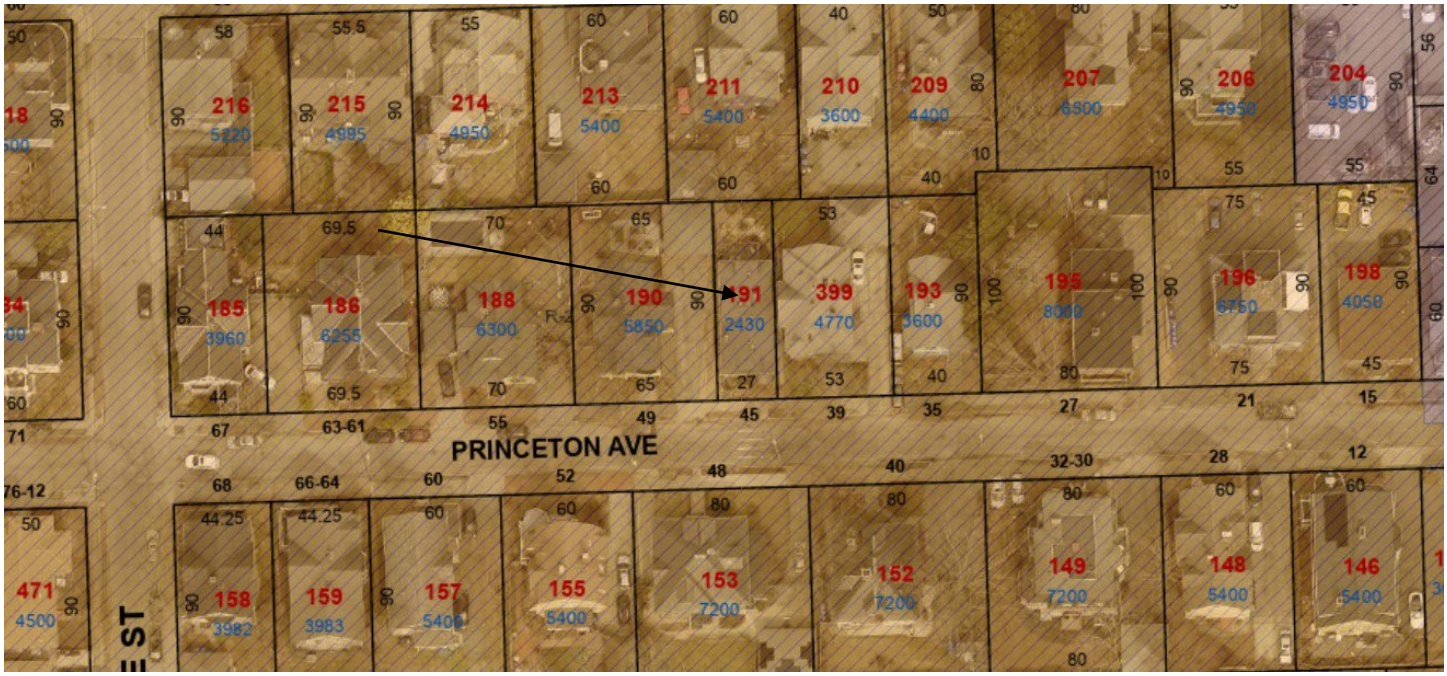
**2. CASE 24.128, 45 PRINCETON AVENUE, House, 1929 (NORTH ELMWOOD)**
CONTRIBUTING




Arrow indicates 45 Princeton Avenue.


Arrow indicates project location, looking north.

**Applicant/Contractor:** Brandon Murdock, SunRite Solar LLC, 19-2 Bonazzoli Avenue, Hudson, MA 01749
**Owner:** Peter Lutz, 45 Princeton Avenue, Providence, RI 02907

**Proposal:** The scope of work proposed consists of Minor Alterations and includes:

- the installation of 13 solar panels to the east and west slopes of the hip roof.

**Issues:** The following issues are relevant to this application:

- The application as submitted will be partially visible from the public rights-of-way;
- The modifications as proposed meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, in the following manner: Panel layout shall be sympathetic or appropriate to design and scale of building. Rectangular configurations are preferred, with ample setback from edge of roof, dormers, chimneys, etc. (2.A); Panels shall be installed parallel to the existing roof slope and matched as closely as possible to the roof plane (2.B); Panels shall be installed without destroying or replacing original or historic materials or significantly compromising or altering the building's structural integrity (2.C); Panels shall be compatible in color to existing roofing insofar as possible (2.D); Installation of panels shall be as inconspicuous as possible when viewed from public right-of-way (2.E); Installation shall be reversible. Panels shall be removed when no longer viable or functioning and roofing restored to pre-existing conditions (2.F); and,
- Plans, specifications and pictures have been submitted.

