

**PROFESSIONAL  
ENGINEERING**


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Date: 2023.03.20 06:03:18 -05:00

**SOLAR CONTRACTOR**

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

**CUSTOMER INFORMATION**

Z Z Z > E K / Z  
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**PV SYSTEM INFORMATION**

K X z ^ d D ^ / ~  
D K h > ^ W ,  
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**PROJECT INFORMATION**

INITIAL	DATE:	1 1	DESIGNER:	: d
REV:	DATE:		DESIGNER:	
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**COVER PAGE**
**PV-1**

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h K	> / D d / ' K ' Z	W , /	^ PLANKEY Z / d
h ^ r	> < r ' Z = X æ ~		PV-1 COVER PAGE
t l	r ^ W r h ^ ~ D W ,		PV-1.1 ATTACHMENT DETAIL
	h E K W K ' Z E W q / , K Z & & K		PV-1.2 ATTACHMENT DETAIL
X	' W / > t / E E K '		PV-2 PANEL LAYOUT
t / E æ	K Z E	Z / ^	PV-3 ELECTRICAL
	' / ^ D /	^ / ' E	KPV-3.1 ELECTRICAL CONT.
	> / D d	K E	KPV-3.2 EQUIPMENT LABELS
t / E y W K ^	h Z d	d K Z z	

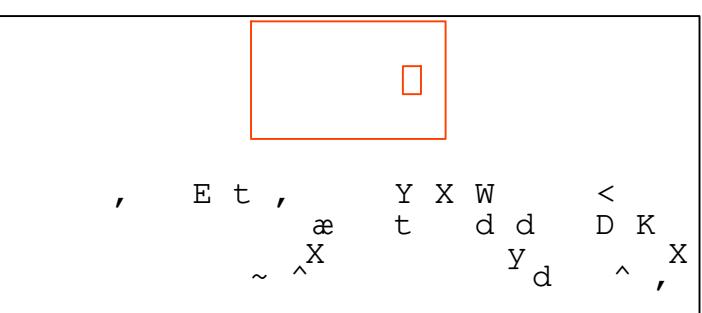
FBC, RESIDENTIAL 2020

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

- a. Linear interpolation is permitted.



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**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

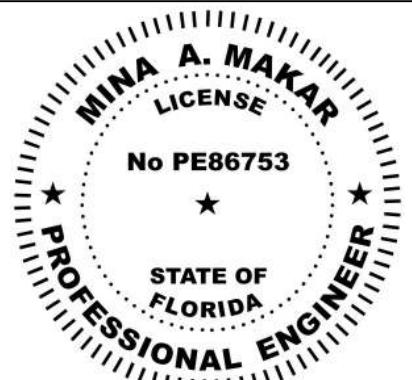
MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED FLORIDA CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.

**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

PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR  
325 HIGH STREET, METUCHEN, NJ 08840  
(732) 902-6224  
MOMENTUMSOLAR.COM

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5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

