

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

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

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

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

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Global Business Park Subdivision & Site Plan for Central Dutchess Industrial Center		
Project Location (describe, and attach a general location map): Airport Drive, Town of Wappinger (see location map on plan)		
Brief Description of Proposed Action (include purpose or need): <u>Global Business Park Subdivision (A)</u> The owner/applicant is proposing to subdivide their vacant 115.0 acre parcel on Airport Drive into two (2) commercial building lots. The proposed lots will conform to the Town of Wappinger, Airport Industry zoning regulations. Access and frontage to each lot will be provided by extending Airport Drive approximately 850', including a new cul-del-sac. The proposed road extension will be dedicated to the Town of Wappinger. The proposed road will cross an existing NYSDEC classified/regulated stream and traverse over a portion of Federal Jurisdictional, NYSDEC, and Town of Wappinger regulated wetlands. Lot 1 will be created to facilitate the Site Plan for Central Dutchess Industrial Center and Lot 2 will remain vacant/undeveloped <u>Site plan for Central Dutchess Industrial Center</u> The owner/applicant is proposing to construct four (4) commercial buildings for contractor's office and storage/shop use on Lot 1 of the Global Business Park Subdivision. The proposed use is a permitted use in the AI zone. Lot 1 will be 19.06 acres and provide approximately 11.2 acres of buildable land outside the limits of the regulated wetland areas and 100' wetland buffers. The site plan will incorporate additional parking for the additional parking for the additional vehicles expected for contracting type businesses. The site will be supplied water from the existing Dutchess County water supply main and will provide an on-site subsurface sewage disposal system. A full SWPPP including stormwater management facilities are proposed on-site.		
Name of Applicant/Sponsor: Global Satellite, LLC	Telephone: 845-897-2664	E-Mail: peadmin@povallengineering.com
Address: 3 Nancy Court, Suite 4		
City/PO: Wappingers Falls	State: NY	Zip Code: 12590
Project Contact (if not same as sponsor; give name and title/role): Frank Buyakowski, Member - Global Satellite, LLC	Telephone: 845-897-2664	E-Mail: peadmin@povallengineering.com
Address: 3 Nancy Court, Suite 4		
City/PO: Wappingers Falls	State: NY	Zip Code: 12590
Property Owner (if not same as sponsor): same as sponsor	Telephone:	E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

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

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees		
b. City, Town or Village Planning Board or Commission <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Subdivision Approval Site Plan Approval Wetland Disturbance Permit	
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
d. Other local agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Highway work permit for road extension	
e. County agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DCDBCH approval of water supply and SDS on Lot 1 only	
f. Regional agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYSDEC Wetland Disturbance Permit Stream Disturbance Permit 401 Water Quality Certification	
h. Federal agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ACOE Wetland Disturbance Permit	
<p>i. Coastal Resources.</p> <p><i>i.</i> Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><i>ii.</i> Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><i>iii.</i> Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?
AI - Airport Industry Zoning District

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

c. Is a zoning change requested as part of the proposed action? Yes No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

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

b. What police or other public protection forces serve the project site?
New York State Police & Dutchess County Sheriff's Department

c. Which fire protection and emergency medical services serve the project site?
New Hackensack Fire Department

d. What parks serve the project site?
Airport Park, Schlathaus Park & Spook Hill Park

D. Project Details

D.1. Proposed and Potential Development

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

b. a. Total acreage of the site of the proposed action? 115.0 Ac. acres
b. Total acreage to be physically disturbed? Subdivision = 1.62 acres Site Plan = 9.05 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 115.0 Ac. acres

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

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
Commercial/Industrial Subdivision

ii. Is a cluster/conservation layout proposed? Yes No
iii. Number of lots proposed? 2 lots
iv. Minimum and maximum proposed lot sizes? Minimum 19.06 Maximum 94.93

e. Will the proposed action be constructed in multiple phases? Yes No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
• Total number of phases anticipated _____
• Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
• Anticipated completion date of final phase _____ month _____ year
• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures 4

ii. Dimensions (in feet) of largest proposed structure: 32' height; 68' width; and 158' length

iii. Approximate extent of building space to be heated or cooled: 10,744 square feet (largest building)

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source. _____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): Federal Wetlands PF01E, NYSDEC Wetlands PV-67 and Town of Wappinger

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:
Approximately 200 linear feet (7,000 sq. ft. of the proposed road will extend over the existing stream and regulated wetland area.

Type text here

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes No
If Yes, describe: _____

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

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

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

If Yes:

i. Total anticipated water usage/demand per day: 720 gallons/day (60 employees x 12 gpm)

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

If Yes:

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

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

If Yes:

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

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

If Yes:

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

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

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

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

If Yes:

i. Total anticipated liquid waste generation per day: 720 gallons/day (60 employees x 12 gpm)

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

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

If Yes:

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

• Do existing sewer lines serve the project site? Yes No
 • Will a line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):
 An individual subsurface sewage disposal system will be provided on Lot 1 which will discharge to groundwater.

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: n/a

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 Subdivision = 28,795 Square feet or 0.66 acres (impervious surface) Site Plan=153,405 Square Feet or 3.52 acres (impervious surface)
 500,7602 Square feet or 115.0 acres (parcel size)
 ii. Describe types of new point sources. proposed overland flow

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?
on-site stormwater management facilities

 • If to surface waters, identify receiving water bodies or wetlands: _____

 • Will stormwater runoff flow to adjacent properties? Yes No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____
12 kWh per year

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):
Central Hudson _____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: 7:00 a.m. to 5:00 p.m. _____ • Saturday: 7:00 a.m. to 2:00 p.m. _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: 7:00 a.m. to 7:00 p.m. _____ • Saturday: 7:00 a.m. to 5:00 p.m. _____ • Sunday: 8:00 a.m. to 4:00 p.m. _____ • Holidays: _____
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m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No
 If yes:
 i. Provide details including sources, time of day and duration:

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: _____

n. Will the proposed action have outdoor lighting? Yes No
 If yes:
 i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:
 Wallpack lighting on building and street pole lighting on access drive. Lighting will comply with Town of Wappinger lighting ordinance.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No
 If Yes:
 i. Product(s) to be stored _____
 ii. Volume(s) _____ per unit time _____ (e.g., month, year)
 iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No
 If Yes:
 i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No
 If Yes:
 i. Describe any solid waste(s) to be generated during construction or operation of the facility:
 • Construction: _____ tons per _____ (unit of time)
 • Operation : _____ tons per _____ (unit of time)
 ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
 • Construction: _____

 • Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:
 • Construction: _____

 • Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

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

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

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

E. Site and Setting of Proposed Action

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

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.00	4.18	+4.18
• Forested	72.41	61.68	-10.73
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0.00	0.00	0.00
• Agricultural (includes active orchards, field, greenhouse etc.)	0.00	0.00	0.00
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.05	0.05	0.00
• Wetlands (freshwater or tidal)	41.82	41.82	0.00
• Non-vegetated (bare rock, earth or fill)	0.72	0.00	-0.72
• Other Describe: Lawn / landscaped area	0.00	7.27	+7.27

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities: _____

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:
• Dam height: _____ feet
• Dam length: _____ feet
• Surface area: _____ acres
• Volume impounded: _____ gallons OR acre-feet
ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection: _____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No
• If yes, cite sources/documentation: _____
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: _____
iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: _____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s): _____

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

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

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ >5 feet

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

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

BeC - Bernardston silt loam	36 %
Ca - Canandaigua silt loam	13 %
DwB - Dutchess Cardigan Complex	13 %
Wy - Wayland silt loam	38 %

d. What is the average depth to the water table on the project site? Average: >5 feet

e. Drainage status of project site soils: Well Drained: 49 % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained 51 % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: 67 % of site
 10-15%: 17 % of site
 15% or greater: 16 % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

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

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

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

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

- Streams: Name 857-24, 857-17 Classification B, B(T)
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters, NYS Wetland, Federal Waters Approximate Size 26.3 ac.
- Wetland No. (if regulated by DEC) PV-67

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

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

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

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

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

If Yes:

i. Name of aquifer: Principal Aquifer

m. Identify the predominant wildlife species that occupy or use the project site: Birds _____ Small mammals (squirrels/chipmunks) _____ Mammals (Woodchucks, racoons, skunks) _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Species and listing (endangered or threatened): _____ Indiana Bat per the NYSDEC EAF Mapper _____	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Species and listing: _____ _____	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: DUTC022	
b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? Yes No

If Yes:

i. Nature of historic/archaeological resource: Archaeological Site Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based: _____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? Yes No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? Yes No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: Phase 1A & 1B Cultural Resource Investigation, prepared by Joseph E. Diamond, Ph.D., dated 11-7-08 and Phase 1B Cultural Resource Investigation Addendum & Phase 2 Site Evaluation of Rail Trail Precontact Locs 2, prepared by Joseph E. Diamond, Ph.D., dated 02-22-10. _____

h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? Yes No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? Yes No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? Yes No

F. Additional Information

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

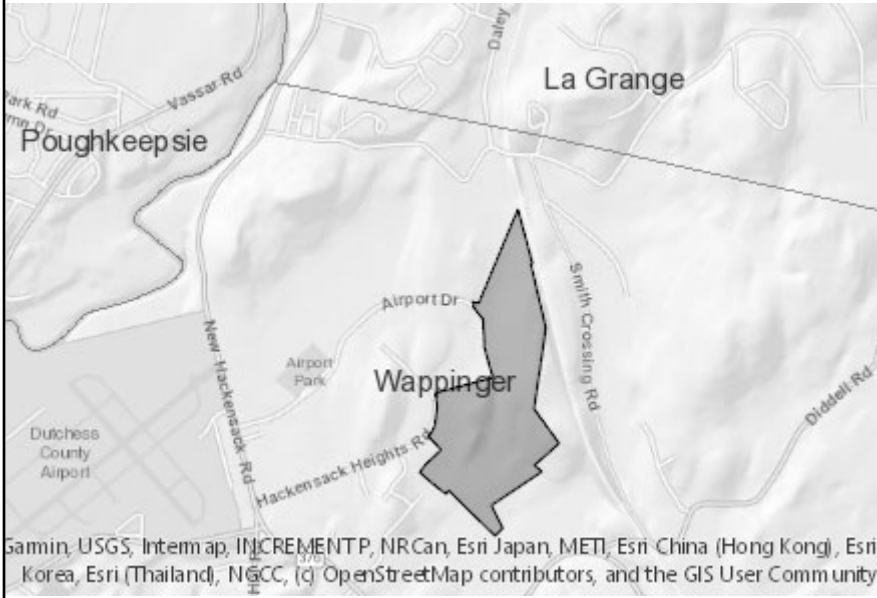
If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

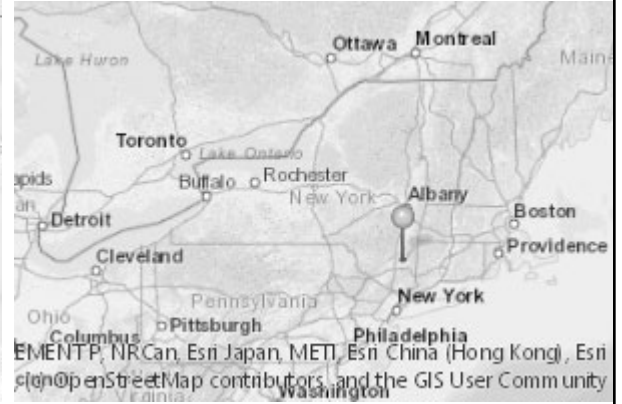
I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name  Date 12-7-20

Signature Frank Buyakowski - Global Satellite, LLC Title Member Manager



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



Gamin, USGS, Interm ap, INCREMENTP, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

INCREMENTP, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	857-24, 857-17
E.2.h.iv [Surface Water Features - Stream Classification]	B, B(T)
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters, NYS Wetland
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):26.3
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	PV-67
E.2.h.v [Impaired Water Bodies]	No

E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Indiana Bat
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	Yes
E.3.a. [Agricultural District]	DUTC022
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Agency Use Only [If applicable]

Project :
 Date :

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer “**Yes**” to a numbered question, please complete all the questions that follow in that section.
- If you answer “**No**” to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box “Moderate to large impact may occur.”
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the “whole action”.
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) <i>If “Yes”, answer questions a - j. If “No”, move on to Section 2.</i>			
		<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

NO

YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

NO

YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. NO YES
(See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)
If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: <u>Proposed impervious areas will increase stormwater runoff</u> _____		<input checked="" type="checkbox"/>	<input type="checkbox"/>

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. NO YES
(See Part 1. E.2)
If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in development within a 100 year floodplain.	E2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in development within a 500 year floodplain.	E2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	<input type="checkbox"/>	<input type="checkbox"/>
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	<input type="checkbox"/>	<input type="checkbox"/>

g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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6. Impacts on Air			
The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) <i>If "Yes", answer questions a - f. If "No", move on to Section 7.</i>		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: i. More than 1000 tons/year of carbon dioxide (CO ₂) ii. More than 3.5 tons/year of nitrous oxide (N ₂ O) iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs) iv. More than .045 tons/year of sulfur hexafluoride (SF ₆) v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions vi. 43 tons/year or more of methane	D2g D2g D2g D2g D2g D2h	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

7. Impact on Plants and Animals			
The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) <i>If "Yes", answer questions a - j. If "No", move on to Section 8.</i>		<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	<input checked="" type="checkbox"/>	<input type="checkbox"/>

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

8. Impact on Agricultural Resources			
The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.)		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
<i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

9. Impact on Aesthetic Resources The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) <i>If "Yes", answer questions a - g. If "No", go to Section 10.</i>				<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>		
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	<input type="checkbox"/>	<input type="checkbox"/>		
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>		

10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) <i>If "Yes", answer questions a - e. If "No", go to Section 11.</i>				<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

d. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
e. If any of the above (a-d) are answered “Moderate to large impact may occur”, continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	<input type="checkbox"/>	<input type="checkbox"/>
ii. The proposed action may result in the alteration of the property’s setting or integrity.	E3e, E3f, E3g, E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>

11. Impact on Open Space and Recreation The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) <i>If “Yes”, answer questions a - e. If “No”, go to Section 12.</i>				<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur	
a. The proposed action may result in an impairment of natural functions, or “ecosystem services”, provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	<input type="checkbox"/>	<input type="checkbox"/>	
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	<input type="checkbox"/>	<input type="checkbox"/>	
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	<input type="checkbox"/>	<input type="checkbox"/>	
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	<input type="checkbox"/>	<input type="checkbox"/>	
e. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	

12. Impact on Critical Environmental Areas The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) <i>If “Yes”, answer questions a - c. If “No”, go to Section 13.</i>				<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur	
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>	
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>	
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>	

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems.

 NO YES

(See Part 1. D.2.j)

If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action will degrade existing transit access.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy.

 NO YES

(See Part 1. D.2.k)

If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Other Impacts: _____ _____		<input checked="" type="checkbox"/>	<input type="checkbox"/>

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting.

 NO YES

(See Part 1. D.2.m., n., and o.)

If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in routine odors for more than one hour per day.	D2o	<input type="checkbox"/>	<input type="checkbox"/>

d. The proposed action may result in light shining onto adjoining properties.	D2n	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.)
If "Yes", answer questions a - m. If "No", go to Section 17.

NO

YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	<input type="checkbox"/>	<input type="checkbox"/>
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	<input type="checkbox"/>	<input type="checkbox"/>
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	<input type="checkbox"/>	<input type="checkbox"/>
m. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans.
 (See Part 1. C.1, C.2. and C.3.)
 If "Yes", answer questions a - h. If "No", go to Section 18.

NO

YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	<input type="checkbox"/>	<input type="checkbox"/>
h. Other: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character.
 (See Part 1. C.2, C.3, D.2, E.3)
 If "Yes", answer questions a - g. If "No", proceed to Part 3.

NO

YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

Global Business Park Subdivision & Site Plan for Central Dutchess Industrial Center
Airport Drive, Town of Wappinger, NY
Tax Grid No. 135689-6259-04-908414

PART 3 – EVALUATION OF THE MAGNITUDE & IMPORTANCE OF PROJECT IMPACTS AND DETERMINATION OF SIGNIFICANCE

1. *Impact on Land:* *Proposed action may involve construction on, or physical alteration of the land surface of the proposed site.*

The owner/applicant is proposing to subdivide the 115.0 ac. vacant parcel into 2 commercial building lots and extend Airport Drive to provide access to both parcels. The proposed lots and site plan on proposed Lot 1 will be consistent with the designated Town Zoning and adjacent land uses.

3. *Impact on Surface Water:* *The proposed action may affect one or more wetlands or other surface water bodies.*

The proposed project will require a wetland disturbance and a stream disturbance permit for the proposed activity with the wetland and the existing stream. Standardized erosion control measures will be implemented during construction to protect exposed soils from adverse erosion. Implementation of a Stormwater Pollution Prevention Plan (SWPPP) providing stormwater management facilities, grading improvements and stabilization of all exposed soils with permanent vegetation will mitigate potential impacts on stormwater runoff quality and quantity.

7. *Impact on Plants and Animals:* *The proposed action may result in a loss of flora or fauna.*

The proposed action proposes to fill 0.40 acres of wetlands, stream and brush for the extension of Airport Drive. In addition, the site plan on proposed Lot 1 proposes to develop 3.98 acres of forest, meadow, grassland and/or brush lands for four (4) commercial buildings: two (2) 5,848 square foot building, one (1) 8,568 square foot building and one (1) 10,744 square foot building with associated parking. The impervious surfaces have been minimized and proposed road, driveway, and building are consistent with Town Zoning.

As per the NYSDEC, EAF Mapper the project site contains rare or state-listed animals or plants, or significant natural communities directly on the project property. The Indiana Bat has been documented on or near the project site. The project will not impact the endangered/threatened species as there is nothing directly on the project property based on previous Bat Survey. However, to mitigate potential impacts to the Indiana Bat, tree will be cut between November 1st and March 31st. All stormwater runoff from the project will be mitigated in accordance with stormwater regulations by implementing a Stormwater Pollution Prevention Plan (SWPPP).

10. Impact on Historic and Archeological Resources: *The proposed action may occur in or adjacent to a historic or archaeological resource.*

See attached Phase 1, Phase 1B and Phase 2 reports.

14. Impact on Energy: *The proposed action may cause an increase in the use of any form of energy.*

The proposed construction of the four (4) commercial buildings (two (2) 5,848 square foot building, one (1) 8,568 square foot building and one (1) 10,744 square foot building) will increase the demand for electric and gas. Central Hudson has the facilities in place to support this use.

**PHASE 1 CULTURAL RESOURCE INVESTIGATION
PROPOSED RAIL TRAIL SUBDIVISION
TOWN OF WAPPINGER, DUTCHESS CO., NY**

DEC# 3-1356-00253/00001

PREPARED FOR:

POVALL ENGINEERING, PLLC

1906 ROUTE 52, SUITE 4

WICCOPEE PLAZA

HOPEWELL JUNCTION, NY 12533

NOVEMBER 7th, 2008

PREPARED BY: JOSEPH E. DIAMOND, Ph.D.

290 OLD ROUTE 209,

HURLEY, N.Y. 12443

845-338-0091



PROJECT REVIEW COVER FORM

Rev. 10-04

Please complete this form and attach it to the top of any and all information submitted to this office for review.
 Accurate and complete forms will assist this office in the timely processing and response to your request.

This information relates to a previously submitted project.

If you have checked this box and noted the previous Project Review (PR) number assigned by this office you do not need to continue unless any of the required information below has changed.

PROJECT NUMBER _____ PR _____

COUNTY Dutchess

2. This is a new project.

If you have checked this box you will need to complete ALL of the following information.

Project Name Rail Trail Subdivision

Location End of Airport Drive
 You MUST include street number, street name and/or County, State or Interstate route number if applicable

City/Town/Village Wappingers
 List the correct municipality in which your project is being undertaken. If in a hamlet you must also provide the name of the town.

County Dutchess
 If your undertaking* covers multiple communities/counties please attach a list defining all municipalities/counties included.

TYPE OF REVIEW REQUIRED/REQUESTED (Please answer both questions)

A. Does this action involve a permit approval or funding, now or ultimately from any other governmental agency?

No Yes

If Yes, list agency name(s) and permit(s)/approval(s)

Agency involved	Type of permit/approval	State	Federal
<u>SEQRA</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>SPEDES</u>	<u>(DEC)</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Stream Crossing</u>	<u>(DEC)</u>	<input type="checkbox"/>	<input type="checkbox"/>

B. Have you consulted the NYSHPO web site at <http://www.nysparks.state.ny.us/shpo> to determine the preliminary presence or absence of previously identified cultural resources within or adjacent to the project area? If yes:

Yes No

Was the project site wholly or partially included within an identified archeologically sensitive area?

Yes No

Does the project site involve or is it substantially contiguous to a property listed or recommended for listing in the NY State or National Registers of Historic Places?

Yes No

CONTACT PERSON FOR PROJECT

Name William Povall Title Engineer

Firm/Agency Povall Engineering, PLLC

Address 1906 Route 52, Suite 4 City Hopewell Jct STATE NY Zip 12533

Phone (845) 897-8205 Fax (845) 897-0042 E-Mail bill.p@Povallengineering.com

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MAPS

1. New York State.
2. U.S.G.S. Pleasant Valley and Hopewell Junction Quadrangles.
3. Project Map (enclosure).
4. Dutchess County Soils Map (sheets 12 and 17).
5. 1850 Sidney Map of Dutchess County.
6. 1858 Gillette Map of Dutchess County.
7. 1867 Map of Dutchess County
8. 1876 New Illustrated Historical Atlas of Dutchess County.
9. Phase 1B Archaeological Testing. Northern portion of project area (enclosure).
10. Phase 1B Archaeological Testing. Southern portion of project area (enclosure).

PHOTOGRAPHS

1. Eastern edge of project area along baseline. View south.
2. Shovel testing near ST# 96. View west.
3. Shovel testing near ST# 261. View east up slight incline.
4. Cul-de-sac at end of Airport Drive. View east.
5. Small stream and wetland to be crossed at end of Airport Drive. View east.
6. Left: Projectile point fragment, ST# 224. Right: Tertiary flake of white quartzite, ST# 654.

TABLES

1. Listed sites at NYSM and OPRHP.

APPENDICES

1. Shovel Test Record.
2. OPRHP Prehistoric Site Inventory Forms (2).

CULTURAL RESOURCE INVESTIGATION

Management Summary

SHPO: Project Review #: **DEC# 3-1356-00253/00001**

Involved State and Federal Agencies: **SEQRA, SPDES GP-002-01**
Stream Crossing permit

Phase of Survey: **Phase 1**

Location Information:

Survey Area (Metric and English): **114.30 acre (46.26 hectare)**
Length: **c. 5200 ft (1585 m) north/south**
Width: **c. 2000 ft (610 m) east/west**

USGS 7.5 Minute Quadrangle Map: **Pleasant Valley and Hopewell Junction Quadrangles**
Archaeological Survey Overview:

Results of Archaeological Survey

Number & name of prehistoric sites identified: **Two.**
Rail Trail Subdivision, Locus 1
Rail Trail Subdivision, Locus 2

Number & name of historic sites identified: **None.**

Number & name of sites recommended for Avoidance: **Rail trail**
Subdivision, Locus 2

Results of Architectural Survey

Number of buildings/structures/cemeteries within project area: **None**

Number of buildings/structures adjacent to project area: **None.**

Number of previously determined NR listed or eligible

buildings/structures/cemeteries/districts: **None**

Number of identified eligible buildings/structures/cemeteries/districts: **None**

Report Author: **Joseph E. Diamond, Ph.D.**

Date of Report: **11/7/08**

PHASE 1A ARCHAEOLOGICAL SURVEY

Introduction

This cultural resource survey was conducted to evaluate the proposed Rail Trail Subdivision in the Town of Wappinger, Dutchess County, NY (Maps 1 and 2). The project area is a 114.30 acre (46.26 hectare) parcel located at the end of Airport Drive. The project area is a roughly diamond-shaped parcel with numerous projections that abut Hackensack Heights Road in its southwestern portion, and the old New York and New Haven Railroad line, now Consolidated Rail, along a portion of its eastern edge (Map 3). The proposed project is at this point a subdivision with 44.6 acres (18.05 ha) of wetland, 30.68 acres (12.4 ha) of wetland buffer, and a proposed stream crossing from Airport Drive to provide access. The APE is defined on Map 3 (enclosure). The project area is currently a combination of fields, partially grown in fields and woodland. The author was contacted by Mr. Frank Buyakowski of Global Satellite, LLC the owner of the property in July of 2008. A literature survey was conducted at OPRHP by Croshier Archaeological Research on 7/24/08.

Environmental/Physical Setting

The project area consists of 114.30 acres (46.26 hectares) of which about 44 acres (17 ha) will be disturbed by construction activities. A walkover of the project area found no indication of any rock face or outcrop large enough to permit use as a prehistoric rockshelter or windbreak. There are no locations within the project area where bedrock outcrops break the surface.

The flora in the project area is composed of maple, hickory, shagbark hickory, ash, white and red oak, elm, dogwood, beech, locust, cherry, tulip tree, sassafras, white pine, cedar, elm, and sumac. Ground species include ferns, skunk cabbage, wild rose, poison ivy, mountain ivy, and various grasses.

The soils in the project area (Map 4) consist of Troy Gravelly loam, sloping phase (Te), Troy Gravelly loam, gently sloping phase (Tc), Albia gravelly silt loam, gently sloping phase (Aa), Boynton gravelly silt loam (Bd), Cossayuna gravelly loam, undulating and rolling phases (Cx), and Wayland (We) silt-loams in the wetlands (Dutchess County Soil Survey 1955: Sheets 12 and 17).

The bedrock geology consists primarily of the Upper Ordovician Austin Glen Formation of greywacke and shale, and the Normanskill Formation of shale, argillite and siltstone (Fisher *et al.* 1970: Lower Hudson Sheet).

Background Research

PREHISTORIC ARCHAEOLOGICAL SITES

A search of the site files at the Office of Parks, Recreation and Historic Preservation (including the New York State Museum's prehistoric site files) on 7/24/08 by Croshier Archaeological Research located five pre-contact sites within a one mile radius of the project area (see Table 1). Of these, four have no information on archaeological phase/culture, and one is a Paleo-Indian site. None are located within the project area.

HISTORIC ARCHAEOLOGICAL SITES

The site file search located one historic archaeological site within a one mile radius of the project area. This is the Tangredi Farm site, an 18th to 19th century farm. Within a one mile radius are three historic structures (A027-19-0009, 0010, and 0011). A total of four additional archaeological surveys (City/Scape 2006, Cohen 2003, Diamond 2000, Werner and Werner 2007) were conducted within a one mile radius.

An examination of four historic maps of the area was informative. Map 5, the 1850 Sidney Map, shows no structures within the project area. The same is true for Map 6 (1858 Gillette), Map 7 (1867 Beers Map), and Map 8 (1876 Grey's Atlas). Based on a walkover and an examination of soil cuts, it appears that the project area is reforested farm fields. The structures immediately surrounding the project area are new ranch houses and split levels, except for those that have been sent in on structure forms for other adjacent

surveys. Structures on Airport Road are recent industrial or business buildings. Consequently, no OPRHP Historic Structure Forms were filled out for the project area.

Sensitivity Assessment

PREHISTORIC

The literature search at OPRHP located five known prehistoric sites within a one mile (+) radius of the project area. Of the five, there is no information on four of them, and one is a Paleo-Indian fluted point found during a shovel testing survey. The closest site is 1000 feet away, and the Paleo-Indian site is c. 5500 feet away, or just on the edge of a one mile radius. Because of the presence of five pre-contact sites within a one mile radius, and the fact that there is a small drainage along the western edge of the project area, the project area should be considered high to moderately sensitive to the presence of prehistoric archaeological sites.

HISTORIC

Based on an examination of four historic maps of the project area, as well as a thorough walkover, the possibility of encountering historic archaeological resources in the project area is considered low. There are no 19th century map documented structures (MDS) within the project area, and none were found during an extensive walkover.

Recommendations

The proposed project area's proximity to five known prehistoric sites would suggest that prehistoric archaeological materials and/or sites might be found in the project area. Due to the project area's potentially sensitive location near a small brook, it is recommended that a Phase 1B Archaeological Field Investigation be conducted. In this case, hand-excavated, hand-screened shovel tests should be placed at 50 foot (15.2 m) intervals (or less) within the Area of Proposed Effect (APE). All excavated soils should be screened through 1/4 inch hardware mesh and examined for prehistoric and historic artifacts. A Munsell soil color chart should be used to determine soil colors.

PHASE 1B ARCHAEOLOGICAL RECONNAISSANCE

Research Design

Field reconnaissance was begun in early July of 2008 and completed in early September of 2008. As suggested in the Phase 1A, shovel testing was undertaken in the Area of Proposed Effect (APE), which is c. 44 acre portion of the project area that does not include the wetlands and wetland buffers.

Field Methods and Procedures

Field methods included the laying out of flagged transects along the eastern border at 50 foot intervals from the northernmost point in the project area to the southernmost (Photograph 1). These were labeled transects 1 through 79, and shovel tests were given letter designations that proceeded from east to west down each of these transects. These were then re-numbered and placed on the site plan at the end of each day. Some areas within the project area were open, such as the eastern baseline (Photograph 1), but in other locations brush-hogging was accomplished to clear transects or open up areas for testing through dense underbrush (Photographs 2 and 3). The testing procedure covered the entire APE, or the area outside the wetlands and the wetland buffer (see maps 9 and 10). It did not normally include areas of steep slope (greater than 15 degrees), although several of these locations in excess of 25 degrees overlooking the wetland buffer were tested. Testing also included the dry projection of land in the southern portion of the project area that is to be turned into wetland as part of the wetland mitigation procedure (Map 10). This area is composed of relatively level open woodland, although two sections of it (Map 10) were composed of conditions containing very wet to actual standing water, and this was during a dry part of the summer. The shovel testing did not include the area at the end of Airport Drive that has been previously disturbed

by road construction (Map 9, Photograph 4), nor did it include the stream and wetland of the stream to be crossed (Map 9, Photograph 5). Additionally, a small section in a corner of the project area had prior disturbance due to bulldozer activity, and was not tested (see Map 10).

Due to the large size of the project area the APE was expanded to two maps (Maps 9 and 10). Map 9 shows the testing program of shovel tests 1-324 in the northern portion of the APE, while Map 10 shows the testing program including shovel tests 325-703 in the southern portion.

All soil was screened through 1/4 inch hardware cloth. A Munsell soil color chart was used to determine soil colors.

Results of Field Investigation

A total of 703 initial shovel tests (Photographs 2 and 3) were excavated throughout the project area (see Appendix 1). The testing covered the entire project area, with the several exceptions mentioned above. In almost every case, shovel tests penetrated stratum 1, which consisted of a brown silty loam with fine gravel, and ended in sterile yellowish brown silt with fine gravel. Overall the soils tended to range from a brown silty loam with gravel in the northern portion changing to over to a dark grayish brown silty loam with gravel in the middle of the project area, and then becoming more olive brown as one moved into the last 1/3 of the project area. The subsoil changed slightly from a yellowish brown silt with fine gravel and the occasional cobble, to light yellow brown silt with gravel as one moved south.

Of the 703 initial shovel tests three located pre-contact artifacts. Shovel test #224 located the tip and midsection of a projectile point made of green Normanskill chert (Photograph 6, left). Eight large radials (as per the 2005 *Guidelines*) around this find located no additional artifacts, and as a consequence, it is considered an isolated find. This isolated find is called Rail Trail Pre-Contact Site #1 on an OPRHP Prehistoric Site Inventory Form that appears in Appendix 2.

