

PLAINFIELD ZONING BOARD OF ADJUSTMENT
APPLICATION FOR APPEAL

PLEASE READ: This form should be completed after discussions with the town's zoning administrator about the proposal. If you have not already done so, please contact the zoning administrator (469-3201).

Applicant's name: Cynthia Patalano

Mailing address: PO Box 42
Plainfield NJ 03781

Property Street address: #1127 Rte 12A

Tax Map / Lot Number: 10813

Zoning district: 3000

Property owner of record: 3000

Type of appeal (check one):

- variance
- special exception # 24 Gnd RT 3000
- administrative decision

Applicants signature: [Signature]

- Required Attachments:
- a) applicant signed description of the proposal.
 - b) site map(s) exterior/interior.
 - c) abutter list with mailing addresses.

Fee: application \$50
notification \$45 Total \$140
30

Hearing Date: 2/11

In order to be on the meeting agenda for the above date, your paid application must be received at the town office no later than Monday 8/20 (ZBA rule 9.3).

Office Use

date filed: 8/20
case number: 17-05
attachments: 0/n
fee paid: y/n

9/15/17
ZBA

TOWN OF PLAINFIELD ZONING AND BUILDING PERMIT APPLICATION



Property Owner:

Name: Phone:

Street: Email:

City State Zip:

Project: **Permit Type:** (Check one) Building Zoning

Street Address:

Tax Map: Lot Number: Lot Acreage: Zoning District:

Proposed project distances to property lines (in feet): Front: Rear: Side: Side:

State Approved Septic Design #: Driveway Permit #:

Please provide a written description of the project including appropriate dimensions:

Installation of grid-tied solar power system consisting of:
 1 ground mounted pv, solar array on concrete base, as described in sheets #4, #5, & #6 (attached)
 1 Solar Edge single phase inverter and underground wiring, connecting to electrical service at the house
 (all electrical specs contained in sheets #7, 8, 9 & 10, (attached))

Contractor Information:

Builder:	Electrician:	Plumber:
Name: <input type="text" value="Solalect Energy"/>	Name: <input type="text" value="see attached list (Sheet # 3)"/>	Name: <input type="text" value="N/A"/>
Phone: <input type="text" value="(802) 647-3700"/>	Phone: <input type="text"/>	Phone: <input type="text"/>

Applicant Signature: Cynthia C Patalano Date: 8/15/17

Required Attachments:

Please provide a copy of plans detailing the project. Hand-drawn plans can be used if necessary. Permits cannot be issued without receipt of the proper fee. If you are unsure of the amount due or have any questions about your application, contact the town office (603-469-3201).