**CUSTOMER INFORMATION**

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**PV SYSTEM INFORMATION**

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**PROJECT INFORMATION**

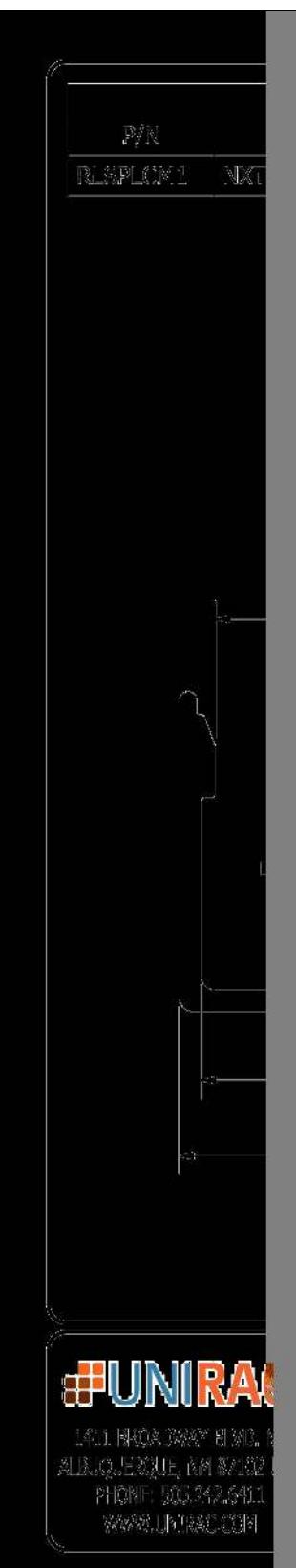
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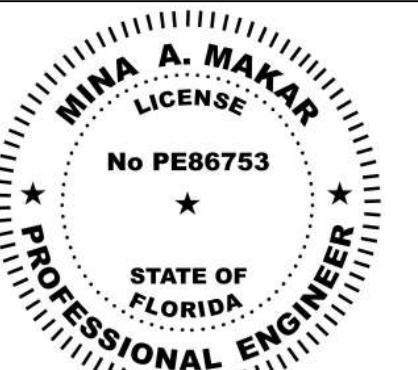
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**ATTACHMENT DETAIL**

**PV-1.1**



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5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

**CUSTOMER INFORMATION**

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E D E E  
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**PV SYSTEM INFORMATION**

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> < r ' =  
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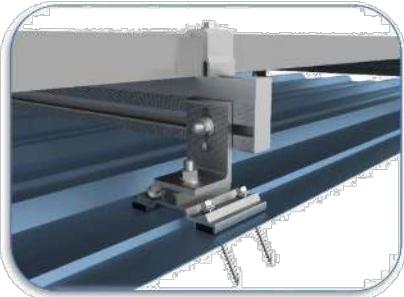
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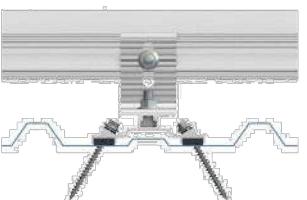
**ATTACHMENT DETAIL**
**PV-1.2**

**EZ GRIP METAL DECK MOUNT**

Make your next metal roof attachment without the daunting task of locating the truss. SunModo's EZ Grip Metal Deck Mount installs into 26 gauge sheet metal, 1/2 plywood or 7/16 OSB roof decking material.

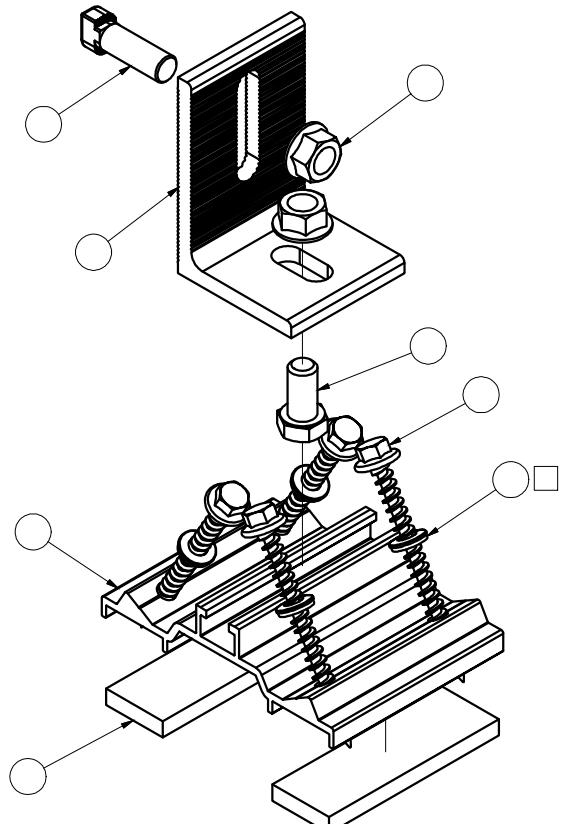


SunModo's EZ Grip Metal Deck Mount installs in just minutes into sheet metal, plywood or OSB roof decking. The four included 1/4 x 3" Hex Washer Head Self-tapping Screws have the length to penetrate though 1-1/2 inches of insulation while still piercing completely through the roof decking. And since the four screws are guided by the aluminum extruded base to penetrate at a 30-degree angle, the Metal Roof Deck Mount Kit offers superior attachment performance. 1/4-20 Self-drilling screws can be used for attachments into 26 gauge minimum thickness metal roofs.


