

#### HISTORIC PRESERVATION COMMISSION

Isiah Leggett County Executive William Kirwan
Chairman

Date: August 16, 2018

#### **MEMORANDUM**

TO: Diane Schwartz Jones

Department of Permitting Services

FROM: Dan Bruechert

Historic Preservation Section

Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit: 846167: Rooftop solar installation

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **Approved** at the August 15, 2018 Historic Preservation Commission meeting.

The HPC staff has reviewed and stamped the attached construction drawings.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: Joan Marsh

Address: 7110 Sycamore Ave., Takoma Park

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Dan Bruechert at 301.563.3408 or dan.bruechert@montgomeryplanning.org to schedule a follow-up site visit.





May 2, 2018

Ipsun Power 600 New Hampshire Ave, NW 11th Floor Washington, DC, 20037

Subject: Structural Certification for Installation of Solar Panels

Job Number: 2018-01510 Client: Owen Philbin

Address: 7110 Sycamore Avenue, Takoma Park, MD 20912

Attn.: To Whom It May Concern

A field observation of the condition of the existing framing system was performed by an audit team from Ipsun Power.

From the field observation of the property, the existing roof structure was observed as follows:

The existing roof structure consists of:

• Composition Shingle over Roof Plywood is supported by 2x4 @ 24"o.c. SPF#2 at ARRAY 1. The top chords are sloped at approximately 25 degree and have a maximum projected horizontal span of 5 ft 11 in between load bearing supports.

#### Design Criteria:

- Applicable Codes = 2015 IBC/IRC, ASCE 7-10, and NDS-12
- Ground Snow Load = 30 psf; Roof Snow Load = 20.8 psf ARRAY 1
- Roof Dead Load = 6.6 psf ARRAY 1
- Basic Wind Speed = 115 mph Exposure Category C

As a result of the completed field observation and design checks:

 ARRAY 1: it is adequate to support the loading imposed by the installation of solar panels and modules. Therefore, no structural upgrades are required.

I certify that the capacity of the structural roof framing that directly supports the additional gravity loading due to the solar panel supports and modules had been reviewed and determined to meet or exceed the requirements without structural upgrade in accordance with the 2015 IBC.

If you have any questions on the above, do not hesitate to call.

Prepared By:

PZSE, Inc. - Structural Engineers

Roseville, CA







PROFESSIONAL CERTIFICATION I HERBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND

LICENSE NO. 43542 , EXPIRATION DATE 5/21/2014

# OWEN PHILBIN RESIDENCE: 7110 SYCAMORE AVE, TAKOMA PARK, MD 20912 4.8 KW DC ROOF MOUNTED PHOTOVOLTAIC SYSTEM

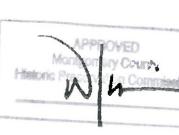
01 NO 16 NO'S - TRINA SOLAR TSM-DD05A 300W MODULE EQUIPMENT SUMMARY

- SOLAR EDGE SE5000H-US INVERTERS WITH 16 NO'S OF P320 DC POWER OPTIMIZERS

### SHEET INDEX:

COVER SHEET

E001 E005 E003 SYSTEM LABELING DETAILS E002 BOQ & SYSTEM DETAILS Z001 G002 E004 MODULE DATA SHEET Z004 ATTACHMENT LAYOUT & DETAILS Z003 STRING LAYOUT Z002 PV LAYOUT ELECTRICAL THREE LINE DIAGRAN PROPERTY MAP & PROPERTY LAYOUT POWER OPTIMIZER DATA SHEET GENERAL NOTES



