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Showing 1 of 1

<input type="checkbox"/> <u>Permit #</u>	<u>Status</u>	<u>Record Type Alias</u>	<u>Street #</u>	<u>Street Name</u>	<u>Type</u>	<u>Unit Type</u>	<u>Unit #</u>	<u>City</u>
<input type="checkbox"/> <u>B22000808</u>	Completed	Residential Solar Panels	6346	WIND RIDER	WAY			COLL

Page of 1

On-line

Approved Septic System Plan
 Howard County Health Department
Dana Beard 3-13-23.
 Signature Date



HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS
 7125 Riverwood Drive, Suite D2 ■ Columbia, Maryland 21046 ■ 410-313-1823

Robert J. Frances, P.E., Director

FAX 410-313-1861
 TDD 410-313-2323

SOLAR PANEL STATEMENT OF INSTALLATION CERTIFICATION

This Installation Certification is to be completed and given to the Electrical Inspector at the Final Inspection

This certifies that the solar panel(s) installed at 6346 Wind Rider Way under electrical permit number E22001206 and building permit number B22000808 have been installed in accordance with the manufacturer's installation guidelines, product specifications and all applicable

codes of the 2021 International Building Code and the 2020 National Electrical Code and agree with the following terms:

- I understand and accept the responsibility for compliance in the installation of the solar panels at the address listed above. The solar panels have been installed in accordance with the manufacturer's requirements, hardware and installation manual.
- Electrical load calculations are required for final inspection approval. The manual and material lists (with specifications) used to install the modules shall be present at the site. The manual shall include the one-line diagram of the installations.
- A final inspection by Howard County Department of Inspections, Licenses and Permits is required at the site with the solar panel installer present when the work is complete.

I, the undersigned, am at least eighteen (18) years of age and solemnly affirm under the penalties of perjury and upon personal knowledge that the statements herein are true.

[Signature] 4/8/22
 Installer's Signature/Date

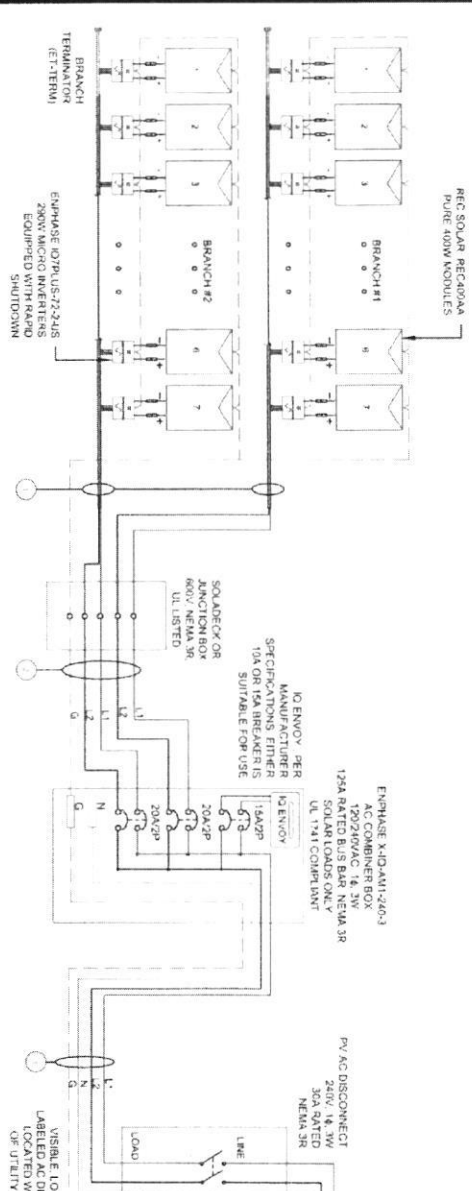
Sigora Solar LLC
 Printed name of Installer with Title/Company Name

Solar Panel Manufacturer's Name: REC

Solar Panel Model Number: REC 400W Pure 400W

Master Electrician	Solar Panel Installer	Owner's Information
Name: <u>Matt Doran</u>	Name: <u>Sigora Solar</u>	Name: <u>Christopher Sila</u>
Address: <u>490 Westfield Rd Ste A Charlottesville, VA 22901</u>	Address: <u>490 Westfield Rd Ste A Charlottesville, VA 22901</u>	Address: <u>6346 Wind Rider Way Columbia, MD 21045</u>
Telephone #: <u>1-540-818-2527</u>	Telephone #: <u>434 465 6901</u>	Telephone #: <u>410-752 1494</u>
License #: <u>ES10572</u>		