**Recommendations:** The staff recommends the PHDC make the following findings of fact:

a) 45 Princeton Avenue is a structure of historical and architectural significance that contributes to the significance of the North Elmwood local historic district, having been recognized as a contributing structure to the Elmwood National Register Historic District;
b) The modifications as proposed meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, and the application is considered complete; and,
c) The work as proposed is in accord with PHDC Standards 8 & 9 as follows: 8) the work will be done so that it does not destroy the historic character of the property or the district as they are not on the primary elevation and will be minimally visible from the public rights-of-way; and, 9) Whenever possible… alterations to structures shall be done in such a manner that if removed in the future, the essential form and integrity of the structure and the site will be unimpaired.

**Staff recommends a motion be made stating that: The application is considered complete. 45 Princeton Avenue is a structure of historical and architectural significance that contributes to the significance of the North Elmwood local historic district, having been recognized as a contributing structure to the Elmwood National Register Historic District. The Commission grants Final Approval of the proposal as submitted as the proposed alteration is appropriate having determined that the proposed alteration does not destroy the historic character of the property or the district and are historically and architecturally compatible with the property and district. The proposed alteration meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, is reversible and will not have an adverse effect on the property or district as they will be minimally visible from the public rights-of-way (Standards 8 & 9), and the recommendations in the staff report, with staff to review any additional required details.**

## SCOPE OF WORK

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE LOCATED AT 45 PRINCETON AVE, PROVIDENCE, RI 02907, USA.
THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT.
THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES.

| EQUIPMENT SUMMARY |
|---|
| 13 JINKO SOLAR JKM425N-54HL4R-B MODULES |
| 13 ENPHASE IQ8PLUS -72-2-US (240V) MICROINVERTERS |

## GENERAL NOTES

- THESE CONSTRUCTION DOCUMENTS HAVE BEEN BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAIN ALL PERMITS, LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION.
- CONTRACTOR SHALL OBTAIN BULDING PERMIT. NO WORK TO START UNLESS BUILDING PERMIT IS PROPERLY DISPLAYED.
- ALL WORKMANSHIP AND MATERIALS SHALL BE OF FIRST QUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE, THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ALL PERTINENT AGENCIES.
- IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH.
- THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS, CERTIFICATIONS, ETC. AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES.
- CONTRACTORS SHALL OBTAIN FIRE CERTIF. UPON COMPLETION OF WORK.

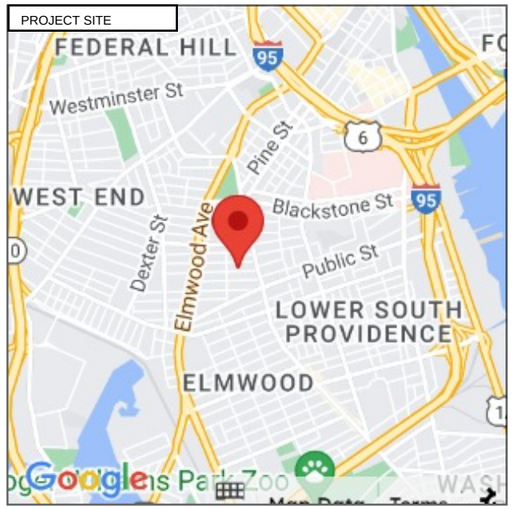
## ELECTRICAL NOTES

- ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 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.
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURERS INSTRUCTION.
- MODULE SUPPORT RAIL SHALL BE BONDED TO THE MODULE

| GOVERNING CODES |
|---|
| 2018 INTERNATIONAL RESIDENTIAL CODE<br>2018 INTERNATIONAL FIRE CODE<br>2018 INTERNATIONAL BUILDING CODE<br>2020 NATIONAL ELECTRICAL CODE<br>2021 RHODE ISLAND STATE BUILDING CODE |
| AHJ NAME : CITY OF PROVIDENCE |