# APPLICABLE CODES AND STANDARDS:

S001 E006

S002 ATTACHMENT DATA SHEET

ATTACHMENT DATA SHEET

INVERTER DATA SHEET

BUILDING: IBC 2012, DCMR, 12-2013, ASCE 7-10, NDS2012

**ELECTRICAL: NEC 2011** 

FIRE: NFPA 2012

#### OWNER

OWEN PHILBIN 7110 SYCAMORE AVE, TAKOMA PARK, MD 20912

#### INSTALLER:

**600 NEW HAMPSHIRE AVE** WASHINGTON, DC 20037 NW - 11TH FLOOR, **IPSUNPOWER** 



#### VICINITY MAP



SINGLE FAMILY RESIDENCE

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WNER: WEN PHILBIN 110 SYCAMORE AVE, AKOMA PARK, MD 20912

INSTALLER: INSTALLER:
IPSUNPOWER
600 NEW HAMPSHIRE AVE
NW – 11TH FLOOR,
WASHINGTON, DC 20037

# ELECTRICAL CONSTRUCTION GENERAL NOTES:

1 ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC (NATIONAL ELECTRIC CODE), MFDA ASSOCIATION), AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS (NATIONAL FIRE PROTECTION

NO HOT WORK IS AUTHORIZED ALL HOT WORK

3 WORK HUDER THE CONTROCT SEAL INCLUSE BUT NOT BE UNITED TO FIRMSHAND INSTALLING AND CONNECTION OF ALL ELECTRICAL EQUIPMENT AND TESTING OF ALL STEEMS AND SUB-PAYTEMS ANTIME THE CONTROCT ANY EMPORES OMESION, OR UNICERTAINTY SHALL BE BROUGHT TO THE ATTENTION OF THE PREME CONTRACTOR AND OR CONNECTION TO THE ATTENTION OF THE PREME CONTRACTOR AND OR CONNECTION TO THE ATTENTION OF THE PREME CONTRACTOR AND OR CONNECTION.

4 COORDINATE ALL WORK WITH ARCHITECTURAL MECHAWICAL AND STRUCTURAL DRAWNIGS. INSTALL ALL WORK TO CLEAR NEW AND EXSTING ARCHITECTURAL AND STRUCTURAL MEDIBERS. NO ITEM SUCH AS RIPE, DUCT, ETC. SHALL BE INCONTACT WITH ARY ELECTRICAL EQUIPMENT.

S CONTRACTOR SHALL ASSIME SOE: AND COMPLETE RESPONSIBILITY FOR ARB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF PROJECT INCLIDION SAFETY OF ALL PERSONS AND PROPERTY AND SECURITY OF THE WORKSITE. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY NOT BE LIMITED TO NORMAL WORKING HOUSE. Y AND

6 Do not figure dramacs. Larger scale dramans have precedence over small scale dramacs. Specifications have precedence over dramacs. Notify the prime contraction manipately after discovery of any discrepancy betimeen dramines. Specifications or field conditions.

NOTIFY THE PRIME CONTRACTOR OR OWNER IMMEDIATELY AFTER DISCOVERING ANY HAZARDOUS MATERIAL

B DRAWNGS ARE DAGRAMATIC AND HOICATE GENERAL ARRANGEMENT DE SYSTEMS AND WORK INCLUDED. VERIFY THE EXACT LOCATIONS AND CONDITIONS OF ALL EDUM-MENT REQUIRING ELECTRICAL CONNECTIONS PROOF TO ANY WORK. LOCATIONS FOR EQUIPMENT SHALL BE TWEEN FROM THE OTHER SHEETS WHERE THEY OCCUR. EXTEND WARAFFROM ALL JUNCTION BOXES CONTROL PANELS PLAIPS RECEPTACLES, SMITCHES ETC AND MAKE ALL FINAL CONNECTIONS TO EQUIPMENT AS REQUIRED.

THE INTENT OF THESE DRAWNIGS IS FOR A COMPLETE ELECTRICAL SYSTEM. ANY ERRORS OR UNCERTAINTY SHALL BE BROUGHT TO THE ATTENTION. THE PRIME CONTRACTOR AND ENGINEER AS SOOM AS FOUND.

