SYSTEM INFORMATION										
MODULE	HANWHA Q.PEAK DUO BLK ML-G10+ 400									
INVERTER	ENPHASE IQ8PLUS-72-2-US									
RACKING	ROOFTECH RT-MINI II W/ UNIRAC NXT HORIZON 2-RAIL RACKING SYSTEM									
SYSTEM SIZE (DC)	6 KW									
LOCATION	30.1456606,-82.6935883									

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 &

CLIMATIC & GEOGRAPHIC DES R301.2(1)	IGN CRITERIA TABLE
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-1.1 (2)	ATTACHMENT DETAIL
PV-2	ROOF LAYOUT
PV-3	ELECTRICAL
PV-3.1	ELECTRICAL CONT.
PV-3.2	EQUIPMENT LABELS

### FBC, RESIDENTIAL 2020

		TABLE R301.2.1.3												
	WIND SPEED CONVERSIONS <sup>a</sup>													
	V <sub>ult</sub> 110 115 120 130 140 150 160 170 180 190 200													
	$V_{asd}$	85	89	93	101	108	116	124	132	139	147	155		
F	For S	SI: I	1 mi	le p	er h	our	= 0	.447	' m/	s.				

a. Linear interpolation is permitted.

HANWHA Q.PEAK DUO BLK ML-G10+ 400 400 WATT MODULE 74" X 41.1" X 1.26" (SEE DATASHEET)

BILL OF MATERIALS	
MODULES	15
INVERTERS	15
L-FOOT ATTACHMENT W/ RT-MINI	29
171" RAILS	7
SKIRTS	0
ENPHASE COMBINER BOX	1
EATON 60A FUSIBLE AC DISCONNECT	1
35A FUSES	2
125A LINE TAPS	2

# ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE 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:**

**GENERAL NOTES:** 

ORDINANCES.

SOLAR EQUIPMENT.

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

## **STRUCTURAL STATEMENT:**

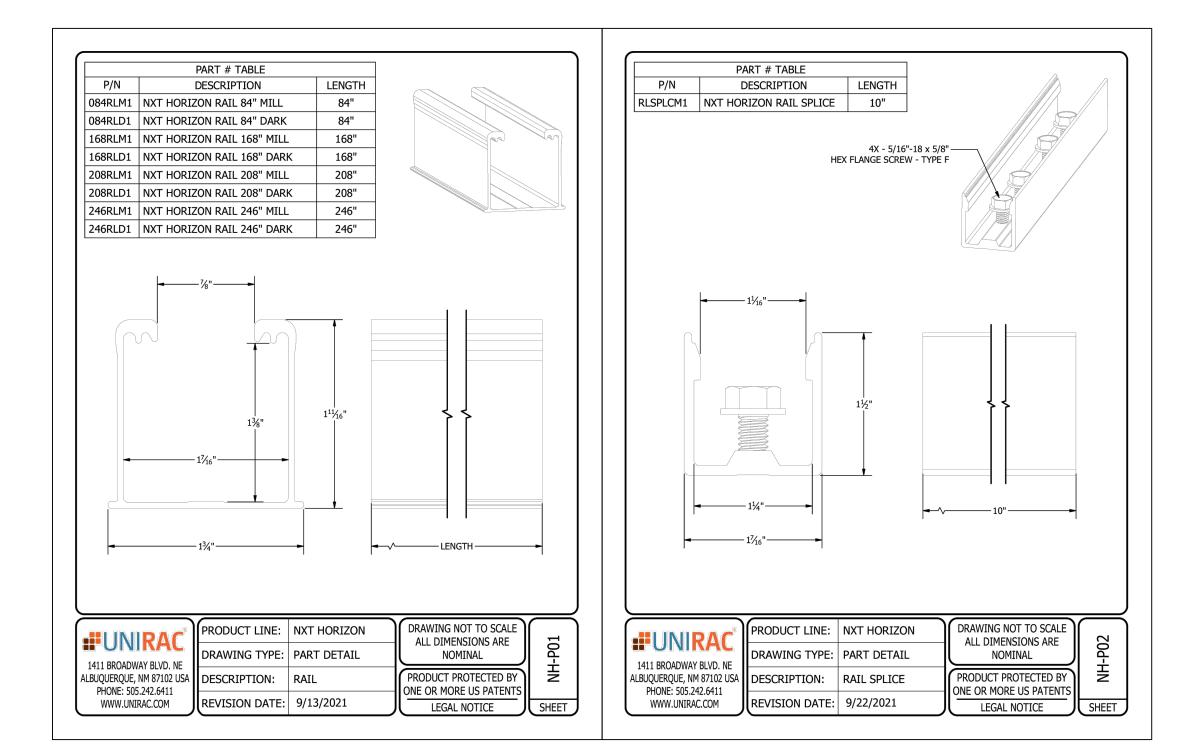
THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR.EXISTING RAFTER SIZES & DIMENSIONS CONFORM TO 7TH EDITION 2020 FLORIDA RESIDENTIAL CODE

