



## *Alternative Power Solutions*

of NY, LLC

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Syracuse, NY 13208  
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*A Renewable Energy Company*

*Forrest English-Loeb • Project Manager*

*E-mail: [english@apsolny.com](mailto:english@apsolny.com)*

### **Description of work to be completed -**

Alternative Power Solutions is proposing a ground mounted array at 200 Coon Hill Rd Skaneateles, NY.

This array will have 32 Silfab 490w with a maximum output of 11.4kW, and 32 Power Optimizers with a maximum AC output of 11.4kW. This system will be net metered, grid tie-in, and will not have any back-up batteries onsite

## GENERAL NOTES

### 1.1.1 PROJECT NOTES:

1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS' LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.

1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.

1.1.4 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4; PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929; 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY.

1.1.5 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.

1.1.6 ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING (NEC 110.3).

1.1.7 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

### 1.2.1 SCOPE OF WORK:

1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ON-SITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE GROUND-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT.

### 1.3.1 WORK INCLUDES:

1.3.3 PV RACKING SYSTEM INSTALLATION - SUNMODO SUNTUF GROUND MOUNT

1.3.4 PV MODULE AND INVERTER INSTALLATION - SILFAB SOLAR SIL-490HN / SOLAREEDGE SE11400H-US (240V)

1.3.5 PV EQUIPMENT GROUNDING

1.3.6 PV SYSTEM WIRING TO A GROUND-MOUNTED JUNCTION BOX

1.3.7 PV LOAD CENTERS (IF INCLUDED)

1.3.8 PV METERING/MONITORING (IF INCLUDED)

1.3.9 PV DISCONNECTS

1.3.10 PV FINAL COMMISSIONING

1.3.11 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV

1.3.12 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

### SCOPE OF WORK

SYSTEM SIZE:

(1) SILFAB SOLAR SIL-490HN

(1) SOLAREEDGE SE11400H-US (240V)

ATTACHMENT TYPE: SUNMODO SUNTUF GROUND MOUNT

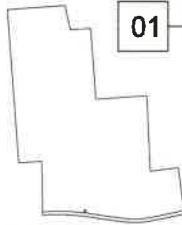
MSP UPGRADE: NO

# NEW PV SYSTEM: 11.760kWp G. ROJAS RESIDENCE

2005 COON HILL ROAD  
SKANEATELES, NY 13152  
SBL: 035-02-07.0



01 AERIAL PHOTO  
NOT TO SCALE



COON HILL ROAD

02 PLAT MAP  
NOT TO SCALE



## SHEET LIST TABLE

SHEET NUMBER	COVER PAGE
T-001	COVER PAGE
A-100	SITE PLAN OVERVIEW
A-101	SITE PLAN
A-102	GROUND-MOUNT LAYOUT
E-600	ELECTRICAL DIAGRAM
E-601	PLACARDS/LABELS
R-500	RESOURCE DOCUMENT
R-501	RESOURCE DOCUMENT
R-502	RESOURCE DOCUMENT
R-003	RESOURCE DOCUMENT
R-004	RESOURCE DOCUMENT
R-005	RESOURCE DOCUMENT
R-006	RESOURCE DOCUMENT

## PROJECT INFORMATION

OWNER NAME: GABRIEL ROJAS

PROJECT MANAGER  
NAME: FORREST ENGLISH-LOEB  
PHONE: (315) 314-6930

CONTRACTOR  
NAME: ALTERNATIVE POWER SOLUTIONS  
PHONE: (315) 314-6930

AUTHORITIES HAVING JURISDICTION  
BUILDING: TOWN OF SKANEATELES  
ZONING: TOWN OF SKANEATELES  
UTILITY: NATIONAL GRID  
ZONING DISTRICT:

DESIGN SPECIFICATIONS  
RISK CATEGORY: II  
CONSTRUCTION: SINGLE-FAMILY  
AGRICULTURAL DISTRICT  
GROUND SNOW LOAD: 50 PSF  
WIND EXPOSURE: C  
WIND SPEED: 115 MPH

APPLICABLE CODES & STANDARDS  
BUILDING: NYSBC 2020, NYSRC 2020  
ELECTRICAL: NEC 2017  
ZONING: NYSFC 2020



## CONTRACTOR

ALTERNATIVE POWER SOLUTIONS OF NY, LLC.

