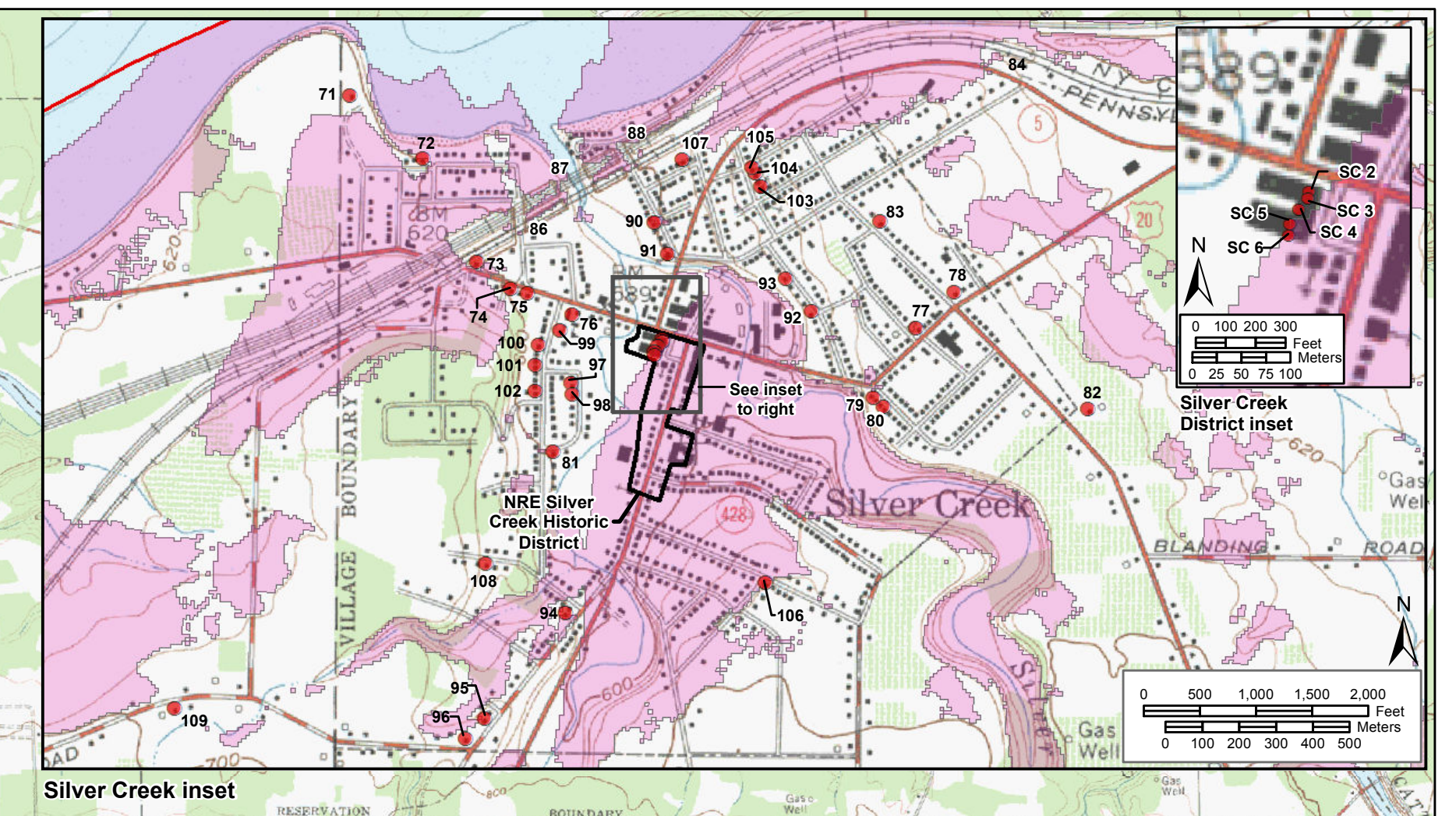
Base maps are USGS 7.5 minute series: Cassadaga 1876(1885); Cherry Creek 1876(1884); Dunlap 1876(1884); Fannin 1880; Forestville 1878(1884); Sawards 1876(1883); Hermit 1878(1884); New Albion 1876(1883); North Collins 1889; North of Dublin 1876(1884); Perryburg 1876(1884); Silver Creek 1882



