

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

FIRST REVISED SHEET NO. 19.0  
CANCELS ORIGINAL SHEET NO. 19.0

**APPLICATION FOR INTERCONNECTION OF  
CUSTOMER-OWNED RENEWABLE  
GENERATION SYSTEMS**

230477

TIER 1 - Ten (10) kW or Less

TIER 2 - Greater than 10 kW and Less Than or Equal to 100 kW

TIER 3 - Greater than 100 kW and Less Than or Equal to Two (2) MW

Note: These customer-owned renewable generation system size limits may be subject to a cumulative enrollment limit on net-metering customers located in the area served by the City of Ocala Electric Utility. Please refer to the Ocala Electric Utility Net-Metering Rate Schedule.

Ocala Electric Utility customers who install customer-owned renewable generation systems (RGS) and desire to interconnect those facilities with the Ocala Electric Utility system are required to complete this application. When the completed application and fees are returned to Ocala Electric Utility, the process of completing the appropriate Tier 1, Tier 2 or Tier 3 Interconnection Agreement can begin. This application and copies of the Interconnection Agreements may be obtained at Ocala Electric Utility, located at 201 SE 3rd Street, Ocala, Florida 34471, or may be requested by email from [OEU@ocalafl.org](mailto:OEU@ocalafl.org).

**1. Customer Information**

Name: Stiven Plasencio

Mailing Address: 336 NE 43rd Ct, Ocala, FL 34470

City: Ocala State: FL Zip Code: 34470

Phone Number: 914-354-4367 Alternate Phone Number: \_\_\_\_\_

Email Address: Laporvora26@gmail.com Fax Number: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 545418-235264

**2. RGS Facility Information**

Facility Location: 336 NE 43rd Ct, Ocala, FL 34470

Ocala Electric Utility Customer Account Number: 545418-235264

RGS Manufacturer: LONGI SOLAR

Manufacturer's Address: \_\_\_\_\_

Reference or Model Number: LR4-60HPB-350M

Serial Number: \_\_\_\_\_

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Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

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### 3. Facility Rating Information

Gross Power Rating: 12,300 ("Gross power rating" means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with Ocala Electric Utility's distribution facilities. For inverter-based systems, the AC nameplate generating capacity shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.)

Fuel or Energy Source: \_\_\_\_\_

Anticipated In- Service Date: 04/10/2023

### 4. Application Fee

The application fee is based on the Gross Power Rating and must be submitted with this application. The non-refundable application fee is \$375 for Tier 2 and \$750 for Tier 3 installations. There is no application fee for Tier 1 installations.

### 5. Interconnection Study Fee

For Tier 3 installations, a deposit in the amount of the estimated costs of the study (to be determined at time of application) must be paid along with this application in addition to the application fee referenced in Article 4 above. This deposit will be applied toward the cost of an interconnection study. The customer will be responsible for the actual costs of the study. Should the actual cost of the study be less than the deposit, the difference will be refunded to the customer. Customer agrees to comply with all interconnection requirements identified in the interconnection study report.

### 6. Required Documentation

Prior to completion of the Interconnection Agreement, the following information must be provided to the Ocala Electric Utility by the customer.

- A. Documentation demonstrating that the installation complies with (or most current version at time of inspection approval):
1. IEEE 1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power Systems.
  2. IEEE 1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems.
  3. UL 1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.

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Electric Utility Director

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B. Documentation that the customer-owned renewable generation has been inspected and approved by local code officials prior to its operation in parallel with the Ocala Electric Utility system to ensure compliance with applicable local codes. OEU will also require proof of commission testing by a qualified 3<sup>rd</sup> party testing company (not affiliated in any way with the manufacturer, vendor or installation contractor), for compliance with all required and applicable codes, standards, and interconnection study requirements, prior to setting of OEU metering equipment.

C. Proof of insurance in the amount of:

Tier 1 - \$100,000.00


Tier 2 - \$1,000,000.00

Tier 3 - \$2,000,000.00

**Customer**

By: Stiven Plasencio  
(Print Name)

Date: 04/10/2023

  
(Signature)

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Electric Utility Director

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**Tier 2  
Standard Interconnection Agreement  
Customer-Owned Renewable Generation System**

This **Agreement** is made and entered into this 10 day of April, 2023, by and between Stiven Plasencio, (hereinafter called "**Customer**"), located at 336 NE 43rd Ct in Ocala, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereafter called "**OEU**"), a body politic. Customer and OEU shall collectively be called the "**Parties**". The physical location/premise where the interconnection is taking place: 336 NE 43rd Ct, Ocala, FL 34470.

**WITNESSETH**

**Whereas**, a Tier 2 Renewable Generation System (RGS) is an electric generating system that uses one or of more of the following fuels or energy sources: hydrogen, biomass, solar energy, geothermal energy, wind energy, ocean energy, waste heat, or hydroelectric power as defined in Section 377.803, Florida Statutes, rated at more than 10 kilowatts (10 kW) but not greater than 100 kilowatts (100 kW) alternating current (AC) power output and is primarily intended to offset part or all of the customer's current electric requirements; and

**Whereas**, OEU operates an electric system serving parts of the City of Ocala and Marion County; and

**Whereas**, Customer has made a written Application to OEU, a copy being attached hereto, to interconnect its RGS with OEU's electrical supply grid at the location identified above; and

**Whereas**, the City of Ocala and the Florida Municipal Power Agency (hereinafter called "FMPA") have entered into the All-Requirements Power Supply Contract pursuant to which OEU has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate OEU's electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation; and

**Whereas**, in order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU customers interconnected to OEU's electric system; and

**Whereas**, OEU desires to provide interconnection of a RGS under conditions which will insure the safety of OEU customers and employees, reliability and integrity of its distribution system;

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Electric Utility Director

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**NOW, THEREFORE**, for and in consideration of the mutual covenants and agreements herein set forth, the parties hereto covenant and agree as follows:

1. The Customer shall be required to enter into a Tri-Party Net-Metering Purchase Power Agreement with FMPA and OEU.
2. "Gross power rating" (GPR) means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with OEU distribution facilities. For inverter-based systems, the GPR shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.
3. This agreement is strictly limited to cover a Tier 2 RGS as defined above. It is the Customer's responsibility to notify OEU of any change to the GPR of the RGS by submitting a new application for interconnection specifying the modifications at least 30 days prior to making the modifications. In no case should modifications to the RGS be made such that the GPR increases above the 100 kilowatts (100 kW) limit.
4. The RGS GPR must not exceed 90 percent (90%) of the Customer's OEU calculated distribution service rating at the Customer's location (including shared electric facilities). If the GPR does exceed the 90 percent (90%) limit, the Customer shall be responsible to pay the cost of upgrades to the distribution facilities required to accommodate the GPR capacity and ensure the 90 percent (90%) threshold is not breached. OEU will not allow a RGS GPR greater than required to offset the customer's annual kWh energy consumption (based on customer's historical consumption data or by means of estimated usage of similar type of service as determined by OEU).
5. The Customer shall be required to pay a non-refundable application fee of \$375 for the review and processing of the application.
6. The Customer shall fully comply with OEU's Rules and Regulations and Electric Service Specifications as those documents may be amended or revised by OEU from time to time.
7. The Customer certifies that its installation, its operation and its maintenance shall be in compliance with the following standards (or most current version at time of inspection approval):
  - a. IEEE-1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power System;
  - b. IEEE-1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnection Distributed Resources with Electric Power Systems;
  - c. UL-1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed *Energy Resources*.

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Electric Utility Director

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- d. The National Electric Code, state and/or local building codes, mechanical codes and/or electrical codes;
  - e. The manufacturer's installation, operation and maintenance instructions.
8. The Customer is not precluded from contracting for the lease, operation or maintenance of the RGS with a third party. Such lease may not provide terms or conditions that provide for any payments under the agreement to any way indicate or reflect the purchase of energy produced by the RGS. Customer shall not enter into any lease agreement that results in the retail purchase of electricity; or the retail sale of electricity from the customer-owned renewable generation. Notwithstanding this restriction, in the event that Customer is determined to have engaged in the retail purchase of electricity from a party other than OEU, then Customer shall be in breach of this Agreement and may be subject to the jurisdiction of the Florida Public Service Commission and to fines/penalties.
9. The Customer shall provide a copy of the manufacturer's installation, operation and maintenance instructions to OEU. If the RGS is leased to the Customer by a third party, or if the operation or maintenance of the RGS is to be performed by a third party, the lease and/or maintenance agreements and any pertinent documents related to these agreements shall be provided to OEU.
10. Prior to commencing parallel operation with OEU's electric system, Customer shall have the RGS inspected and approved by the appropriate code authorities having jurisdiction. Customer shall provide a copy of this inspection and approval to OEU.
11. The Customer agrees to permit OEU, if it should so choose, to inspect the RGS and its component equipment and the documents necessary to ensure compliance with this Agreement both before and after the RGS goes into service and to witness the initial testing of the RGS equipment and protective apparatus. OEU will provide Customer with as much notice as reasonably possible, either in writing, email, facsimile or by phone as to when OEU may conduct inspections and or document review. Upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, Customer agrees to provide OEU access to the Customer's premises for any purpose in connection with the performance of the obligations required by this Agreement or, if necessary, to meet OEU's legal obligation to provide service to its customers. At least ten (10) business days prior to initially placing the customer-owned renewable generation system in service, Customer shall provide written notification to OEU advising OEU of the date and time at which Customer intends to place the system in service, and OEU shall have the right to have personnel present on the in-service date in order to ensure compliance with the requirements of this Agreement.

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Electric Utility Director

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12. The Customer's RGS must have an appropriately sized grid-tie inverter system that includes applicable protective systems. Customer certifies that the RGS equipment includes a utility-interactive inverter or interconnection system equipment that ceases to interconnect with the OEU system upon a loss of OEU power. The inverter shall be considered certified for interconnected operation if it has been submitted by a manufacturer to a nationally recognized testing laboratory (NRTL) to comply with UL 1741. The NRTL shall be approved by the Occupational Safety & Health Administration (OSHA).

13. If Customer adds another RGS which (i) utilizes the same utility-interactive inverter for both systems; or (ii) utilizes a separate utility-interactive inverter for each system, then Customer shall provide OEU with sixty (60) days advance written notice of the addition.

14. The Customer shall not energize the OEU system when OEU's system is deenergized. The Customer shall cease to energize the OEU system during a faulted condition on the OEU system and/or upon any notice from OEU that the deenergizing of Customer's RGS equipment is necessary. The Customer shall cease to energize the OEU system prior to automatic or non-automatic reclosing of OEU's protective devices. There shall be no intentional islanding, as described in IEEE 1547, between the Customer's and OEU's systems.

15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OEU's electric system in delivering and restoring system power. Customer agrees that any damage to any of its property, including, without limitation, all components and related accessories of its RGS system, due to the normal or abnormal operation of OEU's electric system, is at Customer's sole risk and expense. Customer is also responsible for ensuring that the customer-owned renewable generation equipment is inspected, maintained, and tested regularly in accordance with the manufacturer's instructions to ensure that it is operating correctly and safely.

16. The Customer must install, at their expense, a manual disconnect switch of the visible load break type to provide a separation point between the AC power output of the customer-owned renewable generation system and any Customer wiring connected to OEU's electric system such that back feed from the customer-owned renewable generation system to OEU's electric system cannot occur when the switch is in the open position. The manual disconnect switch shall be mounted separate from the meter socket on an exterior surface adjacent to the meter. The switch shall be readily accessible to OEU and capable of being locked in the open position with an OEU padlock. When locked and tagged in the open position by OEU, this switch will be under the control of OEU.