Further to the south, two initial shovel tests (ST# 654 and 664) located pre-contact artifacts. Shovel test #654 located one tertiary flake (Photograph 6, right), and one biface resharpening flake. Of the eight large shovel tests placed around it, two (654B and 654D) produced one tertiary flake each. Located adjacent to shovel test #654, shovel test #664 yielded one biface. Subsequent shovel tests yielded one secondary decortication flake each from shovel tests 664B, 664C, and 664F. This site is called Rail Trail Pre-Contact Site #2 on an OPRHP Prehistoric Site Inventory Form that appears in Appendix 2.

Conclusion and Recommendations

Shovel testing of the proposed Rail Trail Subdivision targeted the entire APE (with exceptions due to slope, prior disturbance, and standing water) as well as an area to be used as wetland mitigation. Two pre-contact sites were located. The first; Rail Trail Pre-Contact Locus 1 was determined to be an isolated find. No further work is recommended for this location. Rail Trail Pre-Contact Locus 2 produced a total of eight artifacts, although none were temporally diagnostic.

Two forms of avoidance are suggested for this site (Locus 2). The first is the placement of snow fencing around the site prior to construction of the road used to mitigate the wetland. See suggested site boundary on Map 10, with access road to mitigation area defined. The second is the incorporation of the site (Locus 2) into the wetland boundary as a protective measure at the conclusion of the wetland mitigation procedure.

REFERENCES

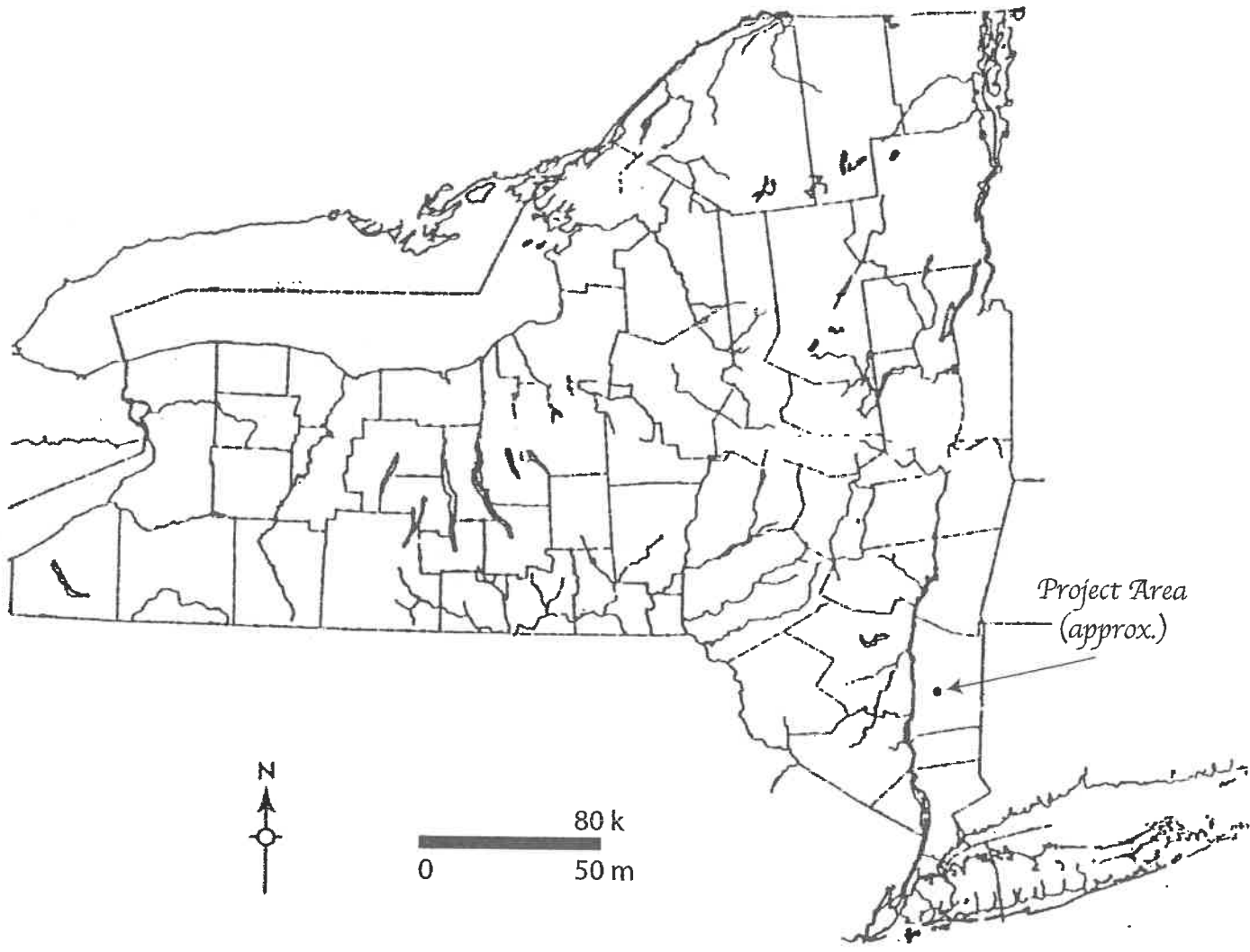
- Beers, F.W.
1867 *Atlas of New York and Vicinity*. Published by Beers, Ellis and Soule, 95 Maiden lane. New York
- Brumbach, Hetty Jo
1981 Stage 1B Archaeological and historical Survey: Proposed Interceptor System for the Tri-Municipal Sewer Improvement Area, Dutchess County, NY C-36-948-01-2. (June 1981)
- City/Scape Cultural Resource Consultants
2006 Phase 1A Literature Review and Sensitivity Analysis & Phase 1B Archaeological Field Reconnaissance Survey. Daley Farms, Daley Road, Town of La Grange, Dutchess County, New York. (October 2006).
- Cohen, Jay R.
2003 Stage 1 Cultural Resource Investigation, Central Dutchess Water Transmission Line, Towns of Poughkeepsie, LaGrange, Wappinger and East Fishkill, Dutchess County, New York. Prepared for Greenplan, Rhinebeck, NY
- Diamond, Joseph E.
2000 SEQR Phase 1B Archaeological Survey, Proposed Weiss Animal Hospital, Village of New Hackensack, Dutchess County, NY (August 2000).
- Fisher, Donald W., Yngvar W. Isachsen, and Lawrence Rickard
1970 *Geologic Map of New York, Lower Hudson Sheet*. The New York State Museum and Science Service Map and Chart Series No. 15, Albany.
- Gillette, John
1858 *Map of Dutchess County, New York from Actual Surveys*. John Gillette Publisher, Philadelphia.
- Gray, C.W. and F.A Davis
1876 *New Illustrated Atlas of Dutchess County*, New York. Reading Pa.
- Hartgen Archaeological Associates (HAA)
1990 Report of Field Reconnaissance, SEQR Parts 1B and 3. Tri-Municipal Sewer, Town of Poughkeepsie, Dutchess County, NY
- Sidney, J.C.
1850 *Map of Dutchess County, New York* (from original surveys).
- Soil Survey of Dutchess County, N.Y.
1955 US Department of Agriculture in Cooperation with Cornell University Agricultural Experiment Station.
- New York Archaeological Council
1994 *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections in New York State*. Adopted by the Office of Parks, Recreation, and Historic Preservation.

Werner, Slobodanka, and Michael R. Werner

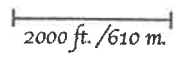
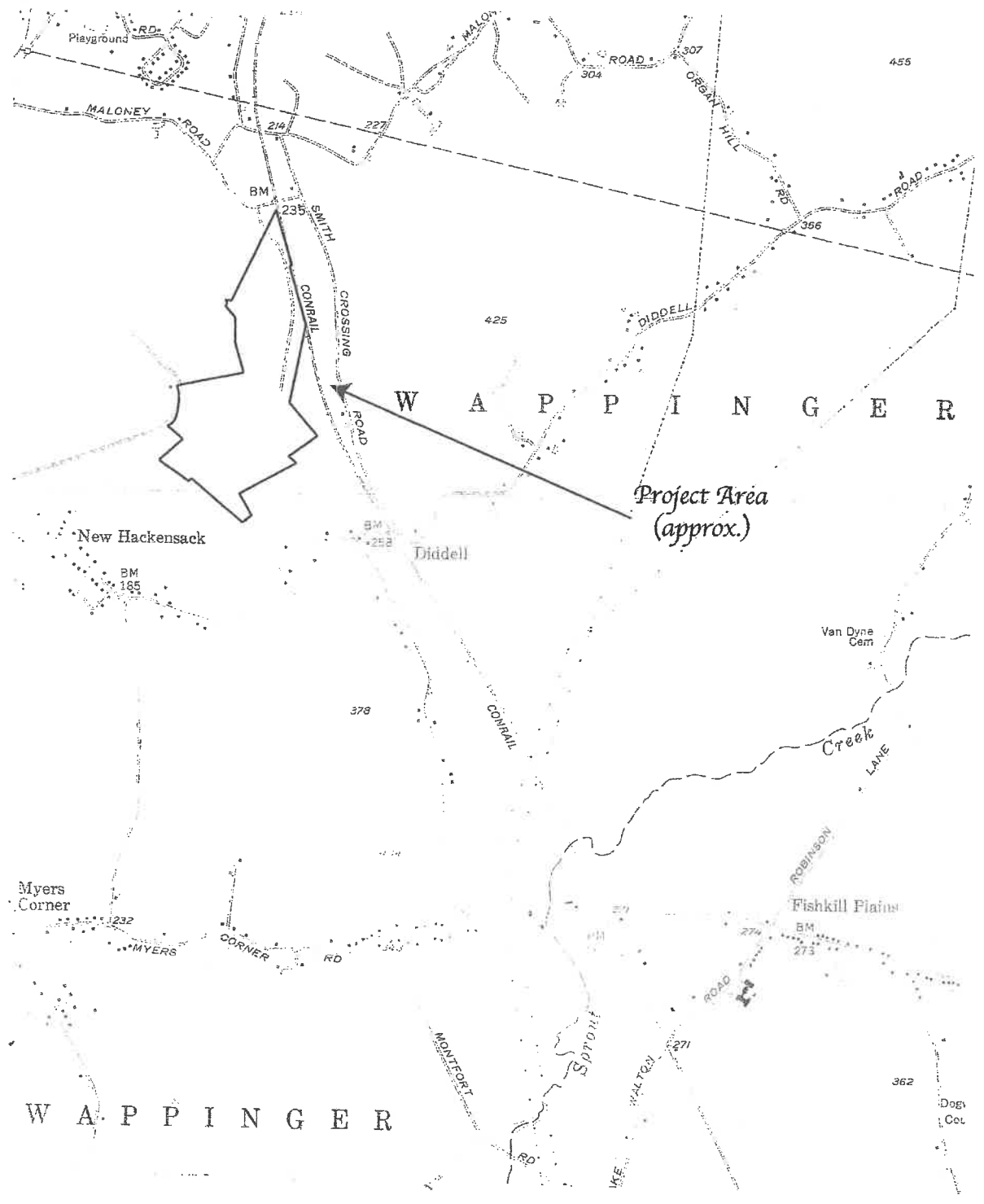
2007

Phase 1 Reconnaissance Survey, Program Year 2007, OPRHP
06PR01619, PIN 8757.53 Dutchess Rail Trail. Didell Road Trailhead,
Town of Wappinger, Dutchess County, New York. (May 2007).

MAPS



Map 1. New York State



Map 2. USGS Hopewell Junction & Pleasant Valley Quadrangles

DATE	DESCRIPTION	REVISIONS

DATE	DESCRIPTION	REVISIONS

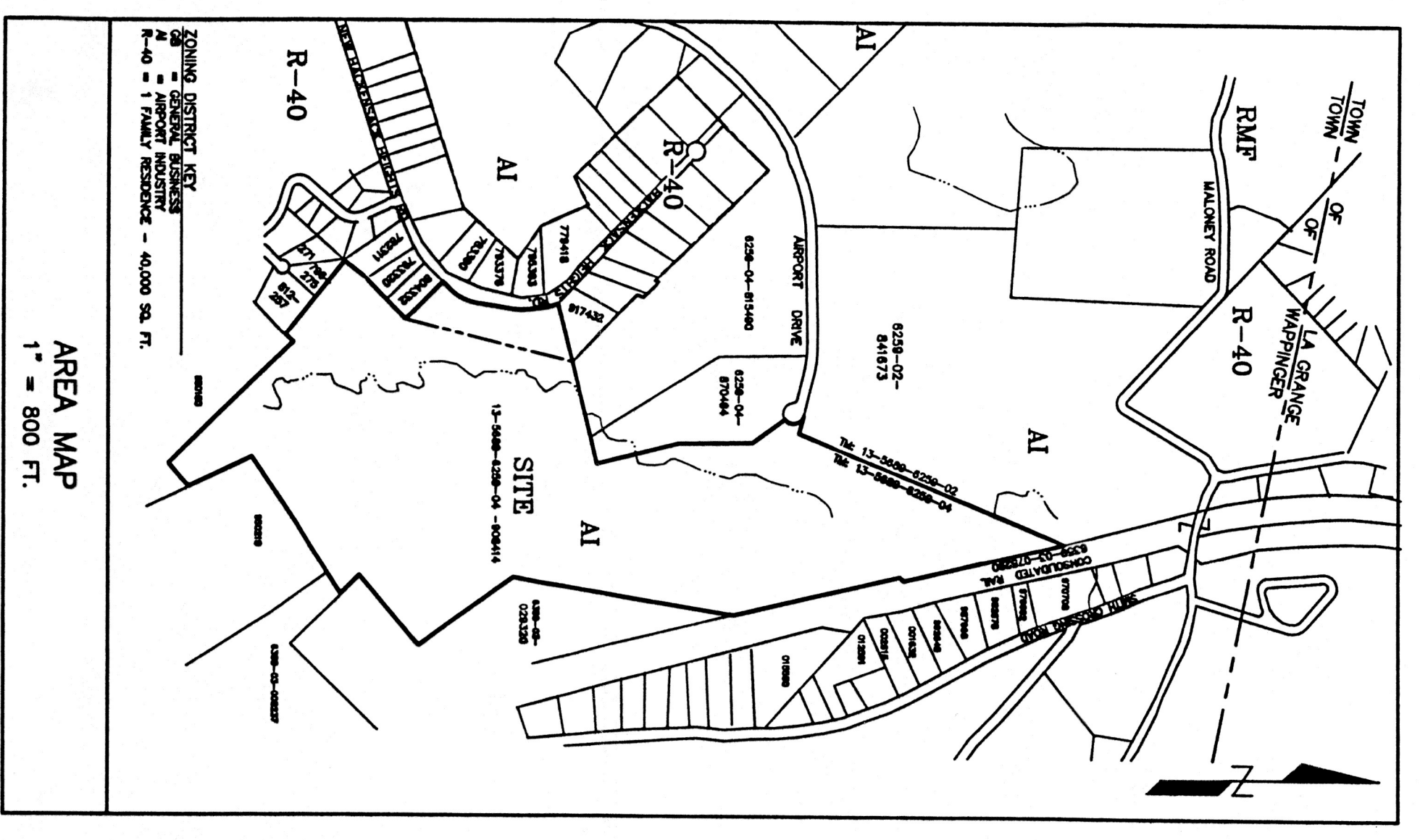
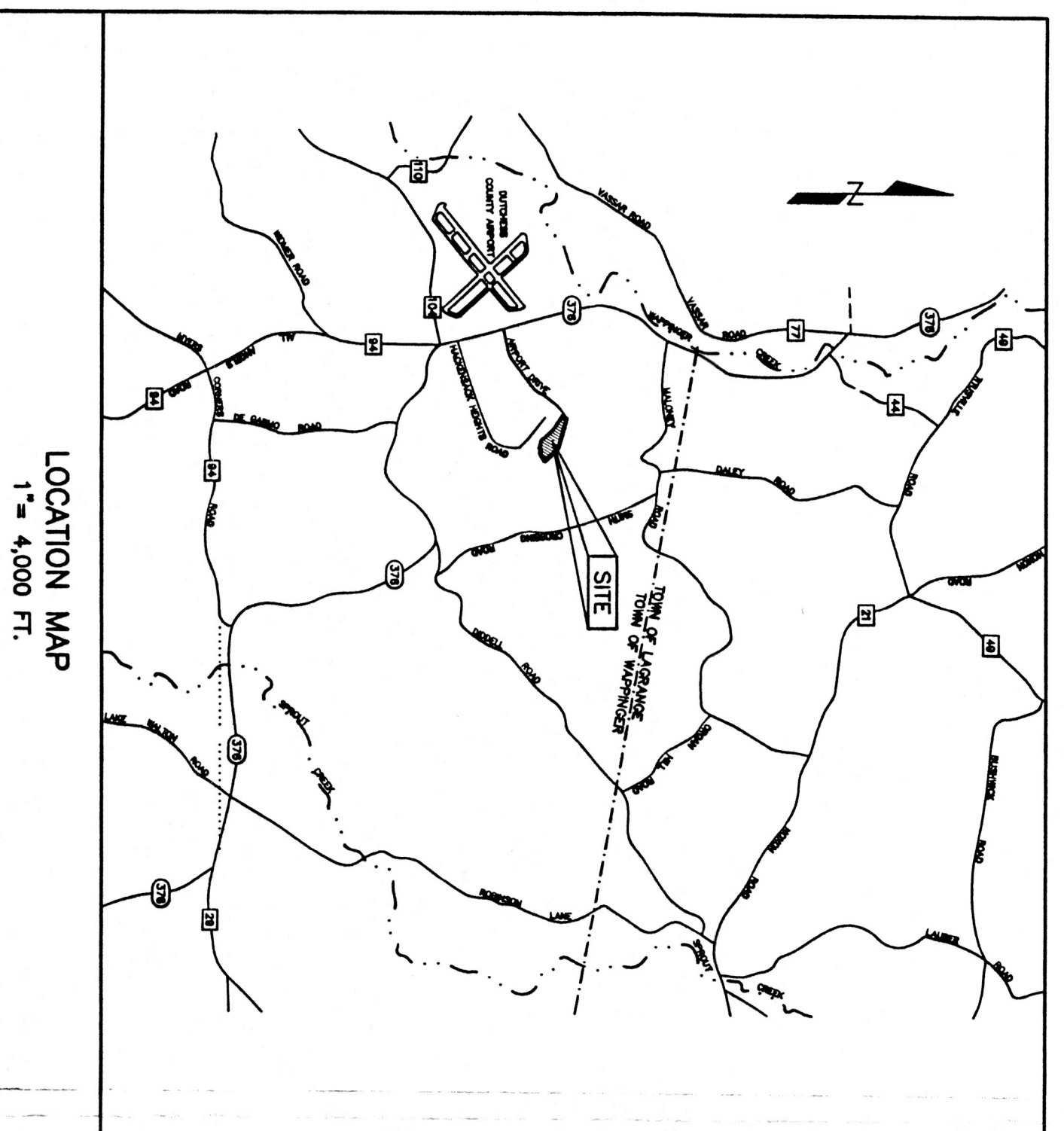
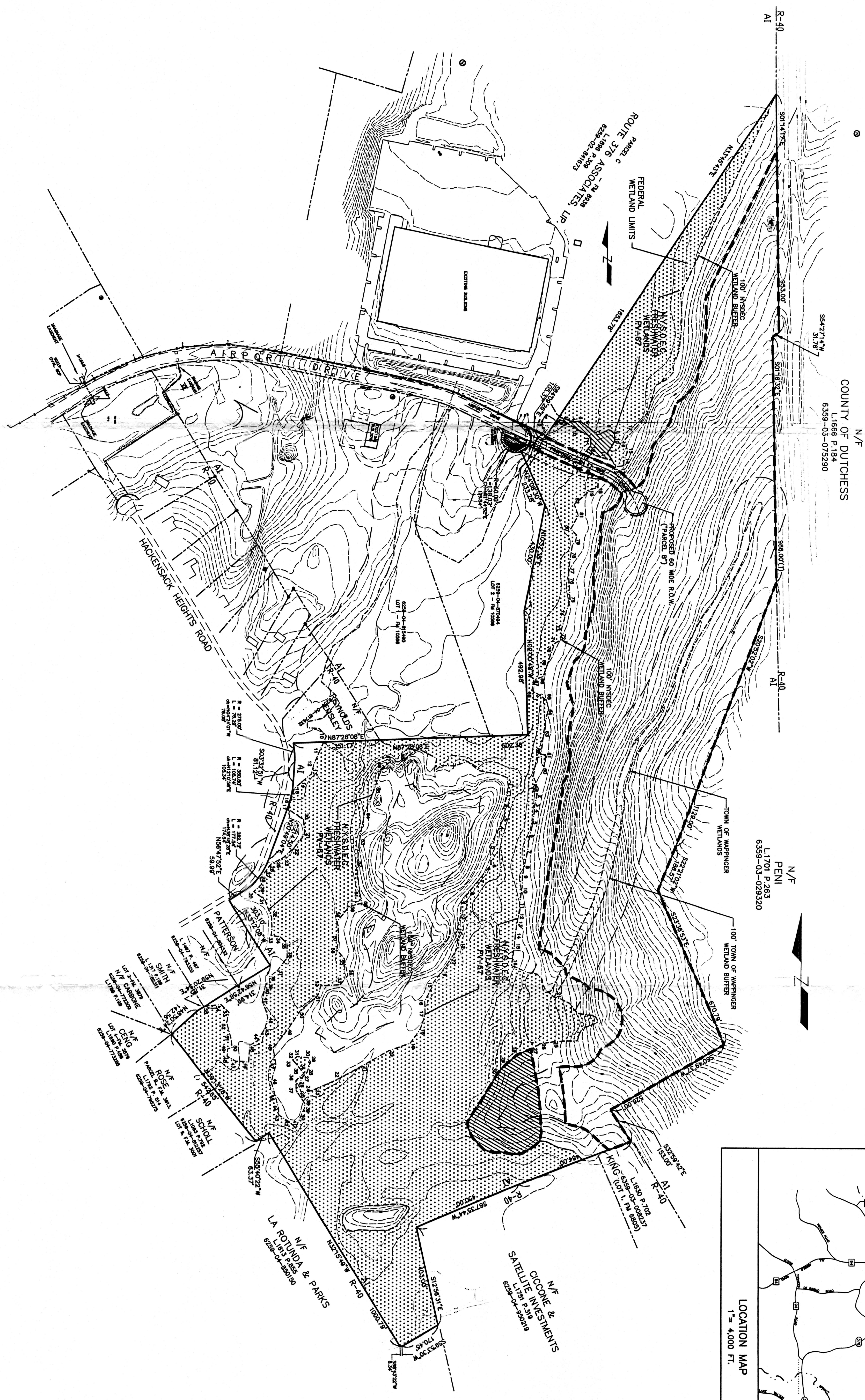
DOVALL
ENGINEERING, PLLC

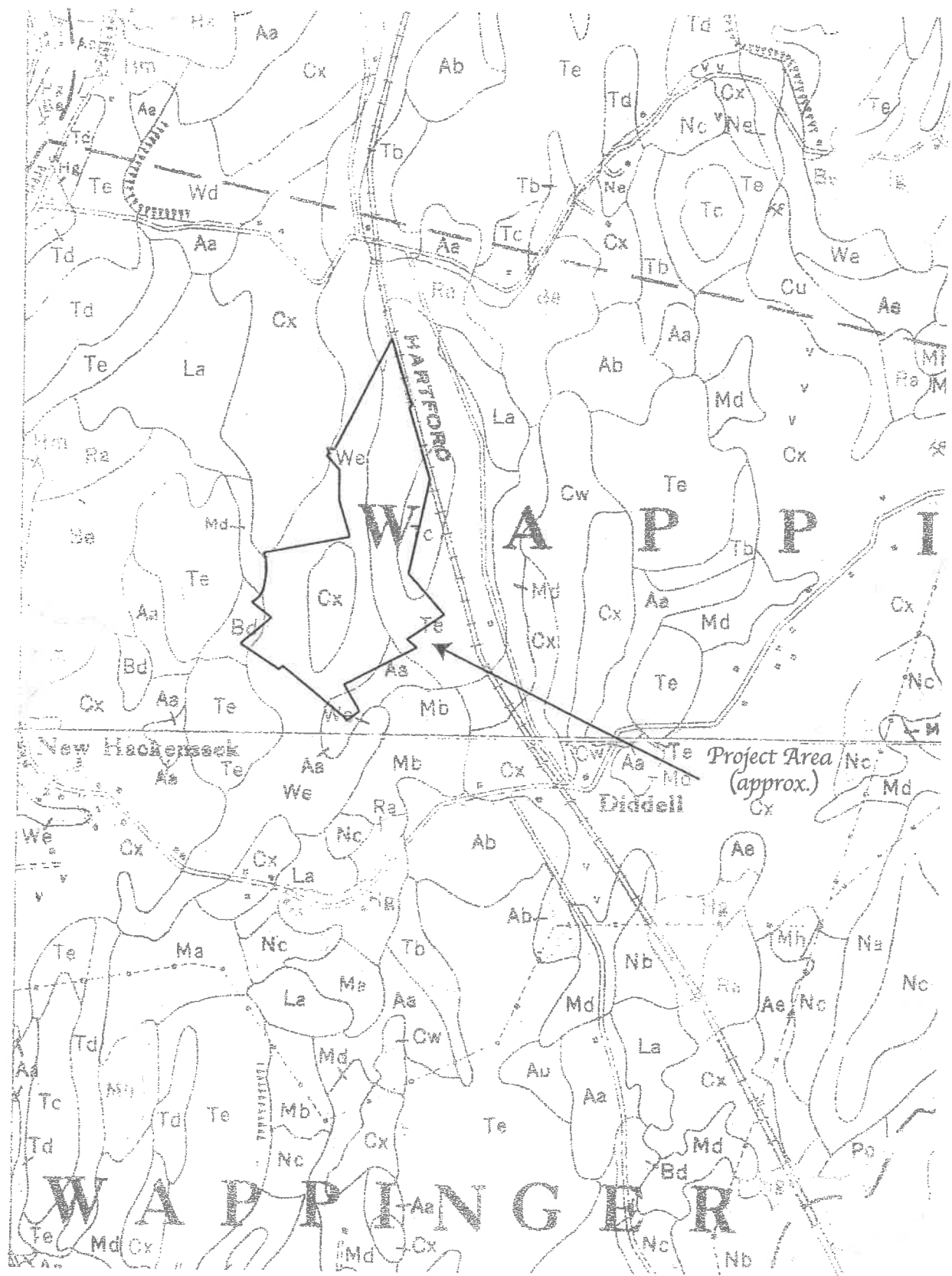
WILLIAM H. DOVALL III, P.E.
N.Y.S. P.E. LICENSE #075200
1408 ROUTE 53, SUITE 4
WILCOPEE PLAZA
HOPEWELL JCT, NY 12533
TEL: (845) 887-2025
FAX: (845) 887-2042

MAP 3: PROJECT MAP
RAIL TRAIL SUBDIVISION
TOWN OF WAPPINGER
DUTCHESS COUNTY, NEW YORK

JOB # 0402
DATE: 10-01-08
SCALE: 1"=200'
AS-1
SHEET 1 OF 1

LEGEND	
	PROPERTY LINE
	EXISTING R.O.W./LOT LINE
	PROPOSED LOTLINE
	EXISTING CONTOUR
	EXISTING WATER COURSE
	EXISTING TREE LINE
	EXISTING PAVEMENT
	WETLAND FLAG
	N.Y.S.D.E.C. ZONE & TOWN JURISDICTIONAL WETLANDS
	N.Y.S.D.E.C. & TOWN 100' BUFFER LIMIT
	N.Y.S.D.E.C. FRESHWATER WETLANDS
	WETLAND MITIGATION AREA
	AREA OF PROPOSED EFFECT

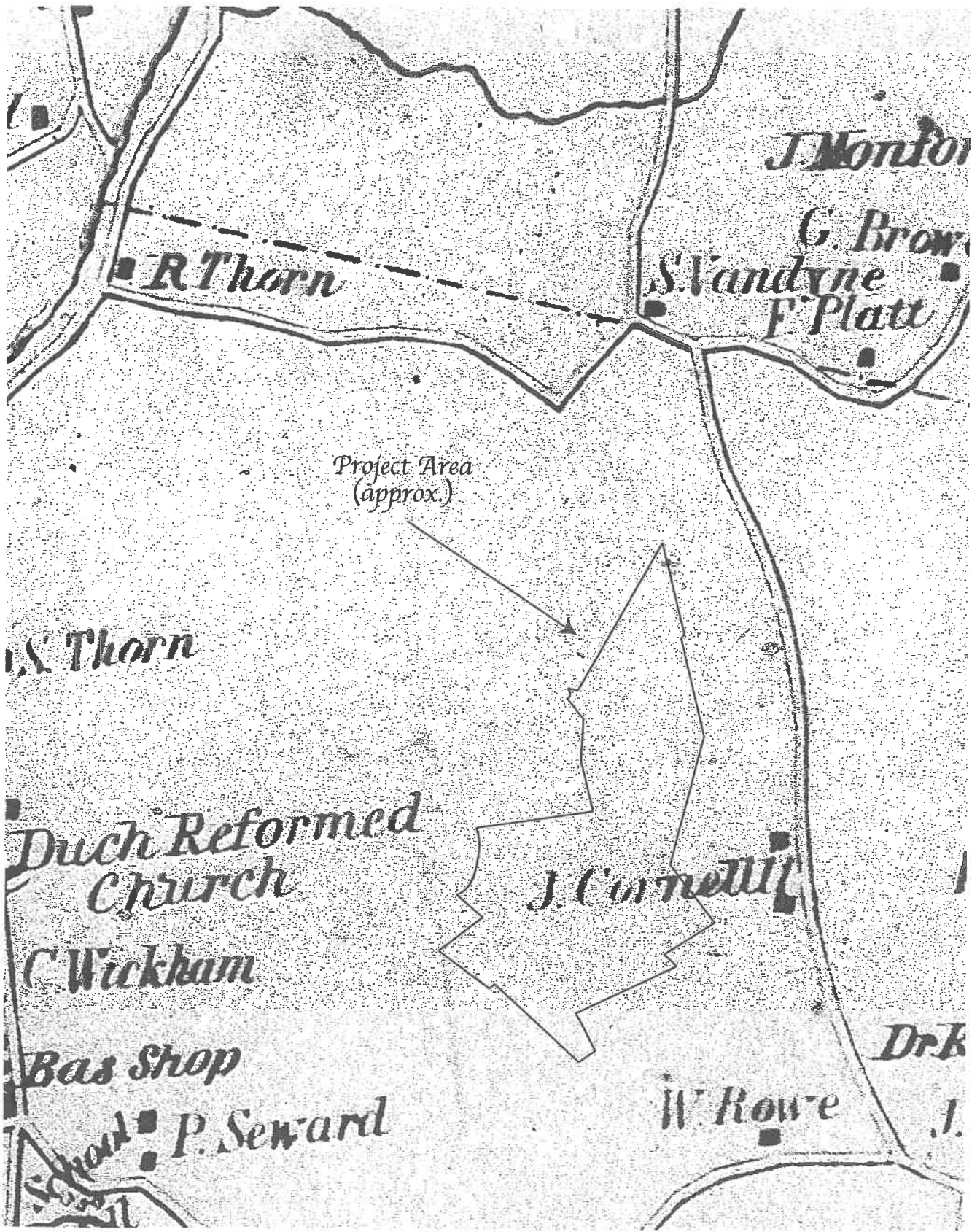




2000 ft./610 m.



