GENERAL NOTES

1.1.1 PROJECT NOTES:

- 1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
- 1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
- 1.1.4 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: 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**
- 1.1.5 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.1.6 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 [NEC 110.3].
- 1.1.7 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.

1.2.1 SCOPE OF WORK:

1.2.2 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.

1.3.1 WORK INCLUDES:

- 1.3.2 GROUND MOUNT RACKING IRONRIDGE GROUND MOUNT SYSTEM 1.3.4 PV MODULE AND INVERTER INSTALLATION - REC SOLAR REC 365 NP2 BLK / SOLAR EDGE SE7600H-US (240V) 1.3.4 PV EQUIPMENT GROUNDING 1.3.5 PV LOAD CENTERS (IF INCLUDED)
- 1.3.6 PV METERING/MONITORING (IF INCLUDED)
- 1.3.7 PV DICONNECTS 1.3.8 PV GROUNDING ELECTRODE & BONDING TO (E) GEC
- 1.3.9 PV FINAL COMMISSIONING
- 1.3.10 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
- 1.3.11 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE 1.3.12 TRENCHING (IF NECESSARY)

SCOPE OF WORK

SYSTEM SIZE: STC 24 X 365 = 8.76 kW PTC: 24 X 343.7 = 8.25 kW DC (24) REC SOLAR REC365NP2 BLACK (1) SOLAR EDGE SE7600H-US (240V)

ATTACHMENT TYPE: IRONRIDGE GROUND MOUNT SYSTEM MSP UPGRADE: NO

R

NEW PV SYSTEM: 8.76 kWp POTENZANO RESIDENCE

321 NEILLS CREEK RD LILLINGTON, NC 27546 ASSESSOR'S #: 0660-84-7959.000



)1	AERIAL PHOTO
 ``	NELLS CREEK RD



G	E H
[<u></u>	
SHEET LI	ST TABLE
SHEET NUMBER	SHEET TITLE
T-001	COVER PAGE
G-001	NOTES
A-101	SITE PLAN
A-102	ELECTRICAL PLAN
A-103	SOLAR ATTACHMENT PLAN
E-601	LINE DIAGRAM
E-602	DESIGN TABLES
E-603	PLACARDS
S-501	ASSEMBLY DETAILS
R-001	RESOURCE DOCUMENT
R-002	RESOURCE DOCUMENT
R-003	RESOURCE DOCUMENT
R-004	RESOURCE DOCUMENT
R-005	RESOURCE DOCUMENT
•	

PROJECT INFORMATION

OWNER NAME:

PROJECT MANAGER NAME: PHONE:

CONTRACTOR NAME: PHONE:

AUTHORITIES HAVING JURISDICTION

BUILDING: ZONING: UTILITY:

DESIGN SPECIFICATIONS

OCCUPANCY: CONSTRUCTION: SINGLE-FAMILY ZONING: RESIDENTIAL GROUND SNOW LOAD: 15 PSF WIND EXPOSURE: R WIND SPEED: 115 MPH

BUILDING: ELECTRICAL: FIRE:

G

JENNIFER POTENZANO

ANDREW O'DONNELL 704-525-6767

RENU ENERGY SOLUTIONS, LLC 704-525-6767

HARNETT COUNTY HARNETT COUNTY DUKE ENERGY CAROLINAS

APPLICABLE CODES & STANDARDS

IBC 2015, IRC 2015 NEC 2017 IFC 2015



CONTRACTOR

RENU ENERGY SOLUTIONS, LLC

PHONE: 704-525-6767

ADDRESS: 801 PRESSLEY ROAD SUITE 100 CHARLOTTE, NC 28217

LIC. NO.: 76615 HIC. NO .:

ELE. NO .: 20334U

UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS

NEW PV SYSTEM: 8.76 kWp

POTENZANO RESIDENCE

321 NEILLS CREEK RD LILLINGTON. NC 27546 APN: 0660-84-7959.000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

COVER PAGE

DATE: 12/21/2022

DRAFTED BY: L.J

CHECKED BY: H.E. & D.B.

REVISIONS:

T-001 00

А	B		С		D		E		F			G
2.1.1 2.1.2	<u>SITE NOTES:</u> A LADDER WILL BE IN PLACE FOR REGULATIONS.	INSPECTION IN COMPLIA	NCE WITH OSHA	2.4.9	THROUGH 250.106. II	EXISTING SYSTEM I	OMPLIES WITH NEC 69 IS INACCESSIBLE, OR I IDED ACCORDING TO I		2.7.6	MODULE WIRIN	(WIRE MAY BE FI G SHALL BE LOC/	ATED AND S
2.1.3	THE PV MODULES ARE CONSIDER				AND AHJ.			,	2.7.7		D NEC 200.7, UNG //ARKED AS FOLL	
2.1.4	UTILITY INTERACTIVE SYSTEM WIT THE SOLAR PV INSTALLATION WIL BUILDING ROOF VENTS.			2.4.10 OR			H DC GROUND-FAULT (2) TO REDUCE FIRE I	PROTECTION MEETING HAZARDS		GREEN	E- RED, OR OTHER	
2.1.5	PROPER ACCESS AND WORKING C ELECTRICAL EQUIPMENT WILL BE			2.5.1	INTERCONNECTIO					DC NEGATIV AND G	'E- BLACK, OR OT GREEN	HER COLOR
2.1.6	ROOF COVERINGS SHALL BE DESI	GNED, INSTALLED, AND I	MAINTAINED IN	2.5.2	(B)]	ONNECTION SHALL	BE IN ACCORDANC	E WITH [NEC 705.12	2.7.8		RS COLORED OR	MARKED AS
	ACCORDANCE WITH THIS CODE A INSTRUCTIONS SUCH THAT THE R			2.5.3	THE SUM OF THE U		NVERTER CONTINU			PHASE A OR PHASE B OR	L1- BLACK	IER CONVEN
	BUILDING OR STRUCTURE.			2.5.4			IG [NEC 705.12(B)(2)(3 DWER SOURCE(S) OI				L3- BLUE, YELLO HITE OR GREY	W, ORANGE
2.2.1	EQUIPMENT LOCATIONS:						VERCURRENT DEVIC					
2.2.2 2.2.3	ALL EQUIPMENT SHALL MEET MIN WIRING SYSTEMS INSTALLED IN D			D	BUSBAR, PV DEDIC	ATED BACKFEED B	REAKERS MUST BE	LOCATED OPPOSITE			TA CONNECTED	
	OPERATING TEMPERATURE AS SP 310.15 (B)(2)(A) AND 310.15 (B)(3)(C	PECIFIED BY NEC 690.31 (2.5.5			SOURCE OCPD [NEC RCES OUTPUT COME	705.12(B)(2)(3)]. BINER PANEL, TOTAL				
2.2.3	JUNCTION AND PULL BOXES PERM		R PV MODULES	2.0.0	RATING OF ALL OV	ERCURRENT DEVIC	ES SHALL NOT EXC	EED AMPACITY OF				
2.2.4	ACCORDING TO NEC 690.34. ADDITIONAL AC DISCONNECT(S) S		ERE THE INVERTER IS NO	т	BUSBAR. HOWEVE EXCLUDED ACCOR		OVERCURRENT DEV 2 (B)(2)(3)(C)	ICE MAY BE				
	WITHIN SIGHT OF THE AC SERVICI	ING DISCONNECT.		2.5.6	FEEDER TAP INTER		SIDE) ACCORDING	TO NEC 705.12				
2.2.5	ALL EQUIPMENT SHALL BE INSTAL ACCORDING TO NEC APPLICABLE	CODES.		2.5.7	(B)(2)(1) SUPPLY SIDE TAP	NTERCONNECTION	ACCORDING TO NE	C 705.12 (A) WITH				
2.2.6	ALL COMPONENTS ARE LISTED FO USAGE WHEN APPROPRIATE.	OR THEIR PURPOSE AND	RATED FOR OUTDOOR		SERVICE ENTRANC	E CONDUCTORS IN	ACCORDANCE WIT	H NEC 230.42	-			
0.0.4				2.5.8	FROM ADDITIONAL			S OUTPUT IS EXEMPT				
2.3.1 2.3.2	STRUCTURAL NOTES: RACKING SYSTEM & PV ARRAY	WILL BE INSTALLED AC	CORDING TO	2.6.1			T PROTECTION NOT	E6.				
	CODE-COMPLIANT INSTALLATIO DESIGNATED SPACE BETWEEN			262				WHEN THE SWITCH				
	MINIMUM DISTANCE BEYOND E			N Contraction of the second se			NING ENERGIZED AF (TYPICALLY THE UP					
2.3.3	ACCORDING TO RAIL MANUFAC JUNCTION BOX WILL BE INSTAL			2.6.3	DISCONNECTS TO	BE ACCESSIBLE TO	QUALIFIED UTILITY					
2.0.0	IF ROOF-PENETRATING TYPE, I			2.6.4	LOCKABLE, AND BE		SWITCH. INDUCTORS ARE UN	GROUNDED				
2.3.4	REQUIREMENTS. ROOFTOP PENETRATIONS FOR	PV RACEWAY WILL BE	COMPLETED AND	2.0.1	THEREFORE BOTH	MUST OPEN WHEF	RE A DISCONNECT IS					
	SEALED W/ APPROVED CHEI			2.6.5	ACCORDING TO NE		DISCONNECTING ME	ANS SHALL BE				
2.3.5	CONTRACTOR. ALL PV RELATED ROOF ATTACH	HMENTS TO BE SPACE	D NO GREATER THAN 1	THE			TO EQUIPMENT AT A					
2.3.6	SPAN DISTANCE SPECIFIED BY WHEN POSSIBLE, ALL PV RELA						SHALL BE PERMITTE	THE EQUIPMENT. AN ED TO BE REMOTE				
2.3.0	STAGGERED AMONGST THE RO						QUIPMENT DISCONN	VECTING MEANS CAN				
2.4.1	GROUNDING NOTES:				ACCORDING TO NE							
2.4.2	GROUNDING SYSTEM COMPONEN			2.6.6			OR IN BUILDINGS SH DUCE SHOCK HAZARI					
	GROUNDING DEVISES EXPOSED T USE.	O THE ELEMENTS SHALL	BE RATED FOR SUCH		RESPONDERS IN A	CCORDANCE WITH	690.12(A) THROUGH	(D)				
2.4.3	PV SYSTEMS REQUIRE AN EQUIPM ELECTRICAL EQUIPMENT AND STR			2.6.7 N	ALL OCPD RATING AND 240.	S AND TYPES SPEC	IFIED ACCORDING T	O NEC 690.8, 690.9,				
	ACCORDANCE WITH 250.134 OR 25			2.6.8			NDUCTORS ARE UN					
2.4.4	UNGROUNDED. PV EQUIPMENT SHALL BE GROUNI	DED ACCORDING TO NEC	690.43 AND MINIMUM		NEC 240.21. (SEE E		JRRENT PROTECTIC 390.9)	IN, ACCORDING TO				
2.4.5	NEC TABLE 250.122. METAL PARTS OF MODULE FRAME	S. MODULE RACKING. AN	ND ENCLOSURE	2.6.9		HJ, SYSTEM WILL IN C 690.11 AND UL16		CIRCUIT PROTECTION	١			
2.4.6	CONSIDERED GROUNDED IN ACCO EACH MODULE WILL BE GROUNDE	ORD WITH 250.134 AND 25	50.136(A).									
2.4.0	MANUFACTURER DOCUMENTATIO			2.7.1 2.7.2	WIRING & CONDUI ALL CONDUIT AND		ED AND APPROVED	FOR THEIR PURPOSE	:			
	NOT USED, MODULE GROUNDING GROUNDING LUG HOLES PER THE				CONDUIT AND WIR	E SPECIFICATIONS	ARE BASED ON MIN	IMUM CODE				
2.4.7	REQUIREMENTS. THE GROUNDING CONNECTION TO			2.7.3			T TO LIMIT UP-SIZING G TO NEC 690.8, NEC					
2.4.7	THE REMOVAL OF A MODULE DOE			0 2.7.4	EXPOSED PV SOUP	RCE CIRCUITS AND	OUTPUT CIRCUITS S	SHALL USE WIRE				
2.4.8	ANOTHER MODULE. GROUNDING AND BONDING COND	UCTORS, IF INSULATED.	SHALL BE COLORED				LTAIC (PV) WIRE [690 FED FOR USE ON PV					
-	GREEN OR MARKED GREEN IF #4 /				ACCORDING TO NE	EC 690.31 (A).						

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ARKED WHITE [NEC 200.6 (A)(6)]. ND SECURED UNDER THE ARRAY. DED SYSTEMS DC CONDUCTORS

R EXCLUDING WHITE, GREY AND

DLOR EXCLUDING WHITE, GREY

ED AS FOLLOWS:

NVENTION IF THREE PHASE ANGE*, OR OTHER CONVENTION

MS THE PHASE WITH HIGHER VOLTAGE



CONTRACTOR

RENU ENERGY SOLUTIONS, LLC

PHONE: 704-525-6767

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LIC. NO.: 76615 HIC. NO.:

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NEW PV SYSTEM: 8.76 kWp

POTENZANO RESIDENCE

321 NEILLS CREEK RD LILLINGTON, NC 27546 APN: 0660-84-7959.000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

NOTES

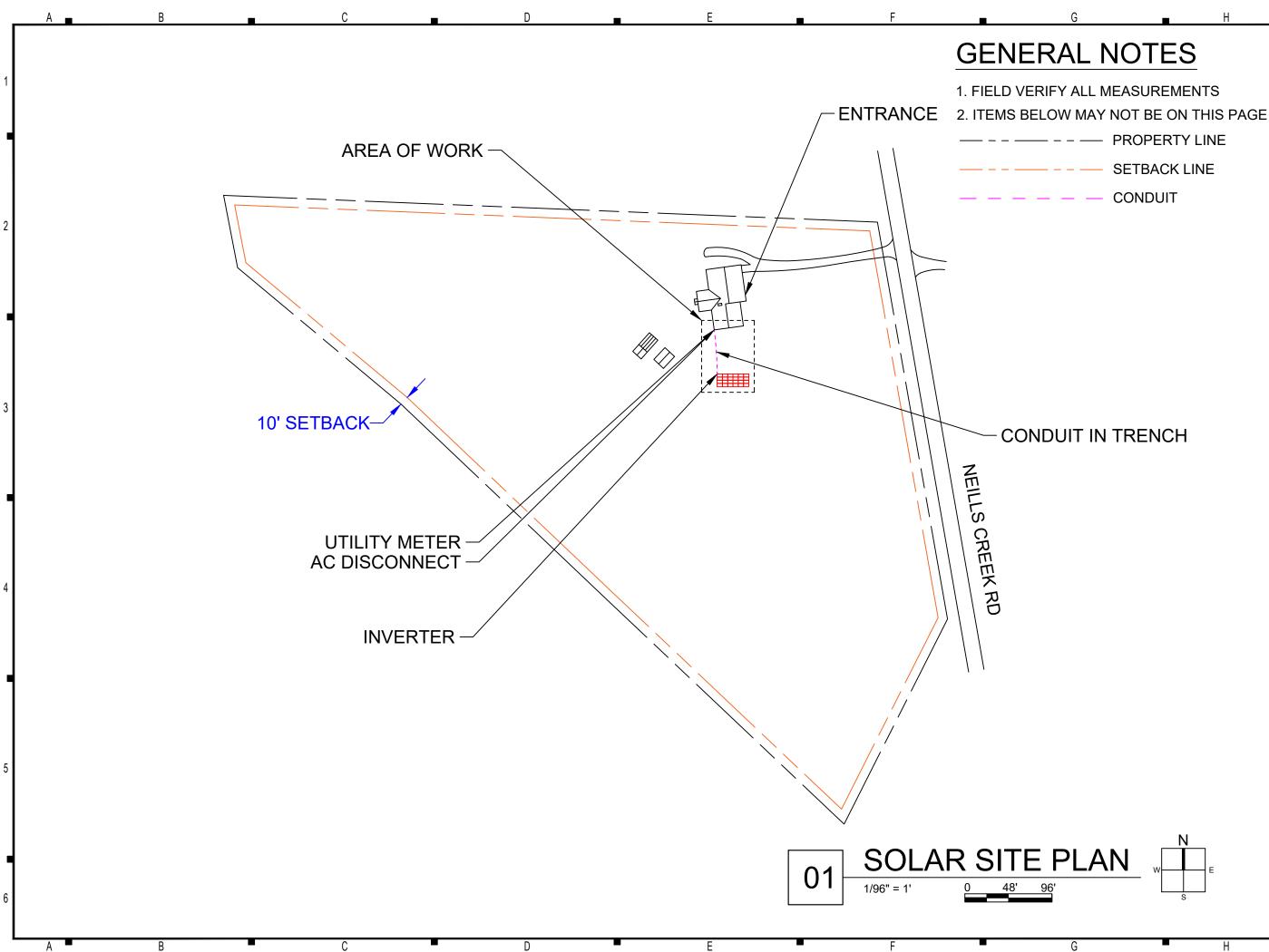
DATE: 12/21/2022

DRAFTED BY: L.J.

