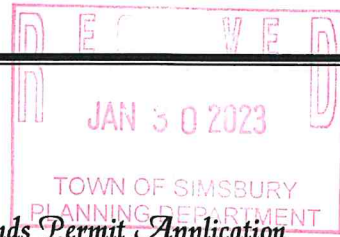




Town of Simsbury

Office of Community Planning and Development - Inland Wetlands Permit Application



DATE: 1/25/23 FEE: \$ 240.00 CK #: 22884 APP #: 23-03

PROPERTY ADDRESS: 1 Highwood, Simsbury, CT 06070

NAME OF APPLICANT: Jacob Schneider - Earthlight Technologies LLC

MAILING ADDRESS: 128 West Rd Ellington, CT 06029

EMAIL ADDRESS: resipermits@earthlighttech.com TELEPHONE # 860-871-9700

NAME OF OWNER: Stephen Sepulveda

MAILING ADDRESS: 1 Highwood, Simsbury, CT 06070

EMAIL ADDRESS: scsp85@gmail.com TELEPHONE # (480) 586-6321

NOTE: ATTACH A WRITTEN LETTER OF AGENCY, DULY ACKNOWLEDGED, TO ACT FOR THE OWNER, INCLUDING THE ABILITY TO CARRY OUT ACTIVITIES SET FORTH HEREIN.

DESCRIBE THE SPECIFIC ACTIVITY(ies) FOR WHICH A PERMIT IS SOUGHT AS IT RELATES TO "REGULATED ACTIVITIES" AS DEFINED IN SECTION 6 OF THE SIMSBURY INLAND WETLANDS REGULATIONS, SUCH AS: A) REMOVE MATERIAL FROM; B) DEPOSIT MATERIAL IN OR DISCHARGE TO; C) CONSTRUCT ON; D) OBSTRUCT; E) ALTER; F) POLLUTE; OR G) OTHERWISE ADVERSELY AFFECT A REGULATED AREA:

Installation & wiring of a ground mounted 20.400kW grid tied solar PV system consisting of (48) SunPower SPR-M425-H-AC modules and inverters.

CERTIFICATIONS AND PERMISSIONS:

As owner, I hereby give permission to the Town of Simsbury's Conservation Commission Inland Wetlands Watercourses Agency, their Agents, or Town Staff to enter upon my land to make observations and tests as may be necessary to evaluate this application and ongoing work, subject to twenty-four hours notice of such entry/testing.

I hereby certify that all statements herein are true to the best of my knowledge, whether made by me or my agents. Any permit issued shall be contingent upon field conditions and activities being substantiated as indicated herein. A changed situation shall require reconsideration of the permit by the Commission upon discovery by either party.

I certify that I have the authority to sign this application.

Stephen Sepulveda
Stephen Sepulveda (Jan 25, 2023 13:52 MST)

Jan 25, 2023

Signature of Owner

Date

Jacob Schneider
Signature and Title of Applicant

1-26-23

Date

EXHIBIT 1

www.simsbury-ct.gov

933 Hopmeadow Street
Simsbury, CT 06070

Paid-check # 22884 \$240.00

3. Depth to water table, depth to mottled soil, and seasonal variation of water table.
4. Describe the immediate impact on the wetlands and watercourses, including, but not limited to:
 - a. Quantities, by volume and area disturbed, of materials to be removed, deposited, or altered.
 - b. Kinds of materials by soil types and vegetative classifications, and materials classification to be removed, deposited, or altered.
 - c. Percent of wetlands/watercourses disturbed or altered to total area of wetlands/watercourses on the parcel.
5. Describe the related construction activities and their impact on:
 - a. Area and location of wetlands and watercourses.
 - b. Types and amounts of vegetation.
 - c. Surface and groundwater.
 - d. Visual impacts.
 - e. Wildlife habitats.
6. Describe the long term or permanent impact of the activity(ies) on environmental aspects, such as the surface and groundwater quality, storm water runoff, visual impact(s), or wildlife habitats on:
 - a. Wetlands and/or watercourses.
 - b. Abutting riparian properties and/or wetlands and/or watercourses.
7. Identify sedimentation and erosion control measures to be used.
8. Identify alternatives to the proposed activity that were considered, including alternative sites and why this one was chosen.
9. Estimate cost of work and time for completion.
10. Attach drainage calculations and other reports as indicated to substantiate the statements made above.

11. **REQUIRED MAPS**

- a. Attach a vicinity map on an 8 ½"x11" sheet at scale 1"=200' or 1"=800' (depending upon the size of the parcel) showing the general location of the area in which the regulated activity is proposed. The map should be in sufficient detail to allow the identification of the property on the official Inland Wetlands and Watercourses map. A guide to the kinds of information to be shown is available in the Planning Department at the Town Hall.







Wetlands Application to be Signed - Solar Project

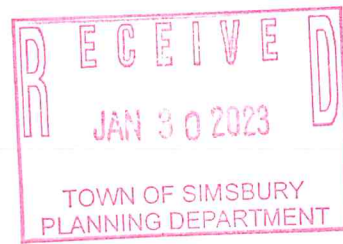
Final Audit Report

2023-01-25

| | |
|-----------------|----------------------------------------------|
| Created: | 2023-01-25 |
| By: | Earth Light (software6@earthlighttech.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAAP_VW2PcE-EWDqv2NFFEafHDx4rX1ul0o |

"Wetlands Application to be Signed - Solar Project" History

-  Document created by Earth Light (software6@earthlighttech.com)
2023-01-25 - 4:36:48 PM GMT - IP address: 71.26.135.57
-  Document emailed to scsp85@gmail.com for signature
2023-01-25 - 4:37:24 PM GMT
-  Email viewed by scsp85@gmail.com
2023-01-25 - 8:50:38 PM GMT - IP address: 107.126.24.94
-  Signer scsp85@gmail.com entered name at signing as Stephen Sepulveda
2023-01-25 - 8:52:00 PM GMT - IP address: 107.126.24.94
-  Document e-signed by Stephen Sepulveda (scsp85@gmail.com)
Signature Date: 2023-01-25 - 8:52:02 PM GMT - Time Source: server- IP address: 107.126.24.94
-  Agreement completed.
2023-01-25 - 8:52:02 PM GMT



earthlight
solar & energy solutions

To: Building Department

Date: 01/05/2023

Earthlight Technologies, LLC is an electrical contractor working under the E1 License of the owner, Timothy J. Schneider.

Please allow Jacob Schneider to sign the building and electrical permits required for the Solar PV installation at the address of 1 Highwood, Simsbury, CT 06070.

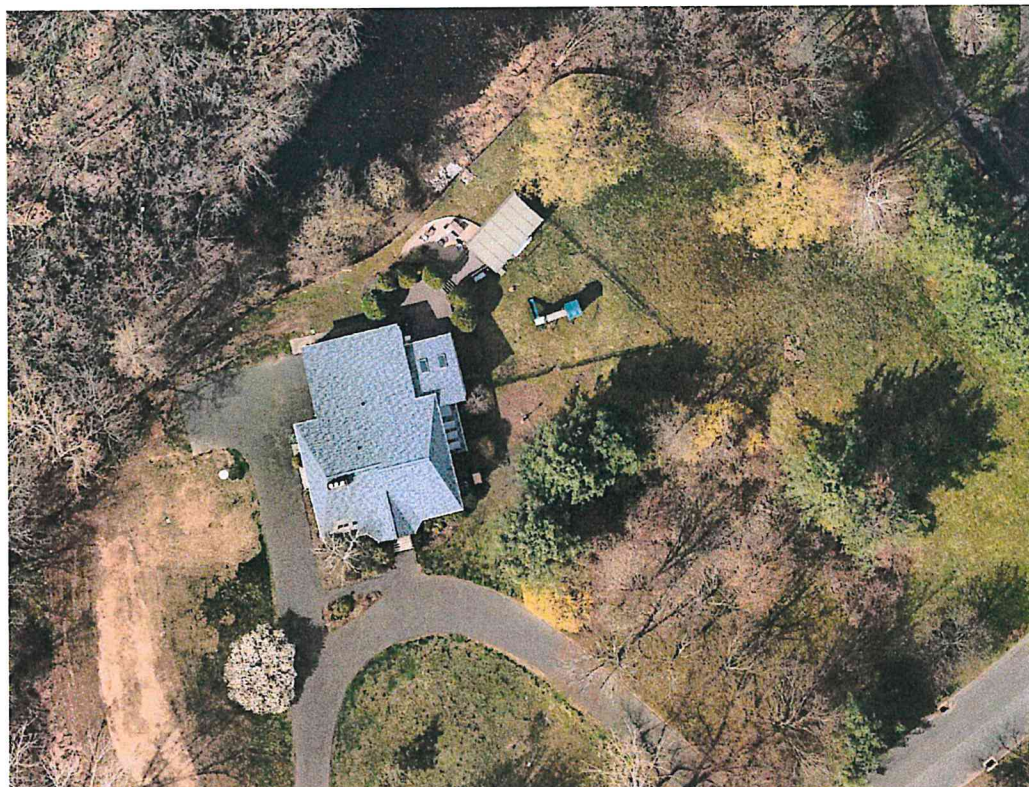
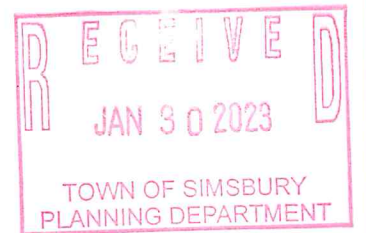
Thank you!

Timothy J. Schneider
Earthlight Technologies, LLC
92 West Road, Ellington, CT 06029
860-871-9700

NEW GROUND MOUNTED PV SYSTEM: 20.40 KW DC / 18.432 KW AC

STEPHEN & JACKLYN SEPULVEDA

1 HIGHWOOD, SIMSBURY, CT 06070



AERIAL PHOTO (NOT TO SCALE)

SCOPE OF WORK

SOLAR:
 (48) SUNPOWER SPR-M425-H-AC
 (48) SUNPOWER TYPE H (ENPHASE IQ7HS)

ENERGY STORAGE:
 — N/A
 — N/A

ATTACHMENTS:
 PEGASUS SOLAR - COMP BLACK
 SUNPOWER INVISIMOUNT



EXHIBIT 2

SHEET LIST

| SHEET NUMBER | SHEET TITLE |
|--------------|-----------------------------|
| G-1 | COVER PAGE |
| PV-1 | ARRAY LAYOUT |
| PV-2 | SITE LAYOUT |
| PV-3 | ROOF STRUCTURE DETAIL |
| PV-4 | CIRCUIT LAYOUT |
| PV-5 | ONE-LINE ELECTRICAL DIAGRAM |
| PV-6 | PLACARD SHEET |

