

HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive

Robert Sutton
Chairman

Date: December 2, 2024

MEMORANDUM

TO: Rabbiah Sabbakhan

Department of Permitting Services

FROM: Laura DiPasquale

Historic Preservation Section

Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit #1093679 – Solar panel installation

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **Approved** by HPC staff.

The HPC staff has reviewed and stamped the attached submission materials.

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: Yuri Zelinsky; Tina Crouse, Agent. Address: 7212 Spruce Avenue, 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 Laura DiPasquale at 301-495-2167 or laura.dipasquale@montgomeryplanning.org to schedule a follow-up site visit.





HAWP #:	at:	
submitted on:		
l has been reviev	wed and de	etermined that the proposal fits into the following category/categories:

Repair or replacement of a masonry foundation with new masonry materials that closely match the original in appearance;

Installation of vents or venting pipes in locations not visible from the public right-of-way;

New gutters and downspouts;

Removal of vinyl, aluminum, asbestos, or other artificial siding when the original siding is to be repaired and/or replaced in kind;

Removal of accessory buildings that are not original to the site or non-historic construction;

Repair or replacement of missing or deteriorated architectural details such as trim or other millwork, stairs or stoops, porch decking or ceilings, columns, railings, balusters, brackets shutters, etc., with new materials that match the old in design, texture, visual characteristics, and, where possible materials, so long as the applicant is able to provide one extant example, photographic evidence, or physical evidence that serves as the basis for the work proposed;

Construction of wooden decks that are at the rear of a structure and are not visible from a public right-of-way;

Roof replacement with -compatible roofing materials, or with architectural shingles replacing 3-Tab asphalt shingles;

Installation of storm windows or doors that are compatible with the historic resource or district;

Repair, replacement or installation of foundation-level doors, windows, window wells, and areaways, or foundation vents, venting pipes, or exterior grills that do not alter the character-defining features and/or the historic character of the resource;

Construction of fences that are compatible with the historic site or district in material, height, location, and design; Fence is lower than 48" in front of rear wall plane;

Construction of walkways, parking pads, patios, driveways, or other paved areas that are not visible from a public right-of-way and measure no more than 150 square feet in size;

Replacement of existing walkways, parking pads, patios, driveways, or other paved areas with materials that are compatible with the visual character of the historic site and district and that are no greater than the dimensions of the existing hardscape;

Construction of small accessory buildings no larger than 250 square feet in size that are not visible from the public right-of-way;

Installations of skylights on the rear of a structure that will not be visible from the public right-of-way, and would not remove or alter character-defining roof materials;

Installation of solar panels and arrays in locations that are not readily visible from the public right-of-way or that are designed so as to have a minimal impact on the historic resource or the historic district (e.g., systems that are ground-mounted in areas other than the front or side yard of a corner lot, located on accessory or outbuildings, on non-historic additions, or on rear facing roof planes);

Installation of car charging stations in any location on a property or in the right-of-way;

Installation of satellite dishes;

Removal of trees greater than 6" in diameter (d.b.h.) that are dead, dying, or present an immediate hazard.

Removal of trees greater than 6" in diameter (d.b.h.) in the rear of the property that will not impact the overall tree canopy of the surrounding district or historic site;

Replacement tree required as a condition; and, Other minor alterations that may be required by the Department of Permitting Services post-Commission approval that would have no material effect on the historic character of the property.

Staff finds the proposal complies with Chapter 24A, the Secretary of the Interior's Standards for Rehabilitation, and any additional requisite guidance. Under the authority of COMCOR No. 24A.04.01, this HAWP is approved to approve on ______. The approval memo and stamped drawings follow.





APPLICATION FOR HISTORIC AREA WORK PERMIT HISTORIC PRESERVATION COMMISSION

301.563.3	3400
APPLICANT:	
Name: Yuri Zelinsky	E-mail: ybz@verizon.net
Address: 7212 Spruce Avenue	city: Takoma Park zip: 20912
Daytime Phone: 301-537-8763	Tax Account No.:
AGENT/CONTACT (if applicable):	
Name: Tina Crouse	E-mail: tcrouse@solarenergyworld.com
Address: 14880 Sweitzer Lane	_{City:} Laurel z _{ip:} 20707
Daytime Phone: 410-579-2009	Contractor Registration No.: 127353
LOCATION OF BUILDING/PREMISE: MIHP # of His	
Is the Property Located within an Historic District?	Takoma Park
Is there an Historic Preservation/Land Trust/Environmap of the easement, and documentation from the	nmental Easement on the Property? If YES, include a Easement Holder supporting this application.
Are other Planning and/or Hearing Examiner Appro (Conditional Use, Variance, Record Plat, etc.?) If YES supplemental information.	
Building Number: 7212 Street: 5	Spruce Avenue
Town/City: Takoma Park Nearest (Cross Street: Tulip Avenue
	on: 0025 Parcel: 0000
TYPE OF WORK PROPOSED: See the checklist o	n Page 4 to verify that all supporting items
for proposed work are submitted with this app	
be accepted for review. Check all that apply:	Shed/Garage/Accessory Structure
□ New Construction □ Deck/Porch	✓ Solar
Addition Fence	Tree removal/planting
Demolition Hardscape/La	
Grading/Excavation Roof	Other:

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

Property Built in 1913

Description of Work Proposed: Please give an overview of the work to be undertaken:

- -Install (10) roof mounted solar panels on detached structure
- -Micro Inverters to be placed under each panel
- -Utility disconnect to be installed next to utility meter along with electrical combiner box for micro inverters

Galvanized steel conduit to run from equipment to the roof and ridge line to the Solar Array

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:54 am, Dec 02, 2024

APPROVED

Montgomery County

Historic Preservation Commission

Rame La Ma



Front of Home





Utility Meter after Installation

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:54 am, Dec 02, 2024

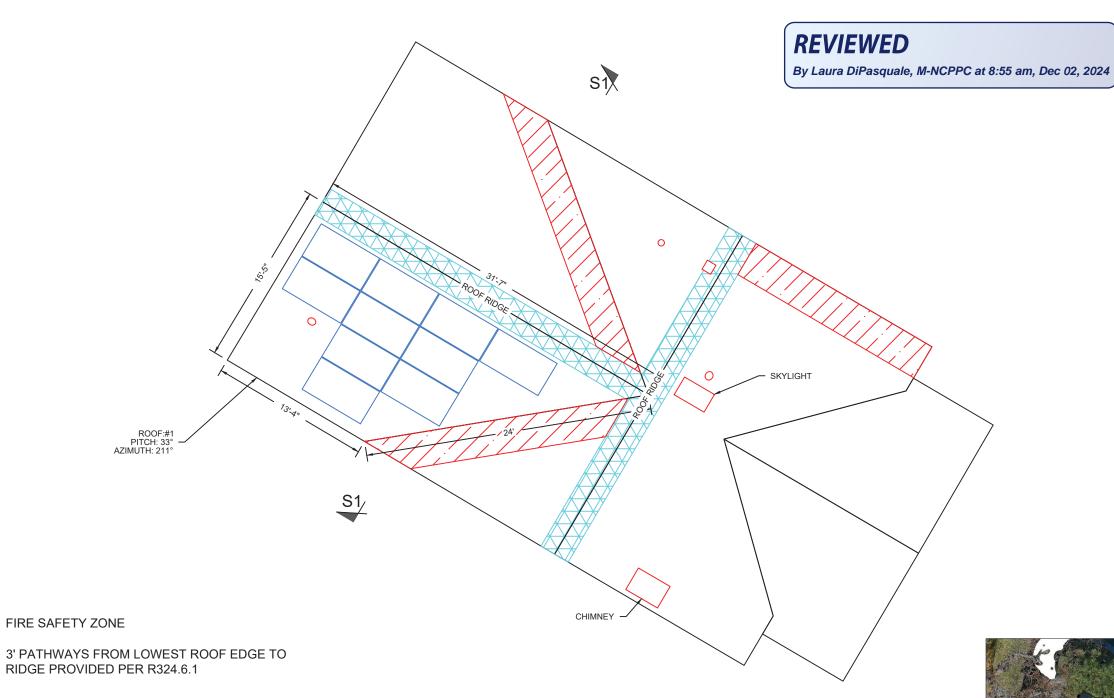
APPROVED

Montgomery County

Historic Preservation Commission

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APPROVED Montgomery County Historic Preservation Commission



Solar Energy World LLC. 14880 Sweitzer Lane Laurel, MD 20707

This drawing is the property of Solar Energy World Inc. The information herein contained shall be used for the sole benefit of Solar Energy World. It shall not be disclosed to others outside the recipients organization, in whole or in part, without the written permission of Solar Energy World, except in connection with the sole and use of the respective Solar Energy equipment.

International Residential Code (IRC) 2018

National Electrical Code (NEC) 2017

115 MPH

(10) LONGi LR5-54HABB-400M

30 PSF

(10) IQ8+-72-M-US

2.900 kW 4.000 kW

Yuri Zelinsky 7212 Spruce Avenue Takoma Park, MD 20912

None

Montgomery County

Pepco

Solar Panel Layout

AMP November 15, 2024

AS NOTED MD22231

1'6" PATHWAYS PROVIDED ON BOTH SIDES OF RIDGE PER R324.6.2

PLAN VIEW TOTAL ROOF AREA: 2014 SQFT

SOLAR ARRAY AREA: 210.20 SQFT

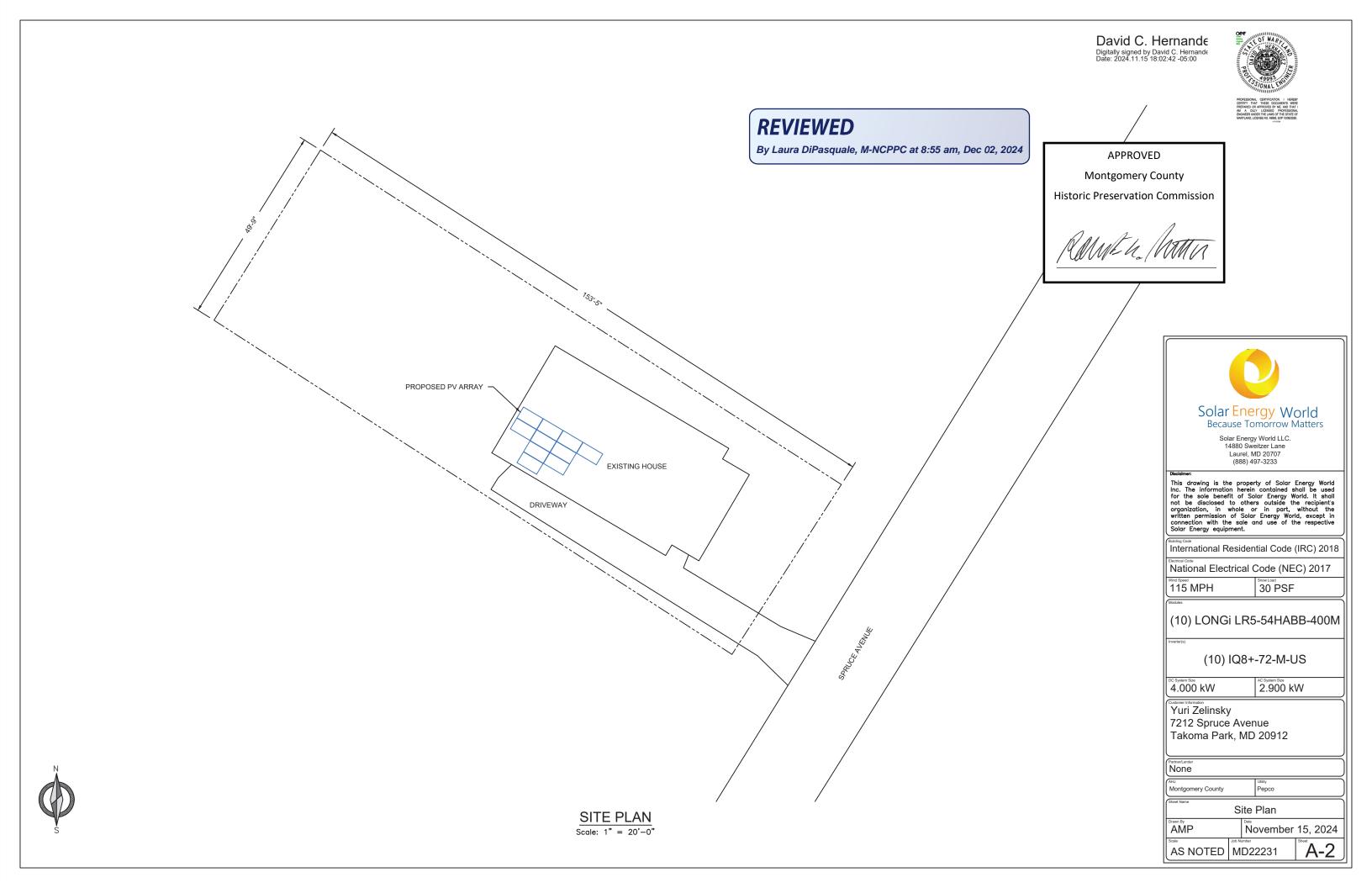
THE SOLAR ARRAY IS 10.4% OF THE PLAN VIEW TOTAL ROOF AREA

