Full Environmental Assessment Form Part 1

DELAWARE RIVER SOLAR, LLC

Dryden Road Solar Farm

Dryden Road
Town of Dryden
Tompkins County, New York

July 10, 2017
Last Revised January 26, 2018

THE Chazen COMPANIES®
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Engineers
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Prepared for:
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New York, NY 10003

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PROJECT DESCRIPTION

The Chazen Companies
July 10, 2017
Last Revised January 26, 2018

PROJECT DESCRIPTION

The Applicant, Delaware River Solar, LLC, is proposing the construction of a new solar energy farm (ground-mounted photovoltaic system) on a 114.79-acre parcel located on Dryden Road in the Town of Dryden, Tompkins County, NY. The proposed solar farm consists of two photovoltaic facilities totaling 3.3MW AC. The 114.79-acre parcel has road frontage on Dryden Road (NYS Route 13) and Ferguson Road, and is identified on the Town of Dryden Tax Map as Section 47 Block 1 Lot 7.3. The project will affect 26.3± acres of the parcel and result in an increase in impervious surface of 0.02 acre. Access to the site will be via an existing drive from Ferguson Road. The NYSDEC has determined that solar panels do not constitute impervious surface for stormwater management purposes. The project is a Type I Action under the State Environmental Quality Review act (SEQRA), and a Full Environmental Assessment Form (FEAF) Part 1 has been prepared. Please refer to the Topographic Survey and Site Plan in Attachment A.

For the purpose of this FEAF, the project area is defined as the approximately 26.3-acre area affected by the project. The actual physical ground disturbance is approximately 7.1± acres and is limited to the poles on which the panels are located, power line trenching, inverter pad, access drive, and construction entrance.

The project parcel is situated in the Rural Agriculture zoning district, according to the Town of Dryden Zoning Map. The Town of Dryden adopted a new Section 1312 of the zoning law entitled *Solar Energy Systems* in February 2017. Sub-section F of this new law pertains to Ground-Mounted Large-Scale Solar Energy Systems, and indicates that a ground-mounted large-scale solar energy system is a permitted principal and accessory use in the Rural Agriculture zoning district through the issuance of a Special Use Permit by the Town Board with prior review and recommendations on the site plan by the Planning Board, subject to specific requirements for this use. The proposed project meets these requirements, one of which is that the solar energy system not be constructed over prime farmland unless approved by the Town Board in conjunction with the Special Use Permit. It should be noted that the soils in the project area are considered farmland of statewide importance by the US Department of Agriculture Natural Resource Conservation Service (USDA NRCS); however, prime farmland is a separate category, and the site soils are not prime farmland. Approximately 59 acres of the 114.79-acre parcel, and 7.47 acres of the 26.3-acre project site, consist of soils in Soil Groups 1-4. Impacts to these soils are temporary because the site can be returned to agricultural use following decommissioning of the proposed solar energy farm.

There are no mapped wetlands or streams within or adjacent to the project site. Field investigation by North Country Ecological Services, Inc., confirms there is a federally-regulated wetland present within the project area, which will not be disturbed for the proposed project. A small stream is located parallel to the eastern property line; however, this stream is not in the area of the project and will not be impacted by the proposed project.

The FEAF was completed utilizing the NYSDEC EAF Mapper. The EAF Mapper tool sometimes indicates limited availability for certain digital data. Endnotes are provided for certain responses to provide clarification of or reference used for the response.

FULL ENVIRONMENTAL ASSESSMENT FORM (FEAF) PART 1 WITH ENDNOTES

The Chazen Companies
July 10, 2017
Last Revised January 26, 2018

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

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

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

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

A. Project and Sponsor Information.

Name of Action or Project: Delaware River Solar, LLC, Dryden Road Solar Farm		
Project Location (describe, and attach a general location map): Dryden Road, Town of Dryden, Tompkins County, NY; portion of Tax Parcel Section 47 Block 1 Lot 7.3; refer to Figures 1 and 2.		
Brief Description of Proposed Action (include purpose or need): Construction of a new 3.3MW AC solar energy farm (ground-mounted photovoltaic system), on a portion of a 114.79 acre parcel located on Dryden Road in the Town of Dryden, Tompkins County, NY. The project is located on the south side of Dryden Road, and will affect approximately 26.3+/- acres (Endnote 1) with in an increase in impervious surface of 0.02 acres. The actual physical ground disturbance is approximately 7.1 acres, and is limited to the installation of the poles on which the panels are located, power line trenching, inverter pad, construction entrance, and access drive improvements. Please refer to Topographic Survey and Site Plan in Attachment A.		
Name of Applicant/Sponsor: Delaware River Solar, LLC (Peter Dolgos)	Telephone: 646-998-6495 E-Mail: peter.dolgos@delawareriversolar.com	
Address: 33 Irving Place Suite 1090		
City/PO: New York	State: NY	Zip Code: 10003
Project Contact (if not same as sponsor; give name and title/role): Same as Applicant	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Evan J. and Brenda T. Carpenter	Telephone: 607-229-0647 E-Mail:	
Address: 2285 Dryden Road		
City/PO: Dryden	State: NY	Zip Code: 13053

B. Government Approvals

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

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees ☑Yes ☐No	Special Use Permit	
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Recommendations to TB and site plan approval	Jun 2017
c. City Council, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☐Yes ☑No		
e. County agencies ☑Yes ☐No	Tompkins County Planning 239m review; Tompkins County IDA Funding	To be determined
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	NYSDOT entrance permit, NYSDEC GP-0-15-002; NYSERDA	To be determined
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐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? Refer to Endnote 2. ☑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):

Tomkins County Agriculture and Farmland Protection Plan dated June 2015. According to the High Priority Farmland Protection Areas Map on page 76, the project area is not located within a High Priority Farmland Protection Area.

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?
Rural Agriculture 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? Dryden School District

b. What police or other public protection forces serve the project site?
Tomkins County Sheriff's Department and NYS Police

c. Which fire protection and emergency medical services serve the project site?
Dryden Fire Protection District and Dryden Ambulance

d. What parks serve the project site?
NA

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)? Utility

b. a. Total acreage of the site of the proposed action? 114.7 acres Refer to Endnote 1.
b. Total acreage to be physically disturbed? 7.1 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 29.77 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 solar energy generation and agricultural use
ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? 3
iv. Minimum and maximum proposed lot sizes? Minimum 11.32 Maximum 85.02

e. Will proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 3 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.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

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

If Yes,

Solar farm inverter/transformer stations. Project also includes installation of 13,100 post-mounted photovoltaic modules in 468 tables.

i. Total number of structures 2

ii. Dimensions (in feet) of largest proposed structure: 8' height; 25' width; and 25' length

iii. Approximate extent of building space to be heated or cooled: 0 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ 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? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐ Yes ☑ No

If Yes:

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

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

- 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? Refer to Figure 3 and Endnote 3. ☐ 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):

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:

_____

_____

_____

_____

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

If Yes, describe: _____

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

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- 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: _____ gallons/day

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

If Yes:

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

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

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

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

If, Yes:

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

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

_____

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

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

If Yes:

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

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

_____

_____

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

If Yes:

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

- Do existing sewer lines serve the project site? ☐Yes ☐No
- Will 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):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑Yes ☐No

The proposed project results in an increase in impervious surface of only 0.02 acre. Refer to Endnote 4.

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 0.0 acres (impervious surface)

_____ Square feet or 1.14 acres (parcel size)

ii. Describe types of new point sources. N/A

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 surface water

- If to surface waters, identify receiving water bodies or wetlands: on-site delineated wetlands
- Will stormwater runoff flow to adjacent properties? ☑Yes ☐No

iv. Does 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)

mobile sources during construction only, which include construction and delivery vehicles.

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

NA

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

NA

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 (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (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 semi-trailer truck trips/day: _____

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 ½ 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: _____

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

_____

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.

i. During Construction:

- Monday - Friday: 7:00 am to 7:00 pm
- Saturday: NA
- Sunday: NA
- Holidays: NA

ii. During Operations: A technician will visit the site approximately once per month for maintenance.

- Monday - Friday: 24 hours
- Saturday: 24 hours
- Sunday: 24 hours
- Holidays: 24 hours

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:

Temporary noise the exceeds local ambient noise levels may occur during construction of the facility. Construction activities will be limited to 7:00 AM to 7:00 PM on Monday through Friday. No noise exceeding ambient levels will occur after construction is compete. See Endnote 9.

ii. Will 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:

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 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: 0.05 tons per month (unit of time)
- Operation : 0 tons per NA (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: Construction waste will consist of office waste and cardboard from deliveries, most of which is recyclable.
- Operation: NA

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

- Construction: A refuse container will remain on site during construction, and will be emptied by a licensed hauler as needed.
- Operation: NA

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

If Yes:

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

ii. Anticipated rate of disposal/processing:

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

iii. If landfill, anticipated site life: _____ years

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

If Yes:

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

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

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

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

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

If Yes: provide name and location of facility: _____

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

E. Site and Setting of Proposed Action

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

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site. Refer to Figure 4.

☐ Urban ☐ Industrial ☑ Commercial ☑ Residential (suburban) ☑ Rural (non-farm)
☑ Forest ☑ Agriculture ☐ Aquatic ☑ Other (specify): Religious, public utilities, recreation, VFW

ii. If mix of uses, generally describe:

Agricultural, residential, service business, recreation, religious facility, social organization (VFW), public utilities (substation)

b. Land uses and covertypes on the project site. (for the total 114.79 acre project site)

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	1.1	1.12	+0.02
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	26.3 (Endnote 5)	+26.3
• Agricultural (includes active orchards, field, greenhouse etc.)	112.94	86.62	-26.32
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0.75	0.75	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation? ☐ 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:

VFW organization across Dryden Road from site

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: Based search of NYSDEC Environmental Facilities Mapping and NYSDEC Environmental Remediation Database. Refer to Attachment B.