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17. Subject to an approved inspection, including installation of acceptable disconnect switch, this Agreement shall be executed by OEU within thirty (30) calendar days of receipt of a completed application. Customer must execute this Agreement and return it to OEU at least thirty (30) calendar days prior to beginning parallel operations with OEU's electric system, subject to the requirements of Sections 18 and 19, below, and within one (1) year after OEU executes this Agreement.

18. Once OEU has received Customer's written documentation that the requirements of this Agreement have been met, all agreements and documentation have been received and the correct operation of the manual switch has been demonstrated to an OEU representative, OEU will, within fifteen (15) business days, send written notice that parallel operation of the RGS may commence.

19. OEU requires the Customer to maintain general liability insurance for personal injury and property damage in the amount of not less than one million dollars (\$1,000,000.00).

20. OEU will furnish, install, own and maintain metering equipment capable of measuring the flow of kilowatt-hours (kWh) of energy. The Customer's service associated with the RGS will be metered to measure the energy delivered by OEU to Customer, and also measure the energy delivered by Customer to OEU. Customer agrees to provide safe and reasonable access to the premises for installation, maintenance and reading of the metering and related equipment. The Customer shall not be responsible for the cost of the installation and maintenance of the metering equipment necessary to measure the energy delivered by the Customer to OEU.

21. The Customer shall be solely responsible for all legal and financial obligations arising from the design, construction, installation, operation, maintenance and ownership of the RGS.

22. The Customer must obtain all permits, inspections and approvals required by applicable jurisdictions with respect to the generating system and must use a licensed, bonded and insured contractor to design and install the generating system. The Customer agrees to provide OEU with a copy of the local building code official inspection and certification of installation. The certification shall reflect that the local code official has inspected and certified that the installation was permitted, has been approved, and has met all electrical and mechanical qualifications.

23. In no event shall any statement, representation, or lack thereof, either express or implied, by OEU, relieve the Customer of exclusive responsibility for the Customer's system. Specifically, any OUS inspection of the RGS shall not be construed as confirming or endorsing the system design or its operating or maintenance procedures or as a warranty or guarantee as to the safety, reliability, or durability of the RGS. OEU's inspection, acceptance, or its failure to inspect shall not be deemed an endorsement of any RGS equipment or procedure. Further, as set forth in Sections 15 and 26 of this Agreement, Customer shall remain solely responsible for any and all losses, claims, damages and/or expenses related in any way to the operation or misoperation of its RGS equipment.

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24. Notwithstanding any other provision of this Interconnection Agreement, OEU, at its sole and absolute discretion, may isolate the Customer's system from the distribution grid by whatever means necessary, without prior notice to the Customer. To the extent practical, however, prior notice shall be given. The system will be reconnected as soon as practical once the conditions causing the disconnection cease to exist. OEU shall have no obligation to compensate the Customer for any loss of energy during any and all periods when Customer's RGS is operating at reduced capacity or is disconnected from OEU's electrical distribution system pursuant to this Interconnection Agreement. Typical conditions which may require the disconnection of the Customer's system include, but are not limited to, the following:

- a. OEU utility system emergencies, forced outages, uncontrollable forces or compliance with prudent electric utility practice.
- b. When necessary to investigate, inspect, construct, install, maintain, repair, replace or remove any OEU equipment, any part of OEU's electrical distribution system or Customer's generating system.
- c. Hazardous conditions existing on OEU's utility system due to the operation of the Customer's generation or protective equipment as determined by OEU.
- d. Adverse electrical effects (such as power quality problems) on the electrical equipment of OEU's other electric consumers caused by the Customer's generation as determined by OEU.
- e. When Customer is in breach of any of its obligations under this Interconnection Agreement or any other applicable policies and procedures of OEU.
- f. When the Customer fails to make any payments due to OEU by the due date thereof.

25. Upon termination of services pursuant to this Agreement, OEU shall open and padlock the manual disconnect switch and remove any additional metering equipment related to this Agreement. At the Customer's expense, within thirty (30) working days following the termination, the Customer shall permanently isolate the RGS and any associated equipment from OEU's electric supply system, notify OEU that the isolation is complete, and coordinate with OEU for return of OEU's lock.

26. To the fullest extent permitted by law, and in return for adequate, separate consideration, Customer shall indemnify, defend and hold harmless OEU, any and all of their members of its governing bodies, and its officers, agents, and employees for, from and against any and all claims, demands, suits, costs of defense, attorneys' fees, witness fees of any type, losses, damages, expenses, and liabilities, whether direct, indirect or consequential, related to, arising from, or in any way connected with:

- a. Customer's design, construction, installation, inspection, maintenance, testing or operation of Customer's generating system or equipment used in connection with this Interconnection Agreement, irrespective of any fault on the part of OEU.

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Electric Utility Director

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- b. The interconnection of Customer's generating system with, and delivery of energy from the generating system to, OEU's electrical distribution system, irrespective of any fault on the part of OEU.
- c. The performance or nonperformance of Customer's obligations under this Interconnection Agreement or the obligations of any and all of the members of Customer's governing bodies and its officers, contractors (and any subcontractor or material supplier thereof), agents and employees.

Customer's obligations under this Section shall survive the termination of this Interconnection Agreement.

27. Customer shall not have the right to assign its benefits or obligations under this Agreement without OEU's prior written consent and such consent shall not be unreasonably withheld. If there is a change in ownership of the RGS, Customer shall provide written notice to OEU at least thirty (30) days prior to the change in ownership. The new owner will be required to assume, in writing, the Customer's rights and duties under this Agreement, or execute a new Standard Interconnection Agreement. The new owner shall not be permitted to net meter or begin parallel operations until the new owner assumes this Agreement or executes a new Agreement.

28. This Agreement supersedes all previous agreements and representations either written or verbal heretofore made between OEU and Customer with respect to matters herein contained. This Agreement, when duly executed, constitutes the only Agreement between parties hereto relative to the matters herein described. This Agreement shall continue in effect from year to year until either party gives sixty (60) days notice of its intent to terminate this Agreement.

29. This Agreement shall be governed by and construed and enforced in accordance with the laws, rules and regulations of the State of Florida and OEU's tariff as it may be modified, changed, or amended from time to time, including any amendments modification or changes to OEU's Net-Metering Service Rate Schedule, the schedule applicable to this Agreement. The Customer and OEU agree that any action, suit, or proceeding arising out of or relating to this Interconnection Agreement shall be initiated and prosecuted in the state court of competent jurisdiction located in Marion County, Florida, and OEU and the Customer irrevocably submit to the jurisdiction and venue of such court. To the fullest extent permitted by law, each Party hereby irrevocably waives any and all rights to a trial by jury and covenants and agrees that it will not request a trial by jury with respect to any legal proceeding arising out of or relating to this Interconnection Agreement.

None of the provisions of this Interconnection Agreement shall be considered waived by either Party except when such waiver is given in writing. No waiver by either Party of any one or more defaults in the performance of the provisions of this Interconnection Agreement shall operate or be construed as a waiver of any other existing or future default or defaults. If any one or more of the provisions of this Interconnection Agreement or the applicability of any provision to a

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specific situation is held invalid or unenforceable, the provision shall be modified to the minimum extent necessary to make it or its application valid and enforceable, and the validity and enforceability of all other provisions of this Interconnection and all other applications of such provisions shall not be affected by any such invalidity or unenforceability. This Interconnection Agreement does not govern the terms and conditions for the delivery of power and energy to non-generating retail customers of OEU's electrical distribution system.

30. This Agreement incorporates by reference the terms of the tariff filed with the Florida Public Service Commission by OEU, including OEU's Net-Metering Service Rate Schedule, and associated technical terms and abbreviations, general rules and regulations and standard electric service requirements (as may be applicable) are incorporated by reference, as amended from time to time. To the extent of any conflict between this Agreement and such tariff, the tariff shall control.

31. OEU and Customer recognize that the Florida Statutes and/or the Florida Public Service Commission Rules, including those directly addressing the subject of this Agreement, may be amended from time to time. In the event that such statutes and/or rules are amended that affect the terms and conditions of this Agreement, OEU and Customer agree to supersede and replace this Agreement with a new Interconnection Agreement which complies with the amended statutes/rules.

32. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the OEU's Net-Metering Service Rate Schedule (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds 2.5 percent (%) of the aggregate customer peak demand on OEU's electric system.

33. This Agreement is solely for the benefit of OEU and Customer and no right nor any cause of action shall accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than OEU or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon OEU and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by OEU of the sovereign immunity applicable to OEU as established by Florida Statutes, 768.28.

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Electric Utility Director

Effective: October 1, 2019

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IN WITNESS WHEREOF, Customer and OEU have executed this Agreement the day and year first above written.

OUS:

Customer:

By: Janice Mitchell  
DocuSigned by:  
55198B43858A4E1...

By: Stiven Plasencio

Title: CFO

(Print Name)

Stiven Plasencio  
(Signature)

Date: 5/15/2023

Date: 04/10/2023

City of Ocala Electric Utility Account Number:

545418-235264

Approved as to form and legality:

William E. Sexton  
DocuSigned by:  
1971CFC0E80E420...  
William E. Sexton  
City Attorney

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

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OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

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### **Tri-Party Net-Metering Power Purchase Agreement**

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 10 day of April, 2023, by and between the Florida Municipal Power Agency, a governmental joint action agency created and existing under the laws of the State of Florida (hereinafter "FMPA"), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter "OEU"), and Stiven Plasencio, a retail electric customer of OEU (hereinafter "Customer").

#### **Section 1. Recitals**

1.01. OEU and Customer have executed OEU's Standard Interconnection Agreement for a Customer-Owned Renewable Generation System (RGS) pursuant to which OEU has agreed to permit interconnection of Customer's renewable generation to OEU's electric system at Customer's presently-metered location, and Customer has agreed to deliver excess electric energy generated by Customer's Renewable Generation System to OEU's electric distribution system;

1.02. The City of Ocala and FMPA have entered into the All-Requirements Power Supply Contract, dated as of May 1, 1986, (hereinafter the "ARP Contract") pursuant to which the City of Ocala has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate the OEU electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation.

1.03. In order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU's electric customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU's electric customers interconnected to OEU's electric system.

NOW THEREFORE, for and in consideration of the mutual covenants and agreements set forth herein, the Parties covenant and agree as follows:

#### **Section 2. Interconnection**

2.01. Customer shall not begin parallel operations with the OEU electric distribution system until Customer has executed OEU's electric Standard Interconnection Agreement for Small Customer-Owned Renewable Generation and is in compliance with all terms and conditions

OEU requires that the customer install and operate the RGS in accordance with all applicable safety codes and standards. OEU shall establish and enforce terms and conditions of operation and disconnection of all interconnected customer-owned renewable generation as it relates to the effect of the RGS on OEU's electric distribution system.

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CANCELS ORIGINAL SHEET NO. 20.1

### **Section 3. Metering**

3.01 In accordance with the OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation, OEU shall install metering equipment at the point of delivery capable of recording two separate kWh meter readings: (1) the flow of electricity from OEU to the Customer (Delivered), and (2) the flow of excess electricity from the Customer to OEU. OEU shall take meter readings on the same cycle as the otherwise applicable rate schedule.

### **Section 4. Purchase of Excess Customer-Owned Renewable Generation**

4.01. Customer-owned renewable generation shall be first used for Customer's own load and shall offset Customer's demand for OEU's electricity. All electric power and energy delivered by OEU to Customer shall be received and paid for by Customer to OEU (Received) pursuant to the terms, conditions and rates of the OEU otherwise applicable rate schedule.