## WIRING AND CONDUIT NOTES

- ALL CONDUIT SIZES AND TYPES SHALL BE LISTED FOR ITS PURPOSE AND APPROVAL FOR THE SITE APPLICATIONS
- ALL PV CABLES AND HOMERUN WIRES BE #10AWG *USE-2, PV WIRE, OR PROPRIETARY SOLAR CABLING SPECIFIED BY MFR, OR EQUIVALENT; ROUTED TO SOURCE CIRCUIT COMBINER BOXES AS REQUIRED
- ALL PV DC CONDUCTORS IN CONDUIT EXPOSED TO SUNLIGHT SHALL BE DERATED ACCORDING TO AS PER LATEST NEC CODE.
- EXPOSED ROOF PV DC CONDUCTORS SHALL BE USE-2, 90°C RATED, WET AND UV RESISTANT, AND UL LISTED RATED FOR 600V, UV RATED SPIRAL WRAP SHALL BE USED TO PROTECT WIRE FROM SHARP EDGES
- PHASE AND NEUTRAL CONDUCTORS SHALL BE DUAL RATED THHN/THWN-2 INSULATED, 90°C RATED, WET AND UV RESISTANT, RATED FOR 1000V AS PER APPLICABLE NEC
- 4-WIRE DELTA CONNECTED SYSTEMS HAVE THE PHASE WITH THE HIGHER VOLTAGE TO GROUND MARKED ORANGE OR IDENTIFIED BY OTHER EFFECTIVE MEANS
- ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION
- VOLTAGE DROP LIMITED TO 2%
- AC CONDUCTORS >4AWG COLOR CODED OR MARKED: PHASE A OR L1- BLACK, PHASE B OR L2- RED, PHASE C OR L3- BLUE, NEUTRAL- WHITE/GRAY




VICINITY MAP SCALE: NTS


HOUSE PHOTO SCALE: NTS

| SYSTEM RATING |
|---|
| 5.525 kWDC |
| 3.770 kWAC |

PHOTOVOLTAIC SYSTEM FIRE CLASSIFICATION LISTING IN ACCORDANCE WITH UL 1703 STANDARD.

| SHEET INDEX | |
|---|---|
| PV1 | COVER PAGE |
| PV2 | SITE PLAN |
| PV3 | ROOF PLAN |
| PV4 | STRING LAYOUT & BOM |
| PV5-PV6 | ATTACHMENT DETAILS |
| PV7 | ELECTRICAL LINE & CALCS. |
| PV8 | SPECIFICATIONS & NOTES |
| PV9-PV10 | SIGNAGE |
| PV11-PV15 | EQUIPMENT SPECIFICATIONS |

SCOTT E. WYSSLING
No. PE-8286
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Signed 9/03/2024

SMART GREEN
SOLAR · ROOFING · ELECTRIC
SMART GREEN
33 BROAD ST SUITE 500,
PROVIDENCE, RI 02903, USA
PH# : (774) 502-5948

| SYSTEM INFO |
|---|
| (13) JINKO SOLAR JKM425N-54HL4R-B |
| (13) ENPHASE IQ8PLUS -72-2-US (240V) |
| DC SYSTEM SIZE: 5.525 kWDC |
| AC SYSTEM SIZE: 3.770 kWAC |
| |
| METER: 24432762 |

| REVISIONS | | |
|---|---|---|
| DESCRIPTION | DATE | REV |
| | | |
| | | |
| | | |

PROJECT NAME & ADDRESS

PETER LUTZ
RESIDENCE
45 PRINCETON AVE, PROVIDENCE, RI 02907, USA
EMAIL ID: PETERJAMESLUTZ@GMAIL.COM
PHONE NO. (401) 662-6668

