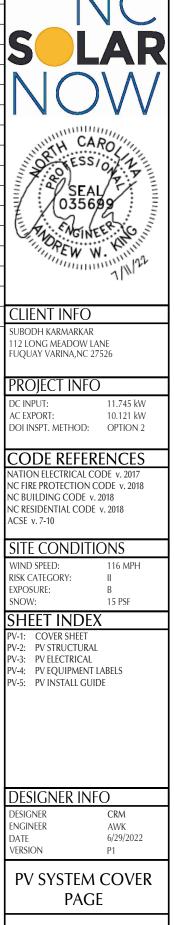
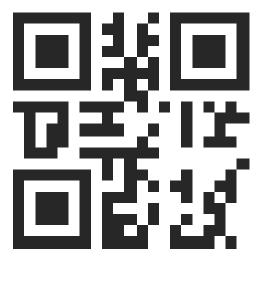


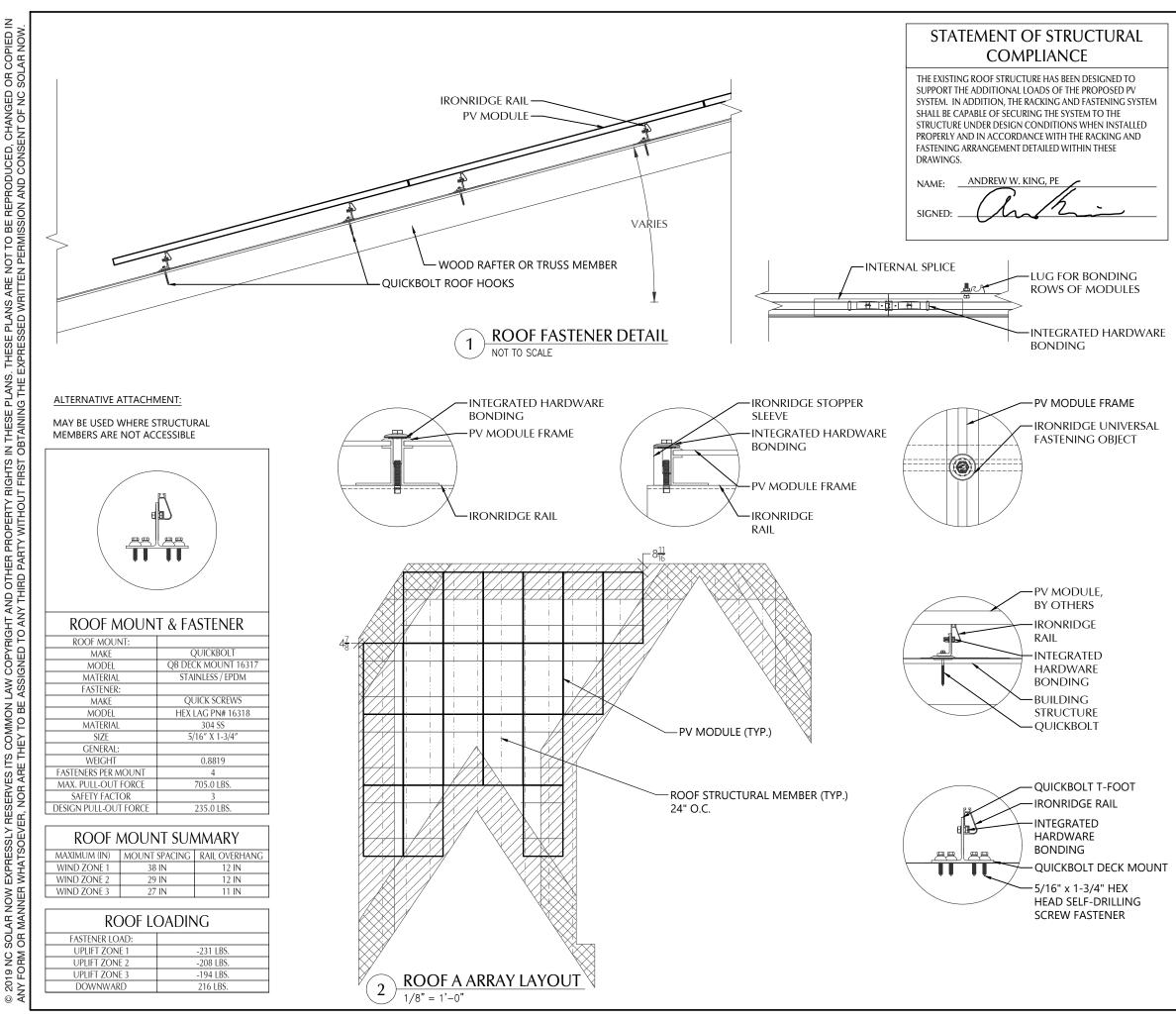
| RIAL SUMMARY: DISTRIBUTOR | |
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PV-1.1







PV MODULES

| MAKE | REC |
|--------------|---------------|
| MODEL | REC405AA PURE |
| WIDTH | 40.00 IN |
| LENGTH | 71.70 IN |
| THICKNESS | 30 MM |
| WEIGHT | 45.00 LBS. |
| ARRAY AREA | 398 SQFT. |
| ARRAY WEIGHT | 996 LBS. |