DC SYSTEM SIZE: 5,800 W DC
 AC SYSTEM SIZE: 4,000 W AC
 (1) REC. SOLAR: REC-400VA PURE 400W MONO MODULES
 WITH (1) PHASE (0) PLUS (2) 2-US 500W MICRO INVERTERS
 EQUIPPED WITH RAPID SHUTDOWN
 (2) BRANCH CIRCUITS OF 7 MODULES CONNECTED IN PARALLEL



- INTERCONNECTION NOTES:**
1. INTERCONNECTION STRING LIMITATIONS AND COMPLIANCE DETERMINED IN ACCORDANCE WITH NEC 705.121 AND NEC 690.64
 2. GROUND FAULT PROTECTION IN ACCORDANCE WITH NEC 215.91 (NEC 230.95 AND NEC 690.5)
 3. ALL EQUIPMENT TO BE RATED FOR BACKFEEDINGS
 4. PV BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BRANCH RELATIVE TO THE MAIN BREAKER
- DISCONNECT NOTES:**
1. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING LIVE ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINAL(S))
 2. AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
- RACKING NOTE:**
1. BOND EVERY RAIL WITH #8 BARE COPPER

- GROUNDING & GENERAL NOTES:**
1. A SECOND FACILITY GROUNDING ELECTRODE IS NOT REQUIRED PER NEC 690.47(C)(3)
 2. PV INVERTER IS UNGROUND/ED TRANSFORMER-LESS TYPE
 3. DC GEC AND AC EGC TO REMAIN UNSPLICED OR SPLICED TO EXISTING ELECTRICAL
 4. FOUND EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL INSPECTION
 5. SOLADACK OR JUNCTION BOX QUANTITIES AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD - SOLADACK OR JUNCTION BOX DERIVED ON ELECTRICAL DIAGRAM REPRESENTS MINIMUM
 6. AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT
 7. RACKWAYS AND CABLES EXPOSED TO SUNLIGHT ON ROOFTOPS SHOULD BE INSTALLED MORE THAN 7/8" ABOVE THE ROOF USING CONDUIT SUPPORTS
 8. OTHER TRADES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE NOTIFIED FOR AT LEAST 72 HOURS

1 ELECTRICAL LINE DIAGRAM
 SCALE NTS
 PV-4

QTY	CONDUCTOR INFORMATION	CONDUIT TYPE	CONDUIT SIZE
(4)	#12AWG - ENHANCED ENGAGE CABLE (L & N NO NEUTRAL)	N/A	N/A
(1)	#12AWG - BARE COPPER IN FREE AIR	N/A	N/A
(4)	#10AWG - CU/THHN-2 GND	EMT OR FMC IN ATTIC	3/4"
(1)	#10AWG - CU/THHN-2 GND	EMT OR FMC OR PVC	3/4"
(1)	#10AWG - CU/THHN-2 GND	EMT, LPMC OR PVC	3/4"
(1)	#10AWG - CU/THHN-2 GND	EMT, LPMC OR PVC	3/4"

SIGORA SOLAR

SIGORA SOLAR LLC
 490 WESTFIELD RD STE A
 CHARLOTTEVILLE, VA 22901

REVISIONS

DESCRIPTION	DATE	REV
INITIAL	3/27/2022	

DATE: 02/21/2022

PROJECT NAME & ADDRESS

CHRISTOPHER SOLA RESIDENCE

6346 WIND RIDER WAY,
 COLUMBIA, MD 21045

DESIGNED BY
ESR

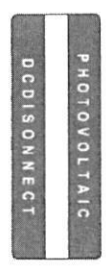
SHEET NAME
ELECTRICAL LINE DIAGRAM

SHEET SIZE
**ANSI B
 11" X 17"**

SHEET NUMBER
PV-4

**WARNING-PHOTOVOLTAIC
POWER SOURCE**

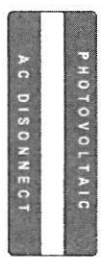
LABEL 1
AT DIRECT CURRENT EXPOSED RACEWAYS, CABLE TRAYS, COVERS AND ENCLOSURES OF JUNCTION BOXES AND OTHER WIRING METHODS, SPACED AT MAXIMUM 10 FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILING, OR FLOORS.
NEC 690.31(G)(3)(4)
(NOT USED FOR ENPHASE MICROWVERTERS)



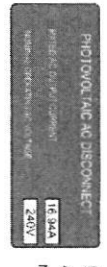
LABEL 2
AT EACH PV DISCONNECTING MEANS
NEC 690.13(B)
(NOT USED FOR ENPHASE MICROWVERTERS)