4.02. Excess customer-owned renewable generation shall be delivered to the OEU Electric distribution system. For purposes of this Agreement, the term "excess customer-owned renewable generation" means any kWh of electrical energy produced by the customer-owned renewable generation system that is not consumed by Customer and is delivered to the OEU electric distribution system. FMPA agrees to purchase and receive, and Customer agrees to sell and deliver, all excess customer-owned renewable generation at the energy rate established by FMPA, which shall be calculated in accordance with Schedule A. Excess customer-owned renewable generation shall be purchased in the form of a credit on Customer's monthly energy consumption bill from OEU.

4.03. In the event that a given monthly credit for excess customer-owned renewable generation exceeds the total billed amount for Customer's consumption in any corresponding month, then the excess credit shall be applied to the subsequent month's bill. Excess energy credits produced pursuant to the preceding sentence shall accumulate and be used to offset Customer's energy consumption bill for a period of not more than twelve (12) months. At the end of each calendar year, any unused excess energy credits shall be paid by OEU to the Customer in accordance with the OEU Electric Net-Metering Service Rate Schedule.

(Continued on Sheet No. 20.2)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019



OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.1)

FIRST REVISED SHEET NO. 20.2  
CANCELS ORIGINAL SHEET NO. 20.2

4.04. FMPA and OEU shall not be required to purchase or receive excess customer-owned renewable generation, and may require Customer to interrupt or reduce production of customer-owned renewable generation, (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any OEU equipment or part of OEU's system; or (b) if either FMPA or OEU determine, in their sole judgment, that curtailment, interruption, or reduction is necessary because of emergencies, forced outages, force majeure, or compliance with any applicable electric code or standard.

4.05. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered, first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the Net-Metering Service Rate Schedule (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds two and one-half percent (2.5%) of the aggregate customer peak demand on the OEU electric system.

#### **Section 5. Renewable Energy Credits**

5.01. Customer shall offer FMPA a first right of refusal before selling or granting to any third party the right to the Green Attributes associated with its customer-owned renewable generation that is interconnected to OEU electric distribution system. The term "Green Attributes" shall include any and all credits, certificates, benefits, environmental attributes, emissions reductions, offsets, and allowances, however entitled, attributable to the generation of electricity from the customer-owned-renewable generation and its displacement of conventional energy generation.

5.02. Any additional meter(s) installed to measure total renewable electricity generated by the Customer for the purposes of measuring Green Attributes, including and renewable energy certificates (or similarly titled credits for renewable energy generated), shall be installed at the expense of the Customer, unless determined otherwise during negotiations for the sale of the Customer's credits to FMPA.

#### **Section 6. Term and Termination**

6.01. This Agreement shall become effective upon execution by all Parties, and shall remain in effect thereafter on a month-to-month basis until terminated by any Party upon thirty (30) days written notice to all other Parties.

6.02. This Agreement shall terminate immediately and without notice upon: (a) termination of the electric distribution service by OEU or (b) failure by Customer to comply with any of the terms and conditions of this Agreement or OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation.

(Continued on Sheet No. 20.3)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019





OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.2)

FIRST REVISED SHEET NO. 20.3  
CANCELS ORIGINAL SHEET NO. 20.3

## **Section 7. Miscellaneous Provisions**

7.01. Assignment. It is understood and agreed that no party may transfer, sell, mortgage, pledge, hypothecate, convey, designate, or otherwise assign this Agreement, or any interest herein or any rights or obligations hereunder, in whole or in part, either voluntarily or by operation of law, (including, without limitation, by merger, consolidation, or otherwise), without the express written consent of the other parties (and any such attempt shall be void), which consent shall not be unreasonably withheld. Subject to the foregoing, this Agreement shall inure to the benefit of and be binding upon the parties and their respective successors and permitted assigns.

7.02. Amendment. It is understood and agreed that FMPA and OEU reserve the right, on no less than an annual basis, to change any of the terms and conditions, including pricing, in this Agreement on sixty (60) days advance written notice. FMPA and OEU may make such changes on an immediate basis in the event any applicable law, rule, regulation or court order requires them. In such event, FMPA and OEU will give Customer as much notice as reasonably possible under the circumstances.

7.03. Indemnification. To the fullest extent permitted by laws and regulations, and in return for adequate, separate consideration, Customer shall defend, indemnify, and hold harmless FMPA and OEU, their officers, directors, agents, guests, invitees, and employees from and against all claims, damages, losses to persons or property, whether direct, indirect, or consequential (including but not limited to fees and charges of attorneys, and other professionals and court and arbitration costs) arising out of, resulting from, occasioned by, or otherwise caused by the operation or misoperation of the customer-owned renewable generation, or the acts or omissions of any other person or organization directly or indirectly employed by the Customer to install, furnish, repair, replace or maintain the customer-owned renewable generation system, or anyone for whose acts any of them may be liable.

7.04. Governing Law. The validity and interpretation of this Agreement and the rights and obligations of the parties shall be governed and construed in accordance with the laws of the State of Florida without regard for any conflicts of law provisions that might cause the law of other jurisdictions to apply. All controversies, claims, or disputes arising out of or related to this Agreement or any agreement, instrument, or document contemplated hereby, shall be brought exclusively in the County or Circuit Court for Marion County, Florida, or the United States District Court sitting in Marion County, Florida, as appropriate.

(Continued on Sheet No. 20.4)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019



OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.3)

FIRST REVISED SHEET NO. 20.4  
CANCELS ORIGINAL SHEET NO. 20.4

7.05. Enforcement of Agreement. In the event that either party is required to enforce this Agreement by court proceedings or otherwise, the prevailing party shall be entitled to recover all fees and costs incurred, including reasonable attorney's fees and costs for trial, alternative dispute resolution, and/or appellate proceedings.

7.06. Severability. To the extent any provision of this Agreement is prohibited by or invalid under applicable law, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.

7.07. Third Party Beneficiaries and Sovereign Immunity. This Agreement is solely for the benefit of FMPA, OEU, and Customer and no right nor shall any cause of action accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than FMPA, OEU, or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon FMPA, OEU, and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by either FMPA or OEU of the sovereign immunity applicable to either or both of them as established by Florida Statutes, 768.28.

(Continued on Sheet No. 20.5)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019



OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.4)

FIRST REVISED SHEET NO. 20.5  
CANCELS ORIGINAL SHEET NO. 20.5

IN WITNESS WHEREOF, Customer and OEU have executed this Agreement the day and year first above written.

**City of Ocala Electric Utility**

By: DocuSigned by:  
Janice Mitchell  
8070CFC04E80E429  
Title: CFO  
Date: 5/15/2023

**Florida Municipal Power Agency**

By: DocuSigned by:  
[Signature]  
8070CFC04E80E429  
Title: VP of IT/OT and System Ops  
Date: 5/15/2023

**Customer**

By: Stiven Plasencio Date: 04/10/2023  
(Print Name)  
[Signature]  
(Signature)

Customer's City of Ocala Electric Utility Account Number: 545418-235264

Approved as to form and legality:

DocuSigned by:  
William E. Sexton  
8070CFC04E80E429  
William E. Sexton  
City Attorney

(Continued on Sheet No. 20.6)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

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Ocala Electric Utility  
Ocala, Florida  
(Continued from Sheet No. 20.5)

FIRST REVISED SHEET NO. 20.6  
CANCELS ORIGINAL SHEET NO. 20.6

**Tri-Party Net-Metering Power Purchase Agreement  
Schedule A**

**I. All-Requirements Project Calculation of Excess Customer-Owned Renewable Generation Credit**

- a) FMPPA shall pay OEU for the excess kWh energy delivered by customer-owned renewable generation to OEU's electric system. Every month, OEU shall determine the total kWh of customer-owned renewable generation that is delivered to OEU's electric system, and shall send the information to FMPPA as soon as it becomes available, but no later than the second working day of every month. FMPPA will then provide a monthly payment to OEU in the form of a credit on the ARP power bill for the excess energy delivered to the distribution grid. The ARP Renewable Generation Credit will be calculated as follows:

**ARP Renewable Generation Credit = Quarterly Energy Rate \* Monthly kWh of excess customer-owned renewable generation**

**Quarterly Energy Rate = 3 month average of ARP energy rate. FMPPA will update the Quarterly Energy Rate every April 1, July 1, October 1 and January 1.**

- b) As part of the monthly bill adjustment, FMPPA will also increase OEU's kWh billing amount by the same kWh amount as the customer-owned renewable generation purchased by FMPPA. This adjustment is necessary because excess customer generation that flows onto OEU's electric system has been purchased by FMPPA, but will remain on OEU's electric system and be used by OEU to meet its other customers' electric needs. As a result, OEU's monthly ARP bill will be adjusted accordingly to reflect FMPPA's subsequent sale of this energy to OEU.

**II. Payment for Unused Excess Energy Credits**

- a) Monthly excess energy credits shall accumulate and be used to offset the Customer's following month energy consumption bill for a period of not more than twelve (12) months.
- b) At the end of each calendar year, OEU shall pay the Customer for any unused excess energy credits in accordance with the OEU Electric Net-Metering Service Rate Schedule.

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

*JP*



# RIGHT ANGLE ENGINEERING

## STRUCTURAL CERTIFICATION REPORT

Roof-mounted Solar Panels

February 08, 2023

**To: Sunlight Solar Florida**  
7575 Kingspointe PKWY Suite 4  
Orlando, FL 32819

**Re: Stiven Palsencio**  
336 NE 43rd Ct  
Ocala, FL 34470

Sunlight Solar Florida proposes to install new roof-mounted solar panels at this residence and asked Right Angle Engineering to review the existing structure for suitability. This letter summarizes the methods that were used to survey, evaluate, and certify the existing roof framing and the attachment of the new solar panels to it.

### STRUCTURAL DESIGN

Building Code: Florida Residential Code 2020  
Design Standards: ASCE 7-16  
Snow: Ground:  $p_g = 0.0$  psf | Flat Roof:  $p_f = 0.0$  psf | Sloped Roof:  $p_s = 0.0$  psf  
Wind: Ultimate Wind Speed = 140.0 mph | Exposure = B  
Seismic: Risk Category = 2 | Seismic Design Category = A | Site Class = D

### STRUCTURE

Field Technicians from Sunlight Solar Florida visited the site and observed the existing structure :

Array Name	Panel Quantity	Roof Framing	Material	Pitch
Array 1	37	2x4 Fink Truss   24" o.c.	Asphalt Shingles	19°
Array 2	14	2x4 Fink Truss   24" o.c.	Asphalt Shingles	15°

### ANCHORAGE

The solar panel anchorage shall be installed according to the manufacturer's most current installation manual. Anchorage shall be staggered to distribute the load evenly to adjacent roof members. The solar panels should be mounted flush to the roof surface.

Array Name	Connection Type	Fastener	Max Anchorage Spacing
Array 1	NanoMount ((1)-5/16" lag into substructure)	5/16" lag screw (2.5" embedment) into roof substructure	27"
Array 2	NanoMount ((1)-5/16" lag into substructure)	5/16" lag screw (2.5" embedment) into roof substructure	22"

### Installation Instructions

Solar panels and the equipment shall be installed per the manufacturer's installation specifications. Improper installation will void this certification. Deviations from the approved structural plans (including equipment substitutions) are not allowed without written approval from Right Angle Engineering. Prior to installation, the installer should:

- Confirm that the existing structure matches the information provided in the structural survey, the approved installation plans and this certification.
- Identify discrepancies between this certification and the approved installation plans. If found, then this certification shall govern.
- Identify structural elements that are dangerous (cracked, broken, excessive sag, signs of overstress, rot, decay, fire, water). If found, installation shall cease until those elements are adequately abated and made to comply with the referenced building code.
- Provide fire setbacks and access pathways as required by local ordinances

STRUCTURAL CERTIFICATION

I certify the addition of solar panels on the roof of this structure does not cause the structure to become unsafe or make it generally less compliant with the life-safety requirements of the referenced building code. Based on the evaluation methods described below, for the loads that exist at this site, the existing framing should safely support the new solar panels if they are installed and attached correctly.