DATE: 8/29/2024

SHEET NAME
COVER PAGE

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-1

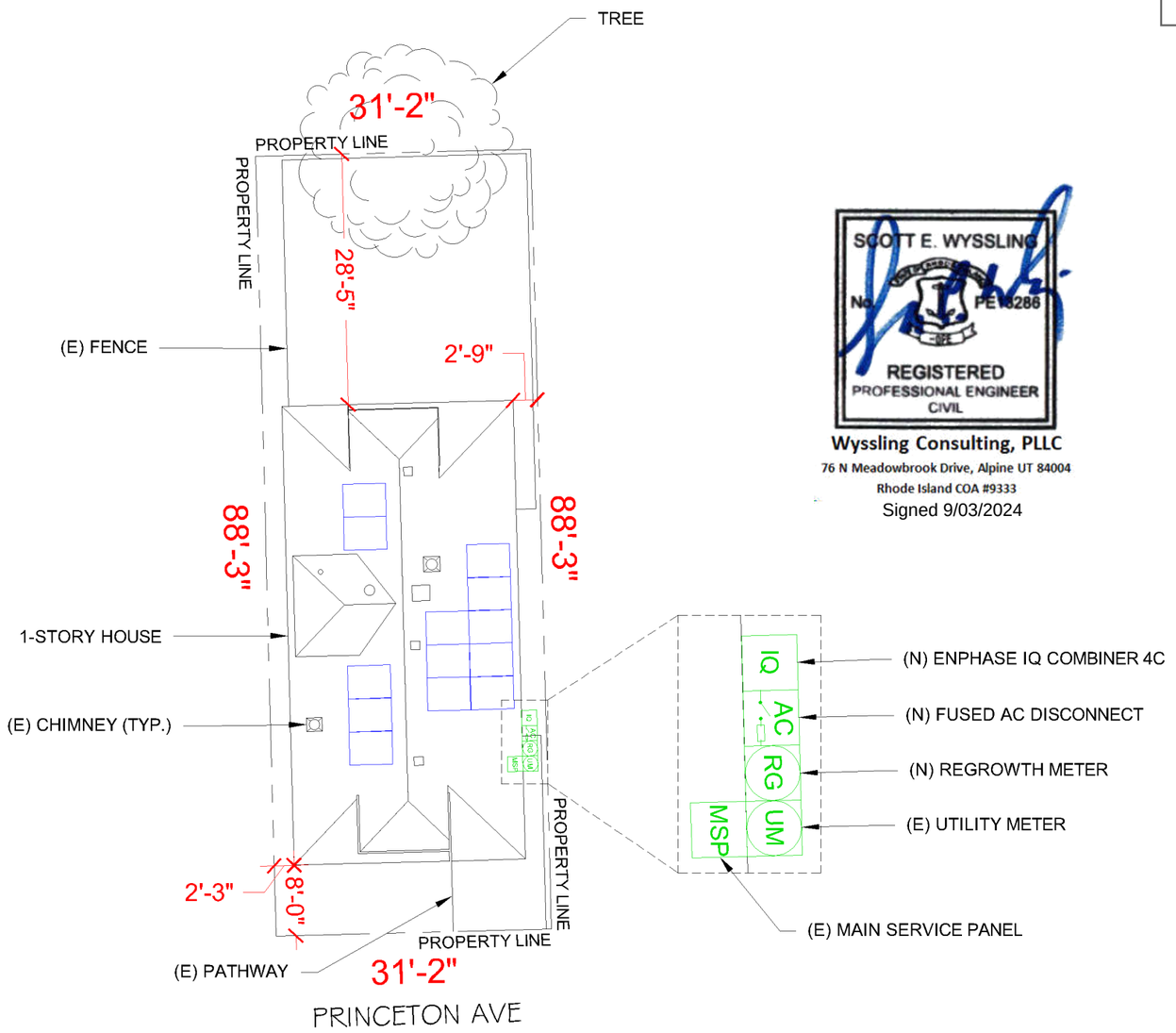

49 Princeton Ave
Providence, Rhode Island
Google Street View
Jul 2019
See more dates
Princeton Ave
Google
Sanchez
Public St
Moore St

## SITE NOTES

- A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS AN UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.
- THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION [NEC 110.26]

**LEGEND**

- JB — (N) JUNCTION BOX
- UM — (E) UTILITY METER
- MSP — (E) MAIN SERVICE PANEL
- IQ — (N) ENPHASE IQ COMBINER
- AC — (N) FUSED AC DISCONNECT
- VENT, ATTIC FAN (ROOF OBSTRUCTION)
- ROOF ATTACHMENT
- CONDUIT
- ENPHASE IQ8PLUS -72-2-US (240V) MICROINVERTER
- JINKO SOLAR JKM425N-54HL4R-B MODULES
- XR-10-168B RAIL
- TRENCH

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Signed 9/03/2024

SCALE: 1/16"= 1'-0

METER NO#: 24432762


SMART GREEN
SOLAR · ROOFING · ELECTRIC
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| SYSTEM INFO |
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| REVISIONS | | |
|---|---|---|
| DESCRIPTION | DATE | REV |
| | | |
| | | |
| | | |

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EMAIL ID: PETERJAMESLUTZ@GMAIL.COM
PHONE NO. (401) 662-6668

DATE: 8/29/2024

SHEET NAME
SITE PLAN

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-2

| DESIGN SPECIFICATION | |
|---|---|
| RISK CATEGORY: | II |
| CONSTRUCTION: | SFD |
| ZONING: | RESIDENTIAL |
| SNOW LOAD (ASCE7-16): | 35 PSF |
| EXPOSURE CATEGORY: | C |
| WIND SPEED (ASCE7-16): | 125 MPH |

| MODULE TYPE, DIMENSIONS & WEIGHT | |
|---|---|
| NUMBER OF MODULES: | 13 MODULES |
| MODULE TYPE: | JINKO SOLAR JKM425N-54HL4R-B |
| MODULE WEIGHT: | 48.5 LBS |
| MODULE DIMENSIONS: | 69.36" X 44.65" = 21.51 SF |
| UNIT WEIGHT OF AREA: | 2.26 PSF |

| ROOF DESCRIPTION | | | | |
|---|---|---|---|---|
| ROOF | ROOF TILT | RAFTER SIZE | RAFTER SPACING | ROOF MATERIAL |
| #1 | 33° | 2" x 6" | 24" o.c. | COMP SHINGLE |
| #2 | 33° | 2" x 6" | 24" o.c. | COMP SHINGLE |