THE COMPLETE ELECTRICAL INSTALLATION SHALL BY TESTED AS A COMPLETE WORKING SYSTEM

RESTORE ALL DAMAGES RESULTING FROM WORK AND LEAVE PREMISES IN CLEAN CONDITION VAKEN FINISHED WITH WORK

12. ALL TYPES OF SYMTCHES. RECEPTACLES WALL PLATES AND LIGHTING FIXTURES SWALL BE AS APPROVED BY PRIME CONTRACTOR MATERIALS AND COLOR AND LOCATIONS. SUBMIT CATALOG CUTS OR SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT VERIF

13 ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING (E)

14 REMOVE ALL HOLICATED ITEMS REMOVE ALL EXPOSED CONDUITS REMOVE WIRES TO NEAREST CONCEALED JUNCTION BOX OR PANEL PLACE EXISTING JUNUSED CONCEALED CONDUITS NOT EXPOSED BY CONSTRUCTION ABANDON IN

15 ALL BOUPMENT SHALL BE SECURED IN ACCORDANCE WITH GOVERNING SEISARC REGULATIONS CONDUITS REQUIRED BY CEC (CALIFORNIA ELECTRIC CODE) PROVIDE EXPANSION AND DEFLECTION FITTINGS IN

FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED SURFACES. SEE DETAIL DIES

17 PROVIDE GROUND ROD GROUNDING ELECTRODE AND BONDING FOR ALL SERVICE ENTRANCE EQUIPMENT, BUILDING STRUCTURAL STEEL, COLD WATER PPE AND ITAMSFORMER PER CEC (CAUFORNIA ELECTRIC CODE) 8 MIN APART

18. ALL NEW CIRCLAT BREAKER SHALL BE RATED 10 000 AIC OR HIGHER UNC

18 ALL CONDUITS SHALL BE EMT. INTERMEDIATE METAL CONDUIT, OR FIGID STEEL. MINIMUM SIZE SHALL BE 12" FITTINGS SHALL BE STEEL. ALL CONDUIT BOXES AND ELECTRICAL

DO NOT USE THE WORKING SPACE WITHIN ANY EXIT SKICH OR ASSOCIATED JUNCTION BOX FOR ANY OTHER CIRCUIT

PROVIDE EXPANSION AND DEFLECTION FITTINGS IN CONDUITS CROSSING BUILDING EXPANSION AND SEISMIC SINIOR SEE DETAIL E'ES

PROVIDE JUNCTION AND/OR PULL BOXES WHEN NECESSARY OR REQUIRED BY CEC

23 ALL CONDUCTORS SHALL BE COPPER THAY \$12 AWS MINIMUM. UNLESS IN A WET LOCATION IN WHICH CASE THAW SHALL BE USED

24. INSTALL GREEN INSULATED GROUND WIRE IN ALL CIRCUITS LARGER UNLESS IMPROATED OTHERWISE SIZE PER NEC REQUIREMENTS OR THE AS PHASE CONDUCTORS

25 ALL NEW WIRING CONDUIT, AND JUNCTION CONDUIT ON OLD WALLS AND CERLINGS RUN ALL. A BOXES SHALL BE CONCEALED WITHIN NEW WALLS, CEILINGS OR FLOOR SPACES SURFACE RACEWAY TIGHT TO STRUCTURE PARALLEL TO BUILDING LINES SURFACE MOUNT

29 PAINT ALL EXPOSED ELECTRICAL CONDUITS AND BOXES, PATCH AND PAINT ALL SCUFF MARKS AND/OR DAMAGE SELECT NEW PAINT COLOR TO MATCH EXISTING PAINT COLOR RESULTING FROM CONSTRUCTION

NO FOREIGN EQUIPMENT SHALL BE LOCATED WITHIN THE SPACE ABOVE OR BELOW ELECTRIC PANELS

PROVIDE SIGNAGE ON ALL ELECTRIC PANELS TO KEEP THE SPACE 36" IN FRONT OF THE PANELS FREE OF OBSTRUCTIONS

PROVIDE WARNING LABEL ON ALL PAHELS "WARNING ELECTRICAL ARC FLASH HAZARD WHEN'T REDURRED, FAILURE TO COMPLY CAN RESULT, IN INJURY OR DEATH REFER TO NEPA TOE! PERSONAL PROTECTION

