

#### HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive

Robert K. Sutton

Chairman

Date: December 7, 2023

#### **MEMORANDUM**

TO: Rabbiah Sabbakhan, DPS Director Department of

**Permitting Services** 

FROM: Chris Berger

**Historic Preservation Section** 

Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit #1050721 - Solar Panels

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

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: Matt Johnson

Address: 7213 Maple 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 Chris Berger at 301-495-4571 or <a href="mailto:chris.berger@montgomeryplanning.org">chris.berger@montgomeryplanning.org</a> to schedule a follow-up site visit.





HAWP #:	at:	
submitted on:		
has been reviev	ved and de	termined 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 by \_\_\_\_\_\_ on \_\_\_\_\_\_. The approval memo and stamped drawings follow.



## **APPLICATION FOR** HISTORIC AREA WORK PERMIT HISTORIC PRESERVATION COMMISSION 301.563.3400

DATE ASSIGNED\_\_\_\_

HAWP#\_

FOR STAFF ONLY:

#### **APPLICANT:**

Name:		E-r	mail:	
Address:		Cit	ty:	Zip:
Daytime Phor	ne:	Та	x Account No	. <del>.</del>
AGENT/CONT	TACT (if applicable	e):		
Name:		E-r	mail:	
Address:		Cit	ty:	Zip:
Daytime Phor	ne:	Co	ontractor Regi	stration No.:
LOCATION OF	F BUILDING/PREM	IISE: MIHP # of Historic Pr	operty	
REVIEWE By Chris Be map of the ea	rger at 3:32 pm, assement, and document, and document and or Hearings and second secon	Monte of the mentation from the Historic Pres	APPROVED gomery County servation Commission	Name the Property? If YES, include a
Building Num	ber:	Street:		
Town/City:		Nearest Cross St	treet:	
Lot:	Block:	Subdivision:	Parcel: _	
for proposed be accepted New Co Additio Demoli Grading	d work are submifor review. Checkenstruction on its interest of the contraction of the co	tted with this application all that apply: Deck/Porch Fence Hardscape/Landscap Roof	n. Incomplet S S T De W	that all supporting items te Applications will not hed/Garage/Accessory Structure olar ree removal/planting /indow/Door ther: ion, that the application is correct
and accurate	and that the cons	truction will comply with pl	lans reviewed	and approved by all necessary the issuance of this permit.

# HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING [Owner, Owner's Agent, Adjacent and Confronting Property Owners] Owner's mailing address Owner's Agent's mailing address Adjacent and confronting Property Owners mailing addresses **REVIEWED** By Chris Berger at 3:32 pm, Dec 07, 2023 **APPROVED Montgomery County**

Historic Preservation Commission

Ramen hour

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:
Description of Work Proposed: Please give an overview of the work to be undertaken:
brown
<i>REVIEWED</i>

By Chris Berger at 3:32 pm, Dec 07, 2023

**APPROVED Montgomery County Historic Preservation Commission** Ranke houn

Description of Current Condition:	Proposed Work:
 brown	
	brown
Work Item 2:	
Description of Current Condition:	
1	REVIEWED
	By Chris Berger at 3:32 pm, Dec 07, 2023
Work Item 3:	
	Proposed Work:
Work Item 3:	Proposed Work:
	Proposed Work:
	Proposed Work:
Description of Current Condition:  APPROVED  Montgomery County	Proposed Work:
Description of Current Condition:  APPROVED	Proposed Work:
Description of Current Condition:  APPROVED  Montgomery County	Proposed Work:

#### HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Exc avation/Land scaing	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*

## **REVIEWED**

By Chris Berger at 3:32 pm, Dec 07, 2023

**APPROVED** 

**Montgomery County** 

**Historic Preservation Commission** 



APPROVED

Montgomery County

Historic Preservation Commission

Subject: Review of PV Electrical Design

**Letter Number:** 2311-032 **Date:** November 16, 2023

REVIEWED

By Chris Berger at 3:32 pm, Dec 07, 2023

To whom it may concern: permit office

I have reviewed the drawings for the installation of solar modules on the Residence located at:

Project: Matt Johnson Solar PV, Property Owner: Matt Johnson

Address: 7213 Maple Ave. Takoma Park, MD 20912

#### I certify that:

- 1) I prepared or approved the electrical drawings and related documents for the photovoltaic (PV) system at the above location.
- 2) 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.
- 3) I reviewed and completed the Worksheet for PV System, which was attached to the permit application for the PV system at the above location.

Sincerely,

Timothy E. Rumford, P.E.

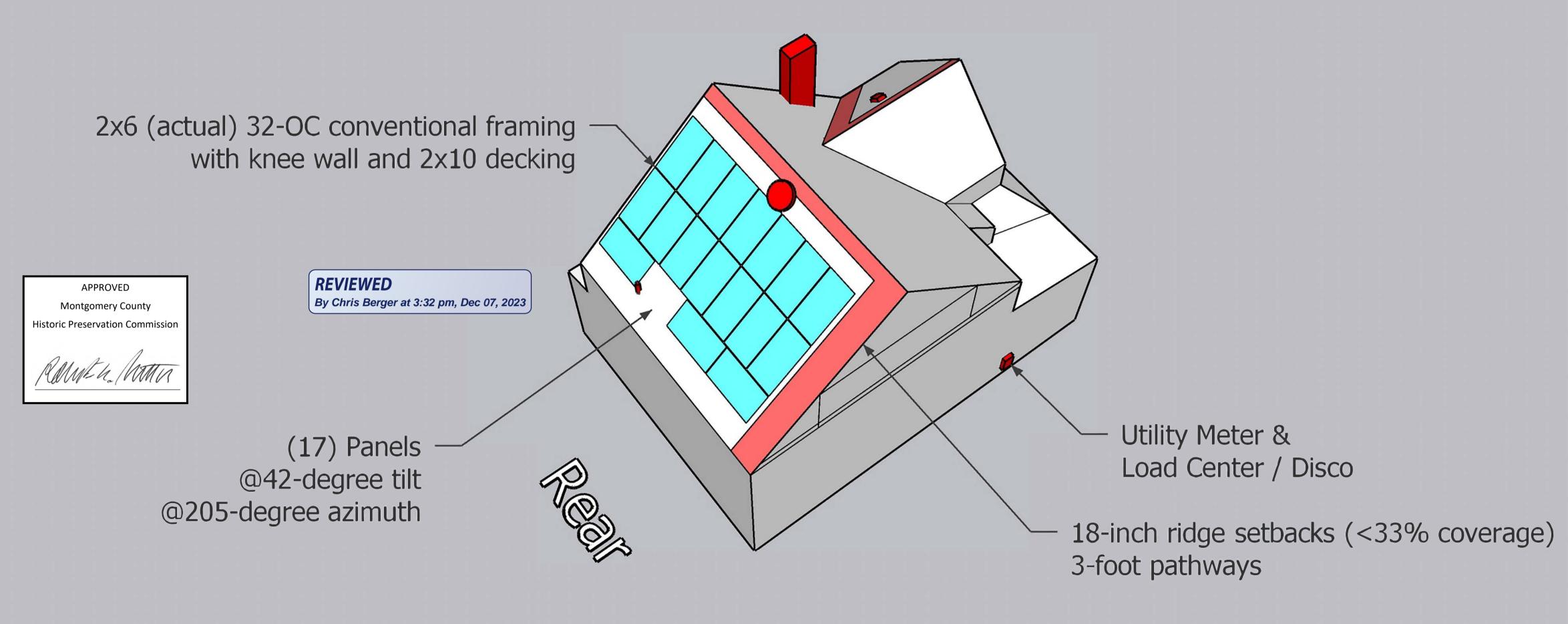
11/16/2023

MD License No.41066 Expiration date: 2025-09-08



VA

# (17) SunPower U-Series (Waaree) 400-watt Type-H AC Panels (6.8 kW-DC) on InvisiMount Racking with Pegasus Flashing





Marc Elrich
County Executive

Rabbiah Sabbakhan *Director* 

### HISTORIC AREA WORK PERMIT APPLICATION

Application Date: 11/16/2023

Application No: 1050721

AP Type: HISTORIC Customer No: 1278257

#### 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 7213 MAPLE AVE

TAKOMA PARK, MD 20912

Othercontact Bruni (Primary)

