



CITY OF ORANGE HISTORIC PRESERVATION COMMISSION

ORANGE CITY HALL

29 North Day Street, Orange, New Jersey 07050

PHONE (973) 952- 6344 FAX (973) 672-6643

**CITY OF ORANGE PRESERVATION COMMISSION
APPLICATION FOR CERTIFICATION OF APPROPRIATENESS**

DATE RECEIVED 12/20/2022

APPLICATION # A1181-23

APPLICANT(S):

Name of Applicant(s): brook wilson

Address: 570 mantua blvd mantua nj 08080 Email: orbitpermits@orbitenergy.us

862 588 643 Lewis Sadu

Telephone (Day) 800-836-3987 (Eve) _____ (Fax) _____

Relationship of Applicant to Property owner:

Owner(s) Lessee Property Under Contract Other (Specify)

Explanation if Other: contractor

OWNER(S), IF DIFFERENT THAN APPLICANT:

Name(s) of Owner(s): Ardell Long-temple

Address: 531 valley st 3 orange nj 07050 Email: _____

Telephone Number: (Day) 347-848-9950 (Eve) _____

Street Address of the Property that is subject of Application: 531 valley st 3

Tax Block: 6008 Lot: 9

Name of Historic District in which Property lies: _____

Orange Valley Montrose Seven Oaks Park Main Street St. John's

Existing use of the Property:

single family dwelling

Existing zoning of the Property:

single family dwelling

ORANGE CITY CLERK'S OFFICE
RECEIVED
2022 DEC 30 AM 10:11

Describe in detail the proposed work to be done at the Property.

installation of roof mount solar size 10.66kw with electrical work

Explain how you plan to prevent, minimize and mitigate any adverse effects to this Property, to nearby historically significant properties, and to the Historic District?

We will provide a dumpster to clean up any material trash

Each Application must be accompanied by sketches, drawings, photographs, descriptions or other information sufficient to show the proposed alterations, additions, changes or new construction. The Commission may require the subsequent submission of such additional materials as it reasonably requires to make an informed decision. A submission shall include:

- **A photograph of each elevation of the structure.**
- **Three (3) copies of drawings, photographs, material brochures, samples, specifications or information that may be necessary to assist the Commission. Copies may be submitted electronically, or by CD or flash drive.**
- **Three (3) copies of a survey, or if applicable, a site plan showing the location of new and existing structures on the site and their location with respect to the building line, property line, and the front of those buildings or structures immediately adjacent to each side of the lot to be built upon.**
- **Three (3) copies of façade elevation(s), if applicable, of the proposed work in sufficient detail to identify the limits and location of the proposed work, and existing and proposed materials to be used.**
- **\$70.00 Application fee (check or money order made to the City of Orange).**

By signing this Application, I hereby certify that the owner of record authorizes the proposed work and I have been authorized by the owner to make this Application as his/her authorized agent. By signing this Application, the owner hereby grants authorization to the Commission members, and its professional and support staff to enter the Property in question for inspection purposes. By signing this application I further agree that the attorney's and professional staff's review of my application is chargeable to me and that I agree to pay for such review separately from the application fee, by depositing an escrow payment of \$ _____.

Signature of Applicant(s) Brook Wilson

(Print Name) brook wilson

Date 12.22.22

Signature of Owner(s) (if different than Applicant) Ardell Long Temple

(Print Name) ardell long temple

Date 12.22.22

Submittal of this Application form-properly signed, with the indicated copies of documents and the Application fee will constitute a complete Application. Upon receipt of a complete Application, the Board Secretary will schedule the Application with the Commission. The Applicant delays his/her own Application if all of these required items are not submitted. The Commission shall reach a decision on the Application within forty-five (45) days of submission of a complete Application. The Applicant must appear in front of the Commission in order to present the Application during the public hearing on the scheduled date.

Telephone: 800-836-3987 Fax: _____ Website: _____

Date payment received: 12/30/22 Check Number: 2110

Date sent to Finance: 12/30/22 Receipt Number: 4984

Certification of Appropriateness Application Form Adopted 10/21/15, revised 10/6/22.



Thomas W. Gillis, AIA, NACRB, LEED AP
11 Billingsport Drive Sicklerville, NJ 08081

t: 856.725.5770 w: gillisdesigngroup.com e: tomwgillis@gmail.com

12/9/2022

STRUCTURAL FRAMING ANALYSIS AND REVIEW FOR SOLAR SYSTEM ROOF TOP INSTALLATION FOR:

Ardell Long-Temple

531 VALLEY ST FL1 RR

Orange City, NJ, 07050

System Size: 10.66

THE STRUCTURE FOR THE BUILDING HAS BEEN EVALUATED FOR THE ADDITIONAL LOAD OF SOLAR PANELS TO BE PLACED IN SERVICE AND FOUND TO BE ACCEPTABLE. ROOF SECTIONS 1, 2, 3, 4, 5 WERE FOUND TO BE CONSTRUCTED OF 2X6 RAFTERS @ 16" O.C. WITH COLLAR TIES WITH KNEE WALLS WITH 1/2" PLYWOOD SHEATHING AND ASPHALT SHINGLES. ROOF SECTION 6 WAS FOUND TO BE CONSTRUCTED OF 2X8 RAFTERS @ 16" O.C. WITH 1/2" PLYWOOD SHEATHING AND ASPHALT SHINGLES. THE ADDITIONAL SOLAR PANEL LOAD TO THE BUILDING'S ROOF HAS BEEN CALCULATED TO BE 2.25 LBS. PER SQ. FOOT. THE NEW SUPERIMPOSED LOAD IS UNDER THE RECOMMENDED NOT TO EXCEED MAXIMUM OF 4 LBS. PER SQ. FT. THUS MAKING THE ROOF CAPABLE OF SUPPORTING THE ADDITIONAL LOAD. THE ROOF WAS FOUND TO BE CAPABLE OF SUPPORTING THE ADDITIONAL LOAD

LOAD TABULATION FOR RESIDENCE:

ROOF FRAMING: RAFTERS @ 16" O.C. W/ COLLAR TIES W/ KNEE WALLS
W/ 1/2" PLYWOOD SHEATHING W/ ASPHALT SHINGLES

WIND LOAD: 115 MPH CAT 2

SNOW LOAD: 25 PSF

LAG SCREW DIAM. (IN): 4

LAG SCREW EMBED (IN): 2.5

ROOF MEAN HEIGHT (FT): 6'

ROOF SLOPE (DEGREES): 40

OVERALL MAX SPAN (FT): 10'10"

LAG SPACING TO BE 48" MAXIMUM HORIZONTAL

REFERENCE CODES: 2018 INTERNATIONAL RESIDENTIAL CODE, 2018 INTERNATIONAL BUILDING CODE, AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE/SEI 7-05, 7-10) NATIONAL DESIGN SPEC. FOR WOOD CONSTR. (NDS LATEST EDITION)

LOAD TABULATION: FOR RESIDENCE ROOF SECTION 1

ROOF FRAMING, 2X6 RAFTERS @ 16" O.C. W/ COLLAR TIES W/ KNEE WALLS
W/ 1/2" PLYWOOD SHEATHING W/ ASPHALT SHINGLES

6 SOLAREVER 410W SOLAR PANELS WITH A WEIGHT 47.4 LBS. EA. TOTAL WEIGHT 284.4 LBS.

PANEL AREA 21.03 SQ.FT. PER PANEL = 126.18 SQ.FT.

