

SYSTEM INFORMATION	
MODULE	HANWHA Q.PEAK DUO BLK-G10+ 360
INVERTER	ENPHASE IQ7-60-2-US
RACKING	ROOFTECH RT-MINI II W/ ECOFASTEN CLICKFIT RAIL RACKING SYSTEM
SYSTEM SIZE (DC)	20.16 KW
LOCATION	30.0018333,-82.5928079

GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-16, 7TH EDITION 2020 FLORIDA RESIDENTIAL CODE, 7TH EDITION 2020 FLORIDA BUILDING CODE, 7TH EDITION 2020 FLORIDA FIRE PREVENTION CODE, NEC 2017 AND ALL LOCAL CODES & ORDINANCES.

ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE SOLAR EQUIPMENT.

INSTALLATION OF SOLAR EQUIPMENT SHALL BE FLUSH MOUNTED, PARALLEL TO AND NO MORE THAN 6-INCHES ABOVE THE SURFACE OF THE ROOF.

ANY PLUMBING VENTS ARE NOT TO BE CUT OR COVERED FOR SOLAR EQUIPMENT INSTALLATION. ANY RELOCATION OR MODIFICATION OF THE VENT REQUIRES A PLUMBING PERMIT AND INSPECTION.

ALL DESIGN, CALCULATIONS ARE PERFORMED BY DANIEL DUNZIK REGISTERED ARCHITECT. FLORIDA STATE STATUTE 471.003(3) PROVIDES THAT LICENSED ARCHITECTS ARE EXEMPTED FROM THE PROVISIONS OF CHAPTER 471 ENGINEERING AND NOT PRECLUDED FROM PERFORMING ENGINEERING SERVICES FOR INTEGRATED SYSTEMS AND SERVICES THAT ARE INCIDENTAL TO BUILDINGS AND STRUCTURES.

INVERTER PLACEMENT:

SYSTEM UTILIZES "ENPHASE" MICRO-INVERTERS WITH RAPID SHUTDOWN CONTROL LOCATED ON THE BACK SIDE OF EACH MODULE.

STRUCTURAL STATEMENT:

THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR.EXISTING RAFTER SIZES & DIMENSIONS CONFORM TO 7TH EDITION 2020 FLORIDA RESIDENTIAL CODE

MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED FLORIDA CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.

FSEC CERTIFICATION STATEMENT:

PER FL. STATUE 377.705 , I, MINA A. MAKAR PE# 86753, CERTIFICATE OF AUTHORIZATION #33404, AN ENGINEER LICENSED PURSUANT TO CHAPTER 471,CERTIFY THAT THE PV ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE DESIGNED AND APPROVED USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE. FBC 2020

CLIMATIC & GEOGRAPHIC DESIGN CRITERIA TABLE R301.2(1)	
SPEED (MPH)	120
TOPOGRAPHIC EFFECTS	B
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	C
CLIMATE ZONE	2A
WIND EXPOSURE CATETORY	B

FBC, RESIDENTIAL 2020

TABLE R301.2.1.3											
WIND SPEED CONVERSIONS ^a											
V _{ult}	110	115	120	130	140	150	160	170	180	190	200
V _{asd}	85	89	93	101	108	116	124	132	139	147	155

For SI: 1 mile per hour = 0.447 m/s.

- a. Linear interpolation is permitted.

<div><div></div></div> <div>HANWHA Q.PEAK DUO BLK-G10+ 360 360 WATT MODULE 67.6" X 41.1" X 1.26" (SEE DATASHEET)</div>
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PLAN KEY	
PV-1	COVER PAGE
PV-1.1	ATTACHMENT DETAIL
PV-2	ROOF LAYOUT
PV-3	ELECTRICAL
PV-3.1	ELECTRICAL CONT.
PV-3.2	EQUIPMENT LABELS

BILL OF MATERIALS	
MODULES	56
INVERTERS	56
L-FOOT ATTACHMENT W/ RT-MINI	120
168" RAILS	23
SKIRTS	17
ENPHASE COMBINER BOX	1
EATON 100A FUSIBLE AC DISCONNECT	1
70A FUSES	2
125A LINE TAPS	2