CHECKED BY: H.E. & D.B.

REVISIONS:

 $G{-}001.00_{\scriptscriptstyle (SHEET\,2)}$



- 1. FIELD VERIFY ALL MEASUREMENTS

Н

- ---- PROPERTY LINE
- SETBACK LINE
- CONDUIT

CONDUIT IN TRENCH

CONTRACTOR

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SITE PLAN

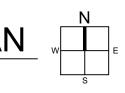
DATE: 12/21/2022

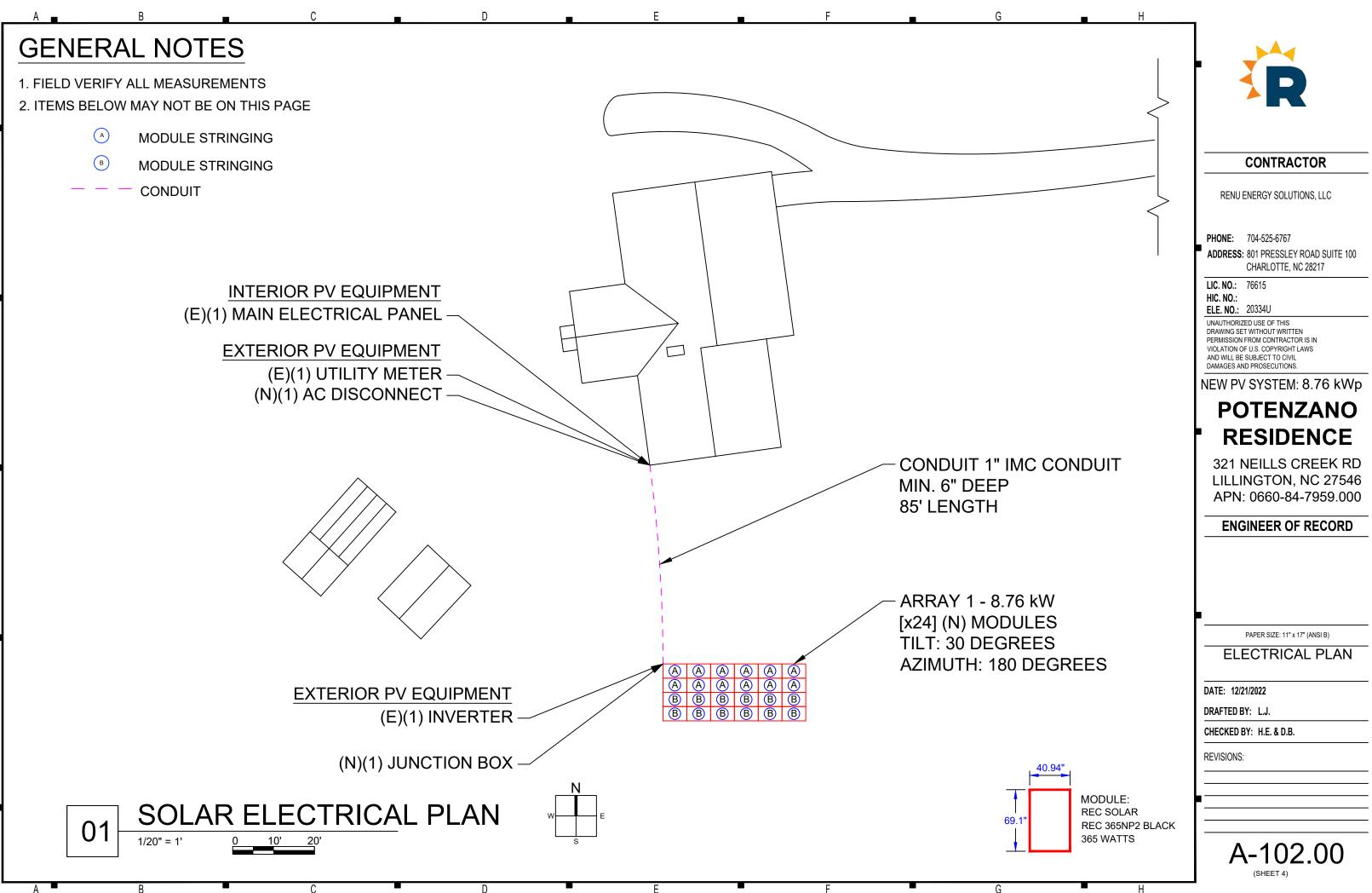
DRAFTED BY: L.J.

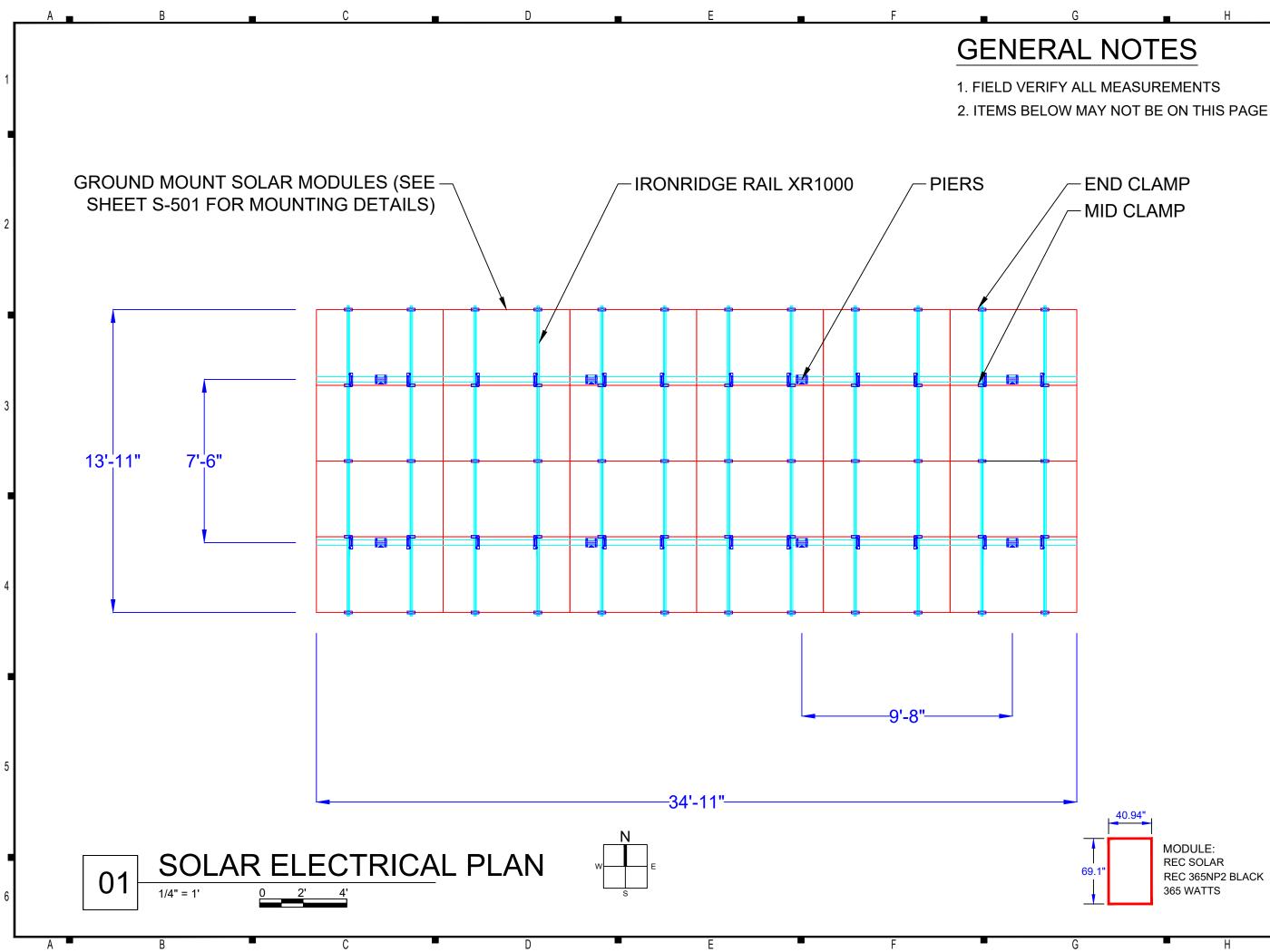
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REVISIONS:

A-101.00 (SHEET 3)







Н

END CLAMP - MID CLAMP



CONTRACTOR

RENU ENERGY SOLUTIONS, LLC

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321 NEILLS CREEK RD LILLINGTON, NC 27546 APN: 0660-84-7959.000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

SOLAR ATTACHMENT PLAN

DATE: 12/21/2022

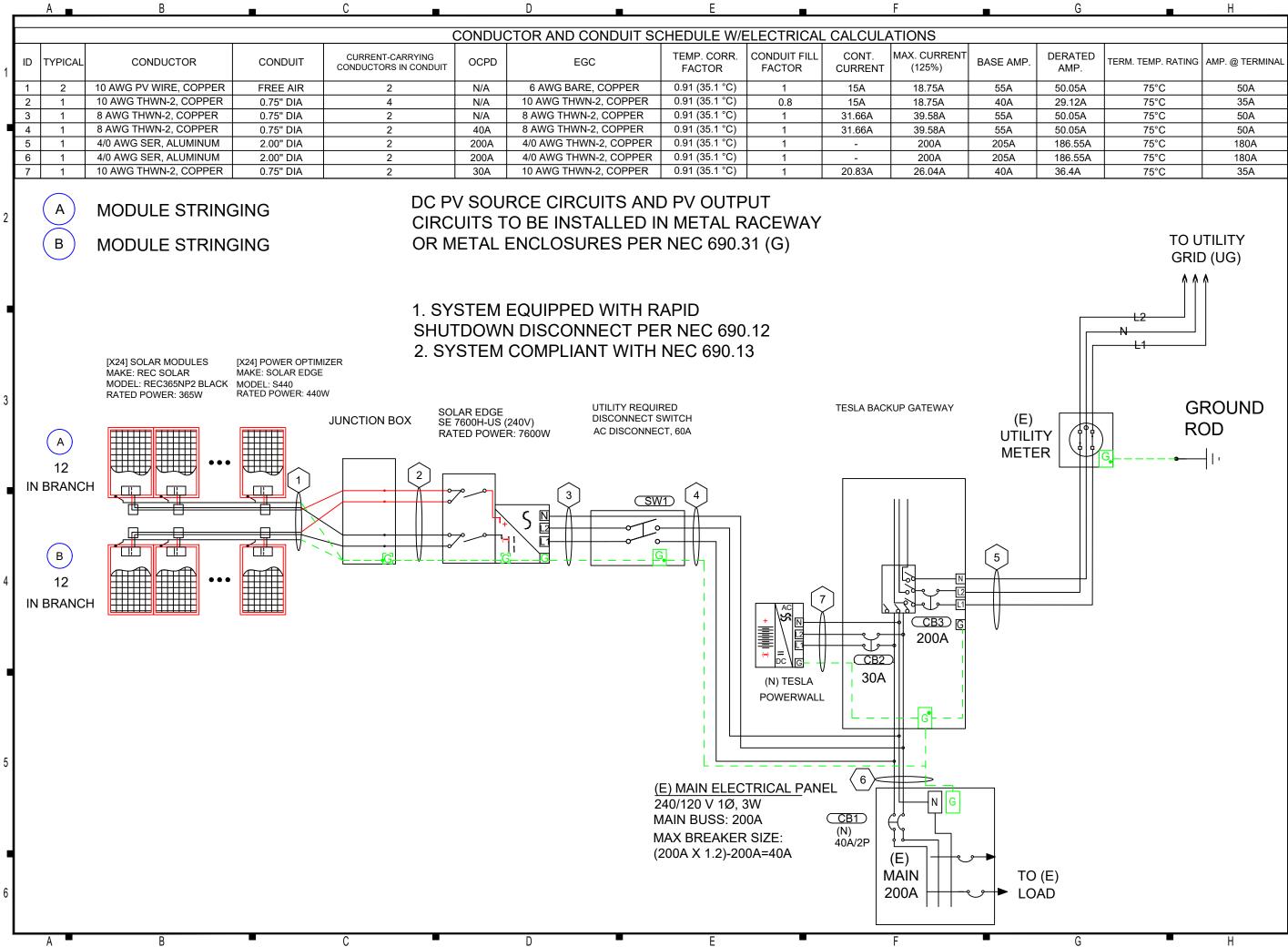
DRAFTED BY: L.J.

CHECKED BY: H.E. & D.B.

REVISIONS:



MODULE: REC SOLAR REC 365NP2 BLACK 365 WATTS



		H	-
D	TERM. TEMP. RATING	AMP. @ TERMINAL	•
	75°C	50A	
	75°C	35A	
	75°C	50A	
	75°C	50A	
4	75°C	180A	
4	75°C	180A	
	75°C	35A	



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ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

LINE DIAGRAM

DATE: 12/21/2022

DRAFTED BY: L.J.

CHECKED BY: H.E. & D.B.

REVISIONS:

E-601.00

	A 🔳 B	C			D		E E			F				G		Н
	SYSTEM SUMMARY				MODULES											
		INVERTER #1			REF.	QTY.	MAKE AND MODE	L	PMAX	(PTC	ISC	IMP	VOC	VMP TE	MP. COEFF. OF VO	FUSE RATING
1		STRING #1	STRING #2		PM1-24	24	REC SOLAR REC365NP2	2 BLACK	365W	343.7W	11.36A	10.65A	40.9V	34.3V -0.	106V/°C (-0.26%/°C)	25A
	POWERBOX MAX OUTPUT CURRENT	15A	15A													
	OPTIMIZERS IN SERIES	12	12								700					
	NOMINAL STRING VOLTAGE	380V	380V					<u> </u>	POWER			_				
	ARRAY OPERATING CURRENT	15A	15A		REF.	QTY.	MODEL					1			DLTAGE WEIGHT	
	ARRAY STC POWER	8,76	W		PO1-24	24	SOLAR EDGE S440	44	0W	15 <i>A</i>	۱	14	.5A	60V		98.6%
	ARRAY PTC POWER	8,24	8.8W													
	MAX AC CURRENT	31.0	66A						INVE	ERTERS						
	MAX AC POWER	7,60	W00		DEE				10			RATED M	AX OUTPU	T MAX INPL	JT MAX INPUT	EC WEIGHTED
	DERATED (CEC) AC POWER	7,60	W00		REF.	QTY.	MAKE AND MODEL	,	VOLTAGE		ATING P	OWER	CURRENT	CURREN	NT VOLTAGE	EFFICIENCY
2					1	1	SOLAR EDGE SE7600H-US	(240V)	240V FL	OATING	40A 7	7600W	32A	20A	480V	99.0%
4	5500															

	DESIGN TEMPERATURES			
ASHRAE EXTREME LOW	-11.1°C (12.0°F), SOURCE: HARNETT COUNTY (35.38°;-78.73°)			DISCONNE
ASHRAE 2% HIGH	37.1°C (98.8°F), SOURCE: HARNETT COUNTY (35.38°;-78.73°)	REF.	QTY.	MAKE AND MODEL
		C\//1	1	

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	DISCONNECTS						OCPDS	
REF.	QTY.	MAKE AND MODEL	RATED CURRENT	MAX RATED VOLTAGE	REF.	QTY.	RATED CURRENT	MAX VOLTAGE
SW1	1	EATON DG22XXRB OR EQUIV.	60A	240VAC	CB1	1	40A	240VAC
					CB2	1	30A	240VAC
					CB3	1	200A	240VAC

F



CONTRACTOR

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ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

DESIGN TABLES

DATE: 12/21/2022

DRAFTED BY: L.J.