Array Name	Certification Method	Retrofits
Array 1	Stress analysis Florida Residential code	None required
Array 2	Stress analysis Florida Residential code	None required

Regards,



This item has been electronically signed and sealed by Robert Smythe on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy  
FAC 61G15-23.004

Digitally signed by Robert Smythe  
DN:  
E=robert@rightangleeng.com,  
CN=Robert Smythe,  
OU=Senior Engineering,  
O=Right Angle Engineering,  
L=Orem, S=Utah, C=US  
Date: 2023.02.08 12:50:29-07'00'

Robert Smythe

02/08/2023

Robert D. Smythe, P.E.  
Right Angle Engineering

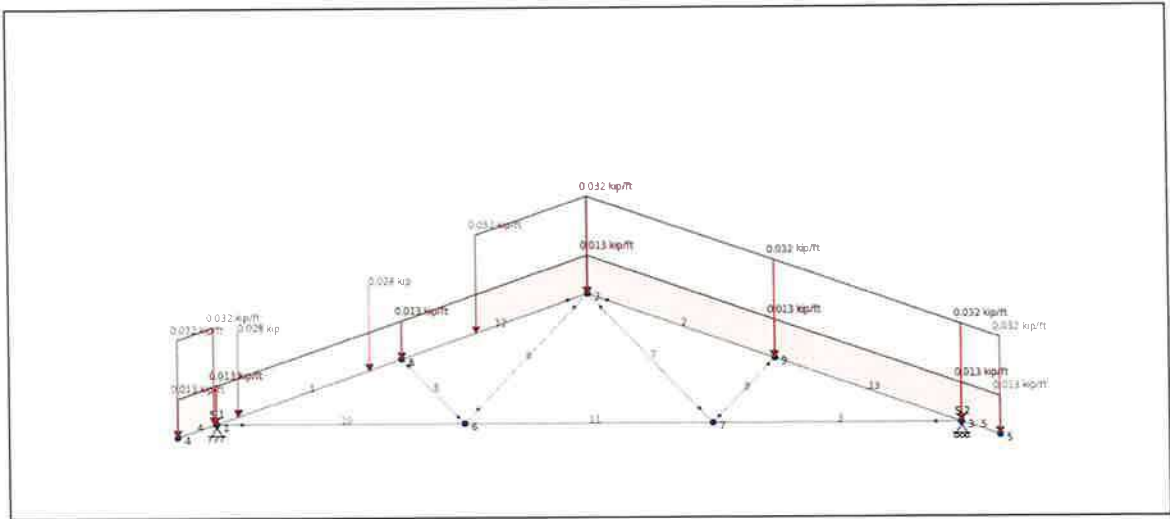
## Job Details

Roof Snow Load - ASCE 7-16		Design Criteria	
<b>Ground Snow Load (<math>p_g</math>)</b> <i>Section 7.2</i>	0.0 psf	<b>Design Wind Speed</b>	140.0mph
<b>Exposure Factor (<math>C_e</math>)</b> <i>Table 7.3-1</i>	0.9	<b>Exposure Category</b>	B
<b>Thermal Factor (<math>C_t</math>)</b> <i>Table 7.3-2</i>	1.1	<b>Risk Category</b>	2
<b>Importance Factor (<math>I_s</math>)</b> <i>Table 1.5-2</i>	1	<b>Mean Roof Height</b>	30 ft
<b>Flat Roof Snow Load (<math>p_f</math>)</b> <i>Equation 7.3-1</i>	0.0 psf	<b>Roof Type</b>	Gable Roof
<b>Slippery Surface Slope Factor (<math>C_s</math>)</b> <i>Figure 7.4-1</i>	0.92	<b>Building Type</b>	Enclosed
<b>Non-Slippery Surface Slope Factor (<math>C_s</math>)</b> <i>Figure 7.4-1</i>	1		
<b>Roof Snow Load</b> <i>Equation 7.4-1</i>	0.0 psf	Roof Live Load	
<b>Reduced Snow Load (Slippery Surface)</b> <i>Equation 7.4-1</i>	0.0 psf	<b>Existing Roof Live Load</b> <i>ASCE 7-16 Table 4.3-1</i>	20 psf
		<b>Roof Live Load with Solar Panels</b>	0.0 psf
<sup>1</sup> Roof Dead Load			
<b>Asphalt Shingles</b>	2.0 psf	<b>No Drywall</b>	0.0 psf
<b>5/8" Plywood Sheathing</b>	2.0 psf	<b>Solar Panel Array</b>	2.89 psf
<b>Roof Framing</b>	1.1 psf	<b>Dead Load Without Panels</b>	6.3 psf
<b>Insulation</b>	1.2 psf		

<sup>1</sup>Roof Dead Load is taken from the worst case scenario dead load from all arrays of the job in order to provide a more conservative evaluation.



Array 1



Array Details		Beam Stresses			
Roof Pitch	19°	Beam Span	14.5'	Panel Orientation	Portrait
Panel Quantity	37	Spacing	24.0"	# of Panels on Rafter	2
Panel Area	650.55 ft²	Roof Framing Type	2x4 Fink DF No.2	Panel Distance From Eave	18.0"

Wind Calculations - ASCE 7-16		Roof Attachments: NanoMount ((1)-5/16" lag into substructure) 5/16" lag screw	
GC <sub>p</sub> Zone 2r <i>Figure 30.3-(2A-5B)</i>	-3.0	Shear Capacity <i>Manufacture testing</i>	230.0 lbs
K <sub>z</sub> <i>Table 26.10-1</i>	0.57	Pullout Capacity <i>Manufacture testing</i>	148.0 lbs
K <sub>ht</sub> <i>Equation 26.8-1</i>	1	Lag Screw Embedment	2.5"
K <sub>d</sub> <i>Table 26.6-1</i>	0.85	Pullout Tributary Area	6.0 ft²
K <sub>e</sub> <i>Table 26.9-1</i>	1.0	Shear Tributary Area	244.6 ft²
Wind Speed (V <sub>ult</sub> ) <i>Local Design Criteria</i>	140.0 mph	Max Connection Spacing	27"
Velocity Pressure <i>Equation 26.10-1</i>	24.42 psf		
Design Pressure <i>Equation 29.4-7 γ<sub>E</sub>=1.5 γ<sub>a</sub>=0.4</i>	-43.96 psf		

## Design Ratio

Member ID	P	M <sub>z</sub>	V <sub>y</sub>	C	SI	D	Status
1	0.12	0.283	0.105	0.297	0.035	0.125	Pass
2	0.131	0.605	0.27	0.621	0.035	0.248	Pass
3	0.267	0.025	0.002	0.292	0.078	0.015	Pass
4	0.004	0.115	0.088	0.119	0.035	0.375	Pass
5	0.004	0.115	0.091	0.12	0.035	0.793	Pass
6	0.035	0.0	0.0	0.035	0.066	0.0	Pass
7	0.081	0.0	0.0	0.081	0.066	0.0	Pass
8	0.035	0.0	0.0	0.035	0.046	0.0	Pass
9	0.082	0.0	0.0	0.082	0.046	0.0	Pass
10	0.202	0.015	0.001	0.217	0.078	0.007	Pass
11	0.154	0.025	0.001	0.179	0.078	0.021	Pass
12	0.108	0.401	0.17	0.412	0.035	0.283	Pass
13	0.162	0.605	0.261	0.63	0.035	0.192	Pass

## Member Design Capacity (LRFD)

Member ID	F <sub>o</sub> (ksi)	F <sub>t</sub> (ksi)	F <sub>v</sub> (ksi)	F <sub>c</sub> (ksi)	F <sub>cp</sub> (ksi)	E' (ksi)	E <sub>min</sub> (ksi)
1	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
2	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
3	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
4	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
5	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
6	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
7	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
8	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
9	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
10	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
11	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
12	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
13	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216

## Node Coordinates

ID	X Coordinate	Y Coordinate
1	0.000	0.000
2	14.500	4.993
3	29.000	0.000
4	-1.500	-0.516
5	30.500	-0.516
6	9.667	0.000
7	19.333	0.000
8	7.250	2.496
9	21.750	2.496

## Members

ID	Node A	Node B	Section	Node A Fixity	Node B Fixity	Length
1	1	8	1	FFFFF	FFFFF	7.668
2	2	9	1	FFFFR	FFFFF	7.668
3	3	7	1	FFFFR	FFFFF	9.667
4	4	1	1	FFFFF	FFFFF	1.586
5	3	5	1	FFFFF	FFFFF	1.586
6	2	6	1	FFFFR	FFFFR	6.949
7	2	7	1	FFFFR	FFFFR	6.949
8	6	8	1	FFFFR	FFFFR	3.475
9	7	9	1	FFFFR	FFFFR	3.475
10	6	1	1	FFFFF	FFFFR	9.667
11	7	6	1	FFFFF	FFFFF	9.667
12	8	2	1	FFFFF	FFFFR	7.668
13	9	3	1	FFFFF	FFFFF	7.668

**Supports**

ID	Node ID	Restraint Code
1	1	FFFFRR
2	3	RFFRRR

**Materials**

ID	Name	Young's Modulus	Density	Poisson's Ratio
1	NDS - Table 4A - DOUGLAS FIR-LARCH - No.2 - 2in & wider	1600,000	33.611	0.400

**Sections**

ID	Name	Depth	Width	Shear Area Z	Shear Area Y	Torsion Radius
1	2 x 4	3.500	1.500	4.375	4.375	1.437

ID	Centroid Y	Centroid Z	Area	Y-Axis Mol	Z-Axis Mol	Torsion Constant
1	0.750	1.750	5.250	0.984	5.359	2.875

**Point Loads**

ID	Load Group	Member	Position %	Y Magnitude
1	Solar-Snow	1	11.914%	0.000
2	Solar	1	11.914%	-0.028
3	Solar-Snow	1	82.470%	0.000
4	Solar	1	82.470%	-0.028

**Member Distributed Loads**

ID	Load Group	Start Position	End Position	Member	Y Magnitude
1	Dead Load	0.000%	100.000%	4	-0.013
2	Dead Load	0.000%	100.000%	1	-0.013
3	Dead Load	0.000%	100.000%	2	-0.013
4	Dead Load	0.000%	100.000%	5	-0.013
5	Roof Live Load	0.000%	94.552%	4	-0.032
6	Roof Live Load	39.983%	100.000%	12	-0.032
7	Roof Live Load	0.000%	100.000%	2	-0.032
8	Roof Live Load	0.000%	100.000%	5	-0.032
9	Snow Load	0.000%	94.552%	4	0.000
10	Snow Load	39.983%	100.000%	12	0.000
11	Snow Load	0.000%	100.000%	2	0.000
12	Snow Load	0.000%	100.000%	5	0.000
13	Dead Load	0.000%	100.000%	12	-0.013
14	Dead Load	0.000%	100.000%	13	-0.013
15	Roof Live Load	0.000%	100.000%	13	-0.032
16	Snow Load	0.000%	100.000%	13	0.000

**Load Combinations**

ID	Name	Dead Load Factor	Snow Load Factor	Solar Factor	Solar-Snow Factor	Roof Live Load Factor
1	1, 1.4D	1.4	0	1.4	0	0
2	3, 1.2D + 1.6Lr	1.2	0	1.2	0	1.6
3	3, 1.2D + 1.6S	1.2	1.6	1.2	1.6	0
4	4, service loads A	0	1	0	1	0
5	5, service loads B	0	0	0	0	1