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SOLAR CONTRACTOR
CAMERON CHRISTENSEN
CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036
MOMENTUM SOLAR
5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION
SHARON ROBISON - MS99027
242 SE OCTOBER RD
LAKE CITY, FL 32025
3867196729

PV SYSTEM INFORMATION
SYSTEM SIZE (DC): 20.16 KW
56 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 360
56 INVERTERS: ENPHASE IQ7-60-2-US

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REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

COVER PAGE

PV-1

SCALE: 3/32" = 1'-0"

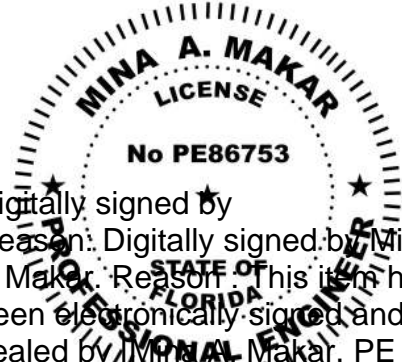


ROOF	PANEL COUNT	TILT	AZIMUTH	SHADING	LANDSCAPE MAX SPAN (ROOF AREA 1/2/3)	PORTRAIT MAX SPAN (ROOF AREA 1/2/3)	LANDSCAPE MAX CANTILEVER	PORTRAIT MAX CANTILEVER
R1	19	14°	84°	83%	48 /32 /32	48 /32 /32	16 /10 /10	16 /10 /10
R2	37	14°	264°	92%	48 /32 /32	48 /32 /32	16 /10 /10	16 /10 /10



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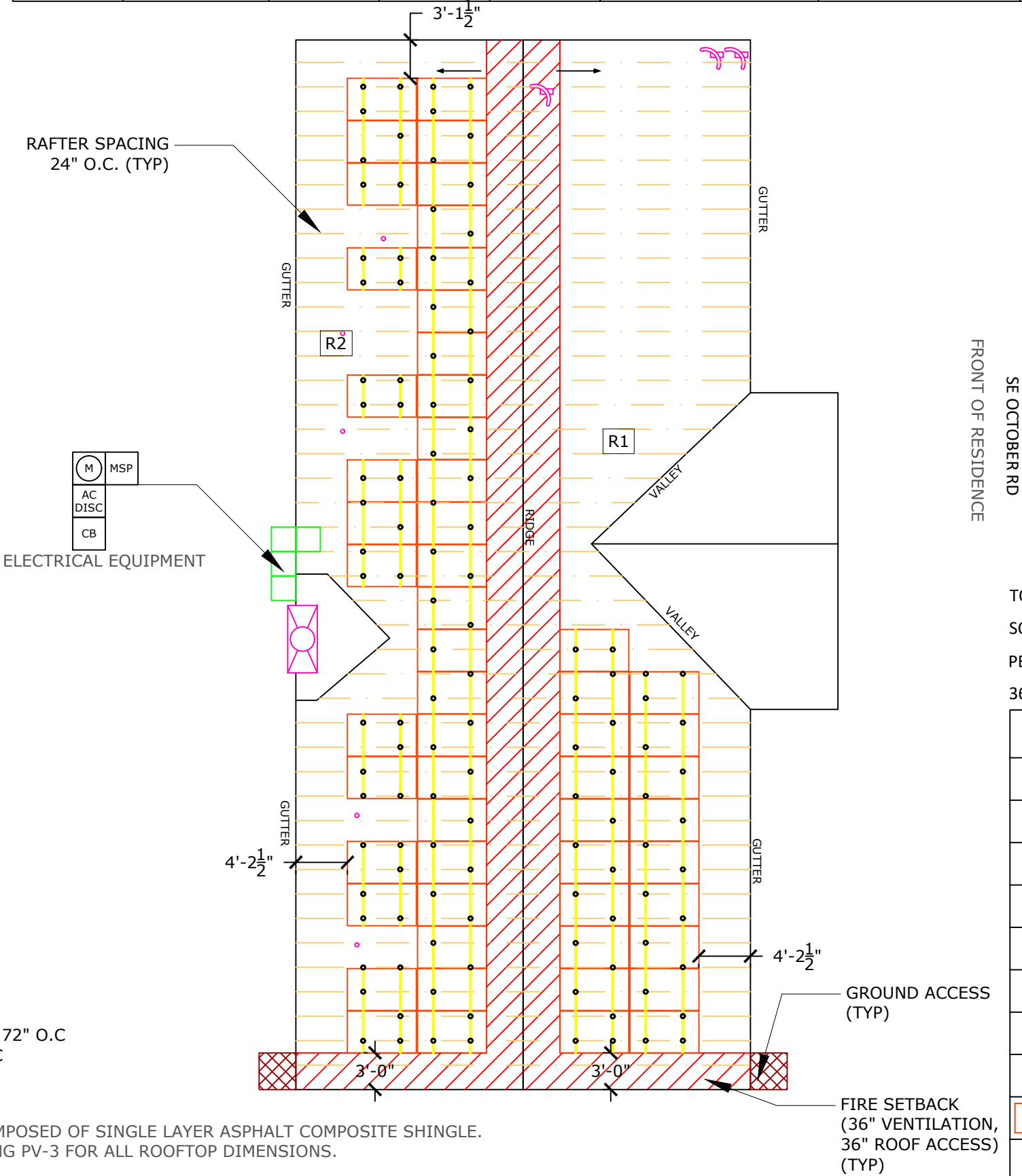
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ROOF LAYOUT