ROOF SUMMARY

| STRUCTURE: | |
|----------------|------------------|
| TYPE | TRUSSES |
| MATERIAL | SOUTHERN PINE #2 |
| SIZE | 2 X 4 |
| SPACING | 24 IN O.C. |
| ALLOWABLE SPAN | 88 IN |
| PITCH | 6/12 |
| DENSITY | 30 LBS./CU.FT. |
| DECKING: | |
| TYPE | OSB |
| MATERIAL | COMPOSITE |
| THICKNESS | 7/16 IN |
| WEIGHT | 1.60 LBS/SQFT |
| ROOFING: | |
| TYPE | ASPHALT SHINGLE |
| MATERIAL | ASPHALT |
| WEIGHT | 2.30 LBS./SQFT. |
| | |

ROOF MOUNT SUMMARY

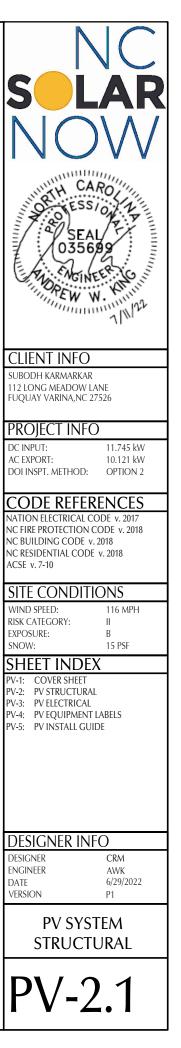
| MAXIMUM (IN) | MOUNT SPACING | RAIL OVERHANG |
|--------------|---------------|---------------|
| WIND ZONE 1 | 72 IN | 19 IN |
| WIND ZONE 2 | 48 IN | 19 IN |
| WIND ZONE 3 | 48 IN | 19 IN |

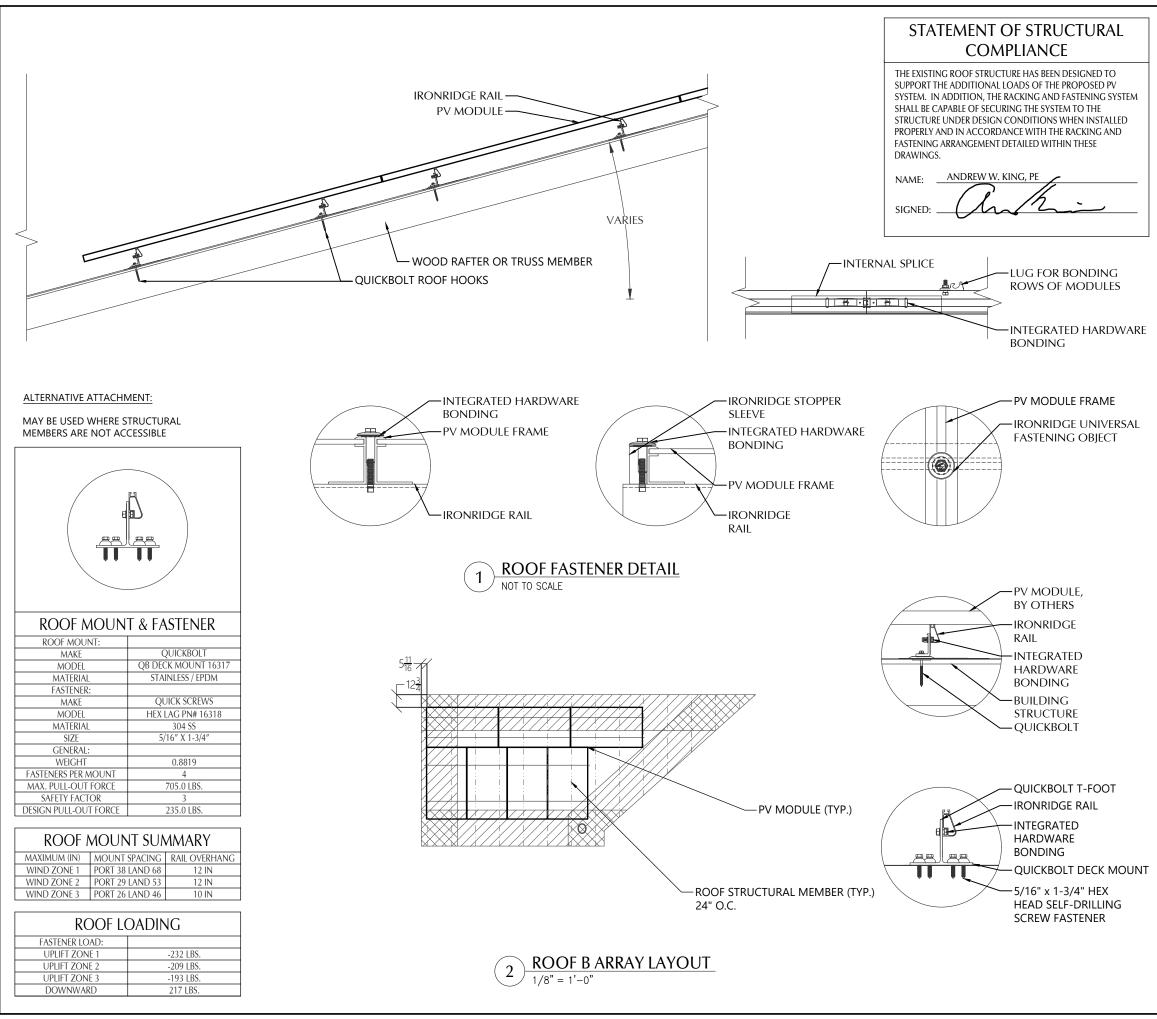
| ROOF LOADING | | |
|-------------------|------------------|--|
| GROUND SNOW LOAD: | 15 LBS./SQFT. | |
| LIVE LOAD | 20 LBS./SQFT. | |
| DEAD LOAD | | |
| ROOFING | 3.9 LBS/SQFT. | |
| PV ARRAY | 2.5 LBS./SQFT. | |
| TOTAL | 6.4 LBS./SQFT. | |
| WIND LOAD: | | |
| UPLIFT ZONE 1 | -24.6 LBS./SQFT. | |
| UPLIFT ZONE 2 | -29.0 LBS./SQFT. | |
| UPLIFT ZONE 3 | -29.0 LBS./SQFT. | |
| DOWNWARD | 23.0 LBS./SQFT. | |
| FASTENER LOAD: | | |
| UPLIFT ZONE 1 | -438 LBS. | |
| UPLIFT ZONE 2 | -344 LBS. | |
| UPLIFT ZONE 3 | -344 LBS. | |
| DOWNWARD | 409 LBS. | |