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

Based search of NYSDEC spill and remediation site databases. Refer to Attachment B.

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): _____ ("no" check box was automatically selected by EAF Mapper)

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 Refer to Figure 5 and Endnote 6.

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:

Erie channery silt loam (EbB)	75 %
Langford channery silt loam (LaB)	23 %
Bath and Valois gravelly silt loam (BgC)	2 %

d. What is the average depth to the water table on the project site? Average: 0.75 to 3 feet

e. Drainage status of project site soils:
☑ Well Drained: 3 % of site
☑ Moderately Well Drained: 23 % of site
☑ Poorly Drained (Somewhat) 75 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____ % of site
☐ 15% or greater: _____ % 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.

Even though the EAF Mapper automatically responds "no", field delineation indicates the presence of wetlands on the site. Refer to Endnote 3 and Attachment A.

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 _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name unnamed Federally-regulated wetland Approximate Size 0.75 acres
- Wetland No. (if regulated by DEC) _____

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

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

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

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

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☑ Yes ☐ No
If Yes:
i. Name of aquifer: Principal Aquifer

m. Identify the predominant wildlife species that occupy or use the project site:
Common Tompkins County species
Refer to Endnote 7.

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: acres
- Following completion of project as proposed: acres
- Gain or loss (indicate + or -): acres

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

"No" response is automatically generated by EAF Mapper. Refer to Figure 6 and Endnote 7.

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

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use:

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

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☑ Yes ☐ No
If Yes, provide county plus district name/number: TOMP001

b. Are agricultural lands consisting of highly productive soils present? ☑ Yes ☐ No
i. If Yes: acreage(s) on project site? 59.97 acres of subject parcel (7.47 acres within 26.3-acre project area) See Endnote 6
ii. Source(s) of soil rating(s): NYS Department of Agriculture and Markets Land Classification; USDA NRCS Soil Report

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name:
ii. Basis for designation:
iii. Designating agency and date:

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? Refer to Figure 7 and Endnote 8. ☑ Yes ☐ No

If Yes:

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

ii. Name: Residence at 2265 Dryden Road was determined to be eligible for listing on the National/State Historic Register per CRIS.

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

historic building (no further information is provided by CRIS)

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? Refer to Figure 7 and Endnote 8. ☑ 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: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? Refer to Figure 8. ☑ Yes ☐ No

If Yes:

i. Identify resource: NYS Recreation areas, Dryden Lake State Multiple Use Area, scenic trail, NYSDEC trails, National/State Historic Register sites, Intersection of Route 13 and Gulf Hill Road (view N15)

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): Scenic trails, state parks and recreation areas, historic sites, noteworthy views as defined in the Tompkins County Scenic Resource Inventory

iii. Distance between project and resource: 0.6+/- miles. (Dryden Lake Town Trail)

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 Delaware River Solar, LLC Date Last Revised January 26, 2018

Signature Deborah S Hubbard Title Planner

Deborah S. Hubbard for The Chazen Companies, Agent for Applicant

PRINT FORM

EAF Mapper Summary Report

Tuesday, June 13, 2017 1:43 PM

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.

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]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.k. [500 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
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]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	Yes
E.3.a. [Agricultural District]	TOMP001
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National Register of Historic Places]	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

ENDNOTES

1. Project Area

   The total area affected by the project is 26.3± acres. Actual physical ground disturbance is 7.1± acres, and is limited to the poles on which the panels are located, power line trenching, inverter pad, construction entrance, and access drive improvements.

2. Comprehensive Plan

   The Town of Dryden Comprehensive Plan adopted December 8, 2005, states on page 40 that "*it is desirous to protect important agricultural lands in the town from inappropriate development, but it is just as important to provide the town's farm community with options in land use that will enhance the economic viability of their farms and ensure their long-term existence. Contemporary agricultural operations many times require supplemental sources of income in order to remain economically viable. Many communities have responded with the concept of 'agriculture-related commercial enterprises'. These are businesses that are subordinate to and compatible with the principal agricultural use of the land*." The Comprehensive Plan also promotes the encouragement of development that promotes the conservation of energy (page 34). Therefore, the proposed project is consistent with the Town Comprehensive Plan.

3. Wetlands and Surface Waters

   According to NYSDEC EAF Mapper, available GIS mapping (Figure 3), and the NYSDEC Environmental Resource Map (Figure 6), the site does not contain nor is it contiguous to any mapped State regulated wetlands or streams, or National Wetland Inventory wetlands. The "no" response in Section E.2.h. is automatically generated by the EAF Mapper. Field investigation by North Country Ecological Services, Inc., confirms there is a federally-regulated wetland present within the project area, which will not be disturbed for the proposed project. A small stream is located parallel to the eastern property line; however, this stream is not in the area of the project and will not be impacted.

4. Stormwater

   Please refer to accompanying SWPPP. The NYSDEC has determined that solar panels do not constitute impervious surface for stormwater management purposes.

5. As stated in endnote #4 above, the area under the panels <u>does not</u> constitute an impervious surface. This surface type is defined as meadow because the ground surface will be maintained as long grass.

6. Soils

   The following table provides the soil characteristics for each soil type expected to be found on the 26.3-acre project site, according to available Geographic Information Systems (GIS) information (Figure 4) and the USDA Natural Resources Conservation Service website (http://efotg.sc.egov.usda.gov/treemenuFS.aspx).

% OF SITE	SOIL SYMBOL	SOIL TYPE	Soil Group	SLOPES	DRAINAGE	DEPTH TO WATER TABLE (INCHES)	DEPTH TO BEDROCK (INCHES)
71%	EbB	Erie channery silt loam, 3 to 8% slopes	6	3 to 8%	somewhat poorly	9 to 18	>60 (12 to 18 to fragipan)
28%	LaB	Langford channery silt loam, 2 to 8% slopes	3	2 to 8%	moderately well	15 to 24	>60 (15 to 28 to fragipan)
1%	BgC	Bath and Valois gravelly silt loams, 5 to 15% slopes	5	5 to 15%			
		Bath (40%)			well	24 to 36	>72 (26 to 38 to fragipan)
		Valois (35%)			well	24 to 35	>60 (24 to 36 to fragipan)

Most of the area affected by the project contains the Erie channery silt loam (EbB) and the Langford channery silt loam (LaB) soil types. A small area of the Bath and Valois gravelly silt loams (BgC) soil type exists along the area to be temporarily disturbed for electric line installation. The USDA NRCS Farmland Classification designates map units as prime farmland, farmland of statewide importance, farmland of local importance, or farmland of unique importance. All of the soils within the project area are classified by the USDA NRCS as farmland of statewide importance. Farmland of statewide importance is not prime farmland. Additionally, 7.47 acres of the 26.3-acre project area (approximately 59 acres of the overall parcel) are classified in Soil Groups 1-4, also known as highly productive soils. The 7.47 acres of highly productive soils in the project area are the LaB soil type, classified in Soil Group 3. Approximately 6 acres of the proposed solar facility will disturb LaB soils, but the proposed impacts are temporary in nature. The site can be returned to agricultural use following decommissioning of the facility. More than 53 acres of highly productive soils will <u>not</u> be impacted by the proposed action.

7. Endangered, Threatened, and/or Rare Species and Significant Natural Communities

According to the NYSDEC Environmental Resource Map (Figure 6) there are no known occurrences of endangered, threatened, or rare species or significant natural communities in the vicinity of the project site; therefore, no request for records was sent to the NY Natural Heritage Program (NYNHP). The US Fish & Wildlife Service (USFWS) IPaC Trust Resources Report for the site indicates the potential for one threatened species, the Northern Long-Eared Bat (NLEB), and indicates that there are no critical habitats at this location. The habitat of concern for the NLEB consists of trees used for daytime roosting by females and their young. There are no trees or other woody plants on the project site that could serve as roosting sites for the NLEB, and no known hibernacula or roost sites in the vicinity of the project site. Therefore, the potential occurrence of NLEB on this site is negligible and will not require involvement by either USFWS or NYSDEC. The entire project site lies on lands that are used actively for agriculture; therefore, the site does not provide any habitat for any threatened or endangered species, other than possibly foraging habitat.

8. Cultural/Historic Resources

According to the NYS Office of Parks, Recreation, and Historic Preservation (NYSOPRHP) Cultural Resource Information System (CRIS) mapping (Figure 7), the residence on the adjacent parcel to the west at 2265 Dryden Road has been determined by NYSOPRHP to be eligible for listing on the National and State Historic Registers. The northeastern portion of the project parcel is located within a known archeologically sensitive area. However, the area of disturbance for the proposed solar farm is not in a known archeologically sensitive area and is not directly adjacent to the 2265 Dryden Road parcel. Access to the solar farm is proposed along an existing access drive from Ferguson Road. The only disturbance in the vicinity of the adjacent Historic Register site is temporary disturbance for underground electric line installation east of the Historic Register site. This area will be restored to agricultural use at project completion.