#### **Historic Area Work Permit Details**

Work Type ALTER

Scope of Work Install (17) SunPower 400-watt all-black solar panels to rear roof, flush, 5" above shingles.

**APPROVED** 

**Montgomery County** 

**Historic Preservation Commission** 

**REVIEWED** 

By Chris Berger at 3:32 pm, Dec 07, 2023



By Chris Berger at 3:32 pm, Dec 07, 2023

Subject: Review of PV Mechanical Design

Letter Number: 2311-033 Date: November 16, 2023

**APPROVED** Montgomery County **Historic Preservation Commission** Muth

Project: Matt Johnson Solar PV, Property Owner: Matt Johnson

Address: 7213 Maple Ave. Takoma Park, MD 20912

✓ I reviewed the design of the photovoltaic (PV) system, as designed by the manufacturer, and the design criteria utilized for the mounting equipment for the installation of 17 solar modules 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 COMCOR 08.00.02.

✓ The attachment of the solar shingles 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. I certify 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.

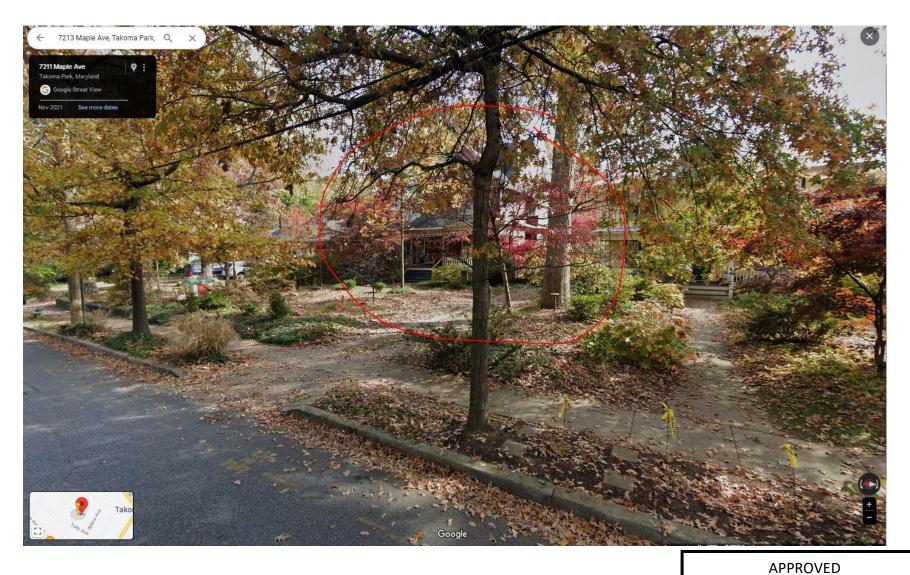
✓ I prepared or approved the construction documents for the mounting equipment, rack system, roof structure for this project.

41066, exp 2025-09-08

Maryland PE License Number 11/16/2023 Seal Date

Signature\_

Timothy E. Rumford, P.E.



By Chris Berger at 3:32 pm, Dec 07, 2023

## Montgomery County

**Historic Preservation Commission** 





By Chris Berger at 3:32 pm, Dec 07, 2023

#### **APPROVED**

Montgomery County
Historic Preservation Commission



By Chris Berger at 3:32 pm, Dec 07, 2023

APPROVED

Montgomery County

Historic Preservation Commission

## SOLAR INDIVIDUAL PERMIT PACKAGE

## **MATT JOHNSON**

6.8 kW GRID TIED PHOTOVOLTAIC SYSTEM

7213 MAPLE AVE. TAKOMA PARK, MD 20912

AHJ: MONTGOMERY COUNTY UTILITY: PEPCO

JOB NOTES

#### **SCOPE OF WORK:**

- (N) 86.8 kW PHOTOVOLTAIC SYSTEM
- (17) SUNPOWER (U-SERIES 400 W "BLACK") PV MODULES

## **REVIEWED**

By Chris Berger at 3:50 pm, Dec 07, 2023



**Montgomery County** 

Historic Preservation Commission

\* E AUNDO STATE OF THE STATE OF

1/16/2023

I HEREBY CERTIFY THAT THIS DOCUMENT WAS APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, MEMBERS LICENSE NO. 41066, EXPIRATION DATE: 2025-09-08

#### **CODE INFORMATION**

APPLICABLE CODES, LAWS AND REGULATIONS

2018 INTERNATIONAL BUILDING CODE

2018 INTERNATIONAL EXISTING BUILDING CODE

2018 INTERNATIONAL RESIDENTIAL CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE

2019 WSSC PLUMBING & FUEL GAS CODE

2018 INTERNATIONAL MECHANICAL CODE 2017 NFPA 70 NATIONAL ELECTRICAL CODE

### SATELLITE IMAGE



### DRAWING INDEX

#### PV SOLAR ARCHITECTURAL DRAWINGS

PVA-0 COVER SHEET
PVA-1 ARRAY LAYOUT
PVA-2 FRONT ELEVATION

#### PV SOLAR STRUCTURAL DRAWINGS

PVS-1 STRUCTURAL INFORMATION AND MOUNTING DETAILS

#### **PV SOLAR ELECTRICAL DRAWINGS**

STRUCTURAL CALCULATION, DETAILS

PVE-1 ELECTRICAL SINGLE-LINE DIAGRAM

& SPECIFICATIONS

PVE-2 ELECTRICAL CALCULATIONS
PVE-3 ELECTRICAL DATA & SPECIFICATIONS
PVE-4 EQUINOX GROUNDING DETAILS

PVE-5 ELECTRICAL MODULE SPECS PVE-6 MICRO-INVERTER SPECS

#### **PV SOLAR MOUNTING DRAWINGS**

PVM-1 HARDWARE MOUNTING DETAILS. SPECS.







