



HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive

Robert K. Sutton
Chairman

Date: September 14, 2021

MEMORANDUM

TO: Mitra Pedoeem
Department of Permitting Services

FROM: Dan Bruechert
Historic Preservation Section
Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit # 966008 - Roof Solar Array

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **approved** by historic preservation 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: Diogo Coelho
Address: 13 Grafton St., Chevy Chase

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Dan Bruechert at 301.563.3400 or dan.bruechert@montgomeryplanning.org to schedule a follow-up site visit.





HISTORIC PRESERVATION COMMISSION

HAWP #: _____ at: _____
submitted on: _____
has been reviewed and determined 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 [Signature] on _____. The approval memo and stamped drawings follow.

DIOGO COELHO PROPERTY : 13 GRAFTON ST, CHEVY CHASE MD 20815

SOLAR PHOTOVOLTAIC SYSTEM: 19.38 KW

EQUIPMENT SUMMARY:

SOLAR MODULES: 51 x Q CELLS 380 Q.PEAK DUO BLK ML-G9+ - 380W MODULES

INVERTER(S): 51 x - ENPHASE - IQ7PLUS-72-2-US MICROINVERTERS

RACKING: OMG (Flush mount)

SHEET INDEX:

- G001 COVER SHEET
- G002 GENERAL NOTES
- Z001 PROPERTY LAYOUT
- Z002 PV LAYOUT
- Z003 STRING LAYOUT
- Z004 ATTACHMENT LAYOUT
- S001 ATTACHMENT DETAILS
- E001 ELECTRICAL THREE LINE DIAGRAM
- E002 BOQ & SYSTEM DETAILS
- E003 SYSTEM LABELING DETAILS
- G003 BILL OF MATERIALS

APPLICABLE CODES AND STANDARDS:

- BUILDING: IBC 2018, 12-2013, ASCE 7-16, NDS2018, IRC 2018
- ELECTRICAL: NEC 2017
- FIRE: NFPA 2015

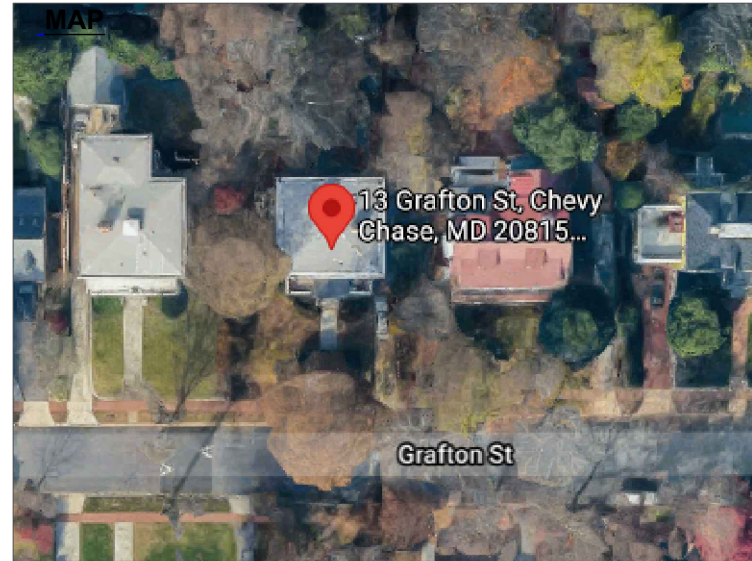
ADDRESS

OWNER:
IP20210505MD
DIOGO COELHO
13 GRAFTON ST, CHEVY CHASE MD 20815

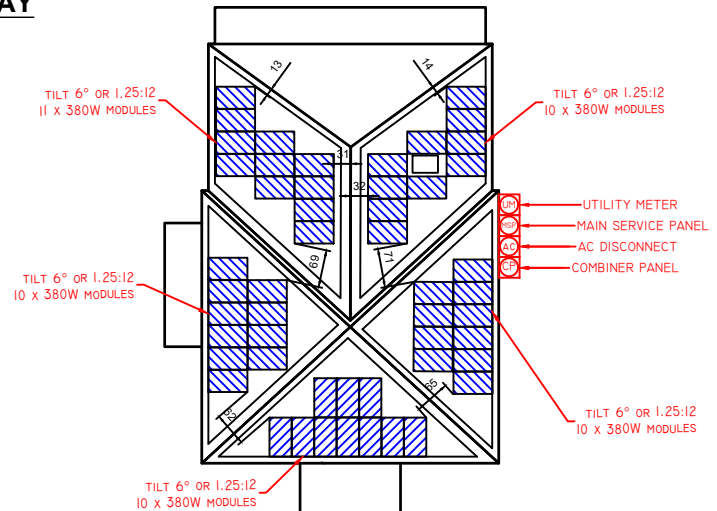
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2817 Dorr Ave Suite D
Fairfax, VA 22031
PHONE: +1 (866) 484-7786
EMAIL: support@ipsunsolar.com



REVIEWED
By Dan.Bruechert at 9:57 am, Sep 14, 2021



PV ARRAY



ANSI Z535.4-2011 Product Safety Signs and Labels, provides guidelines for suitable font sizes, words, colors, symbols, and location requirements for labels. NEC 110.21(B)(1)

Final Production Estimate: 20707kWh



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GENERAL NOTES

ELECTRICAL CONSTRUCTION GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC (NATIONAL ELECTRIC CODE), NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS. ALL WORK SHALL CONFORM TO APPLICABLE STATE AND FEDERAL SAFETY CODES INCLUDING OSHA.
2. WORK UNDER THIS CONTRACT SHALL INCLUDE, BUT NOT BE LIMITED TO, FURNISHING, INSTALLING AND CONNECTION OF ALL ELECTRICAL EQUIPMENT AND TESTING OF ALL SYSTEMS AND SUB-SYSTEMS WITHIN THE SCOPE OF THIS CONTRACT. ANY ERRORS, OMISSION, OR UNCERTAINTY SHALL BE BROUGHT TO THE ATTENTION OF THE PRIME CONTRACTOR AND OR OWNER PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND SECURITY OF THE WORKSITE. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
4. NOTIFY THE PRIME CONTRACTOR OR OWNER IMMEDIATELY AFTER DISCOVERING ANY HAZARDOUS MATERIAL LIKE ASBESTOS.
5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. VERIFY THE EXACT LOCATIONS AND CONDITIONS OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS PRIOR TO ANY WORK. LOCATIONS FOR EQUIPMENT SHALL BE TAKEN FROM THE OTHER SHEETS WHERE THEY OCCUR. EXTEND WIRING FROM ALL JUNCTION BOXES, CONTROL PANELS, PUMPS, RECEPTACLES, SWITCHES, ETC. AND MAKE ALL FINAL CONNECTIONS TO EQUIPMENT AS REQUIRED.
6. THE INTENT OF THESE DRAWINGS IS FOR A COMPLETE ELECTRICAL SYSTEM. ANY ERRORS OR UNCERTAINTY SHALL BE BROUGHT TO THE ATTENTION OF THE PRIME CONTRACTOR AND ENGINEER AS SOON AS FOUND.
7. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE TESTED AS A COMPLETE WORKING SYSTEM.
8. WE WILL RESTORE ALL DAMAGES RESULTING FROM WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.
9. ALL ITEMS ARE NEW (NEW) UNLESS NOTED AS EXISTING (EXIST) AS MARK IN THE TABLE.
10. ALL CONDUITS SHALL BE EMT, INTERMEDIATE METAL CONDUIT, OR RIGID STEEL. MINIMUM SIZE SHALL BE 1/2". ALL CONDUIT, BOXES AND ELECTRICAL FITTINGS SHALL BE STEEL.
11. ALL EXTERIOR EQUIPMENT SHALL BE IN WEATHERPROOF (NEMA 3R) ENCLOSURES. ALL NEW WIRING SHALL BE IN CONDUIT, SUITABLE FOR SUN EXPOSURE AND WET LOCATIONS. FIELD APPLIED COATING ARE NOT ACCEPTABLE.
12. INVERTERS MUST COMPLY WITH UL 1741 TO PREVENT ISLANDING ON POWER FAILURE. THE INVERTER SHALL PUT NOT POWER ON TO THE GRID IF THE GRID IS OFF-LINE. ALL SYSTEM COMPONENTS (MODULES AND INVERTERS ETC) SHALL BE UL LISTED.
13. MOUNT TO ROOF USING UL APPROVED MOUNTING HARDWARE. FOLLOWING MANUFACTURERS DIRECTIONS. MOUNTING HARDWARE EVERY 4' ON CENTER UNLESS OTHERWISE NOTED.
14. OBTAIN THE BEST INFORMATION ON UNDERGROUND UTILITIES IN AREAS BEING TRENCHED. USE 'DIG ALERT' OR OTHER LOCATING SERVICE BEFORE DIGGING.

