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)	15.12 KW					
LOCATION	30.1848514,-82.7050791					

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

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					

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

FBC, RE	SIDENTIAL	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.

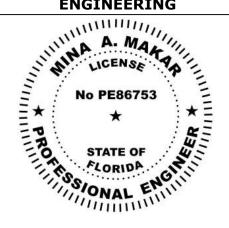
HANWHA Q.PEAK DUO BLK-G10+ 360 360 WATT MODULE 67.6" X 41.1" X 1.26" (SEE DATASHEET)

BILL OF MATERIALS	
MODULES	42
INVERTERS	42
L-FOOT ATTACHMENT W/ RT-MINI	108
168" RAILS	17
SKIRTS	16
ENPHASE COMBINER BOX	1
EATON 60A FUSIBLE AC DISCONNECT	1
60A FUSES	2
125A LINE TAPS	2



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33404] on the Date and Time Stamp
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Date: 2022.04.06 05:04:45 -05:00

SOLAR CONTRACTOR

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

CUSTOMER INFORMATION

BRYAN FANNON - MS96415 243 NORTHWEST FOREST MEADOWS AVENUE

LAKE CITY, FL 32055

PV SYSTEM THE BRANTION

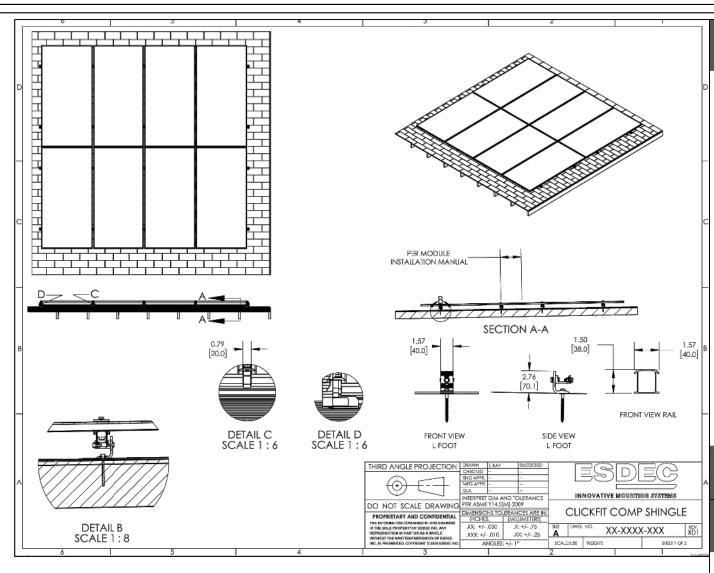
SYSTEM SIZE (DC): 15.12 KW 42 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 360

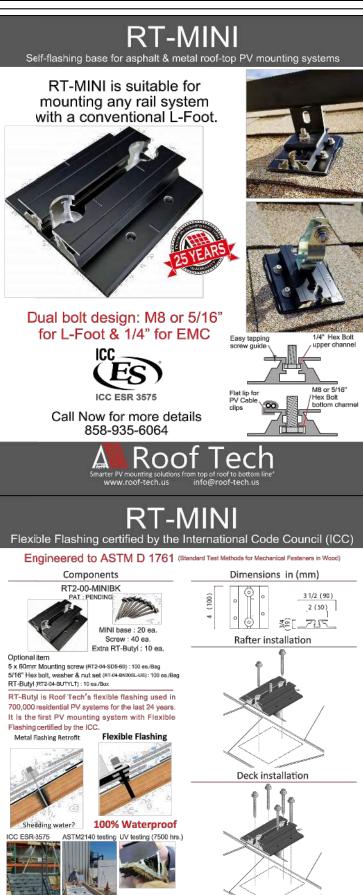
42 INVERTERS: ENPHASE IQ7-60-2-US

	PROJECT INFORMATION								
NITIAL	DATE: 3/29/2022	DESIGNER: SMMJ							
EV:	DATE:	DESIGNER:							
EV:	DATE:	DESIGNER:							