CHECKED BY: H.E. & D.B.

REVISIONS:

E-602.00 (SHEET 7)

G

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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

LABEL 1

AT RAPID SHUTDOWN SYSTEM [NEC 690.56(C)(1)(A)].

LABEL 3

AT POINT OF INTERCONNECTION; LABEL, SUCH AS LABEL 4 OR LABEL 5 MUST IDENTIFY PHOTOVOLTAIC SYSTEM [NEC 705.12(B)(4)]

WARNING DUAL POWER SUPPLY SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL 6

LABEL 8

OR FLOORS.

REFLECTIVE

C

R

[IFC 605.11.1.1]

[NEC 690.31(G)]

AT POINT OF INTERCONNECTION; LABEL, SUCH AS LABEL 4 OR LABEL 5 MUST IDENTIFY PHOTOVOLTAIC SYSTEM [NEC 705.12(B)(4)]

WARNING: PHOTOVOLTAIC

POWER SOURCE

AT EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING

METHODS: SPACED AT MAXIMUM 10 FT SECTION OR WHERE

SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS,

LETTERS AT LEAST 3/8 INCH: WHITE ON RED BACKGROUND:

WARNING ELECTRIC SHOCK HAZARD

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

LABEL 2 AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT [NEC 690.15]

ALL SIGNAGE MUST BE PERMANENTLY ATTACHED AND BE WEATHER RESISTANT/SUNLIGHT RESISTANT AND CANNOT BE HAND-WRITTEN PER NEC 110.21(B)

PHOTOVOLTAIC SYSTEM DC DISCONNECT A OPERATING VOLTAGE: 240 VDC OPERATING CURRENT: 31.66 A

MAX SYSTEM VOLTAGE: 480 VDC SHORT CIRCUIT CURRENT: 45 A CHARGE CONTROLLER MAX: N/A

LABEL 4 AT EACH DC DISCONNECTING MEANS [NEC 690.53]



LABEL 7

AT POINT OF INTERCONNECTION; LABEL, SUCH AS LABEL 4 OR LABEL 5 MUST IDENTIFY PHOTOVOLTAIC SYSTEM [NEC 705.12(B)(4)]

PHOTOVOLTAIC SYSTEM

RATED AC OUTPUT CURRENT: 31.66A AC NOMINAL OPERATING VOLTAGE: 240/480 V AC

LABEL 5

AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT [NEC 690.15]

RAPID SHUTDOWN PV ARRAY

LABEL 8 AT RAPID SHUTDOWN SWITCH

InterferenceSame Locatio[NEC 690.56(C)].SAME LOCATIOLETTERS AT LEAST 3/8 INCH; WHITE ON RED[NEC 690.56(B)]BACKGROUND; REFLECTIVEWHERE THE PV[IFC 605.11.1.1]ARE REMOTEL'

THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS IF NOT IN THE SAME LOCATION WHERE THE PV SYSTEMS ARE REMOTELY LOCATED FROM EACH OTHER, A DIRECTORY IN ACCORDANCE WITH 705.10 SHALL BE PROVIDED AT EACH PV SYSTEM DISCONNECTING MEANS. PV SYSTEM EQUIPMENT AND DISCONNECTING MEANS SHALL NOT BE INSTALLED IN BATHROOMS [NEC 690.4(D),(E)]

G

DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING

LABELING NOTES 1.1 LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRICAL CODE, INTERNATIONAL FIRE CODE 605.11, OSHA STANDARD 1910.145, ANSI Z535 1.2 MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. 1.3 LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. 1.4 LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED.

1.5 ALERTING WORDS TO BE COLOR CODED. "DANGER" WILL HAVE RED BACKGROUND; "WARNING" WILL HAVE ORANGE BACKGROUND; "CAUTION" WILL HAVE YELLOW BACKGROUND. [ANSI Z535]



CONTRACTOR

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PAPER SIZE: 11" x 17" (ANSI B)

PLACARDS

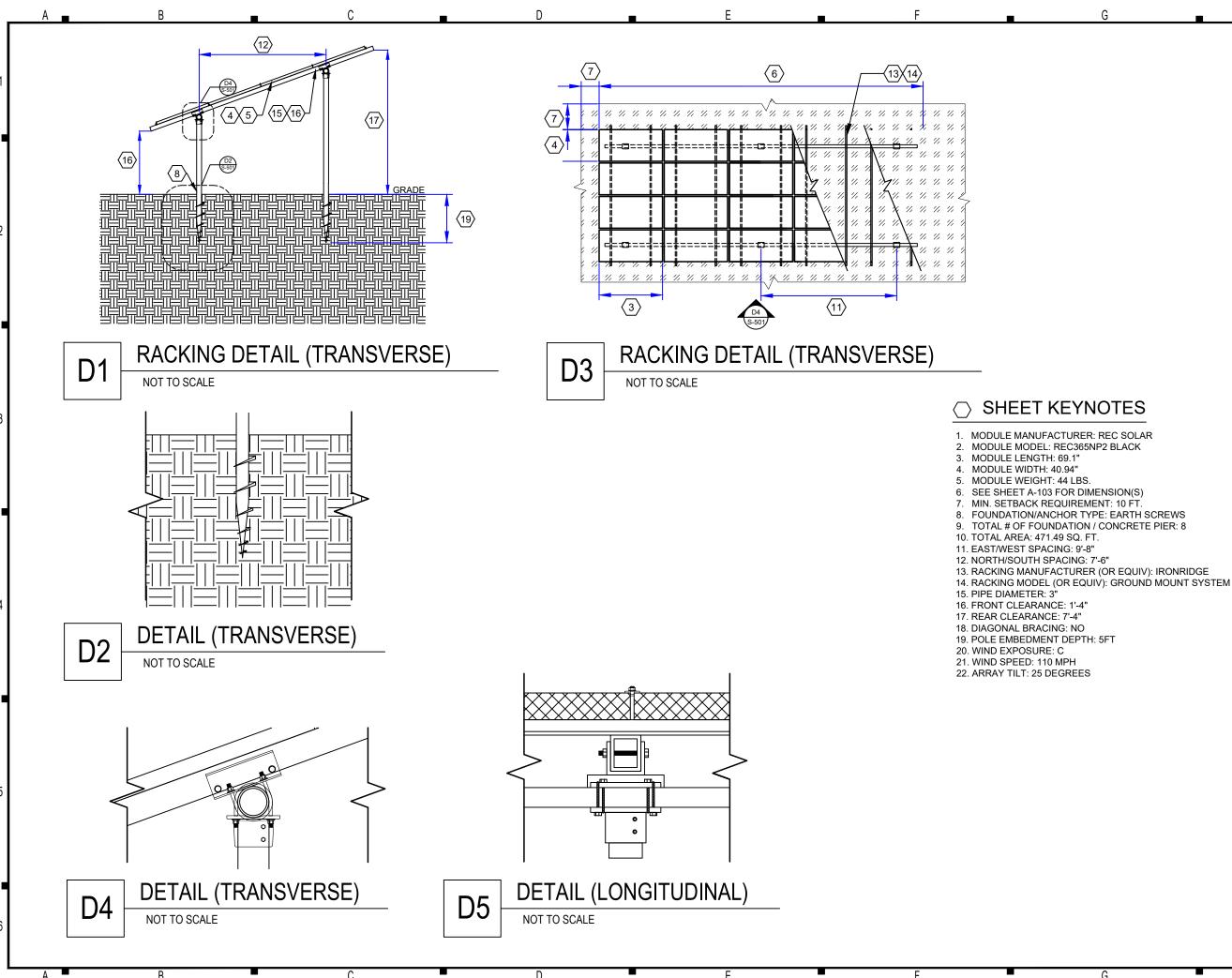
DATE: 12/21/2022

DRAFTED BY: L.J.

CHECKED BY: H.E. & D.B.