Forestville inset

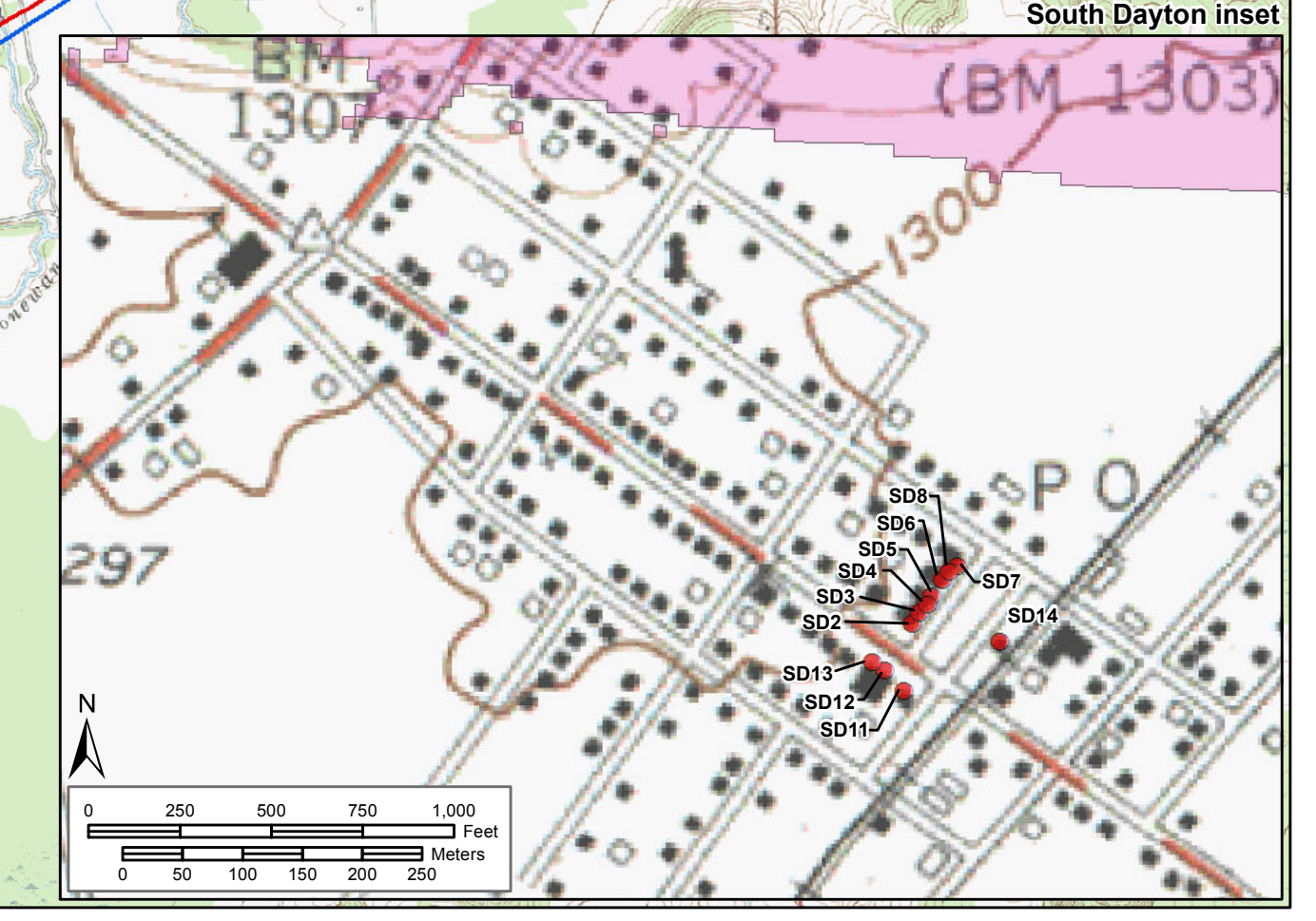
See Silver Creek inset

See Forestville inset

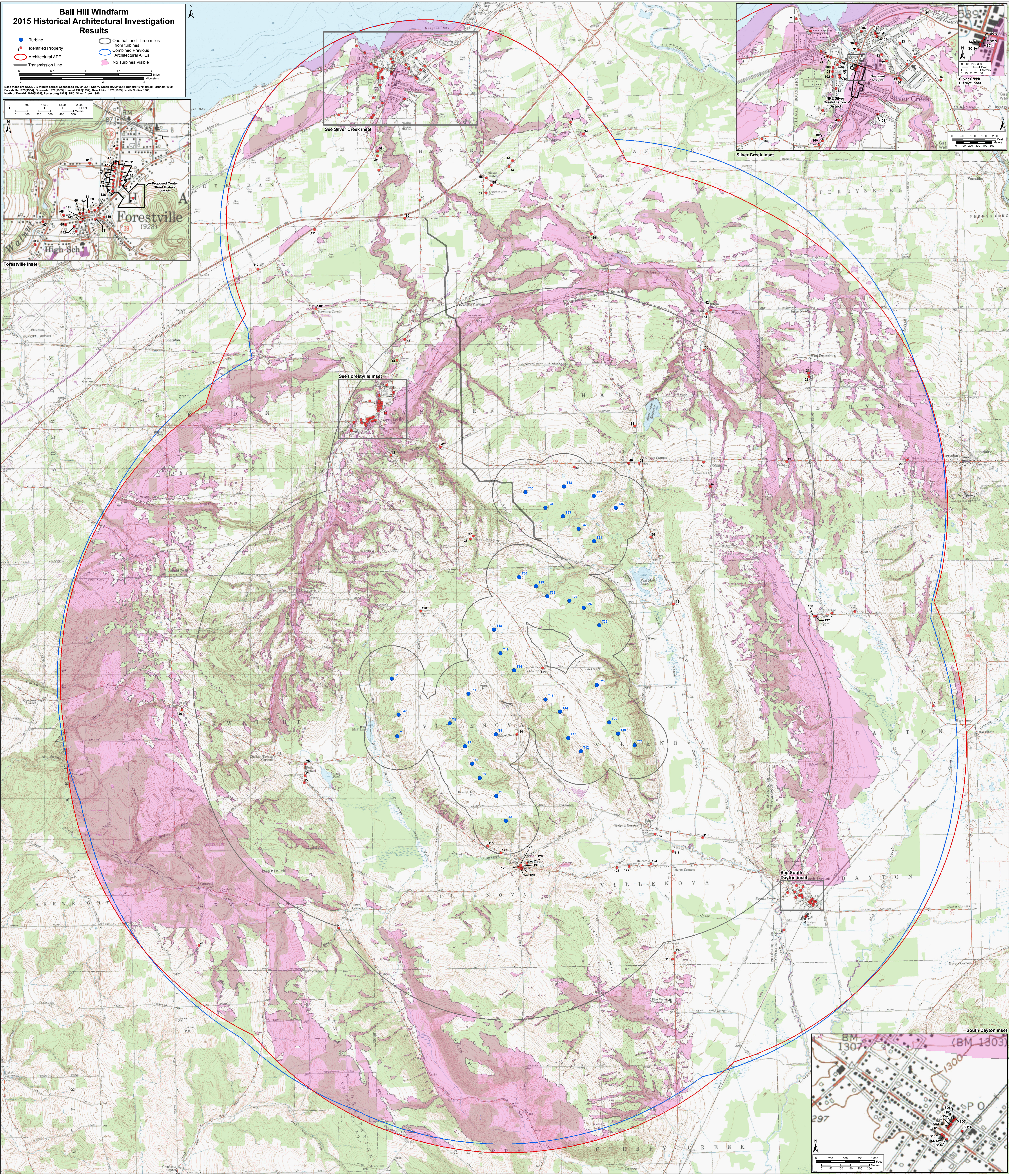


Silver Creek inset

See South Dayton inset



South Dayton inset



2015 Archaeological Survey



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**ARCHAEOLOGICAL SURVEY
FOR THE BALL HILL WIND PROJECT,
TOWNS OF VILLENOVA AND HANOVER,
CHAUTAUQUA COUNTY, NEW YORK**

ADDENDUM #2

OPRHP#08PR01814

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December 2015

**ARCHAEOLOGICAL SURVEY
FOR THE BALL HILL WIND PROJECT
TOWNS OF VILLENOVA AND HANOVER,
CHAUTAUQUA COUNTY, NEW YORK**

ADDENDUM #2

OPRHP#08PR01814

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December 2015

Management Summary

SHPO Project Review Number: #08PR01814

Involved State and Federal Agencies: U.S. Army Corps of Engineers, New York State Department of Environmental Conservation, Public Service Commission

Phase of Survey: Addendum Phase 1 archaeological survey

Project Location Information

Location: see minor civil division below

Minor Civil Division: Towns of Villenova (MCD 01326) and Hanover (MCD 01314)

County: Chautauqua

Number of Proposed Turbines: 36

Area of Potential Effect (APE): The total APE of turbines, access roads, collection lines, laydown areas, and support structures (e.g., operations & management, substation) is 354.8 acres.

