

76 North Meadowbrook Drive Alpine, UT 84004 office (201) 874-3483 swyssling@wysslingconsulting.com

November 27, 2023

Current Insight 2852 W. Amini Way South Jordan, UT 84095

> Re: Engineering Services Stocks Residence 57 Simmons Drive, Erwin NC 7.600 kW System

To Whom It May Concern:

We have received information regarding solar panel installation on the roof of the above referenced structure. Our evaluation of the structure is to verify the existing capacity of the roof system and its ability to support the additional loads imposed by the proposed solar system.

A. Site Assessment Information

- 1. Site visit documentation identifying attic information including size and spacing of framing for the existing roof structure.
- Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information will be utilized for approval and construction of the proposed system.

B. Description of Structure:

Roof Framing: 2x6 dimensional lumber at 24" on center.

Roof Material: Composite Asphalt Shingles

Roof Slope: 22 degrees
Attic Access: Accessible
Foundation: Permanent

C. Loading Criteria Used

- Dead Load
 - Existing Roofing and framing = 7 psf
 - New Solar Panels and Racking = 3 psf
 - TOTAL = 10 PSF
- Live Load = 20 psf (reducible) 0 psf at locations of solar panels
- Ground Snow Load = 15 psf
- Wind Load based on ASCE 7-10
 - Ultimate Wind Speed = 119 mph (based on Risk Category II)
 - Exposure Category C

Analysis performed of the existing roof structure utilizing the above loading criteria is in accordance with the 2018 North Carolina Residential Code, including provisions allowing existing structures to not require strengthening if the new loads do not exceed existing design loads by 105% for gravity elements and 110% for seismic elements. This analysis indicates that the existing framing will support the additional panel loading without damage, if installed correctly.

D. Solar Panel Anchorage

- The solar panels shall be mounted in accordance with the most recent Ironridge installation manual.
 If during solar panel installation, the roof framing members appear unstable or deflect non-uniformly, our office should be notified before proceeding with the installation.
- 2. The maximum allowable withdrawal force for a 5/16" lag screw is 229 lbs per inch of penetration as identified in the National Design Standards (NDS) of timber construction specifications. Based on a minimum penetration depth of 2½", the allowable capacity per connection is greater than the design withdrawal force (demand). Considering the variable factors for the existing roof framing and installation tolerances, the connection using one 5/16" diameter lag screw with a minimum of 2½" embedment will be adequate and will include a sufficient factor of safety.
- 3. Considering the wind speed, roof slopes, size and spacing of framing members, and condition of the roof, the panel supports shall be placed no greater than 48" on center.

Based on the above evaluation, this office certifies that with the racking and mounting specified, the existing roof system will adequately support the additional loading imposed by the solar system. This evaluation is in conformance with the 2018 North Carolina Residential Code, current industry standards, and is based on information supplied to us at the time of this report.

Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

344 L. Ng

Scott E. Wysslind, PE North Carolina License 2. 46546 North Carolina COA P-2308 TH CARO

Wyssling Consulting, PLLC 76 N Meadowbrook Drive Alpine UT 84004 North Carolina COA # P-2308



ALICE STOCKS 57 RESIDENCE

NEW PHOTOVOLTAIC ROOF MOUNT SYSTEM PROJECT - 6.400 KW DC / 7.600 KW AC

COORDINATES:

35.348489, -78.706965

| SHEET NAME |
|--------------------|
| COVER SHEET |
| PLAN NOTES |
| SITE PLAN LAYOUT |
| ATTACHMENT DETAILS |
| MOUNTING DETAILS |
| ELECTRICAL DIAGRAM |
| WARNING LABELS |
| SPEC SHEET |
| SPEC SHEET |
| SPEC SHEET |
| SPEC SHEET |
| |

AERIAL VIEW

BYLD BETTER

CONTRACTOR

DESIGN SPECIFICATIONS
OCCUPANCY:

PROPERTY OWNER

CONTRACTOR

NAME:

NAME:

CONSTRUCTION TYPE: SINGLE FAMILY RESIDENCE

BYLD

ALICE STOCKS 57

ZONING: RESIDENTIAL

PROJECT INFORMATION

WIND EXPOSURE: C

AHJ: HARNETT COUNTY UTILITY: SOUTH RIVER EMC

APPLICABLE CODES & STANDARDS

NORTH CAROLINA RESIDENTIAL CODE 2018 (NCRC 2018)
NORTH CAROLINA BUILDING CODE 2018 (NCBC 2018)
NORTH CAROLINA FIRE CODE 2018 (NCFC 2018)

NATIONAL ELECTRICAL CODE, NEC 2020 CODE BOOK, NFPA 70

TYPE OF

INTERCONNECTION: BACKFEED BREAKER IN THE SSP

SCOPE OF WORK

TYPE OF SYSTEM: ROOF MOUNT

SYSTEM SIZE: STC: 16 X 400W = 6.400kW PTC: 16 X 383W = 6.128kW

(16) REC SOLAR REC ALPHA REC400AA PURE-R (400W) [BLK] MODULES

(1) TESLA 7.6 KW INVERTER (1) 60A KNIFE AC DISCONNECT SEAL O46546 ***

Wyssling Consulting, PLLC
76 N Meadowbrook Drive Alpine UT 84004
North Carolina COA # P-2308
Signed 11/27/2023

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Simmons Or Simmons Or

BYLD

ADDRESS:1213W MOOREHEAD ST, STE500 CHARLOTTE, NC 28208 LICENSE #:

DESIGNER: OAV

ALICE STOCKS 57 RESIDENCE

57 SIMMONS DR, ERWIN , NC 28339

APN: 0588713857.000

DATE:11/14/2023

DESIGN BY



A Brighter Way.