UPDATE PANEL BOARD DIRECTORY AS CIRCUITS ARE INSTALLED. PREPARE NEW TYPE WRITTEN PANEL SCHEDULES

ALL EXTERIOR EQUIPMENT SHALL BE IN WEATHERPROOF (NEMA 3R) ENCLOSURES. ALL NEW WARNING SHALL BE IN COMDUTI TABLE FOR SUN EXPOSURE AND WET LOCATIONS. FIELD APPLIED CONTING ARE NOT ACCEPTABLE.

DC SOLAR POWER SHALL BE NEGATIVELY GROUNDED

ALL MARKING SHALL BE PER CODE REQUIREMENTS

54

34. INVERTERS MUST COMPLY WITH UL 1741 TO PREVENT POWER ON TO THE GRID IF THE GRID IS OFF-LINE. ON POWER FAILURE THE INVERTER SHALL PUT NOT

36 NOTHING IN THESE PLANS SHALL BE CONSTRUED TO CONTRADICT NEC, ULIOR LOCAL CODES

ALL SYSTEM COMPONENTS (MICIDILLES AND INVERTERS ETC) SHALL BE UL LISTED

37 MOUNT TO ROOF USING UL APPROVED MOUNTING HARDWARE HARDWARE EVERY 4" ON CENTER UNLESS OTHERWISE NOTED FOLLOWING MANUFACTURERS DIRECTIONS MOUNTING

SE MARK ALL DE CONDUIT "CAUTION SOURE ELECTRIC SYSTEM CONNECTED" MARK ALL DISCONNECTS INCLUDING DISCONNECTS WITH CAUTION SOURE ELECTRIC DISCONNECT MARK THE MAIN SERVICE MATERIAL CAUTION SOURCE MARK THE MAIN SERVICE MATERIAL CAUTION SOURCE MATERIAL CONTROLLED MARK THE MAIN SERVICE MATERIAL CONTROLLED MATER

MARK THE NEC REQUIRED CLEAR SPACE ON THE FLOOR IN FRONT OF ALL DEVICES BEING INSTALLED

SUPPORT ALL ROOF MOUNTED CONDUIT WITH FOAM SLEEPERS. WHUL APPROVED SYSTEM

41 OBTAIN THE BEST INFORMATION ON UNDERGROUND UTILITIES IN AREAS BEING TRENCHED LOCATING SERVICE BEFORE DIGGING USE DIG ALERT OR OTHER

42 SOLAR PANELS SHALL NOT BE INSTALLED OVER ANY PLUMBING OR MECHANICAL VENTS EXHAUSTS OR CHMINEYS

43 REMOVAL OF INVERTER METER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING GROWNERS ELECTRODE CONDUCTOR AND THE PHOTOVOLITAIC SOURCE AND/OR OUTPUT CIRCUIT GROUNDED CONDUCTOR

44 AN PV MODULES AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED FROM. ANY PHYSICAL DAMAGE. AND ACCESS UNQUALIFIED PERSONS.

## STORM WATER PREVENTION NOTES

STORM WATER POLLUTION PREVENTION DEVICES AND PRACTICES SHALL BE INSTALLED AND OR INSTITUTED AS NECESSARY TO EXSURE COMPLIANCE WITH THIS PROJECT. ALL SUCH DEVICES AND PRACTICES SHALL BE MANTAINED. INSPECTED ANDOR MONTORED TO EXSURE ADEQUACY AND PROPER FUNCTION THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT WITH THE CITY WATER QUALITY STANDARDS CONTAINED IN LOCAL REGULATIONS, FEDERAL REGULATIONS AND ANY EROSION CONTROL PLAN ASSOCIATED