USGS 7.5-Minute Quadrangle Maps (all New York): Archaeological Investigation: Forestville (1979); **Architectural Investigation:** Cassadega (1976), Cherry Creek (1976), Dunkirk (1979), Farnham (1960), Forestville (1979), Hamlet (1976), Perrysburg (1976), and Silver Creek (1960)

Results of Archaeological Survey: The redesigned configuration of the Ball Hill Wind Project has an area of potential effect that measures 354.8 acres. This APE has 46.2 fewer acres than the area previously surveyed for the Phase 1 investigation of the original 401-acre project design. The APE of the new design crosses similar environmental zone "Local Habitat Areas" as the previously investigated APE. Therefore the results generated by the first investigation are applicable in assessing the archaeological sensitivity of the current APE. No potentially NRHP-eligible archaeological cultural resources have been identified in the current project area. As revealed by the 2008 investigations, the terrain around the project area is typically not sensitive for precontact-period archaeological resources. Although historical-period sites are present, they cluster at the locations of MDSs. Since there are no MDSs in the portions of the current project area outside its previous configurations, it is highly unlikely that historical sites are located there.

Thus, the 2015 configuration of the Ball Hill Wind Project is not considered sensitive for archaeological cultural resources. Sufficient field investigations have been conducted per the New York State Historic Preservation Office *Guidelines for Wind Farm Development Cultural Resources Survey Work*. Panamerican does not recommend any further cultural resources investigations for the current design of the Ball Hill Wind Project.

Results of Architectural Survey

The architectural/viewshed investigation is submitted as a separate report (see Longiaru et al. 2015).

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Date of Report: December 2015

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1.0 Introduction

1.1 PROJECT DESCRIPTION

Panamerican Consultants, Inc. (Panamerican) was contracted by Ecology & Environment, Inc. (E&E), Lancaster, New York, to complete archaeological and historic structures survey addenda for the Ball Hill Wind Project, a wind-energy project proposed in the Towns of Hanover and Villenova, Chautauqua County, New York (Figure 1.1). Cultural resources investigations were completed for two earlier configurations of the project in 2008 and 2013, including: in 2008, a Phase I archaeological survey (Hanley et al. 2008b); an addendum archaeological investigation in which the addition of several project components (laydown areas, a switchyard, and a substation) were addressed (Hanley et al. 2008a); and an historical architectural investigation, which assessed the effects of the project on historical cultural resources in the surrounding landscape (Longiaru et al. 2008); and in 2013, an archaeological and architectural assessment addendum that addressed the effects of changes to the project between 2008 and 2013 (Smith et al. 2013). The current investigation was conducted to account for more changes to the project layout relative to its previous two configurations (Figure 1.2). This report only discusses the archaeological component of the investigation; the historic structures survey addendum for the current layout is submitted as a separate report.

The project includes wind-energy generation and transmission components. The generation component (i.e., wind turbines and their auxiliary facilities [access roads, an electrical collection network, construction laydown areas (LDA), and an operations and management (O&M) facility]) will be in the towns of Villenova and Hanover and the transmission component (i.e., an electrical transmission line with its ancillary facilities [access roads, a switchyard, and a substation]) will be in the Town of Hanover. The total physical area of potential effect (APE) for the current project is approximately 354.8 acres. It includes 36 wind turbines with a capacity to produce approximately 80-90MW of electricity. The APE for each turbine covers 3.65 acres; the generation project's linear components (access roads and electrical collection lines) total 123,437 ft (37,623 meters / 23.4 miles) in length and have APEs that range from 25 to 40 ft wide; the construction LDAs total 26 acres (the O&M facility lies entirely inside the APE for one of the LDAs). The project's transmission line is 31,154 ft (9,496 meters / 5.9 miles) in length and has a 120-ft-wide APE / right-of-way (ROW). Its switchyard covers 5.4 acres and the substation covers 1.9 acres. Finally, the transmission portion of the project also includes a series of access roads, all but 1.5 acres of which are located within the transmission line's ROW. The project areas for the previous investigations measured 375 acres (initial 2008 Phase I investigations), 401 acres (2008 archaeological addendum), and 416 acres (2013 architectural and archaeological addendum).

In accordance with the New York State Historic Preservation Office (NYSHPO) *Guidelines for Wind Farm Development Cultural Resources Survey Work* (2006), the purpose of this addendum is to assess the potential for the parts of the current physical project APE that are outside the areas covered by the earlier investigations to contain potentially National Register-eligible (NRE) archaeological resources. The investigation was conducted in compliance with the New York State Historic Preservation Act, the State Environmental Quality Review Act, the National Historic Preservation Act, and the National Environmental Policy Act, as well as all relevant state and federal legislation. It was also conducted according to the New York Archaeological Council's (NYAC) Standards for Archaeological Investigations, and NYSHPO guidelines.

