

- THE PHOTOVOLTAIC SYSTEM SHALL NOT EXCEED 600 VOLTS OR 800 AMPS
- EACH ELECTRICAL APPLIANCE SHALL BE PROVIDED WITH A NAMEPLATE GIVING THE IDENTIFYING NAME AND THE RATING IN VOLTS AND AMPERES. OR VOLTS AND WATTS. IF THE APPLIANCE IS TO BE USED ON A SPECIFIC FREQUENCY OR FREQUENCIES, IT SHALL BE SO MARKED. WHERE MOTOR OVERLOAD PROTECTION EXTERNAL TO THE APPLIANCES IS REQUIRED, THE APPLIANCE SHALL BE SO MARKED
- WHERE APPLICABLE, GROUNDING ELECTRODE CONDUCTOR TO BE CONTINUOUS. GROUNDING CRIMPS TO BE IRREVERSIBLE
- GROUNDED DC PHOTOVOLTAIC ARRAYS SHALL BE PROVIDED WITH DC GROUND-FAULT PROTECTION THAT MEETS THE REQUIREMENTS OF NEC SECTION 690.5. UNGROUNDED DC PHOTOVOLTAIC ARRAYS SHALL COMPLY WITH NEC SECTION 690.35
- IN ONE- AND TWO-FAMILY DWELLINGS, LIVE PARTS IN PHOTOVOLTAIC SOURCE CIRCUITS AND PHOTOVOLTAIC OUTPUT CIRCUITS OVER 150 VOLTS TO GROUND, SHALL ONLY BE ACCESSIBLE TO QUALIFIED PERSONS WHILE ENERGIZED.
- PHOTOVOLTAIC SYSTEMS SHALL BE PERMANENTLY MARKED AT VARIOUS EQUIPMENT LOCATIONS TO IDENTIFY THAT A PHOTOVOLTAIC SYSTEM IS INSTALLED AND THAT VARIOUS DANGERS ARE PRESENT.
- EACH PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A PHOTOVOLTAIC SYSTEM DISCONNECT
- WHERE ALL TERMINALS OF A DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A WARNING SIGN SHALL BE MOUNTED ON OR ADJACENT TO THE DISCONNECT
- 12. A PERMANENT LABEL FOR THE DIRECT-CURRENT PHOTOVOLTAIC POWER SOURCE SHALL BE PROVIDED BY THE INSTALLED AT THE DC DISCONNECT **MEANS**
- A PERMANENT PLAQUE OR DIRECTORY, DENOTING ALL ELECTRIC POWER SOURCES SERVING THE PREMISES, SHALL BE INSTALLED AT EACH SERVICE EQUIPMENT LOCATION AND AT LOCATIONS OF ALL POWER PRODUCTION SOURCES
- 14. A PERMANENT PLAQUE OR DIRECTORY SHALL BE PROVIDED DENOTING THE LOCATIONS OF THE SERVICE DISCONNECT MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECT MEANS IF THEY ARE NOT LOCATED AT THE SAME LOCATION.
- 15. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC SECTION 690.4 (C)

EMT ELECTRICAL METAL TUBING GALV GALVANIZED

GEC

GROUNDING ELECTRODE CONDUCTOR GND GROUND

CURRENT

CURRENT AT MAXIMUM POWER IMP Isc SHORT-CIRCUIT CURRENT KILOVOLT AMPERE ΚVΑ

KILOWATT κW MAX MAXIMUM MINIMUM MIN

MCB MAIN CIRCUIT BREAKER

MLO MAIN LUG ONLY NOM NOMINAL NTS NOT TO SCALE NOMINAL POWER PNOM

PV PHOTOVOLTAIC PVC POLYVINYL CHLORIDE SN SOLAR NOON

STC STANDARD TEST CONDITIONS TYP **TYPICAL** 

VOLT

V

W

VOLTAGE AT MAXIMUM POWER VMP Voc OPEN-CIRCUIT VOLTAGE

WATT

### SHEET INDEX

PVI.I - PROJECT INFORMATION PV2.I - SITE INFORMATION

PV3.1 - PV3.2 - STRUCTURAL INFORMATION PV4.1 - ELECTRICAL INFORMATION

PV5.I - EQUIPMENT LABELS

### SITE CONDITIONS

ASCE 7-10 WIND SPEED - 115 MPH EXPOSURE CATEGORY - B RISK CATEGORY - II

### LEGEND



DISCONNECT SWITCH



CIRCUIT BREAKER

EQUIP. GROUND

CLIENT:

P-1194

540

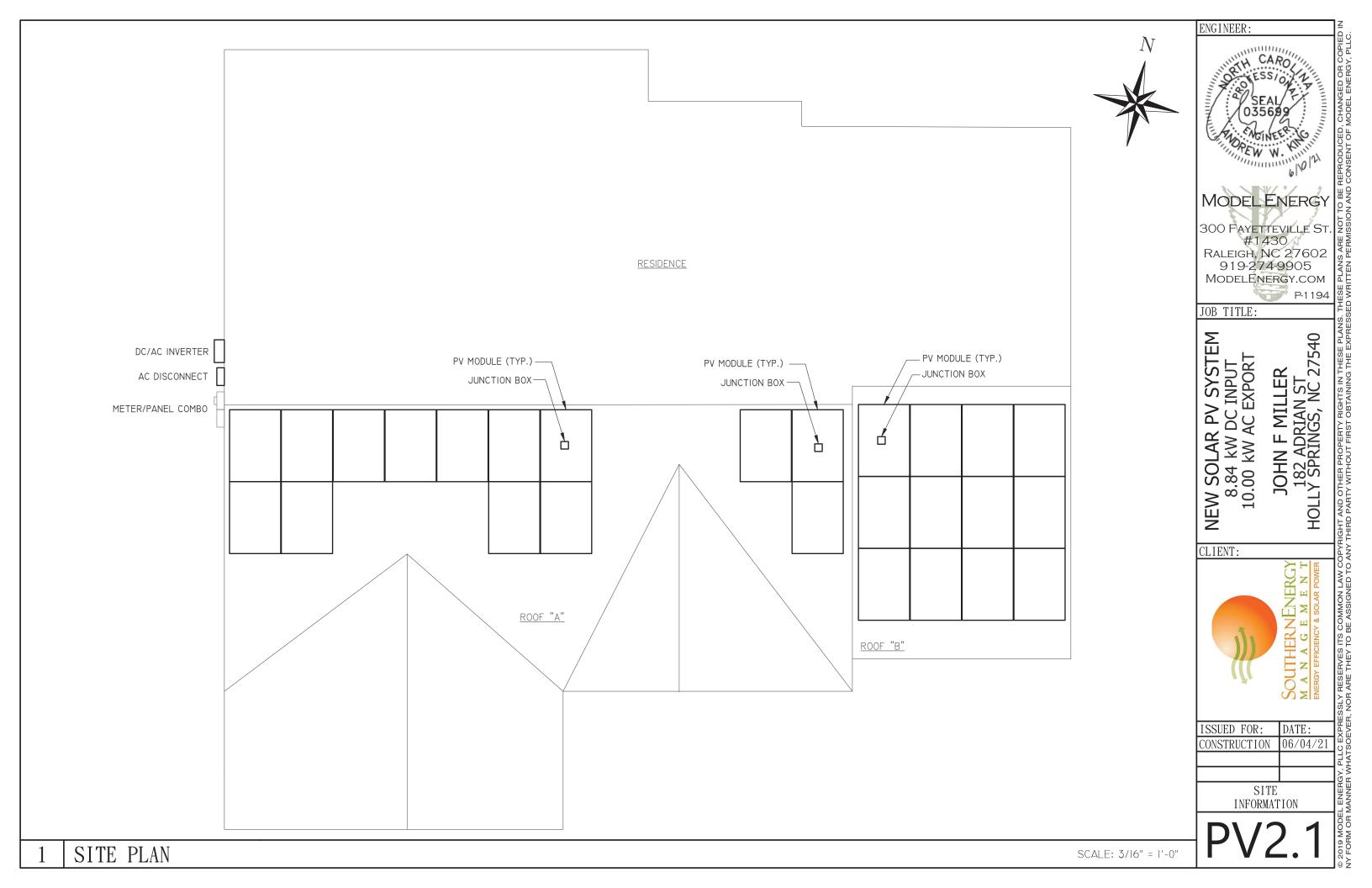
27

182 ADR HOLLY SPRINC

JOHN

ISSUED FOR: DATE: CONSTRUCTION 06/04/23

**PROJECT** INFORMATION



| ROOF MOUNT & FASTENER |              |  |
|-----------------------|--------------|--|
| ROOF MOUNT:           |              |  |
| MAKE                  | ZEP          |  |
| MODEL                 | ZS COMP      |  |
| MATERIAL              | ALUMINUM     |  |
| FASTENER              |              |  |
| MAKE                  | GENERIC      |  |
| MODEL                 | LAG BOLT     |  |
| MATERIAL              | 304 SS       |  |
| SIZE                  | 5/I6" X 5.5" |  |
| GENERAL               |              |  |
| WEIGHT                | 2 LBS        |  |
| FASTENERS PER MOUNT   | I PER MOUNT  |  |
| MAX. PULL-OUT FORCE   | 800 LBS.     |  |
| SAFETY FACTOR         | 2            |  |
| DESIGN PULL-OUT FORCE | 400 LBS.     |  |