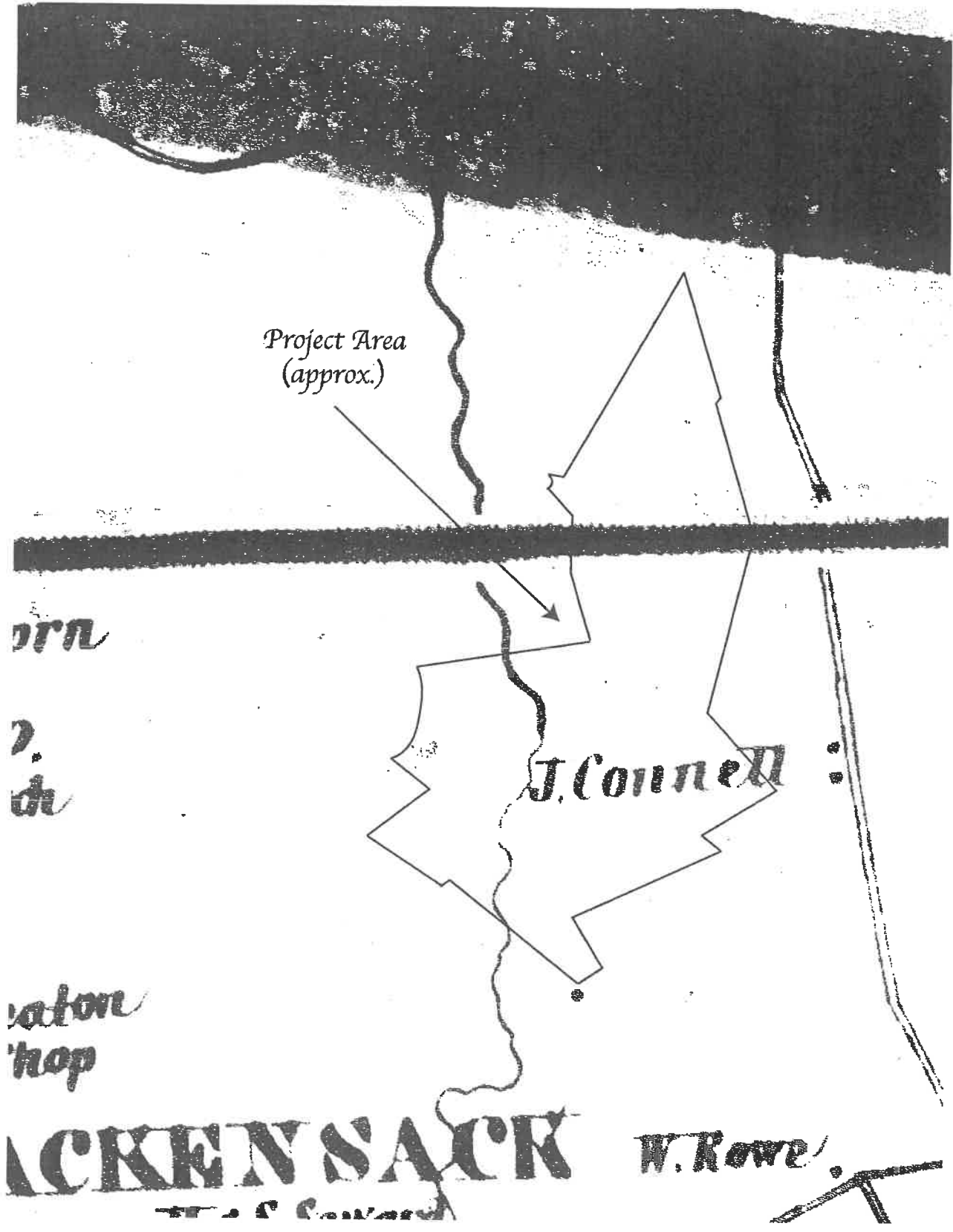
Map 4. Dutchess County Soils (sheets 12, 17)



2000 ft. / 610 m.



Map 5. 1850 Sydney Map



Project Area
(approx.)

J. Connell

ACKENSACK

W. Rowe

2000 ft. / 610 m.



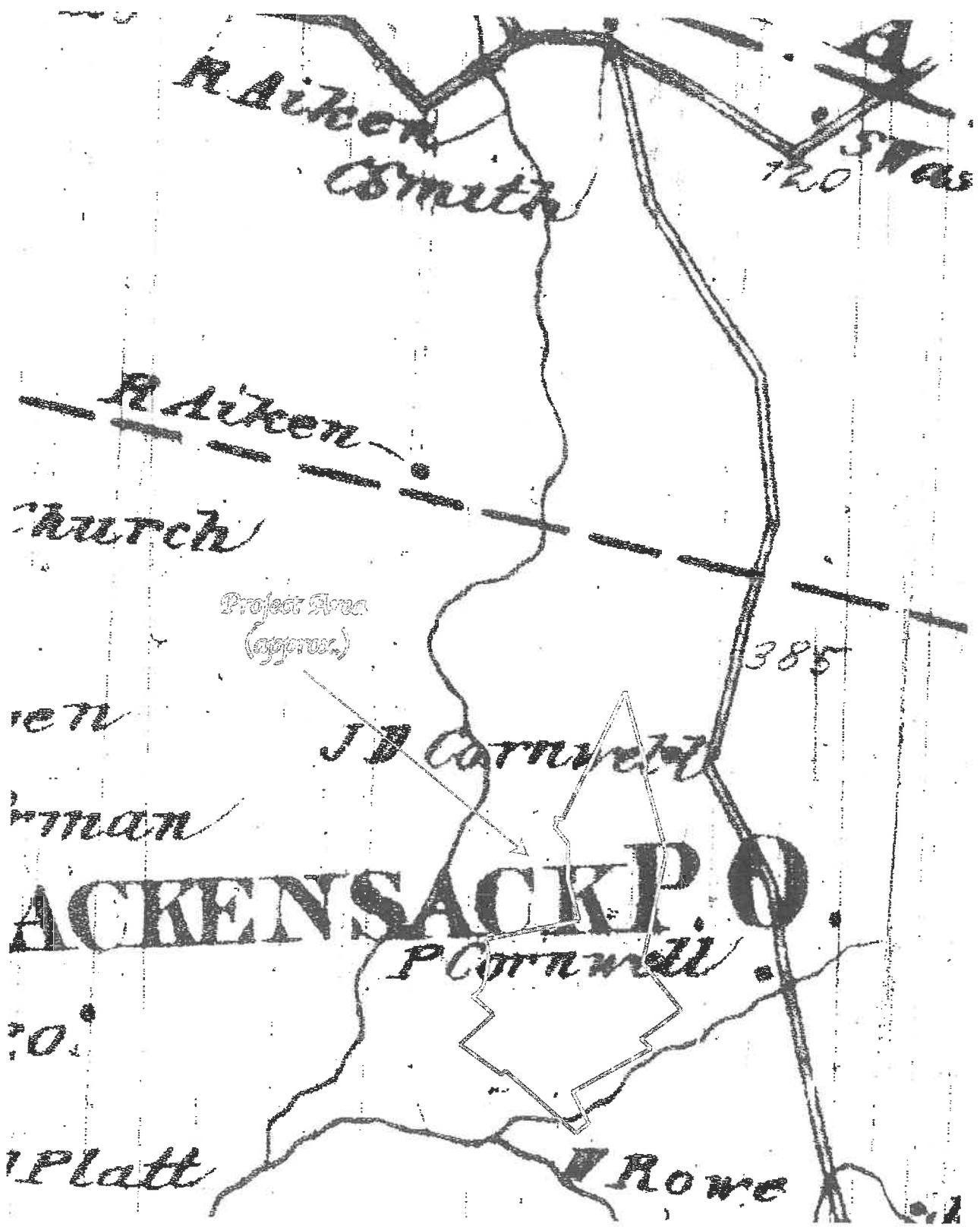
Map 6. 1858 Gillette Map



2000 ft. / 610 m.

1
North

Map 7. 1867 Beers Map



2000 ft. / 610 m.

1
North

Map 8. 1876 Gray & Davis Map

Phase 1B Maps (AS-2), sheets 1 & 2 of 2, dated 10-01-08 have been superseded.

The revised Phase 1B Archeological Maps 3 & 4 (AS-2) are included in the Phase 1B Cultural Resource Investigation Addendum & Phase 2 Site Evaluation of Rail Trail Precontact Locus 2 report, prepared by Joseph E. Diamond, Ph.D., dated 02-22-10.

Please see the latest Maps 3 & 4 (AS-2) dated 03-09-10 in the above 02-22-10 Addendum report.

PHOTOGRAPHS



Photograph 1: Eastern edge of project area along baseline. View south.



Photograph 2. Shovel testing near ST# 96. View west.



Photograph 3: Shovel testing near ST# 261. View east up slight incline.



Photograph 4. Cul-de-sac at end of Airport Drive. View east.

TABLES

NYSOPRHP #	NYSM #	Site Name	Dist. from APE m/ft.	Time Period	Site Type	Ref./Arch
	5985	None	3000 ft/914 m	No info.	No Info.	Old Site File
	6897	None	2500 ft/ 762 m	No info.	No Info.	Old Site File
A027.19.0021		"Indian Site"	1000 ft/305 m	No. Info.	No. Info.	N. Johnson 1979
A027.19.0083		Tangredi Prehistoric Site	5500 ft/ 1676 m	Prehistoric	No. Info.	Brumbach 1981
A027.19.0084		Tangredi Farm Site	5500 ft/ 1676 m	18th-19th cent.	Farm	Brumbach 1981
A027.19.000323		Tri-Muni. Locus 9	5500 ft/ 1676 m	Paleo-Indian	Small camp?	HAA 1990
Structures						
A027-19-0009		"Old Hundred"	c. 2000 ft/610 m	c. 1754	Dutch Colonial	
		Joseph Horton Hse NRL				
A027-19-0010		Seward Place	c. 2000 ft/610 m	c. 1840	Greek Revival	
A027-19-0011		New Hack. Ref. Church	Moved	c. 1834	Greek Revival	

Table 1. Listed sites at NYSM and OPRHP.

APPENDICES

APPENDIX 1

SOIL/MATERIAL DESCRIPTION

MATERIAL/TEXTURE:

sa = sand (y)
si = silt (y)
cl = clay (ey)
lo = loam
hu = humic
chf = charcoal flecks
bed = bedrock
cob = cobbles
sh = shale
ang rk = angular rock
coa = coarse
fi = fine
grv = gravel (y)
rd grv = road gravel
rk = rock (y)
rt = root (s)
gw = graywacke
imp = impasse
lyr = layer
dis = disturbed

COLORS/SHADES:

bl = black
g = gray (ish)
o = olive
b = brown (ish)
r = red (ish)
y = yellow (ish)
gr = green
wh = white
pk = pink (ish)
aq = aqua
l = light
d = dark
p = pale
s = strong
v = very

Shovel #	Depth	Soil Description	Q	Artifacts	Mat	Wt
1	0-13	b si lo w/grv		None		
	13-28	y b si w/grv		None		
2	0-22	b si lo w/grv		None		
	22-37	y b si w/grv		None		
3	0-22	b si lo w/grv		None		
	22-37	y b si w/grv		None		
4	0-25	b si lo w/grv		None		
	25-35	y b si w/grv		None		
5	0-21	b si lo w/grv		None		
	21-33	y b si w/grv		None		
6	0-15	b si lo w/grv		None		
	15-27	y b si w/grv		None		
7	0-29	b si lo w/grv		None		
	29-37	y b si w/grv		None		
8	0-23	b si lo w/grv		None		
	23-36	y b si w/grv		None		
9	0-9	b si lo w/grv		None		
	9-28	y b si w/grv		None		
10	0-14	b si lo w/grv		None		
	14-29	y b si w/grv		None		
11	0-23	b si lo w/grv		None		
	23-38	y b si w/grv		None		
12	0-24	b si lo w/grv		None		
	24-39	y b si w/grv		None		
13	0-25	b si lo w/grv		None		
	25-37	y b si w/grv		None		
14	0-25	b si lo w/grv		None		
	25-33	y b si w/grv		None		
15	0-22	b si lo w/grv		None		
	22-31	y b si w/grv		None		
16	0-23	b si lo w/grv		None		
	23-34	y b si w/grv		None		
17	0-12	b si lo w/grv		None		
	12-27	y b si w/grv		None		
18	0-13	b si lo w/grv		None		
	13-29	y b si w/grv		None		
19	0-21	b si lo w/grv		None		
	21-36	y b si w/grv		None		
20	0-24	b si lo w/grv		None		
	24-39	y b si w/grv		None		
21	0-18	b si lo w/grv		None		
	18-32	y b si w/grv		None		
22	0-23	b si lo w/grv		None		
	23-32	y b si w/grv		None		
23	0-20	b si lo w/grv		None		
	20-32	y b si w/grv		None		
24	0-19	b si lo w/grv		None		
	19-31	y b si w/grv		None		
25	0-18/rock	b si lo w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
26	0-24	b si lo w/grv		None		
	24-35	y b si w/grv		None		
27	0-15	b si lo w/grv		None		
	15-30	y b si w/grv		None		
28	0-15	b si lo w/grv		None		
	15-36	y b si w/grv		None		
29	0-18	b si lo w/grv		None		
	18-30	y b si w/grv		None		
30	0-20	b si lo w/grv		None		
	20-36	y b si w/grv		None		
31	0-25	b si lo w/grv		None		
	25-40	y b si w/grv		None		
32	0-20	b si lo w/grv		None		
	20-36	y b si w/grv		None		
33	0-21	b si lo w/grv		None		
	21-30	y b si w/grv		None		
34	0-17	b si lo w/grv		None		
	17-29	y b si w/grv		None		
35	0-21	b si lo w/grv		None		
	21-33	y b si w/grv		None		
36	0-20	b si lo w/grv		None		
	20-29	y b si w/grv		None		
37	0-26	b si lo w/grv		None		
	26-39	y b si w/grv		None		
38	0-18	b si lo w/grv and cob.		None		
	18-29	y b si w/grv		None		
39	0-18	b si lo w/grv		None		
	18-28	y b si w/grv		None		
40	0-25	b si lo w/grv		None		
	25-37	y b si w/grv		None		
41	0-22	b si lo w/grv		None		
	22-34	y b si w/grv		None		
42	0-21	b si lo w/grv		None		
	21-34	y b si w/grv		None		
43	0-27	b si lo w/grv		None		
	27-38	y b si w/grv		None		
44	0-23	b si lo w/grv		None		
	23-32	y b si w/grv and cob.		None		
45	0-14	b si lo w/grv		None		
	14-29	y b si w/grv and cob.		None		
46	0-17	b si lo w/grv		None		
	17-35	y b si w/grv		None		
47	0-21	b si lo w/grv		None		
	21-36	y b si w/grv		None		
48	0-17	b si lo w/grv		None		
	17-34	y b si w/grv and cob.		None		
49	0-30	b si lo w/grv		None		
	30-45	y b si w/grv		None		
50	0-18	b si lo w/grv		None		
	18-33	y b si w/grv		None		

SHOVEL TEST RECORD

IT#	Depth	Soil Description	Q	Artifacts	Mat	Wt
51	0-23	b si lo w/grv		None		
	23-34	y b si w/grv		None		
52	0-22	b si lo w/grv		None		
	22-31	y b si w/grv		None		
53	0-19	b si lo w/grv		None		
	19-32	y b si w/grv		None		
54	0-18	b si lo w/grv		None		
	18-30	y b si w/grv		None		
55	0-24	b si lo w/grv		None		
	24-32	y b si w/grv		None		
56	0-25	b si lo w/grv		None		
	25-36	y b si w/grv		None		
57	0-15	b si lo w/grv		None		
	15-30	y b si w/grv		None		
58	0-27	b si lo w/grv		None		
	27-42	y b si w/grv		None		
59	0-22	b si lo w/grv		None		
	22-37	y b si w/grv		None		
60	0-23	b si lo w/grv		None		
	23-38	y b si w/grv		None		
61	0-23	b si lo w/grv		None		
	23-38	y b si w/grv		None		
62	0-16	b si lo w/grv		None		
	16-31	y b si w/grv		None		
63	0-26	b si lo w/grv		None		
	26-38	y b si w/grv		None		
64	0-18	b si lo w/grv		None		
	18-28	y b si w/grv		None		
65	0-26/rock	b si lo w/grv		None		
66	0-27	b si lo w/grv		None		
	27-39	y b si w/grv		None		
67	0-26	b si lo w/grv		None		
	26-37	y b si w/grv		None		
68	0-23	b si lo w/grv		None		
	23-34	y b si w/grv		None		
69	0-20	b si lo w/grv		None		
	20-35	y b si w/grv		None		
70	0-25	b si lo w/grv		None		
	25-40	y b si w/grv		None		
71	0-15	b si lo w/grv		None		
	15-31	y b si w/grv		None		
72	0-27	b si lo w/grv		None		
	27-42	y b si w/grv		None		
73	0-19	b si lo w/grv		None		
	19-34	y b si w/grv		None		
74	0-20	b si lo w/grv		None		
	20-37	y b si w/grv		None		
75	0-24	b si lo w/grv		None		
	24-37	y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
76	0-21	b si lo w/grv		None		
	21-31	y b si w/grv		None		
77	0-23	b si lo w/grv		None		
	23-30	y b si w/grv		None		
78	0-19	b si lo w/grv		None		
	19-28	y b si w/grv and cob.		None		
79	0-22	b si lo w/grv		None		
	22-35	y b si w/grv		None		
80	0-20	b si lo w/grv		None		
	20-32	y b si w/grv		None		
81	0-16	b si lo w/grv		None		
	16-31	y b si w/grv		None		
82	0-28	b si lo w/grv		None		
	28-43	y b si w/grv		None		
83	0-24	b si lo w/grv		None		
	24-39	y b si w/grv		None		
84	0-22	b si lo w/grv		None		
	22-37	y b si w/grv		None		
85	0-14	b si lo w/grv		None		
	14-30	y b si w/grv and cob.		None		
86	0-19	b si lo w/grv		None		
	19-34	y b si w/grv		None		
87	0-18	b si lo w/grv		None		
	18-33	y b si w/grv		None		
88	0-25	b si lo w/grv		None		
	25-34	y b si w/grv		None		
89	0-27	b si lo w/grv		None		
	27-37	y b si w/grv		None		
90	0-25	b si lo w/grv		None		
	25-37	y b si w/grv		None		
91	0-27	b si lo w/grv		None		
	27-36	y b si w/grv		None		
92	0-26	b si lo w/grv		None		
	26-35	y b si w/grv		None		
93	0-24	b si lo w/grv		None		
	24-37	y b si w/grv		None		
94	0-21	b si lo w/grv		None		
	21-28	y b si w/grv		None		
95	0-17	b si lo w/grv		None		
	17-31	y b si w/grv		None		
96	0-21	b si lo w/grv		None		
	21-36	y b si w/grv		None		
97	0-22	b si lo w/grv		None		
	22-37	y b si w/grv		None		
98	0-17	b si lo w/grv		None		
	17-32	y b si w/grv		None		
99	0-21	b si lo w/grv		None		
	21-36	y b si w/grv		None		
00	0-20	b si lo w/grv		None		
	20-35	y b si w/grv		None		

SHOVEL TEST RECORD

IT#	Depth	Soil Description	Q	Artifacts	Mat	Wt
101	0-20	b si lo w/grv		None		
	20-35	y b si w/grv		None		
102	0-19	b si lo w/grv		None		
	19-30	y b si w/grv		None		
103	0-19	b si lo w/grv		None		
	19-28	y b si w/grv		None		
104	0-25	b si lo w/grv		None		
	25-38	y b si w/grv		None		
105	0-24	b si lo w/grv		None		
	24-36	y b si w/grv		None		
106	0-23	b si lo w/grv		None		
	23-36	y b si w/grv		None		
107	0-24	b si lo w/grv		None		
	24-37	y b si w/grv		None		
108	0-23	b si lo w/grv		None		
	23-37	y b si w/grv		None		
109	0-23	b si lo w/grv		None		
	23-33	y b si w/grv		None		
110	0-22	b si lo w/grv		None		
	22-31	y b si w/grv		None		
111	0-26	b si lo w/grv		None		
	26-35	y b si w/grv		None		
112	0-15	b si lo w/grv		None		
	15-29	y b si w/grv		None		
113	0-17	b si lo w/grv		None		
	17-36	y b si w/grv		None		
114	0-22	b si lo w/grv		None		
	22-36	y b si w/grv		None		
115	0-21	b si lo w/grv		None		
	21-35	y b si w/grv		None		
116	0-22	b si lo w/grv		None		
	22-36	y b si w/grv		None		
117	0-24	b si lo w/grv		None		
	24-38	y b si w/grv		None		
118	0-22	b si lo w/grv		None		
	22-40	y b si w/grv		None		
119	0-33	b si lo w/grv		None		
	33-48	y b si w/grv		None		
120	0-17	b si lo w/grv		None		
	17-32	y b si w/grv		None		
121	0-19	b si lo w/grv		None		
	19-34	y b si w/grv		None		
122	0-22	b si lo w/grv		None		
	22-31	y b si w/grv		None		
123	0-22	b si lo w/grv		None		
	22-33	y b si w/grv		None		
124	0-22	b si lo w/grv		None		
	22-31	y b si w/grv		None		
25	0-24	b si lo w/grv		None		
	24-32	y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
126	0-23	b si lo w/grv		None		
	23-32	y b si w/grv		None		
127	0-19	b si lo w/grv		None		
	19-30	y b si w/grv		None		
128	0-25	b si lo w/grv and cob.		None		
	25-33	y b si w/grv		None		
129	0-25	b si lo w/grv		None		
	25-36	y b si w/grv		None		
130	0-26	b si lo w/grv		None		
	26-38	y b si w/grv		None		
131	0-29	b si lo w/grv		None		
	29-36	y b si w/grv		None		
132	0-11	b si lo w/grv		None		
	11-26	y b si w/grv		None		
133	0-21	b si lo w/grv		None		
	21-38	y b si w/grv		None		
134	0-20	b si lo w/grv		None		
	20-35	y b si w/grv		None		
135	0-16	b si lo w/grv		None		
	16-31	y b si w/grv		None		
136	0-18	b si lo w/grv		None		
	18-34	y b si w/grv		None		
137	0-30	b si lo w/grv		None		
	30-45	y b si w/grv		None		
138	0-24	b si lo w/grv and cob.		None		
	24-39	y b si w/grv		None		
139	0-18	b si lo w/grv		None		
	18-33	y b si w/grv		None		
140	0-23	b si lo w/grv		None		
	23-38	y b si w/grv		None		
141	0-23	b si lo w/grv		None		
	23-38	y b si w/grv		None		
142	0-17	b si lo w/grv		None		
	17-26	y b si w/grv		None		
143	0-23	b si lo w/grv		None		
	23-33	y b si w/grv		None		
144	0-26	b si lo w/grv		None		
	26-37	y b si w/grv		None		
145	0-21	b si lo w/grv		None		
	21-32	y b si w/grv		None		
146	0-18	b si lo w/grv		None		
	18-29	y b si w/grv		None		
147	0-24	b si lo w/grv		None		
	24-36	y b si w/grv		None		
148	0-27	b si lo w/grv		None		
	27-38	y b si w/grv		None		
149	0-30	b si lo w/grv		None		
	30-40	y b si w/grv		None		
150	0-27	b si lo w/grv		None		
	27-38	y b si w/grv		None		

SHOVEL TEST RECORD

TT#	Depth	Soil Description	Q	Artifacts	Mat	Wt
151	0-24	b si lo w/grv		None		
	24-37	y b si w/grv		None		
152	0-21	b si lo w/grv		None		
	21-33	y b si w/grv		None		
153	0-28	b si lo w/grv		None		
	28-42	y b si w/grv		None		
154	0-25	b si lo w/grv		None		
	25-40	y b si w/grv		None		
155	0-23	b si lo w/grv		None		
	23-38	y b si w/grv		None		
156	0-24	b si lo w/grv		None		
	24-38	y b si w/grv		None		
157	0-20	b si lo w/grv		None		
	20-34	y b si w/grv		None		
158	0-26	b si lo w/grv		None		
	26-42	y b si w/grv		None		
159	0-23	b si lo w/grv		None		
	23-36	y b si w/grv		None		
160	0-17	b si lo w/grv		None		
	17-34	y b si w/grv		None		
161	0-25	b si lo w/grv		None		
	25-38	y b si w/grv		None		
162	0-24	b si lo w/grv		None		
	24-36	y b si w/grv		None		
63	0-20	d b si lo w/grv		None		
	20-36	y b si w/grv		None		
164	0-22	b si lo w/grv		None		
	22-33	y b si w/grv		None		
165	0-27	d b si lo w/grv		None		
	27-38	y b si w/grv		None		
166	0-19/rocks	b si lo w/grv		None		
167	0-19	b si lo w/grv		None		
	19-30	y b si w/grv		None		
168	0-21	d b si lo w/grv		None		
	21-33	y b si w/grv		None		
169	0-23	b si lo w/grv		None		
	23-32	y b si w/grv		None		
170	0-25	d b si lo w/grv		None		
	25-35	y b si w/grv		None		
171	0-21	b si lo w/grv		None		
	21-32	y b si w/grv		None		
172	0-27	d g b si lo w/grv		None		
	27-39	y b si w/grv		None		
173	0-21	d g b si lo w/grv		None		
	21-32	y b si w/grv		None		
174	0-24	b si lo w/grv		None		
	24-34	y b si w/grv		None		
175	0-21	d b si lo w/grv		None		
	21-30	y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
176	0-19	d g b si lo w/grv		None		
	19-31	y b si w/grv and cob.		None		
177	0-20	d b si lo w/grv		None		
	20-35	y b si w/grv		None		
178	0-16	b si lo w/grv		None		
	16-31	y b si w/grv		None		
179	0-17	v. dk b si lo w/grv		None		
	17-33	y b si w/grv		None		
180	0-22	d b si lo w/grv		None		
	22-36	y b si w/grv		None		
181	0-21	b si lo w/grv		None		
	21-34	y b si w/grv and cob.		None		
182	0-21	b si lo w/grv		None		
	21-37	y b si w/grv		None		
183	0-23	d g b si lo w/grv		None		
	23-40	l y b si w/grv		None		
184	0-39	d g b si lo w/grv		None		
	39-54	l y b si w/grv		None		
185	0-21	d g b si lo w/grv		None		
	21-33	l y b si w/grv		None		
186	0-25	d g b si lo w/grv		None		
	25-40	l y b si w/grv		None		
187	0-18	d g b si lo w/grv		None		
	18-35	l y b si w/grv		None		
188	0-25	d g b si lo w/grv		None		
	25-45	l y b si w/grv		None		
189	0-20	d g b si lo w/grv		None		
	20-40	l y b si w/grv		None		
190	0-22	d g b si lo w/grv		None		
	22-42	l y b si w/grv		None		
191	0-14	d g b si lo w/grv		None		
	14-26	l y b si w/grv		None		
192	0-17	d g b si lo w/grv		None		
	17-29	l y b si w/grv		None		
193	0-15	d g b si lo w/grv		None		
	15-27	l y b si w/grv		None		
194	0-34	d g b si lo w/grv		None		
	34-42	l y b si w/grv		None		
195	0-25	d g b si lo w/grv		None		
	25-37	l y b si w/grv		None		
196	0-27	d g b si lo w/grv		None		
	27-34	l y b si w/grv		None		
197	0-21	d g b si lo w/grv		None		
	21-31	l y b si w/grv		None		
198	0-22	d g b si lo w/grv		None		
	22-35	l y b si w/grv		None		
199	0-22/rock	d g b si lo w/grv		None		
200	0-18	d g b si lo w/grv and cob.		None		
	18-31	l y b si w/grv		None		

SHOVEL TEST RECORD

T#	Depth	Soil Description	Q	Artifacts	Mat	Wt
201	0-19	d g b si lo w/grv and cob.		None		
	19-33	l y b si w/grv		None		
202	0-19	d g b si lo w/grv		None		
	19-32	l y b si w/grv		None		
203	0-30	d g b si lo w/grv		None		
	30-42	l y b si w/grv		None		
204	0-22	d g b si lo w/grv		None		
	22-29	l y b si w/grv		None		
205	0-21	d g b si lo w/grv		None		
	21-31	l y b si w/grv		None		
206	0-20/rock	d g b si lo w/grv		None		
207	0-23	d g b si lo w/grv		None		
	23-38	l y b si w/grv		None		
208	0-18	d g b si lo w/grv		None		
	18-33	l y b si w/grv		None		
209	0-19	d g b si lo w/grv		None		
	19-33	l y b si w/grv		None		
210	0-34	v d g b si lo w/grv		None		
	34-49	l y b si w/grv		None		
211	0-25	d g b si lo w/grv		None		
	25-40	l y b si w/grv		None		
212	0-25	dk d g b si lo w/grv		None		
	25-40	l y b si w/grv		None		
213	0-20	d g b si lo w/grv		None		
	20-40	l y b si w/grv		None		
214	0-24	d g b si lo w/grv		None		
	24-39	l y b si w/grv		None		
215	0-22	d g b si lo w/grv		None		
	22-33	l y b si w/grv		None		
216	0-41	d g b si lo w/grv		None		
	41-56	l y b si w/grv		None		
217	0-30	d g b si lo w/grv		None		
	30-45	l y b si w/grv		None		
218	0-48	g b si lo w/grv		None		
	48-63	l y b si w/grv		None		
219	0-18	d g b si lo w/grv		None		
	18-33	l y b si w/grv		None		
220	0-21	g b si lo w/grv		None		
	21-40	l y b si w/grv		None		
221	0-12	d g b si lo w/grv		None		
	12-27	l y b si w/grv		None		
222	0-25	d g b si lo w/grv		None		
	25-35	l y b si w/grv		None		
223	0-24	d g b si lo w/grv		None		
	24-36	l y b si w/grv		None		
224	0-27	d g b si lo w/grv	1	projectile pt. tip	mottled gr Norm. chert	2.5
	27-39	l y b si w/grv		None		
?24A	0-24	d g b si lo w/grv		None		
	24-36	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
224B	0-27	d g b si lo w/grv		None		
	27-39	l y b si w/grv		None		
224C	0-25	d g b si lo w/grv		None		
	25-39	l y b si w/grv		None		
224D	0-22	d g b si lo w/grv		None		
	22-37	l y b si w/grv		None		
224E	0-25	d g b si lo w/grv		None		
	25-37	l y b si w/grv		None		
224F	0-25	g b si lo w/grv		None		
	25-38	l y b si w/grv		None		
224G	0-22	d g b si lo w/grv		None		
	22-37	l y b si w/grv		None		
224H	0-21	d g b si lo w/grv		None		
	21-36	l y b si w/grv		None		
225	0-26	d g b si lo w/grv		None		
	26-38	l y b si w/grv		None		
226	0-22	d g b si lo w/grv		None		
	22-31	l y b si w/grv		None		
227	0-28	d g b si lo w/grv		None		
	28-35	l y b si w/grv		None		
228	0-25	d g b si lo w/grv		None		
	25-32	l y b si w/grv		None		
229	0-24	g b si lo w/grv		None		
	24-37	l y b si w/grv		None		
230	0-27	d g b si lo w/grv		None		
	27-40	l y b si w/grv		None		
231	0-26	d g b si lo w/grv		None		
	26-36	l y b si w/grv		None		
232	0-21	d g b si lo w/grv		None		
	21-31	l y b si w/grv		None		
233	0-29	d g b si lo w/grv		None		
	29-37	l y b si w/grv		None		
234	0-26	d g b si lo w/grv		None		
	26-38	l y b si w/grv		None		
235	0-21	g b si lo w/grv		None		
	21-30	l y b si w/grv		None		
236	0-13	d g b si lo w/grv		None		
	13-25	l y b si w/grv		None		
237	0-21	d g b si lo w/grv		None		
	21-36	l y b si w/grv		None		
238	0-20	d g b si lo w/grv		None		
	20-35	l y b si w/grv		None		
239	0-20	d g b si lo w/grv		None		
	20-40	l y b si w/grv		None		
240	0-22	v d g b si lo w/grv		None		
	22-37	l y b si w/grv		None		
241	0-23	d g b si lo w/grv		None		
	23-38	l y b si w/grv		None		
242	0-20	d g b si lo w/grv		None		
	20-35	l y b si w/grv		None		

