

MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION
STAFF REPORT

Address:	7305 Takoma Avenue, Takoma Park	Meeting Date:	6/14/2023
Resource:	Contributing Resource Takoma Park Historic District	Report Date:	6/7/2023
Applicant:	Richard Henrich	Public Notice:	5/31/2023
Review:	HAWP	Tax Credit:	N/A
Permit Number:	1028895	Staff:	John Liebertz
PROPOSAL:	Installation of solar panels		

STAFF RECOMMENDATION

Staff recommends that the Historic Preservation Commission (HPC) **approve with (2) conditions** the HAWP application with final approval of all details delegated to staff:

1. The applicant shall submit justification for the exterior conduit (instead of an interior placement) and an elevation/annotated photograph that illustrates the location of the exterior conduit if required
2. The applicant shall submit specification sheets for all exterior inverters, combiners, etc. and an annotated photograph that illustrates their approximate location adjacent to the existing utility meters.

ARCHITECTURAL DESCRIPTION

SIGNIFICANCE: Contributing Resource within the Takoma Park Historic District
STYLE: Craftsman-styled Bungalow
DATE: 1923

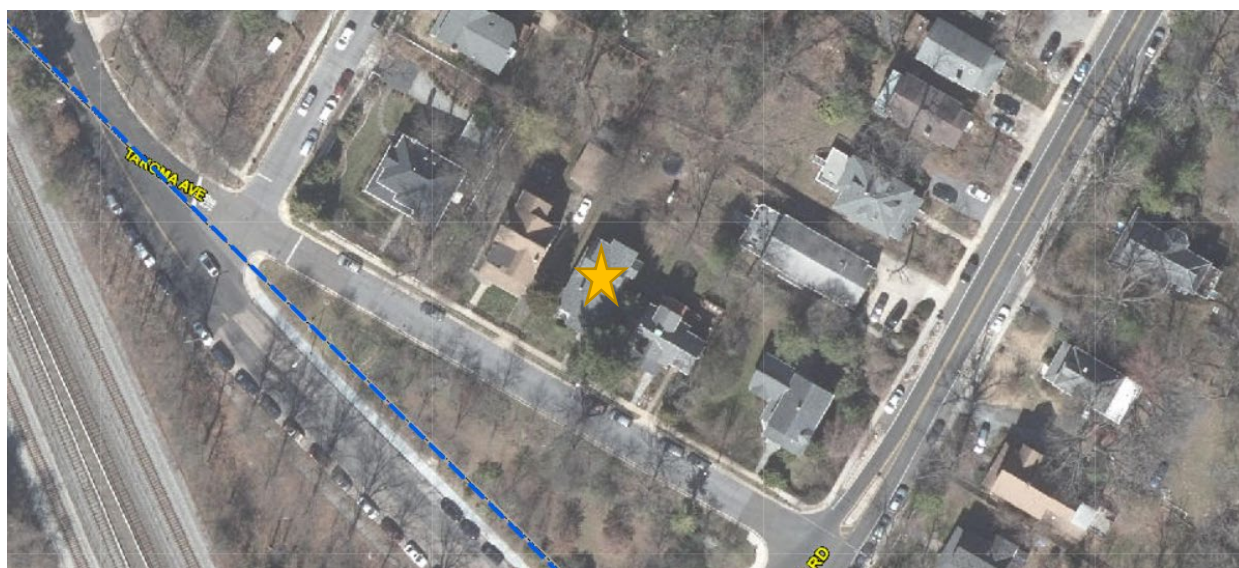


Figure 1: The subject property at 7305 Takoma Avenue (noted with the yellow star).

PROPOSAL

The applicant proposes to install thirteen (13) roof-mounted solar panels in three arrays. Two of the arrays are located on the historic house. These arrays on the eastern and western roof slopes consist of six (6) and four (4) panels, respectively. A third array consisting of three (3) panels is located on the northern slope of the rear shed dormer on the non-historic addition.

APPLICABLE GUIDELINES

The Historic Preservation Office and Historic Preservation Commission (HPC) consult several documents when reviewing alterations and new construction within the Takoma Park Historic District. These documents include the historic preservation review guidelines in the approved and adopted amendment for the *Takoma Park Historic District (Guidelines)*, *Montgomery County Code Chapter 24A (Chapter 24A)*, and the *Secretary of the Interior's Standards for Rehabilitation (Standards)*, and the HPC's *Policy No. 20-01 ADDRESSING EMERGENCY CLIMATE MOBILIZATION THROUGH THE INSTALLATION OF ROOF-MOUNTED SOLAR PANELS*. The pertinent information in these four documents is outlined below.

Takoma Park Historic District Guidelines

There are two broad planning and design concepts which apply to all categories. These are:

- The design review emphasis will be restricted to changes that are all visible from the public right-of-way, irrespective of landscaping or vegetation (it is expected that the majority of new additions will be reviewed for their impact on the overall district), and
- The importance of assuring that additions and other changes to existing structures act to reinforce and continue existing streetscape, landscape, and building patterns rather than to impair the character of the historic district.

A majority of the buildings in the Takoma Park Historic District have been assessed as being "Contributing Resources." While these buildings may not have the same level of architectural or historical significance as Outstanding Resources or may have lost some degree of integrity, collectively, they are the basic building blocks of the Takoma Park district. They are important to the overall character of the district and the streetscape due to their size, scale, and architectural qualities, rather than for their particular architectural features.

Contributing Resources should receive a more lenient level of design review than those structures that have been classified as Outstanding. This design review should emphasize the importance of the resource to the overall streetscape and its compatibility with existing patterns rather than focusing on a close scrutiny of architectural detailing. In general, however, changes to Contributing Resources should respect the predominant architectural style of the resource.

The following guidance which pertains to this project are as follows:

- All exterior alterations, including those to architectural features and details, should be generally consistent with the predominant architectural style and period of the resource and should preserve the predominant architectural features of the resource; exact replication of existing details and features is, however, not required.
- Minor alterations to areas that do not directly front on a public right-of-way such as vents, metal stovepipes, air conditioners, fences, skylights, etc. – should be allowed as a matter of course;

alterations to areas that do not directly front on a public way-of-way which involve the replacement of or damaged to original ornamental or architectural features are discouraged, but may be considered and approved on a case-by-case basis.

- Alterations to features that are not visible from the public right-of-way should be allowed as a matter of course.
- All changes and additions should respect existing environmental settings, landscaping, and patterns of open space.

Montgomery County Code, Chapter 24A-8

The following guidance which pertains to this project are as follows:

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:
 - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
 - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter;

Secretary of the Interior's Standards for Rehabilitation

The Secretary of the Interior defines rehabilitation as “the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.” The applicable *Standards* are as follows:

- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
- 10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

Historic Preservation Commission Policy No. 20-01: Addressing Emergency Climate Mobilization Through The Installation of Roof-Mounted Solar Panels

Now, THEREFORE:

WHEREAS, Historic Area Work Permit decisions are guided by the criteria in Section 24A, The Secretary of the Interior's Standards for Rehabilitation, and pertinent guidance from applicable master plan amendments and/or site or district-specific studies;

WHEREAS, The Secretary of the Interior's Standards for Rehabilitation as interpreted by the National Park Service limit the placement of rooftop solar panels under Standards 2, 9, and 10 to less conspicuous locations;

WHEREAS, the County Council has established a Climate Emergency;

WHEREAS, the Historic Preservation is a body established by the County Executive and County Council;

WHEREAS, Section 24-8(b)(6) states, "In balancing the interest of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit;"

WHEREAS, the widespread use of solar panels, both for hot water and for electricity production, will reduce greenhouse gases in the county, in accordance with the aims of the Emergency Climate Mobilization resolution (Resolution No.: 18-974), it shall be the policy of the Historic Preservation Commission that:

1. The preferred locations for solar panel installation(s) on a designated historic site or an historic resource located within an historic district is a) on the rear of the property, b) on non-historic building additions, c) on accessory structures, or d) in ground-mounted arrays;
2. If it is not feasible to install solar panels in one of the identified preferred locations due to resource orientation or other site limitations; and,
3. The roof is determined to be neither architecturally significant, nor a character-defining feature of the resource, nor is it a slate or tile roof, that unless it can be demonstrated that the solar array will be installed without damaging the historic character of the resource or historic fabric; then
4. The public welfare is better served by approving a Historic Area Work Permit for solar panels on all visible side or front roof slopes under Section 24A-8(b)(6).
5. A Historic Area Work Permit (HAWP) is required for all work referenced in this policy.

STAFF DISCUSSION

The subject property is a Contributing Resource to the Takoma Park Historic District and features a one-story, Craftsman-influenced house constructed in 1923. The house has undergone numerous alterations since its construction. In 2008, the current property owners started a rehabilitation and restoration of the house which had been significantly altered in the 1960s. The following year, the Historic Preservation Commission approved HAWP#37/3-09M that allowed for the construction of the rear two-story addition and resulted in the present-day building form.¹



*Figure 2: View of the subject property at 7305 Takoma Avenue, 2008 and 2014.
Source: Montgomery Planning and Microsoft Bing Maps.*



*Figure 3: Aerial view, 2022. The red arrow points to the locations of the three proposed arrays.
Source: ConnectExplorer.*

¹ For more information, <https://mcatlas.org/filetransfer/HistoricPreservation/Temp%20Files/I.G%20-%207305%20Takoma%20Avenue.%20Takoma%20Park.PDF>.