CUSTOMER: Stephen & Jacklyn
 Sepulveda
 1 Highwood, Simsbury, CT 06070

COVER PAGE

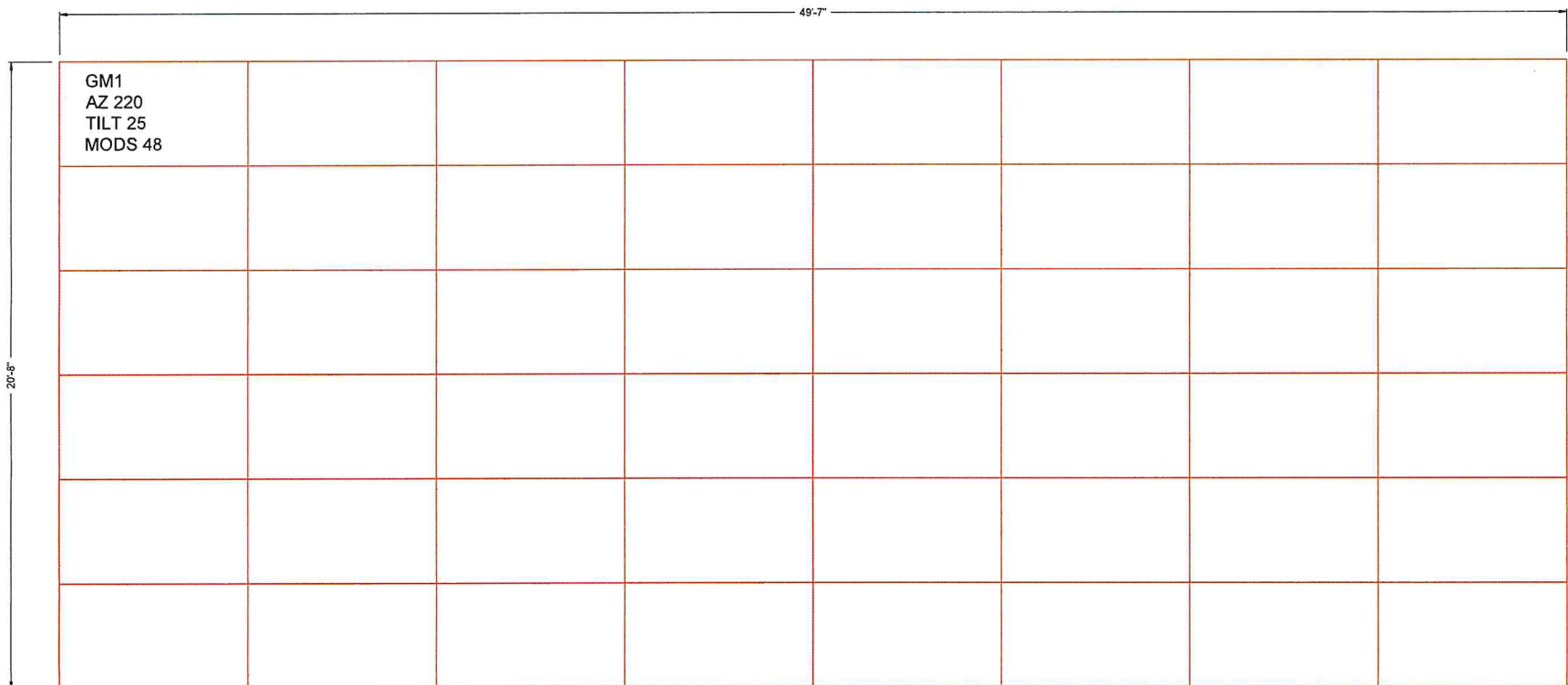
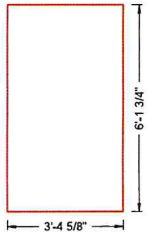
| | |
|--------------------------------------|-----------------------------|
| SYSTEM SIZE (DC): 20.40 kW | SYSTEM SIZE (AC): 18.432 kW |
| MODULES: (48) SunPower SPR-M425-H-AC | ENERGY STORAGE: — N/A |
| DRAWN BY: Ian Bucholz | SITE TECH: Travis Zuidema |
| DATE: December 16, 2022 | REV: 1 |



Earthlight
 Technologies, LLC
 128 West Road
 Ellington, CT 06029
 Phone: 860-871-9700
 Contractor HIC: 0636767
 earthlighttech.com

PAGE:

G-1



CUSTOMER: Stephen & Jacklyn
 Sepulveda
 1 Highwood, Simsbury, CT 06070

ARRAY LAYOUT

| | |
|--------------------------------------|-----------------------------|
| SYSTEM SIZE (DC): 20.40 kW | SYSTEM SIZE (AC): 18.432 kW |
| MODULES: (48) SunPower SPR-M425-H-AC | ENERGY STORAGE: — N/A |
| DRAWN BY: Ian Bucholz | SITE TECH: Travis Zuidema |
| DATE: December 16, 2022 | REV: 1 |

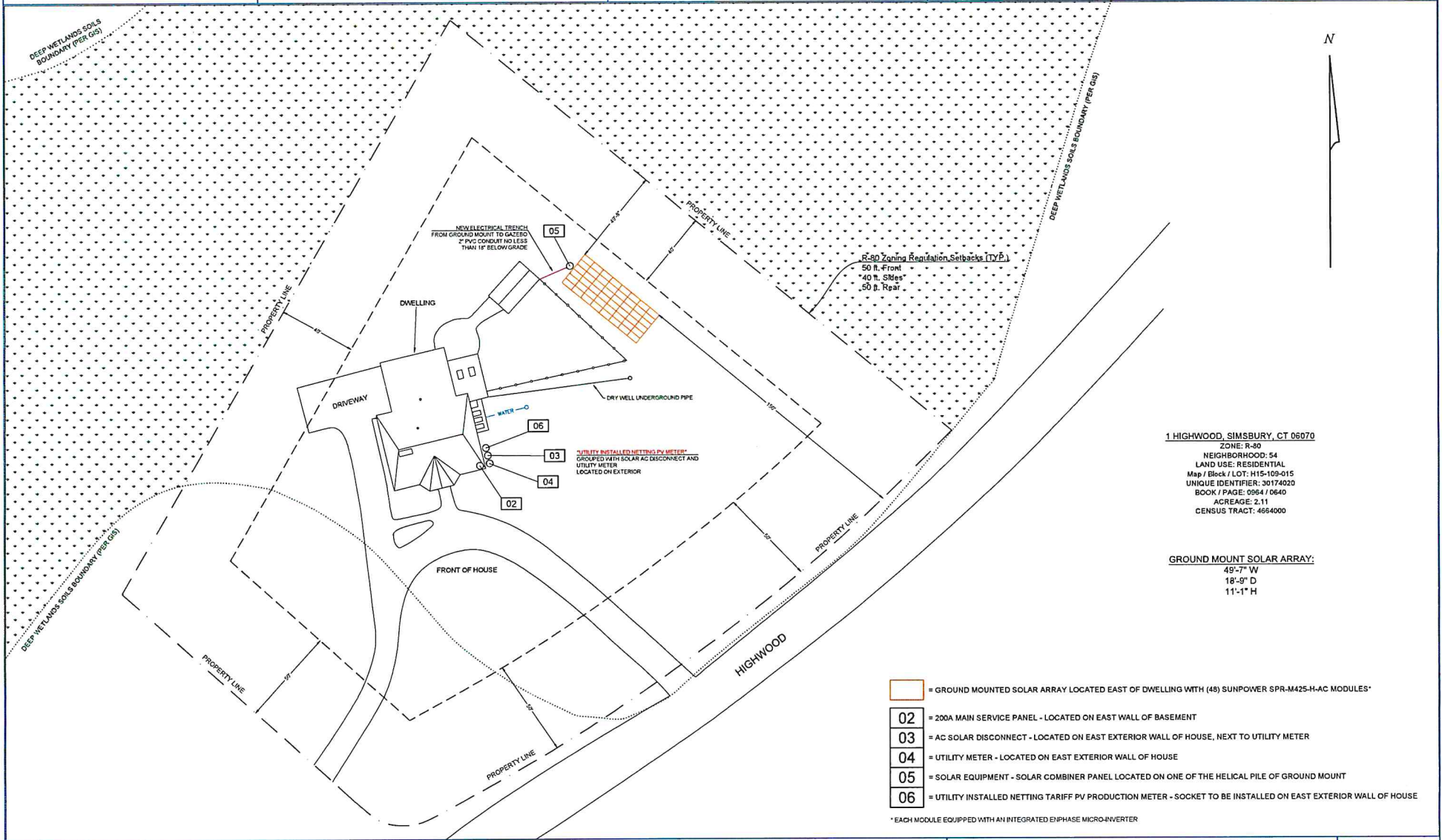



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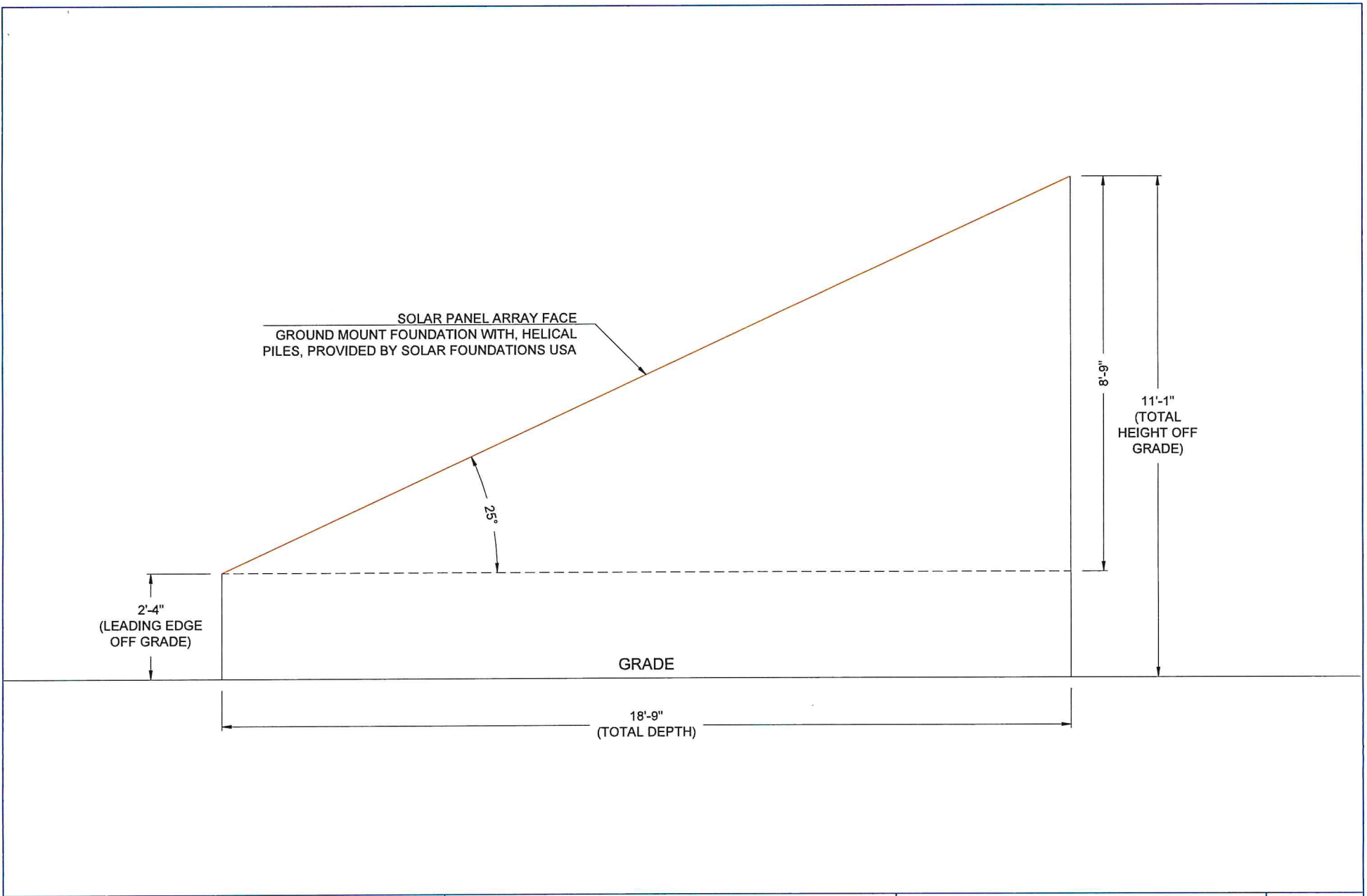
PAGE:

PV-1

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| TOTAL PV ARRAY LOAD OUTPUT 20.40 KW DC 18.432 KW AC OPERATING CURRENT: 76.80A OVERCURRENT PROTECTION: 96.00A OPERATING VOLTAGE: 240V | SOLAR MODULE INFORMATION (NEC 690.51) (48) MODULES MODULE: SUNPOWER SPR-M425-H-AC NOMINAL POWER (P _{nom}): 425W MAXIMUM POWER VOLTAGE (V _{mpp}): 240V MAXIMUM POWER CURRENT (I _{mpp}): 1.60A | INVERTER INFORMATION (48) MICROINVERTERS MODEL: SUNPOWER TYPE H (ENPHASE IQ7HS) NOMINAL AC VOLTAGE: 240V MAX. CONTINUOUS OUTPUT CURRENT: 1.60A MAX. AC CONTINUOUS OUTPUT: 384W MAX. UNITS PER 20A BRANCH CIRCUIT: 10 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|



| | | | | | | |
|------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| CUSTOMER: Stephen & Jacklyn Sepulveda 1 Highwood, Simsbury, CT 06070 | SITE LAYOUT | SYSTEM SIZE (DC): 20.40 kW MODULES: (48) SunPower SPR-M425-H-AC DRAWN BY: Ian Bucholz DATE: December 16, 2022 | SYSTEM SIZE (AC): 18.432 kW ENERGY STORAGE: — N/A SITE TECH: Travis Zuidema REV: 1 |  earthlight SOLAR AND ENERGY SOLUTIONS | Earthlight Technologies, LLC 128 West Road Ellington, CT 06029 Phone: 860-871-9700 Contractor HIC: 0636767 earthlighttech.com | PAGE: PV-2 |
|------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|



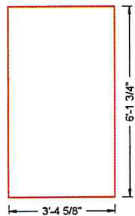
CUSTOMER: Stephen & Jacklyn
Sepulveda
1 Highwood, Simsbury, CT 06070

| ROOF STRUCTURE DETAIL | |
|--------------------------------------|-----------------------------|
| SYSTEM SIZE (DC): 20.40 kW | SYSTEM SIZE (AC): 18.432 kW |
| MODULES: (48) SunPower SPR-M425-H-AC | ENERGY STORAGE: — N/A |
| DRAWN BY: Ian Bucholz | SITE TECH: Travis Zuidema |
| DATE: December 16, 2022 | REV: 1 |



earthlight
SOLAR AND ENERGY SOLUTIONS

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128 West Road
Ellington, CT 06029
Phone: 860-871-9700
Contractor HIC: 0636767
earthlighttech.com

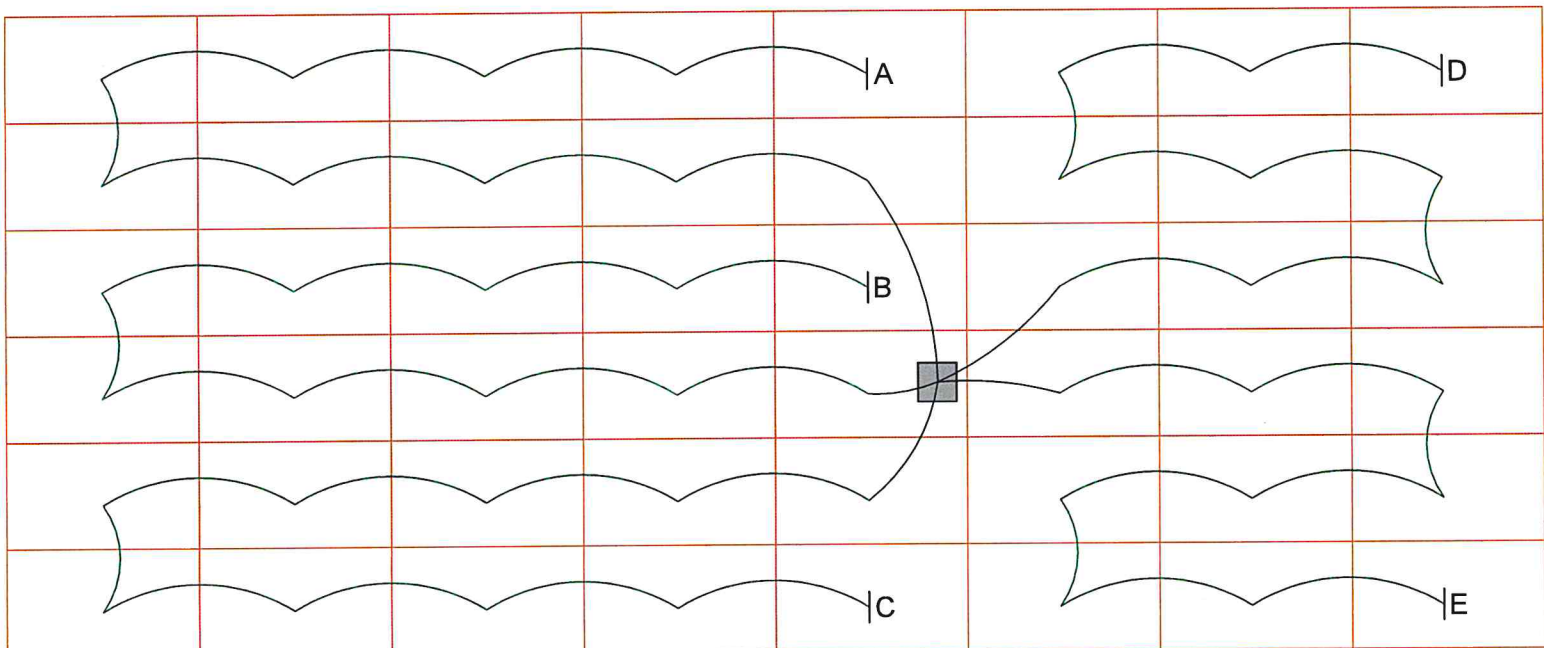


| Circuit | Panels | Wire Run | AWG |
|---------|--------|----------|-----|
| A | 10 | 30' | #10 |
| B | 10 | 30' | #10 |
| C | 10 | 30' | #10 |
| D | 9 | 30' | #10 |
| E | 9 | 30' | #10 |

■ = Junction Box

* Wire run is calculated from junction box to load center

GM1
AZ 220
TILT 25
MODS 48



CUSTOMER: Stephen & Jacklyn
Sepulveda
1 Highwood, Simsbury, CT 06070

CIRCUIT LAYOUT

| | |
|--------------------------------------|-----------------------------|
| SYSTEM SIZE (DC): 20.40 kW | SYSTEM SIZE (AC): 18.432 kW |
| MODULES: (48) SunPower SPR-M425-H-AC | ENERGY STORAGE: — N/A |
| DRAWN BY: Ian Bucholz | SITE TECH: Travis Zuidema |
| DATE: December 16, 2022 | REV: 1 |

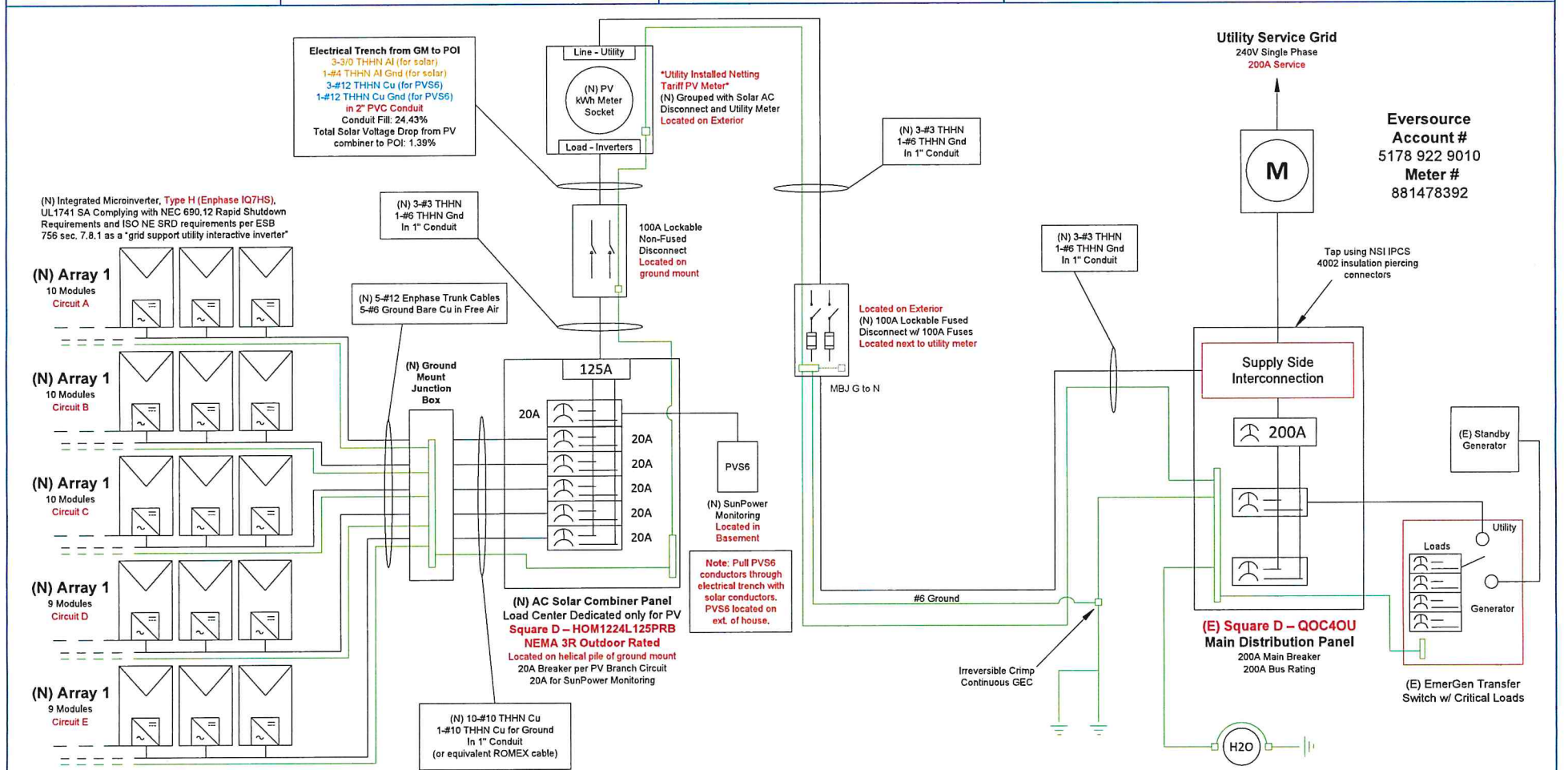


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Technologies, LLC
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Phone: 860-871-9700
Contractor HIC: 0636767
earthlighttech.com

PAGE:

PV-4

| TOTAL PV ARRAY LOAD OUTPUT 20.40 KW DC 18.432 KW AC OPERATING CURRENT: 76.80A OVERCURRENT PROTECTION: 96.00A OPERATING VOLTAGE: 240V | SOLAR MODULE INFORMATION (NEC 690.51) (48) MODULES MODULE: SUNPOWER SPR-M425-H-AC NOMINAL POWER (P _{nom}): 425W MAXIMUM POWER VOLTAGE (V _{mpp}): 240V MAXIMUM POWER CURRENT (I _{mpp}): 1.60A | INVERTER INFORMATION (48) MICROINVERTERS MODEL: SUNPOWER TYPE H (ENPHASE IQ7HS) NOMINAL AC VOLTAGE: 240V MAX. CONTINUOUS OUTPUT CURRENT: 1.60A MAX. AC CONTINUOUS OUTPUT: 384W MAX. UNITS PER 20A BRANCH CIRCUIT: 10 | DEVICE PICKUP SETTINGS AS PER ISO NE SRD AND ESB 756 SEC.7.6.11 <table border="1"> <thead> <tr> <th>DEVICE</th> <th>PICKUP SETTINGS</th> <th>DEFAULT CLEARING TIME (SEC)</th> </tr> </thead> <tbody> <tr> <td>UNDER FREQUENCY (81U)</td> <td>56.5 HZ</td> <td>0.16</td> </tr> <tr> <td>UNDER FREQUENCY (81U)</td> <td>58.5 HZ</td> <td>300</td> </tr> <tr> <td>OVER FREQUENCY (81O)</td> <td>61.2 HZ</td> <td>300</td> </tr> <tr> <td>OVER FREQUENCY (81O)</td> <td>62.0 HZ</td> <td>0.16</td> </tr> <tr> <td>UNDER VOLTAGE (27)</td> <td>50% OF NOM</td> <td>1.1</td> </tr> <tr> <td>UNDER VOLTAGE (27)</td> <td>88% OF NOM</td> <td>2</td> </tr> <tr> <td>OVER VOLTAGE (59)</td> <td>110% OF NOM</td> <td>2</td> </tr> <tr> <td>OVER VOLTAGE (59)</td> <td>120% OF NOM</td> <td>0.16</td> </tr> </tbody> </table> | DEVICE | PICKUP SETTINGS | DEFAULT CLEARING TIME (SEC) | UNDER FREQUENCY (81U) | 56.5 HZ | 0.16 | UNDER FREQUENCY (81U) | 58.5 HZ | 300 | OVER FREQUENCY (81O) | 61.2 HZ | 300 | OVER FREQUENCY (81O) | 62.0 HZ | 0.16 | UNDER VOLTAGE (27) | 50% OF NOM | 1.1 | UNDER VOLTAGE (27) | 88% OF NOM | 2 | OVER VOLTAGE (59) | 110% OF NOM | 2 | OVER VOLTAGE (59) | 120% OF NOM | 0.16 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-----------------------------|-----------------------|---------|------|-----------------------|---------|-----|----------------------|---------|-----|----------------------|---------|------|--------------------|------------|-----|--------------------|------------|---|-------------------|-------------|---|-------------------|-------------|------|
| DEVICE | PICKUP SETTINGS | DEFAULT CLEARING TIME (SEC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER FREQUENCY (81U) | 56.5 HZ | 0.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER FREQUENCY (81U) | 58.5 HZ | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER FREQUENCY (81O) | 61.2 HZ | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER FREQUENCY (81O) | 62.0 HZ | 0.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER VOLTAGE (27) | 50% OF NOM | 1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDER VOLTAGE (27) | 88% OF NOM | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER VOLTAGE (59) | 110% OF NOM | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVER VOLTAGE (59) | 120% OF NOM | 0.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



NOTES:
 1. Photovoltaic system grounding shall be installed per the requirements of articles 250, 690.41 through 690.50 of the national electric code, ANSINFPFA 70 and is the responsibility of the installer (includes AC grounding, PV grounding, and DC grounding electrode conductor).
 2. This system shall comply with the anti-islanding protective IEEE function numbers applying to the inverter system.
 3. The photovoltaic system shall comply with the solar photovoltaic systems AC Modules articles 690, 705.12(A)&(B) of the 2017 NEC: suggested standards and practices for grounding as per article 250.
 4. All conductors AC/DC are shielded and/or are within conduit.
 5. Minimum clearance conforms to NEC-110.26

| | | | |
|------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| CUSTOMER: Stephen & Jacklyn Sepulveda 1 Highwood, Simsbury, CT 06070 | ONE-LINE ELECTRICAL DIAGRAM | SYSTEM SIZE (DC): 20.40 kW MODULES: (48) SunPower SPR-M425-H-AC DRAWN BY: Ian Bucholz DATE: December 16, 2022 | SYSTEM SIZE (AC): 18.432 kW ENERGY STORAGE: --- N/A SITE TECH: Travis Zuidema REV: 1 |
|------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

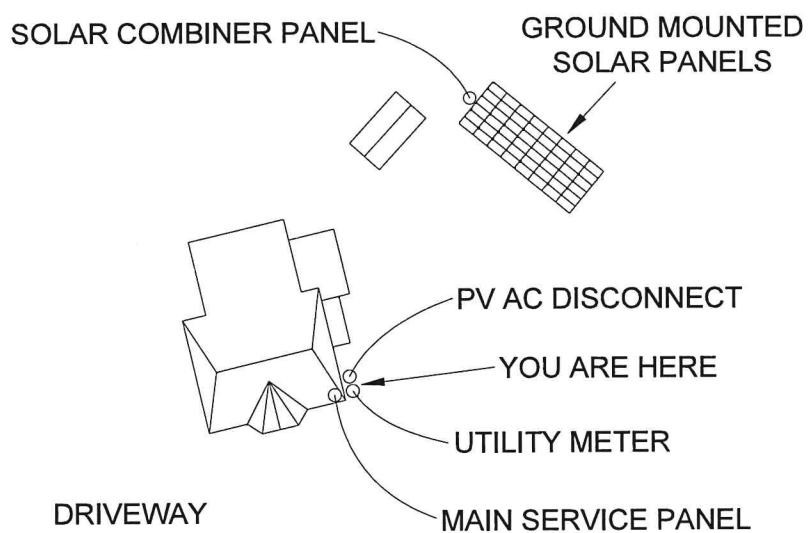


Earthlight Technologies, LLC
 128 West Road
 Ellington, CT 06029
 Phone: 860-871-9700
 Contractor IIC: 0636767
 earthlighttech.com

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CAUTION:

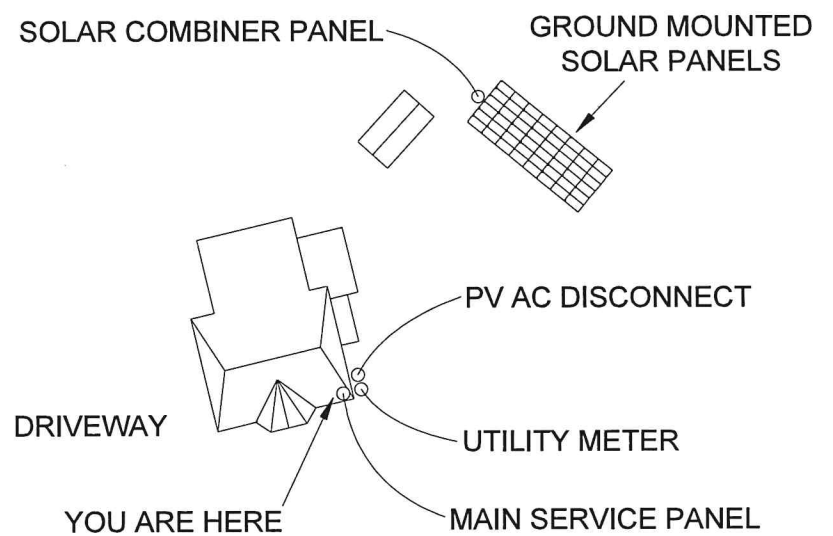
POWER FROM THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING POWER SOURCES WITH DISCONNECTS LOCATED AS SHOWN



1 HIGHWOOD, SIMSBURY, CT 06070

CAUTION:

POWER FROM THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING POWER SOURCES WITH DISCONNECTS LOCATED AS SHOWN



1 HIGHWOOD, SIMSBURY, CT 06070

CUSTOMER: Stephen & Jacklyn
Sepulveda
1 Highwood, Simsbury, CT 06070

PLACARDS

SYSTEM SIZE (DC): 20.40 kW
MODULES: (48) SunPower SPR-M425-H-AC
DRAWN BY: Ian Bucholz
DATE: December 16, 2022

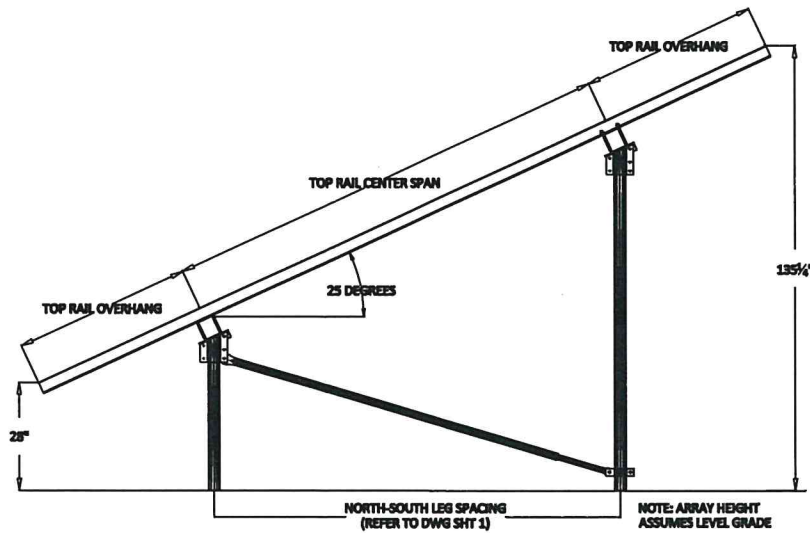
SYSTEM SIZE (AC): 18.432 kW
ENERGY STORAGE: — N/A
SITE TECH: Travis Zuidema
REV: 1



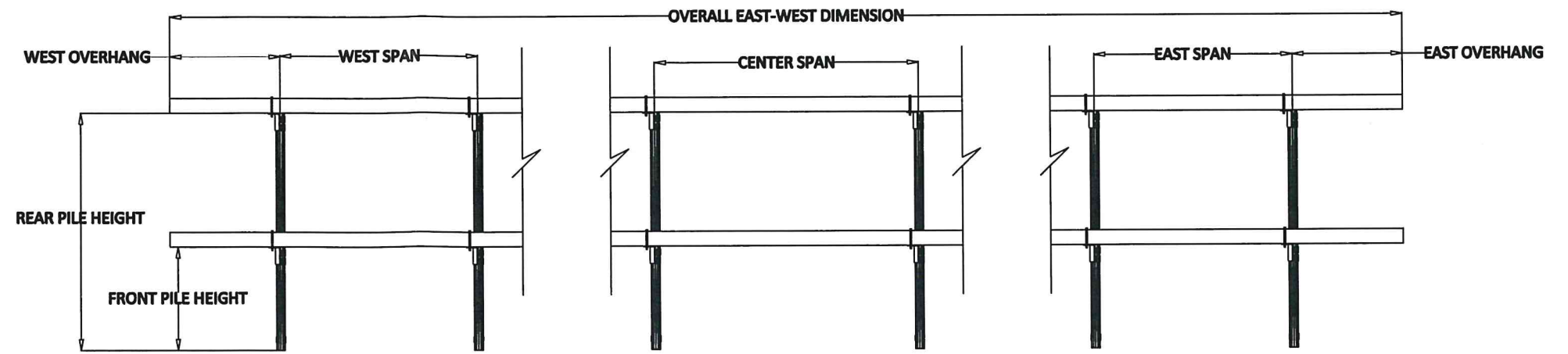
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earthlighttech.com

PAGE:

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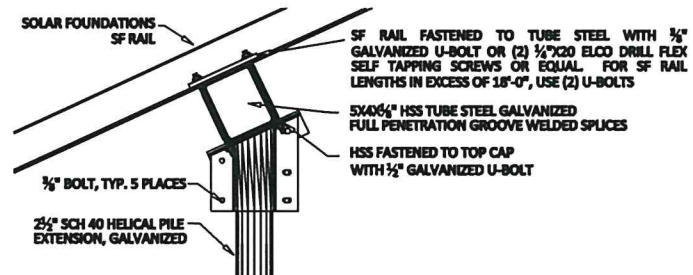


SIDE ELEVATION
N.T.S.