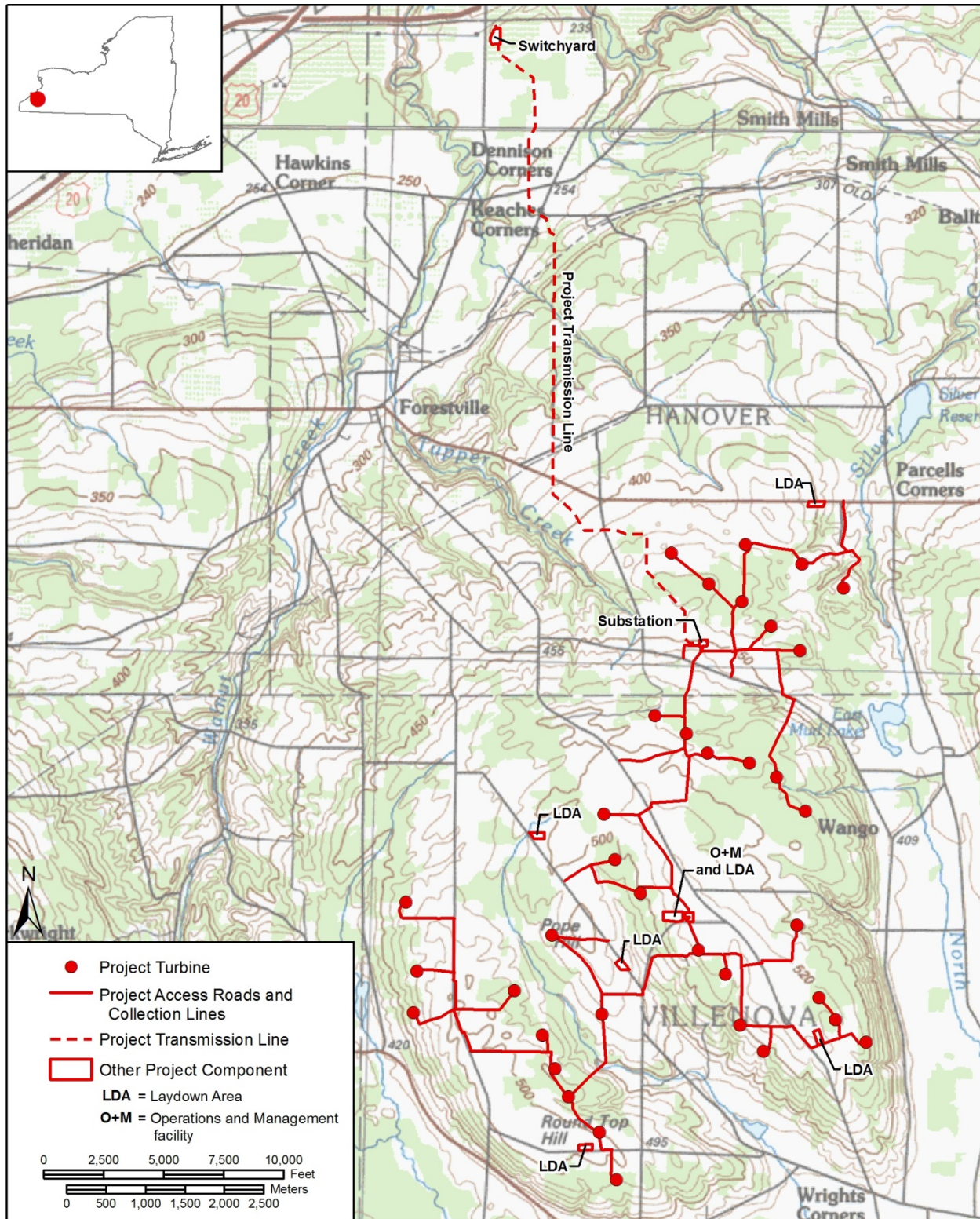


Figure 1.1. The approximate location of the Ball Hill Wind Project in the Towns of Hanover and Villenova, Chautauqua County, New York (Base map: USGS 100k series Jamestown, NY-Penn. [1988] and Silver Creek, NY-Penn.-Ont. [1986] quadrangles).

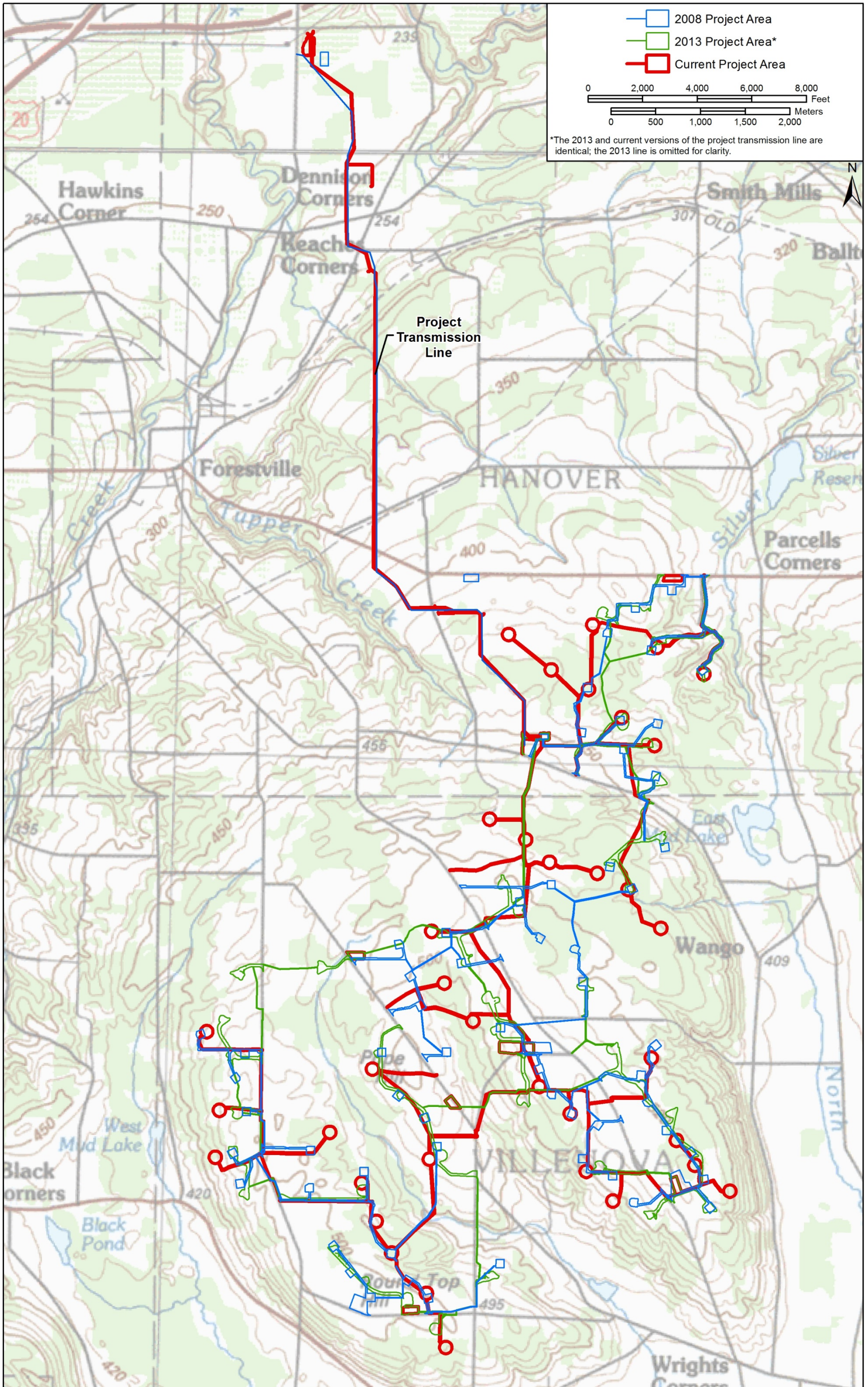


Figure 1.2. The current (2015) project configuration relative to previous layouts (2008 and 2013) (Base map: USGS 100k series Jamestown, NY-Penn. [1988] and Silver Creek, NY-Penn.-Ont. [1986] quadrangles).

