

APPLICATION FOR BUILDING PERMIT

The Village of Irvington | 85 Main St | Irvington NY 10533

Application Number:	1189	Date:	12/14/2021
Job Location:	198 RIVERVIEW RD	Parcel ID:	2.60-25-13
Property Owner:	GUTMAN, STEVEN & GUTMAN, CAROL K	Property Class:	1 FAMILY RES
Occupancy:	One/ Two Family	Zoning:	
Common Name:			

Applicant	Contractor
Christopher Hale, President	Christopher Hale, President
SunBlue Energy	SunBlue Energy
147 Valley St Sleepy Hollow NY 10591	147 Valley St Sleepy Hollow NY 10591
9142223510	9142223510

Description of Work

Type of Work:	Solar Panels	Applicant is:	Contractor
Work Requested by:	The Owner	In association with:	
Cost of Work (Est.):	19000.00	Property Class:	1 FAMILY RES

Description of Work

Installation of 8.0kW PV system consisting of 20 LG 400w modules and 20 Enphase Energy microinverters on roof of residence.

Please Note: Completing the application does not constitute a permit to commence construction. To obtain your permit follow the instructions on the instruction page provided on page 3.

Job Location: 198 RIVERVIEW RD

Parcel Id: 2.60-25-13

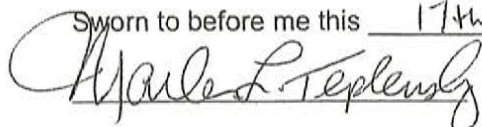
AFFIDAVIT OF APPLICANT

I **Christopher Hale, President** being duly sworn, depose and says: That s/he does business as: **SunBlue Energy** with offices at: **147 Valley St Sleepy Hollow NY 10591** and that s/he is:

- ☐ The owner of the property described herein.
- ☐ The _____ of the New York Corporation _____ with offices at: _____ duly authorized by resolution of the Board of Directors, and that said corporation is duly authorized by the owner to make this application.
- ☐ A general partner of _____ with offices _____ and that said Partnership is duly authorized by the Owner to make this application.
- ☐ The Lessee of the premises, duly authorized by the owner to make this application.
- ☐ The Architect of Engineer duly authorized by the owner to make this application.
- ☒ The contractor authorized by the owner to make this application.

That the information contained in this application and on the accompanying drawings is true to the best of his knowledge and belief. The undersigned hereby agrees to comply with all the requirements of the New York State Uniform Fire Prevention and Building Code, the Village of Irvington Building Code, Zoning Ordinance and all other laws pertaining to same, in the construction applied for, whether or not shown on plans or specify in this application.

Sworn to before me this 17th day of December of 2021



Notary Public / Commission of Deeds

MARLA L. TEPLENSKY
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01TE6364189
Qualified in Westchester County
Commission Expires September 5, 2025



Applicant's Signature

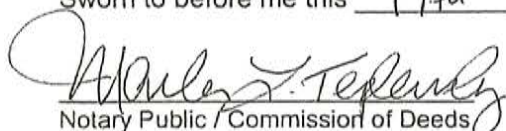
OWNER'S AUTHORIZATION

I **GUTMAN, STEVEN & GUTMAN, CAROL K** as the owner of the subject premises and have authorized the contractor named above to perform the work under the subject application.

Owner phone number 914-591-4210 Owner email address sgutman12@gmail.com

- ☒ **Carol Gutman** I hereby acknowledge that it is my responsibility as the **property owner** to ensure that if the permit (if issued) receives a Final Certificate of Approval from the Building Department and further that if a Final Certificate of Approval is not obtained upon completion of the construction, a property violation may be placed on the property for which this permit is being requested.

Sworn to before me this 17th day of December of 2021



Notary Public / Commission of Deeds

MARLA L. TEPLENSKY
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Applicant's Signature

PROXY STATEMENT

Date: _____

To:

Town: Village of Irvington

Address: 85 Main St, Irvington, NY 10533

Attn: Building Department
Ref: Installation of a Solar PV System

Customer Address: 198 Riverview Road

Subject: Authorization for Installation of a Solar Electric System

To Whom It May Concern:

I, Steven Gutman (owner), residing at 198 Riverview Ave
authorize SunBlue Energy (installer) to act on my behalf in the installation of a 8.0 kW solar
electric system at the above mentioned address.

If you have any questions, I can be reached at 914-591-4210 (phone #).

Steven Gutman
Customer Signature 12/17/2021
Date

Sworn to me this 17th day of December, 2021
Commissioner of Deeds or Notary Public Westchester County

Marla L. Teplensky
Notary Signature

MARLA L. TEPLENSKY
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01TE6364189
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SunBlue
ENERGY

VILLAGE OF IRVINGTON
BUILDING DEPARTMENT
85 MAIN STREET
IRVINGTON, NEW YORK 10533
TEL: (914) 591-8335 • FAX: (914) 591-5870
Web Site: www.Irvingtonny.gov



LICENSED PROFESSIONAL AFFIDAVIT for RESIDENTIAL SOLAR SYSTEMS

TO BE SUBMITTED AS PART OF THE PERMIT APPLICATION

AFFIDAVIT OF ARCHITECT OR ENGINEER

State of New York }
County of Westchester } ss.:

I the undersigned, under penalty of perjury, do hereby affirm:

1. I am an the (architect)(engineer) duly licensed in the State of New York
2. I am the NYS licensed design professional named in the Application for which a Building Permit for a residential solar system located at 198 Riverview Road, Irvington, New York 10533.
3. I have inspected the existing building and structure and find that the existing structure with the proposed solar panel installation and connections to the existing roof meet the minimum criteria set forth in;
Applicable Codes: 2015 Residential Code of New York State 2020
Design Roof Load: 30 psf live load, 15 psf dead load, 45 psf total load
Design Wind Load: 120 mph, 35psf
OR have proposed additional measures to insure compliance with above.
4. I have reviewed the following submitted drawings and/or manufacture specifications as part of the submission
List applicable plans with revision dates: _____ (rev date)
_____ (rev date)
_____ (rev date)
_____ (rev date)
_____ (rev date)
_____ (rev date)
5. The plans, drawings and specifications which the Building Permit is requested and listed above, as submitted (a)-were prepared by me or under my supervision, and (b)-to the best of my knowledge comply with the requirements of the Residential Building Code of New York State as adopted by the Village of Irvington, applicable design loads and all other applicable laws, rules and regulations governing building construction.

[Signature]
Signature
[Signature]
(Architect) (Engineer)



Sworn to before me this
14 day of December 20 21

[Signature]
Notary Public

MARLA L. TEPLENSKY
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01TE6364189
Qualified in Westchester County
Commission Expires September 5, 2025



PHOTOVOLTAIC (PV SOLAR) RESIDENTIAL SYSTEMS
PERMIT APPLICATION CHECK LIST

Revised June 7, 2017

It is suggested that all applicants applying for a permit read and understand the manufacture installation instructions prior to applying for a building permit and attached ARB guide lines and Village code for Solar Energy Equipment.

REQUIREMENTS TO APPLY FOR A PHOTOVOLTAIC (PV SOLAR) SYSTEM PERMIT

- ☒ 1) Apply on line at www.irvingtonny.gov for a mechanical permit, under building permits and along with your application, submit to the building department the following;
- ☒ 2) Owners phone number and email address entered in the online permit application
- ☒ 3) Evidence of Workers Compensation Insurance (on a C-105 or equivalent)
- ☒ 4) Evidence of Liability Insurance naming the Village of Irvington additional insured
- ☒ 5) A copy of the contractors Westchester County Department of Consumer Protection License
- ☒ 6) Pursuant to 9-12-A. provide evidence of notice to adjacent properties owners not less than 10 days prior to the meeting (see attached code section for more details)
- ☒ 7) Submit permit fee: *(all fees must be paid at time of submission)*
 - ☒ \$85 application fee
 - ☐ \$200 for systems up to 5 kilowatts
 - ☒ \$450 for systems above 5 kilowatts and less than 10 kilowatts
 - ☐ \$700 for systems above 10 kilowatts and less than 20 kilowatts
 - ☐ \$700 plus \$250 per additional 10 kilowatts above 20 for systems above 20 kilowatts
 - ☒ \$75 Certificate of Completion inspection and fee
- ☒ 8) An affidavit from a NYS licensed professional detailing and certifying that the existing structure meets or exceeds the minimum load requirement's as per TABLE R301.2(1) for wind and load before and after installation of the proposed equipment or the proposed upgrades to the existing structure to accomplish the aforesaid.
- ☒ 9) Drawings (signed and sealed by a NYS licensed professional) of the roof plan showing the following criteria;
 - a. ☒ Showing all proposed PV panels on all proposed roof surfaces.
 - b. ☒ Showing all equipment on all elevations including
 - c. ☒ Show / list all roof connectors and flashing details
 - d. ☒ Show compliance with section R902.4 (fire classification in accordance with UL1703 and 3' from any lot line)
 - e. ☒ Show compliance with sections R324.3.1 through R324.7.2.5 and NFPA 70 (installation)
 - f. ☒ Show compliance with section R324.7 (access and pathways) (see attachment)
 - g. ☒ Show compliance with section R324.7.2.1-6. (roof access points) (see attachment)
 - h. ☒ Show compliance with section R324.7.3 (ground access areas) (see attachment)
 - i. ☒ Show compliance with section R324.7.4 (single ridge roofs *when applicable*) (see attachment)
 - j. ☒ Show compliance with section R324.7.5 (hip roofs *when applicable*) (see attachment)
 - k. ☒ Show compliance with section R324.7.6 (roof with valleys *when applicable*) (see attachment)
 - l. ☒ Show compliance with section R324.7.7 (allowance for smoke ventilation operations) (see attachment)
 - m. ☒ Show a Fire Department AC disconnect, located outside by the Utility meter on all systems.
- ☒ 10) Provide a drawing or manufactures cut sheets of array mounting hardware and interconnection diagram and specifications.
- ☒ 11) Provide a drawing or manufactures cut sheets of the unit mount and roof penetration's flashing system.
- ☒ 12) 3 wire diagram showing all proposed equipment as governed by the National Electrical Code (NEC)
- ☒ 13) Provide a diagram showing all proposed labels and labeling locations including; Solar AC Disconnect, Inverter Output, Connection Warning, Dual Power Source Warning, Solar AC Combiner Panel, Solar PV Circuits Only, Solar Production meter. (see attachment)
- ☐ 14) Provide snow guards on panels were snow has the potential of sliding of the panel into a neighbor's property
- ☒ 15) Pictures of dwelling showing photo shopped arrays on the structure.
- ☒ 16) Provide a drawing or photo shop picture of all proposed equipment on all effected elevations (including FD emergency disconnect switch)
- ☒ 17) A Fire Department AC disconnect, located outside by the Utility meter on all systems.

VILLAGE OF IRVINGTON

BUILDING DEPARTMENT

85 MAIN STREET

IRVINGTON, NEW YORK 10533

TEL: (914) 591-8335 • FAX: (914) 591-5870



- ☒ 18) Separate Electrical Permit application by a Westchester County Department of Licensing, licensed Electrician with required insurances and the appropriate fee (must be filed by the licensed contractor, see village application for further details).
- ☒ 19) Submit signed check list with submission and appropriate building permit fee.
- ☒ 20) Applicant has provided ~~seven~~ three copies of the entire submittal for Architectural Review Board approval.
three (as per bldg dept phone call)

Applicant Affidavit:

Applicants Name: Florenton River LLC DBA SunBlue Energy
Applicants Address: 147 Valley St
Sleepy Hollow NY 10591
Applicants Phone # 914 222-3510 marla@sunblueenergy.com
Applicants Email Marla@Sunblueenergy.com

Applicant Name: Christopher Hale President Signature: Christopher D. Hale Date: 12/21/2021 By signing this affidavit I attest to have read the attached Solar Energy Equipment Code and the Solar Equipment Guidelines manufactures installation instructions and that all information asked for above has been submitted and that the submitted information is correct.