COVER PAGE

PV-1

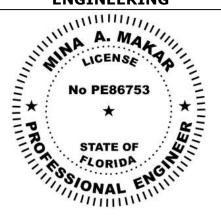






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CAMEROIN CHRISTENSEN
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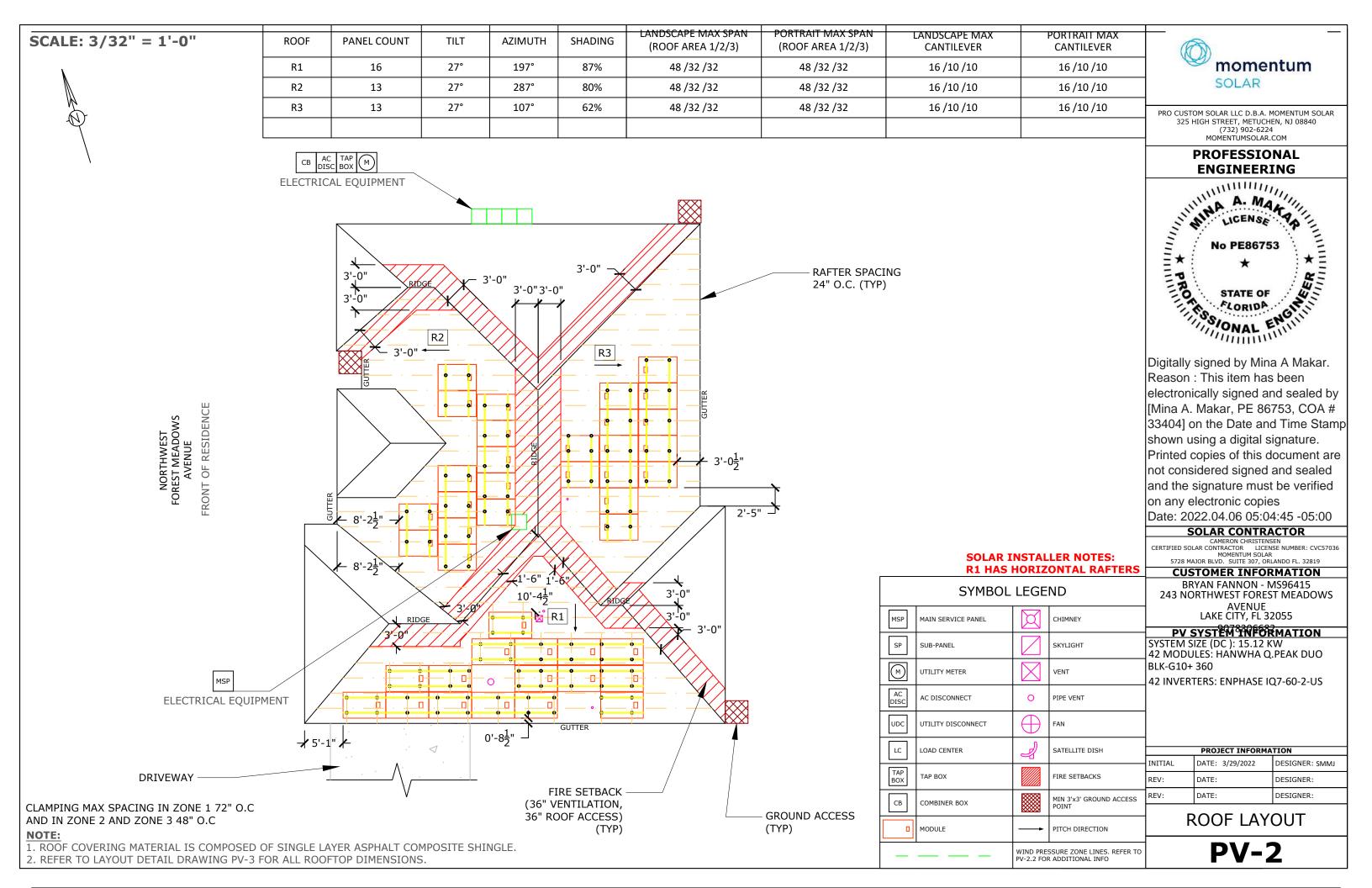
42 INVERTERS: ENPHASE IQ7-60-2-US

PROJECT INFORMATION								
INITIAL	DATE: 3/29/2022	DESIGNER: SMMJ						
REV:	DATE:	DESIGNER:						
REV:	DATE:	DESIGNER:						

ATTACHMENT DETAIL

PV-1.1

Roof Tech Inc. www.roof-tech.us info@roof-tech.us 10620 Treena Street, Suite 230, San Diego, CA 92131 858.935.6064



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	PV MODULE RAT	INGS	INVERTER RATINGS	VOLTAGE DROP CALCULATIONS									
	MODULE MAKE	HANWHA	INVERTER MAKE	R 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)	Vo	% V _o	WIRE SIZE	
	MAX POWER	360W	MAX OUTPUT POWER	240W	BRANCH TO J-BOX	240.00	16	1.98	105.33	6.674	2.78%	12 AWG	<u> </u>
	OPEN CIRCUIT VOLTAGE	41.18V	OPEN DC VOLTAGE	48V	J-BOX TO LOAD	240.00	42	1.24	50.00	5.208	2.17%	10 AWG	PR
•	MPP VOLTAGE	34.31V	NOMINAL AC VOLTAGE	240V	CENTER LOAD CENTER TO AC		·-						
	SHORT CIRCUIT CURRENT	11.04A	MAX AC CURRENT	1A	DISCONNECT	240.00	52.5	0.491	3.00	0.155	0.06%	06 AWG	
	MPP CURRENT	10.49A	CEC INVERTER EFFICIENCY	97%	AC DISCONNECT TO INTERCONNECTION	240.00	52.5	0.491	10.00	0.516	0.21%	06 AWG	
	NUMBER OF MODULES	42	NUMBER OF INVERTERS	42	INTERCONNECTION								1