The applicant proposes to install thirteen (13) roof-mounted solar panels in three arrays. Two of the arrays are located on the historic house. These arrays on the eastern and western roof slopes consist of six (6) and four (4) panels, respectively. A third array consisting of three (3) panels is located on the northern slope of the rear shed dormer on the non-historic addition. The utility disconnect and AC combiner would be installed on the northwest corner of the building (towards to the front porch) at the location of the existing utility meter.

Staff finds that the proposed placement of the solar arrays meet the applicable guidelines and recommends approval. The HPC and staff utilize *Policy Guidance #20-01: Solar Technology (2021)* as the baseline for their review and to articulate their findings in the review of solar technology. The policy outlines the most to least preferred locations for solar arrays. The most preferred location for solar systems is a freestanding array in the rear yard, but this location is not feasible at the subject property due to the size of the lot and existing tree canopy. The second preferred location is a roof-mounted array on an accessory or non-historic building. There is no secondary resource on the property. The third preferred location is a roof-mounted array on a non-historic addition of the main house. The applicant proposed the smallest array—the three panel array—on the rear, non-historic addition. These panels would not be visible from the public rights-of-way and the array matches the slope of the roof. Therefore, staff recommends approval of these three (3) panels as they would not adversely affect the character of the historic house or streetscape and complies with *Policy Guidance #20-01: Solar Technology (2021)*.

The least preferred location for a roof-mounted solar array is on the historic house. The applicant proposes to install two arrays of six (6) and four (4) panels on the eastern and western slopes of the front gable roof, respectively. The roof is visible from Takoma Avenue, but neither the roof nor the asphalt shingle material are character defining features of the dwelling. Therefore, the HPC should approve solar arrays on this roof slope in accordance with the installation guidance described in *Policy Guidance #20-01: Solar Technology (2021)*.

Relevant guidance includes that traditional roof-mounted solar panels should: 1) have a low-profile and be mounted less than or equal to six inches above the surface of the roof (to the face of the panel); 2) be consistent with the existing slope of the supporting roof; 3) be setback from the edges and ridge of the roof; and 4) be arranged in an organized configuration and avoid disjointed or multi-roof solutions. The solar arrays—in particular the arrays visible on the original section of the house—have a low-profile, are consistent with the slope of the roof, and arranged in an organized configuration. The two arrays are setback 18-inches from the ridge of the gable roof. Therefore, the HPC should approve the proposal at it meets the general guidance described in *Policy Guidance #20-01: Solar Technology (2021)*.

Overall, staff finds that the panels will not adversely affect the character defining streetscape of the historic district and recommends approval. There are no Outstanding Resources with views of the subject property. In addition, the surrounding houses at 7303 Takoma Avenue (to the east), 7310 Piney Branch Road (to the northeast), and 7305 Baltimore Avenue (to the northwest) are non-contributing resources to the historic district. The property owner (current or future) could remove the proposed solar panels at a later date without impairing the integrity of the historic house or district.

Staff recommends approval for the placement of exterior conduit wire with a condition. *Policy Guidance #20-01: Solar Technology (2021)* states that all conduits for connections to electrical meters should be placed on the inside of the building or on a secondary elevation. The proposal includes conduit wire running along the ridge of the rear addition to the west elevation (Figure 4). This conduit should be placed within the building to the greatest extent possible or tucked under the overhanging eave on the west elevation to reduce visibility from the public rights-of-way. Staff requests the applicant submit justification for the exterior conduit and a drawing/annotated photograph that illustrates the location of the exterior conduit (if required).

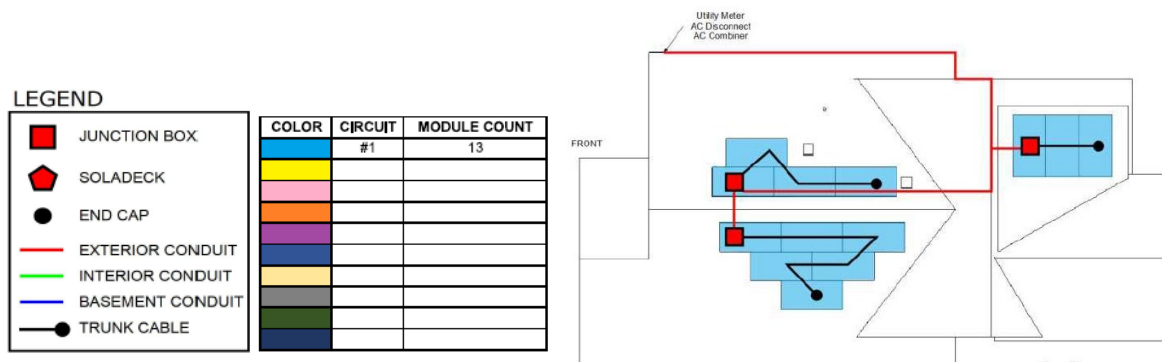


Figure 4: The proposed solar arrays and exterior conduit (red line) at 7305 Takoma Avenue.

Source: Applicant.

Staff recommends approval for the placement of the all exterior disconnects and combiners for the solar array with a condition. While this equipment is placed within view of the public right-of-way on the west elevation (towards the front porch), it is adjacent to an existing utility meter and would not further diminish the integrity of the resource. The applicant should submit specification sheets for all exterior hardware and an annotated photograph that illustrates its approximate location on the elevation.

After full and fair consideration of the applicant's submission, staff finds the proposal, as modified by the condition, consistent with the Criteria for Issuance in Chapter 24A-8(b), (1), (2), and (d), having found the proposal is consistent with the *Secretary of the Interior's Standards for Rehabilitation* #2, #9, and #10, and *Takoma Park Historic District Guidelines*, and the HPC's Policy No. 20-01 as outlined above.

STAFF RECOMMENDATION

Staff recommends that the Commission **approve with two (2) conditions** the HAWP application with final approval delegated to staff:

1. The applicant shall submit justification for the exterior conduit (instead of an interior placement) and an elevation/annotated photograph that illustrates the location of the exterior conduit if required
2. The applicant shall submit specification sheets for all exterior inverters, combiners, etc. and an annotated photograph that illustrates their approximate location adjacent to the existing utility meters.

under the Criteria for Issuance in Chapter 24A-8(b), (1), (2), and (d), having found that the proposal, as modified by the condition, is consistent with the *Takoma Park Historic District Guidelines*, and therefore will not substantially alter the exterior features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and in conformance with HPC *Policy No.20-01*;

and with the *Secretary of the Interior's Standards for Rehabilitation* #2, #9, and #10.

and with the general condition that the applicant shall present an electronic set of drawings, if applicable, to Historic Preservation Commission (HPC) staff for review and stamping prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make any alterations to the approved plans. Once the work is completed the applicant will contact the staff person assigned to this application at 301-563-3400 or john.liebertz@montgomeryplanning.org to schedule a follow-up site visit.



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

FOR STAFF ONLY:
HAWP# 1028895
DATE ASSIGNED _____

APPLICANT:

Name: Richard Henrich

E-mail: rhenrich@erols.com

Address: 7305 Takoma Avenue

City: Takoma Park Zip: 20912

Daytime Phone: 2024410832

Tax Account No.: 01073568

AGENT/CONTACT (if applicable):

Name: Fusion Solar Services/ Ola Carew

E-mail: permits@fusionss.net

Address: 3600 Commerce Drive Ste 601

City: Halethorpe Zip: 21227

Daytime Phone: 4434253023

Contractor Registration No.: MHIC 30991

LOCATION OF BUILDING/PREMISE: MIHP # of Historic Property _____

Is the Property Located within an Historic District? Yes/District Name Takoma Park
 No/Individual Site Name _____

Is there an Historic Preservation/Land Trust/Environmental Easement on the Property? If YES, include a map of the easement, and documentation from the Easement Holder supporting this application.

Are other Planning and/or Hearing Examiner Approvals /Reviews Required as part of this Application? (Conditional Use, Variance, Record Plat, etc.?) If YES, include information on these reviews as supplemental information.

Building Number: _____ Street: _____

Town/City: _____ Nearest Cross Street: _____

Lot: _____ Block: _____ Subdivision: _____ Parcel: _____

TYPE OF WORK PROPOSED: See the checklist on Page 4 to verify that all supporting items for proposed work are submitted with this application. Incomplete Applications will not be accepted for review. Check all that apply:

- | | | |
|---|--|--|
| <input type="checkbox"/> New Construction | <input type="checkbox"/> Deck/Porch | <input type="checkbox"/> Shed/Garage/Accessory Structure |
| <input type="checkbox"/> Addition | <input type="checkbox"/> Fence | <input checked="" type="checkbox"/> Solar |
| <input type="checkbox"/> Demolition | <input type="checkbox"/> Hardscape/Landscape | <input type="checkbox"/> Tree removal/planting |
| <input type="checkbox"/> Grading/Excavation | <input type="checkbox"/> Roof | <input type="checkbox"/> Window/Door |
| | | <input type="checkbox"/> 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.