LAG BOLT EMBEDDED WITH 2.5" OF THREAD IN WOOD RAFTER OR TRUSSES MEMBER

| ROOF LOADING      |                  |  |
|-------------------|------------------|--|
| GROUND SNOW LOAD: | I5 LBS./SQFT.    |  |
| LIVE LOAD:        | 20 LBS./SQFT.    |  |
| DEAD LOAD:        |                  |  |
| ROOFING           | 3.9 LBS./SQFT.   |  |
| PV ARRAY          | 2.4 LBS./SQFT.   |  |
| TOTAL             | 6.3 LBS./SQFT.   |  |
| WIND LOAD:        |                  |  |
| UPLIFT ZONE I     | -24.6 LBS./SQFT. |  |
| UPLIFT ZONE 2     | -29.0 LBS./SQFT. |  |
| UPLIFT ZONE 3     | -29.0 LBS./SQFT. |  |
| DOWNWARD          | 23.0 LBS./SQFT.  |  |
| FASTENER LOAD:    |                  |  |
| UPLIFT ZONE I     | -342 LBS.        |  |
| UPLIFT ZONE 2     | -269 LBS.        |  |
| UPLIFT ZONE 3     | -134 LBS.        |  |
| DOWNWARD          | 320 LBS.         |  |
| DOWNWARD          | JZU LBS.         |  |

| ARRAY SUMMARY |           |  |
|---------------|-----------|--|
| # MODULES     | 14        |  |
| # ROOF MOUNTS | 36        |  |
| RAIL LENGTH   | N/A       |  |
| ARRAY AREA    | 270 SQFT. |  |
| ARRAY WEIGHT  | 651 LBS.  |  |
| AZIMUTH @ SN  | 168°      |  |
| TILT ANGLE    | 34°       |  |

| ROOF SUMMARY |                  |  |
|--------------|------------------|--|
| STRUCTURE:   |                  |  |
| TYPE         | RAFTERS          |  |
| MATERIAL     | SOUTHERN PINE #2 |  |
| SIZE         | 2" X 8"          |  |
| SPACING      | l6" o.c.         |  |
| EFF. SPAN    | 9'-0"            |  |
| PITCH        | 8 / 12           |  |
| DENSITY      | 30 LBS./CU.FT.   |  |
| DECKING:     |                  |  |
| TYPE         | OSB              |  |
| MATERIAL     | WOOD COMPOSITE   |  |
| THICKNESS    | 7/16"            |  |
| WEIGHT       | I.6 LBS./SQFT.   |  |
| ROOFING:     |                  |  |
| TYPE         | ARCH SHINGLE     |  |
| MATERIAL     | ASPHALT          |  |
| WEIGHT       | 2.3 LBS./SQFT.   |  |

| PV MODULES |                       |  |
|------------|-----------------------|--|
| MAKE       | Q CELL                |  |
| MODEL      | Q.PEAK DUO BLK-G6 340 |  |
| WIDTH      | 40.6"                 |  |
| LENGTH     | 68.5"                 |  |
| THICKNESS  | 1.26"                 |  |
| WEIGHT     | 43.9 LBS              |  |

### STATEMENT OF STRUCTURAL COMPLIANCE

THE EXISTING ROOF STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE ADDITIONAL LOADS OF THE PROPOSED PV SYSTEM. IN ADDITION, THE RACKING AND FASTENING SYSTEM SHALL BE CAPABLE OF SECURING THE SYSTEM TO THE STRUCTURE UNDER DESIGN CONDITIONS WHEN INSTALLED PROPERLY AND IN ACCORDANCE WITH THE RACKING AND FASTENING ARRANGEMENT DETAILED WITHIN THESE DRAWINGS.