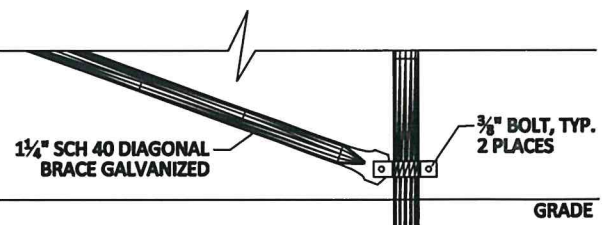


REFER TO DWG SHEET 1 FOR EAST-WEST PILE SPANS AND FRONT AND REAR PILE HEIGHTS

PILE SPACING ELEVATION
N.T.S.

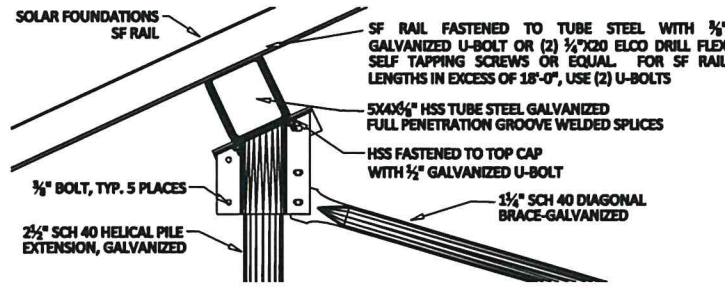


UPPER CAP DETAIL
N.T.S.



2 1/2" SCH 40 HELICAL PILE, ALL LOCATIONS, TYP.
CAPACITIES PER SITE DESIGN DATA TABLE
MINIMUM 60" DEPTH OR UNTIL LOAD BEARING STRATA REACHED

HELICAL PILE DETAIL
N.T.S.



LOWER CAP DETAIL
N.T.S.

James C Douglas
Digitally signed by James C Douglas
DN: cn=US, o=New York
dnQualifier=AD141DC000018000DF
316F00017C3D, cn=James C Douglas
Date: 2023.01.23 21:26:43 -05'00'



SHEET 2 OF 3

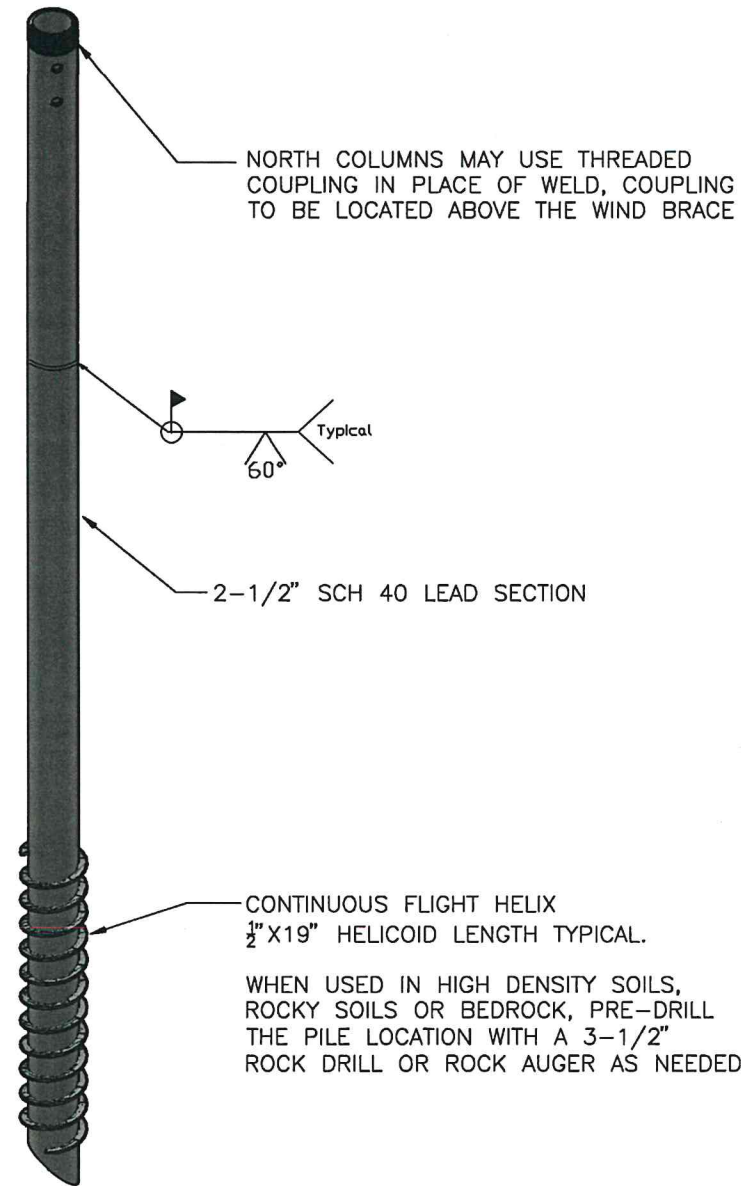
| DATE | REVISION | DRAWN BY: | REVIEW BY: |
|------------|----------|-----------|------------|
| 01/19/2023 | ORIGINAL | JB | JD |
| | | | |
| | | | |

EARTHLIGHT TECHNOLOGIES

PROJECT:
SEPULVEDA RESIDENCE
1 HIGHWOOD
SIMSBURY, CT 06070

Solar Foundations USA

1142 River Road, New Castle, DE 19720 Ph: (855) 738-7200 Fax: (866) 644-5665



HELICAL PILE DETAIL
N.T.S.

SPECIFICATION REQUIREMENTS:

THE FOLLOWING MATERIAL SPECIFICATION REQUIREMENTS PERTAIN TO THE FABRICATION OF THE SOLAR FOUNDATIONS USA GROUND MOUNT SOLAR SUPPORT STRUCTURE AS INDICATED ON THESE DRAWINGS.

1. SOLAR FOUNDATION ALUMINUM RAILS SHALL CONFORM TO ASTM B221.
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 HIGH YIELD (60 KSI).
3. STEEL PIPE FOR PILES SHALL CONFORM TO ASTM A500 GRADE C.
4. STEEL PILE EXTENSIONS SHALL BE ASTM A53 GRADE B.
5. STEEL PIPE FOR DIAGONAL BRACING SHALL BE ASTM A53 GRADE A.
6. FABRICATED STEEL PLATE FOR COLUMN CAP ASSEMBLIES, BRACING CLAMPS, ETC. SHALL BE ASTM A36 OR A1011.
7. STEEL BOLTS FOR CAP FASTENERS SHALL CONFORM TO SAE J429 GRADE 5. ALL OTHER BOLTS SHALL CONFORM TO SAE J429 GRADE 5 OR BETTER.
8. STEEL U-BOLTS SHALL CONFORM TO ASTM 1018.
9. USS FLAT STEEL WASHERS SHALL CONFORM TO ASTM F844 AND NUTS FOR STEEL CONNECTIONS SHALL CONFORM TO ASTM A563 GRADE A.
10. ALL FIELD WELDING SHALL CONFORM TO AWS D1.1/D1.1M -STRUCTURAL WELDING CODE REQUIREMENTS.
11. ALL STEEL SHALL BE HOT-DIP GALVANIZED PER ASTM A123 OR A153 AFTER ALL FABRICATION HAS BEEN COMPLETED.

INSTALLATION REQUIREMENTS:

1. THE MINIMUM AVERAGE INSTALLATION TORQUE REQUIRED TO OBTAIN THE REQUIRED INDICATED CAPACITIES AND THE MINIMUM INSTALLATION DEPTH SHOWN ON THE PLANS SHALL BE SATISFIED PRIOR TO TERMINATION OF THE INSTALLATION. THE INSTALLATION TORQUE SHALL BE AN AVERAGE OF THE INSTALLATION TORQUES INDICATED DURING THE LAST 1 FOOT OF INSTALLATION.
2. THE TORSIONAL STRENGTH RATING OF THE TORQUE ANCHOR SHALL NOT BE EXCEEDED DURING THE INSTALLATION. IF THE TORSIONAL STRENGTH LIMIT OF THE ANCHOR HAS BEEN REACHED, BUT THE ANCHOR HAS NOT REACHED THE TARGET DEPTH, PERFORM THE FOLLOWING:
 - 2.1. IF THE TORSIONAL STRENGTH LIMIT IS ACHIEVED PRIOR TO REACHING THE TARGET DEPTH, THE INSTALLATION MAY BE ACCEPTABLE IF REVIEWED AND APPROVED BY THE ENGINEER.
 - 2.2. THE INSTALLER MAY REMOVE THE TORQUE ANCHOR AND INSTALL A NEW ONE WITH SMALLER DIAMETER HELICAL PLATE.
 - 2.3. IF USING A CONTINUOUS FLIGHT PILE, PRE-DRILL THE PILE LOCATION WITH A 3-1/2" ROCK AUGER OR 3-5/8" ROCK DRILL AS NEEDED.
3. IF THE TARGET DEPTH IS ACHIEVED, BUT THE TORSIONAL REQUIREMENT HAS NOT BEEN MET THE INSTALLER MAY DO ONE OF THE FOLLOWING:
 - 3.1. INSTALL THE TORQUE ANCHOR DEEPER TO OBTAIN THE REQUIRED CAPACITY
 - 3.2. REMOVE THE TORQUE ANCHOR AND INSTALL A NEW ONE WITH A LARGER DIAMETER HELICAL PLATE OR ONE WITH MULTIPLE HELICAL PLATES.
 - 3.3. REDUCE THE LOAD CAPACITY ON THE INDIVIDUAL TORQUE ANCHOR BY PROVIDING ADDITIONAL TORQUE ANCHORS AT A REDUCED SPACING.

James C Douglas
Digitally signed by James C Douglas
 DN: cn=James C Douglas, o=Solar Foundations USA, email=jcdouglas@solarfnd.com, c=US
 Date: 2023.01.23 21:27:16 -0500



SHEET 3 OF 3

| DATE | REVISION | DRAWN BY: | REVIEW BY: |
|------------|----------|-----------|------------|
| 01/19/2023 | ORIGINAL | JB | JD |
| | | | |
| | | | |

EARTHLIGHT TECHNOLOGIES

PROJECT:
SEPULVEDA RESIDENCE
 1 HIGHWOOD
 SIMSBURY, CT 06070

Solar Foundations USA

1142 River Road, New Castle, DE 19720 Ph: (855) 738-7200 Fax: (866) 644-5665



Amendment to Solar Energy Home Improvement Contract

This Amendment to Solar Energy System Home Improvement Contract (this "Amendment") is entered into by and between Customer(s) (as described below) and Earthlight Technologies, LLC.

THIS AMENDMENT SUPPLEMENTS THE TERMS AND CONDITIONS OF YOUR SOLAR ENERGY SYSTEM HOME IMPROVEMENT CONTRACT, DATED 9/26/2022 (THE "CONTRACT") ENTERED INTO WITH EARTHLIGHT TECHNOLOGIES WITH RESPECT TO A SOLAR PHOTOVOLTAIC SYSTEM THAT HAS BEEN OR WILL BE INSTALLED AT YOUR HOME. ALL CAPITALIZED TERMS USED BUT NOT DEFINED HEREIN SHALL HAVE THE MEANINGS ASCRIBED THERETO IN THE CONTRACT.