T#	Depth	Soil Description	Q	Artifacts	Mat	Wt
243	0-20	d b si lo w/grv		None		
	20-35	l y b si w/grv		None		
244	0-20	d g b si lo w/grv		None		
	20-36	l y b si w/grv		None		
245	0-24	d g b si lo w/grv		None		
	24-39	l y b si w/grv		None		
246	0-24	d g b si lo w/grv		None		
	24-44	l y b si w/grv		None		
247	0-24	d g b si lo w/grv		None		
	24-39	l y b si w/grv		None		
248	0-23	d g b si lo w/grv		None		
	23-38	l y b si w/grv		None		
249	0-20	d g b si lo w/grv		None		
	20-35	l y b si w/grv		None		
250	0-19	d g b si lo w/grv		None		
	19-34	l y b si w/grv		None		
251	0-13	d g b si lo w/grv		None		
	13-28	l y b si w/grv		None		
252	0-22	d b si lo w/grv		None		
	22-30	l y b si w/grv		None		
253	0-22	d g b si lo w/grv		None		
	22-34	l y b si w/grv		None		
254	0-24	d g b si lo w/grv		None		
	24-36	l y b si w/grv		None		
255	0-25	d g b si lo w/grv		None		
	25-35	l y b si w/grv		None		
256	0-24	d g b si lo w/grv		None		
	24-36	l y b si w/grv		None		
257	0-23	d g b si lo w/grv		None		
	23-35	l y b si w/grv		None		
258	0-25	d g b si lo w/grv		None		
	25-34	l y b si w/grv		None		
259	0-25	d g b si lo w/grv		None		
	25-36	l y b si w/grv		None		
260	0-20	d g b si lo w/grv		None		
	20-33	l y b si w/grv		None		
261	0-21	d g b si lo w/grv		None		
	21-32	l y b si w/grv		None		
262	0-26	d g b si lo w/grv		None		
	26-35	l y b si w/grv		None		
263	0-24	d g b si lo w/grv		None		
	24-36	l y b si w/grv and cob.		None		
264	0-13	d g b si lo w/grv		None		
	13-26	l y b si w/grv		None		
265	0-12	d g b si lo w/grv		None		
	12-24	l y b si w/grv		None		
266	0-11	d g b si lo w/grv		None		
	11-21	l y b si w/grv		None		
67	0-20	d g b si lo w/grv		None		
	20-34	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
268	0-22	d g b si lo w/grv		None		
	22-37	l y b si w/grv		None		
269	0-16	d g b si lo w/grv		None		
	16-34	l y b si w/grv		None		
270	0-15	d g b si lo w/grv		None		
	15-30	l y b si w/grv		None		
271	0-27	v d g b si lo w/grv		None		
	27-42	l y b si w/grv		None		
272	0-24	d g b si lo w/grv		None		
	24-39	l y b si w/grv		None		
273	0-25	d g b si lo w/grv		None		
	25-40	l y b si w/grv		None		
274	0-25	d g b si lo w/grv		None		
	25-40	l y b si w/grv		None		
275	0-16	d g b si lo w/grv		None		
	16-32	l y b si w/grv		None		
276	0-28	d g b si lo w/grv		None		
	28-43	l y b si w/grv		None		
277	0-18	d g b si lo w/grv		None		
	18-33	l y b si w/grv		None		
278	0-21	d g b si lo w/grv and cob.		None		
	21-36	l y b si w/grv		None		
279	0-22	d g b si lo w/grv		None		
	22-38	l y b si w/grv		None		
280	0-15	d g b si lo w/grv		None		
	15-30	l y b si w/grv		None		
281	0-21	d g b si lo w/grv		None		
	21-36	l y b si w/grv		None		
282	0-18	d g b si lo w/grv		None		
	18-29	l y b si w/grv		None		
283	0-21	d g b si lo w/grv		None		
	21-33	l y b si w/grv		None		
284	0-20	v d g b si lo w/grv		None		
	20-30	l y b si w/grv		None		
285	0-19	d g b si lo w/grv		None		
	19-30	l y b si w/grv		None		
286	0-21	d g b si lo w/grv		None		
	21-32	l y b si w/grv		None		
287	0-20	d g b si lo w/grv		None		
	20-31	l y b si w/grv		None		
288	0-25	o b si lo w/grv		None		
	25-37	l y b si w/grv		None		
289	0-27	o b si lo w/grv		None		
	27-38	l y b si w/grv		None		
290	0-19	o b si lo w/grv		None		
	19-31	l y b si w/grv		None		
291	0-23	o b si lo w/grv		None		
	23-35	l y b si w/grv		None		
292	0-17	d g b si lo w/grv		None		
	17-30	l y b si w/grv		None		

SHOVEL TEST RECORD

IT#	Depth	Soil Description	Q	Artifacts	Mat	Wt
293	0-15	o b si lo w/grv		None		
	15-24	l y b si w/grv		None		
294	0-25	o b si lo w/grv		None		
	25-36	l y b si w/grv		None		
295	0-26	o b si lo w/grv		None		
	26-35	l y b si w/grv		None		
296	0-22	o b si lo w/grv		None		
	22-32	l y b si w/grv		None		
297	0-24	o b si lo w/grv		None		
	24-40	l y b si w/grv		None		
298	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
299	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
300	0-22	o b si lo w/grv		None		
	22-37	l y b si w/grv		None		
301	0-17	o b si lo w/grv		None		
	17-33	l y b si w/grv		None		
302	0-23	o b si lo w/grv		None		
	23-39	l y b si w/grv		None		
303	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
304	0-26	o b si lo w/grv		None		
	26-31	l y b si w/grv		None		
305	0-25	o b si lo w/grv		None		
	25-40	l y b si w/grv		None		
306	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
307	0-14	o b si lo w/grv		None		
	14-29	l y b si w/grv		None		
308	0-12	o b si lo w/grv		None		
	12-27	l y b si w/grv		None		
309	0-15	d g b si lo w/grv		None		
	15-30	l y b si w/grv		None		
310	0-22	o b si lo w/grv		None		
	22-37	l y b si w/grv		None		
311	0-27	o b si lo w/grv		None		
	27-40	l y b si w/grv		None		
312	0-24	o b si lo w/grv		None		
	24-37	l y b si w/grv		None		
313	0-22	o b si lo w/grv		None		
	22-35	l y b si w/grv		None		
314	0-22	o b si lo w/grv		None		
	22-33	l y b si w/grv		None		
315	0-23	o b si lo w/grv		None		
	23-35	l y b si w/grv		None		
316	0-20	o b si lo w/grv		None		
	20-33	l y b si w/grv		None		
17	0-24	o b si lo w/grv		None		
	24-32	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
318	0-23	o b si lo w/grv		None		
	23-34	l y b si w/grv		None		
319	0-23	o b si lo w/grv		None		
	23-35	l y b si w/grv		None		
320	0-26	o b si lo w/grv		None		
	26-38	l y b si w/grv		None		
321	0-24	o b si lo w/grv		None		
	24-34	l y b si w/grv		None		
322	0-19	o b si lo w/grv		None		
	19-32	l y b si w/grv		None		
323	0-24	o b si lo w/grv		None		
	24-36	l y b si w/grv		None		
324	0-20	o b si lo w/grv		None		
	20-31	l y b si w/grv		None		
325	0-32	o b si lo w/grv		None		
	32-47	l y b si w/grv		None		
326	0-23	o b si lo w/grv		None		
	23-39	l y b si w/grv		None		
327	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
328	0-30	o b si lo w/grv		None		
	30-45	l y b si w/grv		None		
329	0-22	o b si lo w/grv		None		
	22-40	l y b si w/grv		None		
330	0-22	o b si lo w/grv		None		
	22-40	l y b si w/grv		None		
331	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
332	0-21	o b si lo w/grv		None		
	21-37	l y b si w/grv		None		
333	0-24	o b si lo w/grv		None		
	24-39	l y b si w/grv		None		
334	0-16	o b si lo w/grv		None		
	16-36	l y b si w/grv		None		
335	0-30	d g b si lo w/grv		None		
	30-45	l y b si w/grv		None		
336	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
337	0-45	o b si lo w/grv		None		
	45-56	l y b si w/grv		None		
338	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
339	0-17	o b si lo w/grv		None		
	17-29	l y b si w/grv		None		
340	0-23	o b si lo w/grv		None		
	23-35	l y b si w/grv		None		
341	0-20	o b si lo w/grv		None		
	20-32	l y b si w/grv		None		
342	0-18	o b si lo w/grv		None		
	18-30	l y b si w/grv		None		

SHOVEL TEST RECORD

T#	Depth	Soil Description	Q	Artifacts	Mat	Wt
343	0-26	o b si lo w/grv		None		
	26-38	l y b si w/grv		None		
344	0-28	o b si lo w/grv		None		
	28-36	l y b si w/grv		None		
345	0-25	o b si lo w/grv		None		
	25-36	l y b si w/grv		None		
346	0-21	o b si lo w/grv		None		
	21-33	l y b si w/grv		None		
347	0-22	o b si lo w/grv		None		
	22-33	l y b si w/grv		None		
348	0-25	o b si lo w/grv		None		
	25-37	l y b si w/grv		None		
349	0-28	o b si lo w/grv		None		
	28-39	l y b si w/grv		None		
350	0-23	o b si lo w/grv		None		
	23-36	l y b si w/grv		None		
351	0-26	o b si lo w/grv		None		
	26-41	l y b si w/grv		None		
352	0-20	o b si lo w/grv		None		
	20-41	l y b si w/grv		None		
353	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
354	0-35	o b si lo w/grv		None		
	35-50	l y b si w/grv		None		
355	0-31	o b si lo w/grv		None		
	31-46	l y b si w/grv		None		
356	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
357	0-25	o b si lo w/grv		None		
	25-40	l y b si w/grv		None		
358	0-15	o b si lo w/grv		None		
	15-30	l y b si w/grv		None		
359	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
360	0-23	d g b si lo w/grv		None		
	23-40	l y b si w/grv		None		
361	0-23	o b si lo w/grv		None		
	23-41	l y b si w/grv		None		
362	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
363	0-19	d g b si lo w/grv		None		
	19-35	l y b si w/grv		None		
364	0-18	o b si lo w/grv		None		
	18-29	l y b si w/grv		None		
365	0-22	d g b si lo w/grv		None		
	22-31	l y b si w/grv		None		
366	0-26	o b si lo w/grv		None		
	26-38	l y b si w/grv		None		
67	0-26	o b si lo w/grv		None		
	26-40	l y b si w/grv		None		

SHOVEL TEST RECORD

T#	Depth	Soil Description	Q	Artifacts	Mat	Wt
368	0-22	d b si lo w/grv		None		
	22-35	l y b si w/grv		None		
369	0-22	o b si lo w/grv		None		
	22-33	l y b si w/grv		None		
370	0-27/rocks	o b si lo w/grv		None		
371	0-24	o b si lo w/grv		None		
	24-34	l y b si w/grv		None		
372	0-23	o b si lo w/grv		None		
	23-35	l y b si w/grv		None		
373	0-23	o b si lo w/grv		None		
	23-34	l y b si w/grv		None		
374	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
375	0-17	o b si lo w/grv		None		
	17-32	l y b si w/grv		None		
376	0-26	d g b si lo w/grv		None		
	26-41	l y b si w/grv		None		
377	0-25	o b si lo w/grv		None		
	25-40	l y b si w/grv		None		
378	0-19	o b si lo w/grv		None		
	19-33	l y b si w/grv		None		
379	0-30	o b si lo w/grv		None		
	30-45	l y b si w/grv		None		
380	0-28/rock	o b si lo w/grv		None		
381	0-18	o b si lo w/grv		None		
	18-33	l y b si w/grv		None		
382	0-23	o b si lo w/grv		None		
	23-40	l y b si w/grv		None		
383	0-22	o b si lo w/grv		None		
	22-38	l y b si w/grv		None		
384	0-21	o b si lo w/grv		None		
	21-41	l y b si w/grv		None		
385	0-15	o b si lo w/grv		None		
	15-25	l y b si w/grv		None		
386	0-27	o b si lo w/grv		None		
	27-39	l y b si w/grv		None		
387	0-25	o b si lo w/grv		None		
	25-35	l y b si w/grv		None		
388	0-27	o b si lo w/grv		None		
	27-39	l y b si w/grv		None		
389	0-22	o b si lo w/grv		None		
	22-34	l y b si w/grv		None		
390	0-26	o b si lo w/grv		None		
	26-35	l y b si w/grv		None		
391	0-22	o b si lo w/grv		None		
	22-35	l y b si w/grv		None		
392	0-18	o b si lo w/grv		None		
	18-30	l y b si w/grv		None		
393	0-22	o b si lo w/grv		None		
	22-35	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
394	0-23	o b si lo w/grv		None		
	23-35	l y b si w/grv		None		
395	0-23	o b si lo w/grv		None		
	23-36	l y b si w/grv		None		
396	0-22/rock	o b si lo w/grv		None		
397	0-20	o b si lo w/grv		None		
	20-31	l y b si w/grv		None		
398	0-17	o b si lo w/grv		None		
	17-31	l y b si w/grv		None		
399	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
400	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
401	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
402	0-22	o b si lo w/grv		None		
	22-37	l y b si w/grv		None		
403	0-25	o b si lo w/grv		None		
	25-40	l y b si w/grv		None		
404	0-23	o b si lo w/grv		None		
	23-40	l y b si w/grv		None		
405	0-40	o b si lo w/grv		None		
	40-50	l y b si w/grv		None		
406	0-16	o b si lo w/grv		None		
	16-30	l y b si w/grv		None		
407	0-28/rocks	o b si lo w/grv		None		
408	0-21	o b si lo w/grv		None		
	21-30	l y b si w/grv		None		
409	0-21	o b si lo w/grv		None		
	21-34	l y b si w/grv		None		
410	0-20	o b si lo w/grv		None		
	20-32	l y b si w/grv		None		
411	0-25	o b si lo w/grv		None		
	25-39	l y b si w/grv		None		
412	0-25	o b si lo w/grv		None		
	25-36	l y b si w/grv		None		
413	0-28	o b si lo w/grv		None		
	28-37	l y b si w/grv		None		
414	0-26	o b si lo w/grv		None		
	26-38	l y b si w/grv		None		
415	0-24	o b si lo w/grv		None		
	24-34	l y b si w/grv		None		
416	0-12	d g b si lo w/grv		None		
	12-22	l y b si w/grv		None		
417	0-12	o b si lo w/grv		None		
	12-25	l y b si w/grv		None		
418	0-26	o b si lo w/grv		None		
	26-41	l y b si w/grv		None		
19	0-18	o b si lo w/grv		None		
	18-33	l y b si w/grv and cob.		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
420	0-16	o b si lo w/grv		None		
	16-30	l y b si w/grv		None		
421	0-30	o b si lo w/grv		None		
	30-45	l y b si w/grv		None		
422	0-40	o b si lo w/grv		None		
	40-53	l y b si w/grv		None		
423	0-18	o b si lo w/grv		None		
	18-33	l y b si w/grv		None		
424	0-40	o b si lo w/grv		None		
	40-50	l y b si w/grv		None		
425	0-14	o b si lo w/grv		None		
	14-30	l y b si w/grv		None		
426	0-15	o b si lo w/grv		None		
	15-27	l y b si w/grv		None		
427	0-26	o b si lo w/grv		None		
	26-38	l y b si w/grv		None		
428	0-24	o b si lo w/grv		None		
	24-35	l y b si w/grv		None		
429	0-21	o b si lo w/grv		None		
	21-31	l y b si w/grv		None		
430	0-22	o b si lo w/grv		None		
	22-31	l y b si w/grv		None		
431	0-22	o b si lo w/grv		None		
	22-34	l y b si w/grv		None		
432	0-28	o b si lo w/grv		None		
	28-37	l y b si w/grv		None		
433	0-22	o b si lo w/grv		None		
	22-33	l y b si w/grv		None		
434	0-18	o b si lo w/grv		None		
	18-29	l y b si w/grv		None		
435	0-20/rock	o b si lo w/grv		None		
436	0-24	o b si lo w/grv		None		
	24-35	l y b si w/grv		None		
437	0-27	o b si lo w/grv		None		
	27-42	l y b si w/grv		None		
438	0-22	o b si lo w/grv		None		
	22-37	l y b si w/grv		None		
439	0-16	o b si lo w/grv		None		
	16-31	l y b si w/grv		None		
440	0-20	d g b si lo w/grv		None		
	20-36	l y b si w/grv and cob.		None		
441	0-16	o b si lo w/grv		None		
	16-30	l y b si w/grv		None		
442	0-21	o b si lo w/grv		None		
	21-35	l y b si w/grv		None		
443	0-28	o b si lo w/grv		None		
	28-43	l y b si w/grv		None		
444	0-25	o b si lo w/grv		None		
	25-39	l y b si w/grv		None		

SHOVEL TEST RECORD

IT#	Depth	Soil Description	Q	Artifacts	Mat	Wt
445	0-15	o b si lo w/grv		None		
	15-32	l y b si w/grv		None		
446	0-21	o b si lo w/grv		None		
	21-34	l y b si w/grv		None		
447	0-24	o b si lo w/grv		None		
	24-36	l y b si w/grv		None		
448	0-19	o b si lo w/grv		None		
	19-30	l y b si w/grv		None		
449	0-19	o b si lo w/grv		None		
	19-32	l y b si w/grv		None		
450	0-25	o b si lo w/grv		None		
	25-36	l y b si w/grv		None		
451	0-22	o b si lo w/grv		None		
	22-33	l y b si w/grv		None		
452	0-12	o b si lo w/grv		None		
	12-25	l y b si w/grv		None		
453	0-21	o b si lo w/grv		None		
	21-32	l y b si w/grv		None		
454	0-21	o b si lo w/grv		None		
	21-33	l y b si w/grv		None		
455	0-17	o b si lo w/grv		None		
	17-32	l y b si w/grv		None		
456	0-16	o b si lo w/grv		None		
	16-30	l y b si w/grv		None		
457	0-17	o b si lo w/grv		None		
	17-32	l y b si w/grv		None		
458	0-23	o b si lo w/grv		None		
	23-35	l y b si w/grv		None		
459	0-15	o b si lo w/grv		None		
	15-28	l y b si w/grv		None		
460	0-19	o b si lo w/grv		None		
	19-34	l y b si w/grv		None		
461	0-21	o b si lo w/grv		None		
	21-35	l y b si w/grv		None		
462	0-19	d g b si lo w/grv		None		
	19-35	l y b si w/grv		None		
463	0-20	o b si lo w/grv		None		
	20-34	l y b si w/grv		None		
464	0-27	d b si lo w/grv		None		
	27-35	l y b si w/grv		None		
465	0-26	o b si lo w/grv		None		
	26-36	l y b si w/grv		None		
466	0-21	o b si lo w/grv		None		
	21-33	l y b si w/grv		None		
467	0-22	o b si lo w/grv		None		
	22-35	l y b si w/grv		None		
468	0-24	o b si lo w/grv		None		
	24-36	l y b si w/grv		None		
69	0-24	d b si lo w/grv		None		
	24-34	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
470	0-23	o b si lo w/grv		None		
	23-36	l y b si w/grv		None		
471	0-21	o b si lo w/grv		None		
	21-35	l y b si w/grv		None		
472	0-30	o b si lo w/grv		None		
	30-45	l y b si w/grv		None		
473	0-23	o b si lo w/grv		None		
	23-43	l y b si w/grv		None		
474	0-17	o b si lo w/grv		None		
	17-35	l y b si w/grv		None		
475	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
476	0-20	o b si lo w/grv		None		
	20-34	l y b si w/grv		None		
477	0-17	o b si lo w/grv		None		
	17-32	l y b si w/grv		None		
478	0-21	o b si lo w/grv		None		
	21-36	l y b si w/grv		None		
479	0-17	o b si lo w/grv		None		
	17-33	l y b si w/grv		None		
480	0-17	o b si lo w/grv		None		
	17-34	l y b si w/grv		None		
481	0-24	o b si lo w/grv		None		
	24-35	l y b si w/grv		None		
482	0-26	o b si lo w/grv		None		
	26-36	l y b si w/grv		None		
483	0-20	o b si lo w/grv		None		
	20-31	l y b si w/grv		None		
484	0-26	o b si lo w/grv		None		
	26-36	l y b si w/grv		None		
485	0-32	o b si lo w/grv		None		
	32-44	l y b si w/grv		None		
486	0-25	o b si lo w/grv		None		
	25-38	l y b si w/grv		None		
487	0-20	o b si lo w/grv		None		
	20-32	l y b si w/grv		None		
488	0-16	o b si lo w/grv		None		
	16-28	l y b si w/grv		None		
489	0-20	o b si lo w/grv		None		
	20-39	l y b si w/grv		None		
490	0-16	o b si lo w/grv		None		
	16-31	l y b si w/grv		None		
491	0-28	o b si lo w/grv		None		
	28-43	l y b si w/grv		None		
492	0-26	o b si lo w/grv		None		
	26-46	l y b si w/grv		None		
493	0-22	o b si lo w/grv		None		
	22-41	l y b si w/grv		None		
494	0-17	o b si lo w/grv		None		
	17-31	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
495	0-10	o b si lo w/grv		None		
	10-25	l y b si w/grv		None		
496	0-16	o b si lo w/grv		None		
	16-26	l y b si w/grv		None		
497	0-21	o b si lo w/grv		None		
	21-32	l y b si w/grv		None		
498	0-22/rock	o b si lo w/grv		None		
499	0-22	o b si lo w/grv		None		
	22-32	l y b si w/grv		None		
500	0-19	o b si lo w/grv		None		
	19-32	l y b si w/grv		None		
501	0-11	o b si lo w/grv		None		
	11-26	l y b si w/grv		None		
502	0-22/no topsoil	o b si lo w/grv		None		
503	0-20/rock	o b si lo w/grv		None		
504	0-22	o b si lo w/grv		None		
	22-37	l y b si w/grv		None		
505	0-30/rock	o b si lo w/grv		None		
506	0-20	o b si lo w/grv		None		
	20-36	l y b si w/grv		None		
507	0-32/rock	o b si lo w/grv		None		
508	0-5	o b si lo w/grv		None		
	5-26	l y b si w/grv		None		
509	0-12	o b si lo w/grv		None		
	12-30	l y b si w/grv		None		
510	0-31	d g b si lo w/grv		None		
	31-43	l y b si w/grv		None		
511	0-25	o b si lo w/grv		None		
	25-38	l y b si w/grv		None		
512	0-23	o b si lo w/grv		None		
	23-34	l y b si w/grv		None		
513	0-25	o b si lo w/grv		None		
	25-36	l y b si w/grv		None		
514	0-24	o b si lo w/grv		None		
	24-36	l y b si w/grv		None		
515	0-28	o b si lo w/grv		None		
	28-40	l y b si w/grv		None		
516	0-24	o b si lo w/grv		None		
	24-36	l y b si w/grv		None		
517	0-14	o b si lo w/grv		None		
	14-26	l y b si w/grv		None		
518	0-24	o b si lo w/grv		None		
	24-38	l y b si w/grv		None		
519	0-20	o b si lo w/grv		None		
	20-34	l y b si w/grv		None		
520	0-23	o b si lo w/grv		None		
	23-33	l y b si w/grv		None		
521	0-20	o b si lo w/grv		None		
	20-33	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
522	0-19	o b si lo w/grv		None		
	19-32	l y b si w/grv		None		
523	0-34	o b si lo w/grv		None		
	34-44	l y b si w/grv		None		
524	0-11	o b si lo w/grv		None		
	11-30	l y b si w/grv		None		
525	0-15	o b si lo w/grv		None		
	15-31	l y b si w/grv		None		
526	0-21	o b si lo w/grv		None		
	21-38	l y b si w/grv		None		
527	0-26	o b si lo w/grv		None		
	26-45	l y b si w/grv		None		
528	0-26	d g b si lo w/grv		None		
	26-46	l y b si w/grv		None		
529	0-23	o b si lo w/grv		None		
	23-42	l y b si w/grv		None		
530	0-28	o b si lo w/grv		None		
	28-48	l y b si w/grv and cob.		None		
531	0-24	o b si lo w/grv		None		
	24-44	l y b si w/grv		None		
532	0-24	o b si lo w/grv		None		
	24-45	l y b si w/grv		None		
533	0-18	o b si lo w/grv		None		
	18-37	l y b si w/grv		None		
534	0-17	o b si lo w/grv		None		
	17-37	l y b si w/grv		None		
535	0-20	o b si lo w/grv		None		
	20-41	l y b si w/grv		None		
536	0-17	o b si lo w/grv		None		
	17-34	l y b si w/grv		None		
537	0-24	o b si lo w/grv		None		
	24-37	l y b si w/grv		None		
538	0-17	o b si lo w/grv		None		
	17-32	l y b si w/grv		None		
539	0-28	o b si lo w/grv		None		
	28-42	l y b si w/grv		None		
540	0-16	o b si lo w/grv		None		
	16-31	l y b si w/grv		None		
541	0-30	o b si lo w/grv		None		
	30-43	l y b si w/grv		None		
542	0-27	o b si lo w/grv		None		
	27-39	l y b si w/grv		None		
543	0-10	o b si lo w/grv		None		
	10-26	l y b si w/grv		None		
544	0-20	o b si lo w/grv		None		
	20-34	l y b si w/grv		None		
545	0-13	o b si lo w/grv		None		
	13-26	l y b si w/grv		None		
546	0-17	o b si lo w/grv		None		
	17-33	l y b si w/grv		None		

SHOVEL TEST RECORD

T#	Depth	Soil Description	Q	Artifacts	Mat	Wt
547	0-18	o b si lo w/grv		None		
	18-34	l y b si w/grv		None		
548	0-33	o b si lo w/grv		None		
	33-46	l y b si w/grv		None		
549	0-16	o b si lo w/grv		None		
	16-31	l y b si w/grv		None		
550	0-30	o b si lo w/grv		None		
	30-45	l y b si w/grv		None		
551	0-22	o b si lo w/grv		None		
	22-37	l y b si w/grv		None		
552	0-24	o b si lo w/grv		None		
	24-39	l y b si w/grv		None		
553	0-28/rock	o b si lo w/grv		None		
554	0-17	o b si lo w/grv		None		
	17-32	l y b si w/grv		None		
555	0-23	o b si lo w/grv		None		
	23-36	l y b si w/grv		None		
556	0-16	o b si lo w/grv		None		
	16-30	l y b si w/grv		None		
557	0-17	o b si lo w/grv		None		
	17-36	l y b si w/grv		None		
558	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		
559	0-21	o b si lo w/grv		None		
	21-42	l y b si w/grv		None		
560	0-25	o b si lo w/grv		None		
	25-45	l y b si w/grv		None		
561	0-24	o b si lo w/grv		None		
	24-45	l y b si w/grv		None		
562	0-21	o b si lo w/grv		None		
	21-40	l y b si w/grv		None		
563	0-26	o b si lo w/grv		None		
	26-46	l y b si w/grv		None		
564	0-21	o b si lo w/grv		None		
	21-40	l y b si w/grv		None		
565	0-34	o b si lo w/grv		None		
	34-50	l y b si w/grv		None		
566	0-17	o b si lo w/grv		None		
	17-37	l y b si w/grv		None		
567	0-21	o b si lo w/grv		None		
	21-41	l y b si w/grv		None		
568	0-23/bedrock	o b si lo w/grv		None		
569	0-15	o b si lo w/grv		None		
	15-30	l y b si w/grv		None		
570	0-20	o b si lo w/grv		None		
	20-34	l y b si w/grv		None		
571	0-18	o b si lo w/grv		None		
	18-34	l y b si w/grv		None		
72	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
573	0-16	o b si lo w/grv		None		
	16-31	l y b si w/grv		None		
574	0-10	o b si lo w/grv		None		
	10-24	l y b si w/grv		None		
575	0-16	o b si lo w/grv		None		
	16-30	l y b si w/grv		None		
576	0-16	o b si lo w/grv		None		
	16-30	l y b si w/grv		None		
577	0-17	o b si lo w/grv		None		
	17-31	l y b si w/grv		None		
578	0-21	o b si lo w/grv		None		
	21-37	l y b si w/grv		None		
579	0-21	o b si lo w/grv		None		
	21-42	l y b si w/grv		None		
580	0-20	o b si lo w/grv		None		
	20-40	l y b si w/grv		None		
581	0-23	o b si lo w/grv		None		
	23-44	l y b si w/grv		None		
582	0-21	o b si lo w/grv		None		
	21-41	l y b si w/grv		None		
583	0-23	o b si lo w/grv		None		
	23-44	l y b si w/grv		None		
584	0-21	o b si lo w/grv		None		
	21-42	l y b si w/grv		None		
585	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		
586	0-20	o b si lo w/grv		None		
	20-40	l y b si w/grv		None		
587	0-15	o b si lo w/grv		None		
	15-37	l y b si w/grv		None		
588	0-19/bedrock	o b si lo w/grv		None		
589	0-20	o b si lo w/grv		None		
	20-40	l y b si w/grv		None		
590	0-10	o b si lo w/grv		None		
	10-20	l y b si w/grv		None		
591	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		
592	0-20	o b si lo w/grv		None		
	20-41	l y b si w/grv		None		
593	0-21	o b si lo w/grv		None		
	21-41	l y b si w/grv		None		
594	0-23	o b si lo w/grv		None		
	23-44	l y b si w/grv		None		
595	0-17	o b si lo w/grv		None		
	17-40	l y b si w/grv		None		
596	0-23	o b si lo w/grv		None		
	23-43	l y b si w/grv		None		
597	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
598	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
599	0-10	o b si lo w/grv		None		
	10-25	l y b si w/grv		None		
600	0-20	o b si lo w/grv		None		
	20-34	l y b si w/grv		None		
601	0-18	o b si lo w/grv		None		
	18-33	l y b si w/grv		None		
602	0-17	o b si lo w/grv		None		
	17-32	l y b si w/grv		None		
603	0-19	o b si lo w/grv		None		
	19-35	l y b si w/grv		None		
604	0-23	o b si lo w/grv		None		
	23-38	l y b si w/grv		None		
605	0-17	o b si lo w/grv		None		
	17-37	l y b si w/grv		None		
606	0-18	o b si lo w/grv		None		
	18-40	l y b si w/grv		None		
607	0-23	o b si lo w/grv		None		
	23-42	l y b si w/grv		None		
608	0-17	d g b si lo w/grv		None		
	17-40	l y b si w/grv		None		
609	0-20	o b si lo w/grv		None		
	20-41	l y b si w/grv		None		
610	0-21	o b si lo w/grv		None		
	21-39	l y b si w/grv		None		
611	0-19	o b si lo w/grv		None		
	19-41	l y b si w/grv		None		
612	0-16	o b si lo w/grv		None		
	16-31	l y b si w/grv and cob.		None		
613	0-18	o b si lo w/grv		None		
	18-33	l y b si w/grv		None		
614	0-20	d g b si lo w/grv		None		
	20-35	l y b si w/grv		None		
615	0-18	o b si lo w/grv		None		
	18-34	l y b si w/grv		None		
616	0-16	d g b si lo w/grv		None		
	16-32	l y b si w/grv		None		
617	0-17	o b si lo w/grv		None		
	17-29	l y b si w/grv		None		
618	0-18	o b si lo w/grv		None		
	18-31	l y b si w/grv		None		
619	0-5	o b si lo w/grv and cob.		None		
	5-20	l y b si w/grv		None		
620	0-12	o b si lo w/grv		None		
	12-25	l y b si w/grv		None		
621	0-19	d g b si lo w/grv		None		
	19-31	l y b si w/grv		None		
22	0-18	o b si lo w/grv		None		
	18-30	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
623	0-14	o b si lo w/grv		None		
	14-26	l y b si w/grv and cob.		None		
624	0-22	o b si lo w/grv		None		
	22-35	l y b si w/grv		None		
625	0-18	o b si lo w/grv		None		
	18-28	l y b si w/grv		None		
626	0-10	o b si lo w/grv		None		
	10-21	l y b si w/grv		None		
627	0-14	o b si lo w/grv		None		
	14-26	l y b si w/grv		None		
628	0-19	o b si lo w/grv		None		
	19-30	l y b si w/grv		None		
629	0-17	o b si lo w/grv		None		
	17-30	l y b si w/grv and cob.		None		
630	0-18	o b si lo w/grv		None		
	18-30	l y b si w/grv		None		
631	0-23	o b si lo w/grv		None		
	23-35	l y b si w/grv		None		
632	0-22	o b si lo w/grv		None		
	22-33	l y b si w/grv		None		
633	0-12	o b si lo w/grv		None		
	12-20	l y b si w/grv		None		
634	0-15	o b si lo w/grv		None		
	15-26	l y b si w/grv		None		
635	0-19	o b si lo w/grv		None		
	19-29	l y b si w/grv and cob.		None		
636	0-21	o b si lo w/grv		None		
	21-30	l y b si w/grv		None		
637	0-21	o b si lo w/grv		None		
	21-30	l y b si w/grv		None		
638	0-22	o b si lo w/grv		None		
	22-33	l y b si w/grv		None		
639	0-19	o b si lo w/grv		None		
	19-31	l y b si w/grv		None		
640	0-18	o b si lo w/grv		None		
	18-40	l y b si w/grv		None		
641	0-17	o b si lo w/grv		None		
	17-40	l y b si w/grv		None		
642	0-18	o b si lo w/grv		None		
	18-39	l y b si w/grv		None		
643	0-21	o b si lo w/grv		None		
	21-42	l y b si w/grv		None		
644	0-25	o b si lo w/grv		None		
	25-45	l y b si w/grv		None		
645	0-20	o b si lo w/grv		None		
	20-41	l y b si w/grv		None		
646	0-25	o b si lo w/grv		None		
	25-47	l y b si w/grv		None		
647	0-12	o b si lo w/grv		None		
	12-24	l y b si w/grv and cob.		None		