PHONE: (315) 314-6930

ADDRESS: 100 KRATZ AVE.  
SYRACUSE, NY 13208

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PV SYSTEM SIZE: 11.76 kWp  
NEW PV SYSTEM INSTALL  
2005 COON HILL ROAD  
SKANEATELES, NY 13152

GABRIEL ROJAS  
RESIDENCE

## LEGEND

TITLESHEET

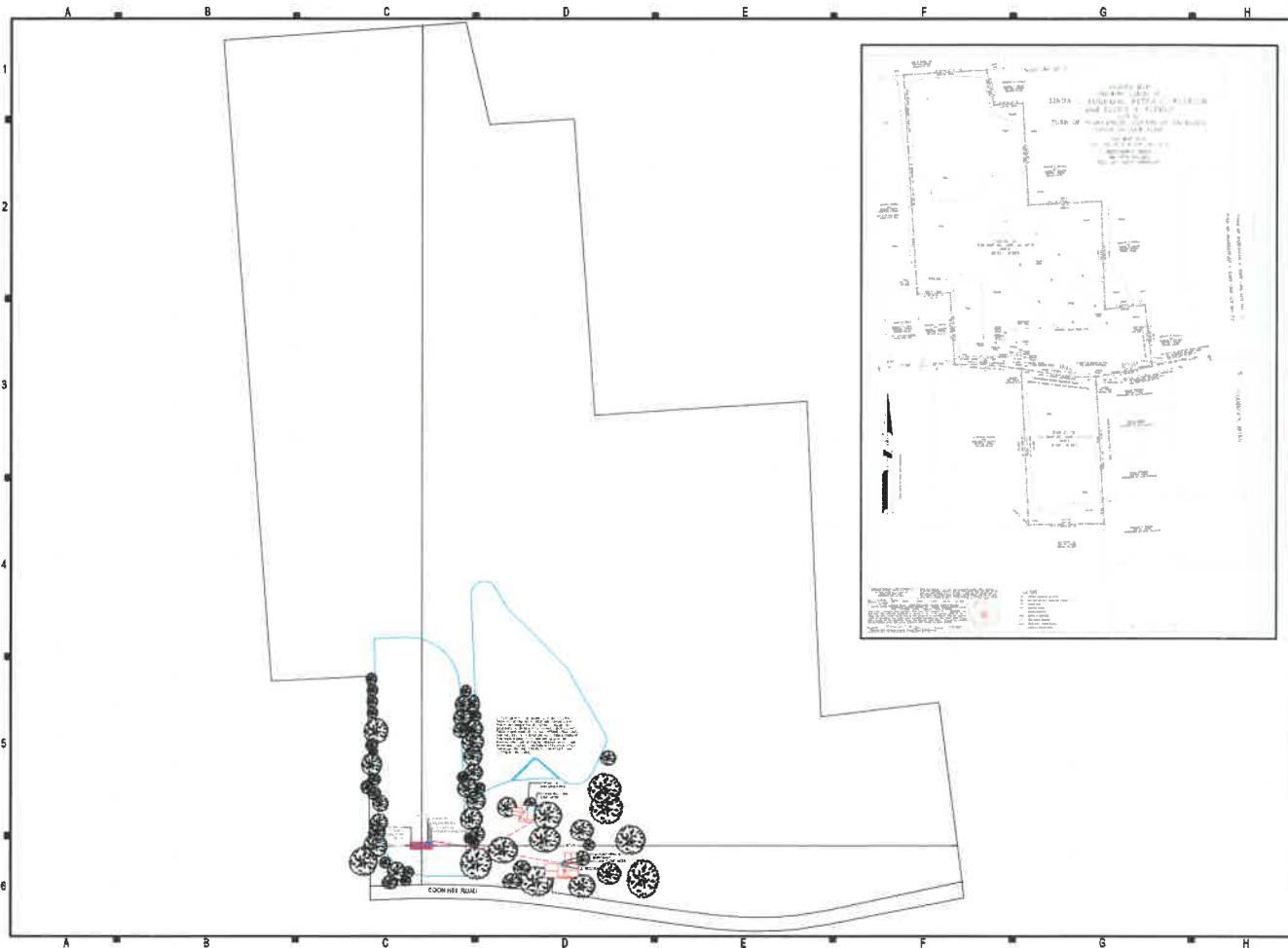
## ENGINEER OF RECORD

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DESIGN BY: LIAM MCMAHON

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**SITE PLAN  