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

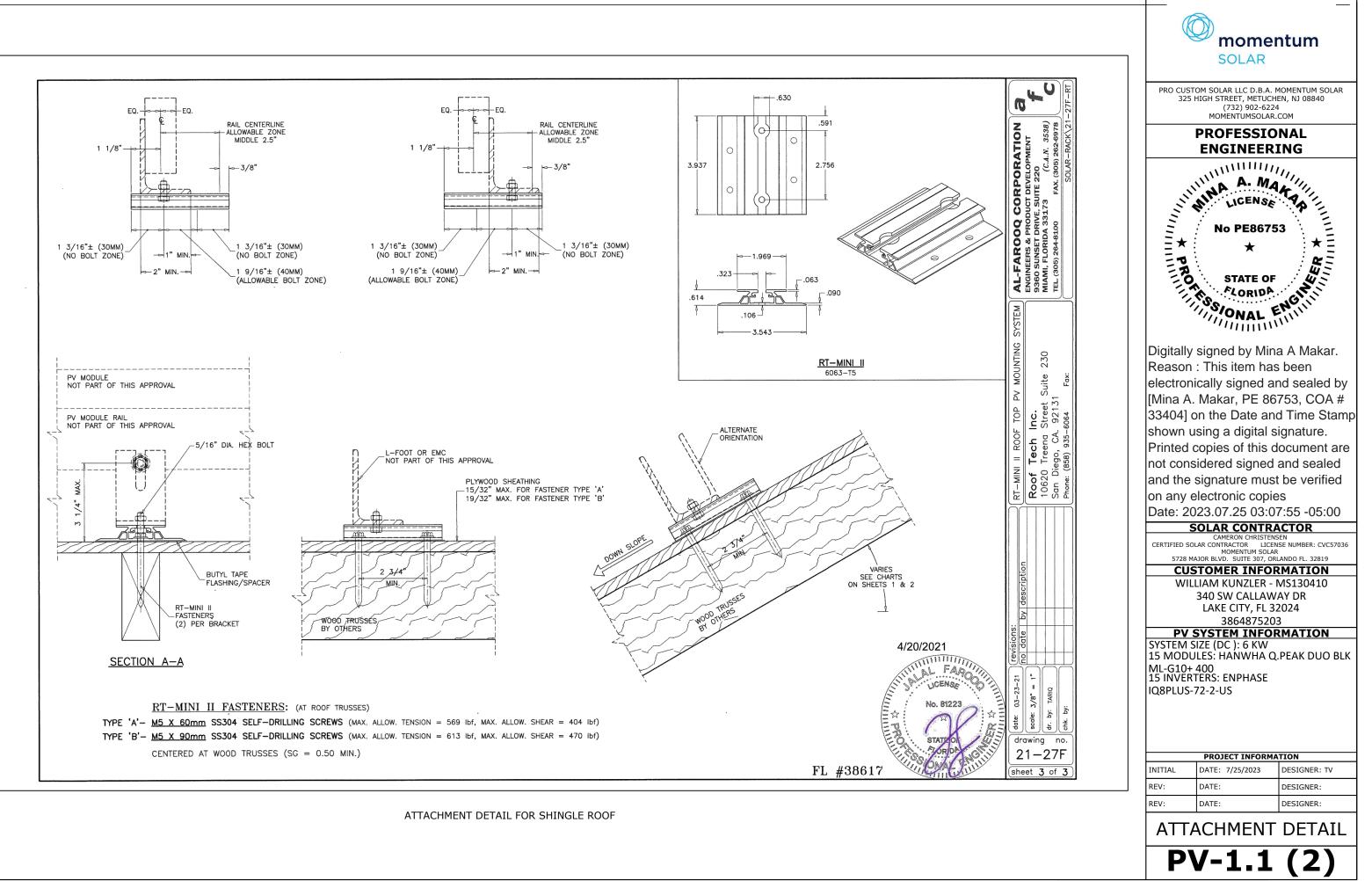
## **FSEC CERTIFICATION STATEMENT:**

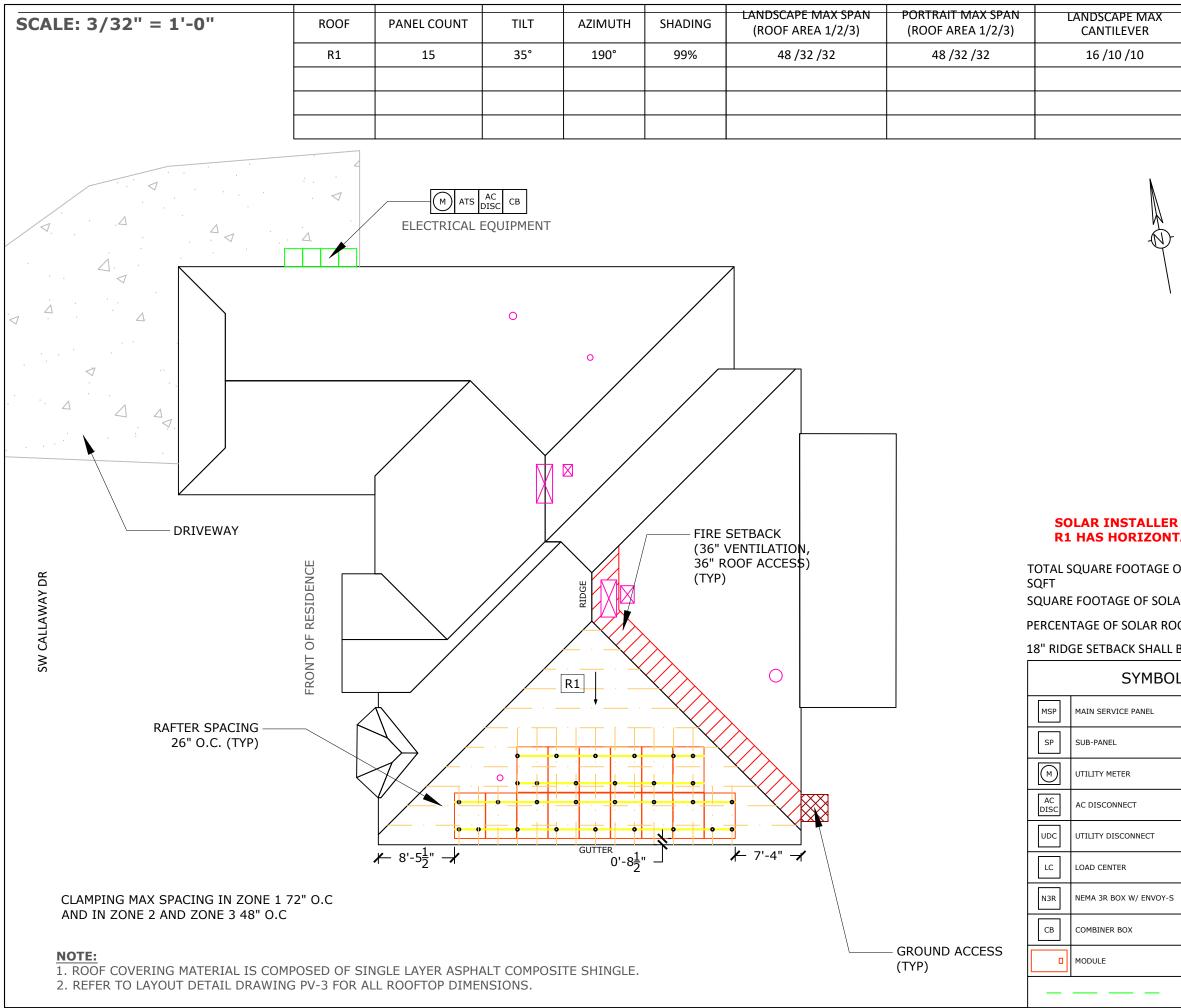
PER FL. STATUE 377.705, I, MINA A. MAKAR PE# 86753, CERTIFICATE OF AUTHORIZATION #33404, AN ENGINEER LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE DESIGNED AND APPROVED USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING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

