

A

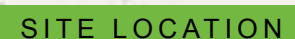
B

C

D

F

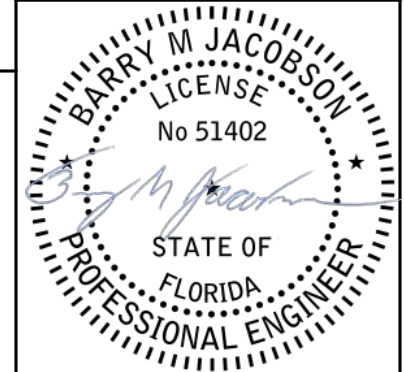
CODE REFERENCES



Designed By:



4509 NW 23rd Ave.
Suite.20
Gainesville, FL 32606
www.solarimpact.com
352.338.8221



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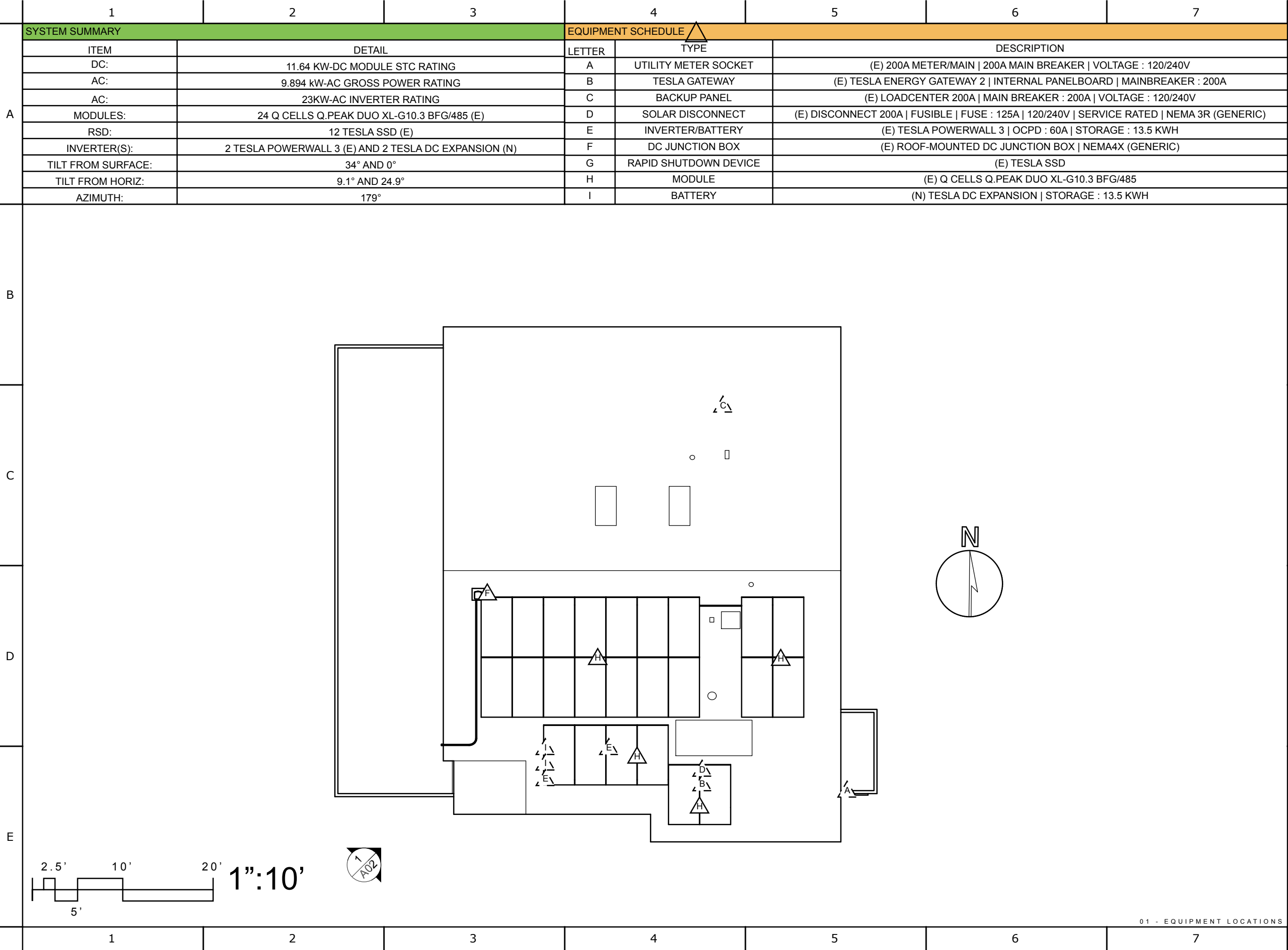
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Project Name: KAREN ZETROUER

