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 GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE MICROINVERTER IN ACCORDANCE WITH NEC 690.41(B)
- 1.1.5 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
- 1.1.6 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.1.7 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 [NEC 110.3].
- 1.1.8 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:

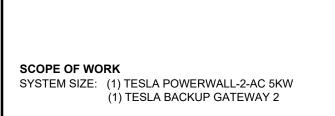
1.3.1 WORK INCLUDES:

1.3.3 PV EQUIPMENT GROUNDING

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.

1.3.2 TESLA BACKUP GATEWAY 2 / TESLA POWERWALL 2AC 5KW

1.3.4 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV



R

MSP UPGRADE: NO

EXISTING PV SYSTEM: 8.76 kWp **NEW BATTERY ADD-ON** POTENZANO RESIDENCE 321 NEILLS CREEK RD LILLINGTON, NC 27546 ASSESSOR'S #: 0660-84-7959.000



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	NELLS CREEK PD



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:

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

AUTHORITIES HAVING JURISDICTION

HARNETT COUNTY HARNETT COUNTY DUKE ENERGY

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

EXISTING PV SYSTEM: 8.76 kWp NEW BATTERY ADD-ON 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

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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			<u></u>	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

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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

ADDRESS: 801 PRESSLEY ROAD SUITE 100 CHARLOTTE, NC 28217

LIC. NO.: 76615 HIC. NO.:

ELE. NO.: 20334U

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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)