**Features and Benefits**

- Attaches into 1/2 plywood or 7/16 OSB roof decking material using four 1/4 x 3" Hex Washer Head Self-tapping Screws
- Attaches into 26 gauge minimum thickness sheet metal using four 1/4 x 2" Hex Washer Head Self-drilling Screws
- Angled penetrations provide superior attachment performance
- A wide variety of L-feet and attachment options are available
- Passed the High-Velocity Hurricane Zone (HVHZ)-TAS 100(a) Wind-Driven Rain Test

SunModo Corp | Vancouver, WA | 360-844-0048  
Document Number D10153-V003 | ©2019 – SunModo Corp.



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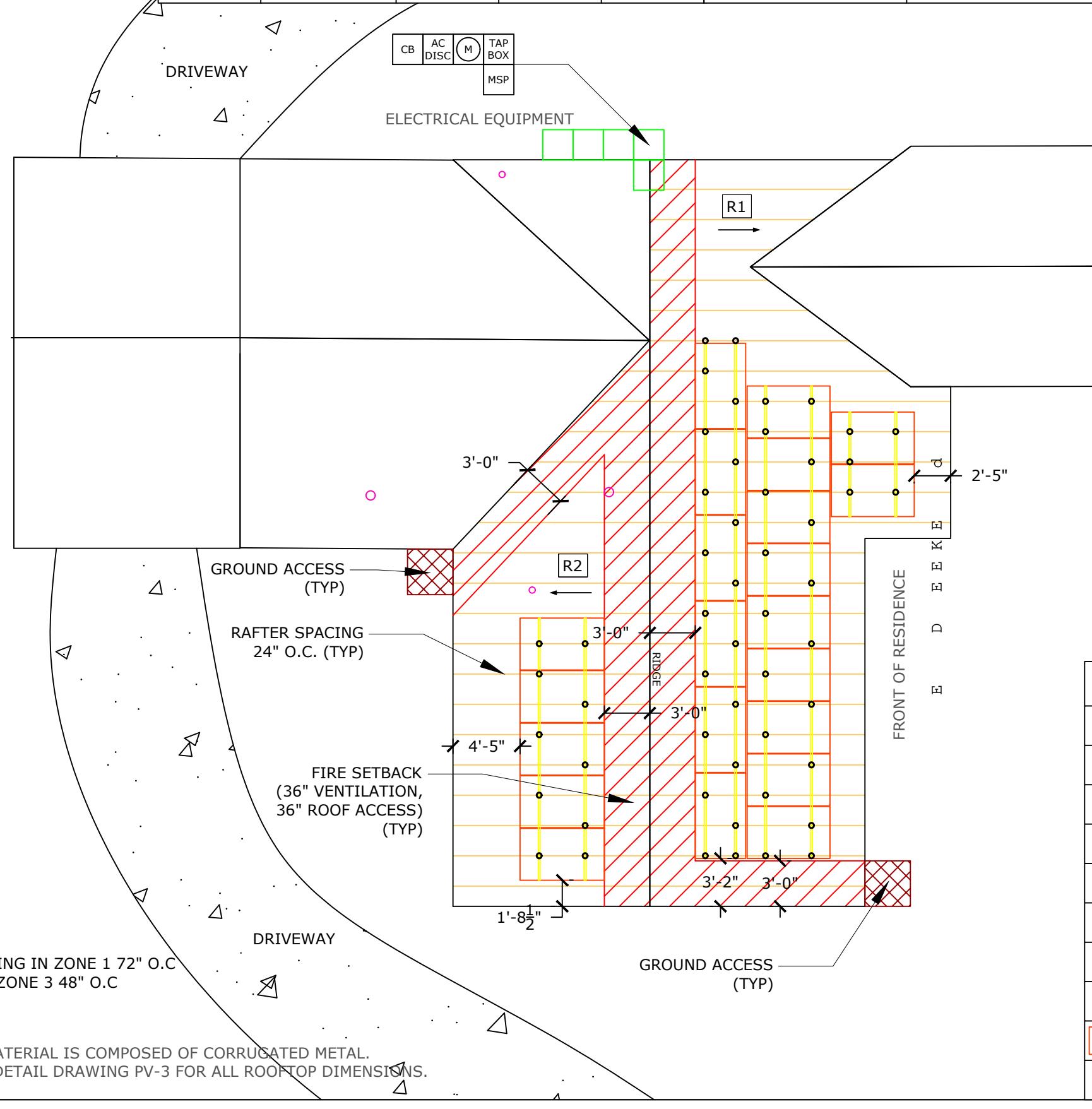
IN 1/2" PLYWOOD		
LOAD DIRECTION	FOS=2	FOS=3
8 3 / , ) 7		
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IN 7/16" OSB		
LOAD DIRECTION	FOS=2	FOS=3
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**SunModo Corp.**
**ATTACHMENT DETAIL FOR CORRUGATED METAL ROOF**