PV-2



TOTAL SQUARE FOOTAGE OF ROOF: 3190 SQFT
SQUARE FOOTAGE OF SOLAR ARRAY:1080.48 SQFT
PERCENTAGE OF SOLAR ROOF COVERAGE: 33.88%
36" RIDGE SETBACK SHALL BE REQUIRED

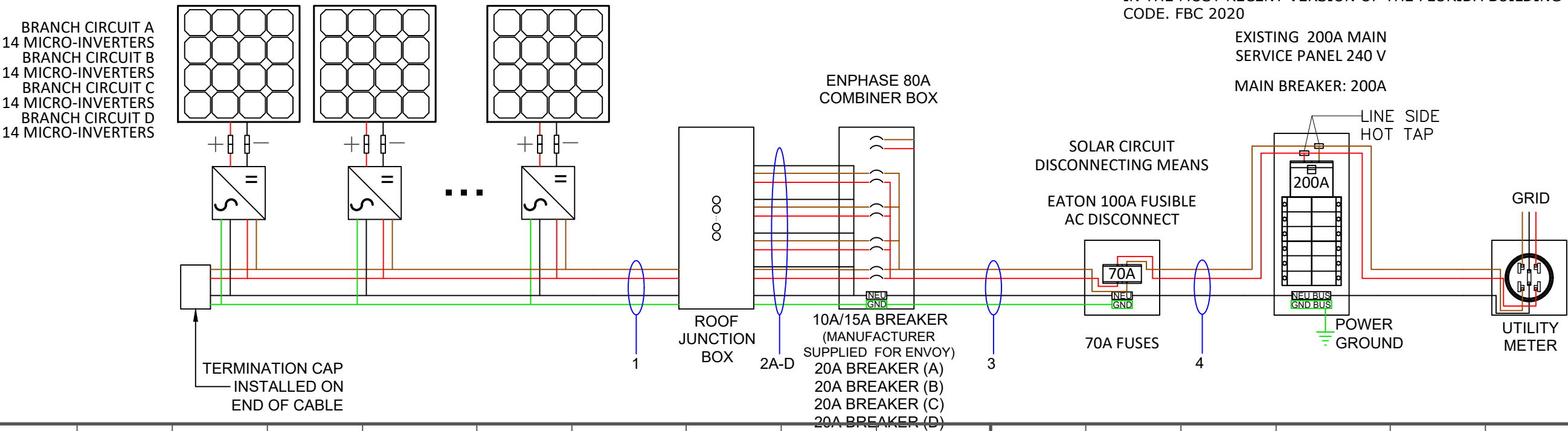
SYMBOL LEGEND			
MSP	MAIN SERVICE PANEL		CHIMNEY
SP	SUB-PANEL		SKYLIGHT
M	UTILITY METER		VENT
AC DISC	AC DISCONNECT		PIPE VENT
UDC	UTILITY DISCONNECT		FAN
LC	LOAD CENTER		SATELLITE DISH
N3R	NEMA 3R BOX W/ ENVOY-S		FIRE SETBACKS
CB	COMBINER BOX		MIN 3'x3' GROUND ACCESS POINT
	MODULE		PITCH DIRECTION
		WIND PRESSURE ZONE LINES. REFER TO PV-2.2 FOR ADDITIONAL INFO	

