FUNK RESIDENCE

200 SW SKYLINE LOOP
FT WHITE, FL 32038

10.50 KW DC
ROOF MOUNTED FLUSH MOUNT PHOTOVOLTAIC SYSTEM

27.0 KWH BATTERY SYSTEM

PHOTOVOLTAIC SYSTEM DETAILS
- MODULES = HANWHA Q.PEAK DUO-G8 350 350 W (30 PCS)
- INVERTER = SOLAREDGE SE11400H-US (1 PCS)
- RACKING SYSTEM = IRONRIDGE XR10 W/ SOLARFOOT
- DATA ACQUISITION = SOLAREDGE ZIGBEE GATEWAY

BATTERY SYSTEM DETAILS
- BATTERIES = TESLA POWERWALL 2, 13.5 KWH (2 PCS)

AUTHORITY HAVING JURISDICTION
- BUILDING AUTHORITY = COLUMBIA COUNTY
- CODE REFERENCE = 2017 NEC & 2020 FBC
- ELECTRICAL UTILITY COMPANY = CLAY ELECTRIC COOPERATIVE

DESIGN CRITERIA
- DESIGN WIND LOAD = 130 MPH
- DESIGN ROOF SNOW LOAD = 0 PSF
- EXPOSURE CATEGORY = C
- HIGH TEMP (ASHRAE 2% HIGH) = 34°C
- LOW TEMP (ASHRAE EXTREME LOW) = -5°(
- ROOF TYPE = METAL CORRUGATED

SHEET INDEX

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

SITE MAP

VICINITY MAP

solar impact
CONTRACTOR

garnascé SOLAR
DESIGNER

BARRY M JACOBSON
LICENSE
No 51402
STATE OF FLORIDA
PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 15:50:39 -05'00'

DESIGNER: HARRISON DRY

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL., 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50kW DC, 11.00kW AC
• 30 HANWHA Q.PEAK DUO-G8 350 W MODULES
• 1 SOLAREDGE SE11400H-US INVERTER
• 2 TESLA POWERWALL 2, 13.5kWh BATTERIES
CONTACT: BRIAN LEVERETTE
• BRIAN.LEVERETTE@SOLARIMPACT.COM
• 352.727.6622

COVER PAGE
NOT TO SCALE
PV-G.0

ROOF CONSTRUCTION

- ROOF TYPE = METAL CORRUGATED
- PV ARRAY = 576 SQUARE FEET
- TOTAL ROOF AREA = 5039 SQUARE FEET
- PERCENTAGE OF ROOF W/ PV = 11.4%
- MAX ATTACHMENT SPAN = 72"
- MAX CANTILEVER = 19.2"
- ATTACHMENTS SHALL BE STAGGERED SO THE LOAD IS DISTRIBUTED EVENLY TO RAFTERS UNDERNEATH THE ARRAY