Signature of owner or authorized agent

Date

HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFYING
[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address

7305 Takoma Avenue
Takoma Park MD 20912

Owner's Agent's mailing address

3600 Commerce Drive Ste 601 Baltimore Md 21227

Adjacent and confronting Property Owners mailing addresses

Jeff Luker
7307 Takoma Ave
Takoma Park Md 20912

Remington Stone
1703 Takoma Ave
Takoma Park Md 20912

7301 Takoma Avenue, Takoma Park 20912

7305 Takoma Avenue, Takoma Park 20912

7310 Piney Branch Road, Takoma Park
20912

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

Home is in great shape and does not require any additional work to allow solar panels installation.

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

Install 13 Roof Mounted Solar Panels on both the front and rear portions of the roof.

Work Item 1: _____	
Description of Current Condition: Good Condition	Proposed Work: Install 13 Roof Mounted Solar Panels on both the front and rare portions of the roof.

Work Item 2: _____	
Description of Current Condition:	Proposed Work:

Work Item 3: _____	
Description of Current Condition:	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/Excavation/ Landscaping	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*

SOLAR PV SYSTEM: 5.265 kWp

HENRICH RESIDENCE

7305 TAKOMA AVENUE TAKOMA PARK MD
UNITED STATES 20912

PROJECT INFORMATION

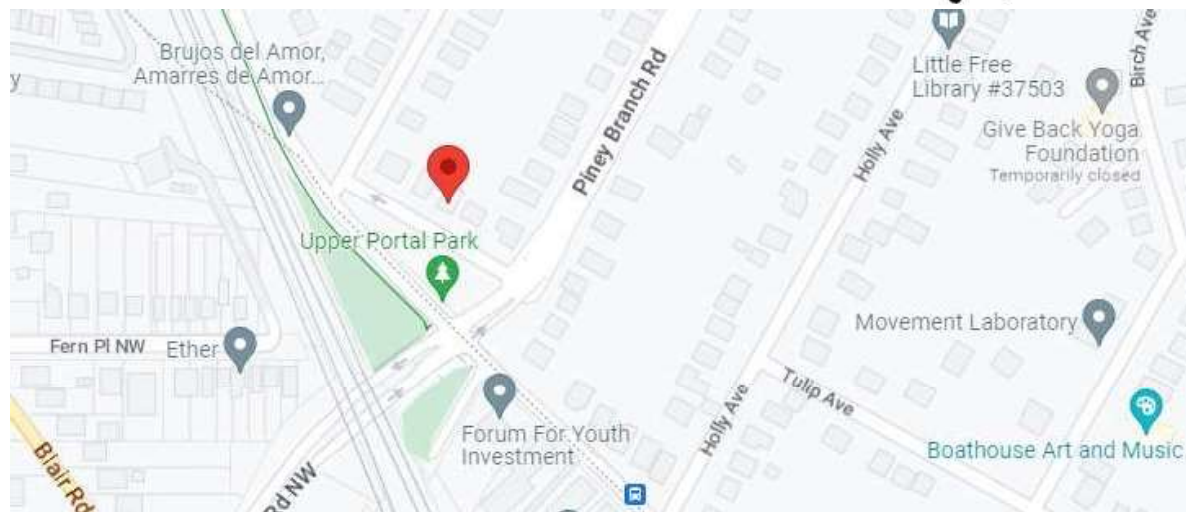
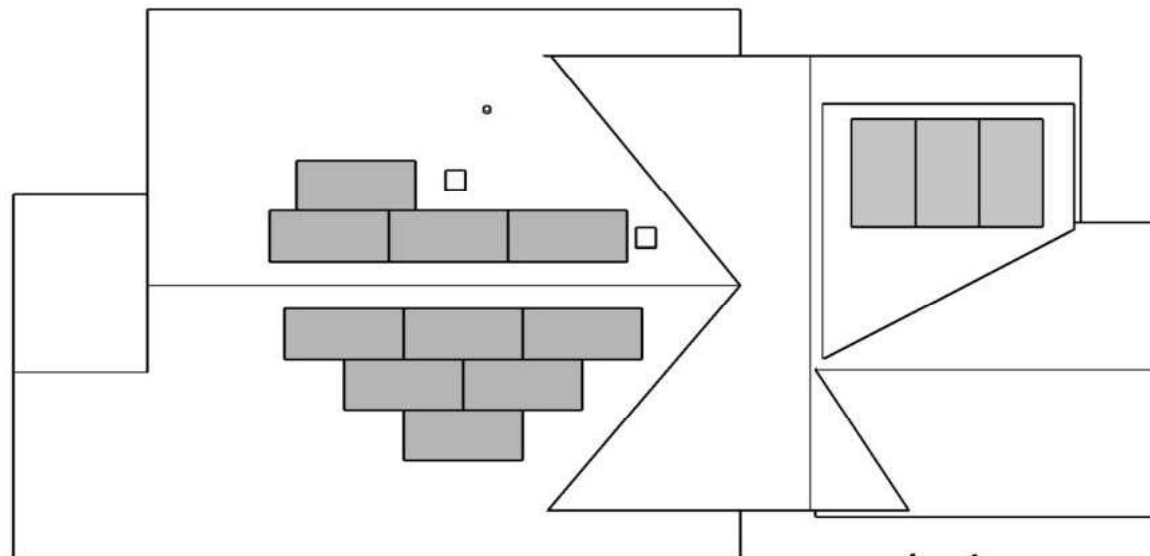
OWNER: RICHARD HENRICH
ADDRESS: 7305 TAKOMA AVENUE
TAKOMA PARK MD UNITED STATES 20912

AHJ: MONTGOMERY COUNTY (MD)
ADDRESS: 2425 REEDIE DRIVE
WHEATON-GLENMONT, MARYLAND 20902

ZONING: RESIDENTIAL
BUILDING CODE: IBC 2018
ELECTRICAL CODE: NEC 2017
ASCE VERSION: ASCE 7-16

SNOW LOAD: 30 PSF
WIND SPEED: 115 MPH
WIND EXPOSURE: B

DC RATING: 5.265 kW
AC RATING: 3.77 kW
RACKING: UNIRAC SM LIGHT RAIL
MODULE: (13) REC405AA
INVERTER: (13) IQ8PLUS-72-2-US



PROJECT SCOPE

THIS PROJECT INVOLVES THE INSTALLATION OF (13) REC PURE 405W ALL BLACK SOLAR MODULES. THE SOLAR MODULES WILL BE RACKED USING A PRE-ENGINEERED RACKING SYSTEM. THE RACKED MODULES WILL BE ELECTRICALLY CONNECTED TO (13) ENPHASE DC TO AC POWER INVERTERS, AND INTERCONNECTED TO THE LOCAL UTILITY USING MEANS AND METHODS CONSISTENT WITH THE RULES ENFORCED BY THE LOCAL UTILITY AND PERMITTING JURISDICTION.

FOR PERMITTING USE ONLY

PROJECT ADDRESS:

RICHARD HENRICH
7305 TAKOMA AVENUE
TAKOMA PARK MD UNITED STATES 20912

CONTRACTOR INFO:



3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV	DATE
IFC	4/18/2023

COVER

Z001

INDEX OF PAGES	
Z001	COVER PAGE
A001	ATTACHMENT & SITE PLAN
S001	ASSEMBLY & LOAD CALCS
E001	ELECTRICAL - LINE DIAGRAM
E002	ELECTRICAL - WIRE CALCS
E003	STRING & CONDUIT LAYOUT
E004	EQUIP. RATINGS & SIGNAGE

DocuSigned by:



DocuSigned by:
SCOTT KIRBY
CAD180010D814CD...
4/22/2023

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland.
License No: 41308 Exp. Date: 01-06-24