GROUNDING NOTES

1. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED PER THE REQUIREMENTS OF NEC ARTICLES 250 & 690.
2. PV MODULES SHALL BE GROUNDED TO MOUNTING RAILS USING MODULE LUGS OR RACKING INTEGRATED GROUING CLAMPS AS ALLOWED BY LOCAL JURISDICTION. ALL OTHER EXPOSED METAL PARTS SHALL BE GROUNDED USING UL-LISTED LAY-IN LUGS.
3. IF THE EXISTING MAIN SERVICE PANELS DOES NOT HAVE A VERIFIABLE GROUNDED ELECTRODE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDED ELECTRODE.
4. EQUIPMENT GROUNDED CONDUCTORS SHALL BE SIZED ACCORDING TO NEC ARTICLE 690.45, AND BE A MINIMUM OF #10AWG WHEN NOT EXPOSED TO DAMAGE, AND #8AWG SHALL BE USED WHEN EXPOSED TO DAMAGE.



REVIEWED

By Dan.Bruechert at 9:57 am, Sep 14, 2021

ADDERS

Squirrel Guard	
U-Anchor	X
Skirt	
Omnidian	X
Trenching	
EV charger	
Breaker Box upgrade	
Supply Side Connection	
Pipe Standoffs	
GSM Kit	
Battery Storage	
Consumption meter	
Breaker Brand and Size	
Extended Inverter Warranty	X
Multiple Arrays	
Zilla Flashing	

CLIENT NOTES

SELLER INFO

NAME	Joe Marhamati
PHONE	202.297.8326
EMAIL	Joe@ipsunsolar.com

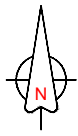


8/30/2021
G002

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ROOF SIZE		
RAFTER LENGTH	20	ft
PITCH	6	°
RUN	19.9	ft
TOTAL WIDTH	19.9	ft

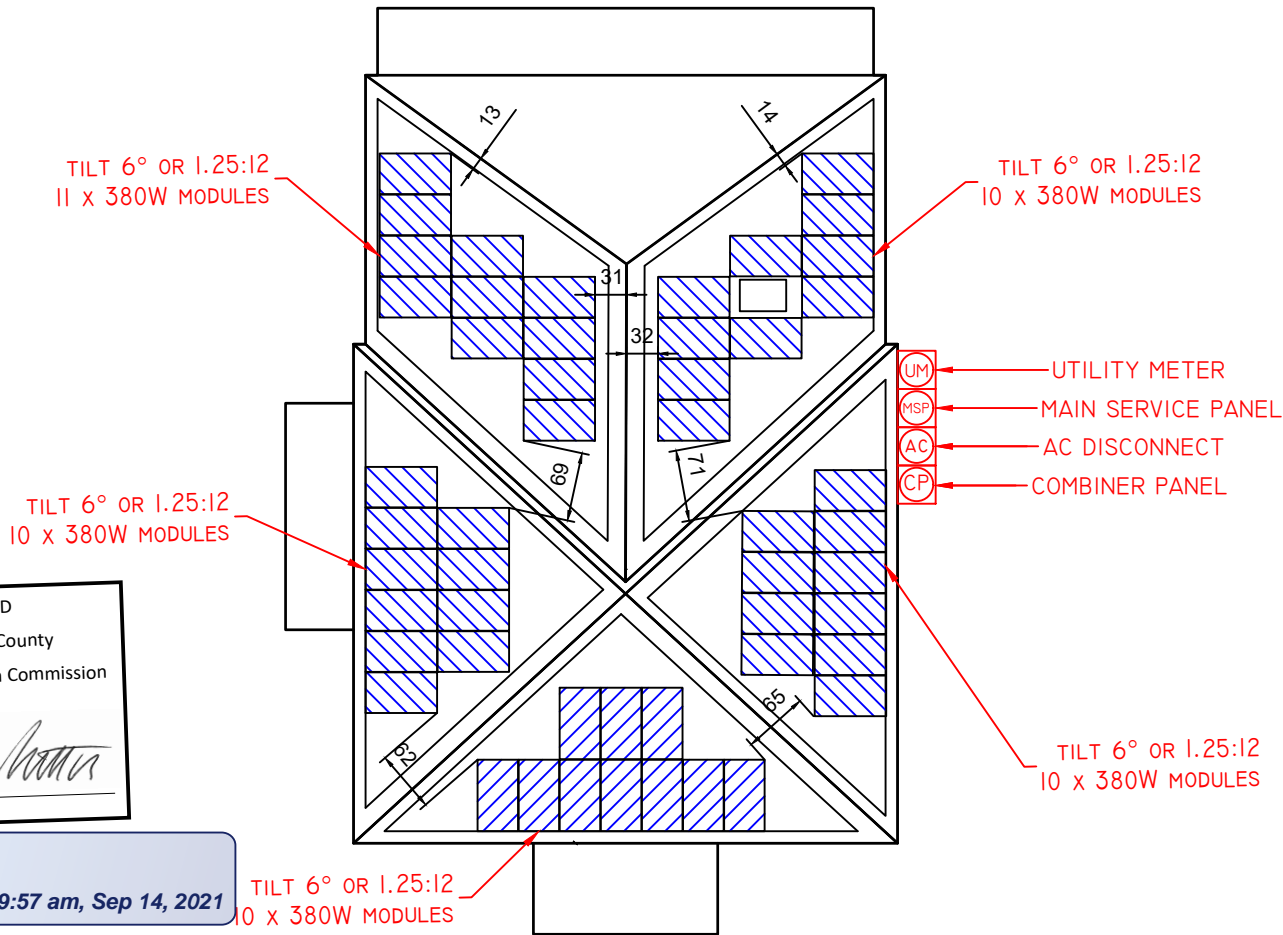
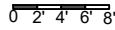
WEATHER	
SNOW	30psf
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	B
WIND SPEED	115MPH

ROOF	
ROOF ATTACHMENT	FLUSH ROOF MEMBRANE ATTACHMENT
ROOF TYPE	ROLLED COMP / MEMBRANE
RAFTER SIZE	2x6 @ 24"
ROOF AREA	3150 sq.ft.
ARRAY AREA	1041 sq.ft.
PV % AREA	33%
LAG EMBEDMENT	2.5 inches

PV LAYOUT

3FT SETBACK FROM THE RIDGE + 3FT FROM THE BOTTOM TO THE TOP OF THE ROOF (1SIDE)

SCALE: $\frac{1}{16}'' = 1'-0''$



APPROVED
 Montgomery County
 Historic Preservation Commission



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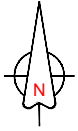
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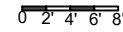