General Contractor Affidavit:

Contractors Name: Florenton River LLC DBA SunBlue Energy
Contractors Address: 147 Valley St
Sleepy Hollow NY 10591
Contractors Phone # 914 222-3510
Contractors Email Marla@Sunblueenergy.com

General Contractor Name: Christopher Hale President Signature: Christopher D. Hale Date: 12/21/2021 By signing this affidavit I attest to being the general contractor of record for this application and will be responsible for oversight and direct supervision of same, and will maintain a valid Westchester County Department of Consumer Protection License, a valid for Workers Compensation Policy and a General Liability Policy listing the Village of Irvington as Certificate Holder and additional insured with no conditions until such time I apply for and receive a Certificate of Completion.

Electrical Contractor Affidavit:

Electrical Contractors Name: Candela Systems Corp
Electrical Contractors Address: 168 Old Saw Mill River Rd
Hawthorne NY 10532
Electrical Contractors Phone # 914 248-8900
Electrical Contractors Email eperez@candela-systems.com

Electrical Contractor Name: James Bernardo Signature: James Bernardo Date: 12/21/21 By signing this affidavit I attest to being the electrical contractor of record for this application and will be responsible for oversight and direct supervision of same, and will maintain a valid Westchester County Electrical License, a valid for Workers Compensation Policy and a General Liability Policy listing the Village of Irvington as Certificate Holder and additional insured with no conditions until such time I apply for and receive a Certificate of Completion.

Note: Applications for all exterior elevation changes including photovoltaic solar systems are required to apply for, make a presentation in front of, and receive approval from the Village of Irvington Architectural Review Board (ARB) prior to issuance of a building permit. The ARB meetings are the second and fourth Mondays of the month, with a deadline for submissions one week prior to the meetings (see village web site for confirmation of meetings). Seven sets of copies of the entire application are required to be submitted at the deadline with appropriate fee at the time of submission.

Note: The following list above is given to assist in the application process. It is not intended to be a replacement for the Building or Zoning Code, County or State Regulations, or Consolidate Edison Requirements. Unique and Special projects may require additional information.

**Hours of Construction: Monday-Friday 7AM-7PM; Saturday 9AM-5PM; Sunday and holiday's construction is prohibited
Only completed applications will be accepted with attached insurance certificates and County license

NOTICE OF APPLICATION AND HEARING

Board of Architectural Review
Clerk's Office
Village of Irvington
Westchester County, New York

CERTIFIED MAIL

Date of Mailing January 11, 2022

NOTICE:

Pursuant to 9-12 of the code of the Village of Irvington notice to adjacent neighbors (as defined below) is required 10 days prior a meeting where an application for Solar Panels to the Village of Irvington Architectural Board is asking to be heard.

Date of Meeting: January 24, 2022
Time of Meeting: Meeting starts at 8pm
Location of Meeting: Trustees Meeting Room
85 Main St. Irvington, NY 10533

Applicant Name	SunBlue Energy	Owners Name	Steven & Carol Gutman
Applicant Mailing Address	147 Valley St Sleepy Hollow, NY	Owner Mailing Address	198 Riverview Rd Irvington, NY
Applicant Phone Number	914-222-3510	Owners Phone Number	914-591-4210
Applicant Email Address	marla@sunblueenergy.com	Owners Email Address	sgutman12@gmail.com

Address of Proposed Solar Panels:

Street Address 198 Riverview Rd
Irvington, NY 10533

To Adjacent Neighbors of: Regal, Andrew (200 Riverview Rd)
Toeman, Ariella (196 Riverview Rd)

Please take notice that the applicant named above is requesting the Board of Architectural Review of the Village of Irvington to grant a permit for the installation of **Solar Energy Equipment** to the address listed above.

Plans of the proposed work are available in the office of the Irvington Building Department for public inspection during regular business hours 5 days prior to the scheduled meeting.

9-12. Solar Energy Equipment.

For any application for a building permit for solar energy equipment, written notice of the application and the date, time and place of the meeting at which it will be considered must be given to all adjacent property owners not less than 10 days prior to the meeting date. Notice shall be by a method of mail or a delivery service company providing proof of mailing or delivery or by personal service of such notice on the property owners, evidenced by their signature as acknowledgment of receipt of such notice on a form supplied or similar to one supplied by the Village Clerk. Proof of service of the notice shall be filed prior to or at the meeting at which the application is considered. ("Adjacent property" refers to any neighbor that shares a property line with the subject property as well as neighbors across any street from the subject property.)*

Kenneth Hesselbacher, P.E.
26 Rocky Hill Rd
New Fairfield, C.T. 06812

December 21, 2021

Christopher Hale
SunBlue Energy
147 Valley St
Sleepy Hollow NY 10591

Subject - Structural Analysis
Gutman - 189 Riverview Rd
Irvington, NY 10533

Dear Mr. Hale,

As requested, an analysis of the existing residence in terms of the proposed solar array you plan to install on the existing roof sections has been performed. The proposed array of 20 panels on the roof will add an additional dead load of approximately 1000lbs to the roof (2.5 lb / sq ft). The south roof is framed with 2" x 8" Rafters - 16" OC spanning 14'.

The capacity of sections of the roof structural framing to support the additional loads has been evaluated in accordance with the 2020 NYS Residential Code and referenced standards. The existing roof with the addition of Solar Panels has the capacity to handle the addition of the Solar System with regard to New York State Building Code section 802.5 - Rafter Span / 301.2 - Roof Loads - 30lb Snow.

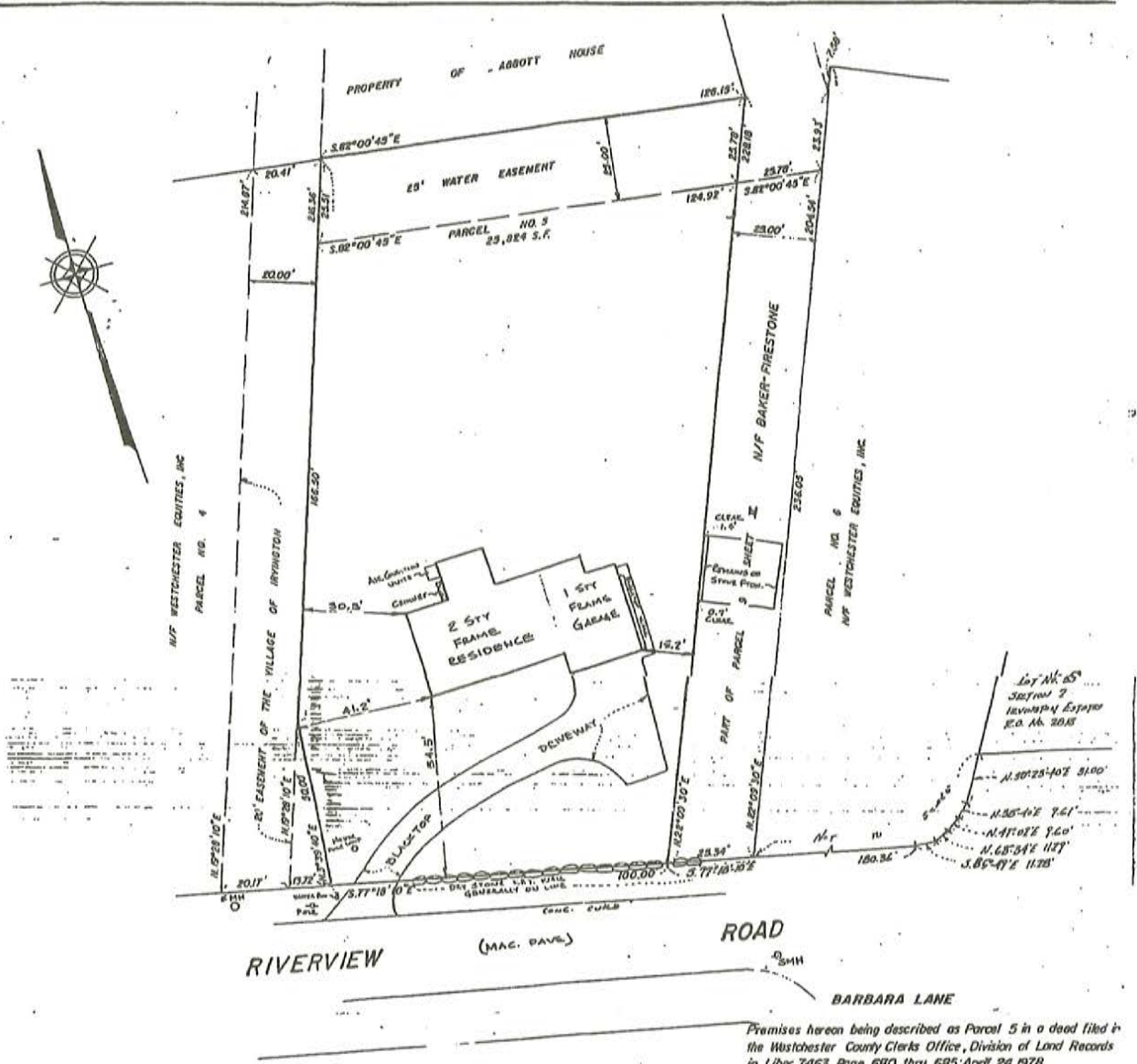
The existing roof with the addition of Solar Panels attached with Mounting Hardware (Avg - 2 connections per panel) has the capacity to handle the addition of the Solar System with regard to New York State Building Code section Table R301.2 - Wind Speed Design of 120MPH.

Sincerely,



Kenneth Hesselbacher, P.E.





Unauthorized Alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of sec. 7103 Subdivision 2 of the N.Y. State Education Law. Copies from the original of this survey map not marked with an original of the land surveyor's inked seal or his embossed seal shall not be considered to be a valid true copy. Guarantees or certifications indicated hereon signify that this survey was prepared in accordance with the existing code of Practice for land surveyors adopted by the N.Y. State Assoc. of Prof. Land Surveyors. Said guarantees or certifications shall run only to the person for whom the survey is prepared, and on his behalf to the Title Co. governmental agency and lending institution hereon and to the assignees of the lending institution. Guarantees or certifications are not transferable to additional institutions or subsequent owners.

Certified correct to: C. L. Bink, N.Y., and to Chicago Title Insurance Company in accordance with minimum standards for Title Surveys of N.Y. Assoc. of Prof. Land Surveyors.

Prepared June, 1978
PETER N. SAUTER
163 Canterbury Rd.