| ROOF MOUNT: MAKE QUICKBOLT MODEL 4 IN QB1 MATERIAL STAINLESS / EPDM FASTENER: MAKE MAKE QUICK SCREWS MODEL HANGER BOLT MATERIAL 304 SS SIZE 5/16-18 X 5-1/4" | |
|--|--|
| MODEL 4 IN QB1 MATERIAL STAINLESS / EPDM FASTENER: MAKE QUICK SCREWS MODEL HANGER BOLT MATERIAL 304 SS | |
| MATERIAL STAINLESS / EPDM FASTENER: MAKE QUICK SCREWS MODEL HANGER BOLT MATERIAL 304 SS | |
| FASTENER: MAKE QUICK SCREWS MODEL HANGER BOLT MATERIAL 304 SS | |
| MAKE QUICK SCREWS MODEL HANGER BOLT MATERIAL 304 SS | |
| MODEL HANGER BOLT MATERIAL 304 SS | |
| MATERIAL 304 SS | |
| | |
| SIZE 5/16-18 X 5-1/4" | |
| | |
| GENERAL: | |
| WEIGHT 0.56 LBS. | |
| FASTENERS PER MOUNT 1 | |
| MAX. PULL-OUT FORCE 960.0 LBS. | |
| SAFETY FACTOR 2 | |
| DESIGN PULL-OUT FORCE 480.0 LBS. | |

MOUNTING RAILS

| MAKE | IRONRIDGE |
|----------|--------------|
| MODEL | XR10 |
| MATERIAL | ALUMINUM |
| WEIGHT | 0.425 LBS/IN |
| SPACING | 36 IN |
| | |





PV MODULES

| MAKE | REC |
|--------------|---------------|
| MODEL | REC405AA PURE |
| WIDTH | 40.00 IN |
| LENGTH | 71.70 IN |
| THICKNESS | 30 MM |
| WEIGHT | 45.00 LBS. |
| ARRAY AREA | 139 SQFT. |
| ARRAY WEIGHT | 349 LBS. |

ROOF SUMMARY

| TRUSSES |
|------------------|
| SOUTHERN PINE #2 |
| 2 X 4 |
| 24 IN O.C. |
| 88 IN |
| 8/12 |
| 30 LBS./CU.FT. |
| |
| OSB |
| COMPOSITE |
| 7/16 IN |
| 1.60 LBS/SQFT |
| |
| ASPHALT SHINGLE |
| ASPHALT |
| 2.30 LBS./SQFT. |
| |

ROOF MOUNT SUMMARY

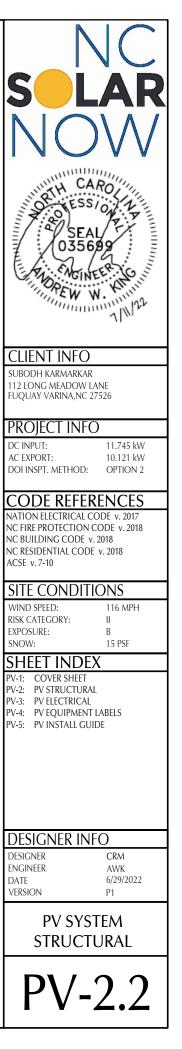
| MAXIMUM (IN) | MOUNT SPACING | RAIL OVERHANG |
|--------------|-----------------|---------------|
| WIND ZONE 1 | PORT 72 LAND 72 | 19 IN |
| WIND ZONE 2 | PORT 48 LAND 48 | 19 IN |
| WIND ZONE 3 | PORT 48 LAND 48 | 19 IN |

