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PHASE IB ARCHAEOLOGICAL INVESTIGATION OF THE AREA OF POTENTIAL EFFECT FOR THE JEHOVAH'S WITNESS WORLD HEADQUARTERS PROJECT AREA TOWN OF WARWICK, ORANGE COUNTY, NEW YORK

Prepared for:

The Watchtower Bible and Tract Society of New York, Inc.
Brooklyn, New York

Prepared by:

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MANAGEMENT SUMMARY

OPRHP Project Review Number:

Involved State, Federal, and Local Agencies: Town of Warwick Planning Board

Phase of Survey: IB

Location Information
- Location: Town of Warwick
- Minor Civil Division: Village of Tuxedo
- County: Orange

Survey Area: Jehovah's Witnesses World Headquarters Project
- Acreage: Project Area: 253 acres
  Area of Potential Effect: approximately 45 acres

USGS 7.5 Minute Quadrangle Map: Greenwood Lake, New York-New Jersey

Archaeological Survey Overview
- Number and Interval of Shovel Tests: 228 shovel tests at 50-foot intervals

Results of Archaeological Survey:
- Number and name of prehistoric sites identified: None
- Number and name of historic sites identified: 1 – Jehovah's Witnesses Warwick Historic Period Road Remnant

Results of Architectural Survey
- Number of buildings/structures/cemeteries within project area: 0
- Number of buildings/structures/cemeteries adjacent project area: 0
- Number of previously determined NR listed or eligible buildings/ structures/cemeteries/districts within project area: 0
- Number of identified eligible buildings/structures/cemeteries/ districts adjacent project area: 0

Report Author: Eugene J. Boesch Ph.D., R.P.A.

Date of Report: August 25, 2011

1.0 INTRODUCTION

This report presents the results of a Phase IB archaeological investigation of the archaeologically sensitive portions of the area of potential effect (APE) for the Jehovah's Witnesses World Headquarters project property, located along Long Meadow Road in the Town of Warwick, Orange County, New York (Figures 1 - 3). The legal address of the property is 1 Kings Drive, Tuxedo Park, New York, 10987. It is identified on Orange County tax maps as parcels 85-1-2-2.22, 85-1-2.3, 85-1-4.1, 85-1-5.1, 85-1-5.2, and 85-1-6.8.

The project's approximately 45-acre APE is part of an approximately 253-acre property (referred to in this report as the Warwick property) owned by the Watchtower Bible and Tract Society of New York, Inc. The Society is the representative organization for the body of Christians known as Jehovah's Witnesses, a domestic-not-for profit corporation. The Warwick property will become the site of the world headquarters for the Society. The property is divided into two parcels (east and west) separated by Long Meadow Road (Figures 1-2) with the project's APE situated within the property's western parcel. The eastern parcel will not be impacted by the current project and was not investigated as part of this study. The study was requested by the Watchtower Bible and Tract Society of New York, Inc. The property, including the APE, was acquired by the Society on July 17, 2009, and is a privately owned parcel within Sterling Forest State Park.

The Warwick property and its APE are located just south of Sterling Forest Lake, a manmade lake, about a mile north of the intersection of Long Meadow Road and Sterling Mine Road. The New York - New Jersey State border is located about a quarter mile south of the project property. The border between the Warwick and Tuxedo Park is located about two and a quarter miles to the east of the Warwick property.

The Phase IB archaeological study has been conducted and this document prepared in accordance with the United States Secretary of the Interior's standards for archaeological surveys and the guidelines and standards currently adopted by the New York State Office of Parks, Recreation, and Historic Preservation (New York Archaeological Council 1994, 2000; New York State Office of Parks, Recreation and Historic Preservation 2005). The objectives of the study are to determine whether Pre-Contact period and/or Historic period archaeological resources are present within the archaeologically sensitive portion of the project's APE and to recommend any necessary further investigations.

1.1 Background

On July 16, 2010, a report was submitted to the Watchtower Bible and Tract Society of New York, Inc., presenting the results of a Phase IA archaeological investigation of the proposed APE for the Jehovah's Witnesses World Headquarters project (Figures 1 – 2; Boesch 2010). The Phase IA report stated that portions of the APE were sensitive for the presence of Native American and Historic period archaeological sites. In terms of Pre-Contact period archaeological resources, the report states that (Boesch 2010:27):

> Pre-Contact period sites have not been recorded within the proposed Jehovah's Witnesses World Headquarters project property or its immediate vicinity. Sites that have been recorded in the region are restricted in location to raised ground overlooking some of the area's rivers and wetland. Such areas of high ground overlooking watercourses traditionally have been considered sensitive for the presence of Native American sites.
>
> The current and former environmental setting of most of the current project area is similar to that of known archaeological sites. Specifically, these are the property's terrace-like locations and other relatively level, raised areas overlooking the valley that now contains Sterling Forest Lake, its outlet stream, and adjoining wetlands. Such locations within the current APE, where undisturbed, are considered to be sensitive for the presence of Pre-Contact period archaeological resources.

The report also indicates that the portions of the APE immediately south of Sterling Forest Lake have been

disturbed as a result of the construction of the International Nickel Company facility during the early 1960's. Numerous multi-story buildings associated with the facility are present there. Their location constitutes the developed portion of the APE. The amount of construction that has occurred there would have disturbed or destroyed any Pre-Contact period sites that may have been present. Accordingly, this portion of the APE was not investigated as part of the Phase IB investigation (Figure 2).

In terms of Historic period archaeological resources, the report states that (Boesch 2010:27-28):

> Portions of the current APE fronting onto Long Meadow Road or its vicinity within the project's western parcel are considered to be sensitive for Historic period archaeological resources associated with the mid to late nineteenth century Sterling Works. The Sterling Works was an iron producing community established in 1847-1848 by the Sterling Company. The Works included a furnace and forge, a number of support structures (Church, store, shop etc.), worker residences, and associated outbuildings. Many of the community's structures were located east of Long Meadow Road and will not be impacted by the proposed development project. Some of the associated structures, however, formerly were located within the current project's APE fronting onto what is now the west side of Long Meadow Road or its vicinity.
>
> The former vicinities of these structures appear to be relatively undisturbed and it is possible that sub-surface features, deposits or other stratigraphic evidence for them, or the activities that occurred within and around them, may remain.

The project's APE as presented in the Phase IA report has been revised since the date of that report (2010). The areas of Historic period sensitivity fronting onto the west side of Long Meadow Road (discussed above) are no longer located within the project's APE as currently defined and were not tested by this Phase IB investigation.

The Phase IA report recommended that Phase IB level sub-surface investigation consisting of the excavation of archaeological shovel tests be conducted following current New York State Office of Parks, Recreation, and Historic Preservation standards within the archaeologically sensitive portions of the APE for the project (Boesch 2010:27-28). The tested portions of the APE are indicated on Figure 2.

1.2 Description of the Area of Potential Effect for the Proposed Jehovah's Witnesses World Headquarters Project

The project property consists of approximately 7.8 acres of meadow/brush land; 228.8 acres of forest; 0.7 acres of wetland; 7.8 acres of roads, pavement, structures, and other paved surfaces; and 8.9 acres of landscaped areas. The project's APE consists of 45 acres of the 253-acre project property, located within the tract's western parcel. Approximately 6.8 acres of the 45-acre APE have been previously disturbed by the construction of paved roads, walkways, and structures as well as the installation of utilities and landscaping of the area. The 6.8 acres were not archaeologically tested during this Phase IB investigation. This development was associated with the International Nickel Company's use of the property (see below).

The property's western parcel (and the APE – see Figures 4-12) is situated along portions of the bottom land and western margin of a small valley containing a creek that formerly served as an outlet for Little Cedar Pond, located northwest of the project area. The creek now serves as the outlet for Sterling Forest Lake brook and is an intermittent tributary of the Ringwood River. The creek was dammed in 1956, flooding the portion of the valley located north and northwest of the project area, forming Sterling Forest Lake, which the project's APE now overlooks. The creek flows away from the lake passing beyond Long Meadow Road into the project area's eastern parcel (Figures 1 and 2). Wetlands border the creek within the project area, including the APE. A number of intermittent streams also extend through the project's western parcel, emptying into the outlet creek or Ringwood Creek. As indicated above, before the creek was dammed, it served as the outlet for Little Cedar Pond, located northwest of the project area. The pond's outlet stream now empties into Sterling Forest Lake. A long artificially produced depression extends southward from the existing property access road to the APE boundary (i.e., the transmission line right of way), a distance of about 325 feet, and beyond, extending between

the proposed sites of building numbers 21 and 24 and south of building number 23 (Figures 11-12). The depression is oriented at approximately 138 degrees. It is about 10 to 12 feet wide and three to four feet deep. It continues across the transmission line right of way, extending for at least 600 yards beyond up the adjoining hillside where it runs in part between fieldstone walls. The depression splits into two gully-like features near the right-of-way with the second depression heading to the southwest. The depressions appear to be primitive, remnant roadway sections, extending north to south, possibly extending between the Sterling Iron Works, located north of the project area, and late eighteenth and nineteenth century iron mines, located south of the APE). Alternatively, the apparent roadway sections may be remnant farm roads or logging roads, or served all the purposes mentioned. The relatively deep depth of the roadways, however, suggest substantial, long-term use, most likely during the late eighteenth and nineteenth century period. Archaeological testing within the depression as part of this investigation did not recover any cultural material and revealed stratigraphic sequences similar to what was seen away from them.

The eastern parcel of the project area (located outside of the APE) consists of valley bottomland for Ringwood Creek. The bottomland is covered by forest and wetlands. The land rises to the east and is forested and brush covered.

The terrain within the Warwick property increases in elevation as one moves west/northwest. The slope is more gradual in the eastern portions of the property but increases quickly in the western part. Elevations within the parcel range between approximately 600 and 840 feet above mean sea level (Figures 1 and 2). The APE is situated primarily on relatively level to gently sloping terraces situated along both sides of Sterling Forest Brook.

Most of the Warwick property, including most of the undisturbed part of the APE, is wooded with areas of scrub and wetland vegetation. Some development occurred on the parcel during the 1950's, with Sterling Forest Lake created in 1956. The International Nickel Company (INC) owned the property between 1960 and 1987, constructing a headquarters office and research and development facility and access road within a large (6.8 acre) portion of the current APE between 1962 and 1964 (Figure 2). The INC facility included a large number of office and research related buildings, maintenance structures, above- and below-ground water tanks, paved parking and access roads, and below- and aboveground utilities. Portions of the facility grounds also were landscaped.

The research and development at the INC facility was related to metal plating processes. Production did not occur there. From 1987 to 1991, the facility remained unoccupied. In 1991, King's College acquired the site with the intention of converting it into a college campus (The Saratoga Associates 1993). That use of the site never came to fruition. In addition to the former INC facility, a high-tension power line and its right-of-way extend through the project's western parcel (Figures 1 and 2).

1.3 Proposed Project Impacts

Ground disturbance in the approximately 45-acre APE will generally occur within the existing, 6.8-acre developed portion of the Warwick property, formerly occupied by INC, and immediately adjoining areas (Figure 2). Ground disturbance will result from demolition of the existing site buildings and construction of a religious administrative campus comprised of approximately 8 buildings at a maximum height of 60 feet. The buildings will include approximately 456,000 square feet of total building area for the Administration Offices/Services Building, which includes kitchen, laundry, and support services, with a public entry lobby, and auditorium. Also proposed are four 3-to-5 story residence buildings totaling approximately 494,000 square feet accommodating up to 588 residential units; a 427,000-square-foot maintenance and resident parking building; a vehicle maintenance building for on-site vehicles with 35,000 square feet of total building area. The site will contain a total of approximately 870 covered parking spaces with approximately 150 surface spaces in addition to parking for up to 13 buses. Several small accessory buildings, totaling less than 8,000 square feet, will be distributed within the general development area for recreation, waste separation, visitor conveniences, and maintenance areas. Stormwater retention basins also will be constructed. New road construction, installation of utilities, and landscaping also will occur within the APE (Figure 2).

1.4 Methodology

The Phase IB testing of the archaeologically sensitive portions of the APE consisted of the excavation of 228 archaeological shovel tests (Figure 2). The shovel tests typically covered approximately 0.75 square meters (2.5 square feet) of ground surface and were extended to depths below which naturally occurring, culturally sterile, sub-soil was encountered. Each shovel test was excavated stratigraphically. The purpose of the shovel tests was to determine whether archaeological deposits and/or Native American artifacts were present in the tested area. All soil removed from the shovel tests was screened through 1/4 inch mesh (hardware cloth) to detect the presence of artifacts. Separation of artifacts from different stratigraphic contexts was maintained to the extent possible with the procedures used.

Artifacts were returned to the laboratory where they were washed, tabulated, and placed in plastic bags labeled according to provenience. Appendix A to the report lists the stratigraphy encountered in each test and the artifacts recovered from each stratigraphic context. Appropriate metrics are provided for the artifacts. Shovel test locations are shown on Figure 2 with each shovel test identified by a number (1 – 228). The testing strategy involved the placement of shovel tests at approximately 50-foot intervals within the archaeologically sensitive portions of the APE. In locations where tests revealed the presence of Native American activity or Historic period deposits or features, the methodology required additional shovel tests to be excavated in the immediately surrounding area to further investigate those locations. The additional tests were to be excavated at the cardinal locations surrounding the spot of the initial shovel test find at five and 10-foot intervals. The placement of additional tests did not prove to be necessary as part of the sub-surface testing. Although topographic indications for a Historic period road were identified by the fieldwork, sub-surface testing within that feature did not recovery any artifacts or roadway structural elements.

The first stage of analysis consisted of laboratory processing of the artifacts recovered. Each artifact was cleaned, examined, and identified as to type, function, cultural affiliation, and period of manufacture where possible. The cleaned artifacts were placed in labeled plastic bags.

The second stage of analysis consisted of studying the stratigraphy encountered by the shovel tests in conjunction with the artifacts recovered in order to interpret the survey results.

Appendix B indicates the locations of the photographic views included in this report as Figures 4-12.

2.0 RESULTS OF FIELD TESTING

2.1 Introduction

Sub-surface testing of the archaeologically sensitive portions of the APE for the Jehovah's Witnesses World Headquarters project was aimed at detecting any possibly significant deposits associated with Pre-Contact period or Historic period utilization of the area that may be present. Any Native American materials most likely would be associated with small unrecorded campsites oriented towards the exploitation of subsistence resources associated with Ringwood Creek or its adjoining wetlands, its tributaries, and/or valley. The most likely setting for such camp sites is the terrace-like areas and other raised ground bordering what is now Sterling Forest Lake. The presence of deeply buried Pre-Contact period archaeological sites within the tested area was considered unlikely by the previously completed Phase IA report for project area (Boesch 2010: 7-8). The tested area also is considered to be sensitive for Historic period archaeological resources associated with the Sterling Works Iron Foundry (see Boesch 2010:27-28).