The addendum investigation was conducted by Panamerican in November 2015. Mr. Robert J. Hanley, M.A., RPA and Ms. Christine M. Longiaru, M.A., served as Co-Principal Investigators. Ms. Longiaru also served as Architectural Historian and Mr. Hanley served as Project Archaeologists. Dr. Donald A. Smith, RPA, served as Geographic Information Analyst and Mr. Mark Steinback was the project historian and technical coordinator. As noted, the historic structures assessment for the project is submitted as a separate report (Longiaru et al. 2015).

2.0 Archaeological Investigation

2.1 PREVIOUS INVESTIGATIONS

The layout of the current Ball Hill Wind Project has significant overlap with that of the previously-proposed versions of the project, none of which were constructed (see Figure 1.2). Three cultural resources investigations were completed for the 2008 configuration of the project: a Phase I archaeological survey (Hanley et al. 2008a); an addendum archaeological investigation in which additional project components (e.g., LDAs, a switchyard, and a substation) were addressed (Hanley et al. 2008b); and an historical architectural investigation, which assessed the effects of the project on historical cultural resources in the surrounding landscape (Longiaru et al. 2008). In 2013, the project was redesigned and an archaeological and architectural assessment addendum (Smith et al. 2013) was prepared. The discussion of the results of the previous historic structures investigations is presented in a separate report (Longiaru et al. 2015).

2.2 CURRENT PROJECT AREA RELATIVE TO PREVIOUSLY INVESTIGATED AREAS AND RESULTS

The purpose of this addendum is to assess the potential for the parts of the current physical project APE that are outside the areas covered by the earlier investigations to contain potentially National Register-eligible (NRE) archaeological resources. NYSHPO *Guidelines for Wind Farm Development Cultural Resources Survey Work* (2006) outlines a sampling methodology for wind-power project archaeological investigations that is largely based on three criteria: the relative distribution of “environmental zones” within the project’s physical / archaeological APE; the presence of previously identified archaeological sites in or near the APE; and the locations of structures shown on historical maps and that are not now extant (i.e., map-documented structures [MDSs]) in or near the APE. Below-ground investigation includes the excavation of shovel test pits (STPs) at a five-meter interval in representative portions of each environmental zone present in a project area. The number of STPs for a project survey is determined by multiplying the project area acreage by 16 and the resulting total STPs are proportionally distributing among the environmental zones, relative to the percentage of the project area covered by each. Also, all locations of previously identified sites or MDSs are tested; the numbers of shovel tests excavated at each are included in the overall distribution of tests based on the environmental zones.

2.2.1 Environmental Zones. The area for the original project design was surveyed during the 2008 Phase 1 cultural resources investigations (Hanley et al. 2008a, 2008b). The area investigated totaled 400.61 acres that extended across parts of six environmental zones, including: areas near streams and stream headwaters; bogs, swamps, and ponds; lake plain (i.e., Lake Erie lake plain); upland slope / margin (i.e., the slope along the southern boundary of the lake plain); summits, knolls and ridges; and upland areas between summits and knolls (Table 2.1; see Hanley et al. 2008a:3-2, 2008b). The zones were tested with a total of 6,416 shovel tests distributed among 16 turbine locations, 23 portions of 21 project linear components (Hanley et al. 2008a); and one laydown area (Hanley et al. 2008b; Figure 2.1).

The current project area falls within the same overall footprint as the 2008 configuration and extends across parts of the same environmental zones with a similar spatial distribution (Figure 2.2 and Table 2.1; see Figure 1.2). Thus, the areas selected for testing in 2008 were distributed