STRING LAYOUT

THE MAXIMUM CAPACITY OF MODULES ON 1 STRING

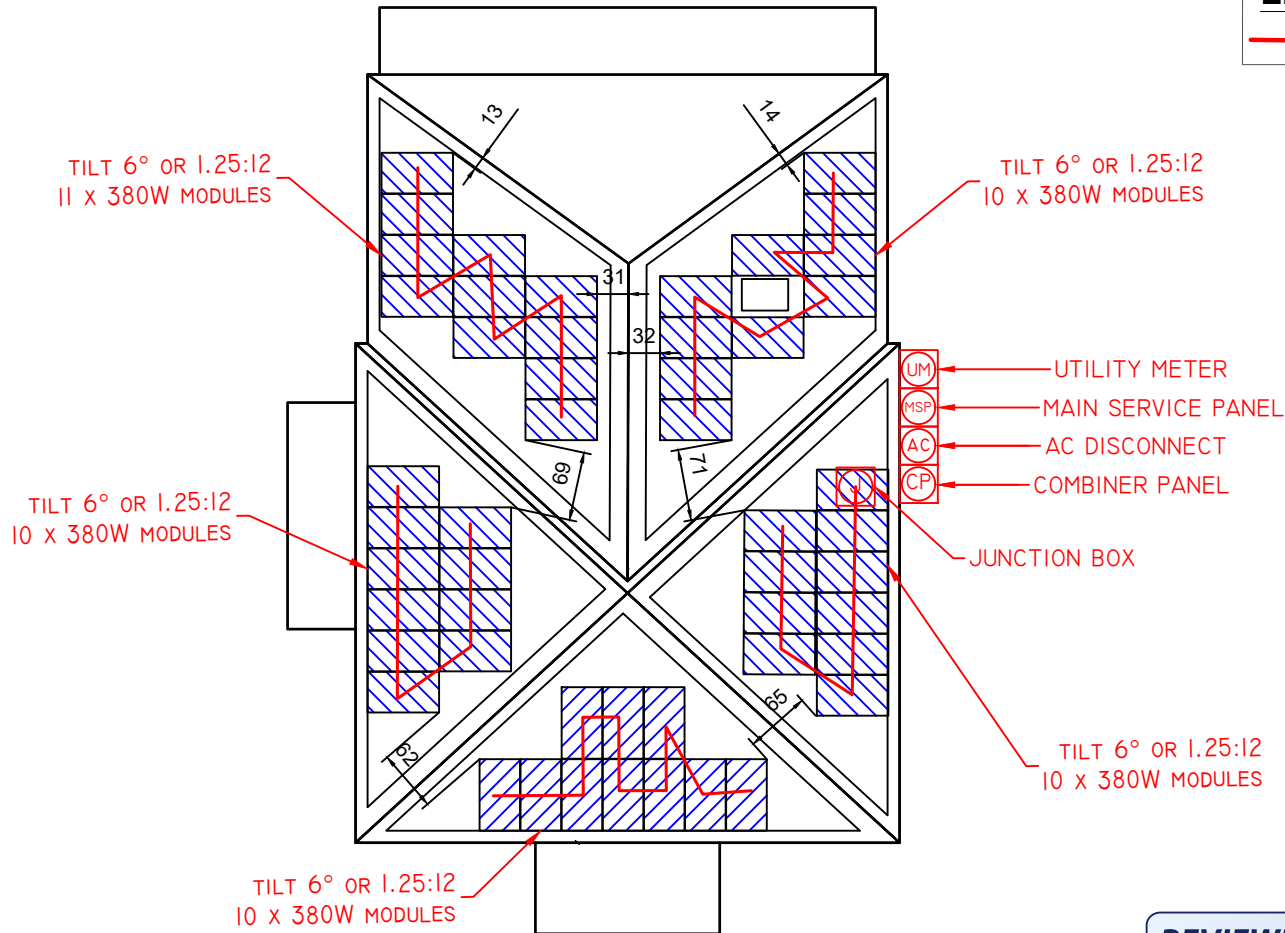
ENPHASE	
ENPHASE IQ7+	
13 MODULES	

SCALE: 1/16" = 1'-0"



LEGEND:

— : string



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IPSUN SOLAR

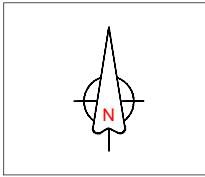
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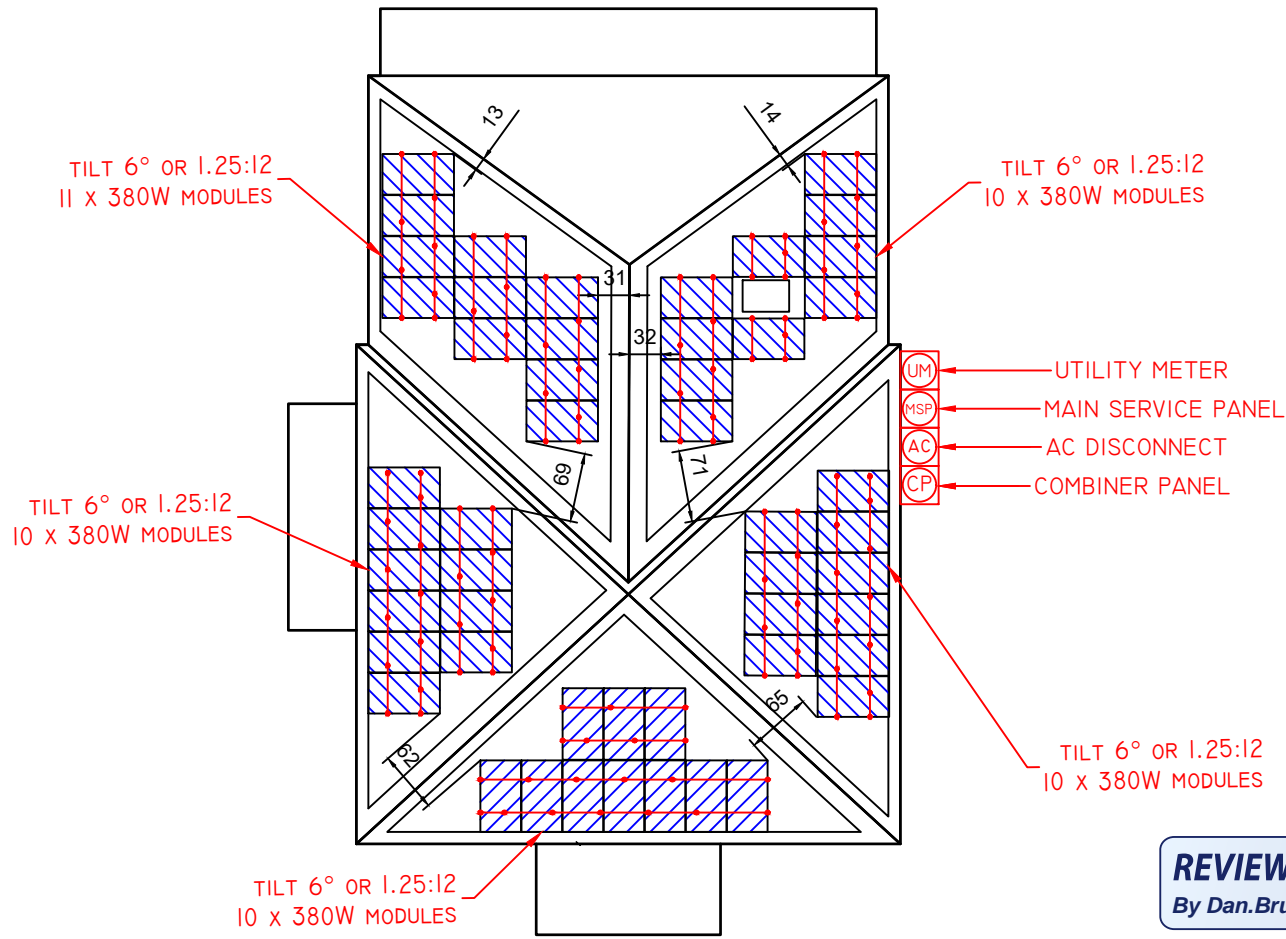
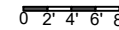
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ATTACHMENT LAYOUT

DETAILS ON S001

SCALE: $\frac{1}{16}'' = 1'-0''$



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 Montgomery County
 Historic Preservation Commission

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 By Dan.Bruechert at 9:57 am, Sep 14, 2021

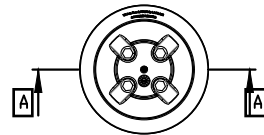
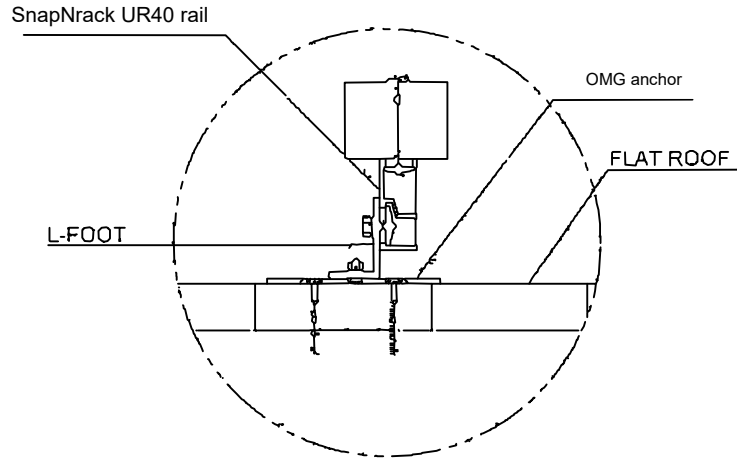
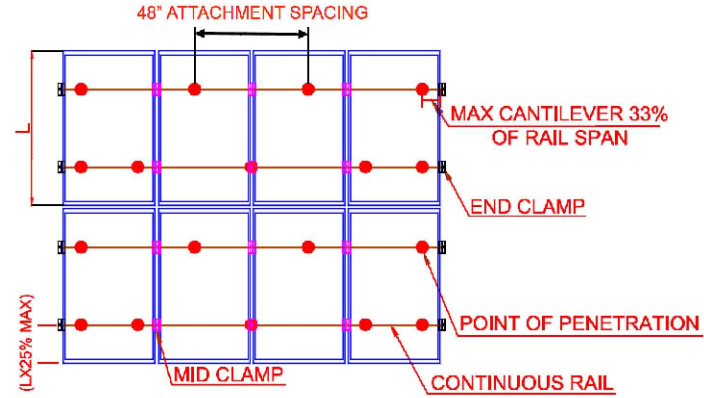
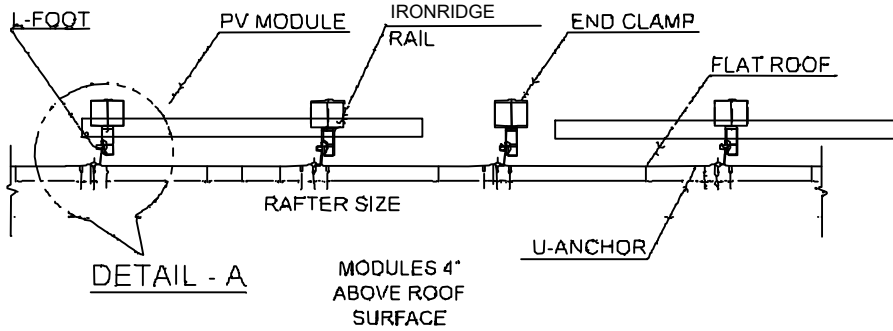