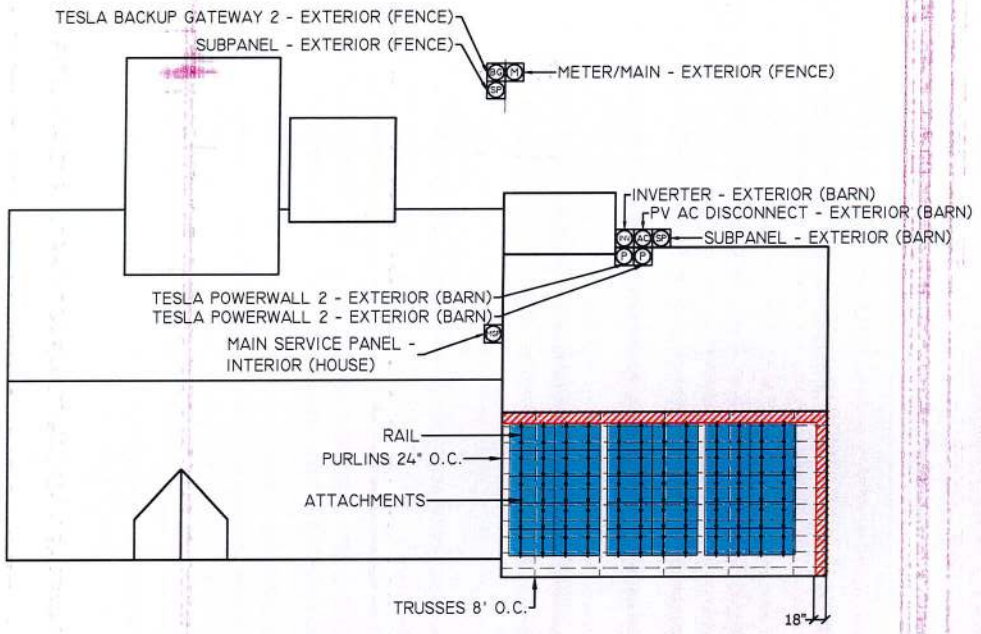
FIRE SETBACKS

- 18" FROM RIDGE AND GABLE ENDS, 18" FROM HIPS AND VALLEYS

STRUCTURAL NOTES

1. THIS DOCUMENT REPRESENTS THE FINISHED STRUCTURE. IT DOES NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION.
2. ALL DETAILS SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY CALLED OUT OR NOT. TYPICAL DETAILS MAY NOT NECESSARILY BE CALLED OUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

ARRAY INFORMATION			
	ARRAY 1	ARRAY 2	ARRAY 3
MOD QTY	10	10	10
TILT	4°	4°	4°
AZIMUTH	150°	150°	150°



solar impact

namasté SOLAR

DESIGNER CONTRACTOR

BARRY M JACOBSON LICENSE No 51402 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 15:50:10 -05'00'

DESIGNER: HARRISON ORY

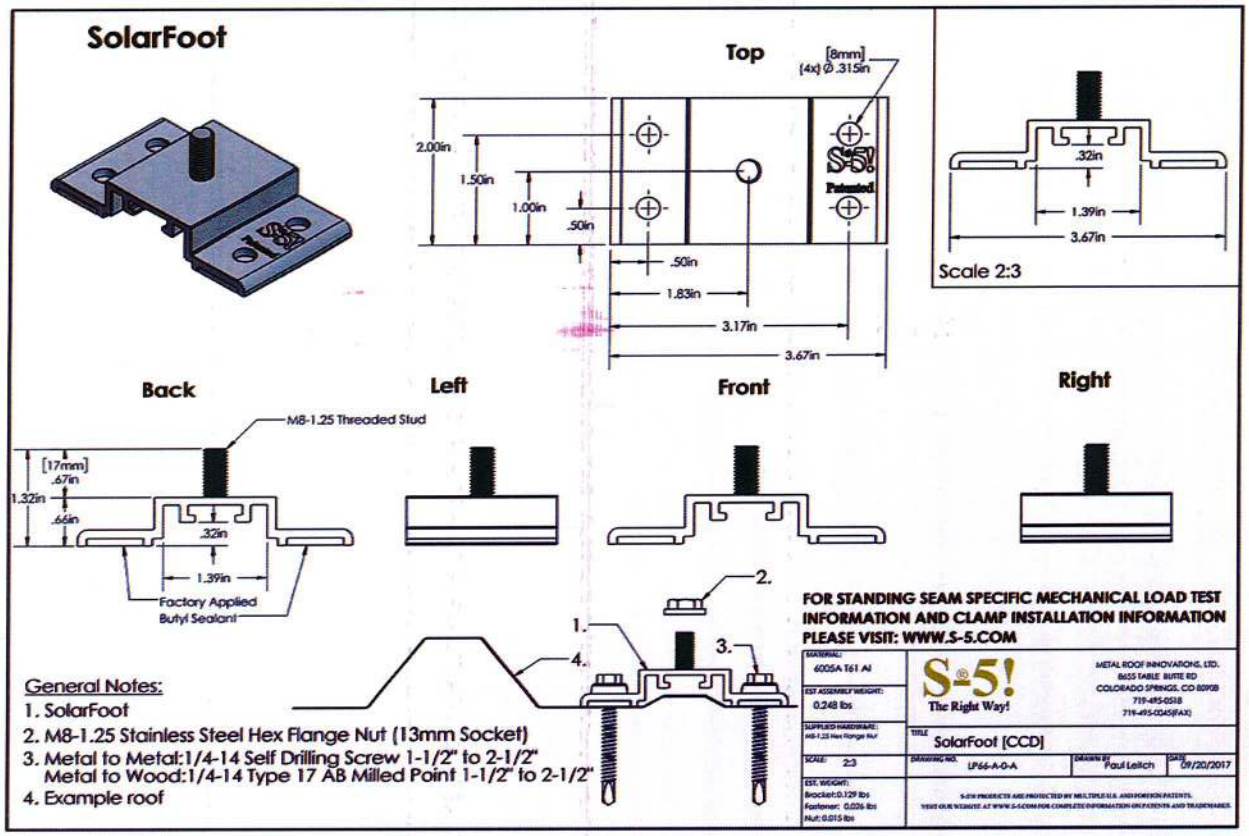
FUNK RESIDENCE
290 SW SKYLINE LOOP, FT. WHITE, FL 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 20.50kW DC, 16.00kW AC
• 50 HANWHA Q.PEAK DUO BLK ML-G10.a+ 410W MODULES
• 1 SOLAREDGE SE16000H-US INVERTER
• 2 TESLA POWERWALL 2, 13.5kWh BATTERIES
CONTACT: BRIAN EVERETTE
• BRIAN.EVERETTE@SOLARIMPACT.COM
• 352.727.6022