LABEL 3
AT DC PV SYSTEM DISCONNECTING MEANS
NEC 690.43
(NOT USED FOR ENPHASE MICROWVERTERS)



LABEL 4
AT AC DISCONNECTING MEANS
NEC 690.13(B)



LABEL 5
AT AC DISCONNECTING MEANS
NEC 690.54

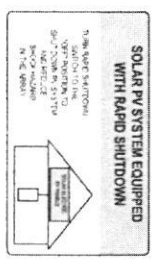
- LABELING NOTES:**
1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
 2. LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRICAL CODE, OSHA STANDARD 19010.145, ANSI Z535.
 3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED (NEC 110.21)
 5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND, REFLECTIVE, AND PERMANENTLY AFFIXED (IFC 605.11.1.1)



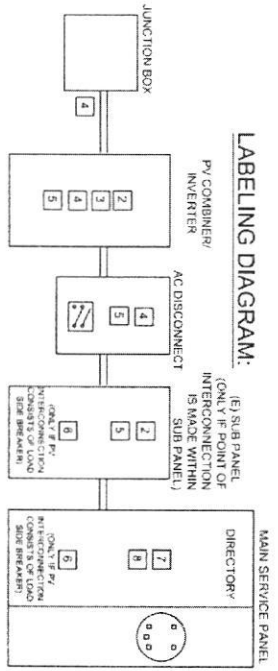
LABEL 6
PLACED ADJACENT TO THE BACK-FED BREAKER FROM THE INVERTER IF THE INVERTER OUTPUT CONNECTION CONSISTS OF LOAD SIDE CONNECTION TO BUSBAR
NEC 705.12(D)(2)(1)(B)



LABEL 7
SIGN LOCATED AT LOAD CENTER
NEC 705.12(B)(3-4) & NEC 690.59



LABEL 8
FOR PV SYSTEMS THAT SHUT DOWN THE ARRAY AND CONDUCTORS LEAVING THE ARRAY SIGN TO BE LOCATED ON OR NO MORE THAN 3 FT AWAY FROM SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATION OF ALL IDENTIFIED RAPID SHUTDOWN SWITCHES IF NOT AT THE SAME LOCATION.
NEC 690.58(C)(1)(A)



** ELECTRICAL DIAGRAM SHOWN ABOVE IS FOR LABELING PURPOSES ONLY. NOT AN ACTUAL REPRESENTATION OF EQUIPMENT AND CONNECTIONS TO BE INSTALLED. LABEL LOCATIONS PRESENTED MAY VARY DEPENDING ON TYPE OF INTERCONNECTION METHOD AND LOCATION PRESENTED ELECTRICAL DIAGRAM PAGE **

SIGORA SOLAR LLC
490 WESTFIELD RD STE A
CHARLOTTESVILLE, VA 22901

REVISIONS	DATE	REV
DESCRIPTION		
INITIAL	02/27/2022	

DATE 02/27/2022
PROJECT NAME & ADDRESS

**CHRISTOPHER SOLA
RESIDENCE**

6346 WIND RIDER WAY,
COLUMBIA, MD 21045

DRAWN BY
ESR

SHEET NAME
LABELS

SHEET SIZE
**ANSI B
11" X 17"**

SHEET NUMBER
PV-5

CIRCUIT LEGENDS	
CIRCUIT #1	
CIRCUIT #2	



1 ROOF PLAN WITH CIRCUIT LAYOUT
 SCALE 1/4" = 1'-0"

BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULES	14	REC SOLAR REC400VA PURE 400W
MICRO INVERTERS	14	ENPHASE D7PLUS-72-2US 200W MICRO INVERTERS EQUIPPED WITH RAPID SHUTDOWN
SOLARDECKS OR JUNCTION BOXES	2	SOLARDECKS OR JUNCTION BOXES
MODULE CLAMPS	18	END MODULE CLAMPS
END CLAMPS	20	END CLAMPS / STOPPER SLEEVE
ATTACHMENT	32	SNAP 'N RACK COMP
BOLT	32	LAG BOLT

DATE 02/21/2022
PROJECT NAME & ADDRESS
DATE 02/21/2022
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CHRISTOPHER SOLA RESIDENCE
 6346 WIND RIDER WAY,
 COLUMBIA, MD 21045