9. Noise

The applicant is proposing to install Ingecon PowerMax B Series inverters for the solar farm. The inverters generate a maximum sound pressure level (SPL) of no more than 77 decibels (dB) at a receptor distance of 1 meter. This SPL will attenuate as the receptor moves away from the inverter. As shown in the site plan, the inverters are located centrally on the subject site; the shortest distance between an inverter and the property line – the "receptor" in this case – is about 180 meters. The attenuation of sound over distance is typically predicted using the "Inverse Square Law", which is expressed in the following equation:

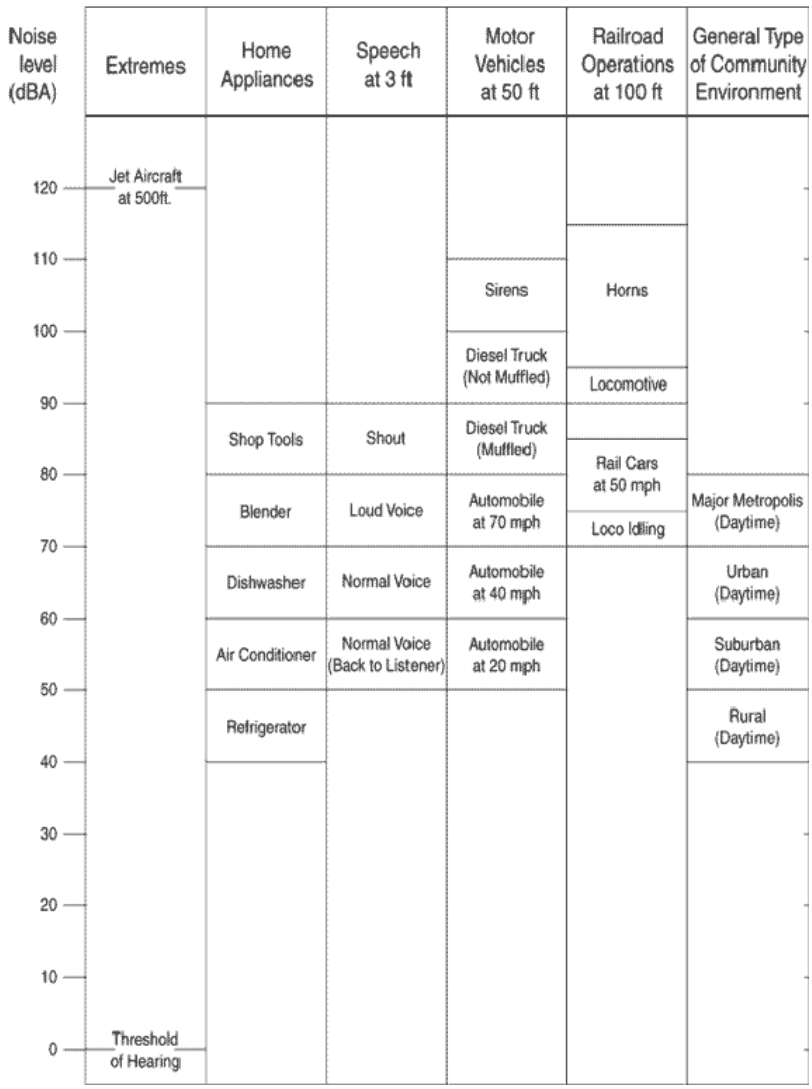
DSPL = 20 log (D_2/D_1), where:

DSPL is the change in sound pressure level
D_1 is the reference distance from the source (1 meter)
D_2 is the receptor distance from the source (180 meters)

Placing the known values in the equation, we can see that the change in SPL is about 45 dB:

DSPL = 20 log (180/1)
DSPL = 45 dB

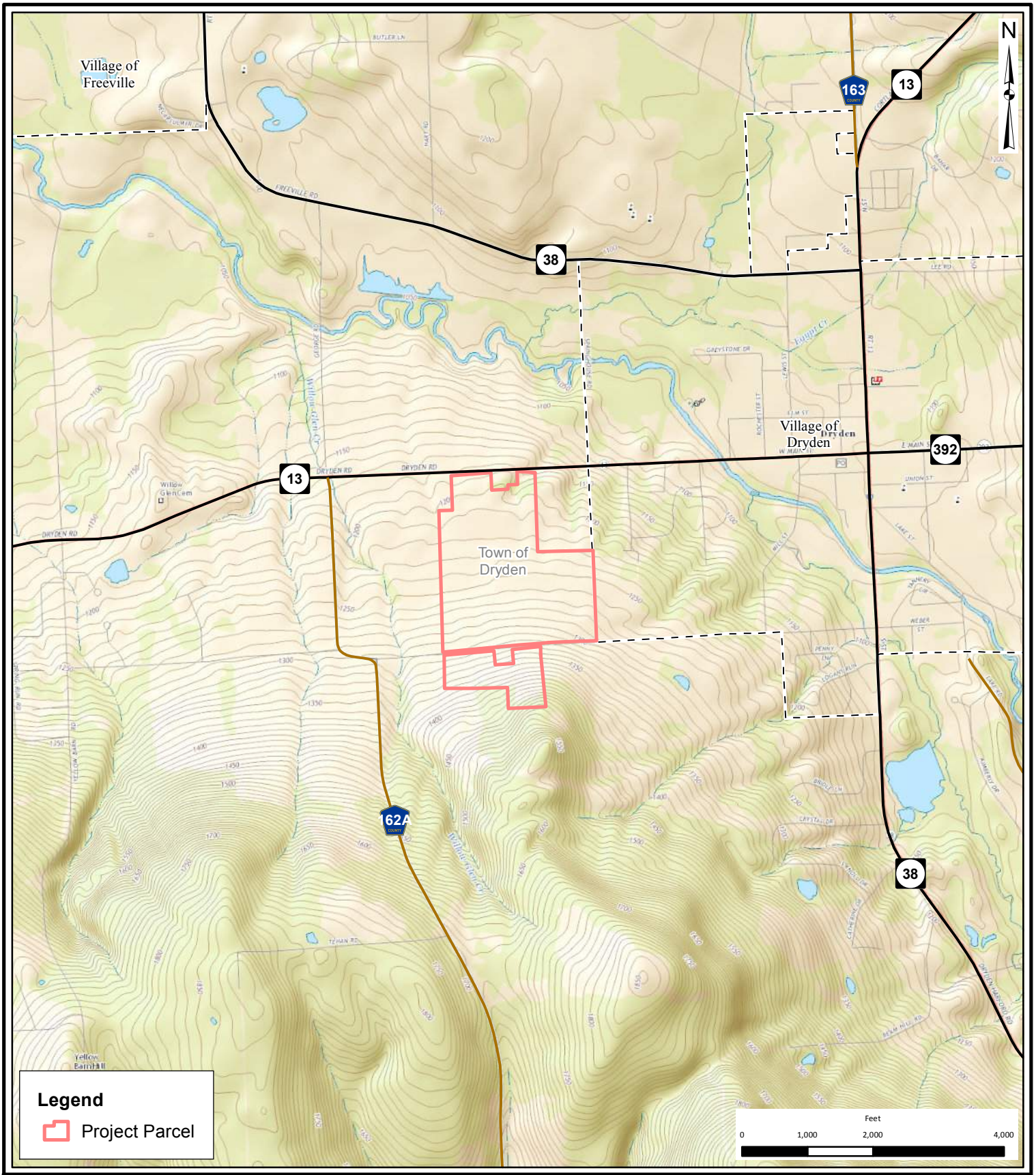
Subtracting the difference from the source SPL, the predicted SPL at the property line is 32 dB. The figure below, from the United States Department of Transportation, shows that the general ambient noise level in rural areas is between 40 and 50 dB.



Source: US DOT

Therefore, the predicted SPL from the proposed inverters should have no effect on ambient noise levels in the community.

FIGURES



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North Country Office:
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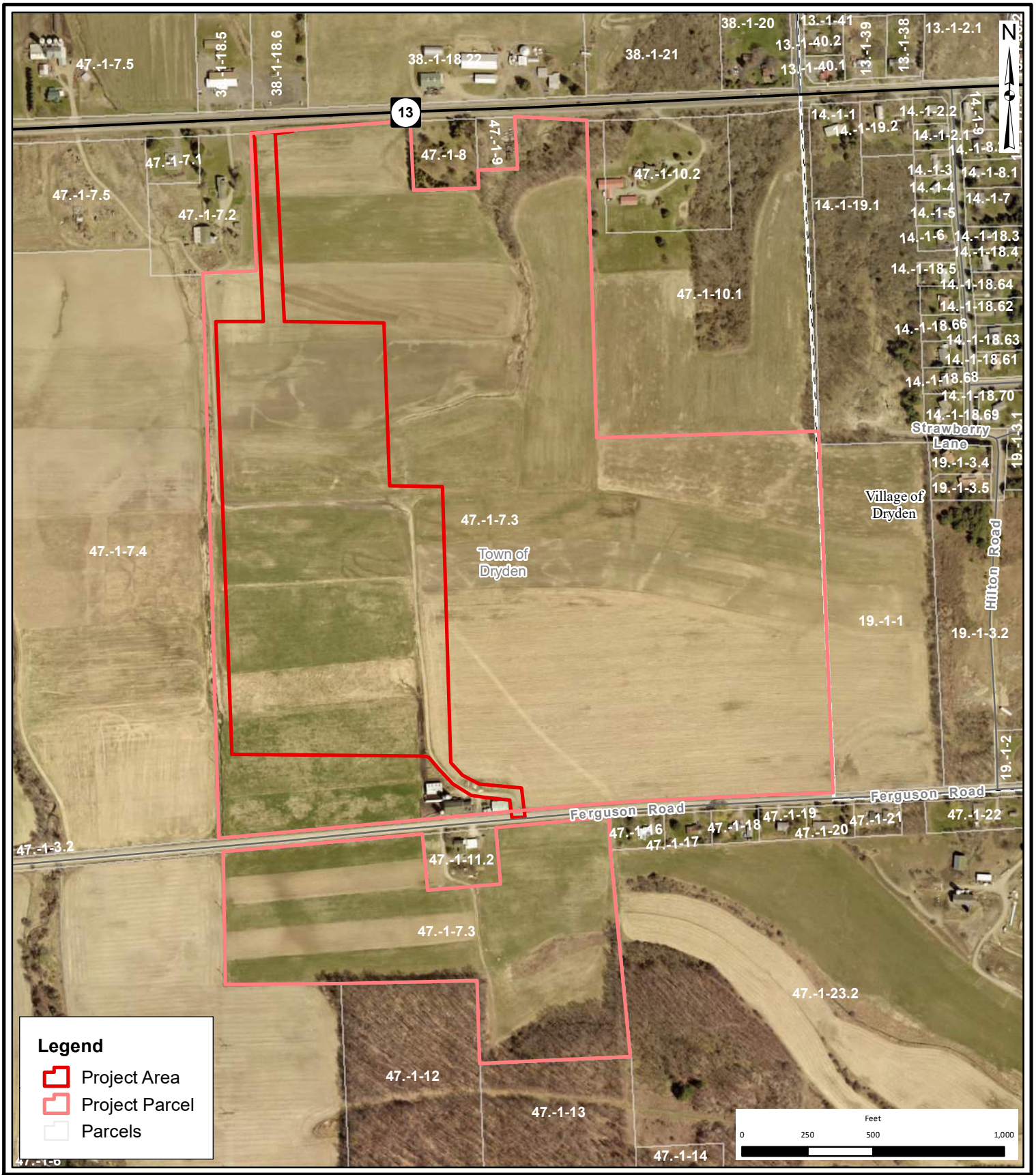
Phone: (518) 812-0513