NOTES

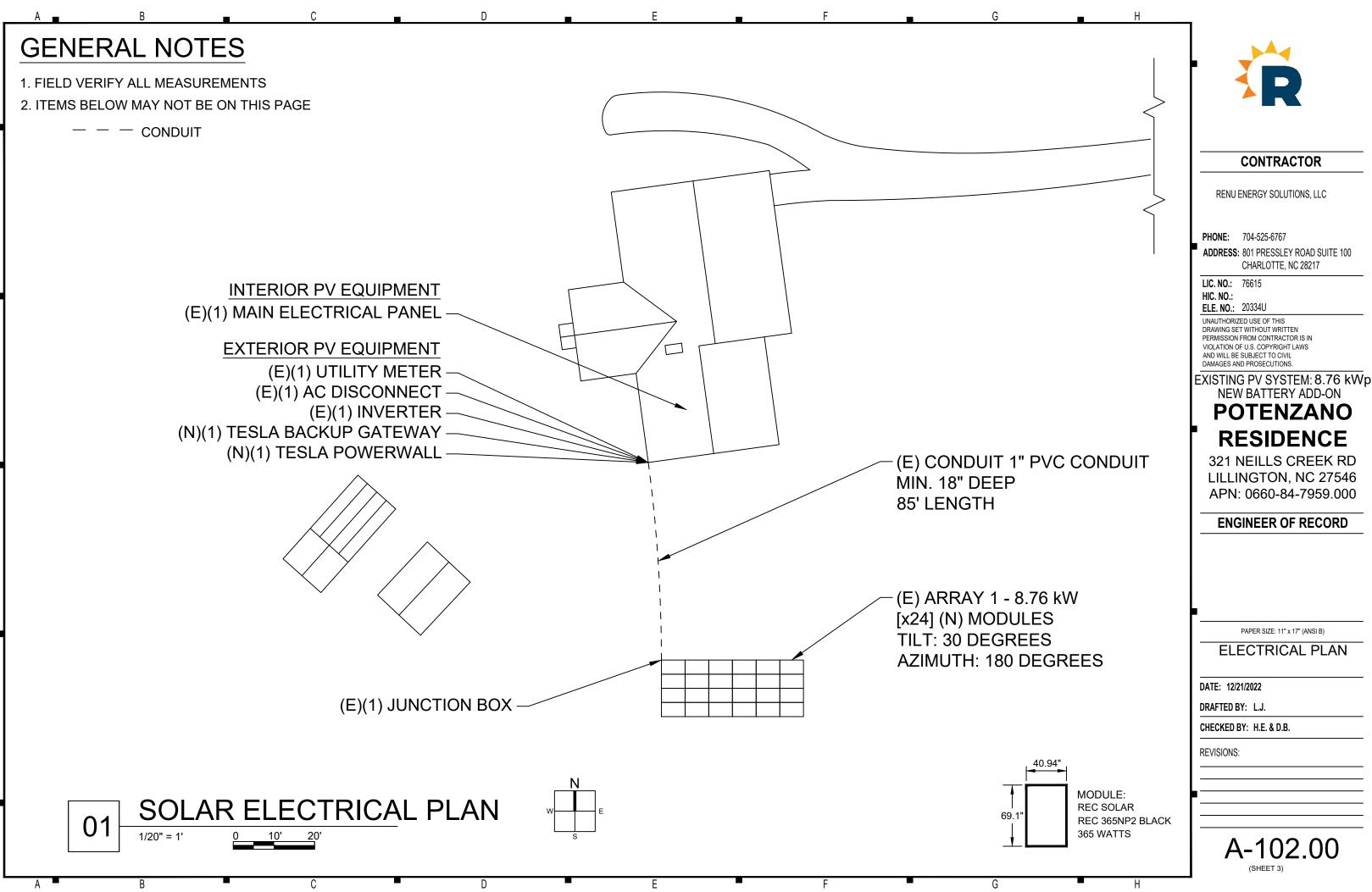
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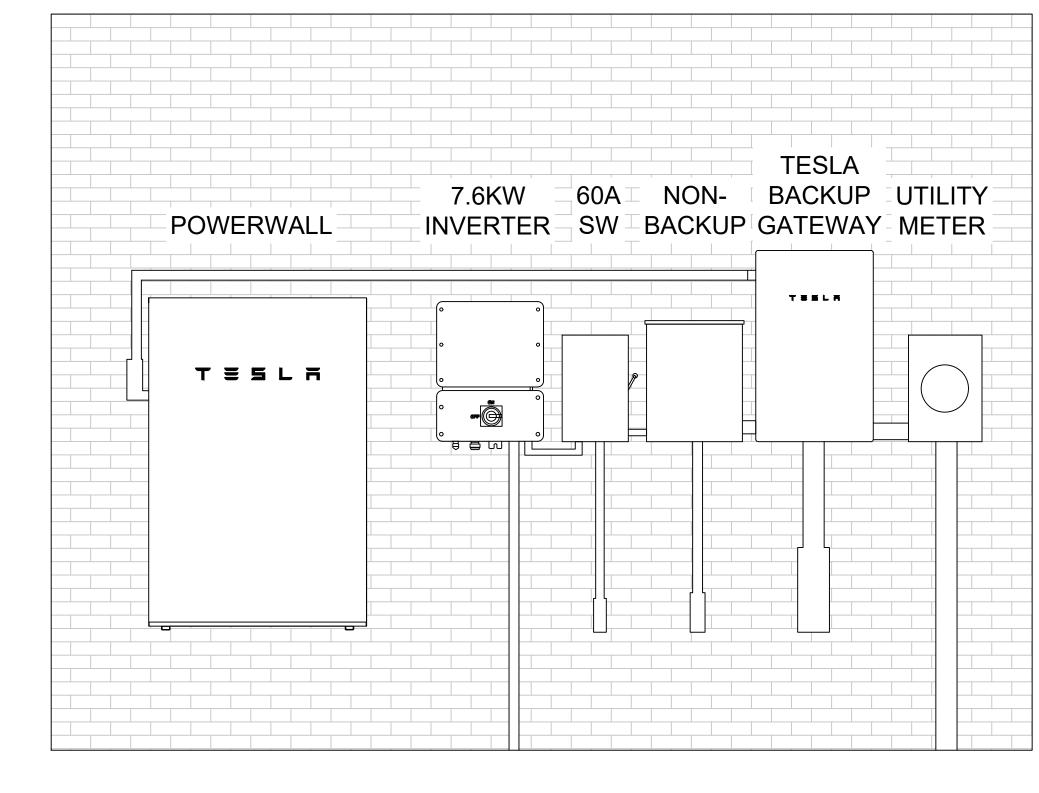