ARRAY LAYOUT

NOT TO SCALE

PV-A.1



DESIGNER CONTRACTOR

BARRY M JACOBSON LICENSE No 51402 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 15:32:05 -05'00'

DESIGNER: HARRISON ORY

FUNK RESIDENCE
209 SW SKYLINE LOOP, FT. WHITE, FL. 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.5kW DC, 11.0kW AC
• 21 SILFAB SIL-500HC+ 500W PADDLES
• 1 SOLAREDGE SE11400H-US
• 2 TESLA POWERWALL 2, 13.5kWh BATTERIES
CONTACT: BRIAN LEVERETTE
• EMAIL: BRIAN.LEVERETTE@NAMASTESOLAR.COM
• 352.727.0052

ATTACHMENT DETAILS
NOT TO SCALE
PV-A.2

DIMENSIONS

NOT TO SCALE

PV-A.3

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL, 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50KW DC, 14.0KW AC
- 30 HANWHA Q.PEAK DUO-G6 350, 350W MODULES
- 1 SOLAREDGE SE14.0KH-US INVERTER
- 2 TESLA POWERWALL 2, 13.5kWh BATTERIES

CONTACT: BRIAN LEVERETTE
- BRIAN.LEVERETTE@SOLARIMPACT.COM
- 352.727.0022

DESIGNER: HARRISON ORY

2021.12.19 15:31:38 -05'00'

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

STATE OF FLORIDA PROFESSIONAL ENGINEER
BARRY M JACOBSON
LICENSE No 51402

CONTRACTOR

REVISIONS

solar impact
4508 NW 23RD AVE, SUITE 30
GAINESVILLE FL 32606
SOLARIMPACT.COM • 352.338.8021

namasté SOLAR
5721 WINCHESTER CIRCLE, BOULDER, CO 80301
555 FEDERAL BLVD, DENVER, CO 80204
WWW.NAMASTESOLAR.COM • 303.447.8300