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7213 MAPLE AVE.
AKOMA PARK, MD 20912
INDIVIDUAL PERMIT PACKAC

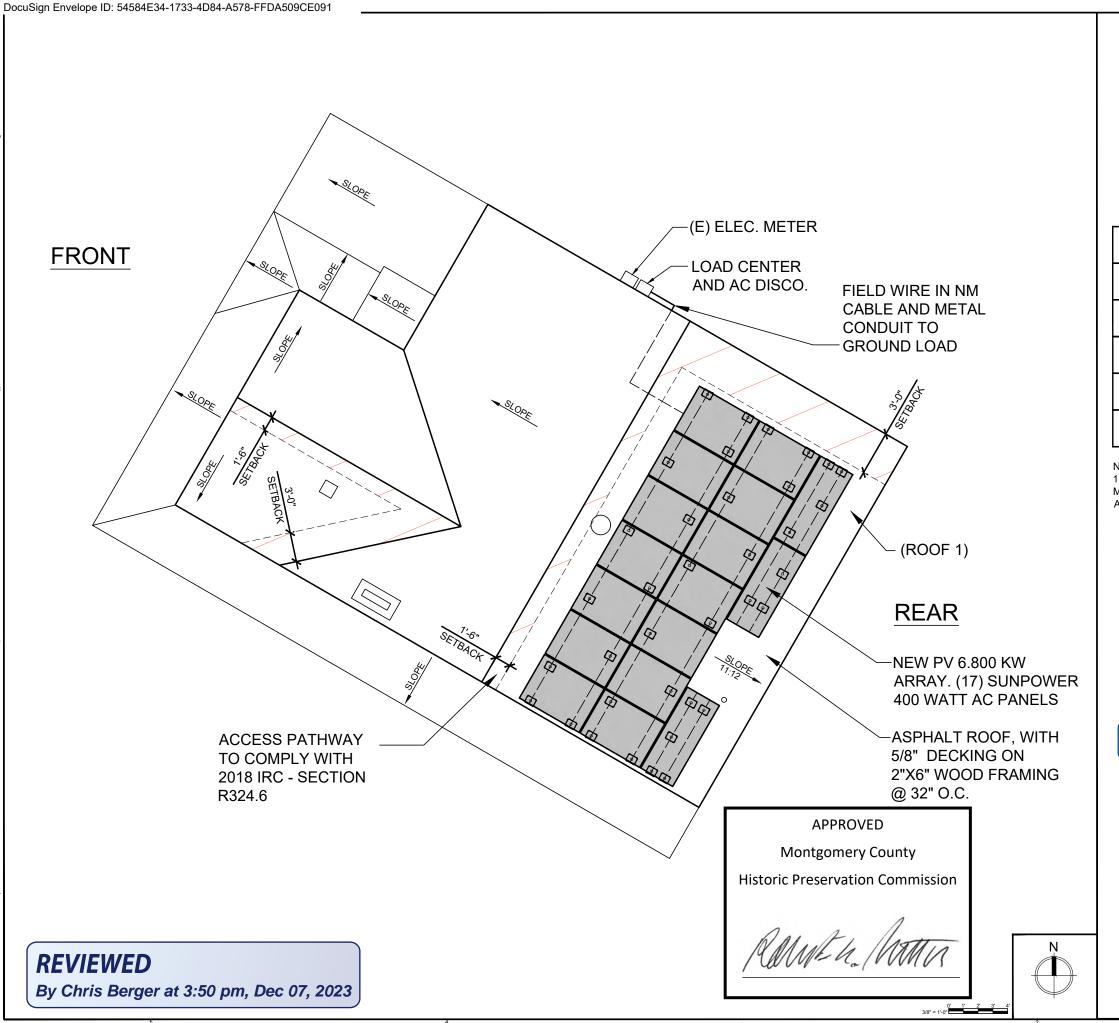
EVISION LEVEL DATE

EV-1 DATE

DRAWN BY: G. COBBS

ECT: 20912-01
DRAWN: 11-14-2023
E: NTS

PVA-0



TOTAL ROOF AREA: 1442 SQ. FT. TOTAL ARRAY AREA: 369 SQ. FT. TOTAL PERCENTAGE OF ROOF COVERED BY SOLAR: 25.59%

ROOF	1	-	-	-	-
MODULE QTY.	18	1	-	ı	-
AZIMUTH	205	ı	1	ı	-
PITCH	11:12	-	-	-	-

CONTRACT MODULE & QUANITY	17 SUNPOWER 400-WATT AC PANELS
MICROINVERTER TYPE & QUANITY	INTEGRATED WITH PANEL
ROOF TYPE	ASPHALT ROOF
ROOF ATTACHMENT QUANTITY	36
STORY HOME TYPE	2 - STORY
TOTAL ARRAY AREA	369 SQ. FT.

1. FIELD ADJUSTMENTS OF FEWER THAN 6" MAY BE ALLOWED BASED ON SITE CONDITIONS AND MEASUREMENTS.

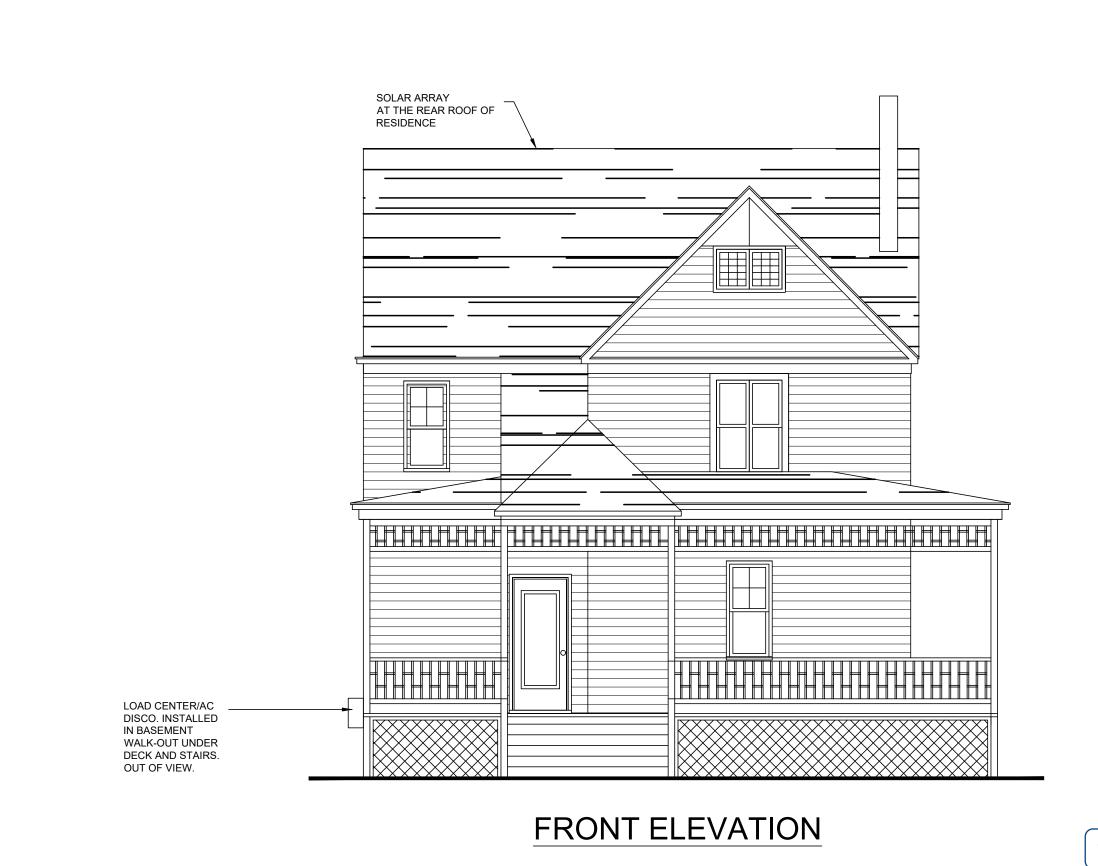


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MATT JOHNSON

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PVA-1



Montgomery County

**Historic Preservation Commission** 

**APPROVED** 

Ramath Man

## **REVIEWED**

By Chris Berger at 3:50 pm, Dec 07, 2023

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OF MAR E RUMO B W 41060

I HEREBY CERTIFY THAT THIS DOCUMENT WAS APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, MEMBERS LICENSE NO. 41066, EXPIRATION DATE: 2025-09-08