Delaware River Solar, LLC, Proposed Solar Farm

USGS Location Map

Dryden Rd, Town of Dryden - Tompkins County, NY

Drawn:	RLB
Date:	06/23/2017
Scale:	1 in = 2,000 feet
Project:	81622.20
Figure:	1



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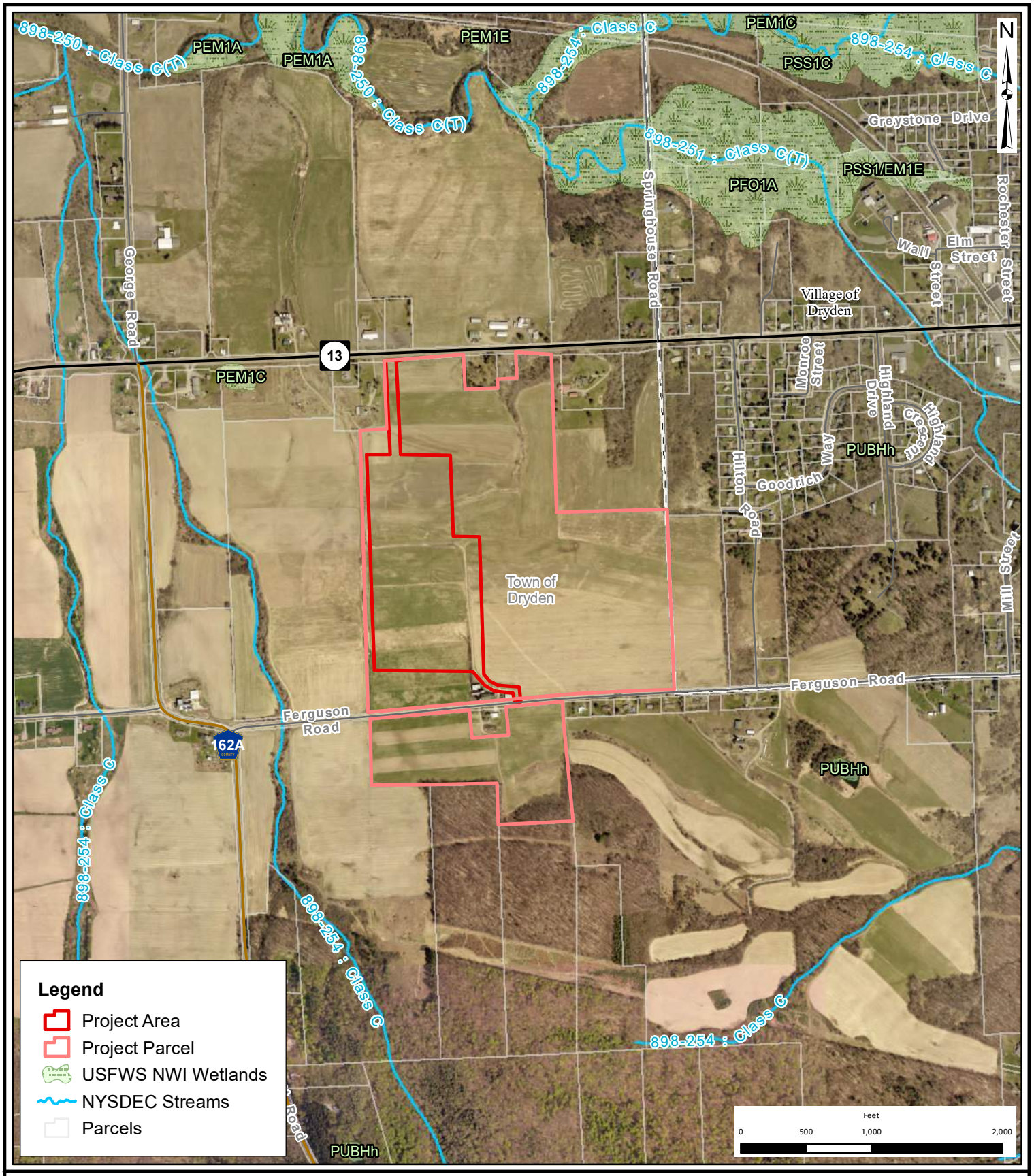
Delaware River Solar, LLC, Proposed Solar Farm

Orthophoto Tax Map

Dryden Rd, Town of Dryden - Tompkins County, NY

Drawn:	RLB
Date:	11/17/2017
Scale:	1 in = 500 feet
Project:	81622.20
Figure:	2



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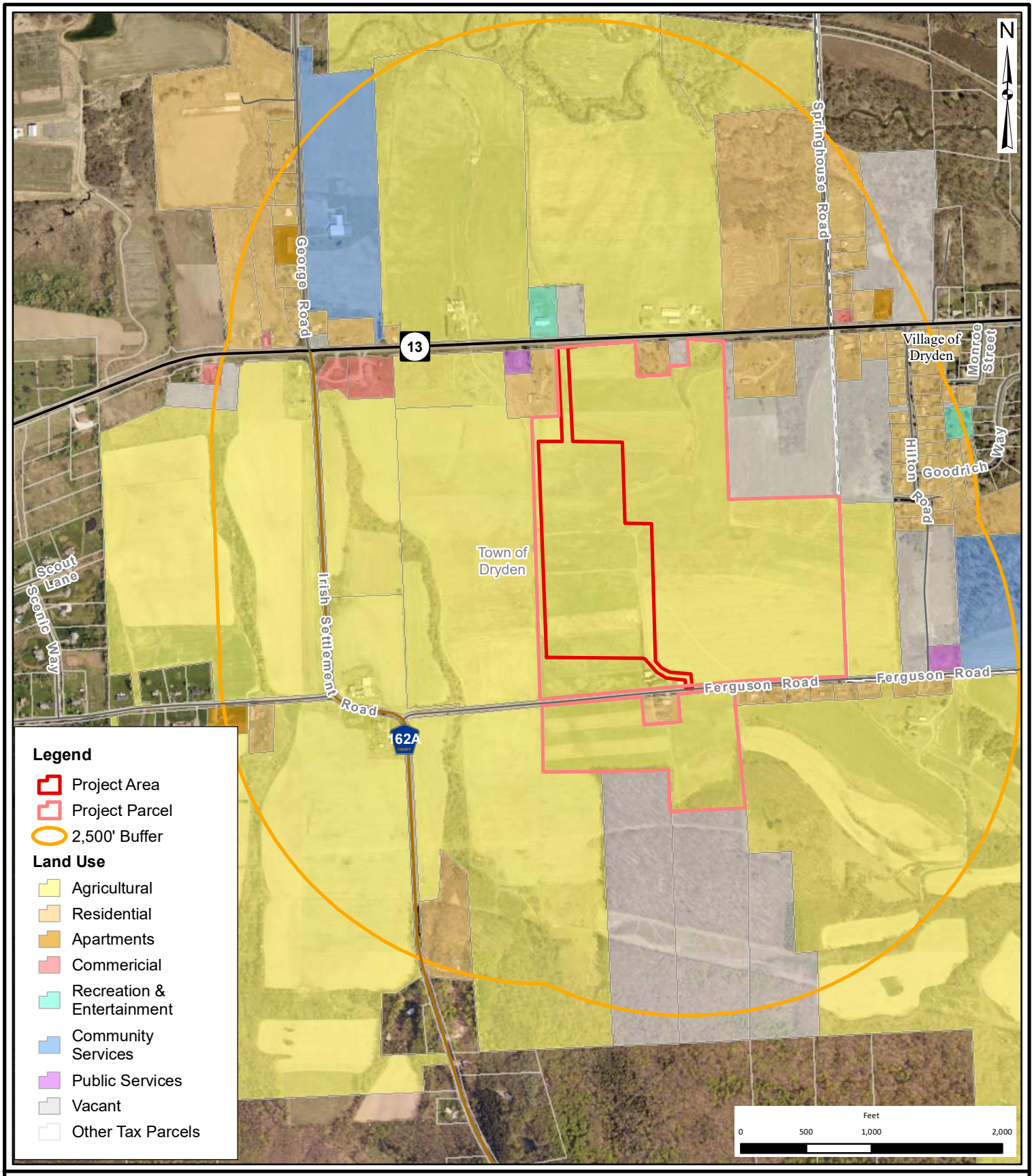
Delaware River Solar, LLC, Proposed Solar Farm