TO THE FOL COMPLIANCE WITH THE VALTER QUALITY STANDARDS AND ANY EROSION CONTROL PLAN ASSOCIATED WITH THIS PROJECT INCLUDES BUT IS NOT LIMITED

SWALES AREA DRAINS NATURAL DRAINAGE COURSES OR WIND ALL POLLUTANTS SHALL BE RETAINED ON SITE UNTIL PROPERLY DISPOSED OF AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW

2 STOCKPILES OF CONSTRUCTION-RELATED MATERIALS SHALL BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY FORCES OF WIND

DISPERSAL BY WIND TRASH AND CONSTRUCTION SOLID WASTES SHALL BE DEPOSITED INTO COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND

## VISIBILITY FROM ADJACENT PROPERTY

THE SOLAR PANELS MAY BE VIS DUACENT-PROPERTIES PAINT ALL STRUCTURAL ELEMENTS TO MATCH THE EXISTING ROOFING

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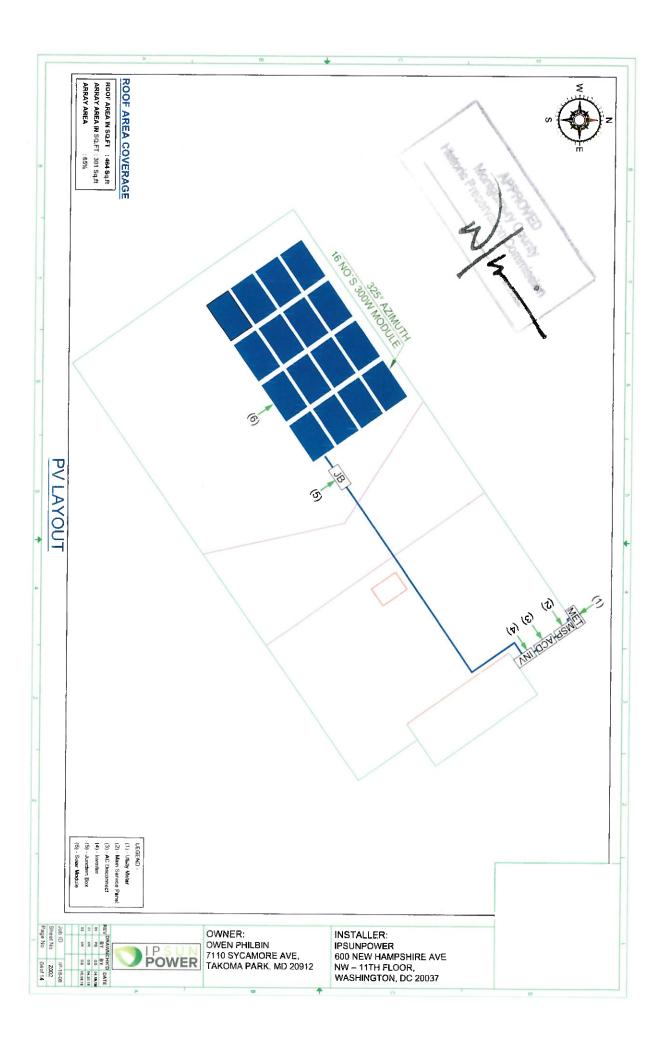
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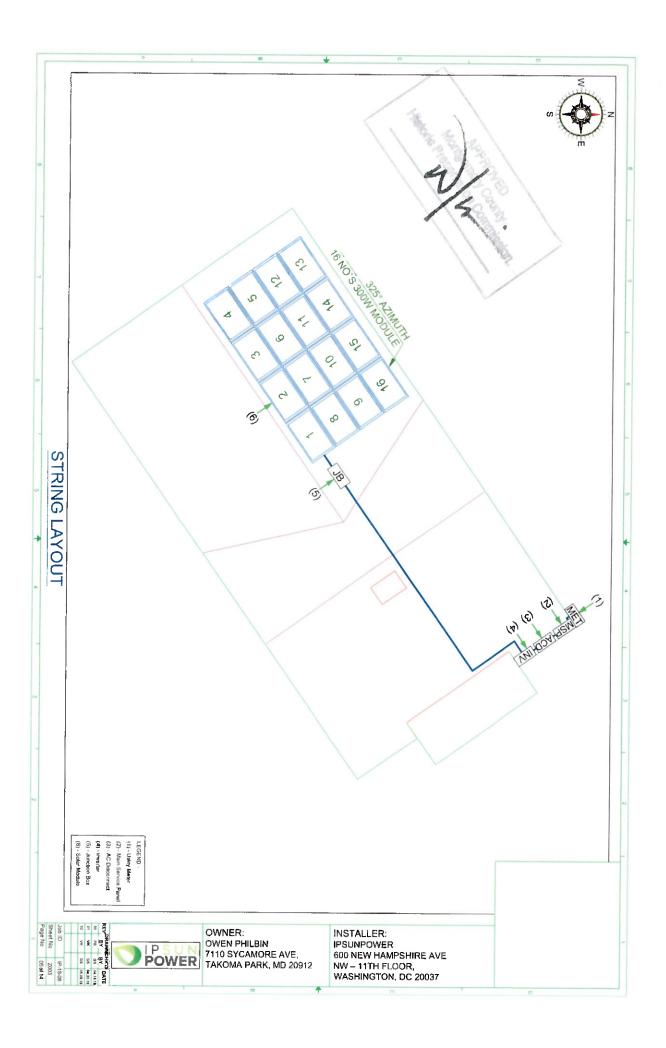
INSTALLER: IPSUNPOWER 600 NEW HAMPSHIRE AVE NW - 11TH FLOOR, WASHINGTON, DC 20037