FOR ENGINEERING USE ONLY

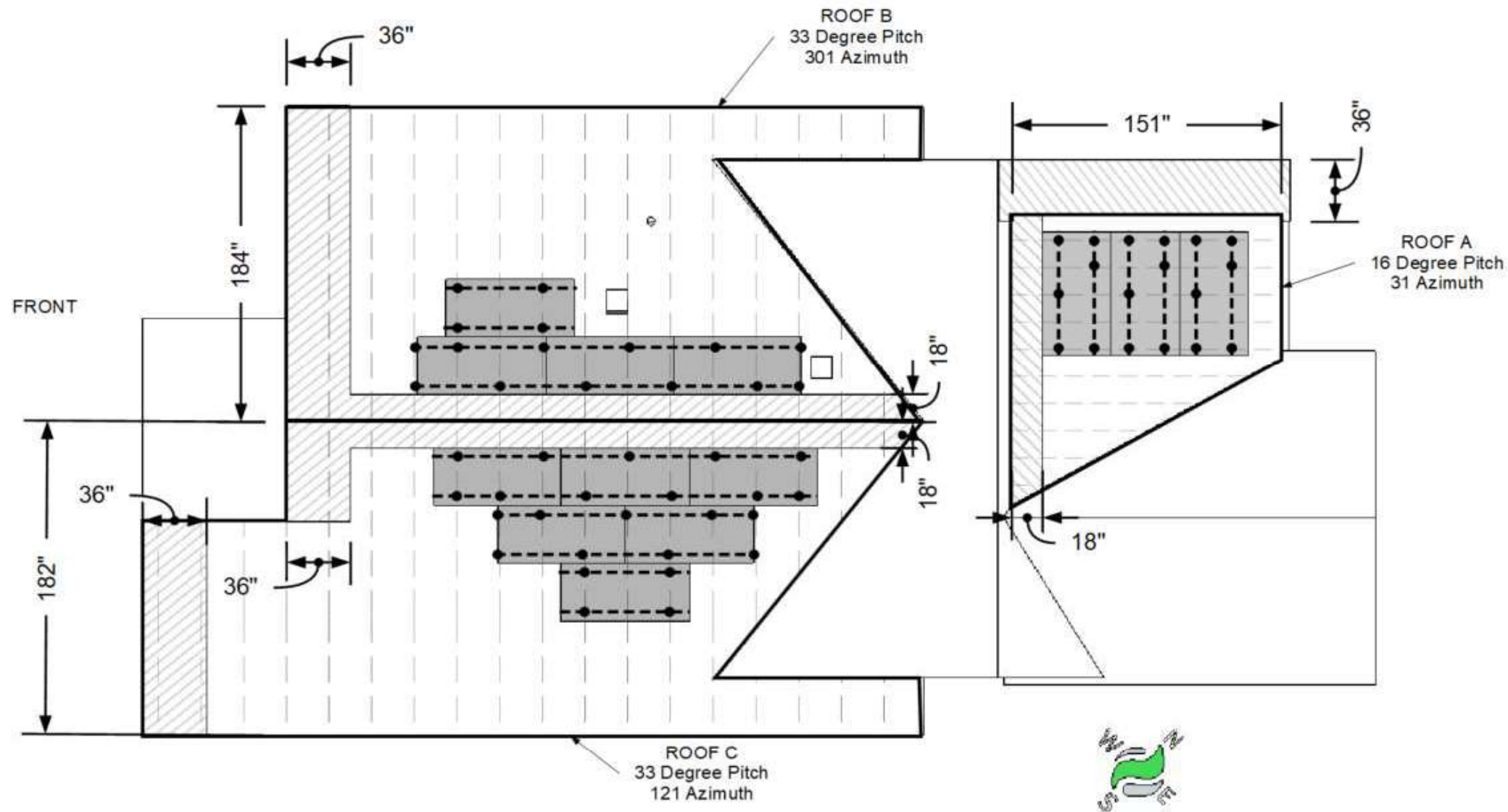
GENERAL NOTES

1) THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

2) ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE AND AS REQUIRED BY THE NEC AND AHJ.

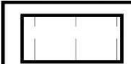




3) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS

4) THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM, AND THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE.



FOR PERMITTING USE ONLY

LEGEND

-  ROOF SUPPORT
-  MOUNTING RAIL
-  ROOF ATTACHMENT
-  PV ARRAY
-  FIRECODE SETBACK

PROJECT ADDRESS:

RICHARD HENRICH
 7305 TAKOMA AVENUE
 TAKOMA PARK MD UNITED STATES 20912

CONTRACTOR INFO:



FUSION SOLAR SERVICES
 3600 COMMERCE DR
 SUITE 601
 BALTIMORE, MD 21227
 (443) 955-0779

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ATTACHMENT PLAN

A001

4) ANY ROOFING PENETRATIONS SHALL HAVE PROPER FLASHING SEALANT USED TO PROVIDE WATERTIGHT ASSEMBLY

TOTAL ROOF PLAN AREA = 2190 SQ.FT.
 TOTAL SOLAR ARRAY AREA = 258.917 SQ.FT.
 ARRAY ROOF COVERAGE = 12 %

INSTALLATION NOTES

- 1) ALL SOLAR MODULES SUPPORTED BY ROOF ATTACHMENTS STAGGERED AT 48 IN O.C. (OR AS INDICATED)
- 2) SOLAR PHOTOVOLTAIC SYSTEM INSTALLED PARALLEL TO ROOF SURFACE
- 3) SOLAR PHOTOVOLTAIC SYSTEM INSTALLED AT A MAXIMUM HEIGHT OF 6 IN ABOVE ROOF SURFACE (OR AS INDICATED)

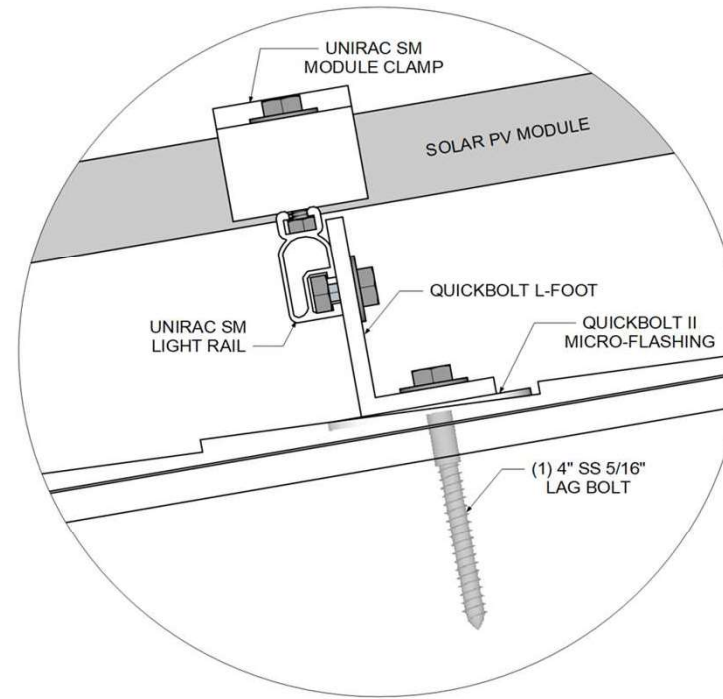
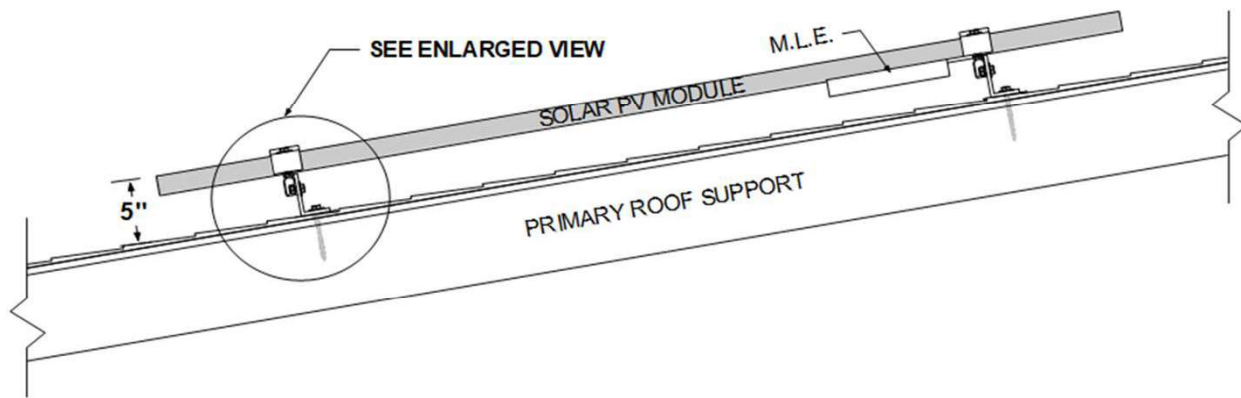
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SCOTT KIRBY
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Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland.
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FOR ENGINEERING USE ONLY



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REV	DATE
IFC	4/18/2023

ASSEMBLY & LOAD CALCS

S001

ROOF PROPERTIES	ROOF LABEL:	A	B	C
	MATERIAL:	Architectural Comp Shingle	Architectural Comp Shingle	Architectural Comp Shingle
	PITCH:	16°	33°	33°
	AZIMUTH:	31°	301°	121°
	PRIMARY SUPPORT:	2x10 RAFTERS	2x6 RAFTERS	2x6 RAFTERS
	PRIMARY SUPPORT SPACING:	16"	24"	24"
	SPAN (EAVE TO RIDGE):	7'	12'	12'
	MEAN HEIGHT:	25'	25'	25'
	RACKING:	UNIRAC SM LIGHT RAIL	UNIRAC SM LIGHT RAIL	UNIRAC SM LIGHT RAIL
	STANDOFF:	QUICKBOLT	QUICKBOLT	QUICKBOLT
DEAD & POINT LOAD CALCULATIONS	NUMBER OF MODULES:	3	4	6
	MODULE WEIGHT (LBS):	135.00	180.00	270.00
	M.L.E. WEIGHT (LBS):	7.14	9.52	14.28
	RACKING WEIGHT (LBS):	29.04	38.72	58.08
	STANDOFF WEIGHT (LBS):	4.50	6.00	9.00
	ARRAY WEIGHT (LBS):	175.68	234.24	351.36
	ARRAY AREA (SQ.FT.):	59.75	79.67	119.50
	DISTRIBUTED LOAD (PSF):	2.94	2.94	2.94
	APPROX. NUMBER OF STANDOFFS:	8	10	15
	POINT LOAD (LBS/STANDOFF):	21.96	23.42	23.42