NOTES:

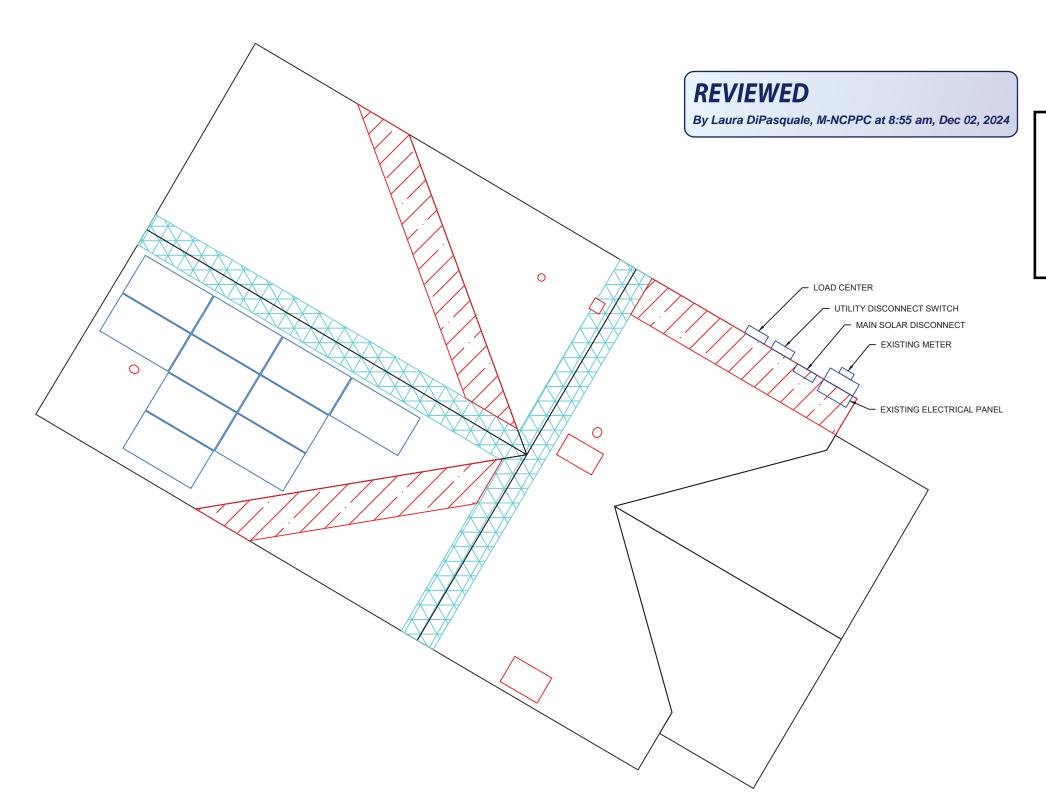
- 1. THE SYSTEM SHALL INCLUDE (10) LONGI LR5-54HABB-400M.
- 2. SNAPNRACK TOPSPEED WILL BE INSTALLED IN ACCORDANCE WITH SNAPNRACK INSTALLATION MANUAL.
- 3. REFER TO STRUCTURAL DRAWING FOR SECTIONS MARKED AND ADDITIONAL NOTES.

SOLAR PANEL LAYOUT

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







APPROVED **Montgomery County Historic Preservation Commission**

Solar Energy World Because Tomorrow Matters

Solar Energy World LLC. 14880 Sweitzer Lane Laurel, MD 20707 (888) 497-3233

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(10) IQ8+-72-M-US

2.900 kW 4.000 kW

Yuri Zelinsky 7212 Spruce Avenue Takoma Park, MD 20912

None None

Montgomery County

Pepco

Equipment Location Plan

AMP

November 15, 2024

AS NOTED MD22231

EQUIPMENT LOCATION PLAN



EQUIPMENT LOCATION PLAN IS APPROXIMATE, EXACT LOCATION TO BE VERIFIED WITH INSTALLATION CREW AND HOME OWNER AT THE TIME OF INSTALLATION.



By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

APPROVED

Montgomery County

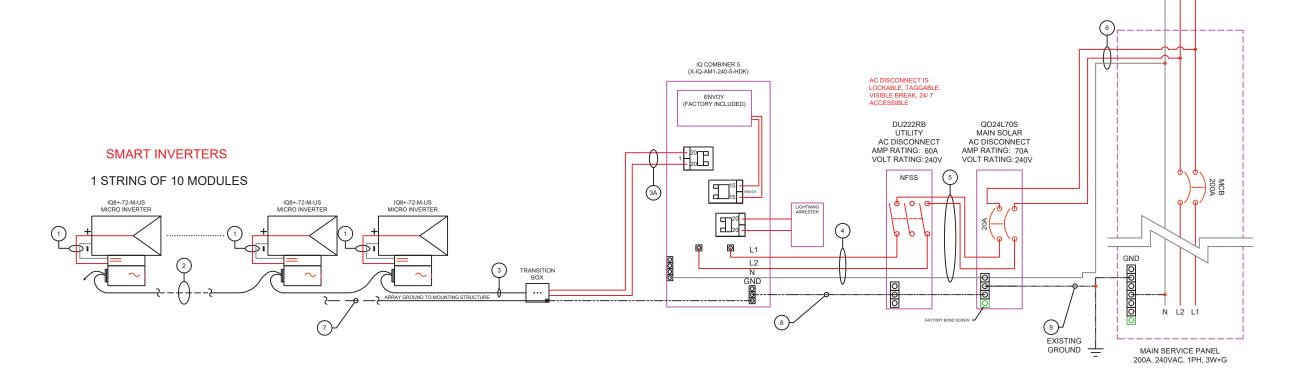
Historic Preservation Commission

Rameh, Man

UTILITY BI-DIRECTIONAL ELECTRIC METER

M

METER IS RATED TO



MODULE SPE	ECIFICATIONS
MODEL NUMBER	LR5-54HABB-400N
PEAK POWER	400 W
RATED VOLTAGE (Vmpp)	30.94 \
RATED CURRENT (Imp)	12.93 A
OPEN CIRCUIT VOLTAGE (Voc)	37.05 \
SHORT CIRCUIT CURRENT (Isc)	13.72 A
MAXIMUM SYSTEM VOLTAGE	1000VDC
INVERTER SP	PECIFICATIONS
MODEL NUMBER	IQ8PLUS-72-M-US
MAXIMUM DC VOLTAGE	60 V
MAXIMUM POWER OUTPUT	290 W
NOMINAL AC VOLTAGE	240 VAC
MAXIMUM AC CURRENT	1.21 A
CEC EFFICIENCY	97.0%
ARRAY	DETAILS
NO. OF MODULES PER STRING	1
NO. OF STRINGS	
ARRAY WATTS AT STC	400

3-LINE DIAGRAM

	WIRE/CONDUIT SCHEDULE ARRAY					
TAG	DESCRIPTION	WIRE SIZE/TYPE	NOTES			
1	Panel to Micro Inverter	PV Wire (Factory Made)	INTEGRATED			
2	Micro Inverter to Micro Inverter	Pre-Manufactured Cable				
3	Micro Inverter to Transition Box	Pre-Manufactured Cable				
3A	Transition Box to Load Center	#10 THHN/THWN-2	INTEGRATED			
4	Load Center to AC Disconnect	#10 Cu THHN/THWN-2				
5	AC Disconnect to AC Disconnect	#10 Cu THHN/THWN-2				
6	AC Disconnect to Interconnection Point	#6 Cu THHN/THWN-2				
7	Equipment Grounding Conductor	#8 Cu Bare Copper Wire				
8	Equipment Grounding Conductor	#8 Cu THHN/THWN-2				
9	Grounding Electrode Conductor	#6 Cu				

GENERAL ELECTRIC NOTES: NEC2017

- 1. EQUIPMENT USED SHALL BE NEW, UNLESS OTHERWISE NOTED.
- 2. EQUIPMENT USED SHALL BE UL LISTED, UNLESS OTHERWISE NOTED.
- EQUIPMENT SHALL BE INSTALLED PROVIDING ADEQUATE PHYSICAL WORKING SPACE AROUND THE EQUIPMENT AND SHALL COMPLY WITH NEC.
- COPPER CONDUCTORS SHALL BE USED AND SHALL HAVE AN INSULATION RATING OF 600V, 90°C, UNLESS OTHERWISE NOTED
- 5. CONDUCTORS SHALL BE SIZED IN ACCORDANCE TO THE NEC. CONDUCTORS AMPACITY SHALL BE
- DE-RATED FOR TEMPERATURE INCREASE, CONDUIT FILL AND VOLTAGE DROP.

 6. ALL CONDUCTORS, EXCEPT PV WIRE SHALL BE INSTALLED IN APPROVED CONDUITS OR RACEWAY.

 CONDUITS SHALL BE ADEQUATELY SUPPORTED AS PER NEC.
- 7. AC DISCONNECT SHOWN IS REQUIRED IF THE UTILITY REQUIRES VISIBLE-BLADE SWITCH.
- 8. EXPOSED NON-CURRENT CARRYING METAL PARTS SHALL BE GROUNDED AS PER NEC.
- 9. LINE SIDE INTER-CONNECTION SHALL COMPLY WITH NEC.
- 10. SMS MONITORING SYSTEM AND IT'S CONNECTION SHOWN IS OPTIONAL. IF USED, REFER TO SMS INSTALLATION MANUAL FOR WIRING METHODS AND OPERATION PROCEDURE.
- 11. ASHRAE FUNDAMENTAL OUTDOOR DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE U.S. (PHOENIX, AZ OR PALM SPRINGS, CA)
- 12. FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN ROOF MOUNTED SUNLIGHT CONDUIT USING THE OUTDOOR TEMPERATURE OF 47°C
- 12.1. 10AWG CONDUCTOR ARE GENERALLY ACCEPTABLE FOR MODULES WITH AN Isc OF 9.6 AMPS WITH A 15 AMP FUSE.
 WIRE SIZING FOR OCPD

EX (Isc *(1.25)(1.25)(# OF STRINGS IN PARALLEL) = WIRE AMPACITY OR USING NEC TABLE 690.8



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International Residential Code (IRC) 2018