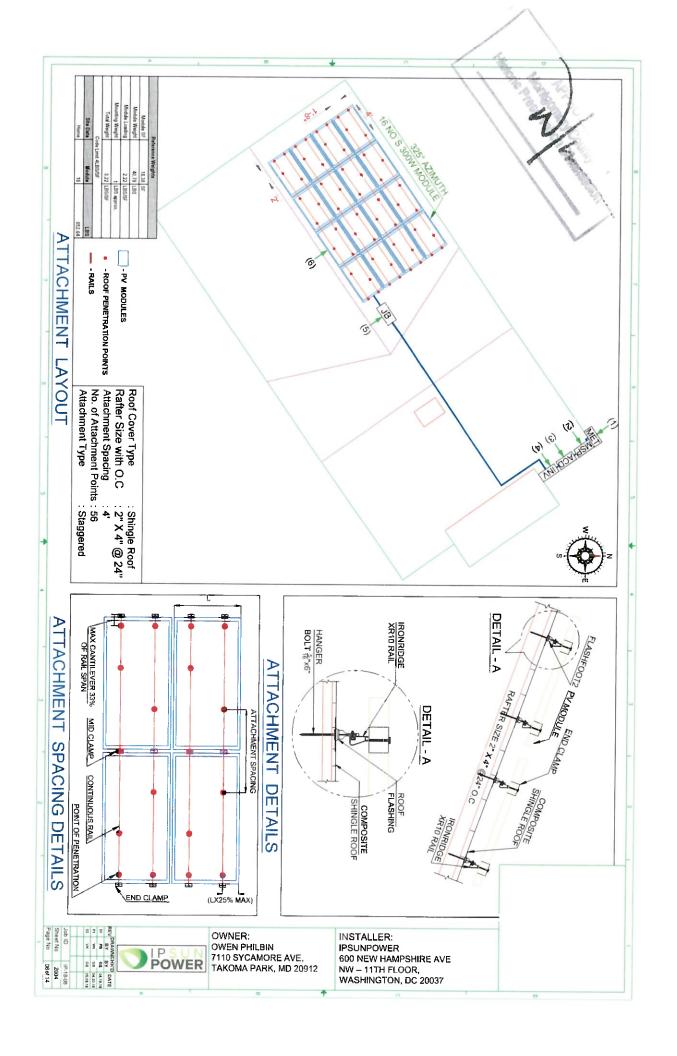
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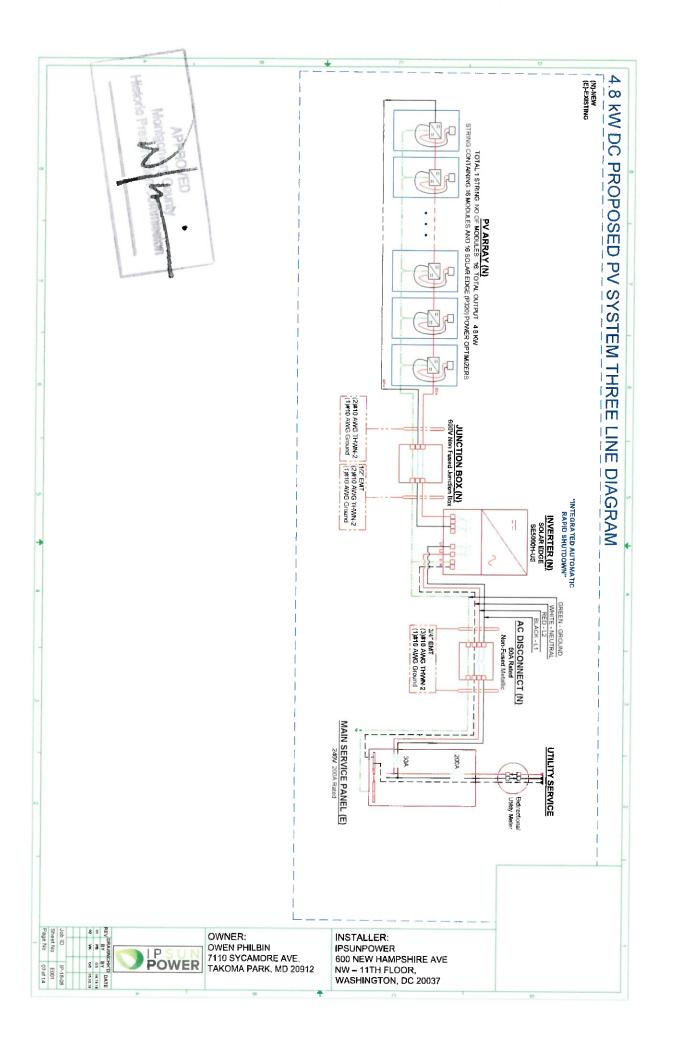