TOWN USE: Current Use: Yes / No ZBA: Yes / No PB: Yes / No

BOARD OF SELECTMEN ACTION

Reviewed By Building Inspector or Zoning Administrator _____

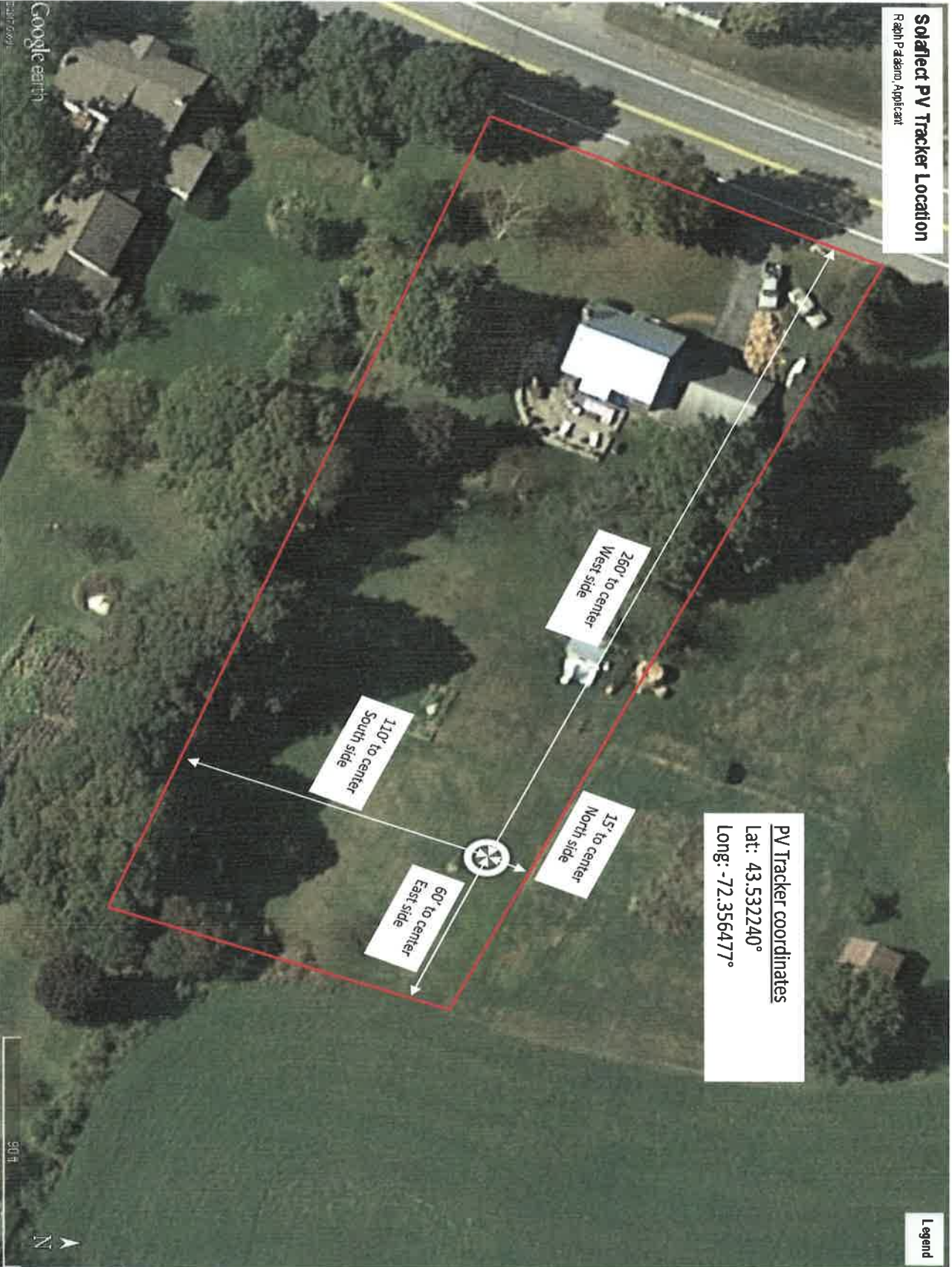
_____ Approved _____ Denied

Permit #: _____ Date: _____

2

Solalect PV Tracker Location

Rajni Padam, Applicant



PV Tracker coordinates

Lat: 43.532240°

Long: -72.356477°

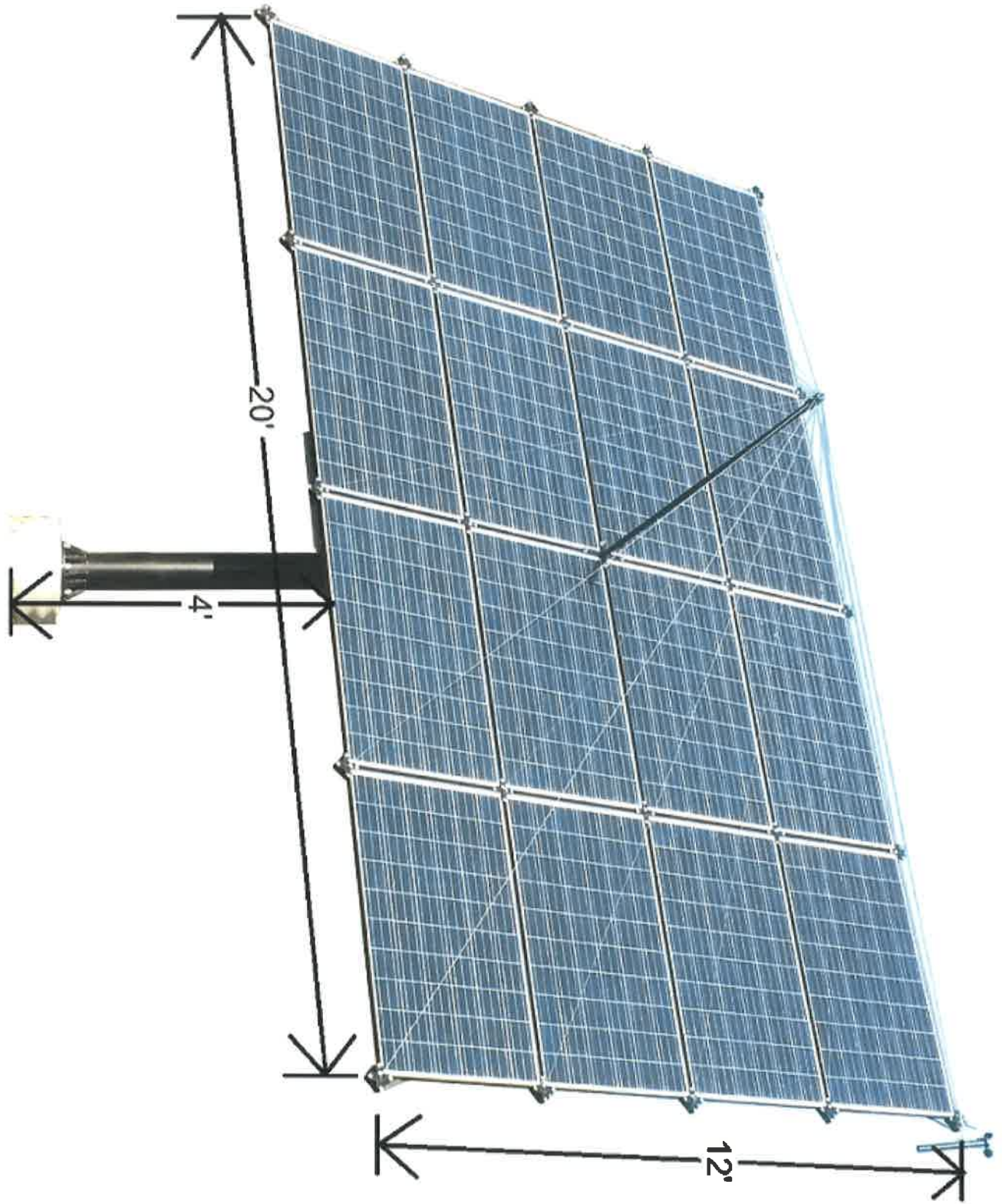
Legend

50 ft

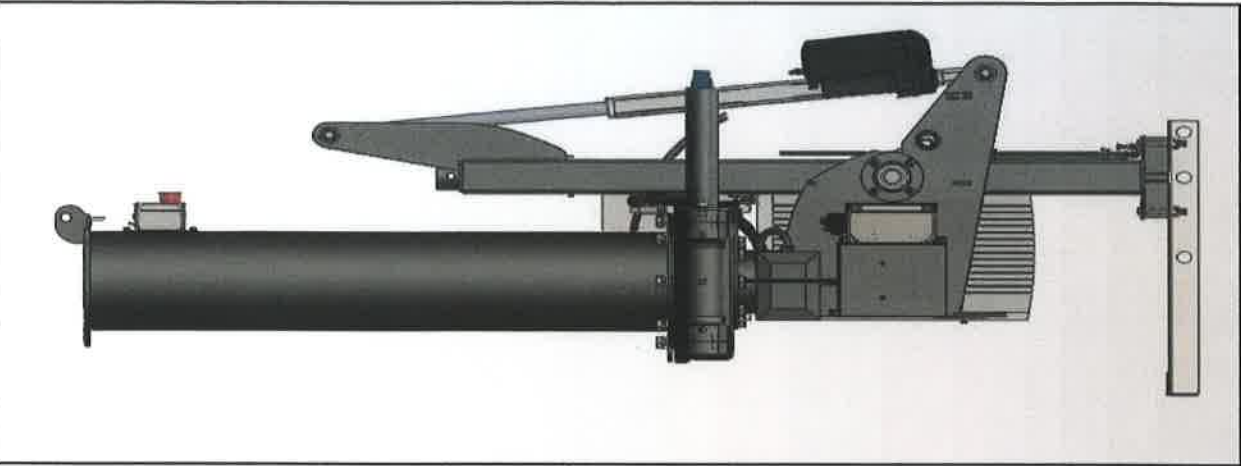


Google earth

4



#5



TECHNICAL SPECIFICATION

Residential

Commercial