**LEGEND**

- JB — (N) JUNCTION BOX
- UM — (E) UTILITY METER
- MSP — (E) MAIN SERVICE PANEL
- IQ — (N) ENPHASE IQ COMBINER
- AC — (N) FUSED AC DISCONNECT
- VENT, ATTIC FAN (ROOF OBSTRUCTION)
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- JINKO SOLAR JKM425N-54HL4R-B MODULES
- XR-10-168B RAIL
- TRENCH

| ARRAY AREA & ROOF AREA CALC'S | | |
|---|---|---|
| ROOF | # OF MODULES | ARRAY AREA (Sq. Ft.) |
| #1 | 5 | 107.54 |
| #2 | 8 | 172.06 |
| (TOTAL ARRAY AREA/TOTAL ROOF AREA) X 100% | | |
| = (279.59/1603) X 100% = 17.45% | | |

| DEAD LOAD CALCULATION | | | |
|---|---|---|---|
| EQUIPMENT'S DESCRIPTIONS | QTY | LBS/UNIT | TOTAL WEIGHT |
| MODULES | 13 | 48.5 | 630.5 |
| MID CLAMP | 18 | 0.3 | 5.4 |
| END CLAMP | 16 | 0.31 | 4.96 |
| XR-10-168B RAIL | 9 | 5.95 | 53.55 |
| SPLICE BAR | 2 | 0.65 | 1.3 |
| HALO ULTRAGRIP - BLACK (QM-HUG-01-B1) | 34 | 0.57 | 19.38 |
| SELF DRILLING SCREW, #14, WOOD TIP WITH WASHER, EPDM BACKED | 68 | 0.1 | 6.80 |
| TOTAL WEIGHT OF THE SYSTEM (LBS) | | | 721.89 |
| TOTAL ARRAY AREA ON THE ROOF (SQ. FT.) | | | 279.59 |
| WEIGHT PER SQ. FT. (LBS) | | | 2.59 |
| WEIGHT PER PENETRATION (LBS) | | | 7.08 |

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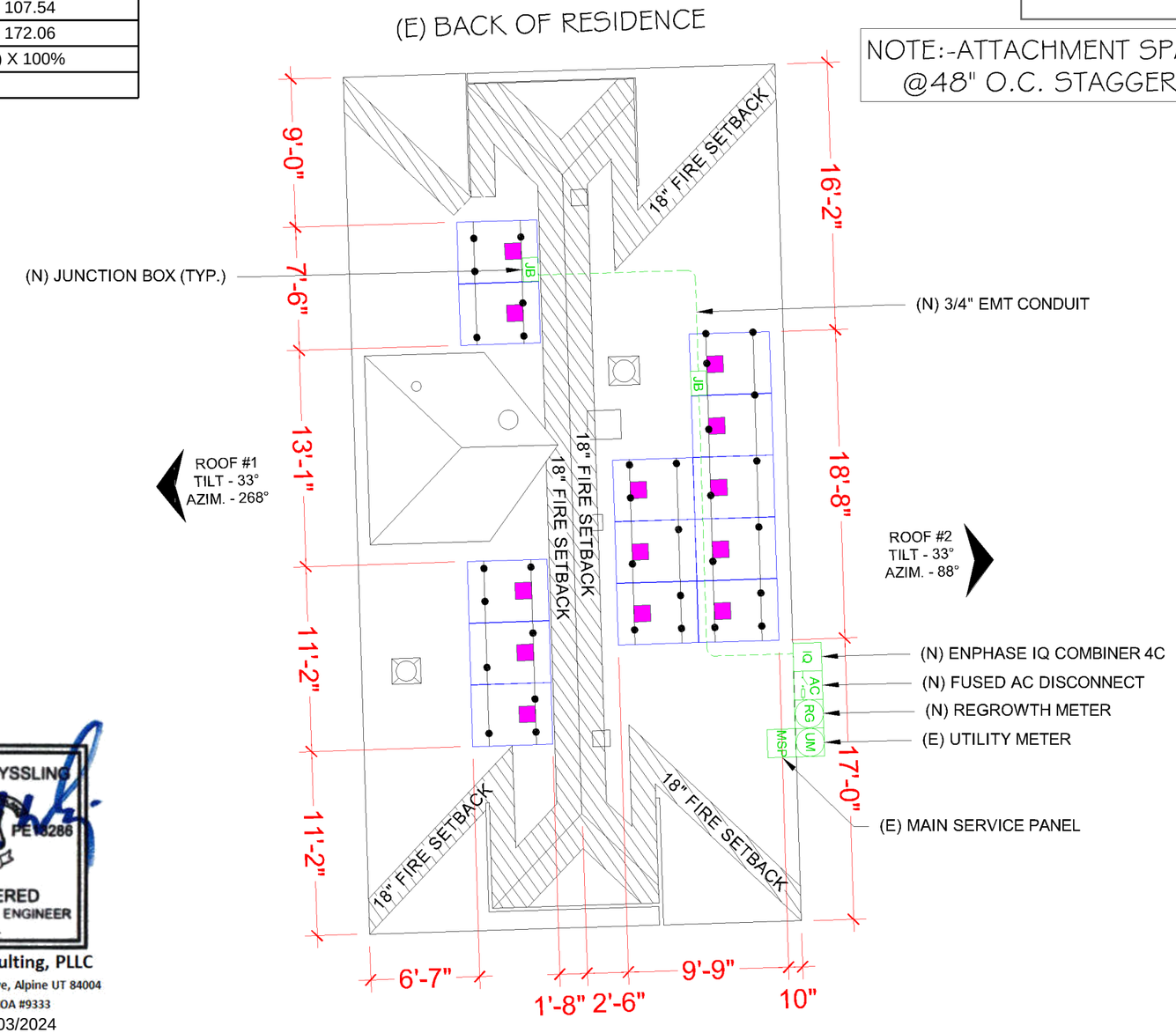
Rhode Island COA #9333
Signed 9/03/2024