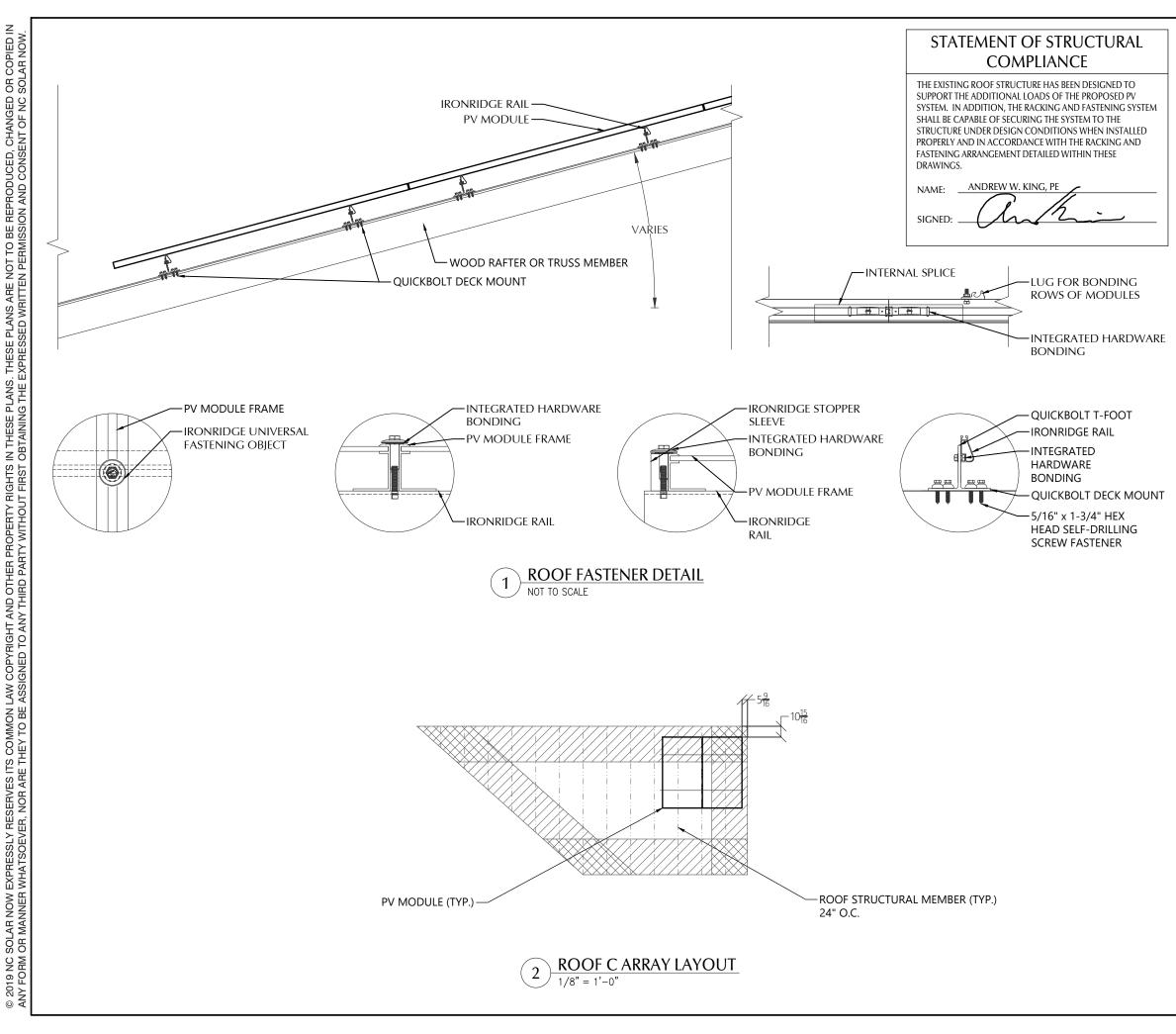
| ROOF LOADING | | |
|-------------------|------------------|--|
| GROUND SNOW LOAD: | 15 LBS./SQFT. | |
| LIVE LOAD | 20 LBS./SQFT. | |
| DEAD LOAD | | |
| ROOFING | 3.9 LBS/SQFT. | |
| PV ARRAY | 2.5 LBS./SQFT. | |
| TOTAL | 6.4 LBS./SQFT. | |
| WIND LOAD: | | |
| UPLIFT ZONE 1 | -24.6 LBS./SQFT. | |
| UPLIFT ZONE 2 | -29.0 LBS./SQFT. | |
| UPLIFT ZONE 3 | -29.0 LBS./SQFT. | |
| DOWNWARD | 23.0 LBS./SQFT. | |
| FASTENER LOAD: | | |
| UPLIFT ZONE 1 | -328 LBS. | |
| UPLIFT ZONE 2 | -257 LBS | |
| UPLIFT ZONE 3 | -257 LBS | |
| DOWNWARD | 306 LBS | |

| QUICKBOLT |
|------------------|
| QUICKBOLT |
| |
| 4 IN QB1 |
| STAINLESS / EPDM |
| |
| QUICK SCREWS |
| HANGER BOLT |
| 304 SS |
| 5/16-18 X 5-1/4" |
| |
| 0.56 LBS. |
| 1 |
| 960.0 LBS. |
| 2 |
| 480.0 LBS. |
| |

MOUNTING RAILS

| MAKE | IRONRIDGE |
|----------|--------------|
| MODEL | XR10 |
| MATERIAL | ALUMINUM |
| WEIGHT | 0.425 LBS/IN |
| SPACING | 36 IN |
| | |





PV MODULES

| MAKE | REC |
|--------------|---------------|
| MODEL | REC405AA PURE |
| WIDTH | 40.00 IN |
| LENGTH | 71.70 IN |
| THICKNESS | 30 MM |
| WEIGHT | 45.00 LBS. |
| ARRAY AREA | 40 SQFT. |
| ARRAY WEIGHT | 100 LBS. |