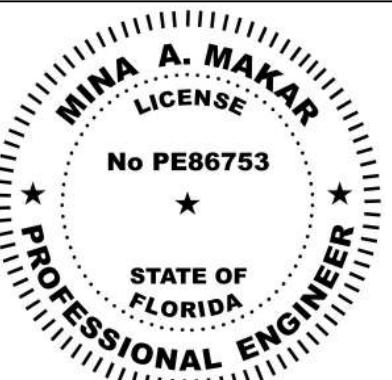
SCALE: 1/8" = 1'-0"



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Z														l	l	l	l	l	l	l	l	1	1	
														l	l	l	l	l	l	l	l	1	1	

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MOMENTUM SOLAR  
5728 MAJOR BLVD. SUITE 307, ORLANDO FL 32819

## CUSTOMER INFORMATION

Z Z z > E K / Z  
E D E E  
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## 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

## PROJECT INFORMATION

INITIAL DATE: 1 1 DESIGNER: : d

REV: DATE: DESIGNER:

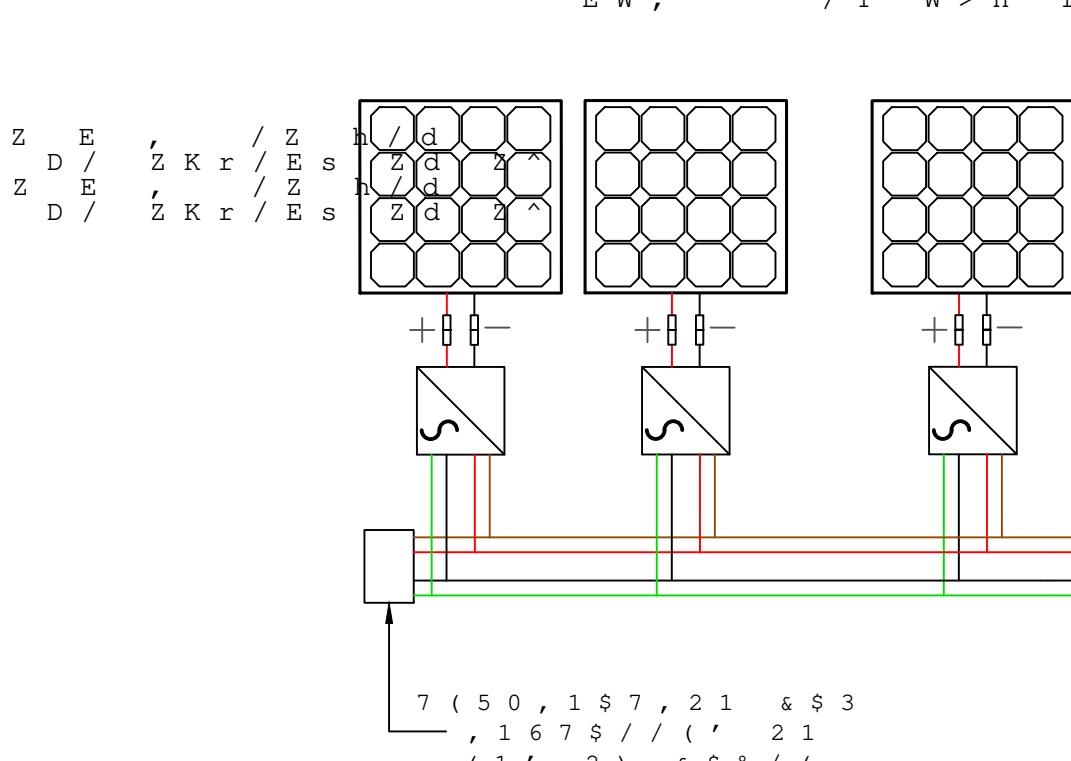
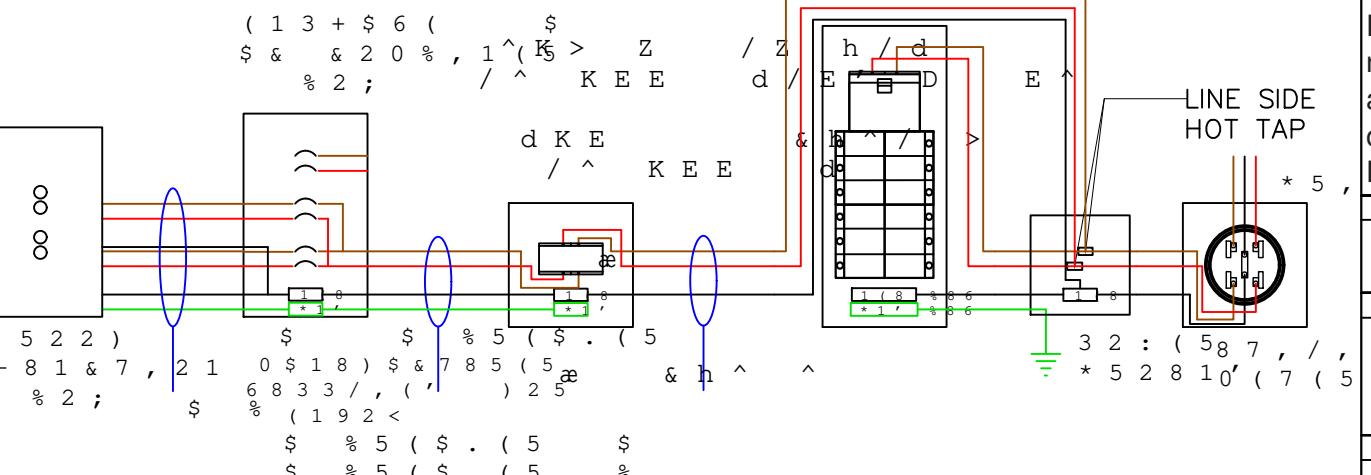
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## ROOF LAYOUT