DISTRIBUTED LOAD = TOTAL PANEL WEIGHT / TOTAL PANEL AREA = 284.4/126.18 = 2.25 LBS. PER. SQ.FT.

LOAD TABULATION: FOR RESIDENCE ROOF SECTION 2

ROOF FRAMING, 2X6 RAFTERS @ 16" O.C. W/ COLLAR TIES W/ KNEE WALLS
W/ 1/2" PLYWOOD SHEATHING W/ ASPHALT SHINGLES

5 SOLAREVER 410W SOLAR PANELS WITH A WEIGHT 47.4 LBS. EA. TOTAL WEIGHT 237 LBS.

PANEL AREA 21.03 SQ.FT. PER PANEL = 105.15 SQ.FT.

DISTRIBUTED LOAD = TOTAL PANEL WEIGHT / TOTAL PANEL AREA = 237/105.15 = 2.25 LBS. PER. SQ.FT.



Thomas W. Gillis, AIA, NACRB, LEED AP
11 Billingsport Drive Sicklerville, NJ 08081

t: 856.725.5770 w: gillisdesigngroup.com e: tomwgillis@gmail.com

LOAD TABULATION: FOR RESIDENCE ROOF SECTION 3

ROOF FRAMING, 2X6 RAFTERS @ 16" O.C. W/ COLLAR TIES W/ KNEE WALLS

W/ 1/2" PLYWOOD SHEATHING W/ ASPHALT SHINGLES

4 SOLAREVER 410W SOLAR PANELS WITH A WEIGHT 47.4 LBS. EA. TOTAL WEIGHT 189.6 LBS.

PANEL AREA 21.03 SQ.FT. PER PANEL = 84.12 SQ.FT.

DISTRIBUTED LOAD = TOTAL PANEL WEIGHT / TOTAL PANEL AREA = 189.6/84.12 = 2.25 LBS. PER. SQ.FT.

LOAD TABULATION: FOR RESIDENCE ROOF SECTION 4

ROOF FRAMING, 2X6 RAFTERS @ 16" O.C. W/ COLLAR TIES W/ KNEE WALLS

W/ 1/2" PLYWOOD SHEATHING W/ ASPHALT SHINGLES

3 SOLAREVER 410W SOLAR PANELS WITH A WEIGHT 47.4 LBS. EA. TOTAL WEIGHT 142.2 LBS.

PANEL AREA 21.03 SQ.FT. PER PANEL = 63.09 SQ.FT.

DISTRIBUTED LOAD = TOTAL PANEL WEIGHT / TOTAL PANEL AREA = 142.2/63.09 = 2.25 LBS. PER. SQ.FT.

LOAD TABULATION: FOR RESIDENCE ROOF SECTION 5

ROOF FRAMING, 2X6 RAFTERS @ 16" O.C. W/ COLLAR TIES W/ KNEE WALLS

W/ 1/2" PLYWOOD SHEATHING W/ ASPHALT SHINGLES

4 SOLAREVER 410W SOLAR PANELS WITH A WEIGHT 47.4 LBS. EA. TOTAL WEIGHT 189.6 LBS.

PANEL AREA 21.03 SQ.FT. PER PANEL = 84.12 SQ.FT.

DISTRIBUTED LOAD = TOTAL PANEL WEIGHT / TOTAL PANEL AREA = 189.6/84.12 = 2.25 LBS. PER. SQ.FT.

LOAD TABULATION: FOR RESIDENCE ROOF SECTION 6

ROOF FRAMING, 2X8 RAFTERS @ 16" O.C.

W/ 1/2" PLYWOOD SHEATHING W/ ASPHALT SHINGLES

4 SOLAREVER 410W SOLAR PANELS WITH A WEIGHT 47.4 LBS. EA. TOTAL WEIGHT 189.6 LBS.

PANEL AREA 21.03 SQ.FT. PER PANEL = 84.12 SQ.FT.

DISTRIBUTED LOAD = TOTAL PANEL WEIGHT / TOTAL PANEL AREA = 189.6/84.12 = 2.25 LBS. PER. SQ.FT.

The structure of the building in which is receiving the installation of solar panels was found to be capable of bearing the load of the panels and related equipment without any additional support or renovation, and that the installation will comply with applicable building codes, if properly installed according to instructions.

Should you have any questions please contact our office.

Sincerely,

Thomas W. Gillis, AIA, NCARB, LEED AP.

GENERAL NOTES

- NO NEW CONSTRUCTION IS BEING PROPOSED. PV SYSTEM IS TO BE MOUNTED ON EXISTING ROOF STRUCTURE
- SOLAR PANELS SHALL NOT EXCEED ANY PART OF ROOF EDGE OR PEAK.
- CONTRACTOR SHALL OBTAIN ALL BUILDING AND ELECTRICAL PERMIT ONCE THE PLANS ARE APPROVED FOR CONSTRUCTION. CONTRACTOR SHALL PRESENT PROOF OF INSURANCE, PROOF OF CONTRACTING LICENSE, AND WILL SUBMIT A CHECK IN EXCHANGE FOR THE NECESSARY PERMITS. ALL FEES SHALL BE REIMBURSED AS PER CONTRACT.
- THIS PV SYSTEM INSTALLATION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIALS, CONTRACTOR AND OWNERS. OWNERS REPRESENTATIVES AND MULTIPLE OTHER STAKEHOLDERS
- THIS PROJECT SHALL CONFORM TO THE FOLLOWING CODE VERSIONS: 2018 IBC - INTERNATIONAL BUILDING CODE ASCE 7-05 2017 NEC - NATIONAL ELECTRICAL CODE AC ELECTRICAL INTERCONNECTION GUIDELINES LOCAL CODES OSHA 1910.335
- CONTRACTOR SHALL CHECK AND VERIFY ALL LINES, LEVELS, DIMENSIONS AND SHOW CONDITIONS, AND WILL BE RESPONSIBLE FOR THE CORRECTNESS AND SETTING OUT OF HIS WORK. THE ARCHITECT HAS NOT BEEN RETAINED TO PROVIDE CONSTRUCTION ADMINISTRATION OR SUPERVISION FOR THE PROJECT, AND IS NOT RESPONSIBLE FOR ANY DEVIATION AND/OR MODIFICATION TO WORK INDICATED, DETAIL OR SPECIFIED IN THE DRAWING. ANY CONDITIONS AND/OR DEVIATIONS IN THE DRAWING NOTED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO STARTING WORK.
- DRAWINGS - THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT AND THE EXTENT OF THE WORK TO BE DONE. HOWEVER, THE EXACT LOCATION AND ARRANGEMENT OF ALL COMPONENTS SHALL BE DETERMINED AS WORK PROGRESSES. BECAUSE OF THE SMALL SCALE USED FOR THE DRAWINGS, ALL REQUIRED OFFSETS, MODIFICATIONS, ETC. AS MAY BE REQUIRED TO CLEAR STRUCTURAL WORK, WORK OF OTHER CONTRACTORS, OR OTHER OBSTRUCTIONS, MAY NOT BE SHOWN. THE CONTRACTOR, HOWEVER, SHALL PROVIDE ALL NECESSARY OFFSETS, MODIFICATIONS, ETC. AS REQUIRED TO COMPLETE THE INSTALLATION AT NO ADDITIONAL COST. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL ITEMS, ACCESSORIES, AUXILIARY SYSTEMS, CALLS FOR IN THESE DOCUMENTS WHETHER OR NOT SHOWN AS DETAILS ON THE DRAWINGS. ALL ITEMS NOT SPECIFICALLY MENTIONED IN THE DOCUMENTS OR NOTED ON THE DRAWINGS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.
- DIMENSIONS - NO WORK SHALL BE EXECUTED FROM DIMENSIONS OBTAINED BY SCALING ANY DRAWINGS. EXACT DIMENSIONS, WHERE NEEDED, SHALL BE OBTAINED FROM ACTUAL FIGURES ON THE ARCHITECTURAL DRAWINGS AND SHALL BE SUPPLEMENTED BY SURVEY DATA. MEASUREMENTS SHALL BE TAKEN BY THE CONTRACTOR BEFORE STARTING WORK AND SHALL NOTIFY THE ARCHITECT OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. IF NO DISCREPANCIES ARE BROUGHT TO THEIR ATTENTION, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY.