DocuSigned by:



DocuSigned by:
SCOTT KIRBY
CAD180010D814CD...
4/22/2023

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland.
License No: 41308 Exp. Date: 01-06-24

INSTALLATION NOTES

- 1) ALL RACKING SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS
- 2) M.L.E.'S = MODULE LEVEL ELECTRONICS (IE, POWER OPTIMIZERS, MICRO-INVERTERS, CABLES, ETC)
- 3) USE 5/16" X 4"HEX HEAD STAINLESS STEEL LAG SCREWS

MOUNTING SYSTEM PROPERTIES

RACKING	UNIRAC SM LIGHT RAIL
STANDOFF	QUICKBOLT TO PRIMARY SUPPORT
MAX. RAIL SPAN (IN)	48
MIN. FASTENER DEPTH (IN)	2.5
MAX. RAIL CANTILEVER (IN)	16
MAX. ARRAY HEIGHT (IN)	5

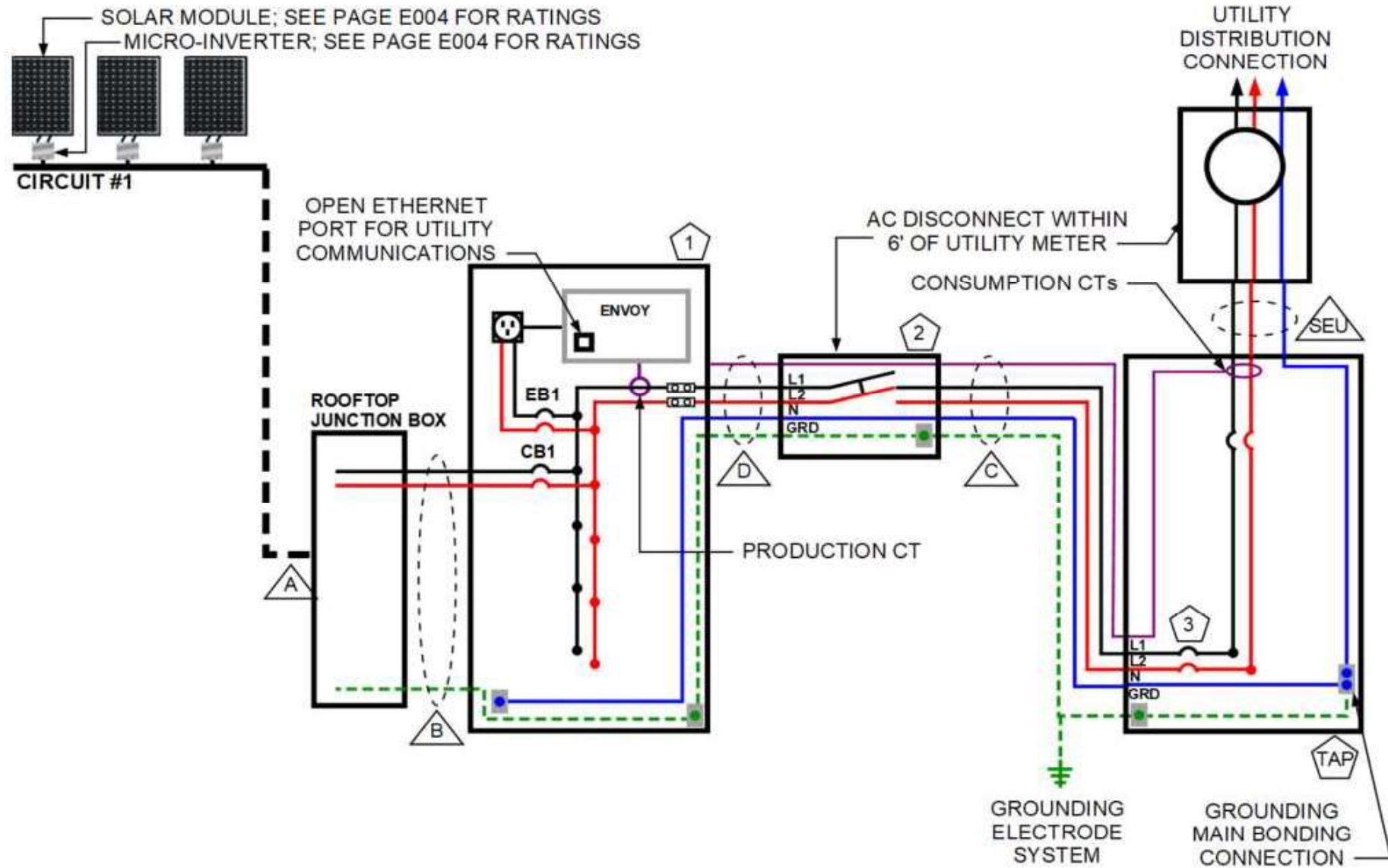
FOR ENGINEERING USE ONLY

CONDUCTOR AND CONDUIT SCHEDULE

TAG	WIRE SIZE	GROUND SIZE	WIRE TYPE	DESCRIPTION	CONDUIT SIZE	CONDUIT TYPE	LENGTH
SEU	#4/0 AL	N/A	SEU	(2) PHASE CONDUCTORS & (1) NEUTRAL	N/A	N/A	5'
A	#12 AWG	#6 AWG	Q-CABLE	(2) PHASE CONDUCTORS & (1) BARE COPPER IN FREE AIR	N/A	N/A	77' (MAX)
B	#10 AWG	#8 AWG	THWN-2	(2) PHASE CONDUCTORS & (1) GROUND	0.75"	EMT	35'
C	#10 AWG	#8 AWG	THWN-2	(2) PHASE CONDUCTORS & (1) NEUTRAL & (1) GROUND	1"	EMT	5'
D	#10 AWG	#8 AWG	THWN-2	(2) PHASE CONDUCTORS & (1) NEUTRAL & (1) GROUND	1"	EMT	5'

EQUIPMENT SCHEDULE

TAG	EQUIPMENT DETAILS	MOUNTING LOCATION
TAP	200 AMP EATON CH MAIN SERVICE PANEL WITH 200 AMP MAIN BREAKER (200 AMP SERVICE)	SURFACE-MOUNTED ON WALL OPPOSITE UTILITY METER
1	ENPHASE COMBINER (MODEL #X-IQ-AM1-240-4) WITH CIRCUITS AS LISTED IN TABLE	MOUNTED ADJACENT TO UTILITY METER
2	30 AMP NEMA3R NON-FUSED DISCO (MODEL #DU221RB)	MOUNTED ADJACENT TO UTILITY METER
3	2 POLE, 20 AMP EATON CH MAIN SERVICE PANEL BREAKER	BREAKER TAP IN MAIN SERVICE PANEL



CIRCUIT SCHEDULE

CIRCUIT	INVERTER COUNT	AMPERAGE CALCULATION	BREAKER SIZE
#1	13	13 x 1.21 x 125% = 19.66 A	20 AMP (CB1)
			ENVOY BREAKER 15 AMP (EB1)

ELECTRICAL NOTES

WHEN THE AC UTILITY SOURCE IS REMOVED FROM THE INVERTER OUTPUT CIRCUITS VIA ANY MEANS, SUCH AS AN AC BREAKER, AC DISCONNECT, OR REMOVAL OF THE SOLAR OR MAIN UTILITY SERVICE METER, THIS EQUIPMENT PERFORMS THE RAPID SHUTDOWN FUNCTION PER 690.12

ARRAY BONDED WITH #6 BARE Cu

TWO UNGROUNDED CONDUCTORS PER CIRCUIT OF INVERTERS (TYP)

ALL CONDUIT SIZING WILL BE IN ACCORDANCE TO THE NEC, CHAPTER 9

PVC OR LFMC MAY BE USED INSTEAD OF EMT CONDUIT

FOR PERMITTING USE ONLY

PROJECT ADDRESS:

RICHARD HENRICH
7305 TAKOMA AVENUE
TAKOMA PARK MD UNITED STATES 20912

CONTRACTOR INFO:



3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV	DATE
IFC	4/18/2023

ELECTRICAL - LINE DIAGRAM

E001

CALCULATION FOR PV BREAKER					
SYSTEM CURRENT	1.21	x	13	=	15.73 A
DESIGN AMPERAGE (FLA)	15.73	x	125%	=	19.6625 A
MAIN BUSS RATING	200	x	120%	=	240 A
EXISTING MAIN BREAKER					200 A
MAX SOLAR BREAKER	240	-	200	=	40 A