ROOF SUMMARY

| STRUCTURE: | |
|----------------|------------------|
| TYPE | TRUSSES |
| MATERIAL | SOUTHERN PINE #2 |
| SIZE | 2 X 4 |
| SPACING | 24 IN O.C. |
| ALLOWABLE SPAN | 88 IN |
| PITCH | 8/12 |
| DENSITY | 30 LBS./CU.FT. |
| DECKING: | |
| TYPE | OSB |
| MATERIAL | COMPOSITE |
| THICKNESS | 7/16 IN |
| WEIGHT | 1.60 LBS/SQFT |
| ROOFING: | |
| TYPE | ASPHALT SHINGLE |
| MATERIAL | ASPHALT |
| WEIGHT | 2.30 LBS./SQFT. |

ROOF MOUNT SUMMARY

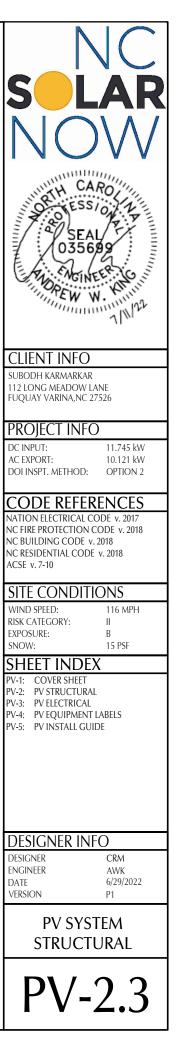
| MAXIMUM (IN) | MOUNT SPACING | RAIL OVERHANG |
|--------------|---------------|---------------|
| WIND ZONE 1 | 38 IN | 15 IN |
| WIND ZONE 2 | 29 IN | 12 IN |
| WIND ZONE 3 | 27 IN | 11 IN |

| ROOF LOADING | | | | |
|-------------------|------------------|--|--|--|
| GROUND SNOW LOAD: | 15 LBS./SQFT. | | | |
| LIVE LOAD | 20 LBS./SQFT. | | | |
| DEAD LOAD | | | | |
| ROOFING | 3.9 LBS/SQFT. | | | |
| PV ARRAY | 2.5 LBS./SQFT. | | | |
| TOTAL | 6.4 LBS./SQFT. | | | |
| WIND LOAD: | | | | |
| UPLIFT ZONE 1 | -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 1 | -232 LBS. | | | |
| UPLIFT ZONE 2 | -208 LBS | | | |
| UPLIFT ZONE 3 | -194 LBS | | | |
| DOWNWARD | 217 LBS | | | |

| ROOF MOUN | t & FASTENER |
|-----------------------|---------------------|
| ROOF MOUNT: | |
| MAKE | QUICKBOLT |
| MODEL | QB DECK MOUNT 16317 |
| MATERIAL | STAINLESS / EPDM |
| FASTENER: | |
| MAKE | QUICK SCREWS |
| MODEL | HEX LAG PN# 16318 |
| MATERIAL | 304 SS |
| SIZE | 5/16" X 1-3/4" |
| GENERAL: | |
| WEIGHT | 0.88 LBS. |
| FASTENERS PER MOUNT | 4 |
| MAX. PULL-OUT FORCE | 705.0 LBS. |
| SAFETY FACTOR | 3 |
| DESIGN PULL-OUT FORCE | 235.0 LBS. |

MOUNTING RAILS

| MAKE | IRONRIDGE |
|----------|--------------|
| MODEL | XR10 |
| MATERIAL | ALUMINUM |
| WEIGHT | 0.425 LBS/IN |
| SPACING | 36 IN |
| | |



| | CONDUCT | | | | OR SCHE | CHEDULE | | | | | PV MODULE | | |
|----------|--------------|------------------|---|------------|---------------|--------------------|---------------------------|-----------|----------------------|------------|---------------------------------------|----------------------------|--|
| TAG | | CURRENT CARRYING | | | GROUNDING CO | | | | /RACEWAY | NOTES | MAKE | REC | |
| C1 | QTY. 6 | SIZE 10 AWG | INSULATION DG CABLE | QTY. | SIZE 6 AWG | INSULATION BARE | QTY. | SIZE | LOCATION FREE AIR | 1 | MODEL NOM. POWER (PNOM) | REC405AA PURE 405 WATTS | |
| C1 C2 | 6 | 10 AWG | THWN | 1 | 10 AWG | THWN | 1 | 3/4" | EXT/INT | 2,4 | NOM. VOLT. (VMPP) | 42.4 VOLTS | |
| C3 | 3 | 6 AWG | THWN | 1 | 10 AWG | THWN | 1 | 3/4" | EXTERIOR | 2,4 | O.C. VOLT (VOC) | 48.9 VOLTS | |
| XC | - | - | - | - | - | - | - | - | - | 3 | MAX. SYS. VOLT. NOM. CURR. (IMPP) | 1000 VOLTS 9.6 AMPS | |
| | | | | | | | | | | | S.C. CURR. (ISC) | 9.6 AMPS 10.3 AMPS | |
| NOTES | 5: | | | | | | | | | | TEMP. COEF. (PMPP) | -0.26 %/C | |
| | _ | | | | | | | | | | TEMP. COEF. (Voc) | -0.24 %/C | |
| | | | JL LISTED WIRING HA DE MINIMUM. LARGEI | | | SED ROOFS | | | | | MAX SERIES FUSE UL COMPLIANT (Y/N) | 25 AMPS YES | |
| | | ONDUCTORS, FIELD | | | ALLOWED. | | | | | | | TL5 | |
| | | | G SHALL BE A MINIM | UM OF 75°0 | C AT BOTH END | OF CONDUCTOR | | | | | | | |
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| | | . | 11 PV MO W/MICROINV | | | | | | | | | | |
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PV COMBINER PANEL MAKE ENPHASE X-IQ-AM1-240-4 MODEL INPUT: MAX BRANCH CIRCUITS 4 TOTAL BRANCH CIRCUIT OCPD 50 AMPS OUTPUT: 15600 WATTS MAX POWER NOM. VOLTAGE 240 VOLTS **BUS RATING** 125 AMPS