T#	Depth	Soil Description	Q	Artifacts	Mat	Wt
648	0-6	o b si lo w/grv		None		
	6-20	l y b si w/grv		None		
649	0-8	d b si lo w/grv		None		
	8-20	l y b si w/grv		None		
650	0-15	o b si lo w/grv		None		
	15-28	l y b si w/grv		None		
651	0-17	o b si lo w/grv		None		
	17-33	l y b si w/grv		None		
652	0-17	o b si lo w/grv		None		
	17-34	l y b si w/grv		None		
653	0-18	o b si lo w/grv		None		
	18-34	l y b si w/grv		None		
654	0-25	o b si lo w/grv	1	tertiary flake	wh quartzite	23.7
			1	biface resharpening flake	gr Norm. chert	2.7
	25-40	l y b si w/grv		None		
654A	0-21	o b si lo w/grv		None		
	21-40	l y b si w/grv		None		
654B	0-23	o b si lo w/grv	1	tertiary flake	bl chert	0.3
	23-39	l y b si w/grv		None		
654C	0-23	o b si lo w/grv		None		
	23-38	l y b si w/grv		None		
654D	0-22	o b si lo w/grv	1	tertiary flake	gr Norm. chert	1.5
	22-36	l y b si w/grv		None		
654E	0-25	o b si lo w/grv		None		
	25-39	l y b si w/grv		None		
654F	0-26	o b si lo w/grv		None		
	26-41	l y b si w/grv		None		
654G	0-22	o b si lo w/grv		None		
	22-36	l y b si w/grv		None		
654H	0-20	d b si lo w/grv		None		
	20-36	l y b si w/grv		None		
655	0-17	o b si lo w/grv		None		
	17-33	l y b si w/grv		None		
656	0-18	o b si lo w/grv		None		
	18-38	l y b si w/grv		None		
657	0-19	o b si lo w/grv		None		
	19-36	l y b si w/grv		None		
658	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
659	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		
660	0-20	d b si lo w/grv		None		
	20-41	l y b si w/grv		None		
661	0-18	o b si lo w/grv		None		
	18-40	l y b si w/grv		None		
662	0-22	o b si lo w/grv		None		
	22-43	l y b si w/grv and cob.		None		
663	0-25	o b si lo w/grv		None		
	25-46	l y b si w/grv		None		

SHOVEL TEST RECORD

ST#	Depth	Soil Description	Q	Artifacts	Mat	Wt
664	0-21	o b si lo w/grv	1	biface	d g chert	8.1
	21-41	l y b si w/grv		None		
664A	0-23	o b si lo w/grv		None		
	23-43	l y b si w/grv		None		
664B	0-21	o b si lo w/grv	1	secondary decort. flake	gr Norm. chert	1.6
	21-41	l y b si w/grv		None		
664C	0-20	o b si lo w/grv	1	secondary decort. flake	mottled g chert	2.3
	20-41	l y b si w/grv		None		
664D	0-22	o b si lo w/grv		None		
	22-43	l y b si w/grv		None		
664E	0-23	o b si lo w/grv		None		
	23-43	l y b si w/grv		None		
664F	0-20	o b si lo w/grv	1	secondary decort. flake/block	gr Norm. chert	1.2
	20-40	l y b si w/grv		None		
664G	0-27	o b si lo w/grv		None		
	27-47	l y b si w/grv		None		
664H	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		
665	0-19	d b si lo w/grv		None		
	19-40	l y b si w/grv		None		
666	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		
667	0-20	v d g b si lo w/grv		None		
	20-40	l y b si w/grv		None		
668	0-21	o b si lo w/grv		None		
	21-42	l y b si w/grv		None		
669	0-16	d b si lo w/grv		None		
	16-35	l y b si w/grv		None		
670	0-20	o b si lo w/grv		None		
	20-35	l y b si w/grv		None		
671	0-23	o b si lo w/grv		None		
	23-40	l y b si w/grv and cob.		None		
672	0-25	o b si lo w/grv		None		
	25-37	l y b si w/grv		None		
673	0-18	o b si lo w/grv		None		
	18-36	l y b si w/grv		None		
674	0-17	o b si lo w/grv		None		
	17-33	l y b si w/grv		None		
675	0-21	o b si lo w/grv		None		
	21-37	l y b si w/grv		None		
676	0-19	o b si lo w/grv		None		
	19-33	l y b si w/grv		None		
677	0-20	d g b si lo w/grv		None		
	20-40	l y b si w/grv		None		
678	0-19	o b si lo w/grv		None		
	19-36	l y b si w/grv		None		
679	0-18	o b si lo w/grv		None		
	18-36	l y b si w/grv		None		
80	0-26	o b si lo w/grv		None		
	26-40	l y b si w/grv		None		

SHOVEL TEST RECORD

JT#	Depth	Soil Description	Q	Artifacts	Mat	Wt
681	0-20	o b si lo w/grv		None		
	20-40	l y b si w/grv and cob.		None		
682	0-20	o b si lo w/grv		None		
	20-40	l y b si w/grv		None		
683	0-22	o b si lo w/grv and cob.		None		
	22-43	l y b si w/grv		None		
684	0-20	o b si lo w/grv and cob.		None		
	20-42	l y b si w/grv		None		
685	0-22	d g b si lo w/grv		None		
	22-41	l y b si w/grv		None		
686	0-22	o b si lo w/grv		None		
	22-42	l y b si w/grv		None		
687	0-24	o b si lo w/grv		None		
	24-44	l y b si w/grv		None		
688	0-16	o b si lo w/grv		None		
	16-37	l y b si w/grv		None		
689	0-18	o b si lo w/grv		None		
	18-40	l y b si w/grv		None		
690	0-16	o b si lo w/grv		None		
	16-36	l y b si w/grv		None		
691	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv and cob.		None		
692	0-20	o b si lo w/grv		None		
	20-41	l y b si w/grv		None		
693	0-21	o b si lo w/grv		None		
	21-42	l y b si w/grv		None		
694	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		
695	0-21	o b si lo w/grv and cob.		None		
	21-43	l y b si w/grv		None		
696	0-20	o b si lo w/grv		None		
	20-41	l y b si w/grv		None		
697	0-19	o b si lo w/grv		None		
	19-40	l y b si w/grv		None		
698	0-25	v d b si lo w/grv		None		
	25-28/rock	l y b si w/grv		None		
699	0-14	o b si lo w/grv		None		
	14-29	l y b si w/grv		None		
700	0-18	o b si lo w/grv		None		
	18-33	l y b si w/grv		None		
701	0-17	d g b si lo w/grv		None		
	17-35	l y b si w/grv		None		
702	0-15	o b si lo w/grv		None		
	15-30	l y b si w/grv		None		
703	0-27	v d b si lo w/grv		None		
	27-41	l y b si w/grv		None		

SHOVEL TEST RECORD

APPENDIX 2

**NEW YORK STATE OFFICE OF PARKS RECREATION AND HISTORIC
PRESERVATION PREHISTORIC RESOURCE INVENTORY FORM**

Office Use Only: USN _____

1. IDENTIFICATION: Project Identifier: **Rail Trail Subdivision** Date: **11/7/08**

**Prepared By: Joseph E. Diamond, Archaeological Consultant, 290 Old Route 209,
Hurley, NY 12443. (845)338-0091**

Site Identifier: **Rail Trail Subdivision pre-contact site, Locus 1**

Property Name:

2. County: **Dutchess** Town: **Wappinger** Hamlet:

3: Present Owner: **Global Satellite , LLC**

4. SITE DESCRIPTION:

Surface Evidence: Buried Evidence: **X**

LOCATION:

Previously Cultivated: **X** Woodland: **X** Upland: **X**

Soil Drainage: excellent: **X**

Slope: flat: gentle: **X**

Distance to nearest water: **At edge of Town of Wappinger wetlands, otherwise 750 ft.**

Elevation: c. **272 ft AMSL**

5. Phase 1B Site Investigation: **One artifact, a projectile point tip found in shovel test #224. An additional 8 radials located no other artifacts.**

Investigator: **J. Diamond**

Present repository of Materials: **J. Diamond**

Manuscript or Published Reports: **Joseph E. Diamond Ph.D. Phase 1 Cultural Resource Investigation, Rail Trail Subdivision, Town of Wappinger, Dutchess County NY. 11/7/08**

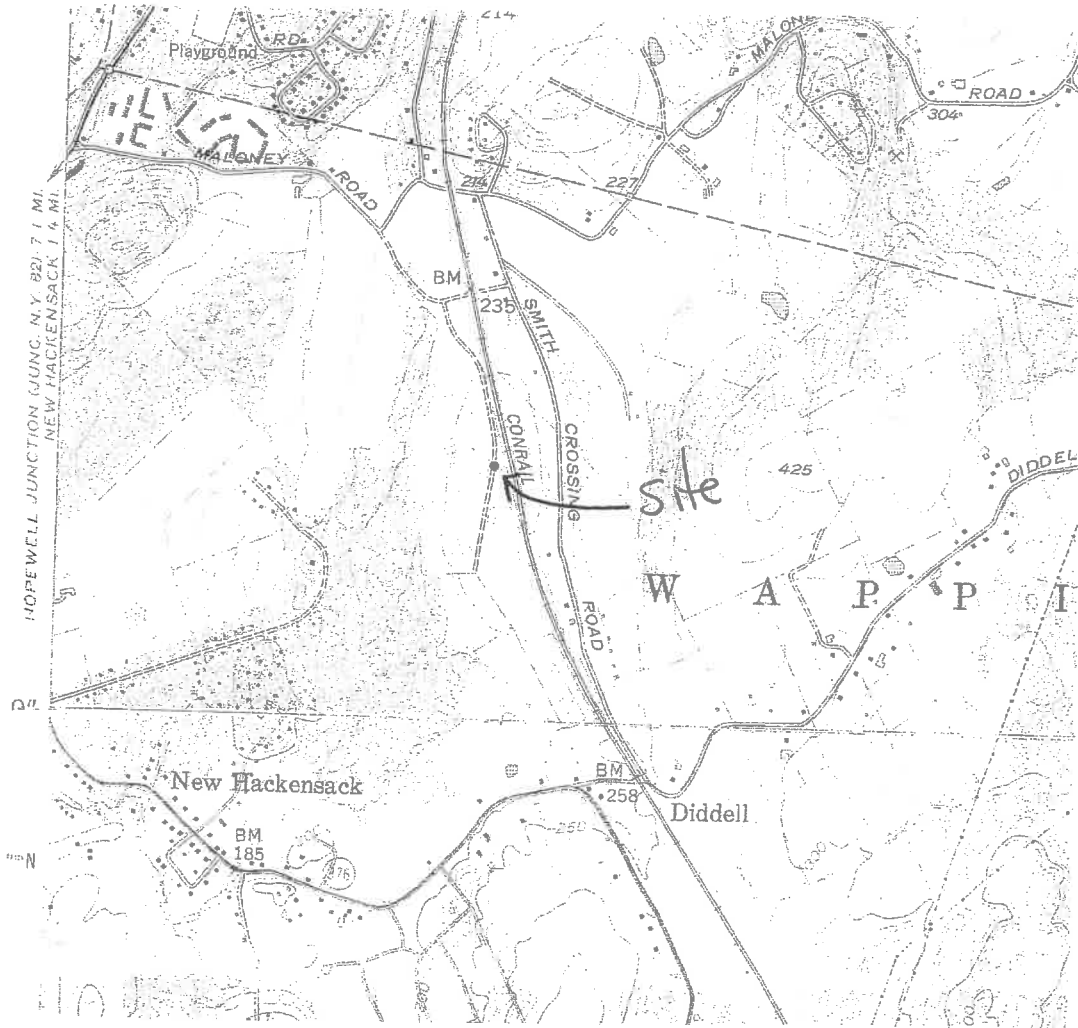
6. Components/ Cultural Affiliations/ Dates: **No culturally diagnostic artifacts.**

7. Total List of Material Remains From Phase 1B: **One projectile point tip of green Normanskill chert. Probably Archaic.**

8. Map references: Quadrangle: **Pleasant Valley Quadrangle**

UTM Coordinates: _____

9. Photography:



Prepared By: Joseph E. Diamond, Archaeological Consultant, 290 Old Route 209,
Hurley, NY 12443. (845) 338-0091

**NEW YORK STATE OFFICE OF PARKS RECREATION AND HISTORIC
PRESERVATION PREHISTORIC RESOURCE INVENTORY FORM**

Office Use Only: USN _____

1. IDENTIFICATION: Project Identifier: **Rail Trail Subdivision** Date: **11/7/08**

**Prepared By: Joseph E. Diamond, Archaeological Consultant, 290 Old Route 209,
Hurley, NY 12443. (845)338-0091**

Site Identifier: **Rail Trail Subdivision pre-contact site, Locus 2**

Property Name:

2. County: **Dutchess** Town: **Wappinger** Hamlet:

3. Present Owner: **Global Satellite , LLC**

4. SITE DESCRIPTION:

Surface Evidence: Buried Evidence: **X**

LOCATION:

Previously Cultivated: **X** Woodland: **X** Upland: **X**

Soil Drainage: excellent: **X**

Slope: flat: **X** gentle:

Distance to nearest water: **200 ft** Elevation: **c. 212-216 ft AMSL**

5. Phase 1B Site Investigation: **8 artifacts found in 7 shovel tests (654, 654B, 654D,
664, 664B, 664C, 664F)**

Investigator: **J. Diamond** Present repository of Materials: **J. Diamond**

Manuscript or Published Reports: **Joseph E. Diamond Ph.D. Phase 1 Cultural
Resource Investigation, Rail Trail Subdivision, Town of Wappinger, Dutchess
County NY. 11/7/08**

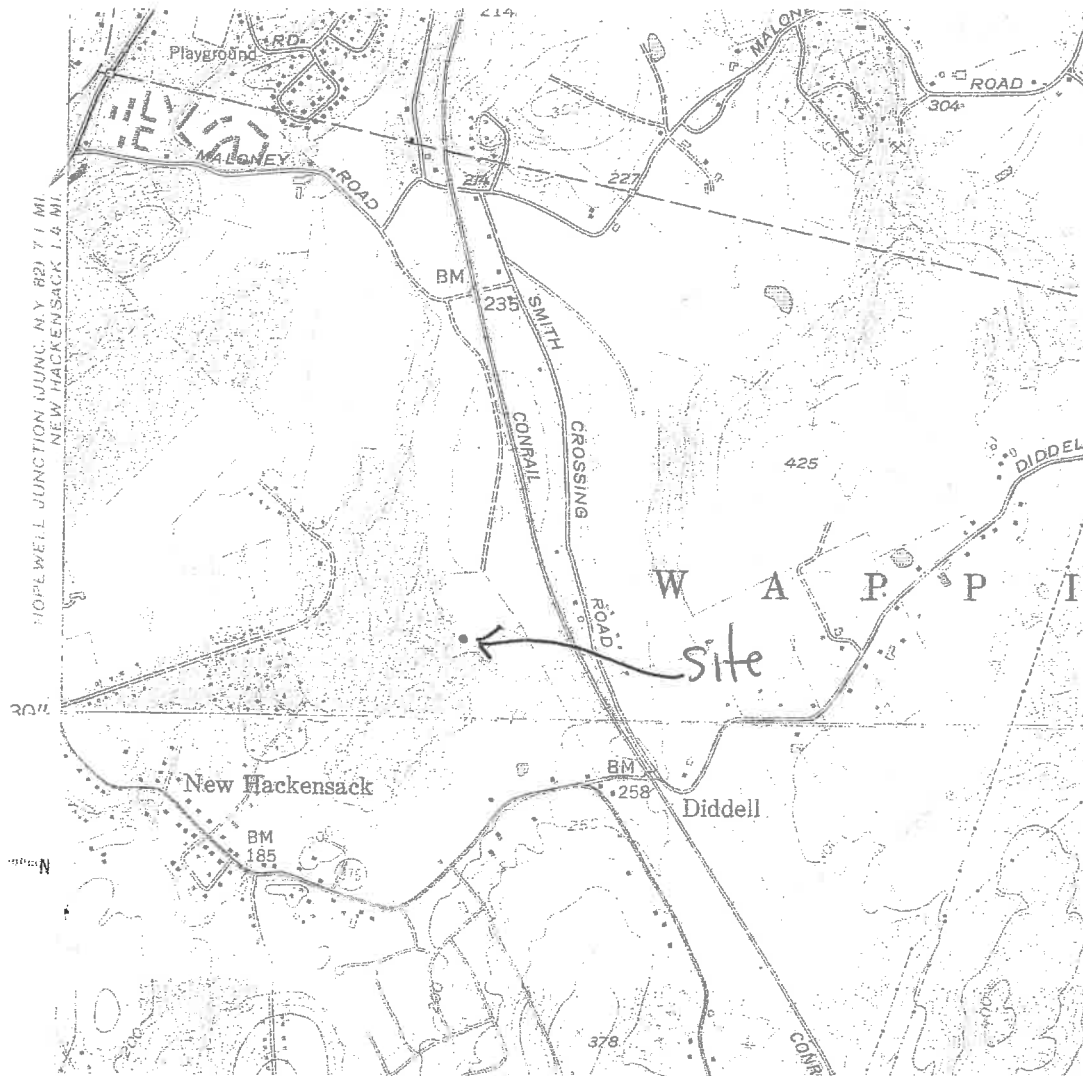
6. Components/ Cultural Affiliations/ Dates: **No culturally diagnostic artifacts.**

7. Total List of Material Remains From Phase 1B: **3 tertiary flakes, 3 secondary
decortication flakes, a biface, and a biface resharpening flake (N=8). Materials
include green Normanskill chert, mottled grey chert, black chert, dark grey chert
and white quartzite.**

8. Map references: Quadrangle: **Pleasant Valley Quadrangle**

UTM Coordinates: _____

9. Photography:



Prepared By: Joseph E. Diamond, Archaeological Consultant, 290 Old Route 209,
Hurley, NY 12443. (845) 338-0091

PHASE 1B CULTURAL RESOURCE INVESTIGATION ADDENDUM
AND
PHASE 2 SITE EVALUATION OF RAIL TRAIL PRECONTACT LOCUS 2
(A02719.000221)

PROPOSED RAIL TRAIL SUBDIVISION

TOWN OF WAPPINGER, DUTCHESS CO., NY

DEC# 3-1356-00253/00001
OPRHP# 09PR00714

PREPARED FOR:

POVALL ENGINEERING, PLLC
25 CORPORATE PARK DRIVE,
SUITE C
HOPEWELL JUNCTION, NY 12533

FEBRUARY 22nd, 2010

PREPARED BY: JOSEPH E. DIAMOND, Ph.D.

290 OLD ROUTE 209,

HURLEY, N.Y. 12443

845-338-0091



PROJECT REVIEW COVER FORM

Rev. 10-04

Please complete this form and attach it to the top of any and all information submitted to this office for review.
 Accurate and complete forms will assist this office in the timely processing and response to your request.

This information relates to a previously submitted project.

PROJECT NUMBER 09 PR 00714

If you have checked this box and noted the previous Project Review (PR) number assigned by this office you do not need to continue unless any of the required information below has changed.

COUNTY Dutchess

2. This is a new project.

If you have checked this box you will need to complete ALL of the following information.

Project Name Rail Trail Subdivision

Location East of Airport Drive

You MUST include street number, street name and/or County, State or Interstate route number if applicable

City/Town/Village Wappingers

List the correct municipality in which your project is being undertaken. If in a hamlet you must also provide the name of the town.

County Dutchess

If your undertaking* covers multiple communities/counties please attach a list defining all municipalities/counties included.

TYPE OF REVIEW REQUIRED/REQUESTED (Please answer both questions)

A. Does this action involve a permit approval or funding, now or ultimately from any other governmental agency?

No Yes

If Yes, list agency name(s) and permit(s)/approval(s)

Agency involved	Type of permit/approval	State	Federal
<u>SEQRA</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>SPEDES</u>	<u>(DEC)</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Stream Crossing</u>	<u>(DEC/ACOE)</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

B. Have you consulted the NYSHPO web site at <http://www.nysparks.state.ny.us/shpo> to determine the preliminary presence or absence of previously identified cultural resources within or adjacent to the project area? If yes:

Yes No

Was the project site wholly or partially included within an identified archeologically sensitive area?

Yes No

Does the project site involve or is it substantially contiguous to a property listed or recommended for listing in the NY State or National Registers of Historic Places?

Yes No

CONTACT PERSON FOR PROJECT

Name William Povall Title Engineer

Firm/Agency Povall Engineering, PLLC

Address 25 Corporate Park Drive, Suite C City Hopewell Junction STATE NY zip 12533

Phone (845) 897-8205 Fax (845) 897-0042 E-Mail billp@povallengineering.com

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Phase 1B Archaeological Addendum

Management Summary.....	1
Introduction.....	2
Research Design.....	2
Field Methods and Procedures.....	2
Results of Field Investigation.....	2
Conclusion and Recommendations	2
References.....	3

MAPS

1. New York State.
2. U.S.G.S. Pleasant Valley and Hopewell Junction Quadrangles.
3. Project Map/Northern portion of project area (enclosure).
4. Project Map/Southern portion of project area (enclosure).

PHOTOGRAPHS

1. Excavation of Shovel test #739. View northwest.

APPENDICES

1. Shovel Test Record.

MAPS

CULTURAL RESOURCE INVESTIGATION PHASE 1B ADDENDUM

Management Summary

SHPO: Project Review #: DEC# 3-1356-00253/00001
OPRHP# 09PR00714

Involved State and Federal Agencies: SEQRA, DEC/ SPDES GP-002-01
DEC/Stream Crossing permit
ACOE/ Wetland Mitigation

Phase of Survey: Phase 1B Addendum

Location Information: Original Survey Area
Survey Area (Metric and English): 114.30 acre (46.26 hectare)
Length: c. 5200 ft (1585 m) north/south
Width: c. 2000 ft (610 m) east/west

Current survey area for Phase 1B Addendum: Approximately 2.8 acres (1.1 ha).

USGS 7.5 Minute Quadrangle Map: Pleasant Valley and Hopewell Junction Quadrangles

Archaeological Survey Overview: Due to changes in the amount of horizontal surface area and the location of the proposed wetland mitigation for this project, several areas were subjected to expanded testing past the original Phase 1B Archaeological Survey (Diamond 11/7/08). The first of these included two small areas on the eastern side of the stream directly across from the current cul-de-sac. These two locations were tested with a total of 12 shovel tests. No historic or pre-contact artifacts were found.

A second location that was tested for this Addendum, was an enlarged mitigation area where presently dry land will be turned to wetland. A total of 31 shovel tests were excavated here. No historic or pre-contact artifacts were found.

Results of Archaeological Addendum:

Total shovel tests excavated: 43

Number & name of prehistoric sites identified during 1B Addendum: None

Number & name of historic sites identified during 1B Addendum: None

Report Author: Joseph E. Diamond, Ph.D.

Date of Report: 2/22/10

RAIL TRAIL: PHASE 1B ARCHAEOLOGICAL ADDENDUM

Introduction

This cultural resource survey was conducted to evaluate several small portions of the project area that have been added to the original proposed Rail Trail Subdivision in the Town of Wappinger, Dutchess County, NY (Maps 1 and 2). The project area is a 114.30 acre (46.26 hectare) parcel located at the end of Airport Drive. The project area is a roughly diamond-shaped parcel with numerous projections that abut Hackensack Heights Road in its southwestern portion, and the old New York and New Haven Railroad line, now Consolidated Rail, along a portion of its eastern edge (Map 2). The proposed project is at this point a subdivision with 44.6 acres (18.05 ha) of wetland, 30.68 acres (12.4 ha) of wetland buffer, and a proposed stream crossing from Airport Drive to provide access.

This Phase 1B Addendum covers approximately 2.8 acres (1.1 ha). It is composed of essentially two areas; one near the stream crossing, and one near the southern portion of the project area.

Research Design

Field reconnaissance on the Phase 1B Addendum was begun in mid October of 2010 and completed during the same month. Shovel testing was undertaken in the Area of Proposed Effect (APE), in three locations. Two of these were on either side of the eastern side of the proposed stream crossing, and the third was the expanded wetland mitigation area.

Field Methods and Procedures

Field methods consisted of locating the exact location of the stream crossing and testing the small areas that were to be impacted by it and around it. Shovel tests were laid out, flagged and then excavated. For the area of additional wetland mitigation to the south, previous shovel test lines were identified, and transects were extended into the new area to be included under the wetland mitigation. The testing procedure covered the entire APE of each area.

All soil was screened through 1/4 inch hardware cloth. A Munsell soil color chart was used to determine soil colors.

Results of Field Investigation

Stream Crossing and Small Wetland Mitigation areas.

A total of 12 shovel tests were excavated in the area around the stream crossing and small wetland mitigation areas (Photograph 1). Shovel tests 737-743 targeted the road and small wetland mitigation to the north of it. Shovel tests 744 to 748 tested a small wetland mitigation area and short proposed access roadway leading down to it (Map 3, enclosure). The soils consisted primarily of clayey loams overlying various colors of clay. No historic or prehistoric artifacts were found (see Appendix 1).

Southern Expanded Wetland Mitigation Area

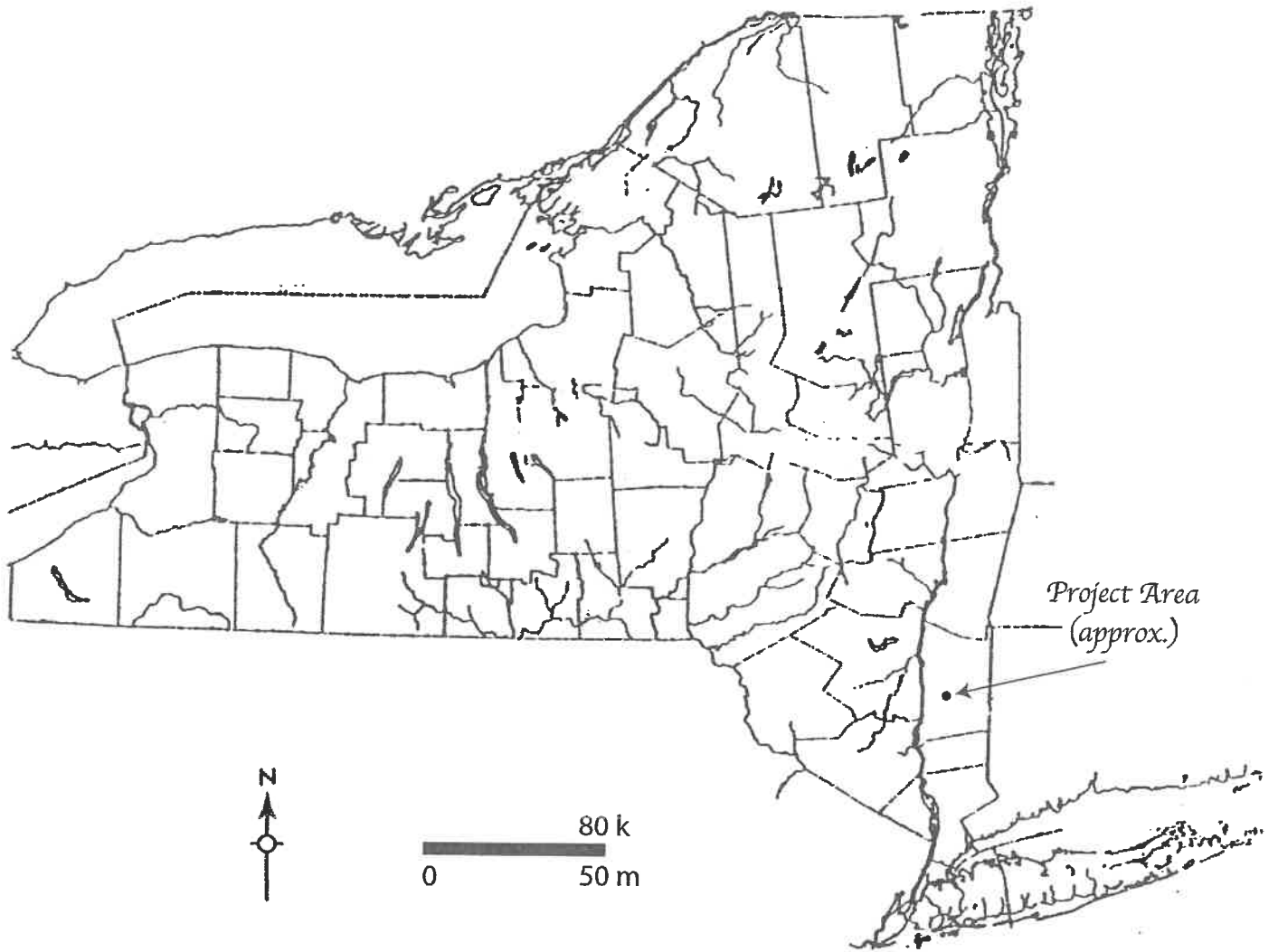
To the south, the area that was the expanded wetland mitigation area was tested with a total of 31 shovel tests (Map 4, enclosure). These were shovel tests 706 through 736. The soils here were an old plowzone that was very consistent from one end to the other. The soils were a brown silty loam with gravel overlying a yellow brown silt with gravels. No historic or prehistoric artifacts were found (see Appendix 1).