"AS-BUILT" SURVEY 11-24-78 PMS
Foundation Location Survey - 9-2-78 PMS
This is to certify that the survey on which this map is based was completed June 22, 1978 and this map was completed June 27, 1978
By Peter N. Sauter

SURVEY OF PROPERTY
PREPARED FOR
WILLIAM J. SAICH AND PATRICIA L. SAICH
SITUATED IN THE
VILLAGE OF IRVINGTON
WESTCHESTER COUNTY, N.Y.
SCALE: 1"=20'



FLORRIV-01

CDOLCE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/29/2021

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

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

PRODUCER Levitt-Fuirst Associates, LTD 520 White Plains Road 2nd Floor Tarrytown, NY 10591	CONTACT NAME: Kevin Kelley PHONE (A/C, No, Ext): (914) 457-4200 FAX (A/C, No): (914) 457-4200 E-MAIL ADDRESS: info@levittfuirst.com
INSURED FLORENTON RIVER LLC dba Sun Blue Energy 147 Valley Street Sleepy Hollow, NY 10591	INSURER(S) AFFORDING COVERAGE
	INSURER A : Southwest Marine & General Insurance Company
	INSURER B : New York State Insurance Fund
	INSURER C :
	INSURER D :
	INSURER E :
NAIC # 12294 36102	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			GL202100013184	7/29/2021	7/29/2022	EACH OCCURRENCE \$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
							MED EXP (Any one person) \$ 5,000
							PERSONAL & ADV INJURY \$ 1,000,000
							GENERAL AGGREGATE \$ 2,000,000
							PRODUCTS - COMP/OP AGG \$ 2,000,000
							AGGREGATE CAPPE \$ 5,000,000
							COMBINED SINGLE LIMIT (Ea accident) \$
							BODILY INJURY (Per person) \$
							BODILY INJURY (Per accident) \$
PROPERTY DAMAGE (Per accident) \$							
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY						
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$
							AGGREGATE \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			20814927	6/29/2020	6/29/2022	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	NYS Disability			DBL 538714-2	8/14/2019	8/14/2022	Limit - Statutory

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Village of Irvington - is included as Additional Insured for covered operations of the named insured,

CERTIFICATE HOLDER**CANCELLATION**

Village of Irvington 85 Main St. Irvington, NY 10533	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
--	---



CERTIFICATE OF INSURANCE COVERAGE

DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

PART 1. To be completed by Disability and Paid Family Leave Benefits Carrier or Licensed Insurance Agent of that Carrier

1a. Legal Name & Address of Insured (use street address only)

FLORENTON RIVER LLC
DBA SUN BLUE ENERGY
147 VALLEY ST
SLEEPY HOLLOW, NY 10591

Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., a Wrap-Up Policy)

1b. Business Telephone Number of Insured
(917) 386-5050

1c. Federal Employer Identification Number of Insured or Social Security Number

270309206

2. Name and Address of Entity Requesting Proof of Coverage
(Entity Being Listed as the Certificate Holder)

VILLAGE OF IRVINGTON
85 MAIN STREET
IRVINGTON, NY 10533

3a. Name of Insurance Carrier

New York State Insurance Fund (NYSIF)

3b. Policy Number of Entity Listed in Box "1a"

DBL 5837 14 - 2

3c. Policy effective period

08/14/2021 to 08/14/2022

4. Policy provides the following benefits:

- ☒ A. Both disability and paid family leave benefits
☐ B. Disability benefits only
☐ C. Paid family leave benefits only

5. Policy covers:

- ☒ A. All of the employer's employees eligible under the NYS Disability and Paid Family Leave Benefits Law
☐ B. Only the following class or classes of employer's employees:

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has NYS Disability and/or Paid Family Leave Benefits insurance coverage as described above.

Date Signed 12/14/2021

By

Kristin Markwica

(Signature of Insurance carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)

Telephone Number (866) 697-4332

Name and Title Kristin Markwica, Head of Disability Insurance Unit

IMPORTANT: If Box 4A and 5A are checked, and this form is signed by the insurance carrier's authorized representative or NYS Licensed Insurance Agent of that carrier, this certificate is COMPLETE. Mail it directly to the certificate holder.

If Box 4B, 4C or 5B is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the NYS Disability and Paid Family Leave Benefits Law. It must be mailed for completion to the Workers' Compensation Board, DB Plans Acceptance Unit, PO Box 5200, Binghamton, NY 13902-5200

PART 2. To be completed by the NYS Workers' Compensation Board (Only if Box 4C or 5B of Part 1 has been checked)

State of New York Workers' Compensation Board

According to information maintained by the NYS Workers' Compensation Board, the above-named employer has complied with the NYS Disability and Paid Family Leave Benefits Law with respect to all of his/her employees.

Date Signed _____ By _____

(Signature of Authorized NYS Workers' Compensation Board Employee)

Telephone Number _____ Name and Title _____

Please Note: Only insurance carriers licensed to write NYS disability and paid family leave benefits insurance policies and NYS licensed insurance agents of those insurance carriers are authorized to issue Form DB-120.1. Insurance brokers are NOT authorized to issue this form.

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

***** 270309206
LEVITT-FUIRST ASSOCIATES LTD
520 WHITE PLAINS ROAD, 2ND FL
TARRYTOWN NY 10591



SCAN TO VALIDATE
AND SUBSCRIBE

POLICYHOLDER FLORENTON RIVER LLC D/B/A SUN BLUE ENERGY 147 VALLEY STREET SLEEPY HOLLOW NY 10591		CERTIFICATE HOLDER VILLAGE OF IRVINGTON 85 MAIN ST. IRVINGTON NY 10533	
POLICY NUMBER G2081 492-7	CERTIFICATE NUMBER 244611	POLICY PERIOD 06/29/2021 TO 06/29/2022	DATE 12/14/2021

THIS IS TO CERTIFY THAT THE POLICYHOLDER NAMED ABOVE IS INSURED WITH THE NEW YORK STATE INSURANCE FUND UNDER POLICY NO. 2081 492-7, COVERING THE ENTIRE OBLIGATION OF THIS POLICYHOLDER FOR WORKERS' COMPENSATION UNDER THE NEW YORK WORKERS' COMPENSATION LAW WITH RESPECT TO ALL OPERATIONS IN THE STATE OF NEW YORK, EXCEPT AS INDICATED BELOW.

IF YOU WISH TO RECEIVE NOTIFICATIONS REGARDING SAID POLICY, INCLUDING ANY NOTIFICATION OF CANCELLATIONS, OR TO VALIDATE THIS CERTIFICATE, VISIT OUR WEBSITE AT [HTTPS://WWW.NYSIF.COM/CERT/CERTVAL.ASP](https://www.nysif.com/cert/certval.asp). THE NEW YORK STATE INSURANCE FUND IS NOT LIABLE IN THE EVENT OF FAILURE TO GIVE SUCH NOTIFICATIONS.

THIS POLICY DOES NOT COVER THE SOLE PROPRIETOR, PARTNERS AND/OR MEMBERS OF A LIMITED LIABILITY COMPANY.

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NEW YORK STATE INSURANCE FUND

DIRECTOR, INSURANCE FUND UNDERWRITING

VALIDATION NUMBER: 833740640

George Latimer
Westchester County Executive

Westchester
gov.com

James Maisano
Director, Consumer Protection

Department of Consumer Protection Home Improvement License

FLORENTON RIVER LLC

SUN BLUE ENERGY

147 VALLEY STREET

SLEEPY HOLLOW, NY-10591

This license is issued in accordance with Article XVI of the Westchester County Consumer Protection Code and is valid only upon presence of the official department seal. Proof of citizenship or immigration status is not required for issuance of this license.
NOT FOR FEDERAL PURPOSES

License Number

WC-22126-H09



Date of Expiration

08/21/2023

Solar Building Permit Application for Gutman Residence, 198 Riverview Rd

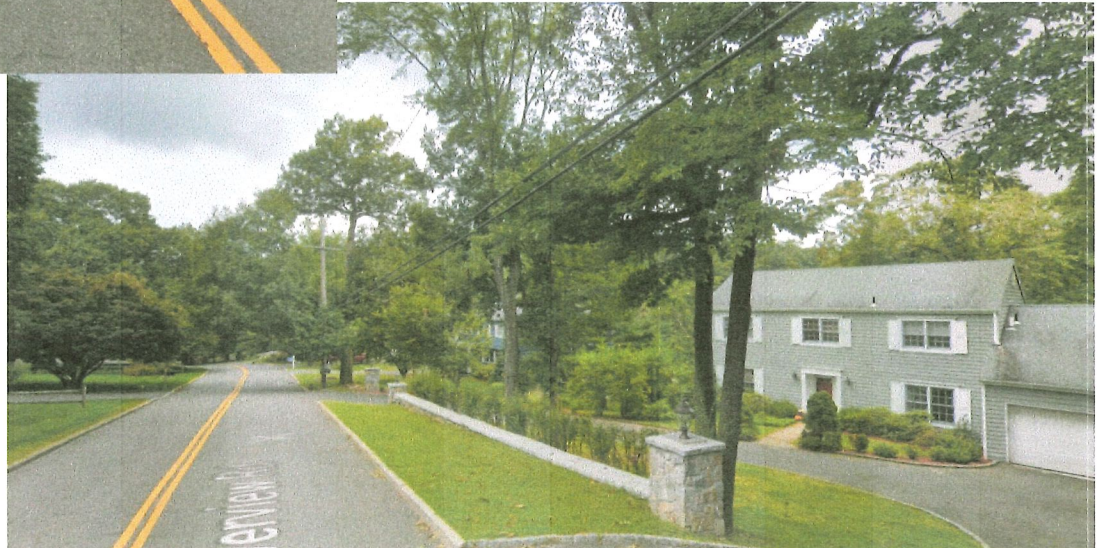
Gutman Residence -
198 Riverview Rd,
Irvington, NY 10533



Solar Building Permit Application for Gutman Residence, 198 Riverview Rd



View looking to the right of Gutman residence



View looking to the left from Gutman residence

Solar Building Permit Application for Gutman Residence, 198 Riverview Rd



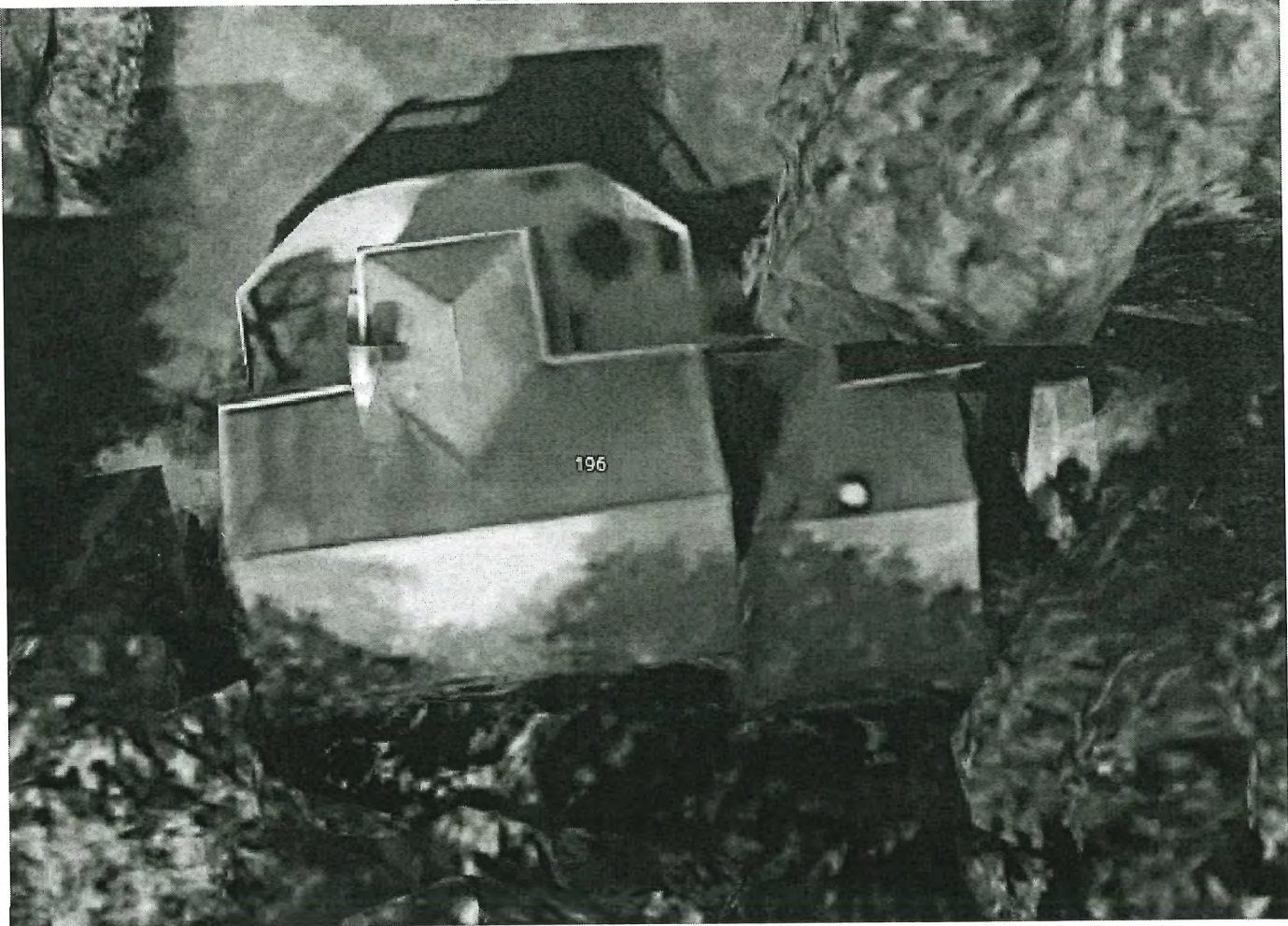
View looking across street from Gutman residence