REVISIONS:

E-603.00





CONTRACTOR

RENU ENERGY SOLUTIONS, LLC

PHONE: 704-525-6767

ADDRESS: 801 PRESSLEY ROAD SUITE 100 CHARLOTTE, NC 28217

LIC. NO.: 76615 HIC. NO.:

ELE. NO .: 20334U

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NEW PV SYSTEM: 8.76 kWp

POTENZANO RESIDENCE

321 NEILLS CREEK RD LILLINGTON, NC 27546 APN: 0660-84-7959.000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

ASSEMBLY DETAILS

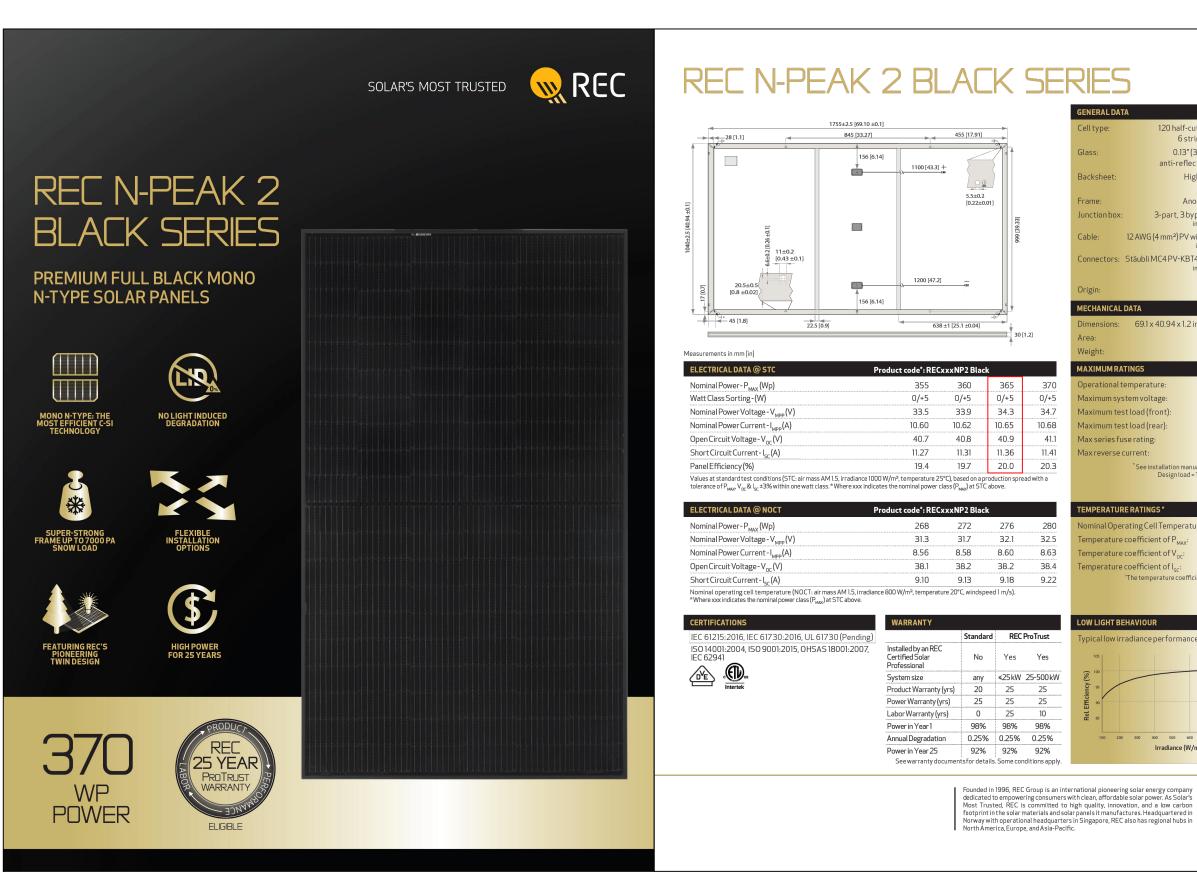
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CHECKED BY: H.E. & D.B.

REVISIONS:

S-501.00 (SHEET 9)



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B

C



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ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

RESOURCE DOCUMENT

DATE: 12/21/2022

DRAFTED BY: L.J.

CHECKED BY: H.E. & D.B.

REVISIONS:

R-001.00 (SHEET 10)

120 half-cut mono c-Si n-type cells 6 strings of 20 cells in series 0.13" (3.2 mm) solar glass with anti-reflection surface treatment Highly resistant polymeric construction (black) Anodized aluminum (black)

3-part, 3 bypass diodes, IP68 rated in accordance with IEC 62790

12 AWG (4 mm²) PV wire, 43 + 47" (1.1 m + 1.2 m) in accordance with EN 50618

Connectors: Stäubli MC4 PV-KBT4/KST4, 12 AWG(4 mm²) in accordance with IEC 62852 IP68 only when connected

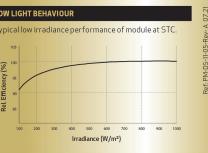
Made in Singapore

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69.1 x 40.94 x 1.2 in (1755 x 1040 x 30 mm) 19.70 sq ft (1.83 m²) 44.0 lbs (20.0 kg)

GS	
perature:	-40+85°C
n voltage:	1000 V
ad (front):	+7000 Pa (146 psf)*
ad (rear):	-4000 Pa (83.5 psf)*
ating:	25 A
ent:	25 A
	ual for mounting instructions.

ATINGS*	
ing Cell Temperature:	44.3°C(±2°C)
efficient of P _{MAX} :	-0.34%/°C
efficient of V _{oc} :	-0.26%/°C
efficient of I _{sc} :	0.04 %/°C
a tomporaturo coofficiente etat	od ano linoar valuer





Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US



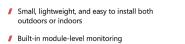
solar.etge ...HD.

Optimized installation with HD-Wave technology

- / Specifically designed to work with power optimizers / UL1741 SA certified, for CPUC Rule 21 grid compliance
- Record-breaking 99% weighted efficiency
- Øuick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for longer strings
- / Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12

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solaredge.com



12-25

- / Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)
 - solaredge

C

INVERTERS

/ Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER			SE	ххххн-ххххх	3XX4			
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	~	~	~	~	~	~	~	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	~		4		-	×	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5%				Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
Power Factor			1	Adjustable - 0.85 to	0.85			
GFDI Threshold				1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded				Yes				
Maximum Input Voltage				480				Vd
Nominal DC Input Voltage			380			400		Vd
Maximum Input Current @240V ^{ra}	8.5	10.5	13.5	16.5	20	27	30.5	Ad
Maximum Input Current @208V ⁽²⁾	-	9	×	13.5	-	-	27	Ad
Max. Input Short Circuit Current				45				Ad
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600ka Sensitivity				
Maximum Inverter Efficiency	99			g	19.2			%
CEC Weighted Efficiency				99			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W

For other regional settings please contact SolarEdge support
 A higher current source may be used; the inverter will limit its input current to the values

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/ Single Phase Inverter with HD-Wave Technology for North America

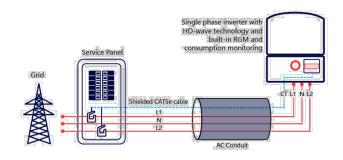
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000			
ADDITIONAL FEATURES							
Supported Communication Interfaces			RS485, Ethernet,	ZigBee (op			
Revenue Grade Metering, ANSI C12.20				0.1			
Consumption metering				Option			
Inverter Commissioning		With the SetA	op mobile applicatio	n using Buil			
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12		Automatic Rapid Shutdown					
STANDARD COMPLIANCE							
Safety		UL1741, U	L1741 SA, UL1699B, (CSA C22.2,			
Grid Connection Standards			IEEE	1547, Rule 2			
Emissions				FCC Part 15			
INSTALLATION SPECIFICAT	IONS						
AC Output Conduit Size / AWG Range		1"	Maximum / 14-6 AV	VG			
DC Input Conduit Size / # of Strings / AWG Range		1" Maxir	num / 1-2 strings / 14	1-6 AWG			
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 / 450 x 37	0 x 174			
Weight with Safety Switch	22	/ 10	25.1 / 11.4				
Noise		<	25				
Cooling				Natural Co			
Operating Temperature Range			-40	to +140 / -			
Protection Rating			NEMA 4)	(Inverter v			

uld be ordered separately. SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units | power up to at leas: 50°C / 122°F; for power de-rating information refer to: https://ww

How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service eowners will gain full insight into their household energy usage helping them to avoid high electricity bills



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DH-US SE7600H-US SE10000H-US ptional), Cellular (op ilt-in Wi-Fi Aco upon AC Grid Disconnect Canadian AFCI according to T.I.L. M-0 21. Rule 14 (HI) 15 Class B I" Maximum / 1-3 strings / 14-6 AWG 21.3 x 14.6 x 7.3 / 540 x 370 x 185 26.2 / 11.9 lb / kg dBA 38.8 / 17.6 onvection -40 to +60⁽⁴⁾ *F / *C with Safety Switch

ator P/NF SEv temperature-derating-not

RoHS

PHONE: 704-525-6767

ADDRESS: 801 PRESSLEY ROAD SUITE 100 CHARLOTTE, NC 28217

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CHECKED BY: H.E. & D.B.