Two hundred and twenty-eight (228) archaeological shovel tests were excavated within the sensitive portions of the APE (Figure 2). In general, the testing strategy involved the placement of shovel tests at approximately 50-foot intervals within the archaeologically sensitive portion of the APE. The 6.8 acre part of the 45-acre APE that was previously developed by the International Nickel Company was not tested. The purpose of the tests was to determine the stratigraphic sequence present within the tested area and discover whether any Pre-Contact period artifacts were associated with those strata.

The stratigraphy encountered in each sub-surface test excavated during the field testing and an inventory of the artifacts recovered are presented in Appendix A.

2.2 Field Results

Four similar stratigraphic sequences were encountered by the 228 shovel tests excavated for this Phase IB study Figure 2). One of the sequences was encountered in 62 shovel tests (numbers 1-4, 10-13, 19-22, 37-40, 48-50, 176-183, 186-193, 196-203, 206-213, 216-223, and 226-228). The second sequence was seen in 143 shovel tests (numbers 5-9, 14-18, 23-36, 41-47, 51-137, 145-149, 152-155, 157-160, 174-175, 184-185, 194-195, 204-205, 214-215, and 224-225). The third sequence was seen in 20 shovel tests (numbers 138-144 and 161-173). The fourth sequence was seen in three shovel tests (Number 150-151 and 156). The nature of the stratigraphy was similar in each of the tests excavated and generally indicated the presence of naturally occurring soil that formed over naturally occurring glacially deposited till layers (i.e. the sub-soil) in a wooded upland setting. The exception to this was in seen in shovel tests 150-151 and 156 where the initially stratum encountered consisted of artificially planted sod. Soils below the sod were naturally formed layers. No indication of a plow zone or other agricultural/cultivation layer was identified by the testing. This is not surprising given the rocky nature of the project area which would have made cultivation farming difficult if not impossible. Only a limited quantity of relatively recently manufactured artifacts, as well as modern mammal bone and coal and slag were recovered by the shovel testing.

2.2.1 Shovel Tests Numbers 1-4, 10-13, 19-22, 37-40, 48-50, 176-183, 186-193, 196-203, 206-213, 216-223, and 226-228

The initial two to three inches seen in shovel test numbers 1-4, 10-13, 19-22, 37-40, 48-50, 176-183, 186-193, 196-203, 206-213, 216-223, and 226-228 consisted of relatively recently developed black sandy silt humus, (Stratum I). Below it was a one to 11 inch thick layer of dark brown sandy silt (Stratum II). Stratum II represents a naturally developed woodland soil. Beneath Stratum II, at 11 to 16 inches below grade, was encountered the culturally sterile sub-soil which in these 62 shovel tests was a light brown sandy silt, occasionally associated with rocks and gravel (Stratum III), that was excavated to between 11 and 16 inches below grade. Cultural material recovered from these shovel tests consist of limited quantities of coal from Stratum I in shovel test 2 and modern glass from Stratum I in shovel test 76 and from Stratum II in shovel tests

11, 19, and 219.

2.2.2 Shovel Tests Numbers 5-9, 14-18, 23-36, 41-47, 51-137, 145-149, 152-155, 157-160, 174-175, 184-185, 194-195, 204-205, 214-215, and 224-225

The stratigraphic sequence seen in these 143 shovel tests was similar to that seen in the shovel tests discussed in Chapter 2.2.1 with the exception that the color of the naturally occurring sub-soil was different.

The initial two to three inches seen in shovel test numbers 138-144 and 161-173 consisted of relatively recently developed black sandy silt humus (Stratum I) that was one to three inches thick. Below it was a one to 15 inch thick layer of dark brown sandy silt (Stratum II) that represents a naturally developed woodland soil. Beneath Stratum II, at three to 17 inches below grade, was encountered the culturally sterile sub-soil which in these 143 shovel tests was a yellow brown sandy silt (Stratum III). The layer was excavated to between 15 and 18 inches below grade. Cultural material recovered from these shovel tests consist of limited quantities of plastic from Stratum I in shovel tests 25 and 178, a crown type bottle cap from Stratum I in shovel test 44, modern glass from Stratum I in shovel tests 47 and 112 and from Stratum II in shovel test 195, slag from Stratum II in shovel test 55, modern, small mammal bone from Stratum I in shovel test 67 and Stratum II in shovel test 156, wire nails from Stratum I in shovel test 124 and from Stratum II in shovel test 85, coal from Stratum II in shovel test 90, and cut wood from Stratum II in shovel test 101.

2.2.3 Shovel Tests Numbers 138-144 and 161 –173

The stratigraphic sequence seen in these 20 shovel tests was similar to that seen in the shovel tests discussed in Chapter 2.2.1 with the exception that the color of the naturally developed human was different.

The initial two to three inches seen in shovel test numbers 138-144 and 161-173 consisted of relatively recently developed gray brown sandy silt humus (Stratum I). Below it was a three to 12 inch thick layer of brown sandy silt (Stratum II) that represents a naturally developed woodland soil. Beneath Stratum II, at six to 14 inches below grade, was encountered the culturally sterile sub-soil which in these 20 shovel tests was a light brown sandy silt (Stratum III). The layer was excavated to between 10 and 17 inches below grade. The only artifact recovered from these shovel tests consist of a fragment of oxidized metal from Stratum II in shovel test 138.

2.2.4 Shovel Tests Numbers 150-151 and 156

The stratigraphic sequence seen in these three shovel tests was similar to that seen in the shovel tests discussed in Chapter 2.2.1 with the exception that the near surface soil layer was sod. The tests were located at the western periphery of the existing but abandoned International Nickel related structures at the site. Its presence likely was the result of landscaping associated with the operation of the facility.

The initial two to three inches seen in shovel test numbers 150-151 and 156 consisted of relatively recently developed sod (Stratum I). Below it was a three to 12 inch thick layer of brown sandy silt (Stratum II) that represents a naturally developed woodland soil. Beneath Stratum II, at seven to nine inches below grade, was encountered the culturally sterile sub-soil which in these three shovel tests was a light brown sandy silt (Stratum III). The layer was excavated to between 10 and 14 inches below grade. No cultural material was recovered from these three shovel tests.

2.2.5 Road Remnant Feature

Shovel tests 42, 75, and 79 were excavated within the apparent remnant road section which is seen as a distinct topographic feature on the APE landscape (see Figures 2, 11, and 12). The primitive road section splits into two tracks within the APE before continuing south and southwest beyond the APE and extending up the hill located south of the project area. The description of the stratigraphy revealed in these tests in discussed in Chapter 2.2.2.

No stratigraphic or structural indications of road bedding or other elements associate with a roadway were identified by the testing. As indicated in Chapter 1, the road likely served as a mine road, logging road, and/or farm road during all or part of the late eighteenth through nineteenth century period. No cultural material was found to be associated with the recessed road section other than the artificially formed topographic depression feature itself.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Sub-surface testing within the archaeologically sensitive portions of the area of potential effect (APE) for the Jehovah's Witnesses World Headquarters project area, located along Long Meadow Road in the Town of Warwick, Orange County, New York, did not encounter any domestic type Historic period or Pre-Contact period sites of potential significance (Figures 2 and 3). In addition, no isolated Pre-Contact period or domestic type Historic period artifacts were recovered by the sub-surface testing. Other than coal and slag, all of the artifacts found were of relatively recent manufacture or creation (glass, metal, crown type bottle cap, plastic, nails, and small mammal bone).

Although a domestic type Historic period archaeological site was not identified by the sub-surface testing, a recessed topographic feature was identified that has potential historic importance. The primitive, recessed feature is an apparent remnant section of depressed roadway that likely served as a mine road, logging road, and/or farm road during all or part of the late nineteenth century through nineteenth century period. Its route splits into two tracks within the APE before continuing south and southwest beyond the APE and extending up the hill to the project area's south. An examination of the section of the road beyond the APE revealed stone walls bordering the road feature. The road apparently connected the Sterling Iron Works, located north of the APE, with iron mines and scattered houses formerly located south of the project area. No cultural material, other than the artificially formed road section itself, was found to be associated with the road by the shovel testing. In addition, no structural element, such as bedding for the road, was identified by the shovel testing. The stratigraphy revealed within the recessed road by the testing was similar to that found in other portions of the APE (see below- humus overlying naturally formed soils and glacially deposited sub-soil).

Four similar stratigraphic sequences were encountered by the 228 shovel tests excavated for this Phase IB study. The nature of the stratigraphy in each of the excavated tests generally indicated the presence of naturally occurring near surface soils that formed over naturally occurring glacially deposited till (i.e., the sub-soil) within a wooded upland setting. In one small area in the northwestern part of the tested area was encountered artificially planted grass at the surface. The grassy surface relates to landscaping of the area associated with the occupation of the International Nickel facility, now abandoned that still exists on the project property.

No indication of a plow zone or other agricultural/cultivation layer was identifying by the testing. This is not surprising given the rocky nature of the project area which would have made cultivation farming difficult if not impossible.

3.2 Recommendations

Based upon the results of the fieldwork, it is recommended that the route of the recess roadway section be mapped by a qualified surveyor on a project area map of appropriate scale. Further sub-surface testing should be conducted along the route of the road. The testing should consist of archaeologically shovel tests at 25-foot intervals. If artifact deposits are identified by the shovel testing they should be appropriately sampled by one or more small excavation units. If artifact bearing layers are not identified by the shovel testing, excavation of the small test units would not be necessary. Further documentary research may reveal the period of origin and operation of the roadway and what communities it served. Additional photographs also should be taken of the road section. A New York State Office of Parks, Recreation and Historic Preservation Historic Period Archaeological Site number should be acquired from that agency and its Historic Period Archaeological Site Form completed and submitted to them for the remnant Historic road section.

Additional archaeological investigations are not warranted for other, remaining portions of the proposed Jehovah's Witnesses World Headquarters Project's Area of Potential Effect.

4.0 REFERENCES CITED

Boesch, Eugene

2010 Phase IB Archaeological Investigation of the Area of Potential Effect for the Jehovah's Witnesses World Headquarters Project, Town of Warwick, Orange County, New York State. Prepared for the Watchtower Bible and Tract Society of New York, Inc., Brooklyn New York.

New York State Archaeological Council

1994 Standards for Cultural Resource Investigations and the Curation of Archaeological Collections in New York State. The New York Archaeological Council. Standards adopted by the New York State Office of Parks, Recreation, and Historic Preservation.

2000 Cultural Resource Standards Handbook. Guidance for Understanding and Applying the New York State Standards for Cultural Resource Investigations. The New York Archaeological Council. Standards adopted by the New York State Office of Parks, Recreation, and Historic Preservation.

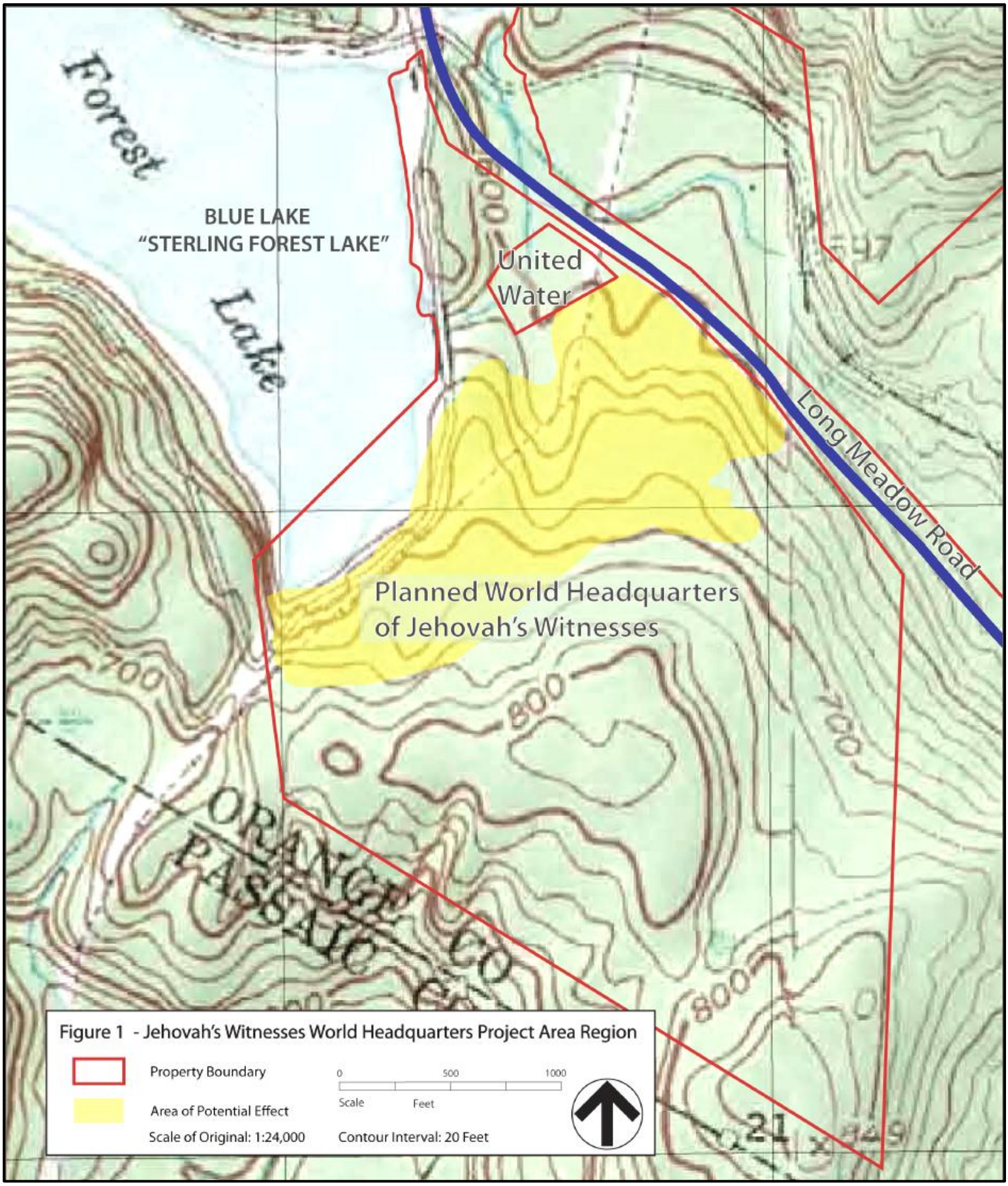
New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP)

2005 New York State Historic Preservation Office (SHPO) Archaeological Report Format Requirements. Prepared by the New York State Office of Parks, Recreation and Historic Preservation, Waterford, New York.