ARRAY TO COMBINER	
WIRE LENGTH	35 FT
WIRE SIZE	#10 AWG
SYSTEM PROPERTIES	
FULL LOAD AMPERAGE	15.73
SOURCE VOLTAGE	240
LENGTH OF RUN (FT)	35
LOAD DUTY	CONTINUOUS
CONDUCTOR TYPE	THWN-2
CONDUCTOR MATERIAL	COPPER
CONDUCTOR LOCATION	DRY OR WET
CONDUCTOR INSULATION TEMP	75°C
DISTANCE ABOVE ROOF	1/2 to 3-1/2in.
AVERAGE OUTSIDE TEMP (°F)	94
TEMP ADDER (°F)	40
ADJUSTED AMBIENT TEMP (°F)	134
TERMINAL TEMP RATING	75°C
CIRCUIT TYPE	SINGLE PHASE 2-WIRE
QTY. OF CURRENT-CARRYING CONDUCTORS	2
ADDITIONAL CURRENT-CARRYING CONDUCTORS	
TOTAL # OF CURRENT-CARRYING CONDUCTORS	2
CONDUCTOR CONDITIONS OF USE	
LARGEST CIRCUIT FULL LOAD AMPS	15.73
LOAD DUTY MULTIPLIER	1.25
AMBIENT TEMP FACTOR	0.58
QTY. CONDUCTORS IN CONDUIT FACTOR	1.00
CONDUCTOR SELECTION	
MINIMUM REQUIRED CONDUCTOR AMPACITY	33.90
SELECTED CONDUCTOR AMPACITY	35.00
SELECTED CONDUCTOR SIZE (AWG)	10
TERMINAL REQUIREMENT	
LARGEST CIRCUIT FULL LOAD AMPS	15.73
LOAD DUTY MULTIPLIER	1.25
REQUIRED TERMINAL AMPACITY	19.66
VOLTAGE DROP	
OHMS/MILFT	1.240
LENGTH OF RUN (FT)	35
LOAD CURRENT	15.73
VOLTAGE DROP	1.37
VOLTS AT LOAD TERMINAL	238.63
PERCENT VOLTAGE DROP	0.57%

INTERCONNECTION	
METHOD	BREAKER TAP
WIRE SIZE	#10 AWG
SYSTEM PROPERTIES	
FULL LOAD AMPERAGE	15.73
SOURCE VOLTAGE	240
LENGTH OF RUN (FT)	15
LOAD DUTY	CONTINUOUS
CONDUCTOR TYPE	THWN-2
CONDUCTOR MATERIAL	COPPER
CONDUCTOR LOCATION	DRY OR WET
CONDUCTOR INSULATION TEMP	75°C
AMBIENT TEMP	26-30°C
TERMINAL TEMP RATING	75°C
CIRCUIT TYPE	SINGLE PHASE 3-WIRE
QTY. OF CURRENT-CARRYING CONDUCTORS	2
CONDUCTOR CONDITIONS OF USE	
FULL LOAD AMPS	15.73
LOAD DUTY MULTIPLIER	1.25
AMBIENT TEMP FACTOR	1.00
QTY. CONDUCTORS IN CONDUIT FACTOR	1.00
CONDUCTOR SELECTION	
MINIMUM REQUIRED CONDUCTOR AMPACITY	19.66
SELECTED CONDUCTOR AMPACITY	35.00
SELECTED CONDUCTOR SIZE (AWG)	10
TERMINAL REQUIREMENT	
FULL LOAD AMPS	15.73
LOAD DUTY MULTIPLIER	1.25
REQUIRED TERMINAL AMPACITY	19.66
VOLTAGE DROP	
OHMS/MILFT	1.240
LENGTH OF RUN (FT)	15
LOAD CURRENT	15.73
VOLTAGE DROP	0.59
VOLTS AT LOAD TERMINAL	239.41
PERCENT VOLTAGE DROP	0.24%

FOR PERMITTING USE ONLY

PROJECT ADDRESS:

**RICHARD
HENRICH**
7305 TAKOMA AVENUE
TAKOMA PARK MD UNITED
STATES 20912

CONTRACTOR INFO:



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SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV	DATE
-----	------

IFC	4/18/2023
-----	-----------

**ELECTRICAL -
WIRE CALCS**

E002








ELECTRICAL NOTES











1) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 75°C AND WET ENVIRONMENT, UNLESS OTHERWISE NOTED.

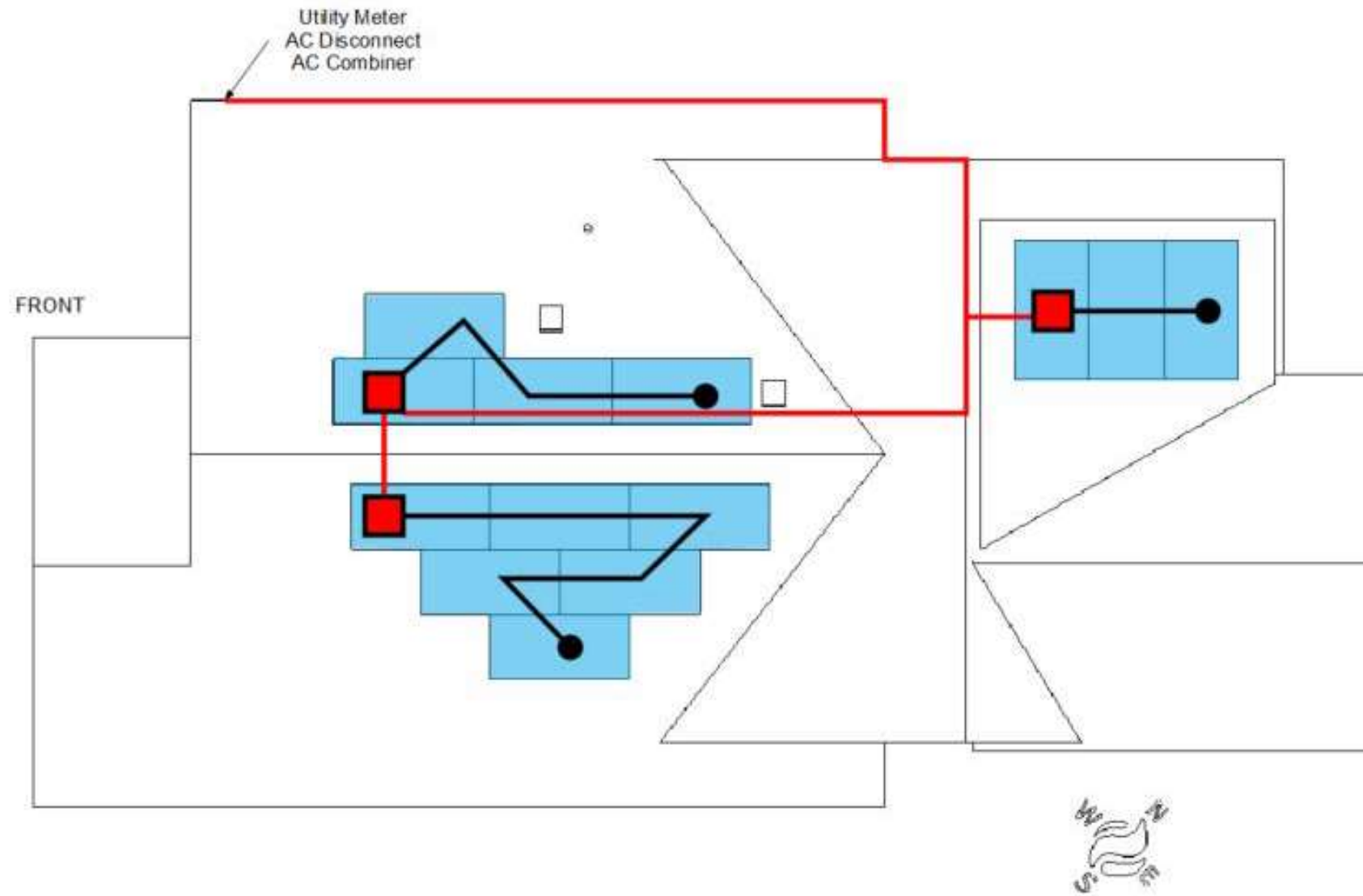
2) ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.

3) MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER MANUFACTURER'S INSTRUCTION.