EQUIPMENT SCHEDULE

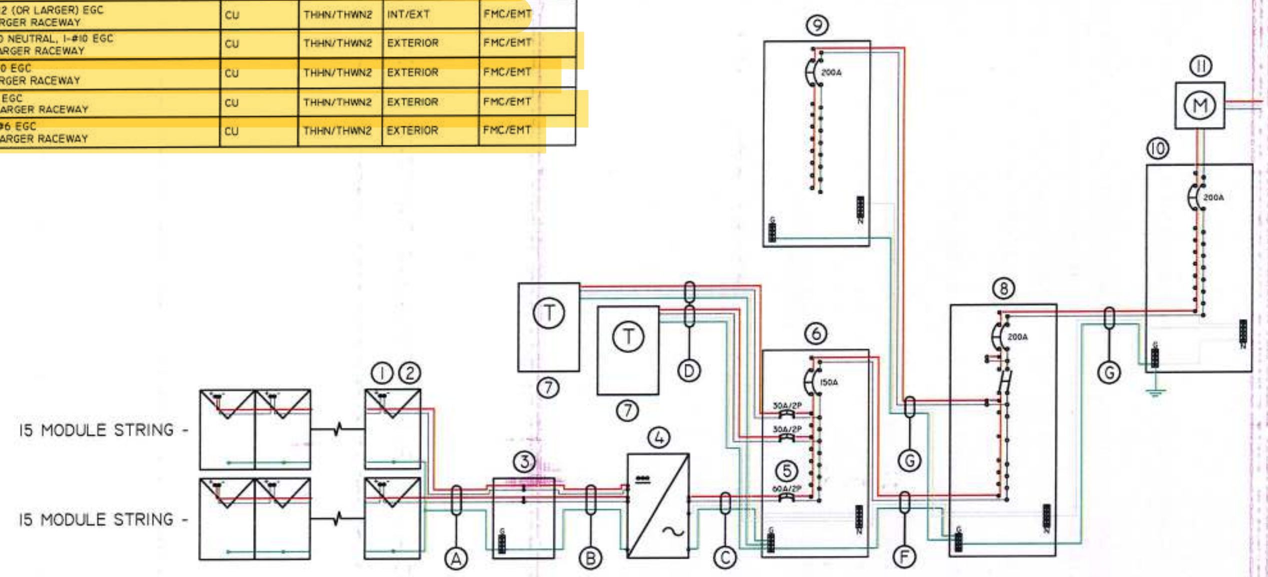
KEY	QTY	MAKE	MODEL	LOCATION	NOTES
1	30	HANWHA	Q.PEAK DUO-G8 350	FLUSH MOUNTED TO ROOF	PV MODULE
2	30	SOLAREDGE	P401	MOUNTED ON RACKING	POWER OPTIMIZER
3	3	SOLADECK	0799-5G	UNDERNEATH ARRAY	PV ROOF JUNCTION BOX, NEMA 3R
4	1	SOLAREDGE	SE11400H-US	EXTERIOR (BARN)	DC DISCONNECT INTEGRATED INVERTER
5	1	TBD	TBD	SUBPANEL, OPPOSITE SIDE OF MAIN BREAKER	PV BREAKER, 1X60A/2P
6	1	TBD	TBD	EXTERIOR (BARN)	SUBPANEL, 150A BUS, 150A MAIN, 240V
7	2	TESLA	POWERWALL 2	INTERIOR (BARN)	TESLA POWERWALL 2 BATTERY, 240V
8	1	TESLA	BACKUP GATEWAY 2	EXTERIOR (FENCE)	TESLA BACKUP GATEWAY 2, 200A MAIN, 240V 2X30A/2P BATTERY BREAKERS
9	1	TBD	TBD	EXTERIOR (FENCE)	BACKED-UP LOADS PANEL, 200A BUS, 200A MAIN, 240V
10	1	TBD	TBD	INTERIOR (FENCE)	MAIN SERVICE PANEL, 200A BUS, 200A MAIN, 240V
11	1	TBD	TBD	EXTERIOR (FENCE)	UTILITY METER, 200A, 240V

GENERAL
1. PLACARDING AS REQUIRED PER 690.13, .15, .31, .51, .52, .53, .54, .56, 705.10, 705.12
2. PLACARD AT METER INDICATING "PHOTOVOLTAIC SYSTEM CONNECTED"
3. SERVICE DISCONNECTS SHALL BE GROUPED AND/OR MARKED WITH LOCATION DESCRIPTION(S)
4. GEC SHALL BE CONTINUOUS PER 250.64(C)

BATTERY INTERCONNECTION: BREAKER IN SUBPANEL
PV INTERCONNECTION: BREAKER IN SUBPANEL

CONDUCTOR SCHEDULE

KEY	CONDUCTORS	CU/AL	TYPE	LOCATION	RACEWAY
A	4-#12, 1-#10 EGC	CU	PV WIRE	ARRAY	FREE AIR
B	4-#12, 1-#12 (OR LARGER) EGC 1/2" OR LARGER RACEWAY	CU	THHN/THWN2	INT/EXT	FMC/EMT
C	2-#6, 1-#10 NEUTRAL, 1-#10 EGC 3/4" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	FMC/EMT
D	3-#10, 1-#10 EGC 1/2" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	FMC/EMT
F	3-#1, 1-#6 EGC 1-1/4" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	FMC/EMT
G	3-# 3/0, 1-#6 EGC 1-1/2" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	FMC/EMT



solar impact
4409 NW 23RD AVE, SUITE 20 GAINESVILLE FL 32606 SOLARIMPACT.COM • 352.336.8201
CONTRACTOR

namasté SOLAR
DESIGNER

BARRY M JACOBSON LICENSE No 51402 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 16:18:01 -05'00'