E ENERGY eatherization | HVAC | Solar | Geo





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MATT JOHNSON
W GRID-TIED PHOTOVOLTAIC SYSTEM
7213 MAPLE AVE.
TAKOMA PARK, MD 20912

REVISION LEVEL DATE
REV-1 DATE

DRAWN BY:

G. COBBS

INSTALLER:

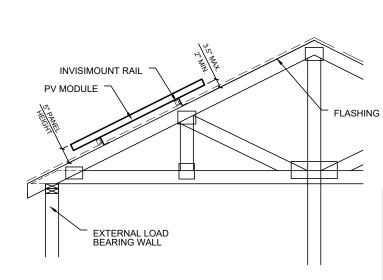
PROJECT: 20912

DATE DRAWN: 11-14

PVA-2

	TABLE 1 - ARRAYS INFORMATION								
	DEGREE TILT	ROOFING TYPE	ATTACHMENT TYPE	NO. OF STORIES	FRAMING TYPE (IN)	MAX RAFTER SPAN (FT.)	PENETRATION PATTERN (in.)	MAX. ATTACHMENT SPACING (in.)	MAX. RAIL OVERHANG (in.)
ROOF 1	42°	Asphalt Roof	Pegasus L-foot	2	2x6 Truss @ 32" O.C.	7.75'	Staggered	24"	8"
					-			-	

CHECK TABLE 2 FOR PENETRATION PATTERN GUIDE



Historic Preservation Commission Montgomery County APPROVED

## **APPROVED** Montgomery County **Historic Preservation Commission**



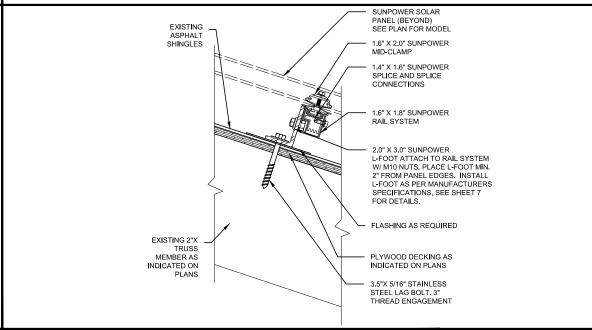
## **REVIEWED**

By Chris Berger at 3:50 pm, Dec 07, 2023

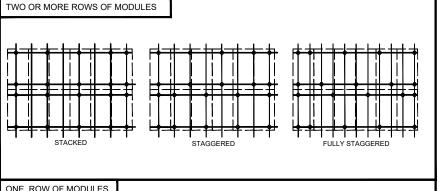


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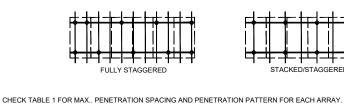
#### FIGURE 2: ROOF ATTACMENT DETAILS @ TRUSS / RAFTERS



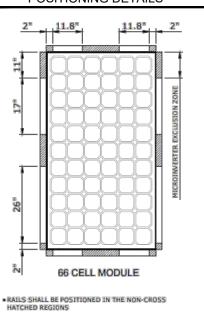
### TABLE 2: PENETRATION GUIDE FOR INSTALL



#### ONE ROW OF MODULES



#### FIGURE 3: MOUNTING CLAMP POSITIONING DETAILS



W





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MATT JOHNSON

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TEAN RUM 70 RO 1000 11/16/2023

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Structural Analysis

Project Name: Matt Johnson - Montgomery County, Takoma Park Historic District
7213 Maple Ave. Takoma Park, MD 20912

Address:

Description: (17) SunPower U-Series 400-watt 8LK Type-H AC Panels, SPR-U400-BLK-H-AC, Invisimount

racking with Pegasus Flashing

Load/Structure Assumptions (1)

Wind Snow load Roof Importance Wind Roof Wind Zone
Speed (psf) Height (ft) factor Cat Exposure
(mph)
115 30 <30 | II | B | 3

#### **Present Conditions and Structure Info**

2x6 (actual) 32-OC conventional framing with knee walls and 2x10 decking with shingle roof. @42-degree tilt, @ 205-degree azimuth

#### Wind Loading (High pitch Roofs)

Pnet = Net Design Wind Pressure (psf)

From ASCE 7-10, 100sf eff wind area, 27 to 45 deg, zone 3

 Down
 Up

 19.8
 23.8
 115 mph

 Module Areas (sf):
 21.5

Wind Force (lbs), Per module: Pnet \* Area

Down Up 425.6 511.6

Array number of fasteners 36
Array Number of Modules: 17

Number of fasteners per module: Force per fastener: (lbs)

Down Up 201.0 241.6

Pull out Force per fastener, lbs (2):

681 5/16" x 3.5" SS Lag. Assumes worst case wood species

Design Margin (Capability/Exposure). >2 required

Down Up

3.4 2.8 x margin

Uplift wind loads well below pull out force on fasterners. Down Force, since modules are flush, array not likely to affect forces compared to existing bare roof deflection. Uplift psf < negative snow load. Side wind loads negligible.

Snow Load

Modules are flush and not likely to affect snow drift

Dead Load

Module Weight (lbs) 50.9017

2.4 psf

OK (negligible effect)

Seismic criteria were not considered per provisions of ASCE 7-10 Section 13.1.4

ОК

NOTES

(1) ASCE 7-10

(2) NACBEP Guide on withdrawal loads for lag bolts per inch based on lag bolt size and wood type. Since wood type is not known, used the worst case which is white spruce, 227 lbs per inch for 5/16" lags. 3.5" bolt gives 3 inch penetration. 227 x 3.