DRAWING LIST

- A-1- COVER PAGE
- A-2- ROOF PLAN NOTES & DETAILS
- A-3- STRUCTURAL INFORMATION
- A-4- ELECTRICAL INFORMATION
- A-5- SOLAR PANEL & INVERTER SPECS
- A-6- LABELS

MUNICIPALITY: City of Orange
BLOCK: 6008 LOT: 9



ELECTRICAL NOTES

- CONDUIT TO BE SCHEDULE 40 PVC OR "FLEXIBLE METAL CONDUIT" INSIDE ATTC.
- USE SCHEDULE 40 PVC CONDUIT FOR LOCATIONS WITHIN 1 MILE OF SEA WATER.
- ALL INVERTERS AND MODULES ARE LOCATED ON ROOF MOUNTED ATTACHMENT SYSTEM.
- CONDUCTORS COPPER UNLESS OTHERWISE NOTED.
- CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE ENTRANCE BEFORE CONNECTING INVERTER AND ENSURE PROPER OPERATIONAL RANGE REQUIRED BY SYSTEM INVERTER. INVERTER AND ENSURE PROPER OPERATIONAL RANGE REQUIRED BY SYSTEM INVERTER.
- INTERCONNECTION TO UTILITY AND SYSTEM GROUNDING PER NEC-2017 ARTICLE 690.
- PROVIDE SIGNAGE AS REQUIRED BY NEC-2017 ARTICLE 690.
- ALL OUTDOOR EQUIPMENT SHALL BE A MINIMUM OF NEMA-3R RATED.
- PV CIRCUITS ONLY. NO OTHER LOADS SHALL BE APPLIED TO THIS PANEL OTHER THEN PV COMPONENTS AS PER NEC ARTICLE 690.

ROOF LOADS:

GROUND SNOW 25 PSF
WIND LOAD 115 MPH CAT 2
SOLAR ARRAY 4.0 PSF MAX

THE EXISTING ROOF STRUCTURE HAS BEEN EVALUATED FOR THE PROPOSED NEW SOLAR SYSTEM LOAD AND HAS BEEN FOUND TO BE ACCEPTABLE

SOLAR SYSTEM IMPACTING ROOF AS FOLLOWS:
SHINGLE ROOF - MECHANICALLY FASTENED RACKING SYSTEM
SOLAR PANELS
SYSTEM NOT TO EXCEED A WEIGHT OF 4.0 LBS./SQ.FT.

SYSTEM DATA:

SQUARE/EVER 410W
WEIGHT = 47.4 LBS.
AREA = 67.9' x 44.6' NOMINAL (2103 SQ.FT.)
MODULE = 47.4 LBS. OVER 2103 SQ.FT. = 2.25 LBS./SQ.FT.
FOOT SPACING 5.48" O.C. ACROSS PANEL WIDTH WITH 2 ROWS PER MODULE
TYPICAL LAYOUT PROVIDES AN AVERAGE OF 16 FEET PER MODULE.
MODULE WEIGHT DISTRIBUTED PER MOUNTING FOOT = 47.4 LBS. /16 FEET = 2.96 LBS. /AVERAGE FOOT.
DC INPUT RATED POWER - DC SYSTEM RATING (RATED POWER/MODULE) x (# OF MODULES) = DC SYSTEM SIZE (410 W) x (26) = 10660.00



AERIAL VIEW

10,660 kW Solar System for:

Ardell Long-Temple
531 VALLEY ST FL1 RR
Orange City, NJ, 07050

(347) 848-9750, longtemple@gmail.com

PROJECT DATA

BUILDING CODES IBC-2018-NJ ED. IRC-2018-NJ
BUILDING USE: R5- RESIDENTIAL SINGLE FAMILY
EXISTING: 5-8 UNPROTECTED
CONST. CLASS PV SYSTEM SUMMARY
SYSTEM SIZE 10.66 KW
MAJOR COMPONENTS
26 SQUARE FEET - 410W/PANELS
26 - ENHANCE COR + MICRO INVERTERS
FLASHING - ECOFASTEN-ROCKIT
RACKING - RAIL LESS MOUNTING - ECOFASTEN-ROCKIT
STRINGING 2 STRINGS OF 13

TILT & AZIMUTH
6 PANELS ON TILT 25° AZIMUTH 205°
5 PANELS ON TILT 25° AZIMUTH 205°
4 PANELS ON TILT 40° AZIMUTH 25°
3 PANELS ON TILT 40° AZIMUTH 205°
4 PANELS ON TILT 40° AZIMUTH 205°
4 PANELS ON TILT 0° AZIMUTH 115°

BUS BAR RATING 125 AMP
INTERCONNECTION METHOD GRID INTERACTIVE
DC PD MEASURES 100 AMP
ROOF STRUCTURE 1, 2, 3, 4, 5 2X6 RAFTERS @ 16" O.C.
ROOF STRUCTURE 6 2X8 RAFTERS @ 16" O.C.

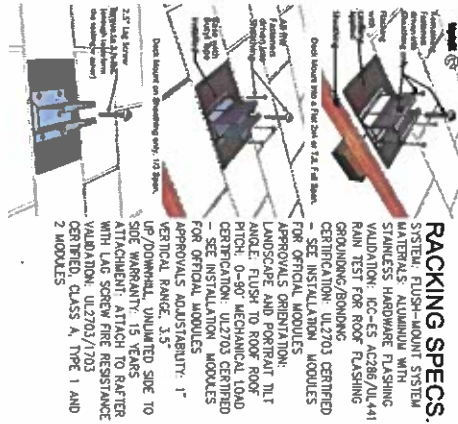
ROOF DETAIL GOOD CONDITION



LOCATION MAP: Coordinates: 39.177231779999999, -75.15

<p>0.660 kW Solar System for: Ardell Long-Temple 531 VALLEY ST FL1 RR Orange City, NJ, 07050</p>	<p>106 MANTUA BLVD. MANTUA, NJ 08051 PHONE: (800) 836-3987</p>	<p>SCALE: AS NOTED DRAWN: HT CHECKED: JMG DATE: 12-30-22 REVISIONS:</p> <p>DRAWING NO. A-1</p> <p>COVER PAGE</p>
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RACKING ATTACHMENT METHODS

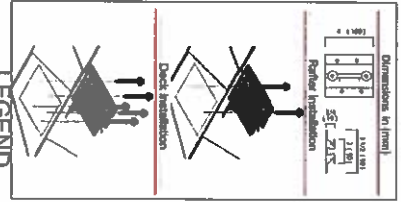


RACKING SPECS.