PV MODULE RATINGS			INVERTER RATINGS		VOLTAGE DROP CALCULATIONS							
MODULE MAKE	HANWHA		INVERTER MAKE	ENPHASE	FORMULA USED PER NEC HANDBOOK 215.2(A)(4) WHERE APPLICABLE							
MODEL	Q.PEAK DUO BLK-G10+ 360		MODEL	IQ7-60-2-US	WIRE RUN	V _{mp}	I _{mp}	R	L (FT)	V _o	% V _o	WIRE SIZE
MAX POWER	360W		MAX OUTPUT POWER	240W	BRANCH TO J-BOX	240.00	14	1.98	92.17	5.110	2.13%	12 AWG
OPEN CIRCUIT VOLTAGE	41.18V		OPEN DC VOLTAGE	48V	J-BOX TO LOAD CENTER	240.00	56	1.24	50.00	6.944	2.89%	10 AWG
MPP VOLTAGE	34.31V		NOMINAL AC VOLTAGE	240V	LOAD CENTER TO AC DISCONNECT	240.00	70	0.308	3.00	0.129	0.05%	04 AWG
SHORT CIRCUIT CURRENT	11.04A		MAX AC CURRENT	1A	AC DISCONNECT TO INTERCONNECTION	240.00	70	0.308	10.00	0.431	0.18%	04 AWG
MPP CURRENT	10.49A		CEC INVERTER EFFICIENCY	97%								
NUMBER OF MODULES	56		NUMBER OF INVERTERS	56								
UL1703 COMPLIANT	YES		UL1703 COMPLIANT	YES								

SUB PANEL BREAKER SIZE	# OF MODULES	PV BREAKER PER BRANCH
	UP TO 16	20A

THIS SOLAR PHOTOVOLTAIC SYSTEM COMPLIES WITH THE 2020
FLORIDA BUILDING CODE AND THE 2017 NATIONAL ELECTRICAL CODE

56 HANWHA Q.PEAK DUO BLK-G10+ 360 360W MODULES PAIRED WITH
56 ENPHASE IQ7-60-2-US MICRO-INVERTERS



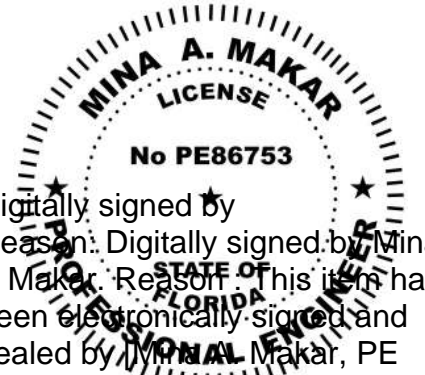
Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	4	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	14	1	1.25	17.50	12 AWG	Trunk Cable
2A	3/4" PVC	8	10 AWG	THWN-2	75°C	35	0.96	0.7	23.52	14	1	1.25	17.50	08 AWG	THWN-2
2B			10 AWG	THWN-2	75°C	35	0.96		23.52	14	1	1.25	17.50		
2C			10 AWG	THWN-2	75°C	35	0.96		23.52	14	1	1.25	17.50		
2D			10 AWG	THWN-2	75°C	35	0.96		23.52	14	1	1.25	17.50		
3	1" PVC	3 + G	04 AWG	THWN-2	75°C	85	0.96	1	81.60	56	1	1.25	70.00	08 AWG	THWN-2
4	1" PVC	3	04 AWG	THWN-2	75°C	85	0.96	1	81.60	56	1	1.25	70.00		THWN-2

NOTE: LETTER "G" IN WIRE QTY TAB STANDS FOR GROUNDING CONDUCTOR.