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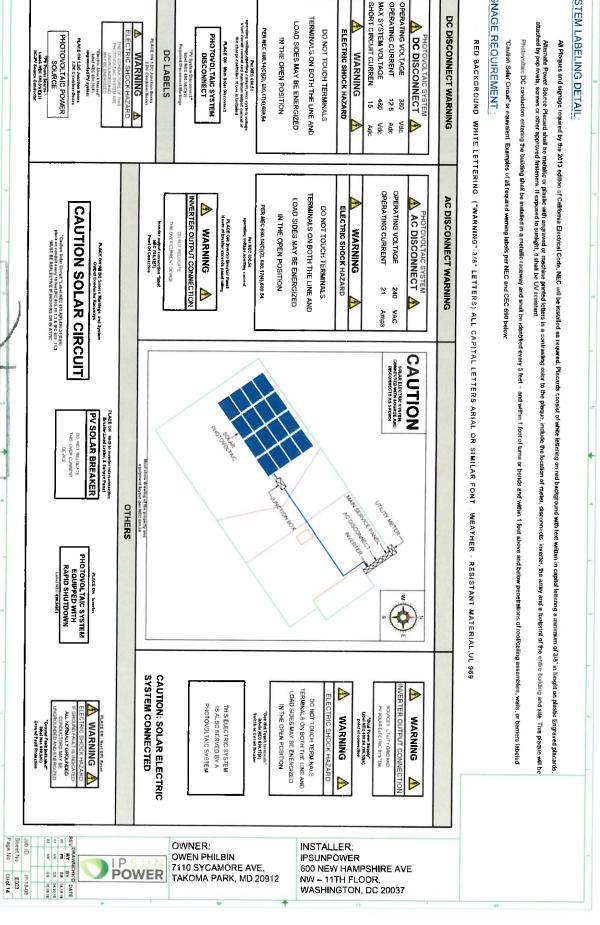