Wetland and Streams Map

Dryden Rd, Town of Dryden - Tompkins County, NY

Drawn:	RLB
Date:	11/17/2017
Scale:	1 in = 1,000 feet
Project:	81622.20
Figure:	3



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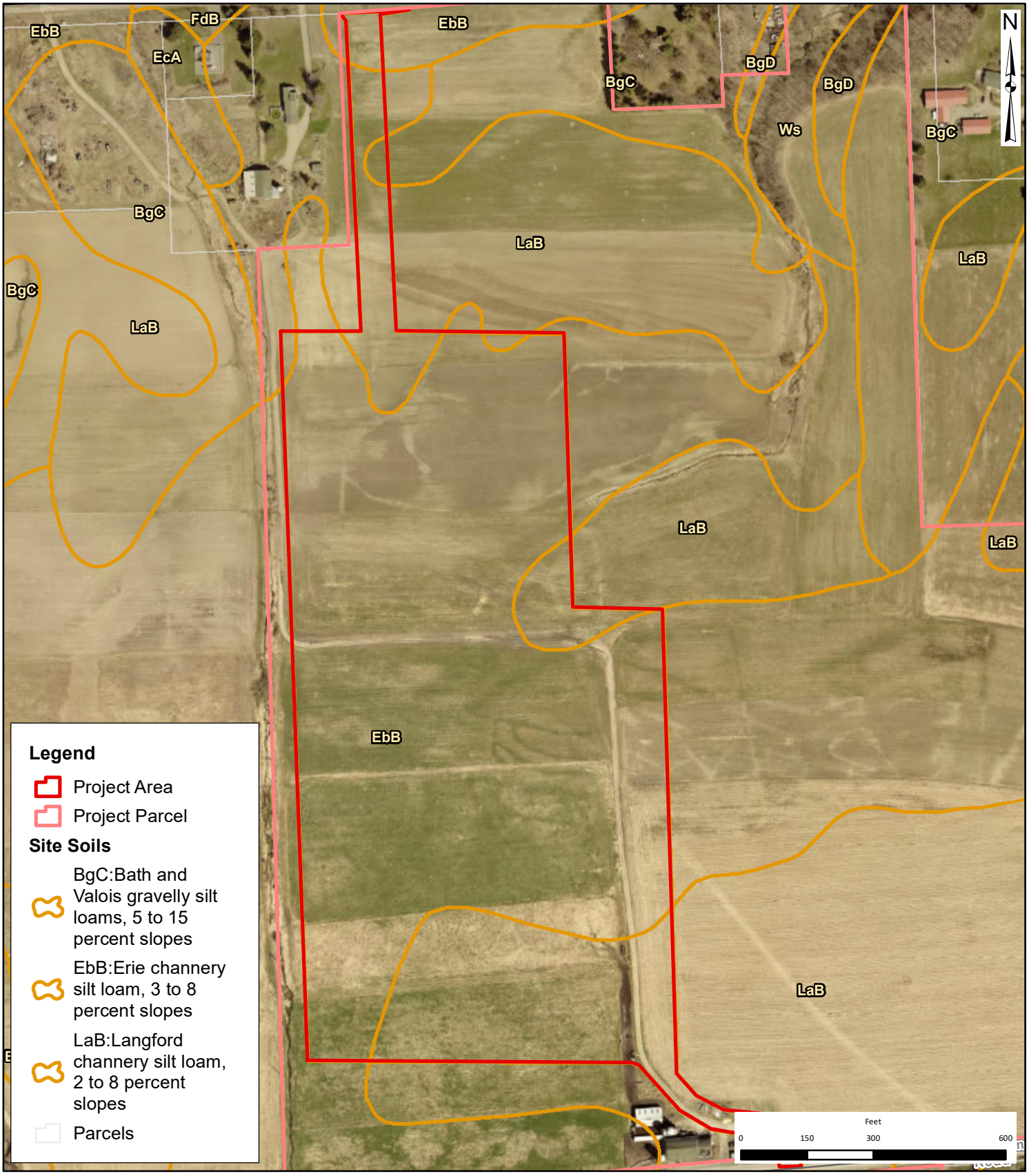
Delaware River Solar, LLC, Proposed Solar Farm

Land Use Map

Dryden Rd, Town of Dryden - Tompkins County, NY

Drawn:	RLB
Date:	11/17/2017
Scale:	1 in = 1,000 feet
Project:	81622.20
Figure:	4



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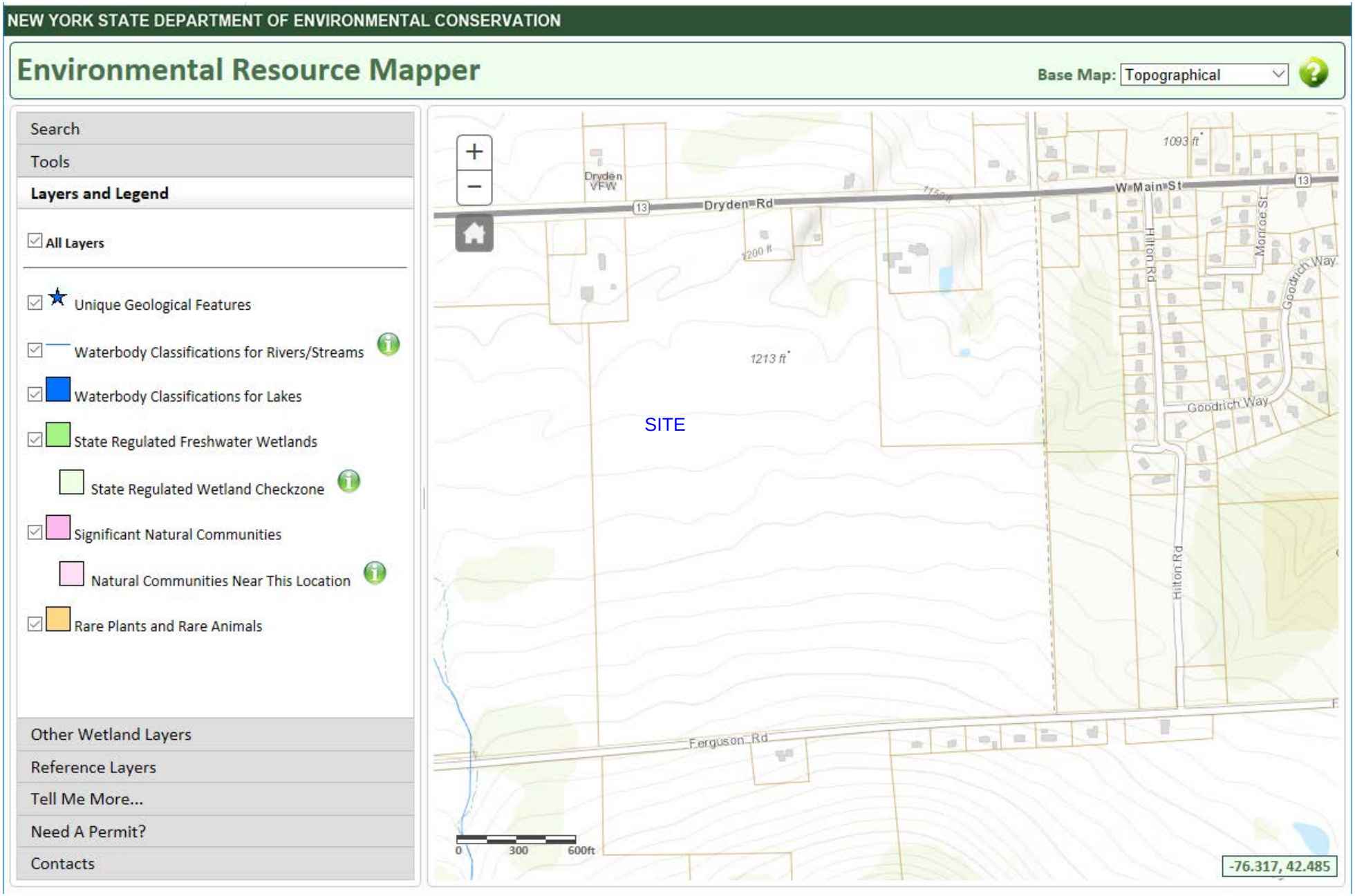
Delaware River Solar, LLC, Proposed Solar Farm