LEGEND

-  JUNCTION BOX
-  SOLADECK
-  END CAP
-  EXTERIOR CONDUIT
-  INTERIOR CONDUIT
-  BASEMENT CONDUIT
-  TRUNK CABLE

COLOR	CIRCUIT	MODULE COUNT
	#1	13
		
		
		
		
		
		
		
		
		



FOR PERMITTING USE ONLY

PROJECT ADDRESS:

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HENRICH
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MHIC-30991

REV	DATE
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CIRCUIT & CONDUIT LAYOUT

E003

SOLAR MODULE RATINGS	
REC Pure 405w All Black Specifications	
Length:	71.7 in
Width:	40 in
Thickness:	1.2 in
Weight:	45.00 lbs
Imp:	9.56 A
Vmp:	42.4 V
Voc:	48.9 V
Isc:	10.14 A
OCPD:	25 A
Pmax:	405 W
Vmax:	1000 V
Temp. Coefficient:	-0.24 %Voc/°C

INVERTER 1 RATINGS	
Enphase IQ8+ Specifications	
Max # Per String:	13
I _{max} (ac):	1.21 A
V _{max} (dc):	60 V
P _{max} :	290 W
Nom. AC Voltage:	240 V
OCPD:	20 A
Weight (Optimizer):	2.38 lbs
I _{max} (Input):	15 A
P _{max} (dc) Input:	440 V

WARNING: PHOTOVOLTAIC POWER SOURCE

LABEL TO BE INSTALLED AT EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING METHODS; SPACED AT MAXIMUM 10FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.

LETTERS AT LEAST 3/8 INCH; WHITE ON RED BACKGROUND; REFLECTIVE

PHOTOVOLTAIC DC DISCONNECT

LABEL TO BE INSTALLED AT EACH DC DISCONNECTING MEANS

PHOTOVOLTAIC AC DISCONNECT

LABEL TO BE INSTALLED AT EACH AC DISCONNECTING MEANS

PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

LABEL TO BE INSTALLED AT RAPID SHUTDOWN SWITCH

LETTERS AT LEAST 3/8 INCH; WHITE ON RED BACKGROUND; REFLECTIVE

SOLAR PV SYSTEM DISCONNECT

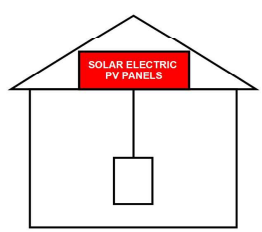
RATED AC OUTPUT CURRENT: **15.73 A**

NOMINAL OPERATING AC VOLTAGE: **240 V**

LABEL TO BE INSTALLED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTING MEANS AS A POWER SOURCE

SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN

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



LABEL TO BE INSTALLED ON NO MORE THAN 3FT FROM THE SERVICE DISCONNECTING MEANS

WARNING

ELECTRICAL SHOCK HAZARD

DO NOT TOUCH TERMINALS! TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL TO BE INSTALLED AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT

WARNING

ELECTRICAL SHOCK HAZARD

IF GROUND FAULT IS INDICATED NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED

LABEL TO BE INSTALLED AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL TO BE INSTALLED ON OR NO MORE THAN 3FT FROM THE RAPID SHUTDOWN SWITCH

WARNING

DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL TO BE INSTALLED ON EXTERIOR OF MAIN ELECTRICAL PANEL

WARNING

INVERTER OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL TO BE APPLIED TO THE DISTRIBUTION EQUIPMENT

INTERACTIVE PHOTOVOLTAIC SYSTEM CONNECTED

LABEL TO BE INSTALLED AT UTILITY METER

SOLAR PV LOADCENTER

5.265 kW DC SOLAR ARRAY

240 VOLT AC SYSTEM

INSTALLED COMPONENTS

(13) REC Pure 405w All BlackW Modules
(13) Enphase IQ8+

CIRCUIT CALCULATIONS

SYSTEM CURRENT:	1.21	x	13	=	15.73 A
DESIGN AMPERAGE:	15.73	x	125%	=	19.6625 A
CIRCUIT #1 =	13		15.73		19.66

- SIGNAGE NOTES**
- 1) ALL PLAQUES AND LABELS SHALL HAVE A RED BACKGROUND (OR AS SHOWN HERE)
 - 2) ALL LETTERING SHALL BE WHITE AND HAVE A MINIMUM HEIGHT OF 3/8" (OR AS SHOWN HERE)
 - 3) FONT SHALL BE ARIAL (OR SIMILAR) AND ALL LETTERING SHALL BE CAPITALIZED
 - 4) ALL PLAQUES AND LABELS SHALL BE OF A MATERIAL SUITABLE FOR THE ENVIRONMENT INSTALLED

FOR PERMITTING USE ONLY

PROJECT ADDRESS:

RICHARD HENRICH
7305 TAKOMA AVENUE
TAKOMA PARK MD UNITED STATES 20912

CONTRACTOR INFO:



FUSION SOLAR SERVICES

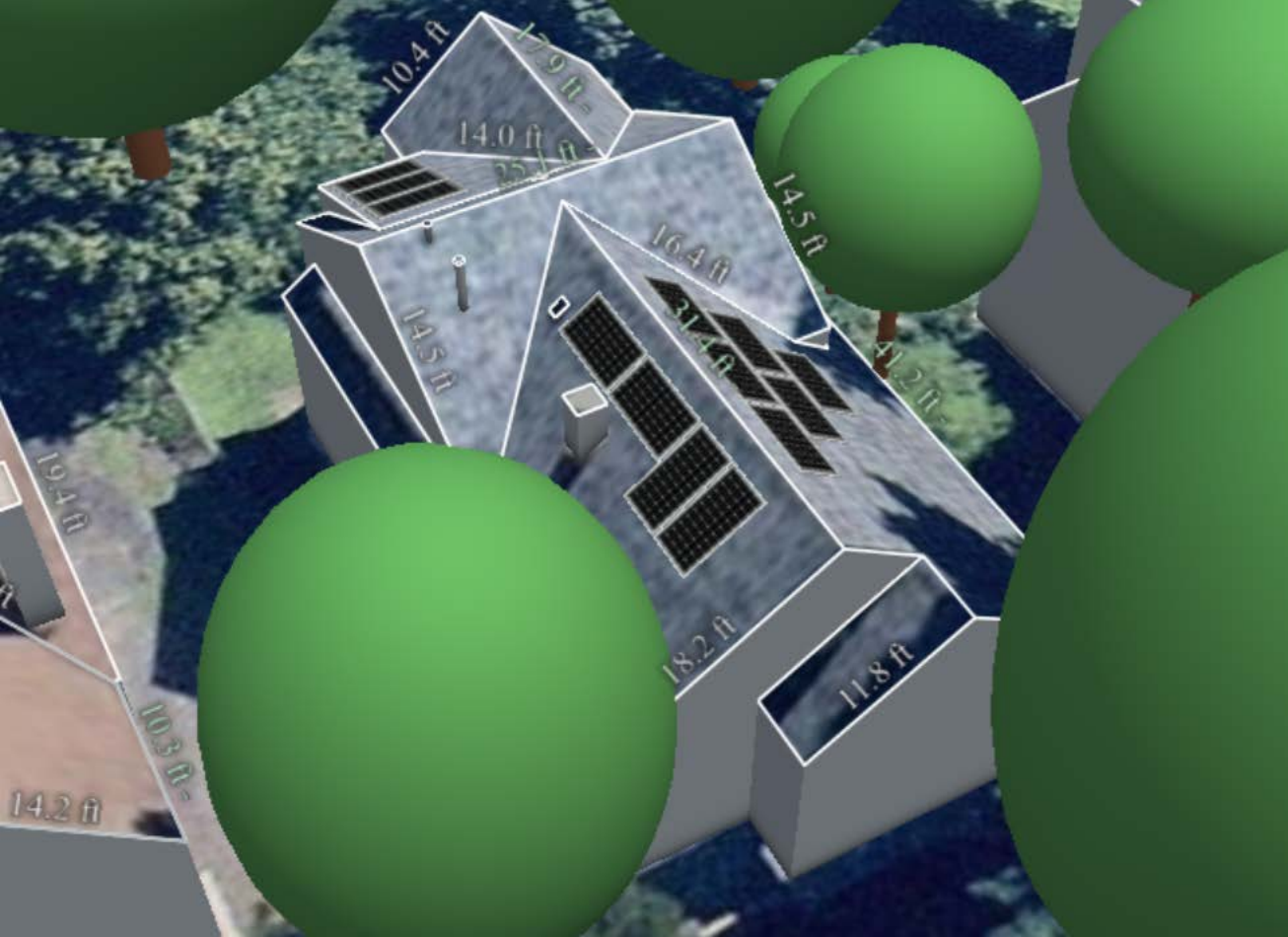
3600 COMMERCE DR
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BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:
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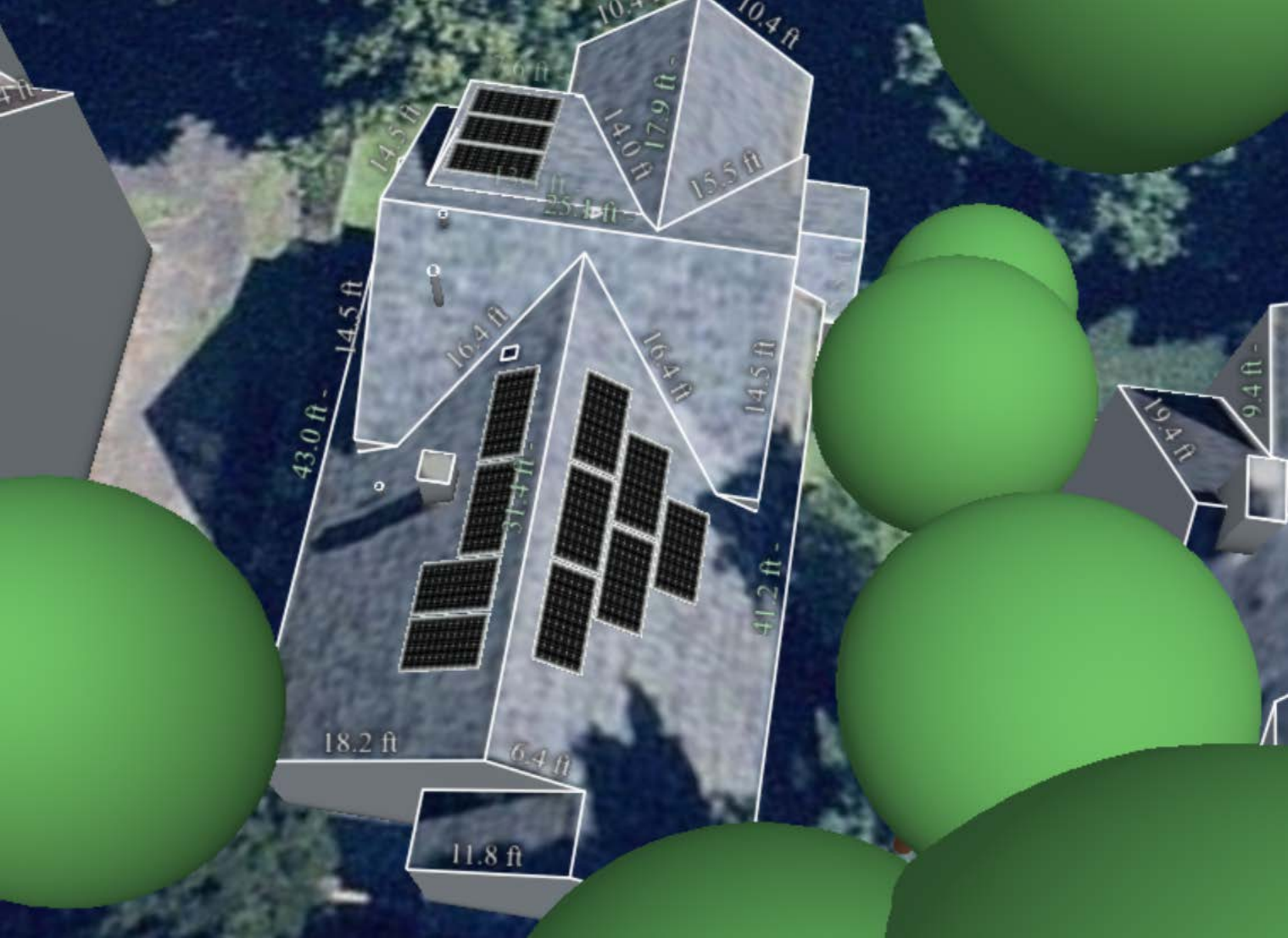
REV	DATE
IFC	4/18/2023