Conclusion and Recommendations

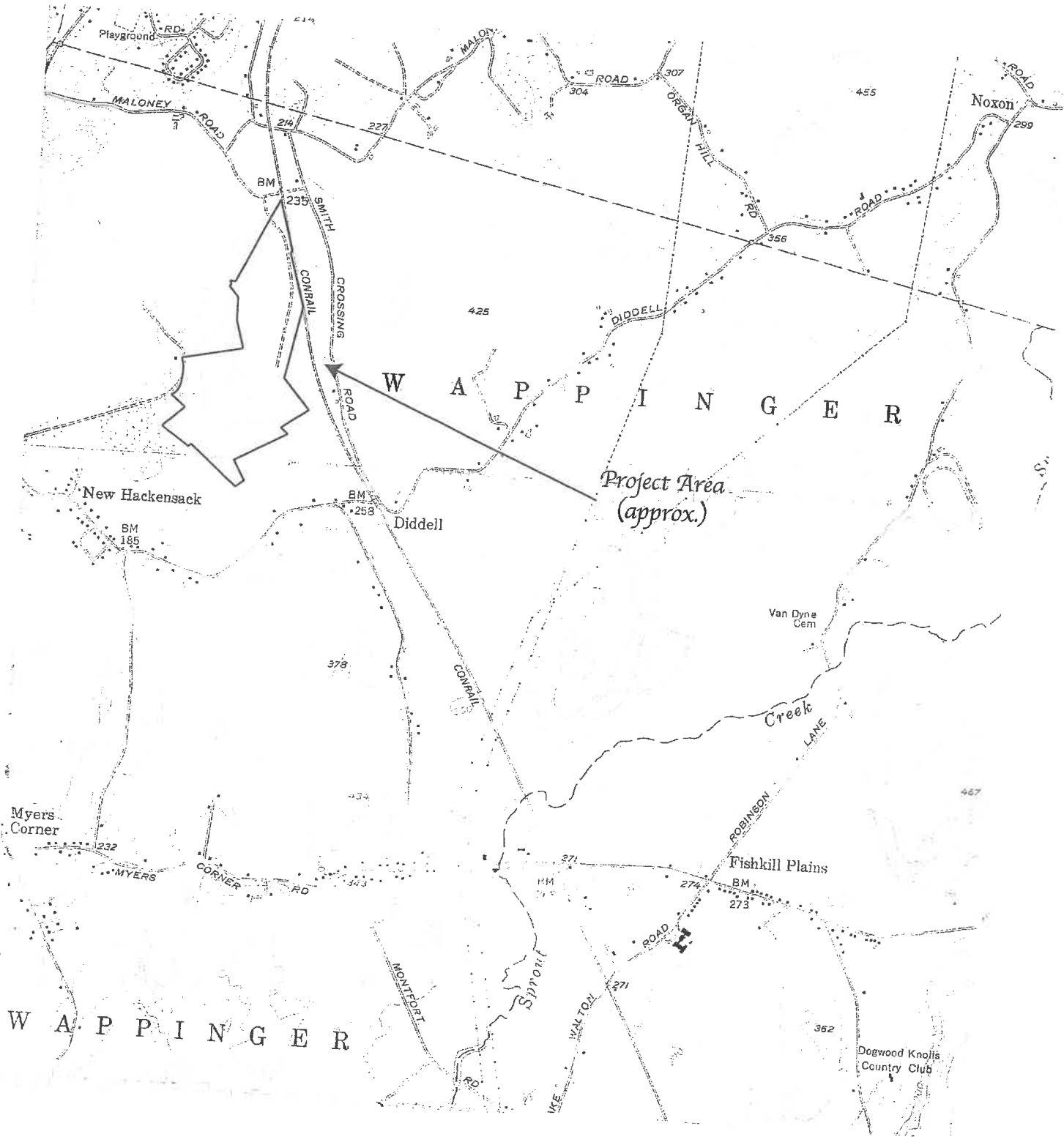
Additional shovel testing of three areas of the proposed Rail Trail Subdivision targeted newly proposed wetland mitigation areas. A total of 43 shovel tests were excavated, with no historic or prehistoric artifacts being found. No further work is recommended for these locations.

REFERENCES

- Diamond, Joseph E.
2008 Phase 1 Cultural Resource Investigation, Proposed Rail Trail Subdivision, Town of
Wappinger, Dutchess County, NY. (11/7/08)



Map 1. New York State



2000 ft. / 610 m.

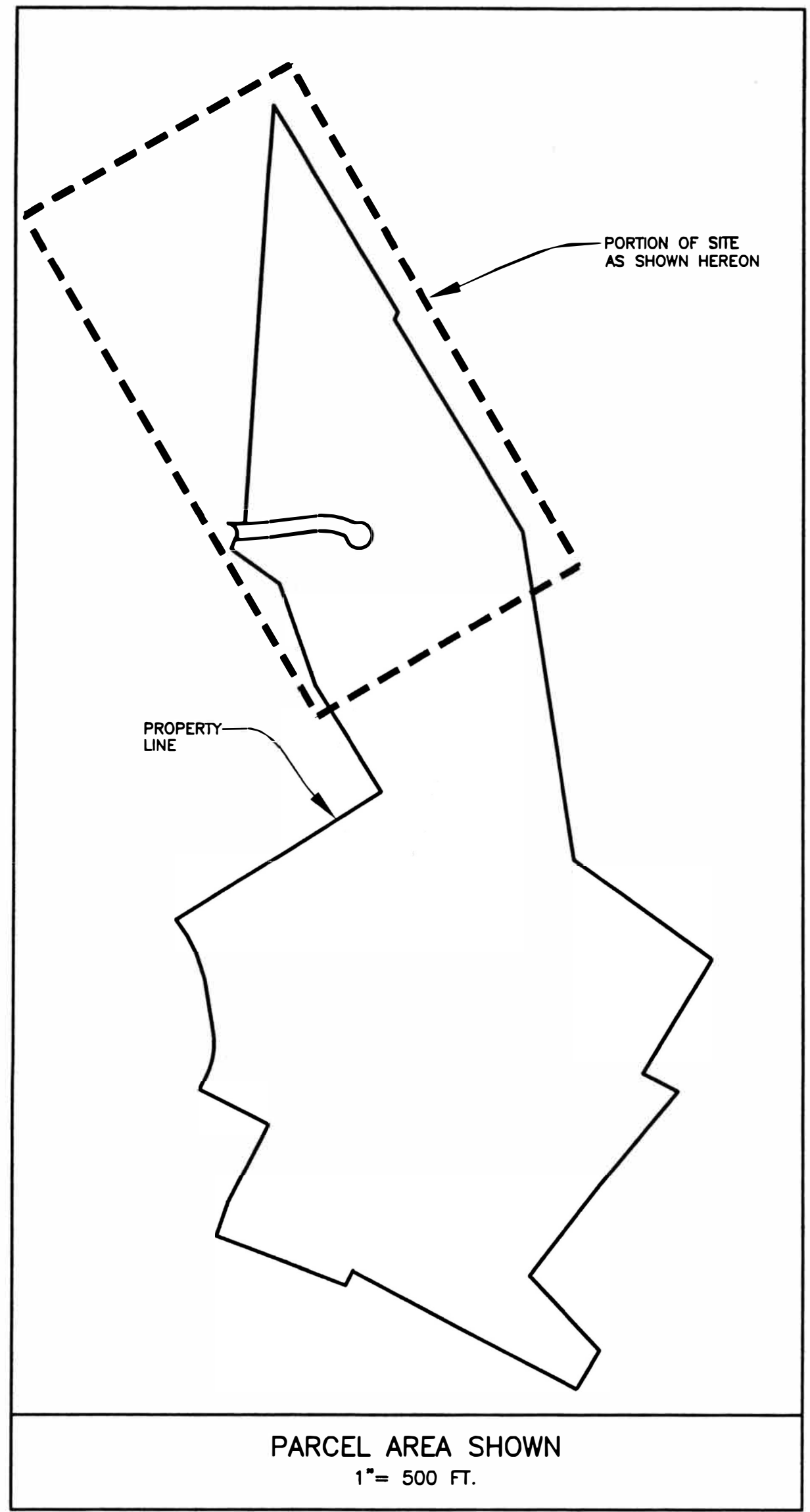
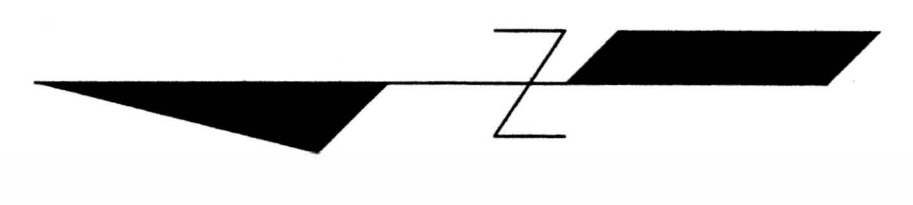
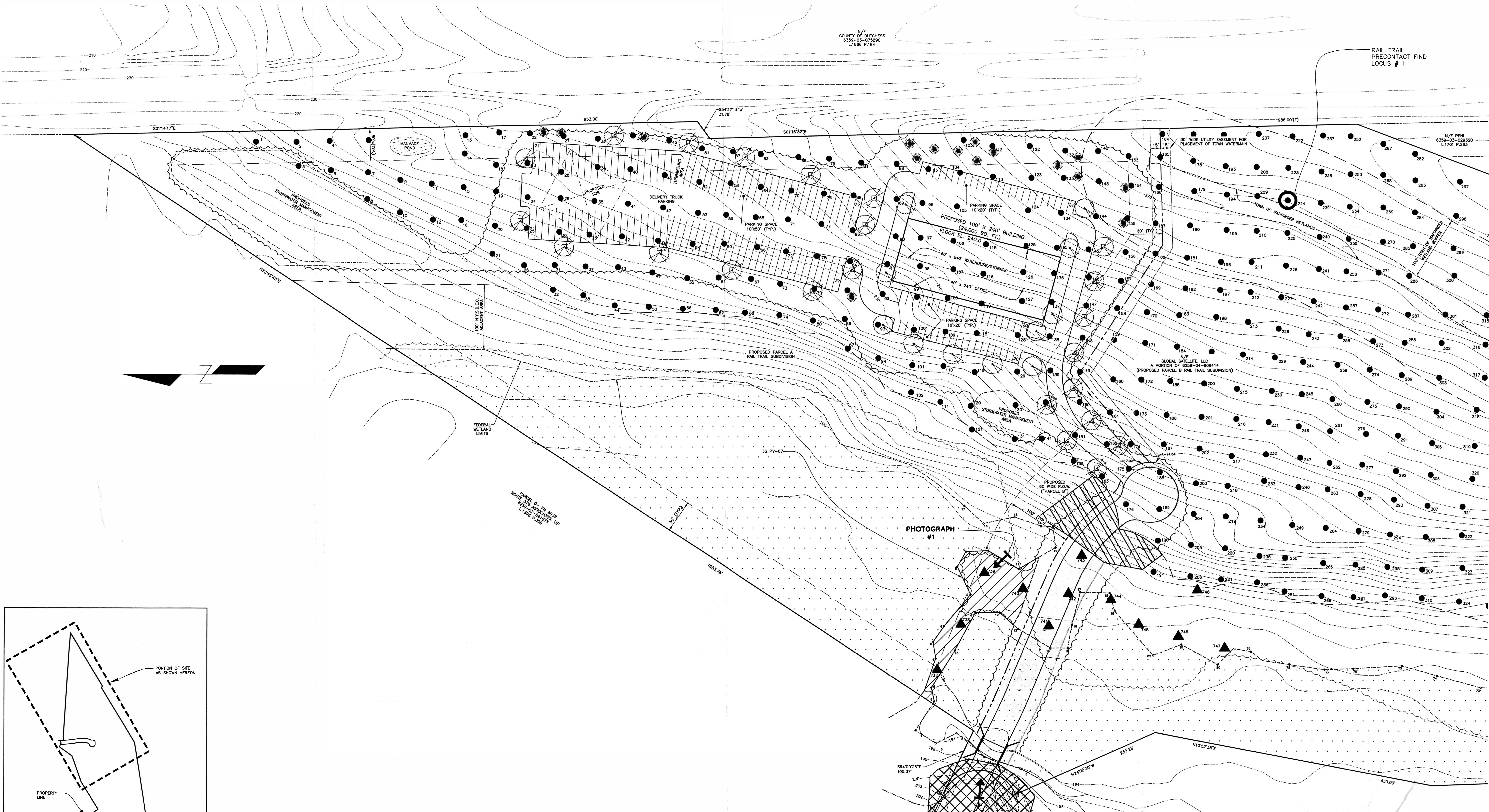


North

Map 2. USGS Hopewell Junction & Pleasant Valley Quadrangles

N/T
 COUNTY OF DUTCHESS
 6356-03-075290
 L1666 P.184

RAIL TRAIL
 PRECONTACT FIND
 LOCUS # 1



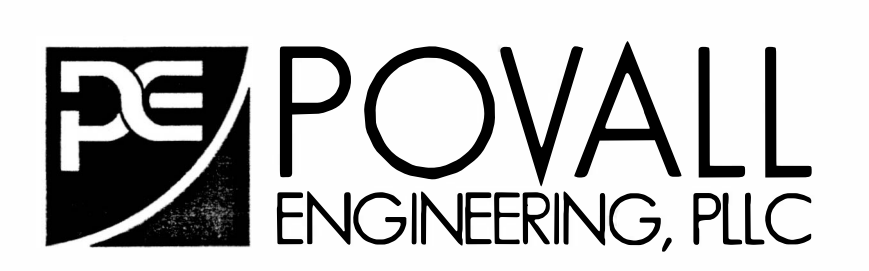
MAP 3: PHASE 1B ADDENDUM

	PHASE 1B ADDENDUM SHOVEL TEST HOLES
	ORIGINAL PHASE 1B SHOVEL TEST HOLES
	PHOTOGRAPH LOCATION
	PREHISTORIC HIT
	AREA NOT EXCAVATED DUE TO SLOPE EXCEEDING 12-15%
	PREVIOUSLY DISTURBED AREA
	WET OR STANDING WATER

LEGEND

	PROPERTY LINE
	EXISTING R.O.W./LOT LINE
	PROPOSED LOT LINE
	EXISTING CONTOUR
	EXISTING WATER COURSE
	EXISTING TREE LINE
	EXISTING PAVEMENT
	WETLAND FLAG
	N.Y.S.D.E.C. A.C.D.E. & TOWN JURISDICTIONAL WETLANDS
	N.Y.S.D.E.C. & TOWN 100' BUFFER LIMIT
	N.Y.S.D.E.C. FRESHWATER WETLANDS
	WETLAND MITIGATION AREA

REVISIONS	
DATE:	DESCRIPTION:




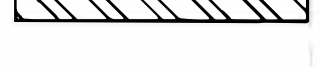




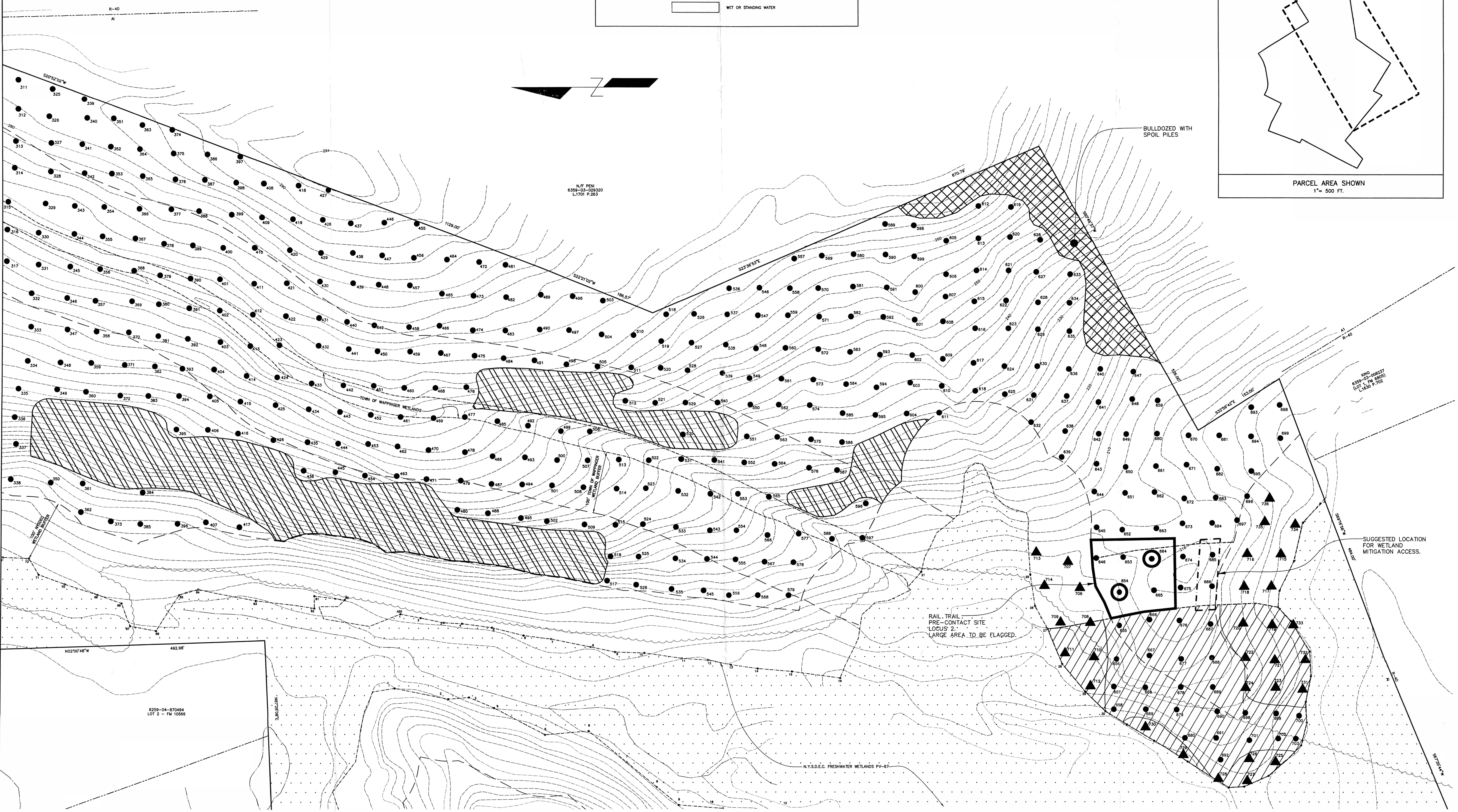
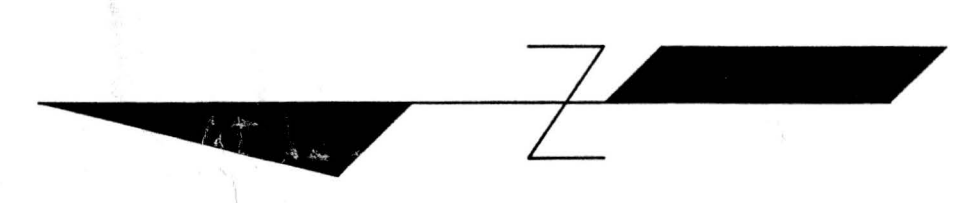
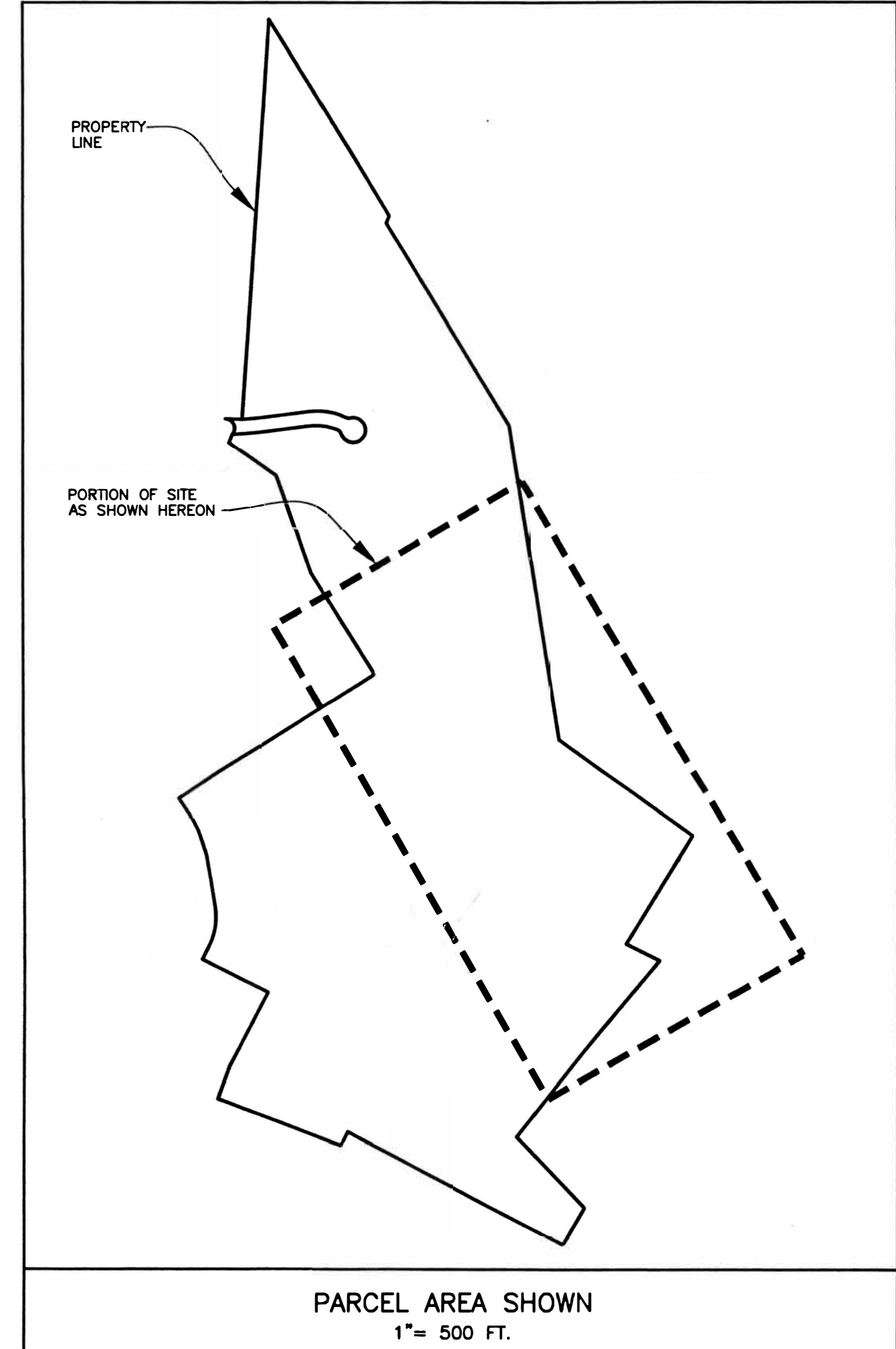
WILLIAM H. POVALL III, P.E.
 N.Y.S.P.E. LICENSE #075020
 25 CORPORATE PARK DR., SUITE C
 HOPEWELL JUNCTION, NY 12533
 TEL: (845) 897-8205
 FAX: (845) 897-0042

PHASE 1B ADDENDUM MAP 3 FOR
RAIL TRAIL SUBDIVISION
 TOWN OF WAPPINGER
 DUTCHESS COUNTY, NEW YORK

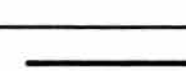


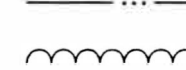

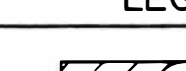
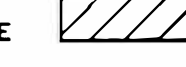



JOB #: 0402
 DATE: 03-09-10
 SCALE: 1"=50'
 AS-2
 SHEET 1 OF 2


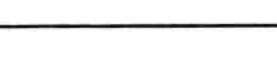

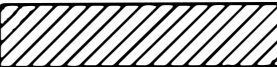

MAP 4: PHASE 1B ADDENDUM

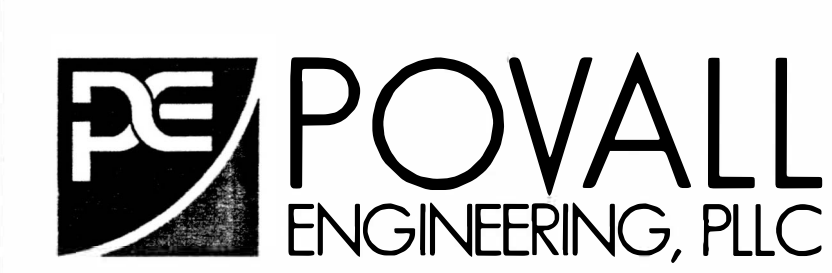
-  PHASE 1B ADDENDUM SHOVEL TEST HOLES
-  ORIGINAL PHASE 1B SHOVEL TEST HOLES
-  PREHISTORIC HIT
-  AREA NOT EXCAVATED DUE TO SLOPE EXCEEDING 12-15%
-  PREVIOUSLY DISTURBED AREA
-  WET OR STANDING WATER



DATE:	REVISIONS

LEGEND	
	PROPERTY LINE
	EXISTING R.O.W./LOT LINE
	EXISTING CONTOUR
	EXISTING WATER COURSE
	EXISTING TREE LINE
	WETLAND MITIGATION AREA
	WETLAND FLAG
	N.Y.S.D.E.C. ACCE & TOWN JURISDICTIONAL WETLANDS
	N.Y.S.D.E.C. & TOWN 100' BUFFER LIMIT
	N.Y.S.D.E.C. FRESHWATER WETLANDS

	SHOVEL TEST HOLES		AREA NOT EXCAVATED DUE TO SLOPE EXCEEDING 12-15%
	PHOTOGRAPH LOCATION		EDGE OF DISTURBED AREA
	PREHISTORIC HIT		



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TEL: (845) 897-8205
FAX: (845) 897-0542

PHASE 1B ADDENDUM MAP 4 FOR RAIL TRAIL SUBDIVISION

TOWN OF WAPPINGER DUTCHESS COUNTY, NEW YORK

JOB #: 0402
DATE: 03-09-10
SCALE: 1"=50'
AS-2
SHEET 2 OF 2

PHOTOGRAPHS



Photograph 1: Excavation of Shovel test #739. View northwest.

APPENDICES

APPENDIX 1

ST	Depth	Soil Description	Q	Artifact	Mat
706	0-15/rock	brown silty loam w/gravel		None	
707	0-22	brown silty loam w/gravel		None	
	22-40	yel. brown silt w/ gravels		None	
708	0-27	brown silty loam w/gravel		None	
	27-43	yel. brown silt w/ gravels		None	
709	0-25	brown silty loam w/gravel		None	
	25-45	yel. brown silt w/ gravels		None	
710	0-25	brown silty loam w/gravel		None	
	25-36	yel. brown silt w/ gravels		None	
711	0-29	brown silty loam w/gravel		None	
	29-50	yel. brown silt w/ gravels		None	
712	0-19	brown silty loam w/gravel		None	
	19-35	yel. brown silt w/ gravels		None	
713	0-23	brown silty loam w/gravel		None	
	23-44	yel. brown silt w/ gravels		None	
714	0-23	brown silty loam w/gravel		None	
	23-45	yel. brown silt w/ gravels		None	
715	0-26	brown silty loam w/gravel		None	
	26-45	yel. brown silt w/ gravels		None	
716	0-24	brown silty loam w/gravel		None	
	24-39	yel. brown silt w/ gravels		None	
717	0-22	brown silty loam w/gravel		None	
	22-42	yel. brown silt w/ gravels		None	
718	0-20	brown silty loam w/gravel		None	
	20-36	yel. brown silt w/ gravels		None	
719	0-21	brown silty loam w/gravel		None	
	21-41	yel. brown silt w/ gravels		None	
720	0-30	brown silty loam w/gravel		None	
	30-45	yel. brown silt w/ gravels		None	
721	0-26	brown silty loam w/gravel		None	
	26-46	yel. brown silt w/ gravels		None	
722	0-23	brown silty loam w/gravel		None	
	23-35	yel. brown silt w/ gravels		None	
723	0-21	brown silty loam w/gravel		None	
	21-42	yel. brown silt w/ gravels		None	
724	0-23	brown silty loam w/gravel		None	
	23-37	yel. brown silt w/ gravels		None	
725	0-15	v. dk. brn silty loam		None	
	15-38	reddish yellow clay		None	
726	0-24	dk. gr. brn silty clay		None	
	24-34	lt. red. brown clay		None	
727	0-35	black silty clay		None	
	35-40	dk. grey clay		None	
728	0-24	grey clay		None	
	24-30	lt. brn. and mott. grey clay		None	
729	0-13	brown silty loam w/gravel		None	
	13-30	brown silt w/ gravels		None	
730	0-24	brown silty loam w/gravel		None	
	24-37	brown silt w/ gravels		None	
731	0-24	brown silty loam w/gravel		None	

ST	Depth	Soil Description	Q	Artifact	Mat
	24-44	yel. brown silt w/ gravels		None	
732	0-21	brown silty loam w/gravel		None	
	21-43	yel. brown silt w/ gravels		None	
733	0-22	brown silty loam w/gravel		None	
	22-42	yel. brown silt w/ gravels		None	
734	0-24	brown silty loam w/gravel		None	
	24-45	yel. brown silt w/ gravels		None	
735	0-24	brown silty loam w/gravel		None	
	24-44	yel. brown silt w/ gravels		None	
736	0-23	brown silty loam w/gravel		None	
	23-43	yel. brown silt w/ gravels		None	
737	0-14	v. dk. grey.brn clay loam		None	
	14-32	grey clay		None	
738	0-16	dk. grey. brn. silt		None	
	16-32	reddish brown clay		None	
739	0-15	v. dk. grey.brn clay loam		None	
	15-40	grey clay		None	
740	0-20	v. dk. grey.brn clay loam		None	
	20-30	grey clay		None	
741	0-25	v. dk. grey.brn clay loam		None	
	25-45	grey clay		None	
742	0-12/boulder	brown silt/boulder		None	
743	0-19/boulder	brown silty loam/boulder		None	
744	0-26	brown silty loam		None	
	26-45	dk. yel brn clay		None	
745	0-20	dk grey clay		None	
	20-32	lt. brown and grey mott. clay		None	
746	0-21	dk grey clay		None	
	21-31	lt. brown and grey mott. clay		None	
747	0-30	v. dk. grey silty loam		None	
	30-50	dk grey clay		None	
748	0-31	v. dk. grey silty loam		None	
	31-50	dk grey clay		None	

**PHASE 2 SITE EVALUATION OF RAIL TRAIL PRECONTACT LOCUS 2
(A02719.000221)**

**PROPOSED RAIL TRAIL SUBDIVISION
TOWN OF WAPPINGER, DUTCHESS CO., NY**

DEC# 3-1356-00253/00001

OPRHP# 09PR00714

FEBRUARY 22nd, 2010

Phase II: Table of Contents

Phase 2 Archaeological Evaluation

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MAPS

1. New York State.
2. U.S.G.S.
3. Project Map (enclosure).

PHOTOGRAPHS

1. Overall view from near ST# 834. View west.
2. View north from roadway.
3. View northeast up old bulldozed roadway.
4. View west from near ST#896, with well head in right rear of photograph.
5. Excavation of ST # 805. View north.
6. Unit 1 at conclusion of excavation. View north.
7. Unit 2 at conclusion of excavation. View north.
8. Artifacts from Phase 2. Upper row, left to right; drill, ST 808, Level 1; projectile point, ST# 871, Level 1; projectile point, ST# 882, Level 1; marginal biface, ST# 805, Level 1; biface, ST# 873, Level 1. Bottom row, left to right. Flake knife, projectile point frag., denticulate, all from Unit 1, Level 1.

FIGURES

1. Phase II Testing of Rail Trail Pre-Contact Site #2 (A02719.000221).

APPENDICES

1. Shovel Test/Unit/Artifact Record.
2. Revised OPRHP Prehistoric Site Form for Rail Trail Subdivision Pre-Contact Site #2.