DESIGNER: HARRISON DRY

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL. 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50kW DC, 14.0kWH AC
- 30 HANWHA Q.PEAK DUO-G8 350, 350W MODULES
- 1 SOLAREDGE SE11400H-US INVERTER
- 2 TESLA POWERWALL 2, 13.5kWh BATTERIES

CONTACT: BRIAN LEVERETTE
- BRIAN.LEVERETTE@SOLARIMPACT.COM
- 352.727.0022

LINE DIAGRAM
NOT TO SCALE
PV-E.1

HANWHA Q.PEAK DUO-G8 350 MODULE SPECIFICATIONS & CALCULATIONS			
ITEM	NOTE / CALC	UNIT	INSTALLED DETAIL
LOCATION			FT WHITE, FL 32038
AMBIENT HIGH TEMPERATURE (TMAX)	ASHRAE 2%	°C	34
AMBIENT LOW TEMPERATURE (TMIN)	ASHRAE EXTREME MIN	°C	-5
MODULE TEST TEMPERATURE (TTEST)	MODULE SPEC	°C	25
DELTA LOW TEMPERATURE (TD)	TMIN - TTEST	°C	-30
MODULE POWER STC (P)	MODULE SPEC	WATTS (W)	350
MODULE OPERATING VOLTAGE (VMP)	MODULE SPEC	VOLTS (V)	34.97
MODULE OPEN-CIRCUIT VOLTAGE (VOC)	MODULE SPEC	VOLTS (V)	41.21
MODULE COEFFICIENT, VOLT/TEMP (COEFF)	MODULE SPEC	(%/°C) / 100	-0.0027
MODULE OPERATING CURRENT (IMP)	MODULE SPEC	AMPS (A)	10.01
MODULE SHORT-CIRCUIT CURRENT (ISC)	MODULE SPEC	AMPS (A)	10.51
MODULE MAX VOLTAGE (VMAXMOD)	(VOC + VOC(TD*COEFF))	VOLTS (DC)	44.55
MODULE MAX CURRENT (IMAX)	(ISC * 1.25)	AMPS (DC)	13.14
MIN AMPACITY REQUIRED PER NEC	(IMAX * 1.25)	AMPS (DC)	16.42

SOLAREDGE P401 POWER OPTIMIZER SPECIFICATIONS & CALCULATIONS			
ITEM	UNIT	SPECIFIED LIMIT	INSTALLED DETAIL
MAX INPUT POWER (WDC MAX)	WATTS (DC)	400	350
MIN INPUT VOLTAGE (VDC MIN)	VOLTS (DC)	8.0	34.97
MAX INPUT VOLTAGE (VDC MAX)	VOLTS (DC)	60	44.55
MAX SHORT-CIRCUIT CURRENT (ISC)	AMPS (DC)	11.75	10.51
MAX OUTPUT CURRENT	AMPS (DC)	15	13.13
MAX OUTPUT VOLTAGE	VOLTS (DC)	60*	

*OPTIMIZER OUTPUT VOLTAGE RANGE BETWEEN 60-85 VDC - STRING VOLTAGE IS REGULATED BY THE INVERTER (NOT TO EXCEED 480VDC)

NOTE: CALCULATED VALUES ARE THE ABSOLUTE MIN/MAX OF ALL ARRAYS USING THIS POWER OPTIMIZER CONFIGURATION
-MAXIMUM STRING VOLTAGE IS 480VDC (INVERTER REGULATED)