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30 PSF

115 MPH

(10) LONGi LR5-54HABB-400M

Inverter(s

(10) IQ8+-72-M-US

4.000 kW 2.900 kW

Yuri Zelinsky 7212 Spruce Avenue Takoma Park, MD 20912

PertoerLender
None

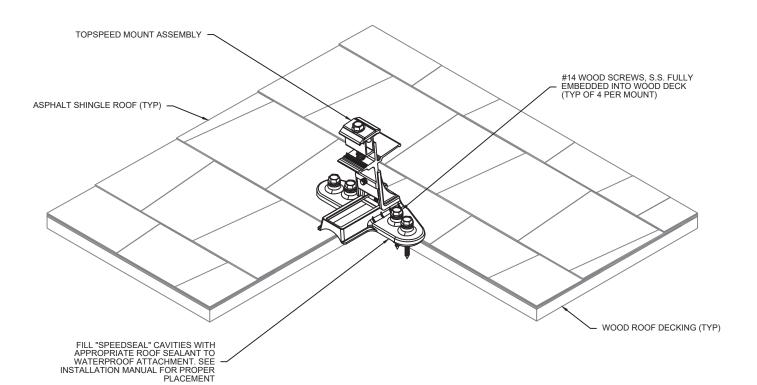
AHJ
Montgomery County
Pepco

Sheet Name
Electrical 3-Line Diagram
Drawn By
AMP
Date
November 15, 2024

AC NOTED MD000004 Sheet

AS NOTED MD22231





REVIEWED

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

APPROVED Montgomery County Historic Preservation Commission





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2.900 kW 4.000 kW

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None

Montgomery County

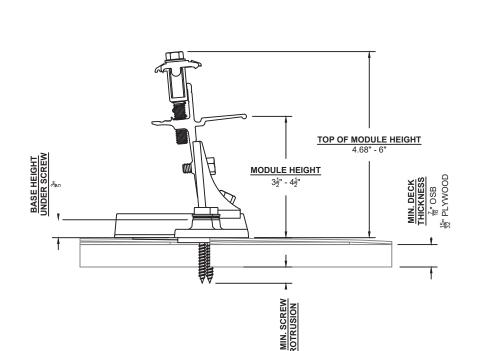
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S-1

Structural Attachment Details

AMP November 15, 2024

AS NOTED MD22231



STRUCTURAL ATTACHMENT DETAIL

S1 NOTES:

1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF INTERNATIONAL RESIDENTIAL CODE (IRC 2018), LOADING CODE (ASCE 7-16), WOOD DESIGN CODE (NDS 2015), AND LOCAL REQUIREMENTS.

2x6 O.C. 24"

- 2. LOAD CRITERIA PER
 - EXPOSURE CATEGORY "B"

Rafter

- GROUND SNOW LOAD, Pg = 30 PSF
- LATERAL LOAD RISK CATEGORY "II"
- ULTIMATE DESIGN WIND SPEED = 115 MPH

Structural Details

- 3. SOLAR PANELS AND RACKING SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
- 4. FOLLOW ALL LOCAL AND FEDERAL SAFETY REQUIREMENTS.

David C. Hernand€ Digitally signed by David C. Hernande Date: 2024.11.15 18:02:42 -05:00

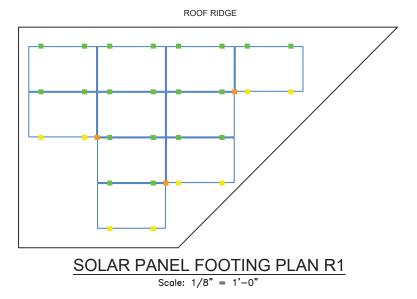


REVIEWED

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

APPROVED Montgomery County Historic Preservation Commission





KEY

MOUNTS WITHOUT SPACERS

MOUNTS WITH SPACERS

CLAMPS WITHOUT SPACERS

CLAMPS WITH SPACERS

NOTES:

- 1. SNAPNRACK TOPSPEED SHALL BE INSTALLED IN ACCORDANCE WITH SNAPNRACK INSTALLATION MANUAL.
- 2. ADD TOPSPEED CLAMP IF GREATER THAN (SOLAR PANEL LENGTH / 4) FOR LANDSCAPE OR (SOLAR PANEL WIDTH /4) FOR PORTRAIT
- 3. NO SOLAR PANEL SHALL CANTILEVER MORE THAN 1/4 SOLAR PANEL LENGTH OR WIDTH DEPENDING ON ORIENTATION. UNLESS FOR MANUFACTURER SPECIFIED CLAMPING ZONE



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2.900 kW 4.000 kW

Yuri Zelinsky 7212 Spruce Avenue Takoma Park, MD 20912

AS NOTED MD22231

	None					
	Utility					
County	Pepco					
	l					
Solar Panel Footing Plan						
	County					



SnapNrack

Solar Mounting Solutions

TopSpeed™ Mounting System

Installation Manual

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

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Montgomery County

Historic Preservation Commission

Ranku Man enrack.com

SnapNrack's primary goal is to provide our customers with the lowest possible installed cost for mounting residential solar modules, without compromising the values the industry has come to expect: ease of use, quality, aesthetics, and safety. Designing with this goal in mind, we are proud to present the SnapNrack TopSpeed™ mounting system with SpeedSeal™ Technology.

SnapNrack has created a ground breaking system combining great features and benefits we are known for, with our TopSpeed™ System and the most up to date technical innovation in the industry, thus reducing parts while driving down labor, material, and total installation costs. Designed to work with standard module frames, achieving UL 2703 Listing for Grounding/Bonding and Fire Classification, providing integrated wire management, aesthetics and our industry leading "Snap-In" features, SnapNrack is providing the simplest and most cost effective solar mounting solution on the market with TopSpeed™ including integrated fasteners and SpeedSeal™ Technology.

Advantages of Installing the SnapNrack TopSpeed™ System

Modules are installed with a minimum number of parts

This elimination of parts leads to a lower estimated system cost for both the installer and home owner.

Built in Wire Management and Aesthetics

Extensive wire management solutions have been designed specifically for the system that adapts to multiple possible mounting positions.

The system is designed to be aesthetically pleasing and sturdy with a skirt that provides considerable strength at the leading reviewed elegant look for those seeking high end looking systems.

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

SnapNrack TopSpeed™ includes SpeedSeal™ Technology

SpeedSeal™ Technology features integrated flashing. This eliminates loosening layers of composition and removing nails with a pry bar, leading to less damage to the roof, minimized potential roof leaks, and much faster installs.

TopSpeed™ Mounts attach Directly to the Decking
As well as all of the benefits associated with th
TopSpeed™ attaches to the roof sheathing and
Simply attaching to the roof sheathing remove
drilling pilot holes, creating potential rafter mis

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Historic Preservation Commission

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Project Plans

Certification Details
Component Details
Pre-Installation Requirements
Installation Steps
TopSpeed™ Skirt Layout
TopSpeed™ Mount to Module Installation
TopSpeed™ Mount Skirt Installation
Wire Management
MLPE Attachment
Module Installation
Grounding Specifications
Maintaining the Grounding Bonding When Removing a Module
Appendix A: List of approved Modules and MLPEs

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

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Rame ho homes

Certification Details

SnapNrack TopSpeed™ mounting system has been evaluated by Underwriters Laboratories (UL) and Listed to UL Standard 2703 for Grounding/Bonding, and Fire Classification.

Grounding/Bonding

Only specific components have been evaluated for bonding, and are identified as being in the ground path. The TopSpeed™ components that have been evaluated for bonding are the Mount Assembly (Mount Clamp Top, Module Clamp Tower, Angle Bracket), Clamp Assembly, Universal Skirt, Universal Skirt Clamp, Ground Lugs, and Smart Clips.

Universal Skirt Spacers, Mount Channel Nut, and Mount Base are not required to be bonded to the system based on the exceptions in clause 9.1 of UL 2703 1st Ed. Wire management clips are utilized to route conductors away from these components and must be assembled according to the instructions.

This mounting system may be used to ground and/or mount a PV module complying with UL 1703 or UL 61703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions. See Appendix A for the list of modules tested for use with the TopSpeed™ System for integrated grounding.

Ground Lugs have been evaluated to both UL 467 and UL 2703 Listing requirements. The following ground lugs have been approved for use: SnapNrack model 242-92202, and Ilsco models GBL-4DBT and SGB-4.

The following components have been evaluated for bonding as the fault current ground path: TopSpeed™ Mount Assembly, (Mount Clamp Top, Module Clamp Tower, Angle Bracket), Clamp Assembly, Wire Management Clips, and Ground Lugs. In order to maintain the Listing for bonding, wire management clips must be assembled to route conductors away from parts that have not been evaluated for bonding.

A Listed (QIMS) and Unlisted Component (KDER3) grounding lug, SnapNrack part no. 242-92202, is attached to the module frame flange for the normal attachment of a Grounding Electrode Conductor, which provides bonding within the system and eventual connection to a Grounding Electrode, as required by the U.S. NEC. Details of part no. 242-92202 can be found in Volume 1, Section 4, and Volume 2, Section 2. When this method is used, the grounding symbol is stamped onto the body of the ground lug to identify the grounding terminal.

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

An alternate method of grounding, a UL Listed (K LR and Olly S) grounding ug, lisee (E3444)

and E354420) model SGB-4 is attached to the module frame flange. When this method is used, the grounding terminal is identified by the green colored screws of the lug.

An alternate method of grounding, a UL Listed (KDER and E354420) model GBL-4BDT is attached to the module fratorque values. When this method is used, the grounding screw of the lug.

An alternate method of grounding, Enphase R/C (QIKH2) to the Listed PV module frame by the Enphase R/C (QIMS mounting/clamping kit. The total roof-mounted PV syster together and the assembly is bonded to ground through 1 Model ETXX-240, ETXX-208 or ETXX-277, when properly R/C (QIMS2), Dynoraxx (E357716) photovoltaic bonding component that may be used with this system. The Dynor

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Historic Preservation Commission

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O is bonded piercing verters)
Cables;

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module to module bonding. The Dynobond device attaches to the frame flange of adjacent modules Listed (QIMS), SnapNrack MLPE Frame Attachment Kit model 242-02151 has been investigated to bond approved MLPE device back plates to frames of modules.

Fire

SnapNrack TopSpeed™ has been investigated for a Class A System Fire Classification for Steep-Sloped and low sloped roofs with Type 1 and Type 2 modules. Because the system was tested at 5 inches above the test roof fixture, TopSpeed™ can be installed without any height restrictions due to System Fire Classification. See Appendix A for potential module-specific height restrictions due to module temperature. The Skirt is considered an optional component with respect to Fire Classification, as SnapNrack TopSpeed™ maintains the same Fire Classification Rating both with and without the skirt.

NOTE: Modules with an asterisk* have a fire rating that is different from Type 1, Type 2 or Type 29. SNR systems have only been evaluated for use with Type 1, Type 2, or Type 29 modules. Modules with a different fire type rating should be considered to not have been evaluated for use with SNR systems with respect to a system fire rating.

Inspection Practices

SnapNrack recommends a periodic re-inspection of the completed installation for loose components, loose fasteners, and any corrosion, such that if found, the affected components are to be immediately replaced.

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

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Montgomery County

Historic Preservation Commission

Rameta/M

TopSpeed™ Structural Components



TopSpeed™ Mount

SnapNrack TopSpeed™ Mount assembly including SpeedSeal™ base, clamp top, and (4) SnapNrack #14 SS Wood Screws with 1/2" Hex Head.



TopSpeed™ Clamp

SnapNrack TopSpeed™ Clamp assembly including including Link bottom, Link top, and springs.



Universal Skirt

SnapNrack Universal Skirt in double portrait or single landscape lengths.

Wire Managements Components



Skirt Spacers

SnapNrack Universal Skirt Spacer for 40mm, 38mm, 35mm, 32mm, and 30mm modules.



Smart Clip

Module frame cable clip, holds two PV wires or Enphase IQ-Cables.

Grounding/MLF



Smart Clip XL

Module frame cable clip, holds six PV wires or four Enphase IQ-Cable.

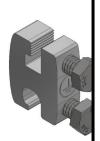


By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024



Wire Saver

Designed to secure conductors that become loose and hang below the array, holds one conductor.