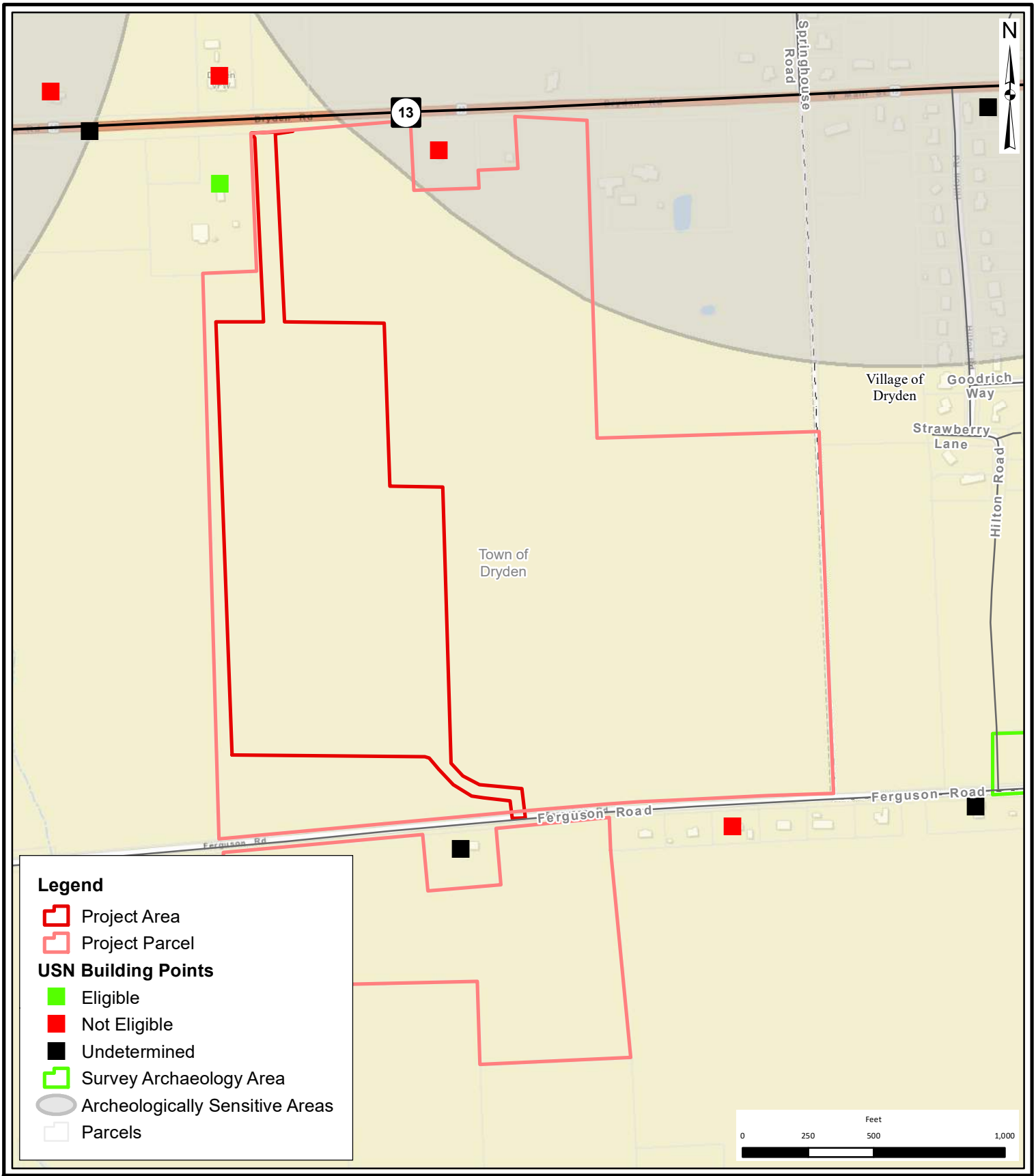
Soils Map

Dryden Rd, Town of Dryden - Tompkins County, NY

Drawn:	RLB
Date:	11/17/2017
Scale:	1 in = 300 feet
Project:	81622.20
Figure:	5

Figure 6
NYSDEC Environmental Resource Map





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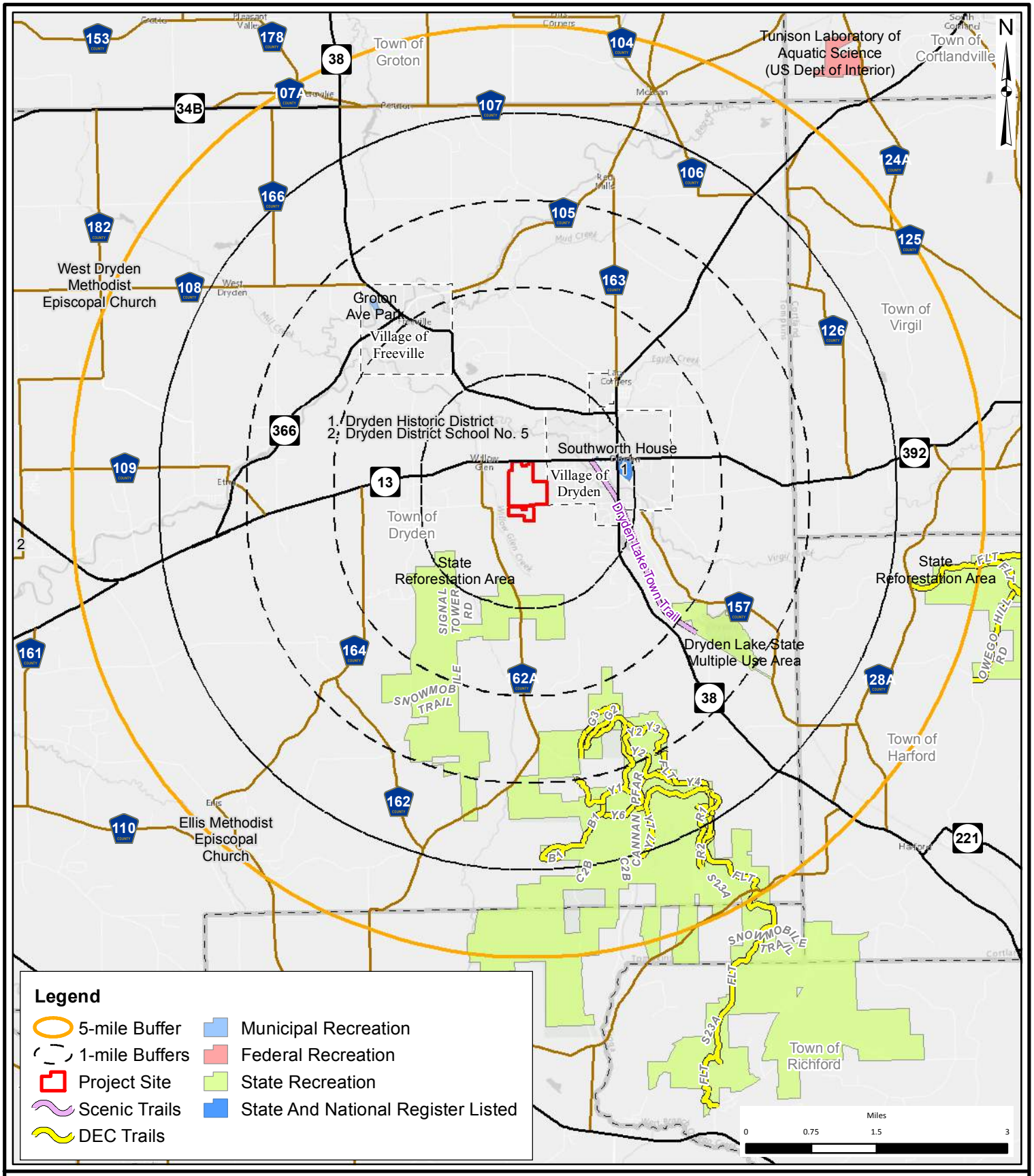
North Country Office:
375 Bay Road, Queensbury, NY 12804
Phone: (518) 812-0513

Delaware River Solar, LLC, Proposed Solar Farm

NYSOPRHP Cultural Resource Information System (CRIS) Map

Dryden Rd, Town of Dryden - Tompkins County, NY

Drawn:	RLB
Date:	11/17/2017
Scale:	1 in = 500 feet
Project:	81622.20
Figure:	7



THE Chazen COMPANIES
ENGINEERS
LAND SURVEYORS
PLANNERS
ENVIRONMENTAL & SAFETY PROFESSIONALS
LANDSCAPE ARCHITECTS

Dutchess County Office:
21 Fox Street, Poughkeepsie, NY 12601
Phone: (845) 454-3980

Capital District Office:
547 River Street, Troy, NY 12180
Phone: (518) 273-0055

North Country Office:
375 Bay Road, Queensbury, NY 12804
Phone: (518) 812-0513

Delaware River Solar, LLC, Proposed Solar Farm

Publicly Accessible Federal, State, or Local Scenic or Aesthetic Resources within 5 Miles