**PV-2**



W s D K h > z		d / E' ^ / E s Z d Z Z d / E' ^		VOLTAGE DROP CALCULATIONS													
D K h > D <, E t ,		/ E s Z d Z D < E W ,		FORMULA USED PER NEC HANDBOOK 215.2(A)(4) WHERE APPLICABLE													
D K >		Y X W > < r ,		h ^ r WIRE RUN r V <sub>mp</sub> I <sub>mp</sub> R L (FT) V <sub>o</sub> % V <sub>o</sub> WIRE SIZE													
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K W E / Z	h / d s X K >	ds ' K W E s K > d ' s	J-BOX TO LOAD CENTER 240.00 X X æ X X X X 9														
D W W s K > d ' X æ	s E K D / E >	s K > d s	LOAD CENTER TO AC DISCONNECT 240.00 X æ X X X æ æ X 9														
^ , K Z d / Z	h / d X h	Z Z E d Y h Z Z E X d	AC DISCONNECT TO INTERCONNECTION 240.00 X æ X l X X X 9														
D W W h Z Z E d X æ	/ E s Z d Z 1 & & /	E h D Z K & / E s Z d	Z ^														
E h D Z K &	D K h >	E h D Z K & / E s Z d															
h >	K D W > z / ^ E d	h > K D W > / z E ^ d															
SUB PANEL BREAKER SIZE	# OF MODULES	PV BREAKER PER BRANCH	THIS SOLAR PHOTOVOLTAIC SYSTEM COMPLIES WITH THE 2020 FLORIDA BUILDING CODE AND THE 2017 NATIONAL ELECTRICAL CODE														
	UP TO 16	20A															


**SOLAR INSTALLER NOTES:  
INSTALL NEW EXTERIOR TAP BOX**


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
	K W E / Z			td' v	1 1 f o		X 1		X	X	X	æ X		td' v	
1	W s			td, t E	r æ f	æ	X 1	X	X	X	X	æ X	td, t E	td, t E	
				td, t E	r æ f	æ	X 1		X	X	X	æ X			
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1	W s			td, t E	r æ f	æ	X 1		X	X	X	æ X		d, t E	

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

PROJECT INFORMATION		
INITIAL	DATE:	1 1 DESIGNER: : d
REV:	DATE:	DESIGNER:
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**THREE LINE DIAGRAM**  
**PV-3**

**ELECTRICAL NOTES:**

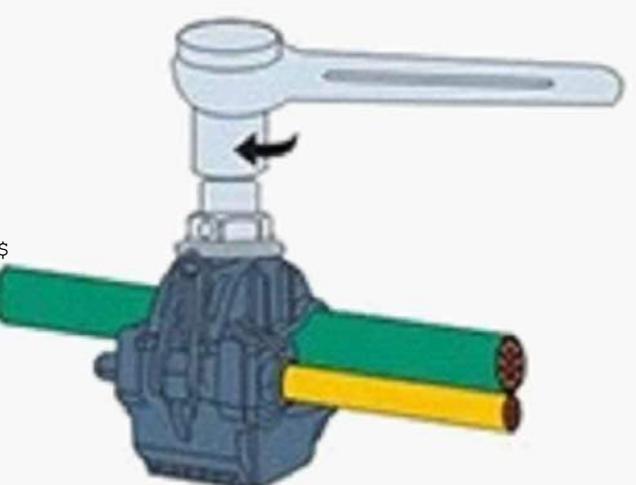
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## 3. THIS SYSTEM COMPLIES WITH NEC 2017

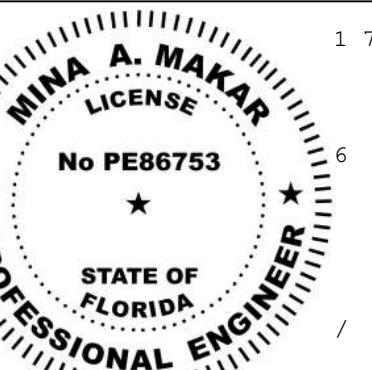
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( 4 8 , 9 \$ / ( 1 7

**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



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**SOLAR CONTRACTOR**

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

**CUSTOMER INFORMATION**

Z Z Z > E K / Z  
E D E E  
> < / d z U

**PV SYSTEM INFORMATION**

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D K h > ^ w ,  
> < r ' =  
/ E s Z d Z ^ w  
/ Y W > h ^ r r r h ^

**PROJECT INFORMATION**

INITIAL	DATE:	1 1	DESIGNER:	: d
REV:	DATE:		DESIGNER:	
REV:	DATE:		DESIGNER:	

**ELECTRICAL CONT.**

**PV-3.1**