GE ENERG





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> ARK, MD 20912 L PERMIT PACKAGE

7213 MAPLE A TAKOMA PARK, MI

NOSNHOC

MATT

DN LEVEL DATE
DATE

DRAWN BY:

G. COBBS

INSTALLER:

ROJECT: 20912-01

DATE DRAWN: 11-14-2023

PVS-2

Montgomery County

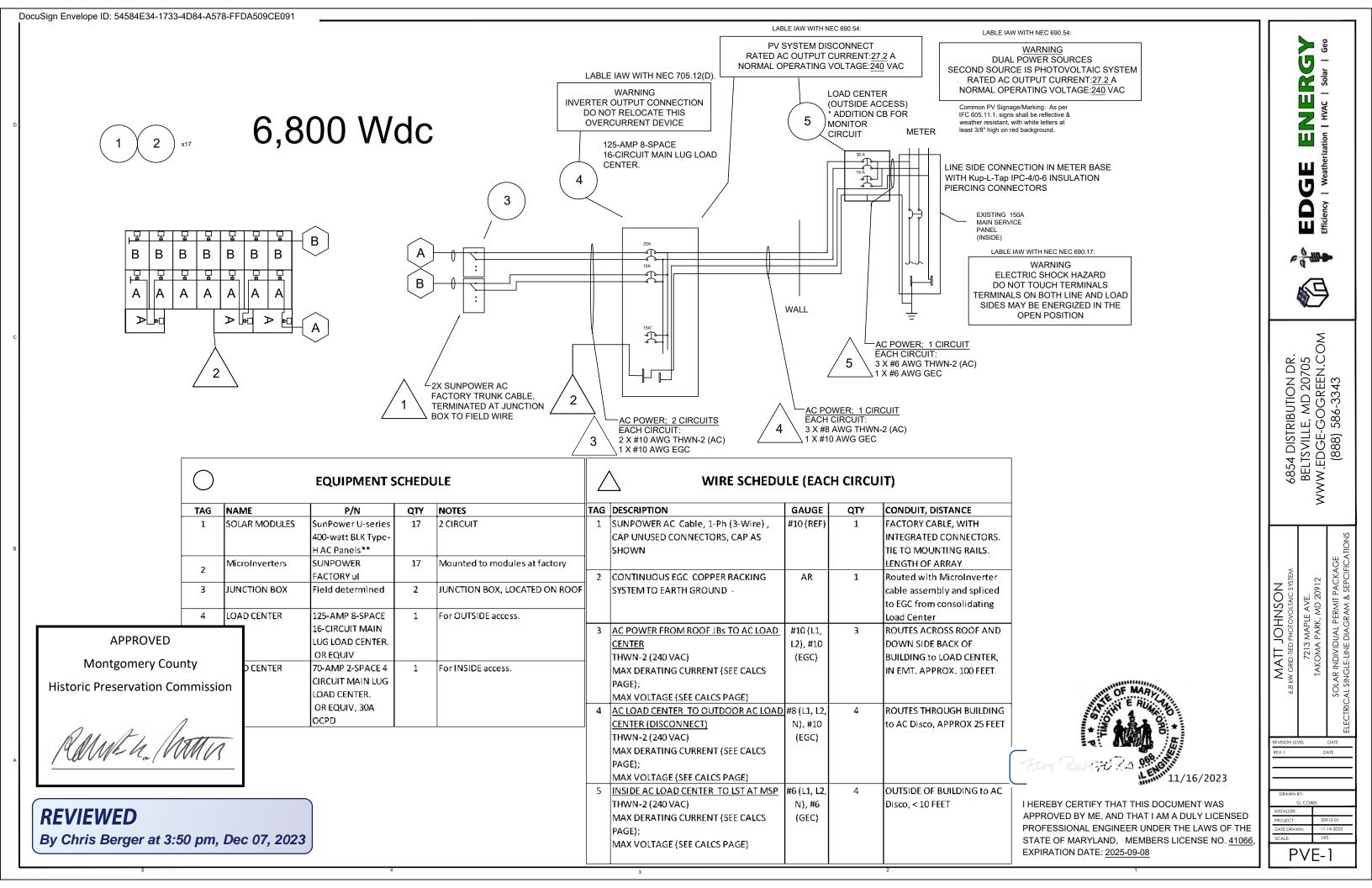
Historic Preservation Commission

**APPROVED** 

- MARIO / MAN

**REVIEWED** 

By Chris Berger at 3:50 pm, Dec 07, 2023



#### 1. Conductor Sizing per Art. 690.8(B)(1)

- a. Conductor must have 30 deg. Campacity >= 125% of continuous current per Art 215.2(A)(1).
- b. Conductor must have (after corrections for conditions of use) >= continuous current per Table 310.16
- c. Evaluate conductor temperature at termination per Art 110.14(C). Ampacity of wire derated for conditions of termination must be >= continuous current \* 1.25. All string terminations are rated at 90 degrees C.

#### 2. OOP Sizing per Art. 690.8(B)(1)

- a. Round up to next size per Art 240.4(B)
- 3. Conductor Sizing per Art. 690.8(B)(1)
- a. Conductor must have 30 deg. C ampacity >= 125% of continuous current per Art 215.2(A)(1).
- b. Conductor must have (after corrections for conditions of use) >= continuous current per Table 310.16
- c. Evaluate conductor temperature at termination per Art 110.14(C) Ampacity of wire derated for conditions of termination must be >= continuous current \* 1.25. All string terminations are rated at 75 degrees C min
- 4. OOP Sizing
- a. Round up to next size per Art 240.4(B)

#### **APPROVED**

**Montgomery County** 

.8(B)(1)

Campacity >= 125% of continuous

Kallet La Nothen

**Historic Preservation Commission** 

## **REVIEWED**

By Chris Berger at 3:50 pm, Dec 07, 2023

current per Art 215.2(A)(1).

- 7. Conductor Sizing per Art. 690.8(B)(1)
- a. Conductor must have 30 deg. Campacity >= 125% of continuous current per Art 215.2(A)(1).
- b. Conductor must have (after corrections for conditions of use) >= continuous current per Table 310.16
- c. Evaluate conductor temperature at termination per Art 110.14(C). Ampacity of wire derated for conditions of termination must be >= continuous current \* 1.25. All inverter output terminations are rated at 75 degrees C min.

## **ELECTRICAL CALCULATIONS**

Matt Johnson - Montgomery County, Takoma Park Historic District 7213 Maple Ave. Takoma Park, MD 20912

17 SunPower U-series 400-watt BLK Type-H AC Panels\*\* 400 6800 W STC Module Inverter 17 SUNPOWER FACTORY ut 384 W max 6528

#### Photovoltaic Module AC Electrical Specifications (REF):

Pnim (DC)= 400 W \*\* WAAREE WSMDi-400 with factory (Sunpower) mounted microinver (Type H/ Enphase IQ7HS) - i.e., same AC performance as M-Series: A410-BLK

AC Electrical Data

Output @ 240 (min/nom/max); 211/240/264 V Operating Frequency (min.-max.) 47-68 Hz Output Power Factor (min.) 1 AC Max. Continuous Output Current @ 240 V 1.6 A

Inverter Specifications:

Input Recom. (W) **FACTORY** OK Rated output (W) Max in DC Voltage **FACTORY** OK Peak output (W) Max In Current (A) FACTORY OK Nom. output Cur (A) max number în series: 10

ok

1-way len

384

384

1.6

OUTPUT

Conductor Sizing, Inverter Input 1-way length (ft)

NA, inverter input wiring is factory cable, designed for the purpose. Verify Max numbers of inverters per strings is equal/less than 10

B = 7max string: A 10 ok <=10 and

Conductor sizing, Inverter Output (each circuit- -BOUNDING/WORST CASE)

Icont= 16.00 A (1.45 A x number of inverters per ckt)

20.00 A Icont\*1.25+ OCP 20 A 15A FOR CIRC B

#10 AWG THWN-2 40 A NEC TABLE 310.16

Temp derate factor 0.58 unitless 67 C PER NEC TBL 310.15(B)(2)(.c)

23.2 A

Conductor sizing, Combined Output from Load Center via ac disco/cut off switch

lcont= 27.20 A (1.45A x number of inverters)

Icont\*1.25+ 34.00 A

derated:

Wire #8 AWG THWN-2 55 A NEC TABLE 310.16 0.87 unitless 45 C Temp derate factor

Conduit Fill factor 1 unitless Table 310.15(B)(20(a)

OK> Derated 47.85 A

OCP 30 A

Voltage Drop = (Amp\*2\*ft\*ohm/ft)/V <u>ft</u> ohm/ft Amp <u>Note</u> 240 Inverter output= 16.00 100 0.00126 #10

1.68% ok Inverter output= <3% 34.00 25.00 0.00078 240 #8 Load center output=

0.55% ok Load center output= <3% ok



I HEREBY CERTIFY THAT THIS DOCUMENT WAS APPROVED BY ME. AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, MEMBERS LICENSE NO. 41066.