Dryden Rd, Town of Dryden - Tompkins County, NY

Drawn:	RL-B
Date:	06/26/2017
Scale:	1 in = 1.5 miles
Project:	81622.20
Figure:	8

ATTACHMENT A
Topographic Survey and Site Plan

The Chazen Companies
July 10, 2017
Last Revised January 2, 2018

MAP

SHOWING SURVEY OF A PORTION OF LANDS OF

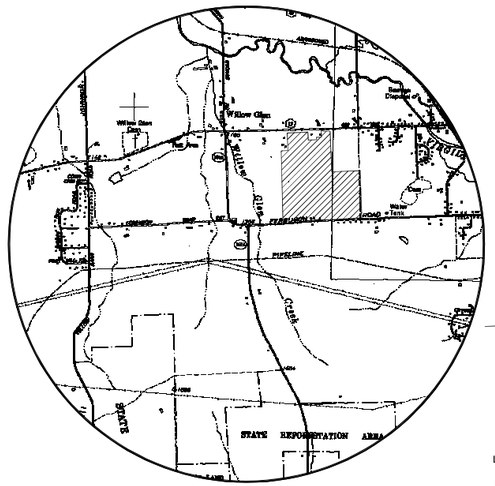
EVAN J. CARPENTER
BRENDA T. CARPENTER

PER LIBER 586 AT PAGE 1023 AND LIBER 722 AT PAGE 277
TOMPKINS COUNTY TAX PARCEL 47-1-7.3

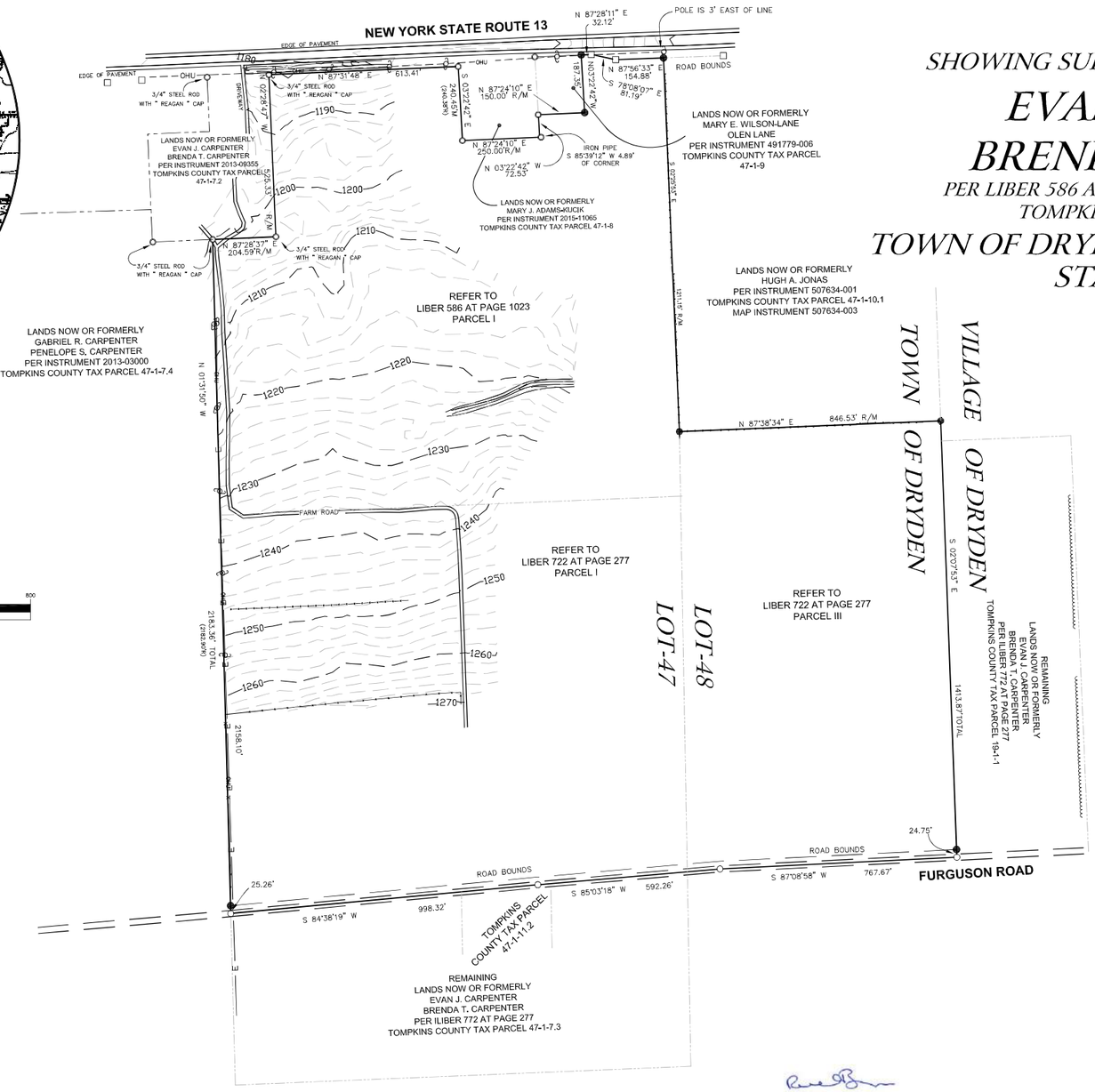
TOWN OF DRYDEN ~ COUNTY OF TOMPKINS
STATE OF NEW YORK

SCALE: 1" = 200'

TOTAL AREA = 114.79 ACRES



SITE LOCATION MAP
DRYDEN USGS QUADRANGLE
SCALE: 1" = 2000'



GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

Legend

- Denotes 5/8" steel rod and cap set
- Calculated point on property line
- 5/8" Steel rod, found, or as noted
- Utility Pole
- E / T / TV — Electric / telephone / TV
- —U/T— Underground telephone line
- —— × —— Wire Fence
- Stone Wall
- Hedge/Tree Line
- Parcel Lines or Lot Lines
- Land Hook
- Concrete Highway Monument
- Dirt Road or Trail
- Underground telephone marker

General Notes:

1)Utilities shown are based on surface indications only. Underground utilities are not located. Contractors are to verify locations by calling the Underground Facilities Protective Organization at 1-800-962-7962 or 811.
2) Subject to any rights of way or easements which may have been granted to utility companies.
3) Any certification expressed or implied herein applies only to the individual(s), association(s), agency(s), and/or corporation(s) explicitly listed.
4) There has been no delineation of wetlands or hazardous wastes on this property and the existence of such was neither investigated nor confirmed during the course of this survey.
5) Copies from the original of this survey map not marked with an original of the Land Surveyors inked seal or his embossed seal shall not be considered to be a valid true copy.
6) Unauthorized alteration or addition to a survey map bearing the seal of a licensed Land Surveyor is a violation of Section 7209, subdivision 2 of the New York State Education Law.
7) Excepting and reserving the rights of others in and to the use of Furguson Road.
8) Vertical datum is NAVD 88.

Sheet#: 1
Sheet 1 of 1
Job# 4235
Drawn By: DVG
Scale: 1" = 200'
Date: 4-28-17

TOPOGRAPHIC AND BOUNDARY SURVEY

Delaware River Solar, LLC
33 Irving Place 10th floor
New York, NY
10003

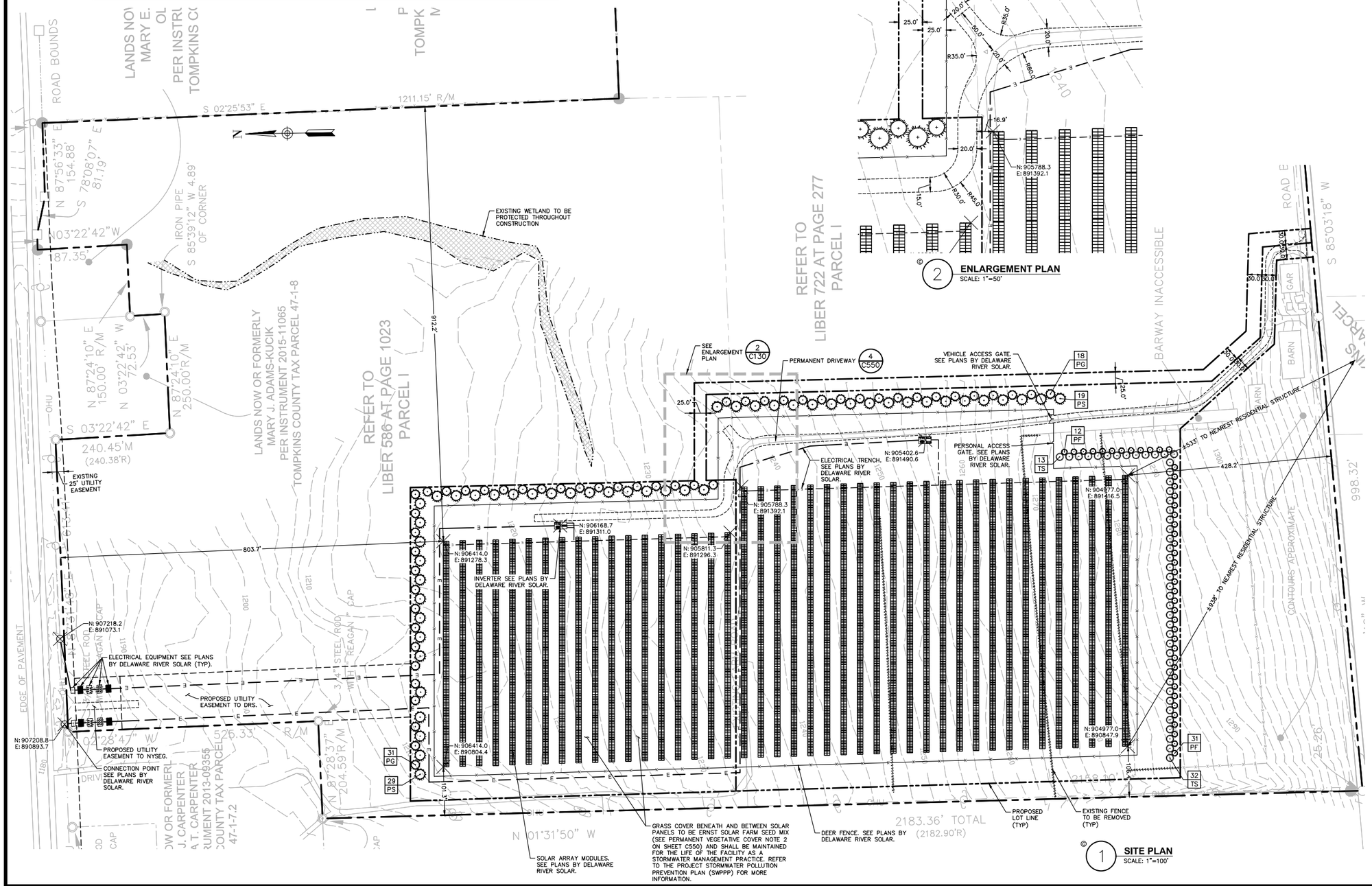
STATE OF NEW YORK RICHARD G. BENNETT NO. 050155 LICENSED LAND SURVEYOR

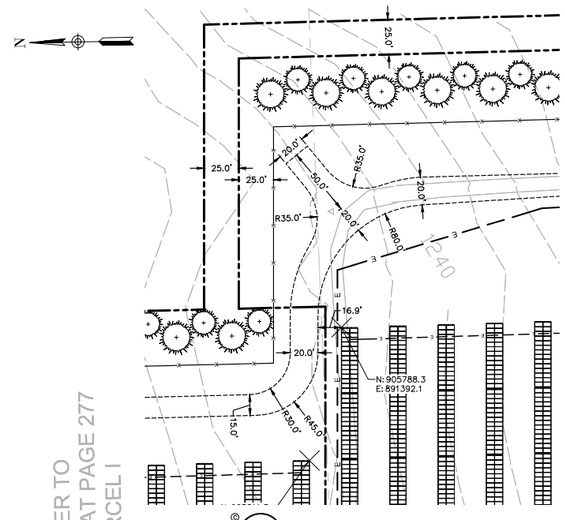
Revisions		
No.	Date	Description

KAATSKILL MOUNTAIN SURVEYORS
LAND SURVEYORS & GPS SPECIALISTS
23 Maple Street, Oneonta, NY 13820
phone: (607)433-2692,
fax: (607)433-2396
e-mail: kmssurvey@kmssurvey.com
internet: www.kaatskillsurveyors.com