SOLAREDGE SE11400H-US INVERTER SPECIFICATIONS & CALCULATIONS			
ITEM	NOTE / CALC	UNIT	INSTALLED DETAIL
INVERTER MAX POWER (WAC MAX)	INVERTER SPEC	WATTS (AC)	11400
INVERTER INPUT VOLTAGE (VDC MAX)	INVERTER SPEC	VOLTS (DC)	480
INVERTER OUTPUT VOLTAGE (VAC NOM)	INVERTER SPEC	VOLTS (AC)	240
INVERTER OUTPUT FREQUENCY	INVERTER SPEC	HERTZ	60
INVERTER OUTPUT CURRENT (IAC)	INVERTER SPEC	AMPS (AC)	47.5
DC OPTIMIZED INPUT VOLTAGE (VOPT)	INVERTER SPEC	VOLTS (DC)	400
INVERTER PHASE	INVERTER SPEC	PHASE	1
COMPLIANCE	INVERTER SPEC		UL1741/IEEE1547
INVERTER GROUNDING	INVERTER SPEC		UNGROUNDED
INVERTER QUANTITY	INVQTY	QUANTITY	1
MODULE QUANTITY PER BRANCH CIRCUIT	MODQTY	QUANTITY	15
MAX INPUT CURRENT PER STRING (IMAXDC)	(MODQTY*WDC)/VOPT	AMPS (DC)	13.13
MAX OUTPUT CURRENT (IMAXAC)	(IAC*1.25)	AMPS (AC)	59.38

TESLA POWERWALL 2 BATTERY SPECIFICATIONS			
ITEM	NOTE / CALC	UNIT	DETAIL
GRID INTEGRATION	BATTERY SPEC		AC COUPLED
AC VOLTAGE (NOMINAL)	BATTERY SPEC	VOLTS (AC)	240
TOTAL ENERGY	BATTERY SPEC	KWH (AC)	14
USABLE ENERGY	BATTERY SPEC	KWH (AC)	13.5
REAL POWER, MAX CONTINUOUS	BATTERY SPEC	KW (AC)	5
REAL POWER, PEAK (10S, OFF-GRID/BACKUP)	BATTERY SPEC	KW (AC)	7
APPARENT POWER, MAX CONTINUOUS	BATTERY SPEC	KVA (AC)	5.8
APPARENT POWER, PEAK (10S, OFF-GRID/BACKUP)	BATTERY SPEC	KVA (AC)	7.2
MAX SUPPLY FAULT CURRENT	BATTERY SPEC	KA (AC)	10
MAX OUTPUT FAULT CURRENT	BATTERY SPEC	AMPS (AC)	32
OVERCURRENT PROTECTION DEVICE	BATTERY SPEC	AMPS (AC)	30
INTERNAL BATTERY DC VOLTAGE	BATTERY SPEC	VOLTS (DC)	50

CONDUCTOR SIZING CALCULATIONS											
KEY	SIZE	CU/AL	INSULATION	CALC. TYPE	AMPACITY (A) W/O DERATES	TEMP. DERATE	FILL DERATE	RESULT (A)	REQ'D (A)	OCPD	
A	#12	CU	PV WIRE	COU	30	0.96	0.80	23.04	15.00		
				TERM	25			25	18.75		
B	#12	CU	THHN/THWN2	COU	30	0.96	0.80	23.04	15.00		
				TERM	25			25	18.75		
C	#6	CU	THHN/THWN2	COU	75	0.96	1.00	72.00	47.50		
				TERM	65			65	59.38		60A
D	#10	CU	THHN/THWN2	COU	40	0.96	1.00	38.40	NA		
				TERM	35			35	30.00		30A
F	#1	CU	THHN/THWN2	COU	145	0.96	1.00	139.20	150		
				TERM	130			130	125.00		150A
G	2/0	CU	THHN/THWN2	COU	195	0.96	1.00	187.20	200		
				TERM	175			175	166.00		200A

1) CONDITION OF USE (COU): (AMPACITY * TEMP. DERATE * FILL DERATE) VS. REQ'D (IMAX)
2) TERMINALS (TERM): AMPACITY AT TERMINALS, VS. REQ'D, (IMAX * 1.25)

NOTE: ALL WIRES SIZED #10 OR LESS ARE IN COMPLIANCE WITH 240.4(D)

INTERCONNECTION CALCULATIONS -BACKUP GATEWAY		
ITEM	UNIT	PANEL
BUS RATING	AMPS	200
MAIN DISCONNECT	AMPS	200
ALLOWED PV PER NEC	AMPS	40
PV OCPD USED	AMPS	60*

*LOADSIDE TAP

INTERCONNECTION CALCULATIONS -SUBPANEL		
ITEM	UNIT	PANEL
BUS RATING	AMPS	150
MAIN DISCONNECT	AMPS	150
ALLOWED PV PER NEC	AMPS	30
PV OCPD USED	AMPS	60*