SHEET

T-1 COVER SHEET



MSP UPGRADE: NO MAIN BREAKER DERATE: NO

RACKING & MOUNTING

PV ATTACHMENT TYPE: IRONRIDGE FLASHVUE FOR COMP SHINGLE ROOF

RACKING TYPE: IRONRIDGE XR10 RAIL ROOF

MOUNT RACKING HARDWARE

1.1. PROJECT NOTES:

- THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) ARTICLE 690, ALL MANUFACTURER'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
- THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
- GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE INVERTER IN ACCORDANCE WITH NEC 690.5(A)
- ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4 & NEC 690.60: PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED. IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
- MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.7. ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING INEC 110.31.
- ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT. IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

1.9. SCOPE OF WORK:

1.10. PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT.

1.11. WORK INCLUDES:

- 1.12. PV ROOF ATTACHMENTS IRONRIDGE FLASHVUE FOR COMP SHINGLE ROOF
- 1.13. PV RACKING SYSTEM INSTALLATION IRONRIDGE XR10 RAIL ROOF MOUNT **RACKING HARDWARE**
- 1.14. PV MODULE AND INVERTER INSTALLATION REC SOLAR REC ALPHA REC400AA PURE-R (400W) [BLK] MODULES/ TESLA 7.6 KW INVERTER.
- 1.15. PV EQUIPMENT GROUNDING
- 1.16. PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX
- 1.17. PV LOAD CENTERS (IF INCLUDED)
- 1.18. PV METERING/MONITORING (IF INCLUDED)
- 1.19. PV DISCONNECTS
- 1.20. PV GROUNDING ELECTRODE & BONDING TO (E) GEC
- 1.21. PV FINAL COMMISSIONING
- 1.22. (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
- 1.23. SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

1.24. SITE NOTES:

- 1.25. A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 1.26. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.
- 1.27. THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- 1.28. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION
- 1.29. ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE.

1.30. EQUIPMENT LOCATIONS:

- 1.31. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26
- 1.32. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLES 310.15 (B)(2)(A) AND 310.15 (B)(3)(C)
- 1.33. JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
- ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.
- ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

1.37. STRUCTURAL NOTES:

- 1.38. RACKING SYSTEM
- 1.39. PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND
- 1.40. A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAI MANUFACTURER'S INSTRUCTIONS.
- JUNCTION BOX WILL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED SEALED PER LOCAL REQUIREMENTS.
- 1.42. ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- 1.43. ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.
- WHEN POSSIBLE. ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

1.45. WIRING & CONDUIT NOTES:

- 1.46. ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 1.48. VOLTAGE DROP LIMITED TO 2%.
- 1.49. DC WIRING LIMITED TO MODULE FOOTPRINT. INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY W/ SUITABLE WIRING CLIPS.
- 1.50. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1-BLACK PHASE B OR L2- RED, OR OTHER CONVENTION IF THREE PHASE PHASE C OR L3- BLUE, YELLOW, ORANGE**, OR OTHER CONVENTION NEUTRAL- WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15

1.51. GROUNDING NOTES:

- GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.
- 1.53. PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC TABLE 250.122.
- METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A).
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45 AND INVERTER MANUFACTURER'S INSTRUCTIONS.

- 1.56. EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 1.57. THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- 1.58. GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]
- THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE. A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250,
- NEC 690.47 AND AHJ. 1.60. GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.5 IN GENERAL AND NEC 690.5 (A)(1) SPECIFICALLY.

1.61. DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:

- 1.62. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).
- 1.63. DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL. BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
- 1.64. RAPID SHUTDOWN OF ENERGIZED CONDUCTORS BEYOND 10 FT OF PV ARRAY OR 5 FT INSIDE
- A BUILDING WITHIN 10 SECONDS. CONTROLLED CONDUCTORS ≤30V AND ≤240VA [NEC 690.12]. LOCATION OF LABEL ACCORDING TO AHJ
- 1.65. ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690 9 AND 240
- 1.66. INVERTER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC 110.3(B).
- 1.67. IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.

1.68. ELECTRICAL INTERCONNECTION NOTES:

CONDUCTORS

- THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY NOT EXCEED 120% OF THE BUSBAR RATING.
- 1.70. WHEN THE SUM OF THE PV SOURCES EQUALS >100% OF THE BUSBAR RATING, PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED F OSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD.
- LATING OF ALL 1.71. AT MULTIPLE PV OUTPUT COM HOCARO OVERCURRENT DEVICES S CITY OF THE BUSBAR. HOWEVER, THE COMBIN BE EXCLUDED. 1.72. SUPPLY-SIDE TAP INT 1 SERVICE ENTRANCE
- BACKFEEDING BREA ERTER OUTPUT IS **EXEMPT FROM ADD**



Wyssling Consulting, PLLC 76 N Meadowbrook Drive Alpine UT 84004 North Carolina COA # P-2308 Signed 11/27/2023

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CONTRACTOR

BYLD

ADDRESS:1213W MOOREHEAD ST. STE500 CHARLOTTE. NC 28208 LICENSE #:

DESIGNER: OAV

ALICE STOCKS 57 RESIDENCE

57 SIMMONS DR. ERWIN NC 28339

APN: 0588713857.000

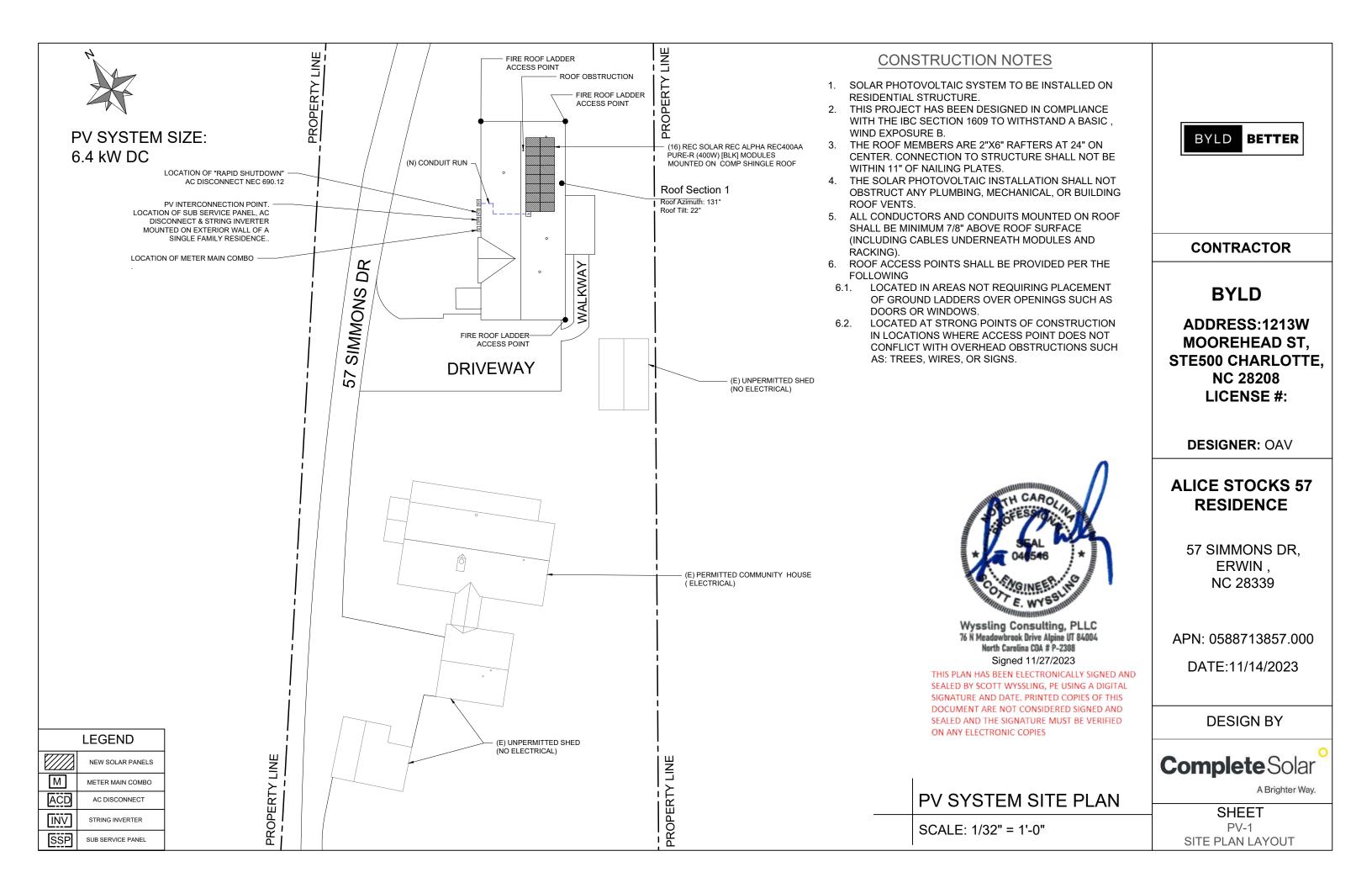
DATE:11/14/2023

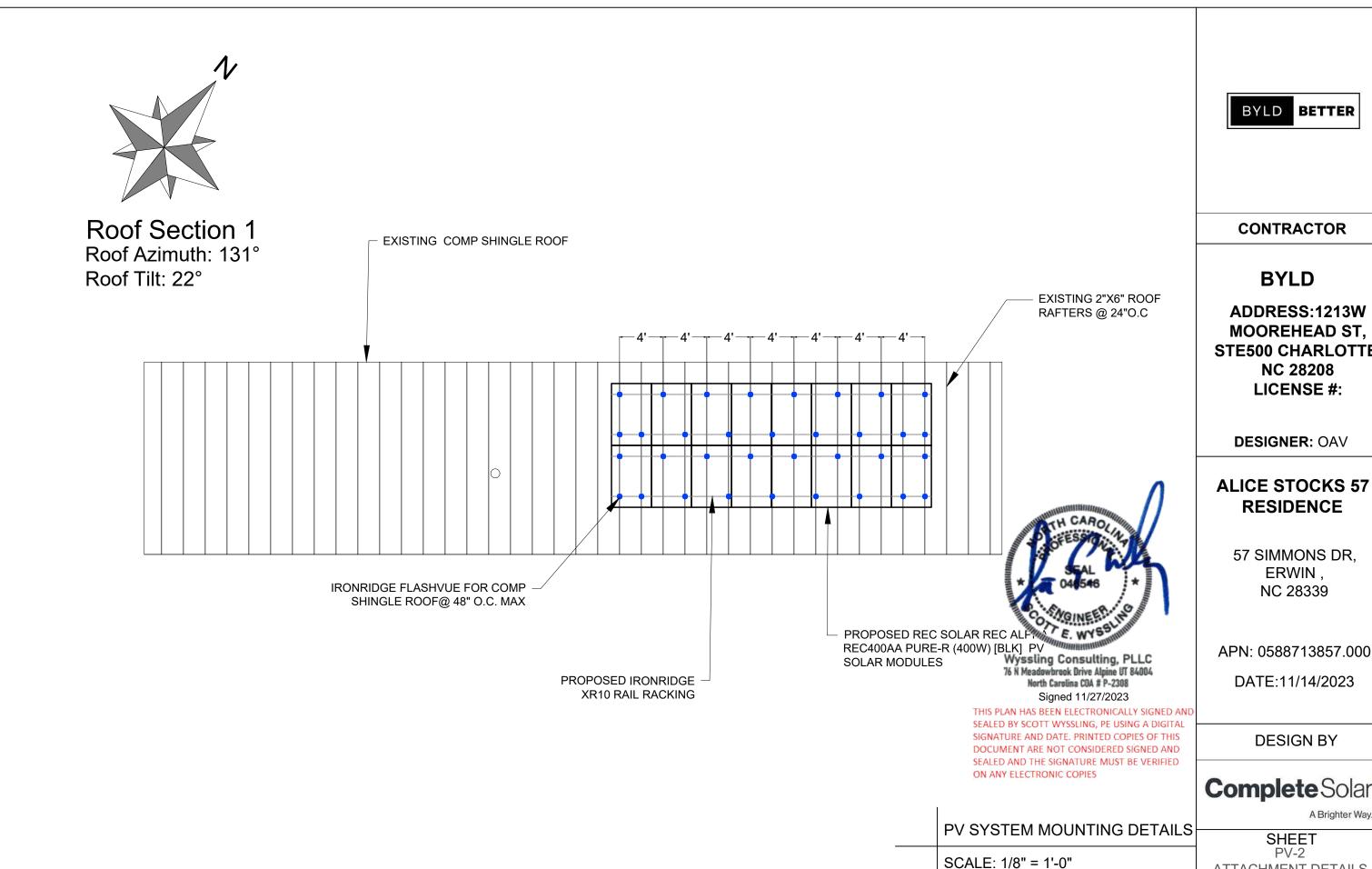
DESIGN BY



A Brighter Way.