**Internal Member Forces and Moments**

Member	Axial Force (Min/Max)	Shear Force Y (Min/Max)	Shear Force Z (Min/Max)	Torsion (Min/Max)	Bending Moment Y (Min/Max)	Bending Moment Z (Min/Max)
1	1.637 / 1.697	-0.114 / 0.088	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.193 / 0.011
2	1.674 / 1.840	-0.294 / 0.186	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.414 / 0.277
3	-2.088 / -2.088	0.002 / 0.002	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.017

4	-0.033 / 0.000	-0.095 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.079 / 0.000
5	-0.034 / 0.000	0.000 / 0.099	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.079 / 0.000
6	-0.272 / -0.272	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
7	-0.635 / -0.635	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
8	0.272 / 0.272	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
9	0.639 / 0.639	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
10	-1.580 / -1.580	-0.001 / -0.001	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.010
11	-1.202 / -1.202	-0.001 / -0.001	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.010 / 0.017
12	1.407 / 1.522	-0.186 / 0.147	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.193 / 0.274
13	2.111 / 2.276	-0.197 / 0.284	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.414 / 0.228

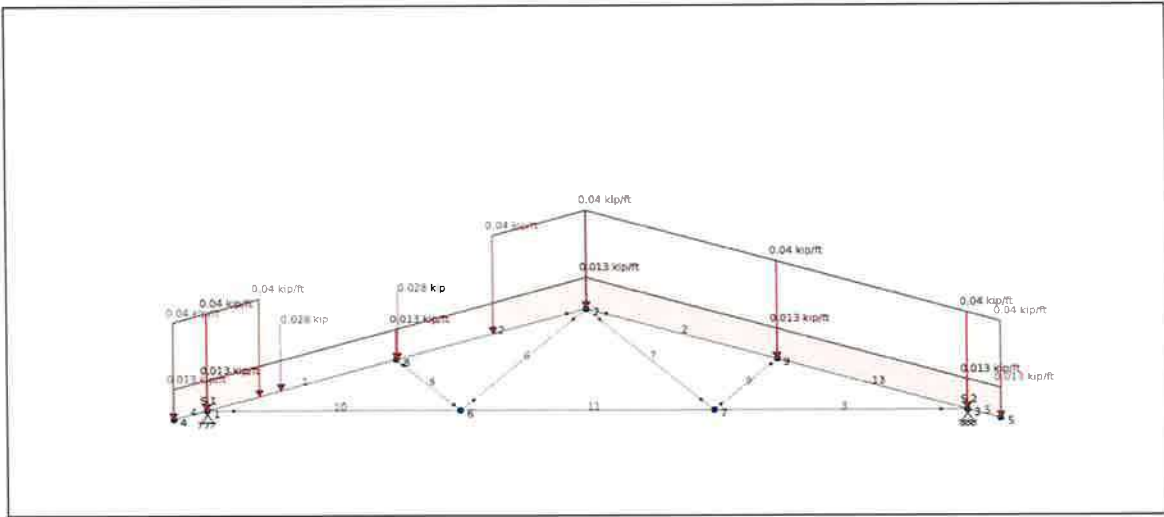
### Member Displacement Span Check

Member	Length	Max Relative Displacement	Span Method 1
1	7.668	0.064	L/1437
2	7.668	0.127	L/726
3	9.667	0.010	L/11887
4	1.586	0.040	L/480
5	1.586	0.084	L/227
6	6.949	0.000	L/277968398166
7	6.949	0.000	L/104184737106
8	3.475	0.000	L/66710999812
9	3.475	0.000	L/59706396531
10	9.667	0.004	L/27195
11	9.667	0.014	L/8400
12	7.668	0.144	L/636
13	7.668	0.098	L/938

### Member Stresses

Member	Axial Stress (Min/Max)	Torsion Stress (Min/Max)	Shear Stress Y (Min/Max)	Shear Stress Z (Min/Max)	Top Bending Moment Z (Min/Max)	Bottom Bending Moment Z (Min/Max)
1	0.312 / 0.323	0.000 / 0.000	-0.033 / 0.025	0.000 / 0.000	-0.757 / 0.043	-0.043 / 0.757
2	0.319 / 0.350	0.000 / 0.000	-0.084 / 0.053	0.000 / 0.000	-1.621 / 1.085	-1.085 / 1.621
3	-0.398 / -0.398	0.000 / 0.000	0.001 / 0.001	0.000 / 0.000	0.000 / 0.067	-0.067 / 0.000
4	-0.006 / 0.000	0.000 / 0.000	-0.027 / 0.000	0.000 / 0.000	-0.308 / 0.000	0.000 / 0.308
5	-0.007 / 0.000	0.000 / 0.000	0.000 / 0.028	0.000 / 0.000	-0.309 / 0.000	0.000 / 0.309
6	-0.052 / -0.052	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
7	-0.121 / -0.121	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
8	0.052 / 0.052	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
9	0.122 / 0.122	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
10	-0.301 / -0.301	0.000 / 0.000	-0.000 / -0.000	0.000 / 0.000	0.000 / 0.041	-0.041 / 0.000
11	-0.229 / -0.229	0.000 / 0.000	-0.000 / -0.000	0.000 / 0.000	0.041 / 0.067	-0.067 / -0.041
12	0.268 / 0.290	0.000 / 0.000	-0.053 / 0.042	0.000 / 0.000	-0.757 / 1.075	-1.075 / 0.757
13	0.402 / 0.434	0.000 / 0.000	-0.056 / 0.081	0.000 / 0.000	-1.621 / 0.892	-0.892 / 1.621

## Array 2



Array Details		Beam Stresses			
Roof Pitch	15°	Beam Span	17.0'	Panel Orientation	Portrait
Panel Quantity	14	Spacing	24.0"	# of Panels on Rafter	2
Panel Area	246.16 ft <sup>2</sup>	Roof Framing Type	2x4 Fink DF No.2	Panel Distance From Eave	48.0"

Wind Calculations - ASCE 7-16		Roof Attachments: NanoMount ((1)-5/16" lag into substructure) 5/16" lag screw	
<b>GC<sub>p</sub> Zone 2r</b> <i>Figure 30.3-(2A-5B)</i>	-3.0	<b>Shear Capacity</b> <i>Manufacture testing</i>	230.0 lbs
<b>K<sub>z</sub></b> <i>Table 26.10-1</i>	0.57	<b>Pullout Capacity</b> <i>Manufacture testing</i>	148.0 lbs
<b>K<sub>ht</sub></b> <i>Equation 26.8-1</i>	1	<b>Lag Screw Embedment</b>	2.5"
<b>K<sub>d</sub></b> <i>Table 26.6-1</i>	0.85	<b>Pullout Tributary Area</b>	4.9 ft <sup>2</sup>
<b>K<sub>e</sub></b> <i>Table 26.9-1</i>	1.0	<b>Shear Tributary Area</b>	307.6 ft <sup>2</sup>
<b>Wind Speed (V<sub>ult</sub>)</b> <i>Local Design Criteria</i>	140.0 mph	<b>Max Connection Spacing</b>	22"
<b>Velocity Pressure</b> <i>Equation 26.10-1</i>	24.42 psf		
<b>Design Pressure</b> <i>Equation 29.4-7 γ<sub>E</sub>=1.5 γ<sub>a</sub>=0.48</i>	-52.73 psf		



## Design Ratio

Member ID	P	M <sub>z</sub>	V <sub>y</sub>	C	SI	D	Status
1	0.198	0.407	0.177	0.446	0.035	0.051	Pass
2	0.215	0.974	0.379	1.02	0.035	0.477	Pass
3	0.461	0.045	0.002	0.506	0.084	0.033	Pass
4	0.004	0.135	0.109	0.139	0.035	0.27	Pass
5	0.004	0.135	0.109	0.139	0.035	1.782	Pass
6	0.05	0.0	0.0	0.05	0.067	0.0	Pass
7	0.128	0.0	0.0	0.128	0.067	0.0	Pass
8	0.05	0.0	0.0	0.05	0.048	0.0	Pass
9	0.129	0.0	0.0	0.129	0.048	0.0	Pass
10	0.338	0.027	0.001	0.365	0.084	0.015	Pass
11	0.261	0.045	0.001	0.306	0.084	0.047	Pass
12	0.176	0.524	0.216	0.554	0.035	0.376	Pass
13	0.27	0.974	0.369	1.046	0.035	0.398	Pass

## Member Design Capacity (LRFD)

Member ID	F <sub>b</sub> <sup>t</sup> (ksi)	F <sub>t</sub> <sup>t</sup> (ksi)	F <sub>v</sub> <sup>t</sup> (ksi)	F <sub>c</sub> <sup>t</sup> (ksi)	F <sub>cp</sub> <sup>t</sup> (ksi)	E <sub>t</sub> (ksi)	E <sub>min</sub> <sup>t</sup> (ksi)
1	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
2	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
3	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
4	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
5	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
6	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
7	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
8	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
9	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
10	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
11	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
12	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
13	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216

## Node Coordinates

ID	X Coordinate	Y Coordinate
1	0.000	0.000
2	17.000	4.555
3	34.000	0.000
4	+1.500	-0.402
5	35.500	-0.402
6	11.333	0.000
7	22.667	0.000
8	8.500	2.278
9	25.500	2.278

## Members

ID	Node A	Node B	Section	Node A Fixity	Node B Fixity	Length
1	1	8	1	FFFFF	FFFFF	8.800
2	2	9	1	FFFFR	FFFFF	8.800
3	3	7	1	FFFFR	FFFFF	11.333
4	4	1	1	FFFFF	FFFFF	1.553
5	3	5	1	FFFFF	FFFFF	1.553
6	2	6	1	FFFFR	FFFFR	7.271
7	2	7	1	FFFFR	FFFFR	7.271
8	6	8	1	FFFFR	FFFFR	3.635
9	7	9	1	FFFFR	FFFFR	3.635
10	6	1	1	FFFFF	FFFFR	11.333
11	7	6	1	FFFFF	FFFFF	11.333
12	8	2	1	FFFFF	FFFFR	8.800
13	9	3	1	FFFFF	FFFFF	8.800



Supports

ID	Node ID	Restraint Code
1	1	FFFFRR
2	3	RFFRRR

Materials

ID	Name	Young's Modulus	Density	Poisson's Ratio
1	NDS - Table 4A - DOUGLAS FIR-LARCH - No.2 - 2in & wider	1600,000	33.611	0.400

Sections

ID	Name	Depth	Width	Shear Area Z	Shear Area Y	Torsion Radius
1	2 x 4	3,500	1,500	4,375	4,375	1,437

ID	Centroid Y	Centroid Z	Area	Y-Axis Mol	Z-Axis Mol	Torsion Constant
1	0,750	1,750	5,250	0.984	5,359	2,875

Point Loads

ID	Load Group	Member	Position %	Y Magnitude
1	Solar-Snow	1	39.172%	0.000
2	Solar	1	39.172%	-0.028
3	Solar-Snow	12	0.650%	0.000
4	Solar	12	0.650%	-0.028