SYSTEM: RUSH-HOUR SYSTEM
 MATERIALS: ALUMINUM WITH STAINLESS HARDWARE FLASHING
 VALIDATION: ICC-ES AC208/UL441
 RAIN TEST FOR ROOF FLASHING
 GROUNDING/BONDING
 CERTIFICATION: UL2703 CERTIFIED
 - SEE INSTALLATION MODULES FOR OPTICAL MODULES
 APPROVALS ORIENTATION:
 LANDSCAPE AND PORTRAIT TILT
 RANGE: FLUSH TO ROOF AND UP/DOWNHILL, UNLIMITED SIDE TO SIDE WARRANTY, 15 YEARS
 ATTACHMENT: ATTACH TO RAFTER WITH LAG SCREW FIRE RESISTANCE
 VALIDATION: UL2703/1703
 CERTIFIED, CLASS A, TYPE 1 AND 2 MODULES

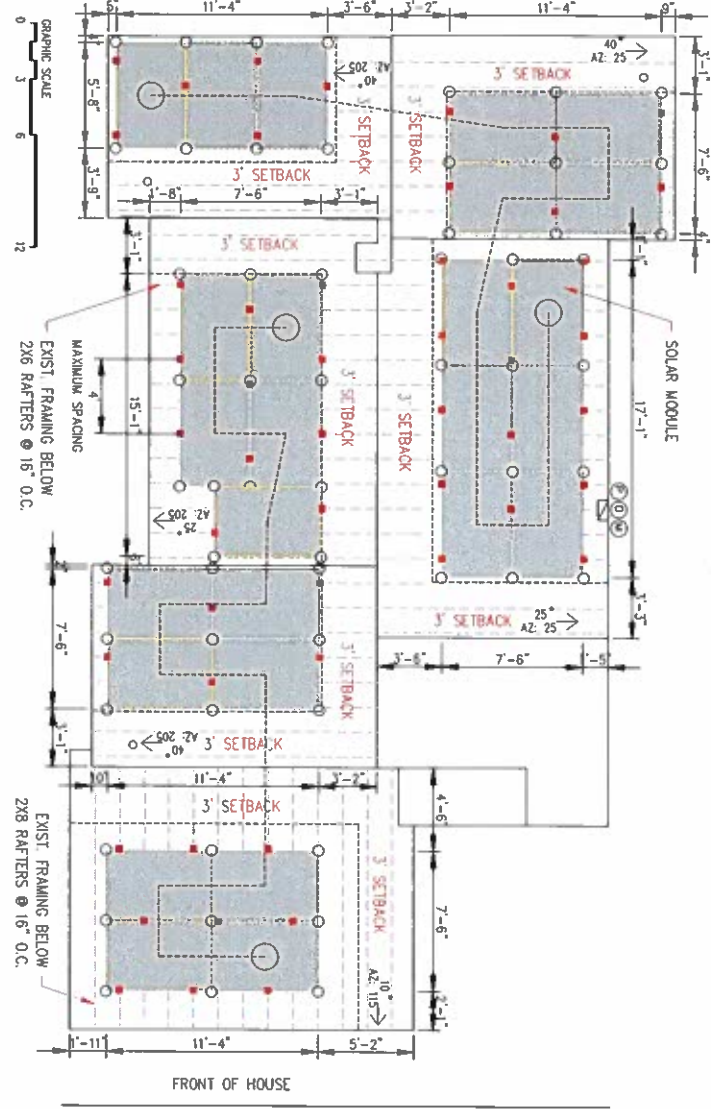
RACKING SPECS.

SYSTEM: RUSH-HOUR SYSTEM
 MATERIALS: ALUMINUM WITH STAINLESS HARDWARE FLASHING
 VALIDATION: ICC-ES AC208/UL441
 RAIN TEST FOR ROOF FLASHING
 GROUNDING/BONDING
 CERTIFICATION: UL2703 CERTIFIED
 - SEE INSTALLATION MODULES FOR OPTICAL MODULES
 APPROVALS ORIENTATION:
 LANDSCAPE AND PORTRAIT TILT
 RANGE: FLUSH TO ROOF AND UP/DOWNHILL, UNLIMITED SIDE TO SIDE WARRANTY, 15 YEARS
 ATTACHMENT: ATTACH TO RAFTER WITH LAG SCREW FIRE RESISTANCE
 VALIDATION: UL2703/1703
 CERTIFIED, CLASS A, TYPE 1 AND 2 MODULES



LEGEND

- ☑ INTERIOR MAIN SERVICE PANEL, 2 MODULES
- Ⓟ ENPHASE IQ COMBINER PANEL
- Ⓞ AC DISCONNECT
- Ⓞ ELECTRIC METER LOCATION
- Ⓞ SOLAR PANEL RACKING PENETRATION
- Ⓞ SOLAR PANEL COUPLING
- Ⓞ PV STRING



A-2

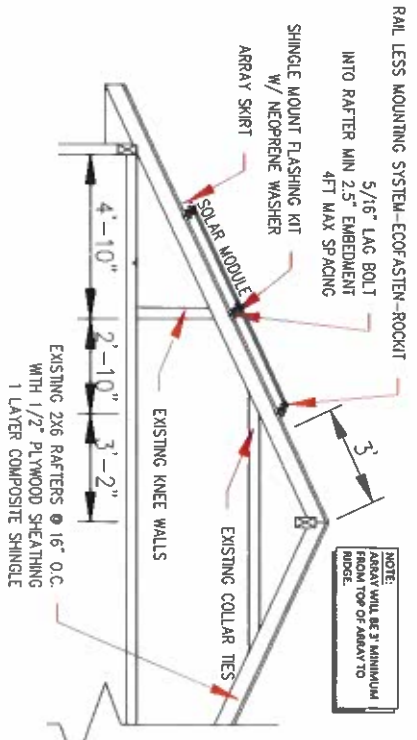
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DRAWING TITLE:	ROOF PLAN NOTES & DETAILS
DRAWN:	HT
CHECKED:	TWS
DATE:	12-30-22
REVISIONS:	

10.660 kW Solar System for:
Ardell Long-Temple
531 VALLEY ST FLI RR
Orange City, NJ, 07050

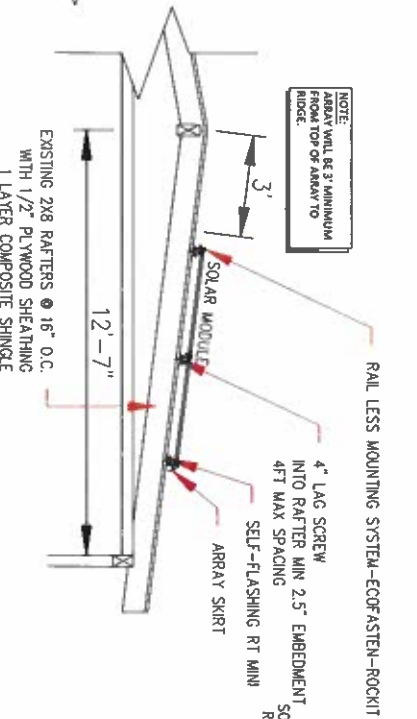
Thomas W. Gill, RA
 Thomas W. Gill, RA
 NJ Lic. # 18347

ORBIT
 Energy & Power

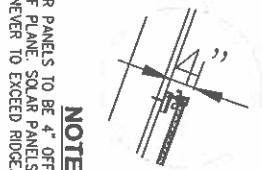
106 MANTUA BLVD.
 MANTUA, NJ 08051 PHONE: (800) 836-3987



NOTE:
ARRAY WILL BE 3' MINIMUM FROM TOP OF ARRAY TO RIDGE.