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 1 JM DH 2004

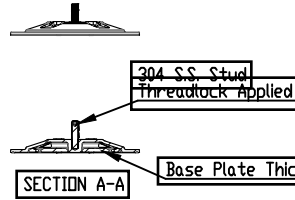
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OMG attachment needs 4 -#14 screws



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MODULE SURFACE 4" ABOVE ROOF SURFACE

SYSTEME WEIGH	2.0	PSF
---------------	-----	-----

Unstaggered attachment @	48	inches
Max Cantiliver	16	inches
Max distance of rails from the fram	18	inches
Rafter span	24	inches

ROOF	
ROOF ATTACHMENT	FLUSH ROOF MEMBRANE ATTACHMENT
ROOF TYPE	ROLLED COMP / MEMBRANE
RAFTER SIZE	2x6 @ 24"
ROOF AREA	3150 sq.ft.
ARRAY AREA	1041 sq.ft.
PV % AREA	33%
LAG EMBEDMENT	2.5 inches

ATTACHMENT DETAILS



8/30/2021	SHEET	S001
1	JM	DH
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DIOGO COELHO
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DIOGO COELHO PROPERTY : 13 GRAFTON ST, CHEVY CHASE MD 20815

SOLAR PHOTOVOLTAIC SYSTEM: 19.38 KW

ELECTRICAL THREE LINE DIAGRAM

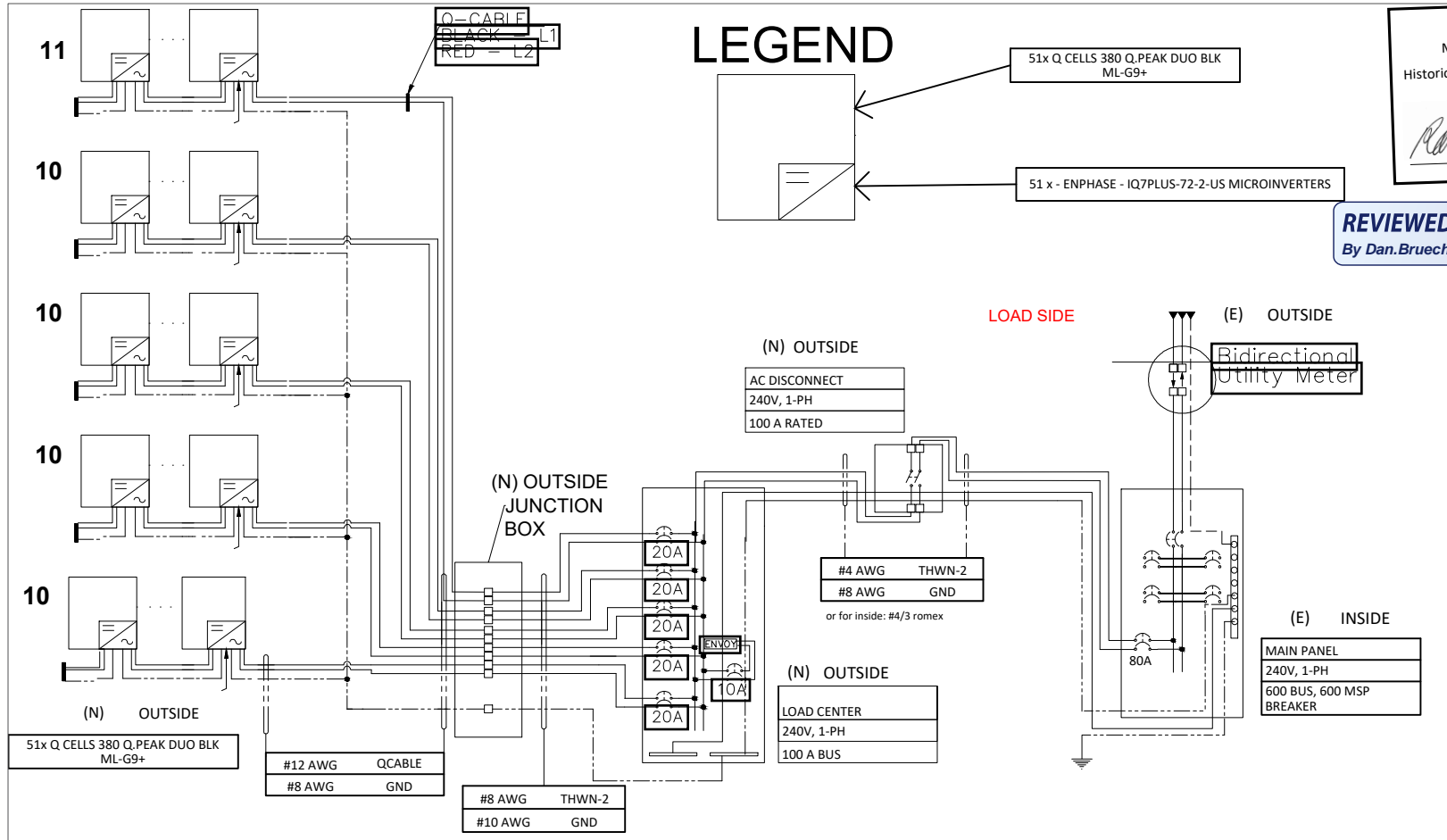
LOAD SIDE

MICROINVERTERS SYSTEM

51 x - ENPHASE - IQ7PLUS-72-2-US MICROINVERTERS

SYSTEM CONFIGURATION

NUMBER OF STRINGS	5	
NUMBER OF MODULES	51	
MAX PV ON 1 STRING	13	
NUMBER OF INVERTERS	51	
MODULE MODEL	Q CELLS 380 Q.PEAK DUO BLK ML-G9+	
INVERTER MODEL	ENPHASE IQ7PLUS-72-2-US	
MAX AC OUTPUT CURRENT	61.71	A
OPERATING AC VOLTAGE	240	V



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Robert H. ...

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E001

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(E) INSIDE
MAIN PANEL
240V, 1-PH
600 BUS, 600 MSP
BREAKER

(N) OUTSIDE
AC DISCONNECT
240V, 1-PH
100 A RATED

(N) OUTSIDE
JUNCTION BOX

(N) OUTSIDE
LOAD CENTER
240V, 1-PH
100 A BUS

(E) OUTSIDE
Bidirectional
Utility Meter

Q-CABLE
BLACK = L1
RED = L2

#12 AWG QCABLE
#8 AWG GND

#8 AWG THWN-2
#10 AWG GND

#4 AWG THWN-2
#8 AWG GND
or for inside: #4/3 romex

11
10
10
10
10

51x Q CELLS 380 Q.PEAK DUO BLK ML-G9+

SYSTEM LABELING DETAIL:

Alternate Power Source Placard shall be metallic or plastic with engraved or machine printed letters in a contrasting color to the plaque, include the location of meter, disconnects, inverter, the array and a footprint of the entire building and site. This plaque will be attached by pop rivets, screws or other approved fasteners. If exposed to sunlight, it shall be UV resistant. Photovoltaic DC conductors entering the building shall be installed in a raceway and shall be identified every 10 feet -- and within 1 foot of turns or bends and within 1 foot above and below penetrations of roof/ceiling assemblies, walls, or barriers labeled.