Project Address: 11262 SW BLUFF DR
FORT WHITE FL 32038

PAGE TITLE:	PAGE #:
GENERAL NOTES	G01



Designed By:

solar
impact

4509 NW 23rd Ave.
Suite.20
Gainesville, FL 32606
www.solarimpact.com
352.338.8221

BARRY M JACOBSON

LICENSE

No 51402

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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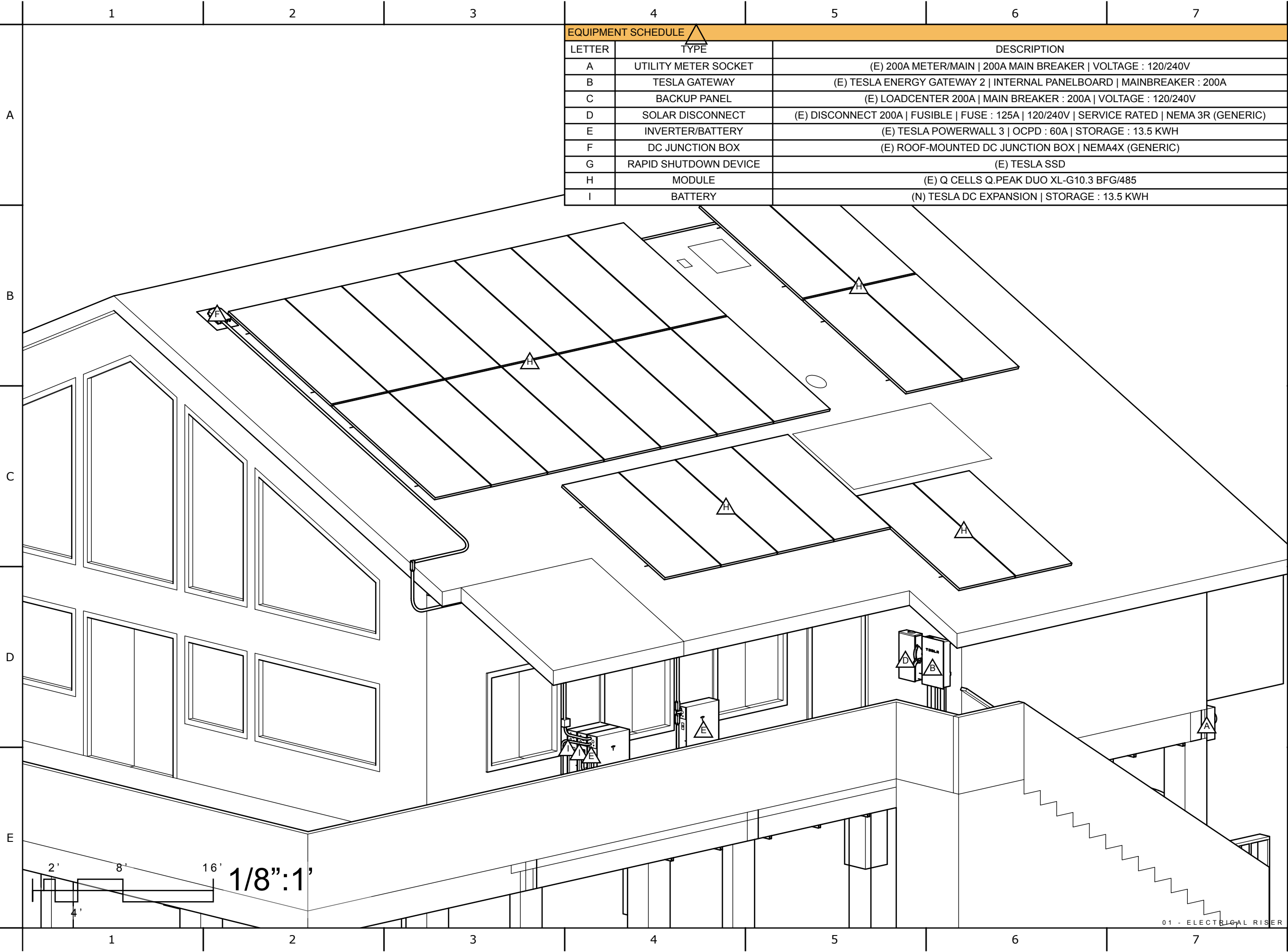
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PAGE TITLE:

EQUIPMENT LOCATIONS

PAGE #:

A01

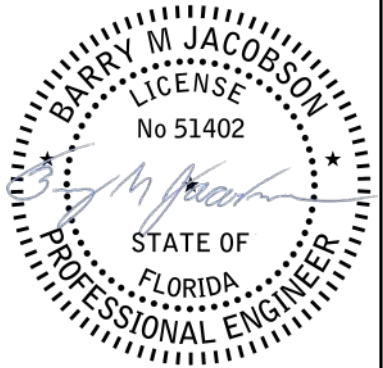


EQUIPMENT SCHEDULE		
LETTER	TYPE	DESCRIPTION
A	UTILITY METER SOCKET	(E) 200A METER/MAIN 200A MAIN BREAKER VOLTAGE : 120/240V
B	TESLA GATEWAY	(E) TESLA ENERGY GATEWAY 2 INTERNAL PANELBOARD MAINBREAKER : 200A
C	BACKUP PANEL	(E) LOADCENTER 200A MAIN BREAKER : 200A VOLTAGE : 120/240V
D	SOLAR DISCONNECT	(E) DISCONNECT 200A FUSIBLE FUSE : 125A 120/240V SERVICE RATED NEMA 3R (GENERIC)
E	INVERTER/BATTERY	(E) TESLA POWERWALL 3 OCPD : 60A STORAGE : 13.5 KWH
F	DC JUNCTION BOX	(E) ROOF-MOUNTED DC JUNCTION BOX NEMA4X (GENERIC)
G	RAPID SHUTDOWN DEVICE	(E) TESLA SSD
H	MODULE	(E) Q CELLS Q.PEAK DUO XL-G10.3 BFG/485
I	BATTERY	(N) TESLA DC EXPANSION STORAGE : 13.5 KWH

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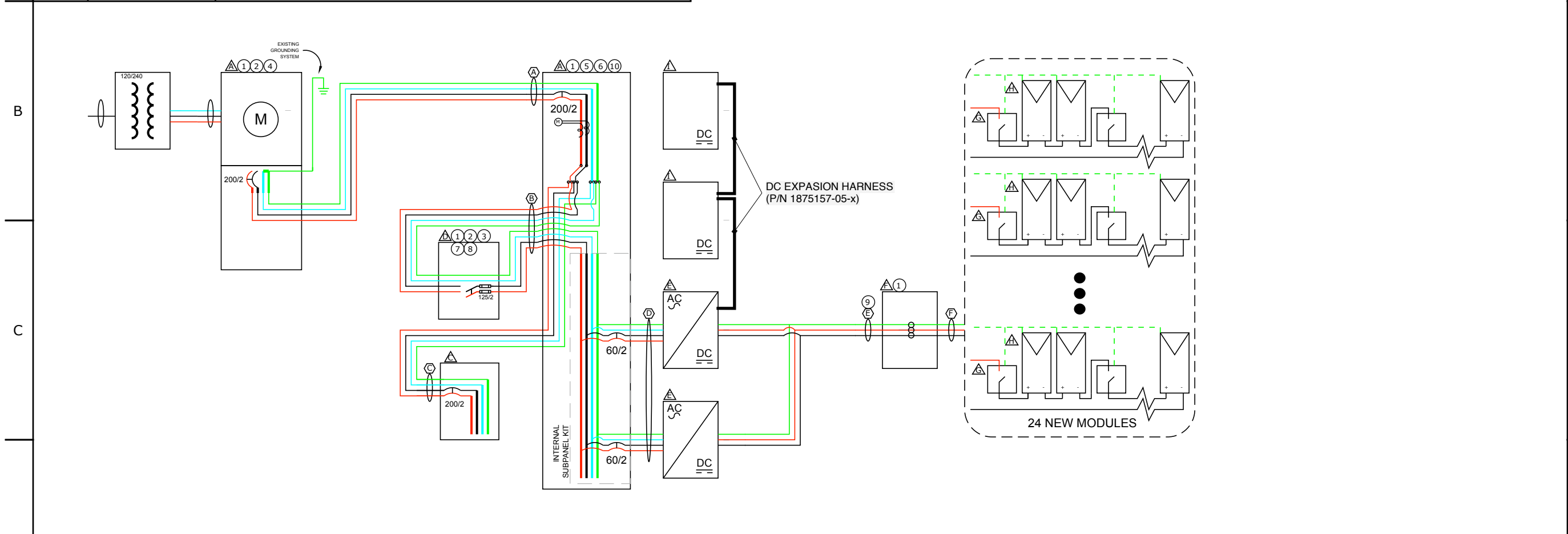
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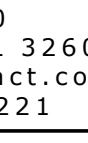
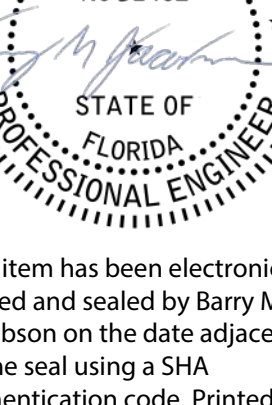
Project Name:
KAREN ZETROUER