Solar Building Permit Application for Gutman Residence, 198 Riverview Rd



Photos of Gutman residence with rendering of panels—panels not drawn to scale

AERIAL VIEW



STREET VIEW



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AND CONSULTING COMPANY, LLC

SITE INFORMATION:
Gutman, Steven and Carol
198 Riverview Rd,
Irvington, NY 10533
DC SYSTEM SIZE:
8.0 kW


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DBM SOLAR DESIGN AND
CONSULTING COMPANY, LLC
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E: SUPPORT@DBMSOLAR.COM
WWW.DBMSOLAR.COM

DESIGNED BY:
J. Fairchild

DATE:
12/21/2021

PROJECT #
2021-SUN BLUE

SHEET NAME:
COVER PAGE

PAGE #
PV01

REVISION:
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SHEET INDEX

PAGE NUMBER	PAGE TITLE
PV01	TITLE PAGE
PV02	SITE PLAN
PV03/PV03-1	ONE LINE / 3-LINE DIAGRAM
PV04	ARRAY & STRINGING DETAIL
PV05	LABEL PLAN
PV06	ATTACHMENT DETAIL
SPECS	SPECSHEETS AND DOCUMENTS

APPLICABLE CODES

2017 National Electric Code (NEC)
2020 Residential Code of New York State
2020 Building Code of New York State
2020 Plumbing Code of New York State
2020 Mechanical Code of New York State
2020 Fuel Gas Code of New York State
2020 Fire Code of New York State
2020 Property Maintenance Code of New York State
2020 Existing Building Code of New York State
2020 NYS Uniform Code Supplement
R324.3 Compliance

OCCUPANCY & CONSTRUCTION TYPE

OCCUPANCY - R3
CONSTRUCTION - V-B



Set Reviewed By:
PV-041115-011207

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES.
- DRAWINGS HAVE BEEN DETAILED ACCORDING TO UL LISTING REQUIREMENTS.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY DBM OF ANY INCONSISTENCIES.
- ALL EQUIPMENT SHALL BE INSTALLED AS SHOWN.
- WARNINGS PER NEC 690.
- WIRING SHALL NOT BE INSTALLED WITHIN 10 INCHES OF ROOF DECKING EXCEPT WHERE DIRECTLY BELOW PV EQUIPMENT

SCOPE OF WORK

DC System Size: 20kW
Roof Type: Asphalt/Composite Shingle
Roof Pitch: 5/12
Anchored on 48" centers using UL listed racking system
UV Resistant cable ties (not zip ties) used for permanent wire management in accordance with NEC 110.2, 110.3(A-B), 300.4
Junction boxes mounted flush with racking.

DESIGN CRITERIA

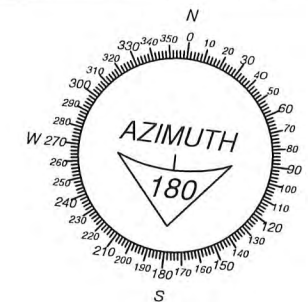
WIND SPEED: 130 MPH
EXPOSURE CATEGORY: C

SYSTEM SUMMARY

MODULE: (20) LG LG400Q1C-A6 400W PV Module
INVERTER: 20 Enphase IQ7PLUS-72-2-US 240V Micro Inverters

RACKING: IRONRIDGE Roof Mounted PV System





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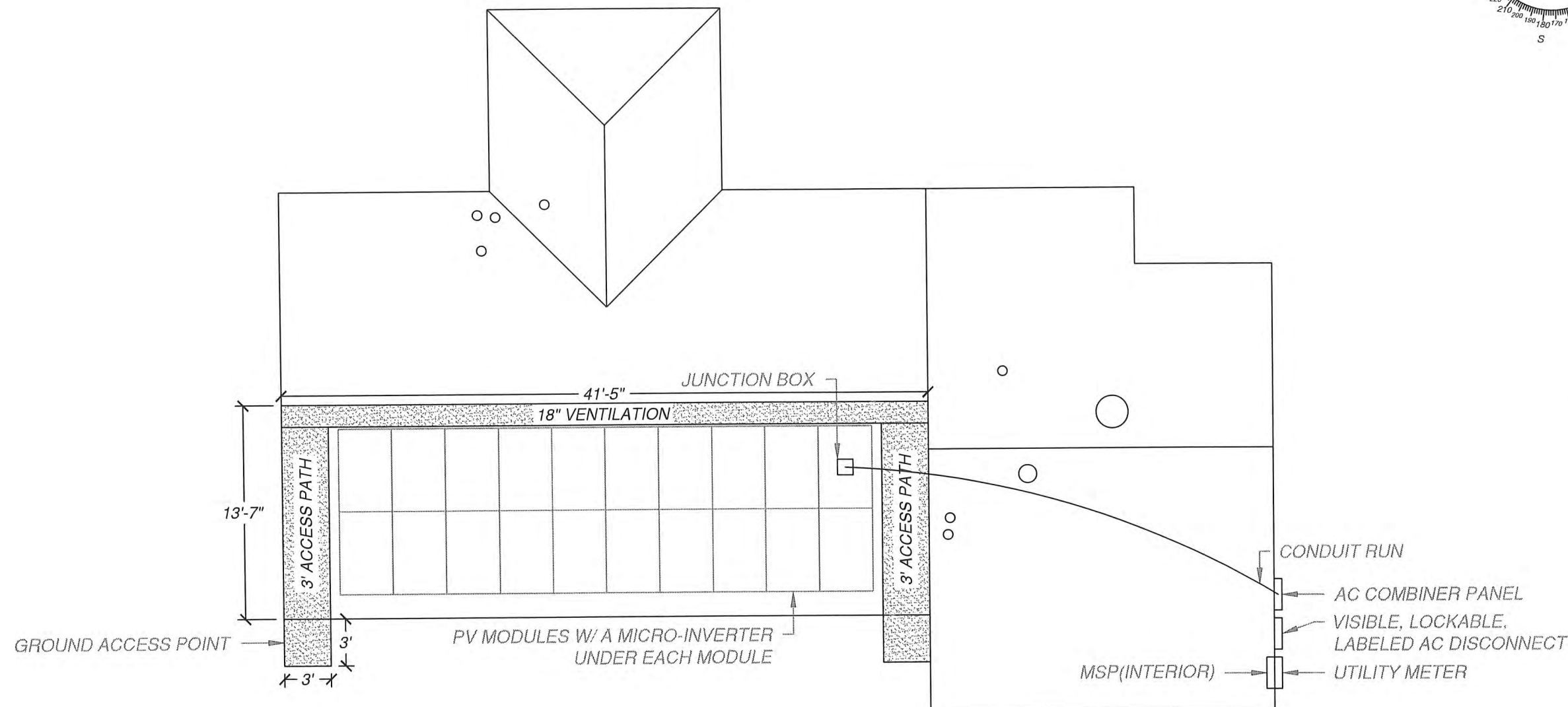
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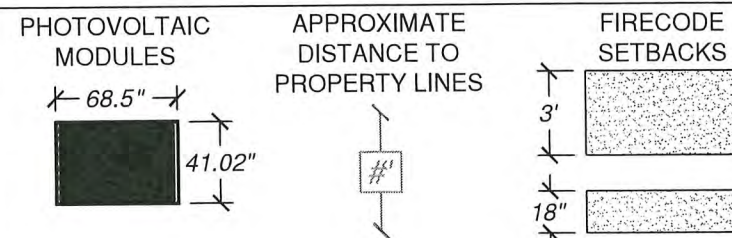
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PROJECT #
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SHEET NAME:
PROPERTY DETAIL
PAGE #
PV02
REVISION:
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MODULE: (20) LG LG400Q1C-A6 370W PV Module
INVERTER: 20 Enphase IQ7PLUS-72-2-US 240V Micro Inverters

- AC DISCONNECT LOCATED 10' OR LESS FROM UTILITY METER
- CONDUIT RUNS AND JUNCTION BOX LOCATIONS TO BE DETERMINED IN THE FIELD.
- EQUIPMENT LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD
- WIRES LOCATED IN READILY ACCESSIBLE LOCATIONS SHALL BE GUARDED PER NEC 690.31(A)

SITE INDEX



ARRAY DETAIL

	A	B	C	D
AZIMUTH	172°			
TILT ANGLE	23°			
MODULE COUNT	20			
ROOF SUPPORTS	Rafter = 2X8 @ 16" O.C.			

PV MODULE SPECIFICATIONS	
MANUFACTURER	LG
MODEL	LG400Q1C-A6
MAX POWER-POINT CURRENT (Imp)	10.76A
MAX POWER-POINT VOLTAGE (Vmp)	37.2V
OPEN CIRCUIT VOLTAGE (Voc)	43.8V
SHORT CIRCUIT CURRENT (Isc)	11.32 A
MAX SERIES FUSE (OCPD)	20 A
MAX POWER (Pmax)	400 W
MAX VOLTAGE (Vdc)	1000 V

MODULE: (20) LG LG400Q1C-A6 370W PV Module

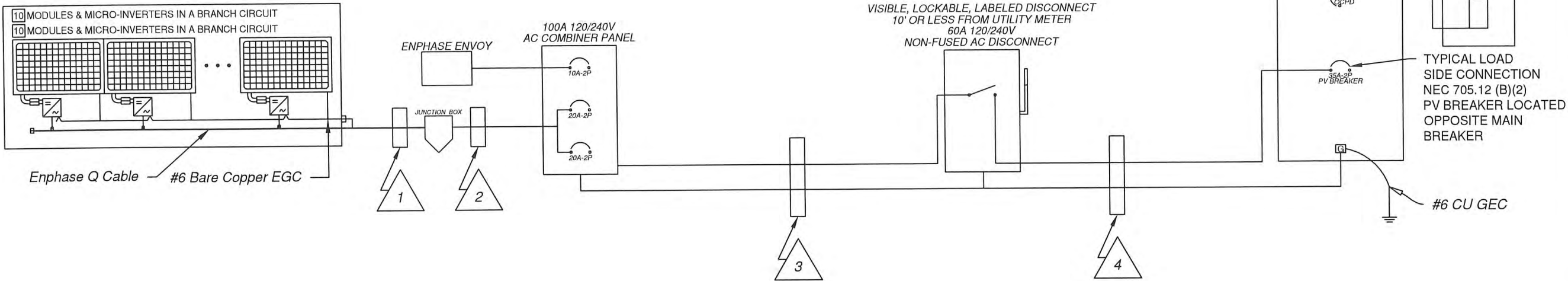
INVERTER: 20 Enphase IQ7PLUS-72-2-US 240V Micro Inverters

INVERTER SPECIFICATIONS	
MANUFACTURER	Enphase
MODEL	ENPHASE IQ7PLUS-72-2-US
GROUND	UNGROUND
AC OUTPUT VOLTAGE	240V
MAX OUTPUT POWER	295 VA
CEC RATED OUTPUT POWER	290 VA
RATED OUTPUT CURRENT	1.21 A
MAX INPUT CURRENT	15 A
MAX DC INPUT VOLTAGE	60V
CEC WEIGHTED EFFICIENCY	97%
MAX FUSE (OCPD)	20 A

PHOTOVOLTAIC AC OUTPUT LABEL	
AC OUTPUT CURRENT	24.2A
NOMINAL AC VOLTAGE	240V

PV LOAD CALCULATIONS: LOAD SIDE TIE-IN	
200A RATED MAIN PANEL	
200A x 120% = 240A	
240A - 200A =	40A
40A AVAILABLE FOR PV	
705.12(B)(2)	