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THREE LINE DIAGRAM

PV-3

ELECTRICAL NOTES:

1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C). THE GROUND IS CARRIED AWAY FROM THE GROUNDING LUG USING #6 BARE COPPER WIRE OR #8 THWN-2 COPPER WIRE.
3. THIS SYSTEM COMPLIES WITH NEC 2017
4. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS SHALL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN. IN ADDITION, VOLTAGE DROP CALCULATIONS FROM PANELS TO THE COMBINER BOX SHALL BE SHOWN IN A SIMILAR FASHION
5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATASHEET
8. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL LOCAL AND NATIONAL CODE REQUIREMENTS.
9. EACH MODULE MUST BE GROUNDED ACCORDING TO USER INSTRUCTIONS
10. ALL EQUIPMENT SHALL BE LISTED PER NEC 690.4(B)
11. PER NEC 690.13, 690.15, PROVIDE A WARNING SIGN AT ALL LOCATIONS WHERE TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION> SIGN SHALL READ *WARNING - ELECTRIC SHOCK HAZARD - DO NOT TOUCH TERMINALS - OR EQUIVALENT.
12. PER NEC 705.10, PROVIDE A PERMANENT PLAQUE OR DIRECTORY SHOWING ALL ELECTRIC POWER SOURCES ON THE PREMISES AT SERVICE ENTRANCE.
13. INTERCONNECTION METHOD SHALL COMPLY WITH NEC 705.12
14. AND OPTION FOR A SINGLE CIRCUIT BRANCH TO BE SPLIT INTO TWO SUB-CIRCUIT BRANCHES IS ACCEPTABLE.
15. ALL CONDUCTORS MUST BE COPPER.
16. NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR BONDED AS PER NEC 250.24(C).
17. EQUIPMENT GROUNDING CONDUCTOR IS CONNECTED TO A GROUNDING ELECTRODE SYSTEM PER 250.54(D).
18. FUSES FOR PV DISCONNECT HAVE AIC RATINGS OF 200KA AC AND 20KA DC.
19. SUPPLY SIDE CONNECTION SHALL BE MADE USING ILSKO INSULATION PIERCING CONNECTORS (IPC). MAKE, MODEL, AND RATING OF INTERCONNECTION CAN BE SEEN ON TABLE 1 BELOW.
20. METHOD OF INTERCONNECTION CAN BE SEEN IN FIGURE 1.
21. UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.

22. WORKING CLEARANCES AROUND THE EXISTING AND NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC ARTICLE 110.26.
23. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C)(1) AND ARTICLE 310.8 (D).
24. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C).
25. TOTAL AREA OF ALL CONDUCTORS, SPLICES, AND TAPS INSTALLED AT ANY CROSS SECTION OF THE WIRING DOES NOT EXCEED 75% OF THE CROSS SECTIONAL AREA OF THE SPACE. NEC 312.8(A)(2).
26. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPLIES WITH 690.6 - NO DC DISCONNECT AND ASSOCIATED DC LABELING ARE REQUIRED.
27. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED 690.52.
28. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS. 690.6.
29. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES WILL COMPLY WITH 250.64.
30. NO TERMINALS SHALL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.13, 690.15, 690.6.
31. WHERE APPLICABLE: INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B)
32. ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH 2017 NEC ARTICLE 110.21(B). LABEL WARNINGS SHALL ADEQUATELY WARN OF THE HAZARD. LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONMENT.
33. PV POWER CIRCUIT LABELS SHALL APPEAR ON EVERY SECTION OF THE WIRING SYSTEM THAT IS SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.