Member Distributed Loads

ID	Load Group	Start Position	End Position	Member	Y Magnitude
1	Dead Load	0.000%	100.000%	4	-0.013
2	Dead Load	0.000%	100.000%	1	-0.013
3	Dead Load	0.000%	100.000%	2	-0.013
4	Dead Load	0.000%	100.000%	5	-0.013
5	Roof Live Load	0.000%	100.000%	4	-0.040
6	Roof Live Load	0.000%	27.808%	1	-0.040
7	Roof Live Load	50.765%	100.000%	12	-0.040
8	Roof Live Load	0.000%	100.000%	2	-0.040
9	Roof Live Load	0.000%	100.000%	5	-0.040
10	Snow Load	0.000%	100.000%	4	0.000
11	Snow Load	0.000%	27.808%	1	0.000
12	Snow Load	50.765%	100.000%	12	0.000
13	Snow Load	0.000%	100.000%	2	0.000
14	Snow Load	0.000%	100.000%	5	0.000
15	Dead Load	0.000%	100.000%	12	-0.013
16	Dead Load	0.000%	100.000%	13	-0.013
17	Roof Live Load	0.000%	100.000%	13	-0.040
18	Snow Load	0.000%	100.000%	13	0.000

Load Combinations

ID	Name	Dead Load Factor	Snow Load Factor	Solar Factor	Solar-Snow Factor	Roof Live Load Factor
1	1, 1.4D	1.4	0	1.4	0	0
2	3, 1.2D + 1.6Lr	1.2	0	1.2	0	1.6
3	3, 1.2D + 1.6S	1.2	1.6	1.2	1.6	0
4	4, service loads A	0	1	0	1	0
5	5, service loads B	0	0	0	0	1

Internal Member Forces and Moments

Member	Axial Force (Min/Max)	Shear Force Y (Min/Max)	Shear Force Z (Min/Max)	Torsion (Min/Max)	Bending Moment Y (Min/Max)	Bending Moment Z (Min/Max)
1	2,706 / 2,789	-0,119 / 0,193	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0,279 / 0,151


2	2.851 / 3.031	-0.412 / 0.261	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.666 / 0.444
3	-3.607 / -3.607	0.003 / 0.003	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.031
4	-0.032 / 0.000	-0.119 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	<b>-0.092 / 0.000</b>
5	-0.032 / 0.000	0.000 / 0.119	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.092 / 0.000
6	-0.387 / -0.387	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
7	-1.002 / -1.002	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
8	0.388 / 0.388	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
9	1.008 / 1.008	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
10	-2.644 / -2.644	-0.002 / -0.002	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.018
11	-2.040 / -2.040	-0.001 / -0.001	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.018 / 0.031
12	2.361 / 2.476	-0.235 / 0.194	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.279 / 0.358
13	3.626 / 3.806	-0.271 / 0.402	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.666 / 0.386

### Member Displacement Span Check

Member	Length	Max Relative Displacement	Span Method 1
1	8.800	0.030	L/3508
2	8.800	0.279	L/377
3	11.333	0.025	L/5404
4	1.553	0.028	L/666
5	1.553	0.183	L/101
6	7.271	0.000	L/17449232773
7	7.271	0.000	L/13956587307
8	3.635	0.000	L/87244614087
9	3.635	0.000	L/8724619486
10	11.333	0.011	L/12262
11	11.333	0.036	L/3809
12	8.800	0.220	L/479
13	8.800	0.233	L/452

### Member Stresses

Member	Axial Stress (Min/Max)	Torsion Stress (Min/Max)	Shear Stress Y (Min/Max)	Shear Stress Z (Min/Max)	Top Bending Moment Z (Min/Max)	Bottom Bending Moment Z (Min/Max)
1	0.515 / 0.531	0.000 / 0.000	-0.034 / 0.055	0.000 / 0.000	-1.091 / 0.593	-0.593 / 1.091
2	0.543 / 0.577	0.000 / 0.000	-0.118 / 0.074	0.000 / 0.000	-2.612 / 1.738	-1.738 / 2.612
3	-0.687 / -0.687	0.000 / 0.000	0.001 / 0.001	0.000 / 0.000	0.000 / 0.120	-0.120 / 0.000
4	-0.006 / 0.000	0.000 / 0.000	-0.034 / 0.000	0.000 / 0.000	-0.361 / 0.000	0.000 / 0.361
5	-0.006 / 0.000	0.000 / 0.000	0.000 / 0.034	0.000 / 0.000	-0.361 / 0.000	0.000 / 0.361
6	-0.074 / -0.074	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
7	-0.191 / -0.191	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
8	0.074 / 0.074	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
9	0.192 / 0.192	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000
10	-0.504 / -0.504	0.000 / 0.000	-0.000 / -0.000	0.000 / 0.000	0.000 / 0.072	-0.072 / 0.000
11	-0.389 / -0.389	0.000 / 0.000	-0.000 / -0.000	0.000 / 0.000	0.072 / 0.120	-0.120 / -0.072
12	0.450 / 0.472	0.000 / 0.000	-0.067 / 0.055	0.000 / 0.000	-1.091 / 1.405	-1.405 / 1.091
13	0.691 / 0.725	0.000 / 0.000	-0.077 / 0.115	0.000 / 0.000	-2.612 / 1.512	-1.512 / 2.612



SUNLIGHT ENTERPRISE  
7515 KINGSPOINT OAKWAY  
SUITE #4 - ORLANDO, FL 32819  
(321) 888-3388

REVISIONS	
DESCRIPTION	DATE

Signature with Seal

PROJECT NAME & ADDRESS

STIVEN PALSENCIO  
RESIDENCE  
336 NE 43RD CT  
OCALA, FL 34470  
PH.# : (914) 354-4367

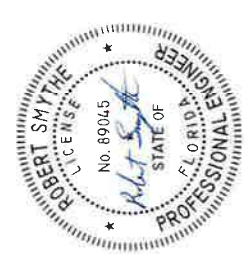
DATE: 11/28/2022

SHEET NAME  
STRING  
LAYOUT & BOM

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
PV-2A

BILL OF MATERIALS	
EQUIPMENT	DESCRIPTION
SOLAR PV MODULE	51 LONGI SOLAR LR4-60HPB 350MM MODULES
INVERTER	51 ENPHASE IQ7PLUS-72-2-US [240V] MICROINVERTER
JUNCTION BOX	2 JUNCTION BOX, NEMA 3R, UL LISTED
COMBINER BOX	1 ENPHASE IQ COMBINER 3 W/ IQ ENVOY (X-IQ-AM1-240-3)
AC DISCONNECT	1 100A FUSED AC DISCONNECT, (2) 80A FUSES, 240V, NEMA 3R, UL LISTED
ATTACHMENT	101 NANO DECK MOUNT
ATTACHMENT	101 NANO GASKET
ATTACHMENT	404 SELF-TAPING SCREW #6 3X76
ATTACHMENT	404 SEALING WASHER .26ID X .50X .125
ENPHASE Q CABLE	60 ENPHASE Q CABLE 240V, (PER CONNECTOR)
BRANCH TERMINATOR	4 BRANCH TERMINATOR
IQ WATER TIGHT CAP	9 IQ WATER TIGHT CAP
RAILS	26 SUNMODO SMR 100 RAIL- 14 FEET (168")
BONDED SPLICE CLAMP	18 SPLICE KIT
CLAMP	114 MODULES CLAMPS (MID CLAMPS)
CLAMP	24 MODULES CLAMPS (END CLAMPS)
GROUNDING LUG	6 GROUNDING LUG



Robert Smythe  
Professional Engineer  
No. 89045  
State of Florida

Digitally signed by Robert Smythe  
DN  
E=robert@lightsunlight.com,  
O=Sunlight Solar, Inc.,  
OU=Senior Engineering,  
C=US  
Date: 2023.02.08  
12:45:09-07'00'

Robert Smythe  
02/08/2023

This item has been electronically signed and sealed by Robert Smythe on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy  
FAC 61G15-23.004

1

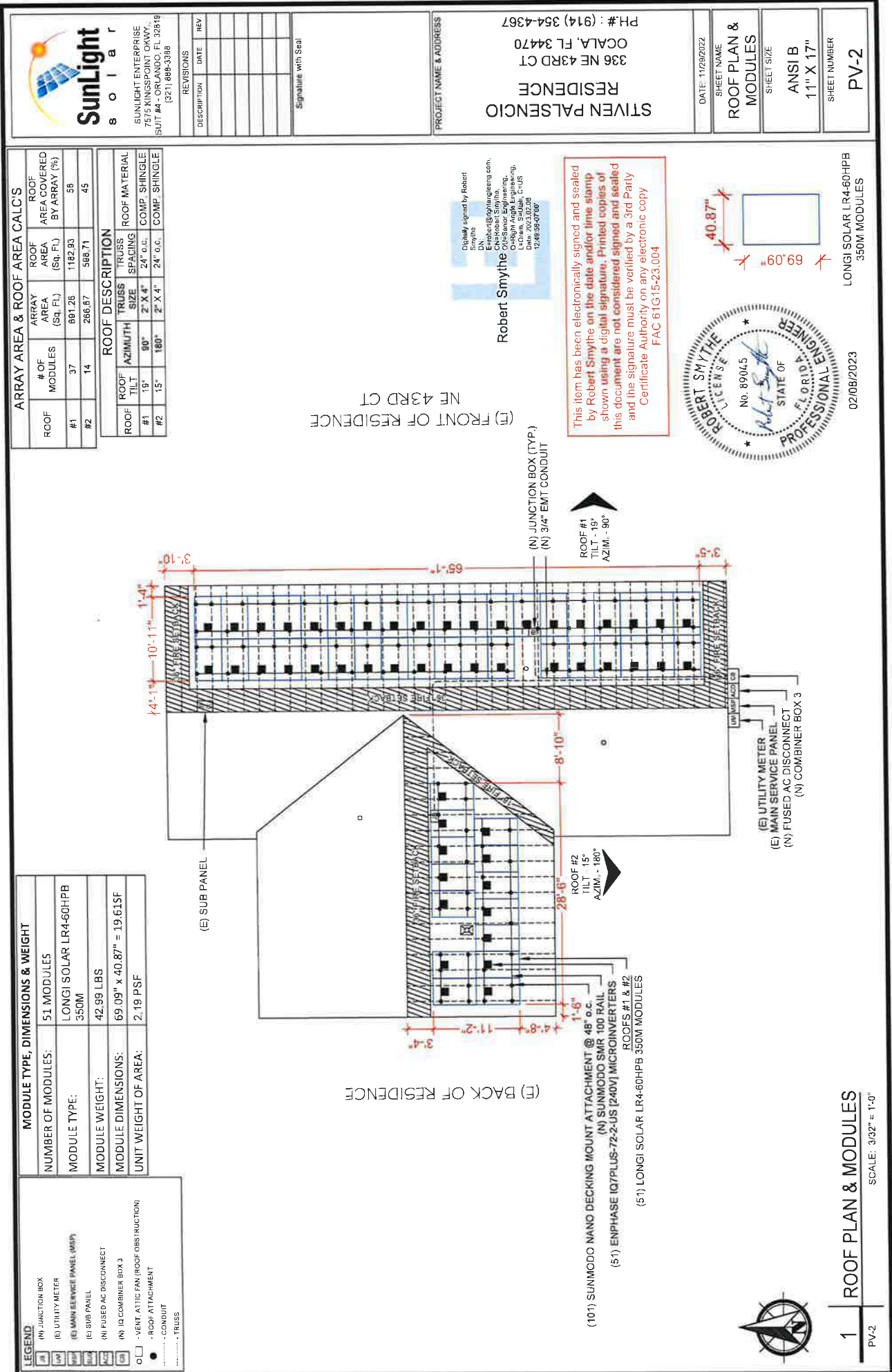
PV-2A

STRING LAYOUT & BOM

SCALE: 1/8" = 1'-0"