ConEd account name: Carol Gutman
ConEd account number: 51-1702-1960-0001-5
ConEd meter number: 009656758



ELECTRICAL NOTES

- ALL COMPONENTS SHALL COMPLY WITH NEC AS AMENDED.
- PHASE CONDUCTORS SHALL BE IDENTIFIED
- ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO BOXES, REFER TO MANUFACTURERS INSTALLATION MANUAL FOR REQUIRED TORQUE VALUES
- THE DC GEC, IF USED, SHALL BE CONTINUOUS FROM THE INVERTER GROUND BUS TO THE MAIN SERVICE GROUNDING ELECTRODE SYSTEM
- ATTACHMENT TO GROUND ELECTRODE SHALL USE IRREVERSIBLE CLAMP.
- ALL EXPOSED METAL PARTS SHALL BE GROUNDED USING TIN PLATED COPPER LAY IN LUGS OR GROUNDING CLIPS LISTED FOR THE PURPOSE
- MIN #10 BARE COPPER EGC AT SOURCE CIRCUITS SHALL BE ROUTED SECURELY TO MOUNTING HARDWARE THAT PROTECTS FROM PHYSICAL DAMAGE
- #6 FOR AREAS THAT MAY BE SUBJECT TO DAMAGE
- BOTH ENDS OF ALL METALLIC CONDUIT SHALL BE BONDED PER NEC 250
- INTERCONNECTION PER NEC 690
- ALL WIRES WILL BE RATED AT THHN/THWN-2

- All Exposed PV rooftop conductors that are not located under the array modules, shall be installed in a listed raceway, and shall include listed junction boxes at both ends of the raceway to transition from exposed conductors to the listed raceways. In Accordance with NEC 690.31(A) & (B)**
- ROMEX AMPACITY LIMITED TO 60° VALUES. IF USED, SIZE ACCORDING TO NEC TABLE 310.15
- DC Conduit must be marked in accordance with NEC 690.31. Labeling must be every 10' and must comply with NEC 690.31. See PV05 for Label plan
- ALL DC Conductors must be protected with metal conduit

CONDUCTOR SCHEDULE WITH NEC ELECTRICAL CALCULATIONS

ID	CONDUCTOR	CONDUIT	NO. OF CNDRS. IN CNDT.	RATED AMPS	EGC	TEMP. CORR. FACTOR	FILL ADJ. FACTOR	CONT. CURRENT	MAX. CURRENT	BASE AMPACITY	DERATED AMPACITY	WIRE RUN DISTANCE
1	ENPHASE Q CABLE	FREE AIR	N/A	12.10A	#12 TRUNK CABLE	0.96	N/A	12.10A	15.13A	25A	24.00A	20ft
2	10 AWG THWN-2 CU	3/4" DIA EMT	4	12.10A	10 AWG THWN-2 CU	0.96	0.8	12.10A	15.13A	35A	26.88A	20ft
3	8 AWG THWN-2 CU	3/4" DIA EMT	3	24.2A	10 AWG THWN-2 CU	0.96	1.0	24.20A	30.25A	50A	48.00A	5ft
4	8 AWG THWN-2 CU	3/4" DIA EMT	3	24.2A	10 AWG THWN-2 CU	0.96	1.0	24.20A	30.25A	50A	48.00A	5ft



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SITE INFORMATION:
Gutman, Steven and Carol
198 Riverview Rd,
Irvington, NY 10533
DC SYSTEM SIZE:
8.0 kW



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DATE:
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1LD/ ELECTRICAL DETAIL

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PV03

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PV MODULE SPECIFICATIONS	
MANUFACTURER	LG
MODEL	LG400Q1C-A6
MAX POWER-POINT CURRENT (Imp)	10.76A
MAX POWER-POINT VOLTAGE (Vmp)	37.2V
OPEN CIRCUIT VOLTAGE (Voc)	43.8V
SHORT CIRCUIT CURRENT (Isc)	11.32 A
MAX SERIES FUSE (OCPD)	20 A
MAX POWER (Pmax)	400 W
MAX VOLTAGE (Vdc)	1000 V

2

INVERTER

ENPHASE IQ7PLUS-72-2-US

Max Output: 295VA

CEC Rated Output: 290VA

Rated Output Current: 1.21A

Max Input Current: 15A

Max Input Voltage: 48V

Max Fuse: 20A

3

JUNCTION

BOX

4

AC COMBINER PANEL

100A 120/240V

NON-FUSED

5

PV AC DISCONNECT

60A 120/240V

NON-FUSED

AC DISCONNECT

Lockable, with visible open Knife Blade Disconnect. Clearly visible, accessible and within 10' of billing meter.

6

MAIN SERVICE PANEL

120/240V

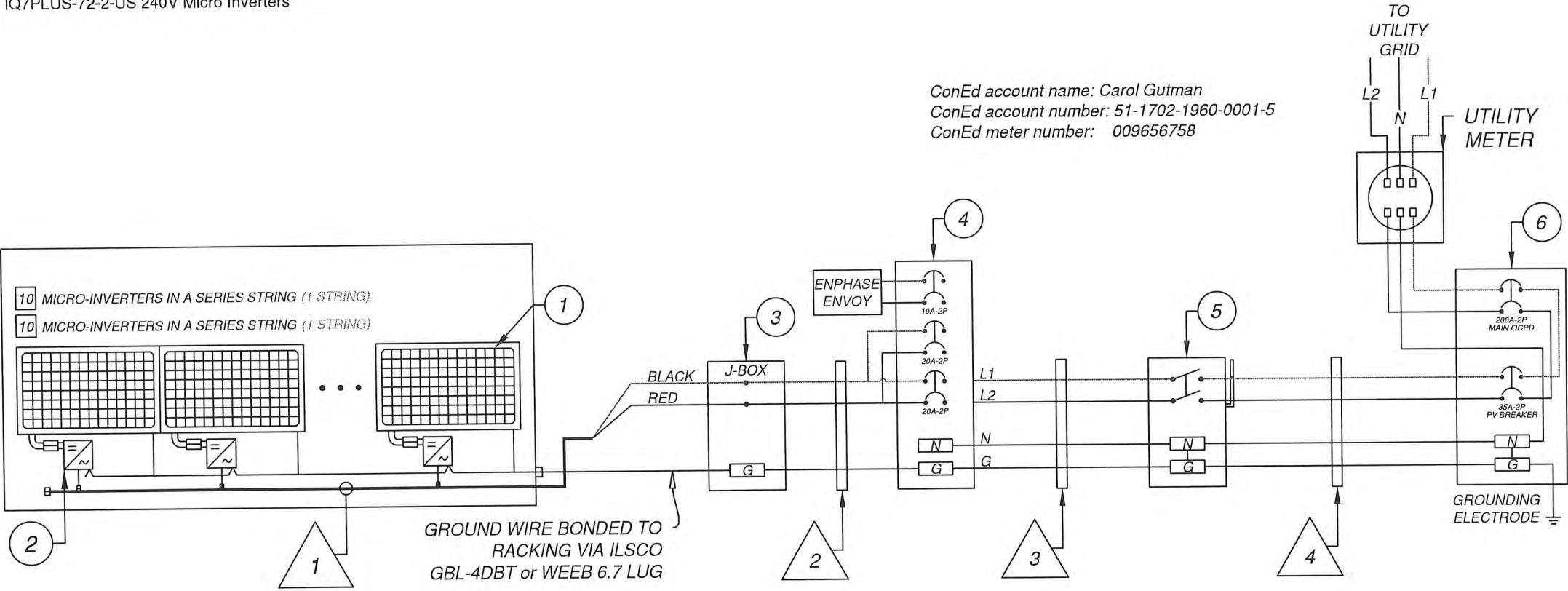
200A Main Bus

200A Main OCPD

INTERCONNECTION LOAD SIDE BREAKER

MODULE: (20) LG LG400Q1C-A6 370W PV Module

INVERTER: 20 Enphase IQ7PLUS-72-2-US 240V Micro Inverters



CONDUCTOR SCHEDULE WITH NEC ELECTRICAL CALCULATIONS												
ID	CONDUCTOR	CONDUIT	NO. OF CNDRS. IN CNDT.	RATED AMPS	EGC	TEMP. CORR. FACTOR	FILL ADJ. FACTOR	CONT. CURRENT	MAX. CURRENT	BASE AMPACITY	DERATED AMPACITY	WIRE RUN DISTANCE
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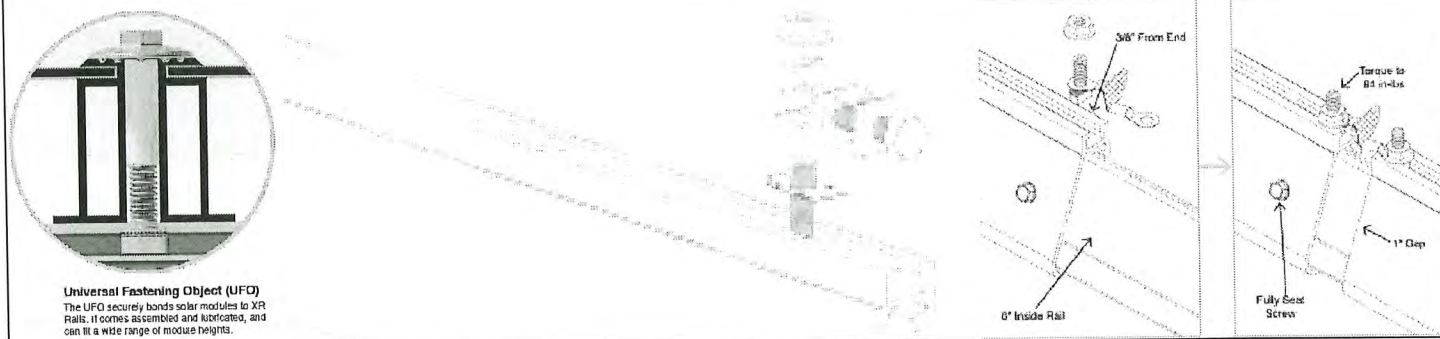
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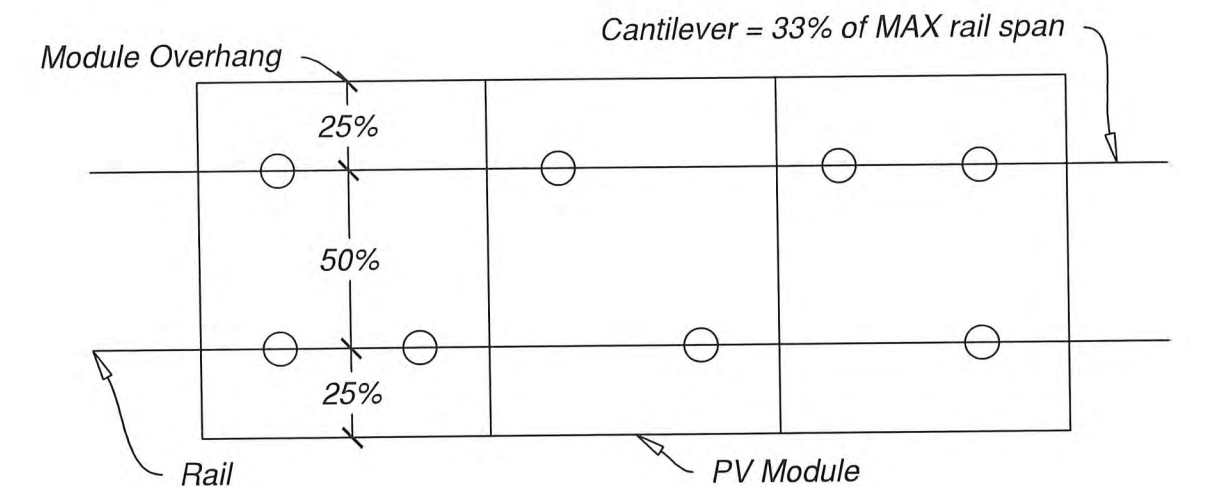
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GROUNDING DETAIL