NOTE:
ARRAY WILL BE 3' MINIMUM FROM TOP OF ARRAY TO RIDGE.



NOTE
SOLAR PANELS TO BE 4\"/>

TYPICAL ROOF SECTION

SCALE: NONE
MOUNTING BRACKET SPACING MAY VARY FROM 16\"/>

FRAMING ANALYSIS

THE STRUCTURE FOR THE BUILDING HAS BEEN EVALUATED FOR THE ADDITIONAL LOAD OF SOLAR PANELS TO BE PLACED IN SERVICE AND FOUND TO BE ACCEPTABLE. ROOF SECTIONS 1, 2, 3, 4, 5 WERE FOUND TO BE CONSTRUCTED OF 2X6 RAFTERS @ 16\"/>

- LOAD TABULATION: FOR RESIDENCE ROOF SECTION 1
ROOF FRAMING: 2X6 RAFTERS @ 16\"/>
- LOAD TABULATION: FOR RESIDENCE ROOF SECTION 2
ROOF FRAMING: 2X6 RAFTERS @ 16\"/>
- LOAD TABULATION: FOR RESIDENCE ROOF SECTION 3
ROOF FRAMING: 2X6 RAFTERS @ 16\"/>
- LOAD TABULATION: FOR RESIDENCE ROOF SECTION 4
ROOF FRAMING: 2X6 RAFTERS @ 16\"/>

Technical Racking Spec. ECOFASTEN-ROCKIT	
Materials	Racking components: Aluminum, stainless hardware, dark bronze anodized upper surfaces, mill finish lower surfaces Flashings: Aluminum, black powder coated finish
Grounding/Bonding Validation	UL2703 - see installation manual for specific module approvals
Fire Resistance Validation	UL2703 - Class A, Type 1 and Type 2 modules
Mechanical Load Validation	UL2703 - see installation manual for specific module approvals
Flashing Validation	ICC-ES AC208/UL1441 Rain Test for Roof Flashing
Adjustability	1\"/>
Warranty	15 years

10.660 kW Solar System for:
Ardell Long-Temple
531 VALLEY ST FL1 RR
Orange City, NJ, 07050

SCALE: AS NOTED
 DRAWN: HT
 CHECKED: TWG
 DATE: 12-30-22
 REVISIONS:

DRAWING TITLE:
STRUCTURAL INFORMATION

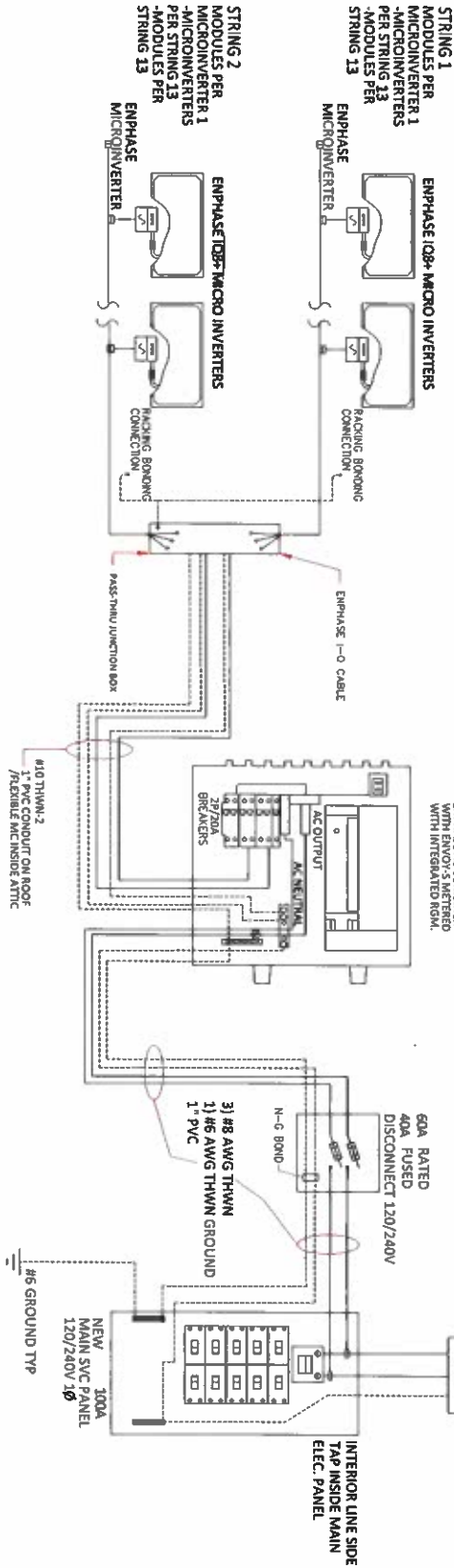
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A-3

ORBIT
 Energy & Power

105 MANTUA BLVD.
 MANTUA, NJ 08051
 PHONE: (800) 836-3987

Thomas W. Gills, RA
 NJ Lic. # 18347

SE-2827-93-410W-108 PAIRED WITH



ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL VERIFY INTERCONNECTION REQUIREMENTS WITH ELECTRICAL UTILITY FOR CONNECTION LOCATION AND STANDARDS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE EXPANSION JOINTS AND ANCHORING OF ALL CONDUIT RUNS AS PER NEC REQUIREMENTS.
- REPLACE EXISTING UTILITY METER WITH NET METER AS REQUIRED BY ELECTRIC UTILITY PROVIDER.
- LABEL ALL DC DISCONNECTS AT SERVICE AND PROVIDE WARNING LABELS ON ALL SYSTEM DISCONNECTS AND COMBINER BOXES AS REQUIRED PER NEC.
- PROVIDE LABEL AT EXISTING UTILITY CONNECTION WITH "WARNING - CUSTOMER OWNED ELECTRICAL GENERATING EQUIPMENT CONNECTED WITH APPROPRIATE HAZARD AND OUTPUT RATINGS OF PV SYSTEM.
- CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE ENTRANCE BEFORE CONNECTING INVERTER AND ENSURE PROPER OPERATIONAL RANGE REQUIRED BY SYSTEM INVERTER.
- INTERCONNECTION TO UTILITY AND SYSTEM GROUNDING PER NEC 2017 ARTICLE 690
- INTERCONNECTION TO UTILITY AND SYSTEM GROUNDING PER NEC 2017 ARTICLE 690
- ALL DC GROUNDING CONDUCTORS PER NEC ARTICLE 690 (D)(2) CONNECTED AS PER 250.66(C)(1)
- ALL INVERTERS AND MODULES ARE LOCATED ON ROOF MOUNTED RACKING SYSTEM.
- EQUIPMENT SHALL BE NEW AND UL LISTED AND SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION REQUIREMENTS.
- COOPER CONDUCTORS SHALL BE USED AND SHALL BE SIZE NOT TO EXCEED THE TEMPERATURE RATING OF THEIR INSULATION OR THE EQUIVALENT TO WHICH THEY ARE CONNECTED.
- THE EMPHASE MICRO INVERTER REMODEL IQ7 DO NOT REQUIRE A GROUNDING ELECTRODE CONDUCTOR "GEC" OR EQUIPMENT GROUNDING CONDUCTORS "GEC" THE MICRO INVERTER HAS A CLASS II DOUBLE INSULATED RATING WHICH INCLUDES GROUND FAULT PROTECTION "GFP"