TABLE 1:

MAKE	MODEL	VOLTAGE RATING	CONDUCTOR RANGE MAIN	CONDUCTOR RANGE TAP
ILSCO	IPC 4006	600 V	4/0-4 AWG	6-14 AWG
ILSCO	IPC 4020	600 V	4/0-2 AWG	2/0-6 AWG

MAKE	MODEL	VOLTAGE RATING	CONDUCTOR RANGE MAIN	CONDUCTOR RANGE TAP
ILSCO	IPC 4006	600 V	4/0-4 AWG	6-14 AWG
ILSCO	IPC 4020	600 V	4/0-2 AWG	2/0-6 AWG

INSTRUCTIONS FOR LINE TAPS

FIGURE 1:

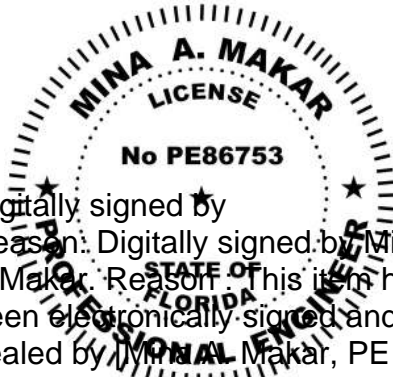
- 1. ADJUST THE CONNECTOR NUT TO SUITABLE LOCATION**
- 2. PUT THE BRANCH WIRE INTO THE CAP SHEATH FULLY**
- 3. INSERT THE MAIN WIRE, IF THERE ARE TWO LAYS OF INSULATED LAY IN THE MAIN CABLE, SHOULD STRIP A CERTAIN LENGTH OF THE FIRST INSULATED LAY FROM INSERTED END**
- 4. TURN THE NUT BY HAND, AND FIX THE CONNECTOR IN SUITABLE LOCATION.**
- 5. SCREW THE NUT WITH THE SLEEVE SPANNER.**
- 6. SCREW THE NUT CONTINUALLY UNTIL THE TOP PART IS CRACKED AND DROPPED DOWN**

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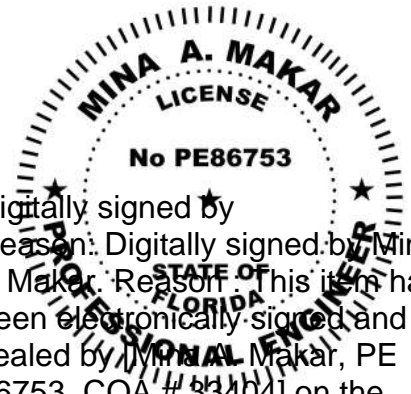



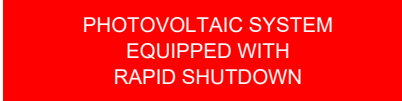
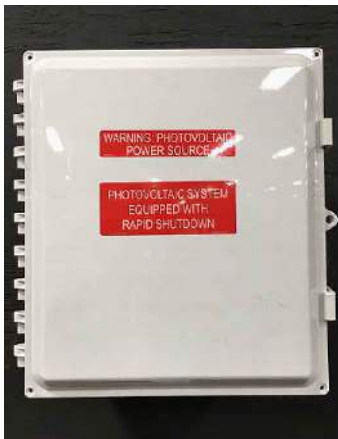
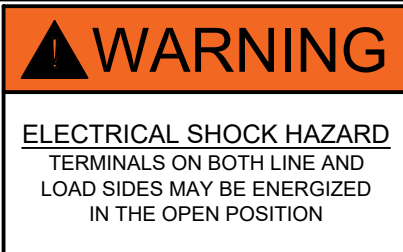

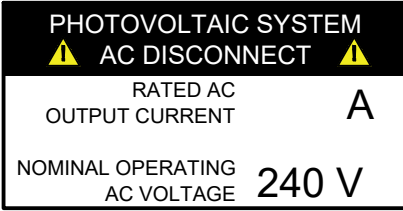
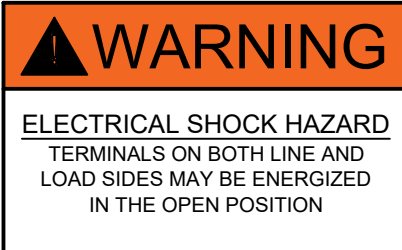