GENERAL NOTES

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1. FIELD VERIFY ALL MEASUREMENTS 2. ITEMS BELOW MAY NOT BE ON THIS PAGE

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ELEC ELEVATION

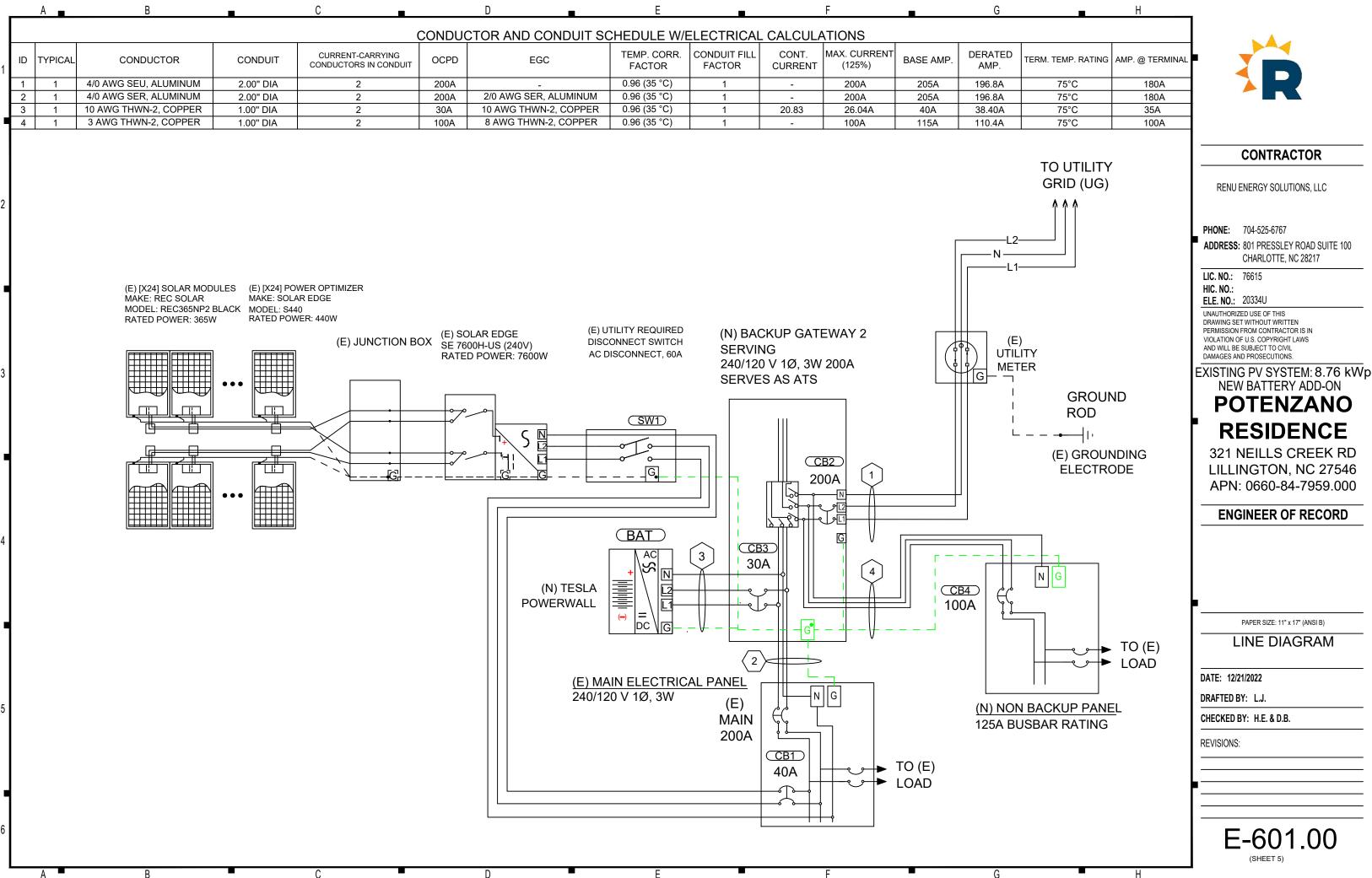
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REVISIONS:

A-104.00 (SHEET 4)



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				DESIGN TEMPERATURES				OCPDS	
			ASHRAE EXTREME LOW		, , ,	REF.	QTY.	RATED CURRENT	MAX VOLTAGE
			ASHRAE 2% HIGH	37.1°C (98.8°F), SOURCE: HARNE	TT COUNTY (35.38°;-78.73°)	CB1	1	40A	240VAC
						CB2	1	200A	240VAC
						CB3	1	30A	240VAC
						CB4	1	100A	240VAC

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DESIGN TABLES

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REVISIONS:

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POWERWALL

Tesla Powerwall is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, time-based control, and backup.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realize the benefits of reliable, clean power.



PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Total Energy	14 kWh
Usable Energy	13.5 kWh
Real Power, max continuous	5 kW (charge and discharge)
Real Power, peak (10s, off-grid/backup)	7 kW (charge and discharge)
Apparent Power, max continuous	5.8 kVA (charge and discharge)
Apparent Power, peak (10 s, off-grid/backup)	7.2 kVA (charge and discharge)
Maximum Supply Fault Current	10 kA
Maximum Output Fault Current	32 A
Overcurrent Protection Device	30 A
Imbalance for Split-Phase Loads	100%
Power Factor Output Range	+/- 1.0 adjustable
Power Factor Range (full-rated power)	+/- 0.85
Internal Battery DC Voltage	50 V
Round Trip Efficiency ^{1,3}	90%

³AC to battery to AC, at beginning of life.

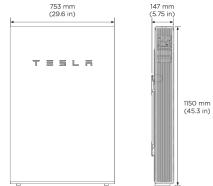
COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, UL 1973, UL 9540, IEEE 1547, UN 38.3
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)

MECHANICAL SPECIFICATIONS

Dimensions ¹	1150 mm x 755 mm x 147 mm (45.3 in x 29.6 in x 5.75 in)
Weight ¹	114 kg (251.3 lbs)
Mounting options	Floor or wall mount

¹Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.