RAIL TRAIL SUBDIVISION PHASE 2: MANAGEMENT SUMMARY

SHPO: Project Review #: **09PR00714**

Involved State and Federal Agencies: **SEQRA, SPDES GP-002-01**
Stream Crossing permit

Phase of Survey: **Phase 2 Evaluation**

Location Information: **Original Survey Area**
Survey Area (Metric and English): **114.30 acre (46.26 hectare)**
Length: **c. 5200 ft (1585 m) north/south**
Width: **c. 2000 ft (610 m) east/west**

USGS 7.5 Minute Quadrangle Map: **Pleasant Valley and Hopewell Junction Quadrangles**

PHASE 2:

Number of Square Meters & Feet Excavated during Phase II: **97 (50 cm) shovel tests and 2 one meter squares (total excavated area = 26.25 square meters).**

Artifacts: **141 Pre-Contact artifacts found during the Phase 2.**

Time period/Cultural Phase: **Sylvan Lake Phase (c. 2500-2000 BC).**

Results of Archaeological Survey

Number & name of sites recommended for Phase III: **None- the boundaries of site A02719.000221 have been determined and it is suggested that the site be fenced off and avoided during construction of the road to effect the Wetland Mitigation. The site will be within the designated 100 foot wetland buffer and will not be affected.**

Report Author (s): **Joseph E. Diamond, Ph.D.**

Date of Report: **2/22/2010**

PHASE II CULTURAL RESOURCE INVESTIGATION AND EVALUATION

Introduction

This Phase 2 Site Evaluation was undertaken to 1) determine the Pre-Contact Site A02719.000221 meets Eligibility requirements to be included in the State and National Register of Historic Places, and 2) to determine the horizontal size and extent of the site. The latter is important because the applicant is proposing to avoid the site. In a letter from OPRHP dated 8/18/09, Cynthia Blakemore stated that "Additionally, the current proposed avoidance plan for the Rail Trail Precontact Locus 2 Site does not adequately avoid/protect the site. First of all the boundary of the site should be set at least 50' (or more) from each positive test with at least an additional buffer of 20'. This is necessary since the Phase II survey has not been undertaken to determine the exact site boundary. Given the close proximity of the wetland mitigation to the site and the unknown long-term indirect impacts that may result from this disturbance, the SHPO recommends that Phase II site examination be undertaken to determine the site boundary and assess the eligibility of the site for inclusion in the State and National Registers of Historic places".

During the Phase 1B, the site was located with two initial shovel tests (654 and 664), and an avoidance plan was suggested. Based on the abovementioned comments we proceeded with a Phase 2 Site Evaluation to determine the size, vertical extent and temporal/cultural affiliation of the site.

The site is located on a relatively level terrace (Photographs 1 and 2) 212-216 feet above mean sea level. It overlooks a large wetland, which at one point was probably a lake.

Research Design

The Phase 2 was initiated in October of 2009 and completed in November of 2009. The Phase 2 Evaluation was undertaken to assess the two original find spots for the debitage encountered during the Phase 1B location of the Rail Trail Pre-Contact Site #2. This was done primarily to ascertain the size and extent of the site to determine if there was space for an egress road to its south for wetland mitigation procedures.

The Phase 2 was designed to determine if significant deposits associated with the site (or sites) could be located, how old the deposits were, their horizontal extent and depth, if prehistoric features existed below the A-Horizon soil (a plow zone), and if the site would meet eligibility requirements for the State and/or National Registers of Historic Places. The Rail Trail Pre-Contact Site #2 would be eligible under criterion D if it "has yielded, or may be likely to yield, information important in prehistory or history". Based on the small number of artifacts found during the Phase 1B the site was considered a "small lithic scatter".

The research design consisted of sampling the A and B horizon soils in the areas where the initial find spots were made (ST#'s 654 and 664). Our purpose was to relocate the original positive shovel tests (which had been flagged during the Phase 1B), and sample the areas around the find spots. After placing a large number of 50 centimeter squared-off shovel tests around and between the initial find spots, we then sampled portions of the site that appeared to have the highest density in terms of artifacts/ square meter.

Throughout the project area, forms of disturbance which might have effected the distribution of artifacts included forest clearing (probably in the 18th or 19th century), and plowing for farming. A dirt road (Photograph 3) and several spoil piles (Photograph 2, foreground) are indicative of disturbances that cut through the Rail Trail Precontact Site Locus 2 site and are found on its northern edge. There is also a drilled well head (Photograph 4) beyond the western extent of the Pre-Contact Site.

The soils in the project area show a clear A-Horizon of varying depth (c. 20-30 cm) with a relatively undisturbed subsoil beneath it. Soil textures and colors are consistently brown silty loam over yellow brown silt with gravels.

Field Methods and Procedures

The Phase II Investigation of the lithic scatter was undertaken as follows: Each initial find spot from the Phase 1B was found and reflagged, and a baseline was set up connecting each. A series of 50 cm shovel tests were then set up at 5 meter intervals around the initial find spots. Excavation of the 50 cm shovel tests (Photograph 5) then began in the vicinity of the initial positive shovel tests and worked outward. For numbering we began with ST# 800 and went to 896.

During the Phase 2 Site Evaluation, all excavated soils were screened through 1/4 inch hardware cloth and examined for artifacts. All soils were identified using a Munsell Soil Color Chart. Phase 2 artifact densities, shovel tests, and excavation units are shown on Figure 1.

On Figure 1 each box representing a 50 cm shovel test has the shovel test number on the outside, and if it produced prehistoric artifacts, it is filled in (darkened) with red and the artifact count appears next to it in red. Artifacts are listed in the shovel test record (Appendix 1). Photograph locations and directions are also shown on Figure 1.

Results of Field Investigation: The Rail Trail Subdivision Pre Contact Site #2

During the Phase 1B Investigation, the Rail Trail Pre Contact Site #2 was represented by a total of 8 pre-contact artifacts consisting entirely of debitage, which were found in two shovel tests and several radials around them.

The testing and evaluation of the Rail Trail Pre Contact Site #2 during the Phase 2 consisted of the excavation of a total of ninety-seven 50 cm squared off shovel tests and two 1 meter squares. The Phase 2 testing and evaluation of the site examined 26.25 square meters of excavated soil to a depth of c. 43-51 centimeters (Appendix 1).

Of the ninety-seven 50 centimeter shovel tests, twenty-one yielded pre-contact artifacts, and seventy-six failed to produce any pre-contact artifacts. However, the seventy-six empty shovel tests did allow us to determine the horizontal extent of the site. After artifact totals from the shovel tests were counted, two 1-meter squares (Photographs 6 and 7) were laid out in areas that were thought to have a high density of lithic artifacts. Of the two one meter squares, only one produced pre-contact artifacts (Figure 1).

A total of 141 Pre-Contact artifacts were found during the Phase 2. These are 81 tertiary flakes, 12 primary decort. flakes, 24 secondary decort. flakes, 3 blocky frags, 1 marginal biface (Photograph 8), 2 drill bits (Photograph 8), 1 utilized flake, 10 FCR, 3 projectile points/frags. (Photograph 8), 1 biface (Photograph 8), 1 flake knife (Photograph 8), 1 denticulate/shredder (Photograph 8), for a total of 141 artifacts. When combined with the Phase 1B (3 tertiary flakes, 3 secondary decortication flakes, a biface, and a biface resharpening flake), this brings the total artifact count for this locus to 149.

Two culturally diagnostic artifacts were found during the Phase 2 Site Evaluation. These are two Sylan Stemmed Points which are diagnostic of the Sylan Lake Phase (Funk 1976), and which dates c. 2500-2000 BC (Funk 1993:157).

Interpretation: This site may be interpreted in several ways. The first is that it is a locus of activity centered around Unit 2, that has over the years been scattered to the west by plowing. Alternatively, there are two locations within the site that have higher amounts of cultural materials (a bimodal distribution) indicating two activity areas or even the possibility of two small sites. For example, eastern shovel test numbers 817, 821, and 838 all have between 3 and 5 artifacts making their densities 12-20 artifacts/square meter. At the western end, shovel tests 868, 871, and 873 have counts of 10, 6 and 14 artifacts respectively. These indicate densities in the range of 24-56 artifacts/ square meter. Between these two areas are four shovel tests that each yielded 1 artifact each, and 7 shovel tests that failed to produce any. It should be noted that shovel tests 820 and 890 are outside of what could be considered the site area, and are considered artifacts that have been moved via cultivation.

The excavation of two units yielded virtually no information in unit one, but produced seventy-nine pre-contact artifacts in Unit 2. This location is considered to be the highest density area of the site.

From a lithic viewpoint, some cherts from the Onondaga Formations were utilized, but the majority were various colors of green Normanskill Chert. All information about the Phase 2 Site Evaluation excavation, such as shovel tests, depths, soil color and texture, and artifacts found, are included here as Appendix 1. Appendix 2 is the revised OPRHP form for the Phase 2 Evaluation of the Rail Trail Pre-Contact Site.

Conclusions and Recommendations

This Phase 2 Cultural Resource Evaluation has evaluated the Rail Trail Pre-Contact Site #2 (A02719.000221). The Phase 2 Site Evaluation consisted of ninety-seven 50 cm shovel tests and two 1 meter squares that were placed in what was believed to be the highest density areas within the site. In the 26.25 square meters of excavated area there was no indication of sub-surface features such as pits or hearths. The results suggest that the Rail Trail Pre-Contact Site #2 is a small site that yields artifacts in the range of about 1- c. 80 artifacts/meter.

The Phase 2 was designed to determine if significant deposits associated with the site could be located, how old the deposits were, their horizontal extent and depth, if prehistoric features existed below the plow zone, and if the site would meet eligibility requirements for the State and/or National Registers of Historic Places. The site would be eligible under criterion D if it "has yielded, or may be likely to yield, information important in prehistory or history".

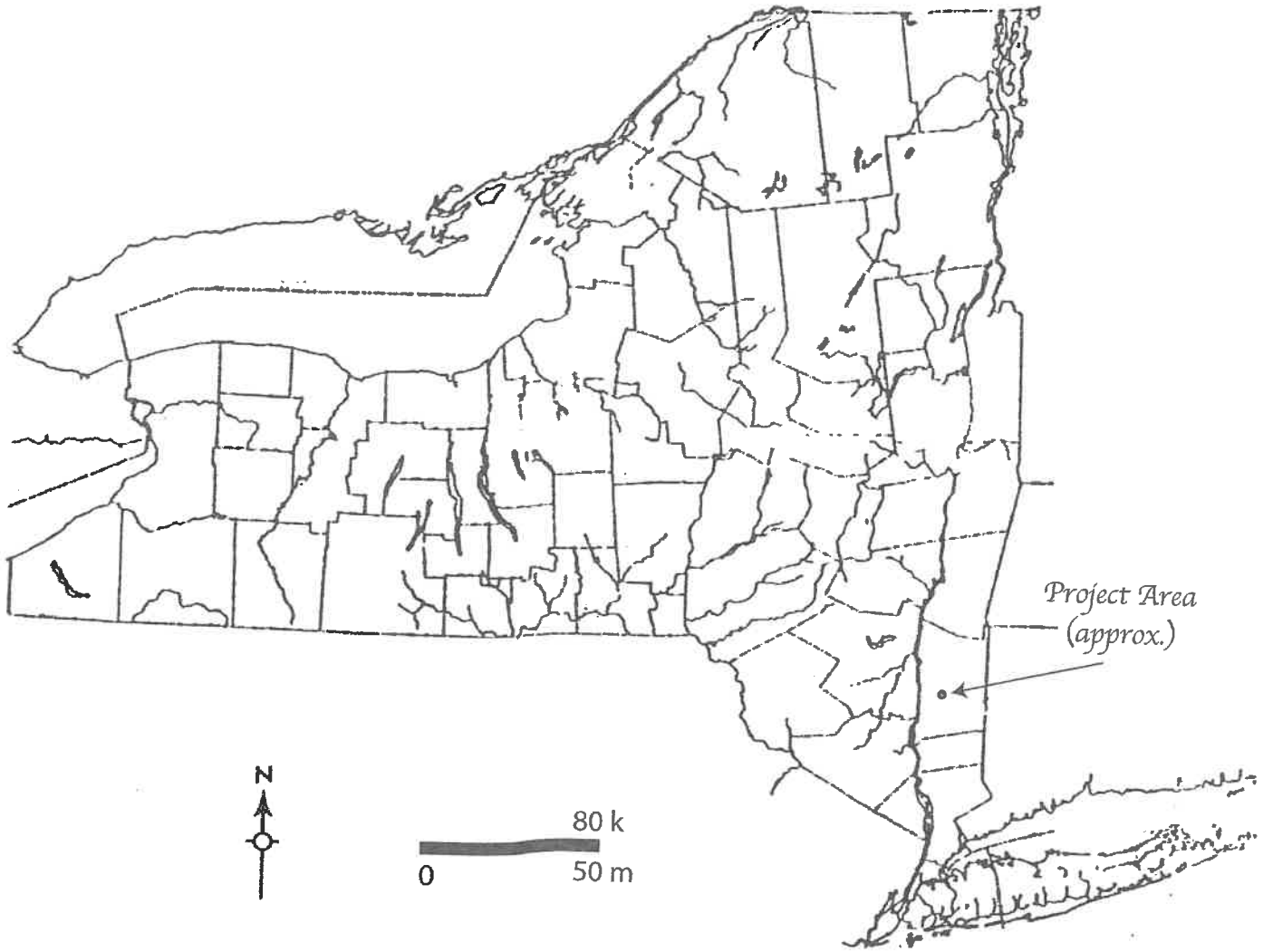
The Phase 2 Evaluation has provided information that the site does meet State and National Eligibility requirements. The site is from the Sylvan Lake Phase, a Late Archaic (c. 2500-2000 BC) Hudson Valley manifestation (Funk 1976) that is essentially coeval with the Lamoka Phase of Central New York, and the Squibnocket Phase along the coast of southern New England.

The site itself is well defined, with approximately 7.5 meters (27 feet) from original shovel test 664 to the southern edge of the site area near shovel test #838. This leaves a large buffer area to be flagged off with snow fencing for avoidance. Additionally, the high density portion of the site (Unit 1) is well away from the proposed access road and wetland mitigation, and will be protected within the wetland buffer.

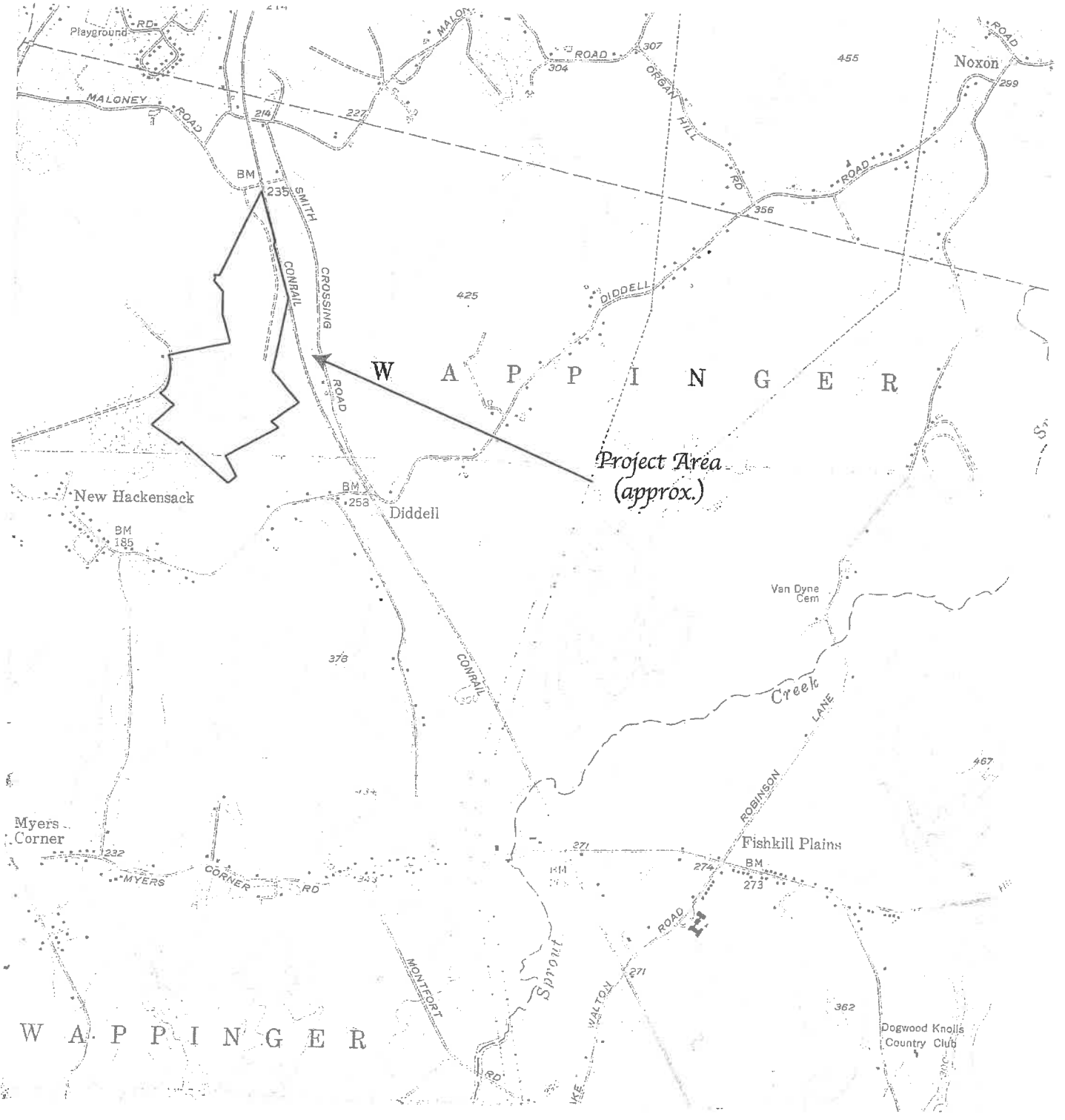
REFERENCES

- Funk, Robert E.
1976 *Recent Contributions to Hudson Valley Prehistory*. New York State
Museum Memoir No. 22. Albany
- 1993 *Archaeological Investigations In the Upper Susquehanna Valley, New York
State*. Persimmon Press, Buffalo, NY

MAPS



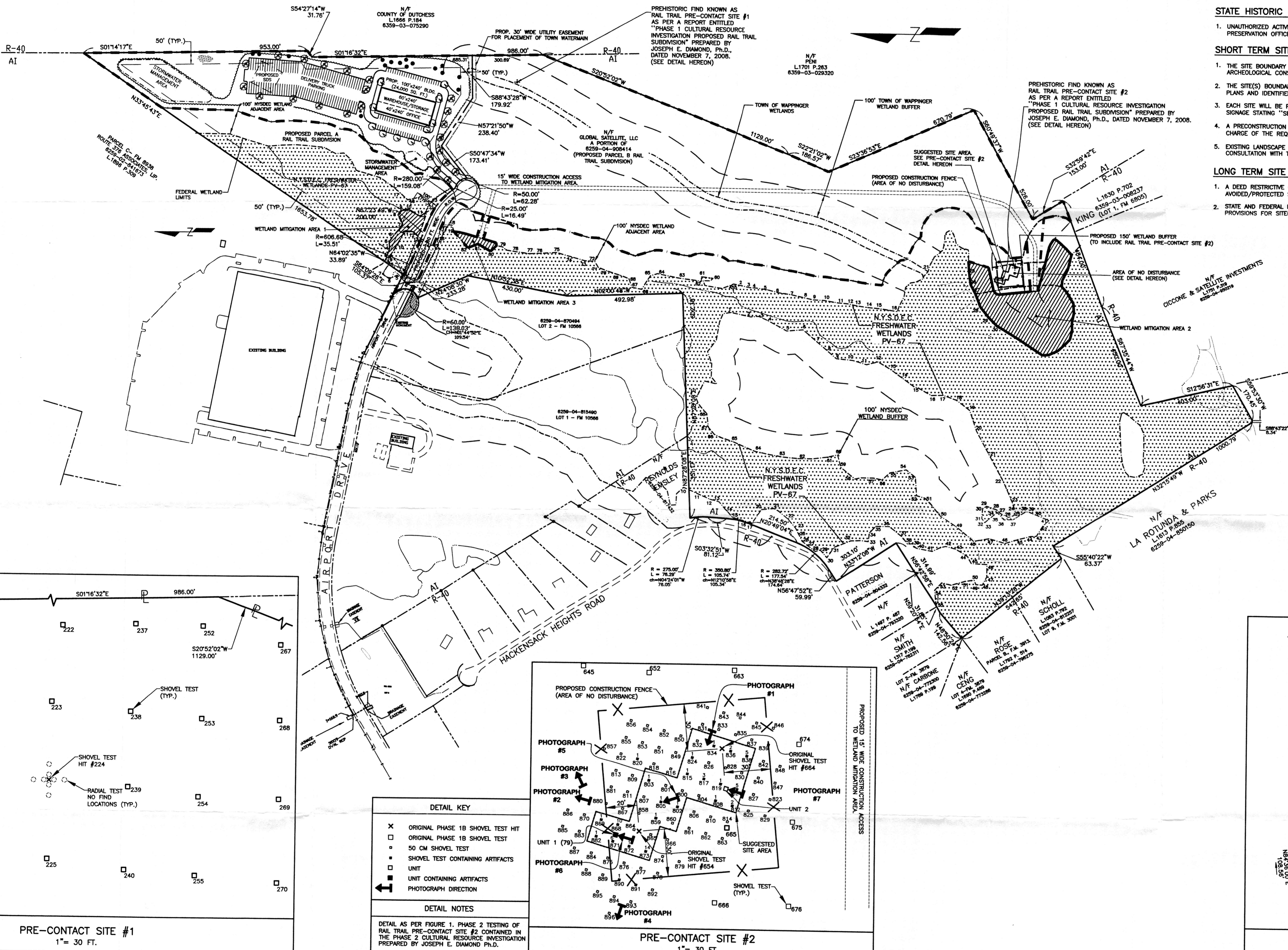
Map 1. New York State



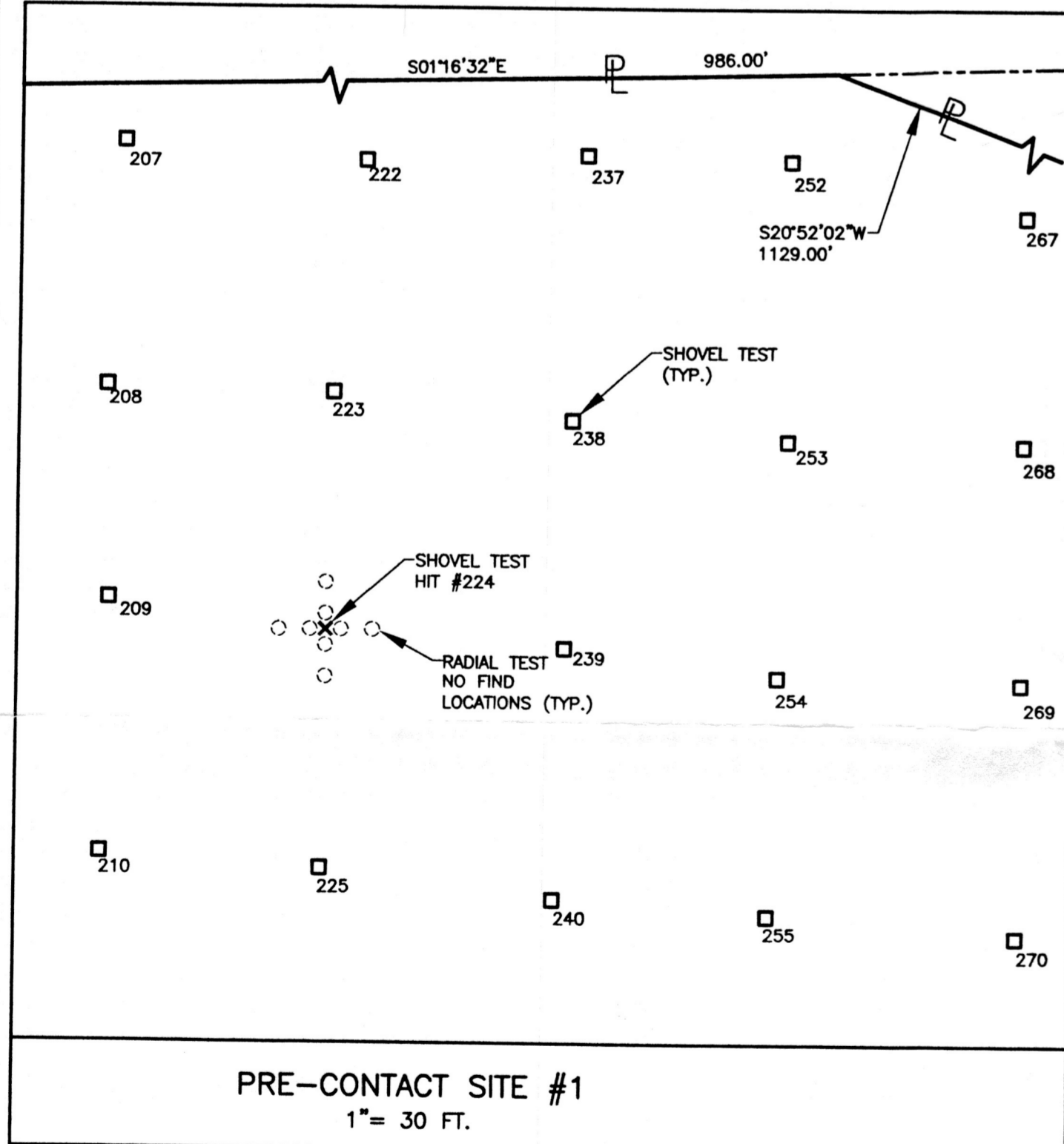
2000 ft./610 m.



Map 2. USGS Hopewell Junction & Pleasant Valley Quadrangles



- STATE HISTORIC PRESERVATION OFFICE (SHPO) NOTES:**
- UNAUTHORIZED ACTIVITIES WITHIN THE SITE BOUNDARIES WILL REQUIRE NOTIFICATION TO THE STATE HISTORIC PRESERVATION OFFICE AT (518) 237-8643.
- SHORT TERM SITE AVOIDANCE/PROTECTION:**
- THE SITE BOUNDARY (INCLUDING BUFFER) WILL BE DETERMINED IN CONSULTATION WITH THE SHPO AND THE ARCHEOLOGICAL CONSULTANT.
 - THE SITE(S) BOUNDARY (INCLUDING BUFFER) WILL BE CLEARLY DELINEATED ON THE FINAL CONSTRUCTION PLANS AND IDENTIFIED AS A "SENSITIVE AREA/NO ACCESS".
 - EACH SITE WILL BE PROTECTED WITH A TEMPORARY FENCING DURING ALL CONSTRUCTION ACTIVITIES AND SIGNAGE STATING "SENSITIVE AREA/NO ACCESS".
 - A PRECONSTRUCTION MEETING WITH THE CONSTRUCTION CONTRACTOR(S) IS REQUIRED TO NOTIFY THOSE IN CHARGE OF THE REQUIREMENTS TO AVOID/PROTECT THE SITE(S).
 - EXISTING LANDSCAPE AT THE SITE(S) WILL BE MAINTAINED. ANY PROPOSED MODIFICATIONS WILL REQUIRE CONSULTATION WITH THE SHPO.
- LONG TERM SITE AVOIDANCE/PROTECTION:**
- A DEED RESTRICTIVE COVENANT WILL BE TRANSFERRED WITH ANY FUTURE PROPERTY CONTAINING ANY AVOIDED/PROTECTED SITE(S).
 - STATE AND FEDERAL REGULATIONS THAT INCLUDE RESTRICTIONS ASSOCIATED WITH THIS PROJECT WILL INCLUDE PROVISIONS FOR SITE(S) AVOIDANCE/PROTECTION.