Ground Lug

SnapNrack Ground Lug a used for attaching the Equipment Grounding Conductor on to one module or any TopSpeed™ Mount per array. 5





chment Kit

le Level

Performance Enhancers) and other related equipment to the module frame.

Component Details

Hardware Torque Specifications

The recommended torque to be applied to components for proper assembly and bonding are as follows:

Hardware Description	Torque Specification
All TopSpeed™ ½" bolts; System Leveling Bolt, TopSpeed™ Mount Clamping Bolt, Clamp Bolt	16 ft-lb
Ground Lug model 242-92202 to Module Frame or anywhere on the TopSpeed™ Mount, and Ground Lug model 242-92202 to Grounding Electrode Conductor (6-12 SOL)	8 ft-lb
MLPE Frame Attachment Kit, MLPE Rail Attachment Kit	10 ft-lb
SolarEdge Frame Mounted Microinverter Bracket to Module Frame	11 ft-lb
Enphase Frame Mounted Microinverter Bracket to Module Frame	13 ft-lb
Ground Lug model SGB-4 to module	75 in-lb
Ground Lug model SGB-4 to Grounding Electrode Conductor (4-14 SOL or STR)	35 in-lb
Ground Lug model GBL-4DBT to module	35 in-lb
Ground Lug model GBL-4DBT to Grounding Electrode Conductor (10-14 SOL or STR)	20 in-lb
Ground Lug model GBL-4DBT to Grounding Electrode Conductor (8 SOL or STR)	25 in-lb
Ground Lug model GBL-4DBT to Grounding Electrode Conductor (4-6 SOL or STR)	35 in-lb

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By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

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Site Survey

- Measure the roof surfaces and develop an accurate drawing, including any obstacles such as chimneys and roof vents.
- If plans for the roof structure are available, verify that the plans match the final structure.
- Identify any roof access or setback areas as required by the local AHJ.
- Identify any construction issues that may complicate the process of locating rafters from the roof surface.
- If you find structural problems such as termite damage or cracked rafters that may compromise the structure's integrity consult a structural engineer.

Design Guidance

- PV Designers should account for the 0.75 inch spacing between rows and columns of modules when creating the layout.
- Determine site conditions for calculating the engineering values, confirm site conditions and code versions comply with local AHJ requirements.
- Reference site conditions and system specifications in TopSpeed™ Structural Engineering Report to determine the number of attachments per module side.
- Insert SnapNrack installation details into design plan set specific to the project requirements.
- Draw roof attachment locations on plan set layout based on TopSpeed™ Structural Engineering.

Best Practice:

If environmental load conditions require three TopSpeed $^{\rm m}$ attachments per module side this is only required when modules share attachments.

- Identify homerun and Junction Box locations based on rooftop wiring requirements.
- Mark distance from array edge to identifiable roof feature in x and y axes.

- Always wear appropriate OSHA approved safety equipment when at active construction site.
- Appropriate fall protection or prevention gear should be used. Always use extreme caution when near the edge of a roof.
- Use appropriate ladder safety equipment when accessing the roof from ground level.

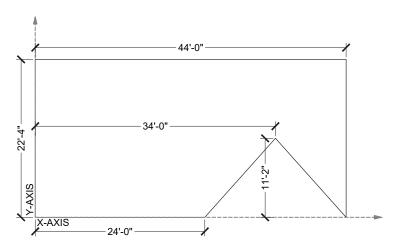
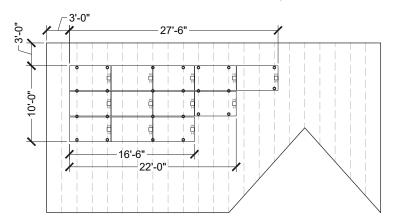


Image note: X-Axis described in this manual is cross-slope on the roof, Y-Axis is in line with the roof slope.



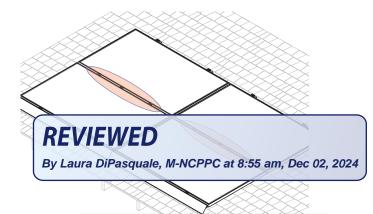


Image note: The configuration very modules share three attachments of the array.

▲ Safety Gui

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Rame ho home

Always wear proper eye protection when required.

- Socket Wrench/Impact Driver
- Torque Wrench

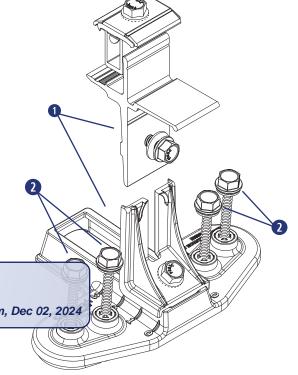
● 1/2" Socket

Materials Included - TopSpeed™ System with SpeedSeal™ Technology

- **1** (1) SnapNrack TopSpeed™ Mount
- (4) SnapNrack #14 Wood Screw with 1/2" Hex Head & sealing washer

Best Practice:

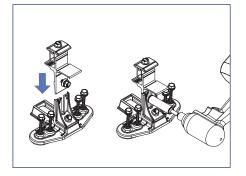
Attach all TopSpeed™ mounts as the modules are being prepped with MLPEs on the ground. Attach Mounts before attaching MLPEs to simplify wire management.



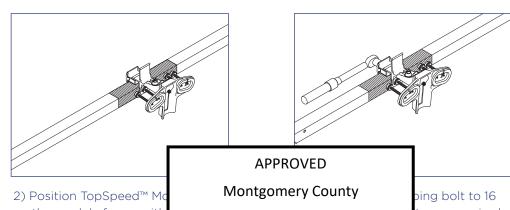
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By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

INSTALLATION INSTRUCTIONS



1) Assemble all TopSpeed™ Mounts required for the installation. Slide the clamp tower assembly into the angle bracket riser and tighten the leveling bolt to 16 ft-lbs.



2) Position TopSpeed™ Mo on the module frame with module manufacturers red clamping zone.

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Roof Marking Crayon or ChalkTape Measure

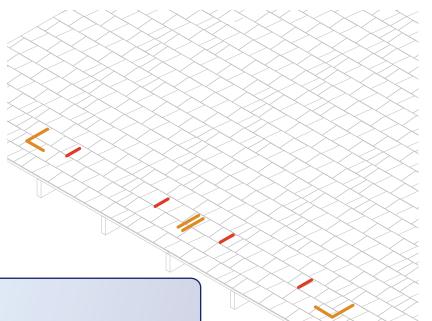
LAYOUT INSTRUCTIONS

1) Use a tape measure to verify that all modules will fit properly on the roof surface.

2) On the roof draw the layout for the skirt installation including module gaps (recommended 0.75 inch gap), bottom corners, and locations of the two TopSpeed $^{\text{TM}}$ attachments per module that clamp to the skirt. Three attachments per module is never required at the skirt.

nstall Note:

If environmental load conditions require three TopSpeed $^{\text{\tiny{IM}}}$ attachments per module side this is only required when modules share attachments.



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- Socket Wrench/Impact Driver
- Torque Wrench
- 1/2" Socket
- Roofing sealant

Materials Included - TopSpeed™ Mount with SpeedSeal™ Technology

- 1 (1) TopSpeed™ Mount
- 2 (1) TopSpeed™ Clamp
- (1) Universal Skirt
- (1) Universal Skirt Spacers
- (1) OPTIONAL Universal Link

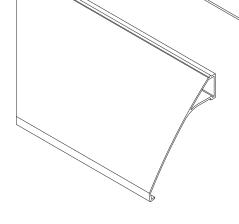








By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024













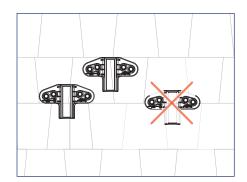
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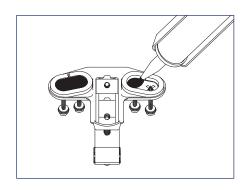
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TopSpeed™ Mount Skirt Installation

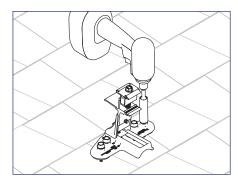
INSTALLATION INSTRUCTIONS



1) Install TopSpeed™ Mounts at locations drawn during the skirt layout. Mounts must be installed entirely on one course of composition.



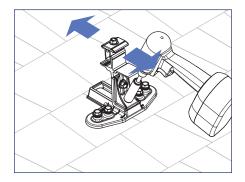
2) Fill both cavities on bottom of TopSpeed™ Mount created by SpeedSeal™ gasket with roof sealant to ensure a watertight seal.



3) Attach TopSpeed™ Mount to roof using the (4) SnapNrack #14 Wood Screws with 1/2" hex head that are captured in the Mount.

Install Note:

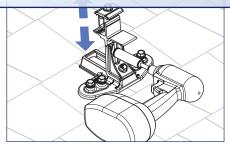
Roof sealant should be expelled from both vents of the TopSpeed™ Mount as it is installed to assure the proper amount of roof sealant has been applied. If sealant is not expelled from all four vents, remove TopSpeed™ Mount, add more sealant to the cavity, then reinstall.



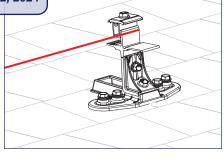
4) Loosen Course Adjustment bolt and adjust end Mounts up or down until aligned with bottom edge of array as marked on the roof, then tighten the Course Adjustment bolt.



By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024



5) To set the TopSpeed™ Mount level loosen the Leveling move the clamp up or d tighten the Leveling bol to 16 ft-lb.



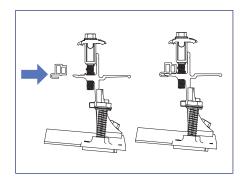
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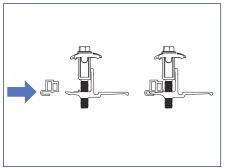
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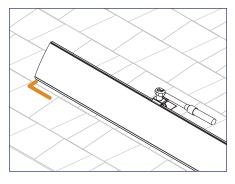
nment feature d align the

INSTALLATION INSTRUCTIONS

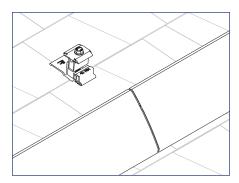


7) Universal Spacers will need to be added to Mounts and Clamps where Skirt will be installed.





8) Install Universal Skirt by holding the skirt in Mount, sliding Skirt to align with array layout marks, and clamping skirt into mount.



9) Use TopSpeed™ Clamps to connect multiple lengths of Array Skirt.



By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

nstall Note:

Optionally use Universal Links to connect lengths of Array Skirt.

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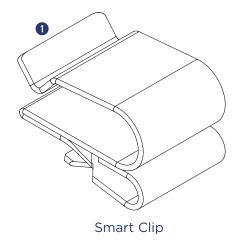
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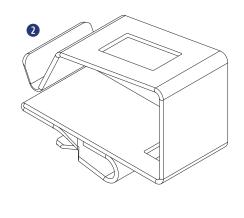
● Socket Wrench ● Torque Wrench ● 1/2" Socket ● Electrician Tools

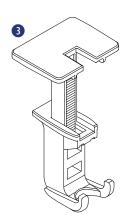
Materials Included

Smart Clips

- 1 (1) Smart Clip [(2) PV Wire, (1) Enphase IQ Cable]
- (1) Smart Clip XL [(6) PV Wire, (4) Enphase IQ]
- 3 (1) Wire Saver [(1) PV Wire]







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By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

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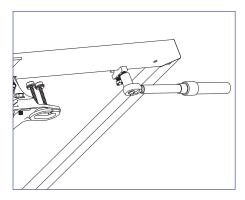
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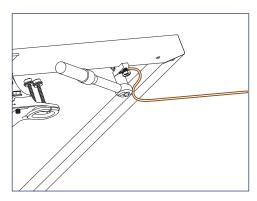
Wire Management

INSTALLATION INSTRUCTIONS - GROUND LUG

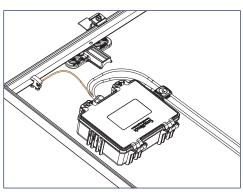
The SnapNrack Ground Lug to be used in accordance with the National Electric Code, ANSI/NFPA 70.