1											
Ø	mome	ntum									
PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMSOLAR.COM											
PROFESSIONAL ENGINEERING A. MA LICENSE No PE86753											
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Digitally	signed by Min	a A Makar.									
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	CAMERON CHRISTEN LAR CONTRACTOR LICEI	SEN NSE NUMBER: CVC57036									
	MOMENTUM SOLAI NOR BLVD. SUITE 307, OR	2									
	<b>TOMER INFO</b>										
	340 SW CALLAW	AY DR									
	LAKE CITY, FL 3										
PV S	386487520 SYSTEM INFO										
	IZE (DC ): 6 KW LES: HANWHA Q										
ML-G10+	400										
IQ8PLUS-	TERS: ENPHASE 72-2-US										
	PROJECT INFORM										
INITIAL REV:	DATE: 7/25/2023	DESIGNER: TV DESIGNER:									
REV:	DATE:	DESIGNER:									
	COVER P	AGE									
	DV-1										









PORTRAIT MAX CANTILEVER	G	<i>A</i>	
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		OM SOLAR LLC D.B.A. N	
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L LEGEND		LIAM KUNZLER - I 340 SW CALLAW	
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CHIMNEY	PV 4	3864875203 SYSTEM INFOR	
SKYLIGHT	SYSTEM S	IZE (DC ): 6 KW LES: HANWHA Q	
VENT	ML-G10+		
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SATELLITE DISH		PROJECT INFORMA	TION
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FIRE SETBACKS	REV:	DATE:	DESIGNER:
MIN 3'x3' GROUND ACCESS	REV:	DATE:	DESIGNER:
PITCH DIRECTION	F	ROOF LAY	OUT
WIND PRESSURE ZONE LINES. REFER TO PV-2.2 FOR ADDITIONAL INFO		PV-2	2
			_