United States Geological Survey

1969 Greenwood Lake, New York, 7.5 Minute Series (Topographic). United States Department of the Interior, Geological Survey, Washington, D.C. Photo revised 1981.

FIGURES


Forest
BLUE LAKE
"STERLING FOREST LAKE"
Lake
United
Water
Long Meadow Road
Planned World Headquarters
of Jehovah's Witnesses
700
800
700
800
800
ORANGE
PASSAIC CO
Figure 1 - Jehovah's Witnesses World Headquarters Project Area Region
Property Boundary
Area of Potential Effect
Scale of Original: 1:24,000
0
500
1000
Scale
Feet
Contour Interval: 20 Feet

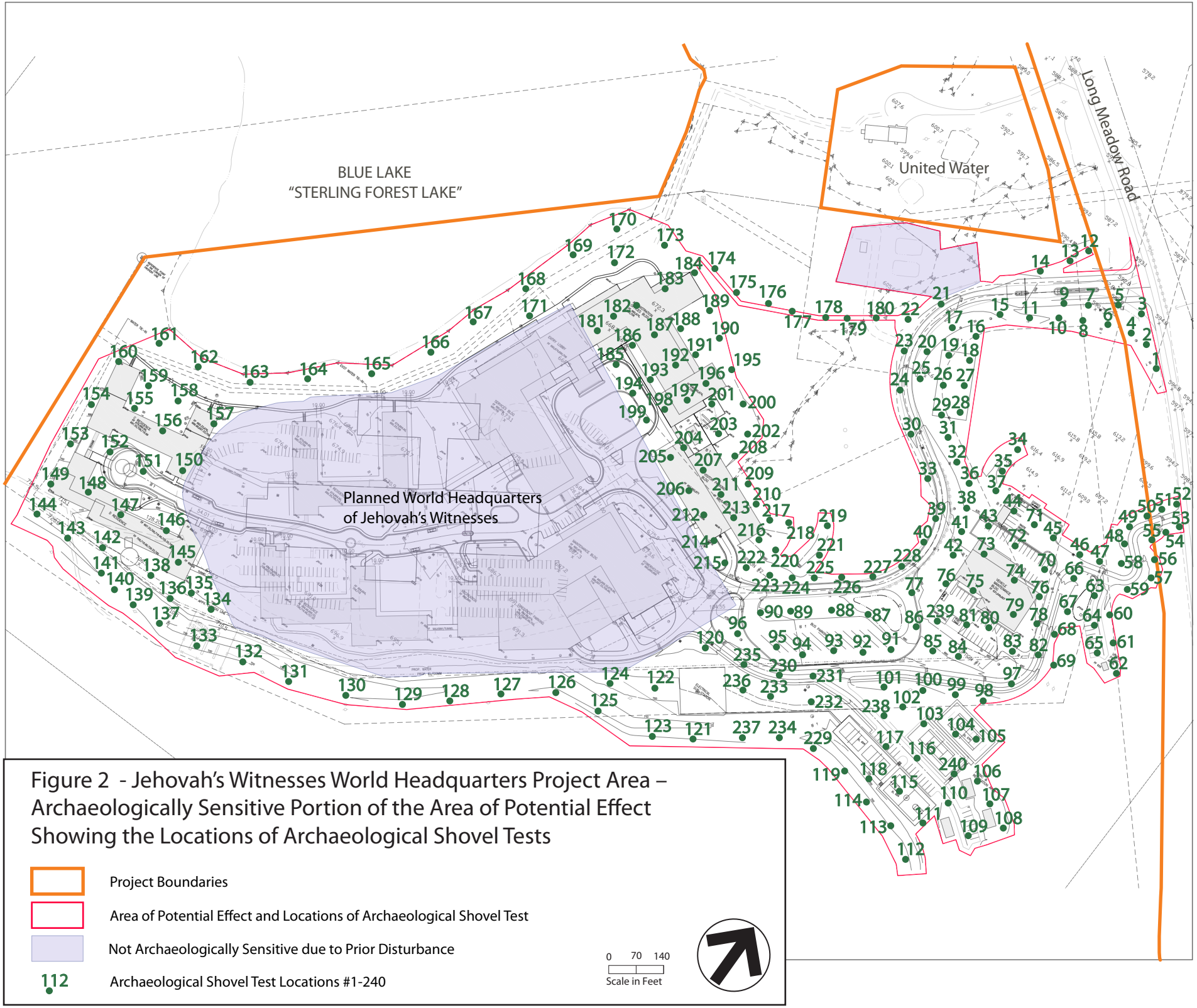


Figure 2 - Jehovah's Witnesses World Headquarters Project Area – Archaeologically Sensitive Portion of the Area of Potential Effect Showing the Locations of Archaeological Shovel Tests

- Project Boundaries
- Area of Potential Effect and Locations of Archaeological Shovel Test
- Not Archaeologically Sensitive due to Prior Disturbance
- 112 Archaeological Shovel Test Locations #1-240

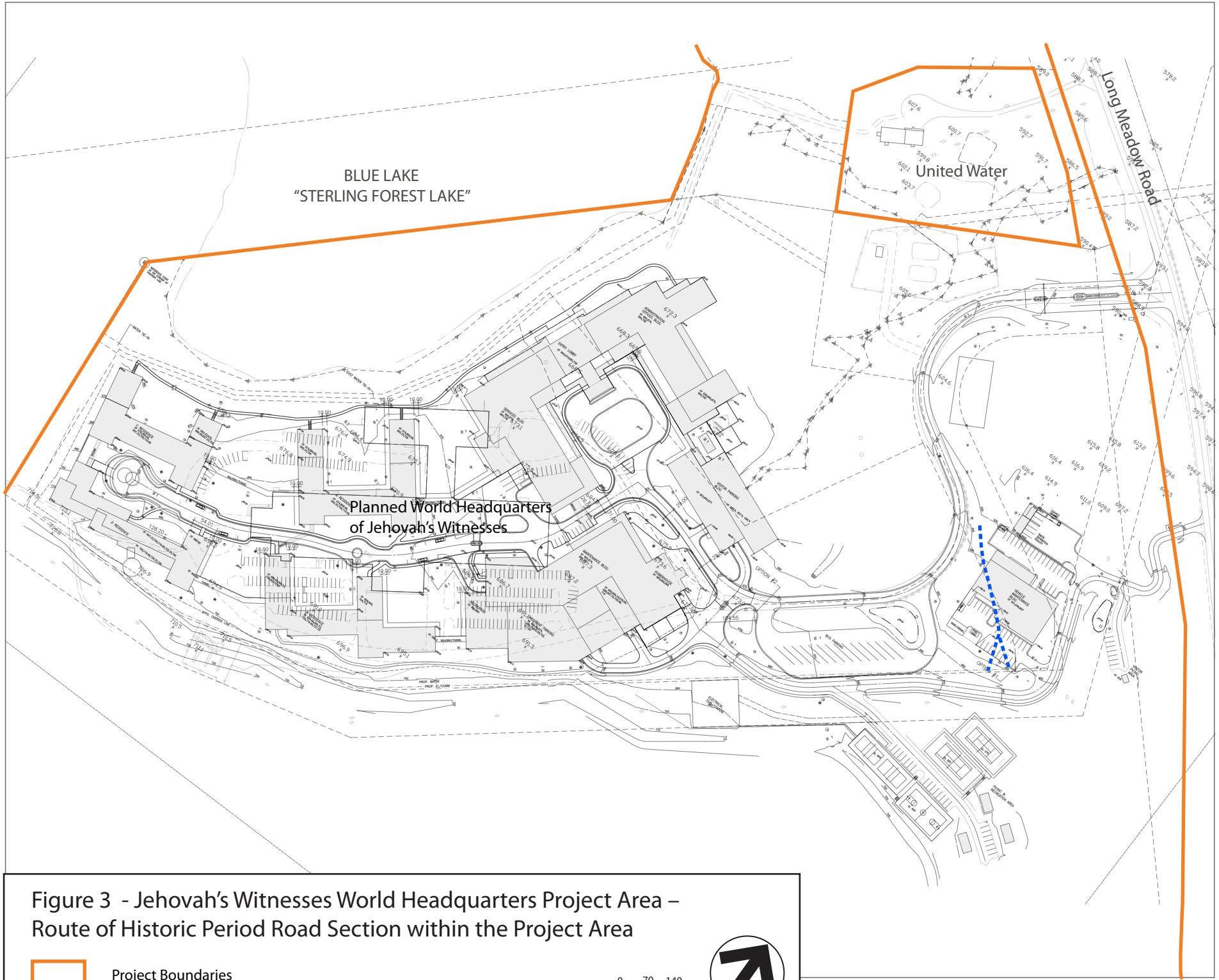


Figure 3 - Jehovah's Witnesses World Headquarters Project Area – Route of Historic Period Road Section within the Project Area