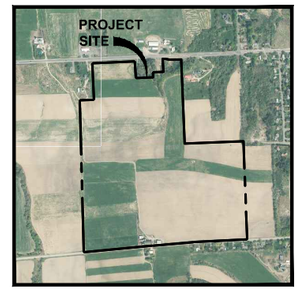
PLANT LIST

QTY	ABRV	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	REMARKS
TREES							
43	PF	Picea pungens 'Fat Albert'	Fat Albert Blue Spruce	5' – 6' Ht.	B&B	As Shown	
45	TS	Tsuga canadensis	Eastern Hemlock	5' – 6' Ht.	B&B	As Shown	
49	PG	Picea pungens 'Glauca'	Colorado Blue Spruce	5' – 6' Ht.	B&B	As Shown	
48	PS	Pinus strobus	Eastern White Pine	5' – 6' Ht.	B&B	As Shown	





2 **ENLARGEMENT PLAN**
SCALE: 1"=50'



LOCATION MAP
SCALE: 1"=1,000'

RECORD OWNER:
EVAN AND BRENDA CARPENTER
2265 DRYDEN ROAD
DRYDEN NEW YORK, 13053

TAX MAP INFORMATION:
TOWN OF DRYDEN,
COUNTY OF TOMPKINS
SECTION 47, BLOCK 1,
LOT 7.3

DEVELOPER / APPLICANT:
DELAWARE RIVER SOLAR, LLC
33 IRVING PLACE, SUITE 1090
NEW YORK, NY 10003

AREA:
TOTAL PROPERTY
ACREAGE : 114.79 ACRES

ZONING:
RA: RURAL AGRICULTURE

SITE CIVIL ENGINEER AND LANDSCAPE ARCHITECT:
CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.
547 RIVER STREET, TROY, NY 12180
PHONE: (518) 273-0055

SITE PLAN NOTES:

GENERAL CONSTRUCTION:

1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
2. ALL SURFACE RESTORATION SHALL MEET AND MATCH EXISTING GRADES.
3. NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
4. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE ENGINEER.
5. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
7. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
8. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CULVERTS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOBE). MAILBOXES, SIGN POSTS, ETC SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE, SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE, REMOVE LAWN AND REPLACE TO MINIMUM LIMIT OF EXCAVATION.

LAYOUT :

1. BUILDING, EQUIPMENT, AND SOLAR MODULE DIMENSIONS TO BE TAKEN FROM PLANS BY DELAWARE RIVER SOLAR. NOTIFY THE ENGINEER OF ANY DEVIATION FROM CONDITIONS SHOWN ON THIS PLAN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

BASE MAP REFERENCE :

BASE MAP SURVEY ENTITLED "MAP SHOWING SURVEY OF A PORTION OF LANDS OF EVAN J. CARPENTER BRENDA T. CARPENTER, TOWN OF DRYDEN, COUNTY OF TOMPKINS, STATE OF NEW YORK." DATED APRIL 28 2017, PREPARED BY KAATSKILL MOUNTAIN SURVEYORS, JOB NO. 4235.

SITE LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINE
- EXISTING 2 FT CONTOUR
- EXISTING 10 FT CONTOUR
- EXISTING ROAD
- OHW — EXISTING OVER HEAD WIRE
- PROPOSED DEER FENCE
- PROPOSED ELECTRIC LINE
- PERMANENT DRIVEWAY
- PROPOSED CONIFEROUS TREES
- 43 / CO — PLANT QUANTITY / PLANT NAME

1 **SITE PLAN**
SCALE: 1"=100'

0 1 2 3
ORIGINAL SCALE IN INCHES

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I HEREBY CERTIFY THAT THIS SURVEY MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED JULY 24, 1995 AND THAT THIS SURVEY MAP WAS MADE BY ME OR UNDER MY DIRECTION, AND CONFORMS WITH THE MINIMUM STANDARD OF PRACTICE ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.

CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE, CO., D.P.C.
THE Chazen COMPANIES® Proud to be Employee Owned
Engineers Land Surveyors Planners Environmental & Safety Professionals Landscape Architects

Office Locations:
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☒ Capital District Office: 547 River Street, Troy, New York 12180, Phone: (518) 273-0055
Tennessee Office: 1033 Demonbreun Street, Suite 300, Nashville, Tennessee 37203, Phone: (615) 380-1359
☐ North Country Office: 375 Bay Road, Queensbury, New York 12804, Phone: (518) 812-0513
☐ Central NY Office: 721 East Genesee Street, Syracuse, New York 13210, Phone: (315) 251-1013

rev.	date	description
7	01/26/18	DRIVEWAY REVISIONS
6	12/22/17	LAYOUT CHANGES
5	12/14/17	PLANTING PLAN REVISIONS
4	11/17/17	LAYOUT CHANGES
3	10/23/17	ADDED PROPOSED LOT LINE AND PLANTING REVISIONS
2	10/05/17	LAYOUT CHANGES
1	8/23/17	ADDED SECOND ARRAY

DRYDEN ROAD SOLAR FARM

SITE PLAN

TOWN OF DRYDEN, TOMKINS COUNTY, NEW YORK

designed	checked
KK	WK
date	scale
6/08/17	1"=100'
project no.	
81622.20	
sheet no.	
C130	

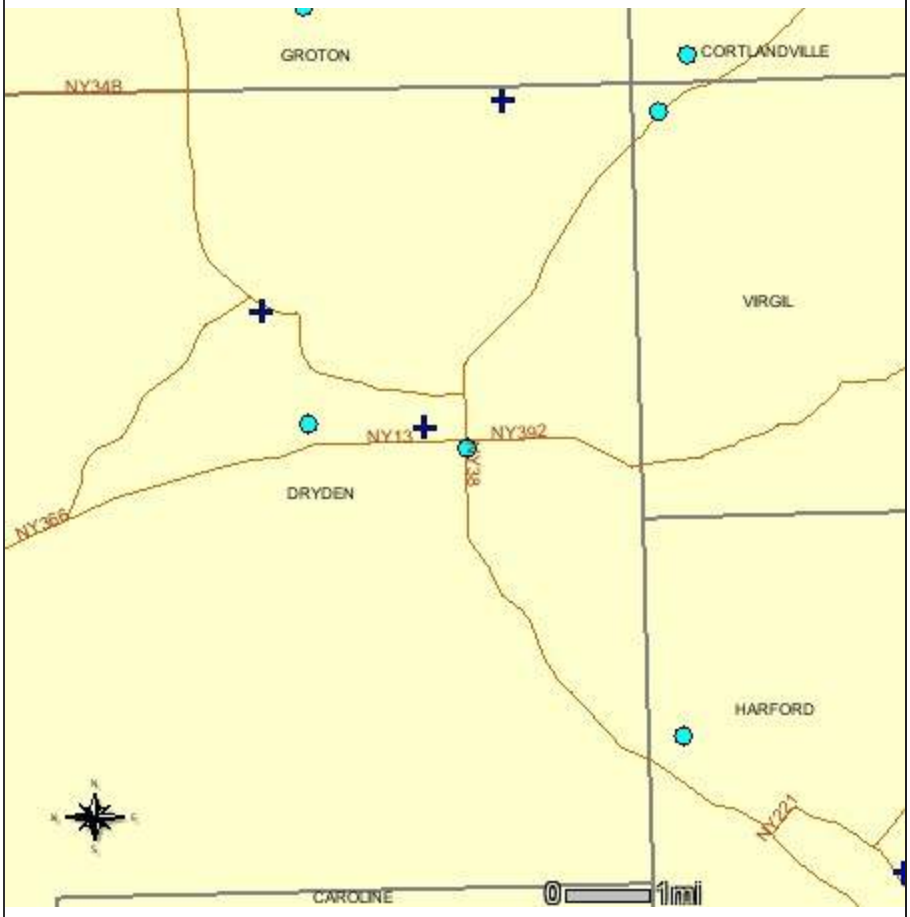
Drawing Name: Z:\projects\81600-81699\81622.20 DRS Dryden Road\DWG\01_C130_81622-20_SITE.dwg
Xref's Attached: XTB_81622-20; XBASE_SVY_81622-20_KAATSKILL; XLAYOUT_81622-20_DRS; XLAYOUT_RASTER; XLAYOUT_81622-20_CHAZEN
Date Printed: Jan 26, 2018, 10:22am

ATTACHMENT B
NYSDEC Spill and Environmental Remediation Site Search Results

The Chazen Companies
July 10, 2017
Last Revised January 2, 2018

ATTACHMENT B

NYSDEC Environmental Facilities Map



Major Lakes
Water Discharge Sites
TRI Sites
Remediation Sites
Brownfield Cleanup Program
Environmental Restoration Program
Resource Conservation and Recovery
State Superfund Program
Voluntary Cleanup Program
Active Solid Waste Facilities
Air Emission Sources
Water Withdrawal Facility
DEC Regional Offices
Interstate Highways
State and US Highways
US
State
Parkwy
Other
Rivers and Lakes
Towns
Counties

Search Results for Dryden Road Town of Dryden

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Environmental Site Remediation Database Search Results

Sorry, no records met your search criteria

Refine This Search

Spill Search Results for Dryden Road, Town of Dryden

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 6 Rows: 1 to 6

Export XLS | Export CSV

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address	Distance from Site
1.	8706001	10/16/1987	DRYDEN LAKE	Tompkins	DRYDEN	DRYDEN LAKE	(2.5 miles)
2.	8800758	04/25/1988	STALEY	Tompkins	DRYDEN	1143 DRYDEN RD	(6 miles)
3.	9305043	07/22/1993	1834 DRYDEN RD.	Tompkins	DRYDEN	1834 DRYDEN RD	(2 miles)
4.	9710675	12/18/1997	311 DRYDEN HARTFORD RD	Tompkins	DRYDEN	311 DRYDEN HARTFORD RD	(1.7 miles)
5.	0107752	10/30/2001	PLANTATION INN	Tompkins	DRYDEN	1280 DRYDEN RD	(5 miles)
6.	1600866	04/26/2016	CASKEYS GARAGE	Tompkins	DRYDEN	1990 DRYDEN RD	(1.5 miles)

Refine This Search