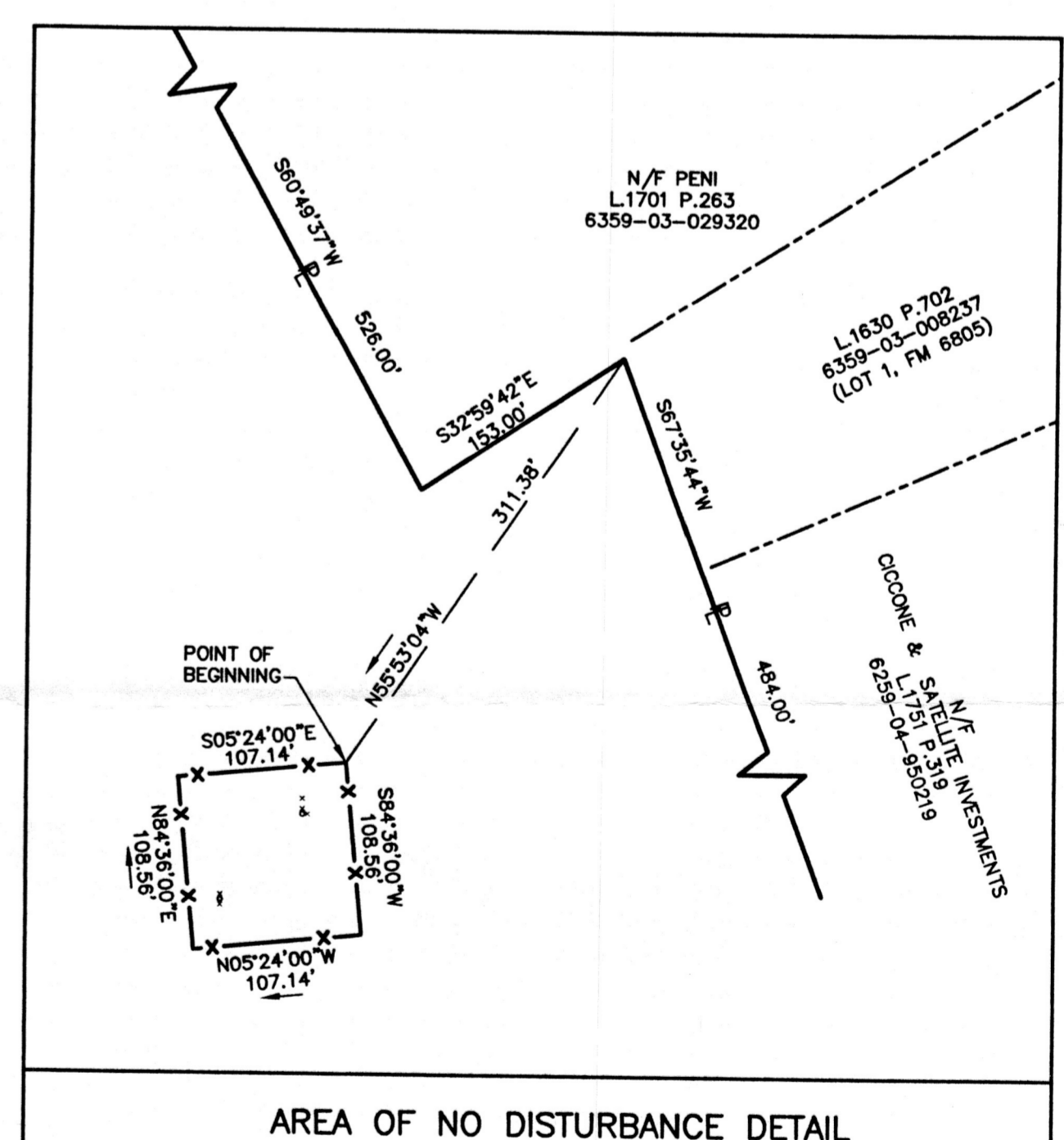
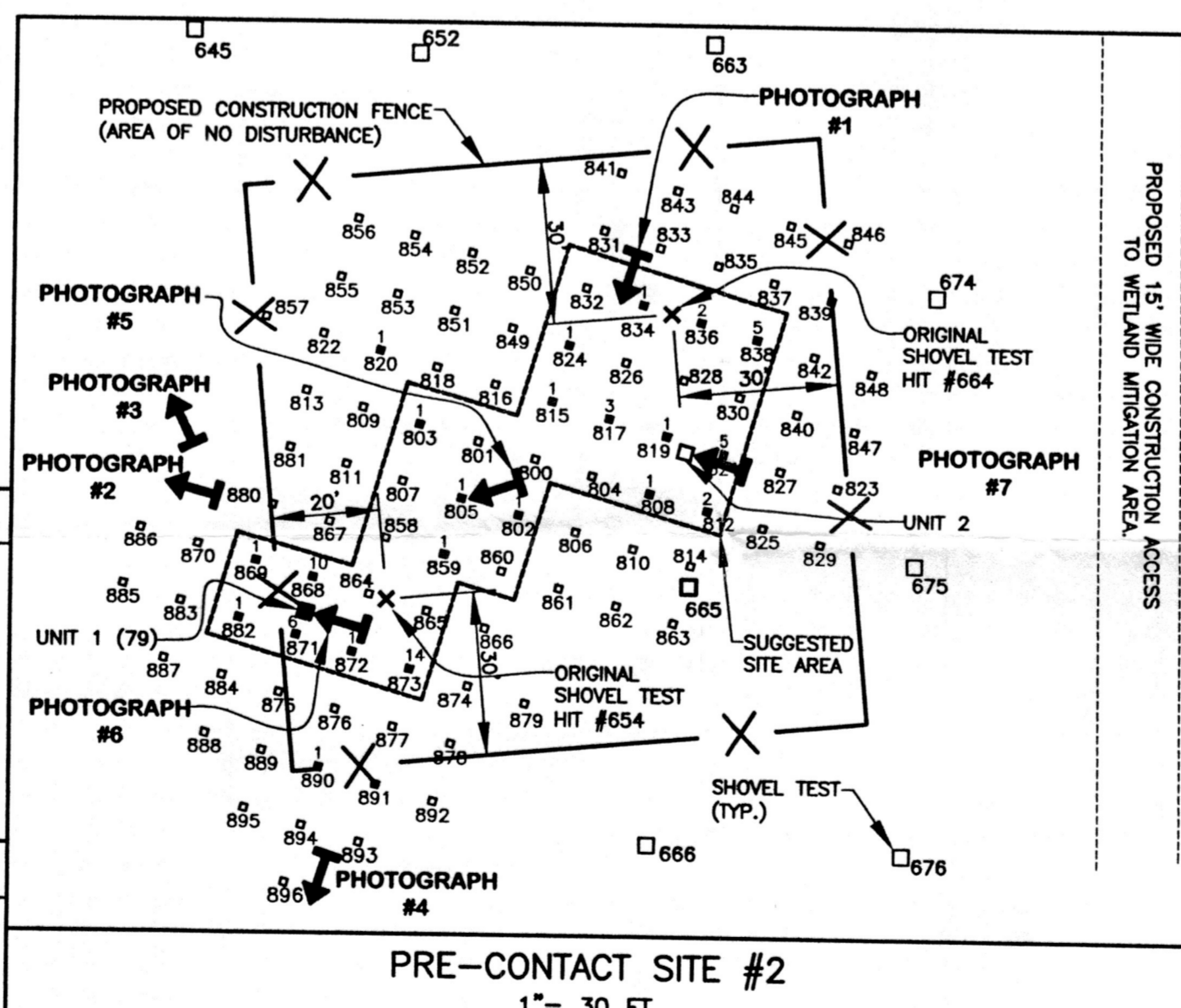


DETAIL KEY

- ✕ ORIGINAL PHASE 1B SHOVEL TEST HIT
- ORIGINAL PHASE 1B SHOVEL TEST
- 50 CM SHOVEL TEST
- ◻ SHOVEL TEST CONTAINING ARTIFACTS
- ◻ UNIT
- ◻ UNIT CONTAINING ARTIFACTS
- ➔ PHOTOGRAPH DIRECTION

DETAIL NOTES

DETAIL AS PER FIGURE 1, PHASE 2 TESTING OF RAIL TRAIL PRE-CONTACT SITE #2 CONTAINED IN THE PHASE 2 CULTURAL RESOURCE INVESTIGATION PREPARED BY JOSEPH E. DIAMOND PH.D.



REVISIONS

DATE:	DESCRIPTION:
03-09-10	ADD PHASE 2 SITE EVALUATION INFORMATION & REVISE TITLE BLOCK

LEGEND

—	PROPERTY LINE	○	WETLAND FLAG
- - -	EXISTING R.O.W./LOT LINE	- - -	N.Y.S.D.E.C., ACOE & TOWN JURISDICTIONAL WETLANDS
- - -	PROPOSED LOTLINE	- - -	N.Y.S.D.E.C. & TOWN 100' BUFFER LIMIT
- - -	EXISTING CONTOUR	- - -	N.Y.S.D.E.C. FRESHWATER WETLANDS
- - -	EXISTING WATER COURSE	▨	WETLAND MITIGATION AREA
- - -	EXISTING TREE LINE	- - -	AREA OF PROPOSED EFFECT
- - -	EXISTING PAVEMENT		



WILLIAM H. POVALL III, P.E.
N.Y.S.P.E. LICENSE #075020
25 CORPORATE PARK DR., SUITE C
HOPEWELL JUNCTION, NY 12533
TEL: (845) 897-8205
FAX: (845) 897-0042

PHASE 2 ARCHAEOLOGICAL SURVEY - MAP 3
AVOIDANCE PLAN FOR
RAIL TRAIL SUBDIVISION
TOWN OF WAPPINGER
DUTCHESS COUNTY, NEW YORK

JOB #: 0402
DATE: 07-13-09
SCALE: 1"=200'
AP-1
SHEET 1 OF 1

PHOTOGRAPHS



Photograph 1: Overall view from near ST# 834. View west.



Photograph 2. View north from roadway.



Photograph 3: View northeast up old bulldozed roadway.



Photograph 4: View west from near ST# 896, with well head in right rear of photograph.



Photograph 5: Excavation of ST # 805. View north.



Photograph 6: Unit 1 at conclusion of excavation. View north.



Photograph 7: Unit 2 at conclusion of excavation. View north.



Photograph 8: Artifacts from Phase 2. Upper row, left to right; drill, ST 808, Level 1; projectile point, ST# 871, Level 1; projectile point, ST# 882, Level 1; marginal biface, ST# 805, Level 1; biface, ST# 873, Level 1. Bottom row, left to right. Flake knife, projectile point frag., denticulate, all from Unit 1, Level 1.

FIGURES

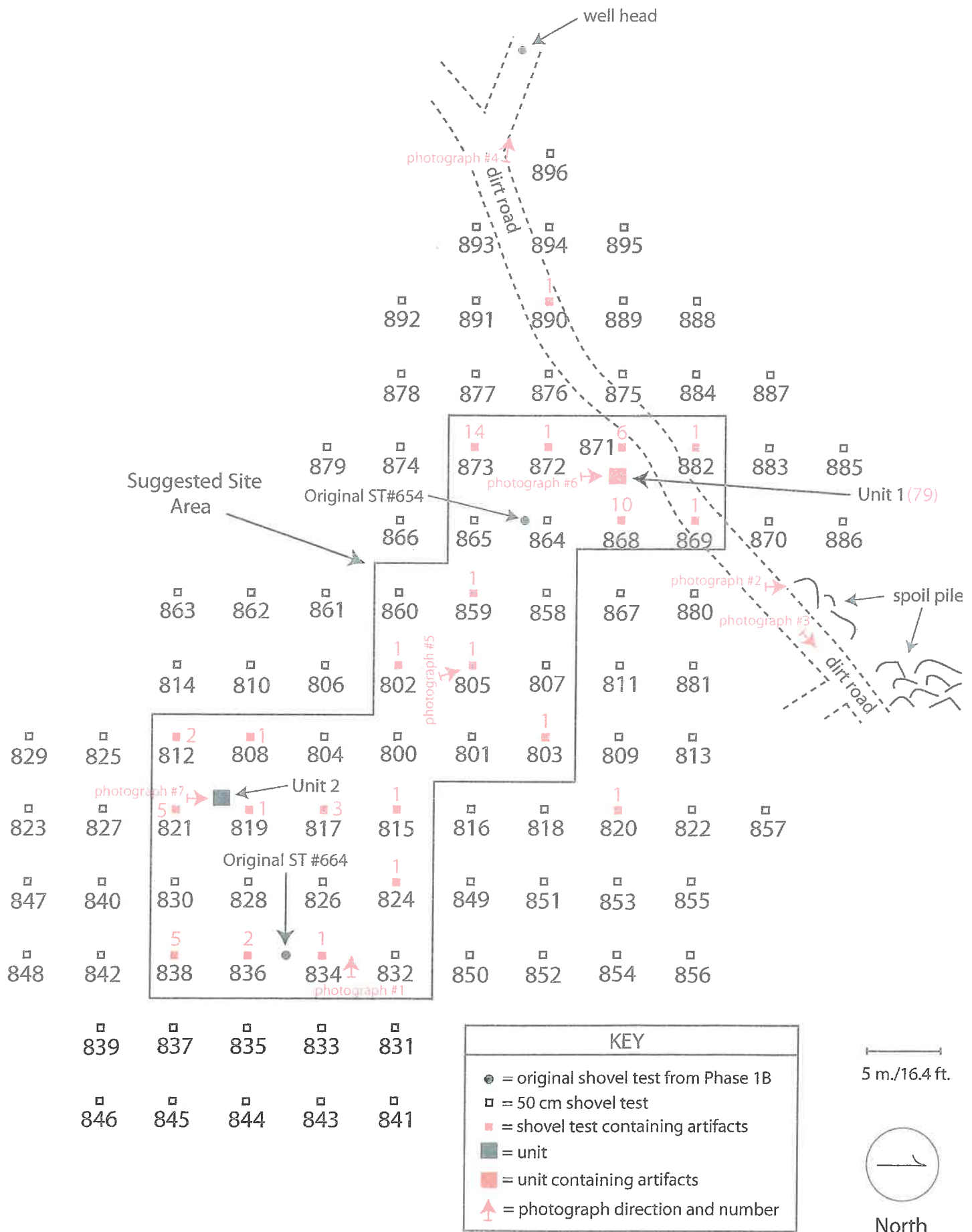


Figure 1. Phase 2 testing of Rail Trail Pre-Contact Site #2 (A02719.000221)

APPENDICES

APPENDIX 1

	Unit	Depth	Soil Description	Q	Artifacts	Material	Wt.(g)
800		0-21	brown silty loam w/ gravels		None		
		21-42	yel. brn. silt w/ gravels		None		
801		0-21	brown silty loam w/ gravels		None		
		21-35	yel. brn. silt w/ gravels		None		
802		0-24	brown silty loam w/ gravels	1	tertiary flake	green Norm. chert	4.2
		24-47	yel. brn. silt w/ gravels		None		
803		0-21	brown silty loam w/ gravels	1	tertiary flake	gray/black chert	0.6
		21-35	yel. brn. silt w/ gravels		None		
804		0-25	brown silty loam w/ gravels		None		
		25-46	yel. brn. silt w/ gravels		None		
805		0-22	brown silty loam w/ gravels	1	marg. biface/blank	mottled Onondaga chert	22.3
		22-37	yel. brn. silt w/ gravels		None		
806		0-26	brown silty loam w/ gravels		None		
		26-47	yel. brn. silt w/ gravels		None		
807		0-22	brown silty loam w/ gravels		None		
		22-37	yel. brn. silt w/ gravels		None		
808		0-30	brown silty loam w/ gravels	1	drill bit	banded green Norm. chert	2.8
		30-50	yel. brn. silt w/ gravels		None		
809		0-23	brown silty loam w/ gravels		None		
		23-38	yel. brn. silt w/ gravels		None		
810		0-29	brown silty loam w/ gravels		None		
		29-51	yel. brn. silt w/ gravels		None		
811		0-26	brown silty loam w/ gravels		None		
		26-40	yel. brn. silt w/ gravels		None		
812		0-23	brown silty loam w/ gravels	2	tertiary flakes	light green Norm. chert	3
		23-44	yel. brn. silt w/ gravels		None		
813		0-20	brown silty loam w/ gravels		None		
		20-40	yel. brn. silt w/ gravels		None		
814		0-24	brown silty loam w/ gravels		None		
		24-46	yel. brn. silt w/ gravels		None		
815		0-28	brown silty loam w/ gravels	1	tertiary flake	light green Norm. chert	2.4
		28-50	yel. brn. silt w/ gravels		None		
816		0-22	brown silty loam w/ gravels		None		
		22-43	yel. brn. silt w/ gravels		None		
817		0-27	brown silty loam w/ gravels	1	tertiary flake	light green Norm. chert	4.4
				1	fragmented drill bit	light green Norm. chert	0.6
				1	primary decort. flake	black chert	1.4
		27-47	yel. brn. silt w/ gravels		None		
818		0-26	brown silty loam w/ gravels		None		
		26-46	yel. brn. silt w/ gravels		None		
819		0-26	brown silty loam w/ gravels	1	tertiary flake	green Norm. chert	0.1
		26-45	yel. brn. silt w/ gravels		None		
820		0-29	brown silty loam w/ gravels	1	tertiary flake	green Norm. chert	0.9
		29-49	yel. brn. silt w/ gravels		None		
821		0-26	brown silty loam w/ gravels	3	tertiary flake	green Norm. chert	2.6
				2	secondary decort. flake	green Norm. chert	4.6
		26-50	yel. brn. silt w/ gravels		None		
822		0-33	brown silty loam w/ gravels		None		
		33-53	yel. brn. silt w/ gravels		None		
823		0-18	brown silty loam w/ gravels		None		

Appendix 1. Phase 2 Shovel tests, Units, soils and artifacts.

ST	Unit	Depth	Soil Description	Q	Artifacts	Material	Wt.(g)
		18-36	yel. brn. silt w/ gravels		None		
824		0-30	brown silty loam w/ gravels	1	tertiary flake	black chert	0.2
		30-54	yel. brn. silt w/ gravels		None		
825		0-26	brown silty loam w/ gravels		None		
		26-41	yel. brn. silt w/ gravels		None		
826		0-26	brown silty loam w/ gravels		None		
		26-46	yel. brn. silt w/ gravels		None		
827		0-25	brown silty loam w/ gravels		None		
		25-40	yel. brn. silt w/ gravels		None		
828		0-24	brown silty loam w/ gravels		None		
		24-44	yel. brn. silt w/ gravels		None		
829		0-31	brown silty loam w/ gravels		None		
		31-51	yel. brn. silt w/ gravels		None		
830		0-21	brown silty loam w/ gravels		None		
		21-42	yel. brn. silt w/ gravels		None		
831		0-20	brown silty loam w/ gravels		None		
		20-40	yel. brn. silt w/ gravels		None		
832		0-23	brown silty loam w/ gravels		None		
		23-43	yel. brn. silt w/ gravels		None		
833		0-22	brown silty loam w/ gravels		None		
		22-40	yel. brn. silt w/ gravels		None		
834		0-27	brown silty loam w/ gravels	1	primary decort. flake	green Norm. chert	5.2
		27-48	yel. brn. silt w/ gravels		None		
835		0-24	brown silty loam w/ gravels		None		
		24-40	yel. brn. silt w/ gravels		None		
836		0-31	brown silty loam w/ gravels	1	primary decort. flake	black Onondaga chert	1.2
				1	tertiary flake	black chert	0.1
		31-50	yel. brn. silt w/ gravels		None		
837		0-27	brown silty loam w/ gravels		None		
		27-47	yel. brn. silt w/ gravels		None		
838		0-27	brown silty loam w/ gravels	1	primary decort. flake	gray chert	3
				4	tertiary flakes	black chert	8.1
		27-48	yel. brn. silt w/ gravels		None		
839		0-28	brown silty loam w/ gravels		None		
		28-43	yel. brn. silt w/ gravels		None		
840		0-29	brown silty loam w/ gravels		None		
		29-50	yel. brn. silt w/ gravels		None		
841		0-23	brown silty loam w/ gravels		None		
		23-43	yel. brn. silt w/ gravels		None		
842		0-22	brown silty loam w/ gravels		None		
		22-43	yel. brn. silt w/ gravels		None		
843		0-23	brown silty loam w/ gravels		None		
		23-42	yel. brn. silt w/ gravels		None		
844		0-30	brown silty loam w/ gravels		None		
		30-50	yel. brn. silt w/ gravels		None		
845		0-33	brown silty loam w/ gravels		None		
		33-50	yel. brn. silt w/ gravels		None		
846		0-23	brown silty loam w/ gravels		None		
		23-44	yel. brn. silt w/ gravels		None		
847		0-24	brown silty loam w/ gravels		None		

Appendix 1. Phase 2 Shovel tests, Units, soils and artifacts.

§	Unit	Depth	Soil Description	Q	Artifacts	Material	Wt.(g)
		24-41	yel. brn. silt w/ gravels		None		
848		0-24	brown silty loam w/ gravels		None		
		24-46	yel. brn. silt w/ gravels		None		
849		0-29	brown silty loam w/ gravels		None		
		29-50	yel. brn. silt w/ gravels		None		
850		0-23	brown silty loam w/ gravels		None		
		23-43	yel. brn. silt w/ gravels		None		
851		0-24	brown silty loam w/ gravels		None		
		24-46	yel. brn. silt w/ gravels		None		
852		0-28	brown silty loam w/ gravels		None		
		28-50	yel. brn. silt w/ gravels		None		
853		0-33	brown silty loam w/ gravels		None		
		33-48	yel. brn. silt w/ gravels		None		
854		0-29	brown silty loam w/ gravels		None		
		29-50	yel. brn. silt w/ gravels		None		
855		0-25	brown silty loam w/ gravels		None		
		25-44	yel. brn. silt w/ gravels		None		
856		0-26	brown silty loam w/ gravels		None		
		26-48	yel. brn. silt w/ gravels		None		
857		0-30	brown silty loam w/ gravels		None		
		30-49	yel. brn. silt w/ gravels		None		
858		0-23	brown silty loam w/ gravels		None		
		23-44	yel. brn. silt w/ gravels		None		
85 ^c		0-27	brown silty loam w/ gravels	1	utilized flake	gray/brown chert	0.9
		27-45	yel. brn. silt w/ gravels		None		
860		0-25/rock	brown silty loam w/ gravels		None		
861		0-31	brown silty loam w/ gravels		None		
		31-48	yel. brn. silt w/ gravels		None		
862		0-30	brown silty loam w/ gravels		None		
		30-51	yel. brn. silt w/ gravels		None		
863		0-24	brown silty loam w/ gravels		None		
		24-41	yel. brn. silt w/ gravels		None		
864		0-25	brown silty loam w/ gravels		None		
		25-46	yel. brn. silt w/ gravels		None		
865		0-26	brown silty loam w/ gravels		None		
		26-50	yel. brn. silt w/ gravels		None		
866		0-25	brown silty loam w/ gravels		None		
		25-46	yel. brn. silt w/ gravels		None		
867		0-23	brown silty loam w/ gravels		None		
		23-40	yel. brn. silt w/ gravels		None		
868		0-23	brown silty loam w/ gravels	1	fcr	sandstone	223.3
				1	fcr	sandstone	217.8
				3	secondary decort. flake	green Norm. chert	2.7
				4	tertiary flake	green Norm. chert	1.9
				1	tertiary flake	brown chert	0.6
		23-45	yel. brn. silt w/ gravels		None		
869		0-18	brown silty loam w/ gravels	1	tertiary flake	green Norm. chert	0.4
		18-33	yel. brn. silt w/ gravels		None		
870		0-17	brown silty loam w/ gravels		None		
		17-37	yel. brn. silt w/ gravels		None		

Appendix 1. Phase 2 Shovel tests, Units, soils and artifacts.

ST	Unit	Depth	Soil Description	Q	Artifacts	Material	Wt.(g)
871		0-20	brown silty loam w/ gravels	1	for	gray quartzite	114.7
				1	secondary decort. flake	green Norm. chert	10.4
				1	tertiary flake	mottled Onondaga chert	127
				1	secondary decort. flake	green Norm. chert	1.4
				1	tertiary flake	green Norm. chert	1.2
				1	projectile point frag.	green Norm. chert	5.7
					Sylvan Stemmed		
					tip broke off		
		20-40	yel. brn. silt w/ gravels		None		
872		0-25	brown silty loam w/ gravels	1	tertiary flake	black chert	0.9
		25-47	yel. brn. silt w/ gravels		None		
873		0-20	brown silty loam w/ gravels	1	primary decort. flake	mottled green Norm. chert	22.1
				5	tertiary flakes	green Norm. chert	3.1
				1	secondary decort. flake	black chert	2
				1	biface	mottled green Norm. chert	31.6
		20-55	yel. brn. silt w/ gravels	1	primary decort. flake	green Norm. chert w/	6
						cobble cortex	
				2	secondary decort. flake	green Norm. chert	7.2
				1	tertiary flake	green Norm. chert	0.3
				2	tertiary flakes	gray/brown chert	1.9
874		0-26	brown silty loam w/ gravels		None		
		26-47	yel. brn. silt w/ gravels		None		
875		0-22	brown silty loam w/ gravels		None		
		22-42	yel. brn. silt w/ gravels		None		
876		0-29	brown silty loam w/ gravels		None		
		29-50	yel. brn. silt w/ gravels		None		
877		0-23	brown silty loam w/ gravels		None		
		23-45	yel. brn. silt w/ gravels		None		
878		0-27	brown silty loam w/ gravels		None		
		27-47	yel. brn. silt w/ gravels		None		
879		0-25	brown silty loam w/ gravels		None		
		25-43	yel. brn. silt w/ gravels		None		
880		0-21	brown silty loam w/ gravels		None		
		21-42	yel. brn. silt w/ gravels		None		
881		0-27	brown silty loam w/ gravels		None		
		27-46	yel. brn. silt w/ gravels		None		
882		0-23	brown silty loam w/ gravels	1	projectile point	green Norm. chert	3.1
					Sylvan Stemmed		
		23-44	yel. brn. silt w/ gravels		None		
883		0-27	brown silty loam w/ gravels		None		
		27-48	yel. brn. silt w/ gravels		None		
884		0-27	brown silty loam w/ gravels		None		
		27-47	yel. brn. silt w/ gravels		None		
885		0-22	brown silty loam w/ gravels		None		
		22-37	yel. brn. silt w/ gravels		None		
886		0-23	brown silty loam w/ gravels		None		
		23-44	yel. brn. silt w/ gravels		None		
887		0-28	brown silty loam w/ gravels		None		
		28-50	yel. brn. silt w/ gravels		None		
888		0-20	brown silty loam w/ gravels		None		

Appendix 1. Phase 2 Shovel tests, Units, soils and artifacts.

ST	Unit	Depth	Soil Description	Q	Artifacts	Material	Wt.(g)
		20-40	yel. brn. silt w/ gravels		None		
889		0-22	brown silty loam w/ gravels		None		
		22-44	yel. brn. silt w/ gravels		None		
890		0-20	brown silty loam w/ gravels	1	primary decort. flake	green Norm. chert	139.2
		20-42	yel. brn. silt w/ gravels		None		
891		0-26	brown silty loam w/ gravels		None		
		26-48	yel. brn. silt w/ gravels		None		
892		0-22	brown silty loam w/ gravels		None		
		22-43	yel. brn. silt w/ gravels		None		
893		0-22	brown silty loam w/ gravels		None		
		22-42	yel. brn. silt w/ gravels		None		
894		0-35	brown silty loam w/ gravels		None		
		35-55	yel. brn. silt w/ gravels		None		
895		0-25	brown silty loam w/ gravels		None		
		25-45	yel. brn. silt w/ gravels		None		
896		0-23	brown silty loam w/ gravels		None		
		23-44	yel. brn. silt w/ gravels		None		
	1	0-10	brown silty loam w/ gravels	1	fcr	quartzite	63.7
				1	fcr	quartzite	96.6
				1	fcr	quartzite	57.7
				4	fcr	sandstone	178.4
				1	flake knife	gray quartzite	106.9
				1	projectile point frag.	green Norm. chert	4
				2	tertiary flakes	gray quartzite	8.2
				2	primary decort. flakes	green Norm. chert w/ cobble exterior	83
				1	primary decort. flake	brown chert w/ cobble ext.	17.2
				3	blockys	green Norm. chert	61.7
				11	secondary decort. flakes	green Norm. chert	24.5
				1	denticulate/shredder	green Norm. chert	3.6
				26	tertiary flakes	greenish black Norm. chert	16.6
		10-36	yel. brn. silt w/ gravels	1	primary decort. flake	green Norm. chert w/ cobble cortex	9.5
				1	primary decort. flake	green Norm. chert	2.1
				3	secondary decort. flakes	green Norm. chert	34.9
				17	tertiary flakes	green Norm. chert	27.2
				1	tertiary flake	brown chert	1.5
				1	tertiary flake	gray quartzite	5.3
	2	0-14	brown silty loam w/ gravels		None		
		14-35	yel. brn. silt w/ gravels		None		
			Total artifacts=141				

Appendix 1. Phase 2 Shovel tests, Units, soils and artifacts.

APPENDIX 2

**NEW YORK STATE OFFICE OF PARKS RECREATION AND HISTORIC
PRESERVATION PREHISTORIC RESOURCE INVENTORY FORM**

Office Use Only: USN_ **A02719.000221**

1. IDENTIFICATION: Project Identifier: **Rail Trail Subdivision** Date: **2/ 22/10**

**Prepared By: Joseph E. Diamond, Archaeological Consultant, 290 Old Route 209,
Hurley, NY 12443. (845)338-0091**

Site Identifier: **Rail Trail Subdivision Pre-Contact site, Locus 2 (A02719.000221)**

2. County: **Dutchess** Town: **Wappinger** Hamlet:

3. Present Owner: **Global Satellite , LLC**

4. SITE DESCRIPTION:

Surface Evidence: Buried Evidence: **X**

LOCATION:

Previously Cultivated: **X** Woodland: **X** Upland: **X**

Soil Drainage: excellent: **X**

Slope: flat: **X** gentle:

Distance to nearest water: **200 ft** Elevation: **c. 212-216 ft AMSL**

5. Phase 1B Site Investigation: **8 artifacts found in 7 shovel tests (654, 654B, 654D,
664, 664B, 664C, 664F)**

Investigator: **J. Diamond** Present repository of Materials: **J. Diamond**

Manuscript or Published Reports: **Joseph E. Diamond Ph.D. Phase 1 Cultural
Resource Investigation, Rail Trail Subdivision, Town of Wappinger, Dutchess
County NY. 11/7/08**

Phase 2: **97 50 cm shovel tests and 2 one meter squares. Total area excavated 26.25 sq.
meters.**

**Joseph E. Diamond Ph.D. Phase 2 Cultural Resource Evaluation of Pre-Contact
Site A02719.000221, Rail Trail Subdivision, Town of Wappinger, Dutchess County
NY. 2/22/10**

6. Components/ Cultural Affiliations/ Dates: **Sylvan Lake Phase C. 2500-2000 BC.**

7. Total List of Material Remains From Phase 1B: **3 tertiary flakes, 3 secondary
decortication flakes, a biface, and a biface resharpening flake (N=8). Materials**

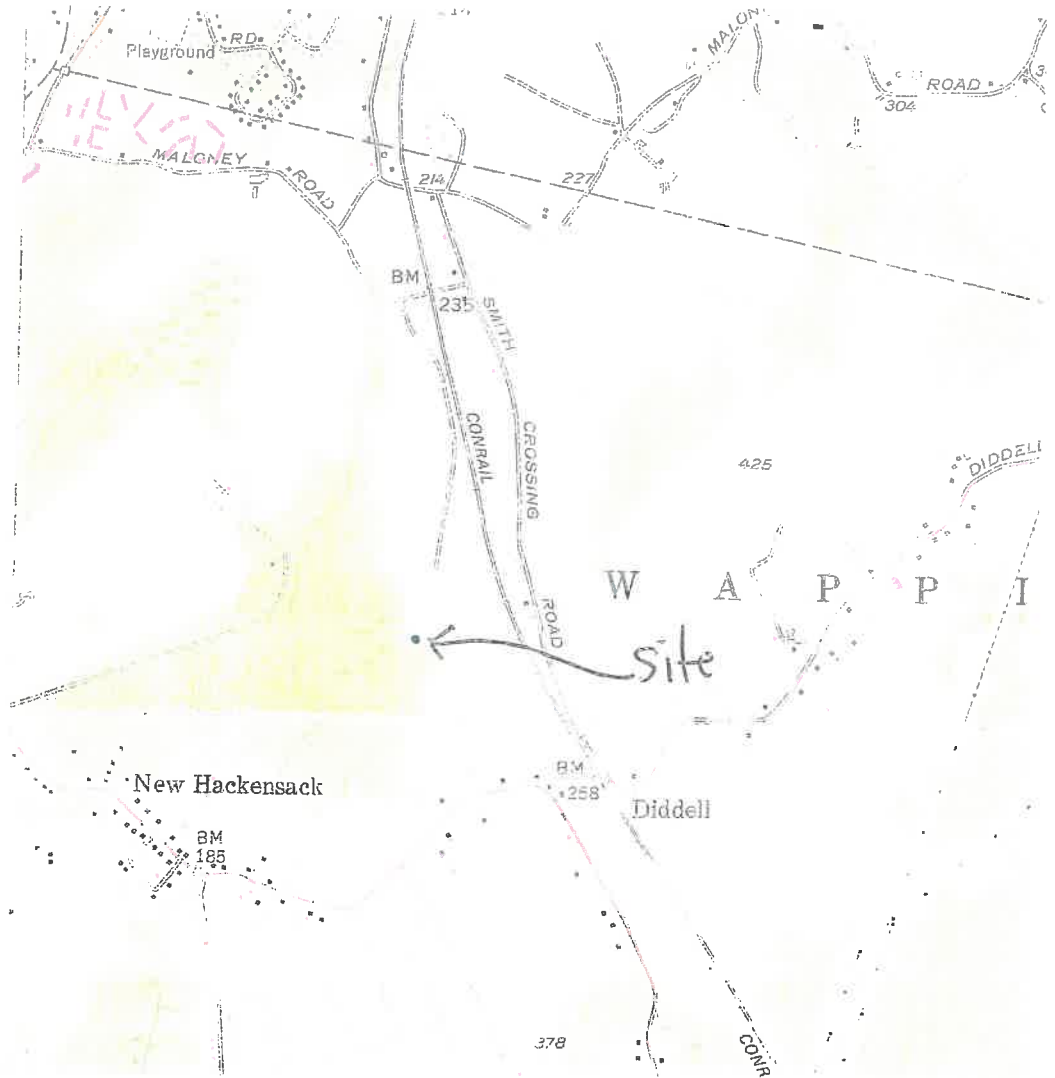
include green Normanskill chert, mottled grey chert, black chert, dark grey chert and white quartzite.

Total list of material Remains from Phase 2: 81 tertiary flakes, 12 primary decort. flakes, 24 secondary decort. flakes, 3 blocky frags, 1 marginal biface, 2 drill bits, 1 utilized flake, 10 FCR, 3 projectile points/frags., 1 biface, 1 flake knife, 1 denticulate/shredder (N=141).

8. Map references: Quadrangle: **Pleasant Valley Quadrangle**

UTM Coordinates: _____

9. Photography:



Prepared By: Joseph E. Diamond, Archaeological Consultant, 290 Old Route 209,
Hurley, NY 12443. (845) 338-0091