LABEL FONT REQUIREMENTS :

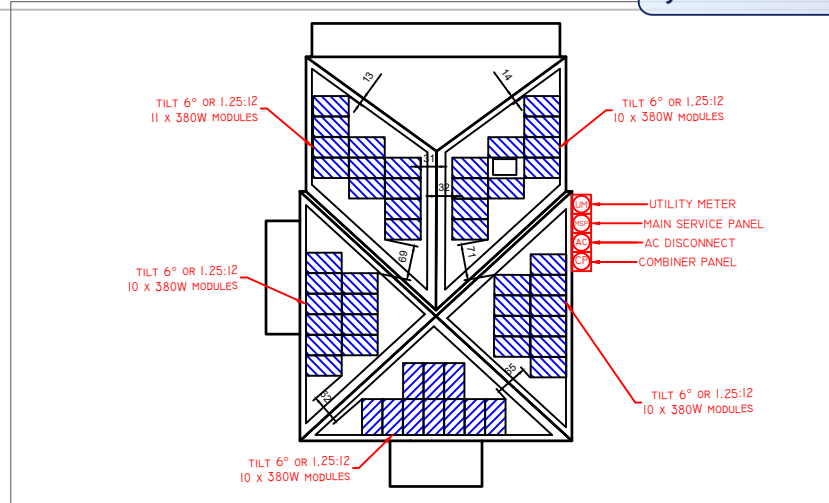
Red back ground. White lettering. ("WARNING"-3/8" LETTERS). All capital letters. Arial or similar font. Weather-resistant material UL 969. 110.21(B) Field-Applied Hazard Markings. Where caution, warning, or danger signs or labels are required by this Code, the labels shall meet the following requirements. (1)The marking shall adequately warn of the hazard using effective words and/or colors and/or symbols. Informational Note: ANSI Z535.4-2011, Product Safety Signs and Labels, provides guidelines for suitable font sizes, words, colors, symbols, and location requirements for labels. (2)The label shall be permanently affixed to the equipment or wiring method and shall not be hand written. Exception to (2): Portions of labels or markings that are variable, or that could be subject to changes, shall be permitted to be hand written and shall be legible. (3)The label shall be of sufficient durability to withstand the environment involved



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DC DISCONNECT WARNING	AC DISCONNECT WARNING
PHOTOVOLTAIC SYSTEM DC DISCONNECT	PHOTOVOLTAIC SYSTEM AC DISCONNECT
OPERATING VOLTAGE V DC	OPERATING VOLTAGE 240 V AC
OPERATING CURRENT A DC	OPERATING CURRENT 62 Amps
MAX SYSTEM VOLTAGE V DC	
SHORT CIRCUIT CURRENT A DC	
WARNING: PHOTOVOLTAIC POWER SOURCE	WARNING: PHOTOVOLTAIC POWER SOURCE
ELECTRIC SHOCK HAZARD	ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS; TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION	DO NOT TOUCH TERMINALS; TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION
PER NEC 690.14 (c-)(2), 690.17(4), 690.54	PER NEC 690.14 (c-)(2), 690.17(4), 690.54
<small>Per NEC 690.53 operating voltage, operating current, max system voltage, short circuit current, and maximum output current of the charge controller if one is installed</small>	<small>Per NEC 690.54 operating voltage, operating current</small>
<small>PLACE ON: Main Solar Disconnect</small>	<small>PLACE ON: Inverter Breaker Panel if sum of breaker exceeds panel rating</small>
PHOTOVOLTAIC SYSTEM DISCONNECT	WARNING: PHOTOVOLTAIC POWER SOURCE
<small>"PV System Disconnect" label NEC 690.14(c-)(2) Required Disconnect Markings</small>	INVERTER OUTPUT CONNECTION
	<small>DO NOT RELOCATE THIS OVER CURRENT DEVICE</small>
	<small>Inverter output connection "label NEC 705.12(7) Point of Connection</small>
DC LABELS	
<small>PLACE ON 1.DC Junction Boxes 2. DC Combiner Boxes</small>	
WARNING: PHOTOVOLTAIC POWER SOURCE	
ELECTRIC SHOCK HAZARD	
<small>THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED</small>	
<small>"Electric shock hazard" label NEC 690.35(F) ungrounded PV system</small>	
<small>PLACE ON 1.DC Junction Boxes 2. DC Combiner Boxes</small>	



WARNING: PHOTOVOLTAIC POWER SOURCE
INVERTER OUTPUT CONNECTION
SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM
<small>"Dual Power Supply" label NEC 690.64, 705.12(4) point of connection</small>
WARNING: PHOTOVOLTAIC POWER SOURCE
ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS; TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION
<small>"Do Not Touch terminals" labels NEC 690.17(4) Switch or Circuit Breaker</small>
THIS ELECTRIC SYSTEM IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM
CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

	OTHERS		
	<small>PLACE ON: All DC Source Markings and System Output Conductor Raceways</small>	<small>PLACE ON: Next to Inverter Interconnection Breaker, Load center, & Service Panel</small>	<small>PLACE ON: inverter</small>
CAUTION SOLAR CIRCUIT	PV SOLAR BREAKER	PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN	WARNING: PHOTOVOLTAIC POWER SOURCE
	<small>DO NOT RELOCATE THIS OVER CURRENT DEVICE</small>		ELECTRIC SHOCK HAZARD
			<small>IF GROUND FAULT IS INDICATED, ALL NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED</small>

SYSTEM LABELING DETAILS



8/30/2021
E003

DATE	SHEET	PAGE
1	JM	DH
REVIEW	DRAWING BY	CHECKED BY

INSTALLER:
IPSUN POWER, INC DBA IPSUN SOLAR
2817 Dorr Ave Suite D
Fairfax, VA 22031
PHONE: +1 (866) 484-7786
EMAIL: support@ipsunsolar.com

OWNER:
IP210210503MD
DIGGO COE/HO
13 GRAFTON ST, CHEVY CHASE MD 20815

BILL OF MATERIALS

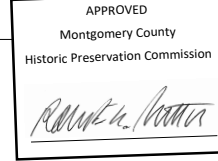
SIGNATURES:

Project manager:

Warehouse manager:

Crew lead:

EXTRA NOTES:



REVIEWED

By Dan.Bruechert at 9:57 am, Sep 14, 2021

Zilla Flashing		Breaker Box upgrade	
Trenching		Consumption meter	
EV charger			

3x drill bits + 3x blades
 1x 1" LOCKRING AND C-TAP GROUND FOR JB
 5x termination cap

ATTACHMENTS

OMG (FLUSH MOUNT)

Part Number	Description	Qty	Extra	Total
PGRPU7-STD12	POWER GRIP UNV-7 NON-PVC, 12PK		0	0
232-01106	232-01106	120	-	
232-02536	SNAPNRACK, UR-40 RAIL, 172IN, MILL	26	-	26
242-01213	SNAPNRACK, UR-40 SPLICE, SILVER	6	-	6
242-02071	SNAPNRACK, ULTRA RAIL MID CLAMP, BLACK	76	-	76
242-02215	SNAPNRACK, UNIVERSAL END CLAMP	52	-	52
232-02452	SNAPNRACK, UR-40 END CAP	52	-	52
Lfeet	Lfeet	106	-	106
242-02101	SNAPNRACK, GROUND LUG ASSEMBLY, 6-12 AWG	26	-	15
242-92093	SNAPNRACK, MLPE RAIL ATTACHMENT KIT	51	-	51
242-02150	242-02150	26		

SOLAR PANELS

51x Q.PEAK DUOBLK ML G9+ 380W*

INVERTERS

51x IQ7PLUS-72-2-US*

EXTRA EQUIPMENT

1x SNAPNRACK RAILMOUNT JB

1x STRAIN RELIEF CONNECTOR

51x Q12-17-240

1x Metal stake + 1x Yardsign



8/30/2021
G003

DATE	SHEET	PAGE
1	JM	DH
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 PHONE: +1 (866) 484-7786
 EMAIL: support@ipsunsolar.com

OWNER:
 IP20210505MD
 DIOGO COELHO
 13 GRAFTON ST, CHEVY CHASE MD 20815

BILL OF MATERIALS

SIGNATURES:

Project manager:

Warehouse manager:

Crew lead:

EXTRA NOTES:

1x box of EMT raintight connectors
 2x 1" LB + 2x 1" LR + 2x 1" LL
 2x 1" hubs and hubs lock rings
 1x exterior WPJB + 1x Whit Gasket + 1x cover
 7x 1" 1HOLE STRAP
 1 box of coupling
 2x G/R clamps copper
 2x 5/8" ground rods

20ft of #4/3 romex
 5 sticks of EMT
 15x CONICAL 14-16X1 3/8- Redheads
 15x #14 1-1/4" PAN HEAD SCREW
 2x ACORN- Ground Rod Clamp, 5/8"
 2x Ground Rod, Copper, 5/8", 8' Long
 50ft of Wire, Bare #6 -Solid

2x box of LB Gray duct seal
 2x INSULATED GROUND BUSHING- 1"

ELECTRICAL EQUIPMENT

1x Other280 TO THE MSP
 1x QUAD 2020


1x COMBINER BOX X-IQ-AM1-240-3-ES
 3x BR220 2P-120/240V-20A CB TO THE COMBINER BOX
 1x EA DG223URB 100A 240V 3SN NF SW N3R

THWN-2: #8 AWG #4 AWG
 GROUND: #6 AWG #4 AWG


Zilla Flashing		Breaker Box upgrade	
Trenching		Consumption meter	
EV charger			

**EQUIPMENT LOCATION WILL BE CLARIFY
 AFTER THE BUILDING CONSTRUCTION.**

APPROVED
 Montgomery County
 Historic Preservation Commission



REVIEWED
 By Dan.Bruechert at 9:56 am, Sep 14, 2021



8/30/2021	DATE	G003
1	SHEET	PAGE
REVIEW	DRAWING BY	CHECKED BY
JM	DM	

INSTALLER:
 IPSUN POWER, INC DBA IPSUN SOLAR
 2817 Dorr Ave Suite D
 Fairfax, VA 22031
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 EMAIL: support@ipsunsolar.com

OWNER:
 IP20210505MD
 DIOGO COELHO
 13 GRAFTON ST, CHEVY CHASE MD 20815

HOSPITALS AND URGENT CARE CENTERS

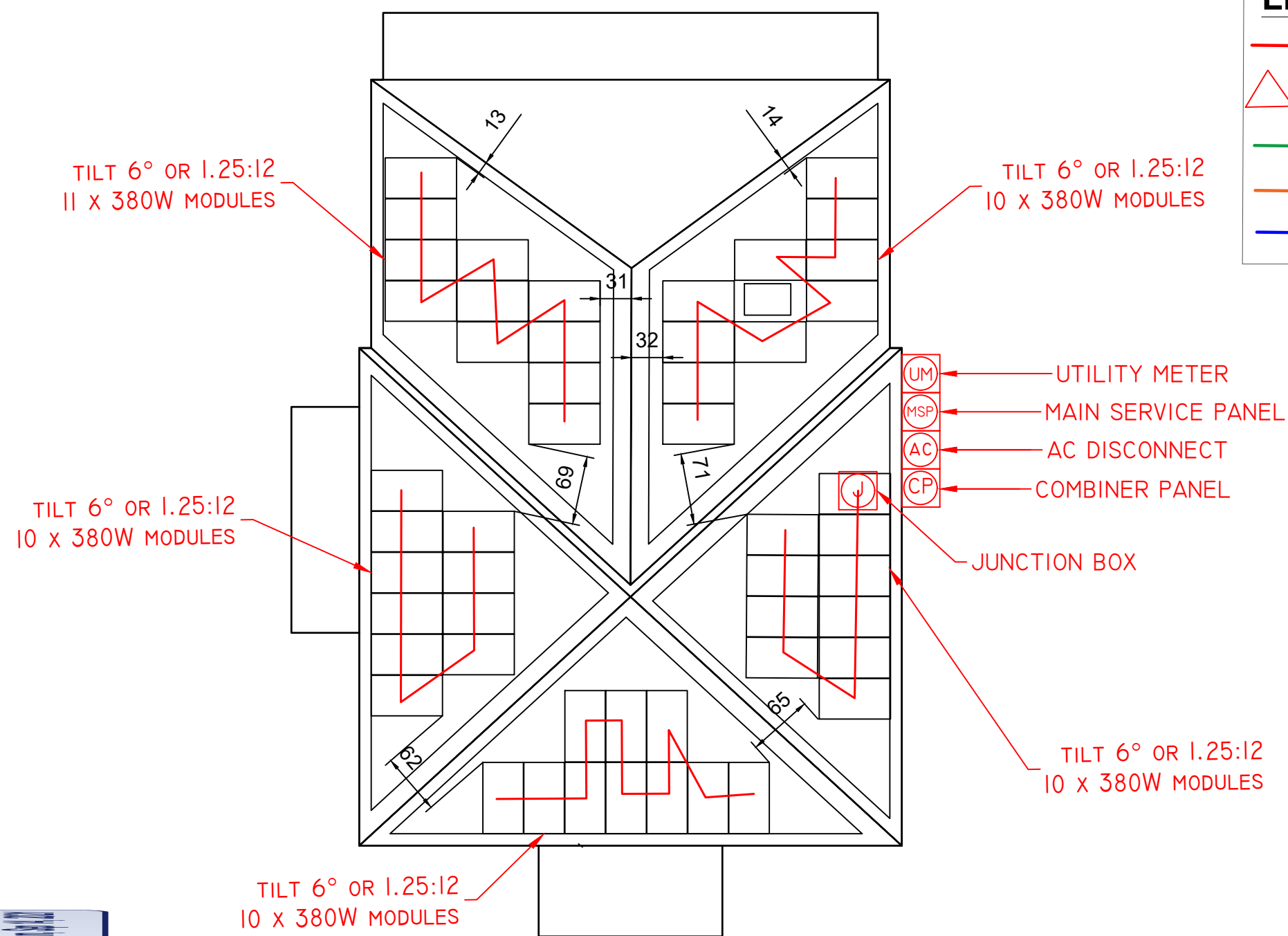
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 #N/A
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STRING LAYOUT AS-BUILT

3FT SETBACK FROM THE RIDGE + 3FT FROM THE BOTTOM TO THE TOP OF THE ROOF (1SIDE)

LEGEND:

- : string
- △ : (fe)male
- : flex
- : romex
- : emt



8/30/2021	CREW1
DATE	SHEET
1	JM
REVIEW	DRAWING BY
	CHEKED BY

INSTALLER:
 IPSUN POWER, INC DBA IPSUN SOLAR
 2817 Dorr Ave Suite D
 Fairfax, VA 22031
 PHONE: +1 (866) 484-7786
 EMAIL: support@ipsunsolar.com

OWNER:
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 DIOGO COELHO
 13 GRAFTON ST, CHEVY CHASE MD 20815



Q.PEAK DUO BLK ML-G9+

365-385

ENDURING HIGH
PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.6%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (6000 Pa) and wind loads (4000 Pa).



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative 12-busbar design with Q.ANTUM Technology.

¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500V, 168h)

² See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:



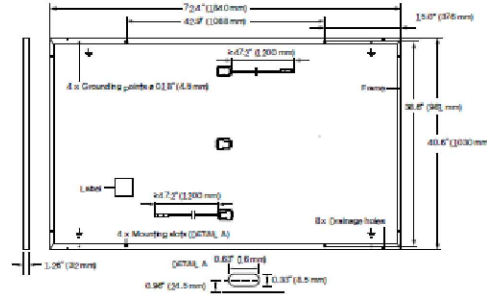
Rooftop arrays on
residential buildings

Engineered in Germany

Q CELLS

MECHANICAL SPECIFICATION

Format	72.4 in × 40.6 in × 1.26 in (including frame) (1840 mm × 1030 mm × 32 mm)
Weight	43.0 lbs (19.5 kg)
Front Cover	0.11 in (2.8 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
	6 × 22 monocrystalline Q.ANTUM solar half cells
	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
	4 mm ² Solar cable; (+) ≥ 47.2 in (1200 mm), (-) ≥ 47.2 in (1200 mm)
	Stäubli MC4; IP68



REVIEWED

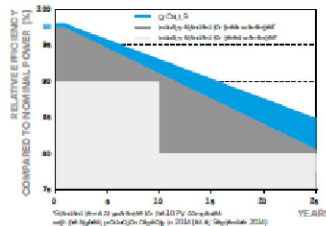
By Dan.Bruechert at 9:56 am, Sep 14, 2021