System Size

20.400 kW Est. Year 1 Production 21428 kWh

Panel Type

SPR-M425-H-AC - 425 (Quantity: 48)

Inverter Type

SunPower Type H Microinverter (Quantity: 48)

Racking System

Solar Foundations USA

Additional Equipment

\$ _____

Pricing

Cost Before Incentives: \$ 97312.00
Estimated Incentive(s): \$ _____
Estimated Additional Incentive(s): \$ _____
Net Cost To Be Paid/Financed by Customer \$ 97312.00
Net Cost To Be Paid Directly by Customer (not financed) \$ 0.00

Financial Addendum


First Installment due at **Contract Signing** \$ 0.00
Second Installment due upon approval of final design \$ 0.00
Third Installment due upon day of installation \$ 0.00
Fourth Installment due upon energization of the system \$ 0.00



- a. Except as otherwise expressly provided in this Addendum, all of the terms, conditions, agreements, and understandings contained in the Contract shall remain unchanged and in full force and effect and the same are hereby expressly ratified and confirmed the Customer(s) and Earthlight Technologies. Any references to the Contract herein or in the Contract shall mean the Contract as modified by this Addendum.
- b. This Addendum is governed by the law of the state where Customer's House is located, and, to the extent applicable, federal law.
- c. Facsimile, PDF signatures, or electronic signatures may be used with the same force and effect as if they were a duly executed original.

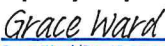
Amendment to Solar Energy Home Improvement Contract

Customer's Signature(s):

By: 
Stephen Sepulveda (Dec 15, 2022 18:25 EST)
Name: Stephen Sepulveda
Date: 12/15/22

By: _____
Name: _____
Date: _____

Company Representative Signature:

By: 
Grace Ward (Dec 15, 2022 16:57 EST)
Name: Grace Ward
Title: Post-Sale Admin
Date: 12/15/2022








Amendment to Home Improvement Contract - Stephen Sepulveda-

Final Audit Report

2022-12-15

| | |
|-----------------|----------------------------------------------|
| Created: | 2022-12-15 |
| By: | Grace Ward (grace@earthlighttech.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAA05dXBwA8ROXaYgZpi6u3bN6LIRdp8qCy |

"Amendment to Home Improvement Contract - Stephen Sepulveda-" History

-  Document created by Grace Ward (grace@earthlighttech.com)
2022-12-15 - 9:56:21 PM GMT
-  Document e-signed by Grace Ward (grace@earthlighttech.com)
Signature Date: 2022-12-15 - 9:57:27 PM GMT - Time Source: server
-  Document emailed to scsp85@gmail.com for signature
2022-12-15 - 9:57:28 PM GMT
-  Email viewed by scsp85@gmail.com
2022-12-15 - 11:25:00 PM GMT
-  Signer scsp85@gmail.com entered name at signing as Stephen Sepulveda
2022-12-15 - 11:25:50 PM GMT
-  Document e-signed by Stephen Sepulveda (scsp85@gmail.com)
Signature Date: 2022-12-15 - 11:25:52 PM GMT - Time Source: server
-  Agreement completed.
2022-12-15 - 11:25:52 PM GMT



Contract

Earthlight Technologies, LLC

92 West Road

Ellington, CT 06029

(860) 871-9700

eltinfo@earthlighttech.com

Home Improvement Contractor Registration Number

HIC.0636767

CT Electrical License Number:

ELC 104854-E1

Home Improvement Salesperson License Number

Cara Santoro, HIS.0560259

Customer Information

Name: Stephen Sepulveda

Address: 1 Highwood, Simsbury, CT 06070

Phone: (480) 586-6321

Email: scsp85@gmail.com

Pricing

TOTAL SOLAR SYSTEM COST \$ 97312.50

ADDITIONAL EQUIPMENT TO BE INSTALLED
\$ _____

_____ \$ _____

NET COST TO CUSTOMER State Incentive: \$ 97312.50

Is the Customer financing the solar system? Yes No

Name of Lender (term): Sungage 20 Years

Amount to be paid directly by Customer (not financed): \$ _____

Financial Addendum

Cash transactions follow the following payment schedule.

\$ 0.00 First Installment due at **Contract Signing**

\$ 0.00 Second Installment due upon approval of final design

\$ 0.00 Third installment due upon day of installation

\$ 0.00 Fourth installment due upon energization of the system

The system cost includes solar modules, inverters, labor, monitoring, permits, grid interconnection, design and engineering, and trenching up to 75 feet. This trenching allowance assumes open access to the proposed trench for trenching equipment. Outside factors including, but not limited to, limited access to the trench or trenching under pavement, ledge, or any other hard surface shall fall outside the scope of the trenching allowance under this Agreement and shall be addressed under a separate amendment.

*The availability of tax credits is dependent on individual taxpayer information and not guaranteed by Earthlight. The availability and amount of any rebates and/or performance-based incentives are subject to change and not guaranteed by the paying party or Earthlight.

*Consult your lender for disbursement schedule and terms & conditions.

If the Customer is in default or otherwise in violation of any term or condition of this Agreement, the customer shall be liable to Earthlight for its damages, liabilities, defenses, costs, and expenses (including but not limited to reasonable attorney's fees) arising out of such default or violation, or the enforcement of this Agreement. If the customer fails to pay Earthlight any sum of money due to the violation, the customer shall pay any cost or expense, including reasonable attorney's fees, incurred by Earthlight in collecting the payment, and any overdue payment shall be subject to interest which shall accrue at an annual rate of eighteen percent commencing the sixteenth day after the payment is due until the payment is made in full.

Unless specified clearly in the pricing section above, such corrective work is not covered by this Agreement. And you may either (i) pay for such corrective work in addition to the Total Contract Price listed above or (ii) terminate this Agreement without penalty or fee. If you incorporate such corrective work into your solar finance, you agree to include the cost of the corrective work plus applicable finance fees.

Furthermore, both parties will have the right to terminate this Agreement, without penalty or fee, if we determine after the engineering site audit of your Premises that we have misrepresented by more than ten percent (10%) any of (1) the System size, (2) the System's total cost, or (3) the System's originally estimated annual production. If neither party exercises their right to terminate this Agreement following such 10% change, then any changes to the System will be documented in an amendment to this Agreement. You authorize us to make corrections to the utility paperwork to conform to this Agreement or any amendments to this Agreement we both sign.

If you cancel your project following the engineering site audit but prior to providing written approval of the solar and/or energy storage system design layout, you will receive a refund of your first installment, minus any payments made to a third party contractor for work not expressly performed by Earthlight (ie. New roof, main service panel upgrade, etc).

If you cancel your project following the engineering site audit and after providing written approval of the final solar and/or energy storage system design layout, you agree to pay a cancellation fee to help offset costs incurred for permitting fees, interconnection application costs, and/or design costs.

d. Customer Responsibilities

Before Earthlight conducts an engineering site audit of your Premises, you agree to furnish a recent copy of your electrical bill, homeowner insurance policy, and any other documentation required by the state or utility.

You agree that if (i) the System needs any repairs that are not our responsibility under either SunPower's Limited Warranty or Earthlight's Craftsmanship Warranty (as defined in Appendix A) or (ii) you would like to have the System removed or moved and reinstalled to facilitate remodeling or your home, Earthlight will perform such repairs, removal, and reinstallation at your expense.

You agree not to alter, modify, or change the System without the express written consent of Earthlight. If you do in any way alter the System without the express consent of Earthlight, any warranties relating to the System will immediately become null and void.

e. Batteries

If your System as described in this Contract includes a "solar battery" or energy storage component, it is expressly agreed that you will not modify, alter, change, and/or hire any third-party to perform service, maintenance, or any other work in connection with the solar battery, unless the third party has been approved by Earthlight. You will not rely solely upon the solar battery for energy production. You agree that energy from a solar battery shall not be relied upon as the sole source of energy for the use of life support or medical devices.

i. Entire Agreement; Amendments; Benefit of Agreement

This Agreement contains the entire agreement of the Customer and Contractor regarding the subject matter of this Agreement. Any amendment or other change to this Agreement must be in writing and signed by both parties. The Customer may not require Earthlight to perform extra or change-order work beyond the scope of the work detailed in the Agreement. Any extra work must be clearly defined in an amendment and signed by both parties.

Signatures

I have read the Agreement and appendices in their entirety, and I agree to the terms. I also acknowledge that I have received a complete copy of this Agreement and appendices.

Customer Name: Stephen Sepulveda Date: 09/26/2022

Customer Signature: 
Stephen Sepulveda (Sep 26, 2022 19:16 EDT)

Customer Name: _____ Date: _____

Customer Signature: _____

Energy Analyst Name: Cara Santoro Date: 09/26/2022

Energy Analyst Signature: 
Cara Santoro (Sep 26, 2022 19:08 EDT)

Appendix A

Warranty Information

SunPower Limited Product and Power Warranty Overview for Residential AC & DC Modules

The limited warranty described below and provided in its entirety at sunpower.com/homesolarwarranty is effective for SunPower® photovoltaic modules for residential installation with “SPR-X” or “SPR-E” or “SPR-A” or “SPR-M” and “AC” in the product model number and sold after July 1, 2019.

Limited Warranty

Subject at all times to the terms and conditions as set out in the limited warranty, SunPower Corporation (“SunPower”) warrants that for 25 years beginning on the Warranty Start Date¹, its photovoltaic modules specified above, including factory integrated electronics, (“PV Module(s)”), shall be free from defects in materials and workmanship under normal application, installation, use and service conditions, and the power of the PV Modules will be at least 98% of the Minimum Peak Power² rating for the first year, and will decline by no more than 0.25% per year for the following 24 years, so the power output at the end of the final year of the 25th year warranty period will be at least 92% of the Minimum Peak Power rating.

For a copy of the full warranty including, but not limited to assignment rights, exclusions and limitations please visit SunPower's website at: sunpower.com/homesolarwarranty

Why SunPower is the better choice:



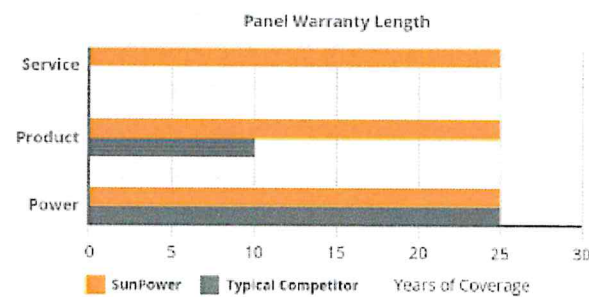
60% more energy in the same space over 25 years³



Rated #1 for durability⁴



The industry's best 25-year Combined Power and Product Warranty



With over 30 years as a leader in solar, it's no wonder SunPower was chosen the #1 most requested brand by global experts.⁵

¹ “Warranty Start Date” is the earlier of (i) date of array interconnection and (ii) 6 months following the date of delivery by SunPower. If the delivery date cannot be verified, manufacturing date will be used in its place.

² “Minimum Peak Power” is defined as the minimum rated power, as shown on the label. Peak Power is defined as the watt peak at Standard Test Conditions (1000W/m² irradiance, AM1.5, 25C. SOMS current, LACCS FF and Voltage from NREL calibration), as described in IEC61215, measured per IEC60904, and accounting for 3% measurement tolerance. SunPower modules shall, in any event, require a sweep rate of no less than 200ms to ensure an accurate power measurement. SunPower can provide a detailed testing procedure or a list of recognized testing agencies upon request.