ANDREW W. KING, PE

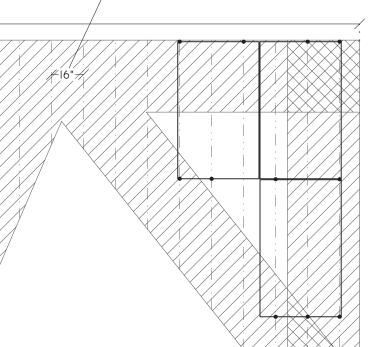
PROFESSIONAL ENGINEER

ROOF ZONES:

ALL ZONES MAX. RAIL OVERHANG = 12"

MAX. FASTENER SPAN ZONE I = 48" ☐ ZONE I MAX. FASTENER SPAN ZONE 2 = 32"

ROOF RAFTER (TYP.) 16" O.C.



ENGINEER:

MODEL ENERGY

300 FAYETTEVILLE ST. #1,430 RALEIGH, NC 27602 919-274-9905

MODELENERGY.COM

JOB TITLE:

**NEW SOLAR PV SYSTEM** 8.84 kW DC INPUT 10.00 kW AC EXPORT JOHN F MILLER

182 ADRIAN ST HOLLY SPRINGS, NC 27540

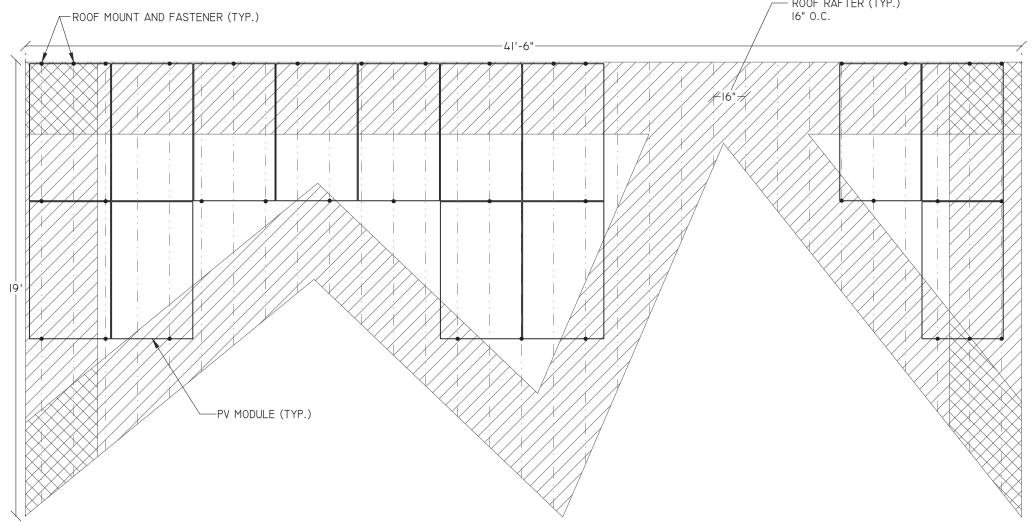
P-1194

CLIENT:



DATE: ISSUED FOR: 06/04/21 CONSTRUCTION

> STRUCTURAL INFORMATION



| ROOF MOUNT & FASTENER |  |  |
|-----------------------|--|--|
|                       |  |  |
| ZEP                   |  |  |
| ZS COMP               |  |  |
| ALUMINUM              |  |  |
|                       |  |  |
| GENERIC               |  |  |
| LAG BOLT              |  |  |
| 304 SS                |  |  |
| 5/I6" X 5.5"          |  |  |
|                       |  |  |
| 2 LBS                 |  |  |
| I PER MOUNT           |  |  |
| 800 LBS.              |  |  |
| 2                     |  |  |
| 400 LBS.              |  |  |
|                       |  |  |

 LAG BOLT EMBEDDED WITH 2.5" OF THREAD IN WOOD RAFTER OR TRUSSES MEMBER

| ROOF LOADING                    |                  |
|---------------------------------|------------------|
| GROUND SNOW LOAD: 15 LBS./SQFT. |                  |
| LIVE LOAD:                      | 20 LBS./SQFT.    |
| DEAD LOAD:                      |                  |
| ROOFING                         | 3.9 LBS./SQFT.   |
| PV ARRAY                        | 2.4 LBS./SQFT.   |
| TOTAL                           | 6.3 LBS./SQFT.   |
| WIND LOAD:                      |                  |
| UPLIFT ZONE I                   | -24.6 LBS./SQFT. |
| UPLIFT ZONE 2                   | -29.0 LBS./SQFT. |
| UPLIFT ZONE 3                   | -29.0 LBS./SQFT. |
| DOWNWARD                        | 23.0 LBS./SQFT.  |
| FASTENER LOAD:                  |                  |
| UPLIFT ZONE I                   | -281 LBS.        |
| UPLIFT ZONE 2                   | -331 LBS.        |
| UPLIFT ZONE 3                   | -166 LBS.        |
| DOWNWARD                        | 263 LBS.         |

