

ENGINEER:

MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM

JOB TITLE:

MATTAMY HOMES RIVERFALL LOT 7 57 BERING CIRCLE ANGIER, NC 27501

CLIENT:



ISSUED FOR: DATE: CONSTRUCTION 02/26/25

SITE INFORMATION

DC/AC INVERTER & BATTERY					
MAKE	POWERWALL3				
MODEL #	1707000-XX-Y				
TECHNOLOGY	TRANS-LESS				
NOMINAL BATTERY ENERGY	13.5 kWH				
DC INPUT:					
MAX. POWER	20000 WATTS				
MAX. VOLT	600 VDC				
NOM. VOLT.	60-550 VDC				
MAX. CURRENT	13 AMPS				
MAX. SCC	15 AMPS				
STRINGS INPUTS	6 STRINGS				
AC OUTPUT:					
MAX CONT. DISCHARGE POWER	II500 WATTS				
MAX CONT. CHARGE POWER	5000 WATTS				
NOM. VOLT.	240 VOLTS				
MAX. CURR.	48 AMPS				
GFP (Y/N)	YES				
RPP (Y/N)	YES				
GFCI (Y/N)	YES				
AFCI (Y/N)	YES				
DC DISC. (Y/N)	YES				
RAPID SHUTDOWN	AUTOMATIC				
PROTECT. RATING	NEMA 4X				

CONDUCTOR SCHEDULE														
TAG	CURRENT CARRYING CONDUCTORS				GROUNDING CONDUCTORS				CONDUIT/RACEWAY				NOTES	
IAG	QTY.	SIZE	MATERIAL	INSULATION	QTY.	SIZE	MATERIAL	INSULATION	QTY.	SIZE	MATERIAL	LOCATION	NOTES	
CI	3	6 AWG	COPPER	THWN		10 AWG	COPPER	THWN	ı	3/4"	NOTE 5	EXT	2,4,5	
C2	3	4 AWG	ALUMINUM	THHN		8 AWG	ALUMINUM	THHN		4/4/4/8	SER	INTERIOR	2,4,5	
C3	3	4/0	ALUMINUM	THHN	-	-	-	-		% , % , % , %	SER	EXT/INT	2,4,5	
XC	-	-	-	-	-	-	-	-	-	-	-	-	3	

NOTES:

- MANUFACTURER PROVIDED, UL LISTED WIRING HARNESS FOR USE ON EXPOSED ROOFS
- 2. CONDUIT SIZE SHOWN IS CODE MINIMUM. LARGER SIZES ARE ALLOWED.
- 3. EXISTING CONDUCTORS, FIELD VERIFY
- 4. EQUIPMENT TERMINAL RATING SHALL BE A MINIMUM OF 75°C AT BOTH END OF CONDUCTOR
- 5. PVC, EMT, ROMEX, LFNMC & FMC ARE ACCEPTABLE WHEN USED IN ACCORDANCE WITH ARTICLES 330, 334, 348, 350, 352, 356, & 358 OF THE 2017 NEC

CRITICAL LOADS PANEL (NEW)					
MAKE	SPAN				
MODEL	I-00800-XX				
ENCL. RATING	NEMA 3R				
VOLT. RATING	240 VOLTS				
BUS RATING	225 AMPS				
UL LIST. (Y/N)	YES				
MAIN BREAKER (Y/N)	YES				
BREAKER RATING	200 AMPS				

AC DISCONNECT "A"		AC DISCONNECT "B"			
MAKE	EATON	П	MAKE	EATON	
MODEL	N/A		MODEL	N/A	
ENCL. RATING	NEMA 3R		ENCL. RATING	NEMA 3R	
VOLT. RATING	240 VOLTS		VOLT. RATING	240 VOLTS	
AMP RATING	60 AMPS	Γ.	AMP RATING	60 AMPS	
UL LIST. (Y/N)	YES		UL LIST. (Y/N)	YES	
FUSED (Y/N)	YES		FUSED (Y/N)	NO	
FUSE RATING	60 AMPS		FUSE RATING	N/A	

BACKUP SWITCH (NEW)					
TESLA					
BACKUP SWITCH					
NEMA 3R					
120/240 VOLTS					
200 AMPS					
YES					
NO					
CAN					

NOTES:

- BACKFEED POWERWALL 3 VIA (I)
 60 AMP BREAKER AT THE
 OPPOSITE END OF THE BUSBAR
 FROM THE MAIN BREAKER.
- PROVIDE (I) 50 AMP BREAKER FOR EV OUTLET CIRCUIT.
- MAIN BREAKER SERVES AS SERVICE DISCONNECT SWITCH.