ELECTRICAL CHARACTERISTICS

	365	370	375	380	385		
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / -0W)							
Minimum	Power at MPP ¹	P_{MPP} [W]	365	370	375	380	385
	Short Circuit Current ¹	I_{SC} [A]	10.40	10.44	10.47	10.50	10.53
	Open Circuit Voltage ²	V_{OC} [V]	44.93	44.97	45.01	45.04	45.08
	Current at MPP	I_{MPP} [A]	9.87	9.92	9.98	10.04	10.10
	Voltage at MPP	V_{MPP} [V]	36.99	37.28	37.57	37.85	38.13
	Efficiency ¹	η [%]	≥ 19.3	≥ 19.5	≥ 19.8	≥ 20.1	≥ 20.3
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P_{MPP} [W]	273.3	277.1	280.8	284.6	288.3
	Short Circuit Current	I_{SC} [A]	8.38	8.41	8.43	8.46	8.48
	Open Circuit Voltage	V_{OC} [V]	42.37	42.41	42.44	42.48	42.51
	Current at MPP	I_{MPP} [A]	7.76	7.81	7.86	7.91	7.96
	Voltage at MPP	V_{MPP} [V]	35.23	35.48	35.72	35.96	36.20

¹Measurement tolerances $P_{MPP} \pm 3\%$; I_{SC} ; $V_{OC} \pm 5\%$ at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 800 W/m², NMOT, spectrum AM 1.5

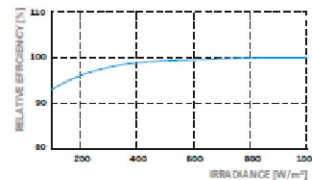
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²)

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α [%/K]	+0.04	Temperature Coefficient of V_{OC}	β [%/K]	-0.27
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.35	Nominal Module Operating Temperature	NMOT [°F]	109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{MYS}	[V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 61730	TYPE 2
Max. Design Load, Push / Pull ¹	[lbs / ft ²]	84 (4000 Pa) / 55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push / Pull ¹	[lbs / ft ²]	125 (6000 Pa) / 84 (4000 Pa)		

¹See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 61730, CE-compliant,
IEC 61215:2016,
IEC 61730:2016,
U.S. Patent No. 8,893,215
(solar cells)



PACKAGING AND TRANSPORT INFORMATION

Horizontal packaging	74.4 in 1890 mm	42.5 in 1080 mm	47.6 in 1208 mm	1458 lbs 661 kg	28 pallets	24 pallets	32 modules
----------------------	--------------------	--------------------	--------------------	--------------------	------------	------------	------------

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.

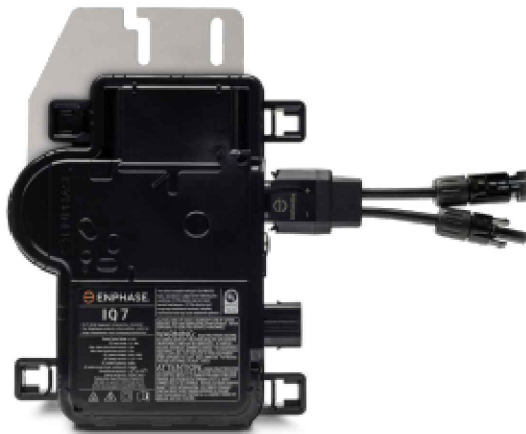
400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | **TEL** +1 949 748 59 96 | **EMAIL** inquiry@us.q-cells.com | **WEB** www.q-cells.us

Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

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)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
- 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
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell modules.



To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US / IQ7-60-B-US		IQ7PLUS-72-2-US / IQ7PLUS-72-B-US	
Commonly used module pairings ¹	235 W - 350 W +		235 W - 440 W +	
Module compatibility	60-cell PV modules only		60-cell and 72-cell PV modules	
Maximum input DC voltage	48 V		60 V	
Peak power tracking voltage	27 V - 37 V		27 V - 45 V	
Operating range	16 V - 48 V		16 V - 60 V	
Min/Max start voltage	22 V / 48 V		22 V / 60 V	
Max DC short circuit current (module Isc)	15 A		15 A	
Overvoltage class DC port	II		II	
DC port backfeed current	0 A		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)	IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit ³	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	0 A		0 A	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.7 leading ... 0.7 lagging		0.7 leading ... 0.7 lagging	
EFFICIENCY	@240 V	@208 V	@240 V	@208 V
Peak CEC efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA				
Ambient temperature range	-40°C to +65°C			
Relative humidity range	4% to 100% (condensing)			
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)			
Connector type (IQ7-60-B-US & IQ7PLUS-72-B-US)	Friends PV2 (MC4 intermateable). Adaptors for modules with MC4 or UTX connectors: - PV2 to MC4: order ECA-S20-S22 - PV2 to UTX: order ECA-S20-S25			
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 lbs)			
Cooling	Natural convection - No fans			
Approved for wet locations	Yes			
Pollution degree	PD3			
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor			
FEATURES				
Communication	Power Line Communication (PLC)			
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.			
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance	CA Rule 21 (UL 1741-SA) 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 manufacturer's instructions.			

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>.

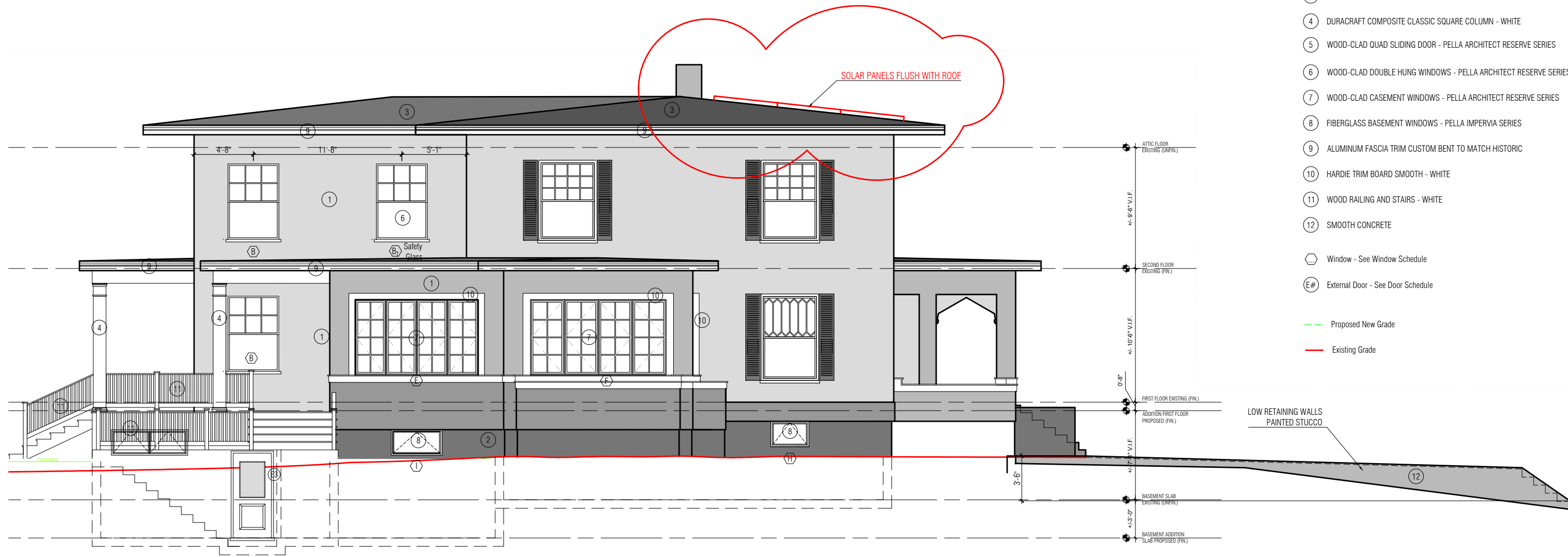
2. Nominal voltage range can be extended beyond nominal if required by the utility.