EXPIRATION DATE: 2025-09-08

W Ш





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100

20.00

25.00

34.00

MATT JOHNSON

#### SOLAR ELECTRIC SYSTEM **DISCONNECT LOCATED IN MAIN SERVICE PANEL**

LOCATION: USE ONLY WHEN THE MAIN SERVICE DISCONNECT IS ON THE METER (METER MAIN) LABEL ON THE OUTSIDE OF THE METER **ENCLOSURE (WHEN THE METER ACTS AS** THE RAPID SHUTDOWN): NEC 705.10 & 690.56(B)

PV SYSTEM POINT OF INTERCONNECTION

LOCATION: MAIN SERVICE PANEL

**MARNING** 

**DUAL POWER SUPPLY** SOURCES: UTILITY GRID AND

SOLAR PHOTOVOLTAIC SYSTEM

LOCATION: MAIN SERVICE PANEL

NOMINAL OPERATING AC VOLTAGE:

NOMINAL OPERATING AC FREQUENCY:

MAXIMUM AC POWER:

MAXIMUM AC CURRENT:

60 HZ 6528 W 27.20 A

240V

MAXIMUM OVERCURRENT PROTECTIVE: DEVICE FOR AC MODULE PROTECTION:

30 A

LOCATION AT POINT OF INTERCONNECTION CODE SECTION NEC 690.52

WARNING - PHOTOVOLTAIC POWER SOURCE

IF APPLICABLE PER IFC 605.11.1.2

PHOTOVOLTAIC SYSTEM DISCONNECT

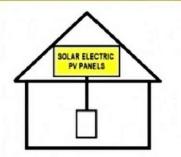
**OPERATING AMPS OPERATING VOLTAGE**  240V

LOCATION: PV SYSTEM DISCONNECT

## SOLAR PV SYSTEM EQUIPPED

WITH RAPID SHUTDOWN

**TURN RAPID SHUTDOWN** SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY



## **REVIEWED**

By Chris Berger at 3:50 pm, Dec 07, 2023



#### **CAUTION SOLAR CIRCUIT**

LABEL EVERY 10'

GENERAL NOTE: ALL LABELS ARE TO MEET NEC 690 AND ANSI Z535.4 STANDARDS. SPECIFIC SYSTEMS REQUIREMENTS MAY VERY AS PER IFC 605.11.1 SIGNS SHALL BE REFLECTIVE & WEATHER RESISTANT WITH WHITE LETTERS ON AT LEAST 3/8" HIGH ON RED BACKGROUND

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LOCATION: PV SYSTEM DISCONNECT



#### **ELECTRIC SHOCK HAZARD**

DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINES AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION

LOCATION: PV SYSTEM DISCONNECT



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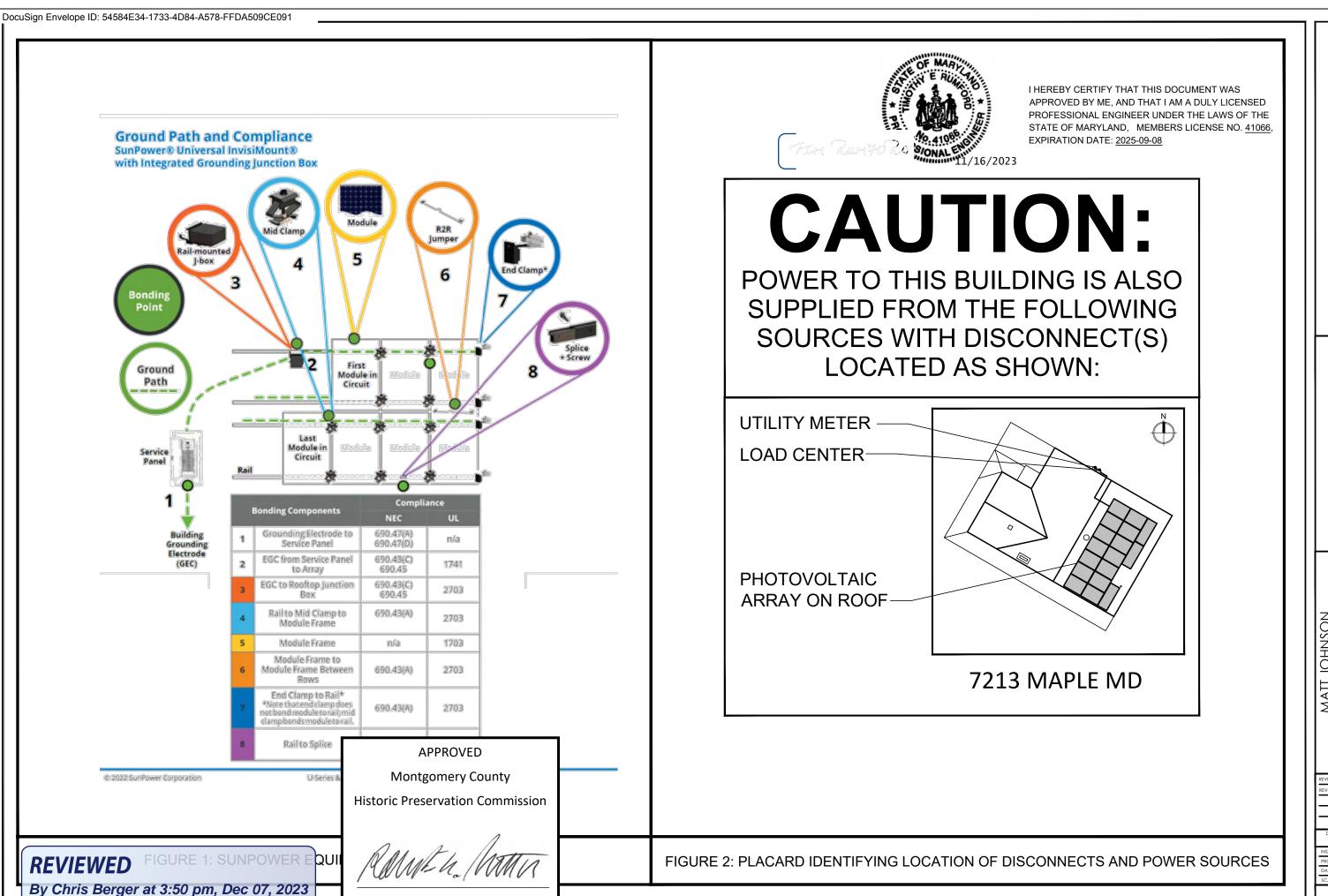
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Highest reliability &



under all climatic conditions



losses up to





PERC cells

enhanced crack tolerant 9BB module



Solit junction box

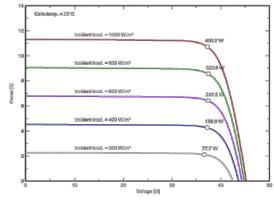
Reduced power 1/4 times



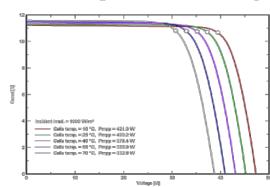
PID resistant with long term reliability