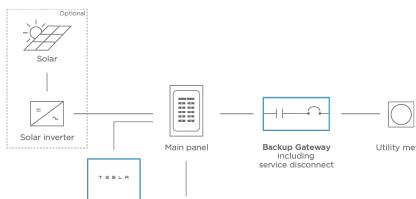


ENVIRONMENTAL SPECIFICATIONS

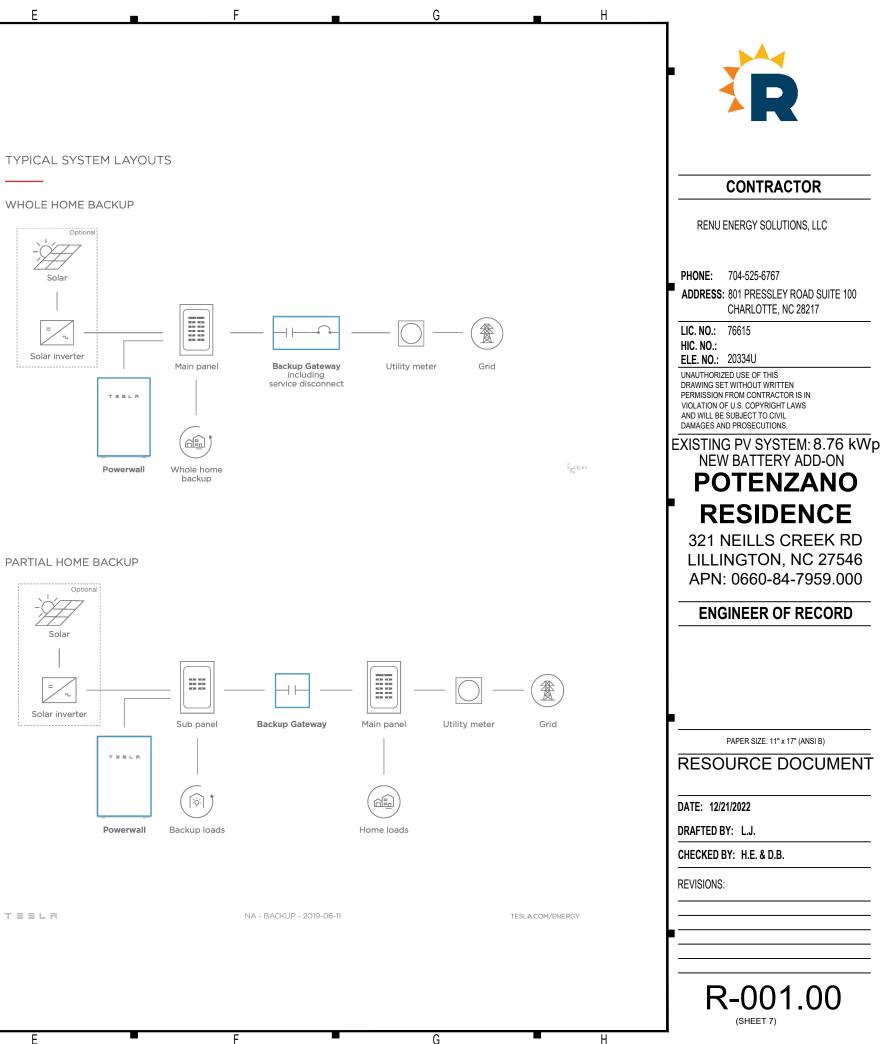
On anothing Tanan anothing	2000 to E000 (40E to 1000E)
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Recommended Temperature	0°C to 30°C (32°F to 86°F)
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	-20°C to 30°C (-4°F to 86°F) Up to 95% RH, non-condensing State of Energy (SoE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

TESLA.COM/ENERGY

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POWERWALL Backup Gateway 2

Duckup Outeway 2

The Backup Gateway 2 for Tesla Powerwall provides energy management and monitoring for solar self-consumption, time-based control, and backup.

The Backup Gateway 2 controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a main circuit breaker, the Backup Gateway 2 can be installed at the service entrance. When the optional internal panelboard is installed, the Backup Gateway 2 can also function as a load center.

The Backup Gateway 2 communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla app.

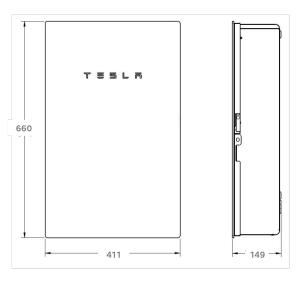
PERFORMANCE SPECIFICATIONS

120/240V
Split Phase
60 Hz
200 A
10 kA1
100-200A; Service Entrance Rated
Category IV
Revenue accurate (+/- 0.2 %)
Ethernet, Wi-Fi
Cellular (3G, LTE/4G)²
Tesla App
Support for solar self-consumption time-based control, and backup
Automatic disconnect for seamless backup
Supports up to 10 AC-coupled Powerwalls
200A 6-space / 12 circuit Eaton BR Circuit Breakers
10 years
p Gateway 2 is suitable for use in an 22kA symmetrical amperes. ernet connectivity for Backup Gateway ary mode of connectivity. Cellular service coverage and signal strength.

MECHANICAL SPECIFICATIONS

Dimensions	660 mm x 411 mm x 149 mm	
	(26 in x 16 in x 6 in)	
Weight	20.4 kg (45 lb)	
Mounting options	Wall mount, Semi-flush mount	

TESLA



COMPLIANCE INFORMATION

Certifications	UL 67, UL 869A, UL 916, UL 1741 PCS CSA 22.2 0.19, CSA 22.2 205
Emissions	FCC Part 15, ICES 003

D

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Operating Humidity (RH)	Up to 100%, condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R

TEELA

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B

NA 2020-05-23



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