OVERVIEW**

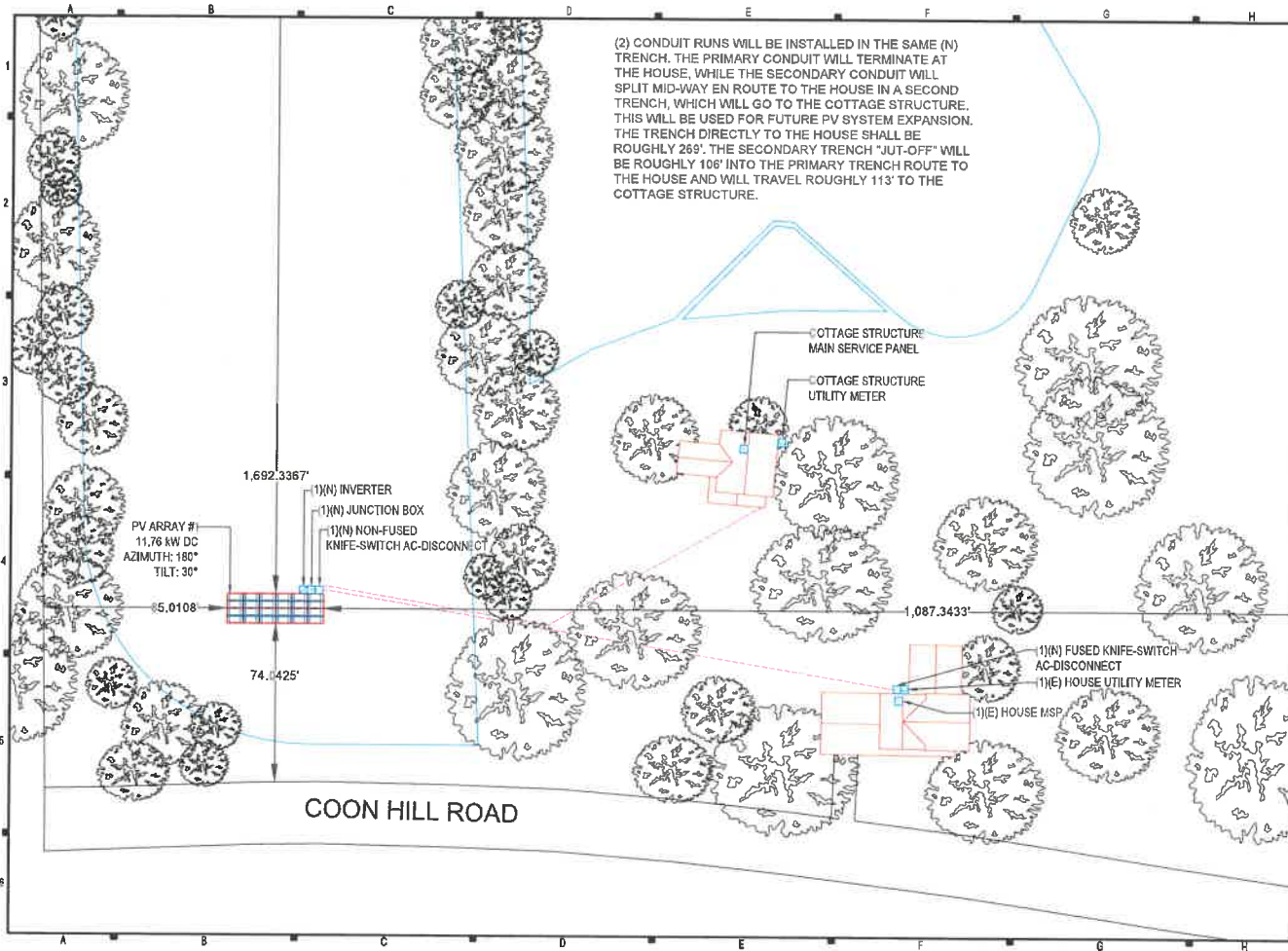
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**Alternative Power Solutions**  
LLC

315.314.6890

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**GABRIEL ROJAS**  
**RESIDENCE**

**LEGEND**

**SITE PLAN**

TRENCH | MIN. 18"

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**ENGINEER OF RECORD**

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