*BACKFED BREAKER

solar impact
CONTRACTOR

namasté SOLAR
DESIGNER

BARRY M JACOBSON
LICENSE
No 51402
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

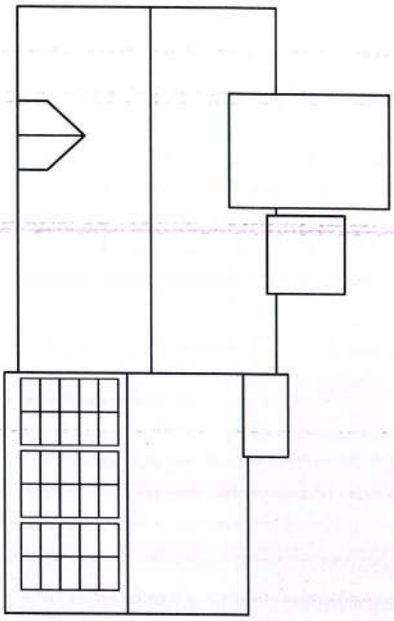
This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 15:30:00 -05'00'

DESIGNER: HARRISON DRY

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL. 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50KW DC, 11.0KW AC
• 30 HANWHA Q.PEAK DUO-G8 350.350W MODULES
• 1 SOLAREDGE SE11400H-US INVERTER
• 2 TESLA POWERWALL 2, 13.5KWH BATTERIES
CONTACT: BRIAN LEVERETTE
• BRIAN.LEVERETTE@SOLARIMPACT.COM
• 352.727.0022

ELECTRICAL CALCS
NOT TO SCALE
PV-E.2



SAFETY PLAN

NOT TO SCALE

PV-N.1

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL. 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50kW DC, 11.0kW AC
- 30 HANWHA Q.PEAK DUO-G8 350, 350W MODULES
- 1 SOLAREDGE SE11400H-US INVERTER
- 2 TESLA POWERWALL 2, 13.5kWh BATTERIES

CONTACT: BRIAN LEVERETTE
- BRIAN.LEVERETTE@SOLARIMPACT.COM
- 352.727.0022

DESIGNER: HARRISON ORY

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 15:29:16 -05'00'

STATE OF FLORIDA PROFESSIONAL ENGINEER
BARRY M JACOBSON
LICENSE No 51402

CONTRACTOR
solar impact
4500 NW 23RD AVE, SUITE 20
GAINESVILLE FL 32606
SOLARIMPACT.COM • 352.336.8221

DESIGNER
namasté SOLAR
8707 WINCHESTER CIRCLE, BOULDER, CO 80301
1800 FEDERAL BLVD, DENVER, CO 80211
WWW.NAMASTESOLAR.COM • 303.647.8300

STRING DIAGRAM

NOT TO SCALE

PV-N.2

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL, 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50kW DC, 14.0kWh AC
- 30 HANWHA Q.PEAK DUO-G8 350, 350W MODULES
- 1 SOLAREDGE SE14.0OH-US INVERTER
- 2 TESLA POWERWALL 2, 13.5kWh BATTERIES

CONTACT: BRIAN LEVERETTE
- BRIAN.LEVERETTE@SOLARIMPACT.COM
- 352.727.0022

DESIGNER: HARRISON ORY

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 15:28:48 -05'00'

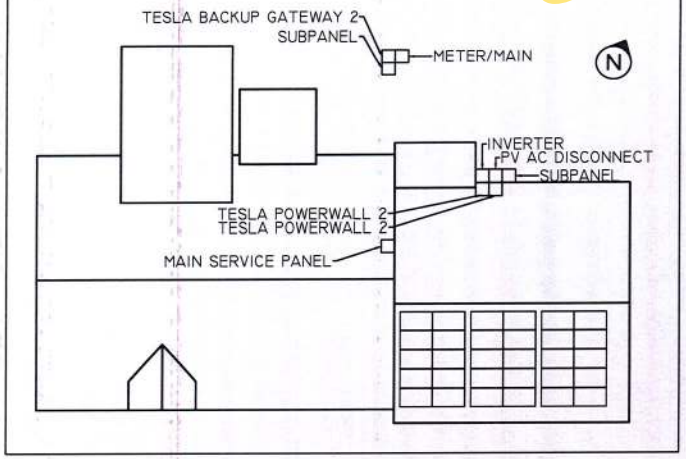
PROFESSIONAL ENGINEER
BARRY M JACOBSON
LICENSE No 51402
STATE OF FLORIDA

PROJECT CONTRACTOR
solar impact
4508 NW 23RD AVE, SUITE 20
GAINESVILLE FL 32606
SOLARIMPACT.COM • 352.330.8021

DESIGNER
namasté SOLAR
5737 MANCHESTER CIRCLE, BOULDER, CO 80301
955 FEDERAL BLVD, DENVER, CO 80204
WWW.NAMASTESOLAR.COM • 303.447.9300