SHEET T-2 **PLAN NOTES**





BYLD BETTER

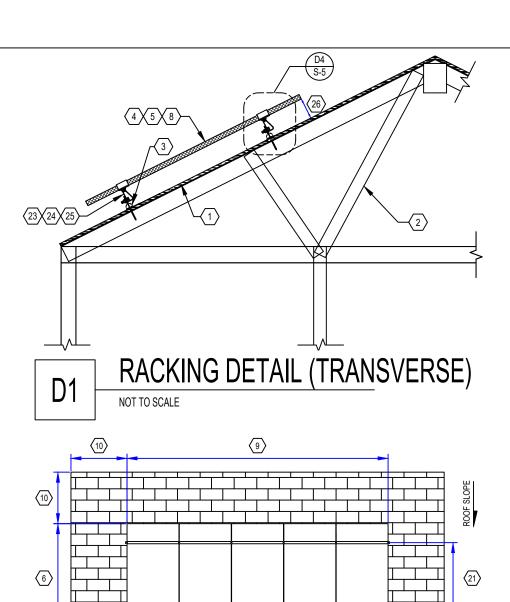
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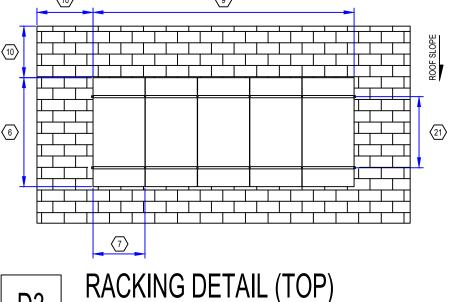
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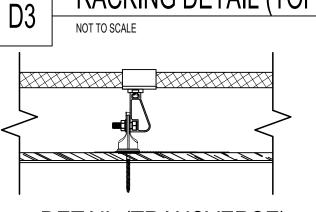


A Brighter Way.

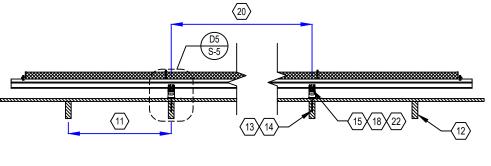
ATTACHMENT DETAILS







DETAIL (TRANSVERSE) NOT TO SCALE



RACKING DETAIL (LONGITUDINAL)

DETAIL (LONGITUDINAL)

D5

NOT TO SCALE

- ROOF MATERIAL: COMP SHINGLE ROOF
- **ROOF STRUCTURE: RAFTERS**
- ATTACHMENT TYPE: IRONRIDGE FLASHVUE
- MODULE MANUFACTURER: REC SOLAR
- MODULE MODEL: REC ALPHA REC400AA PURE-R (400W) [BLK]
- MODULE LENGTH: 68.11"
- MODULE WIDTH: 44.01"
- MODULE WEIGHT: 47.39 LBS.
- SEE SHEET S-1 FOR DIMENSION(S)
- MIN. FIRE OFFSET
- RAFTERS SPACING: 24" O.C.
- RAFTERS SIZE: 2"X6" NOMINAL
- LAG BOLT DIAMETER: 5/16 IN.
- LAG BOLT EMBEDMENT: 2.5 IN.
- TOTAL # OF ATTACHMENTS: 34
- TOTAL AREA: 333.06 SQ. FT.
- TOTAL WEIGHT: 758.24LBS.
- WEIGHT PER ATTACHMENT: 22.30 LBS.
- DISTRIBUTED LOAD: 2.28 PSF
- MAX. HORIZONTAL STANDOFF: 48 IN.
- 1 X. VERTICAL STANDOFF:

NDSCAPE: 26 IN., PORTRAIT: 44 IN.

TANDOFF STAGGERING: YES

RAIL MANUFACTURER AND MODEL

(OR EQUIV.):IRONRIDGE XR10 RAIL

WEIGHT: 0.436 PLF.

(. RAFTERS SPAN: 12 FT.

DULE CLEARANCE: 3 IN. MIN., 6 IN. MAX.