| ARRAY SUMMARY |           |  |
|---------------|-----------|--|
| # MODULES     | 12        |  |
| # ROOF MOUNTS | 29        |  |
| RAIL LENGTH   | N/A       |  |
| ARRAY AREA    | 232 SQFT. |  |
| ARRAY WEIGHT  | 556 LBS.  |  |
| AZIMUTH @ SN  | 168°      |  |
| TILT ANGLE    | 34°       |  |

|           | PV MODULES            |  |  |
|-----------|-----------------------|--|--|
| MAKE      | Q CELL                |  |  |
| MODEL     | Q.PEAK DUO BLK-G6 340 |  |  |
| WIDTH     | 40.6"                 |  |  |
| LENGTH    | 68.5"                 |  |  |
| THICKNESS | 1.26"                 |  |  |
| WEIGHT    | 43.9 LBS              |  |  |

| ROOF SUMMARY |                  |  |
|--------------|------------------|--|
| STRUCTURE:   |                  |  |
| TYPE         | RAFTERS          |  |
| MATERIAL     | SOUTHERN PINE #2 |  |
| SIZE         | 2" X 8"          |  |
| SPACING      | 16" o.c.         |  |
| EFF. SPAN    | 9'-0"            |  |
| PITCH        | 8 / 12           |  |
| DENSITY      | 30 LBS./CU.FT.   |  |
| DECKING:     |                  |  |
| TYPE         | OSB              |  |
| MATERIAL     | WOOD COMPOSITE   |  |
| THICKNESS    | 7/16"            |  |
| WEIGHT       | I.6 LBS./SQFT.   |  |
| ROOFING:     |                  |  |
| TYPE         | ARCH SHINGLE     |  |
| MATERIAL     | ASPHALT          |  |
| WEIGHT       | 2.3 LBS./SQFT.   |  |

### STATEMENT OF STRUCTURAL COMPLIANCE

THE EXISTING ROOF STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE ADDITIONAL LOADS OF THE PROPOSED PV SYSTEM. IN ADDITION, THE RACKING AND FASTENING SYSTEM SHALL BE CAPABLE OF SECURING THE SYSTEM TO THE STRUCTURE UNDER DESIGN CONDITIONS WHEN INSTALLED PROPERLY AND IN ACCORDANCE WITH THE RACKING AND FASTENING ARRANGEMENT DETAILED WITHIN THESE DRAWINGS.

SIGNED: Chair

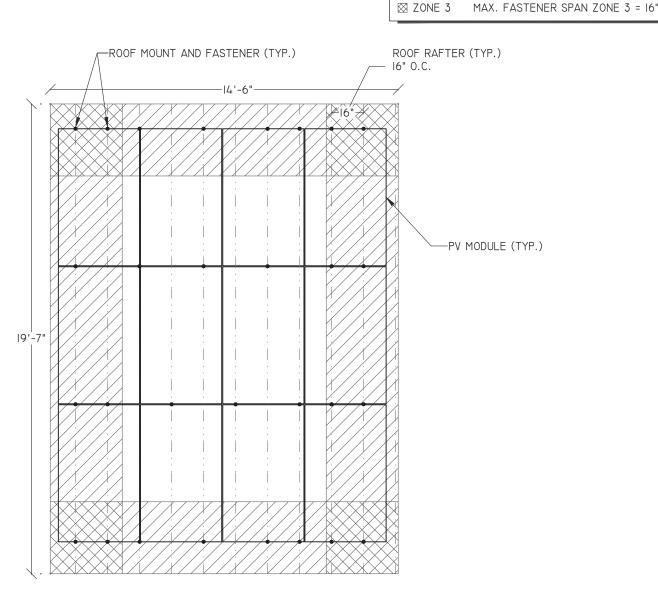
ANDREW W. KING, PE

TITLE: PROFESSIONAL ENGINEER

### ROOF ZONES:

ALL ZONES MAX. RAIL OVERHANG = 12"

☐ ZONE I MAX. FASTENER SPAN ZONE I = 32" ☐ ZONE 2 MAX. FASTENER SPAN ZONE 2 = 32"



MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905

MODELENERGY.COM

ENGINEER:

JOB TITLE:

NEW SOLAR PV SYSTEM 8.84 kW DC INPUT 10.00 kW AC EXPORT

JOHN F MILLER 182 ADRIAN ST HOLLY SPRINGS, NC 27540

P-1194

CLIENT:



ISSUED FOR: DATE:
CONSTRUCTION 06/04/21

STRUCTURAL INFORMATION

PV3.2

| PV MODULES        |                       |
|-------------------|-----------------------|
| MAKE              | Q CELL                |
| MODEL             | Q.PEAK DUO BLK-G6 340 |
| TECHNOLOGY        | MONO-CRYST.           |
| NOM. POWER (PNOM) | 340 WATTS             |
| NOM. VOLT. (VMP)  | 33.94 VOLTS           |
| O.C. VOLT. (Voc)  | 40.66 VOLTS           |
| MAX. SYS. VOLT.   | 1000 V (UL)           |
| TEMP. COEF. (VTc) | -0.27 %/°C            |
| NOM. CURR. (IMP)  | 10.02 AMPS            |
| S.C. CURR. (Isc)  | 10.52 AMPS            |
| MAX. SERIES FUSE  | 20 AMPS               |

| MODULE OPTIMIZER            |               |  |
|-----------------------------|---------------|--|
| MAKE                        | SOLAREDGE     |  |
| MODEL                       | P370          |  |
| DC INPUT:                   |               |  |
| RATED POWER                 | 370 WATTS     |  |
| VOLT. RANGE                 | 8-60          |  |
| MAX. SCC                    | II.0 AMPS     |  |
| MAX. DC INPUT CURRENT       | 13.75 AMPS    |  |
| DC OUTPUT:                  |               |  |
| MAX. CURRENT                | I5 AMPS       |  |
| MAX. VOLT.                  | 60 VOLTS      |  |
| MAX. SYSTEM VOLT.           | 1000 VOLTS    |  |
| MIN. STRING                 | 8 OPTIMIZERS  |  |
| MAX. STRING                 | 25 OPTIMIZERS |  |
| MAX. POWER                  |               |  |
| INVERTERS: SE3000H-SE6000H  | 5700 WATTS    |  |
| INVERTERS: SE7600H-SEII400H | 6000 WATTS    |  |
|                             |               |  |

| DC/AC .         | INVERTER    |
|-----------------|-------------|
| MAKE            | SOLAREDGE   |
| MODEL           | SEI0000H-US |
| TECHNOLOGY      | TRANS-LESS  |
| DC INPUT:       |             |
| MAX. POWER      | 15500 WATTS |
| MAX. VOLT       | 480 VOLTS   |
| NOM. VOLT.      | 400 VOLTS   |
| MAX. CURRENT    | 27 AMPS     |
| MAX. SCC        | 45 AMPS     |
| STRINGS INPUTS  | 3 STRINGS   |
| AC OUTPUT:      |             |
| RATED POWER     | 10000 WATTS |
| MAX. POWER      | 10000 WATTS |
| NOM. VOLT.      | 240 VOLTS   |
| MAX. CURR.      | 42 AMPS     |
| GFP (Y/N)       | YES         |
| RPP (Y/N)       | YES         |
| GFCI (Y/N)      | YES         |
| AFCI (Y/N)      | YES         |
| DC DISC. (Y/N)  | YES         |
| RAPID SHUTDOWN  |             |
| FUSE RATING     | I5 AMPS     |
| PROTECT. RATING | NEMA 4X     |
|                 |             |

| CONDUCTOR SCHEDULE |                             |        |          |                      |      |        |                 |            |      |      |            |          |       |
|--------------------|-----------------------------|--------|----------|----------------------|------|--------|-----------------|------------|------|------|------------|----------|-------|
| TAG                | CURRENT CARRYING CONDUCTORS |        |          | GROUNDING CONDUCTORS |      |        | CONDUIT/RACEWAY |            |      |      | NOTES      |          |       |
| IAG                | QTY.                        | SIZE   | MATERIAL | INSULATION           | QTY. | SIZE   | MATERIAL        | INSULATION | QTY. | SIZE | MATERIAL   | LOCATION | NOTES |
| CI                 | 2                           | 10 AWG | COPPER   | PV WIRE              | I    | 6 AWG  | COPPER          | BARE       | -    | -    | -          | FREE AIR | ı     |
| C2.I               | 2                           | 10 AWG | COPPER   | THWN-2               | I    | 10 AWG | COPPER          | THWN-2     |      | 1/2" | FMC/EMT/MC | EXT/INT  | 2,4   |
| C2.2               | 4                           | 10 AWG | COPPER   | THWN-2               | I    | 10 AWG | COPPER          | THWN-2     |      | 1/2" | FMC/EMT/MC | EXT/INT  | 2,4   |
| С3                 | 3                           | 6 AWG  | COPPER   | THWN                 | I    | 10 AWG | COPPER          | THWN       |      | 3/4" | NOTE 5     | EXTERIOR | 2,4,5 |
| XC                 | -                           | -      | -        | -                    | -    | -      | -               | -          | -    | -    | -          | -        | 3     |