CAUTION

POWER TO THIS SERVICE IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN



BARRY M JACOBSON
LICENSE
No 51402
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 15:51:23 -05'00'

PANEL FED BY
PV AND UTILITY

I PLACARDS LOCATED ON MAINS PANEL AND ANY SUBPANEL

PHOTOVOLTAIC
POWER SOURCE

NEC 690.31(G)(3)(4):
LABELS LOCATED ON ALL PV SOURCE/ OUTPUT ENCLOSURES INSIDE BUILDING

MAXIMUM SYSTEM VOLTAGE 480V
MAXIMUM CIRCUIT CURRENT 30A
MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER IF INSTALLED

NEC 690.53:
I LABEL(S) LOCATED ON DC DISCONNECT

PHOTOVOLTAIC SYSTEM CONNECTED

NEC 690.54:
I LABEL(S) LOCATED INSIDE MAIN BILLING METER

⚠ WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.

NEC 690.13(B):
I LABEL(S) LOCATED INSIDE DC DISCONNECT

PHOTOVOLTAIC
DC DISCONNECT

NEC 690.13(B):
I PLACARD(S) LOCATED ON DC DISCONNECT

PHOTOVOLTAIC
AC DISCONNECT

NEC 690.13(B):
I PLACARD(S) LOCATED AT AC DISCONNECT

PHOTOVOLTAIC AC DISCONNECT
MAXIMUM AC OPERATING CURRENT: 47.50A
NOMINAL OPERATING AC VOLTAGE: 240V

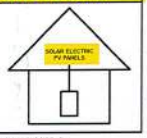
NEC 690.54:
I PLACARD(S) LOCATED ON AC DISCONNECT

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

NEC 690.56(C)(2):
I PLACARD LOCATED ON EXTERIOR AC DISCONNECT

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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



NEC 690.12 & 690.56(C)(1)(A):
I PLACARD LOCATED AT RAPID SHUTDOWN SERVICE DISCONNECT

⚠ WARNING
POWER SOURCE
OUTPUT CONNECTION
DO NOT RELOCATE

NEC 705.12(B)(2)(3)(B):
I LABEL LOCATED AT PV BREAKER

REC

UTILITY REQUIREMENT:
I PLACARD LOCATED ON PV PRODUCTION METER

BACKED UP
LOADS PANEL

I PLACARD LOCATED AT BACKED UP LOADS PANEL

PANEL FED BY PV,
BATTERY, AND UTILITY

NEC 705.12(D)(4):
I PLACARDS LOCATED ON MAINS PANEL AND ANY SUBPANEL

BIDIRECTIONAL
PRODUCTION METER
BETWEEN INVERTER
AND MAIN PANEL

I LABEL AT PRODUCTION METER I

SINGLE DIRECTION
PRODUCTION METER
BETWEEN INVERTER AND
BACKUP UP LOADS PANEL

I LABEL AT PRODUCTION METER 2

****ALL PLACARDING TO COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE****

solar impact
namasté SOLAR
DESIGNER CONTRACTOR

BARRY M JACOBSON
LICENSE
No 51402
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
2021.12.19 15:29:39 -05'00'

DESIGNER: HARRISON ORY

FLINK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL. 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.56kW DC, 11.0kW AC
- 30 HANWHA Q.PEAK DUO G8 350, 350W MODULES
- 1 SOLAREDGE SE11400-US INVERTER
- 1 TESLA POWERWALL 2, 13.5kWh BATTERIES

CONTACT: BRIAN LEVERETTE
- BRIAN.LEVERETTE@SOLARIMPACT.COM
- 352.727.0022

PLACARDS
NOT TO SCALE
PV-P.1