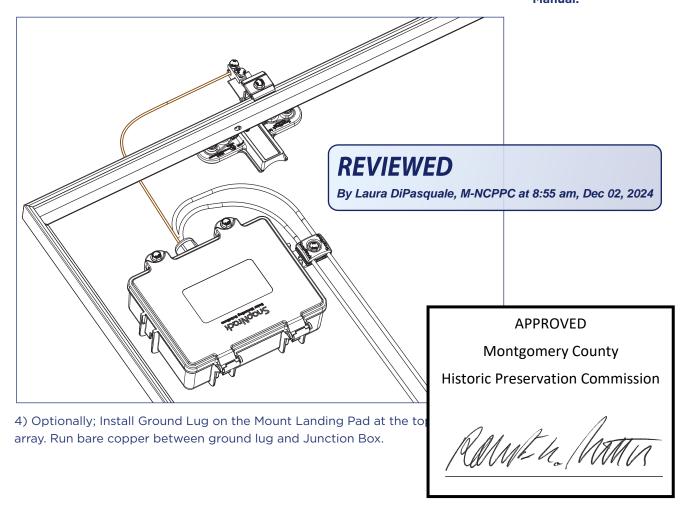
1) Ground Lug (242-92202) can be attached anywhere along the module frame or any TopSpeed™ Mount near the Junction Box. Torque module clamping bolt to 8 ft-lb.



2) Run 10 - 6 AWG, solid, bare copper GEC into Ground Lug channel, torque wire clamping bolt to 8 ft-lb.

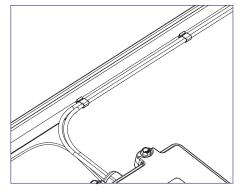


3) Run bare, solid EGC from Ground Lug R to Junction Box, bond bare EGC to stranded EGC in Junction Box. For details on installing the Junction Box reference the **Junction Box Installation Manual.**

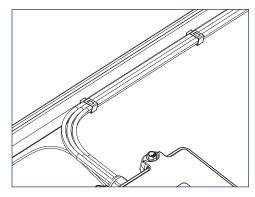


INSTALLATION INSTRUCTIONS - SMART CLIPS

SmartClip and SmartClip XL should be used to route conductors in a neat and workmanlike manner away from all non-bonded components and support the conductors adequately to eliminate potential damage.



1) Use SnapNrack Smart Clip II to manage up two PV wires inside the module frame while prepping out the modules on the ground or installing modules on the roof.



2) Use SnapNrack Smart Clip XL to manage larger bundles of PV wire; up to 6 PV wires per clip

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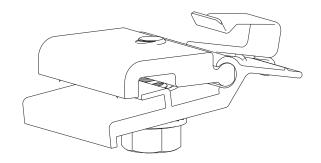
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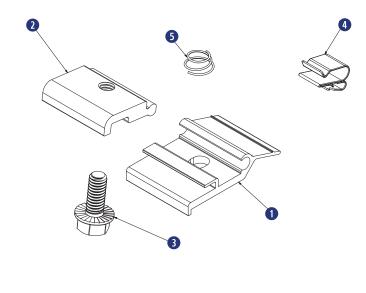
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- Socket Wrench Torque Wrench 1/2" Socket

Materials Included - MLPE Rail Attachment Kit

- 1 (1) SnapNrack MLPE Frame Attachment Top
- (1) SnapNrack MLPE Frame Attachment Bottom
- 3 (1) 5/16"-18 X 3/4" Serrated Flange Bolt SS
- (1) SnapNrack Smart Clip
- (1) SnapNrack MLPE Frame Attachment Coil Spring SS

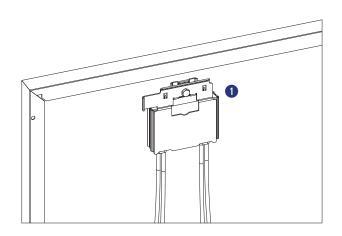




Materials Included

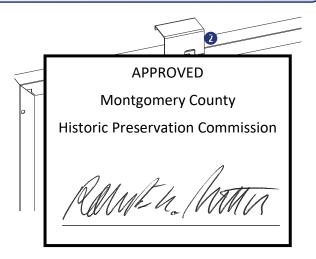
SolarEdge Frame Mount

1 (1) SolarEdge Optimizer w/ Frame-Mounted Module Add-On



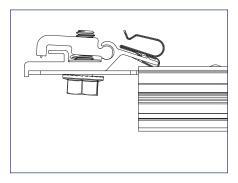
Enphase Frame Mount

REVIEWED hase Frame Mount By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

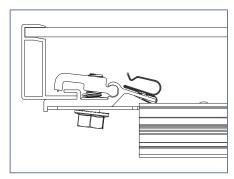


INSTALLATION INSTRUCTIONS - SNAPNRACK MLPE FRAME ATTACHMENT KIT

SnapNrack MLPE Frame Attachment kit are used to attach module level performance enhancing devices, and other devices such an SRD (rapid shutdown device), directly to module frames, and provide integrated grounding/bonding for Devices grounded through metal back plate. (Refer to the list of tested MLPE devices on page XX of this manual).

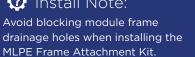


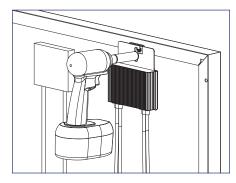
1) Slide the backplate channel of the MLPE device under the MLPE Frame Attachment Kit bolt. The MLPE mounting plate should rest against the MLPE mounting plate backstop on the MLPE Frame Attachment Kit.



2) Position the MLPE Frame Attachment Kit on the module frame flange in a location that will not interfere with mounting system components. The module frame flange should rest against the module flange backstop on the MLPE Frame Attachment Kit.



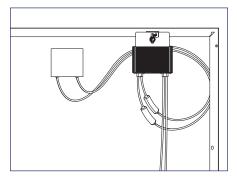




3) Tighten the mounting bolt on the MLPE Frame Attachment Kit to 12 lb-ft (144 lb-in).



The MLPE Frame Attachment Kit bonds the following components: Module Frame, MLPE backplate and Smart Clip.



4) Connect the module leads to the input connectors on the MLPE device and manage conductors with the integrated Smart Clip.

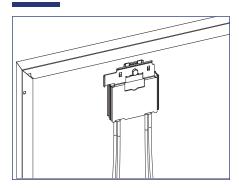
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By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

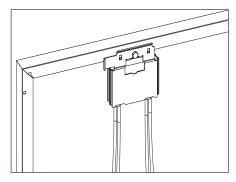
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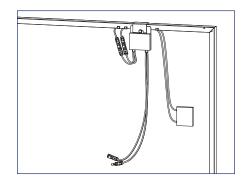
INSTALLATION INSTRUCTIONS - SOLAREDGE FRAME MOUNT



1) Locate the SolarEdge optimizer with Frame-Mounted Module Add-On at a location on the module frame that will not interfere with the TopSpeed™ Mounts.



2) Install the optimizer mounting plate onto the module frame and tighten hardware to 11 ft-lbs.



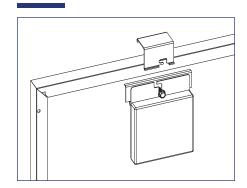
3) Connect the module leads to the input connectors on the optimizer and manage conductors with SnapNrack Smart Clips.



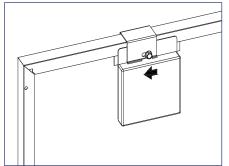
1 Install Note:

If module is mounted in portrait, install MLPE on long side, short side for landscape.

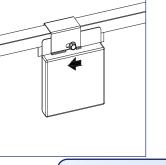
INSTALLATION INSTRUCTIONS - ENPHASE FRAME MOUNT



1) Locate the Enphase Frame Mount bracket clamp at a location on the module frame that will not interfere with the TopSpeed™ Mounts.



2) Slide the microinve the bracket clamp, the slightly to the left.



REVIEWED

3) Tighten the hardware to 13 ft-lbs. By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

microinverter DC connectors.



Install Note:

The microinverter mounti should be on the outside module frame.

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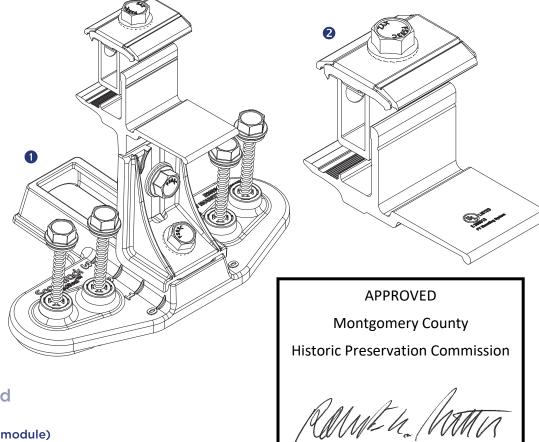
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Frame Mount additional

- Socket Wrench
- Torque Wrench
- 1/2" Socket
- Roofing Sealant

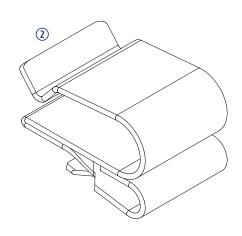
Materials Included

- SnapNrack TopSpeed™ Mount
- 2 SnapNrack TopSpeed™ Clamp



Other Materials Required

- ② SnapNrack Smart Clip (2-5 per module) See Wire Management section for details
- 3 SnapNrack Smart Clip XL (10-20 per array) See Wire Management section for details





INSTALLATION INSTRUCTIONS - BOTTOM ROW

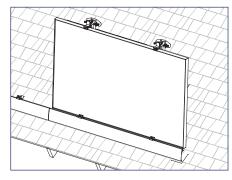
Recommended Best Practice:

Attach all TopSpeed™ mounts as the modules are being prepped with MLPEs on the ground. Attach Mounts before attaching MLPEs to simplify wire management.

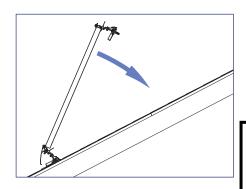
nstall Note:

It is recommended that module leads and connectors are prepared for installation using SnapNrack Smart Clips before being brought to the rooftop.

- With no MLPE, secure module leads to module frame to allow access to connectors while modules are installed
- Secure MLPE device to module frame with SnapNrack MLPE Frame Attachment Kit and connect module leads to MLPE, and manage leads by positioning connectors to allow access during installation



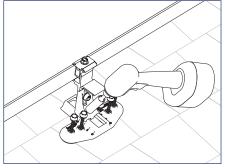
1) Rest downslope edge of module on the Mounts and/or Clamps position module so side edge is flush with marked edge of array layout or Skirt.

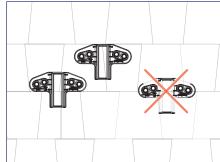


2) Lower upslope edge of module while simultaneously applying slight pressure to seat module into Mounts and/or Clamps.









3) When module is level with roof verify the Speedseal™ portion of the TopSpeed™ Mounts are positioned entirely on one course of composition. If required listen the 1/2" nut and adjust the base as needed then tighten the bolt.

4) Lift the upslope edge of the module and fill the SpeedSeal™ reservoir with roofing sealant.

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

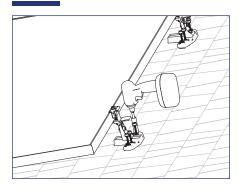


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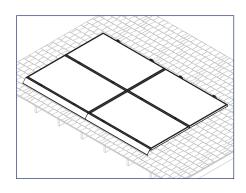
nstall Note:

Roof sealant should be expelled from both vents of the TopSpeed™ Mount as it is installed to assure the proper amount of roof sealant has been applied. If sealant is not expelled from all four vents, remove TopSpeed™ Mount, add more sealant to the cavity, then reinstall.