REVISIONS:

R-002.00 (SHEET 11)

Power Optimizer For Residential Installations

S440, S500, S500B



POWER OPTIMIZER

Enabling PV power optimization at the module level

C

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- / Flexible system design for maximum space utilization
- / Compatible with bifacial PV modules

/ Power Optimizer For Residential Installations

S440, S500, S500B

	S440	S500	S5	
Rated Input DC Power ⁽¹⁾	440		500	
Absolute Maximum Input Voltage (Voc)	60			
MPPT Operating Range	8 - 60		12.5	
Maximum Short Circuit Current (lsc) of Connected PV Module	14.5		15	
Maximum Efficiency		99.5		
Weighted Efficiency		98.6		
Overvoltage Category		Ш		
OUTPUT DURING OPERATION				
Maximum Output Current		15		
Maximum Output Voltage	60			
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED FROM INV	ERTER OR INVERT	ER OFF)	
Safety Output Voltage per Power Optimizer		1 +/- 0.1		
STANDARD COMPLIANCE				
EMC	FCC Part 15 Class B, IE	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-550		
Safety	IEC62109-1 (class II safety), UL1741			
Material	UL94 V-0, UV Resistant			
RoHS	Yes			
Fire Safety	VDE-AR-E 2100-712:2013-05			
INSTALLATION SPECIFICATIONS				
Maximum Allowed System Voltage		1000		
Dimensions (W x L x H)	129 x 155 x	30	129 x	
Weight (including cables)		655		
Input Connector		MC4 ⁽²⁾		
Input Wire Length	0.1			
Output Connector	MC4			
Output Wire Length	(+) 2.3, (-) 0.10			
Operating Temperature Range ⁽³⁾		-40 to +85		
Protection Rating	IP68			
Relative Humidity	0 - 100			

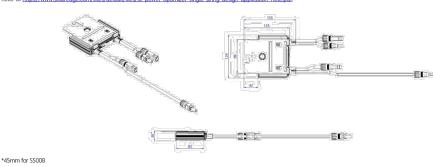
(1) Rated power of the module at STC will not exceed the Power Optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allow (2) For other connector types please contact SolarEdge.

(3) For ambient temperature above +70°C pow	er de-rating is applied. Refer to Power Optimize	rs Temperature De-Rating Technical Note for details.

PV System Design Usi Inverter ⁽⁴⁾	ing a SolarEdge	Single Phase HD-Wave	Three Phase SExxK-RWB	Three Phase for 230/400V Grid	Three Phase for 277/480V Grid	
Minimum String Length	S440, S500	8	9	16	18	
(Power Optimizers)	S500B	6	8		14	
Maximum String Length (P	ower Optimizers	25	20	50		
Maximum Continuous Pow	er per String	5700	5625	11250 12750		W
Maximum Allowed Connec (Permitted only when the p strings is less than 2,000W)	ower difference between	See ⁽⁵⁾	See ⁽⁵⁾	13500	15000	w
Parallel Strings of Different	Lengths or Orientations			Yes		

(4) It is not allowed to mix S-series and P-series Power Optimizers in new installations.

(5) If the inverter's rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DCpow Refer to <u>https://www.solaredge.com/sites/default/files/ee-power-optimizer-single-string-design-application-note.pdf</u>.



* Functionality subject to inverter model and firmware version

solaredge.com

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PHONE: 704-525-6767

ADDRESS: 801 PRESSLEY ROAD SUITE 100 CHARLOTTE, NC 28217

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NEW PV SYSTEM: 8.76 kWp

POTENZANO RESIDENCE

321 NEILLS CREEK RD LILLINGTON, NC 27546 APN: 0660-84-7959.000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

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DRAFTED BY: L.J.

CHECKED BY: H.E. & D.B.

REVISIONS:

R-003.00

00B	UNIT
	W
25	Vdc
- 105	Vdc
	Adc
	%
	%
	Adc
80	Adc Vdc
	Vdc
011	
	Vdc
155 x 45	mm
	gr
	m
	m
	°C
	%

<€ RoHS

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Ground Mount System

Datasheet



Mount on all terrains, in no time.

The IronRidge Ground Mount System combines our XR1000 rails with locally-sourced steel pipes, or mechanical tubing, to create a cost-effective structure capable of handling any site or terrain challenge.

Installation is simple with only a few structural components and no drilling, welding, or heavy machinery required. In addition, the system works with a variety of foundation options, including concrete piers and driven piles.



Rugged Construction Engineered steel and aluminum

components ensure durability.



Simple Assembly Just a few simple components and no heavy equipment.



R

Flexible Architecture Multiple foundation and array configuration options.





PE Certified Pre-stamped engineering letters available in most states.

Design Software

Online tool generates engineering values and bill of materials.





20 Year Warranty Twice the protection offered by competitors.

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(SHEET 13)

Jennifer Potenzano (#108108) ground based

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С

Jennifer Potenz ground based

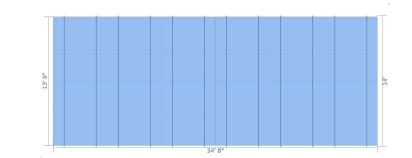
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Project Details			
Name	Jennifer Potenzano	Date	12/12/2022
Location	321 Neills Creek Road, Lillington, NC 27546	ASCE code	7.16
Total modules	24	Wind speed	110 mph
Module	REC Solar: REC365NP2 Black (30mm)	Snow load	10 psf
Dimensions	Dimensions: 69.09" x 40.94" x 1.18" (1755.0mm x 1040.0mm x 30.0mm)	Wind exposure	С
Total watts	8,760 kW	Piers	8

Substructure & Foundation

Tilt	25°	South facing grade	0°
Pipe/tubing diameter	3"	Soil class	2 - 5
Foundation type	Ground screws	Screw length	63"
Freeze thaw depth		Hex head set screws / Screw	4

Sub array #1					
Rows	4	Columns	6	# Arrays	1
Area	34' 8" (EW) × 13' 11" (NS)	Rail type	XR1000	Diagonal bracing	no
E/W spacing	9' 8"	Rail cantilever	2' 10"	Pipe cantilever	2' 10"
Piers/array	8	Total south piers	4 (3' 11")	Total north piers	4 (7' 5")
Total cross pipes	2 (34' 8")	Total pipe length	114' 11"		
Shear	1 138 lbs	Moment	2 845 ft-lbs	Unlift	-1 472 lb