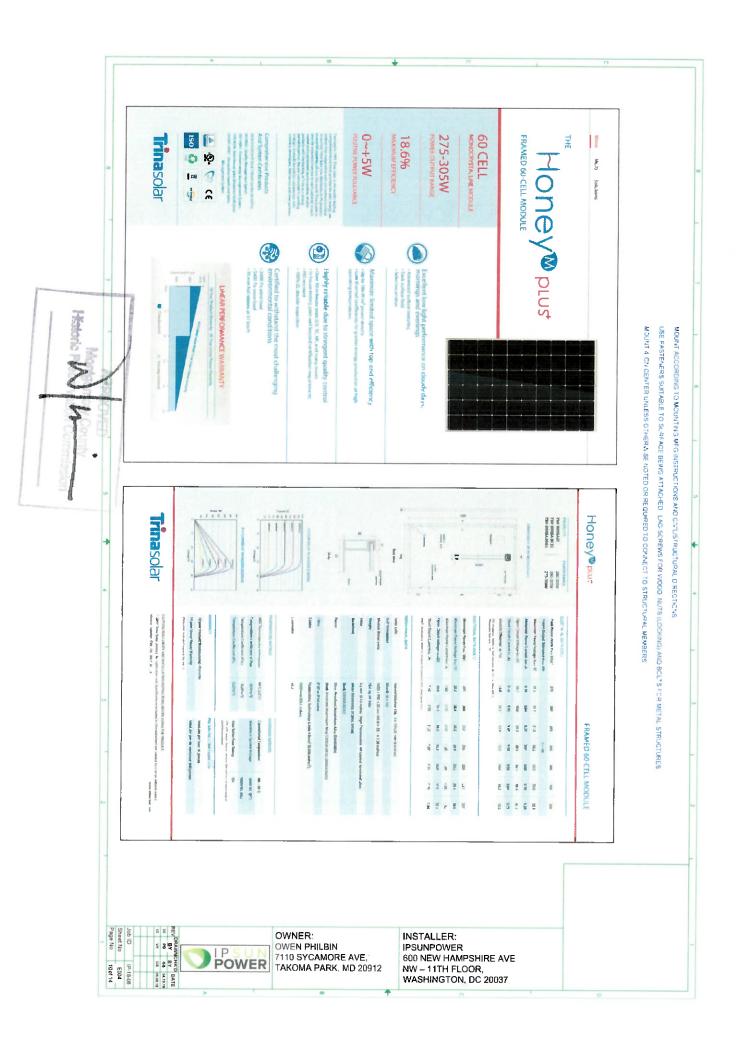
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### SYSTEM LABELING DETAIL













MOUNT ACCORDING TO KIDBNITKS MFG INSTRUCTIONS AND CIVILISTRUCTURAL DIRECTIONS

USE FASTEMERS SUITABLE TO SURFACE BEING ATTACHED. LAG-SCREWS FOR WOOD HUTS ILOCK NOTAND BOLTS FOR METAL STRUCTURES

## SolarEdge Power Optimizer Module Add-On for North America

OPTIMIZER MODEL	P320 for high-power	P370 (for higher power fid and 27-cost	9400 9-72.5-3-44	P405 (for the film modules)	PS05 for legens	
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OWNER: OWEN PHILBIN 7110 SYCAMORE AVE, TAKOMA PARK, MD 20912

INSTALLER: **IPSUNPOWER** 600 NEW HAMPSHIRE AVE NW - 11TH FLOOR, WASHINGTON, DC 20037