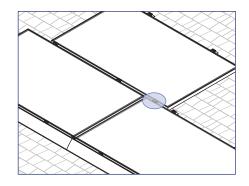
INSTALLATION INSTRUCTIONS - BOTTOM ROW



5) Lower the module to the roof and drive the (4) pre installed Snapnrack #14 Wood Screws with 1/2" hex head into the roof sheathing.



6) Repeat steps 1 through 5 for additional modules in the array.



7) For staggered arrays and arrays with mixed orientation, use the TopSpeed™ Clamp as needed to support the modules.

When installing a TopSpeed™ Clamp for support of an over cantilevered module, the clamp shall be installed 2-6" from the edge of the upslope (cantilevered) module.

🕜 Install Note:

Roof sealant should be expelled from both vents of the TopSpeed™ Mount as it is installed to assure the proper amount of roof sealant has been applied. If sealant is not expelled from both vents, remove TopSpeed™ Mount, add more sealant to the cavity, then reinstall.

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By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

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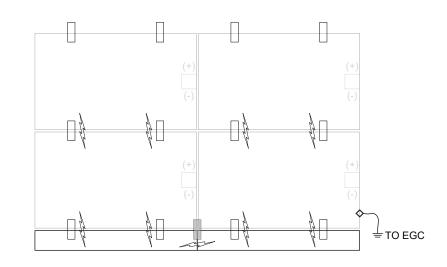
Grounding Specifications

GROUND PATH DETAILS

All TopSpeed™ components in the fault current ground path have been Certified to be used multiple times for grounding/bonding. The UL 2703 Listing does not specify a maximum number of uses for the Mount, Link, or Ground Lug. Review the requirements of the National Electrical Code (NEC) Article 250 to select the appropriate Equipment Grounding Conductor size based on the short-circuit current of the PV system.

When using Ground Lug R the following components are part of the fault current ground path:

- SnapNrack, TopSpeed™ Mount
- SnapNrack, TopSpeed™ Clamp



GROUND PATH

TOPSPEED™ CLAMP

EQUIPMENT GROUNDING CONDUCTOR

TOPSPEED™ MOUNT

GROUND LUG

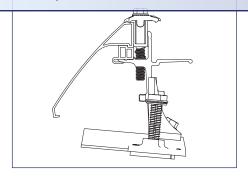


GROUNDING METHOD D REVIEWED

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024



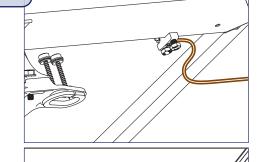
1) Row to row module bonding provided by bonding clips in Mount assembly and Clamp assembly.



2) Column to column bonding provided by Universal Skirt and

bonding clips in the Clam and/or the RL Universal L assembly.

Module heights evaluated bonding with Link Bondin 40mm, 38mm, 35mm, 32



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per array.

ray is ent Grounding round Lug on one module

The Ground Lug is marked with the ground symbol.

Optionally; Install Ground Lug on the Mount Landing Pad at the top of the array.



Maintaining the Grounding Bonding When Removing a Module

INSTRUCTION FOR MAINTAINING THE GROUNDING BONDING WHEN REMOVING A MODULE FOR SERVICING

CAUTION: Module removal may disrupt the bonding path and could introduce the risk of electric shock. Additional steps may be required to maintain the bonding path. Modules should only be removed by qualified persons in compliance with the instructions in this manual.

Module removal is not presented as a frequently expected occurrence and will not be required as part of routine maintenance.

Scenarios that could result in a disruption of the bonding path are described, for example irregularly-shaped arrays, arrays consisting of individual rows, and any other scenario where module removal could disrupt the bonding path. In most cases, the removal of a module for servicing will not disturb or break grounding continuity. If a module is to be removed that will break continuity, these are the steps that must be taken to maintain a continuously bonded SnapNrack TopSpeedTM System.



Socket Wrench Torque Wrench 1/2" Socket 7/16" Socket

Required Materials

- 1 #10 Or Larger Bare Copper Conduct
- 2 SnapNrack Ground Lug part no. 242-
- 3 Ilsco Part No. SGB-4
- 4 DnoRaxx Dynobond™







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Historic Preservation Commission

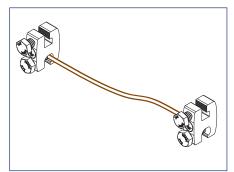
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Maintaining the Grounding Bonding When Removing a Module

JUMPER ASSEMBLY INSTRUCTION & INSTALLATION

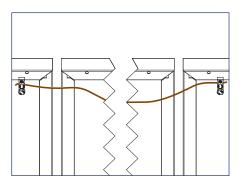
CAUTION: Do Not Remove the Module until the Jumper is installed

1) Identify the existing ground path at the location of module removal and choose an appropriate length of #10 bare copper to bridge the soon to be broken ground path.



Example of assembled bonding jumper using (2) SnapNrack Ground Lugs

- 2) Attach one ground lug to each end of #10 bare copper wire. See recommended options below:
- (2) SnapNrack Ground Lug part no. 242-922022
- 2. (2) Ilsco part no. SGB-4
- 3. (1) DroRaxx DynoBond™



3) Before the module is removed, attach the assembled bonding jumper. Depending on where the module will be removed and choice of ground lug, jumper attachment locations will vary.

- SnapNrack Ground Lug part no. 242-92202 or Ilsco SGB-4 lugs can be attached to module frames or anywhere on the TopSpeed™ Mount.
- DynoRaxx DynoBond[™] is approved and appropriate when a short bonding jumper is needed from module to module.

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

safe to remove the module for service or maintenance.

5) After Servicing the array reinstall the module and original ground path. Only then Remove the bonding

Caution: Do not remove the bonding jumper until original ground path is established.

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APPROVED MODULE & MLPE INFORMATION

SnapNrack TopSpeed $^{\text{Top}}$ System has been tested with the following UL Listed module series: The SnapNrack TopSpeed $^{\text{Top}}$ System employs top-down clamps and links which have been evaluated for frame-to-system bonding, at specific mounting torques and with the specific module series listed below. All wattage values are covered.

Module manufacturer approval letters can be found at www.snapnrack.com.

Manufacturer	Model			
	DNA-120-MF23-XXX		DNA-120-BF26-XX	xw
	DNA-120-BF23-XXX		DNA-144-BF26-XX	XW
	DNA-144-MF23-XXX		DNA-108-BF10-xxx	(W
Aptos Solar	DNA-144-BF23-XXX		DNA-120-BF10-xxx	·W
	DNA-120-MF26-XXXW		DNA-108-MF10-xxx	(W
	DNA-144-MF26-XXXW			
	CS6K-XXX-M		CS1H-XXX-MS	
	CS6K-XXX-M-SD		CS1H-XXX-MS-AE	3
	CS6K-XXX-P		CS3W-XXX-P	<u>-</u>
	CS6K-XXX-P-SD		CS3N-XXX-MS	
Canadian Solar	CS6K-XXX-MS		CS1Y-XXX-MS	
	CS3K-XXX-P CS3K-XXX-MS		CS3W-MB-AG	
	5531111111		CS6W-XXXMB-A	
	CS3H-XXX-P		CS6R-XXXMS-HI	
	REVIEWED		CS3W-XXX-MS	
CertainTeed	By Laura DiPasquale, M-	NCPPC at		
Certainreed	CHEMCCIOM VVV	CIXXX	CHEMZON HE VVV* (A	atus 4)
Chint Solar	CHSM6612M-XXX		CHSM72M HC XXX* (Astro 5)	
Chint Solar	CHSM6612M(BL)-XXX		CHSM72M-HC-XXX* (Astro 5)	
	CHSM6612M/HV-XXX DH-M760B-XXXW		DH-M760F-XXXV	
Dehui Solar	DH-M760B-XXXW		DH-M772F-XXXV	
Denui Solai	DH-M772W-XXXW		DH-M772F-XXXV	v
Freedom Forever	BIT FIN ZW XXXW	FF_MD_I	RRR-vvv	_
. 1000.0111 010101	Q.PEAK DUO-G5-XXX		APPROVED	FG-XXX
	Q.PEAK DUO-BLK-G5-XX	,	Montgomory County	XX
	Q.PLUS DUO-G5-XXX		Montgomery County	-XXX
	Q.PEAK DUO-G7-XXX	Histori	c Preservation Commission	XX
	Q.PEAK DUO-BLK-G7-XX			-XXX
Hanwha O Calla	Q.PEAK DUO-G7.2-XXX	1	1	-XXX
Hanwha Q Cells	Q.PEAK DUO-G6+-XXX	6/8/ // //		-XXX
	Q.PEAK DUO-BLK-G6+-XX	1 40	VVIII VVIIV	-XXX
	Q.PEAK DUO-G6-XXX			G-XXX
	Q.PEAK DUO-BLK-G6-XXX	(Q.PEAK DUO L-G8.3/B	GT-XXX
	Q.PEAK DUO-G8+-XXX		Q.PEAK DUO ML-G10	-XXX
	Q.PEAK DUO-BLK-G8+-XX	X	Q.PEAK DUO BLK ML-G	10+-XXX

Manufacturer	Model			
	Q.PEAK DUO-G8-XXX		Q.PEAK DUO ML-G10)+-XXX
	Q.PEAK DUO-BLK-G8-XX	X	Q.PEAK DUO BLK ML-	G10-XXX
	Q.PEAK DUO BLK-G6+/AC->	XXX	Q.PEAK DUO ML-G10	.a+-XXX
	Q.PEAK DUO-ML-G9-XX	(Q.PEAK DUO BLK ML-G	10.a+-XXX
	Q.PEAK DUO-BLK-ML-G9-X	XX	Q.PEAK DUO ML-G10).a-XXX
	Q.PEAK DUO-BLK-G9-XX	X	Q.PEAK DUO BLK ML-0	610.a-XXX
Hanwha Q Cells	Q.PEAK DUO-BLK-ML-G9+-)	ΚΧΧ	Q.PEAK DUO BLK G10+	+/AC XXX
	Q.PEAK DUO-ML-G9+-XX	X	Q.PEAK DUO BLK G10+	+/HL XXX
	Q.PEAK DUO-BLK-ML-G9+-)	ΚΧΧ	Q.PEAK DUO XL-G11	.3 XXX
	Q.PEAK DUO XL-G9.2-XX	X	Q.PEAK DUO XL-G11.3 BFG XXX	
	Q.PEAK DUO XL-G9.3-XX	X	Q.TRON-G1+ XXX	
	Q.PEAK DUO XL-G9.3/BFG-	XXX	Q.TRON BLK-G1+	XXX
	Q.PEAK DUO XL-G10.2-XX	X		
HT-SAAE	HT60-166M-XXX		HT60-182M-XX	X
Heliene	60M-XXX		72M-XXX	
Hellerie	60P-XXX		72P-XXX	
"Hyundai	HiA-SXXXMS		HiS-SXXXYI	
(All may be followed by "BK")"	HIS-SXXXXY HIS-SXXXYH(BK)		<)	
Hyperion/Runergy		HY-DH108P8-XXX(Y)		
	JAM60S09-XXX/PR			PR
	JAM60S10-XXX/MR			
JA Solar	JAM60S10-XXX/PR		JAM60S17-XXX/MR	
_	JAM60S12-XXX/PR		JAM54S30-XXX/	
	REVIEWED		JAM54S31-X KX/MR	
	JAM72S10-XXX/MR		JAM72D30-XXX/ C at 8:55 am, Dec 02, 2024	
	JKMXXXM-60		JKMXXXP-7/2-1	
	JKMXXXM-60L		JKMXXXPP-72	
	JKMXXXM-60HL		JKMXXXPP-72-V JKMSXXXP-72	
	JKMXXXM-60HBL			
	JKMXXXP-60		JKMXXXM-72HL	
linko Solov	JKMXXXP-60-J4		JKMXXXM-72HL-	
Jinko Solar	JKMXXXP-60-V JKMXXXP-60B-J4		JKMXXXM-72HE	
-	JKMXXXP-60B-J4 JKMXXXPP-60		APPROVED	
	JKMXXXPP-60-V	ſ	Montgomery County	
	JKMXXXPP-60-V	Historia	c Preservation Commission	,
	JKMXXXM-72L-V	Name of State of Stat		,
	JKMXXXP-72			V
	LGXXXN1C-A5			٧
	LGXXXN1K-A5			
	LGXXXQ1C-A5			
LG	LGXXXQ1K-A5		LGXXXN1C-N5	
20	LGXXXS1C-A5		LGXXXN1K-L5	
	LGXXXN2C-B3		LGXXXN1K-A6	
	LGXXXN2W-B3		LGXXXN1C-A6	
	LOAAANZW-D3		LOXXXIIIC-AC	