	PV MODULE RA	TINGS		INVE	RTER RATINGS					VOLTA	GE DROP CAL	CULATIONS					$\bigcirc$	—
MODU	LE MAKE	HANW	НА	INVERTER M	1AKE	ENPHASE			FORMULA US	ED PER NEC	HANDBOOK 2	15.2(A)(4) W	HERE APPLICAB	LE		(	$\bigcirc$	
MC	DDEL	Q.PEAK DL ML-G10+		MODEL		IQ8PLUS-72-2- US	WIRE	RUN	V <sub>mp</sub>	I <sub>mp</sub>	R	L (FT)	Vo	% V <sub>o</sub>	WIRE SIZE		SOLA	nentum R
MAX	POWER	400V		MAX OUTPUT	POWER	290W	BRANCH T	O J-BOX	240.00	9.68	1.98	52.67	2.019	0.84%	12 AWG			.B.A. MOMENTUM SOLAR
OPEN CIRCU	UIT VOLTAGE	45.3	/	OPEN DC VOI	TAGE	60V	J-BOX TO CENT		240.00	18.15	1.24	50.00	2.251	0.94%	10 AWG		5 HIGH STREET, ME (732) 902 MOMENTUMS	TUCHEN, NJ 08840
	OLTAGE	37.13		NOMINAL AC V	OLTAGE	240V	LOAD CENT	ER TO AC	240.00	22.6875	0.778	3.00	0.106	0.04%	08 AWG	_	PROFESS	
		11.14		MAX AC CUR		1.21A	DISCON AC DISCON										ENGINE	
	URRENT	10.77	A	CEC INVERTER EF		97%	INTERCON		240.00	22.6875	0.491	10.00	0.223	0.09%	06 AWG		11111 A.A.	MANU
UL1703 C	OMPLIANT	YES		NUMBER OF IN		15 YES	-										WIN LICEN	SEAP
8 MICRO-I	CIRCUIT A NVERTERS CIRCUIT B	MODULES TO 16 15 HANV		THIS SOL FLORIDA	BUILDING CC 0+ 400 400W N -2-US MICRO-I	VITAIC SYSTEM ( DDE AND THE 20 MODULES PAIREE NVERTERS	17 NATIONAL			NER SI DISCO EATO EATO EAKER JRER FOR 3 ER (A)	PER FL. CERTIFI LICENSI ELECTR DESIGN IN THE	STATUE 377. CATE OF AUT ED PURSUANT ICAL SYSTEM ED AND APPF MOST RECENT BC 2020 UT ME G ANS AC	T VERSION OF T	. MAKAR PE# 33404, AN E 71,CERTIFY AL COMPONE HE STANDAR THE FLORIDA XISTING SIEN SUB PANEI MAIN BREAK	* 86753, NGINEER THAT THE PV ENTS ARE DS CONTAINED MENS 200A L 240 V ER: 200A POWER TOWER TOWER TOWER	Digitall Reaso electro [Mina / 33404] shown Printec not cor and the on any Date: 2 CERTIFIED 5728 CL W W SYSTEM 15 MOD ML-G10 15 INVE	y signed by n : This item nically signed A. Makar, PE on the Date using a digit copies of th sidered sign e signature n electronic c 2023.07.25 0 SOLAR CONTRACTOR MAJOR BLVD. SUITE 3 SOLAR CONTRACTOR MAJOR BLVD. SUITE 3 SOLAR CONTRACTOR MAJOR BLVD. SUITE 3 STOMER IN ILLIAM KUNZLI 340 SW CALL LAKE CITY, 386487 SIZE (DC ): 6 K DULES: HANWH	oF Nina A Makar. has been d and sealed by 86753, COA # and Time Stamp al signature. is document are ned and sealed nust be verified opies 3:07:55 -05:00 TRACTOR ISTENSEN LICENSE NUMBER: CVC57036 SOLAR 07, ORLANDO FL. 32819 FORMATION FR - MS130410 AWAY DR FL 32024 5203 FORMATION W IA Q.PEAK DUO BLK
Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type		Wire Ampacity (A)	Derate F	Conduit ill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type			
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	8	1.21	1.25	12.10	12 AWG	Trunk Cable	INITIAL	DATE: 7/25/202	
2A	3/4" PVC	4	10 AWG	THWN-2	75°C	35	0.96	0.8	26.88	8	1.21	1.25	12.10	08 AWG	THWN-2	REV:	DATE:	DESIGNER:
2B	0/4/1 01/10		10 AWG	THWN-2	75°C	35	0.96		26.88	7	1.21	1.25	10.59	00.000		REV:	DATE:	DESIGNER:
3	3/4" PVC	3 + G	08 AWG	THWN-2	75°C	50	0.96	1	48.00	15	1.21	1.25	22.69	08 AWG	THWN-2		EE LINE	DIAGRAM
4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	15	1.21	1.25	22.69		THWN-2	L	PV	-