SunLight

Solar

SUNLIGHT ENTERPRISE

7575 KINGSPOINT CIRCLE

SUIT #4 - ORLANDO, FL 32819

(321) 866-5366

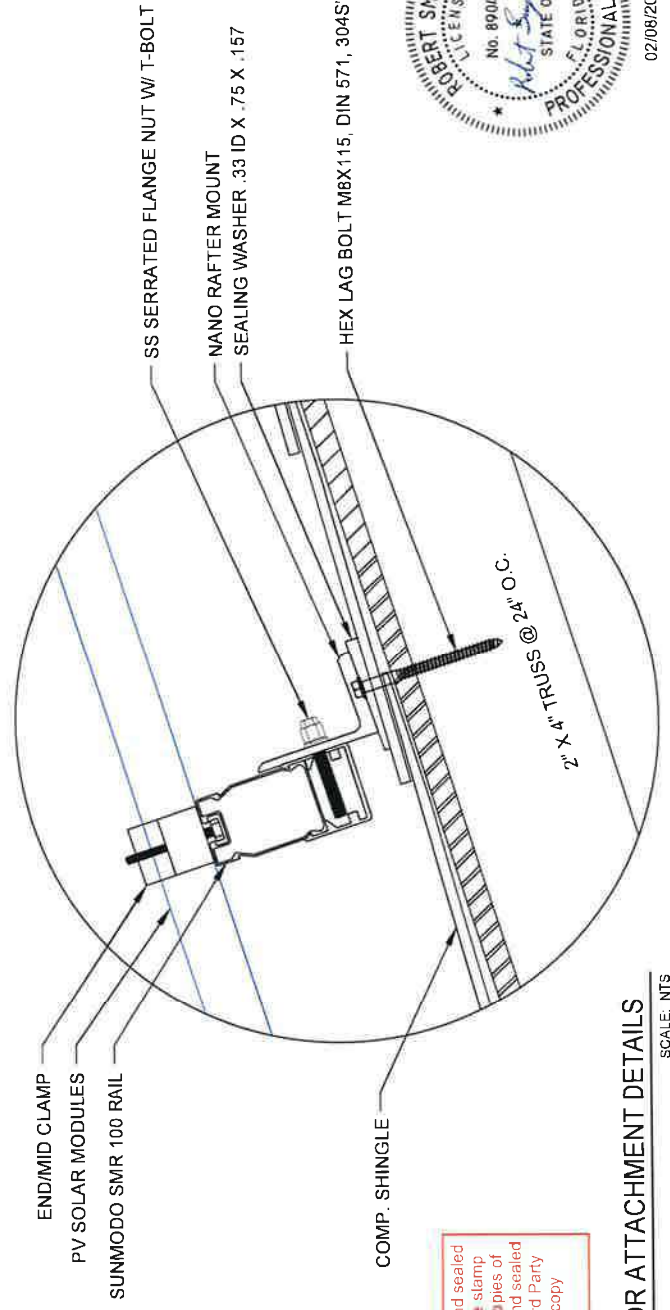
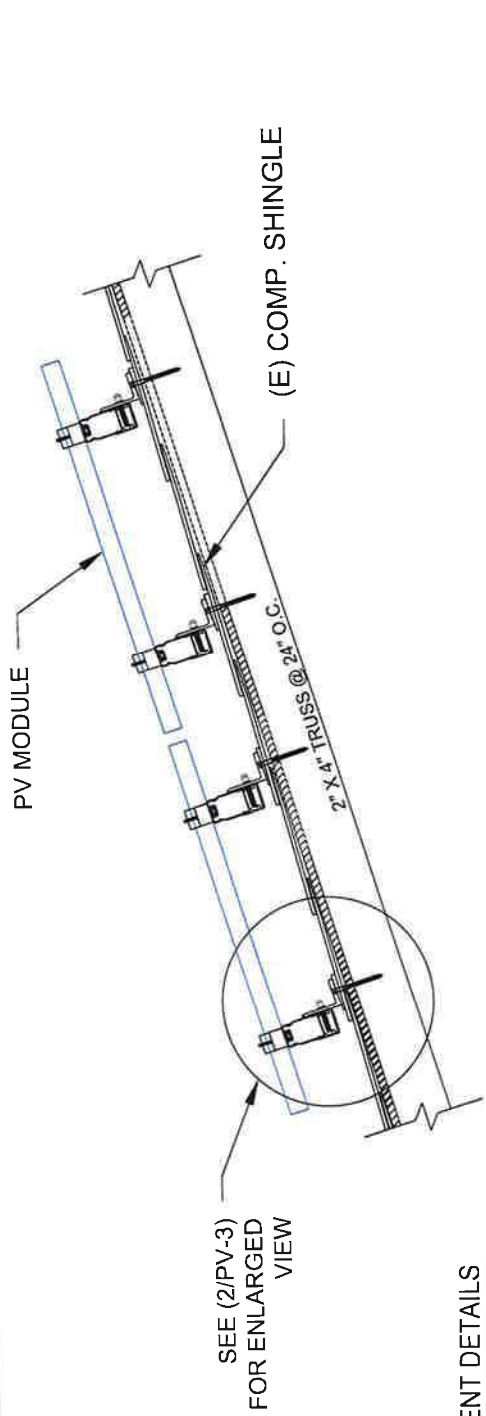
REVISIONS		DATE	REV
DESCRIPTION			

Signature with Seal

PROJECT NAME & ADDRESS

STIVEN PALSENCIO  
RESIDENCE  
336 NE 43RD CT  
OCALA, FL 34470  
PH #: (914) 354-4367

DATE: 11/29/2022
SHEET NAME ATTACHMENT DETAIL
SHEET SIZE ANSI B 11" X 17"
SHEET NUMBER PV-3



1 ATTACHMENT DETAILS

PV-3

Digitally signed by Robert Smythe  
DN:  
E=robert@rightangleeng.com,  
OU=Right Angle Engineering,  
L=Orem, ST=Utah, C=US  
Date: 2023.02.08  
12:46:13-07'00'

Robert Smythe

This item has been electronically signed and sealed by Robert Smythe on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy  
FAC 61G15-23.004

2 ENLARGED VIEW FOR ATTACHMENT DETAILS

SCALE: NTS

PV-3

### Rafter or Deck Mount



5 levels of protection against water penetration

Open L-Foot for fast rail attachment

4 Deck Screws for Deck Mount or  
1 Lag Bolt for Rafter Mount



**The NanoMount® Advantage**

- ✓ The fastest roof attachment in solar.
- ✓ Versatile mounting options including direct-to-decking.
- ✓ Eliminates the need to lift shingles and prevents damage to shingles.
- ✓ High-Velocity Hurricane Zone Approved - Passed TAS 100 (a) Wind-Driven Rain Test.
- ✓ All materials are compatible with asphalt shingles and single-ply roof membranes.

**Damaging roof shingles used to be one of a solar installer's worst challenges.**

Now, the easy, affordable solution is NanoMount<sup>®</sup>, SunModo's patented solar mounting innovation.

The mount eliminates the need for lifting shingles and dramatically reduces the installation time.


## Technical Data

Technical Data	
Application	Residential roof coverings, commercial single-ply roof membranes
Material	High grade aluminum, 304 stainless steel hardware
Finish	Black powder coating
Roof Attachment	Rafter and decking
Structural integrity	IBC and IRC Compliant
Warranty	25 years

SunModo, Corp. Vancouver, WA, USA • [www.sunmodo.com](http://www.sunmodo.com) • 360.844.0048 • [info@sunmodo.com](mailto:info@sunmodo.com)







SUNLIGHT ENTERPRISE

7515 KINGSPONT OAKWAY,  
SUITE 44 - ORLANDO, FL 32819  
(321) 888-3388

REVISIONS	
DESCRIPTION	DATE

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PROJECT NAME & ADDRESS

STIVEN PALSENCIO  
RESIDENCE  
336 NE 43RD CT  
OCALA, FL 34470  
PH.#: (914) 354-4367

SHEET NAME

EQUIPMENT  
SPECIFICATION

SHEET SIZE

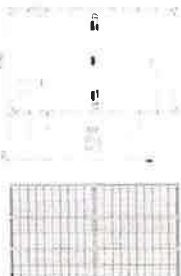
ANSI B  
11" X 17"

SHEET NUMBER

PV-7

DATE: 11/28/2022

Design (mm)



Mechanical Parameters

Lighting: 1000W/m²

Operating Temperature: 25°C

Temperature Coefficient: -0.45%/°C

Power: 345W

Current: 9.0A

Voltage: 38.3V

Efficiency: 21.6%

Dimensions: 1750mm x 1050mm x 30mm

Weight: 21.6kg

Material: Monocrystalline Silicon

Warranty: 12 years


Electrical Characteristics

Parameter	Value
Maximum Power (Pmax)	345W
Open Circuit Voltage (Voc)	44.5V
Short Circuit Current (Isc)	9.0A
Maximum Power Voltage (Vmp)	38.3V
Maximum Power Current (Imp)	9.0A
Temperature Coefficient of Pmax	-0.45%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.05%/°C

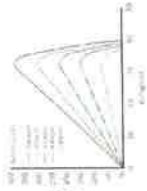
Temperature Rating (STC)

Parameter	Value
Temperature Coefficient of Pmax	-0.45%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.05%/°C

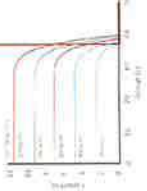
Current Voltage Curve (I-V Curve)



Power-Voltage Curve (P-V Curve)



Current Voltage Curve (I-V Curve)



Longi logo

LR4-60HPB  
345~370M

High Efficiency  
Low LID Mono PERC with  
Half-cut Technology

12-year Warranty for Materials and Processing

25-year Warranty for Extra Usable Power Output

+4.10%

-0.55%

Standard Key Performance Indicators

Standard Key Performance Indicators

Positive power tolerance (+1% +5% guaranteed)

High module conversion efficiency (up to 23.3%)

Slower power degradation (initially, less than 0.5% per year, less than 0.3% per year after 5 years)

Solid PID resistance (reduced by solar cell process optimization, first and second generation)


Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with no hot spot effect, 100% hot spot tolerance, lower operating current

Longi logo

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<div><div>SUNLIGHT ENTERPRISE 7575 KINGSPOINT OAKY, SUITE #4 - ORLANDO, FL 32818 (321) 868-3388</div></div>		<div>REVISIONS</div> <table><thead><tr><th>DESCRIPTION</th><th>DATE</th><th>REV</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		DESCRIPTION	DATE	REV													<div>Signature with Seal</div>	
DESCRIPTION	DATE	REV																		
PROJECT NAME & ADDRESS		PH.# : (914) 354-4367 336 NE 43RD CT OCALA, FL 34470 RESIDENCE STIVEN PALSENCIO		DATE: 11/29/2022 SHEET NAME SPECIFICATIONS & CALC. SHEET SIZE ANSI B 11" X 17" SHEET NUMBER PV-5																

Digitally signed by Robert Smythe

DN: E=robert@rightangleeng.com, CN=Robert Smythe, OU=Senior Engineering, O=Right Angle Engineering, L=Orem, S=Utah, C=US

Date: 2023.02.08 12:50:13-07'00'

Robert Smythe




ROBERT SMYTHE

No. 89045

STATE OF FLORIDA

PROFESSIONAL ENGINEER



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FAC 61G15-23.004

SOLAR MODULE SPECIFICATIONS

MANUFACTURER / MODEL	LONGI SOLAR LR4-60HPB 350M
VMP	34.4 V
IMP	10.18 A
VOC	40.4 V
ISC	11.16 A
TEMP. COEFF. VOC	-0.27 %/°C
MODULE DIMENSION	69.09" (L) x 40.87" (W)
PANEL WATTAGE	350W

INVERTER SPECIFICATIONS

MANUFACTURER / MODEL	ENPHASE IQ7PLUS-72-2-US
MAX DC SHORT CIRCUIT CURRENT	15 A
CONTINUOUS OUTPUT CURRENT	1.21A (240VAC)

AMBIENT TEMPERATURE SPECS

RECORD LOW TEMP	-6°C
AMBIENT TEMP (HIGH TEMP 2%)	34°C
CONDUIT HEIGHT	0.5"
ROOF TOP TEMP	56°C

ELECTRICAL NOTES

1.) ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR IT'S APPLICATION

2.) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 800 V AND 90 DEGREE C WET ENVIRONMENT.