Manufacturer	Model			
	LGXXXN1C-G4		LGXXXN1W-A6	
	LGXXXN1K-G4		LGXXXQ1C-A6	
	LGXXXS1C-G4		LGXXXQ1K-A6	
	LGXXXN2C-G4		LGXXXM1K-A6	
	LGXXXN2K-G4		LGXXXM1C-A6	
	LGXXXN2W-G4		LGXXXA1C-A6	
LG	LGXXXS2C-G4		LGXXXQAC-A6	
	LGXXXS2W-G4		LGXXXQAK-A6	
	LGXXXN1C-V5		LGXXXN1K-B6	
	LGXXXN1W-V5		LGXXXN2W-E6	
	LGXXXN2T-V5		LGXXXN2T-E6	
	LGXXXN2T-J5		LGXXXN1K-E6	
	LGXXXN1T-V5		LGXXXN3K-V6	
	LR6-60-XXXM		LR4-60HPB-XXXM	
	LR6-60BK-XXXM		LR4-60HIB-XXXM	
	LR6-60HV-XXXM		LR4-60HPH-XXXM	
Longi	LR6-60PB-XXXM		LR4-60HIH-XXXM	
Longi	LR6-60PE-XXXM		LR6-60HIH-XXXM	
	LR6-60PH-XXXM		LR6-60HIB-XXXM	
	LR6-60HPB-XXXM		LR4-72HPH-XXXM	
	LR6-60HPH-XXXM			
Meyer Burger			Meyer Burger White*	
mSolar		TXI6-XX	(X120BB	
	MSEXXXSO5T		MSEXXXSQ4S	
	MS REVIEWE	D	MSEXXXSR8K	
	MSEXXXSQ5T		CPPC at 8:55 am, Dec 02, 2024	
	MSEXXXMM4J		MSE60AXXX	
Mission Solar	MSEXXXMM6J		MSEXXXSX5K	
	MSEXXXSO6W		MSEXXXSX5T	
	MSEXXXSO4J		MSEXXXSX6S	
	MSEXXXSO6J		MSEXXXSX6W	
	MSEXXXSQ6S		APPROVED	
No. 2 E	USNEA-XXXM3-60			
Next Energy Alliance	USNEA-XXXM3B-60	ľ	Montgomery County 2	
	VBHNXXXKA03	Historio	c Preservation Commission	
	VBHNXXXKA04			
Panasonic	VBHNXXXSA17	1		
	VBHNXXXSA18	W M	Matho Man	
	VBHN325SA17E	/ W	VVVI V V VVVI V S	
	PSXXXM-20/U		-	
	PSXXXMH-20/U		PSxxxM8GFH-18/VH	
Phono Solar	DS:MOSE 24/TH		PSxxxM6-24/TH	
	PSxxxM8GF-24/TH		P3XXXI*10-24/ 1 ft	
	PSXXXM8GF-24/TH PSXXXM8GFH-24/TH		P3XXXIII0-24/ I II	

Manufacturer			Мо	del	
	RECXXXT	P2		RECXXXTP2SM 72 I	BLK2
	RECXXXTP2	-BLK		RECXXXAA	
	RECXXXN	IP		RECXXXTP3M	
REC	RECXXXTP	2M		RECXXXTP4	
(All may be followed by "BLK" or	RECXXXTP2	M 72		RECXXXAA Pur	e
"BLACK")	RECXXXTP2M	72 BLK		RECXXXAA Pure	-R
	RECXXXTP2M 7	'2 BLK2		RECXXXNP2	
	RECXXXTP29	M 72		RECXXXNP3	
	RECXXXTP2SM	72 BLK			
	SEG-400-BM	B-HV		SEG-xxx-BMD-H	V
SEG Solar	SEG-400-BM	в-тв		SEG-xxx-BMD-TB	
	SLAXXX-M		SILXXXNT		
	SLAXXX-	Р		SILXXXHL	
	SSAXXX-	М		SILXXXBK	
	SSAXXX-P		SILXXXNX		
	SILXXXBL		SILXXXNU		
Silfab	SILXXXML		SILXXXHC		
SILXXXI		L		SILXXXHN	
	SLGXXX-M		SILXXXBG		
	SLGXXX-P		SIL-xxxHC+		
	SSGXXX-M		SIL-xxxHM		
	SSGXXX-P				
	Solaria PowerXT-XXXR-PX		Solaria PowerXT-XXX	(R-PM	
Solaria	Solaria PowerXT-XXXR-BX		(Solaria PowerXT-XXXR	P-PM-AC
	Solaria PowerXT-	XXXR-AC			
	SPR-AXX	EVIEV	NED	SPR-MXXX-H-A	С
Sunpower	SPR-AXX			SPR-MXXX <i>N-NCPPC at 8:55 am, Dec 02, 202</i>	24
Suilpowei	SPR-AXXX-BY	Laura DIF	asquale, II	n-NCPPC at 6.55 am, Dec 02, 202	Ä¢.
	SPR-AXXX-I	BLK		SPR-MXXX-BLk	(
SunSpark	SST-XXXM3	-60		SST-XXXM3-72	
Sunspun	SST-XXXM3E	3-60		SST-XXXM3B-72	2
Talesun	TP660M-X	XX		TP672M-XXX	
10.000.11	TP660P-X	XX		APPROVED	
	TSM-XXXDD0		ſ	Montgomery County	II)
	TSM-XXXDD05		∐ictori,	c Preservation Commission	(II)
	TSM-XXXDD05		ПІЗІОПІ	C Preservation Commission)
	TSM-XXXDD05A.082(II)			Λ	
Trina	TSM-XXXPA05			as 2, 11.	II)
	TSM-XXXPAC		/4 M	While Man	
	TSM-XXXPAC		1 000		
	TSM-XXXPI)(II)
	TSM-XXXPD05.002		TSM-XXXDEG18MC.2		
	TSM-XXXPD0	5.05		TSM-XXXDEG19C	.20

Manufacturer	Мс	odel
	TSM-XXXPD05.05S	TSM-XXXDEG21C.20
	TSM-XXXPD05.08	TSM-XXXDE09C.05
Trina	TSM-XXXPD05.082	TSM-XXXDE09C.07
	TSM-XXXPD05.08D	TSM-xxxNE09RC.05
	TSM-XXXPD05.08S	
Vikram Solar	SOMERA VSMHBB.60.XXX.05	PREXOS VSMDHT.60.XXX.05
VIKIAIII SOIAI	SOMERA VSMH.72.XXX.05	PREXOS VSMDHT.72.XXX.05
VSUN	VSUNXXX-144BMH-DG	VSUNXXX-108BMH
VSON	VSUNXXX-120BMH	
ZNShine	ZXM6-60-XXX/M	ZXM6-NH144-XXXM
Zivalille	ZXM6-NH120-XXXM	ZXM7-SH108-XXXM

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:55 am, Dec 02, 2024

APPROVED

Montgomery County

Historic Preservation Commission

Ramata homen

SnapNrack TopSpeed™ has been tested with the following Module Level Power Electronic (MLPE) devices:

SnapNrack TopSpeed $^{\text{TM}}$ mounting systems has been tested with the following UL/NRTL Listed Module Level Power Electronic (MLPE) Devices. The back plates of the MLPEs have been evaluated for bonding to TopSpeed $^{\text{TM}}$ through the SnapNrack MLPE Frame Attachment Kit, model 242-02151.

AP Smart Celestica International Delta Electronics Enphase Generec Ginlong Technologies	DG-006-F00120 GPI00010105 C250 M215 M250 IQ6-60-2-US IQ6PLUS-72-2-U IQ7-60-2-US IQ7-60-B-US Solis-MLRSD-R1-	US S25 Solis-R	IQ7PLUS-72-2-US IQ7PLUS-72-B-US IQ8-60 IQ8PLUS-72 IQ8A-72 IQ8H-208-72 IQ8H-240-72	
Enphase Generec	GPI00010105 C250 M215 M250 IQ6-60-2-US IQ6PLUS-72-2-U IQ7-60-2-US IQ7-60-B-US	US S25 Solis-R	IQ7PLUS-72-2-US IQ7PLUS-72-B-US IQ8-60 IQ8PLUS-72 IQ8A-72 IQ8H-208-72 IQ8H-240-72	
Enphase	C250 M215 M250 IQ6-60-2-US IQ6PLUS-72-2-U IQ7-60-2-US IQ7-60-B-US	US S25 Solis-R	IQ7PLUS-72-B-US IQ8-60 IQ8PLUS-72 IQ8A-72 IQ8H-208-72 IQ8H-240-72	
Generec	M215 M250 IQ6-60-2-US IQ6PLUS-72-2-U IQ7-60-2-US IQ7-60-B-US	US S25 Solis-R	IQ7PLUS-72-B-US IQ8-60 IQ8PLUS-72 IQ8A-72 IQ8H-208-72 IQ8H-240-72	
Generec	M250 IQ6-60-2-US IQ6PLUS-72-2-U IQ7-60-2-US IQ7-60-B-US	US S25 Solis-R	IQ8-60 IQ8PLUS-72 IQ8A-72 IQ8H-208-72 IQ8H-240-72	
Generec	IQ6-60-2-US IQ6PLUS-72-2-U IQ7-60-2-US IQ7-60-B-US	US S25 Solis-R	IQ8PLUS-72 IQ8A-72 IQ8H-208-72 IQ8H-240-72	
Generec	IQ6PLUS-72-2-U IQ7-60-2-US IQ7-60-B-US Solis-MLRSD-R1-	US S25 Solis-R	IQ8A-72 IQ8H-208-72 IQ8H-240-72	
Generec	IQ7-60-2-US IQ7-60-B-US Solis-MLRSD-R1-	S25 Solis-R	IQ8H-208-72 IQ8H-240-72	
	IQ7-60-B-US Solis-MLRSD-R1-	S25 Solis-R	IQ8H-240-72	
	Solis-MLRSD-R1-	S25 Solis-R	502	
	Solis-MLRSD-R1-	S25 Solis-R	502	
		Solis-R		
Ginlong Technologies			13D-113	
		Solis-MLRSD-R1-1G Solis-MLRSD-		
			P320-5NC4ARS	
	P370-5NC4AFS		P400-5NC4AFS	
	P320		P340	
	P370		P400	
	P401		P405	
SolarEdge	P485		P505	
	P730		P800p	
	P850		P860	
	P950		P1100	
	P11	S440		
	s5d K E	VIEWE	U	
SMA	By L	aura DiPasqua	ale, M-NCPPC at 8:55 am, Dec (02, 20
	TS4-		TS4-R-M	
	TS4-R-O		TS4-R-S	
Tigo	TS4-R-M-DUO		APPROVED	
	TS4-R-S-DUO	_		
	TS4-A-2F	Mo	ontgomery County	
		Historic P	reservation Commission	

snapnrack.com







DAVID C. HERNANDEZ, PE

513-418-8812



4912 Prospect Ave., Blue Ash OH 45242



davehernandezpe@gmail.com



DATE: November 15, 2024

RE: 7212 Spruce AvenueTakoma Park, MD 20912, USA

To Whom It May Concern,

As per your request, Exactus Energy has inspected the structure and has conducted a structural assessment of the building at the above address.