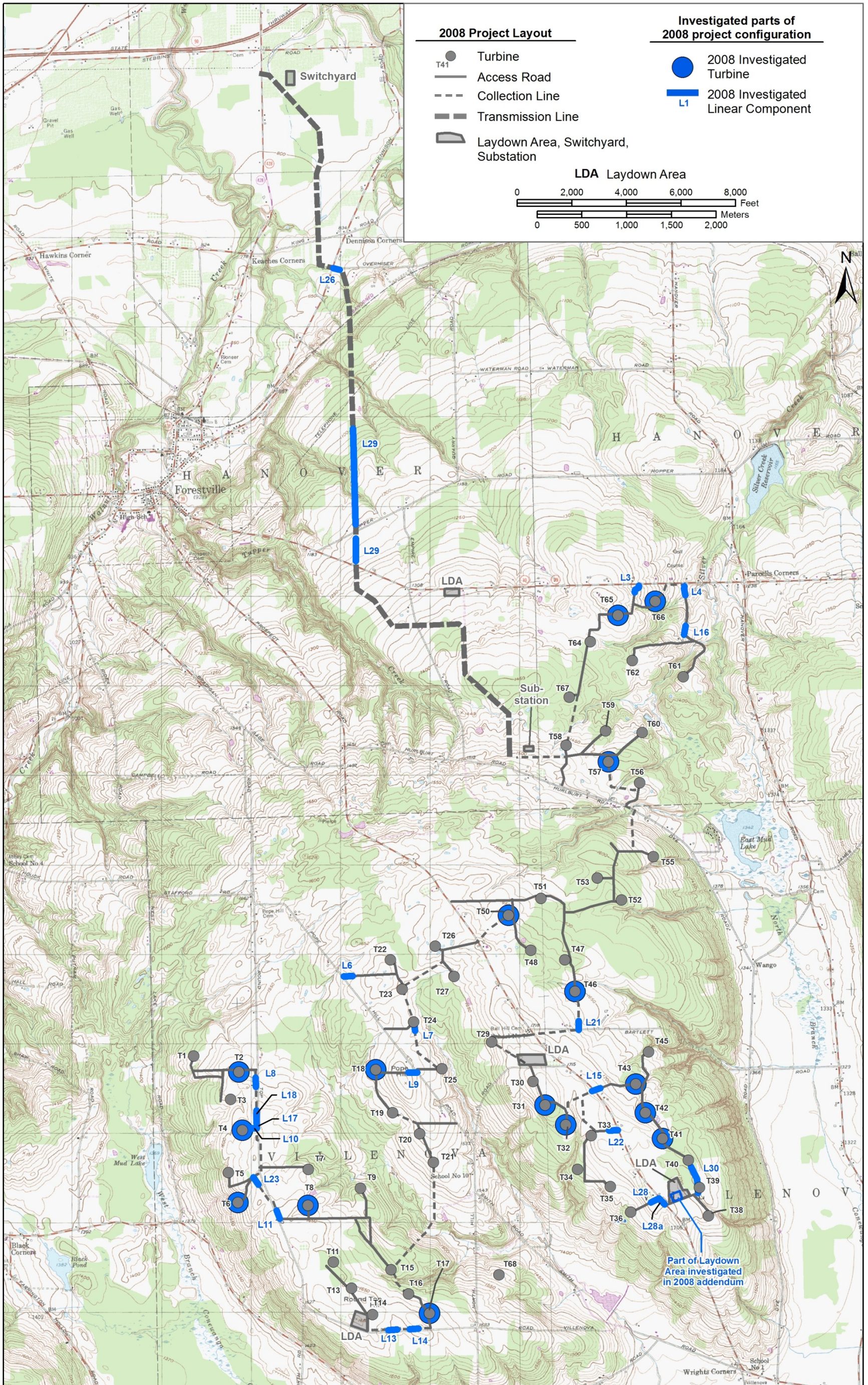


Figure 2.1. Portions of the 2008 Ball Hill Wind Project selected for archaeological survey (Base Maps: USGS 24k Series Topographic: Silver Creek, NY 1960, Farnham, NY 1960, Perrysburg, NY 1979, Forestville, NY 1979).

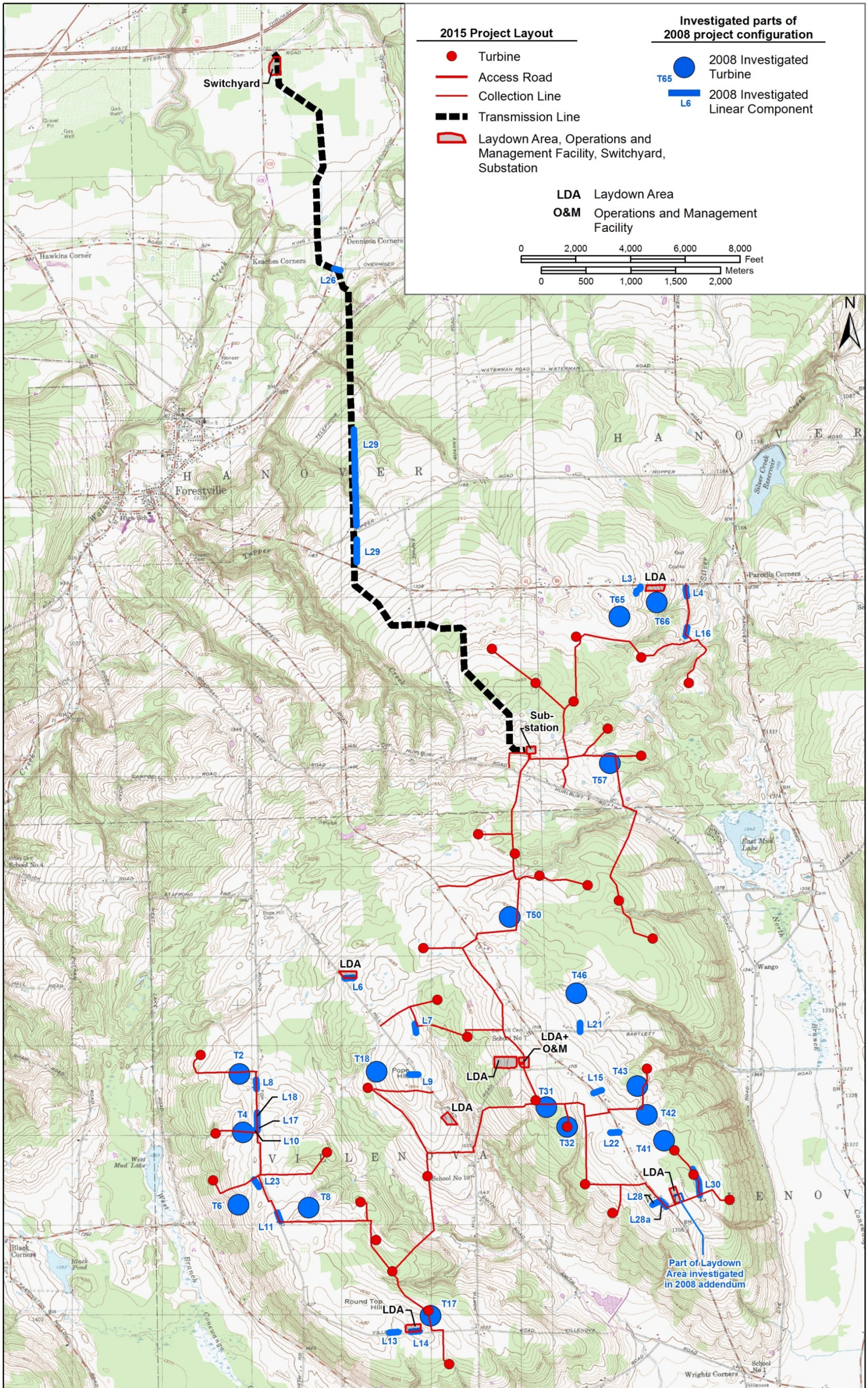


Figure 2.2. Portions of the 2008 Ball Hill Wind Project selected for archaeological survey relative to the current project area (Base Maps: USGS 24k Series Topographic: Silver Creek, NY 1960, Farnham, NY 1960, Perrysburg, NY 1979, Forestville, NY 1979).

across environmental zones at a similar ratio to how areas would be tested in the current project area (see Figure 2.2). Also, many of the areas investigated in 2008 are within the current APE. Therefore, on the basis of the SHPO Wind Farm Guidelines' environmental zone criterion, the results of the archaeological testing completed during the 2008 investigation are approximately also representative of the project's 2015 configuration.