Project Address:
1262 SW BLUFF DR
FORT WHITE FL 32038

	1	2	3	4	5	6	7
	EQUIPMENT SCHEDULE 			CONDUCTOR SIZES 		FIELD APPLIED PLACARDS 	
	LETTER	TYPE	DESCRIPTION	A	(1 SET) 2X #3/0 CU + 1X #3/0 CU NTRL + 1X #6 CU GRD IN 2" PVC SCH 40/HPDE	1	SEE PLACARDS PAGE FOR DETAILS
	A	UTILITY METER SOCKET	(E) 200A METER/MAIN 200A MAIN BREAKER VOLTAGE : 120/240V	B	(1 SET) 2X #1 CU + 1X #1 CU NTRL + 1X #6 CU GRD IN 1.5" PVC SCH 40/HPDE	*Note: NEC 705.95(B) says "Neutral Conductor for Instrumentation, Voltage Detection or Phase Detection. A conductor used solely for instrumentation, voltage detection, or phase detection and connected to a single-phase or 3-phase utility-interactive inverter, shall be permitted to be sized at less than the ampacity of the other current-carrying conductors and shall be sized equal to or larger than the equipment grounding conductor."	
	B	TESLA GATEWAY	(E) TESLA ENERGY GATEWAY 2 INTERNAL PANELBOARD MAINBREAKER : 200A	C	(1 SET) 2X #3/0 CU + 1X #3/0 CU NTRL + 1X #6 CU GRD IN 2" PVC SCH 40/HPDE		
	C	BACKUP PANEL	(E) LOADCENTER 200A MAIN BREAKER : 200A VOLTAGE : 120/240V	D	(1 SET) 4X #6 CU + 2X #6 CU NTRL + 1X #10 CU GRD IN 1.25" EMT		
A	D	SOLAR DISCONNECT	(E) DISCONNECT 200A FUSIBLE FUSE : 125A 120/240V SERVICE RATED NEMA 3R (GENERIC)	E	(1 SET) 8X #10 CU + 2X #10 CU GRD IN 1" EMT		
	E	INVERTER/BATTERY	(E) TESLA POWERWALL 3 OCPD : 60A STORAGE : 13.5 KWH	F	(1 SET) 8X #10 CU + 1X #4 CU GRD IN FREE AIR		
	F	DC JUNCTION BOX	(E) ROOF-MOUNTED DC JUNCTION BOX NEMA4X (GENERIC)				
	G	RAPID SHUTDOWN DEVICE	(E) TESLA SSD				
	H	MODULE	(E) Q CELLS Q.PEAK DUO XL-G10.3 BFG/485				
	I	BATTERY	(N) TESLA DC EXPANSION STORAGE : 13.5 KWH				



D	SOLAR SCHEDULE								E	ADDITIONAL NOTES:		
	INVERTER	MODEL	MODULE	RSD	STRING # 1		STRING # 2					
					MODULE	RSD	MODULE	RSD				
	1	TESLA POWERWALL 3	Q Cells 485 W	Tesla SSD	6	3	6	3		1. EACH MODULE TO BE GROUNDED USING THE SUPPLIED CONNECTION POINT PER MANUFACTURER'S REQUIREMENTS. ALL SOLAR MODULES, EQUIPMENT, AND METALLIC COMPONENTS ARE TO BE BONDED. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALLIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.		
	2	TESLA POWERWALL 3	Q Cells 485 W	Tesla SSD	6	3	6	3		2. ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF NATIONAL ELECTRICAL CODE. LABEL SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED IN A CONTRASTING COLOR TO THE PLAQUE. PLAQUE SHALL BE UV RESISTANT IF EXPOSED TO SUNLIGHT.		
	ELECTRICAL NOTES									3. DC CONDUCTORS SHALL BE RUN IN EMT AND SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIV. EVERY 5 FT.		
	1.) ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.									4. EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136(A).		
	2.) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.									5. CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE PRIOR TO CONNECTING INVERTER. VERIFY SERVICE VOLTAGE IS WITHIN INVERTER VOLTAGE OPERATIONAL RANGE.		
	3.) WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.									6. OUTDOOR EQUIPMENT SHALL BE NEMA-3R RATED OR BETTER.		
	4.) WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.									7. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.		
	5.) DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.									8. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE, AND FOR ROOF-MOUNTED SYSTEMS, WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF OF THE ROOF SURFACE. NEC 110.2 - 110.4 / 300.4		
	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 ILSCO GBL-4DBT LAY-IN LUG.											
	10.) THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE											
	1	2	3	4	5	6	7			01 - LINE DIAGRAM		