ATTACHMENT DIAGRAM



48" MAX rail span with staggered attachments to distribute weight across support framing

Diagram: Grid-Tied System W/ Micro-Inverters

Enphase Micro-Inverter

Enphase Q Cable

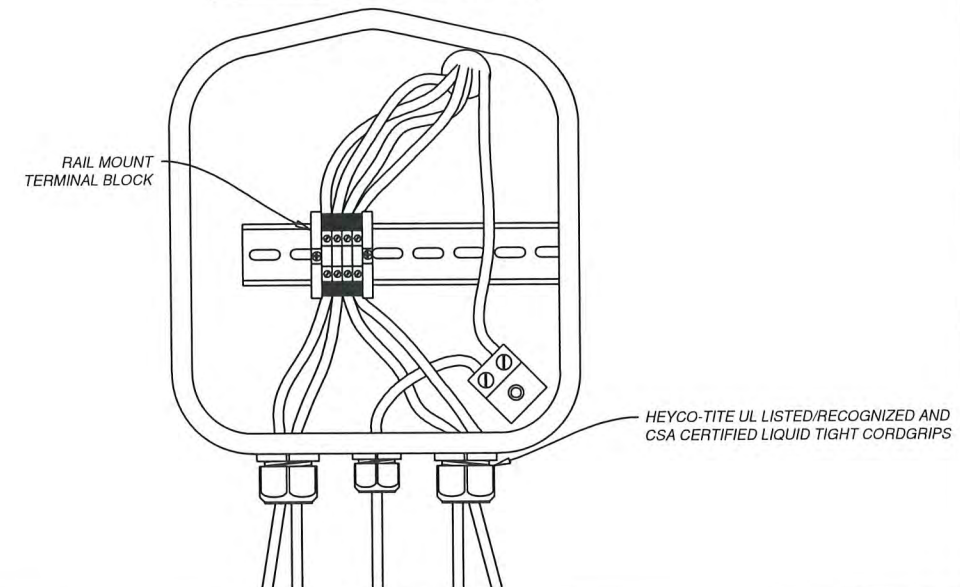
PV Source Circuit

Junction Box

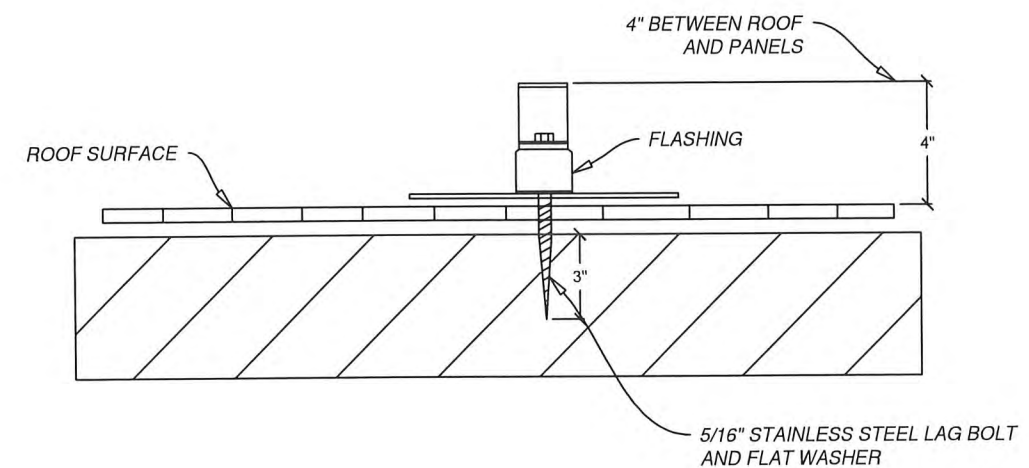
To Load Center

Equipment Grounding Conductor

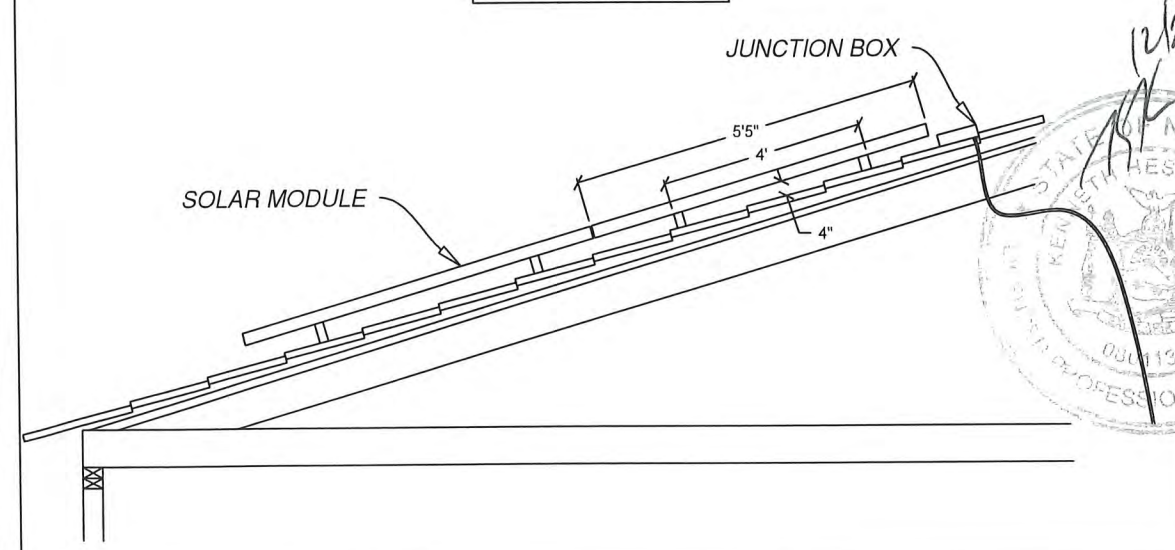
JUNCTION BOX DETAIL



ATTACHMENT DETAIL



PV ATTIC DETAIL



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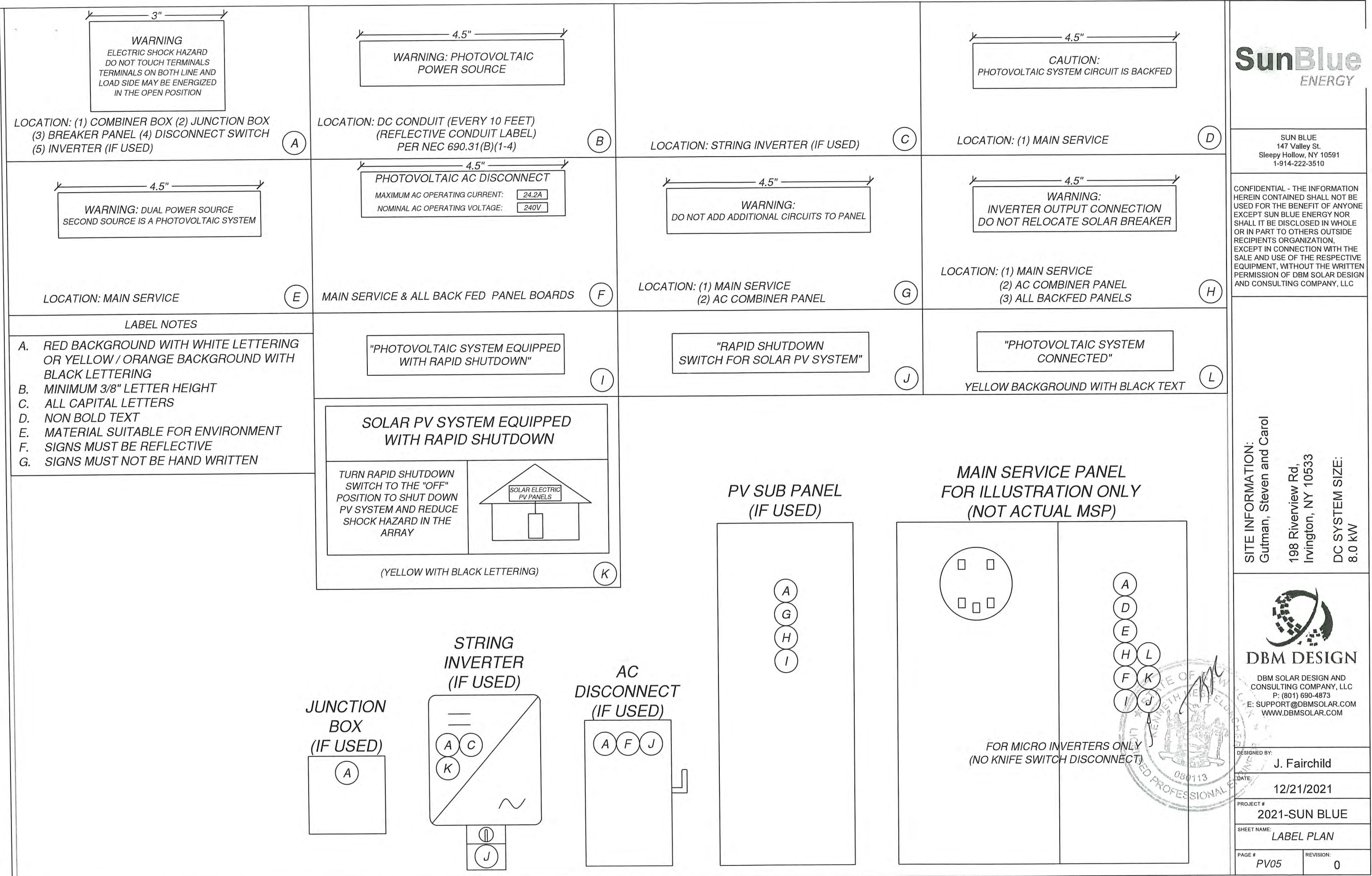
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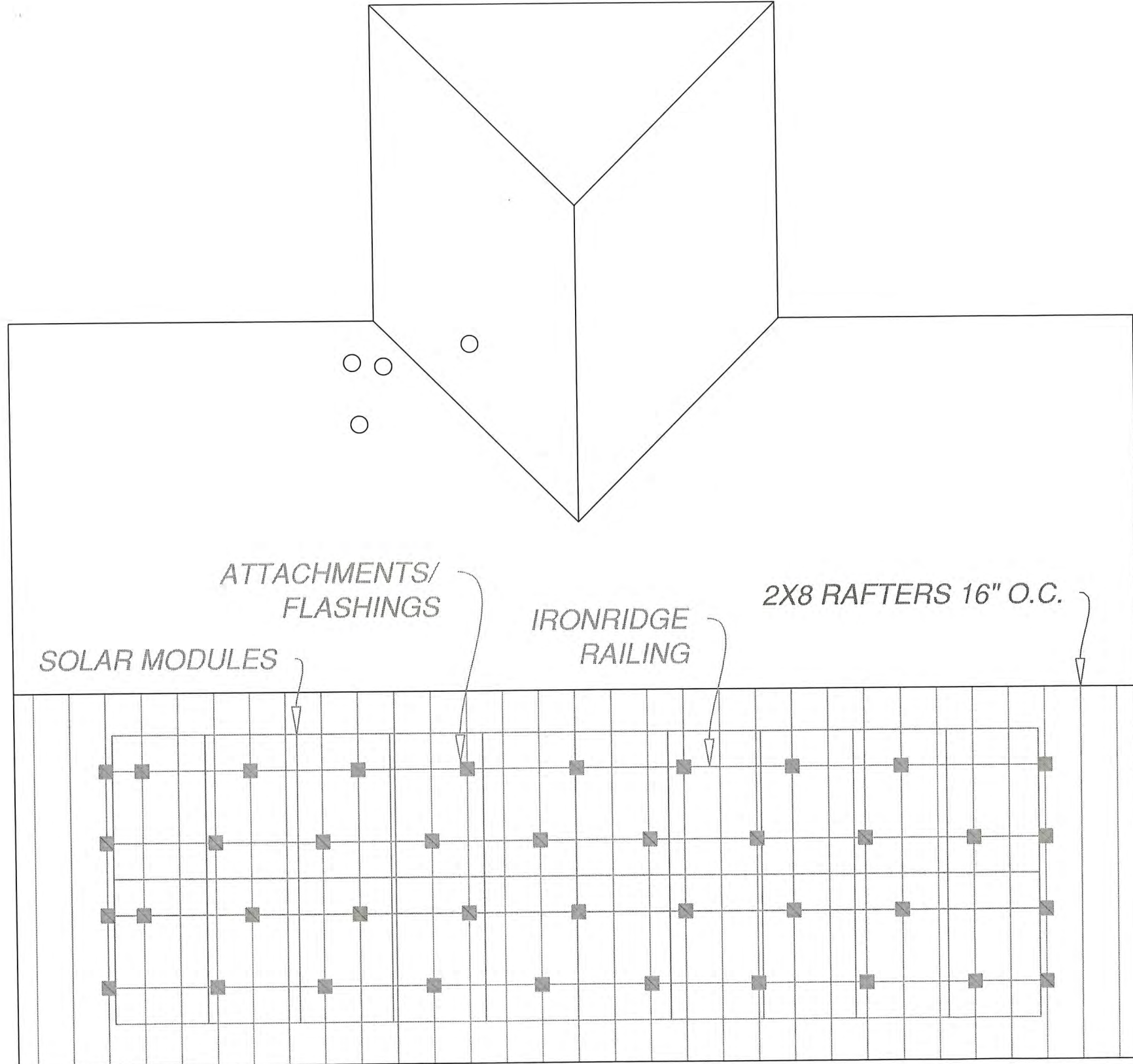
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ARRAY/STRINGING DETAIL