Table 2.1. Environmental Zone Distribution for 2008, 2013, and Current Project Configurations.

| Landform | Project Configuration 2008 Reports | Project Configuration 2013 Report | Current Project Configuration |
|------------------------------------|------------------------------------|-----------------------------------|-------------------------------|
| Areas near streams | 1.82% | 2.55% | 12.09% |
| Bogs, swamps, or ponds | 0.56% | 1.75% | 1.75% |
| Lake Plain | 5.53% | 6.54% | 3.07% |
| Upland Margin | 13.65% | 13.86% | 14.97% |
| Summits, knolls, and ridges | 10.67% | 6.94% | 9.10% |
| Uplands between summits and knolls | 67.78% | 68.36% | 59.02% |

2.2.2 Project Size. The current project area totals approximately 354.8 acres, an area for which the Wind Farm Guidelines recommend below-ground survey with 5,677 STPs (354.8 acres x 16 STPs per acre). A total of 6,416 shovel tests were dug for the 2008 configuration, which covered 401 acres (6,416 tests = 401 acres x 16 tests per acre). Thus, on the basis of the guidelines' recommendations concerning intensity of below-ground investigation, the number of shovel tests dug for the project's 2008 layout exceeds what would be needed for the 2015 configuration (by 739 shovel test pits).

2.2.3 Previous Investigation Results. Despite the large number of shovel tests dug during the previous investigations for the project, a relatively small number of archaeological resources were identified. Just two precontact-period artifacts were found during the studies – both of which were isolated reduction flake finds – and three historic sites were located at MDS locations (see below). The sparseness of precontact finds is consistent with the hypothesis that the project area in general is not sensitive for precontact-period archaeological resources. The identified historical sites cluster at MDS locations.

2.3 SITE FILE REVIEW AND HISTORICAL MAP RESEARCH

A review of archaeological site files at the New York State Office of Parks, Recreation and Historic Preservation (OPRHP) and the New York State Museum (NYSM) was conducted during the previous investigations for the project and revealed that there were 18 previously identified archaeological sites within five miles of the project area. None were in or near the 2008 or 2013 configurations (see Hanley 2008a:2-14). A review of the OPRHP archaeological site-file database accessed through the New York State Cultural Resource Information System (CRIS) for the current project configuration identified nine archeological sites within one mile of its proposed turbine locations (Table 2.2). Two of these sites are unidentified precontact sites, five are historic Euro-American, and two have no information but are likely precontact. In addition, one historic site was identified during a previous design phase of the project that was not listed in CRIS. None of the sites are in the current physical project area.

Table 2.2. Archaeological sites within approximately one mile of the project area.

| OPRHP Site # | Additional Site # | Distance to APE ft (m) | Time Period | Site Type |
|--------------|----------------------------------|------------------------|--|------------------------------------|
| 01314.000059 | PCI/Ball Hill 1 | 200 (60) | 1867-1900 | Foundation with historic artifacts |
| 01326.000001 | UB 2217; Villenova 3 | 250 | Unidentified precontact | Camp |
| 01326.000004 | UB 2231, Villenova 5 | 5,200 | Unidentified precontact | Camp |
| 01326.000064 | PCI/Ball Hill 2 | 500 | 1867-1900 | Foundation with historic artifacts |
| 01326.000045 | Hamlet Site; UB 2999; NYSM 10774 | 2,850 | 1825-1900 | Foundry debris |
| 01326.000046 | Hotel Site; UB 3026; NYSM 10775 | 2.750 | 1867-1900 | Domestic debris |
| 01326.000047 | Bolt Site; UB 3025; NYSM 10776 | 2.750 | 1867-1900 | Domestic debris |
| | NYSM 1903; Hubbard #1 (CCR 1-1) | 1,975 | No information | Cemetery |
| | NYSM 1904; Hubbard #2 (CCR 2-1) | 2,200 | No information | Mound |
| | PCI/Ball Hill 3 | 300 | Mid-nineteenth century-mid-twentieth century | Domestic debris |

Inspection of historical maps, including Stewart (1867), Beers (1881), and the USGS Cherry Creek (1900) and Silver Creek (1899) topographical quadrangles, conducted during the 2008 investigations revealed that project access roads and collection lines crossed the locations of 20 MDSs. Archaeological survey at these locations identified two historical sites, which were designated PCI/Ball Hill-1 (01314.000059) and PCI/Ball Hill-2 (01326.000064). Project components were redesigned in 2008 to avoid those sites (Hanley et al. 2008a, 2008b). PCI/Ball Hill-1 is roughly 60 meters (200 ft) from one of the current project laydown areas, but close interval shovel testing conducted near the site in 2008 indicates it will not be affected by the project.

The 2013 configuration included several areas in the Town of Villenova that were well outside the archaeological APE of the 2008 layout. Inspection of the historical maps indicated these parts of the project area intersected with two MDS locations. The 2013 report included the investigation of a third MDS (PCI/Ball Hill 3) that was investigated as part of 2012 interim configuration that was later dropped from the 2013 “final” configuration.

Three MDS areas (identified as areas A, B, and C) were investigated as a result of design changes for the 2012/2013 configuration. Area A’s investigation included the excavation of 24 shovel tests, which recovered two historical artifacts. No historical structures, artifact deposits, or other features were noted anywhere in Area A, nor were any prehistoric remains of any kind found. Area B’s investigation included the excavation of 20 shovel tests, which recovered two artifacts. No historical structures, ruins, artifact deposits, or other features were noted anywhere in the project area, nor were any prehistoric remains of any kind found (Smith et al. 20013).

Area C's investigation included the excavation of 26 shovel tests. A total of 59 historical artifacts were found in 14 shovel tests in this area and an additional 27 historical items were found on the surface. The 86 total artifacts comprise 21 architectural items, 64 non-architectural items, and one artifact—an iron bolt—that may belong with either artifact class. No prehistoric remains of any kind were found in Area C. The historical remains found in Area C were designated Site PCI/Ball Hill-3. An OPRHP site form was submitted, but the site is not listed within CRIS. This area was outside the 2013 configuration (Smith et al. 2013) and is also outside the current layout.

The historical maps reviewed for the 2015 project included Keeney (1854), Stewart (1867), Beers (1881), and the USGS Cherry Creek (1900) and Silver Creek (1899) topographical quadrangles. The parts of the project area outside its previous configurations do not cross the locations of any MDSs shown on the maps.