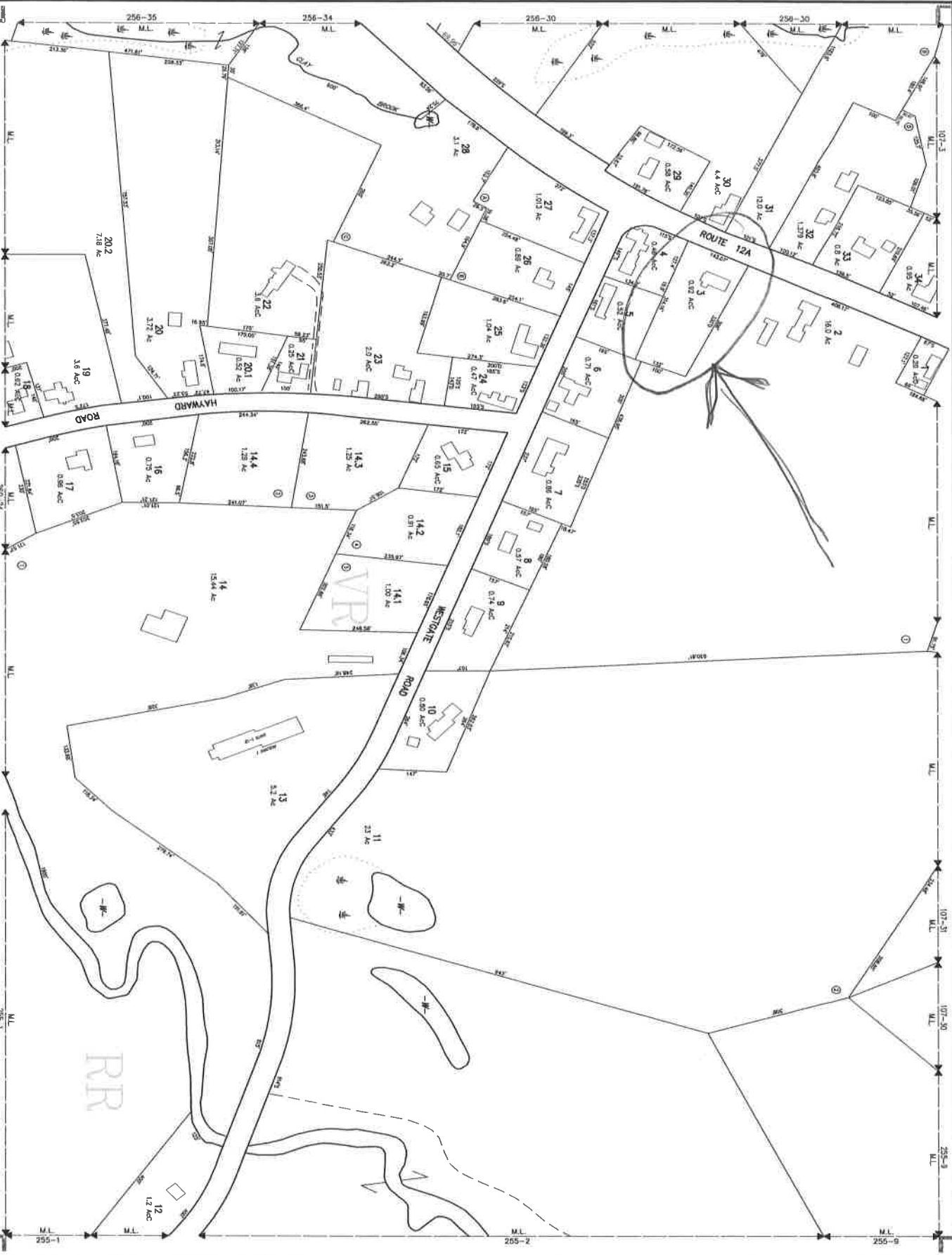
Output	4.32 kW DC, 240 V AC single-phase	4.08 kW DC, 208/480 V AC three-phase
Inverter (single tracker)*	SolarEdge SE5000A-US (5 kW AC)	n/a
Inverter (multi-tracker)*	SolarEdge SE5000A-US (5 kW AC)	SolarEdge SE10KUS (10 kW AC) and SE20KUS (20 kW AC)
Modules*	16 Canadian Solar CS6K-270M-SD (270 W) with embedded SolarEdge OP1300-LV optimizer (300 W)	16 CanadianSolar CS6P-255P (255 W) 8 SolarEdge P600 (600W)
Optimizer*		
Power monitoring	SolarEdge Monitoring portal (website)	
Tracking type	Dual axis with automatic wind stow (>25 mph)	
Drive system	LINAK LA37 sealed electric linear actuator (IP66, maintenance free), Kinematics Manufacturing ZKE9C sealed electric slew drive zero-backlash (IP66, maintenance free)	
Control system	Solarfect Tracking Controller utilizing NREL Solar Position Algorithm, network enabled	
Materials	Powder coated steel, reinforced concrete	
Dimensions	Height 16 ft, swing radius 11 ft	
Maximum wind speed¹	115 MPH Ultimate Wind Speed	
Codes and standards	NEC, UL, NEMA, CE, FCC	
Patents	Patents and patents pending	