³ SunPower 360W compared to a Conventional Panel on same sized arrays (260W, 16% efficient, approx. 1.6 m²), 4% more energy per watt (based on PVsyst pan files), 0.75%/yr slower degradation (Campeau, Z. et al. “SunPower Module Degradation Rate,” SunPower white paper, 2013).

⁴ “Fraunhofer PV Durability Initiative for Solar Modules: Part 3”. PVTech Power, 2015.

⁵ Gilligan, C., et al. 2015 PV Module Customer Insight Survey. HIS Consulting.

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Appendix B

Installation Timeline

Engineering Site Audit Completion

2-4 Weeks, dependent on scheduling

Once we have received copies of your signed contract, electrical bill, and homeowner insurance, our Solar Administrative Coordinator will contact you to schedule an Engineering Site Audit. One of our Project Managers will visit your home to confirm your system design, verify measurements and shade readings, gather structural information, and inspect your main electrical panel.

Design Approval

1-3 Weeks

Following your Engineering Site Audit, the Project Manager will make any necessary adjustments and will submit your design to our Structural Engineer. If we determine that electrical or structural upgrades are needed to proceed, your solar analyst will contact you with pricing for such corrective work.

Permitting and Interconnection Approval

4-6 Weeks

Once the System's design and engineering are approved, the Project Management Team will submit all necessary paperwork to your town for permitting and to the utility for interconnection approval. Generally, this process takes 4-6 weeks, but timing may vary depending on your local utility or the capabilities of your town's building department. The utility's engineers will assess the current grid profile and determine if an electrical upgrade will be necessary prior to the System's installation. If upgrades are necessary, Earthlight will generate an Amendment for signature. If Customer elects not to sign the Amendment, then either party may terminate this Agreement without penalty or fee.

Solar Installation

1-3 Days

After we have received the permit and interconnection approval, we will contact you to schedule a date for your installation. Most installations are completed in 1-3 days, depending on the size of the System and structural upgrades required. The town inspector will then approve the project and submit approval to your local utility.

Utility Interconnection

3-5 Weeks (up to 8 Weeks for United Illuminating customers)

The utility company will visit your home and replace your current meter with a net meter. Once the meter is installed, you will receive an email from the utility with an Approval to Energize.

RELEASE PERIOD – This authorization covers Data for the period starting 18 months before the date below and ending at the time of decommissioning of the BESS.

TERMS & CONDITIONS – The Energy Storage Solutions Eligible Contractor or Third-Party Owner (TPO) agrees to and will incorporate the following terms into each agreement / lease / power purchase agreement between the Contractor and Customer and/or TPO if an Energy Storage Solutions incentive is requested, and will ensure that Customer provides signature as proof of agreement to these terms:

1. Neither the Connecticut Green Bank, Eversource Energy, United Illuminating (Program Administrators) nor the State of Connecticut: (1) endorses the workmanship of any Contractor; nor (2) guarantees, warranties, or in any way represents or assumes liability for any work proposed or carried out by a Contractor. Additionally, the Program Administrators are not responsible for assuring the design, engineering, and construction of any BESS is proper or complies with any particular laws, regulations, codes, licensing, certification and permit requirements, or industry standards. The Program Administrators do not make any representations of any kind regarding the results to be achieved by the system or the adequacy or safety of such measures.
2. Where applicable, Contractor shall pass on to the Customer 100% of the Upfront Incentive as an upfront reduction in the total price of the BESS.
3. Customer understands that completing this Data Release and Terms & Conditions Agreement does not guarantee approval for incentive(s) or participation in the Program.
4. Where applicable, Contractor and/or TPO and Customer shall ensure and submit confirmation that a Home Energy Solutions or equivalent energy efficiency auditor has audited the location of the BESS prior to incentive disbursement.
5. No BESS receiving Upfront and/or Performance-Based Incentives shall be removed from the State of Connecticut for the 10 years of the Energy Storage Solutions program contract.
6. Contractor and/or TPO and Customer agree to install a revenue-grade meter and an approved webbased monitoring system on PV system and maintain working connection with the Distributed Energy Resource Management System (DERMS) dispatch platform for the useful life of the battery energy storage system.
7. Contractor and/or TPO and Customer acknowledge that the Program Administrators maintain the right to inspect all residential PV systems prior to disbursement of incentive payment. Customer should make reasonable effort to coordinate with the inspector to allow inspection to take place.
8. Contractor and/or TPO and Customer acknowledge that the Connecticut Green Bank is a public agency for purposes of the Connecticut Freedom of Information Act (FOIA). Any material submitted to the Green Bank will be considered a public record and will be subject to disclosure under FOIA. Under Connecticut General Statute §1-210(b) and § 16-245n(d), FOIA includes exemptions for trade secret and

Appendix D

Notice of Cancellation

CONTRACT DATE: 09/26/2022

You may CANCEL this transaction, without any Penalty or Obligation, within THREE BUSINESS DAYS from the above date.

If you cancel, any property traded in, any payments made by you under the contract or sale, and any negotiable instrument executed by you will be returned within TEN BUSINESS DAYS following receipt by the seller of your cancellation notice, and any security interest arising out of the transaction will be canceled.

If you cancel, you must make available to the seller at your residence, in substantially as good condition as when received, any goods delivered to you under this contract or sale, or you may, if you wish, comply with the instructions of the seller regarding the return shipment of the goods at the seller's expense and risk.

If you do make the goods available to the seller and the seller does not pick them up within 20 days of the date of your Notice of Cancellation, you may retain or dispose of the goods without any further obligation. If you fail to make the goods available to the seller, or if you agree to return the goods to the seller and fail to do so, then you remain liable for performance of all obligations under the contract.

To cancel this transaction, mail or deliver a signed and dated copy of this Cancellation Notice or any other written notice to

Earthlight Technologies, LLC, at 92 West Road, Ellington, CT 06029

NOT LATER THAN MIDNIGHT OF

09/29/2022

I HEREBY CANCEL THIS TRANSACTION.

_____ [DATE].

Buyer's Signature: _____

Please print name: _____

Addendum to Solar Energy Home Improvement Contract

This Addendum to Solar Energy System Home Improvement Contract (this "Addendum") is entered into by and between Customer(s) (as described below) and Earthlight Technologies, LLC.

THIS ADDENDUM SUPPLEMENTS THE TERMS AND CONDITIONS OF YOUR SOLAR ENERGY SYSTEM HOME IMPROVEMENT CONTRACT, DATED 9/30/2022 (THE "CONTRACT") ENTERED INTO WITH EARTHLIGHT TECHNOLOGIES WITH RESPECT TO A SOLAR PHOTOVOLTAIC SYSTEM THAT HAS BEEN OR WILL BE INSTALLED AT YOUR HOME. ALL CAPITALIZED TERMS USED BUT NOT DEFINED HEREIN SHALL HAVE THE MEANINGS ASCRIBED THERETO IN THE CONTRACT.

- a. Customer(s) and Earthlight Technologies hereby acknowledge that Customer(s) shall be eligible to receive a rebate in the amount of \$ N/A directly from Earthlight Technologies. If the Customer(s) purchases their solar array directly without Earthlight or SunPower-provided solar financing, Earthlight shall send the rebate payment to the Customer(s) once they have paid in full. Otherwise, Earthlight Technologies shall send the rebate payment in the form of a check to the Customer(s) once the solar array has been energized.
- b. Customer(s) and Earthlight Technologies hereby acknowledge that Customer(s) shall be eligible to receive a manufacturer's rebate in the amount of \$ N/A from SunPower. Once Earthlight receives payment in full from the Customer, financing party, and the state or utility incentive, Earthlight shall send a paid in full invoice to SunPower to initiate processing of the rebate. Once the rebate is approved, SunPower shall send the rebate payment in the form of a visa gift card to the Customer(s).
- c. Except as otherwise expressly provided in this Addendum, all of the terms, conditions, agreements, and understandings contained in the Contract shall remain unchanged and in full force and effect and the same are hereby expressly ratified and confirmed the Customer(s) and Earthlight Technologies. Any references to the Contract herein or in the Contract shall mean the Contract as modified by this Addendum.
- d. The terms, conditions, agreements, and understandings contained in this Addendum shall apply only to Customer, and it shall not be transferred to any future owner of the photovoltaic array.
- e. This Addendum is governed by the law of the state where Customer's House is located, and, to the extent applicable, federal law.
- f. Facsimile, PDF signatures, or electronic signatures may be used with the same force and effect as if they were a duly executed original.








Earthlight Solar Agreement for Stephen Sepulveda-

Final Audit Report

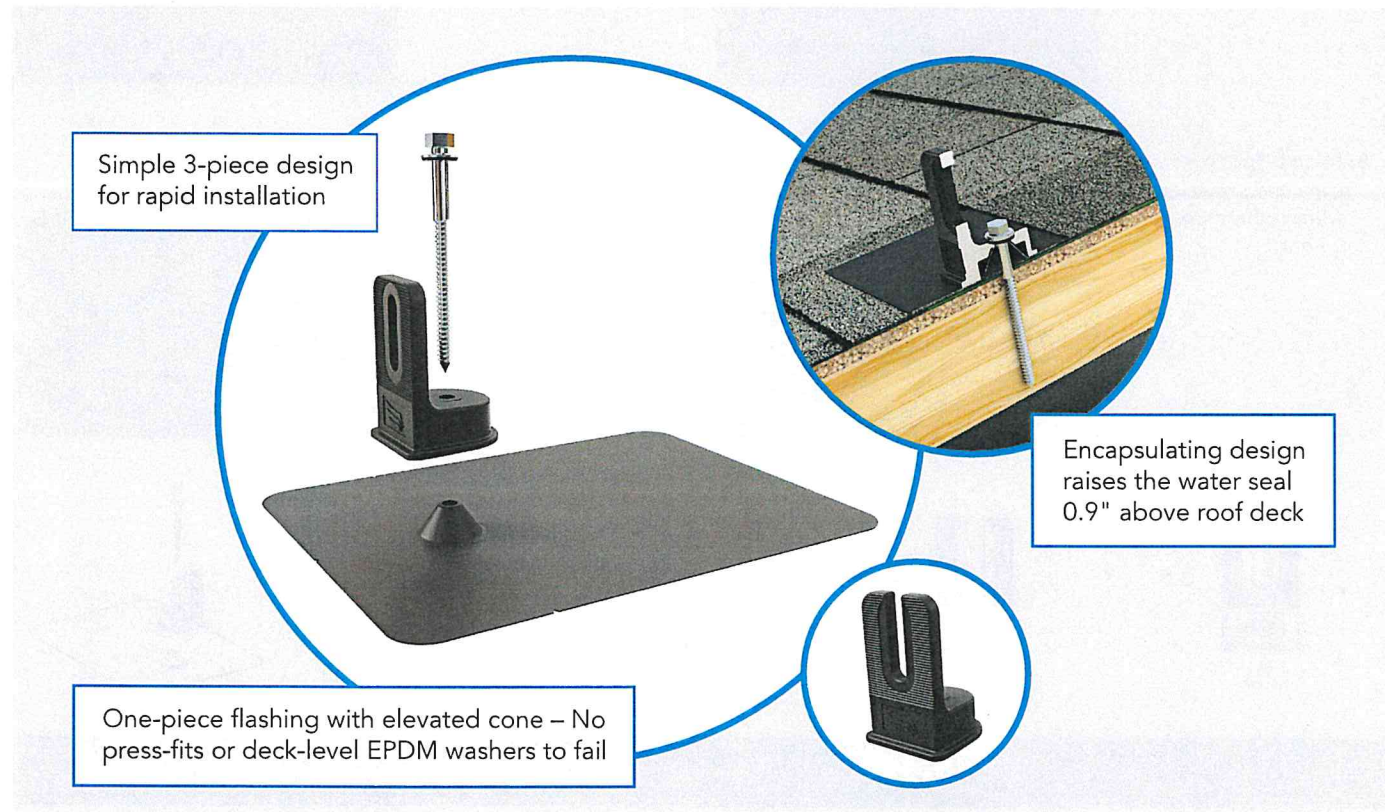
2022-09-26

| | |
|-----------------|----------------------------------------------|
| Created: | 2022-09-26 |
| By: | Cara Santoro (cara@earthlighttech.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAAz3CnmA-8Wfe0a-ADoSm_Pk008AP1Vrfq |