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*See Attached Data Sheets For More Information





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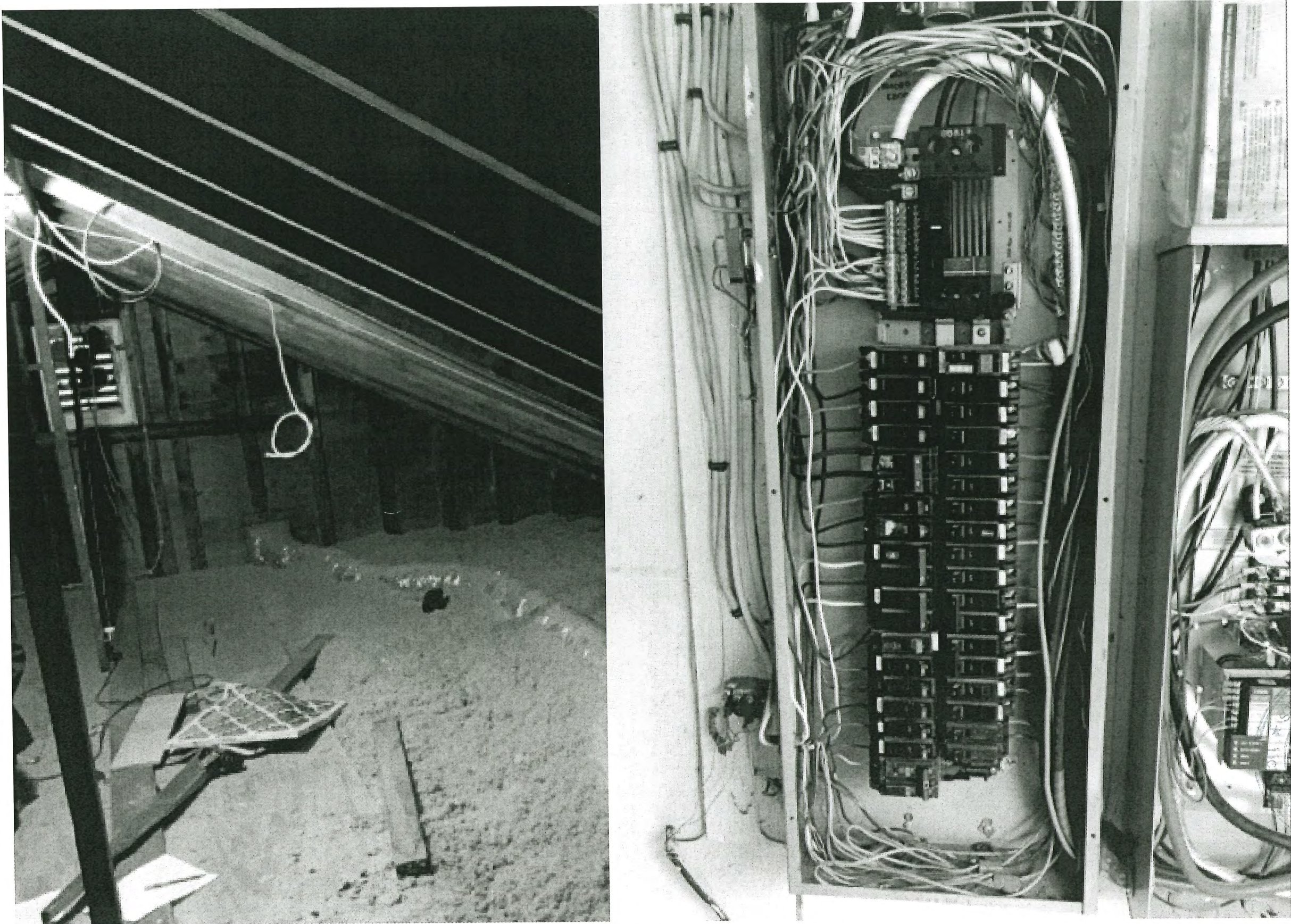
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ATTACHMENT DETAIL

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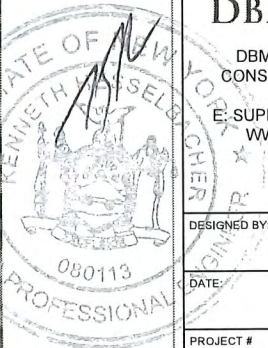
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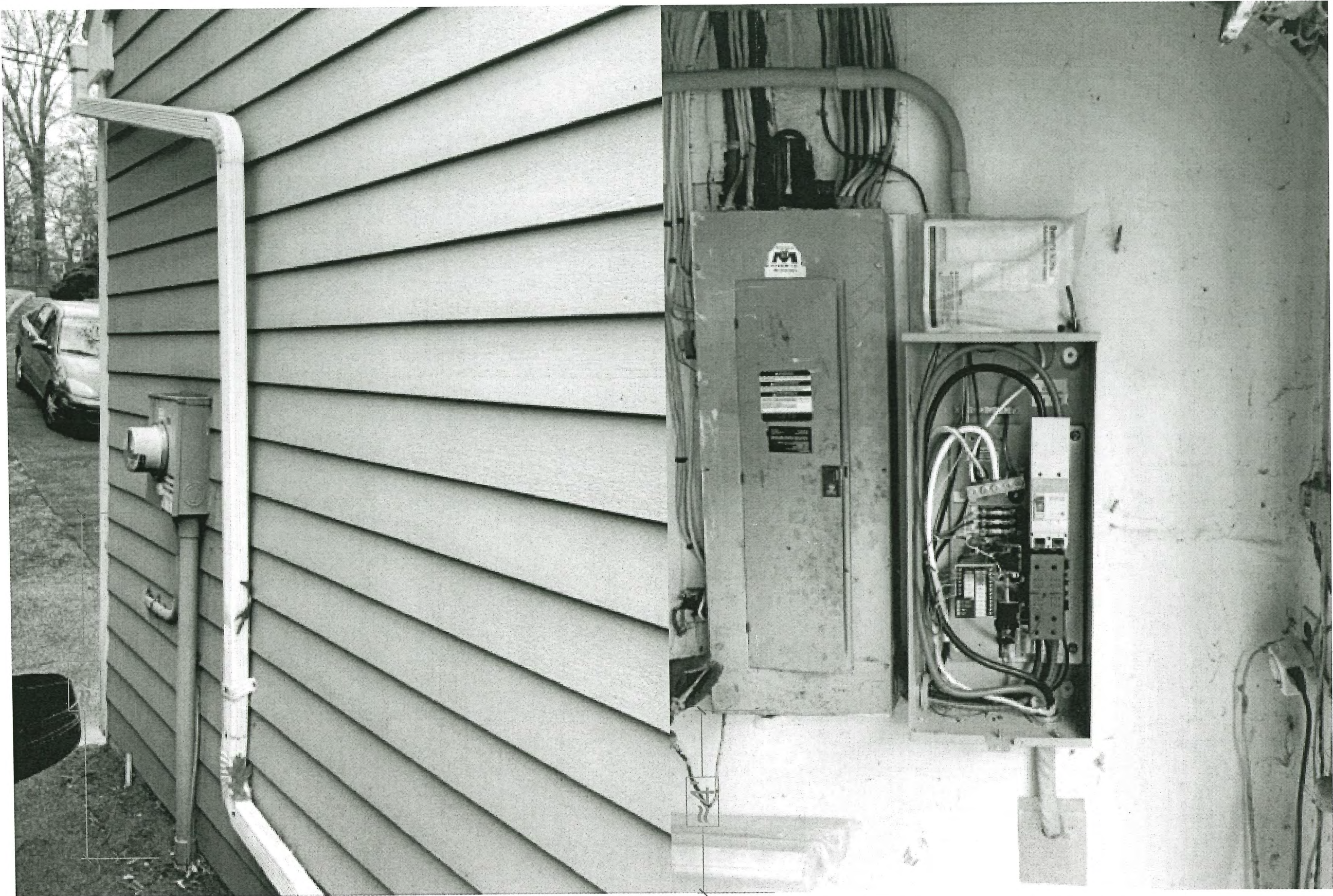
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PICTURES



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SOLAR MODULE SPECSHEET

LG NeON[®]R

LG400Q1C-A6

400W

LG NeON[®]R is powerful solar module that provides world-class performance. A new cell structure that eliminates electrodes on the front maximizes the utilization of light and enhances reliability.

LG NeON[®]R is a result of LG's efforts to increase customer's values beyond efficiency. LG NeON[®]R features enhanced durability, performance under real-world conditions, an enhanced warranty and aesthetic design suitable for roofs.



Features



Roof Aesthetics

LG NeON[®]R has been designed with aesthetics in mind: the lack of any electrodes on the front creates an improved, modern aesthetic.



Enhanced Performance Warranty

The LG NeON[®]R has an enhanced performance warranty. After 25 years, LG NeON[®]R is guaranteed at least 92.5% of initial performance.



25-Year Limited Product Warranty

The NeON[®]R is covered by a 25-year limited product warranty. In addition, up to \$450 of labor costs will be covered in the rare case that a module needs to be repaired or replaced.



More generation per square meter

The LG NeON[®]R has been designed to significantly enhance its output, making it efficient even in limited space.

When you go solar, ask for the brand you can trust: LG Solar

About LG Electronics USA, Inc.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company first embarked on a solar energy source research program in 1995, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first Mono[®] series to the market, which is now available in 32 countries. The NeON[®] (previous Mono[®] NeON), NeON[®]2, NeON[®]2 Bifacial won the "Innovative Award" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.