	1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	8	1.21	1.25	12.10
	2A	3/4" PVC	Л	10 AWG	THWN-2	75°C	35	0.96	0.8	26.88	8	1.21	1.25	12.10
	2B	- 5/4 FVC	4	10 AWG	THWN-2	75°C	35	0.96	0.8	26.88	7	1.21	1.25	10.59
	3	3/4" PVC	3 + G	08 AWG	THWN-2	75°C	50	0.96	1	48.00	15	1.21	1.25	22.69
	4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	15	1.21	1.25	22.69
— T														

#### **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 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.

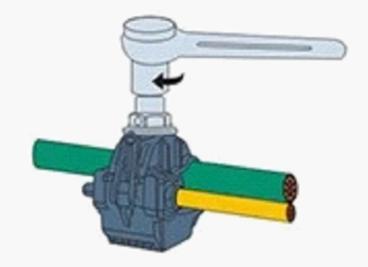
#### TABLE 1:

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:

- 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





AL	L WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC ARTICLE 110.21(B). LABEL WARNINGS SHALL	ADEQUATELY W	ARN OF THE HAZARD. LABE	LS SHALL BE PERMANENTLY AFFIXED TO THE	EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONM	ENT.
TAG	LABEL	QUANTITY	LOCATION	NOTE	EXAMPLES	
A	AC SOLAR VOLTAGE	12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'		
B	WARNING: PHOTOVOLTAIC POWER SOURCE POWER SOURCE	1	COMBINER BOX	1 AT ANY COMBINER BOX		
©	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		WARNING: PHOTOVOLTA/D POWER SOURCE PHOTOVOLTA/C SYSTEM EQUIPPED WITH RAPID SHUTDOWN
D	PHOTOVOLTAIC SYSTEM   Marchine     A C DISCONNECT   A     Nate of the system   A     NOMINAL OPERATING   240 V     Ac voltage   240 V     Image: A contract of the system   Call of the system     Action of the system   A     Action of the system   Call of the system     Action of the system   Call of the system </td <td>1</td> <td>AC DISCONNECT (RSD SWITCH)</td> <td>1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL</td> <td></td> <td></td>	1	AC DISCONNECT (RSD SWITCH)	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL		
E	AC SYSTEM DISCONNECT S. PLAINFIELD, NJ 07080 PHONE NUMBER:732-902-6224					
Ē	DUAL POWER SUPPLY SECOND SOURCE IS PHOTOVOLTAIC SYSTEM   REVENUE METER	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD	CONSTRUCT FEMALASE	
G	EMERGENCY RESPONDER THIS SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUTDOWN NITE MICTORY OF MARKEN AND MICTORY OF MARKEN MICTORY OF MARKEN M	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING		
	POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE	1	BACKFEED PANEL	INTERCONNECTION POINT AND ONE DIRECTORY PLACARD		SOURPY BREAKER BEELAST IS BACKTO DOINT RELOCATE
θ	NOMINAL OPERATING AC VOLTAGE : 240V NOMINAL OPERATING AC FREQUENCY : 60HZ MAXIMUM AC POWER : VA MAXIMUM AC CURRENT : A MAXIMUM OVERCURRENT DEVICE RATING FOR AC MODULE PROTECTION : 20A	1	AC CURRENT PV MODULES		COULD POWER SUPPLY SOURCE SUPPLY SOURCE SUPPLY VOLUME LEVING SUSSES	(G) BACKFEED