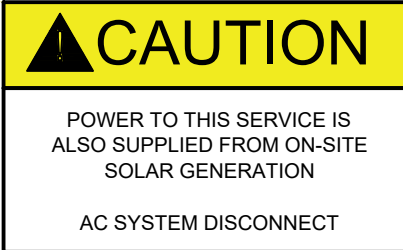

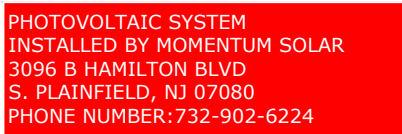



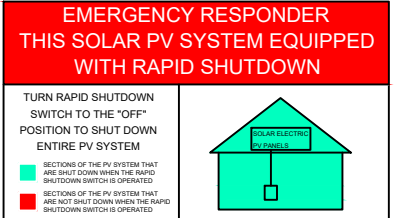
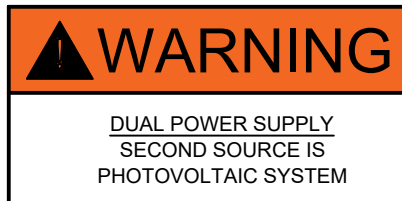



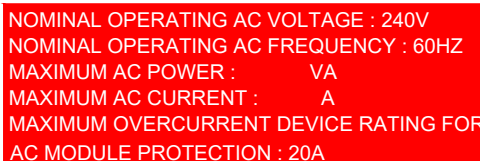
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ELECTRICAL CONT.

PV-3.1

ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC ARTICLE 110.21(B). LABEL WARNINGS SHALL ADEQUATELY WARN OF THE HAZARD. LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONMENT.						<div></div> <div>PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMSOLAR.COM</div> <div>PROFESSIONAL ENGINEERING</div> <div><div></div><div>Digitally signed by Reason: Digitally signed by Mina A Makar Reason: This item has been electronically signed and sealed by Mina A Makar, PE 86753, COA # 53404] on the Date and Time Stamp shown as a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies Date: 2022.05.03 02:05:13 -05:00</div><div>SOLAR CONTRACTOR CAMERON CHRISTENSEN CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036 MOMENTUM SOLAR 5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819</div><div>CUSTOMER INFORMATION SHARON ROBISON - MS99027 242 SE OCTOBER RD LAKE CITY, FL 32025 3867196729</div><div>PV SYSTEM INFORMATION SYSTEM SIZE (DC): 20.16 KW 56 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 360 56 INVERTERS: ENPHASE IQ7-60-2-US</div><div>PROJECT INFORMATION</div><table><tr><td>INITIAL</td><td>DATE: 4/28/2022</td><td>DESIGNER: AKL</td></tr><tr><td>REV:</td><td>DATE:</td><td>DESIGNER:</td></tr><tr><td>REV:</td><td>DATE:</td><td>DESIGNER:</td></tr></table><div>EQUIPMENT LABELS</div><div>PV-3.2</div></div>			INITIAL	DATE: 4/28/2022	DESIGNER: AKL	REV:	DATE:	DESIGNER:	REV:	DATE:	DESIGNER:
INITIAL	DATE: 4/28/2022	DESIGNER: AKL															
REV:	DATE:	DESIGNER:															
REV:	DATE:	DESIGNER:															
TAG	LABEL		QUANTITY	LOCATION	NOTE	EXAMPLES											
Ⓐ	<div></div>		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'												
Ⓑ	<div></div>	<div></div>	1	COMBINER BOX	1 AT ANY COMBINER BOX												
Ⓒ	<div></div>		1	JUNCTION BOX	1 AT ANY JUNCTION BOX												
Ⓓ	<div></div>	<div></div>	1	AC DISCONNECT (RSD SWITCH)	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL												
Ⓔ	<div></div>	<div></div> <div></div>															
Ⓕ	<div></div>		1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD												
Ⓖ	<div></div>	<div></div>	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD												
Ⓗ	<div></div>		1	BACKFEED PANEL													
Ⓘ	<div></div>		1	AC CURRENT PV MODULES		