"Earthlight Solar Agreement for Stephen Sepulveda-" History

-  Document created by Cara Santoro (cara@earthlighttech.com)
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-  Document e-signed by Cara Santoro (cara@earthlighttech.com)
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-  Document emailed to scsp85@gmail.com for signature
2022-09-26 - 11:08:26 PM GMT
-  Email viewed by scsp85@gmail.com
2022-09-26 - 11:08:38 PM GMT- IP address: 76.24.181.242
-  Signer scsp85@gmail.com entered name at signing as Stephen Sepulveda
2022-09-26 - 11:16:56 PM GMT- IP address: 76.24.181.242
-  Document e-signed by Stephen Sepulveda (scsp85@gmail.com)
Signature Date: 2022-09-26 - 11:16:58 PM GMT - Time Source: server- IP address: 76.24.181.242
-  Agreement completed.
2022-09-26 - 11:16:58 PM GMT

COMP MOUNT – BLACK



WATERTIGHT FOR LIFE

Pegasus Solar's Comp Mount is a cost effective, high-quality option for rail installations on composition shingle roofs. Designed to last decades, the one-piece flashing with elevated cone means there is simply nothing to fail.



25-year Warranty

Manufactured with advanced materials and coating to outlast the roof itself



Superior Waterproofing

Tested to AC286 without sealant
0.9" elevated water seal



Code Compliant

Fully IBC/CBC Code Compliant
Exceeds ASCE 7-10 Standards



All-In-One Kit Packaging

Flashings, L-Feet and SS lags with bonded EPDM washers are included in each 24-pack

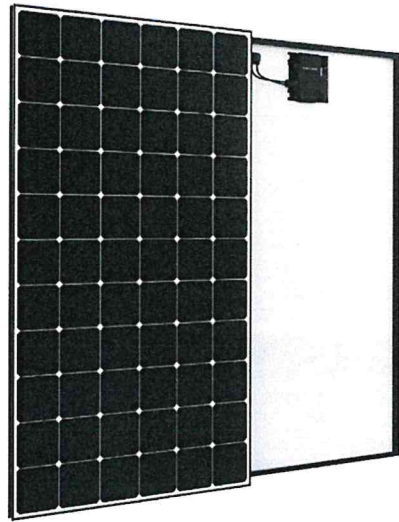
EXHIBIT 5



420-440W Residential AC Module

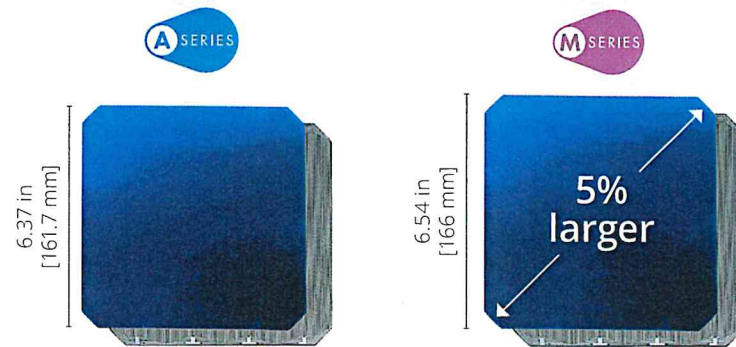
SunPower® Maxeon® Technology

Built specifically for use with the SunPower Equinox® system, the only fully integrated solar solution designed, engineered, and warranted by one company.



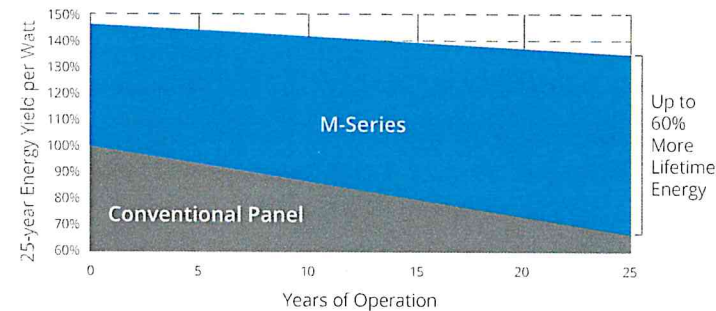
Highest Power AC Density Available.

The patented, solid-copper foundation Maxeon Gen 6 cell is over 5% larger than prior generations, delivering the highest efficiency AC solar panel available.*



Highest Lifetime Energy and Savings

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.¹

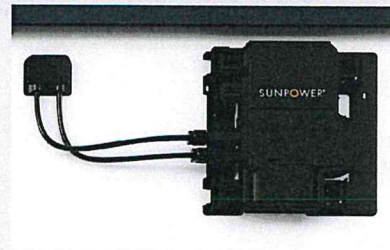


Best Reliability, Best Warranty

With more than 42.6 million and 15 GW modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our module and microinverter with the industry's best 25-year Combined Power and Product Warranty.

Part of the SunPower Equinox® Solar System

- Compatible with mySunPower™ monitoring
- Seamless aesthetics



Factory-integrated Microinverter

- Highest-power integrated AC module in solar
- Engineered and calibrated by SunPower for SunPower AC modules

Title Array Grounding and Bonding for New Equinox™ Installations, 536599
Date September 09, 2020
Authors Derek Fieldsoe and the SunPower Quality Team
Application Equinox® solar systems and InvisiMount® mounting systems

Overview

SunPower® Equinox™ systems must use a 6 AWG copper conductor for the equipment grounding conductor (EGC) on the roof when the EGC routes outside of a conduit or junction box. The conductor size requirement is based on National Electric Code (NEC) 690.46 and 250.122 (2017 and 2020 Editions). Even if the local authority having jurisdiction (AHJ) has approved an installation with smaller conductors in these conditions, SunPower requires compliance with these code provisions on all systems constructed under the SunPower lease and loan programs.

Summary and Expectation

Array EGCs must be sized according to 690.45, 690.46, 250.122, and 250.120(C). These requirements have been largely unchanged since the publication of the 2014 Edition. Language and references in this document, however, will refer to the 2017 NEC.

690.45 requires that the EGC be sized in accordance with 250.122. The EGC between a lug attached to a rail, and connected to the equipment grounding bus bar in a main service panel or subpanel meets the definition of an EGC subject to these requirements.

250.122 requires that the EGC be sized in accordance with Table 250.122. For AC module circuits connected to a 20 A breaker, Table 250.122 allows an EGC as small as 12 AWG.

690.46 restricts the use an EGC smaller than 6 AWG, requiring it to comply with 250.120(C). Specifically, 250.120(C) requires that an EGC smaller than 6 AWG must be protected by a raceway, *"unless installed within hollow spaces of the framing members of buildings or structures and where not subject to physical damage."* Some have misinterpreted that clause as allowing an electrician or AHJ to claim that the space between rails (racking) underneath an array qualifies as a space between framing members, or that other means of protection from physical damage would be allowed. But the clause is intended to apply to hollow spaces such as stud bays, and only applies to such spaces if they are not subject to physical damage.

Quality audits for SunPower Equinox installations across the nation have shown that a 10 AWG conductor is sometimes used as the equipment grounding conductor (EGC) from the array which enters the rooftop junction box.



SunPower® InvisiMount™ | Residential Mounting System

Simple and Fast Installation

- Integrated module-to-rail grounding
- Pre-assembled mid and end clamps
- Levitating mid clamp for easy placement
- Mid clamp width facilitates consistent, even module spacing
- UL 2703 Listed integrated grounding

Flexible Design

- Addresses sloped and low-sloped residential roofs
- Design in landscape and portrait with up to 8' rail span
- Pre-drilled rails and rail splice
- Rails enable easy obstacle management

Customer-Preferred Aesthetics

- Best-in-class system aesthetics
- Black anodized components
- Low-profile mid clamps and capped, flush end clamps

Part of Superior System

- Best-in-class system reliability and aesthetics
- Optional rooftop transition flashing, rail-mounted J-box, and wire management rail clips
- Combine with SunPower modules and mySunPower® monitoring app



Elegant Simplicity

SunPower® InvisiMount™ is a SunPower-designed rail-based mounting system. The InvisiMount system addresses residential sloped roofs and combines faster installation time, design flexibility, and superior aesthetics. Classic InvisiMount is specifically envisioned and engineered to pair with SunPower modules; Universal InvisiMount is compatible with a wide range of modules. The resulting system-level approach amplifies the installation and aesthetic benefits—for homeowners and for installers.

sunpower.com



STATE OF CONNECTICUT ♦ DEPARTMENT OF CONSUMER PROTECTION
Be it known that

TIMOTHY J SCHNEIDER
479 SOMERS RD
ELLINGTON, CT 06029-2521

has been certified by the Department of Consumer Protection as a licensed

ELECTRICAL UNLIMITED CONTRACTOR

License # ELC.0104854-E1

Effective: 10/01/2022

Expiration: 09/30/2023



Michelle Seagull, Commissioner

STATE OF CONNECTICUT ♦ DEPARTMENT OF CONSUMER PROTECTION
Be it known that

EARTHLIGHT TECHNOLOGIES LLC
92 WEST RD
ELLINGTON, CT 06029-3722

has satisfied the qualifications required by law and is hereby registered as a

HOME IMPROVEMENT CONTRACTOR

Registration # HIC.0636767

Effective: 04/01/2022

Expiration: 03/31/2023



Michelle Seagull, Commissioner



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/5/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| | |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| PRODUCER T M Burgess Co 828 Sullivan Avenue PO Box 903 South Windsor CT 06074 | CONTACT NAME: Nicole Zern |
| | PHONE (A/C, No, Ext): (860) 644-2534 FAX (A/C, No): (860) 644-8500 E-MAIL ADDRESS: nicole@tmburgessins.com |
| INSURER(S) AFFORDING COVERAGE | |
| INSURER A: Tokio Marine Specialty Insurance Compar | NAIC # |
| INSURER B: Utica National Insurance Group | 10687 |
| INSURER C: Carolina Casualty Insurance Co | |
| INSURER D: Lloyds of London | |
| INSURER E: | |
| INSURER F: | |

COVERAGES CERTIFICATE NUMBER: Cert 22-23 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | ADDL INSD | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------------|-------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER: | | | EG000351-01 | 7/1/2022 | 7/1/2023 | EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 20,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 |
| B | AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS | | | 5355272 | 7/1/2022 | 7/1/2023 | COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ |
| A | <input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000 | | | XP00234-01 | 7/1/2022 | 7/1/2023 | EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 |
| C | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below | Y/N | N/A | BNUWC0157226 | 7/1/2022 | 7/1/2023 | <input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000 |
| A | Professional/Pollution | | | EG000351-01 | 7/1/2022 | 7/1/2023 | Per Occurance 6,000,000 |
| D | Cyber Liability | | | ESK0033069780 | 8/23/2021 | 8/23/2022 | Per Occurance \$1,000,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

| | |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CERTIFICATE HOLDER Records Only | CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. |
| | AUTHORIZED REPRESENTATIVE Scott Prestileo/CSR1 |

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