Project Boundaries

Historic Period Road Section

0 70 140

Scale in Feet

APPENDIX A

SHOVEL TEST STRATIGRAPHY AND ARTIFACT INVENTORY

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
1	I	0-2	Black Sandy Silt	Modern Surface Layer	None
1	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
1	III	12-15	Light Brown Sandy Silt with Rocks	Sub-soil	None
2	I	0-2	Black Sandy Silt	Modern Surface Layer	2 fragments coal (wt.: 3.2 grams)
2	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
2	III	4-14	Light Brown Silty Sand with Gravel	Sub-soil - near erosional run-off feature	None
3	I	0-2	Black Sandy Silt	Modern Surface Layer	None
3	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
3	III	4-14	Light Brown Sandy Silt with Rocks	Sub-soil	None
4	I	0-2	Black Sandy Silt	Modern Surface Layer	None
4	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
4	III	4-16	Light Brown Sandy Silt with Rocks	Sub-soil	None
5	I	0-2	Black Sandy Silt	Modern Surface Layer	None
5	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
5	III	12-18	Yellow Brown Sandy Silt	Sub-soil	None
6	I	0-2	Black Sandy Silt	Modern Surface Layer	None
6	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
6	III	12-17	Yellow Brown Sandy Silt	Sub-soil	None
7	I	0-2	Black Sandy Silt	Modern Surface Layer	1 fragment orange surveyor's flagging
7	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
7	III	12-18	Yellow Brown Sandy Silt	Sub-soil	None
8	I	0-2	Black Sandy Silt	Modern Surface Layer	None
8	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
8	III	112-18	Yellow Brown Sandy Silt	Sub-soil	None
9	I	0-2	Black Sandy Silt	Modern Surface Layer	None
9	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
9	III	12-17	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
10	I	0-2	Black Sandy Silt	Modern Surface Layer	None
10	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
10	III	13-15	Light Brown Sandy Silt	Sub-soil	None
11	I	0-2	Black Sandy Silt	Modern Surface Layer	None
11	II	2-5	Dark Brown Sandy Silt	Naturally Developed Soil	1 fragment clear glass
11	III	5-14	Light Brown Silty Sand	Sub-soil	None
12	I	0-2	Black Sandy Silt	Modern Surface Layer	None
12	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
12	III	4-16	Light Brown Sandy Silt	Sub-soil	None
13	I	0-2	Black Sandy Silt	Modern Surface Layer	None
13	II	2-3	Dark Brown Sandy Silt	Naturally Developed Soil	None
13	III	3-16	Light Brown Sandy Silt	Sub-soil	None
14	I	0-2	Black Sandy Silt	Modern Surface Layer	None
14	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
14	III	13-18	Yellow Brown Sandy Silt	Sub-soil	None
15	I	0-2	Black Sandy Silt	Modern Surface Layer	None
15	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
15	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None
16	I	0-2	Black Sandy Silt	Modern Surface Layer	None
16	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
16	III	2-18	Yellow Brown Sandy Silt	Sub-soil	None
17	I	0-2	Black Sandy Silt	Modern Surface Layer	None
17	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
17	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
18	I	0-2	Black Sandy Silt	Modern Surface Layer	None
18	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
18	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
19	I	0-3	Black Sandy Silt	Modern Surface Layer	None
19	II	3-13	Dark Brown Sandy Silt	Naturally Developed Soil	2 fragments amber tinted bottle glass
19	III	13-14	Light Brown Sandy Silt with Rocks	Sub-soil	None
20	I	0-2	Black Sandy Silt	Modern Surface Layer	None
20	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
20	III	4-15	Light Brown Silty Sand	Sub-soil -	None
21	I	0-2	Black Sandy Silt	Modern Surface Layer	None
21	II	2-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
21	III	5-16	Light Brown Sandy Silt with Rocks	Sub-soil	None
22	I	0-1	Black Sandy Silt	Modern Surface Layer	None
22	II	1-3	Dark Brown Sandy Silt	Naturally Developed Soil	None
22	III	3-16	Light Brown Sandy Silt with Rocks	Sub-soil	None
23	I	0-1	Black Sandy Silt	Modern Surface Layer	None
23	II	1-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
23	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None
24	I	0-2	Black Sandy Silt	Modern Surface Layer	None
24	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
24	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
25	I	0-2	Black Sandy Silt	Modern Surface Layer	1 fragment green plastic
25	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
25	III	2-16	Yellow Brown Sandy Silt	Sub-soil	None
26	I	0-2	Black Sandy Silt	Modern Surface Layer	None
26	II	2-17	Dark Brown Sandy Silt	Naturally Developed Soil	None
26	III	17-18	Yellow Brown Sandy Silt	Sub-soil	None
27	I	0-2	Black Sandy Silt	Modern Surface Layer	None
27	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
27	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
28	I	0-3	Black Sandy Silt	Modern Surface Layer	None
28	II	3-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
28	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
29	I	0-2	Black Sandy Silt	Modern Surface Layer	None
29	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
29	III	4-17	Yellow Brown Sandy Silt	Sub-soil	None
30	I	0-3	Black Sandy Silt	Modern Surface Layer	None
30	II	3-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
30	III	5-17	Yellow Brown Sandy Silt	Sub-soil	None
31	I	0-2	Black Sandy Silt	Modern Surface Layer	None
31	II	2-3	Dark Brown Sandy Silt	Naturally Developed Soil	None
31	III	3-14	Yellow Brown Sandy Silt	Sub-soil	None
32	I	0-1	Black Sandy Silt	Modern Surface Layer	None
32	II	1-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
32	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
33	I	0-2	Black Sandy Silt	Modern Surface Layer	None
33	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
33	III	13-16	Yellow Brown Sandy Silt	Sub-soil	None
34	I	0-2	Black Sandy Silt	Modern Surface Layer	None
34	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
35	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None
35	I	0-2	Black Sandy Silt	Modern Surface Layer	None
35	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
35	III	15-18	Yellow Brown Sandy Silt	Sub-soil	None
36	I	0-2	Black Sandy Silt	Modern Surface Layer	None
36	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
36	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
37	I	0-2	Black Sandy Silt	Modern Surface Layer	None
37	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
37	III	14-16	Light Brown Sandy Silt	Sub-soil	None
38	I	0-3	Black Sandy Silt	Modern Surface Layer	None
38	II	3-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
38	III	4-16	Light Brown Silty Sand	Sub-soil	None
39	I	0-3	Black Sandy Silt	Modern Surface Layer	None
39	II	3-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
39	III	4-16	Light Brown Sandy Silt with Rocks	Sub-soil	None
40	I	0-3	Black Sandy Silt	Modern Surface Layer	None
40	II	3-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
40	III	5-15	Light Brown Sandy Silt	Sub-soil	None
41	I	0-3	Black Sandy Silt	Modern Surface Layer	None
41	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
41	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
42	I	0-2	Black Sandy Silt	Modern Surface Layer	None
42	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
42	III	13-16	Yellow Brown Sandy Silt	Sub-soil	None
43	I	0-2	Black Sandy Silt	Modern Surface Layer	None
43	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
43	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
44	I	0-2	Black Sandy Silt	Modern Surface Layer	1 crown type bottle cap
44	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
44	III	14-16	Yellow Brown Sandy Silt	Sub-soil	None
45	I	0-2	Black Sandy Silt	Modern Surface Layer	None
45	II	2-16	Dark Brown Sandy Silt	Naturally Developed Soil	None
45	III	16-17	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
46	I	0-4	Black Sandy Silt	Modern Surface Layer	None
46	II	4-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
46	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None
47	I	0-2	Black Sandy Silt	Modern Surface Layer	1 fragment clear glass
47	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
47	III	4-15	Yellow Brown Sandy Silt	Sub-soil	None
48	I	0-3	Black Sandy Silt	Modern Surface Layer	None
48	II	3-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
48	III	4-15	Light Brown Sandy Silt with Rocks	Sub-soil	None
49	I	0-3	Black Sandy Silt	Modern Surface Layer	None
49	II	3-15	Dark Brown Sandy Silt	Sub-soil	None
49	III	15-20	Light Brown Sandy Silt	Sub-soil	None
50	I	0-3	Black Sandy silt	Modern Surface Layer	
50	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
50	III	6-15	Light Brown Sandy Silt	Sub-soil	None
51	I	0-3	Black Sandy Silt	Modern Surface Layer	None
51	II	3-17	Dark Brown Sandy Silt	Naturally Developed Soil	None
51	III	17-18	Yellow Brown Sandy Silt	Sub-soil	None
52	I	0-2	Black Sandy Silt	Modern Surface Layer	None
52	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
52	III	13-16	Yellow Brown Sandy Silt	Sub-soil	None
53	I	0-3	Black Sandy Silt	Modern Surface Layer	None
53	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
53	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
54	I	0-2	Black Sandy Silt	Modern Surface Layer	None
54	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
54	III	14-17	Yellow Brown Sandy Silt	Sub-soil	None
55	I	0-2	Black Sandy Silt	Modern Surface Layer	None
55	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	2 fragments slag (4.5 grams)
55	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
56	I	0-2	Black Sandy Silt	Modern Surface Layer	None
56	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
56	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
57	I	0-2	Black Sandy Silt	Modern Surface Layer	None
57	II	2-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
57	III	5-16	Yellow Brown Sandy Silt	Sub-soil	None
58	I	0-3	Black Sandy Silt	Modern Surface Layer	None
58	II	3-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
58	III	4-16	Yellow Brown Sandy Silt	Sub-soil	None
59	I	0-3	Black Sandy Silt	Modern Surface Layer	None
59	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
59	III	6-14	Yellow Brown Sandy Silt	Sub-soil	None
60	I	0-3	Black Sandy Silt	Modern Surface Layer	None
60	II	3-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
60	III	14-17	Yellow Brown Sandy Silt	Sub-soil	None
61	I	0-2	Black Sandy Silt	Modern Surface Layer	None
61	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
61	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None
62	I	0-3	Black Sandy Silt	Modern Surface Layer	None
62	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
62	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
63	I	0-2	Black Sandy Silt	Modern Surface Layer	None
63	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
63	III	14-16	Yellow Brown Sandy Silt	Sub-soil	None
64	I	0-2	Black Sandy Silt	Modern Surface Layer	None
64	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
64	III	13-17	Yellow Brown Sandy Silt	Sub-soil	None
65	I	0-2	Black Sandy Silt	Modern Surface Layer	None
65	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
65	III	13-17	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
66	I	0-2	Black Sandy Silt	Modern Surface Layer	None
66	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
66	III	12-16	Yellow Brown Sandy Silt	Sub-soil	None
67	I	0-2	Black Sandy Silt	Modern Surface Layer	1 fragment mammal bone; wt.: 3.4 grams
67	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
67	III	4-16	Yellow Brown Sandy Silt	Sub-soil	None
68	I	0-3	Black Sandy Silt	Modern Surface Layer	None
68	II	3-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
68	III	4-17	Yellow Brown Sandy Silt	Sub-soil	None
69	I	0-3	Black Sandy Silt	Modern Surface Layer	None
69	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
69	III	6-17	Yellow Brown Sandy Silt	Sub-soil	None
70	I	0-3	Black Sandy Silt	Modern Surface Layer	None
70	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
70	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None
71	I	0-2	Black Sandy Silt	Modern Surface Layer	None
71	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
71	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None
72	I	0-3	Black Sandy Silt	Modern Surface Layer	None
72	II	3-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
72	III	13-16	Yellow Brown Sandy Silt	Sub-soil	None
73	I	0-2	Black Sandy Silt	Modern Surface Layer	None
73	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
73	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
74	I	0-2	Black Sandy Silt	Modern Surface Layer	None
74	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
74	III	14-17	Yellow Brown Sandy Silt	Sub-soil	None
75	I	0-2	Black Sandy Silt	Modern Surface Layer	None
75	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
75	III	13-18	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
76	I	0-2	Black Sandy Silt	Modern Surface Layer	1 fragment clear glass
76	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
76	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None
77	I	0-2	Black Sandy Silt	Modern Surface Layer	None
77	II	2-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
77	III	6-16	Yellow Brown Sandy Silt	Sub-soil	None
78	I	0-3	Black Sandy Silt	Modern Surface Layer	None
78	II	3-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
78	III	5-16	Yellow Brown Sandy Silt	Sub-soil	None
79	I	0-3	Black Sandy Silt	Modern Surface Layer	None
79	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
79	III	6-14	Yellow Brown Sandy Silt	Sub-soil	None
80	I	0-2	Black Sandy Silt	Modern Surface Layer	None
80	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
80	III	14-17	Yellow Brown Sandy Silt	Sub-soil	None
81	I	0-2	Black Sandy Silt	Modern Surface Layer	None
81	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
81	III	12-15	Yellow Brown Sandy Silt	Sub-soil	None
82	I	0-3	Black Sandy Silt	Modern Surface Layer	None
82	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
82	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None
83	I	0-2	Black Sandy Silt	Modern Surface Layer	None
83	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
83	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
84	I	0-2	Black Sandy Silt	Modern Surface Layer	None
84	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
84	III	13-16	Yellow Brown Sandy Silt	Sub-soil	None
85	I	0-2	Black Sandy Silt	Modern Surface Layer	None
85	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	1 wire nail
85	III	13-16	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
86	I	0-2	Black Sandy Silt	Modern Surface Layer	None
86	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
86	III	15-18	Yellow Brown Sandy Silt	Sub-soil	None
87	I	0-2	Black Sandy Silt	Modern Surface Layer	None
87	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
87	III	11-14	Yellow Brown Sandy Silt	Sub-soil	None
88	I	0-3	Black Sandy Silt	Modern Surface Layer	None
88	II	3-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
88	III	4-16	Yellow Brown Sandy Silt	Sub-soil	None
89	I	0-3	Black Sandy Silt	Modern Surface Layer	None
89	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
89	III	6-15	Yellow Brown Sandy Silt	Sub-soil	None
90	I	0-3	Black Sandy Silt	Modern Surface Layer	None
90	II	3-14	Dark Brown Sandy Silt	Naturally Developed Soil	2 fragments coal (wt.: 5.6 grams)
90	III	14-17	Yellow Brown Sandy Silt	Sub-soil	None
91	I	0-2	Black Sandy Silt	Modern Surface Layer	None
91	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
91	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
92	I	0-3	Black Sandy Silt	Modern Surface Layer	None
92	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
92	III	15-18	Yellow Brown Sandy Silt	Sub-soil	None
93	I	0-2	Black Sandy Silt	Modern Surface Layer	None
93	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
93	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
94	I	0-2	Black Sandy Silt	Modern Surface Layer	None
94	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
94	III	13-14	Yellow Brown Sandy Silt	Sub-soil	None
95	I	0-2	Black Sandy Silt	Modern Surface Layer	None
95	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
95	III	13-16	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
96	I	0-2	Black Sandy Silt	Modern Surface Layer	None
96	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
96	III	12-16	Yellow Brown Sandy Silt	Sub-soil	None
97	I	0-2	Black Sandy Silt	Modern Surface Layer	None
97	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
97	III	4-14	Yellow Brown Sandy Silt	Sub-soil	None
98	I	0-3	Black Sandy Silt	Modern Surface Layer	None
98	II	3-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
98	III	4-14	Yellow Brown Sandy Silt	Sub-soil	None
99	I	0-3	Black Sandy Silt	Modern Surface Layer	None
99	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
99	III	6-17	Yellow Brown Sandy Silt	Sub-soil	None
100	I	0-2	Black Sandy Silt	Modern Surface Layer	None
100	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
100	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
101	I	0-2	Black Sandy Silt	Modern Surface Layer	None
101	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	1 fragment cut wood with paint (wt.: 15.4 grams)
101	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
102	I	0-3	Black Sandy Silt	Modern Surface Layer	None
102	II	3-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
102	III	13-17	Yellow Brown Sandy Silt	Sub-soil	None
103	I	0-2	Black Sandy Silt	Modern Surface Layer	None
103	II	2-16	Dark Brown Sandy Silt	Naturally Developed Soil	None
103	III	16-17	Yellow Brown Sandy Silt	Sub-soil	None
104	I	0-2	Black Sandy Silt	Modern Surface Layer	None
104	II	2-16	Dark Brown Sandy Silt	Naturally Developed Soil	None
104	III	16-18	Yellow Brown Sandy Silt	Sub-soil	None
105	I	0-2	Black Sandy Silt	Modern Surface Layer	None
105	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
105	III	14-18	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
106	I	0-2	Black Sandy Silt	Modern Surface Layer	None
106	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
106	III	13-17	Yellow Brown Sandy Silt	Sub-soil	None
107	I	0-3	Black Sandy Silt	Modern Surface Layer	None
107	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
107	III	6-16	Yellow Brown Sandy Silt	Sub-soil	None
108	I	0-4	Black Sandy Silt	Modern Surface Layer	None
108	II	4-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
108	III	5-16	Yellow Brown Sandy Silt	Sub-soil	None
109	I	0-3	Black Sandy Silt	Modern Surface Layer	None
109	II	3-7	Dark Brown Sandy Silt	Naturally Developed Soil	None
109	III	6-13	Yellow Brown Sandy Silt	Sub-soil	None
110	I	0-3	Black Sandy Silt	Modern Surface Layer	None
110	II	3-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
110	III	14-17	Yellow Brown Sandy Silt	Sub-soil	None
111	I	0-2	Black Sandy Silt	Modern Surface Layer	None
111	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
111	III	13-19	Yellow Brown Sandy Silt	Sub-soil	None
112	I	0-3	Black Sandy Silt	Modern Surface Layer	2 fragments green tinted glass
112	II	3-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
112	III	14-16	Yellow Brown Sandy Silt	Sub-soil	None