LG NeON[®]R

LG400Q1C-A6

General Data

Cell Properties (Material/Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	60 Cells (6 x 10)
Module Dimensions (L x W x H)	1,740mm x 1,042mm x 40mm
Weight	18.5 kg
Glass (Material)	Tempered Glass with AR Coating
Backsheet (Color)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,250mm x 2EA
Connector (Type/Maker)	MC 4 / MC

Certifications and Warranty

Certifications*	IEC 61215-1/-1-1/2: 2016, IEC 61730-1/2: 2016, UL 61730-1: 2017, UL 61730-2: 2017, ISO 9001, ISO 14001, ISO 50001, OHSA 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity G
Ammonia Corrosion Test	IEC 62716: 2013
Module Fire Performance	Type 1 (UL 61730)
Fire Rating	Class C (UL 790, ULC / ORD C 1703)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

*Improved 1st year 98.5%, from 2nd year -0.25%/year down, 92.5% at year 25

Temperature Characteristics

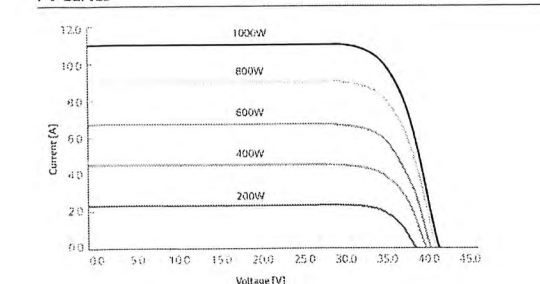
NMOT	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

Model		LG400Q1C-A6
Maximum Power (Pmax)	[W]	303
MPP Voltage (Vmpp)	[V]	35.2
MPP Current (Impp)	[A]	8.62
Open Circuit Voltage (Voc)	[V]	41.8
Short Circuit Current (Isc)	[A]	9.13

I-V Curves



Electrical Properties (STC*)

Model	LG400Q1C-A6	
Maximum Power (Pmax)	[W]	400
MPP Voltage (Vmpp)	[V]	37.2
MPP Current (Impp)	[A]	10.76
Open Circuit Voltage (Voc,±5%)	[V]	43.8
Short Circuit Current (Isc,±5%)	[A]	11.32
Module Efficiency	[%]	22.1
Power Tolerance	[%]	0 ~ +3

*STC (Standard Test Condition): Irradiance 1000 W/m², Cell temperature 25°C, AM 1.5
Measure Tolerance: ±3%

Operating Conditions

Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa/psf]	5,400
Mechanical Test Load* (Rear)	[Pa/psf]	4,000

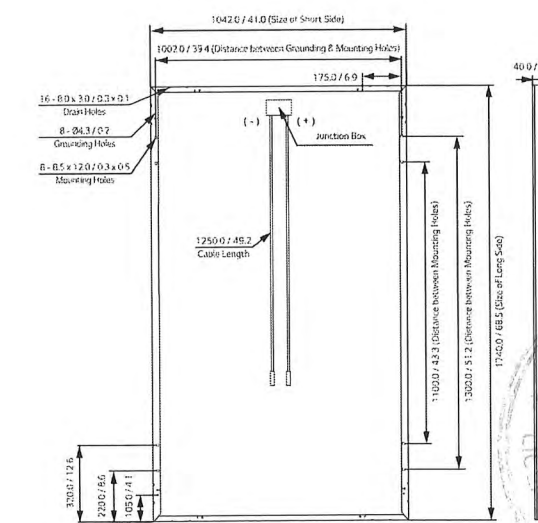
*The operating ambient temperature of these devices may exceed 40°C at full load for all wire sizes if it is determined suitable in the field use application.

**Based on IEC 61215-2: 2016 (Test Load = Design Load x Safety Factor (1.5))

Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40' Container	[EA]	550
Number of Modules per 53' Container	[EA]	950
Packaging Box Dimensions (L x W x H)	[mm]	1,790 x 1,120 x 1,227
Packaging Box Dimensions (L x W x H)	[in]	70.5 x 44.1 x 48.3
Packaging Box Gross Weight	[kg]	498
Packaging Box Gross Weight	[lb]	1,098

Dimensions (mm/inch)



LG Electronics USA, Inc.
Solar Business Division
2000 Millbrook Drive
Lincolnshire, IL 60069
www.lg-solar.com

Product specifications are subject to change without notice.
LG400Q1C-A6.pdf
011821

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SunBlue
ENERGY

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SITE INFORMATION:
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DC SYSTEM SIZE:
8.0 kW



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DESIGNED BY:

J. Fairchild

DATE:

12/21/2021

PROJECT #

2021-SUN BLUE

SHEET NAME:

SPEC SHEETS

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REVISION:

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INVERTER SPECSHEET

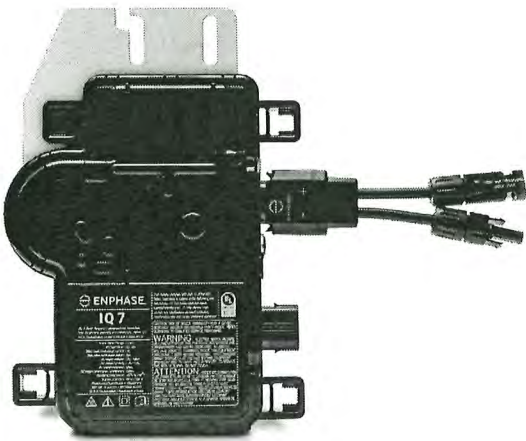
Data Sheet
Enphase Microinverters
Region: AMERICAS

Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready Enphase IQ 7 Micro™ and Enphase IQ 7+ Micro™ dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell/120 half-cell and 72-cell/144 half-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell/144 half-cell modules.



To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US		IQ7PLUS-72-2-US	
Commonly used module pairings ¹	235 W - 350 W +		235 W - 440 W +	
Module compatibility	60-cell/120 half-cell PV modules only		60-cell/120 half-cell and 72-cell/144 half-cell PV modules	
Maximum input DC voltage	48 V		60 V	
Peak power tracking voltage	27 V - 37 V		27 V - 45 V	
Operating range	16 V - 48 V		16 V - 60 V	
Min/Max start voltage	22 V / 48 V		22 V / 60 V	
Max DC short circuit current (module Isc)	15 A		15 A	
Overvoltage class DC port	II		II	
DC port backfeed current	0 A		0 A	
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit			
OUTPUT DATA (AC)	IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit ³	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	18 mA		18 mA	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.85 leading ... 0.85 lagging		0.85 leading ... 0.85 lagging	
EFFICIENCY	@240 V	@208 V	@240 V	@208 V
Peak efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA				
Ambient temperature range	-40°C to +65°C			
Relative humidity range	4% to 100% (condensing)			
Connector type	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)			
Dimensions (HxWxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 lbs)			
Cooling	Natural convection - No fans			
Approved for wet locations	Yes			
Pollution degree	PD3			
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor			
FEATURES				
Communication	Power Line Communication (PLC)			
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.			
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.			

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>.
2. Nominal voltage range can be extended beyond nominal if required by the utility.
3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com

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DESIGNED BY:
J. Fairchild

DATE:
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RACKING SPECSHEET

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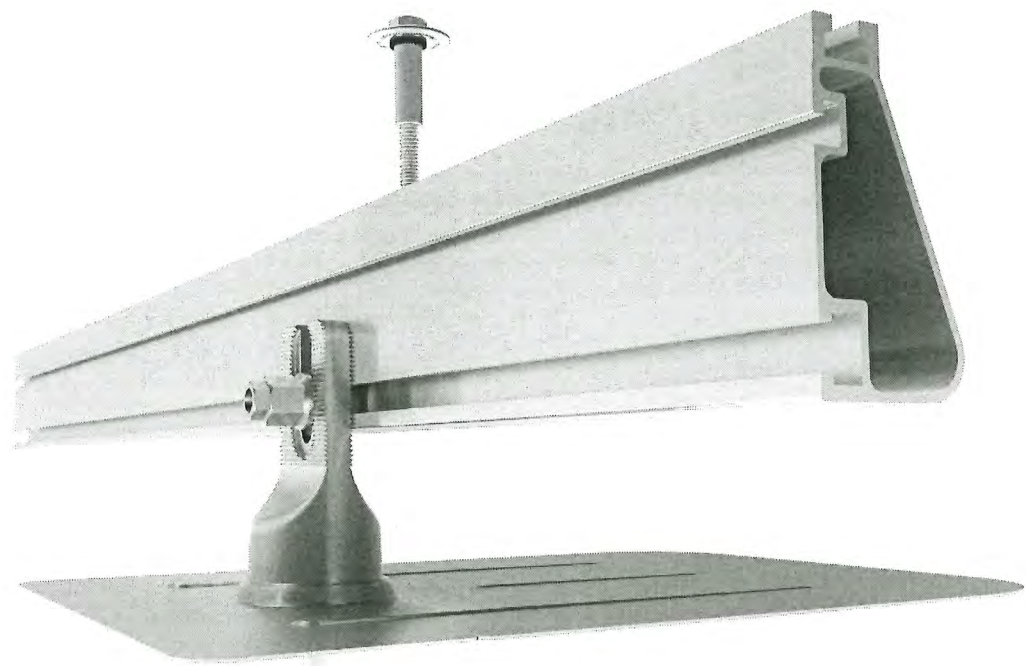
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IRONRIDGE

Flush Mount System



Built for solar's toughest roofs.

IronRidge builds the strongest mounting system for pitched roofs in solar. Every component has been tested to the limit and proven in extreme environments.

Our rigorous approach has led to unique structural features, such as curved rails and reinforced flashings, and is also why our products are fully certified, code compliant and backed by a 20-year warranty.



Strength Tested

All components evaluated for superior structural performance.



Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof.



UL 2703 Listed System

Entire system and components meet newest effective UL 2703 standard.



PE Certified

Pre-stamped engineering letters available in most states.



Design Assistant

Online software makes it simple to create, share, and price projects.



20-Year Warranty

Twice the protection offered by competitors.

XR Rails ☺

XR10 Rail



A low-profile mounting rail for regions with light snow.

- 6' spanning capability
- Moderate load capability
- Clear and black finish

XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability
- Heavy load capability
- Clear and black finish

XR1000 Rail



A heavyweight mounting rail for commercial projects.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish

Bonded Splices

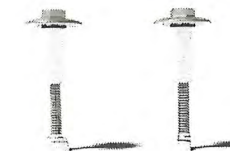


All rails use internal splices for seamless connections.

- Self-drilling screws
- Varying versions for rails
- Forms secure bonding

Clamps & Grounding ☺

UFOs



Universal Fastening Objects bond modules to rails.

- Fully assembled & lubed
- Single, universal size
- Clear and black finish

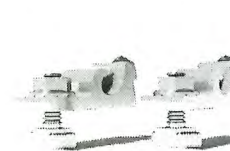
Stopper Sleeves



Snap onto the UFO to turn into a bonded end clamp.

- Bonds modules to rails
- Sized to match modules
- Clear and black finish

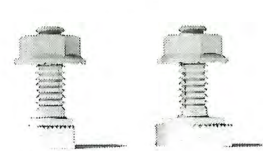
Grounding Lugs



Connect arrays to equipment ground.

- Low profile
- Single tool installation
- Mounts in any direction

Microinverter Kits

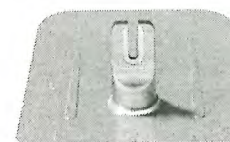


Mount MIs or POs to XR Rails.

- Bonds devices to rails
- Kit comes assembled
- Listed to UL 2703

Attachments ☺

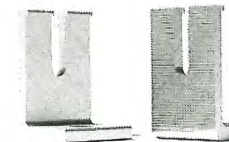
FlashFoot2



Flash and mount XR Rails with superior waterproofing.

- Twist-on Cap eases install
- Wind-driven rain tested
- Mill and black finish

Slotted L-Feet



Drop-in design for rapid rail attachment.

- Secure rail connections
- Slot for vertical adjusting
- Clear and black finish

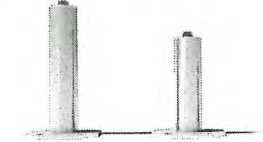
Bonding Hardware



Bond and attach XR Rails to roof attachments.

- T & Square Bolt options
- Nut uses 7/16" socket
- Assembled and lubricated

Flush Standoffs



Raise Flush Mount System to various heights.

- Works with vent flashing
- 4" and 7" lengths
- Ships assembled

Resources



Design Assistant

Go from rough layout to fully engineered system. For free.

Go to IronRidge.com/design



NABCEP Certified Training

Earn free continuing education credits, while learning more about our systems.

Go to IronRidge.com/training