SUB PANEL BREAKER SIZE

UL1703 COMPLIANT

OF MODULES PV BREAKER
PER BRANCH THIS SOLAR PH
FLORIDA BUILD

YES

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

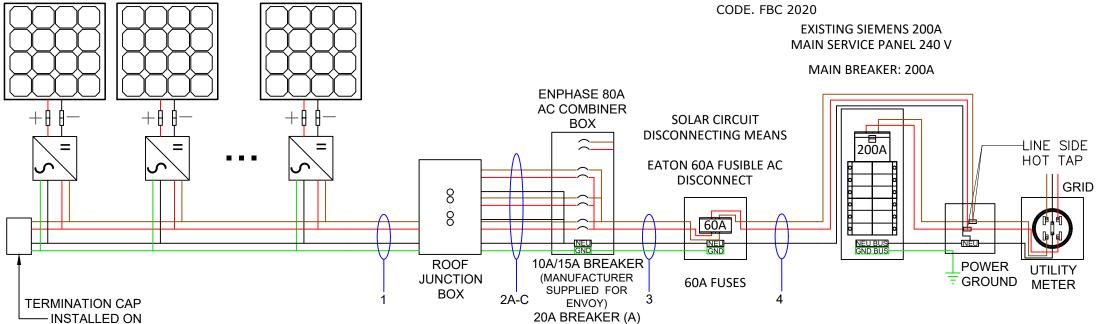
YES

42 HANWHA Q.PEAK DUO BLK-G10+ 360 360W MODULES PAIRED WITH 42 ENPHASE IQ7-60-2-US MICRO-INVERTERS

END OF CABLE

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

BRANCH CIRCUIT A
16 MICRO-INVERTERS
BRANCH CIRCUIT B
13 MICRO-INVERTERS
BRANCH CIRCUIT C
13 MICRO-INVERTERS



20A BREAKER (B)

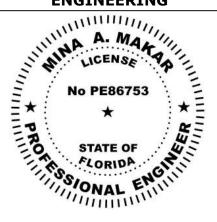
20A BREAKER (C)

																⅃ℴ
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]4
1	OPEN AIR	3	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	16	1	1.25	20.00	12 AWG	Trunk Cable	1
2A			10 AWG	THWN-2	75°C	35	0.96		26.88	16	1	1.25	20.00	08 AWG	THWN-2	F
2B	3/4" PVC	6	10 AWG	THWN-2	75°C	35	0.96	0.8	26.88	13	1	1.25	16.25	08 AWG	THWN-2	IN
2C			10 AWG	THWN-2	75°C	35	0.96		26.88	13	1	1.25	16.25	08 AWG	THWN-2	RE
3	3/4" PVC	3 + G	06 AWG	THWN-2	75°C	65	0.96	1	62.40	42	1	1.25	52.50	08 AWG	THWN-2	Ţ-
4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	42	1	1.25	52.50		THWN-2	\vdash

momentum

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FSEC CERTIFICATION STATEMENT:
PER FL. STATUE 377.705 , I, MINA A. MAKAR PE# 86753,

SOLAR INSTALLER NOTES:

EXTERIOR TAP BOX INSTALLATION REQUIRED

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

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SOLAR CONTRACTOR

CAMEROIN CHRISTEINSEN

CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036

MOMENTUM SOLAR

5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

BRYAN FANNON - MS96415 243 NORTHWEST FOREST MEADOWS AVENUE LAKE CITY, FL 32055

PV SYSTEM TNFORMATION

SYSTEM SIZE (DC): 15.12 KW 42 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 360

42 INVERTERS: ENPHASE IQ7-60-2-US

PROJECT INFORMATION								
DATE: 3/29/2022	DESIGNER: SMMJ							
DATE:	DESIGNER:							
DATE:	DESIGNER:							
	DATE: 3/29/2022 DATE:							

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.
- 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 ILSCO 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,

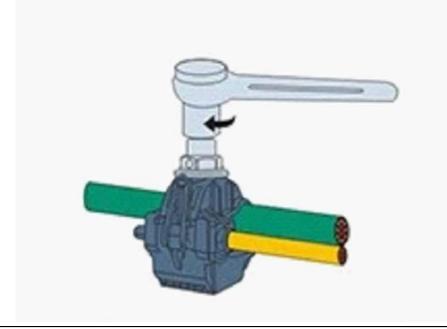
TABLE 1:

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

INSTRUCTIONS FOR LINE TAPS

FIGURE 1:

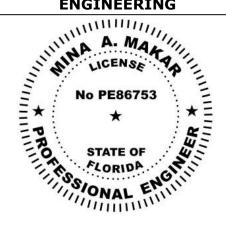
- ADJUST THE CONNECTOR NUT TO SUITABLE LOCATION
- 2. PUT THE BRANCH WIRE INTO THE CAP SHEATH FULLY
- 3. INSERT THE MAIN WIRE, IF THERE ARE TWO LAYS OF INSULATED LAY IN THE MAIN CABLE, SHOULD STRIP A CERTAIN LENGTH OF THE FIRST INSULATED LAY FROM INSERTED END
- TURN THE NUT BY HAND, AND FIX THE CONNECTOR 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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SOLAR CONTRACTOR

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

CUSTOMER INFORMATION

BRYAN FANNON - MS96415 243 NORTHWEST FOREST MEADOWS AVENUE LAKE CITY, FL 32055

PV SYSTEM TNFORMATION

SYSTEM SIZE (DC): 15.12 KW 42 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 360

42 INVERTERS: ENPHASE IQ7-60-2-US

PROJECT INFORMATION					
INITIAL	DATE: 3/29/2022	DESIGNER: SMMJ			
REV:	DATE:	DESIGNER:			
REV:	DATE:	DESIGNER:			

ELECTRICAL CONT.

PV-3.1

L .	. WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC ARTICLE 110.21(B). LABEL WARNINGS SHA	<u>-</u>			
TAG (A)	AC SOLAR VOLTAGE	QUANTITY 12	LOCATION AC CONDUITS	NOTE 1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'	SOLAR INSTALLER NOTES: EXTERIOR TAP BOX
B	WARNING: PHOTOVOLTAIC PHOTOVOLTAIC SYSTEM POWER SOURCE EQUIPPED WITH RAPID SHUTDOWN	1	COMBINER BOX	1 AT ANY COMBINER BOX	INSTALLATION REQUIRED
©	ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION	1	JUNCTION BOX	1 AT ANY JUNCTION BOX	
0	PHOTOVOLTAIC SYSTEM A AC DISCONNECT RATED AC OUTPUT CURRENT NOMINAL OPERATING AC VOLTAGE POWER TO THIS SERVICE IS ALSO SUPPLIED FROM ON-SITE SOLAR GENERATION AC SYSTEM DISCONNECT AC WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM INSTALLED BY MOMENTUM SOLAR 3096 B HAMILTON BLVD S. PLAINFIELD, NJ 07080 PHONE NUMBER: 732-902-6224	1	AC DISCONNECT (RSD SWITCH)	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	A CONTROL OF THE PARTY OF THE P
F	DUAL POWER SUPPLY SECOND SOURCE IS PHOTOVOLTAIC SYSTEM	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD	ECTRIC SHOCK HEARD DO NOT TOUTH TERMINALS TERMINA SO BROTH HE MILE NO DON SICK SAVE TO THROUGH IN THE OPEN POSITION MARKET SAVE BROTH THE MILE NO DON SICK SAVE TO THROUGH IN THE OPEN POSITION MARKET SAVE BROTH THE OPEN POSITION MARKET SAVE SAVE BROTH THE OPEN POSITION MARKET SAVE SAVE SAVE BROTH THE OPEN POSITION MARKET SAVE SAVE SAVE SAVE SAVE SAVE SAVE SAVE
© .	EMERGENCY RESPONDER THIS SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUT DOWN ENTIRE PV SYSTEM SECTIONS OF THE PV SYSTEM SECTIONS OF THE PV STEET HAT SECTIONS OF THE PV STEET SECTIONS OF THE PV STEET SECTIONS OF THE PV STEET HAT SECTIONS OF THE PV STEET HAT SECTIONS OF THE PV STEET HAT SECTIONS OF TH	1	INTERCO ONE DIRE	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD	CONTROL OF THE PROPERTY OF THE
H	POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE NOMINAL OPERATING AC VOLTAGE: 240V NOMINAL OPERATING AC FREQUENCY: 60HZ MAXIMUM AC POWER: VA MAXIMUM AC CURRENT: A MAXIMUM OVERCURRENT DEVICE RATING FOR	1	AC CURRENT PV MODULES		TZOcc CONTROL STATE OF THE STAT













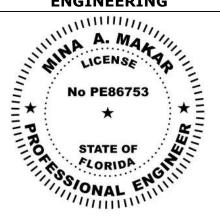


G BACKFEED



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PROFESSIONAL ENGINEERING



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RFV:	DATE:	DESIGNER:						

EQUIPMENT LABELS

PV-3.2