NO

YES

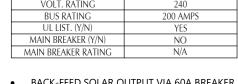
NEMA TYPE 3R

| JUNCTI | on box | | | |
|-----------------|---------------|--|--|--|
| MAKE | SOLADECK | | | |
| PROTECT. RATING | NEMA TYPE 3R | | | |
| UL LIST. (Y/N) | YES | | | |
| | | | | |
| METER COM | | | | |
| | BO (EXISTING) | | | |
| MAKE | SQUARE D | | | |
| | . , | | | |
| MAKE | SQUARE D | | | |

MAIN BREAKER Y/N

ENCL. RATING

UL LIST. (Y/N)



 BACK-FEED SOLAR OUTPUT VIA 60A BREAKER AT THE OPPOSITE END OF THE BUS BAR FROM EXISTING POWER SOURCE EACH BREAKER SERVES AS SERVICE ٠

METER COMBO

M

60A

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DISCONNECT SWITCH

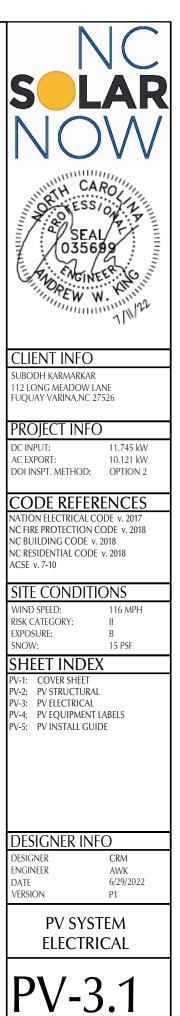
| DC / AC I | nverter |
|-----------------------|--------------|
| MAKE | ENPHASE |
| MODEL | IQ8A-72-2-US |
| DC INPUT: | |
| POWER RANGE (WATTS) | 295-500 |
| MIN/MAX START VOLT. | 30 / 58 |
| OPERATING VOLT. RANGE | 25-58 |
| MAX. CURRENT | 15 AMPS |
| MODULE COMPATIBILITY | 60 & 72 CELL |
| AC OUTPUT: | |
| MAX. POWER | 366 WATTS |
| NOM. POWER | 349 WATTS |
| NOM. VOLT. | 211-240-264 |
| MAX. CURR. | 1.45 AMPS |
| DC DISC. (Y/N) | NO |
| RAPID SHUTDOWN (Y/N) | YES |
| PROTECT. RATING | NEMA TYPE 6 |
| UL LIST. (Y/N) | YES |
| MAX BRANCH CIRCUIT | YES |