*Flexibility in module and inverter choice, please inquire at info@solarfect.com

¹Inquire about specifics at info@solarfect.com



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THIS MAP IS FOR ASSESSMENT PURPOSES. IT IS NOT VALID FOR LEGAL DESCRIPTION OR CONVEYANCE.
 THE HORIZONTAL DATUM IS THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM, NAD 83.
 PHOTOGRAPHIC DATE: APRIL 23, 2003
 COMPLETION DATE: NOVEMBER 30, 2004



LEGEND

ROAD	ROAD CENTERLINE
RR	RAILROAD CENTERLINE
W	WATER
...	...

SCALE 1" = 100'
 METERS

PROPERTY MAPS
PLAINFIELD
 NEW HAMPSHIRE

INDEX DIAGRAM MAP NO. 108

EVERSOURCE -- NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA
Terms and Conditions for Simplified Process Interconnections

Company waives inspection/Witness Test: Yes No

Date of inspection/Witness Test: _____

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its Application once the Approval to Install the Facility has been signed by the Company. Such Approval relates only to the Eversource and Puc 900 electrical interconnection requirements, and does not convey any permissions or rights associated with permits, code enforcement, easements, rights of way, set back, or other physical construction issues.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
 - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
 - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted.
 - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion, and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
6. **Metering and Billing.** All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
 - 6.1. **Interconnecting Customer Provides:** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
 - 6.2. **Company Installs Meter.** The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
7. **Indemnification.** Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
8. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
9. **Termination.** This Agreement may be terminated under the following conditions:
 - 9.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
 - 9.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
 - 9.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
10. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
11. **Interconnection Standard.** These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).