DATE 02/21/2022
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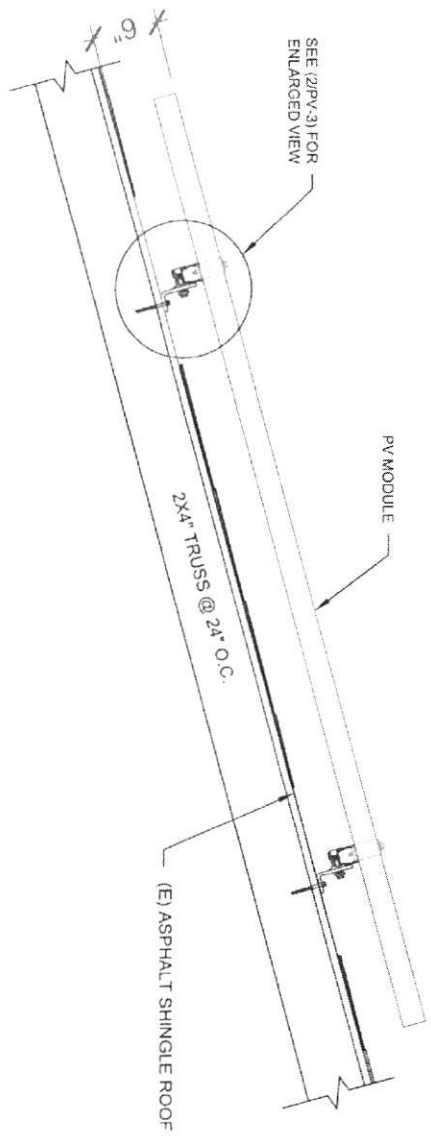
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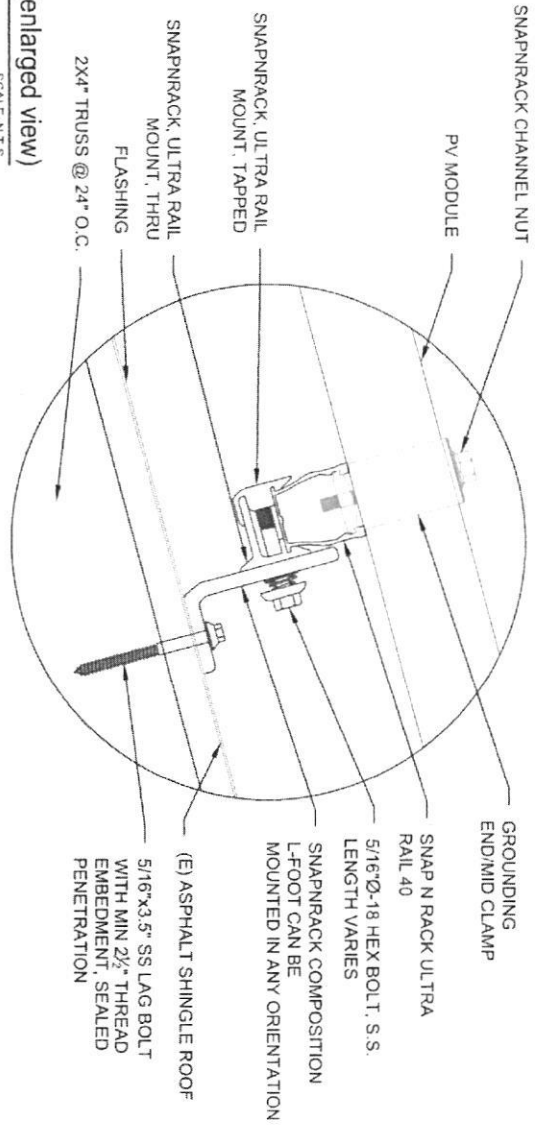
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SIGORA SOLAR LLC
 480 WESTFIELD RD STE A
 CHARLOTTEVILLE VA 22901

SHEET NAME
 CIRCUIT LAYOUT
 SHEET SIZE
 ANSIB
 11" X 17"
 SHEET NUMBER
 PV-2A



1 STRUCTURAL ATTACHMENT (SIDE VIEW)
SCALE: N.T.S.



2 ATTACHMENT DETAIL (enlarged view)
SCALE: N.T.S.

SIGORA SOLAR LLC
490 WESTFIELD RD STE A
CHARLOTTESVILLE, VA 22901

REVISIONS	DATE	REV
DESCRIPTION	DATE	REV
INITIAL	DATE	REV

DATE: 02/21/2022
PROJECT NAME & ADDRESS:

CHRISTOPHER SOLA
RESIDENCE
6346 WIND RIDER WAY,
COLUMBIA, MD 21045

DRAWN BY ESR
SHEET NAME ATTACHMENT DETAIL
SHEET SIZE ANSI B 11" X 17"
SHEET NUMBER PV-3