WIRE AMPACITY	NEC TABLE 310.15(B)(16)
#10 THWN Cu 55A RATED	55A
#8 THWN Cu 50A RATED	50A
#6 THWN Cu 65A RATED	65A
#4 THWN Cu 100A RATED	100A
#2 THWN Cu 130A RATED	130A

CONTRACTOR TO VERIFY	POI
<input type="checkbox"/> SQUARE D - BR	LINE SIDE TAP ON SERVICE FEEDERS
<input type="checkbox"/> SQUARE D - 00	(1) GROUND ROD: 5/8" X 8' COPPER
<input type="checkbox"/> SERMENS	(2) ISOUL JIC 4/0 - 66 INSULATION PIERCING
<input type="checkbox"/> CHALLENGER	MAIN 4/0-4 TPA 6-14
<input type="checkbox"/> CUTLER HAMMER	
<input type="checkbox"/> OTHER	

CONDUCTOR AMPACITY. CIRCUIT CONDUCTORS SHALL BE SIZED TO MEET THE REQUIREMENTS OF NEC ARTICLE 690.8(B) (25 x 12V x 125) = 39.33 amp

10.660 kW Solar System for:
Ardell Long-Temple
531 VALLEY ST FL1 RR
Orange City, NJ, 07050

Thomas W. Gill, RA
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ORBIT
 Energy & Power

106 MANTUA BLVD
 MANTUA, NJ 08051

PHONE: (800) 836-3987

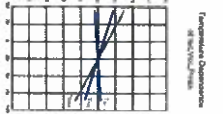
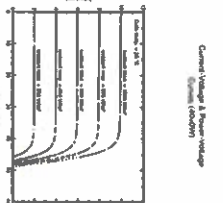
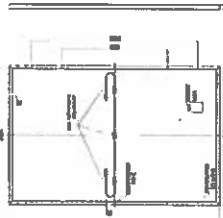
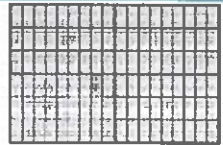
DRAWING NO. **A-4**

DRAWING TITLE: **ELECTRICAL INFORMATION**

SCALE:	AS NOTED
DRAWN:	HT
CHECKED:	TMC
DATE:	12-30-22
REVISIONS:	

ENGINEERING DRAWINGS

ENGINEERING DRAWINGS



PACKAGING CONFIGURATION

(Two pallets = One stack)

Parameter	Value
Case Type	Aluminum PSPEC 1800mm
Max Weight	166 lbs (75.3 kg)
Dimensions	1730(L) x 1240(W) x 67 (H) mm (68.1" x 48.8" x 2.6")
Weight	21.5 kg (47.3 lbs)
Front Clamps	149g (3.3oz), 14.5mm (0.57")
Over Clamps	449g (9.9oz), 12.5mm (0.49")
Junction Box	960 Pallet

MECHANICAL CHARACTERISTICS

SPECIFICATIONS

Parameter	SC-102791-400W-108		SC-102791-400W-108		SC-102791-410W-108	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	400W	300W	400W	300W	410W	300W
Maximum Power Current (Imax)	7.5A	6.0A	7.5A	6.0A	7.5A	6.0A
Maximum Power Voltage (Vmpp)	53.0V	50.0V	53.0V	50.0V	53.0V	50.0V
Open-Circuit Voltage (Voc)	60.0V	58.0V	60.0V	58.0V	60.0V	58.0V
Short-Circuit Current (Isc)	13.7A	11.2A	13.7A	11.2A	13.7A	11.2A
Maximum Efficiency (%)	20.4%	20.4%	20.4%	20.4%	20.4%	20.4%
Operating Temperature (Tc)	-40°C to +85°C					
Maximum System Voltage	1500VDC (IEC)					
Maximum System Power Rating	20A					
Power Tolerance	0 ~ +3%					
Temperature Coefficient of Power	-0.55%/°C					
Temperature Coefficient of Voc	0.045%/°C					
Temperature Coefficient of Isc	0.045%/°C					
Minimum Operating Cell Temperature (Tcell)	-40°C					

- STC: Irradiance 1000W/m², Cell Temperature 25°C
- NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

CONTACT US: Become the best solar company for the world +1 (908) 308 3075 contact@orbitenergy.com

IQ8 and IQ8+ Microinverters

Parameter	IQ8	IQ8+
Case Type	Aluminum PSPEC 1800mm	Aluminum PSPEC 1800mm
Max Weight	166 lbs (75.3 kg)	166 lbs (75.3 kg)
Dimensions	1730(L) x 1240(W) x 67 (H) mm (68.1" x 48.8" x 2.6")	1730(L) x 1240(W) x 67 (H) mm (68.1" x 48.8" x 2.6")
Weight	21.5 kg (47.3 lbs)	21.5 kg (47.3 lbs)
Front Clamps	149g (3.3oz), 14.5mm (0.57")	149g (3.3oz), 14.5mm (0.57")
Over Clamps	449g (9.9oz), 12.5mm (0.49")	449g (9.9oz), 12.5mm (0.49")
Junction Box	960 Pallet	960 Pallet
Case Type	Aluminum PSPEC 1800mm	Aluminum PSPEC 1800mm
Max Weight	166 lbs (75.3 kg)	166 lbs (75.3 kg)
Dimensions	1730(L) x 1240(W) x 67 (H) mm (68.1" x 48.8" x 2.6")	1730(L) x 1240(W) x 67 (H) mm (68.1" x 48.8" x 2.6")
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Over Clamps	449g (9.9oz), 12.5mm (0.49")
Junction Box	960 Pallet