2.4 CONCLUSIONS AND RECOMMENDATIONS

The redesigned configuration of the Ball Hill Wind Project has an area of potential effect that measures 354.8 acres. This APE has 46.2 fewer acres than the area previously surveyed for the Phase 1 investigation of the original 401-acre project design. The APE of the new design crosses similar environmental zone “Local Habitat Areas” as the previously investigated APE. Therefore the results generated by the first investigation are applicable in assessing the archaeological sensitivity of the current APE. No potentially NRHP-eligible archaeological cultural resources have been identified in the current project area. As revealed by the 2008 investigations, the terrain around the project area is typically not sensitive for precontact-period archaeological resources. Although historical-period sites are present, they cluster at the locations of MDSs. Since there are no MDSs in the portions of the current project area outside its previous configurations, it is highly unlikely that historical sites are located there.

Thus, the 2015 configuration of the Ball Hill Wind Project is not considered sensitive for archaeological cultural resources. Sufficient field investigations have been conducted per the New York State Historic Preservation Office *Guidelines for Wind Farm Development Cultural Resources Survey Work*. Panamerican does not recommend any further cultural resources investigations for the current design of the Ball Hill Wind Project.

3.0 References

- Beauchamp, William M.
1900 *Aboriginal Occupation of New York*. New York State Museum Bulletin 7(32). Albany.
- Beers, Frederick W.
1881 *Illustrated Historical Atlas of the County of Chautauqua, New York*. F.W. Beers, New York.
- Funk, Robert E.
1993 *Archaeological Investigations in the Upper Susquehanna Valley, New York State, Volume 1*. Persimmon Press, Buffalo.
- Hanley, Robert J., Michael A. Cinquino, Rebecca J. Emans, and Joseph Kline
2008b *Addendum to the Phase I Cultural Resources Investigation for the Proposed Noble Ball Hill Windpark, Towns of Villenova and Hanover, Chautauqua County, New York (OPRHP #08PR01814)*. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Noble Ball Hill Windpark, LLC, Essex, CT.
- Hanley, Robert J., Mark A. Steinback, Michael A. Cinquino, Rebecca J. Emans, Edwin Button, Sharon Jenkins, and Donald Smith
2008a *Phase I Cultural Resources Investigation for the Proposed Noble Ball Hill Windpark, Towns of Villenova and Hanover, Chautauqua County, New York (OPRHP #08PR01814)*. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Noble Ball Hill Windpark, LLC., Essex, CT.
- Keeney, Collins G.
1854 *Map of Chautauque County*. Collins G. Keeney, Philadelphia. Electronic Document, <http://www.rootsweb.ancestry.com/~nychauta/HISTORY/1854Atlas/WallMapOfChautauquaCounty1854.html>, accessed December 1, 2015.
- Longiaru, Christine M., Kelly M. Mahar, Frank J. Schieppati, Donald Smith, Mark A. Steinback, Michael A. Cinquino, and Martin Wachadlo
2008 *Architectural Survey (Five-mile APE) for the Proposed Noble Ball Hill Windpark, Towns of Villenova and Hanover, Chautauqua County, New York (OPRHP #08PR01814)*. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Noble Ball Hill Windpark, LLC, Essex, CT.
- Longiaru, Christine M., Mark A. Steinback, Donald Smith, and Michael A. Cinquino
2015 *Architectural Survey for the Ball Hill Wind Project, Towns of Villenova and Hanover, Chautauqua County, New York. Addendum #2*. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Ecology & Environment, Inc., Lancaster, NY.
- New York Archaeological Council (NYAC)
1994 *Standards for Cultural Resources Investigations and the Curation of Archaeological Collections in New York State*. New York Archaeological Council, Albany, NY.
- New York State Historic Preservation Office (NYSHPO)
2006 *Guidelines for Wind Farm Development Cultural Resources Survey Work*. New York State Historic Preservation Office, Office of Parks, Recreation and Historic Preservation, Peebles Island, Waterford.
- Parker, Arthur C.
1922 *The Archaeological History of New York*. New York State Museum Bulletin Nos. 235-238. Albany.

- Puglia, Paul S.
1994 *Soil Survey of Chautauqua County, New York*. United States Department of Agriculture, Soil Conservation Service in cooperation with the Cornell University Agricultural Experiment Station. U.S. Government Printing Office, Washington, D.C.
- Ritchie, William A.
1980 *The Archaeology of New York State*. Revised. Harbor Hill Books, Harrison, NY.
- Smith, Donald, Christine M. Longiaru, Frank J. Schieppati, Mark A. Steinback, and Michael A. Cinquino
2013 *Archaeological and Architectural Survey for the Duke Energy Ball Hill Windpark Addendum, Town of Villenova and Hanover, Chautauqua County, New York*. #08PR01814. Panamerican Consultants, Inc., Buffalo Branch, Buffalo. Prepared for Ecology & Environment, Inc., Lancaster, NY.
- Stewart, William
1867 *New Topographical Atlas of Chautauqua County, New York*. William Stewart, Publisher, Philadelphia.
- U.S. Geological Survey (USGS)
1899 *Silver Creek, NY. 15 Minute Series Quadrangle Maps*, U.S. Government Printing Office, Washington, D.C. Historic USGS Maps of New England & New York, Documents Department & Data Center, Dimond Library, University of New Hampshire, Durham. Electronic document, <http://docs.unh.edu/nhtopos/CherryCreek.htm>, accessed December 1, 2015.
- 1900 *Cherry Creek, NY. 15 Minute Series Quadrangle Maps*, U.S. Government Printing Office, Washington, D.C. Historic USGS Maps of New England & New York, Documents Department & Data Center, Dimond Library, University of New Hampshire, Durham. Electronic document, <http://docs.unh.edu/nhtopos/CherryCreek.htm>, accessed December 1, 2015.
- 1960 *Farnham, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.
- 1960 *Silver Creek, New York Quadrangle, 7.5 Minute Series (Topographic)*. U.S. Geological Survey, Department of the Interior, Washington, D.C.
- 1979 [1954] *Forestville, New York Quadrangle, 7.5 Minute Series (Topographic)*. Photorevised. U.S. Geological Survey, Department of the Interior, Washington, D.C.
- 1979 [1954] *Perrysburg, New York Quadrangle, 7.5 Minute Series (Topographic)*. Photorevised. U.S. Geological Survey, Department of the Interior, Washington, D.C.