3. 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



13 GRAFTON ST, CHEVY CHASE
WEST FAÇADE
PROPOSED



MATERIALS LEGEND

- ① COARSE-TEXTURED STUCCO
- ② SMOOTH-TEXTURED STUCCO ON BLOCK FOUNDATION WALLS
- ③ TPO ROOF MEMBRANE
- ④ DURACRAFT COMPOSITE CLASSIC SQUARE COLUMN - WHITE
- ⑤ WOOD-CLAD QUAD SLIDING DOOR - PELLA ARCHITECT RESERVE SERIES
- ⑥ WOOD-CLAD DOUBLE HUNG WINDOWS - PELLA ARCHITECT RESERVE SERIES
- ⑦ WOOD-CLAD CASEMENT WINDOWS - PELLA ARCHITECT RESERVE SERIES
- ⑧ FIBERGLASS BASEMENT WINDOWS - PELLA IMPERVIA SERIES
- ⑨ ALUMINUM FASCIA TRIM CUSTOM BENT TO MATCH HISTORIC
- ⑩ HARDIE TRIM BOARD SMOOTH - WHITE
- ⑪ WOOD RAILING AND STAIRS - WHITE
- ⑫ SMOOTH CONCRETE
- ⬡ Window - See Window Schedule
- ⓔ External Door - See Door Schedule

Proposed New Grade
Existing Grade

LOW RETAINING WALLS
PAINTED STUCCO



APPROVED
Montgomery County
Historic Preservation Commission



REVIEWED
By Dan.Bruechert at 9:56 am, Sep 14, 2021

applicant		Norah & Diogo Coelho	
location		13 GRAFTON ST CHEVY CHASE MD 20815	
description		WEST FAÇADE - SOLAR PANELS INSTALLATION PROPOSED	
design	phase	scales	date
ARCHITECTURE	PLANNING	1/8" = 1'	SEPTEMBER 2020
drawn by	signature	job #	drawing # rev
DDC		A01.ARQ.REN	16-PE4 1

Feather & Assoc.

Tolbert V. Feather, Ph.D.

*Advisors for: Landscape Development
Landscape Management, Plant Pest Management*

Chevy Chase Village
5906 Connecticut Avenue
Chevy Chase, MD 20815

February 20, 2020

Tree Evaluation – 13 Grafton Street

See attached plan.

A – Elm Tree – The tree has dead wood to remove. Mature trees naturally shed branches so removing dead wood as it occurs every 2-4 years is normal maintenance. The tree also appears to have a cavity developing where the main branches attach. This needs to be evaluated by a climber. If the climber believes the tree is hazardous, the tree can be removed with a permit.

B – Tulip poplar healthy but has some dead wood to remove.

C – Black Cherry it healthy but has some dead wood to remove.

D – Walnut is healthy but has some dead wood to remove.

E – Hackberry is healthy but has some dead wood to remove.

APPROVED

Montgomery County

Historic Preservation Commission



REVIEWED

By Dan.Bruechert at 9:56 am, Sep 14, 2021

GENERAL NOTES:

1. Property shown in Montgomery County Tax Assessment Map HN-41.
2. All property corners have been recovered or set and verified per a field survey performed: September 26, 2019.
3. The property is recorded among the land records of Montgomery County in Plat Book 2, Plat 106 and as described in Liber 4386 at Folio 486.
4. The information shown hereon has been prepared without benefit of a title report, and therefore may not reflect all easements or encumbrances which may affect subject property.
5. P.O.I. indicates a point set on the property line.
R.B.C. indicates a Rebar & Cap Set or Found.
—OW— Indicates overhead wires.

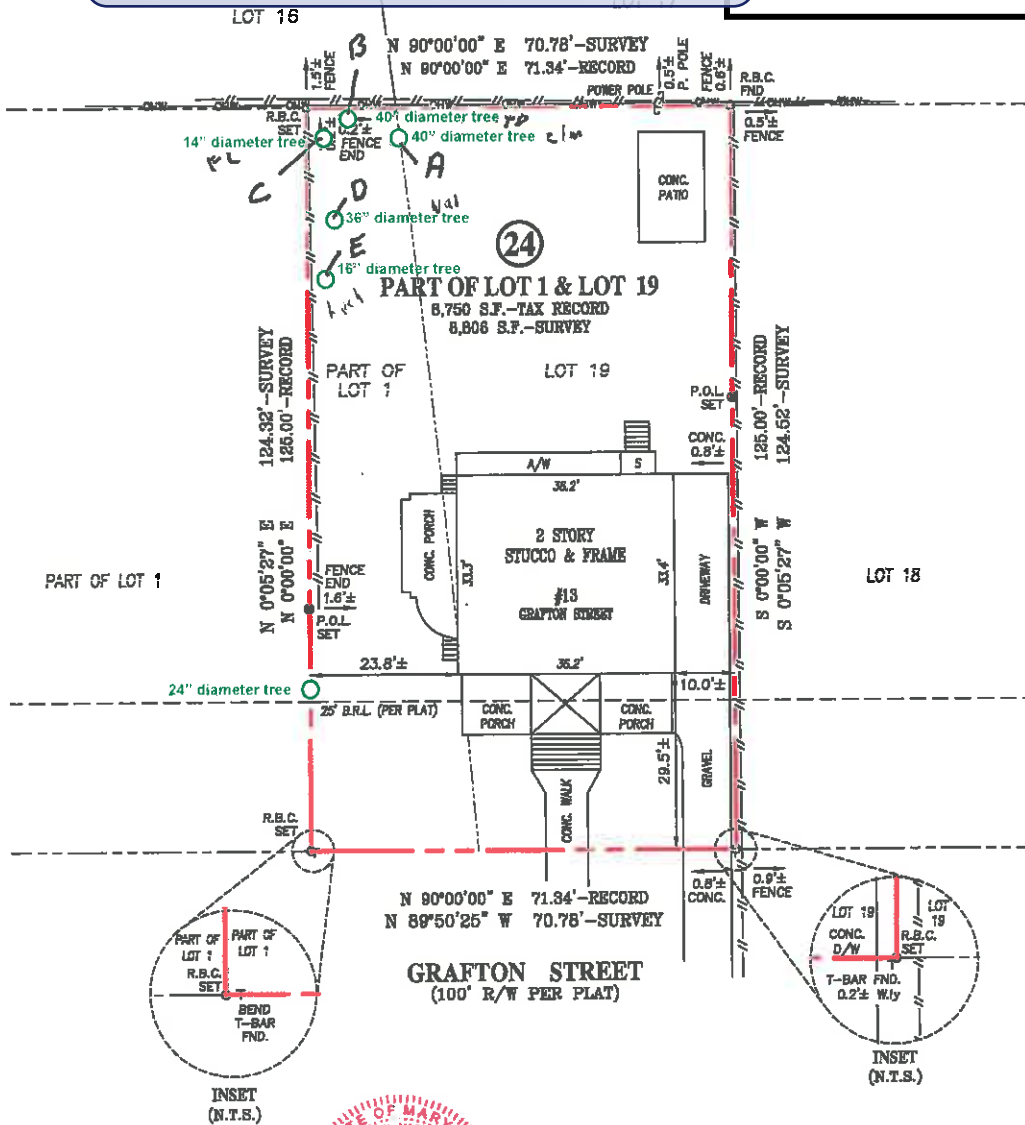
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Historic Preservation Commission




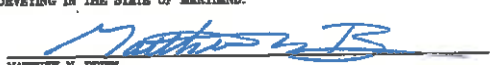
Tree Survey

REVIEWED

By Dan.Bruechert at 9:56 am, Sep 14, 2021



PLAT OF SURVEY
BOUNDARY
PART OF LOT 1 & LOT 19, BLOCK 24
SECTION No. 2
CHEVY CHASE
MONTGOMERY COUNTY, MARYLAND

SURVEYOR'S CERTIFICATE		REFERENCES		SNIDER & ASSOCIATES LAND SURVEYORS	
I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN BASED UPON THE RESULTS OF A FIELD SURVEY PURSUANT TO THE DEED OR PLAT OF RECORD. PROPERTY MARKERS HAVE BEEN RECOVERED OR PLACED IN ACCORDANCE WITH THE INFORMATION SHOWN. THIS PLAT AND THE FIELD SURVEY UPON WHICH IT IS BASED WAS PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REGULATIONS GOVERNING LAND SURVEYING IN THE STATE OF MARYLAND.		PLAT BK.	2		19544 Amaranth Drive Germantown, Maryland 20874 301/948-5100, Fax 301/948-1288 WWW.SNIDER-SURVEY.COM
		PLAT NO.	106		
 MATTHEW N. BRINN MARYLAND PROFESSIONAL LAND SURVEYOR REG. NO. 21408 Expires: 06-08-2020		LIBER	4386	DATE OF LOCATIONS	SCALE: 1" = 20'
		FOLIO	486	WALL CHECK:	DRAWN BY: M. PAGAN
				FILE LOC:	JOB NO.: 19-03525-3
				PROP. CORREL:	08-25-2019