(E) BACK OF RESIDENCE

NOTE:-ATTACHMENT SPACING @48" O.C. STAGGERED.




(E) FRONT OF RESIDENCE

PRINCETON AVE

METER NO#: 24432762

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


SMART GREEN
SOLAR · ROOFING · ELECTRIC
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PROVIDENCE, RI 02903, USA
PH# : (774) 502-5948


| SYSTEM INFO |
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| DC SYSTEM SIZE: 5.525 kWDC |
| AC SYSTEM SIZE: 3.770 kWAC |
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| METER: 24432762 |

| REVISIONS | | |
|---|---|---|
| DESCRIPTION | DATE | REV |
| | | |
| | | |
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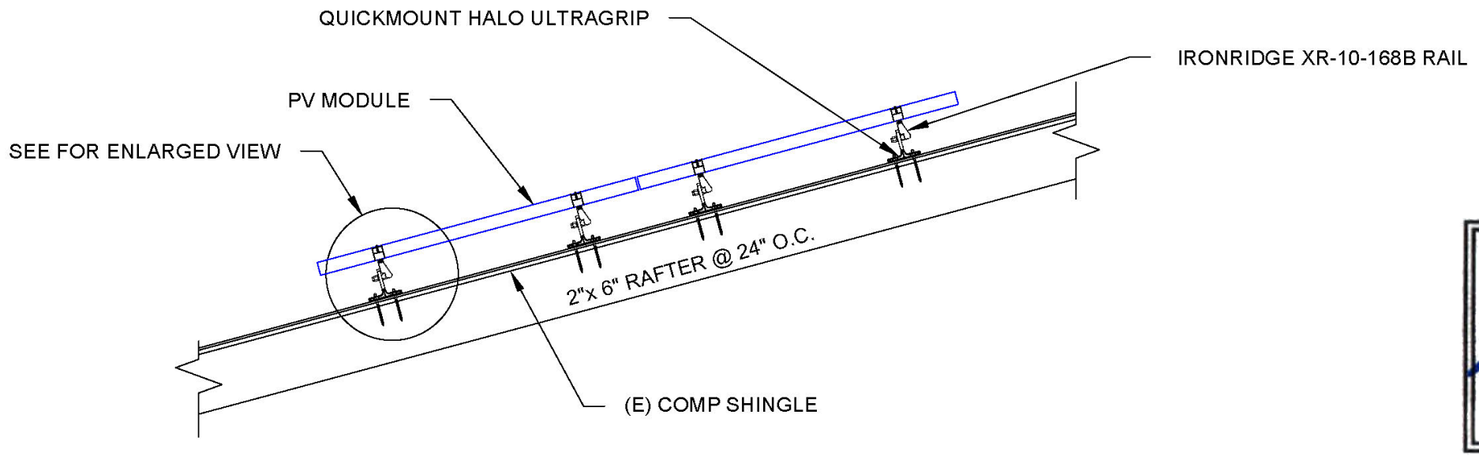
PHONE NO. (401) 662-6668