113	I	0-2	Black Sandy Silt	Modern Surface Layer	None
113	II	2-16	Dark Brown Sandy Silt	Naturally Developed Soil	None
113	III	16-18	Yellow Brown Sandy Silt	Sub-soil	None
114	I	0-2	Black Sandy Silt	Modern Surface Layer	None
114	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
114	III	14-16	Yellow Brown Sandy Silt	Sub-soil	None
115	I	0-2	Black Sandy Silt	Modern Surface Layer	None
115	II	2-16	Dark Brown Sandy Silt	Naturally Developed Soil	None
115	III	16-17	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
116	I	0-2	Black Sandy Silt	Modern Surface Layer	None
116	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
116	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None
117	I	0-2	Black Sandy Silt	Modern Surface Layer	None
117	II	2-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
117	III	4-16	Yellow Brown Sandy Silt	Sub-soil	None
118	I	0-3	Black Sandy Silt	Modern Surface Layer	None
118	II	3-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
118	III	5-17	Yellow Brown Sandy Silt	Sub-soil	None
119	I	0-3	Black Sandy Silt	Modern Surface Layer	None
119	II	3-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
119	III	5-13	Yellow Brown Sandy Silt	Sub-soil	None
120	I	0-3	Black Sandy Silt	Modern Surface Layer	None
120	II	3-17	Dark Brown Sandy Silt	Naturally Developed Soil	None
120	III	17-18	Yellow Brown Sandy Silt	Sub-soil	None
121	I	0-2	Black Sandy Silt	Modern Surface Layer	None
121	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
121	III	12-15	Yellow Brown Sandy Silt	Sub-soil	None
122	I	0-3	Black Sandy Silt	Modern Surface Layer	None
122	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
122	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None
123	I	0-2	Black Sandy Silt	Modern Surface Layer	None
123	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
123	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
124	I	0-2	Black Sandy Silt	Modern Surface Layer	2 wire nails
124	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
124	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None
125	I	0-2	Black Sandy Silt	Modern Surface Layer	None
125	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
125	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
126	I	0-2	Black Sandy Silt	Modern Surface Layer	None
126	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
126	III	14-16	Yellow Brown Sandy Silt	Sub-soil	None
127	I	0-2	Black Sandy Silt	Modern Surface Layer	None
127	II	2-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
127	III	5-14	Yellow Brown Sandy Silt	Sub-soil	None
128	I	0-3	Black Sandy Silt	Modern Surface Layer	None
128	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
128	III	6-14	Yellow Brown Sandy Silt	Sub-soil	None
129	I	0-3	Black Sandy Silt	Modern Surface Layer	None
129	II	3-4	Dark Brown Sandy Silt	Naturally Developed Soil	None
129	III	4-14	Yellow Brown Sandy Silt	Sub-soil	None
130	I	0-2	Black Sandy Silt	Modern Surface Layer	None
130	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
130	III	14-15	Yellow Brown Sandy Silt	Sub-soil	None
131	I	0-2	Black Sandy Silt	Modern Surface Layer	None
131	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
131	III	13-15	Yellow Brown Sandy Silt	Sub-soil	None
132	I	0-3	Black Sandy Silt	Modern Surface Layer	None
132	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
132	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
133	I	0-2	Black Sandy Silt	Modern Surface Layer	None
133	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
133	III	14-16	Yellow Brown Sandy Silt	Sub-soil	None
134	I	0-2	Black Sandy Silt	Modern Surface Layer	None
134	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
134	III	13-17	Yellow Brown Sandy Silt	Sub-soil	None
135	I	0-2	Black Sandy Silt	Modern Surface Layer	None
135	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
135	III	13-16	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
136	I	0-2	Black Sandy Silt	Modern Surface Layer	None
136	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
136	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
137	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
137	II	2-5	Brown Sandy Silt	Naturally Developed Soil	None
137	III	5-15	Light Brown Sandy Silt	Sub-soil	None
138	I	0-3	Gray Sandy Silt	Modern Surface Layer	None
138	II	3-6	Brown Sandy Silt	Naturally Developed Soil	1 fragments misc. metal (wt.: 4.6 grams)
138	III	6-16	Light Brown Sandy Silt	Sub-soil	None
139	I	0-3	Gray Brown Sandy Silt	Modern Surface Layer	None
139	II	3-6	Brown Sandy Silt	Naturally Developed Soil	None
139	III	6-14	Light Brown Sandy Silt	Sub-soil	None
140	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
140	II	2-14	Brown Sandy Silt	Naturally Developed Soil	None
140	III	14-17	Light Brown Sandy Silt	Sub-soil	None
141	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
141	II	2-13	Brown Sandy Silt	Naturally Developed Soil	None
141	III	13-14	Light Brown Sandy Silt	Sub-soil	None
142	I	0-3	Gray Brown Sandy Silt	Modern Surface Layer	None
142	II	3-15	Brown Sandy Silt	Naturally Developed Soil	None
142	III	15-16	Light Brown Sandy Silt	Sub-soil	None
143	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
143	II	2-15	Brown Sandy Silt	Naturally Developed Soil	None
143	III	15-16	Light Brown Sandy Silt	Sub-soil	None
144	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
144	II	2-13	Brown Sandy Silt	Naturally Developed Soil	None
144	III	13-17	Brown Sandy Silt	Sub-soil	None
145	I	0-2	Black Sandy Silt	Modern Surface Layer	None
145	II	2-17	Dark Brown Sandy Silt	Naturally Developed Soil	None
145	III	17-18	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
146	I	0-2	Black Sandy Silt	Modern Surface Layer	None
146	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
146	III	15-18	Yellow Brown Sandy Silt	Sub-soil	None
147	I	0-2	Black Sandy Silt	Modern Surface Layer	None
147	II	2-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
147	III	5-18	Yellow Brown Sandy Silt	Sub-soil	None
148	I	0-3	Black Sandy Silt	Modern Surface Layer	None
148	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
148	III	6-18	Yellow Brown Sandy Silt	Sub-soil	None
149	I	0-3	Black Sandy Silt	Modern Surface Layer	None
149	II	3-6	Dark Brown Sandy Silt	Naturally Developed Soil	None
149	III	6-17	Yellow Brown Sandy Silt	Sub-soil	None
150	I	0-2	Sod	Modern Surface Layer	None
150	II	2-8	Brown Sandy Silt	Naturally Developed Soil	None
150	III	8-13	Light Brown Sandy Silt	Sub-soil	None
151	I	0-2	Sod	Modern Surface Layer	None
151	II	2-9	Brown Sandy Silt	Naturally Developed Soil	None
151	III	9-14	Light Brown Sandy Silt	Sub-soil	None
152	I	0-3	Black Sandy Silt	Modern Surface Layer	None
152	II	3-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
152	III	15-16	Yellow Brown Sandy Silt	Sub-soil	None
153	I	0-3	Black Sandy Silt	Modern Surface Layer	None
153	II	3-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
153	III	14-16	Yellow Brown Sandy Silt	Sub-soil	None
154	I	0-2	Black Sandy Silt	Modern Surface Layer	None
154	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
154	III	13-17	Yellow Brown Sandy Silt	Sub-soil	None
155	I	0-2	Black Sandy Silt	Modern Surface Layer	None
155	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
155	III	14-17	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
156	I	0-2	Sod	Modern Surface Layer	None
156	II	2-7	Brown Sandy Silt	Naturally Developed Soil	1 small mammal bone (wt.: 4.3 grams)
156	III	7-10	Light Brown Sandy Silt	Sub-soil	None
157	I	0-2	Black Sandy Silt	Modern Surface Layer	None
157	II	2-5	Dark Brown Sandy Silt	Naturally Developed Soil	None
157	III	5-16	Yellow Brown Sandy Silt	Sub-soil	None
158	I	0-3	Black Sandy Silt	Modern Surface Layer	None
158	II	3-7	Dark Brown Sandy Silt	Naturally Developed Soil	None
158	III	7-16	Yellow Brown Sandy Silt	Sub-soil	None
159	I	0-3	Black Sandy Silt	Modern Surface Layer	None
159	II	3-8	Dark Brown Sandy Silt	Naturally Developed Soil	None
159	III	8-14	Yellow Brown Sandy Silt	Sub-soil	None
160	I	0-2	Black Sandy Silt	Modern Surface Layer	None
160	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
160	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None
161	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
161	II	2-7	Brown Sandy Silt	Naturally Developed Soil	None
161	III	7-10	Light Brown Sandy Silt	Sub-soil	None
162	I	0-3	Gray Brown Sandy Silt	Modern Surface Layer	None
162	II	3-8	Brown Sandy Silt	Naturally Developed Soil	None
162	III	8-10	Light Brown Sandy Silt	Sub-soil	None
163	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
163	II	2-7	Brown Sandy Silt	Naturally Developed Soil	None
163	III	7-10	Light Brown Sandy Silt	Sub-soil	None
164	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
164	II	2-8	Brown Sandy Silt	Naturally Developed Soil	None
164	III	8-10	Light Brown Sandy Silt	Sub-soil	None
165	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
165	II	2-7	Brown Sandy Silt	Naturally Developed Soil	None
165	III	7-11	Light Brown Sandy Silt	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
166	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
166	II	2-9	Brown Sandy Silt	Naturally Developed Soil	None
166	III	9-12	Light Brown Sandy Silt	Sub-soil	None
167	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
167	II	2-7	Brown Sandy Silt	Naturally Developed Soil	None
167	III	7-10	Light Brown Sandy Silt	Sub-soil	None
168	I	0-3	Gray Brown Sandy Silt	Modern Surface Layer	None
168	II	3-8	Brown Sandy Silt	Naturally Developed Soil	None
168	III	8-11	Light Brown Sandy Silt	Sub-soil	None
169	I	0-3	Gray Brown Sandy Silt	Modern Surface Layer	None
169	II	3-8	Brown Sandy Silt	Naturally Developed Soil	None
169	III	8-10	Light Brown Sandy Silt	Sub-soil	None
170	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
170	II	2-7	Brown Sandy Silt	Naturally Developed Soil	None
170	III	7-10	Light Brown Sandy Silt	Sub-soil	None
171	I	0-2	Gray Brown Sandy Silt	Modern Surface Layer	None
171	II	2-7	Brown Sandy Silt	Naturally Developed Soil	None
171	III	7-10	Light Brown Sandy Silt	Sub-soil	None
172	I	0-3	Gray Brown Sandy Silt	Modern Surface Layer	None
172	II	3-7	Brown Sandy Silt	Naturally Developed Soil	None
172	III	7-9	Light Brown Sandy Silt	Sub-soil	None
173	I	0-3	Gray Brown Sandy Silt	Modern Surface Layer	None
173	II	3-7	Brown Sandy Silt	Naturally Developed Soil	None
173	III	7-10	Light Brown Sandy Silt	Sub-soil	None
174	I	0-2	Black Sandy Silt	Modern Surface Layer	None
174	II	2-16	Dark Brown Sandy Silt	Naturally Developed Soil	None
174	III	16-17	Yellow Brown Sandy Silt	Sub-soil	None
175	I	0-2	Black Sandy Silt	Modern Surface Layer	None
175	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
175	III	15-17	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
176	I	0-2	Black Sandy Silt	Modern Surface Layer	None
176	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
176	III	15-16	Light Brown Sandy Silt	Sub-soil	None
177	I	0-2	Black Sandy Silt	Modern Surface Layer	None
177	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
177	III	12-14	Light Brown Sandy Silt	Sub-soil	None
178	I	0-3	Black Sandy Silt	Modern Surface Layer	1 fragment clear plastic
178	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
178	III	12-14	Light Brown Sandy Silt	Sub-soil	None
179	I	0-3	Black Sandy Silt	Modern Surface Layer	None
179	II	3-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
179	III	11-12	Light Brown Sandy Silt	Sub-soil	None
180	I	0-2	Black Brown Sandy Silt	Modern Surface Layer	None
180	II	2-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
180	III	10-11	Light Brown Sandy Silt	Sub-soil	None
181	I	0-2	Black Sandy Silt	Modern Surface Layer	None
181	II	2-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
181	III	10-11	Light Brown Sandy Silt	Sub-soil	None
182	I	0-2	Black Sandy Silt	Modern Surface Layer	None
182	II	2-9	Dark Brown Sandy Silt	Naturally Developed Soil	None
182	III	9-11	Light Brown Sandy Silt	Sub-soil	None
183	I	0-3	Black Sandy Silt	Modern Surface Layer	None
183	II	3-9	Dark Brown Sandy Silt	Naturally Developed Soil	None
183	III	9-11	Light Brown Sandy Silt	Sub-soil	None
184	I	0-2	Black Sandy Silt	Modern Surface Layer	None
184	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
184	III	12-13	Yellow Brown Sandy Silt	Sub-soil	None
185	I	0-2	Black Sandy Silt	Modern Surface Layer	None
185	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
185	III	12-15	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
186	I	0-2	Black Sandy Silt	Modern Surface Layer	None
186	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
186	III	12-16	Light Brown Sandy Silt	Sub-soil	None
187	I	0-2	Black Sandy Silt	Modern Surface Layer	None
187	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
187	III	13-14	Light Brown Sandy Silt	Sub-soil	None
188	I	0-3	Black Sandy Silt	Modern Surface Layer	None
188	II	3-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
188	III	13-14	Light Brown Sandy Silt	Sub-soil	None
189	I	0-3	Black Sandy Silt	Modern Surface Layer	None
189	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
189	III	12-13	Light Brown Sandy Silt	Sub-soil	None
190	I	0-3	Black Brown Sandy Silt	Modern Surface Layer	None
190	II	3-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
190	III	10-11	Light Brown Sandy Silt	Sub-soil	None
191	I	0-3	Black Sandy Silt	Modern Surface Layer	None
191	II	3-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
191	III	10-12	Light Brown Sandy Silt	Sub-soil	None
192	I	0-2	Black Sandy Silt	Modern Surface Layer	None
192	II	2-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
192	III	10-11	Light Brown Sandy Silt	Sub-soil	None
193	I	0-3	Black Sandy Silt	Modern Surface Layer	None
193	II	3-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
193	III	10-11	Light Brown Sandy Silt	Sub-soil	None
194	I	0-2	Black Sandy Silt	Modern Surface Layer	None
194	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
194	III	12-14	Yellow Brown Sandy Silt	Sub-soil	None
195	I	0-3	Black Sandy Silt	Modern Surface Layer	None
195	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	1 fragment clear glass
195	III	12-14	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
196	I	0-2	Black Sandy Silt	Modern Surface Layer	None
196	II	2-15	Dark Brown Sandy Silt	Naturally Developed Soil	None
196	III	15-16	Light Brown Sandy Silt	Sub-soil	None
197	I	0-2	Black Sandy Silt	Modern Surface Layer	None
197	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
197	III	13-14	Light Brown Sandy Silt	Sub-soil	None
198	I	0-3	Black Sandy Silt	Modern Surface Layer	None
198	II	3-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
198	III	13-14	Light Brown Sandy Silt	Sub-soil	None
199	I	0-3	Black Sandy Silt	Modern Surface Layer	None
199	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
199	III	12-13	Light Brown Sandy Silt	Sub-soil	None
200	I	0-2	Black Brown Sandy Silt	Modern Surface Layer	None
200	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
200	III	11-12	Light Brown Sandy Silt	Sub-soil	None
201	I	0-2	Black Sandy Silt	Modern Surface Layer	None
201	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
201	III	11-12	Light Brown Sandy Silt	Sub-soil	None
202	I	0-2	Black Sandy Silt	Modern Surface Layer	None
202	II	2-9	Dark Brown Sandy Silt	Naturally Developed Soil	None
202	III	9-11	Light Brown Sandy Silt	Sub-soil	None
203	I	0-2	Black Sandy Silt	Modern Surface Layer	None
203	II	2-9	Dark Brown Sandy Silt	Naturally Developed Soil	None
203	III	9-10	Light Brown Sandy Silt	Sub-soil	None
204	I	0-2	Black Sandy Silt	Modern Surface Layer	None
204	II	2-9	Dark Brown Sandy Silt	Naturally Developed Soil	None
204	III	9-11	Yellow Brown Sandy Silt	Sub-soil	None
205	I	0-2	Black Sandy Silt	Modern Surface Layer	None
205	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
205	III	12-13	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
206	I	0-2	Black Sandy Silt	Modern Surface Layer	None
206	II	2-14	Dark Brown Sandy Silt	Naturally Developed Soil	None
206	III	14-16	Light Brown Sandy Silt	Sub-soil	None
207	I	0-2	Black Sandy Silt	Modern Surface Layer	None
207	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
207	III	11-14	Light Brown Sandy Silt	Sub-soil	None
208	I	0-3	Black Sandy Silt	Modern Surface Layer	None
208	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
208	III	12-14	Light Brown Sandy Silt	Sub-soil	None
209	I	0-3	Black Sandy Silt	Modern Surface Layer	None
209	II	3-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
209	III	11-12	Light Brown Sandy Silt	Sub-soil	None
210	I	0-2	Black Brown Sandy Silt	Modern Surface Layer	None
210	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
210	III	11-12	Light Brown Sandy Silt	Sub-soil	None
211	I	0-2	Black Sandy Silt	Modern Surface Layer	None
211	II	2-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
211	III	10-12	Light Brown Sandy Silt	Sub-soil	None
212	I	0-2	Black Sandy Silt	Modern Surface Layer	None
212	II	2-8	Dark Brown Sandy Silt	Naturally Developed Soil	None
212	III	8-12	Light Brown Sandy Silt	Sub-soil	None
213	I	0-3	Black Sandy Silt	Modern Surface Layer	None
213	II	3-8	Dark Brown Sandy Silt	Naturally Developed Soil	None
213	III	8-11	Light Brown Sandy Silt	Sub-soil	None
214	I	0-2	Black Sandy Silt	Modern Surface Layer	None
214	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
214	III	12-13	Yellow Brown Sandy Silt	Sub-soil	None
215	I	0-2	Black Sandy Silt	Modern Surface Layer	None
215	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
215	III	12-15	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
216	I	0-2	Black Sandy Silt	Modern Surface Layer	None
216	II	2-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
216	III	10-11	Light Brown Sandy Silt	Sub-soil	None
217	I	0-2	Black Sandy Silt	Modern Surface Layer	None
217	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
217	III	12-13	Light Brown Sandy Silt	Sub-soil	None
218	I	0-3	Black Sandy Silt	Modern Surface Layer	None
218	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
218	III	12-13	Light Brown Sandy Silt	Sub-soil	None
219	I	0-3	Black Sandy Silt	Modern Surface Layer	1 fragment amber tinted bottle glass
219	II	3-9	Dark Brown Sandy Silt	Naturally Developed Soil	None
219	III	9-12	Light Brown Sandy Silt	Sub-soil	None
220	I	0-2	Black Brown Sandy Silt	Modern Surface Layer	None
220	II	2-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
220	III	10-12	Light Brown Sandy Silt	Sub-soil	None
221	I	0-2	Black Sandy Silt	Modern Surface Layer	None
221	II	2-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
221	III	10-11	Light Brown Sandy Silt	Sub-soil	None
222	I	0-2	Black Sandy Silt	Modern Surface Layer	None
222	II	2-9	Dark Brown Sandy Silt	Naturally Developed Soil	None
222	III	9-10	Light Brown Sandy Silt	Sub-soil	None
223	I	0-3	Black Sandy Silt	Modern Surface Layer	None
223	II	3-9	Dark Brown Sandy Silt	Naturally Developed Soil	None
223	III	9-10	Light Brown Sandy Silt	Sub-soil	None
224	I	0-3	Black Sandy Silt	Modern Surface Layer	None
224	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
224	III	12-13	Yellow Brown Sandy Silt	Sub-soil	None
225	I	0-2	Black Sandy Silt	Modern Surface Layer	None
225	II	2-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
225	III	12-13	Yellow Brown Sandy Silt	Sub-soil	None