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DESIGNER: OAV

ALICE STOCKS 57 RESIDENCE

57 SIMMONS DR, **ERWIN**, NC 28339

APN: 0588713857.000

DATE:11/14/2023

DESIGN BY

Complete Solar

A Brighter Way

SHEET PV-3 MOUNTING DETAILS

| PV Module Ratir | ngs @ ST | С | | SYSTE | EM SUMMARY | | Inverter | Ratings | |
|---|---|-----------------|--|----------------|------------|-------------|--|---|---|
| | , , , , , , , , , , , , , , , , , , , | | | | BRANCH #1 | BRANCH #2 | | | † |
| Module Make/Model | REC SOLA | AR REC ALPHA | MODULES PER | BRANCH | 8 | 8 | Inverter Make/Model | TESLA 7.6 KW INVERTER | |
| Module Make/Model | I ILO | (400W) [BLK] | SHORT-CIRCUI | T CURRENT (ISC | C) 8.80A | 8.80A | Inverter wake/woder | TESLA 7.0 KW INVERTER | |
| Max Power-Point Current (Imp) | | 8.20A | ARRAY STC PC |)WFR | | 6400W | Max DC Volt Rating | 600V | BYLD BETTER |
| Max Power-Point Voltage (Vmp) | | 48.8V | ARRAY PTC PC | WER | | 6128.0W | Max Continous Output | 7600W | |
| Open-Circuit Voltage (Voc) | | 58.9V | MAX AC CURRI | ENT | | 32.00A | Power | | _ |
| Short-Circuit Current (Isc) | | 8.80A | MAX AC POWE | R | | 7600W | Max Nominal Voltage | 240V | - |
| Max Series Fuse (OCPD) | | 25A | DERATED (CEC | | | 5974.8W | Max Continous output | 32A | |
| Nominal Maximum Power at STC (Pmax) | | 400W | BEIGHTED (GEG | 7,7101 011211 | | 3974.000 | Max OCPD Rating | 40A | |
| Maximum System Voltage | | 1000V | | | | | DESIGN TEM | 1PERATURES | CONTRACTOR |
| Voc Temperature Coefficient | | -0.24 %/°C | | | | | ASHRAE EXTREME LOW | -10°C | |
| Con | duit and Cor | nductor Schedu | le | | | | ASHRAE 2% HIGH | 35°C | BYLD |
| Tag Description | Wire Gauge | # of Conductors | Conduit Type | Conduit Size | | | | | ADDRESS:1213W |
| 1 PV WIRES | 10 AWG | 4(2V+, 2V-) | N/A - Free Air | N/A - Free Air | | | | | MOOREHEAD ST, |
| Bare Copper Ground (EGC/GEC) | 6 AWG | 1 | N/A - Free Air | N/A - Free Air | | | | | STE500 CHARLOTTE, |
| 2 THWN-2 | 10 AWG | 4(2V+, 2V-) | EMT | 3/4" | | | | | NC 28208 |
| 2 THWN-2 - Ground | 10 AWG | 1 | EMT | 3/4" | | | | | LICENSE #: |
| 3 THWN-2 | 8 AWG | 3(L1, L2, N) | EMT | 3/4" | | 0.17 | MET | ER # 16090515 | |
| 3 THWN-2 - Ground | 10 AWG | 1 | EMT | 3/4" | | | <u>S SERVICE PANEL</u> /120V 1Ø, 3W | POINT OF | DESIGNER: OAV |
| (N) (16)REC SOLAR REC ALPH PURE-R (400W) [BLK] MC 8 MODULES IN BRANCH #1 8 MODULES IN BRANCH #2 2 H H H H H H H H H H H H H H H H H | DDULES | 1 | (N) JUNCTION BOX WITH IRREVERSIBLE GROUND SPLICE | | 3 | MAII MAX | N BUSS: 200A IN K BREAKER SIZE: DA X 1.2) - 200A = 40.0A | EXISTING WIRE EXISTING WIRE 200A AMAIN SERVICE DISCONNECT SINGLE PHASE (E) GROUNDING ELECTRODE OR (UFER) | ALICE STOCKS 57 RESIDENCE 57 SIMMONS DR, ERWIN, NC 28339 APN: 0588713857.000 DATE:11/14/2023 |
| BRAN BRAN | | | | | | | | | DESIGN BY |
| NOTE: IN BETWEEN EACH ARRAY THE EGROUNDING / BONDING, GROUND CLAIDEND OF THE EMT CONDUIT WITH THE VAIR'D TO THE GROUND CLAMP ON THE | MPS ARE AT EACH VIRE THEN FREE | E | | | | | | | Complete Solar A Brighter Way. |
| | | | | | | | | | SHEET E-1 ELECTRICAL DIAGRAM |

! WARNING

ELECTRICAL SHOCK HAZARD

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

LABEL LOCATION:

INVERTER(S), AC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE). PER CODE(S): NEC: 690.13(B), NEC: 690.17(E), NEC: 690.17(4)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION:

UTILITY SERVICE ENTRANCE/METER, INVERTER/DC DISCONNECT IF REQUIRED BY LOCAL AHJ, OR OTHER LOCATIONS AS REQUIRED BY LOCAL AHJ. PER CODE(S): NEC: 690.56(C)(3), NEC: 690.12, NEC 690.56, IFC: 605.11.1, IFC: 1204.5.3

!WARNING

POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION:

ADJACENT TO PV BREAKER (IF APPLICABLE). PER CODE(S): NEC: 705.12(B)(3)(2), NEC: 705.12(B)(2)(3)(b), NEC: 705.12(D)(2)(3)(b)

! WARNING

THIS EQUIPMENT FED BY MULTIPLE
SOURCES. TOTAL RATING OF ALL
OVERCURRENT DEVICES, EXCLUDING
MAIN SUPPLY OVERCURRENT
DEVICE, SHALL NOT EXCEED
AMPACITY OF BUSBAR.

LABEL LOCATION:

AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION.

PER CODE(S): NEC: 690.54, NEC: 690.54, NEC: 690.54

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

<u>LABEL LOCATION:</u> PV SYSTEM DISCONNECT PER CODE(S): NEC 690.13(B)



DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION:

MAIN SERVICE PANEL (IF APPLICABLE).
PER CODE(S): NEC: 705.12(C) & 690.59

GENERATION DISCONNECT SWITCH

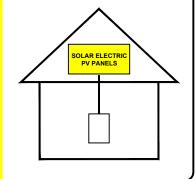
MAXIMUM AC OPERATING CURRENT: 32.00 AMPS NOMINAL OPERATING AC VOLTAGE: 240.0 VAC

LABEL LOCATION:

AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION.
PER CODE(S): NEC: 690.54

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.



LABEL LOCATION:

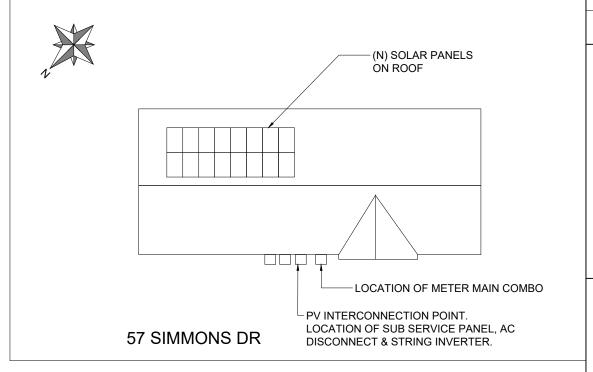
ON OR NO MORE THAT 3 M (10 FT) FROM THE SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED.