DATE: 8/29/2024

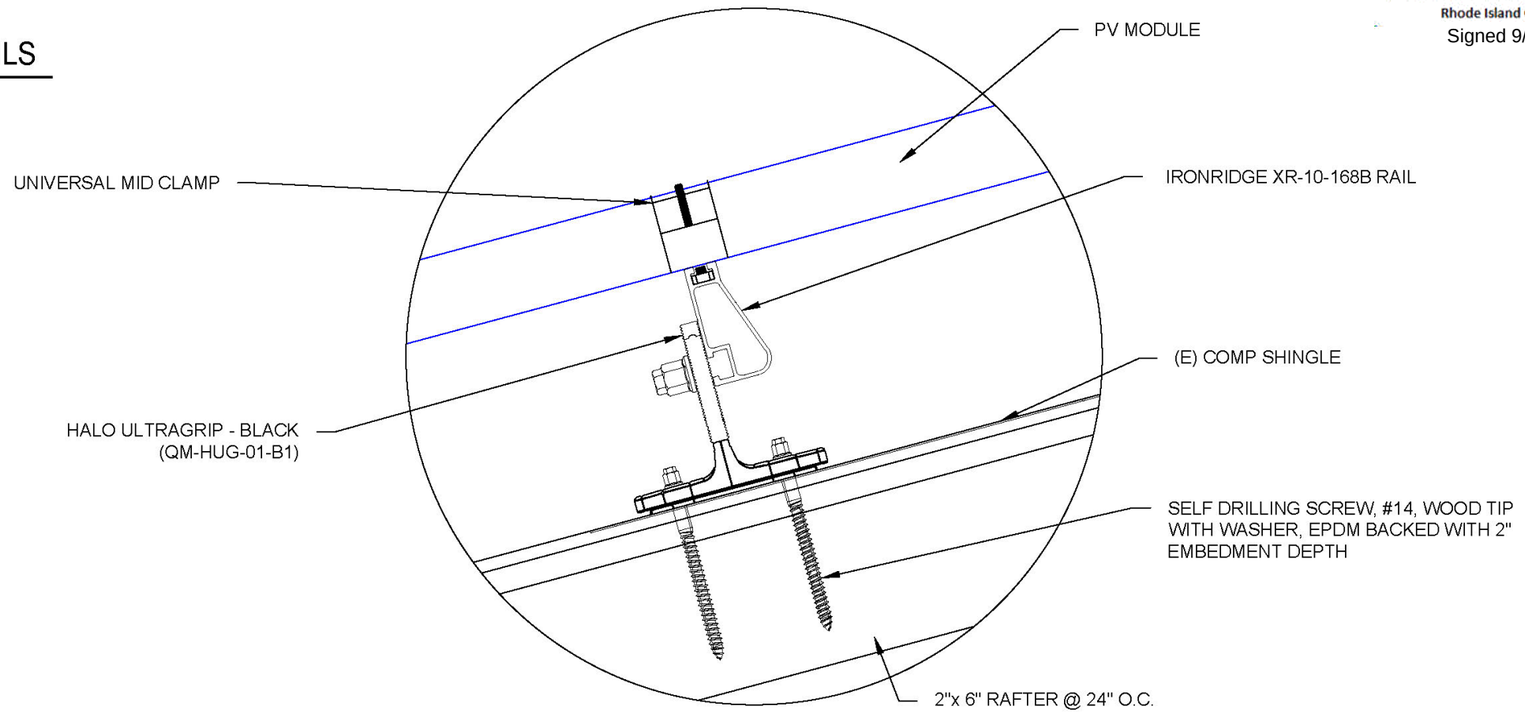
SHEET NAME
ROOF PLAN

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-3




## 1 ATTACHMENT DETAILS




## 2 ENLARGED VIEW FOR ATTACHMENT DETAILS

SCALE : NTS

SCOTT E. WYSSLING
No. PE 10286
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ANSI B
11" X 17"

SHEET NUMBER
PV-5

www.jinkosolar.com

Jinko Solar
Building Your Trust in Solar

# Tiger Neo N-type 54HL4R-B

## *425-445 Watt*

ALL-BLACK MODULE

**N-Type**

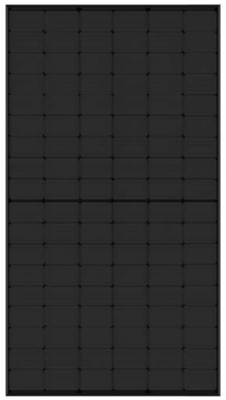
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018
Occupational health and safety management systems



## Key Features

**SMBB Technology**
Better light trapping and current collection to improve module power output and reliability.

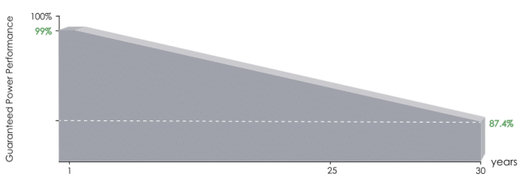
**Hot 2.0 Technology**
The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