SHOVEL	STRA.	DEPTH	DESCRIPTION	CONTEXT	CULTURAL

TEST		(inches)			MATERIAL
226	I	0-3	Black Sandy Silt	Modern Surface Layer	None
226	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
226	III	12-13	Light Brown Sandy Silt	Sub-soil	None
227	I	0-2	Black Sandy Silt	Modern Surface Layer	None
227	II	2-13	Dark Brown Sandy Silt	Naturally Developed Soil	None
227	III	13-15	Light Brown Sandy Silt	Sub-soil	None
228	I	0-3	Black Sandy Silt	Modern Surface Layer	None
228	II	3-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
228	III	10-14	Light Brown Sandy Silt	Sub-soil	None

APPENDIX B

LOCATIONS OF PHOTOGRAPHIC VIEWS INCLUDED IN THIS REPORT AS FIGURES 4-12

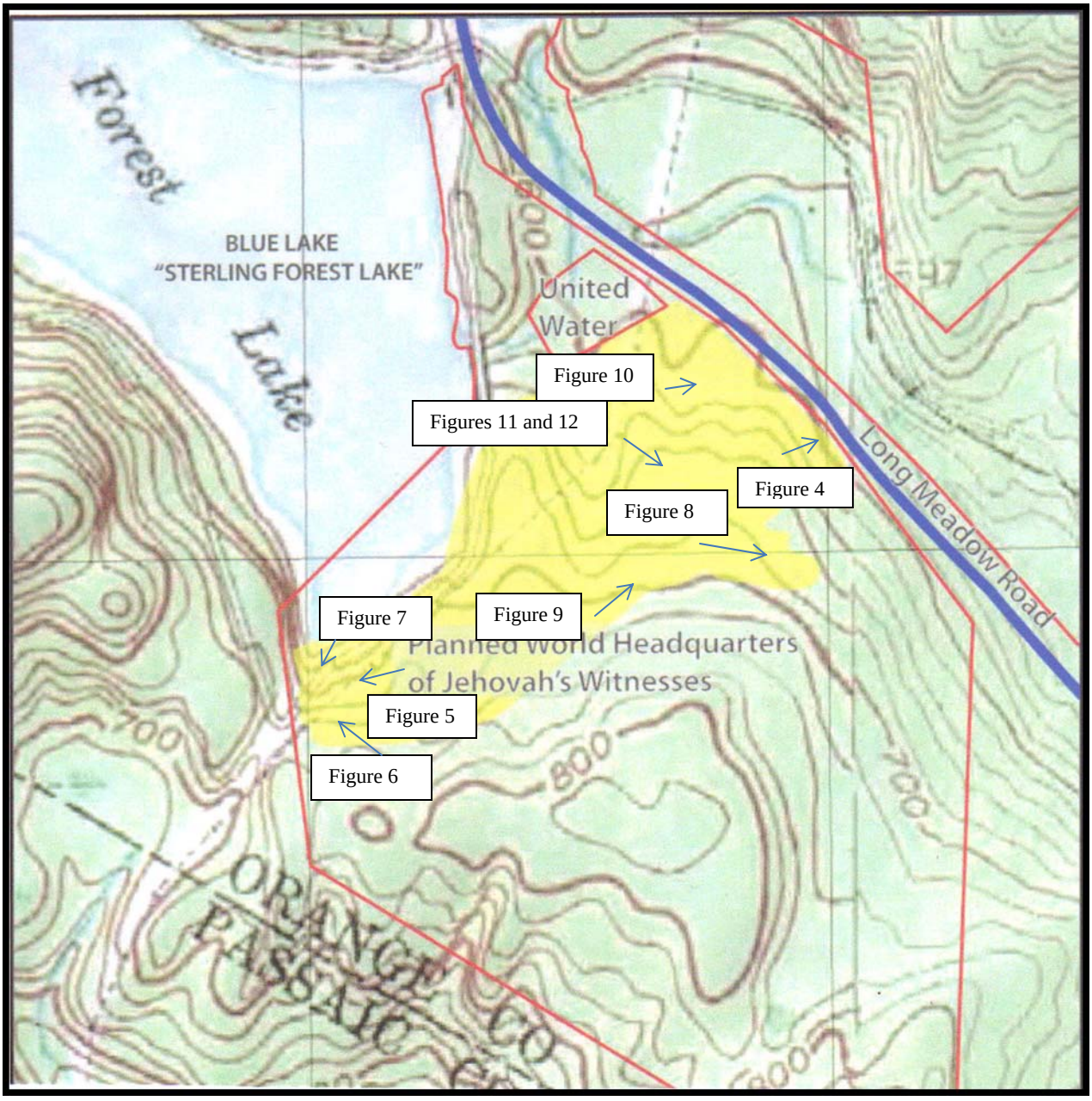

Forest
BLUE LAKE
"STERLING FOREST LAKE"
Lake
United
Water
Figure 10
Figures 11 and 12
Figure 4
Figure 8
Long Meadow Road
Figure 7
Figure 9
Planned World Headquarters
of Jehovah's Witnesses
Figure 5
Figure 6
700
800
700
ORANGE CO
PASSAIC CO

Figure 4

Typical Landscape East Portion of the Study Area

Figure 5

Grassy Landscape in West Portion of the Study Area

Figure 6

Typical Landscape in Southwest Portion of the Study Area

Figure 7

Typical Landscape in Northwest Portion of the Study Area

Figure 8

Typical Landscape in Southeast Portion of the Study Area

Figure 9

Typical Landscape in South Portion of the Study Area

Figure 10

Typical Landscape in the East Portion of the Study Area

Figure 11

Historic Period Road Section in Southeast Portion of the Study Area

Figure 12

Historic Period Road Section at its Fork in Southeast Portion of the Study Area

J-4

PHASE II ARCHAEOLOGICAL INVESTIGATION OF THE SUNKEN HISTORIC PERIOD ROAD SECTION WITHIN THE AREA OF POTENTIAL EFFECT FOR THE JEHOVAH'S WITNESSES WORLD HEADQUARTERS PROJECT AREA

TOWN OF WARWICK, ORANGE COUNTY, NEW YORK

Prepared for:

The Watchtower Bible and Tract Society of New York, Inc.
Brooklyn, New York City

Prepared by:

Eugene J. Boesch Ph.D, R.P.A.

September 16, 2011

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APPENDICES:

MANAGEMENT SUMMARY

OPRHP Project Review Number:

Involved State, Federal, and Local Agencies: Town of Warwick Planning Board

Phase of Survey: II

Location Information
Location: Town of Warwick
Minor Civil Division:
County: Orange

Survey Area: Jehovah's Witnesses World Headquarters Project
Acreage: Sunken Road Study Area: 0.25 acres (420 feet by 8-12 feet)

USGS 7.5 Minute Quadrangle Map: Greenwood Lake, New York-New Jersey

Archaeological Survey Overview
Number and Interval of Shovel Tests 21 shovel tests at 20 foot intervals

Results of Archaeological Survey:
Number and name of prehistoric sites identified: None
Number and name of historic sites identified: 1 – Jehovah's Witnesses Warwick Historic Period Road Remnant

Results of Architectural Survey
Number of buildings/structures/cemeteries within project area: 0
Number of buildings/structures/cemeteries adjacent project area: 0
Number of previously determined NR listed or eligible buildings/ structures/cemeteries/districts within project area: 0
Number of identified eligible buildings/structures/cemeteries/ districts adjacent project area: 0

Report Author: Eugene J. Boesch Ph.D., R.P.A.

Date of Report: September 16, 2011

1.0 INTRODUCTION

This report presents the results of an archaeological evaluation of a section of Historic period road identified during a Phase IB archaeological investigation (Boesch 2011) of the area of potential effect (APE) for the Jehovah's Witnesses World Headquarters project property, located along Long Meadow Road in the Town of Warwick, Orange County, New York (Figures 1 - 2). The legal address of the property is 1 Kings Drive, Tuxedo Park, New York, 10987. It is identified on Orange County tax maps as parcels 85-1-2-2.22, 85-1-2.3, 85-1-4.1, 85-1-5.1, 85-1-5.2, and 85-1-6.8.

The Historic period roadway section consists of a roughly north to south depression sunken below the surrounding landscape between approximately three to four feet (Figure 4-9). It is approximately 430 feet long and between 8 and 12 feet wide extending between the existing access road and a power transmission line right of way. It is oriented at approximately 138 degrees. The road section splits into two diverging sections near its southern end within the project area with the diverge segment being approximately 90 feet long. Remnant portions of field stone walls in dilapidated condition border the road at intervals. The road section is located within the project's 45 acre APE, crossing the proposed site of a vehicle maintenance facility and associated parking lot, just south of the driveway access road.

The Warwick property and its APE are located just south of Sterling Forest Lake, a man-made lake, about a mile north of the intersection of Long Meadow Road and Sterling Mine Road. The New York - New Jersey State border is located about a quarter mile south of the project property. The border between Warwick and Tuxedo is located about two and a quarter miles to the east of the Warwick property.

The sunken road is part of an approximately 253 acre property (referred to in this report as the Warwick property) owned by the Watchtower Bible and Tract Society of New York, Inc. The Society is the representative organization for the body of Christians known as Jehovah's Witnesses, a domestic-not-for profit corporation (Watchtower Bible and Tract Society of New York, Inc. 2007). The Warwick property will become the site of the world headquarters for the Society. The property, including the APE, was acquired by the Society on July 17, 2009 and is a privately owned parcel within Sterling Forest State Park. This study was requested by the Watchtower Bible and Tract Society of New York, Inc. following the recommendations of the Phase IB report (Boesch 2011). Completion of this study will fulfill the cultural resources evaluation requirements for the Jehovah's' Witnesses World Headquarters project.

This archaeological evaluation has been conducted and this document prepared in accordance with the United States Secretary of the Interior's standards for archaeological surveys and the guidelines and standards currently adopted by the New York State Office of Parks, Recreation, and Historic Preservation (New York Archaeological Council 1994, 2000; New York State Office of Parks, Recreation and Historic Preservation 2005). The objectives of the study are to determine whether any stratigraphic or structural components of the road exist or whether Historic period archaeological deposits or significant artifacts are associated with it.

1.1 Background

On August 25, 2011, a report was submitted to the Watchtower Bible and Tract Society of New York, Inc. presenting the results of a Phase IB archaeological investigation of the proposed Jehovah's Witnesses World Headquarters project's APE (Figure 1; United States Geological Survey 1969; Boesch 2011). The report stated that no potentially significant Pre-Contact period or Historic period archaeological resources of potential significance were identified by the Phase IB investigation.

Although a domestic type Historic period archaeological site was not identified by the Phase IB sub-surface testing, a recessed topographic feature was identified that has potential historic importance. The primitive, recessed feature is a remnant section of depressed roadway that likely served as a mine road, logging road, and/or farm road during all or part of the late eighteenth century through nineteenth century period. Its route splits into two tracks near the transmission line route before continuing south and southwest beyond the APE and extending up the hill to the project area's south. An examination of the section of the road beyond the APE

revealed stone walls bordering the road feature. The direction of the road suggests that it connected the Sterling Iron Works, located north of the APE, with iron mines and scattered houses formerly located south of the project area. Limited cultural material, as well as the artificially formed road section itself, was found by the shovel testing to be associated with the road. In addition, no structural element, such as a bedding layer for the road, was identified by the shovel testing. The stratigraphy revealed within the recessed road bottom by the testing was similar to that found in other portions of the APE (humus overlying naturally formed soils and glacially deposited sub-soil – see Chapter 2).