Conformance: The product is in full compliance with the following standards: IEC 61215, IEC 61730, IEC 62109-1, IEC 62109-2, IEC 62109-3, IEC 62109-4, IEC 62109-5, IEC 62109-6, IEC 62109-7, IEC 62109-8, IEC 62109-9, IEC 62109-10, IEC 62109-11, IEC 62109-12, IEC 62109-13, IEC 62109-14, IEC 62109-15, IEC 62109-16, IEC 62109-17, IEC 62109-18, IEC 62109-19, IEC 62109-20, IEC 62109-21, IEC 62109-22, IEC 62109-23, IEC 62109-24, IEC 62109-25, IEC 62109-26, IEC 62109-27, IEC 62109-28, IEC 62109-29, IEC 62109-30, IEC 62109-31, IEC 62109-32, IEC 62109-33, IEC 62109-34, IEC 62109-35, IEC 62109-36, IEC 62109-37, IEC 62109-38, IEC 62109-39, IEC 62109-40, IEC 62109-41, IEC 62109-42, IEC 62109-43, IEC 62109-44, IEC 62109-45, IEC 62109-46, IEC 62109-47, IEC 62109-48, IEC 62109-49, IEC 62109-50, IEC 62109-51, IEC 62109-52, IEC 62109-53, IEC 62109-54, IEC 62109-55, IEC 62109-56, IEC 62109-57, IEC 62109-58, IEC 62109-59, IEC 62109-60, IEC 62109-61, IEC 62109-62, IEC 62109-63, IEC 62109-64, IEC 62109-65, IEC 62109-66, IEC 62109-67, IEC 62109-68, IEC 62109-69, IEC 62109-70, IEC 62109-71, IEC 62109-72, IEC 62109-73, IEC 62109-74, IEC 62109-75, IEC 62109-76, IEC 62109-77, IEC 62109-78, IEC 62109-79, IEC 62109-80, IEC 62109-81, IEC 62109-82, IEC 62109-83, IEC 62109-84, IEC 62109-85, IEC 62109-86, IEC 62109-87, IEC 62109-88, IEC 62109-89, IEC 62109-90, IEC 62109-91, IEC 62109-92, IEC 62109-93, IEC 62109-94, IEC 62109-95, IEC 62109-96, IEC 62109-97, IEC 62109-98, IEC 62109-99, IEC 62109-100.

ORBIT Energy & Power

106 MANTUA BLVD, MANTUA, NJ 08051 | PHONE: (800) 836-3987

Thomas W. Gills, RA | NJ Lic. # 18347

10.660 kW Solar System for:
Ardell Long-Temple
531 VALLEY ST FL1 RR
Orange City, NJ, 07050

DRAWING TITLE:
SOLAR PANEL & INVERTER SPECS

DRAWING NO:
A-5

SCALE: AS NOTED

CHECKED: JMG

DATE: 12-30-22

REVISIONS:

Enphase Q Cable Accessories

CONDUCTOR SPECIFICATIONS

Certification	UL 3003 (raw cable), UL 9703 (cable assemblies), DG cable
Flame test rating	FT4
Conformance	RoHS, OIL RES I, CE, UV Resistant, combined UL for Canada and United States
Conductor type	THHN/THWN-2 any/wet
Disconnection means	The AC and DC ballpoint cutters have been evaluated and approved by UL for use as the load-break disconnect required by NEC 980.

Q CABLE TYPES / ORDERING OPTIONS

Conductorized Models	Size / Max Nominal Voltage	Connector Spacing	PV Module Orientation	Connector Count per Box
Q-12-16-240	12 AWG / 277 VAC	1.5 m (4.2 ft)	Portrait	240
Q-12-17-240	12 AWG / 277 VAC	2.0 m (6.5 ft)	Landscape (50-call)	240
Q-12-20-200	12 AWG / 277 VAC	2.3 m (7.5 ft)	Landscape (72-call)	200

ENPHASE Q CABLE ACCESSORIES

Name	Model Number	Description
Raw Q Cable	Q-12-24W-300	300 meters of 12 AWG cable with no connectors
Field-wireable connector (male)	Q-COHN-10M	Male connectors from any open connector
Field-wireable connector (female)	Q-COHN-10F	Male connectors from any Q Cable open connector
Cable Clip	Q-CLIP-100	Used to fasten cabling to the racking or to secure looped cabling
Disconnected tool	Q-DISC-10	Disconnected tool for Q Cable connectors, DC connectors, and AC module mount
Q Cable sealing caps (female)	Q-SEAL-10	One needed to cover each unused connector on the cabling
Terminator	Q-TERM-10	Terminator cap for unused cable ends
Enphase EMI to MCA adaptor ¹	ECA-EM4-S22	Connect PV module using MCA connectors to 10 meters with EMI (TE PV4-S SOLARCON), 150mmx5.8" to MCA.
Enphase EMI non-terminated adaptor ¹	ECA-EM4-FW	For field wiring of UL qualified DC connectors, EMI (TE PV4-S SOLARCON) to non-terminated cable, 150mmx5.8"
Enphase EMI to MCA adaptor (long) ¹	ECA-EM4-S22-L	Longer adapter cable for EMI (TE PV4-S SOLARCON) to MCA. Use with split cell modules or PV modules with split DC cable, 800mmx23.9"
Replacement DC Adaptor (MCA)	Q-BCC-2	DC adaptor to MCA (max voltage 100 VDC)
Replacement DC Adaptor (UTX)	Q-DCC-6	DC adaptor to UTX (max voltage 100 VDC)

¹ Qualified per UL subject 9703.

 <p>TERMINATOR Terminator cap for unused cable ends, sold in packs of ten (Q-TERM-10)</p>	 <p>SEALING CAPS Sealing caps for unused aggregator and cable connectors (Q-BK-CAP-10 and Q-SEAL-10)</p>
 <p>DISCONNECT TOOL Pliers to use at least one pair installation, sold in packs of ten (Q-DISC-10)</p>	 <p>CABLE CLIP Used to fasten cabling to the racking or to secure looped cabling, sold in packs of one hundred (Q-CLIP-100)</p>

To learn more about Enphase offerings, visit enphase.com
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ORBIT Energy & Power

106 MANTUA BLVD.
MANTUA, NJ 08051

PHONE: (800) 836-3987

Thomas W. Gillis, RA.
NJ Lic. # 18347

10.660 kW Solar System for:
Ardell Long-Temple
531 VALLEY ST FL1 RR
Orange City, NJ, 07050

SCALE:	AS NOTED
DRAWN:	HT
CHECKED:	TWG
DATE:	12-30-22
REVISIONS:	
DRAWING TITLE:	ENPHASE Q CABLE SPECS

DRAWING NO. **A-6**

⚠ WARNING

THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM

⚠ WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

PHOTOVOLTAIC SYSTEM

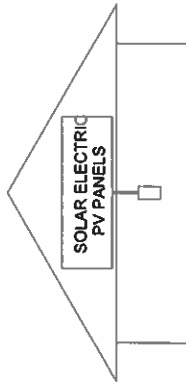
⚠ AC DISCONNECT ⚠

RATED AC OUTPUT CURRENT A
NOMINAL OPERATING AC VOLTAGE V

⚠ WARNING

PHOTOVOLTAIC POWER SOURCE

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN



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

⚠ WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.

EMERGENCY RESPONDERS:
THIS SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUT DOWN

PV DISCONNECT LOCATED TO ADJACENT TO METER

PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN ENTIRE PV SYSTEM

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION. ONLY CONDUCTORS INSIDE BUILDING OR OFF THE ROOF WILL SHUT DOWN



105 MANTUA BLVD. PHOENIX, AZ 85015
PHONE: (800) 836-3987

Thomas W. Ellis, RA
NJ Lic. # 18347

10.660 kW Solar System for:
Ardell Long-Temple
531 VALLEY ST F11 RR
Orange City, NJ, 07050

SCALE: AS NOTED
DRAWN: HT
CHECKED: TWS
DATE: 12-30-22
REVISIONS:

DRAWING TITLE:
LABELS

DRAWING NO.