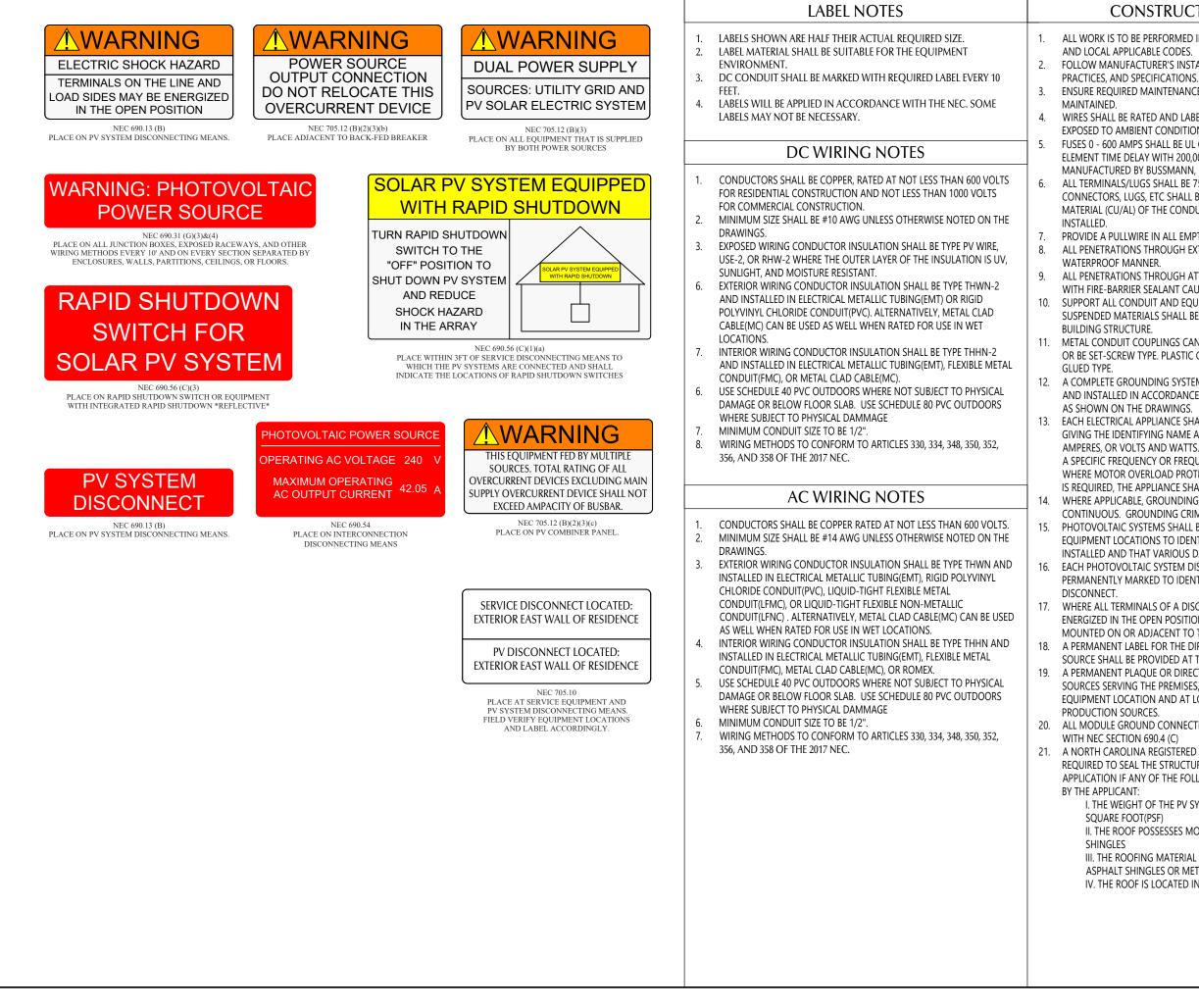
AC DISCONNECT

| MAKE | GENERIC |
|----------------|-----------|
| MODEL | NA |
| 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 |
| | |

- LOAD-BREAK RATED
- VISIBLE OPEN ٠
- LOCKABLE IN OPEN POSITION •
- INSTALL ADJACENT TO METER ٠
- DISCONNECT TO BE READILY ACCESSIBLE . TO UTILITY COMPANY PERSONNEL AT ALL TIMES







CONSTRUCTION NOTES

ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE NEC, STATE,

FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS, BEST

ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE

WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS.

FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE. ALL TERMINALS/LUGS SHALL BE 75° RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY

PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.

ALL PENETRATIONS THROUGH EXTERIOR ROOFS SHALL BE FLASHED IN A

ALL PENETRATIONS THROUGH ATTIC FIRE BARRIERS SHALL BE SEALED WITH FIRE-BARRIER SEALANT CAULK.

10. SUPPORT ALL CONDUIT AND EQUIPMENT IN ACCORDANCE W/ NEC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE

11. METAL CONDUIT COUPLINGS CAN BE COMPRESSION TYPE, THREADED, OR BE SET-SCREW TYPE. PLASTIC CONDUIT COUPLINGS TO BE SOCKET

12. A COMPLETE GROUNDING SYSTEM SHALL BE PRESENT OR PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND

13. 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.

14. WHERE APPLICABLE, GROUNDING ELECTRODE CONDUCTOR TO BE CONTINUOUS. GROUNDING CRIMPS TO BE IRREVERSIBLE. 15. PHOTOVOLTAIC SYSTEMS SHALL BE PERMANENTLY MARKED AT VARIOUS EQUIPMENT LOCATIONS TO IDENTIFY THAT A PHOTOVOLTAIC SYSTEM IS

INSTALLED AND THAT VARIOUS DANGERS ARE PRESENT.

16. EACH PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A PHOTOVOLTAIC SYSTEM

17. 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.

18. A PERMANENT LABEL FOR THE DIRECT-CURRENT PHOTOVOLTAIC POWER SOURCE SHALL BE PROVIDED AT THE DC DISCONNECT MEANS.

19. 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

20. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE

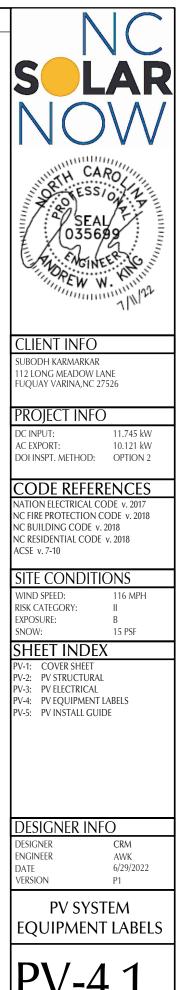
21. A NORTH CAROLINA REGISTERED DESIGN PROFESSIONAL WILL BE REQUIRED TO SEAL THE STRUCTURAL DESIGN AT THE TIME OF PERMIT APPLICATION IF ANY OF THE FOLLOWING EXIST AND ARE ATTESTED TO