NOTES:

- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN POSITION

METER

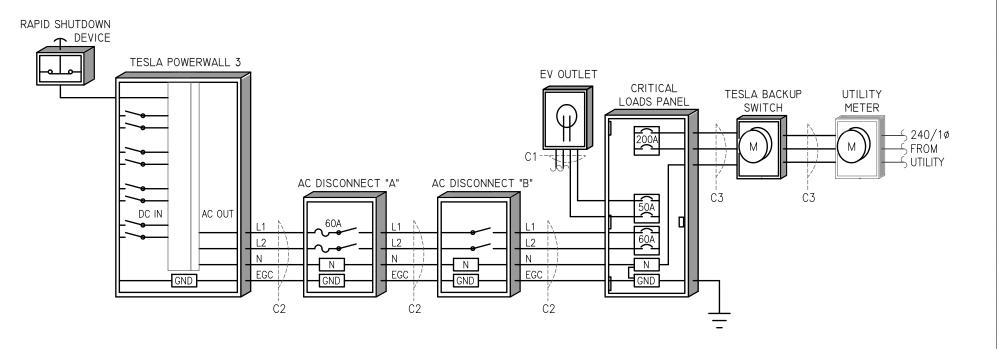
- POSITIONINSTALL ADJACENT TO
- DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT ALL TIMES

NOTES:

- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN POSITION
- INSTALL ADJACENT TO METER
- DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT ALL TIMES

NOTES:

 PROVIDE NEW METER BASE TO CONNECT BACKUP SWITCH DEVICE.



SEAL:

CARO
SEAL

OSEAL

OSEAL

OSEAL

OSEAL

OSEAL

ENGINEER:

MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM

P-1194

JOB TITLE:

NEW BATTERY ADDITION

MATTAMY HOMES RIVERFALL LOT 7 57 BERING CIRCLE ANGIER, NC 27501

CLIENT:



ISSUED FOR: DATE:
CONSTRUCTION 02/26/25

ELECTRICAL INFORMATION

PV3.1

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

NEC 690.56 (C)(1)(a)
PLACE WITHIN 3FT OF SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATIONS OF RAPID SHUTDOWN SWITCHES

WARNING DUAL POWER SUPPLY

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

NEC 705.12 (B)(3) PLACE ON ALL EQUIPMENT THAT IS SUPPLIED BY BOTH POWER SOURCES

PCS CONTROLLED **CURRENT SETTING: 200 AMPS**

THE MAXIMUM OUTPUT CURRENT FROM S SYSTEM TOWARDS THE MAIN PANEL NTROLLED ELECTRICALLY. REFER TO MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.

NEC 705.13 PLACE ON PANELS CONNECTED TO GATEWAY

WARNING

FED BY MULTIPLE POWER SOURCES

TOTAL RATING OF ALL VERCURRENT DEVICES EXCLUDING UTILITY OVERCURRENT **DEVICE SHALL NOT EXCEED** AMPACITY OF BUSBAR

NEC 705.12 (B)(2)(3)(c) PLACE ADJACENT TO BACK-FED BREAKER

EQUIPMENT LABEL NOTES

- REQUIRED SIZE.
- 2. LABEL MATERIAL SHALL BE SUITABLE
- CONDUIT SHALL BE MARKED WITH

WARNING

ELECTRIC SHOCK HAZARD TERMINALS ON THE LINE AND OAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

NEC 690.13 (B) PLACE ON PV SYSTEM DISCONNECTING MEANS.

WARNING POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS **OVERCURRENT DEVICE** NEC 705.12 (B)(2)(3)(b)
PLACE ADJACENT TO BACK-FED BREAKER

SEAL: ENGINEER: MODEL ENERGY 300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM JOB TITLE: **NEW BATTERY ADDITION**

CIRCLE C 27501 RIVERFALL LOT 7 S 57 BERING ANGIER,

P-1194

CLIENT:



ISSUED FOR: DATE: CONSTRUCTION 02/26/25

> **EQUIPMENT** LABELS

LABELS SHOWN ARE 1/2 THEIR ACTUAL

FOR THE EQUIPMENT ENVIRONMENT.

REQUIRED LABEL EVERY 10 FEET.