**PID Resistance**
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

**Enhanced Mechanical Load**
Certified to withstand: wind load (4000 Pascal) and snow load (6000 Pascal).

**Durability Against Extreme Environmental Conditions**
High salt mist and ammonia resistance.

## LINEAR PERFORMANCE WARRANTY

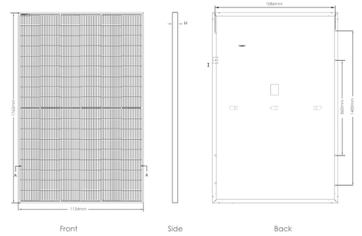


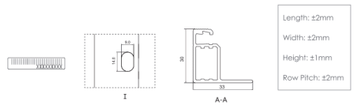

**25** Year Product Warranty

**30** Year Linear Power Warranty

**0.40%** Annual Degradation Over 30 years

## Engineering Drawings



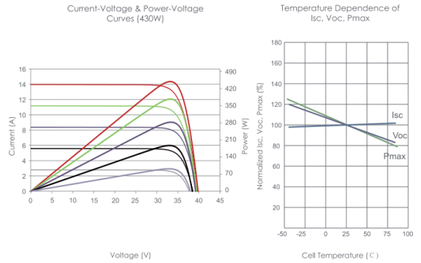




## Packaging Configuration

( Two pallets = One stack )

36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence







## Mechanical Characteristics

| | |
|---|---|
| Cell Type | N type Mono-crystalline |
| No. of cells | 108 (6×18) |
| Dimensions | 1762×1134×30mm (69.36×44.65×1.18 inch) |
| Weight | 22 kg (48.50 lbs) |
| Front Glass | 3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 Rated |
| Output Cables | TUV 1×4.0mm², (+): 400mm , (-): 200mm or Customized Length |

## SPECIFICATIONS

| Module Type | JKM425N-54HL4R-B | | JKM430N-54HL4R-B | | JKM435N-54HL4R-B | | JKM440N-54HL4R-B | | JKM445N-54HL4R-B | |
|---|---|---|---|---|---|---|---|---|---|---|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 425Wp | 320Wp | 430Wp | 323Wp | 435Wp | 327Wp | 440Wp | 331Wp | 445Wp | 335Wp |
| Maximum Power Voltage (Vmp) | 32.37V | 30.19V | 32.58V | 30.30V | 32.78V | 30.50V | 32.99V | 30.73V | 33.19V | 30.93V |
| Maximum Power Current (Imp) | 13.13A | 10.60A | 13.20A | 10.66A | 13.27V | 10.72A | 13.34A | 10.77A | 13.41A | 10.83A |
| Open-circuit Voltage (Voc) | 38.95V | 37.00V | 39.16V | 37.20V | 39.36V | 37.39V | 39.57V | 37.59V | 39.77V | 37.78V |
| Short-circuit Current (Isc) | 13.58A | 10.96A | 13.65A | 11.02A | 13.72A | 11.08A | 13.80A | 11.14A | 13.87A | 11.20A |
| Module Efficiency STC (%) | 21.27% | | 21.52% | | 21.77% | | 22.02% | | 22.27% | |
| Operating Temperature(℃) | -40℃~+85℃ | | | | | | | | | |
| Maximum system voltage | 1000VDC (IEC) | | | | | | | | | |
| Maximum series fuse rating | 25A | | | | | | | | | |
| Power tolerance | 0~+3% | | | | | | | | | |
| Temperature coefficients of Pmax | -0.29%/℃ | | | | | | | | | |
| Temperature coefficients of Voc | -0.25%/℃ | | | | | | | | | |
| Temperature coefficients of Isc | 0.045%/℃ | | | | | | | | | |
| Nominal operating cell temperature (NOCT) | 45±2℃ | | | | | | | | | |

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s



JKM425-445N-54HL4R-B-F2-EN

SMART GREEN
SOLAR · ROOFING · ELECTRIC
SMART GREEN
33 BROAD ST SUITE 500,
PROVIDENCE, RI 02903, USA
PH# : (774) 502-5948

| SYSTEM INFO |
|---|
| (13) JINKO SOLAR JKM425N-54HL4R-B |
| (13) ENPHASE IQ8PLUS -72-2-US (240V) |
| DC SYSTEM SIZE: 5.525 kWDC |
| AC SYSTEM SIZE: 3.770 kWAC |
| |
| METER: 24432762 |

| REVISIONS | | |
|---|---|---|
| DESCRIPTION | DATE | REV |
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PROJECT NAME & ADDRESS

PETER LUTZ
RESIDENCE
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EMAIL ID: PETERJAMESLUTZ@GMAIL.COM
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DATE: 8/29/2024

SHEET NAME
EQUIPMENT SPECIFICATIONS

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-11