Sustain heavy wind & snow loads (2400 pa & 5400 pa)

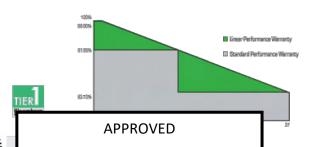
M6 Mono



## **I-V VARIATION** WITH TEMPERATURE



The Graphs are for reference purpose only. Please consult Weares technical team for further clarifications.



**Montgomery County** 

**Historic Preservation Commission** 



NATIONAL CERTIFICATIONS ^

Independent assessment of factor

**INTERNATIONAL &** 

IEC 61215 | IEC 61730 | UL61730

1-800-SUNPOWER sunpo

IEC TS 62804-1

**REVIEWED** 

By Chris Berger at 3:50 pm, Dec 07, 2023

EXPIRATION DATE: 2025-09-08

WSMDi-395 to WSMDi-415

## **SUNPOWER®**

### **ELECTRICAL CHARACTERISTICS**

Models	Pmax	(W)	Vmp (V)		Imp (A)		Isc (A)		Voc (V)		Module Eff. (%)
iviodels	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	IVIOUUIE EII. (90)
WSMD-395	395	296.8	37.77	34.70	10.47	8.55	11.24	9.08	45.00	42.10	19.78
WSMD-400	400	300.6	38.00	34.90	10.54	8.62	11.32	9.14	45.22	42.30	20.03

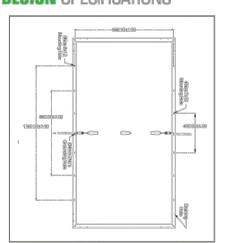
"Standard Test Conditions (STC) - 1000 W/m2 irradiance, Air Mass 1.5 and 25°G cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m2 irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m2 as per IEC 60904-1. Measuring Uncertainty ± 3%.

Inverter Model: Type H (Enphase IQ7H5)	@240 VAC	@208 VAC
Max. Continuous Output Power (VA)	384	369
Nom. (L-L) Voltage/Range <sup>3</sup> (V)	240 / 211-264	208 / 183-229
Max. Continuous Output Current (A)	1.60	1.77
Max, Units per 20 A (L-L) Branch Circuit <sup>4</sup>	10	9
CEC Weighted Efficiency	97,0%	96.5%
Nom. Frequency	60 Hz	60 Hz
Extended Frequency Range	47-68 Hz	47-68 Hz
AC Short Circuit Fault Current Over 3 Cycles	4.82 A	4,82 A
Overvoltage Class AC Port	III	101
AC Port Backfeed Current	18 mA	18 mA
Power Factor Setting	1.0	1.0
Power Factor (adjustable)	0.85 (Inductive) / 0.85 (capacitive)	0.85 (inductive) / 0.85 (capacitive)

#### **MECHANICAL CHARACTERISTICS**

Length x Width x Thickness (L x W x T)	1924 mm (L) x 1038 mm (W) x 35 mm (T)
Weight	22 kgs
Solar Cells per Module (Units) / Arrangement	132 cells / (11x6     11x6)
Solar Cell Type & Size	Mano PERC, 83 x 166 mm
Front Glass	3.2 mm Low fron and Tempered glass with ARC coating
Encapsulate	PID Free & UV Resistant
Junction Box (Protection degree/ Material )	IP68 / Weatherproof PPO
Cable & Connector (Protection degree / Type)	IP68 rated / Staubli MC4 Connector
Cable cross - section & Length	4 mm <sup>2</sup> & 1200mm
Frame	Anodized Aluminium Alloy, Anodization thickness ≥15 micron
Fire rating	Туре 2

#### **DESIGN** SPECIFICATIONS



#### THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.055
Temperature coefficient of Voltage (Voc), ß (%/°C)	-0.285
Temperature coefficient of Power (Pm), γ (%/°C)	-0.365
NOCT (°C)	43 ± 2
Operating temperature range (°C)	-40 to 85





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W GRID-TIED PHOTOVOLTAIC SYS

## **Enphase IQ7HS Microinverter**

The high-powered smart grid-ready **Enphase IQ7HS Microinverter™** with integrated MC4 connectors dramatically simplify the installation process while achieving the highest system efficiency.

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



#### Easy to Install

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

#### Efficient and Reliable

- · Optimized for high powered 66-cell\* modules
- · Highest CEC efficiency of 97.0%
- · More than a million hours of testing
- · Class II double-insulated enclosure
- UL listed

#### **Smart Grid Ready**

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- · Configurable for varying grid profiles

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**Historic Preservation Commission** 

ASE.

**REVIEWED** WAS LICEN By Chris Berger at 3:50 pm, Dec 07, 2023 wws or

11/16/2023

To learn more about Enphase offerings

EXPIRATION DATE: 2025-09-08

### **Enphase IQ7HS Microinverter**

INPUT DATA (DC)	IQ7HS-66-M-US	
Commonly used module pairings <sup>1</sup>	320 W - 460 W +	
Module compatibility	66-cell PV modules	
Maximum input DC voltage	59 V	
Peak power tracking voltage	38 V - 43 V	
Operating range	20 V - 59 V	
Min/Max start voltage	30 V / 59 V	
Max DC short circuit current (module Isc)	15 A	
Overvoltage class DC port	II	
DC port backfeed current	0 A	
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit	
OUTPUT DATA (AC)	@240 VAC	@208 VAC
Peak output power	384 VA	369 VA
Maximum continuous output power	384 VA	369 VA
Nominal (L-L) voltage/range²	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.60 A (240V)	1.77 A (208V)
Nominal frequency	60 Hz	60 Hz
Extended frequency range	47 to 68 Hz	47 to 68 Hz
AC short circuit fault current over 3 cycles	4.82 A	4.82 A
Maximum units per 20 A (L-L) branch circuit <sup>3</sup>	10	9
Overvoltage class AC port	III	III
AC port backfeed current	18 mA	18 mA
Power factor setting	1.0	1.0
Power factor (adjustable)	0.85 leading0.85 lagging	0.85 leading0.85 lagging
EFFICIENCY	@240 V	@208 V
CEC weighted efficiency	97.0 %	96.5 %
MECHANICAL DATA		
Ambient temperature range	-40°C to +60°C	
Relative humidity range	4% to 100% (condensing)	
Connector type	Staubli made MC4	
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (wit	thout bracket)
Weight	1.08 kg (2.38 lbs)	
Cooling	Natural convection - No fans	
Approved for wet locations	Yes	
Pollution degree	PD3	
Enclosure	Class II, corrosion resistant polymeric enclosure	
Environmental category / UV exposure rating	NEMA type 6 / outdoor	
Altitude	2000m	
FEATURES		
Communication	Power Line Communication (PLC)	
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect means required by NEC 690 and C22.1-2018 Rule 64-220.	
Compliance	CA Rule 21 (UL 1741-SA), HECO v1.1 UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.	