#### NOTES:

- MANUFACTURER PROVIDED, UL LISTED WIRING HARNESS FOR USE ON EXPOSED ROOFS
- CONDUIT SIZE SHOWN IS CODE MINIMUM. LARGER SIZES ARE ALLOWED
- EXISTING CONDUCTORS, FIELD VERIFY
- EQUIPMENT TERMINAL RATING SHALL BE A MINIMUM OF 75°C AT BOTH END OF CONDUCTOR
- PVC, EMT, ROMEX, LFNMC & FMC ARE ACCEPTABLE WHEN USED IN ACCORDANCE WITH ARTICLES 330, 334, 348, 350, 352, 356, & 358

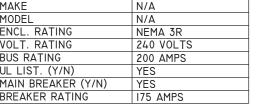
| JUNCTION BOX |           |  |  |  |  |
|--------------|-----------|--|--|--|--|
| MAKE         | SOLADECK  |  |  |  |  |
| MODEL        | 0783-3R   |  |  |  |  |
| PRO. RATING  | NEMA 3R   |  |  |  |  |
| VOLT. RATING | 600 VOLTS |  |  |  |  |
| AMP RATING   | 120 AMPS  |  |  |  |  |
| UL LISTING   | UL 50     |  |  |  |  |

| AC DISCONNECT  |           |  |  |  |
|----------------|-----------|--|--|--|
| MAKE           | GENERIC   |  |  |  |
| MODEL          | N/A       |  |  |  |
| ENCL. RATING   | NEMA 3R   |  |  |  |
| VOLT. RATING   | 240 VOLTS |  |  |  |
| AMP RATING     | 60 AMPS   |  |  |  |
| UL LIST. (Y/N) | YES       |  |  |  |
| FUSED (Y/N)    | NO        |  |  |  |
| FUSE RATING    | N/A       |  |  |  |

### NOTES:

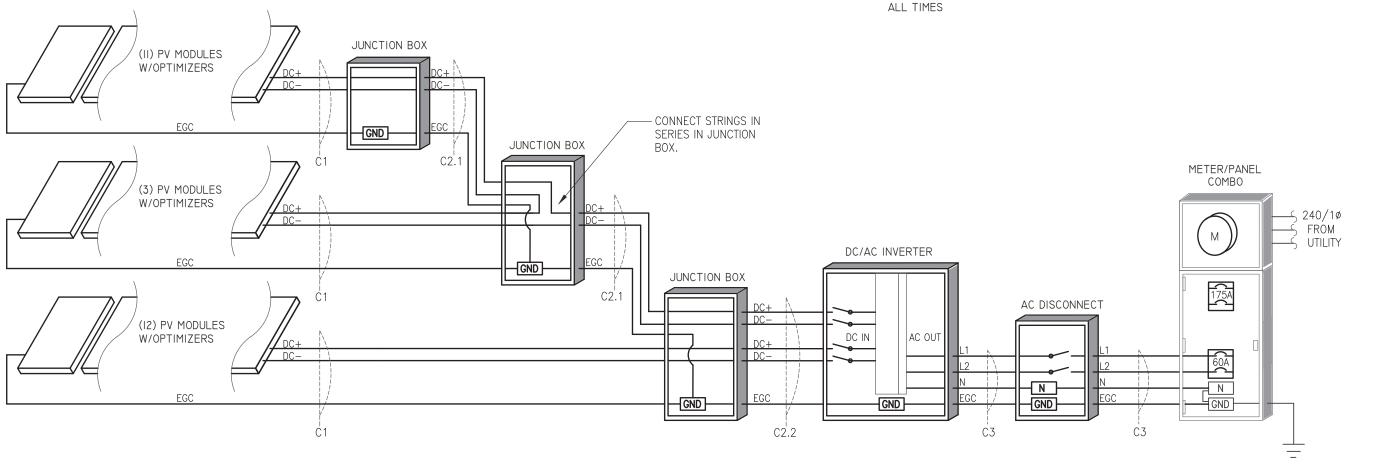
- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN POSITION
- INSTALL ADJACENT TO METER
- DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT