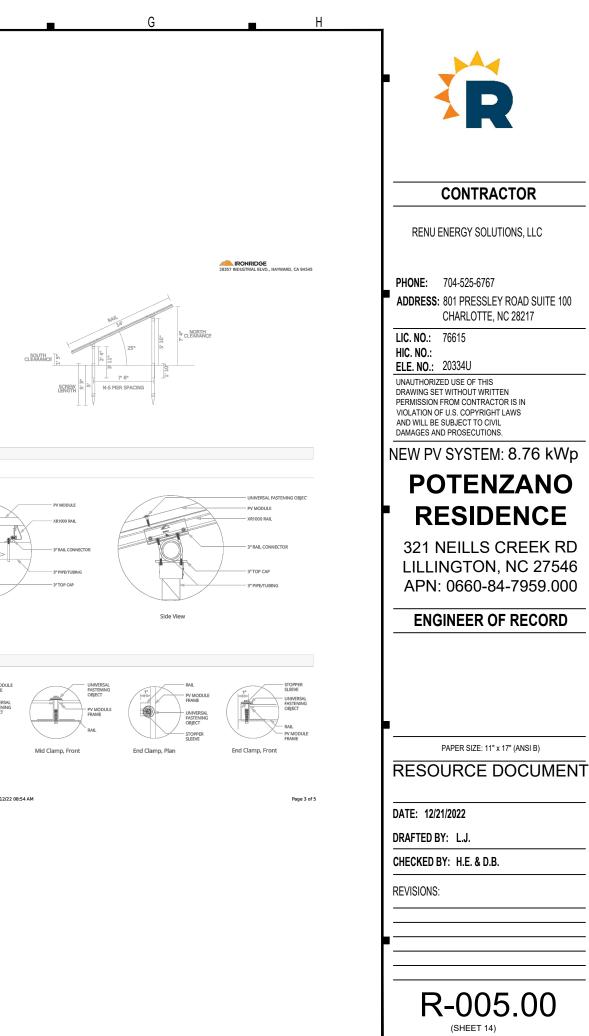
9' 8" E-W PIER SPACING

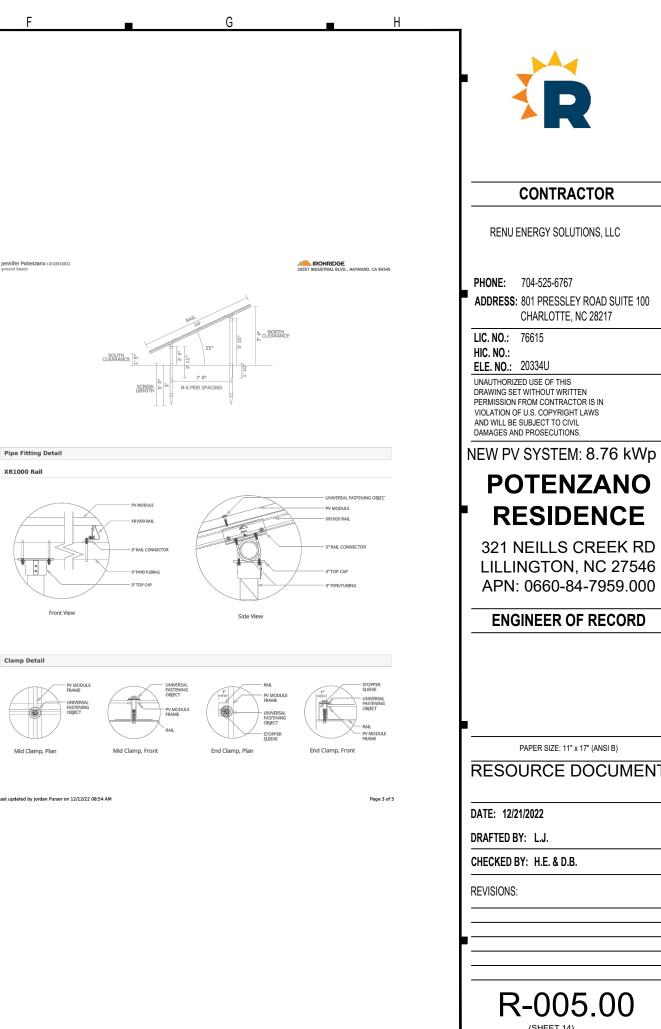
CROSS PIPE LENGTH

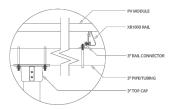
CANTILEVER

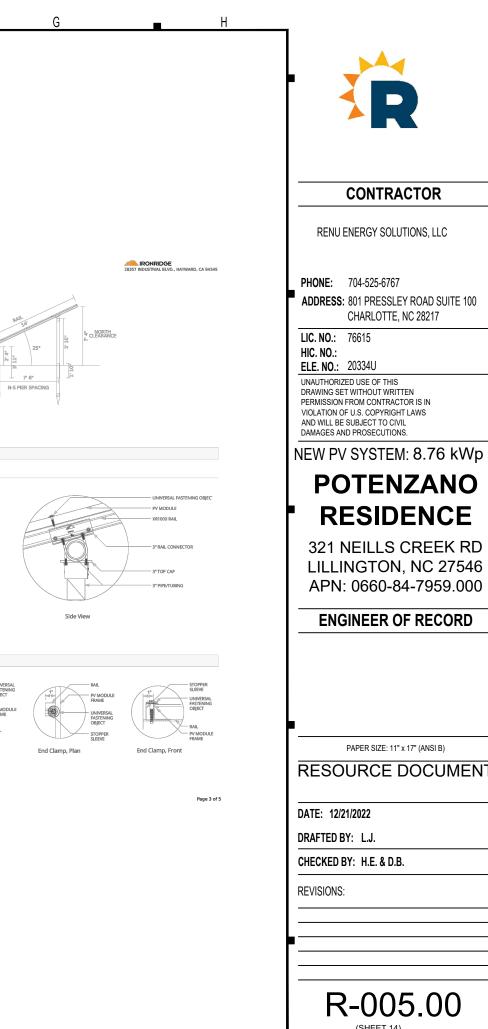
71 6" PIER SPA

- 4

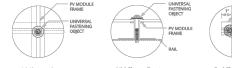












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t updated by Jordan Purser on 12/12/22 08:54 AM

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ed by Jordan Purser on 12/12/22 08:54 AM

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Jennifer Potenzano (#1081081) ground based

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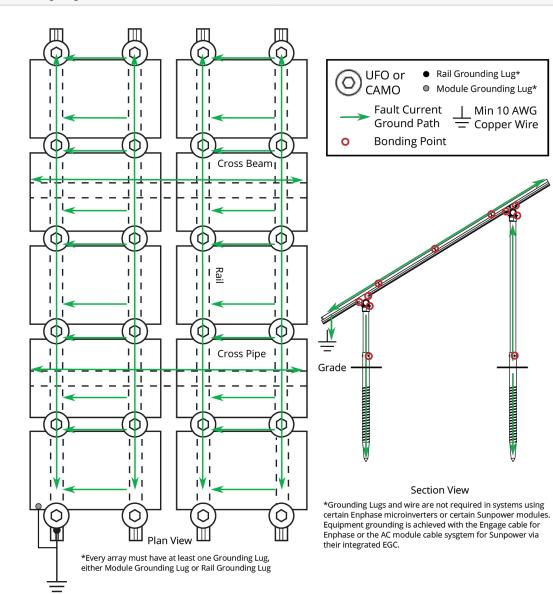
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Grounding Diagram

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Jennifer Potenzano (#1081081) ound ba

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IRONRIDGE 28357 INDUSTRIAL BLVD., HAYWARD, CA 94545

Bill of Materials		
Part	Spares	Tot
Rails		
XR-1000-168A XR1000, Rail 168" (14 Feet) Clear	0	12
Clamps & Grounding		
UFO-CL-01-B1 Universal Module Clamp, Black	0	60
UFO-STP-30MM-B1 Stopper Sleeve, 30MM, Black	0	24
XR-LUG-03-A1 Grounding Lug, Low Profile	0	1
Substructure		
70-0300-SGA SGA Top Cap at 3"	0	8
GM-BRC-003 Ground Mount Bonded Rail Connector - 3"	0	24
GM-HSHW-01-M1 Hex Head Set Screw	0	32
Accessories		
XR-1000-CAP Kit, End Cap XR1000 (10 sets per bag)	0	2
BHW-MI-01-A1 Microinverter/MLPE Bonding Hardware, T-Bolt	0	24

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Last updated by Jordan Purser on 12/12/22 08:54 AM

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IRONRIDGE 28357 INDUSTRIAL BLVD., HAYWARD, CA 94545		R
Tetal Ohi		CONTRACTOR
Total Qty		
12		RENU ENERGY SOLUTIONS, LLC
60		PHONE: 704-525-6767
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1		LIC. NO.: 76615 HIC. NO.:
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		REVISIONS:
Page 5 of 5		
		R-006.00

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(SHEET 15)