PER CODE(S): NEC: 690.56(C)(1)(a)

CAUTION:

POWER TO THIS BUILDING IS
ALSO SUPPLIED FROM THE
FOLLOWING SOURCES WITH
DISCONNECTS AS SHOWN





CONTRACTOR

BYLD

ADDRESS:1213W MOOREHEAD ST, STE500 CHARLOTTE, NC 28208 LICENSE #:

DESIGNER: OAV

ALICE STOCKS 57 RESIDENCE

57 SIMMONS DR, ERWIN, NC 28339

APN: 0588713857.000

DATE:11/14/2023

DESIGN BY

CompleteSolar

A Brighter Way.

SHEET E-2 WARNING LABELS

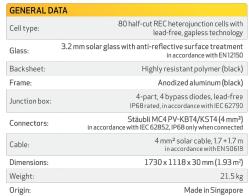
PERMANENT SIGNAGE NOTES:

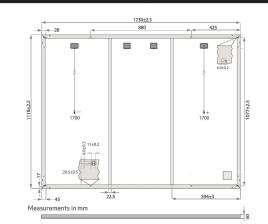
- NOT ALL PLACARDS SHOWN MAY BE REQUIRED BY LOCAL AHJ. CONTRACTOR TO VERIFY PLACARD REQUIREMENTS WITH LOCAL AHJ BEFORE INSTALLATION.
- 2. ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE
- 3. ALTERNATE POWER SOURCE PLACARD SHALL BE METALLIC OR MACHINE PRINTED LETTERS IN A CONTRASTING COLOR TO THE PLAQUE. THIS PLAQUE WILL BE ATTCHED BY POP RIVETS OR SCREWS OR OTHER APPROVED METHOD.
- 4. DIRECTORY PLACARD MARKING CONTENT AND FORMAT: RED BACKGROUND, WHITE LETTERING, MINIMUM 3/8" LETTER HIEGHT, ALL CAPITAL LETTERS, ARIAL OR SIMILAR FONT, NON BOLD, REFLECTIVE WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT.



REC ALPHA PURE-R SERIES PRODUCT SPECIFICATIONS







IEC 61701

IEC 62716

ISO 11925-2

IEC 62782

IFC 62321

IEC 61215-2:2016

IEC 61215:2016, IEC 61730:2016, UL 61730

Salt Mist

IEC 61730-2:2016 Fire Class C (as per UL790)

Nominal Module Operating Temperature: Temperature coefficient of P_{MAX}

Temperature coefficient of V_{ov}

Temperature coefficient of I

Ammonia Resistance

Hailstone (35mm)

Dynamic Mechanical Load

Ignitability (EN 13501-1 Class E)

Lead-free acc. to RoHS EU 863/2015

-0.24 %/°C

0.04 %/°C

| ELECTRICAL DATA | | Product Code*: RE | CxxxAA Pure-R | |
|--|-------|-------------------|---------------|-------|
| Power Output - P _{MAX} (Wp) | 400 | 410 | 420 | 430 |
| Watt Class Sorting - (W) | 0/+10 | 0/+10 | 0/+10 | 0/+10 |
| Nominal Power Voltage - $V_{MPP}(V)$ | 48.8 | 49.4 | 50.0 | 50.5 |
| Nominal Power Current - I _{MPP} (A) | 8.20 | 8.30 | 8.40 | 8.52 |
| Open Circuit Voltage - V _{oc} (V) | 58.9 | 59.2 | 59.4 | 59.7 |
| Short Circuit Current - I _{SC} (A) | 8.80 | 8.84 | 8.88 | 8.91 |
| Power Density (W/m²) | 207 | 212 | 218 | 223 |
| Panel Efficiency (%) | 20.7 | 21.2 | 21.8 | 22.3 |
| Power Output - P _{MAX} (Wp) | 305 | 312 | 320 | 327 |
| Nominal Power Voltage - V _{MPP} (V) | 46.0 | 46.6 | 47.1 | 47.6 |
| Nominal Power Current - I _{MPP} (A) | 6.64 | 6.70 | 6.80 | 6.88 |
| Open Circuit Voltage - V _{oc} (V) | 55.5 | 55.8 | 56.0 | 56.3 |
| Short Circuit Current - I _{SC} (A) | 7.11 | 7.16 | 7.20 | 7.24 |

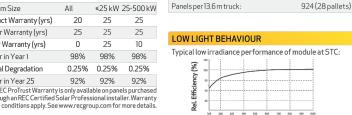
Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P_{WAX} , V_{GC} & I_{GC} ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s).* Where $x = x_{GC}$ which we can be a supported by the control of the c

| MAXIMUM RATINGS | |
|--------------------------|---------------------------------|
| Operational temperature: | -40+85°C |
| System voltage: | 1000 V |
| Test load (front): | +7000 Pa (713 kg/m²)° |
| Test load (rear): | -4000 Pa (407 kg/m²)° |
| Series fuse rating: | 25 A |
| Reverse current: | 25 A |
| | anual for mounting instructions |

Available from:

| C. | | Standard | RECI | ProTrust |
|------|---|----------|--------|-----------|
| ٧ | Installed by an REC Certified Solar Professional | l No | Yes | Yes |
| 2)~ | System Size | All | ≤25 kW | 25-500 kW |
| 2)" | Product Warranty (yrs) | 20 | 25 | 25 |
| Α | Power Warranty (yrs) | 25 | 25 | 25 |
| Α | Labor Warranty (yrs) | 0 | 25 | 10 |
| ons. | Power in Year 1 | 98% | 98% | 98% |
| tor) | Annual Degradation | 0.25% | 0.25% | 0.25% |
| | Power in Year 25 | 92% | 92% | 92% |
| | The REC ProTrust Warranty is | | | |

| nstalled by an REC Certified Solar Professional | l No | Yes | Yes | Panels per 40 ft GP/high cube container: 858 (26 pall |
|---|-------|--------|-----------|---|
| System Size | All | ≤25 kW | 25-500 kW | Panels per 13.6 m truck: 924 (28 palle |
| Product Warranty (yrs) | 20 | 25 | 25 | |
| Power Warranty (yrs) | 25 | 25 | 25 | LOW LIGHT BEHAVIOUR |
| Labor Warranty (yrs) | 0 | 25 | 10 | |
| Power in Year 1 | 98% | 98% | 98% | Typical low irradiance performance of module at STC: |
| Annual Degradation | 0.25% | 0.25% | 0.25% | 8) 100 |
| Power in Year 25 | 92% | 92% | 92% | CO * |
| The REC ProTrust Warranty is through an REC Certified So | | | | Efficiency |



Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

REC Solar PTE. LTD. 20 Tuas South Ave. 14 Singapore 637312 post@recgroup.com www.recgroup.com





CONTRACTOR

BYLD

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DESIGNER: OAV

ALICE STOCKS 57 RESIDENCE

57 SIMMONS DR. ERWIN, NC 28339

APN: 0588713857.000

DATE:11/14/2023

DESIGN BY



A Brighter Way.

SHEET S-1 SPEC SHEET



SOLAR INVERTER

3.8 kW | 7.6 kW

KEY FEATURES

- Built on Powerwall 2 technology for exceptional efficiency and reliability

- 3.8 kW and 7.6 kW models available

SOLAR INVERTER

 $Tesla \, Solar \, Inverter \, provides \, DC \, to \, AC \, conversion \, and \, integrates \, with \, the \, Tesla \, ecosystem, \, including \, Solar \, Panels, \, Solar \, Roof, \, Powerwall, \, and \, vehicle \, charging, \, to \, provide \, a \, seamless \, conversion \, and \, con$

- · No neutral wire simplifies installation

Integrated rapid shutdown, arc fault, and ground fault protection 2x the standard number of MPPTs for high production on complex roofs

ELECTRICAL SPECIFICATIONS

| OUTPUT (AC) | 3.8 kW | 7.6 kW |
|--|--|----------------|
| Nominal Power | 3.800 W | 7,600 W |
| Maximum Apparent Power | 3,328 VA at 208 V 3,840 VA at 240 V | |
| Maximum Continuous Current | 16 A | 32 A |
| Breaker (Overcurrent Protection) | 20 A | 40 A |
| Nominal Power Factor | 1 - 0.85 (lead | ing / lagging) |
| THD (at Nominal Power) | </td <td>5%</td> | 5% |
| INPUT (DC) | | |
| MPPT | 2 | 4 |
| Input Connectors per MPPT | 1-2 | 1-2-1-2 |
| Maximum Input Voltage | 600 | VDC |
| DC Input Voltage Range | 60 - 55 | 0 VDC |
| DC MPPT Voltage Range ¹ | 60 - 48 | 0 VDC |
| Maximum Current per MPPT (I _{mp}) | 11 | A |
| Maximum Short Circuit Current per MPPT (I _{sc}) | 15 | Α |
| | | |

PERFORMANCE SPECIFICATIONS

| Peak Efficiency ² | 97.5% | 98.0% |
|--|---|------------------|
| CEC Efficiency ² | 97.5 | % |
| Allowable DC/AC Ratio | 1.4 | |
| Customer Interface | Tesla Mobile App | |
| Internet Connectivity | WI-FI (2.4 GHz, 802. Ethernet, Cellular (L | |
| AC Remote Metering Support | Wi-Fi (2.4 GHz, 802. RS-485 | 11 b/g/n), |
| Protections | Integrated arc fault (AFCI), Rapid Shutd | |
| Supported Grid Types | 60 Hz, 240 V Split Pl 60 Hz, 208 V Wye | nase |
| Required Number of Tesla Solar Shutdown Devices per Solar Module | See Solar Shutdown Requirements per M | |
| Warranty | 12.5 years | |
| Medimum current. *Expected efficiency pending final CEC *Cellular connectivity subject to networ strength. | | erage and signal |

MECHANICAL SPECIFICATIONS

| Dimensions | 660 mm x 411 mr | n x 158 mm (26 in x 16 in x 6 in) |
|-----------------------------------|----------------------|-----------------------------------|
| Weight | 52 lb4 | |
| Mounting options | Wall mount (brac | ket) |
| ⁴ Door and bracket car | be removed for a mou | nting weight of 37 lb. |
| 660 mm | T # # L # | |

ENVIRONMENTAL SPECIFICATIONS

| Operating Temperature ⁵ | -30°C to 45°C (-22°F to 113°F) |
|------------------------------------|--|
| Operating Humidity (RH) | Up to 100%, condensing |
| Storage Temperature | -30°C to 70°C (-22°F to 158°F) |
| Maximum Elevation | 3000 m (9843 ft) |
| Environment | Indoor and outdoor rated |
| Enclosure Rating | Type 3R |
| Ingress Rating | IP55 (Wiring compartment) |
| Pollution Rating | PD2 for power electronics and terminal wiring compartment, PD3 for all other components |
| Operating Noise @ 1 m | < 40 db(A) nominal, < 50 db(A) maximum |

COMPLIANCE INFORMATION

| COMPLIANCE | NEORMATION |
|----------------------|---|
| rid Certifications | UL 1741, UL 1741 SA, IEEE 1547, IEEE 1547.1 |
| afety Certifications | UL 1699B, UL 1741, UL 1998 (US) |
| missions | EN 61000-6-3 (Residential), FCC 47CFR15.109 (a) |

SOLAR SHUTDOWN DEVICE

The Tesla Solar Shutdown Device is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with the Tesla Solar Inverter, the



ELECTRICAL SPECIFICATIONS

| Nominal Input DC Current Rating (I _{NP}) | 12 A | |
|--|----------|--|
| Maximum Input Short Circuit Current (Isc) | 15 A | |
| Maximum System Voltage | 600 V DC | |

RSD MODULE PERFORMANCE

| Maximum Number of Devices per String | 5 |
|--------------------------------------|-----------------------|
| Control | Power Line Excitation |
| Passive State | Normally open |
| Maximum Power Consumption | 7 W |
| Warranty | 25 years |