3.) WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.

4.) WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.

5.) DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS, CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.

6.) WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.

7.) ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.

8.) MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.

9.) MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.

10.) THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE

DC CONDUCTOR AMPACITY CALCULATIONS:  
ARRAY TO JUNCTION BOX-1

EXPECTED WIRE TEMP	56°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	4
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	N/A
CIRCUIT CONDUCTOR SIZE	12AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	N/A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	19.7A
1.21 x Imax	
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	N/A
Result should be greater than (19.7A) otherwise less the entry for circuit conductor size and ampacity	

FROM JUNCTION BOX-1 TO IQ COMBINER BOX 3

EXPECTED WIRE TEMP	34°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	4
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	0.8
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	40A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	19.7A
1.45 X Imax	
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	30.7A
Result should be greater than (19.7A) otherwise less the entry for circuit conductor size and ampacity	

DC CONDUCTOR AMPACITY CALCULATIONS:  
ARRAY TO JUNCTION BOX-2

EXPECTED WIRE TEMP	56°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	4
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	N/A
CIRCUIT CONDUCTOR SIZE	12AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	N/A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	19.7A
1.25 x Imax	
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	N/A
Result should be greater than (19.7A) otherwise less the entry for circuit conductor size and ampacity	

FROM JUNCTION BOX-2 TO IQ COMBINER BOX 3

EXPECTED WIRE TEMP	34°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	4
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	0.8
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	40A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	19.7A
1.25 X Imax	
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	30.7A
Result should be greater than (19.7A) otherwise less the entry for circuit conductor size and ampacity	

AC CONDUCTOR AMPACITY CALCULATIONS  
IQ COMBINER BOX 3 TO FUSED AC DISCONNECT:

NO. OF INVERTER	51
EXPECTED WIRE TEMP	34°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	1
CIRCUIT CONDUCTOR SIZE	4AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	95A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	
1.25 x INVERTER OUTPUT CURRENT x NO. OF MICROINVERTER	77.1A
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	91.2A
Result should be greater than (77.1A) otherwise less the entry for circuit conductor size and ampacity	

AC CONDUCTOR AMPACITY CALCULATIONS  
FUSED AC DISCONNECT TO MSP:

NO. OF INVERTER	51
EXPECTED WIRE TEMP	34°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	1
CIRCUIT CONDUCTOR SIZE	4AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	95A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	
1.25 x INVERTER OUTPUT CURRENT x NO. OF MICROINVERTER	77.1A
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	91.2A
Result should be greater than (77.1A) otherwise less the entry for circuit conductor size and ampacity	

STIVEN PALSENCIO  
RESIDENCE  
336 NE 43RD CT  
OCALA, FL 34470  
PH #: (914) 354-4367

02/08/2023

PROFESSIONAL ENGINEER  
FLORIDA  
No. 89045  
STATE OF FLORIDA  
ROBERT SMYTHE  
LICENSE  
No. 89045

DATE: 11/28/2022  
SHEET NAME  
SPECIFICATIONS & CALC.

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
PV-5A

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Digitally signed by Robert Smythe  
DN:  
c=US, o=Robert Smythe Engineering, ou=Robert Smythe Engineering, email=Robert.Smythe@rsengineering.com, cn=Robert Smythe  
Date: 2023.02.08 12:58:42-07'00'



Calculating AC Line Voltage Rise for IQ7+ Micros with Q Cable:

**Voltage rise in Q Cable from the Microinverters to the Junction Box**

For branch circuit #1 of 13 IQ 7+ Micros, the voltage rise on the 240 VAC Q Cable is 0.77%  
For branch circuit #2 of 12 IQ 7+ Micros, the voltage rise on the 240 VAC Q Cable is 0.66%  
For branch circuit #3 of 13 IQ 7+ Micros, the voltage rise on the 240 VAC Q Cable is 0.77%  
For branch circuit #4 of 13 IQ 7+ Micros, the voltage rise on the 240 VAC Q Cable is 0.77%

**Voltage rise from the Junction Box-1 to the IQ Combiner Box 3**

$VR_{rise} = (\text{amps/inverter} \times \text{number of inverters}) \times (\text{resistance in } \Omega/\text{ft}) \times (2\text{-way wire length in ft.})$   
 $= (1.21 \text{ amp} \times 13) \times (0.00129 \text{ } \Omega/\text{ft}) \times (65 \text{ ft} \times 2)$   
 $= 15.73 \text{ amps} \times 0.00129 \text{ } \Omega/\text{ft} \times 130 \text{ ft}$   
 $= 2.64 \text{ volts}$   
 $\%VR_{rise} = 2.64 \text{ volts} \div 240 \text{ volts} = 1.10\%$

The voltage rise from the Junction Box-1 to the IQ Combiner Box 3 is 1.10%

**Voltage rise from the IQ Combiner Box 3 to AC Disconnect**

$VR_{rise} = (\text{amps/inverter} \times \text{number of inverters}) \times (\text{resistance in } \Omega/\text{ft.}) \times (2\text{-way wire length in ft.})$   
 $= (1.21 \text{ amp} \times 51) \times (0.000321 \text{ } \Omega/\text{ft}) \times (3 \text{ ft.} \times 2)$   
 $= 61.71 \text{ amps} \times 0.000321 \text{ } \Omega/\text{ft} \times 6 \text{ ft.}$   
 $= 0.12 \text{ volts}$   
 $\%VR_{rise} = 0.121 \text{ volts} \div 240 \text{ volts} = 0.05\%$

The voltage rise from the IQ Combiner Box 3 to the AC Disconnect is 0.05%

**Voltage rise from the AC Disconnect to the Main Service Panel**

$VR_{rise} = (\text{amps/inverter} \times \text{number of inverters}) \times (\text{resistance in } \Omega/\text{ft}) \times (2\text{-way wire length in ft.})$   
 $= (1.21 \text{ amp} \times 51) \times (0.000321 \text{ } \Omega/\text{ft}) \times (3 \text{ ft} \times 2)$   
 $= 61.71 \text{ amps} \times 0.000321 \text{ } \Omega/\text{ft} \times 6 \text{ ft}$   
 $= 0.12 \text{ volts}$   
 $\%VR_{rise} = 0.12 \text{ volts} \div 240 \text{ volts} = 0.05\%$

The voltage rise from the AC Disconnect to the Main Service Panel is 0.05%

**Total system voltage rise for all three wire sections**

$0.77\% + 1.10\% + 0.05\% + 0.05\% = 1.97\%$



REVISIONS	
DESCRIPTION	DATE

Signature with Seal

PROJECT NAME & ADDRESS

STIVEN PALSENCIO  
RESIDENCE  
338 NE 43RD CT  
OCALA, FL 34470  
PH #: (914) 354-4367

DATE: 11/20/2022

SHEET NAME  
SPECIFICATIONS  
CALC.

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
PV-6

Digitally signed by Robert Smythe  
DN:  
E=robert@rightangleeng.com,  
CN=Robert Smythe, OU=Senior  
Engineering, O=Right Angle  
Engineering, L=Orem, S=Utah,  
C=US  
Date: 2023.02.08 12:46:28-0700

**Robert Smythe**

PROFESSIONAL ENGINEER  
FLORIDA  
STATE OF  
No. 89045  
Robert Smythe

02/08/2023

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We will provide the insurance described in this policy in return for the premium and compliance with all applicable provisions of this policy		
59C WB5567	Policy Number	
Named Insured and Mailing Address Castro Plasencia, Steven Vladimir 336 NE 43rd CT Ocala, FL 34470-1438		
The Policy Period begins and ends at 12:01 a.m. Standard Time at the residence premises 09/08/2022 <b>Effective Date</b> 09/08/2023 <b>12 months - Policy Period</b> <b>Expiration of Policy Period</b>		<b>Automatic Renewal</b> - If the Policy Period is shown as 12 months, this policy will be renewed automatically subject to the premiums, rules and forms in effect each succeeding policy period. If this Policy is terminated, we will give you and the Mortgagee/Lienholder written notice in compliance with the policy provisions or as required by law.
<b>Limit of Liability - Section 1</b> \$326,100      Dwelling \$244,575      Personal Property <b>Limit of Liability - Section 2</b> \$1,000,000      Personal Liability \$1,000      Medical Payments to Others <b>Policy Type</b> Homeowners A1 - Replacement Cost - Similar Construction Increased Dwelling Up to \$65,220 - Option ID		<b>Deductibles - Section 1</b> 1% \$3,261 ALL LOSSES in case of loss under this policy, the deductible will be applied per occurrence and will be deducted from the amount of the loss. <b>Earthquake:</b> Hurricane 2% \$6,522 <b>Policy Premium</b> \$ 1671.74
<b>Location of Premises</b> 336 NE 43rd CT Ocala, FL 34470-1438		
<b>Forms, Options, &amp; Endorsements</b> HW-2159 Homeowners Policy Amendatory Endorsement Hurricane Deductible		Ordinance/Law 25% \$81,525 Fl Cat Gmd Cover Collapse Cov Special Limit For Water Damage
<b>Mortgagee &amp; Addl. Interests</b> Mortgagee LAKEVIEW LOAN SERVICING LLC ISAOA/ATIMA c/o LoanCare PO Box 202049 Florence, SC 29502-2049 Loan Number: 0060374378		<b>Agent Name &amp; Address</b> Chi Nguyen Chi Nguyen Ins Agency Inc 1107 E Slvr Spg Blvd Ste 10 Ocala, FL 34470-8701 (352) 629-8121

Prepared: 03-02-2023  
B59-916 FL-1

Agent's Code: 7148  
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10000017 0005 1271304 219 04-09-2022



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**Signer Events**

William E. Sexton

wsexton@ocalafl.org

City Attorney

City of Ocala

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Janice Mitchell

jmittell@Ocalafl.org

CFO

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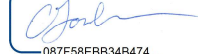
Chris Gowder

chris.gowder@fmpa.com

VP of IT/OT and System Ops

Security Level: Email, Account Authentication  
(None)

DocuSigned by:



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Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	5/1/2023 12:11:46 PM
Certified Delivered	Security Checked	5/15/2023 3:26:07 PM
Signing Complete	Security Checked	5/15/2023 3:26:25 PM
Completed	Security Checked	5/15/2023 3:26:25 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		



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At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

### **Withdrawing your consent**

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

### **Consequences of changing your mind**

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

### **All notices and disclosures will be sent to you electronically**

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

### **How to contact City of Ocala - Procurement & Contracting:**

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: [contracts@ocalafl.org](mailto:contracts@ocalafl.org)

### **To advise City of Ocala - Procurement & Contracting of your new email address**

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at [contracts@ocalafl.org](mailto:contracts@ocalafl.org) and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

### **To request paper copies from City of Ocala - Procurement & Contracting**

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to [contracts@ocalafl.org](mailto:contracts@ocalafl.org) and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

### **To withdraw your consent with City of Ocala - Procurement & Contracting**

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to [contracts@ocalafl.org](mailto:contracts@ocalafl.org) and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

### **Required hardware and software**

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

### **Acknowledging your access and consent to receive and sign documents electronically**

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

By selecting the check-box next to ‘I agree to use electronic records and signatures’, you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify City of Ocala - Procurement & Contracting as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by City of Ocala - Procurement & Contracting during the course of your relationship with City of Ocala - Procurement & Contracting.