RECEIVED
JUN 02 2007
SESD

EVERSOURCE - NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement
[submit form via email to: NHDG@eversource.com]

Eversource Application Project ID#: N7489

Contact Information:

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

Customer or Company Name (print): Ralph Patalano Cynthia

Contact Person, if Company:

Mailing Address: 1127 Rte. 12A P.O. Box 42

City: Plainfield State: NH Zip Code: 03781

Telephone (Daytime): C: (603) 398-3952 (Evening): H: (603) 675-5582

Facsimile Number: _____ E-Mail Address: rgpatalano@comcast.net

Alternative Contact Information (e.g., System installation contractor or coordinating company, if appropriate):

Name: Solaflect Energy

Mailing Address: 326 Main Street, Suite 4

City: Norwich State: VT Zip Code: 05055

Telephone (Daytime): (802) 649-3700 (Evening): (802) 649-3700

Facsimile Number: (802) 649-3079 E-Mail Address: icallahan@solaflect.com

Electrical Contractor Contact Information (if appropriate):

Name: Chris Snider / Simple Energy

Mailing Address: 112 N. Main Street

City: West Lebanon State: NH Zip Code: 03784

Telephone (Daytime): (603) 298-7200 (Evening): (603) 298-7200

Facsimile Number: (603) 298-7730 E-Mail Address: chris.snider@simpleenergyonline.com

Facility Site Information:

Facility (Site) Address: 1127 Rte. 12A ✓

City: Plainfield State: NH Zip Code: 03781

Electric

Service Company: Eversource Account Number: 56093151058 ✓ Meter Number: 572447356 ✓

Account and Meter Number: Please consult an actual Eversource electric bill and enter the correct Account Number and Meter Number on this application. If the facility is to be installed in a new location, please provide the Eversource Work Request number.

Eversource Work Request # _____

Non-Default Service Customers Only:

Competitive Electric

Energy Supply Company: _____ Account Number: _____

(Customer's with a Competitive Energy Supply Company should verify the Terms & Conditions of their contract with their Energy Supply Company.)

**EVERSOURCE - NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA**

Simplified Process Interconnection Application and Service Agreement

Facility Machine Information:

Generator/ Inverter Manufacturer: Solar Edge ✓ Model Name & Number: SE5000A-US ✓ Quantity: 1 ✓
 Nameplate Rating: 5.0 ✓ (kW) (kVA) 240 (AC Volts) Phase: Single Three

Nameplate Rating: *The Max AC Nameplate rating of the individual inverter.*

System Design Capacity: 5.45 ✓ (kW) (kVA) Battery Backup: Yes No

System Design Capacity: *The system total of the inverter AC ratings. If there are multiple inverters installed in the system, this is the sum of the AC nameplate ratings of all inverters.*

Net Metering: If Renewably Fueled, will the account be Net Metered? Yes No

Prime Mover: Photovoltaic Reciprocating Engine Fuel Cell Turbine Other _____

Energy Source: Solar Wind Hydro Diesel Natural Gas Fuel Oil Other _____

Inverter-based Generating Facilities:

UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)

Yes No

The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use With Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation. *Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.*

External Manual Disconnect Switch:

An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'

Yes No

Location of External Manual Disconnect Switch: On steel pedestal of solar array.

Project Estimated Install Date: 2017 Project Estimated In-Service Date: 2017

Interconnecting Customer Signature:

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the **Terms and Conditions for Simplified Process Interconnections** attached hereto:

Customer Signature: Cynthia C. Patalano Title: Owner

Print Name: Cynthia Patalano Date: 5/30/17

Please include a one-line and/or three-line diagram of proposed installation. Diagram must indicate the generator connection point in relation to the customer service panel and the Eversource meter socket. Applications without such a diagram may be returned.

For Eversource Use Only

Approval to Install Facility:

Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this Agreement, and agreement to any system modifications, if required.

Are system modifications required? Yes No To be Determined

Company Signature: Shehual Motta Title: Sr. Engineer Date: 6/20/17