PV solar panels are proposed to be installed on roof areas as shown in the submitted plans. The panels are clamped and attached to the roof decking with a rail-less mounting system. The PV system (PV modules, racking, mounting hardware, etc.) shall be installed according to the manufacturer's approved installation specifications. The Engineer of Record and Exactus Energy claim no responsibility for misuse or improper installation.

It was found that the roof structures satisfactorily meet the applicable standards included in the 2018 IBC/IRC, 2018 IEBC, and ASCE 7-16 as well as the design criteria shown below:

Design Criteria:

Risk Category = II Exposure Category = B

Wind speed = 115 mph
Ground snow load = 30 psf
Roof dead load = 12 psf
Solar system dead load = 3 psf

Overall, the roof area is structurally adequate to support the PV alteration with no modifications or reinforcements as required per 2018 IEBC Sections 502.4 and 502.5

This letter was completed in accordance to recognized design standards, professional engineering experience, and judgement. Prior to installation, the on-site contractor must notify Exactus Energy if there are any discrepancies, or damages to the members, that was not addressed in the plan set.

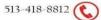
If you have any further questions, please do not hesitate to contact me.

Acknowledged by:





DAVID C. HERNANDEZ, PE



4912 Prospect Ave., Blue Ash OH 45242



davehernandezpe@gmail.com



ASCE 7-16

IEBC IMPACT CHECK		
Inputs	Roof 1	Unit
Existing Gravity Loads		
Roof Dead Load (DL _r)	12	psf
Roof Live Load (LL _r)	20	psf
Roof Snow Load (SL _r)	23.1	psf
(DLr+LLr)/Cd =	25.6	psf
(DLr+SLr)/Cd=	30.52	psf
Max. Existing Gravity Load	30.52	psf
Proposed Gravity Loads		
Roof Dead Load with PV Panel Load (DL)	15	psf
Roof Live Load (LL)	0	psf
Roof Snow Load (SL)	14.32	psf
(DL+LL)/Cd =	16.67	psf
(DL+SL)/Cd=	25.5	psf
Max. Proposed Gravity Load	25.5	psf
% Change =	- 16.45	%

The change in gravity loads for Roof 1 after the proposed solar installation is less than 5%, therefore passes the Impact Check.

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:57 am, Dec 02, 2024

APPROVED

Montgomery County

Historic Preservation Commission

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SEISMIC CHECK

Breakdown of Loads		
Asphalt Shingles:	7	psf
Insulation:	1.5	psf
Plywood Sheathing:	1.5	psf
Rafters:	1	psf
Misc:	1	psf
Live load:	20	psf

Existing Roof Seismic Weight				
	Unit Weight	Area	Weight	
Element	(psf)	(Sq.ft)	(lbs)	
Roof DL	12	2014.00	24168	
Exterior Walls	8	2602.56	20820.48	
Interior Walls	6	2602.56	15615.36	
Existing Seismic Weight @Roof Level, We =			60603.84	

New PV System Seismic Weight				
	Unit Weight	Area	Weight	
Element	(psf)	(Sq.ft)	(lbs)	
Pv System	3	210.20	630.60	
Seismic Weight of New PV System, Wpv =			630.60	

% Increase in Lateral (Seismic) Weight @Roof Level	
Due to PV System Addition, %-increase = Wpv / We	1.04% < 10% - Pass

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:57 am, Dec 02, 2024

APPROVED

Montgomery County

Historic Preservation Commission

Ramba lama

REVIEWED



By Laura DiPasquale, M-NCPPC at 8:57 am, Dec 02, 2024

APPROVED

Montgomery County
Historic Preservation Commission

Rame L. Min

Project Property Owner Yuri Zelinsky

Address 7212 Spruce AvenueTakoma Park, MD 20912, USA

✓ I reviewed the design of the photovoltaic (PV) system, as designed by the manufacturer, and the design criteria utilized for the mounting equipment and panel mounting assembly (rack system) for the installation of (10) panels supported by the rack system, as shown on the drawings prepared for the above referenced address. I certify that the configurations and design criteria meet the standards and requirements of the International Residential Code (IRC) and International Existing Building Code (IEBC) adopted by Montgomery County in COMCOR08.00.02.

✓ The attachment of the rack system to the building at the above address, including the location, number, and type of attachment points; the number of fasteners per attachment point; and the specific type of fasteners (size, diameter, length, minimum embedment into structural framing, etc.) meets the standards and requirements of the IRC and IEBC adopted by Montgomery County in COMCOR 08.00.02.

✓ I evaluated the existing roof structure of the building at the above address and analyzed its capacity to support the additional loads imposed by the PV system. I certify that no structural modifications of the existing roof structure are required. The existing roof structure meets the standards and requirements of the IRC and IEBC, adopted by Montgomery County in COMCOR 08.00.02, necessary to support the PV system.

✓ I evaluated the existing roof structure of the building at the above address and analyzed its capacity to support the additional loads imposed by the PV system. Structural modifications of the existing roof structure are required. Icertify that the roof structure, as modified on the drawings for this project, will support the additional loads imposed by the PV system. I further certify that design of the modified roof structure meets the standards and requirements of the IRC and IEBC, adopted by Montgomery County in COMCOR 08.00.02.

✓ I prepared or approved the construction documents for the mounting equipment, rack system, roof structure forthis project.

49993

Maryland PE License Number

Date 11/15/2024

Seal



ROFESSIONAL CERTIFICATION. I HEREBY SETTIFICATION. I HEREBY SET OF THESE DOCUMENTS WERE REPARED OR APPROVED BY ME, AND THAT I M. A DULY LICENSED PROFESSIONAL RIGHEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 4999, EXP. 1006/2026.

REVIEWED



Solar By Laura DiPasquale, M-NCPPC at 8:57 am, Dec 02, 2024

Because Tomorrow Matters

APPROVED Montgomery County Historic Preservation Commission

Ramata homen

Property Owners Name: Yuri Zelinksy
Property Owners Address: 7212 Spruce Avenue, Takoma Park, MD 20912
Address of installation if different than owner's address:
I certify that: I prepared or approved the electrical drawings and related documents for the photovoltaic {PV} system at the above location. The design of the PV system, and all electrical Installations and equipment, meets the standards and requirements of the National Electrical Code as adopted by Montgomery County in COMCOR 17.02.01. I reviewed and completed the Worksheet for PV System, which was attached to the permit application for the PV system at the above location.
15732
State Master Electrician License Number
Date: 11/18/2024
Signature: Matt Hum



Housing and Community Development [

Main Office 301-891-7119 Fax 301-270-4568 www.takomaparkmd.gov



75 Tako **APPROVED**

Montgomery County

Historic Preservation Commission

MUNICIPALITY LETTER

November 18, 2024

Ramala Man

To: Yuri Zelinsky

7212 Spruce Avenue, Takoma Park, MD 20912

ybz@verizon.net

(301) 537–8763

To: Department of Permitting Services

2425 Reedie Drive, 7th floor Wheaton, Maryland 20902

From: Planning and Development Services Division

THIS IS NOT A PERMIT – For Informational Purposes Only

VALID FOR ONE YEAR FROM DATE OF ISSUE

The property owner is responsible for obtaining all required permits from Montgomery County and the City of Takoma Park. If this property is in the **Takoma Park Historic District,** it is subject to Montgomery County Historic Preservation requirements.

Representative Name: Tina Crouse-Solar Energy World tcrouse@solarenergyworld.com 410-579-2009

Location of Project: 7212 Spruce Avenue

Proposed Scope of Work: Install (10) roof mounted solar panels, 4.00 kW

The purpose of this municipality letter is to inform you that the City of Takoma Park has regulations and city permit requirements that may apply to your project. This municipality letter serves as notification that, in addition to all Montgomery County requirements, you are required to comply with all City permitting requirements, including:

- Tree Impact Assessment/Tree Protection Plan
- Stormwater management
- City Right of Way

Failure to comply with these requirements could result in the issuance of a Stop Work Order and other administrative actions within the provisions of the law. Details of Takoma Park's permit requirements are attached on page 2.

The issuance of this letter does not indicate approval of the project nor does it authorize the property owner to proceed with the project. The City retains the right to review and comment on project plans during the Montgomery County review process.

REVIEWEDBy Laura DiPasquale, M-NCPPC at 8:57 am, Dec 02, 2024

The City of Takoma Park permits for the following issues:

Tree Impact Assessment/Tree Protection Plan/Tree Removal Application

Construction activities that occur within 50 feet of any urban forest tree (7 a located on the project property or on an adjacent property, may require a Tree Protection Plan Permit. Make sure to submit a request for a Tree Impact with the City's Urban Forest Manager if any urban forest tree is in the vicinity See the Tree Permits section of the City website for the specific conditions in required. Depending on the Urban Forest Manager's conclusion following the

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Plan Parmit as well. Separately, the

need to prepare a full Tree Protection Plan and apply for a Tree Protection Plan Permit as well. Separately, the removal of any urban forest tree will require a Tree Removal Permit application. The tree ordinance is detailed in the City Code, section 12.12. For permit information check: https://takomaparkmd.gov/services/permits/tree-permits. The City's Urban Forest Manager can be reached at 301-891-7612 or urbanforestmanager@takomaparkmd.gov.

Stormwater Management:

If you plan to develop or redevelop property, you may be required to provide appropriate stormwater management measures to control or manage runoff, as detailed in City Code section 16.04. All commercial or institutional development in the city must apply for a Stormwater Management Permit regardless of the size of the land disturbance. Additions or modifications to existing detached single-family residential properties do not require a Stormwater Management permit if the project does not disturb more than 5,000 square feet of land area. For more information visit: https://takomaparkmd.gov/government/public-works/stormwater-management-program/. The City Engineer should be contacted to determine if a City permit is required. The City Engineer can be reached at 301-891-7620.

City Right of Way:

- To place a construction dumpster or storage container temporarily on a City right of way (usually an
 adjacent road), you will need to obtain a permit. A permit is not required if the dumpster is placed in a
 privately-owned driveway or parking lot.
- If you plan to install a new driveway apron, or enlarge or replace an existing driveway apron, you need
 a Driveway Apron Permit.
- If you plan to construct a **fence** in the City right of way, you need to request a Fence Agreement. If approved, the Agreement will be recorded in the Land Records of Montgomery County.

For more information and applications for City permits, see: https://takomaparkmd.gov/services/permits/ or contact the Department of Public Works at 301-891-7633.

Failure to comply with the City's permitting requirements could result in the issuance of a Stop Work Order and other administrative actions within the provisions of the law.

esigned via SeamlessDocs.com

Fina Crouse

Key: 38bf2056622713c0bf979ea7ee94776a

Tina Crouse

11-18-2024

esigned via SeamlessDocs.com

Takoma Park Planning Division

Key: 1916841123e88a3ff4576219059d5fbe

11-18-2024



Marc Elrich
County Executive

Rabbiah Sabbakhan Director

HISTORIC AREA WORK PERMIT APPLICATION

Application Date: 11/18/2024

Application No: 1093679 AP Type: HISTORIC

Customer No: 1408761

Affidavit Acknowledgement

The Contractor is the Primary applicant authorized by the property owner This application does not violate any covenants and deed restrictions

Primary Applicant Information

Address 7212 SPRUCE AVE

TAKOMA PARK, MD 20912

Othercontact Solar Energy World (Primary)

Historic Area Work Permit Details

Work Type ALTER

Scope of Work Install (10) roof mounted solar panels, 4.00 kW

REVIEWED

By Laura DiPasquale, M-NCPPC at 8:57 am, Dec 02, 2024

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