1.2 Methodology

The archaeological evaluation consisted of the excavation of 21 shovel tests at approximately 20 to 25 foot intervals along the bottom of the Historic period roadway section (Figure 2). The shovel tests typically covered approximately 2.5 square feet (0.75 square meters) of ground surface and were extended to depths below which naturally occurring, culturally sterile, sub-soil was encountered. Each shovel test was excavated stratigraphically. The purpose of the shovel tests was to determine whether stratigraphic or structural elements for the roadway, archaeological deposits, or significant artifacts are associated with the feature. Such finds could provide information on the age of the roadway and/or how it was constructed.

All soil removed from the shovel tests was screened through 1/4 inch mesh (hardware cloth) to detect the presence of artifacts. Separation of artifacts from different stratigraphic contexts was maintained to the extent possible with the procedures used.

Artifacts were returned to the laboratory where they were washed, tabulated, and placed in plastic bags labeled according to provenience. Appendix A to the report lists the stratigraphy encountered in each test and the artifacts recovered from each stratigraphic context. Appropriate metrics are provided for the artifacts. Shovel test locations are shown on Figure 3 with each shovel test identified by a number (1 – 21). The testing strategy involved the placement of shovel tests at approximately 20 to 25 foot intervals along the bottom of the roadway. Shovel testing was conducted adjacent to the sunken roadway as part of the Phase IB investigation with nothing of potential significance found (Boesch 2011).

The first stage of analysis consisted of laboratory processing of the artifacts recovered. Each artifact was cleaned, examined, and identified as to type, function, cultural affiliation, and period of manufacture where possible. The cleaned artifacts were placed in labeled plastic bags.

The second stage of analysis consisted of studying the stratigraphy encountered by the shovel tests in conjunction with the artifacts recovered in order to interpret the survey results.

The locations of the photographic views included in this report as Figures 4-9 also are indicated on Figure 3. Appendix B is a New York State Office of Parks, Recreation and Historic Preservation Archaeological Site form for the Historic period sunken road section. The form will also be submitted to that agency for its archaeological site files.

2.0 RESULTS OF FIELD TESTING

2.1 Introduction

Sub-surface testing of the Historic period sunken roadway section within the Jehovah's Witnesses World Headquarters project's APE was aimed at detecting any possibly significant deposits of structural elements associated with that feature. The tested roadway section likely dates to the late eighteenth century-mid-nineteenth century period. It was associated with the Sterling Iron Works located just north of the project area, connecting that complex with mines and residences formerly located south of the project area.

Twenty-one archaeological shovel tests were excavated along the base of the sunken road (Figure 2). The testing strategy involved the placement of shovel tests at approximately 20 foot intervals. The stratigraphy encountered in each sub-surface test excavated during the field testing and an inventory of the artifacts recovered are presented in Appendix A.

2.2 Field Results

One stratigraphic sequence was encountered by the 21 shovel tests excavated for this investigation (Figure 3). Most tests were located along the bottom of the road four tests (numbers 3, 11, 13, and 15) were located near the remnant stone walls. The nature of the stratigraphy was similar in each of the tests excavated and generally indicated the presence of naturally occurring soil that formed over naturally occurring glacially deposited till layers (i.e. the sub-soil) in a wooded upland setting. Although the elevation of the tests was three to four feet below the elevation of the surrounding tests excavated during the Phase IB investigation, the stratigraphy was similar between the two sets of shovel tests reflecting a process of natural soil development. No structural elements for the road or artifact deposits were identified by the testing. The limited quantity of artifacts recovered (i.e. cut nails (Type A) and coal recovered from Stratum II in shovel tests 2, 4, and 8) suggest non-domestic type of activity along the road, probably deriving from wagon traffic moving along the track.

The initial two to three inches seen in all 21 of the shovel tests consisted of relatively recently developed black sandy silt humus, (Stratum I). Below it was a seven to 11inch thick layer of dark brown sandy silt (Stratum II). Strata I and II represent naturally developed woodland soils that formed subsequent to the use of the roadway. With the absence of consistent travel by wagons and horses and the elimination of the erosion that would have ensued, such naturally occurring woodland-related soils could develop. The same soil layers were seen throughout the larger project area during the Phase IB investigation but at a higher elevation (i.e.: the elevation at the top of the roadway). Beneath Stratum II, at 10 to 13 inches below grade, was encountered the culturally sterile sub-soil which in these 21 shovel tests was a light brown sandy silt, occasionally associated with rocks and gravel (Stratum III), that was excavated to between 20 and 23 inches below grade. Cultural material recovered from these shovel tests consist of limited quantities of coal from Stratum II in shovel test 8 and Type A cut nails from Stratum II in shovel tests 2 and 4. Type A cut nails were most common during the period 1890-1820 although they may have been in frequent use through the mid-nineteenth century (Visser 1997).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Sub-surface testing within the Historic period sunken road section did not detect any significant deposits or significant individual artifacts. In addition, bedding or other structural elements for the primitive road were not identified. The only structural component associated with the road was a remnant field stone wall in dilapidated condition that borders it at intervals. It appears that the stone walls were partially dismantled at some point.

The stratigraphy encountered in all the tests reflected natural soil development (humus, naturally formed/ accumulated soil, and sub-soil) within a woodland setting that formed subsequent to the use of the roadway and the elimination of the resultant erosion. The presence of the Type A cut nails, and the absence of wire nails and other mid to late nineteenth century artifacts, suggest that the road was in use during the early to mid-nineteenth century, if not earlier (see Visser 1997).

The sunken roadway also was professionally surveyed and its location and orientation recorded. Reconnaissance of the area indicated that the sunken roadway within the APE is part of a larger road that extends well past the project area and likely connected the former Sterling Iron Works located north of the project area with former iron mines and residences located to the south.

A New York State Office of Parks, Recreation and Historic Preservation Historic period archaeological site form was completed for the sunken road and will be submitted to that agency for its site files. The form also is included in this report as Appendix B.

3.2 Recommendations

No additional archaeological investigations are recommended for the proposed sunken road. In addition, the previously completed Phase IB investigation did not identify other potentially significant archaeological sites within the APE. Accordingly, based upon the results of the two investigations, no additional archaeological studies are warranted for the Jehovah's Witnesses World Headquarters project's APE.

4.0 REFERENCES CITED

Boesch, Eugene
2011 Phase IB Archaeological Investigation of the Area of Potential Effect for the Jehovah's Witness World Headquarters Project Area Town of Warwick, Orange County, New York. Prepared for the Watchtower Bible and Tract Society of New York, Inc. Brooklyn, New York.

New York State Archaeological Council
1994 Standards for Cultural Resource Investigations and the Curation of Archaeological Collections in New York State. The New York Archaeological Council. Standards adopted by the New York State Office of Parks, Recreation, and Historic Preservation.

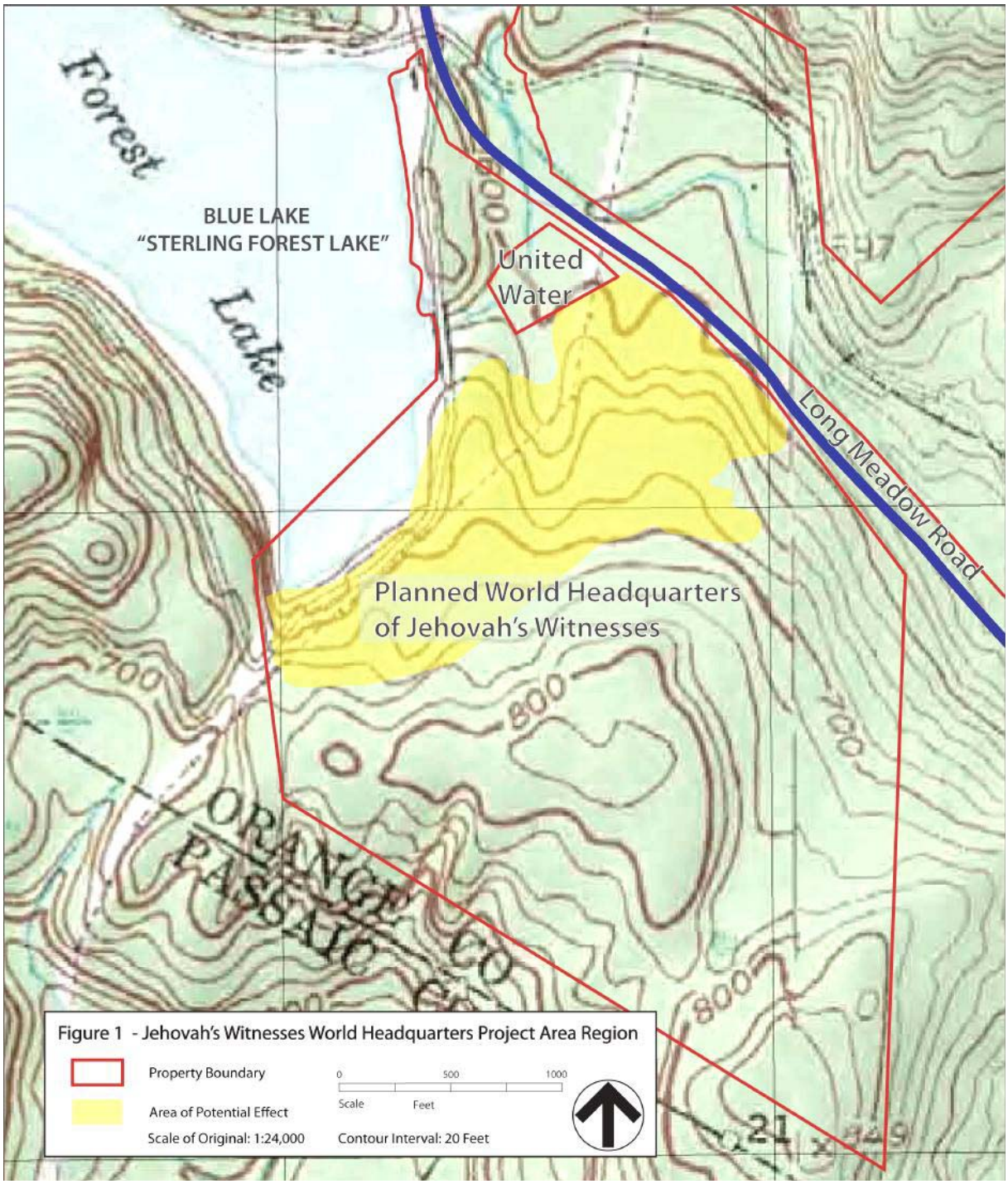
2000 Cultural Resource Standards Handbook. Guidance for Understanding and Applying the New York State Standards for Cultural Resource Investigations. The New York Archaeological Council. Standards adopted by the New York State Office of Parks, Recreation, and Historic Preservation.

New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP)
2005 New York State Historic Preservation Office (SHPO) Archaeological Report Format Requirements. Prepared by the New York State Office of Parks, Recreation and Historic Preservation, Waterford, New York.

United States Geological Survey
1969 Greenwood Lake, New York, 7.5 Minute Series (Topographic). United States Department of the Interior, Geological Survey, Washington, D.C. Photo revised 1981.

Visser, Thomas D.
1997 A Field Guide to New England Barns and Farm Buildings. University Press of New England, Boston, Ma.

FIGURES


Forest
BLUE LAKE
"STERLING FOREST LAKE"
Lake
United
Water
Long Meadow Road
Planned World Headquarters
of Jehovah's Witnesses
700
800
700
800
ORANGE
PASSAIC
CO
Figure 1 - Jehovah's Witnesses World Headquarters Project Area Region
Property Boundary
Area of Potential Effect
Scale of Original: 1:24,000
0
500
1000
Scale
Feet
Contour Interval: 20 Feet

