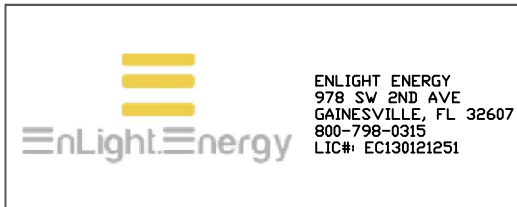


ELECTRICAL NOTES:

1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
2. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
3. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEARES RIDGE, HIP, OR VALLEY.
4. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
5. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
6. WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSKO GBL-4DBT LAY-IN LUG.
10. UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.
11. WORKING CLEARANCES AROUND THE EXISTING AND NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC ARTICLE 110.26.
12. ALL EQUIPMENT INSTALLED SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER NEC ARTICLE 110.3.
13. RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.
14. ALL LABELS OR MARKINGS SHALL BE VISIBLE AFTER INSTALLATION. THE LABELS SHALL BE REFLECTIVE, AND ALL LETTERS SHALL BE CAPITALIZED AND SHALL BE A MINIMUM HEIGHT OF 9.5 MM (3/8 IN) IN WHITE ON A RED BACKGROUND.
15. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 310.10.
16. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE I WET LOCATIONS PER NEC ARTICLE 310.10.
17. ALL EXTERIOR EQUIPMENT IS A MINIMUM OF NEMA-R3 RATED.
18. ALL ELECTRICAL EQUIPMENT WILL BE LOCATED AT OR ABOVE BFE+1' OR 8.00' NAVD.
19. SMOKE ALARMS PER F.S. 553.883.
20. GROUNDING WILL BE IN COMPLIANCE WITH NEC 2020.
21. SYSTEM MEETS THE GROUNDING REQUIREMENTS OF NEC 2020
22. GROUND RODS WILL BE AT LEAST 8' LONG AND 5/18" IN DIAMETER (NEC 250.52(A)(5)).
23. SYSTEM MEETS THE REQUIREMENTS OF NEC 2020.
24. SUPPLEMENTAL ELECTRODES WILL BE ADDED IF REQUIRED.

INVERTER OUTPUT CIRCUIT		
TO OVERCURRENT PROTECTION DEVICE		
DESIGN TEMPERATURE (°F)	94	
MAXIMUM AMBIENT TEMPERATURE RANGE (°F)	87-95	310.15(B)
TEMPERATURE RATING OF CONDUCTOR	75°C	
# OF CARRYING CONDUCTORS	<4	310.15(C)(1)
AC MAX OUTPUT CURRENT	62.5A	690.8(A)(3)
AC MAX OUTPUT CURRENT * 1.25%	78.13A	690.8(B)
OVERCURRENT PROTECTION (A)	80A	
AMBIENT TEMPERATURE CORRECTION FACTOR	0.94	310.15(B)
CONDUCTOR ADJUSTMENT FACTOR	100%	310.15(B)
CONDUCTOR GAUGE (AWG)	4	310.16
CONDUCTOR ALLOWABLE AMPACITY (AMPS)	85	
CONDUCTOR ADJUSTED AMPACITY (AMPS)	79.9	85*.94*1 = 79.9



REVISIONS		
DESCRIPTION	DATE	REV

PROJECT NAME:	TRENT REICHARDT
PROJECT ADDRESS:	159 SW SYDNEY NICOLE CT, LAKE CITY, FL 32024

SHEET NAME:		ELECTRICAL NOTES
SHEET NUMBER:	SHEET SIZE:	
E-02	ANSI B 11"x17"	