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

#### To learn more about Enphase offerings, visit enphase.com

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#### Simple and Fast Installation

- Integrated module-to-rail grounding
- · Pre-assembled mid and end clamps
- · Levitating mid clamp for easy placement
- · Mid clamp width facilitates even module spacing
- Simple, pre-drilled rail splice
- UL 2703 Listed integrated grounding

#### Flexible Design

- Addresses nearly all sloped residential roofs
- · Design in landscape and portrait
- · Rails enable easy obstacle management

#### Customer-Preferred Aesthetics

- #1 module and #1 mounting aesthetics
- Best-in-class system aesthetics
- · Premium, low-profile design
- Black anodized components
- Hidden mid clamps and end clamps hardware, and capped, flush rails

#### Part of Superior System

- Built for use with SunPower DC and AC modules
- Best-in-class system reliability and aesthetics
- · Combine with SunPower modules and monitoring app



#### **Elegant Simplicity**

SunPower® InvisiMount™ is a SunPower-designed rail-based mounting system. The InvisiMount system addresses residential sloped roofs and combines faster installation time, design flexibility, and superior aesthetics. The InvisiMount product was specifically envisioned and engineered to pair with SunPower modules. The resulting system-level approach will amplify the aesthetic and installation benefits for both homeowners and installers.

11/16/2023



**APPROVED** Montgomery County Historic Preservation Commission

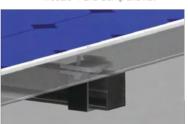
LHERERY CERTIFY THAT THIS

**REVIEWED** By Chris Berger at 3:50 pm, Dec 07, 2023

#### Module\* / Mid Clamp and Rail



Module\* / End Clamp and Rail







Rail & Rail Splice



Ground Lug Assembly





InvisiMount Component Details		
Component	Material	Weight
Mid Clamp	Black oxide stainless steel AISI 304	63 g (2.2 oz)
End Clamp	Black anodized aluminum alloy 6063-T6	110 g (3.88 oz)
Rail	Black anodized aluminum alloy 6005-T6	830 g/m (9 oz/ft)
Rail Splice	Aluminum alloy 6005-T5	830 g/m (9 oz/ft)
Ground Lug Assembly	304 stainless (A2-70 bolt; tin-plated copper lug)	106.5 g/m (3.75 oz)
End Cap	Black acetal (POM) copolymer	10.4 g (0.37 oz)

Roof Attachment Hardware Supported by InvisiMount System Design Tool		
Application	Composition Shingle Rafter Attachment     Composition Shingle Roof Decking Attachment     Curved and Flat Tile Roof Attachment	

missing and a personal designations		
Temperature	-40° C to 90° C (-40° F to 194° F)	
Max. Load	2400 Pa uplift 5400 Pa downforce	

invisivourit warranties And Certifications			
Warranties	25-year product warranty 5-year finish warranty		
Certifications	UL 2703 Listed Class A fire rating when distance between roof surface and bottom of SunPower module frame is $\leq$ 3.5"		

Refer to roof attachment hardware manufacturer's documentation

\*Module frame that is compatible with the InvisiMount system required for hardware interoperability

Universal Interface for Other Roof Attachments

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sunpower.com Document #509506 Rev B







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SOLAR INDIVIDUAL PERMIT PACKAGE HARDWARE MOUNTING DETAILS, SPEC

MATT JOHNSON

PVM-1

## City of Takoma Park

### Housing and Community Development Department

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



7500 Maple Avenue Takoma Park, MD 20912

#### MUNICIPALITY LETTER

November 20, 2023

703-725-951

To: Matt Johnson

To:

7213 Maple Ave. Takoma Park, MD 20912

mattj6434@gmail.com

Department of Permitting Services

2425 Reedie Drive, 7<sup>th</sup> floor Wheaton, Maryland 20902

From: Planning and Development Services Division

#### **APPROVED**

**Montgomery County** 

**Historic Preservation Commission** 

Rame h. M

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:** Anthony Colella permits@edge-gogreen.com 434-568-7220

**Location of Project:** 7213 Maple Ave. Takoma Park, MD 20912

Proposed Scope of Work: Install (17) SunPower 400-watt all black solar panels to rear roof.

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 MREVIEWED review process.

By Chris Berger at 3:51 pm, Dec 07, 2023

## City Of Takoma Park

#### 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 and 5/8" in trunk diameter or greater), located on the project property or on an adjacent property, may require a Tree Impact Assessment and possibly a Tree Protection Plan Permit. Make sure to submit a request for a Tree Impact Assessment and schedule a site visit with the City's Urban Forest Manager if any urban forest tree is in the vicinity of proposed construction activities. See the Tree Permits section of the City website for the specific conditions in which a Tree Impact Assessment is required. Depending on the Urban Forest Manager's conclusion following the Tree Impact Assessment, you may 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-301-891-7612 The City's Urban Forest Manager can be reached 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: <a href="https://takomaparkmd.gov/government/public-works/stormwater-management-program/">https://takomaparkmd.gov/government/public-works/stormwater-management-program/</a>. 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.

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Montgomery County

Historic Preservation Commission

for City permits, see: <a href="https://takomaparkmd.gov/services/permits/">https://takomaparkmd.gov/services/permits/</a> or as at 301-891-7633.

tting requirements could result in the issuance of a Stop Work Order and provisions of the law.

Anthony Colella

11-16-2023

Takoma Park Planning Division

11-20-2023

REVIEWED

amth /

By Chris Berger at 3:51 pm, Dec 07, 2023



## **APPLICATION FOR** HISTORIC AREA WORK PERMIT HISTORIC PRESERVATION COMMISSION 301.563.3400

HAWP#\_\_ DATE ASSIGNED\_\_\_\_

FOR STAFF ONLY:

#### **APPLICANT:**

Name:	E-mail: _		
Address:	City:	Zip:	
Daytime Phone:	Tax Acco	ount No.:	
AGENT/CONTACT (if applicab	le):		
Name:	E-mail: _		
Address:	City:	Zip:	
Daytime Phone:	Contract	Contractor Registration No.:	
LOCATION OF BUILDING/PRE	MISE: MIHP # of Historic Property	y	
Is there an Historic Preservation map of the easement, and doci	n/Land Trust/Environmental Ease umentation from the Easement H	lual Site Nameement on the Property? If YES, include a older supporting this application.  S Required as part of this Application?	
Building Number:	Street:		
Town/City:	Nearest Cross Street: _		
Lot: Block:	Subdivision: P	Parcel:	
for proposed work are subm be accepted for review. Chec New Construction Addition Demolition Grading/Excavation	hitted with this application. Inc ek all that apply: Deck/Porch Fence Hardscape/Landscape Roof	verify that all supporting items omplete Applications will not Shed/Garage/Accessory Structure Solar Tree removal/planting Window/Door Other:	
and accurate and that the con	struction will comply with plans re	eviewed and approved by all necessary ition for the issuance of this permit.	