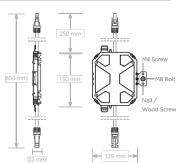
COMPLIANCE INFORMATION

| Certifications | UL 1741 PVRSS PVRSA (Photovoltaic Rapid Shutdown Array) | | |
|-----------------------|---|--|--|
| PVRSS | | | |
| RSD Initiation Method | Loss of AC power | | |
| Compatible Equipment | Tesla Solar Inverter | | |

ENVIRONMENTAL SPECIFICATIONS

| Ambient Temperature | -40°C to 50°C (-40°F to 122°F) |
|---------------------|--------------------------------|
| Storage Temperature | -30°C to 70°C (-22°F to 158°F) |
| Enclosure Rating | NEMA 4 / IP65 |

| Electrical Connections | MC4 Connector | |
|------------------------|---|--|
| Housing | Plastic | |
| Dimensions | 125 mm x 150 mm x 22 mm (5 in x 6 in x 1 in) | |
| Weight | 350 g (0.77 lb) | |
| Mounting Options | ZEP Home Run Clip | |
| | M4 Screw (#10) | |
| | M8 Bolt (5/16") | |
| | Nail / Wood screw | |



SOLAR SHUTDOWN DEVICE REQUIREMENTS PER MODULE

| Brand | Model | Required Solar Shutdown Devices |
|--------|--------------------|--|
| Tesla | Solar Roof V3 | 1 Solar Shutdown Device per 10 modules |
| Hanwha | Q.PEAK DUO BLK-G5 | 1 Solar Shutdown Device per 3 modules |
| Hanwha | Q.PEAK DUO BLK-G6+ | 1 Solar Shutdown Device per 3 modules |



CONTRACTOR

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DESIGNER: OAV

ALICE STOCKS 57 RESIDENCE

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APN: 0588713857.000

DATE:11/14/2023

DESIGN BY



A Brighter Way.

SHEET S-2 SPEC SHEET

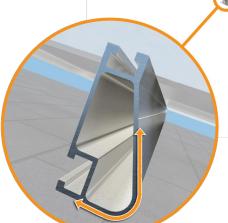


penetrations and the amount

of installation time.

XR Rail Family

Solar Is Not Always Sunny Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame. XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Corrosion-Resistant Materials



Compatible with Flat & Pitched Roofs



IronRidge offers a range of tilt leg options for flat roof mounting applications.

All XR Rails are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.

XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves spans up to 6 feet, while remaining light and economical.

- · 6' spanning capability
- Moderate load capability
- · Clear & black anodized finish
- · Internal splices available



XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 10 feet.

- · 10' spanning capability
- Heavy load capability · Clear & black anodized finish
- Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

| Load | | Rail Span | | | | | |
|------------|------------|-----------|-------|-------|----|--------|-----|
| Snow (PSF) | Wind (MPH) | 4' | 5' 4" | 6' | 8' | 10' | 12' |
| | 90 | | | | | | |
| None | 120 | | | | | | |
| None | 140 | XR10 | | XR100 | | XR1000 | |
| | 160 | | | | | | |
| | 90 | | | | | | |
| 20 | 120 | | | | | | |
| 20 | 140 | | | | | | |
| | 160 | | | | | | |
| 30 | 90 | | | | | | |
| 30 | 160 | | | | | | |
| 40 | 90 | | | | | | |
| 40 | 160 | | | | | | |
| 80 | 160 | | | | | | |
| 120 | 160 | | | | | | |

*Table is meant to be a simplified span chart for conveying general rail capabilities. Use approved certification letters for actual design guidance.



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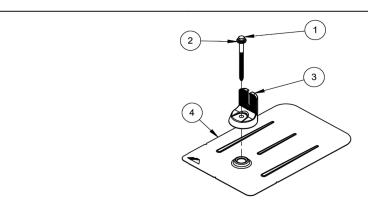
SHEET S-3 SPEC SHEET Cut Sheet





FlashVue

v1.0

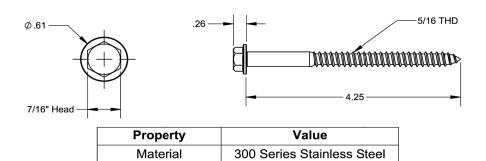


| ITEM NO | DESCRIPTION | QTY IN KIT |
|---------|----------------------------|------------|
| 1 | BOLT, LAG 5/16 X 4.25" | 1 |
| 2 | WASHER, EPDM BACKED | 1 |
| 3 | FM FLASHING, MILL OR BLACK | 1 |
| 4 | GRIP CAP, MILL OR BLACK | 1 |

FLASHVUE

| PART NUMBER | DESCRIPTION |
|-------------|----------------------------|
| FV-01-M1 | FLASHING, FLASHFOOT, MILL |
| FV-01-B1 | FLASHING, FLASHFOOT, BLACK |

1) BOLT, LAG 5/16 x 4.25"



Clear

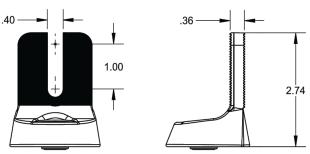
Finish

2) Washer, EPDM Backed

Property Value

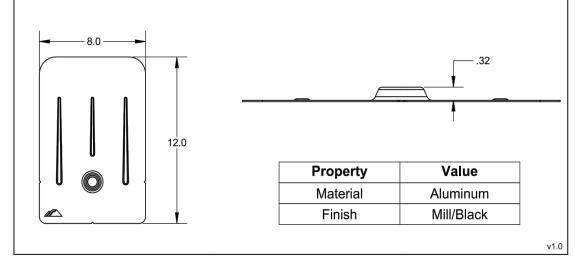
Material 300 Series Stainless Steel
Finish Clear

3) Grip Cap



| Property | Value |
|----------|------------|
| Material | Aluminum |
| Finish | Mill/Black |

4) FM Flashing





CONTRACTOR

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Complete Solar

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SHEET S-4 SPEC SHEET