A-7







Trisha Scipio

From: Trisha Scipio
Sent: Friday, December 30, 2022 10:31 AM
To: ORBITPERMITS@ORBITENERGY.US
Subject: Historic Preservation Commission Application

Good Morning Brook Wilson,

We just received an application for Historic Preservation Commission Certification of Appropriateness for 531 Valley Street 3, Orange, NJ. The application is incomplete as it does not have items listed below. Please e-mail the following

1. Second question on page two of the application is not answered
2. A roof layout plan for the solar/PV panels and equipment, showing the front of the house or building on which the panels will be installed, and the location of the street.
3. At least three color photographs from the front of the house, and both sides, as described above, in Section I. A., taken from the street level and showing the roof areas on which the solar panels will be placed, so that the Commission can see whether the panels to be attached to the roof according to the roof layout plan will be visible from the street.
4. A written certification signed by a professional engineer (P.E.) or architect certifying to the fact that the structure and roof of the building that is the subject of the Application on which the solar/PV panels and related equipment will be installed, is capable of bearing the load of the panels and related equipment without any additional support or renovation, and that the installation will comply with the applicable building codes, if properly installed according to instructions.

Trisha Scipio



City of Orange Township
Office of the City Clerk
29 North Day Street | Fourth Floor
Orange, New Jersey 07050
Telephone 973.968.6005
Facsimile 973.674.6643
tscipio@orangenj.gov

Trisha Scipio

From: Trisha Scipio
Sent: Tuesday, January 10, 2023 12:02 PM
To: 'longtemple@gmail.com'
Subject: FW: Historic Preservation Commission Application

Trisha Scipio



City of Orange Township
Office of the City Clerk
29 North Day Street | Fourth Floor
Orange, New Jersey 07050
Telephone 973.968.6005
Facsimile 973.674.6643
tscipio@orangenj.gov

From: Trisha Scipio
Sent: Friday, December 30, 2022 10:31 AM
To: ORBITPERMITS@ORBITENERGY.US
Subject: Historic Preservation Commission Application

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Trisha Scipio



City of Orange Township
Office of the City Clerk
29 North Day Street | Fourth Floor
Orange, New Jersey 07050
Telephone 973.968.6005
Facsimile 973.674.6643
tscipio@orangenj.gov



ORBIT ENERGY & POWER, LLC
 "Your Whole-Home Solutions Provider for Life!"
 570 Mantua Blvd, Sewell, NJ 08080
 1-800-836-3987
 www.OrbitEnergy.US

Fulton Bank

60-142/313

2110

PAY TO THE ORDER OF

City Of Orange

12/22/2022

\$ **70.00

Seventy and 00/100*****

DOLLARS

City Of Orange

AUTHORIZED SIGNATURE

MEMO

historic review fee - 531 valley st 3 orange nj 07050

⑈002110⑈ ⑆031301422⑆ 0091018889⑈

OFFICE OF THE MUNICIPAL CLERK
 THE CITY OF ORANGE TOWNSHIP
 CITY HALL
 ORANGE, NEW JERSEY 07050

4984

DATE 12/30/22

RECEIVED FROM *Orbit Energy + Power*

\$ 70.00

DOLLARS

FOR *Seventy dollars*
~~500~~ *531 Valley St*

THIS IS YOUR RECEIPT

DATE

12/30/22

AMOUNT

\$70

RECEIVED FROM

Historic Preservation Commission

chk no# 2110

Rec no# 4984

531 Valley Street

Account 1113

Treasurer's Miscellaneous Receipt
City of Orange Township, New Jersey

2110

ORBIT ENERGY & POWER, LLC

"Your Whole-Home Solutions Provider for Life!"
570 Mantua Blvd, Sewell, NJ 08080
1-800-836-3987
www.OrbitEnergy.US



Fulton Bank

60-142/313

PAY TO THE
ORDER OF

City Of Orange

12/22/2022

\$ **70.00

DOLLARS

Seventy and 00/100*****

City Of Orange

MEMO

AUTHORIZED SIGNATURE

historic review fee - 531_valley_st_3_orange.nj_07050

⑈002110⑈ ⑆031301422⑆ 0091018889⑈

Security features. Details on back.



The City of Orange Township Historic Preservation Commission

INSTRUCTIONS AND REQUIRED ATTACHMENTS FOR ALL APPLICATIONS

If your Application is not deemed complete, it will not be heard and your project will suffer delay. In order for your Application for a Certificate of Appropriateness to be deemed complete, you must provide the following documents with your Application:

- A. Photographs of the existing condition of each elevation (façade) of the structure, front, sides and rear, including photographs of the structure from the nearest public street or sidewalk, approaching the structure and leaving the structure. This means a minimum of three color photographs of the front, and both sides of the house or building. This is essential to understanding what work, installations, improvements etc. will be visible from the Public Street or right-of-way. An aerial shot by a drone of the structure is insufficient to satisfy this requirement.
- B. A site plan or other plan or drawing incorporating the location, type, design and details of the work to be undertaken. The plan must show the location of the street and front of the house or building that is the subject of the Application. Façade elevation(s), if applicable, of the proposed work shall have sufficient detail to identify the limits and location of the proposed work.
- C. Samples, specifications and product information on the materials (shingles, windows, paint, brick, wood siding, etc. that you intend to install) to assist the Commission in understanding the work to be undertaken and the products that will be placed on your property. No vinyl or aluminum siding is allowed on any history property, site or in any historic district. Photographs of examples of property/architectural features elsewhere in the historic district that are sought to be duplicated on your property may be submitted as examples. The Applicant should describe or show the existing and proposed materials to be used in some way. It is always preferred to use the same materials as the original structure.
- D. If applicable, a survey, or a site plan showing the location of any new proposed and existing structures on the site and their location with respect to any existing building footprints, height, property boundary lines, fence locations if applicable, and the front of those buildings or structures immediately adjacent to each side of the property(ies) on which the work will be undertaken, to help the Commission determine the design, scale and massing in context of the historic site, property, or neighborhood district.

ADDITIONAL INSTRUCTIONS AND REQUIRED ATTACHMENTS FOR SOLAR/PV APPLICATIONS

- A. As part of the plan set for the solar installation, **a roof layout plan for the solar/PV panels and equipment, showing the front of the house or building on which the panels will be installed, and the location of the street.**
- B. At least three color photographs from the front of the house, and both sides, as described above, in Section I. A., taken from the street level and showing the roof areas on which the solar panels will be placed, so that the Commission can see whether the panels to be attached to the roof according to the roof layout plan will be visible from the street.
- C. A written certification signed by a professional engineer (P.E.) or architect certifying to the fact that the structure and roof of the building that is the subject of the Application on which the solar/PV panels and related equipment will be installed, is capable of bearing the load of the panels and related equipment without any additional support or renovation, and that the installation will comply with the applicable building codes, if properly installed according to instructions.