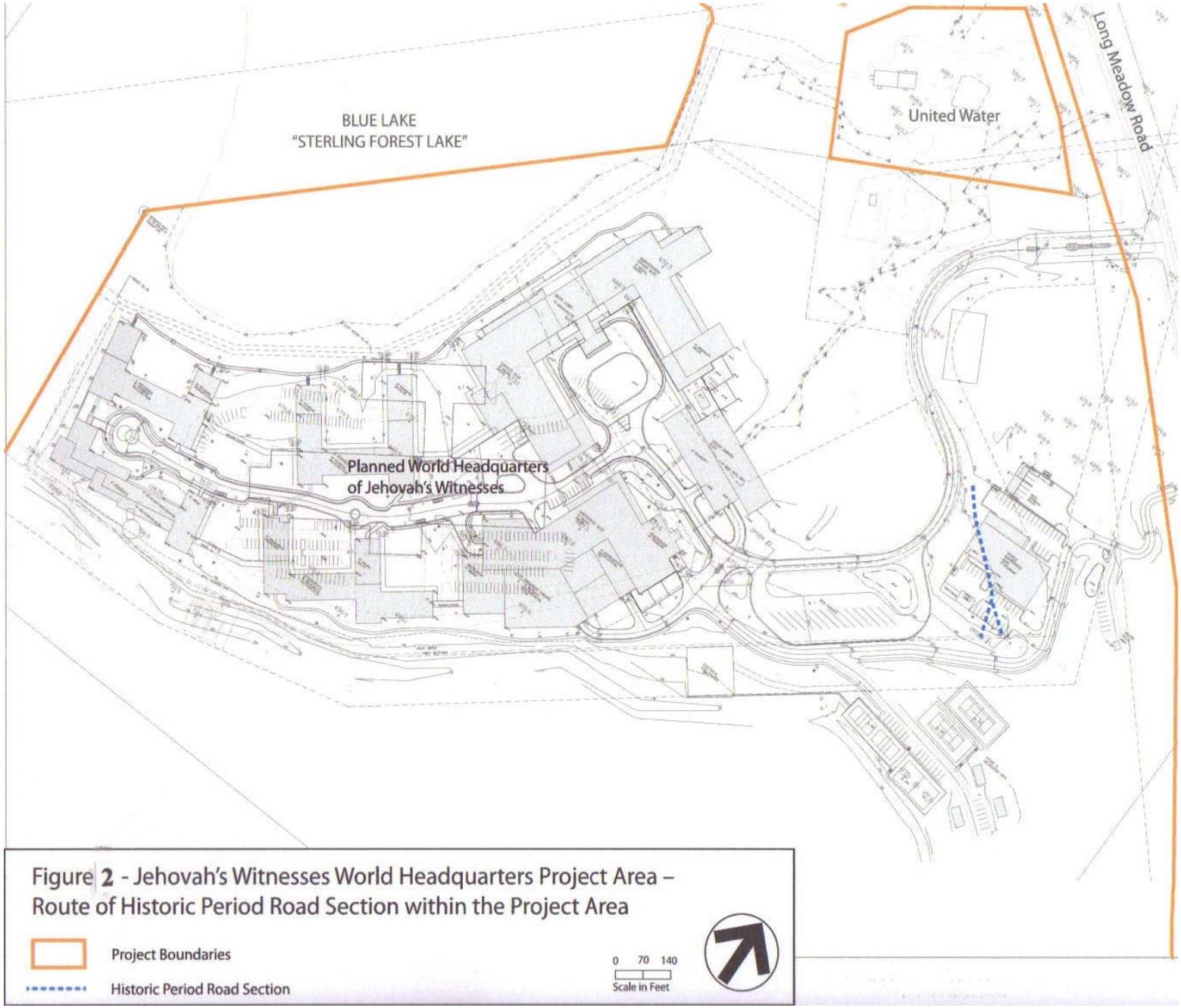
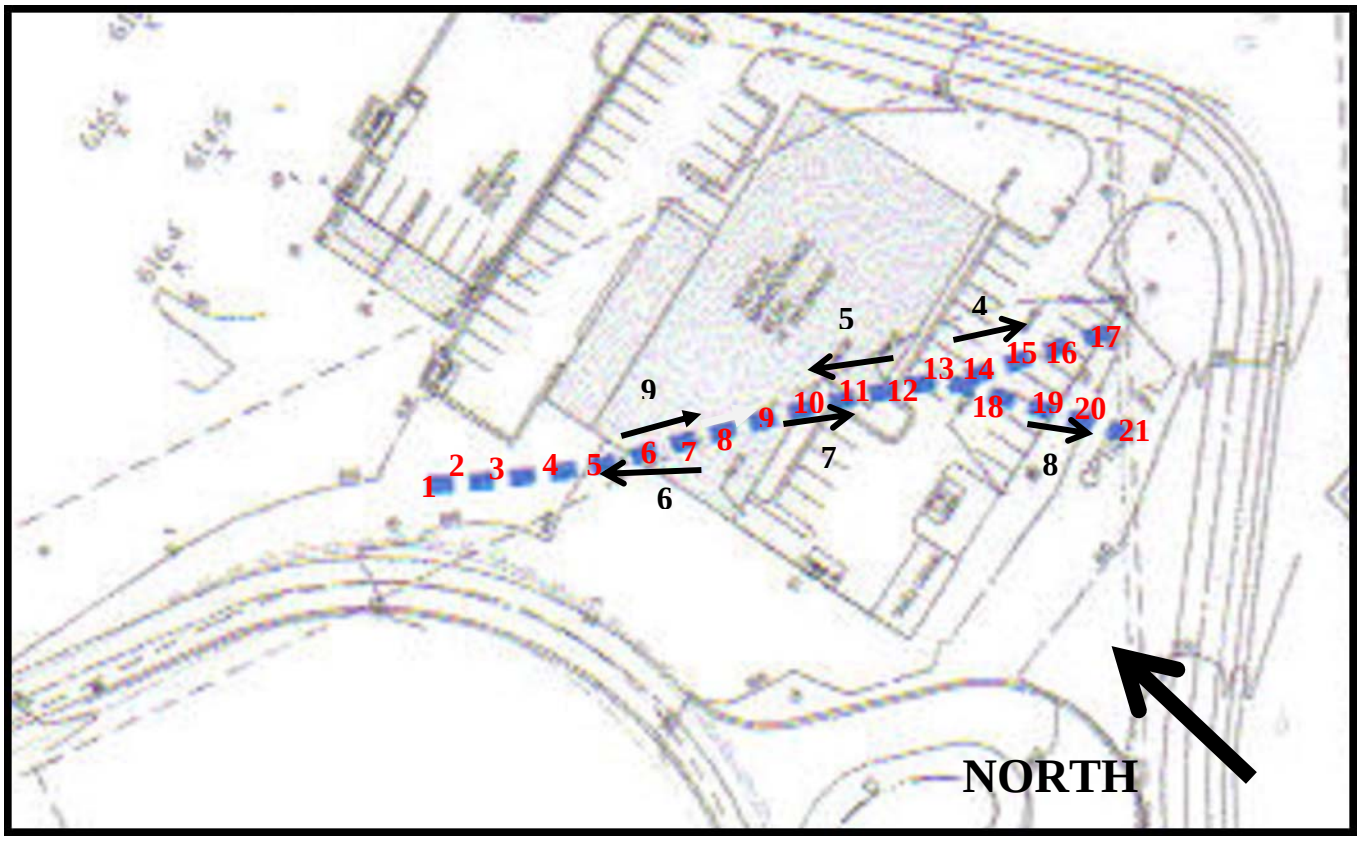


Figure 2 - Jehovah's Witnesses World Headquarters Project Area – Route of Historic Period Road Section within the Project Area



Key:

: Route of Historic Period Sunken Road Section

1-21: Archaeological Shovel Tests

4-8: Direction of Views included in this Report as Figures 4-9

Figure 3
Jehovah's Witnesses World Headquarters Project Area Showing the Location of the Historic Period Sunken Road and the Locations of the Archaeological Shovel Tests

Scale:
1 mm. = approximately 47 feet

Figure 4

Eastern Portion of Sunken Road Showing Remnant Stone Wall – View is to the East

Figure 5

Middle Portion of Sunken Road Showing Remnant Stone Wall – View is to the West

Figure 6

Western Portion of Sunken Road – View is to the West

Figure 7

Middle Portion of Sunken Road Showing Remnant Stone Wall – View is to the East

Figure 8

Eastern Portion of Diverged Section of Sunken Road - View is to the East

Figure 9

Stone Wall Remnant Bordering Sunken Road – View is to the East

APPENDIX A

SHOVEL TEST STRATIGRAPHY AND ARTIFACT INVENTORY

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
1	I	0-3	Black Sandy Silt	Modern Surface Layer	None
1	II	3-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
1	III	10-17	Light Brown Sandy Silt with Rocks	Sub-soil	None
2	I	0-2	Black Sandy Silt	Modern Surface Layer	None
2	II	2-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
2	III	12-18	Light Brown Sandy Silt with Rocks	Sub-soil	None
3	I	0-2	Black Sandy Silt	Modern Surface Layer	None
3	II	2-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
3	III	10-19	Light Brown Sandy Silt with Rocks	Sub-soil	None
4	I	0-3	Black Sandy Silt	Modern Surface Layer	None
4	II	3-10	Dark Brown Sandy Silt	Naturally Developed Soil	None
4	III	10-19	Light Brown Sandy Silt with Rocks	Sub-soil	None
5	I	0-3	Black Sandy Silt	Modern Surface Layer	None
5	II	3-11	Dark Brown Sandy Silt	Naturally Developed Soil	None
5	III	11-19	Light Brown Sandy Silt with Rocks	Sub-soil	None
6	I	0-3	Black Sandy Silt	Modern Surface Layer	None
6	II	3-12	Dark Brown Sandy Silt	Naturally Developed Soil	None
6	III	12-20	Light Brown Sandy Silt with Rocks	Sub-soil	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
8	I	0-2	Black Sandy Silt	Modern Surface	None
8	II	2-10	Dark Brown Sandy Silt	Underlying Leaching Zone	None
8	III	10-23	Light Brown Sandy Silt	Sub-soil	None
9	I	0-2	Black Sandy Silt	Modern Surface	None
9	II	2-11	Dark Brown Sandy Silt	Underlying Leaching Zone	None
9	III	11-23	Light Brown Sandy Silt	Sub-soil	None
10	I	0-2	Black Sandy Silt	Modern Surface	None
10	II	2-12	Dark Brown Sandy Silt	Underlying Leaching Zone	None
10	III	12-23	Light Brown Sandy Silt	Sub-soil	None
11	I	0-2	Black Sandy Silt	Modern Surface	None
11	II	2-10	Dark Brown Sandy Silt	Underlying Leaching Zone	None
11	III	10-22	Light Brown Sandy Silt	Sub-soil	None
12	I	0-3	Black Sandy Silt	Modern Surface	None
12	II	3-10	Dark Brown Sandy Silt	Underlying Leaching Zone	None
12	III	10-21	Light Brown Sandy Silt	Sub-soil	None
13	I	0-3	Black Sandy Silt	Modern Surface	None
13	II	3-11	Dark Brown Sandy Silt	Underlying Leaching Zone	None
13	III	11-21	Light Brown Sandy Silt	Sub-soil	None
14	I	0-2	Black Sandy Silt	Modern Surface	None
14	II	2-10	Dark Brown Sandy Silt	Underlying Leaching Zone	None
14	III	10-21	Light Brown Sandy Silt	Sub-soil	None
15	I	0-2	Black Sandy Silt	Modern Surface	None
15	II	2-12	Dark Brown Sandy Silt	Underlying Leaching Zone	None

SHOVEL TEST	STRA.	DEPTH (inches)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
15	III	12-20	Light Brown Sandy Silt	Sub-soil	None
16	I	0-3	Black Sandy Silt	Modern Surface	None
16	II	3-11	Dark Brown Sandy Silt	Underlying Leaching Zone	None
16	III	11-23	Light Brown Sandy Silt	Sub-soil	None
17	I	0-2	Black Sandy Silt	Modern Surface	None
17	II	2-11	Dark Brown Sandy Silt	Underlying Leaching Zone	None
17	III	11-23	Light Brown Sandy Silt	Sub-soil	None
18	I	0-2	Black Sandy Silt	Modern Surface	None
18	II	2-12	Dark Brown Sandy Silt	Underlying Leaching Zone	None
18	III	12-20	Light Brown Sandy Silt	Sub-soil	None
19	I	0-3	Black Sandy Silt	Modern Surface	None
19	II	3-11	Dark Brown Sandy Silt	Underlying Leaching Zone	None
19	III	11-23	Light Brown Sandy Silt	Sub-soil	None
20	I	0-2	Black Sandy Silt	Modern Surface	None
20	II	2-11	Dark Brown Sandy Silt	Underlying Leaching Zone	None
20	III	11-23	Light Brown Sandy Silt	Sub-soil	None
21	**I**	0-2	Black Sandy Silt	Modern Surface	None
21	**II**	2-13	Dark Brown Sandy Silt	Underlying Leaching Zone	None
21	**III**	13-23	Light Brown Sandy Silt	Sub-soil	None

APPENDIX B

NEW YORK STATE OFFICE OF PARKS, RECREATION AND HISTORIC PRESERVATION HISTORIC ARCHAEOLOGICAL SITE FORM

NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM
NYS OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION
(518) 237-8643

For Office Use Only--Site Identifier

Project Identifier Jehovah's Witnesses World Headquarters Project

Your Name Eugene J. Boesch Date September 16, 2011 Address 581 Long Pond Road, Mahopac, New York, 10541 Phone (845) 628-3826

Organization (if any)
1. SITE IDENTIFIER(S) Jehovah's Witnesses Warwick Historic Period Road Remnant

2. COUNTY Orange One of the following: CITY
TOWNSHIP Warwick
INCORPORATED VILLAGE Tuxedo
UNINCORPORATED VILLAGE OR HAMLET

3. PRESENT OWNER
Address Watchtower Bible and Tract Society of New York, Inc. , Brooklyn and Walkill, New York

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

Historic period sunken road remnant with dilapidated field stone walls bordering it at intervals – road possible associated with the Sterling Iron Works.

List construction materials (be as specific as possible): None

Grounds
___Under cultivation ___Sustaining erosion xx Woodland ___Upland
xx Never cultivated ___Previously cultivated ___Floodplain
Pastureland
Soil Drainage: excellent ___ good xx fair ___ poor
Distance to nearest water from structure (approx.) 500 feet
Elevation: 100 feet

5. Site Investigation (append additional sheets, if necessary):
Surface -- date (s) _____ Site map (submit with form*)
Collection
Subsurface -- date(s) August 27, 2011
Testing: shovel xx coring ___ other ___ unit size
no. units 21 (Submit plan of units with form*)

Excavation: unit size _____ no. of units
(Submit plan of units with form*)
* Submission should be 8 ½" by 11", if feasible

Investigator Eugene J. Boesch

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

Boesch, Eugene

2011 Phase II Archaeological Investigation of the Sunken Historic Period Road Section Within the Area of Potential Effect for the Jehovah's Witnesses World Headquarters Project Area, Town of Warwick, Orange County, New York. Prepared for The Watchtower Bible and Tract Society of New York, Inc. Brooklyn, New York City.

Present repository of materials Eugene J. Boesch

6. Site inventory: coal, Type A cut nails
   a. Date constructed or occupation period c. late eighteenth – nineteenth century
   b. Previous owners, if known
   c. Modifications, if known
   (append additional sheets, if necessary)

7. Site documentation (append additional sheets, if necessary):
   a. Historic map references
      1) Name_____ Date _____ Source
         Present location of original, if known
      2) Name_____ Date _____ Source
         Present location of original, if known
   b. Representation in existing photography
      1) Photo date _____ Where located
      2) Photo date _____ Where located

   c. Primary and secondary source of documentation (reference fully)

   d. Persons with memory of site
      1) Name_____ Address
      2) Name _____ Address

8. List of material remains other than those used in construction (be as specific as possible in identifying object and material): Coal, cut nails

   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 site must accompany this form and be identified by source and date. Keep this submission to 8½" x 11", if possible.

   USGS 71/2 Minute Series Quad. Name Greenwood Lake, New York
   For Office Use Only--UTM Coordinates

10. Photography (optional for environmental impact survey): Please submit a 5"x7" black and white print(s) showing the current state of the site. Provide a label for the print(s) on a separate sheet.

J-5

Andrew M. Cuomo
Governor

Rose Harvey
Commissioner

New York State Office of Parks, Recreation and Historic Preservation

Division for Historic Preservation
Peebles Island, PO Box 189, Waterford, New York 12188-0189
518-237-8643
www.nysparks.com

April 16, 2012

Robert A. Pollock
Design/Build Department
Watchtower Society
25 Columbia Heights
Brooklyn, NY 11201-2483

Re: DEC
World Headquarters Project
"Blue Lake"
T/O Warwick, Orange County
12PR01197

Dear Mr. Pollock:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Parks, Recreation and Historic Preservation Law, Section 14.09.

Based upon this review, it is the OPRHP's opinion that your project will have No Impact upon cultural resources in or eligible for inclusion in the State and National Register of Historic Places.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

Julian W. Adams
Senior Historic Sites Restoration Coordinator
NYSDHP