| METER/PANEL COMBO (EXISTING) |           |  |  |  |
|------------------------------|-----------|--|--|--|
| MAKE                         | N/A       |  |  |  |
| MODEL                        | N/A       |  |  |  |
| ENCL. RATING                 | NEMA 3R   |  |  |  |
| VOLT. RATING                 | 240 VOLTS |  |  |  |
| BUS RATING                   | 200 AMPS  |  |  |  |
| UL LIST. (Y/N)               | YES       |  |  |  |
| MAIN BREAKER (Y/N)           | YES       |  |  |  |
| BREAKER RATING               | I75 AMPS  |  |  |  |





- BACK-FEED SOLAR OUTPUT VIA 60 AMP BREAKER AT THE OPPOSITE END OF THE BUS BAR FROM MAIN BREAKER.
- MAIN BREAKER SERVES AS SERVICE DISCONNECT SWITCH.
- DERATE MAIN BREAKER TO 175 AMPS.



CLIENT: SOUTHERNENERGY M A N A G E M E N T DATE:

06/04/21

ENGINEER:

MODEL ENERGY

300 FAYETTEVILLE ST #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM

JOB TITLE:

NEW SOLAR PV SYSTEM 8.84 kW DC INPUT 10.00 kW AC EXPORT

P-1194

182 ADRIAN ST HOLLY SPRINGS, NC 27540

JOHN F MILLER

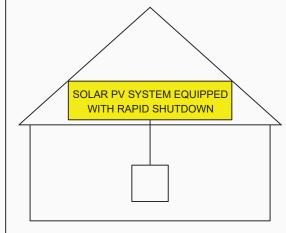
ELECTRICAL INFORMATION

ISSUED FOR:

CONSTRUCTION

# 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



NEC 690.56 (C)(1)(a)

PLACE WITHIN 3FT OF SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATIONS OF RAPID SHUTDOWN SWITCHES

# WARNING: PHOTOVOLTAIC POWER SOURCE

NEC 690.31 (G)(3)&(4)

PLACE ON ALL JUNCTION BOXES, EXPOSED RACEWAYS, AND OTHER WIRING METHODS EVERY 10' AND ON EVERY SECTION SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.

# RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

NEC 690.56 (C)(3)

PLACE ON RAPID SHUTDOWN SWITCH OR EQUIPMENT WITH INTEGRATED RAPID SHUTDOWN \*REFLECTIVE\*

# PV SYSTEM DISCONNECT

NEC 690.13 (B)
PLACE ON PV SYSTEM DISCONNECTING MEANS.

### WARNING

**DUAL POWER SUPPLY** 

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

NEC 705.12 (B)(3)
PLACE ON ALL EQUIPMENT THAT IS SUPPLIED
BY BOTH POWER SOURCES

### EQUIPMENT LABEL NOTES

- LABELS SHOWN ARE THEIR ACTUAL REQUIRED SIZE.
- 2. LABEL MATERIAL SHALL BE SUITABLE FOR THE EQUIPMENT ENVIRONMENT.
- 3. CONDUIT SHALL BE MARKED WITH REQUIRED LABEL EVERY 10 FEET.

### WARNING

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

NEC 690.13 (B)
PLACE ON PV SYSTEM DISCONNECTING MEANS.

## WARNING

POWER SOURCE
OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

NEC 705.12 (B)(2)(3)(b)
PLACE ADJACENT TO BACK-FED BREAKER

DIRECT CURRENT
PHOTOVOLTAIC POWER SOURCE

MAXIMUM VOLTAGE 600 VDC

MAX CIR. CURRENT 30.0 AMPS

NEC 690.53 PLACE ON ALL DC DISCONNECTING MEANS

PHOTOVOLTAIC POWER SOURCE

OPERATING AC VOLT. 240 VAC

MAXIMUM OPERATING 42.0 AMPS

NEC 690.54
PLACE ON INTERCONNECTION
DISCONNECTING MEANS

CARO
SEAL
O35699
MODEL ENERGY
MODEL ENERGY

300 FAYETTEVILLE ST.

#1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM P-1194

JOB TITLE

NEW SOLAR PV SYSTEM 8.84 kW DC INPUT 10.00 kW AC EXPORT JOHN F MILLER 182 ADRIAN ST

CLIENT:

SOUTHERNENERGY M A N A G E M E N 1

ISSUED FOR: DATE:
CONSTRUCTION 06/04/21

EQUIPMENT
LABELS

PV5.1