<div style="display: flex; justify-content: space-between; align-items: center;"><div>Designed By:</div><div></div></div> <div style="text-align: center; margin-top: 10px;"><h1 style="margin: 0;">solar impact</h1><p>4509 NW 23rd Ave. Suite.20 Gainesville, FL 32606 www.solarimpact.com 352.338.8221</p></div>		
		
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PAGE TITLE:		PAGE #:
LINE DIAGRAM		E01

Powerwall 3 Expansion Technical Specifications

Battery Technical Specifications

Model Number	1807000-xx-y
Nominal Battery Energy	13.5 kWh
Voltage Range	52 – 92 V DC ⁹
⁹ Powerwall 3 Expansion units are connected in parallel and are not field serviceable.	

Environmental Specifications

Operating Temperature	–20°C to 50°C (–4°F to 122°F) ¹⁰
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	–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 Rating	NEMA 3R
Ingress Rating	IP67
Pollution Rating	PD3
¹⁰ Performance may be de-rated at operating temperatures above 40°C (104°F).	

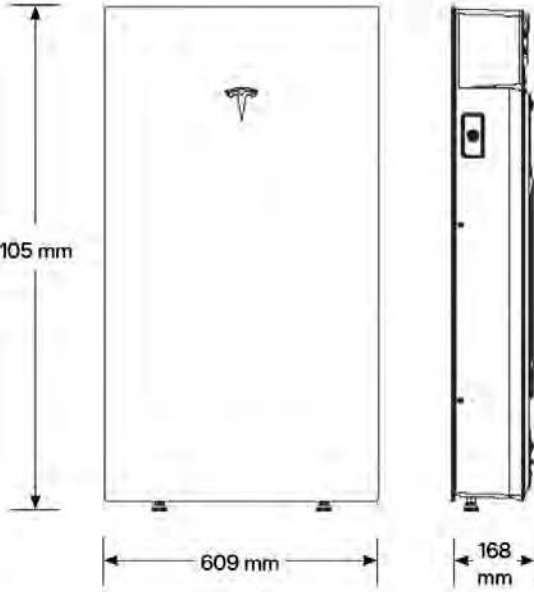
Compliance Information

Certifications	UL 1973, UL 9540
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Mechanical Specifications

Dimensions	1105 x 609 x 168 mm (43.5 x 24 x 6.6 in) ¹¹
Total Weight of Wall-Mounted Expansion Unit	118.5 kg (261.2 lb)
Weight of Expansion Unit	110 kg (242.5 lb)
Weight of Glass Front Cover	6.5 kg (14.5 lb)
Weight of Wall Bracket	1.9 kg (4.2 lb)
Weight of Expansion Accessories	0.7 kg (1.5 lb)
Mounting Options	Floor or wall mount
Stacking Capability (Floor Mount Only)	Up to (3) Expansion units behind a Powerwall 3
Compatibility with Other Systems	Only compatible with Powerwall 3
Connection to Powerwall 3 or Expansions	Powerwall 3 Expansion harness ¹²

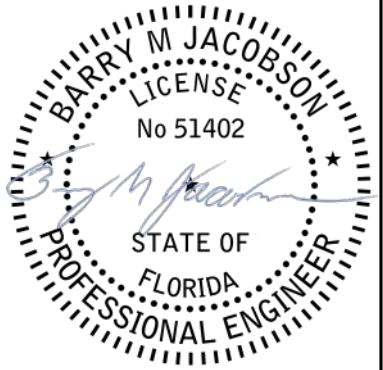
¹¹ These dimensions include the glass front cover being installed on Powerwall 3 Expansion.
¹² The Powerwall 3 Expansion harness is a listed component of the UL 9540 certification.



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Suite.20
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PAGE TITLE:	PAGE # :
TESLA DC EXPANSION	E02