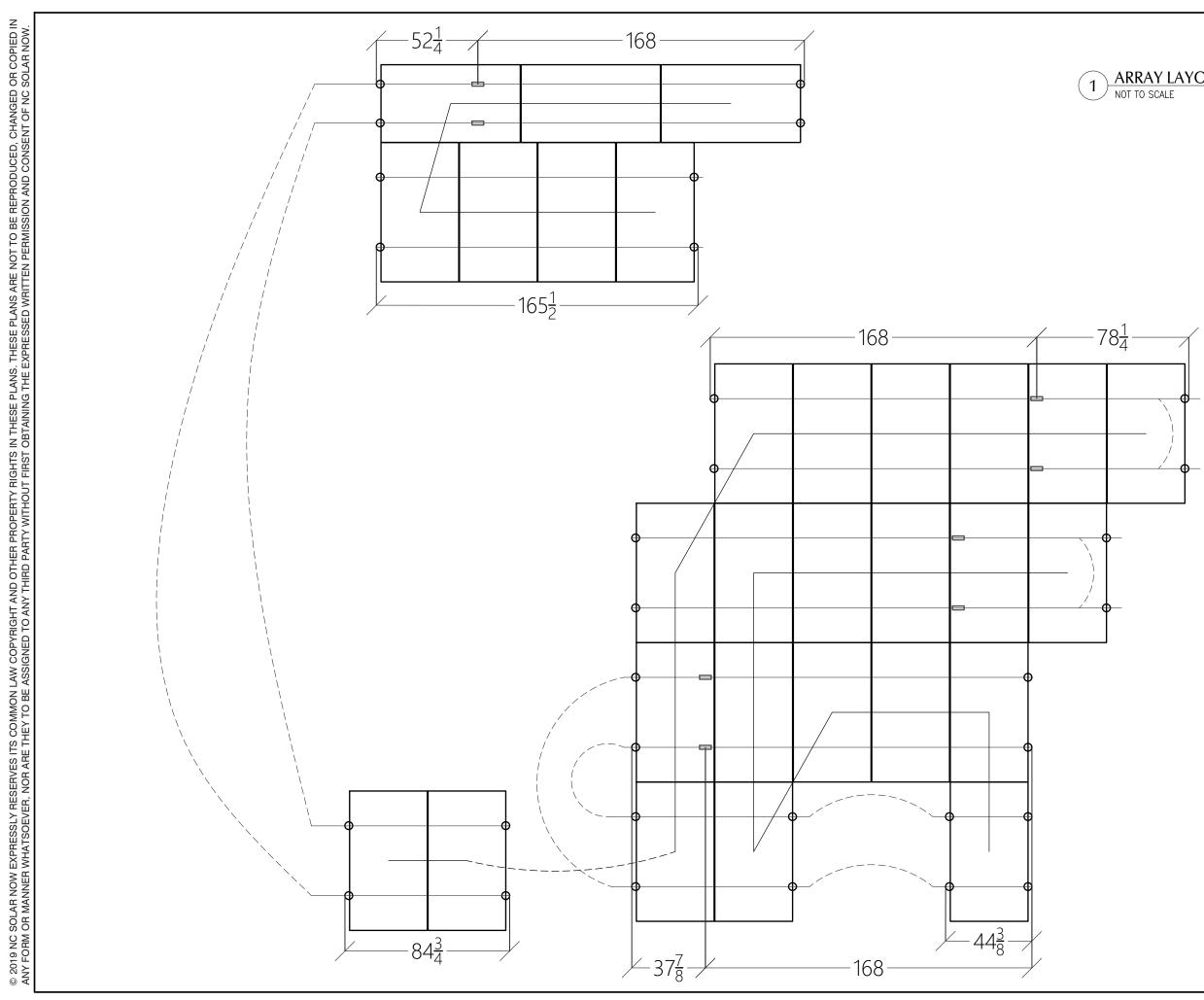
I. THE WEIGHT OF THE PV SYSTEM EXCEEDS THREE (3) POUNDS PER

II. THE ROOF POSSESSES MORE THAN ONE (1) LAYER OF ASPHALT

III. THE ROOFING MATERIAL CONSISTS OF A TYPE OTHER THAN ASPHALT SHINGLES OR METAL

IV. THE ROOF IS LOCATED IN A 140 MPH OR GREATER WIND ZONE





ARRAY LAYOUT DETAIL

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| SIAR |
| NOW |
| SEAL |
| |
| SUBODH KARMARKAR 112 LONG MEADOW LANE FUQUAY VARINA,NC 27526 |
| PROJECT INFO |
| DC INPUT: 11.745 kW AC EXPORT: 10.121 kW DOI INSPT. METHOD: OPTION 2 |
| CODE REFERENCES |
| NATION ELECTRICAL CODE v. 2017 NC FIRE PROTECTION CODE v. 2018 NC BUILDING CODE v. 2018 NC RESIDENTIAL CODE v. 2018 ACSE v. 7-10 |
| SITE CONDITIONS |
| WIND SPEED:116 MPHRISK CATEGORY:IIEXPOSURE:BSNOW:15 PSF |
| |
| PV-1: COVER SHEET PV-2: PV STRUCTURAL PV-3: PV ELECTRICAL PV-4: PV EQUIPMENT LABELS PV-5: PV INSTALL GUIDE |
| |
| DESIGNER INFO |
| DESIGNER CRM ENGINEER AWK DATE 6/29/2022 VERSION P1 |
| PV SYSTEM INSTALL GUIDE |
| PV-5.1 |