EQUIP. RATINGS & SIGNAGE

E004







43.0 ft -
14.5 ft

16.4 ft

31.7 ft

18.2 ft

11.8 ft

6.4 ft

41.2 ft -

14.5 ft

16.4 ft

25.1 ft

14.0 ft
17.9 ft

15.5 ft

10.4 ft

10.4 ft

7.6 ft

14.5 ft

19.4 ft

9.4 ft -

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

To: Richard Henrich
7305 Takoma Ave
rhenrich@erols.com 202-441-0832

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: Ola Carew ocarew@luminasolar.com 4434253023
Location of Project: 7305 Takoma Avenue
Proposed Scope of Work: Install 13 Roof Mounted Solar Panels

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.

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-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 on 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
Ola Carew
Key: 38bf2056e22713c0b979ea7ee94776a

Ola Carew

04-25-2023

Fwd: Solar Panels - Historical Area Work Permit

6 messages

Steven Coffman <scoffman@luminasolar.com>
To: Olajumoke Carew <ocarew@luminasolar.com>

Mon, May 8, 2023 at 6:33 PM

----- Forwarded message -----

From: **Jeffrey Luker** <jeffrey.luker@quinnevens.com>
Date: Mon, May 8, 2023, 9:26 AM
Subject: RE: Solar Panels - Historical Area Work Permit
To: scoffman@luminasolar.com <scoffman@luminasolar.com>
Cc: Remington Stone <remstone@yahoo.com>, Richard Henrich <rhenrich@erols.com>

Hi Steve,

We are Richard Henrich's immediate neighbor and located at [7307 Takoma Ave, Takoma Park Maryland](#). We are aware of the proposed solar panel installation, and we have no objection to the project.

We look forward to seeing the project proceed and would like to talk about similar work at our house.

Sincerely,



Jeffrey Luker, AIA, LEED AP

Principal

202 744 7494 mobile

From: Richard Henrich <rhenrich@erols.com>
Sent: Monday, May 8, 2023 8:58 AM
To: Jeffrey Luker <jeffrey.luker@quinnevans.com>; 'Remington Stone' <remstone@yahoo.com>
Cc: scoffman@luminasolar.com
Subject: Solar Panels - Historical Area Work Permit

Hi Jeff, Hi Remington!

You can see from the email below from Lumina Solar that we are seeking an Historical Area Work Permit for the solar panel installation on my house. I will be very grateful if you can email a reply to Steve Coffman (below) indicating you are aware of the project and you have no objection.

Please let me know if you would like more info – I now have detailed plans and specs for the panel installation.

Steve also reminded me that Lumina is offering a \$1,500 bonus to anyone who makes a referral that ultimately leads to a new installation for Lumina – I gather this is true even if you do not retain Lumina for an installation yourself. What a deal!

All the best,

--Richard

202-441-0832

From: Steven Coffman <scoffman@luminasolar.com>
Sent: Monday, May 8, 2023 8:39 AM

To: Richard Henrich <rhenrich@erols.com>

Subject: Historical Area Work Permit

Hello Mr. Henrich,

Hope all is well with you! Good news,

We are ready to move forward with the Historic Area Work Permit. We do need to get approval from 2 of your neighbors to proceed. You can forward this email letting each know that you are planning to have solar panels installed. All they have to do is reply saying they do not object. Please include me in the reply or forward the email back to me.

Let me know if you have any questions. I will reach out to you by phone as well.

Best regards,



Steve Coffman

Solar Consultant

301.509.4376

luminasolar.com

3600 Commerce Dr., Ste 601
Baltimore, MD 21227

Leave us a Review!

[Google - Lumina Solar](#)

[SolarReviews - Lumina Solar](#)

[Facebook - Lumina Solar](#)

[Energysage - Lumina Solar](#)

[Home Advisor - Lumina Solar](#)

2 attachments



image001.png
9K



image001.png
9K

Steven Coffman <scoffman@luminasolar.com>
To: Olajumoke Carew <ocarew@luminasolar.com>

Mon, May 8, 2023 at 6:33 PM

----- Forwarded message -----

From: **Remington Stone** <remstone@yahoo.com>
Date: Mon, May 8, 2023, 9:04 AM
Subject: Re: Solar Panels - Historical Area Work Permit
To: Luker, Jeff <jluker@quinnevans.com>, Richard Henrich <rhenrich@erols.com>
Cc: scoffman@luminasolar.com <scoffman@luminasolar.com>

Hello Richard and Steve-

We are aware of the project and fully supportive, no objections here!

[Quoted text hidden]

Olajumoke Carew <ocarew@luminasolar.com>

Tue, May 9, 2023 at 8:41 AM

To: Steven Coffman <scoffman@luminasolar.com>

Thanks Steven, can you please send me the neighbors addresses. I will submit once I have that information.

Ola

[Quoted text hidden]

Steven Coffman <scoffman@luminasolar.com>
To: Olajumoke Carew <ocarew@luminasolar.com>

Tue, May 9, 2023 at 8:52 AM

[7307 Takoma Ave, Takoma Park Maryland](#) for Mr. Luker
7303 for Stone



Steve Coffman

Solar Consultant

301.509.4376

luminasolar.com

3600 Commerce Dr., Ste 601
Baltimore, MD 21227

Leave us a Review!

[Google - Lumina Solar](#)

[SolarReviews - Lumina Solar](#)

[Facebook - Lumina Solar](#)

[Energysage - Lumina Solar](#)

[Home Advisor - Lumina Solar](#)

[Quoted text hidden]

Olajumoke Carew <ocarew@luminasolar.com>
To: Steven Coffman <scoffman@luminasolar.com>

Wed, May 10, 2023 at 9:20 AM

Thank you!

[Quoted text hidden]

Steven Coffman <scoffman@luminasolar.com>
To: Olajumoke Carew <ocarew@luminasolar.com>

Wed, May 10, 2023 at 9:22 AM

Welcome!

[Quoted text hidden]